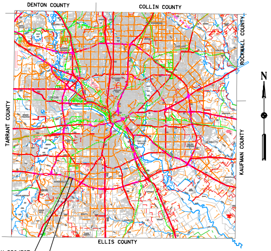
TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC FOR
I-20 FRONTAGE ROAD
FROM NORTH MAIN STREET
TO CAMP WISDOM ROAD
DUNCANVILLE, TEXAS
DALLAS COUNTY

CSJ: 2374-04-060
FEBRUARY 2014
ROLL 1 OF 2
I-20 EASTBOUND FRONTAGE ROAD


DENTON COUNTY
COLLIN COUNTY
ROCKWALL COUNTY
TARRANT COUNTY
KAUFMAN COUNTY
ELLIS COUNTY
N

BEGIN PROJECT
CSJ: 2374-04-060
℄ I-20 STA 404+67.86

END PROJECT
CSJ: 2374-04-060
℄ I-20 STA 438+00.88

SCHEMATIC SCALE (18" PLOT):
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 10'

SCHEMATIC SCALE (36" PLOT):
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SCHEMATIC PREPARED BY:
Kimley-Horn and Associates, Inc.
FIRM NO. F-928

JASON LASTOVICA
PROJECT MANAGER
102189 — P.E. NO.
2/19/2014 — DATE

NOT A BIDDING DOCUMENT

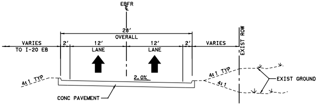
FUNCTIONAL CLASSIFICATION
I-20: URBAN INTERSTATE
FRONTAGE ROADS: URBAN COLLECTOR

PROJECT LENGTH
0.63 MILE

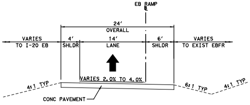
DESIGN SPEED
RAMPS: 40 MPH
FRONTAGE ROADS: 40 MPH

© 2014 By Texas Department of Transportation; all rights reserved

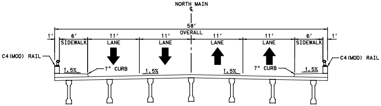
*** EXISTING TYPICAL SECTIONS ***


EBFR
℄
28'
OVERALL
VARIES
TO I-20 EB
2'
12'
LANE
12'
LANE
2'
VARIES
EXIST ROW
2.0%
4:1 TYP
4:1 TYP
4:1
EXIST GROUND
CONC PAVEMENT

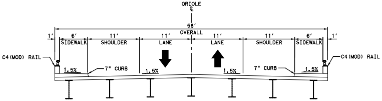
I-20 EB FRONTAGE ROAD
N.T.S.


EB RAMP
℄
24'
OVERALL
VARIES
TO I-20 EB
4'
SHLDR
14'
LANE
6'
SHLDR
VARIES
TO EXIST EBFR
VARIES 2.0% TO 4.0%
4:1 TYP
6:1 TYP
4:1 TYP
CONC PAVEMENT

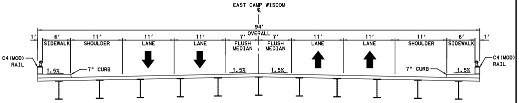
I-20 EB ENTRANCE RAMP
N.T.S.


NORTH MAIN
℄
58'
OVERALL
1'
6'
SIDEWALK
11'
LANE
11'
LANE
11'
LANE
11'
LANE
6'
SIDEWALK
1'
C4 (MOD) RAIL
C4 (MOD) RAIL
1.5%
7" CURB
1.5%
1.5%
7" CURB
1.5%

NORTH MAIN STREET UNDERPASS
N.T.S.

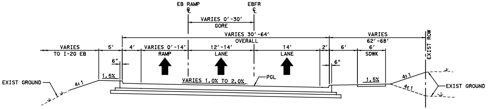

ORIOLE
℄
58'
OVERALL
1'
6'
SIDEWALK
11'
SHOULDER
11'
LANE
11'
LANE
11'
SHOULDER
6'
SIDEWALK
1'
C4 (MOD) RAIL
C4 (MOD) RAIL
1.5%
7" CURB
1.5%
1.5%
7" CURB
1.5%

ORIOLE BOULEVARD UNDERPASS
N.T.S.

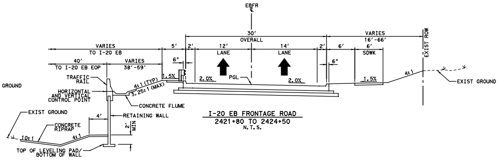

EAST CAMP WISDOM
℄
94'
OVERALL
1'
6'
SIDEWALK
11'
SHOULDER
11'
LANE
11'
LANE
7'
FLUSH MEDIAN
7'
FLUSH MEDIAN
11'
LANE
11'
LANE
11'
SHOULDER
6'
SIDEWALK
1'
C4 (MOD) RAIL
C4 (MOD) RAIL
1.5%
7" CURB
1.5%
1.5%
7" CURB
1.5%

EAST CAMP WISDOM ROAD UNDERPASS
N.T.S.

