

MINUTES OF BOARD OF DIRECTORS MEETING
MARCH 4, 2023

THE STATE OF TEXAS
COUNTY OF HARRIS
HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 109

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The Board of Directors (the “*Board*”) of Harris County Municipal Utility District No. 109 (the “*District*”) met in special session, open to the public, at the Atascocita Waste Water Treatment Plant, 5003 Atascocita Road, Humble, Texas 77346, on March 4, 2023, at 1:00 p.m.; whereupon the roll was called of the Board, to-wit:

Owen H. Parker, President
Chris Green, Vice President
Cheryl Moore, Secretary
Robin Sulpizio, Assistant Secretary
Nancy A. Frank, Assistant Secretary

All members of the Board were present. Also attending all or parts of the meeting were Mr. Bill Kotlan of BGE, Inc. (“BGE”), engineer for the District; and Mr. Dimitri Millas, of Norton Rose Fulbright US LLP (“NRF”), attorneys for the District (via phone).

Call to Order. President Parker called the meeting to order in accordance with notice posted pursuant to law, copies of certificates of posting of which are attached hereto as *Exhibit A*, and the following business was transacted:

1. **Public Comments.** There were no public comments.
2. **Approve change order related to FM 1960 widening from Gulf Coast, and such other matters as may properly come before the Board.** President Parker recognized Mr. Kotlan, who presented to and reviewed with the Board the change order request from Gulf Coast, a copy of which is attached hereto as *Exhibit B*. He stated that the total price for the change order was \$539,618.10 and that it was for a 12” line that will be installed by Gulf Coast. He noted that there was a mistake on the original drawing that will be corrected and that BGE will compensate the District for the cost of such mistake after BGE receives notification from its insurance carrier for the amount of the mistake to be borne by the insurance carrier. He stated that this will show as a reduction to the change order amount that the District is responsible for and that the amount is yet to be determined.

Upon motion by Director Frank, seconded by Director Sulpizio, after full discussion and the question being put to the Board, the Board voted unanimously to approve the change order request.

THERE BEING NO FURTHER BUSINESS TO COME BEFORE THE BOARD, the meeting was adjourned.

* * *

The above and foregoing minutes were passed and approved by the Board of Directors on March 21, 2023.



President, Board of Directors

ATTEST:



Secretary, Board of Directors

(DISTRICT SEAL)

HARRIS COUNTY MUNICIPAL UTILITY DISTRICT NO. 109

NOTICE

In accordance with chapter 551, Texas Government Code and Section 49.063, Texas Water Code, both as amended, take notice that the Board of Directors of Harris County Municipal Utility District No. 109 will meet in special session, open to the public, at the **Atascocita Waste Water Treatment Plant, 5003 Atascocita Road, Humble, Texas 77346**, at **1:00 p.m. on Saturday, March 4, 2023**. At such meeting, the Board will consider and act on the following matters:

1. Public comments;
2. Approve change order related to FM 1960 widening from Gulf Coast; and such other matters as may properly come before the Board.



Norton Rose Fulbright US LLP
Attorneys for District

Exhibit A

If, during the course of the meeting covered by this Notice, the Board should determine that a closed or executive session of the Board should be held or is required in relation to any agenda item included in this Notice, then such closed or executive meeting or session, as authorized by the Texas Open Meetings Act, will be held by the Board at the date, hour, and place given in this Notice concerning any and all subjects for any and all purposes permitted by Sections 551.071-551.084 of the Texas Government Code and the Texas Open Meetings Act, including, but not limited to, Section 551.071 - for the purpose of a private consultation with the Board's attorney on any or all subjects or matters authorized by law.

Persons with disabilities who plan to attend this meeting and would like to request auxiliary aids or services are requested to contact the District's paralegal at (713) 651-5589 at least three business days prior to the meeting so that appropriate arrangements can be made.

Jane Maher

From: Russell Lambert <russ@texasnetwork.com>
Sent: Wednesday, March 1, 2023 10:13 AM
To: Jane Maher
Cc: The Texas Network; Solana Morton
Subject: RE: 109 Special Agenda Posting - Rush

Posted.

<https://www.waterdistrict109.com/meetings/index.html>

From: Jane Maher <jane.maher@nortonrosefulbright.com>
Sent: Wednesday, March 1, 2023 10:09 AM
To: Russell Lambert <russ@texasnetwork.com>
Cc: The Texas Network <support@texasnetwork.com>; Solana Morton <solana.morton@nortonrosefulbright.com>
Subject: 109 Special Agenda Posting - Rush
Importance: High

Hi Russ,

Please post the attached agenda to 109's website before noon today and return the COP at your earliest convenience.

Thanks,

Jane Maher | Senior Paralegal
Norton Rose Fulbright US LLP
1301 McKinney, Suite 5100, Houston, Texas 77010-3095, United States
Tel +1 713 651 5589 | Fax +1 713 651 5246
jane.maher@nortonrosefulbright.com

NORTON ROSE FULBRIGHT

Law around the world
nortonrosefulbright.com

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CHANGE ORDER REQUEST

(one form per change order)

To process a change order, contractor must complete a narrative to justify reimbursement, complete the following table(s)

Contractor: Gulf Coast
 Control: 1685-03-058
 Highway: FM 1960 (West Section)
 County: Harris
 Subject: Mud 109 Revised WL

CO DIRECTED BY	
TXDOT	Yes
Contractor	Yes
Other	
Backup Docs	Yes No

NARRATIVE

Gulf Coast completed the installation of the proposed Mud 109 WL "A" between 2709+04 to 2739+62 and was preparing to make the required waterline connections when it was discovered that the existing 8" waterline at the tie in had been abandoned and was no longer in service. This was discovered by the operator for Mud 109 who informed Gulf Coast that the 8" line had previously been abandoned and replaced with a 12" due to lack of capacity needed for the Bella Woods East subdivision. Gulf Coast was informed that this was an oversight on the engineering firm who designed the Mud 109 plan set and that the 8" waterline that had been installed between 2723+89 to 2739+62 would need to be removed and replaced with the required 12" size. A revised set of plans was provided to Gulf Coast referencing the changes made to the waterline. Gulf Coast reviewed the plans and determined that current unit pricing for the installation of the 12" waterline was no longer valid. As there is no original quantity/item for removal of the waterline, a CO would be required for this work. This is because all but 127 LF of the proposed 12" waterline quantity had been installed to date and would require that new materials be purchased for this work along with slower production rates as the previously installed waterline and waterline entities would need to be removed and replaced. There is also the current escalation on labor, equipment and materials associated with the time lapse between bid time and the time the issue arose. Gulf Coast is requesting that two new items be implemented for this work utilizing at or less than the current ALB unit prices. The first item would be associated with the removal of the previously installed waterline and would utilize the current ALB pricing for this work. The second would add an additional item for 12" waterline to cover the extra quantity associated with the revision and would be under the current ALB unit price for the item. This is due to the ALB quantity for the 12" item being significantly less than the proposed quantity. However, as you will see in the attached Gulf Coast has referenced 3 separate 12" waterline items that are all comparable in scope and adjusted the unit price to reflect the proposed quantity more accurately.

Along with these revisions there are also two locations where the existing 12" Mud 109 waterline conflicts with the proposed storm and sewer trunklines along both the North and South ROW. Gulf Coast and BGE have reviewed this and determined that 2-40' offsets will be needed to eliminate these conflicts. For this reason an additional 80' of both the removal and install have been added to the attached.

Link to all of TxDOT 2004 and 2014 Bid Item Codes:

<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/usfe/2014/usfe0101.htm>
<http://www.dot.state.tx.us/insdot/orgchart/cmd/cserve/usfe/2004/usfe0101.htm>

TO ADD NEW ITEMS TO THE CONTRACT

LINE NO	ITEM NO	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
	7049 6014	WATER MAIN PIPE (PVC) (12IN) (C-900)	2532	LF	\$ 150.00	\$ 379,800.00
	7276 6066	ABANDON AND REMOVE EXISTING WATER LINE	2444	LF	\$ 50.00	\$ 122,200.00
	7049 6160	JCK TUN BOR OR AUG CSG (STL) (20IN)	95	LF	\$ 300.00	\$ 28,500.00

ADD Revised Plan Sheet(s) #:

TO ADJUST QUANTITY/PRICE OF AN ITEM ON THE CONTRACT

LINE NO	ITEM NO	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
	7049 6046 2	CASING STEEL (20IN)	95	LF	\$ 239.19	\$ 22,723.05
	7049 6185 2	CASING STEEL (16 IN)	-95	LF	\$ 143.21	\$ (13,604.95)
	7049 6068 2	JCK TUN BOR OR AUG CSG (STL) (16IN)	-95	LF	\$ 52.00	\$ (4,940.00)

Gulf Coast

CHANGE ORDER PRICING SUMMARY SHEET



Owner: <u>TXDOT</u>	Date: <u>2-Mar-23</u>
Project: <u>FM 1960</u>	Project No.: <u>282036</u>
Control: <u>1685-03-058</u>	Proposal No. <u>21</u>

SUMMARY

Cost Code	Description	Quantity	UOM	Unit Price	Total Price	days
New Items						
7049 6014	WATER MAIN PIPE (PVC) (12IN) (C-900)	2,532.00	LF	150.00	\$ 379,800.00	22.00
7276 6066	ABANDON AND REMOVE EXISTING WATER LINE	2,444.00	LF	50.00	\$ 122,200.00	0.00
7049 6160	JCK TUN BOR OR AUG CSG (STL) (20IN)	95.00	LF	300.00	\$ 28,500.00	0.00
						0.00
Existing Items						
7049 6046 2	CASING STEEL (20IN)	95.00	LF	239.19	\$ 22,723.05	0.00
7049 6185 2	CASING STEEL (16 IN)	(95.00)	LF	143.21	\$ (13,604.95)	0.00
7049 6068 2	JCK TUN BOR OR AUG CSG (STL) (16IN)	(95.00)	LF	52.00	\$ (4,940.00)	
				> TOTAL <	\$ 539,618.10	22

Gulf Coast
CHANGE ORDER PRICING BREAKDOWN



Owner: TXDOT	Date: 2-Mar-23
Project: FM 1960	Project No.: 282036
Control: 1685-03-058	Proposal No. 21

Subject: 7049 6014 WATER MAIN PIPE (PVC) (12IN) (C-900) 2532 - LF

Production Rate = **115** LF/Day
 Hours per Day = **10**
 Days Total = **22.00**

A. LABOR

Description	Days	Quantity	Rate	Reg Hours	OT Hours	Totals
WATER MAIN PIPE (PVC) (12IN) (C-900)						
Foreman	22.00	1	\$ 47.87	8		\$ 8,425.24
Lead Man	22.00	1	\$ 28.00	8	2	\$ 6,776.00
Laborer, Utility	22.00	2	\$ 19.00	8	2	\$ 9,196.00
Operator, Excavator	22.00	2	\$ 27.56	8	2	\$ 13,339.04
Operator, Loader	22.00	1	\$ 22.65	8	2	\$ 5,482.35
Operator, Roller Sheep	22.00	1	\$ 20.89	8	2	\$ 5,055.38
Base Labor Costs =						\$ 48,274.00
Labor Burden (Base Labor "Only")						\$ 26,550.70
						\$ 74,824.70
Profit & Compensation						\$ 18,706.18
Total Labor Costs =						\$ 93,530.88

B. EQUIPMENT

Description	Quantity	Rate	Hours	Totals
WATER MAIN PIPE (PVC) (12IN) (C-900)				
GMC/CHEVY 2500 On-Highway Light Duty Truck	2	\$ 29.42	220.00	\$ 6,472.40
BACKHOE JOHN DEERE 310SJ	1	\$ 90.08	110.00	\$ 9,908.80
Loader	1	\$ 100.88	220.00	\$ 22,193.60
Pad Foot Roller	1	\$ 131.66	110.00	\$ 14,482.60
Dozer	1	\$ 144.74	110.00	\$ 15,921.40
Excavator	2	\$ 183.74	220.00	\$ 40,422.80
Subtotal =				\$ 109,401.60
Profit & Compensation				\$ 16,410.24
Total Equipment Costs =				\$ 125,811.84

C. MATERIALS

Description	Unit	Quantity	Price	Totals
80LB Ready Mix Bags	BG	60	\$ 8.00	\$ 480.00
Ferguson - Waterline Materials	LS	1	\$ 110,614.28	\$ 110,614.28
4'x20' Trench Box	MO	2	\$ 1,291.85	\$ 2,583.70
Bank Sand	Ton	200	\$ 4.00	\$ 800.00
Subtotal =				\$ 114,477.98
Tax				EXEMPT
Profit & Compensation				\$ 28,619.50
Total Material Costs =				\$ 143,097.48

D. SUBCONTRACTOR/OTHER

Description	Unit	Quantity	Price	Totals
Blueprint Dump Trucks	HR	440	\$ 65.00	\$ 28,600.00
Subtotal =				\$ 28,600.00
Profit & Compensation				\$ 1,430.00
Total Subcontractor/Other Costs =				\$ 30,030.00

E. SUMMARY

A. LABOR	=	\$93,530.88
B. EQUIPMENT	=	\$125,811.84
C. MATERIALS	=	\$143,097.48
D. SUBCONTRACTOR/OTHER	=	\$30,030.00
Subtotal of all Costs	=	\$392,470.20
Bond Costs	=	\$3,924.70
Total Proposal Amount =		\$396,394.90

Cost Per Unit = **\$156.55 / LF**

Rental Rate Blue Book®
Caterpillar 336D2L

Crawler Mounted Hydraulic Excavators



Size Class:

72973 - 88404 lbs

Weight:

N/A
Configuration for 336D2L

 Horsepower
Power Mode

269.0 hp
Diesel

Operating Weight

81760.0 lbs
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$18,450.00	USD \$5,165.00	USD \$1,290.00	USD \$195.00	USD \$78.70	USD \$183.53
Adjustments						
Region (Texas: 100.2%)	USD \$36.90	USD \$10.33	USD \$2.58	USD \$0.39		
Model Year (2023: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$18,486.90	USD \$5,175.33	USD \$1,292.58	USD \$195.39	USD \$78.70	USD \$183.74

Non-Active Use Rates

 Standby Rate
Idling Rate

Hourly

 USD \$58.82
USD \$134.45

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	34%	USD \$6,273.00/mo
Overhaul (ownership)	44%	USD \$8,118.00/mo
CFC (ownership)	12%	USD \$2,214.00/mo
Indirect (ownership)	10%	USD \$1,845.00/mo
Fuel (operating) @ USD 5.14	37%	USD \$29.41/hr

Revised Date: 1st quarter 2023

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

 The equipment represented in this report has been exclusively prepared for KEVIN GUY
(keving@angelbrothers.com)

Rental Rate Blue Book®

February 3, 2023

Caterpillar 938K (disc. 2015)

4-Wd Articulated Wheel Loaders

 Size Class:
150 - 174 HP
 Weight:
35104 lbs

Configuration for 938K (disc. 2015)

Operator Protection

ROPS/FOPS

Power Mode

Diesel

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$10,415.00	USD \$2,915.00	USD \$730.00	USD \$110.00	USD \$41.47	USD \$100.65
Adjustments						
Region (Texas: 100.4%)	USD \$41.66	USD \$11.66	USD \$2.92	USD \$0.44		
Model Year (2015: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$10,456.66	USD \$2,926.66	USD \$732.92	USD \$110.44	USD \$41.47	USD \$100.88

Non-Active Use Rates

Hourly

Standby Rate

USD \$39.21

Idling Rate

USD \$72.14

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	40%	USD \$4,166.00/mo
Overhaul (ownership)	34%	USD \$3,541.10/mo
CFC (ownership)	14%	USD \$1,458.10/mo
Indirect (ownership)	12%	USD \$1,249.80/mo
Fuel (operating) @ USD 5.14	31%	USD \$12.73/hr

Revised Date: 1st quarter 2023

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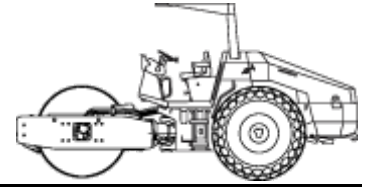
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Rental Rate Blue Book®

February 3, 2023

Caterpillar CP-323C (disc. 2008)

Single Drum Vibratory Compactors

 Size Class:
6614 - 11022 lbs
 Weight:
10440 lbs

Configuration for CP-323C (disc. 2008)

Drum Type	Padfoot	Drum Width	50.0 in
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$9,780.00	USD \$2,740.00	USD \$685.00	USD \$105.00	USD \$75.65	USD \$131.22
Adjustments						
Region (Texas: 100.8%)	USD \$78.24	USD \$21.92	USD \$5.48	USD \$0.84		
Model Year (2008: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$9,858.24	USD \$2,761.92	USD \$690.48	USD \$105.84	USD \$75.65	USD \$131.66

Non-Active Use Rates

	Hourly
Standby Rate	USD \$38.65
Idling Rate	USD \$68.04

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	34%	USD \$3,325.20/mo
Overhaul (ownership)	31%	USD \$3,031.80/mo
CFC (ownership)	19%	USD \$1,858.20/mo
Indirect (ownership)	16%	USD \$1,564.80/mo
Fuel (operating) @ USD 5.14	16%	USD \$12.03/hr

Revised Date: 1st quarter 2023

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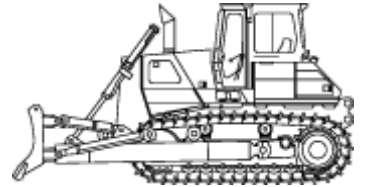
Rental Rate Blue Book®
Caterpillar D6H DS LGP SERIES II (disc. 1997)

Lgp Crawler Dozers

Size Class:

160 - 189 HP

Weight:

45415 lbs

Configuration for D6H DS LGP SERIES II (disc. 1997)

 Dozer Type
Power Mode

**Straight
Diesel**

Operator Protection

EROPS
Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$12,615.00	USD \$3,535.00	USD \$885.00	USD \$135.00	USD \$73.06	USD \$144.74
Adjustments						
Region (Texas: 100%)	-	-	-	-		
Model Year (1997: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$12,615.00	USD \$3,535.00	USD \$885.00	USD \$135.00	USD \$73.06	USD \$144.74

Non-Active Use Rates

 Standby Rate
Idling Rate

Hourly

 USD \$32.97
USD \$101.70

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	25%	USD \$3,153.75/mo
Overhaul (ownership)	54%	USD \$6,812.10/mo
CFC (ownership)	11%	USD \$1,387.65/mo
Indirect (ownership)	10%	USD \$1,261.50/mo
Fuel (operating) @ USD 5.14	41%	USD \$30.02/hr

Revised Date: 1st quarter 2023

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Rental Rate Blue Book®

February 3, 2023

Deere 310SL
 Tractor-Loader-Backhoes

 Size Class:
162 - 173 in
 Weight:
N/A

Configuration for 310SL

Drive	4WD	Operator Protection	EROPS
Power Mode	Diesel		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$8,690.00	USD \$2,435.00	USD \$610.00	USD \$92.00	USD \$40.66	USD \$90.04
Adjustments						
Region (Texas: 100.1%)	USD \$8.69	USD \$2.43	USD \$0.61	USD \$0.09		
Model Year (2023: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$8,698.69	USD \$2,437.44	USD \$610.61	USD \$92.09	USD \$40.66	USD \$90.08

Non-Active Use Rates

	Hourly
Standby Rate	USD \$26.69
Idling Rate	USD \$69.22

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	25%	USD \$2,172.50/mo
Overhaul (ownership)	46%	USD \$3,997.40/mo
CFC (ownership)	16%	USD \$1,390.40/mo
Indirect (ownership)	13%	USD \$1,129.70/mo
Fuel (operating) @ USD 5.14	49%	USD \$19.80/hr

Revised Date: 1st quarter 2023

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Rental Rate Blue Book®
GMC/CHEVY 2500

On-Highway Light Duty Trucks

 Size Class:
300 HP & Over
 Weight:
 N/A

Configuration for 2500

Axle Configuration	4.0 x 2.0	Cab Type	Crew
Horsepower	310.0 hp	Power Mode	Diesel
Ton Rating	3.0 / 4.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$1,050.00	USD \$295.00	USD \$74.00	USD \$11.00	USD \$23.39	USD \$29.36
Adjustments						
Region (Texas: 101%)	USD \$10.50	USD \$2.95	USD \$0.74	USD \$0.11		
Model Year (2023: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,060.50	USD \$297.95	USD \$74.74	USD \$11.11	USD \$23.39	USD \$29.42

Non-Active Use Rates

	Hourly
Standby Rate	USD \$4.64
Idling Rate	USD \$25.15

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	57%	USD \$598.50/mo
Overhaul (ownership)	23%	USD \$241.50/mo
CFC (ownership)	8%	USD \$84.00/mo
Indirect (ownership)	12%	USD \$126.00/mo
Fuel (operating) @ USD 5.14	82%	USD \$19.12/hr

Revised Date: 1st quarter 2023

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 (keving@angelbrothers.com)

WHITE CAP®

White Cap, L.P.
PO Box 4944, Orlando, FL 32802-4944

BRANCH ADDRESS
719 - HOUSTON
(281) 657-8900
2300 MCCARTY ST.
HOUSTON TX 77029
HARRIS

INVOICE

INVOICE NUMBER
50019448889
INVOICE DATE
08/17/2022
CUSTOMER PO NUMBER
PEND

ENROLLMENT TOKEN: KDV QZB ZBD

SOLD TO: 74993000

TERRITORY:
SHIP TO: 10003167287

PLEASE REMIT PAYMENT TO:
White Cap, L.P.
P.O. Box 4852
ORLANDO, FL 32802-4852

TEXAS MATERIALS GROUP
P O BOX 570
BAYTOWN TX 77522

2036 JOB FM1960
20550 TOWNSEN
HUMBLE TX 77338

ORDER DATE	ORDER NO.	ORDERED BY	ACCOUNT MANAGER	TAKEN BY
08/16/2022	48568742	JUAN FERNANDEZ	THOMPSON, MIKE	CORONA, ANGELA
BRANCH	ACCT JOB NO.	TERMS	SHIP VIA / ROUTING	CUSTOMER JOB NO.
719	10003167287	NET 30 DAYS	2. OUR TRUCK	2036 JOB FM1960

LINE	PART NUMBER	DESCRIPTION	QTY ORD	UNIT PRICE	QTY BKO	QTY SHP	EXTENDED PRICE	TAX AMT
0	HDRDESC	***** DELIVERY TAG#: 21657547 SHIPPING NOTES: DELIVERY WEDNESDAY 281-961-0326 NEED LIFT OR DUMP *****	1	0	0	1	0.00	
1	227MMTS80	80LB BAG TYPE S MASON MIX QUIKRETE	42	9.153 BAG	0	42	384.43	31.71
2	433CM804K	80LB 4000PSI AVERAGE COMPRESSIVE STRENGTH READY MIX CONCRETE	42	6.73 BAG	0	42	282.66	23.33
3	3393SYP21016	2"X10"X16' #3 SYP LUMBER	10	20.55 EA	0	10	205.50	16.96
4	22635141LG	14" BLACK PVC PULLOVER BOOT TINGLEY	2	24.29 EA	0	2	48.58	4.02

50.56501.0307
50.56501.0307
50.54000.0030
50.54000.0030

Job # 282036
Phase # See above.
Approved By JF

The White Cap Family of Brands includes All-Tex Waterproofing Solutions, Harmac, Kenseal, Marvel Building & Masonry Supply, MASONPRO, and Williams Equipment & Supply. Learn more at About.WhiteCap.com

THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED OR OTHERWISE DISPOSED OF TO ANY OTHER COUNTRY OR ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.

For questions regarding this invoice please call 1-866-857-0295.		TOTAL GROSS	921.17
NO REFUNDS OR EXCHANGES ON NON STOCK MERCHANDISE Visit https://www.whitecap.com/terms/terms-conditions-of-sale-terms to view complete terms and conditions.		TOTAL TAX	76.02
RECEIVED BY: DANIEL CLIMACO		TOTAL SHIPPING AND HANDLING	0.00
SIGNATURE COPY ON FILE		TOTAL INVOICE	997.19

Deliver To: From: Jeffrey Moreland Comments:

FERGUSON WATERWORKS #1105
 Price Quotation
 Phone: 713-675-2211
 Fax: 713-676-0803

Bid No: B490881
Bid Date: 08/26/22
Quoted By: MHD

Cust Phone: 281-421-5721
Terms: NET 45 DAYS

Customer: TEXAS MATERIALS GROUP INC
 DBA GULF COAST
 1320 ARROW POINT DR # 600
 CEDAR PARK, TX 78613

Ship To: TEXAS MATERIALS GROUP INC
 DBA GULF COAST
 1320 ARROW POINT DR # 600
 CEDAR PARK, TX 78613

Cust PO#:

Job Name: FM 1960 12" C/O

Item	Description	Quantity	Net Price	UM	Total
12" WATERLINE					
DR18BP12	12 C900 DR18 PVC GJ BLUE PIPE	794	51.610	FT	40978.34
DSCP25020FT	20 X .250 STL CASING PIPE	38	88.240	FT	3353.12
AC12202	12X20 PE CASING SPACER	8	88.290	EA	706.32
PMCES1220	12X20 MODEL C END SEAL	2	113.250	EA	226.50
SUBTOTAL					45264.28
WATERLINE FITTINGS					
DMJTLA12X	DOM 12X8 MJ C153 TEE L/A	2	609.900	EA	1219.80
DMJ4LA12	DOM 12 MJ C153 45 BEND L/A	8	496.850	EA	3974.80
DMJ2LA12	DOM 12 MJ C153 22-1/2 BEND L/A	2	421.800	EA	843.60
DMJRLA12X	DOM 12X8 MJ C153 RED L/A	2	353.400	EA	706.80
SPWPC12	12 SIGMA BELL REST F/ C900 *PVLOK	2	318.520	EA	637.04
E2012PEC	12 MEGALUG EBAASEAL ACCY PKG F/ PVC	26	200.490	EA	5212.74
E2008PEC	8 MEGALUG EBAASEAL ACCY PKG F/ PVC	4	112.150	EA	448.60
SUBTOTAL					13043.38
GATE VALVE					
AFC2512MMLAOR	12 DI MJ RW OR GATE VLV L/A	1	2907.050	EA	2907.05
SVBA	CI VLV BX W/ WTR LID HOUSTON	1	154.650	EA	154.65
E2012PEC	12 MEGALUG EBAASEAL ACCY PKG F/ PVC	2	200.490	EA	400.98
SUBTOTAL					3462.68
BLOWOFF					
FPP12M	12X3'0 FLGXPE CL BT DI SPL	1	1166.750	EA	1166.75
FPP12P	12X4'0 FLGXPE CL BT DI SPL	1	1396.850	EA	1396.85
DFT12U	DOM 12X6 DI 125# C110 FLG TEE	1	2023.500	EA	2023.50
TAPBFUK	6X2 DI C110 125# TAP BLND FLG	1	171.270	EA	171.27
FNWNBGZ1RF812	12 ZN 150# RR FF 1/8 FLG PKG	2	70.450	EA	140.90
FNWNBGZ1RF8U	6 ZN 150# RR FF 1/8 FLG SET	1	34.240	EA	34.24
DMJLSLA12	DOM 12X12 MJ C153 LONG SLV L/A	2	392.350	EA	784.70

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<https://survey.medallia.com/?bidsorder&fc=1105&on=43516>

Fax: 713-676-0803

22:51:14 OCT 06 2022

Reference No: B490881

Item	Description	Quantity	Net Price	UM	Total
E2012PEC	12 MEGALUG EBAASEAL ACCY PKG F/ PVC	4	200.490	EA	801.96
	SUBTOTAL				6520.17

	ARV				

FPP12M	12X3'0 FLGXPE CL BT DI SPL	2	1166.750	EA	2333.50
FPP12P	12X4'0 FLGXPE CL BT DI SPL	2	1396.850	EA	2793.70
DFT12U	DOM 12X6 DI 125# C110 FLG TEE	2	2023.500	EA	4047.00
TAPBFUG	6X1 DI C110 125# TAP BLND FLG	2	76.040	EA	152.08
FNWNBGZ1RF812	12 ZN 150# RR FF 1/8 FLG PKG	4	70.450	EA	281.80
FNWNBGZ1RF8U	6 ZN 150# RR FF 1/8 FLG SET	2	34.240	EA	68.48
DMJLSLA12	DOM 12X12 MJ C153 LONG SLV L/A	4	392.350	EA	1569.40
E2012PEC	12 MEGALUG EBAASEAL ACCY PKG F/ PVC	8	200.490	EA	1603.92
	SUBTOTAL				12849.88

	HYDRANTS				

AFCB84BTULAOLXHO	5-1/4 B84B HYD 8'0 OL 6 TJ HOUS L/A	1	3214.800	EA	3214.80
AFCB84BTULAOLW	5 1/4 B84B HYD 7'0 OL 6 TJ HOUS L/A	2	3088.840	EA	6177.68
AFCB84BTULAOLU	5-1/4 B84B HYD 6'0 OL 6 TJ HOUS L/A	1	2962.880	EA	2962.88
DMJTLA12U	DOM 12X6 MJ C153 TEE L/A	4	577.600	EA	2310.40
E2012PEC	12 MEGALUG EBAASEAL ACCY PKG F/ PVC	8	200.490	EA	1603.92
E2006PEC	6 MEGALUG EBAASEAL ACCY PKG F/ PVC	4	83.740	EA	334.96
	SUBTOTAL				16604.64

	WATER SERVICE				

S31500143214000	12X2 IP SGL SDL 12.62-14.32	2	96.430	EA	192.86
FFB11007NL	LF 2 MIP X CTS PJ BALL CORP	2	365.760	EA	731.52
FB44777NL	LF 2 CTS X CTS PJ BALL CURB VLV	2	519.450	EA	1038.90
KSOFTK60	2X60 K SOFT COP TUBE	98	2526.320	C	2475.79
	SUBTOTAL				4439.07

	TOTAL				102184.10

Net Total: \$102184.10
Tax: \$8430.18
Freight: \$0.00
Total: \$110614.28

Quoted prices are based upon receipt of the total quantity for immediate shipment (48 hours). SHIPMENTS BEYOND 48 HOURS SHALL BE AT THE PRICE IN EFFECT AT TIME OF SHIPMENT UNLESS NOTED OTHERWISE. QUOTES FOR PRODUCTS SHIPPED FOR RESALE ARE NOT FIRM UNLESS NOTED OTHERWISE.

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Seller not responsible for delays, lack of product or increase of pricing due to causes beyond our control, and/or based upon Local, State and Federal laws governing type of products that can be sold or put into commerce. This Quote is offered contingent upon the Buyer's acceptance of Seller's terms and conditions, which are incorporated by reference and found either following this document, or on the web at <https://www.ferguson.com/content/website-info/terms-of-sale>
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	----- SUBTOTAL				6520.17

	ARV				

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Fax: 713-676-0803

12:05:00 AUG 30 2022

Reference No: B490881

Item	Description	Quantity	Net Price	UM	Total
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DFT12U	DOM 12X6 DI 125# C110 FLG TEE	2	2023.500	EA	4047.00
TAPBFUG	6X1 DI C110 125# TAP BLND FLG	2	76.040	EA	152.08
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KSOFTK60	2X60 K SOFT COP TUBE	98	2526.320	C	2475.79
	SUBTOTAL				4439.07

	TOTAL				97898.16

Net Total: \$97898.16
Tax: \$8076.59
Freight: \$0.00
Total: \$105974.75

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Rental Rate Blue Book®

GMC/CHEVY W3S042

On-Highway Light Duty Trucks

Size Class:
100 - 199 HP
 Weight:
N/A



Configuration for W3S042

Axle Configuration	4.0 x 2.0	Cab Type	Crew
Horsepower	142.0 hp	Power Mode	Diesel
Ton Rating	1.0		

Blue Book Rates

** FHWA Rate is equal to the monthly ownership cost divided by 176 plus the hourly estimated operating cost.

	Ownership Costs				Estimated Operating Costs Hourly	FHWA Rate** Hourly
	Monthly	Weekly	Daily	Hourly		
Published Rates	USD \$1,045.00	USD \$295.00	USD \$74.00	USD \$11.00	USD \$9.15	USD \$15.09
Adjustments						
Region (Texas: 99.3%)	(USD \$7.32)	(USD \$2.07)	(USD \$0.52)	(USD \$0.08)		
Model Year (2022: 100%)	-	-	-	-		
Adjusted Hourly Ownership Cost (100%)	-	-	-	-		
Hourly Operating Cost (100%)					-	
Total:	USD \$1,037.69	USD \$292.93	USD \$73.48	USD \$10.92	USD \$9.15	USD \$15.05

Non-Active Use Rates

Standby Rate	USD \$4.48
Idling Rate	USD \$12.12

Rate Element Allocation

Element	Percentage	Value
Depreciation (ownership)	60%	USD \$627.00/mo
Overhaul (ownership)	24%	USD \$250.80/mo
CFC (ownership)	3%	USD \$31.35/mo
Indirect (ownership)	13%	USD \$135.85/mo
Fuel (operating) @ USD 3.65	68%	USD \$6.22/hr

Revised Date: 1st quarter 2022

These are the most accurate rates for the selected Revision Date(s). However, due to more frequent online updates, these rates may not match Rental Rate Blue Book Print. Visit the Cost Recovery Product Guide on our Help page for more information.

The equipment represented in this report has been exclusively prepared for KEVIN GUY (keving@angelbrothers.com)

Servicing Branch:
 NTS Houston South
 Houston, TX 77705
 Ph: 713-991-9800
 Fax:



RENTAL QUOTE

Date Issued: 8/30/2022

Quotation Provided To:

Gulf Coast

Project Information:

FM 1960

Projected Start Date: 8/31/2022

Contact Information:

Juan Perales
 Ph: 832-830-2368
 Fax:
 Email: juan.perales@gc-texas.com

Quantity	Item #	Item Description	Each			Extended		
			Day	Week	4 Week	Day	Week	4 Week
1.00		4'x20' Trench Box (Must be 4" wall)	104.65	313.95	941.85	104.65	313.95	941.85
4.00		4' Spreaders				0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
						0.00	0.00	0.00
Subtotal						104.65	313.95	941.85

Standard Notes

- No rental purchase options are granted.
- Quote is valid 15 days from the date of issue.
- Unless otherwise stated this quote does not contain sales and or other local taxes. Sales tax shall be determined at the time of sale in accordance with applicable laws and regulations.
- Special ordered items, custom designed items, custom fabricated items and rush items not normally stocked by NTS may not be cancelled and or returned. All sales will be final upon acceptance of this quote.

Non-Rental Charges

Pick-up	175.00
Delivery	175.00
Engineering	
Other	

Notes	Quote Provided By
As of 2-1-2022 There will be a 15% Fuel Surcharge Added to Delivery Fee.	MICHAEL WOOTEN, OUTSIDE SALES Email: MICHAELWOOTEN@NTSAFETY.COM Cell: 409-926-2231

My signature below acknowledges acceptance of this quotation as well as the associated terms and that I am authorized to sign this agreement on behalf of my company.

 Signature Printed Name Title Date Purchase Order

LOCATION	# 162 6002	# 166 6001	# 168 6001	# 402 6001	7049 6017	7049 6068	7049 6076	7049 6077	7049 6104	7049 6115	7049 6116	7049 6119	7049 6127	7049 6129	7049 6140	7049 6142	7049 6185	7049 6200
	BLOCK SODDING	FERTILIZER	VEGETATIVE WATERING	TRENCH EXCAVATION PROTECTION	WATER MAIN PIPE (PVC) (12IN) (DR18) (C900)	JCK TUN BOR OR AUG CSG (STL) (16IN)	SERVICE LINE (SHORT SIDE) (1-1/2" TO 2")	SERVICE LINE (LONG SIDE) (1-1/2" TO 2")	FIRE HYDRANT ASSEMBLY	REMOVING WATER VALVE AND BOX	REMOVING AND RELOCATING METER AND BOX	REMOVING AND SALVAGING FIRE HYDRANT	CUT AND PLUG WATER MAIN (8IN)	CUT AND PLUG WATER MAIN (12IN)	WET CONNECTION (8IN)	WET CONNECTION (12IN)	CASING STEEL (16 IN)	WTR MAIN PIPE (PVC) (6 IN) (DR 18) (C900)
	SY	AC	MG	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
CSJ 1685-03-058																		
A	270	0.1	12	3175	867	40	4	3	9	12	1	9	1	1	1	1	40	120
B	0	0	0	173	55	95	0	0	1	0	0	1	1	1	1	2	95	10
PROJECT TOTALS	270	0.1	12	3348	922	135	4	3	10	12	1	10	2	2	2	3	135	130

LOCATION	7049 6201	7049 6213	7049	* 7049	* 7049	* 7049	* 7049
	WTR MAIN PIPE (PVC) (8 IN) (DR 18) (C900)	2" BLOW-OFF VALVE	1" AIR RELEASE VALVE	GROUT ABANDONED LINES	12" GATE VALVE AND BOX	8" GATE VALVE AND BOX	DUCTILE IRON FITTINGS
	LF	EA	EA	CY	EA	EA	TON
CSJ 1685-03-058							
A	2325	2	3	64	1	7	2
B	127	0	0	18	1	0	1
PROJECT TOTALS	2452	2	3	82.0	2.0	7.0	3

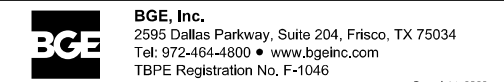
NOTE:

WATER MAIN PIPE (PVC) INCLUDES ALL SUBSIDIARY ITEMS. SUBSIDIARY ITEMS TO INCLUDE BUT NOT LIMITED TO ALL OTHER NECESSARY APPURTENANCES FOR CARRIER PIPE; GROUT ABANDONED LINE, ALL GATE VALVES AND DUCTILE IRON FITTINGS.

LOCATION	# 402 6001	7017 6088	7017 6110	7017 6129	7017 6140	7017 6141	* 7017	* 7017
	TRENCH EXCAVATION PROTECTION	AIR RELEASE VALVE (2 IN)	POST CONSTRUCTION TELEVISION INSPECTION	REMOVE EXIST SAN SWR PIPE (8IN)	PRE-CONSTRUCTION TELEVISION INSPECTION	SAN SEWER (8IN) (DI) (RESTRAINED JT)	BYPASS SYSTEM	DUCTILE IRON FITTINGS
	LF	EA	LF	LF	LF	LF	LS	TON
CSJ 1685-03-058								
A	3360	3	3360	3351	3360	3360	1	1.03
PROJECT TOTALS	3360	3	3360	3351	3360	3360	1	1.03

* FOR CONTRACTOR'S INFORMATION ONLY

QUANTITIES ARE WITHIN THE AREA OF PROPOSED EASEMENT ONLY.



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN

**SUMMARY OF
UTILITY QUANTITIES**

(HC MUD 109)

SHEET 1 OF 1

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	31

FILENAME: FM1960W_Utility Quantities_1.dgn

DRAWING DATE: 4/29/2020

LOCATION	# 162 6002	# 166 6001	# 168 6001	# 402 6001	7049 6017	7049 6046	7049 6076	7049 6077	7049 6104	7049 6115	7049 6116	7049 6119	7049 6127	7049 6129	7049 6140	7049 6142	7049 6160	7049 6200
	BLOCK SODDING	FERTILIZER	VEGETATIVE WATERING	TRENCH EXCAVATION PROTECTION	WATER MAIN PIPE (PVC) (12IN) (DR18) (C900)	CASING STEEL (20IN)	SERVICE LINE (SHORT SIDE) (1-1/2" TO 2")	SERVICE LINE (LONG SIDE) (1-1/2" TO 2")	FIRE HYDRANT ASSEMBLY	REMOVING WATER VALVE AND BOX	REMOVING AND RELOCATING METER AND BOX	REMOVING AND SALVAGING FIRE HYDRANT	CUT AND PLUG WATER MAIN (8IN)	CUT AND PLUG WATER MAIN (12IN)	WET CONNECTION (8IN)	WET CONNECTION (12IN)	JCK TUN BOR OR AUG CSG (STL) (20IN)	WTR MAIN PIPE (PVC) (6 IN) (DR 18) (C900)
	SY	AC	MG	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF
CSJ 1685-03-058																		
A	270	0.1	12	3192	3192	0	4	3	9	12	1	9	1	1	1	1	0	120
B	0	0	0	87	182	95	0	0	1	0	0	1	1	1	1	2	95	10
PROJECT TOTALS	270	0.1	12	3279	3374	95	4	3	10	12	1	10	2	2	2	3	95	130

4

LOCATION	7049 6201	7049 6213	7049	* 7049	* 7049	* 7049	* 7049
	WTR MAIN PIPE (PVC) (8 IN) (DR 18) (C900)	2" BLOW-OFF VALVE	1" AIR RELEASE VALVE	GROUT ABANDONED LINES	12" GATE VALVE AND BOX	8" GATE VALVE AND BOX	DUCTILE IRON FITTINGS
	LF	EA	EA	CY	EA	EA	TON
CSJ 1685-03-058							
A	0	2	3	64	5	0	2
B	0	0	0	18	1	0	1
PROJECT TOTALS	0	2	3	82.0	6.0	0	3

4

4

NOTE:

WATER MAIN PIPE (PVC) AND SANITARY SEWER PIPE (DI) INCLUDES ALL SUBSIDIARY ITEMS. SUBSIDIARY ITEMS TO INCLUDE BUT NOT LIMITED TO ALL OTHER NECESSARY APPURTENANCES FOR CARRIER PIPE; GROUT ABANDONED LINE, ALL GATE VALVES AND DUCTILE IRON FITTINGS.

LOCATION	# 402 6001	7017 6088	7017 6030	7017 6110	7017 6129	7017 6140	7017 6141	* 7017	* 7017	* 7017
	TRENCH EXCAVATION PROTECTION	AIR RELEASE VALVE (2 IN)	SANITARY SEWER (4 IN) (DI)	POST CONSTRUCTION TELEVISION INSPECTION	REMOVE EXIST SAN SWR PIPE (8IN)	PRE-CONSTRUCTION TELEVISION INSPECTION	SAN SEWER (8IN) (DI) (RESTRAINED JT)	4" ECCENTRIC PLUG VALVE	BYPASS SYSTEM	DUCTILE IRON FITTINGS
	LF	EA	LF	LF	LF	LF	LF	EA	LS	TON
CSJ 1685-03-058										
A	3380	3	15	3380	3351	3380	3380	1	1	1
PROJECT TOTALS	3380	3	15	3380	3351	3380	3380	1	1	1

* FOR CONTRACTOR'S INFORMATION ONLY

QUANTITIES ARE WITHIN THE AREA OF PROPOSED EASEMENT ONLY.

