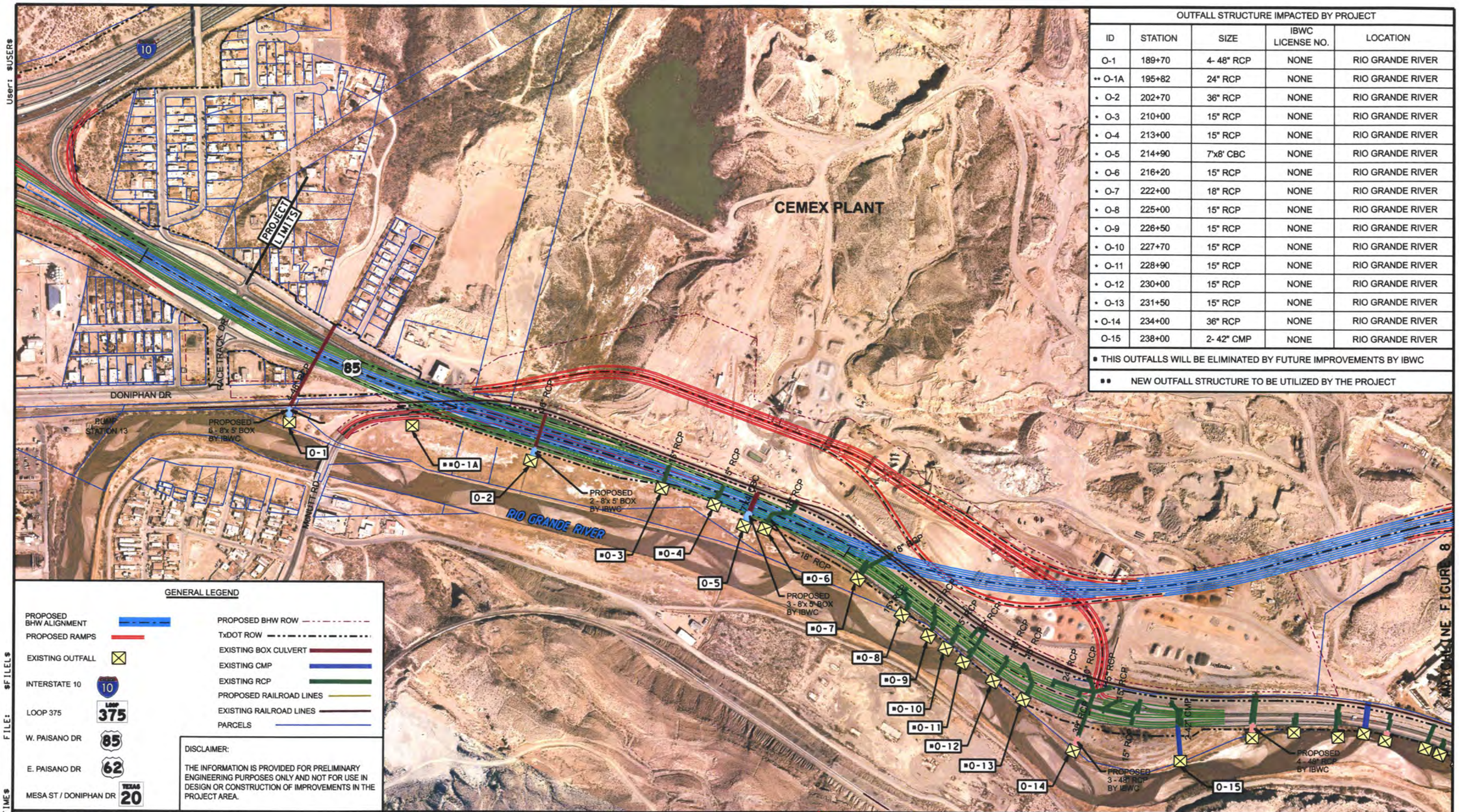
User: $USER$

FILE: $FILE$

TIME: $TIME$

DATE: $DATE$



OUTFALL STRUCTURE IMPACTED BY PROJECT				
ID	STATION	SIZE	IBWC LICENSE NO.	LOCATION
O-1	189+70	4- 48" RCP	NONE	RIO GRANDE RIVER
■■ O-1A	195+82	24" RCP	NONE	RIO GRANDE RIVER
■ O-2	202+70	36" RCP	NONE	RIO GRANDE RIVER
■ O-3	210+00	15" RCP	NONE	RIO GRANDE RIVER
■ O-4	213+00	15" RCP	NONE	RIO GRANDE RIVER
■ O-5	214+90	7'x8' CBC	NONE	RIO GRANDE RIVER
■ O-6	216+20	15" RCP	NONE	RIO GRANDE RIVER
■ O-7	222+00	18" RCP	NONE	RIO GRANDE RIVER
■ O-8	225+00	15" RCP	NONE	RIO GRANDE RIVER
■ O-9	226+50	15" RCP	NONE	RIO GRANDE RIVER
■ O-10	227+70	15" RCP	NONE	RIO GRANDE RIVER
■ O-11	228+90	15" RCP	NONE	RIO GRANDE RIVER
■ O-12	230+00	15" RCP	NONE	RIO GRANDE RIVER
■ O-13	231+50	15" RCP	NONE	RIO GRANDE RIVER
■ O-14	234+00	36" RCP	NONE	RIO GRANDE RIVER
