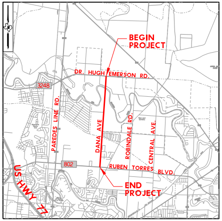
DANA AVE


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

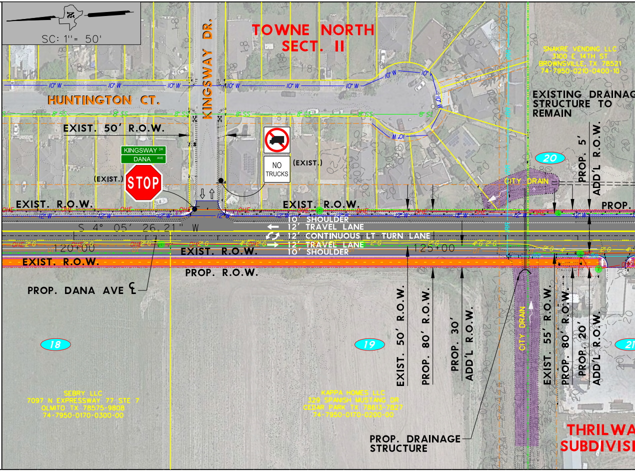
Civil Engineering Services - Planning and Development - Transportation - Environmental - Water Resources - Construction Management - Geotechnical

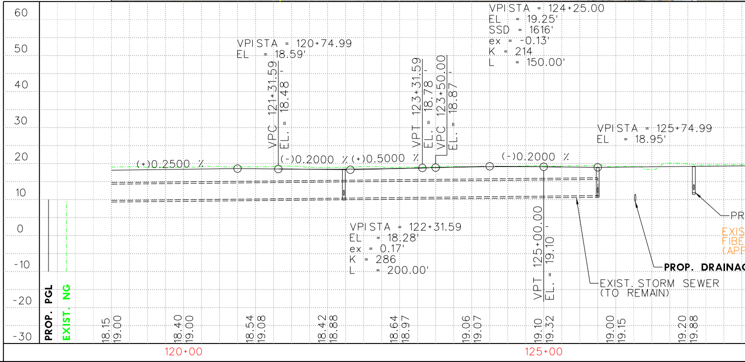
2805 Fountain Blvd., Suite A
Edinburg, Texas 78539
Office: (956) 603-2025

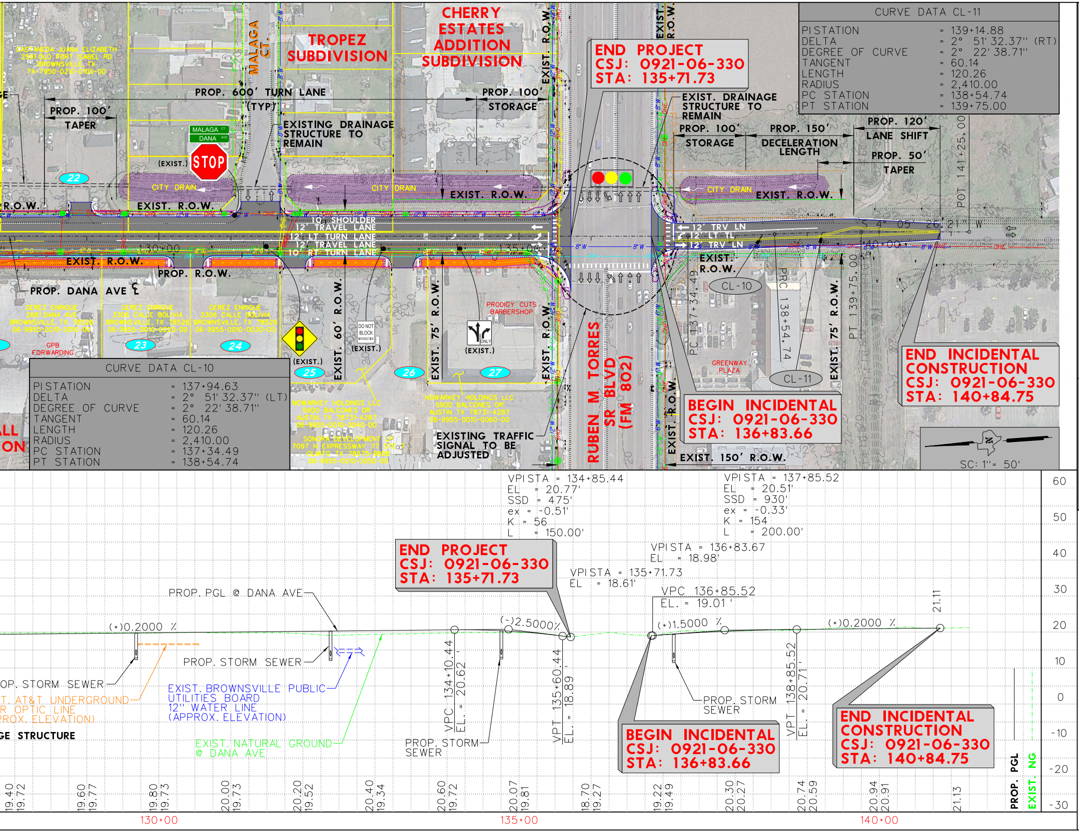
RMA
CAMERON COUNTY REGIONAL MOBILITY AUTHORITY