DATE	BY	REV	REVISION
10/7/2021	YWC	1	REVISED NOTE AND QUANTITIES
2/8/2022	YWC	2	REVISED QUANTITIES
8/11/2022	YWC	3	REVISED QUANTITIES
8/29/2022	YWC	4	REVISED QUANTITIES



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN

**SUMMARY OF
UTILITY QUANTITIES**

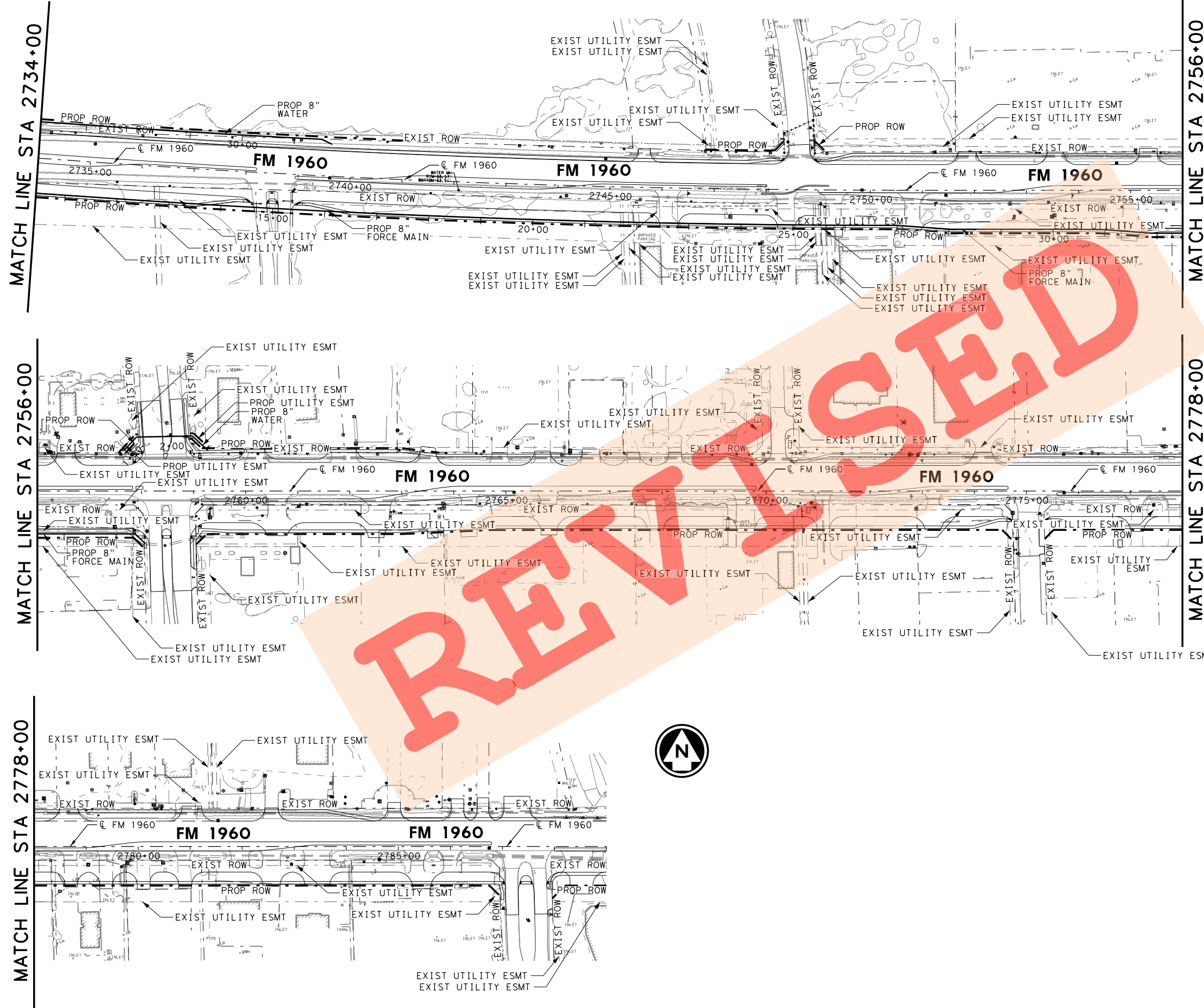
(HC MUD 109)

SHEET 1 OF 1

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	31
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Project Layout_4.dgn

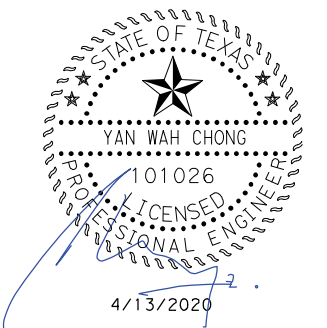
DRAWING DATE: 4/13/2020



HORZ 0' 50' 100' 200'
SCALE IN FEET



REVISIONS



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROJECT LAYOUT

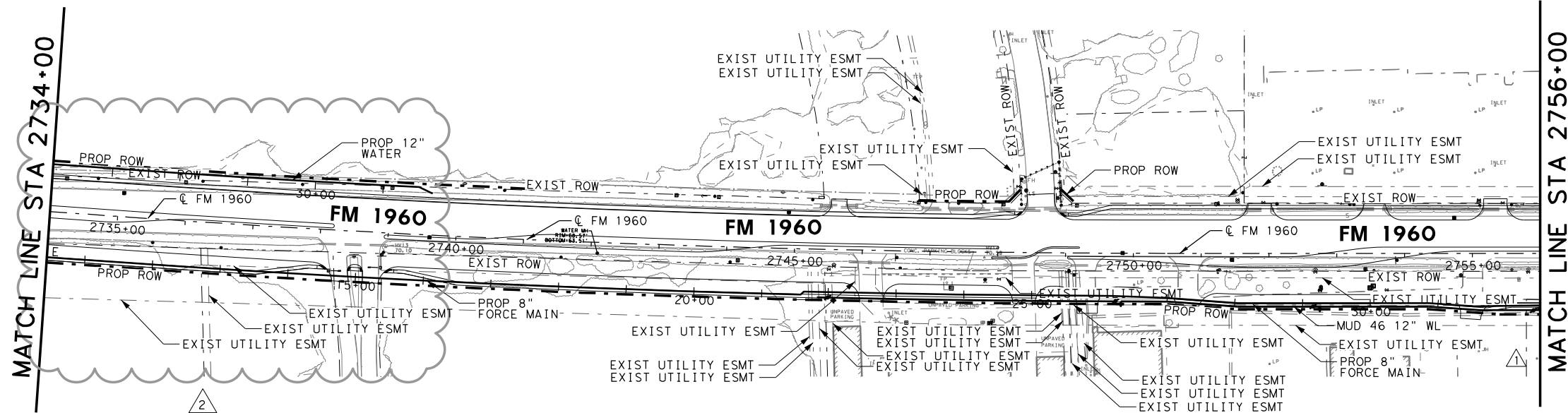
2734+00 TO 2789+00
(HC MUD 109)

SHEET 4 OF 4

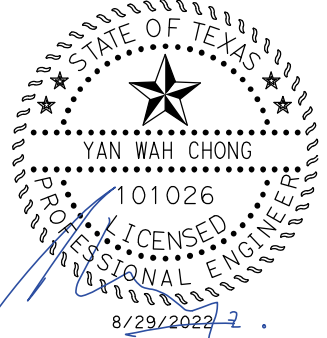
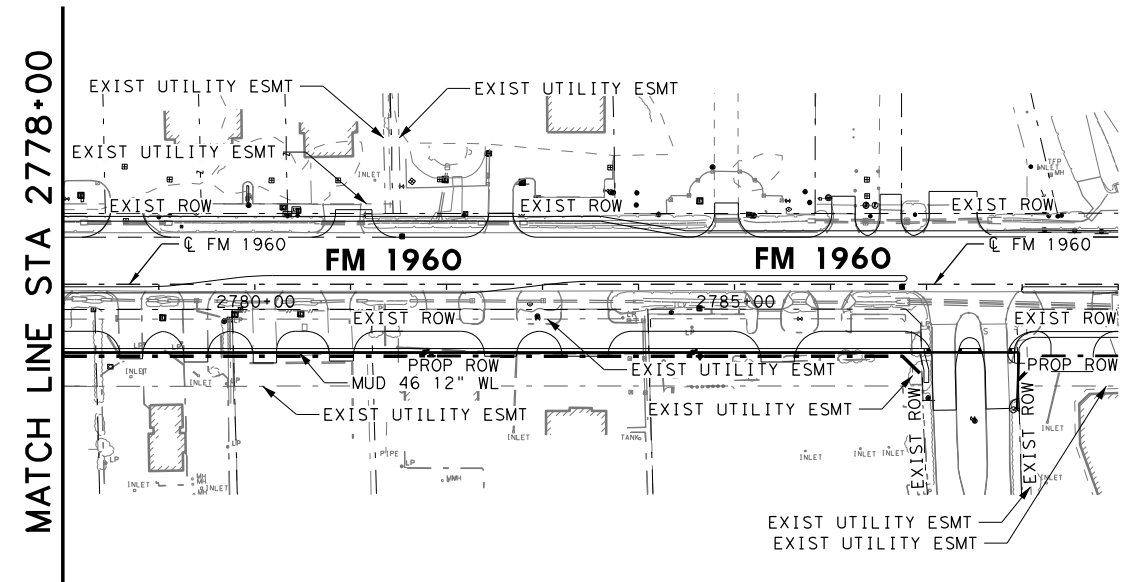
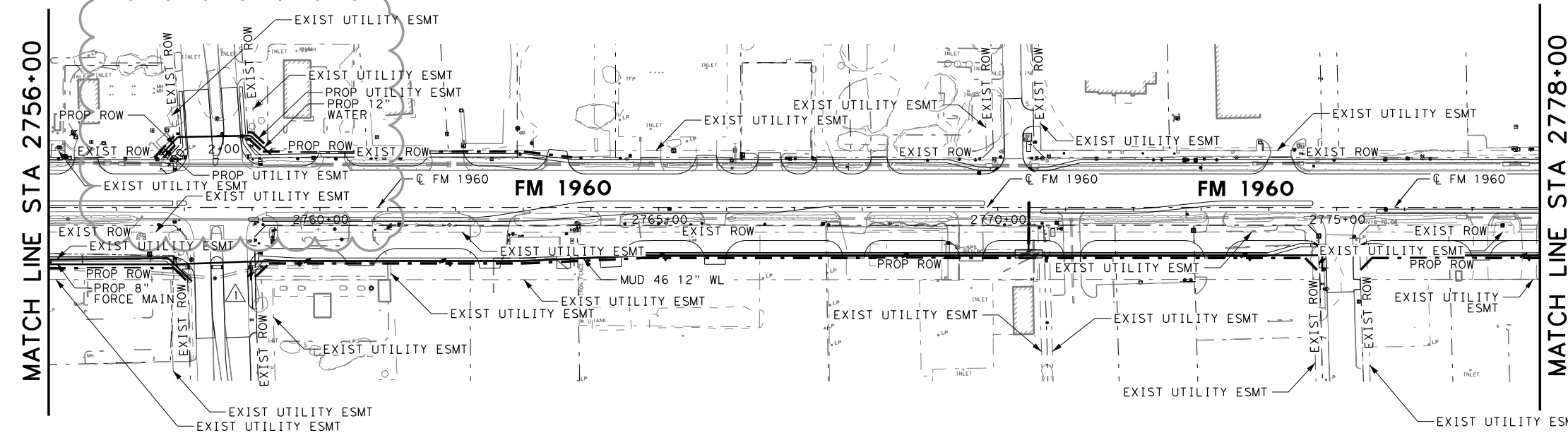
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	513
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Project Layout_4.dgn

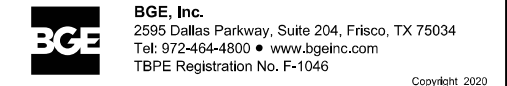
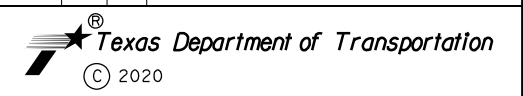
DRAWING DATE: 8/29/2022



HORZ 0' 50' 100' 200'
SCALE IN FEET



DATE	BY	REV	REVISION
2/8/2022	YWC	1	8" SS LINE REALIGNMENT ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROJECT LAYOUT

2734+00 TO 2789+00
(HC MUD 109)

SHEET 4 OF 4

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	513
1685	03	058	



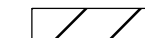
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

NOTES:

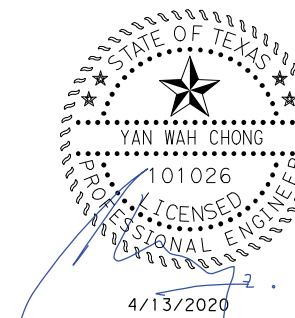
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



TO BE REMOVED



TO BE ABANDONED



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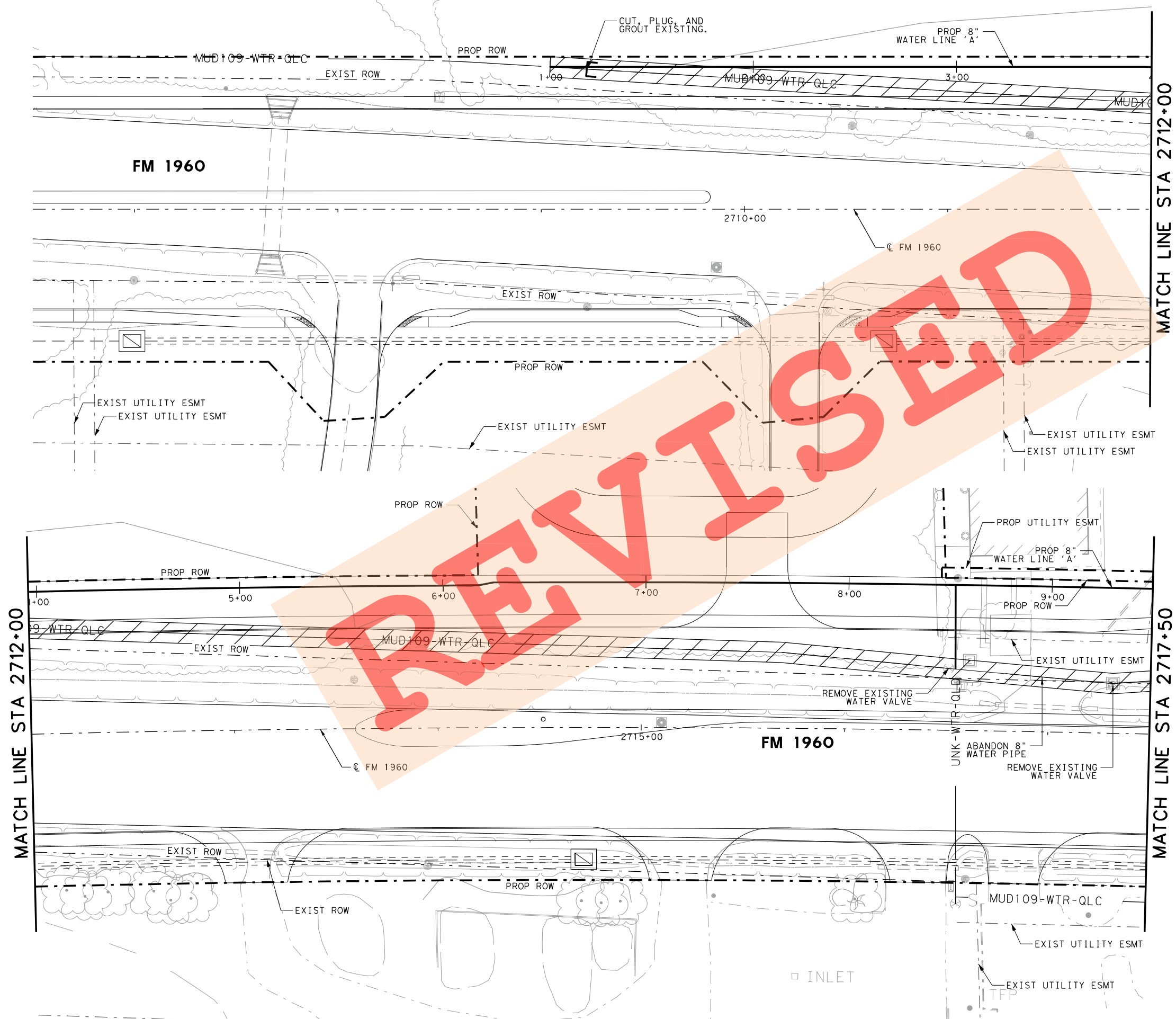
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FM 1960
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UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2706+50 TO 2717+50

(HC MUD 109)

SHEET 1 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	514
CONTROL	SECTION	JOB	
1685	03	058	



REVISIONS

FILENAME: FM1960W_Abandonment Layout_1.dgn

DRAWING DATE: 4/13/2020



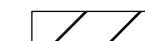
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

NOTES:

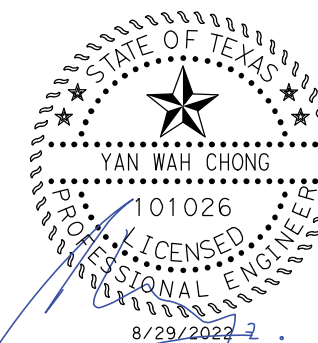
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



TO BE REMOVED



TO BE ABANDONED



DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND PROP 12" WL TEXT
8/29/2022	YWC	2	UPDATED PROP 8" WL TO 12" WL



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FM 1960
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**UTILITY REMOVAL AND
 ABANDONMENT LAYOUTS**
 2706+50 TO 2717+50

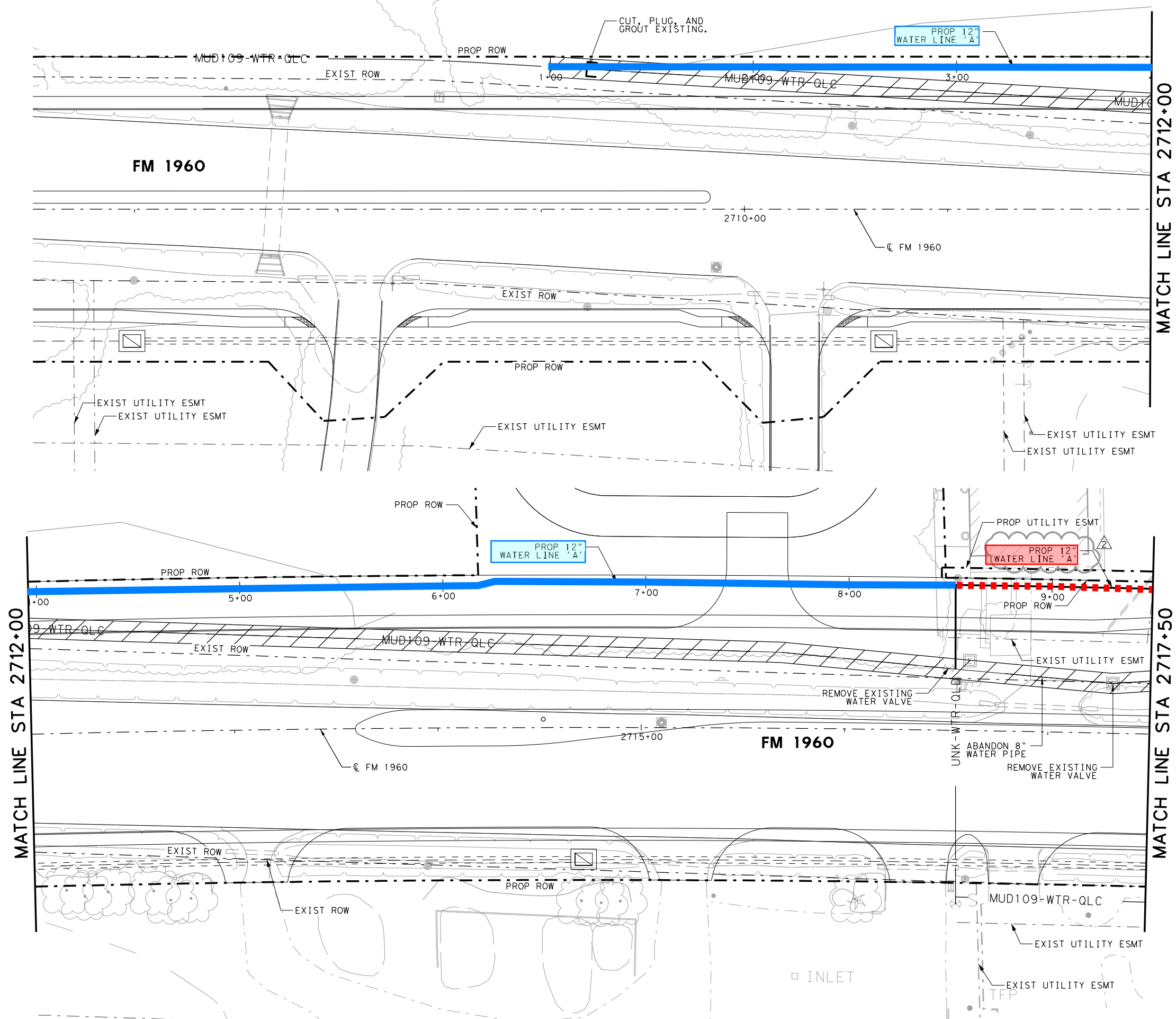
(HC MUD 109)

SHEET 1 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	514
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment_Layout_1.dgn

DRAWING DATE: 8/29/2022



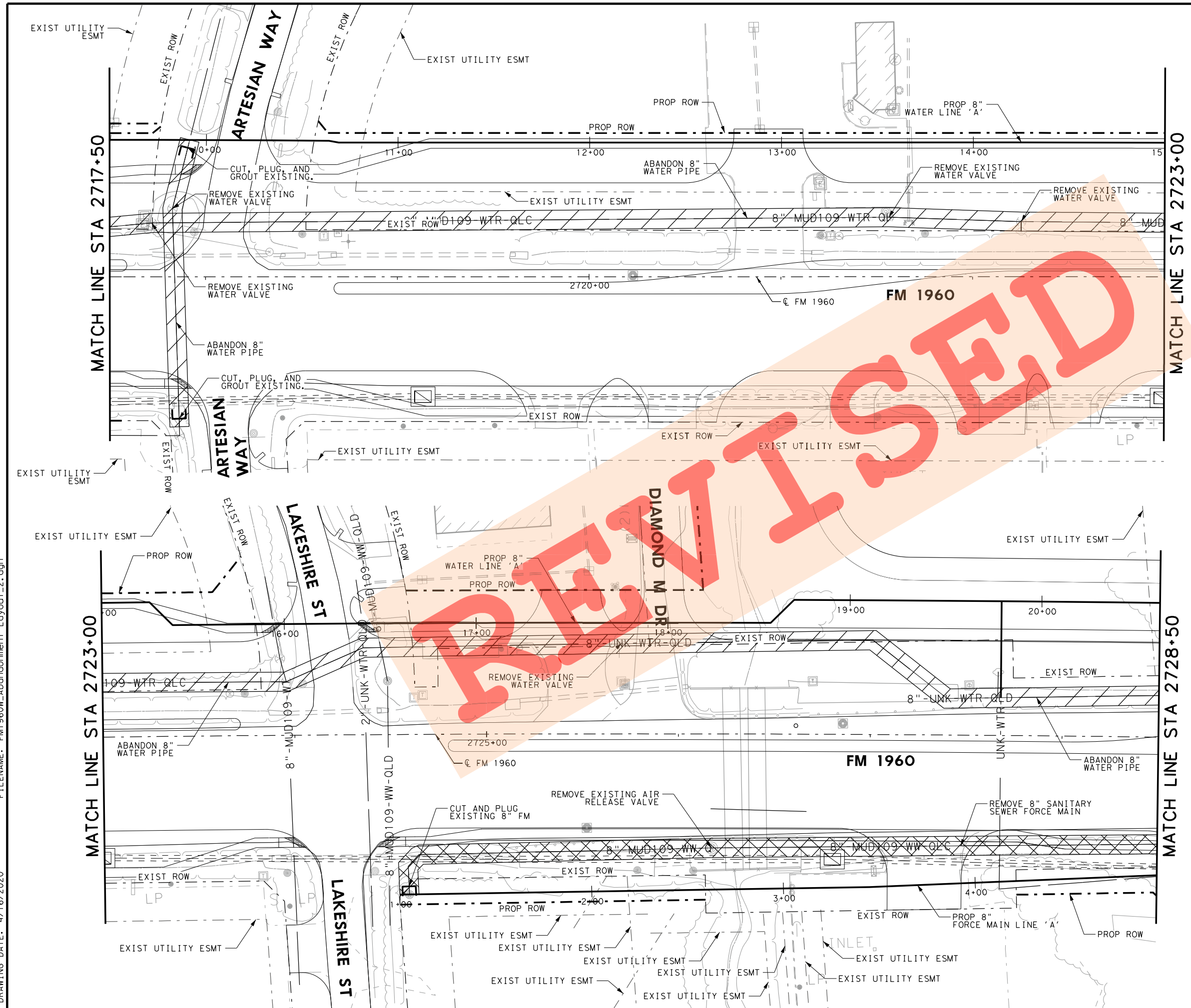
MATCH LINE STA 2712+00

MATCH LINE STA 2717+50

FM 1960

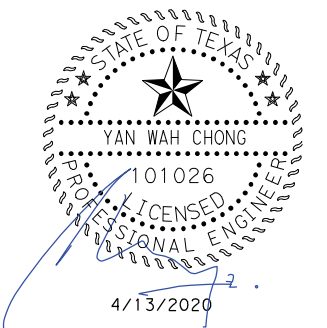
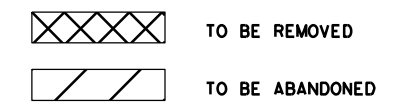
FM 1960

FILENAME: FM1960W_Abandonment_Layout_2.dgn
DRAWING DATE: 4/16/2020



HORZ 0' 10' 25' 50'
VERT 0' 5' 10'
SCALE IN FEET

- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2717+50 TO 2728+50

(HC MUD 109)


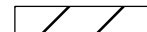
SHEET 2 OF 5

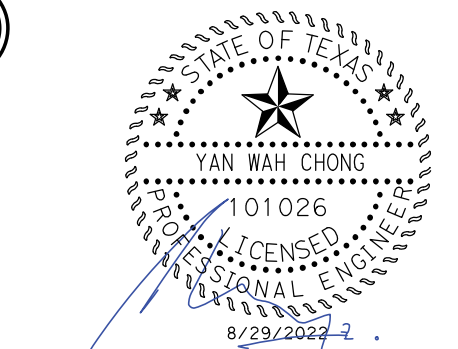
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6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	515
CONTROL	SECTION	JOB	
1685	03	058	



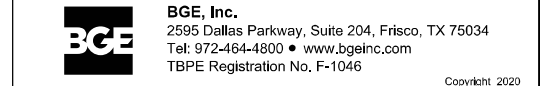
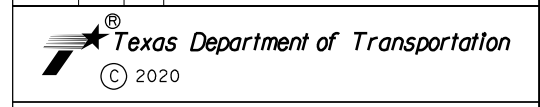
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.

-  TO BE REMOVED
-  TO BE ABANDONED



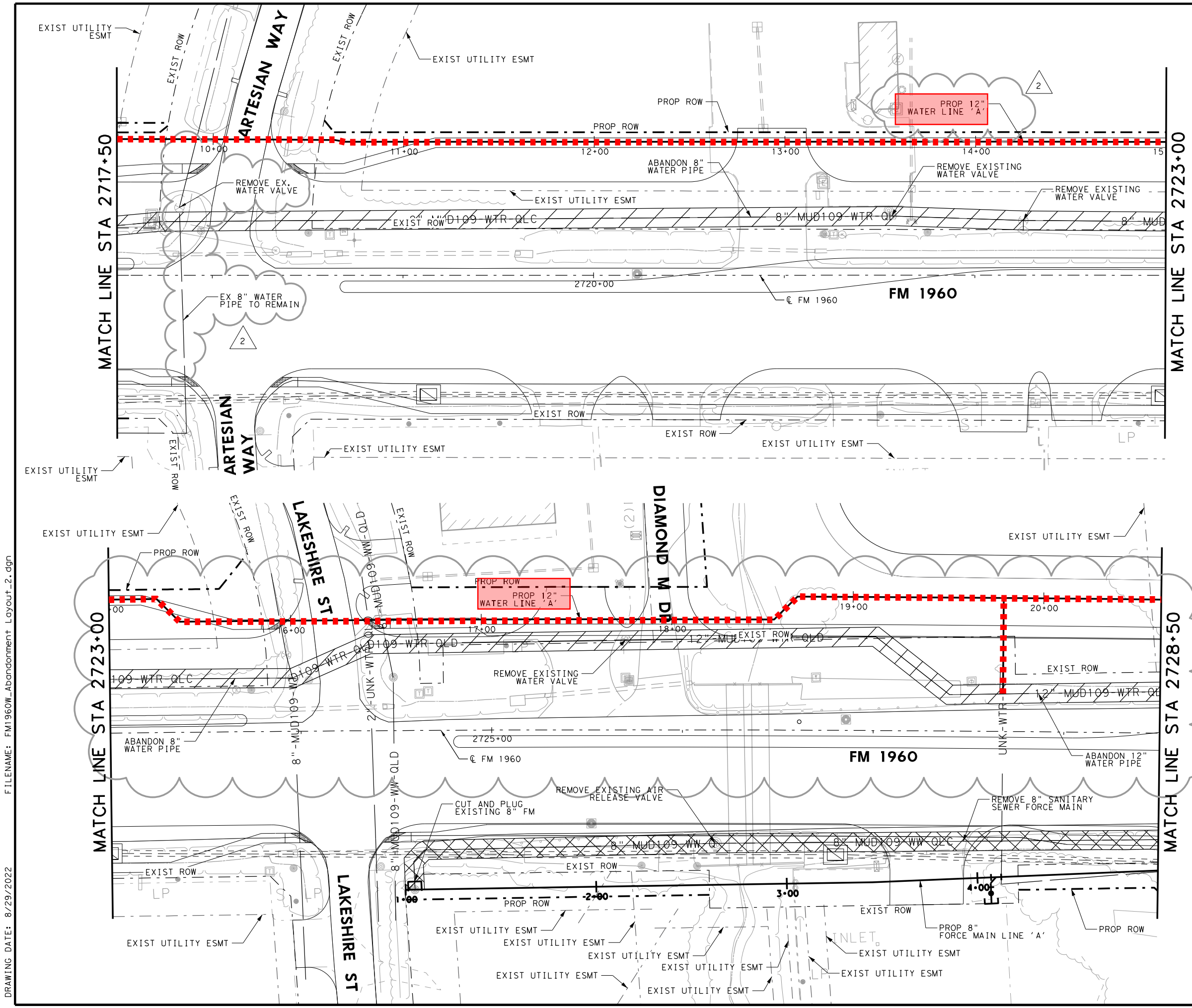
DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED 4" FM
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL
8/29/2022	YWC	2	REMOVED ABANDONMENT OF EX 8" WL



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
 ABANDONMENT LAYOUTS**
 2717+50 TO 2728+50

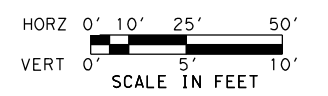
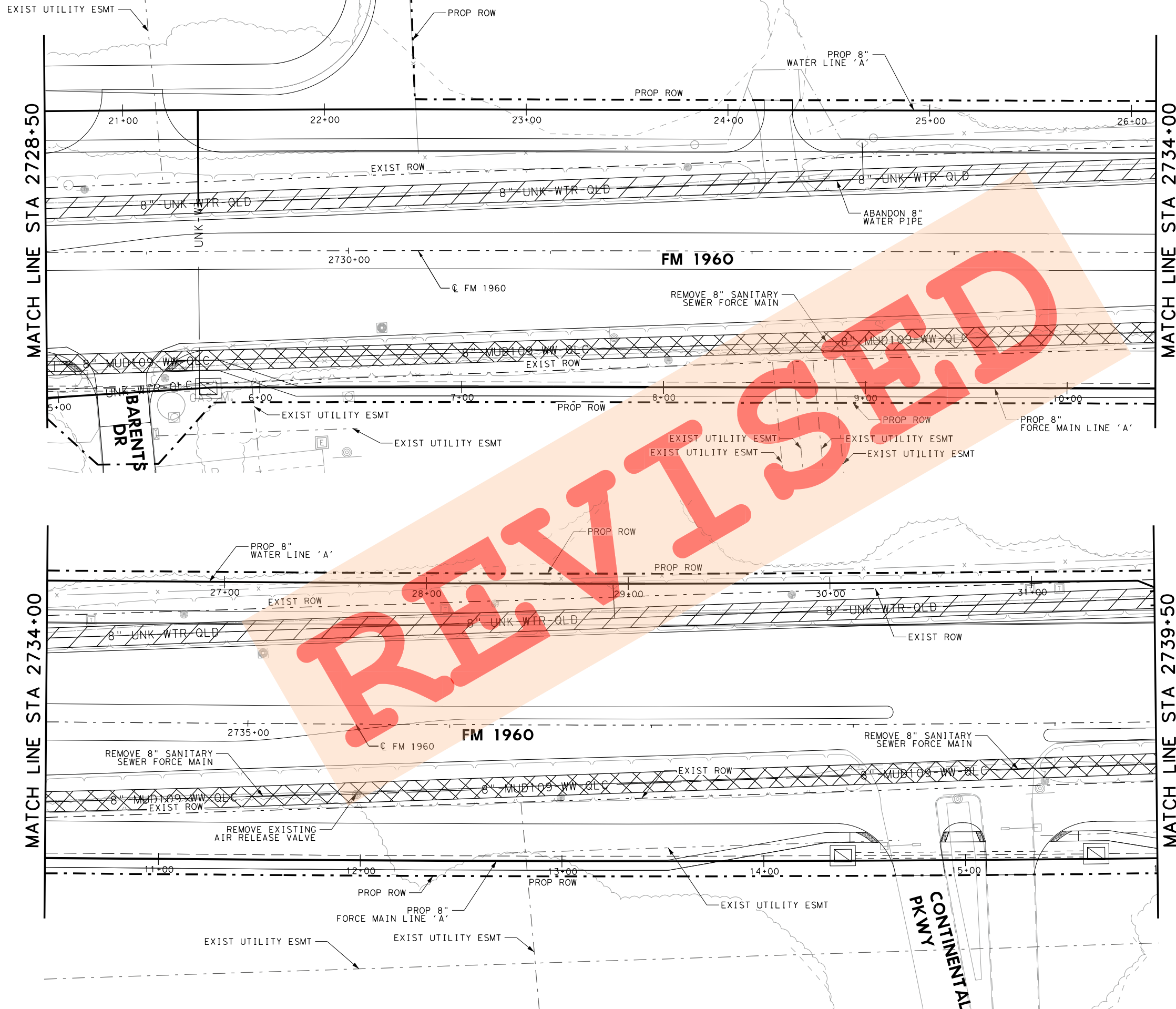
(HC MUD 109) SHEET 2 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	515
CONTROL	SECTION	JOB	
1685	03	058	

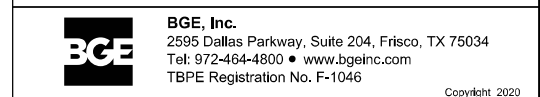
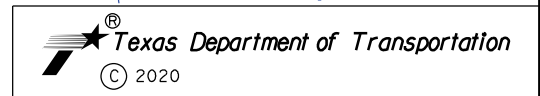
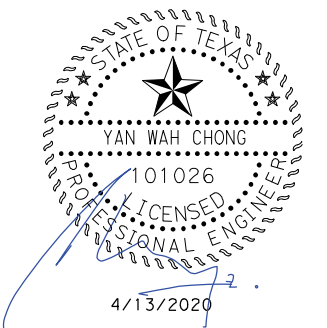
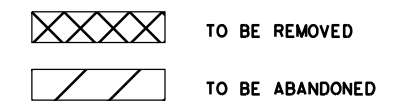


FILENAME: FM1960W_Abandonment Layout_2.dgn

DRAWING DATE: 8/29/2022



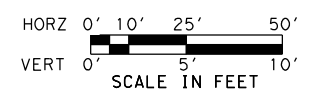
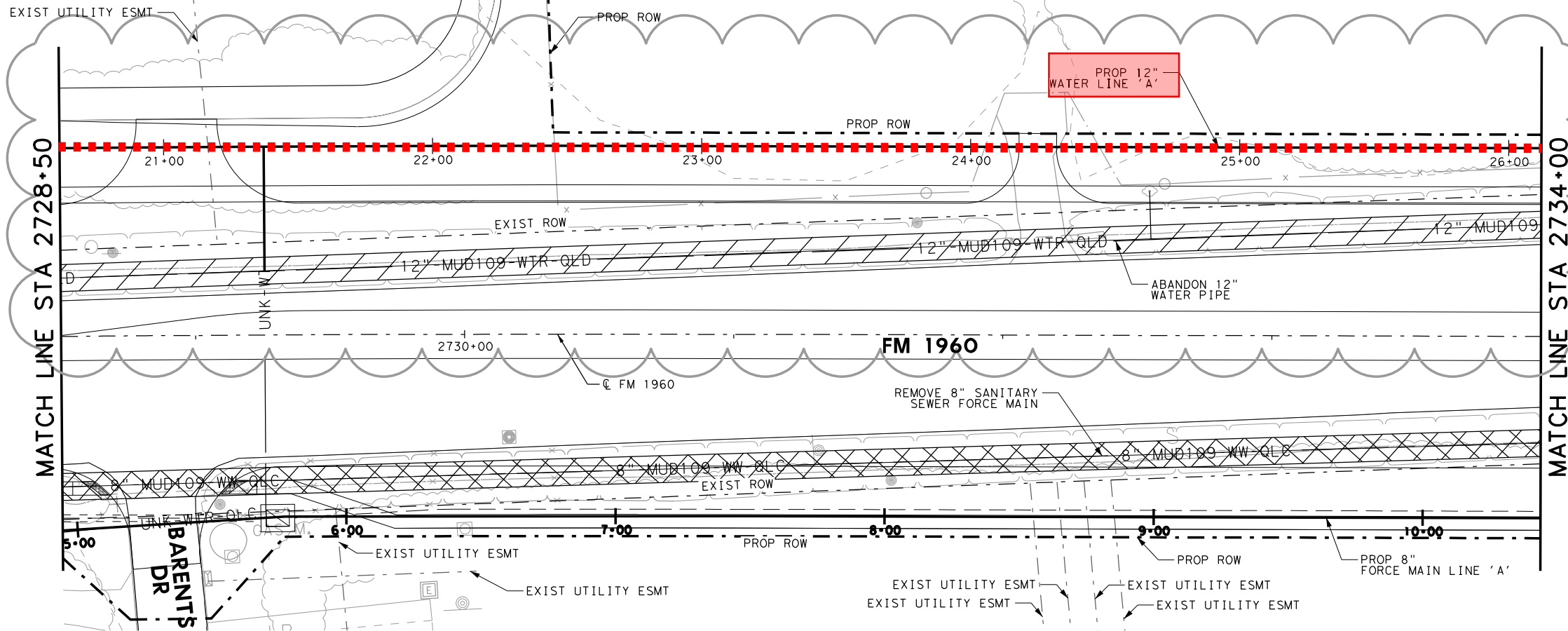
- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



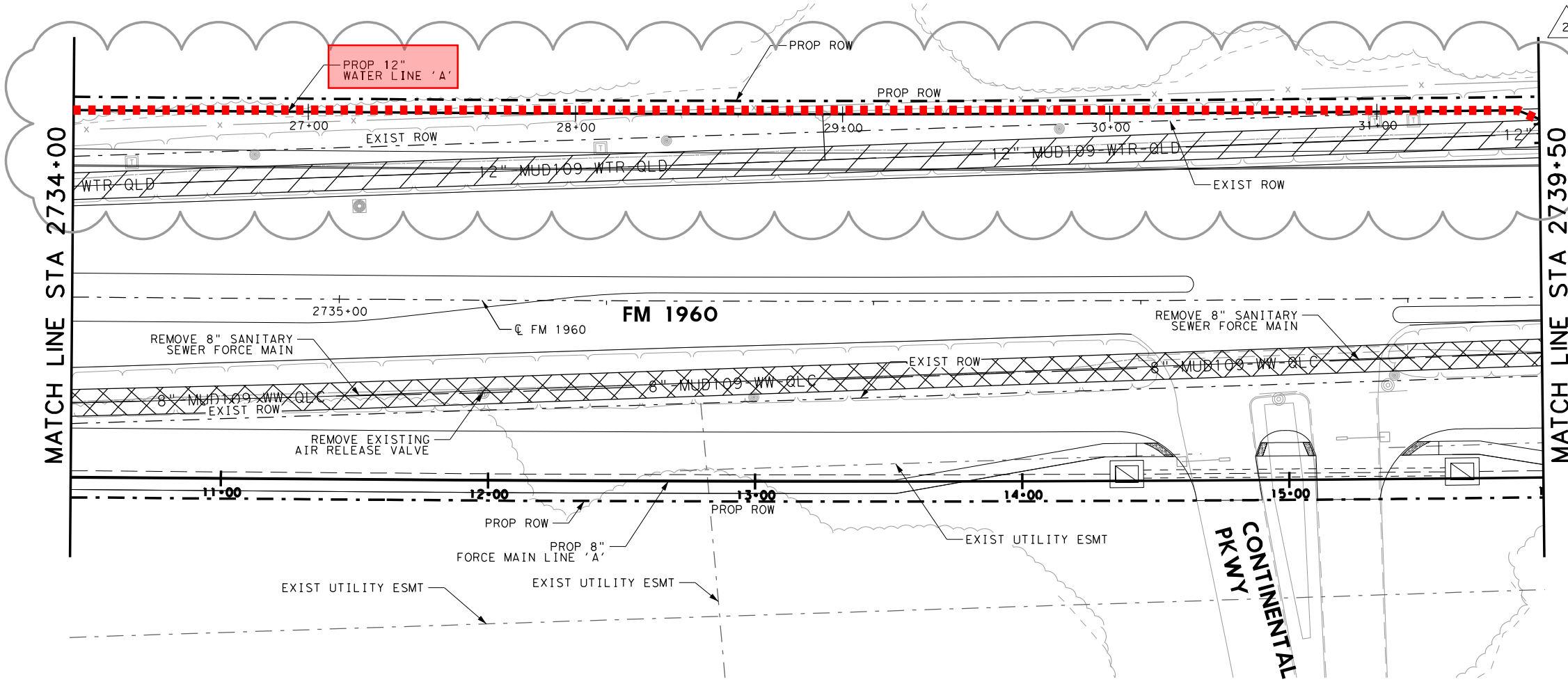
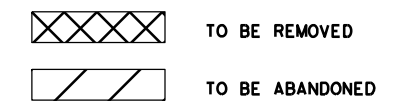
FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2728+50 TO 2739+50
 (HC MUD 109)

FED. RD. DIV. NO.			FEDERAL AID PROJECT NO.	HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.	
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB		
1685	03	058	516	

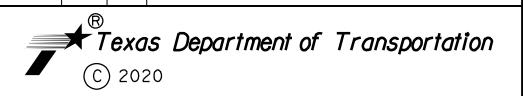
FILENAME: FM1960W_Abandonment Layout_3.dgn
 DRAWING DATE: 4/13/2020



- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



DATE	BY	REV	REVISION
8/29/2022	YWC	2	PROP & EXIST 8\"/>



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2728+50 TO 2739+50

(HC MUD 109)

SHEET 3 OF 5

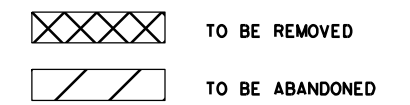
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	516
CONTROL	SECTION	JOB	
1685	03	058	

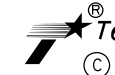
DRAWING DATE: 8/29/2022 FILENAME: FM1960W_Abandonment Layout_3.dgn




HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.

