HOUSTON DISTRICT
PROJECT DEVELOPMENT

FM 2100

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: FM 2100
COUNTY: HARRIS
LIMITS FROM: FM 1960
LIMITS TO: WOLF ROAD

SCHEMATIC LAYOUT
FM 2100

COUNTY: HARRIS
LIMITS FROM: FM 1960
LIMITS TO: WOLF ROAD
CSJ: 1062-04-022
DATE: ##/##/20##
APPROVED: / /

NOT A BIDDING DOCUMENT
________________ ,P.E.
TBPE NO. ________

LEGEND

DESCRIPTION	SYMBOLOGY	WEIGHT	COLOR CODE
PROPOSED MAIN LANES	—	2	BLACK -0
PROPOSED TOLL LANES	—	2	PURPLE -60
PROPOSED FRONTAGE ROADS	—	5	BLUE -1
PROPOSED RAMPS	—	2	BLUE -1
PROPOSED DIRECT CONNECTOR	—	2	ORANGE -6
PROPOSED EMBANKMENT	—	2	RED -3
PROPOSED RETAINING WALL	—	6	RED -3
PROPOSED BRIDGE BENTS	—	2	RED -3
PROPOSED NOISE WALL	—	5	MAGENTA -37
PROPOSED SIDEWALKS	—	2	MAGENTA -200
PROPOSED STRIPING	▰▰▰	1	ORANGE -6
PROPOSED LANE INDICATOR	→	1	BLACK -0
PROPOSED RIGHT-OF-WAY	▬ ╷	5	BLACK -0
CONTROL OF ACCESS	—	2	RED -3
PLANIMETRIC	⌂	1	GREEN -2
EXISTING RIGHT-OF-WAY	— -	1	BLACK -0
EXISTING ROADWAY	—	2	GREEN -2
EXISTING ROADWAY TO BE REMOVED	▰▰▰	1	BLACK -0
EXISTING LANE INDICATOR	⇨	1	BLACK -0
TRAFFIC COUNT YEAR ( ) DHV	▬	1	BLACK -0

COLORFILL LEGEND

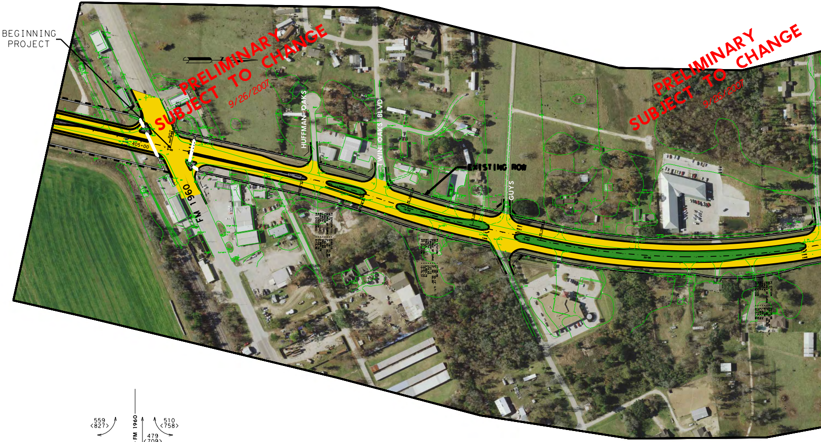
MAIN LANES	🟨
MEDIAN	▨
MEDIAN (GRASS)	🟩
SIDEWALK	☐

SCALE

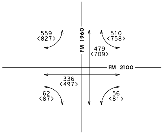
0 100 200 300 400

DESIGN CRITERIA

FUNCTIONAL CLASSIFICATION: URBAN
MAIN LANE DESIGN CRITERIA: LOW SPEED URBAN
MAIN LANE DESIGN SPEED: 45 MPH(SOUTH OF WOLF ROAD)
MAIN LANE DESIGN SPEED: 50 MPH(NORTH OF WOLF ROAD)


