



# Memo

Date: Friday, February 28, 2020

Project: GPC6, C-2012668-02, Task Order #39 Dallas CBD Second Light Rail Alignment (D2 Subway)

To: Ernie Martinez, DART D2 Project Manager

From: Faisal Syed, PE, GPC6 D2 Utility Lead  
Hasan Raza, PE, GPC6 D2 Utility Engineer

DRAFT Technical Memorandum #16

Subject: Utility Conflicts at Portals and Underground Stations

This technical memorandum provides a review of existing utilities along the D2 alignment and identifies conflicts in the cut & cover, portal and underground station areas.

There are existing underground public and franchise utilities along the Commerce alignment. These utilities are included in the 'Existing Utility Composite', which is prepared using Geographic Information systems (GIS) data and record drawings, obtained from public and private utility owners. The coordination efforts summary to collect these record drawings and GIS data is included in this memorandum.

The public utilities include water, and wastewater utilities only, whereas private utilities include but not limited to electric, telecom, fiber optic and gas utilities. The storm sewer utilities are not included in this memorandum. These utilities would need to be rerouted or relocated as a part of D2 subway construction. It is imperative to identify and address all critical utility conflicts to avoid unscheduled delays during detailed design and construction. The observed public and franchise utilities conflicts in the cut & cover areas and at underground stations, are listed in this memorandum. The limits of the cut & cover areas and of underground stations are in accordance with D2 20% Commerce Alignment Exhibit.



<b>WATER UTILITIES IN CONFLICT</b>				
<b>APPROX. STATION</b>			<b>REFERENCE</b>	<b>WTR SIZE</b>
<b>AT</b>	<b>FROM (*)</b>	<b>TO (*)</b>		
<b>'MUSEUM WAY STATION LIMITS (28+00.00 - 32+20.00)</b>				
29+90.00			411Q-1910 SHT 21 (1974)	12-INCH
<b>'FIRST PORTAL AND CUT AND COVER LIMITS // METRO CENTER STATION (35+30.00 - 54+20.00)</b>				
35+35.00			411Q-1910 SHT 21 (1974)	10-INCH
38+25.00			UNK	4-INCH
40+70.00			UNK	8-INCH
42+95.00			411Q-0350 SHT52 (2002)	8-INCH
45+18.00			J-50	8-INCH
	47+00.00	48+50.00	411Q-1599C SH 21 (1975)	18-INCH
48+00.00			411Q 1599C SH 155 (2014)	12-INCH
49+15.00			685W 0577 SH 001 (1959)	8-INCH
	51+00.00	54+00.00	411Q-1599 SHT 99, (1980)	20-INCH
51+10.00			411Q-5050 SHT 07 (1996)	12-inch
51+95.00			411Q-5050 SHT 07 (1996)	20-INCH
54+05.00			411Q-1599C SHT 15	12-INCH
<b>'COMMERCE STATION LIMITS (68+00.00 - 76+00.00)</b>				
	68+00.00	76+00.00	411Q-3037 (2011)	12-INCH
<b>SECOND PORTAL AND CUT AND COVER LIMITS // CBD EAST STATION (86+00.00 - 107+80.00)</b>				
	86+00.00	90+00.00	411Q-5000 SHT 139 (2000)	12-INCH
	86+00.00	91+00.00	411Q-1599 SHT 12 (1951)	6-INCH
93+67.00			685W-309 SHT 19 (1950)	6-INCH
93+80.00			411Q-1599C SHT 12	12-INCH
96+75.00			W309 P 117 (UNK.)	12-INCH
100+00.00			411Q-1599CJ SHT5&13 (2011)	16-INCH
100+35.00			FB 77 PG 17 (1949)	30-INCH
<b>'LIVE OAK STATION (12+40.00 - 16+50.00)</b>				
	12+40.00	16+50.00	411Q-3020 SHT 7 (2005)	16-INCH
15+05.00			411Q-3020 SHT 21 (2005)	8-INCH

