

SUBJECT: PLANS AND PROPOSAL ADDENDUMS
PROJECT: STP 2023 (675)MM CONTROL: 1433-02-044
COUNTY: COMAL
LETTING: 05/04/2023
REFERENCE NO: 0419

PROPOSAL ADDENDUMS

- _ PROPOSAL COVER
X BID INSERTS (SH. NO.: ALL)
X GENERAL NOTES (SH. NO.: G)

_ SPEC LIST (SH. NO.:)
_ SPECIAL PROVISIONS:)
_ ADDED:

DELETED:

_ SPECIAL SPECIFICATIONS:
_ ADDED:

DELETED:

X OTHER: PLAN SHEET AND OTHER CHANGES

DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

BID INSERTS

REVISED QUANTITIES FOR THE FOLLOWING BID ITEMS:

403-6001, 432-6002, 502-6001

ADDED THE FOLLOWING BID ITEMS:

545-6007

DELETED THE FOLLOWING BID ITEMS:

545-6019

GENERAL NOTES

SHEET G: ITEM 5 REVISED WORDING PARAGRAPH 2

PLAN SHEETS

SHEET 001: UPDATED TITLE SHEET TO SHOW ADDENDUM NO. 2
DESCRIPTION OF ABOVE CHANGES
(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

SHEET 003: REMOVED SHEETS 1366-1401 CMP SHEETS FROM INDEX OF SHEETS

SHEET 053: ADDED ITEM NO. 403-6001 TEMP SPL SHORING TO TCP SUMMARY SHEET

SHEET 067: REMOVED ITEM NO. 545-6017 AND REPLACED WITH ITEM NO. 545-6007

SHEET 080: DETENTION POND SUMMARY SHEET REVISE ITEM NO. 432-6002 QUANTITY

SHEETS 275-278, 280-283, 285-288 AND 290-293: ADDED ITEM NO. 403-6001

SHEETS 413-449: REPLACED ITEM NO. 545-6017 WITH ITEM NO. 545-6007

SHEET 611: ADDED NOTE TO CONTRACTOR FOR USE ON RETAINING WALLS 13A AND 13B

SHEET 620: REVISED DRAWDOWN ANALYSIS FOR RETAINING WALLS 9 AND 10

SHEETS 717-719: REVISED DETENTION POND LAYOUT GRADNG AND OUTFALL

SHEETS 763: ADDED CONCRETE DISSIPATERS, RIP-RAP AND QUANTITIES

SHEETS 1330-1365: UPDATED UTILITY PLANS SHEETS LAYOUTS WITH CURRENT GAS

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP 2023(675)MM		1
STATE	STATE DIST.	COUNTY	
TEXAS	SAT	COMAL, ETC	
CONT.	SECT.	JOB	HIGHWAY NO.
1433	02	044, ETC	FM 2252

STATE OF TEXAS

DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

FEDERAL AID PROJECT
PROJECT NO. STP 2023(675)MM
CCSJ: 1433-02-044, ETC
COMAL COUNTY
FM 2252

DESIGN SPEED = 40 MPH
AREA OF DISTURBED SOIL = 42.70 ACRES
ADT: 16,646 (2023)
26,738 (2053)
ACCESSIBILITY STANDARDS = PROWAG

REGISTERED ACCESSIBILITY SPECIALIST INSPECTION REQUIRED
TDLR NO. TABS2023013529

INDEX OF SHEETS
SEE SHEET 2 FOR INDEX OF SHEETS

CSJ: 1433-01-028
LIMITS: FROM EVANS ROAD
TO COMAL/BEXAR COUNTY LINE
FOR WORK CONSISTING OF EXPAND FROM 2 LANES
TO 4 LANES WITH RAISED MEDIAN OR CONTINUOUS
LEFT TURN LANE, BIKE LANES AND SIDEWALKS
LENGTH OF ROADWAY: 126.67 FT = 0.024 MI.
LENGTH OF BRIDGE: 155.44 FT = 0.029 MI.
LENGTH OF PROJECT: 282.11 FT = 0.053 MI.

CSJ: 1433-02-044
LIMITS: FROM BEXAR/COMAL COUNTY LINE
TO FM 3009
FOR WORK CONSISTING OF EXPAND FROM 2 LANES
TO 4 LANES WITH RAISED MEDIAN OR CONTINUOUS
LEFT TURN LANE, BIKE LANES AND SIDEWALKS
LENGTH OF ROADWAY: 13929.52 FT = 2.638 MI.
LENGTH OF BRIDGE: 1100.29 FT = 0.208 MI.
LENGTH OF PROJECT: 15029.81 FT = 2.846 MI.

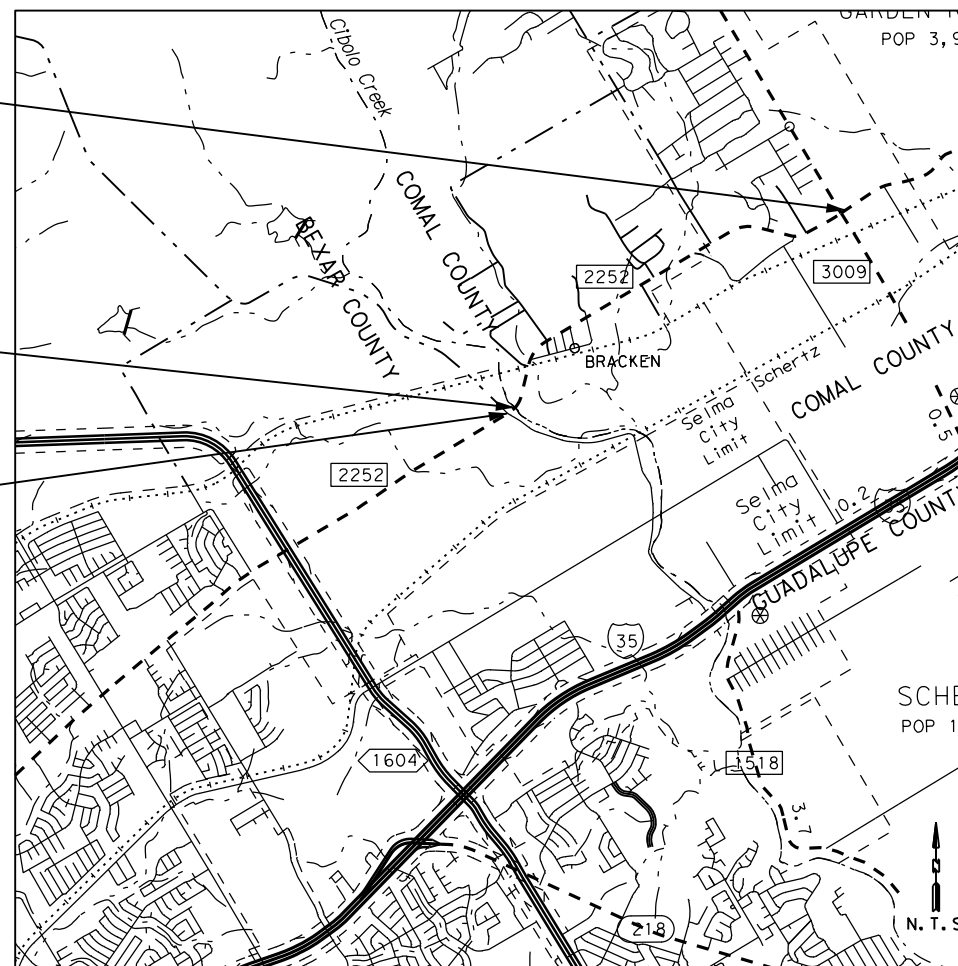
FINAL PLANS

LETTING DATE: _____
DATE CONTRACTOR BEGAN WORK: _____
DATE WORK WAS ACCEPTED: _____
FINAL CONTRACT COST: \$ _____
CONTRACTOR: _____

END PROJECT
END CCSJ: 1433-02-044
FM 2252
☉ FM 2252 STA. 262+34.65

END CSJ 1433-01-028
BEGIN CSJ 1433-02-044
FM 2252
☉ FM 2252 STA. 112+04.84

BEGIN PROJECT
BEGIN CSJ: 1433-01-028
FM 2252
☉ FM 2252 STA. 109+22.73



FINAL PLANS STATEMENT:

THE CONSTRUCTION WORK WAS PERFORMED
IN ACCORDANCE WITH THE PLANS.

AREA ENGINEER _____ P. E. _____ DATE _____

TEXAS DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION,
NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS
FOLLOWS, SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS
FOR ALL FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, JULY 5, 2022)

EXCEPTIONS: NONE
EQUATIONS: NONE
R. R. CROSSINGS: U. P. R. R.

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REVISED 4/19/2023

SUBMITTED FOR
LETTING 04/20/2023
Jim Cox, P.E.
TRANSPORTATION ENGINEER SUPERVISOR

RECOMMENDED FOR
LETTING 4/20/2023
DocuSigned by:
Clayton Kipp, P.E.
DIRECTOR OF TRANSPORTATION
PLANNING & DEVELOPMENT

REVIEWED FOR
LETTING 4/20/2023
DocuSigned by:
DeRoya, P.E.
TRANSPORTATION ENGINEER SUPERVISOR

APPROVED FOR
LETTING 4/20/2023
DocuSigned by:
Gina E. Gallups, P.E.
DISTRICT ENGINEER

FILE LOCATION AND NAME
T: \Engdata\Standards\Des\gn\TITLESHEET-2014Specs.DGN

LEVELS DISPLAYED	
1	

COUNTY: COMAL PROJ. NO. _____
HWY. NO. FM 2252 LETTING DATE: MAY 2023
DATE ACCEPTED _____

DATE: 02/17/2023 02:04 PM
FILE: \\txdot.projectwiseonline.com:TXDOT14\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Set\1. General\Index.dgn

854-856 JUNCTION BOX DETAILS A-107
857-859 JUNCTION BOX DETAILS GOLL-300-SS
860-862 JUNCTION BOX DETAILS GOLL-303-JB
863-868 MANHOLE/INLET CONNECTION TO BOX CULVERT

DRAINAGE DETAILS STANDARDS

869 **ARMOR CURB SLOT
870 TYPE A ARMOR CURB SLOT (SPL)
871 TYPE B ARMOR CURB SLOT (SPL)
872-873 &BCS
874 *CGT-PCO
875 *CGT-PCU
876 &CH-PW-S(MOD)
877 &ECD
878 *PB
879 *PDD
880 *PRM
881-882 *PCO
883 *PJB
884-885 *PCU
886 *PBG
887 *PAZD
888-889 *PSL
890 &PW(MOD)
891 &PW
892-893 *, &RAC
894 &SCP-4
895 &SCP-5
896 *SCP-6
897 *SCP-7
898 &SCP-10
899 &SCP-MD
900-901 *SETB-CD
902-904 *SETB-FW-S
905-906 *SETB-PD
907-908 *, &SETP-CD
909 *SETP-PD
910-911 *SETP-PD-A
912-914 **SIDEWALK BRIDGE
915 *SW-0

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922 ESTIMATED QUANTITIES AND BEARING SEAT ELEVATIONS
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929-930 ABUTMENT NO.8 (PHASE II)
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932 INTERIOR BENT NO.2 PHASE II
933 INTERIOR BENT NO.3 PHASE I
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935 INTERIOR BENT NO.4 PHASE I
936 INTERIOR BENT NO.4 PHASE II
937 INTERIOR BENT NO.5 PHASE I
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940 INTERIOR BENT NO.6 PHASE II
941 INTERIOR BENT NO.7 PHASE I
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945 INTERIOR BENT TRANSITION DETAILS
946-947 AESTHETIC TREATMENT FOR BRIDGE COLUMNS
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949 FRAMING PLAN (SPANS 1-2) PHASE II
950 255.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-2) (PHASE I)
951 255.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 1-2) (PHASE II)
952 TYPICAL TRANSVERSE SECTION (SPANS 1-2)
953 FRAMING PLAN (SPANS 3-5) PHASE I
954 FRAMING PLAN (SPANS 3-5) PHASE II
955 326.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 3-5) (PHASE I)
956 326.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 3-5) (PHASE II)
957 TYPICAL TRANSVERSE SECTION (SPANS 3-5)
958 FRAMING PLAN (SPANS 6-7) PHASE I
959 FRAMING PLAN (SPANS 6-7) PHASE II
960 240.00' PRESTRESSED CONCRETE GIRDER UNIT (SPANS 6-7) (PHASE I)
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963 DRILLED SHAFT DETAILS
963A RAIL ANCHORAGE OVER PCP
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970-971 **BRSM (MOD)
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973 *CRR
974-975 #CSAB
976-977 #IGD
978-980 #IGEB
981-982 #IGMS
983 #IGND
984 #IGTS
985-986 #MEBR (C)
987-990 #PCP
991 #PCP-FAB
992-993 #PMD
994 #RAILROAD FENCE DETAILS
995 #SEJ-B
996-998 #TYPE C221
999-1000 #TYPE T221

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1001 TRAFFIC SIGNAL NOTES
1002-1004 FM 2252 AT MARBACH LN PROPOSED SIGNAL LAYOUT
1005-1007 FM 2252 AT BAT CAVE ROAD PROPOSED SIGNAL LAYOUT
1008-1010 FM 2252 AT TONKAWA PASS FLASHING BEACON LAYOUT
1011-1014 FM 2252 Z-CROSSING PROPOSED FLASHING BEACON LAYOUT
1015-1017 FM 2252 AT FM 3009 PROPOSED SIGNAL LAYOUT

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1019-1024 @ED(1)-14 THRU ED(6)-14
1025 @ED(8)-14
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1032 @LUM-A-12
1033 @MA-C-12
1034 @MA-D-12
1035 @MTS-18
1036 @RPDD-RADD-20
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1125 *D&OM (2)-20
1126 *D&OM (3)-20
1127 *D&OM (4)-20
1128 *D&OM (6)-20
1129 *D&OM (VIA)-20
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1132-1134 *SMD(BR-1) THRU SMD(BR-3)-14
1135 *SMD(GEN)-08
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1137 *SMD(SLIP-2)-08
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1185 *PM(2)-22
1186 *PM(3)-22
1187 *PM(4)-22A
1187A *PM(5)-22
1188 *RCD(1)-22
1189 *RCD(2)-22
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1193-1194 **TWLTL(3)-21 THRU TWLTL(4)-21
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1274 *EC (3)-16
1275-1277 *EC (9)-16
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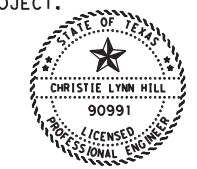
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THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE (*, **) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



Christie Lynn Hill, P.E.
02/17/2023

REVISED 4/19/2023

*, &, @, □ STATE STANDARDS
**, **, &&, @, □ DISTRICT STANDARDS

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE (@, @@) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



Scott Schmidt
02/17/2023

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE (&, &&) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



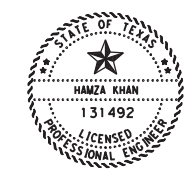
Digitally signed by Veronica N. Hodges
Date: 2023.02.17 16:02:01 -0600
Veronica N. Hodges
02/17/2023

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE (#, **) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



Sharni Nava
02/21/2023

THE STANDARD SHEETS SPECIFICALLY IDENTIFIED ABOVE (□, □□) HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.



Hanza Khan
02/17/2023

FM 2252 INDEX OF SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	3	

Control: 1433-02-044

County: Comal

Highway: FM 2252

*****GENERAL NOTES*****
2014 Specification Book (Revised January 18, 2023)

=====**Basis of Estimate**=====

CCSJ 1433-02-044

Item	Description	Rate/Area		Quant-Unit
FM 2252				
168	Vegetative Watering	0.016 MG/SY	59,633 SY	954 MG
3076	Tack Coat	0.10 GAL/SY	58,008 SY	5800 GAL
FM 2252 At Marbach Intersection				
3076	Tack Coat	0.10 GAL/SY	6,069 SY	607 GAL
FM 2252 At Bat Cave Intersection				
3076	Tack Coat	0.10 GAL/SY	949 SY	95 GAL
Turnaround				
260(Subgrade)	Lime (6% by Weight)	36.4 LBS/SY	7,438 SY	135 TON
3076	Tack Coat	0.10 GAL/SY	6,843 SY	684 GAL
Bracken Dr				
168	Vegetative Watering	0.016 MG/SY	6,591 SY	106 MG
FM 3009 Intersection				
168	Vegetative Watering	0.016 MG/SY	1,401 SY	22 MG
275(Subgrade)	Cement (6% by Weight)	12.7 LBS/SY	4,647 SY	30 TON
3076	Tack Coat	0.10 GAL/SY	13,372 SY	1337 GAL

=====**Asphalt Concrete Pavement**=====

Type	Location	Depth	Rate/Area	Quant-Tons
CCSJ 1433-01-028				
Type	Location	Depth	Rate/Area	Quant-Tons
SP-D SAC-B (70-22)	FM 2252	2"	115 lbs/sy-in (908sy)	104 Tons
CCSJ 1433-02-044				
Type	Location	Depth	Rate/Area	Quant-Tons
SP-D SAC-B (70-22)	FM 2252	2"	115 lbs/sy-in (116,348sy)	13,380 Tons
SP-D SAC-B (70-22)	Marbach Intersection	2"	115 lbs/sy-in(2,822sy)	325 Tons

Control: 1433-02-044

County: Comal

Highway: FM 2252

Sheet 50

SP-D SAC-B (70-22)	Bat Cave Intersection	2"	115 lbs/sy-in(462sy)	53 Tons
SP-D SAC-B (70-22)	Turnaround	2"	115 lbs/sy-in (6,242sy)	718 Tons
SP-D SAC-B (70-22)	Bracken Dr	2"	115 lbs/sy-in (8,375sy)	963 Tons
SP-D SAC-B (70-22)	FM 3009 Intersection	2"	115 lbs/sy-in (22,687sy)	2,609 Tons
	Total		157,844 SY	18,152 Tons
HMA TY-C (70-22)	FM 2522	2"	115 lbs/sy-in (57,947sy)	6,664 Tons
HMA TY-C (70-22)	Marbach Intersection	2"	115 lbs/sy-in (3,013sy)	347 Tons
HMA TY-C (70-22)	Bat Cave Intersection	2"	115 lbs/sy-in (516sy)	59 Tons
HMA TY-C (70-22)	Turnaround	2"	115 lbs/sy-in (6,843sy)	787 Tons
HMA TY-C (70-22)	Bracken Dr	2"	115 lbs/sy-in (8,851 sy)	1018 Tons
HMA TY-C (70-22)	FM 3009 Intersection	2"	115 lbs/sy-in (4,268sy)	491 Tons
	Total		81,438 SY	9,366 Tons
TY B (64-22)	FM 2252	4"	110 lbs/sy-in (58,012sy)	12,763 Tons
TY B (64-22)	Turnaround	4"	110 lbs/sy-in (6,843sy)	1,505 Tons
TY B (64-22)	Marbach Intersection	5" (1 st layer)	110 lbs/sy-in (3,013sy)	828 Tons
TY B (64-22)	Marbach Intersection	5" (2nd layer)	110 lbs/sy-in (3,057sy)	841 Tons
TY B (64-22)	Bat Cave Intersection	5" (1 st layer)	110 lbs/sy-in (451sy)	124 Tons

△ Revised: 04/19/2023

Control: 1433-02-044

County: Comal

Highway: FM 2252

TY B (64-22)	Bat Cave Intersection	5" (2nd layer) 110 lbs/sy-in (498sy)	137 Tons
TY B (64-22)	FM 3009 Intersection	3.5" (1 st layer) 110 lbs/sy-in (4,268sy)	822 Tons
TY B (64-22)	FM 3009 Intersection	3.5" (2nd layer) 110 lbs/sy-in (4,457sy)	858 Tons
TY B (64-22)	FM 3009 Intersection	4" (3rd layer) 110 lbs/sy-in (4,647sy)	1,022 Tons
Total		85,246 SY	18,900 Tons

===== Surface Treatment Data =====

**CCSJ 1433-02-044
FM 2252**

Description Area	Underseal Course 57,947 sy	Prime Coat 58,012 sy
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-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 11,589 gal	0.20/1 = 11,602 gal
aggrate--type/gr		Ty B/Gr 5
aggrate--rate(cy/sy)		1/140 = 414 cy

FM 2252 and Marbach Intersection

Description Area	Underseal Course 3,013 sy
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-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 602 gal
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FM 2252 and Bat Cave Intersection

Description Area	Underseal Course 516 sy
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-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 103 gal
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Control: 1433-02-044

County: Comal

Highway: FM 2252

Turnaround

Description Area	Underseal Course 6,843 sy	Prime Coat 6,843sy
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-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 1,369 gal	0.20/1 = 1,369 gal
aggrate--type/gr		Ty B/Gr 5
aggrate--rate(cy/sy)		1/140 = 49 cy

Bracken Dr

Description Area	Underseal Course 8,851 sy	Prime Coat 8,851 sy
------------------	------------------------------	------------------------

-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 1,770 gal	0.20/1 = 1,770 gal
aggrate--type/gr		Ty B/Gr 5
aggrate--rate(cy/sy)		1/140 = 63 cy

FM 3009 Intersection

Description Area	Underseal Course 4,268 sy	Prime Coat 4,647 sy
------------------	------------------------------	------------------------

-----See Bid Item-----

asphalt--rate(gal/sy)	0.20/1 = 854 gal	0.20/1 = 929 gal
aggrate--type/gr		Ty B/Gr 5
aggrate--rate(cy/sy)		1/140 = 33 cy

--General--

The following State, District, Local and/or Utility Standards have been modified:
RW(TRF)MOD, CH-PW-S(MOD), PW(MOD), BRSM(MOD)

Contact the Engineer or the City when construction operations are within 400 feet of a signalized intersection to determine/verify the location of loop detectors, conduit, ground-boxes, etc. Repair or replace any signal equipment damaged by construction operations. The method of repair or replacement shall be pre-approved and inspected. Depending on the type and extent of the damage, the Engineer reserves the right to perform the repair or replacement work and the Contractor will be billed for this work.

△ Revised: 04/19/2023

Control: 1433-02-044

County: Comal

Highway: FM 2252

Any materials removed and not reused and determined to be salvageable shall be stored within the project limits at an approved location or delivered undamaged to the storage yard as directed. Deface traffic signs so that they will not reappear in public as signs.

Any sign panels that are adjusted or removed and replaced, shall be done the same workday unless otherwise approved. This work shall be considered subsidiary to Item 502.

Notify the Engineer at least two weeks prior to a proposed traffic pattern change(s) that will require a revision to traffic signals.

Locate and reference all manholes and valves within the construction area with station and offset or GPS. Each manhole and valve shall be identified by its owner (City of Garden Ridge, City of Schertz, Centerpoint Energy etc.). No roadwork will begin until this list has been submitted. All valves and manhole covers have to be accessible at all times, therefore; temp. CTB, material stockpiles, etc. cannot be placed over these valves or covers.

Coordinate with the City of Garden ridge to Adjust water valves and meters at a minimum of three days in advance. The contractor will contact Steven Steinmetz, Public Works Director, with City of Garden Ridge at 210-651-6831.

Coordinate with the City of Schertz to Adjust water valves at a minimum of three days in advance. The contractor will contact Jerad W. Moheit Water/Wastewater Superintendent with City of Schertz at 210-619-1815.

The Contractor has the option to adjust or construct all manholes and valves to final pavement elevations prior to the final mat of HMA or after final mat of HMA. If between the final elevation adjustment and the final mat of HMA, the manholes and valves are going to be exposed to traffic, place temporary asphalt around the manhole and valve to provide a +/- 50:1 taper. The cost of elevation adjustment and the concrete apron around the manhole and valve will be part of the manhole and valve work. The asphalt tapers are part of the HMA work.

Hurricane Evacuation

Hurricane Season is from June 1 thru November 30. As the closest metropolitan city inland from the Texas Coast, the City of San Antonio is a major shelter destination during mandatory hurricane evacuations. As such, planned work zone lane or road closures may be restricted and/or suspended during mandatory hurricane evacuation operations. The District will coordinate these restrictions at a minimum H-120 from any projected impact to the Texas Coast.

No time charges will be made if the Engineer determines that work on the project was impacted by the hurricane.

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The Engineer may order changes in the Traffic Control Plan to accommodate evacuation traffic, and may suspend the work, all or in part, to ensure timely completion of this work. All work to implement changes in the Traffic Control Plan will be paid through existing bid prices or through Item 9.5, Force Account. However, the Department will not entertain any request for delay damages, loss of efficiency that may be attributed to the restriction or suspension of road or lane closures, or to changes in the Traffic Control Plan.

In accordance with the Underground Facility Damage Prevention Act (One Call Bill) the phone number for a utility locator is 811. It is the Contractor's responsibility to plan for utility locators as needed.

Underground utilities owned by the Texas Department of Transportation may be present within the Right-Of-Way. Call or email the TxDOT offices listed below for locates a minimum of 48 hours in advance of excavation. If city or town owned irrigation facilities are present, call the appropriate department of the local city or town a minimum of 48 hours in advance of excavation. The Contractor is liable for all damages incurred to the above-mentioned utilities when working without having the utilities located prior to excavation.

For signal and ITS locates call TransGuide at 210-731-5136 or email sat_its_locates@txdot.gov for ITS locates and signal.request@txdot.gov for signal locates.

Contractor questions on this project are to be addressed to the following individual(s): Area Engineer, Will Lockett, Will.Lockett@txdot.gov

Questions may be submitted via the Letting Pre-Bid Q&A web page. This webpage can be accessed from the Notice to Contractors dashboard located at the following Address: <https://tableau.txdot.gov/views/ProjectInformationDashboard/NoticetoContractors>


All contractor questions will be reviewed by the Engineer. All questions and any corresponding responses that are generated will be posted through the same Letting Pre-Bid Q&A web page.

The Letting Pre-Bid Q&A web page for each project can be accessed by using the dashboard to navigate to the project you are interested in by scrolling or filtering the dashboard using the controls on the left. Hover over the blue hyperlink for the project you want to view the Q&A for and click on the link in the window that pops up.

The Contractor must measure the vertical clearance at each structure after the final surface of the roadway is completed and provide the vertical clearance measurement to the Engineer.

--Item 5--

Taper ACP placed at curb inlets, traffic inlets and slotted drains.

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A low clearance horizontal boom or equivalent equipment is required for construction in the vicinity of the CPS Energy electric lines to provide vertical clearance of equipment during construction. Contact CPS Energy Utility Coordination Group sixteen (16) week in anticipation of pole bracing. The estimated duration for pole bracing is 6 to 10 weeks (or longer if temporary construction easements are required) after invoice is paid. For de-energizing or sleeving of the overhead electrical lines depicted on the plans, please contact CPS Energy Utility Coordination Group sixteen (16) week in anticipation of needed de-energization. The estimated duration for de-energizing is approximately 4 to 6 weeks (after invoice is paid) but could vary on system scenario and back feed requirements. De-energizing may not be possible in all instances or may be restricted during specific periods of time due to load demand. Contractor will be reimbursed for the invoice cost for pole bracing and/or de-energizing or sleeving through force account.

Prevention of Migratory Bird Nesting

It is anticipated that migratory birds, a protected group of species, may try to nest on bridges, culverts, vegetation, or gravel substrate, at any time of the year. The preferred nesting season for migratory birds is from February 15 through October 1. When practicable, schedule construction operations outside of the preferred nesting season. Otherwise, nests containing migratory birds must be avoided and no work will be performed in the nesting areas until the young birds have fledged.

Structures

Bridge and culvert construction operations cannot begin until swallow nesting prevention is implemented, until after October 1 if it's determined that swallow nesting is actively occurring, or until it's determined swallow nests have been abandoned. If the State installed nesting deterrent on the bridges and culverts, maintain the existing nesting deterrent to prevent swallow nesting until October 1 or completion of the bridge and culvert work, whichever occurs earlier. If new nests are built and occupied after the beginning of the work, do not perform work that can interfere with or discourage swallows from returning to their nests. Prevention of swallow nesting can be performed by one of the following methods:

1. By February 15 begin the removal of any existing mud nests and all other mud placed by swallows for the construction of nests on any portion of the bridge and culverts. The Engineer will inspect the bridges and culverts for nest building activity. If swallows begin nest building, scrape, or wash down all nest sites. Perform these activities daily unless the Engineer determines the need to do this work more frequently. Remove nests and mud through October 1 or until bridge and culvert construction operations are completed.
2. By February 15 place a nesting deterrent (which prevents access to the bridge and culvert by swallows) on the entire bridge (except deck and railing) and culverts. This work is subsidiary to the various bid items.

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No extension of time or compensation payment will be granted for a delay or suspension of work caused by nesting swallows.

Provide a non-intrusive back-up alarm system on all heavy equipment used in close proximity to residential areas. This item is subsidiary to various bid items.

When a precast or cast-in-place concrete element is included in the plans, a precast concrete alternate may be submitted in accordance with "Standard Operating Procedure for Alternate Precast Proposal Submission" found online at <https://www.txdot.gov/inside-txdot/forms-publications/consultants-contractors/publications/bridge.html#design>. Acceptance or denial of an alternate is at the sole discretion of the Engineer. Impacts to the project schedule and any additional costs resulting from the use of alternates are the sole responsibility of the Contractor.

Excavation within 5 feet of an existing CPS Energy pole will require pole bracing. Contact CPS Energy utility coordination to request pole bracing (Customer Engineering 210-353-4050 or Kevin Phillips, KTPHILLIPS@CPSENERGY.COM). The estimated duration for the pole bracing process is approximately 10 to 15 weeks.

--Item 6--

Show the stockpile lot and/or sub lot numbers on all tickets for all materials.

Steel Wrapped or Asbestos Utility Lines:

Existing steel wrapped natural gas and/or asbestos cement (AC) water lines that will no longer be in service are usually abandoned in place (AIP). However, if any of these lines have to be removed for whatever reason (in the way of other construction, to make tie-ins, etc.), comply with Item 6.

If removal of AC water lines is included in the construction contract, then notify the Engineer of proposed dates of removal of the AC water lines in accordance to Item 6. Excavate to the top of the AC water line to allow a separate contractor hired by the State to remove the AC water line. The excavation for the AC water line removal is subsidiary to the work that created the need for the removal (excavation for structures, roadway, a new line, tie-ins, etc.).

To comply with the latest provisions of Build America, Buy America Act (BABA Act) of the Bipartisan Infrastructure Law, the contractor must submit a notarized original of the TxDOT Construction Material Buy America Certification Form for all items classified as construction materials. This form is not required for materials classified as a manufactured product.

Refer to the Buy America Material Classification Sheet for clarification on material categorization.

The Buy America Material Classification Sheet is located at the below link.

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<https://www.txdot.gov/business/resources/materials/buy-america-material-classification-sheet.html> for clarification on material categorization.

--Item 7--

The project's total disturbed area is 42.7 Acres. The disturbed area in all project locations and Contractor project specific locations (PSL's), within 1/4 mile of the project limits, will further establish the authorization requirements for storm water discharges. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. Obtain any required authorization from the TCEQ for any PSL's on or off the ROW. When the total area disturbed on the project and PSL's within 1/4 mile of the project exceeds 5 acres, provide a copy of the Contractor NOI for PSL's to the Engineer (to the appropriate MS4 operator when the project is on an off-state system route).

Notify the Engineer of the disturbed acreage within one (1) mile of the project limits. Obtain authorization from the TCEQ for Contractor PSL's for construction support activities on or off ROW.

Roadway closures during the following key dates and/or special event are prohibited. See the general notes under Item 502 for these dates.

--Item 8--

Working days will be computed and charged in accordance with Article 8.3.1.4.Standard-Day work week.

A Special Provision to Item 8 for a delayed authorized date to begin work has been included in the contract. The reason for including the Special Provision is for material processing or contractor mobilization.

Create and maintain a Critical Path Method (CPM) schedule.

The CPM schedule shall be created and maintained using software fully compatible with Primavera Project Planner version P6 Professional R15.2 .

Provide a Project Schedule Summary Report.

Incentive using road-user cost or contract administration liquidated damage values and disincentive using road-user cost will be paid in accordance with special provision 008---006.

The road-user cost liquidated damages shall be **\$3,152** per day.

Notes for Milestones

Substantial Completion of Work is defined in Special Provision to Item 8.

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Milestone 1

See the traffic control plans (TCP) for a detailed description of the work included in Milestone 1.

The daily road-user cost for incentive and disincentive for Milestone 1 will be \$3,152 per day.

The contractor will have 73 working days for Substantial Completion of Work for Milestone 1.

Working daytime charges for Milestone 1 will be computed and charged in accordance with Article 8.3.1.1:Five-Day.

The time charges for the purpose of computing incentive and disincentive for Milestone 1 will begin when traffic is moved to the lane arrangement shown in the TCP for Milestone 1.

The time charges for the purpose of computing incentive and disincentive for Milestone 1 will end with Substantial Completion of Work for Milestone 1.

The time charges will begin when the LPCTB is installed and will stop when the LPCTB is removed. The work will consist of constructing Retaining Walls No.12A and 12B, installing storm sewer Network L, and constructing FM 2252 Southbound Lanes from Sta.230+00 to Sta.251+00.

The maximum number of working days for computing the incentive credit for Milestone 1 will be 15 days. The maximum credit allowable for early completion of Milestone 1 is **\$47,280.**

Failure of Substantial Completion of Work for Milestone 1 within the established number of working days shown above will result in the assessment of disincentives using the daily road-user costs shown above for each working day more than those allowed for Milestone 1.

Milestone 2

See the traffic control plans (TCP) for a detailed description of the work included in Milestone 2.

The daily road-user cost for incentive and disincentive for Milestone 2 will be **\$3,152** per day.

The contractor will have 31 working days for Substantial Completion of Work for Milestone 2.

Working daytime charges for Milestone 2 will be computed and charged in accordance with Article 8.3.1. 1: Five-Day.

The time charges for the purpose of computing incentive and disincentive for Milestone 2 will begin when traffic is moved to the lane arrangement shown in the TCP for Milestone 2.

The time charges for the purpose of computing incentive and disincentive for Milestone 2 will end with Substantial Completion of Work for Milestone 2.

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The time charges will begin when the LPCTB is installed and will stop when the LPCTB is removed. The work will consist of constructing Northbound Lanes on FM 2252 from Sta.230+00 to Sta.251+00 and constructing the Shared Use Path.

The maximum number of working days for computing the incentive credit for Milestone 2 will be 15 days. The maximum credit allowable for early completion of Milestone 2 is **\$47,280**.

Failure of Substantial Completion of Work for Milestone 2 within the established number of working days shown above will result in the assessment of disincentives using the daily road-user costs shown above for each working day more than those allowed for Milestone 2.

--Item 9--

When approved, provide uniformed, off-duty law enforcement officers with marked vehicles during work that requires a lane closure. The officer in marked vehicles shall be located as approved to monitor or direct traffic during the closure. The method used to direct traffic at signalized intersections shall be as approved. Additional officers and vehicles may be provided when approved or directed.

Complete the daily tracking form provided by the department and submit invoices that agree with the tracking form for payment at the end of each month approved services were provided.

Show proof of certification by the Texas Commission on Law Enforcement Standards.

All law enforcement personnel used in Work Zone Traffic Control shall be trained for performing duties in work zones and are required to take "Safe and Effective Use of Law Enforcement Personnel in Work Zones" (Course #133119) which can be found online at the following site: www.nhi.fhwa.dot.gov

Certificates of completion should be available to all who finish the course. These should be kept by the officers to substantiate completion when reporting to the work site.

Minimums, scheduling fees, etc. will not be paid; TxDOT will consider paying cancellation fees on a case-by-case basis.

--Item 100--

Trim and remove brush and trees within the stations noted in the plans and as needed for construction operations. Unless shown otherwise in the plans or a designated non-mow area, perform trimming or removal for areas to the ROW limits. Trim or remove to provide minimum of 5 ft. of horizontal clearance and 7 ft. of vertical clearance for the following: sidewalks, paths, guard fence, rails, signs, object markers, and structures. Trim to provide a minimum of 12 ft. vertical clearance under all trees.

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Obtain approval for proposed method of tree and brush trimming and removal. Vertical flailing equipment is not allowed. Treat damaged or cut branches, roots and/or stumps of all oak trees with a commercial tree wound dressing. Disinfect all pruning tools with a solution of 70% alcohol before moving from one tree to another. Unless otherwise approved remove all resulting vegetative debris from the ROW within 24 hours. The Engineer can stop all construction operations if the dressing, cut and removal requirements are not followed.

Removal and disposal of existing abandoned utilities that were unable to be identified before letting required to support this project's construction shall be performed under the overall Preparing Right of Way. If you are uncertain whether the utility is active, contact the District Utility Section.

--Item 164--

If performing a permanent seeding in an area with established temporary grass cover and mowing is performed instead of tilling, seed and fertilizer may be distributed simultaneously during "Broadcast Seeding" operations, provided each component is applied at the specified rate.

--Item 166--

Use a fertilizer with an analysis of 13-13-13 (50% of the total N must be sulfur coated urea) to apply 60 lbs of actual N per acre. This requires 460 lbs of 13-13-13 per acre or .095 lbs per SY of area.

--Item 168--

Apply vegetative watering as needed to supplement natural rainfall during the vegetation establishment period. Plan quantity of irrigation water is based on the application of a total of 1.3 gal of water each week for each sq. yd. of area that is sodded or seeded. Establishment time is estimated to be 12 weeks for both sod and permanent seed mixes. Temporary seeding will require less time for establishment. Provide a schedule and coordinate watering cycles and rates per cycle with the Engineer. Obtain approval if the quantity of water to be applied is expected to exceed the plan quantity. Adjust the amount of water applied with each cycle and the number of cycles each wk. according to actual site conditions. Drought or other conditions, as determined by the Engineer, may require the application of supplemental irrigation during hours other than normal working hours.

--Item 247--

There is no minimum PI requirement for this project.

--Item 275--

The Engineer will designate a target cement content and optimum moisture content necessary to produce a stabilized mixture that meets the strength requirements and moisture susceptibility requirements shown in Table 1. The Contractor shall furnish the Engineer with representative samples of the materials to be used in production of the cement treated base.

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Table 1
Requirements for Cement Treatment

Description	Minimum	Maximum
Cement Content (by dry weight of base)	2%	5%
	Procedure	Minimum
7-Day Unconfined Compressive Strength	Tex-120-E, Part I	150 psi
Retained Strength after Moisture Conditioning	Tex-120-E, Part I (Submerged in water for 24 hrs. after seven days of curing)	80% of 7—Day Unconfined Compressive Strength

Microcracking will be required in accordance with Item 275.4.7.

--Item 302--

Previously tested aggregates found to contain excessive quantities of dust (more than 0.5 percent passing the No. 40 sieve) during precoating, stockpiling or hauling operations, may be rejected. Use Test Method Tex-200-F, Part I for testing.

--Item 316--

Asphalt season will be year-round but meet temperature limitations specified in the standard specifications for Item 316.

Ensure that the asphalt for precoating the aggregate and the asphalt used for the surface treatment will not result in a reaction that may adversely affect the bonding of the aggregate and asphalt during the surface treatment operation.

Do not add bag house fines in the production of precoated material.

Clean all concrete curbs, islands, medians, etc. that get coated with asphalt.

--Item 320--

Construct all longitudinal ACP joints adjacent to a travel lane with a joint maker device that will create a 3:1 to 6:1 taper. For placement of 2 inches or more, the device shall provide a maximum ½ inch vertical edge. Taper outside edges (next to the grass) or backfill (shoulder-up) the same day.

Provide a material transfer device capable of providing a continuous flow of material to the paver. The material transfer device will consist of a windrow elevator or better.

--Item 354--

Retain planed material.

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Take precaution to avoid damage to existing bridge decks and armor joints. Repair any damage to the bridge decks and/or armor joints as approved. This work will not be paid directly but will be performed at the Contractor's expense.

--Item 401--

A shrinkage compensator is not required for when used for backfilling pipes.

--Item 420--

Mass concrete will be measured in place.

Pier and Bent Concrete will be paid for as "Plans Quantity".

--Item 421--

Use an automated ticket that contains the same information as shown in the standard specification. Submit the ticket for approval prior to use. The concrete producer will contact the District Laboratory or the Engineer's Office (outside the San Antonio area) to inform TxDOT of scheduled structural concrete batching. The Engineer may suspend concrete operations if ticket information is incomplete/incorrect.

Entrained air is allowed for Class P and Class HES concrete only. Air content testing is waived for all classes of concrete.

Poly-fiber reinforced concrete may be used as an option, with the approval by the Engineer, for riprap, sidewalk, curb/gutter, and mow strip. Use a TxDOT approved manufacturer or producer for the poly-fiber. The poly-fibers shall be combined with the concrete in proportions as recommended by the manufacturer. A concrete mix design must be approved by the Engineer.

--Item 422--

For construction of approach slabs, longitudinal joints shall be placed on lane lines. Joints may be either a saw-cut crack control joint or a construction joint. Saw cut joints shall terminate 1'-0" before reaching the edge of the slab, must be saw cut as soon as possible after placement of concrete, and will be cut within 12 hours of concrete placement. Once sawing begins, it should be a continuous operation and should only be stopped if raveling occurs. Saw cut will be to a depth of 1.5" and filled with approved joint sealant.

--Item 423--

The backfill material for precast retaining walls shall be approved before placement. Build stockpile(s) in lifts not to exceed 2 feet and a minimum working face of not less than 10 feet, but not more than 20 feet.

Use the approved Mechanically Stabilized Earth (MSE) wall systems listed at:

<http://www.txdot.gov/business/resources/approved-systems/mse-wall.html>

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TxDOT does not allow the use of experimental systems on projects with over 50,000 square feet walls over 25 ft. tall, or walls supporting or immediately adjacent to interstate highways.

When proprietary wall systems are used, a qualified representative of the retaining wall manufacturer must be available upon request during wall construction. As requested, or required the manufacturer's representative must be on site to assist with the initial stages of wall construction, provide training to the Contractor wall crew and ensure proper interpretation of MSE wall shop drawings and details. Specific attention must be given to nonstandard wall installation details. The Contractor's wall crew foreman must be on site for the duration of wall construction. Any change to the wall crew foreman may require additional training by the wall supplier. The Contractor will ensure that the retaining walls are installed per the details presented in the construction drawings and as per the proprietary wall system requirements. The Engineer reserves the right to suspend wall construction activities due to any construction issue encountered.

Type DS material will be required on MSE walls in the area of the reinforcement mats.

--Item 427--

Provide Rub Finish to Surface Area I.

Provide concrete paint finish and form liner finishes to Surface Area IV (areas designated on the plans). Apply the base color shown in the plans to all surfaces unless otherwise noted. Apply the accent color shown in the plans on only the areas designated on the plans.

--Item 462--

The following structures shall be pre-cast:

Sta 130+06 Crossing A-1

Sta 07+79 Crossing A-2

Sta 167+14 Crossing B

Sta 188+36 Crossing C

Sta 207+83 Crossing D

Sta 216+14 Crossing E

Sta 236+85 Crossing F

--Item 465--

Concrete Class B invert shaping is required at all inlets, manholes and junction boxes to insure positive flow. The material and work performed for the placement of the inverts shall be considered subsidiary to this item.

--Item 500--

"Materials on Hand" payments will not be considered in determining percentages for mobilization payments.

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--Item 502--

General

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have an employee available to respond on the project for emergencies and for taking corrective measures within 2 hours or within a reasonable time frame as specified by the Engineer.

Treat the pavement drop-offs as shown in the TCP.

Avoid placing stockpiles, equipment, and other construction materials within the roadway's horizontal clear zone or at any location that will constitute a hazard and will endanger traffic. If a stockpile is placed within the clear zone, address in accordance with the TMUTCD.

If Nighttime work is required and work is not behind positive barrier then full Class 3 reflective gear is required to be worn by all workers, hard hat halos are required to be worn by the flaggers at flagging stations, TY III barricades are required to be spaced at 500 ft, and a mandatory night work meeting is required.

The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

Mounting and moving the mailbox as needed for the various construction phases is subsidiary to Item 502.

Access to adjoining property must be maintained at all times.

Barricades, Signs, and Traffic Control Devices

When advanced warning flashing arrow panels and/or changeable message sign is specified, have one standby unit in good condition at the job site. Standby time shall be considered subsidiary to the bid item.

After written notification, the time frame is provided on the Form 599 to provide properly maintained signs and barricades before considered in non-compliance with this item.

Temporary Rumble Strips are to be used according to WZ (RS)-22.

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Use 2 number of rumble strip arrays.

Moving an existing sign to a temporary location is subsidiary to Item 502. Installations with permanent supports at permanent locations will be paid for under the applicable bid item(s).

Cover permanent signs if not used. This is subsidiary to Item 502.

Lane and Ramp Closures and Detours

Notify the Engineer in writing 10 business days in advance of any temporary or permanent lane, ramp, connector, etc. closures/detours, restrictions to lane widths, alterations to vertical clearances, or modifications to radii. Any other modifications to the roadway that may adversely affect the mobility of oversized/overweight trucks also require 10 business days advance written notice to the Engineer. At least one lane must always remain open.

For closures not listed in the TCP; the lane closures are limited to between the hours of 9pm and 5am, and at least one lane must remain open at all times.

At no time shall two consecutive intersecting roadways be closed at one time during construction.

At no time shall two consecutive ramps be closed at one time during construction or overlay operations.

Unless otherwise noted in the plans and/or as directed by the Engineer, daily lane closures shall be limited according to the following restrictions:

Nighttime:
(Not behind Barricades) will be from 9PM to 5AM and will be submitted for approval to the Construction Engineer.

(With uniformed off duty law enforcement officers)

Weekend closures when approved by the Engineer: From Friday 9PM to Monday 5AM

No lane closures will be permitted for the following dates and/or special events:

Between December 15 and January 1

Wednesday before Thanksgiving thru the Sunday after Thanksgiving

Saturday and Sunday before Memorial Day and Labor Day

Saturday or Sunday when July 4 falls on a Friday or Monday

Saturday and Sunday of Easter Weekend

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Traffic Signals

There are traffic signals at the intersection of FM 2252 and Evans Rd, and FM 2252 and FM 3009. Always keep the signals in operation except when necessary for specific installation operations, including any modifications to existing signal heads to always maintain clear visibility. Adjustment of any signal head will be subsidiary to Item 502. When it is necessary for a signal to be turned off, or when left-turn lanes are closed, hire off duty police officers to control the traffic until the signals are back in satisfactory condition.

Moving or adjustment of traffic signal heads, VIVDS, and radar detection for the purpose of alignment with the shifting of lanes in conjunction with the traffic control plan will be subsidiary to various bid items.

Coordinate with TxDOT when left-turn lanes are closed and/or for signal timing revisions as necessary.

Hauling

The use of rubber-tired equipment will be required for moving dirt or other materials along or across pavement surfaces. Where the contractor desires to move any equipment not licensed for operation on public highways, on or across pavement, they shall protect the pavement from damage as directed/approved by the Engineer.

Throughout construction operations, the Contractor will be required to conduct their hauling operations in a manner such that vehicles will not haul over previously recompacted subgrade or compacted base material, except in short sections for dumping manipulations.

The Contractor shall keep the roadway clean and free of dirt or other materials during hauling operations. If the Contractor does not maintain a clean roadway, they shall cease all construction operations, when directed by the Engineer, to clean the roadway to the satisfaction of the Engineer.

--Item 504--

For field office Type E Structure. Provide at least 600 sq. ft. of gross floor area in rooms 8 ft. high. Partition the floor area into at least 3 interconnected rooms with doors, 2 exterior doors, and at least 2 windows in each room. Provide at least 2 restrooms. Provide at least 4 parking spaces for pull-through parking.

Enclose the field office, laboratory and the parking area as shown in 504.2.1.1 and provide security lighting.

Provide high speed internet service with WIFI signal and a laser jet printer/scanner/copier as directed.

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Provide essential supplies, including toilet paper, hand soap, paper towels, printing paper, potable water, and printer ink.

Provide a Type E Structure for a Concrete Field Laboratory with at least 200 sq. ft. of gross floor area in a room 8 ft. high, furnished with an exterior door and at least 2 windows. Provide required equipment for testing (moist cabinet, moist room, or water storage tank in accordance with Tex-498-A, Table 32 and Concrete Compression Testing Machine in accordance with Tex-498-A, Table 18). Provide associated calibration documents, as outlined in Tex-498-A, for all contractor provided testing equipment.

All labs and offices will include cleaning at least once a week. The cleaning will include sweeping and mopping of floors, cleaning the toilet and lavatory, and emptying wastebaskets. Space heaters are not considered adequate heating.

--Item 506--

An Inspector will perform a regularly scheduled SWP3 inspection every 7 calendar days.

Failure to address items noted on the SW3P inspection report within two report cycles may result in the Department stopping all construction operations, exclusive of time charges, or withholding that month's estimate until the SW3P deficiencies are corrected unless the Engineer determines that the area is too wet to correct SW3P deficiencies.

Failure to correctly maintain daily monitoring reports and submitting to TxDOT on a daily/weekly basis may result in the monthly estimate being withheld.

--Item 510--

The length of the one-way traffic control section is limited to ½ miles on FM 2252. The length of the one-way traffic control section is limited to 1700 feet on Bracken Drive.

For Pilot Car Method, additional flaggers other than the 2 required on each approach, when directed by the Engineer, will be measured by the Flagger Control Method. This may involve stationing additional flaggers at all intersections, public driveways, and commercial driveways as determined by the Engineer.

--Item 512--

Only Single Slope shape CTB may be furnished on the inside shoulder/inside median of the Interstate or Freeway Main Lanes.

More than one shape type of CTB may be furnished on a project, although no mixing of CTB shape types will be permitted along a continuous segment of CTB.

CTB reflectors will not be paid for directly but will be considered subsidiary to the barrier.

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--Item 529--

Curb inlets and extensions are based on an exposed curb height of 7 inches. The roadway curb height and shape will be transitioned to the inlet's curb with a 40: 1 taper.

--Item 531--

The curb ramp locations shown in the plans have considered the geometric features of the intersection, traffic signals, and the pavement markings. If anything changes during construction, the location of curb ramps must be adjusted to ensure they meet TAS requirements.

--Item 540--

Guard fence posts placed in proposed and/or existing areas of riprap, sidewalks or other concrete shall have an 18 inch +/- (square or round) leave-out in the concrete as shown in the state standard for MBGF Mow Strip. After the posts are installed, fill the leave-outs with a Grout mixture as shown in the state standard for MBGF Mow Strip.

When connecting a Thrie-Beam to a concrete wingwall, bridge rail, CTB, etc., drill the holes for bolt placement using rotary or core type equipment. Use a core type drill when reinforcing steel is encountered. Do not use percussion or impact drilling. Repair damage to the concrete and spalls exceeding ½" from the edge of the hole.

--Item 542--

Salvage all undamaged/acceptable radius guardrail and deliver to the TxDOT maintenance section yard.

--Item 545--

See the Crash Cushion Summary Sheet.

--Item 585--

Use Surface Test Type B, pay adjustment schedule 1 to evaluate ride quality of travel lanes.

--Item 618--

It might be necessary to cut concrete for placement of conduit. Saw cut existing concrete, remove the concrete from the steel reinforcement (bars or fabric) and bend the steel to install the conduit. After the conduit has been placed, bend the steel back to its original position and back-fill the trench with an approved concrete. This work is subsidiary to this Item.

--Item 628--

Make all arrangements for electrical service, and compliance with local standards and practices for proper installations.

--Item 644--

The wedge anchor system shown on State Standard Sheet SMD (TWT) is not allowed.

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Triangular Slipbase Systems with set screws are not allowed.

--Item 666--

Use TY II markings (vs. an acrylic or epoxy) on asphalt surfaces as the sealer for the TY I markings, unless otherwise approved by the Engineer.

--Item 672--

Place all adhesive material directly from the heated dispenser to the pavement. Do not use portable or non-heated containers. Use adhesive of sufficient thickness so that when the marker is pressed into the adhesive, 1/8" or more adhesive will remain under 100% of the marker. The adhesive should extend not less than 1/2" but not more than 1 1/2" beyond the perimeter of the marker.

--Item 677--

Obtain approval before using the mechanical method for the elimination of existing thermoplastic pavement markings.

--Item 680--

Furnish and install all required materials and equipment necessary for the complete and operating traffic signal installation at the following intersections:
FM 2252 & Marbach Lane/Fifth Street
FM 2252 & Bat Cave Road
FM 2252 & FM 3009

The locations shown on the plans for signal pole foundations, controller foundations, conduit and other items may be adjusted to better fit field conditions as approved.

Furnish and install a new Henke Enterprises or Mobotrex eight-phase NEMA TS2 Type 2 controller and cabinet, meeting the requirements of Departmental Materials Specifications DMS-11170. Provide detector panel toggle switches that additionally permit the user to disconnect the detector. For both ground and pole-mount cabinets, provide cabinet configuration with 16 position load bay.

Deliver TS type 2 controller cabinet and assembly to the TxDOT San Antonio district signal shop for programming and testing two weeks in advance prior to contractor installing equipment in the field. Coordinate drop off and pick up with Mark Perez (210) 218-7430.

Connect all field wiring to the controller assembly into the polyphaser. The Signal Shop representative will assist in determining how the detection cables are to be connected, and will also program the controller for operation, hook up the malfunction management unit (MMU) or conflict monitor, detector units, and other equipment, and turn on the controller. Have a qualified technician on the project site to place the traffic signals in operation.

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Once final punch list is complete, contractor is allowed to begin flashing signal operations. Signal shall flash for a minimum of 7 days prior to full operation, unless otherwise approved by the Engineer.

Use LED lamps from the prequalified material producer lists as shown on the Texas Department of Transportation (TxDOT) – Construction Division’s (CST) material producer list. Category is “Roadway Illumination and Electrical Supplies.” under item 610. No substitutions will be allowed for materials found on this list.

Demonstrate that the field wiring is properly installed. Install the electrical equipment in a neat and workmanlike manner.

Use the following wiring sequence when connecting signal sections to the cabinet:

Conductor No.	Base Color	Tracer Color	Signal Face
1	Black		Yellow Ball
2	White		Neutral
3	Red		Red Ball
4	Green		Green Ball
5	Orange		Yellow Arrow
6	Blue		Green Arrow
7	White	Black	Spare

All existing signal equipment with the exception of the signal controller and related equipment become the property of the Contractor. Deliver the controller and related equipment to the Signal shop, located at 4615 NW Loop 410 (corner of IH 410 and Callaghan Road) in San Antonio, Texas or to the Area Office as directed.

Use qualified personnel to respond to and diagnose all trouble calls during the thirty-day test period. Repair any malfunction to Contractor-supplied signal equipment. Provide to the Engineer a local telephone number, not subject to frequent changes and available on a 24-hour basis, for reporting trouble calls. Response time to reported calls must be less than 2 hours. Make appropriate repairs within 24 hours. Place a logbook in the controller cabinet and keep a record of each trouble call reported. Notify the Engineer of each trouble call. Do not clear the error log in the conflict monitor or MMU during the thirty-day test period without approval.

This project includes the installation of at least one cellular modem at the location(s) specified in the plans. Cellular modem(s) and power supply(s) will be furnished by the department. Provide

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all materials not supplied by the department necessary for the cellular modem installation. All materials provided by the contractor must be new unless otherwise shown on the plans. Equipment provided by the department shall be stored by the department for pick up at the TxDOT San Antonio TransGuide Office, 3500 NW Loop 410 San Antonio, TX 78229. Prevent damage to all cellular modem components supplied by the department. Replace any component that is damaged or lost during transportation or installation at the contractor's expense. Verify operation of the cellular modem(s) together with operation of its links; demonstrate that data can be transmitted at a satisfactory rate from the field location to the central location. Demonstrate that the cellular modem(s) data packets are being received at the central site via a networked computer. Transportation, installation and incidentals for installation of the cellular modem(s) shall be considered subsidiary to item 680.

Provide a submittal compliance matrix with all traffic signal submittals.

Field verify the depths of the drill shafts to meet the minimum clearances specified in the plans before ordering materials.

Ensure that all TMS (Traffic Management System) equipment furnished and installed is completely compatible with the existing hardware and software located within the TransGuide operations center (i.e. TransGuide central software). The contractor shall contact the traffic management engineer for details on the system network architecture.

Contractor shall be responsible for integrating and testing all new TMS equipment and any existing TMS equipment that is relocated into the existing network management system, subsidiary to the various bid items.

--Item 682--

Pedestrian signals may be by a different manufacturer than the vehicle signal heads.

Cover all signal faces until placed in operation. This work is subsidiary to various bid items.

All mounting attachments shall be constructed of steel pipe and mounted as shown on the plans.

--Item 684--

Provide an extra 10' for each cable terminating in the controller cabinet. All cables must be continuous without splices from terminal point to terminal point. All proposed signal cable must be #12 AWG stranded copper.

--Item 686 & 687--

Provide all signal poles from the same manufacturer. Pedestrian poles may be from a different manufacturer.

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--Item 688--

The button placement must be coordinated with the concrete pad to access the button according to ADA and TAS. If any mounting modifications are needed (extensions, brackets, etc.) to meet ADA and TAS requirements the adjustment will be subsidiary to Item 688. The concrete pad (if required) will be paid separately.

The pedestrian push button must be wired with a 2/C#14 loop detector cable in lieu of a #12 A.W.G. XHHW wire.

Furnish and install new Polara Enterprises accessible pedestrian signals (APS) push buttons or approved equivalent.

--Item 730--

Mow full-width and hand trim the right of way, including newly seeded or sodded areas, when vegetation reaches a height of 16" or when directed. Removal of brush sprouts growing within guardrail, concrete barriers or at other locations where mowing or hand trimming is done within the limits of construction is required and subsidiary to this item. Mowing may be required more often in newly sodded or seeded areas than in other parts of the project because of the supplemental irrigation these areas receive and the resulting weed growth. Coordinate mowing to avoid rutting or compaction of the soil when mowing where supplemental irrigation is being used. Use mowing equipment that will not adversely affect soil retention blankets or mulches that have been applied. Work performed under this item does not replace the mowing required when placing permanent seeding in an area that has established temporary seeding as described in Article 164.3, Construction.

--Item 734--

Perform Litter Removal once a month or as directed by the Engineer.

--Item 3076, 3077--

1. Table 10 in Item 3076 and Table 11 in Item 3077, Hamburg Wheel Test Requirements tested in accordance with Tex-242-F are changed for PG 64-22 or lower and PG 70-22. Minimum number of passes at 12.55 mm Rut Depth, Tested at 50 degrees C will be 5,000 and 10,000 respectively.
2. Submit a copy of the Tex 233-F production charts on a weekly basis. At the end of the ACP work, provide all originals.
3. Crushing of aggregate for hot mix and immediate use for production of the mix is not allowed. Stockpile the aggregate until enough material is available for five days of production unless prior approval is provided
4. Hold a pre-paving meeting one month prior to the placement of the hot mix. The date and time of pre-paving meeting should be coordinated with the Engineer prior to scheduling.

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- 5. Do not use diesel or solvents as asphalt release agents in production, transportation, or construction. A list of approved asphalt release agents is available from the District Laboratory.
- 6. No more than one hot mix lot will be open for any specific type of hot mix, unless authorized. After a lot is open and the Contractor gets approval to change plants, the previous lot will be closed, and a new lot will be opened. The numbering for the lots produced at the new plant will start with No. 1. If allowed to switch back to the original or previous plant, the next lot from that plant will resume numbering sequentially from the last lot produced by that plant.

--Item 3085 --

The minimum application rates are listed in Table UC/BC. The Engineer may adjust the application rates taking into consideration the existing pavement surface conditions.

Table UC/BC

Material	Minimum Application Rate (gal. per square yard)
TRAIL – Hot Asphalt	0.15
Spray Applied Underseal Membrane	0.20
Seal Coat – Emulsion (CHFRS-2P, CRS-2P)	0.25
Seal Coat – Asphalt (AC-15P, AC-20-5TR, AC-20XP, AC10-2TR)	0.23
Aggregate for Seal Coat Options TY PB GR 4(AC) or TY B GR 4(Emulsion)	1 CY:120 SY

--Item 4171--

Install bridge identification numbers shown below for each of the following listed bridges in accordance with the special specification and San Antonio District Standard. Install the bridge identification number on two locations as shown on the plans, or as directed. For bridges in a two-way condition, install the bridge identification number on each outside beam on the upstream side of traffic. For bridges in a one-way condition, install the bridge identification number on each side, opposite corners on each outside beam. For culverts less than 5 ft. in height, install the bridge identification number on the headwall on upstream and downstream location. For culverts greater than 5 ft. in height, install the bridge identification number inside the first barrel on the upstream side of traffic and inside the last barrel on the opposite corner in the direction of traffic.

--Item 6185--

4 shadow vehicles with TMA will be required for this project. The TMA's will be measured and paid for by the DAY for each TMA/TA set up and operational on the worksite. The contractor will be responsible for determining if one or more of these operations will be ongoing at the same time to determine the total number of TMA's needed for the project. See TMA and TA Summary sheet in the plans.

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--Item 6292--

Radar presence detection device must utilize true-presence detection. Systems using locking algorithms to attempt presence detection will not be accepted. In addition, radar systems will not be allowed to use extensions/delays or place the controller on locking detection to aid in presence detection.

Radar presence detection device must be able to detect up to 10 lanes with a minimum offset of 6' and have at least 16 zones and channels per unit.

Radar presence detection device must be mounted on the same side of the intersection as the lanes it is set to detect.

Final placement of radar devices must be approved by the engineer.

Furnish and install new Wavetronix SmartSensor Matrix, or approved equivalent, for radar presence detectors and Wavetronix SmartSensor Advance, or approved equivalent, for radar advanced detection devices.



