Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS P.E., DISTRICT ENGINEER

FM 740 AND FM 548
DESIGN SCHEMATIC

KAUFMAN COUNTY, TEXAS

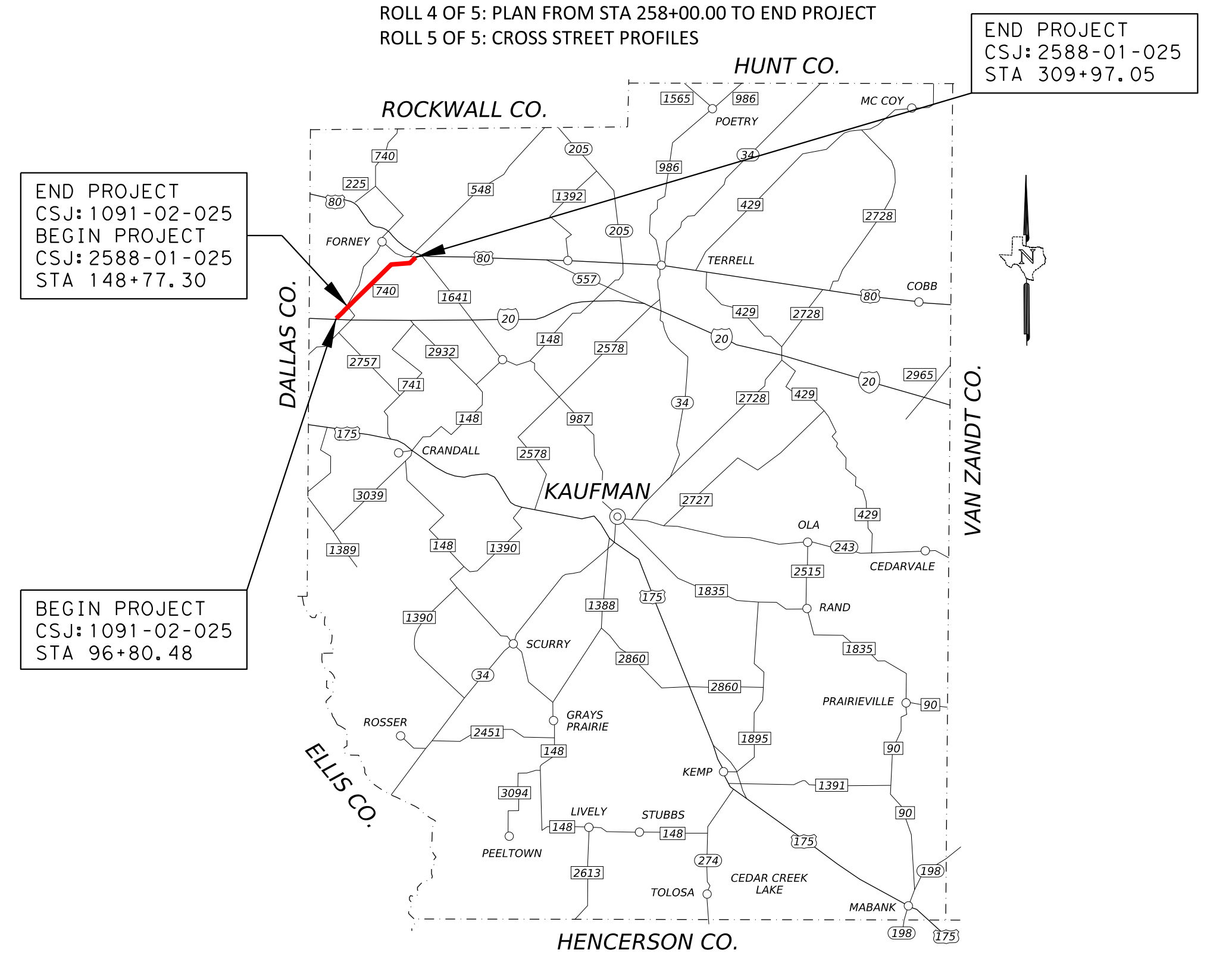
FM 740 / FM 548
PROJECT LIMIT: FROM IH 20 TO FM 1641
CSJ: 1091-02-025 / 2588-01-025
PROJECT LENGTH: 4.04 MILES
WIDEN 2 LANE ROADWAY TO 4 LANE DIVIDED

DATE: APRIL 2023

ROADWAY TYPE	DESIGN SPEED	FUNCTIONAL CLASSIFICATION
URBAN STREET	45 MPH	URBAN ARTERIAL

INDEX OF SHEETS

ROLL 1 OF 5: PLAN FROM BEGIN PROJECT TO STA 148+00.00
ROLL 2 OF 5: PLAN FROM STA 148+00.00 TO STAT 203+00.00
ROLL 3 OF 5: PLAN FROM STA 203+00.00 TO STA 258+00.00
ROLL 4 OF 5: PLAN FROM STA 258+00.00 TO END PROJECT
ROLL 5 OF 5: CROSS STREET PROFILES


END PROJECT
CSJ:2588-01-025
STA 309+97.05
HUNT CO.
ROCKWALL CO.
END PROJECT
CSJ:1091-02-025
BEGIN PROJECT
CSJ:2588-01-025
STA 148+17.30
BEGIN PROJECT
CSJ:1091-02-025
STA 96+80.48
DALLAS CO.
VAN ZANDT CO.
KAUFMAN
FORNEY
TERRELL
POETRY
MC COY
ELLIS CO.
PEELTOWN
LIVELY
STUBBS
TOLOSA
CEDAR CREEK LAKE
MABANK
HENCERSON CO.