O-15	238+00	2- 42" CMP	NONE	RIO GRANDE RIVER

■ THIS OUTFALLS WILL BE ELIMINATED BY FUTURE IMPROVEMENTS BY IBWC

■■ NEW OUTFALL STRUCTURE TO BE UTILIZED BY THE PROJECT

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING OUTFALL
- INTERSTATE 10
- LOOP 375
- W. PAISANO DR
- E. PAISANO DR
- MESA ST / DONIPHAN DR
- PROPOSED BHW ROW
- TxDOT ROW
- EXISTING BOX CULVERT
- EXISTING CMP
- EXISTING RCP
- PROPOSED RAILROAD LINES
- EXISTING RAILROAD LINES
- PARCELS

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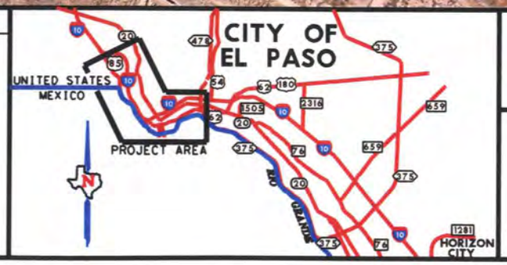
MCI FIRM TEXAS REGISTRATION NUMBER: F-000554



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Moreno Cardenas Inc. consulting engineers
TEXAS REGISTRATION # F-00054

HALFF
TBPE FIRM # 312

Loop 375 Border Highway West Extension Project

From Racetrack Drive to East of Park Street

DRAINAGE REPORT (SCHEMATIC LAYOUT)

