

HIDALGO COUNTY PRECINCT NO. 1

FEMA ROAD DRAINAGE IMPROVEMENTS WORK AUTHORIZATION No.4

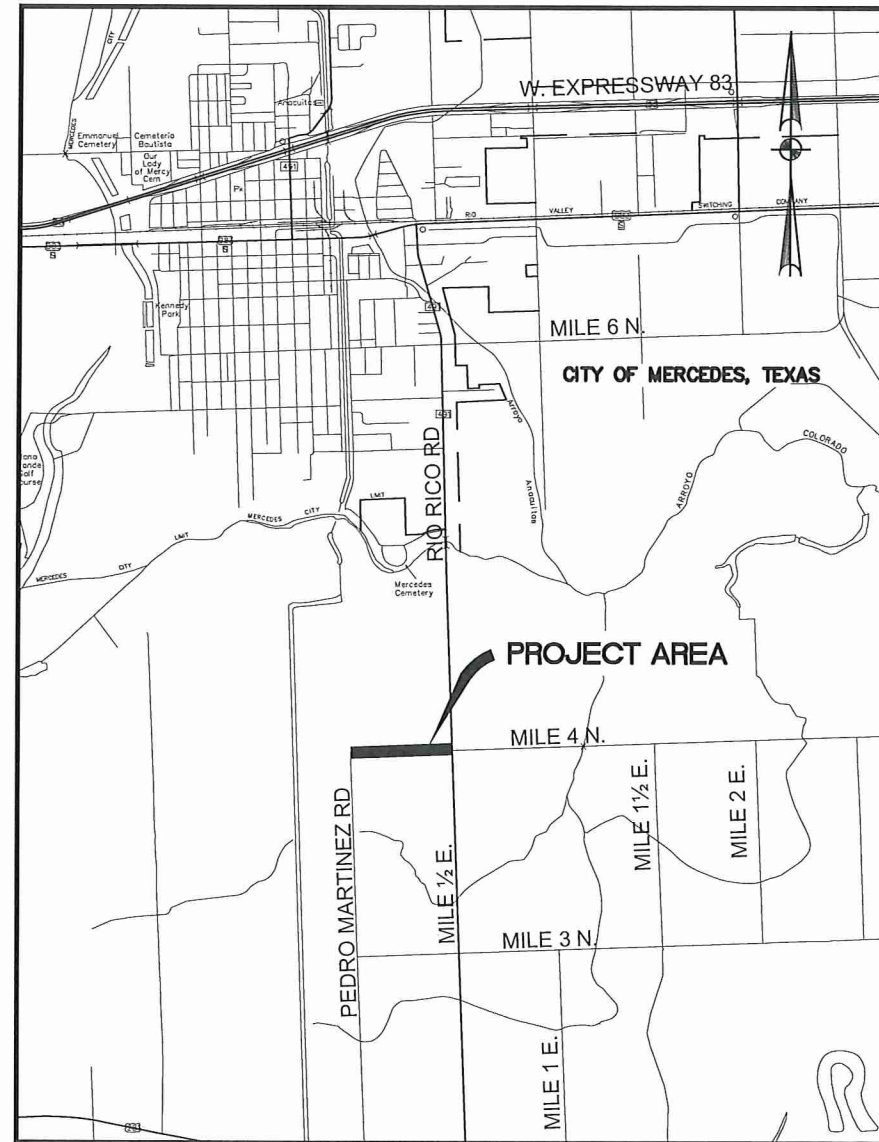
MILE 4 NORTH ROAD (FM 491 AND PEDRO MARTINEZ ROAD)

HIDALGO COUNTY, TEXAS



HIDALGO COUNTY OFFICIALS

RAMON GARCIA _____ COUNTY JUDGE
 A.C. CUELLAR, JR. _____ COMMISSIONER PCT. No. 1
 EDDIE CANTU _____ COMMISSIONER PCT. No. 2
 JOE M. FLORES _____ COMMISSIONER PCT. No. 3
 JOSEPH PALACIOS _____ COMMISSIONER PCT. No. 4



SCALE 1"=5000'

SEPTEMBER 2016

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WESLEY RICHARD LEFEVRE, P.E.

DATE _____

LeFEVRE
ENGINEERING &
MANAGEMENT CONSULTING, LLC.
 Texas Registered Engineering Firm F-11722

612 Nolana, Suite 520
 McAllen, Texas 78504
 Tel. 956.687.LEMC
 Fax. 956.687-5363

Drawn	LH	Date	SEPTEMBER 2016
Checked	ES	Job No.	P-195
Approved	ES	Sheet	1 of 13

GENERAL

- CONTRACTOR SHALL CONTACT LeFEVRE ENGINEERING & MANAGEMENT CONSULTING, LLC (LEMC) AT 956-687-5362, 72 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN PROJECT SITE.
- CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES WITHIN THE CONSTRUCTION AREA 72 HOURS PRIOR TO EXCAVATION NEAR THEIR UTILITIES.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF LeFEVRE ENGINEERING MANAGEMENT CONSULTING, LLC. IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THIS CONSTRUCTION OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK. OWNER'S ENGINEER TO APPLY FOR AND PROVIDE TXDOT PERMIT TO WORK IN R.O.W. AND ANY RELATED CROSSING PERMITS.
- CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
- FLOWLINE ELEVATIONS AT MANHOLES ARE BASED ON DISTANCE BETWEEN MANHOLES AND NOT CENTERLINE RIGHT-OF-WAY STATIONING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES. NATURAL GROUND ADJACENT TO UTILITY TRENCH EXCAVATION TO BE CLEARED AND GRUBBED PRIOR TO PLACEMENT OF EXCESS TRENCH MATERIAL (NO ADDITIONAL PAYMENT - INCLUDE IN COST OF UNDERGROUND UTILITIES CONSTRUCTION.)
- FILL TO BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER ASTM D-698, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
- RETESTING OF ANY TESTING FAILURES WILL BE THE CONTRACTOR'S RESPONSIBILITY. NO SEPARATE PAY
- WHERE CONTRACTOR'S WORK AND/ OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART II OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.D.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION. A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE ENGINEER & OTHER APPROPRIATE PERSONS.
- LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE LINES AND/ OR OBSTRUCTIONS AHEAD OF EXCAVATION.
- ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
- OVERHEAD LINES MAY EXIST ON THE ALIGNMENTS. CLEARLY VISIBLE LINES ARE NOT MARKED, AND CONTRACTOR TO NOTE THEIR LOCATION PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR OBJECTS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
- CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES, IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COSTS OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR, NO SEPARATE PAY.
- CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AT NO SEPARATE PAY.
- SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE AS DIRECTED BY THE ENGINEER. IF THE ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR, AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
- CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
- PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT. ANY REPAIRS TO DAMAGED PAVED SURFACES WILL BE PAID BY THE CONTRACTOR. NO SEPERATE PAY.
- IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AN UPDATED REDLINED "AS-BUILT" SET OF PLANS ON SITE FOR INSPECTION BY THE ENGINEER, THE ENGINEER'S REPRESENTATIVE, AND THE OWNER'S REPRESENTATIVE.
- WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC, GOVERNMENTAL, AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GOVERNING ENTITIES.

GENERAL CONT.

- SURVEY PERFORMED BY RIO DELTA SURVEYOR ELEVATIONS BASED UPON STATIC GPS OBSERVATIONS; NAVD 88 HORIZ: STATE PLANE COORDINATES (NAD83) ZONE SOUTH TEXAS
- DEMOLITION, REMOVAL, & DISPOSAL OF ALL EXCESS CONCRETE, CURBS, REBAR, ETC. TO BE DONE IN A LEGAL MANNER AT CONTRACTOR'S EXPENSE.
- ALL MANHOLES AND/OR OTHER STRUCTURES TO BE ADJUSTED BY THE CONTRACTOR TO MEET FINAL GRADES, A MAXIMUM OF 18 INCHES OF THROAT RINGS WILL BE ALLOWED.
- UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL RETURN THE SITE TO ORIGINAL CONTOURS UNLESS DIFFERENT FINISHED ELEVATIONS ARE SHOWN ON PLANS. CONTRACTOR TO ASSURE NO AREAS OF PONDING ARE PRESENT.

TRAFFIC CONTROL NOTES:

MAINTENANCE OF WORK ZONE TRAFFIC CONTROL SERVICE:

- THOSE PORTIONS OF THE PROJECT WHICH REQUIRE CONSTRUCTION UNDER TRAFFIC WILL BE MAINTAINED IN A CONDITION ACCEPTABLE TO THE ENGINEER. THIS WORK WILL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.
- AT ANYTIME DURING THE PROSECUTION OF THIS PROJECT IF OTHER SIGNS, BARRICADES, ETC. ARE DEEMED NECESSARY TO CONTROL AND PROVIDE SAFETY FOR THE TRAVELING PUBLIC. THE CONTRACTOR SHALL PROVIDE THESE ADDITIONAL TRAFFIC CONTROL DEVICES. PAYMENT FOR THIS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO BID.
- THE CONTRACTOR SHALL TAKE CARE TO ASSURE THAT ALL TRAFFIC CONTROL DEVICES AND WORK ZONE PAVEMENT MARKINGS BE KEPT IN A HIGHLY VISIBLE CONDITION (CLEAN, UPRIGHT, AND PROPER LOCATION) THE CONTRACTOR SHALL HAVE ADEQUATE REPLACEMENT TRAFFIC CONTROL DEVICES AVAILABLE, AT ALL TIMES, TO REPLACE THOSE DAMAGED.

SIGNING:

- THE CONTRACTOR SHALL COVER OR TEMPORARILY REMOVE EXISTING SIGNS THAT CONFLICT WITH THE SUGGESTED TRAFFIC CONTROL PLAN OR THE INTENT THEREOF.
- EXISTING SIGNS THAT DON NOT CONFLICT WITH THE SUGGESTED TRAFFIC CONTROL PLAN OR THE INTENT THEREOF, BUT REQUIRE RELOCATION DUE TO PHYSICAL CONFLICTS SHALL NOT BE RELOCATED UNTIL TEMPORARY SIGN SUPPORTS HAVE BEEN INSTALLED TO ALLOW FOR THE IMMEDIATE RELOCATION OF ANY SUCH SIGNS.
- THESE SIGNING MEASURES SHALL NOT BE PAID, OR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO BID.