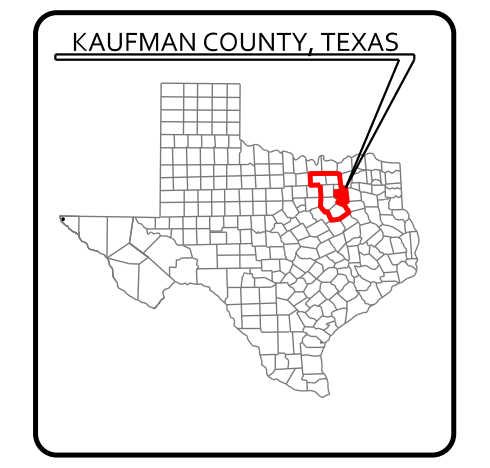
LOCATION MAP

N.T.S.
ROLL 1 OF 5
SCALE 1" = 100'

LEGEND

→ DIRECTION OF TRAFFIC
-·-·- EXISTING ROW
-·-·- PROPOSED ROW
🟦 PROPOSED SHARED USE PATH (SUP)
🟦 PROPOSED SHARED USE PATH ON BRIDGE
🟧 PROPOSED BRIDGE WIDENING
⬜ EXISTING BRIDGE TO REMAIN
🟨 PROPOSED PAVEMENT
🟩 PROPOSED MEDIAN
🟪 PROPOSED CROSS STREET PAVEMENT
🟦 PROPOSED DRIVEWAY
🟦 DISPLACEMENT
🟦 100 YEAR FLOODPLAIN LIMITS
⋀ PROPOSED RETAINING WALL

0 100 200
HORIZONTAL
GRAPHIC SCALE IN FEET


KAUFMAN COUNTY, TEXAS

TEXAS COUNTY MAP
N.T.S.

PRELIMINARY
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NAME	P.E. NO.	DATE
ABENET BEKELE	86055	7/11/23

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DALLAS, TX 75201-3136
Phone 214.638.0145
Firm Registration F-2966

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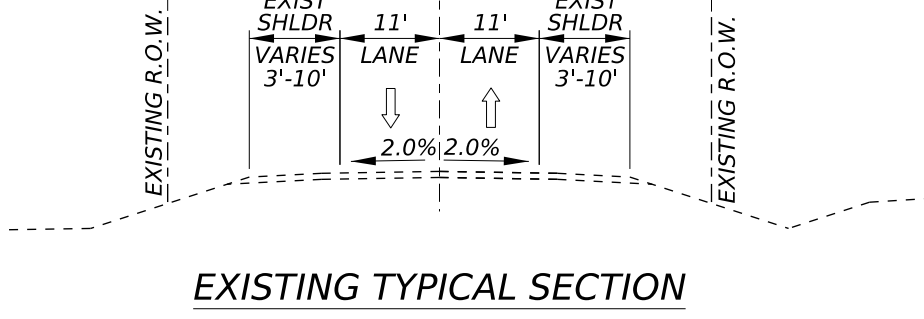
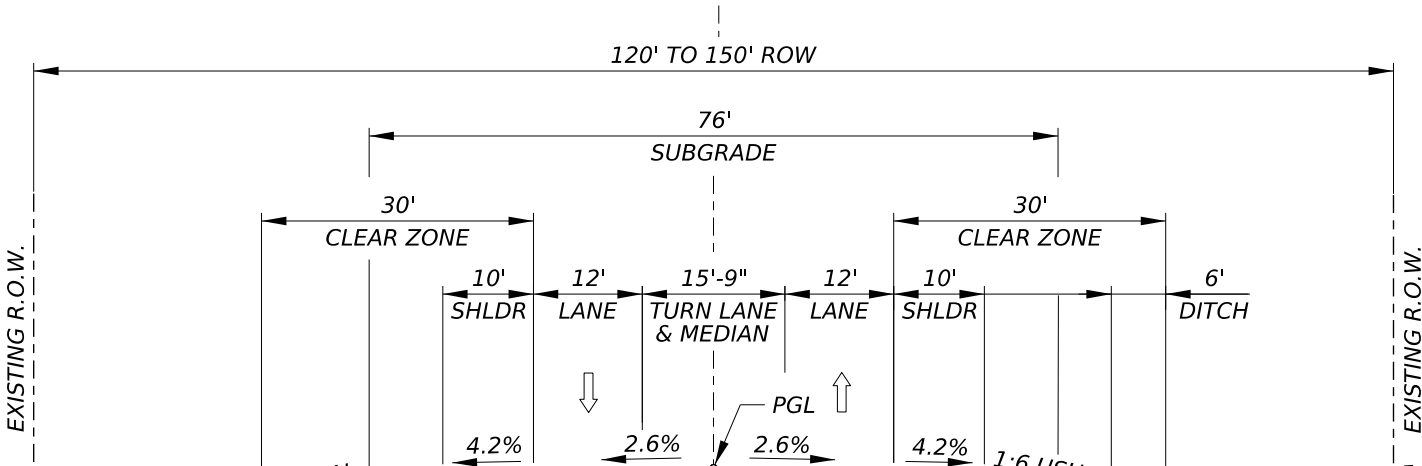
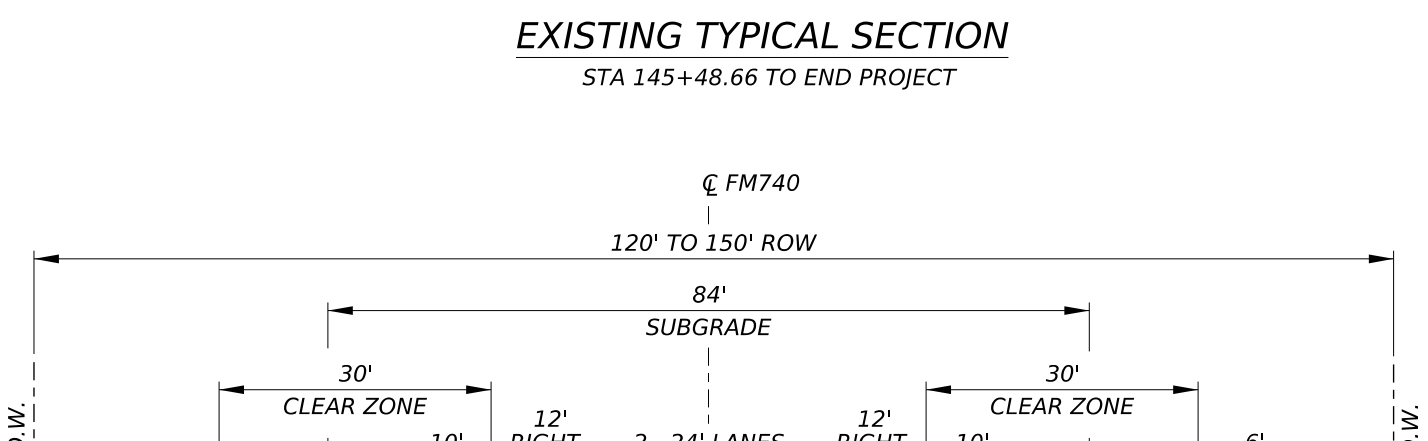

℄ FM740
60' ROW
EXIST SHLDR VARIES 3'-10'
11' LANE
11' LANE
EXIST SHLDR VARIES 3'-10'
2.0%
2.0%
EXISTING R.O.W.
EXISTING R.O.W.