BEGINNING
PROJECT
FM 1960
405+00
HUFFMAN-OAKS
WINTOAKS BLVD
EXISTING ROW
GUYS

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007


FM 1960
FM 2100
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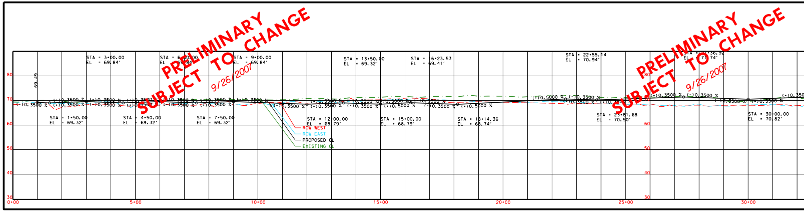
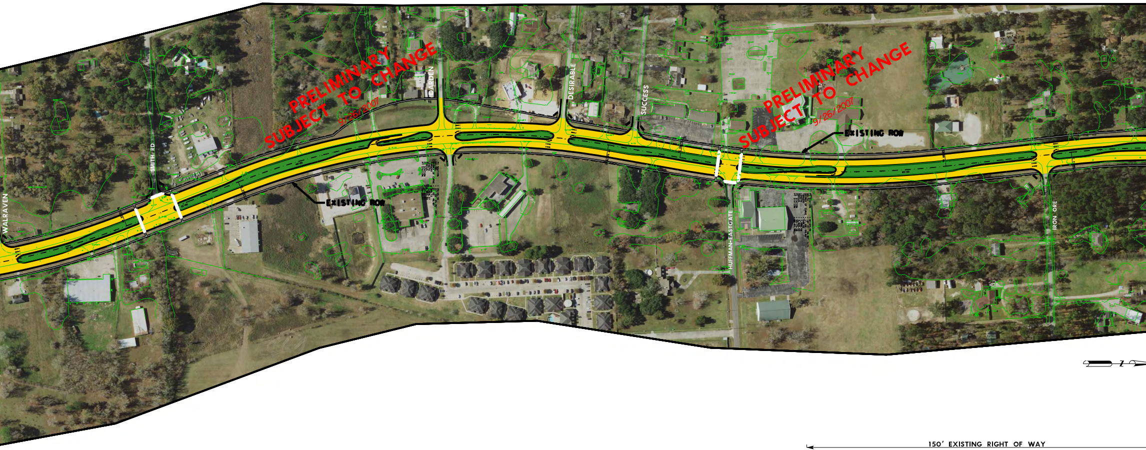
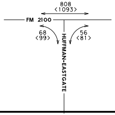



PRELIMINARY
SUBJECT TO CHANGE
9/26/2007
WALRAVEN
SMITH RD
DARDEN
DESIRABLE
SUCCESS
EXISTING ROW
HUFFMAN-EASTGATE
IRON ORE
PRELIMINARY
SUBJECT TO CHANGE
9/26/2007
EXISTING ROW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FM 2100
68
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56
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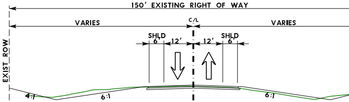
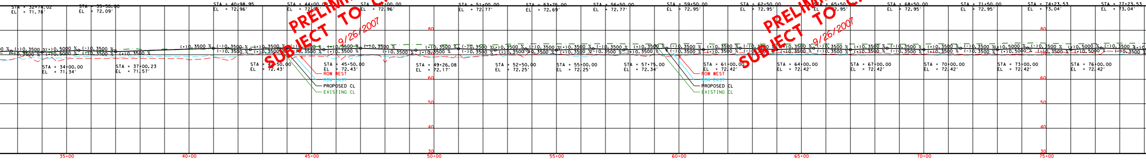
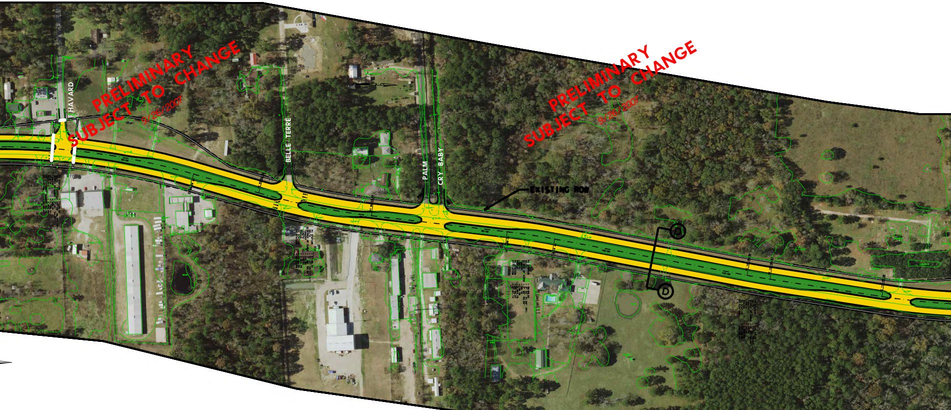
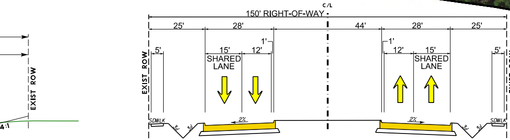
HUFFMAN-EASTGATE