PUBLIC ACCESS AND PEDESTRIAN SAFETY:

- ANY PORTIONS OF THIS PROJECT THAT COINCIDE WITH EXISTING PUBLIC ROADS AND/OR PRIVATE DRIVES SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES, UNLESS OTHERWISE DIRECTED OR APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TWO-WAY TRAFFIC ON ALL PUBLIC ROADWAYS AT ALL TIMES UNLESS OTHERWISE NOTED ON THE PLANS.
- FOR PEDESTRIAN SAFETY, THE CONTRACTOR SHALL INSTALL ORANGE PLASTIC CONSTRUCTION FENCING (3 FT TALL MINIMUM) AROUND ALL OPEN EXCAVATIONS. THE PLACEMENT OF THIS FENCING SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC.
- THESE MEASURES FOR PUBLIC ACCESS AND PEDESTRIAN SAFETY WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED SUBSIDIARY TO BID.
- INSTALLATION AND MAINTENANCE OF ALL WORK ZONE SIGNS, BARRICADES, AND PAVEMENT MARKINGS IS THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL CONFORM TO BARRICADE AND CONSTRUCTION (BC) STANDARDS AND/OR THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
- CONSTRUCTION IN ANY AREA THAT IS ADVERSELY AFFECTING TRAFFIC FLOW AND SAFETY MUST BE PURSUED DILIGENTLY BY THE CONTRACTOR. IF IN THE OPINION OF THE ENGINEER, THE CONTRACTOR IS NOT DILIGENTLY PURSUING THE CONSTRUCTION IN THOSE AREAS. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO CHANGE HIS WORK SCHEDULE TO EXPEDITE COMPLETION IN THOSE AREAS OF CONCERN.
- THE CONTRACTOR MAY REQUEST TO ALTER THE TRAFFIC CONTROL PLAN, BUT ANY REQUESTS MAY BE SUBMITTED TO THE ENGINEER IN WRITING. IF THE REQUEST FOR A CHANGE IN THE TRAFFIC CONTROL IS EXTENSIVE, THE ENGINEER MAY REQUIRE THE CONTRACTOR TO PROVIDE PLAN SHEET REVISIONS OUTLINING HIS CHANGE: THESE PLAN SHEET REVISIONS WILL BE PROVIDED BY THE CONTRACTOR AT HIS OWN EXPENSE. ANY CHANGES TO THE TRAFFIC CONTROL PLAN WILL BE SUBJECT TO THE ENGINEER'S WRITTEN APPROVAL.
- FLASHING WARNING LIGHTS AND/OR FLAGS SHALL BE USED TO CALL ATTENTION TO THE EARLY WARNING SIGNS.
- STEADY BURN (TY D) WARNING LIGHTS SHALL BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
- ADDITIONAL SIGNS, BARRICADES, AND/OR OTHER CHANNELIZING DEVICES MAY BE REQUIRED AND/OR ADJUSTED AS DIRECTED BY THE ENGINEER.
- WHEN CONSTRUCTION OPERATIONS RESULT IN DROP OF MORE THAN 2 INCHES NEXT TO TRAVEL WAY A 3:1 SLOPE AND 4.0 FEET BUFFER ZONE WILL BE REQUIRED DURING NON WORKING HOURS.
- FOR POSTED SPEEDS EXCEEDING 30 MPH, ADVISORY SPEED SIGNS WITH APPROPRIATE WARNING SIGNS, SHALL BE POSTED IN THE VICINITY SPECIFIC WORK ZONES WITH THE PROJECT LIMITS, UNLESS OTHER SIDE DIRECTED BY THE ENGINEER.
- LENGTH AND SPACING OF CHANNELIZING DEVICES SHALL BE AS SHOWN ON THE BC STANDARDS AND THE "T.M.U.T.C.D." OTHER SIGNS MAY BE USED IN ADDITION TO THOSE REQUIRED BY BARRICADE STANDARDS.
- ALL WORK SHALL BE DONE EXPEDITIOUSLY DURING DAYLIGHT HOURS, OR AS DIRECTED BY THE ENGINEER. NECESSARY FLAGGERS AND APPROPRIATE SIGNING TO SAFELY GUIDE TRAFFIC THROUGH THE WORK AREA WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- REFER TO STANDARD TRAFFIC CONTROL SHEETS FOR OTHER PERTINENT INFORMATION NOT SHOWN.

TRAFFIC CONTROL NOTES (CONT'D):

- WORK BEYOND THE PROJECT LIMITS WILL BE PERMITTED PROVIDED DRUMS ARE INSTALLED AS PER TRAFFIC CONTROL BARRIER DEVICES AND THE WORK DOES NOT CREATE A DROP OFF OF MORE THAN TWO (2) INCHES.
- CONTRACTOR TO USE A POWER BROOM FOR CLEANING ROADWAY AND TO MAINTAIN CLEAN AT ALL TIMES. THIS IS NOT A PAID ITEM.
- ROADWAY BARRELS TO BE USED WHEN WORKING OUTSIDE OF THE ROADWAY AS TO DELINEATE THE WORK AREA.
- CROSSWALKS, STOP BARS AND OTHER AFFECTED TRAFFIC MARKINGS SHALL BE REPLACED BY THE CONTRACTOR AS NEEDED AT THE CONTRACTOR'S EXPENSE.
- A STORM WATER POLLUTION PREVENTION PLAN (SW3P) IS NOT REQUIRED, DUE TO CONTRACTOR NEVER DISTURBING AREAS GREATER THAN AN 1-ACRE. THE CONTRACTOR WILL BE REQUIRED TO FOLLOW STORM WATER POLLUTION CONTROL AS PER SPECIFICATION 1570 AND PLANS.
- ACCESS TO MAIL BOXES SHALL BE PROVIDED AT ALL TIMES. ANY MAIL BOXES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND SHALL BE AS PER TXDOT STANDARDS.

PAVING CONSTRUCTION NOTES:

- HOT MIX ASPHALT CONCRETE TO BE IN ACCORDANCE WITH TXDOT SPECIFICATION TYPE "D" ITEM 340.
- SUBGRADE EXCAVATION, MIXING OF LIME, AND RECOMPACTION TO BE INCLUDED IN PRICE BID PER SQUARE YARD FOR "LIME TREATED SUBGRADE."
- CONTRACTOR TO FILL BEHIND CURBS AND WALKS AND SHAPE TO INSURE PROPER DRAINAGE.
- CONSTRUCTION JOINTS TO EXISTING PAVEMENT SHALL BE MADE BY EITHER CUTTING BACK EXISTING TO PRODUCE A SLIGHTLY BEVELED EDGE FOR THE FULL THICKNESS OF THE WEARING COURSE OR A SUITABLE LAP JOINT SHALL BE MADE. SAW CUTTING REQUIRED.
- NO TRAFFIC SHALL BE ALLOWED ON THE FINISHED WEARING SURFACE UNTIL AT LEAST 12 HOURS AFTER COMPLETION OF ROLLING.
- HOT MIX ASPHALT CONCRETE TRANSPORT TRUCKS TO BE EQUIPPED WITH CANVAS COVERS TO BE UTILIZED DURING MATERIAL HAULING. MATERIAL DELIVERED TO SITE AT IMPORPER TEMPERATURE SHALL BE REJECTED. HOT MIX SHALL BE LAID AT A MINIMUM TEMPERATURE OF 225°F.
- WHEN TYING INTO EXISTING CURB, EXPOSE REBAR AND FORM EXPANSION JOINT PER DETAIL SHEET.
- ANY SETTLEMENT UNDER PAVEMENT DUE TO INADEQUATE COMPACTION OF UTILITY LINE BACK FILL SHALL BE CAUSE FOR RECOMPACTION OF TRENCH AND REPLACEMENT OF PAVEMENT SECTION.

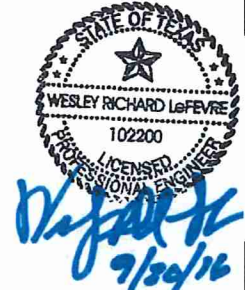
STORMWATER NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE COUNTY OF HIDALGO, PLANS AND SPECIFICATIONS, EXCEPT AS NOTED HEREIN AND APPROVED BY THE COUNTY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH CITY STANDARDS, TEXAS LAW, AND O.S.H.A. STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH.
- THE LOCATION OF ALL UTILITIES LOCATED ON THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT LOCATION AND ELEVATION OF ALL PUBLIC UTILITIES MUST BE DETERMINED BY THE CONTRACTOR. IT SHALL BE THE DUTY OF THE CONTRACTOR TO ASCERTAIN WHETHER ANY ADDITIONAL FACILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PUBLIC UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. ALL MANHOLES, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. MUST BE ADJUSTED TO PROPER LINE AND GRADE BY THE CONTRACTOR PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
- DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATIONS, BOTH DURING AND AFTER CONSTRUCTION.
- BACKFILL FOR UTILITY LINES SHOULD BE CAREFULLY PLACED SO THAT THEY WILL BE STABLE. WHERE UTILITY LINES PASS THROUGH THE PARKING LOT, THE TOP 6" SHOULD BE COMPACTED SIMILARLY TO THE REMAINDER OF THE LOT. UTILITY DITCHES SHOULD BE VISUALLY INSPECTED DURING THE EXCAVATION PROCESS TO ENSURE THE UNDESIRABLE FILL IS NOT USED.
- ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS PER THE GEO-TECHNICAL REPORT.
- ALL PROPOSED SPOT SHOTS ARE GUTTER/TOP OF PAVEMENT/FINISHED GRADE ELEVATIONS UNLESS OTHERWISE SPECIFIED.
- ALL REINFORCED CONCRETE PIPE (RCP) TO BE CLASS III UNLESS NOTED OTHERWISE.