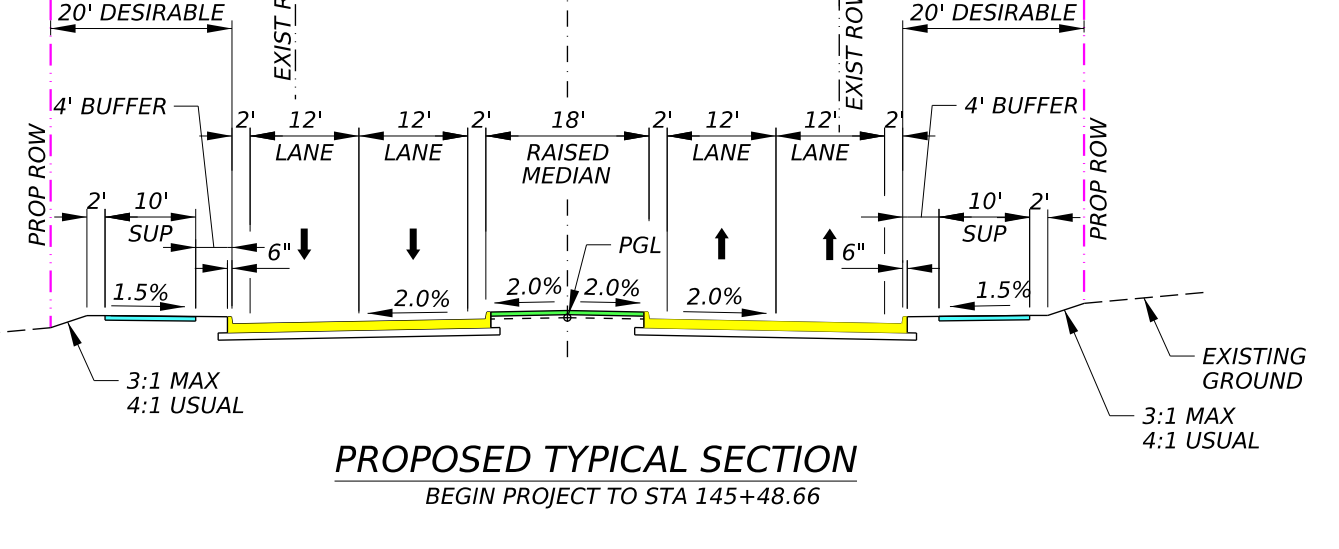
EXISTING TYPICAL SECTION
BEGIN PROJECT TO STA 145+48.66


℄ FM740
120' TO 150' ROW
76' SUBGRADE
30' CLEAR ZONE
30' CLEAR ZONE
10' SHLDR
12' LANE
15'-9" TURN LANE & MEDIAN
12' LANE
10' SHLDR
6' DITCH
PGL
4.2%
2.6%
2.6%
4.2%
1:6 USUAL
1:6 USUAL
EXISTING R.O.W.
EXISTING R.O.W.

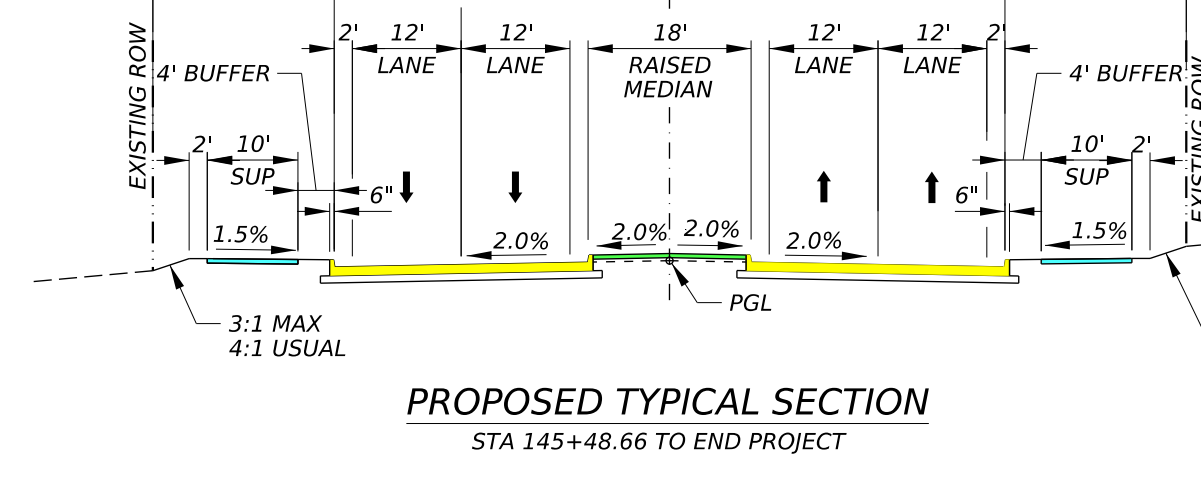
EXISTING TYPICAL SECTION
STA 145+48.66 TO END PROJECT


℄ FM740
120' TO 150' ROW
84' SUBGRADE
30' CLEAR ZONE
30' CLEAR ZONE
10' SHLDR
12' RIGHT TURN LANE
2 - 24' LANES
12' RIGHT TURN LANE
10' SHLDR
6' DITCH
PGL
4.2%
2.6%
2.6%
4.2%
1:6 USUAL
1:6 USUAL
EXISTING R.O.W.
EXISTING R.O.W.