150' EXISTING RIGHT OF WAY
VARIES
C/L
VARIES
EXIST ROW
SHLD
6'
12'
12'
SHLD
6'
4:1
6:1
6:1

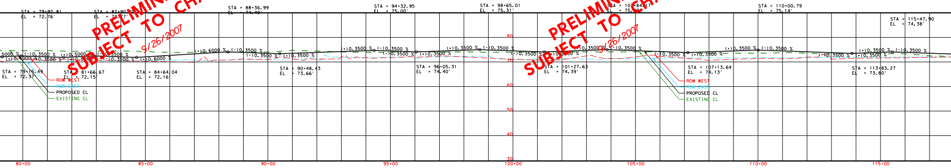
FM 2100 EXISTING TYPICAL SECTION



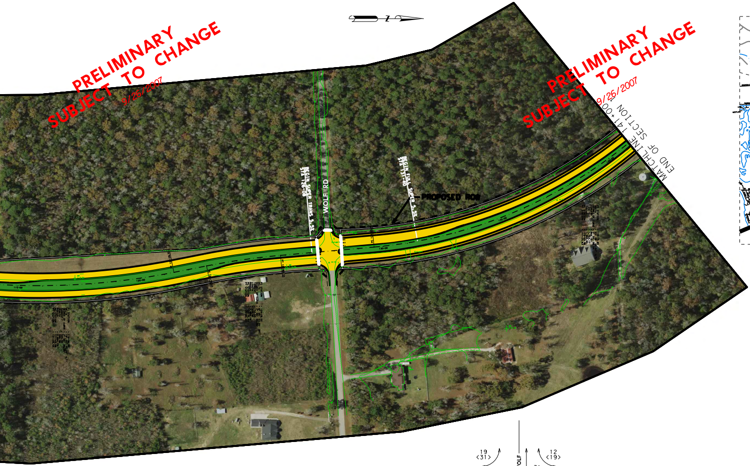

HAVARD
BELLE TERRE
PALM
CRY BABY
EXISTING ROW
D
D
PRELIMINARY SUBJECT TO CHANGE 9/26/2007
PRELIMINARY SUBJECT TO CHANGE 9/26/2007

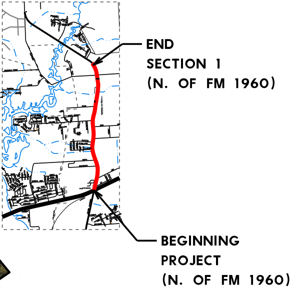

C/L
150' RIGHT-OF-WAY
25'
28'
44'
28'
25'
15'
SHARED LANE
12'
1'
1'
12'
15'
SHARED LANE
5'
5'
EXIST ROW
EXIST ROW
EXIST ROW
4:1
SDWLK
3:1
3:1
2%
2%
3:1
3:1
SDWLK

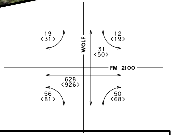
PROPOSED TYPICAL SECTION D-D



PRELIMINARY
SUBJECT TO CHANGE
9/26/2007


WOLF RD
PROPOSED ROW
MATCHLINE 141+00
END OF SECTION


END
SECTION 1
(N. OF FM 1960)
BEGINNING
PROJECT
(N. OF FM 1960)


WOLF
FM 2100
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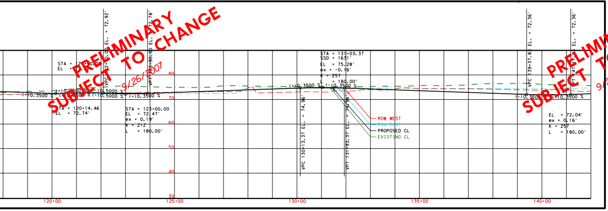


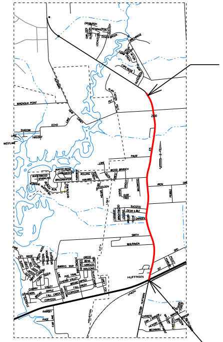
HOUSTON DISTRICT
PROJECT DEVELOPMENT

FM 2100

PRELIMINARY
SUBJECT TO CHANGE

ROADWAY: FM 2100
COUNTY: HARRIS
LIMITS FROM: FM 1960
LIMITS TO: WOLF ROAD

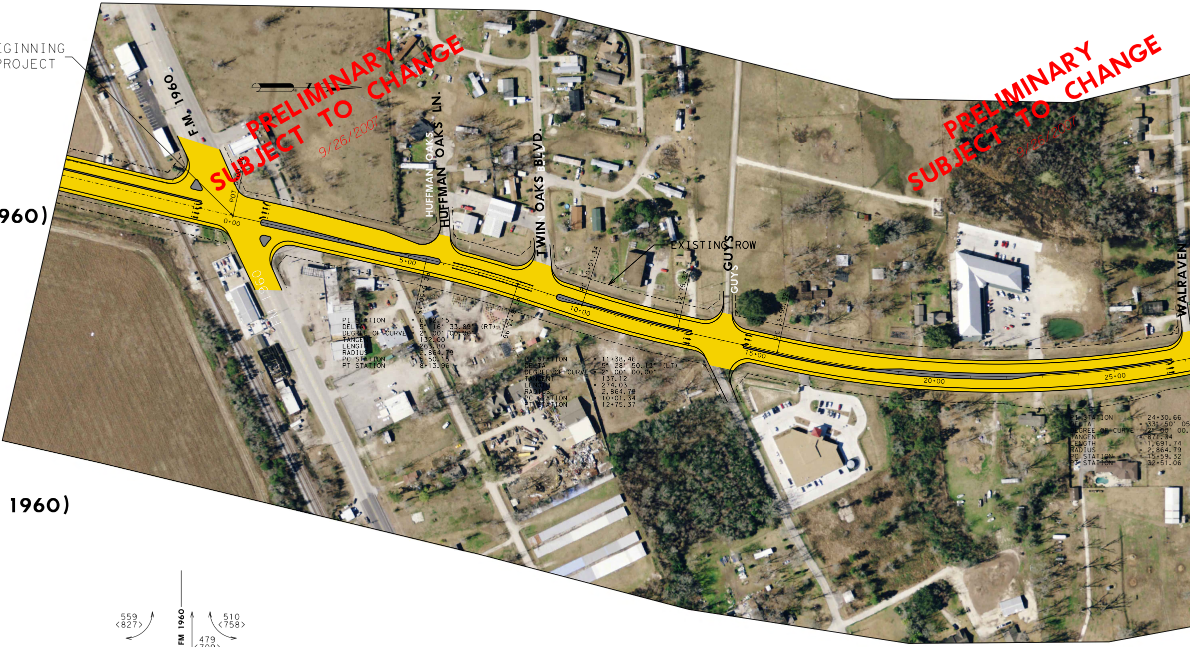
DESIGN SPEED = 45 MPH
(NORTH OF FM 1960)
DESIGN SPEED = 60 MPH
(NORTH OF WOLF ROAD)