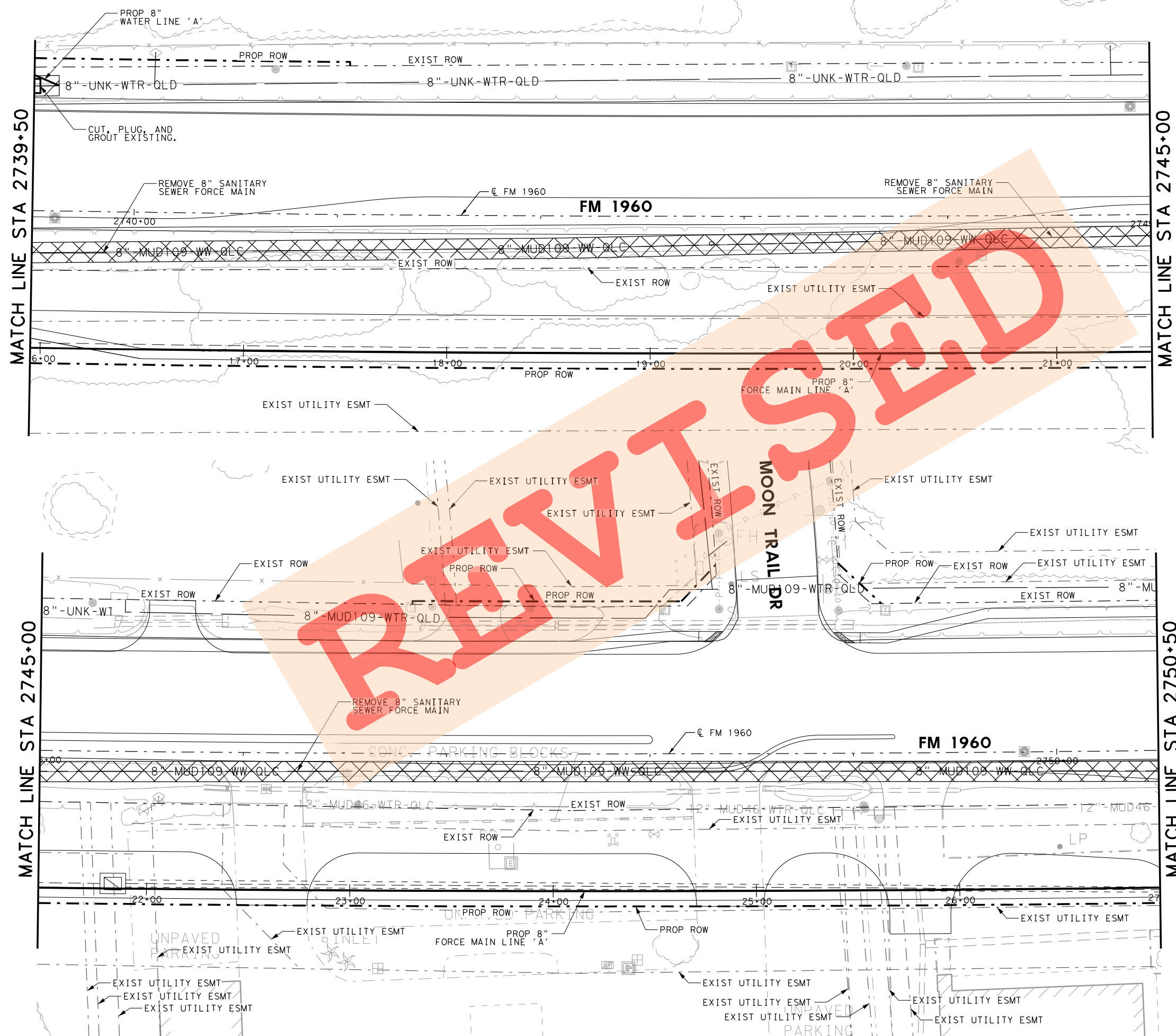


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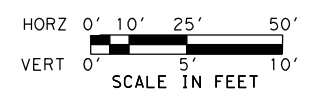
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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
 ABANDONMENT LAYOUTS**
2739+50 TO 2750+50
 (HC MUD 109) SHEET 4 OF 5

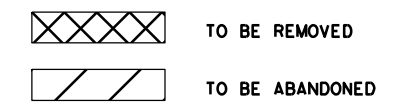
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	517
CONTROL	SECTION	JOB	
1685	03	058	



FILENAME: FM1960W_Abandonment Layout_4.dgn
 DRAWING DATE: 4/13/2020





- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



STATE OF TEXAS
 YAN WAH CHONG
 101026
 LICENSED PROFESSIONAL ENGINEER
 8/29/2022

DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND 8" FM ALIGNMENT ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL

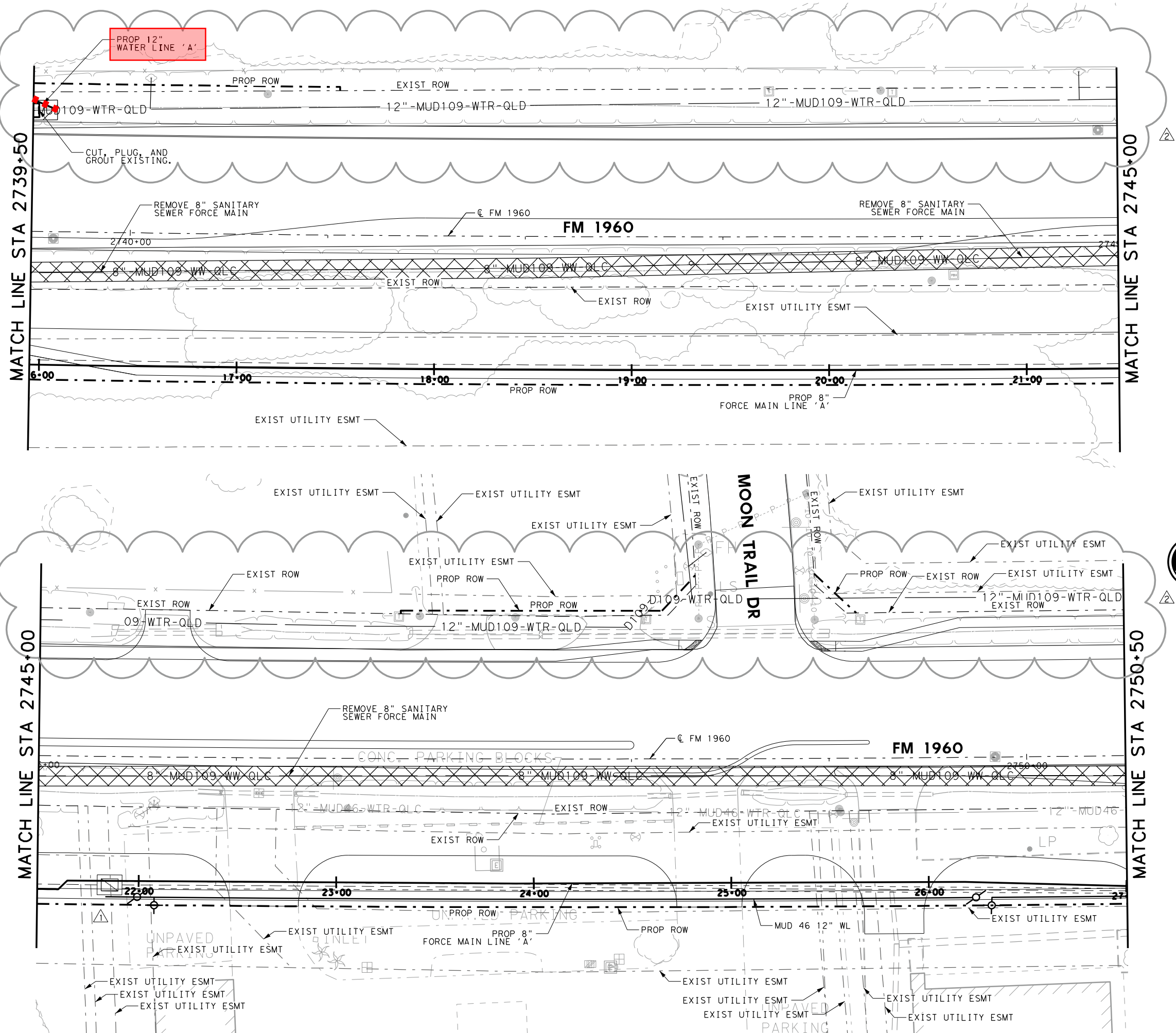
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UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2739+50 TO 2750+50

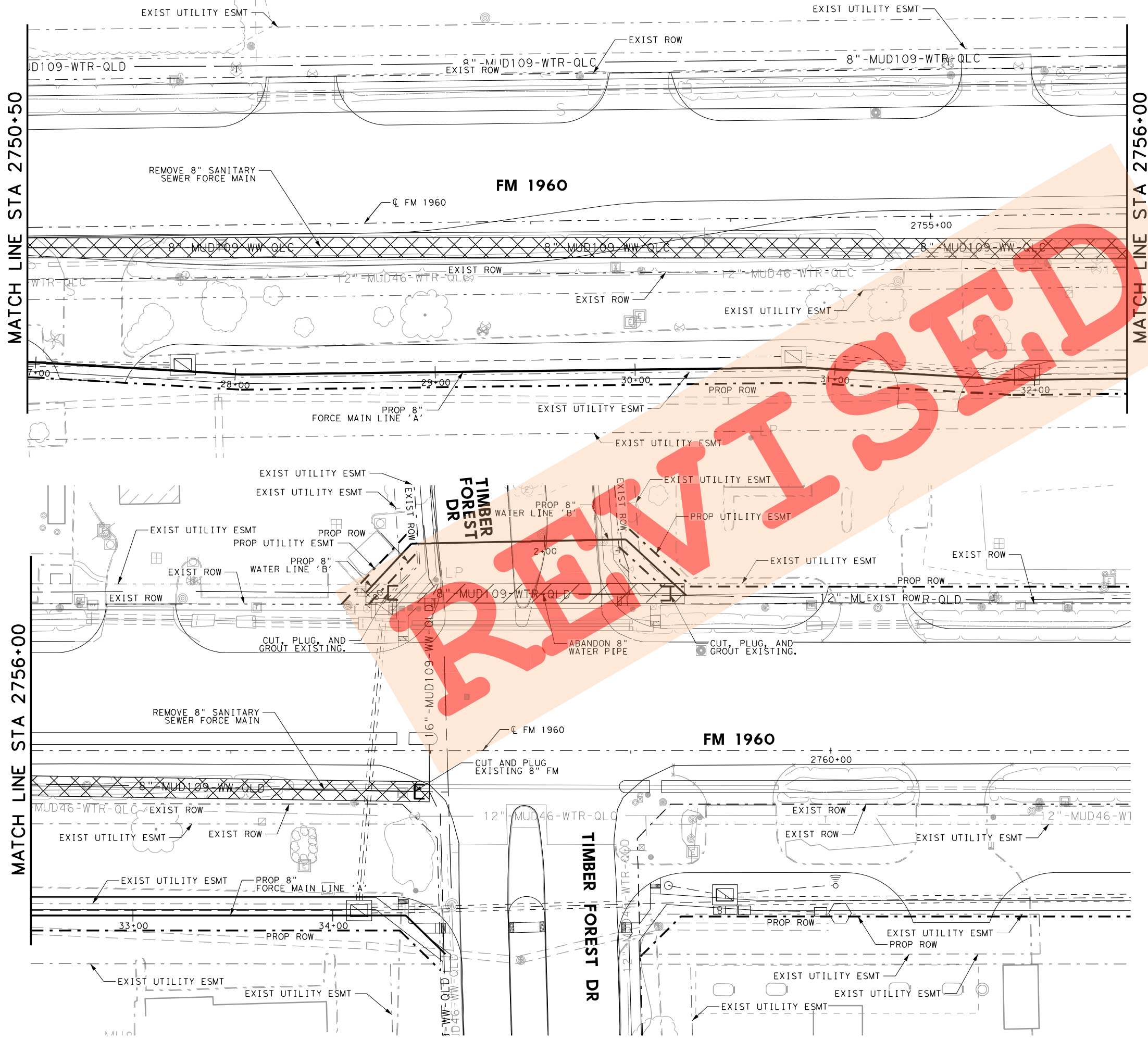
(HC MUD 109) SHEET 4 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	517
CONTROL	SECTION	JOB	
1685	03	058	



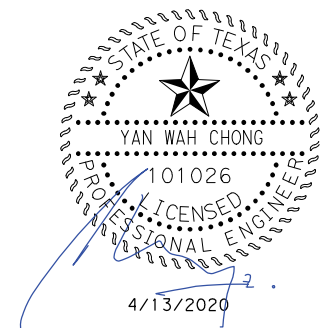
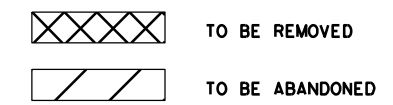
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 DRAWING DATE: 8/29/2022

FILENAME: FM1960W_Abandonment_Layout_5.dgn
DRAWING DATE: 4/16/2020



HORZ 0' 10' 25' 50'
VERT 0' 5' 10'
SCALE IN FEET

- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



Texas Department of Transportation
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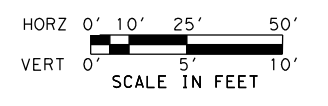
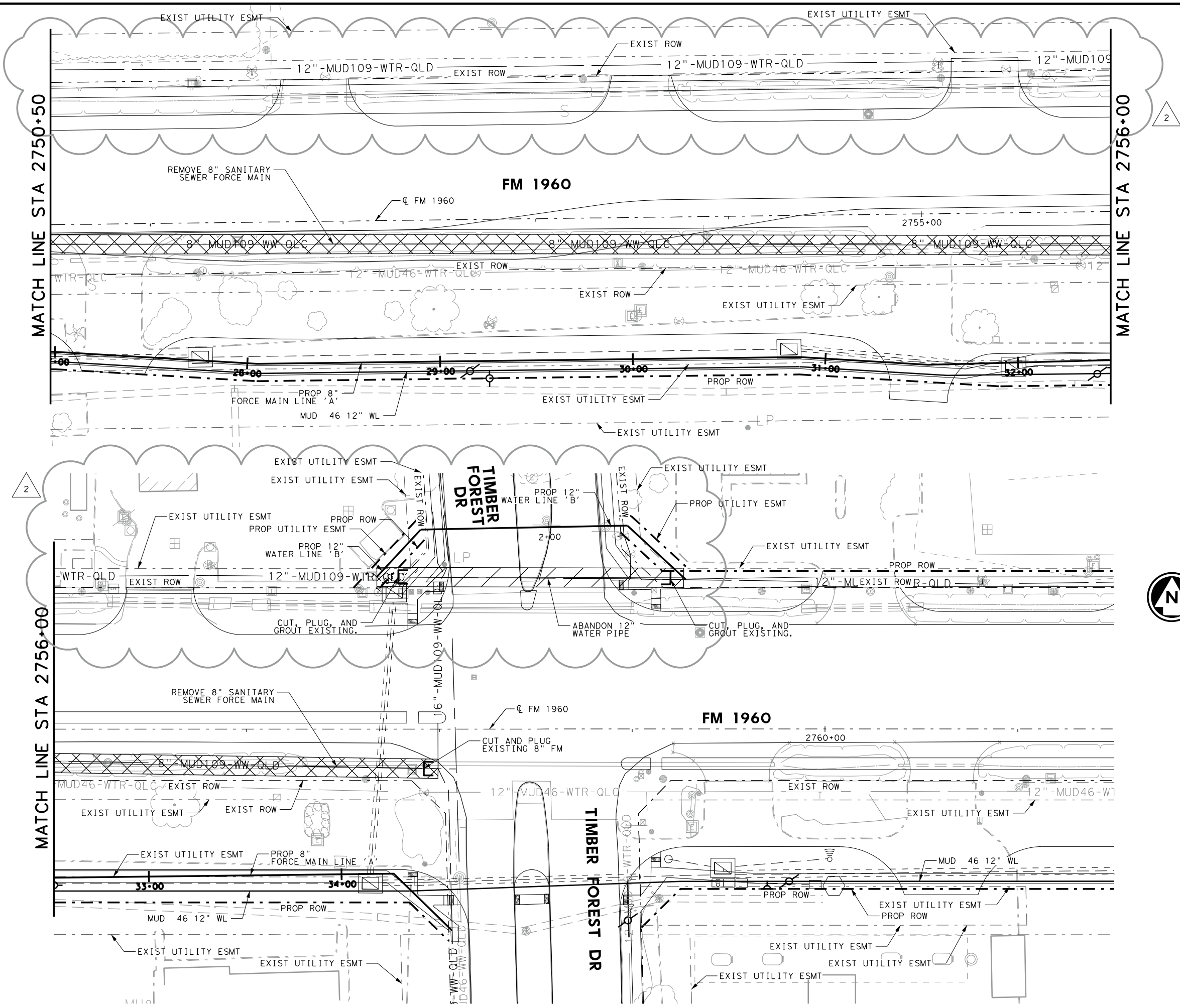
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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND ABANDONMENT LAYOUTS
2750+50 TO 2761+50

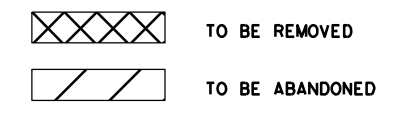
(HC MUD 109) SHEET 5 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	518
CONTROL	SECTION	JOB	
1685	03	058	

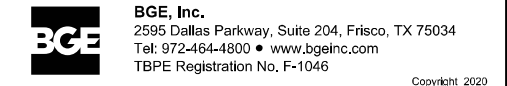
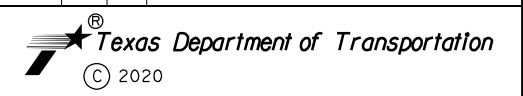
FILENAME: FM1960W_Abandonment_Layout_5.dgn
DRAWING DATE: 8/29/2022



- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND 8" SS LINE ALIGN ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
ABANDONMENT LAYOUTS**
2750+50 TO 2761+50

(HC MUD 109)

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	518
CONTROL	SECTION	JOB	
1685	03	058	

C/L CURVE DATA
 $\Delta = 00^\circ 58' 29''$
 $R = 11520.00'$
 $T = 137.8144'$
 $L = 275.6183'$

PT 2714+20, 70' LT
 $N 13932279.6990$
 $E 3169239.3875$
 $\Delta 10^\circ 40' 23''$ LT
 INSTALL 1-12" 11.25° BEND

STA 2714+31, 71.5' LT
 INSTALL
 1-12" X 6" ANCHOR TEE
 1-6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 $N 13932281.3063$
 $E 3169251.7050$

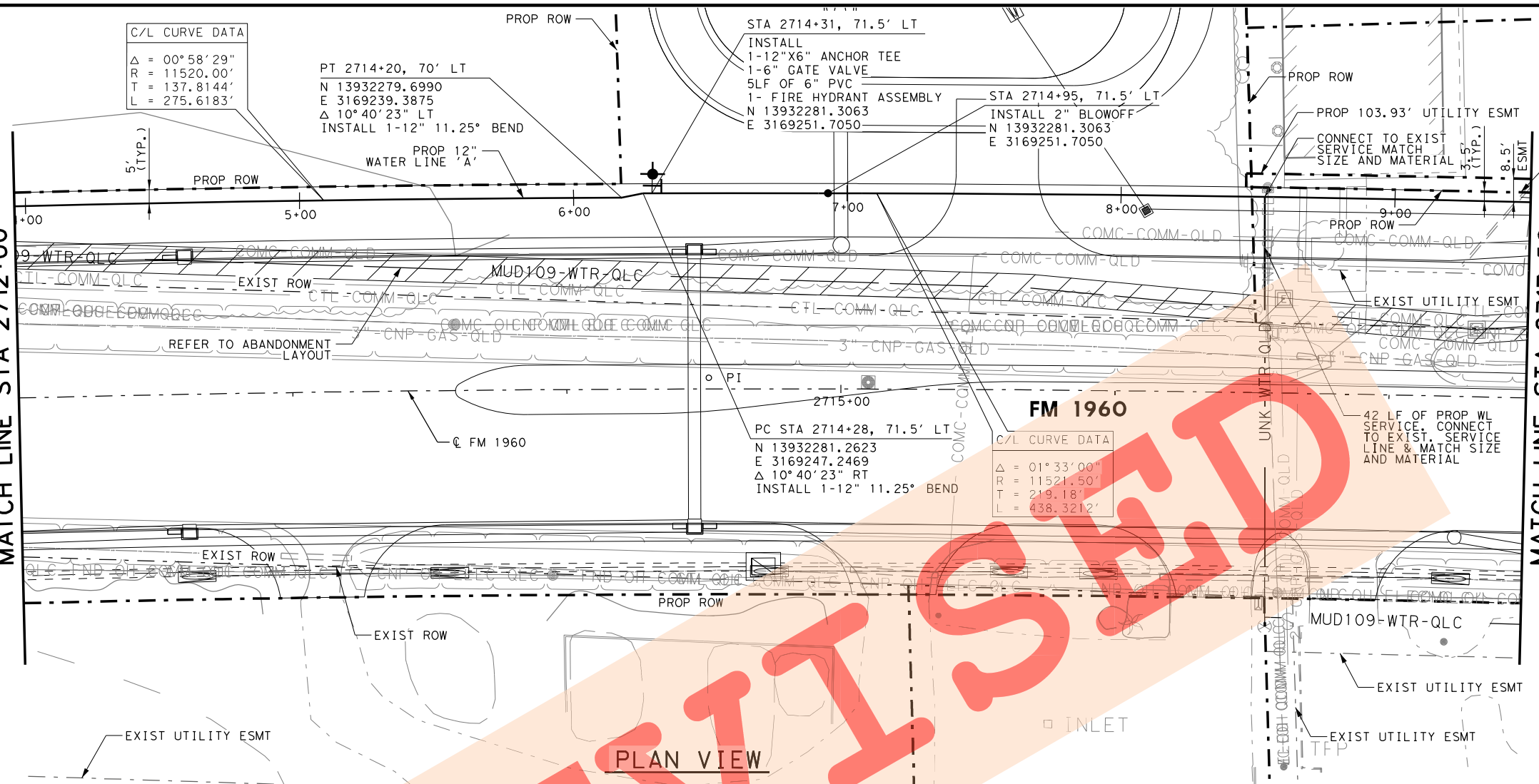
STA 2714+95, 71.5' LT
 INSTALL 2" BLOWOFF
 $N 13932281.3063$
 $E 3169251.7050$



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

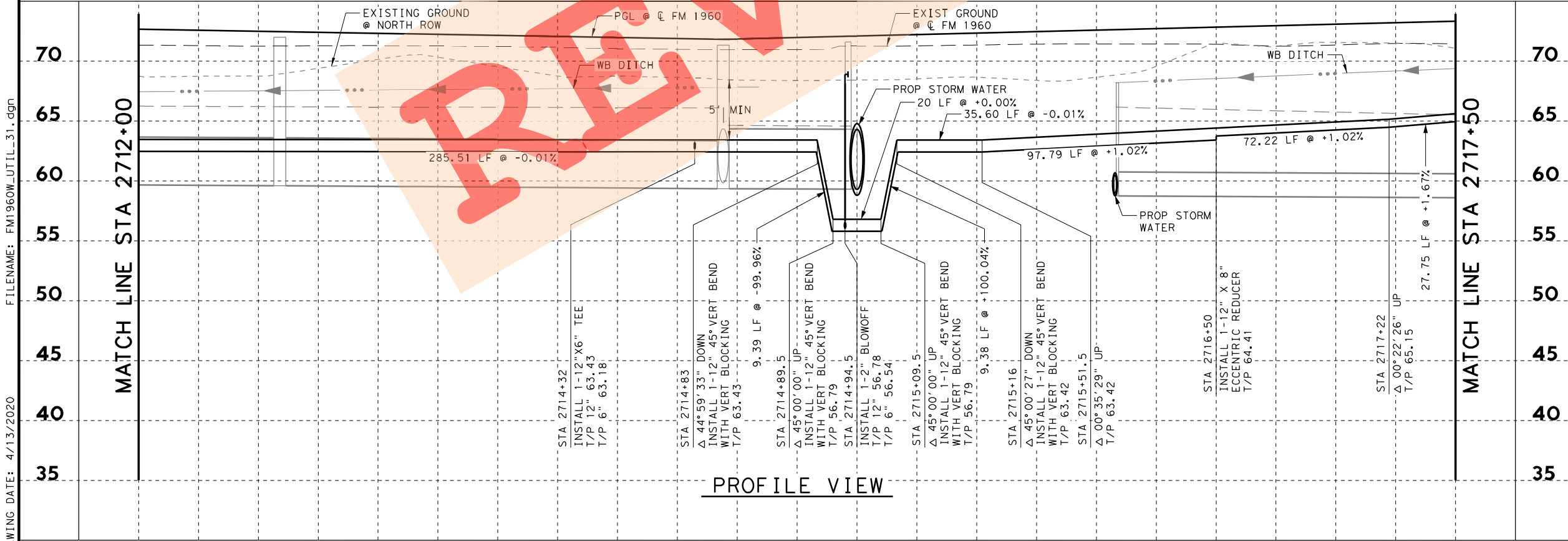
MATCH LINE STA 2712+00

MATCH LINE STA 2717+50



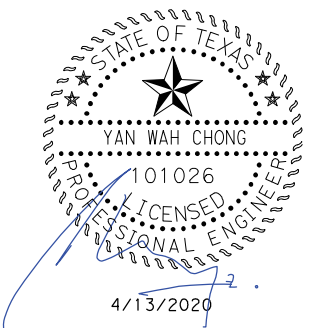
- NOTES:
- CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
 - REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
 - ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO PERFORMING THE WORK. EXIST UTILITY ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED.
 - ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. IF A BUSINESS HAS MULTIPLE DRIVEWAYS, ONE DRIVEWAY MUST REMAIN OPEN AT ALL TIMES. IF A BUSINESS ONLY HAS ONE DRIVEWAY, THE PROPOSED UTILITY SHALL BE INSTALLED BY TRENCHLESS METHODS.
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PLAN VIEW



PROFILE VIEW

2715+00



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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2712+00 TO 2717+50

(HC MUD 109) SHEET 2 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	520
1685	03	058	

FILENAME: FM1960W_UTIL_31.dgn

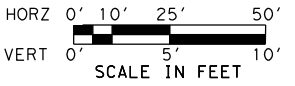
DRAWING DATE: 4/13/2020

C/L CURVE DATA	
Δ =	00° 58' 29"
R =	11520.00'
T =	137.8144'
L =	275.6183'

PT 2714+20, 70' LT
 N 13932279.6990
 E 3169239.3875
 Δ 10° 40' 23" LT
 INSTALL 1-12" 11.25° BEND

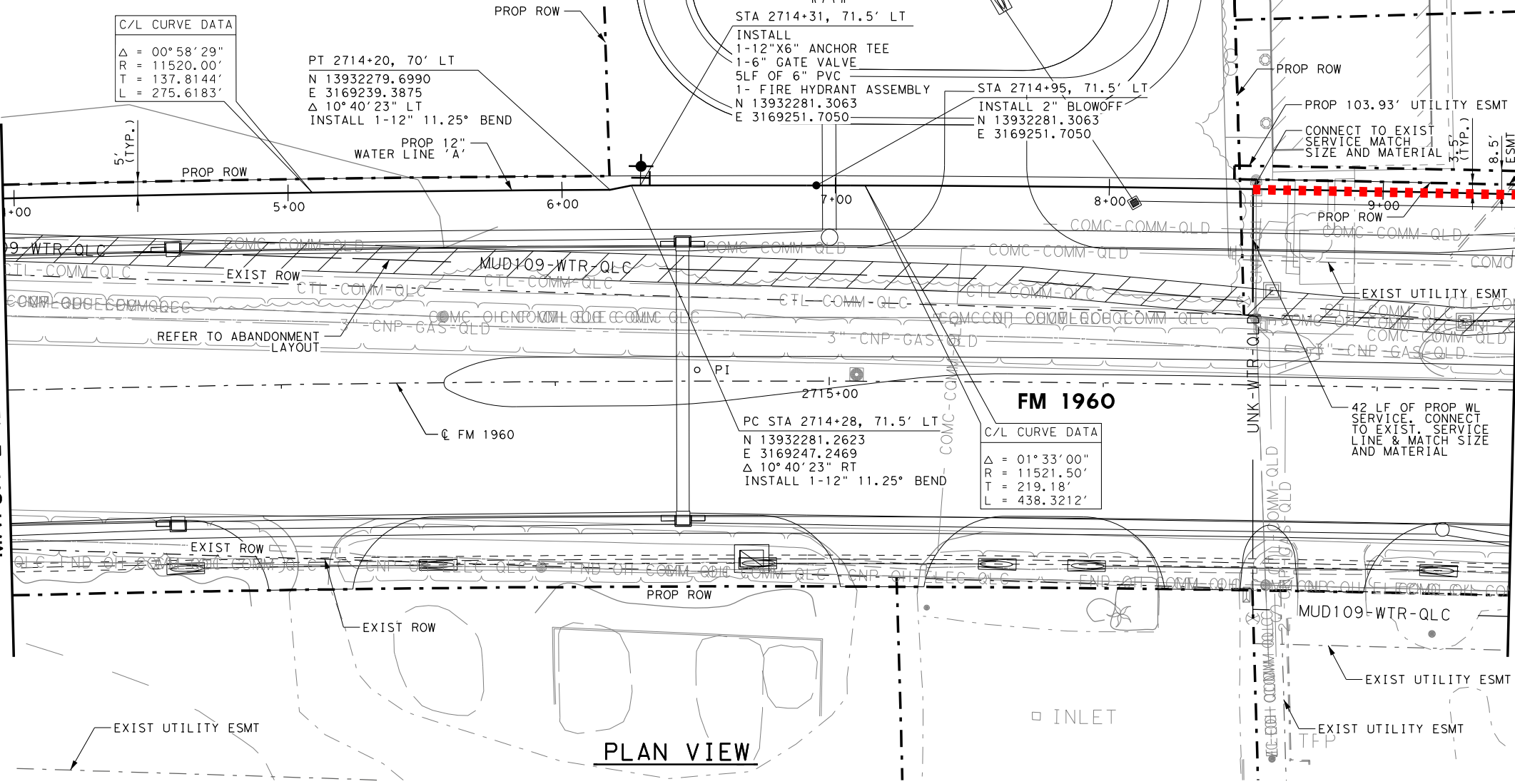
STA 2714+31, 71.5' LT
 INSTALL 1-12" X6" ANCHOR TEE
 1-6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932281.3063
 E 3169251.7050

STA 2714+95, 71.5' LT
 INSTALL 2" BLOWOFF
 N 13932281.3063
 E 3169251.7050



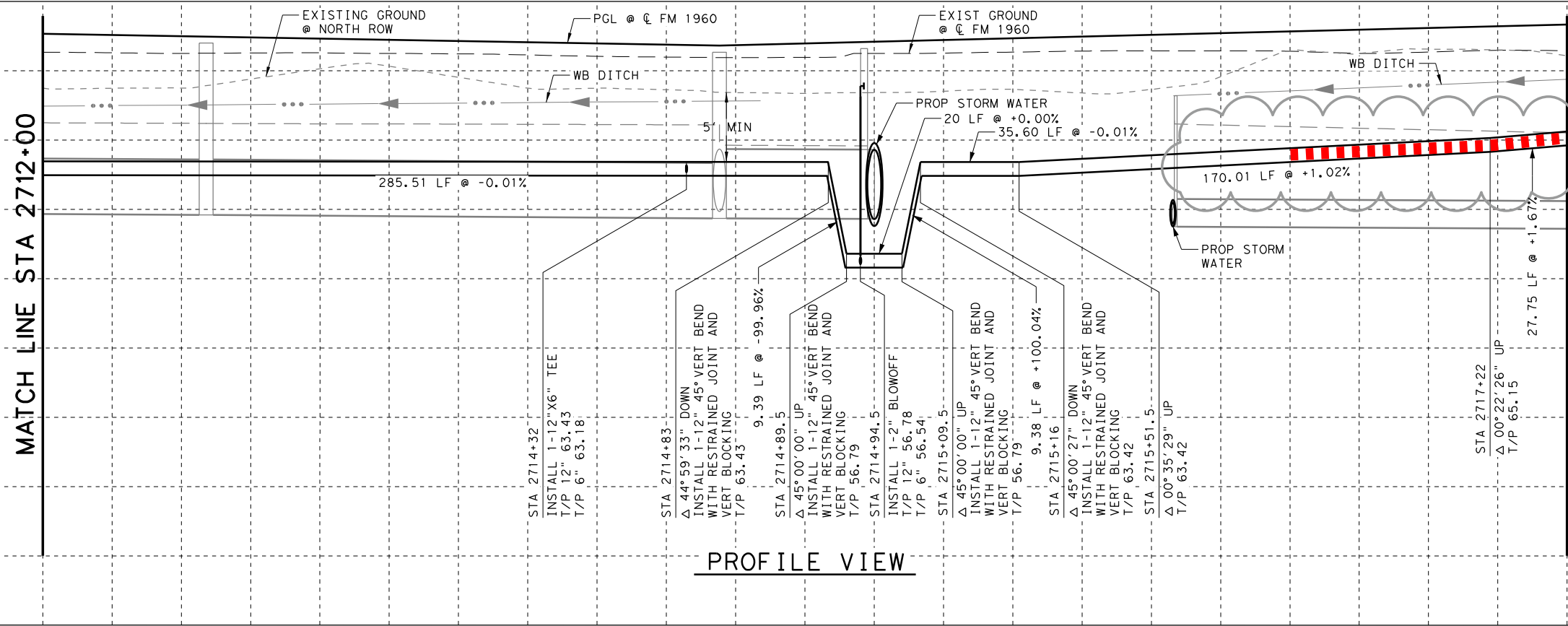
MATCH LINE STA 2712+00

MATCH LINE STA 2717+50



- NOTES:
1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
 2. REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
 3. ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
 4. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO PERFORMING THE WORK. EXIST UTILITY ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED.
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 6. CONTRACTOR SHALL LOCATE EXIST SERVICES. CONTRACTOR TO COORDINATE WITH MUD 109 TO REMOVE AND RELOCATE WATER METER/VAULT AND MAKE CONNECTIONS. REFER TO WATERLINE DETAILS FOR TYPICAL METER SETTINGS.

DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_31.dgn

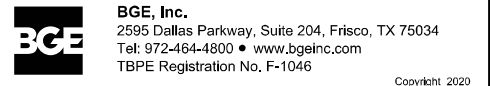
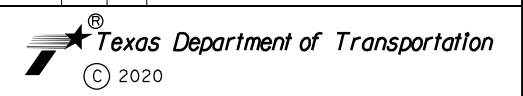


PROFILE VIEW

2715+00



DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	UPDATED 8" WTR LINE TO 12"



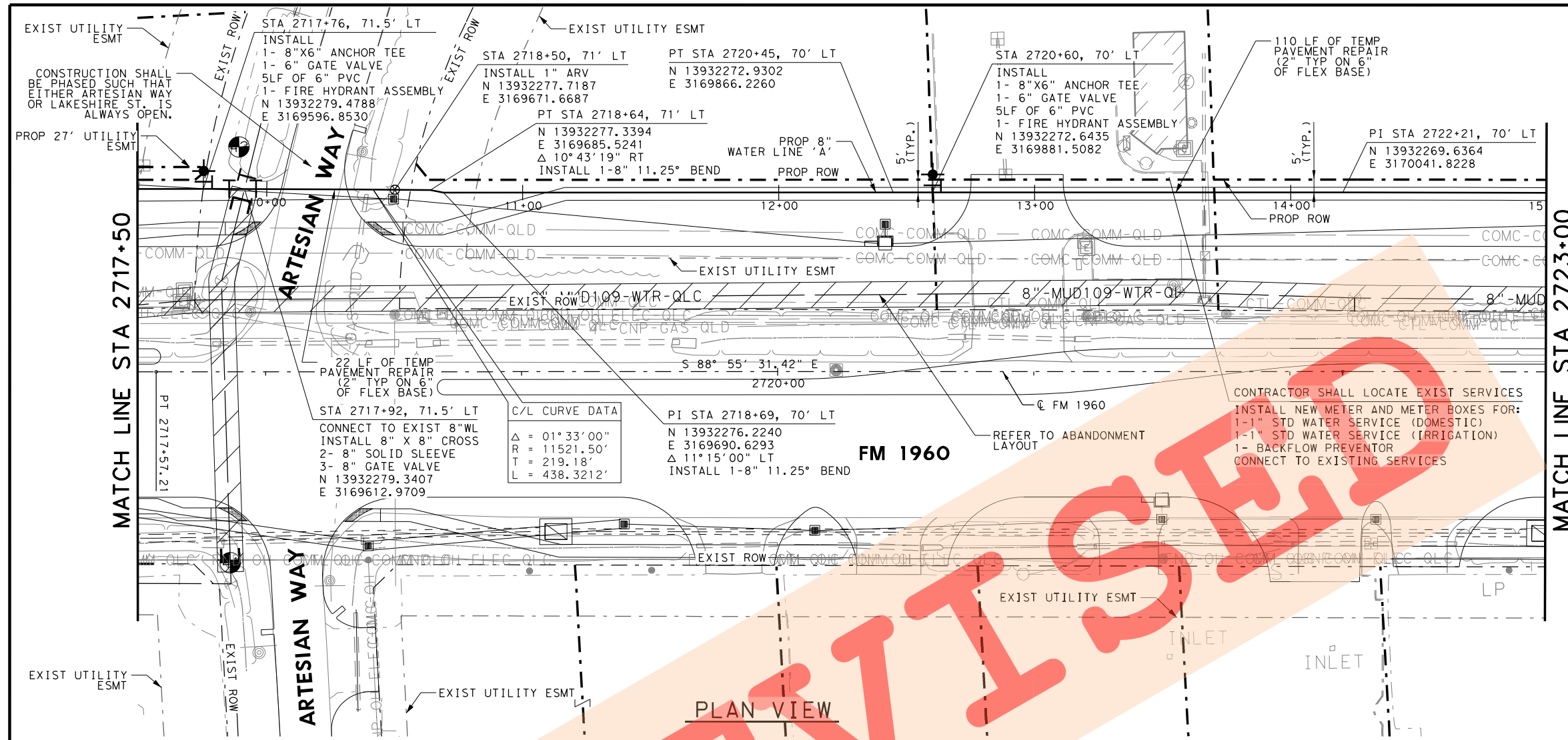
FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2712+00 TO 2717+50

(HC MUD 109) SHEET 2 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	520
CONTROL	SECTION	JOB	
1685	03	058	



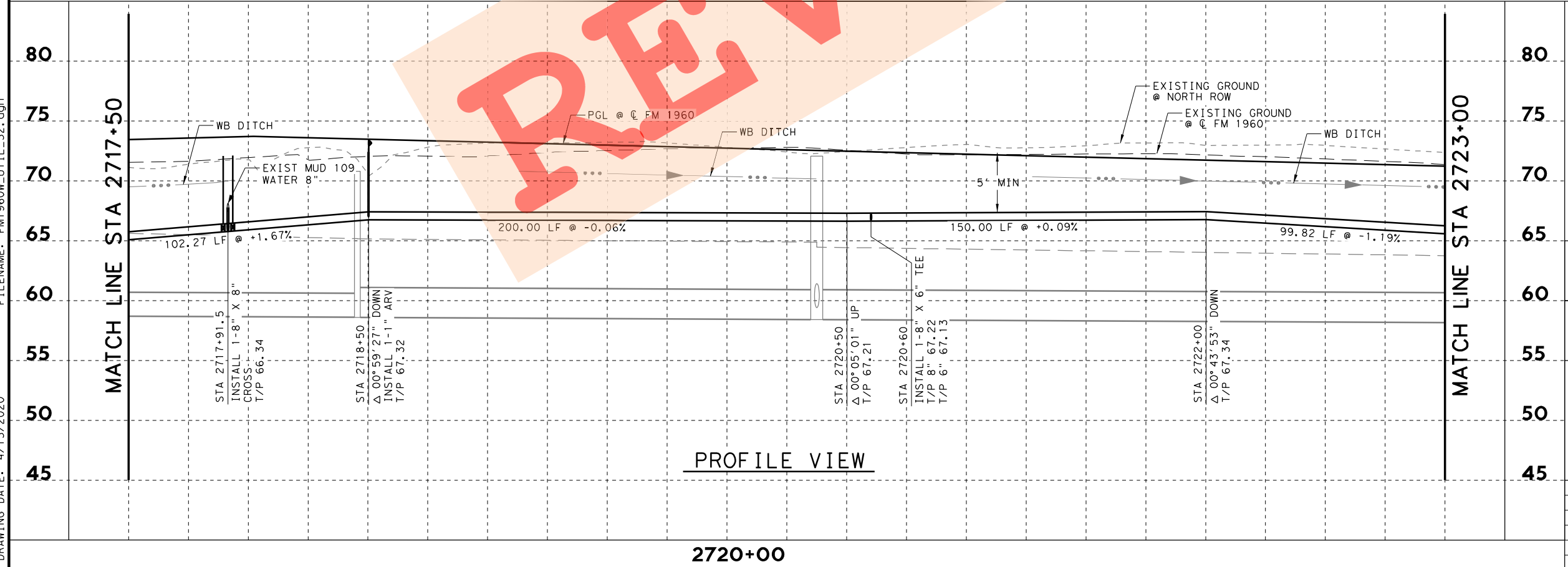
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



MATCH LINE STA 2723+00

MATCH LINE STA 2717+50

- NOTES:
1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
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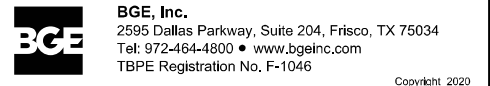
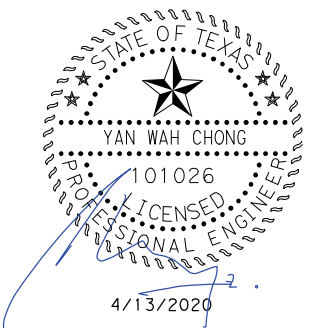


MATCH LINE STA 2723+00

MATCH LINE STA 2717+50

PROFILE VIEW

2720+00



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2717+50 TO 2723+00

(HC MUD 109)

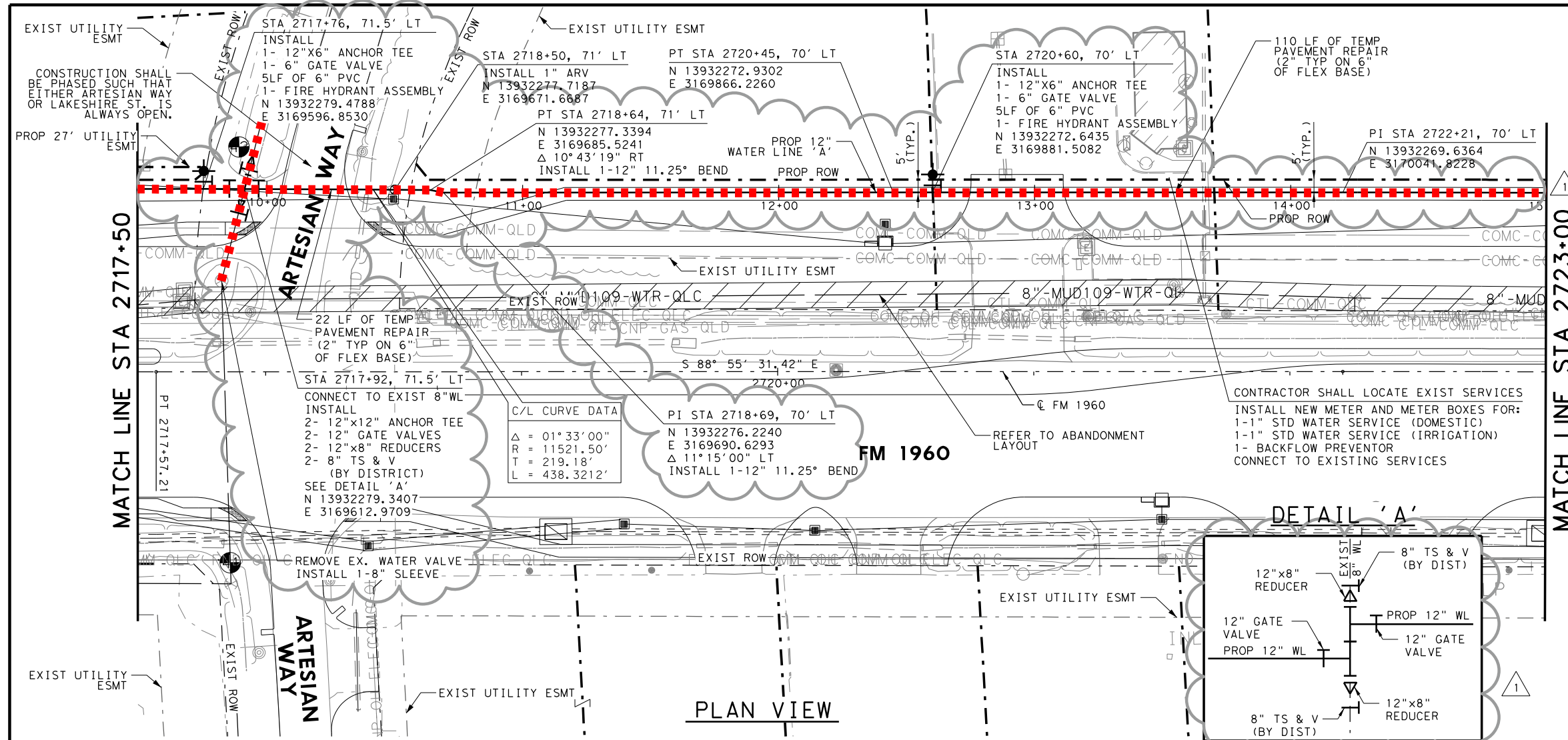
SHEET 3 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	521
1685	03	058	

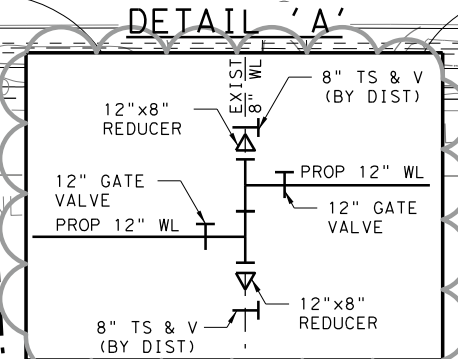
DRAWING DATE: 4/13/2020 FILENAME: FM1960W_UTIL_32.dgn



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

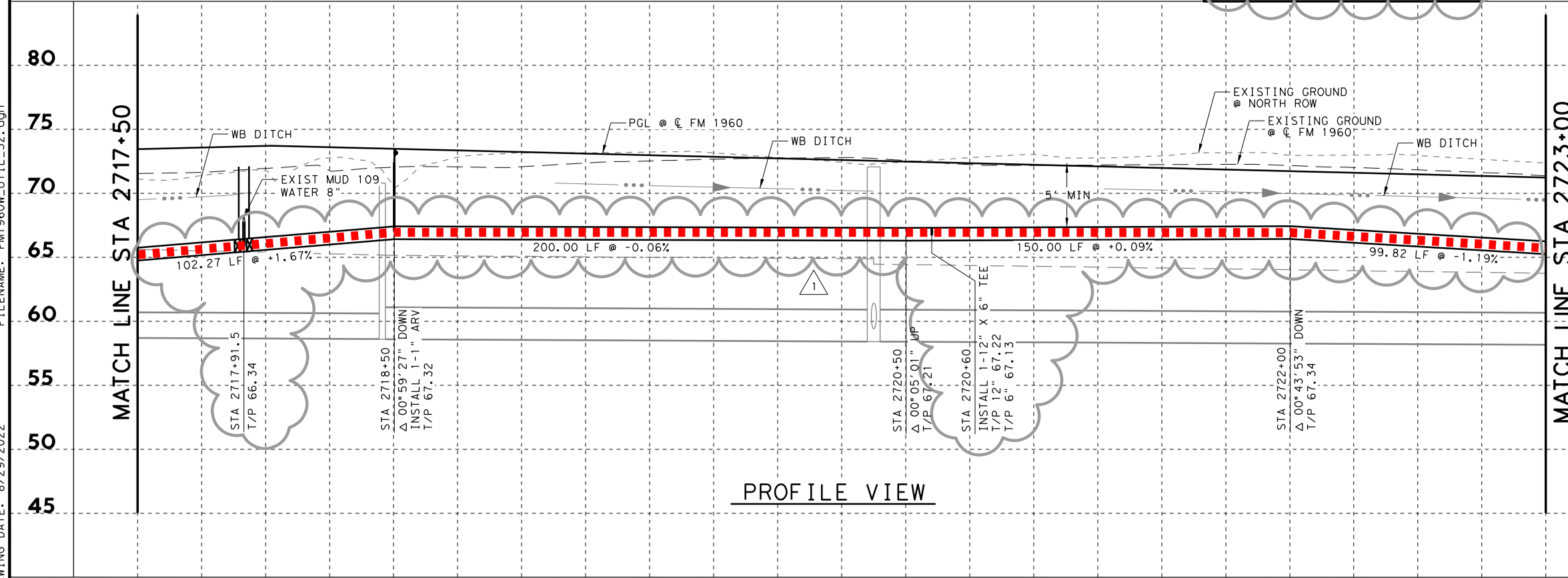


PLAN VIEW



DETAIL 'A'

- NOTES:
- CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
 - REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
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 - CONTRACTOR SHALL LOCATE EXIST SERVICES. CONTRACTOR TO COORDINATE WITH MUD 109 TO REMOVE AND RELOCATE WATER METER/VAULT AND MAKE CONNECTIONS. REFER TO WATERLINE DETAILS FOR TYPICAL METER SETTINGS.



