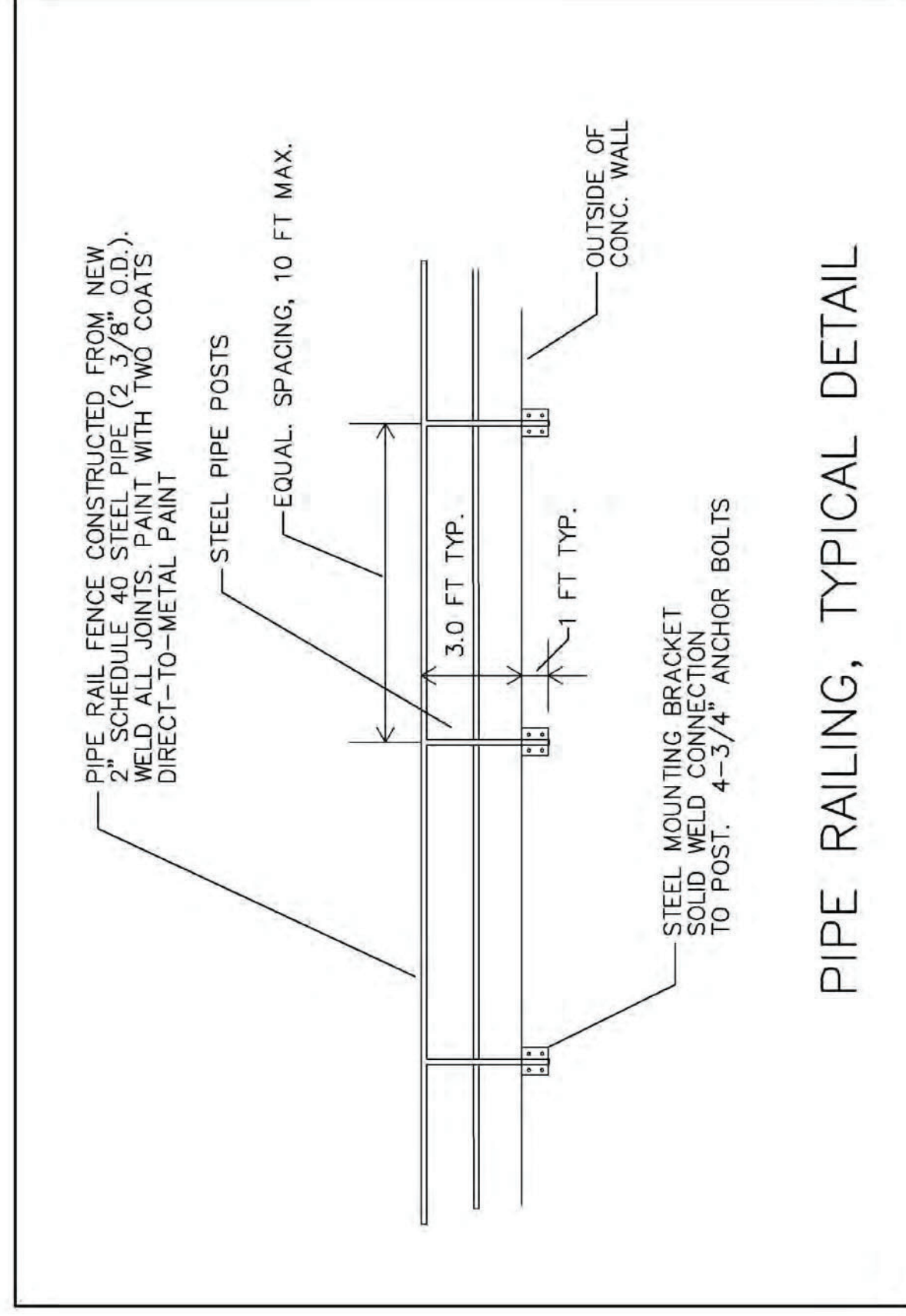
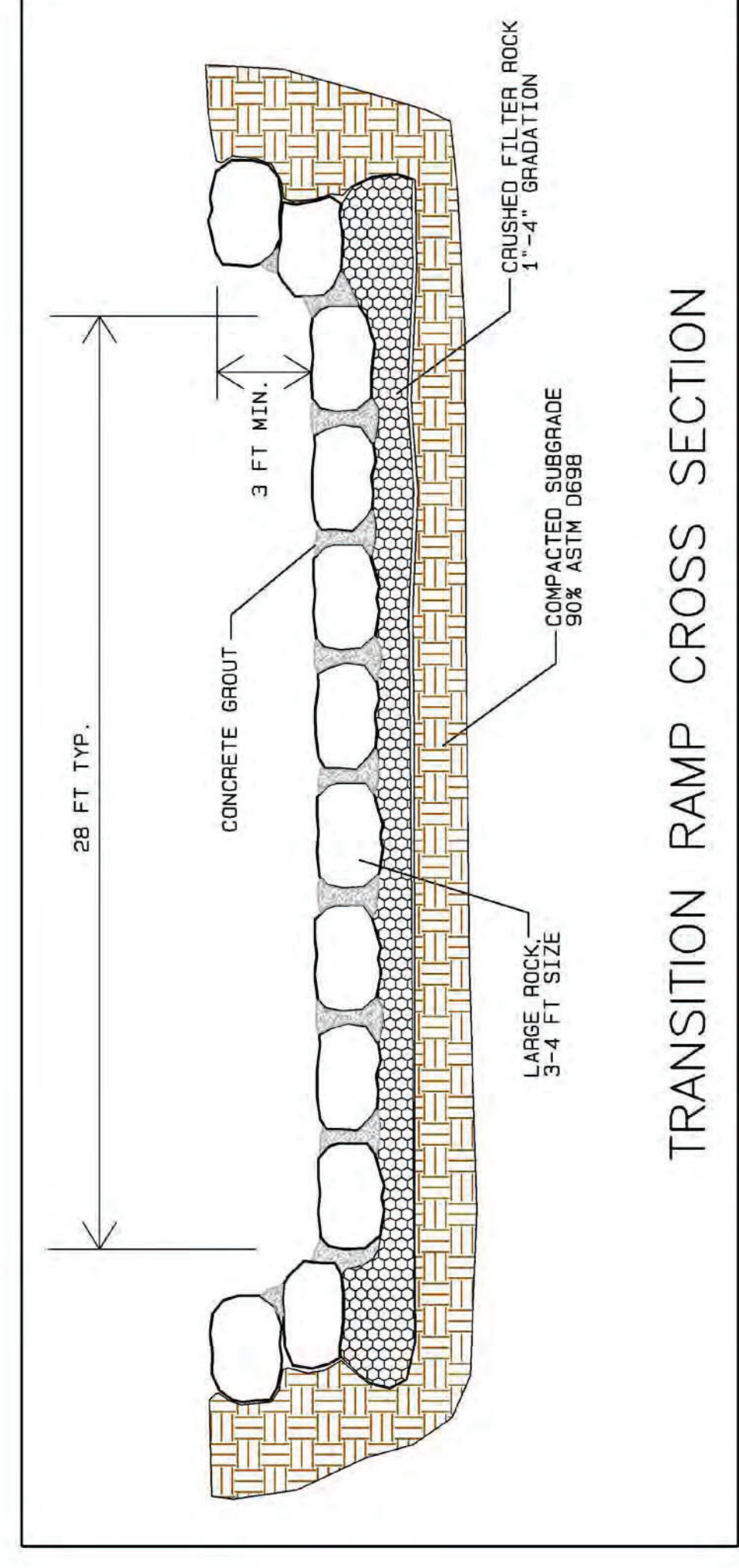