EXISTING OUTFALLS TO RIO GRANDE RIVER

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 7
SHEET 1 OF 5

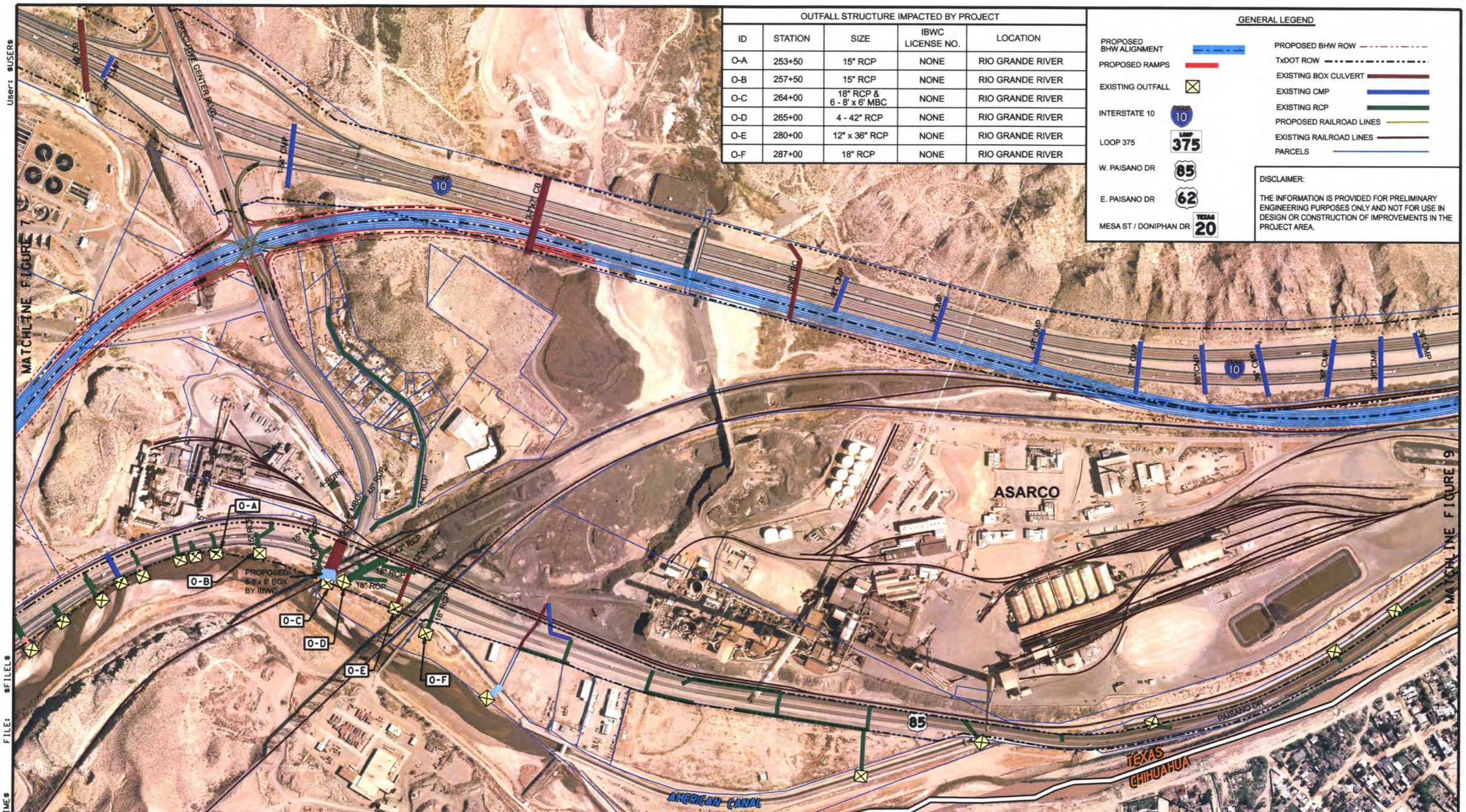
User: $USER$

FILE: $FILE$

TIME: $TIME$

DATE: $DATE$

OUTFALL STRUCTURE IMPACTED BY PROJECT				
ID	STATION	SIZE	IBWC LICENSE NO.	LOCATION
O-A	253+50	15" RCP	NONE	RIO GRANDE RIVER
O-B	257+50	15" RCP	NONE	RIO GRANDE RIVER
O-C	264+00	18" RCP & 6 - 8' x 6' MBC	NONE	RIO GRANDE RIVER
O-D	265+00	4 - 42" RCP	NONE	RIO GRANDE RIVER
O-E	280+00	12" x 36" RCP	NONE	RIO GRANDE RIVER
O-F	287+00	18" RCP	NONE	RIO GRANDE RIVER



GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING OUTFALL
- INTERSTATE 10
- LOOP 375
- W. PAISANO DR
- E. PAISANO DR
- MESA ST / DONIPHAN DR
- PROPOSED BHW ROW
- TxDOT ROW
- EXISTING BOX CULVERT
- EXISTING CMP
- EXISTING RCP
- PROPOSED RAILROAD LINES
- EXISTING RAILROAD LINES
- PARCELS

