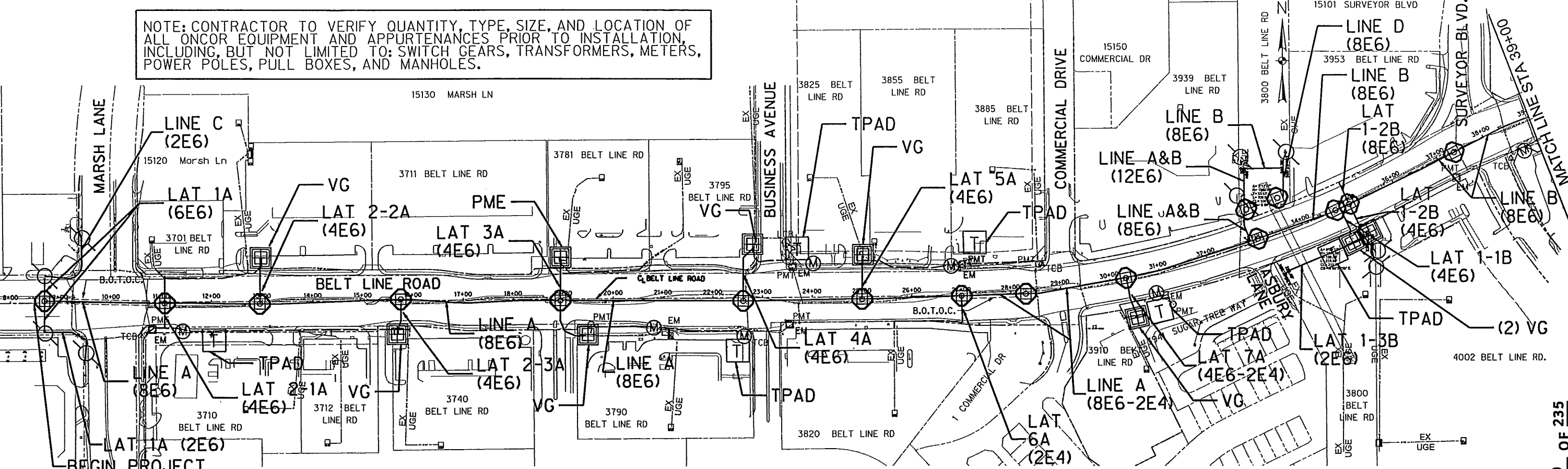


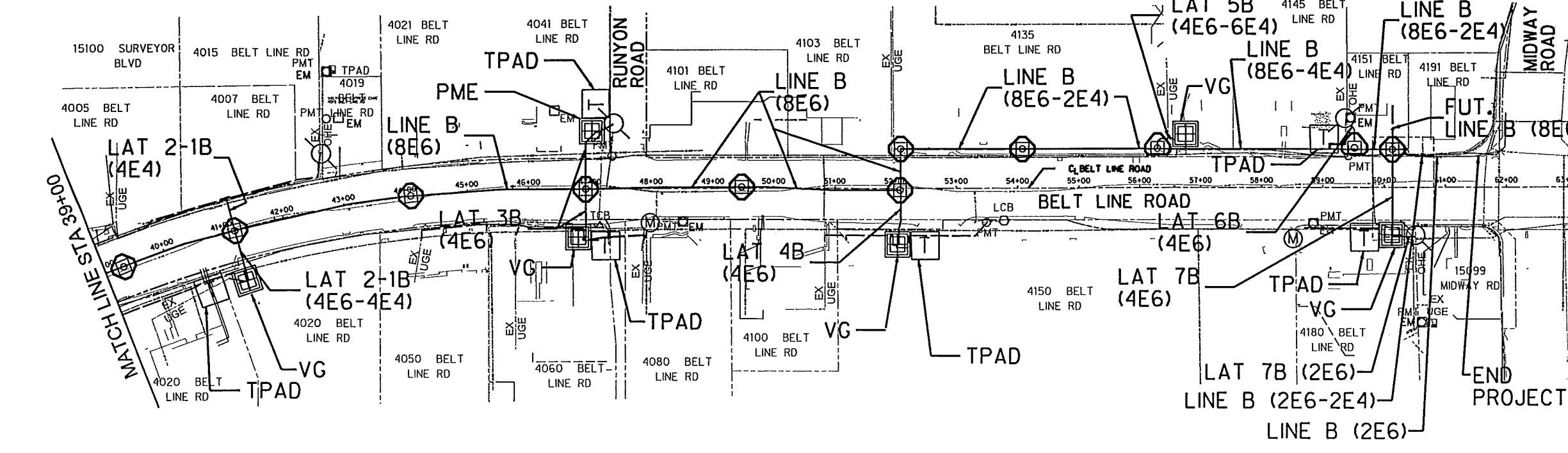
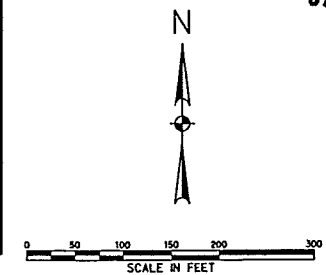
NOTE: CONTRACTOR TO VERIFY QUANTITY, TYPE, SIZE, AND LOCATION OF ALL ONCOR EQUIPMENT AND APPURTENANCES PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO: SWITCH GEARS, TRANSFORMERS, METERS, POWER POLES, PULL BOXES, AND MANHOLES.

USER: ah1299
OFFICE: RCH
PROJECT #: 29350
FILE: 29350 DCTB 01.dgn
DATE: 3/25/2014
TIME: 2:49:04 PM



LEGEND

	PROPOSED VISTA GEAR (VG) OR PME SWITCHGEAR AND PAD (TO BE INSTALLED BY OTHERS)		PMT EXISTING POLE MOUNTED TRANSFORMER
	PROPOSED TRANSFORMER AND PAD (TO BE INSTALLED BY OTHERS)		EM EXISTING ELECTRIC METER
	PROPOSED ELECTRICAL DUCT BANK MANHOLE		TCB EXISTING TRAFFIC SIGNAL CONTROL BOX
	PROPOSED RISER AND POWERPOLE (ONCOR TO INSTALL POWERPOLE)		LCB EXISTING LIGHTING CONTROL BOX
	PROPOSED CABINET FOR ONCOR PROVIDED METER		TPAD EXISTING TRANSFORMER (PAD MOUNTED)
	PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT		EX UGE EXISTING UNDERGROUND ELECTRIC SERVICE
	PROPOSED ELECTRICAL SOURCE DUCT BANK BY OPEN CUT		
	PROPOSED ELECTRICAL LOAD CABLE DUCT BANK		



Chloran P.E. 3-25-14
Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

BELT LINE ROAD
UNDERGROUND ELECTRICAL

ONCOR DUCT BANK KEYMAP

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 DCTB 01	DCB-1

USER: oh1854

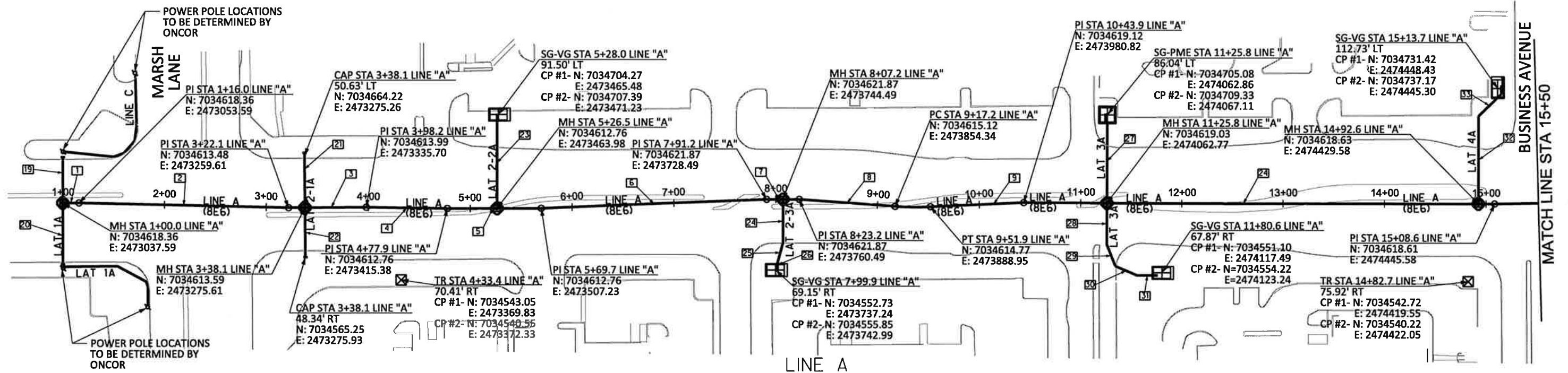
OFFICE: RCH

PROJECT: 29350

FILE: 29350 DCTB_02.dgn

TIME: 2:52:57 PM

DATE: 11/8/2013

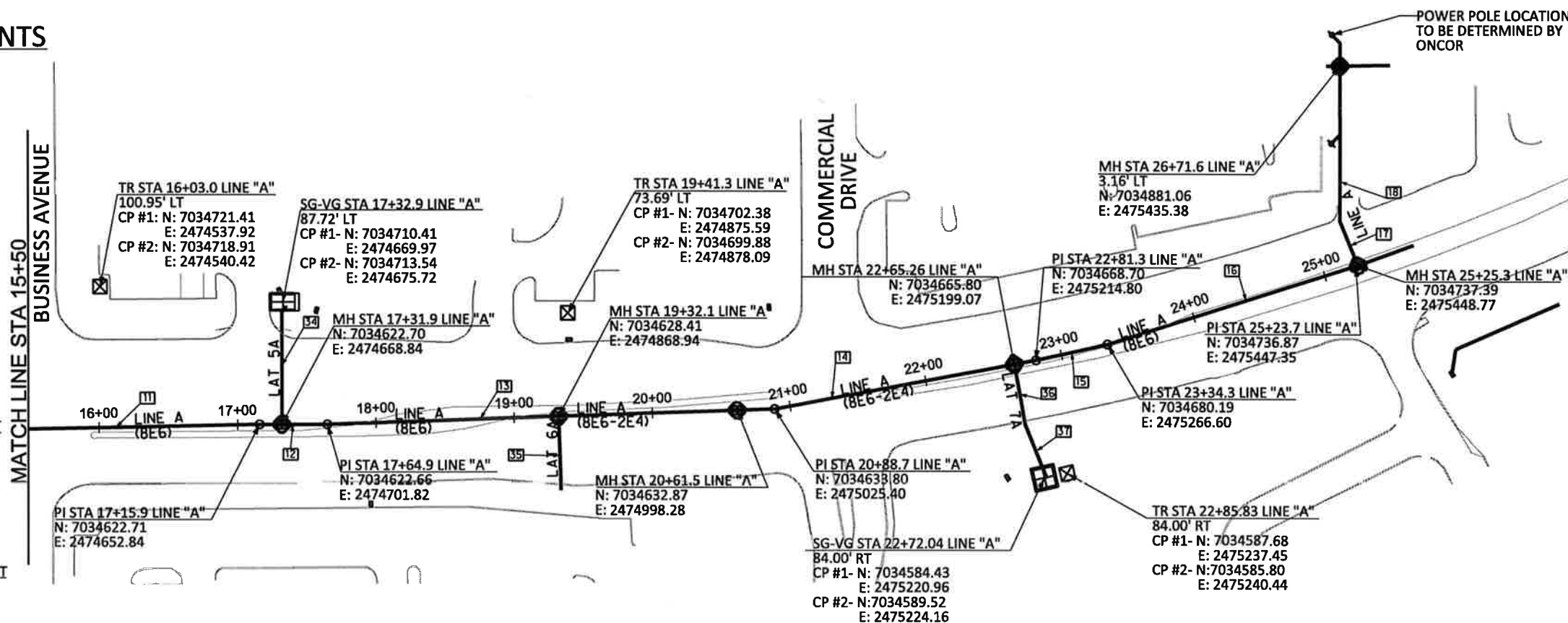
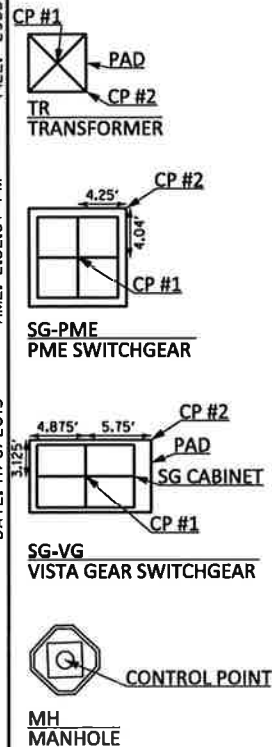


	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
BEARING	N 90°00'00"E	S 88°38'33"E	N 89°36'44"E	S 89°06'49"E	N 90°00'00"E	N 87°38'30"E	N 90°00'00"E	S 85°53'10"E	N 87°17'08"E	S 89°56'14"E	N 88°51'59"E	S 89°56'14"E	N 88°01'40"E	N 79°33'35"E	N 77°29'55"E	N 72°34'01"E	N 22°38'12"W	N 00°08'12"W
DISTANCE	16.00'	206.07'	76.09'	79.69'	48.60'	221.45'	32.00'	94.09'	91.97'	464.75'	207.30'	48.98'	323.79'	192.59'	53.05'	190.94'	34.10'	112.20'

LATERALS

	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
BEARING	S 0°00'06"E	S 0°00'06"E	S 0°23'16"E	S 0°23'16"E	S 0°00'12"E	S 0°00'12"E	S 15°34'44"W	S 0°34'44"W	S 0°03'46"W	S 0°03'46"W	N 22°20'50"W	S 67°09'30"W	S 89°39'38"E	S 0°03'44"W	N 46°04'20"E	S 0°03'46"W	S 1°58'20"E	N 10°26'25"W
DISTANCE	50.46'	63.90'	50.63'	48.34'	88.80'	42.68'	19.49'	5.11'	81.80'	40.36'	22.87'	22.87'	20.72'	85.67'	29.52'	84.59'	56.76'	43.57'

CONTROL POINTS



	37
BEARING	S 252°4'11"E
DISTANCE	42.00'



Charles Moran P.E. 11-8-2013
 Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

BELT LINE ROAD
 UNDERGROUND ELECTRICAL

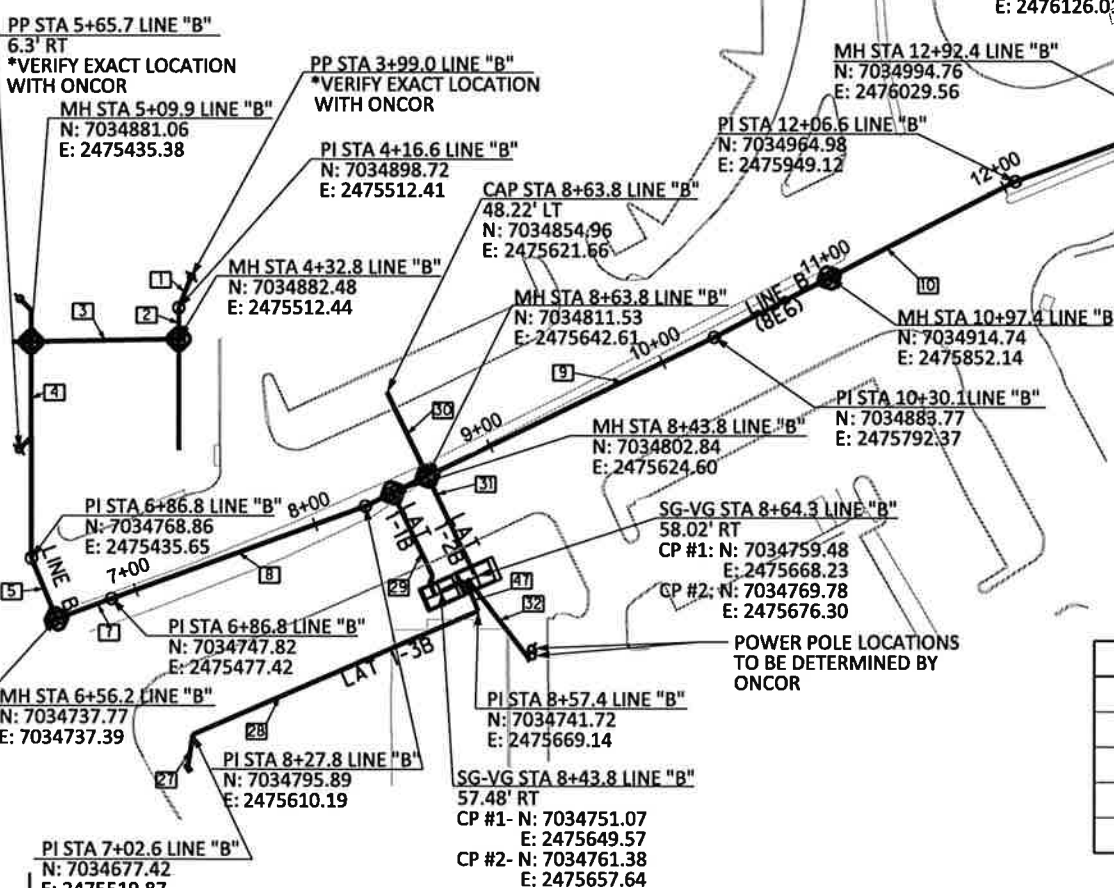
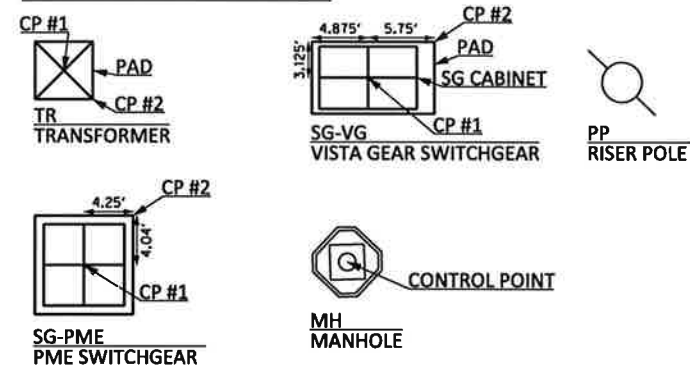
HORIZONTAL CONTROL SHEET
 LINE A & LATERALS

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 348-8200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 DCTB 02	DCB-2

SHEET 71 OF 235

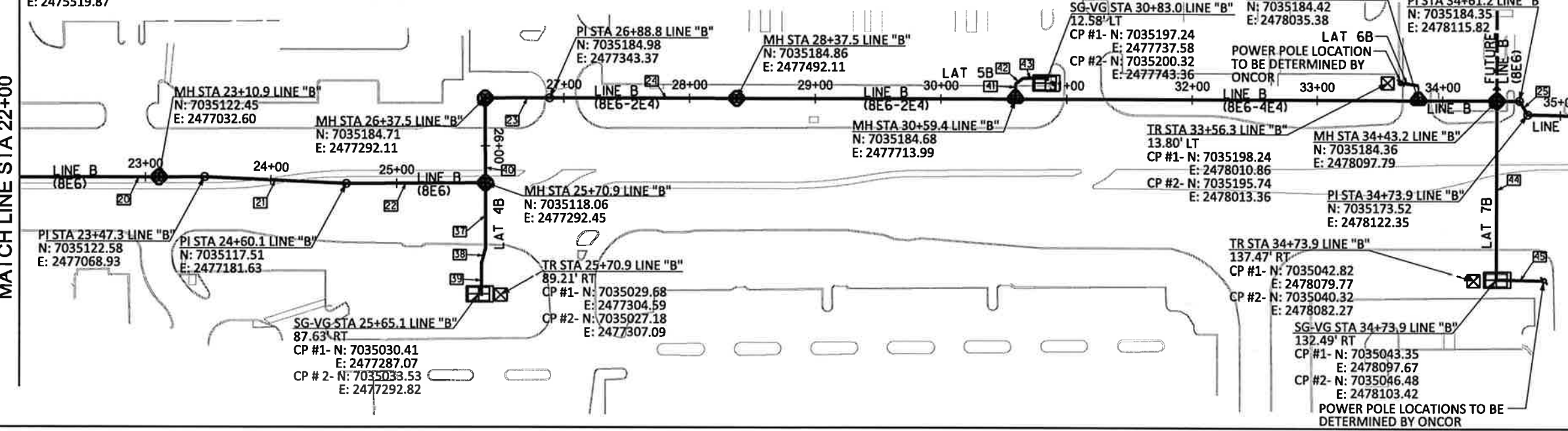
CONTROL POINTS



REFERENCE	1	2	3	4	5	7	8	9	10	11
BEARING	S 22°21'48"W	S 0°8'12"E	S 88°56'30"W	S 0°8'12"E	S 22°38'12"E	N 69°59'35"E	N 70°05'52"E	N 64°14'48"E	N 62°36'52"E	N 69°41'04"E
DISTANCE	17.58'	16.24'	77.08'	112.20'	34.10'	30.49'	141.20'	202.97'	176.54'	188.63'
REFERENCE	12	13	14	15	16	17	18	19	20	21
BEARING	N 75°48'01"E	N 74°29'37"E	N 77°02'42"E	N 82°04'23"E	N 85°42'36"E	N 89°55'27"E	N 89°39'55"E	N 88°42'08"E	N 89°47'46"E	S 87°25'25"E
DISTANCE	70.63'	32.00'	175.98'	82.29'	166.60'	116.41'	32.00'	102.36'	173.73'	112.81'
REFERENCE	22	23	24	25	26					
BEARING	N 89°42'46"E	N 89°42'11"E	N 89°57'12"E	S 31°06'39"E	N 88°34'01"E					
DISTANCE	110.82'	32.00'	770.42'	12.65'	48.36'					

LATERALS

REFERENCE	27	28	29	30	31	32	33	34	35	36	
BEARING	S 9°03'22"W	S 66°41'48"W	S 25°45'12"E	S 25°45'12"E	S 25°45'12"E	S 38°08'02"E	S 15°30'26"E	N 44°39'55"E	S 0°20'05"E	S 0°20'05"E	
DISTANCE	17.32'	166.93'	57.48'	48.22'	55.07'	48.23'	79.48'	24.89'	74.78'	73.85'	
REFERENCE <th>37</th> <th>38</th> <th>39</th> <th>40</th> <th>41</th> <th>42</th> <th>43</th> <th>44</th> <th>45</th> <th>46</th> <th>47</th>	37	38	39	40	41	42	43	44	45	46	47
BEARING	S 0°17'14"E	N 14°42'46"E	S 0°17'14"E	N 0°17'14"W	S 0°11'36"W	S 52°03'55"W	S 90°00'00"W	S 0°02'48"W	S 88°55'40"E	N 15°30'23"W	N 23°18'12"W
DISTANCE	51.06'	13.04'	26.46'	66.65'	11.84'	6.33'	13.71'	141.01'	37.81'	55.41'	17.12'



Ch Moral, P.E. 11-8-2013
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

BELT LINE ROAD UNDERGROUND ELECTRICAL

HORIZONTAL CONTROL SHEET LINE B & LATERALS

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL: (214) 348-6200 FAX: (214) 738-0095

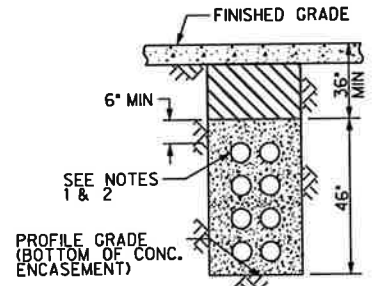
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 DCTB 03	DCB-3