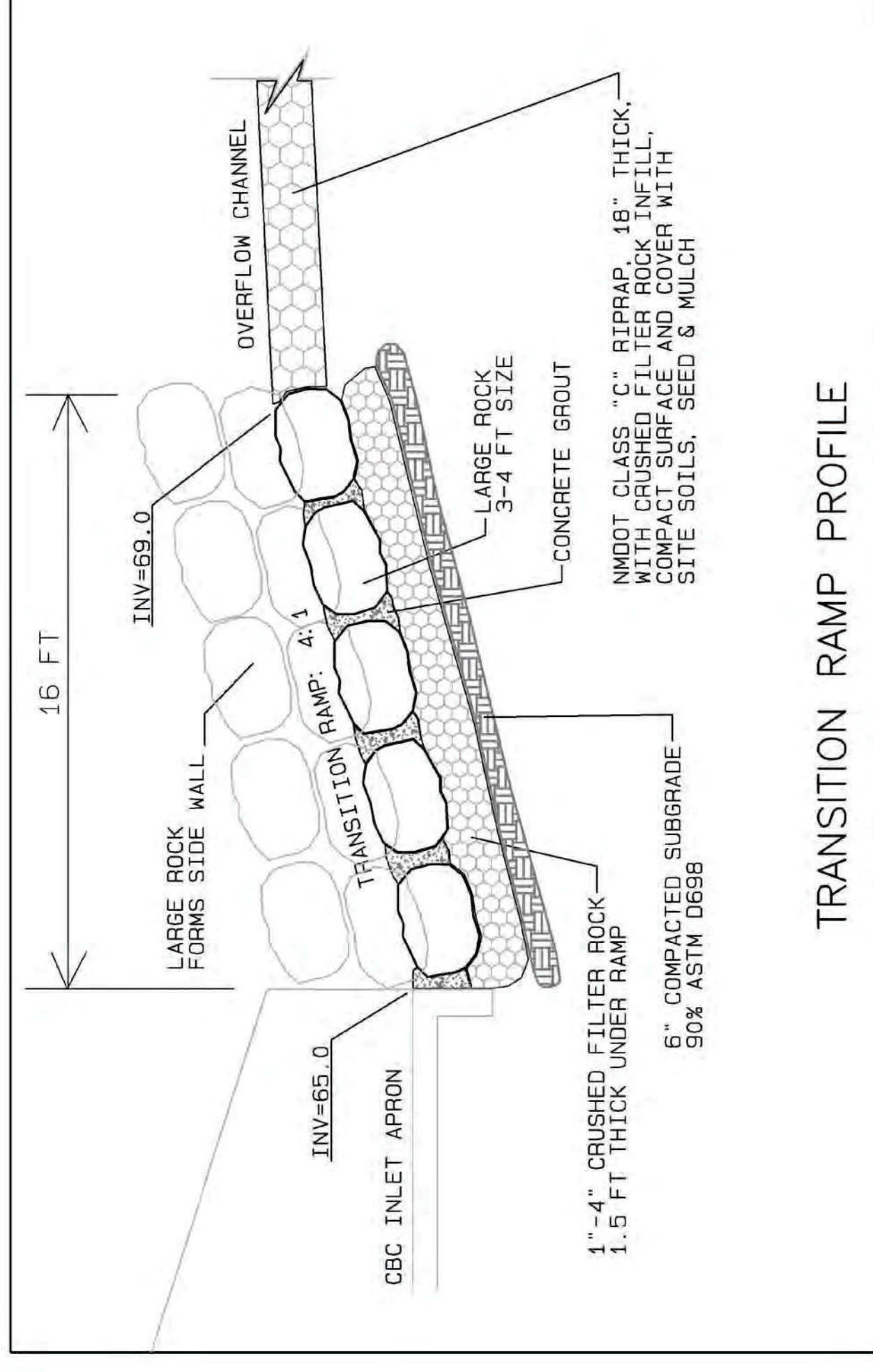
SIDE WEIR WALL TYPICAL SECTION



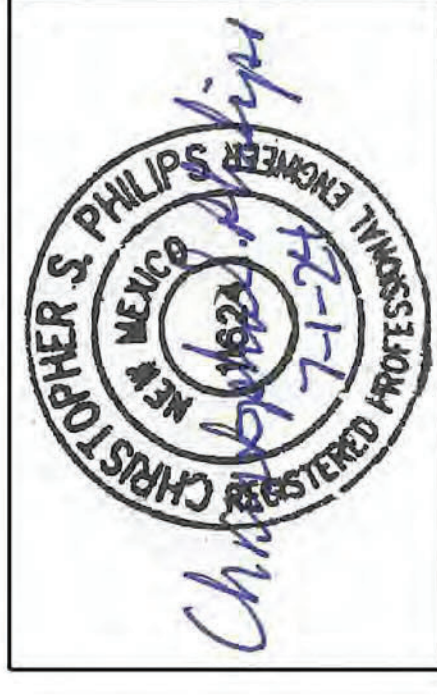
PIPE RAILING, TYPICAL DETAIL



TRANSITION RAMP CROSS SECTION

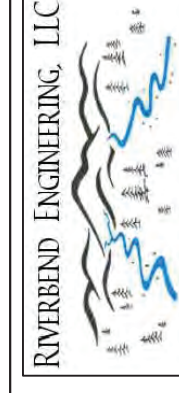


TRANSITION RAMP PROFILE



VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

NEW MEXICO



RIVEREND ENGINEERING, LLC

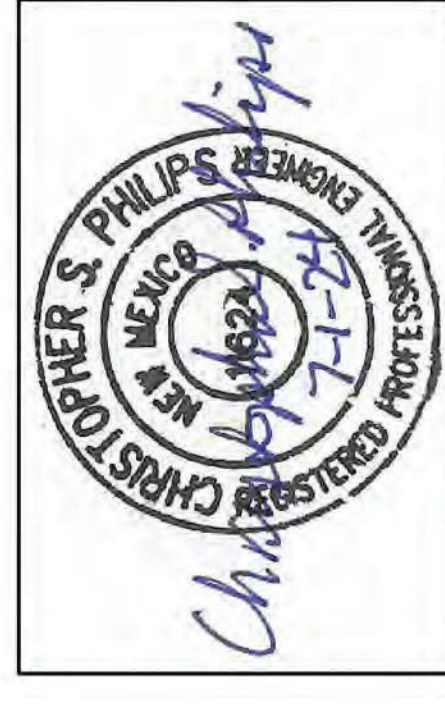
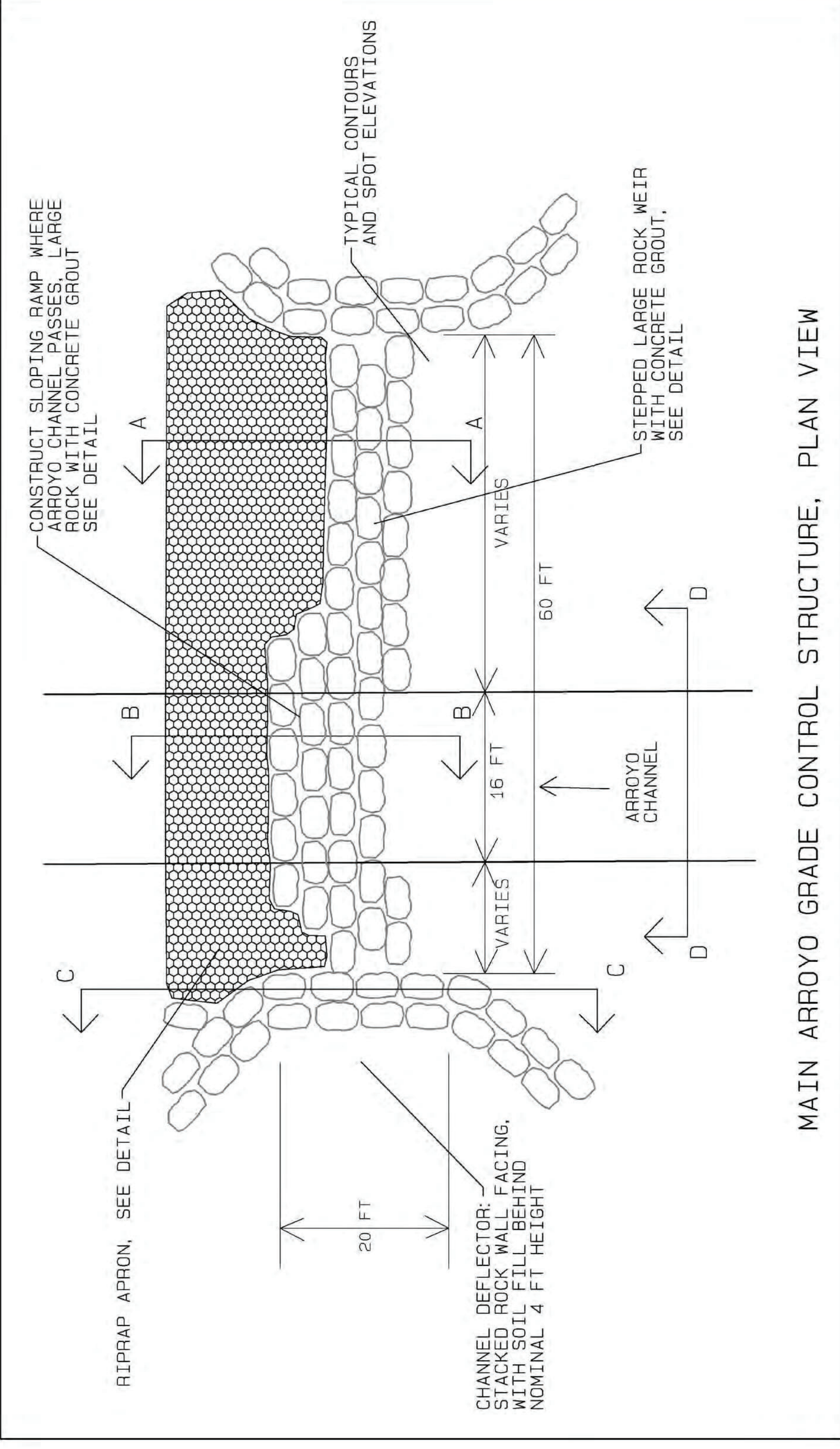
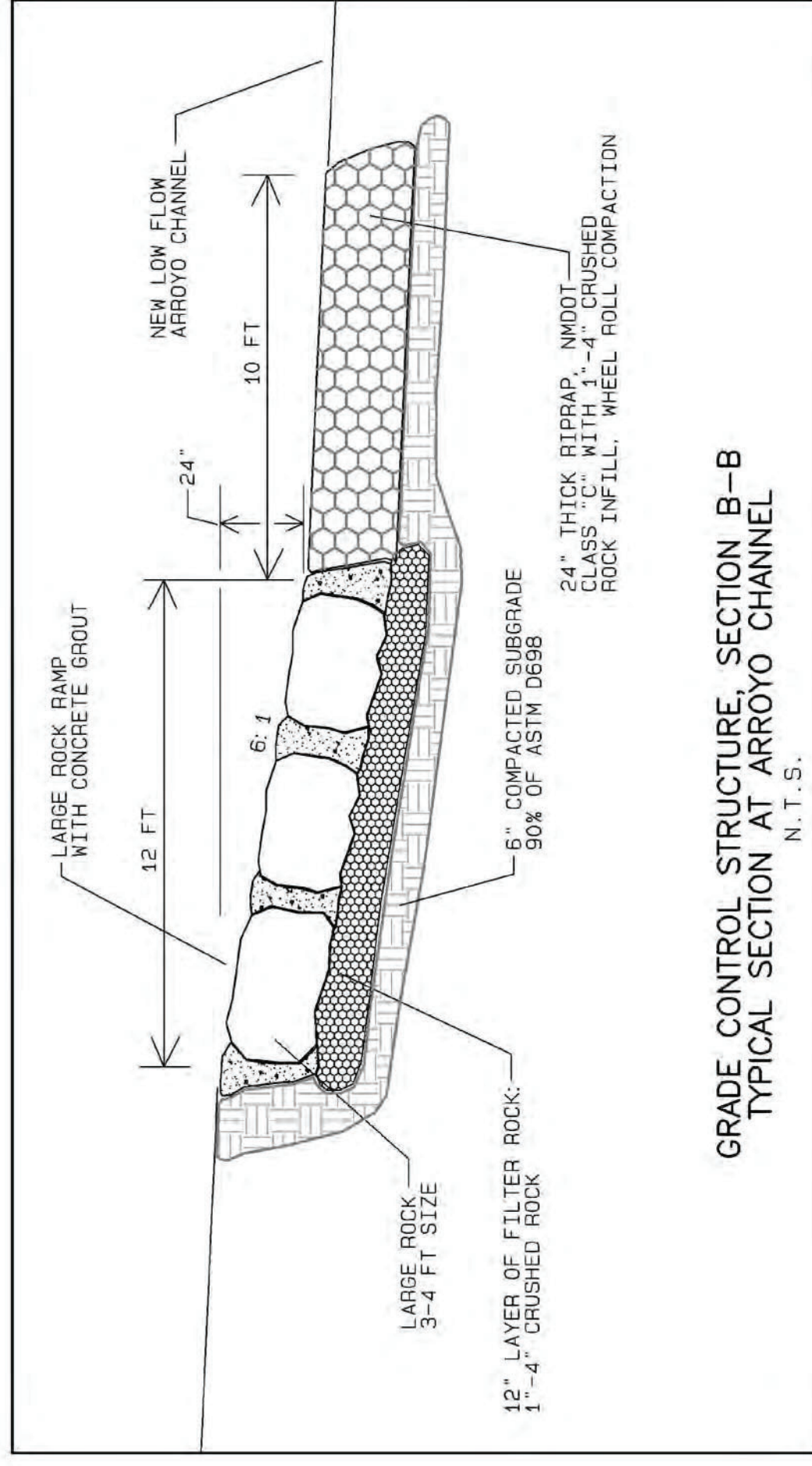
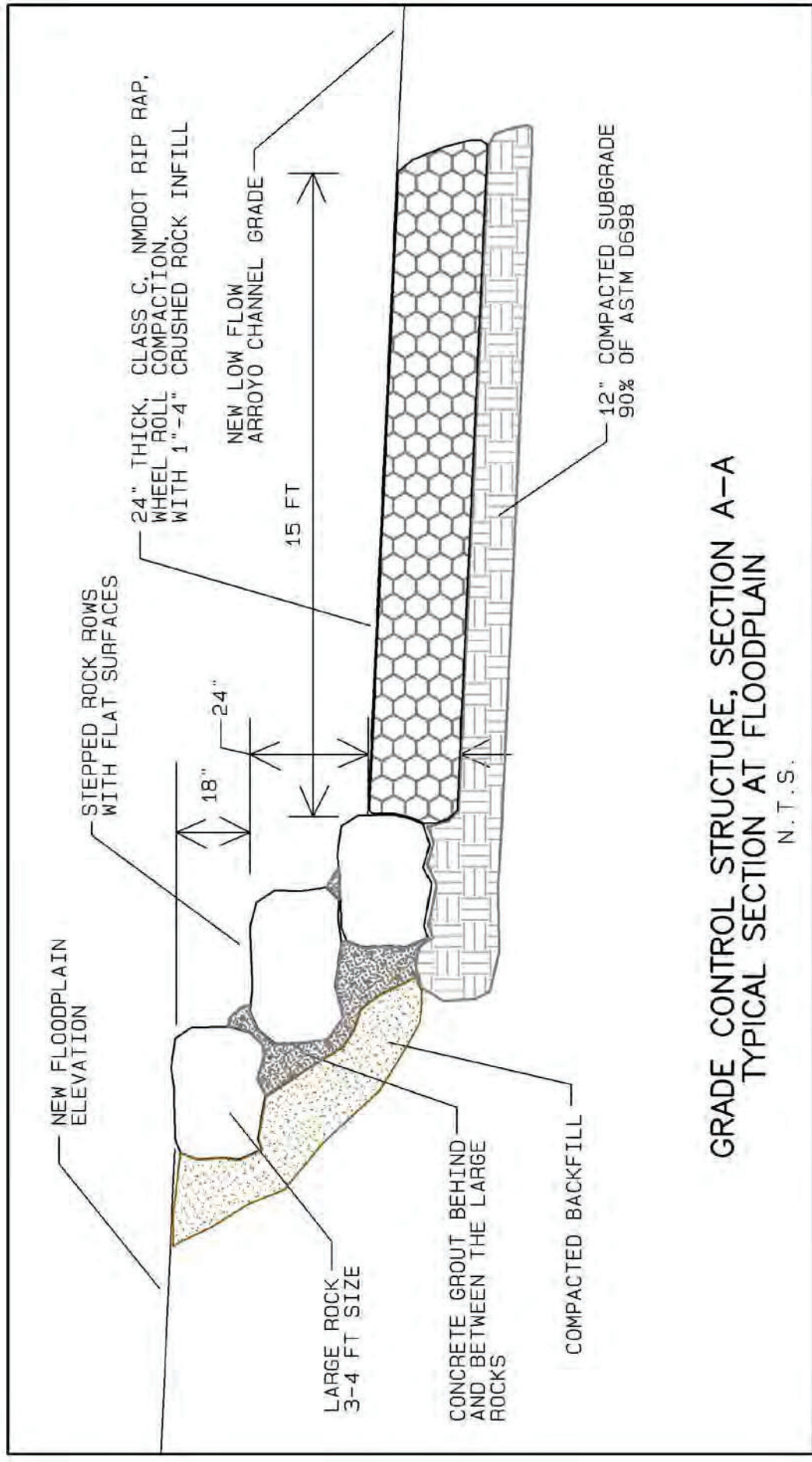
ALBUQUERQUE

