



Texas Department of Transportation

600 W. Interstate 2 | Pharr, Texas 78577-1231 | (956) 702-6100 | www.txdot.gov

April 19, 2018

RECEIVED

APR 19 2018

COUNTY JUDGE

Honorable Ramon Garcia
County Judge
P.O. Box 1356
Edinburg, TX 78540

RE: FM 2220 (Ware Rd), from Mile 5 Road to FM 1924 (CSJ: 2094-01-038)

Dear Judge Garcia,

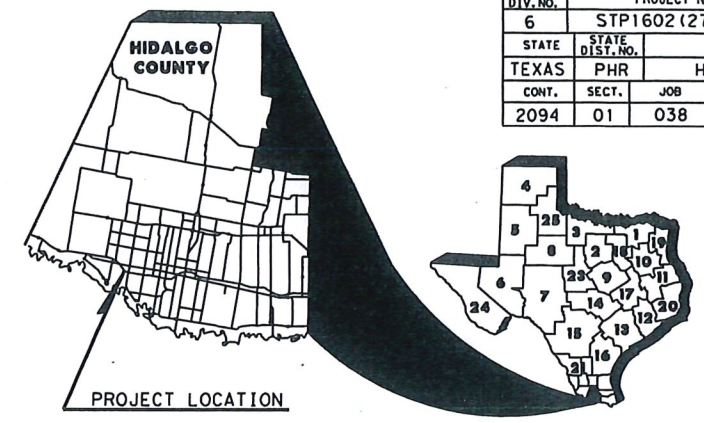
Attached for your review and signature is the Title sheet for the FM 2220 project between Auburn Ave. (Mile 5) to FM 1924 (Buddy Owens Blvd.). Also included for your review and use, is a copy of the design set of plans for the project.

Should you have any questions concerning this letter or if you want to discuss anything concerning the project itself, please contact me at (956) 702-6339. Thank you.

Sincerely,

Atidio (Rudy) Garza, Jr., P.E.
Project Manager, Central Design Section

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	STP1602(275)MM	1	
STATE	STATE DIST. NO.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220



STATE OF TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED STATE HIGHWAY IMPROVEMENT

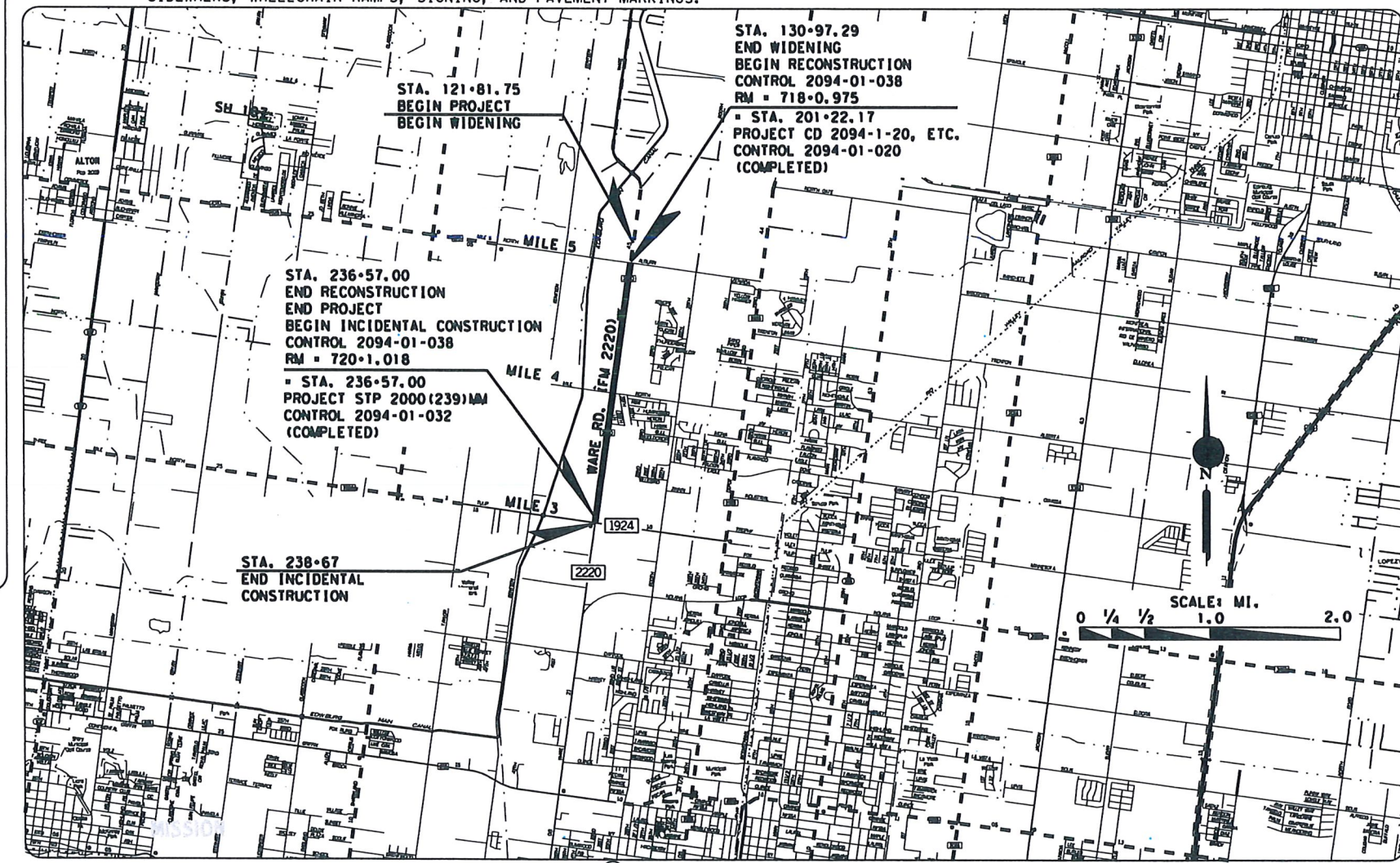
CSJ: 2094-01-038, etc.

NET LENGTH OF PROJECT TOTAL: = 11,475.25 FT = 2.173 MI.

LIMITS: FROM: AUBURN AVE. (MILE 5)
TO: FM 1924 (MILE 3)

FM 2220
HIDALGO COUNTY

CONSTRUCTION AND UPGRADING OF A NON-FREEWAY ROAD FACILITY & STORM DRAINAGE SYSTEM CONSISTING OF: WIDENING, GRADING, LIME TREAT. SUBGRADE, FLEXIBLE BASE, ASPHALTIC CONCRETE PAVEMENT, RAISED MEDIAN, CURB & GUTTER, DRAINAGE STRUCTURES, SIDEWALKS, WHEELCHAIR RAMPS, SIGNING, AND PAVEMENT MARKINGS.



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REGISTERED ACCESSIBILITY SPECIALIST (RAS) INSPECTION REQUIRED TDLR NO. EABPRJ

FINAL PLAN DATA :
 FINAL CONTRACT PRICE : _____
 CONTRACTORS NAME : _____
 CONTRACTORS ADDRESS : _____
 LETTING DATE : _____
 DATE WORK BEGAN : _____
 DATE WORK COMPLETED: _____
 DATE OF ACCEPTANCE: _____

CHANGE ORDERS & SUPP. AGREEMENTS :

ALL CONSTRUCTION WORK WAS PERFORMED IN ACCORDANCE WITH THE PLANS SPECIFICATIONS AND CONTRACT. ALL PROPOSED CONSTRUCTION WAS COMPLETED UNLESS OTHERWISE NOTED.

RENE GARZA, P.E. _____ DATE _____
 AREA ENGINEER

LOCAL ENTITIES	
CITY OF MCALLEN PLANS APPROVED :	DATE : 4/12/18
<i>James E. Darling</i> NAME	7/19/18 TITLE
COUNTY OF HIDALGO PLANS APPROVED :	DATE : _____
NAME	TITLE
HIDALGO CO. DRAINAGE DIST. No. 1 PLANS APPROVED :	DATE : _____
NAME	TITLE
HIDALGO CO. IRRIGATION DIST. No. 1 PLANS APPROVED :	DATE : _____
NAME	TITLE

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION ON NOVEMBER 1, 2014 AND SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT. REQUIRED CONTRACT PROVISIONS FOR FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MAY 2012).

PROJECT DATA

DESIGN SPEED:
AUBURN AVE. TO FM 1924: 50 MI/HR

FM 2220

A. D. T.
AUBURN AVE. TO FM 1924
YEAR - 2015 A. D. T. = 14,500
YEAR - 2035 A. D. T. = 21,500

EXCEPTION : NONE
 EQUATION : NONE
 RAILROAD CROSSING : NONE

TEXAS DEPARTMENT OF TRANSPORTATION	
SUBMITTED FOR LETTING :	DATE: 4/12/18
<i>[Signature]</i> DISTRICT CENTRAL DESIGN SUPERVISOR	RECOMMEND FOR LETTING : <i>[Signature]</i> DISTRICT ENGINEER
APPROVED FOR LETTING :	DATE: _____
APPROVED FOR LETTING :	DATE: _____
DIRECTOR OF TRAFFIC OPERATIONS DIVISION	DIRECTOR, DESIGN DIVISION

FM 2220 (2094-01-038)

FILE: t:\engdata\projects\FM2220\2220t11.e.dgn

COUNTY: HIDALGO PROJ. NO. _____
 HWY. NO.: FM 2220 LETTING DATE _____
 DATE ACCEPTED _____

STA. 121+81.75
 BEGIN PROJECT
 CSJ 2094-01-038
 BEGIN WIDENING

STA. 130+97.29
 END WIDENING
 BEGIN RECONSTRUCTION

STA. 238+67
 END INCIDENTAL
 CONSTRUCTION

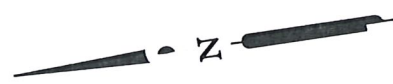
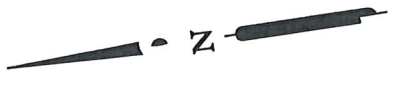
STA. 236+57.00
 END PROJECT
 BEGIN INCIDENTAL CONSTR.
 CSJ 2094-01-038

MATCH LINE STA. 182+49.82

MATCH LINE STA. 182+49.82

FM 1924
 (BUDDY OWENS BLVD.)

LEVELS DISPLAYED:
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
 ACC: 481A1A1/JST/081303



Atidio R. Garza
 P.E.
 03/30/2018

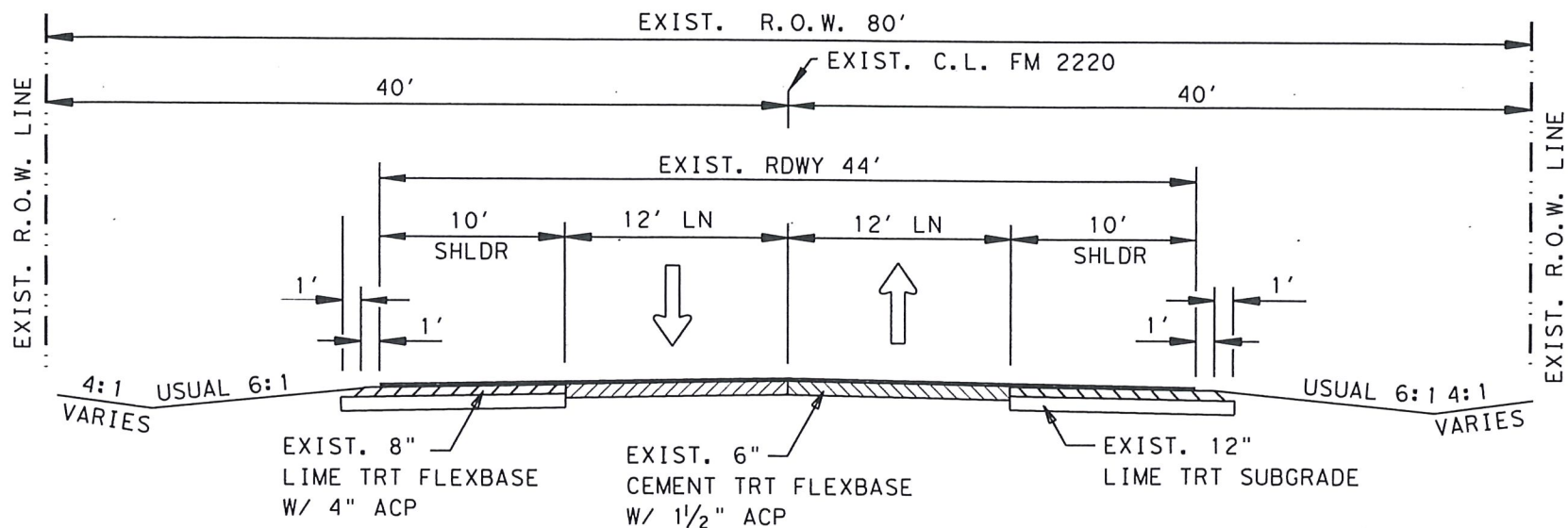
Texas Department of Transportation
 SCALE: 1" = 400' © 2014 TxDOT

FED. RD. DIV. NO.	FEDERAL PROJECT NO.	SHEET NO.	
6	STP1602(275)MM	4	
STATE	DIST.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

PROJECT LAYOUT

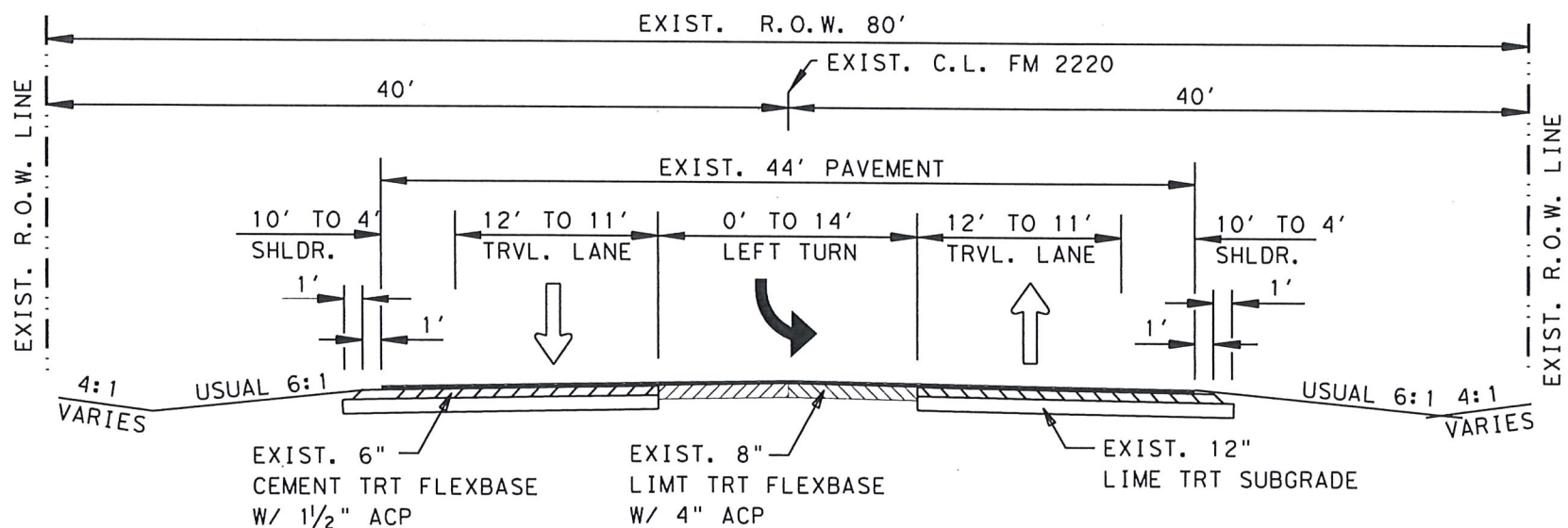
SHEET 1 OF 1

FILE: c:\xtdot\pwworking\line\txdot5\matt\hew.garrett\d0129247\FM 2220 TYPICALS*REVISED.dgn
 DATE: 3/29/2018 4:56:45 PM



EXISTING FM 2220 TYPICAL SECTION

STA. 121+81.75 TO STA. 127+60.00
 STA. 141+70.00 TO STA. 180+40.00
 STA. 194+50.00 TO STA. 208+53.50
 STA. 221+93.00 TO STA. 222+95.00



EXISTING FM 2220 TYPICAL SECTION

STA. 127+60.00 TO STA. 141+70.00
 STA. 180+40.00 TO STA. 194+50.00
 STA. 208+53.50 TO STA. 216+48.00

NOTES:

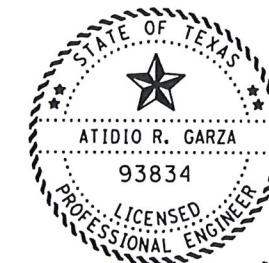
A STATION IS EQUAL TO 100 FT.

H.M.A.C.P. APPLICATIONS RATES EQUIVALENCIES:

1.5" = 171 #/SY

2" = 228 #/SY

DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED



Atidio R. Garza
 03/30/2018

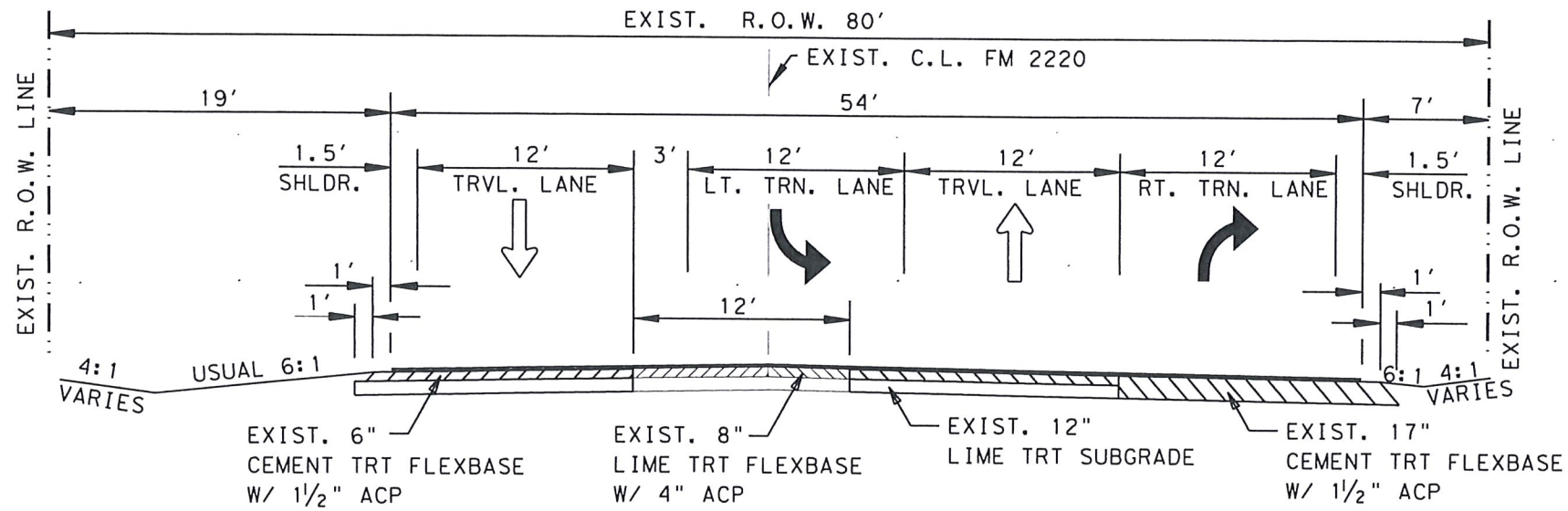
NOT TO SCALE

SHEET 1 OF 4



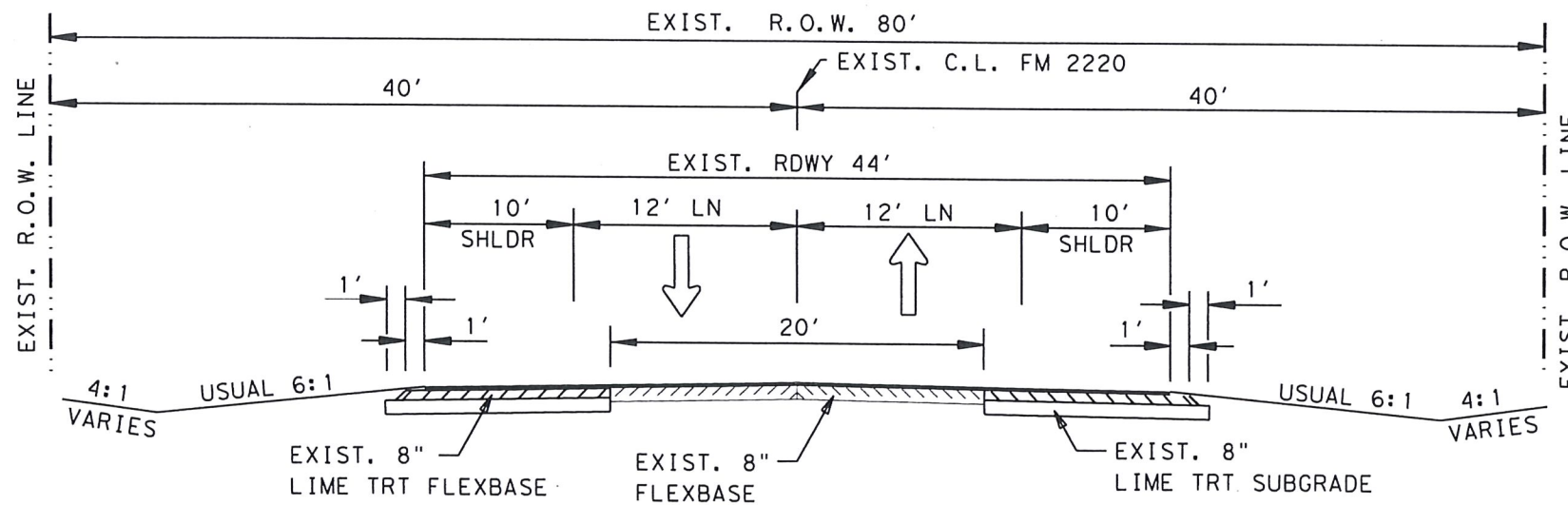
**FM 2220
 EXISTING
 TYPICAL SECTIONS**

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP1602 (275)MM		5
STATE	DIST.	COUNTY	
TEXAS	PHARR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

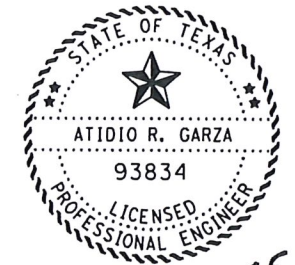


EXISTING FM 2220 TYPICAL SECTION
 STA. 216+48.00 TO STA. 221+93.00

NOTES:
 A STATION IS EQUAL TO 100 FT.
 H.M.A.C.P. APPLICATIONS RATES EQUIVALENCIES:
 1.5" = 171 #/SY
 2" = 228 #/SY
 DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED



EXISTING FM 2220 TYPICAL SECTION
 STA. 222+95.00 TO STA. 225+57.00



Atidio R. Garza
 03/30/2018

NOT TO SCALE SHEET 2 OF 4

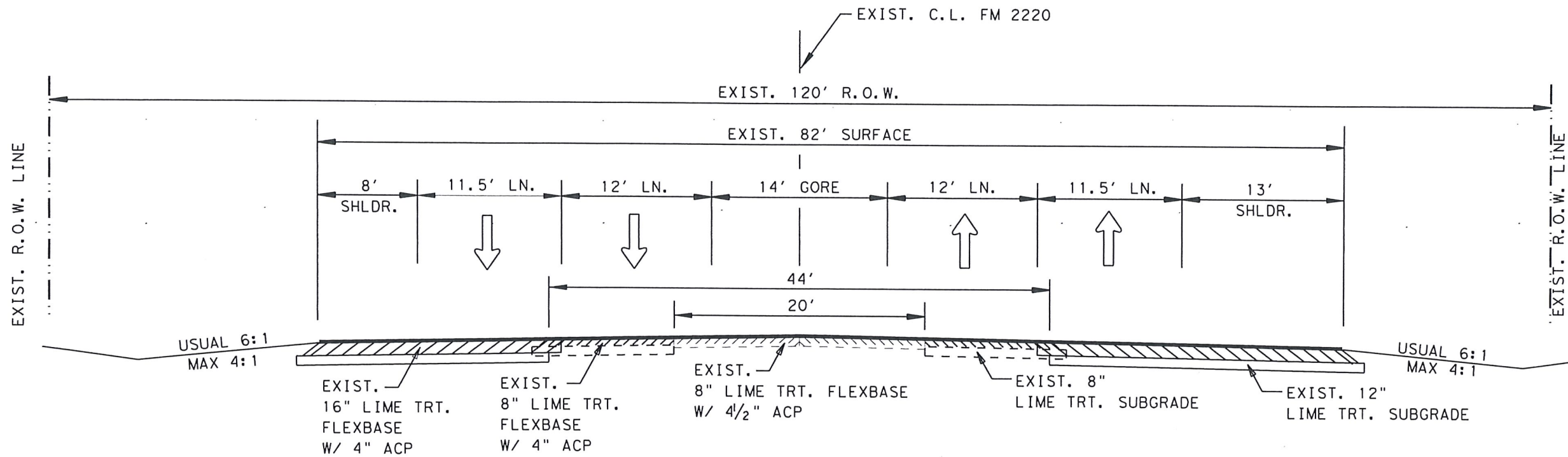


**FM 2220
 EXISTING
 TYPICAL SECTIONS**

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP1602 (275)MM		6
STATE	DIST.	COUNTY	
TEXAS	PHARR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

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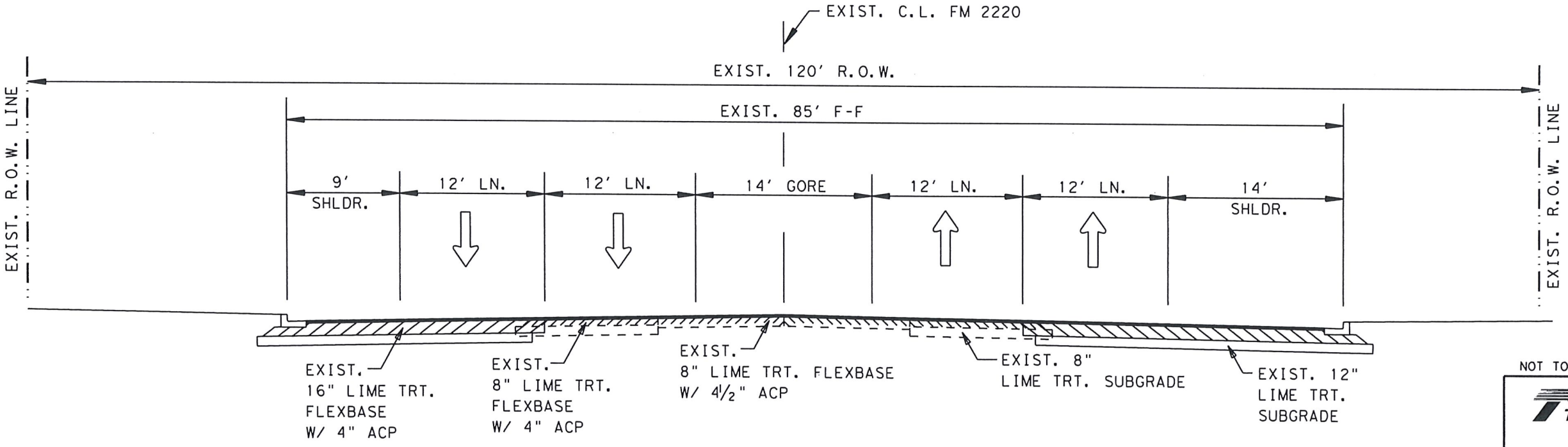
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EXISTING FM 2220 TYPICAL SECTION

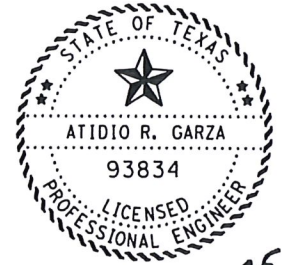
STA. 225+57.00 TO STA. 231+57.00
 (WIDENING FROM 82' TO 85' F-F)

NOTES:
 A STATION IS EQUAL TO 100 FT.
 H.M.A.C.P. APPLICATIONS RATES
 EQUIVALENCIES:
 1.5" = 171 #/SY
 3" = 342 #/SY
 DIMENSIONS ARE IN FEET UNLESS
 OTHERWISE NOTED



EXISTING FM 2220 TYPICAL SECTION

STA. 231+57.00 TO STA. 234+57.00
 (WIDENING FROM 85' F-F TO 103' F-F)



Atidio R. Garza
 03/30/2018

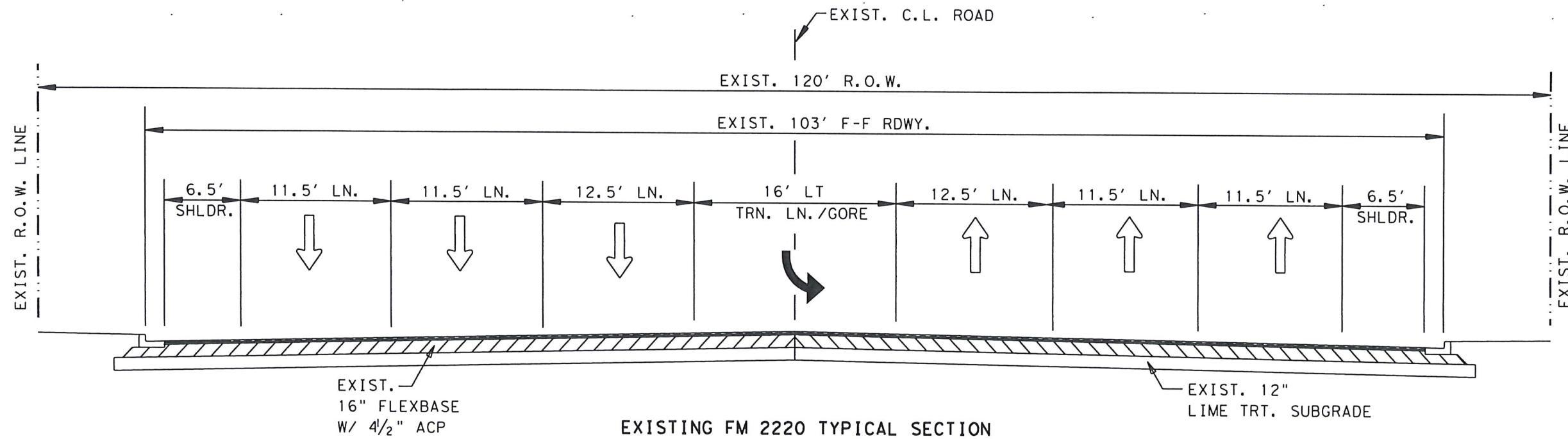
NOT TO SCALE SHEET 3 OF 4

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Texas Department of Transportation

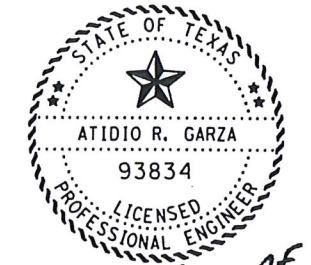
**FM 2220
 EXISTING
 TYPICAL SECTIONS**

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP1602 (275)MM		7
STATE	DIST.	COUNTY	
TEXAS	PHARR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

NOTES:
 A STATION IS EQUAL TO 100 FT.
 H.M.A.C.P. APPLICATIONS RATES
 EQUIVALENCIES:
 1.5" = 171 #/SY
 3" = 342 #/SY
 DIMENSIONS ARE IN FEET UNLESS
 OTHERWISE NOTED



EXISTING FM 2220 TYPICAL SECTION
 (NORTH OF FM 1924)
 STA. 234+57.00 TO STA. 236+57



Atidio R. Garza P.E.
 03/30/2018

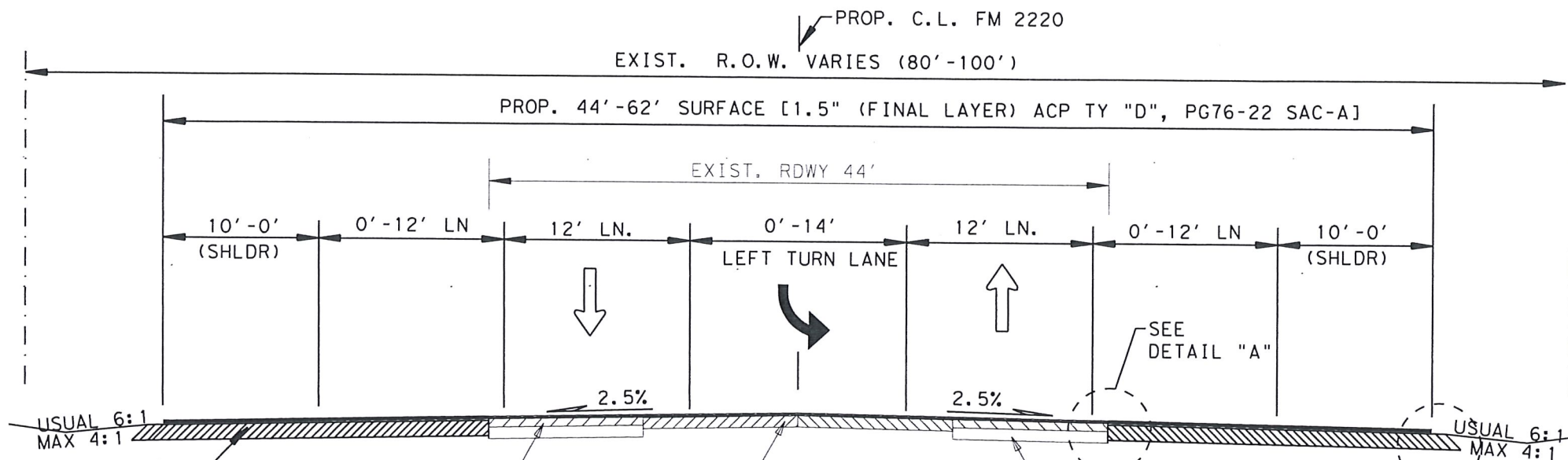
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NOT TO SCALE SHEET 4 OF 4

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**FM 2220
 EXISTING
 TYPICAL SECTIONS**

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	STP1602 (275)MM	8	
STATE	DIST.	COUNTY	
TEXAS	PHARR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220



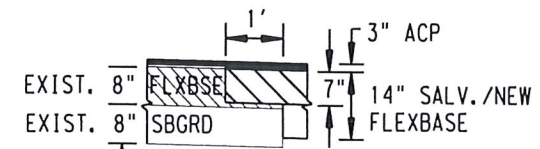
PROP. 14" FLEXBASE
W/1.5" (INITIAL LAYER) ACP TY "D",
PG76-22 SAC A (171#/SY)
(BOTH SIDES)
EST. 24.6 CY/STA.
W/2% LIME ADMIX. BY
WT. (NEW/SALVAGE)
W/TOP 4" NEW MATERIAL
EST. 0.83 TONS/STA.

PROPOSED FM 220 TYPICAL SECTION

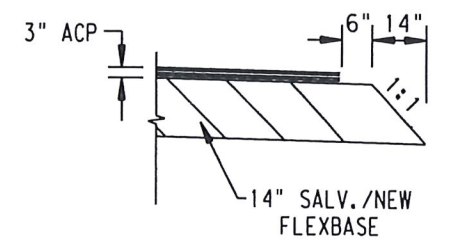
STA. 121+81.75 TO STA. 127+81.75
(WIDENING FROM 44' TO 62')

SEE
DETAIL "A"

SEE
DETAIL "B"



DETAIL "A" (N.T.S.)
BOTH SIDES



DETAIL "B" (N.T.S.)
BOTH SIDES



[Signature]
03/30/2018

NOT TO SCALE SHEET 1 OF 2

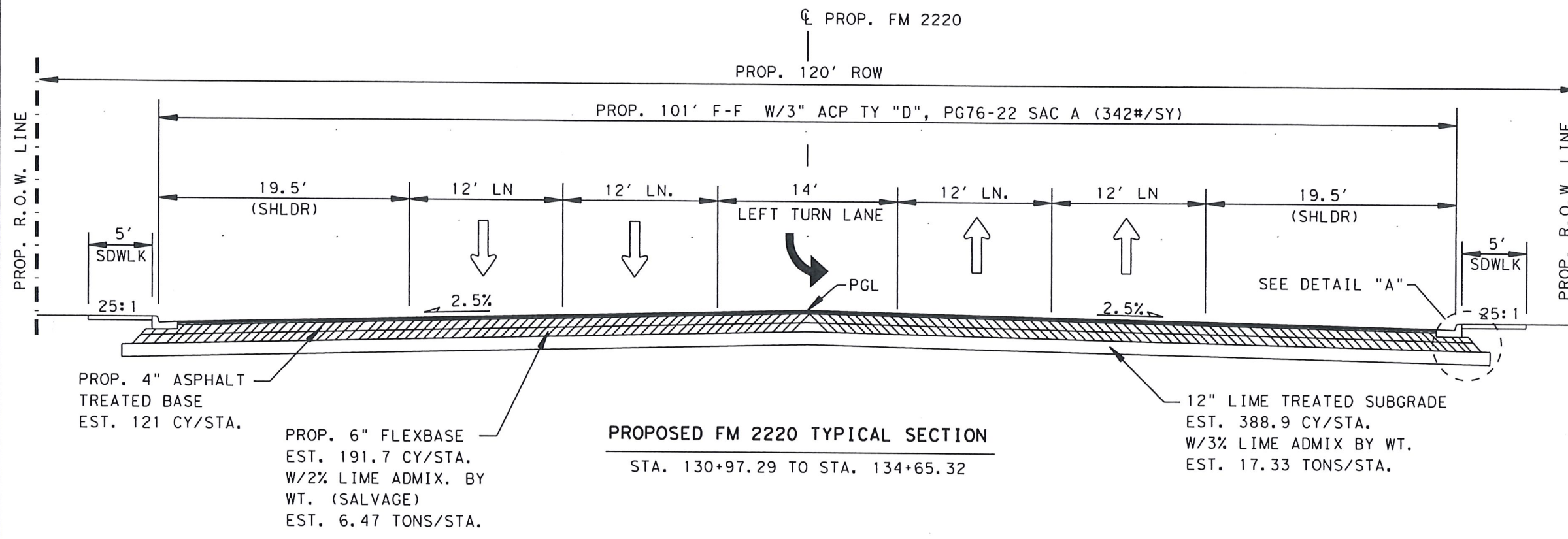


**FM 2220
PROPOSED
TYPICAL SECTIONS**

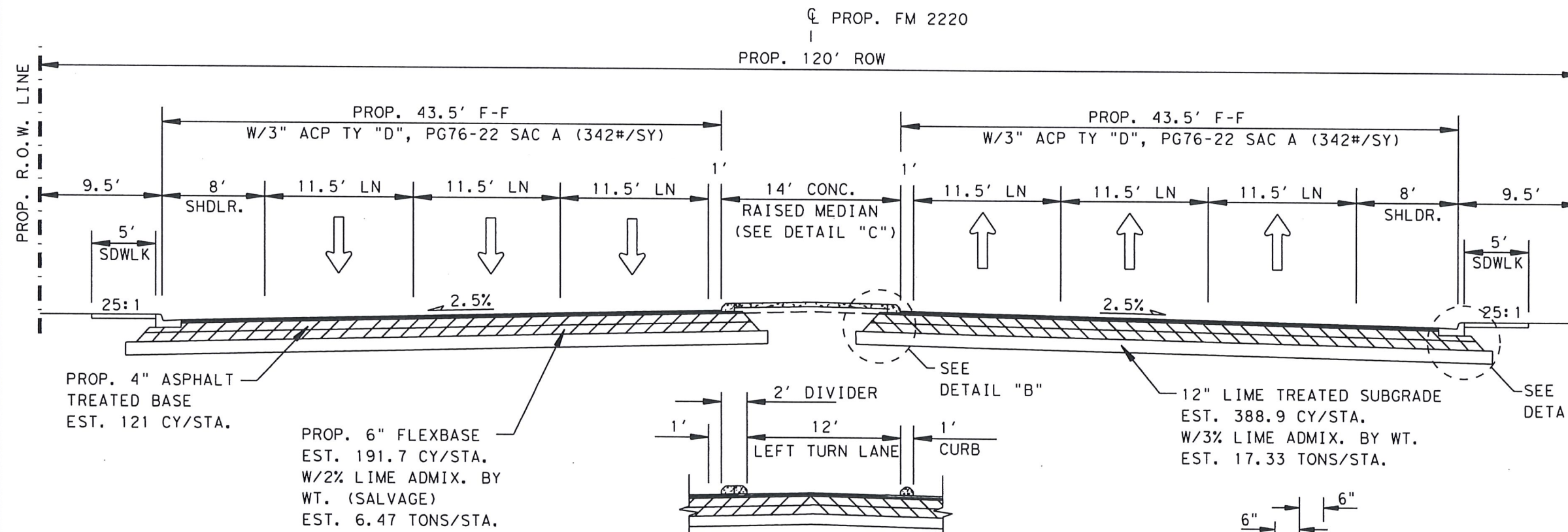
FED. RD. D.I.V. NO.	PROJECT NO.		SHEET NO.
6	STP1602 (275)MM		9
STATE	DIST.	COUNTY	
TEXAS	PHARR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

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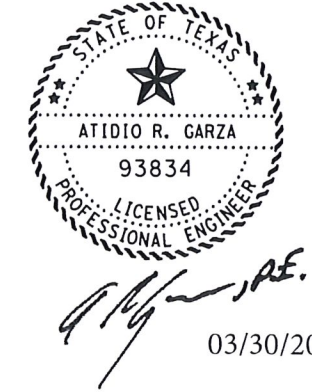
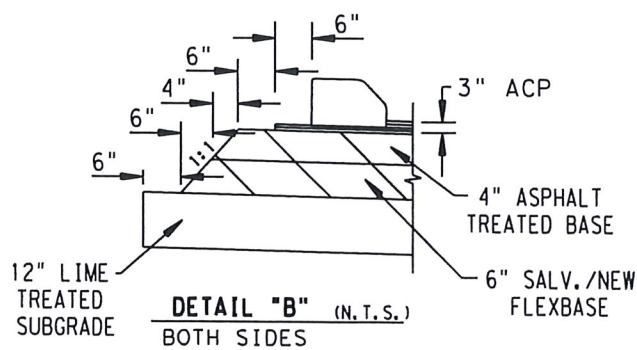
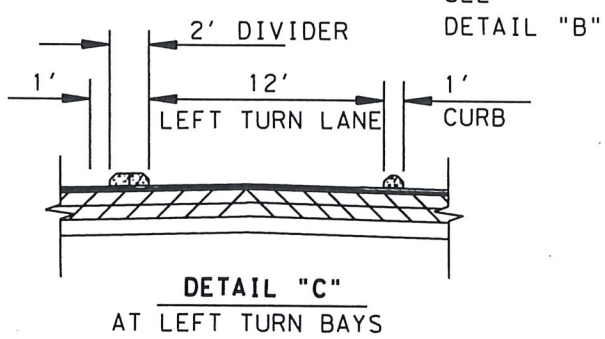
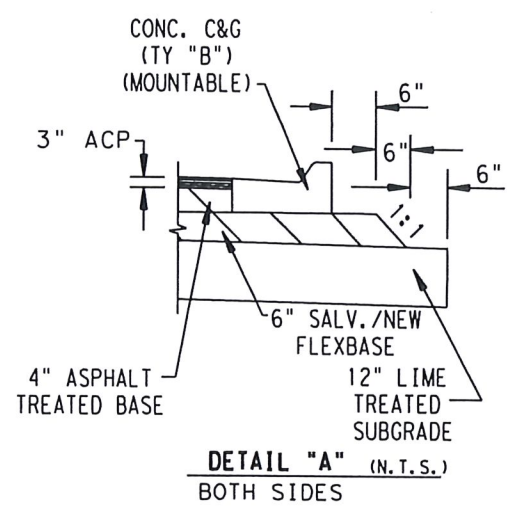


PROPOSED FM 2220 TYPICAL SECTION
 STA. 130+97.29 TO STA. 134+65.32



PROPOSED FM 2220 TYPICAL SECTION
 STA. 134+65.32 TO STA. 238+67.00

NOTES:
 DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED
 CURB & GUTTER TO BE POURED AFTER THE FLEXBASE PASSES DENSITY OR APPROVED BY ENGINEER.
 WHERE POSSIBLE AND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, PERMISSIBLE CONSTRUCTION JOINTS SHALL FALL ON STRIPING LINES AS SHOWN ON STRIPING DETAILS
 ALL GRADING SHALL BE WITHIN R.O.W. LIMITS.
 THE SUBGRADE SHALL BE SHAPED AS PER DETAIL "A".
 EXISTING ACP & FLEXBASE TO BE SALVAGED UNDER ITEM 251.
 THE % LIME SHOWN ON TYPICAL SECTIONS FOR ITEM 247 "FLEXBASE" IS SEPARATE FROM LIME WHICH MAY BE REQUIRED TO MEET P.I. AND TRIAXIAL REQUIREMENTS ADDED AT CONTRACTOR'S EXPENSE.