LEGEND:

- - FD. 1/2 INCH IRON ROD
- △ - FD. 80-D NAIL
- △ - FD. CFS
- - IRR. STAND PIPE
- - MAIL BOX
- - RCP
- ⊖ - POWER POLE
- ⊖ - GUY WIRE
- - TEL. PEDESTAL
- ⊖ - SIGN
- ⊖ - WATER METER
- ⊖ - FIRE HYDRANT
- ⊖ - LIGHT POLE
- ⊖ - WATER VALVE
- ⊖ - WATER LINE MARKER
- ⊖ - GRATE INLET

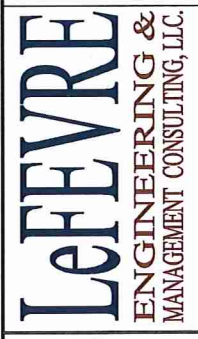
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HIDALGO COUNTY PRECINCT 1 MILE 4 NORTH ROAD FEMA RD & DRAINAGE IMPROVEMENTS				
GENERAL CONSTRUCTION NOTES				



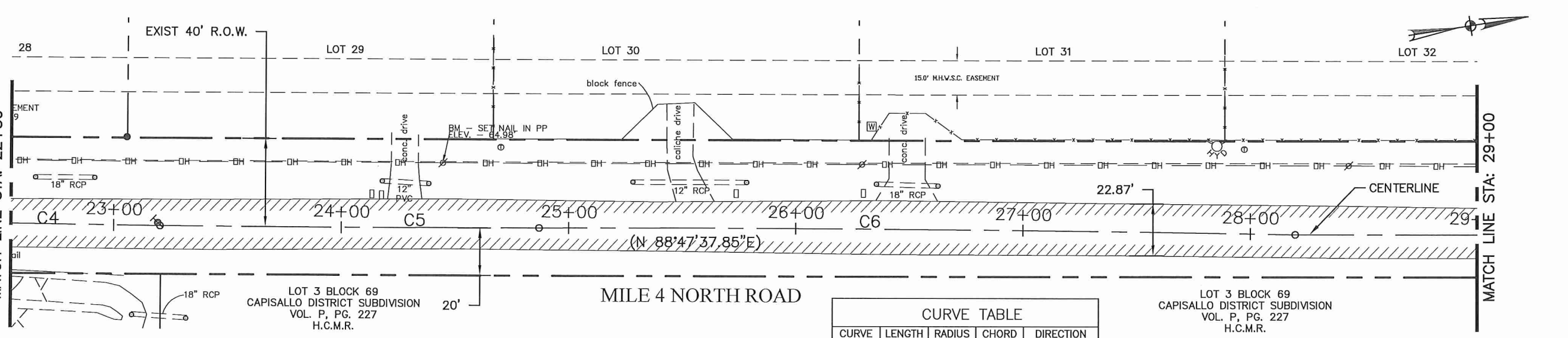
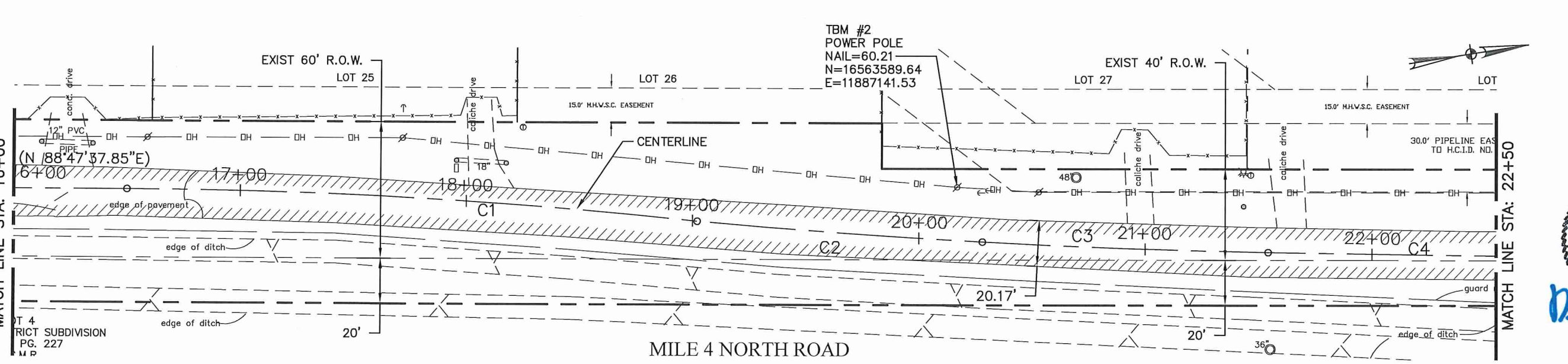
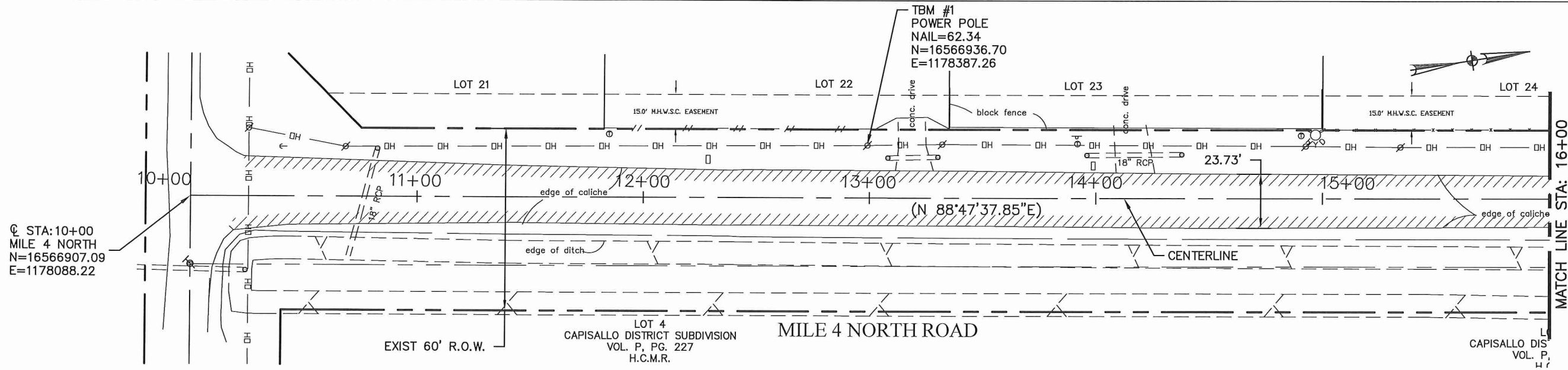
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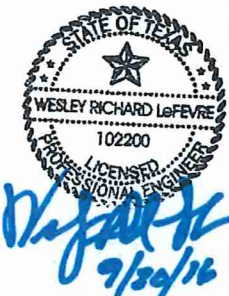
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Date	SEPTEMBER, 2016
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CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	DIRECTION
C1	252.09'	2391.94'	251.97'	N88°11'13.01"W
C2	126.01'	3638.73'	126.01'	S87°11'41.51"E
C3	126.00'	36.38.73'	126.00'	S89°10'44.51"E
C4	166.40'	4938.16'	166.40'	N89°30'35.14"E
C5	166.40'	4938.16'	166.40'	N88°52'17.45"E
C6	332.80''	4323.11'	332.80'	S89°11'26.30"W



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HIDALGO COUNTY PRECINCT 1				
MILE 4 NORTH ROAD				
FEMA RD. & DRAINAGE IMPROVEMENTS				
SURVEY CONTROL PLAN				
SHEET 1 OF 2				

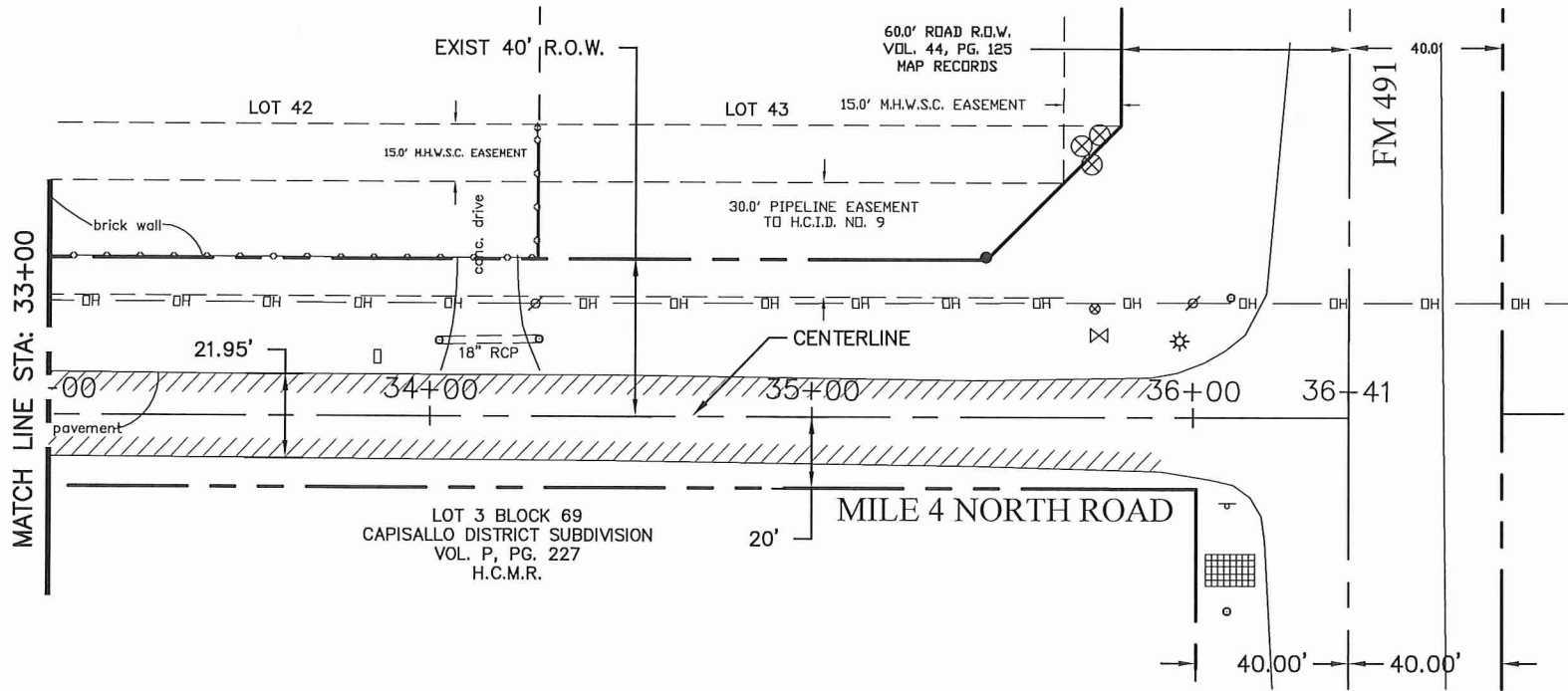
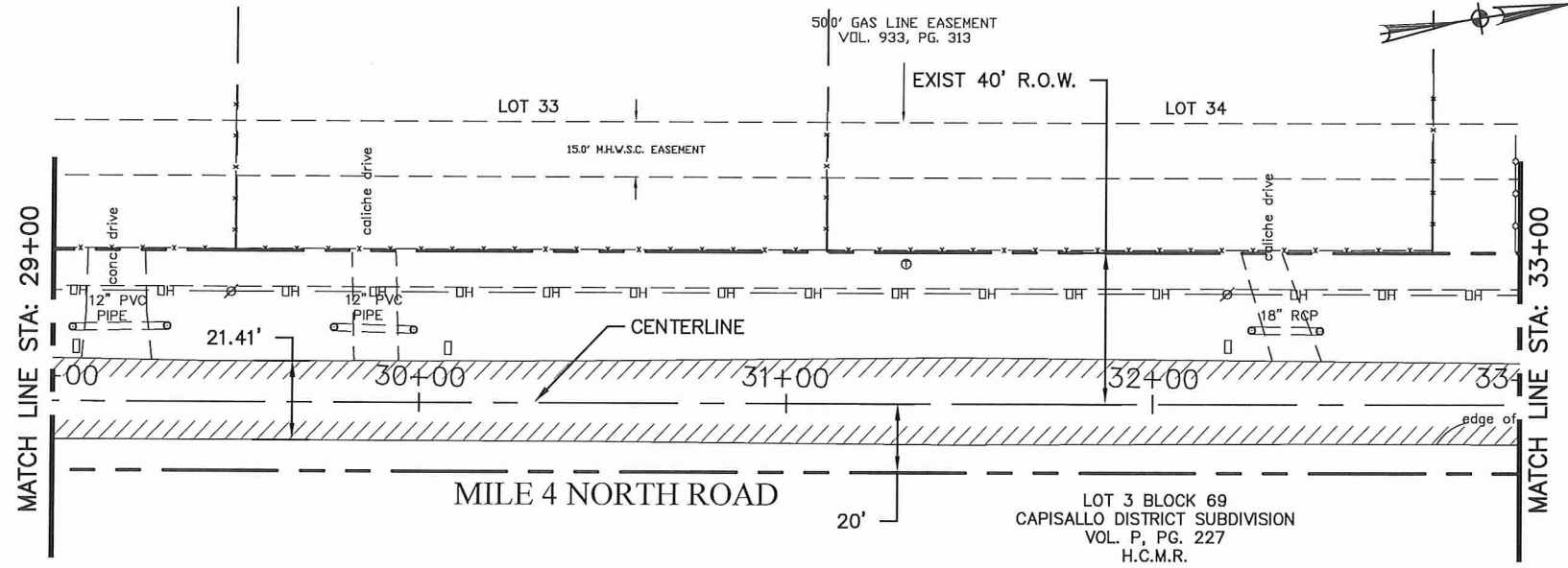
612 Nolana, Suite 520
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Civil Engineering
Environmental Engineering
Planning
Project Management