NEW MEXICO

CHECKED	DATE	CLIENT APPROVALS	DATE
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DES. ENG.	10/31/24		
PROJ. ENG.	10/31/24		
PROJ. MGR.	10/31/24		
APPROVED			
APPROVED			

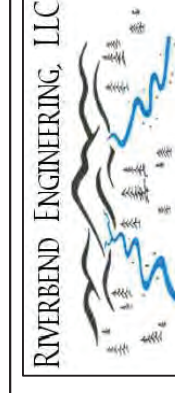
MADRID ARROYO
CAVE ROAD CROSSING DETAILS

DRAWN	DATE	REV. NO.	REV. NO.
C. PHILLIPS	----	C212	B
SCALE	W.D. NO.	SHT.	OF
	15740.001.003	60	76



VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID

NEW MEXICO



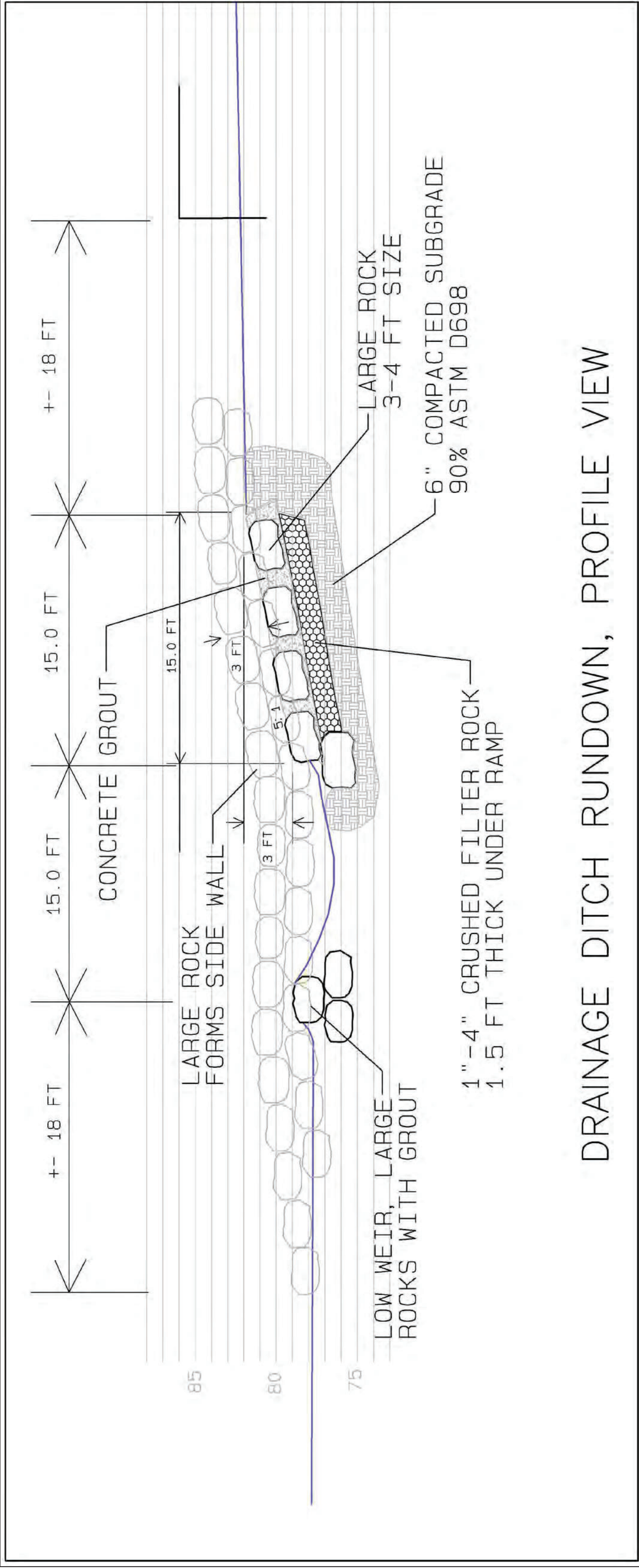
ALBUQUERQUE