USER: chl1854 OFFICE: RCH PROJECT # 29350 FILE: 29350 DCTB 03.dgn TIME: 3:09:22 PM DATE: 11/8/2013

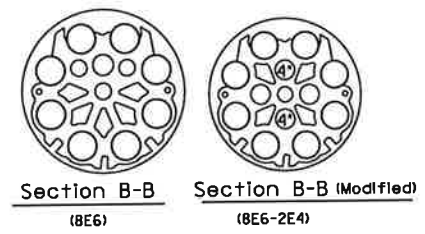
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OFFICE: DAL
PROJECT #: 29350
FILE: 29350 ELEC 00.dgn
DATE: 12/19/2013
TIME: 11:23:54 AM

LEGEND

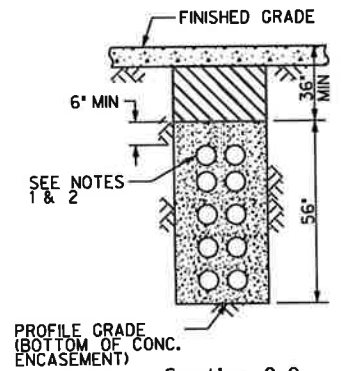
- 2WxH 2-6" SPACERS WIDE BY # OF 6" SPACERS HIGH FOR TRENCH SECTIONS
- *E6 NUMBER OF 6" ELECTRICAL CONDUITS
- *E4 NUMBER OF 4" ELECTRICAL CONDUITS
- *E2 NUMBER OF 2" ELECTRICAL CONDUITS



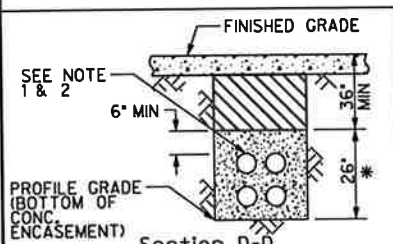
Section A-A
Trench Embedment Detail (2Wx4H)
(Refer to Oncor Details and Specs)
N.T.S.
4E6-2E4-2E2
8E6



Section B-B (8E6)
Section B-B (Modified) (8E6-2E4)



Section C-C
Trench Embedment Detail (2Wx5H)
(Refer to Oncor Details and Specs)
N.T.S.
8E6-2E4
4E6-6E4

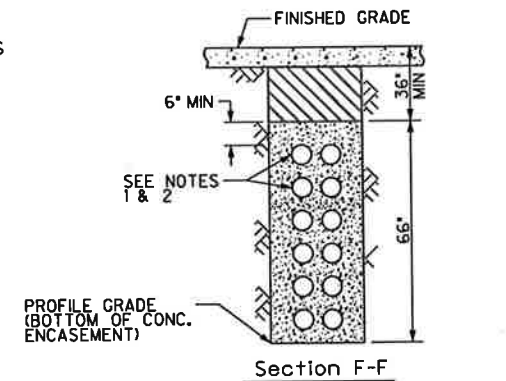


Section D-D
Trench Embedment Detail (2Wx2H)
(Refer to Oncor Details and Specs)
N.T.S.
*4E6
*2E4-2E2
*2E6-2E4
4E4

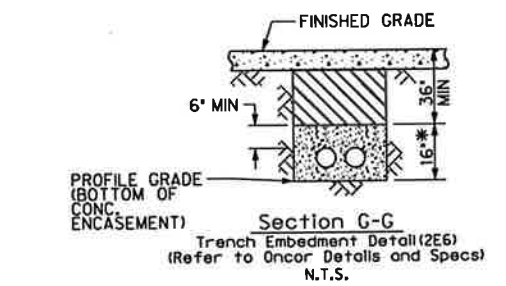


Section D-D (Alternative)
Encasement Pipe Detail (4E6)
(See Note 3)
N.T.S.

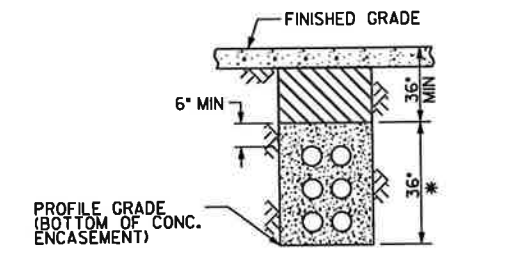
- 1 USE REDUCER TO INSTALL 4" PVC CONDUIT INSIDE 6" SPACER - WHERE E4 IS SPECIFIED FOR DUCT. QUANTITY AS SPECIFIED ON PLANS.
- 2 USE REDUCER TO INSTALL 2" PVC CONDUIT INSIDE 6" SPACER - WHERE E2 IS SPECIFIED FOR DUCT. QUANTITY AS SPECIFIED ON PLANS.
- 3 STEEL ENCASEMENT PIPE SIZES SHOWN ARE APPROXIMATE AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.
- 4 SEE SHEET DT-P3 FOR PAVEMENT REPAIR AND TRENCH BACK-FILL REQUIREMENTS.
- 5 MINIMUM DEPTH TO TOP OF CONCRETE ENCASED DUCT BANK OR STEEL ENCASED PIPE SHALL BE 36" FOR THIS PROJECT. THIS REQUIREMENT SHALL SUPERSEDE THIS 30" MIN. DIMENSION NOTED ON DCS-5 SHEET 11 OF 19.
- 6 SPACERS SHALL PROVIDE 3" MINIMUM OF VERTICAL AND HORIZONTAL SEPARATION BETWEEN CONDUITS. ONCOR TO APPROVE ALL ELECTRICAL SPACERS PRIOR TO INSTALLATION.



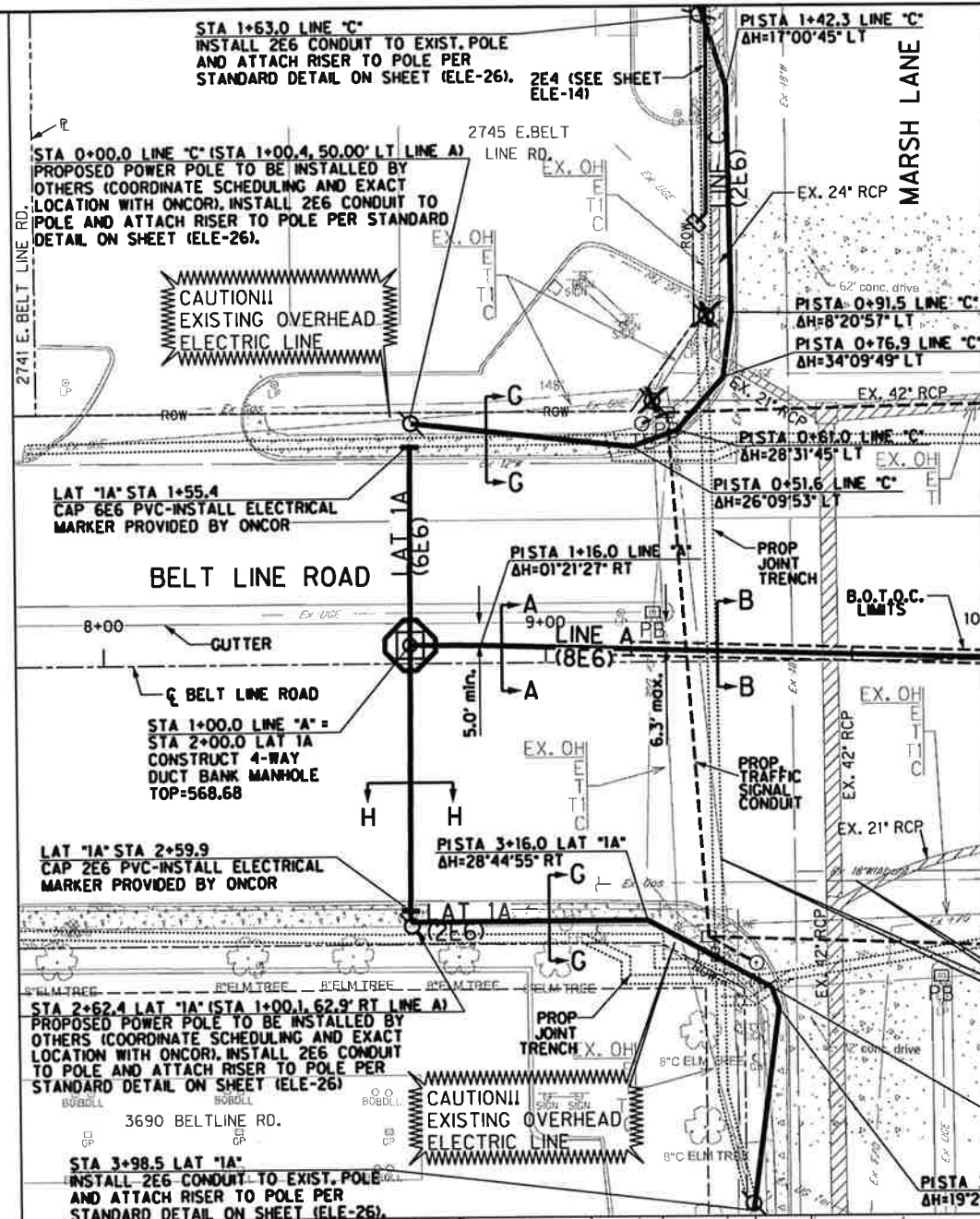
Section F-F
Trench Embedment Detail (2Wx6H)
(Refer to Oncor Details and Specs)
12E6
8E6-4E4



Section G-G
Trench Embedment Detail (2E6)
(Refer to Oncor Details and Specs)
N.T.S.
2E2
2E4
2E6*



Section H-H
Trench Embedment Detail (2Wx3H)
(Refer to Oncor Details and Specs)
N.T.S.
6E4
6E6*
4E6-2E4*

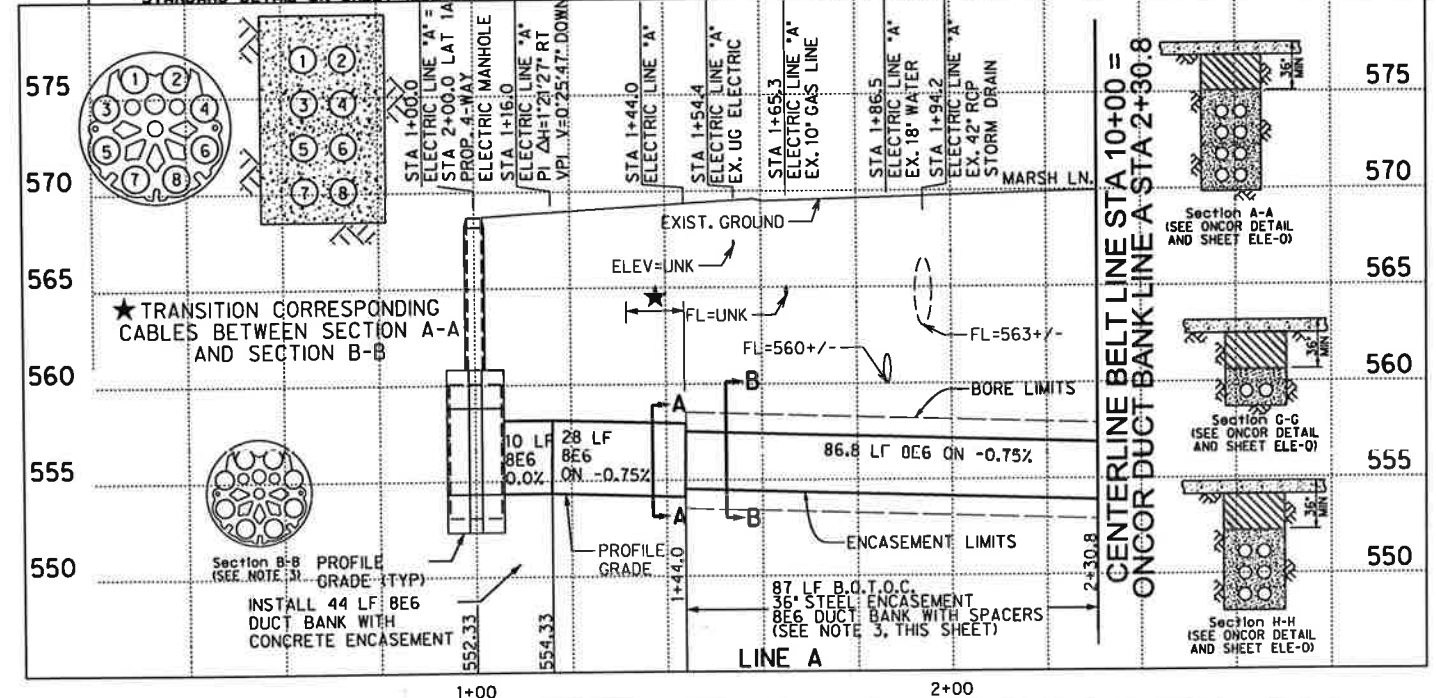


EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT. DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

LEGEND

- EXISTING POWER POLES TO BE REMOVED BY OTHERS (COORDINATE SCHEDULING AND EXACT LOCATION WITH ONCOR)
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
- PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
- PROPOSED TRANSFORMER PAD
- PROPOSED VISTA GEAR PAD
- PROPOSED PME PAD
- PROPOSED ELECTRICAL DUCT BANK MANHOLE
- PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
- PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
- PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
- PROPOSED CABINET FOR ONCOR PROVIDED METER

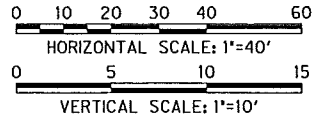
- NOTE:**
1. ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED.
 2. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
 3. STEEL ENCASEMENT PIPE SIZES SHOWN ARE APPROXIMATE AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.
 4. ALL ELECTRIC LOAD CABLES TO BE INSTALLED IN JOINT TRENCH WITH RELOCATED FRANCHISE UTILITIES, EXCEPT AS NECESSARY TO CONNECT TO ELECTRICAL EQUIPMENT OR AS NOTED ON THE PLANS. FOR JOINT TRENCH SEE TELECOM RELOCATION PLAN SHEETS.



Ch Moran P.E. 12-19-2013
Signature of Registrant Date
FIRM REGISTRATION NUMBER: 312

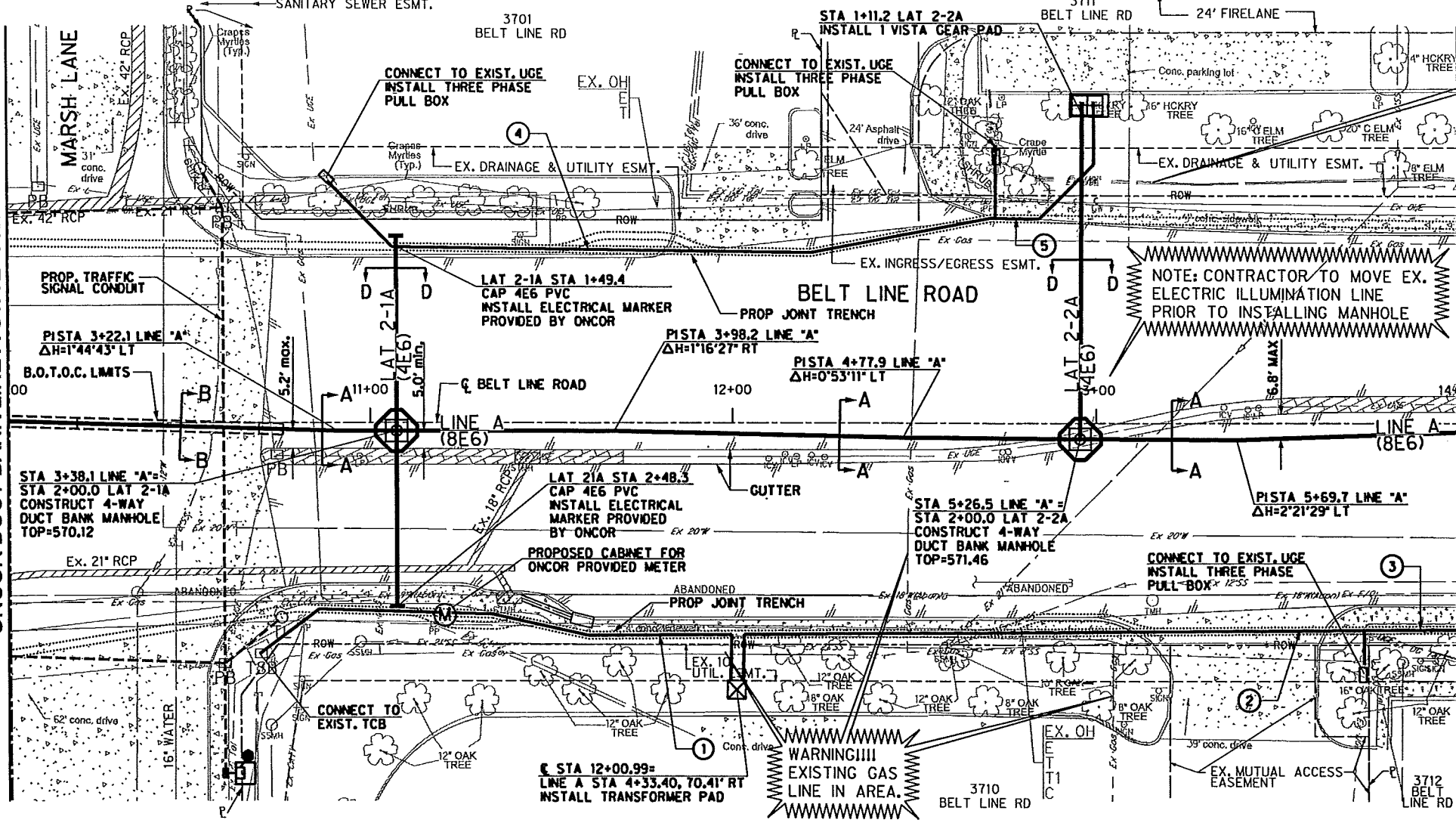
NO.	REVISION	BY	DATE
TOWN OF ADDISON DALLAS COUNTY, TEXAS BELT LINE ROAD UNDERGROUND ELECTRICAL ONCOR DUCT BANK PLAN AND PROFILE BELT LINE RD BEGIN TO STA 10+00 HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 348-8200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
29350	HALFF	HALFF	NOV, 2013
FILE	SHEET		
29350 ELEC 00	ELE-0		

USER: ah1854
 PROJECT: 29350 OFFICE: RCH
 FILE: 29350 ELEC 01.dgn
 TIME: 1:58:13 PM
 DATE: 11/8/2013



CENTERLINE BELT LINE ROAD STA 10+00 =
 ONCOR DUCT BANK LINE A STA 2+30.8

CENTERLINE BELT LINE STA 14+00 =
 ONCOR DUCT BANK LINE A STA 6+30.8



CAUTION!!
 EXISTING OVERHEAD
 ELECTRIC LINE

EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
 - SIZE
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

NO.	L	TYPE
1	133'	2E2
2	173'	2E4
3	26'	4E4
4	190'	2E4
5	50'	4E4

- NOTE:**
- ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED.
 - ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
 - STEEL ENCASUREMENT PIPE SIZES SHOWN ARE APPROXIMATE AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.
 - ALL ELECTRIC LOAD CABLES TO BE INSTALLED IN JOINT TRENCH WITH RELOCATED FRANCHISE UTILITIES, EXCEPT AS NECESSARY TO CONNECT TO ELECTRICAL EQUIPMENT OR AS NOTED ON THE PLANS. FOR JOINT TRENCH SEE TELECOM RELOCATION PLAN SHEETS.



Charles Barthell Morin P.E. 11-8-2013
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

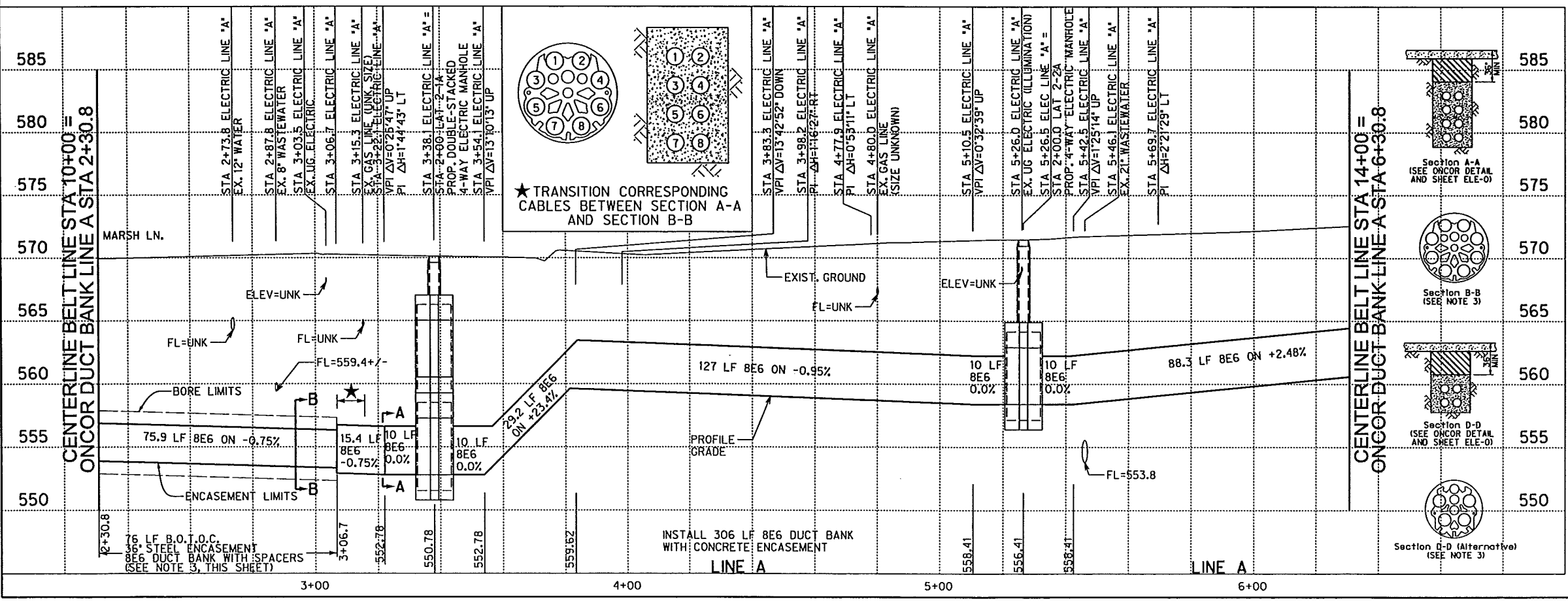
NO.	REVISION	BY	DATE

TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

BELT LINE ROAD
 UNDERGROUND ELECTRICAL

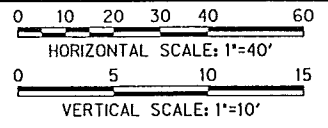
ONCOR DUCT BANK PLAN AND PROFILE
 BELT LINE RD STA 10+00 TO STA 14+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 01	ELE-1



SHEET 74 OF 235

DATE: 3/25/2014 TIME: 2:49:13 PM FILE: 29350 ELEC 02.dgn PROJECT * 29350 OFFICE: RCH USER: ohi299



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
 - SIZE
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER

- NOTE:**
1. ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
 2. CONTRACTOR SHALL END AND CAP ALL CONDUIT TERMINATING AT SWITCHGEAR OR TRANSFORMER PADS 12 INCHES ABOVE FINISHED GRADE AND COORDINATE FINAL CONDUIT LOCATIONS WITH ONCOR.
 3. STEEL ENCASUREMENT PIPE SIZES SHOWN ARE APPROX. AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.
 4. ALL ELECTRIC LOAD CABLES TO BE INSTALLED IN JOINT TRENCH WITH RELOCATED FRANCHISE UTILITIES, EXCEPT AS NECESSARY TO CONNECT TO ELECTRICAL EQUIPMENT OR AS NOTED ON THE PLANS. FOR JOINT TRENCH SEE TELECOM RELOCATION PLAN SHEETS.