Table 1 - Potential Water Utility Conflicts

**FROM (\*) / TO (\*)** Station limits noted only for utilities with conflict when running along alignment.



<b>WASTEWATER UTILITIES IN CONFLICT</b>				
<b>APPROX. STATION</b>			<b>REFERENCE</b>	<b>WW SIZE</b>
<b>AT</b>	<b>FROM (*)</b>	<b>TO (*)</b>		
<b>MUSEUM WAY STATION LIMITS (28+00.00 - 32+20.00)</b>				
	28+20.00	32+20.00	411Q-1599E SHT 16 (2009)	36-INCH
	28+20.00	32+20.00	411Q-0051 SHT 71-71A (1999)	8-INCH
29+90.00			411Q-1910 SHT 21 (1974)	6-INCH
<b>'FIRST PORTAL AND CUT AND COVER LIMITS // METRO CENTER STATION (35+30.00 - 54+20.00)</b>				
35+20.00			411Q-0329 SHT 1 (1931)	6-INCH
38+35.00			411Q-2001 SH 334 (1996)	8-INCH
43+10.00			411Q-5000 SH 130 (2000)	12-INCH
45+35.00			CBK 2339 PG 66	6-INCH
	47+26.00	48+00.00	411Q-1599 SH 29 (1962)	10-INCH
48+07.00			411Q-1599C SH 155 (2014)	8-INCH
51+56.00			685W-577 SHT 01	21-INCH
54+16.00			411Q-1599C SHT 15	15-INCH
<b>COMMERCE STATION LIMITS (68+00.00 – 76+00.00)</b>				
	69+80.00	74+00.00	411Q3037 SHT 80&82 (2010)	12-INCH
	69+80.00	74+00.00	411Q-3037 SH 83A-D (2011)	24-INCH
<b>SECOND PORTAL AND CUT AND COVER LIMITS // CBD EAST STATION (86+00.00 - 107+80.00)</b>				
	86+00.00	88+00.00	411Q-1599 SHT 9-12 (1951)	18-INCH
	86+00.00	90+50.00	411Q-5000 SHT 138 (2000)	12-INCH
	91+50.00	92+40.00	UNK.	8-INCH
92+20.00			1-269	6-INCH
95+35.00			411Q-51 SHT 71B (1999)	8-INCH
96+90.00			UNK.	6-INCH
100+60.00			411Q-1599J SHT 3 (2011)	12-INCH
100+85.00			411Q-1599J SHT 3&4 (2011)	16-INCH
<b>LIVE OAK STATION (12+40.00 - 16+50.00)</b>				
14+00.00			UNK.	6-INCH

**FROM (\*) / TO (\*)** Station limits noted only for utilities with conflict when running along alignment.

Table 2 - Potential Wastewater Utility Conflicts



<b>FRANCHISE UTILITIES IN CONFLICT</b>				
<b>APPROX. STATION</b>			<b>OWNER / UTILITY</b>	<b>SIZE OF CONDUIT/PIPE</b>
<b>AT</b>	<b>FROM (*)</b>	<b>TO (*)</b>		
<b>MUSEUM WAY STATION LIMITS (28+00.00 - 32+20.00)</b>				
28+10.00			ONCOR / UG ELEC.	
28+15.00			TELECOM CABLE	UNK.
28+15.00			ATMOS / GAS	2-INCH
30+73.00			TELECOM CABLE	UNK.
31+80.00			ONCOR / UG ELEC.	
31+95.00			TELECOM CABLE	UNK.
32+05.00			ATMOS / GAS	6-INCH
32+10.00			TELECOM CABLE	UNK.
<b>FIRST PORTAL, CUT &amp; COVER LIMITS // METRO CENTER STATION (35+30.00 - 54+20.00)</b>				
35+20.00			TELECOM CABLE	UNK.
35+25.00			ONCOR / UG ELEC.	
38+30.00			ONCOR / UG ELEC.	4-INCH
38+30.00			TELECOM CABLE	UNK.
38+42.00			TELECOM CABLE	UNK.
38+42.00			ATMOS / GAS	8-INCH
38+66.00			ONCOR / UG ELEC.	4-FT
40+76.00			ONCOR / UG ELEC.	2-FT
43+10.00			ATMOS / GAS	UNK.
45+14.00			ONCOR / UG ELEC.	4-FT
45+24.00			TELECOM CABLE	UNK.
45+39.00			TELECOM CABLE	UNK.
45+60.00			ATMOS / GAS	8-INCH
	46+05.00	46+50.00	TELECOM CABLE	UNK.
	46+70.00	48+00.00	TELECOM CABLE	UNK.
	47+16.00	48+40.00	ONCOR / UG ELEC.	2-FT
	47+57.00	49+00.00	ATMOS / GAS	8-INCH
47+95.00			TELECOM CABLE	UNK.
48+14.00			ONCOR / UG ELEC.	1-FT
48+38.00			ATMOS / GAS	16-INCH
48+97.00			ONCOR / UG ELEC.	4-FT
50+00.00			ONCOR / UG ELEC.	8-FT
50+96.00			ATMOS / GAS	16-INCH
51+00.00			ONCOR / UG ELEC.	UNK.
	51+26.00	52+30.00	ONCOR / UG ELEC.	UNK.
	51+26.00	53+00.00	TELECOM CABLE	UNK.
51+58.00			TELECOM CABLE	UNK.
51+75.00			ONCOR / UG ELEC.	UNK.
	51+00.00	53+85.00	ATMOS / GAS	16-INCH



