**Texas Department of Transportation**

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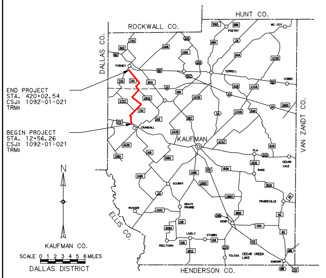
DALLAS DISTRICT
CONCEPTUAL SCHEMATIC
MOHAMED K. BUR, P.E., DISTRICT ENGINEER
KAUFMAN COUNTY
FM 741
PROJECT LIMIT: FROM US 175
TO FM 548
CSJ: 1092-01-021
FM 741 FUNCTIONAL CLASS: URBAN ARTERIAL
DESIGN SPEED: 45 MPH FM 741
30 MPH CROSS STREETS
PROJECT LENGTH: 7.717 MILES
WIDEN 2 LANE ROADWAY TO 4 LANE DIVIDED


HUNT CO.
ROCKWALL CO.
DALLAS CO.
VAN ZANDT CO.
ELLIS CO.
HENDERSON CO.
KAUFMAN
FORNEY
CRANDALL
TERRELL
POETRY
COBBS
OLA
CEDAR-VALE
RAND
SCURRY
ROSSER
GRAYS PRAIRIE
PRAIRIEVILLE
KEMP
LIVELY
STUBBS
PEELTOWN
TOLOSA
CEDAR CREEK LAKE
MABANK
END PROJECT
STA. 420+02.54
CSJ: 1092-01-021
TRM:
BEGIN PROJECT
STA. 12+56.26
CSJ: 1092-01-021
TRM:
N
KAUFMAN CO.
SCALE 0 1 2 3 4 5 6 MILES
DALLAS DISTRICT

LOCATION MAP

***30% SCHEMATIC***

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

| ABENET BEKELE | 86055 | 9/17/20 |
|---|---|---|
| NAME | P.E. NO. | DATE |

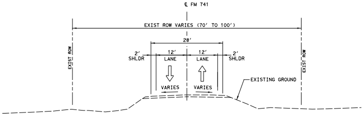
SEPTEMBER 2020
SCALE: 1"=100'
ROLL 1 OF 7

SHEET INDEX

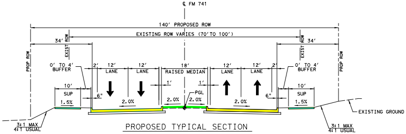
ROLL 1: PLAN AND PROFILE - BEGIN PROJECT TO NORTH OF VENNER CIRCLE
ROLL 2: PLAN AND PROFILE - NORTH OF VENNER CIRCLE TO NORTH OF FM 2757
ROLL 3: PLAN AND PROFILE - NORTH OF FM 2757 TO NORTH OF COUNTY WOODS ROAD
ROLL 4: PLAN AND PROFILE - NORTH OF COUNTY WOODS ROAD TO NORTH OF SUNNYBROOK DRIVE
ROLL 5: PLAN AND PROFILE - NORTH OF SUNNYBROOK DRIVE TO NORTH OF LEONA STREET
ROLL 6: PLAN AND PROFILE - NORTH OF LEONA STREET TO NORTH OF GOLDEN MEADOW LANE
ROLL 7: PLAN AND PROFILE - NORTH OF GOLDEN MEADOW LANE TO SOUTH OF FM 548

0' 50' 100' 200'
HORIZONTAL
0' 5' 10' 20'
VERTICAL
GRAPHIC SCALES IN FEET

**Lockwood, Andrews & Newnam, Inc.**
A LEO A DALY COMPANY
TBPE FIRM REGISTRATION NO. 2614

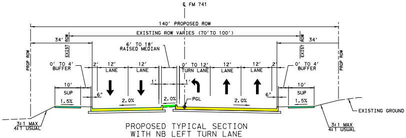

℄ FM 741
EXIST ROW VARIES (70' TO 100')
28'
2' SHLDR
12' LANE
12' LANE
2' SHLDR
VARIES
VARIES
EXIST ROW
EXISTING GROUND

EXISTING TYPICAL SECTION
BEGIN PROJECT TO END PROJECT


℄ FM 741
140' PROPOSED ROW
EXISTING ROW VARIES (70' TO 100')
34'
PROP ROW
EXIST ROW
0' TO 4' BUFFER
10' SUP
1.5%
6"
2'
12' LANE
18' RAISED MEDIAN
1'
2.0%
PGL
EXISTING GROUND
3:1 MAX
4:1 USUAL