CHECKED	DATE	CLIENT APPROVALS	DATE
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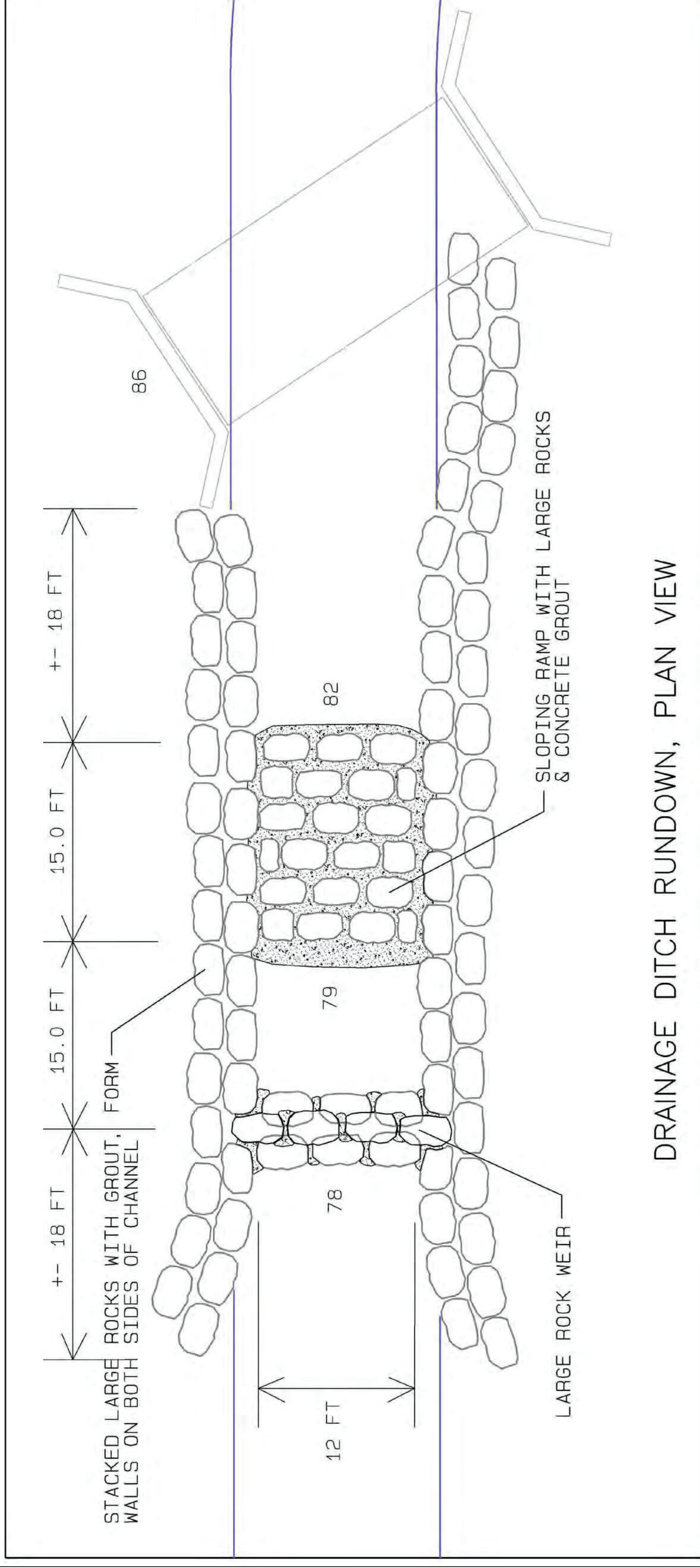
MADRID ARROYO
GRADE CONTROL STRUCTURE DETAILS

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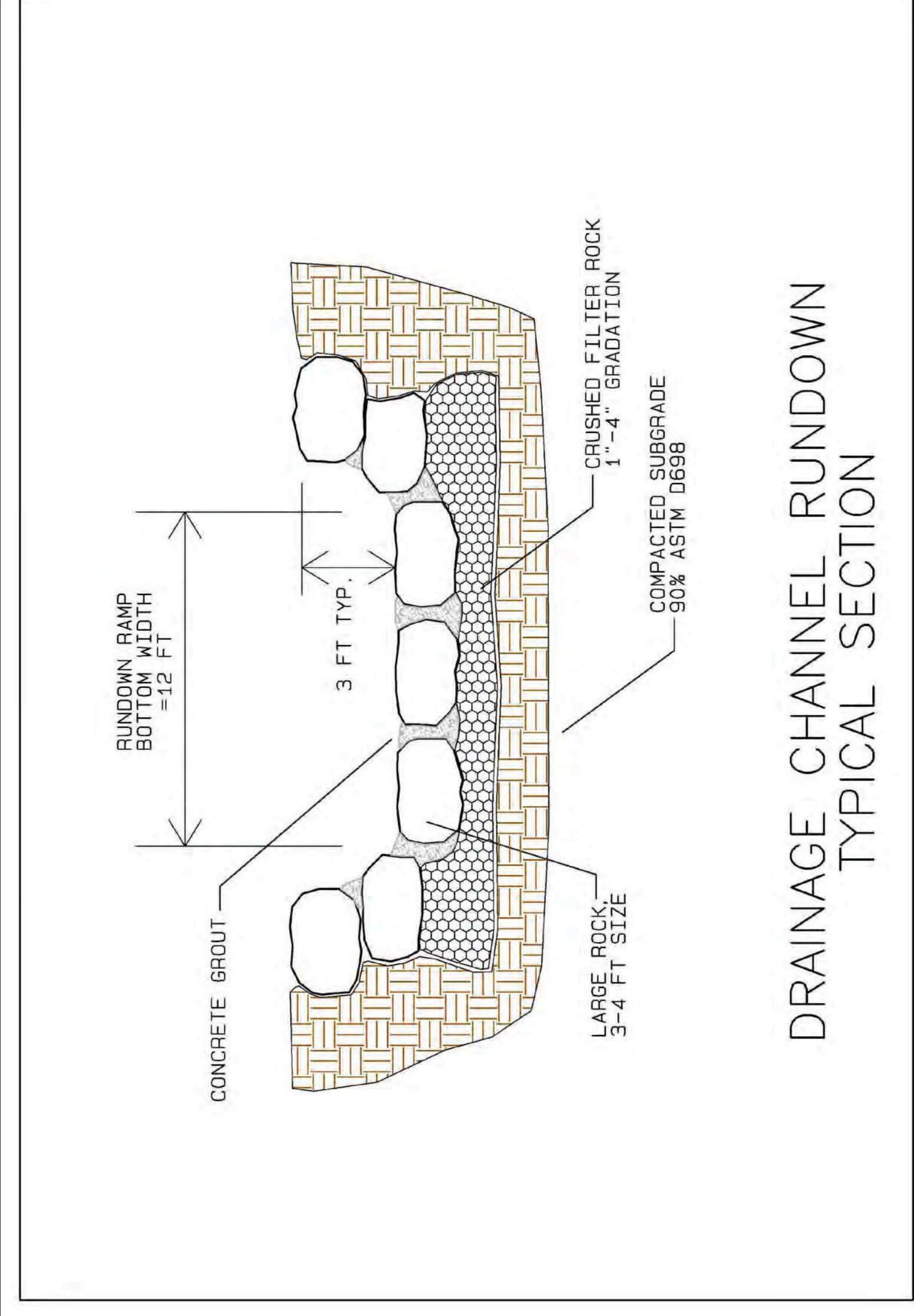
15740.001.003 SHEET



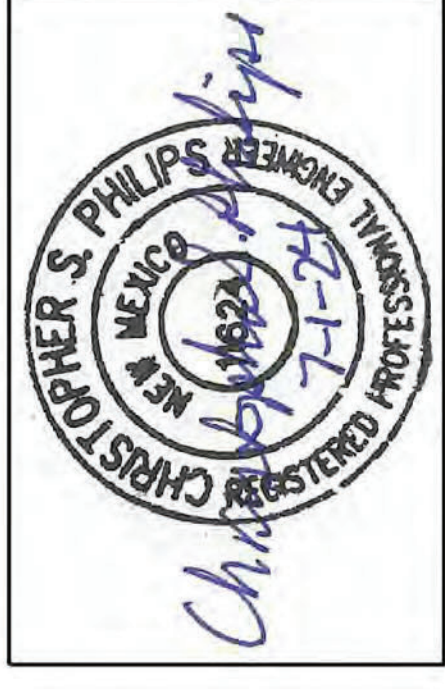
DRAINAGE DITCH RUNDOWN, PROFILE VIEW



DRAINAGE DITCH RUNDOWN, PLAN VIEW



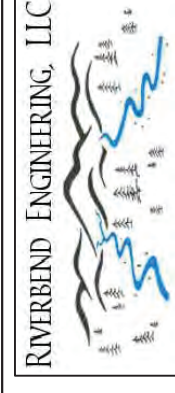
DRAINAGE CHANNEL RUNDOWN TYPICAL SECTION



VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT

NEW MEXICO

MADRID

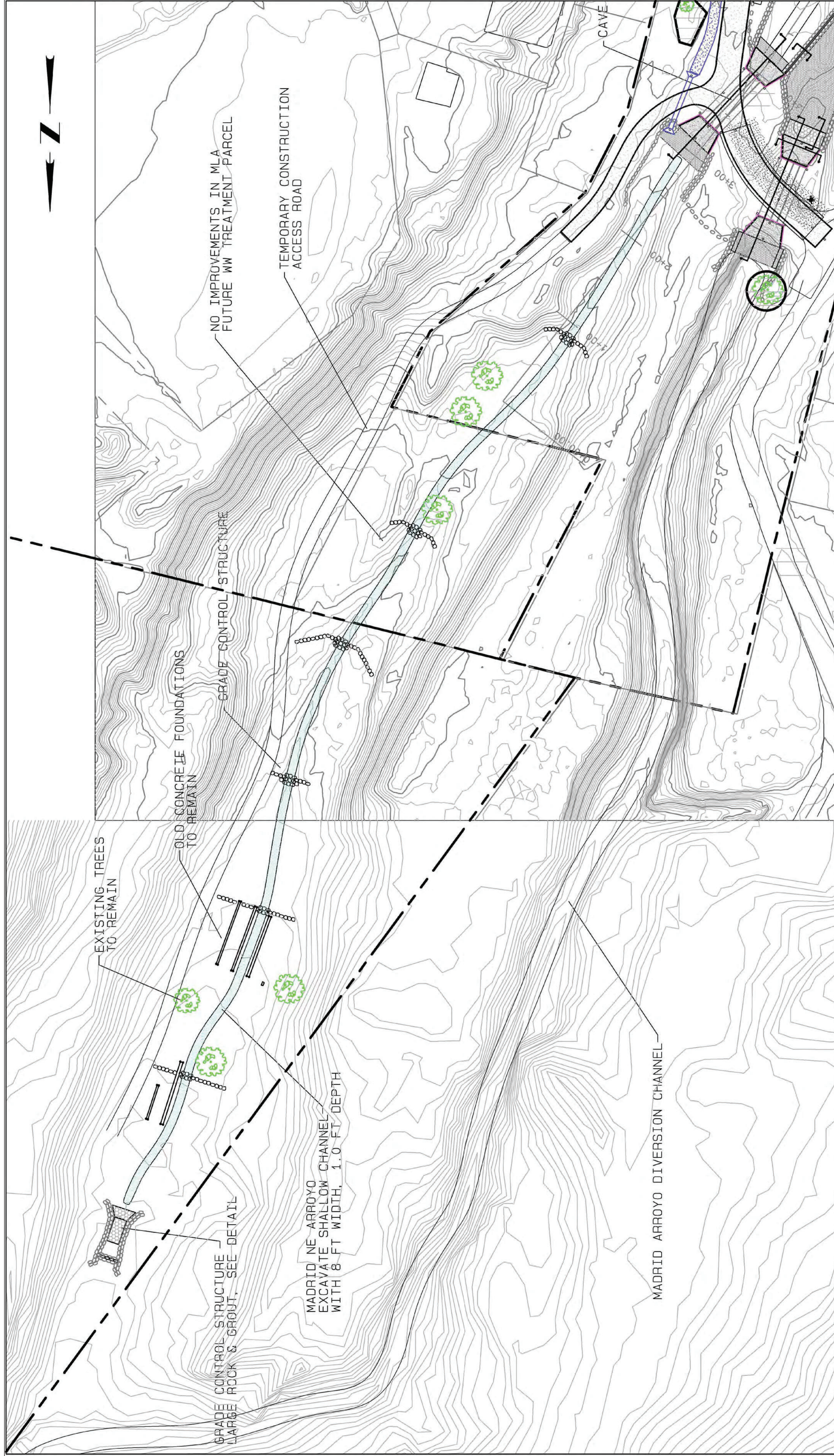


ALBUQUERQUE

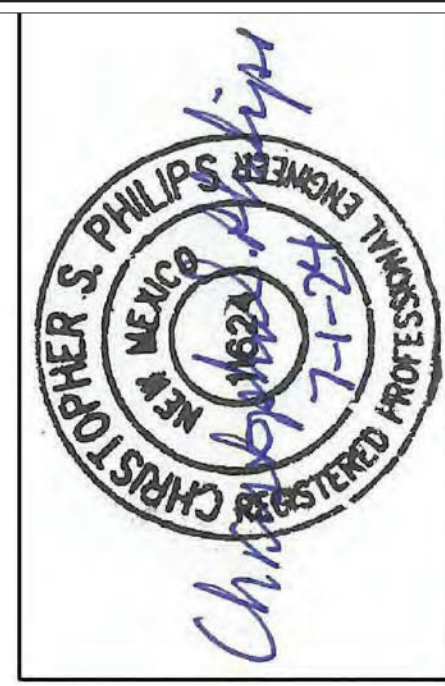
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CP	10/31/24		
DES. ENG.	10/31/24		
PROJ. ENG.	10/31/24		
PROJ. MGR.	10/31/24		
APPROVED			
APPROVED			

MADRID ARROYO
DRAINAGE DITCH RUNDOWN
PLAN, PROFILE, SECTION

DRAWN	DATE	DATE	REV. NO.
C. PHILLIPS	-----		B
SCALE	W.D. NO.	15740.001.003	63
			76



ROAD AT MADRID ARROYO



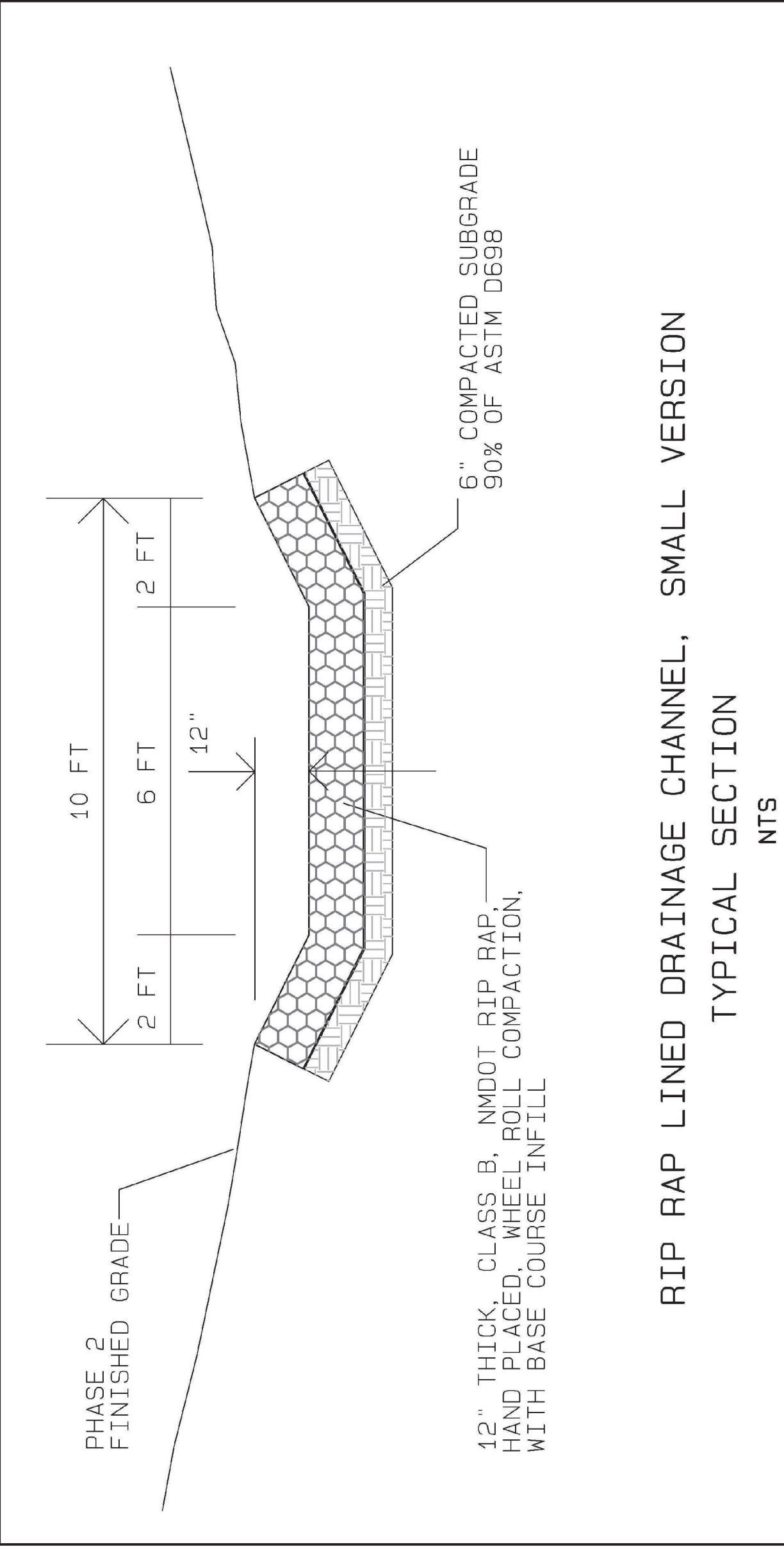
**VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT**

