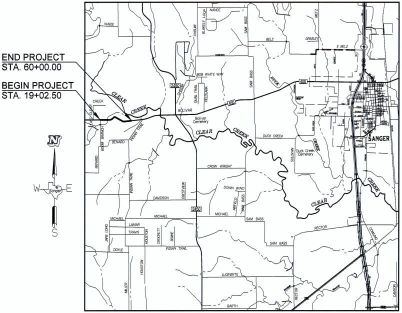
TEXAS DEPARTMENT OF TRANSPORTATION

DALLAS DISTRICT
DESIGN SCHEMATIC
WILLIAM L. HALE, P.E. DISTRICT ENGINEER

FM 455

(RURAL MAJOR COLLECTOR)
DENTON COUNTY
CSJ: 0816-02-053
PROJECT LENGTH: 0.776 MILES
LIMITS: FROM EAST CLEAR CREEK ROAD
TO INDIAN TRAIL ROAD
DESIGN SPEED = 50 MPH
OCTOBER 2007



END PROJECT
STA. 60+00.00
BEGIN PROJECT
STA. 19+02.50
N
W
E
S
Sanger
WAIDE
NANCE
CHISUM
BLAKELY LOOP
SAM BASS
METZ
BELZ
GRIMLEY
E BELZ
BOB WHITE WAY
2450
455
DUCK
CLEAR
CREEK
QUAIL TRAIL
FIELDLARK
BOLIVAR
Bolivar Cemetery
INDIAN TRAIL
BOOM BRANCH
BENARD
DUCK CREEK
Duck Creek Cemetery
SULLIVAN
SANGER
CROW WRIGHT
DOWN WIND
AIRFIELD
DAVIDSON
CRESTVIEW
MICHAEL
LAMAR
TRAVIS
HOUSTON
CROCKETT
BOWIE
JANE LONG
DOYLE
MILLER
RECTOR
COWLING
LUGINBYTE
BARTH
CANYON

NOT TO SCALE

FM 455 TRAFFIC DATA	
YEAR	ADT
2002	1,250
2022	2,290

SOURCE: NORTH CENTRAL TEXAS COUNCIL
OF GOVERNMENTS (NCTCOG)

ROLL 1 OF 1

Texas Department of Transportation

TranSystems®

Joseph C. Masterson 10/26/07
JOSEPH C. MASTERSON, P.E. 64170

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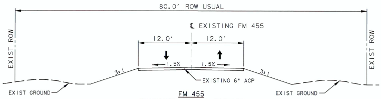
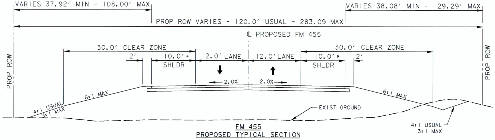


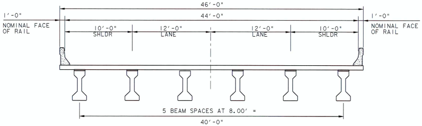
80.0' ROW USUAL
℄ EXISTING FM 455
12.0'
12.0'
1.5%
1.5%
3:1
3:1
EXIST ROW
EXIST ROW
EXISTING 6" ACP
EXIST GROUND
EXIST GROUND

FM 455
EXISTING TYPICAL SECTION
NTS



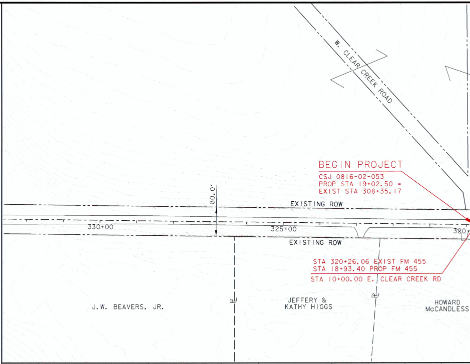
VARIES 37.92' MIN - 108.00' MAX
VARIES 38.08' MIN - 129.29' MAX
PROP ROW VARIES - 120.0' USUAL - 283.09 MAX
℄ PROPOSED FM 455
30.0' CLEAR ZONE
30.0' CLEAR ZONE
2'
10.0'*
SHLDR
12.0' LANE
12.0' LANE
10.0'*
SHLDR
2'
2.0%
2.0%
PROP ROW
PROP ROW
6:1 MAX
6:1 MAX
4:1 USUAL
3:1 MAX
EXIST GROUND
4:1 USUAL
3:1 MAX