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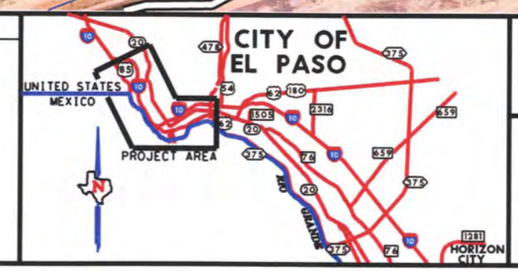

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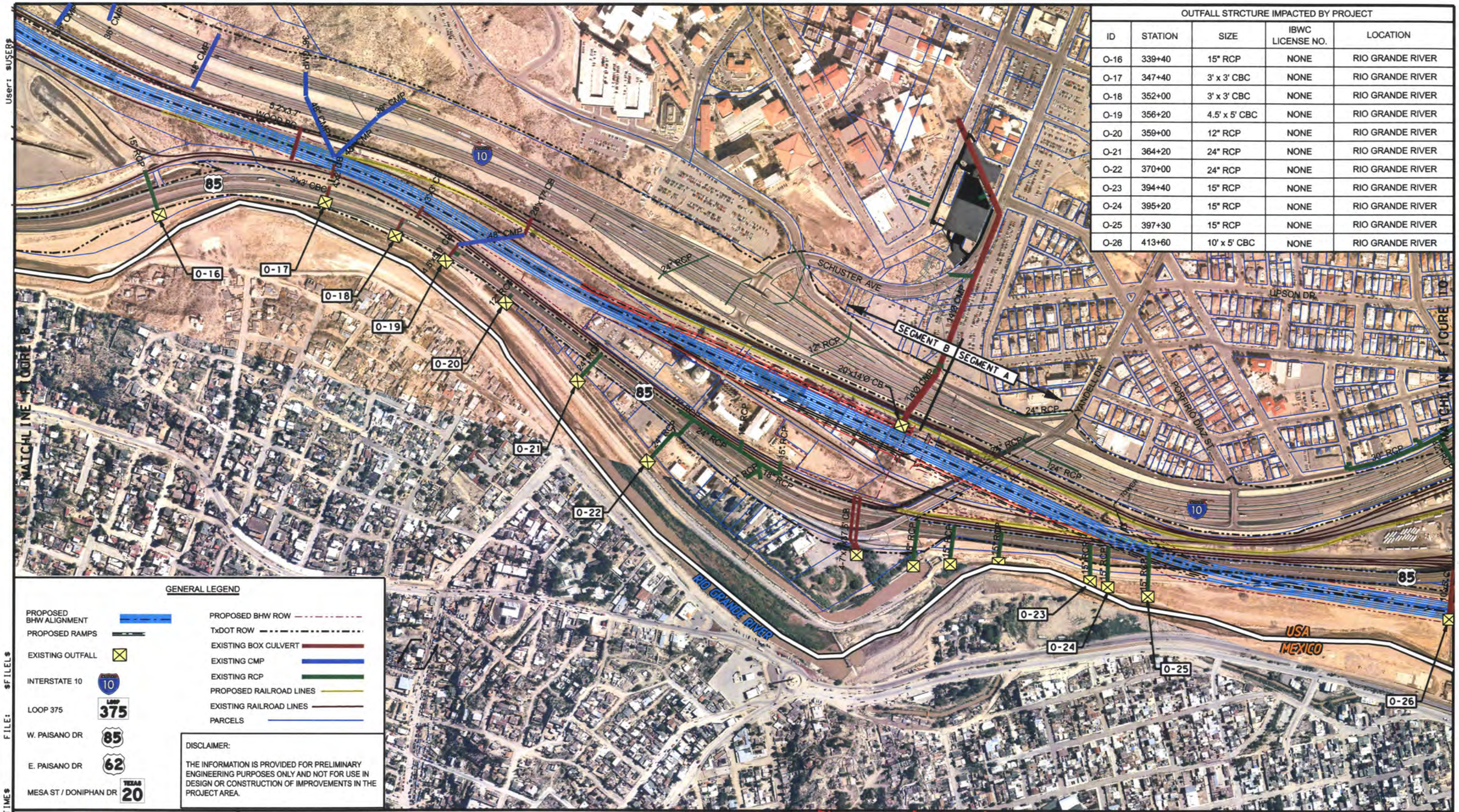
TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 8
SHEET 2 OF 5