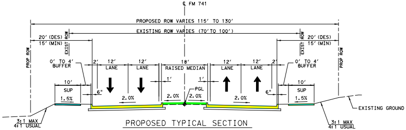
PROPOSED TYPICAL SECTION

STA 12+98.14 TO STA 13+84.00
STA 17+79.00 TO STA 53+52.00
STA 60+75.00 TO STA 106+48.00


℄ FM 741
140' PROPOSED ROW
EXISTING ROW VARIES (70' TO 100')
34'
6' TO 18' RAISED MEDIAN
PROP ROW
EXIST ROW
0' TO 4' BUFFER
10' SUP
1.5%
6"
2'
12' LANE
0' TO 12' TURN LANE
1'
2.0%
PGL
EXISTING GROUND
3:1 MAX
4:1 USUAL

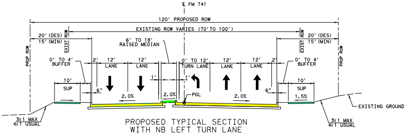
PROPOSED TYPICAL SECTION
WITH NB LEFT TURN LANE

STA 13+84.00 TO STA 17+79.00
STA 53+52.00 TO STA 60+75.00
STA 106+48.00 TO STA 111+58.00


℄ FM 741
PROPOSED ROW VARIES 115' TO 130'
EXISTING ROW VARIES (70' TO 100')
20' (DES)
15' (MIN)
PROP ROW
EXIST ROW
0' TO 4' BUFFER
10' SUP
1.5%
6"
2'
12' LANE
18' RAISED MEDIAN
1'
2.0%
PGL
EXISTING GROUND
3:1 MAX
4:1 USUAL

PROPOSED TYPICAL SECTION

| | | |
|---|---|---|
| STA 111+58.00 TO STA 154+11.00 | STA 258+21.21 TO STA 258+40.21 | STA 317+25.26 TO STA 318+64.26 |
| STA 159+06.00 TO STA 172+50.00 | STA 267+71.21 TO STA 285+44.71 | STA 323+61.92 TO STA 341+93.63 |
| STA 175+00.00 TO STA 189+88.12 | STA 290+39.37 TO STA 296+15.20 | STA 347+11.51 TO STA 363+43.03 |
| STA 194+83.12 TO STA 198+30.00 | STA 301+50.93 TO STA 304+61.81 | STA 368+88.04 TO STA 389+05.04 |
| STA 200+80.00 TO STA 218+80.21 | | STA 394+00.04 TO STA 398+75.04 |
| STA 228+70.21 TO STA 240+69.21 | | STA 403+80.04 TO STA 406+79.04 |
| STA 246+14.21 TO STA 251+86.21 | | STA 411+74.04 TO STA 420+01.54 |

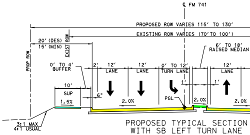

℄ FM 741
120' PROPOSED ROW
EXISTING ROW VARIES (70' TO 100')
20' (DES)
15' (MIN)
6' TO 18' RAISED MEDIAN
PROP ROW
EXIST ROW
0' TO 4' BUFFER
10' SUP
1.5%
6"
2'
12' LANE
0' TO 12' TURN LANE
1'
2.0%
PGL
EXISTING GROUND
3:1 MAX
4:1 USUAL