Estimate & Quantity Sheet

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DISTRICT San Antonio

COUNTY Bexar, Comal

HIGHWAY FM 2252

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	100-6002	PREPARING ROW	STA			195.400		195.400	
	104-6009	REMOVING CONC (RIPRAP)	SY			2,125.000		2,125.000	
	104-6011	REMOVING CONC (MEDIANS)	SY			524.000		524.000	
	104-6015	REMOVING CONC (SIDEWALKS)	SY			720.000		720.000	
	104-6017	REMOVING CONC (DRIVEWAYS)	SY			2,065.000		2,065.000	
	104-6021	REMOVING CONC (CURB)	LF			2,708.000		2,708.000	
	104-6028	REMOVING CONC (MISC)	SY			30.000		30.000	
	104-6032	REMOVING CONC (WHEELCHAIR RAMP)	SY			44.000		44.000	
	104-6037	REMOVE CONC (RAIL)	LF			414.000		414.000	
	104-6040	REMOVING CONC (PAVERS)	SY			415.000		415.000	
	110-6001	EXCAVATION (ROADWAY)	CY			36,433.000		36,433.000	
	110-6003	EXCAVATION (SPECIAL)	CY			644.000		644.000	
	132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY			67,282.000		67,282.000	
	132-6006	EMBANKMENT (FINAL)(DENS CONT)(TY C)	CY			453.000		453.000	
	161-6017	COMPOST MANUF TOPSOIL (4")	SY			69,801.000		69,801.000	
	164-6007	BROADCAST SEED (PERM) (URBAN) (CLAY)	SY			69,801.000		69,801.000	
	164-6071	BROADCAST SEED (TEMP)(WARM OR COOL)	SY			69,801.000		69,801.000	
	168-6001	VEGETATIVE WATERING	MG			1,117.000		1,117.000	
	169-6003	SOIL RETENTION BLANKETS (CL 1) (TY C)	SY			69,801.000		69,801.000	
	247-6475	FL BS (CIP)(TY D GR 1-2, OR 5)FINAL POS	CY			14,070.000		14,070.000	
	260-6016	LIME (HYD, COM, OR QK(SLURRY))	TON			135.000		135.000	
	260-6079	LIME TRT (SUBGRADE)(6")	SY			7,438.000		7,438.000	
	275-6001	CEMENT	TON			30.000		30.000	
	275-6019	CEMENT TREAT (SUBGRADE)(6")	SY			4,647.000		4,647.000	
	310-6027	PRIME COAT(MC-30 OR AE-P)	GAL			15,670.000		15,670.000	
	316-6414	AGGR (TY-B GR-5)	CY			559.000		559.000	
	354-6045	PLANE ASPH CONC PAV (2")	SY	994.000		84,559.000		85,553.000	
	400-6005	CEM STABIL BKFL	CY			1,877.500		1,877.500	
	400-6006	CUT & RESTORING PAV	SY			2,385.000		2,385.000	
	401-6001	FLOWABLE BACKFILL	CY			424.000		424.000	
	402-6001	TRENCH EXCAVATION PROTECTION	LF			3,716.000		3,716.000	
	403-6001	TEMPORARY SPL SHORING	SF			10,196.000		10,196.000	
	405-6003	FOUNDATON LOADTEST(D4945)(DRILLD SHAFT)	EA			2.000		2.000	
	416-6002	DRILL SHAFT (24 IN)	LF			18.000		18.000	
	416-6005	DRILL SHAFT (42 IN)	LF			4,377.000		4,377.000	
	416-6006	DRILL SHAFT (48 IN)	LF			1,596.000		1,596.000	
	416-6031	DRILL SHAFT (TRF SIG POLE) (30 IN)	LF			33.000		33.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio
HIGHWAY FM 2252

COUNTY Bexar, Comal

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	416-6032	DRILL SHAFT (TRF SIG POLE) (36 IN)	LF			104.000		104.000	
	416-6034	DRILL SHAFT (TRF SIG POLE) (48 IN)	LF			110.000		110.000	
	420-6002	CL A CONC (MISC)	CY			4.000		4.000	
	420-6013	CL C CONC (ABUT)	CY			101.500		101.500	
	420-6029	CL C CONC (CAP)	CY			332.000		332.000	
	420-6037	CL C CONC (COLUMN)	CY			417.300		417.300	
	420-6074	CL C CONC (MISC)	CY			3.000		3.000	
	422-6001	REINF CONC SLAB	SF			70,606.000		70,606.000	
	422-6011	BRIDGE MEDIAN	SF			9,853.000		9,853.000	
	422-6013	BRIDGE SIDEWALK	SF			13,137.000		13,137.000	
	422-6015	APPROACH SLAB	CY			185.000		185.000	
	423-6001	RETAINING WALL (MSE)	SF			44,909.000		44,909.000	
	423-6003	RETAINING WALL (TEMP WALL)	SF			11,943.000		11,943.000	
	423-6007	RETAINING WALL (DRILL SHAFT) (FACIA)	SF			5,424.000		5,424.000	
	425-6039	PRESTR CONC GIRDER (TX54)	LF			9,142.760		9,142.760	
	425-6040	PRESTR CONC GIRDER (TX62)	LF			1,682.140		1,682.140	
	432-6001	RIPRAP (CONC)(4 IN)	CY			1,248.200		1,248.200	
	432-6002	RIPRAP (CONC)(5 IN)	CY			471.000		471.000	
	432-6031	RIPRAP (STONE PROTECTION)(12 IN)	CY			2,155.000		2,155.000	
	432-6045	RIPRAP (MOW STRIP)(4 IN)	CY			82.000		82.000	
	442-6007	STR STEEL (MISC NON - BRIDGE)	LB			702.000		702.000	
	450-6004	RAIL (TY T221)	LF			1,642.500		1,642.500	
	450-6023	RAIL (TY SSTR)	LF			1,079.000		1,079.000	
	450-6030	RAIL (TY C221)	LF			5,743.900		5,743.900	
	450-6052	RAIL (HANDRAIL)(TY F)	LF			2,358.000		2,358.000	
	450-6119	RAIL (CLF-RO)	LF			250.000		250.000	
	454-6020	SEALED EXPANSION JOINT (4 IN) (SEJ - B)	LF			302.000		302.000	
	459-6007	GABION MATTRESSES (GALV)(12 IN)	SY			1,815.000		1,815.000	
	460-6002	CMP (GAL STL 18 IN)	LF			37.000		37.000	
	460-6009	CMP AR (GAL STL DES 2)	LF			1,435.000		1,435.000	
	460-6010	CMP AR (GAL STL DES 3)	LF			179.000		179.000	
	460-6024	CMP AR (GAL STL DES 7)	LF			100.000		100.000	
	462-6001	CONC BOX CULV (3 FT X 2 FT)	LF			62.000		62.000	
	462-6003	CONC BOX CULV (4 FT X 2 FT)	LF			233.000		233.000	
	462-6004	CONC BOX CULV (4 FT X 3 FT)	LF			104.000		104.000	
	462-6006	CONC BOX CULV (5 FT X 2 FT)	LF			3,213.000		3,213.000	
	462-6009	CONC BOX CULV (5 FT X 5 FT)	LF			363.000		363.000	

2 Revised: 04/19/2023



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio
HIGHWAY FM 2252

COUNTY Bexar, Comal

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	462-6010	CONC BOX CULV (6 FT X 3 FT)	LF			1,856.000		1,856.000	
	462-6014	CONC BOX CULV (7 FT X 3 FT)	LF			539.000		539.000	
	462-6029	CONC BOX CULV (10 FT X 5 FT)	LF			625.000		625.000	
	462-6074	CONC BOX CULV (10 FT X 6 FT)(EXTEND)	LF			45.000		45.000	
	462-6099	CONC BOX CULV (6 FT X 2 FT)	LF			690.000		690.000	
	464-6003	RC PIPE (CL III)(18 IN)	LF			156.000		156.000	
	464-6005	RC PIPE (CL III)(24 IN)	LF			5,444.000		5,444.000	
	464-6007	RC PIPE (CL III)(30 IN)	LF			503.000		503.000	
	465-6006	JCTBOX(COMPL)(PJB)(4FTX4FT)	EA			5.000		5.000	
	465-6012	JCTBOX(COMPL)(PJB)(8FTX8FT)	EA			1.000		1.000	
	465-6017	INLET (COMPL)(PCO)(4FT)(NONE)	EA			3.000		3.000	
	465-6020	INLET (COMPL)(PCO)(4FT)(BOTH)	EA			1.000		1.000	
	465-6025	INLET (COMPL)(PCO)(6FT)(NONE)	EA			7.000		7.000	
	465-6027	INLET (COMPL)(PCO)(6FT)(RIGHT)	EA			4.000		4.000	
	465-6028	INLET (COMPL)(PCO)(6FT)(BOTH)	EA			7.000		7.000	
	465-6033	INLET (COMPL)(PCU)(4FT)(NONE)	EA			2.000		2.000	
	465-6035	INLET (COMPL)(PCU)(4FT)(RIGHT)	EA			1.000		1.000	
	465-6036	INLET (COMPL)(PCU)(4FT)(BOTH)	EA			28.000		28.000	
	465-6041	INLET (COMPL)(PCU)(6FT)(NONE)	EA			2.000		2.000	
	465-6042	INLET (COMPL)(PCU)(6FT)(LEFT)	EA			4.000		4.000	
	465-6043	INLET (COMPL)(PCU)(6FT)(RIGHT)	EA			7.000		7.000	
	465-6044	INLET (COMPL)(PCU)(6FT)(BOTH)	EA			2.000		2.000	
	465-6070	INLET (COMPL)(PSL)(RC)(3FTX3FT)	EA			11.000		11.000	
	465-6160	INLET(COMPL)(PAZD)(FG)(4FTX4FT-4FTX4FT)	EA			2.000		2.000	
	465-6162	INLET(COMPL)(PAZD)(FG)(5FTX5FT-4FTX4FT)	EA			5.000		5.000	
	465-6233	INLET (COMP) (TY SIDEWALK BRIDGE)	EA			74.000		74.000	
	465-6338	INLET (COMPL)(ARMOR CURB SLOT)	EA	8.000		125.000		133.000	
	465-6582	JCT BOX (COMPL)(CIP)(9FTX9FT)	EA			2.000		2.000	
	465-6592	INLET(COMP)(ARMOR CURB SLOT)(MOD)(TY A)	EA			33.000		33.000	
	465-6593	INLET(COMP)(ARMOR CURB SLOT)(MOD)(TY B)	EA			1.000		1.000	
	465-6631	JCT BOX(COMPL)(CIP)(13.5FTX13.5FT)	EA			1.000		1.000	
	465-6632	JCT BOX(COMPL)(CIP)(13.5FTX6FT)	EA			1.000		1.000	
	465-6633	JCT BOX(STAGE I)(CIP)(9FTX9FT)	EA			1.000		1.000	
	465-6634	JCT BOX(STAGE II)(CIP)(9FTX9FT)	EA			1.000		1.000	
	466-6171	WINGWALL (PW - 1) (HW=10 FT)	EA			2.000		2.000	
	466-6179	WINGWALL (PW - 1) (HW=4 FT)	EA			2.000		2.000	
	466-6181	WINGWALL (PW - 1) (HW=6 FT)	EA			2.000		2.000	

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DISTRICT	COUNTY	CCSJ	SHEET
San Antonio	Comal	1433-02-044	51B



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio
HIGHWAY FM 2252

COUNTY Bexar, Comal

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	466-6182	WINGWALL (PW - 1) (HW=7 FT)	EA			2.000		2.000	
	466-6207	WINGWALL (SW - 0) (HW=4 FT)	EA			1.000		1.000	
	466-6235	HEADWALL (CH-PW-S)(DIA = 24 IN)(MOD)	EA			1.000		1.000	
	466-6256	WINGWALL (PW-1) (HW=7 FT) (MOD)	EA			1.000		1.000	
	467-6107	SET (TY I)(S=3 FT)(HW=3FT)(4:1)(P)	EA			1.000		1.000	
	467-6110	SET (TY I)(S=3 FT)(HW= 3 FT)(6:1)(P)	EA			1.000		1.000	
	467-6172	SET (TY I)(S= 5 FT)(HW= 3 FT)(4:1) (C)	EA			2.000		2.000	
	467-6174	SET (TY I)(S= 5 FT)(HW= 3 FT)(6:1) (P)	EA			6.000		6.000	
	467-6208	SET (TY I)(S= 6 FT)(HW= 3 FT)(6:1) (P)	EA			3.000		3.000	
	467-6345	SET (TY II) (18 IN) (CMP) (4: 1) (C)	EA			2.000		2.000	
	467-6359	SET (TY II) (18 IN) (RCP) (4: 1) (P)	EA			4.000		4.000	
	467-6362	SET (TY II) (18 IN) (RCP) (6: 1) (C)	EA			1.000		1.000	
	467-6388	SET (TY II) (24 IN) (RCP) (3: 1) (C)	EA			1.000		1.000	
	467-6391	SET (TY II) (24 IN) (RCP) (4: 1) (P)	EA			2.000		2.000	
	467-6394	SET (TY II) (24 IN) (RCP) (6: 1) (C)	EA			1.000		1.000	
	467-6395	SET (TY II) (24 IN) (RCP) (6: 1) (P)	EA			1.000		1.000	
	467-6524	SET (TY II) (DES 2) (CMP) (6: 1) (C)	EA			2.000		2.000	
	467-6525	SET (TY II) (DES 2) (CMP) (6: 1) (P)	EA			64.000		64.000	
	467-6535	SET (TY II) (DES 3) (CMP) (4: 1) (P)	EA			8.000		8.000	
	467-6573	SET (TY II) (DES 7) (CMP) (6: 1) (P)	EA			2.000		2.000	
	496-6002	REMOV STR (INLET)	EA			5.000		5.000	
	496-6006	REMOV STR (HEADWALL)	EA			1.000		1.000	
	496-6041	REMOV STR (LARGE)	EA			2.000		2.000	
	496-6042	REMOV STR (SMALL)	EA			20.000		20.000	
	496-6099	REMOVE STR (RAIL)	LF			39.000		39.000	
	496-6118	REMOV STR (SDWLK BRG)	EA			8.000		8.000	
	496-6119	REMOV STR (ARMOR CURB SLOT)	EA			2.000		2.000	
	500-6001	MOBILIZATION	LS	0.002		0.998		1.000	
	502-6001	BARRICADES, SIGNS AND TRAFFIC HANDLING	MO			46.000		46.000	
	506-6002	ROCK FILTER DAMS (INSTALL) (TY 2)	LF			1,024.000		1,024.000	
	506-6011	ROCK FILTER DAMS (REMOVE)	LF			1,024.000		1,024.000	
	506-6020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY			2,496.000		2,496.000	
	506-6024	CONSTRUCTION EXITS (REMOVE)	SY			2,496.000		2,496.000	
	506-6031	FRNT END LOADER WORK (ERSN & SEDM CONT)	HR			239.000		239.000	
	506-6034	CONSTRUCTION PERIMETER FENCE	LF			1,337.000		1,337.000	
	506-6038	TEMP SEDMT CONT FENCE (INSTALL)	LF			13,282.000		13,282.000	
	506-6039	TEMP SEDMT CONT FENCE (REMOVE)	LF			13,282.000		13,282.000	

2 Revised: 04/19/2023



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio
HIGHWAY FM 2252

COUNTY Bexar, Comal

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	506-6041	BIODEG EROSN CONT LOGS (INSTL) (12")	LF			3,471.000		3,471.000	
	506-6043	BIODEG EROSN CONT LOGS (REMOVE)	LF			3,471.000		3,471.000	
	508-6001	CONSTRUCTING DETOURS	SY			15,501.000		15,501.000	
	510-6001	ONE-WAY TRAF CONT (FLAGGER CONT)	HR			72.000		72.000	
	512-6005	PORT CTB (FUR & INST)(F-SHAPE)(TY 1)	LF			2,200.000		2,200.000	
	512-6009	PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF			15,260.000		15,260.000	
	512-6010	PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF			2,540.000		2,540.000	
	512-6033	PORT CTB (MOVE)(LOW PROF)(TY 1)	LF			11,550.000		11,550.000	
	512-6034	PORT CTB (MOVE)(LOW PROF)(TY 2)	LF			1,340.000		1,340.000	
	512-6053	PORT CTB (REMOVE)(F-SHAPE)(TY 1)	LF			2,200.000		2,200.000	
	512-6057	PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF			15,260.000		15,260.000	
	512-6058	PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF			2,540.000		2,540.000	
	512-6100	PORT CTB(FUR & INSTL)(F-SHAPE)(TY T)	LF			40.000		40.000	
	512-6103	PORT CTB(REMOVE)(F-SHAPE)(TY T)	LF			40.000		40.000	
	528-6008	COLORED TEXTURED CONC (5")	SY	198.000		4,451.000		4,649.000	
	529-6001	CONC CURB (TY I)	LF	402.000		40,608.000		41,010.000	
	529-6018	CONC CURB (TY F3)	LF			195.000		195.000	
	530-6002	INTERSECTIONS (ACP)	SY			6,324.000		6,324.000	
	530-6004	DRIVEWAYS (CONC)	SY			4,949.000		4,949.000	
	530-6019	DRIVEWAYS (ACP)(TYPE 1)	SY			2,037.000		2,037.000	
	531-6001	CONC SIDEWALKS (4")	SY			6,177.000		6,177.000	
	531-6003	CONC SIDEWALKS (6")	SY			11,990.000		11,990.000	
	531-6004	CURB RAMPS (TY 1)	EA			9.000		9.000	
	531-6005	CURB RAMPS (TY 2)	EA			6.000		6.000	
	531-6010	CURB RAMPS (TY 7)	EA			1.000		1.000	
	531-6013	CURB RAMPS (TY 10)	EA			14.000		14.000	
	531-6016	CURB RAMPS (TY 21)	EA			1.000		1.000	
	531-6017	CURB RAMPS (TY 22)	EA			4.000		4.000	
	531-6056	CONC SIDEWALKS (10")	SY			1,963.000		1,963.000	
	540-6001	MTL W-BEAM GD FEN (TIM POST)	LF			106.250		106.250	
	540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA			4.000		4.000	
	540-6014	SHORT RADIUS	LF			37.500		37.500	
	540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA			1.000		1.000	
	542-6001	REMOVE METAL BEAM GUARD FENCE	LF			981.000		981.000	
	542-6002	REMOVE TERMINAL ANCHOR SECTION	EA			6.000		6.000	
	544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA			4.000		4.000	
	545-6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA			1.000		1.000	

Revised: 04/19/2023



DISTRICT	COUNTY	CCSJ	SHEET
San Antonio	Comal	1433-02-044	51D



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio

COUNTY Bexar, Comal

HIGHWAY FM 2252

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	560-6011	MAILBOX INSTALL-S (TWW-POST) TY 4	EA			12.000		12.000	
	560-6012	MAILBOX INSTALL-D (TWW-POST) TY 4	EA			2.000		2.000	
	610-6104	IN RD IL (U/P) (TY 1) (150W EQ) LED	EA			15.000		15.000	
	618-6023	CONDT (PVC) (SCH 40) (2")	LF			295.000		295.000	
	618-6046	CONDT (PVC) (SCH 80) (2")	LF			1,140.000		1,140.000	
	618-6047	CONDT (PVC) (SCH 80) (2") (BORE)	LF			1,545.000		1,545.000	
	618-6053	CONDT (PVC) (SCH 80) (3")	LF			2,010.000		2,010.000	
	618-6054	CONDT (PVC) (SCH 80) (3") (BORE)	LF			2,910.000		2,910.000	
	618-6064	CONDT (RM) (1")	LF			520.000		520.000	
	620-6003	ELEC CONDR (NO.12) BARE	LF			830.000		830.000	
	620-6004	ELEC CONDR (NO.12) INSULATED	LF			1,660.000		1,660.000	
	620-6009	ELEC CONDR (NO.6) BARE	LF			6,785.000		6,785.000	
	620-6010	ELEC CONDR (NO.6) INSULATED	LF			595.000		595.000	
	621-6005	TRAY CABLE (4 CONDR) (12 AWG)	LF			2,685.000		2,685.000	
	624-6002	GROUND BOX TY A (122311)W/APRON	EA			4.000		4.000	
	624-6009	GROUND BOX TY D (162922)	EA			10.000		10.000	
	624-6010	GROUND BOX TY D (162922)W/APRON	EA			15.000		15.000	
	624-6028	REMOVE GROUND BOX	EA			3.000		3.000	
	628-6002	REMOVE ELECTRICAL SERVICES	EA			3.000		3.000	
	628-6035	ELC SRV TY A 240/480 060(NS)AL(E)TP(O)	EA			2.000		2.000	
	628-6167	ELC SRV TY D 120/240 070(NS)AL(E)TP(O)	EA			5.000		5.000	
	636-6001	ALUMINUM SIGNS (TY A)	SF			74.000		74.000	
	644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	1.000		91.000		92.000	
	644-6004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA			26.000		26.000	
	644-6005	IN SM RD SN SUP&AM TY10BWG(1)SA(T-2EXT)	EA			1.000		1.000	
	644-6007	IN SM RD SN SUP&AM TY10BWG(1)SA(U)	EA			2.000		2.000	
	644-6027	IN SM RD SN SUP&AM TYS80(1)SA(P)	EA			2.000		2.000	
	644-6030	IN SM RD SN SUP&AM TYS80(1)SA(T)	EA			4.000		4.000	
	644-6033	IN SM RD SN SUP&AM TYS80(1)SA(U)	EA			7.000		7.000	
	644-6050	IN SM RD SN SUP&AM TYS80(2)SA(P)	EA			1.000		1.000	
	644-6051	IN SM RD SN SUP&AM TYS80(2)SA(P-EXAL)	EA			1.000		1.000	
	644-6064	IN BRIDGE MNT CLEARANCE SGN ASSM(TY N)	EA			3.000		3.000	
	644-6066	IN SM RD SN SUP&AM (RAIL MOUNT)	EA			9.000		9.000	
	644-6076	REMOVE SM RD SN SUP&AM	EA			86.000		86.000	
	658-6013	INSTL DEL ASSM (D-SW)SZ (BRF)CTB	EA			18.000		18.000	
	658-6061	INSTL DEL ASSM (D-SW)SZ 1(BRF)GF2	EA			12.000		12.000	
	658-6084	INSTL DEL ASSM (D-SW)SZ 1(WFLX)SRF(BI)	EA			15.000		15.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio

COUNTY Bexar, Comal

HIGHWAY FM 2252

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	658-6099	INSTL OM ASSM (OM-2Z)(WFLX)GND	EA			66.000		66.000	
	658-6101	INSTL OM ASSM (OM-2Z)(WFLX)SRF)SRF	EA			25.000		25.000	
	658-6102	INSTL OM ASSM (OM-3L)(WFLX)SRF)SRF	EA			1.000		1.000	
	658-6103	INSTL OM ASSM (OM-3L)(WFLX)GND)GND	EA			2.000		2.000	
	658-6106	INSTL OM ASSM (OM-3R)(WFLX)GND)GND	EA			3.000		3.000	
	658-6109	INSTL OM ASSM (OM-2Z)(WFLX)SRF(BI)	EA			2.000		2.000	
	662-6001	WK ZN PAV MRK NON-REMOV (W)4"(BRK)	LF	140.000		7,330.000		7,470.000	
	662-6002	WK ZN PAV MRK NON-REMOV (W)4"(DOT)	LF	68.000		455.000		523.000	
	662-6004	WK ZN PAV MRK NON-REMOV (W)4"(SLD)	LF	36.000		27,176.000		27,212.000	
	662-6008	WK ZN PAV MRK NON-REMOV (W)6"(SLD)	LF	390.000		6,943.000		7,333.000	
	662-6012	WK ZN PAV MRK NON-REMOV (W)8"(SLD)	LF	436.000		9,239.000		9,675.000	
	662-6016	WK ZN PAV MRK NON-REMOV (W)24"(SLD)	LF	124.000		3,003.000		3,127.000	
	662-6017	WK ZN PAV MRK NON-REMOV (W)(ARROW)	EA	2.000		44.000		46.000	
	662-6026	WK ZN PAV MRK NON-REMOV (W)(UTURN ARW)	EA			10.000		10.000	
	662-6029	WK ZN PAV MRK NON-REMOV(W)(WORD)	EA	2.000		54.000		56.000	
	662-6031	WK ZN PAV MRK NON-REMOV(W)36"(YLD TRI)	EA			16.000		16.000	
	662-6032	WK ZN PAV MRK NON-REMOV (Y)4"(BRK)	LF			1,620.000		1,620.000	
	662-6033	WK ZN PAV MRK NON-REMOV (Y)4"(DOT)	LF			44.000		44.000	
	662-6034	WK ZN PAV MRK NON-REMOV (Y)4"(SLD)	LF	524.000		38,211.000		38,735.000	
	662-6041	WK ZN PAV MRK NON-REMOV (Y)24"(SLD)	LF			192.000		192.000	
	662-6043	WK ZN PAV MRK NON-REMOV (Y)(MED NOSE)	EA			8.000		8.000	
	662-6063	WK ZN PAV MRK REMOV (W)4"(SLD)	LF	152.000		96,129.000		96,281.000	
	662-6071	WK ZN PAV MRK REMOV (W)8"(SLD)	LF			4,608.000		4,608.000	
	662-6075	WK ZN PAV MRK REMOV (W)24"(SLD)	LF			416.000		416.000	
	662-6080	WK ZN PAV MRK REMOV (W)(ARROW)	EA			30.000		30.000	
	662-6086	WK ZN PAV MRK REMOV (W)(RR XING)	EA			2.000		2.000	
	662-6090	WK ZN PAV MRK REMOV (W)(WORD)	EA			28.000		28.000	
	662-6093	WK ZN PAV MRK REMOV (Y)4"(BRK)	LF			8,856.000		8,856.000	
	662-6095	WK ZN PAV MRK REMOV (Y)4"(SLD)	LF	652.000		127,465.000		128,117.000	
	662-6102	WK ZN PAV MRK REMOV (Y)24"(SLD)	LF			304.000		304.000	
	662-6108	WK ZN PAV MRK REMOV (Y)(MED NOSE)	EA			41.000		41.000	
	662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	133.000		8,148.000		8,281.000	
	662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	84.000		14,387.000		14,471.000	
	666-6018	REFL PAV MRK TY I (W)6"(DOT)(100MIL)	LF	68.000		337.000		405.000	
	666-6030	REFL PAV MRK TY I (W)8"(DOT)(100MIL)	LF			618.000		618.000	
	666-6036	REFL PAV MRK TY I (W)8"(SLD)(100MIL)	LF	436.000		9,437.000		9,873.000	
	666-6048	REFL PAV MRK TY I (W)24"(SLD)(100MIL)	LF	334.000		3,173.000		3,507.000	

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Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio

COUNTY Bexar, Comal

HIGHWAY FM 2252

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	666-6054	REFL PAV MRK TY I (W)(ARROW)(100MIL)	EA	2.000		44.000		46.000	
	666-6063	REFL PAV MRK TY I(W)(UTURN ARW)(100MIL)	EA			10.000		10.000	
	666-6078	REFL PAV MRK TY I (W)(WORD)(100MIL)	EA	2.000		54.000		56.000	
	666-6132	REFL PAV MRK TY I (Y)6"(DOT)(100MIL)	LF			44.000		44.000	
	666-6147	REFL PAV MRK TY I (Y)24"(SLD)(100MIL)	LF			192.000		192.000	
	666-6156	REFL PAV MRK TY I(Y)(MED NOSE)(100MIL)	EA			8.000		8.000	
	666-6162	RE PV MRK TY I(BLACK)6"(SHADOW)(100MIL)	LF			400.000		400.000	
	666-6225	PAVEMENT SEALER 6"	LF	1,339.000		88,853.000		90,192.000	
	666-6226	PAVEMENT SEALER 8"	LF	436.000		10,055.000		10,491.000	
	666-6230	PAVEMENT SEALER 24"	LF	334.000		3,365.000		3,699.000	
	666-6231	PAVEMENT SEALER (ARROW)	EA	2.000		44.000		46.000	
	666-6232	PAVEMENT SEALER (WORD)	EA	2.000		54.000		56.000	
	666-6233	PAVEMENT SEALER (MED NOSE)	EA			8.000		8.000	
	666-6236	PAVEMENT SEALER (UTURN ARROW)	EA			10.000		10.000	
	666-6244	PAVEMENT SEALER (BIKE ARROW)	EA	2.000		10.000		12.000	
	666-6245	PAVEMENT SEALER (BIKE SYMBOL)	EA	2.000		10.000		12.000	
	666-6306	RE PM W/RET REQ TY I (W)6"(BRK)(100MIL)	LF	140.000		7,340.000		7,480.000	
	666-6309	RE PM W/RET REQ TY I (W)6"(SLD)(100MIL)	LF	607.000		34,132.000		34,739.000	
	666-6318	RE PM W/RET REQ TY I (Y)6"(BRK)(100MIL)	LF			1,620.000		1,620.000	
	666-6321	RE PM W/RET REQ TY I (Y)6"(SLD)(100MIL)	LF	524.000		44,980.000		45,504.000	
	668-6094	PREFAB PAV MRK TY C (W)(BIKE ARROW)	EA	2.000		10.000		12.000	
	668-6096	PREFAB PAV MRK TY C (W)(BIKE SYMBOL)	EA	2.000		10.000		12.000	
	672-6007	REFL PAV MRKR TY I-C	EA			315.000		315.000	
	672-6009	REFL PAV MRKR TY II-A-A	EA			928.000		928.000	
	672-6010	REFL PAV MRKR TY II-C-R	EA	19.000		619.000		638.000	
	677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	478.000		40,639.000		41,117.000	
	677-6003	ELIM EXT PAV MRK & MRKS (8")	LF			1,784.000		1,784.000	
	677-6007	ELIM EXT PAV MRK & MRKS (24")	LF			177.000		177.000	
	677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA			4.000		4.000	
	677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA			4.000		4.000	
	677-6016	ELIM EXT PAV MRK & MRKS (RR XING)	EA			1.000		1.000	
	677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA			5.000		5.000	
	677-6023	ELIM EXT PAV MRK & MARKS (BIKE ARROW)	EA			1.000		1.000	
	677-6025	ELIM EXT PAV MRK & MARKS (BIKE SYMBOL)	EA			1.000		1.000	
	680-6001	INSTALL HWY TRF SIG (FLASH BEACON)	EA			2.000		2.000	
	680-6003	INSTALL HWY TRF SIG (SYSTEM)	EA			3.000		3.000	
	680-6004	REMOVING TRAFFIC SIGNALS	EA			1.000		1.000	

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DISTRICT	COUNTY	CCSJ	SHEET
San Antonio	Comal	1433-02-044	51G



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio
HIGHWAY FM 2252

COUNTY Bexar, Comal

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	682-6001	VEH SIG SEC (12")LED(GRN)	EA			24.000		24.000	
	682-6002	VEH SIG SEC (12")LED(GRN ARW)	EA			9.000		9.000	
	682-6003	VEH SIG SEC (12")LED(YEL)	EA			50.000		50.000	
	682-6004	VEH SIG SEC (12")LED(YEL ARW)	EA			9.000		9.000	
	682-6005	VEH SIG SEC (12")LED(RED)	EA			28.000		28.000	
	682-6006	VEH SIG SEC (12")LED(RED ARW)	EA			9.000		9.000	
	682-6007	VEH SIG SEC (12")LED(GRN U-TURN ARW)	EA			1.000		1.000	
	682-6008	VEH SIG SEC (12")LED(YEL U-TURN ARW)	EA			1.000		1.000	
	682-6009	VEH SIG SEC (12")LED(RED U-TURN ARW)	EA			1.000		1.000	
	682-6018	PED SIG SEC (LED)(COUNTDOWN)	EA			20.000		20.000	
	682-6021	BACK PLATE (12")(1 SEC)	EA			24.000		24.000	
	682-6060	BACKPLATE W/REFL BRDR(3 SEC)	EA			34.000		34.000	
	684-6009	TRF SIG CBL (TY A)(12 AWG)(4 CONDR)	LF			4,320.000		4,320.000	
	684-6012	TRF SIG CBL (TY A)(12 AWG)(7 CONDR)	LF			6,779.000		6,779.000	
	684-6028	TRF SIG CBL (TY A)(14 AWG)(2 CONDR)	LF			4,805.000		4,805.000	
	685-6003	REMOVE RDSB FLASH BEACON ASSEMBLY	EA			2.000		2.000	
	685-6004	INSTL RDSB FLSH BCN ASSM (SOLAR PWRD)	EA			5.000		5.000	
	686-6029	INS TRF SIG PL AM (S)1 ARM(28')	EA			1.000		1.000	
	686-6035	INS TRF SIG PL AM(S)1 ARM(32')LUM	EA			2.000		2.000	
	686-6041	INS TRF SIG PL AM(S)1 ARM(40')	EA			2.000		2.000	
	686-6045	INS TRF SIG PL AM(S)1 ARM(44')	EA			1.000		1.000	
	686-6047	INS TRF SIG PL AM(S)1 ARM(44')LUM	EA			4.000		4.000	
	686-6051	INS TRF SIG PL AM(S)1 ARM(48')LUM	EA			1.000		1.000	
	686-6055	INS TRF SIG PL AM(S)1 ARM(50')LUM	EA			2.000		2.000	
	686-6059	INS TRF SIG PL AM(S)1 ARM(55')LUM	EA			1.000		1.000	
	686-6063	INS TRF SIG PL AM(S)1 ARM(60')LUM	EA			2.000		2.000	
	687-6001	PED POLE ASSEMBLY	EA			16.000		16.000	
	688-6001	PED DETECT PUSH BUTTON (APS)	EA			24.000		24.000	
	688-6003	PED DETECTOR CONTROLLER UNIT	EA			4.000		4.000	
	690-6001	REMOVAL OF CONDUIT	LF			824.000		824.000	
	730-6106	STRIP MOWING	CYC			13.000		13.000	
	734-6002	LITTER REMOVAL	CYC			41.000		41.000	
	740-6005	ANTI - GRAFFITI COATNG(PERMNENT-TY III)	SF			38,697.000		38,697.000	
	1004-6001	TREE PROTECTION	EA			8.000		8.000	
	3076-6001	D-GR HMA TY-B PG64-22	TON			18,900.000		18,900.000	
	3076-6023	D-GR HMA TY-C PG70-22	TON			9,366.000		9,366.000	
	3076-6066	TACK COAT	GAL			8,523.000		8,523.000	

2 Revised: 04/19/2023



DISTRICT	COUNTY	CCSJ	SHEET
San Antonio	Comal	1433-02-044	51H



Estimate & Quantity Sheet

CONTROLLING PROJECT ID 1433-02-044

DISTRICT San Antonio

COUNTY Bexar, Comal

HIGHWAY FM 2252

CONTROL SECTION JOB				1433-01-028		1433-02-044		TOTAL EST.	TOTAL FINAL
PROJECT ID				A00047810		A00047910			
COUNTY				Bexar		Comal			
HIGHWAY				FM 2252		FM 2252			
ALT	BID CODE	DESCRIPTION	UNIT	EST.	FINAL	EST.	FINAL		
	3077-6053	SP MIXESSP-DSAC-B PG70-22	TON	104.000		18,047.000		18,151.000	
	3085-6001	UNDERSEAL COURSE	GAL			16,286.000		16,286.000	
	4021-6001	TIP TESTING(DRILL SHAFT)	EA			3.000		3.000	
	4171-6001	INSTALL BRIDGE IDENTIFICATION NUMBERS	EA			10.000		10.000	
	5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY			24,277.000		24,277.000	
	6001-6001	PORTABLE CHANGEABLE MESSAGE SIGN	DAY			326.000		326.000	
	6001-6002	PORTABLE CHANGEABLE MESSAGE SIGN	EA			4.000		4.000	
	6185-6002	TMA (STATIONARY)	DAY			282.000		282.000	
	6185-6005	TMA (MOBILE OPERATION)	DAY			59.000		59.000	
	6292-6001	RVDS(PRESENCE DETECTION ONLY)	EA			11.000		11.000	
	6292-6002	RVDS(ADVANCE DETECTION ONLY)	EA			8.000		8.000	
18		RAILROAD FLAGGING: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS			1.000		1.000	
		EROSION CONTROL MAINTENANCE: CONTRACTOR FORCE ACCOUNT WORK (PART)	LS			1.000		1.000	
		LAW ENFORCEMENT: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS			1.000		1.000	
		Overhead Utility Pole Bracing/De-energizing	LS			1.000		1.000	
		SAFETY CONTINGENCY: CONTRACTOR FORCE ACCOUNT WORK (PARTICIPATING)	LS			1.000		1.000	

Revised: 04/19/2023

DISTRICT	COUNTY	CCSJ	SHEET
San Antonio	Comal	1433-02-044	511

TRAFFIC CONTROL SUMMARY

TCP PHASE I

LOCATION	403	508	512	512	512	512	512	512	662	662	662	662	662	662	662	
	6001	6001	6009	6010	6033	6034	6057	6058	6063	6071	6080	6090	6093	6095	6102	6108
	TEMPORARY SPL SHORING	CONSTRUCTING DETOURS	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	PORT CTB (MOVE) (LOW PROF) (TY 1)	PORT CTB (MOVE) (LOW PROF) (TY 2)	PORT CTB (REMOVE) (LOW PROF) (TY 1)	PORT CTB (REMOVE) (LOW PROF) (TY 2)	PORT CTB (REMOVE) (LOW PROF) (TY 2)	WK ZN PAV MRK REMOV (W) 4" (SLD)	WK ZN PAV MRK REMOV (W) 8" (SLD)	WK ZN PAV MRK REMOV (W) (ARROW)	WK ZN PAV MRK REMOV (W) (WORD)	WK ZN PAV MRK REMOV (Y) 4" (BRK)	WK ZN PAV MRK REMOV (Y) 4" (SLD)	WK ZN PAV MRK REMOV (Y) 24" (SLD)
	SF	SY	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	LF	LF	LF	EA
CROSSING C SHT 1	1087		220	40					1513					2958		2
CROSSING C SHT 2	1565	1090	1240	80	220	40			1787					3350		2
CROSSING C SHT 3	902				280	40	280	40	2671	227				4172		2
CROSSING C SHT 4							280	40	2741	244			560	3172	32	2
CROSSING D SHT 1	744		60	40					1406					2204		2
CROSSING D SHT 2	356	774	240	80	60	40			1357					2620		2
CROSSING D SHT 3	678				280	80	20	40	2015					3592		1
CROSSING D SHT 4							280	80	2272	179	2	2	340	2678	48	2
CROSSING E SHT 1	298		80	40					1740					2834		2
CROSSING E SHT 2	230	1472	180	80	80	40			2226					3304		2
CROSSING E SHT 3	654				60	40	20	40	3272					5116		2
CROSSING E SHT 4							240	80	3301				840	3290		2
CROSSING F SHT 1	948		220	40					1906					3462		1
CROSSING F SHT 2	634	948	700	80	220	40			1521	60	1	1	120	3666		2
CROSSING F SHT 3	656				480	100			2711					3806		1
CROSSING F SHT 4							740	120	2267	388	2	2	320	3408		1
CSJ 1433-02-044 TOTALS	8752	4284	2940	480	1680	420	2040	440	34706	1098	5	5	2180	53632	80	26

LOCATION	662	662	677	677	677	677	677	677	6001
	6109	6111	6001	6003	6007	6008	6012	6020	6001
	WK ZN PAV MRK SHT TERM (TAB) TY W	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	ELIM EXT PAV MRK & MRKS (4")	ELIM EXT PAV MRK & MRKS (8")	ELIM EXT PAV MRK & MRKS (24")	ELIM EXT PAV MRK & MRKS (ARROW)	ELIM EXT PAV MRK & MRKS (WORD)	ELIM EXT PAV MRK & MRKS (MED NOSE)	PORTABLE CHANGEABLE MESSAGE SIGN
	EA	EA	LF	LF	LF	EA	EA	EA	DAY
CROSSING C SHT 1	74	156	4099						
CROSSING C SHT 2	87	164							
CROSSING C SHT 3	141	204	820	245					
CROSSING C SHT 4	146	327							
CROSSING D SHT 1	68	108	2332					2	
CROSSING D SHT 2	66	128							
CROSSING D SHT 3	98	175	1084	83					
CROSSING D SHT 4	120	240							
CROSSING E SHT 1	85	140	3924						
CROSSING E SHT 2	108	164							
CROSSING E SHT 3	160	250	3172						
CROSSING E SHT 4	161	412							
CROSSING F SHT 1	93	168	4002	227	78	2	2	1	
CROSSING F SHT 2	83	216							
CROSSING F SHT 3	132	186	752		43				
CROSSING F SHT 4	130	261							
CSJ 1433-02-044 TOTALS	1752	3299	20185	555	121	2	2	3	** 113

** SEE SEQUENCE OF WORK FOR PLACEMENT AND UTILIZATION.

FM 2252
TRAFFIC CONTROL
SUMMARY



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		53

REVISED 4/19/2023

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GRADING SUMMARY

Ck: _____
 Dk: _____
 Ck: _____
 Dk: _____

LOCATION	531	531	531	540	540	540	540	544	545	3076	3085	5001
	6016	6017	6056	6001	6006	6014	6033	6001	6007	6066	6001	6002
	CURB RAMPS (TY 21)	CURB RAMPS (TY 22)	CONC SIDEWALKS (10")	MTL W-BEAM GD FEN (TIM POST)	MTL BEAM GD FEN TRANS (THRIE-BEAM)	SHORT RADIUS	MTL BM GD FEN (LONG SPAN SYSTEM)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	TACK COAT	UNDERSEAL COURSE	GEOGRID BASE REINFORCEME NT (TY II)
	EA	EA	SY	LF	EA	LF	EA	EA	EA	GAL	GAL	SY
SHEET 1 OF 27												
SHEET 2 OF 27												
CSJ 1433-01-028 TOTALS	0	0	0	0	0	0	0	0	0	0	0	0

LOCATION	531	531	531	540	540	540	540	544	545	3076	3085	5001
	6016	6017	6056	6001	6006	6014	6033	6001	6007	6066	6001	6002
	CURB RAMPS (TY 21)	CURB RAMPS (TY 22)	CONC SIDEWALKS (10")	MTL W-BEAM GD FEN (TIM POST)	MTL BEAM GD FEN TRANS (THRIE-BEAM)	SHORT RADIUS	MTL BM GD FEN (LONG SPAN SYSTEM)	GUARDRAIL END TREATMENT (INSTALL)	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	TACK COAT	UNDERSEAL COURSE	GEOGRID BASE REINFORCEME NT (TY II)
	EA	EA	SY	LF	EA	LF	EA	EA	EA	GAL	GAL	SY
SHEET 2 OF 27										49	97	86
SHEET 3 OF 27			583						1	885	1769	4362
SHEET 4 OF 27			251	56.25	1		1	1		398	797	2990
SHEET 5 OF 27			254	25	1			1		139	277	
SHEET 6 OF 27			231							737	935	
SHEET 7 OF 27										250	426	
SHEET 8 OF 27										193	387	
SHEET 9 OF 27										193	387	
SHEET 10 OF 27										193	387	
SHEET 11 OF 27	1									193	387	
SHEET 12 OF 27										193	387	
SHEET 13 OF 27										254	506	
SHEET 14 OF 27										238	475	
SHEET 15 OF 27			137	25	1			1		193	387	
SHEET 16 OF 27										193	387	
SHEET 17 OF 27										305	510	
SHEET 18 OF 27										195	389	
SHEET 19 OF 27										193	387	
SHEET 20 OF 27										193	387	
SHEET 21 OF 27										424	847	739
SHEET 22 OF 27			57							504	1009	5146
SHEET 23 OF 27			131		1	37.5		1		494	988	5043
SHEET 24 OF 27										433	866	4433
SHEET 25 OF 27		2								558	556	1478
SHEET 26 OF 27		2								438	279	
SHEET 27 OF 27										32	19	
BRACKEN DR SHEET 1 OF 6											428	
BRACKEN DR SHEET 2 OF 6											280	
BRACKEN DR SHEET 3 OF 6											280	
BRACKEN DR SHEET 4 OF 6											280	
BRACKEN DR SHEET 5 OF 6											280	
BRACKEN DR SHEET 6 OF 6											222	
FM 3009 SHEET 1 OF 3			319							202	129	
FM 3009 SHEET 2 OF 3										168	108	
FM 3009 SHEET 3 OF 3										83	51	
CSJ 1433-02-044 TOTALS	1	4	1963	106.25	4	37.5	1	4	1	8523	16286	24277

**FM 2252
GRADING
SUMMARY**

DATE: _____
FILE: _____

REVISED 4/19/2023



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		67

DETENTION POND SUMMARY

ITEM	110	132	161	164	164	168	169	400	432	462	462	465	467	467	467
BID CODE	6003	6006	6017	6007	6071	6001	6003	6002	6002	6001	6006	6006	6107	6110	6172
POND	EXCAV SPECIAL	EMBANKMENT (FINAL) (DENS CONT) (TY C)	COMPOST MANUF TOPSOIL (4")	BROADCAST SEED (PERM) (URBAN) (CLAY)	BROADCAST SEED (TEMP) (WARM OR COOL)	VEGETATIVE WATERING	SOIL RETENTION BLANKETS (CL 1) (TY C)	STRUCT EXCAV (BOX) **	RIPRAP CONC (5 IN)	CONC BOX CULV (3 FT X 2FT)	CONC BOX CULV (5 FT X 2FT)	JCTBOX (COMPL) (PJB) (4FTX4FT)	SET (TY I) (S=3FT) (HW=3FT) (4:1) (P)	SET (TY I) (S=3FT) (HW=3FT) (6:1) (P)	SET (TY I) (S=5FT) (HW=3FT) (4:1) (C)
DETENTION POND (SHEET 1 OF 3)	CY	CY	SY	SY	SY	MG	SY	CY	CY	LF	LF	EA	EA	EA	EA
	644	453	2176	2,176	2,176	35	2176	59	46	62	36	1	1	1	2
CSJ: 1433-02-044 TOTAL	644	453	2176	2,176	2,176	35	2176	59	46	62	36	1	1	1	2

**FOR CONTRACTOR'S INFORMATION ONLY - NON-PAY ITEM

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2 REVISED 4/19/2023



FM 2252

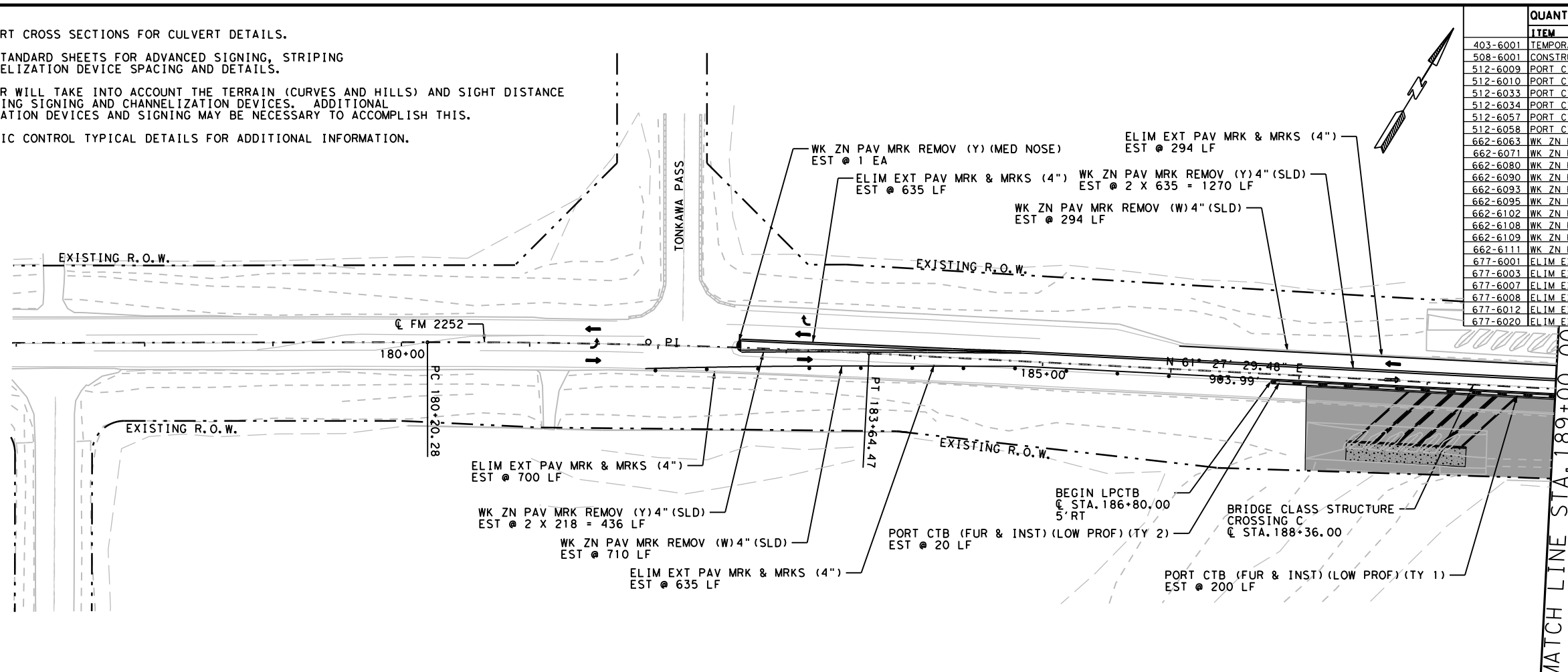
DETENTION POND SUMMARY

SHEET 1 OF 1

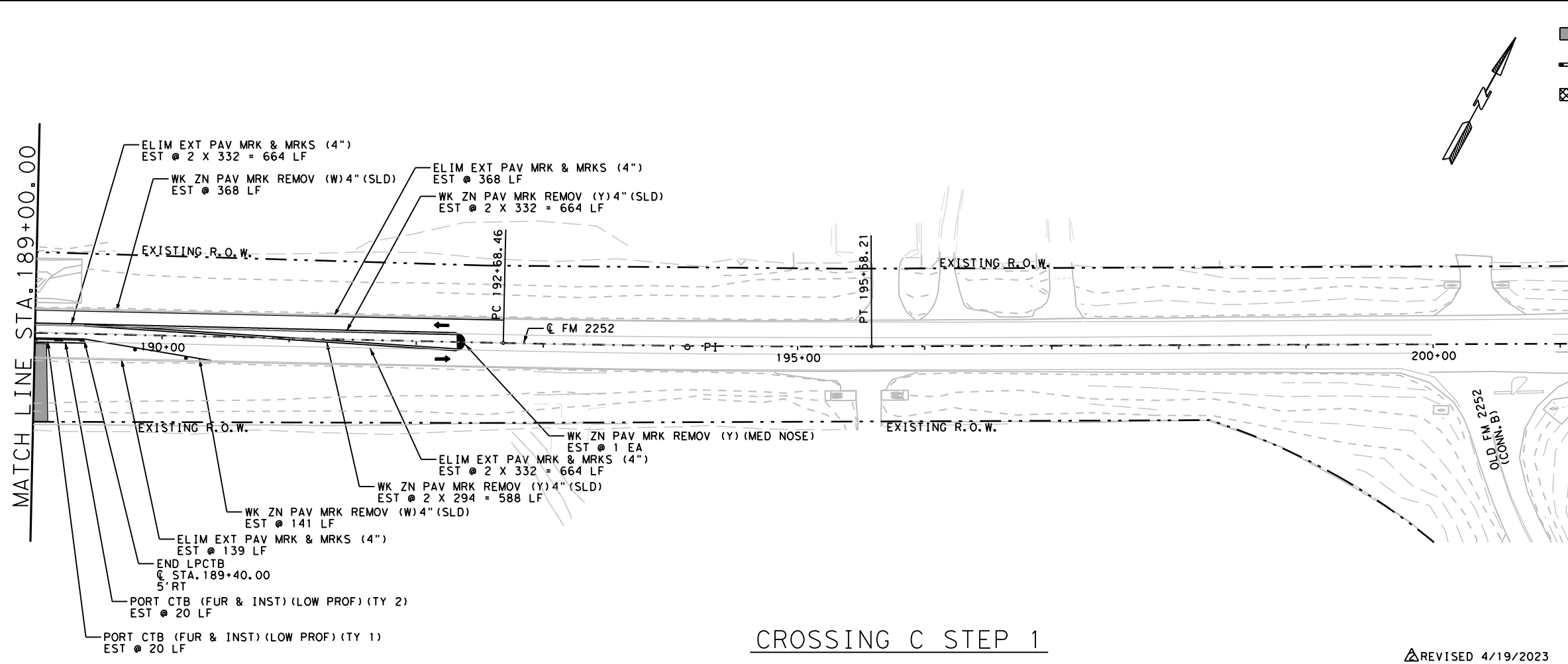
DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS	(SEE TITLE SHEET)	FM 2252
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	SAT	COMAL, ETC	1433	02
			044 ETC	80

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- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNITY	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	1087
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	220
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	40
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	1513
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	LF	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	2958
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	74
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	156
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	4099
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



- LEGEND
- CONSTRUCTION AREA
 - CHANNELIZING DEVICES*
 - LOW PROFILE CONCRETE TRAFFIC BARRIERS
 - SIGN W/SIGN SUPPORT
 - CONSTRUCTING DETOUR AREA
 - DIRECTION OF TRAFFIC
- *SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
CROSSING C
TRAFFIC CONTROL
LAYOUTS**



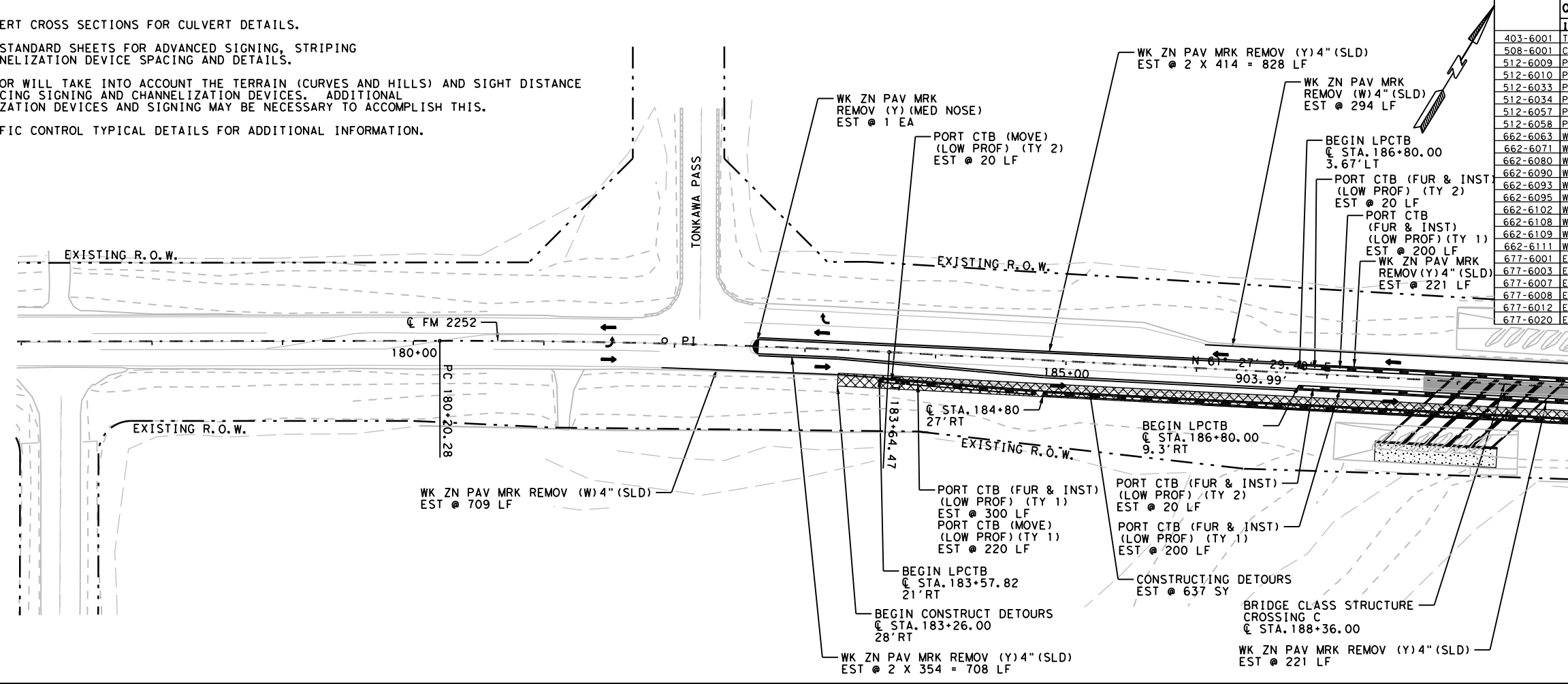
CROSSING C STEP 1

REVISED 4/19/2023 SCALE: 1"=100'

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	275

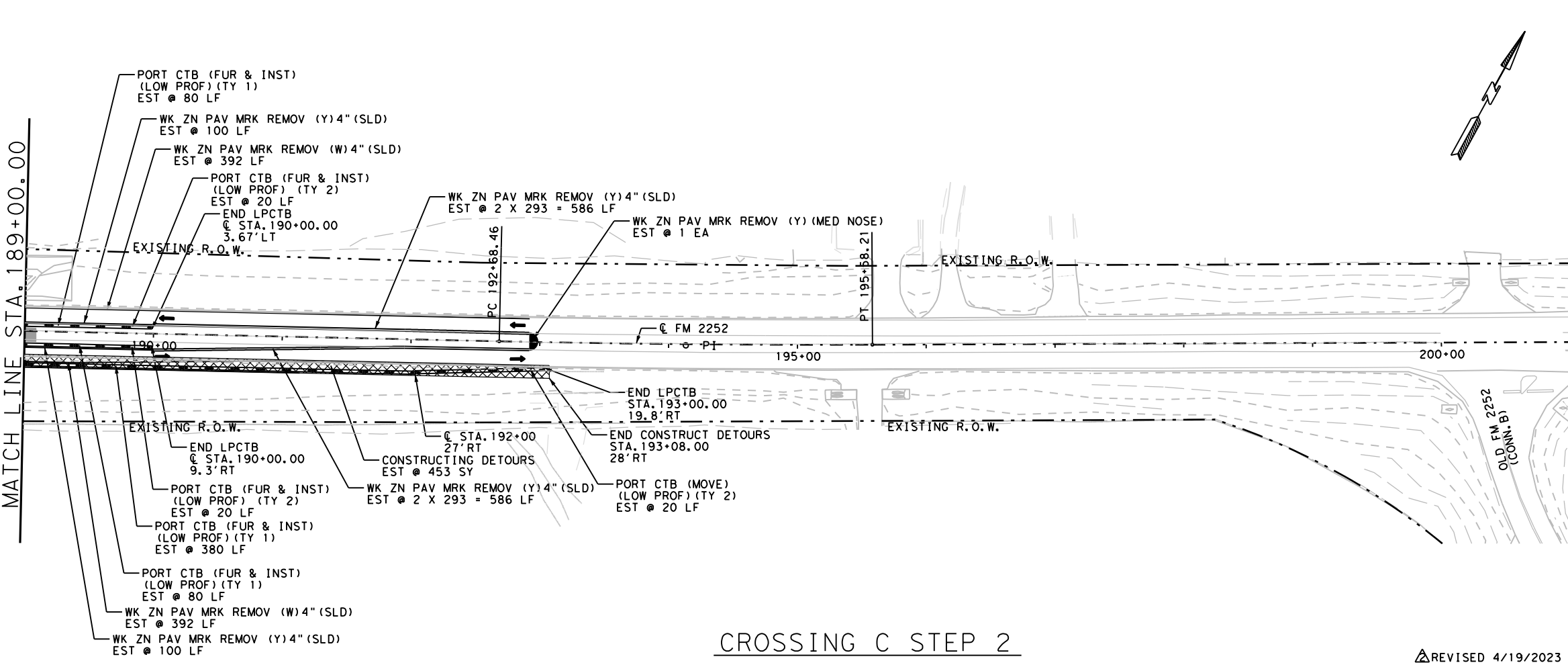
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- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNITY	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	1565
508-6001	CONSTRUCTING DETOURS	SY	1090
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	1240
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	80
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	220
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	40
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4\" (SLD)	LF	1787
662-6071	WK ZN PAV MRK REMOV (W) 8\" (SLD)	LF	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4\" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4\" (SLD)	LF	3350
662-6102	WK ZN PAV MRK REMOV (Y) 24\" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	87
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	164
677-6001	ELIM EXT PAV MRK & MRKS (4\")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8\")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24\")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0

MATCH LINE STA. 189+00.00



LEGEND

- CONSTRUCTION AREA
- CHANNELIZATION DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC (9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
CROSSING C
TRAFFIC CONTROL
LAYOUTS**

CROSSING C STEP 2

REVISED 4/19/2023 SCALE: 1"=100'



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	276

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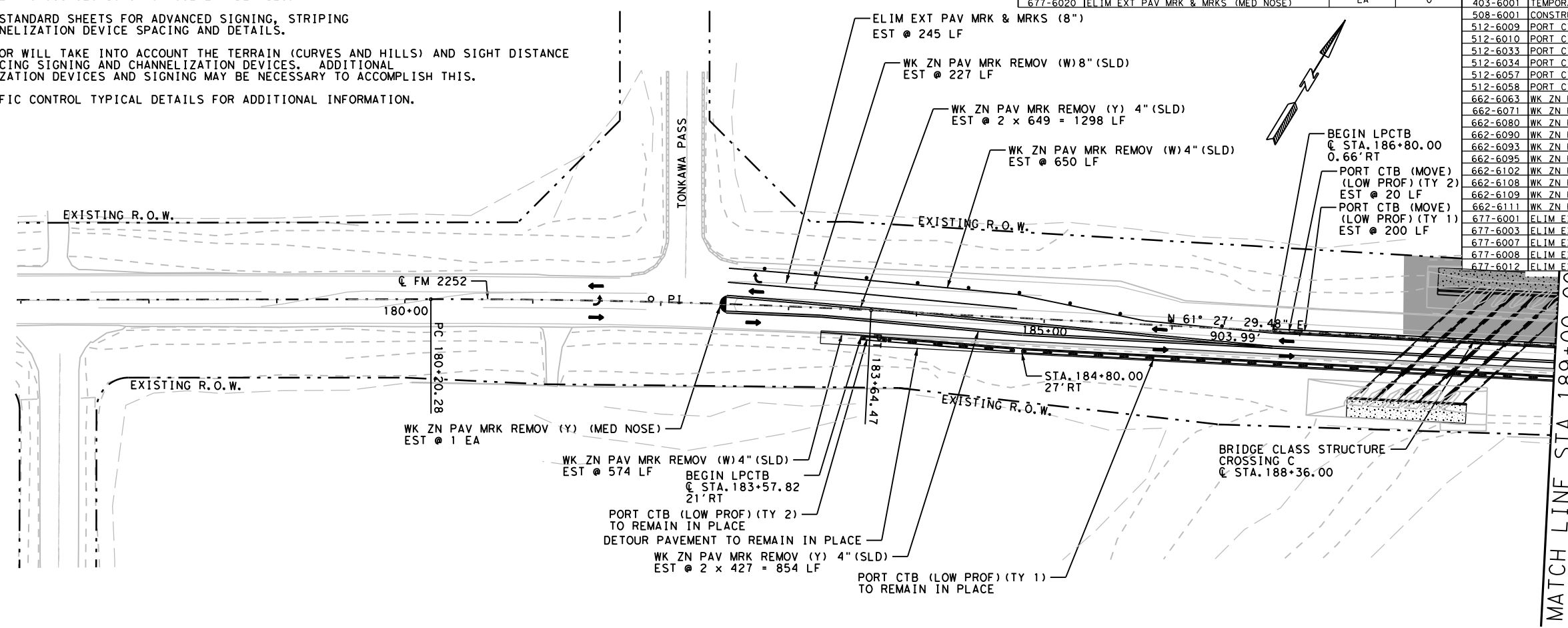
- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA 0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
403-6001	TEMPORARY SPL SHORING	SF 902
508-6001	CONSTRUCTING DETOURS	SY 0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF 0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF 0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF 280
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF 40
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF 280
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF 40
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF 2671
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF 227
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA 0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA 0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF 0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF 4172
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF 0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA 2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA 141
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA 204
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF 820
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF 245
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF 0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA 0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA 0

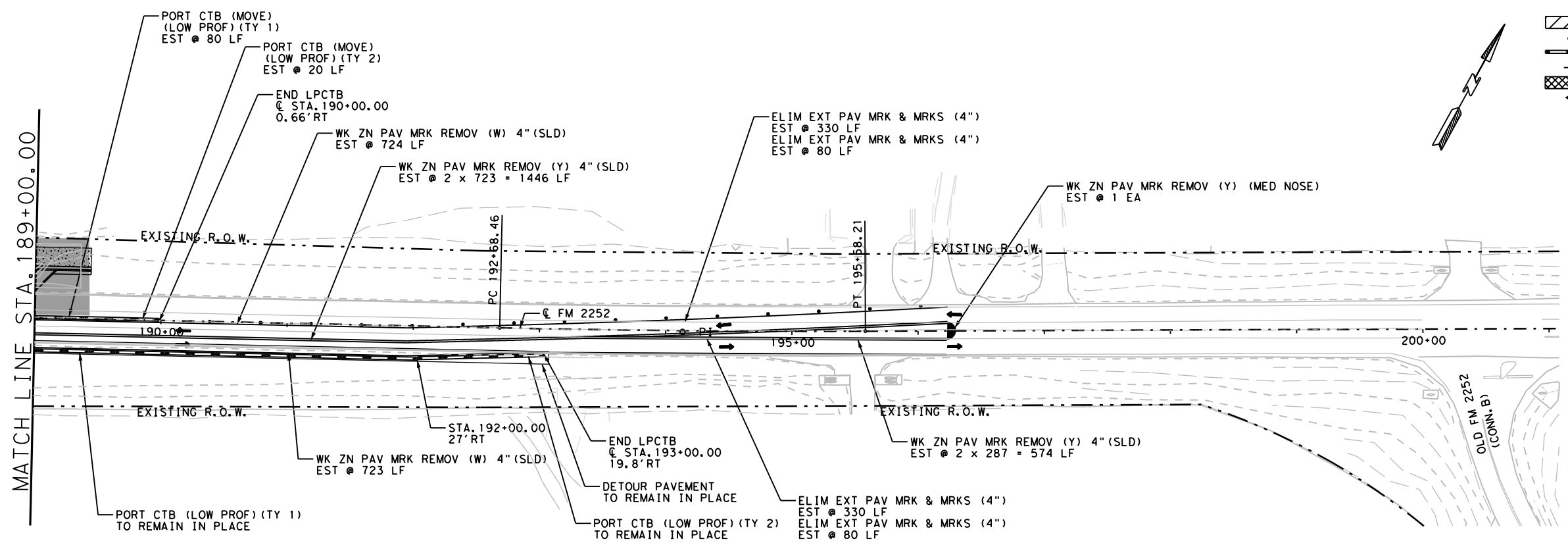


MATCH LINE STA. 189+00.00

LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING C
 TRAFFIC CONTROL
 LAYOUTS**

CROSSING C STEP 3

REVISED 4/19/2023 SCALE: 1"=100'



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	277

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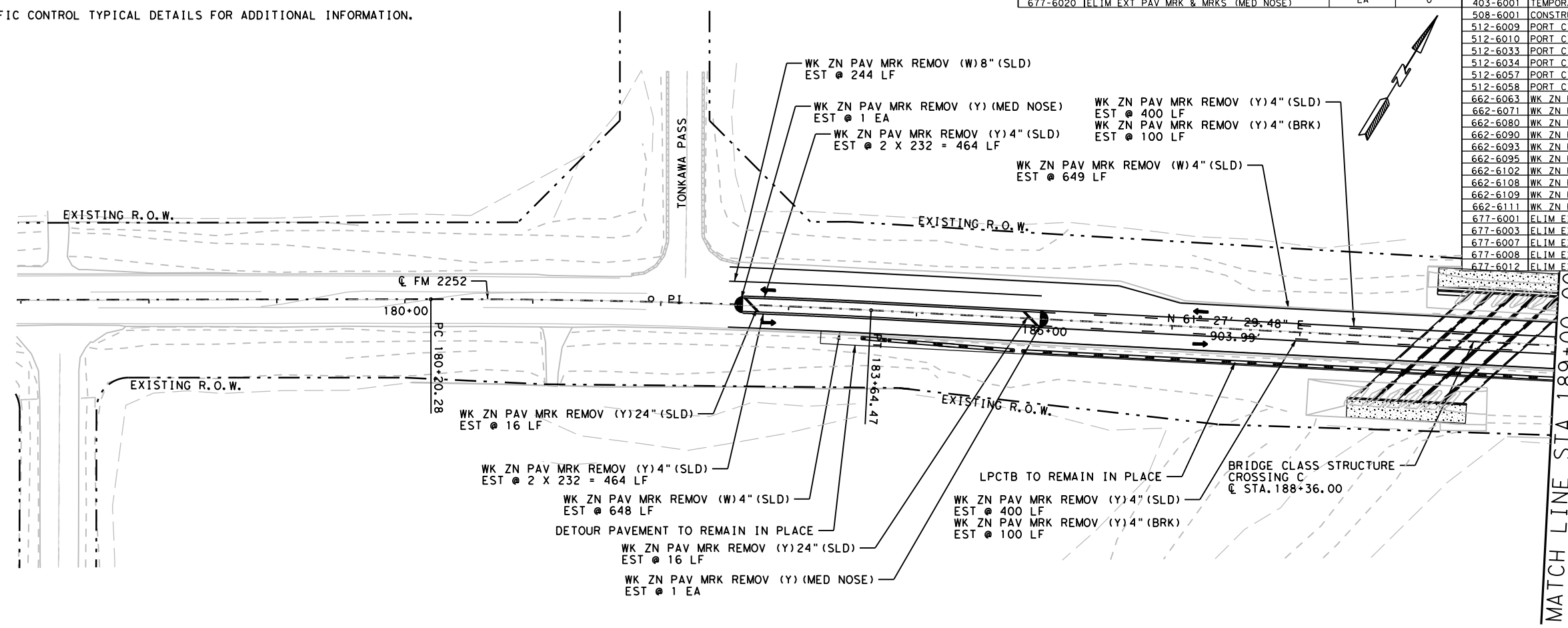
NOTES:
 1. SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 2. SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA 0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
403-6001	TEMPORARY SPL SHORING	SF 0
508-6001	CONSTRUCTING DETOURS	SY 0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF 0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF 0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF 0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF 0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF 280
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF 40
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF 2741
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF 244
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA 0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA 0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF 560
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF 3172
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF 32
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA 2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA 146
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA 327
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF 0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF 0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF 0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA 0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA 0

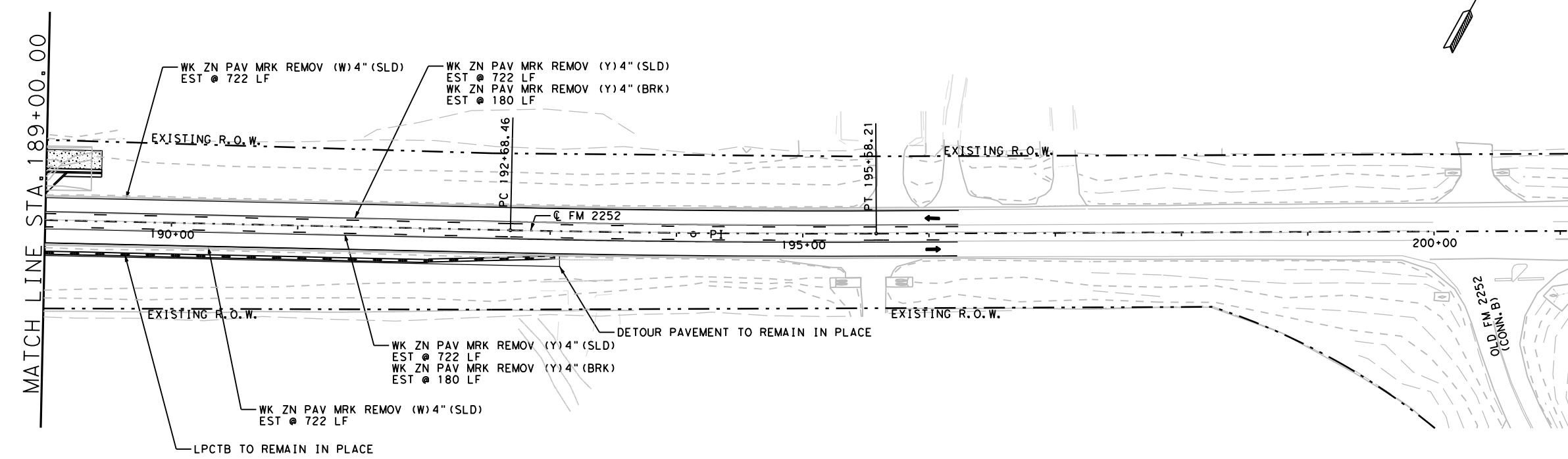


MATCH LINE STA. 189+00.00

LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



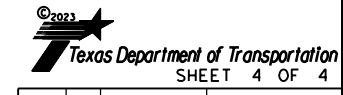
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Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING C
 TRAFFIC CONTROL
 LAYOUTS**



CROSSING C STEP 4

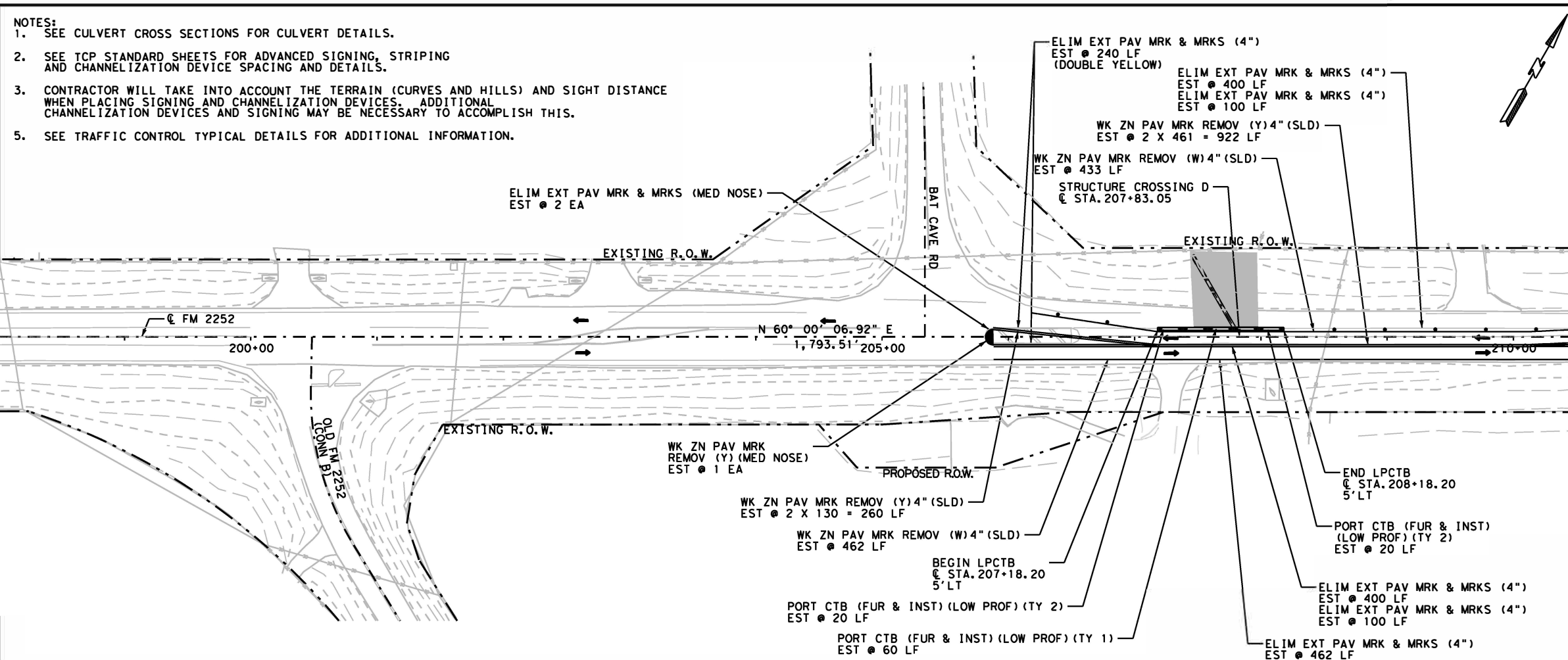
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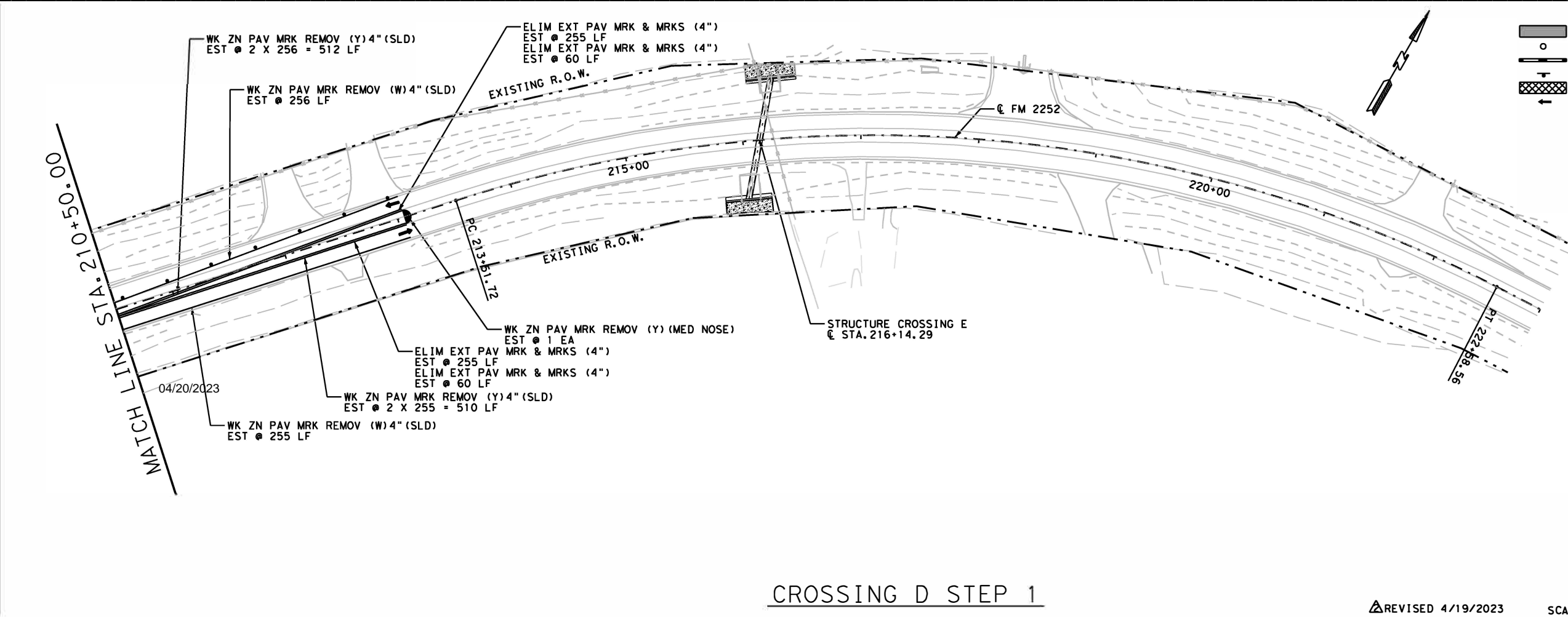
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		278

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- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	744
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	60
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	40
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	1406
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	2204
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	68
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	108
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	2332
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	2



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS

STATE OF TEXAS
 CHRISTIE LYNN HILL
 90991
 LICENSED PROFESSIONAL ENGINEER

Christie Lynn Hill, P.E.