PROFILE VIEW

STATE OF TEXAS
 YAN WAH CHONG
 101026
 LICENSED PROFESSIONAL ENGINEER
 8/29/2022

DATE	BY	REV	REVISION
8/29/2022	YWC	1	UPDATED PROP WL FROM 8" TO 12"

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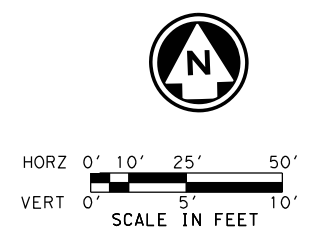
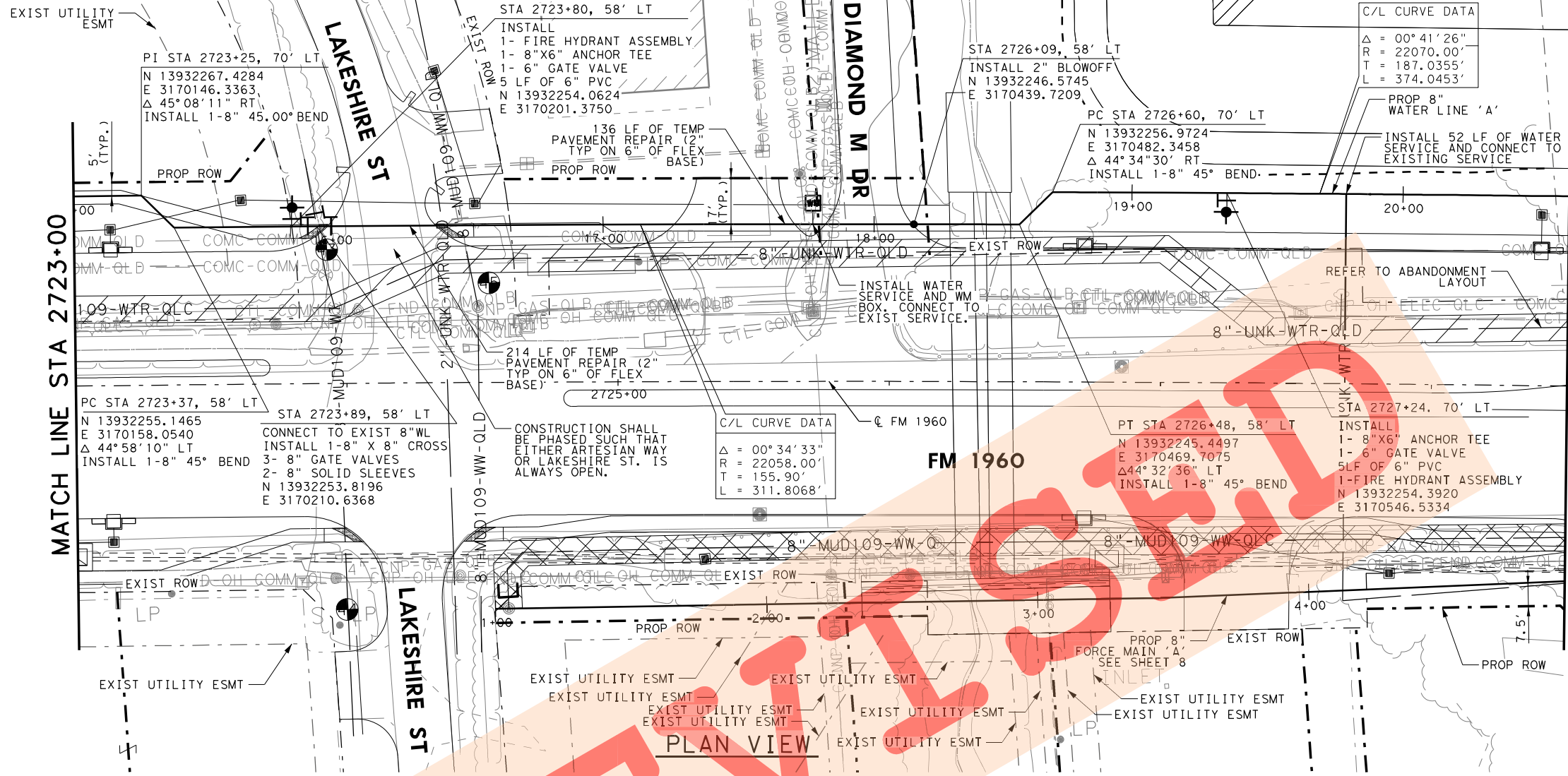
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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2717+50 TO 2723+00

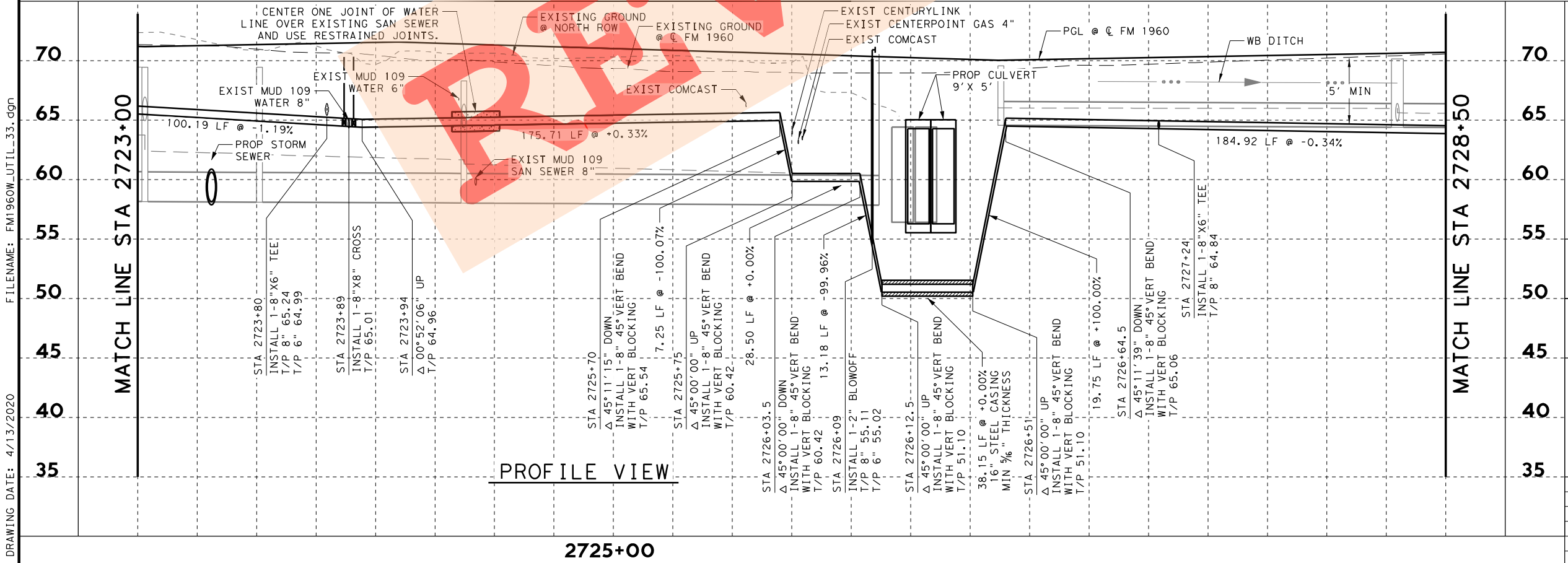
(HC MUD 109) SHEET 3 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	521

DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_32.dgn



- NOTES:
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YAN WAH CHONG
101026
PROFESSIONAL ENGINEER
4/13/2020

Texas Department of Transportation
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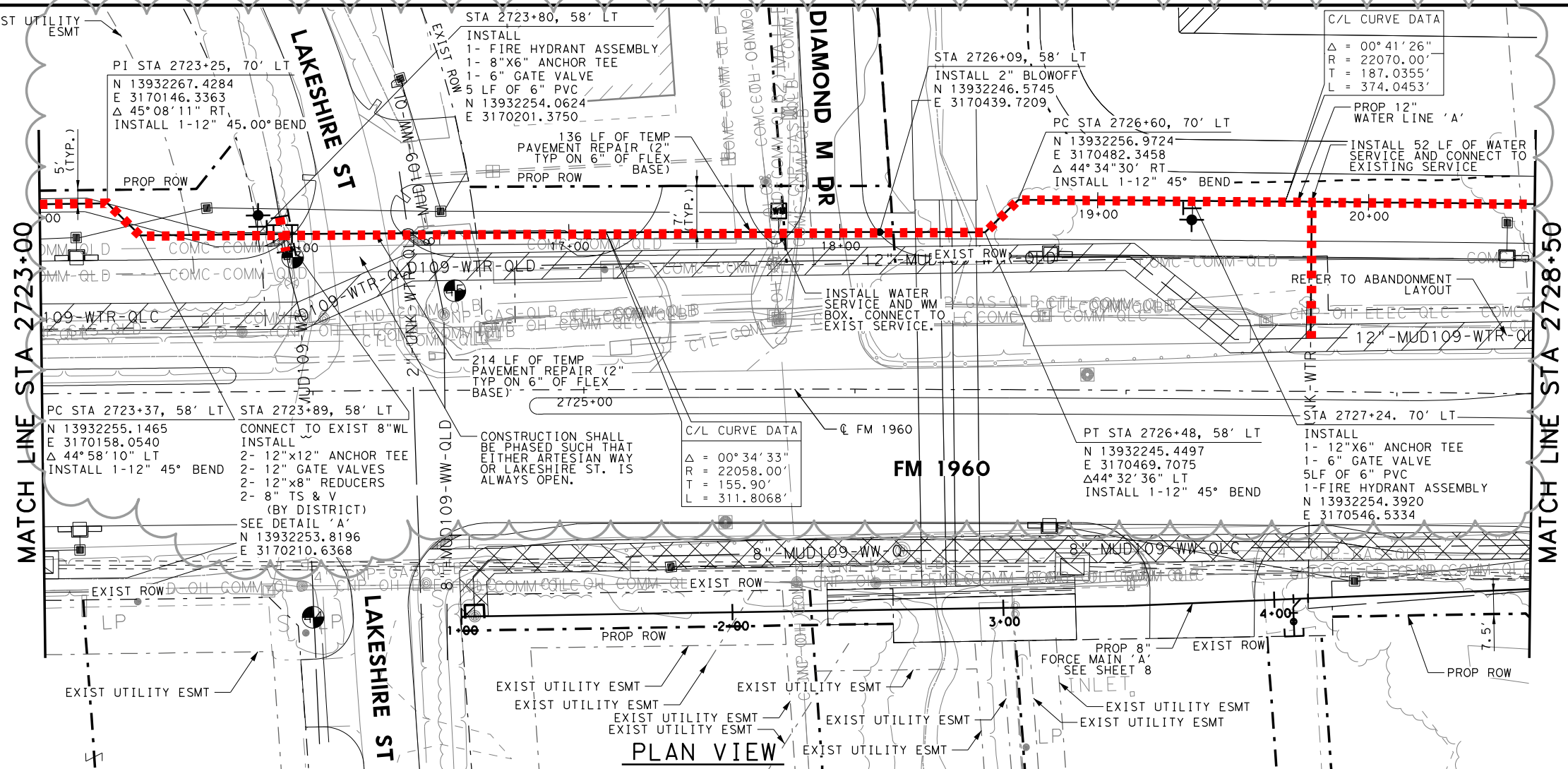
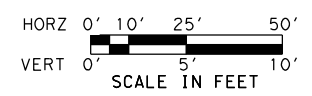
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TBPE Registration No. F-1046
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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2723+00 TO 2728+50

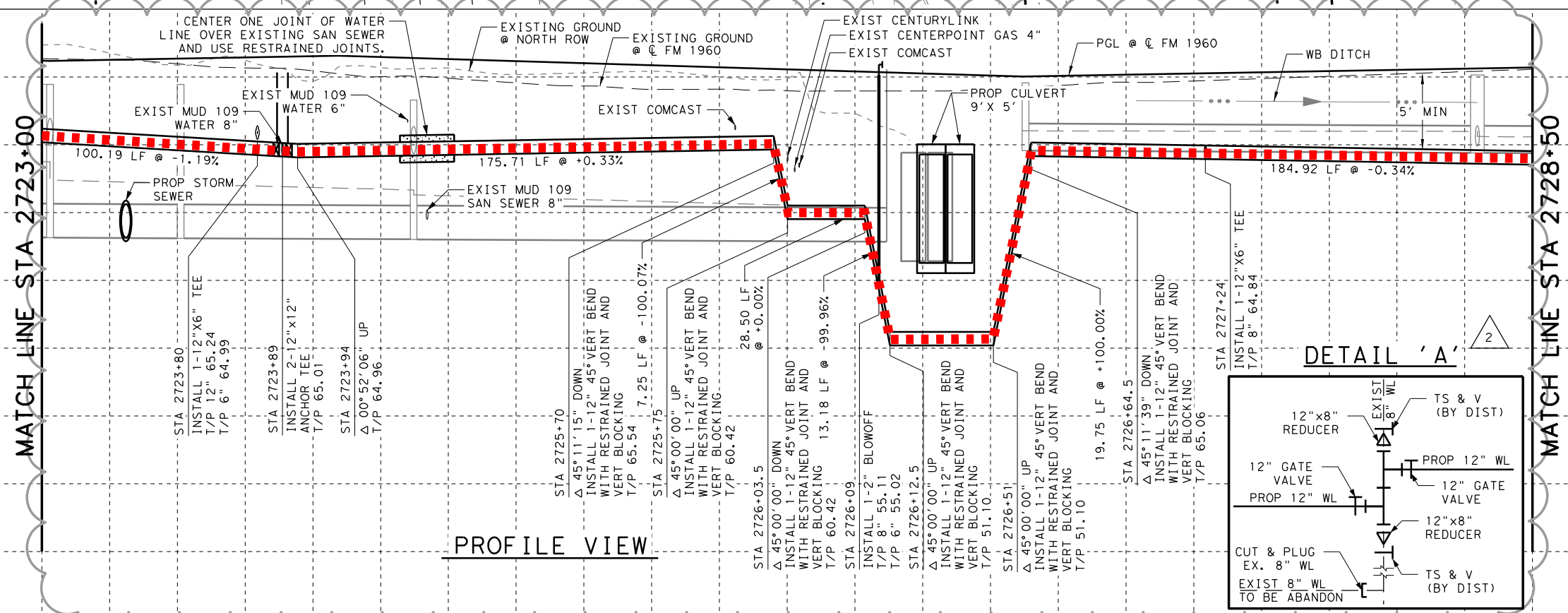
(HC MUD 109)

FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.	
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB		
1685	03	058	522	

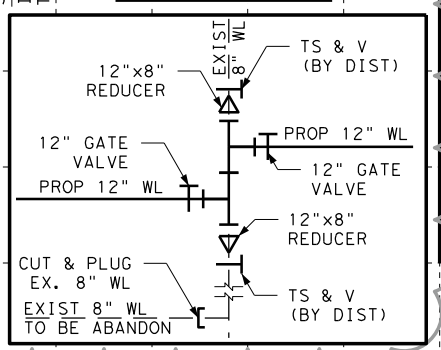
DRAWING DATE: 4/13/2020 FILENAME: FM1960W_UTIL_33.dgn



PLAN VIEW



PROFILE VIEW

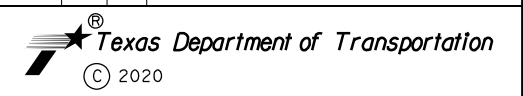


DETAIL 'A'

- NOTES:
1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
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DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL

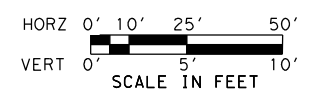


FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2723+00 TO 2728+50

(HC MUD 109) SHEET 4 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	522
1685	03	058	

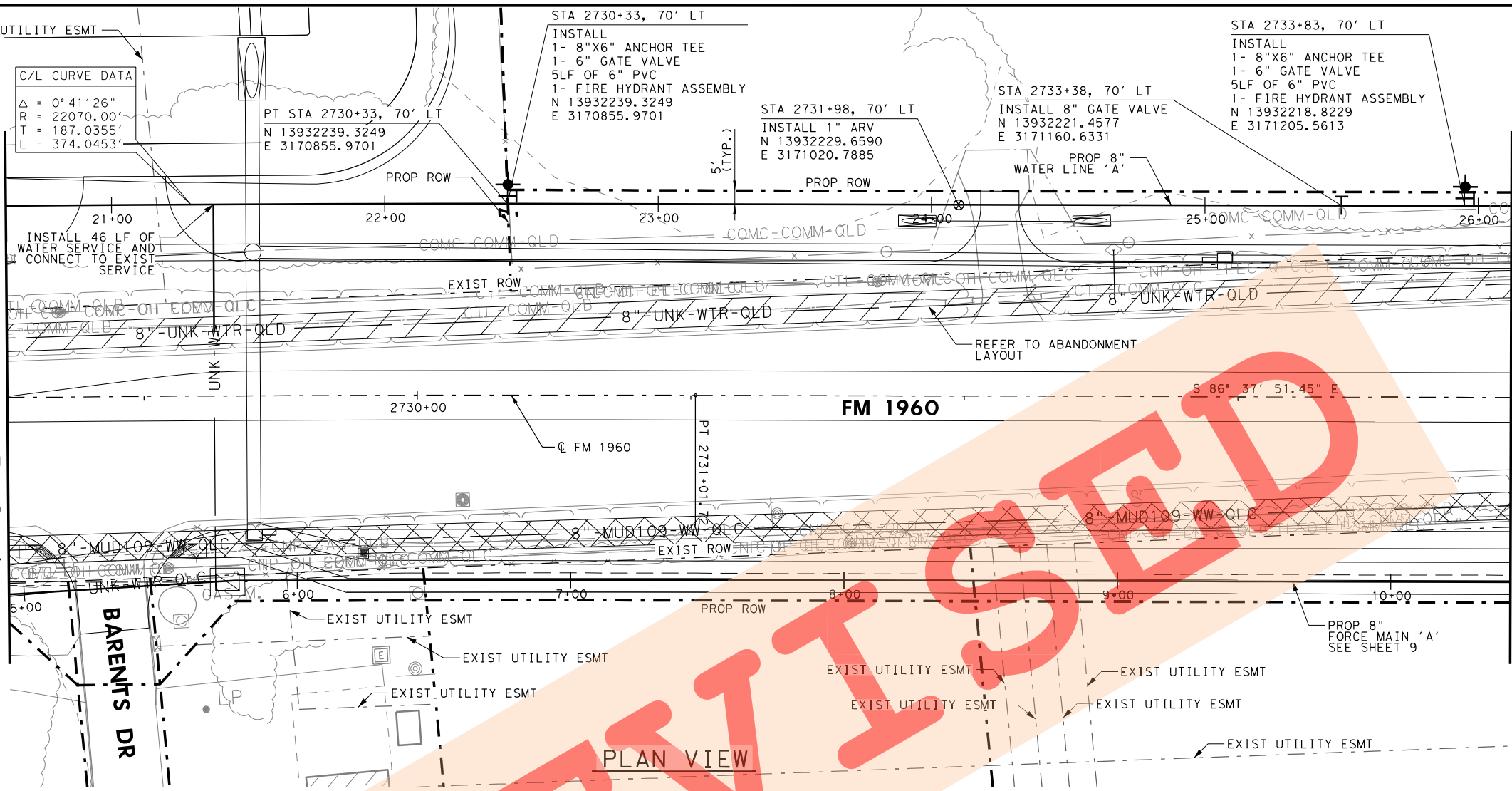
FILENAME: FM1960W_UTIL_33.dgn
 DRAWING DATE: 8/29/2022



C/L CURVE DATA
 $\Delta = 0^\circ 41' 26''$
 $R = 22070.00'$
 $T = 187.0355'$
 $L = 374.0453'$

MATCH LINE STA 2728+50

MATCH LINE STA 2734+00

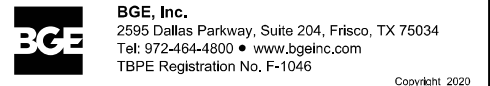
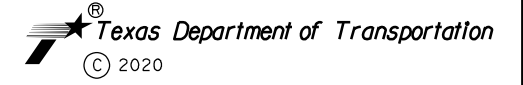
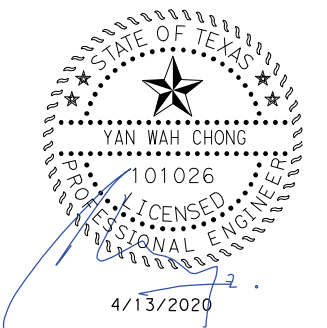
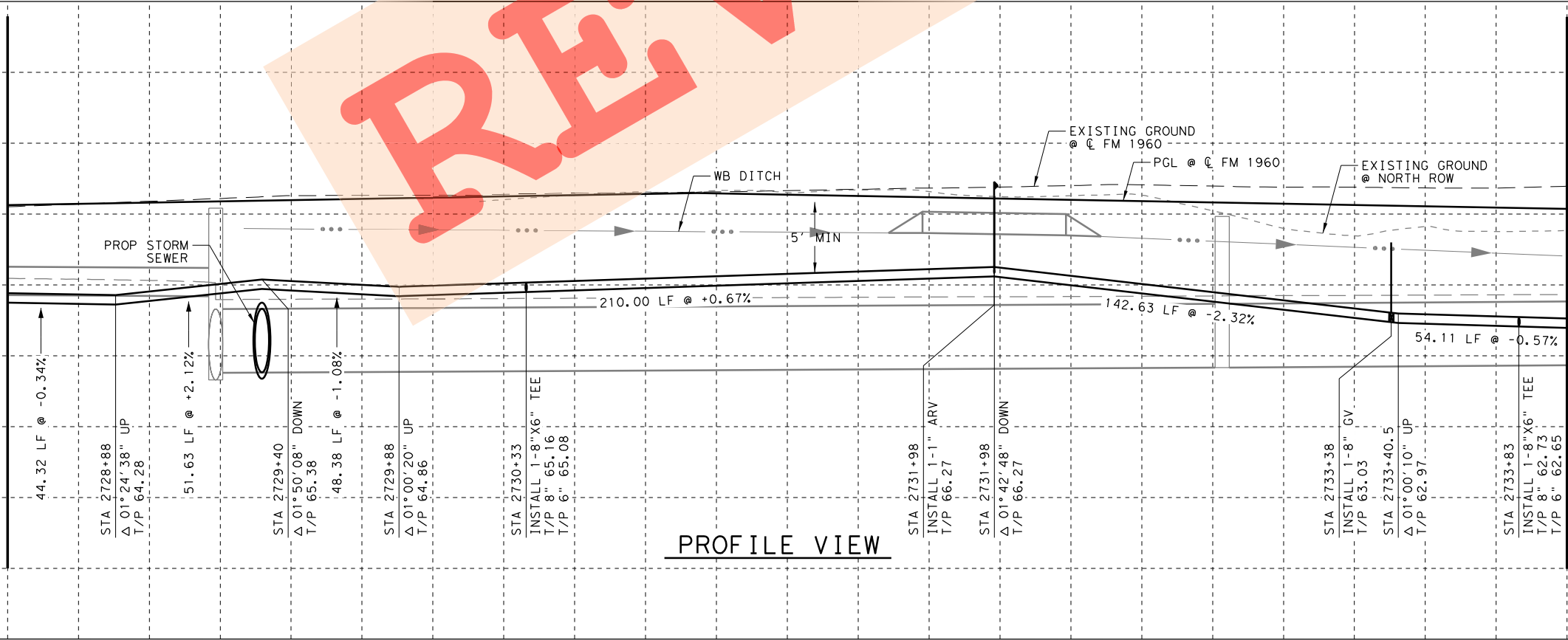


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FILENAME: FM1960W_UTIL_34.dgn
 DRAWING DATE: 4/13/2020

MATCH LINE STA 2728+50

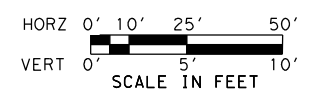
MATCH LINE STA 2734+00



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2728+50 TO 2734+00

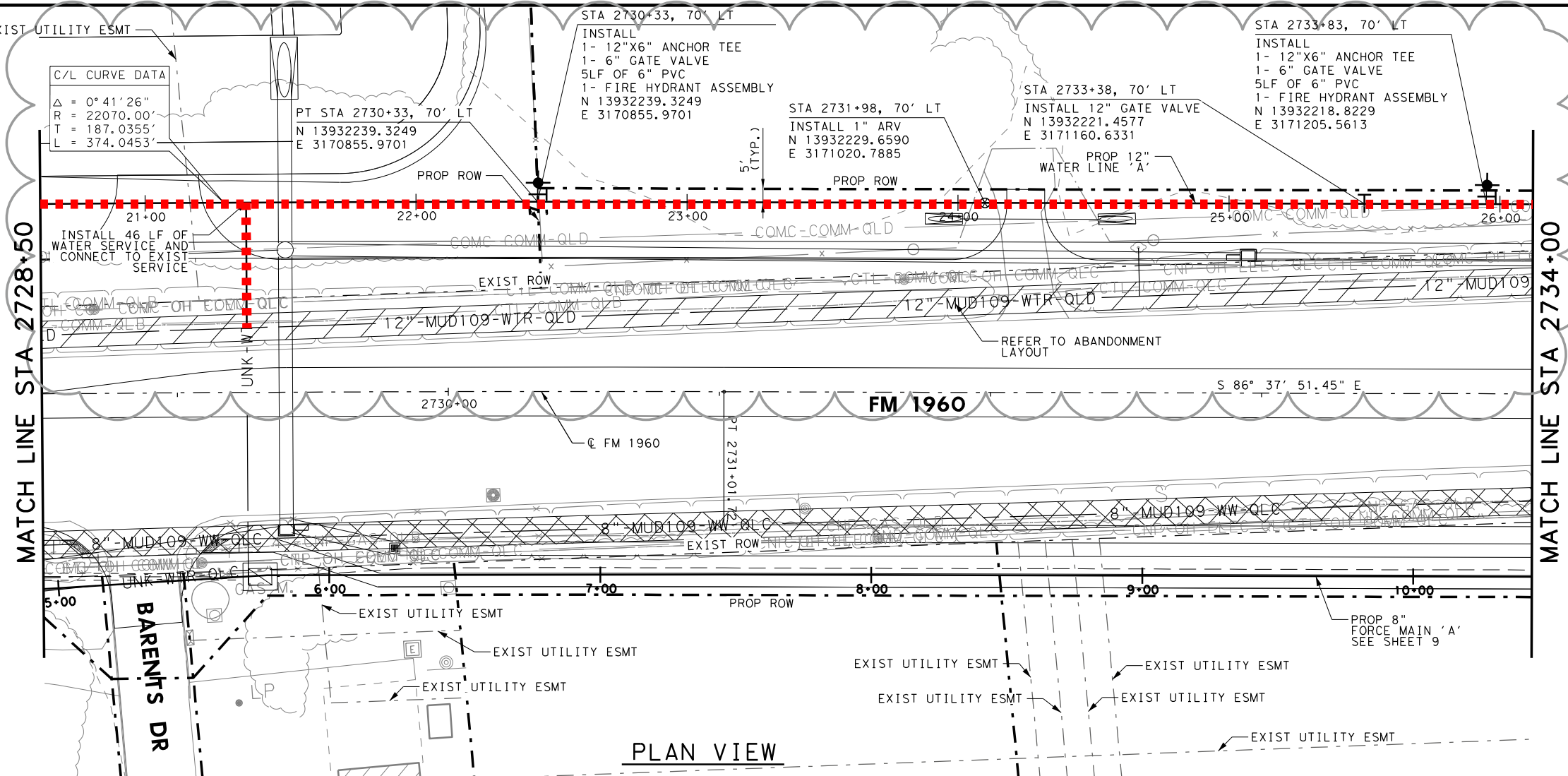
(HC MUD 109) SHEET 5 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	523
CONTROL	SECTION	JOB	
1685	03	058	

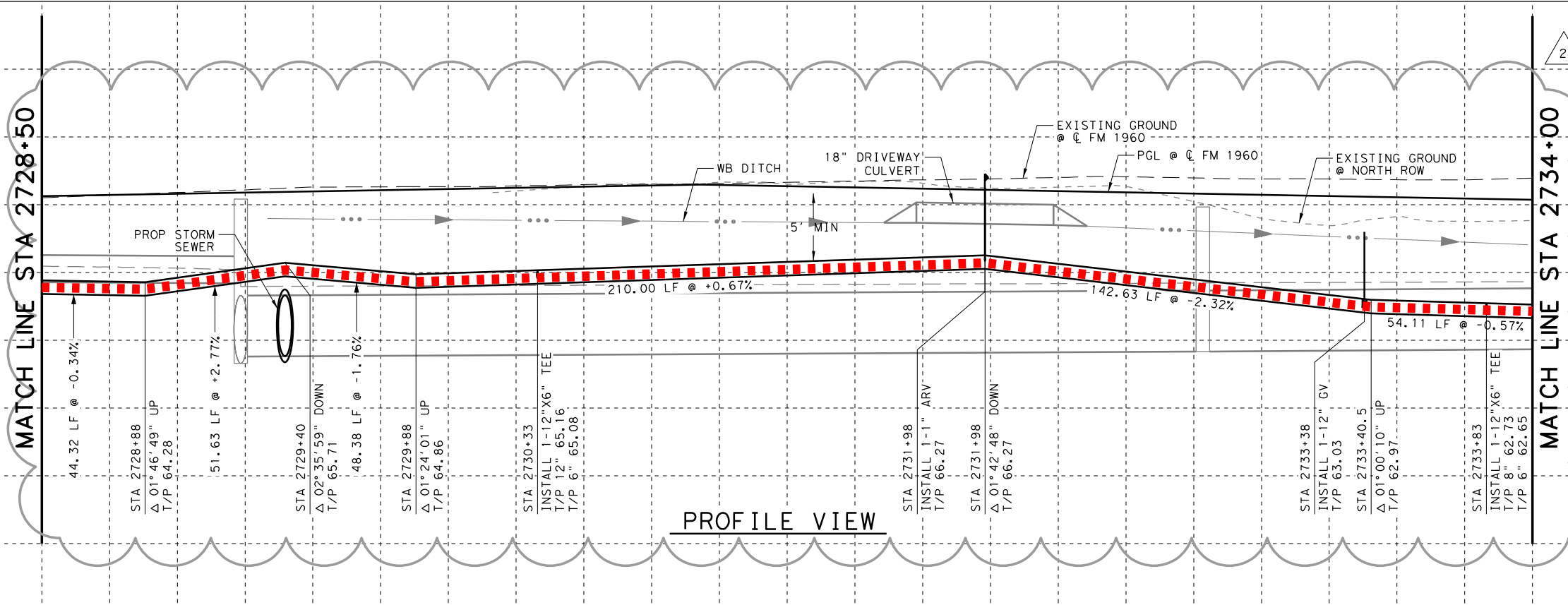


MATCH LINE STA 2728+50

MATCH LINE STA 2734+00



PLAN VIEW

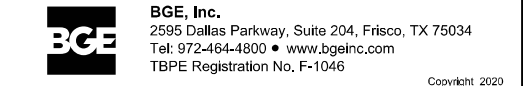
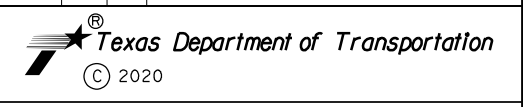


PROFILE VIEW

- NOTES:
1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
 2. REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
 3. ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
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STATE OF TEXAS
 YAN WAH CHONG
 101026
 LICENSED PROFESSIONAL ENGINEER
 8/29/2022

DATE	BY	REV	REVISION
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2728+50 TO 2734+00
 (HC MUD 109)

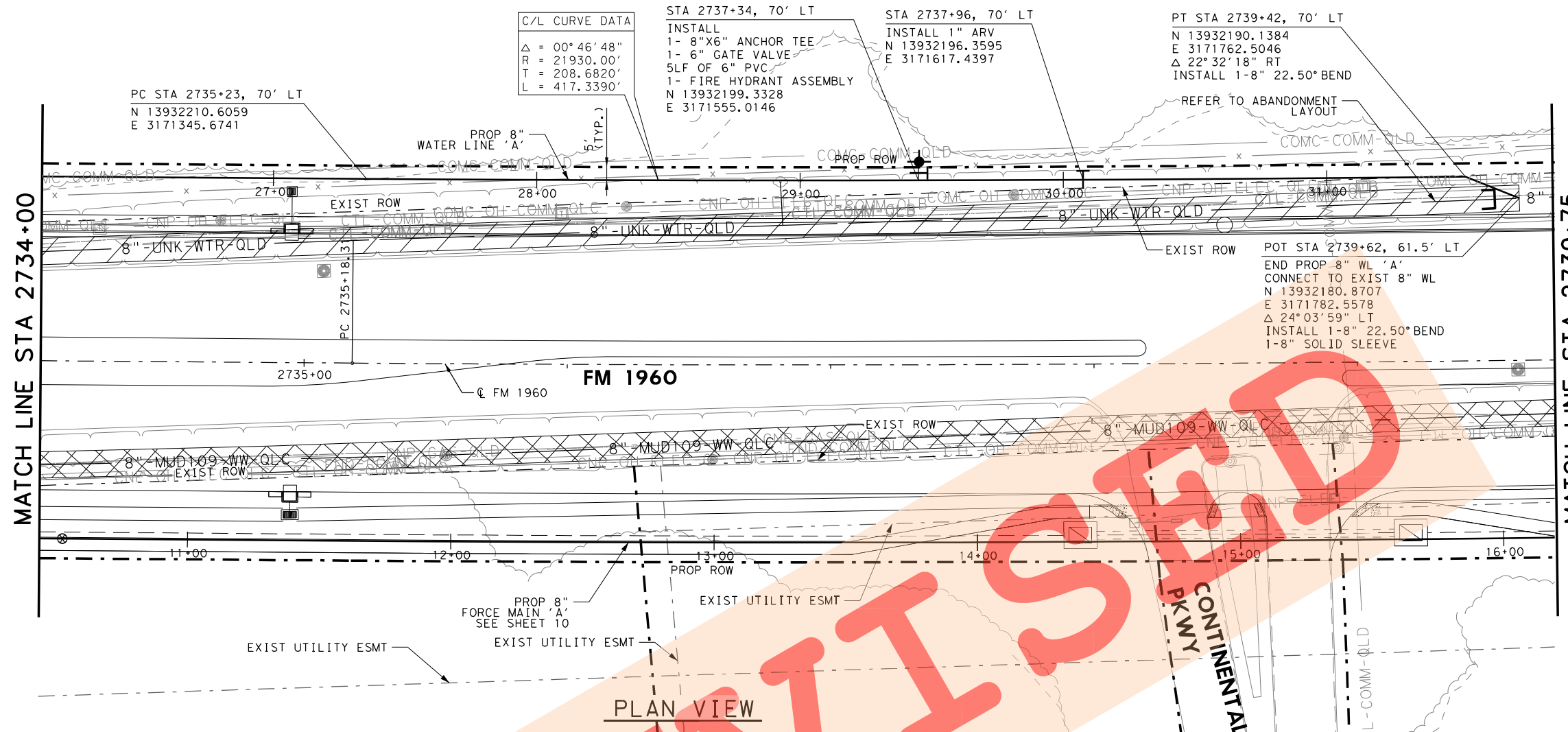
SHEET 5 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	523

FILENAME: FM1960W_UTIL_34.dgn
DRAWING DATE: 8/29/2022



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



C/L CURVE DATA
 $\Delta = 00^\circ 46' 48''$
 $R = 21930.00'$
 $T = 208.6820'$
 $L = 417.3390'$

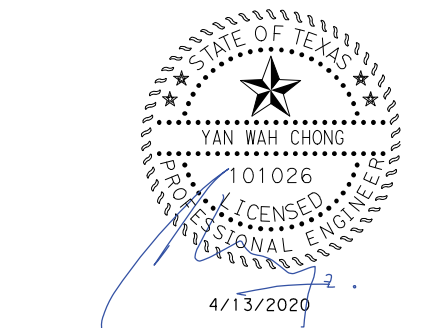
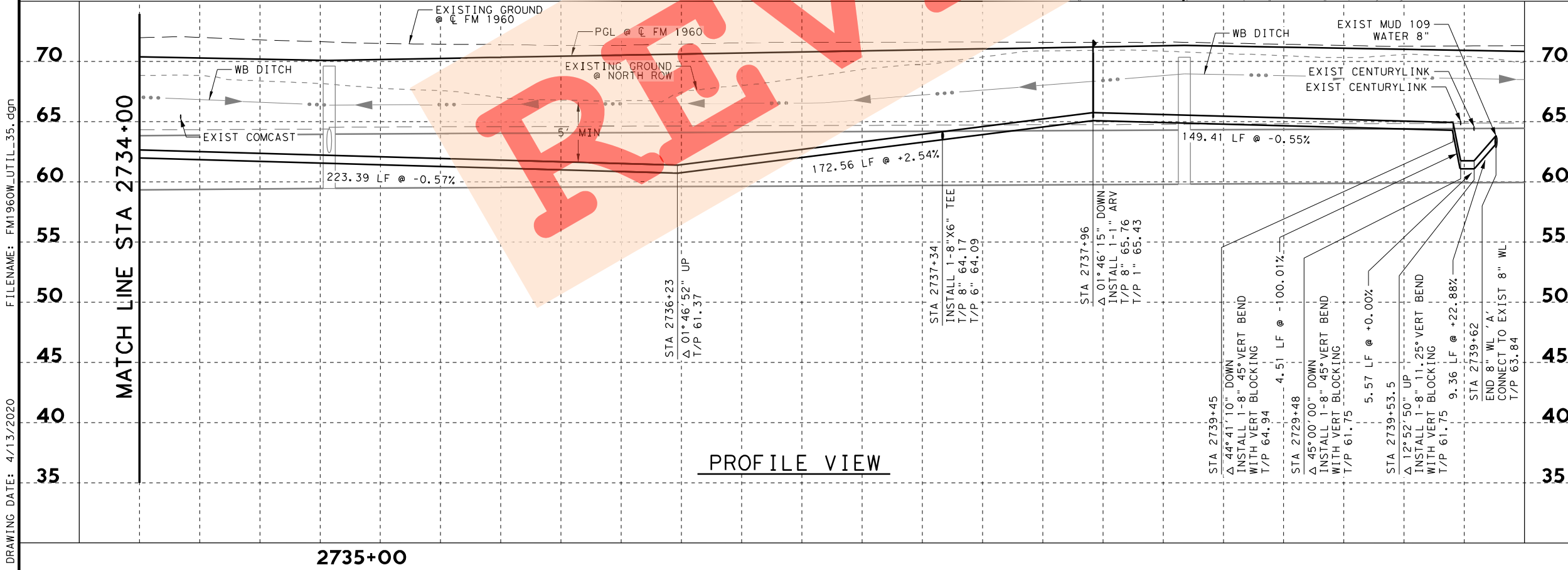
STA 2737+34, 70' LT
 INSTALL
 1- 8"X6" ANCHOR TEE
 1- 6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932199.3328
 E 3171555.0146

STA 2737+96, 70' LT
 INSTALL 1" ARV
 N 13932196.3595
 E 3171617.4397

PT STA 2739+42, 70' LT
 N 13932190.1384
 E 3171762.5046
 $\Delta 22^\circ 32' 18''$ RT
 INSTALL 1-8" 22.50° BEND
 REFER TO ABANDONMENT LAYOUT

POT STA 2739+62, 61.5' LT
 END PROP 8" WL 'A'
 CONNECT TO EXIST 8" WL
 N 13932180.8707
 E 3171782.5578
 $\Delta 24^\circ 03' 59''$ LT
 INSTALL 1-8" 22.50° BEND
 1-8" SOLID SLEEVE

- NOTES:
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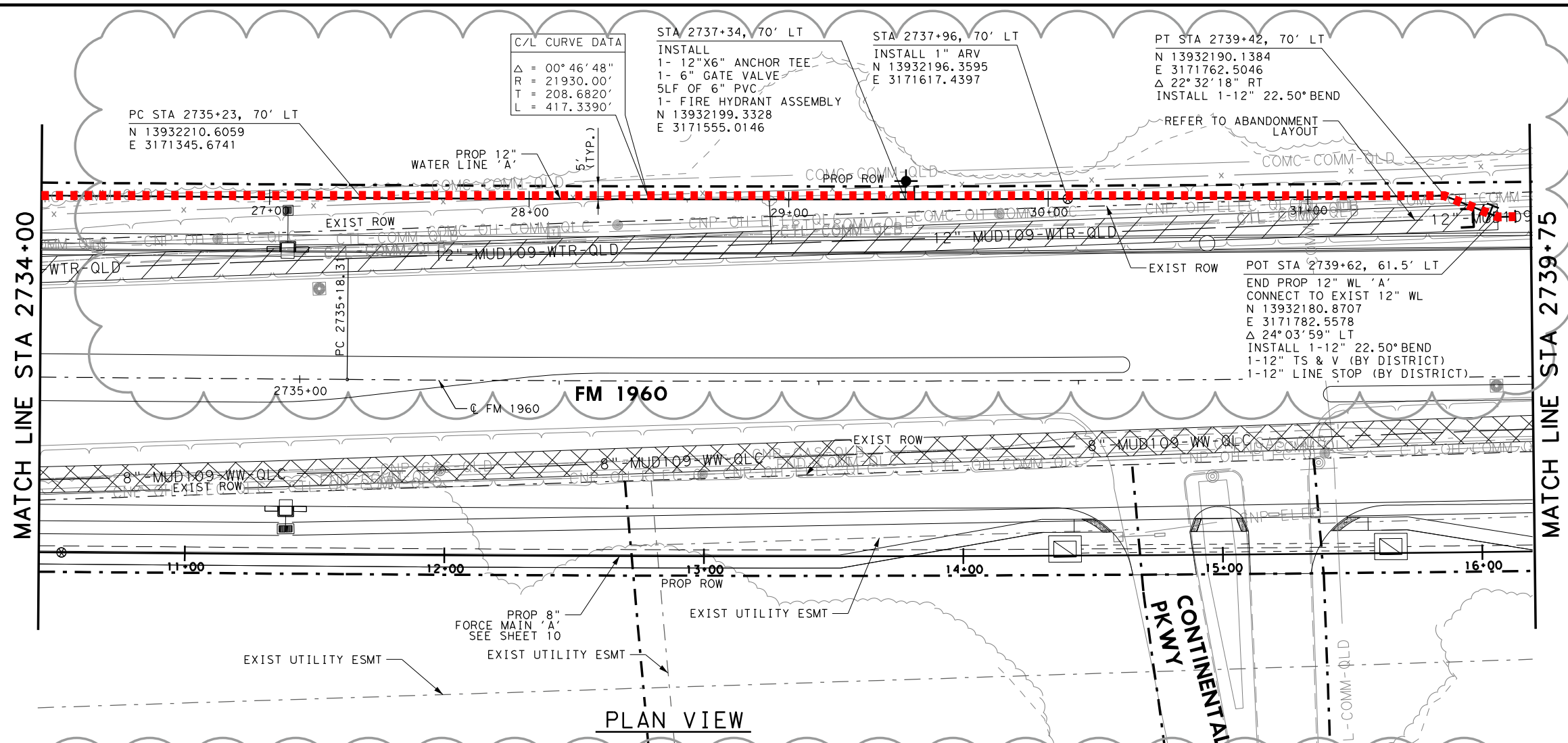
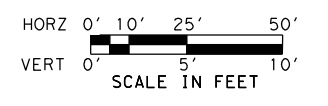
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 TBPE Registration No. F-1046
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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2734+00 TO 2739+75

SHEET 6 OF 14			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	524
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_UTIL_35.dgn
 DRAWING DATE: 4/13/2020



C/L CURVE DATA
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 $R = 21930.00'$
 $L = 208.6820'$
 $T = 417.3390'$

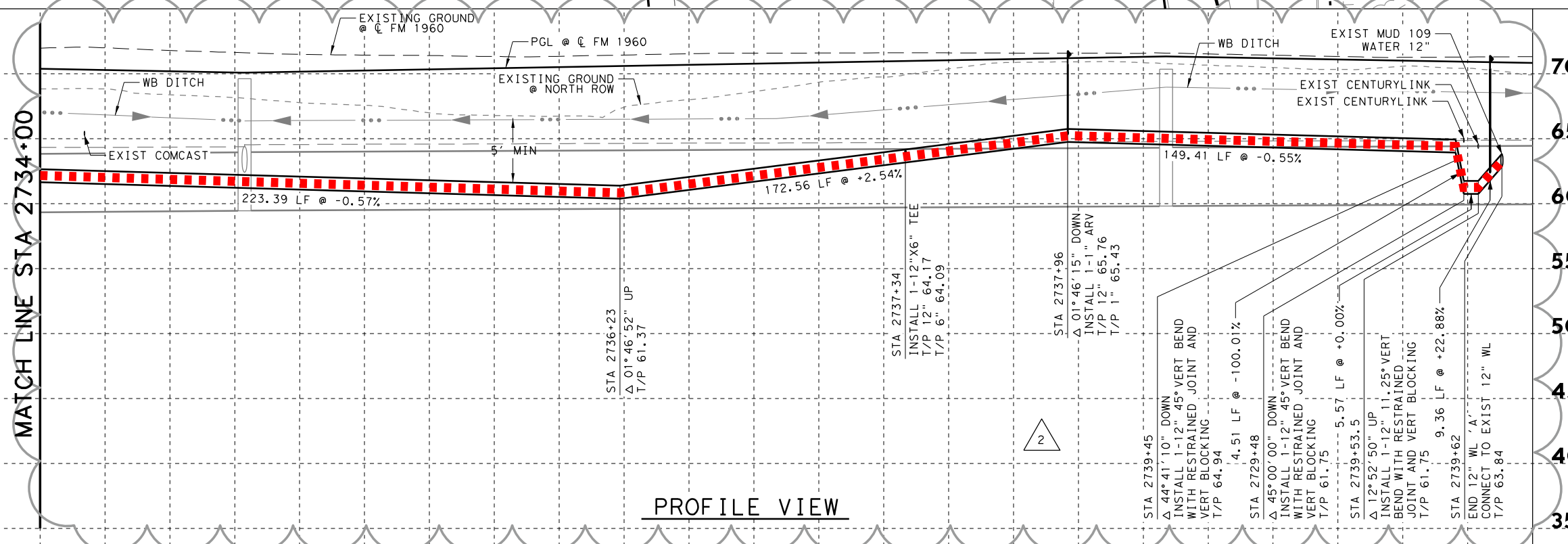
STA 2737+34, 70' LT
 INSTALL
 1- 12"x6" ANCHOR TEE
 1- 6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932199.3328
 E 3171555.0146

STA 2737+96, 70' LT
 INSTALL 1" ARV
 N 13932196.3595
 E 3171617.4397

PT STA 2739+42, 70' LT
 N 13932190.1384
 E 3171762.5046
 $\Delta 22^\circ 32' 18''$ RT
 INSTALL 1-12" 22.50° BEND
 REFER TO ABANDONMENT LAYOUT

POT STA 2739+62, 61.5' LT
 END PROP 12" WL 'A'
 CONNECT TO EXIST 12" WL
 N 13932180.8707
 E 3171782.5578
 $\Delta 24^\circ 03' 59''$ LT
 INSTALL 1-12" 22.50° BEND
 1-12" TS & V (BY DISTRICT)
 1-12" LINE STOP (BY DISTRICT)

- NOTES:
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STATE OF TEXAS
 YAN WAH CHONG
 101026
 LICENSED PROFESSIONAL ENGINEER
 8/29/2022

DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL

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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2734+00 TO 2739+75

(HC MUD 109) SHEET 6 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	524
CONTROL	SECTION	JOB	
1685	03	058	