FM 455
PROPOSED TYPICAL SECTION
NTS
STA 19+02.50 TO STA 60+00.00
* SHOULDER VARIES 0' TO 10' STA 19+02.50 TO STA 23+85.84
* SHOULDER VARIES STA 10' TO 0' 55+00.27 TO STA 60+00.00

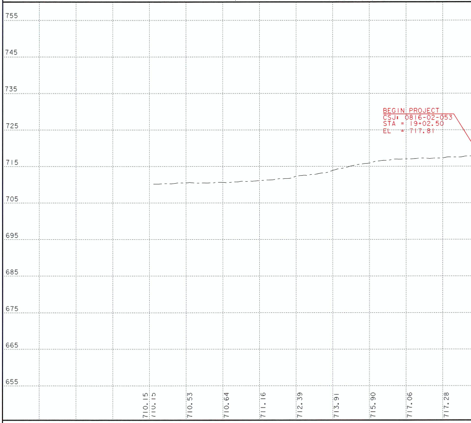


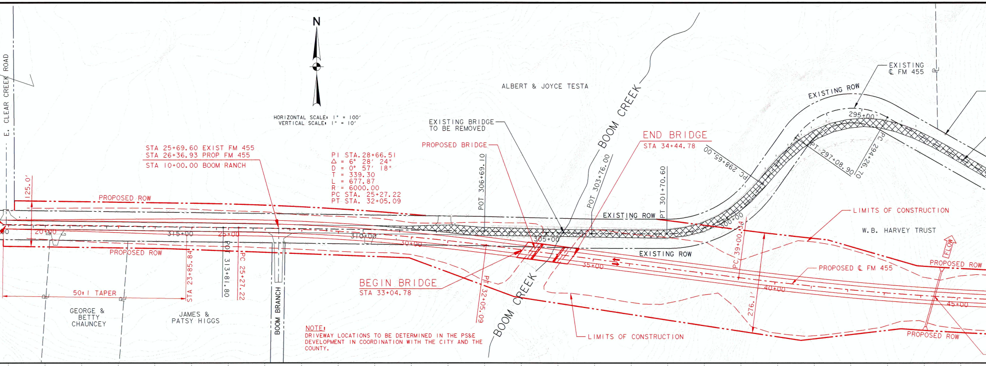
46'-0"
44'-0"
1'-0"
NOMINAL FACE OF RAIL
1'-0"
NOMINAL FACE OF RAIL
10'-0"
SHLDR
12'-0"
LANE
12'-0"
LANE
10'-0"
SHLDR
5 BEAM SPACES AT 8.00' =
40'-0"

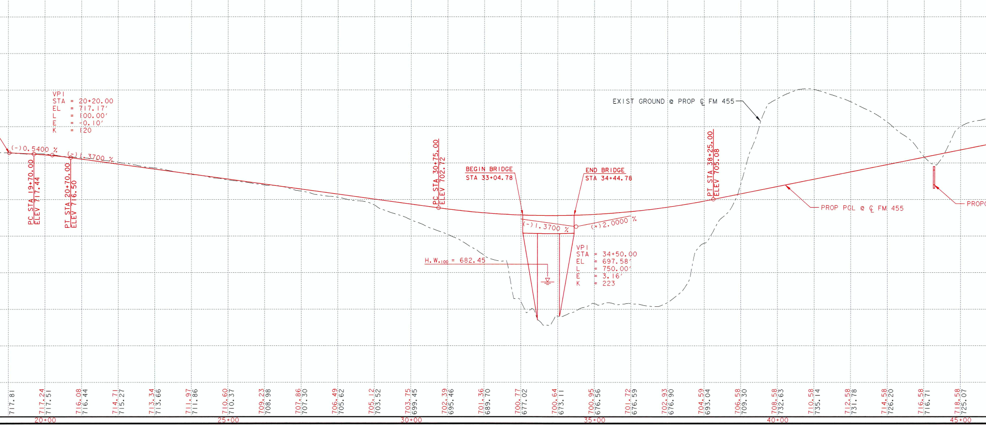
FM 455
PROPOSED BRIDGE TYPICAL SECTION
NTS