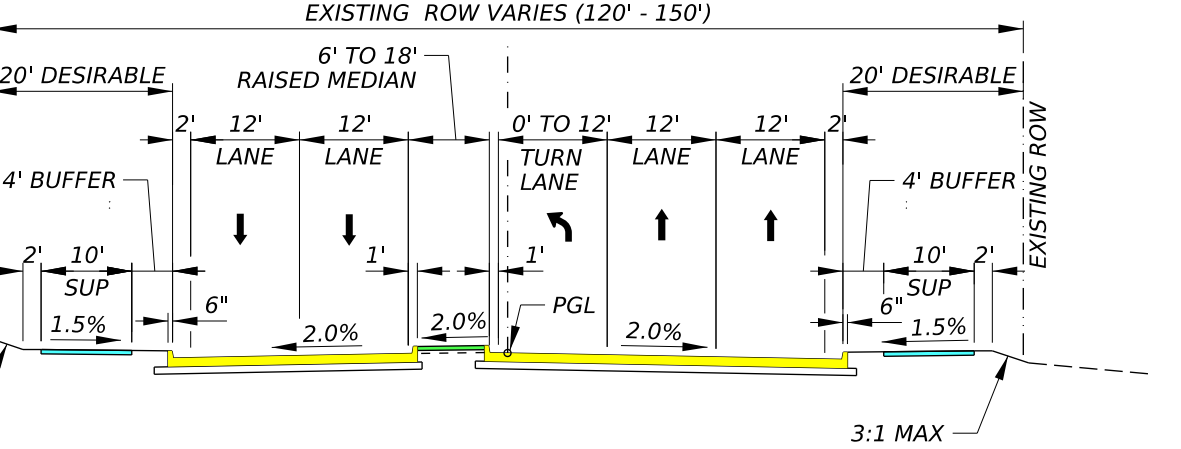
EXISTING TYPICAL SECTION
WITH RIGHT TURN LANES


℄ FM740
PROPOSED ROW VARIES (120' - 130')
EXISTING ROW (60')
20' DESIRABLE
20' DESIRABLE
EXIST ROW
EXIST ROW
PROP ROW
PROP ROW
4' BUFFER
4' BUFFER
2'
10' SUP
12' LANE
12' LANE
18' RAISED MEDIAN
12' LANE
12' LANE
6"
PGL
1.5%
2.0%
2.0%
2.0%
2.0%
1.5%
3:1 MAX 4:1 USUAL
EXISTING GROUND

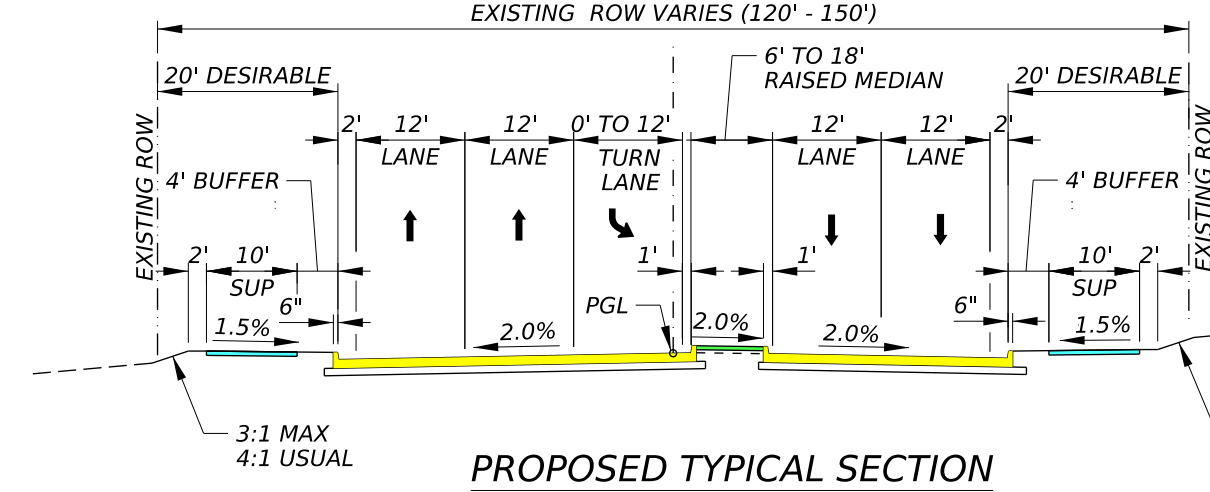
PROPOSED TYPICAL SECTION
BEGIN PROJECT TO STA 145+48.66


℄ FM740
EXISTING ROW VARIES (120' - 150')
20' DESIRABLE
20' DESIRABLE
EXISTING ROW
4' BUFFER
10' SUP
12' LANE
12' LANE
18' RAISED MEDIAN
12' LANE
12' LANE
PGL
1.5%
2.0%
2.0%
2.0%
2.0%
1.5%
3:1 MAX 4:1 USUAL
EXISTING GROUND

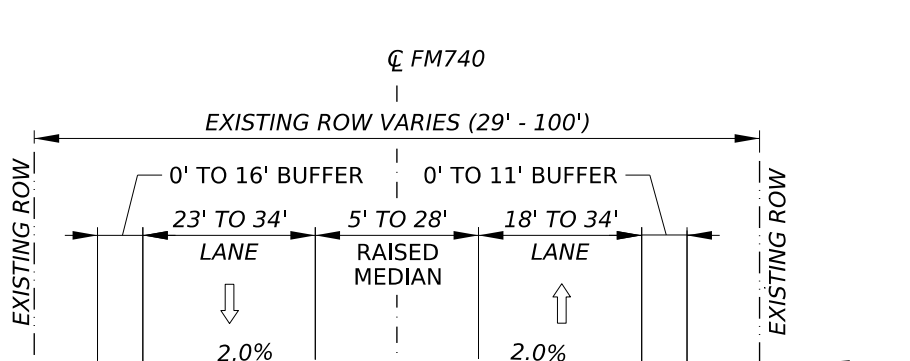
PROPOSED TYPICAL SECTION
STA 145+48.66 TO END PROJECT