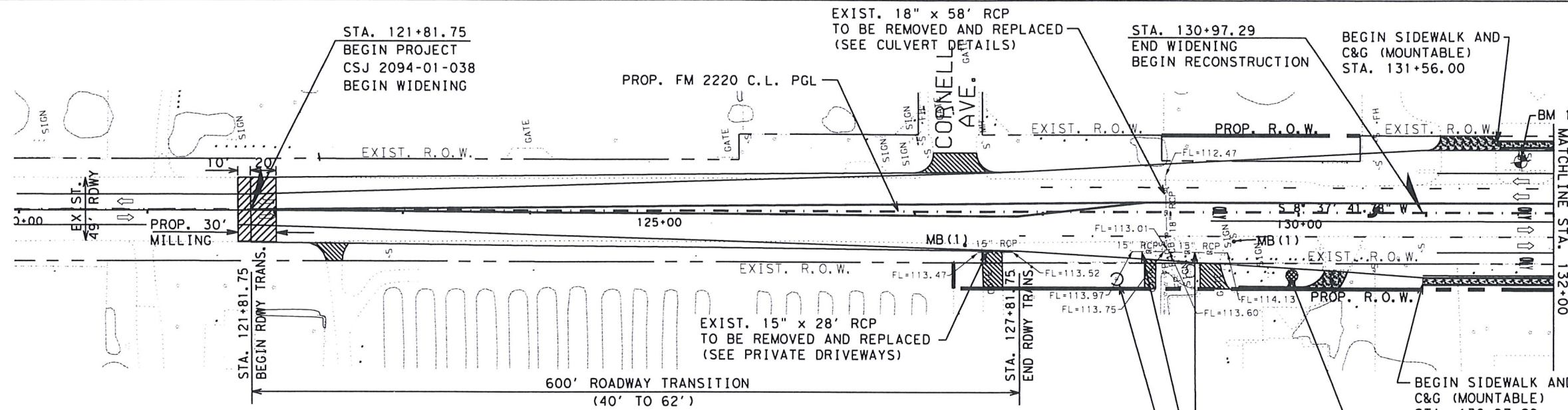
03/30/2018

NOTES:
 PGL - PROFILE GRADE LINE
 PCJ - PERMISSIBLE CONSTRUCTION JOINT
 A STATION IS EQUAL TO 100 FT.
 H.M.A.C.P. APPLICATIONS RATES EQUIVALENCIES:
 1.5" = 171 #/SY
 3" = 342 #/SY

NOT TO SCALE SHEET 2 OF 2

© TxDOT 2014 Texas Department of Transportation		FM 2220 PROPOSED TYPICAL SECTIONS	
FED. RD. DIV. NO. 6	PROJECT NO. STP1602 (275)MM	SHEET NO. 10	
STATE TEXAS	DIST. PHARR	COUNTY HIDALGO	
CONT. 2094	SECT. 01	JOB 038	HIGHWAY NO. FM 2220

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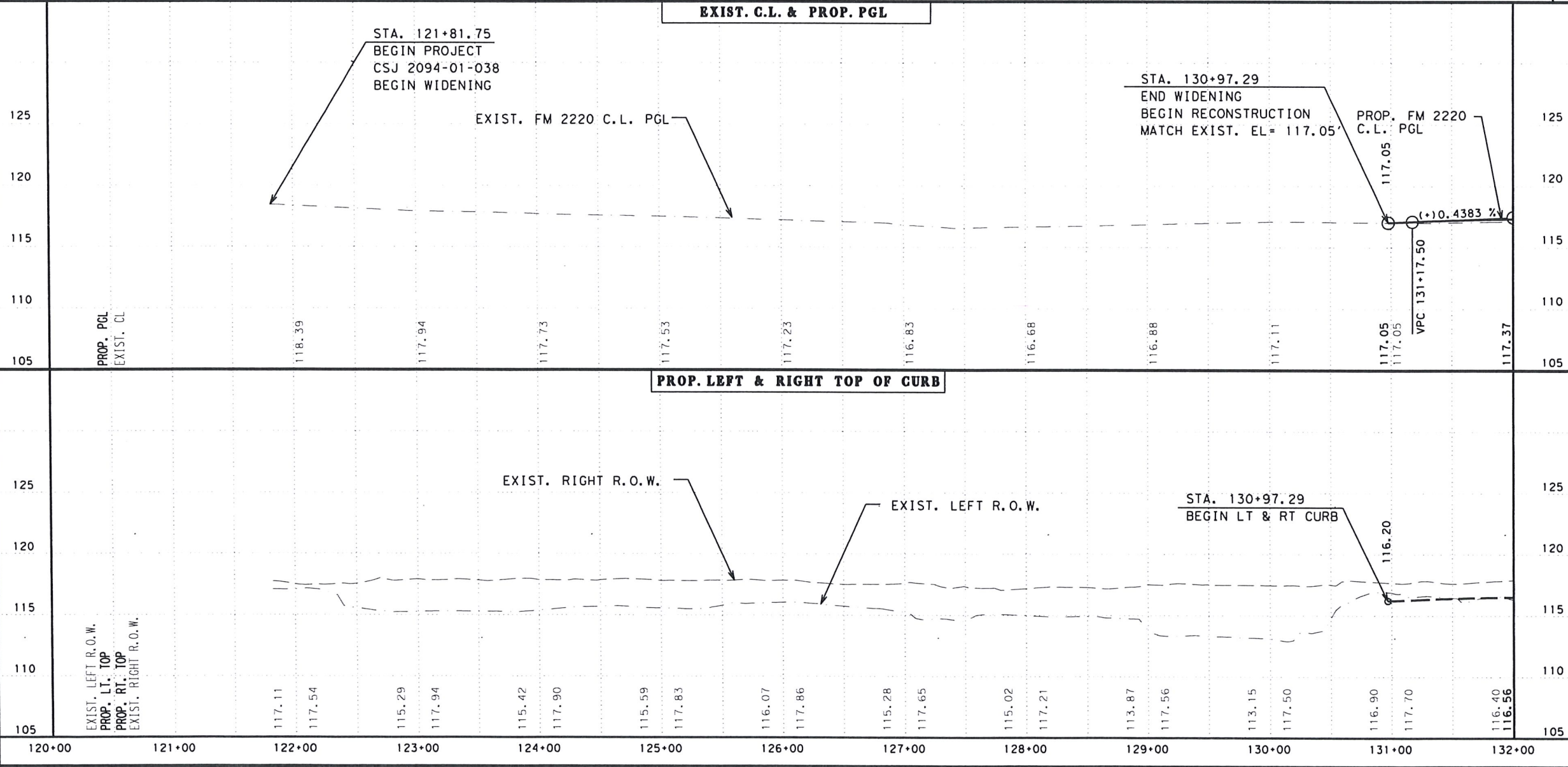
LEGEND:

- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDWALK
- PROP. PLANING (1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	10.0		SY	REMOVE CONC. SIDEWALK
354	163.3		SY	PLANING ASPH. (1/2")
467	2		EA	SET (TY II) (18 IN) (RCP) (3:1) (C)
496	130		LF	REMOVE CONC. PIPE
529	149		LF	CONC. C&G TY "B" (MOUNTABLE)
531	81		SY	CONC. SIDEWALK (4")
560	2		EA.	MAILBOXES

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.



LEGEND:
 - - - - - EXIST. C.L.
 ——— PROP. PGL

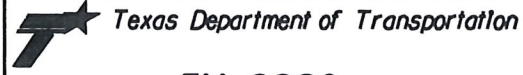
GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



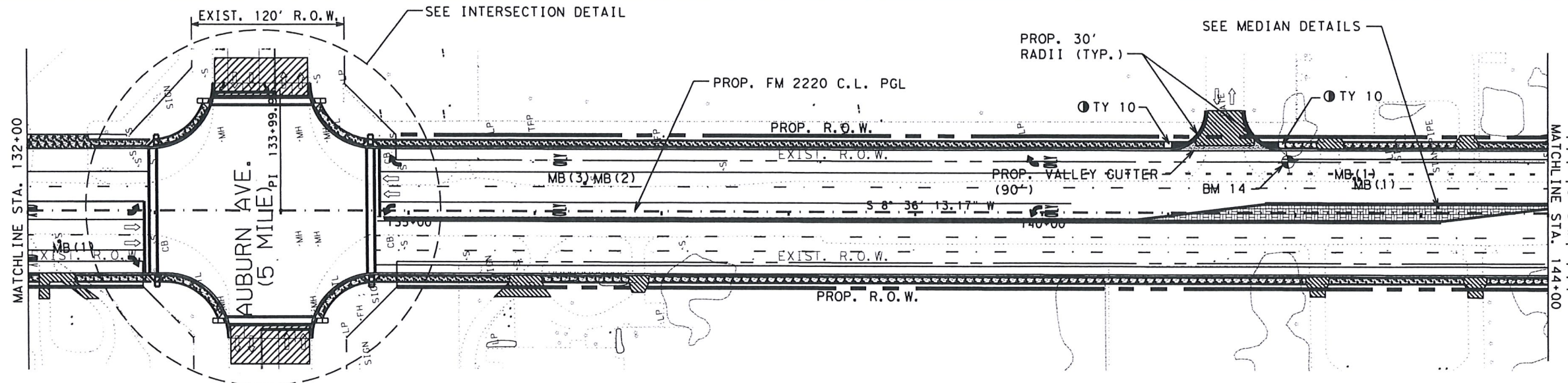
Atidio R. Garza
 03/30/2018

PLAN 1" = 100' HORIZ. 1" = 100'
 VERT. 1" = 10'



**FM 2220
 PLAN & PROFILE**

© TxDOT 2014				
PROJECT NO.		SHEET 1 OF 10 SHEET		SHEET NO.
STP1602(275)MM				116
FED. RD. DIV. NO.	STATE	DIST.	COUNTY	CONT. SECT. JOB HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094 01 038 FM 2220



LEGEND:

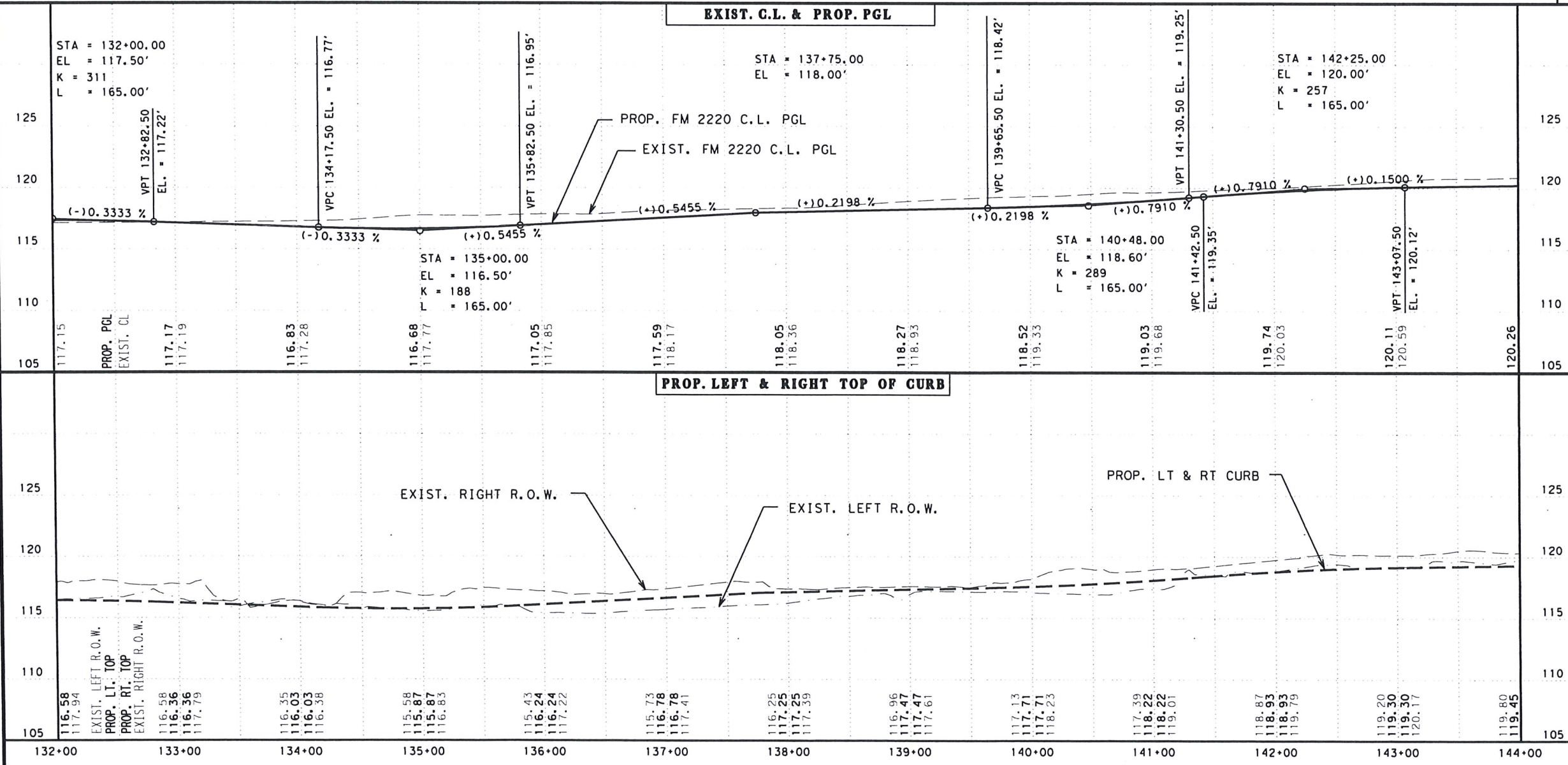
- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDWALK
- PROP. PLANING (1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

NOTE:
THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
529	2043		LF	CONC. C&G TY "B" (MOUNTABLE)
529	90		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1087		SY	CONC. SIDEWALK (4")
531	2		EA.	WHEELCHAIR RAMP (TYPE 10)
560	3		EA.	MAILBOXES
560	1		EA.	DOUBLE MAILBOXES
560	1		EA.	MULTIPLE MAILBOXES

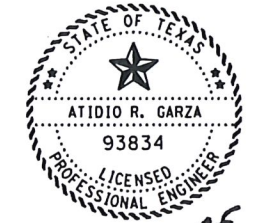
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LEGEND:
--- EXIST. C.L.
— PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



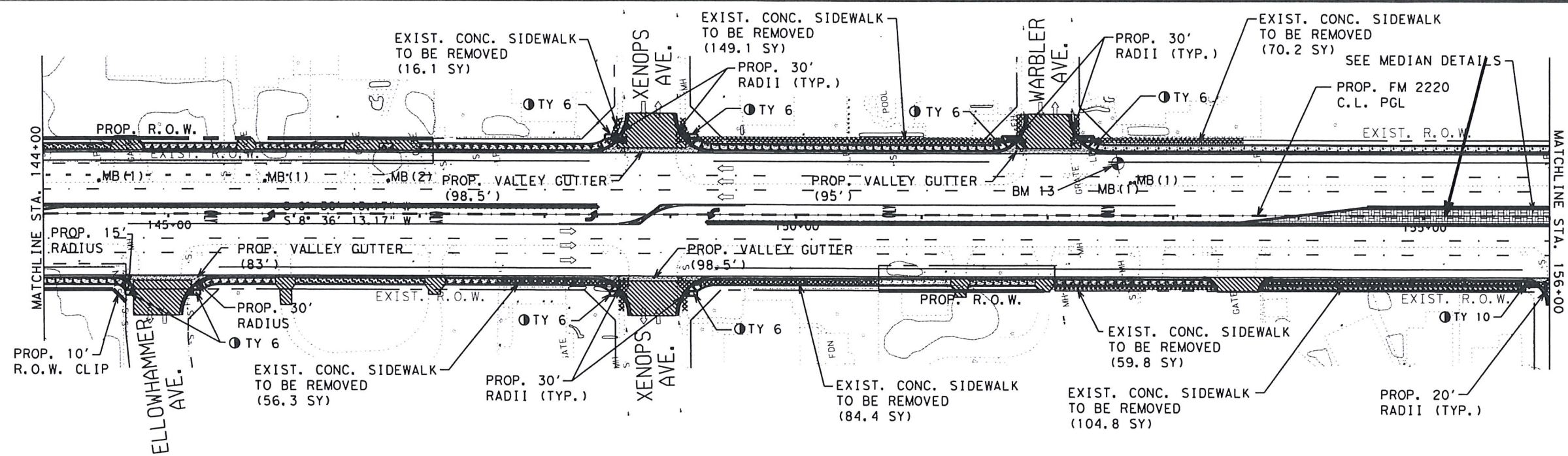
Atidio R. Garza
03/30/2018

PLAN 1" = 100'
VERT. 1" = 10'

Texas Department of Transportation
**FM 2220
PLAN & PROFILE**

© TxDOT 2014		PROJECT NO.		SHEET NO.	
STP1602(275)MM		SHEET 2 OF 10 SHEET		117	
STATE	DIST.	COUNTY	CONT.	SECT.	JOB
TEXAS	PHR	HIDALGO	2094	01	038 FM 2220

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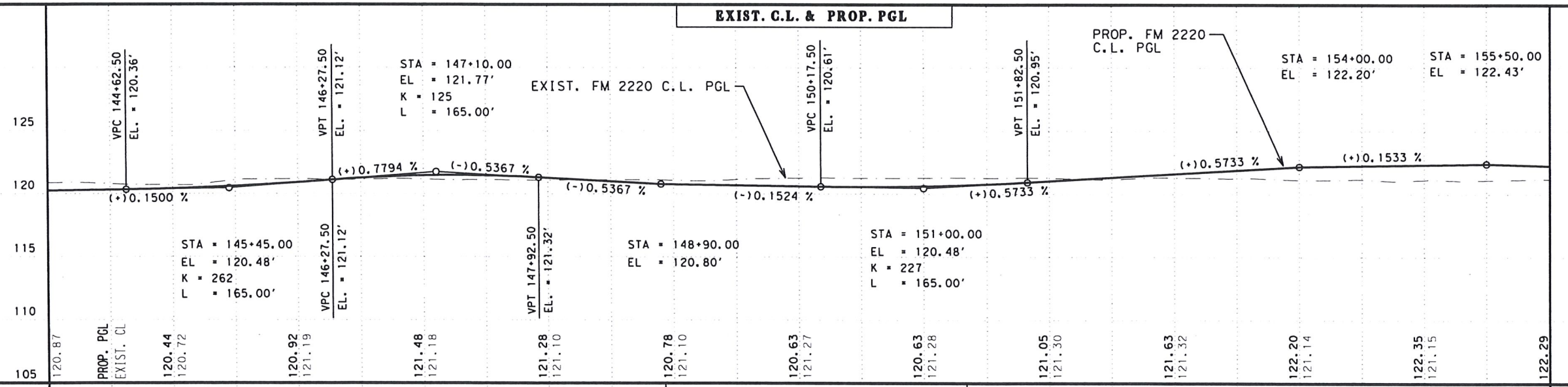
LEGEND:

- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1 1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

SHEET TOTALS			
ITEM	EST.	FIN. UNIT	DESCRIPTION
104	540.7	SY	REMOVE CONC. SIDEWALK
529	2049	LF	CONC. C&G TY "B" (MOUNTABLE)
529	375	LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1026	SY	CONC. SIDEWALK (4")
531	8	EA.	WHEELCHAIR RAMP (TYPE 6)
531	1	EA.	WHEELCHAIR RAMP (TYPE 10)
560	4	EA.	MAILBOXES
560	1	EA.	DOUBLE MAILBOXES



LEGEND:

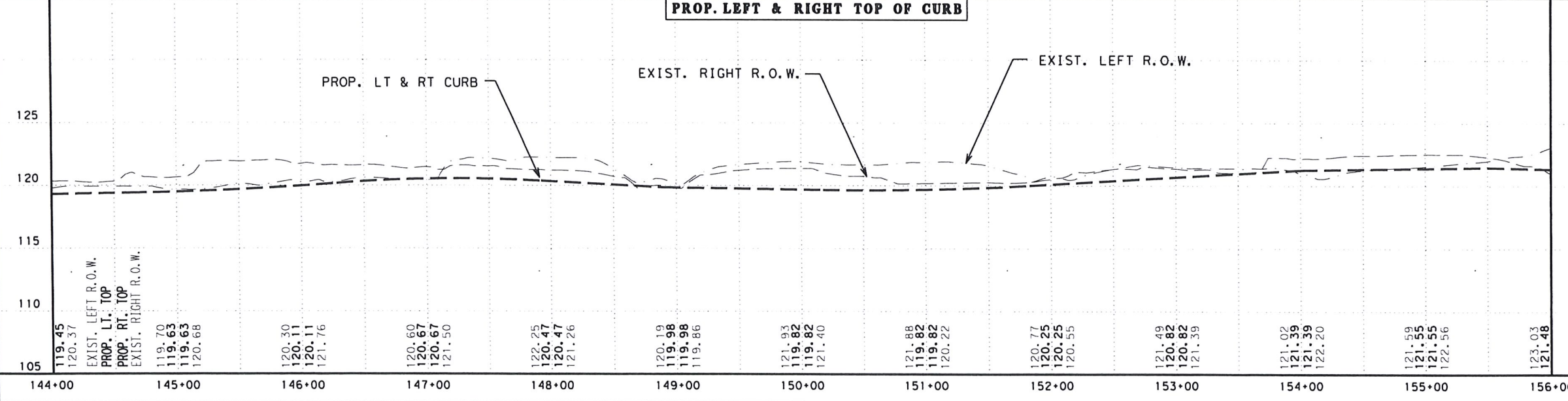
- EXIST. C.L.
- PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018



HORIZ. 1" = 100'
 VERT. 1" = 10'

PLAN 1" = 100'

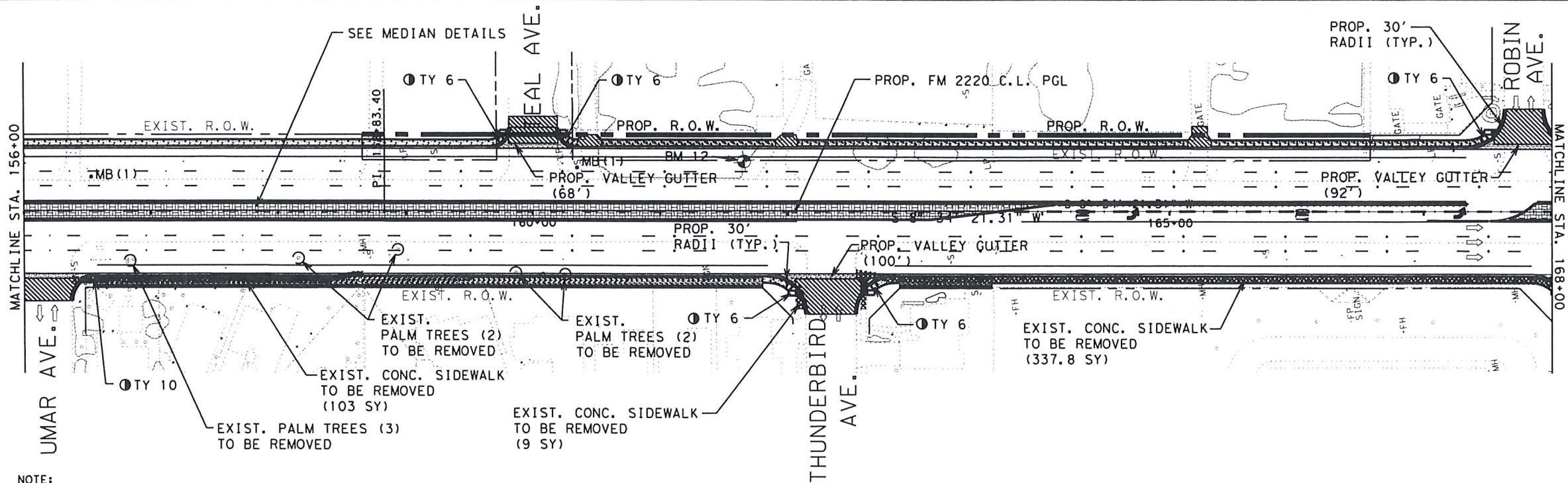
Texas Department of Transportation

**FM 2220
 PLAN & PROFILE**

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PROJECT NO.	STP1602(275)MM	SHEET 3 OF 10 SHEET	SHEET NO.	118											
FED. RD. DIV. NO.	6	STATE	TX	DIST.	PHR	COUNTY	HIDALGO	CONTRACT NO.	2094	SECTION	01	JOB	038	HIGHWAY NO.	FM 2220

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LEGEND:

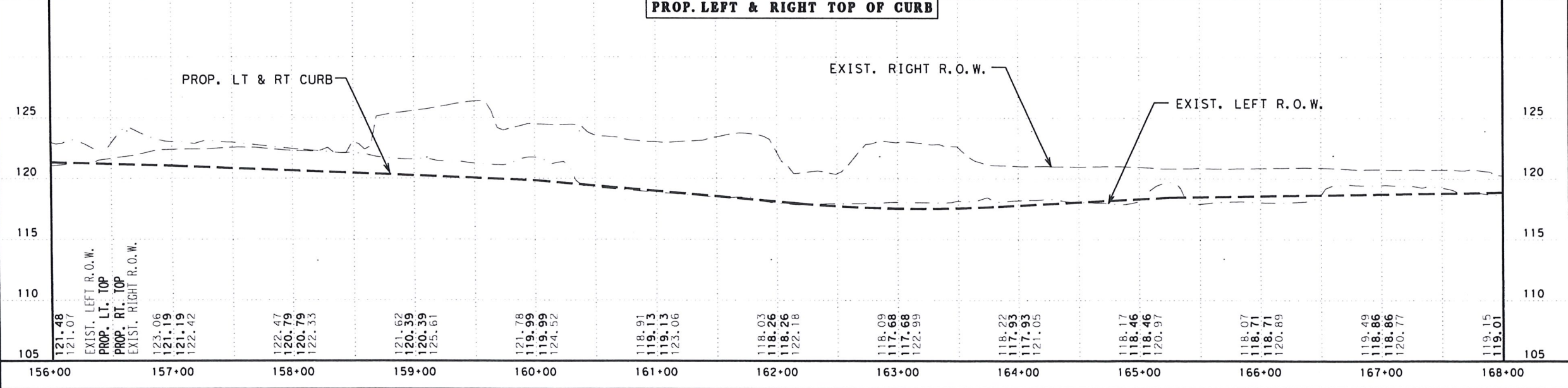
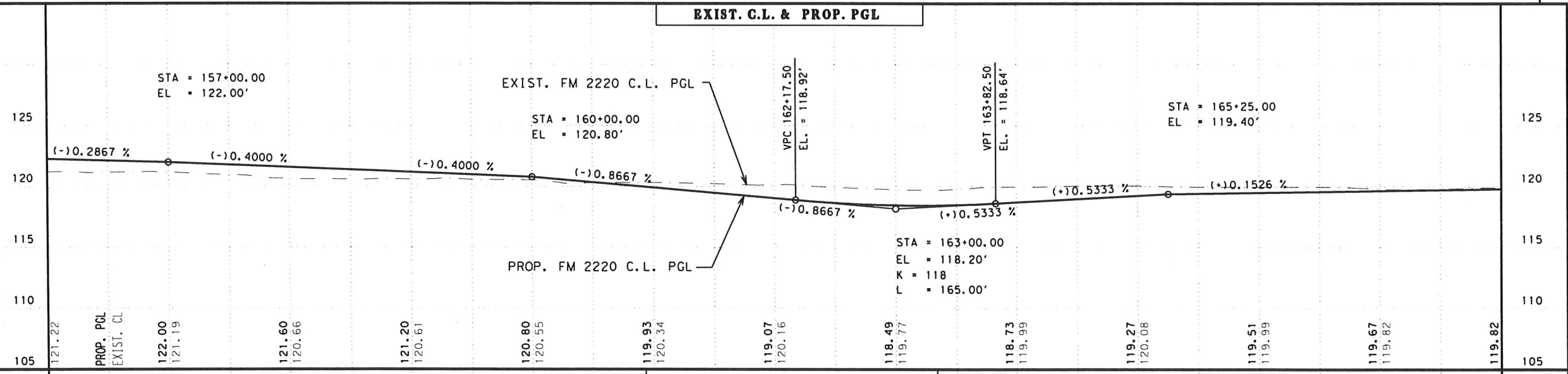
- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

SHEET TOTALS

ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	449.8		SY	REMOVE CONC. SIDEWALK
529	2223		LF	CONC. C&G TY "B" (MOUNTABLE)
529	260		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	887		SY	CONC. SIDEWALK (4")
531	5		EA.	WHEELCHAIR RAMP (TYPE 6)
531	1		EA.	WHEELCHAIR RAMP (TYPE 10)
560	2		EA.	MAILBOXES

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

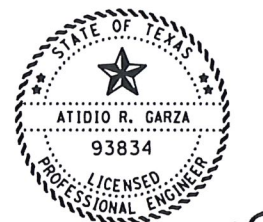


LEGEND:

- EXIST. C.L.
- PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza, P.E.
 03/30/2018

PLAN 1" = 100'
 HORIZ. 1" = 100'
 VERT. 1" = 10'

Texas Department of Transportation

**FM 2220
 PLAN & PROFILE**

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PROJECT NO.	STP1602 (275)MM	SHEET NO.	4 OF 10 SHEET	SHEET NO.	119
FED. RD. DIV. NO.	6	STATE	TEXAS	DIST.	PHR
COUNTY	HIDALGO	CONT. SECT.	2094	JOB	01 038
HIGHWAY NO.	FM 2220				

PI STATION = 174+70.22
 DELTA = 1° 59' 47.29" (LT)
 DEGREE OF CURVE = 0° 42' 58.22"
 TANGENT = 139.40
 LENGTH = 278.77
 RADIUS = 8,000.27
 PC STATION = 173+30.82
 PT STATION = 176+09.59
 e = NC

PI STATION = 171+90.95
 DELTA = 2° 00' 13.04" (RT)
 DEGREE OF CURVE = 0° 42' 58.31"
 TANGENT = 139.89
 LENGTH = 279.76
 RADIUS = 8,000.00
 PC STATION = 170+51.06
 PT STATION = 173+30.82
 e = NC

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

LEGEND:

- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	264.4		SY	REMOVE CONC. SIDEWALK
529	2036		LF	CONC. C&G TY "B" (MOUNTABLE)
529	179		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1192		SY	CONC. SIDEWALK (4")
531	4		EA.	WHEELCHAIR RAMP (TYPE 6)
560	4		EA.	MAILBOXES
560	1		EA.	DOUBLE MAILBOXES
560	1		EA.	MULTIPLE MAILBOXES

LEGEND:

- EXIST. C.L.
- PROP. PGL

- GENERAL NOTES:**
- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 - THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018

PLAN 1" = 100' HORIZ. 1" = 100'
 VERT. 1" = 10'

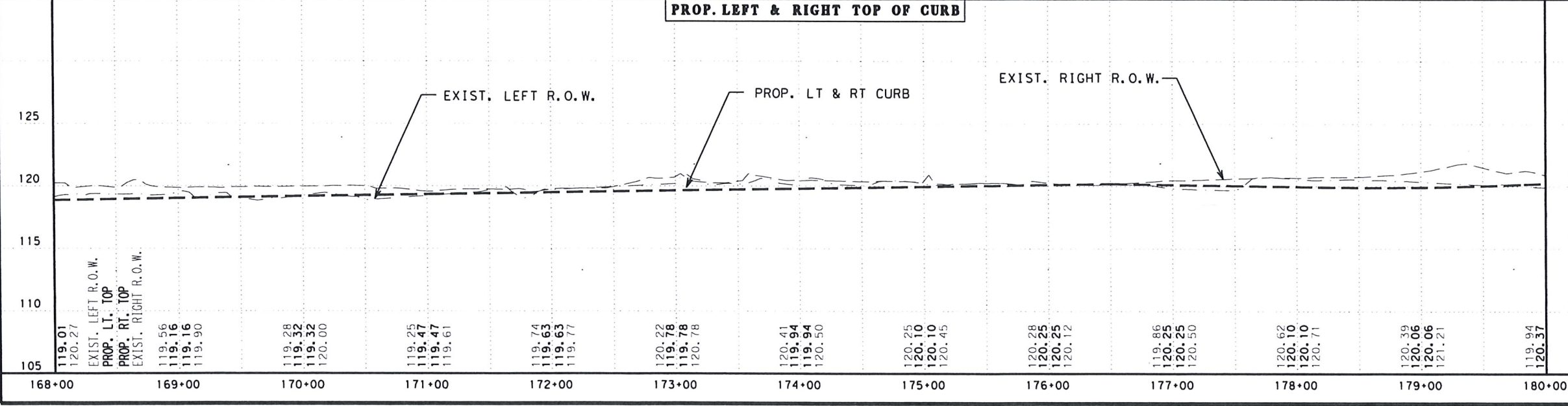
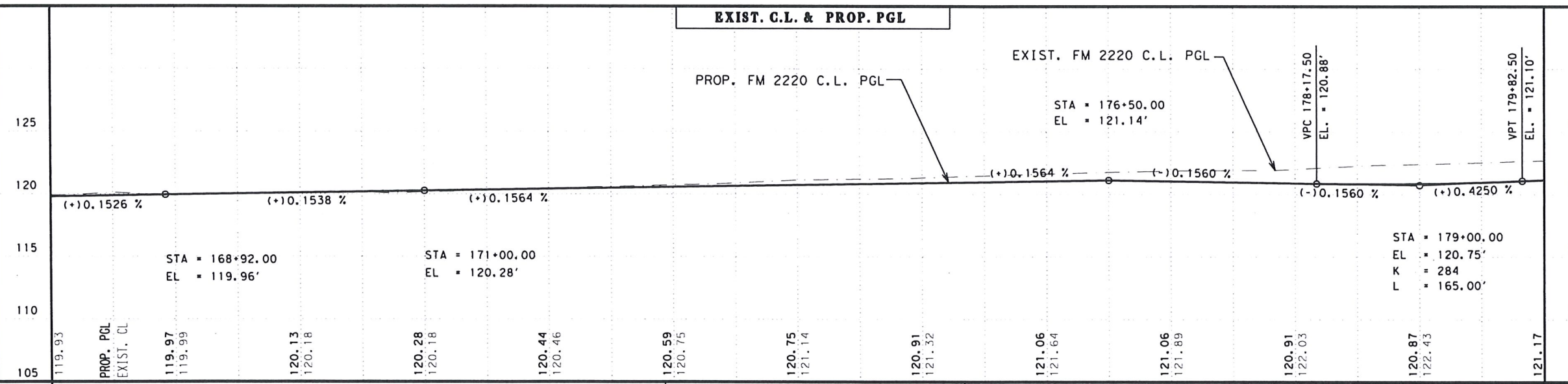
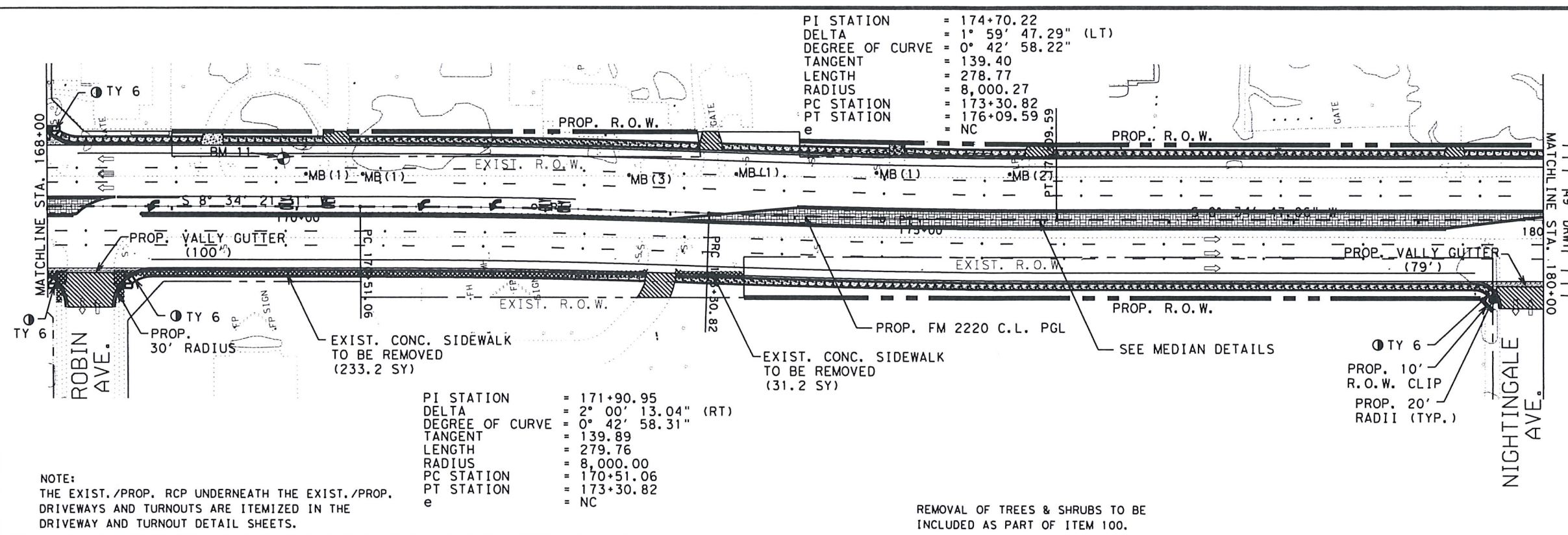
Texas Department of Transportation