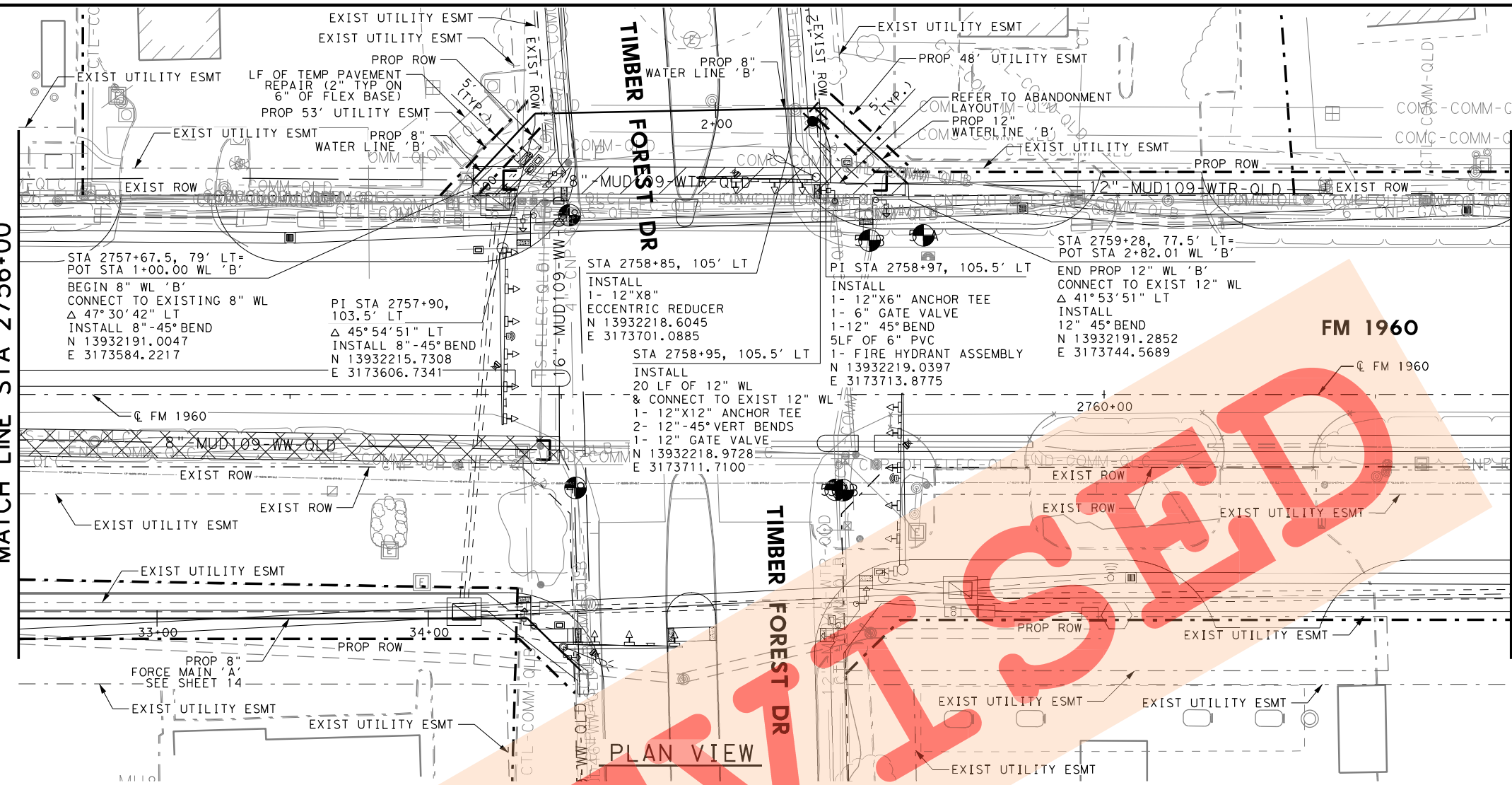
FILENAME: FM1960W_UTIL_35.dgn
 DRAWING DATE: 8/29/2022



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

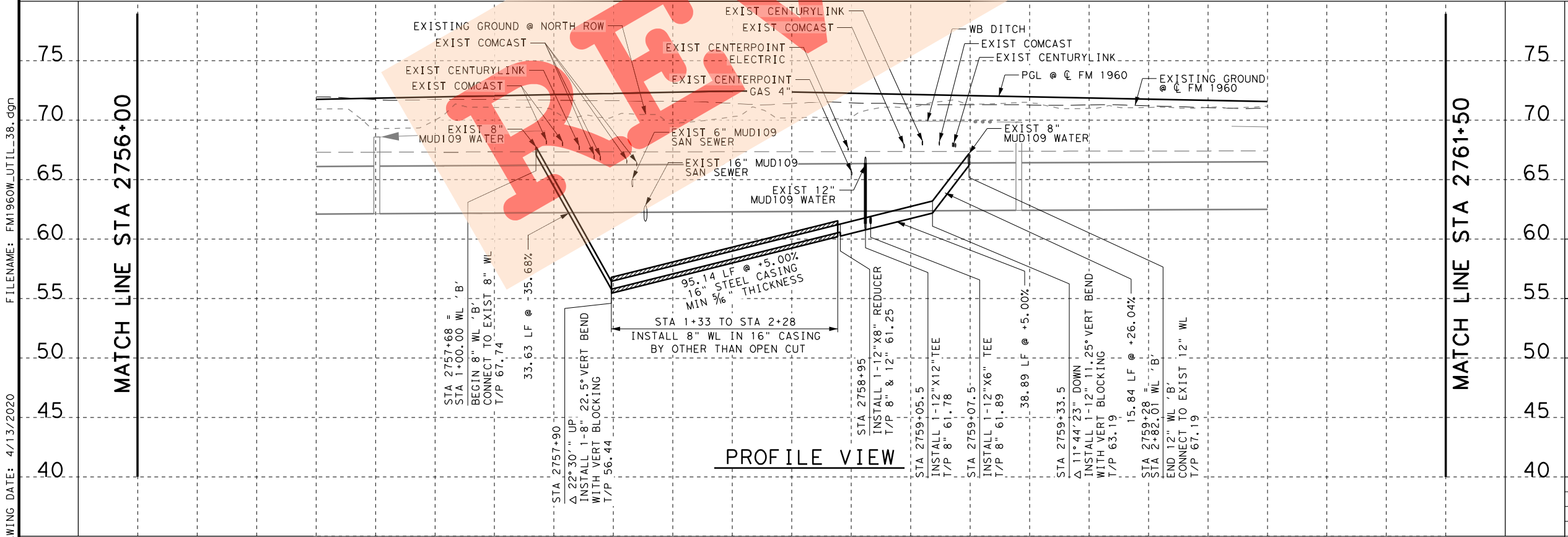
MATCH LINE STA 2756+00

MATCH LINE STA 2761+50



PLAN VIEW

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PROFILE VIEW

STATE OF TEXAS
 YAN WAH CHONG
 101026
 LICENSED PROFESSIONAL ENGINEER
 4/13/2020

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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'B'
 2756+00 TO 2761+50

(HC MUD 109)

FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY		SHEET NO.
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB		525
1685	03	058		

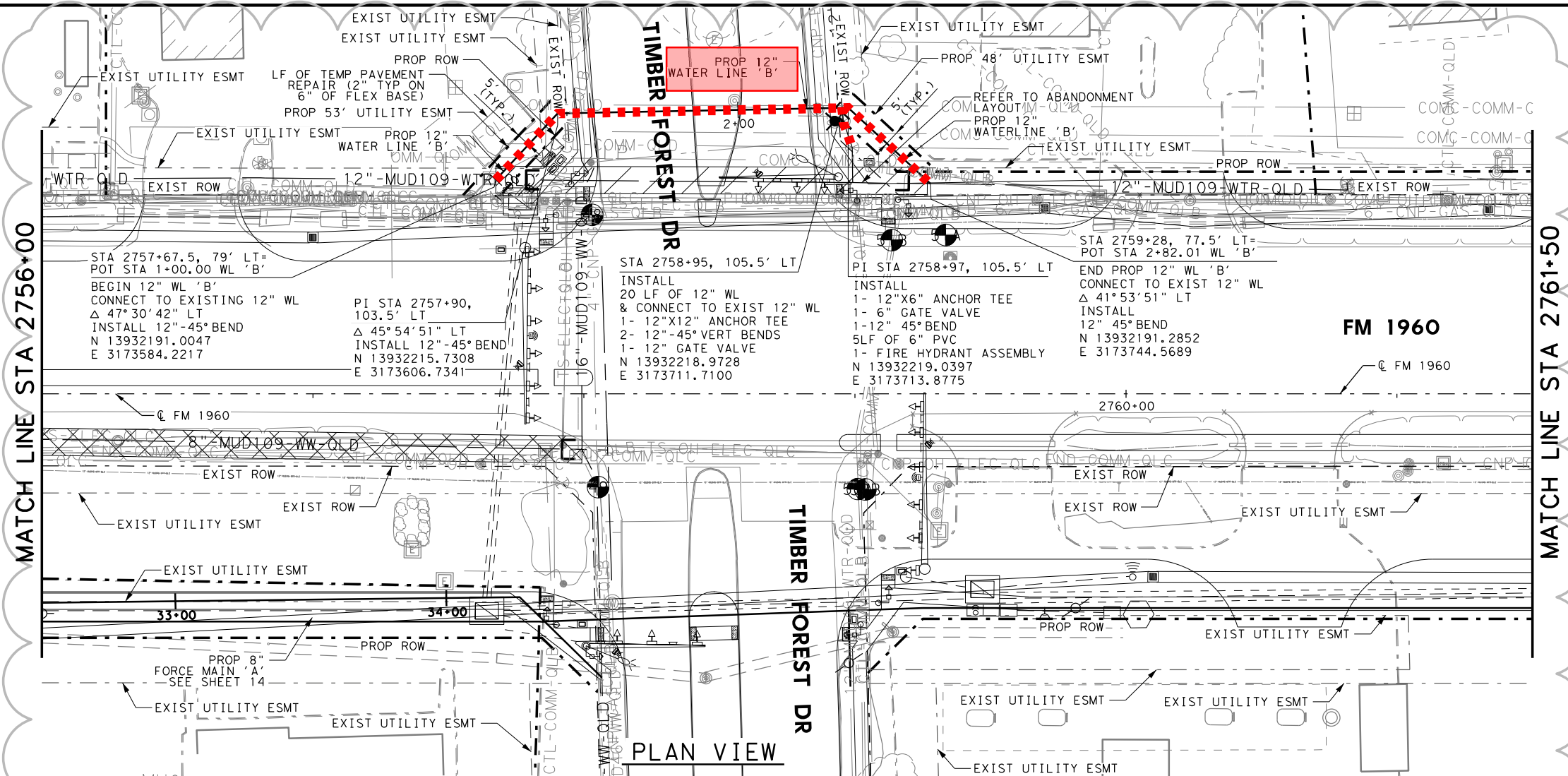
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DRAWING DATE: 4/13/2020

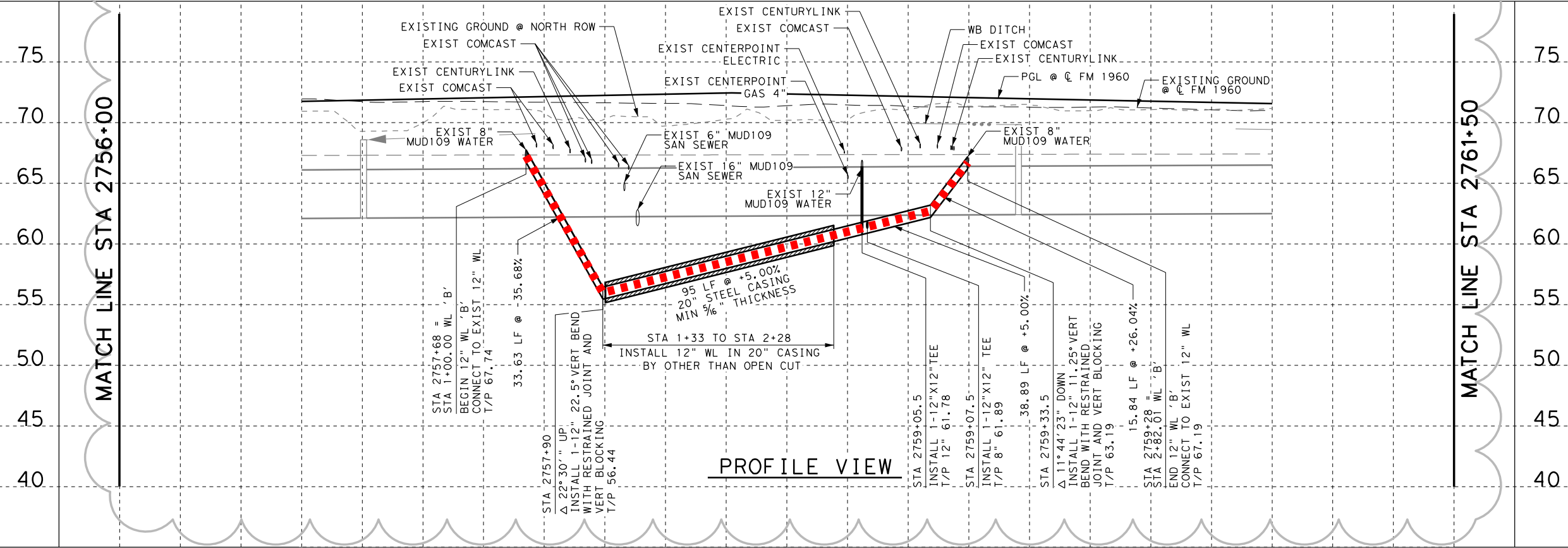
2760+00



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



PLAN VIEW

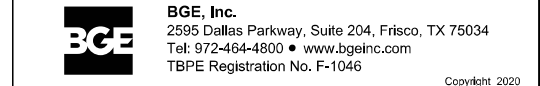
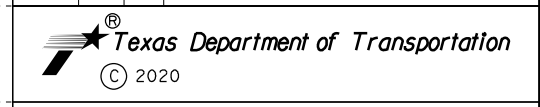


PROFILE VIEW

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DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'B'
 2756+00 TO 2761+50

FED. RD. DIV. NO.			FEDERAL AID PROJECT NO.		HIGHWAY NO.
6					FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.		
TEXAS	HOU	HARRIS	525		
CONTROL	SECTION	JOB			
1685	03	058			

DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_38.dgn

CONSTRUCTION PROJECT - AVERAGE LOW BID

District: ALL

UPDATED :: 09/12/2022

STATEWIDE						DISTRICT NAME:		
3 Month						12 Month		
STATEWIDE 3M COUNT	STATEWIDE 3M QUANTITY	STATEWIDE 3M AVG	STATEWIDE 12M COUNT	STATEWIDE 12M QUANTITY	STATEWIDE 12M AVG	DISTRICT NUMBER:		
			2	1,681.00	\$231.28			

ITEM CODE	ITEM DESCRIPTION	ITEM UNIT
71966039	PIPE WATER MAIN (PVC) (12")	LF

CONSTRUCTION PROJECT - AVERAGE LOW BID

District: ALL

UPDATED :: 09/12/2022

STATEWIDE DISTRICT NAME:
DISTRICT NUMBER:

ITEM CODE	ITEM DESCRIPTION	ITEM UNIT	3 Month			12 Month		
			STATEWIDE 3M COUNT	STATEWIDE 3M QUANTITY	STATEWIDE 3M AVG	STATEWIDE 12M COUNT	STATEWIDE 12M QUANTITY	STATEWIDE 12M AVG
72766066	ABANDON AND REMOVE EXISTING WATER LINE	EA				1	9,486.00	\$60.00

CONSTRUCTION PROJECT - AVERAGE LOW BID

District: ALL

UPDATED : 09/12/2022

			STATEWIDE						DISTRICT NAME: HOUSTON					
			3 Month			12 Month			3 Month			12 Month		
ITEM CODE	ITEM DESCRIPTION	ITEM UNIT	STATEWIDE 3M COUNT	STATEWIDE 3M QUANTITY	STATEWIDE 3M AVG	STATEWIDE 12M COUNT	STATEWIDE 12M QUANTITY	STATEWIDE 12M AVG	DISTRICT12 - 3M COUNT	DISTRICT12 - 3M QUANTITY	DISTRICT12 - 3M AVG	DISTRICT12 - 12M COUNT	DISTRICT12 - 12M QUANTITY	DISTRICT12 - 12M AVG
70166005	WATER MAIN (PVC)(C-900)(12")	LF				1	400.00	\$185.50						
70496014	WATER MAIN PIPE (PVC) (12IN) (C-900)	LF	1	2,753.00	\$126.87	2	2,808.00	\$129.40	1	2,753.00	\$126.87	2	2,808.00	\$129.40
71966039	PIPE WATER MAIN (PVC) (12")	LF				2	1,681.00	\$231.26						

Hughes, Jerry (Gulf Coast)

From: Bill Kotlan <BKotlan@bgeinc.com>
Sent: Wednesday, July 27, 2022 9:26 AM
To: Hughes, Jerry (Gulf Coast)
Cc: Darren Chong; Anthony.Landry@aecom.com; Michael Beckelman
Subject: [EXT] MUD 109 Waterline Relocation

Follow Up Flag: Follow up
Flag Status: Flagged

Jerry,

After some further review of the situation, the existing waterline from Artesian to Lakeshire is 8-inch as shown and does not need to be replaced. The limits of the 12-inch waterline that was incorrectly labeled as an 8-inch are 2723+89 to 2739+62 and 2757+68 to 2759+28. This is approximately 1,765 feet of 8-inch of which I understand that Line B (182 feet) has not been installed and that Line A (1,583 feet) has been installed. I understand that you are preparing prices for a change order. Please revise the scope of that work as appropriate.

Thanks for your help,

Bill Kotlan, PE
Director, Land Development
Associate

BGE, Inc.
1450 Lake Robbins Drive, Suite 310
The Woodlands, Texas 77380
Main: 281-210-5570
Direct: 832-592-2719
Cell: 936-718-5920



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CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you are expecting this email and know the contents are safe. ATTENTION: Ce courriel vient de l'extérieur de l'entreprise. Ne cliquez pas sur les liens, et n'ouvrez pas les pièces jointes, à moins que vous ne connaissiez l'expéditeur du courriel et savez que le contenu est sécuritaire.

LOCATION	# 162 6002	# 166 6001	# 168 6001	# 402 6001	7049 6017	7049 6068	7049 6076	7049 6077	7049 6104	7049 6115	7049 6116	7049 6119	7049 6127	7049 6129	7049 6140	7049 6142	7049 6185	7049 6200
	BLOCK SODDING	FERTILIZER	VEGETATIVE WATERING	TRENCH EXCAVATION PROTECTION	WATER MAIN PIPE (PVC) (12IN) (DR18) (C900)	JCK TUN BOR OR AUG CSG (STL) (16IN)	SERVICE LINE (SHORT SIDE) (1-1/2" TO 2")	SERVICE LINE (LONG SIDE) (1-1/2" TO 2")	FIRE HYDRANT ASSEMBLY	REMOVING WATER VALVE AND BOX	REMOVING AND RELOCATING METER AND BOX	REMOVING AND SALVAGING FIRE HYDRANT	CUT AND PLUG WATER MAIN (8IN)	CUT AND PLUG WATER MAIN (12IN)	WET CONNECTION (8IN)	WET CONNECTION (12IN)	CASING STEEL (16 IN)	WTR MAIN PIPE (PVC) (6 IN) (DR 18) (C900)
	SY	AC	MG	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA
CSJ 1685-03-058																		
A	270	0.1	12	3175	867	40	4	3	9	12	1	9	1	1	1	1	40	120
B	0	0	0	173	55	95	0	0	1	0	0	1	1	1	1	2	95	10
PROJECT TOTALS	270	0.1	12	3348	922	135	4	3	10	12	1	10	2	2	2	3	135	130

LOCATION	7049 6201	7049 6213	7049	* 7049	* 7049	* 7049	* 7049
	WTR MAIN PIPE (PVC) (8 IN) (DR 18) (C900)	2" BLOW-OFF VALVE	1" AIR RELEASE VALVE	GROUT ABANDONED LINES	12" GATE VALVE AND BOX	8" GATE VALVE AND BOX	DUCTILE IRON FITTINGS
	LF	EA	EA	CY	EA	EA	TON
CSJ 1685-03-058							
A	2325	2	3	64	1	7	2
B	127	0	0	18	1	0	1
PROJECT TOTALS	2452	2	3	82.0	2.0	7.0	3

NOTE:
WATER MAIN PIPE (PVC) INCLUDES ALL SUBSIDIARY ITEMS. SUBSIDIARY ITEMS TO INCLUDE BUT NOT LIMITED TO ALL OTHER NECESSARY APPURTENANCES FOR CARRIER PIPE; GROUT ABANDONED LINE, ALL GATE VALVES AND DUCTILE IRON FITTINGS.

LOCATION	# 402 6001	7017 6088	7017 6110	7017 6129	7017 6140	7017 6141	* 7017	* 7017
	TRENCH EXCAVATION PROTECTION	AIR RELEASE VALVE (2 IN)	POST CONSTRUCTION TELEVISION INSPECTION	REMOVE EXIST SAN SWR PIPE (8IN)	PRE-CONSTRUCTION TELEVISION INSPECTION	SAN SEWER (8IN) (DI) (RESTRAINED JT)	BYPASS SYSTEM	DUCTILE IRON FITTINGS
	LF	EA	LF	LF	LF	LF	LS	TON
CSJ 1685-03-058								
A	3360	3	3360	3351	3360	3360	1	1.03
PROJECT TOTALS	3360	3	3360	3351	3360	3360	1	1.03

* FOR CONTRACTOR'S INFORMATION ONLY

QUANTITIES ARE WITHIN THE AREA OF PROPOSED EASEMENT ONLY.



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN

**SUMMARY OF
UTILITY QUANTITIES**

(HC MUD 109)

SHEET 1 OF 1

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	31

FILENAME: FM1960W_Utility Quantities_1.dgn

DRAWING DATE: 4/29/2020

LOCATION	# 162 6002	# 166 6001	# 168 6001	# 402 6001	7049 6017	7049 6046	7049 6076	7049 6077	7049 6104	7049 6115	7049 6116	7049 6119	7049 6127	7049 6129	7049 6140	7049 6142	7049 6160	7049 6200
	BLOCK SODDING	FERTILIZER	VEGETATIVE WATERING	TRENCH EXCAVATION PROTECTION	WATER MAIN PIPE (PVC) (12IN) (DR18) (C900)	CASING STEEL (20IN)	SERVICE LINE (SHORT SIDE) (1-1/2" TO 2")	SERVICE LINE (LONG SIDE) (1-1/2" TO 2")	FIRE HYDRANT ASSEMBLY	REMOVING WATER VALVE AND BOX	REMOVING AND RELOCATING METER AND BOX	REMOVING AND SALVAGING FIRE HYDRANT	CUT AND PLUG WATER MAIN (8IN)	CUT AND PLUG WATER MAIN (12IN)	WET CONNECTION (8IN)	WET CONNECTION (12IN)	JCK TUN BOR OR AUG CSG (STL) (20IN)	WTR MAIN PIPE (PVC) (6 IN) (DR 18) (C900)
	SY	AC	MG	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF
CSJ 1685-03-058																		
A	270	0.1	12	3192	3192	0	4	3	9	12	1	9	1	1	1	1	0	120
B	0	0	0	87	182	95	0	0	1	0	0	1	1	1	1	2	95	10
PROJECT TOTALS	270	0.1	12	3279	3374	95	4	3	10	12	1	10	2	2	2	3	95	130

4

LOCATION	7049 6201	7049 6213	7049	* 7049	* 7049	* 7049	* 7049
	WTR MAIN PIPE (PVC) (8 IN) (DR 18) (C900)	2" BLOW-OFF VALVE	1" AIR RELEASE VALVE	GROUT ABANDONED LINES	12" GATE VALVE AND BOX	8" GATE VALVE AND BOX	DUCTILE IRON FITTINGS
	LF	EA	EA	CY	EA	EA	TON
CSJ 1685-03-058							
A	0	2	3	64	5	0	2
B	0	0	0	18	1	0	1
PROJECT TOTALS	0	2	3	82.0	6.0	0	3

4

4

NOTE:

WATER MAIN PIPE (PVC) AND SANITARY SEWER PIPE (DI) INCLUDES ALL SUBSIDIARY ITEMS. SUBSIDIARY ITEMS TO INCLUDE BUT NOT LIMITED TO ALL OTHER NECESSARY APPURTENANCES FOR CARRIER PIPE; GROUT ABANDONED LINE, ALL GATE VALVES AND DUCTILE IRON FITTINGS.

LOCATION	# 402 6001	7017 6088	7017 6030	7017 6110	7017 6129	7017 6140	7017 6141	* 7017	* 7017	* 7017
	TRENCH EXCAVATION PROTECTION	AIR RELEASE VALVE (2 IN)	SANITARY SEWER (4 IN) (DI)	POST CONSTRUCTION TELEVISION INSPECTION	REMOVE EXIST SAN SWR PIPE (8IN)	PRE-CONSTRUCTION TELEVISION INSPECTION	SAN SEWER (8IN) (DI) (RESTRAINED JT)	4" ECCENTRIC PLUG VALVE	BYPASS SYSTEM	DUCTILE IRON FITTINGS
	LF	EA	LF	LF	LF	LF	LF	EA	LS	TON
CSJ 1685-03-058										
A	3380	3	15	3380	3351	3380	3380	1	1	1
PROJECT TOTALS	3380	3	15	3380	3351	3380	3380	1	1	1

* FOR CONTRACTOR'S INFORMATION ONLY

QUANTITIES ARE WITHIN THE AREA OF PROPOSED EASEMENT ONLY.

DATE	BY	REV	REVISION
10/7/2021	YWC	1	REVISED NOTE AND QUANTITIES
2/8/2022	YWC	2	REVISED QUANTITIES
8/11/2022	YWC	3	REVISED QUANTITIES
8/29/2022	YWC	4	REVISED QUANTITIES



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN

**SUMMARY OF
UTILITY QUANTITIES**

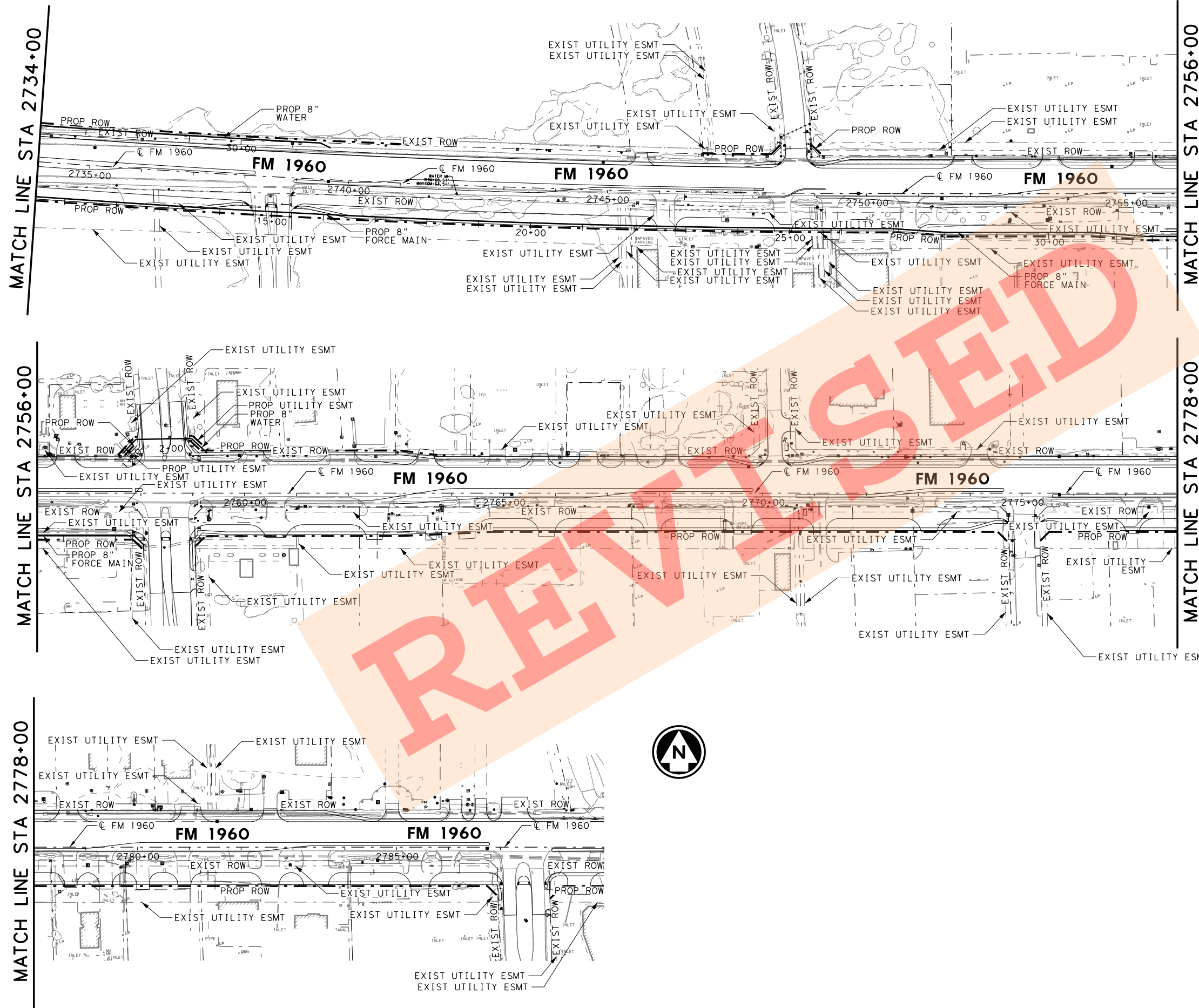
(HC MUD 109)

SHEET 1 OF 1

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	31

FILENAME: FM1960W_Project Layout_4.dgn

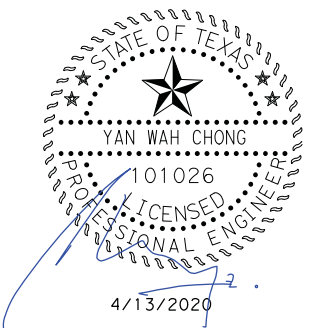
DRAWING DATE: 4/13/2020



HORZ 0' 50' 100' 200'
SCALE IN FEET



REVISIONS



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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROJECT LAYOUT

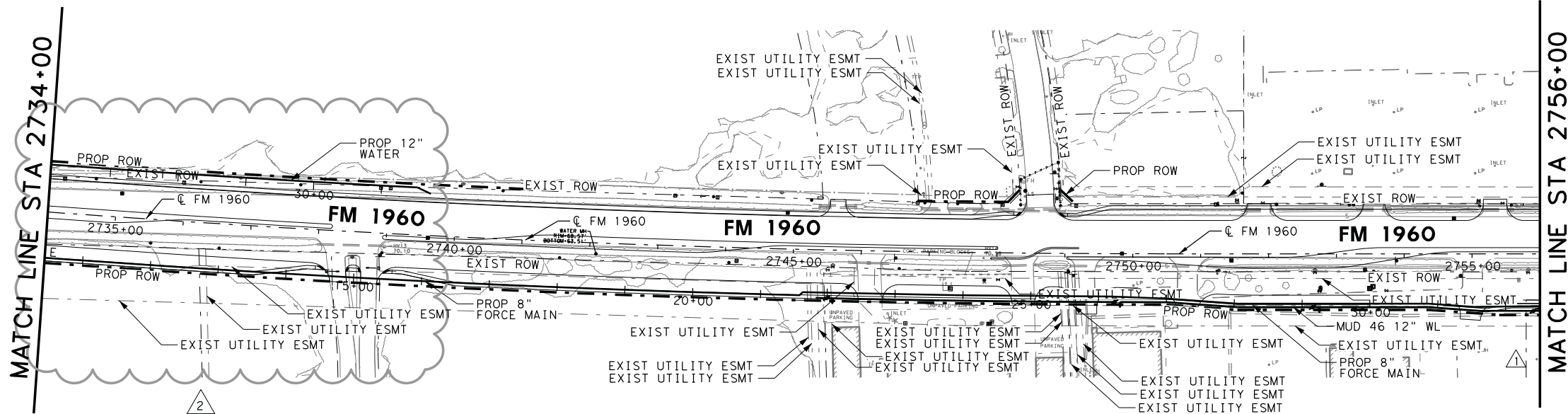
2734+00 TO 2789+00
(HC MUD 109)

FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY		SHEET NO.
TEXAS	HOU	HARRIS		513
CONTROL	SECTION	JOB		
1685	03	058		

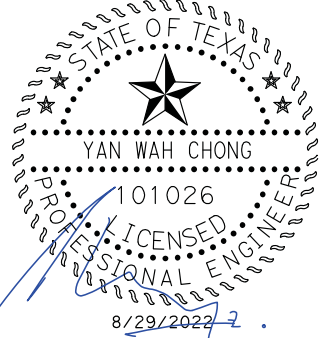
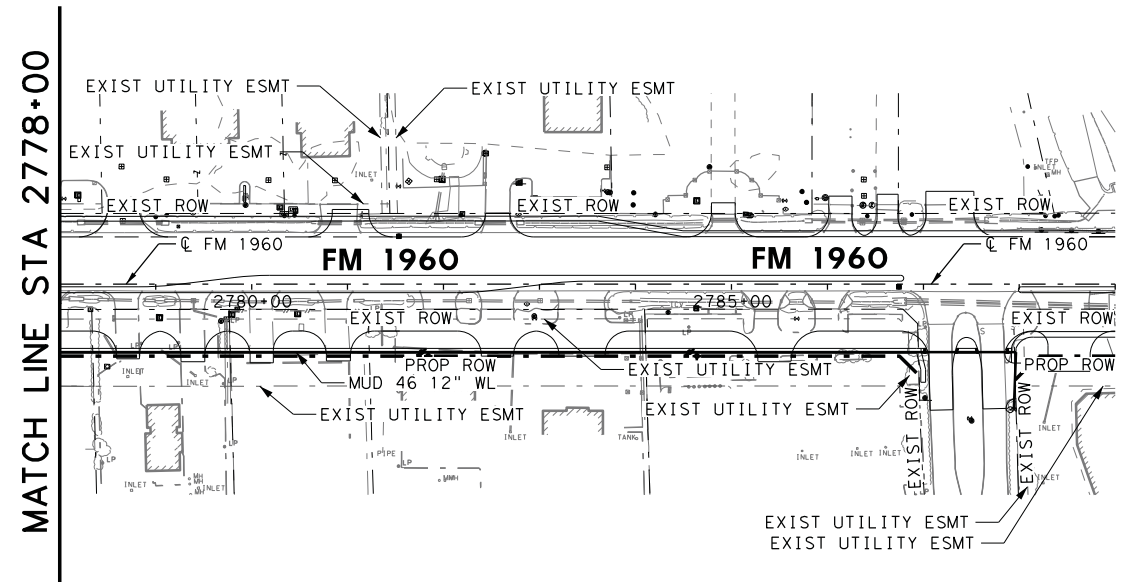
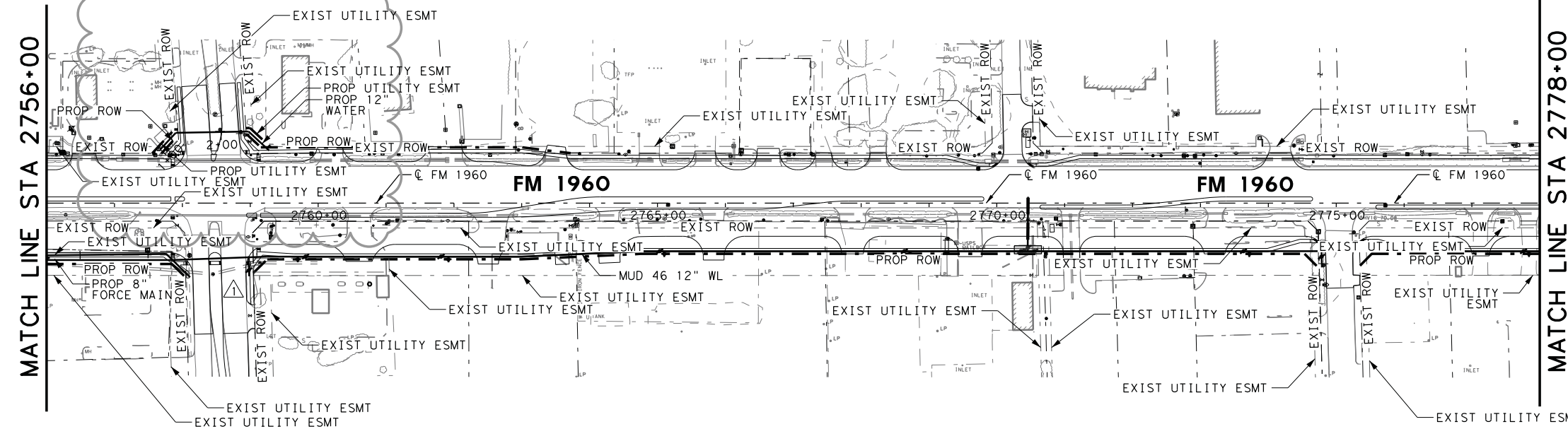
SHEET 4 OF 4

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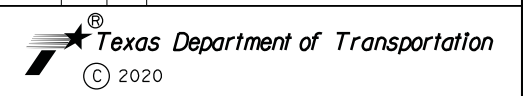
DRAWING DATE: 8/29/2022



HORZ 0' 50' 100' 200'
SCALE IN FEET



DATE	BY	REV	REVISION
2/8/2022	YWC	1	8" SS LINE REALIGNMENT ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROJECT LAYOUT

2734+00 TO 2789+00
(HC MUD 109)

SHEET 4 OF 4

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	513
1685	03	058	



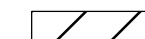
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

NOTES:

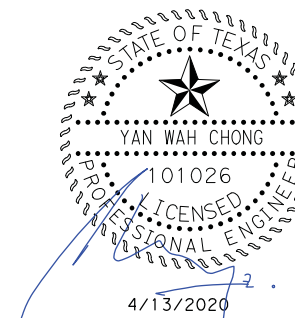
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



TO BE REMOVED



TO BE ABANDONED



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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
 ABANDONMENT LAYOUTS**
 2706+50 TO 2717+50

(HC MUD 109)

SHEET 1 OF 5

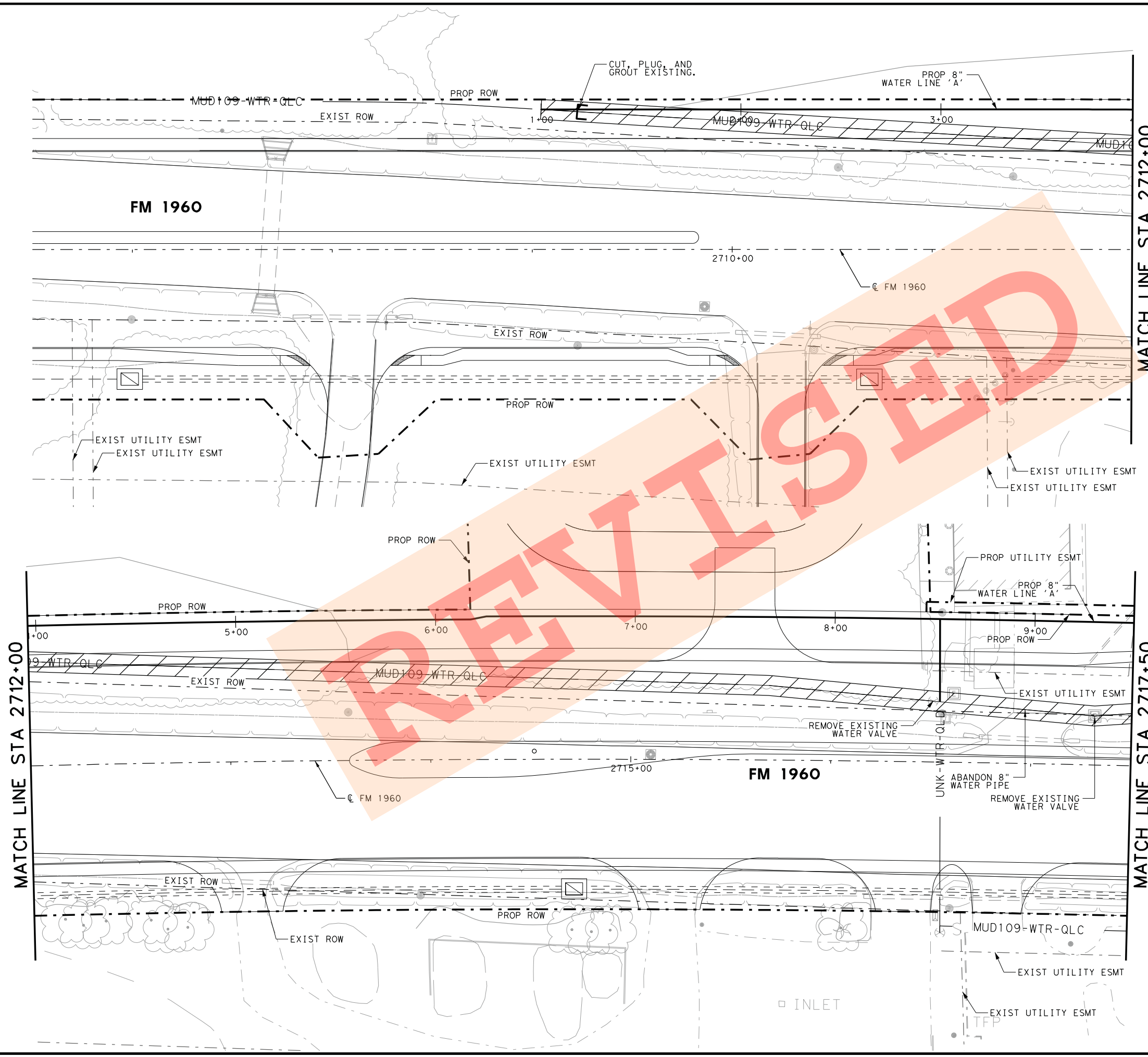
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	514
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment Layout_1.dgn

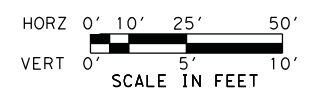
DRAWING DATE: 4/13/2020

MATCH LINE STA 2712+00

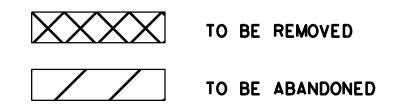
MATCH LINE STA 2717+50



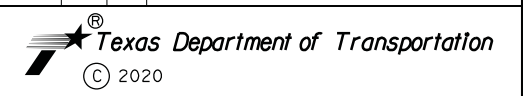
REVISIONS



- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
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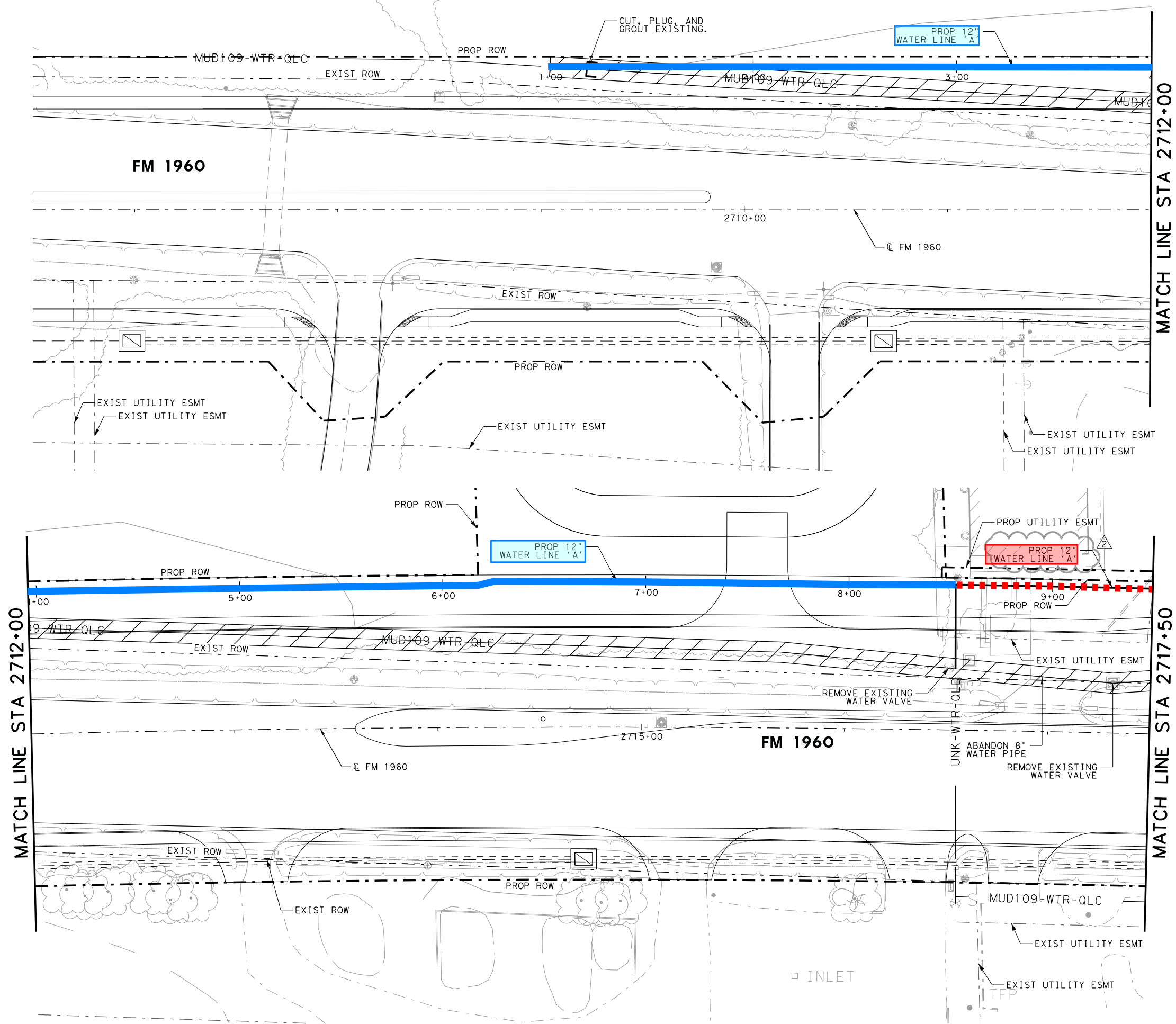
DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND PROP 12" WL TEXT
8/29/2022	YWC	2	UPDATED PROP 8" WL TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2706+50 TO 2717+50