FM 2252
 CROSSING D
 TRAFFIC CONTROL
 LAYOUTS

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 SHEET 1 OF 4

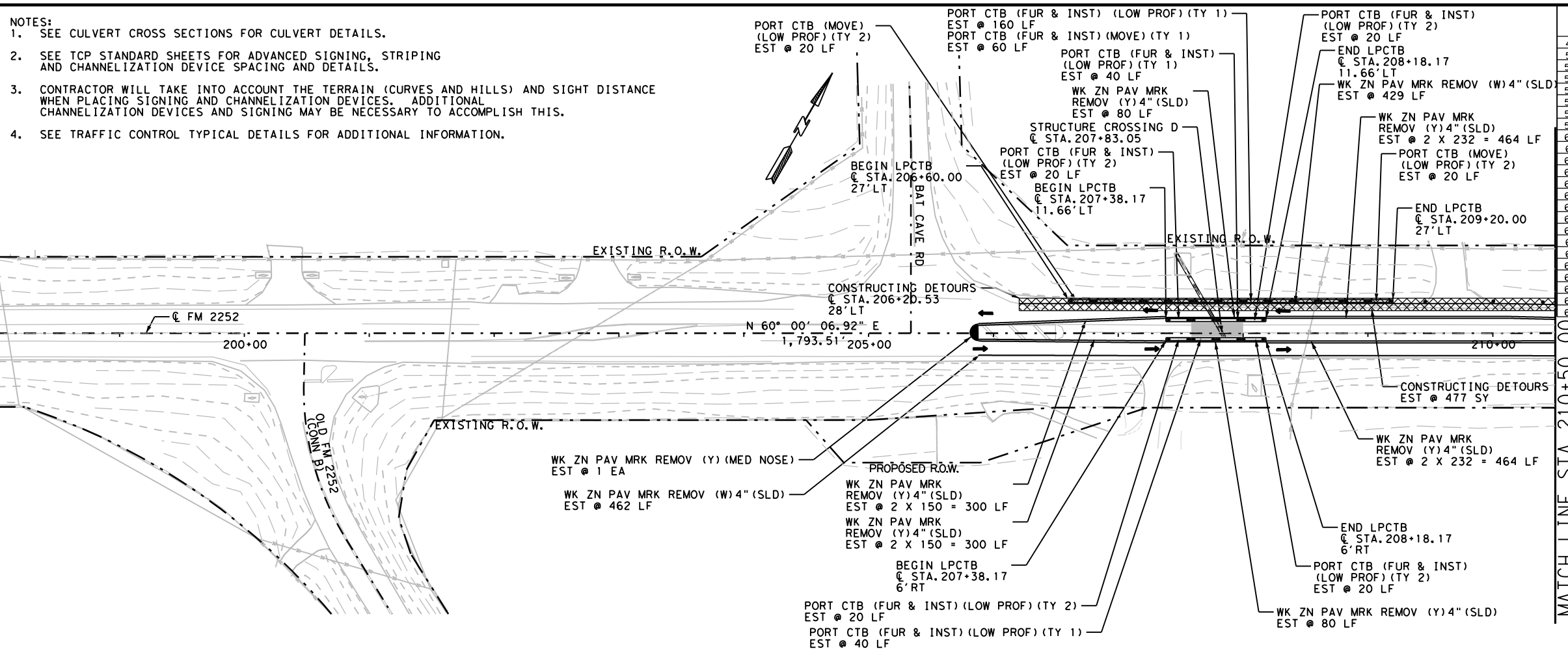
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1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	280	

CROSSING D STEP 1

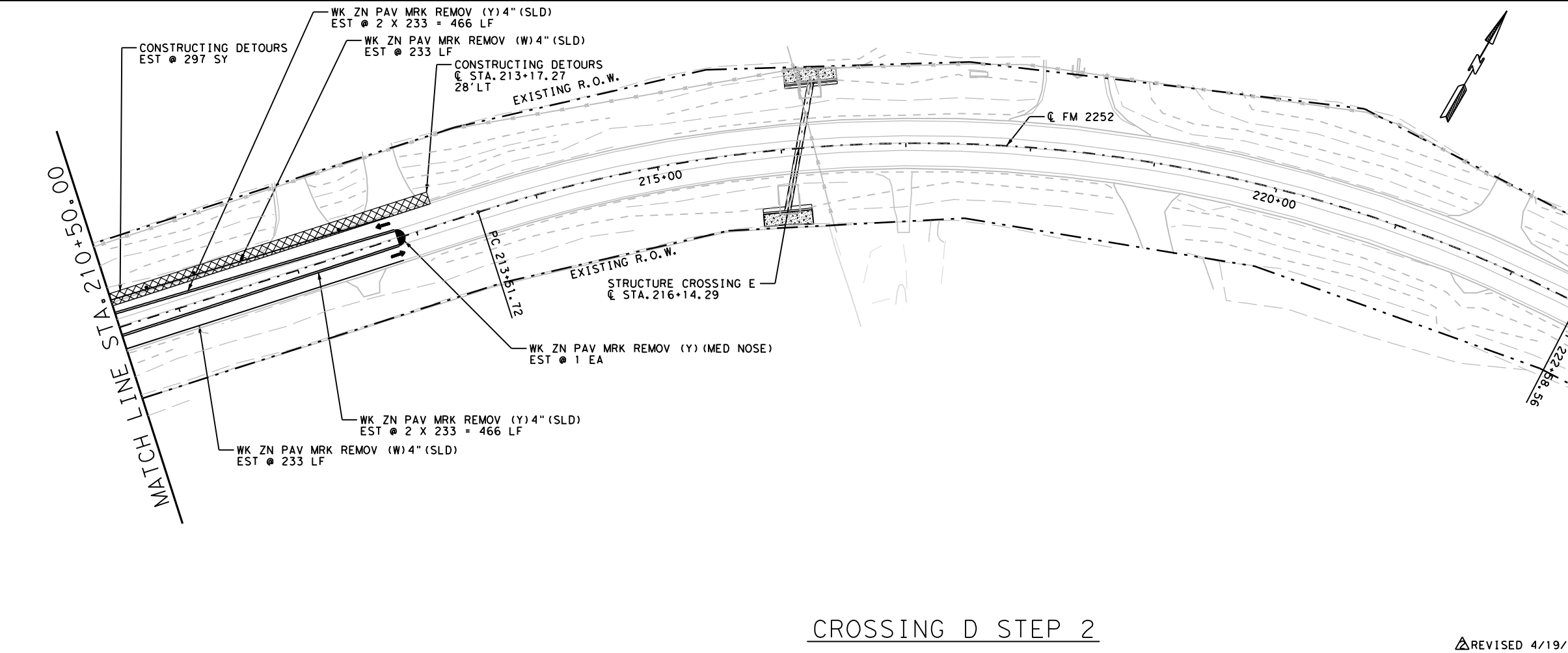
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- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	356
508-6001	CONSTRUCTING DETOURS	SY	774
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	240
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	80
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	60
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	40
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	1357
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	2620
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	66
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	128
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS

Christie Lynn Hill, P.E.

04/20/2023
**FM 2252
 CROSSING D
 TRAFFIC CONTROL
 LAYOUTS**

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 SHEET 2 OF 4

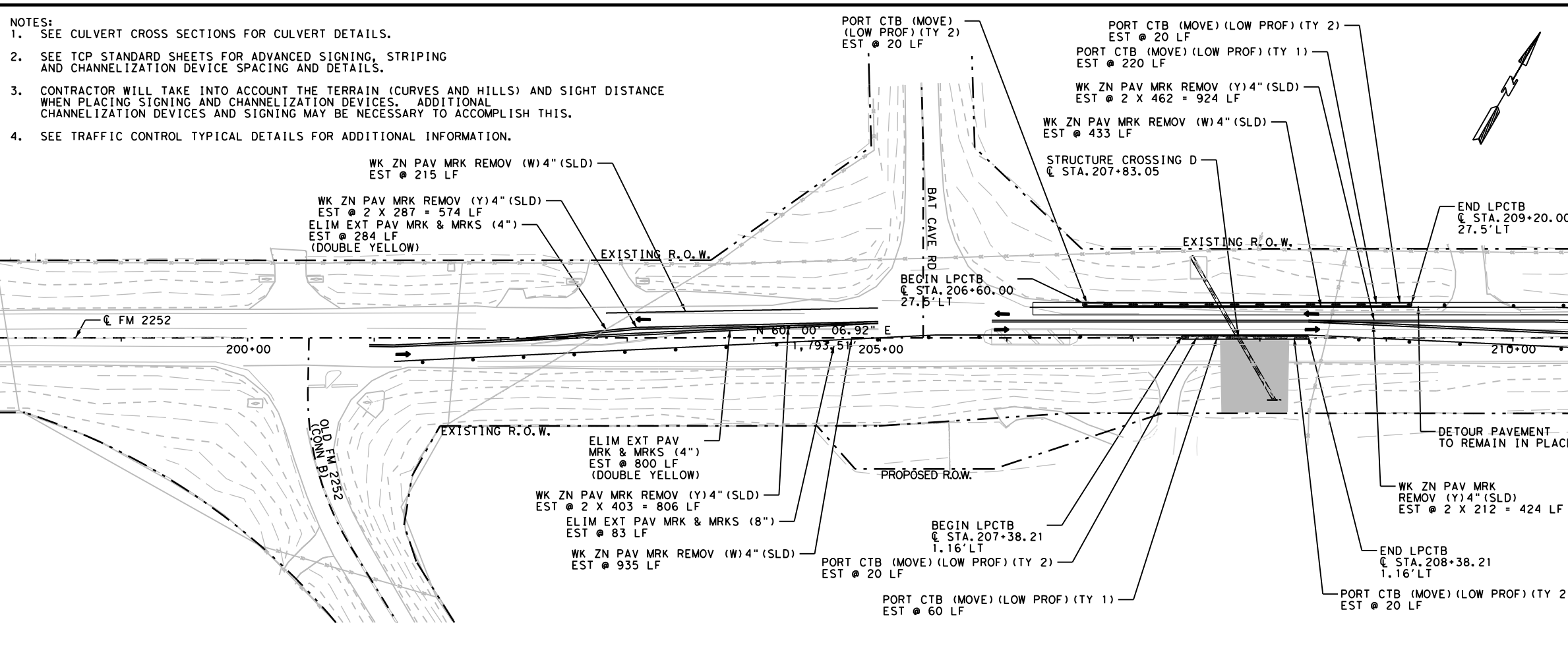
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		281

CROSSING D STEP 2

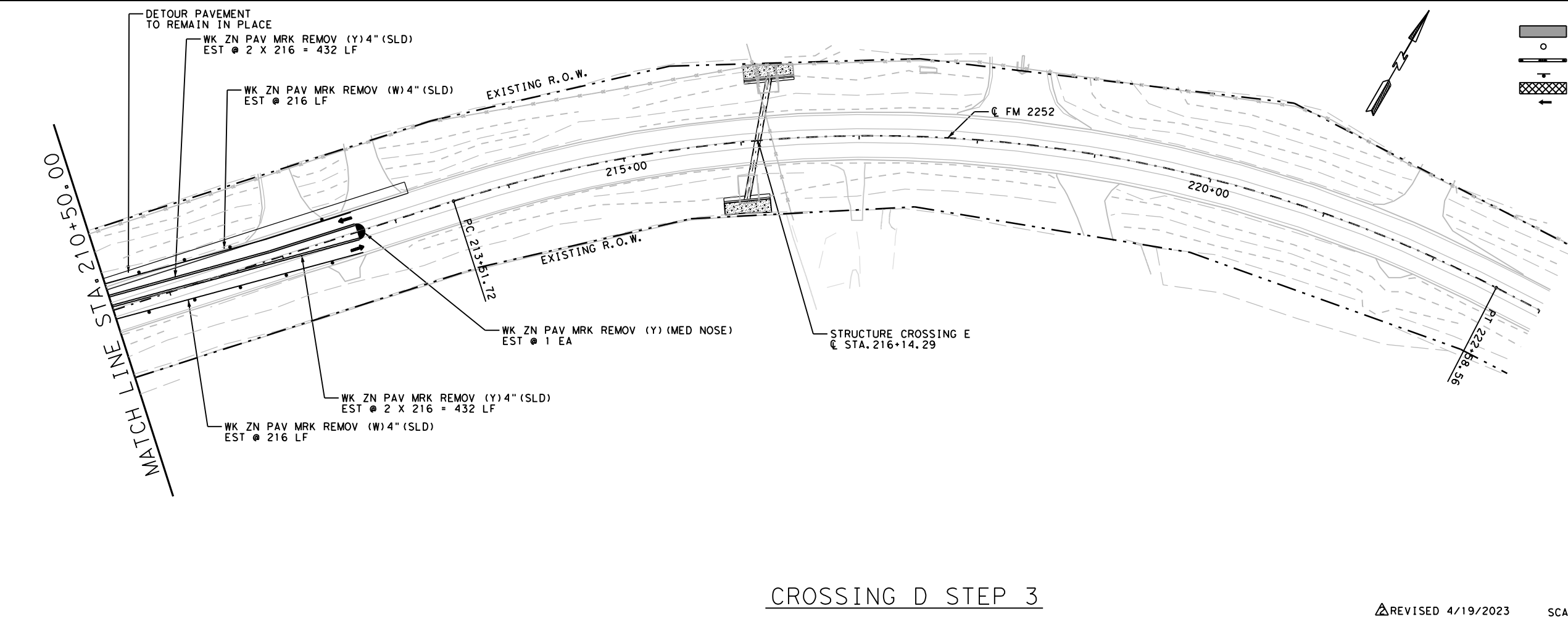
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- NOTES:
1. SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 2. SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 3. CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 4. SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



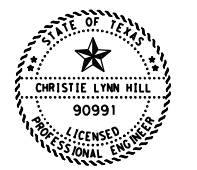
QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	678
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	280
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	80
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	20
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	40
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	2015
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	LF	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	3592
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	1
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	98
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	175
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	1084
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	83
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023
**FM 2252
 CROSSING D
 TRAFFIC CONTROL
 LAYOUTS**



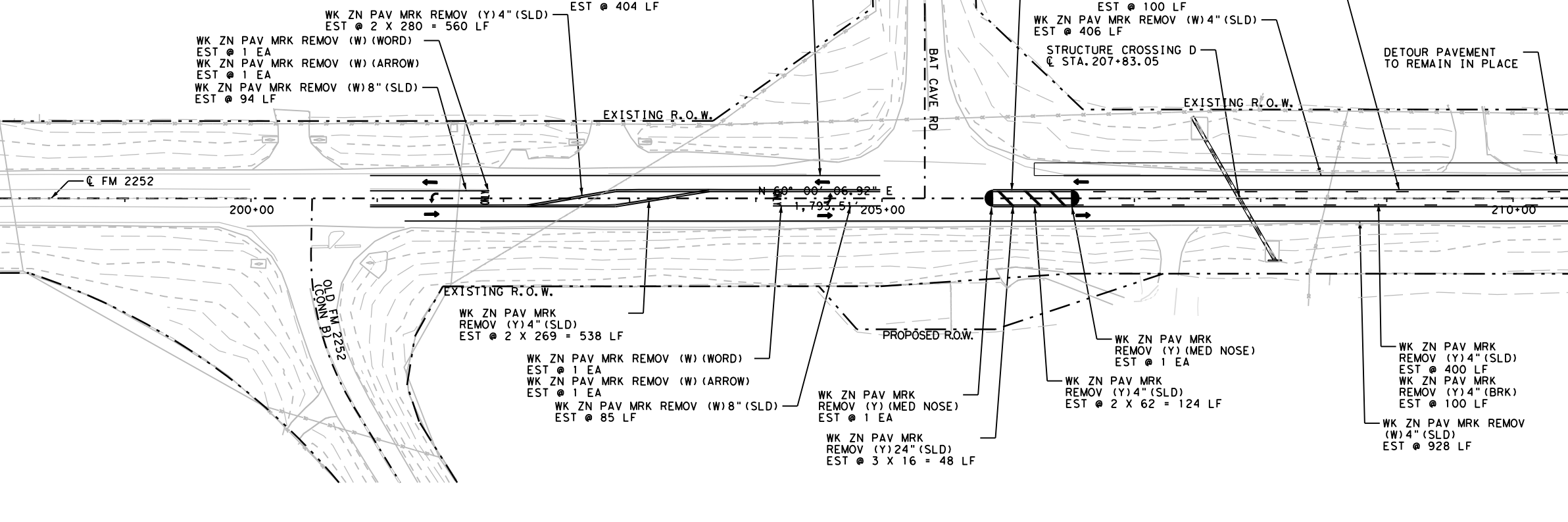
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1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		282

CROSSING D STEP 3

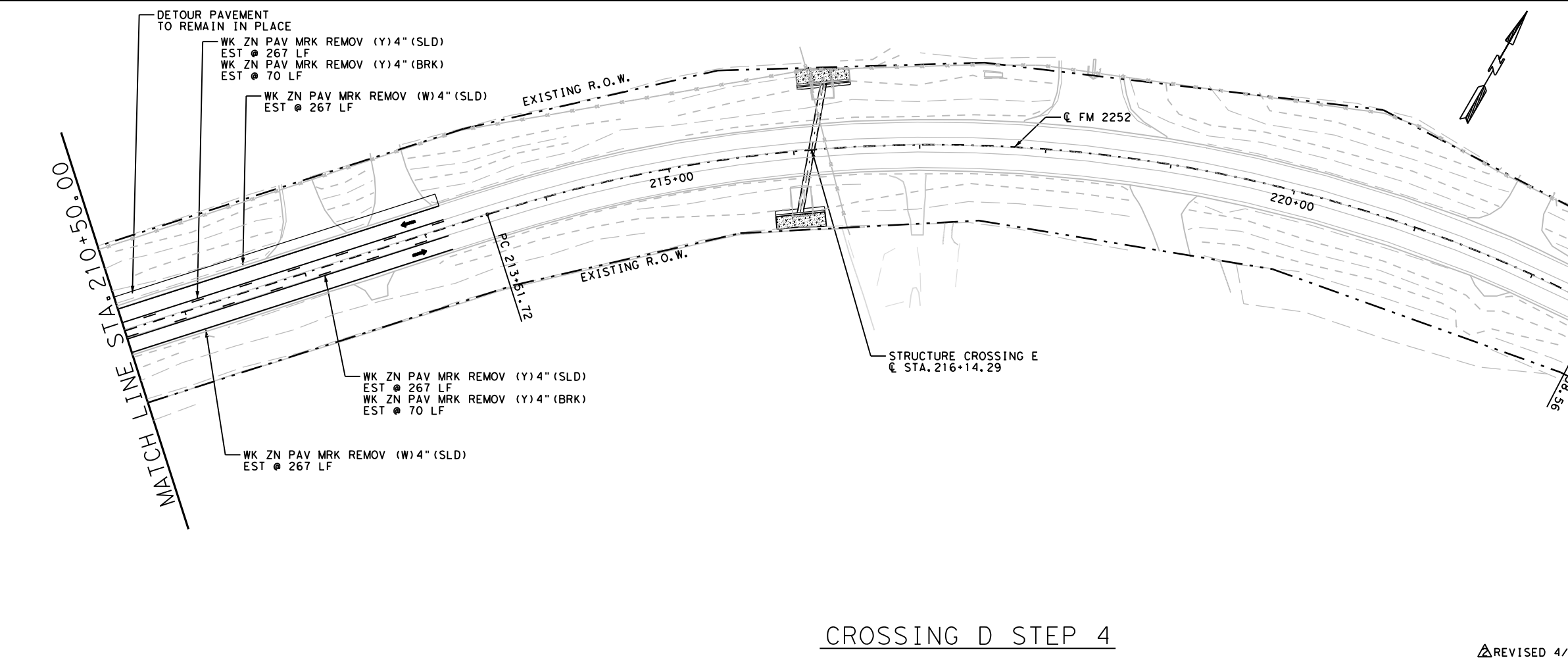
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- NOTES:
 1. SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 2. SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 3. CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 4. SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	0
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	280
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	80
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	2272
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	EA	179
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	2
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	2
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	340
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	2678
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	48
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	120
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	240
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS

STATE OF TEXAS
 CHRISTIE LYNN HILL
 90991
 LICENSED PROFESSIONAL ENGINEER
 Christie Lynn Hill, P.E.

04/20/2023
 FM 2252
 CROSSING D
 TRAFFIC CONTROL
 LAYOUTS

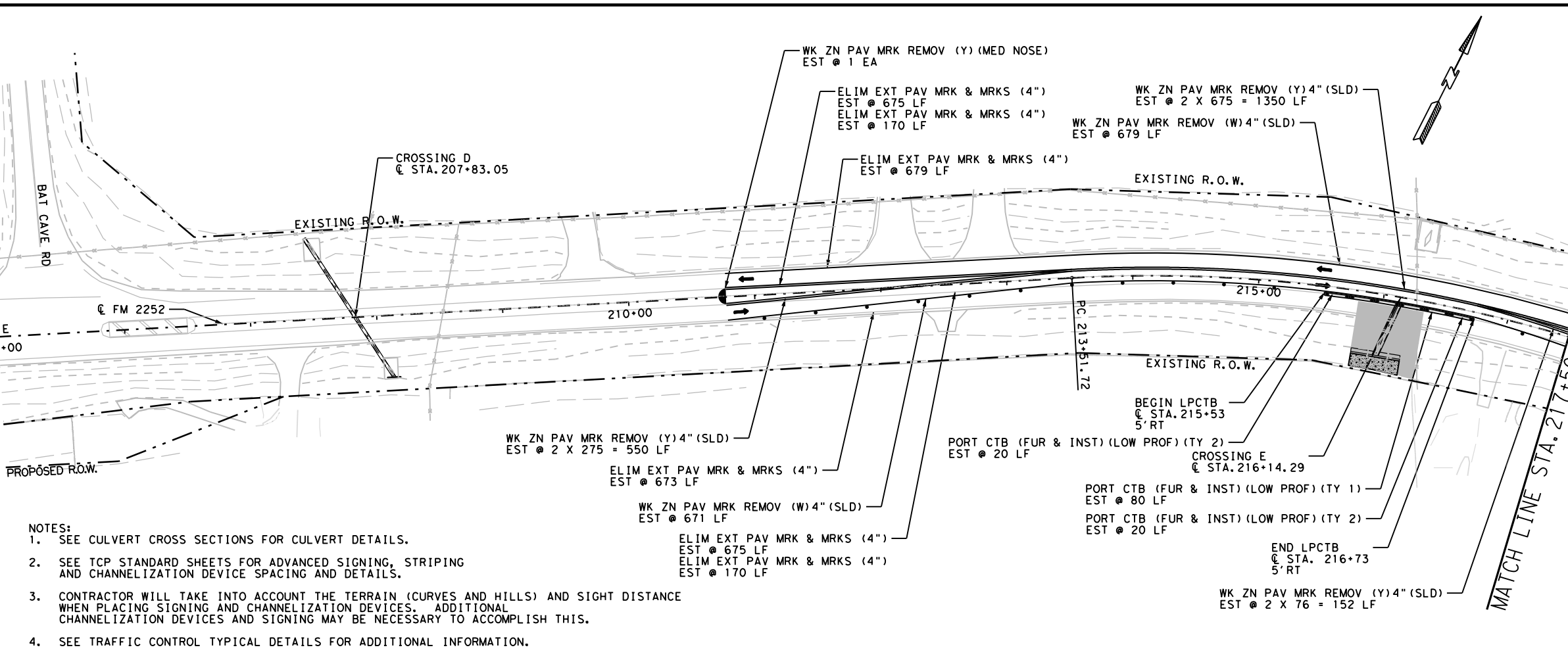
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 SHEET 4 OF 4

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		283

CROSSING D STEP 4

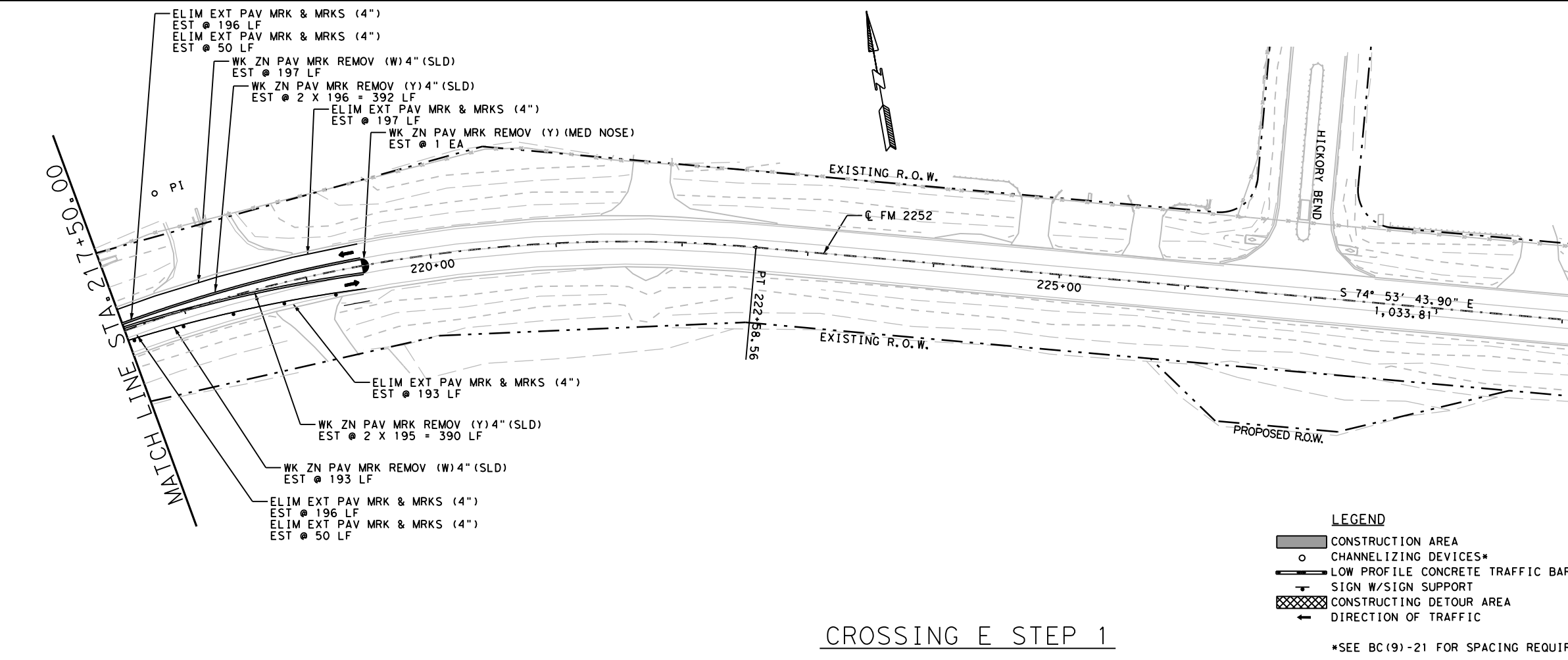
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QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	298
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	80
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	40
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	1740
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	LF	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	2834
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	85
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	140
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	3924
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0

- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING E
 TRAFFIC CONTROL
 LAYOUTS**

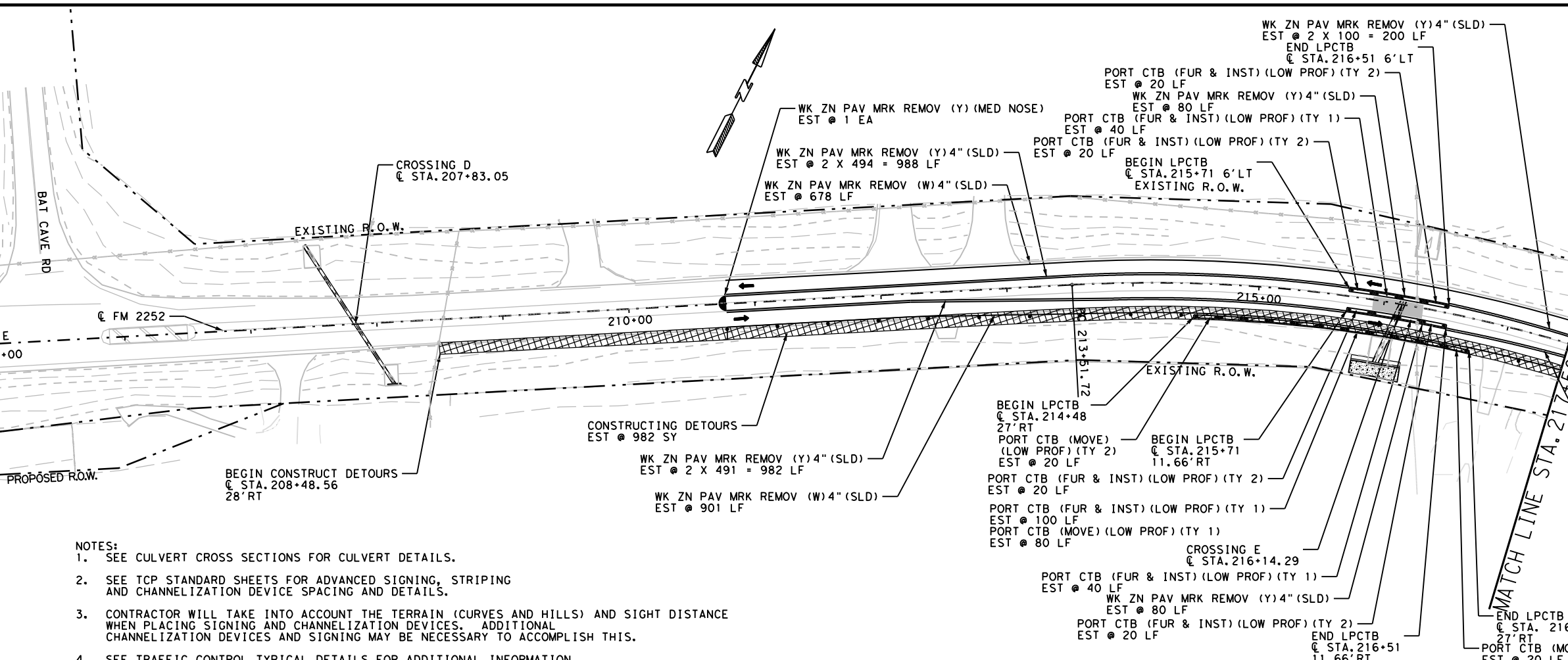


CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	285	

CROSSING E STEP 1

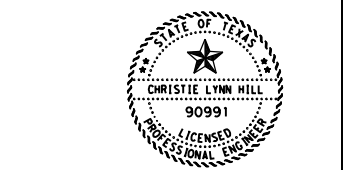
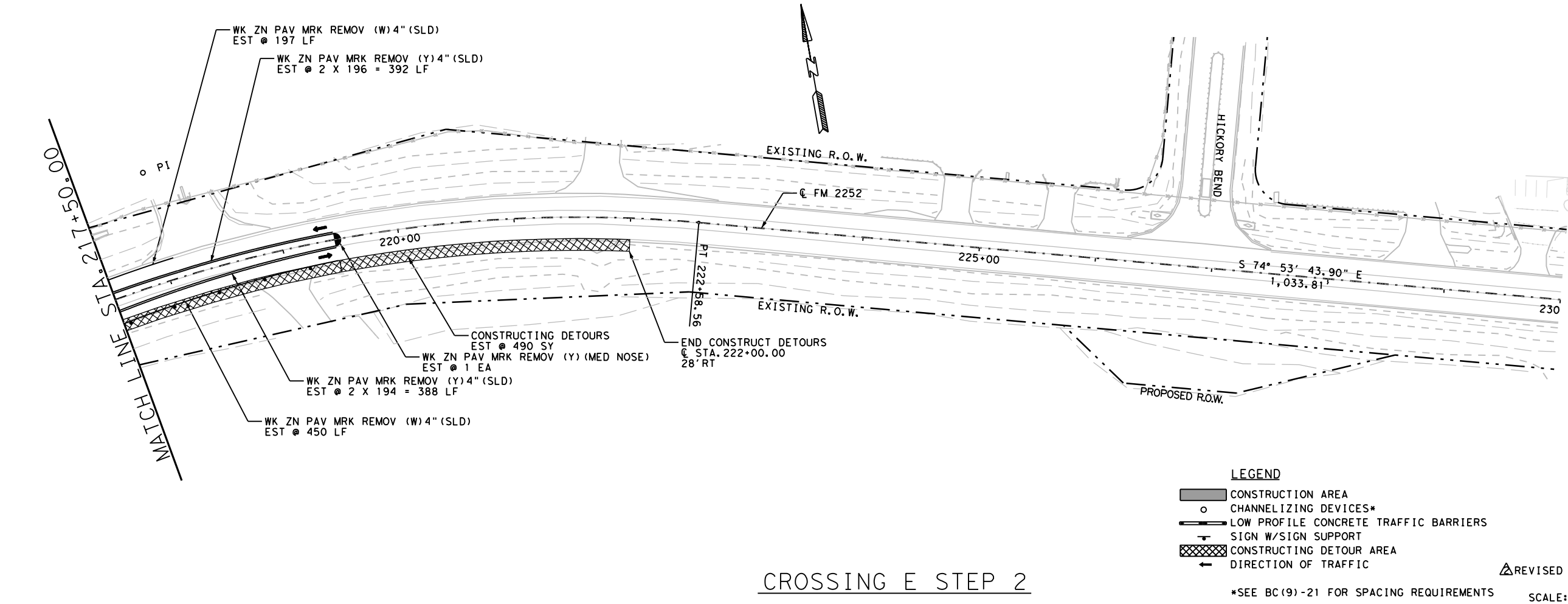
*SEE BC (9)-21 FOR SPACING REQUIREMENTS
 SCALE: 1" = 100'
 REVISED 4/19/2023

DATE: 04/19/2023 04:34 PM
 FILE: \\txdot\project\wiseonline.com\TXDOT14\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Set\2 - TCP\Structure Layouts\CrossingE\Step2.dwg



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	230
508-6001	CONSTRUCTING DETOURS	SY	1472
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	180
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	80
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	80
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	40
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	2226
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	3304
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	108
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	164
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	EA	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0

- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 CROSSING E
 TRAFFIC CONTROL
 LAYOUTS

LEGEND

	CONSTRUCTION AREA
	CHANNELIZING DEVICES*
	LOW PROFILE CONCRETE TRAFFIC BARRIERS
	SIGN W/SIGN SUPPORT
	CONSTRUCTING DETOUR AREA
	DIRECTION OF TRAFFIC

REVISED 4/19/2023



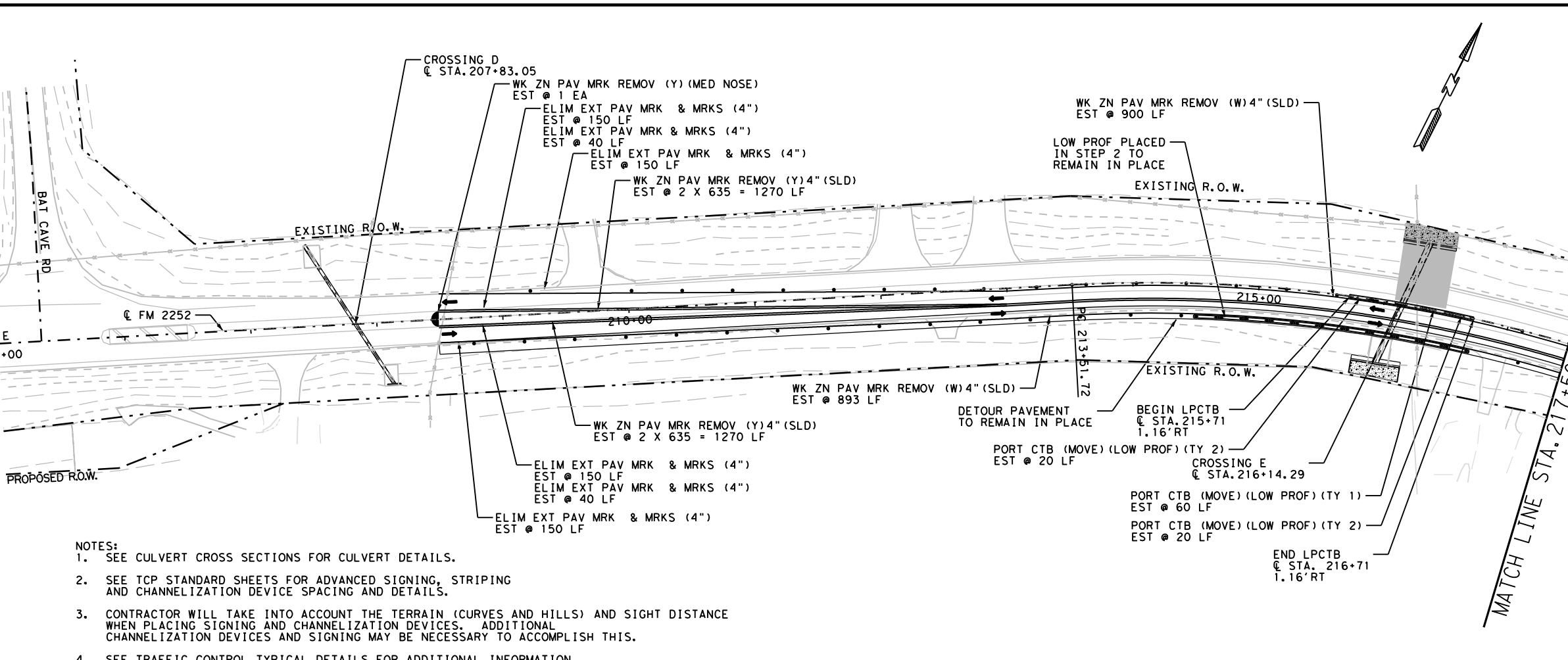
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	286	

CROSSING E STEP 2

*SEE BC (9)-21 FOR SPACING REQUIREMENTS

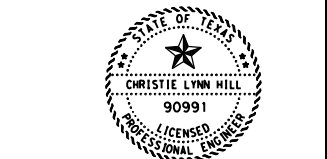
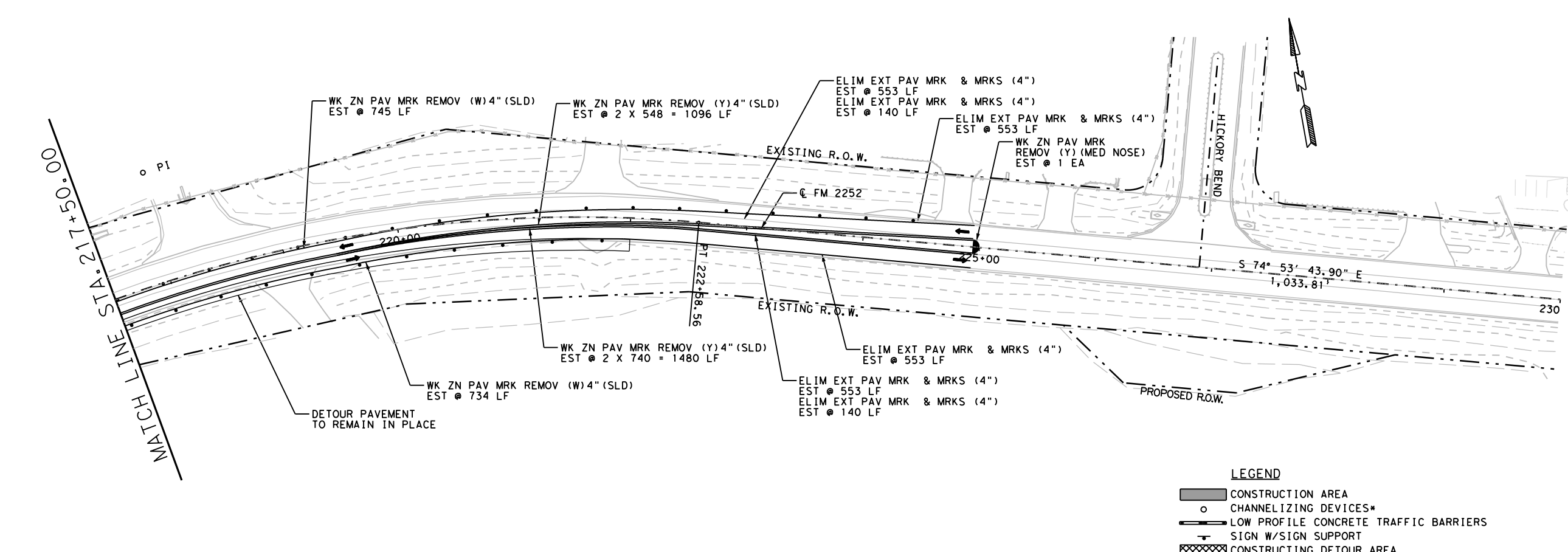
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- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	654
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	60
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	40
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	20
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	40
662-6063	WK ZN PAV MRK REMOV (W) 4\" (SLD)	LF	3272
662-6071	WK ZN PAV MRK REMOV (W) 8\" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4\" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4\" (SLD)	LF	5116
662-6102	WK ZN PAV MRK REMOV (Y) 24\" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	2
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	160
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	250
677-6001	ELIM EXT PAV MRK & MRKS (4\")	LF	3172
677-6003	ELIM EXT PAV MRK & MRKS (8\")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24\")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING E
 TRAFFIC CONTROL
 LAYOUTS**

- LEGEND**
- CONSTRUCTION AREA
 - CHANNELIZING DEVICES*
 - LOW PROFILE CONCRETE TRAFFIC BARRIERS
 - SIGN W/SIGN SUPPORT
 - CONSTRUCTING DETOUR AREA
 - DIRECTION OF TRAFFIC

REVISED 4/19/2023

CROSSING E STEP 3

*SEE BC (9)-21 FOR SPACING REQUIREMENTS

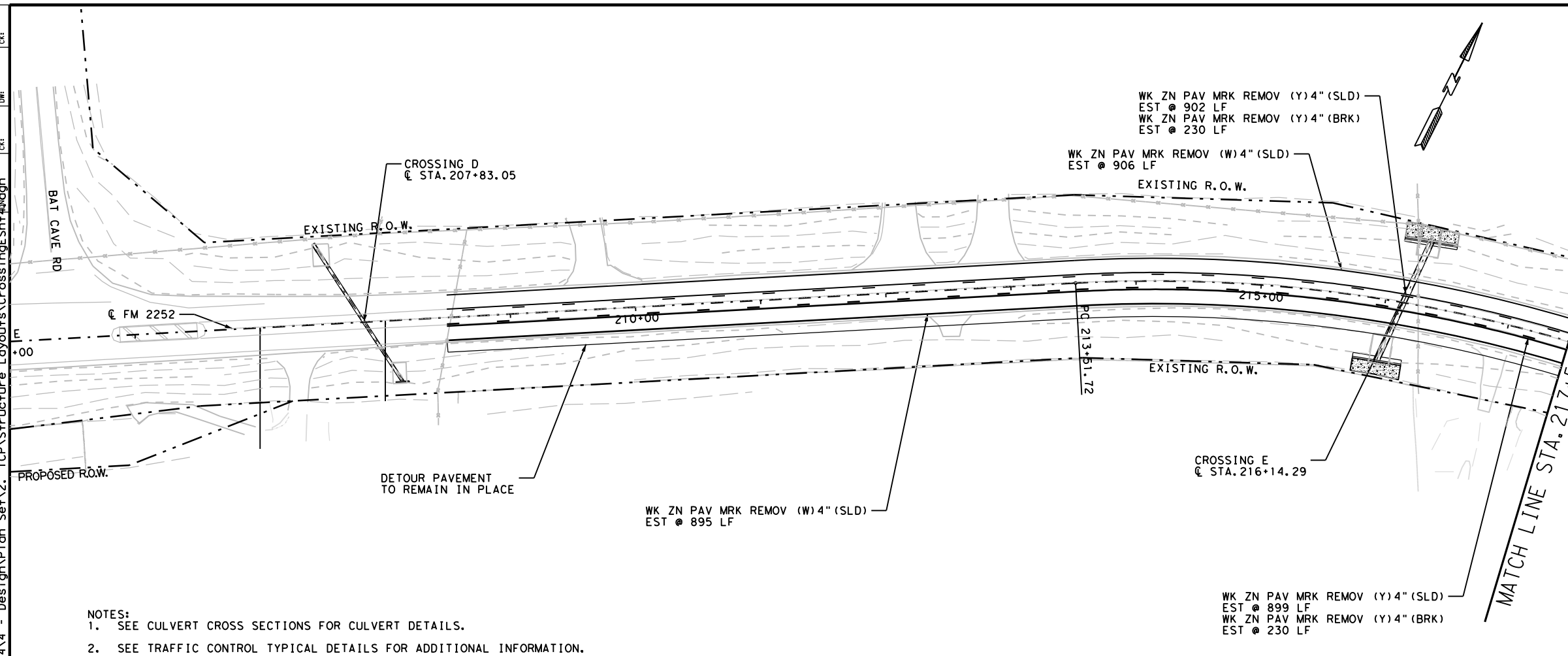
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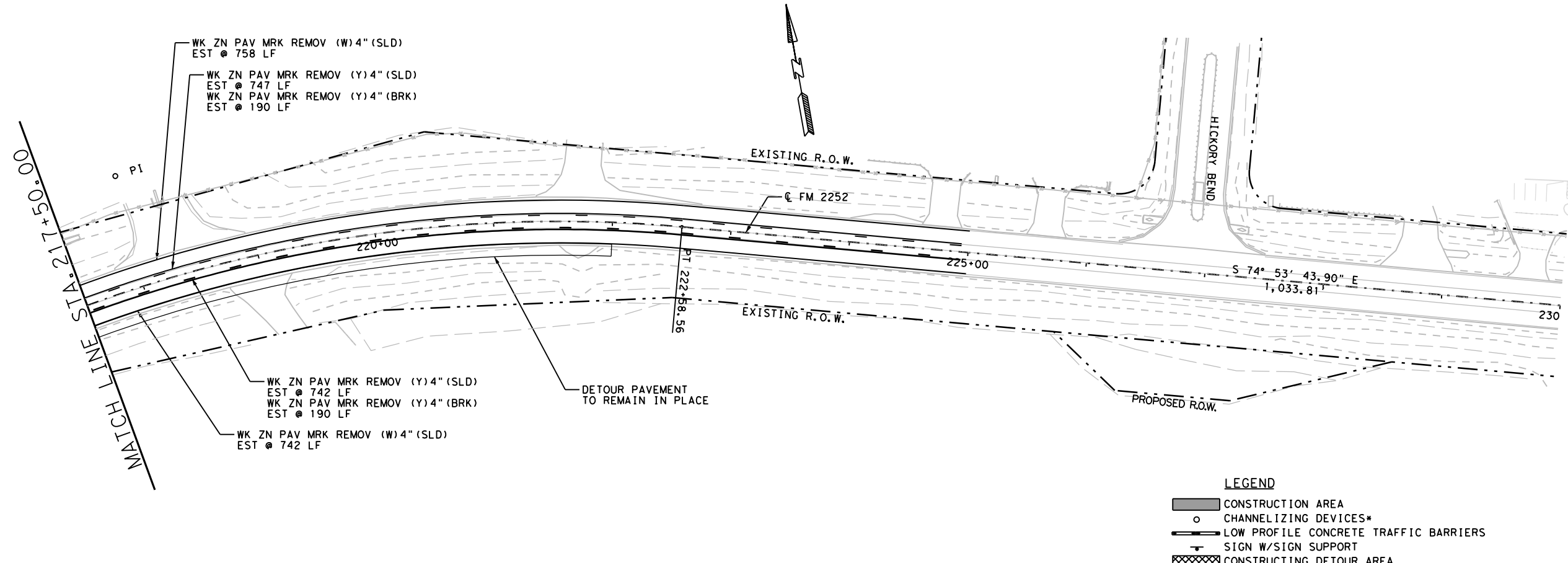
SHEET 3 OF 4			
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	287	

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 C:\Users\jason\OneDrive\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Set\2 - TCP\Structure Layouts\CrossingE\Step4.dwg

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	0
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	240
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	80
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	3301
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	840
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	3290
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	0
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	161
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	412
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0

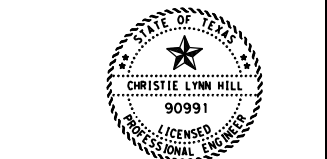


- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

	CONSTRUCTION AREA
	CHANNELIZING DEVICES*
	LOW PROFILE CONCRETE TRAFFIC BARRIERS
	SIGN W/SIGN SUPPORT
	CONSTRUCTING DETOUR AREA
	DIRECTION OF TRAFFIC



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING E
 TRAFFIC CONTROL
 LAYOUTS**



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	288	

CROSSING E STEP 4

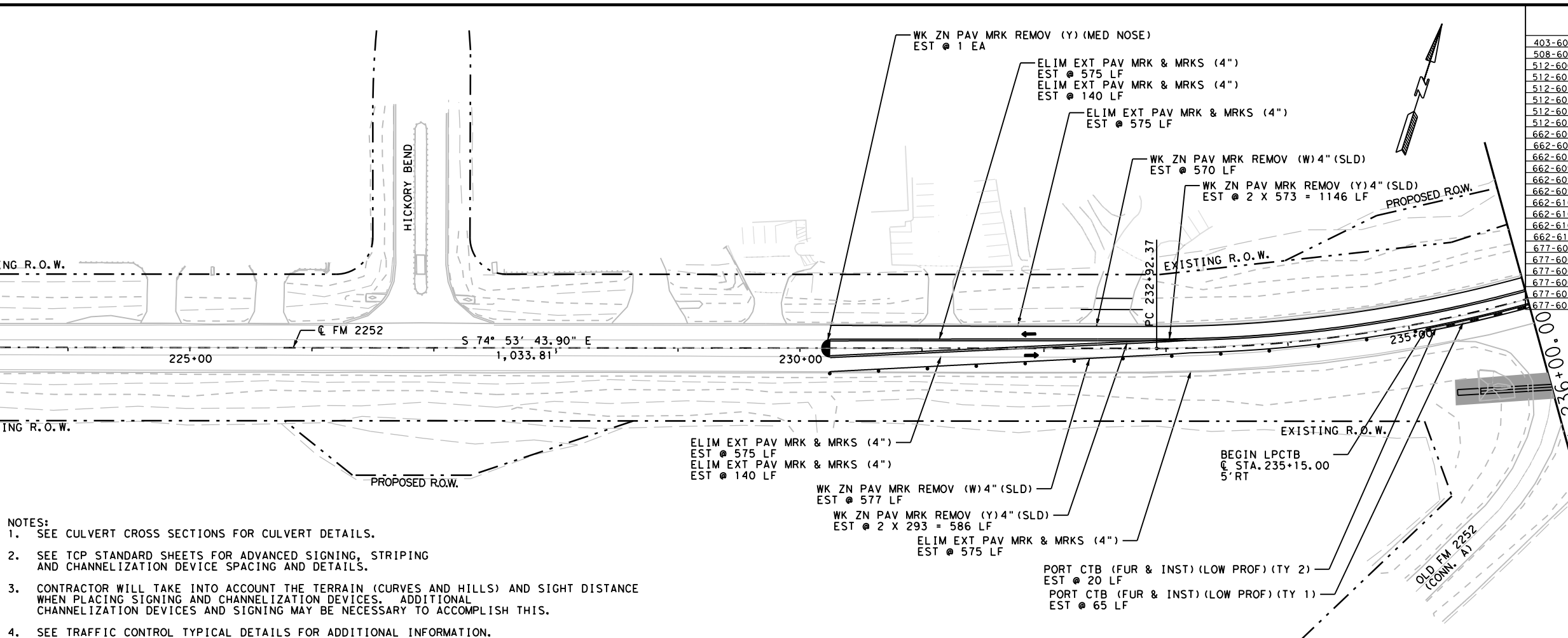
*SEE BC (9)-21 FOR SPACING REQUIREMENTS

REVISED 4/19/2023

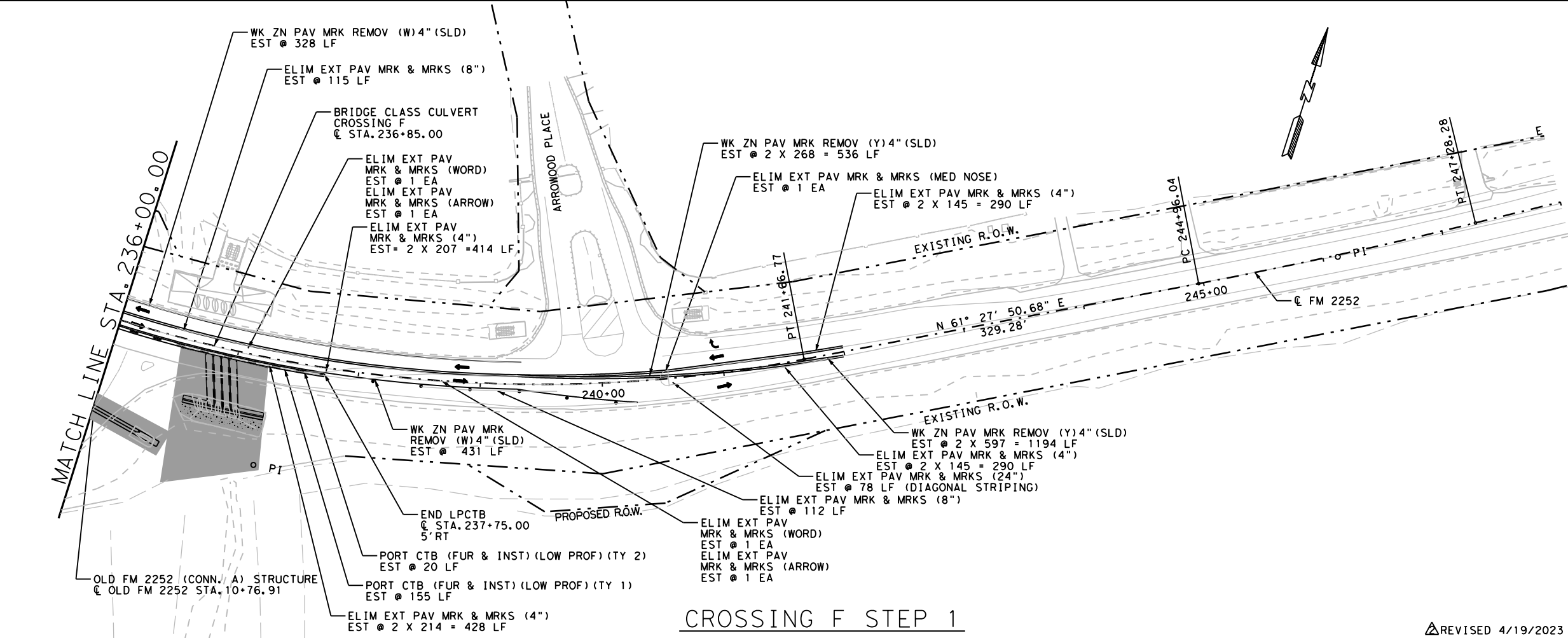
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QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	948
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	220
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	40
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	0
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	1906
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	3462
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	1
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	93
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	168
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	4002
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	227
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	78
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	2
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	1



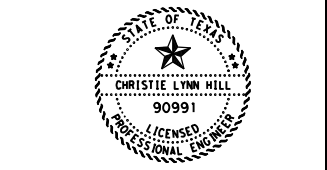
- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING F
 TRAFFIC CONTROL
 LAYOUTS**



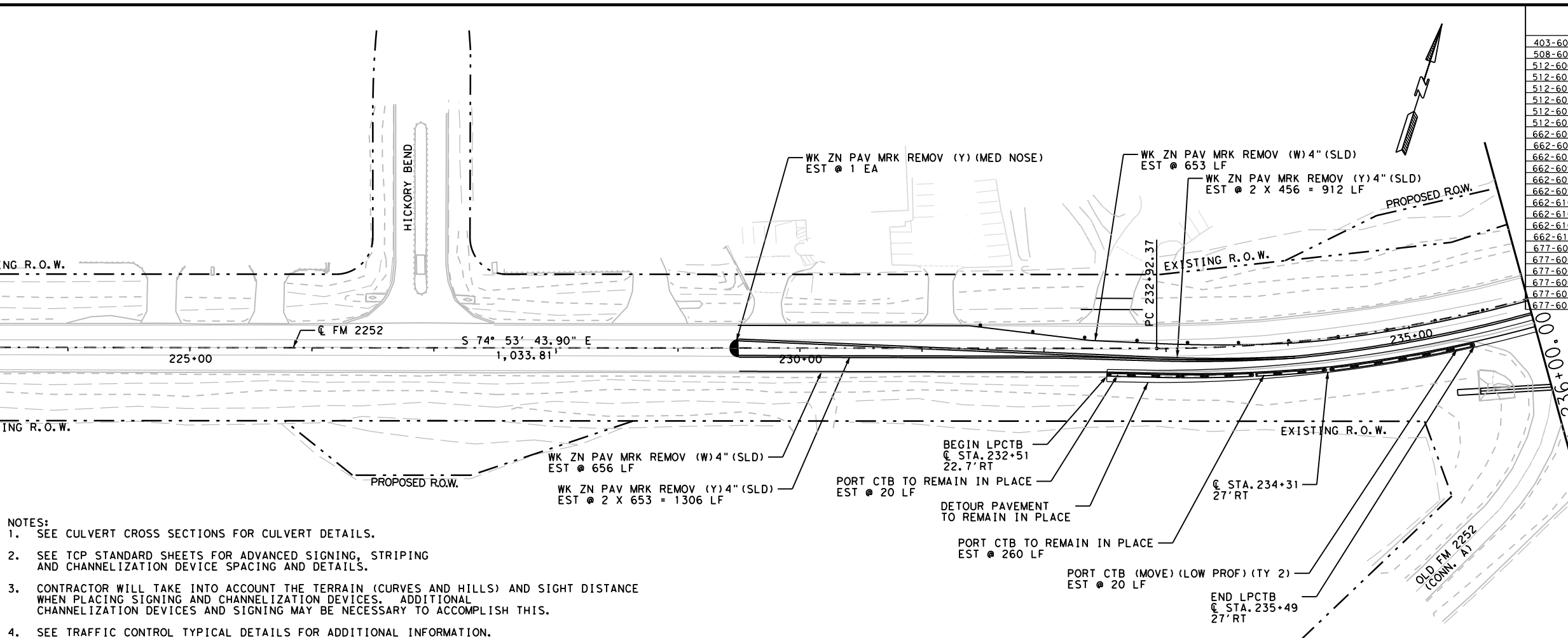
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	290

REVISED 4/19/2023 SCALE: 1"=100'

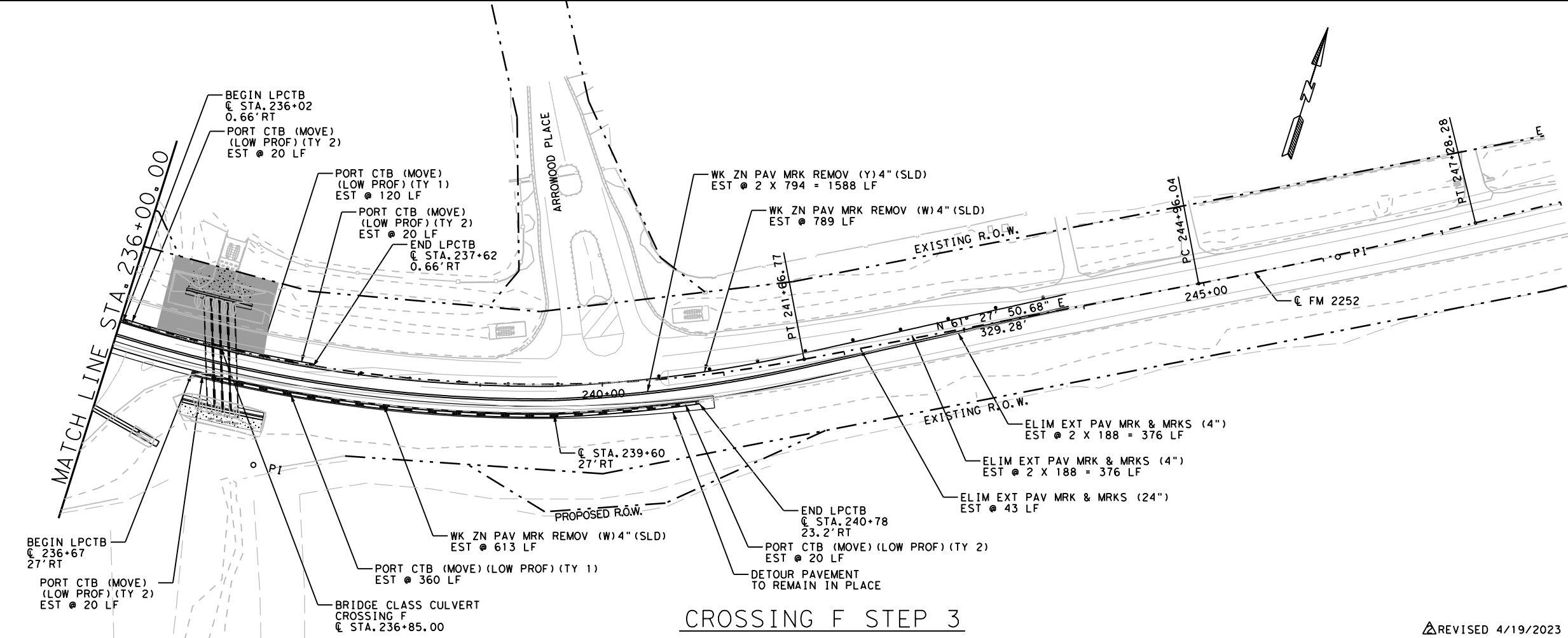
CROSSING F STEP 1

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 DWG: 04/19/2023 04:54 PM
 CHK: 04/19/2023 04:54 PM

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	656
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	480
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	100
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	180
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	0
662-6063	WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	2711
662-6071	WK ZN PAV MRK REMOV (W) 8" (SLD)	EA	0
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	0
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	0
662-6093	WK ZN PAV MRK REMOV (Y) 4" (BRK)	LF	0
662-6095	WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	3806
662-6102	WK ZN PAV MRK REMOV (Y) 24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	1
662-6109	WK ZN PAV MRK SHT TERM (TAB) TY W	EA	132
662-6111	WK ZN PAV MRK SHT TERM (TAB) TY Y-2	EA	186
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	752
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	43
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



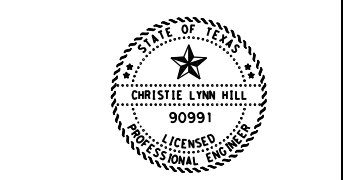
- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
CROSSING F
TRAFFIC CONTROL
LAYOUTS**



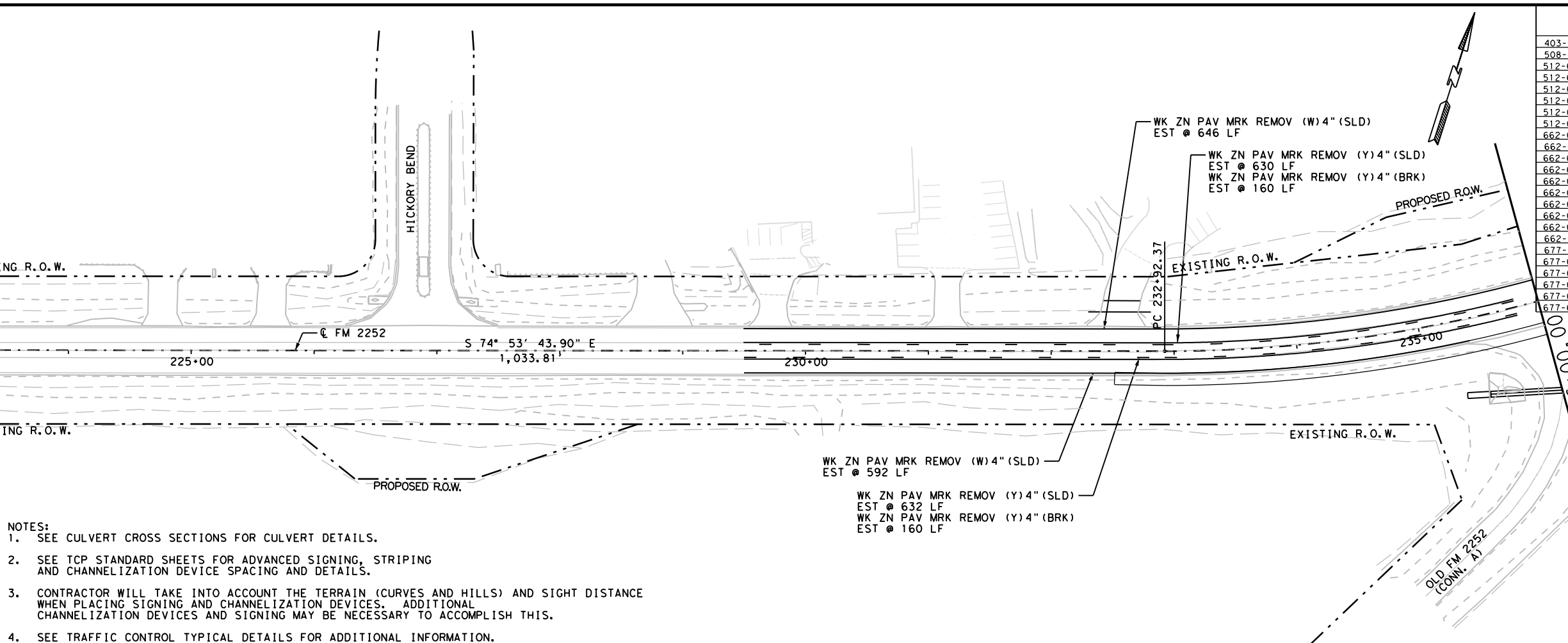
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	292

REVISED 4/19/2023 SCALE: 1"=100'