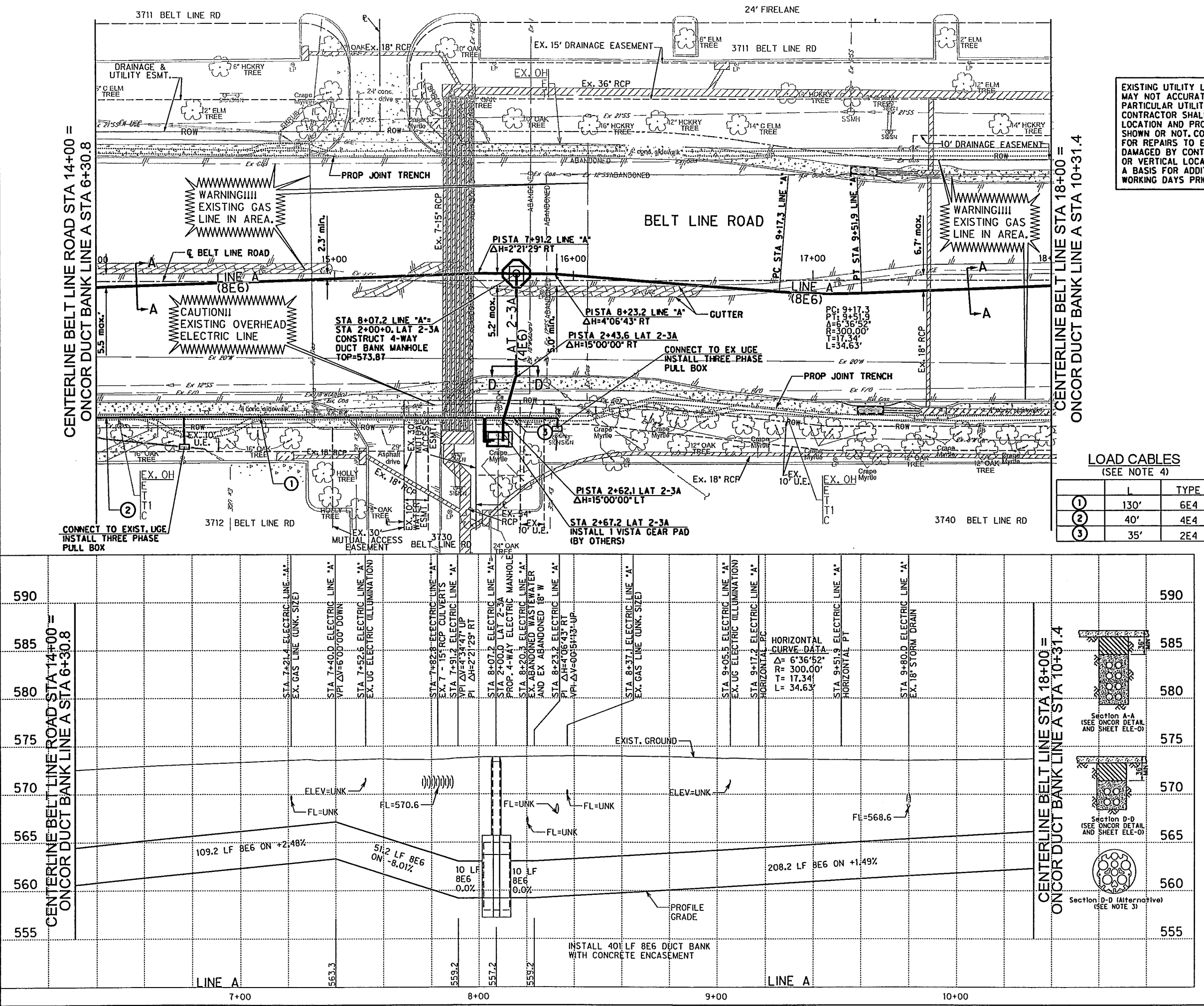


Charles Barthell Worick
 Signature of Registrant Date P.E. 3-25-14
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

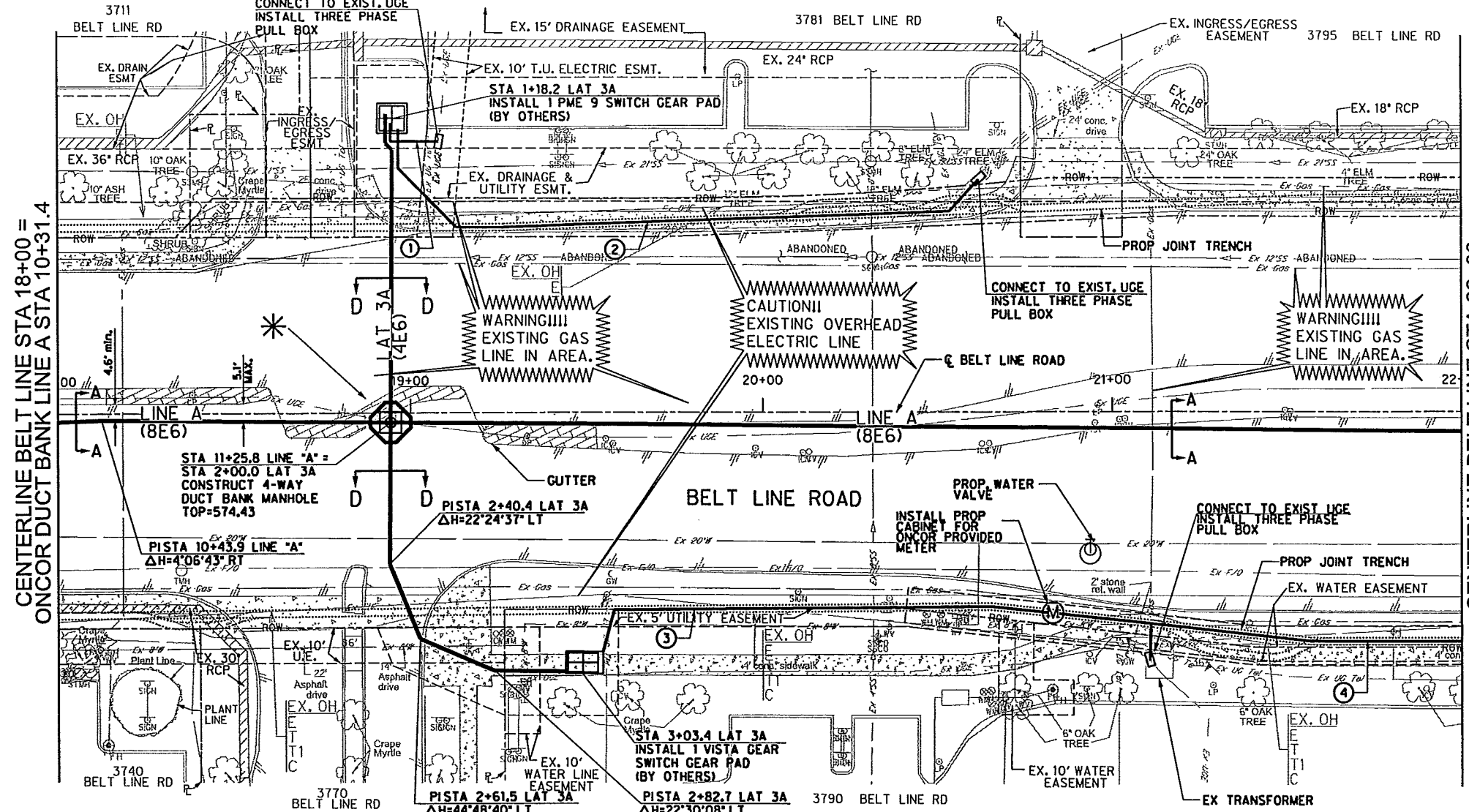
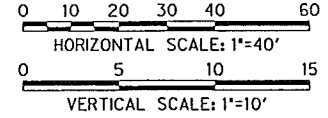
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 02	ELE-2



LOAD CABLES
(SEE NOTE 4)

NO.	L	TYPE
1	130'	6E4
2	40'	4E4
3	35'	2E4

USER: oh1299
 PROJECT # 29350 OFFICE: RCH
 FILE: 29350 ELEC 03.dgn
 TIME: 2:49:15 PM
 DATE: 3/25/2014



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT. DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
 - SIZE
 - PROPOSED JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

NO.	L	TYPE
1	20'	2E4
2	185'	2E4
3	158'	4E4
4	90'	2E4

- NOTE:**
- ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL END AND CAP ALL CONDUIT TERMINATING AT SWITCHGEAR OR TRANSFORMER PADS 12 INCHES ABOVE FINISHED GRADE AND COORDINATE FINAL CONDUIT LOCATIONS WITH ONCOR.
 - STEEL ENCASMENT PIPE SIZES SHOWN ARE APPROX. AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.
 - ALL ELECTRIC LOAD CABLES TO BE INSTALLED IN JOINT TRENCH WITH RELOCATED FRANCHISE UTILITIES, EXCEPT AS NECESSARY TO CONNECT TO ELECTRICAL EQUIPMENT OR AS NOTED ON THE PLANS. FOR JOINT TRENCH SEE TELECOM RELOCATION PLAN SHEETS.



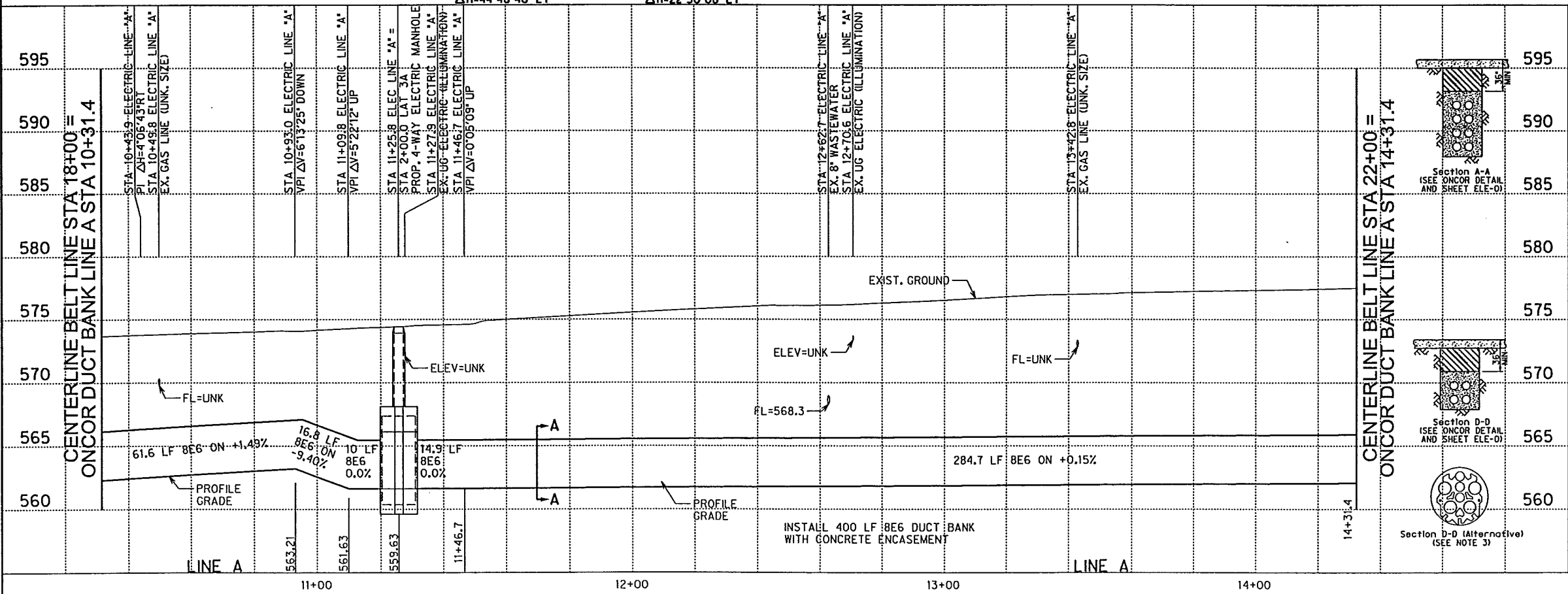
Ch Moran, P.E. 3-25-14
 Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

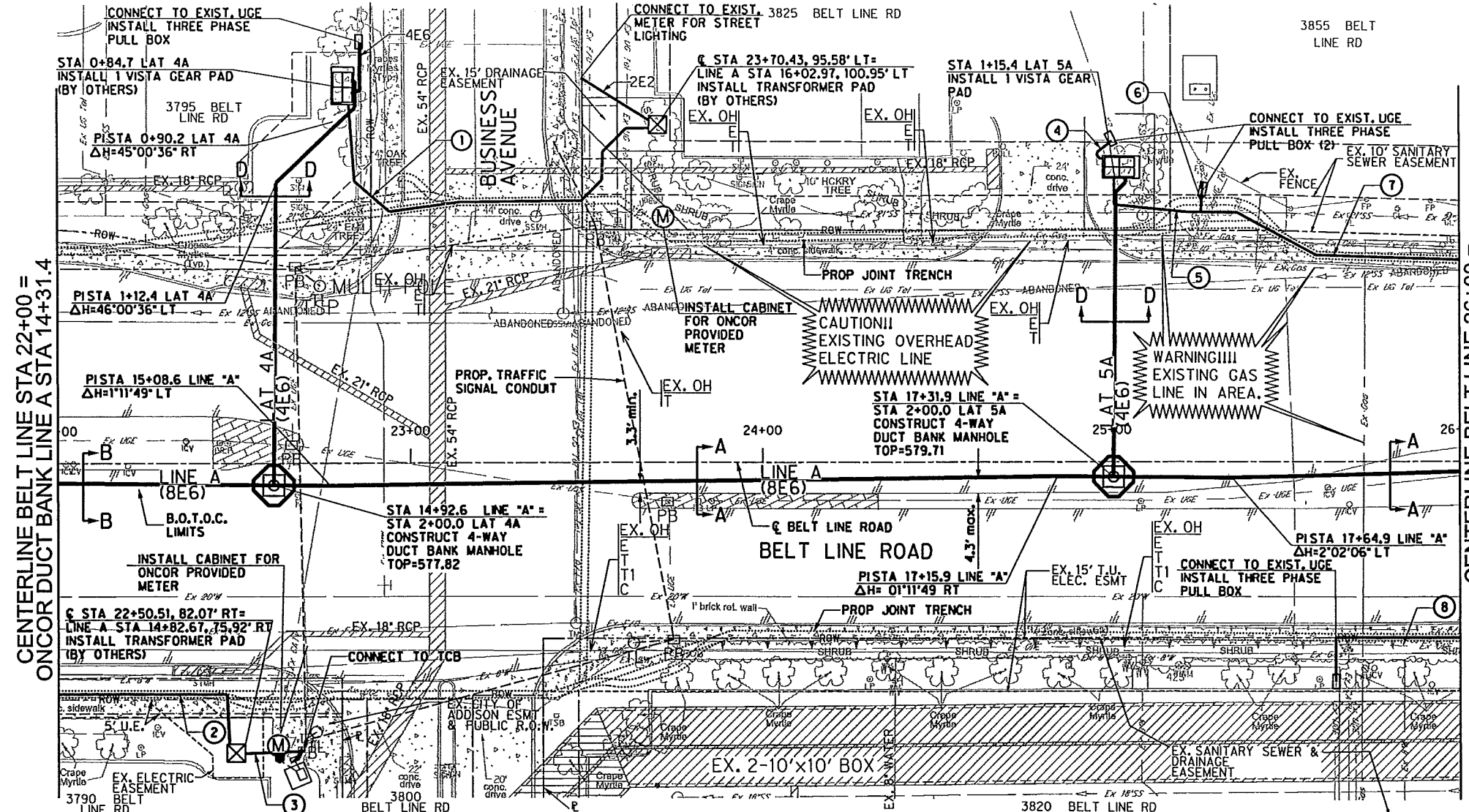
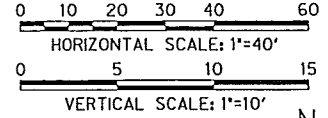
NO.	REVISION	BY	DATE

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 03	ELE-3



USER: gh1299
 PROJECT # 29350 OFFICE: RCH
 DATE: 3/25/2014 TIME: 2:49:19 PM FILE: 29350_ELEC_04.dgn



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

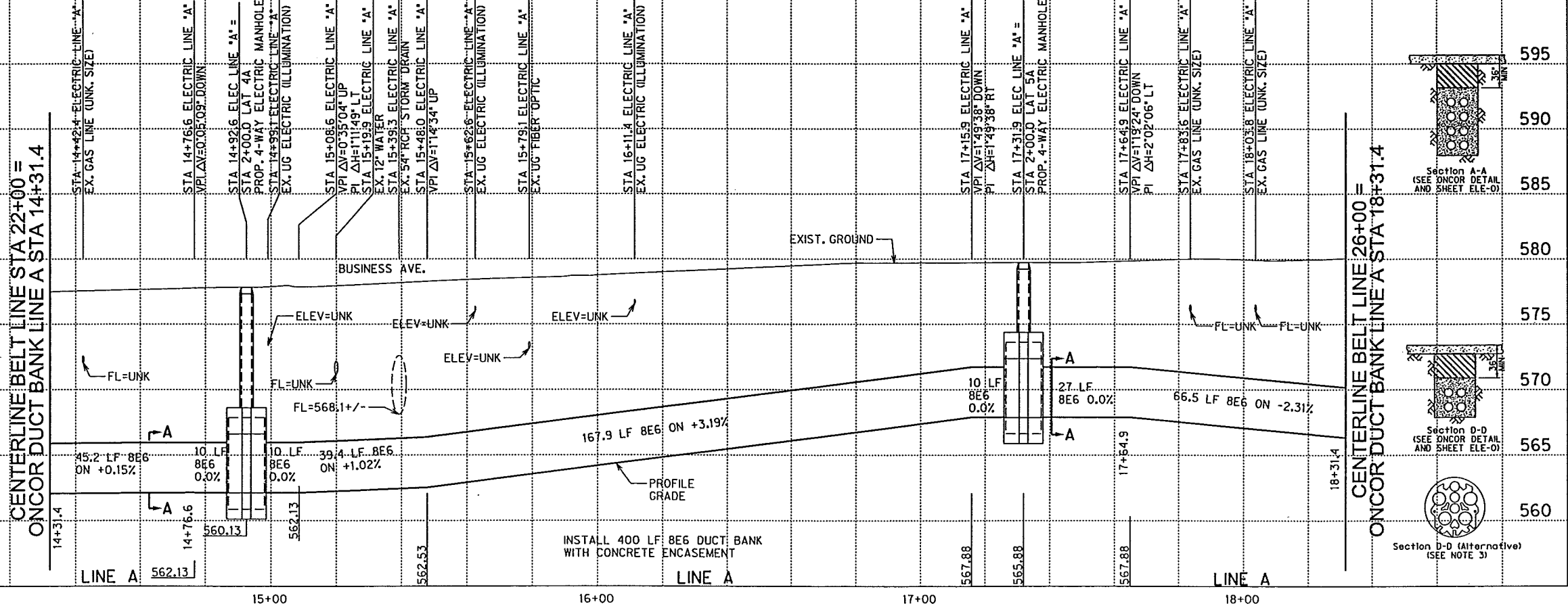
- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

	L	TYPE
1	140'	2E4
2	58'	2E4
3	17'	2E2
4	20'	2E4
5	35'	6E4
6	6'	2E4
7	76'	4E4
8	36'	2E4

NOTE:

- ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
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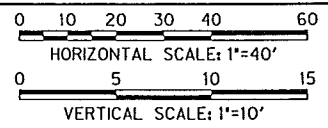


Ch Moran P.E. 3-25-14
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR, 2014	29350 ELEC 04	ELE-4



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

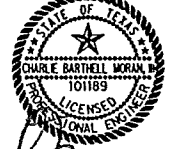
- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - (M) PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

	L	TYPE
①	108'	4E4
②	20'	2E4
③	150'	2E4
④	105'	2E4

CONTRACTOR TO MOVE EXISTING ELECTRICAL ILLUMINATION LINE PRIOR TO INSTALLATION OF MANHOLE

- NOTE:**
- ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
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Almon P.E. 3-25-14
Signature of Registrant Date