(HC MUD 109) SHEET 1 OF 5

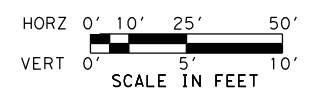
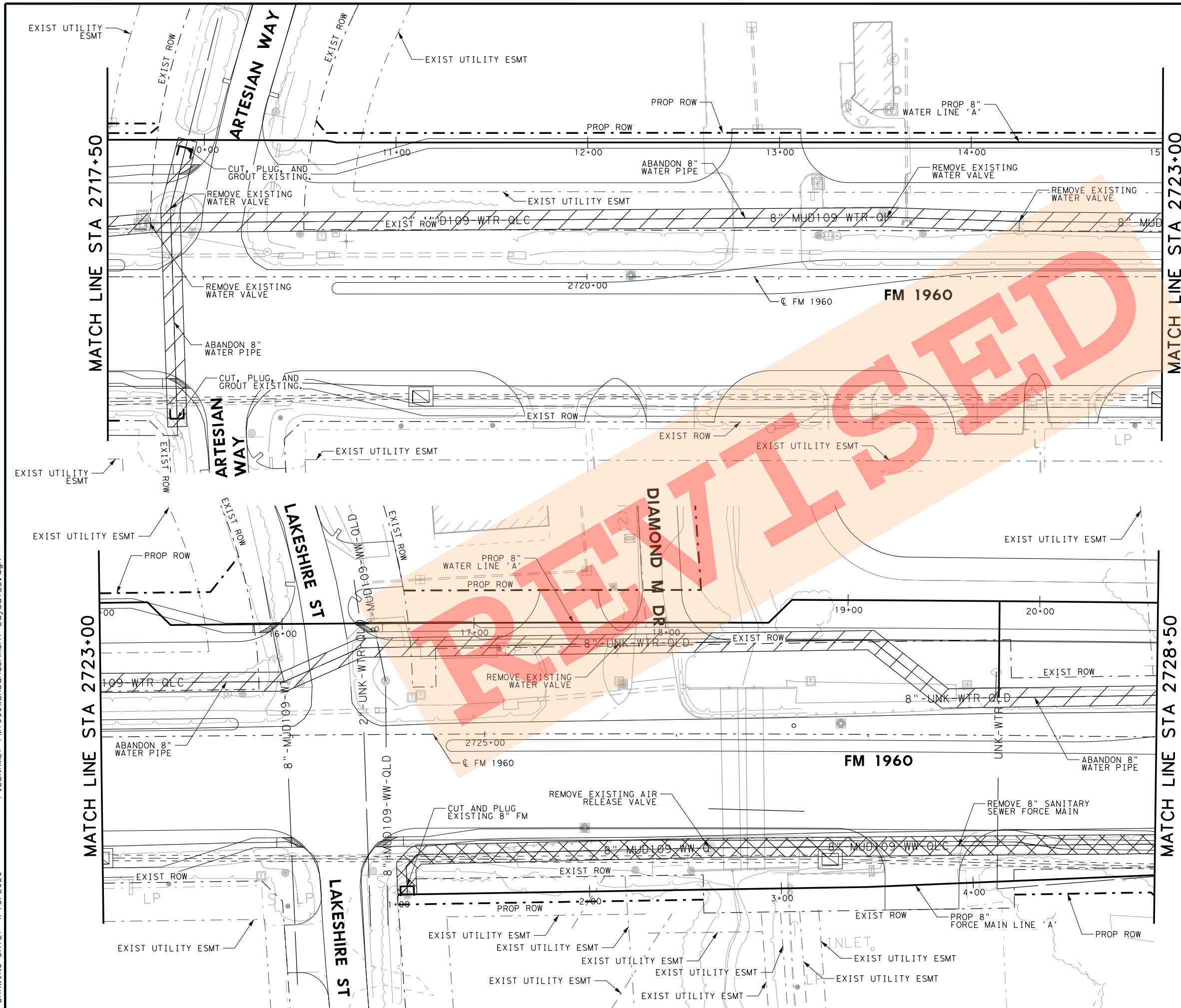
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	514
CONTROL	SECTION	JOB	
1685	03	058	



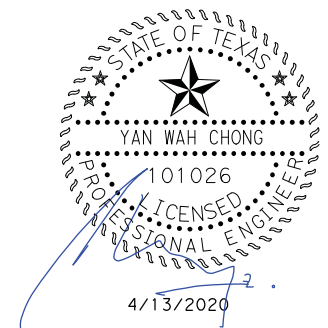
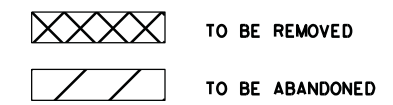
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 DRAWING DATE: 8/29/2022

FILENAME: FM1960W_Abandonment_Layout_2.dgn

DRAWING DATE: 4/16/2020



- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



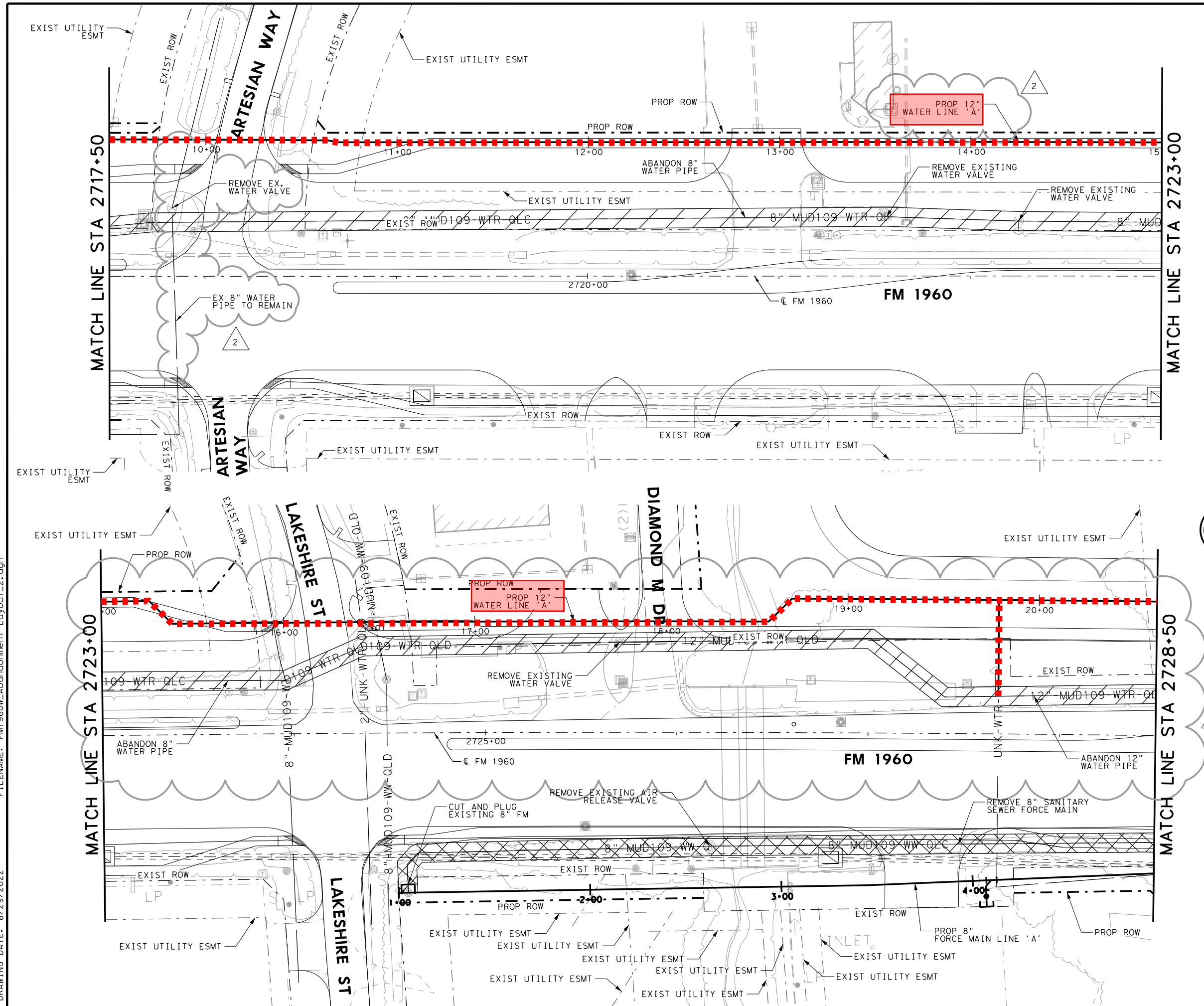
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FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
ABANDONMENT LAYOUTS**
2717+50 TO 2728+50
(HC MUD 109) SHEET 2 OF 5

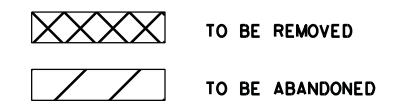
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	515
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment_Layout_2.dgn
DRAWING DATE: 8/29/2022

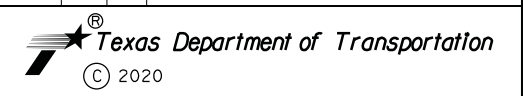


HORZ 0' 10' 25' 50'
VERT 0' 5' 10'
SCALE IN FEET

- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
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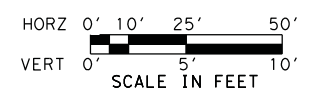
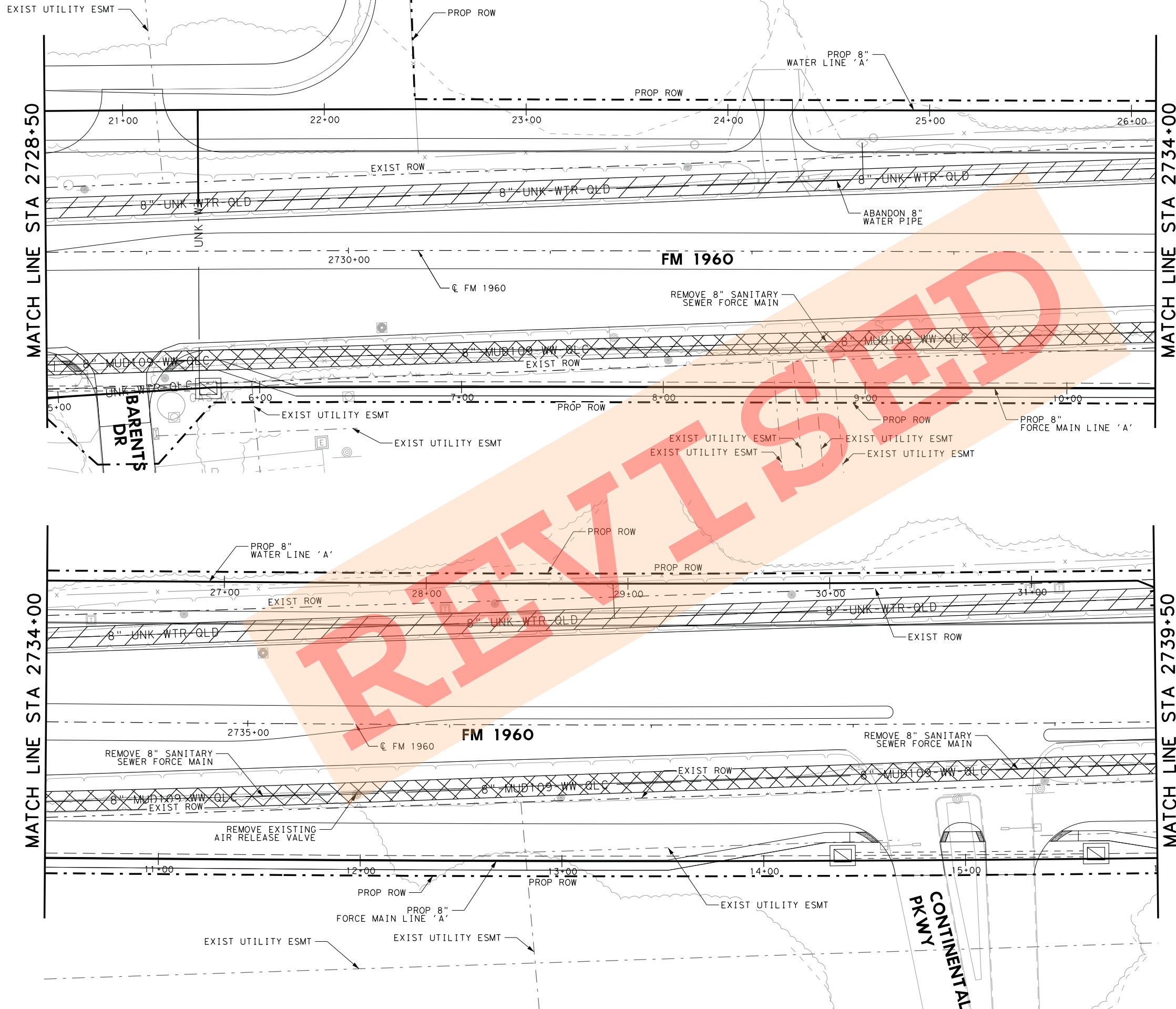
DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED 4" FM
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL
8/29/2022	YWC	2	REMOVED ABANDONMENT OF EX 8" WL



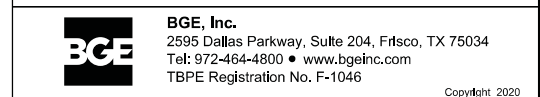
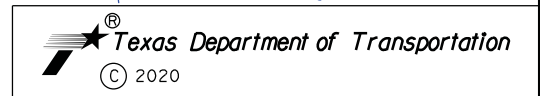
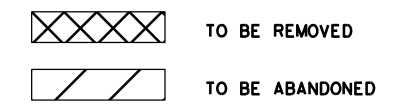
FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2717+50 TO 2728+50

(HC MUD 109) SHEET 2 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	515
CONTROL	SECTION	JOB	
1685	03	058	



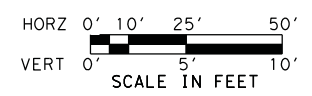
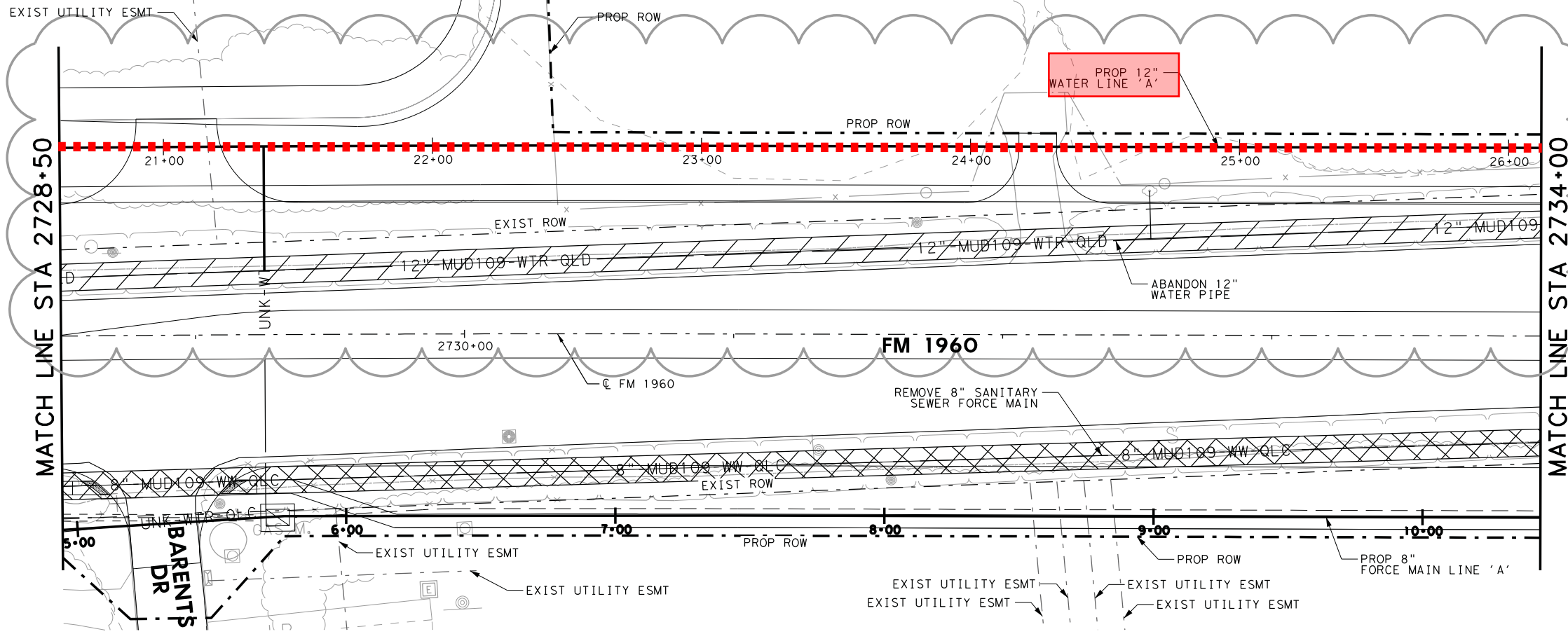
- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
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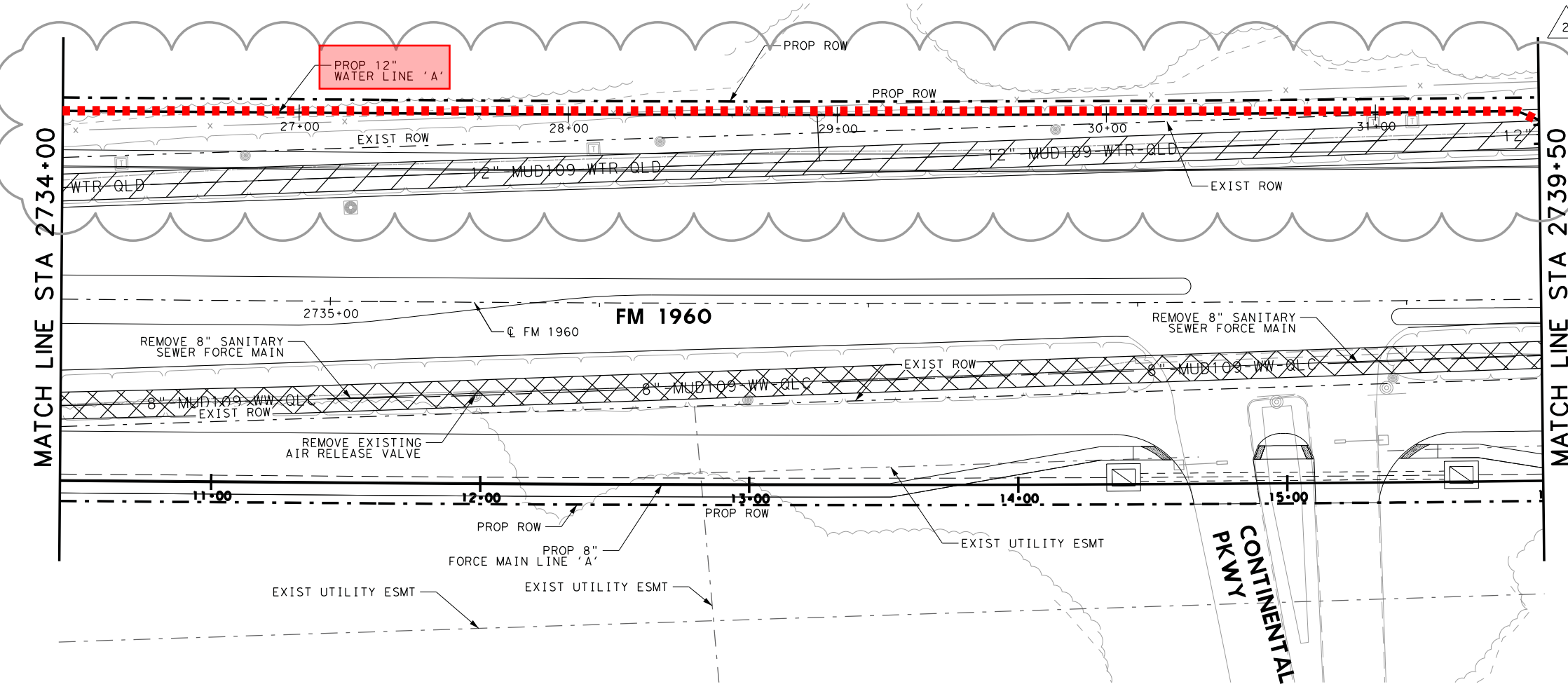
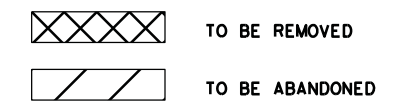
FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2728+50 TO 2739+50
 (HC MUD 109)

FED. RD. DIV. NO.			FEDERAL AID PROJECT NO.	HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.	
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB		
1685	03	058	516	

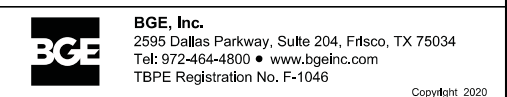
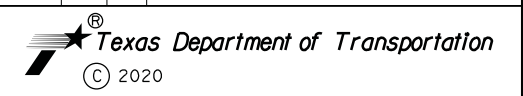
FILENAME: FM1960W_Abandonment Layout_3.dgn
 DRAWING DATE: 4/13/2020



- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
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DATE	BY	REV	REVISION
8/29/2022	YWC	2	PROP & EXIST 8\"/>



**FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2728+50 TO 2739+50**

(HC MUD 109) SHEET 3 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	516
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment Layout_3.dgn
DRAWING DATE: 8/29/2022



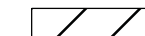
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

NOTES:

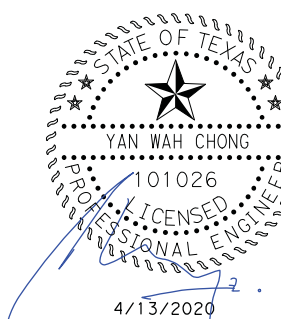
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
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3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



TO BE REMOVED



TO BE ABANDONED



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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
 ABANDONMENT LAYOUTS**
 2739+50 TO 2750+50

(HC MUD 109)

SHEET 4 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	517
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment Layout_4.dgn

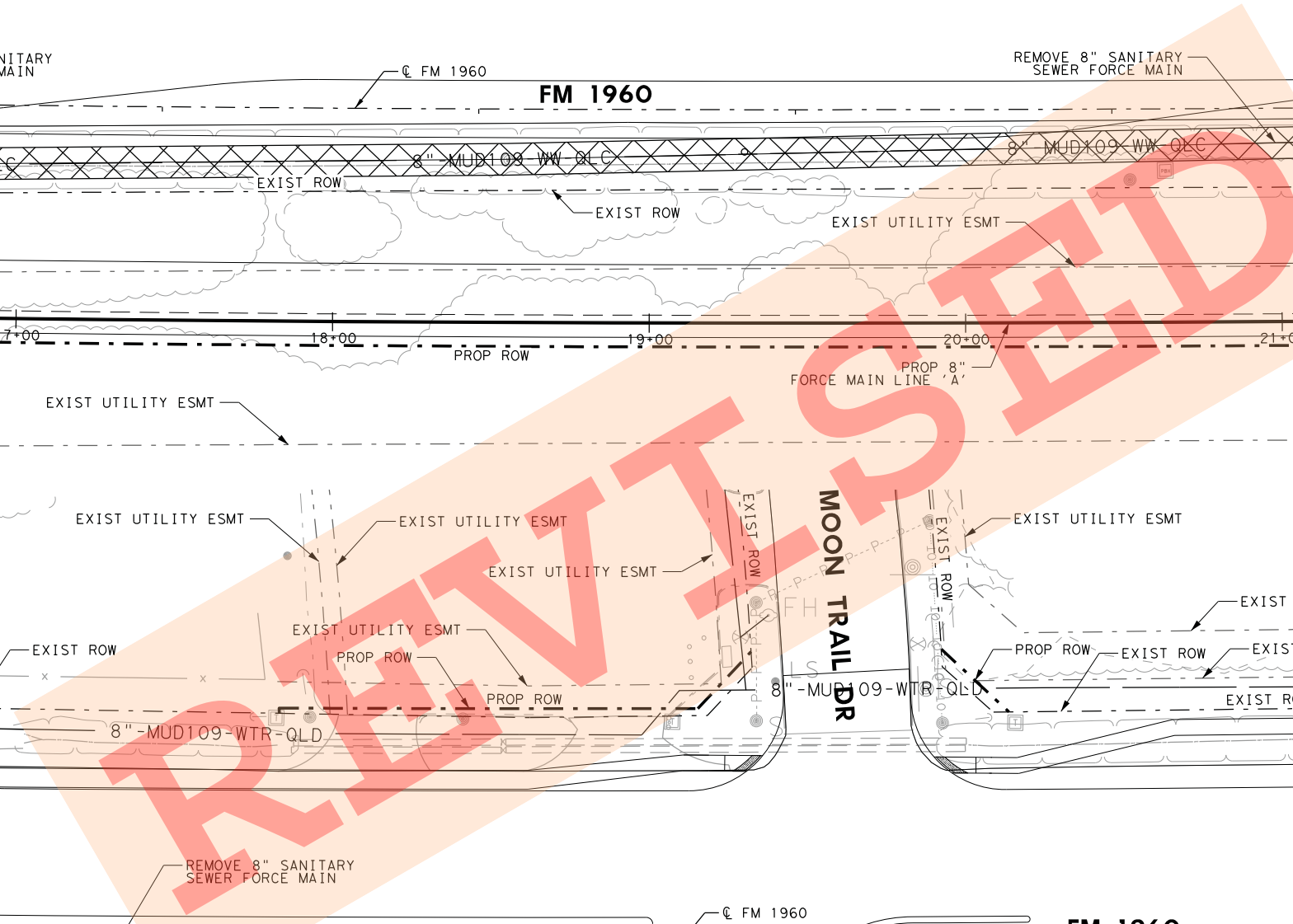
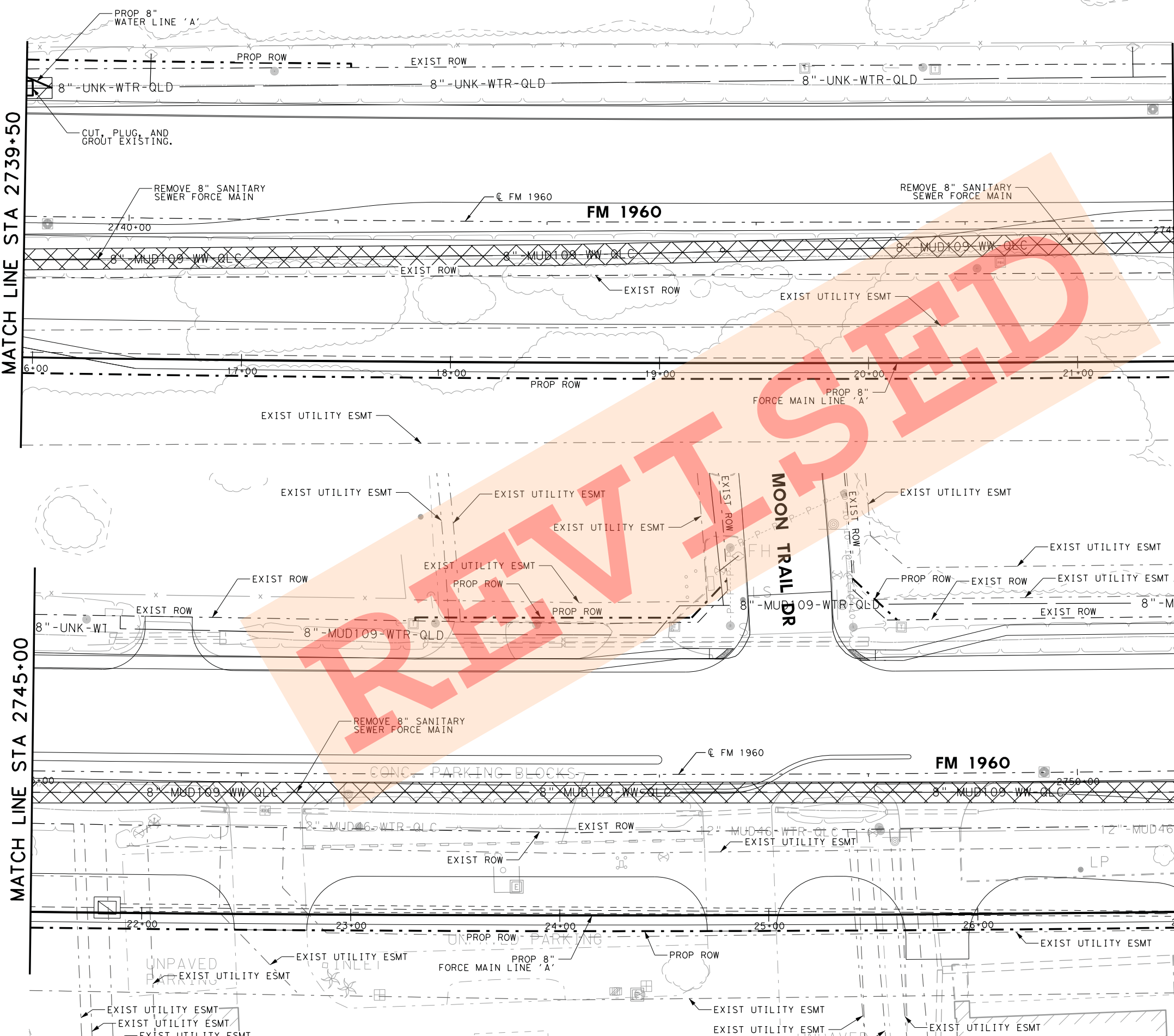
DRAWING DATE: 4/13/2020

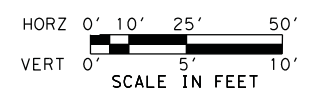
MATCH LINE STA 2739+50

MATCH LINE STA 2745+00


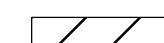
MATCH LINE STA 2745+00

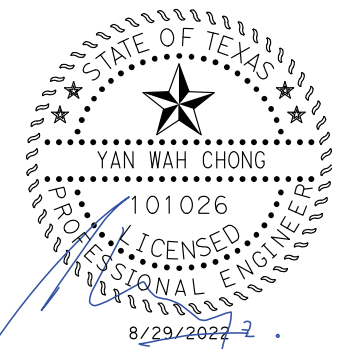
MATCH LINE STA 2750+50



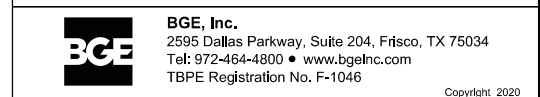
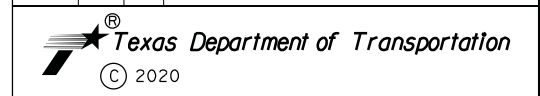


- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
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-  TO BE REMOVED
-  TO BE ABANDONED



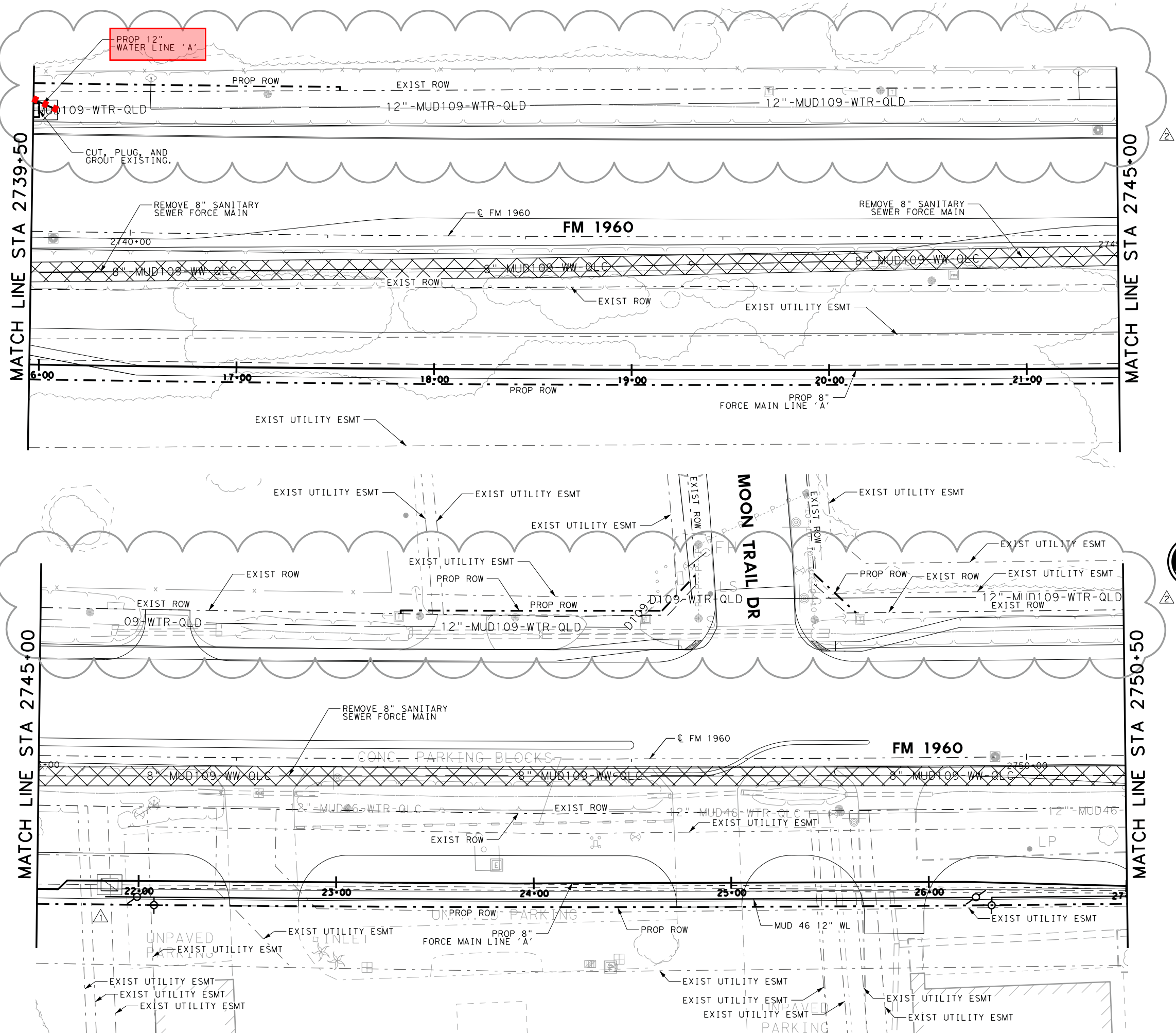
DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND 8" FM ALIGNMENT ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2739+50 TO 2750+50
 (HC MUD 109)

SHEET 4 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	517
CONTROL	SECTION	JOB	
1685	03	058	



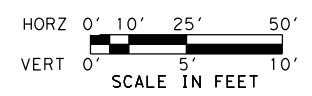
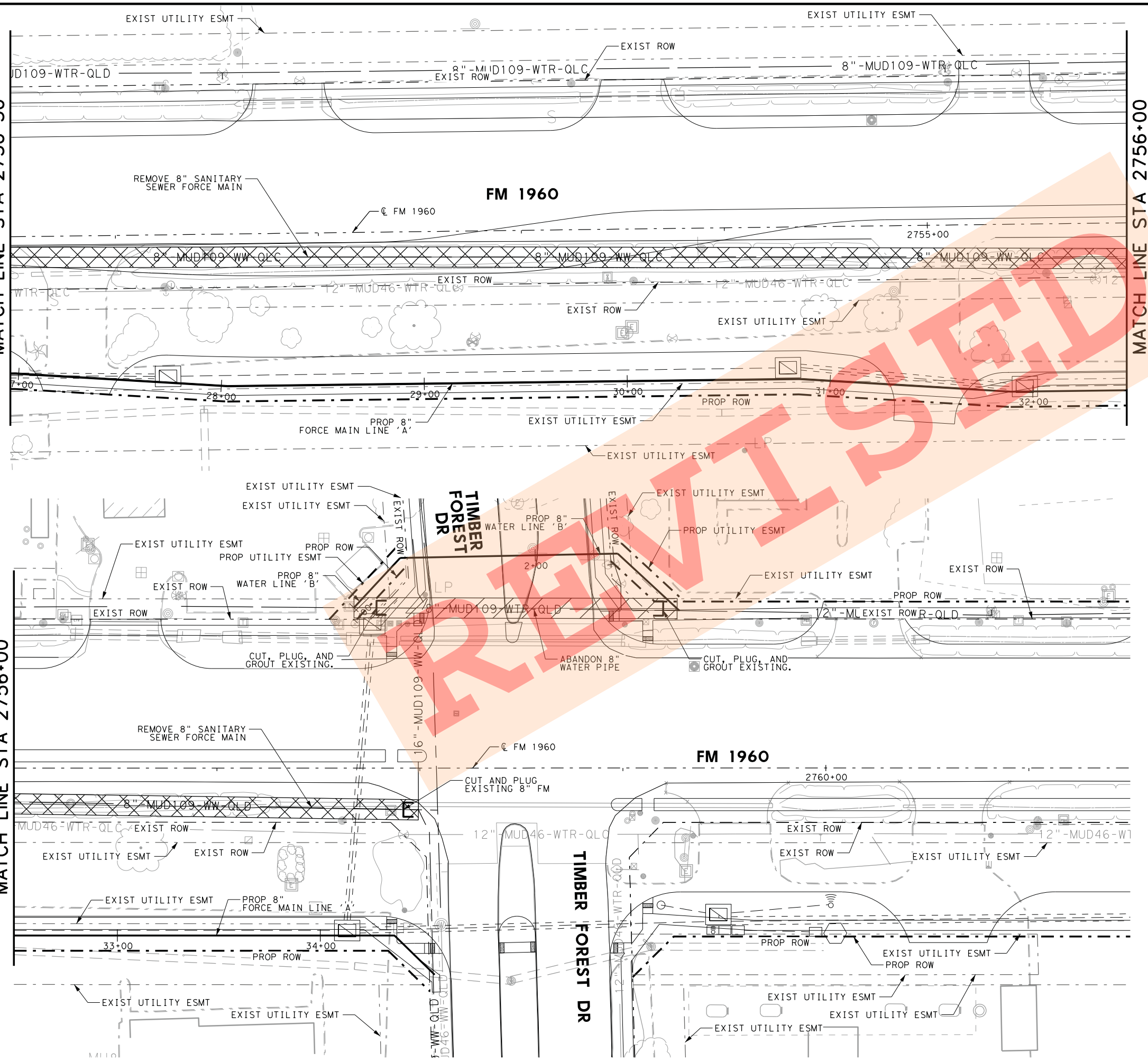
FILENAME: FM1960W_Abandonment Layout_4.dgn
 DRAWING DATE: 8/29/2022

FILENAME: FM1960W_Abandonment Layout_5.dgn

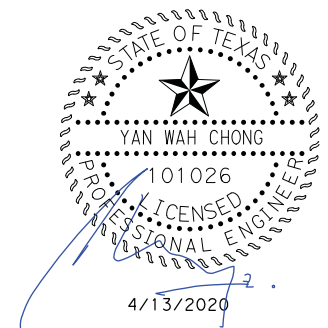
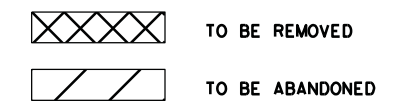
DRAWING DATE: 4/16/2020

MATCH LINE STA 2750+50

MATCH LINE STA 2756+00



- NOTES:
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.



Texas Department of Transportation

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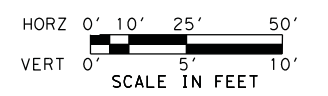
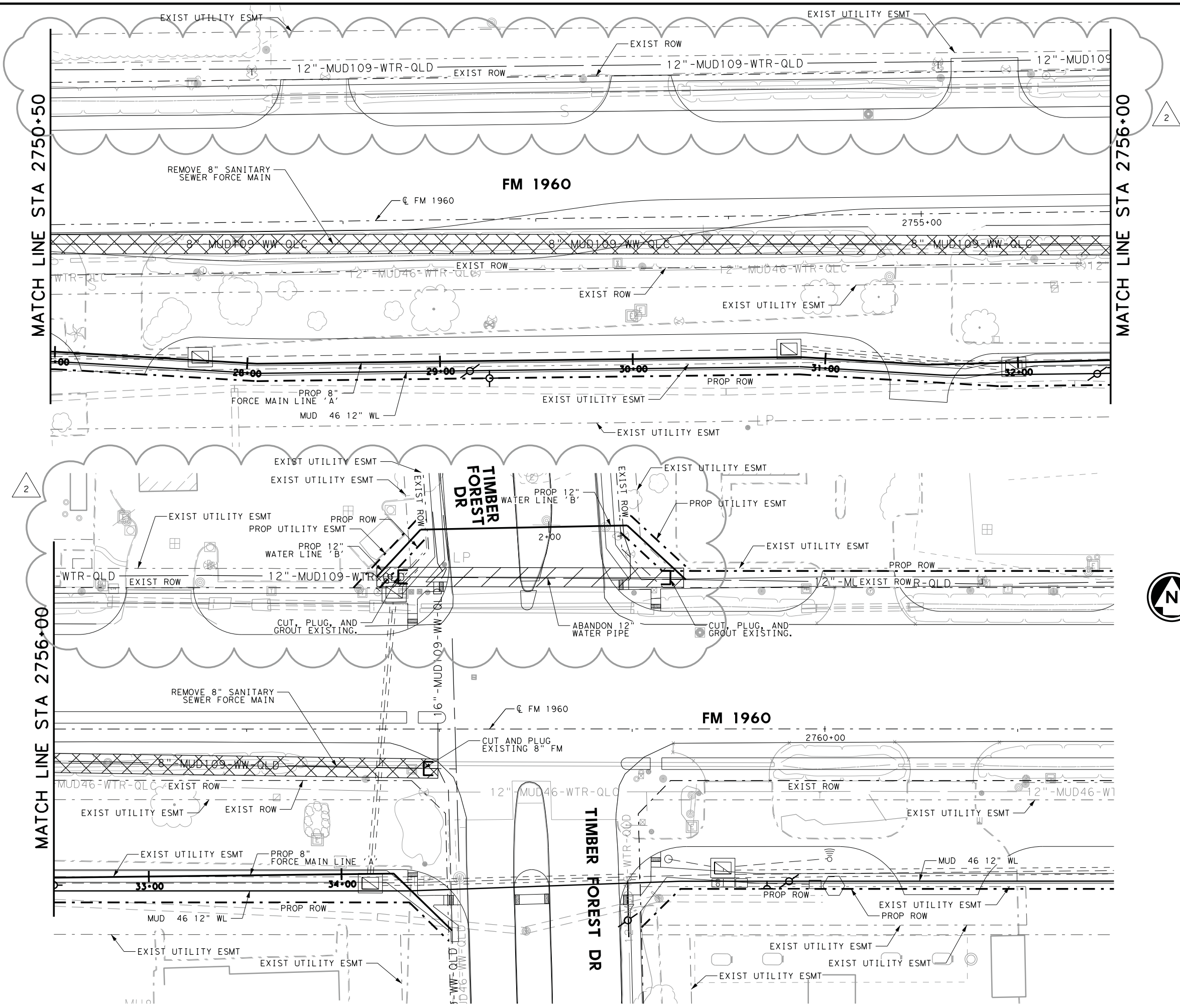
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 2595 Dallas Parkway, Suite 204, Frisco, TX 75034
 Tel: 972-464-4800 • www.bgeinc.com
 TBPE Registration No. F-1046

FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
UTILITY REMOVAL AND
ABANDONMENT LAYOUTS
2750+50 TO 2761+50

(HC MUD 109) SHEET 5 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	518
CONTROL	SECTION	JOB	
1685	03	058	

FILENAME: FM1960W_Abandonment_Layout_5.dgn
DRAWING DATE: 8/29/2022

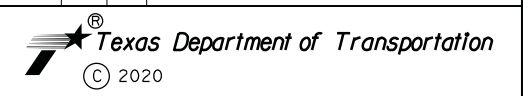


- NOTES:**
1. SEE GENERAL NOTES SHEET FOR ADDITIONAL UTILITY INFORMATION
 2. CONTRACTOR SHALL COORDINATE WITH HC MUD 109 PRIOR TO CUTTING OR ABANDONING ANY EXISTING UTILITY LINES.
 3. CONTRACTOR SHALL VERIFY ALL SERVICES HAVE BEEN SWITCHED OVER TO THE NEW UTILITIES PRIOR TO ABANDONING ANY LINES.