Texas Registered Engineer, Exp. 11/22

LEFEVRE
ENGINEERING &
MANAGEMENT CONSULTING, LLC.

Drawn L.H.
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Date SEPTEMBER, 2016
Job No. P-195-02
Sheet 3 of 11



STATE OF TEXAS
 WESLEY RICHARD LEFÈVRE
 102200
 LICENSED PROFESSIONAL ENGINEER
Wesley R. Lefevre
 9/29/16

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HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

SURVEY CONTROL PLAN
 SHEE 2 OF 2

612 Nolana, Suite 520
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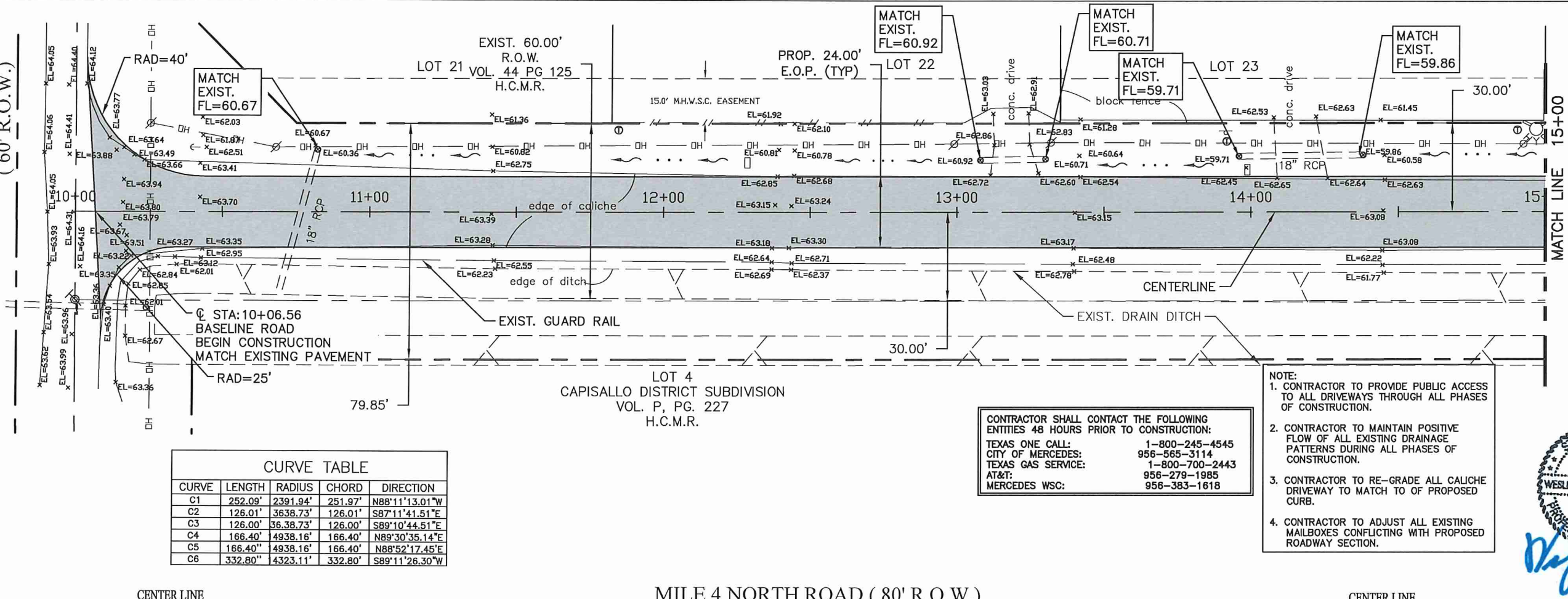
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LEFÈVRE
 ENGINEERING &
 MANAGEMENT CONSULTING, LLC.

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BASELINE ROAD
(60' R.O.W.)



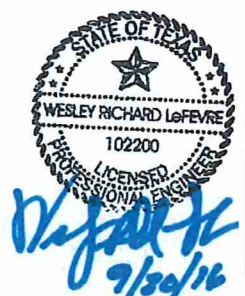
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C6	332.80'	4323.11'	332.80'	S89°11'26.30"W

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:

TEXAS ONE CALL: 1-800-245-4545
 CITY OF MERCEDES: 956-565-3114
 TEXAS GAS SERVICE: 1-800-700-2443
 AT&T: 956-279-1985
 MERCEDES WSC: 956-383-1618

- NOTE:
- CONTRACTOR TO PROVIDE PUBLIC ACCESS TO ALL DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION.
 - CONTRACTOR TO MAINTAIN POSITIVE FLOW OF ALL EXISTING DRAINAGE PATTERNS DURING ALL PHASES OF CONSTRUCTION.
 - CONTRACTOR TO RE-GRADE ALL CALICHE DRIVEWAY TO MATCH TO OF PROPOSED CURB.
 - CONTRACTOR TO ADJUST ALL EXISTING MAILBOXES CONFLICTING WITH PROPOSED ROADWAY SECTION.



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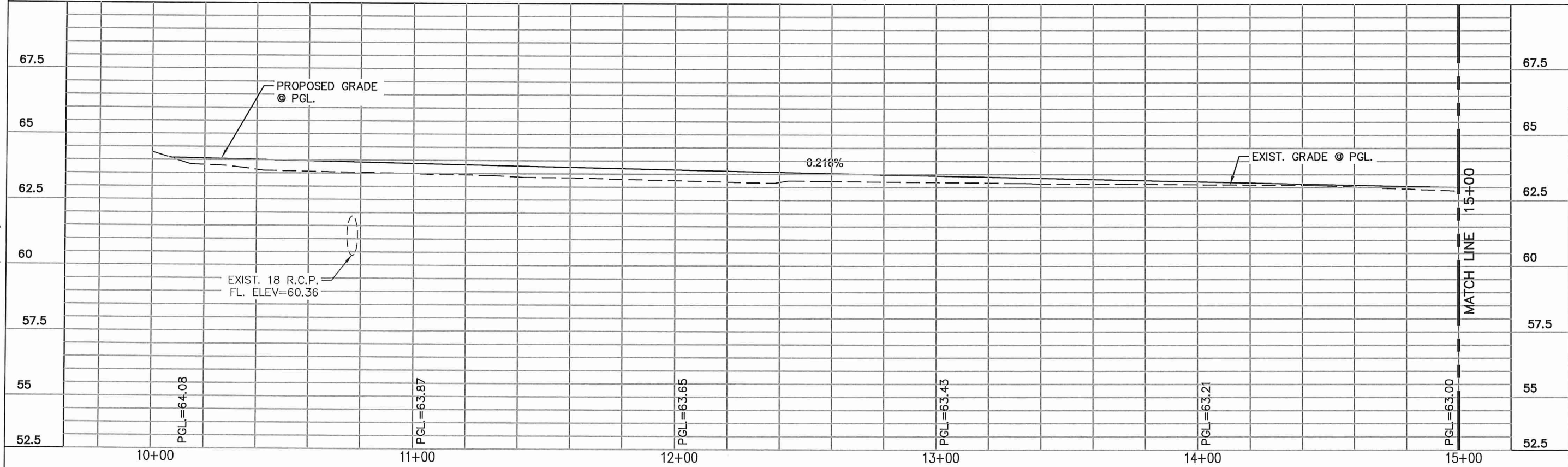
HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
 STA. 10+00 TO 15+00

CENTER LINE

MILE 4 NORTH ROAD (80' R.O.W.)