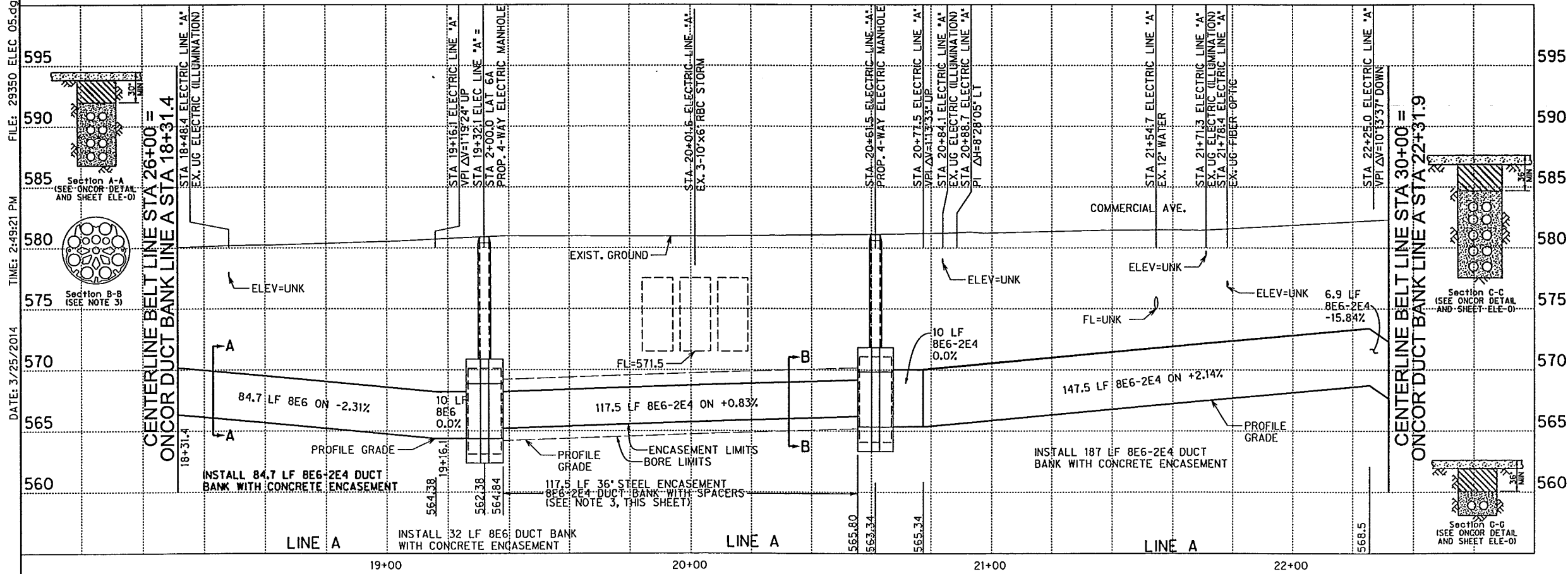
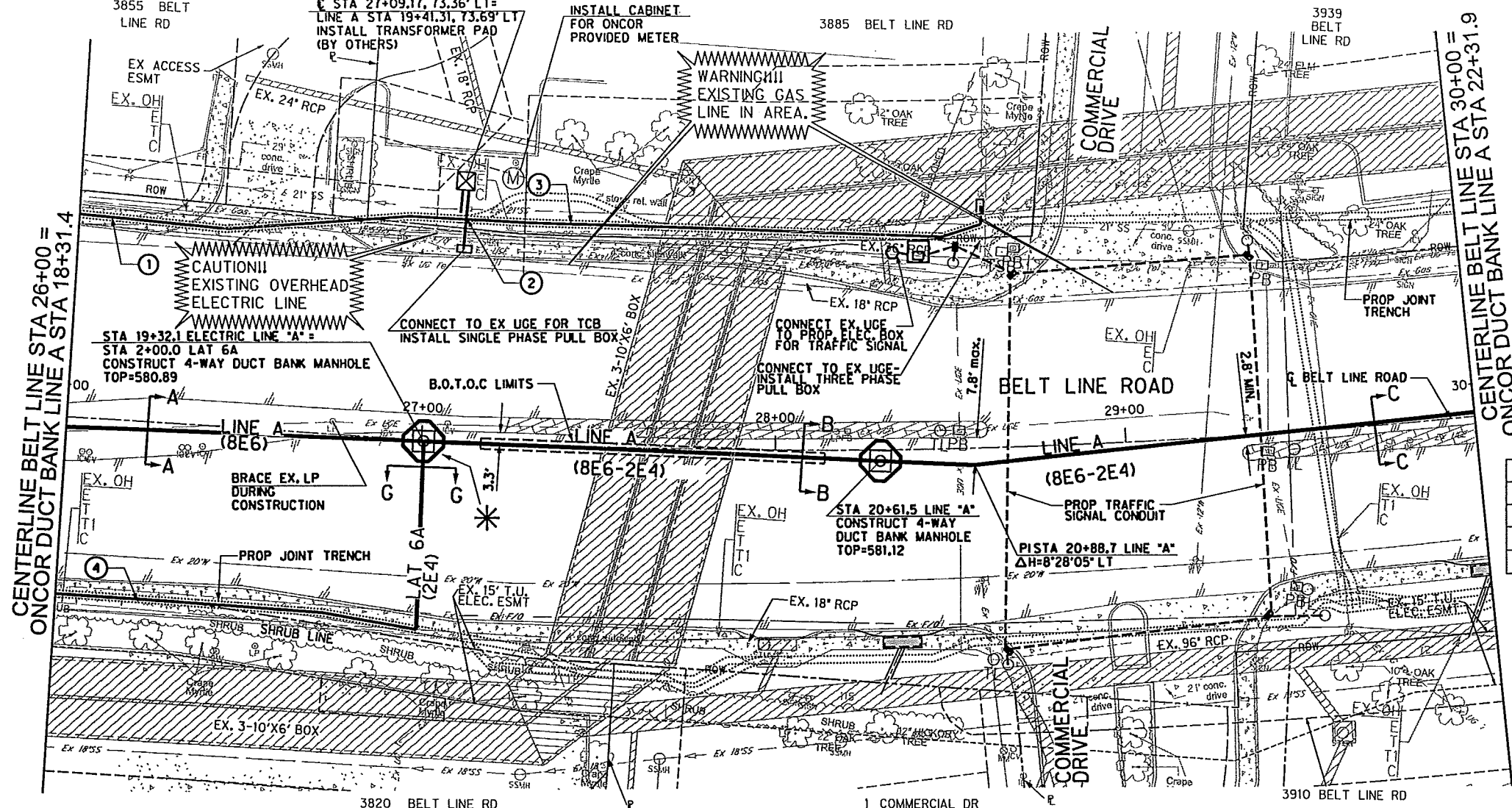
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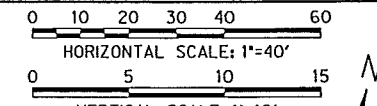
NO.	REVISION	BY	DATE

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 05	ELE-5

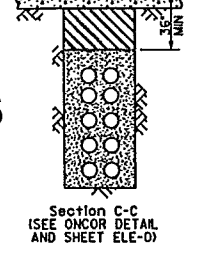
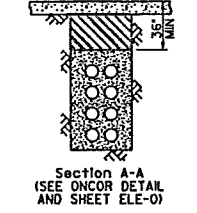
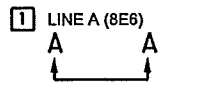
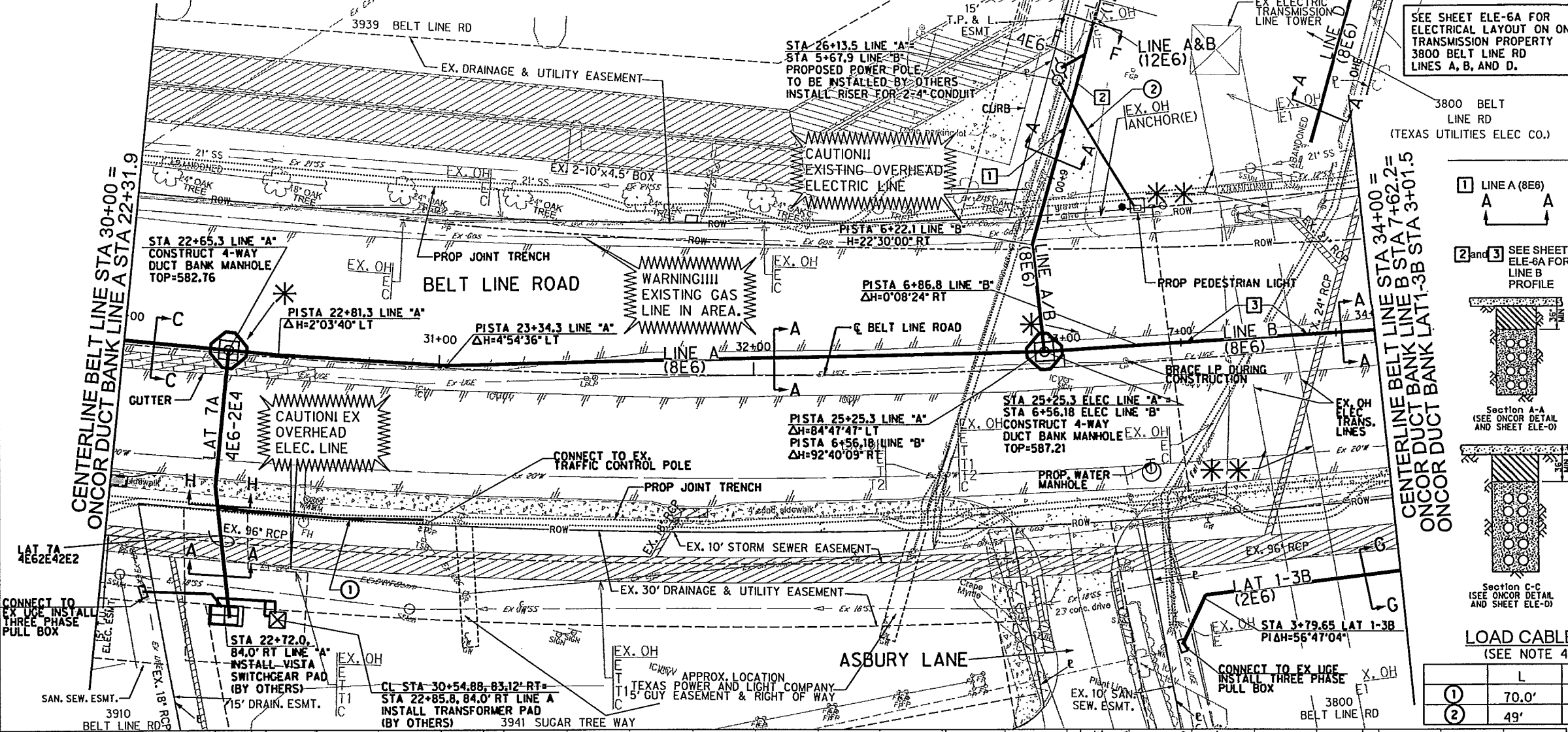
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 DATE: 3/25/2014





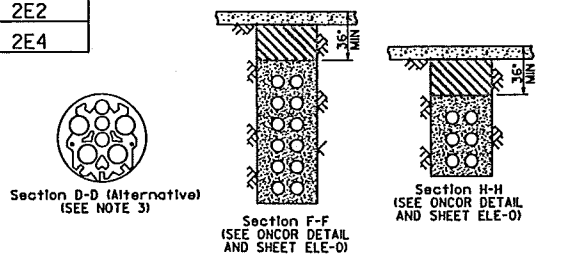
- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
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 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER
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SEE SHEET ELE-6A FOR ELECTRICAL LAYOUT ON ONCOR TRANSMISSION PROPERTY 3800 BELT LINE RD LINES A, B, AND D.

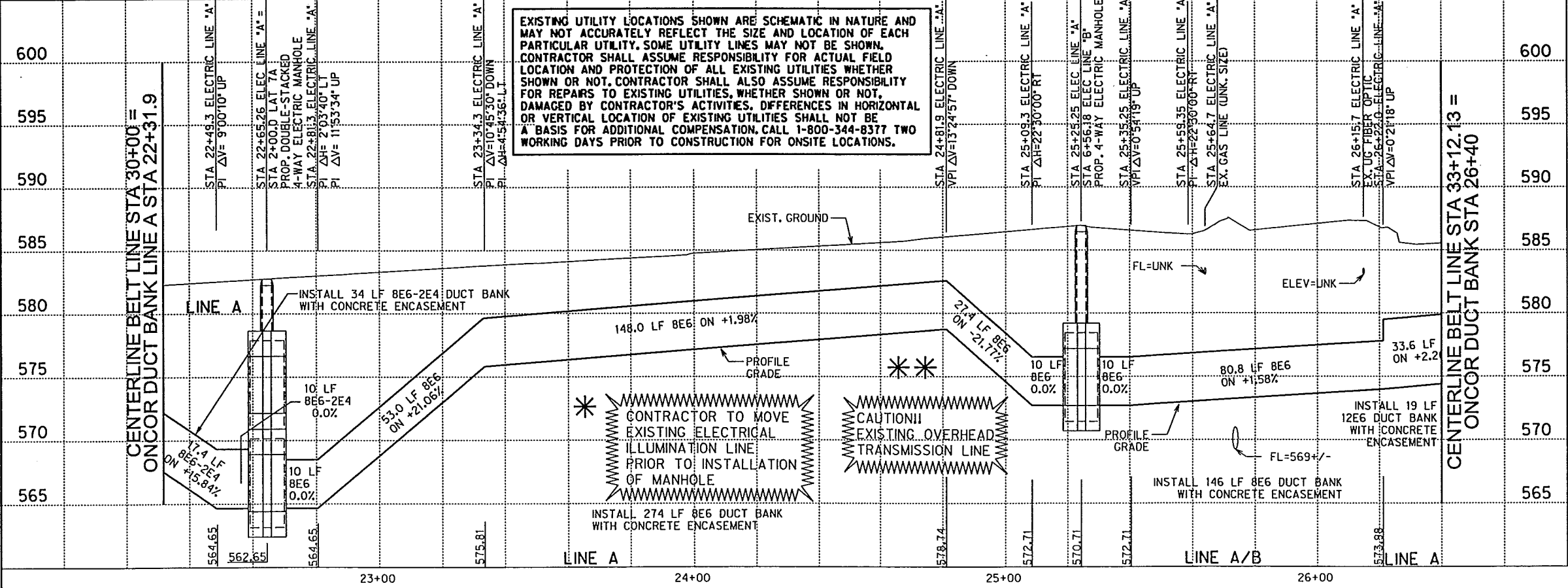


LOAD CABLES
(SEE NOTE 4)

	L	TYPE
①	70.0'	2E2
②	49'	2E4



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.



Alphon P.E. 3-25-14
Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

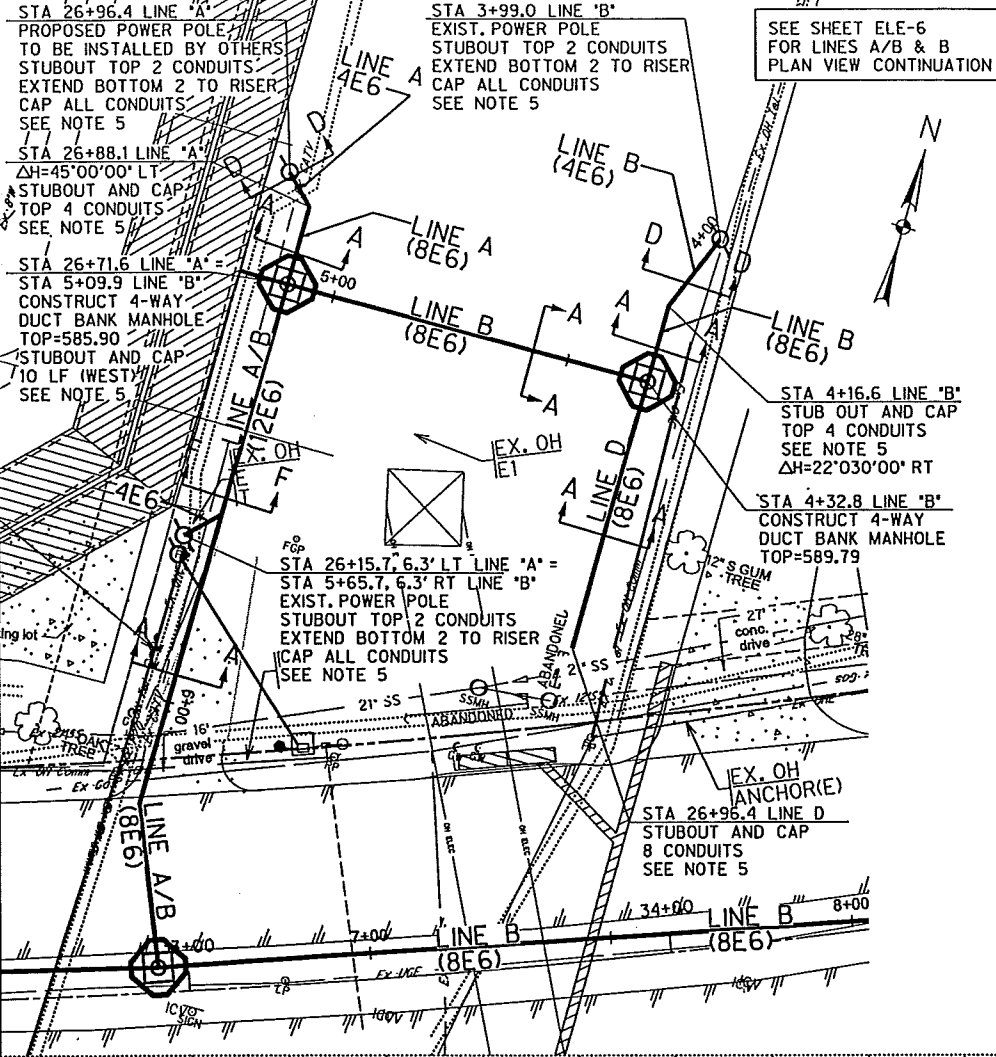
BELT LINE ROAD UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE BELT LINE RD STA 30+00 TO STA 34+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 06	ELE-6

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

USER: oh1299
 OFFICE: RCH
 PROJECT: 29350
 FILE: 29350 ELEC 06a.dgn
 TIME: 2:49:28 PM
 DATE: 3/25/2014

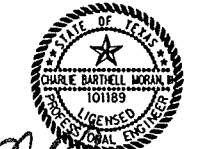
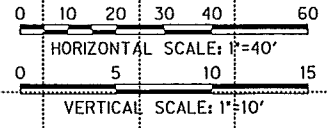
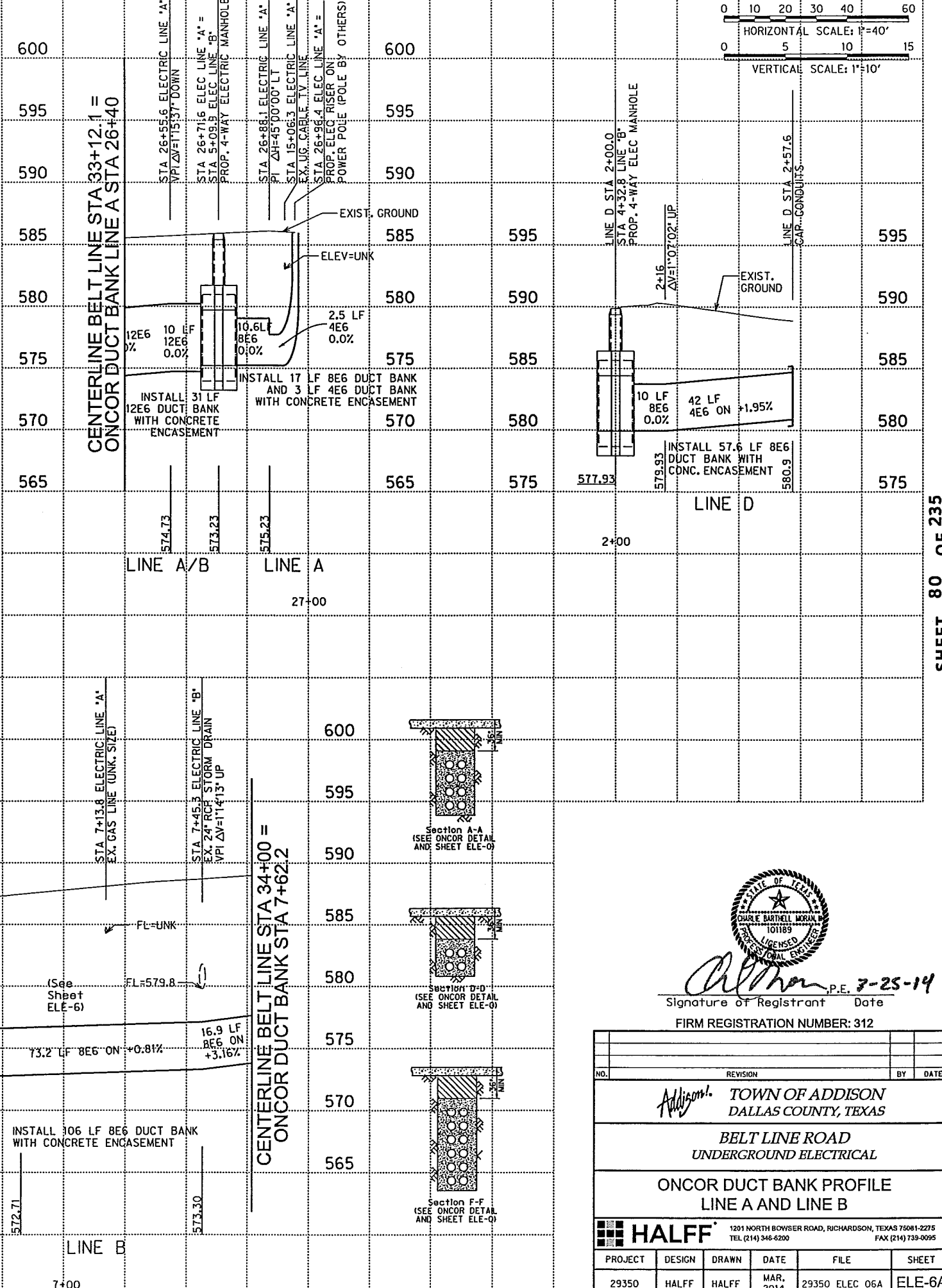


LEGEND

- PROPOSED PULL OR SERVICE BOX (AS NOTED)
- ⊗ PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
- ⊠ PROPOSED TRANSFORMER PAD
- ⊞ PROPOSED VISTA GEAR PAD
- ⊞ PROPOSED PME PAD
- ⊞ PROPOSED ELECTRICAL DUCT BANK MANHOLE
- PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
- B.O.T.O.C.
- PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
- SIZE
- PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
- Ⓜ PROPOSED CABINET FOR ONCOR PROVIDED METER

NOTE:

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4. ALL ELECTRIC LOAD CABLES TO BE INSTALLED IN JOINT TRENCH WITH RELOCATED FRANCHISE UTILITIES, EXCEPT AS NECESSARY TO CONNECT TO ELECTRICAL EQUIPMENT OR AS NOTED ON THE PLANS. FOR JOINT TRENCH SEE
5. INSTALL ELECTRICAL MARKER PROVIDED BY ONCOR AT ALL BURIED STUBOUTS.