OUTFALL STRCTURE IMPACTED BY PROJECT				
ID	STATION	SIZE	IBWC LICENSE NO.	LOCATION
O-16	339+40	15" RCP	NONE	RIO GRANDE RIVER
O-17	347+40	3' x 3' CBC	NONE	RIO GRANDE RIVER
O-18	352+00	3' x 3' CBC	NONE	RIO GRANDE RIVER
O-19	356+20	4.5' x 5' CBC	NONE	RIO GRANDE RIVER
O-20	359+00	12" RCP	NONE	RIO GRANDE RIVER
O-21	364+20	24" RCP	NONE	RIO GRANDE RIVER
O-22	370+00	24" RCP	NONE	RIO GRANDE RIVER
O-23	394+40	15" RCP	NONE	RIO GRANDE RIVER
O-24	395+20	15" RCP	NONE	RIO GRANDE RIVER
O-25	397+30	15" RCP	NONE	RIO GRANDE RIVER
O-26	413+60	10' x 5' CBC	NONE	RIO GRANDE RIVER



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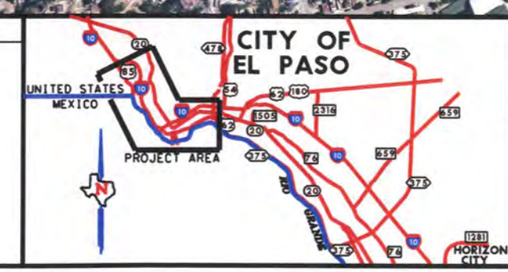

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EXISTING OUTFALLS TO RIO GRANDE RIVER

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 9
SHEET 3 OF 5

User: $USER$ FILE: $FILE$ TIME: $TIME$ DATE: $DATE$

User: $USER$

MATCH LINE FIGURE 9

PROSPECT ST
UPSON DR
10
DURANGO ST
SANTA FE ST
EL PASO ST
OREGON ST
PAISANO DR
85
STANTON ST
MESA ST
MANSAS ST
3RD ST
4TH ST
5TH ST
6TH ST
7TH ST
FLORENCE ST
OCHOA ST
VIRGINIA ST
ST VRAIN ST
AOY ELEMENTARY SCHOOL
375
AMERICAN CANAL
USA
MEXICO
MATCH LINE FIGURE 11

CHIHUAHUITA STORM SEWER STATION
STANTON ST INTERNATIONAL BRIDGE
SANTA FE INTERNATIONAL BRIDGE
RIO GRANDE RIVER
LOOP 375

O-26
**O-27
O-28
O-29
O-30
O-31
O-32

LSF/G-891 CITY OF EL PASO DRAIN CULV. 5-23-69
LSF/G-888 CITY OF EL PASO DRAIN CULV. 5-5-69

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING OUTFALL
- INTERSTATE 10
- LOOP 375
- W. PAISANO DR
- E. PAISANO DR
- MESA ST / DONIPHAN DR
- PROPOSED BHW ROW
- TxDOT ROW
- EXISTING BOX CULVERT
- EXISTING CMP
- EXISTING RCP
- PROPOSED RAILROAD LINES
- EXISTING RAILROAD LINES
- PARCELS

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OUTFALL STRUCTURE IMPACTED BY PROJECT

ID	STATION	SIZE	IBWC LICENSE NO.	LOCATION
O-26	413+60	10' x 5' CBC	NONE	RIO GRANDE RIVER
** O-27	425+70	48" RCP	NONE	RIO GRANDE RIVER
O-28	431+20	24" RCP	NONE	RIO GRANDE RIVER
O-29	445+50	36" RCP	LSF / G-891	RIO GRANDE RIVER
O-30	454+70	2- 7' x 8' CBC	LSF / G-888	RIO GRANDE RIVER
O-31	460+60	3- 36" RCP	LSF / G-888	RIO GRANDE RIVER
O-32	477+70	24" RCP	NONE	RIO GRANDE RIVER