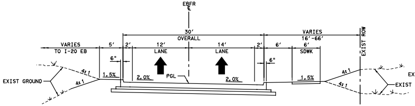
*** PROPOSED TYPICAL SECTIONS ***


EB RAMP ℄
EBFR ℄
VARIES 0'-30' GORE
VARIES 30'-64' OVERALL
VARIES 62'-68'
VARIES TO I-20 EB
5'
4'
VARIES 0'-14' RAMP
12'-14' LANE
14' LANE
2'
6'
6' SDWK
EXIST ROW
6"
6"
1.5%
VARIES 1.0% TO 2.0%
PGL
1.5%
4:1
4:1
4:1
EXIST GROUND
EXIST GROUND

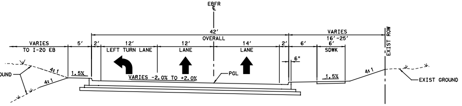
I-20 EB FRONTAGE ROAD
2404+80 TO 2408+07
N.T.S.


EBFR ℄
30' OVERALL
VARIES 16'-66'
VARIES TO I-20 EB
40' TO I-20 EB EOP
VARIES 38'-59'
5'
2'
12' LANE
14' LANE
2'
6'
6' SDWK
EXIST ROW
6"
6"
1.5%
2.0%
PGL
2.0%
1.5%
4:1 (TYP)
3.25:1 (MAX)
4:1
TRAFFIC RAIL
HORIZONTAL AND VERTICAL CONTROL POINT
CONCRETE FLUME
EXIST GROUND
RETAINING WALL
4'
2' MIN
CONCRETE RIPRAP
10:1
4:1
TOP OF LEVELING PAD/ BOTTOM OF WALL
EXIST GROUND

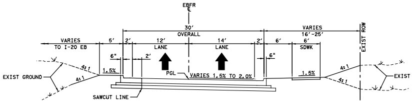
I-20 EB FRONTAGE ROAD
2421+80 TO 2424+50
N.T.S.


EBFR ℄
30' OVERALL
VARIES 16'-66'
VARIES TO I-20 EB
5'
2'
12' LANE
14' LANE
2'
6'
6' SDWK
EXIST ROW
6"
6"
1.5%
2.0%
PGL
2.0%
1.5%
4:1
4:1
4:1
4:1
EXIST GROUND
EXIST GROUND

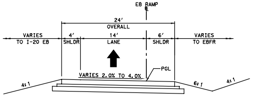
I-20 EB FRONTAGE ROAD
2408+07 TO 2411+30
2421+26 TO 2421+80
2424+50 TO 2428+70
N.T.S.


EBFR ℄
42' OVERALL
VARIES 16'-25'
VARIES TO I-20 EB
5'
2'
12' LEFT TURN LANE
12' LANE
14' LANE
2'
6'
6' SDWK
EXIST ROW
6"
1.5%
VARIES -2.0% TO +2.0%
PGL
1.5%
4:1
4:1
4:1
EXIST GROUND
EXIST GROUND

I-20 EB FRONTAGE ROAD
2428+70 TO 2432+29
N.T.S.

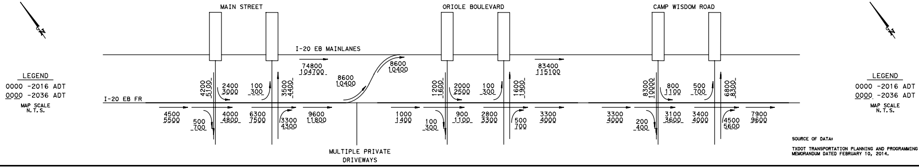

EBFR ℄
30' OVERALL
VARIES 16'-25'
VARIES TO I-20 EB
5'
2'
12' LANE
14' LANE
2'
6'
6' SDWK
EXIST ROW
6"
2'
6"
1.5%
PGL
VARIES 1.5% TO 2.0%
1.5%
4:1
4:1
4:1
4:1
EXIST GROUND
EXIST GROUND
SAWCUT LINE

I-20 EB FRONTAGE ROAD
2411+30 TO 2421+26
N.T.S.


EB RAMP ℄
24' OVERALL
VARIES TO I-20 EB
4' SHLDR
14' LANE
6' SHLDR
VARIES TO EBFR
VARIES 2.0% TO 4.0%
PGL
4:1
6:1
4:1

I-20 EB ENTRANCE RAMP
N.T.S.