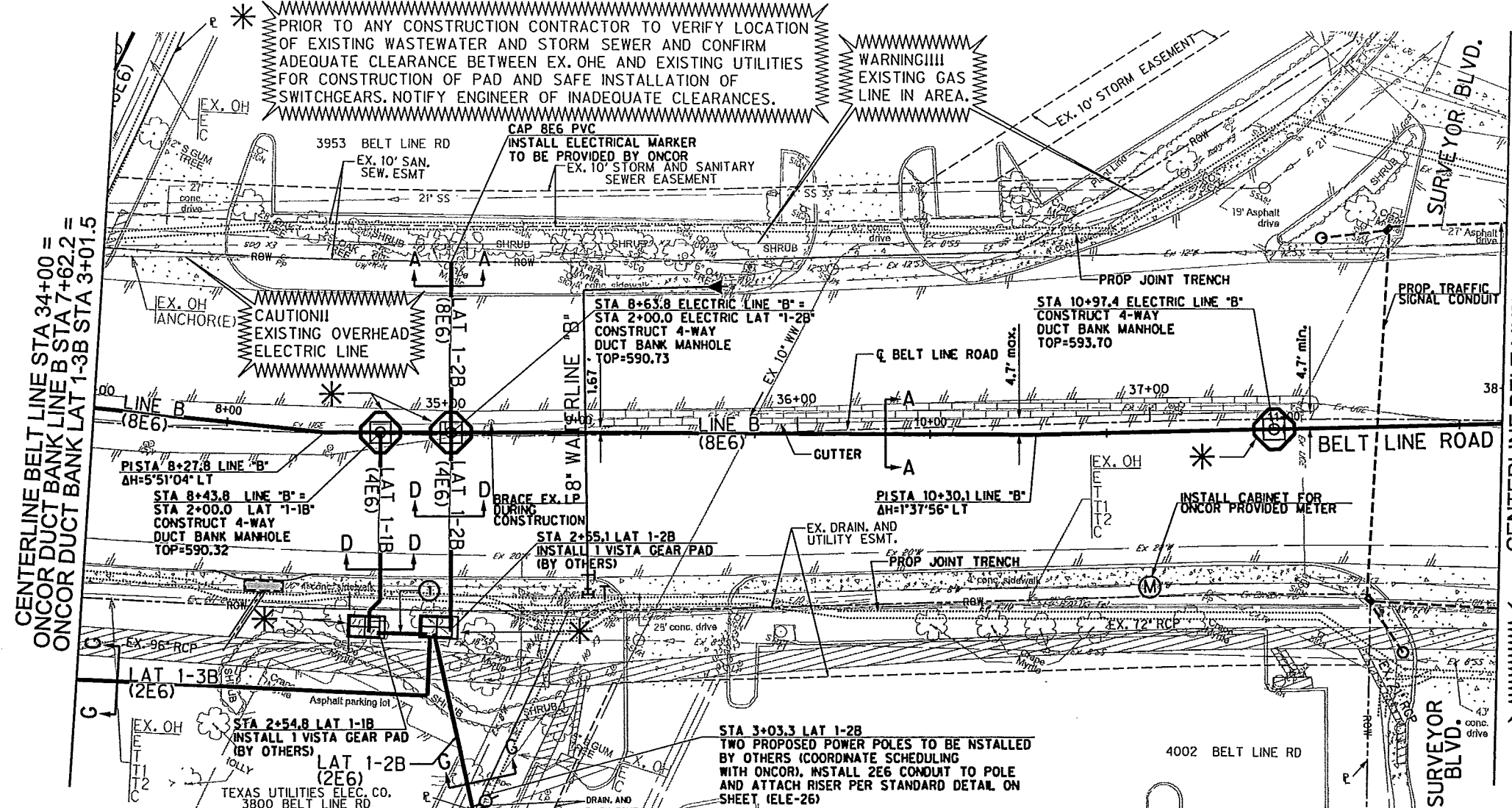
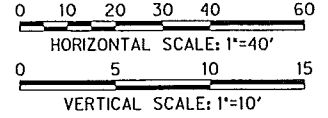


Signature of Registrant: *Charles Moran* Date: 7-25-14

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE
HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095			
PROJECT	DESIGN	DRAWN	DATE
29350	HALFF	HALFF	MAR. 2014
FILE	SHEET		
29350 ELEC 06A	ELE-6A		

USER: ah1299
 PROJECT # 29350 OFFICE: RCH
 DATE: 3/25/2014 TIME: 2:49:30 PM FILE: 29350 ELEC 07.dgn



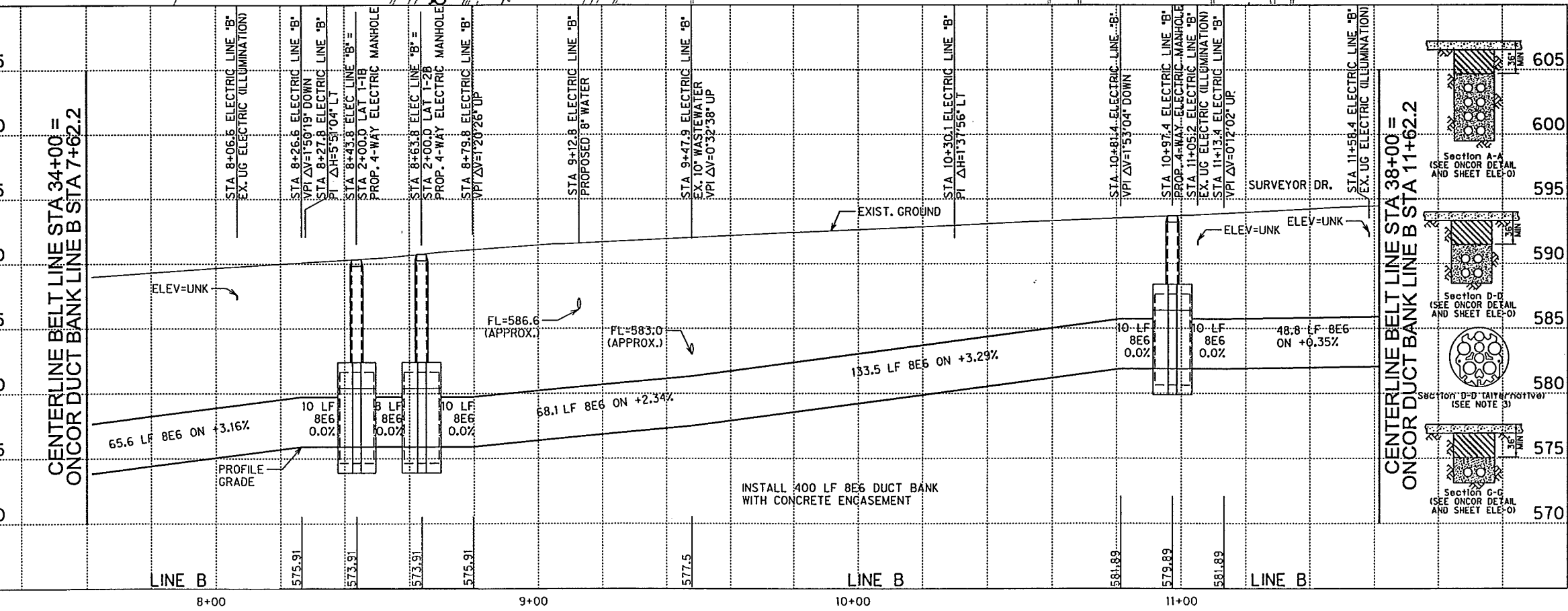
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- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
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 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
 - SIZE
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER
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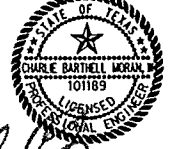
CENTERLINE BELT LINE STA 34+00 = ONCOR DUCT BANK LINE B STA 7+62.2 = ONCOR DUCT BANK LAT 1-3B STA 3+01.5

CENTERLINE BELT LINE STA 38+00 = ONCOR DUCT BANK LINE B STA 11+62.2

INSTALL 20 LF - 2E4



2. CONTRACTOR SHALL END AND CAP ALL CONDUIT TERMINATING AT SWITCHGEAR OR TRANSFORMER PADS 12 INCHES ABOVE FINISHED GRADE AND COORDINATE FINAL CONDUIT LOCATIONS WITH ONCOR.
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Signature of Registrant: *Charles Moran* Date: P.E. 3-25-14

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

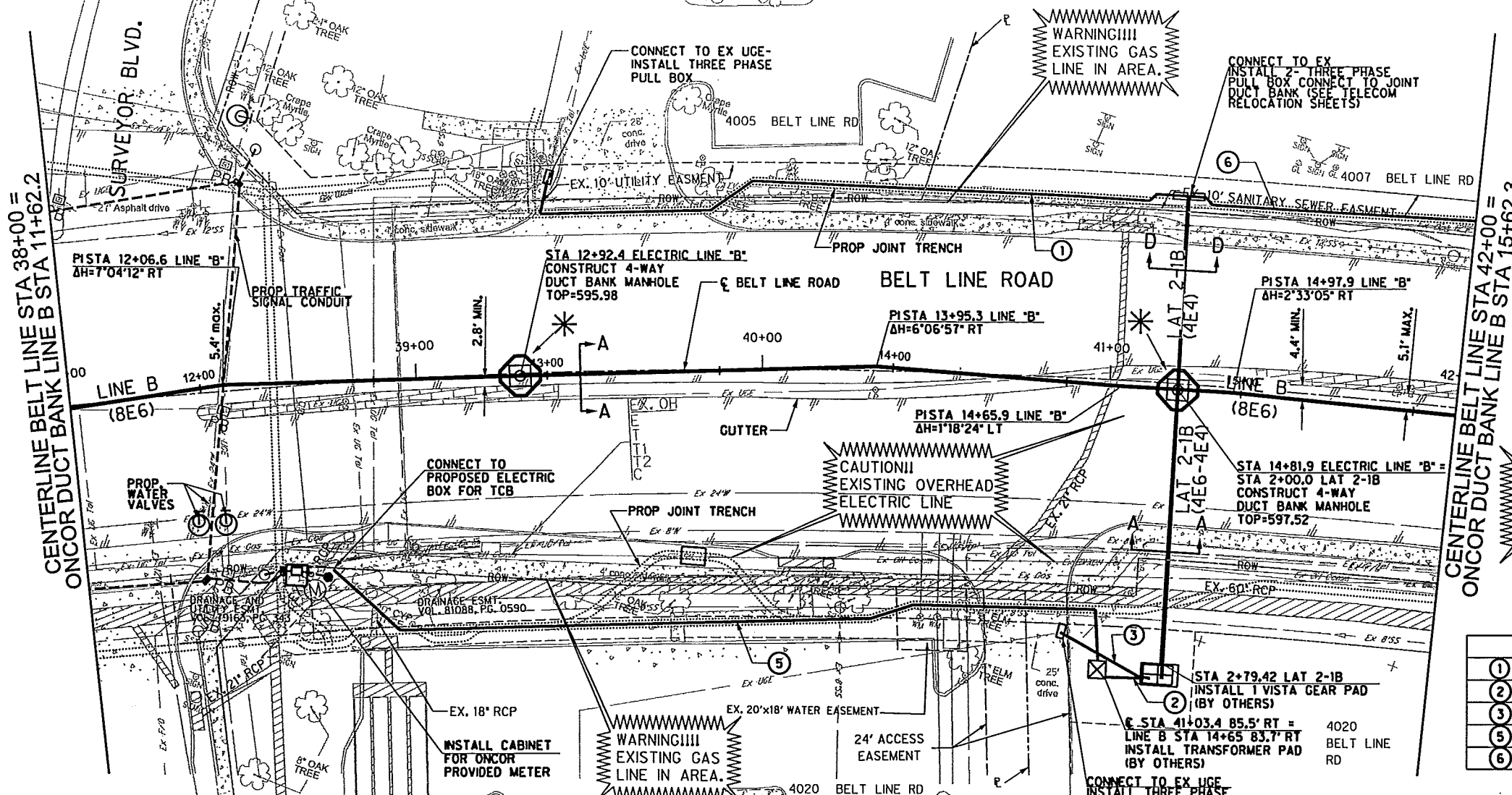
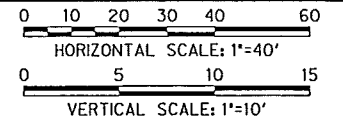
BELT LINE ROAD UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE BELT LINE RD STA 34+00 TO STA 38+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 07	ELE-7

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

DATE: 3/25/2014 TIME: 2:49:32 PM FILE: 29350 ELEC 08.dgn PROJECT # 29350 OFFICE: RCH USER: ch1299

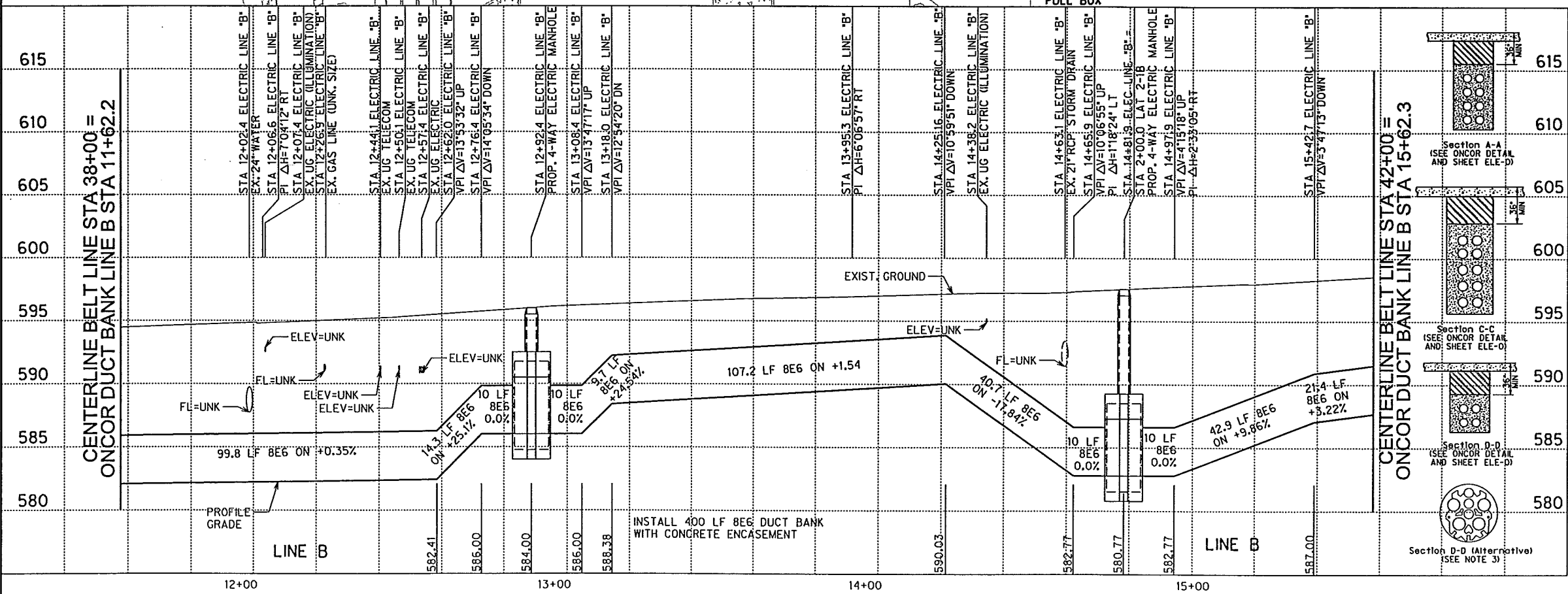


EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

- LEGEND**
- PROPOSED PULL OR SERVICE BOX (AS NOTED)
 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - PROPOSED ELECTRIC DUCT BANK BY OPEN CUT
 - PROPOSED JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER
- NOTE:**
- ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.
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LOAD CABLES
(SEE NOTE 4)

	L	TYPE
1	185'	2E4
2	11'	2E4
3	25'	2E4
5	245'	2E4
6	85'	2E4



Charles Moran P.E. 3-25-14
Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

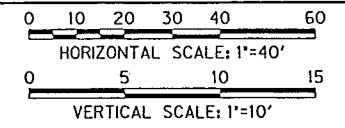
BELT LINE ROAD
UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE
BELT LINE RD STA 38+00 TO STA 42+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 08	ELE-8

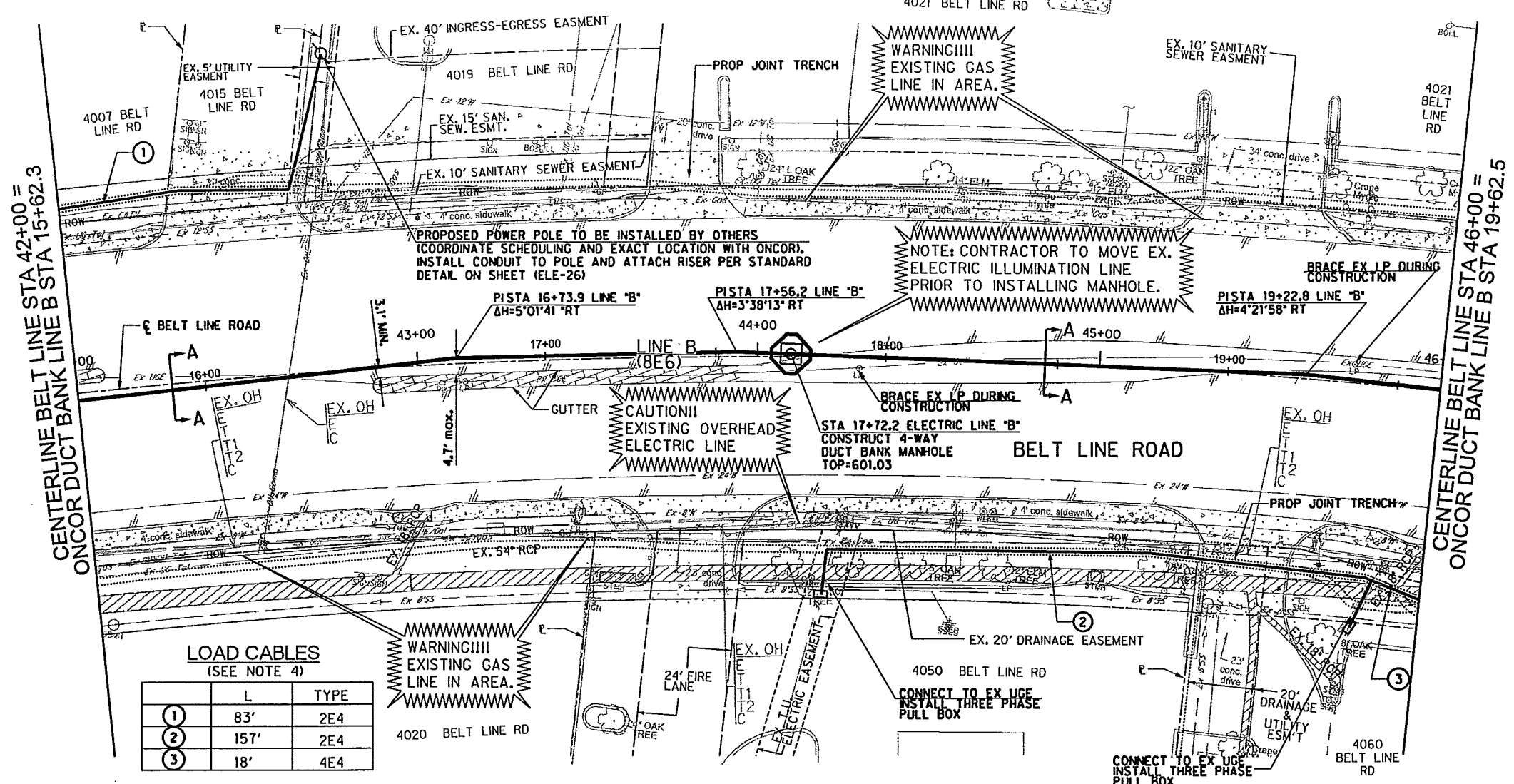
HALFF 1201 NORTH BOYSSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

DATE: 3/25/2014 TIME: 2:49:36 PM FILE: 29350 ELEC 09.dgn PROJECT # 29350 OFFICE: RCH USER: ah1299



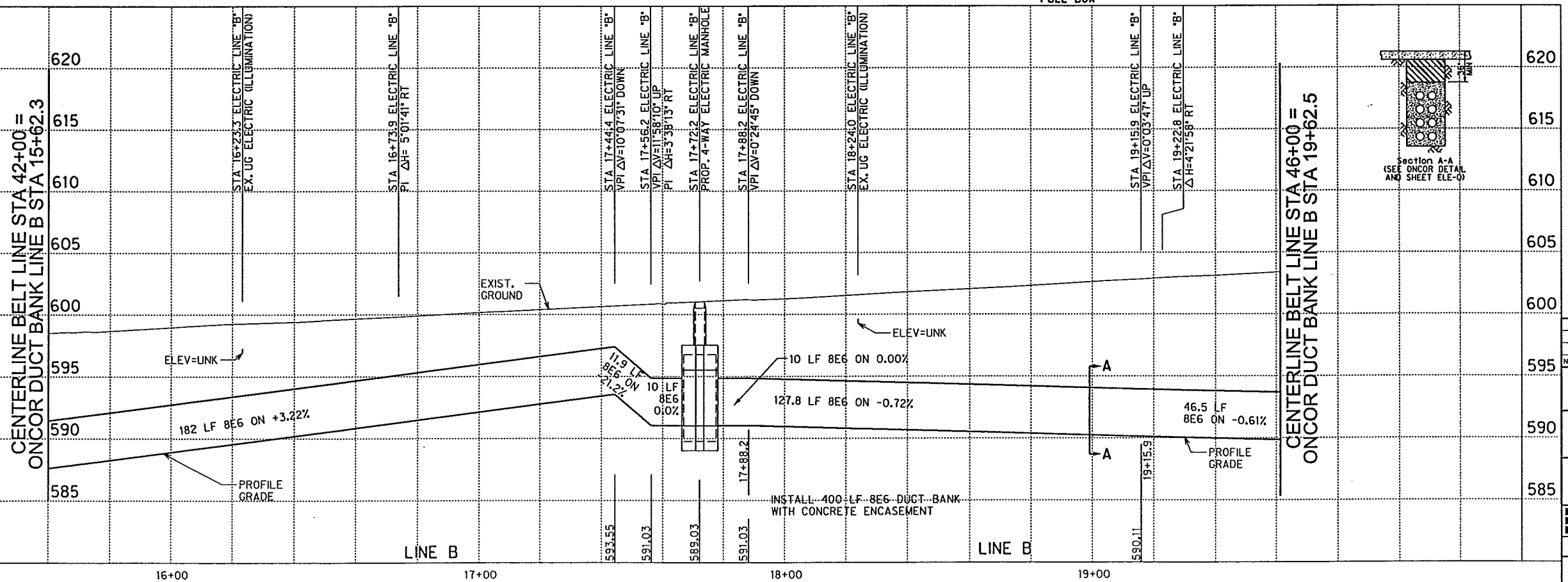
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- LEGEND**
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 - PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
 - PROPOSED TRANSFORMER PAD
 - PROPOSED VISTA GEAR PAD
 - PROPOSED PME PAD
 - PROPOSED ELECTRICAL DUCT BANK MANHOLE
 - PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
 - B.O.T.O.C.
 - PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
 - SIZE
 - PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
 - PROPOSED CABINET FOR ONCOR PROVIDED METER
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LOAD CABLES
(SEE NOTE 4)

	L	TYPE
①	83'	2E4
②	157'	2E4
③	18'	4E4



3. STEEL ENCASUREMENT PIPE SIZES SHOWN ARE APPROX. AND SHALL BE AS REQUIRED FOR CONSTRUCTION AND RECOMMENDED BY PIPE SPACER MANUFACTURER. PIPE SPACERS SHALL BE DESIGNED AND SUPPLIED BY UNDERGROUND DEVICES, INC. OR APPROVED EQUAL.