END
SECTION 1
(N. OF FM 1960)

BEGINNING
PROJECT
(N. OF FM 1960)

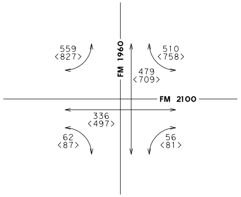
RURAL ARTERIAL



BEGINNING
PROJECT
F.M. 1960
HUFFMAN OAKS LN.
TWIN OAKS BLVD.
GUYS
WALRAVEN
EXISTING ROW
POT
0+00
5+00
10+00
15+00
20+00
25+00
PC 5+50.15
PT 8+13.96
PC 10+01.34
PT 12+75.37
PC 15+59.32
PI STATION = 6+82.15
DELTA = 5° 16′ 33.89″ (RT)
DEGREE OF CURVE = 2° 00′ 00.00″
TANGENT = 132.00
LENGTH = 263.80
RADIUS = 2,864.79
PC STATION = 5+50.15
PT STATION = 8+13.96
PI STATION = 11+38.46
DELTA = 5° 28′ 50.13″ (LT)
DEGREE OF CURVE = 2° 00′ 00.00″
TANGENT = 137.12
LENGTH = 274.03
RADIUS = 2,864.79
PC STATION = 10+01.34
PT STATION = 12+75.37
PI STATION = 24+30.66
DELTA = 33° 50′ 05
DEGREE OF CURVE = 2° 00′ 00.
TANGENT = 871.34
LENGTH = 1,691.74
RADIUS = 2,864.79
PC STATION = 15+59.32
PT STATION = 32+51.06

PRELIMINARY SUBJECT TO CHANGE 9/26/2007

SCHEMATIC LAYOUT
HARRIS COUNTY
FM 2100
Texas Department of Transportation
FROM: FM 1960
TO: WOLF RD
HOUSTON DISTRICT
DATE:
APPROVED:



FM 1960
FM 2100
559 <827>
510 <758>
479 <709>
336 <497>
62 <87>
56 <81>

NOT A BIDDING DOCUMENT

P. E.

TEXAS REGISTRATION NUMBER

DATE

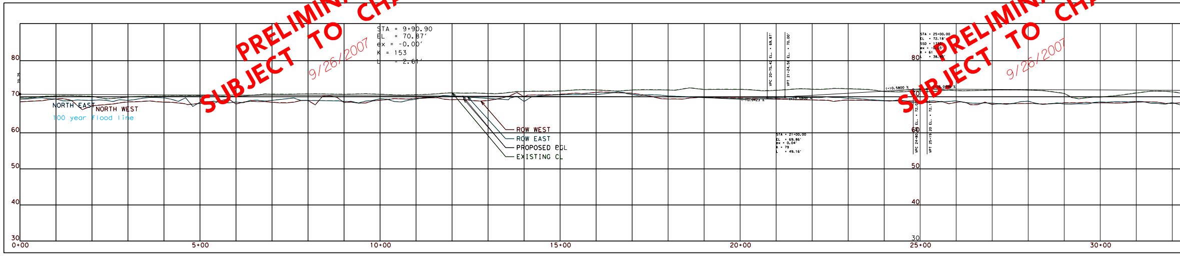
LEGEND

SYMBOLOGY	LINE WT	COLOR CODE	
MAIN LANES	5	BLACK	0
FRONTAGE ROADS AND RAMPS	1	BLUE	1
TURNAROUNDS	1	BLUE	1
EXISTING RDWY TO BE REMOVED	0	BLACK	0
EXISTING RDWY TO REMAIN	2	GREEN	2
EMBANKMENT	3	RED	3
CONTROL OF ACCESS	3	RED	3
PROP ROW	5	BLACK	0
EXISTING ROW	0	BLACK	0
ACCESS ROAD	1	BLUE	1
PLANIMETRIC	2	GREEN	2
TRAFFIC COUNT YEAR ( ) DHV	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	0	BLACK	0
DIRECT CONNECTOR	4	ORANGE	6
DEPRESSED	3	RED	3
FUTURE	1	BLUE	1
RETAINING WALL	6	RED	3
STRIPING	0	ORANGE	6
HIGH OCCUPANCY VEHICLE (HOV)	5	TURQUOISE	65
DIAMOND LANE	5	BROWN	137
MANAGED LANES	9	LT PURPLE	42
TEMPORARY CONNECTIONS	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	10	PURPLE	203

