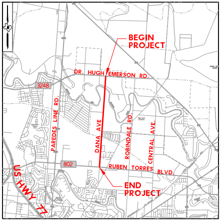
DANA AVE


BEGIN PROJECT
DR. HUGH EMERSON RD.
3248
PAREDES LINE RD.
DANA AVE
ROBINDALE RD.
CENTRAL AVE.
802
RUBEN TORRES BLVD.
US HWY 77
END PROJECT

VICINITY MAP SCALE: 1" = 5000'

DESIGN DATA

DANA AVE
CAMERON COUNTY

CSJ: 0921-06-330, ETC
NET LENGTH OF PROJECT: 2.40 MILES

LIMITS: FM 3248 (DR. HUGH EMERSON RD.)
TO: FM 802 (RUBEN TORRES BLVD.)

FUNCTIONAL CLASSIFICATION: "URBAN STREET-MAJOR COLLECTOR"

ADT (FROM FM 3248 (DR. HUGH EMERSON RD.)
TO MORRISON RD.)
(2030) - 6,800
(2050) - 9,600

ADT (FROM MORRISON RD.
TO FM 802 (RUBEN TORRES BLVD.))
(2030) - 12,500
(2050) - 17,600

DESIGN SPEED: 60 MPH
e MAX = 6%

DESIGN CRITERIA: TxDOT ROADWAY DESIGN MANUAL CHAPTER 3, SECTION 2 "URBAN STREETS"

SCALE:
HOR. = 1''=50'
VER. = 1''=10'

GDJ Engineering
Firm No. - 20061

Civil Engineering Services - Planning and Development - Transportation - Environmental - Water Resources - Construction Management - Geotechnical

2805 Fountain Blvd., Suite A
Edinburg, Texas 78539
Office: (956) 603-2025

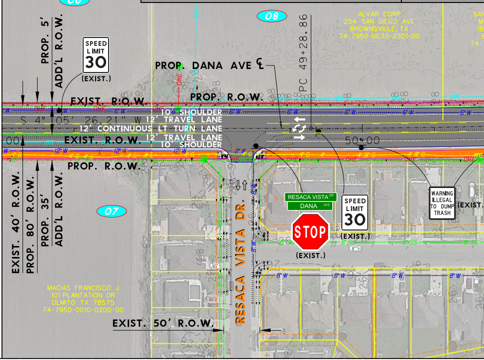
RMA
CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