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Signature P.E. 3-25-14
Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

TOWN OF ADDISON
DALLAS COUNTY, TEXAS

BELT LINE ROAD
UNDERGROUND ELECTRICAL

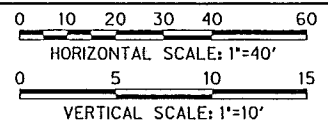
ONCOR DUCT BANK PLAN AND PROFILE
BELT LINE RD STA 42+00 TO STA 46+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 09	ELE-9

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-8200 FAX (214) 739-0095

SHEET 83 OF 235

USER: ch1299
 OFFICE: RCH
 PROJECT: 29350
 FILE: 29350 ELEC 10.dgn
 TIME: 2:49:39 PM
 DATE: 3/25/2014



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

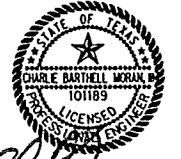
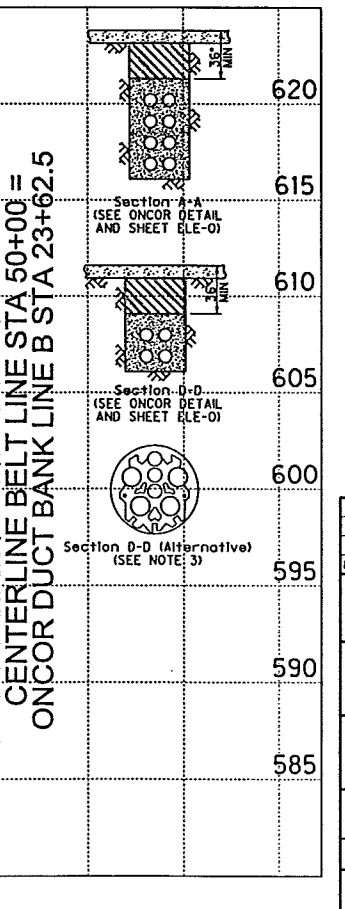
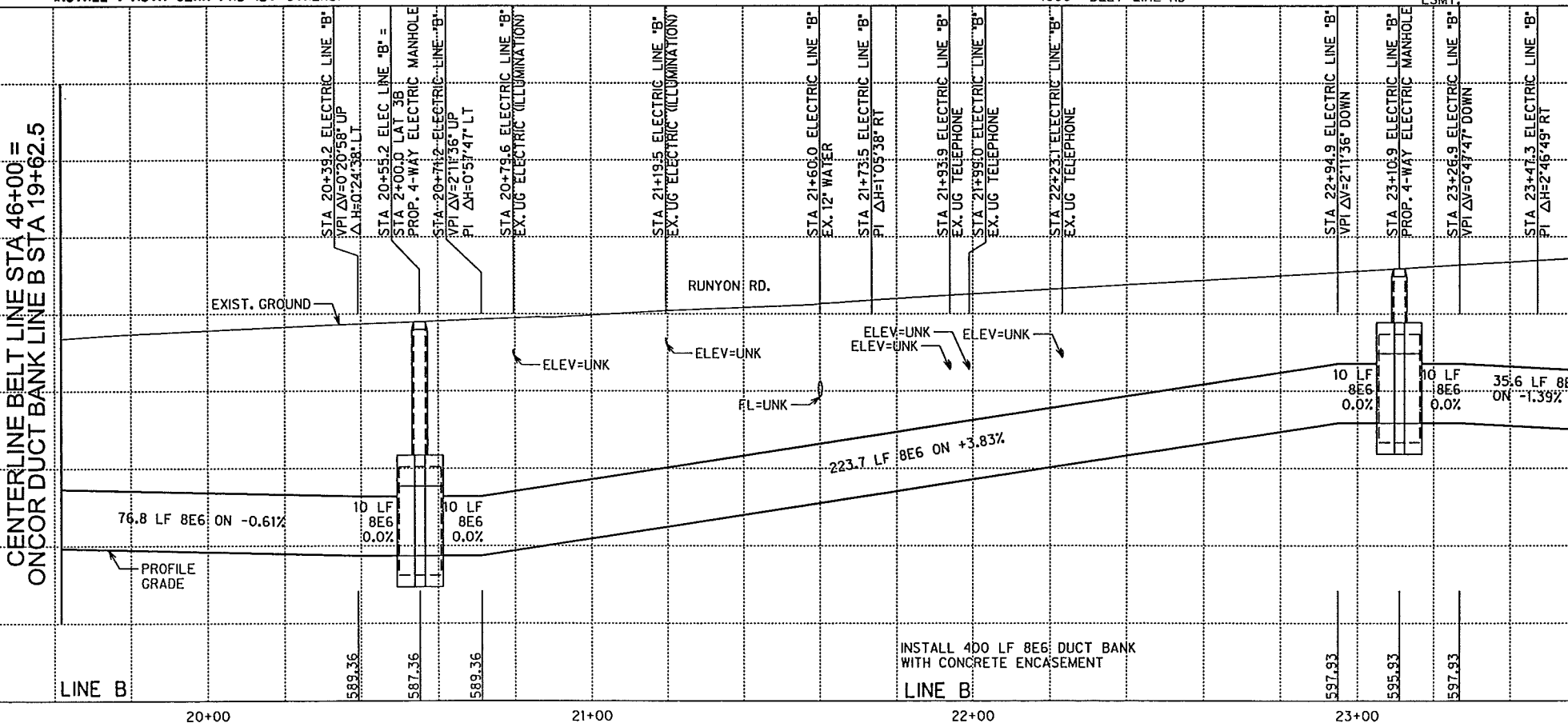
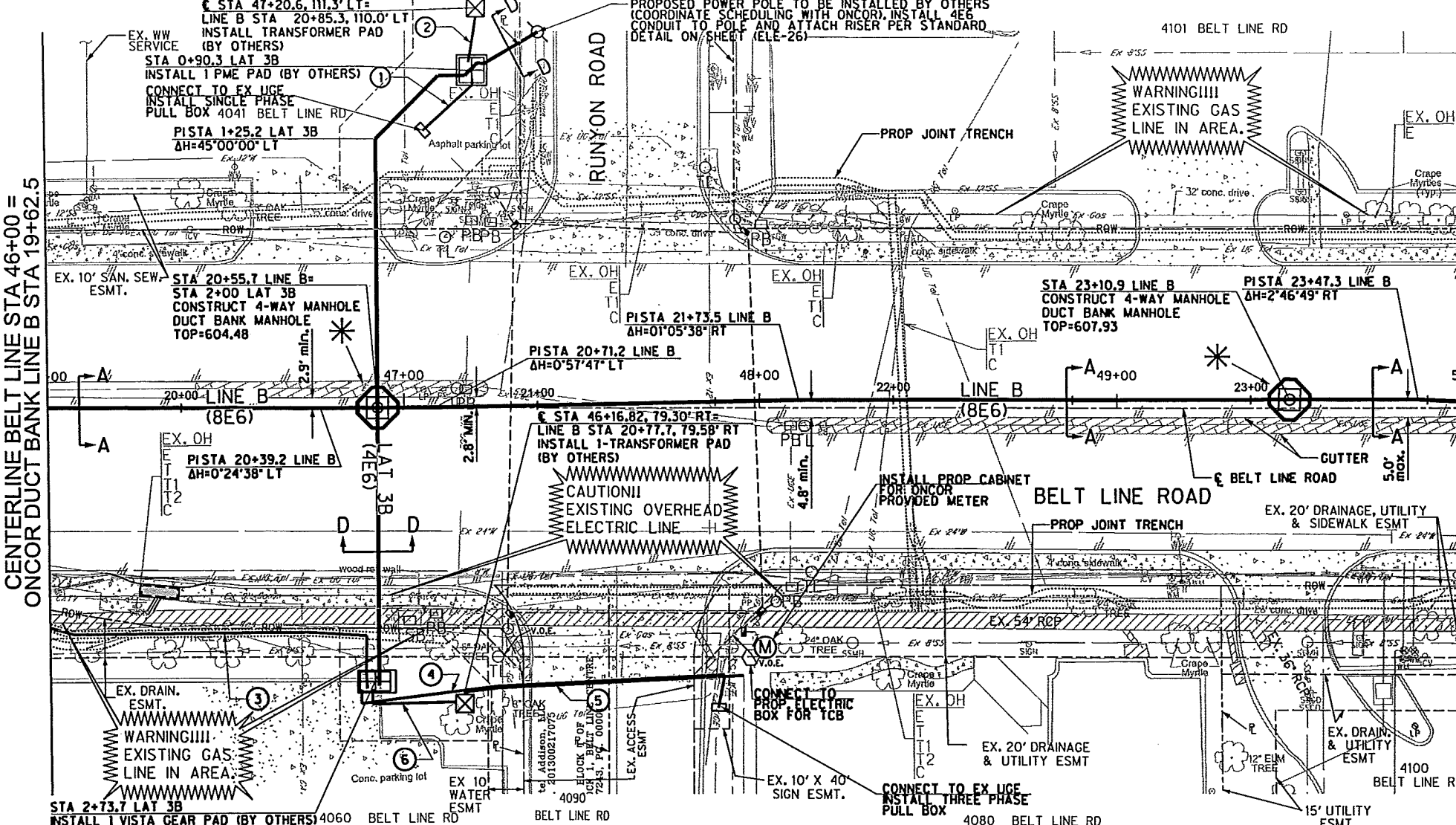
LEGEND

- PROPOSED PULL OR SERVICE BOX (AS NOTED)
- PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
- PROPOSED TRANSFORMER PAD
- PROPOSED VISTA GEAR PAD
- PROPOSED PME PAD
- PROPOSED ELECTRICAL DUCT BANK MANHOLE
- PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
- B.O.T.O.C.
- PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
- SIZE
- PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
- (M) PROPOSED CABINET FOR ONCOR PROVIDED METER

NOTE:
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LOAD CABLES
(SEE NOTE 4)

	L	TYPE
①	20'	2E4
②	15'	2E4
③	98'	4E4
④	30'	2E2
⑤	75'	2E4-2E2
⑥	30'	2E4



Signature of Registrant: *Charles Moran* Date: 3-25-14

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

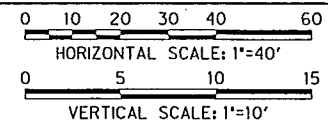
ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

BELT LINE ROAD UNDERGROUND ELECTRICAL

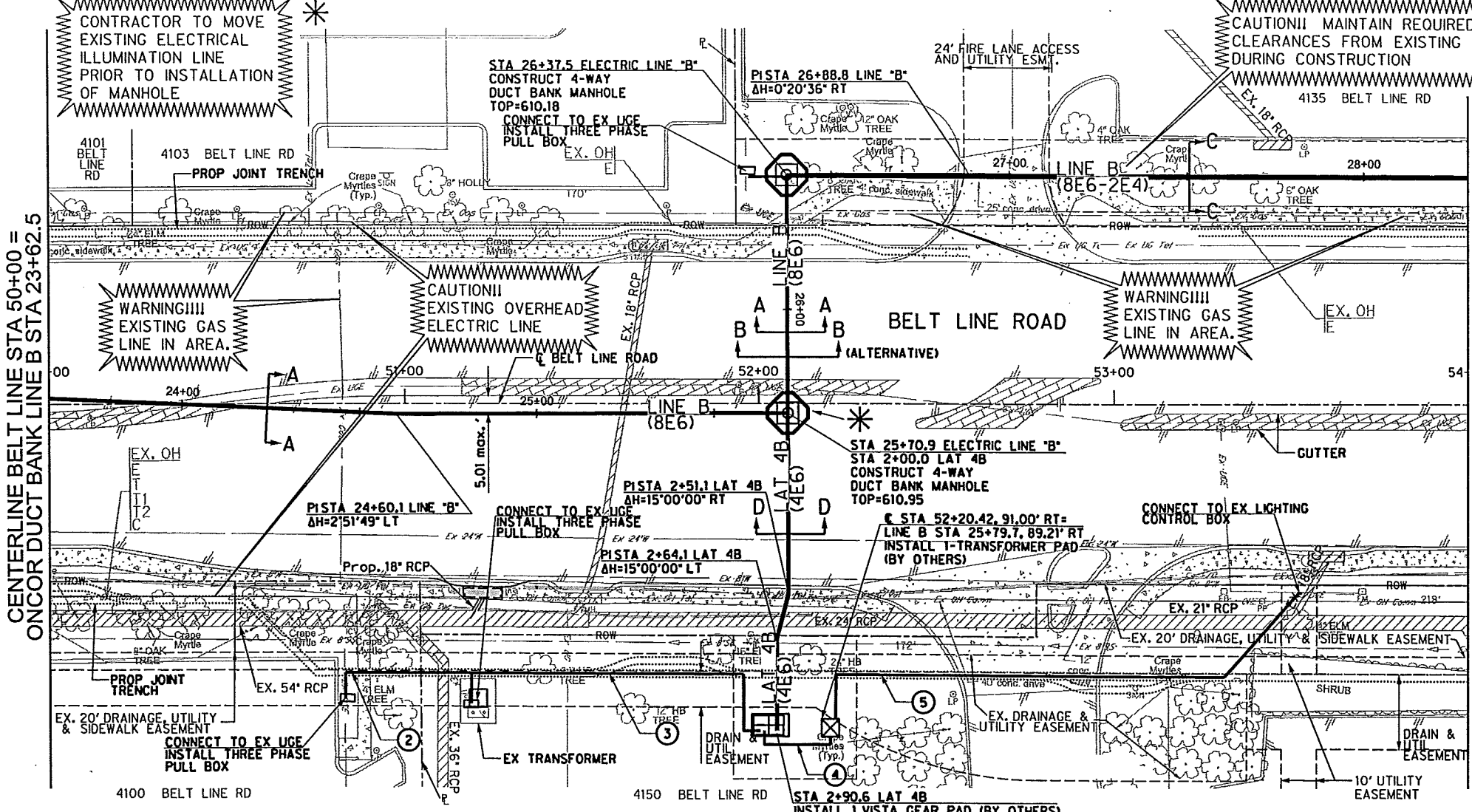
ONCOR DUCT BANK PLAN AND PROFILE BELT LINE RD STA 46+00 TO STA 50+00

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR, 2014	29350 ELEC 10	ELE-10

USER: gh1299
 OFFICE: RCH
 PROJECT: 29350
 DATE: 3/25/2014
 TIME: 2:48:43 PM
 FILE: 29350 ELEC 11.dgn



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

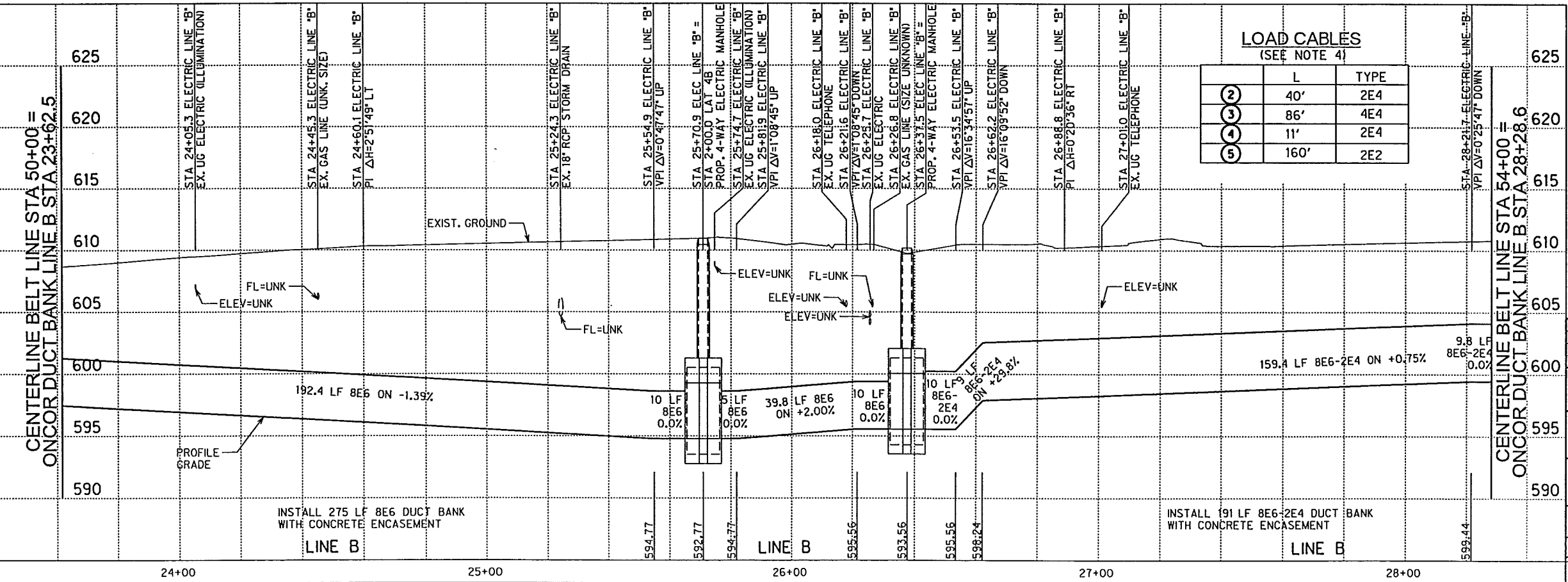


LEGEND

- PROPOSED PULL OR SERVICE BOX (AS NOTED)
- PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
- PROPOSED TRANSFORMER PAD
- PROPOSED VISTA GEAR PAD
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- SIZE
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REVISION

NO.	REVISION	BY	DATE

Signature of Registrant *Charles Barthell Moran* **Date** 3-25-14
FIRM REGISTRATION NUMBER: 312

TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

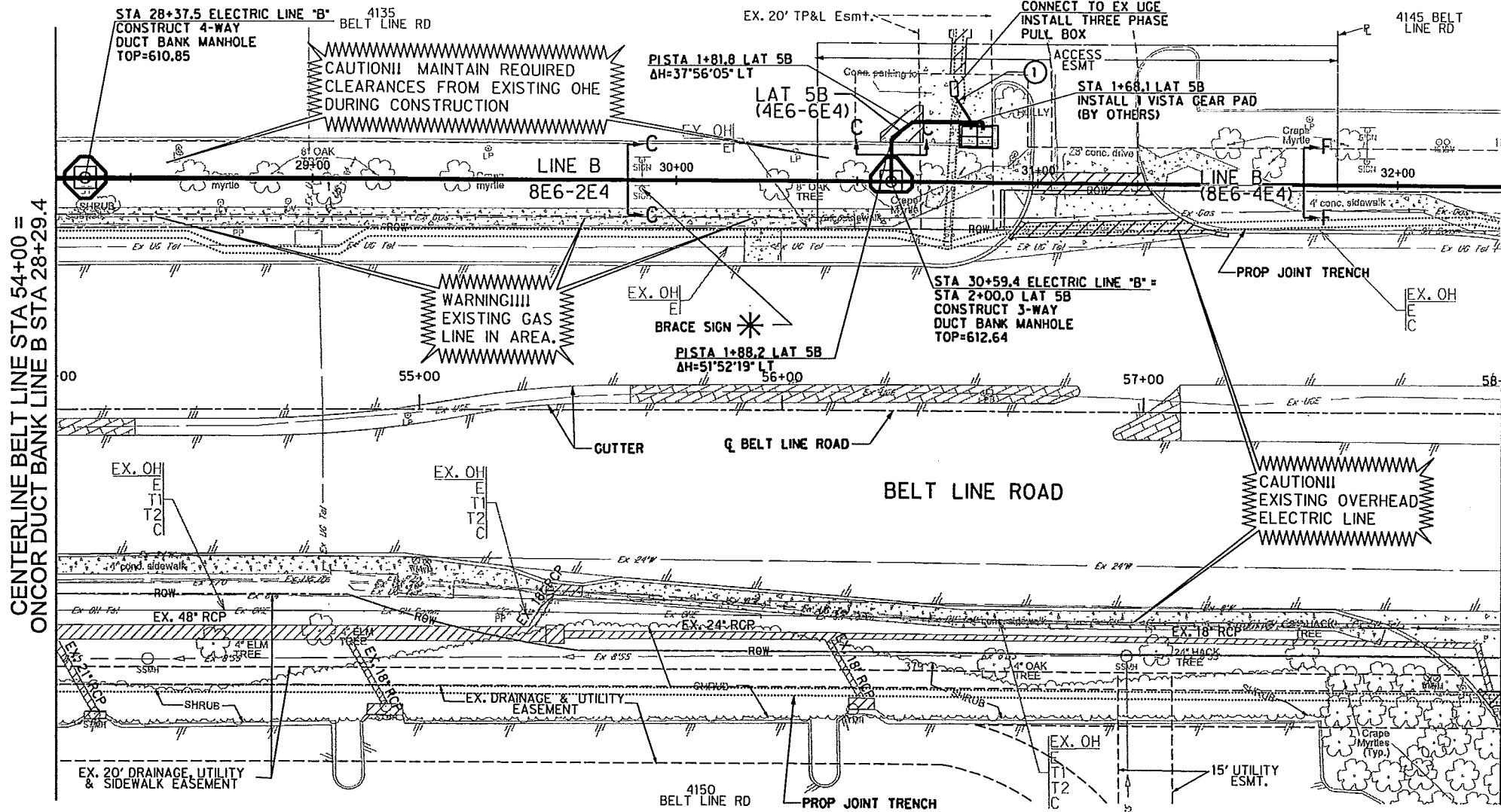
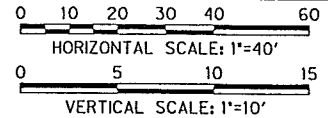
BELT LINE ROAD
 UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE
 BELT LINE RD STA 50+00 TO STA 54+00

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR, 2014	29350 ELEC 11	ELE-11

DATE: 3/25/2014 TIME: 2:49:45 PM FILE: 29350 ELEC 12.dgn PROJECT # 29350 OFFICE: RCH USER: ah1299



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

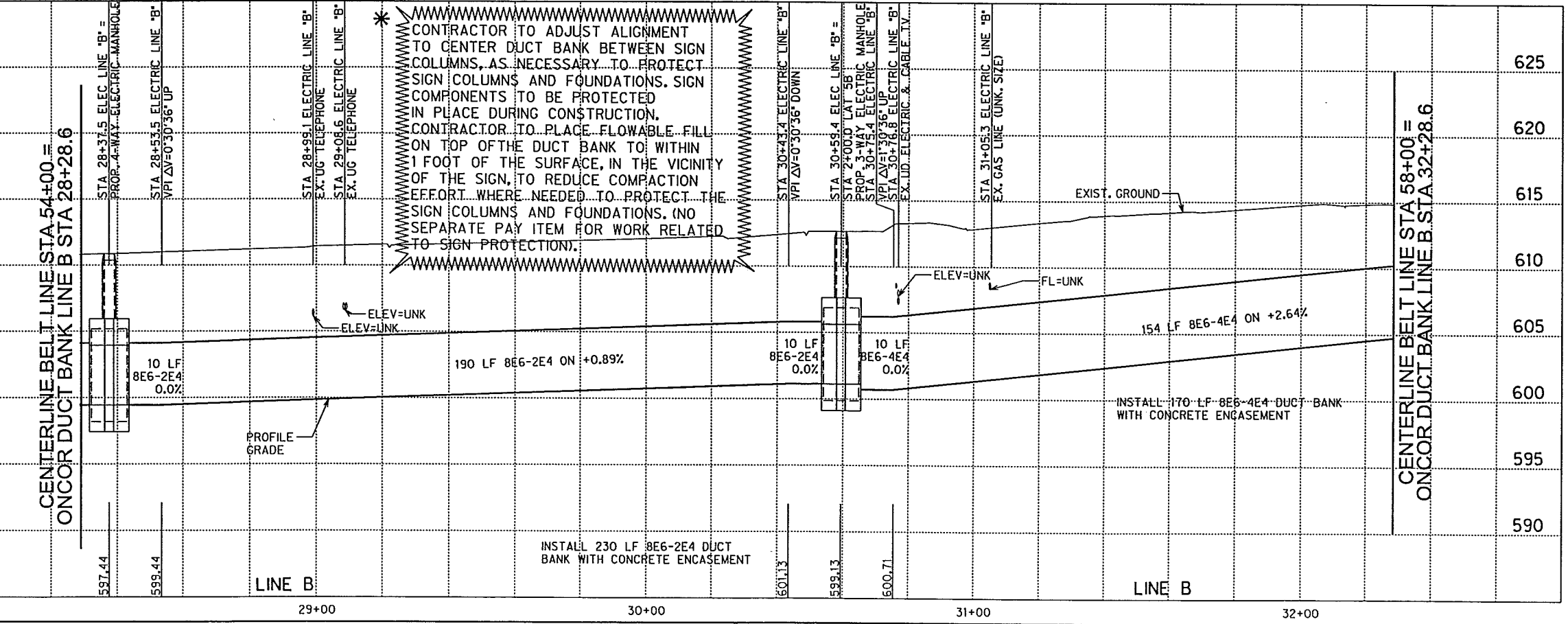
LEGEND

- PROPOSED PULL OR SERVICE BOX (AS NOTED)
- PROPOSED POWER POLE WITH RISER (POWER POLE BY OTHERS)
- PROPOSED TRANSFORMER PAD
- PROPOSED VISTA GEAR PAD
- PROPOSED PME PAD
- PROPOSED ELECTRICAL DUCT BANK MANHOLE
- PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
- B.O.T.O.C.
- PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
- SIZE
- PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
- PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

Symbol	L	TYPE
(Circle with 1)	8'	2E4

NOTE:
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REGISTERED PROFESSIONAL ENGINEER
 CHARLES BARTHELL MORAN, 101189
 Signature of Registrant: *Ch Moran*, Date: 3-25-14
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