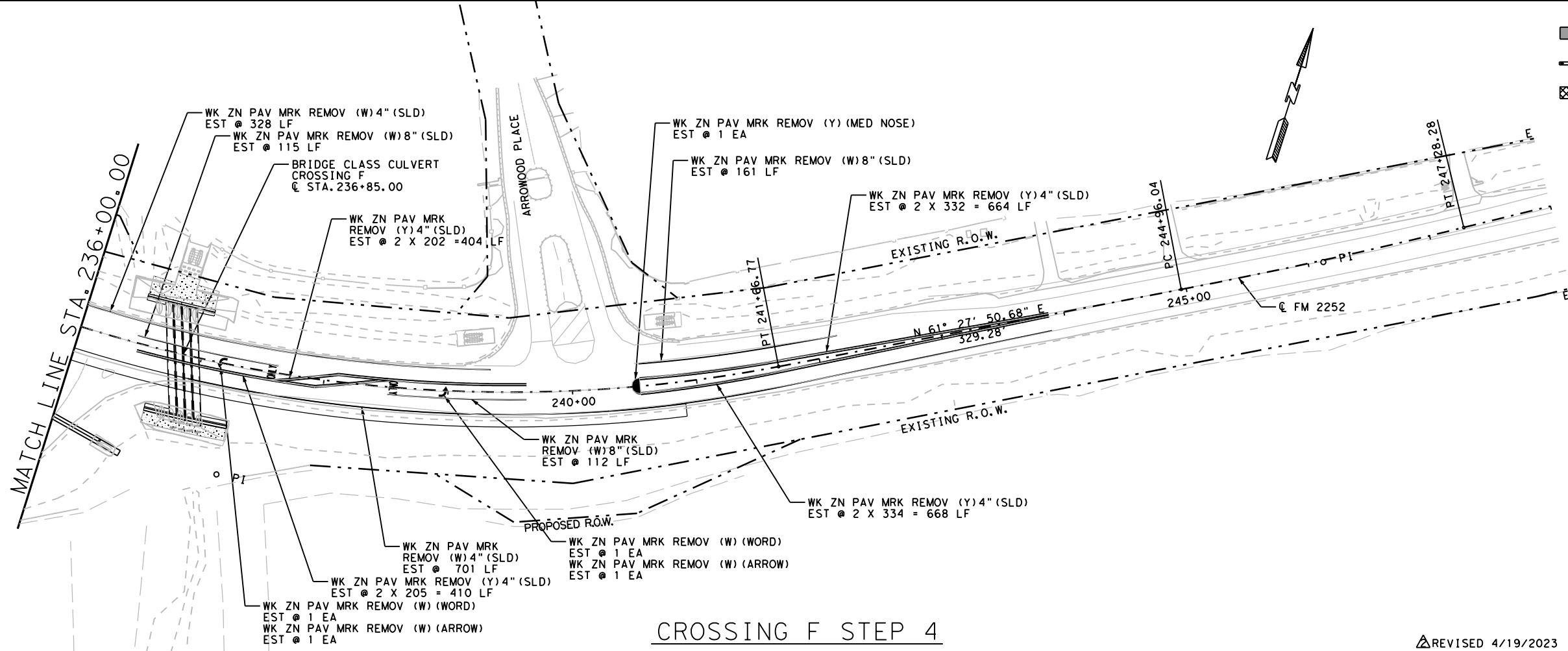
CROSSING F STEP 3

DATE: 04/19/2023 04:55 PM
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QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
403-6001	TEMPORARY SPL SHORING	SF	0
508-6001	CONSTRUCTING DETOURS	SY	0
512-6009	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	LF	0
512-6010	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	LF	0
512-6033	PORT CTB (MOVE) (LOW PROF) (TY 1)	LF	0
512-6034	PORT CTB (MOVE) (LOW PROF) (TY 2)	LF	0
512-6057	PORT CTB (REMOVE) (LOW PROF) (TY 1)	LF	740
512-6058	PORT CTB (REMOVE) (LOW PROF) (TY 2)	LF	120
662-6063	WK ZN PAV MRK REMOV (W)4" (SLD)	LF	2267
662-6071	WK ZN PAV MRK REMOV (W)8" (SLD)	EA	388
662-6080	WK ZN PAV MRK REMOV (W) (ARROW)	EA	2
662-6090	WK ZN PAV MRK REMOV (W) (WORD)	EA	2
662-6093	WK ZN PAV MRK REMOV (Y)4" (BRK)	LF	320
662-6095	WK ZN PAV MRK REMOV (Y)4" (SLD)	LF	3408
662-6102	WK ZN PAV MRK REMOV (Y)24" (SLD)	LF	0
662-6108	WK ZN PAV MRK REMOV (Y) (MED NOSE)	EA	1
662-6109	WK ZN PAV MRK SHT TERM (TAB)TY W	EA	130
662-6111	WK ZN PAV MRK SHT TERM (TAB)TY Y-2	EA	261
677-6001	ELIM EXT PAV MRK & MRKS (4")	LF	0
677-6003	ELIM EXT PAV MRK & MRKS (8")	LF	0
677-6007	ELIM EXT PAV MRK & MRKS (24")	LF	0
677-6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	0
677-6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	0
677-6020	ELIM EXT PAV MRK & MRKS (MED NOSE)	EA	0



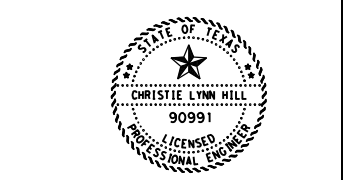
- NOTES:
- SEE CULVERT CROSS SECTIONS FOR CULVERT DETAILS.
 - SEE TCP STANDARD SHEETS FOR ADVANCED SIGNING, STRIPING AND CHANNELIZATION DEVICE SPACING AND DETAILS.
 - CONTRACTOR WILL TAKE INTO ACCOUNT THE TERRAIN (CURVES AND HILLS) AND SIGHT DISTANCE WHEN PLACING SIGNING AND CHANNELIZATION DEVICES. ADDITIONAL CHANNELIZATION DEVICES AND SIGNING MAY BE NECESSARY TO ACCOMPLISH THIS.
 - SEE TRAFFIC CONTROL TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



LEGEND

- CONSTRUCTION AREA
- CHANNELIZING DEVICES*
- LOW PROFILE CONCRETE TRAFFIC BARRIERS
- + SIGN W/SIGN SUPPORT
- CONSTRUCTING DETOUR AREA
- DIRECTION OF TRAFFIC

*SEE BC(9)-21 FOR SPACING REQUIREMENTS



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 CROSSING F
 TRAFFIC CONTROL
 LAYOUTS**



CROSSING F STEP 4

REVISED 4/19/2023 SCALE: 1"=100'

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	293

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

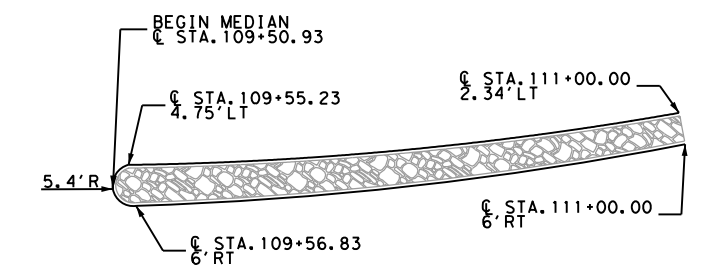
	SP MIXES SP-D SAC-B PG70-22
	SY
FM 2252	908

QUANTITY SUMMARY CSJ 1433-01-028

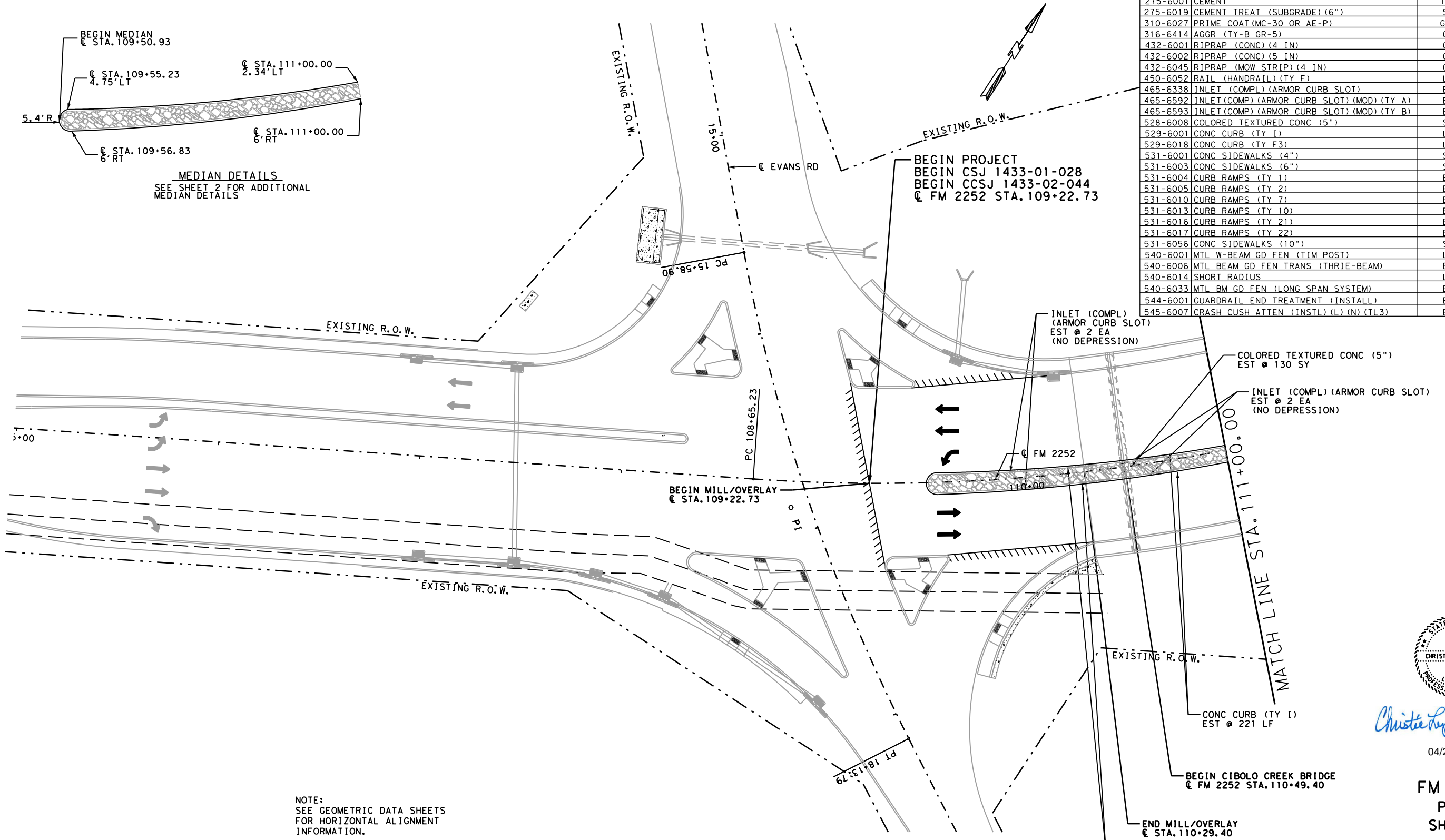
ITEM	UNIT	TOTAL
3076-6066 TACK COAT	GAL	0
3085-6001 UNDERSEAL COURSE	GAL	0
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-01-028

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	0
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	0
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	0
316-6414 AGGR (TY-B GR-5)	CY	0
432-6001 RIPRAP (CONC) (4 IN)	CY	0
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	6
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	130
529-6001 CONC CURB (TY 1)	LF	221
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	0
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTEN (INSTR) (L) (N) (TL3)	EA	0



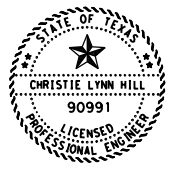
MEDIAN DETAILS
 SEE SHEET 2 FOR ADDITIONAL
 MEDIAN DETAILS



NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

LEGEND
 COLORED TEXTURED CONCRETE



Christie Lynn Hill, P.E.

04/25/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	413	

REVISED 4/19/2023 SCALE: 1" = 50'

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QUANTITY SUMMARY CSJ 1433-01-028 CONT.

ITEM	UNIT	TOTAL
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	0
3085-6001 UNDERSEAL COURSE	GAL	0
5001-6002 GEOGRID BASE REINFORCEMENT (TY I)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044 CONT.

ITEM	UNIT	TOTAL
MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
GUARDRAIL END TREATMENT (INSTALL)	EA	0
CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0
TACK COAT	GAL	49
UNDERSEAL COURSE	GAL	97
GEOGRID BASE REINFORCEMENT (TY I)	SY	86

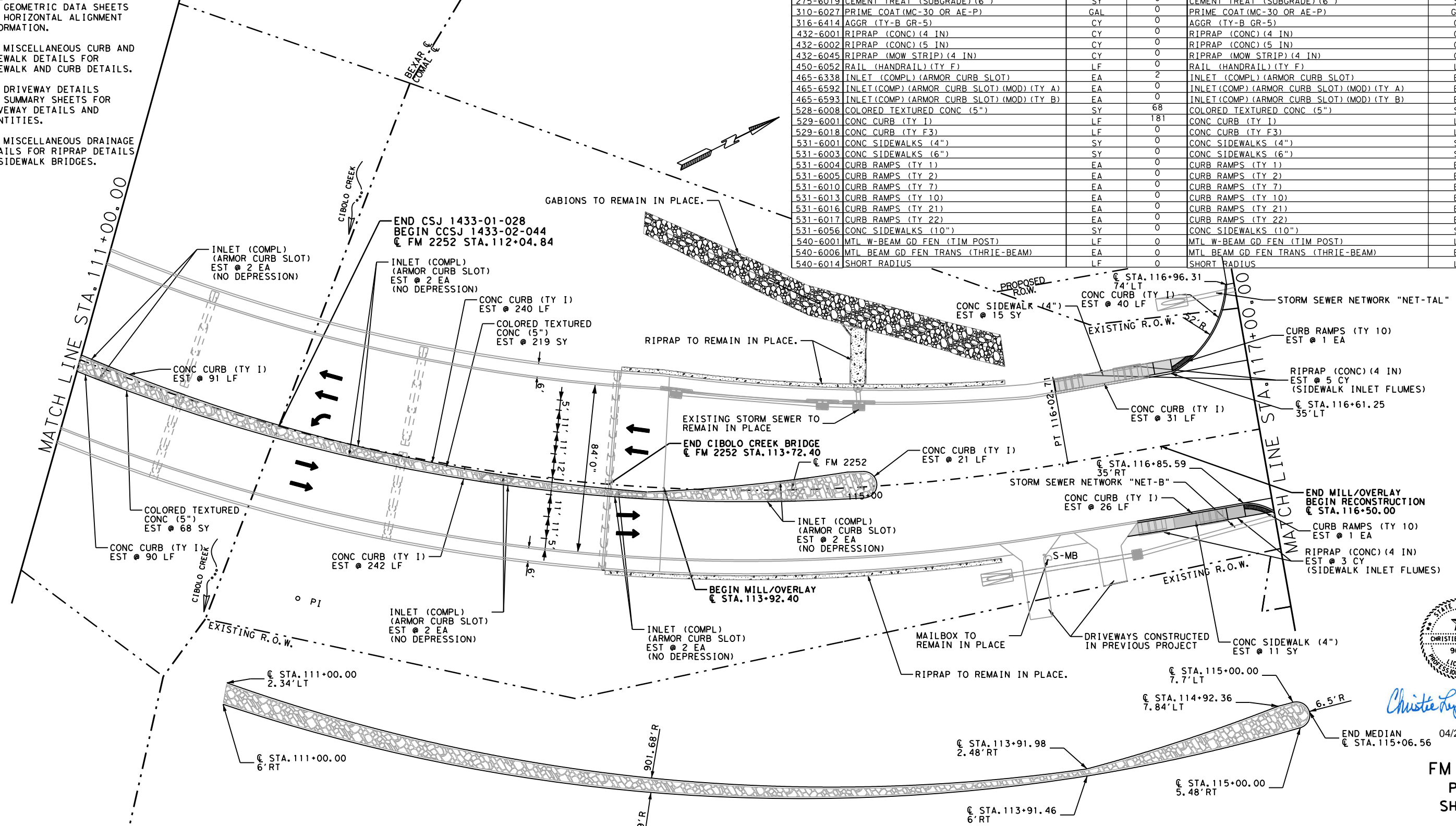
QUANTITY SUMMARY CSJ 1433-01-028

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	0
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	0
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016 LIME (HYD, COM, OR QK) (SLURRY)	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	0
316-6414 AGGR (TY-B GR-5)	CY	0
432-6001 RIPRAP (CONC) (4 IN)	CY	0
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	2
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	68
529-6001 CONC CURB (TY I)	LF	181
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	0
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
EXCAVATION (ROADWAY)	CY	200
EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	345
FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	85
LIME (HYD, COM, OR QK) (SLURRY)	TON	1
LIME TRT (SUBGRADE) (6")	SY	86
CEMENT	TON	0
CEMENT TREAT (SUBGRADE) (6")	SY	0
PRIME COAT (MC-30 OR AE-P)	GAL	97
AGGR (TY-B GR-5)	CY	3
RIPRAP (CONC) (4 IN)	CY	8
RIPRAP (CONC) (5 IN)	CY	0
RIPRAP (MOW STRIP) (4 IN)	CY	0
RAIL (HANDRAIL) (TY F)	LF	0
INLET (COMPL) (ARMOR CURB SLOT)	EA	8
INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
COLORED TEXTURED CONC (5")	SY	219
CONC CURB (TY I)	LF	600
CONC CURB (TY F3)	LF	0
CONC SIDEWALKS (4")	SY	26
CONC SIDEWALKS (6")	SY	0
CURB RAMPS (TY 1)	EA	0
CURB RAMPS (TY 2)	EA	0
CURB RAMPS (TY 7)	EA	0
CURB RAMPS (TY 10)	EA	2
CURB RAMPS (TY 21)	EA	0
CURB RAMPS (TY 22)	EA	0
CONC SIDEWALKS (10")	SY	0
MTL W-BEAM GD FEN (TIM POST)	LF	0
MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
SHORT RADIUS	LF	0

NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES.



LEGEND

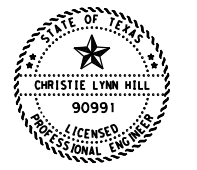
	CONC RIPRAP
	COLORED TEXTURED CONCRETE
	S-MB SINGLE MAILBOX
	D-MB DOUBLE MAILBOX
	M-MB MULTIPLE MAILBOX

MEDIAN DETAILS
 SEE PLAN SHEET 1 FOR ADDITIONAL MEDIAN DETAILS

	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
TURNAROUND	80	80	69
FM 2252	406	406	2347

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

REVISED 4/19/2023
 SCALE: 1" = 50'



Christie Lynn Hill, P.E.

**FM 2252
 PLAN
 SHEETS**

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CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	414	

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

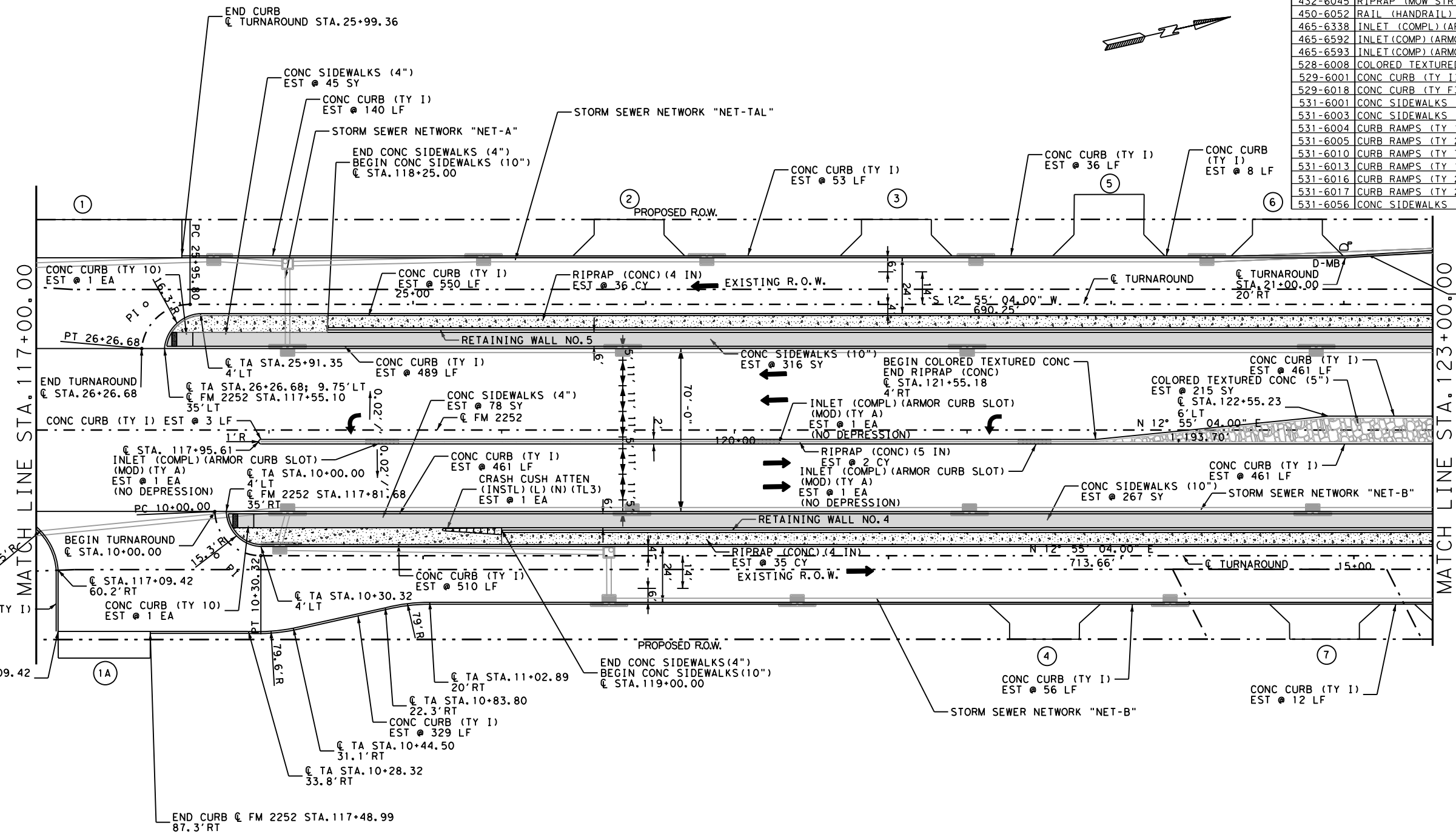
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
TURNAROUND	3976	3976	3589
FM 2252	4867	4867	4449

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNTY	TOTAL
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF 0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA 1
3076-6066	TACK COAT	GAL 885
3085-6001	UNDERSEAL COURSE	GAL 1769
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 4362

QUANTITY SUMMARY CSJ 1433-02-044

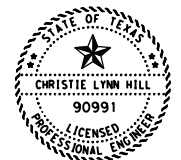
ITEM	UNTY	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 3072
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 13502
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 1523
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 80
260-6079	LIME TRT (SUBGRADE) (6")	SY 4362
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 1768
316-6414	AGGR (TY-B GR-5)	CY 63
432-6001	RIPRAP (CONC) (4 IN)	CY 71
432-6002	RIPRAP (CONC) (5 IN)	CY 2
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 0
450-6052	RAIL (HANDRAIL) (TY F)	LF 0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 0
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 3
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 215
529-6001	CONC CURB (TY I)	LF 3654
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 123
531-6003	CONC SIDEWALKS (6")	SY 0
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 2
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 583



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE RETAINING WALL LAYOUTS FOR RETAINING WALL DETAILS.

LEGEND

- ① DRIVEWAY NUMBER
- [Pattern] CONC RIPRAP
- [Pattern] COLORED TEXTURED CONCRETE
- [Symbol] S-MB SINGLE MAILBOX
- [Symbol] D-MB DOUBLE MAILBOX
- [Symbol] M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	415	

REVISED 4/19/2023 SCALE: 1"=50'

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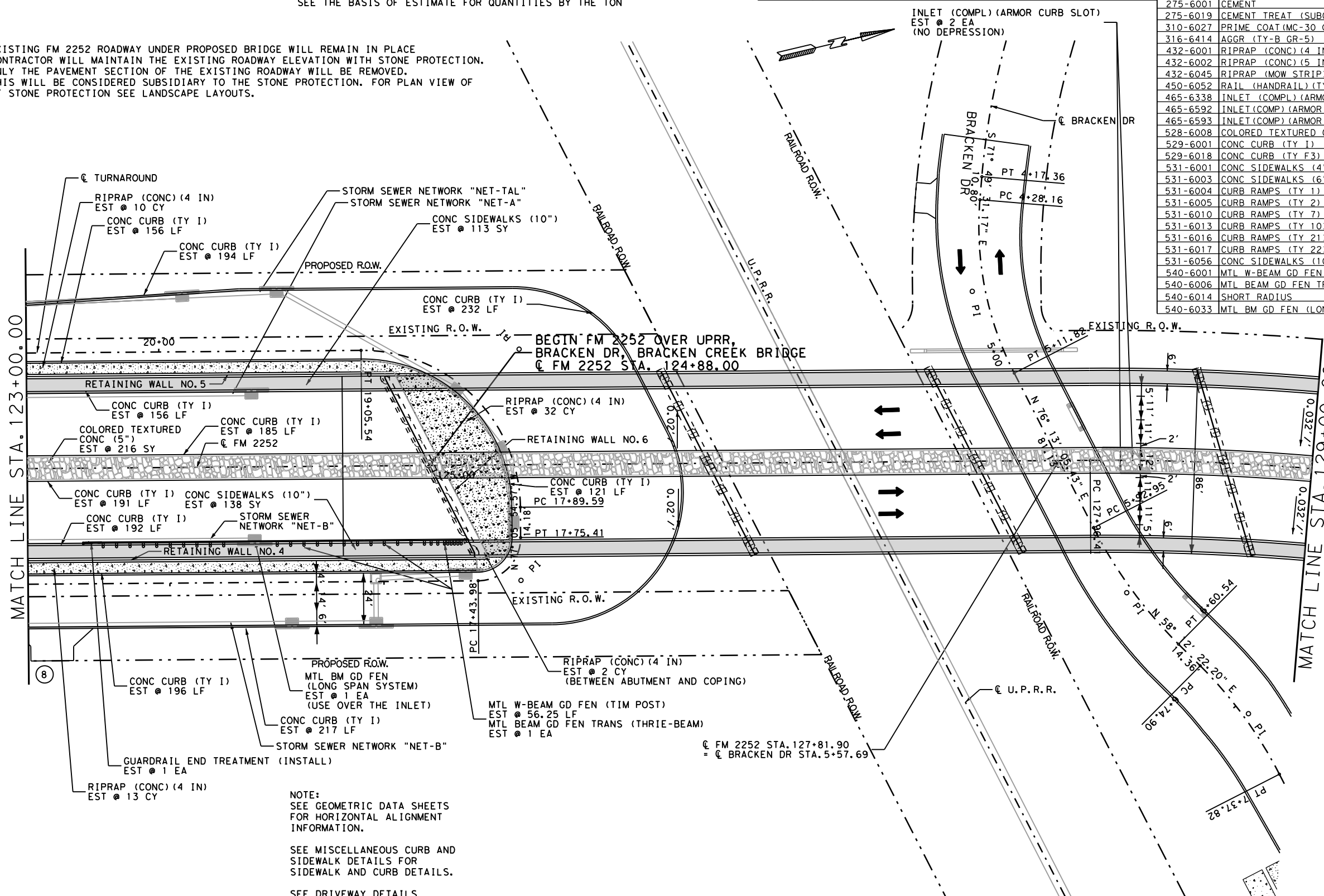
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
TURNAROUND	2787	2787	2584
FM 2252	1195	1195	927

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	1
545-6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	398
3085-6001	UNDERSEAL COURSE	GAL	797
6001-6002	GEOGRID BASE REINFORCEMENT (TY I)	SY	2990

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	1009
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	12146
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	685
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	54
260-6079	LIME TRT (SUBGRADE) (6")	SY	2990
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	797
316-6414	AGGR (TY-B GR-5)	CY	28
432-6001	RIPRAP (CONC) (4 IN)	CY	57
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	2
465-6592	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	216
529-6001	CONC CURB (TY 1)	LF	1840
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	0
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	251
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	56.25
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	1

NOTE: EXISTING FM 2252 ROADWAY UNDER PROPOSED BRIDGE WILL REMAIN IN PLACE
 CONTRACTOR WILL MAINTAIN THE EXISTING ROADWAY ELEVATION WITH STONE PROTECTION.
 ONLY THE PAVEMENT SECTION OF THE EXISTING ROADWAY WILL BE REMOVED.
 THIS WILL BE CONSIDERED SUBSIDIARY TO THE STONE PROTECTION. FOR PLAN VIEW OF
 OF STONE PROTECTION SEE LANDSCAPE LAYOUTS.



NOTE: SEE BRACKEN DR PLAN SHEETS
 FOR BRACKEN DR QUANTITIES.
 SEE BRIDGE SHEETS FOR
 ADDITIONAL QUANTITIES.

NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
 SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.
 SEE BRIDGE ESTIMATED QUANTITIES FOR
 ADDITIONAL QUANTITIES.
 SEE RETAINING WALL LAYOUTS FOR
 RETAINING WALL DETAILS.
 SEE PLAN SHEET 4A FOR TURNAROUND DETAILS.

- LEGEND**
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
 - [Symbol] D-MB DOUBLE MAILBOX
 - [Symbol] M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**

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CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		416

REVISED 4/19/2023 SCALE: 1"=50'

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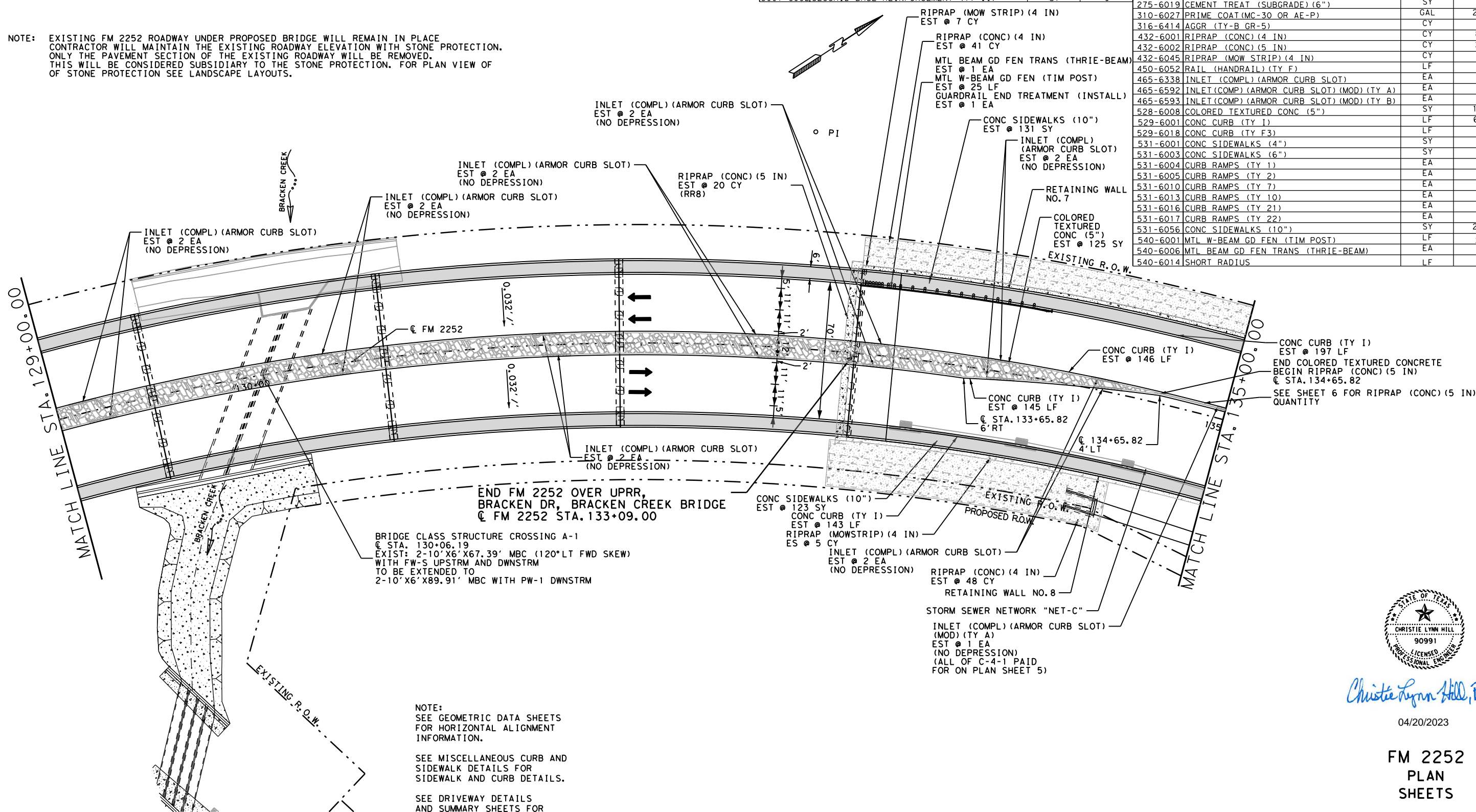
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1387	1387	1195

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

NOTE: EXISTING FM 2252 ROADWAY UNDER PROPOSED BRIDGE WILL REMAIN IN PLACE
CONTRACTOR WILL MAINTAIN THE EXISTING ROADWAY ELEVATION WITH STONE PROTECTION.
ONLY THE PAVEMENT SECTION OF THE EXISTING ROADWAY WILL BE REMOVED.
THIS WILL BE CONSIDERED SUBSIDIARY TO THE STONE PROTECTION. FOR PLAN VIEW OF
OF STONE PROTECTION SEE LANDSCAPE LAYOUTS.

ITEM	UNITY	TOTAL
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 1
545-6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 139
3085-6001	UNDERSEAL COURSE	GAL 277
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 0

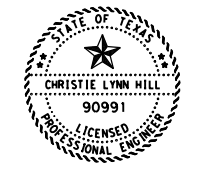
ITEM	UNITY	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 441
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 5299
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 236
260-6016	LIME (HYD, COM, OR QK) (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 277
316-6414	AGGR (TY-B GR-5)	CY 10
432-6001	RIPRAP (CONC) (4 IN)	CY 89
432-6002	RIPRAP (CONC) (5 IN)	CY 20
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 12
450-6052	RAIL (HANDRAIL) (TY F)	LF 0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 14
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 1
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 125
529-6001	CONC CURB (TY I)	LF 631
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 0
531-6003	CONC SIDEWALKS (6")	SY 0
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 254
540-6001	MTL W-BEAM GD FEN (TIM POST)	EA 25
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 1
540-6014	SHORT RADIUS	LF 0



BRIDGE CLASS STRUCTURE CROSSING A-1
 @ STA. 130+06.19
 EXIST: 2-10' X 6' X 67.39' MBC (120° LT FWD SKEW)
 WITH FW-S UPSTRM AND DWNSTRM
 TO BE EXTENDED TO
 2-10' X 6' X 89.91' MBC WITH PW-1 DWNSTRM

- NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
- SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
- SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.
- SEE RETAINING WALL LAYOUTS
 FOR RETAINING WALL QUANTITIES AND RIPRAP DETAILS.
- SEE BRIDGE ESTIMATED QUANTITIES
 FOR ADDITIONAL QUANTITIES.
- SEE MISCELLANEOUS ROADWAY DETAILS
 FOR RIPRAP DETAILS

- LEGEND
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	418	

REVISED 4/19/2023 SCALE: 1"=50'

DATE: 04/19/2023 10:41 AM
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

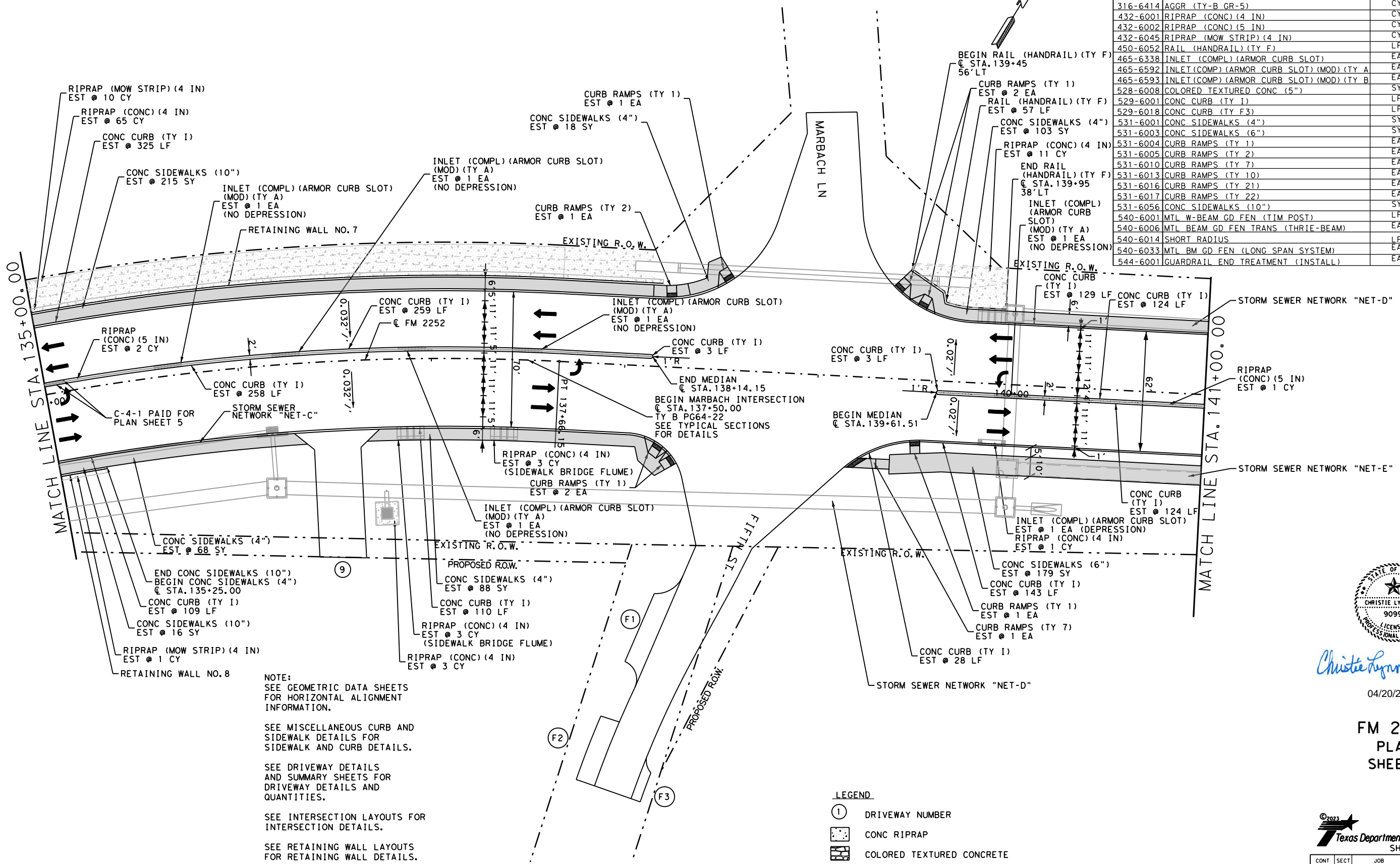
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252 (STA. 135+00 TO 137+50)	2028	2028	1890
MARBACH INTER (STA. 137+50 TO STA. 141+00)	5342	2651	2489

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
545-6007 CRASH CUSH ATTN (INSTR) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	737
3085-6001 UNDERSEAL COURSE	GAL	935
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

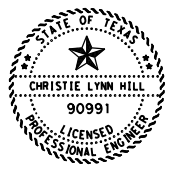
QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	1821
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	3673
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL PO	CY	345
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	405
316-6414 AGGR (TY-B GR-5)	CY	14
432-6001 RIPRAP (CONC) (4 IN)	CY	86
432-6002 RIPRAP (CONC) (5 IN)	CY	3
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	11
450-6052 RAIL (HANDRAIL) (TY F)	EA	57
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	1
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	5
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	0
529-6001 CONC CURB (TY I)	LF	1615
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	277
531-6003 CONC SIDEWALKS (6")	SY	179
531-6004 CURB RAMPS (TY 1)	EA	6
531-6005 CURB RAMPS (TY 2)	EA	1
531-6010 CURB RAMPS (TY 7)	EA	1
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	231
540-6001 MTL W-BEAM GD FEN (TIM POST)	EA	0
540-6006 MTL BEAM GD FEN TRANS (THRIF-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE RETAINING WALL LAYOUTS FOR RETAINING WALL DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES.

- LEGEND**
- ① DRIVEWAY NUMBER
 - ▨ CONC RIPRAP
 - ▨ COLORED TEXTURED CONCRETE
 - Ⓜ S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
PLAN
SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	419	

REVISED 4/19/2023 SCALE: 1"=50'

DATE: 04/19/2023 10:42 AM
 FILE: \\txdot\project\wiseon\line.com:TXDOT14\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Sheets\Plan7.dgn

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

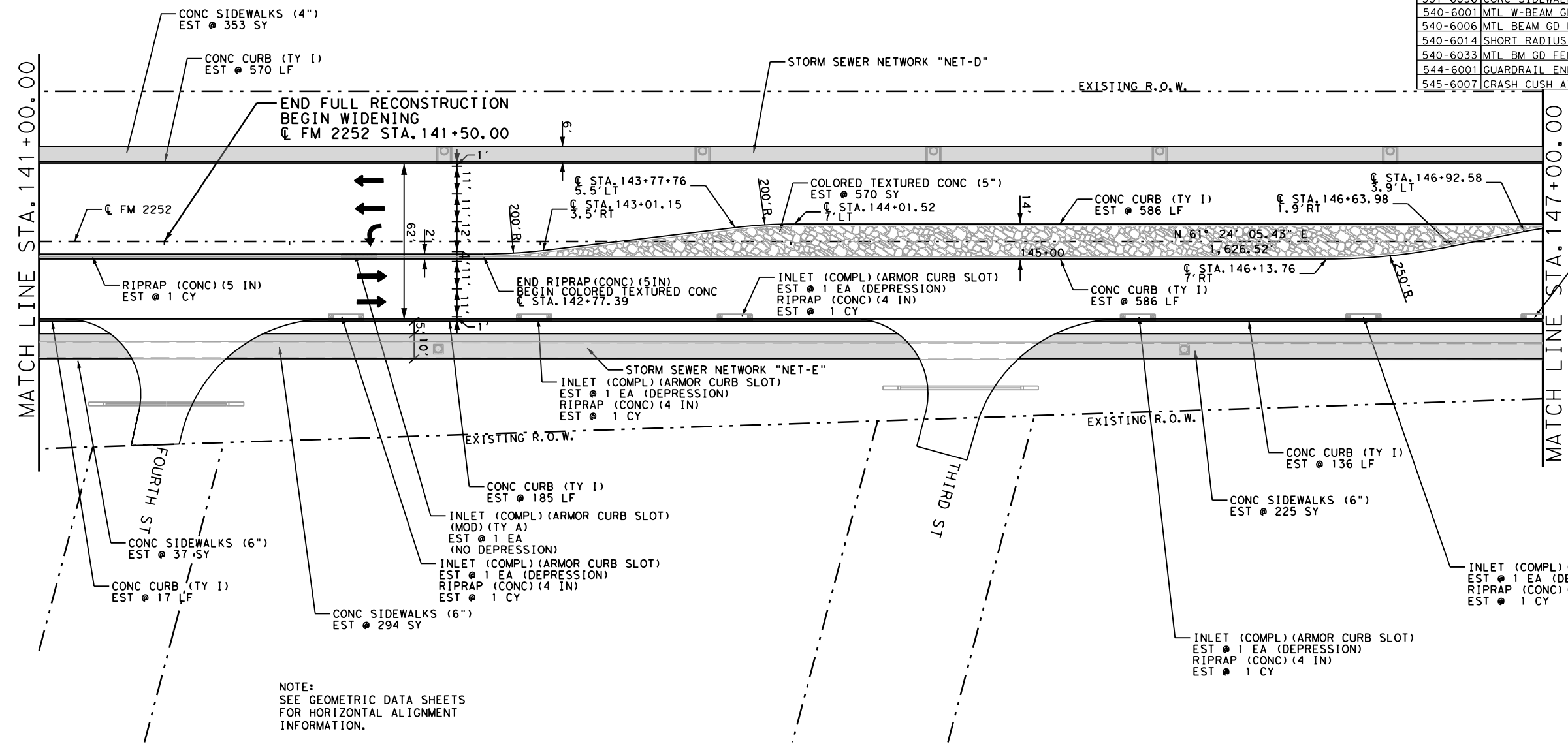
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 2252 (STA. 141+50 TO STA. 147+00)	1772	1772	5153
MARBACH INTERSECTION (STA. 141+00 TO 141+50)	728	361	333

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
3076-6066 TACK COAT	GAL	250
3085-6001 UNDERSEAL COURSE	GAL	426
5001-6002 GEOGRID BASE REINFORCEMENT (TY I)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	1299
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1321
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL PO	CY	311
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	355
316-6414 AGGR (TY-B GR-5)	CY	13
432-6001 RIPRAP (CONC) (4 IN)	CY	6
432-6002 RIPRAP (CONC) (5 IN)	CY	1
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	6
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	1
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	570
529-6001 CONC CURB (TY 1)	LF	2080
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	353
531-6003 CONC SIDEWALKS (6")	SY	556
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0



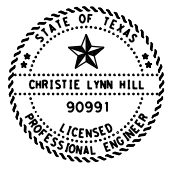
NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
 SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR
 INTERSECTION DETAILS.

SEE MISCELLANEOUS DRAINAGE
 DETAILS FOR RIPRAP DETAILS
 AT SIDEWALK BRIDGES
 AND ARMOR CURB SLOTS.

LEGEND

- DRIVEWAY NUMBER
- CONC RIPRAP
- COLORED TEXTURED CONCRETE
- S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX

INLET (COMPL) (ARMOR CURB SLOT)
 EST @ 1 EA (DEPRESSION)
 (ALL PAID THIS SHEET)
 RIPRAP (CONC) (4 IN)
 EST @ 1 CY



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		420

REVISED 4/19/2023 SCALE: 1"=50'

DATE: 04/19/2023 10:42 AM
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

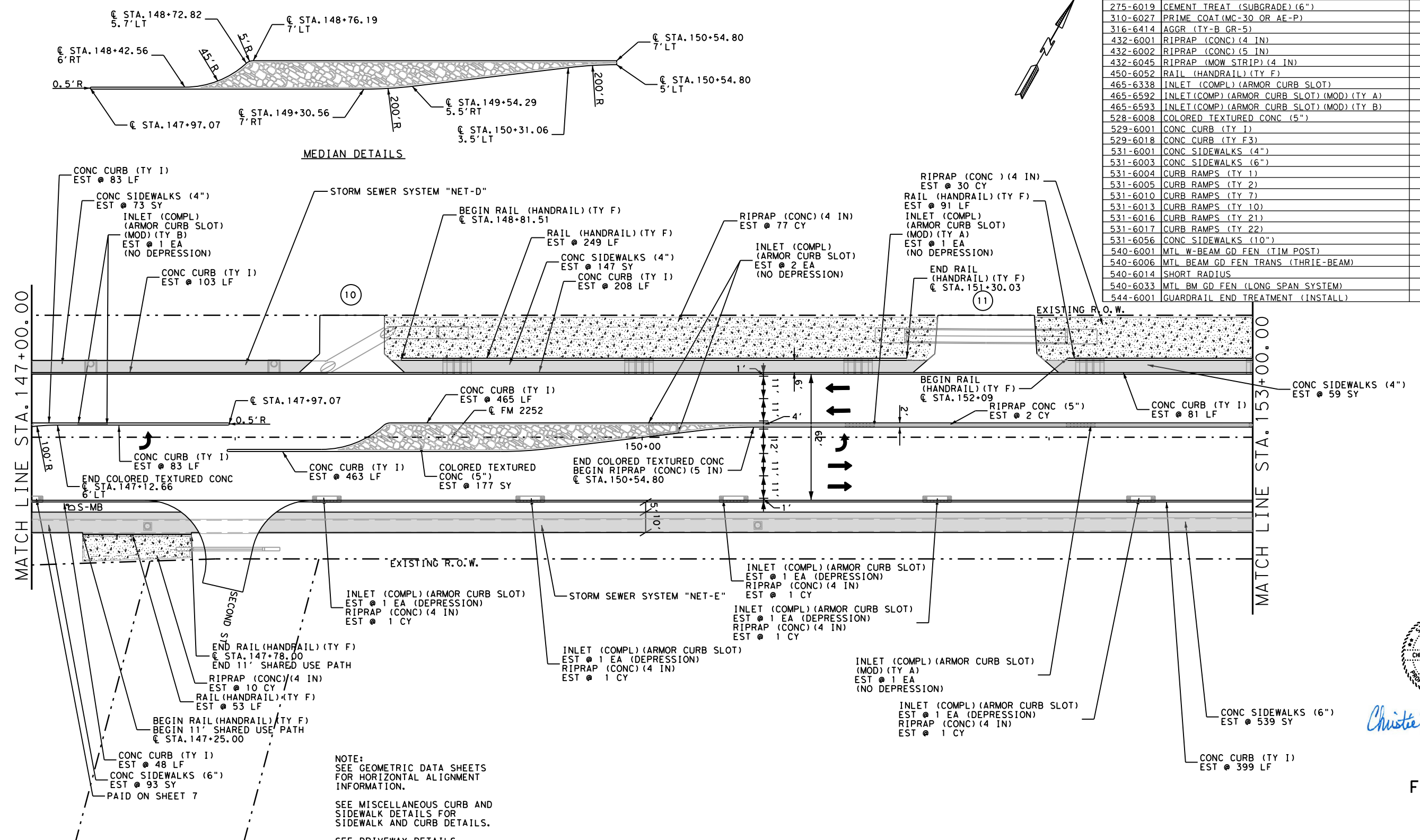
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1933	1933	5580

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNTY	TOTAL
545-6007 CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	193
3085-6001 UNDERSEAL COURSE	GAL	387
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNTY	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	787
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1565
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387
316-6414 AGGR (TY-B GR-5)	CY	14
432-6001 RIPRAP (CONC) (4 IN)	CY	122
432-6002 RIPRAP (CONC) (5 IN)	CY	2
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	EA	7
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	2
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	1
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	1
528-6008 COLORED TEXTURED CONC (5")	SY	177
529-6001 CONC CURB (TY I)	LF	1933
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	279
531-6003 CONC SIDEWALKS (6")	SY	632
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	EA	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0

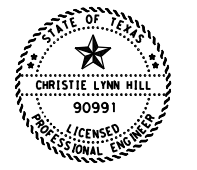


MEDIAN DETAILS



NOTE:
SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.
SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

- LEGEND
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
PLAN
SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	421	

REVISED 4/19/2023 SCALE: 1"=50'

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

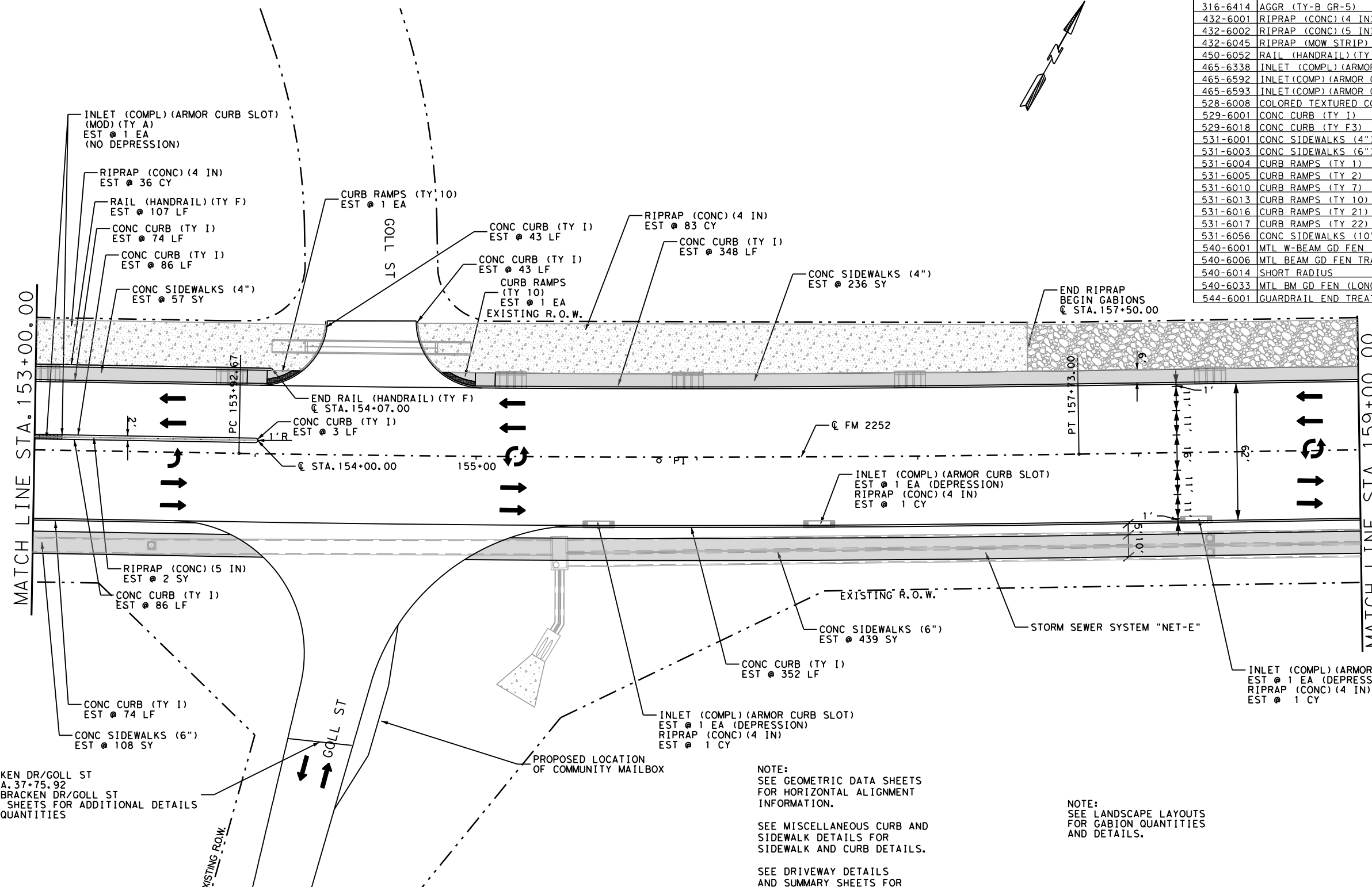
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1933	1933	5844

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
545-6007 CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	193
3085-6001 UNDERSEAL COURSE	GAL	387
5001-6002 GEOGRID BASE REINFORCEMENT (TY 1)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	712
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1271
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339
260-6016 LIME (HYD, COM, OR QK) (SLURRY)	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387
316-6414 AGGR (TY-B GR-5)	CY	14
432-6001 RIPRAP (CONC) (4 IN)	CY	122
432-6002 RIPRAP (CONC) (5 IN)	CY	2
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	EA	107
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	3
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	1
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	0
529-6001 CONC CURB (TY 1)	LF	1109
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	293
531-6003 CONC SIDEWALKS (6")	SY	547
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	2
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	EA	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



BRACKEN DR/GOLL ST
 @ STA. 37+75.92
 SEE BRACKEN DR/GOLL ST
 PLAN SHEETS FOR ADDITIONAL DETAILS
 AND QUANTITIES

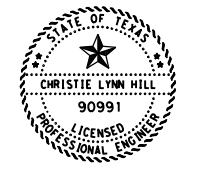
NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
 SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR
 INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT
 SIDEWALK BRIDGES AND ARMOR CURB SLOTS.
 SEE MISCELLANEOUS ROADWAY DETAILS
 FOR RIPRAP DETAILS.

NOTE:
 SEE LANDSCAPE LAYOUTS
 FOR GABION QUANTITIES
 AND DETAILS.

LEGEND

- DRIVEWAY NUMBER
- CONC RIPRAP
- COLORED TEXTURED CONCRETE
- S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX

REVISION 4/19/2023
 SCALE: 1"=50'



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	422	

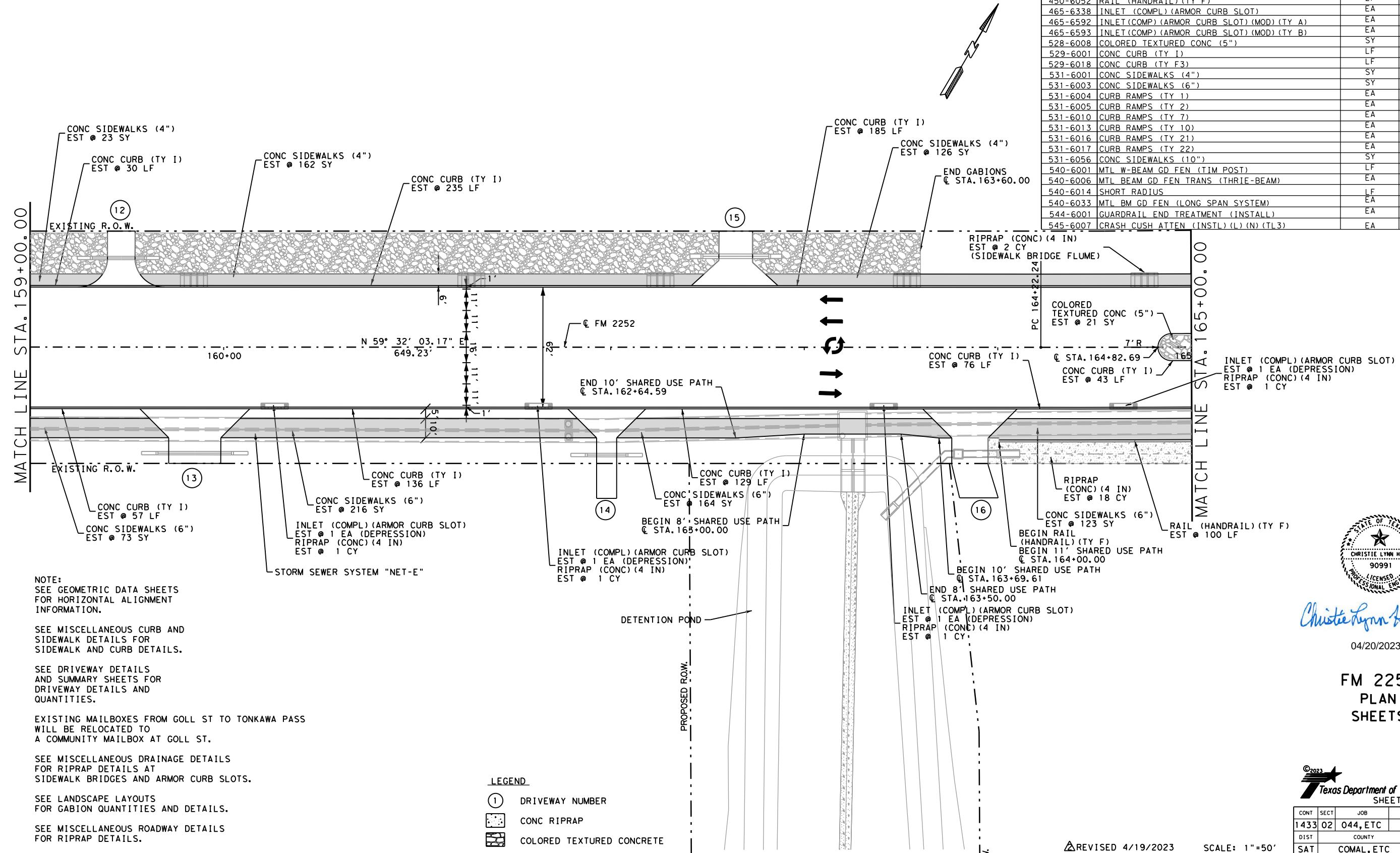
DATE: 04/19/2023 10:04 AM
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 2252	1933	1933	5841

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
3076-6066 TACK COAT	GAL	193	
3085-6001 UNDERSEAL COURSE	GAL	387	
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0	

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001 EXCAVATION (ROADWAY)	CY	1117	
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	879	
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339	
260-6016 LIME (HYD, COM, OR OK) (SLURRY)	TON	0	
260-6079 LIME TRT (SUBGRADE) (6")	SY	0	
275-6001 CEMENT	TON	0	
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0	
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387	
316-6414 AGGR (TY-B GR-5)	CY	14	
432-6001 RIPRAP (CONC) (4 IN)	CY	24	
432-6002 RIPRAP (CONC) (5 IN)	CY	0	
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0	
450-6052 RAIL (HANDRAIL) (TY F)	LF	100	
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	4	
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0	
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0	
528-6008 COLORED TEXTURED CONC (5")	SY	21	
529-6001 CONC CURB (TY I)	LF	891	
529-6018 CONC CURB (TY F3)	LF	0	
531-6001 CONC SIDEWALKS (4")	SY	311	
531-6003 CONC SIDEWALKS (6")	SY	576	
531-6004 CURB RAMPS (TY 1)	EA	0	
531-6005 CURB RAMPS (TY 2)	EA	0	
531-6010 CURB RAMPS (TY 7)	EA	0	
531-6013 CURB RAMPS (TY 10)	EA	0	
531-6016 CURB RAMPS (TY 21)	EA	0	
531-6017 CURB RAMPS (TY 22)	EA	0	
531-6056 CONC SIDEWALKS (10")	SY	0	
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0	
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0	
540-6014 SHORT RADIUS	LF	0	
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0	
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0	
545-6007 CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0	



NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

EXISTING MAILBOXES FROM GOLL ST TO TONKAWA PASS
 WILL BE RELOCATED TO
 A COMMUNITY MAILBOX AT GOLL ST.

SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT
 SIDEWALK BRIDGES AND ARMOR CURB SLOTS.

SEE LANDSCAPE LAYOUTS
 FOR GABION QUANTITIES AND DETAILS.

SEE MISCELLANEOUS ROADWAY DETAILS
 FOR RIPRAP DETAILS.

LEGEND

①	DRIVEWAY NUMBER
▨	CONC RIPRAP
▨	COLORED TEXTURED CONCRETE



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**

REVISED 4/19/2023 SCALE: 1"=50'



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	423

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

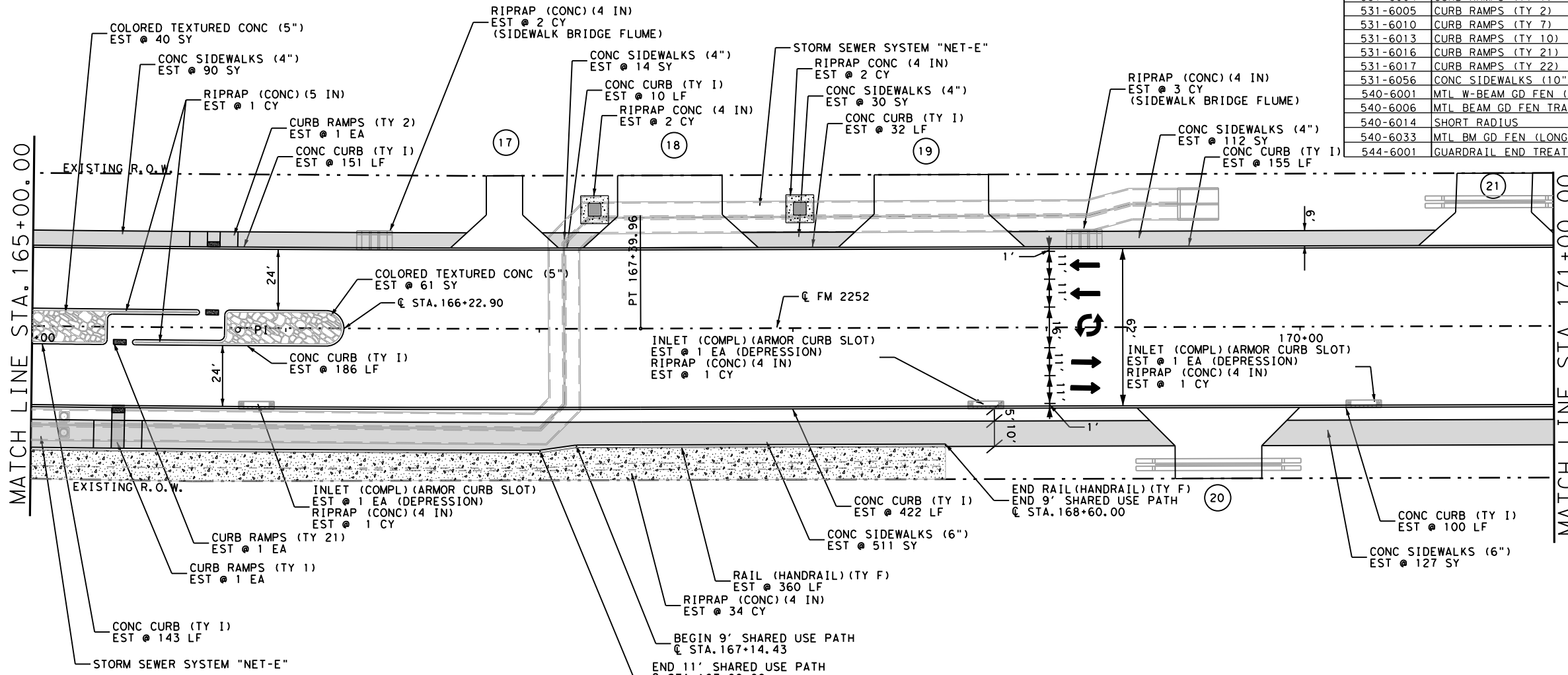
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1933	1933	5677

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNITY	TOTAL
545-6007 CRASH CUSH ATTN (INSL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	193
3085-6001 UNDERSEAL COURSE	GAL	387
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

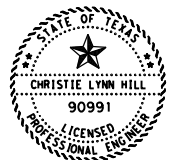
QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNITY	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	988
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	795
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387
316-6414 AGGR (TY-B GR-5)	CY	14
432-6001 RIPRAP (CONC) (4 IN)	CY	46
432-6002 RIPRAP (CONC) (5 IN)	CY	1
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	EA	360
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	3
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	101
529-6001 CONC CURB (TY 1)	LF	1199
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	246
531-6003 CONC SIDEWALKS (6")	SY	638
531-6004 CURB RAMPS (TY 1)	EA	1
531-6005 CURB RAMPS (TY 2)	EA	1
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	1
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	EA	0
540-6006 MTL BEAM GD FEN TRANS (THRIF-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 EXISTING MAILBOXES FROM GOLL ST TO TONKAWA PASS WILL BE RELOCATED TO A COMMUNITY MAILBOX AT GOLL ST.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.
 SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

- LEGEND
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



SHEET 11 OF 27

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	424	

REVISED 4/19/2023

SCALE: 1"=50'

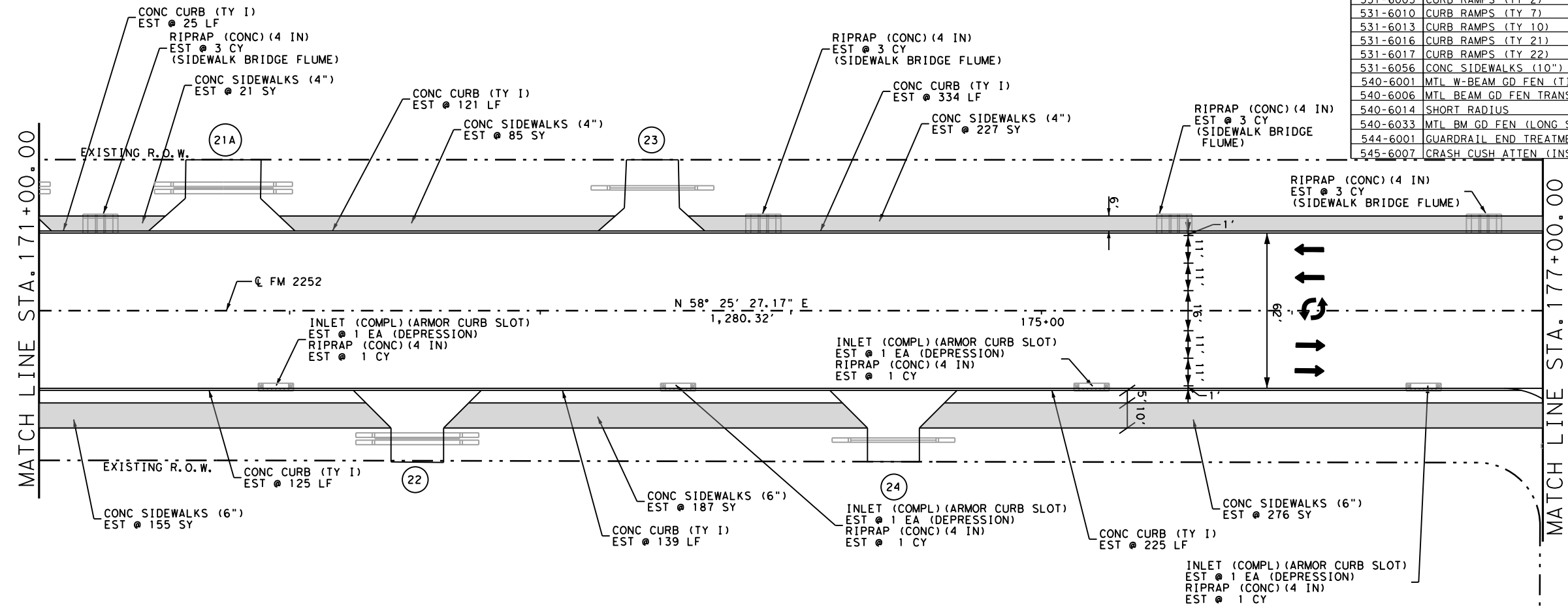
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1933	1933	5866

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
3076-6066 TACK COAT	GAL	193	
3085-6001 UNDERSEAL COURSE	GAL	387	
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0	

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001 EXCAVATION (ROADWAY)	CY	997	
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	510	
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339	
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0	
260-6079 LIME TRT (SUBGRADE) (6")	SY	0	
275-6001 CEMENT	TON	0	
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0	
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387	
316-6414 AGGR (TY-B GR-5)	CY	14	
432-6001 RIPRAP (CONC) (4 IN)	CY	16	
432-6002 RIPRAP (CONC) (5 IN)	CY	0	
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0	
450-6052 RAIL (HANDRAIL) (TY F)	LF	0	
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	4	
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0	
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0	
528-6008 COLORED TEXTURED CONC (5")	SY	0	
529-6001 CONC CURB (TY 1)	LF	969	
529-6018 CONC CURB (TY F3)	LF	0	
531-6001 CONC SIDEWALKS (4")	SY	333	
531-6003 CONC SIDEWALKS (6")	SY	618	
531-6004 CURB RAMPS (TY 1)	EA	0	
531-6005 CURB RAMPS (TY 2)	EA	0	
531-6010 CURB RAMPS (TY 7)	EA	0	
531-6013 CURB RAMPS (TY 10)	EA	0	
531-6016 CURB RAMPS (TY 21)	EA	0	
531-6017 CURB RAMPS (TY 22)	EA	0	
531-6056 CONC SIDEWALKS (10")	SY	0	
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0	
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0	
540-6014 SHORT RADIUS	LF	0	
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0	
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0	
545-6007 CRASH CUSH ATTN (INSTR) (L) (N) (TL3)	EA	0	



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.

SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.

SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.

EXISTING MAILBOXES FROM GOLL ST TO TONKAWA PASS WILL BE RELOCATED TO A COMMUNITY MAILBOX AT GOLL ST.

SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.

- LEGEND
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN SHEETS

REVISED 4/19/2023 SCALE: 1"=50'

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SHEET 12 OF 27			
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		425

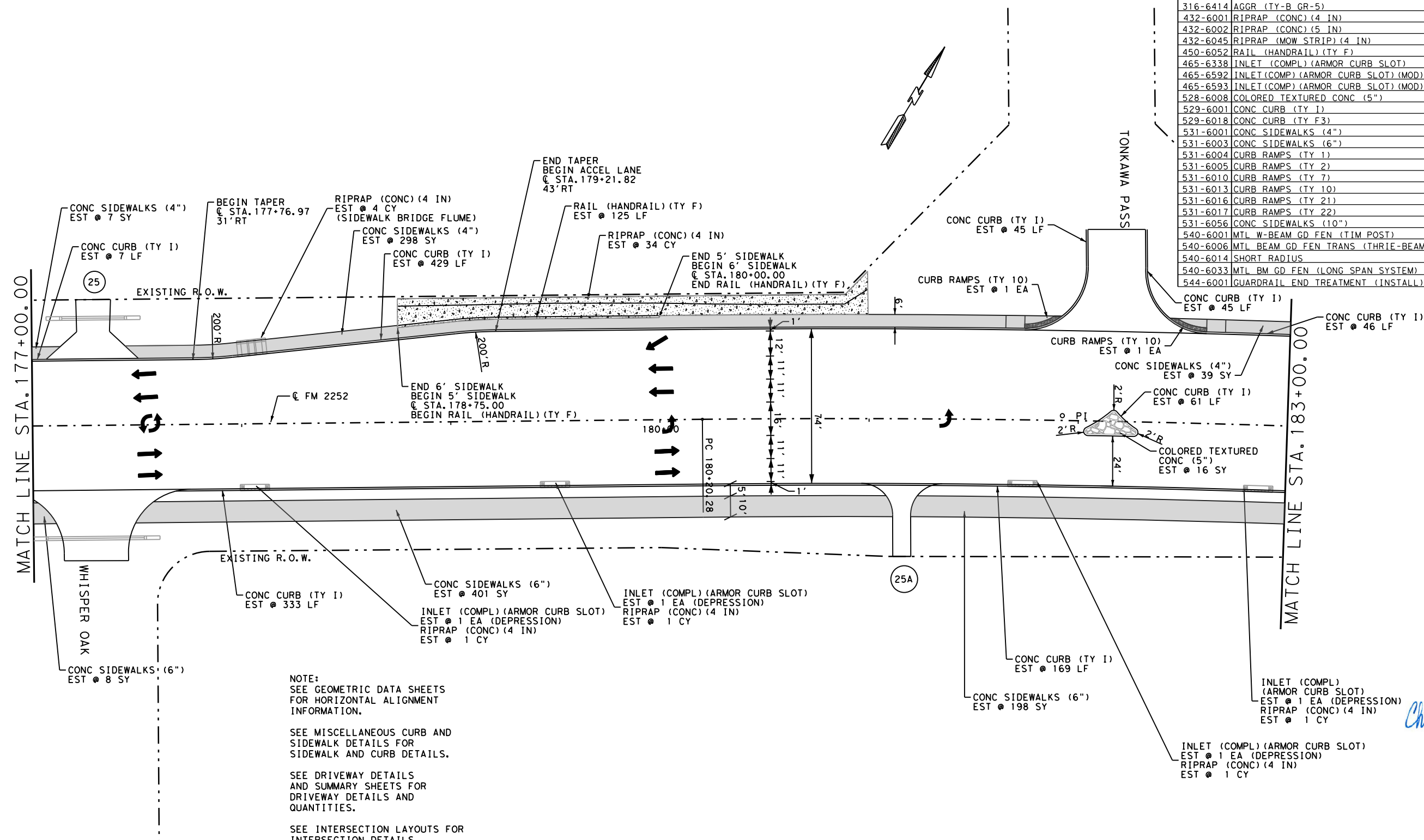
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	2534	2534	7068

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNITY	TOTAL
545-6007 CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	254
3085-6001 UNDERSEAL COURSE	GAL	506
5001-6002 GEOGRID BASE REINFORCEMENT (TY I1)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNITY	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	2509
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	336
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	603
260-6016 LIME (HYD, COM, OR OK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	506
316-6414 AGGR (TY-B GR-5)	CY	18
432-6001 RIPRAP (CONC) (4 IN)	CY	42
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	125
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	4
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	16
529-6001 CONC CURB (TY I)	LF	1135
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	344
531-6003 CONC SIDEWALKS (6")	SY	607
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	2
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.

SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.

SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.

SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.

EXISTING MAILBOXES FROM GOLL ST TO TONKAWA PASS WILL BE RELOCATED TO A COMMUNITY MAILBOX AT GOLL ST.

SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGE AND ARMOR CURB SLOTS.

SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

- LEGEND
- (25) DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE

STATE OF TEXAS
 CHRISTIE LYNN HILL
 90991
 LICENSED PROFESSIONAL ENGINEER
 Christie Lynn Hill, P.E.

04/20/2023
 FM 2252
 PLAN SHEETS

REVISION 4/19/2023 SCALE: 1"=50'

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SHEET 13 OF 27			
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		426

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

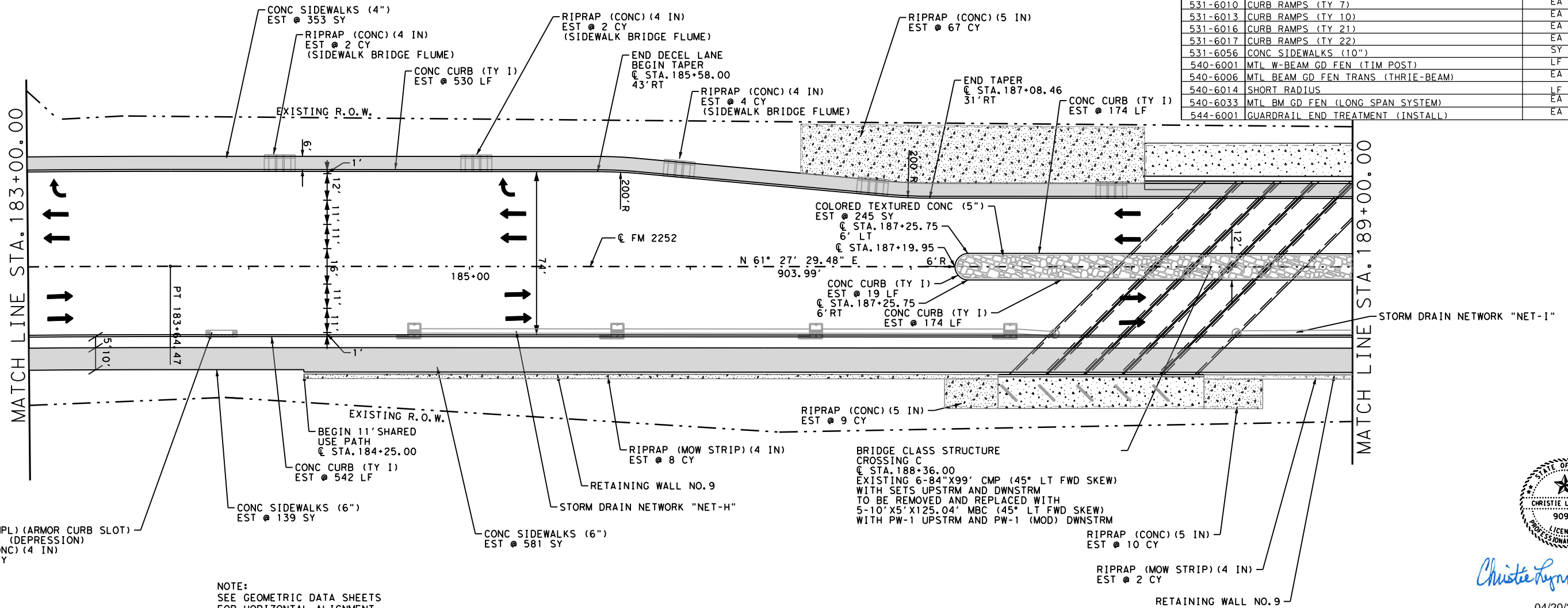
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	SY	SY	SY
FM 2252	2378	2378	6517

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
545-6007 CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	238
3085-6001 UNDERSEAL COURSE	GAL	475
5001-6002 GEOGRID BASE REINFORCEMENT (TY I1)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	1115
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1728
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	413
260-6016 LIME (HYD, COM, OR OK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	475
316-6414 AGGR (TY-B GR-5)	CY	17
432-6001 RIPRAP (CONC) (4 IN)	CY	9
432-6002 RIPRAP (CONC) (5 IN)	CY	86
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	10
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	1
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	245
529-6001 CONC CURB (TY I)	LF	1439
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	353
531-6003 CONC SIDEWALKS (6")	SY	720
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	EA	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



INLET (COMPL) (ARMOR CURB SLOT)
 EST @ 1 EA (DEPRESSION)
 RIPRAP (CONC) (4 IN)
 EST @ 1 CY

NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

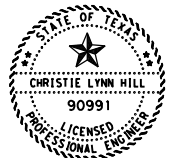
SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

SEE RETAINING WALL LAYOUTS FOR
 RETAINING WALL DETAILS.

SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT
 SIDEWALK BRIDGE AND ARMOR CURB SLOTS.

LEGEND

- DRIVEWAY NUMBER
- CONC RIPRAP
- COLORED TEXTURED CONCRETE
- S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	427	

REVISED 4/19/2023

SCALE: 1"=50'

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

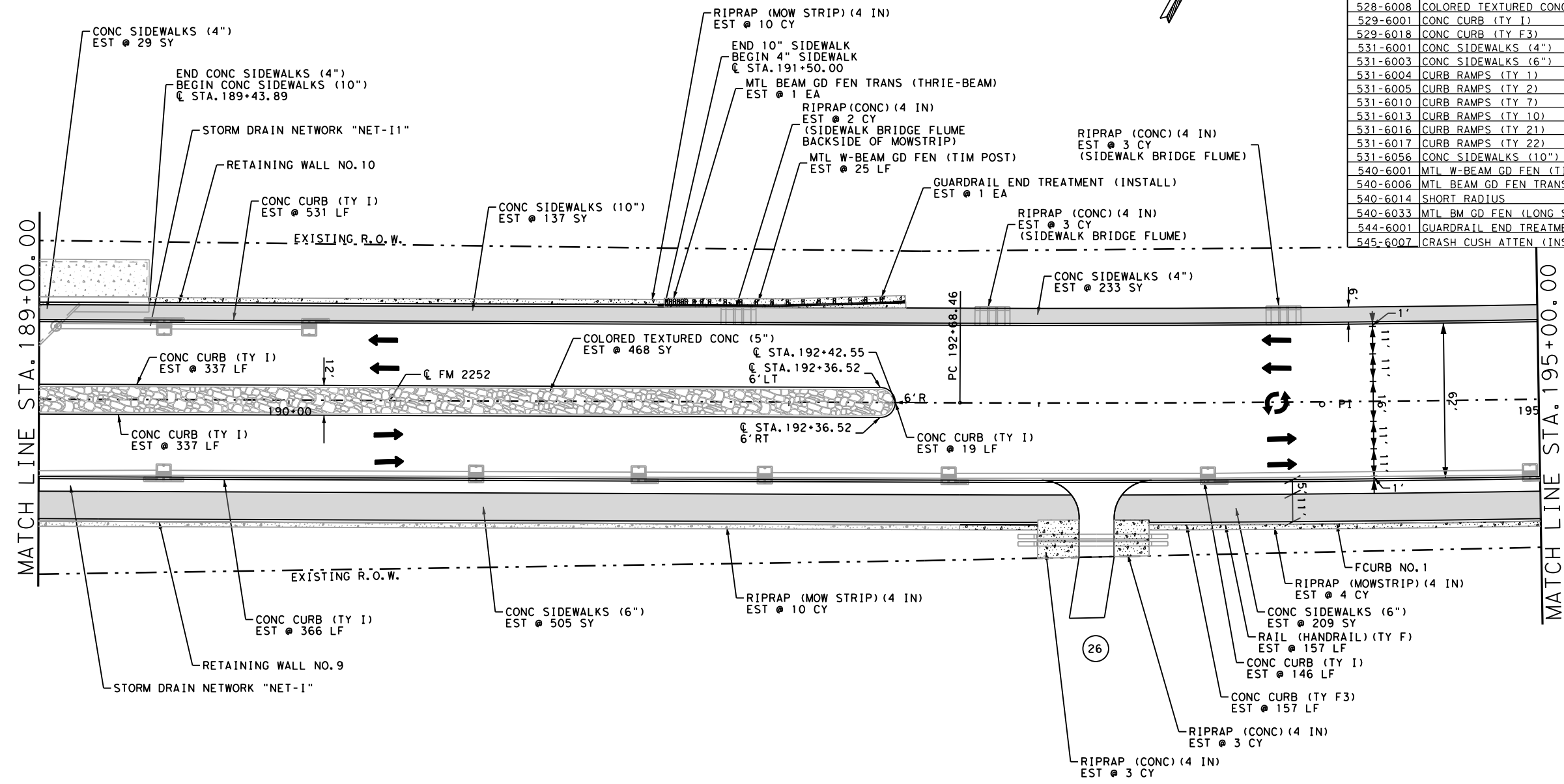
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	SY	SY	SY
FM 2252	1933	1933	5412

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
3076-6066 TACK COAT	GAL	193
3085-6001 UNDERSEAL COURSE	GAL	387
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

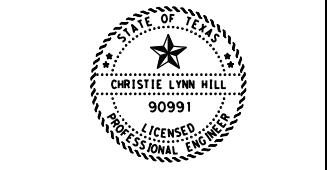
QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	587
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	2313
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	387
316-6414 AGGR (TY-B GR-5)	CY	14
432-6001 RIPRAP (CONC) (4 IN)	CY	14
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	24
450-6052 RAIL (HANDRAIL) (TY F)	LF	157
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	468
529-6001 CONC CURB (TY 1)	LF	1736
529-6018 CONC CURB (TY F3)	LF	157
531-6001 CONC SIDEWALKS (4")	SY	262
531-6003 CONC SIDEWALKS (6")	SY	714
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	137
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	25
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	1
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	1
545-6007 CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK, CURB AND FCURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE RETAINING WALL LAYOUTS FOR RETAINING WALL DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES.

- LEGEND
- (1) DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS

REVISED 4/19/2023 SCALE: 1"=50'

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CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	428	

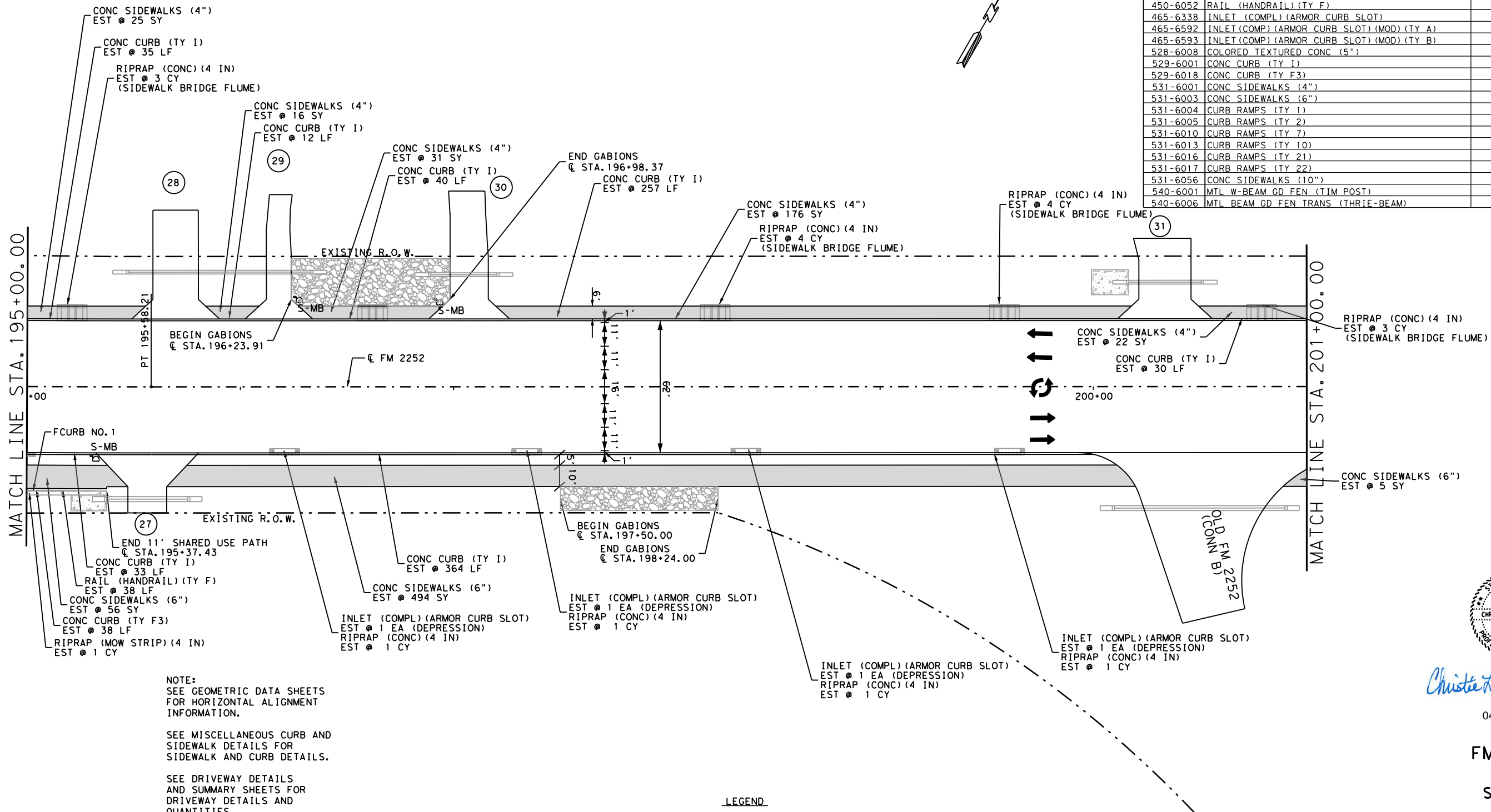
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	1933	1933	5866

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	193
3085-6001	UNDERSEAL COURSE	GAL	387
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	844
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1680
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	339
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	387
316-6414	AGGR (TY-B GR-5)	CY	14
432-6001	RIPRAP (CONC) (4 IN)	CY	18
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	1
450-6052	RAIL (HANDRAIL) (TY F)	LF	38
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	4
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	0
529-6001	CONC CURB (TY 1)	LF	771
529-6018	CONC CURB (TY F3)	LF	38
531-6001	CONC SIDEWALKS (4")	SY	270
531-6003	CONC SIDEWALKS (6")	SY	555
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.
 SEE LANDSCAPE LAYOUTS FOR GABION QUANTITIES AND DETAILS.

- LEGEND**
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX

STATE OF TEXAS
 CHRISTIE LYNN HILL
 90991
 LICENSED PROFESSIONAL ENGINEER
 Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**

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SHEET 16 OF 27			
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		429

REVISED 4/19/2023 SCALE: 1"=50'

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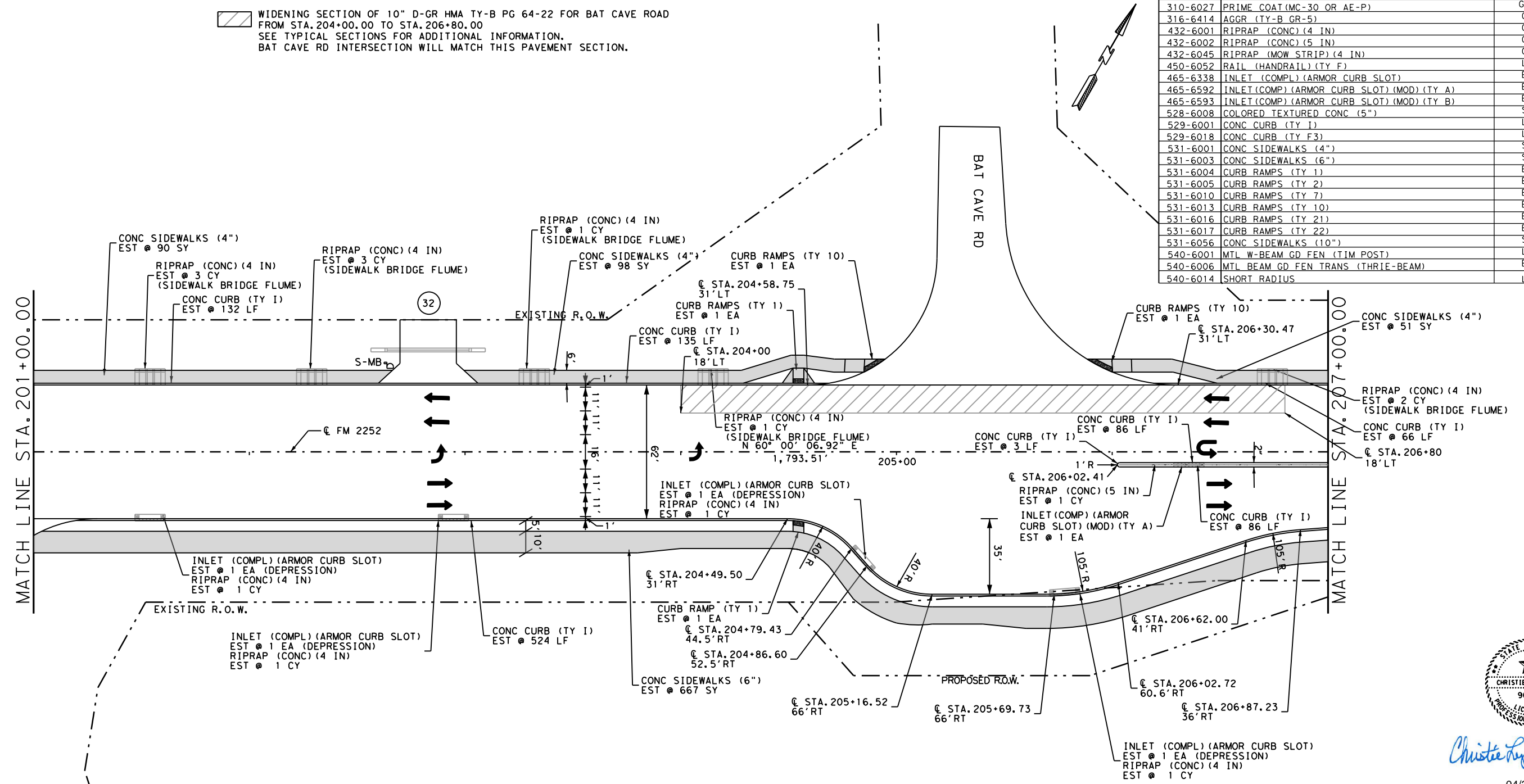
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	SY	SY	SY
FM 2252	3050	2552	8079

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

WIDENING SECTION OF 10" D-GR HMA TY-B PG 64-22 FOR BAT CAVE ROAD
 FROM STA. 204+00.00 TO STA. 206+80.00
 SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
 BAT CAVE RD INTERSECTION WILL MATCH THIS PAVEMENT SECTION.

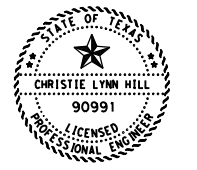
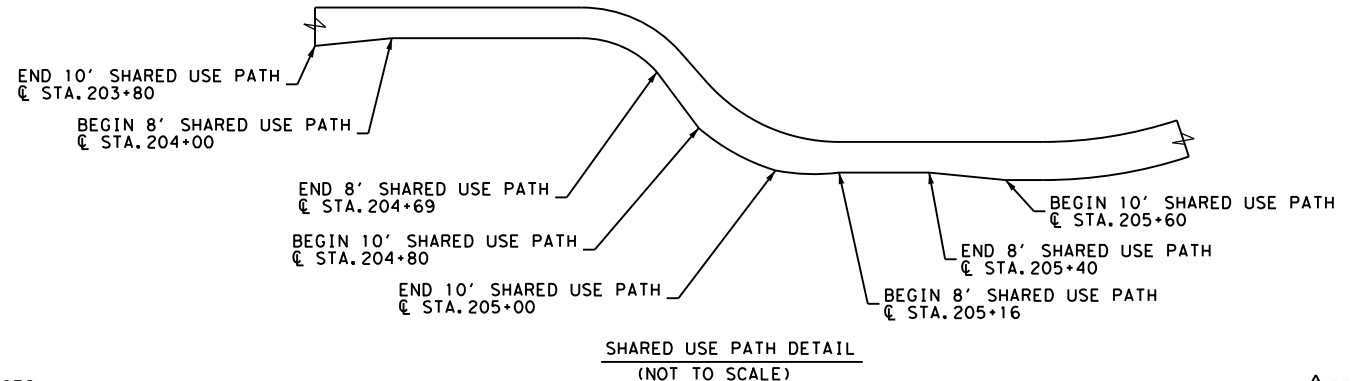
QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNITY	TOTAL
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA 0
3076-6066	TACK COAT	GAL 305
3085-6001	UNDERSEAL COURSE	GAL 510
5001-6002	GEOGRID BASE REINFORCEMENT (TY 1)	SY 0

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNITY	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 2143
132-6003	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY 790
247-6475	FL BS (CIP)(TY D GR 1-2, OR 5)FINAL POS	CY 387
260-6016	LIME (HYD, COM, OR OK)(SLURRY)	TON 0
260-6079	LIME TRT (SUBGRADE)(6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE)(6")	SY 0
310-6027	PRIME COAT(MC-30 OR AE-P)	GAL 420
316-6414	AGGR (TY-B GR-5)	CY 15
432-6001	RIPRAP (CONC)(4 IN)	CY 14
432-6002	RIPRAP (CONC)(5 IN)	CY 1
432-6045	RIPRAP (MOW STRIP)(4 IN)	CY 0
450-6052	RAIL (HANDRAIL)(TY F)	EA 0
465-6338	INLET (COMPL)(ARMOR CURB SLOT)	EA 4
465-6592	INLET (COMPL)(ARMOR CURB SLOT)(MOD)(TY A)	EA 1
465-6593	INLET (COMPL)(ARMOR CURB SLOT)(MOD)(TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 0
529-6001	CONC CURB (TY 1)	LF 1032
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 239
531-6003	CONC SIDEWALKS (6")	SY 667
531-6004	CURB RAMPS (TY 1)	EA 2
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 2
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	EA 0
540-6006	MTL BEAM GD FEN TRANS (THRIF-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
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 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.

- LEGEND**
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE
 - S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	430	

REVISED 4/19/2023 SCALE: 1"=50'

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

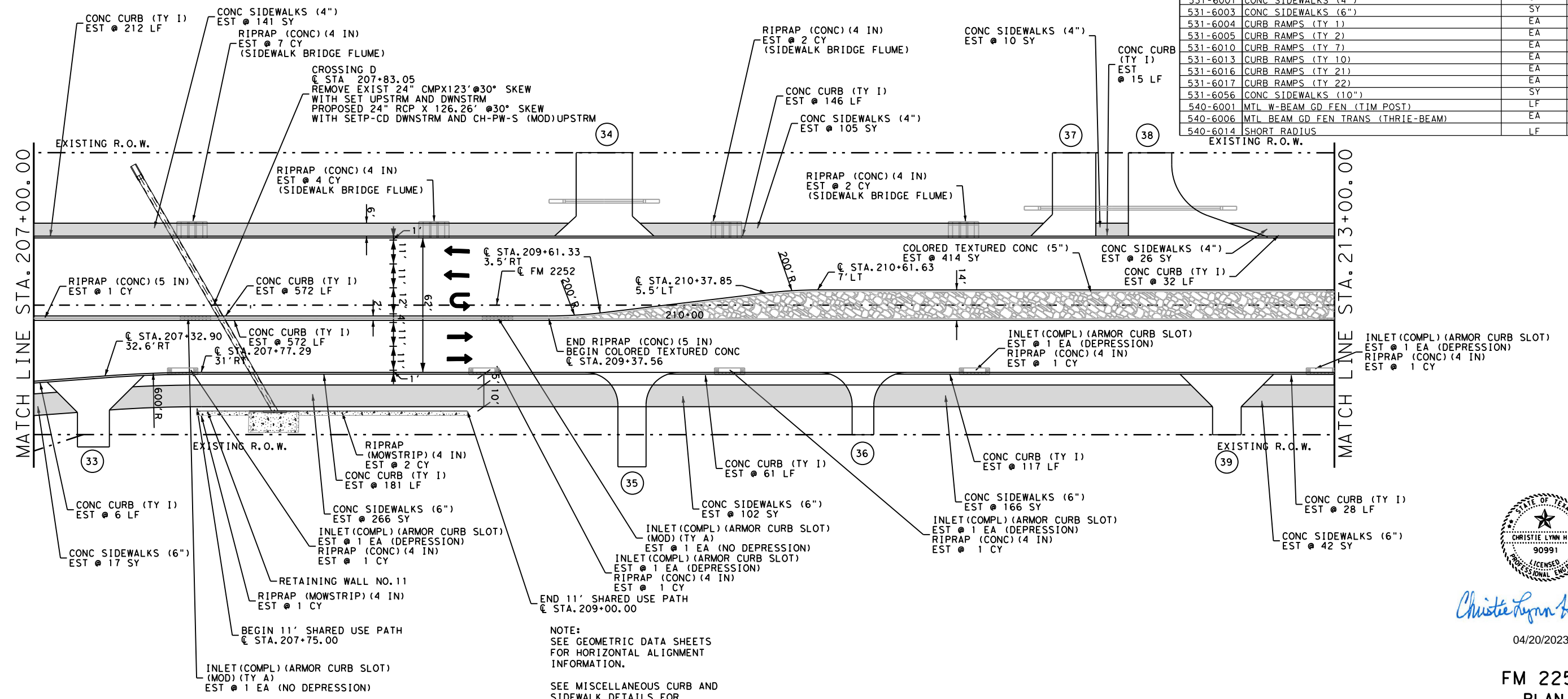
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	SY	SY	SY
FM 2252	1946	1946	5360

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSTL)(L)(N)(TL3)	EA 0
3076-6066	TACK COAT	GAL 195
3085-6001	UNDERSEAL COURSE	GAL 389
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 732
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 1821
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 341
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 389
316-6414	AGGR (TY-B GR-5)	CY 14
432-6001	RIPRAP (CONC) (4 IN)	CY 20
432-6002	RIPRAP (CONC) (5 IN)	CY 1
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 3
450-6052	RAIL (HANDRAIL) (TY F)	EA 0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 5
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 2
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 414
529-6001	CONC CURB (TY I)	LF 1942
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 282
531-6003	CONC SIDEWALKS (6")	SY 593
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	EA 0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE RETAINING WALL LAYOUTS FOR RETAINING WALL DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS.

- LEGEND
- ① DRIVEWAY NUMBER
 - ▨ CONC RIPRAP
 - ▨ COLORLED TEXTURED CONCRETE
 - S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN SHEETS

REVISED 4/19/2023 SCALE: 1"=50'

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST		COUNTY	SHEET NO.
SAT		COMAL, ETC	431

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

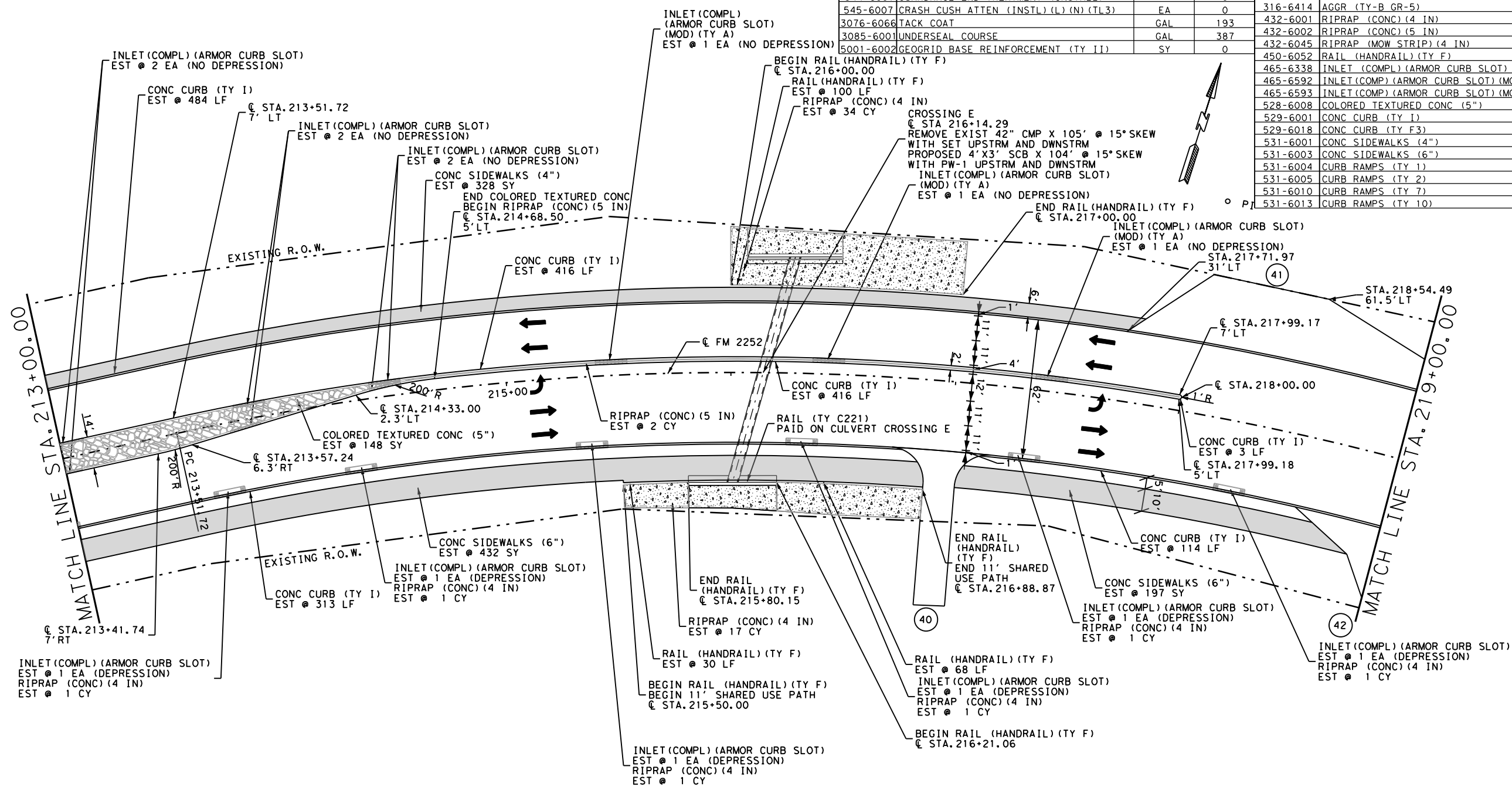
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	SY	SY	SY
FM 2252	1933	1933	5618

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF 0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 193
3085-6001	UNDERSEAL COURSE	GAL 387
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 0

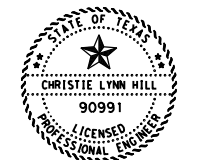
QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 654
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 2200
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 339
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 387
316-6414	AGGR (TY-B GR-5)	CY 14
432-6001	RIPRAP (CONC) (4 IN)	CY 57
432-6002	RIPRAP (CONC) (5 IN)	CY 2
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 0
450-6052	RAIL (HANDRAIL) (TY F)	LF 198
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 12
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 3
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORED TEXTURED CONC (5")	SY 148
529-6001	CONC CURB (TY I)	LF 1746
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 328
531-6003	CONC SIDEWALKS (6")	SY 629
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
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 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT ARMOR CURB SLOTS.
 SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

- LEGEND
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	432	

REVISED 4/19/2023 SCALE: 1"=50'

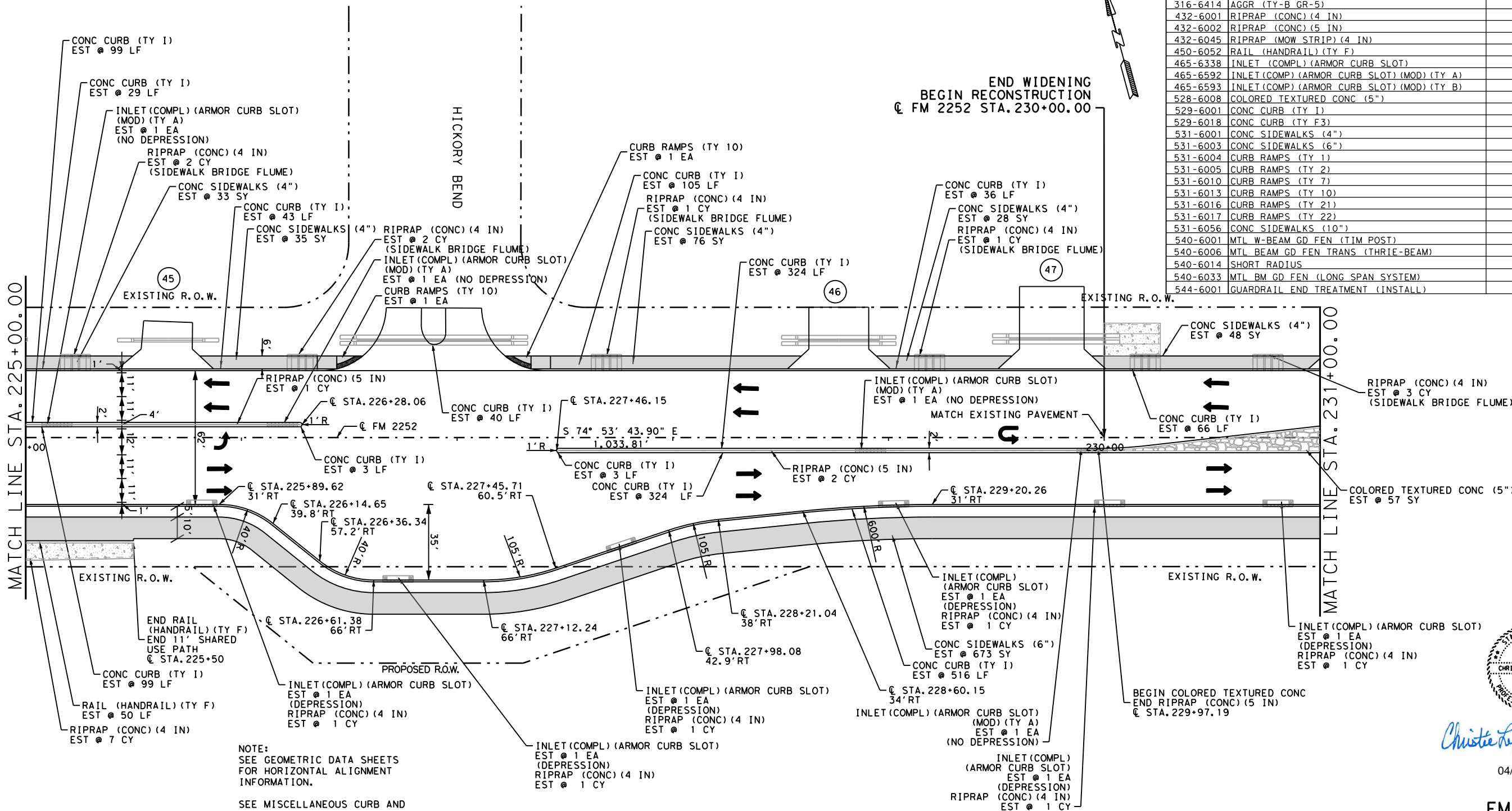
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 2252	4236	4236	8005

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
545-6007 CRASH CUSH ATTN (INSL) (L) (N) (TL3)	EA	0	
3076-6066 TACK COAT	GAL	424	
3085-6001 UNDERSEAL COURSE	GAL	847	
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	739	

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001 EXCAVATION (ROADWAY)	CY	979	
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	939	
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) (FINAL POS)	CY	512	
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0	
260-6079 LIME TRT (SUBGRADE) (6")	SY	0	
275-6001 CEMENT	TON	0	
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0	
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	847	
316-6414 AGGR (TY-B GR-5)	CY	30	
432-6001 RIPRAP (CONC) (4 IN)	CY	22	
432-6002 RIPRAP (CONC) (5 IN)	CY	3	
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0	
450-6052 RAIL (HANDRAIL) (TY F)	LF	50	
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	6	
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	4	
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0	
528-6008 COLORED TEXTURED CONC (5")	SY	57	
529-6001 CONC CURB (TY I)	LF	1687	
529-6018 CONC CURB (TY F3)	LF	0	
531-6001 CONC SIDEWALKS (4")	SY	220	
531-6004 CONC SIDEWALKS (6")	SY	673	
531-6004 CURB RAMPS (TY 1)	EA	0	
531-6005 CURB RAMPS (TY 2)	EA	0	
531-6010 CURB RAMPS (TY 7)	EA	0	
531-6013 CURB RAMPS (TY 10)	EA	2	
531-6016 CURB RAMPS (TY 21)	EA	0	
531-6017 CURB RAMPS (TY 22)	EA	0	
531-6056 CONC SIDEWALKS (10")	SY	0	
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0	
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0	
540-6014 SHORT RADIUS	LF	0	
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0	
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0	



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
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 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT SIDEWALK BRIDGES AND ARMOR CURB SLOTS
 SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

- LEGEND**
- ① DRIVEWAY NUMBER
 - ▨ CONC RIPRAP
 - ▨ COLORED TEXTURED CONCRETE
 - S-MB SINGLE MAILBOX
 - D-MB DOUBLE MAILBOX
 - M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	434	

REVISED 4/19/2023 SCALE: 1"=50'

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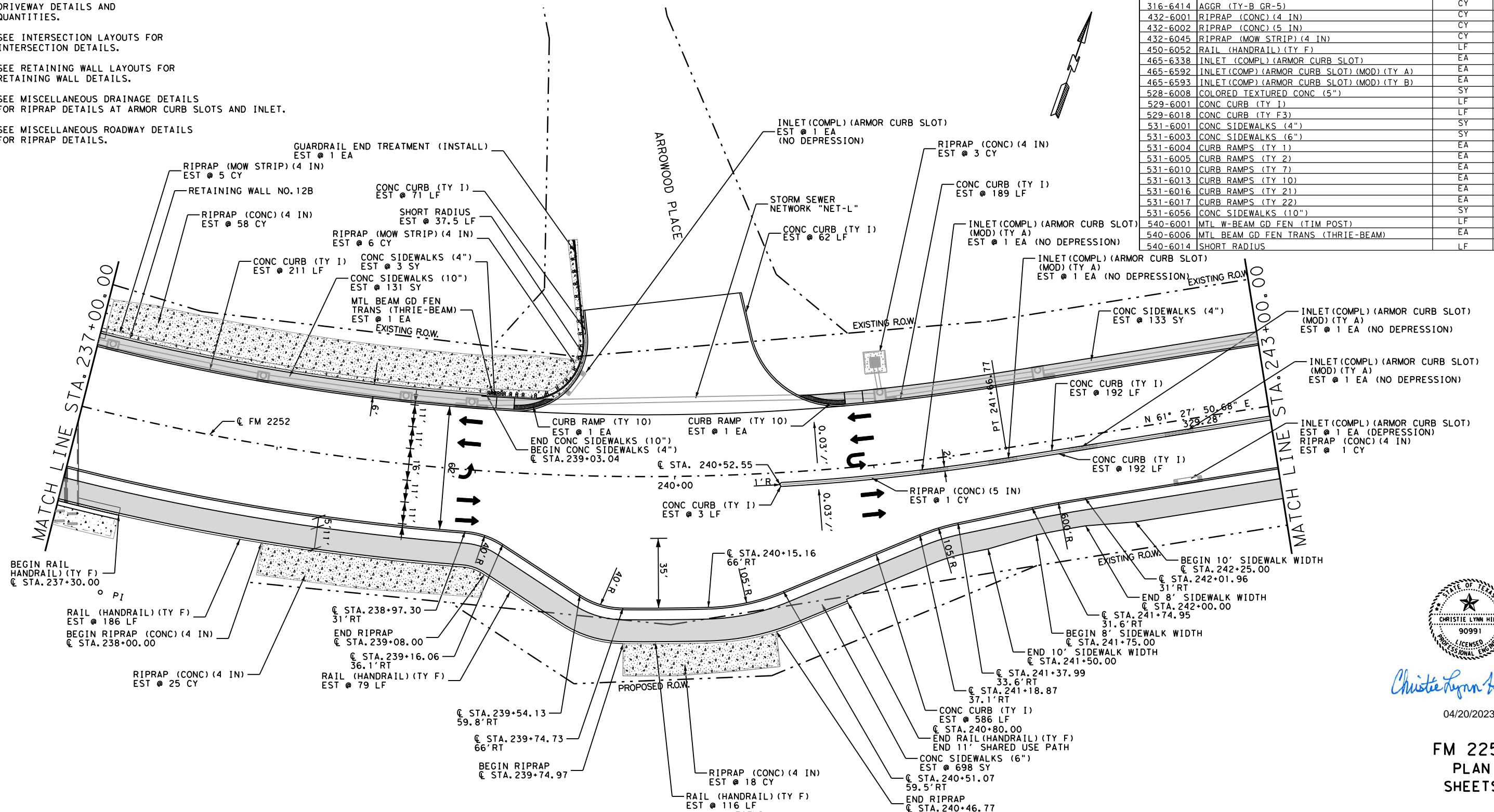
NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE RETAINING WALL LAYOUTS FOR RETAINING WALL DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT ARMOR CURB SLOTS AND INLET.
 SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 2252	4941	4941	4683

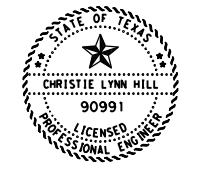
ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNTY	TOTAL
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 1
545-6007	CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 494
3085-6001	UNDERSEAL COURSE	GAL 988
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 5043

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNTY	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 1584
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 4219
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 1024
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 988
316-6414	AGGR (TY-B GR-5)	CY 35
432-6001	RIPRAP (CONC) (4 IN)	CY 105
432-6002	RIPRAP (CONC) (5 IN)	CY 1
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 11
450-6052	RAIL (HANDRAIL) (TY F)	EA 2
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 4
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	LF 1506
529-6001	CONC CURB (TY I)	LF 0
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 136
531-6003	CONC SIDEWALKS (6")	SY 698
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 2
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 131
540-6001	MTL W-BEAM GD FEN (TIM POST)	EA 0
540-6006	MTL BEAM GD FEN TRANS (THRIF-BEAM)	EA 1
540-6014	SHORT RADIUS	LF 37.5



- LEGEND
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE
 - S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
PLAN
SHEETS

REVISED 4/19/2023

SCALE: 1"=50'



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	436	

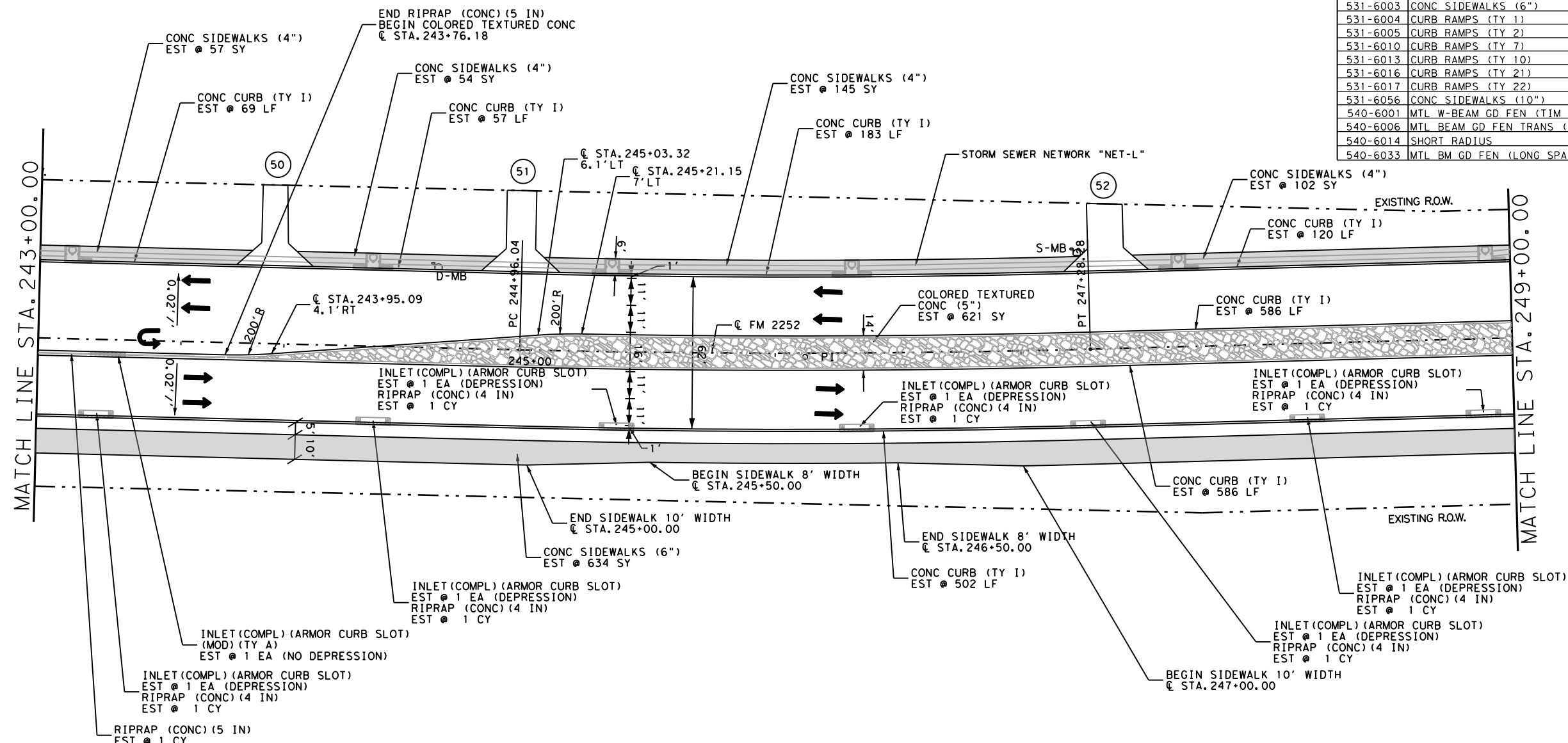
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	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 2252	4333	4333	3398

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	433
3085-6001	UNDERSEAL COURSE	GAL	866
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	4433

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	1633
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1689
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	739
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	866
316-6414	AGGR (TY-B GR-5)	CY	31
432-6001	RIPRAP (CONC) (4 IN)	CY	7
432-6002	RIPRAP (CONC) (5 IN)	CY	1
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	EA	7
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	1
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	621
529-6001	CONC CURB (TY 1)	LF	2103
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	358
531-6003	CONC SIDEWALKS (6")	SY	634
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0



NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT ARMOR CURB SLOTS.

- LEGEND**
- ① DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP
 - [Pattern] COLORED TEXTURED CONCRETE
 - [Symbol] S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

**FM 2252
 PLAN
 SHEETS**



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		437

REVISED 4/19/2023 SCALE: 1"=50'

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NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT
 ARMOR CURB SLOTS.

SEE INTERSECTION LAYOUTS FOR
 INTERSECTION DETAILS.

SEE MISCELLANEOUS ROADWAY DETAILS
 FOR RIPRAP DETAILS.

LEGEND

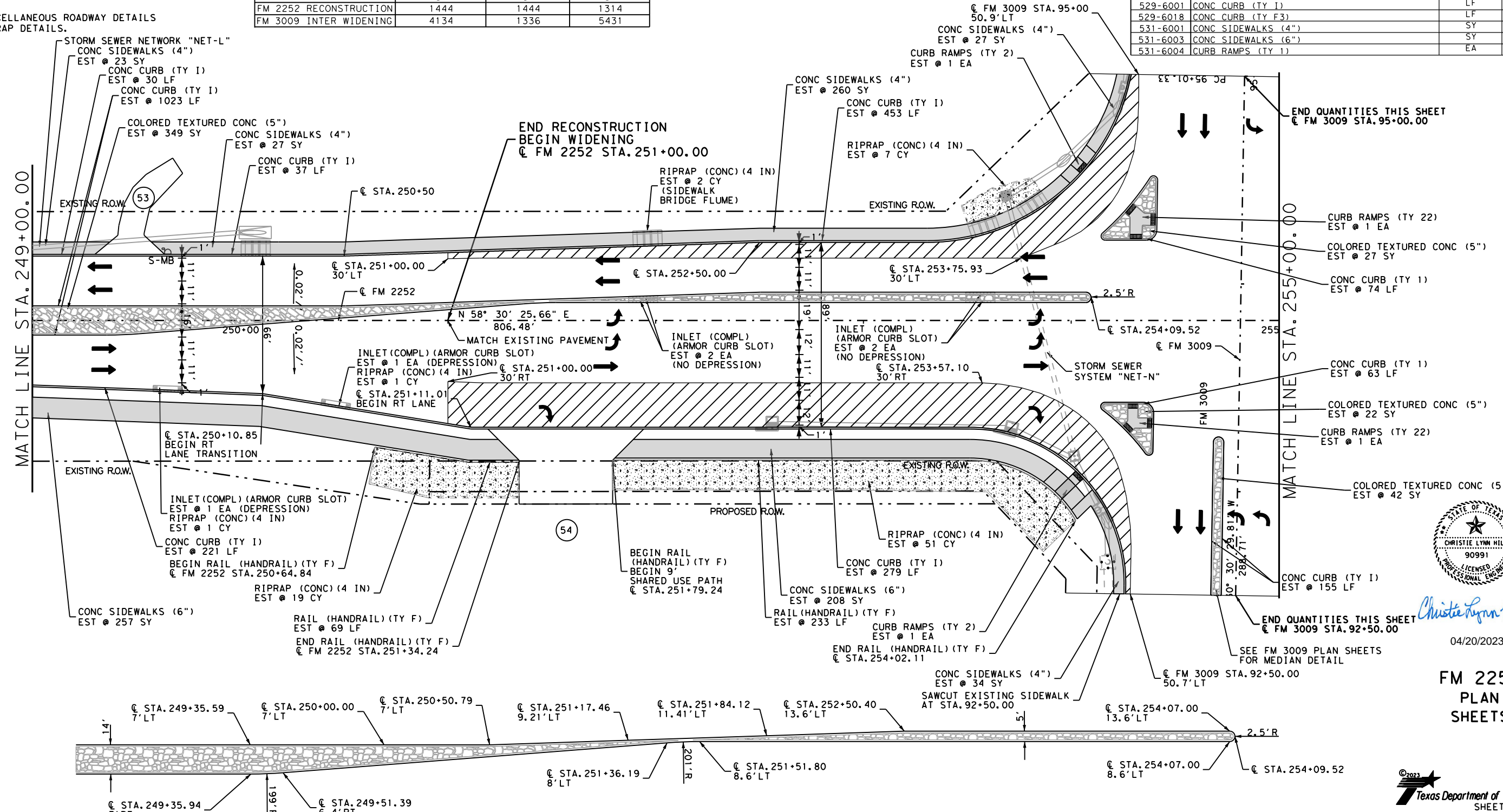
- DRIVEWAY NUMBER
- CONC RIPRAP
- COLORED TEXTURED CONCRETE
- WIDENING AREA
- S-MB SINGLE MAILBOX
- D-MB DOUBLE MAILBOX
- M-MB MULTIPLE MAILBOX

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

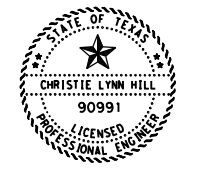
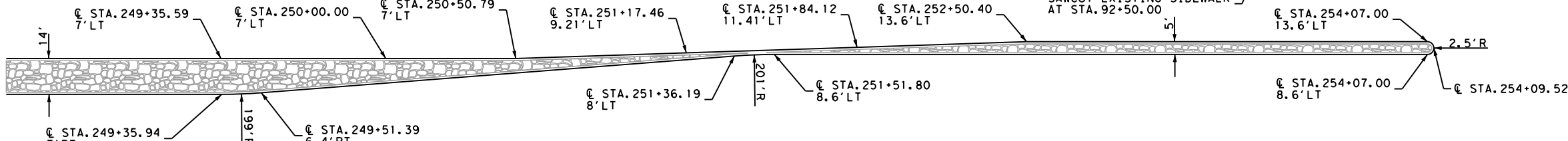
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FM 2252 RECONSTRUCTION	1444	1444	1314
FM 3009 INTER WIDENING	4134	1336	5431

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
531-6005	CURB RAMPS (TY 2)	EA 2
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 2
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF 0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 558
3085-6001	UNDERSEAL COURSE	GAL 556
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 1478

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 1457
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 2016
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 246
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 9
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 1420
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 572
316-6414	AGGR (TY-B GR-5)	CY 20
432-6001	RIPRAP (CONC) (4 IN)	CY 81
432-6002	RIPRAP (CONC) (5 IN)	CY 0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 0
450-6052	RAIL (HANDRAIL) (TY F)	LF 302
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 6
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORED TEXTURED CONC (5")	SY 440
529-6001	CONC CURB (TY 1)	LF 2335
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 371
531-6003	CONC SIDEWALKS (6")	SY 465
531-6004	CURB RAMPS (TY 1)	EA 0



MEDIAN DETAILS



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	438	

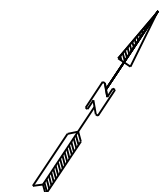
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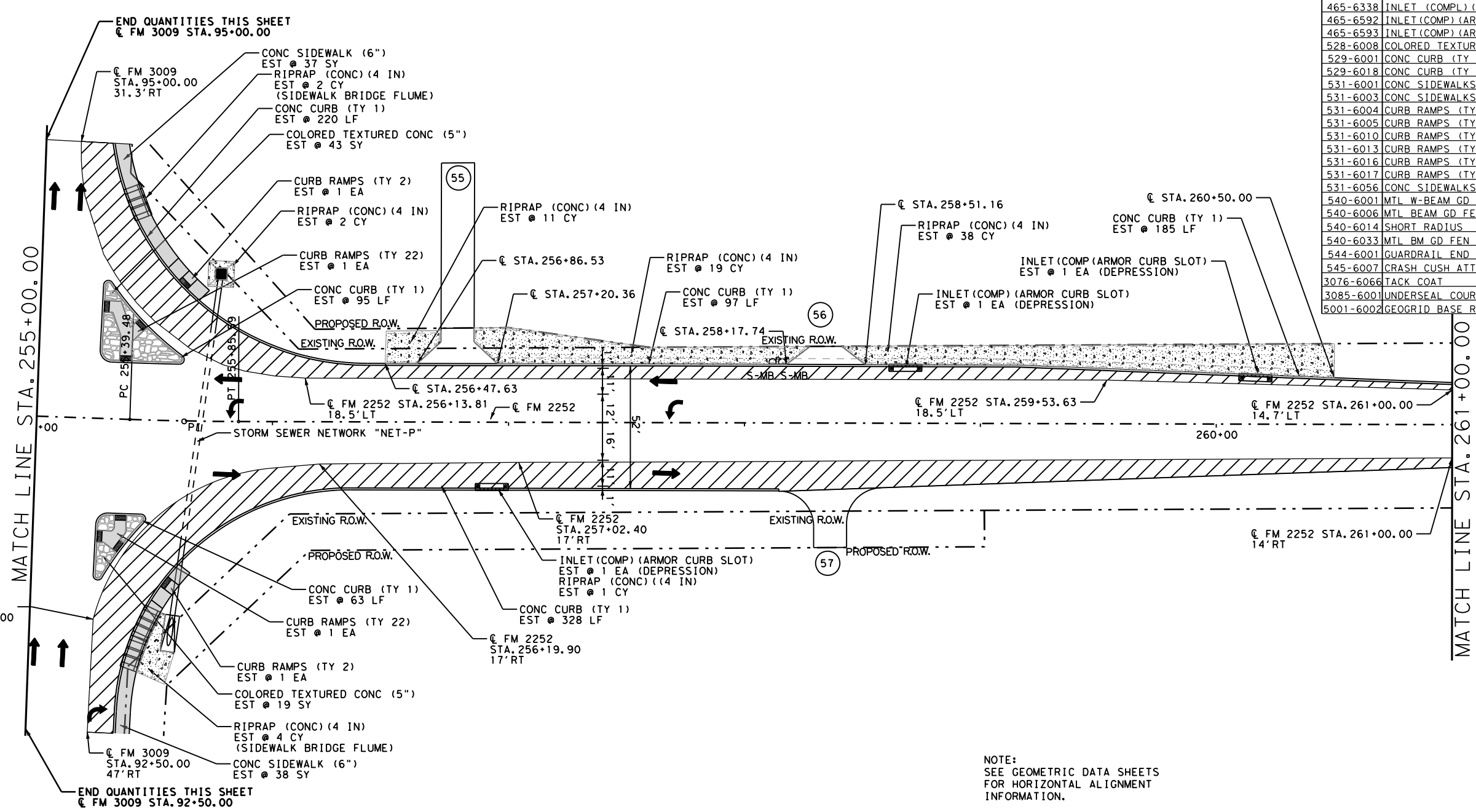
NOTE:
 DRIVEWAY 55 - EXISTING WATER WELL LINES WHERE THE PROPOSED DRIVEWAY STARTS TO TIE INTO EXISTING DRIVEWAY. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER WELL LINES WHEN PLACING DRIVEWAY. CONTRACTOR WILL CONTACT LAND OWNER (MRS. WETZ) PRIOR TO ANY WORK DONE ON PROPERTY.

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY	SY
FM 3009 INTER. WIDENING	4381	1395	4378



QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	990
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	304
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	10
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	1526
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	305
316-6414	AGGR (TY-B GR-5)	CY	11
432-6001	RIPRAP (CONC) (4 IN)	CY	77
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	3
465-6592	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	62
529-6001	CONC CURB (TY 1)	LF	988
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	75
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	2
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	2
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	438
3085-6001	UNDERSEAL COURSE	GAL	279
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0



- LEGEND**
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE
 - WIDENING AREA
 - S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX

NOTE:
 SEE GEOMETRIC DATA SHEETS FOR HORIZONTAL ALIGNMENT INFORMATION.
 SEE MISCELLANEOUS CURB AND SIDEWALK DETAILS FOR SIDEWALK AND CURB DETAILS.
 SEE DRIVEWAY DETAILS AND SUMMARY SHEETS FOR DRIVEWAY DETAILS AND QUANTITIES.
 SEE INTERSECTION LAYOUTS FOR INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS FOR RIPRAP DETAILS AT ARMOR CURB SLOTS AND INLET.
 SEE MISCELLANEOUS ROADWAY DETAILS FOR RIPRAP DETAILS.

STATE OF TEXAS
 CHRISTIE LYNN HILL
 90991
 LICENSED PROFESSIONAL ENGINEER
 Christie Lynn Hill, P.E.

04/20/2023
 FM 2252
 PLAN
 SHEETS

REVISED 4/19/2023 SCALE: 1"=50'

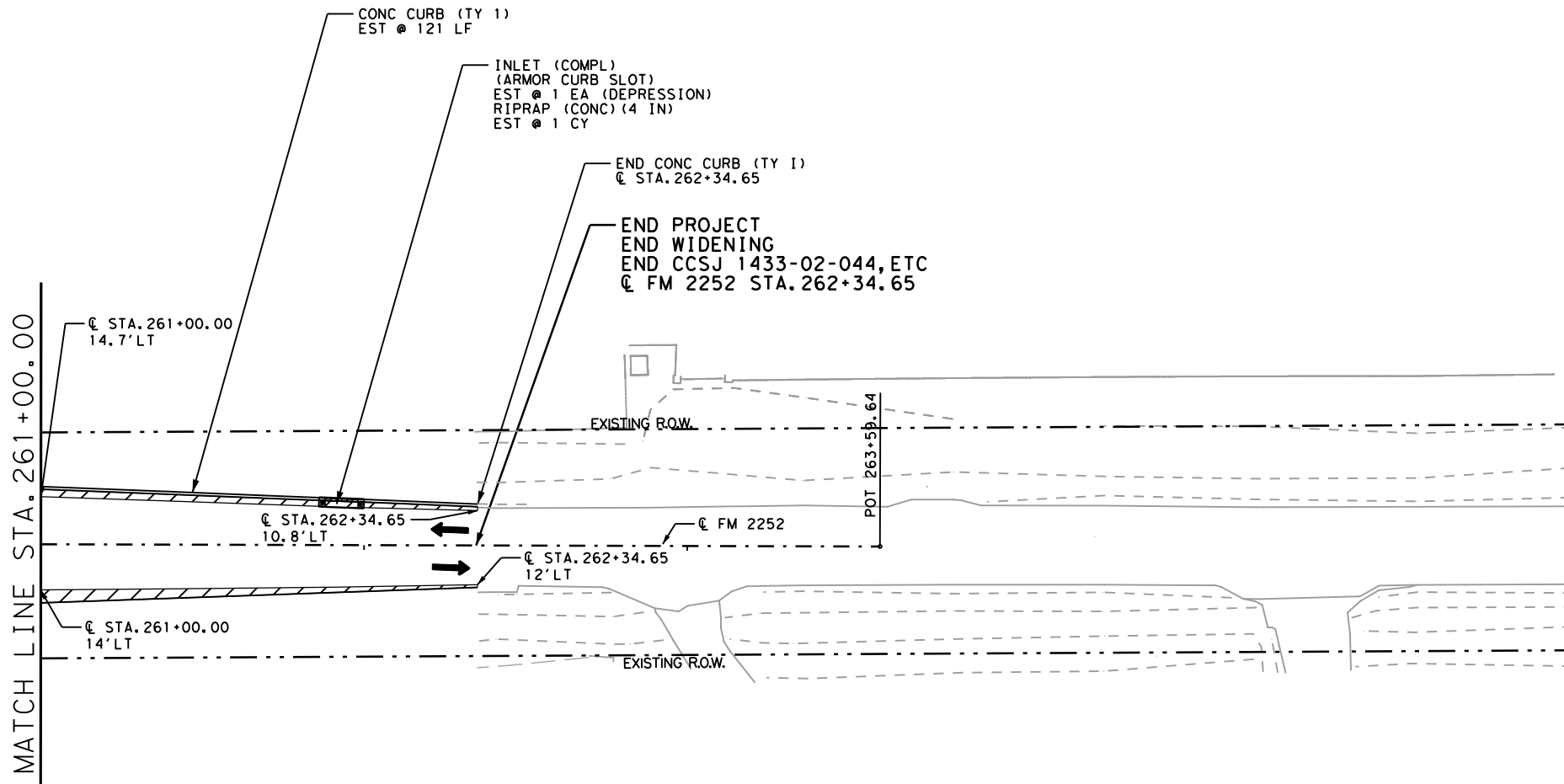
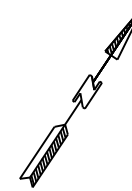
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CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
		COUNTY	SHEET NO.
SAT		COMAL, ETC	439

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 3009 INTER. WIDENING	324	93	452



NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
 SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT ARMOR CURB SLOTS AND INLET.