*** DESIGN ADT ***

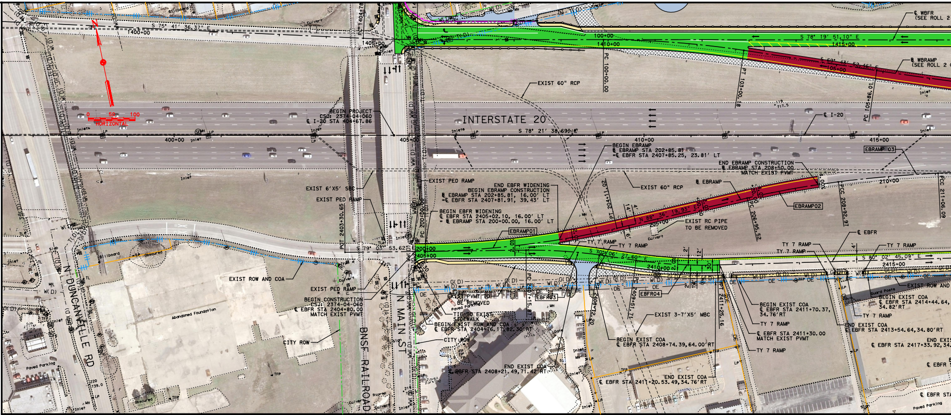

N
N
MAIN STREET
ORIOLE BOULEVARD
CAMP WISDOM ROAD
I-20 EB MAINLANES
I-20 EB FR
74800
104700
8600
10400
8600
10400
83400
115100
4200
5100
2400
3000
100
300
3500
4400
1200
1600
2000
2500
100
300
1600
1900
8300
10000
800
1100
500
700
6800
8300
4500
5500
500
700
4000
4800
6300
7500
3300
4300
9600
11800
1000
1400
100
300
900
1100
2800
3300
500
700
3300
4000
3300
4000
200
400
3100
3600
3400
4000
4500
5600
7900
9600
MULTIPLE PRIVATE DRIVEWAYS

LEGEND
0000 -2016 ADT
0000 -2036 ADT
MAP SCALE
N.T.S.

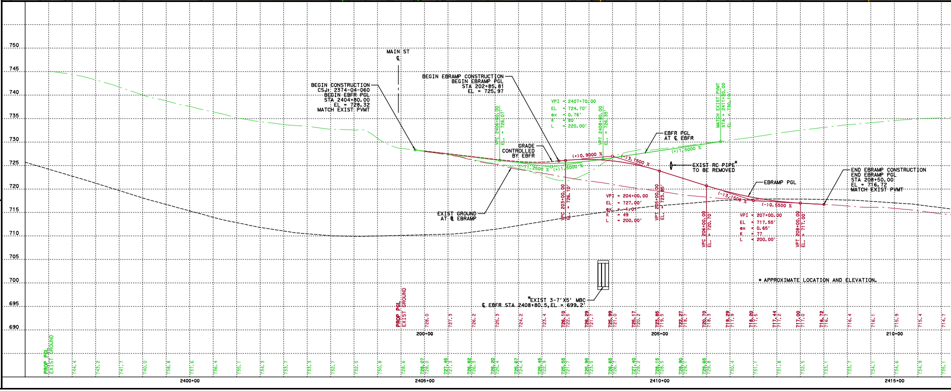
LEGEND
0000 -2016 ADT
0000 -2036 ADT
MAP SCALE
N.T.S.

SOURCE OF DATA:

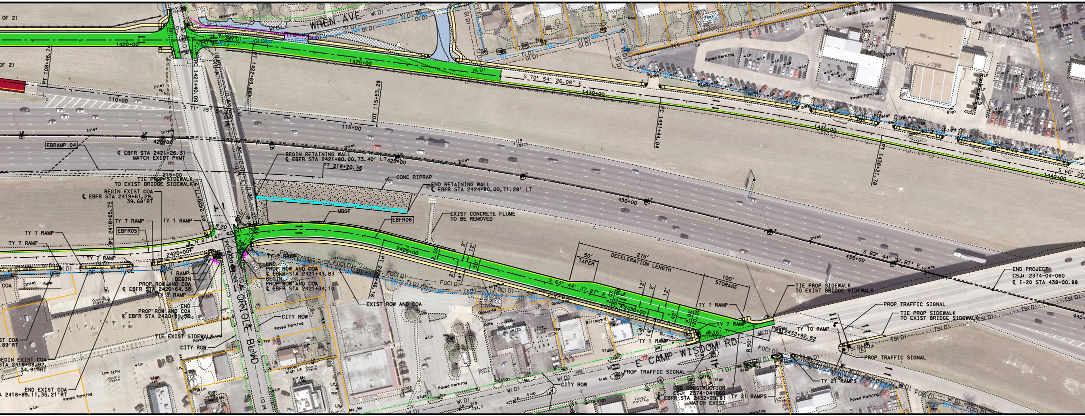
TXDOT TRANSPORTATION PLANNING AND PROGRAMMING DIVISION
MEMORANDUM DATED FEBRUARY 10, 2014.