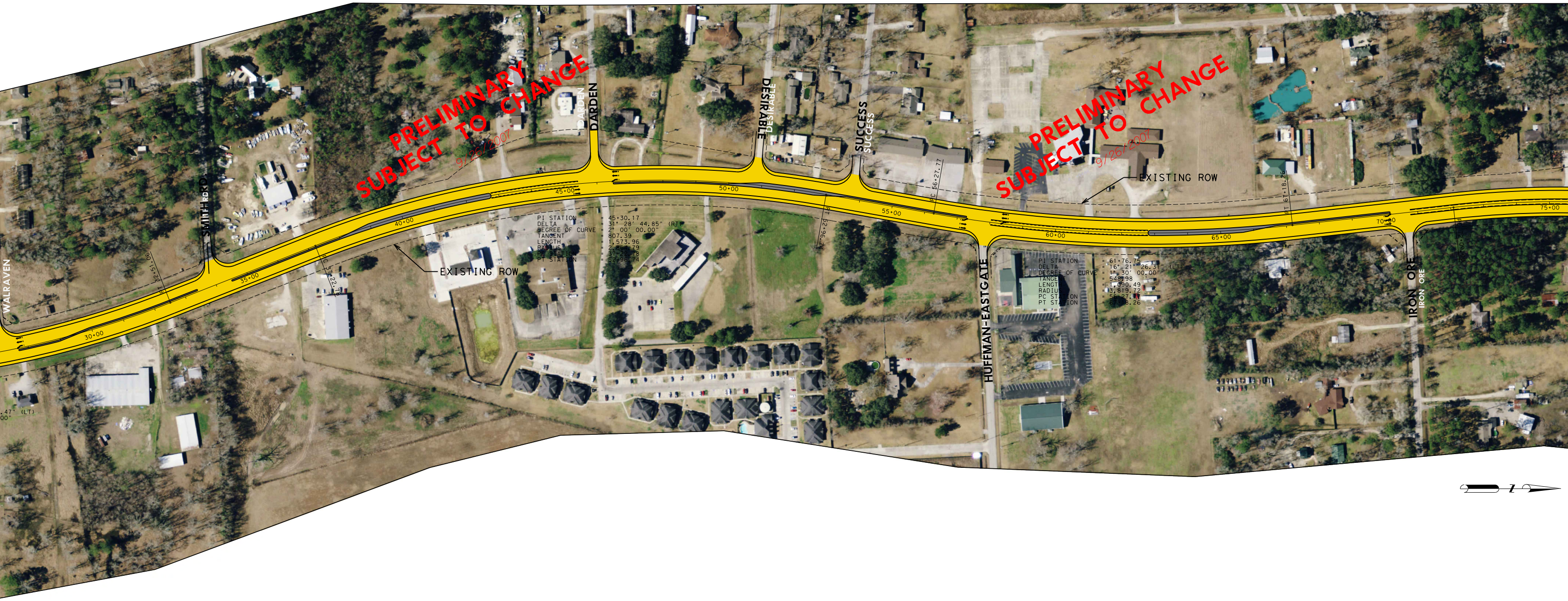
SCALE: 0 100 200 300 400

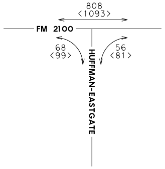
🟨 PROPOSED ROADWAY
⬛ PROPOSED MEDIAN

100 YEAR 2004
<200> YEAR 2024



PRELIMINARY SUBJECT TO CHANGE 9/26/2007


PRELIMINARY
SUBJECT TO CHANGE
9/26/2007
WALRAVEN
SMITH RD
DARDEN
DESIRABLE
SUCCESS
HUFFMAN-EASTGATE
IRON ORE
EXISTING ROW
30+00
35+00
40+00
45+00
50+00
55+00
60+00
65+00
70+00
75+00
PI STATION = 45+30.17
DELTA = 31° 28′ 44.85″ (RT)
DEGREE OF CURVE = 2° 00′ 00.00″
TANGENT = 807.39
LENGTH = 1,573.96
RADIUS = 2,864.79
PC STATION = 37+22.78
PT STATION = 52+96.74
PI STATION = 61+76.75
DELTA = 16° 21′ 26.31″ (LT)
DEGREE OF CURVE = 1° 30′ 00.00″
TANGENT = 548.98
LENGTH = 1,090.49
RADIUS = 3,819.72
PC STATION = 56+27.77
PT STATION = 67+18.26
PC 56+27.77
PT 67+18.26
PT 52+96.74
PC 37+22.78