PROPOSED TYPICAL SECTION
WITH NB LEFT TURN LANE

| | |
|---|---|
| STA 13+84.00 TO STA 17+79.00 | STA 240+69.21 TO STA 246+14.21 |
| STA 55+80.00 TO STA 60+75.00 | STA 254+54.06 TO STA 258+21.21 |
| STA 106+48.00 TO STA 111+58.00 | STA 258+40.21 TO STA 262+91.41 |
| STA 154+11.00 TO STA 159+06.00 | STA 318+64.26 TO STA 323+61.92 |
| STA 218+80.21 TO STA 223+75.03 | STA 363+43.04 TO STA 368+88.04 |

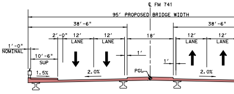
LEGEND

| | |
|---|---|
| → | DIRECTION OF TRAFFIC |
| — — — | EXISTING ROW |
| ▨ | EXISTING CROSS STREET PAVEMENT TO BE REMOVED |
| — — — | PROPOSED ROW |
| 🟨 | PROPOSED MAIN LANE PAVEMENT |
| 🟥 | PROPOSED BRIDGE |
| 🟪 | PROPOSED CROSS STREET PAVEMENT |
| 🟦 | PROPOSED SIDEWALK |
| 🟩 | PROPOSED MEDIAN |
| 🟧 | PROPOSED DRIVEWAY |
| 🟦 | DISPLACEMENTS |
| ▨ | 100 YEAR FLOODPLAIN LIMITS |
| — — — | CITY LIMIT LINE |


℄ FM 741
PROPOSED ROW VARIES 115' TO 130'
EXISTING ROW VARIES (70' TO 100')
20' (DES)
15' (MIN)
6' TO 18' RAISED MEDIAN
PROP ROW
EXIST ROW
0' TO 4' BUFFER
10' SUP
1.5%
6"
2'
12' LANE
0' TO 12' TURN LANE
1'
2.0%
PGL
3:1 MAX
4:1 USUAL

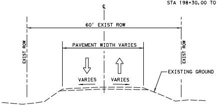
PROPOSED TYPICAL SECTION
WITH SB LEFT TURN LANE

| | |
|---|---|
| STA 189+88.12 TO STA 194+83.12 | STA 296+15.20 TO |
| STA 223+75.03 TO STA 228+70.21 | STA 341+93.63 TO |
| STA 251+86.21 TO STA 255+53.71 | STA 389+05.04 TO |
| STA 262+91.41 TO STA 267+71.21 | STA 398+75.04 TO |
| STA 285+44.71 TO STA 290+39.37 | STA 406+79.04 TO |


℄ FM 741
95' PROPOSED BRIDGE WIDTH
38'-6"
38'-6"
1'-0" NOMINAL
10'-6" SUP
1.5%
2'-0"
12' LANE
18'
1'
2.0%
PGL

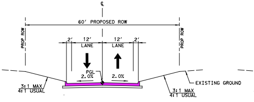
PROPOSED BRIDGE SECTION

STA 172+50.00 TO STA 175+00.00
STA 198+30.00 TO STA 200+80.00


℄
60' EXIST ROW
PAVEMENT WIDTH VARIES
VARIES
VARIES
EXIST ROW
EXISTING GROUND

EXISTING TYPICAL SECTION
SIDE STREETS

VENNER CIR
BLACKLAND RD
COUNTY WOODS RD
HIGH COUNTRY LN
DOZIER CIR
PRECEINCT RD
LEWIS CIR
WINDY LN


℄
60' PROPOSED ROW
PROP ROW
2'
12' LANE
PGL
2.0%
EXISTING GROUND
3:1 MAX
4:1 USUAL

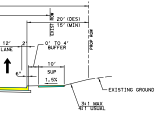
PROPOSED TYPICAL SECTION
SIDE STREETS

BLACKLAND RD
COUNTY WOODS RD

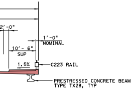
EXIST ROW
EX
EXIST ROW
3:1 MAX
4:1 USUAL
PROP

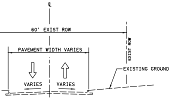
NOTES:

1. THE DESIGN SCHEMATICS WERE BASED ON FIELD SURVEY AND AERIAL SURVEY DATED APRIL 13, 2020.
2. OWNERSHIP INFORMATION SHOWN ON THE SCHEMATICS WERE OBTAINED FROM KAUFMAN COUNTY APPRAISAL DISTRICT (JUNE, 2020).
3. APPROXIMATE 100 YEAR FLOODPLAIN LIMITS WERE BASED ON FEMA FLOOD INSURANCE RATE MAP.
4. BUILDINGS ARE SHOWN AS POTENTIAL DISPLACEMENTS IF THE PROPOSED ROW PHYSICALLY INTERSECTS THE EXISTING BUILDING STRUCTURE.
5. PROPOSED CURBS ARE TYPE II UNLESS STATED OTHERWISE.
6. EXISTING SKEWED INTERSECTIONS WERE REALIGNED TO IMPROVE SAFETY AT INTERSECTIONS.
7. ADA RAMPS AND SIDEWALKS ARE DIAGRAMMATIC ONLY AND WILL BE DESIGNED DURING PS&E. SIDEWALKS ARE SHOWN ON THE TYPICAL SECTIONS AND PLAN VIEW.
8. TRAFFIC PROJECTIONS ARE CURRENTLY IN PROGRESS. TRAFFIC STICK-DIAGRAMS WILL BE PROVIDED IN THE 60% SCHEMATIC.
9. CONVENTIONAL ROADWAY SIGNAGE (SMALL SIGNS) ARE NOT SHOWN AND WILL BE DEVELOPED DURING THE PS&E PHASE OF THE PROJECT.
10. FINAL LOCATIONS OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF FORNEY AND KAUFMAN COUNTY.


EXIST ROW
20' (DES)
15' (MIN)
PROP ROW
12'
LANE
2'
0' TO 4'
BUFFER
6"
10'
SUP
1.5%
EXISTING GROUND
3:1 MAX
4:1 USUAL

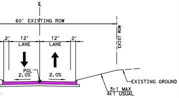
STA 301+50.93
STA 347+11.51
STA 394+00.04
STA 403+79.04
STA 411.74.04