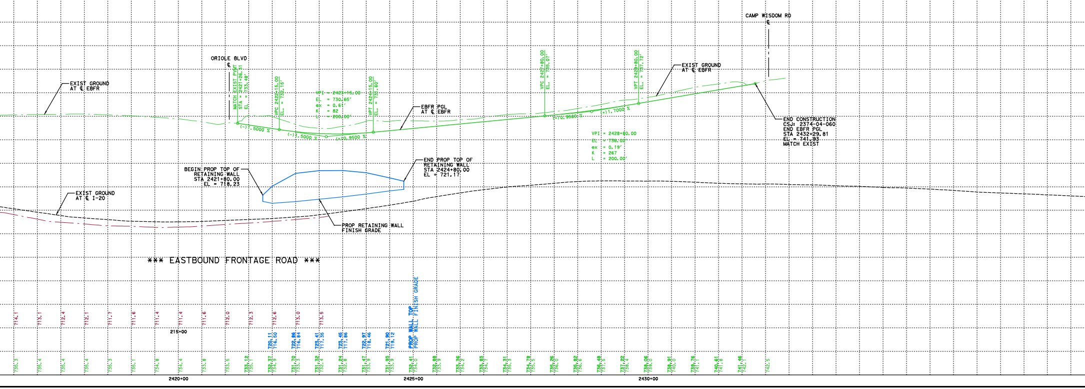


0 50 100
HORIZONTAL
INTERSTATE 20
S 78° 21' 38.69" E
S 75° 41' 36.37" E
400+00
405+00
410+00
415+00
1400+00
1405+00
1410+00
1415+00
100+00
S 78° 19' 51.10" E
℄ WBFR (SEE ROLL 2
℄ WBRAMP (SEE ROLL 2
105+00
PC 100+00.00
PT 103+00.18
PC 105+86.01
EXIST 60" RCP
℄ I-20
BEGIN PROJECT
CSJ: 2374-04-060
℄ I-20 STA 404+67.86
BEGIN EBRAMP
℄ EBRAMP STA 202+85.81
=℄ EBFR STA 2407+85.25, 23.81' LT
END EBRAMP CONSTRUCTION
℄ EBRAMP STA 208+50.00
MATCH EXIST PVMT
EBRAMP 03
210+00
PCC 208+92.97
PC 211+06.09
EXIST 6'X5' SBC
EXIST PED RAMP
END EBFR WIDENING
BEGIN EBRAMP CONSTRUCTION
℄ EBRAMP STA 202+85.81, 16.00' LT
=℄ EBFR STA 2407+81.91, 39.43' LT
BEGIN EBFR WIDENING
℄ EBFR STA 2405+02.10, 16.00' LT
=℄ EBRAMP STA 200+00.00, 16.00' LT
EXIST 60" RCP
℄ EBRAMP
EBRAMP02
N 89° 36' 19.93" E
PT 204+11.02
PC 206+95.52
205+00
EXIST RC PIPE
TO BE REMOVED
℄ EBFR
POT 2403+30.65
PC 200+00.00
S 79° 03' 53.62" E
200+00
2405+00
EBRAMP01
TY 7 RAMP
S 70° 06' 21.60" E
2410+00
S 80° 02' 45.09" E
2415+00
EBFR03
EBFR04
PT 2407+15.87
PC 2411+25.16
EXIST ROW AND COA
EXIST PED RAMP
BEGIN CONSTRUCTION
CSJ: 2374-04-060
℄ EBFR STA 2404+80.00
MATCH EXIST PVMT
EXIST PVMT TO BE REMOVED
TIE TO EXIST SIDEWALK
BEGIN EXIST ROW AND COA
℄ EBFR STA 2404+76.17, 82.30' RT
CITY ROW
END EXIST COA
℄ EBFR STA 2408+21.49, 71.42' RT
EXIST 3-7'X5' MBC
BEGIN EXIST COA
℄ EBFR STA 2408+74.39, 64.00' RT
END EXIST COA
℄ EBFR STA 2411+20.53, 49.34.76' RT
BEGIN EXIST COA
℄ EBFR STA 2411+70.37, 34.76' RT
TY 7 RAMP
℄ EBFR STA 2411+30.00
MATCH EXIST PVMT
EXIST ROW AND
BEGIN EXIST COA
℄ EBFR STA 2414+44.64, 34.82' RT
END EXIST COA
℄ EBFR STA 2413+54.64, 34.80' RT
N DUNCANVILLE RD
N MAIN ST
BNSF RAILROAD
Abandoned Foundation
Paved Parking
Billboard
Inlet