<b>FRANCHISE UTILITIES IN CONFLICT</b>				
<b>APPROX. STATION</b>			<b>OWNER / UTILITY</b>	<b>SIZE OF CONDUIT/PIPE</b>
<b>AT</b>	<b>FROM (*)</b>	<b>TO (*)</b>		
53+05.00			ONCOR / UG ELEC.	4-FT
	53+05.00	54+20.00	ONCOR / UG ELEC.	1-FT
53+92.00			TELECOM CABLE	UNK.
54+22.00			TELECOM CABLE	UNK.
54+38.00			ATMOS / GAS	6-INCH
<b>COMMERCE STATION LIMITS (68+00.00 - 76+00.00)</b>				
68+00.00			ONCOR / UG ELEC.	
	68+00.00	76+00.00	ONCOR / UG ELEC.	3-FT
	68+00.00	76+00.00	ATMOS / GAS	6-INCH
	68+00.00	76+00.00	ATMOS / GAS	6 & 10-INCH
69+00.00			TELECOM CABLE	UNK.
70+31.00			ONCOR / UG ELEC.	
71+43.00			ONCOR / UG ELEC.	1.5-FT
71+62.00			ATMOS / GAS	UNK.
72+73.00			ONCOR / UG ELEC.	3-FT
73+09.00			ONCOR / UG ELEC.	1-FT
73+88.00			ONCOR / UG ELEC.	2.5-FT
74+15.00			ONCOR / UG ELEC.	3-FT
75+20.00			ONCOR / UG ELEC.	3-FT
<b>SECOND PORTAL AND CUT AND COVER LIMITS // CBD EAST STATION (86+00.00 - 107+80.00)</b>				
86+00.00			TELECOM CABLE	UNK.
	86+00.00	89+00.00	TELECOM CABLE	UNK.
86+10.00			ATMOS / GAS	6-INCH
	86+00.00	90+20.00	ATMOS / GAS	6-INCH
	86+00.00	90+40.00	ONCOR / UG ELEC.	
87+33.00			ONCOR / UG ELEC.	
87+61.00			ONCOR / UG ELEC.	
88+65.00			ONCOR / UG ELEC.	
	91+25.00	91+40.00	TELECOM CABLE	UNK.
	91+30.00	91+50.00	ATMOS / GAS	4-INCH
	91+90.00	92+00.00	ONCOR / UG ELEC.	
93+65.00			ONCOR / UG ELEC.	
93+85.00			TELECOM CABLE	UNK.
94+00.00			ATMOS / GAS	4-INCH
94+10.00			TELECOM CABLE	UNK.
96+65.00			ATMOS / GAS	6-INCH
97+00.00			ONCOR / UG ELEC.	