2'-0"
1'-0"
NOMINAL
10'- 6"
SUP
1.5%
C223 RAIL
PRESTRESSED CONCRETE BEAM
TYPE TX28, TYP


℄
60' EXIST ROW
PAVEMENT WIDTH VARIES
EXIST ROW
EXISTING GROUND
VARIES
VARIES

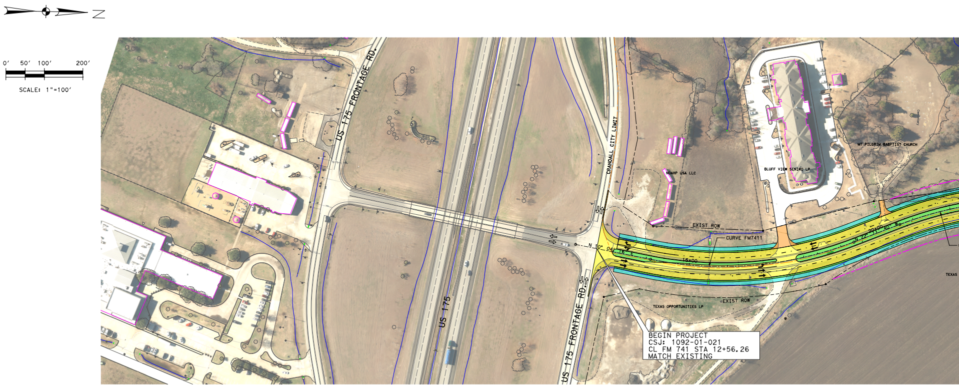
ISTING TYPICAL SECTION
SIDE STREETS

MOONLIGHT TRAIL

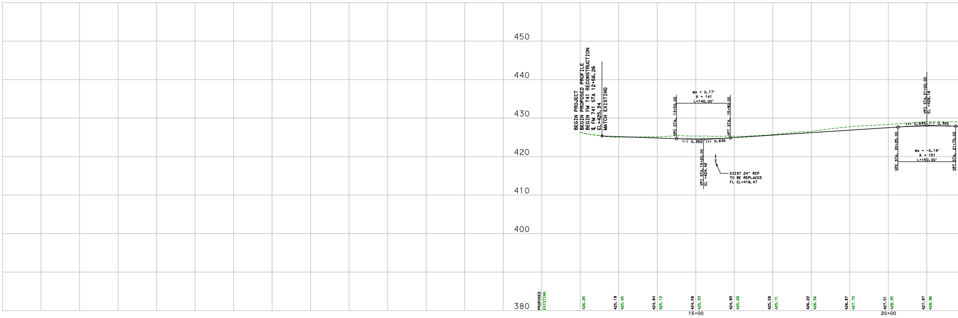

℄
60' EXISTING ROW
EXIST ROW
2'
12'
LANE
12'
LANE
2'
PGL
2.0%
2.0%
EXISTING GROUND
3:1 MAX
4:1 USUAL

OSED TYPICAL SECTION
SIDE STREETS

VENNER CIR
HIGH COUNTRY LN
DOZIER CIR
PRECINET RD
LEWIS CIR
WINDY LANE
MOONLIGHT TRAIL

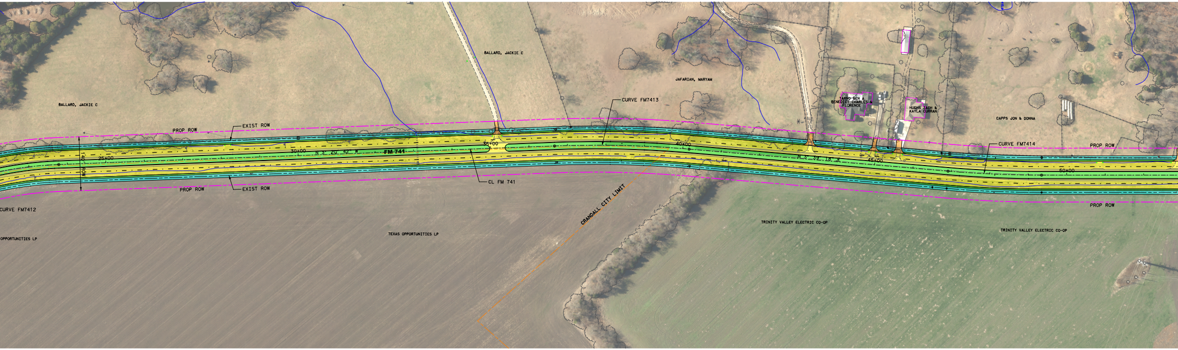

N
0'
50'
100'
200'
SCALE: 1"=100'
US 175 FRONTAGE RD.
US 175
US 175 FRONTAGE RD.
CRANDALL CITY LIMIT
NOAHP USA LLC
BLUFF VIEW SENIRO LP
MT PILGRIM BABPTIST CHURCH
EXIST ROW
CURVE FM7411
N 10° 04'
15+00
20+00
N 22° 11' 40" W
EXIST ROW
TEXAS OPPORTUNITIES LP
TEXAS