LEGEND

	DRIVEWAY NUMBER
	CONC RIPRAP
	COLORED TEXTURED CONCRETE
	WIDENING AREA
	S-MB SINGLE MAILBOX D-MB DOUBLE MAILBOX M-MB MULTIPLE MAILBOX

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	62
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	22
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	1
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	123
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	25
316-6414	AGGR (TY-B GR-5)	CY	1
432-6001	RIPRAP (CONC) (4 IN)	CY	1
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	1
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORED TEXTURED CONC (5")	SY	0
529-6001	CONC CURB (TY 1)	LF	121
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	0
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	32
3085-6001	UNDERSEAL COURSE	GAL	19
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 PLAN
 SHEETS



SHEET 27 OF 27			
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		440

REVISED 4/19/2023 SCALE: 1"=50'

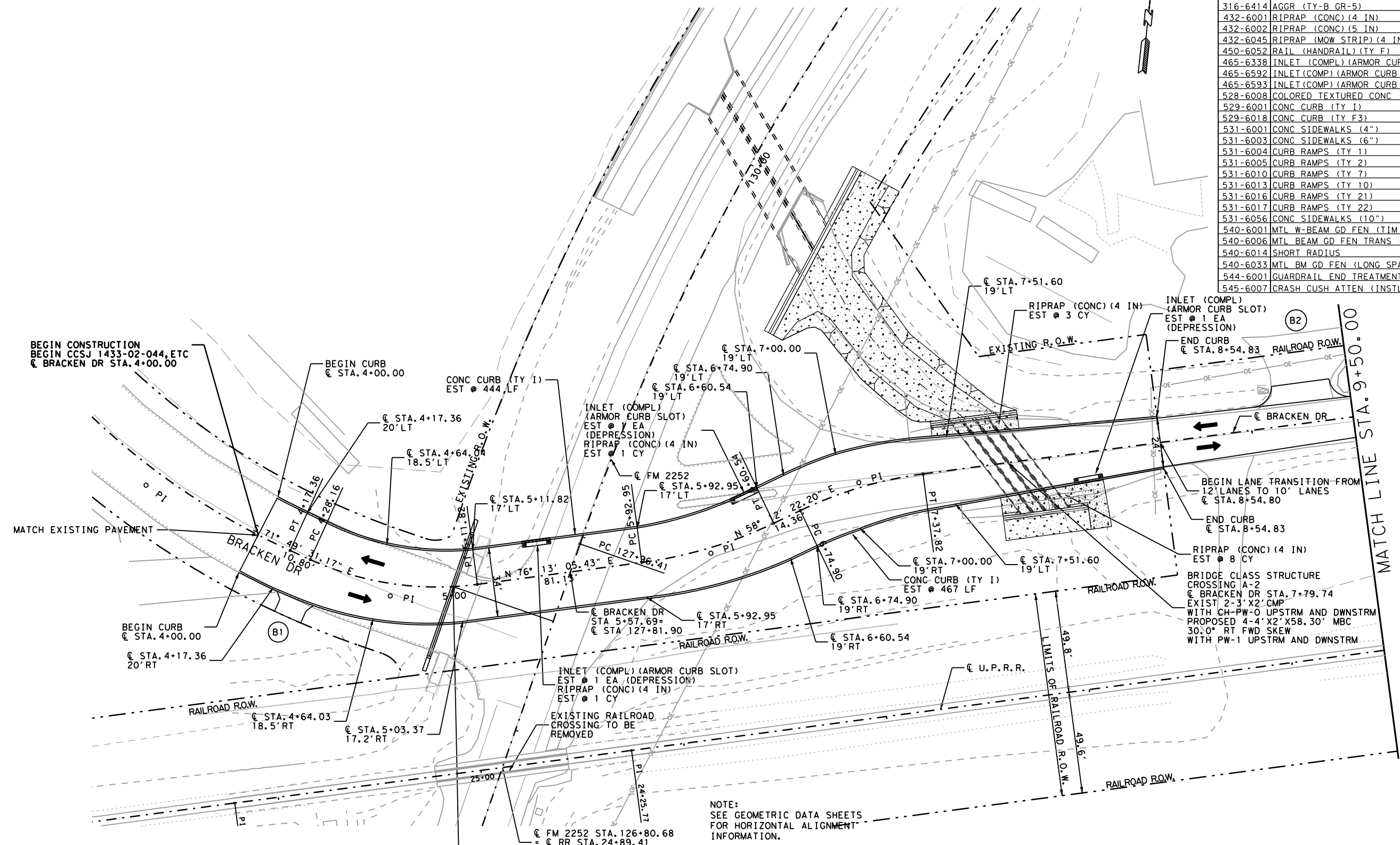
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	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
BRACKEN DR	SY 2138	SY 1975

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
3076-6066	TACK COAT	GAL	0
3085-6001	UNDERSEAL COURSE	GAL	428
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	812
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	295
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL PO	CY	636
260-6016	LIME (HYD, COM, OR OK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	428
316-6414	AGGR (TY-B GR-5)	CY	15
432-6001	RIPRAP (CONC) (4 IN)	CY	13
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	3
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLOR TEXTURED CONC (5")	SY	0
529-6001	CONC CURB (TY I)	LF	911
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	0
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0



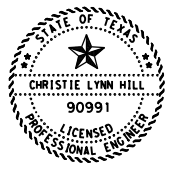
NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

- LEGEND**
- (1) DRIVEWAY NUMBER
 - [Pattern] CONC RIPRAP

BRACKEN DR STRUCTURE #1
 @ BRACKEN DR STA 5+00.00
 EXIST 1-CMP (GAL STL DES 2) X 53.25'
 TO BE REMOVED AND REPLACED WITH
 PROP 1-CMP AR (GAL STL DES 2) X 63.00'
 WITH SET (TY II) (DES 2) (CMP) (6:1) (C)
 UPSTREAM AND DOWNSTREAM



Christie Lynn Hill, P.E.

04/20/2023

**BRACKEN DR/
 GOLL ST
 PLAN SHEETS**



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY	SHEET NO.	
SAT	COMAL, ETC	441	

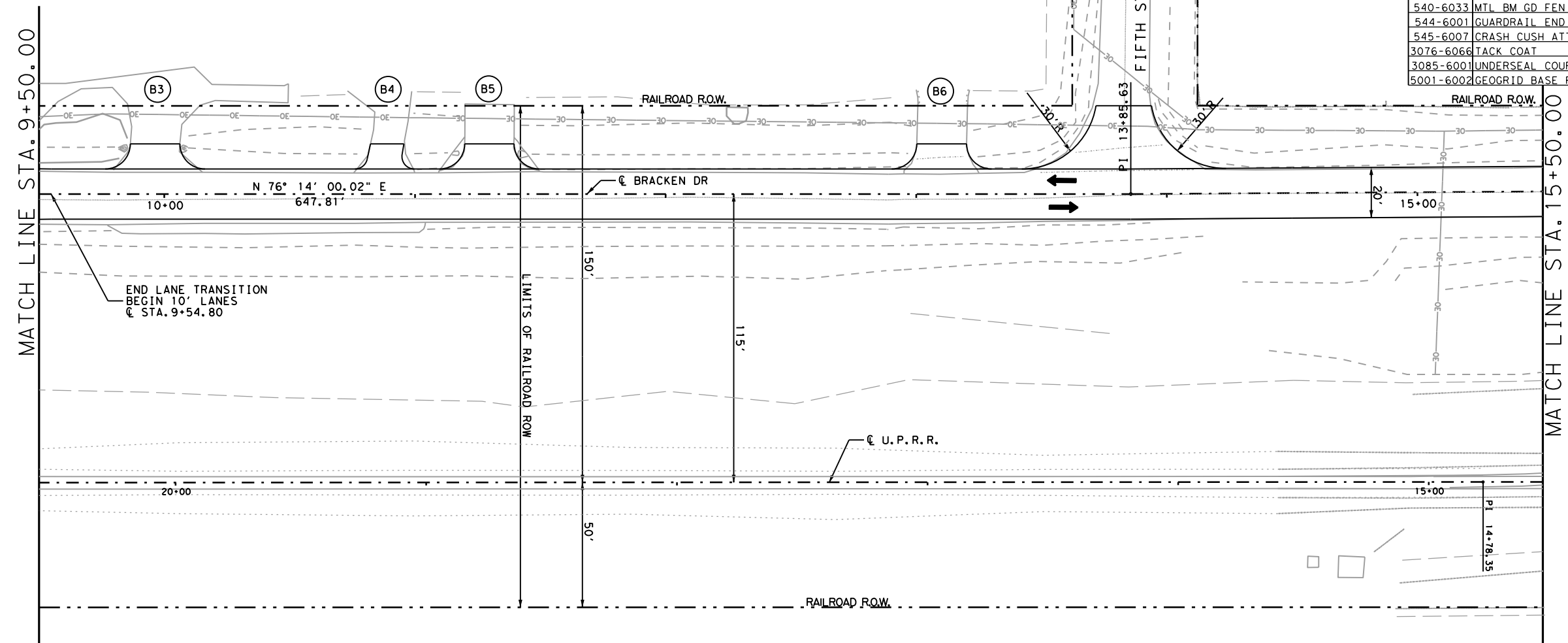
REVISED 4/19/2023 SCALE: 1"=50'

DATE: 04/19/2023 10:00 AM
 FILE: \\txdot\project\wiseonline.com\TXDOT14\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Set\3. Roadway\Plan Sheets\BrackenPlan2.dgn

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY
BRACKEN DR	1400	1333

QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	601
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	28
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	435
260-6016	LIME (HYD, COM, OR OK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	280
316-6414	AGGR (TY-B GR-5)	CY	10
432-6001	RIPRAP (CONC) (4 IN)	CY	0
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	0
529-6001	CONC CURB (TY I)	LF	0
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	0
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	0
3085-6001	UNDERSEAL COURSE	GAL	280
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0



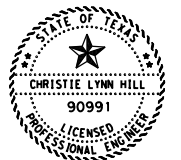
END LANE TRANSITION
 BEGIN 10' LANES
 @ STA. 9+54.80

NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

LEGEND

- ① DRIVEWAY NUMBER
- ▣ CONC RIPRAP



Christie Lynn Hill, P.E.

04/20/2023

BRACKEN DR/
 GOLL ST
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		442

REVISED 4/19/2023

SCALE: 1"=50'

DATE: 04/19/2023 10:00 AM
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

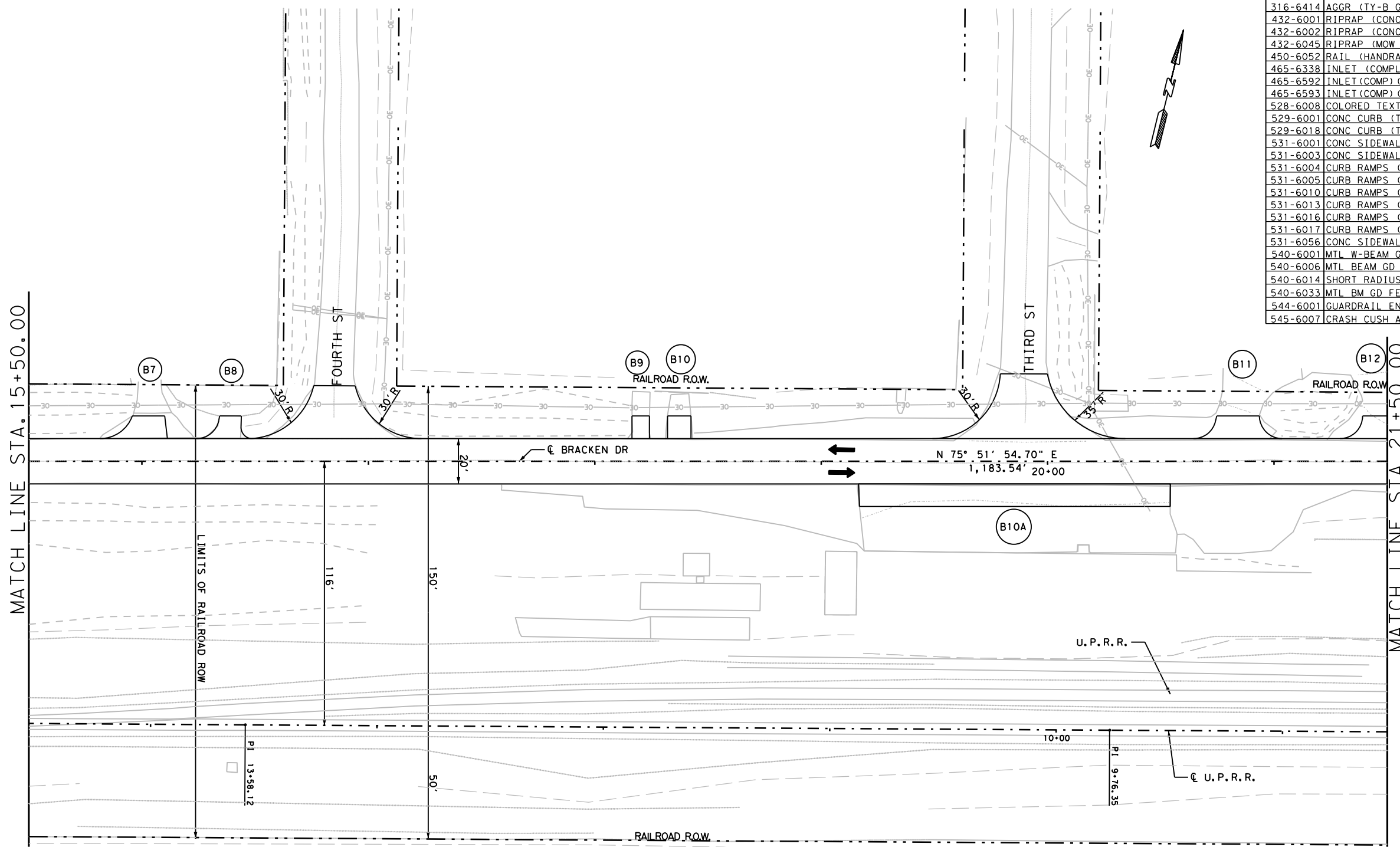
	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY
BRACKEN DR	1400	1333

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
3076-6066 TACK COAT	GAL	0
3085-6001 UNDERSEAL COURSE	GAL	280
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	578
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	36
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	435
260-6016 LIME (HYD, COM, OR OK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	0
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	280
316-6414 AGGR (TY-B GR-5)	CY	10
432-6001 RIPRAP (CONC) (4 IN)	CY	0
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	EA	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	0
529-6001 CONC CURB (TY I)	LF	0
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	0
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTN (INSTL) (L) (N) (TL3)	EA	0

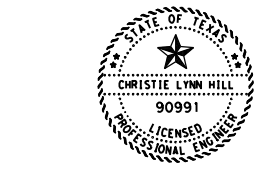


NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

LEGEND

- ① DRIVEWAY NUMBER
- ▣ CONC RIPRAP



Christie Lynn Hill, P.E.

04/20/2023

BRACKEN DR/
 GOLL ST
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		443

REVISED 4/19/2023

SCALE: 1"=50'

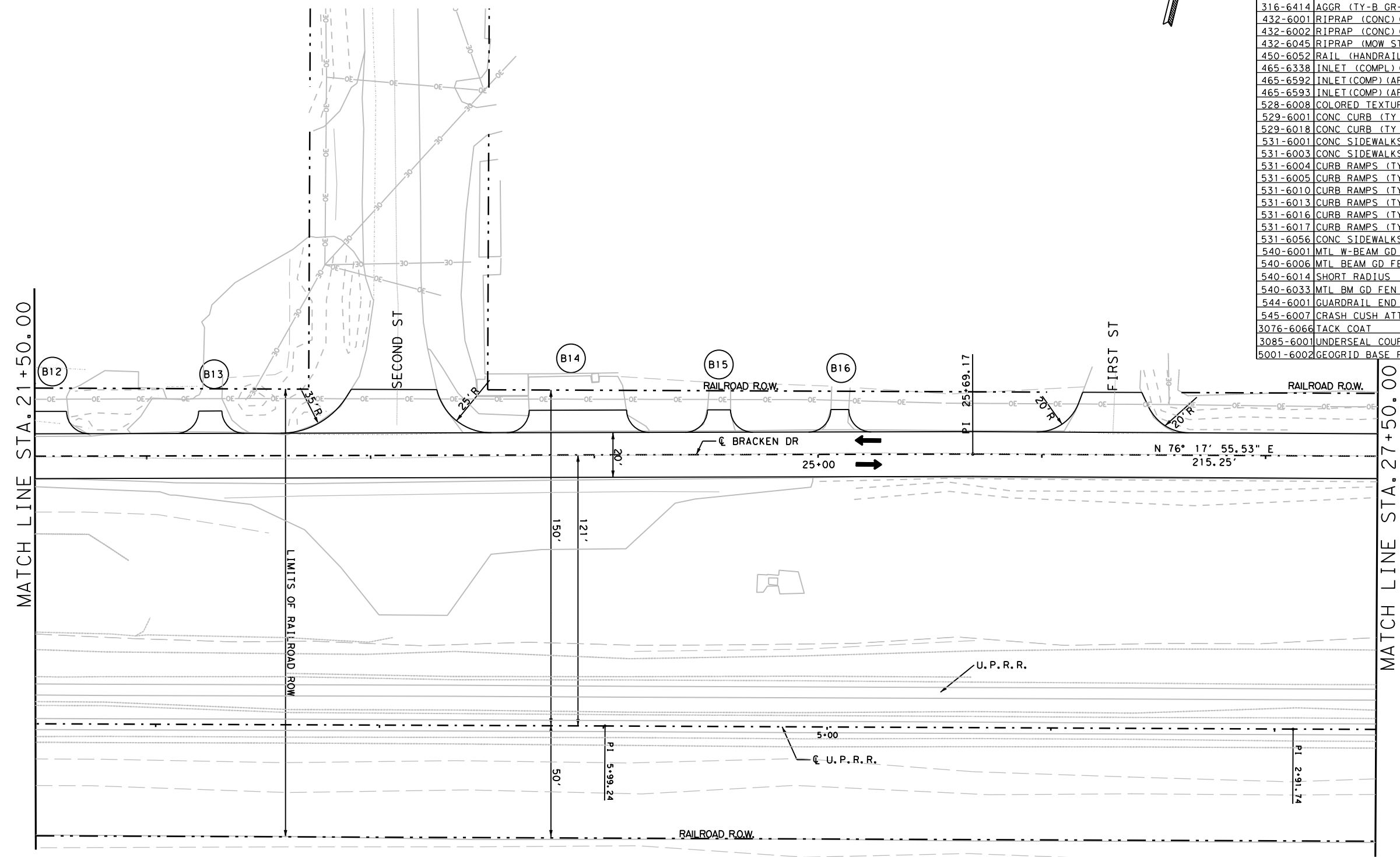
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	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
	SY	SY
BRACKEN DR	1400	1333

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON



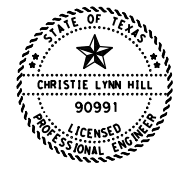
QUANTITY SUMMARY CSJ 1433-02-044			
ITEM	UNIT	TOTAL	
110-6001	EXCAVATION (ROADWAY)	CY	537
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	33
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	435
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079	LIME TRT (SUBGRADE) (6")	SY	0
275-6001	CEMENT	TON	0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY	0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL	280
316-6414	AGGR (TY-B GR-5)	CY	10
432-6001	RIPRAP (CONC) (4 IN)	CY	0
432-6002	RIPRAP (CONC) (5 IN)	CY	0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052	RAIL (HANDRAIL) (TY F)	LF	0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008	COLORLED TEXTURED CONC (5")	SY	0
529-6001	CONC CURB (TY I)	LF	0
529-6018	CONC CURB (TY F3)	LF	0
531-6001	CONC SIDEWALKS (4")	SY	0
531-6003	CONC SIDEWALKS (6")	SY	0
531-6004	CURB RAMPS (TY 1)	EA	0
531-6005	CURB RAMPS (TY 2)	EA	0
531-6010	CURB RAMPS (TY 7)	EA	0
531-6013	CURB RAMPS (TY 10)	EA	0
531-6016	CURB RAMPS (TY 21)	EA	0
531-6017	CURB RAMPS (TY 22)	EA	0
531-6056	CONC SIDEWALKS (10")	SY	0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014	SHORT RADIUS	LF	0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007	CRASH CUSH ATTN (INSL) (L) (N) (TL3)	EA	0
3076-6066	TACK COAT	GAL	0
3085-6001	UNDERSEAL COURSE	GAL	280
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY	0



NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

- LEGEND
- ① DRIVEWAY NUMBER
 - ▣ CONC RIPRAP



Christie Lynn Hill, P.E.

04/20/2023

BRACKEN DR/
 GOLL ST
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		444

REVISED 4/19/2023

SCALE: 1"=50'

DATE: 04/19/2023 10:01 AM
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

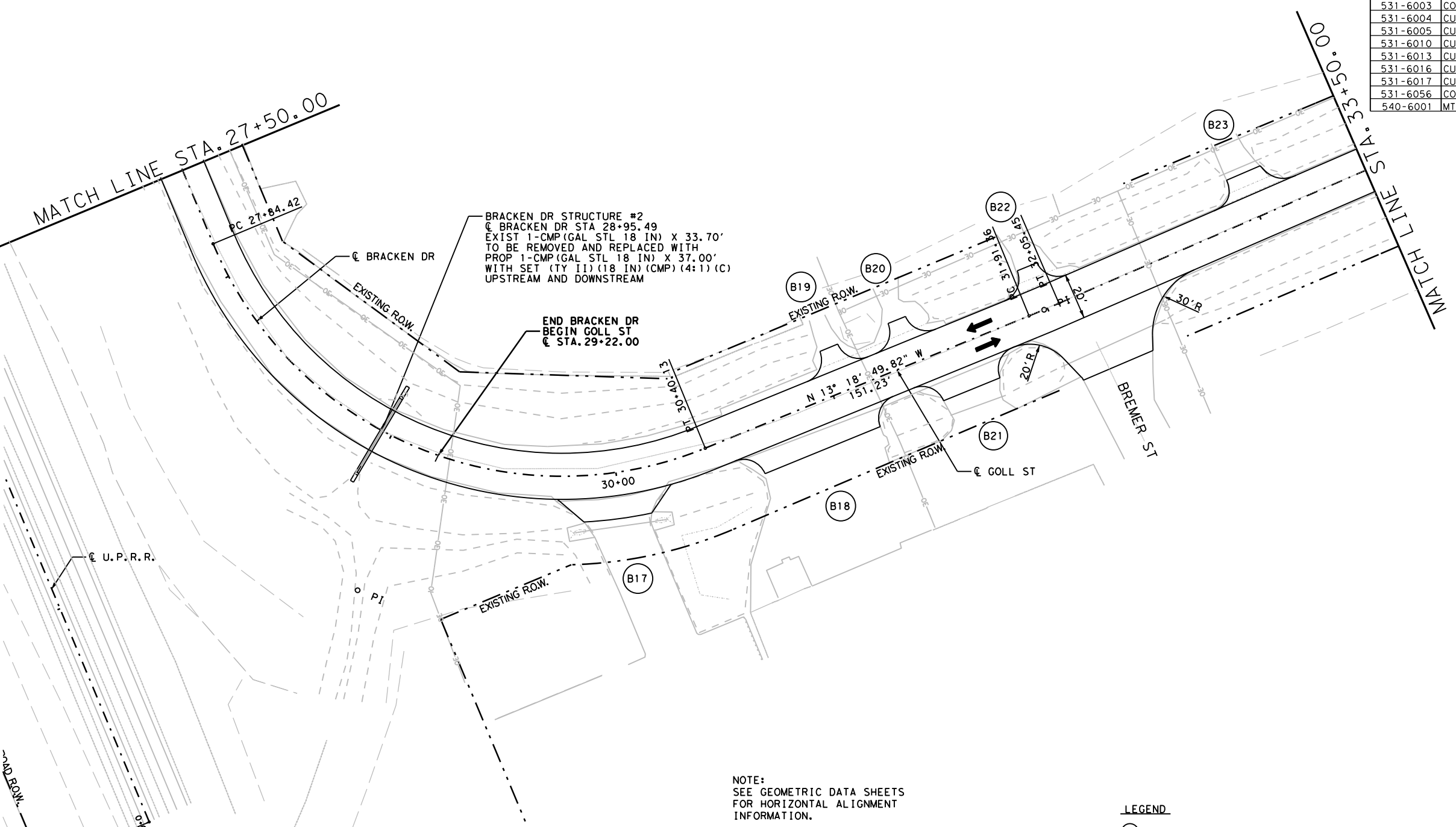
	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
BRACKEN DR	1400	1333

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNITY	TOTAL
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 0
3085-6001	UNDERSEAL COURSE	GAL 280
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNITY	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 556
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 35
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 435
260-6016	LIME (HYD, COM, OR QK (SLURRY))	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 280
316-6414	AGGR (TY-B GR-5)	CY 10
432-6001	RIPRAP (CONC) (4 IN)	CY 0
432-6002	RIPRAP (CONC) (5 IN)	CY 0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 0
450-6052	RAIL (HANDRAIL) (TY F)	LF 0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 0
465-6592	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA 0
465-6593	INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 0
529-6001	CONC CURB (TY 1)	LF 0
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 0
531-6003	CONC SIDEWALKS (6")	SY 0
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF 0



BRACKEN DR STRUCTURE #2
 @ BRACKEN DR STA 28+95.49
 EXIST 1-CMP (GAL STL 18 IN) X 33.70'
 TO BE REMOVED AND REPLACED WITH
 PROP 1-CMP (GAL STL 18 IN) X 37.00'
 WITH SET (TY II) (18 IN) (CMP) (4:1) (C)
 UPSTREAM AND DOWNSTREAM

END BRACKEN DR
 BEGIN GOLL ST
 @ STA. 29+22.00

NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

 SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

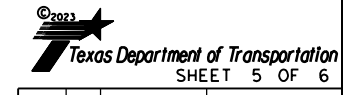
LEGEND
 ① DRIVEWAY NUMBER
 [Symbol] CONC RIPRAP



Christie Lynn Hill, P.E.

04/20/2023

BRACKEN DR/
 GOLL ST
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
SAT		COTAL, ETC	445

REVISED 4/19/2023 SCALE: 1"=50'

DATE: 04/19/2023 10:02 AM
 FILE: \\txdot\project\wiseon\line.com:TXDOT14\Documents\15 - SAT\Design Projects\143302044\4 - Design\Plan Sheets\BrackenPlan6.dgn

ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
BRACKEN DR	1113	1066

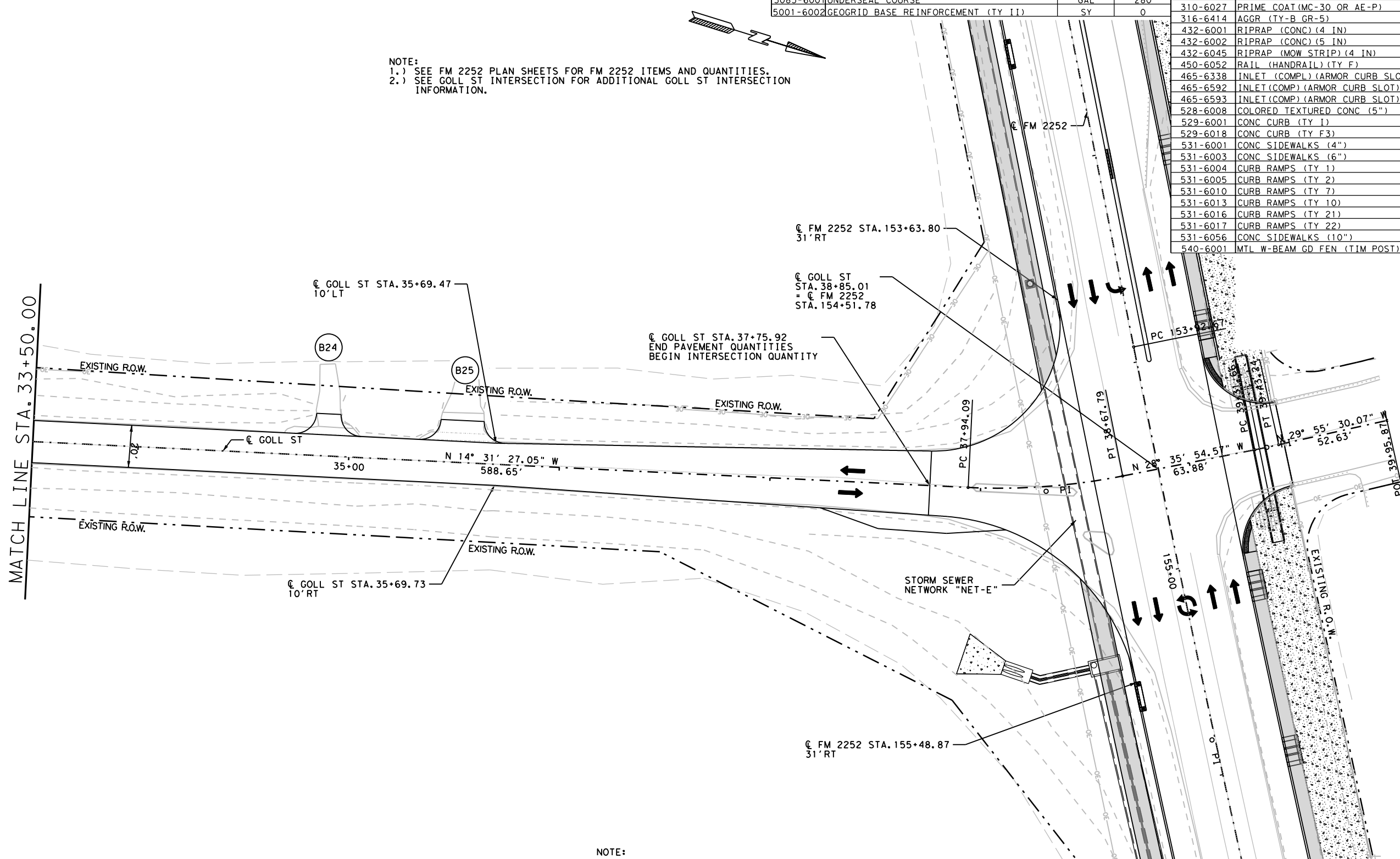
QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
540-6006	MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA 0
540-6014	SHORT RADIUS	LF 0
540-6033	MTL BM GD FEN (LONG SPAN SYSTEM)	EA 0
544-6001	GUARDRAIL END TREATMENT (INSTALL)	EA 0
545-6007	CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA 0
3076-6066	TACK COAT	GAL 0
3085-6001	UNDERSEAL COURSE	GAL 280
5001-6002	GEOGRID BASE REINFORCEMENT (TY II)	SY 0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001	EXCAVATION (ROADWAY)	CY 494
132-6003	EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY 11
247-6475	FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY 335
260-6016	LIME (HYD, COM, OR QK) (SLURRY)	TON 0
260-6079	LIME TRT (SUBGRADE) (6")	SY 0
275-6001	CEMENT	TON 0
275-6019	CEMENT TREAT (SUBGRADE) (6")	SY 0
310-6027	PRIME COAT (MC-30 OR AE-P)	GAL 222
316-6414	AGGR (TY-B GR-5)	CY 8
432-6001	RIPRAP (CONC) (4 IN)	CY 0
432-6002	RIPRAP (CONC) (5 IN)	CY 0
432-6045	RIPRAP (MOW STRIP) (4 IN)	CY 0
450-6052	RAIL (HANDRAIL) (TY F)	LF 0
465-6338	INLET (COMPL) (ARMOR CURB SLOT)	EA 0
465-6592	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA 0
465-6593	INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA 0
528-6008	COLORLED TEXTURED CONC (5")	SY 0
529-6001	CONC CURB (TY 1)	LF 0
529-6018	CONC CURB (TY F3)	LF 0
531-6001	CONC SIDEWALKS (4")	SY 0
531-6003	CONC SIDEWALKS (6")	SY 0
531-6004	CURB RAMPS (TY 1)	EA 0
531-6005	CURB RAMPS (TY 2)	EA 0
531-6010	CURB RAMPS (TY 7)	EA 0
531-6013	CURB RAMPS (TY 10)	EA 0
531-6016	CURB RAMPS (TY 21)	EA 0
531-6017	CURB RAMPS (TY 22)	EA 0
531-6056	CONC SIDEWALKS (10")	SY 0
540-6001	MTL W-BEAM GD FEN (TIM POST)	LF 0

NOTE:
 1.) SEE FM 2252 PLAN SHEETS FOR FM 2252 ITEMS AND QUANTITIES.
 2.) SEE GOLL ST INTERSECTION FOR ADDITIONAL GOLL ST INTERSECTION INFORMATION.

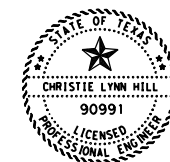


NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE DRIVEWAY DETAILS
 AND SUMMARY SHEETS FOR
 DRIVEWAY DETAILS AND
 QUANTITIES.

LEGEND

- ① DRIVEWAY NUMBER
- ▨ CONC RIPRAP



Christie Lynn Hill, P.E.

04/20/2023

BRACKEN DR/
 GOLL ST
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		446

REVISED 4/19/2023

SCALE: 1"=50'

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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

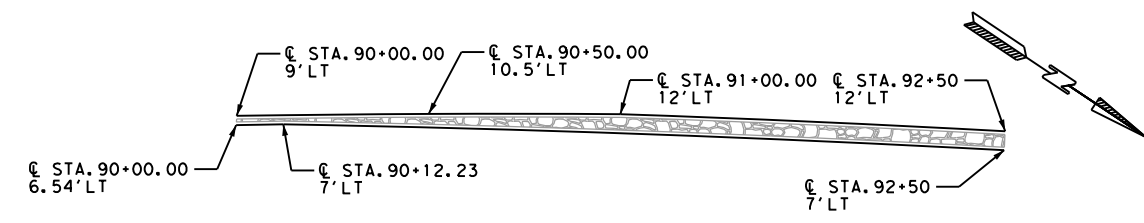
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 3009 INTER. WIDENING	2017	646	4713

QUANTITY SUMMARY CSJ 1433-02-044

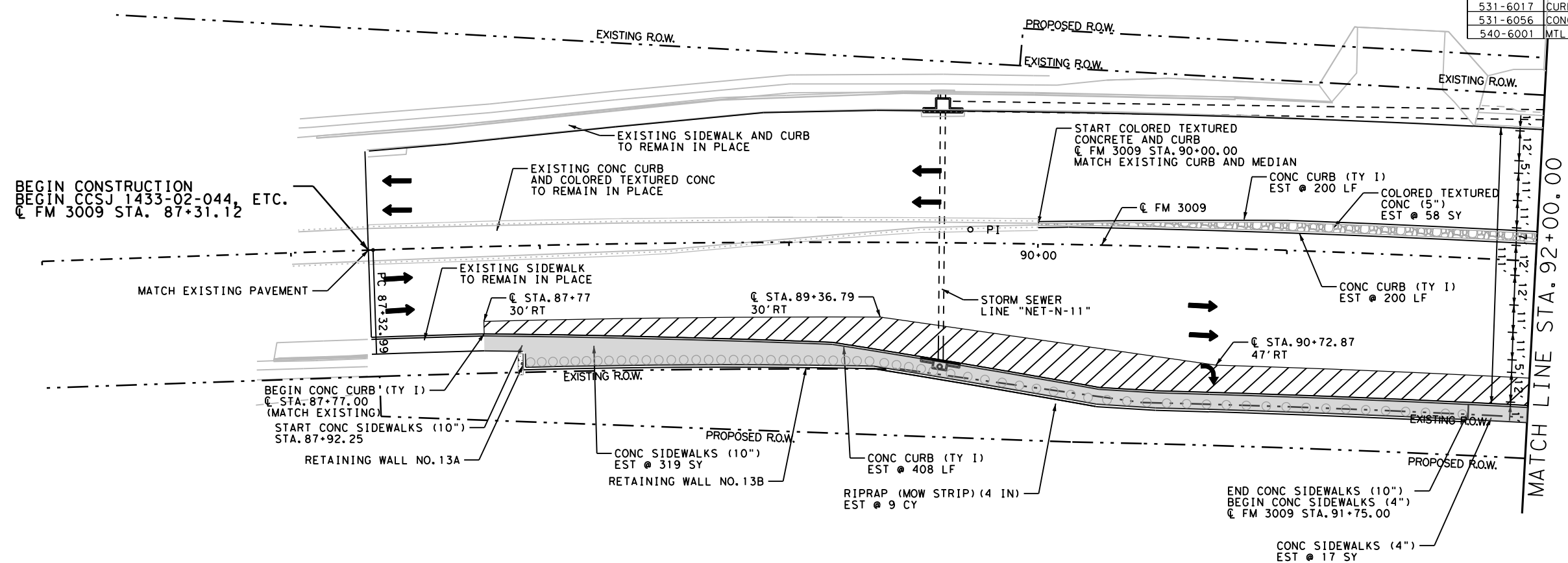
ITEM	UNIT	TOTAL
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTEN (INSTL) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	202
3085-6001 UNDERSEAL COURSE	GAL	129
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044

ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	719
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	1232
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016 LIME (HYD, COM, OR QK (SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	4
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	699
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	140
316-6414 AGGR (TY-B GR-5)	CY	5
432-6001 RIPRAP (CONC) (4 IN)	CY	0
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	9
450-6052 RAIL (HANDRAIL) (TY F)	EA	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	58
529-6001 CONC CURB (TY I)	LF	808
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	17
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	319
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0



MEDIAN DETAILS
SEE FM 3009 PLAN SHEET 2
FOR ADDITIONAL MEDIAN DETAILS



BEGIN CONSTRUCTION
BEGIN CCSJ 1433-02-044, ETC.
FM 3009 STA. 87+31.12

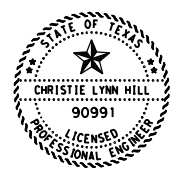
MATCH LINE STA. 92+00.00

NOTE:
SEE GEOMETRIC DATA SHEETS
FOR HORIZONTAL ALIGNMENT
INFORMATION.

SEE MISCELLANEOUS CURB AND
SIDEWALK DETAILS FOR
SIDEWALK AND CURB DETAILS.

SEE RETAINING WALL LAYOUTS
FOR RETAINING WALL DETAILS.

- LEGEND**
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE
 - WIDENING AREA
 - S-MB SINGLE MAILBOX
D-MB DOUBLE MAILBOX
M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

**FM 3009
PLAN SHEETS**



REVISED 4/19/2023

SCALE: 1"=50'

CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		447

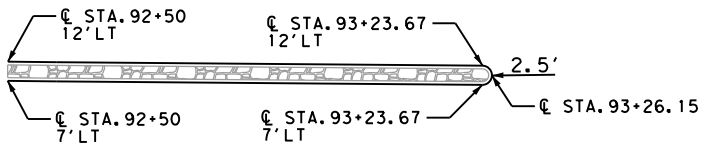
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

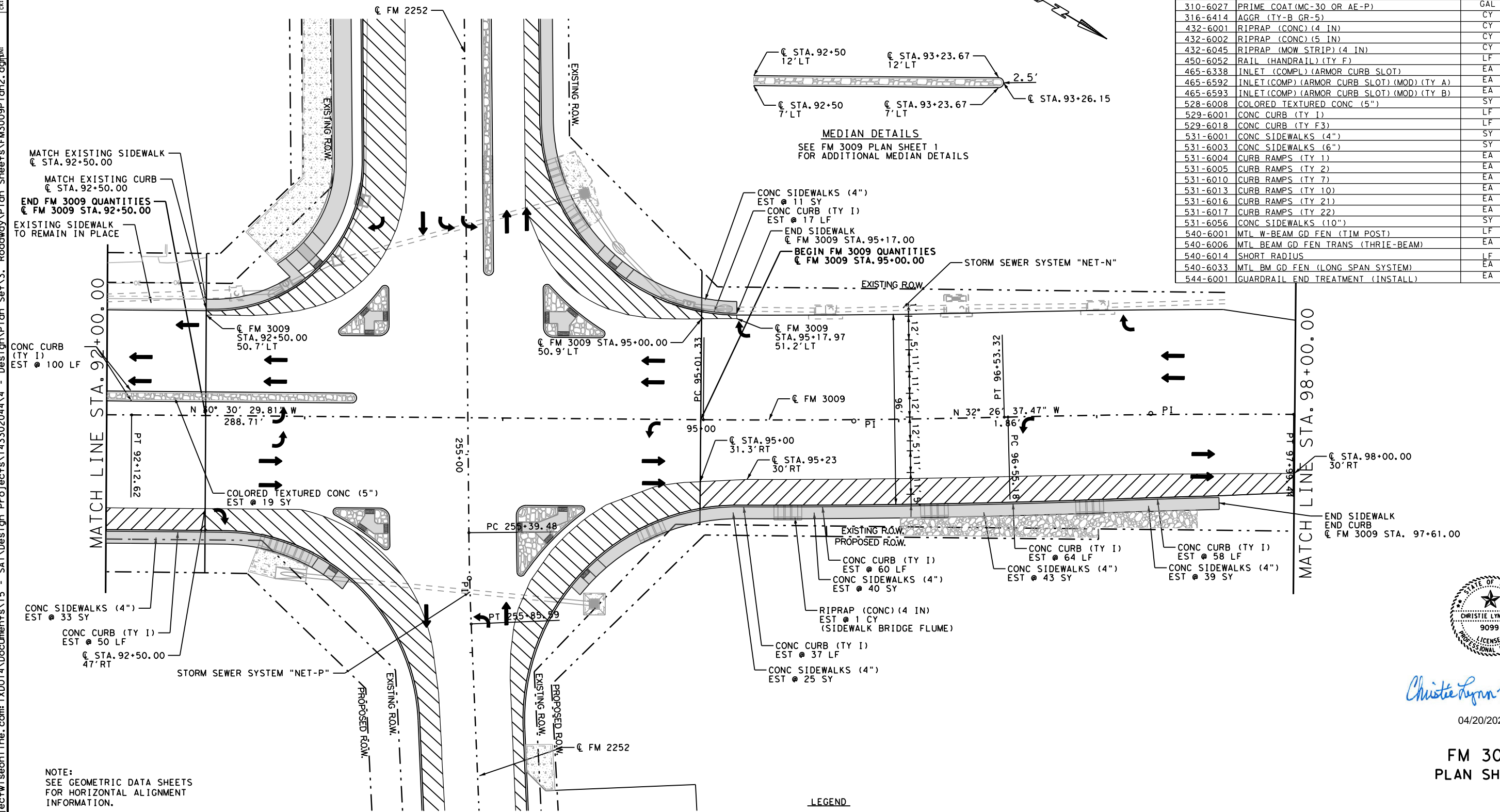
	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 3009 INTER. WIDENING	1683	541	3760

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
545-6007 CRASH CUSH ATTEN (INSTR) (L) (N) (TL3)	EA	0
3076-6066 TACK COAT	GAL	168
3085-6001 UNDERSEAL COURSE	GAL	108
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	1067
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	215
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016 LIME (HYD, COM, OR QK) (SLURRY)	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	4
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	580
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	116
316-6414 AGGR (TY-B GR-5)	CY	4
432-6001 RIPRAP (CONC) (4 IN)	CY	1
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMPL) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	19
529-6001 CONC CURB (TY I)	LF	386
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	191
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0



MEDIAN DETAILS
 SEE FM 3009 PLAN SHEET 1
 FOR ADDITIONAL MEDIAN DETAILS



- LEGEND
- DRIVEWAY NUMBER
 - CONC RIPRAP
 - COLORED TEXTURED CONCRETE
 - WIDENING AREA
 - S-MB SINGLE MAILBOX
 - D-MB DOUBLE MAILBOX
 - M-MB MULTIPLE MAILBOX

NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.
 SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.
 SEE INTERSECTION LAYOUTS FOR
 INTERSECTION DETAILS.
 SEE MISCELLANEOUS DRAINAGE DETAILS
 FOR RIPRAP DETAILS AT ARMOR CURB SLOTS AND INLET.



Christie Lynn Hill, P.E.

04/20/2023

FM 3009
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		448

REVISED 4/19/2023

SCALE: 1"=50'

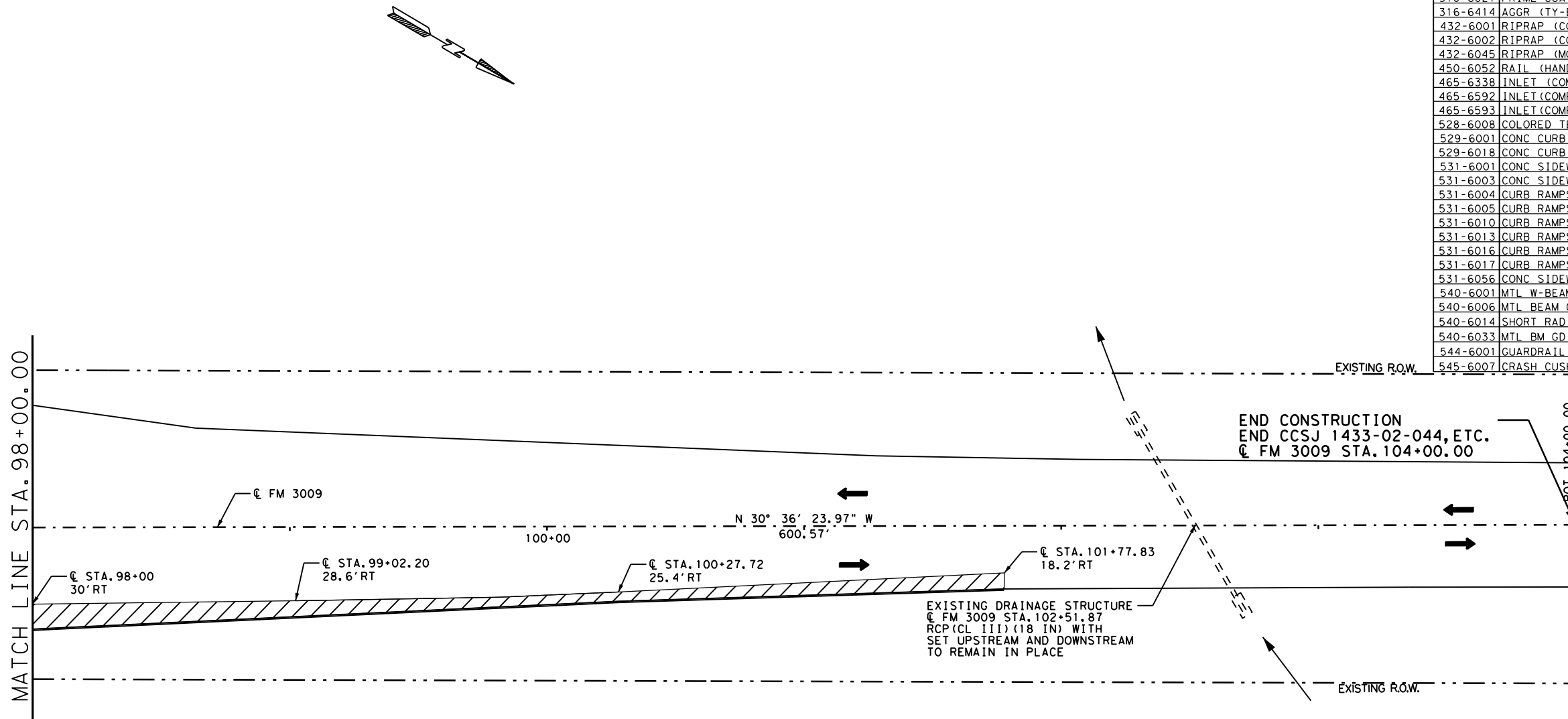
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ASPHALT QUANTITIES FOR CONTRACTOR'S INFORMATION
 SEE THE BASIS OF ESTIMATE FOR QUANTITIES BY THE TON

	D-GR HMA TY-B PG64-22	D-GR HMA TY-C PG70-22	SP MIXES SP-D SAC-B PG70-22
FM 3009 INTER. WIDENING	833	257	3953

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
3076-6066 TACK COAT	GAL	83
3085-6001 UNDERSEAL COURSE	GAL	51
5001-6002 GEOGRID BASE REINFORCEMENT (TY II)	SY	0

QUANTITY SUMMARY CSJ 1433-02-044		
ITEM	UNIT	TOTAL
110-6001 EXCAVATION (ROADWAY)	CY	185
132-6003 EMBANKMENT (FINAL) (ORD COMP) (TY B)	CY	2
247-6475 FL BS (CIP) (TY D GR 1-2, OR 5) FINAL POS	CY	0
260-6016 LIME (HYD, COM, OR QK(SLURRY))	TON	0
260-6079 LIME TRT (SUBGRADE) (6")	SY	0
275-6001 CEMENT	TON	2
275-6019 CEMENT TREAT (SUBGRADE) (6")	SY	299
310-6027 PRIME COAT (MC-30 OR AE-P)	GAL	60
316-6414 AGGR (TY-B GR-5)	CY	2
432-6001 RIPRAP (CONC) (4 IN)	CY	0
432-6002 RIPRAP (CONC) (5 IN)	CY	0
432-6045 RIPRAP (MOW STRIP) (4 IN)	CY	0
450-6052 RAIL (HANDRAIL) (TY F)	LF	0
465-6338 INLET (COMPL) (ARMOR CURB SLOT)	EA	0
465-6592 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY A)	EA	0
465-6593 INLET (COMP) (ARMOR CURB SLOT) (MOD) (TY B)	EA	0
528-6008 COLORED TEXTURED CONC (5")	SY	0
529-6001 CONC CURB (TY 1)	LF	0
529-6018 CONC CURB (TY F3)	LF	0
531-6001 CONC SIDEWALKS (4")	SY	0
531-6003 CONC SIDEWALKS (6")	SY	0
531-6004 CURB RAMPS (TY 1)	EA	0
531-6005 CURB RAMPS (TY 2)	EA	0
531-6010 CURB RAMPS (TY 7)	EA	0
531-6013 CURB RAMPS (TY 10)	EA	0
531-6016 CURB RAMPS (TY 21)	EA	0
531-6017 CURB RAMPS (TY 22)	EA	0
531-6056 CONC SIDEWALKS (10")	SY	0
540-6001 MTL W-BEAM GD FEN (TIM POST)	LF	0
540-6006 MTL BEAM GD FEN TRANS (THRIE-BEAM)	EA	0
540-6014 SHORT RADIUS	LF	0
540-6033 MTL BM GD FEN (LONG SPAN SYSTEM)	EA	0
544-6001 GUARDRAIL END TREATMENT (INSTALL)	EA	0
545-6007 CRASH CUSH ATTEN (INSL) (L) (N) (TL3)	EA	0

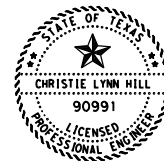


NOTE:
 SEE GEOMETRIC DATA SHEETS
 FOR HORIZONTAL ALIGNMENT
 INFORMATION.

SEE MISCELLANEOUS CURB AND
 SIDEWALK DETAILS FOR
 SIDEWALK AND CURB DETAILS.

LEGEND

- DRIVWAY NUMBER
- CONC RIPRAP
- COLORED TEXTURED CONCRETE
- WIDENING AREA
- S-MB SINGLE MAILBOX
- D-MB DOUBLE MAILBOX
- M-MB MULTIPLE MAILBOX



Christie Lynn Hill, P.E.

04/20/2023

FM 3009
 PLAN SHEETS



CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		449

REVISED 4/19/2023

SCALE: 1"=50'

CKE
DWF
CKE
DWF

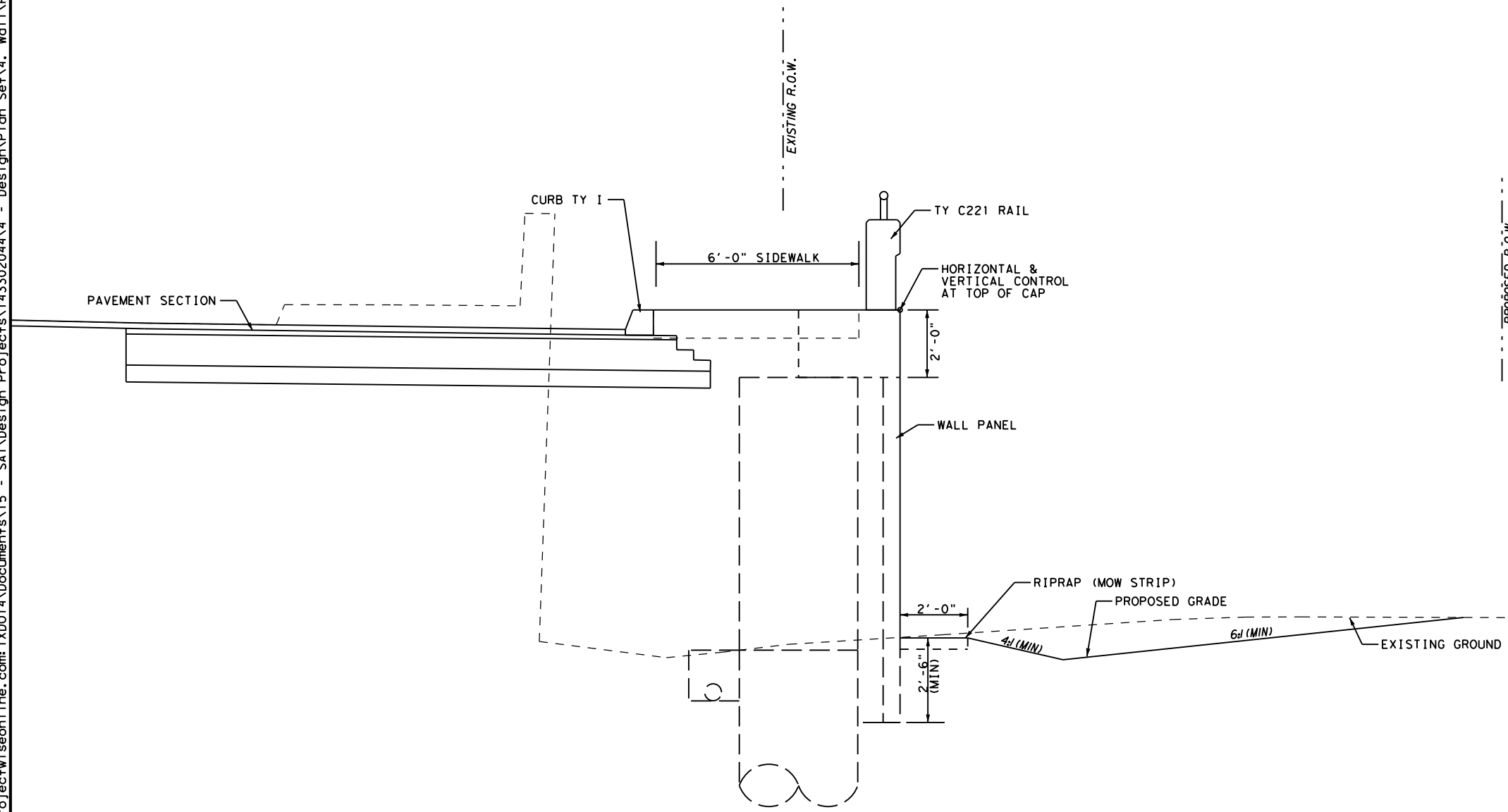
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ITEM 416 - DRILLED SHAFT NOTES:

- 1) STAKE ALL FOUNDATIONS, FOR APPROVAL, BEFORE BEGINNING DRILLING OPERATIONS.
- 2) DRILLED SHAFT CONSTRUCTION SHOULD BE SEQUENCED BY CONSTRUCTING EVERY OTHER SHAFT PRIOR TO BEGINNING ANY WORK ON THE INTERMEDIATE DRILLED SHAFTS. DRILLED SHAFT INSTALLATION PLAN SHOULD BE PROVIDED WITH THE DETAILS OF EXCAVATION SEQUENCE AND PERMANENT CASING INSTALLATION METHOD INCLUDED.
- 3) OVER SIZE HOLE DIAMETER IS NOT ALLOWED FOR THE PURPOSE OF FREE FALL PERMANENT CASING INSTALLATION.
- 4) CONTRACTOR WILL ENSURE THAT ADEQUATE SOIL CONDITIONS EXIST PRIOR TO DRILLING OF A SHAFT ADJACENT TO A PREVIOUSLY CONCRETED SHAFT.

NOTES:

1. REFER TO TEST HOLE DATA SHEETS FOR BORING DETAILS.
2. REFER TO PROPOSED PLAN SHEETS FOR RIPRAP DETAILS AND QUANTITIES.
3. MSE WALL TOP PANEL OR PORTION OF IT WILL BE REMOVED IF NEEDED FOR PLACING NEW PAVEMENT SECTION. TRIMMER, JACK HAMMER OR SIMILAR EQUIPMENT WILL BE USED WITH APPROVAL FROM THE ENGINEER. CONTRACTOR WILL MAINTAIN THE STABILITY AND INTEGRITY OF EXISTING WALL WHILE REMOVING TOP PANEL. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND WILL BE SUBSIDIARY TO ITEM 423 "RETAINING WALL".
4. DO NOT DEMOLISH EXISTING RAIL AND COPING BEFORE DRILLED SHAFT INSTALLATION.
5. BACKFILL BEHIND THE WALL FASCIA WILL BE TYPE DS IN ACCORDANCE WITH PAY ITEM 423 "RETAINING WALL".
6. EACH LAYER OF BACKFILL SHOULD BE COMPACTED AS PER ORDINARY COMPACTION USING LIGHT WEIGHT MECHANICAL TAMPER OR ROLLER.
7. ALL RETAINING WALL AESTHETIC DETAILS WILL BE CONSIDERED SUBSIDIARY TO THE PAY ITEM "RETAINING WALL (DRILL SHAFT) (FACIA)" AND WILL BE A HILL COUNTRY THEME.
8. THE DRILL SHAFT WALL IS MEASURED BETWEEN TOP OF CAP TO 2'-6" BELOW PROPOSED FINISH GRADE.
9. SEE STORM DRAIN LAYOUTS FOR STORM DRAIN NETWORK "NET-N".
10. SEE THE UTILITY LAYOUTS FOR UTILITY LOCATIONS.
11. REFER TO RETAINING WALL GEOMETRIC DATA SHEETS FOR RETAINING WALL ALIGNMENT DATA.
12. SEE TYPE C221 STANDARD FOR RAIL (TY C221) DETAILS.
13. PLACE SELECT BACKFILL IN LIFTS TO CLOSELY FOLLOW THE ERECTION OF EACH ROW OF FASCIA PANELS.
14. VERIFY EACH ROW OF PANEL PLACEMENT FOR SPECIFICATION TOLERANCES AFTER BACKFILLING IS ACCOMPLISHED AND PRIOR TO PLACEMENT OF THE NEXT ROW OF PANELS. CORRECT TO WITHIN TOLERANCE PRIOR TO PLACING SUBSEQUENT ROWS OF PANELS.
15. CONTRACTOR WILL USE A LOW CLEARANCE RIG DUE TO OVERHEAD POWER LINES.



TYPICAL SECTION

RETAINING WALL NO. 13 @ STA. 87+92.19 TO STA. 91+78.77



Christie Lynn Hill, P.E.

04/20/2023

FM 2252
 RETAINING WALL
 NO. 13A AND 13B



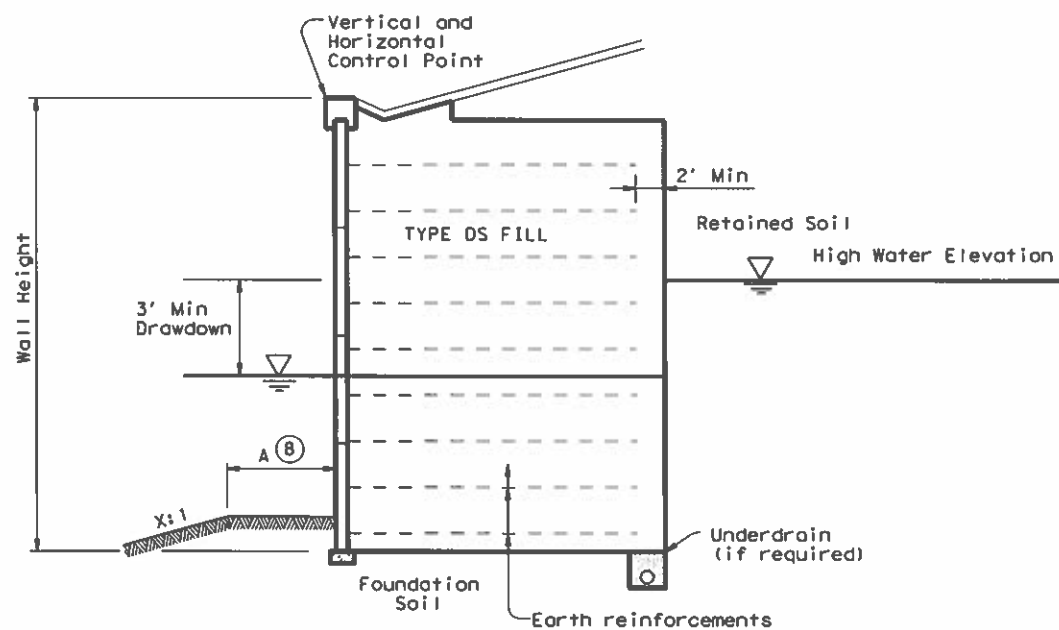
CONT	SECT	JOB	HIGHWAY
1433	02	044, ETC	FM 2252
DIST	COUNTY		SHEET NO.
SAT	COMAL, ETC		611

REVISED 4/19/2023 NOT TO SCALE

WALL SUMMARY

MSE Retaining Wall	Begin Station ①	End Station ①	Retained Soil Friction Angle ②	Foundation Soil Friction Angle ②	Ground Improvement ③	Min Earth Reinforcement Length ④	Min Wall Embedment ⑦	Underdrain Required ⑤	Drawdown Analysis ⑥	Bench Width ⑧
RW NO. 7	133+09	133+80	30	30	N/A	21'-0"	SEE LAYOUT.	REQUIRED	N/A	SEE PLAN.
	133+80	134+40	30	30	N/A	19'-0"	SEE LAYOUT.	REQUIRED	N/A	SEE PLAN.
	134+40	134+80	30	30	N/A	17'-0"	SEE LAYOUT.	REQUIRED	N/A	SEE PLAN.
	134+80	136+20	30	30	N/A	14'-0"	SEE LAYOUT.	REQUIRED	N/A	SEE PLAN.
	136+20	138+35	30	30	N/A	10'-0"	SEE LAYOUT.	REQUIRED	N/A	SEE PLAN.
RW NO. 8	133+09	133+60	30	30	N/A	20'-0"	5'-0"	REQUIRED	N/A	SEE PLAN.
	133+60	134+00	30	30	N/A	17'-0"	5'-0"	REQUIRED	N/A	SEE PLAN.
	134+00	134+60	30	30	N/A	15'-0"	5'-0"	REQUIRED	N/A	SEE PLAN.
	134+60	135+16	30	30	N/A	10'-0"	6'-0"	REQUIRED	N/A	SEE PLAN.
RW NO. 9	184+25	187+00	30	30	N/A	8'-0"	2'-0"	REQUIRED	YES	SEE PLAN.
	187+00	189+00	30	30	N/A	13'-0"	SEE LAYOUT.	REQUIRED	YES	SEE PLAN.
	189+00	191+00	30	30	N/A	10'-0"	SEE LAYOUT.	REQUIRED	YES	SEE PLAN.
	191+00	193+00	30	30	N/A	8'-0"	SEE LAYOUT.	REQUIRED	YES	SEE PLAN.
RW NO. 10	189+43	190+00	30	30	N/A	10'-0"	5'-0"	REQUIRED	YES	SEE PLAN.
	190+00	191+50	30	30	N/A	8'-0"	SEE LAYOUT.	REQUIRED	YES	SEE PLAN.
RW NO. 11	207+75	209+00	30	30	N/A	8'-0"	2'-0"	REQUIRED	N/A	SEE PLAN.
RW NO. 12A	236+21.8	236+51.2	30	30	N/A	8'-0"	3'-6"	REQUIRED	N/A	SEE PLAN.
RW NO. 12B	237+06	239+00	30	30	N/A	8'-0"	3'-6"	REQUIRED	N/A	SEE PLAN.

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TYPICAL SECTION
(RAPID DRAWDOWN CONDITION)

- ① Indicate limits for which the stated soil design requirements/assumptions are applicable.
- ② Retained and Foundation friction angle listed should be based on local experience or measured/correlated long term strength values.
- ③ Indicate if ground improvement is required or not required. If shown as required, refer to Ground Improvement Detail(s) for additional information.
- ④ Indicate on table minimum length and length ratio required. The minimum default length of earth reinforcements shall be either 8'-0" or 70% of the wall height, whichever is greater. Wall height and design wall height may differ depending on project geometry and loading conditions. Note: Wall height at bridge abutments is equal to the distance between the top of leveling pad and finished grade at the bridge abutment backwall.
- ⑤ Indicate if underdrain is required or not required.
- ⑥ Indicate if rapid drawdown analysis is required.
- ⑦ Guidance to wall designer of record for determination of minimum wall embedment: Unless noted elsewhere in the plans, the minimum embedment provided from the top of leveling pad to finish grade shall be 1' for level ground where there is no potential for erosion or future excavation or 2' for sloping ground (4.0H:1.0V or steeper) or where there is potential for removal of soil in front of the wall.
- ⑧ Horizontal Bench width at base of wall varies. Use the following criteria to establish base width.
 A = 2.0' Min for X > 4. or
 A = 4.0' Min for X ≤ 4.
 Applicable to both drawdown and dry condition.