**FM 220
 PLAN & PROFILE**

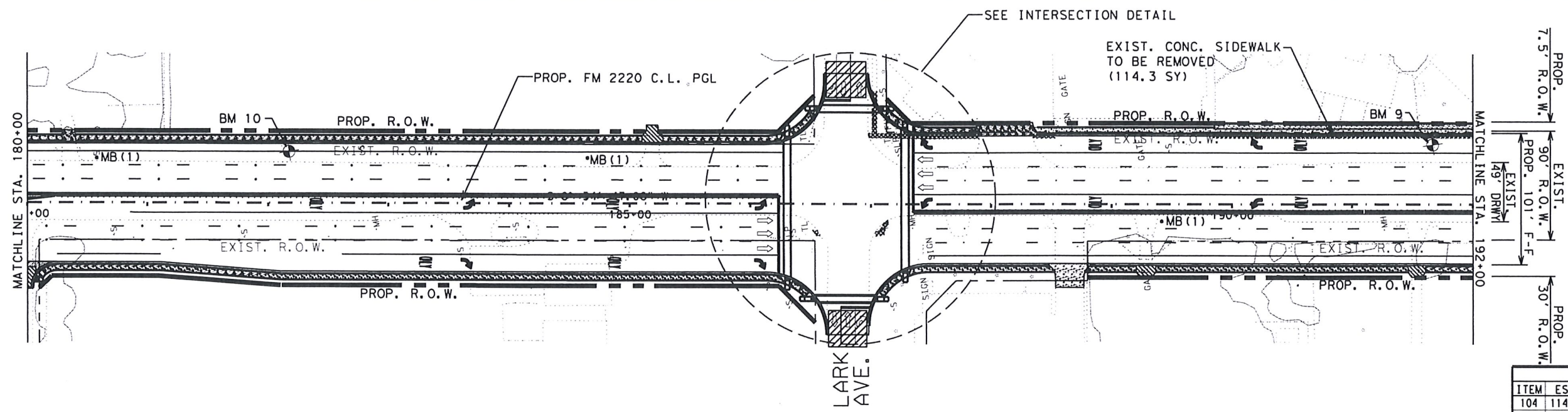
© TxDOT 2014

PROJECT NO.	SHEET NO.					
STP1602(275)MM	SHEET 5 OF 10 SHEET 120					
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT. SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038 FM 2220

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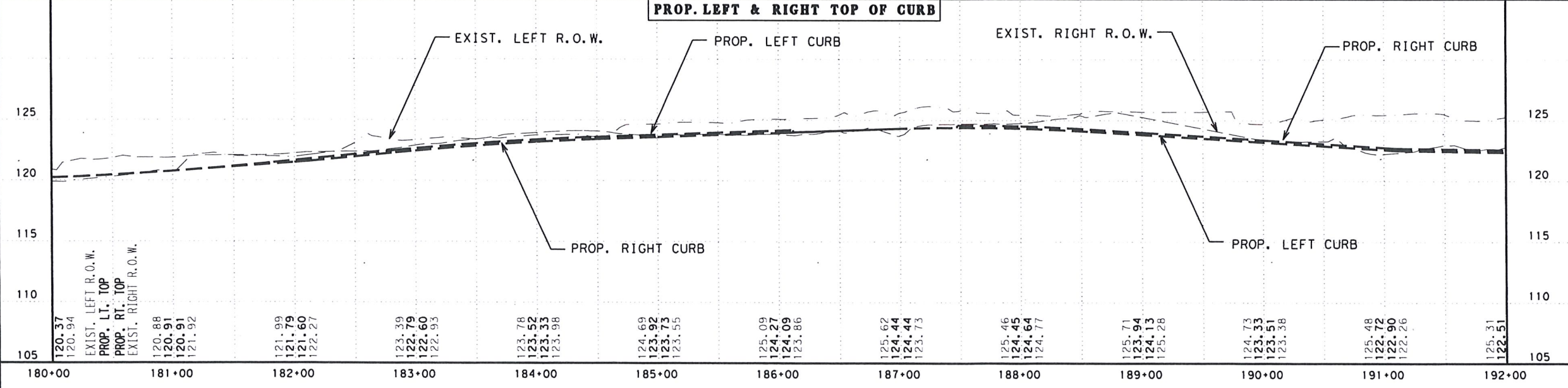
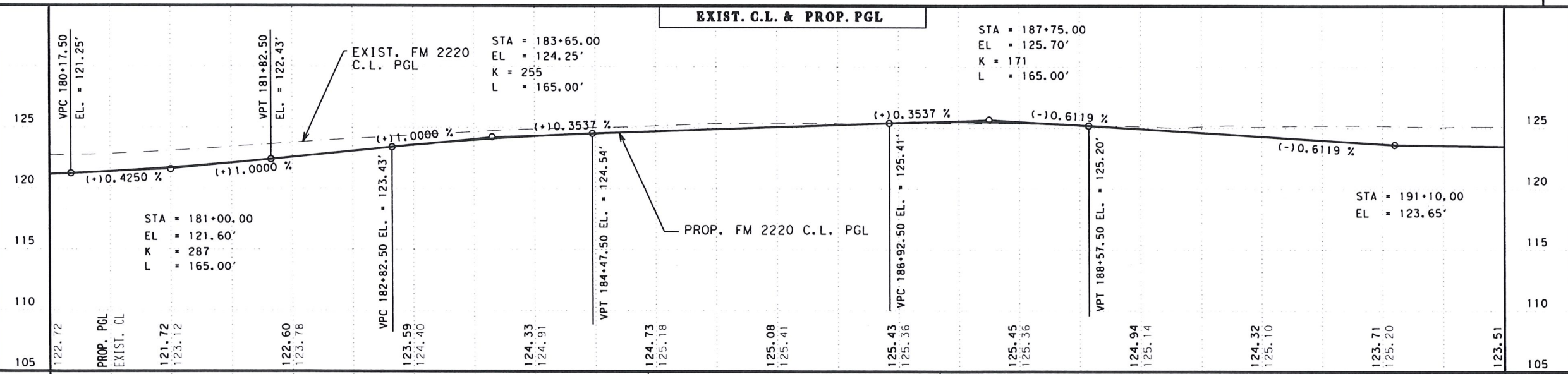
LEGEND:

- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1 1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	114.3		SY	REMOVE CONC. SIDEWALK
529	2213		LF	CONC. C&G TY "B" (MOUNTABLE)
531	1166		SY	CONC. SIDEWALK (4")
560	3		EA.	MAILBOXES

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

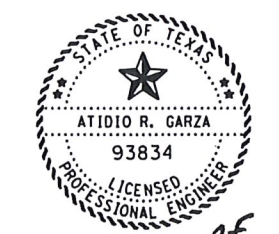
REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.



LEGEND:
 --- EXIST. C.L.
 ——— PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018

PLAN 1" = 100'
 HORIZ. 1" = 100'
 VERT. 1" = 10'



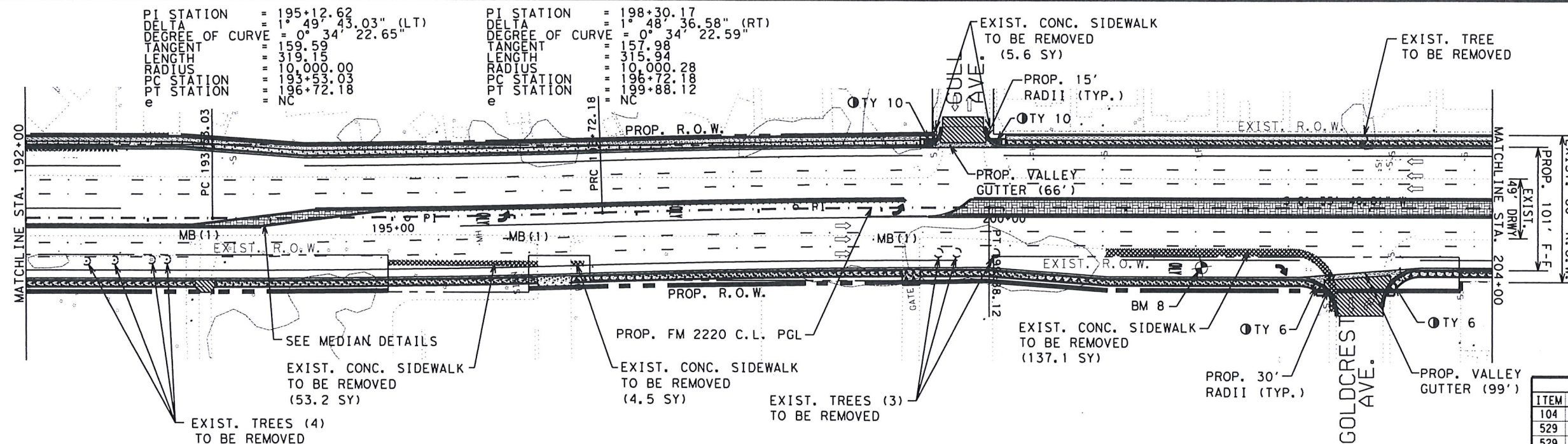
**FM 2220
 PLAN & PROFILE**

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PROJECT NO.	SHEET NO.					
STP1602(275)MM	6 OF 10 SHEET					
FED. RD. DIV. NO.	STATE	DIST.	COUNTY	CONT. SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038 FM 2220

PI STATION = 195+12.62
 DELTA = 1° 49' 43.03" (LT)
 DEGREE OF CURVE = 0° 34' 22.65"
 TANGENT = 159.59
 LENGTH = 319.15
 RADIUS = 10,000.00
 PC STATION = 193+53.03
 PT STATION = 196+72.18

PI STATION = 198+30.17
 DELTA = 1° 48' 36.58" (RT)
 DEGREE OF CURVE = 0° 34' 22.59"
 TANGENT = 157.98
 LENGTH = 315.94
 RADIUS = 10,000.28
 PC STATION = 196+72.18
 PT STATION = 199+88.12



LEGEND:

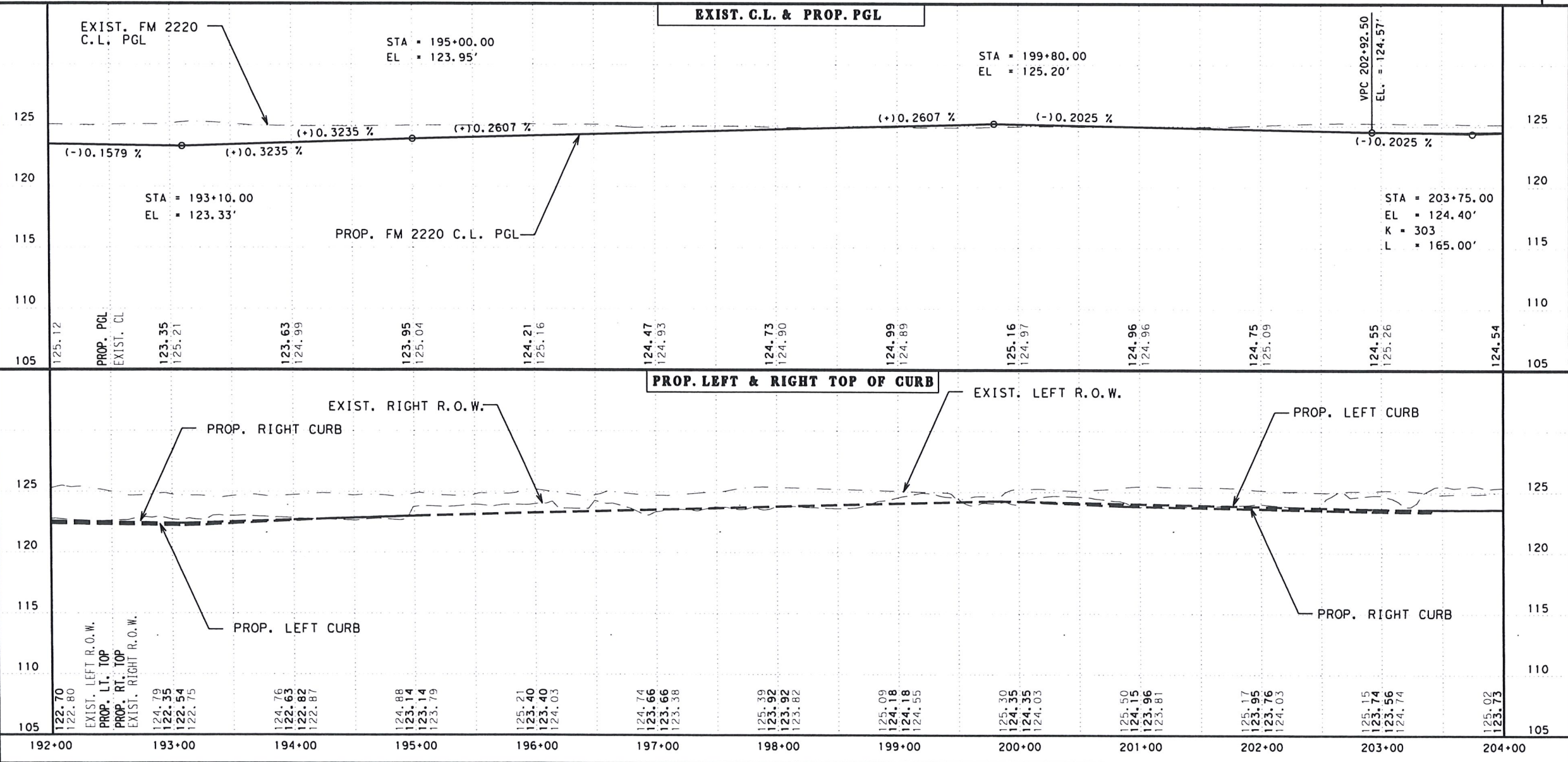
- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1 1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	200.4		SY	REMOVE CONC. SIDEWALK
529	2268		LF	CONC. C&G TY "B" (MOUNTABLE)
529	165		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1089		SY	CONC. SIDEWALK (4")
531	2		EA.	WHEELCHAIR RAMP (TYPE 6)
531	2		EA.	WHEELCHAIR RAMP (TYPE 10)
560	3		EA.	MAILBOXES

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LEGEND:

- EXIST. C.L.
- PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018

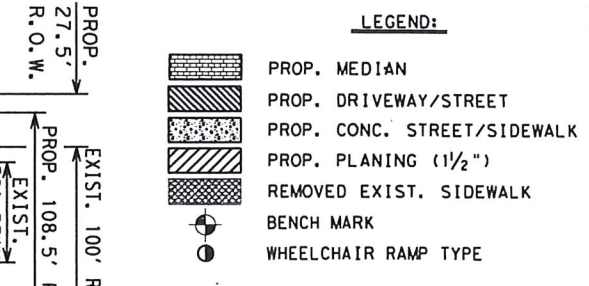
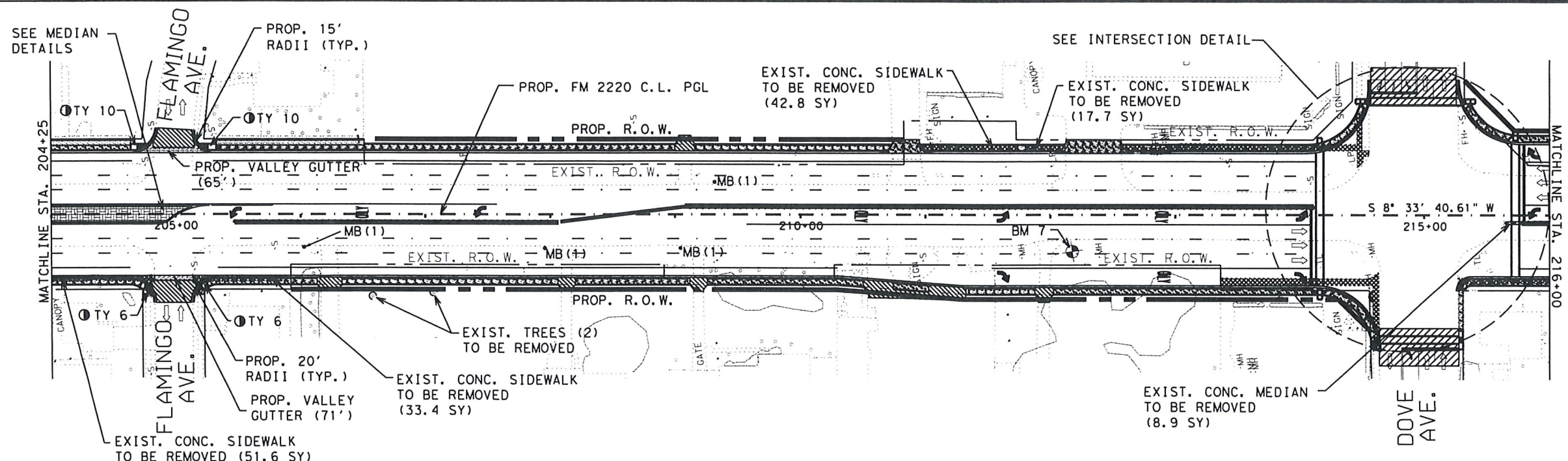
PLAN 1" = 100' HORIZ. 1" = 100'
 VERT. 1" = 10'

Texas Department of Transportation
FM 2220
PLAN & PROFILE

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PROJECT NO.	SHEET NO.						
STP1602(275)MM	SHEET 7 OF 10 SHEET 122						
FED. RD. DIV. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

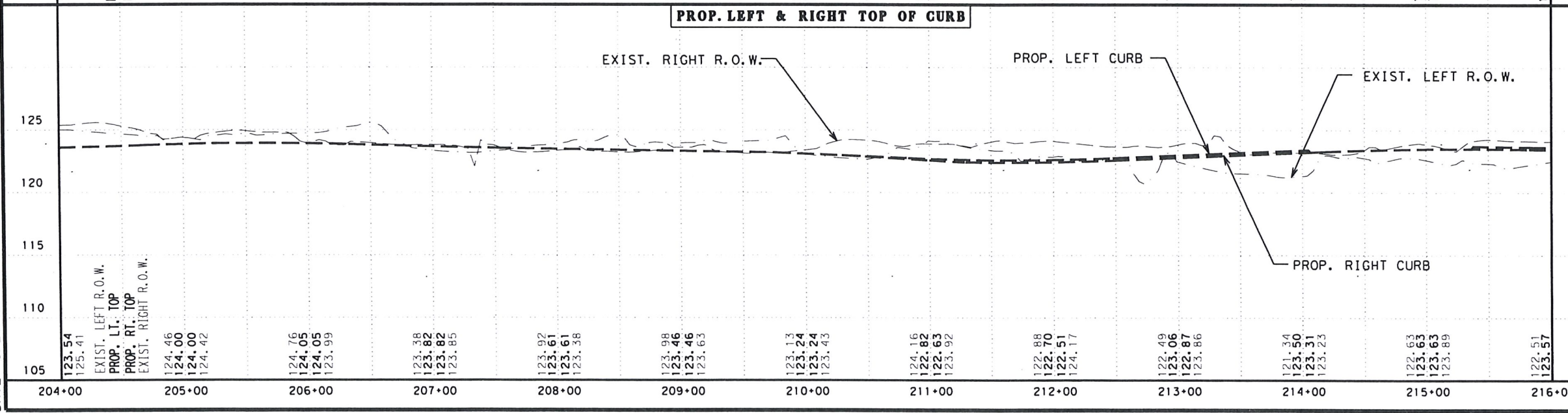
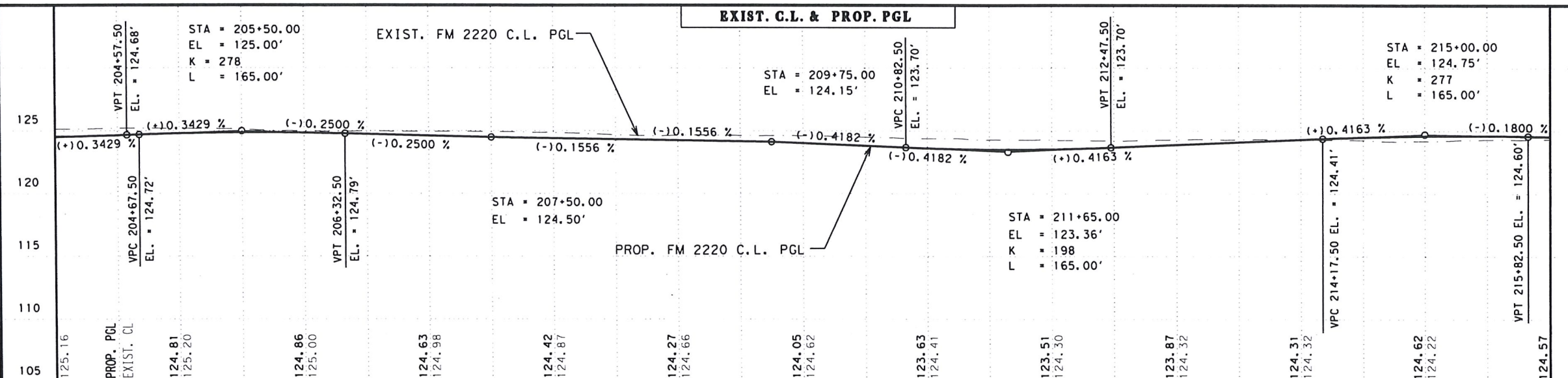
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 DATE: 3/29/2018 4:01:43 PM



SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	8.9		SY	REMOVE CONC. MEDIAN
104	145.5		SY	REMOVE CONC. SIDEWALK
529	1988		LF	CONC. C&G TY "B" (MOUNTABLE)
529	136		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1057		SY	CONC. SIDEWALK (4")
531	2		EA.	WHEELCHAIR RAMP (TYPE 6)
531	2		EA.	WHEELCHAIR RAMP (TYPE 10)
560	4		EA.	MAILBOXES

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.



LEGEND:
 --- EXIST. C.L.
 ——— PROP. PGL

GENERAL NOTES:
 1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018

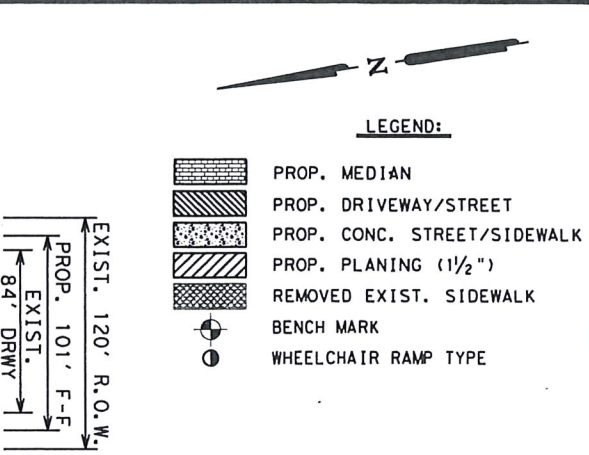
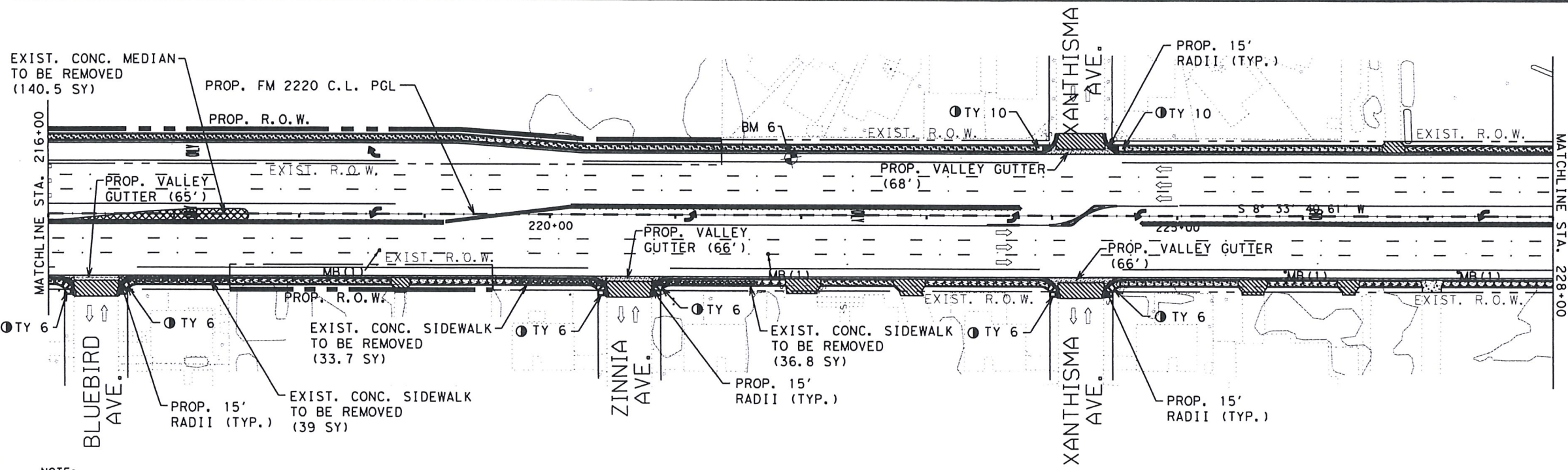
PLAN 1" = 100'
 HORIZ. 1" = 100'
 VERT. 1" = 10'



FM 2220 PLAN & PROFILE

© TxDOT 2014						
PROJECT NO. STP1602(275)MM						SHEET NO. 123
SHEET 8 OF 10 SHEET						
DIV. NO. 6	STATE TEXAS	DIST. PHR	COUNTY HIDALGO	CONT. 2094	SECT. 01	JOB HIGHWAY NO. 038 FM 2220

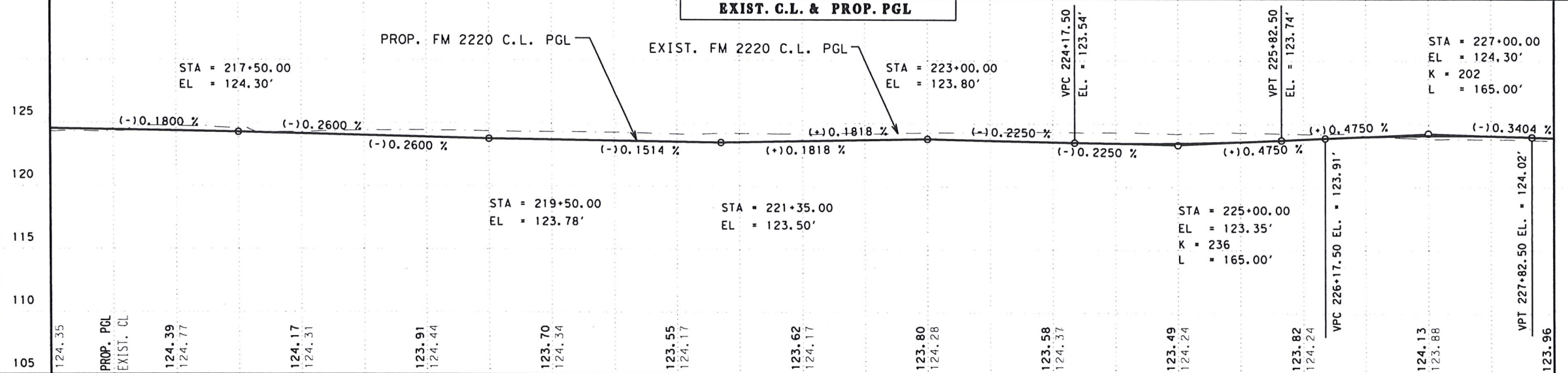
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SHEET TOTALS				
ITEM	EST.	FIN.	UNIT	DESCRIPTION
104	140.5		SY	REMOVE CONC. MEDIAN
104	109.5		SY	REMOVE CONC. SIDEWALK
529	2097		LF	CONC. C&G TY "B" (MOUNTABLE)
529	265		LF	CONC. C&G TY "A" (VALLEY GUTTER)
531	1130		SY	CONC. SIDEWALK (4")
531	6		EA.	WHEELCHAIR RAMP (TYPE 6)
531	2		EA.	WHEELCHAIR RAMP (TYPE 10)
560	4		EA.	MAILBOXES

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

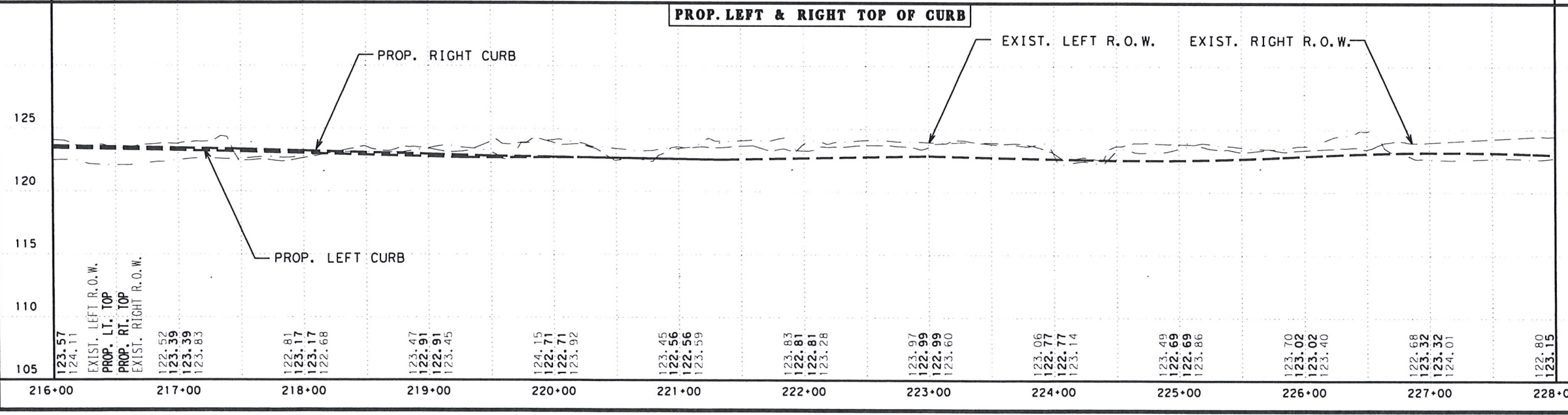


LEGEND:
 --- EXIST. C.L.
 ——— PROP. PGL

GENERAL NOTES:
 1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



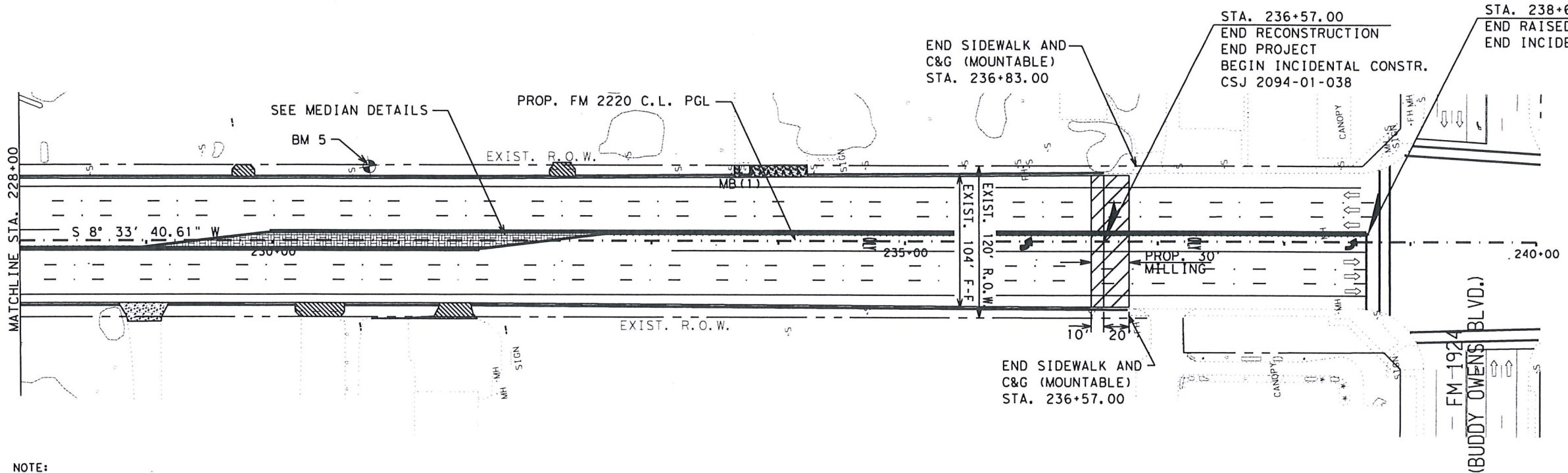
Atidio R. Garza
 03/30/2018



PLAN 1" = 100' HORIZ. 1" = 100'
 VERT. 1" = 10'

Texas Department of Transportation
FM 2220
PLAN & PROFILE

© TxDOT 2014				
PROJECT NO.	SHEET 9 OF 10 SHEET			SHEET NO.
STP1602(275)MM				124
STATE	DIST.	COUNTY	CONT. SECT.	JOB HIGHWAY NO.
6 TEXAS	PHR	HIDALGO	2094 01	038 FM 2220



LEGEND:

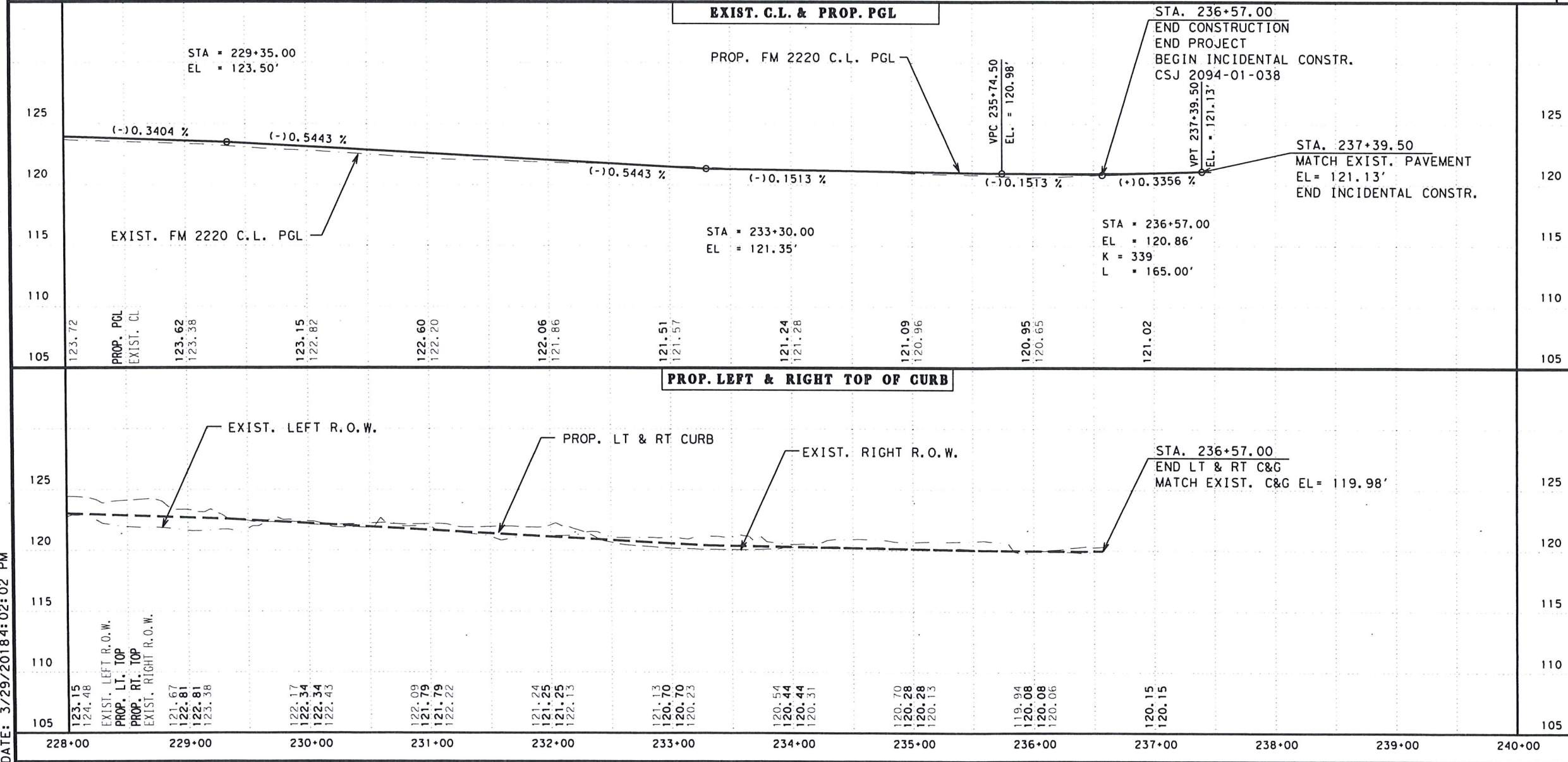
- PROP. MEDIAN
- PROP. DRIVEWAY/STREET
- PROP. CONC. STREET/SIDEWALK
- PROP. PLANING (1 1/2")
- REMOVED EXIST. SIDEWALK
- BENCH MARK
- WHEELCHAIR RAMP TYPE

NOTE:
 THE EXIST./PROP. RCP UNDERNEATH THE EXIST./PROP. DRIVEWAYS AND TURNOUTS ARE ITEMIZED IN THE DRIVEWAY AND TURNOUT DETAIL SHEETS.

REMOVAL OF TREES & SHRUBS TO BE INCLUDED AS PART OF ITEM 100.