BEGIN PROJECT
CSJ: 1092-01-021
CL FM 741 STA 12+56.26
MATCH EXISTING

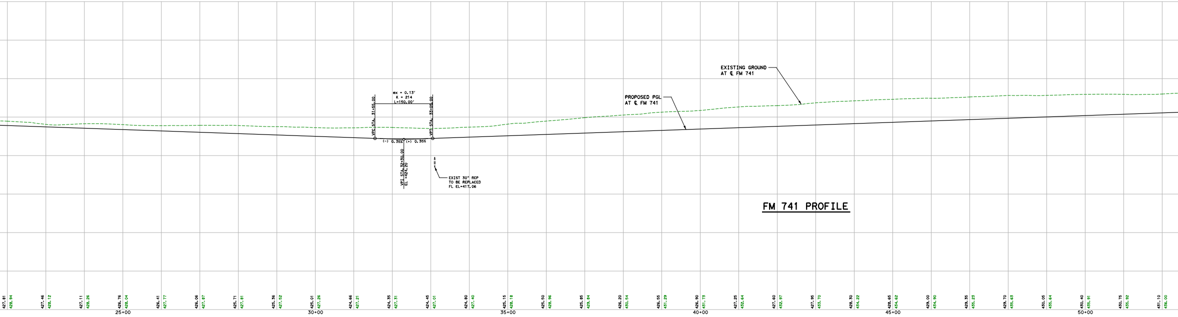


CL FM 741 ALIGNMENT DATA

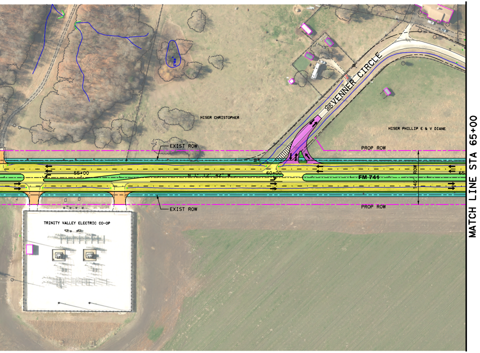
| CURVE NO. | P.I. STATION | P.I. STATION - N | P.I. STATION - E | DELTA | RADIUS | DEGREE | TANGENT | LENGTH | CHORD BEARING | CHORD LENGTH | P.C. STATION | P.T. STATION | BACK TANGENT | AHEAD TANGENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FM7411 | 16+74.35 | 6,921,632.63 | 2,594,721.38 | 32° 15′ 56.83" (LT) | 955.00′ | 5° 59′ 58.41" | 276.24′ | 537.80′ | N 6° 03′ 41.98" W | 530.72′ | 13+98.11 | 19+35.91 | N 10° 04′ 16.43" E | N 22° 11′ 40.40" W |
| FM7412 | 22+22.00 | 6,922,153.30 | 2,594,508.96 | 18° 50′ 58.34" (RT) | 955.00′ | 5° 59′ 58.41" | 158.52′ | 314.18′ | N 12° 46′ 11.23" W | 312.77′ | 20+63.47 | 23+77.66 | N 22° 11′ 40.40" W | N 3° 20′ 42.06" W |
| FM7413 | 38+41.60 | 6,923,773.00 | 2,594,414.29 | 7° 00′ 00.00" (RT) | 2,864.82′ | 1° 59′ 59.92" | 175.22′ | 350.00′ | N 0° 09′ 17.94" E | 349.79′ | 36+66.38 | 40+16.39 | N 3° 20′ 42.06" W | N 3° 39′ 17.94" E |
| FM7414 | 48+13.24 | 6,924,743.10 | 2,594,476.26 | 4° 52′ 00.00" (LT) | 2,864.79′ | 2° 00′ 00.00" | 121.74′ | 243.33′ | N 1° 13′ 17.94" E | 243.26′ | 46+91.50 | 49+34.83 | N 3° 39′ 17.94" E | N 1° 12′ 42.06" W |

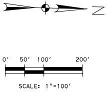

BALLARD, JACKIE C
BALLARD, JACKIE C
JAFARIAN, MARYAM
TARNO BEN A
BENEDICT CHARLES &
FLORENCE
HUGHS ZACH &
KAYLA CURRAN
CAPPS JON & DONNA
CURVE FM7413
CURVE FM7414
CURVE FM7412
PROP ROW
EXIST ROW
PROP ROW
EXIST ROW
PROP ROW
PROP ROW
140' ROW
25+00
30+00
35+00
40+00
45+00
50+00
N 3° 20' 42" W
N 3° 39' 18" E
FM 741
CL FM 741
CRANDALL CITY LIMIT
OPPORTUNITIES LP
TEXAS OPPORTUNITIES LP
TRINITY VALLEY ELECTRIC CO-OP
TRINITY VALLEY ELECTRIC CO-OP