4/24/2023

REVISD 4/19/2023



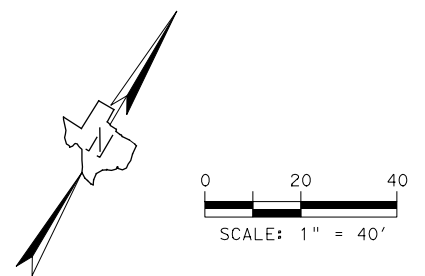
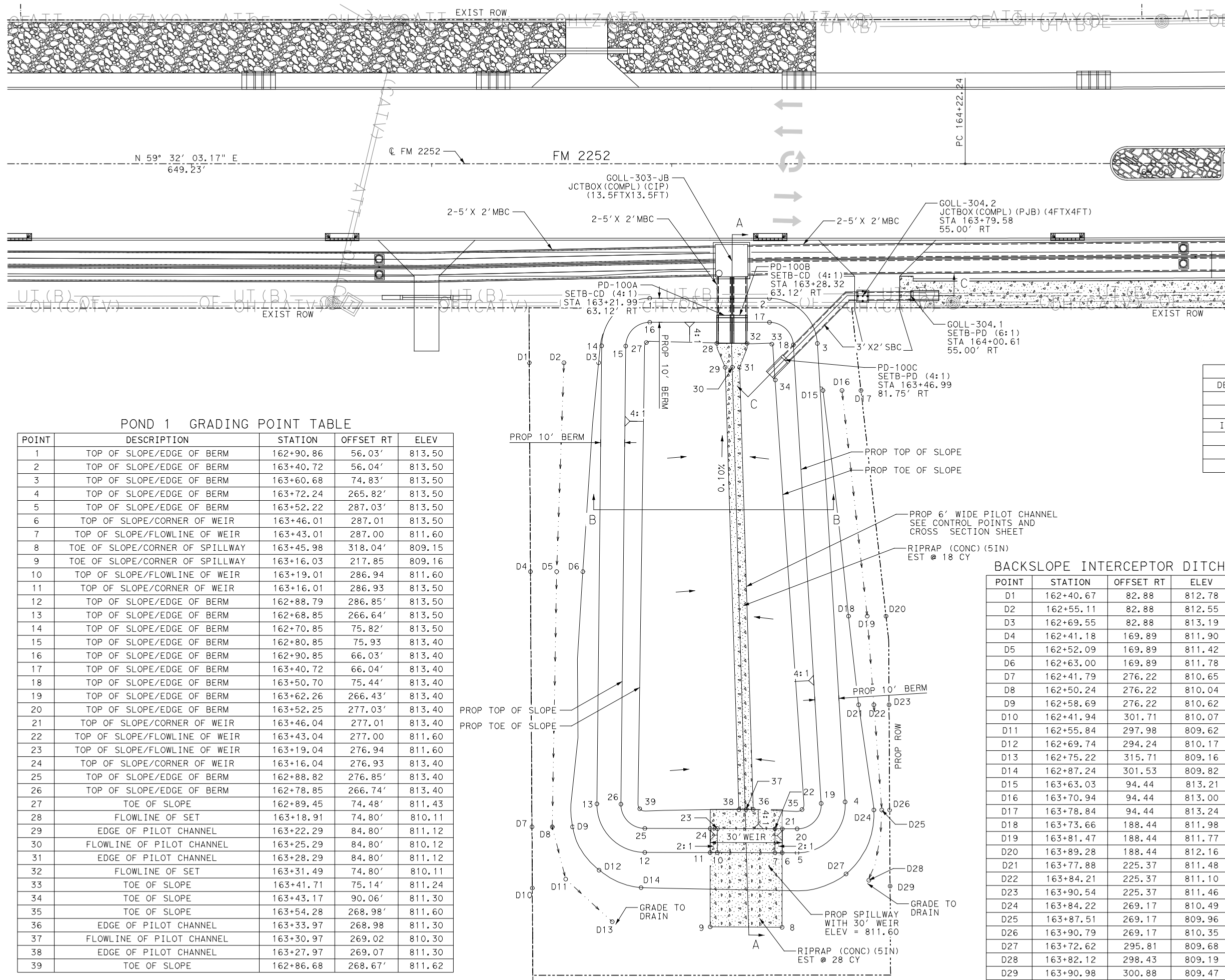
MECHANICALLY STABILIZED EARTH RETAINING WALL DESIGN DATA

RW(MSE)DD

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©TxDOT JANUARY 2021	CONT	SECT	JOB	HIGHWAY
REVISIONS	1433	02	044	FM 2252
	DIST	COUNTY	SHEET NO.	
	SAT	COMAL	620	

DATE: FILE:

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LEGEND

	XX" CONC RIPRAP
##o	GRADING CONTROL POINT

HYDRAULIC DATA 100-YR STORM

DETECTION BASIN	1
DESIGN STORAGE PROVIDED (AC-FT)	0.216
MAX PONDING ELEVATION (FT)	812.47
INFLOW/OUTFLOW CONDUIT SIZE	2-5' X 2'
INFLOW/OUTFLOW DISCHARGE (CFS)	14.0
TOP OF BANK ELEVATION (FT)	813.50
MIN BASIN ELEVATION (FT)	810.11
POND SURFACE AREA (AC)	0.51

POND 1 GRADING POINT TABLE

POINT	DESCRIPTION	STATION	OFFSET RT	ELEV
1	TOP OF SLOPE/EDGE OF BERM	162+90.86	56.03'	813.50
2	TOP OF SLOPE/EDGE OF BERM	163+40.72	56.04'	813.50
3	TOP OF SLOPE/EDGE OF BERM	163+60.68	74.83'	813.50
4	TOP OF SLOPE/EDGE OF BERM	163+72.24	265.82'	813.50
5	TOP OF SLOPE/EDGE OF BERM	163+52.22	287.03'	813.50
6	TOP OF SLOPE/CORNER OF WEIR	163+46.01	287.01	813.50
7	TOP OF SLOPE/FLOWLINE OF WEIR	163+43.01	287.00	811.60
8	TOE OF SLOPE/CORNER OF SPILLWAY	163+45.98	318.04'	809.15
9	TOE OF SLOPE/CORNER OF SPILLWAY	163+16.03	217.85	809.16
10	TOP OF SLOPE/FLOWLINE OF WEIR	163+19.01	286.94	811.60
11	TOP OF SLOPE/CORNER OF WEIR	163+16.01	286.93	813.50
12	TOP OF SLOPE/EDGE OF BERM	162+88.79	286.85'	813.50
13	TOP OF SLOPE/EDGE OF BERM	162+68.85	266.64'	813.50
14	TOP OF SLOPE/EDGE OF BERM	162+70.85	75.82'	813.50
15	TOP OF SLOPE/EDGE OF BERM	162+80.85	75.93	813.40
16	TOP OF SLOPE/EDGE OF BERM	162+90.85	66.03'	813.40
17	TOP OF SLOPE/EDGE OF BERM	163+40.72	66.04'	813.40
18	TOP OF SLOPE/EDGE OF BERM	163+50.70	75.44'	813.40
19	TOP OF SLOPE/EDGE OF BERM	163+62.26	266.43'	813.40
20	TOP OF SLOPE/EDGE OF BERM	163+52.25	277.03'	813.40
21	TOP OF SLOPE/CORNER OF WEIR	163+46.04	277.01	813.40
22	TOP OF SLOPE/FLOWLINE OF WEIR	163+43.04	277.00	811.60
23	TOP OF SLOPE/FLOWLINE OF WEIR	163+19.04	276.94	811.60
24	TOP OF SLOPE/CORNER OF WEIR	163+16.04	276.93	813.40
25	TOP OF SLOPE/EDGE OF BERM	162+88.82	276.85'	813.40
26	TOP OF SLOPE/EDGE OF BERM	162+78.85	266.74'	813.40
27	TOE OF SLOPE	162+89.45	74.48'	811.43
28	FLOWLINE OF SET	163+18.91	74.80'	810.11
29	EDGE OF PILOT CHANNEL	163+22.29	84.80'	811.12
30	FLOWLINE OF PILOT CHANNEL	163+25.29	84.80'	810.12
31	EDGE OF PILOT CHANNEL	163+28.29	84.80'	811.12
32	FLOWLINE OF SET	163+31.49	74.80'	810.11
33	TOE OF SLOPE	163+41.71	75.14'	811.24
34	TOE OF SLOPE	163+43.17	90.06'	811.30
35	TOE OF SLOPE	163+54.28	268.98'	811.60
36	EDGE OF PILOT CHANNEL	163+33.97	268.98	811.30
37	FLOWLINE OF PILOT CHANNEL	163+30.97	269.02	810.30
38	EDGE OF PILOT CHANNEL	163+27.97	269.07	811.30
39	TOE OF SLOPE	162+86.68	268.67'	811.62

NOTE:
SEE DETENTION POND CROSS SECTIONS AND DETAILS.

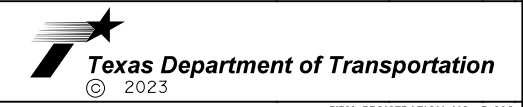
BACKSLOPE INTERCEPTOR DITCH

POINT	STATION	OFFSET RT	ELEV
D1	162+40.67	82.88	812.78
D2	162+55.11	82.88	812.55
D3	162+69.55	82.88	813.19
D4	162+41.18	169.89	811.90
D5	162+52.09	169.89	811.42
D6	162+63.00	169.89	811.78
D7	162+41.79	276.22	810.65
D8	162+50.24	276.22	810.04
D9	162+58.69	276.22	810.62
D10	162+41.94	301.71	810.07
D11	162+55.84	297.98	809.62
D12	162+69.74	294.24	810.17
D13	162+75.22	315.71	809.16
D14	162+87.24	301.53	809.82
D15	163+63.03	94.44	813.21
D16	163+70.94	94.44	813.00
D17	163+78.84	94.44	813.24
D18	163+73.66	188.44	811.98
D19	163+81.47	188.44	811.77
D20	163+89.28	188.44	812.16
D21	163+77.88	225.37	811.48
D22	163+84.21	225.37	811.10
D23	163+90.54	225.37	811.46
D24	163+84.22	269.17	810.49
D25	163+87.51	269.17	809.96
D26	163+90.79	269.17	810.35
D27	163+72.62	295.81	809.68
D28	163+82.12	298.43	809.19
D29	163+90.98	300.88	809.47



Veronica N. Hodge
4/19/2023

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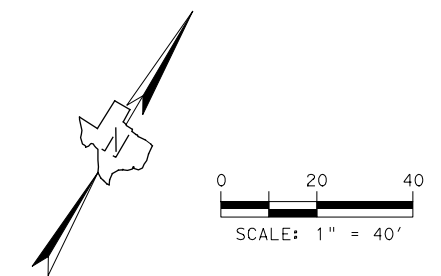
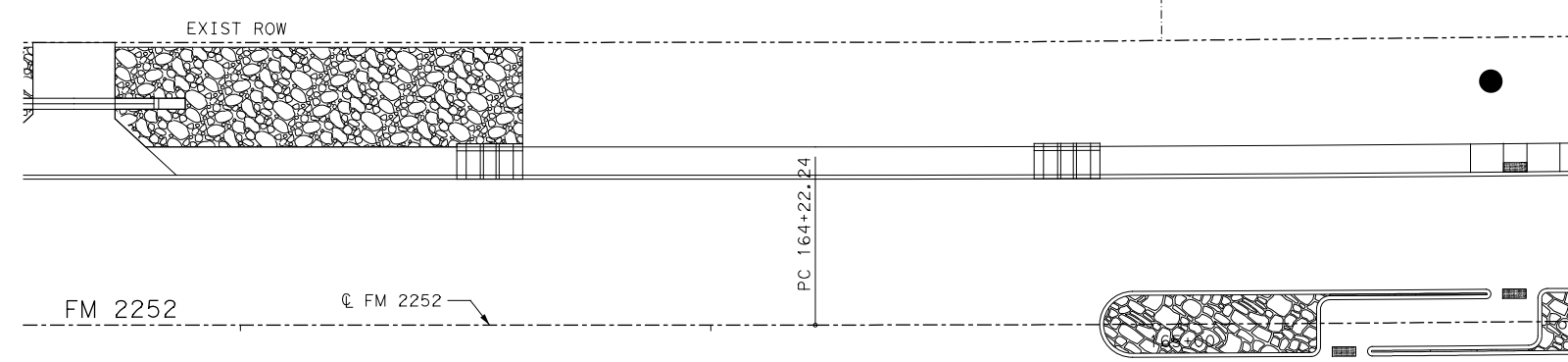
FM 2252
DETENTION POND LAYOUT

SHEET 1 OF 3

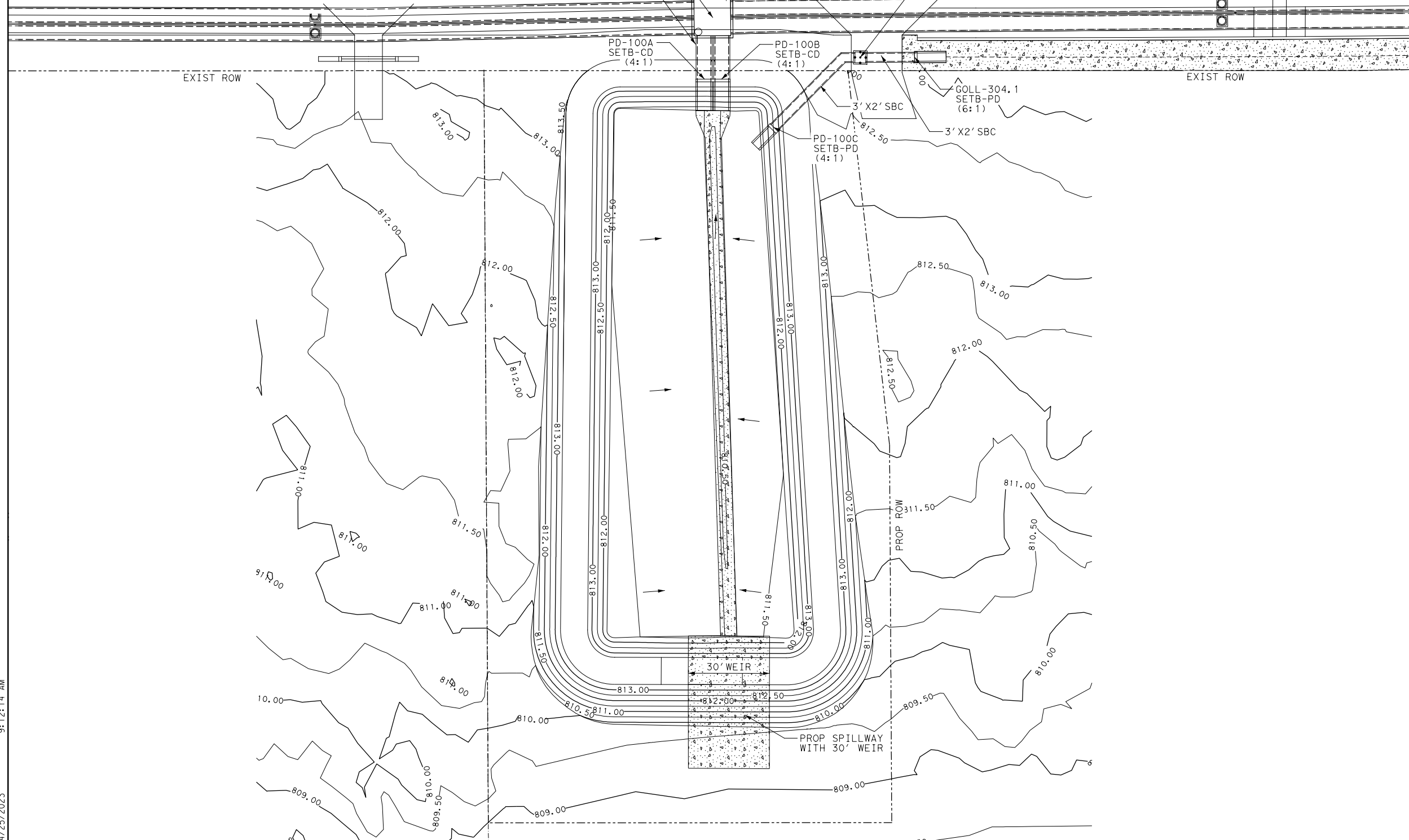
DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS	(SEE TITLE SHEET)	FM 2252
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	SAT	COMAL, ETC	1433	02
				JOB No. SHEET No. 044 ETC 717

ESTIMATE POND QUANTITIES FOR CSJ 1433-02-044, ETC				
ITEM		DESCRIPTION	UNIT	QTY
110	6003	EXCAV SPECIAL	CY	644
132	6006	EMBANKMENT (FINAL) (DENS CONT) (TY C)	CY	453
161	6017	COMPOST MANUF TOPSOIL (4")	SY	2176
164	6007	BROADCAST SEED (PERM) (URBAN) (CLAY)	SY	2176
164	6071	BROADCAST SEED (TEMP) (WARM OR COOL)	SY	2176
168	6001	VEGETATIVE WATERING	MG	35
169	6003	SOIL RETENTION BLANKETS (CL 1) (TY C)	SY	2176
400	6002	STRUCT EXCAV (BOX)	CY	59
432	6002	RIPRAP CONC (5 IN)	CY	46
462	6001	CONC BOX CULV (3FT X 2FT)	LF	62
462	6006	CONC BOX CULV (5FT X2FT)	LF	36
465	6006	JCTBOX (COMPL) (PJB) (4FTX4FT)	EA	1
467	6107	SET (TY I) (S=3FT) (HW=3FT) (4:1) (P)	EA	1
467	6110	SET (TY I) (S=3FT) (HW=3FT) (6:1) (P)	EA	1
467	6172	SET (TY I) (S=5FT) (HW=3FT) (4:1) (C)	EA	2

* FOR CONTRACTOR'S INFORMATION ONLY

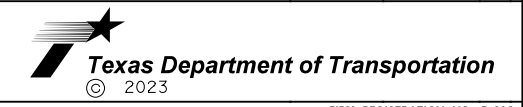


NOTE:
THIS SHEET HAS BEEN PROVIDED FOR CONTRACTOR'S INFORMATION ONLY. FOR SPECIFIC INFORMATION SUCH AS POINT ELEVATIONS, SIDE SLOPE AND STRUCTURAL FEATURES, SEE POND LAYOUT AND POINT TABLE AND CROSS SECTION SHEETS.



Veronica N. Hodge 4/19/2023

2 REVISED 4/19/2023



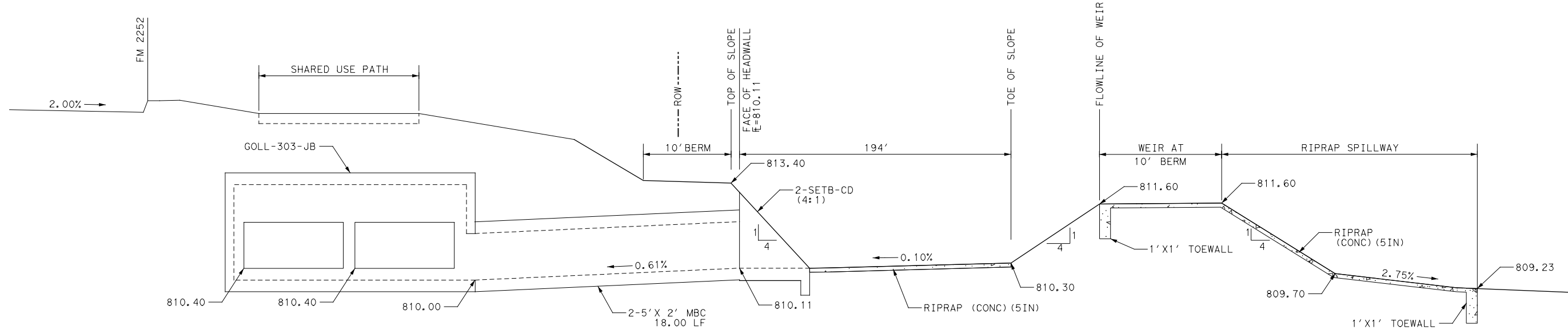
FM 2252
**DETENTION
CONTOUR LAYOUT**

SHEET 2 OF 3

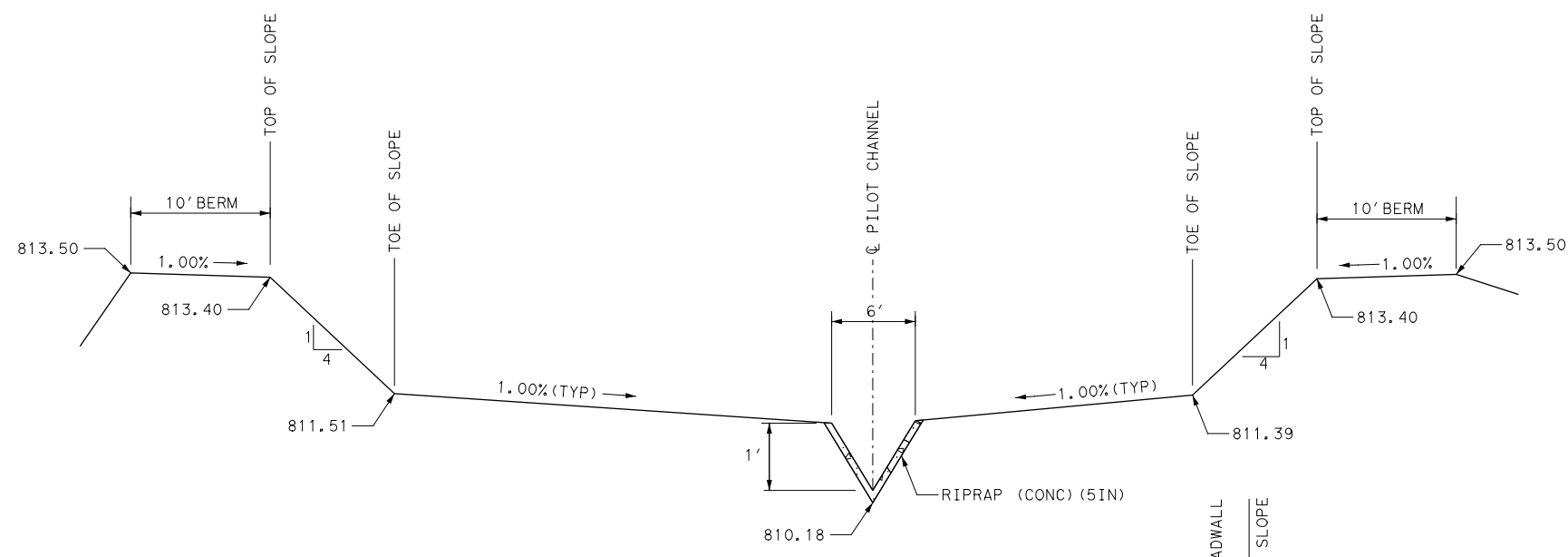
DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS	(SEE TITLE SHEET)	FM 2252
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	SAT	COMAL, ETC	1433	02
				JOB No. SHEET No. 044, ETC 718

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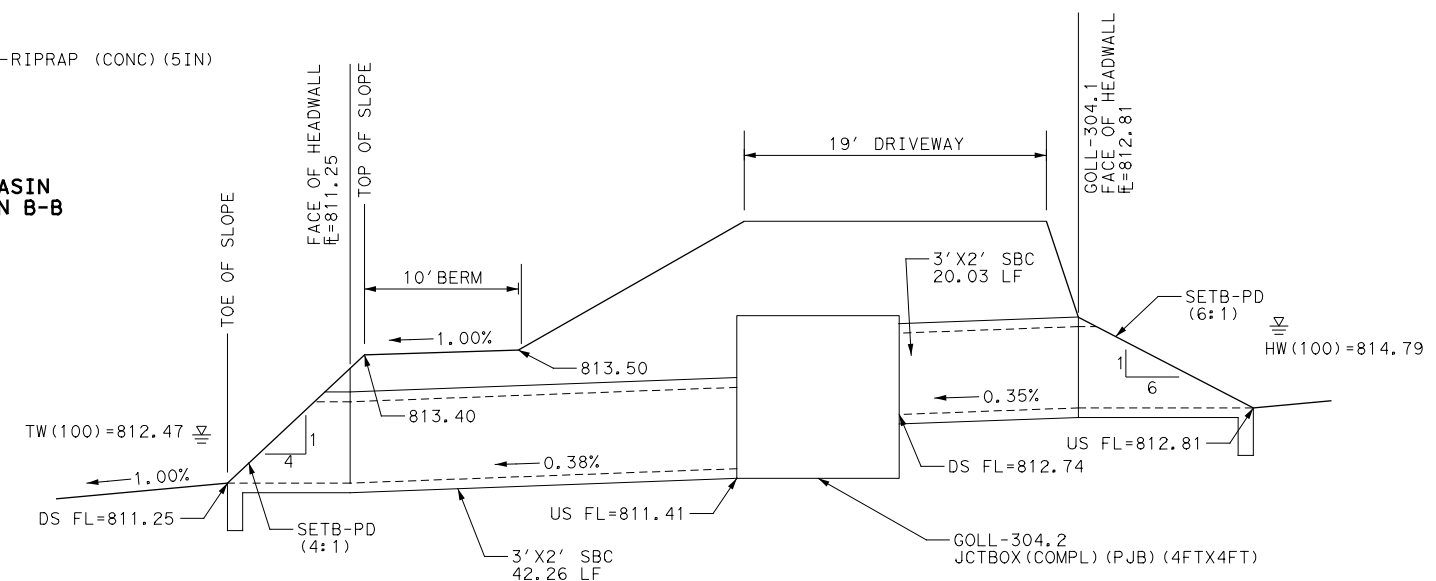
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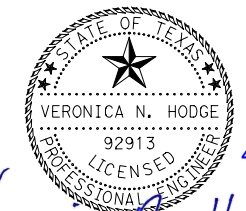
**DETENTION BASIN PILOT CHANNEL
CROSS-SECTION A-A**
N. T. S.



**DETENTION BASIN
CROSS-SECTION B-B**
N. T. S.

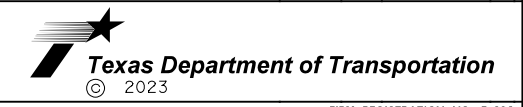


**DETENTION BASIN
CROSS-SECTION C-C**
N. T. S.



4/19/2023
Veronica N. Hodge

REVISED 4/19/2023



FM 2252
**DETENTION
CROSS SECTIONS**

SHEET 3 OF 3

DESIGNED:	FED. RD DIV. No.	STATE	FEDERAL AID PROJECT No.	HIGHWAY No.
CHECKED:		TEXAS	(SEE TITLE SHEET)	FM 2252
DRAWN:	STATE DISTRICT	COUNTY	CONTROL No.	SECTION No.
CHECKED:	SAT	COMAL, ETC	1433	02
				JOB No. 044 ETC
				SHEET No. 719

**ESTIMATED QUANTITIES FOR CSJ
1433-02-044**

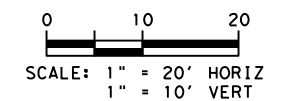
ITEM	DESCRIPTION	UNIT	QTY
400	6002	STRUCTURAL EXCAVATION	CY 832
400	6005	CEMENT STABILIZED BACKFILL	CY 296
400	6006	CUT & RESTORING PAV	SY 245
402	6001	TRENCH EXCAVATION PROTECTION	LF 91
432	6002	RIPRAP (CONC) (5 IN)	CY 44
450	6030	RAIL (TY C221)	LF 123
462	6009	CONC BOX CULVERT (5FT X 5FT)	LF 363
466	6182	WINGWALL (PW-1) (HW=7FT)	EA 1
466	6171	WINGWALL (PW-1) (HW=10FT)	EA 1
496	6041	REMOVE STR (LARGE)	EA 1
4171	6001	INSTALL BRIDGE IDENTIFICATION NUMBERS	EA 2

* FOR CONTRACTOR'S INFORMATION ONLY NON PAY ITEM.

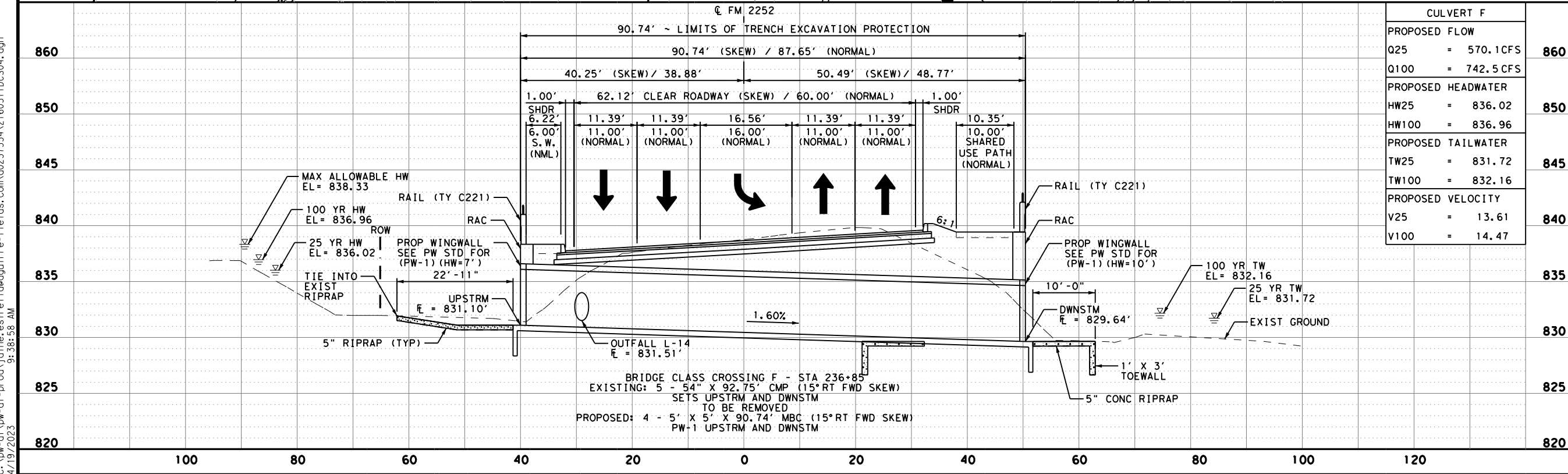
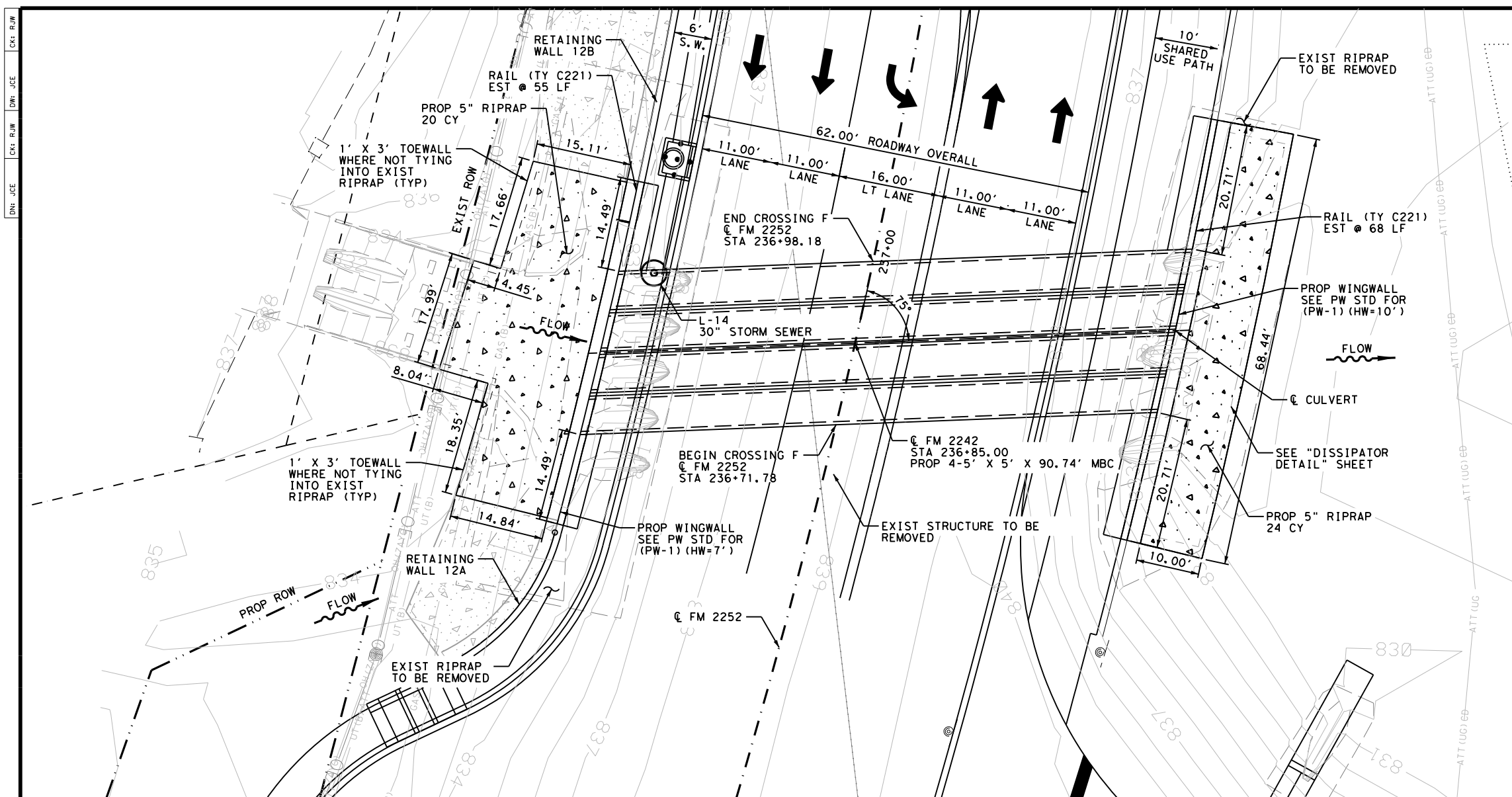
NOTES:

- EXISTING UTILITIES SHOWN ARE APPROXIMATE. FIELD VERIFY LOCATIONS AND ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- RAC IS SUBSIDIARY TO RAIL (TY C221).
- CEMENT STABILIZED BACKFILL TO BE USED FOR ENTIRE LENGTH OF CROSS CULVERTS IN LIEU OF FLOWABLE BACKFILL.

NBI NO: 15-046-0-1433-02-215



REVISED 4/19/2023



CULVERT F	
PROPOSED FLOW	
Q25	= 570.1 CFS
Q100	= 742.5 CFS
PROPOSED HEADWATER	
HW25	= 836.02
HW100	= 836.96
PROPOSED TAILWATER	
TW25	= 831.72
TW100	= 832.16
PROPOSED VELOCITY	
V25	= 13.61
V100	= 14.47

04/19/2023

© 2023

FM 2552

**BRIDGE CLASS
CULVERT LAYOUT
CROSSING F
STA 236+85**

4/19/2023

CONTROL No.	SECTION No.	JOB No.	HIGHWAY No.
1433	02	044, ETC	FM 2552
STATE DISTRICT	COUNTY	SHEET No.	
SAT	COMAL, ETC	763	

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NOTES:

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

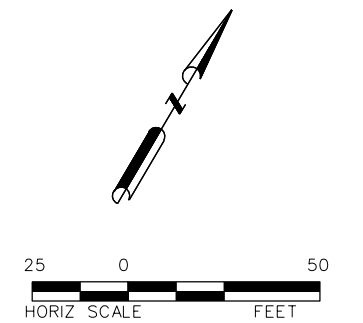
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



BGE, Inc.
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Tel: 972-484-4800 • www.bgeinc.com
TBPE Registration No. F-1046

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 1 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1330
CHK. JP	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
DRW. AW			JOB NO. 044	HIGHWAY NO. FM2252

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- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
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- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
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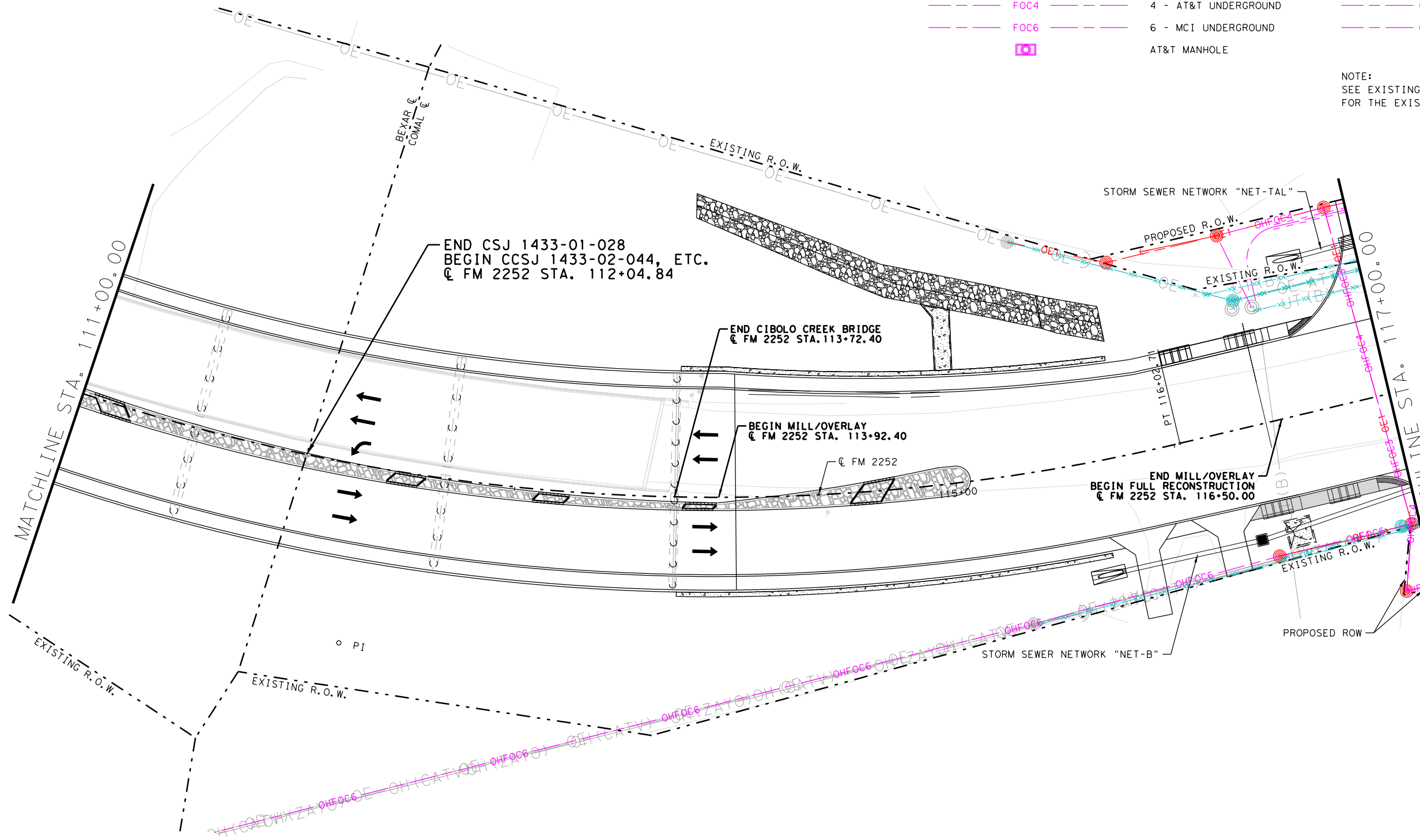
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

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- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
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- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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2595 Dallas Parkway, Suite 101, Frisco, TX 75034
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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 2 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. 1331	SHEET NO. 1331
CHK. JP			SEE TITLE SHEET	
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

REVISD 4/19/2023

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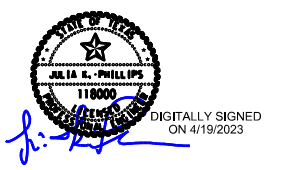
NOTE:
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FOR THE EXISTING UTILITY LEGEND

LEGEND

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- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1046

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 3 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1332
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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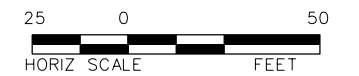
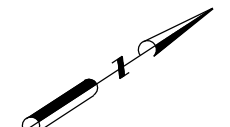
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- OE2 2 - CPS TRANSMISSION
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- CPS UTILITY POLE

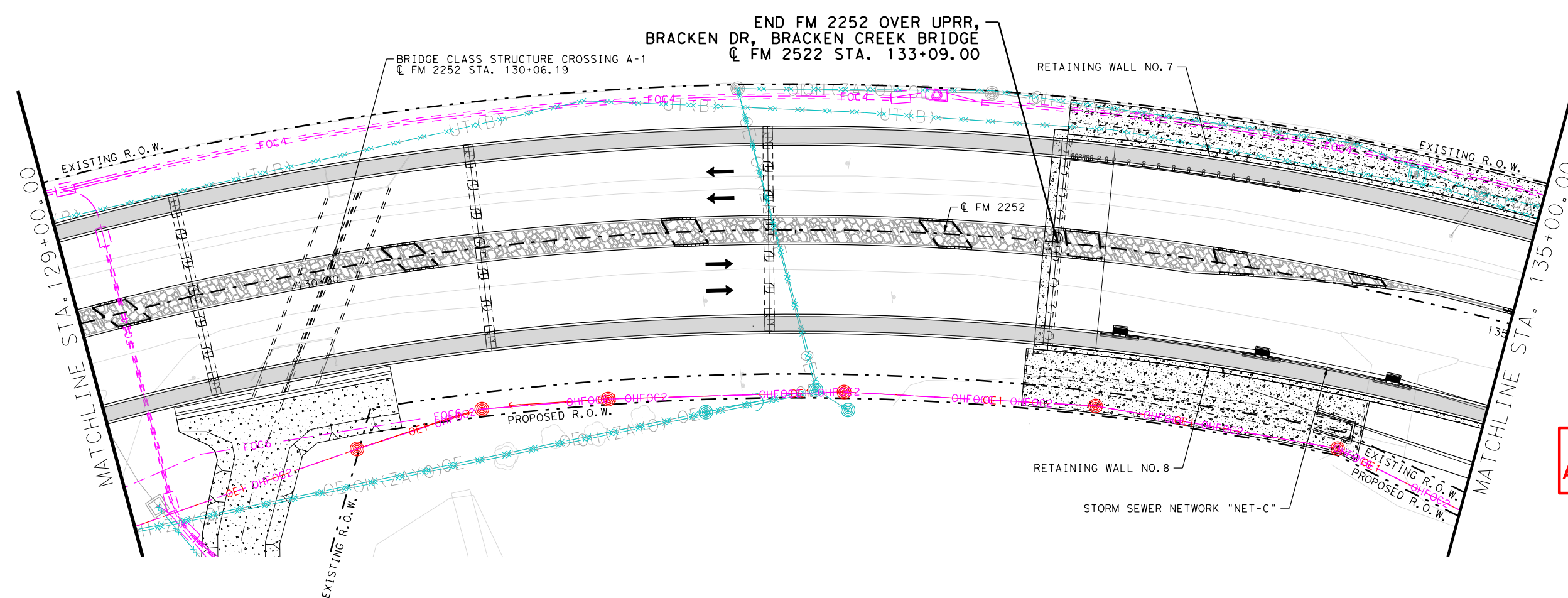
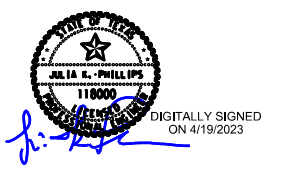
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



8493-01UTL05-BGE.dgn
4/19/2023

REVISED 4/19/2023

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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 5 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1334
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

ETC.

NOTES:

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

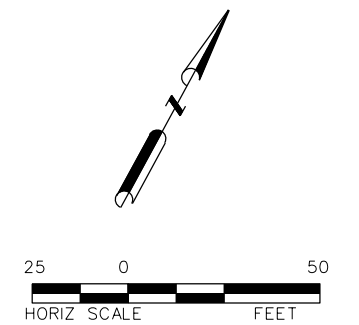
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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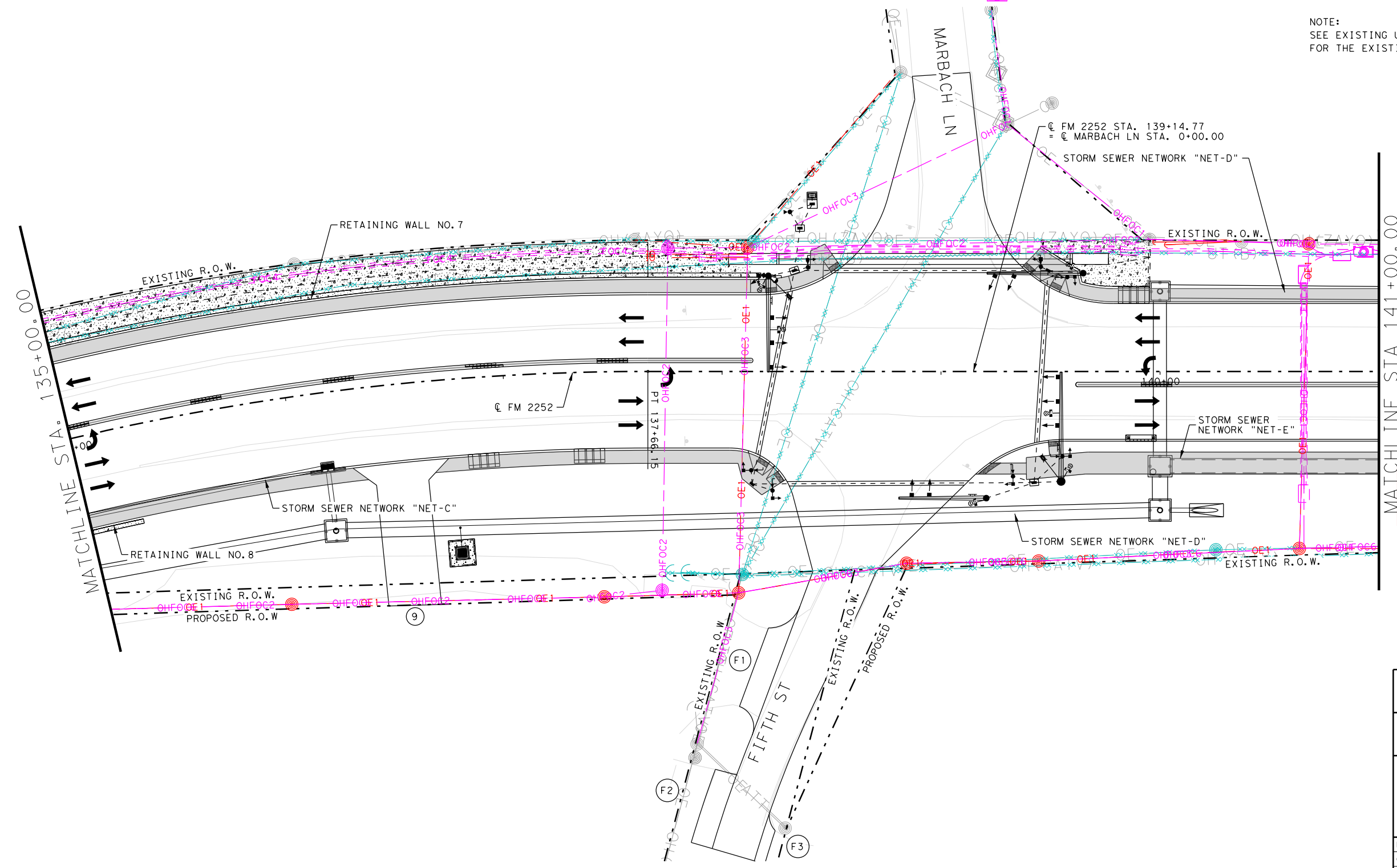
Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 6 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1335
CHK. JP	DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433
			SECTION NO. 02	JOB NO. 044
				HIGHWAY NO. FM2252

REVISED 4/19/2023

8493-01UTL06-BGE.dgn
4/19/2023



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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

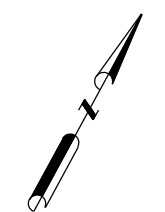
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

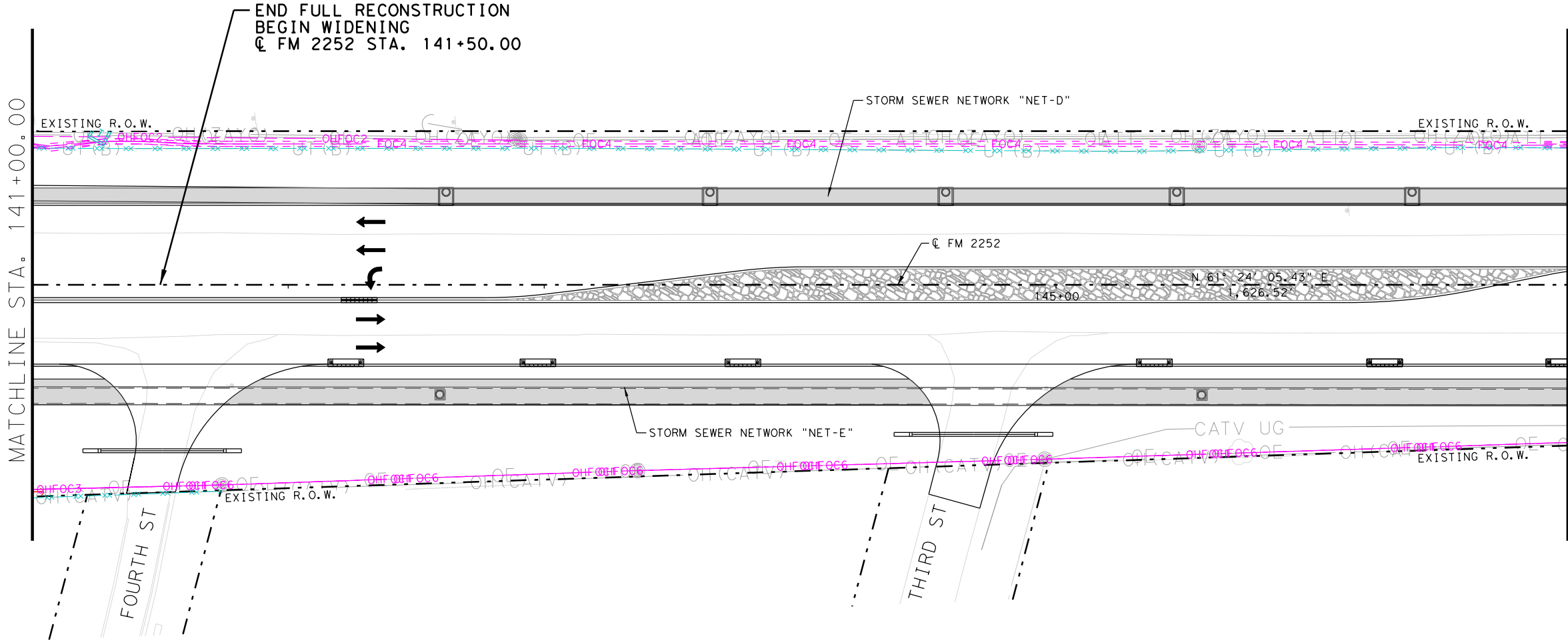
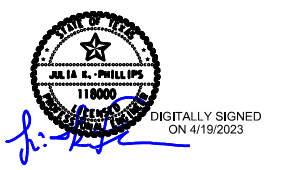
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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4/19/2023

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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 7 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1336
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

ETC.

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LEGEND OF PROPOSED UTILITIES

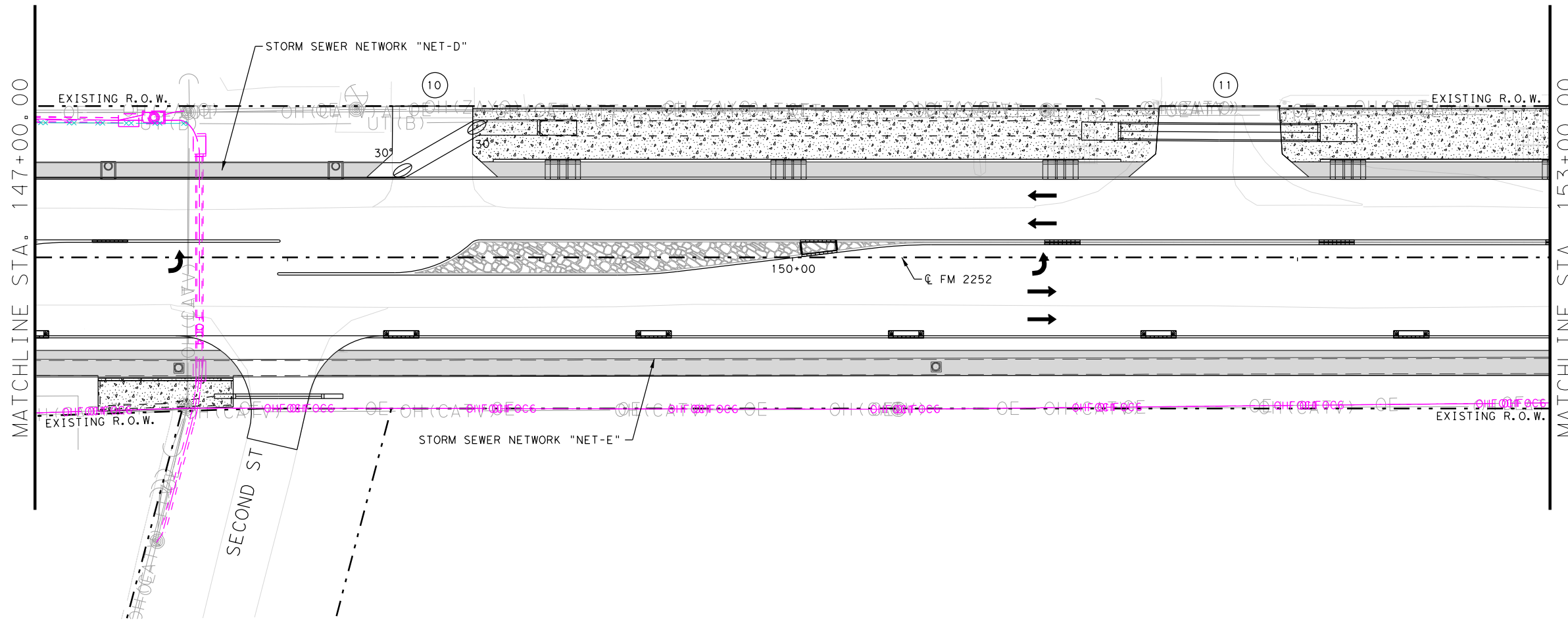
UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

OVERHEAD UTILITIES:

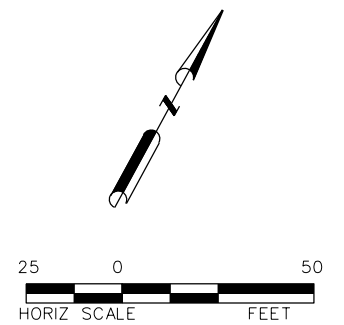
- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

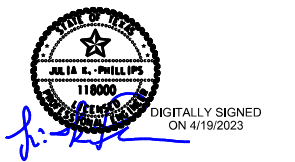


LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 8 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1337
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

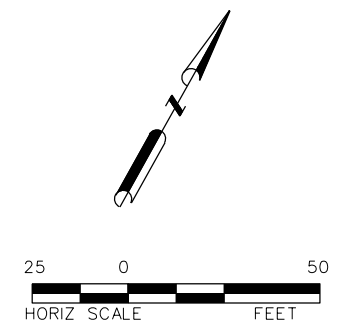
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

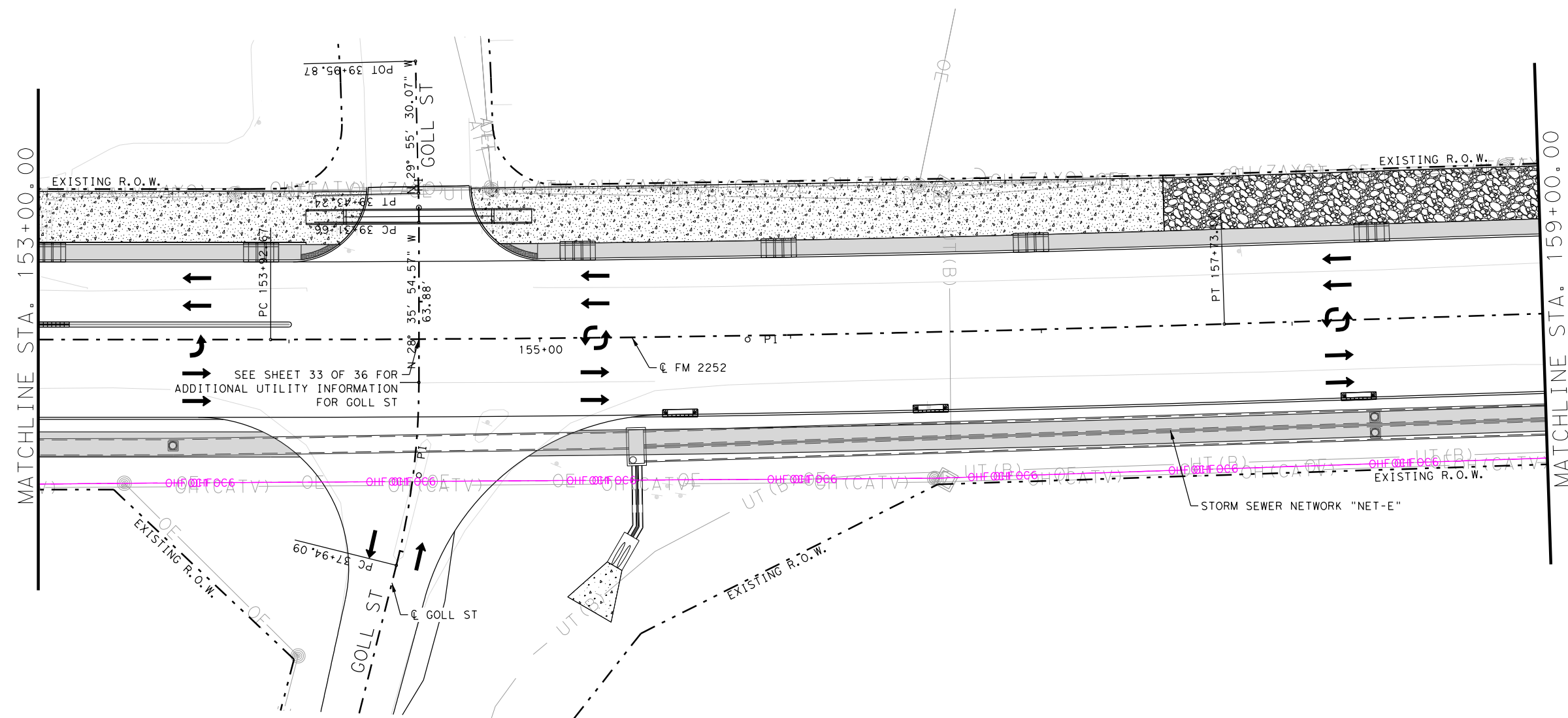
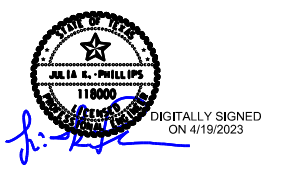
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



8493-01UTL09-BGE.dgn
4/19/2023

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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 9 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1338
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

ETC.

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND

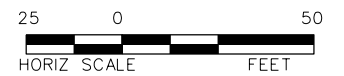
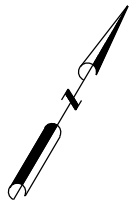
- FOC4 4 - AT&T UNDERGROUND
 - FOC6 6 - MCI UNDERGROUND
 - AT&T MANHOLE
- OVERHEAD UTILITIES:
- OE1 1 - CPS DISTRIBUTION
 - OE2 2 - CPS TRANSMISSION

- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

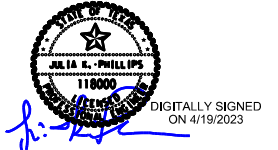
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



PLAN SUBJECT TO CHANGE AS UTILITIES ARE INSTALLED



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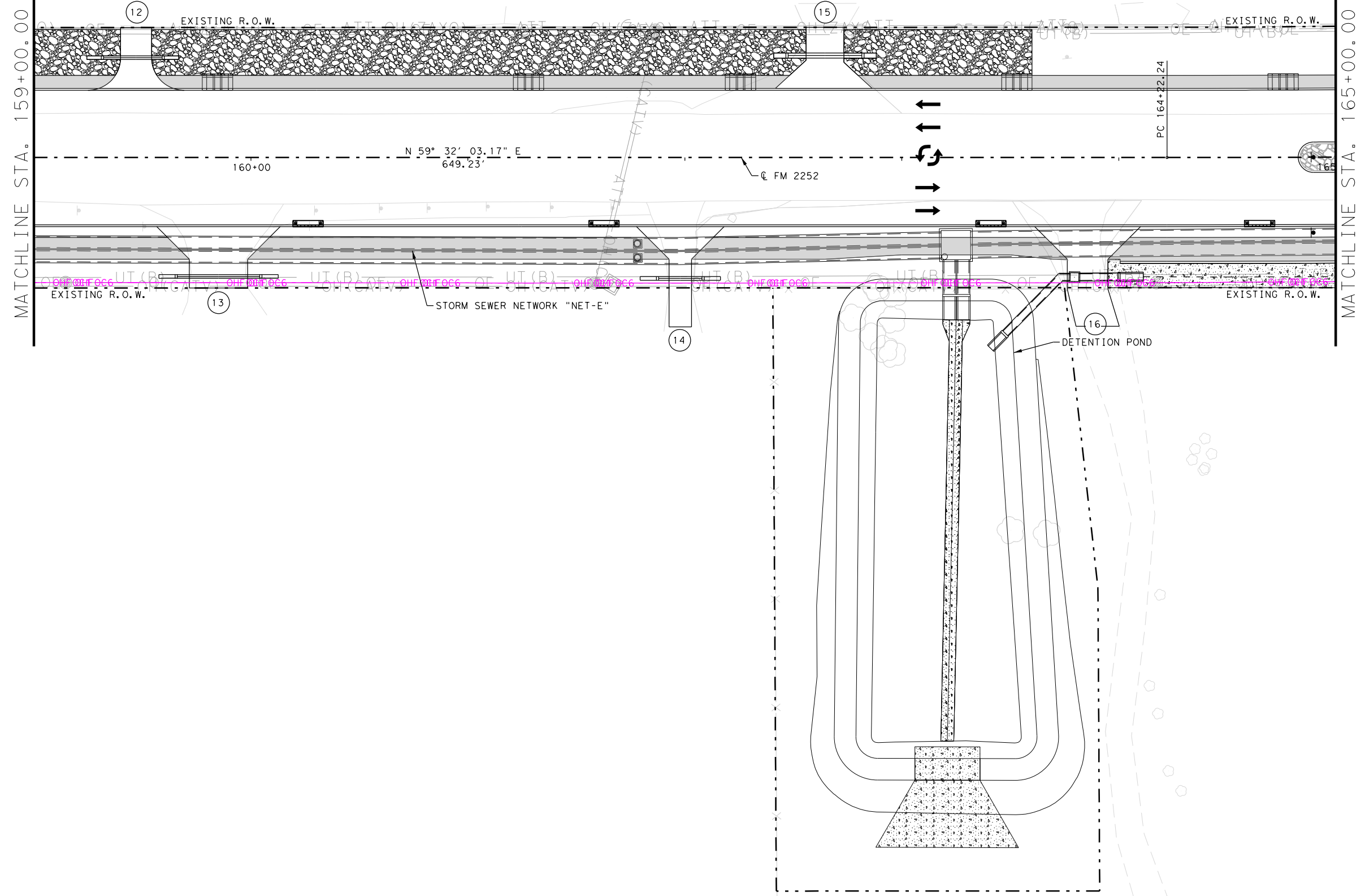
Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 10 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1339
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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4/19/2023



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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

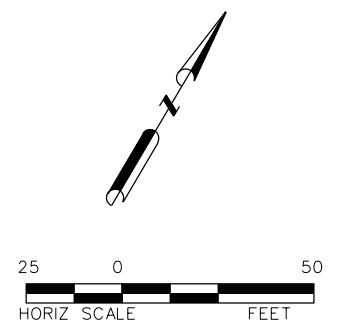
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

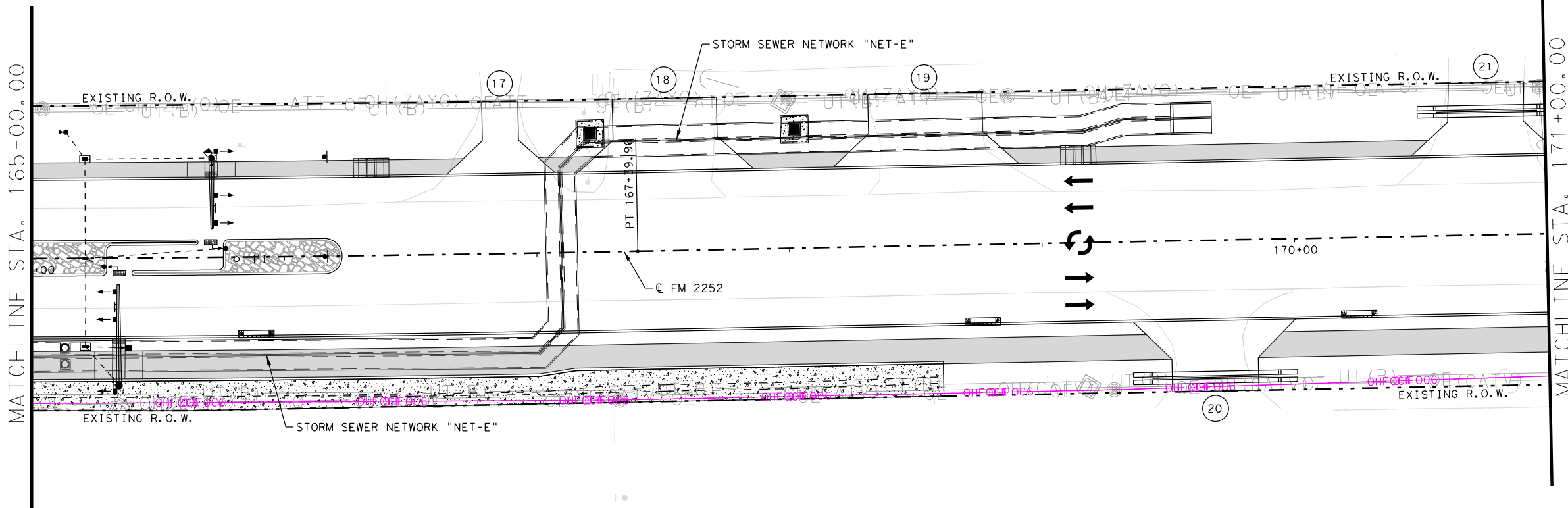
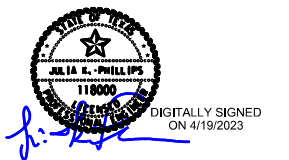
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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4/19/2023

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FM 2252					
PROPOSED UTILITY LAYOUT					
SHEET 11 OF 36					
DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1340	
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02	JOB NO. 044 FM2252

ETC.

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

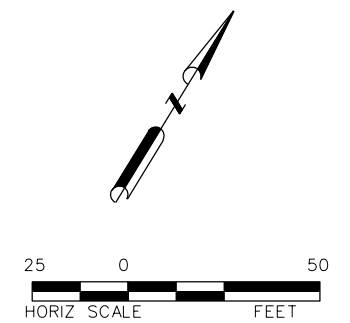
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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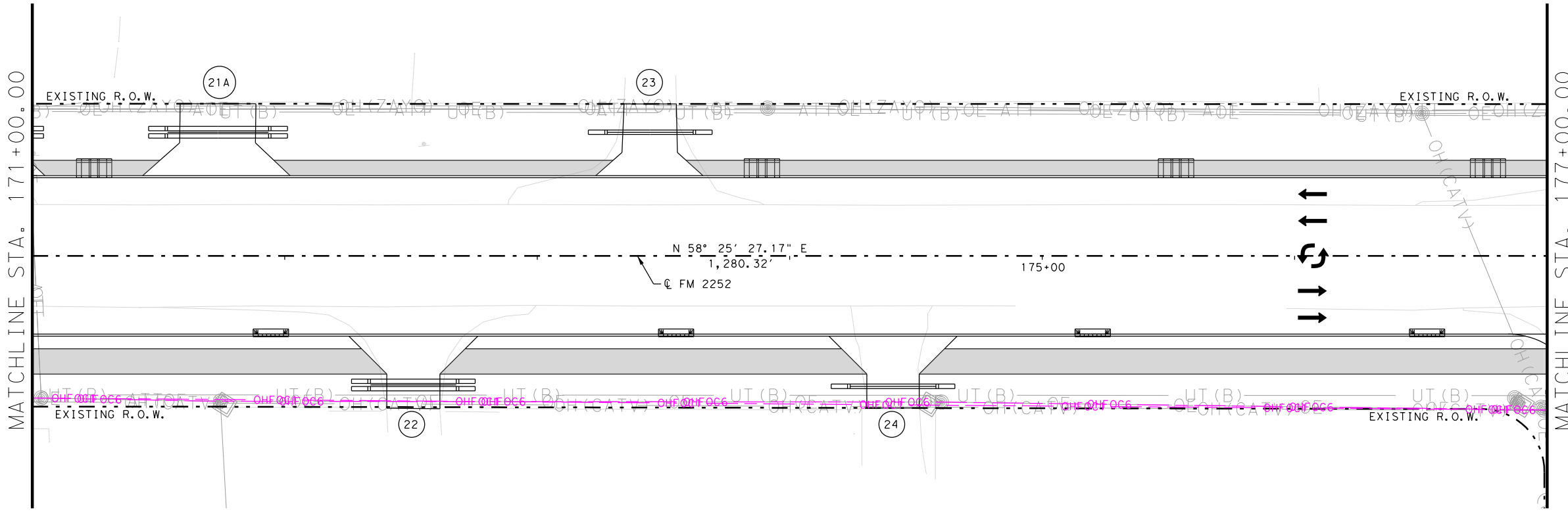
Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 12 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1341
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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4/19/2023



NOTES:

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

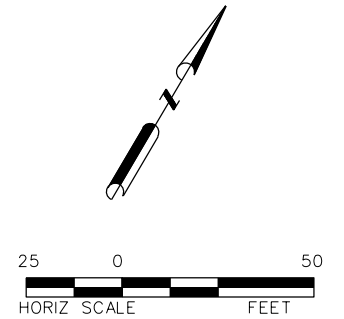
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

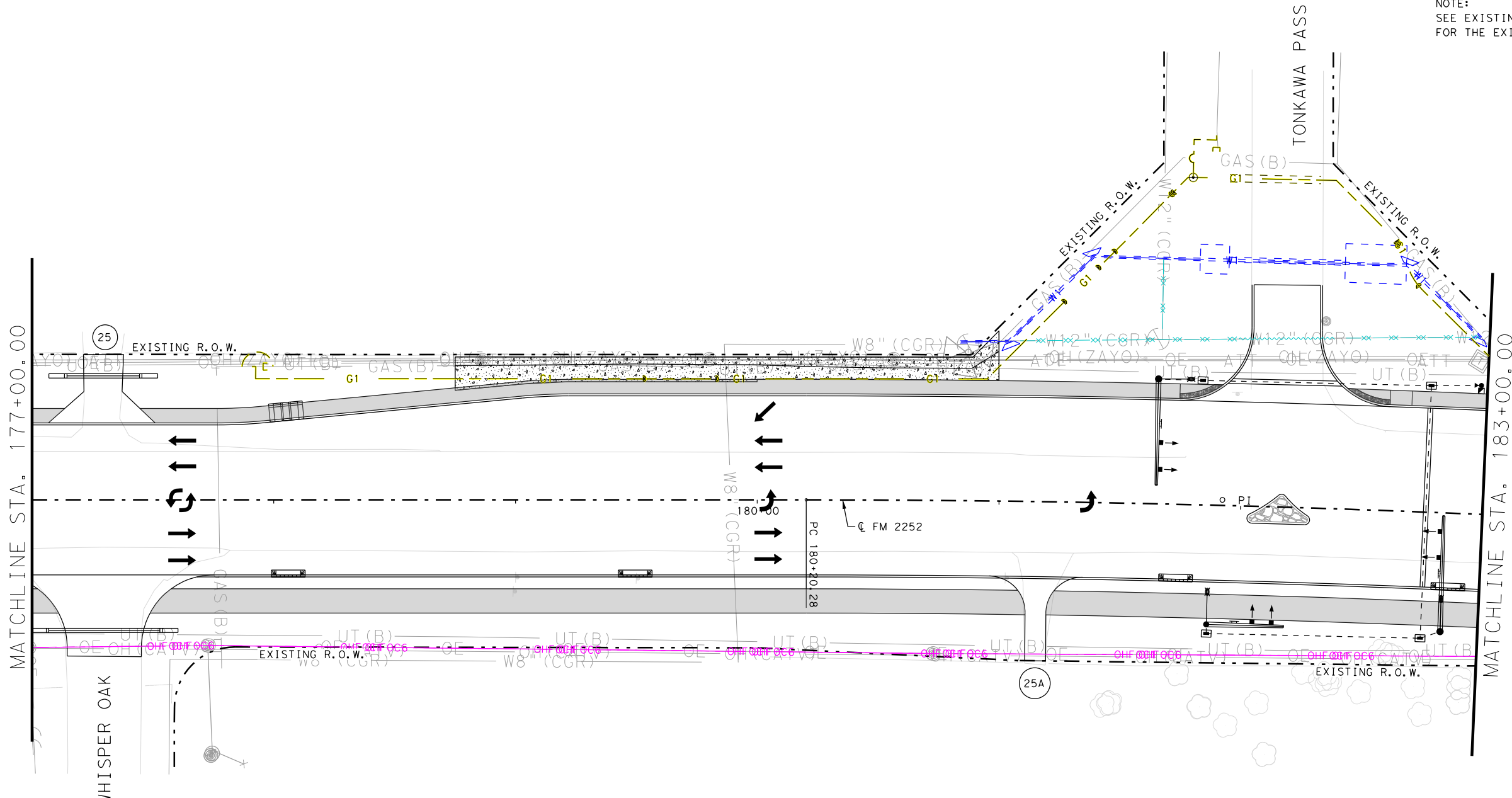
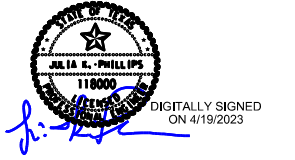
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



PLAN SUBJECT TO CHANGE AS UTILITIES ARE INSTALLED



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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 13 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1342
CHK. JP	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
DRW. AW			JOB NO. 044	HIGHWAY NO. FM2252
CHK. JP				ETC.