℄ FM740
EXISTING ROW VARIES (120' - 150')
6' TO 18' RAISED MEDIAN
20' DESIRABLE
20' DESIRABLE
EXISTING ROW
4' BUFFER
10' SUP
12' LANE
12' LANE
0' TO 12' TURN LANE
12' LANE
12' LANE
PGL
1.5%
2.0%
2.0%
2.0%
1.5%
3:1 MAX 4:1 USUAL
EXISTING GROUND

PROPOSED TYPICAL SECTION
WITH NORTHBOUND LEFT TURN LANE

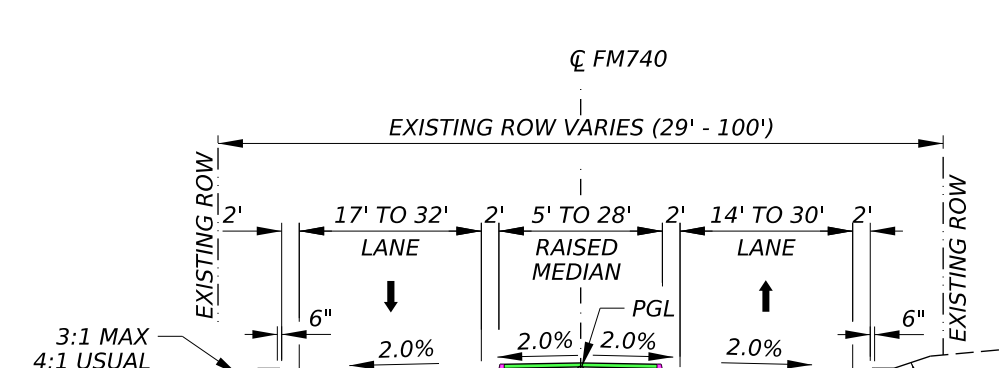

℄ FM740
EXISTING ROW VARIES (120' - 150')
6' TO 18' RAISED MEDIAN
20' DESIRABLE
20' DESIRABLE
EXISTING ROW
4' BUFFER
10' SUP
12' LANE
12' LANE
0' TO 12' TURN LANE
12' LANE
12' LANE
PGL
1.5%
2.0%
2.0%
2.0%
1.5%
3:1 MAX 4:1 USUAL
EXISTING GROUND

PROPOSED TYPICAL SECTION
WITH SOUTHBOUND LEFT TURN LANE


℄ FM740
EXISTING ROW VARIES (29' - 100')
0' TO 16' BUFFER
0' TO 11' BUFFER
23' TO 34' LANE
5' TO 28' RAISED MEDIAN
18' TO 34' LANE
2.0%
2.0%
4' TO 16' SDWK
4' TO 19' SDWK
EXISTING ROW
EXISTING ROW

EXISTING CROSS STREET TYPICAL SECTION

LITTLE GULL DR
GRAY HAWK DR
OVERLAND GROVE BLVD
SYCANMORE TRAIL
COLLEGE AVE
JSUTICE CENTER RD
ROGERS PKWY
COOL SPRINGS AVE


℄ FM740
EXISTING ROW VARIES (29' - 100')
17' TO 32' LANE
5' TO 28' RAISED MEDIAN
14' TO 30' LANE
PGL
2.0%
2.0%
2.0%
2.0%
3:1 MAX 4:1 USUAL
EXISTING GROUND
EXISTING ROW

PROPOSED CROSS STREET TYPICAL SECTION

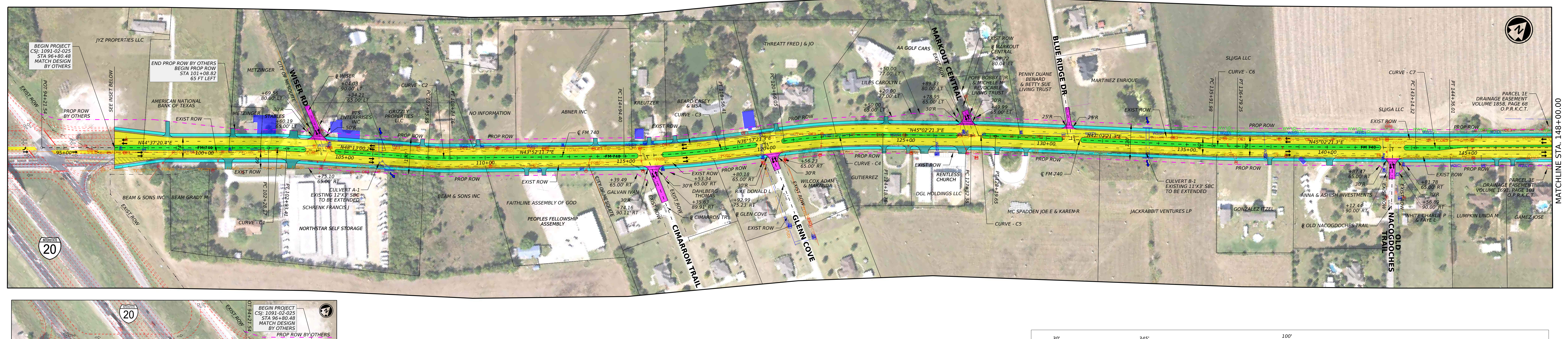
LITTLE GULL DR
GRAY HAWK DR
OVERLAND GROVE BLVD
SYCANMORE TRAIL
COLLEGE AVE
JSUTICE CENTER RD
ROGERS PKWY
COOL SPRINGS AVE