MADRID
NEW MEXICO
ALBUQUERQUE
RIVEREND ENGINEERING, LLC

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.	10/31/24		
PROJ. ENG.	10/31/24		
PROJ. MGR.	10/31/24		
APPROVED	10/31/24		
APPROVED			

**MADRID ARROYO
NE ARROYO IMPROVEMENTS
SITE PLAN**

DRAWN	C. PHILLIPS	DATE	----	REV. NO.	B
SCALE		W.D. NO.	15740.001.003	SHT.	67 OF 76



RIP RAP LINED DRAINAGE CHANNEL, SMALL VERSION
TYPICAL SECTION
NTS



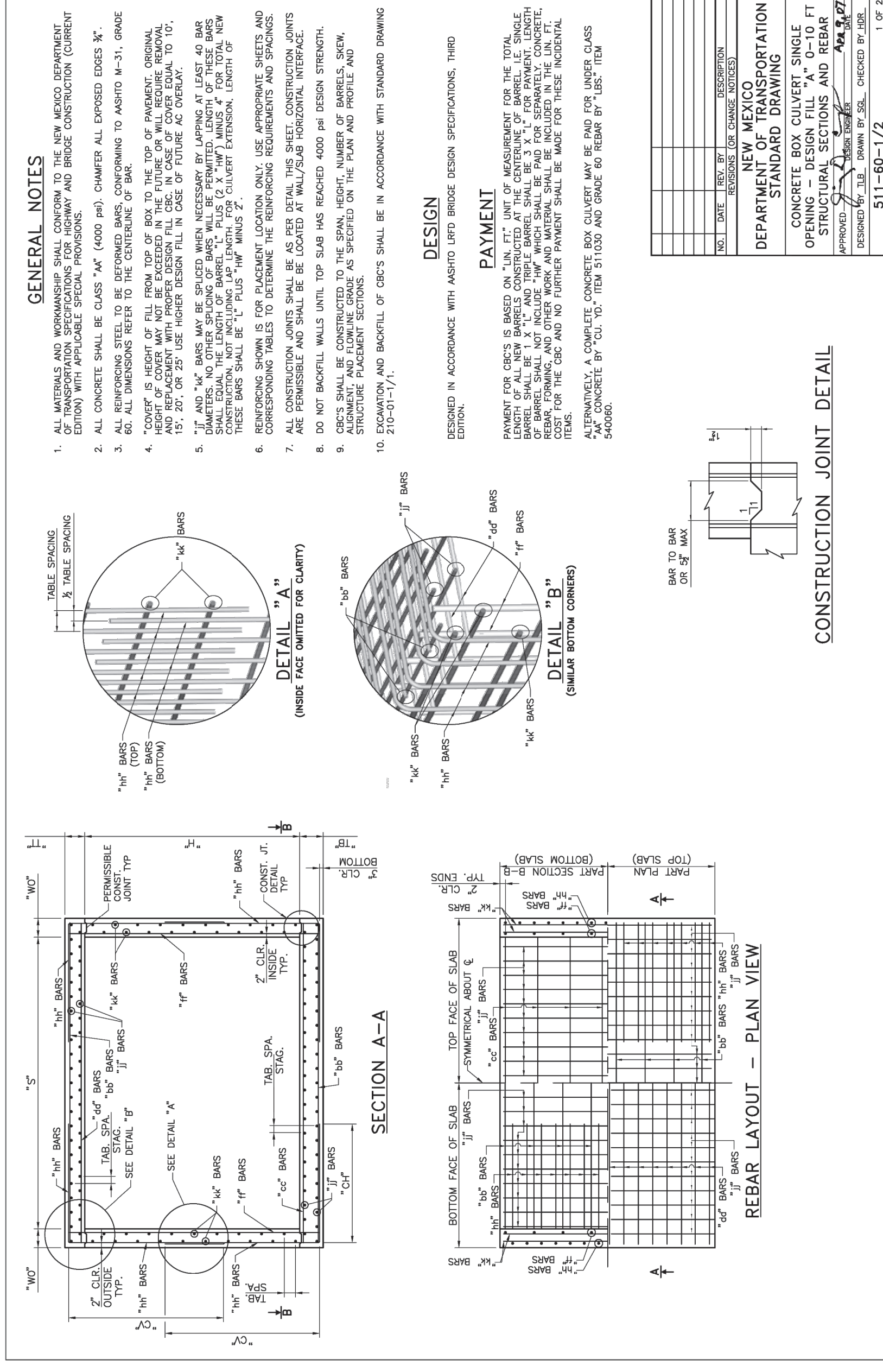
VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID
ALBUQUERQUE

NEW MEXICO
NEW MEXICO

CHECKED	DATE	CLIENT APPROVALS	DATE
DES. ENG.	10/31/24		
PROJ. ENG.	10/31/24		
PROJ. MGR.	10/31/24		
APPROVED	10/31/24		
APPROVED			

DRAWN		DATE		DWS NO.		REV NO.	
C. PHILLIPS		-----		15740.001.003		B	
SCALE		DATE		W.D. NO.		SHEET	
				15740.001.003		72 OF 76	

MADRID ARROYO
SOIL DISPOSAL AREA
CONSTRUCTION DETAILS



GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (CURRENT EDITION) WITH APPLICABLE SPECIAL PROVISIONS.
- ALL CONCRETE SHALL BE CLASS "A" (4000 PSI), CHAMFER ALL EXPOSED EDGES 3/8".
- ALL REINFORCING STEEL TO BE DEFORMED BARS, CONFORMING TO ASTM A-618, GRADE 60. ALL DIMENSIONS REFER TO THE CENTRELINE OF BARS UNLESS OTHERWISE NOTED.
- HEIGHT OF COVER MAY NOT BE EXCEEDED IN THE FUTURE OR WILL REQUIRE REMOVAL OF 200# OR 25# MET MESH UNDER DESIGN FILL IN CASE OF OUTSIDE ACCESS.
- 1/2" AND 3/4" BARS MAY BE SPICED WHEN NECESSARY BY LAPPING AT LEAST 40 BAR DIAMETERS. NO OTHER SPACING OF BARS WILL BE PERMITTED. LENGTH OF THESE BARS SHALL BE 12" PLUS 1/2" MINUS Z".
- CONSTRUCTION JOINTS SHALL BE LOCATED AT WALL/SUB HORIZONTAL INTERFACES AND CORRESPONDING TABLES TO RETAIN THE PREVIOUS REQUIREMENTS AND SPACINGS.
- ARE PERMISSIBLE AND SHALL BE LOCATED AT WALL/SUB HORIZONTAL INTERFACES.
- DO NOT BACKFILL WALLS UNTIL TOP SLAB HAS REACHED 4000 PSI DESIGN STRENGTH.
- CECS SHALL BE CONSTRUCTED TO THE SPAN HEIGHT, NUMBER OF BARRELS, SKEW, STRUCTURE PLACEMENT SECTIONS, AS SPECIFIED ON THE PLAN AND PROFILE AND DIMENSIONS.
- EXCAVATION AND BACKFILL OF CECS SHALL BE IN ACCORDANCE WITH STANDARD DRAWING 210-01-1/1.