** NEW OUTFALL STRUCTURE TO BE UTILIZED BY THE PROJECT

0 250 500 750
SCALE IN FEET

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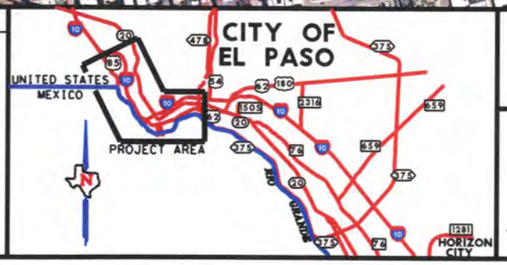

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TxDOT El Paso District
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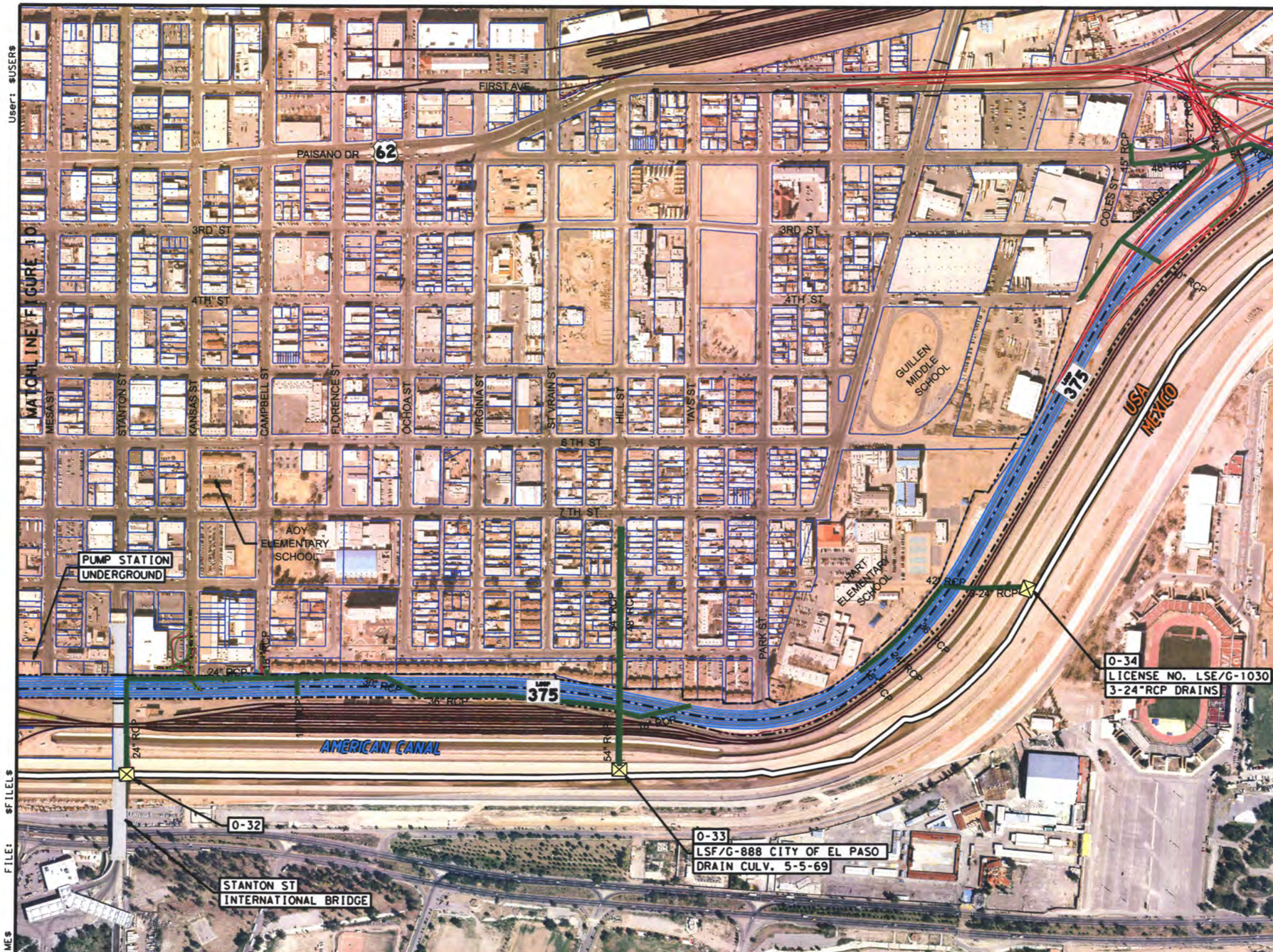
FIGURE 10
SHEET 4 OF 5