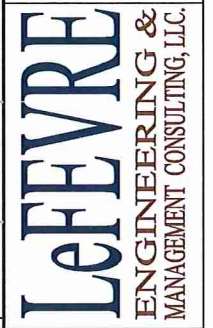
CENTER LINE



612 Nolana, Suite 520
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 Fax: 956-697-5593

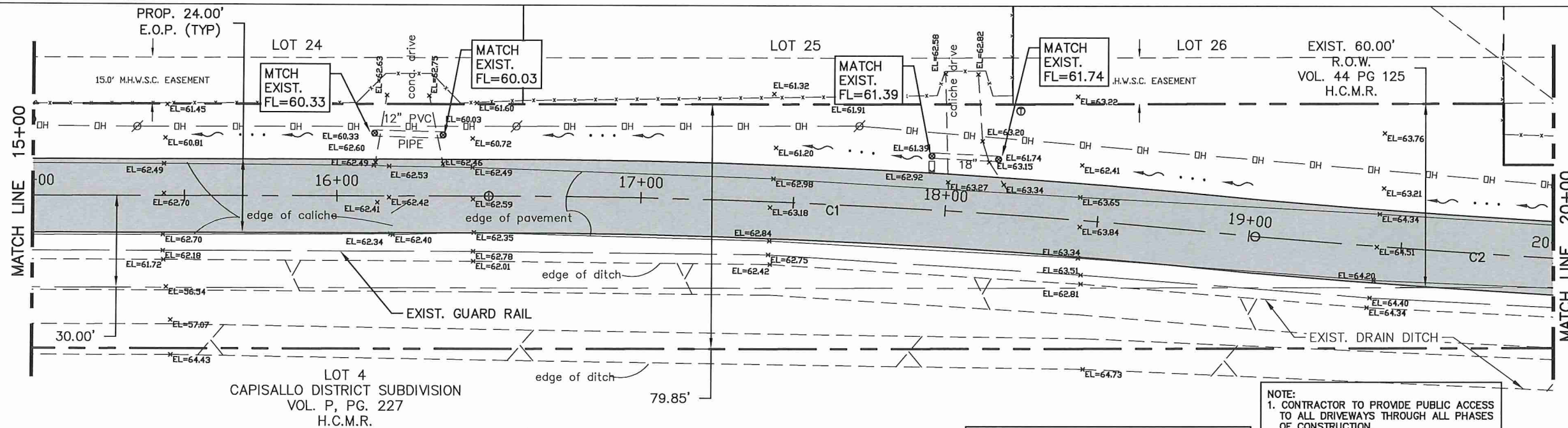
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 Environmental Engineering
 Planning
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Drawn	L.H.
Scale	Horz. 1"=40' Vert. 1"=4'
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Date	SEPTEMBER, 2016
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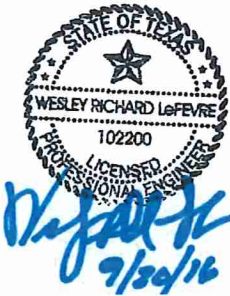
CURVE TABLE

CURVE	LENGTH	RADIUS	CHORD	DIRECTION
C1	252.09'	2391.94'	251.97'	N88°11'13.01"W
C2	126.01'	3638.73'	126.01'	S87°11'41.51"E
C3	126.00'	3638.73'	126.00'	S89°10'44.51"E
C4	166.40'	4938.16'	166.40'	N89°30'35.14"E
C5	166.40'	4938.16'	166.40'	N88°52'17.45"E
C6	332.80'	4323.11'	332.80'	S89°11'26.30"W

CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:

TEXAS ONE CALL: 1-800-245-4545
 CITY OF MERCEDES: 956-565-3114
 TEXAS GAS SERVICE: 1-800-700-2443
 AT&T: 956-279-1985
 MERCEDES WSC: 956-383-1618

- NOTE:
- CONTRACTOR TO PROVIDE PUBLIC ACCESS TO ALL DRIVEWAYS THROUGH ALL PHASES OF CONSTRUCTION.
 - CONTRACTOR TO MAINTAIN POSITIVE FLOW OF ALL EXISTING DRAINAGE PATTERNS DURING ALL PHASES OF CONSTRUCTION.
 - CONTRACTOR TO RE-GRADE ALL CALICHE DRIVEWAY TO MATCH TO OF PROPOSED CURB.
 - CONTRACTOR TO ADJUST ALL EXISTING MAILBOXES CONFLICTING WITH PROPOSED ROADWAY SECTION.

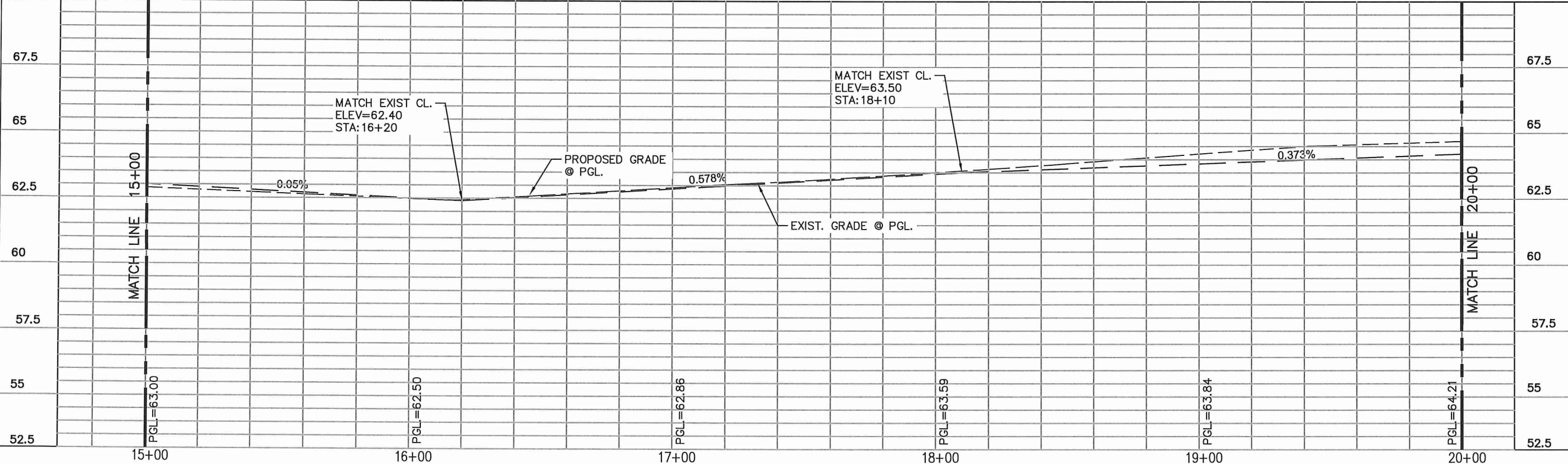


NO.	DATE	REVISION	APPROV.
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HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
 STA. 15+00 TO 20+00

CENTER LINE MILE 4 NORTH ROAD (80' R.O.W.) CENTER LINE



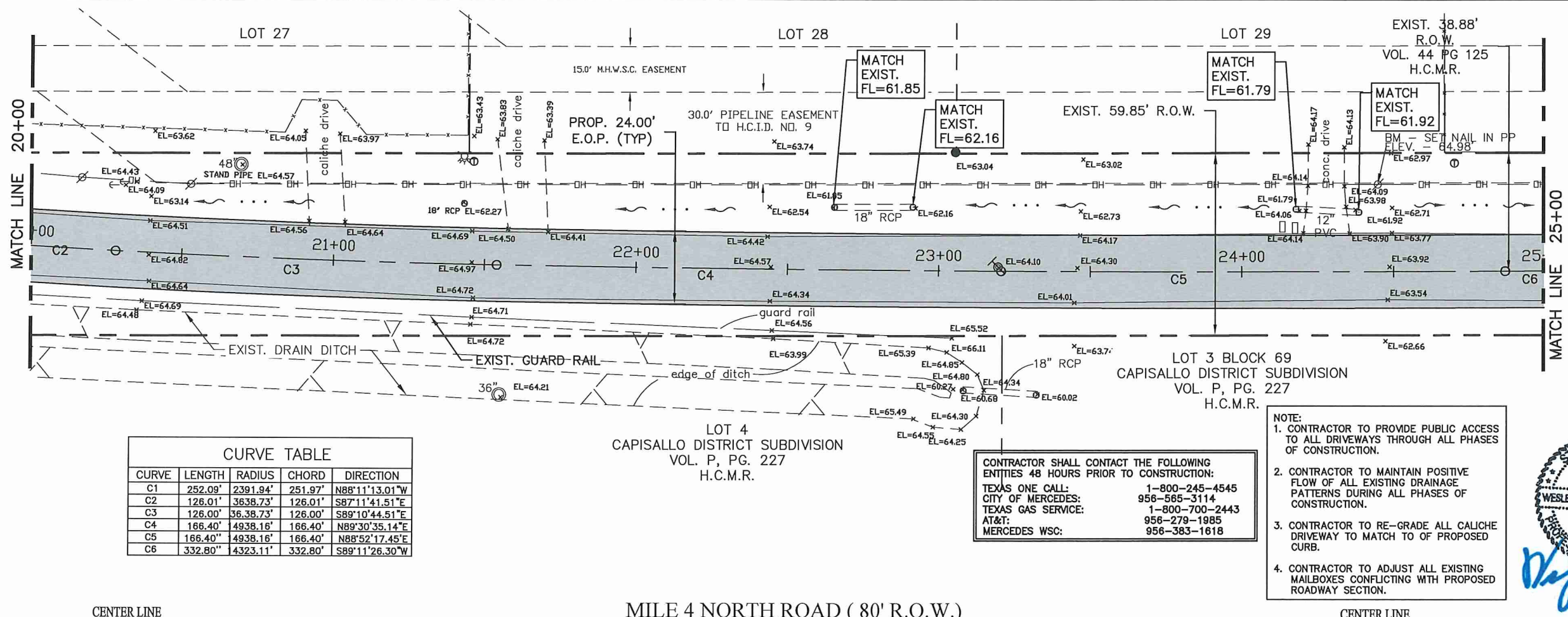
Civil Engineering
 Environmental Engineering
 Planning
 Project Management

612 Nolana, Suite 520
 Merce, TX 75454
 Tel: 956.687.5343
 Fax: 956.687.5363

Texas Registered Engineer Firm E-11722



Drawn	L.H.
Scale	Horz: 1"=40' Vert: 1"=40'
Checked	E.S.
Date	SEPTEMBER, 2016
Job No.	P-195-02
Sheet	6 of 11

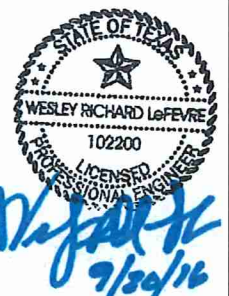


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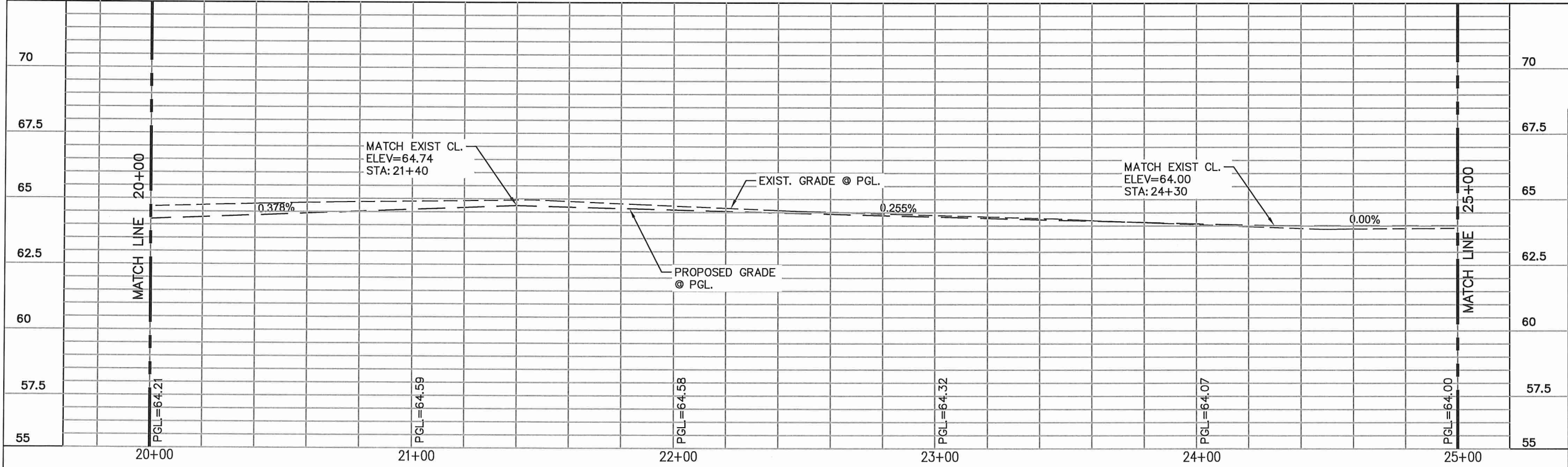
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 - CONTRACTOR TO ADJUST ALL EXISTING MAILBOXES CONFLICTING WITH PROPOSED ROADWAY SECTION.