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

MATCHLINE STA. 119+00.00


SC: 1"= 50'
TOWNE NORTH SECT. II
KINGSWAY DR.
HUNTINGTON CT.
EXIST. 50' R.O.W.
KINGSWAY DR
DANA AVE
STOP
(EXIST.)
NO TRUCKS
(EXIST.)
SNAKRE VENDING LLC
3100 E 14TH ST
BROWNSVILLE, TX 78521
74-7950-0210-0400-10
EXISTING DRAINAGE STRUCTURE TO REMAIN
20
CITY DRAIN
PROP. 5' ADD'L R.O.W.
PROP.
EXIST. R.O.W.
EXIST. R.O.W.
S 4° 05' 26.21" W
10' SHOULDER
12' TRAVEL LANE
12' CONTINUOUS LT TURN LANE
12' TRAVEL LANE
10' SHOULDER
120+00
125+00
EXIST. R.O.W.
EXIST. R.O.W.
PROP. R.O.W.
PROP. DANA AVE ℄
18
19
21
EXIST. 50' R.O.W.
PROP. 80' R.O.W.
PROP. 30' ADD'L R.O.W.
CITY DRAIN
EXIST. 55' R.O.W.
PROP. 80' R.O.W.
PROP. 20' ADD'L R.O.W.
SEBRY LLC
7097 N EXPRESSWAY 77 STE 7
OLMITO TX 78575-9808
74-7950-0170-0300-00
KAPPA HOMES LLC
329 SPANISH MUSTANG DR
CEDAR PARK TX 78613-7827
74-7950-0170-0200-00
PROP. DRAINAGE STRUCTURE
THRILWA
SUBDIVISI


60
50
40
30
20
10
0
-10
-20
-30
VPI STA = 124+25.00
EL = 19.25'
SSD = 1616'
ex = -0.13'
K = 214
L = 150.00'
VPI STA = 120+74.99
EL = 18.59'
VPC 121+31.59
EL. = 18.48
VPT 123+31.59
EL. = 18.78
VPC 123+50.00
EL. = 18.87
VPI STA = 125+74.99
EL = 18.95'
(+)0.2500 %
(-)0.2000 %
(+)0.5000 %
(-)0.2000 %
VPI STA = 122+31.59
EL = 18.28'
ex = 0.17'
K = 286
L = 200.00'
VPT 125+00.00
EL. = 19.10
EXIST. STORM SEWER (TO REMAIN)
PROP. DRAINAG
PR
EXIS
FIBE
(APP
PROP. PGL
EXIST. NG
18.15
19.00
18.40
19.00
18.54
19.08
18.42
18.88
18.64
18.97
19.06
19.07
19.10
19.32
19.00
19.15
19.20
19.88
120+00
125+00



CURVE DATA CL-11

PI STATION	= 139+14.88
DELTA	= 2° 51' 32.37" (RT)
DEGREE OF CURVE	= 2° 22' 38.71"
TANGENT	= 60.14
LENGTH	= 120.26
RADIUS	= 2,410.00
PC STATION	= 138+54.74
PT STATION	= 139+75.00

CURVE DATA CL-10

PI STATION	= 137+94.63
DELTA	= 2° 51' 32.37" (LT)
DEGREE OF CURVE	= 2° 22' 38.71"
TANGENT	= 60.14
LENGTH	= 120.26
RADIUS	= 2,410.00
PC STATION	= 137+34.49
PT STATION	= 138+54.74