- TO BE REMOVED
- TO BE ABANDONED



DATE	BY	REV	REVISION
2/8/2022	YWC	1	AMEND 8" SS LINE ALIGN ADD MUD 46 8" WL
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
**UTILITY REMOVAL AND
ABANDONMENT LAYOUTS**
2750+50 TO 2761+50

(HC MUD 109) SHEET 5 OF 5

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	518
CONTROL	SECTION	JOB	
1685	03	058	

C/L CURVE DATA
 $\Delta = 00^\circ 58' 29''$
 $R = 11520.00'$
 $T = 137.8144'$
 $L = 275.6183'$

PT 2714+20, 70' LT
 N 13932279.6990
 E 3169239.3875
 $\Delta 10^\circ 40' 23''$ LT
 INSTALL 1-12" 11.25° BEND

STA 2714+31, 71.5' LT
 INSTALL
 1-12" X 6" ANCHOR TEE
 1-6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932281.3063
 E 3169251.7050

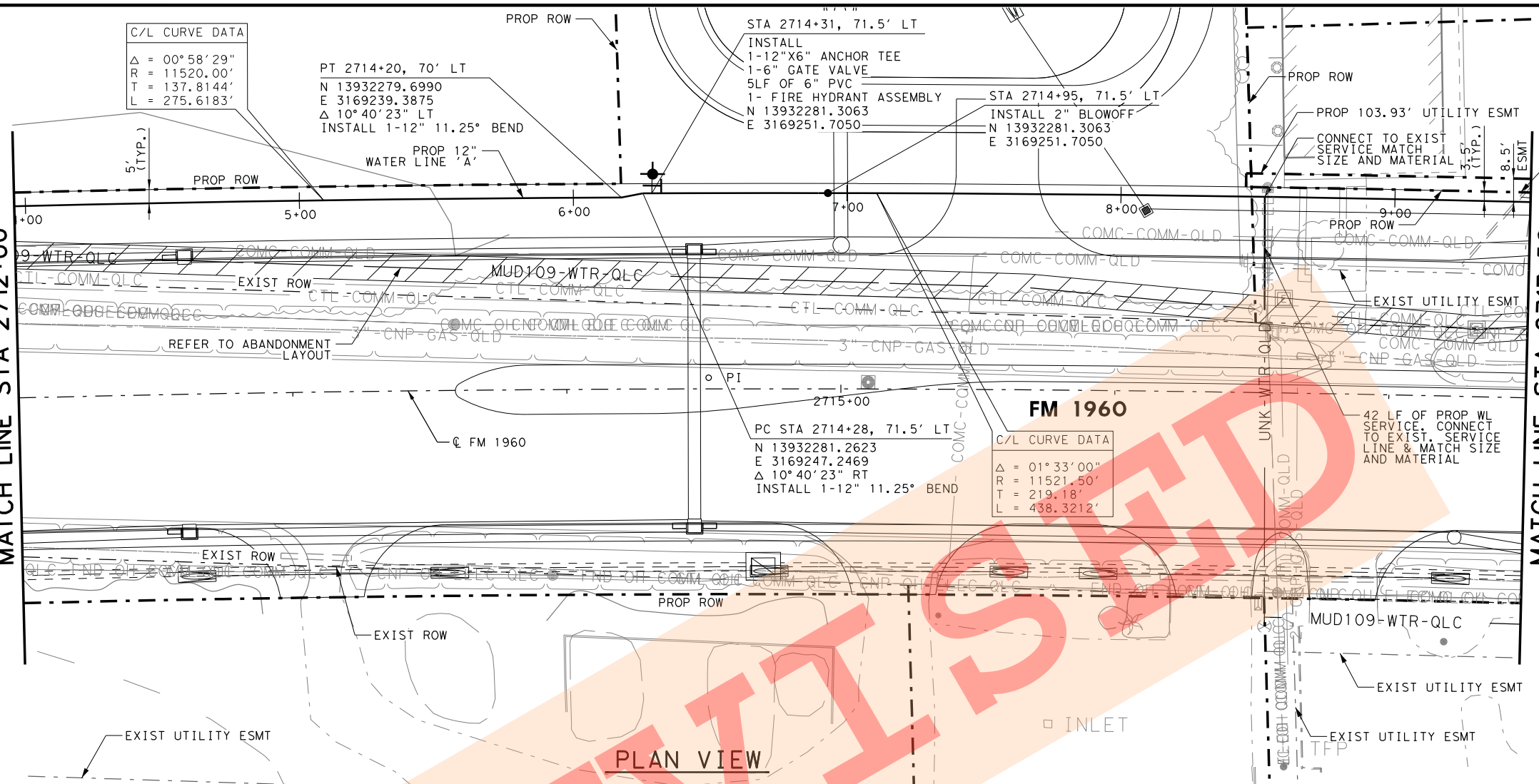
STA 2714+95, 71.5' LT
 INSTALL 2" BLOWOFF
 N 13932281.3063
 E 3169251.7050



HORIZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

MATCH LINE STA 2712+00

MATCH LINE STA 2717+50



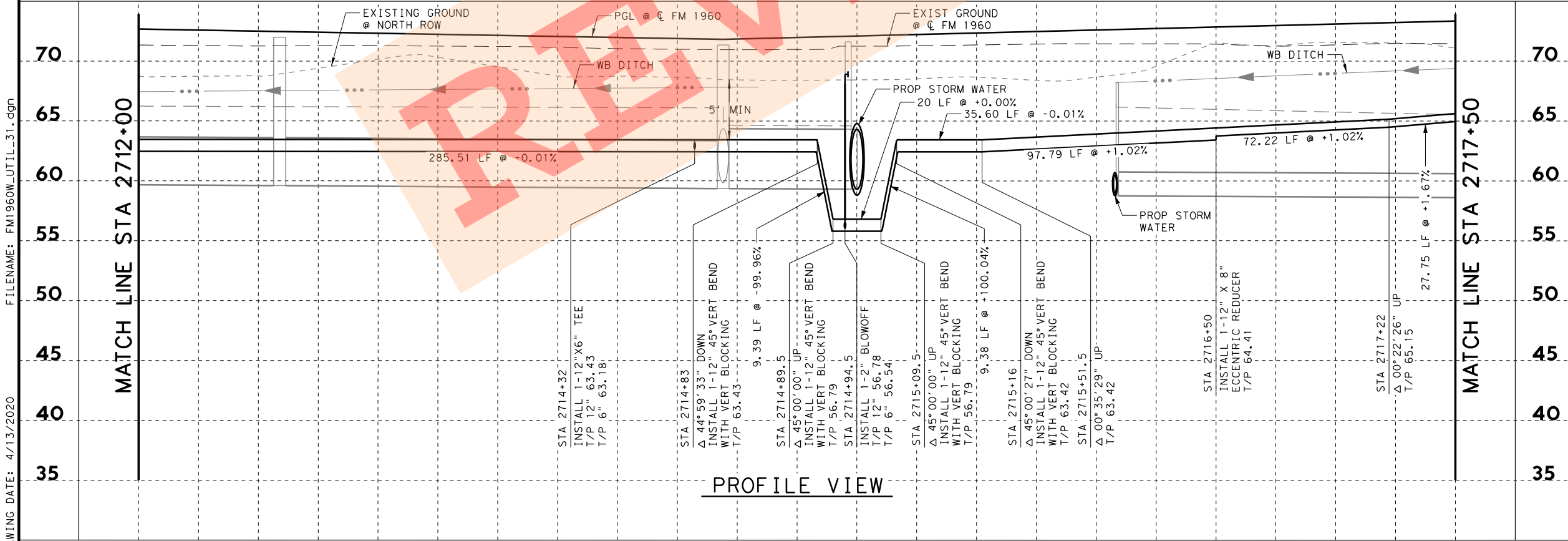
FM 1960

C/L CURVE DATA
 $\Delta = 01^\circ 33' 00''$
 $R = 11521.50'$
 $T = 219.18'$
 $L = 438.3212'$

PC STA 2714+28, 71.5' LT
 N 13932281.2623
 E 3169247.2469
 $\Delta 10^\circ 40' 23''$ RT
 INSTALL 1-12" 11.25° BEND

- NOTES:
- CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
 - REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
 - ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
 - CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO PERFORMING THE WORK. EXIST UTILITY ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED.
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 - CONTRACTOR SHALL LOCATE EXIST SERVICES. CONTRACTOR TO COORDINATE WITH MUD 109 TO REMOVE AND RELOCATE WATER METER/Vault AND MAKE CONNECTIONS. REFER TO WATERLINE DETAILS FOR TYPICAL METER SETTINGS.

PLAN VIEW



PROFILE VIEW

2715+00



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 TBPE Registration No. F-1046

FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
 PROPOSED WATER LINE 'A'
 2712+00 TO 2717+50

(HC MUD 109) SHEET 2 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	520
1685	03	058	

FILENAME: FM1960W_UTIL_31.dgn

DRAWING DATE: 4/13/2020

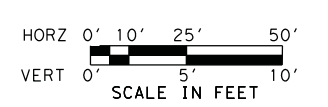
C/L CURVE DATA

Δ =	00° 58' 29"
R =	11520.00'
T =	137.8144'
L =	275.6183'

PT 2714+20, 70' LT
 N 13932279.6990
 E 3169239.3875
 Δ 10° 40' 23" LT
 INSTALL 1-12" 11.25° BEND

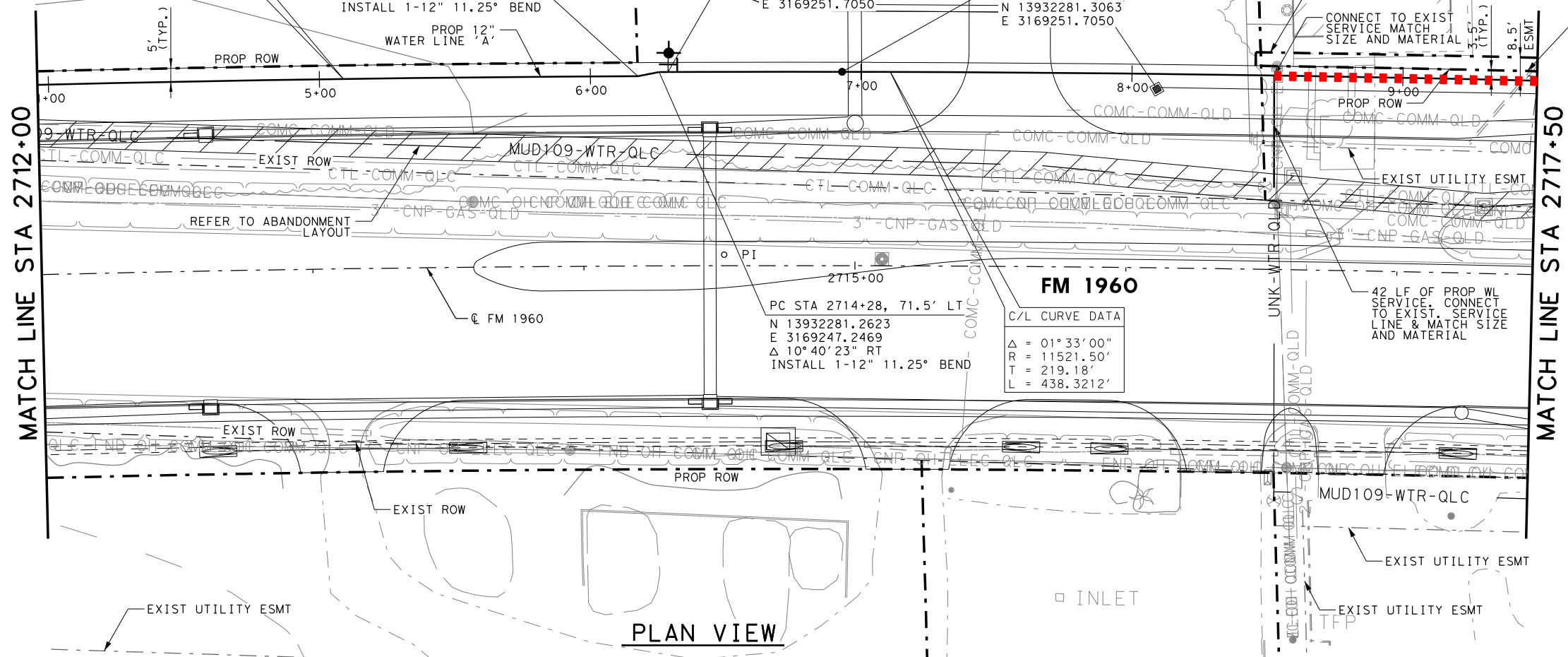
STA 2714+31, 71.5' LT
 INSTALL
 1-12"X6" ANCHOR TEE
 1-6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932281.3063
 E 3169251.7050

STA 2714+95, 71.5' LT
 INSTALL 2" BLOWOFF
 N 13932281.3063
 E 3169251.7050



MATCH LINE STA 2712+00

MATCH LINE STA 2717+50



FM 1960

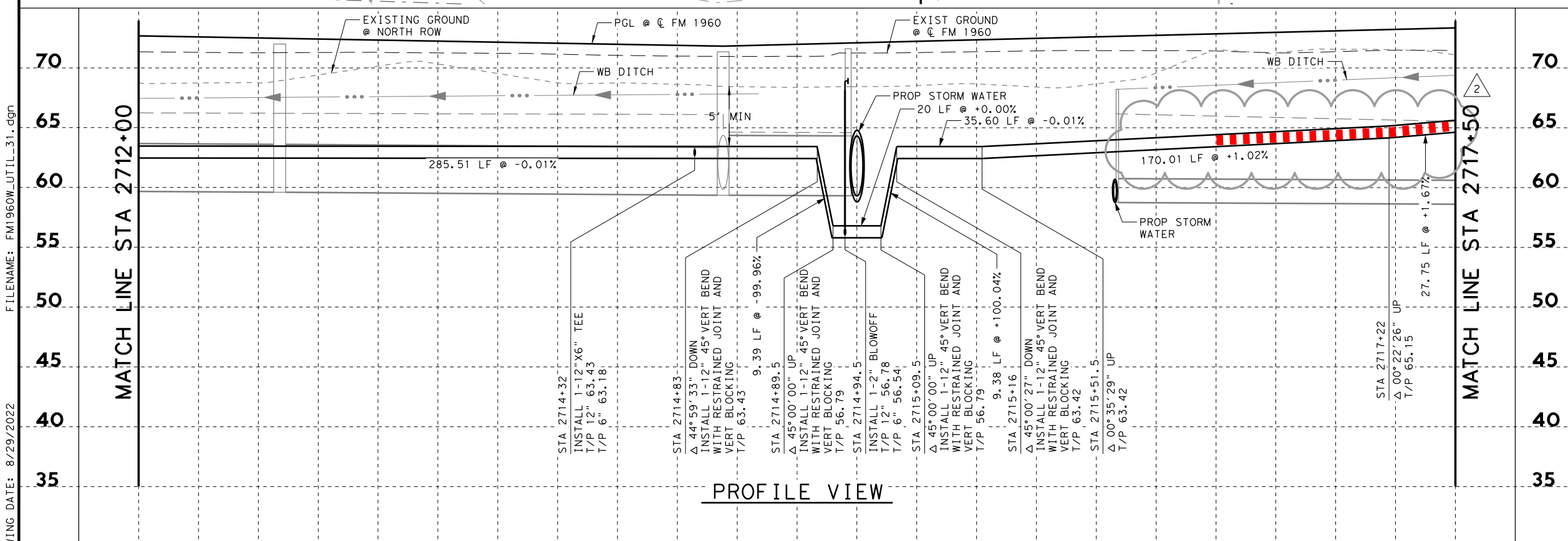
C/L CURVE DATA

Δ =	01° 33' 00"
R =	11521.50'
T =	219.18'
L =	438.3212'

PC STA 2714+28, 71.5' LT
 N 13932281.2623
 E 3169247.2469
 Δ 10° 40' 23" RT
 INSTALL 1-12" 11.25° BEND

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PLAN VIEW

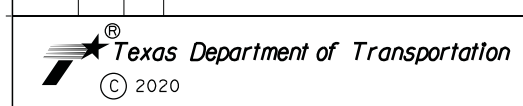


PROFILE VIEW

2715+00



DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	UPDATED 8" WTR LINE TO 12"



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2712+00 TO 2717+50

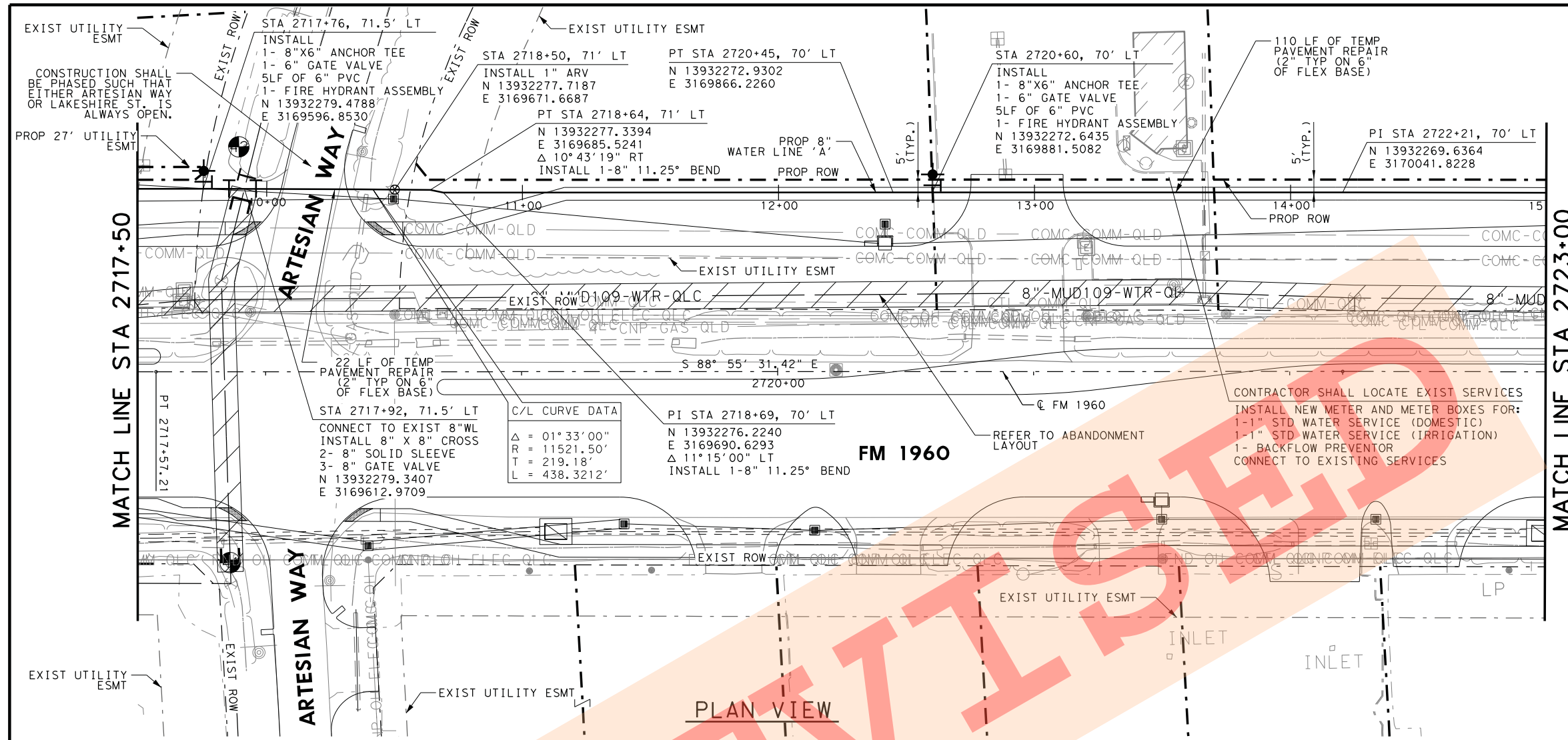
FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.	
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB	520	
1685	03	058		

FILENAME: FM1960W_UTIL_31.dgn
 DRAWING DATE: 8/29/2022

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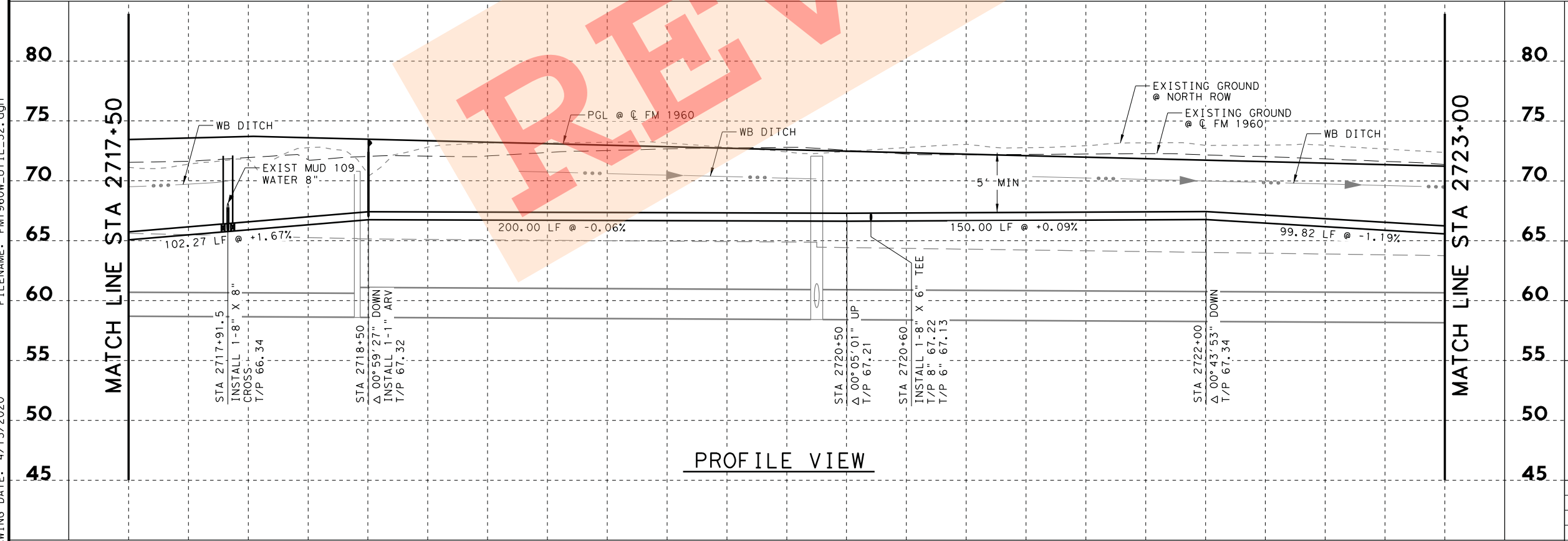


HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

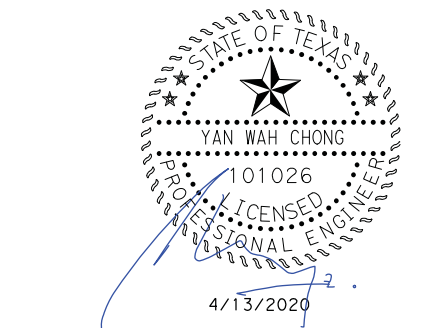


PLAN VIEW

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PROFILE VIEW



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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2717+50 TO 2723+00
 (HC MUD 109)

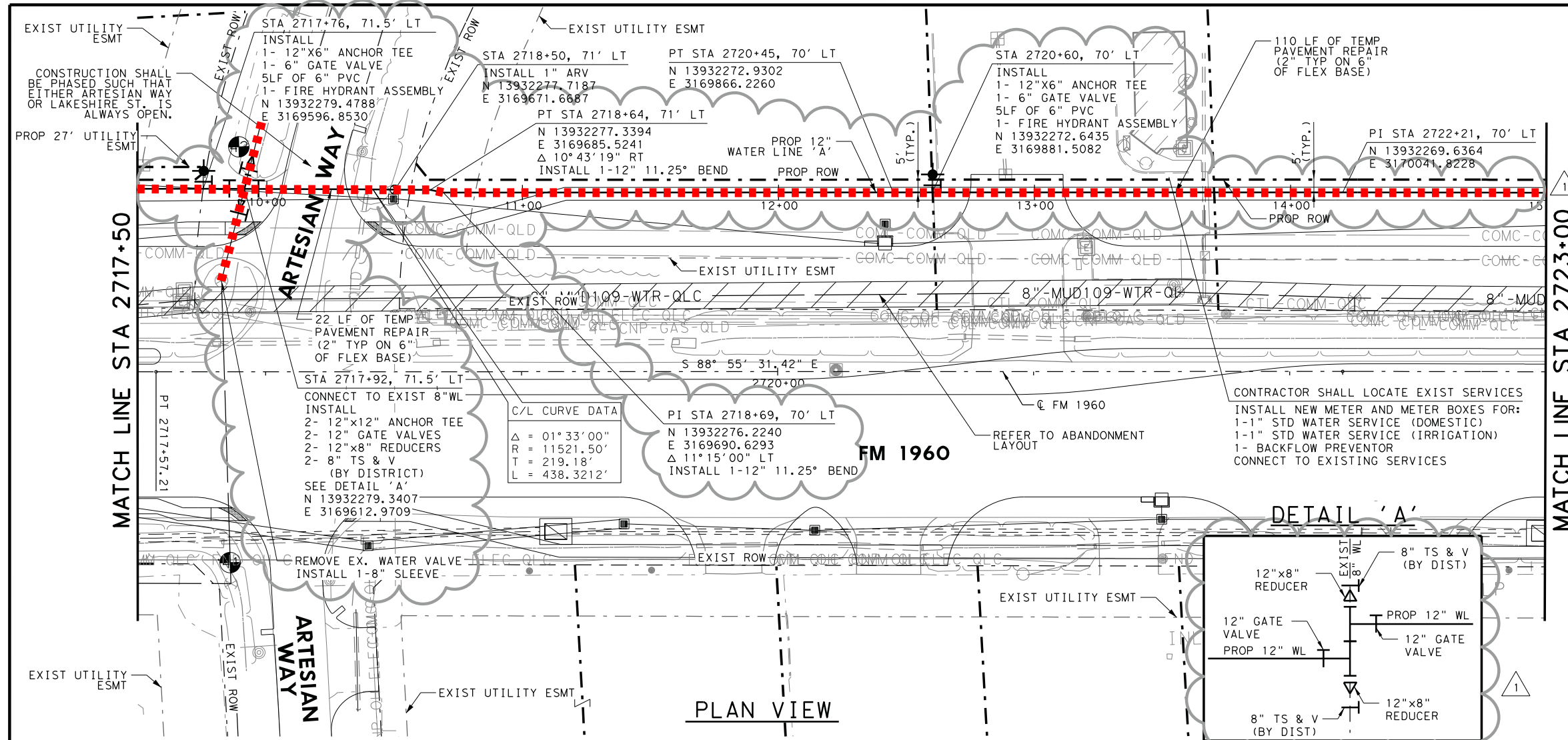
SHEET 3 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	521
1685	03	058	

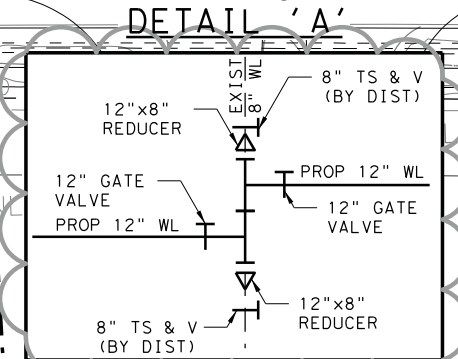
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 DRAWING DATE: 4/13/2020



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

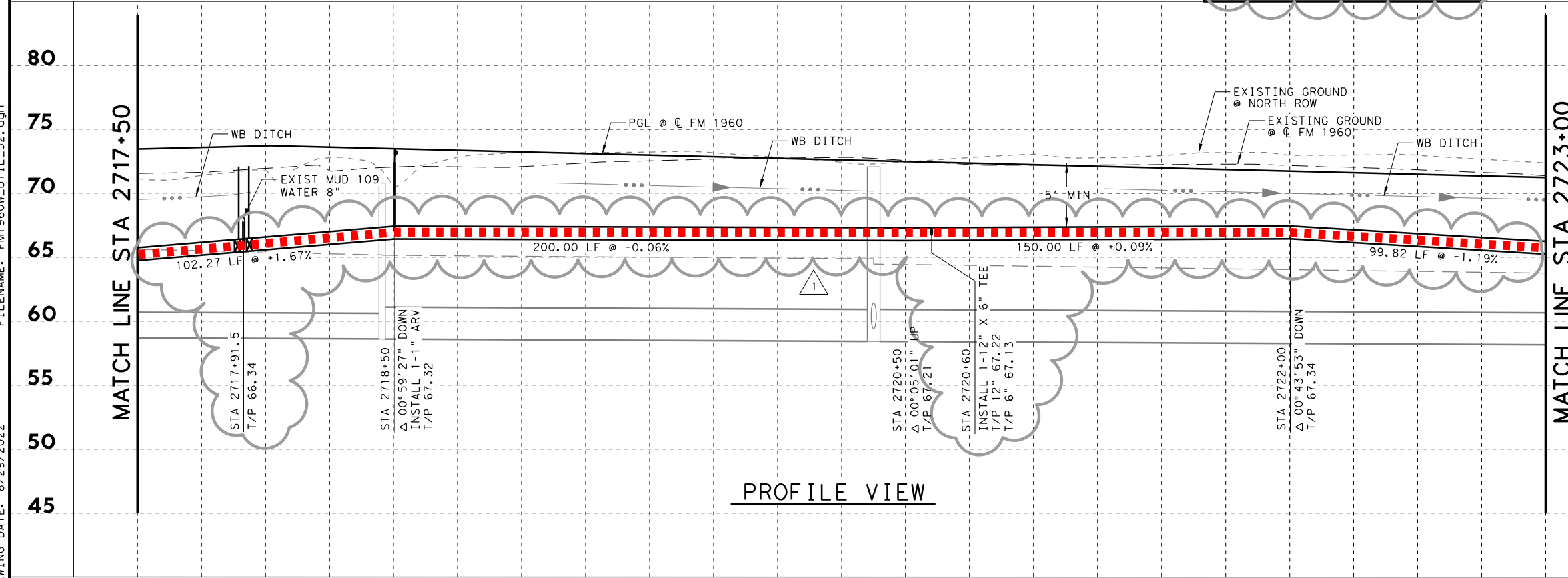


PLAN VIEW



DETAIL 'A'

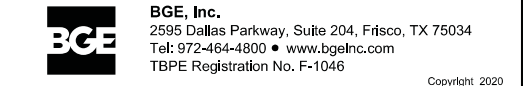
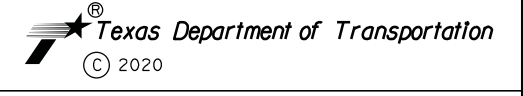
- NOTES:
1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
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PROFILE VIEW



DATE	BY	REV	REVISION
8/29/2022	YWC	1	UPDATED PROP WL FROM 8" TO 12"

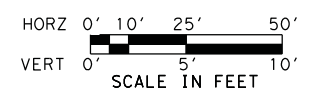


FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2717+50 TO 2723+00
 (HC MUD 109)

FED. RD. DIV. NO.		FEDERAL AID PROJECT NO.		HIGHWAY NO.
6				FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.	
TEXAS	HOU	HARRIS		
CONTROL	SECTION	JOB	521	
1685	03	058		

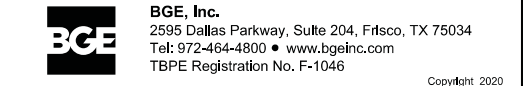
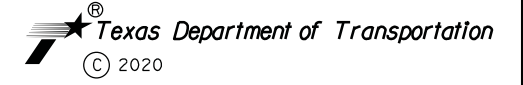
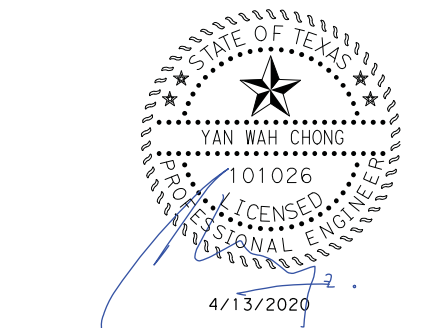
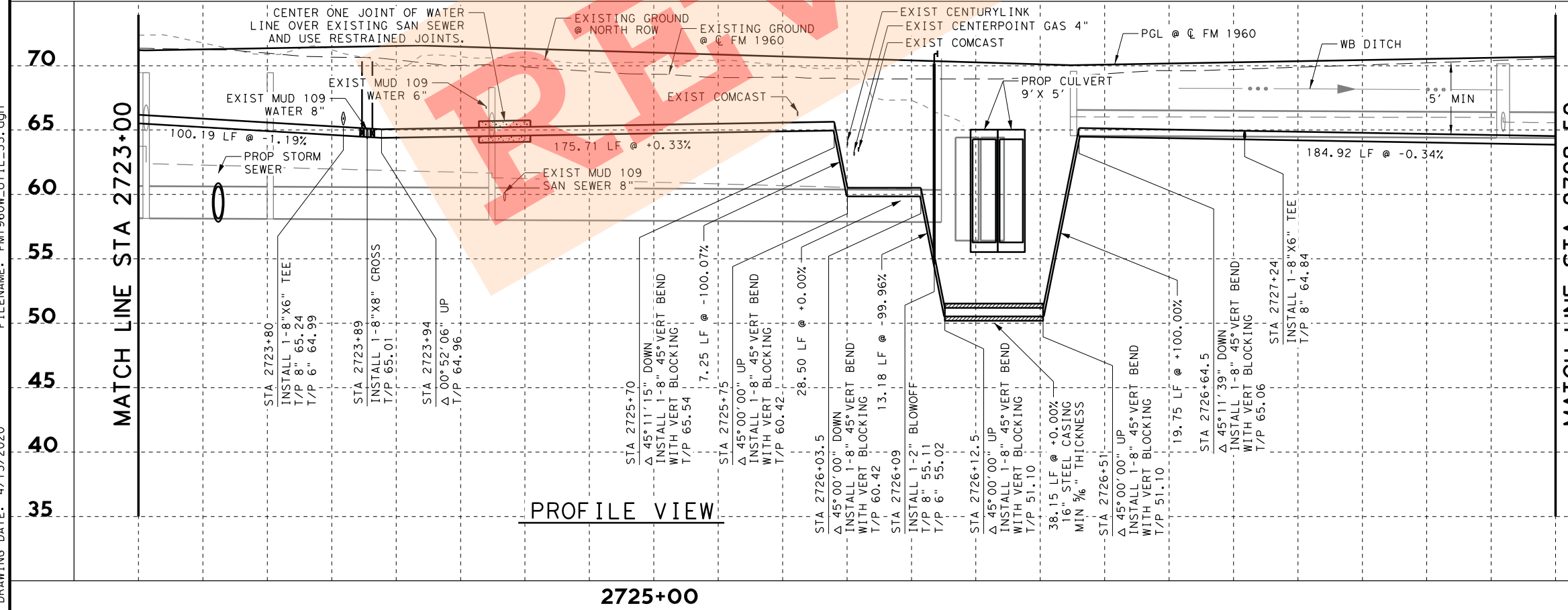
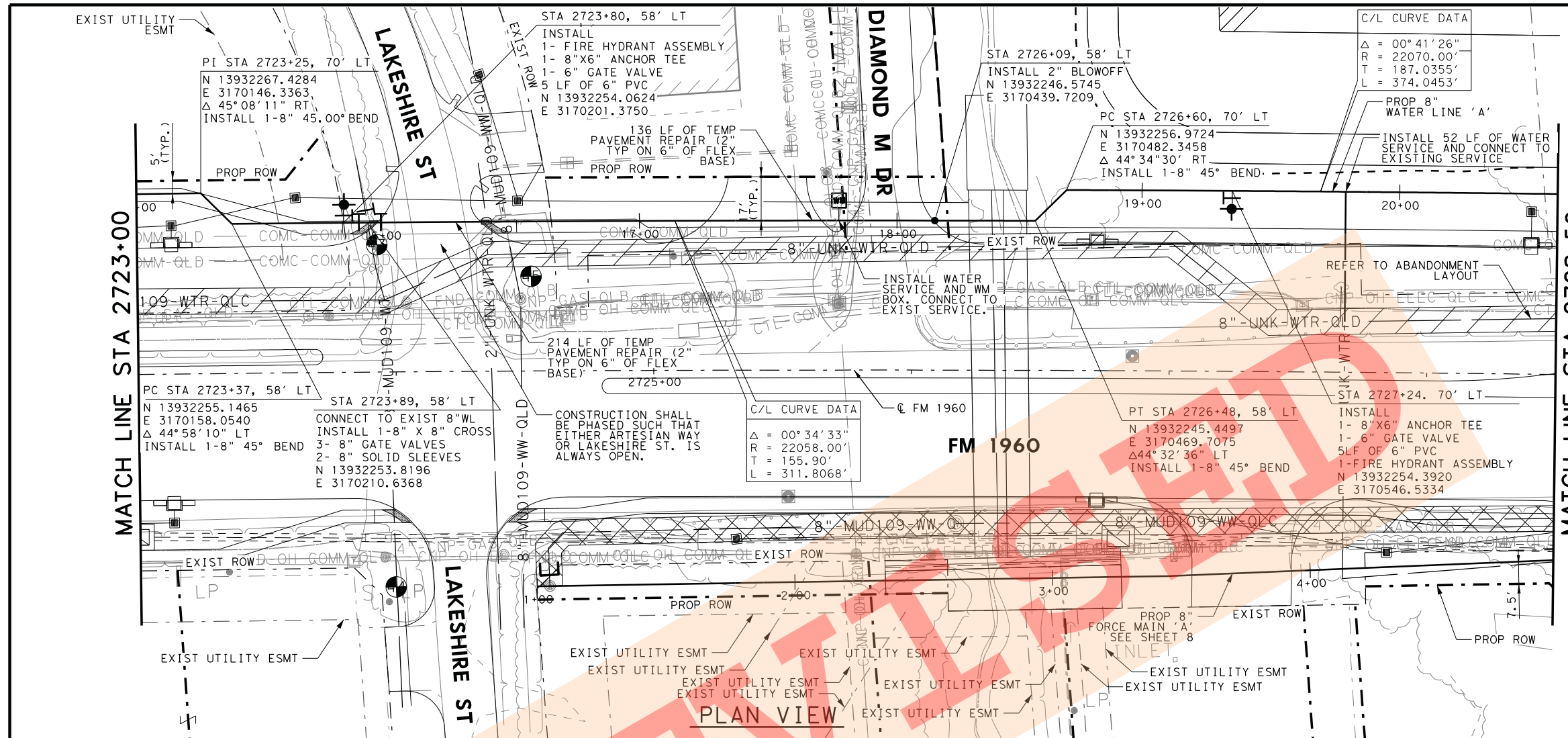
DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_32.dgn

2720+00



NOTES:

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2. REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
3. ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
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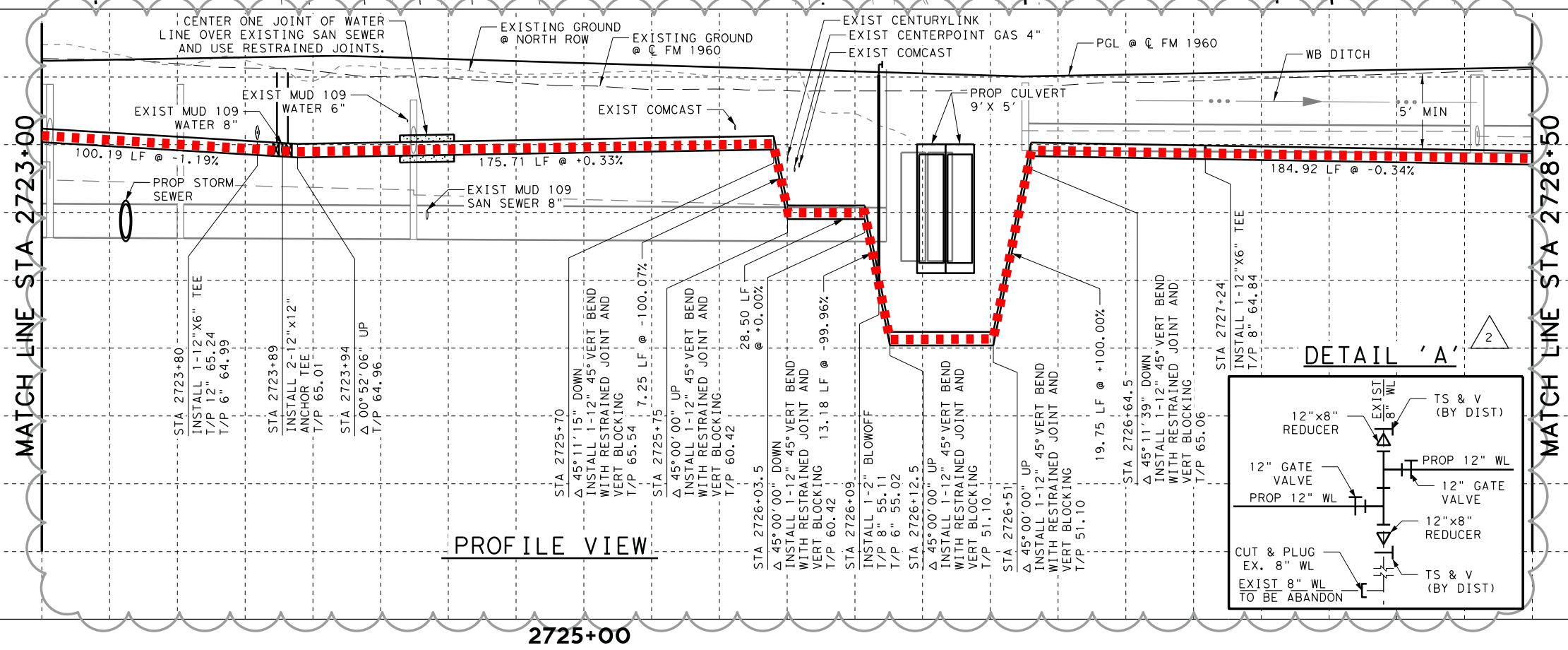
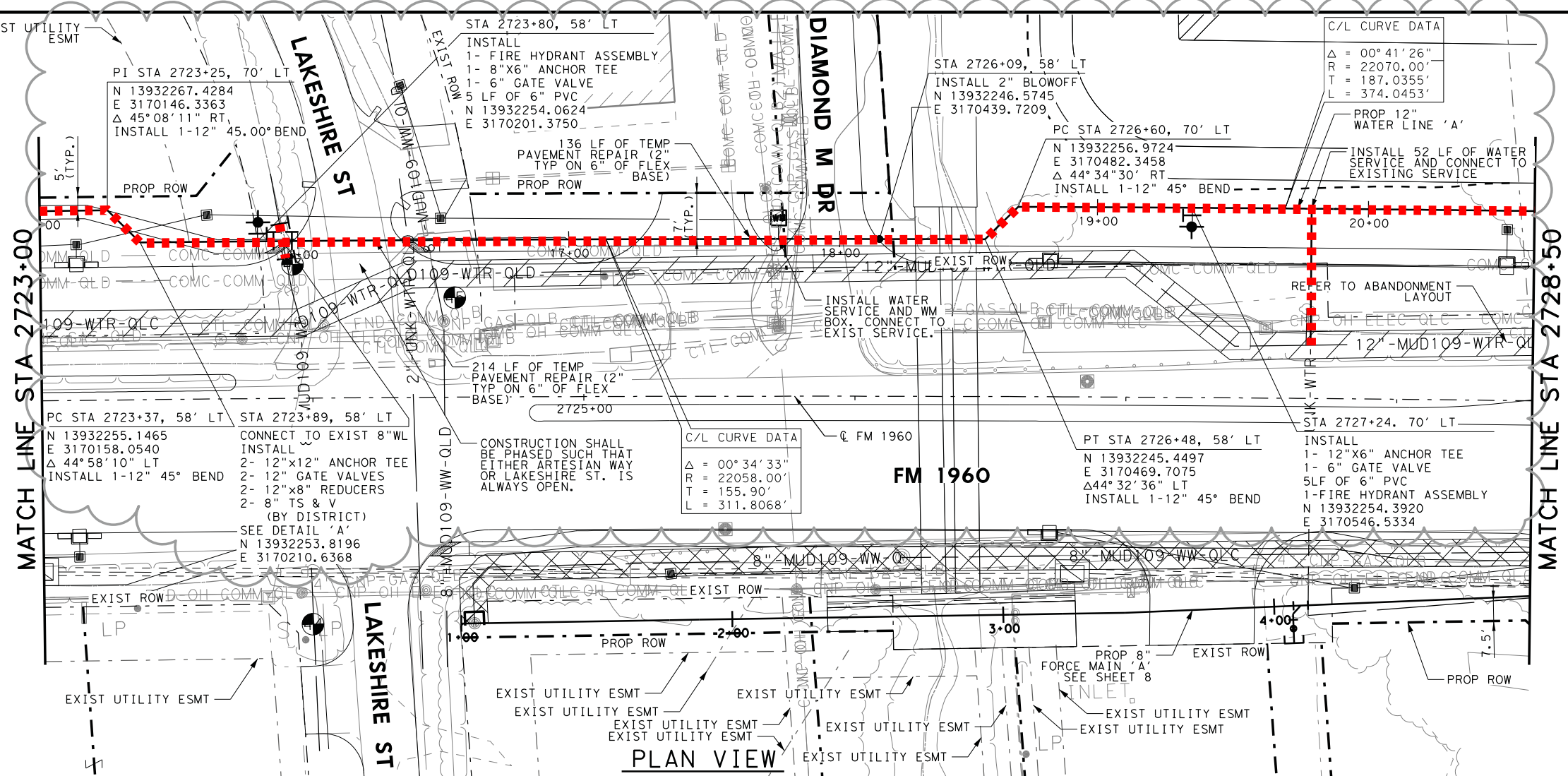


FM 1960			
FROM BF 1960A TO EAST OF TWIGSWORTH LN			
PROPOSED WATER LINE 'A'			
2723+00 TO 2728+50			
(HC MUD 109)			
SHEET 4 OF 14			
FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	522
1685	03	058	

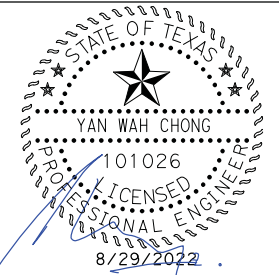
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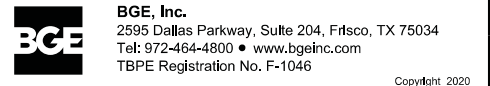
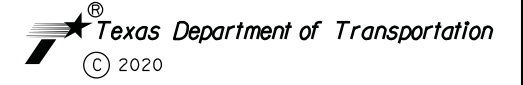
HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



- NOTES:
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DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2723+00 TO 2728+50

(HC MUD 109) SHEET 4 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	522
CONTROL	SECTION	JOB	
1685	03	058	

DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_33.dgn



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

C/L CURVE DATA
 $\Delta = 0^\circ 41' 26''$
 $R = 22070.00'$
 $T = 187.0355'$
 $L = 374.0453'$

STA 2730+33, 70' LT
 INSTALL
 1- 8"X6" ANCHOR TEE
 1- 6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932239.3249
 E 3170855.9701