SHEET TOTALS					
ITEM	EST.	FIN.	UNIT	DESCRIPTION	
354	336.7		SY	PLANING ASPH. (1 1/2")	
529	1525		LF	CONC. C&G TY "B" (MOUNTABLE)	
531	870		SY	CONC. SIDEWALK (4")	
560	1		EA.	MAILBOXES	

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 DATE: 3/29/2018 02:02 PM



LEGEND:

- EXIST. C.L.
- PROP. PGL

GENERAL NOTES:

- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



Atidio R. Garza
 03/30/2018

PLAN 1" = 100' HORIZ. 1" = 100'
 VERT. 1" = 10'



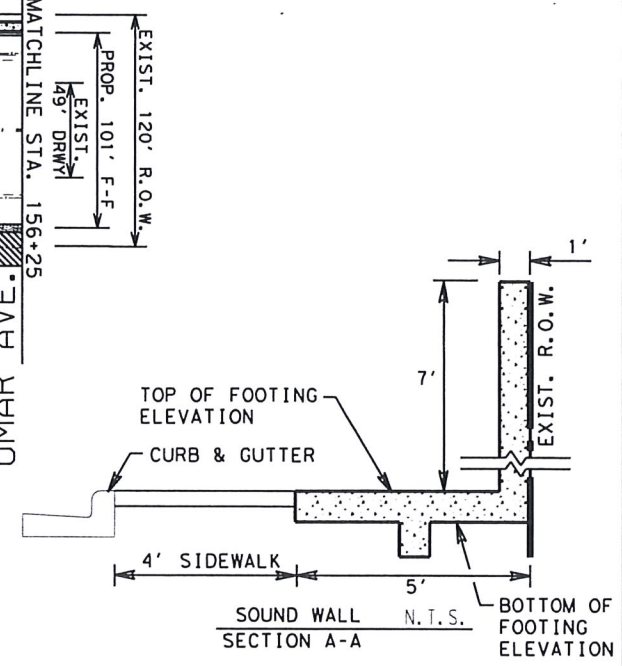
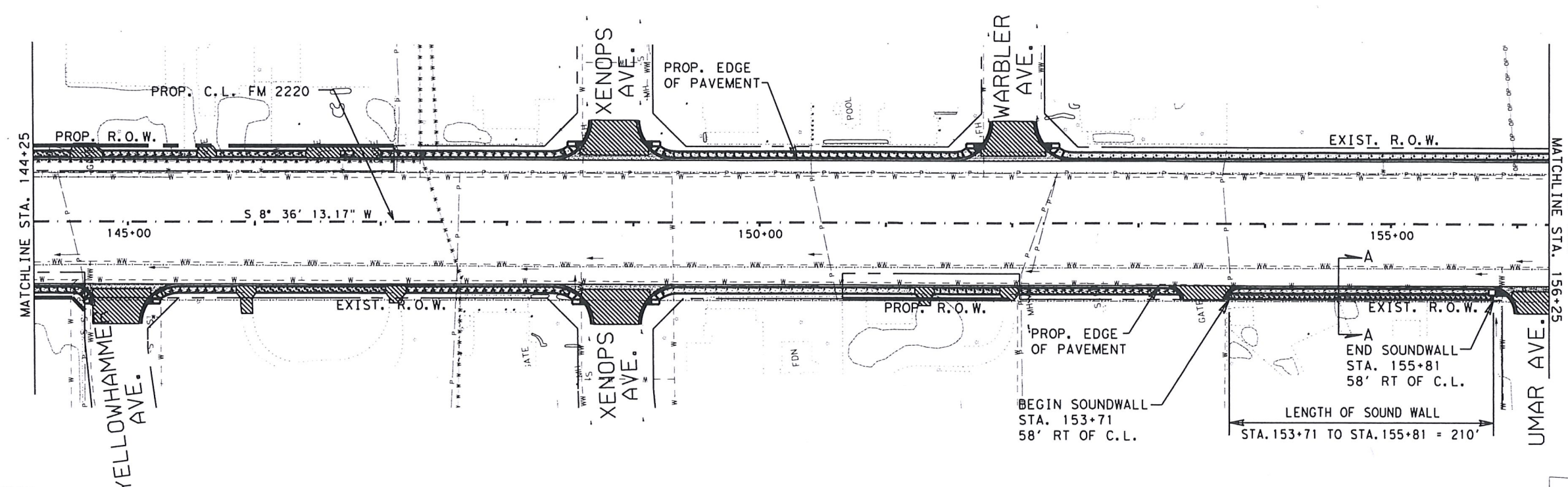
FM 2220 PLAN & PROFILE

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PROJECT NO.	STP1602(275)MM				SHEET	10 OF 10 SHEET	SHEET NO.	125			
DIST.	PHR	COUNTY	HIDALGO	CONTRACT	2094	SECTION	01	JOB	038	HIGHWAY NO.	FM 2220

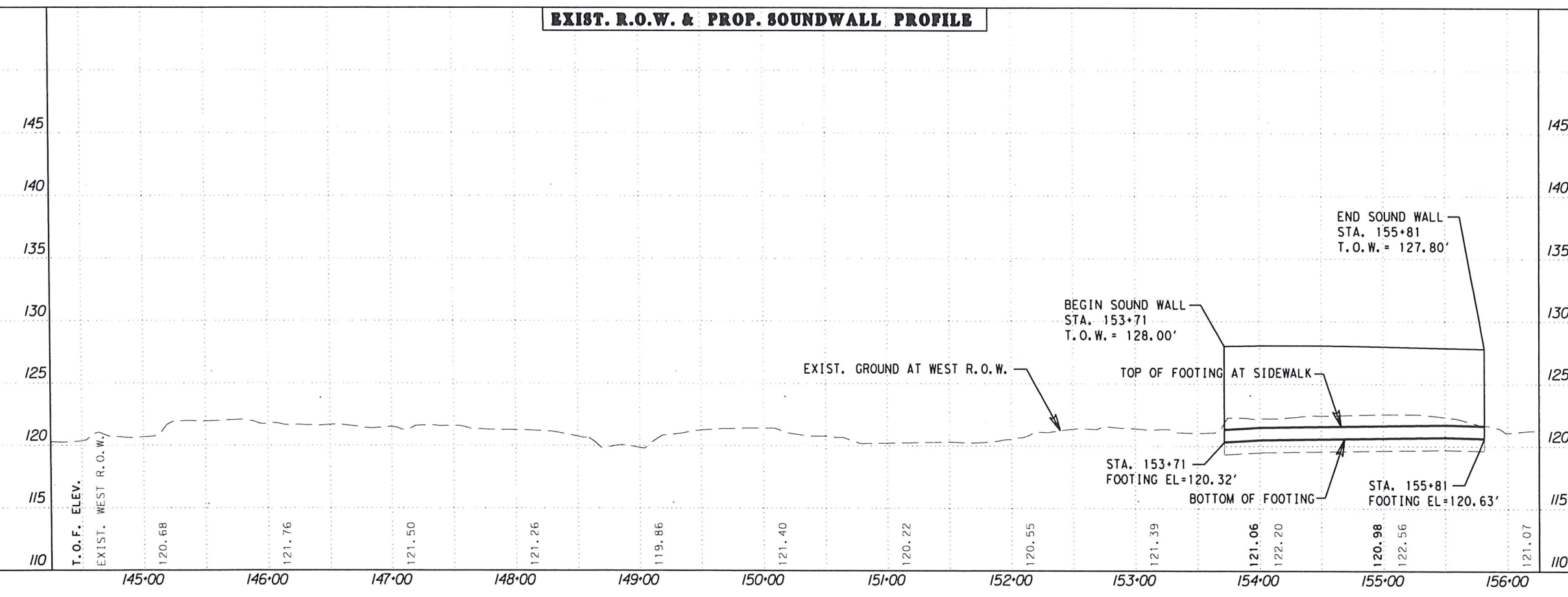


- LEGEND:**
- ★ TO BE REMOVED UNDER ITEM 100 "PREPARATION OF R.O.W."
 - PROP. DRIVEWAY/TURNOUT
 - PROP. CONC. SOUND WALL
 - TEMP. SPECIAL SHORING



NOTE:
THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

EXIST. R.O.W. & PROP. SOUNDWALL PROFILE



Texas Department of Transportation



Atidio R. Garza
ATIDIO R. GARZA
03/30/2018
DATE

- LEGEND:**
- - - EXIST. LT. (EAST) R.O.W. LINE
 - - - EXIST. RT. (WEST) R.O.W. LINE
 - PROP. C.L. PROFILE

**FM 2220
PLAN & PROFILE
SOUND WALL**

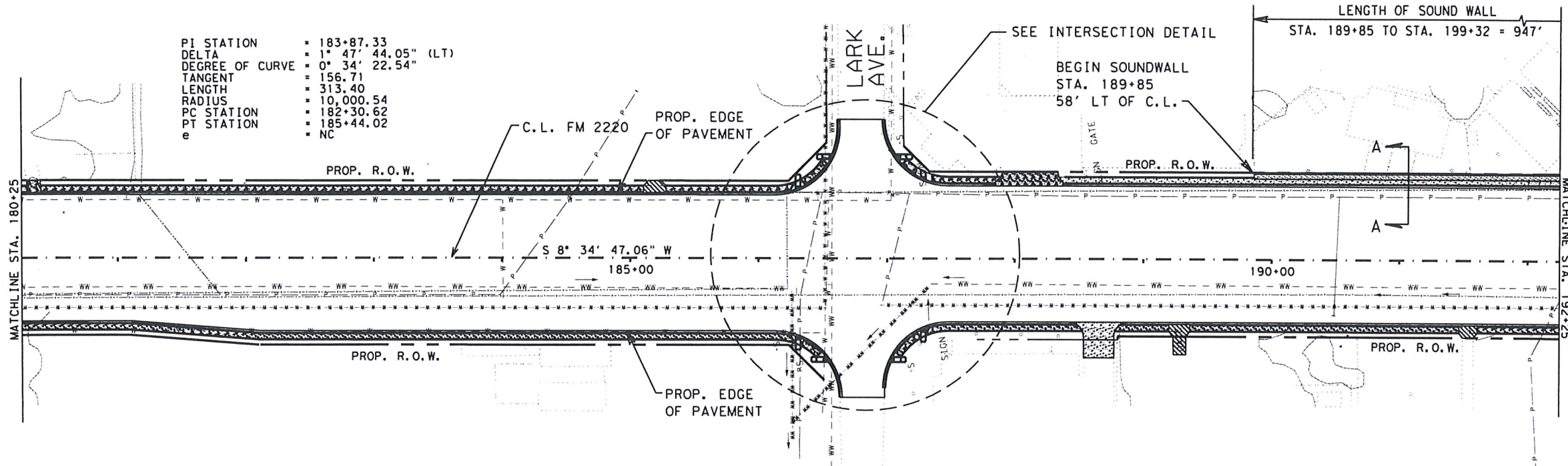
SHEET 1 OF 5 SHEETS

SCALE: HOR.: 1:100, VERT.: 1:10 © 2014 TxDOT

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP1602(275)MM		135
STATE	DIST.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

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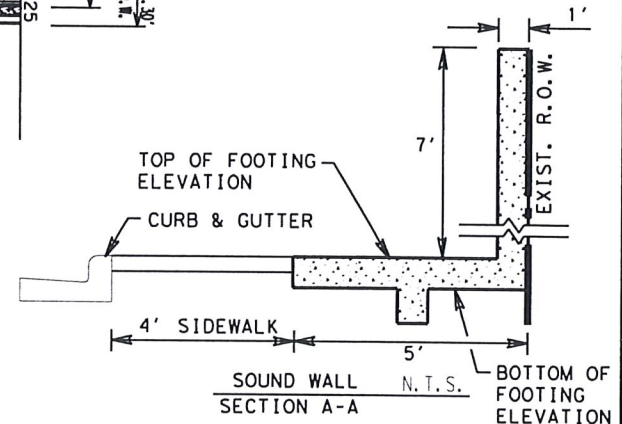
PI STATION = 183+87.33
 DELTA = 1° 47' 44.05" (LT)
 DEGREE OF CURVE = 0° 34' 22.54"
 TANGENT = 156.71
 LENGTH = 313.40
 RADIUS = 10,000.54
 PC STATION = 182+30.62
 PT STATION = 185+44.02
 e = NC



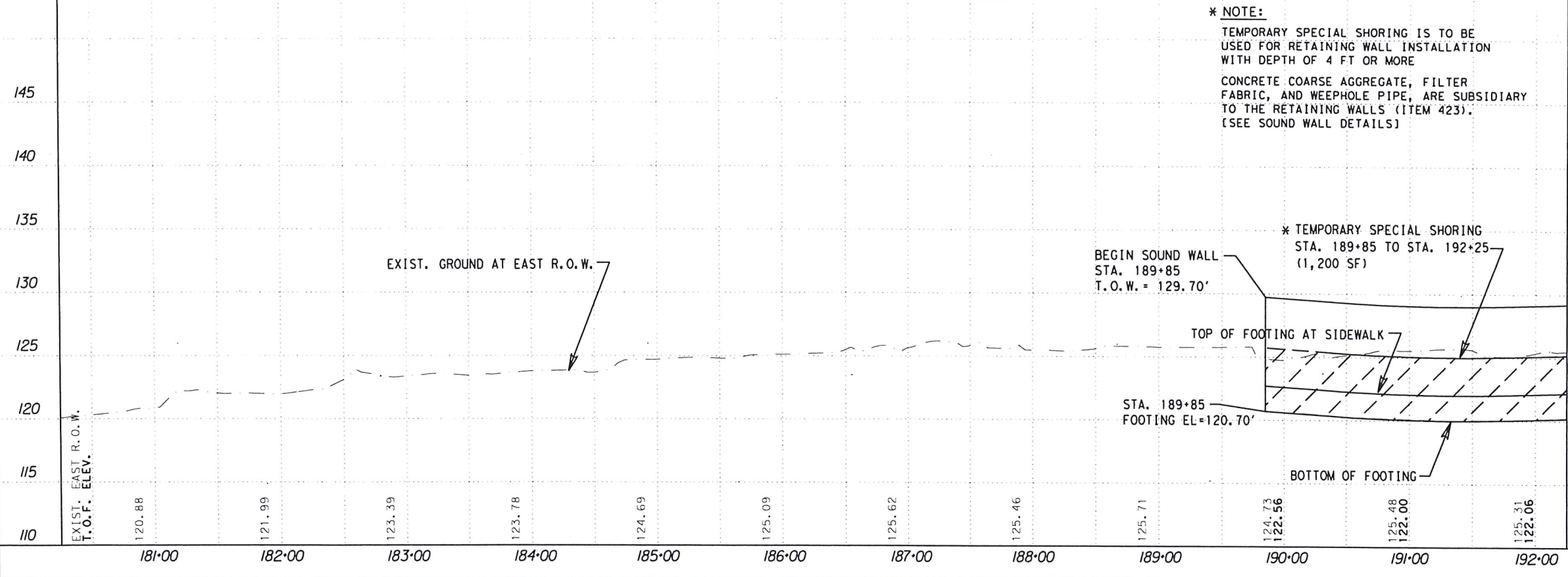
LEGEND:

- ★ TO BE REMOVED UNDER ITEM 100 "PREPARATION OF R.O.W."
- PROP. DRIVEWAY/TURNOUT
- PROP. CONC. SOUND WALL
- TEMP. SPECIAL SHORING

NOTE:
THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.



EXIST. R.O.W. & PROP. SOUNDWALL PROFILE



*** NOTE:**
TEMPORARY SPECIAL SHORING IS TO BE USED FOR RETAINING WALL INSTALLATION WITH DEPTH OF 4 FT OR MORE
CONCRETE COARSE AGGREGATE, FILTER FABRIC, AND WEEPHOLE PIPE, ARE SUBSIDIARY TO THE RETAINING WALLS (ITEM 423). [SEE SOUND WALL DETAILS]

Texas Department of Transportation



ATIDIO R. GARZA
 03/30/2018
 DATE

LEGEND:

- EXIST. LT. (EAST) R.O.W. LINE
- EXIST. RT. (WEST) R.O.W. LINE
- PROP. C.L. PROFILE

**FM 2220
PLAN & PROFILE
SOUND WALL**

SHEET 3 OF 5 SHEETS

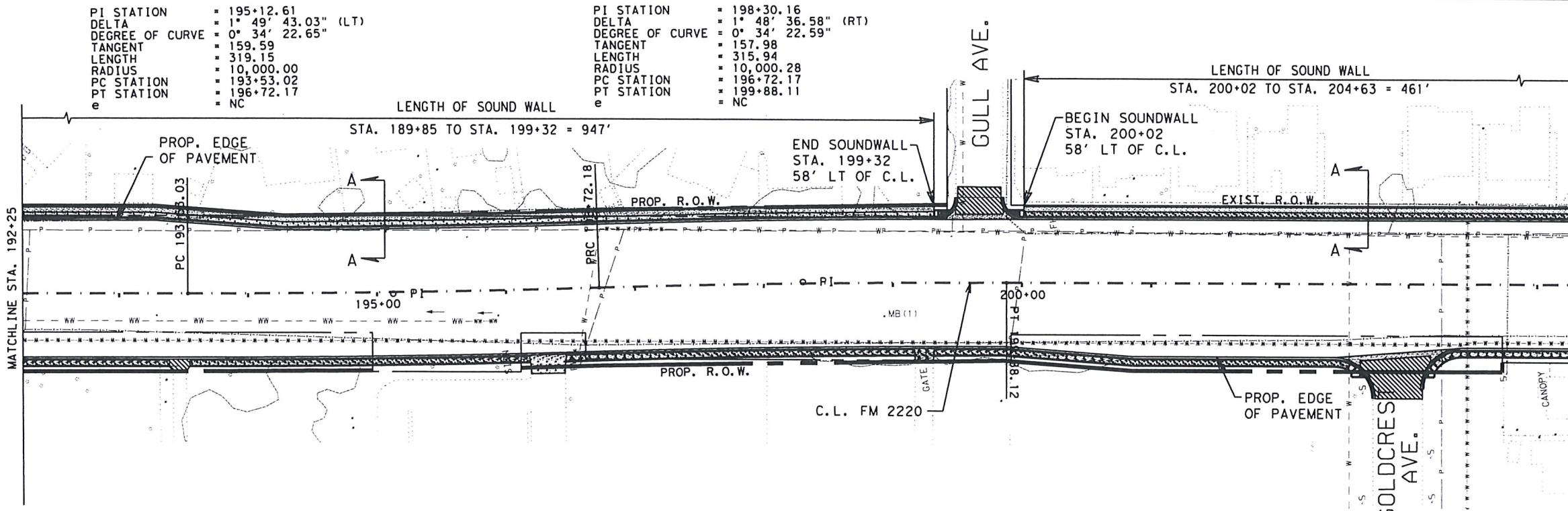
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FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	STP1602 (275)MM	137	
STATE	DIST.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

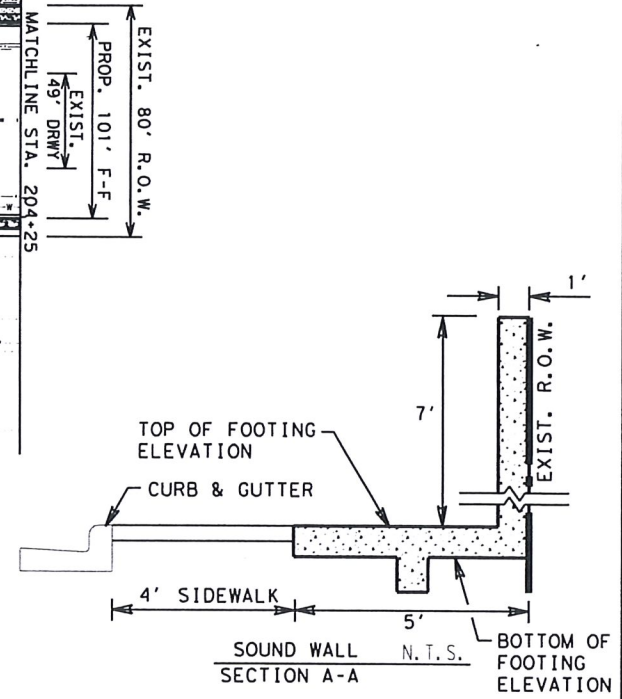
FILE: c:\vroad\paw_civil\mex\road\sumarc. h\m\jason\0129192\FM2220_SW3.dgn
 DATE: 3/29/2018 4:24:31 PM

PI STATION = 195+12.61
 DELTA = 1° 49' 43.03" (LT)
 DEGREE OF CURVE = 0° 34' 22.65"
 TANGENT = 159.59
 LENGTH = 319.15
 RADIUS = 10,000.00
 PC STATION = 193+53.02
 PT STATION = 196+72.17
 e = NC

PI STATION = 198+30.16
 DELTA = 1° 48' 36.58" (RT)
 DEGREE OF CURVE = 0° 34' 22.59"
 TANGENT = 157.98
 LENGTH = 315.94
 RADIUS = 10,000.28
 PC STATION = 196+72.17
 PT STATION = 199+88.11
 e = NC

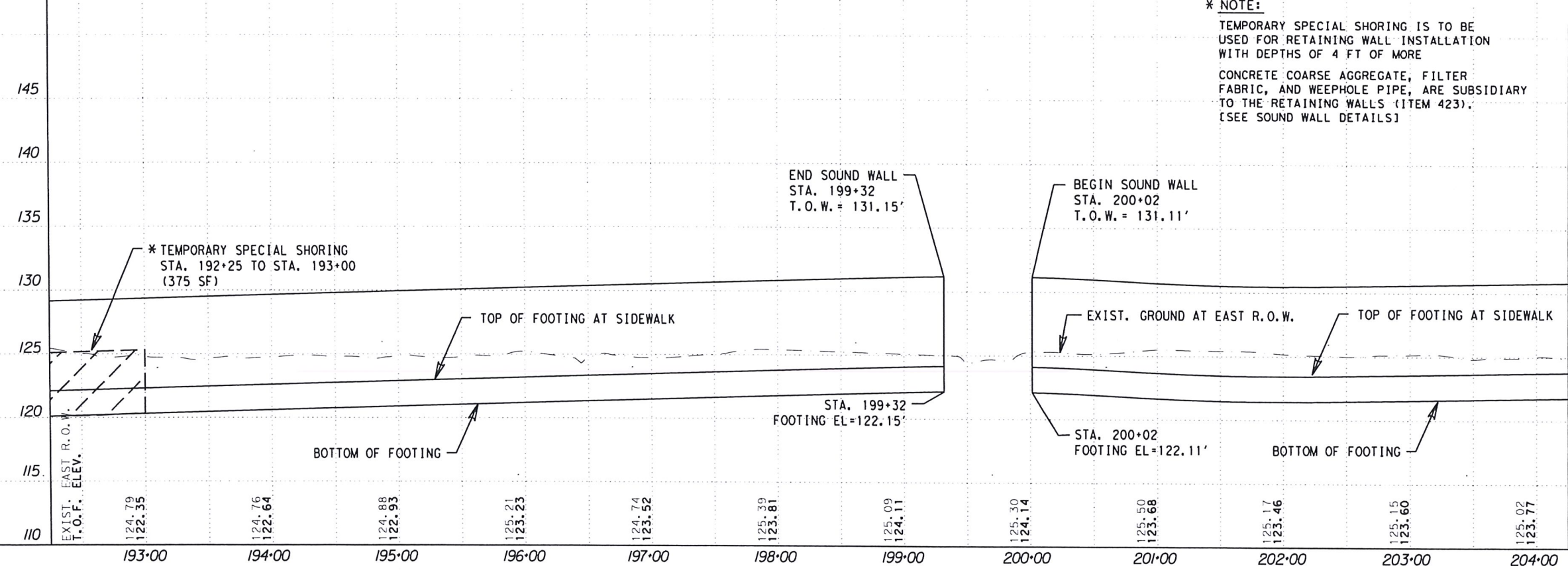


LEGEND:
 * TO BE REMOVED UNDER ITEM 100 "PREPARATION OF R.O.W."
 [Hatched Box] PROP. DRIVEWAY/TURNOUT
 [Dotted Box] PROP. CONC. SOUND WALL
 [Diagonal Lines] TEMP. SPECIAL SHORING



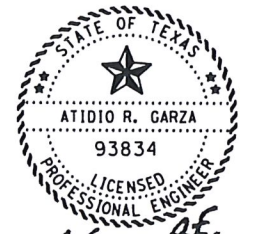
NOTE:
 THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

EXIST. R.O.W. & PROP. SOUNDWALL PROFILE



*** NOTE:**
 TEMPORARY SPECIAL SHORING IS TO BE USED FOR RETAINING WALL INSTALLATION WITH DEPTHS OF 4 FT OF MORE
 CONCRETE COARSE AGGREGATE, FILTER FABRIC, AND WEEPHOLE PIPE, ARE SUBSIDIARY TO THE RETAINING WALLS (ITEM 423). [SEE SOUND WALL DETAILS]

Texas Department of Transportation



ATADIO R. GARZA
 03/30/2018
 DATE

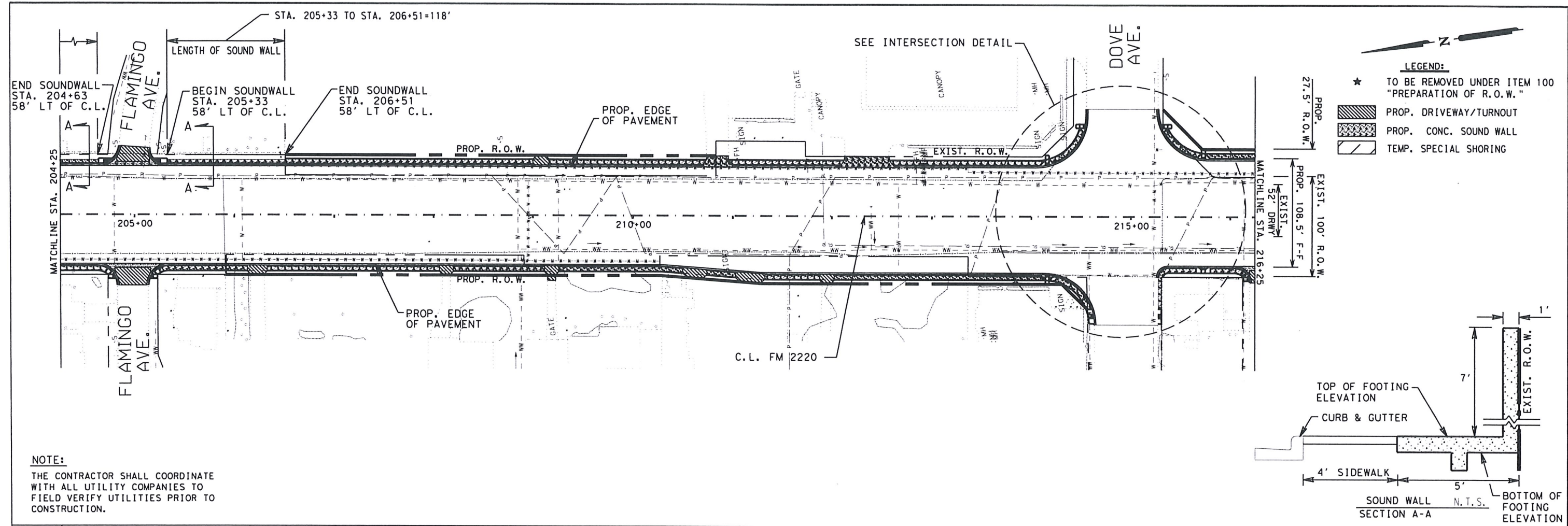
LEGEND:
 --- EXIST. LT. (EAST) R.O.W. LINE
 - - - EXIST. RT. (WEST) R.O.W. LINE
 ——— PROP. C.L. PROFILE

**FM 2220
 PLAN & PROFILE
 SOUND WALL**

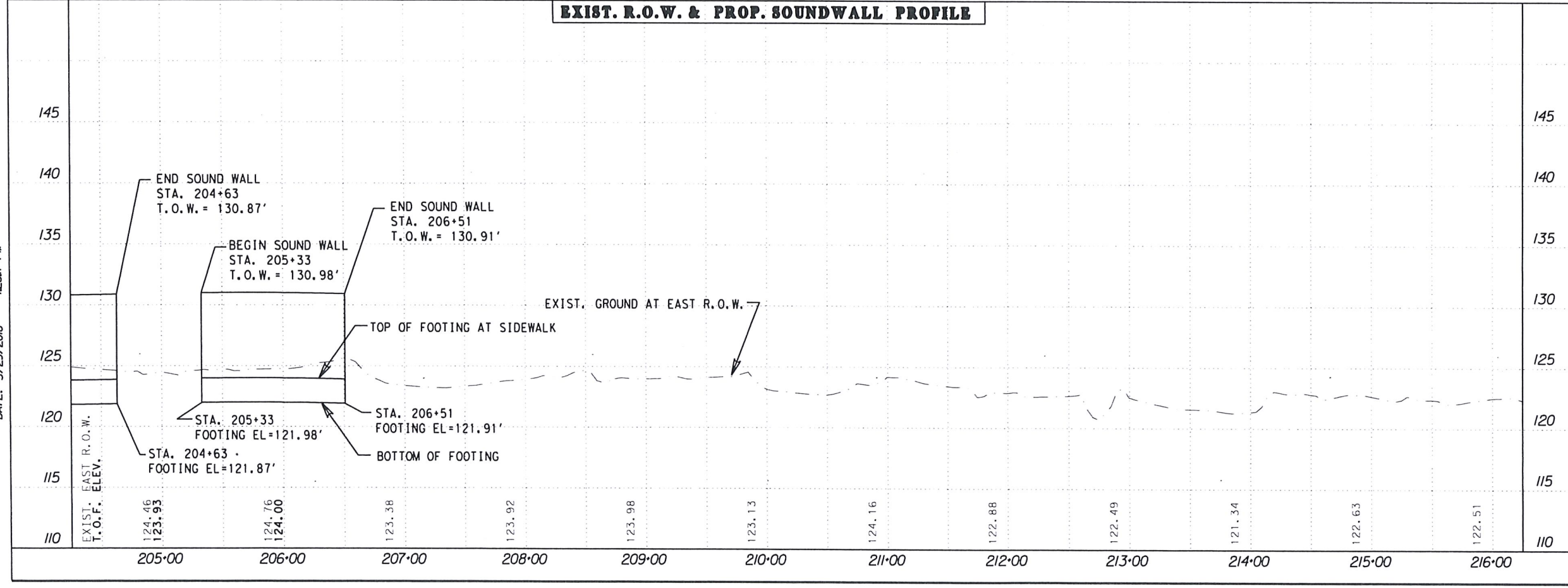
SHEET 4 OF 5 SHEETS
 SCALE: HOR.: 1:100, VERT.: 1:10 © 2014 TxDOT

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.	
6	STP1602(275)MM	138	
STATE	DIST.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

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EXIST. R.O.W. & PROP. SOUNDWALL PROFILE



Texas Department of Transportation



Atidio R. Garza
DATE: 03/30/2018

LEGEND:

- - - EXIST. LT. (EAST) R.O.W. LINE
- - - EXIST. RT. (WEST) R.O.W. LINE
- PROP. C.L. PROFILE

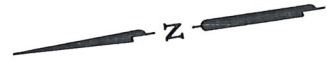
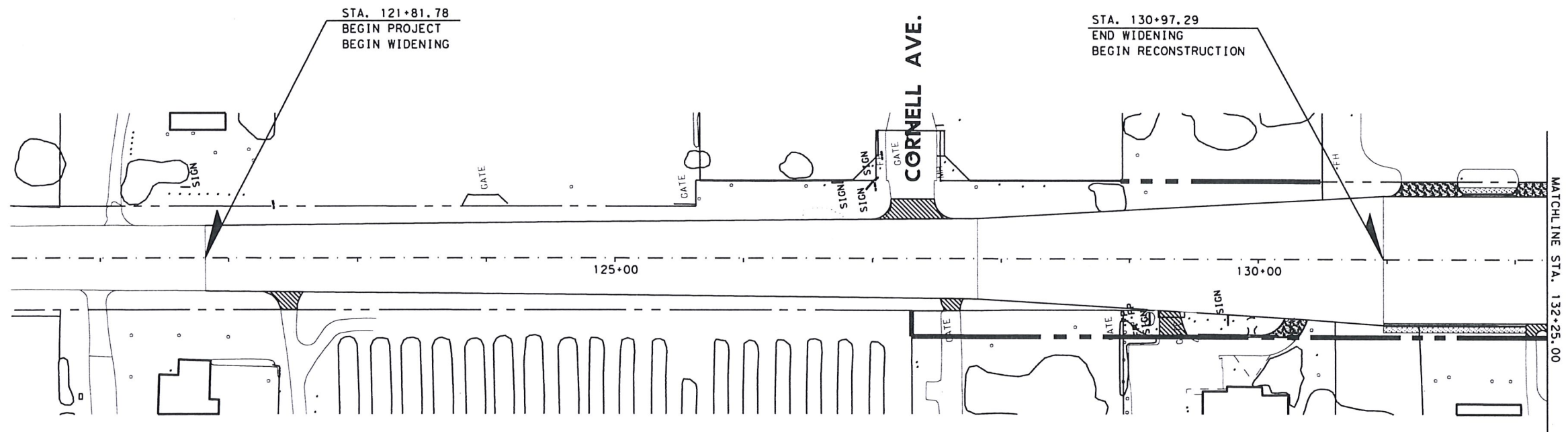
**FM 2220
PLAN & PROFILE
SOUND WALL**

SHEET 5 OF 5 SHEETS

SCALE: HOR.: 1:100, VERT.: 1:10 © 2014 TxDOT

FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.
6	STP1602 (275)MM		139
STATE	DIST.	COUNTY	
TEXAS	PHR	HIDALGO	
CONT.	SECT.	JOB	HIGHWAY NO.
2094	01	038	FM 2220

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DATE: 3/29/2018 4:26:57 PM



THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
 P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
 TELEPHONE (512) 305-9000. HAS JURISDICTION
 OVER COMPLAINTS REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
 STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

NO LANDSCAPE OR PAVERS ON THIS SHEET

ITEM 192 PLANTING PLAN
 FM 2220
 ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	
ESPERANZA	TECOMA STANS	
FIRE CRACKER PLANT	RUSSELLIA EUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF GENZO	COMPACTA' LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	

FM 2220
 ESTIMATED SHEET TOTALS ITEM 160
 TOP SOIL

SITE LOCATION	QTY.	EST. CU/YD.
		EST. TOTAL

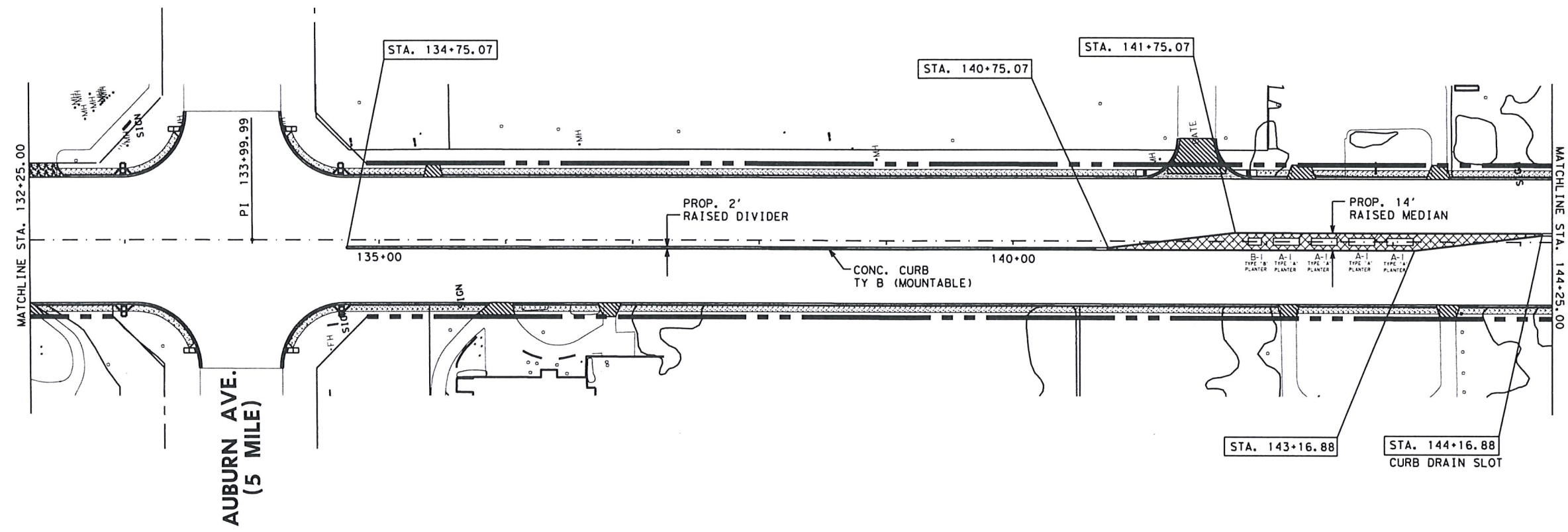
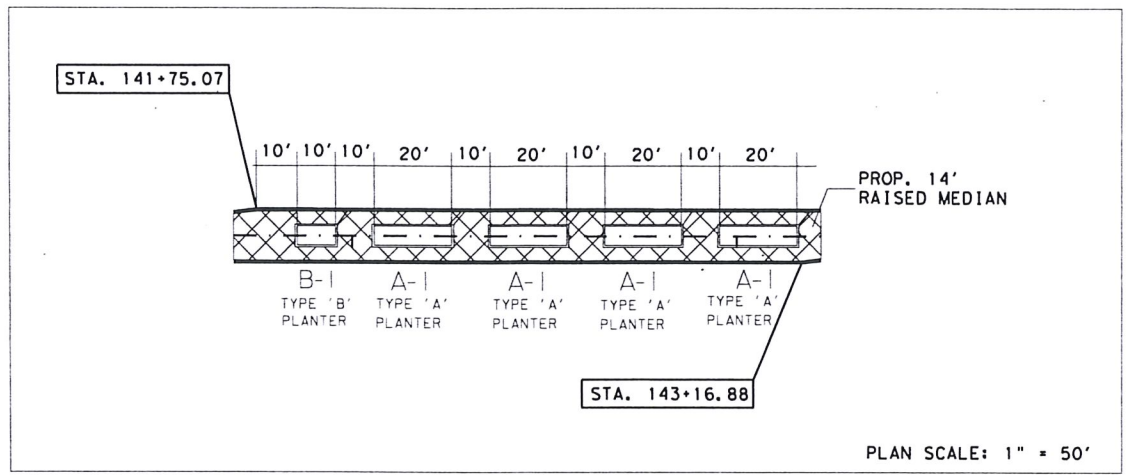
FM 2220
 ESTIMATED SHEET TOTALS ITEM 528
 PAVERS

SITE LOCATION	QTY.	EST. SQ/YD.
		EST. TOTAL



© 2013
 TEXAS DEPARTMENT OF TRANSPORTATION
FM 2220
LANDSCAPE LAYOUT

SHEET 1 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.		SHEET NO.		DATE	
6	STP1602(275)MM		146		24 Feb. 2017	
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

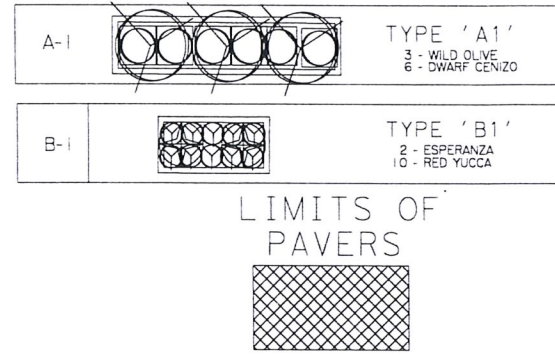


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 OVER COMPLAINTS REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

Stephen P. Walker
 STEPHEN P. WALKER L.A. 24 Feb. 2017
 DATE

ITEM 192 PLANTING PLAN
 FM 2220
 ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDIFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	12
ESPERANZA	TECOMA STANS	2
FIRE CRACKER PLANT	RUSSELLIA EUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	COMPACTA LEUCOPHYLLUM FRUTESCENS	24
RED YUCCA	HESPERALOE PARVIFLORA	10



FM 2220
 ESTIMATED SHEET TOTALS ITEM 160
 TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL 15