CHERRY ESTATES ADDITION SUBDIVISION
TROPEZ SUBDIVISION
MALAGA CT.
CASTANEDA JUANA ELIZABETH
2581 OLD PORT ISABEL RD
BROWNSVILLE, TX
74-7950-0210-0100-00
END PROJECT
CSJ: 0921-06-330
STA: 135+71.73
PROP. 600' TURN LANE
(TYP)
PROP. 100' STORAGE
PROP. 100' TAPER
EXISTING DRAINAGE STRUCTURE TO REMAIN
EXIST. DRAINAGE STRUCTURE TO REMAIN
PROP. 100' STORAGE
PROP. 150' DECELERATION LENGTH
PROP. 120' LANE SHIFT
PROP. 50' TAPER
MALAGA CT
DANA AVE
STOP
(EXIST.)
22
CITY DRAIN
EXIST. R.O.W.
R.O.W.
10' SHOULDER
12' TRAVEL LANE
12' LT TURN LANE
12' TRAVEL LANE
10' RT TURN LANE
130+00
135+00
140+00
12' TRV LN
12' LT TL
12' TRV LN
EXIST. R.O.W.
PROP. R.O.W.
PROP. DANA AVE ℄
POT 141+25.00
GEREZ ENRIQUE
2581 DANA AVE
BROWNSVILLE, TX 78526
06-9955-0010-0010-00
GEREZ ENRIQUE
3306 CALLE BOLIVIA
BROWNSVILLE, TX 78526
06-9955-0010-0020-00
GEREZ ENRIQUE
3306 CALLE BOLIVIA
BROWNSVILLE, TX 78526
06-9955-0010-0030-00
GPB FORWARDING
23
24
25
26
27
(EXIST.)
DO NOT BLOCK INTERSECTION
ONLY
EXIST. 60' R.O.W.
EXIST. 75' R.O.W.
EXIST. R.O.W.
PRODIGY CUTS BARBERSHOP
NOWARKEY HOLDINGS LLC
5900 BALCONES DR
AUSTIN TX 78731-4287
06-9955-0010-0040-00
NOWARKEY HOLDINGS LLC
5900 BALCONES DR
AUSTIN TX 78731-4287
06-9955-0010-0060-00
SONORA DEVELOPMENT
7097 N EXPRESSWAY 77
OLMITO TX 78575
06-9955-0010-0050-00
EXISTING TRAFFIC SIGNAL TO BE ADJUSTED
RUBEN M TORRES SR BLVD (FM 802)
EXIST. R.O.W.
EXIST. 150' R.O.W.
CL-10
CL-11
PC 137+34.49
PRC 138+54.74
PT 139+75.00
EXIST. 75' R.O.W.
GREENWAY PLAZA
BEGIN INCIDENTAL
CSJ: 0921-06-330
STA: 136+83.66
END INCIDENTAL CONSTRUCTION
CSJ: 0921-06-330
STA: 140+84.75
SC: 1"= 50'
VPI STA = 134+85.44
EL = 20.77'
SSD = 475'
ex = -0.51'
K = 56
L = 150.00'
VPI STA = 137+85.52
EL = 20.51'
SSD = 930'
ex = -0.33'
K = 154
L = 200.00'
VPI STA = 136+83.67
EL = 18.98'
VPI STA = 135+71.73
EL = 18.61'
VPC 136+85.52
EL. = 19.01'
END PROJECT
CSJ: 0921-06-330
STA: 135+71.73
PROP. PGL @ DANA AVE
(+)0.2000 %
(-)2.5000%
(+)1.5000 %
(+)0.2000 %
21.11
PROP. STORM SEWER
OP. STORM SEWER
T. AT&T UNDERGROUND
R OPTIC LINE
ROX. ELEVATION)
GE STRUCTURE
EXIST. BROWNSVILLE PUBLIC UTILITIES BOARD
12" WATER LINE
(APPROX. ELEVATION)
EXIST. NATURAL GROUND @ DANA AVE
VPC 134+10.44
EL. = 20.62'
VPT 135+60.44
EL. = 18.89'
PROP. STORM SEWER
PROP. STORM SEWER
VPT 138+85.52
EL. = 20.71'
BEGIN INCIDENTAL
CSJ: 0921-06-330
STA: 136+83.66
END INCIDENTAL CONSTRUCTION
CSJ: 0921-06-330
STA: 140+84.75
PROP. PGL
EXIST. NG
60
50
40
30
20
10
0
-10
-20
-30
19.40 19.72
19.60 19.77
19.80 19.73
20.00 19.73
20.20 19.52
20.40 19.34
20.60 19.72
20.07 19.81
18.70 19.27
19.22 19.49
20.30 20.27
20.74 20.59
20.94 20.91
21.13
130+00
135+00
140+00