CENTER LINE MILE 4 NORTH ROAD (80' R.O.W.) CENTER LINE



NO.	DATE	REVISION	APPROV.
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HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
 STA. 20+00 TO 25+00

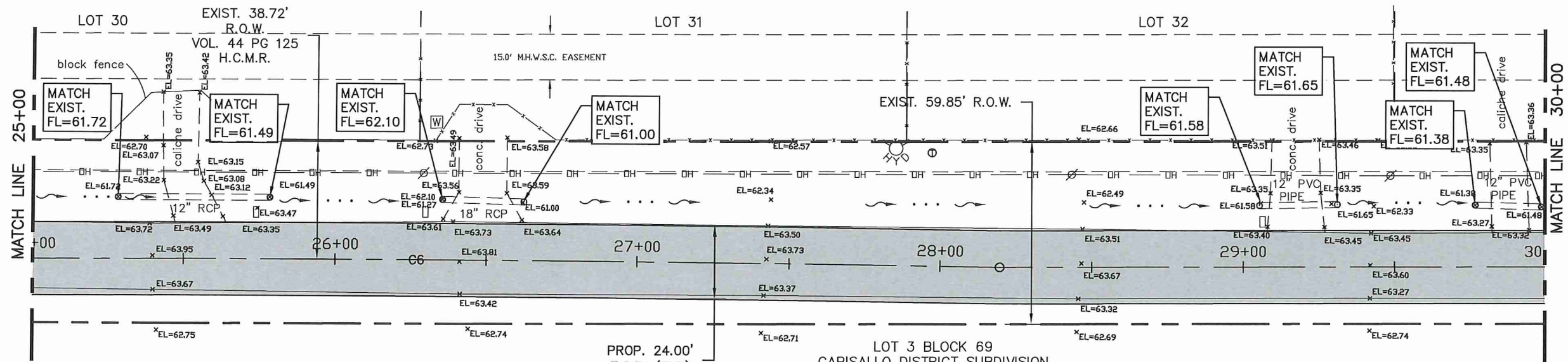
Civil Engineering
 Environmental Engineering
 Planning
 Project Management

612 Nolana, Suite 520
 Merced, TX 75404
 Tel. 956.687.1540
 Fax. 956.687.5393

Texas Registered Engineering Firm E-11722



Drawn L.H.
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 Vert. 1:40
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 Date SEPTEMBER, 2016
 Job No. P-195-02
 Sheet 7 of 11

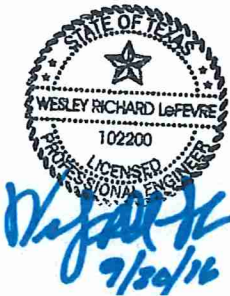


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 AT&T: 956-279-1985
 MERCEDES WSC: 956-383-1618

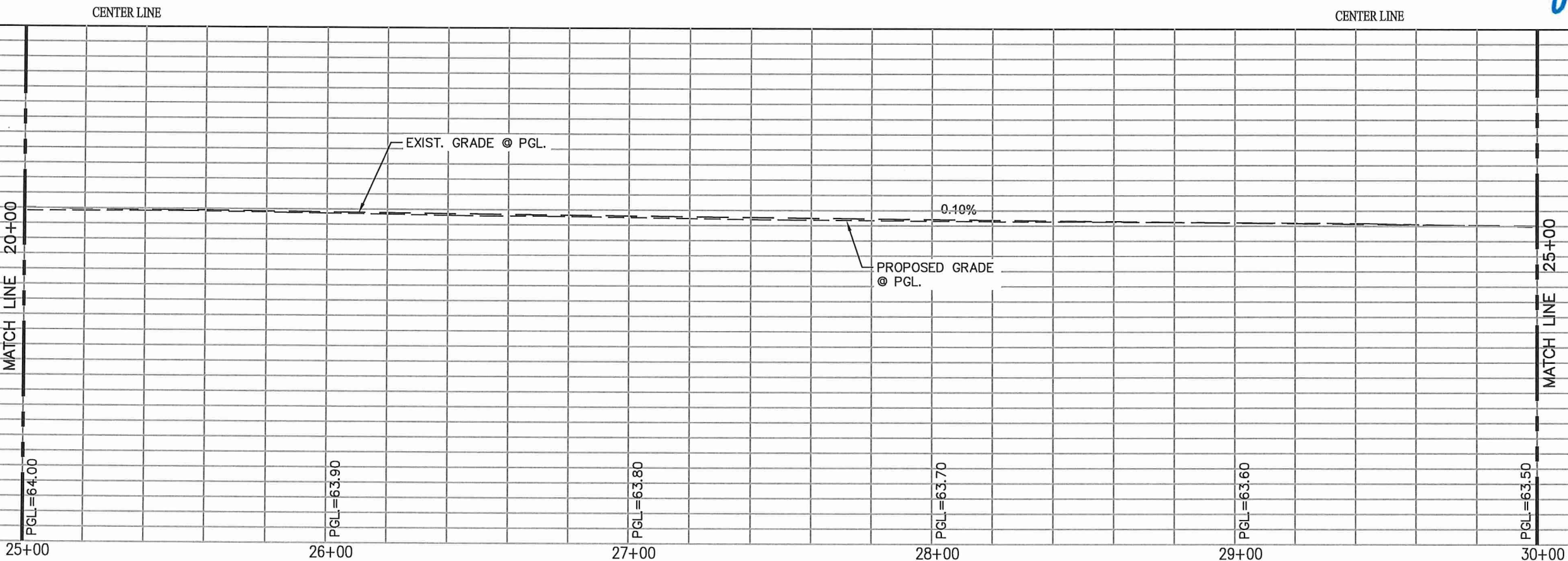
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HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
 STA. 25+00 TO 30+00



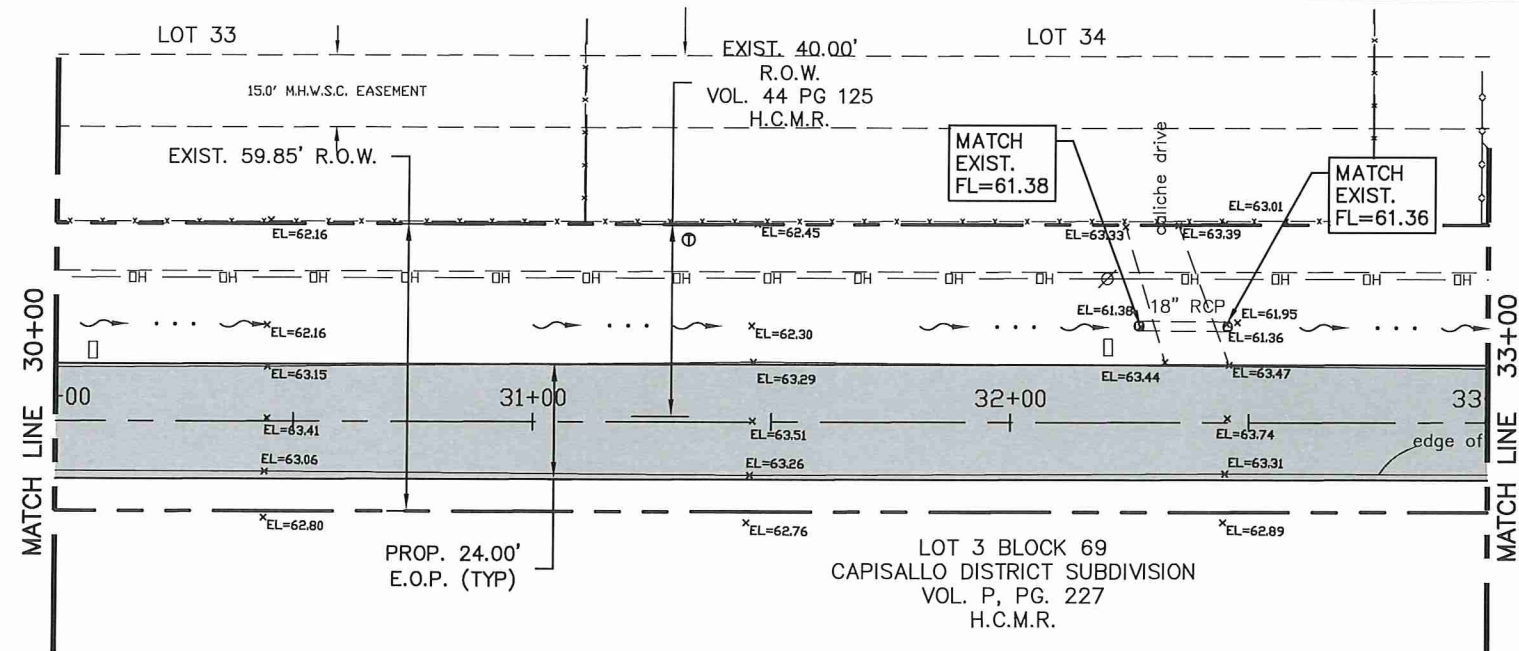
612 Nolana, Suite 520
 Merced, TX 75404
 Tel: 956.687.1544
 Fax: 956.687.5363

Civil Engineering
 Environmental Engineering
 Planning
 Project Management

Texas Registered Engineering Firm E-11722



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Scale	Horz. 1:40 Vert. 1:40
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Date	SEPTEMBER, 2016
Job No.	P-195-02
Sheet	8 of 11