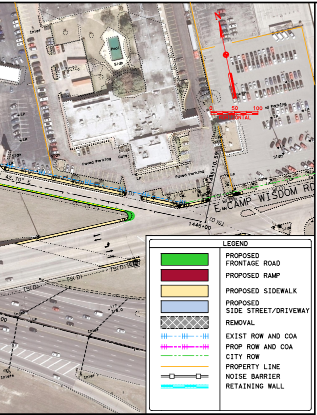


750
745
740
735
730
725
720
715
710
705
700
695
690
MAIN ST
℄
BEGIN CONSTRUCTION
CSJ: 2374-04-060
BEGIN EBFR PGL
STA 2404+80.00
EL = 728.32
MATCH EXIST PVMT
BEGIN EBRAMP CONSTRUCTION
BEGIN EBRAMP PGL
STA 202+85.81
EL = 725.97
GRADE CONTROLLED BY: EBFR
VPC 2406+00.00
EL = 726.07'
VPI = 2407+70.00
EL = 724.70'
ex = 0.76'
K = 80
L = 220.00'
VPT 2408+80.00
EL = 726.35'
MATCH EXIST PVMT
STA = 2411+50.00
EL = 730.10'
EBFR PGL
AT ℄ EBFR
(+)0.9000 %
(+)1.6000 %
(+)1.5000 %
(-)1.2500 %
(-)3.1500 %
(-)0.5500 %
EXIST RC PIPE*
TO BE REMOVED
EBRAMP PGL
END EBRAMP CONSTRUCTION
END EBRAMP PGL
STA 208+50.00
EL = 716.72
MATCH EXIST PVMT
EXIST GROUND
AT ℄ EBRAMP
VPC 203+00.00
EL = 726.10'
VPI = 204+00.00
EL = 727.00'
ex = -1.01'
K = 49
L = 200.00'
VPT 205+00.00
EL = 723.85'
VPC 206+00.00
EL = 720.70'
VPI = 207+00.00
EL = 717.55'
ex = 0.65'
K = 77
L = 200.00'
VPT 208+00.00
EL = 717.00'
* APPROXIMATE LOCATION AND ELEVATION.
*EXIST 3-7'X5' MBC
℄ EBFR STA 2408+80.5, EL = 699.2'
PROP PGL
EXIST GROUND
200+00
205+00
210+00
2400+00
2405+00
2410+00
2415+00

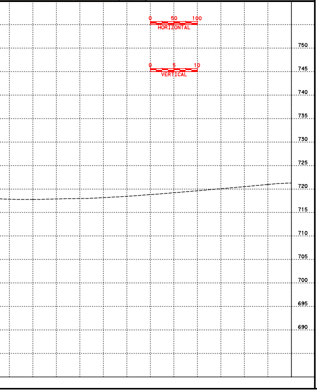

WREN AVE
1420+00
1425+00
1430+00
1435+00
1440+00
S 70° 54' 26.08" E
PT 108+46.74
PT 115+53.28
PC 1421+40.09
PT 1422+69.66
PC 1431+44.04
PT 1436+21.78
110+00
115+00
EBRAMP 04
℄ EBFR STA 2421+26.31 MATCH EXIST PVMT
BEGIN RETAINING WALL ℄ EBFR STA 2421+80.00, 73.40' LT
PT 218+20.36
CONC RIPRAP
END RETAINING WALL ℄ EBFR STA 2424+80.00, 71.28' LT
MBGF
EBFR06
EXIST CONCRETE FLUME TO BE REMOVED
215+00
TIE PROP SIDEWALK TO EXIST BRIDGE SIDEWALK
BEGIN EXIST COA ℄ EBFR STA 2419+61.29, 39.68' RT
TY 7 RAMP
TY 1 RAMP
EBFR05
PC 2418+65.75
2420+00
2425+00
2430+00
430+00
435+00
440+00
S 63° 44' 37.87" E
50' TAPER
275' DECELERATION LENGTH
100' STORAGE
END PROJECT CSJ: 2374-04-060 ℄ I-20 STA 438+00.88
TIE PROP SIDEWALK TO EXIST BRIDGE SIDEWALK
PROP TRAFFIC SIGNAL
TIE PROP SIDEWALK TO EXIST BRIDGE SIDEWALK
TY TO RAMP
PROP TRAFFIC SIGNAL
END PROP ROW AND COA ℄ EBFR STA 2421+43.83
BEGIN PROP ROW AND COA ℄ EBFR STA 2421+34.10
PROP ROW AND COA ℄ EBFR STA 2420+64.38
PROP ROW AND COA ℄ EBFR STA 2420+81.96
EXIST ROW AND COA
CITY ROW
TIE EXIST SIDEWALK
ORIOLE BLVD
E CAMP WISDOM RD
BEGIN EXIST COA STA 2418+08.92, 34.91' RT
END EXIST COA STA 2418+89.11, 35.21' RT
PROP TRAFFIC SIGNAL
END CONSTRUCTION CSJ: 2374-04-060 EBFR STA 2432+29.81 MATCH EXIST
TY 21 RAMPS
PT 2432+92.52
CITY ROW
Paved Parking