808
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FM 2100
68
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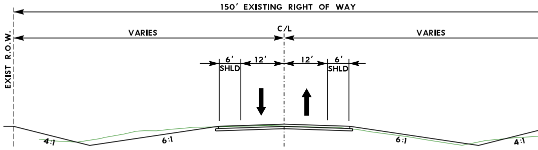
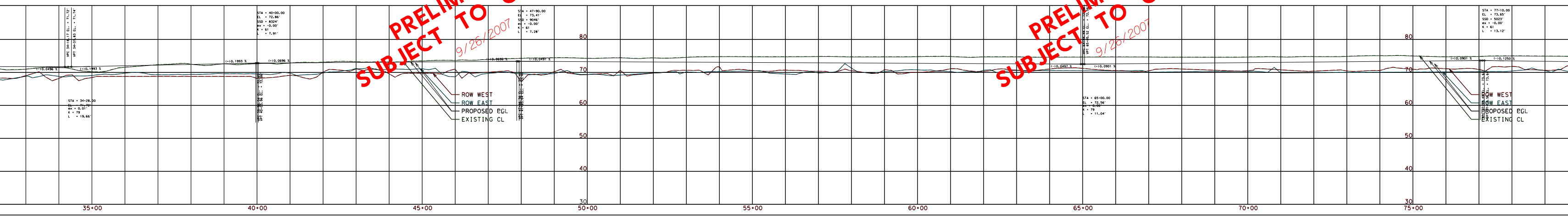
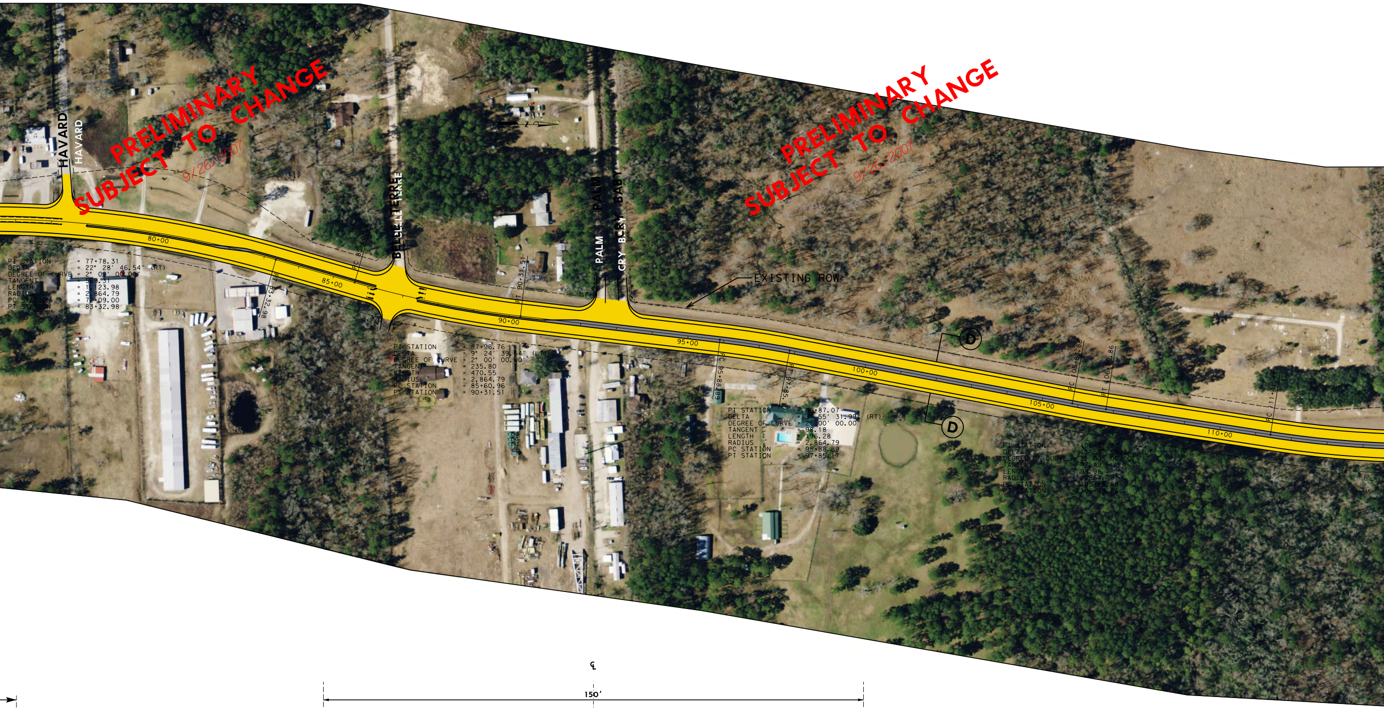
HUFFMAN-EASTGATE