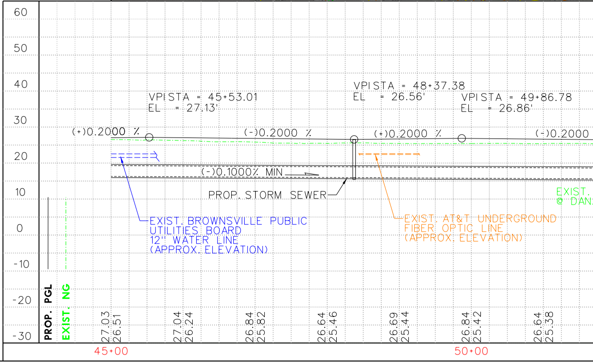
NOTES: 09/29/2023 PUBLIC COMMENT SUBMITTAL
02/01/2024 PUBLIC MEETING

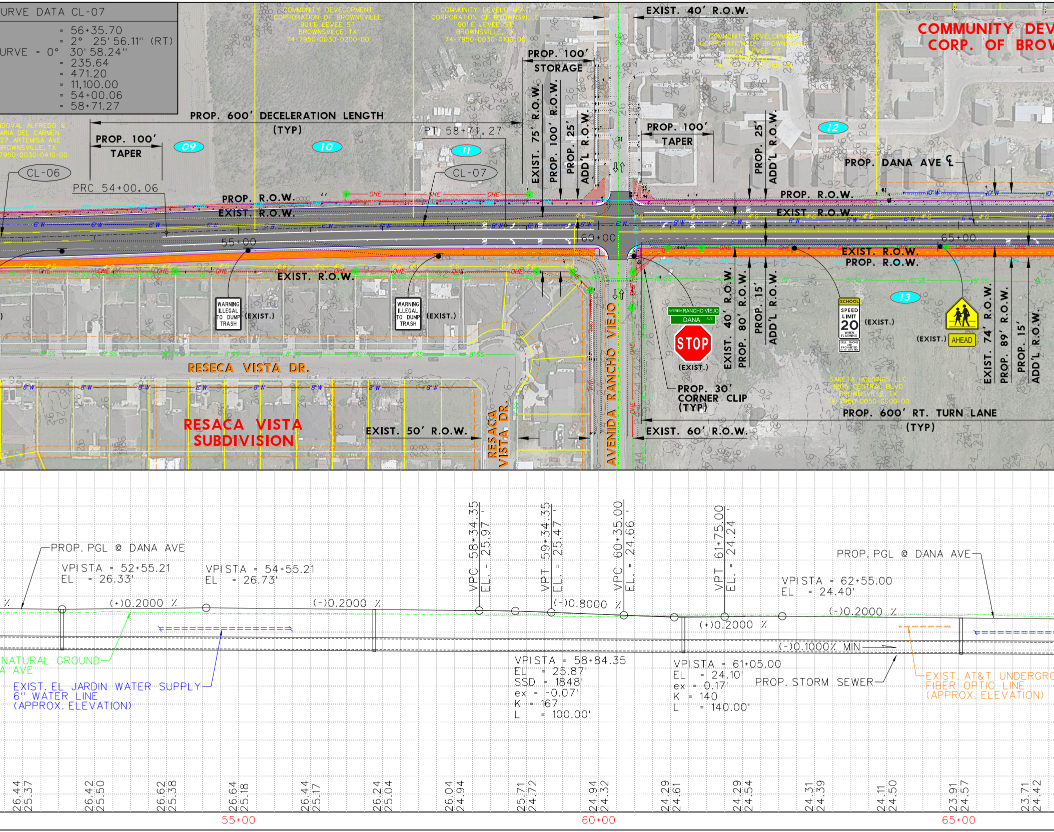
MATCHLINE STA. 45+00.00

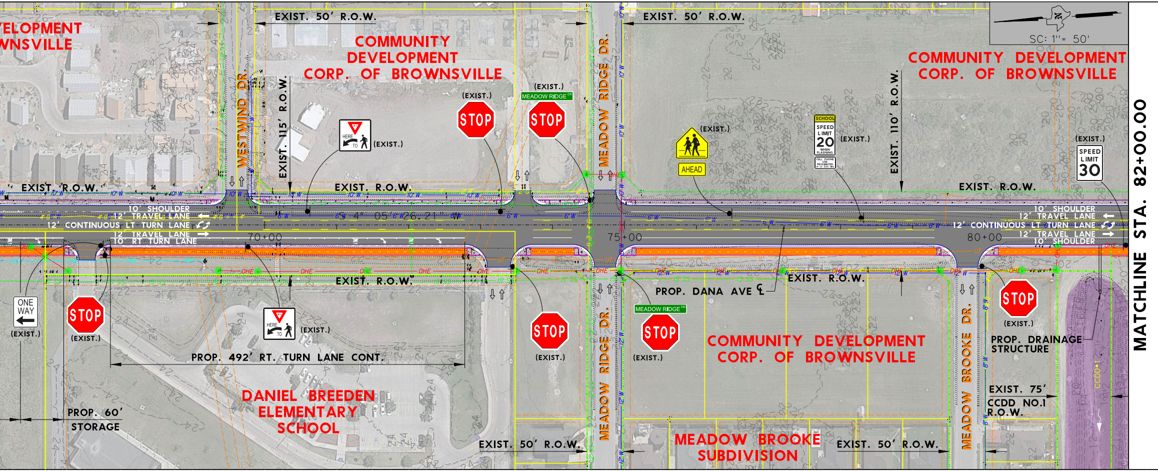
SC: 1''= 50'