CAMP WISDOM RD ℄
ORIOLE BLVD ℄
EXIST GROUND AT ℄ EBFR
MATCH EXIST PVMT STA = 2421+26.31 EL = 733.48'
VPC 2422+15.00 EL. = 732.15'
VPI = 2423+15.00
EL = 730.65'
ex = 0.61'
K = 82
L = 200.00'
VPT 2424+15.00 EL. = 731.60'
(-)1.5000 %
(-)1.5000 %
(+)0.9500 %
EBFR PGL AT ℄ EBFR
VPC 2427+80.00 EL. = 735.07'
VPT 2429+80.00 EL. = 737.72'
(+)0.9500 %
(+)1.7000 %
VPI = 2428+80.00
EL = 736.02'
ex = 0.19'
K = 267
L = 200.00'
EXIST GROUND AT ℄ EBFR
END CONSTRUCTION CSJ: 2374-04-060 END EBFR PGL STA 2432+29.81 EL = 741.93 MATCH EXIST
BEGIN PROP TOP OF RETAINING WALL STA 2421+80.00 EL = 718.23
END PROP TOP OF RETAINING WALL STA 2424+80.00 EL = 721.17
EXIST GROUND AT ℄ I-20
PROP RETAINING WALL FINISH GRADE
PROP WALL TOP
PROP WALL FINISH GRADE
215+00
2420+00
2425+00
2430+00

*** EASTBOUND FRONTAGE ROAD ***


N
0
50
100
HORIZONTAL
Inlet
Pool
Slab
Sign
Gate
Paved Parking
LP
W(D)
42.70" E
1445+10.59
1445+00
E CAMP WISDOM RD
TS(D)
Inlet

LEGEND	
🟩	PROPOSED FRONTAGE ROAD
🟥	PROPOSED RAMP
🟨	PROPOSED SIDEWALK
🟦	PROPOSED SIDE STREET/DRIVEWAY
▨	REMOVAL
─┼┼─	EXIST ROW AND COA
─┼┼─	PROP ROW AND COA
─ · ─	CITY ROW
──	PROPERTY LINE
─□─□─	NOISE BARRIER
═══	RETAINING WALL