150′ EXISTING RIGHT OF WAY
EXIST R.O.W.
VARIES
C/L
VARIES
6′
SHLD
12′
12′
6′
SHLD
4:1
6:1
6:1
4:1

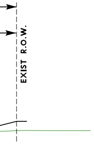
FM 2100 EXISTING TYPICAL SECTION

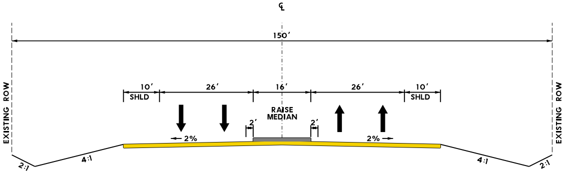



HAVARD
HAVARD
BELLE PIERRE
PALM
PALM
CRY BABY
BABY
EXISTING ROW
80+00
85+00
90+00
95+00
100+00
105+00
110+00
PC 83+32.98
PT 90+31.51
PC 95+88.89
PT 97+85.17
D
D
PI STATION = 77+78.31
DELTA = 22° 28' 46.54" (RT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 569.31
LENGTH = 1,123.98
RADIUS = 2,864.79
PC STATION = 72+09.00
PT STATION = 83+32.98
PI STATION = 87+96.76
DELTA = 9° 24' 39.54" (LT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 235.80
LENGTH = 470.55
RADIUS = 2,864.79
PC STATION = 85+60.96
PT STATION = 90+31.51
PI STATION = 96+87.07
DELTA = 3° 55' 31.99" (RT)
DEGREE OF CURVE = 2° 00' 00.00"
TANGENT = 98.18
LENGTH = 196.28
RADIUS = 2,864.79
PC STATION = 95+88.89
PT STATION = 97+85.17
PI STATION
DELTA
DEGREE OF CURVE
TANGENT
LENGTH
RADIUS
PC STATION
PT STATION

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

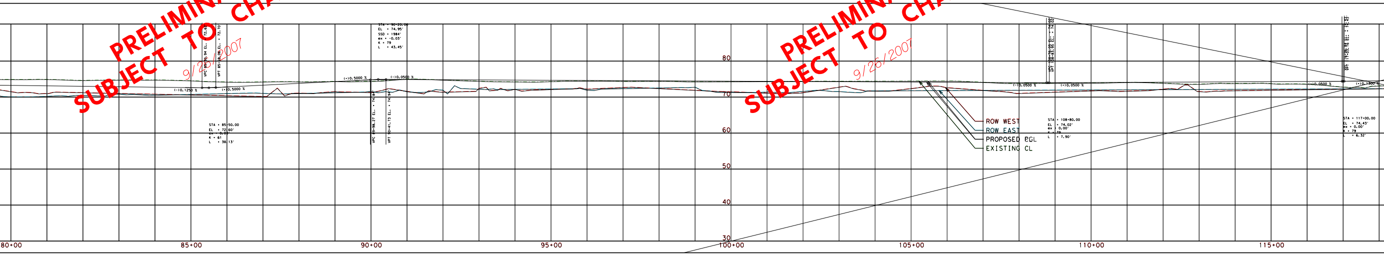



℄
150'
EXISTING ROW
EXISTING ROW
10'
SHLD
26'
16'
RAISE MEDIAN
26'
10'
SHLD
2'
2'
2%
2%
2:1
4:1
4:1
2:1

PROPOSED TYPICAL SECTION D-D

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

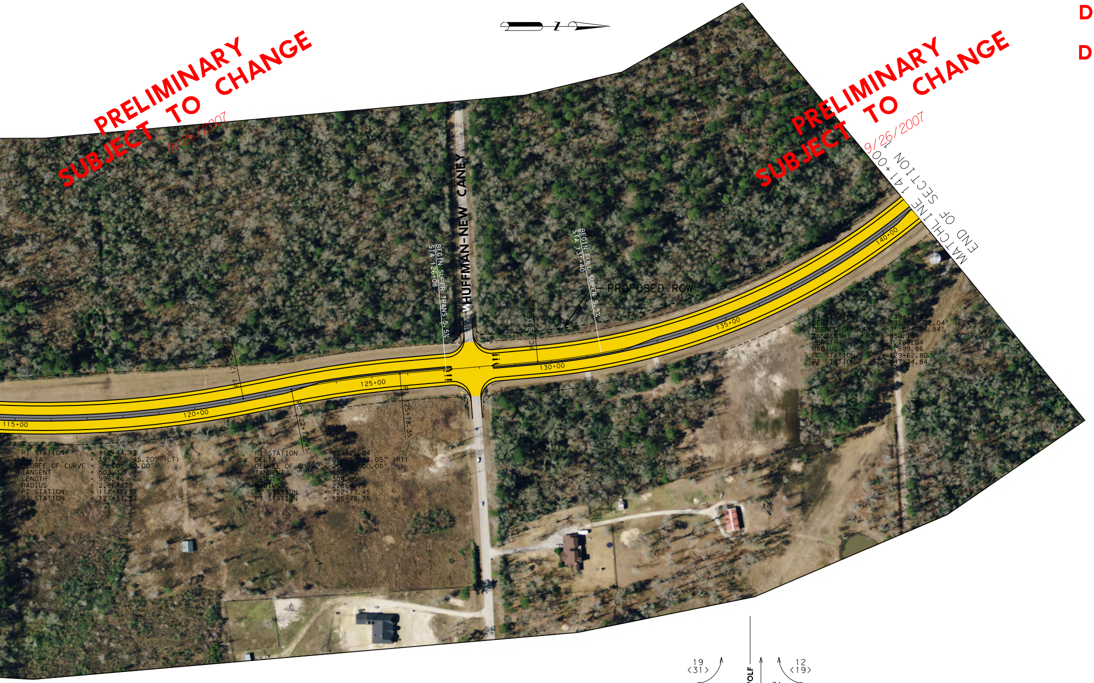


PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

DESIGN SPEED = 45 MPH
(NORTH OF FM 1960)