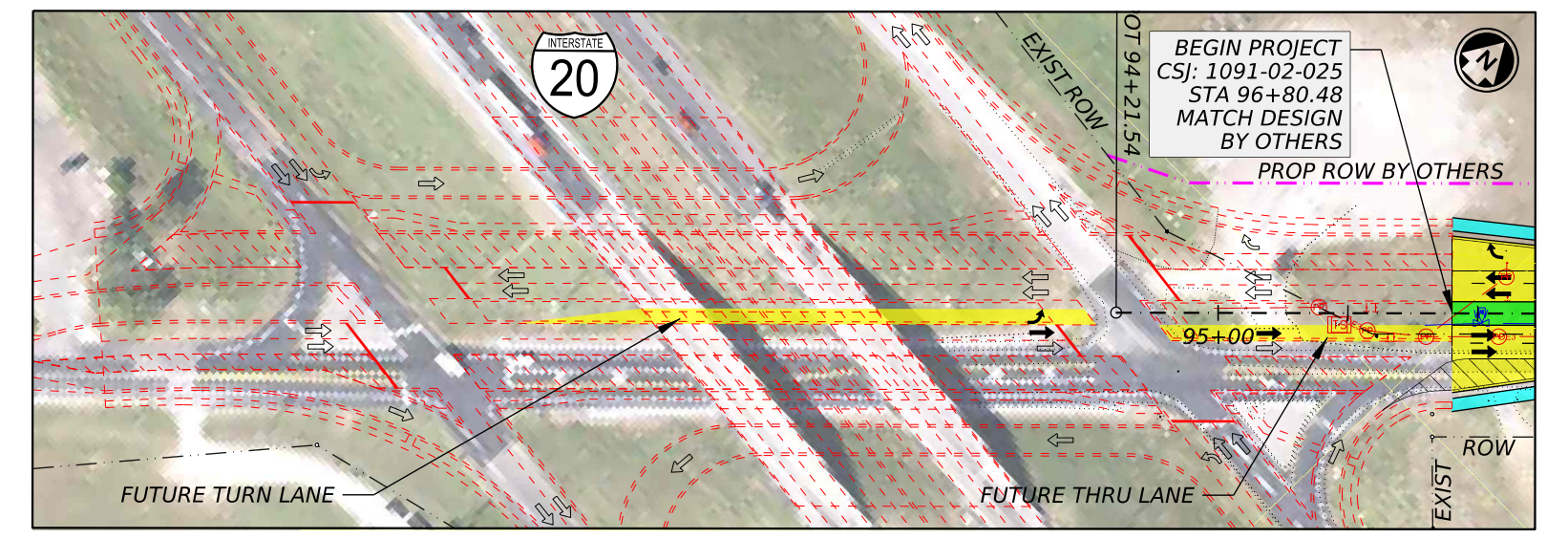
NOTES:

1. THE CONCEPTUAL SCHEMATICS ARE BASED ON FIELD SURVEY AND ARIEL SURVEY DATED DECEMBER 16,2022.
2. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATICS ARE OBTAINED FROM KAUFMAN COUNTY APPRAISAL DISTRICT (DECEMBER 2022).
3. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED ON FEMA FLOOD INSURANCE RATE MAP FROM GIS.
4. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECT THE EXISTING BUILDING STRUCTURE.
5. PROPOSED CURBS ARE TYPE II UNLESS STATED OTHERWISE.
6. LEFT TURN LANES ARE PROVIDED AT EVERY EXISTING LEFT TURN LOCATIONS ONLY.
7. ALL EXISTING DRIVEWAY ACCESS WILL REMAIN AND CONNECTIONS TO PROPOSED WIDENING AS SHOWN IN THE SCHEMATIC.

COMMUNICATIONS	
FIBER - ATT (QL-D)	FO1(D)
FIBER - CENTURY LINK (QL-D)	FO2(D)
FIBER - LEVEL 3 (QL-D)	FO3(D)
FIBER - MCI (QL-D)	FO4(D)
FIBER - PEOPLES COMMUNICATION (QL-D)	FO3(D)
FIBER - SUDDENLINK (QL-D)	FO5(D)
FIBER - ZAYO	FO6(D)
OH FIBER - ATT	OFO1
OH FIBER - SUDDENLINK	OFO3
OH CATV - SUDDENLINK	OTV1
CATV - SUDDENLINK (QL-D)	TV1(D)
TELEPHONE - ATT (QL-D)	OFO1
OH TELEPHONE - ATT	T1(D)
ELECTRIC	
ELECTRIC - KSC SOUTHERN RR (QL-D)	E1(D)
ELECTRIC - ONCOR (QLD)	E2(D)
OH ELECTRIC - ONCOR	OE2
ELECTRIC - TVEC (QL-D)	E2(D)
OH ELECTRIC - TVEC	OE3
ELECTRIC - TXDOT (QL-D)	E4(D)
ELECTRIC - UNKNOWN (QL-D)	TS1(D)
GAS	
GAS - ATMOS ENERGY (QL-D)	G1(D)
PIPELINE - SI ENERGY (QL-D)	G2(D)
PIPELINE - ATMOS ENERGY (QL-D)	PL1(D)
WATER	
WATER - CITY OF FORNEY (QL-C)	W1(C)
WATER - CITY OF FORNEY (QL-D)	W1(D)
WATER - MARKOUT WSC - MESQUITE (QL-C)	W2(C)
WATER - MARKOUT WSC - MESQUITE (QL-D)	W2(D)
WATER - NTMWD (QL-C)	W3(C)
WATER - NTMWD (QL-D)	W3(D)
WATER - UNKNOWN (QL-D)	W4(D)
WASTEWATER	
WASTEWATER - CITY OF FORNEY (QL-C)	WW1(C)
WASTEWATER - CITY OF FORNEY (QL-D)	WW1(D)
FORCE MAIN - CITY OF FORNEY (QL-D)	
WASTEWATER - NTMWD (QL-D)	WW1(D)
WASTEWATER - UNKNOWN (QL-C)	WW2(C)
WASTEWATER - UNKNOWN (QL-D)	WW2(D)
STORM SEWER	
STORM SEWER - TXDOT (QL-C)	STM1(C)
STORM SEWER - TXDOT (QL-D)	STM1(D)
STORM SEWER - UNKNOWN (QL-D)	STM2(D)