*** HORIZONTAL GEOMETRY ***

℄ I-20 EASTBOUND FRONTAGE ROAD (℄ EBFR)

```
==============================================================================
Begin Chain          N     6,929,395.28 E     2,458,576.20 Sta   2397+00.000

Course from Begin Chain to PC [EBFR01] S 89° 52' 03.462" E Dist 88.75

Curve [EBFR01]
P.I.   Station             2399+61.360  N        6,929,394.67  E        2,458,837.56
Delta          =      26° 57' 45.706" (RT)
Degree         =       7° 57' 27.890"
Tangent        =               172.61
Length         =               338.82
Radius         =               720.00
External       =                20.40
Long Chord     =               335.71
Mid. Ord.      =                19.84
P.C.   Station             2397+88.751  N        6,929,395.07  E        2,458,664.95
P.T.   Station             2401+27.574  N        6,929,316.06  E        2,458,991.22
C.C.                                    N        6,928,675.07  E        2,458,663.29
Back           = S  89° 52' 03.462" E
Ahead          = S  62° 54' 17.756" E
Chord Bear     = S  76° 23' 10.609" E

Curve [EBFR02]
P.I.   Station             2402+29.789  N        6,929,269.50  E        2,459,082.22
Delta          =      16° 09' 35.867" (LT)
Degree         =       7° 57' 27.890"
Tangent        =               102.21
Length         =               203.07
Radius         =               720.00
External       =                 7.22
Long Chord     =               202.40
Mid. Ord.      =                 7.15
P.C.   Station             2401+27.574  N        6,929,316.06  E        2,458,991.22
P.T.   Station             2403+30.646  N        6,929,250.11  E        2,459,182.58
C.C.                                    N        6,929,957.04  E        2,459,319.16
Back           = S  62° 54' 17.756" E
Ahead          = S  79° 03' 53.623" E
Chord Bear     = S  70° 59' 05.690" E

Course from PT [EBFR02] to PC [EBFR03] S 79° 03' 53.623" E Dist 385.22

Curve [EBFR03]
P.I.   Station             2407+94.197  N        6,929,162.18  E        2,459,637.71
Delta          =       8° 57' 26.020" (RT)
Degree         =       5° 43' 46.481"
Tangent        =                78.33
Length         =               156.33
Radius         =             1,000.00
External       =                 3.06
Long Chord     =               156.17
Mid. Ord.      =                 3.05
P.C.   Station             2407+15.871  N        6,929,177.03  E        2,459,560.81
P.T.   Station             2408+72.204  N        6,929,135.53  E        2,459,711.37
C.C.                                    N        6,928,195.19  E        2,459,371.11
Back           = S  79° 03' 53.623" E
Ahead          = S  70° 06' 27.604" E
Chord Bear     = S  74° 35' 10.614" E

Course from PT [EBFR03] to PC [EBFR04] S 70° 06' 27.604" E Dist 79.50

Curve [EBFR04]
P.I.   Station             2410+38.652  N        6,929,078.89  E        2,459,867.88
Delta          =       9° 56' 17.485" (LT)
Degree         =       5° 43' 46.481"
Tangent        =                86.95
Length         =               173.45
Radius         =             1,000.00
External       =                 3.77
Long Chord     =               173.24
Mid. Ord.      =                 3.76
P.C.   Station             2409+51.707  N        6,929,108.47  E        2,459,786.13
P.T.   Station             2411+25.161  N        6,929,063.86  E        2,459,953.62
C.C.                                    N        6,930,048.81  E        2,460,126.38
Back           = S  70° 06' 27.604" E
Ahead          = S  80° 02' 45.088" E
Chord Bear     = S  75° 04' 36.346" E

Course from PT [EBFR04] to PC [EBFR05] S 80° 02' 45.088" E Dist 740.59

Curve [EBFR05]
P.I.   Station             2419+72.260  N        6,928,917.43  E        2,460,787.87
Delta          =      12° 09' 34.098" (LT)
Degree         =       5° 43' 46.481"
Tangent        =               106.51
Length         =               212.22
Radius         =             1,000.00
External       =                 5.66
Long Chord     =               211.82
Mid. Ord.      =                 5.62
P.C.   Station             2418+65.748  N        6,928,935.84  E        2,460,682.96
P.T.   Station             2420+77.971  N        6,928,921.53  E        2,460,894.30
C.C.                                    N        6,929,920.79  E        2,460,855.82
Back           = S  80° 02' 45.088" E
Ahead          = N  87° 47' 40.813" E
Chord Bear     = S  86° 07' 32.138" E

Course from PT [EBFR05] to PC [EBFR06] N 87° 47' 40.813" E Dist 20.47

Curve [EBFR06]
P.I.   Station             2422+75.968  N        6,928,929.15  E        2,461,092.15
Delta          =      28° 27' 41.313" (RT)
Degree         =       8° 11' 06.401"
Tangent        =               177.53
Length         =               347.72
Radius         =               700.00
External       =                22.16
Long Chord     =               344.16
Mid. Ord.      =                21.48
P.C.   Station             2420+98.441  N        6,928,922.32  E        2,460,914.75
P.T.   Station             2424+46.164  N        6,928,850.62  E        2,461,251.36
C.C.                                    N        6,928,222.84  E        2,460,941.69
Back           = N  87° 47' 40.813" E
Ahead          = S  63° 44' 37.874" E
Chord Bear     = S  77° 58' 28.530" E

Course from PT [EBFR06] to End Chain S 63° 44' 37.874" E Dist 846.36

End Chain            N     6,928,476.20 E     2,462,010.40 Sta   2432+92.524
==============================================================================
```