DESIGN SPEED = 60 MPH
(NORTH OF WOLF ROAD)


N
WHUFFMAN-NEW CANEY
BEGIN SUPER TRANS 5.5%
STA 126+08
BEGIN FULL SUPER 5.5%
STA 131+40
PROPOSED ROW
MATCHLINE 141+00
END OF SECTION
115+00
120+00
125+00
130+00
135+00
140+00
PT 121+37.57
PC 122+73.45
PT 125+78.35
PC 129+62.80

PI STATION = 116+44.42
DELTA = 19° 55′ 45.20″ (LT)
DEGREE OF CURVE = 2° 00′ 00.00″
TANGENT = 503.32
LENGTH = 996.46
RADIUS = 2,864.79
PC STATION = 111+41.11
PT STATION = 121+37.57

PI STATION = 124+26.04
DELTA = 6° 05′ 53.05″ (RT)
DEGREE OF CURVE = 2° 00′ 00.00″
TANGENT = 152.60
LENGTH = 304.90
RADIUS = 2,864.79
PC STATION = 122+73.45
PT STATION = 125+78.35

PI STATION = 139+12.93
DELTA = 53° 08′ 22.04″ (LT)
DEGREE OF CURVE = 3° 00′ 56.84″
TANGENT = 950.12
LENGTH = 1,762.04
RADIUS = 1,899.86
PC STATION = 129+62.80
PT STATION = 147+24.84

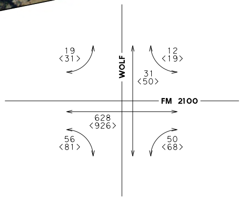
SCHEMATIC LAYOUT
HARRIS COUNTY
FM 2100
Texas Department of Transportation
FROM: FM 1960
TO: WOLF RD
HOUSTON DISTRICT
DATE:
APPROVED:

LEGEND

SYMBOLOGY		LINE WT	COLOR CODE	
MAIN LANES	——	5	BLACK	0
FRONTAGE ROADS AND RAMPS	——	1	BLUE	1
TURNAROUNDS	——	1	BLUE	1
EXISTING RDWY TO BE REMOVED	//////	0	BLACK	0
EXISTING RDWY TO REMAIN	——	2	GREEN	2
EMBANKMENT	—^—^—	3	RED	3
CONTROL OF ACCESS	—╫—	3	RED	3
PROP ROW	—·—·—	5	BLACK	0
EXISTING ROW	— — —	0	BLACK	0
ACCESS ROAD	······	1	BLUE	1
PLANIMETRIC	⌂	2	GREEN	2
TRAFFIC COUNT YEAR ( ) DHV	▭	0	BLACK	0
EXISTING LANE DIRECTIONAL INDICATOR	⇨	0	BLACK	0
PROPOSED LANE DIRECTIONAL INDICATOR	➡	0	BLACK	0
DIRECT CONNECTOR	——	4	ORANGE	6
DEPRESSED	—^—^—	3	RED	3
FUTURE	- - -	1	BLUE	1
RETAINING WALL	——	6	RED	3
STRIPING	▰ ▰	0	ORANGE	6
HIGH OCCUPANCY VEHICLE (HOV)	◆	5	TURQUOISE	65
DIAMOND LANE	◆	5	BROWN	137
MANAGED LANES	——	9	LT PURPLE	42
TEMPORARY CONNECTIONS	——	10	PURPLE	37
RDWY. UNDER CONSTRUCTION	——	5	LT GREEN	197
RECOMMENDED NOISE ABATEMENT WALL	—·—·—	10	PURPLE	203

SCALE: 0 100 200 300 400

🟨	PROPOSED ROADWAY
⬛	PROPOSED MEDIAN
100	YEAR 2004
<200>	YEAR 2024


WOLF
FM 2100
19
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12
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31
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56
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50
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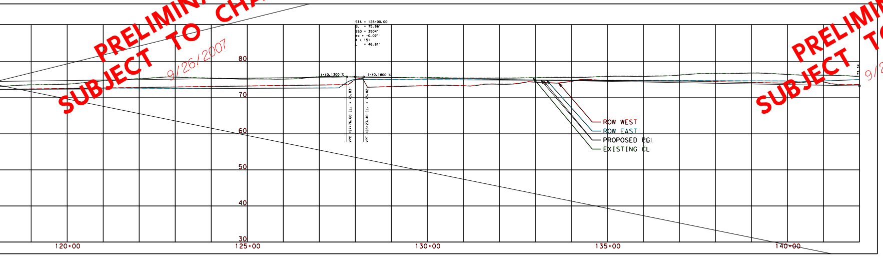
PRELIMINARY
SUBJECT TO CHANGE
9/26/2007

PRELIMINARY
SUBJECT TO CHANGE
9/26/2007