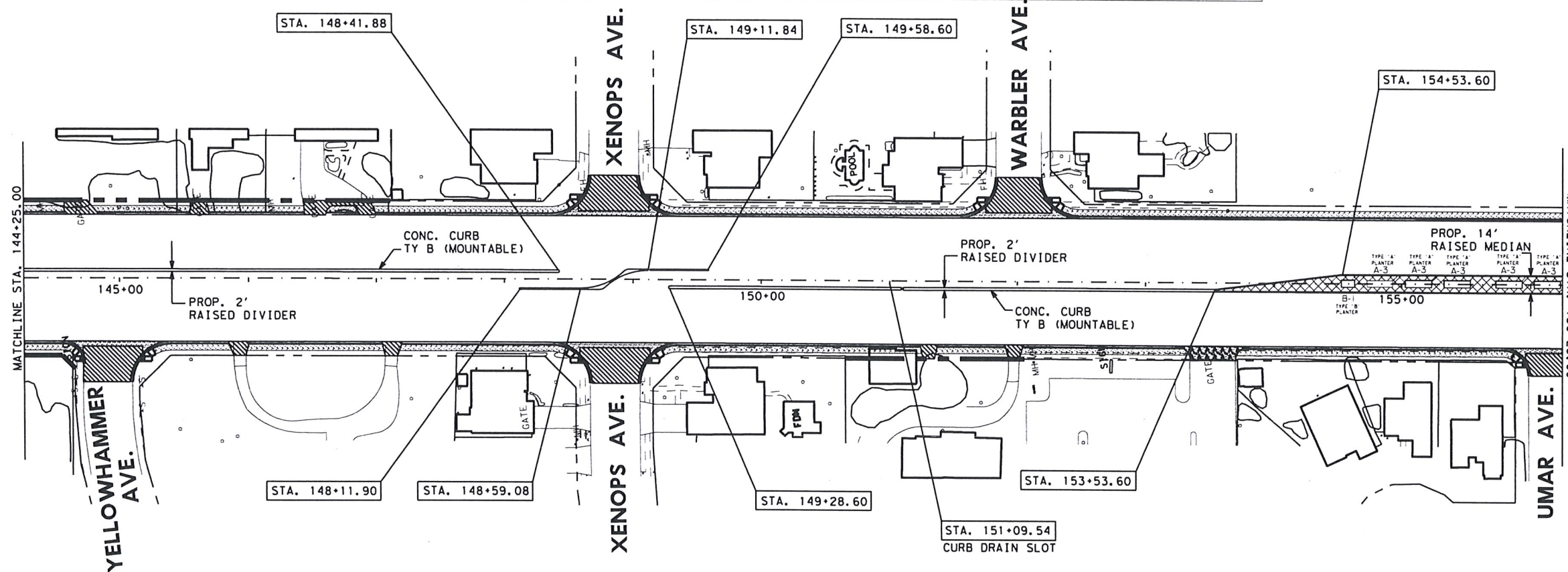
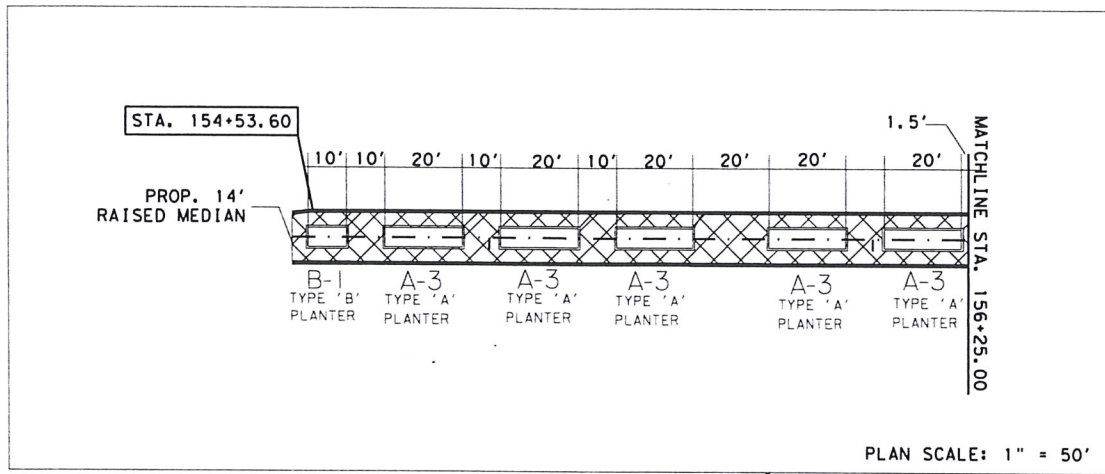
FM 2220
 ESTIMATED SHEET TOTALS ITEM 528
 PAVERS

SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL 108.8

PLAN SCALE: 1" = 100'

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 TEXAS DEPARTMENT OF TRANSPORTATION
 FM 2220
 LANDSCAPE LAYOUT

SHEET 2 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.		JOB		SHEET NO.	
6	STP1602(275)MM		038		147	
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

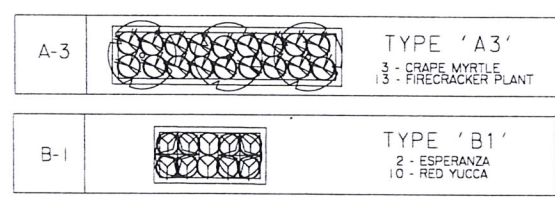


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 OVER COMPLAINTS REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

Stephen P. Walker
 STEPHEN P. WALKER L.A. DATE: 28 Feb. 2014

ITEM 192 PLANTING PLAN
 FM 2220
 ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	15
WILD OLIVE	CORDIA BOISSERI	
ESPERANZA	TECOMA STANS	2
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	65
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	'COMPACTA' LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	10



FM 2220
 ESTIMATED SHEET TOTALS ITEM 160
 TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL 41

FM 2220
 ESTIMATED SHEET TOTALS ITEM 528
 PAVERS

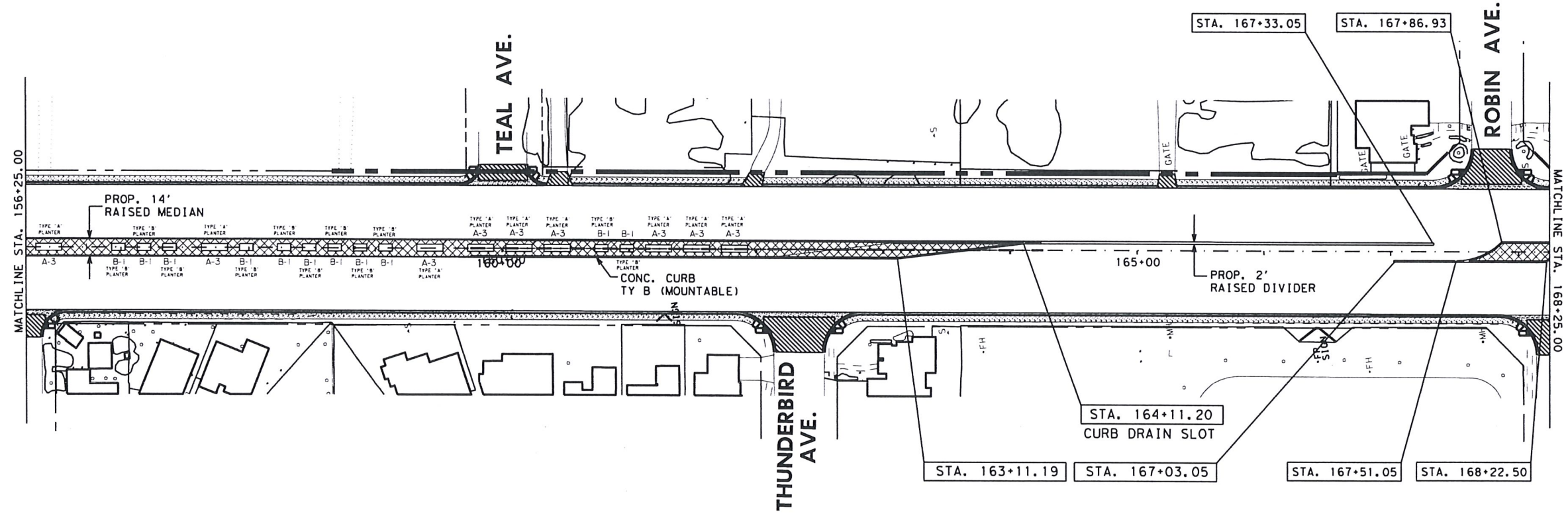
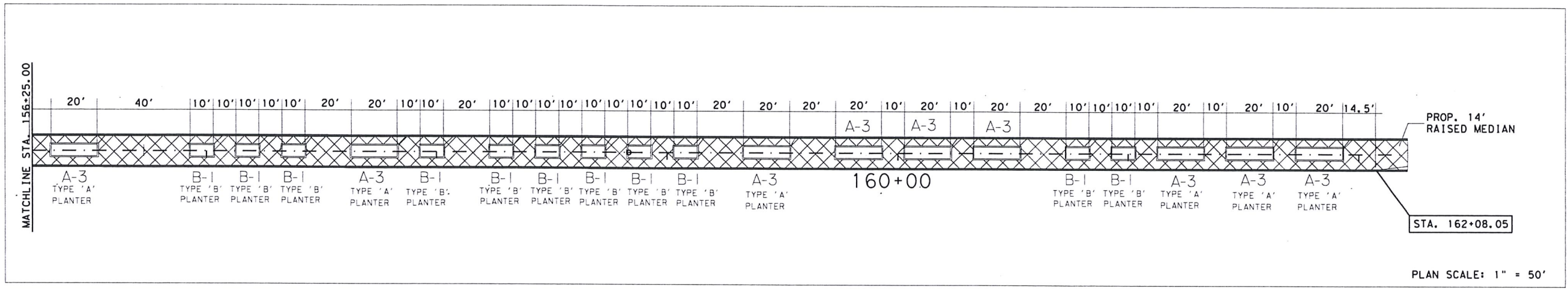
SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL 250

PLAN SCALE: 1" = 100'

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 TEXAS DEPARTMENT OF TRANSPORTATION
 FM 2220
 LANDSCAPE LAYOUT

SHEET 3 OF 10 SHEETS

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.			
6	STP1602 (275)MM	148			
STATE	COUNTY	CONTRACT	SECTION	JOB	HIGHWAY NO.
TEXAS	PHR HIDALGO	2094	01	038	FM 2220

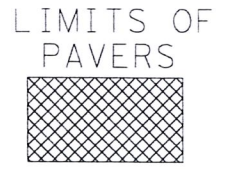
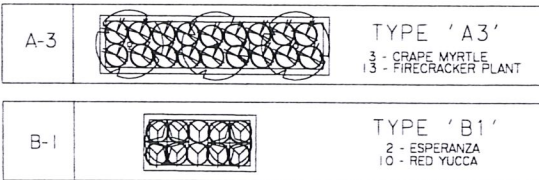


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 OVER COMPLAINTS REGARDING THE PROFESSIONAL
 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
 STEPHEN P. WALKER L.A. DATE

ITEM 192 PLANTING PLAN
 FM 2220
 ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDIFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	27
WILD OLIVE	CORDIA BOISSIERI	
ESPERANZA	TECOMA STANS	22
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	117
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	COMPACTA LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	110



FM 2220
 ESTIMATED SHEET TOTALS ITEM 160
 TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL 107.3

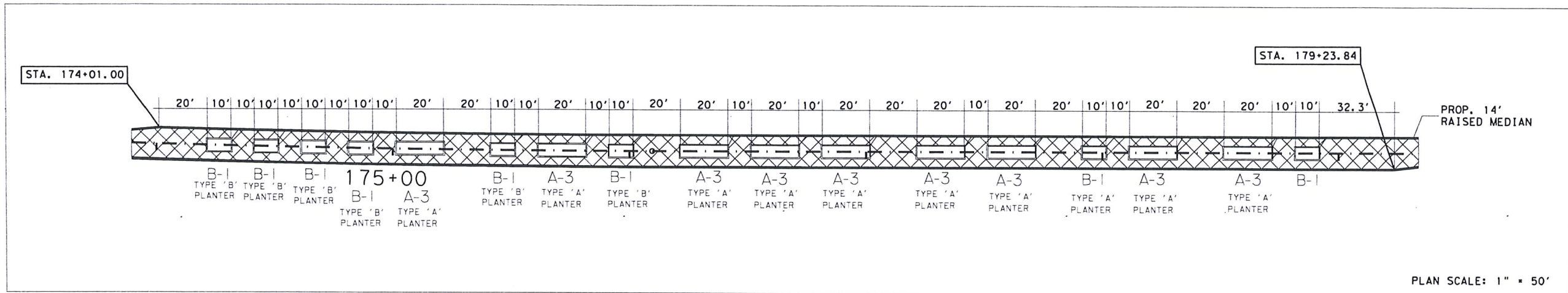
FM 2220
 ESTIMATED SHEET TOTALS ITEM 528
 PAVERS

SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL 919.27

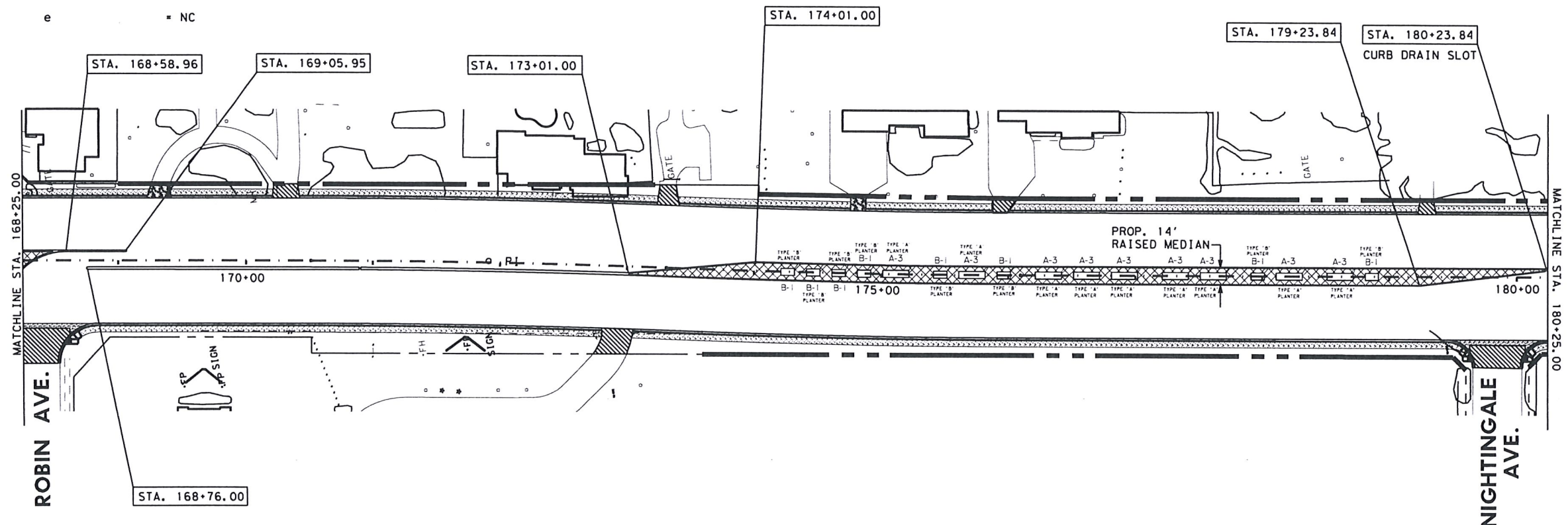
PLAN SCALE: 1" = 100'

© 2013
 TEXAS DEPARTMENT OF TRANSPORTATION
 FM 2220
 LANDSCAPE LAYOUT

SHEET 4 OF 10 SHEETS						
FED. RD. DIST. NO.	PROJECT NO.	SHEET NO.				
6	STP1602 (275)MM	149				
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



PLAN SCALE: 1" = 50'

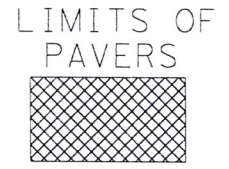
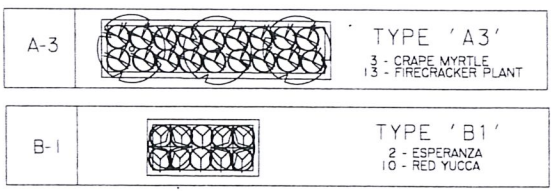


THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
TELEPHONE (512) 305-9000, HAS JURISDICTION
OVER COMPLAINTS REGARDING THE PROFESSIONAL
PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

Stephen P. Walker
STEPHEN P. WALKER L.A. 24 Feb. 2017
DATE

ITEM 192 PLANTING PLAN
FM 2220
ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	
CRAPE MYRTLE	LARGERSTROMINA INDICA	27
WILD OLIVE	CORDIA BOISSERI	
ESPERANZA	TECOMA STANS	16
FIRE CRACKER PLANT	RUSSELLIA Equisetifolia	117
LANTANA	LANTANA HORRIDA	
DWARF GENIZO	COMPACTA LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	80



FM 2220
ESTIMATED SHEET TOTALS ITEM 160
TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL 100

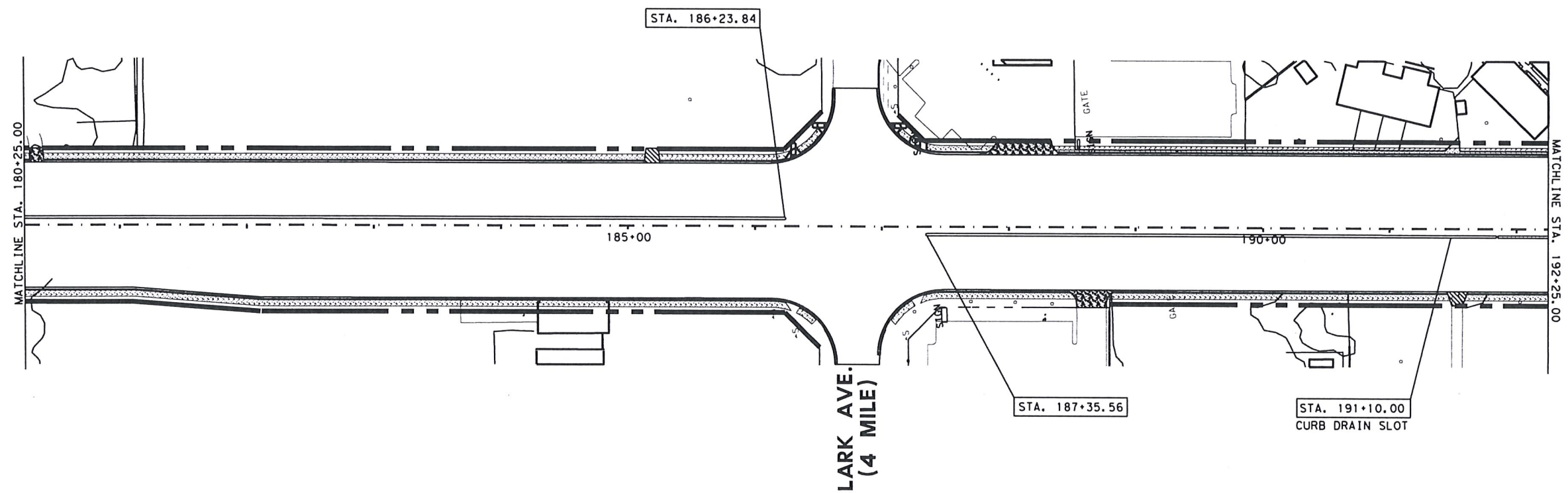
FM 2220
ESTIMATED SHEET TOTALS ITEM 528
PAVERS

SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL 730.8

PLAN SCALE: 1" = 100'

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TEXAS DEPARTMENT OF TRANSPORTATION
FM 2220
LANDSCAPE LAYOUT

SHEET 5 OF 10 SHEETS						
FED. RD. DIST. NO.	PROJECT NO.					SHEET NO.
6	STP1602(275)MM					150
STATE	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.	
TEXAS	PHR HIDALGO	2094	01	038	FM 2220	



NO LANDSCAPE OR PAVERS ON THIS SHEET

ITEM 192 PLANTING PLAN
FM 2220
ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	
ESPERANZA	TECOMA STANS	
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	COMPACTA LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	



FM 2220
ESTIMATED SHEET TOTALS ITEM 160
TOP SOIL

SITE LOCATION	QTY.	EST.	CU/YD.
		EST. TOTAL	

FM 2220
ESTIMATED SHEET TOTALS ITEM 528
PAVERS

SITE LOCATION	QTY.	EST.	SQ/YD.
		EST. TOTAL	

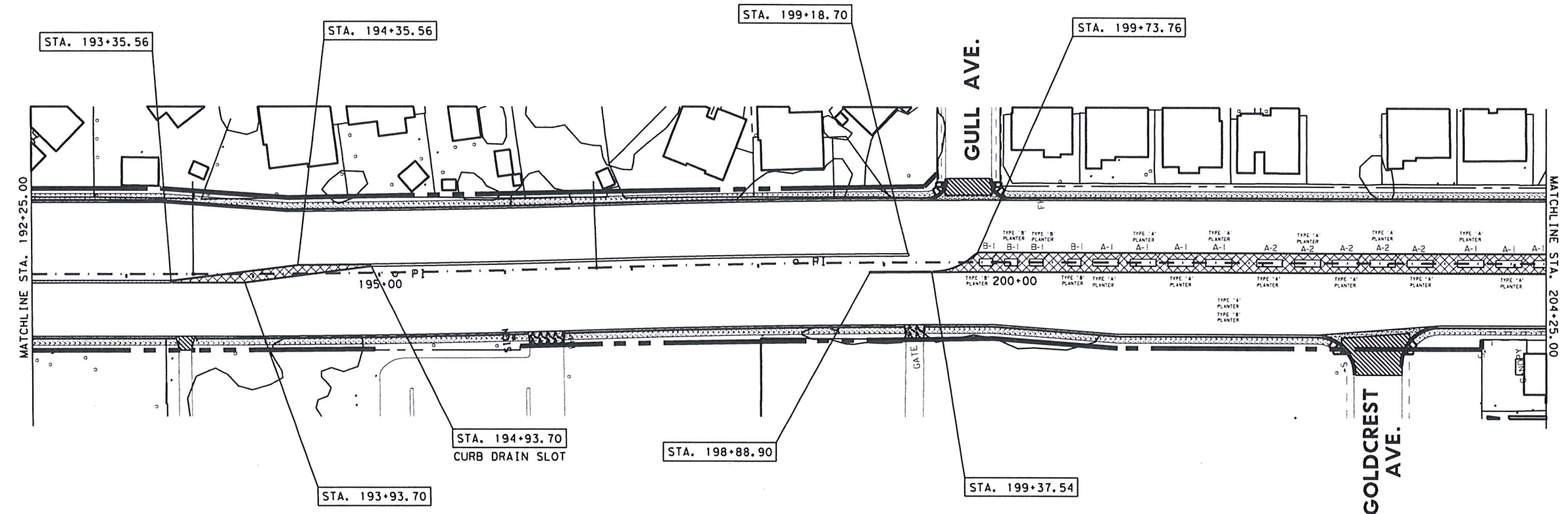
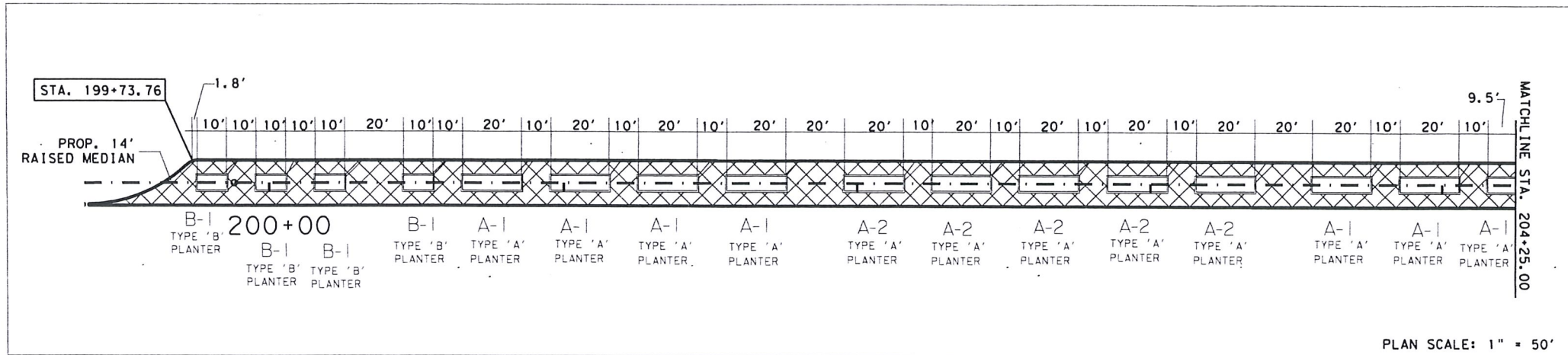
THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
P.O. BOX 12337, AUSTIN, TEXAS 78711-2337
TELEPHONE (512) 305-9000, HAS JURISDICTION
OVER COMPLAINTS REGARDING THE PROFESSIONAL
PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

Stephen P. Walker
STEPHEN P. WALKER L.A. 24 Feb. 2017
DATE

PLAN SCALE: 1" = 100'

© 2013
TEXAS DEPARTMENT OF TRANSPORTATION
FM 2220
LANDSCAPE LAYOUT

SHEET 6 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.					SHEET NO.
6	STP1602 (275) MM					151
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

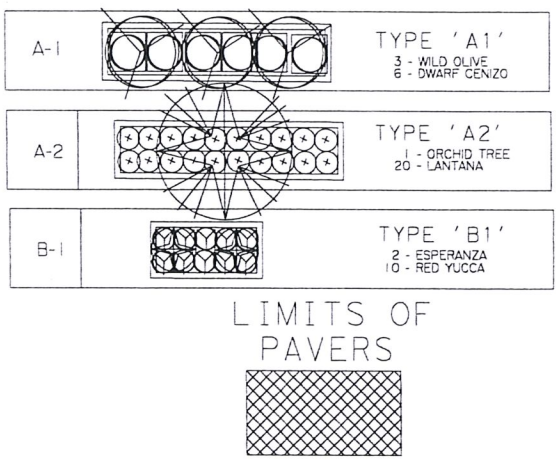


THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
P. O. BOX 12337, AUSTIN, TEXAS 78711-2337
TELEPHONE (512) 305-9000, HAS JURISDICTION
OVER COMPLAINTS REGARDING THE PROFESSIONAL
PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

ITEM 192 PLANTING PLAN
FM 220
ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	4
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	21
ESPERANZA	TECOMA STANS	8
FIRE CRACKER PLANT	RUSSELLIA Equisetifolia	
LANTANA	LANTANA HORRIDA	100
DWARF CENIZO	'COMPACTA' LEUCOPHYLLUM FRUTESCENS	42
RED YUCCA	HESPERALOE PARVIFLORA	40



FM 220
ESTIMATED SHEET TOTALS ITEM 160
TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL 103.6

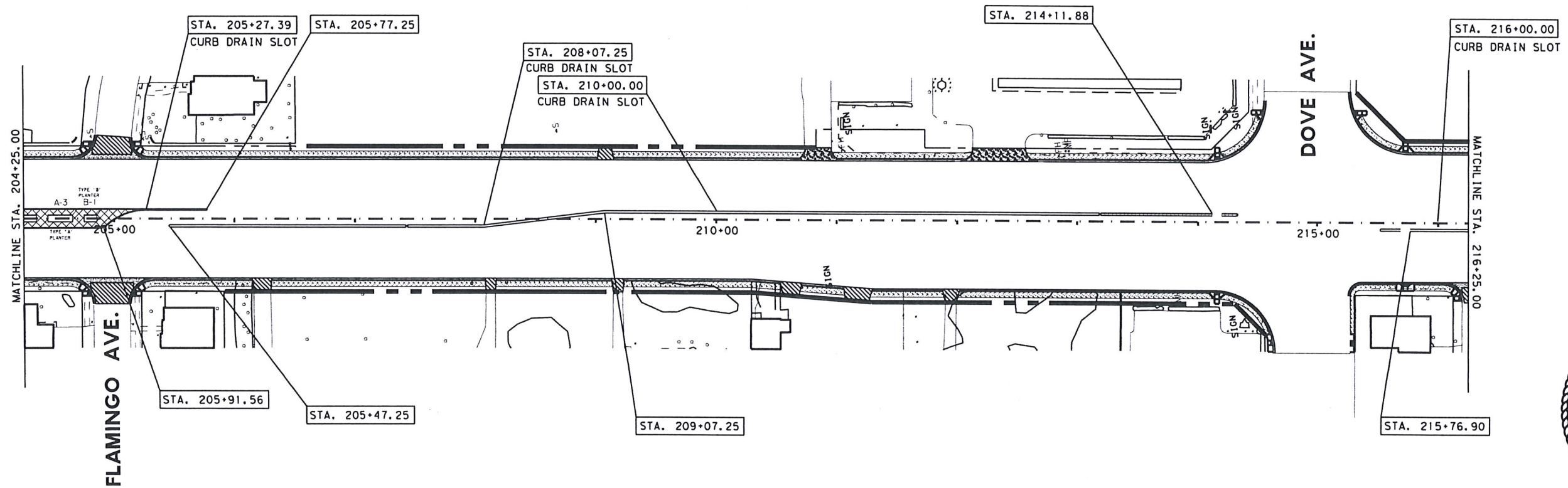
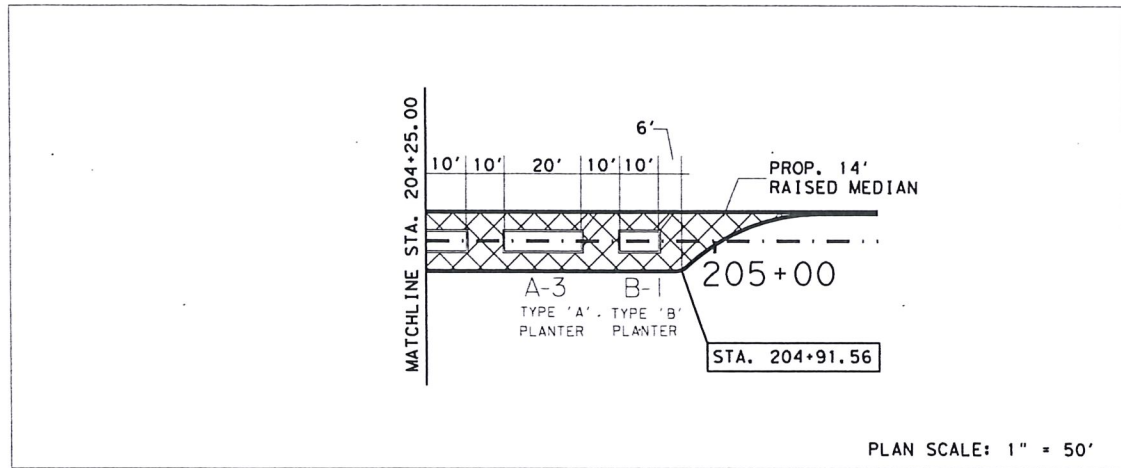
FM 220
ESTIMATED SHEET TOTALS ITEM 528
PAVERS

SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL 675

PLAN SCALE: 1" = 100'

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TEXAS DEPARTMENT OF TRANSPORTATION
FM 220
LANDSCAPE LAYOUT

SHEET 7 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.				SHEET NO.	
6	STP1602 (275)MM				152	
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

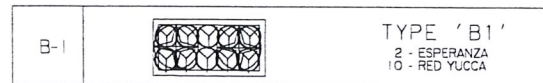


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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

Stephen P. Walker
STEPHEN P. WALKER L.A. DATE 24 Feb. 2017

ITEM 192 PLANTING PLAN
FM 2220
ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDIFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	3
ESPERANZA	TECOMA STANS	2
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	'COMPACTA' LEUCOPHYLLUM FRUTESCENS	6
RED YUCCA	HESPERALOE PARVIFLORA	10



FM 2220
ESTIMATED SHEET TOTALS ITEM 160
TOP SOIL

SITE LOCATION		QTY. EST.
		CU/YD.
		EST. TOTAL 11

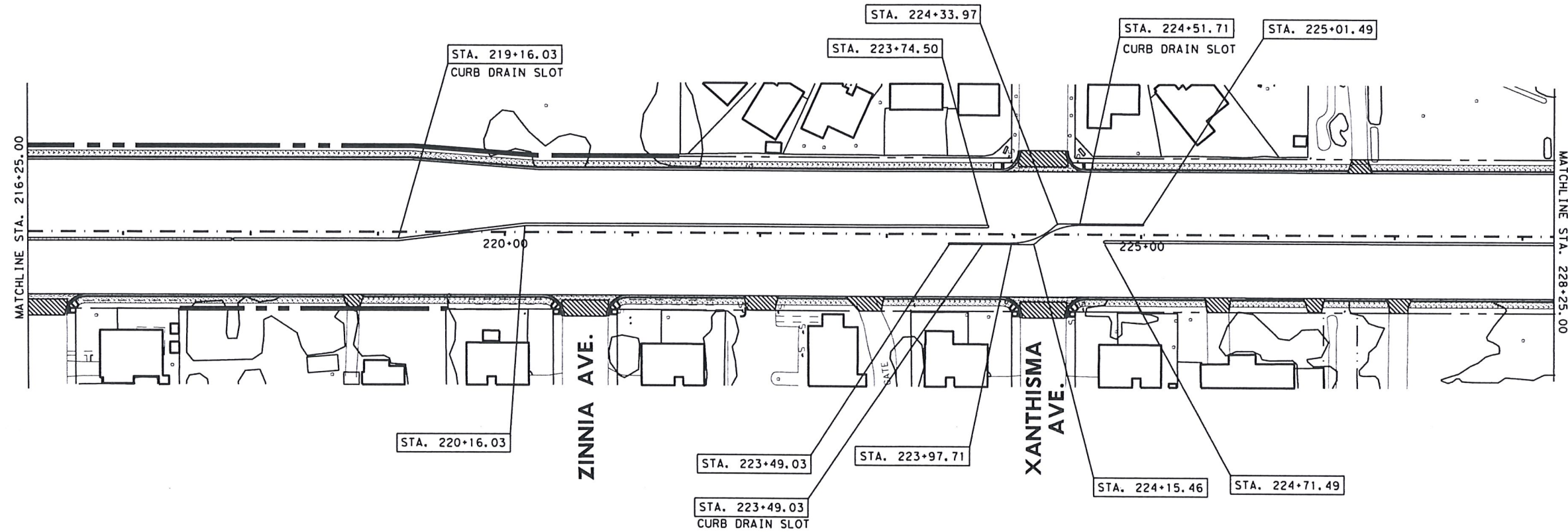
FM 2220
ESTIMATED SHEET TOTALS ITEM 528
PAVERS

SITE LOCATION		QTY. EST.
		SQ/YD.
		EST. TOTAL 33.5

PLAN SCALE: 1" = 100'

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FM 2220
LANDSCAPE LAYOUT

SHEET 8 OF 10 SHEETS							
FED. RD. DIV. NO.	PROJECT NO.			JOB			SHEET NO.
6	STP1602 (275)MM						153
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.	
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220	



NO LANDSCAPE OR PAVERS ON THIS SHEET

ITEM 192 PLANTING PLAN
FM 2220
ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDFLORA	
GRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSERI	
ESPERANZA	TECOMA STANS	
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	'COMPACTA' LEUCOPHYLLUM FRUTESCENS	
RED YUCCA	HESPERALOE PARVIFLORA	



FM 2220
ESTIMATED SHEET TOTALS ITEM 160
TOP SOIL

SITE LOCATION	QTY. EST. CU/YD.
	EST. TOTAL

FM 2220
ESTIMATED SHEET TOTALS ITEM 528
PAVERS

SITE LOCATION	QTY. EST. SQ/YD.
	EST. TOTAL



THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

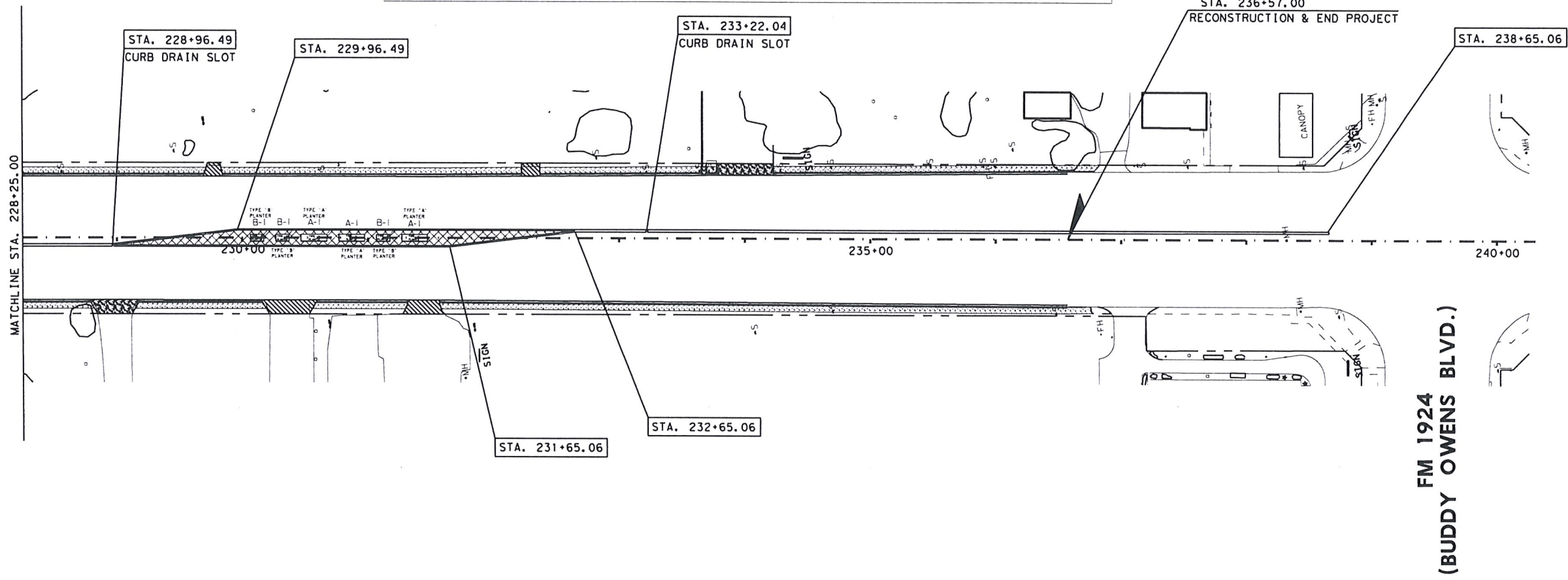
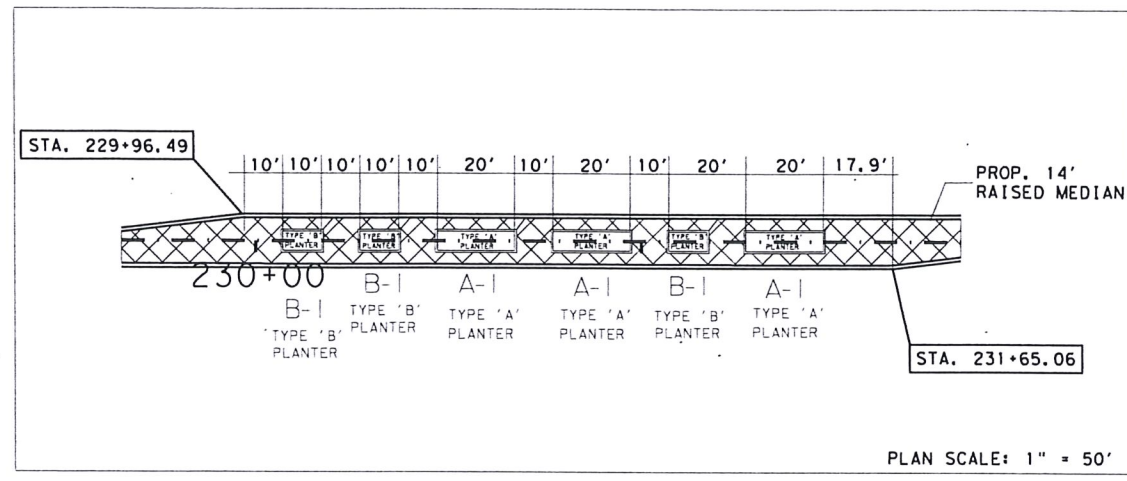
Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

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TEXAS DEPARTMENT OF TRANSPORTATION
FM 2220
LANDSCAPE LAYOUT

SHEET 9 OF 10 SHEETS

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	STP1602(275)MM	154
STATE	COUNTY	CONTRACT
TEXAS	PHR HIDALGO	2094
DIST.	SECT.	JOB
	01	038
HIGHWAY NO.		
FM 2220		

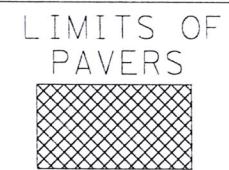
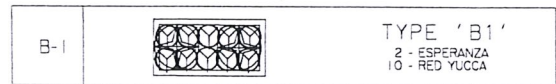
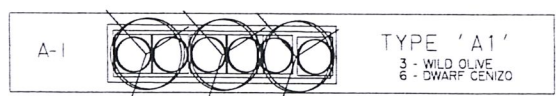


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 ARCHITECTS IN TEXAS.