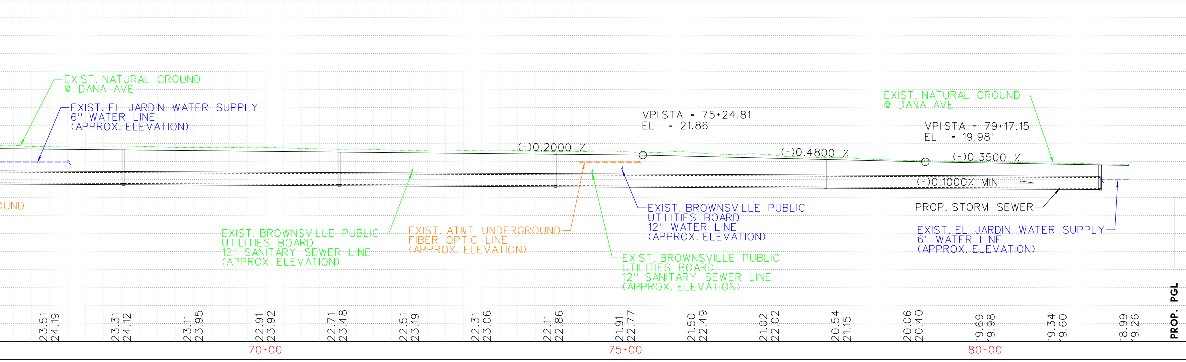
CURVE DATA CL-06		
PI STATION	=	51+64.50
DELTA	=	2° 25' 56.11'' (LT)
DEGREE OF CURVE	=	0° 30' 58.24''
TANGENT	=	235.64
LENGTH	=	471.20
RADIUS	=	11,100.00
PC STATION	=	49+28.86
PT STATION	=	54+00.06


06
08
07
PROP. 5' ADD'L R.O.W.
SPEED LIMIT 30
(EXIST.)
PROP. DANA AVE ℄
PC 49+28.86
ALVAR CORP
254 SAN DIEGO AVE
BROWNSVILLE, TX
74-7950-0030-0301-00
EXIST. R.O.W.
PROP. R.O.W.
OHE
IRR
6" W
10' SHOULDER
S 4° 05' 26.21" W
12' TRAVEL LANE
12' CONTINUOUS LT TURN LANE
12' TRAVEL LANE
10' SHOULDER
EXIST. R.O.W.
50+00
12" W
4" G
15" SS
PROP. R.O.W.
EXIST. 40' R.O.W.
PROP. 80' R.O.W.
PROP. 35' ADD'L R.O.W.
RESACA VISTA DR
DANA AVE
STOP
(EXIST.)
SPEED LIMIT 30
(EXIST.)
WARNING ILLEGAL TO DUMP TRASH
(EXIST.)
8" SS
8" W
RESACA VISTA DR.
MACIAS FRANCISCO J
101 PLANTATION DR
OLMITO TX 78575
74-7950-0010-0200-00
EXIST. 50' R.O.W.