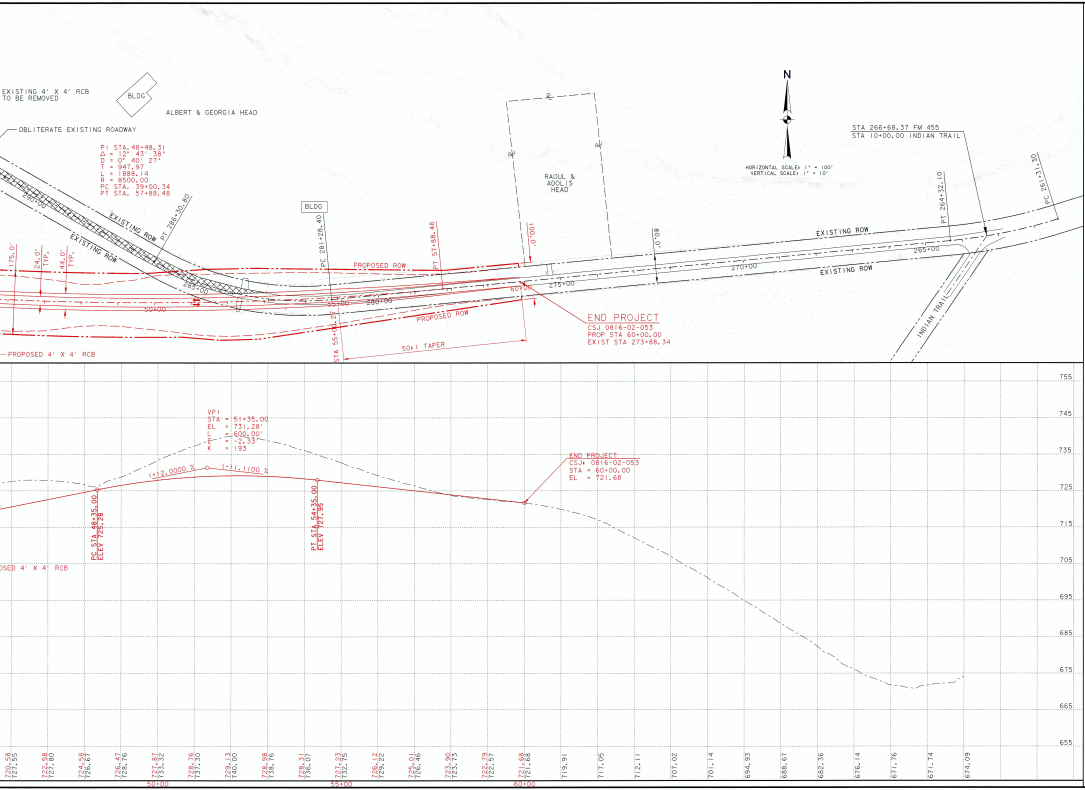


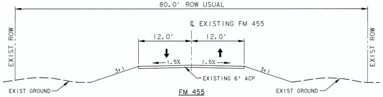
W. CLEAR CREEK ROAD
BEGIN PROJECT
CSJ 0816-02-053
PROP STA 19+02.50 =
EXIST STA 308+35.17
80.0'
EXISTING ROW
330+00
325+00
320+
EXISTING ROW
STA 320+26.06 EXIST FM 455
STA 18+93.40 PROP FM 455
STA 10+00.00 E. CLEAR CREEK RD
J.W. BEAVERS, JR.
PL
JEFFERY &
KATHY HIGGS
PL
HOWARD
McCANDLESS