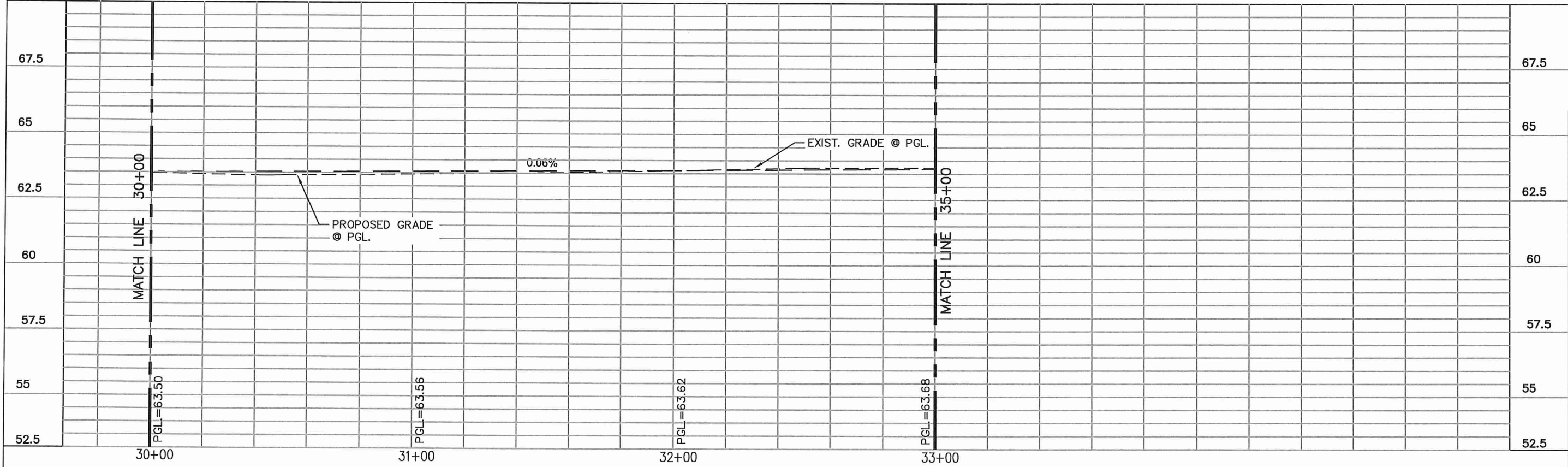
CONTRACTOR SHALL CONTACT THE FOLLOWING ENTITIES 48 HOURS PRIOR TO CONSTRUCTION:

TEXAS ONE CALL:	1-800-245-4545
CITY OF MERCEDES:	956-565-3114
TEXAS GAS SERVICE:	1-800-700-2443
AT&T:	956-279-1985
MERCEDES WSC:	956-383-1618

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CENTER LINE MILE 4 NORTH ROAD (80' R.O.W.) CENTER LINE



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HIDALGO COUNTY PRECINCT 1
MILE 4 NORTH ROAD
FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
STA. 30+00 TO 35+00

612 Nolana, Suite 520
Mercedes, TX 75454
Tel: 956.687.1544
Fax: 956.687.5963

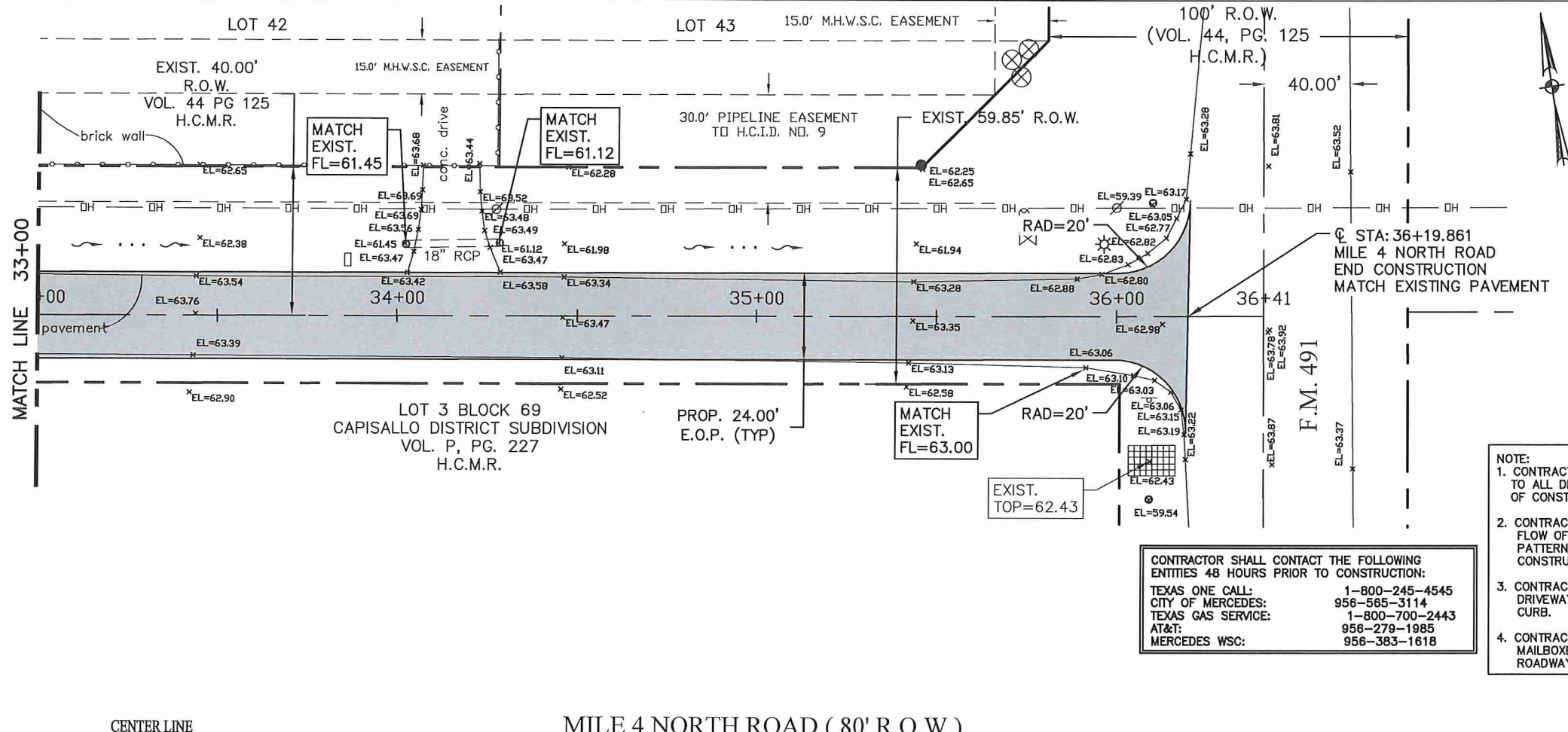
Civil Engineering
Environmental Engineering
Planning
Project Management

LEFEVRE
ENGINEERING &
MANAGEMENT CONSULTING, LLC.

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Scale Horz. 1"=40'
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Date SEPTEMBER, 2016
Job No. P-195-02
Sheet 9 of 11

Texas Registered Engineering Firm E-11722

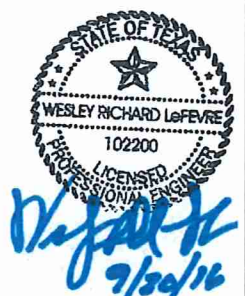
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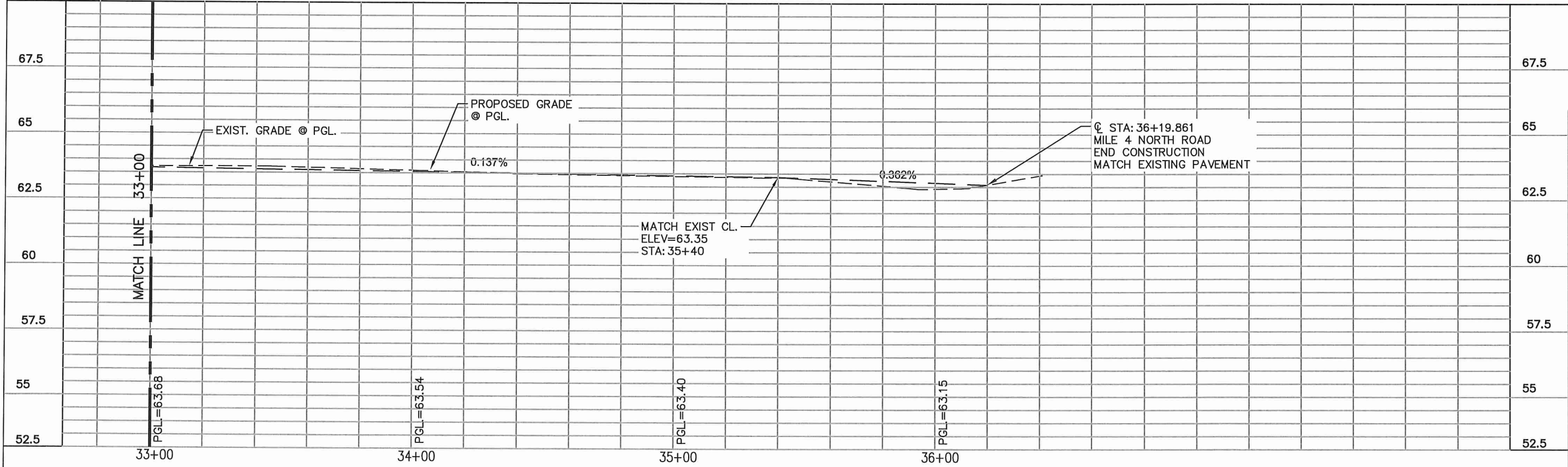
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TEXAS ONE CALL: 1-800-245-4545
 CITY OF MERCEDES: 956-585-3114
 TEXAS GAS SERVICE: 1-800-700-2443
 AT&T: 956-279-1985
 MERCEDES WSC: 956-383-1618



CENTER LINE MILE 4 NORTH ROAD (80' R.O.W.) CENTER LINE



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HIDALGO COUNTY PRECINCT 1
 MILE 4 NORTH ROAD
 FEMA RD & DRAINAGE IMPROVEMENTS

PLAN AND PROFILE SHEET
 STA. 33+00 TO 36.41

30% REVIEW SET
 THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF REVIEW UNDER THE AUTHORITY OF WESLEY RICHARD LEFEVRE, P.E. IT IS NOT TO BE USED FOR CONSTRUCTION, OR COMMITTING PURPOSES.
 WESLEY RICHARD LEFEVRE
 P.E. #02200

Civil Engineering
 Environmental Engineering
 Planning
 Project Management

612 Nolana, Suite 520
 Dallas, TX 75244
 Tel: 956.687.1543
 Fax: 956.687.5363

Texas Registered Engineering Firm F-11722

LEFEVRE
 ENGINEERING &
 MANAGEMENT CONSULTING, LLC.