URVE DATA CL-07
= 56+35.70
= 2° 25' 56.11" (RT)
URVE = 0° 30' 58.24"
= 235.64
= 471.20
= 11,100.00
= 54+00.06
= 58+71.27
COMMUNITY DEVELOPMENT CORPORATION OF BROWNSVILLE 901 E LEVEE ST BROWNSVILLE, TX 74-7950-0030-0200-00
COMMUNITY DEVELOPMENT CORPORATION OF BROWNSVILLE 901 E LEVEE ST BROWNSVILLE, TX 74-7950-0030-0100-00
COMMUNITY DEVELOPMENT CORPORATION OF BROWNSVILLE 901 E LEVEE ST BROWNSVILLE, TX 74-7950-0060-0100-00
COMMUNITY DEV
CORP. OF BROV
NDOVAL ALFREDO & ARIA DEL CARMEN 27 ARTEMISA AVE BROWNSVILLE, TX 7950-0030-0410-00
EXIST. 40' R.O.W.
PROP. 100' STORAGE
PROP. 600' DECELERATION LENGTH (TYP)
PROP. 100' TAPER
PT 58+71.27
09
10
11
12
13
CL-06
CL-07
PRC 54+00.06
EXIST. 75' R.O.W.
PROP. 100' R.O.W.
PROP. 25' ADD'L R.O.W.
PROP. 100' TAPER
PROP. 25' ADD'L R.O.W.
PROP. DANA AVE ℄
PROP. R.O.W.
EXIST. R.O.W.
OHE
IRR
6" W
8" W
10" W
4" G
15' SS
8' SS
55+00
60+00
65+00
EXIST. R.O.W.
PROP. R.O.W.
WARNING ILLEGAL TO DUMP TRASH
(EXIST.)
WARNING ILLEGAL TO DUMP TRASH
(EXIST.)
AVENIDA RANCHO VIEJO
DANA AVE
STOP
(EXIST.)
SCHOOL SPEED LIMIT 20 WHEN FLASHING
CELL PHONE USE PROHIBITED UP TO $200 FINE
(EXIST.)
AHEAD
(EXIST.)
EXIST. 40' R.O.W.
PROP. 80' R.O.W.
PROP. 15' ADD'L R.O.W.
EXIST. 74' R.O.W.
PROP. 89' R.O.W.
PROP. 15' ADD'L R.O.W.
PROP. 30' CORNER CLIP (TYP)
SAKETA HOLDINGS LLC 1205 CENTRAL BLVD BROWNSVILLE, TX 74-7950-0050-0000-00
PROP. 600' RT. TURN LANE (TYP)
RESECA VISTA DR.
RESACA VISTA SUBDIVISION
EXIST. 50' R.O.W.
RESACA VISTA DR.
AVENIDA RANCHO VIEJO
EXIST. 60' R.O.W.
PROP. PGL @ DANA AVE
VPI STA = 52+55.21
EL = 26.33'
VPI STA = 54+55.21
EL = 26.73'
(+)0.2000 %
(-)0.2000 %
VPC 58+34.35
EL. = 25.97
VPT 59+34.35
EL. = 25.47
(-)0.8000 %
VPC 60+35.00
EL. = 24.66
VPT 61+75.00
EL. = 24.24
PROP. PGL @ DANA AVE
VPI STA = 62+55.00
EL = 24.40'
(-)0.2000 %
(+)0.2000 %
(-)0.1000% MIN
NATURAL GROUND
A AVE
EXIST. EL JARDIN WATER SUPPLY 6" WATER LINE (APPROX. ELEVATION)
VPI STA = 58+84.35
EL = 25.87'
SSD = 1848'
ex = -0.07'
K = 167
L = 100.00'
VPI STA = 61+05.00
EL = 24.10'
ex = 0.17'
K = 140
L = 140.00'
PROP. STORM SEWER
EXIST. AT&T UNDERGRO FIBER OPTIC LINE (APPROX. ELEVATION)
26.44 25.37
26.42 25.50
26.62 25.38
26.64 25.18
26.44 25.17
26.24 25.04
26.04 24.94
25.71 24.72
24.94 24.32
24.29 24.61
24.29 24.54
24.31 24.39
24.11 24.50
23.91 24.57
23.71 24.42
55+00
60+00
65+00


ELOPMENT
WNSVILLE
EXIST. 50' R.O.W.
COMMUNITY DEVELOPMENT CORP. OF BROWNSVILLE
WESTWIND DR.
EXIST. 115' R.O.W.
(EXIST.)
HERE TO
STOP
MEADOW RIDGE DR
MEADOW RIDGE DR.
(EXIST.)
AHEAD
SCHOOL SPEED LIMIT 20 WHEN FLASHING
EXIST. 110' R.O.W.
SPEED LIMIT 30
SC: 1"= 50'
EXIST. R.O.W.
10' SHOULDER
12' TRAVEL LANE
12' CONTINUOUS LT TURN LANE
10' RT TURN LANE
70+00
75+00
80+00
ONE WAY
PROP. 492' RT. TURN LANE CONT.
PROP. 60' STORAGE
DANIEL BREEDEN ELEMENTARY SCHOOL
PROP. DANA AVE ℄
MEADOW BROOKE DR.
PROP. DRAINAGE STRUCTURE
EXIST. 75' CCDD NO.1 R.O.W.
MEADOW BROOKE SUBDIVISION
MATCHLINE STA. 82+00.00