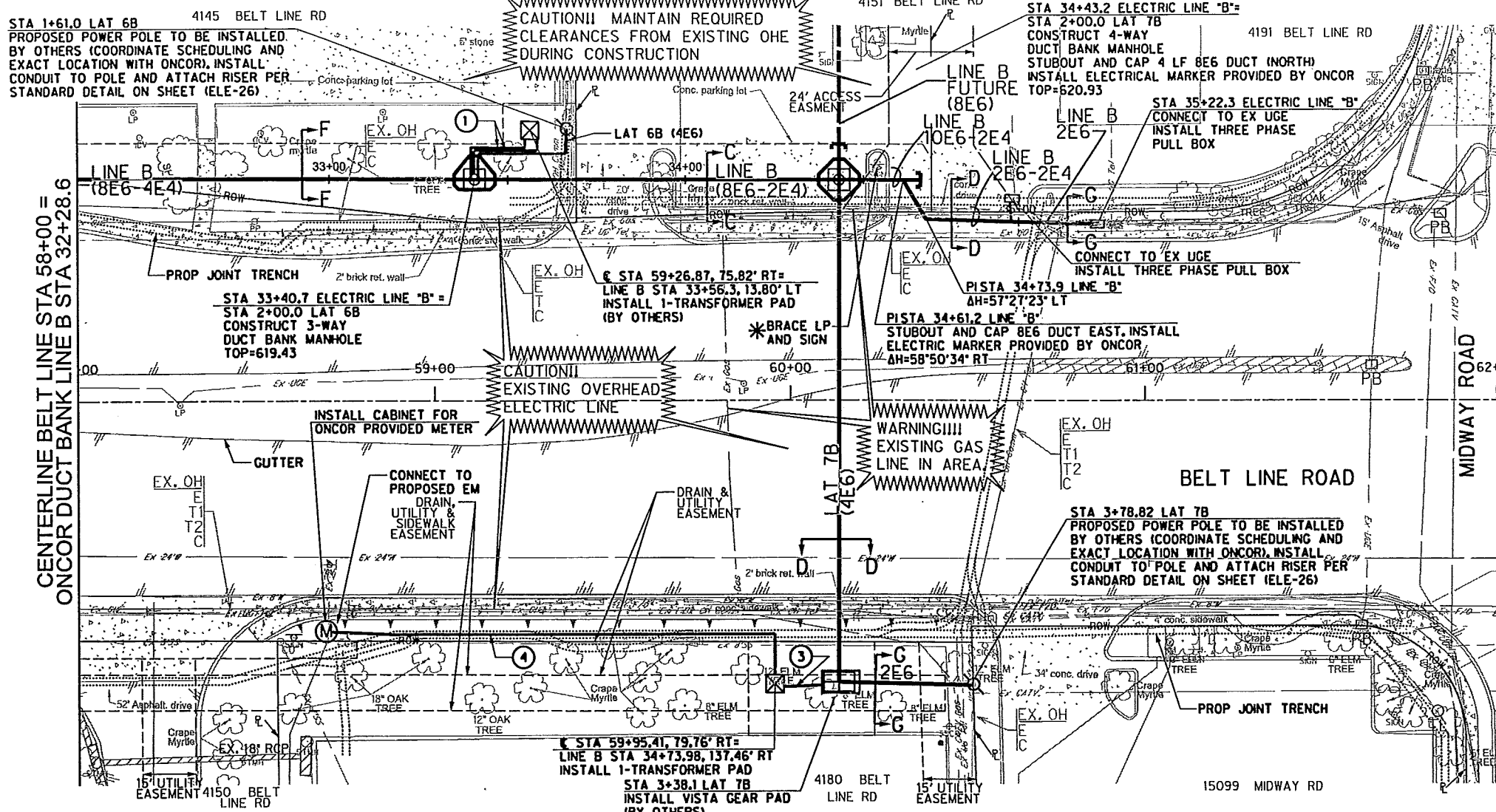
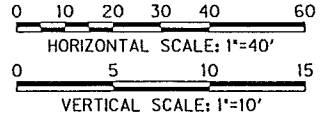
BELT LINE ROAD
 UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE
 BELT LINE RD STA 54+00 TO STA 58+00

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 12	ELE-12

SHEET 86 OF 235



EXISTING UTILITY LOCATIONS SHOWN ARE SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. SOME UTILITY LINES MAY NOT BE SHOWN. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ACTUAL FIELD LOCATION AND PROTECTION OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT. CONTRACTOR SHALL ALSO ASSUME RESPONSIBILITY FOR REPAIRS TO EXISTING UTILITIES, WHETHER SHOWN OR NOT, DAMAGED BY CONTRACTOR'S ACTIVITIES. DIFFERENCES IN HORIZONTAL OR VERTICAL LOCATION OF EXISTING UTILITIES SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION. CALL 1-800-344-8377 TWO WORKING DAYS PRIOR TO CONSTRUCTION FOR ONSITE LOCATIONS.

LEGEND

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- PROPOSED TRANSFORMER PAD
- PROPOSED VISTA GEAR PAD
- PROPOSED PME PAD
- PROPOSED ELECTRICAL DUCT BANK MANHOLE
- PROPOSED ELECTRIC DUCT BANK BY OTHER THAN OPEN CUT
- B.O.T.O.C.
- PROPOSED ELECTRICAL DUCT BANK BY OPEN CUT
- SIZE
- PROP JOINT TRENCH (FRANCHISE & ONCOR) (SEE NOTE 4)
- PROPOSED CABINET FOR ONCOR PROVIDED METER

LOAD CABLES
(SEE NOTE 4)

	L	TYPE
①	32'	4E4
③	11'	2E4
④	131'	2E2

NOTE:
1. ALL PROFILE ELEVATIONS FOR ELECTRICAL DUCT BANK ARE FOR OUTSIDE BOTTOM OF DUCT BANK UNLESS OTHERWISE SPECIFIED. ALL PROFILE ELEVATIONS FOR ELECTRICAL MANHOLES ARE FOR OUTSIDE BOTTOM OF MANHOLE FLOOR UNLESS OTHERWISE SPECIFIED.

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Signature of Registrant: *Ch Moran* P.E. 3-25-14
Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

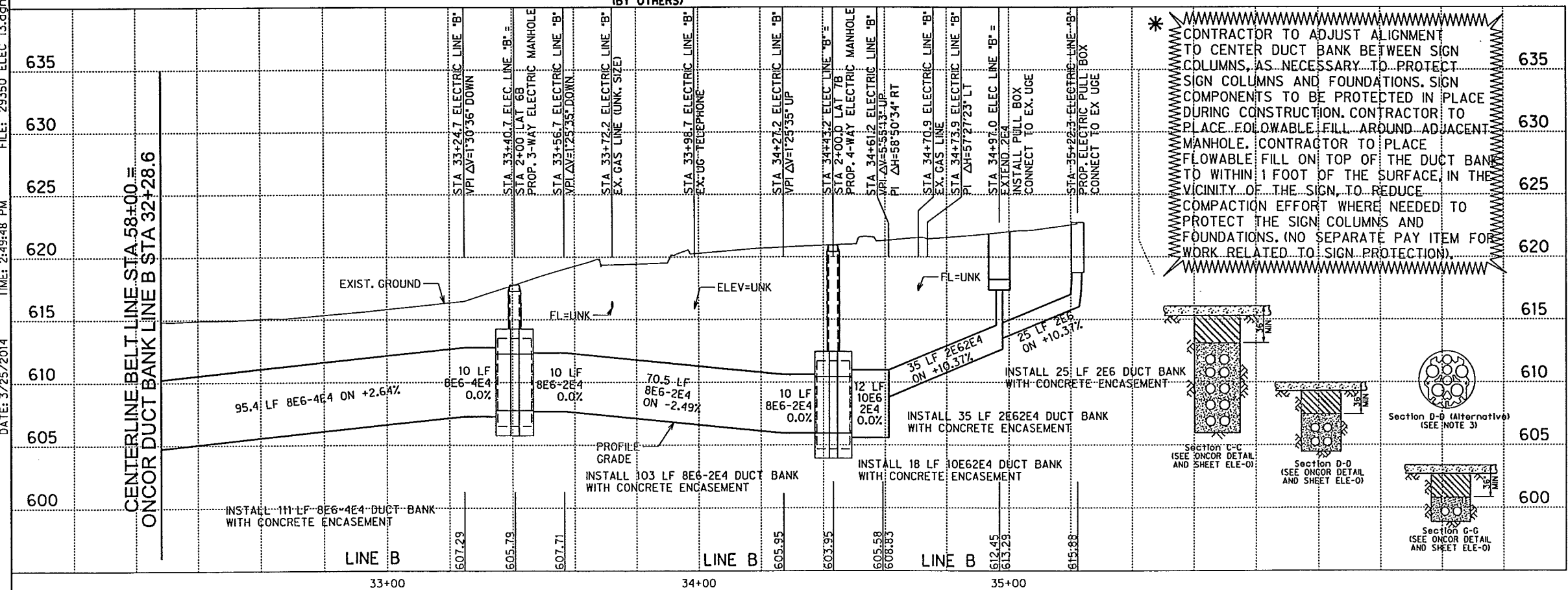
ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

BELT LINE ROAD UNDERGROUND ELECTRICAL

ONCOR DUCT BANK PLAN AND PROFILE BELT LINE RD STA 58+00 TO STA 62+00

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

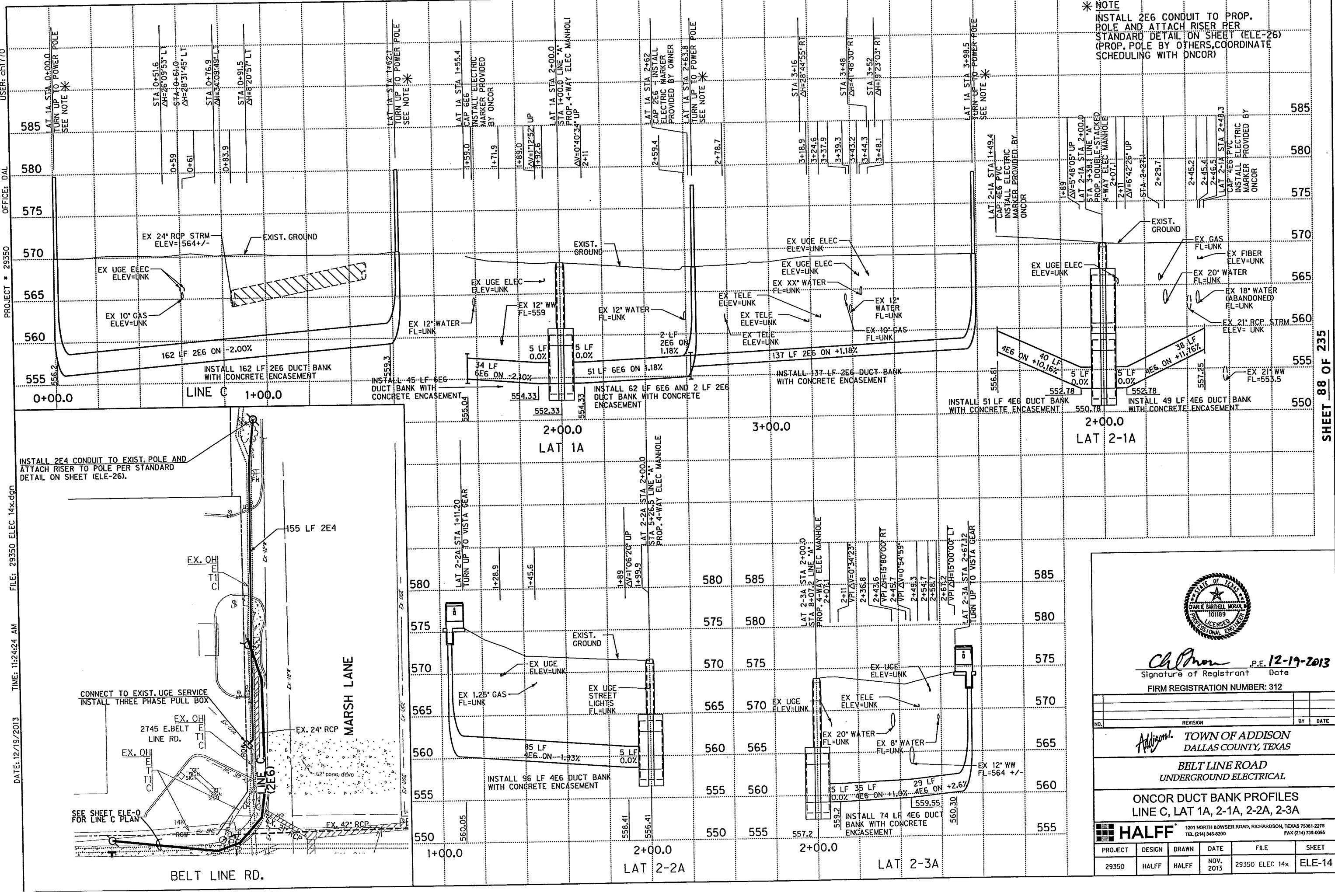
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	MAR. 2014	29350 ELEC 13	ELE-13



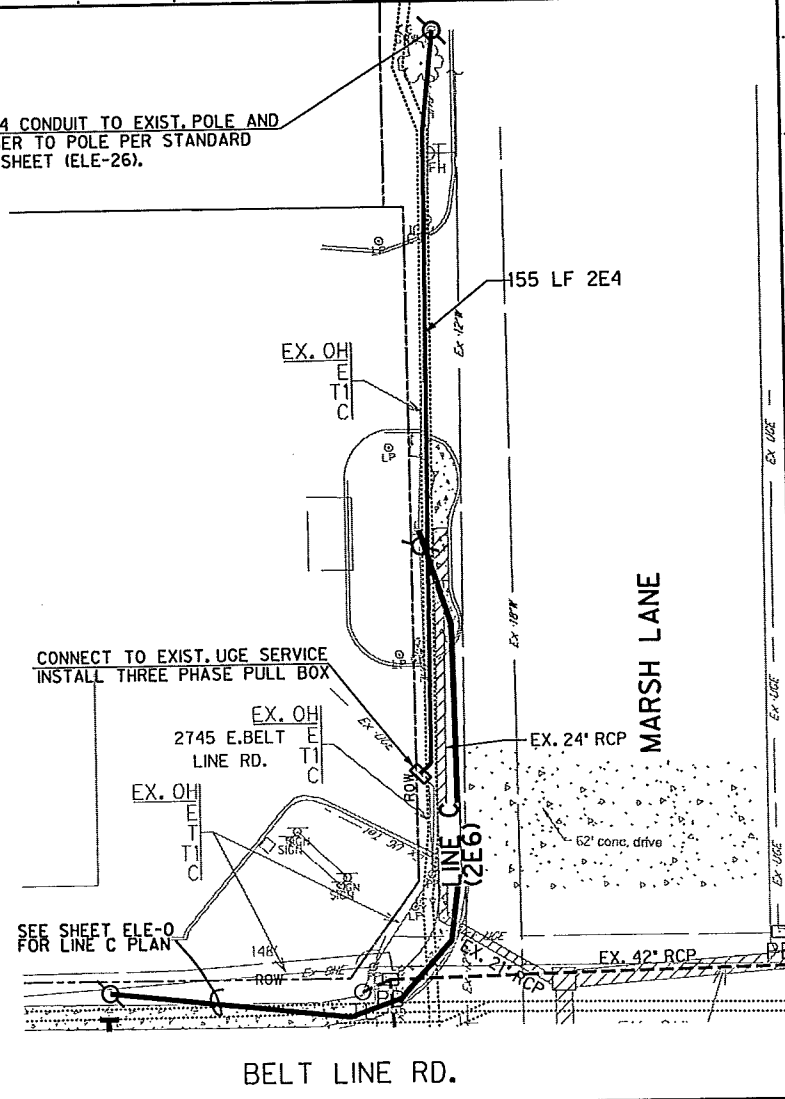
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 OFFICE: RCH
 PROJECT: 29350
 FILE: 29350 ELEC 13.dgn
 TIME: 2:49:48 PM
 DATE: 3/25/2014

USER: gh1770
 OFFICE: DAL
 PROJECT #: 29350
 FILE: 29350 ELEC 14x.dgn
 DATE: 12/19/2013
 TIME: 11:24:24 AM

* NOTE
 INSTALL 2E6 CONDUIT TO PROP.
 POLE AND ATTACH RISER PER
 STANDARD DETAIL ON SHEET (ELE-26)
 (PROP. POLE BY OTHERS, COORDINATE
 SCHEDULING WITH ONCOR)



INSTALL 2E4 CONDUIT TO EXIST. POLE AND
 ATTACH RISER TO POLE PER STANDARD
 DETAIL ON SHEET (ELE-26).



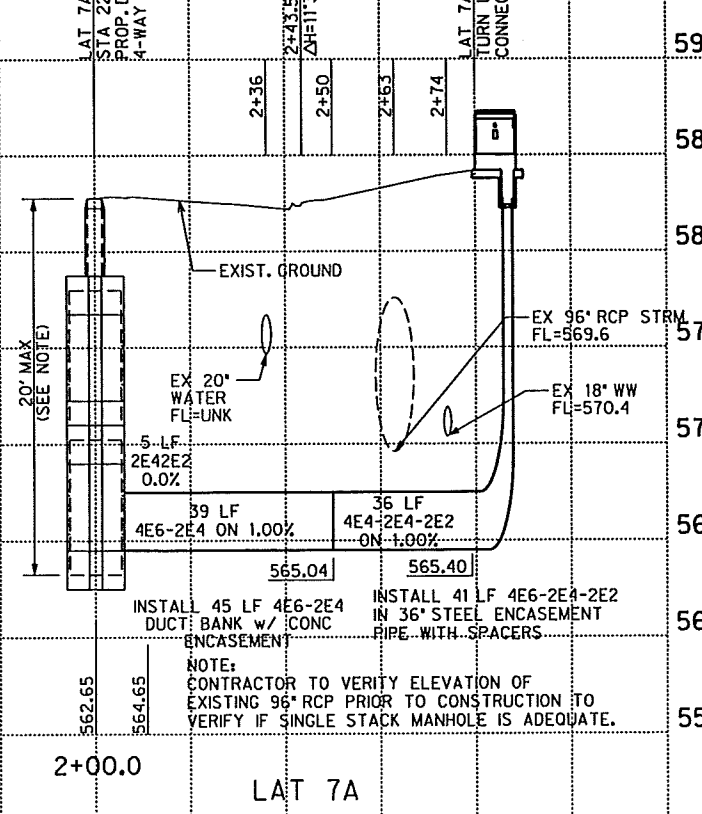
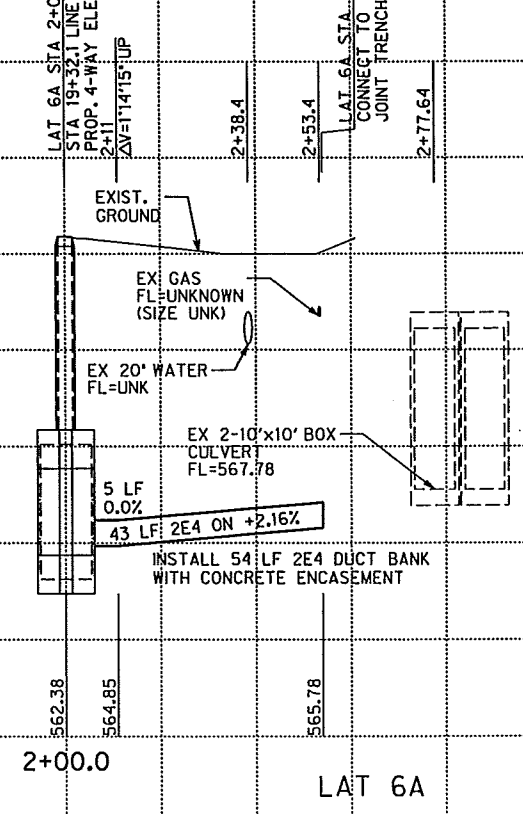
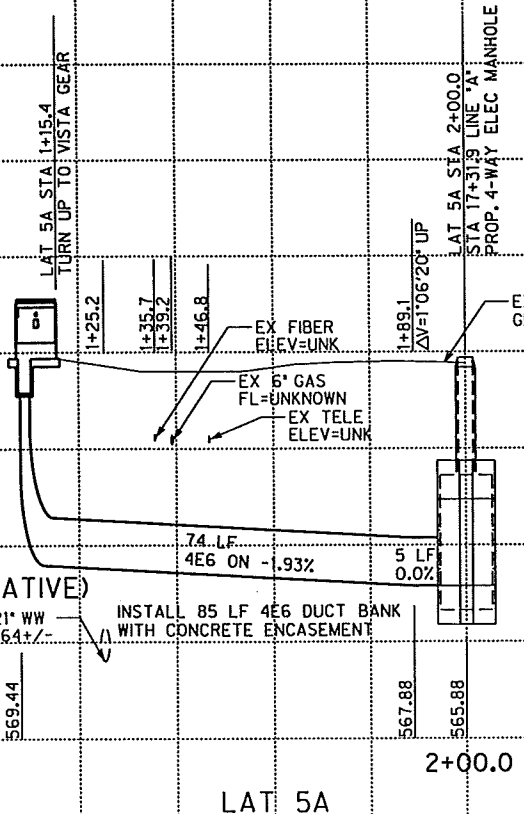
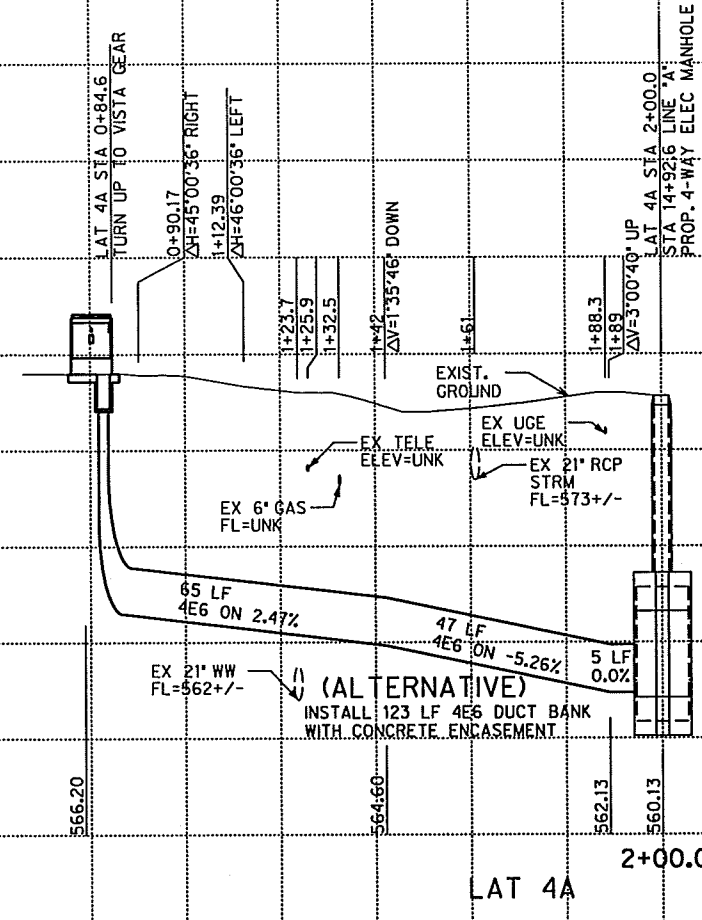
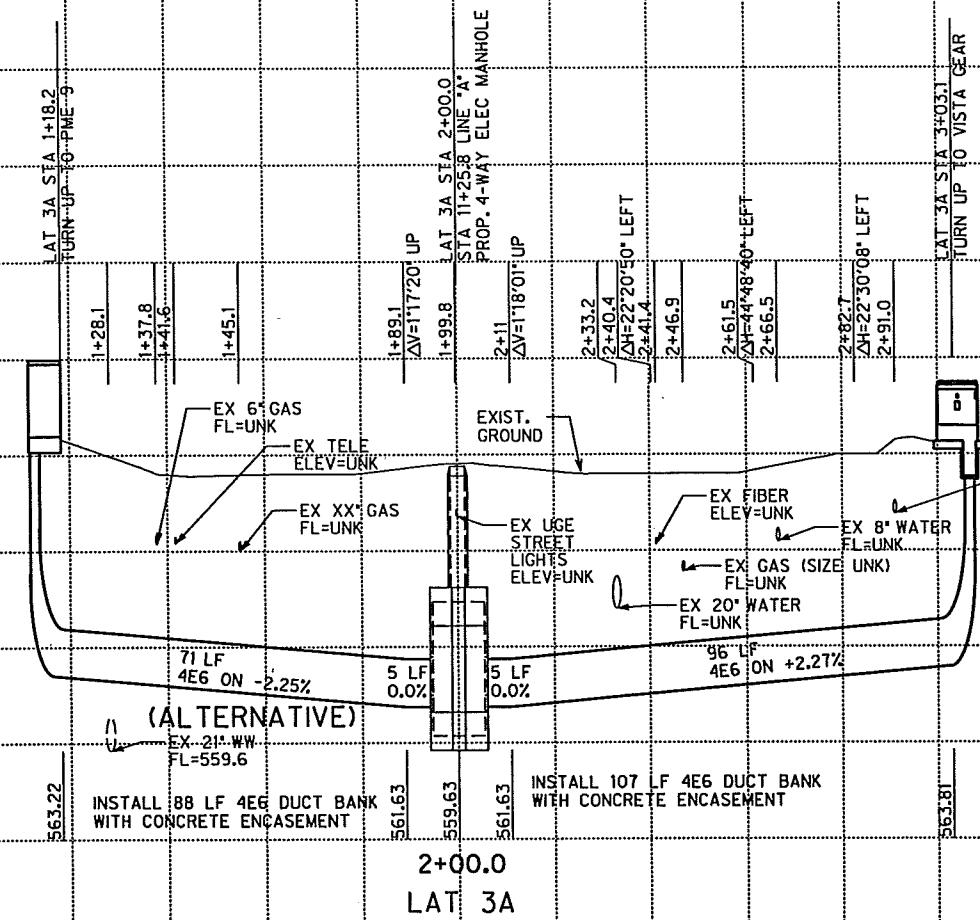
Ch Moran P.E. 12-19-2013
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-0200 FAX (214) 735-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 14x	ELE-14