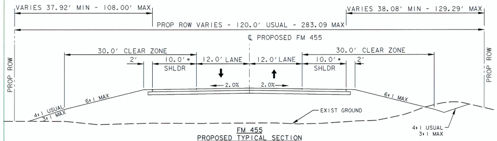

N
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'
E. CLEAR CREEK ROAD
ALBERT & JOYCE TESTA
EXISTING BRIDGE TO BE REMOVED
PROPOSED BRIDGE
BOOM CREEK
END BRIDGE
STA 34+44.78
EXISTING ℄ FM 455
EXISTING ROW
295+00
PT 297+08.90
PC 294+26.70
PC 298+65.00
STA 25+69.60 EXIST FM 455
STA 26+36.93 PROP FM 455
STA 10+00.00 BOOM RANCH
PI STA. 28+66.51
Δ = 6° 28′ 24"
D = 0° 57′ 18"
T = 339.30
L = 677.87
R = 6000.00
PC STA. 25+27.22
PT STA. 32+05.09
POT 306+69.10
POT 303+76.00
PT 301+70.60
125.0′
PROPOSED ROW
EXISTING ROW
LIMITS OF CONSTRUCTION
W.B. HARVEY TRUST
FLOW
20+00
315+00
25+00
310+00
30+00
305+00
35+00
40+00
45+00
PC 39+00.04
276.1′
PROPOSED ℄ FM 455
STA 23+85.84
POT 313+81.80
PC 25+27.22
PT 32+05.09
BEGIN BRIDGE
STA 33+04.78
50:1 TAPER
GEORGE & BETTY CHAUNCEY
JAMES & PATSY HIGGS
BOOM BRANCH
NOTE:
DRIVEWAY LOCATIONS TO BE DETERMINED IN THE PS&E DEVELOPMENT IN COORDINATION WITH THE CITY AND THE COUNTY.
LIMITS OF CONSTRUCTION
PROPOSED ROW


VPI
STA = 20+20.00
EL = 717.17′
L = 100.00′
E = -0.10′
K = 120
(-)0.5400 %
(-)1.3700 %
PC STA 19+70.00
ELEV 717.44
PT STA 20+70.00
ELEV 716.50
PC STA 30+75.00
ELEV 702.72
BEGIN BRIDGE
STA 33+04.78
END BRIDGE
STA 34+44.78
PT STA 38+25.00
ELEV 705.08
EXIST GROUND @ PROP ℄ FM 455
(-)1.3700 %
(+)2.0000 %
H.W.₁₀₀ = 682.45
VPI
STA = 34+50.00
EL = 697.58′
L = 750.00′
E = 3.16′
K = 223
PROP PGL @ ℄ FM 455
PROP
717.81
717.24
717.51
716.08
716.44
714.71
715.27
713.34
713.66
711.97
711.86
710.60
710.37
709.23
708.98
707.86
707.30
706.49
705.62
705.12
703.52
703.75
699.45
702.39
695.46
701.36
689.70
700.77
677.02
700.64
673.11
700.95
676.56
701.72
676.59
702.93
676.90
704.59
693.04
706.58
709.30
708.58
732.63
710.58
735.14
712.58
731.78
714.58
726.20
716.58
716.71
718.58
725.07
20+00
25+00
30+00
35+00
40+00
45+00