EXIST. NATURAL GROUND @ DANA AVE
EXIST. EL JARDIN WATER SUPPLY 6" WATER LINE (APPROX. ELEVATION)
UND
VPISTA = 75+24.81
EL = 21.86'
(-)0.2000 %
(-)0.4800 %
VPISTA = 79+17.15
EL = 19.98'
(-)0.3500 %
(-)0.1000% MIN
EXIST. NATURAL GROUND @ DANA AVE
PROP. STORM SEWER
EXIST. BROWNSVILLE PUBLIC UTILITIES BOARD 12" SANITARY SEWER LINE (APPROX. ELEVATION)
EXIST. AT&T UNDERGROUND FIBER OPTIC LINE (APPROX. ELEVATION)
EXIST. BROWNSVILLE PUBLIC UTILITIES BOARD 12" WATER LINE (APPROX. ELEVATION)
EXIST. BROWNSVILLE PUBLIC UTILITIES BOARD 12" SANITARY SEWER LINE (APPROX. ELEVATION)
EXIST. EL JARDIN WATER SUPPLY 6" WATER LINE (APPROX. ELEVATION)
23.51 24.19
23.31 24.12
23.11 23.95
22.91 23.92
22.71 23.48
22.51 23.19
22.31 23.06
22.11 22.86
21.91 22.77
21.50 22.49
21.02 22.02
20.54 21.15
20.06 20.40
19.69 19.98
19.34 19.60
18.99 19.26
PROP. PGL
70+00
75+00
80+00

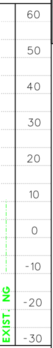
EXISTING TYPICAL SECTION (DANA AVE)

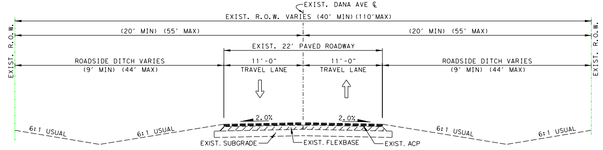
PLAN LEGEND

EXISTING RIGHT OF WAY
PROPOSED RIGHT OF WAY
PROPERTY LINES
PROPOSED CURB & GUTTER
UTILITY EASEMENT
PROPOSED ROADWAY
AREA WITHIN R.O.W. TAKING
PROPOSED SIDEWALK
EXISTING DRAINAGE CHANNEL/OUTFALL
EXISTING BODY OF WATER
PROP. SHARED USE PATH TRAIL
PROP. BRIDGE
EXIST. DRAINAGE STRUCTURE/CHANNEL
PROP. DRAINAGE STRUCTURE/CHANNEL
CL-XX CURVE DATA ID
PROPOSED TRAFFIC FLOW
EXISTING TRAFFIC FLOW
DRAINAGE FLOW
XX PARCEL COUNTS ID
PROPERTY ID: 123456 OWNER NAME PROPERTY OWNER INFO

UTILITIES LEGEND

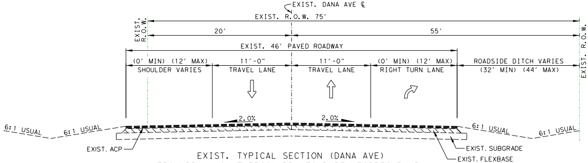
W	EXIST. WATER LINE
G	EXIST. GAS LINE
SS	EXIST. SANITARY SEWER LINE
FM	EXIST. SANITARY SEWER FORCEMAIN
OHE	EXIST. OVERHEAD POWER LINE
HVTL	HIGH VOLTAGE TRANSMISSION LINE W/ POLE
UT	EXIST. UNDERGROUND TRANSMISSION LINE