Stephen P. Walker
 STEPHEN P. WALKER L.A. 24 Feb. 2017
 DATE

ITEM 192 PLANTING PLAN
 FM 2220
 ESTIMATED SHEET TOTALS

COMMON NAME	SCIENTIFIC NAME	QTY.
TEXAS MT. LAUREL	SOPHORA SECUNDIFLORA	
CRAPE MYRTLE	LARGERSTROMINA INDICA	
WILD OLIVE	CORDIA BOISSIERI	18
ESPERANZA	TECOMA STANS	6
FIRE CRACKER PLANT	RUSSELLIA EQUISETIFOLIA	
LANTANA	LANTANA HORRIDA	
DWARF CENIZO	COMPACTA LEUCOPHYLLUM FRUTESCENS	36
RED YUCCA	HESPERALOE PARVIFLORA	30



FM 2220
 ESTIMATED SHEET TOTALS ITEM 160
 TOP SOIL

SITE LOCATION	QTY.	EST.
		33.5

FM 2220
 ESTIMATED SHEET TOTALS ITEM 528
 PAVERS

SITE LOCATION	QTY.	EST.
		294

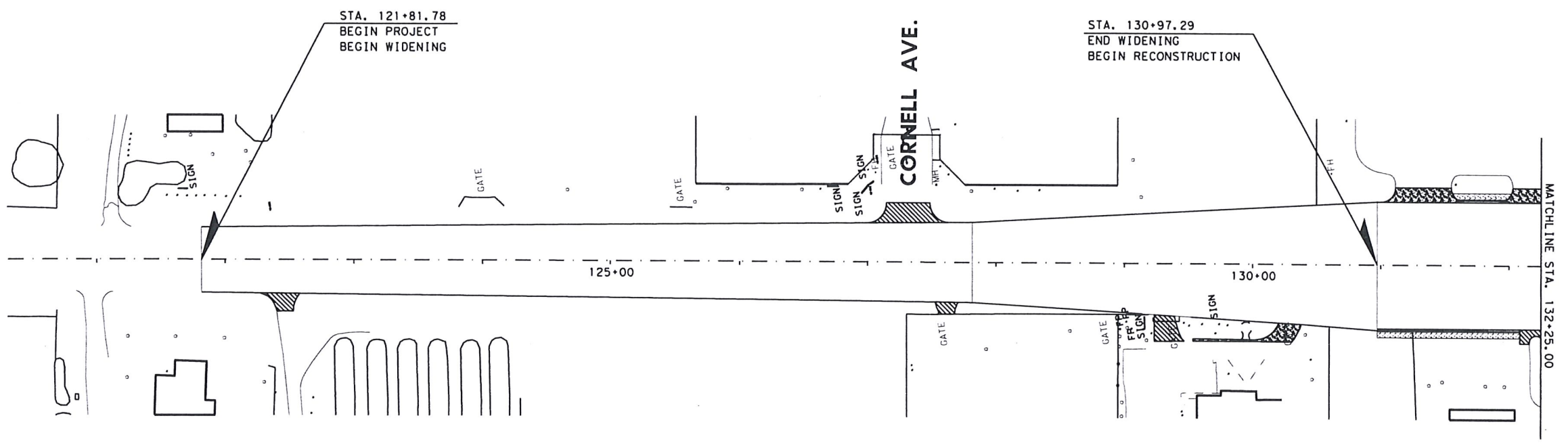
PLAN SCALE: 1" = 100'

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**FM 2220
 LANDSCAPE LAYOUT**

SHEET 10 OF 10 SHEETS

FED. RD. DIST. NO.	PROJECT NO.	SHEET NO.
6	STP1602(275)MM	155
STATE	COUNTY	CONTRACT
TEXAS	PHR HIDALGO	2094
DIST.	SECT.	JOB
	01	038
		FM 2220



NO IRRIGATION ON THIS SHEET



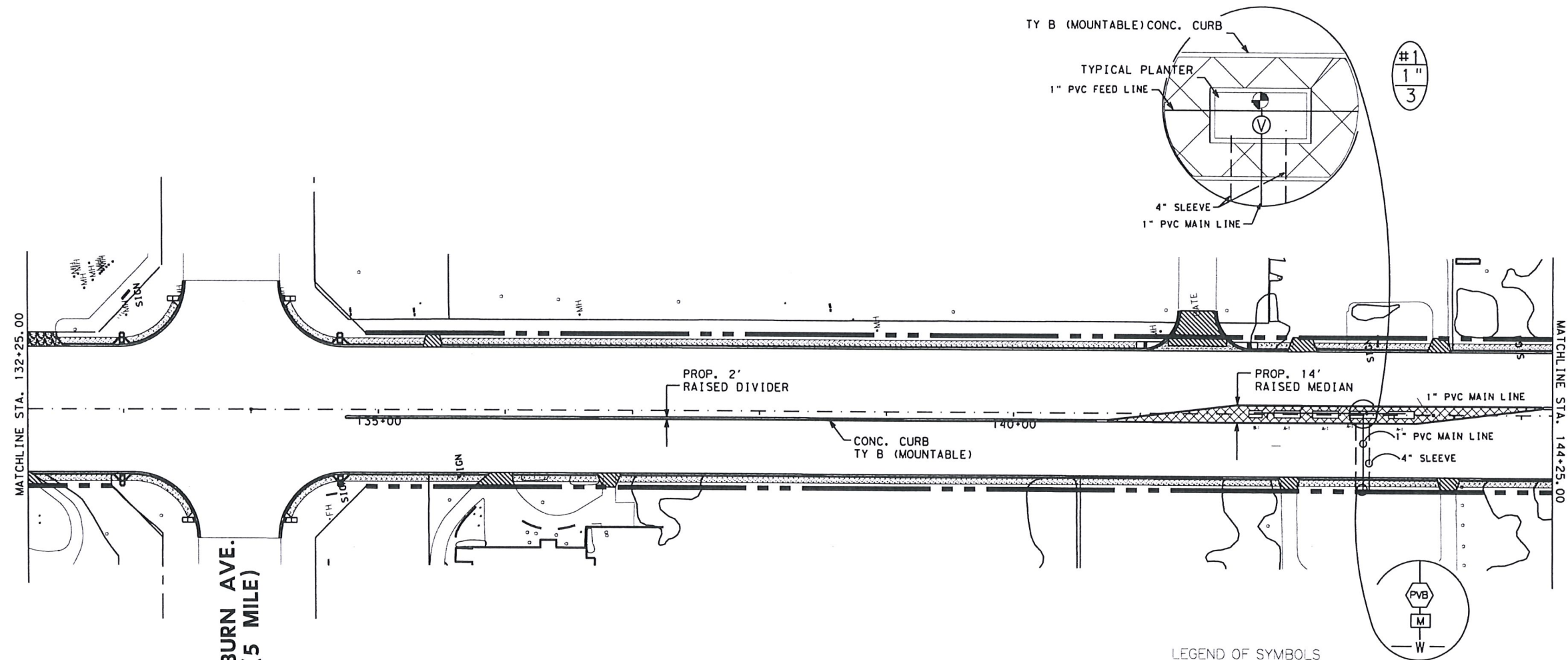
Stephen P. Walker
 STEPHEN P. WALKER L.A. DATE 24 Feb. 2017

PLAN SCALE: 1" = 100'

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**FM 2220
 LANDSCAPE IRRIGATION
 LAYOUT**

SHEET 1 OF 10 SHEETS							
FED. RD. DIV. NO.	PROJECT NO.						SHEET NO.
6	STP1602 (275)MM						163
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.	
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220	

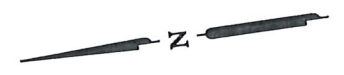


AUBURN AVE.
(5 MILE)

DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

- LEGEND OF SYMBOLS
- 5/8" WATER METER
 - 1" BACKFLOW PREVENTER FEBCO 765 OR EQUAL
 - REMOTE CONTROL VALVE WITH CONTROLLER RAINBIRD PEB W/ TBOS OR EQUAL
 - QUICK COUPLING VALVE RAINBIRD 44lrc OR EQUAL
 - MAINLINE
 - W ——— EXISTING CITY MAIN
 - BORING UNDER ROADWAY 4" SCH 40 SLEEVE
 - VALVE NUMBER
1" VALVE SIZE
17 GPM



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ARCHITECTS IN TEXAS.

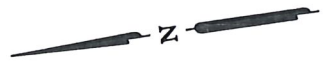
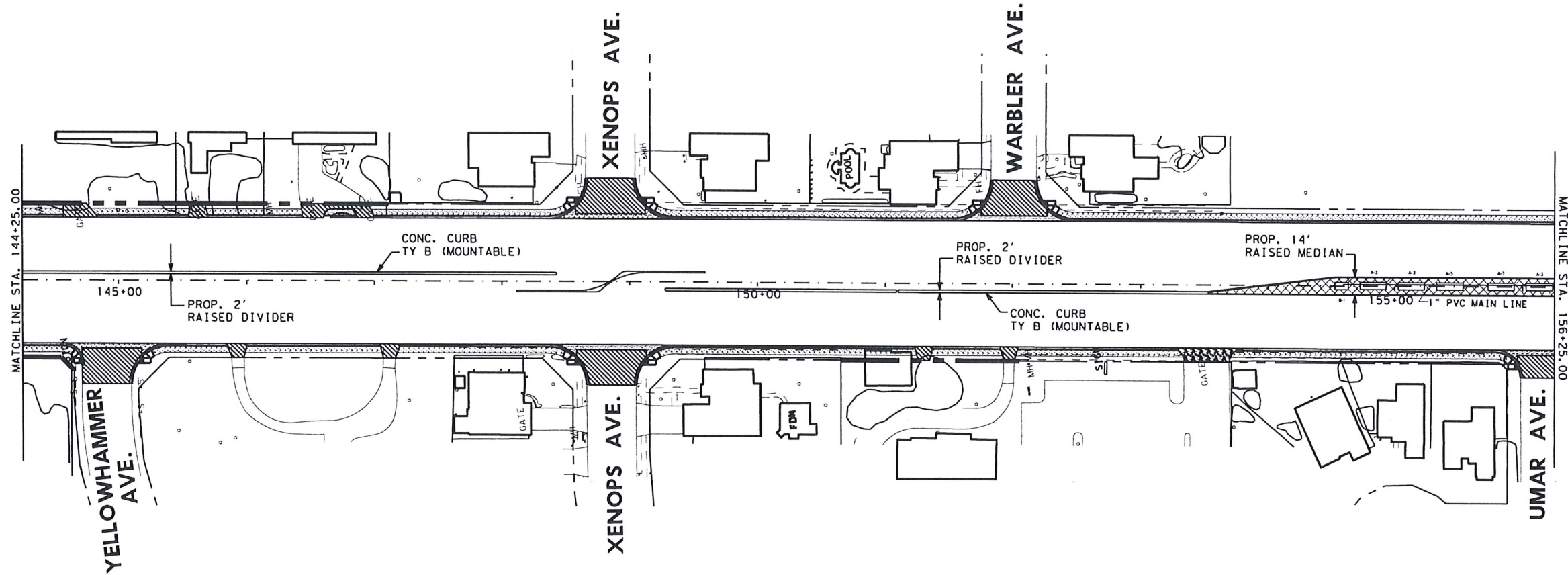
Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

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**FM 220
LANDSCAPE IRRIGATION
LAYOUT**

SHEET 2 OF 10 SHEETS		FED. RD. DIST. NO.	PROJECT NO.	SHEET NO.
		6	STP1602(275)MM	164
STATE	COUNTY	CONT.	SECT.	JOB
TEXAS	PHR HIDALGO	2094	01	038
				HIGHWAY NO.
				FM 2220



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 PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
 ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
 STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF GENIZO	5
RED YUCCA	5

- LEGEND OF SYMBOLS
- MAINLINE
 - W — EXISTING CITY MAIN
 - BORING UNDER ROADWAY
 - 4" SCH 40 SLEEVE

© 2017

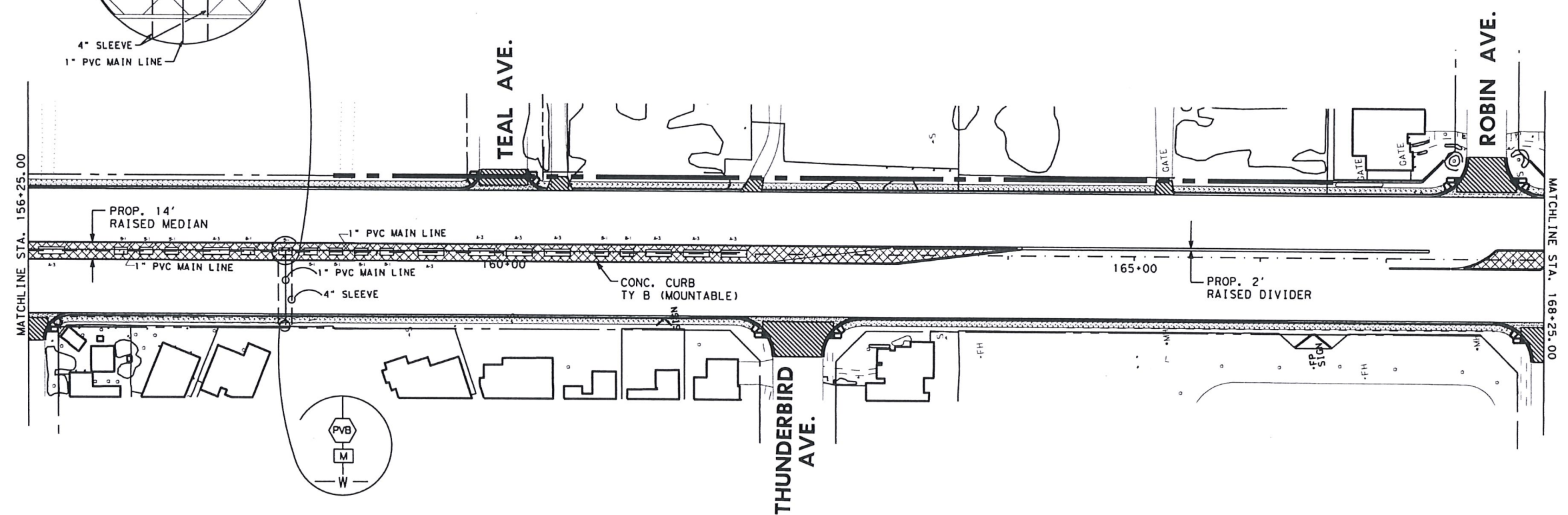
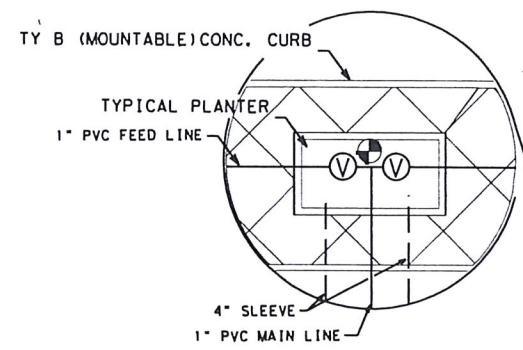
**FM 2220
 LANDSCAPE IRRIGATION
 LAYOUT**

SHEET 3 OF 10 SHEETS

FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
6	STP1602 (275)MM	165
STATE	COUNTY	CONT. SECT.
TEXAS	PHR HIDALGO	2094 01
JOB	HIGHWAY NO.	
038	FM 2220	

#2
1"
18

#3
1"
18



DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

LEGEND OF SYMBOLS

- 1" WATER METER
- 1" BACKFLOW PREVENTER
FEBCO 765 OR EQUAL
- REMOTE CONTROL VALVE WITH CONTROLLER
RAINBIRD PEB W/ TBOS OR EQUAL
- QUICK COUPLING VALVE
RAINBIRD 44irc OR EQUAL
- MAINLINE
- EXISTING CITY MAIN
- BORING UNDER ROADWAY
4" SCH 40 SLEEVE

1 VALVE NUMBER
1" VALVE SIZE
17 GPM



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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

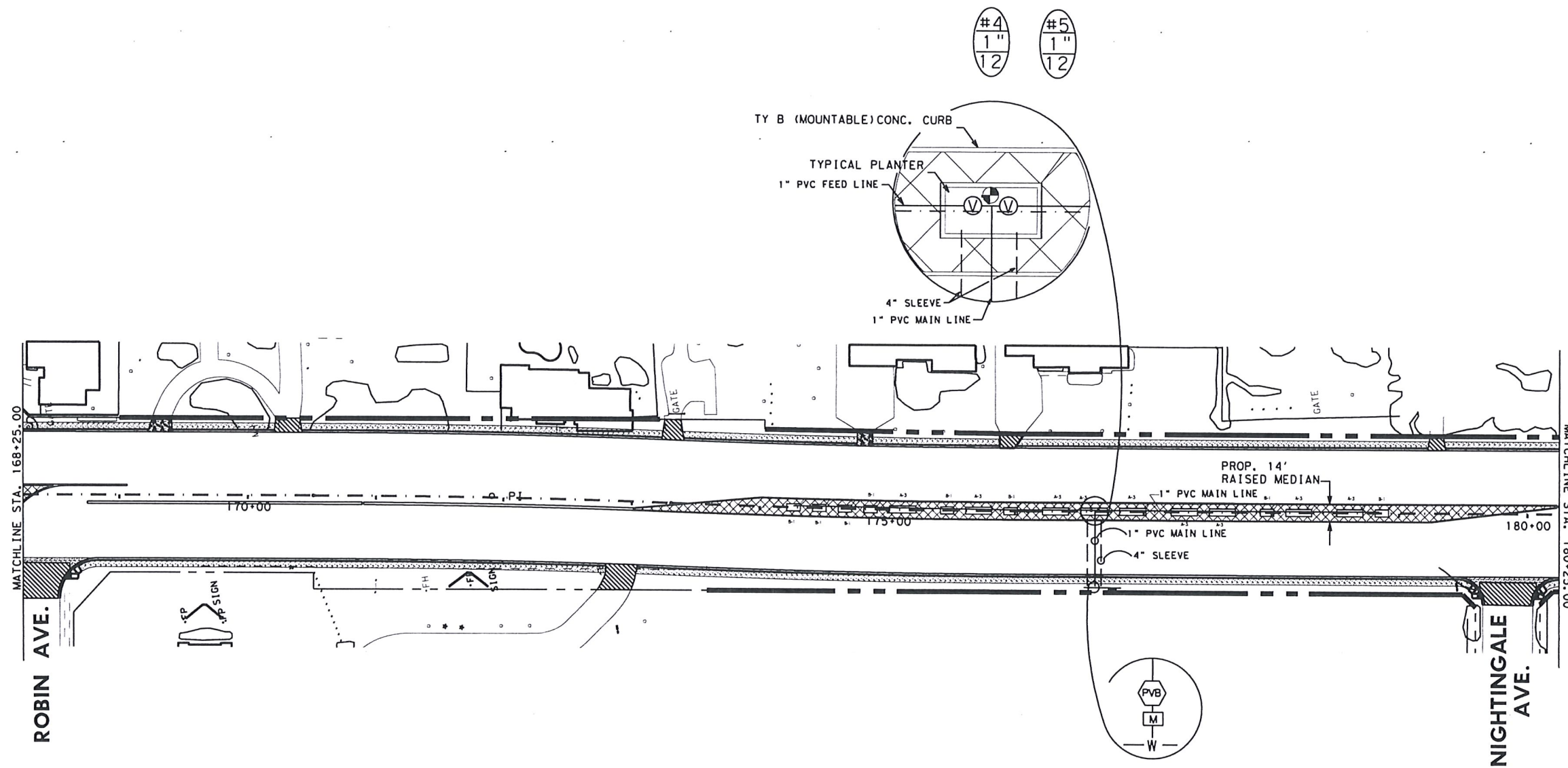
Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

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**FM 220
LANDSCAPE IRRIGATION
LAYOUT**

SHEET 4 OF 10 SHEETS		FED. RD. DIST. NO.	PROJECT NO.	SHEET NO.
		6	STP1602 (275)MM	166
STATE	DIST.	COUNTY	CONT.	SECT.
TEXAS	PHR	HIDALGO	2094	01
			JOB	HIGHWAY NO.
			038	FM 2220



DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

LEGEND OF SYMBOLS

- 5/8" WATER METER
- 1" BACKFLOW PREVENTER
FEBCO 765 OR EQUAL
- REMOTE CONTROL VALVE WITH CONTROLLER
RAINBIRD PEB W/ TBOS OR EQUAL
- QUICK COUPLING VALVE
RAINBIRD 44irc OR EQUAL
- MAINLINE
- W EXISTING CITY MAIN
- BORING UNDER ROADWAY
4" SCH 40 SLEEVE

1 VALVE NUMBER
1" VALVE SIZE
17 GPM



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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

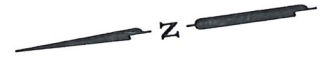
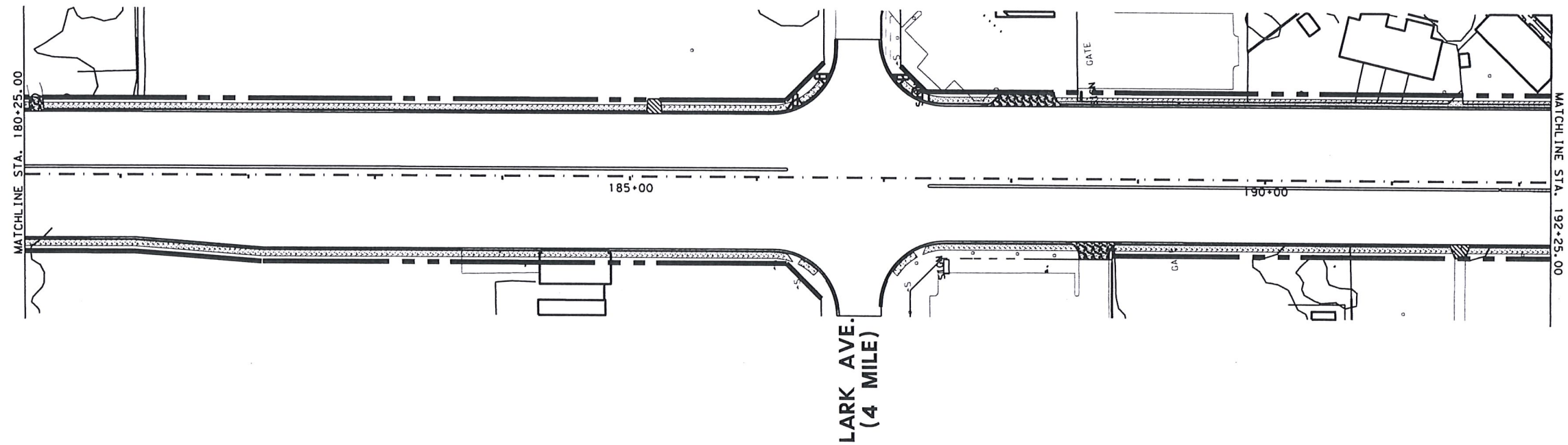
Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

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FM 2220
LANDSCAPE IRRIGATION
LAYOUT

SHEET 5 OF 10 SHEETS						
PROJ. NO.	CITY NO.	PROJECT NO.	SHEET NO.		SHEET NO.	
6	STP1602 (275)MM		167		167	
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

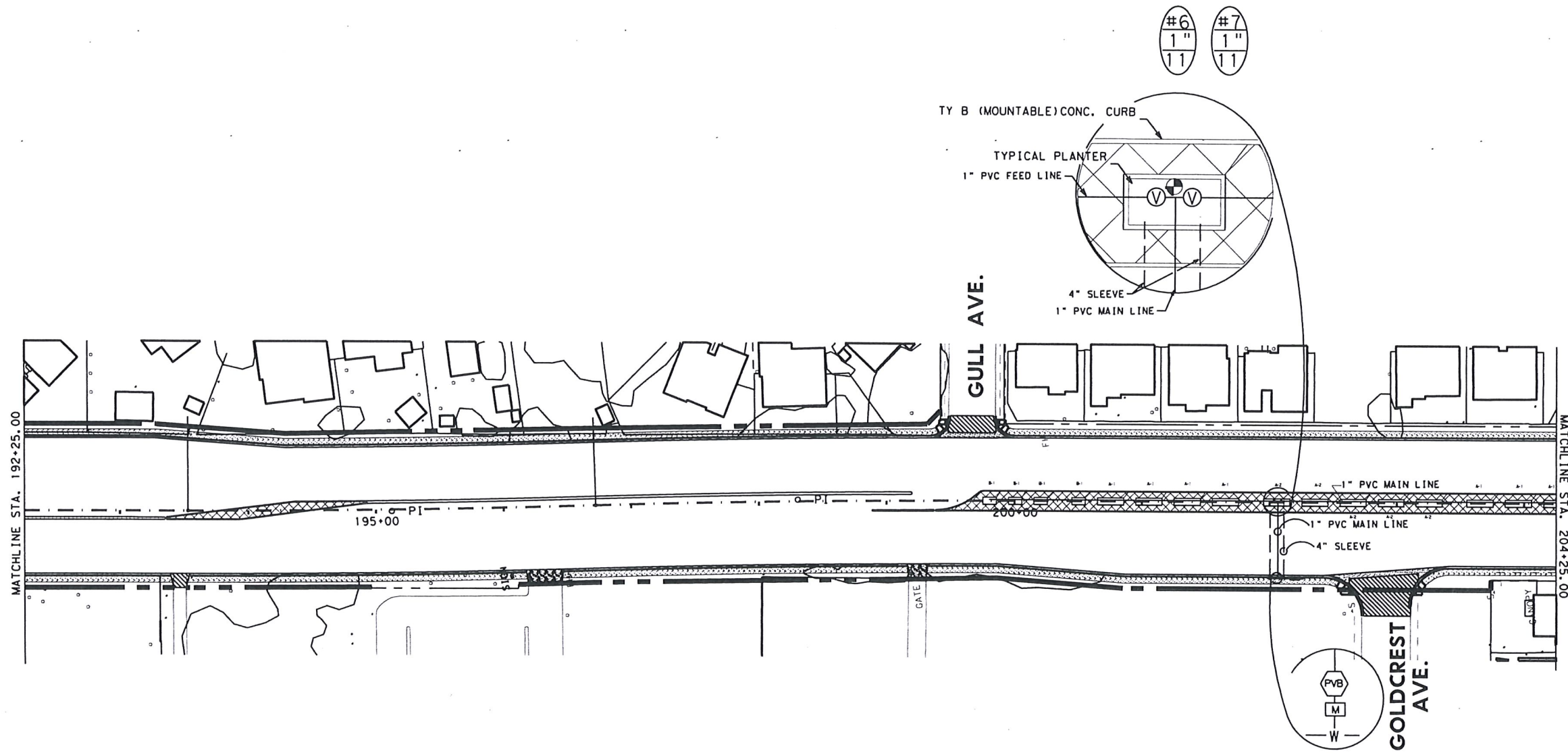
NO IRRIGATION ON THIS SHEET

PLAN SCALE: 1" = 100'

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**FM 2220
LANDSCAPE IRRIGATION
LAYOUT**

SHEET 6 OF 10 SHEETS						
FED. RD. DIST. NO.	PROJECT NO.					SHEET NO.
6	STP1602(275)MM					168
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



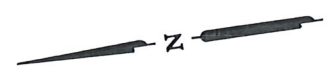
DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

LEGEND OF SYMBOLS

- 5/8" WATER METER
- 1" BACKFLOW PREVENTER
FEBCO 765 OR EQUAL
- REMOTE CONTROL VALVE WITH CONTROLLER
RAINBIRD PEB W/ TBOS OR EQUAL
- QUICK COUPLING VALVE
RAINBIRD 44rc OR EQUAL
- MAINLINE
- EXISTING CITY MAIN
- BORING UNDER ROADWAY
4" SCH 40 SLEEVE

VALVE NUMBER
 VALVE SIZE
 GPM



THE TEXAS BOARD OF ARCHITECTURAL EXAMINERS,
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PRACTICES OF PERSONS REGISTERED AS LANDSCAPE
ARCHITECTS IN TEXAS.

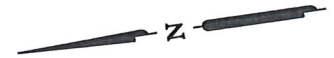
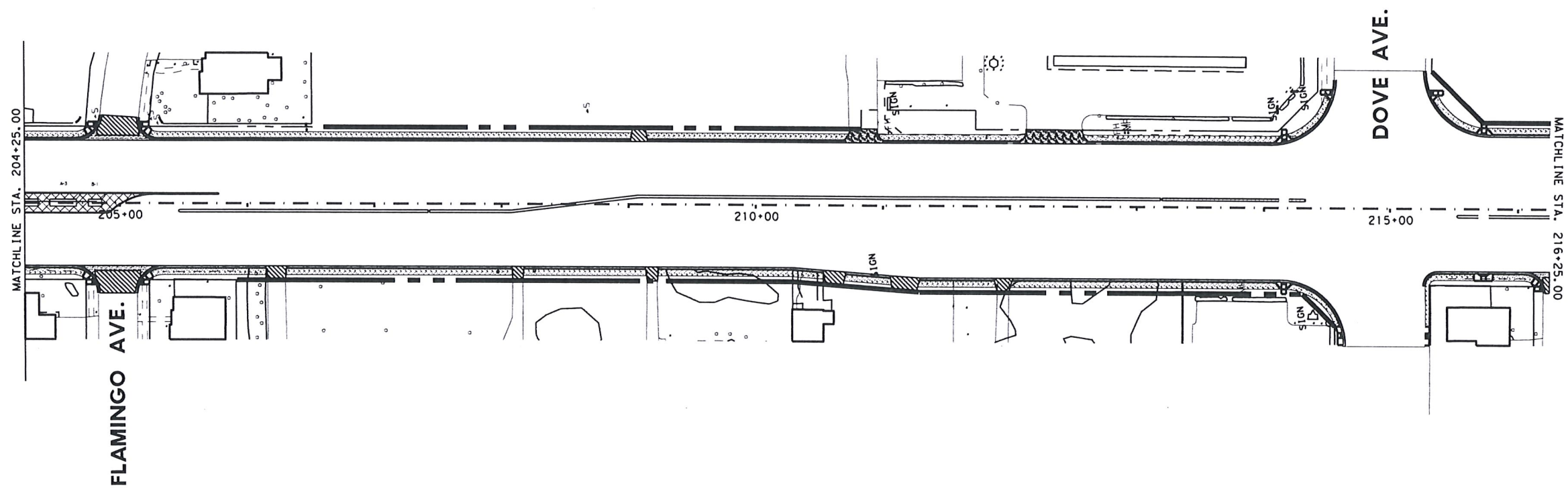
Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

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FM 2220
LANDSCAPE IRRIGATION
LAYOUT

SHEET 7 OF 10 SHEETS						
PROJ. NO.	PROJECT NO.			SHEET NO.		
6	STP1602 (275)MM			169		
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



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 ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
 STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

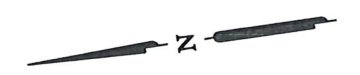
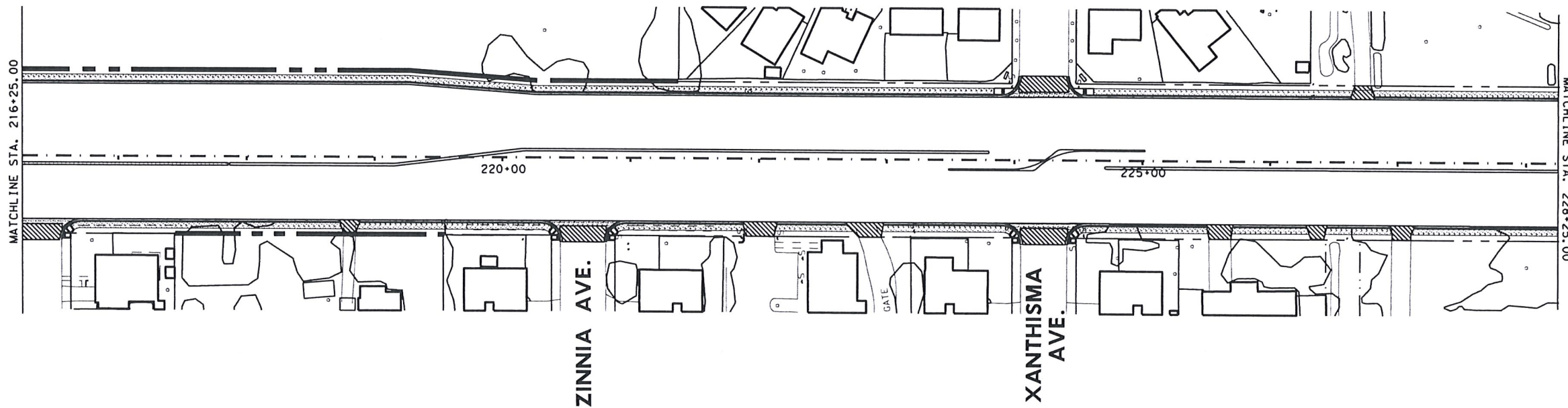
LEGEND OF SYMBOLS

- MAINLINE
- W——— EXISTING CITY MAIN
- BORING UNDER ROADWAY
4" SCH 40 SLEEVE

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**FM 2220
 LANDSCAPE IRRIGATION
 LAYOUT**

SHEET 8 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.					SHEET NO.
6	STP1602 (275)MM					170
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



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 ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
 STEPHEN P. WALKER L.A. DATE

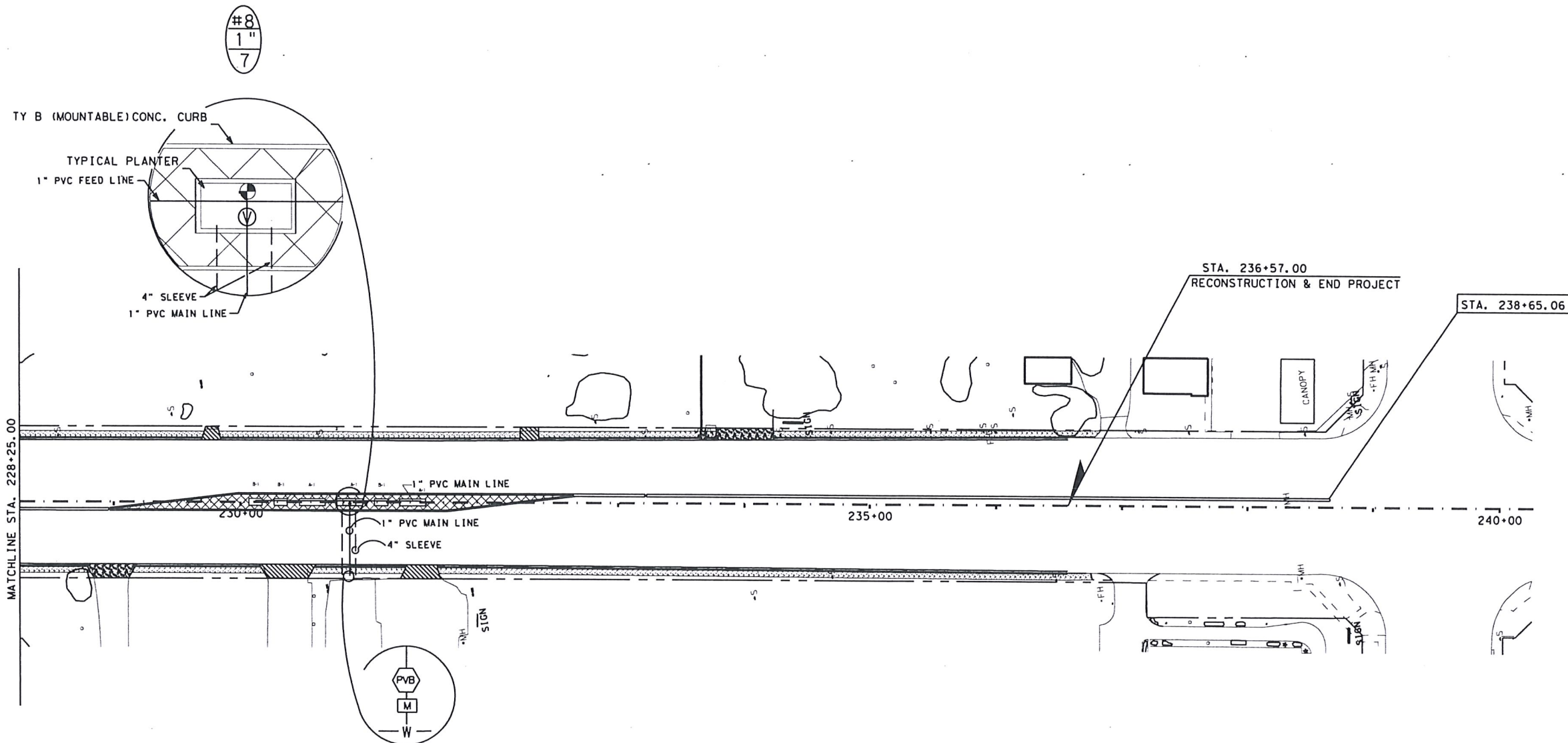
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PLAN SCALE: 1" = 100'

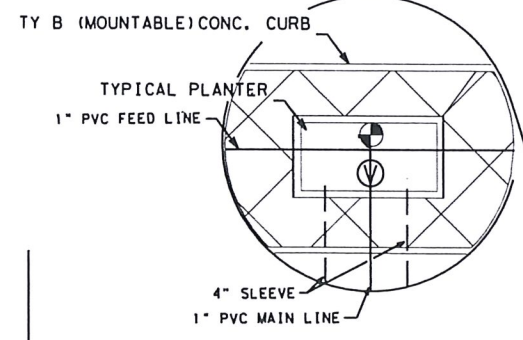
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**FM 2220
 LANDSCAPE IRRIGATION
 LAYOUT**

SHEET 9 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.					SHEET NO.
6	STP1602 (275)MM					171
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



#8
1"
7



MATCHLINE STA. 228+25.00

230+00

235+00

240+00

DRIP EMITTERS AT EACH PLANT

COMMON NAME	GPH
TEXAS MT. LAUREL	10
GRAPE MYRTLE	10
WILD OLIVE	10
ESPERANZA	10
FIRE CRACKER PLANT	5
LANTANA	5
DWARF CENIZO	5
RED YUCCA	5

LEGEND OF SYMBOLS

- 5/8" WATER METER
- 1" BACKFLOW PREVENTER
FEBCO 765 OR EQUAL
- REMOTE CONTROL VALVE WITH CONTROLLER
RAINBIRD PEB W/ TBOS OR EQUAL
- QUICK COUPLING VALVE
RAINBIRD 44irc OR EQUAL
- MAINLINE
- EXISTING CITY MAIN
- BORING UNDER ROADWAY
4" SCH 40 SLEEVE

1 VALVE NUMBER
1" VALVE SIZE
17 GPM



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ARCHITECTS IN TEXAS.