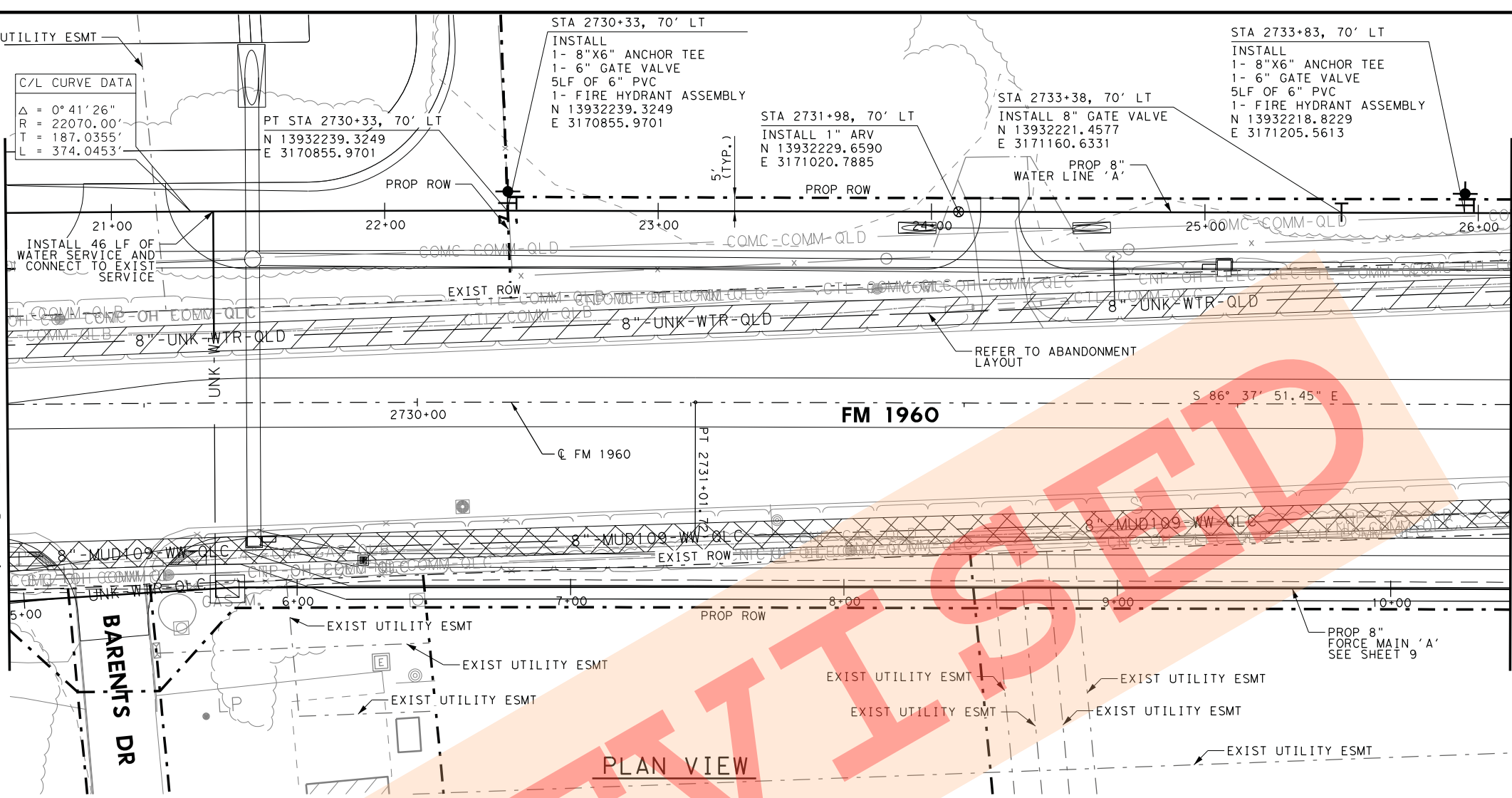
STA 2731+98, 70' LT
 INSTALL 1" ARV
 N 13932229.6590
 E 3171020.7885

STA 2733+38, 70' LT
 INSTALL 8" GATE VALVE
 N 13932221.4577
 E 3171160.6331

STA 2733+83, 70' LT
 INSTALL
 1- 8"X6" ANCHOR TEE
 1- 6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932218.8229
 E 3171205.5613

MATCH LINE STA 2728+50

MATCH LINE STA 2734+00



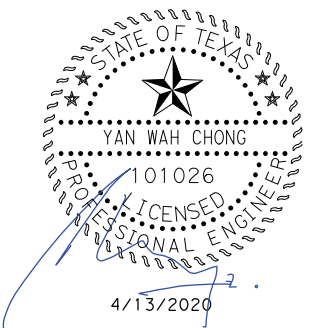
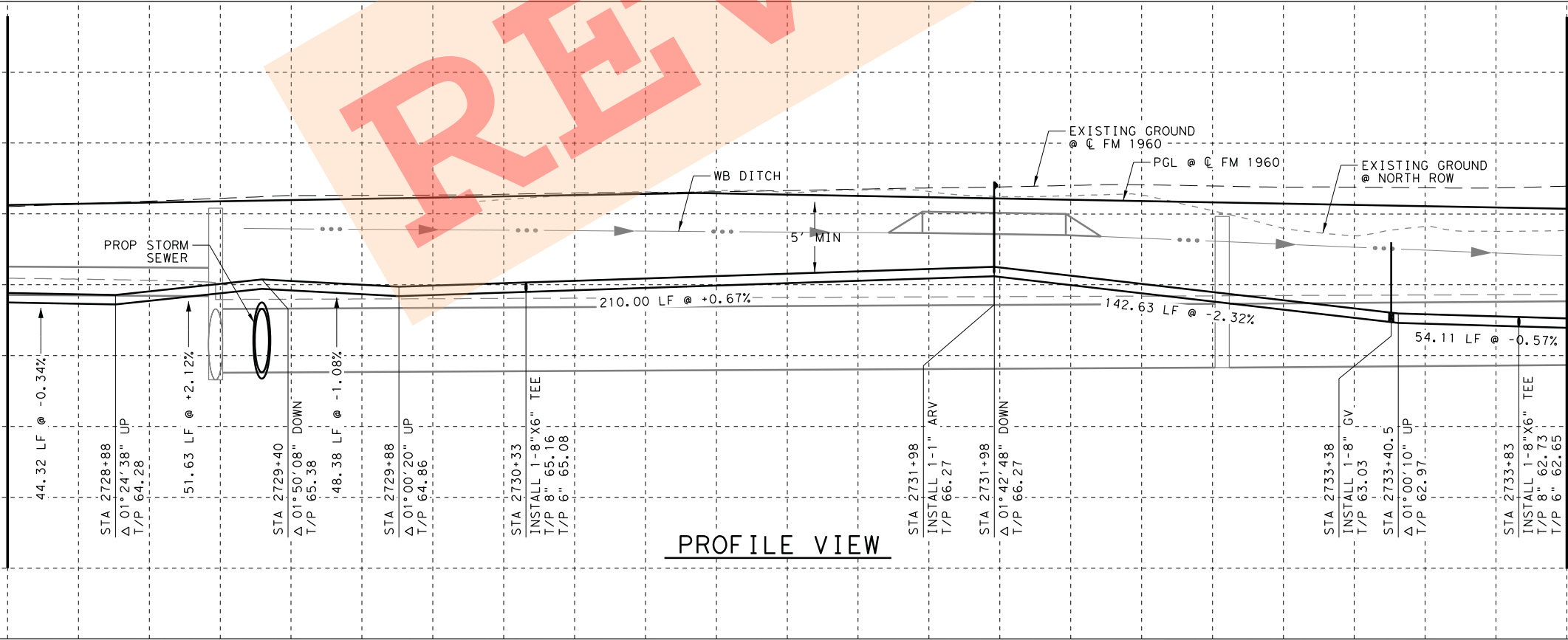
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REVIEWED

FILENAME: FM1960W_UTIL_34.dgn
 DRAWING DATE: 4/13/2020

MATCH LINE STA 2728+50

MATCH LINE STA 2734+00



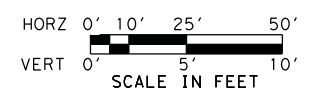
Texas Department of Transportation
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 TBPE Registration No. F-1046
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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2728+50 TO 2734+00

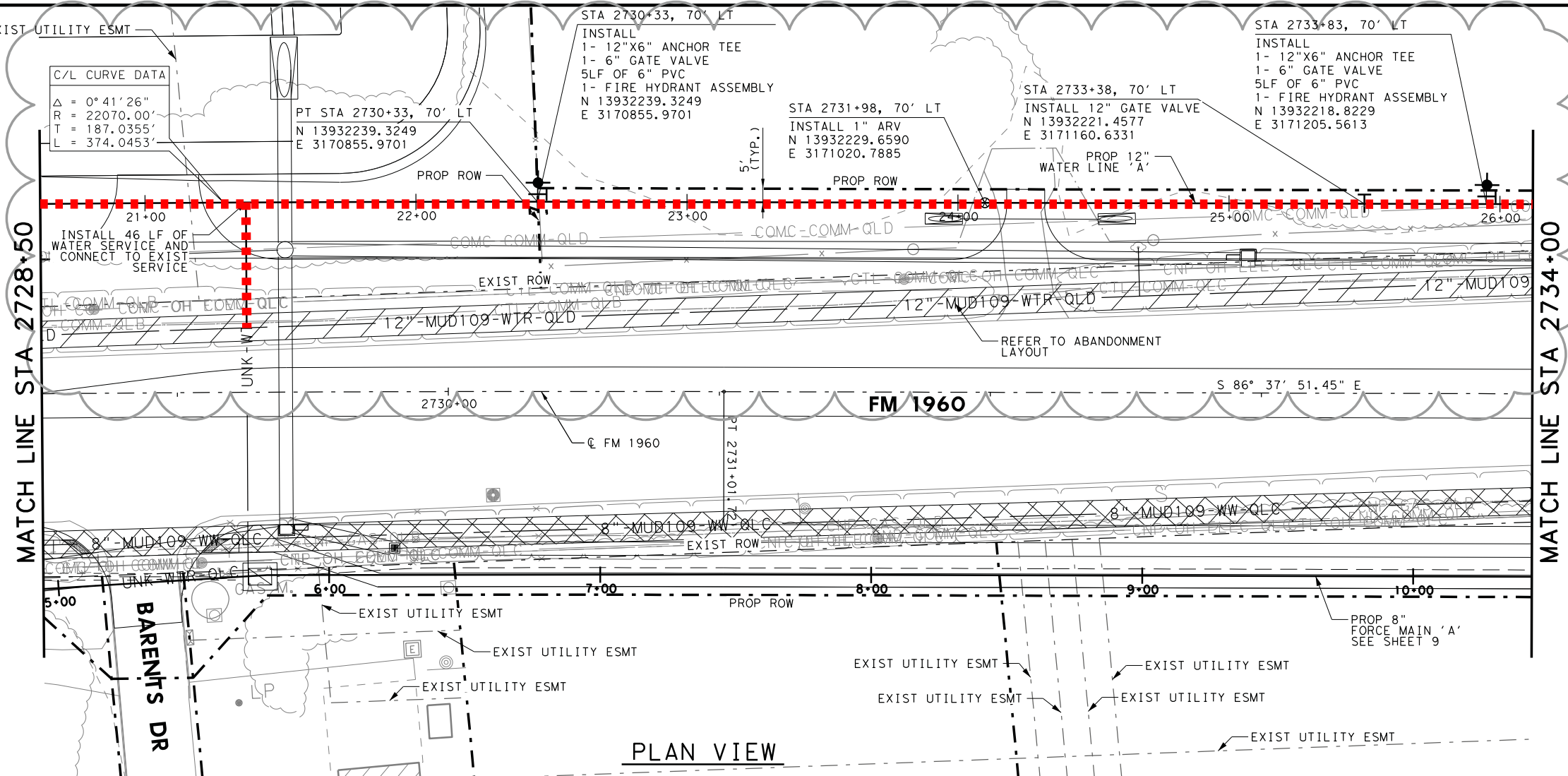
(HC MUD 109) SHEET 5 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	523
CONTROL	SECTION	JOB	
1685	03	058	

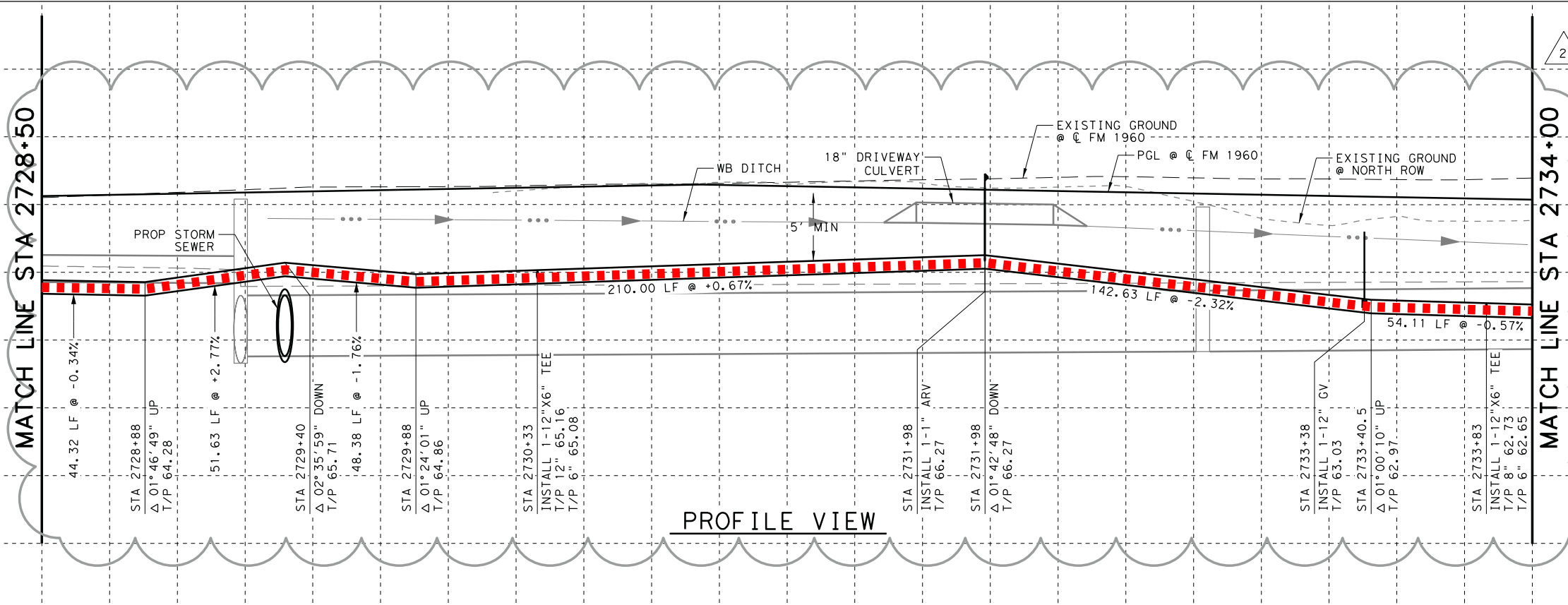


MATCH LINE STA 2728+50

MATCH LINE STA 2734+00



PLAN VIEW



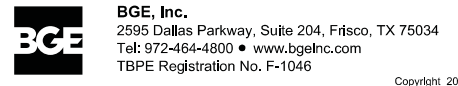
PROFILE VIEW

NOTES:

1. CONTRACTOR SHALL REMOVE & SALVAGE EXIST FIRE HYDRANT AND RETURN TO HARRIS COUNTY MUD109.
2. REFER TO HORIZONTAL AND VERTICAL CONTROL SHEETS FOR PROJECT CONTROL.
3. ALL WATER LINES SHALL BE PVC CLASS 150, DR-18, AWWA C-900 UNLESS OTHERWISE INDICATED.
4. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO PERFORMING THE WORK. EXIST UTILITY ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED.
5. ACCESS TO BUSINESSES SHALL BE MAINTAINED AT ALL TIMES. IF A BUSINESS HAS MULTIPLE DRIVEWAYS, ONE DRIVEWAY MUST REMAIN OPEN AT ALL TIMES. IF A BUSINESS ONLY HAS ONE DRIVEWAY, THE PROPOSED UTILITY SHALL BE INSTALLED BY TRENCHLESS METHODS.
6. CONTRACTOR SHALL LOCATE EXIST SERVICES. CONTRACTOR TO COORDINATE WITH MUD 109 TO REMOVE AND RELOCATE WATER METER/VAULT AND MAKE CONNECTIONS. REFER TO WATERLINE DETAILS FOR TYPICAL METER SETTINGS.



DATE	BY	REV	REVISION
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2728+50 TO 2734+00

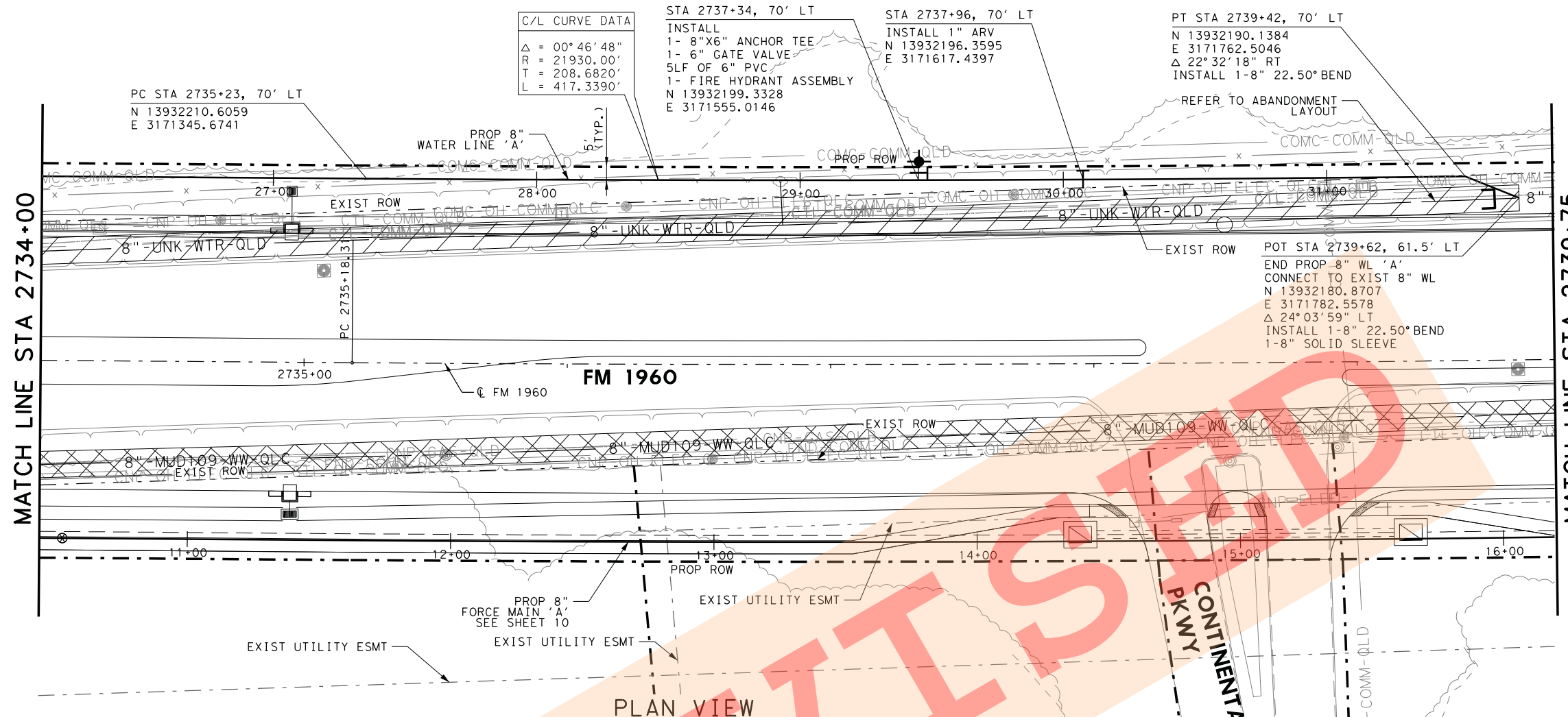
(HC MUD 109) SHEET 5 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	523

DRAWING DATE: 8/29/2022 FILENAME: FM1960W_UTIL_34.dgn



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



C/L CURVE DATA
 $\Delta = 00^\circ 46' 48''$
 $R = 21930.00'$
 $T = 208.6820'$
 $L = 417.3390'$

STA 2737+34, 70' LT
 INSTALL
 1- 8"X6" ANCHOR TEE
 1- 6" GATE VALVE
 5LF OF 6" PVC
 1- FIRE HYDRANT ASSEMBLY
 N 13932199.3328
 E 3171555.0146

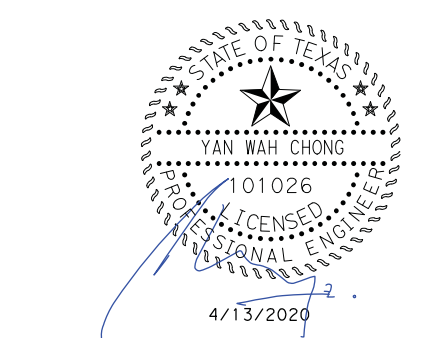
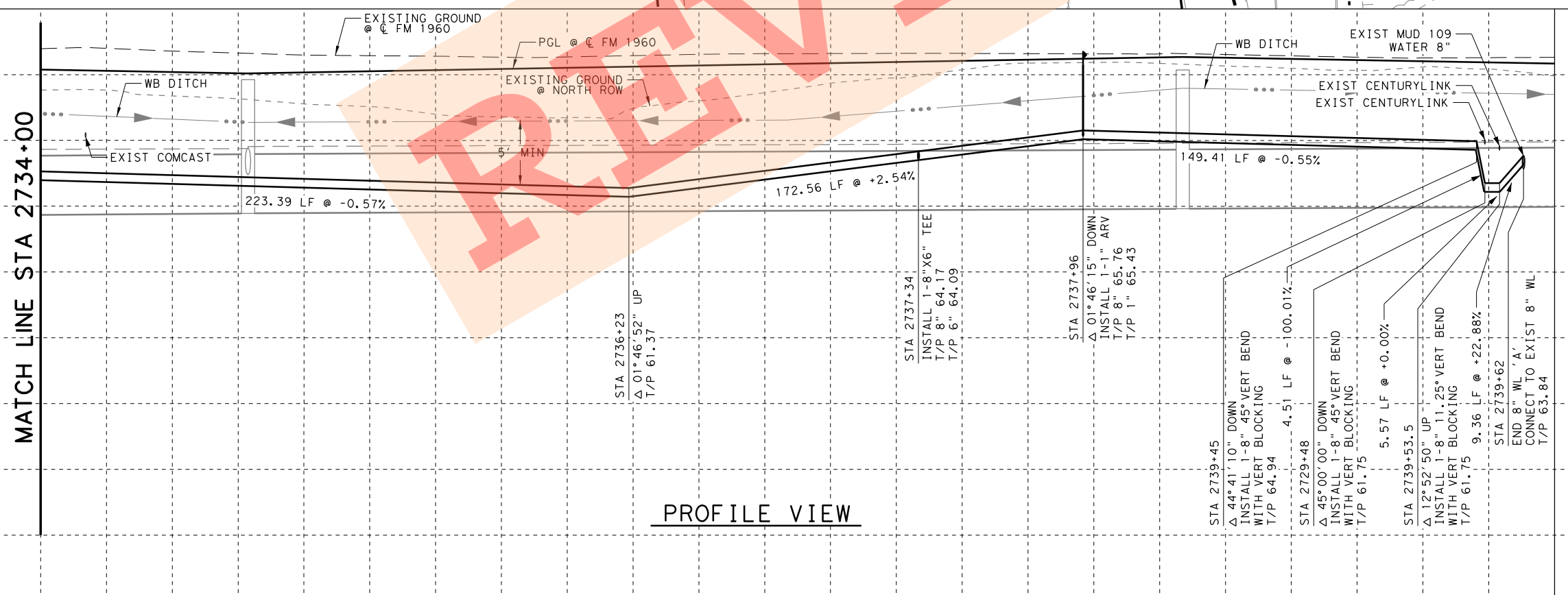
STA 2737+96, 70' LT
 INSTALL 1" ARV
 N 13932196.3595
 E 3171617.4397

PT STA 2739+42, 70' LT
 N 13932190.1384
 E 3171762.5046
 $\Delta 22^\circ 32' 18''$ RT
 INSTALL 1-8" 22.50° BEND
 REFER TO ABANDONMENT LAYOUT

POT STA 2739+62, 61.5' LT
 END PROP 8" WL 'A'
 CONNECT TO EXIST 8" WL
 N 13932180.8707
 E 3171782.5578
 $\Delta 24^\circ 03' 59''$ LT
 INSTALL 1-8" 22.50° BEND
 1-8" SOLID SLEEVE

NOTES:

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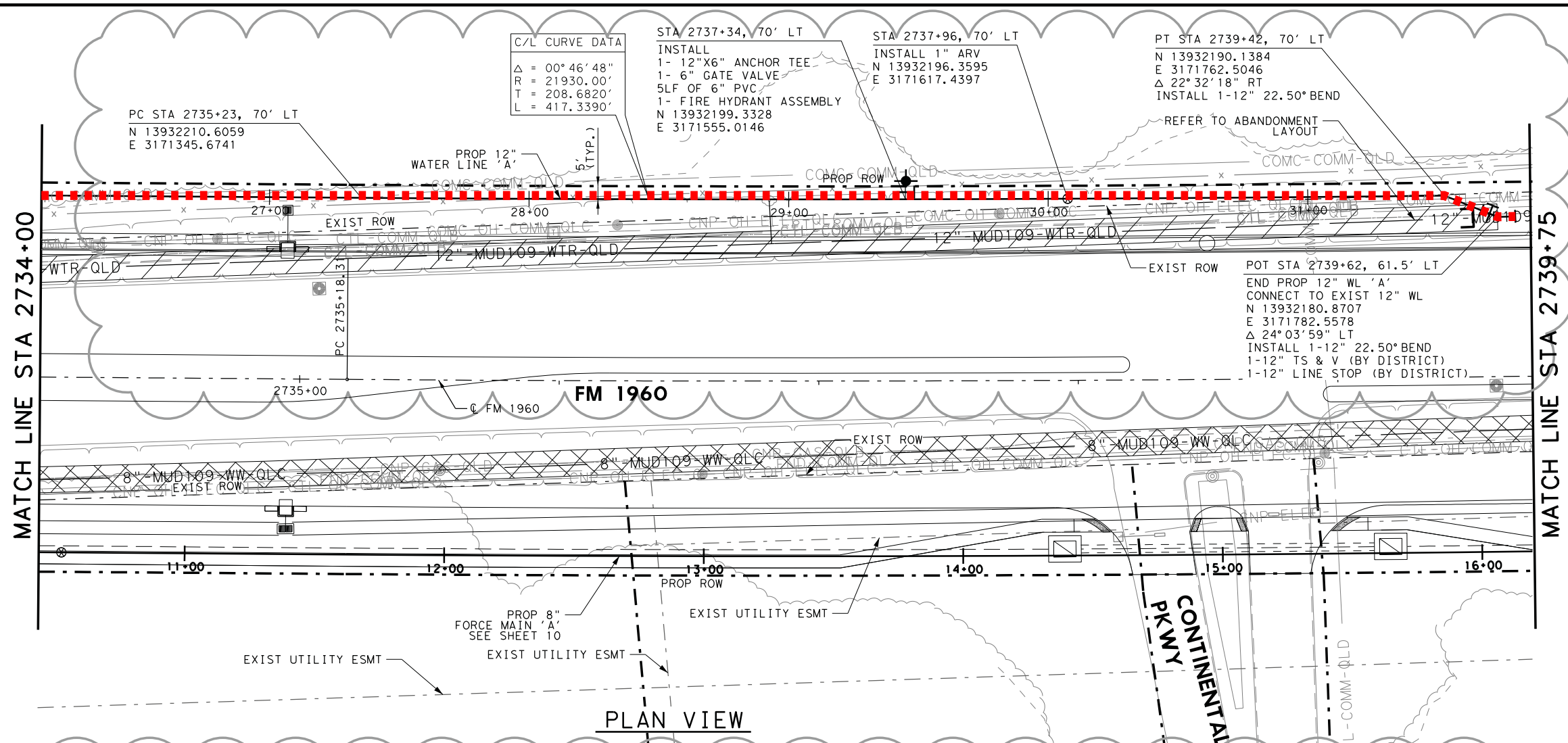
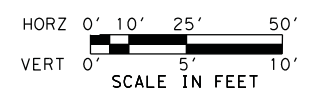
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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
 2734+00 TO 2739+75

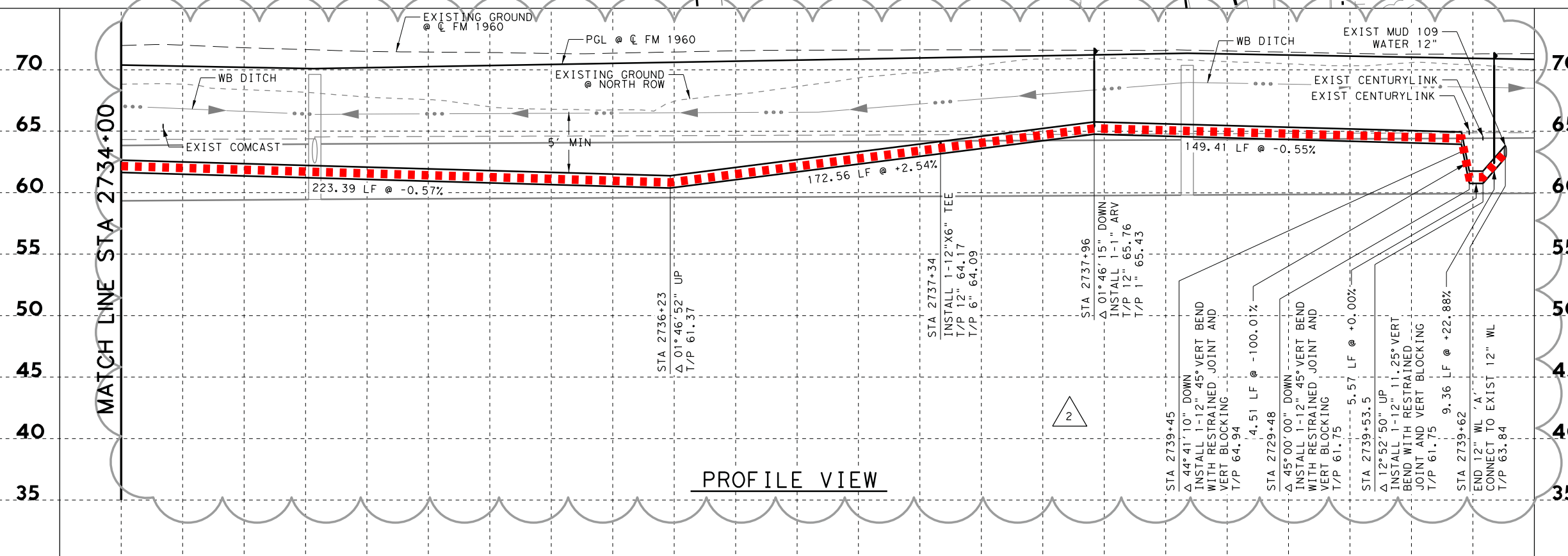
(HC MUD 109) SHEET 6 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	524
CONTROL	SECTION	JOB	
1685	03	058	

DRAWING DATE: 4/13/2020 FILENAME: FM1960W_UTIL_35.dgn

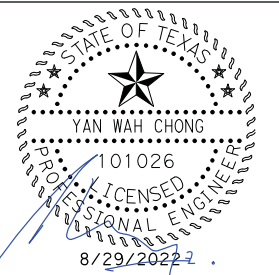


PLAN VIEW

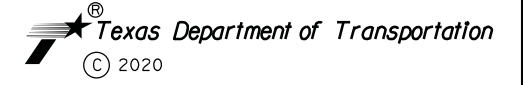


PROFILE VIEW

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DATE	BY	REV	REVISION
10/7/2021	YWC	1	ADDED RESTRAINED JOINTS
8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'A'
2734+00 TO 2739+75

(HC MUD 109) SHEET 6 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	524
CONTROL	SECTION	JOB	
1685	03	058	

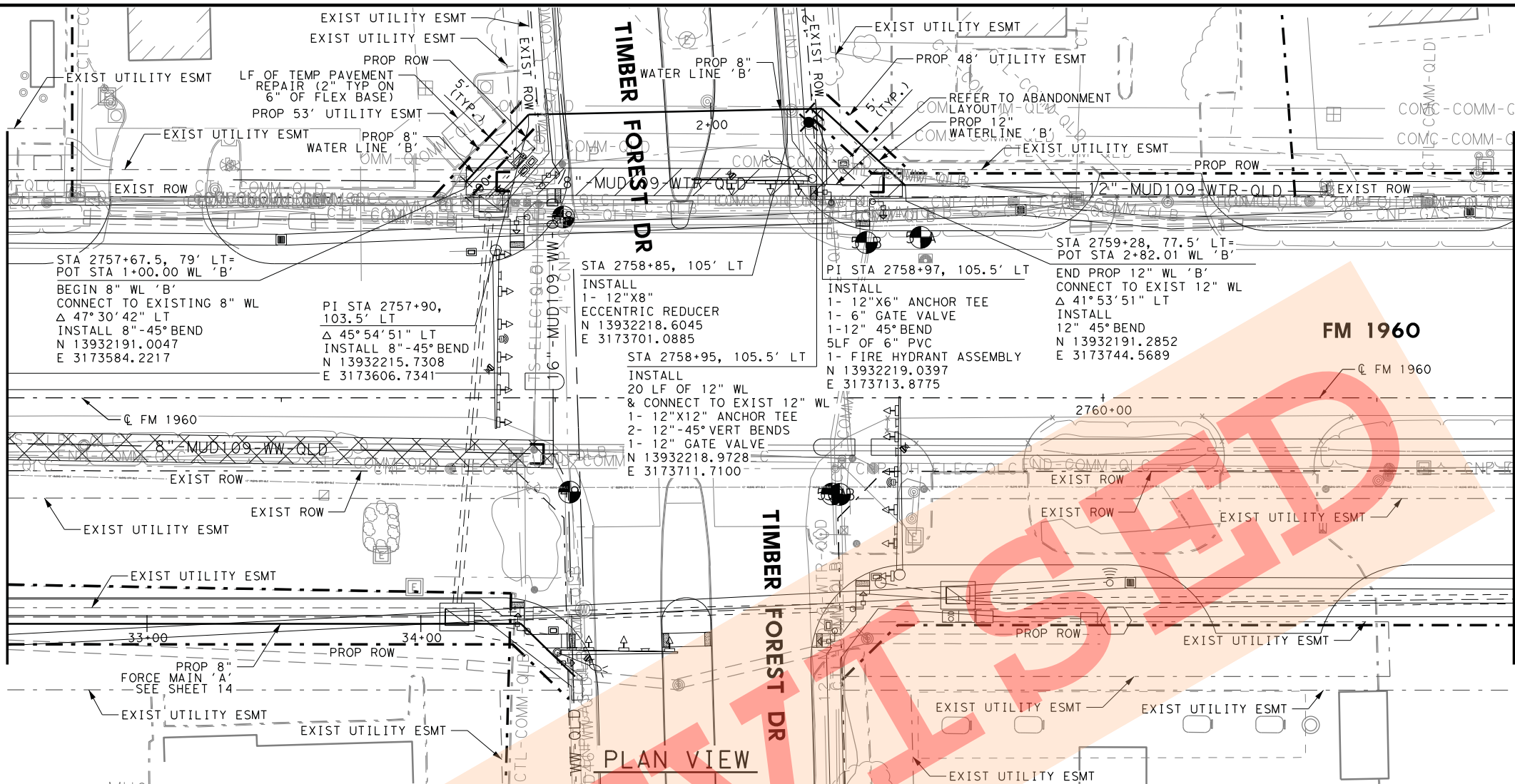
FILENAME: FM1960W_UTIL_35.dgn
 DRAWING DATE: 8/29/2022



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET

MATCH LINE STA 2756+00

MATCH LINE STA 2761+50



PLAN VIEW

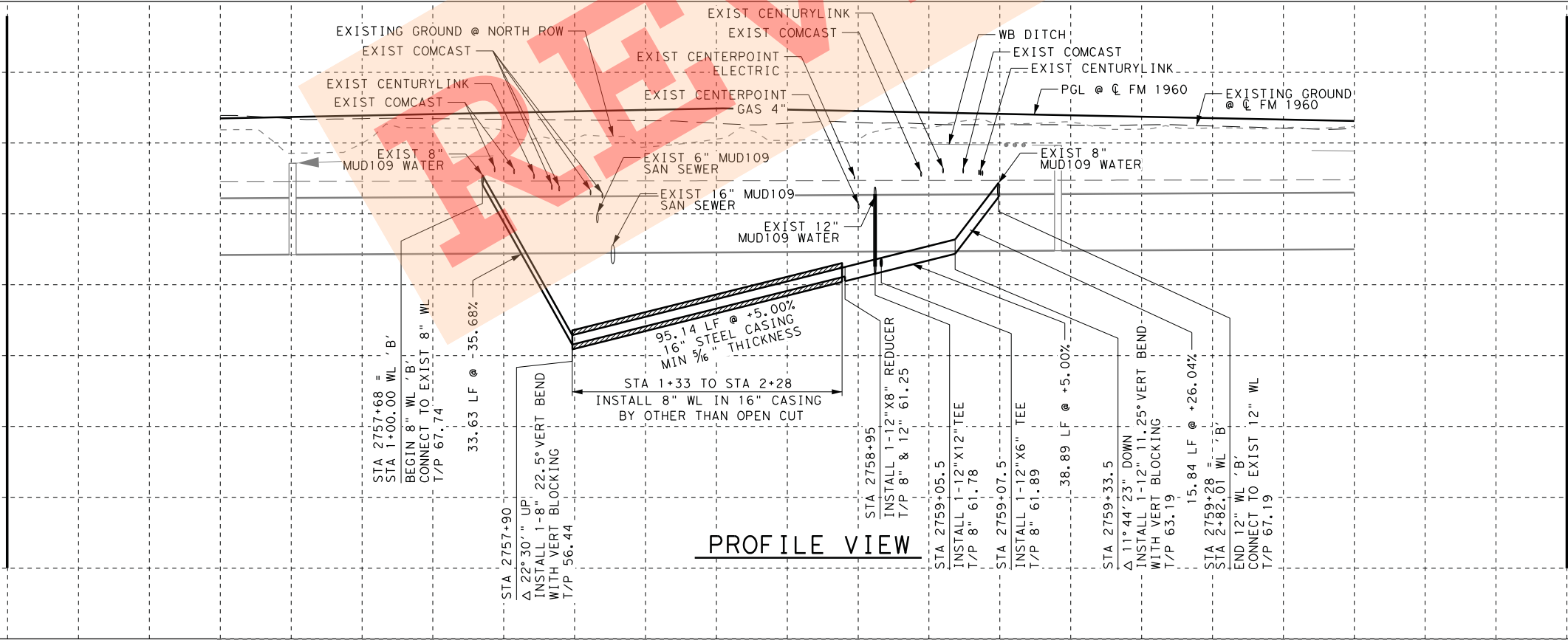
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FILENAME: FM1960W_UTIL_38.dgn

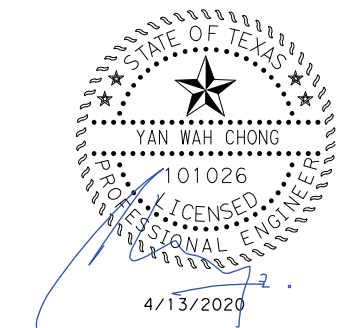
DRAWING DATE: 4/13/2020

MATCH LINE STA 2756+00

MATCH LINE STA 2761+50



PROFILE VIEW



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FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'B'
 2756+00 TO 2761+50

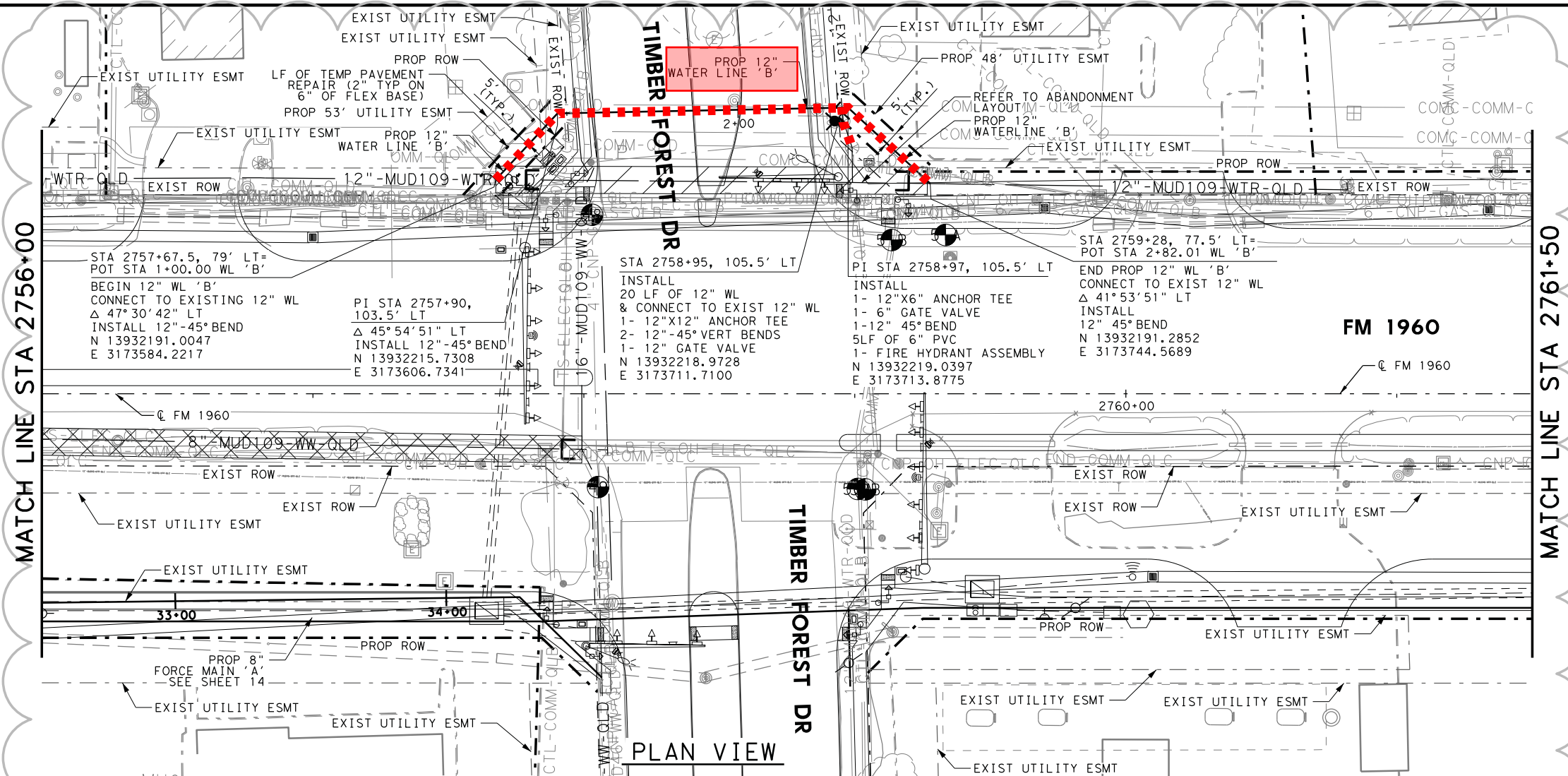
(HC MUD 109) SHEET 7 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	525
1685	03	058	

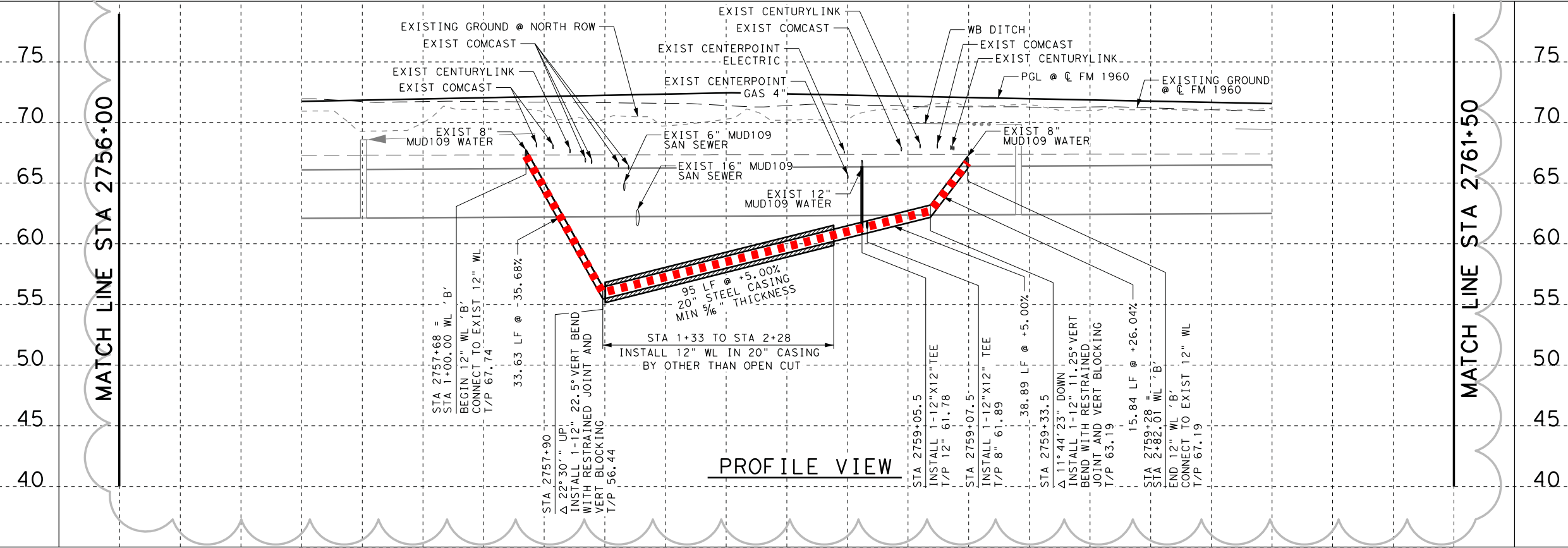
2760+00



HORZ 0' 10' 25' 50'
 VERT 0' 5' 10'
 SCALE IN FEET



PLAN VIEW

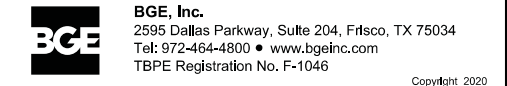
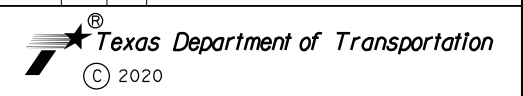


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8/29/2022	YWC	2	PROP & EXIST 8" WL UPDATED TO 12" WL



FM 1960
 FROM BF 1960A TO EAST OF TWIGSWORTH LN
PROPOSED WATER LINE 'B'
 2756+00 TO 2761+50

(HC MUD 109) SHEET 7 OF 14

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6			FM 1960
STATE	DISTRICT	COUNTY	SHEET NO.
TEXAS	HOU	HARRIS	
CONTROL	SECTION	JOB	
1685	03	058	525

FILENAME: FM1960W_UTIL_38.dgn
 DRAWING DATE: 8/29/2022