FILE: $FILE$ TIME: $TIME$ DATE: $DATE$



OUTFALL STRUCTURE IMPACTED BY PROJECT				
ID	STATION	SIZE	IBWC LICENSE NO.	LOCATION
O-32	477+70	24" RCP	NONE	RIO GRANDE RIVER
O-33	501+10	54" RCP	LSF / G-888	RIO GRANDE RIVER
O-34	520+10	3 - 24" RCP	LSF / G-1030	RIO GRANDE RIVER
O-35	545+00	54" RCP	LSF / G-888	RIO GRANDE RIVER
O-36	547+00	7' x 5' CBC	LSF / G-1006	RIO GRANDE RIVER
O-37	555+70	3 - 24" RCP	NONE	RIO GRANDE RIVER
O-38	583+30	24" RCP	NONE	RIO GRANDE RIVER

GENERAL LEGEND

- PROPOSED BHW ALIGNMENT
- PROPOSED RAMPS
- EXISTING OUTFALL
- INTERSTATE 10
- LOOP 375
- W. PAISANO DR
- E. PAISANO DR
- MESA ST / DONIPHAN DR
- PROPOSED BHW ROW
- TxDOT ROW
- EXISTING BOX CULVERT
- EXISTING CMP
- EXISTING RCP
- PROPOSED RAILROAD LINES
- EXISTING RAILROAD LINES
- PARCELS

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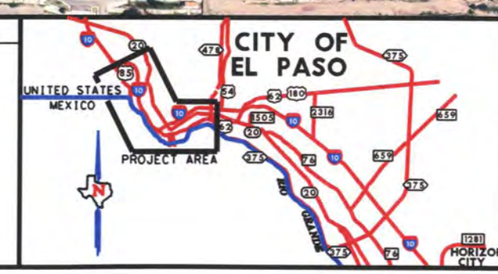

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EXISTING OUTFALLS TO RIO GRANDE RIVER

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 11
SHEET 5 OF 5

User: $USER$
FILE: $FILEL$
TIME: $TIME$
DATE: $DATE$

User: $USER$

FILE: $FILEL$

TIME: $TIME$

DATE: $DATE$

CEMEX PLANT

DA-C-1

DA-C-2

DA-C-3

C-1
2-7'x5' MBC

C-2
2-6'x4' MBC

C-3
2-4'x4' MBC

PA-B1

PA-B2

PA-B3

PA-B-4A

PA-B-4B

PA-B5

PROJECT LIMITS

DONIPHAN DRIVE

McNUTT RD

RIO GRANDE RIVER

NORTHWEST WASTE WATER TREATMENT PLANT

EXECUTIVE CENTER BLVD

MESA ST

10

85

20

0 100 200 300

SCALE IN FEET

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CITY OF EL PASO

UNITED STATES
MEXICO

PROJECT AREA

RIO GRANDE

HORIZON CITY

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TEXAS REGISTRATION # F-00054

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DRAINAGE REPORT (SCHEMATIC LAYOUT)

PROPOSED CULVERT STRUCTURES (DONIPHAN)

TxDOT El Paso District
CSJ: 2552-04-027

FIGURE 12