Stephen P. Walker 24 Feb. 2017
STEPHEN P. WALKER L.A. DATE

PLAN SCALE: 1" = 100'

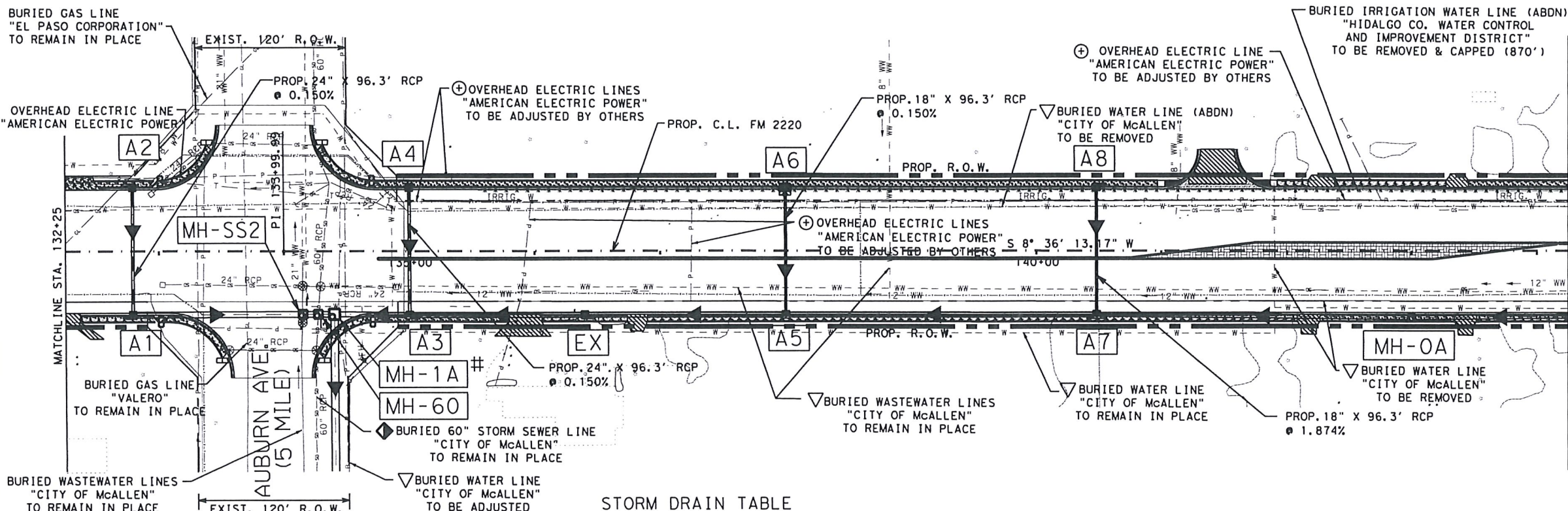
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FM 220
LANDSCAPE IRRIGATION
LAYOUT

SHEET 10 OF 10 SHEETS						
FED. RD. DIV. NO.	PROJECT NO.		JOB			SHEET NO.
6	STP1602(275)MM		038			172
STATE	STATE DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PPOOB.DGN

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NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.
CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

- # SEE OUTFALL DETAILS
- ◆ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

STORM DRAIN TABLE

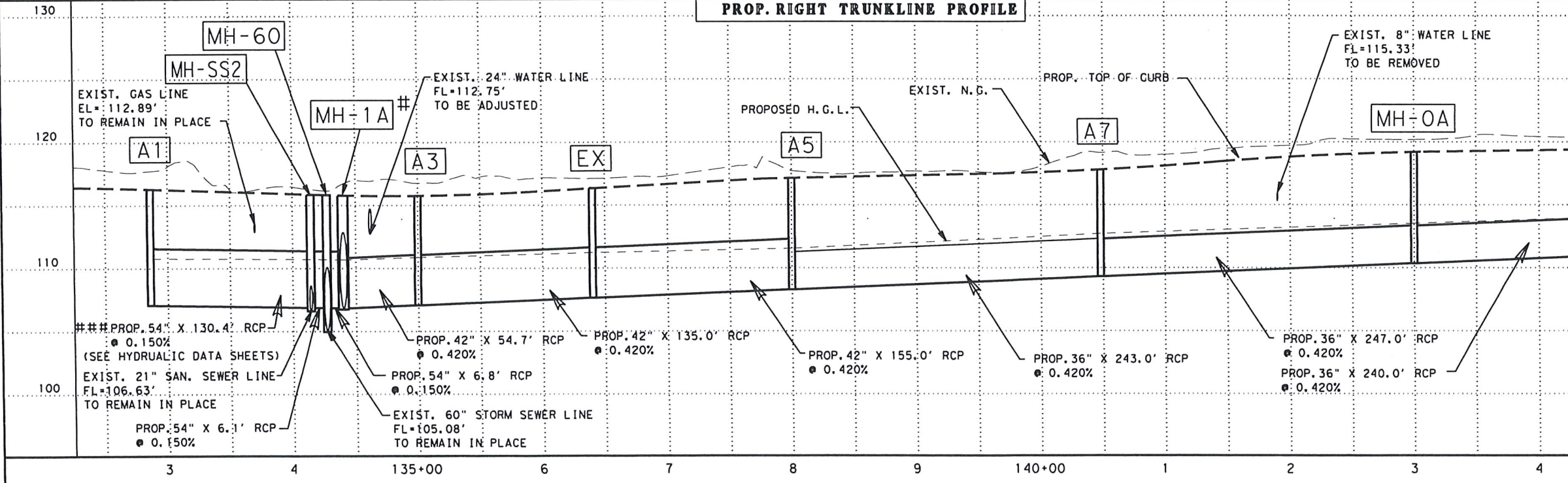
STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
A1	TY "PCU" INLET W/1-EXT (RT)	132+79, 50.5' RT	116.30	107.08		107.08	111.49	
A2	TY "PCU" INLET W/1-EXT (LT)	132+79, 50.5' LT	116.30	111.64			111.64	
MH-SS2	TY "PB" MANHOLE	134+15, 50.0' RT	115.87	106.63	106.88	106.88	106.63	106.63
MH-60	TY "PB" MANHOLE	134+27, 50.0' RT	115.84	106.87	106.87	106.87	105.08	105.08
# MH-1A	TY "PB" MANHOLE	134+40, 50.0' RT	115.81	106.86	106.86	106.86		106.86
A3	TY "PCU" INLET W/1-EXT (LT)	135+00, 50.5' RT	115.77	107.08	107.08	107.08	110.48	
A4	TY "PCU" INLET	135+00, 50.5' LT	115.77	110.63			110.63	
EX	TY "PCU" INLET W/1-EXT (LT)	136+40, 50.5' RT	116.36	107.65	107.65	107.65		
A5	TY "PCU" INLET	138+00, 50.5' RT	117.15	108.30	108.30	108.30	111.10	
A6	TY "PCU" INLET	138+00, 50.5' LT	117.15	111.24			111.24	
A7	TY "PCU" INLET W/2-EXT	140+48, 50.5' RT	117.81	109.32	109.32	109.32	111.82	
A8	TY "PCU" INLET W/1-EXT (RT)	140+48, 50.5' LT	117.81	113.62			113.62	
MH-OA	TY "PB" MANHOLE	143+00, 53.0' RT	119.20	110.36	110.36	110.36		



03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
* 400	3918.3		CY	STRUCTURAL EXCAVATION
400	635		CY	SAND BACKFILL
402	343.8		CY	CEMENT BACKFILL
464	1671.2		LF	TRENCH PROTECTION
464	192.6		LF	18" RCP (CL III) (SPL)
464	192.6		LF	24" RCP (CL III) (SPL)
464	730.0		LF	36" RCP (CL III) (SPL)
464	344.7		LF	42" RCP (CL III) (SPL)
465	143.3		LF	54" RCP (CL III) (SPL)
465	3		EA	PCU INLET
465	5		EA	PCU INLET 1-EXT
465	1		EA	PCU INLET 2-EXT
465	3		EA	PB MANHOLE
496	870		LF	REMOVE STR (PIPE)

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



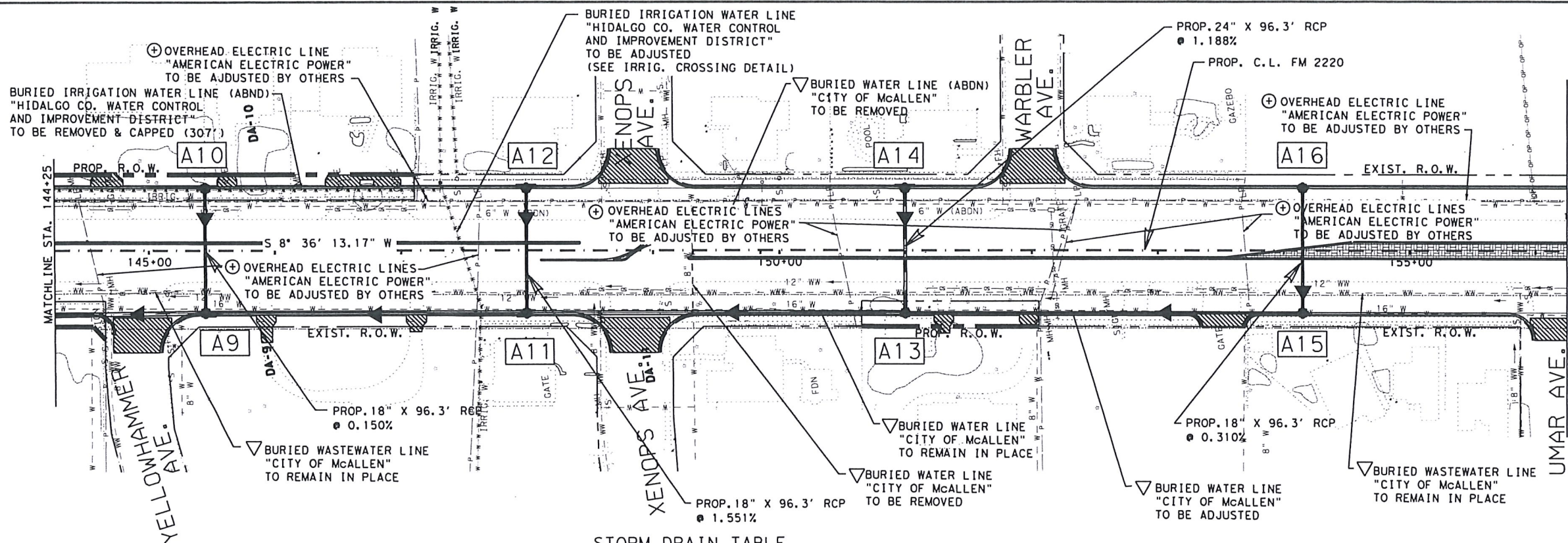
LEGEND:
--- EXIST. N.G. @ TRUNKLINE
--- PROP. GUTTER

GENERAL NOTES:
1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

PLAN 1" = 100' PROFILE 1" = 10'

Texas Department of Transportation
FM 220
UTILITY & DRAINAGE
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T:\ENGDATA\FM2220\UDs\FM2220\UD#.DGN
PROJECT NO. SHEET 2 OF 10 SHEETS SHEET NO. 205
STP1602 (275)MM
FED. RD. DIST. NO. STATE DIST. COUNTY CONT. SECT. JOB HIGHWAY NO.
6 TEXAS PHR HIDALGO 2094 01 038 FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN
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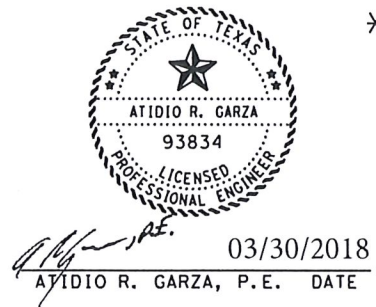
NOTE:
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- ◆ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

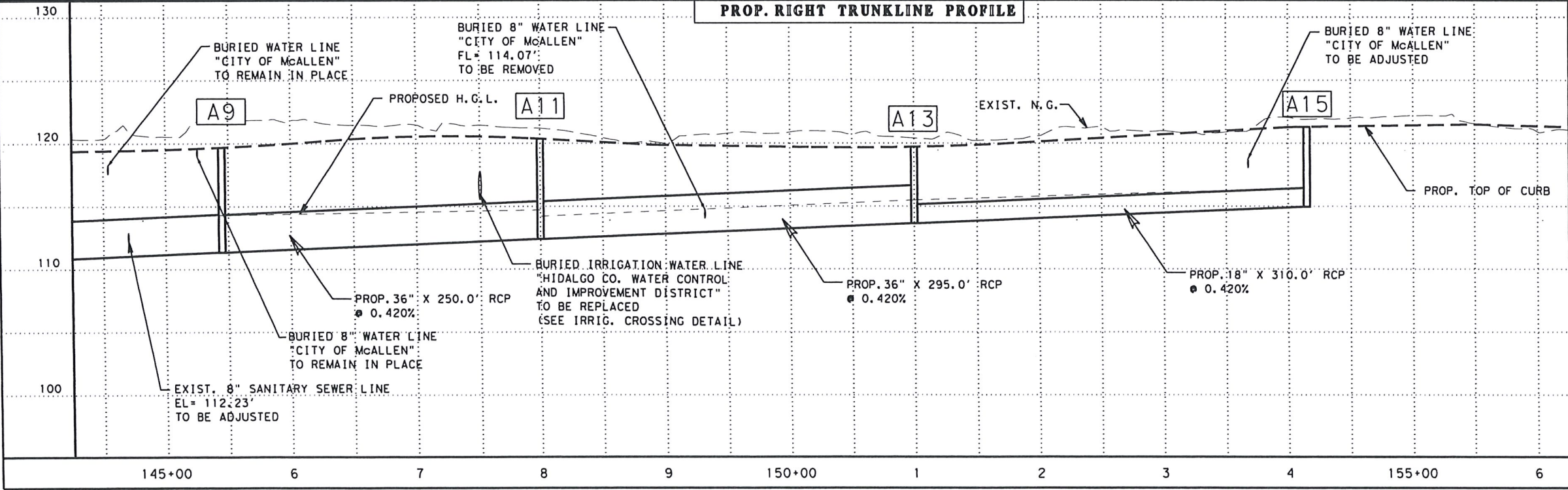
STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	± STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
A9	TY "PCU" INLET W/1-EXT (LT)	145+45, 50.5' RT	119.69	111.36	111.36	111.36	115.19	
A10	TY "PCU" INLET	145+45, 50.5' LT	119.69	115.33			115.33	
A11	TY "PCU" INLET W/1-EXT (LT)	148+00, 50.5' RT	120.37	112.41	112.41	112.41	114.00	
A12	TY "PCU" INLET W/2-EXT	148+00, 50.5' LT	120.37	115.49			115.49	
A13	TY "PCU" INLET W/2-EXT	151+00, 50.5' RT	119.72	113.65	113.65	113.65	114.15	
A14	TY "PCU" INLET W/2-EXT	151+00, 50.5' LT	119.72	115.30			115.30	
A15	TY "PCU" INLET	154+15, 50.5' RT	121.31	114.96	114.96	114.96	115.24	
A16	TY "PCU" INLET	154+15, 50.5' LT	121.31	115.24			115.24	

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
 † SEE INLET DETAILS FOR OFFSET DESCRIPTION.



SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
400	1695.2		CY	STRUCTURAL EXCAVATION
400	418.9		CY	SAND BACKFILL
400	136.7		CY	CEMENT BACKFILL
402	1280.2		LF	TRENCH PROTECTION
464	598.9		LF	18" RCP (CL III) (SPL)
464	96.3		LF	24" RCP (CL III) (SPL)
464	545.0		LF	36" RCP (CL III) (SPL)
465	3		EA	PCU INLET
465	2		EA	PCU INLET 1-EXT
465	3		EA	PCU INLET 2-EXT
496	307		LF	REMOVE STR (PIPE)



LEGEND:
 --- EXIST. N.G. @ TRUNKLINE
 --- PROP. GUTTER

GENERAL NOTES:
 1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

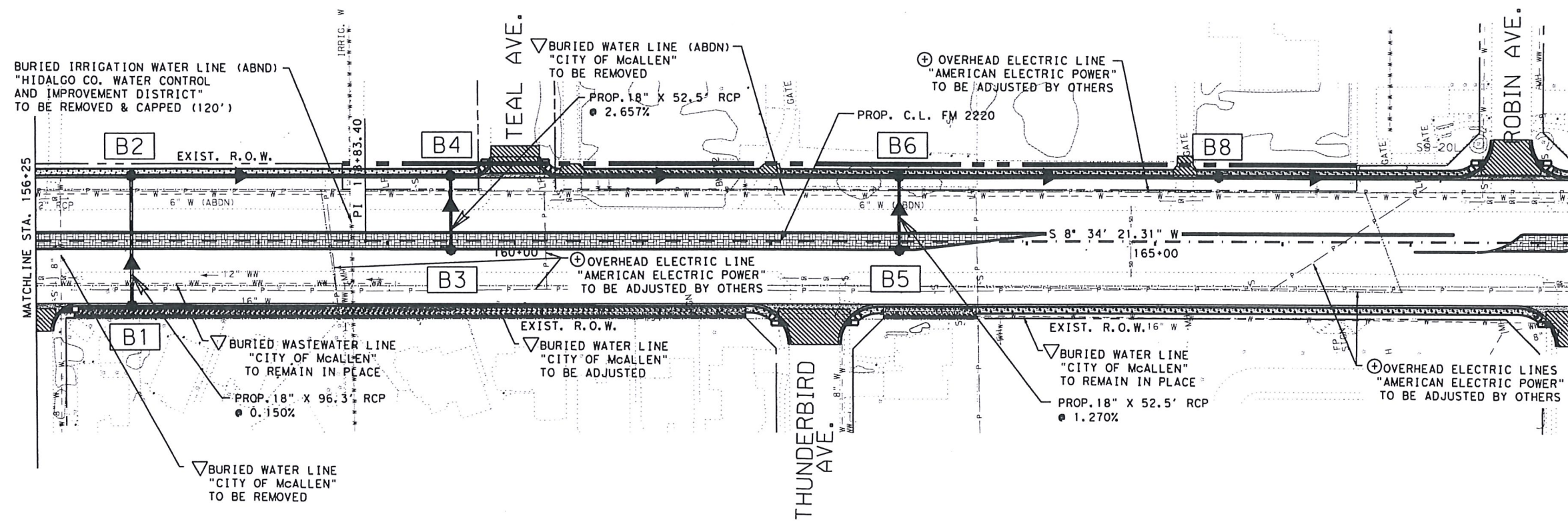
PLAN 1" = 100' PROFILE 1" = 10'

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PROJECT NO.	SHEET 3 OF 10 SHEETS						
STP1602(275)MM	206						
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.
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- ◆ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

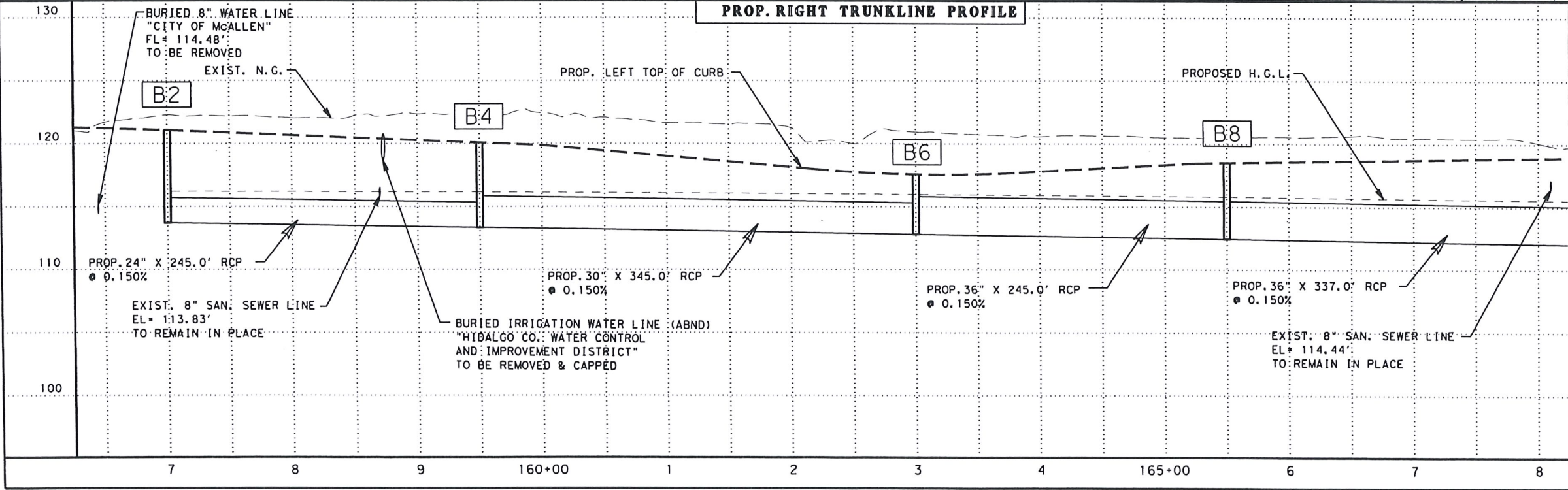
STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	‡ STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
B1	TY "PCU" INLET	157+00, 50.5' RT	121.09	118.36				
B2	TY "PCU" INLET	157+00, 50.5' LT	121.09	113.72		113.72	118.36	118.22
B3	TY "PCU" INLET W/1-EXT (LT)	159+50, 7.0' RT	121.53	115.50			115.50	
B4	TY "PCU" INLET	159+50, 50.5' LT	120.09	113.36	113.36	113.36		114.11
B5	TY "PCU" INLET W/2-EXT	163+00, 7.0' RT	119.02	113.50			113.50	
B6	TY "PCU" INLET W/1-EXT (LT)	163+00, 50.5' LT	117.57	112.83	112.83	112.83		112.83
B8	TY "PCU" INLET W/1-EXT (RT)	165+50, 50.5' LT	118.53	112.47	112.47	112.47		

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
‡ SEE INLET DETAILS FOR OFFSET DESCRIPTION.



SHEET TOTALS			
ITEM	EST.	FINAL	UNIT DESCRIPTION
* 400	1998.2		CY STRUCTURAL EXCAVATION
400	610.9		CY SAND BACKFILL
400	68.4		CY CEMENT BACKFILL
402	1408.3		LF TRENCH PROTECTION
464	201.3		LF 18" RCP (CL III) (SPL)
464	245.0		LF 24" RCP (CL III) (SPL)
464	345.0		LF 30" RCP (CL III) (SPL)
464	582.0		LF 36" RCP (CL III) (SPL)
464	3		EA PCU INLET
464	3		EA PCU INLET 1-EXT
464	1		EA PCU INLET 2-EXT
496	120		LF REMOVE STR (PIPE)



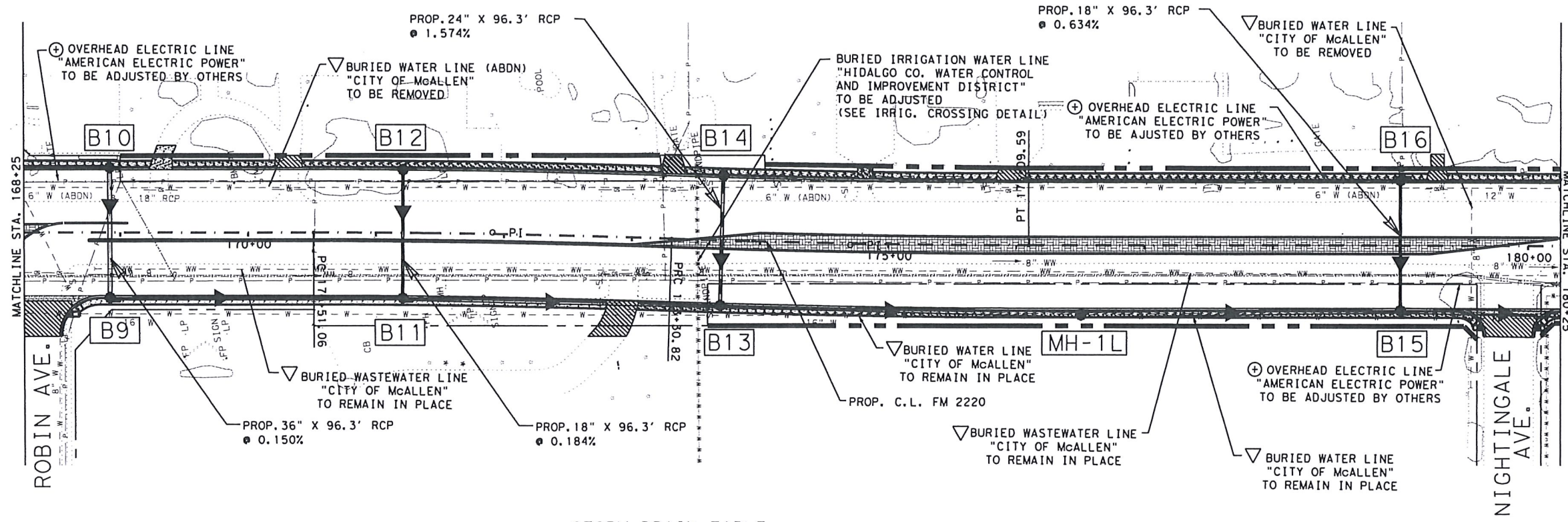
- LEGEND:**
--- EXIST. N.G. @ TRUNKLINE
--- PROP. GUTTER
- GENERAL NOTES:**
1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
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PLAN 1" = 100' PROFILE 1" = 10'

Texas Department of Transportation
FM 220
UTILITY & DRAINAGE
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T:\ENGDATA\FM2220\U&D\FM2220\UD#.DGN
PROJECT NO. SHEET 4 OF 10 SHEETS SHEET NO. 207
STP1602 (275)MM
STATE DIST. COUNTY CONT. SECT. JOB HIGHWAY NO.
6 TEXAS PHR HIDALGO 2094 01 038 FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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NOTE:
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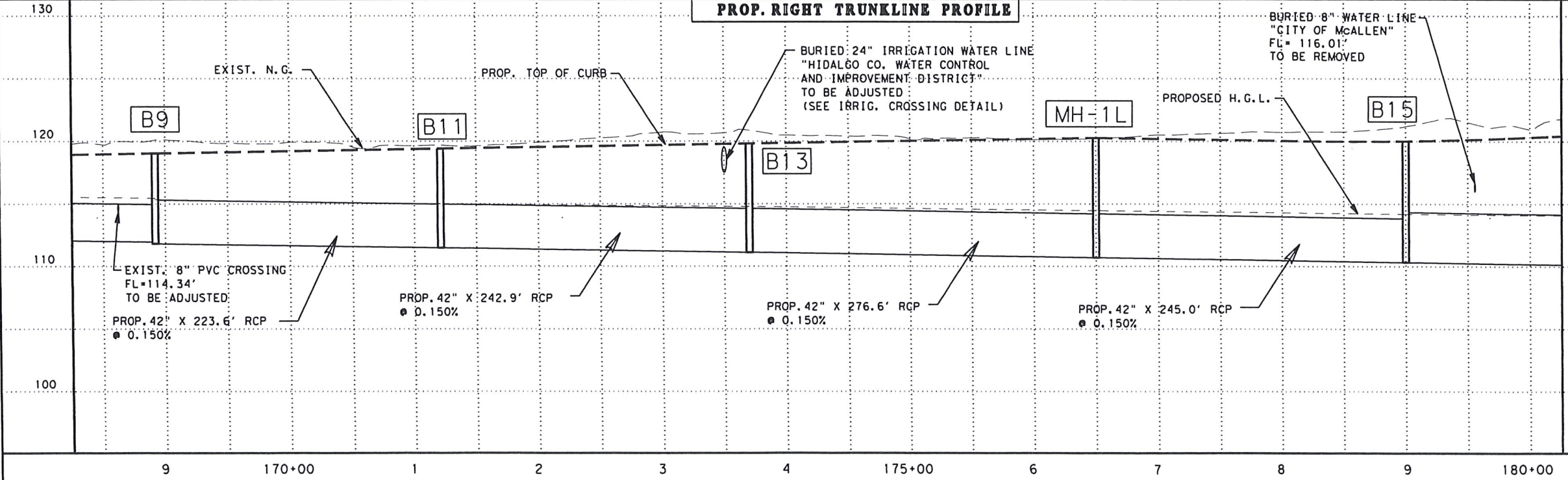
STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	± STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
B9	TY "PCU" INLET W/1-EXT (LT)	168+92, 50.5' RT	119.04	111.82		111.82	111.82	
B10	TY "PCU" INLET	168+92, 50.5' LT	119.04	111.96	111.96			111.96
B11	TY "PCU" INLET W/1-EXT (LT)	171+21, 50.5' RT	119.41	111.48	111.48	111.48	114.72	114.90
B12	TY "PCU" INLET	171+21, 50.5' LT	119.41	114.90				114.90
B13	TY "PCU" INLET	173+70, 50.5' RT	119.81	111.12	111.12	111.12	114.00	
B14	TY "PCU" INLET	173+70, 50.5' LT	119.81	115.52				115.52
MH-1L	TY "PB" MANHOLE	176+50, 54.0' RT	120.27	110.71	110.71	110.71		
B15	TY "PCU" INLET W/1-EXT (LT)	179+00, 50.5' RT	120.02	110.34	110.34	110.34	114.50	
B16	TY "PCU" INLET W/1-EXT (RT)	179+00, 50.5' LT	120.02	115.11				115.11

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
± SEE INLET DETAILS FOR OFFSET DESCRIPTION.

STATE OF TEXAS
ATIDIO R. GARZA
93834
LICENSED PROFESSIONAL ENGINEER
03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS			
ITEM	EST.	FINAL	UNIT DESCRIPTION
* 400	2613.6		CY STRUCTURAL EXCAVATION
400	680.8		CY SAND BACKFILL
400	155.7		CY CEMENT BACKFILL
402	1418.3		LF TRENCH PROTECTION
464	192.6		LF 18" RCP (CL III) (SPL)
464	96.3		LF 24" RCP (CL III) (SPL)
464	96.3		LF 36" RCP (CL III) (SPL)
464	988.1		LF 42" RCP (CL III) (SPL)
465	4		EA PCU INLET
465	4		EA PCU INLET W/1-EXT
465	1		EA PB MANHOLE



LEGEND:
--- EXIST. N.G. @ TRUNKLINE
--- PROP. GUTTER

GENERAL NOTES:
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PROJECT NO. SHEET 5 OF 10 SHEETS

STP1602(275)MM SHEET NO. 208

FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

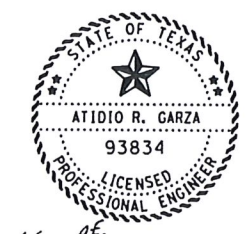
REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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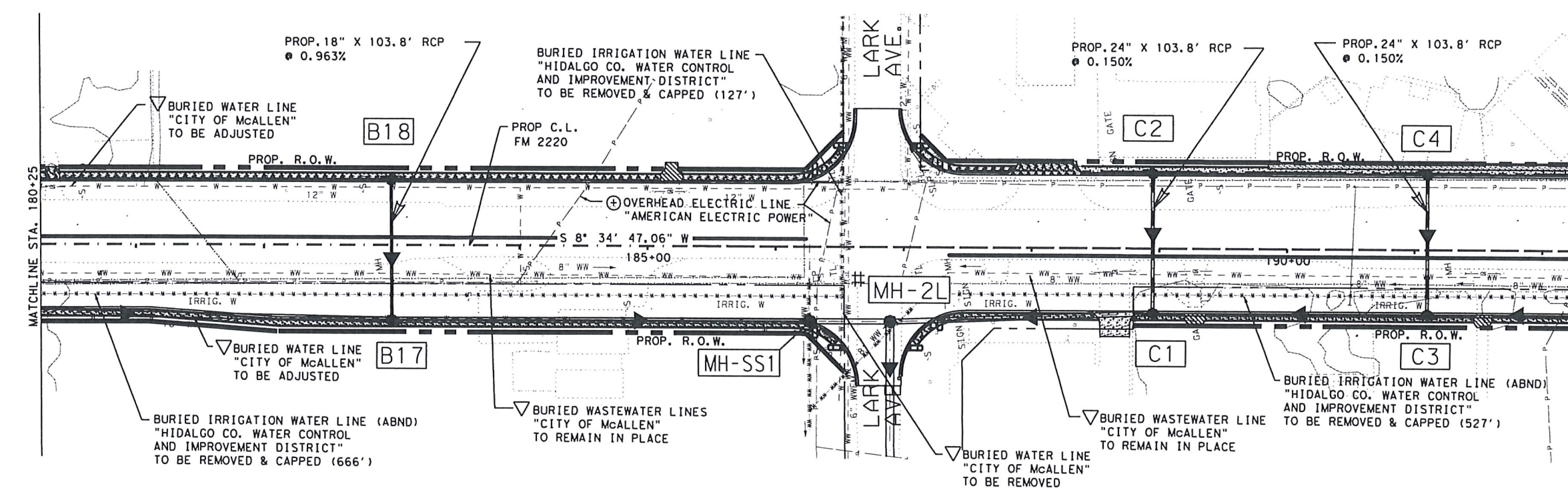
NOTE:
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- # SEE OUTFALL DETAILS
- ◊ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
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- * FOR CONTRACTOR'S INFORMATION ONLY

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
* 400	4853		CY	STRUCTURAL EXCAVATION
400	1269.9		CY	SAND BACKFILL
400	226.6		CY	CEMENT BACKFILL
402	1729.6		LF	TRENCH PROTECTION
464	103.8		LF	18" RCP (CL III) (SPL)
464	207.6		LF	24" RCP (CL III) (SPL)
464	405.0		LF	42" RCP (CL III) (SPL)
464	973.2		LF	48" RCP (CL III) (SPL)
465	1		EA	PCU INLET
465	3		EA	PCU INLET 1-EXT
465	2		EA	PCU INLET 2-EXT
465	1		EA	PB MANHOLE
496	1320		LF	REMOVE STR (PIPE)



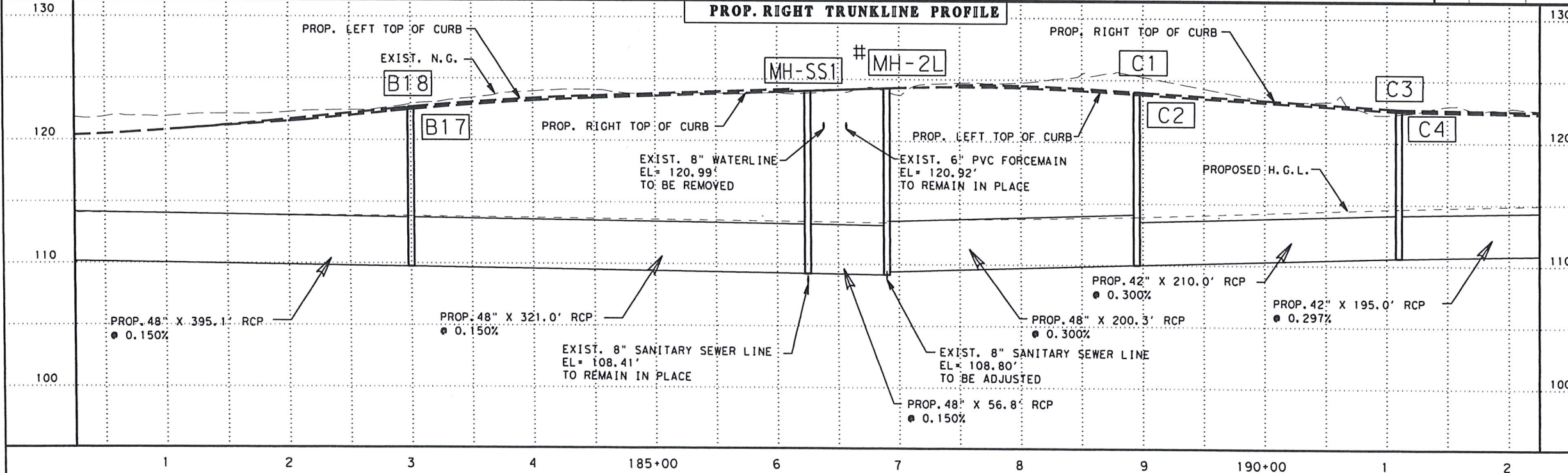
03/30/2018
ATIDIO R. GARZA, P.E. DATE



STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
B17	TY "PCU" INLET W/1-EXT (LT)	183+00, 58.0' RT	122.49	109.75	109.75	109.75	117.50	
B18	TY "PCU" INLET W/2-EXT	183+00, 50.5' LT	122.68	118.50			118.50	
MH-SS1	TY "PB" MANHOLE	186+27, 58.0' RT	124.07	109.26	109.26	109.26		
# MH-2L	TY "PB" MANHOLE	186+89, 58.0' RT	124.29	109.17	109.17	109.42	109.17	
C1	TY "PCU" INLET	188+95, 50.5' RT	124.05	110.02	110.02	110.02	117.84	
C2	TY "PCU" INLET W/1-EXT (LT)	188+95, 58.0' LT	123.86	118.00			118.00	
C3	TY "PCU" INLET W/2-EXT	191+10, 50.5' RT	122.73	110.65	110.65	110.65	116.71	
C4	TY "PCU" INLET W/1-EXT (LT)	191+10, 58.0' LT	122.54	116.87			116.87	

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



- LEGEND:**
- EXIST. N.G. @ TRUNKLINE
 - PROP. GUTTER
- GENERAL NOTES:**
- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 - THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

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Texas Department of Transportation
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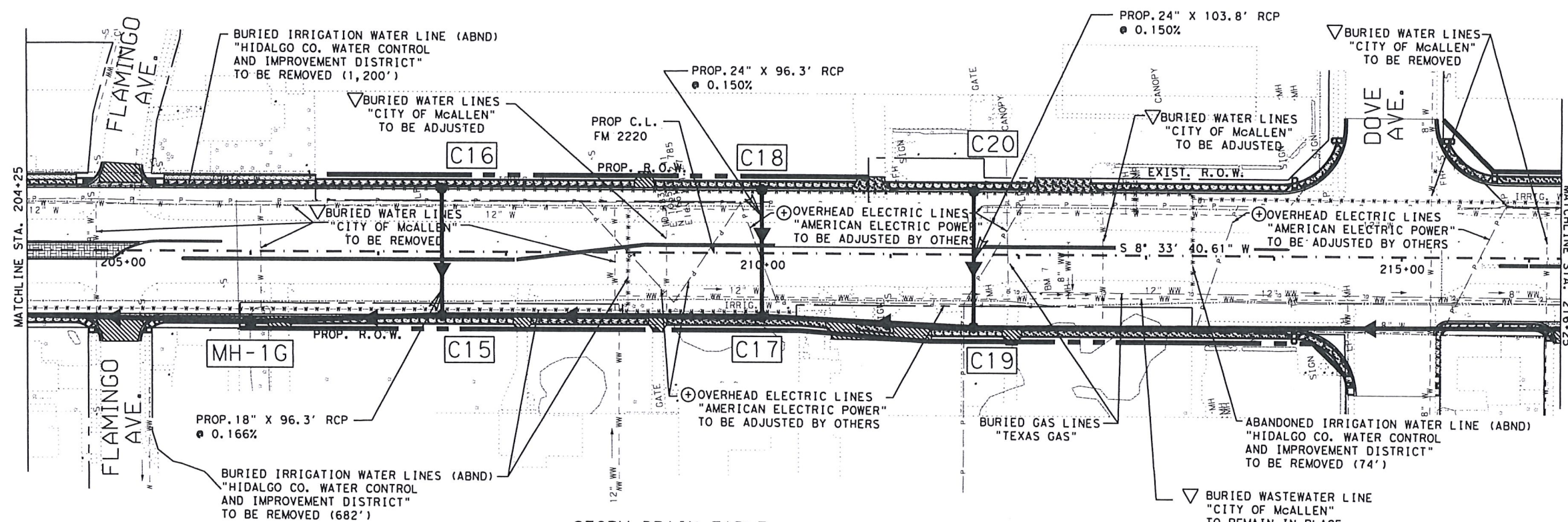
PROJECT NO.	SHEET 6 OF 10 SHEETS	SHEET NO.					
STP1602 (275)MM		209					
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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NOTE:
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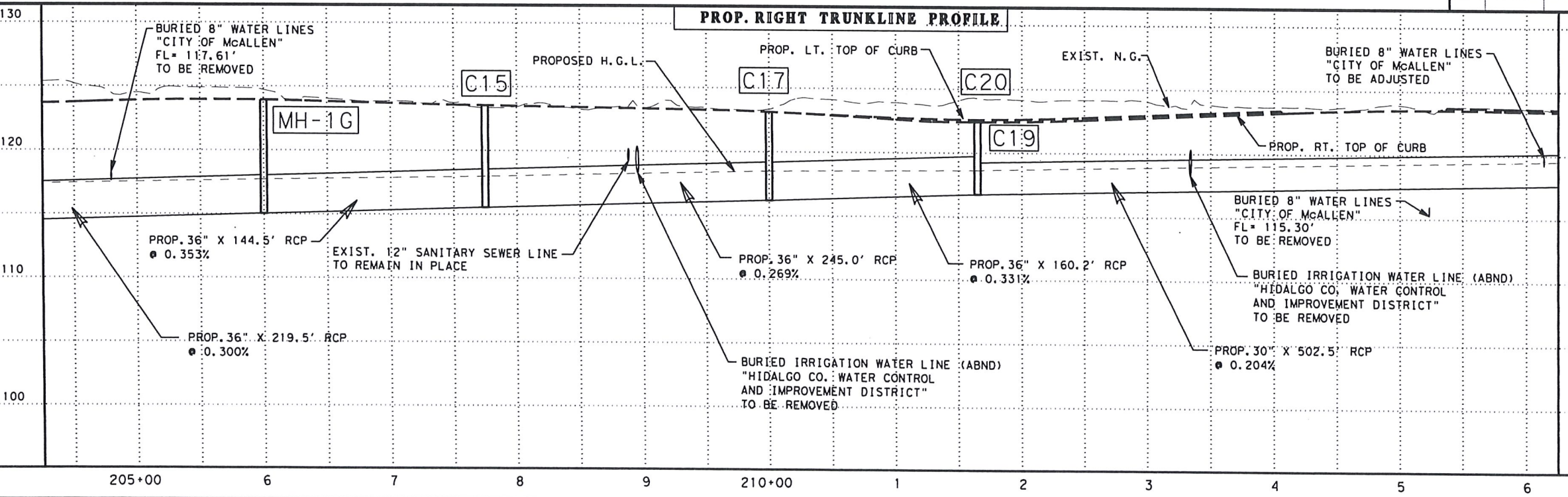
STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	± STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-1G	TY "PB" MANHOLE	206+00, 54.0' RT	123.94	115.04	115.04	115.04		
C15	TY "PCU" INLET	207+75, 50.5' RT	123.54	115.55	115.55	115.55	119.34	
C16	TY "PCU" INLET	207+75, 50.5' LT	123.54	119.50				119.50
C17	TY "PCU" INLET W/1-EXT (RT)	210+00, 50.5' RT	123.13	116.21	116.21	116.21	117.88	
C18	TY "PCU" INLET W/2-EXT	210+00, 50.5' LT	123.13	118.02				118.02
C19	TY "PCU" INLET	211+65, 58.0' RT	122.43	116.74	116.74		117.95	
C20	TY "PCU" INLET W/1-EXT (LT)	211+65, 50.5' LT	122.61	118.11				118.11

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
± SEE INLET DETAILS FOR OFFSET DESCRIPTION.