FRANCHISE UTILITIES IN CONFLICT				
	99+40.00	100+30.00	ONCOR / UG ELEC.	
	99+90.00	101+00.00	ATMOS / GAS	10-INCH
100+15.00			TELECOM CABLE	UNK.
100+20.00			TELECOM CABLE	UNK.
100+90.00			ATMOS / GAS	16-INCH
100+90.00			TELECOM CABLE	
	100+60.00	102+50.00	TELECOM CABLE	
<b>LIVE OAK STATION (12+40.00 - 16+0.00)</b>				
100+90.00			TELECOM CABLE	

**FROM (\*) / TO (\*)** Station limits noted only for utilities with conflict when running along alignment.

**Table 3 - Potential Franchise Utility Conflicts**



Utility/Contact Person	Contact Info	Status	First Contact Date	Final Response Date	Description
<b>ONCOR</b>					
Keith Williams   New Construction Manager Sr. 4530 Greenville Ave. Dallas, Texas 75206	<a href="mailto:Keith.Williams@oncor.com">Keith.Williams@oncor.com</a>	Pending	10/16/2018	10/16/2018	Meeting held in UFG office with Keith & Enloe from Oncor. Waiting on as-builts
	O: 817-215-6678   c: 972-816-7039		1/28/2019	1/28/2019	Received plans
	<a href="mailto:Terence.Enloe@oncor.com">Terence.Enloe@oncor.com</a>	Complete	3/28/2019	3/28/2019	Sent email for further as-builts (revised alignment) to Oncor
			4/15/2019	4/15/2019	Received as-builts in email from Enloe
			1/21/2020	Pending	Keith/Enloe mentioned providing further as-builts (pending)
<b>ATMOS</b>					
Stan Breckenridge Arlington, TX 76001	<a href="mailto:stan.breckenridge@atmosenergy.com">stan.breckenridge@atmosenergy.com</a>	Complete	11/6/2018	11/6/2018	Received keymap
	o: 469-261-2014				
<b>AT&amp;T</b>					
Peter Russell/Robert Aldape AT&T Texas 2513 W E Roberts St, Rm 213.26 Grand Prairie, TX 75051	<a href="mailto:pr7004@att.com">pr7004@att.com</a>	Complete	no response received from AT&T		Utilizing information received from AT&T (Robert Aldape) in 2015
	o: 972-649-8749   c: 469-215-0541		1/21/2020	2/7/2020	Robert sent more as-builts after DART Util. Coordtn Mtg at DART Office on 01/21/2020. (to be included post 20%)
	<a href="mailto:ra8642@att.com">ra8642@att.com</a>				
<b>CENUTRYLINK</b>					
Scott Whaley 12001 N. Central Expwy, Ste 900, Dallas, Texas 75243	<a href="mailto:scott.whaley@centurylink.com">scott.whaley@centurylink.com</a>	Complete	11/8/2018	11/15/2018	Overview of Facilities (keymap) received.
	o: 214-302-0254   c: 214-929-5553				
<b>Level 3</b>					
Roger Underwood 3180 Irving Blvd, Dallas, Texas 75247	<a href="mailto:roger.underwood@level3.com">roger.underwood@level3.com</a>	Complete	11/8/2018	11/15/2018	Level 3 is now Century Link
	o: 214-443-2702   c: 214-621-6097				
<b>Sprint</b>					
James Stuart 1616 Maryland Rd, Irving, Texas 75061	<a href="mailto:james.stuart@sprint.com">james.stuart@sprint.com</a>	Complete	11/8/2018	11/29/2018	Response Received. No facilities east of IH35.
	c: 214-289-5105				
<b>TWC Charter</b>					
Jorge Barrera 1565 Chenault St., Dallas, Texas 75228	<a href="mailto:jorge.barrera@charter.com">jorge.barrera@charter.com</a>	Complete	11/8/2018	11/13/2018	Received keymap
	o: 214-320-5443   c: 214-869-7563				
<b>Verizon</b>					
Jeff Buehler Engineer IV	<a href="mailto:jeff.buehler@verizon.com">jeff.buehler@verizon.com</a>	Complete	11/8/2018	11/30/2018	Received keymap
	o: 972-729-6404   c: 214-995-2518		12/9/2019	12/10/2019	Inquired for updated keymap and received.
<b>DWU</b>					
Dallas Water Utilities/Relocations 2121 Main St., Ste 500, Dallas, TX 75201		Complete	6/18/2018	8/7/2018	Collected As-builts in person from Main St
			3/18/2019	3/18/2019	Sent email for further as-builts (revised alignment) & received as-builts