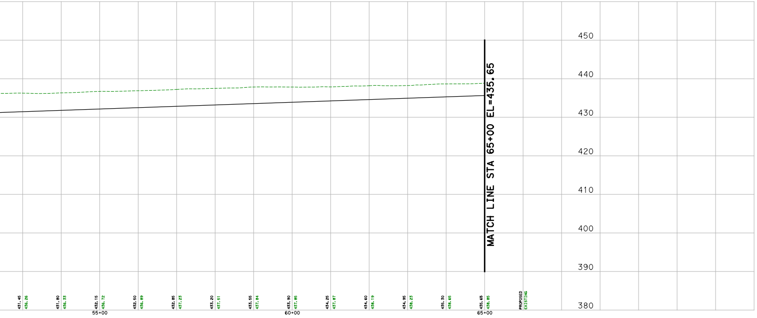
FINAL LOCATIONS OF MEDIAN OPENINGS WILL BE DETERMINED IN THE PS&E DEVELOPMENT PHASE IN COORDINATION WITH THE CITY OF FORNEY AND KAUFMAN COUNTY


EXISTING GROUND
AT ℄ FM 741
PROPOSED PGL
AT ℄ FM 741
ex = 0.13'
K = 214
L=150.00'
VPC STA. 31+55.00
VPT STA. 33+05.00
(-) 0.35%
(+) 0.35%
VPI STA. 32+30.00
EL =424.20
EXIST 30" RCP
TO BE REPLACED
FL EL=417.06
427.81 428.94
427.46 428.12
427.11 428.26
426.76 428.04
426.41 427.77
426.06 427.87
425.71 427.81
425.36 427.52
425.01 427.26
424.66 427.21
424.35 427.31
424.45 427.01
424.80 427.40
425.15 428.18
425.50 428.96
425.85 429.84
426.20 430.54
426.55 431.29
426.90 431.73
427.25 432.64
427.60 432.97
427.95 433.70
428.30 434.22
428.65 434.62
429.00 434.90
429.35 435.23
429.70 435.63
430.05 435.64
430.40 435.91
430.75 435.92
431.10 436.00
25+00
30+00
35+00
40+00
45+00
50+00

FM 741 PROFILE


VENNER CIRCLE
HISER CHRISTOPHER
HISER PHILLIP E & V DIANE
EXIST ROW
PROP ROW
55+00
60+00
FM 741
140' ROW
EXIST ROW
PROP ROW
TRINITY VALLEY ELECTRIC CO-OP
MATCH LINE STA 65+00


N
0'
50'
100'
200'
SCALE: 1"=100'



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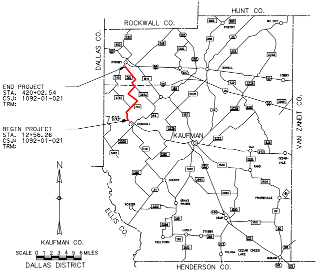
HUNT CO.
ROCKWALL CO.
DALLAS CO.
VAN ZANDT CO.
ELLIS CO.
HENDERSON CO.
END PROJECT
STA. 420+02.54
CSJ: 1092-01-021
TRM:
BEGIN PROJECT
STA. 12+56.26
CSJ: 1092-01-021
TRM:
FORNEY
POETRY
TERRELL
CRANDALL
KAUFMAN
SCURRY
ROSSER
GRAYS PRAIRIE
KEMP
OLA
RAND
CEDARVALE
PRAIRIEVILLE
MABANK
CEDAR CREEK LAKE
TOLOSA
LIVELY
STUBBS
PEELTOWN
COBBS
MC COY
741
N
KAUFMAN CO.
SCALE 0 1 2 3 4 5 6 MILES
DALLAS DISTRICT

LOCATION MAP

**30% SCHEMATIC**

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| ABENET BEKELE | 86055 | 9/17/20 |
|---|---|---|
| NAME | P.E. NO. | DATE |

SEPTEMBER 2020
SCALE: 1"=100'
ROLL 1 OF 7

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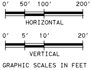

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