STATE OF TEXAS
ATIDIO R. GARZA
93834
LICENSED PROFESSIONAL ENGINEER
03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS			
ITEM	EST.	FINAL	UNIT DESCRIPTION
* 400	2299.1		CY STRUCTURAL EXCAVATION
400	748.9		CY SAND BACKFILL
400	116.4		CY CEMENT BACKFILL
402	1271.7		LF TRENCH PROTECTION
464	96.3		LF 18" RCP (CL III) (SPL)
464	200.1		LF 24" RCP (CL III) (SPL)
464	502.5		LF 30" RCP (CL III) (SPL)
464	769.2		LF 36" RCP (CL III) (SPL)
465	3		EA PCU INLET
465	2		EA PCU INLET W/1-EXT
465	1		EA PCU INLET W/2-EXT
465	1		EA PB MANHOLE
496	1956		LF REMOVE STR (PIPE)



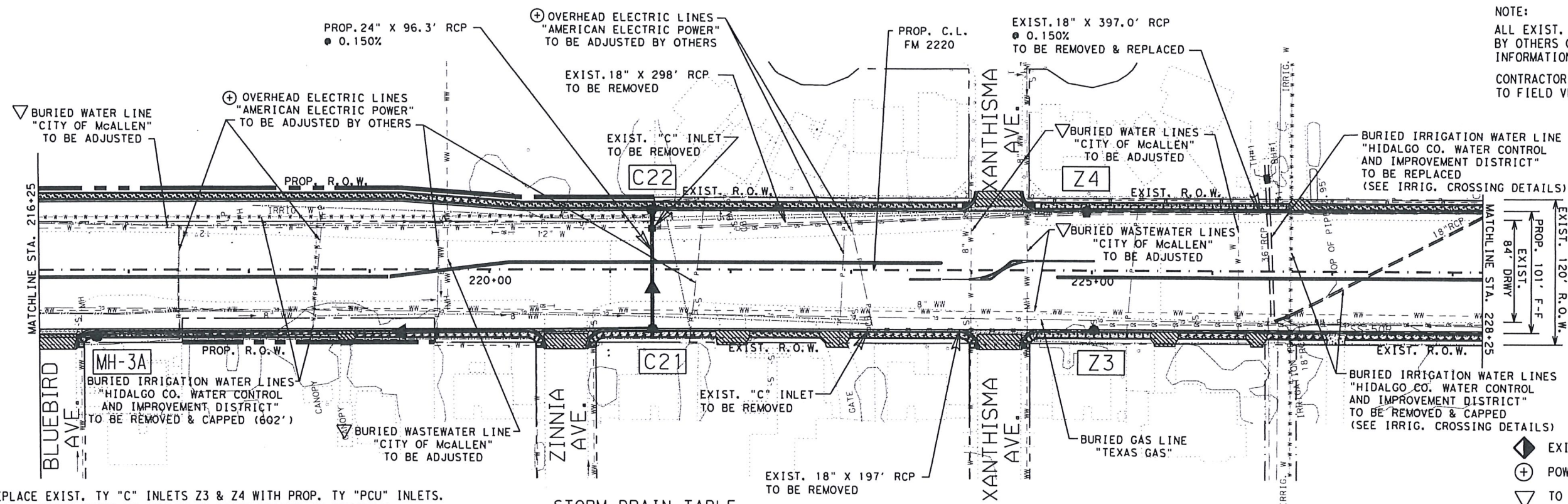
- LEGEND:**
- EXIST. N.G. @ TRUNKLINE
 - PROP. GUTTER
- GENERAL NOTES:**
- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 - THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

PLAN 1" = 100' PROFILE 1" = 10'

Texas Department of Transportation
FM 220
UTILITY & DRAINAGE

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PROJECT NO.	SHEET 8 OF 10 SHEETS	SHEET NO.					
STP1602(275)MM		211					
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220



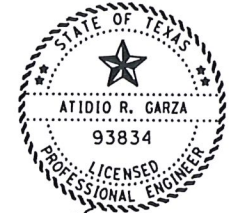
NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.
CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

REPLACE EXIST. TY "C" INLETS Z3 & Z4 WITH PROP. TY "PCU" INLETS.
EXIST. STORM SEWER TO REMAIN IN PLACE UNLESS AS DIRECTED.

STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	± STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-3A	TY "PB" MANHOLE	216+73.0, 56.0' LT	123.52	117.76	117.76	117.76		
C21	TY "PCU" INLET W/2-EXT	221+35.0, 50.5' RT	122.59	119.00	119.00		119.00	
C22	TY "PCU" INLET W/2-EXT	221+35.0, 50.5' LT	122.59	119.15				119.15
Z3	TY "PCU" INLET	225+01.6, 50.5' RT	122.58	120.66	120.66	120.66		
Z4	TY "PCU" INLET	224+95.8, 50.5' LT	122.57	118.35	118.35	118.35		

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
± SEE INLET DETAILS FOR OFFSET DESCRIPTION.



03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
400	817.9		CY	STRUCTURAL EXCAVATION
400	350.0		CY	SAND BACKFILL
400	40.7		CY	CEMENT BACKFILL
402	959.8		LF	TRENCH PROTECTION
464	397.0		LF	18" RCP (CL III) (SPL)
464	96.3		LF	24" RCP (CL III) (SPL)
464	456.5		LF	30" RCP (CL III) (SPL)
465	2		EA	PCU INLET
465	2		EA	PCU INLET W/2-EXT
465	1		EA	PB MANHOLE
496	4		EA	REMOVE STR. (INLET)
496	1494		LF	REMOVE STR. (PIPE)

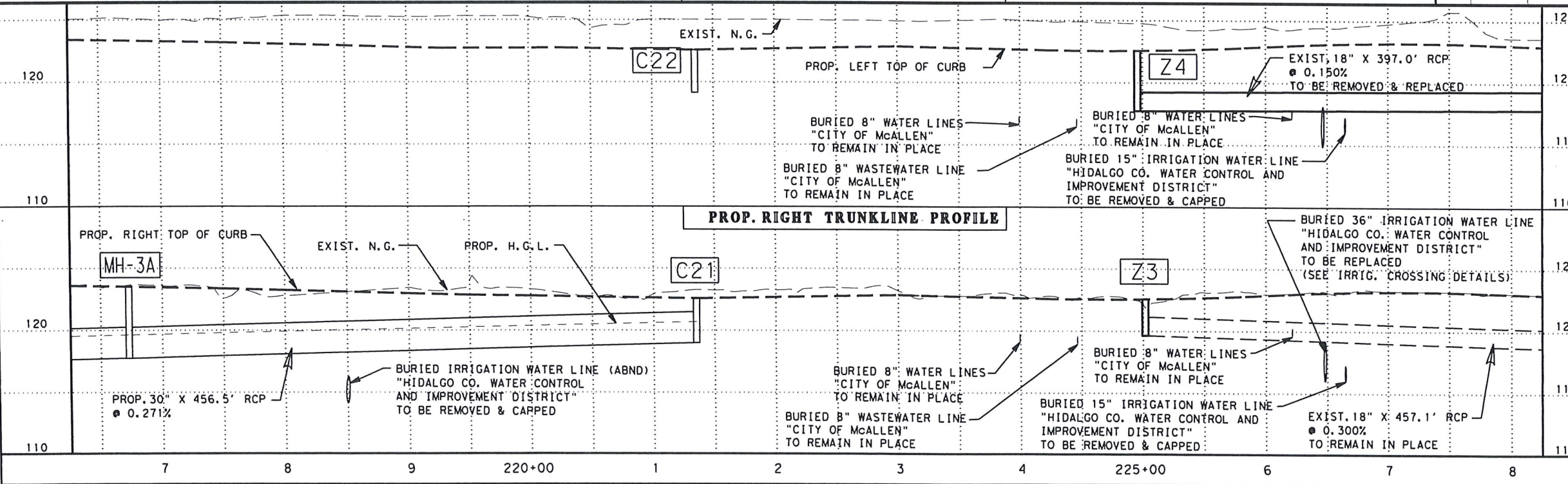
LEGEND:
--- EXIST. N.G. @ TRUNKLINE
--- PROP. GUTTER

GENERAL NOTES:
1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

PLAN 1" = 100' PROFILE 1" = 10'

Texas Department of Transportation
FM 220
UTILITY & DRAINAGE

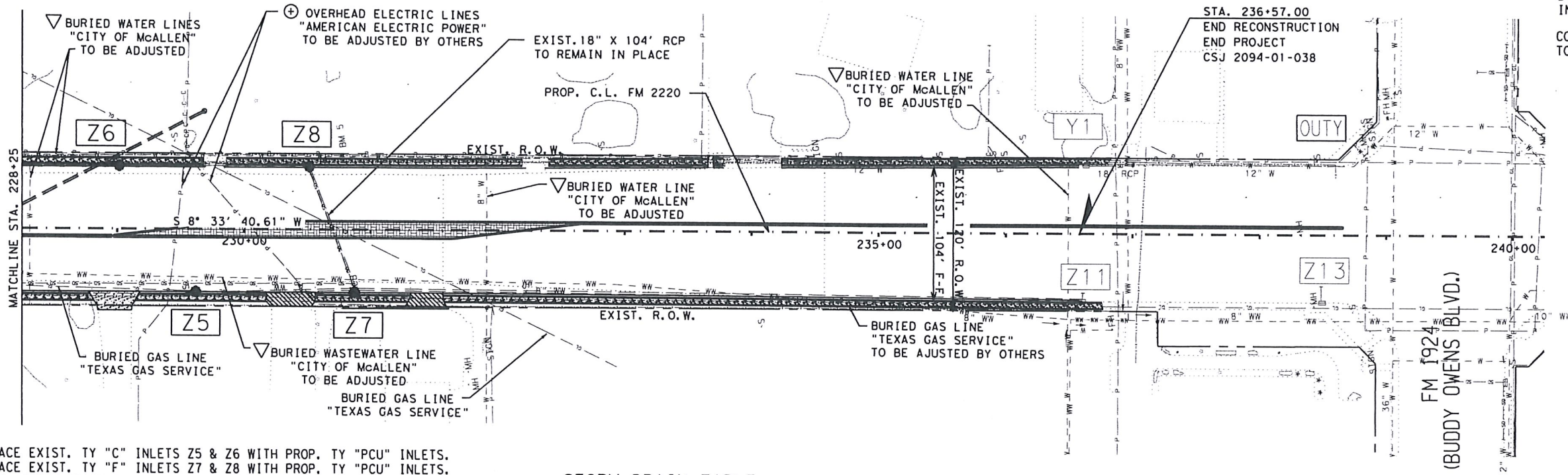
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PROJECT NO. SHEET 9 OF 10 SHEETS
STP1602 (275)MM SHEET NO. 212
FED. RD. DIST. STATE DIST. COUNTY CONT. SECT. JOB HIGHWAY NO.
6 TEXAS PHR HIDALGO 2094 01 038 FM 2220



REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.
CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

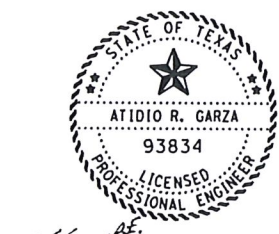


REPLACE EXIST. TY "C" INLETS Z5 & Z6 WITH PROP. TY "PCU" INLETS.
REPLACE EXIST. TY "F" INLETS Z7 & Z8 WITH PROP. TY "PCU" INLETS.
EXIST. STORM SEWER TO REMAIN IN PLACE.

STORM DRAIN TABLE

STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
Z5	TY "PCU" INLET	229+62.2, 50.5' RT	122.44	118.27	118.27	118.27		
Z6	TY "PCU" INLET	229+01.8, 50.5' LT	122.70	117.74	117.74	117.74		
Z7	TY "PCU" INLET	230+87.2, 50.5' RT	121.76	116.38	116.38	116.38	116.38	
Z8	TY "PCU" INLET	230+51.7, 50.5' LT	121.96	117.35	117.35			117.35
Z11	TY "F" INLET W/GRATE	236+60.4, 51.5' RT	120.09	114.61	114.61	114.61		
Z13	TY "F" INLET W/GRATE	238+49.6, 51.5' RT	120.49	113.64	113.64	113.64		
Y1	TY "F" INLET W/GRATE	236+62.9, 51.5' LT	120.09	115.17	115.17			

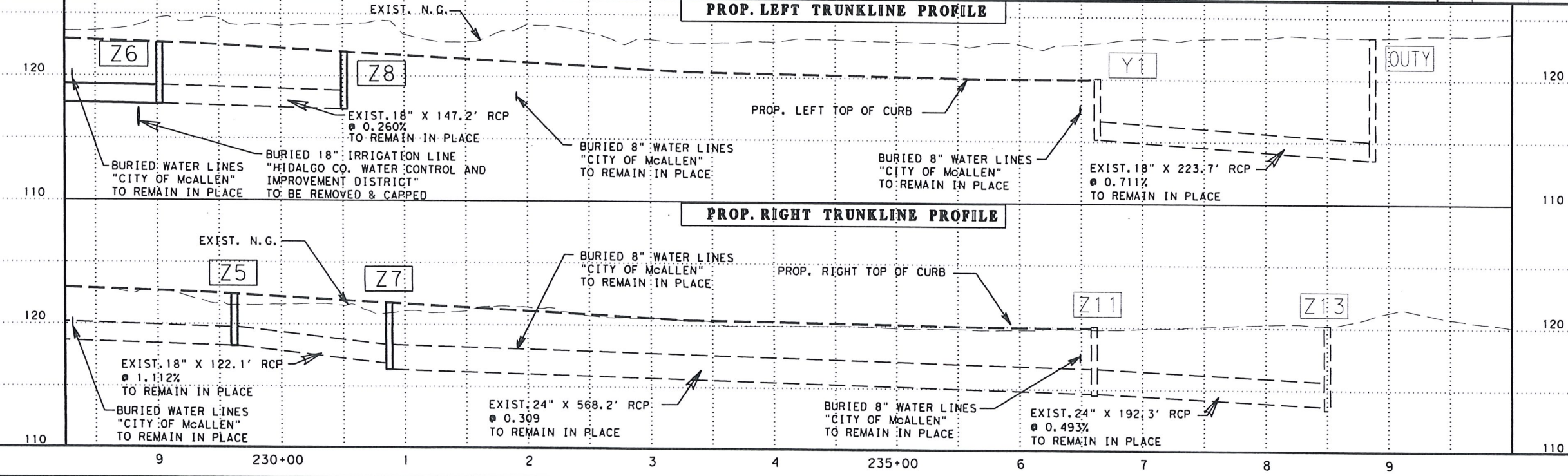
SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



03/30/2018
ATIDIO R. GARZA, P.E. DATE

- ◆ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

ITEM	EST.	FINAL	UNIT	SHEET TOTALS	
				DESCRIPTION	
* 465	4		EA	PCU INLET	
496	4		EA	REMOVE STR (INLET)	



LEGEND:
--- EXIST. N.G. @ TRUNKLINE
--- PROP. GUTTER

GENERAL NOTES:
1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

PLAN 1" = 100' PROFILE 1" = 10'

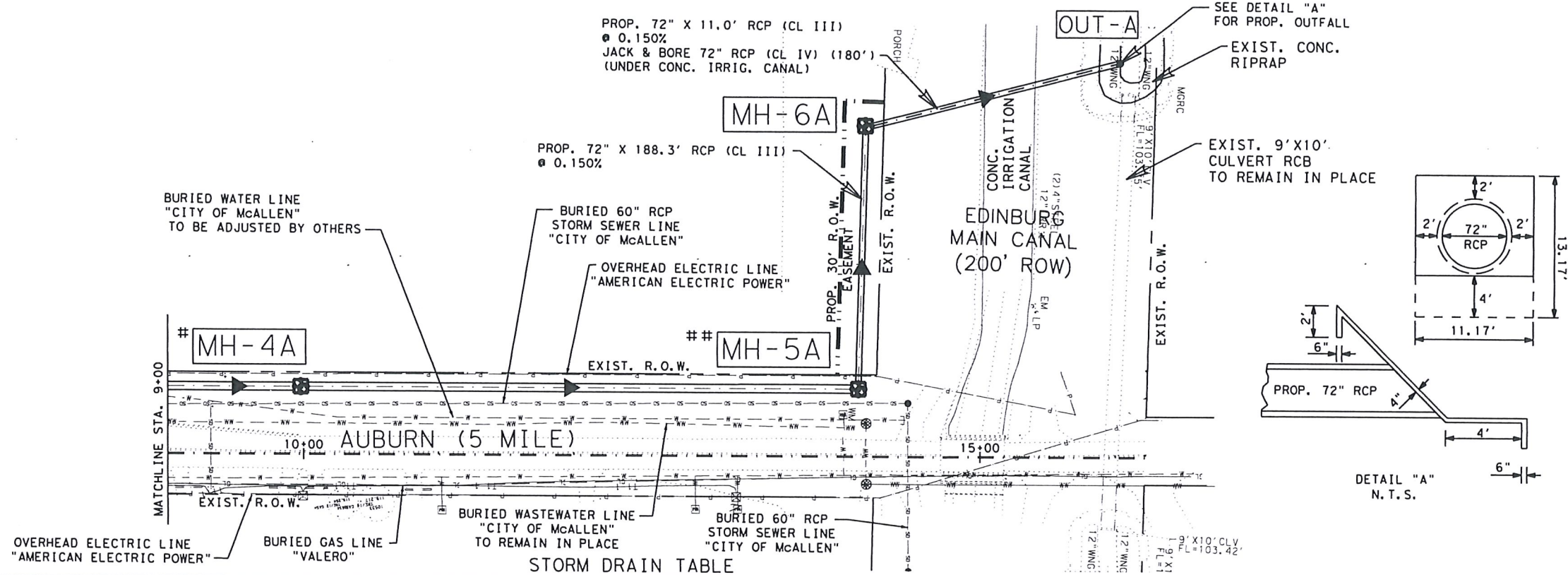
Texas Department of Transportation
**FM 220
UTILITY & DRAINAGE**

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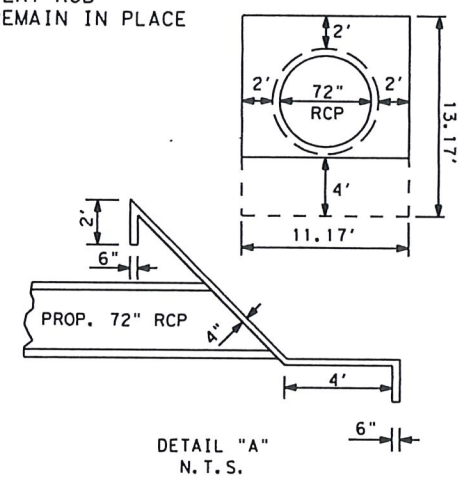
PROJECT NO.	SHEET 10 OF 10 SHEETS	SHEET NO.					
STP1602 (275)MM		213					
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.



CONTRACTOR TO PROVIDE KNOCK-OUT ON SOUTH FACE OF PROPOSED STRUCTURE MH-4A KNOCK-OUT SHALL ACCOMMODATE A FUTURE 24-INCH RCP WITH A FLOWLINE AS INDICATED IN THE STORM DRAIN TABLE. SUBSIDIARY TO BOX.
SEE HYDRAULIC DATA SHEETS

- ◆ EXIST. INLET OR MANHOLE TO BE ADJUSTED (CAP).
- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

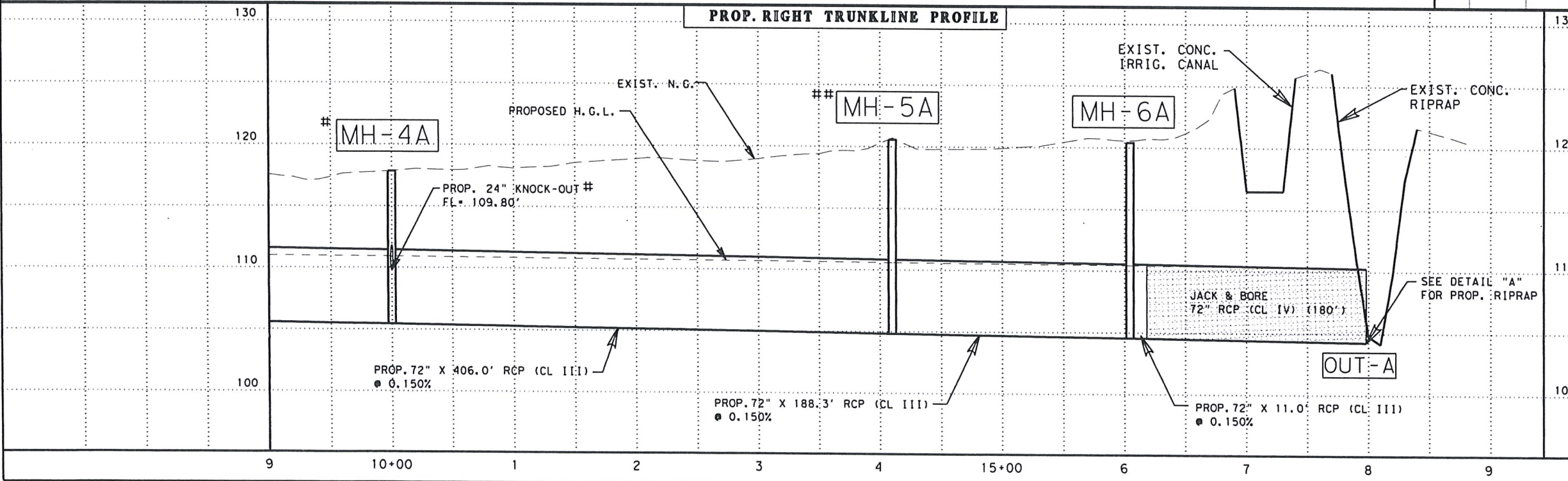
STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-4A	TY "PB" MANHOLE	10+00, 49.5' LT	117.83	105.47		109.80 #	105.47	105.47
MH-5A	TY "PB" MANHOLE	14+10, 49.5' LT	120.57	104.86		104.86	104.86	
MH-6A	TY "PB" MANHOLE	14+15, 242.8' LT	120.41	104.57	104.57			104.57
OUT-A	OUTFALL	16+03, 290.3' LT		104.29				



03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
* 400	5343.2		CY	STRUCTURAL EXCAVATION
400	1690.1		CY	SAND BACKFILL
402	629.3		LF	TRENCH PROTECTION
464	605.3		LF	72" RCP (CL III) (SPL)
464	180.0		LF	72" RCP (CL IV) (SPL)
465	3		EA	PB MANHOLE
476	180		LF	JACK & BORE (72" RCP) (CL IV) (SPL)

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



LEGEND:
 - - - - - EXIST. N.G. @ TRUNKLINE
 - - - - - PROP. GUTTER
GENERAL NOTES:
 1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
 2. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO CONSTRUCTION.

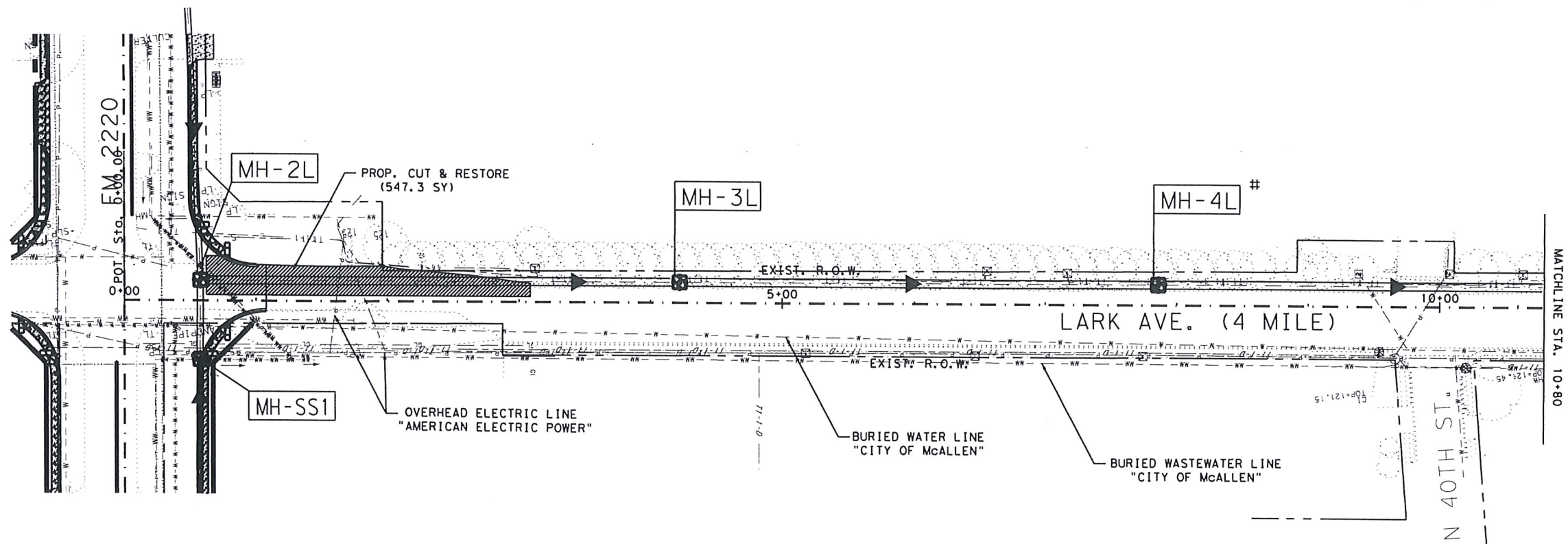
PLAN 1" = 100' PROFILE 1" = 10'

Texas Department of Transportation
FM 220
AUBURN OUTFALL

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PROJECT NO.	SHEET 2 OF 2 SHEETS	SHEET NO.
STP1602 (275)MM		215
STATE	DIST.	COUNTY
6 TEXAS	PHR	HIDALGO
CONT.	SECT.	JOB
2094	01	038 FM 2220

NOTE:
ALL EXIST. UTILITY LINES THAT ARE TO BE ADJUSTED BY OTHERS OR TO REMAIN IN PLACE ARE PROVIDED FOR INFORMATION ONLY.



STORM DRAIN TABLE

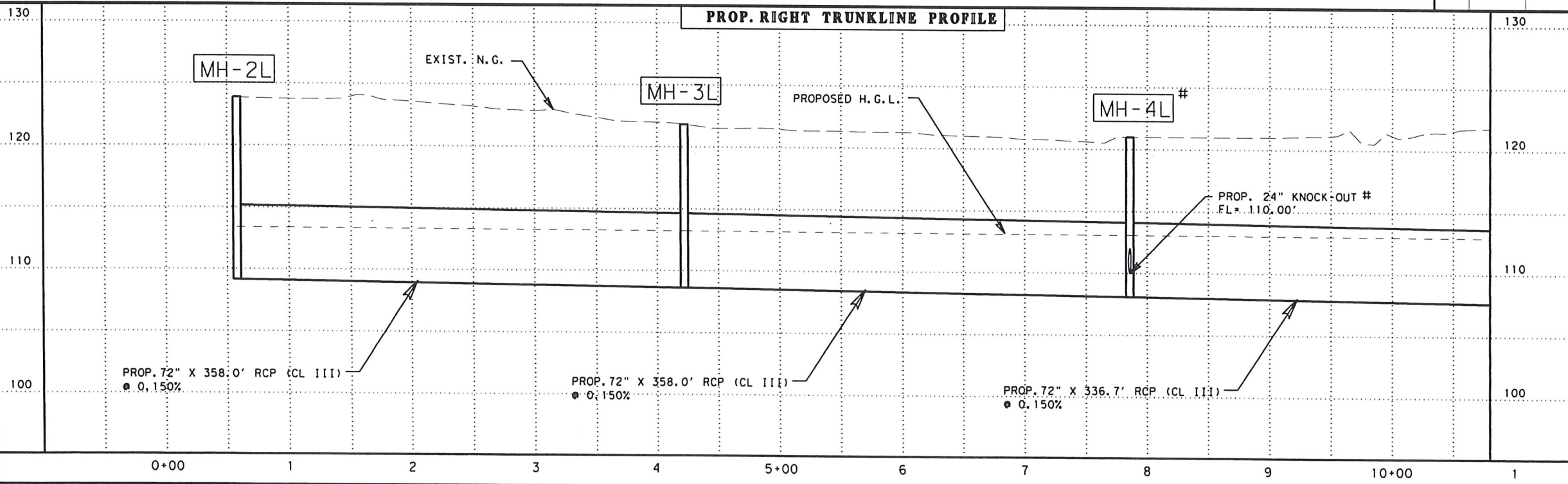
STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-2L	TY "PB" MANHOLE	0+58, 15.5' LT	123.89	109.17	109.17	109.42		109.17
MH-3L	TY "PB" MANHOLE	4+22, 15.5' LT	121.82	108.64			108.64	108.64
MH-4L	TY "PB" MANHOLE	7+86, 15.5' LT	121.00	108.10		110.00 #	108.10	108.10



03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
400	5701.2		CY	STRUCTURAL EXCAVATION
400	1466.3		CY	SAND BACKFILL
400	463.0		CY	CEMENT BACKFILL
400	547.3		SY	CUT & RESTORE
402	1076.7		LF	TRENCH PROTECTION
464	1052.7		LF	72" RCP (CL III) (SPL)
465	3		EA	PB MANHOLE

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



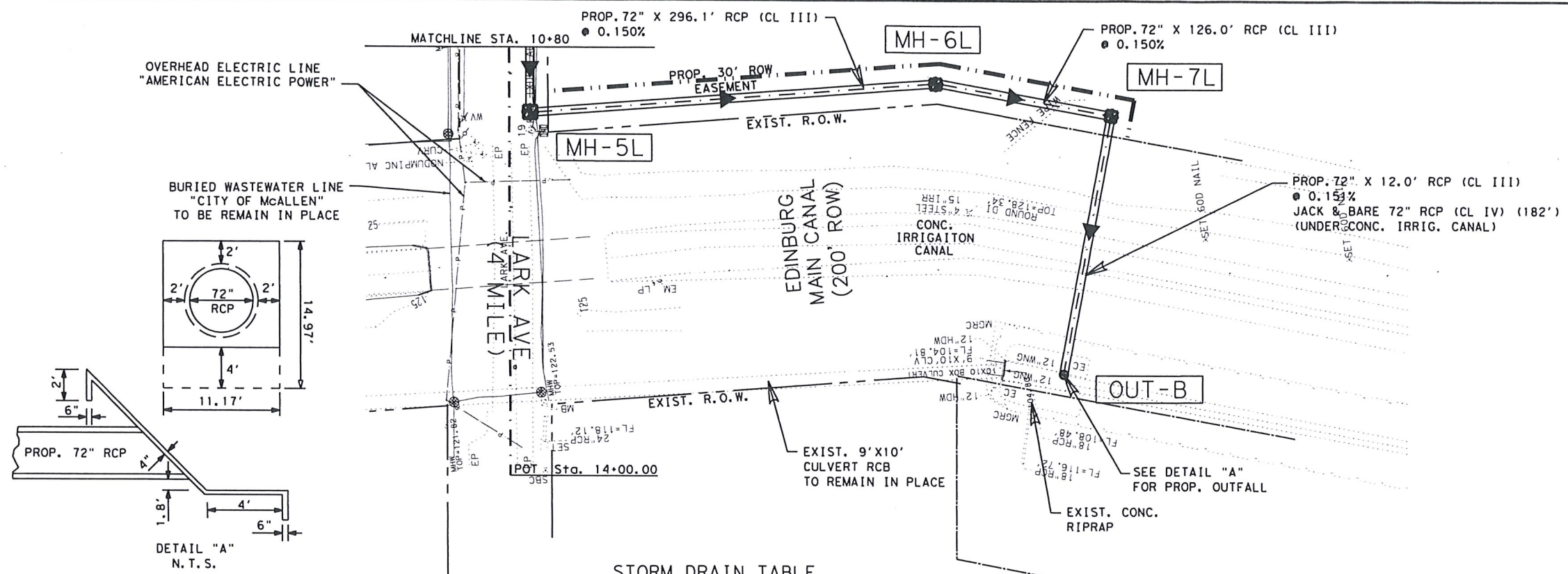
LEGEND:
 --- EXIST. N.G. @ TRUNKLINE
 - - - PROP. CUTTER
GENERAL NOTES:
 1. SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
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 Texas Department of Transportation
FM 220
LARK OUTFALL

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PROJECT NO.			SHEET 1 OF 2 SHEETS		SHEET NO.	
STP1602 (275)MM					216	
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038 FM 2220

REFERENCE FILES: 2220AL.DGN, 960096.DGN, 2220PP00B.DGN

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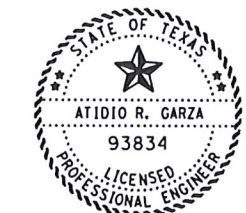
NOTE:
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- ⊕ POWER POLE TO BE RELOCATED BY OTHERS.
- ▽ TO BE REMOVED/ADJUSTED UNDER THIS CONTRACT. SANITARY SEWER MANHOLE RING & COVER TO BE ADJUSTED.
- * FOR CONTRACTOR'S INFORMATION ONLY

STORM DRAIN TABLE

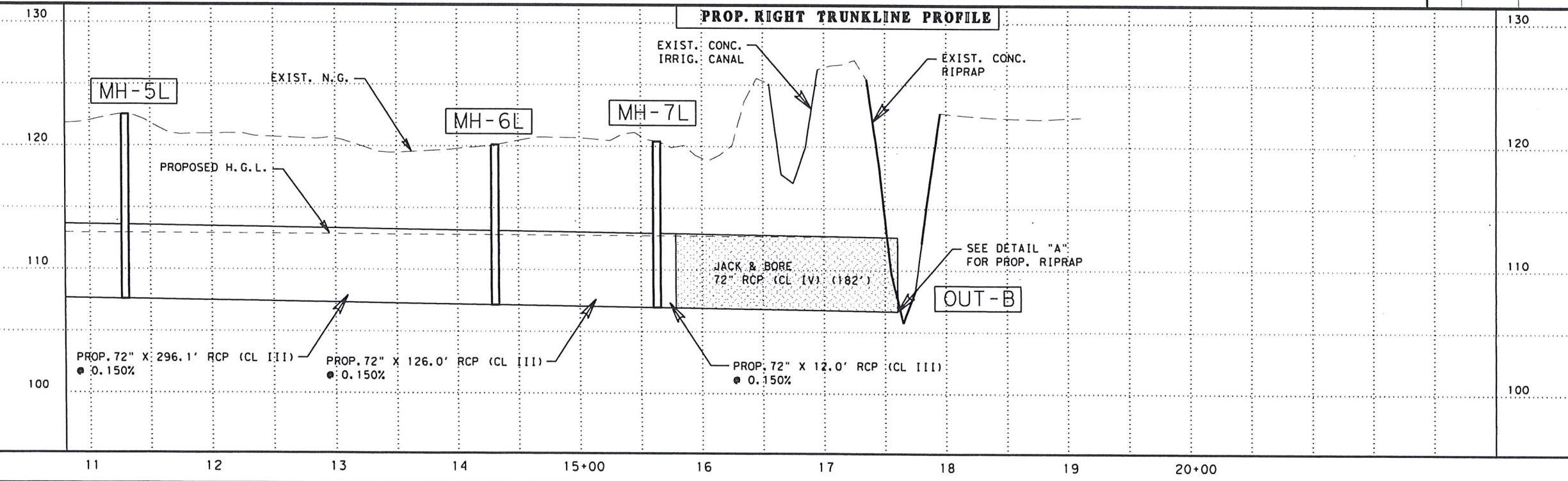
STRUCTURE I.D.	DESCRIPTION	† STATION / OFFSET	TOP OF STR. ELEVATION	PROP. FL. OF STRUCTURE	PROP. FL. OF PIPE (NORTH)	PROP. FL. OF PIPE (SOUTH)	PROP. FL. OF PIPE (EAST)	PROP. FL. OF PIPE (WEST)
MH-5L	TY "PB" MANHOLE	11+29, 15.5' LT	122.53	107.60		107.60	107.60	
MH-6L	TY "PB" MANHOLE	11+07, 318.9' LT	120.11	107.15	107.15	107.15		
MH-7L	TY "PB" MANHOLE	11+30, 450.1' LT	120.40	106.96	106.96			106.96
OUT-B	OUTFALL	13+23, 414.6' LT		106.67				

SEE HYDRAULIC DATA SHEETS FOR ADDITIONAL INFORMATION.
† SEE INLET DETAILS FOR OFFSET DESCRIPTION.



03/30/2018
ATIDIO R. GARZA, P.E. DATE

SHEET TOTALS				
ITEM	EST.	FINAL	UNIT	DESCRIPTION
400	3863		CY	STRUCTURAL EXCAVATION
400	1279.9		CY	SAND BACKFILL
402	860		LF	TRENCH PROTECTION
464	434.1		LF	72" RCP (CL III) (SPL)
464	182.0		LF	72" RCP (CL IV) (SPL)
465	3		EA	PB MANHOLE
476	182		LF	JACK & BORE (72" RCP) (CL IV) (SPL)



- LEGEND:**
- EXIST. N.G. @ TRUNKLINE
 - - - PROP. GUTTER
- GENERAL NOTES:**
- SEE "PROJECT CONTROL DATA SHEET" FOR ALIGNMENT DATA AND "HORIZONTAL & VERTICAL CONTROL SHEETS" FOR BENCHMARK DATA.
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Texas Department of Transportation

FM 220
LARK OUTFALL

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PROJECT NO.	SHEET 2 OF 2 SHEETS	SHEET NO.					
STP1602 (275)MM		217					
FED. RD. DIST. NO.	STATE	DIST.	COUNTY	CONT.	SECT.	JOB	HIGHWAY NO.
6	TEXAS	PHR	HIDALGO	2094	01	038	FM 2220