EXIST. DANA AVE ℄
EXIST. R.O.W. VARIES (40' MIN)(110'MAX)
EXIST. R.O.W.
EXIST. R.O.W.
(20' MIN) (55' MAX)
(20' MIN) (55' MAX)
EXIST. 22' PAVED ROADWAY
ROADSIDE DITCH VARIES (9' MIN) (44' MAX)
11'-0" TRAVEL LANE
11'-0" TRAVEL LANE
ROADSIDE DITCH VARIES (9' MIN) (44' MAX)
2.0%
2.0%
6:1 USUAL
6:1 USUAL
6:1 USUAL
6:1 USUAL
EXIST. SUBGRADE
EXIST. FLEXBASE
EXIST. ACP

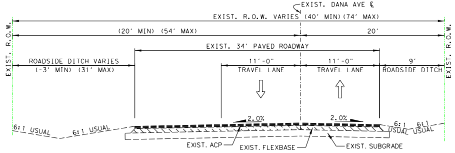
EXIST. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)

STA. 10+82.82 TO STA. 56+06.75
STA. 82+15.96 TO STA. 132+46.93
STA. 137+49.91 TO STA. 141+25.00
STA. 56+06.75 TO STA. 56+81.86 (22' TO 33' RDWY. TRANSITION)
STA. 68+33.74 TO STA. 71+37.48 (34' TO 46' RDWY. TRANSITION)
STA. 76+75.99 TO STA. 82+15.96 (46' TO 22' RDWY. TRANSITION)
STA. 132+46.93 TO STA. 133+23.02 (22' TO 32' RDWY. TRANSITION)
STA. 135+41.35 TO STA. 137+41.91 (32' TO 22' RDWY. TRANSITION)


EXIST. DANA AVE ℄
EXIST. R.O.W. 75'
EXIST. R.O.W.
EXIST. R.O.W.
20'
55'
EXIST. 46' PAVED ROADWAY
(0' MIN) (12' MAX) SHOULDER VARIES
11'-0" TRAVEL LANE
11'-0" TRAVEL LANE
(0' MIN) (12' MAX) RIGHT TURN LANE
ROADSIDE DITCH VARIES (32' MIN) (44' MAX)
2.0%
2.0%
6:1 USUAL
6:1 USUAL
6:1 USUAL
6:1 USUAL
EXIST. ACP
EXIST. SUBGRADE
EXIST. FLEXBASE

EXIST. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)

STA. 56+06.75 TO STA. 59+80.22
STA. 56+06.75 TO STA. 56+81.86 (22' TO 34' RDWY. TRANSITION)
STA. 58+12.68 TO STA. 59+37.97 (34' TO 46' RDWY. TRANSITION)
STA. 59+80.22 TO STA. 60+75.65 (46' TO 34' RDWY. TRANSITION)

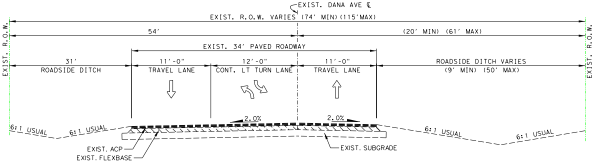

EXIST. DANA AVE ℄
EXIST. R.O.W. VARIES (40' MIN)(74' MAX)
EXIST. R.O.W.
EXIST. R.O.W.
(20' MIN) (54' MAX)
20'
EXIST. 34' PAVED ROADWAY
ROADSIDE DITCH VARIES (-3' MIN) (31' MAX)
11'-0" TRAVEL LANE
11'-0" TRAVEL LANE
9' ROADSIDE DITCH
2.0%
2.0%
6:1 USUAL
6:1 USUAL
6:1 USUAL
6:1 USUAL
EXIST. ACP
EXIST. FLEXBASE
EXIST. SUBGRADE

EXIST. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)

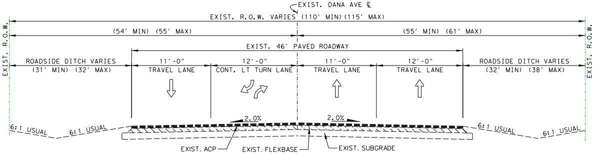
STA. 60+75.65 TO STA. 66+75.00
STA. 59+80.22 TO STA. 60+75.65 (46' TO 34' RDWY. TRANSITION)