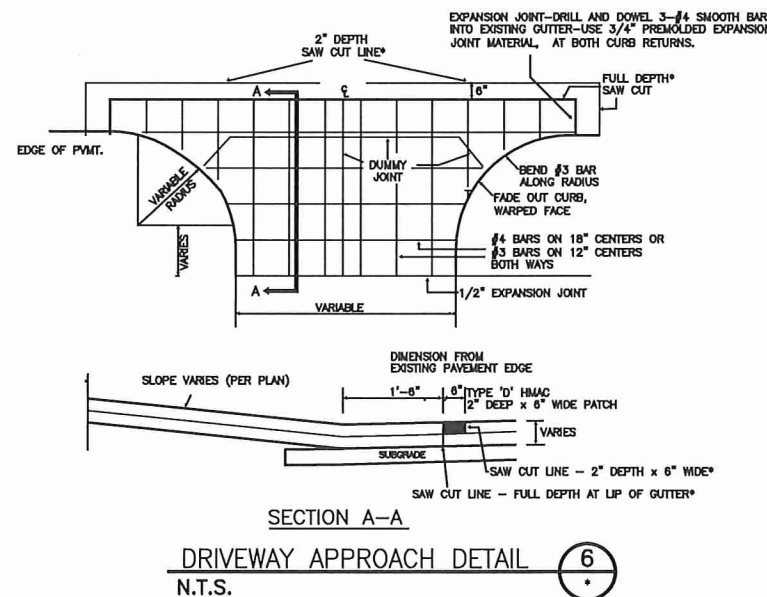
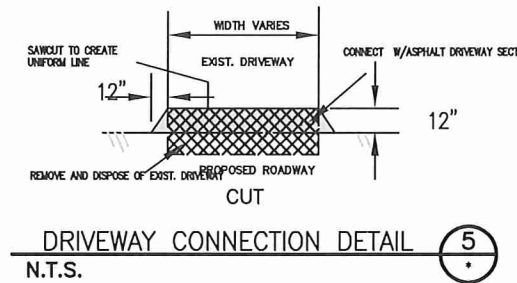
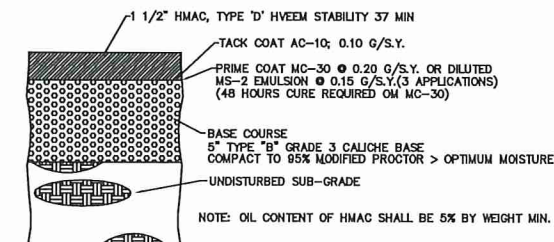
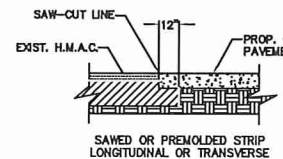
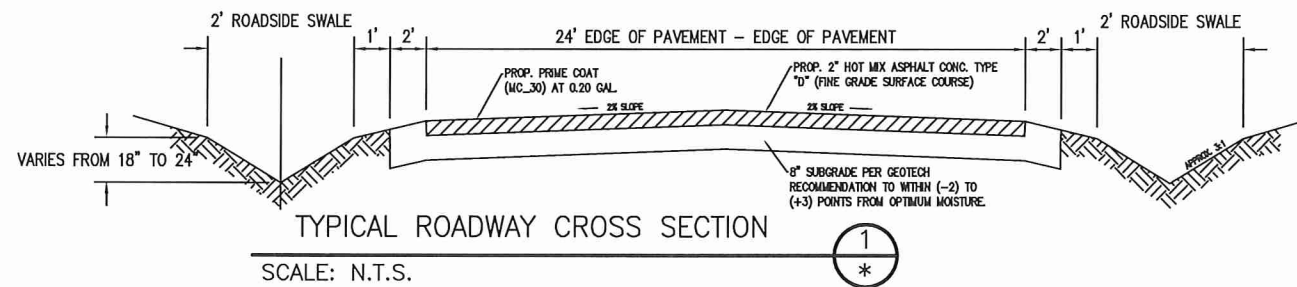
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 Vert. 1"=40'
 Checked E.S.
 Date SEPTEMBER, 2016
 Job No. P-195-02
 Sheet 10 of 11

GENERAL

- CONTRACTOR SHALL CONTACT Lefevre Engineering & Management Consulting, LLC (LEMC) AT 956-661-8000, 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN PROJECT SITE.
- CONTRACTOR TO NOTIFY ALL UTILITY COMPANIES WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO EXCAVATION NEAR THEIR UTILITIES.
- CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES (NO SEPARATE PAY). ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF Lefevre Engineering Management Consulting, LLC. IN WRITING PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF THIS CONSTRUCTION OPERATION WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR TO OBTAIN ALL CONSTRUCTION PERMITS NOT SUPPLIED BY OWNER AT HIS EXPENSE PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES OR RAILROADS AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN ONLY BE ISSUED TO CONTRACTOR WILL BE OBTAINED AT HIS EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF PROPOSED FACILITIES.
- FILL TO BE PLACED IN MAXIMUM 6-INCH LIFTS AND COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY PER ASTM D-698, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING MUD AND/OR DIRT TRACKED ONTO EXISTING STREETS BY HIS WORKMEN'S, SUPPLIER'S, OR SUBCONTRACTOR'S VEHICLES. STREETS MUST BE CLEANED WITHIN 2 HOURS OF WHEN THE TRACKING OCCURS. NO SEPARATE PAY.
- CONTRACTOR IS HEREBY INFORMED THAT ALL WORK WILL BE DONE IN STRICT ACCORDANCE WITH THE LATEST OSHA STANDARDS.
- WHERE CONTRACTOR'S WORK AND/OR EQUIPMENT CAUSES AN OBSTRUCTION TO TRAFFIC, CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PART 37 OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D., MOST RECENT EDITION AS REVISED) DURING CONSTRUCTION. A WRITTEN TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO CONSTRUCTION FOR REVIEW BY THE ENGINEER & OTHER APPROPRIATE PERSONS.
- LOCATION OF EXISTING UNDERGROUND UTILITIES AND SERVICE LINES (WATER, SEWER, GAS, TELEPHONE, ELECTRICAL, ETC.) ARE DETERMINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE LINES AND/OR OBSTRUCTIONS AHEAD OF EXCAVATION.
- ANY SOIL BORINGS THE CONTRACTOR REQUIRES ARE TO BE DONE BY THE CONTRACTOR AT HIS EXPENSE.
- OVERHEAD LINES MAY EXIST ON THE PROPERTY. CLEARLY VISIBLE LINES ARE NOT MARKED, AND CONTRACTOR TO NOTE THEIR LOCATION PRIOR TO CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE, FORBIDS ALL ACTIVITIES IN WHICH PERSONS OR OBJECTS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES. CONTRACTORS ARE LEGALLY RESPONSIBLE FOR SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY.
- CONTRACTOR TO MAKE ARRANGEMENTS WITH THE APPROPRIATE UTILITY COMPANY FOR SECURING POLES, IF NECESSARY, WHILE CONSTRUCTION PASSES BY POLES. COSTS OF SECURING POLES WILL BE PAID FOR BY THE CONTRACTOR, NO SEPARATE PAY.
- CONSTRUCTION STAKING (ALIGNMENT AND GRADE) TO BE PROVIDED BY THE CONTRACTOR AND PAID BY APPROPRIATE LINE ITEM.
- SURPLUS EXCAVATED MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE AS DIRECTED BY THE ENGINEER. IF THE ENGINEER NOTIFIES THE CONTRACTOR THAT THE OWNER DOES NOT HAVE USE FOR THIS MATERIAL, THE SURPLUS MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR, AND IT IS HIS RESPONSIBILITY TO DISPOSE OF THE MATERIAL.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL REQUIREMENTS.
- CONTRACTOR SHALL PROTECT EXISTING UNDERGROUND FACILITIES DURING INSTALLATION OF PROPOSED WORK.
- PAVED SURFACES SHALL BE PROTECTED FROM DAMAGE FROM TRACKED EQUIPMENT.
- IRON RODS DISTURBED DURING CONSTRUCTION TO BE REPLACED BY REGISTERED PUBLIC LAND SURVEYOR TO ORIGINAL PROPERTY CORNER AT NO SEPARATE PAY.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AN UPDATED REDLINED "AS-BUILT" SET OF PLANS ON SITE FOR INSPECTION BY THE ENGINEER, THE ENGINEER'S REPRESENTATIVE, AND THE OWNER'S REPRESENTATIVE.
- WORK PERFORMED UNDER THIS CONTRACT IS GOVERNED BY REQUIREMENTS OF SEVERAL PUBLIC, GOVERNMENTAL, AND PRIVATE ENTITIES. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF GOVERNING ENTITIES.
- SURVEY PERFORMED BY VALLEY DATA GPS - 2012.
ELEVATIONS BASED UPON STATIC GPS OBSERVATIONS; NAVD 88
HORIZ:
STATE PLANE COORDINATES (NAD83) ZONE SOUTH TEXAS - 4205

TRAFFIC CONTROL

- TO BE PROVIDED BY CONTRACTOR.

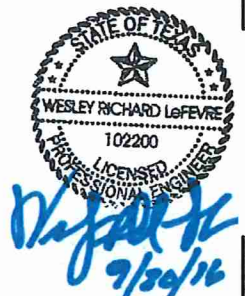


NOTES:

- ALL ENTRANCES CONSTRUCTED ON THIS PROJECT ARE SUBJECT TO CONCURRENCE WITH EXISTING GOVERNING REGULATIONS AS SET OUT BY THE STATE HIGHWAY COMMISSION.
- ENTRANCE'S BASE AND SURFACING MAY BE EXTENDED BEYOND R.O.W. LINE AS REQUIRED TO MEET EXISTING GRADE IN THE SATISFACTORY MANNER OF WHICH NO STEEPER THAN 12:1 SLOPE WILL BE CONSTRUCTED.
- ALL FLEXIBLE BASE USED FOR PRIVATE DRIVES & COMMERCIAL DRIVES WILL NOT REQUIRE LIME TREATMENT.
- EXACT LOCATIONS, DIMENSIONS, AND TYPE TO BE ESTABLISHED DURING CONSTRUCTION BY THE ENGINEER.
- SIDE DRAINS TO BE INSTALLED WITH A MINIMUM OF 6" COVER BY PROPOSED RESIDENTIAL & COMMERCIAL MATERIAL OR 15" COVER OF PROPOSED COUNTY RD. & CITY STREET ROADWAY MATERIAL.

APPROV.	REVISION	DATE	NO.
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HIDALGO COUNTY PRECINCT 1
MILE 4 NORTH ROAD
FEMA RD & DRAINAGE IMPROVEMENTS
DETAILS SHEET



Civil Engineering
Environmental Engineering
Planning
Project Management

1625 N. Main St. Suite 600
P.O. Box 78504
Dallas, Texas 75278
Tel. 956.687.1540
Fax. 956.687.5953

Texas Registered Engineering Firm F-11722

LEFEVRE
ENGINEERING &
MANAGEMENT CONSULTING, LLC.

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