SOUTHERN SANDOVAL COUNTY
ARROYO FLOOD CONTROL
AUTHORITY
UPPER BOSQUE DE BERNALILLO
FLOOD MITIGATION PROJECT
DHSEM Federal Grant No.: EMT-2018-PC-0006 CFDA No.: 97.047
Funding Source: SAP 19-D2531-GF
CORONADO WATERSHED

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APPROVALS

EXECUTIVE ENGINEER: [Signature] Date: 4/21/20
TOWN OF BERNALILLO: [Signature] Date: 4/23/2020

COVER SHEET

VICTINITY MAP

PROJECT NO.: CO.JK.0003
DESIGNED BY: AES
DRAWN BY: KL
CHECKED BY: IB
DATE: N/5/2020

SHEET 1 OF 14
1. CONSTRUCT CONCRETE DROP STRUCTURE PER DETAIL 2 ON SHEET 9.
2. CONSTRUCT 14" WIDE MAINTENANCE ACCESS WITH 6" COMPACTED Base Course.
3. SAWCUT, REMOVE & Dispose EXISTING CONCRETE STRUCTURE AND Pipe Rayl.
4. FROM FACE OF EXISTING CONCRETE DROP STRUCTURE.
4. CONSTRUCT CONCRETE RETAINING WALL PER DETAIL SHEET 1.. DBW.
5. 01/14/2019 SHEET 14-14, HT35, HW SS.C 5076. 12" SURFACE FRESH METAL FRAME & 6" HIGH SIDE OF WALL FOUNDATION & 12" EMBOSSMENT TO EXISTING CONCRETE DROP STRUCTURE, STRING & TIE COORDINATE WALL Plane LOCATION & TERMINATION LOCATIONS & MUNICIPAL.
5. REMOVE EXIST. 48" TCP. FOUNDATION TO PREP PIPE JOIN (APPROX. 9 FT) & RE-CONNECT EXIST. 48" TCP. FOUNDATION TO NEW RETAINING WALL PER DETAIL SHEET 14. HT35. DBW. 01/14/2019 SHEET 14-14, HT35, HW SS.C 5076. 12" SURFACE FRESH METAL FRAME & 6" HIGH SIDE OF WALL FOUNDATION & 12" EMBOSSMENT TO EXISTING CONCRETE DROP STRUCTURE, STRING & TIE COORDINATE WALL Plane LOCATION & TERMINATION LOCATIONS & MUNICIPAL.
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7. CONSTRUCT 4" CONCRETE SLAB WITH NO REINFORCEMENT AT FINISHED GRADE. INSTALL SUBSURFACE FRESH METAL & BOLTED EXPANSION JOINT ALL SIDES.
7. FRA-N07/34.
8. CONSTRUCT 1000 LF OF 5 STRAND WIRE FENCE PER DETAIL SHEET 10. MAINTAIN 1' CLEARANCE FROM FACE OF NEW RETAINING WALL.
8. FRA-N07/34.
9. INSTALL 15 GATE PER DETAIL SHEET 10. COORDINATE GATE SWING DIRECTION WITH ENGINEER.
9. FRA-N07/34.
10. REMOVE SIZE OF EXISTING GUARDWALL PER CONSTRUCTION & REPLACE.
11. REMOVE APPROX. 27 CY DUMPED WIRE ENCLOSED PIPE.
12. INSTALL ALUMINUM GATE EACH SIDE PER APPRA O.C. 6229. SEE SHEET 8. COORDINATE WITH OWNER ON PAIL LOCATION.
TYPICAL PIPE PENETRATION INTO WALL OR CBC, 0° SKEW

NOTE: WHERE INTERSECTED BY ADJACENT WALL, OR READY MIX CONCRETE, CONCRETE WALL JOINTS MUST BE COVERED IN ADHESIVE JOINT SEALANT TO PROTECT FROM CORROSION.

PIPE PENETRATION SECTION A-A

PLAN

TYPICAL PIPE PENETRATION INTO WALL OR CBC, 45° SKEW MAX.

Dwg # 105
CASE I - LEVEL FILL

REINFORCING BAR LIST

<table>
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<tr>
<th>S1</th>
<th>S2</th>
<th>S3</th>
<th>#411</th>
<th>#412</th>
<th>#413</th>
<th>#414</th>
<th>Y</th>
<th>#415</th>
<th>T</th>
<th>MAX. TOL.</th>
<th>CONCRETE</th>
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* DENOTES THE TOTAL NUMBERS OF BARS IN CROSS SECTION.

FOR ALL #4 BAR, THE REQUIRED MIN. SPICE LENGTH SHALL BE 1'-0".

#4U BARS S3, H, V, Y, F1, T, F2, F3, D BARS

USE FOR S1 & S2 BARS

S1 BARS

S2 BARS

REINFORCING BAR DETAIL

TYPICAL WALL CROSS SECTION (FOR H = 1'-0" TO 12')

TYPICAL WALL CROSS SECTION (FOR H = 13' TO 16')

NOTE:

S2 BARS SHALL SPlice WITH S1 BARS WHEREVER THERE IS NO.

6B DAYS SHOWN IN THE TABLE ABOVE FOR H FROM 13' TO 16'.

DATE: 12/31/77

DESCRIPTION:

NEW MEXICO

DEPARTMENT OF TRANSPORTATION

STANDARD DRAWING

CANTILEVER RETAINING WALL

CASE I - LEVEL FILL

AND

REINFORCING BAR DETAILS

DESIGNED BY: SWH

DRAWN BY: OJG

CHECKED BY: RB/BM

511-80-2/5

2 of 3

SHEET 13 OF 14
**ELEVATION VIEW**

**SECTION B-B**

**EXPANSION ASSEMBLY DETAIL**

- 1" STEEL PIPE
- 3/8" x 10" PLUG END
- 6 x 1-1/2 DOWEL @ 18"

**FOOTING**

**DOWEL SLEEVE DETAIL**

**DOWEL DETAIL**

**GENERAL NOTES:**

1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 UNLESS OTHERWISE NOTED ON THE DETAILS, AND SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTMA M 111.

2. BEFORE AND AFTER THE CONCRETE OF THE WALL IS PLACED, THE CONTRACTOR SHALL ENSURE THAT THE CENTRE LINES OF ALL PURPOSE ASSEMBLIES ARE ALWAYS KEPT LEVELLED AND 8" AWAY FROM THE OUTSIDE FACE OF THE WALL, AS SHOWN IN THIS DRAWING.

3. THE MATERIAL AND INSTALLATION COST OF 1/2" ULTRA-FLEX CELL FOAM AND EXPANSION ASSEMBLIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF RETAINING WALL CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THEREFOR.

**DESIGNER:** TIMOTHY A. HARRIS

**DEPARTMENT OF TRANSPORTATION**

**CANTILEVER RETAINING WALL**
(CASE 1 - LEVEL FILL)

**EXPANSION ASSEMBLY DETAIL**

**DRAWN BY:** A. MARTIN
**CHECKED BY:** J. SHERI
**SHEET 14 OF 14**

**SHEET 14 OF 14**