PRELIMINARY
SUBJECT TO REVISION
1/24/2024

EXISTING TYPICAL SECTION (DANA AVE)

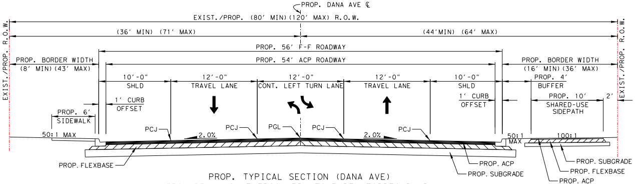

EXIST. DANA AVE ℄
EXIST. R.O.W. VARIES (74' MIN)(115'MAX)
EXIST. R.O.W.
EXIST. R.O.W.
54'
(20' MIN) (61' MAX)
EXIST. 34' PAVED ROADWAY
31'
ROADSIDE DITCH
11'-0"
TRAVEL LANE
12'-0"
CONT. LT TURN LANE
11'-0"
TRAVEL LANE
ROADSIDE DITCH VARIES
(9' MIN) (50' MAX)
2.0%
2.0%
6:1 USUAL
6:1 USUAL
6:1 USUAL
6:1 USUAL
EXIST. ACP
EXIST. FLEXBASE
EXIST. SUBGRADE

EXIST. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)
STA. 66+75.00 TO STA. 68+33.74
STA. 68+33.74 TO STA. 71+37.48 (34' TO 46' RDWY. TRANSITION)


EXIST. DANA AVE ℄
EXIST. R.O.W. VARIES (110' MIN)(115' MAX)
EXIST. R.O.W.
EXIST. R.O.W.
(54' MIN) (55' MAX)
(55' MIN) (61' MAX)
EXIST. 46' PAVED ROADWAY
ROADSIDE DITCH VARIES
(31' MIN) (32' MAX)
11'-0"
TRAVEL LANE
12'-0"
CONT. LT TURN LANE
11'-0"
TRAVEL LANE
12'-0"
TRAVEL LANE
ROADSIDE DITCH VARIES
(32' MIN) (38' MAX)
2.0%
2.0%
6:1 USUAL
6:1 USUAL
6:1 USUAL
6:1 USUAL
EXIST. ACP
EXIST. FLEXBASE
EXIST. SUBGRADE

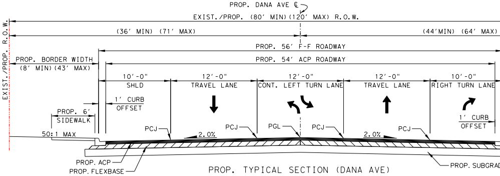
EXIST. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)
STA. 71+37.48 TO STA. 75+75.99
STA. 68+33.74 TO STA. 71+37.48 (34' TO 46' RDWY. TRANSITION)
STA. 71+37.48 TO STA. 82+15.96 (46' TO 22' RDWY. TRANSITION)

PROPOSED TYPICAL SECTION (DANA AVE)


PROP. DANA AVE ℄
EXIST./PROP. (80' MIN)(120' MAX) R.O.W.
EXIST./PROP. R.O.W.
EXIST./PROP. R.O.W.
(36' MIN) (71' MAX)
(44'MIN) (64' MAX)
PROP. 56' F-F ROADWAY
PROP. 54' ACP ROADWAY
PROP. BORDER WIDTH
(8' MIN)(43' MAX)
10'-0"
SHLD
12'-0"
TRAVEL LANE
12'-0"
CONT. LEFT TURN LANE
12'-0"
TRAVEL LANE
10'-0"
SHLD
PROP. BORDER WIDTH
(16' MIN)(36' MAX)
PROP. 4'
BUFFER
1' CURB
OFFSET
1' CURB
OFFSET
PROP. 10'
SHARED-USE
SIDEPATH
2'
PROP. 6'
SIDEWALK
50:1 MAX
PCJ
2.0%
PCJ
PGL
PCJ
2.0%
PCJ
50:1
MAX
100:1
PROP. FLEXBASE
PROP. ACP
PROP. SUBGRADE
PROP. SUBGRADE
PROP. FLEXBASE
PROP. ACP