FINAL LOCATIONS OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF FORNEY AND KAUFMAN COUNTY

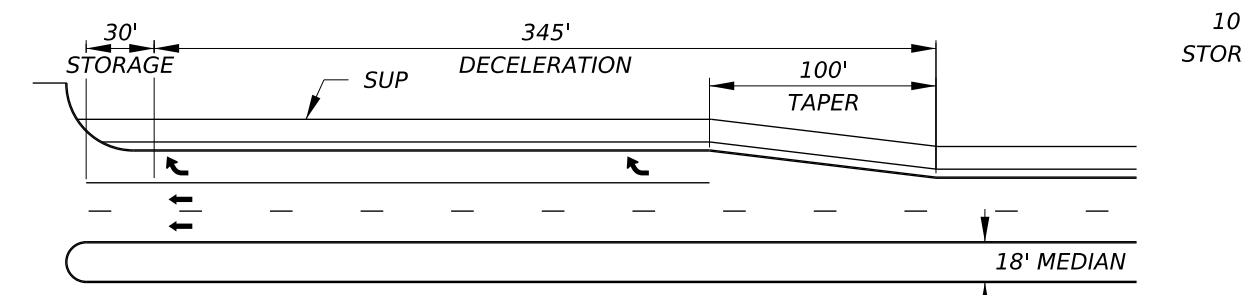

20
MATCHLINE STA. 148+00.00


INTERSTATE 20
BEGIN PROJECT
CSJ: 1091-02-025
STA 96+80.48
MATCH DESIGN
BY OTHERS
PROP ROW BY OTHERS
EXIST ROW
95+00
FUTURE TURN LANE
FUTURE THRU LANE
ROW

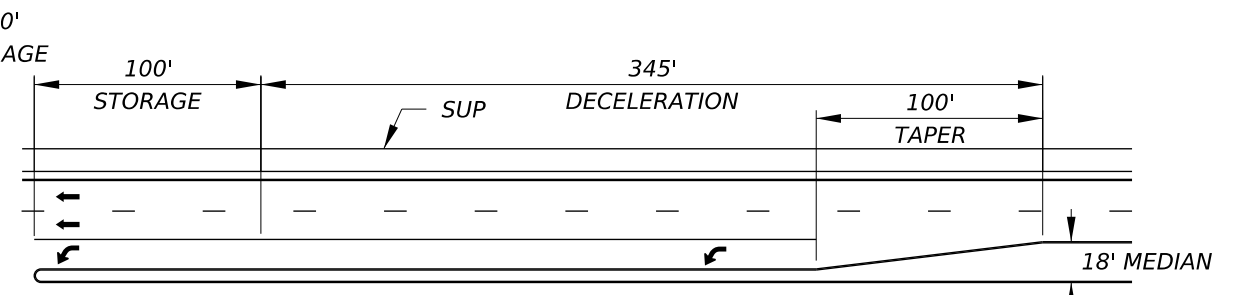
INSET (DESIGN BY OTHERS)

CURVE DATA

CURVE NO.	P.I. STATION	P.I. STATION - N	P.I. STATION - E	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING	CHORD LENGTH	P.C. STATION	P.T. STATION	BACK TANGENT	AHEAD TANGENT
C1	102+60.798	6944977.594	2584520.789	3.594° RT	1,040.000'	32.632'	65.243'	N 46.420° E	65.233'	102+28.166	102+60.798	N 44.622° E	N 48.217° E
C2	108+35.324	6945360.424	2584949.212	4.347° LT	1,040.000'	39.469'	78.901'	N 46.043° E	78.882'	107+95.855	108+74.756	N 48.217° E	N 43.870° E
C3	116+75.623	6945966.235	2585531.585	6.914° LT	3,000.000'	181.228'	362.016'	N 40.413° E	361.796'	114+94.396	118+56.411	N 43.870° E	N 36.956° E
C4	122+42.699	6946419.736	2585872.775	8.083° RT	2,500.000'	176.644'	352.702'	N 40.998° E	352.410'	120+66.055	124+18.757	N 36.956° E	N 45.039° E
C5	127+76.018	6946797.005	2586250.562	2.000° RT	2,500.000'	43.638'	87.266'	N 46.039° E	87.262'	127+32.380	128+19.647	N 45.039° E	N 47.039° E
C6	136+35.620	6947382.828	2586879.644	2.000° LT	2,500.000'	43.638'	87.266'	N 46.039° E	87.262'	135+91.983	136+79.249	N 47.039° E	N 45.039° E
C7	143+75.164	6947905.412	2587402.944	0.697° LT	10,000.000'	60.843'	121.685'	N 44.691° E	121.684'	143+14.321	144+36.006	N 45.039° E	N 44.342° E


30' STORAGE
345' DECELERATION
100' TAPER
SUP
18' MEDIAN

RIGHT-TURN BAY DETAIL (TYPICAL)
NTS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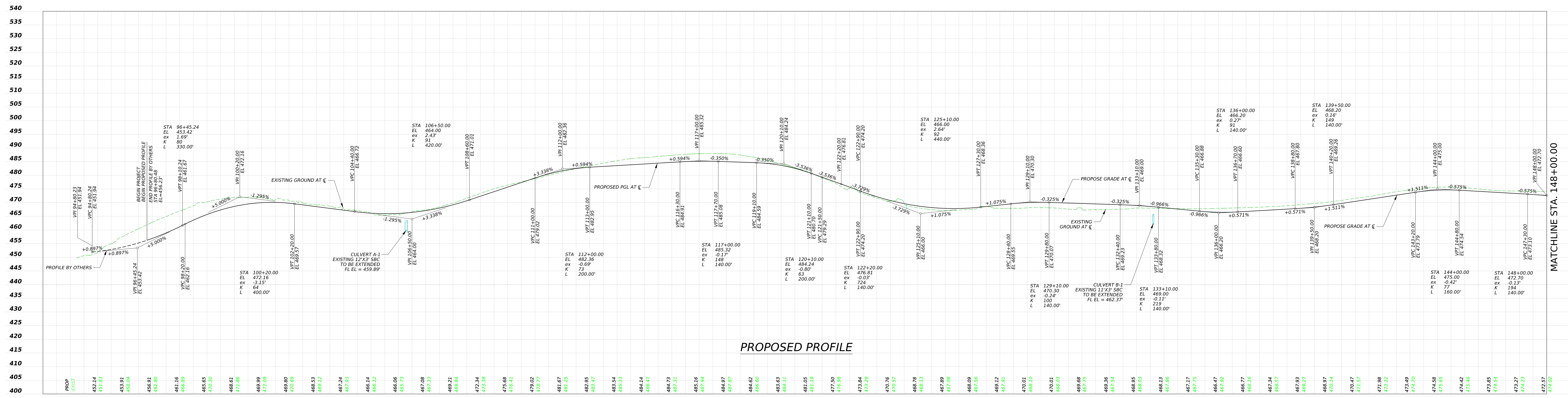