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

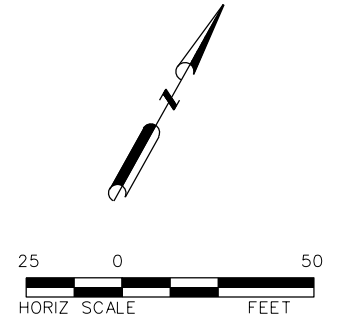
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

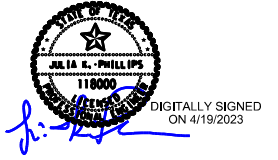
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



8493-01UTL15-BGE.dgn
4/19/2023

REVISED 4/19/2023

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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 15 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1344
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

ETC.

NOTES:

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

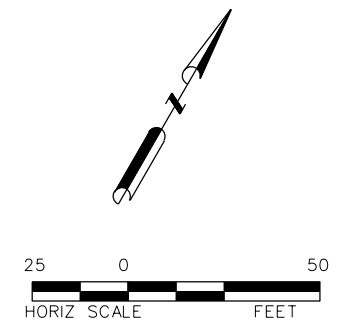
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

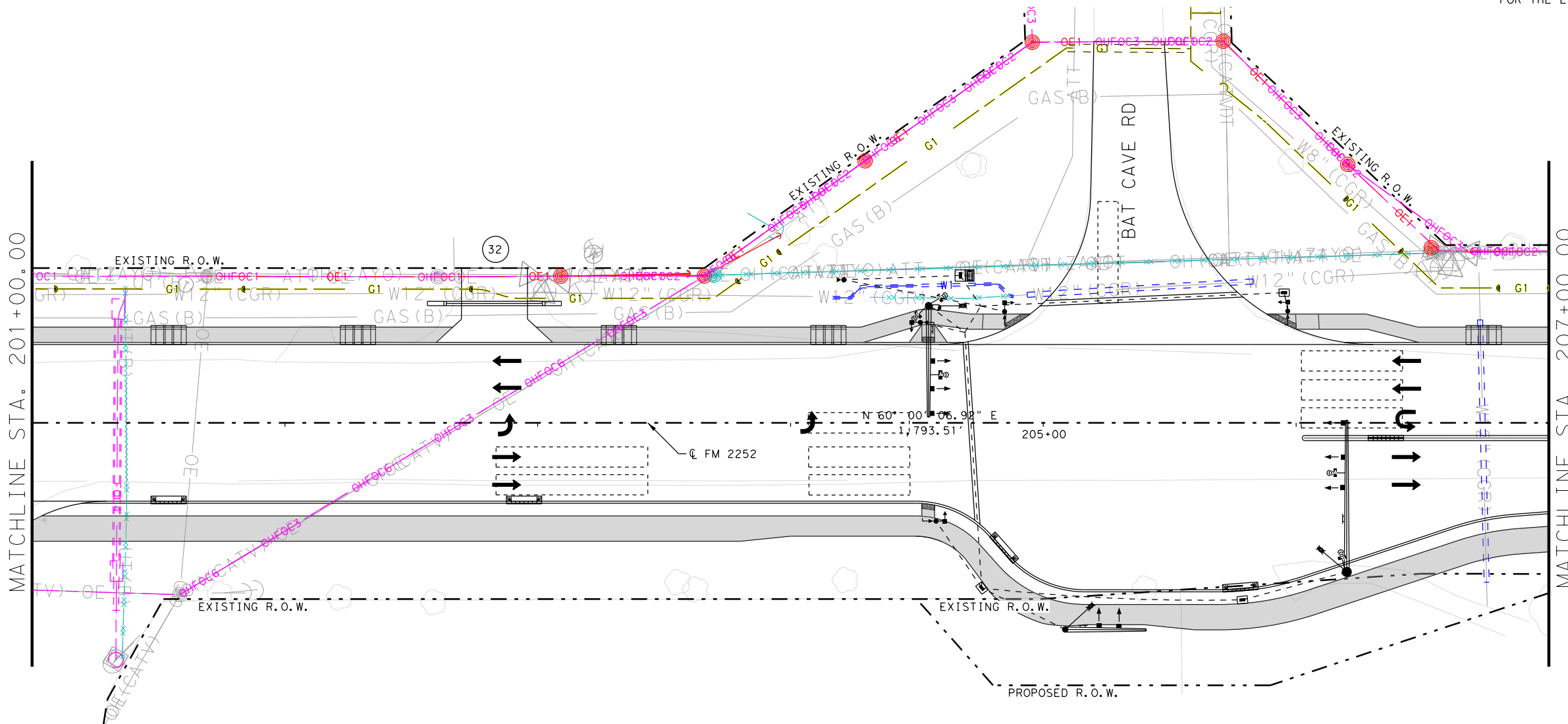
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 17 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1346
CHK. JP	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
DRW. AW	JOB NO. 044	HIGHWAY NO. FM2252	ETC.	

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

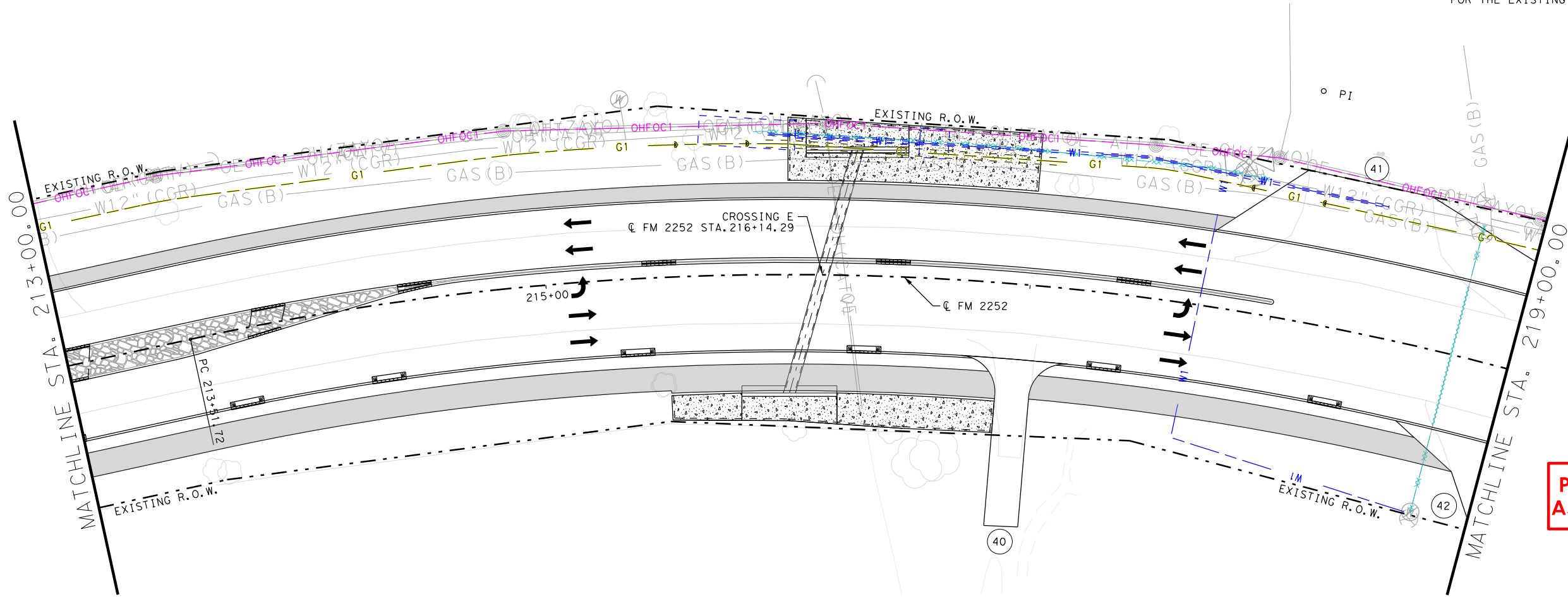
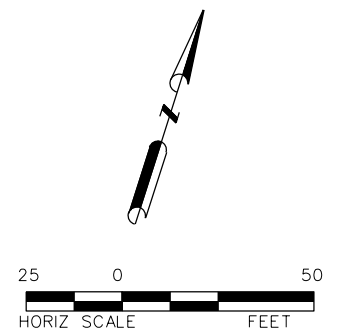
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

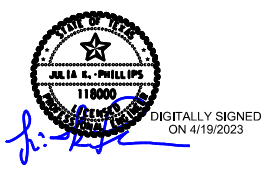
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 19 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1348
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

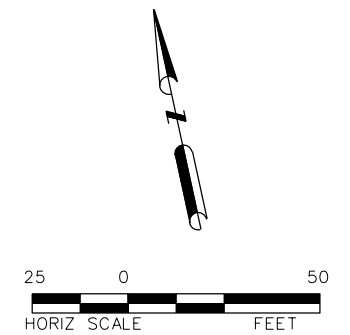
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

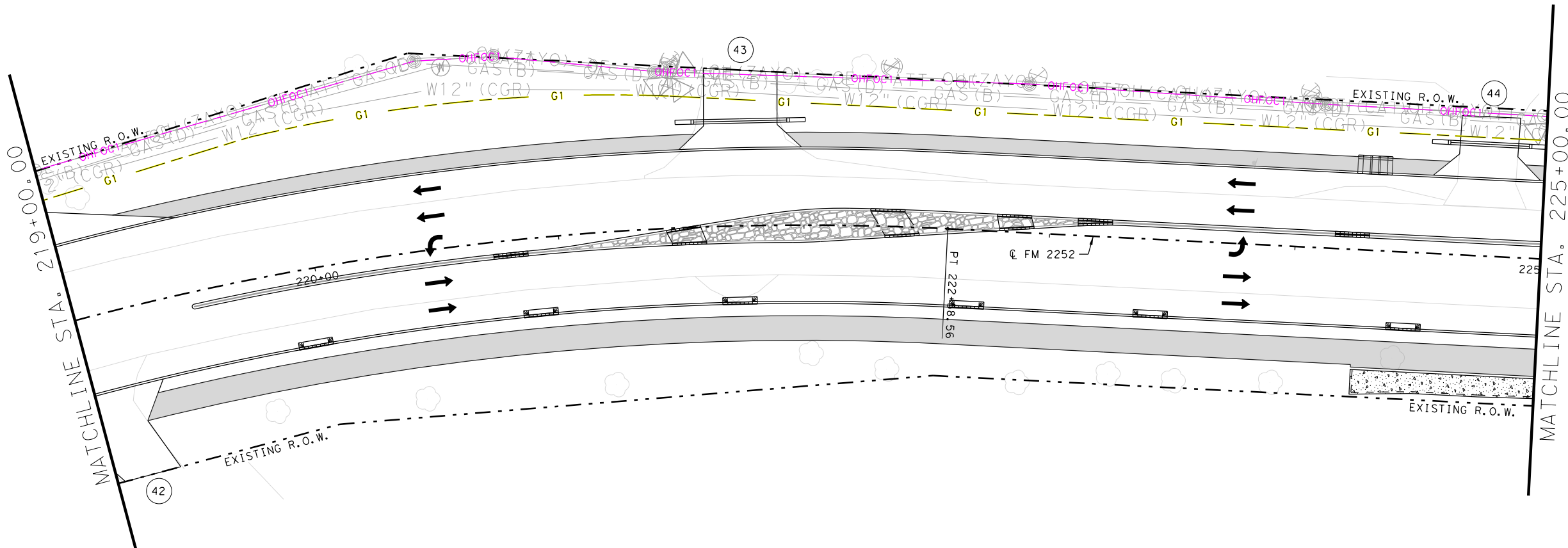
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



8493-01UTL20-BGE.dgn
4/19/2023

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FM 2252					
PROPOSED UTILITY LAYOUT					
SHEET 20 OF 36					
DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1349	
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02	JOB NO. 044 FM2252

ETC.

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

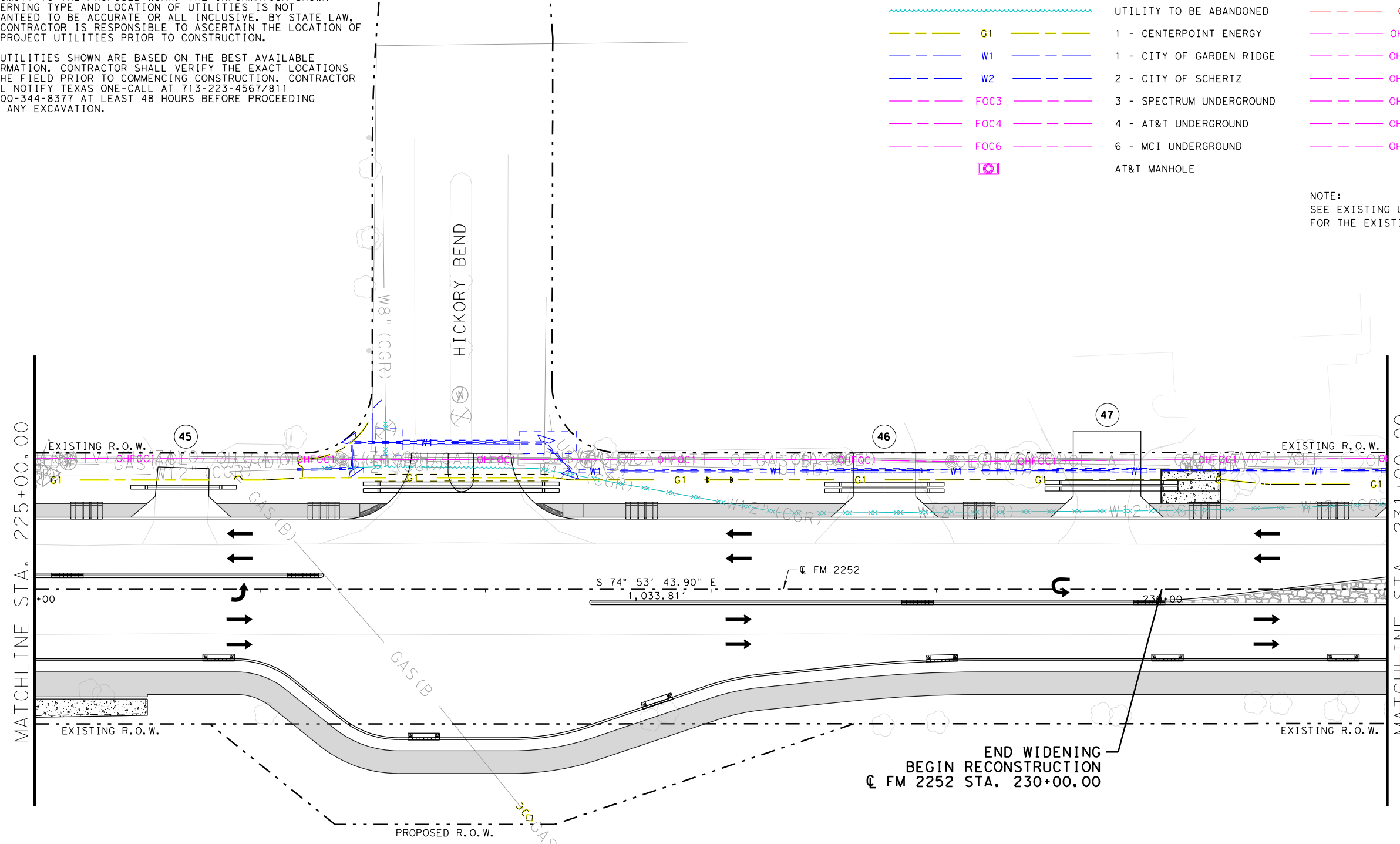
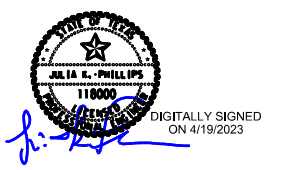
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



8493-01UTL21-BGE.dgn
4/19/2023

REVISED 4/19/2023

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TBPE Registration No. F-1048

Texas Department of Transportation

FM 2252

PROPOSED UTILITY LAYOUT

SHEET 21 OF 36

DES. JF	FED. RD. DIV. NO.	STATE	STATE PROJECT NO.	SHEET NO.
CHK. JP	15	TEXAS	SEE TITLE SHEET	1350
DRW. AW	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.
CHK. JP	SAT	COMAL, ETC	1433	02

JOB NO. 044
HIGHWAY NO. FM2252
ETC.

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

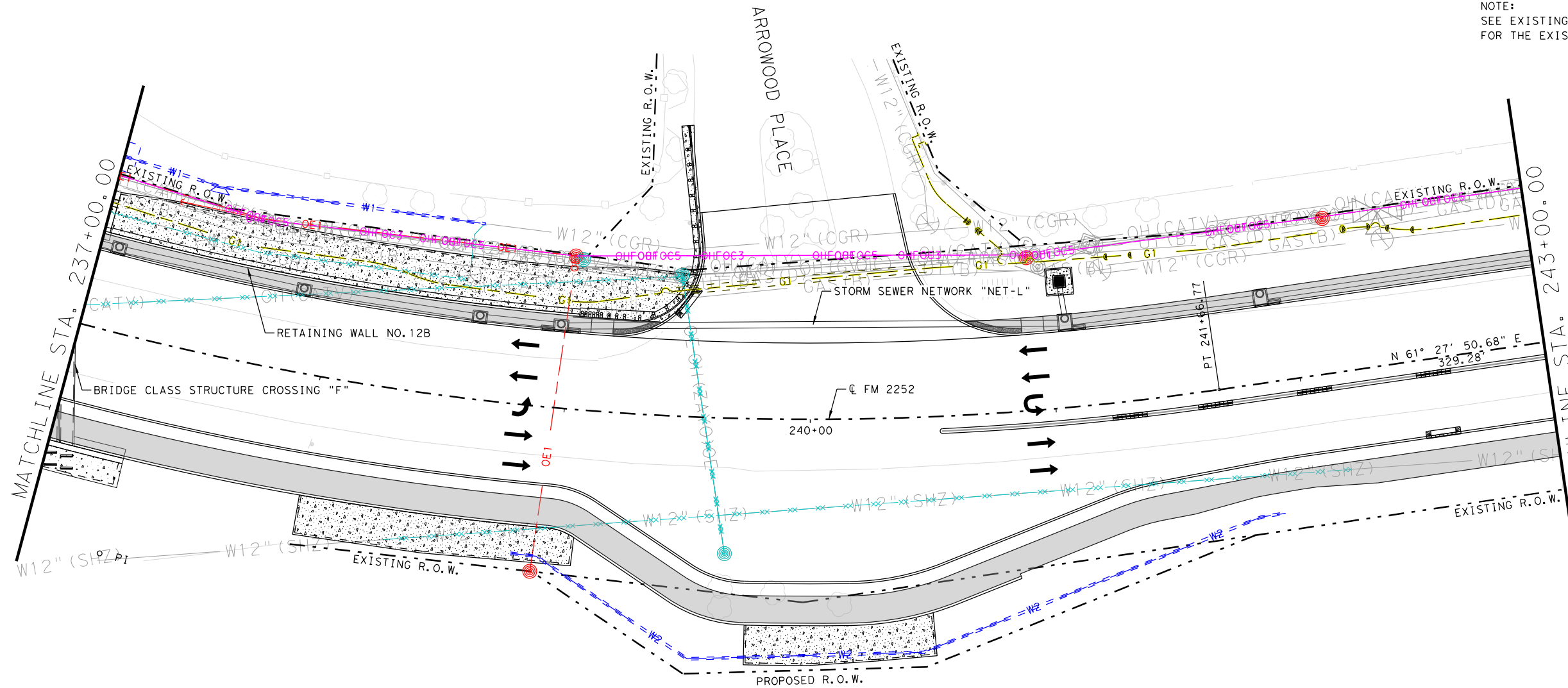
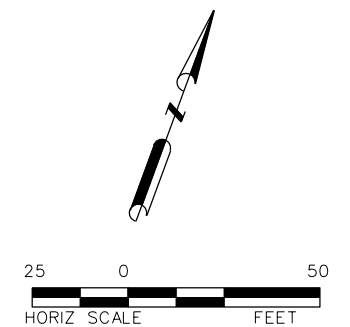
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**

DIGITALLY SIGNED
ON 4/19/2023

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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 23 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1352
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

REVISD 4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
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- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

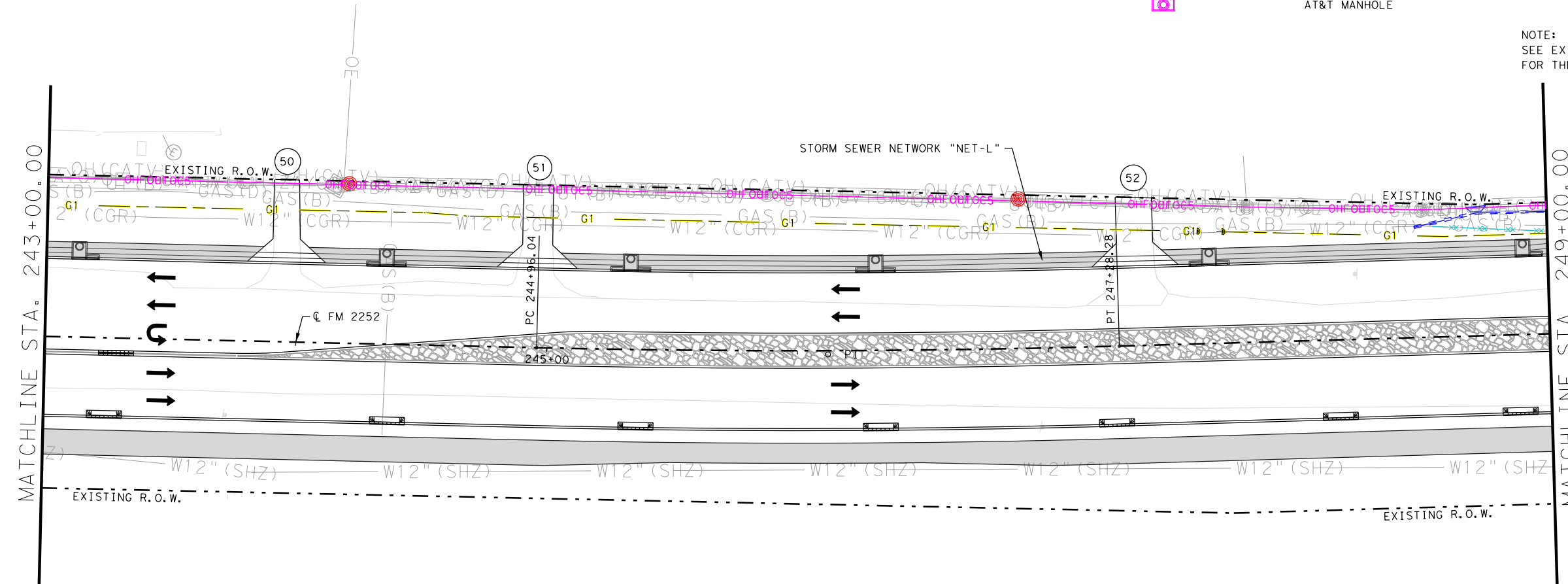
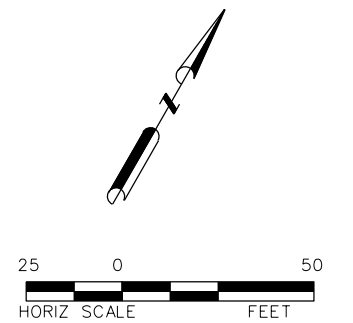
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

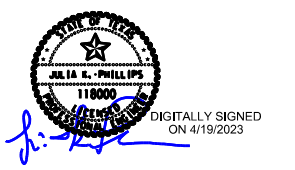
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 24 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1353
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

8493-01UL24-BGE.dgn
4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

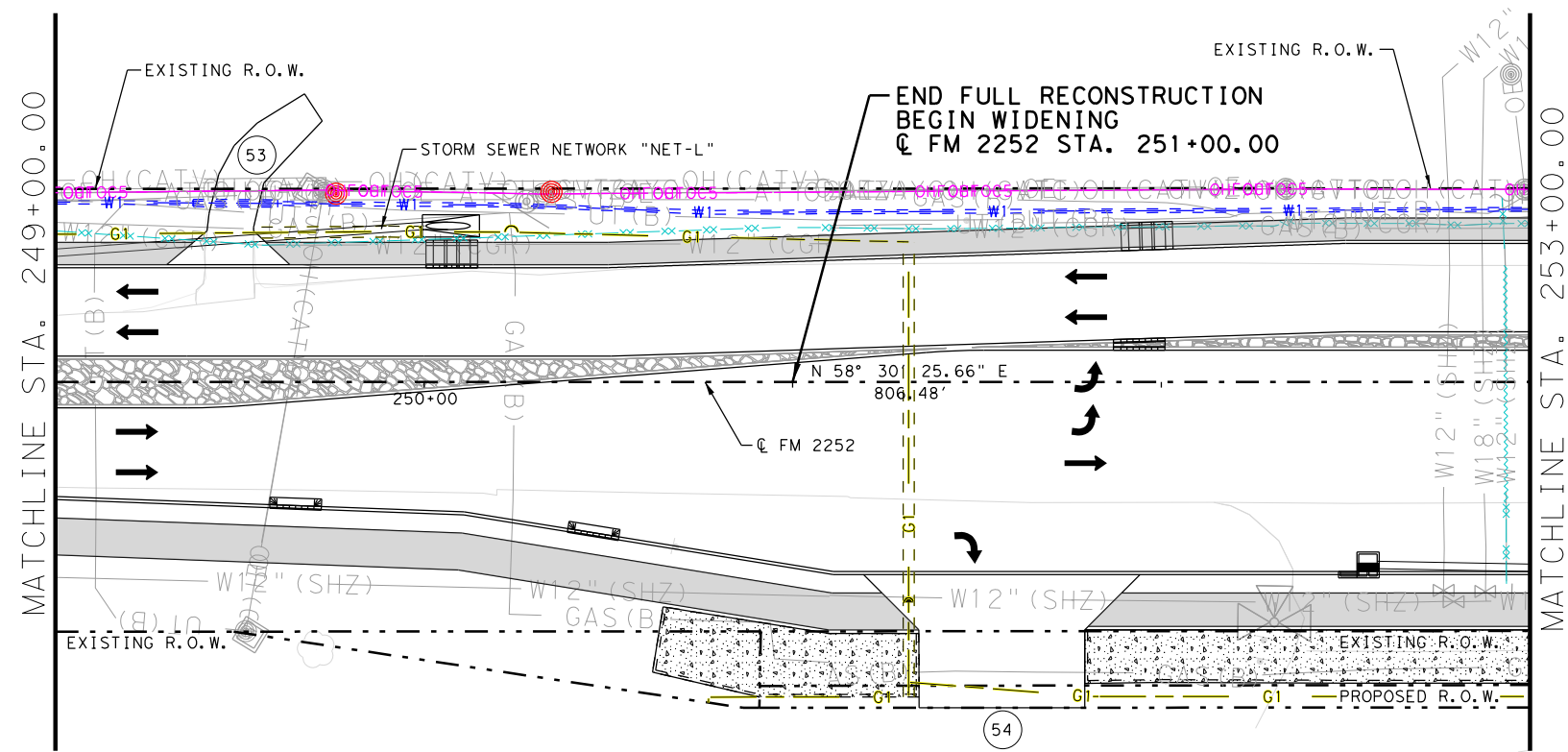
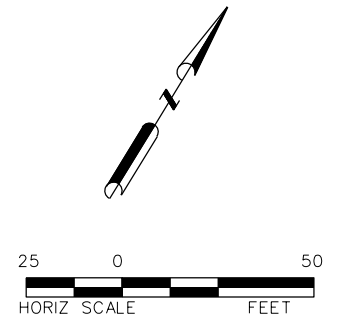
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

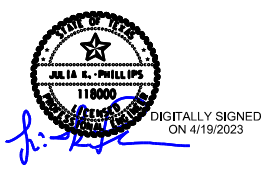
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 25 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1354
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

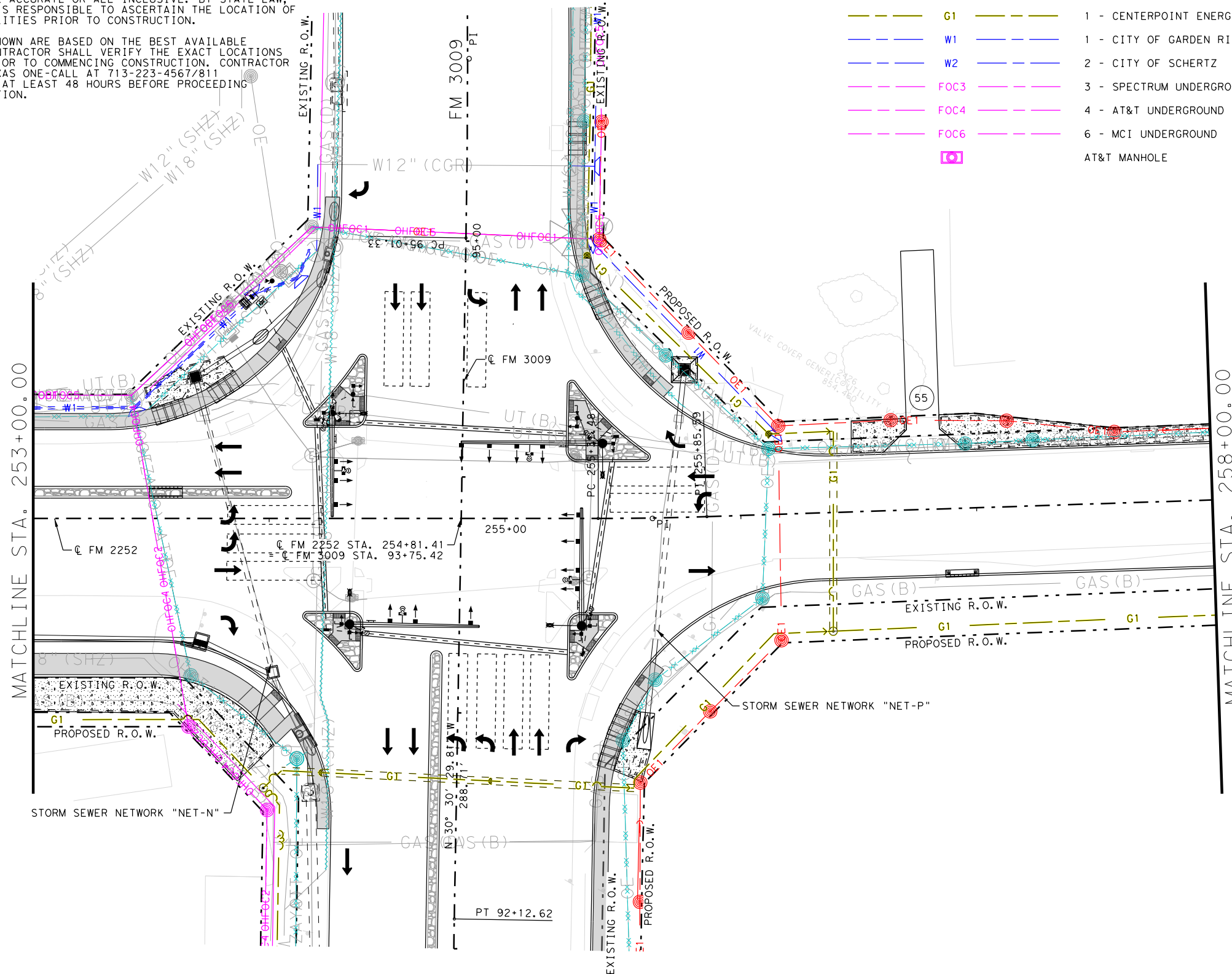
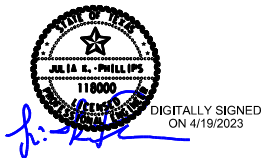
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 26 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1355
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

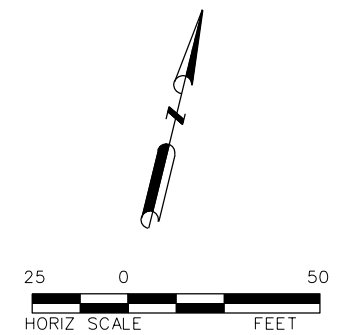
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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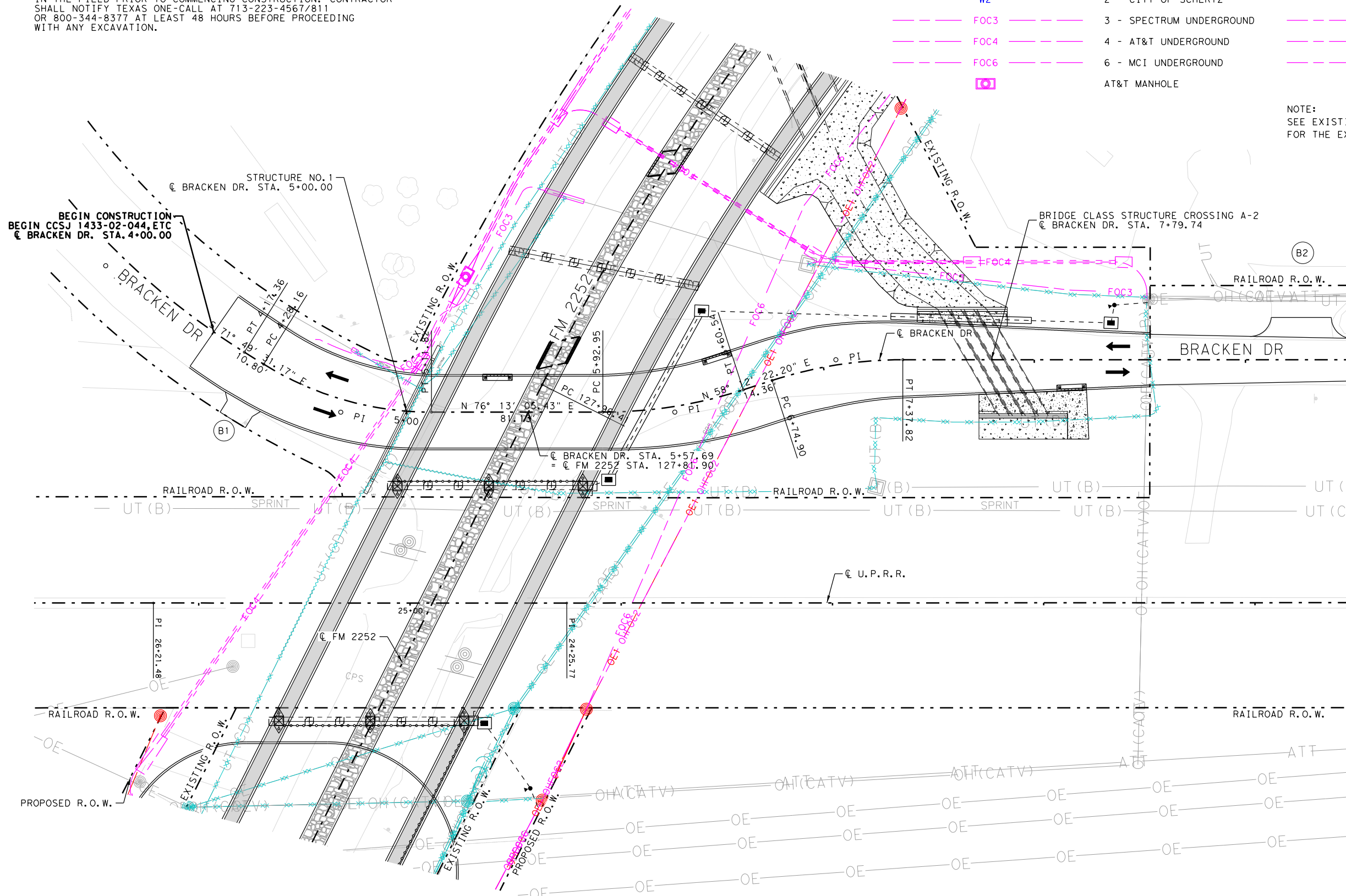
Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 28 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1357
CHK. JP	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION 02
DRW. AW	JOB NO. 044	HIGHWAY NO. FM2252		

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4/19/2023



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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

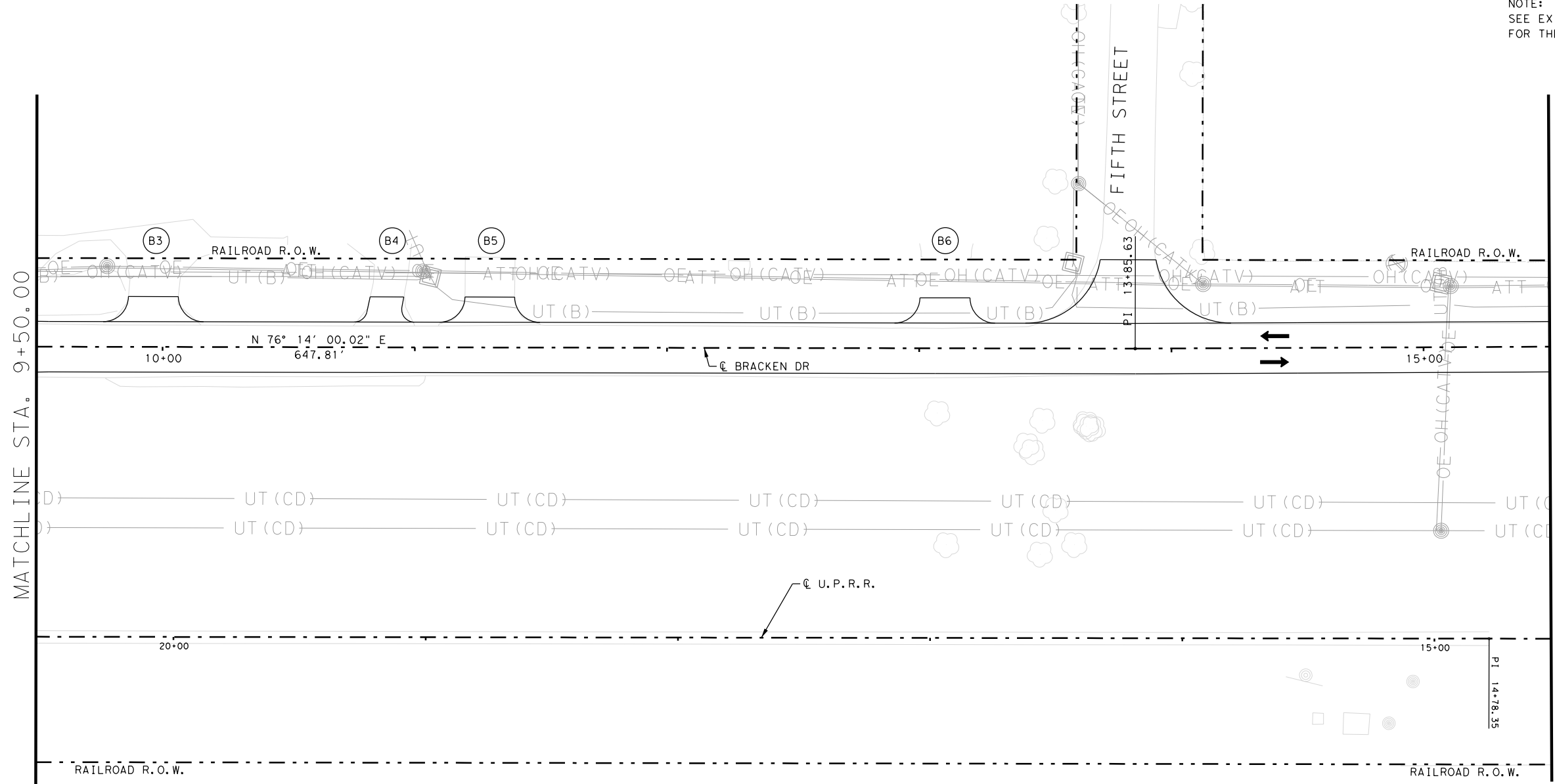
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

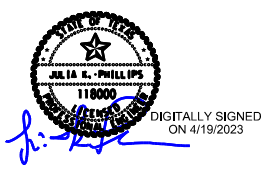
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 29 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1358
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

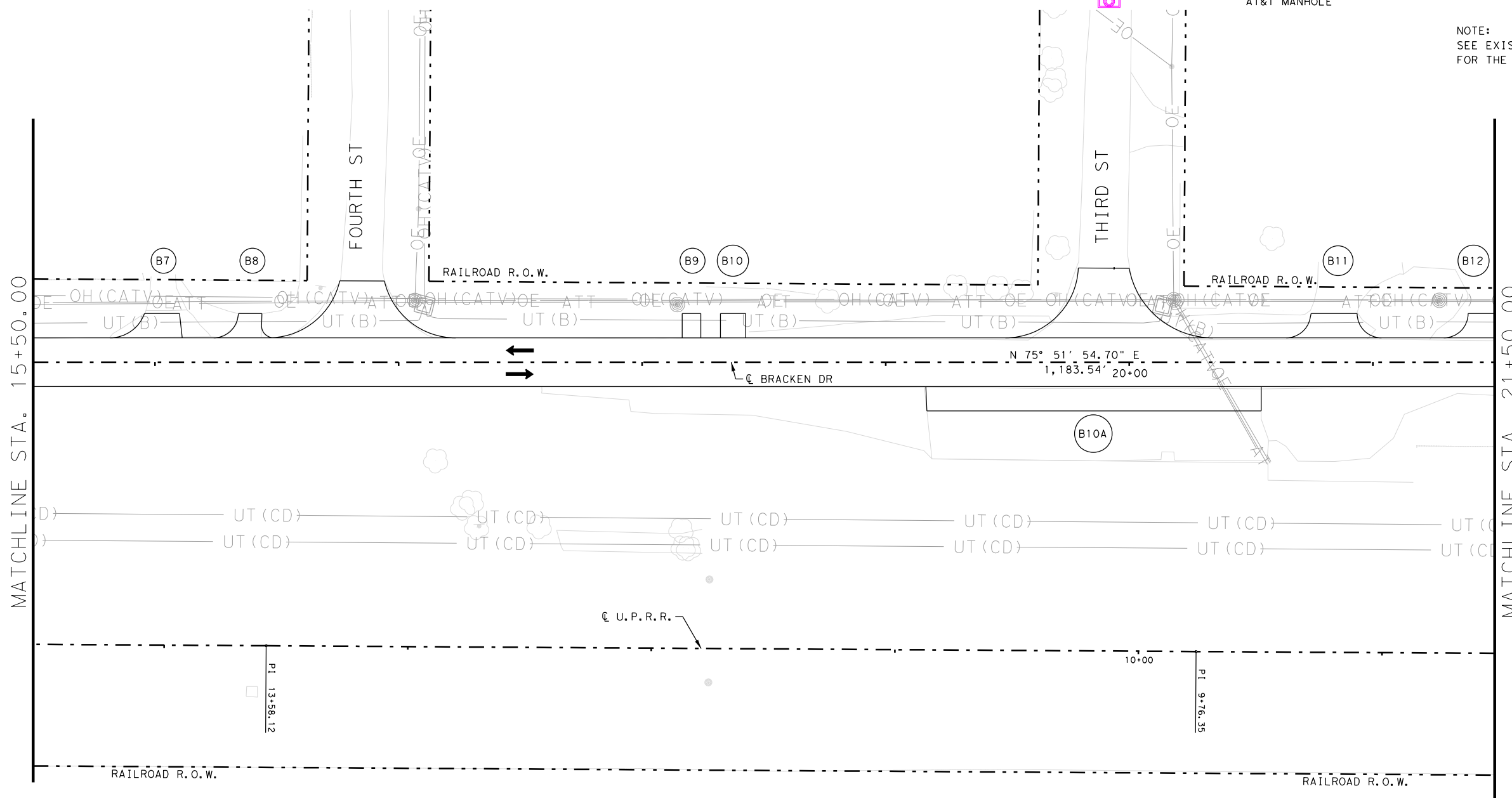
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

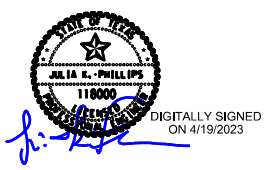
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 30 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1359
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

REVISED 4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

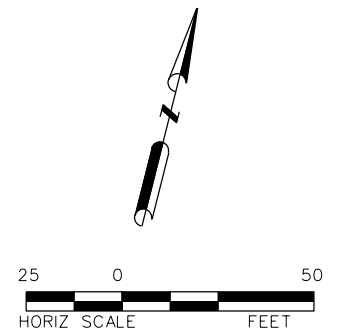
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

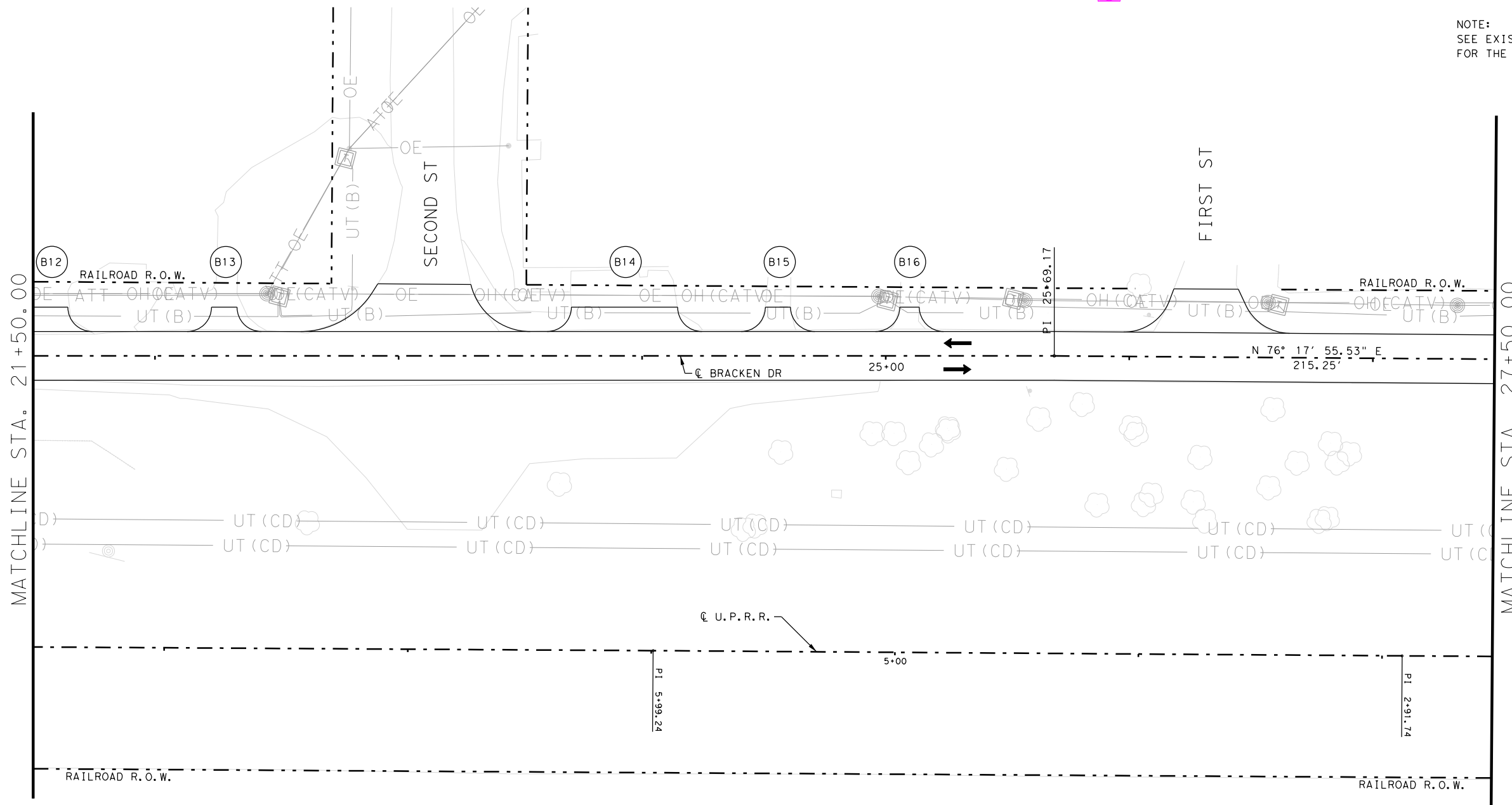
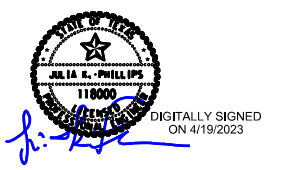
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 31 OF 36

DES.	JF	FED. RD. DIV. NO.	STATE	STATE PROJECT NO.	SHEET NO.		
CHK.	JP	15	TEXAS	SEE TITLE SHEET	1360		
DRW.	AW	STATE DIST. NO.	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	HIGHWAY NO.
CHK.	JP	SAT	COMAL, ETC	1433	02	044	FM2252

REVISED 4/19/2023

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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

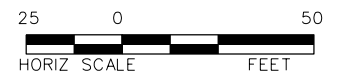
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

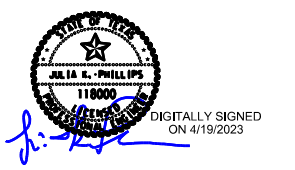
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



PLAN SUBJECT TO CHANGE AS UTILITIES ARE INSTALLED



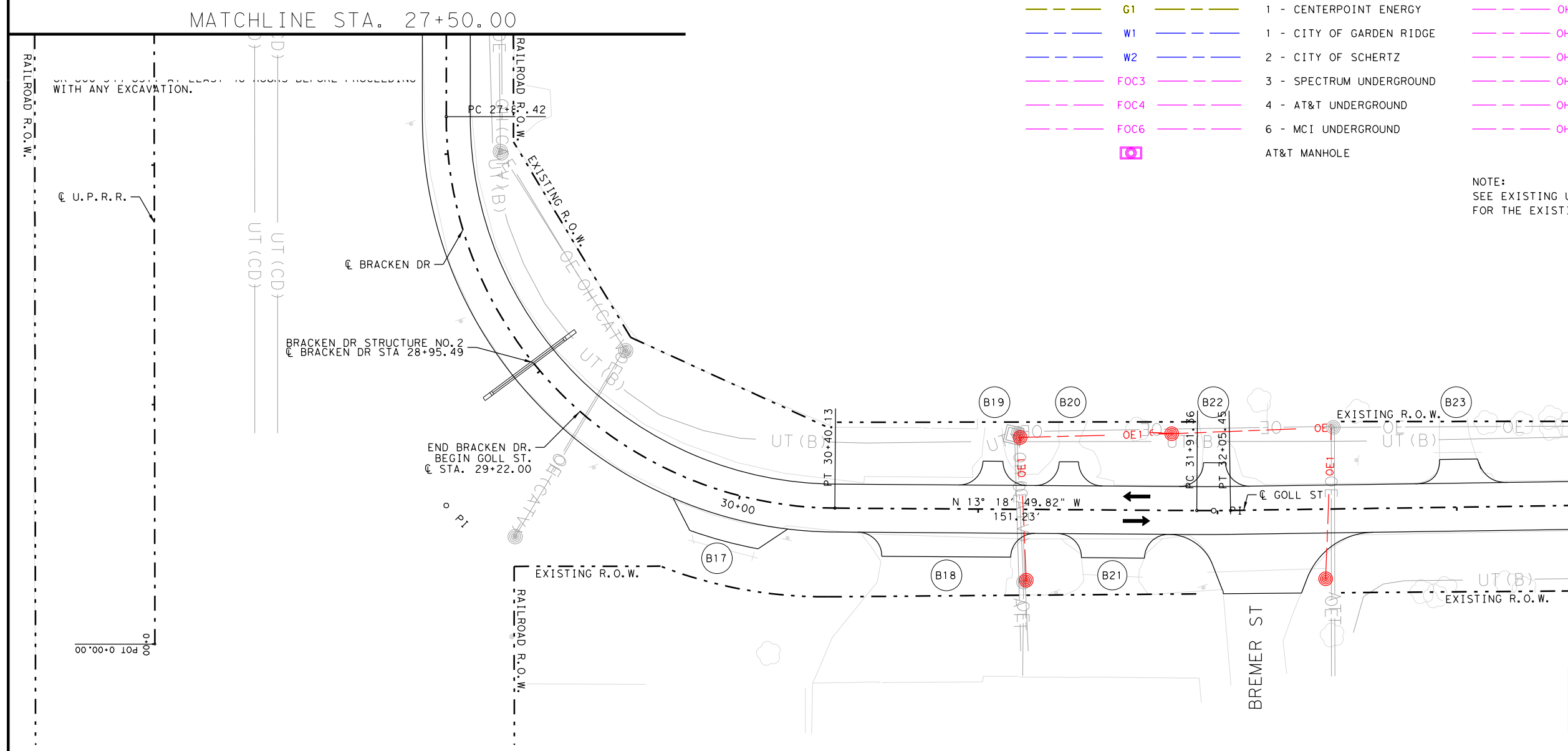
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Tel: 972-484-4800 • www.bgeinc.com
TBPE Registration No. F-1048

Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT
SHEET 32 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1361
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

REVISED 4/19/2023

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4/19/2023



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LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

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- UTILITY TO BE ABANDONED
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- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

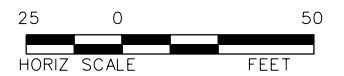
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

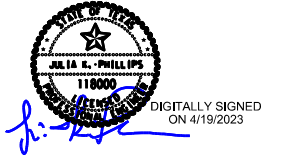
NOTE:
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LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



PLAN SUBJECT TO CHANGE AS UTILITIES ARE INSTALLED

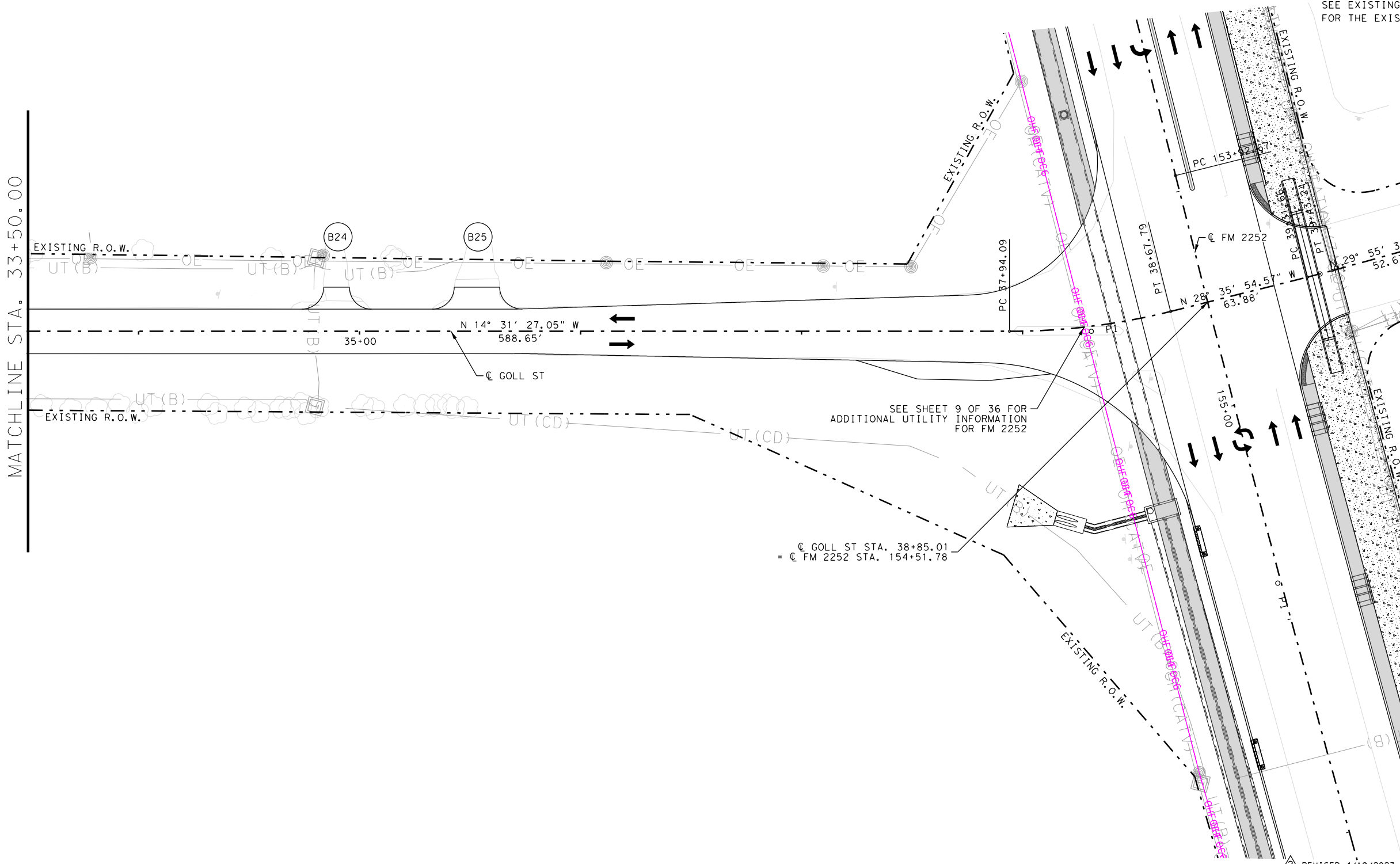


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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT

SHEET 33 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1362
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252



MATCHLINE STA. 33+50.00

SEE SHEET 9 OF 36 FOR ADDITIONAL UTILITY INFORMATION FOR FM 2252

☉ GOLL ST STA. 38+85.01
= ☉ FM 2252 STA. 154+51.78

REVISED 4/19/2023

NOTES:

1. NO EXPRESSED OR IMPLIED WARRANTIES ARE MADE BY TXDOT OR BGE, INC., FOR THE ACCURACY, COMPLETENESS, USABILITY, OR SUITABILITY OF THE UTILITY LINE DATA SHOWN HEREIN. THIS INFORMATION IS PROVIDED SO THE CONTRACTOR IS MADE AWARE OF THEIR GENERAL PROXIMITY TO THE PROPOSED WORK. THE INFORMATION SHOWN CONCERNING TYPE AND LOCATION OF UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. BY STATE LAW, THE CONTRACTOR IS RESPONSIBLE TO ASCERTAIN THE LOCATION OF ALL PROJECT UTILITIES PRIOR TO CONSTRUCTION.
2. ALL UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE-CALL AT 713-223-4567/811 OR 800-344-8377 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION.

LEGEND OF PROPOSED UTILITIES

UNDERGROUND UTILITIES:

- UTILITY TO BE REMOVED
- UTILITY TO BE ABANDONED
- G1 1 - CENTERPOINT ENERGY
- W1 1 - CITY OF GARDEN RIDGE
- W2 2 - CITY OF SCHERTZ
- FOC3 3 - SPECTRUM UNDERGROUND
- FOC4 4 - AT&T UNDERGROUND
- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

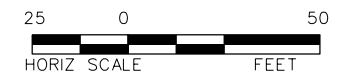
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

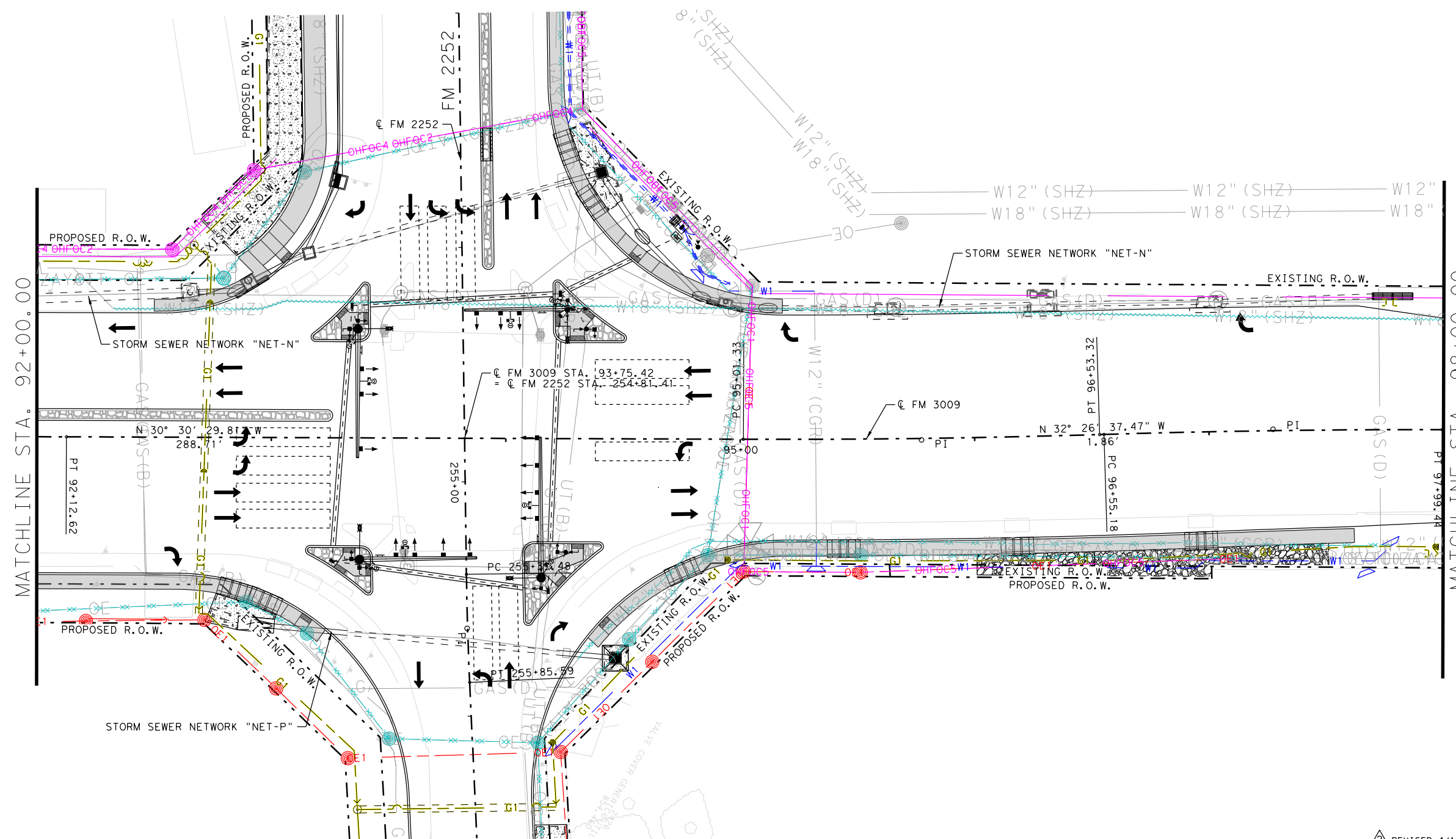
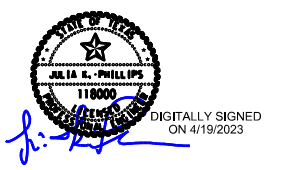
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
AS UTILITIES ARE INSTALLED**



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FM 2252
PROPOSED UTILITY LAYOUT

SHEET 35 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1364
CHK. JP	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION 02
DRW. AW			JOB NO. 044	HIGHWAY NO. FM2252
CHK. JP				ETC.

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LEGEND OF PROPOSED UTILITIES

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- FOC6 6 - MCI UNDERGROUND
- AT&T MANHOLE

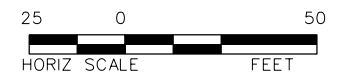
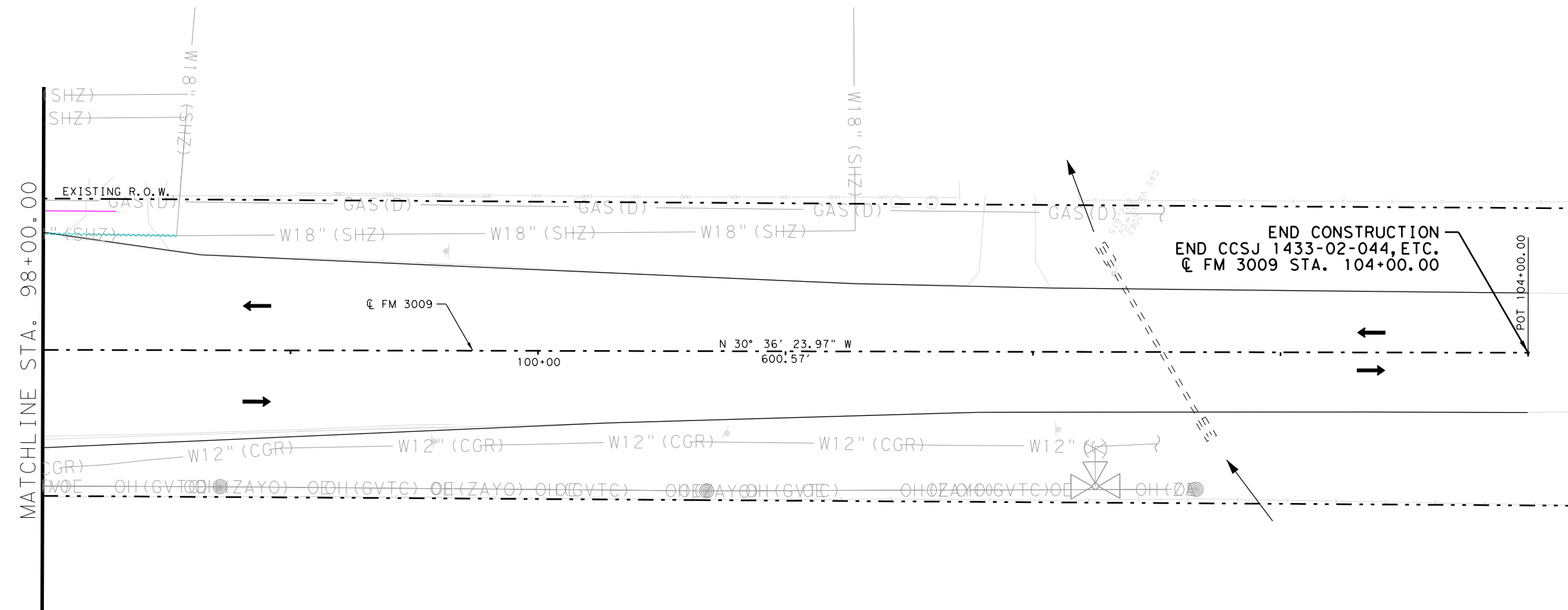
OVERHEAD UTILITIES:

- OE1 1 - CPS DISTRIBUTION
- OE2 2 - CPS TRANSMISSION
- OHFOC1 1 - CPS FIBER OVERHEAD
- OHFOC2 2 - ZAYO OVERHEAD
- OHFOC3 3 - SPECTRUM OVERHEAD
- OHFOC4 4 - AT&T OVERHEAD
- OHFOC5 5 - GVTC OVERHEAD
- OHFOC6 6 - MCI OVERHEAD
- CPS UTILITY POLE

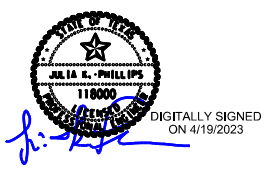
NOTE:
SEE EXISTING UTILITY LAYOUT SHEETS
FOR THE EXISTING UTILITY LEGEND

LEGEND

- PROP TRAFFIC LANE
- EXIST TRAFFIC LANE
- CONCRETE RIPRAP
- COLORED TEXTURE CONCRETE
- CONCRETE SIDEWALK



**PLAN SUBJECT TO CHANGE
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Texas Department of Transportation
FM 2252
PROPOSED UTILITY LAYOUT
SHEET 36 OF 36

DES. JF	FED. RD. DIV. NO. 15	STATE TEXAS	STATE PROJECT NO. SEE TITLE SHEET	SHEET NO. 1365
DRW. AW	STATE DIST. NO. SAT	COUNTY COMAL, ETC	CONTROL NO. 1433	SECTION NO. 02
CHK. JP			JOB NO. 044	HIGHWAY NO. FM2252

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