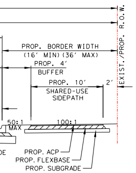
PROP. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)
STA. 17+81.44 TO STA. 52+94.25
STA. 72+78.10 TO STA. 92+20.55
STA. 102+38.50 TO STA. 128+41.09

PROPOSED TYPICAL SECTION (DAN

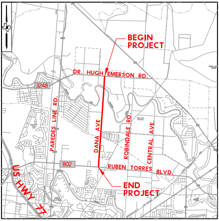

PROP. DANA AVE ℄
EXIST./PROP. (80' MIN)(120' MAX) R.O.W.
EXIST./PROP. R.O.W.
(36' MIN) (71' MAX)
(44'MIN) (64' MAX)
PROP. 56' F-F ROADWAY
PROP. 54' ACP ROADWAY
PROP. BORDER WIDTH
(8' MIN)(43' MAX)
10'-0"
SHLD
12'-0"
TRAVEL LANE
12'-0"
CONT. LEFT TURN LANE
12'-0"
TRAVEL LANE
10'-0"
RIGHT TURN LANE
1' CURB
OFFSET
1' CURB
OFFSET
PROP. 6'
SIDEWALK
50:1 MAX
PCJ
2.0%
PCJ
PGL
PCJ
2.0%
PCJ
PROP. ACP
PROP. FLEXBASE
PROP. SUBGRAD

PROP. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)
STA. 52+94.25 TO STA. 59+94.25
STA. 60+59.54 TO STA. 72+78.10
STA. 92+20.55 TO STA. 102+38.50
STA. 128+41.09 TO STA. 135+41.35

A AVE)



EXIST./PROP. R.O.W.
PROP. BORDER WIDTH
(16' MIN) (36' MAX)
PROP. 4'
BUFFER
PROP. 10'
2'
SHARED-USE
SIDEPATH
50:1
MAX
100:1
DE
PROP. ACP
PROP. FLEXBASE
PROP. SUBGRADE



BEGIN
PROJECT
DR. HUGH EMERSON RD.
3248
PAREDES LINE RD.
DANA AVE
ROBINDALE RD.
CENTRAL AVE.
802
RUBEN TORRES BLVD
US HWY 77
END
PROJECT

VICINITY MAP SCALE: 1" = 5000'

DESIGN DATA

DANA AVE
CAMERON COUNTY

CSJ: 0921-06-330, ETC
NET LENGTH OF PROJECT: 2.40 MILES

LIMITS: FM 3248 (DR. HUGH EMERSON RD.)
TO: FM 802 (RUBEN TORRES BLVD.)

FUNCTIONAL
CLASSIFICATION:"URBAN STREET-MAJOR COLLECTOR"

ADT (FROM FM 3248 (DR. HUGH EMERSON RD.)
TO MORRISON RD.)
(2030) - 6,800
(2050) - 9,600

ADT (FROM MORRISON RD.
TO FM 802 (RUBEN TORRES BLVD.))
(2030) - 12,500
(2050) - 17,600

DESIGN SPEED: 60 MPH
e MAX = 6%

DESIGN CRITERIA: TxDOT ROADWAY DESIGN
MANUAL CHAPTER 3, SECTION 2
"URBAN STREETS"

THIS DOCUMENT IS FOR
INTERIM REVIEW AND
NOT INTENDED FOR
CONSTRUCTION, BIDDING,
OR PERMIT PURPOSES.

CHRISTOPHER R. RODRIGUEZ
P.E. 107692
1/24/2024
DATE

SCALE:
HOR. = 1"=50'
VER. = 1"=10'

GDJ Engineering
Firm No. - 20061

Civil Engineering Services -
Planning and Development -
Transportation - Environmental -
Water Resources - Construction
Management - Geotechnical
2805 Fountain Blvd., Suite A
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RMA
CAMERON COUNTY REGIONAL
MOBILITY AUTHORITY

NOTES: 09/29/2023 PUBLIC COMMENT SUBMITTAL
02/01/2024 PUBLIC MEETING