EXISTING 4' X 4' RCB
TO BE REMOVED
BLDG
ALBERT & GEORGIA HEAD
OBLITERATE EXISTING ROADWAY
PI STA. 48+48.31
Δ = 12° 43' 38"
D = 0° 40' 27"
T = 947.97
L = 1888.14
R = 8500.00
PC STA. 39+00.34
PT STA. 57+88.48
290+00
EXISTING ROW
PT 286+30.80
EXISTING ROW
175.0'
24.0' TYP.
44.0' TYP.
285+00
50+00
BLDG
PC 281+28.40
PROPOSED ROW
PT 57+88.48
55+00
280+00
STA 55+00.27
50:1 TAPER
PROPOSED ROW
60+00
275+00
100.0'
RAOUL & ADOLIS HEAD
END PROJECT
CSJ 0816-02-053
PROP STA 60+00.00
EXIST STA 273+88.34
80.0'
270+00
EXISTING ROW
265+00
EXISTING ROW
N
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 10'
STA 266+68.37 FM 455
STA 10+00.00 INDIAN TRAIL
PT 264+32.10
PC 261+31.30
INDIAN TRAIL
PROPOSED 4' X 4' RCB
VPI
STA = 51+35.00
EL = 731.28'
L = 600.00'
E = -2.33'
K = 193
(+)2.0000 %
(-)1.1100 %
PC STA 48+35.00
ELEV 725.28
PT STA 54+35.00
ELEV 727.95
END PROJECT
CSJ: 0816-02-053
STA = 60+00.00
EL = 721.68
OSED 4' X 4' RCB
755
745
735
725
715
705
695
685
675
665
655
720.58
727.55
722.58
727.80
724.58
726.67
726.47
728.76
727.87
733.32
728.76
737.30
729.13
740.00
728.98
738.76
728.31
736.07
727.23
732.75
726.12
729.22
725.01
726.46
723.90
723.73
722.79
722.57
721.68
721.68
719.91
717.05
712.11
707.02
701.14
694.93
688.67
682.36
676.14
671.76
671.74
674.09
50+00
55+00
60+00


80.0′ ROW USUAL
℄ EXISTING FM 455
12.0′
12.0′
1.5%
1.5%
3:1
3:1
EXIST ROW
EXIST ROW
EXISTING 6" ACP
EXIST GROUND
EXIST GROUND

FM 455
EXISTING TYPICAL SECTION
NTS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30.0′ CLEAR ZONE
2′
10.0′*
SHLDR
12.0′ LANE
12.0′ LANE
10.0′*
SHLDR
2′
2.0%
2.0%
PROP ROW
PROP ROW
6:1 MAX
6:1 MAX
4:1 USUAL
3:1 MAX
EXIST GROUND
4:1 USUAL
3:1 MAX

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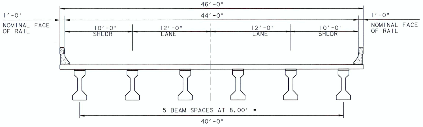
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44′-0"
1′-0"
NOMINAL FACE OF RAIL
1′-0"
NOMINAL FACE OF RAIL
10′-0"
SHLDR
12′-0"
LANE
12′-0"
LANE
10′-0"
SHLDR
5 BEAM SPACES AT 8.00′ =
40′-0"

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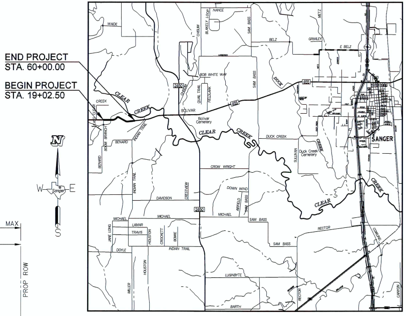
END PROJECT
STA. 60+00.00
BEGIN PROJECT
STA. 19+02.50
N
W
E
S
Sanger
SANGER
CLEAR CREEK
CLEAR CREEK
CLEAR CREEK
DUCK CREEK
Bolivar Cemetery
Duck Creek Cemetery
BOLIVAR
WADE
NANCE
BELZ
E BELZ
BOB WHITE WAY
SAM BASS
CROW WRIGHT
DOWN WIND
DAVIDSON
MICHAEL
LAMAR
TRAVIS
DOYLE
INDIAN TRAIL
RECTOR
LUGINBYTE
BARTH
MILLER
HOUSTON
2450
455

NOT TO SCALE

FM 455 TRAFFIC DATA	
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2002	1,250
2022	2,290

SOURCE: NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG)

Joseph C. Masterson 10/26/07
JOSEPH C. MASTERSON, P.E. 64170

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WILLIAM L. HALE, P.E. DISTRICT ENGINEER

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ROLL 1 OF 1

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