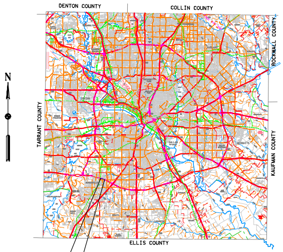
℄ I-20 EASTBOUND ENTRANCE RAMP (℄ EBRAMP)

```
==============================================================================
Begin Chain          N     6,929,217.59 E     2,459,350.93 Sta   200+00.000

Curve [EBRAMP01]
P.I.   Station              202+06.305  N        6,929,178.45  E        2,459,553.48
Delta          =      12° 19' 46.447" (LT)
Degree         =       2° 59' 59.205"
Tangent        =               206.30
Length         =               411.02
Radius         =             1,910.00
External       =                11.11
Long Chord     =               410.22
Mid. Ord.      =                11.05
P.C.   Station              200+00.000  N        6,929,217.59  E        2,459,350.93
P.T.   Station              204+11.016  N        6,929,183.47  E        2,459,759.73
C.C.                                    N        6,931,092.91  E        2,459,713.25
Back           = S  79° 03' 53.623" E
Ahead          = N  88° 36' 19.930" E
Chord Bear     = S  85° 13' 46.847" E

Course from PT [EBRAMP01] to PC [EBRAMP02] N 88° 36' 19.930" E Dist 284.51

Curve [EBRAMP02]
P.I.   Station              207+94.334  N        6,929,192.80  E        2,460,142.93
Delta          =       5° 55' 22.785" (RT)
Degree         =       2° 59' 59.205"
Tangent        =                98.81
Length         =               197.45
Radius         =             1,910.00
External       =                 2.55
Long Chord     =               197.36
Mid. Ord.      =                 2.55
P.C.   Station              206+95.522  N        6,929,190.39  E        2,460,044.15
P.T.   Station              208+92.970  N        6,929,185.00  E        2,460,241.44
C.C.                                    N        6,927,280.96  E        2,460,090.63
Back           = N  88° 36' 19.930" E
Ahead          = S  85° 28' 17.285" E
Chord Bear     = S  88° 25' 58.678" E

Curve [EBRAMP03]
P.I.   Station              209+99.581  N        6,929,176.58  E        2,460,347.71
Delta          =       4° 15' 43.825" (RT)
Degree         =       1° 59' 59.470"
Tangent        =               106.61
Length         =               213.12
Radius         =             2,865.00
External       =                 1.98
Long Chord     =               213.08
Mid. Ord.      =                 1.98
P.C.   Station              208+92.970  N        6,929,185.00  E        2,460,241.44
P.T.   Station              211+06.094  N        6,929,160.29  E        2,460,453.07
C.C.                                    N        6,926,328.94  E        2,460,015.23
Back           = S  85° 28' 17.285" E
Ahead          = S  81° 12' 33.460" E
Chord Bear     = S  83° 20' 25.373" E

Curve [EBRAMP04]
P.I.   Station              214+63.691  N        6,929,105.64  E        2,460,806.47
Delta          =       7° 08' 31.739" (RT)
Degree         =       0° 59' 59.735"
Tangent        =               357.60
Length         =               714.27
Radius         =             5,730.00
External       =                11.15
Long Chord     =               713.81
Mid. Ord.      =                11.13
P.C.   Station              211+06.094  N        6,929,160.29  E        2,460,453.07
P.T.   Station              218+20.362  N        6,929,007.47  E        2,461,150.33
C.C.                                    N        6,923,497.60  E        2,459,577.38
Back           = S  81° 12' 33.457" E
Ahead          = S  74° 04' 01.718" E
Chord Bear     = S  77° 38' 17.587" E

End Chain            N     6,929,007.47 E     2,461,150.33 Sta   218+20.362
==============================================================================
```

TEXAS DEPARTMENT OF TRANSPORTATION
DALLAS DISTRICT
WILLIAM L. HALE, P.E., DISTRICT ENGINEER

DESIGN SCHEMATIC FOR I-20 FRONTAGE ROAD FROM NORTH MAIN STREET TO CAMP WISDOM ROAD DUNCANVILLE, TEXAS DALLAS COUNTY

CSJ: 2374-04-060
FEBRUARY 2014
ROLL 1 OF 2
I-20 EASTBOUND FRONTAGE ROAD


DENTON COUNTY
COLLIN COUNTY
ROCKWALL COUNTY
KAUFMAN COUNTY
ELLIS COUNTY
TARRANT COUNTY
N

BEGIN PROJECT
CSJ: 2374-04-060
℄ I-20 STA 404+67.86

END PROJECT
CSJ: 2374-04-060
℄ I-20 STA 438+00.88

SCHEMATIC SCALE (18" PLOT):
HORIZONTAL: 1" = 100'
VERTICAL: 1" = 10'

SCHEMATIC SCALE (36" PLOT):
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

SCHEMATIC PREPARED BY:
Kimley-Horn and Associates, Inc.
FIRM NO. F-928

JASON LASTOVICA
PROJECT MANAGER
102189
P.E. NO.
2/19/2014
DATE

NOT A BIDDING DOCUMENT

FUNCTIONAL CLASSIFICATION
I-20: URBAN INTERSTATE
FRONTAGE ROADS: URBAN COLLECTOR

PROJECT LENGTH
0.63 MILE

DESIGN SPEED
RAMPS: 40 MPH
FRONTAGE ROADS: 40 MPH

© 2014 By Texas Department of Transportation; all rights reserved