SHEET 88 OF 235



Charles Moran, P.E. 11-8-2013
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

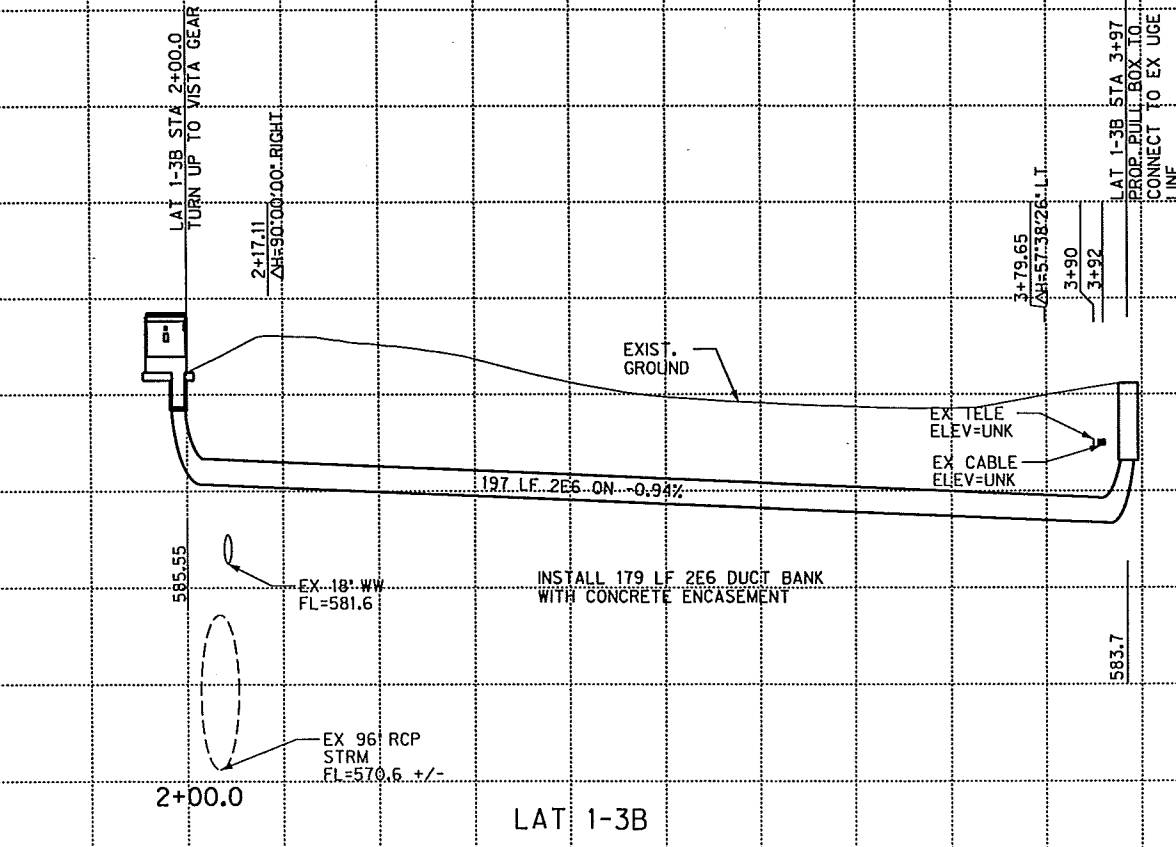
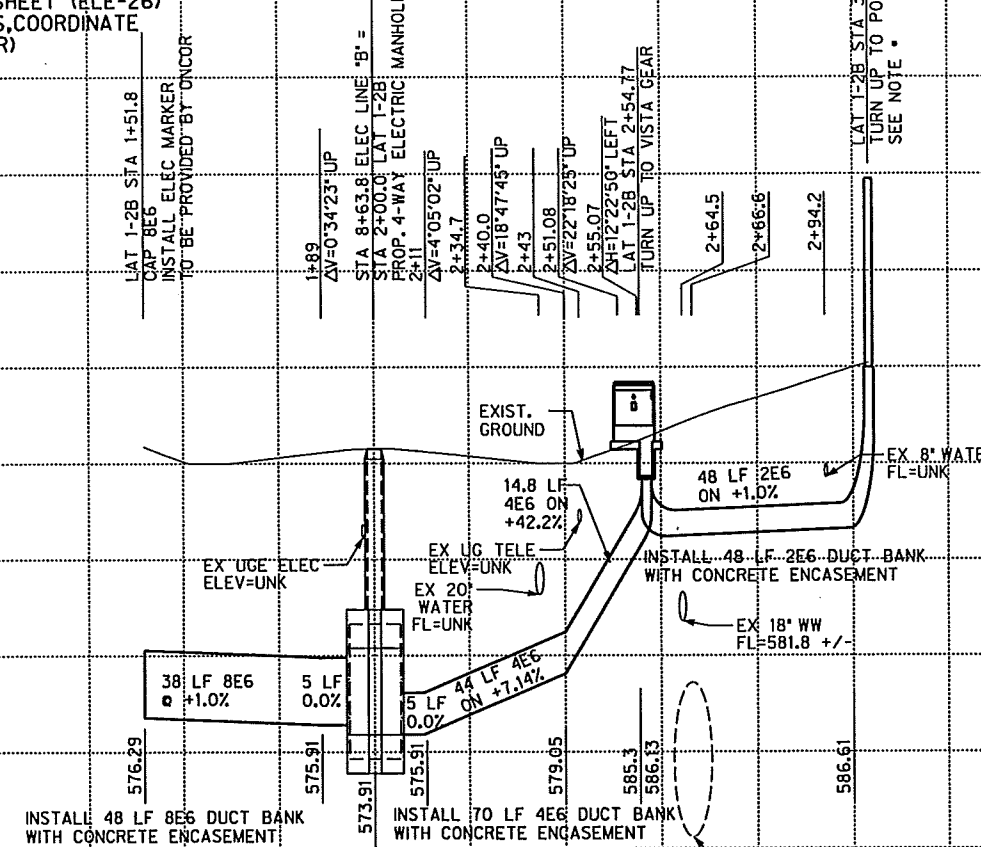
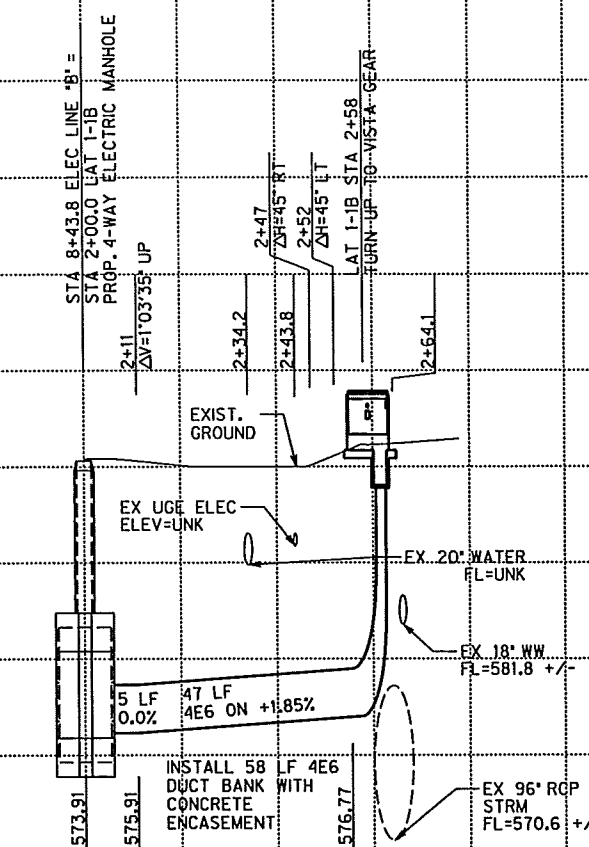
BELT LINE ROAD
 UNDERGROUND ELECTRICAL

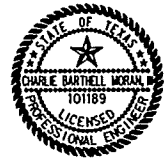
ONCOR DUCT BANK PROFILES
 LAT 3A, LAT 4A, LAT 5A, LAT 6A, LAT 7A

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 15x	ELE-15

NOTE
 INSTALL CONDUIT TO PROP. POLE AND ATTACH RISER PER STANDARD DETAIL ON SHEET (ELE-26) (PROP. POLE BY OTHERS, COORDINATE SCHEDULING WITH ONCOR)





Ch Moran, P.E. 11-8-2013
 Signature of Registrant Date

FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

ADDISON TOWN OF ADDISON DALLAS COUNTY, TEXAS

BELT LINE ROAD UNDERGROUND ELECTRICAL

**ONCOR DUCT BANK PROFILES
 LAT 1-1B, LAT 1-2B, LAT 1-3B**

	1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275 TEL (214) 346-6200 FAX (214) 739-0095				
PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 16x	ELE-16

USER: chl770

OFFICE: DAL

PROJECT # 29350

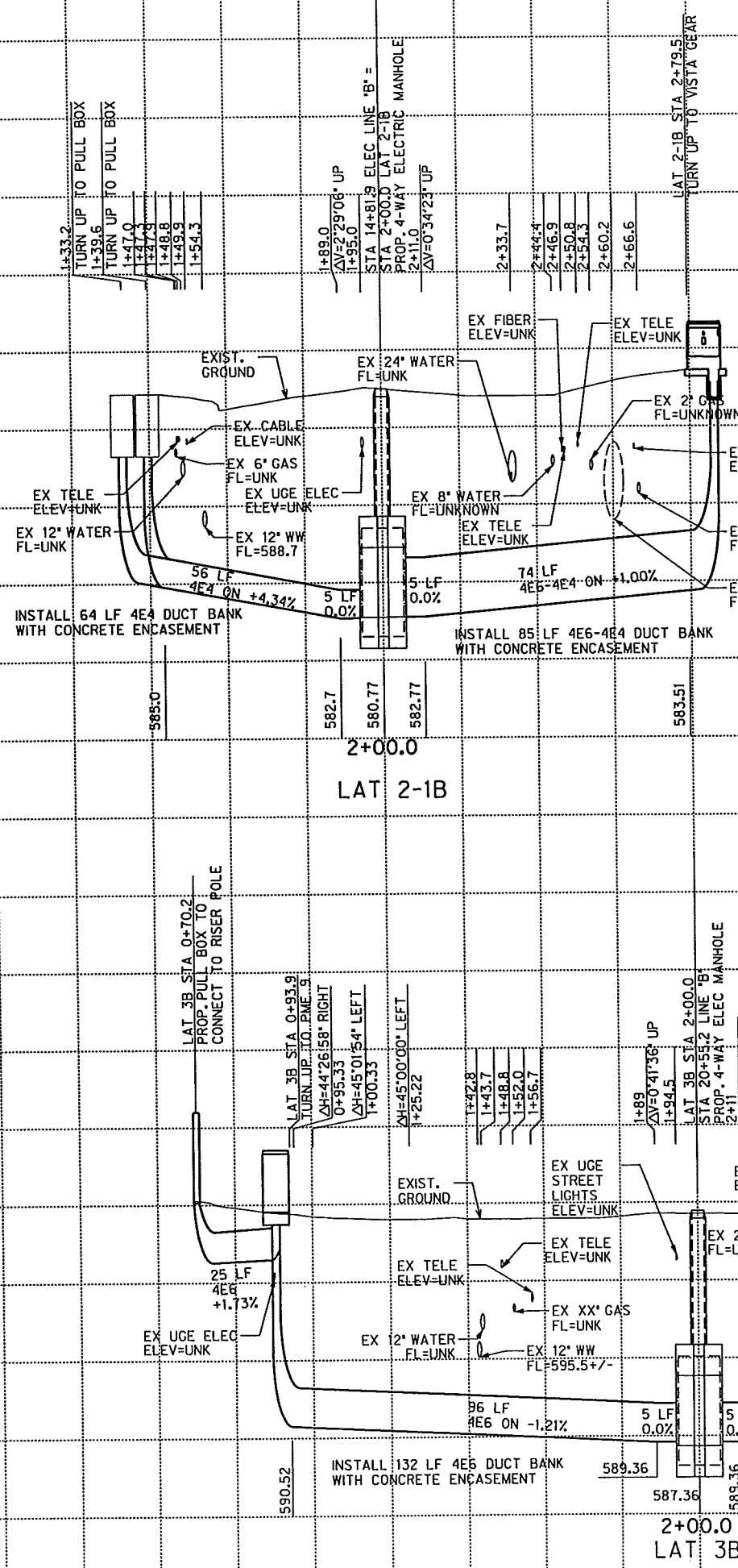
FILE: 29350 ELEC 17x.dgn

TIME: 11:24:27 AM

DATE: 12/19/2013

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SHEET 91 OF 235



Chl Moran P.E. 12-19-2013
 Signature of Registrant Date
 FIRM REGISTRATION NUMBER: 312

NO.	REVISION	BY	DATE

Addison TOWN OF ADDISON
 DALLAS COUNTY, TEXAS

BELT LINE ROAD
 UNDERGROUND ELECTRICAL

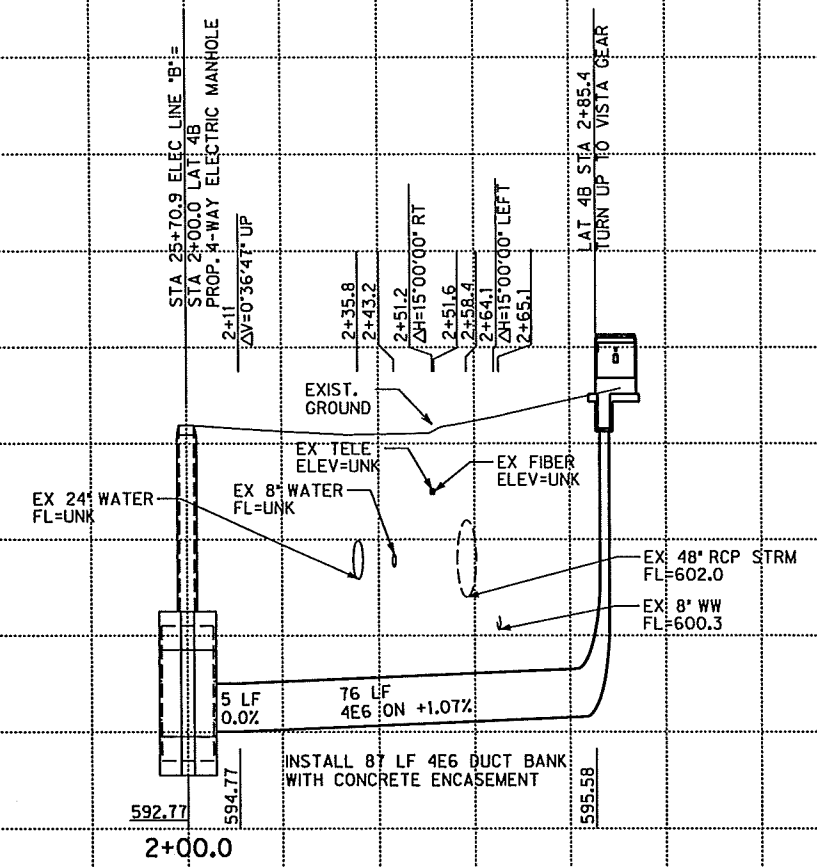
ONCOR DUCT BANK PROFILES
 LAT 2-1B, LAT 3B

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75061-2275
 TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 17x	ELE-17

DATE: 11/8/2013 TIME: 1:59:01 PM FILE: 29350 ELEC 18x.dgn PROJECT # 29350 OFFICE: RCH USER: gh1854

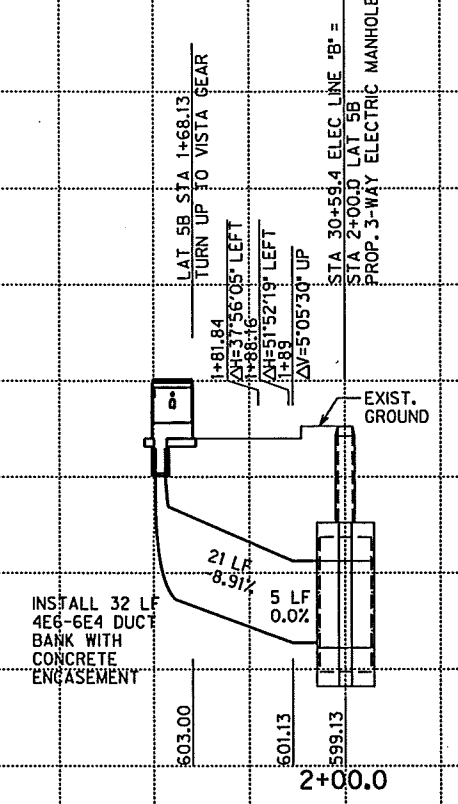
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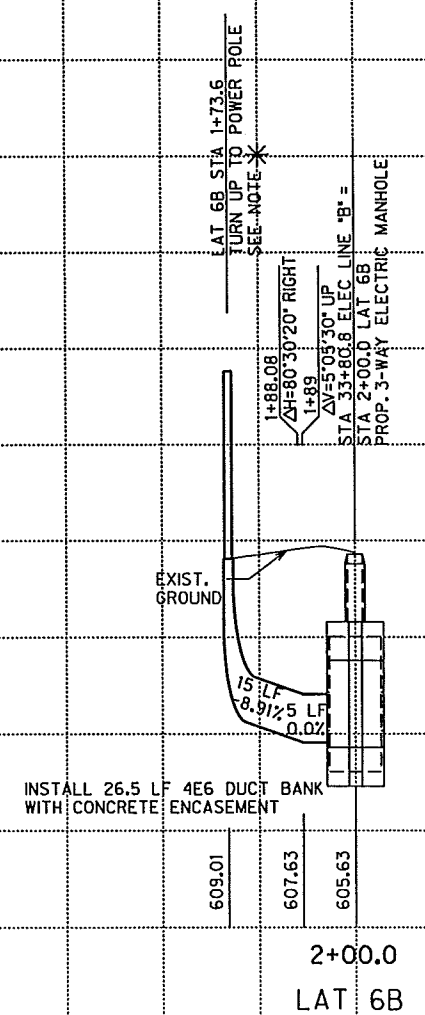
*NOTE
INSTALL CONDUIT TO PROP. POLE AND ATTACH RISER PER STANDARD DETAIL ON SHEET (ELE-26) (PROP. POLE BY OTHERS, COORDINATE SCHEDULING WITH ONCOR)

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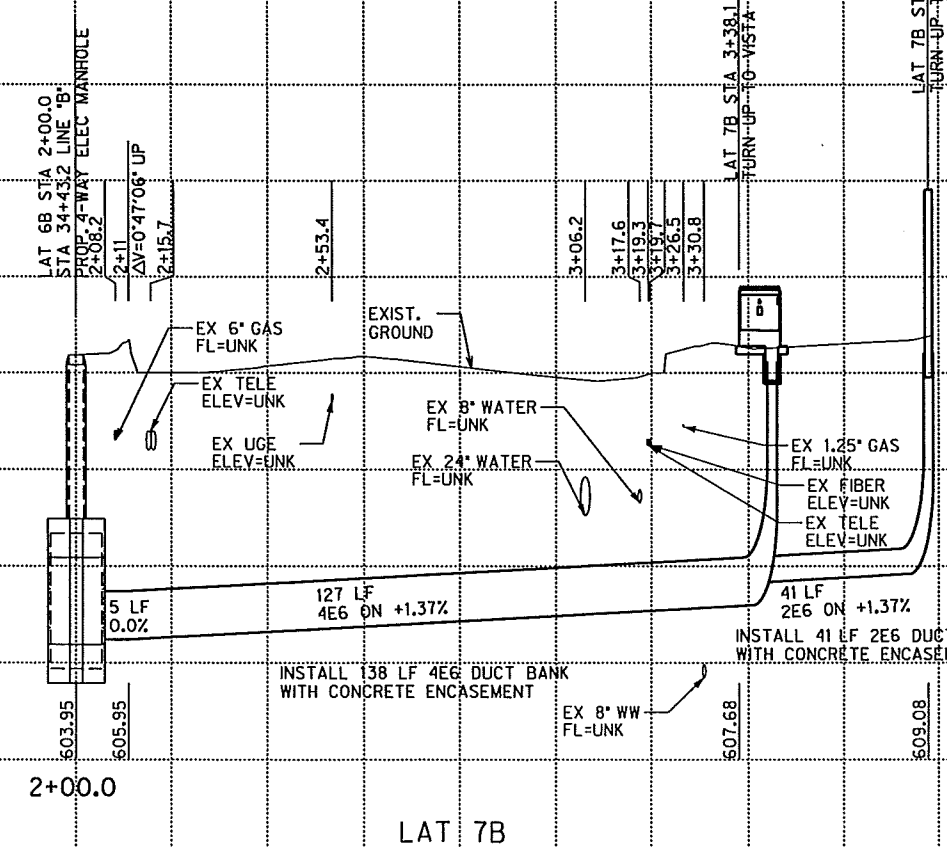
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Chad M. Brown, P.E. 11-8-2013
Signature of Registrant Date
FIRM REGISTRATION NUMBER: 312

HALFF 1201 NORTH BOWSER ROAD, RICHARDSON, TEXAS 75081-2275
TEL (214) 346-6200 FAX (214) 739-0095

PROJECT	DESIGN	DRAWN	DATE	FILE	SHEET
29350	HALFF	HALFF	NOV. 2013	29350 ELEC 18x	ELE-18