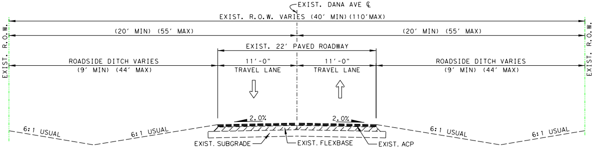
PLAN LEGEND

- 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

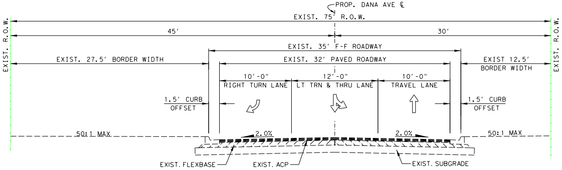
- W EXIST. WATER LINE
- G EXIST. GAS LINE
- SS EXIST. SANITARY SEWER LINE
- FM EXIST. SANITARY SEWER FORCEMAIN
- OHE EXIST. OVERHEAD POWER LINE
- HVTL HIGH VOLTAGE TRANSMISSION LINE W/ POLE
- UT EXIST. UNDERGROUND TRANSMISSION LINE

EXISTING TYPICAL SECTION (DANA AVE)


EXIST. DANA AVE ℄
EXIST. R.O.W. VARIES (40' MIN) (110' MAX)
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)
EXIST. R.O.W.
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)

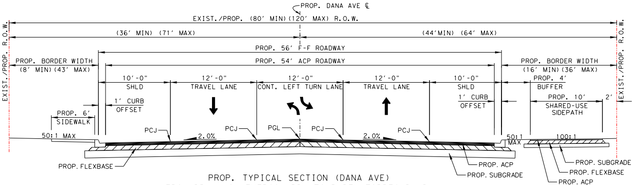

PROP. DANA AVE ℄
EXIST. 75' R.O.W.
EXIST. R.O.W.
45'
30'
EXIST. 35' F-F ROADWAY
EXIST. 32' PAVED ROADWAY
EXIST. 27.5' BORDER WIDTH
EXIST 12.5' BORDER WIDTH
10'-0" RIGHT TURN LANE
12'-0" LT TRN & THRU LANE
10'-0" TRAVEL LANE
1.5' CURB OFFSET
1.5' CURB OFFSET
EXIST. R.O.W.
50:1 MAX
2.0%
2.0%
50:1 MAX
EXIST. FLEXBASE
EXIST. ACP
EXIST. SUBGRADE

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

STA. 133+23.02 TO STA. 135+41.35
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)

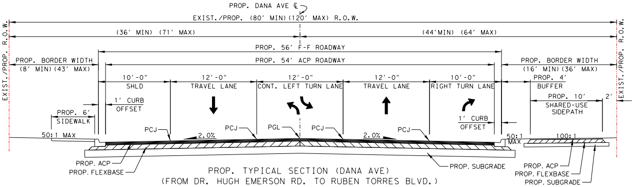
PRELIMINARY
SUBJECT TO REVISION
1/24/2024

PROPOSED TYPICAL SECTION (DANA AVE)


PROP. DANA AVE ℄
EXIST./PROP. (80' MIN) (120' MAX) R.O.W.
(36' MIN) (71' MAX)
(44' MIN) (64' MAX)
EXIST./PROP. R.O.W.
EXIST./PROP. R.O.W.
PROP. 56' F-F ROADWAY
PROP. 54' ACP ROADWAY
PROP. BORDER WIDTH (8' MIN) (43' MAX)
PROP. BORDER WIDTH (16' MIN) (36' MAX)
10'-0" SHLD
12'-0" TRAVEL LANE
12'-0" CONT. LEFT TURN LANE
12'-0" TRAVEL LANE
10'-0" SHLD
1' CURB OFFSET
1' CURB OFFSET
PROP. 4' BUFFER
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

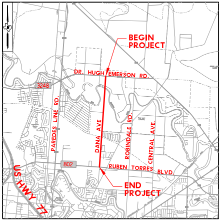
PROP. TYPICAL SECTION (DANA AVE)
(FROM DR. HUGH EMERSON RD. TO RUBEN TORRES BLVD.)

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


PROP. DANA AVE ℄
EXIST./PROP. (80' MIN) (120' MAX) R.O.W.
(36' MIN) (71' MAX)
(44' MIN) (64' MAX)
EXIST./PROP. R.O.W.
EXIST./PROP. R.O.W.
PROP. 56' F-F ROADWAY
PROP. 54' ACP ROADWAY
PROP. BORDER WIDTH (8' MIN) (43' MAX)
PROP. BORDER WIDTH (16' MIN) (36' 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. 4' BUFFER
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. ACP
PROP. FLEXBASE
PROP. SUBGRADE
PROP. ACP
PROP. FLEXBASE
PROP. SUBGRADE

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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DANA AVE
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RUBEN TORRES BLVD.
END PROJECT
US HWY 77

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"

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(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

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RMA
CAMERON COUNTY REGIONAL
MOBILITY AUTHORITY

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02/01/2024 PUBLIC MEETING