PROPOSED PROFILE

Texas Department of Transportation

DALLAS DISTRICT
CEASON CLEMENS P.E., DISTRICT ENGINEER

FM 740 AND FM 548
CONCEPTUAL SCHEMATIC

KAUFMAN COUNTY, TEXAS

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DATE: APRIL 2023

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URBAN STREET	45 MPH	URBAN ARTERIAL

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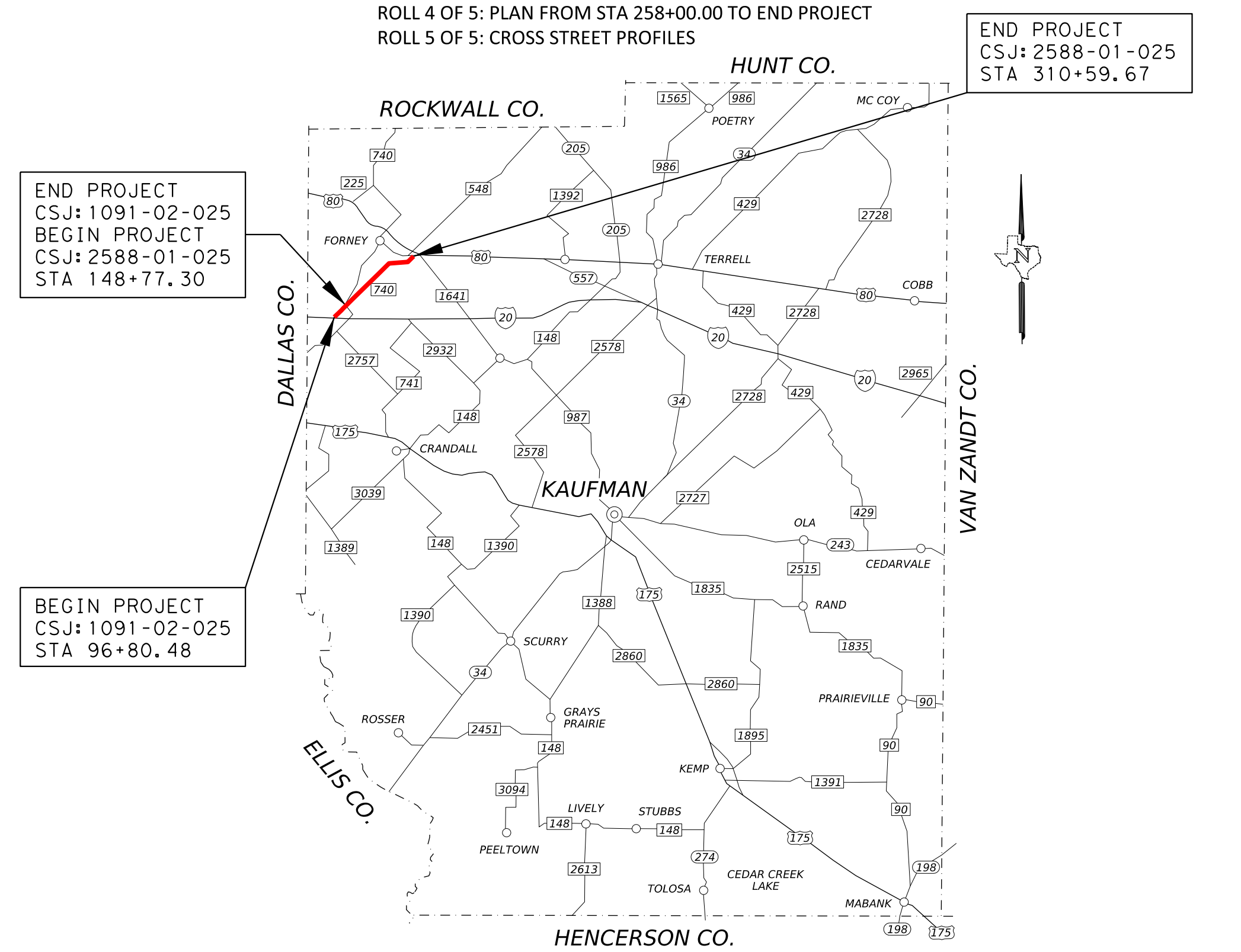
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ROCKWALL CO.
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DALLAS CO.
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LOCATION MAP

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ROLL 1 OF 5
SCALE 1" = 100'

LEGEND

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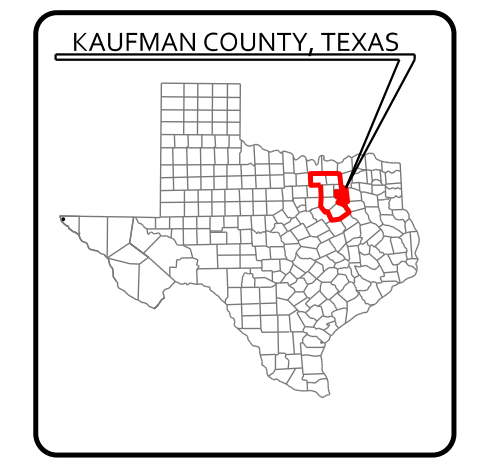
⋀ PROPOSED RETAINING WALL

0 100 200
HORIZONTAL
GRAPHIC SCALE IN FEET


KAUFMAN COUNTY, TEXAS

TEXAS COUNTY MAP
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