DESIGN
DESIGNED IN ACCORDANCE WITH ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THIRD EDITION.

PAYMENT
PAYMENT FOR CECS IS BASED ON 1.14 FT³ UNIT OF MEASUREMENT FOR THE TOTAL LENGTH OF ALL NEW BARRELS CONSTRUCTED AT THE CENTRELINE OF BARREL. SINGLE, DOUBLE OR BARREL SHALL NOT INCLUDE THE WHICH SHALL BE PAID FOR SEPARATELY. CONCRETE, REBAR AND FORMWORK SHALL BE PAID FOR SEPARATELY. COST FOR THE CECS AND NO FURTHER PAYMENT SHALL BE MADE FOR THESE INCIDENTAL ITEMS.

ALTERNATIVE: A COMPLETE CONCRETE BOX CULVERT MAY BE BUILT FOR LARGER CLASSES AND SPACINGS OF 6' TO 10'. THIS IS ALLOWED AND GRADE AS INDICATED BY THE PLAN AND PROFILE.

SINGLE OPENING BOX CULVERT STRUCTURE DIMENSIONS																
DIM	DESIGN FILL "A"				DESIGN FILL "B"				DESIGN FILL "C"				DESIGN FILL "D"			
	SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T" INSIDE	BOTTOM SLAB "B" INSIDE	SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T" INSIDE	BOTTOM SLAB "B" INSIDE	SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T" INSIDE	BOTTOM SLAB "B" INSIDE	SPAN "S" INSIDE	HEIGHT "H" INSIDE	TOP SLAB "T" INSIDE	BOTTOM SLAB "B" INSIDE
10' 7"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
10' 8"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
10' 9"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
10' 10"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
10' 11"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
10' 12"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 0"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 1"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 2"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 3"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 4"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 5"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 6"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 7"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 8"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 9"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 10"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
11' 11"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 0"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 1"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 2"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 3"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 4"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 5"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 6"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 7"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 8"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 9"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 10"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
12' 11"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 0"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 1"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 2"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 3"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 4"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 5"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 6"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 7"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 8"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 9"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 10"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
13' 11"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 0"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 1"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 2"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 3"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 4"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 5"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 6"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 7"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 8"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 9"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 10"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 11"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 12"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 13"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'
14' 14"	9.0'	9.5'	9.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'	7.5'

CONSTRUCTION JOINT DETAIL

BAR TO BAR OR 2" MAX

EXAMPLE OF USE OF THIS TABLE:
USE THE FOLLOWING BUILD INFORMATION FROM THE TABLE ABOVE:

10' 7" 9.0' 9.5' 9.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5' 7.5'

NO.	DATE	REV. BY	DESCRIPTION	REVISIONS (OR CHANGE ORDERS)			
				NO.	DATE	REV. BY	DESCRIPTION

DESIGNED BY: T.L.B. DRAWN BY: S.S.L. CHECKED BY: J.S.E.
511-60-1/2 2 OF 2

DEPARTMENT OF TRANSPORTATION
CONCRETE BOX CULVERT SINGLE OPENING - DESIGN FILL "A" 0-10 FT STRUCTURAL SECTIONS AND REBAR
APPROVED: [Signature] DATE: 10/31/24
DESIGNED BY: T.L.B. DRAWN BY: S.S.L. CHECKED BY: J.S.E.
511-60-1/2 1 OF 2

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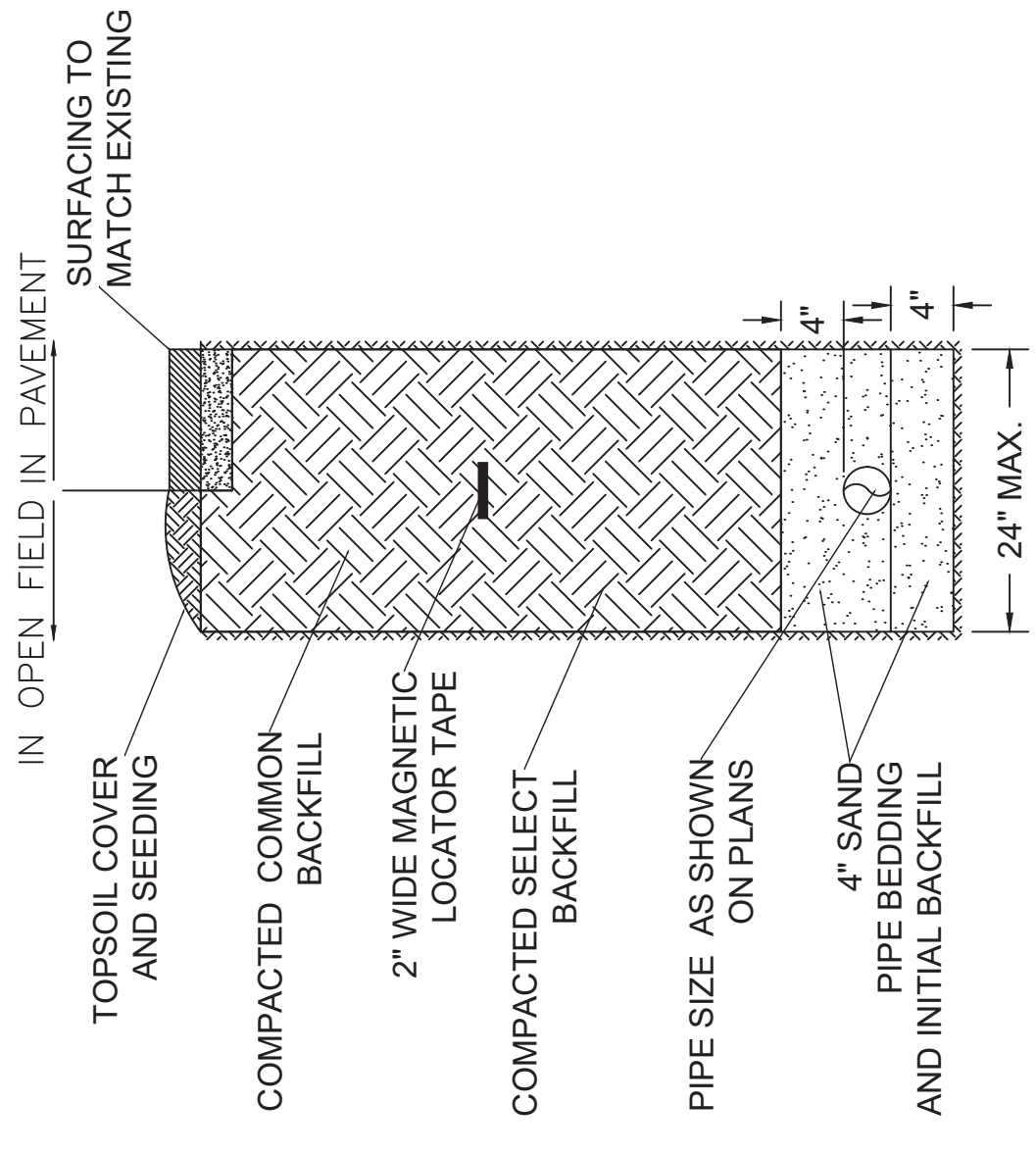
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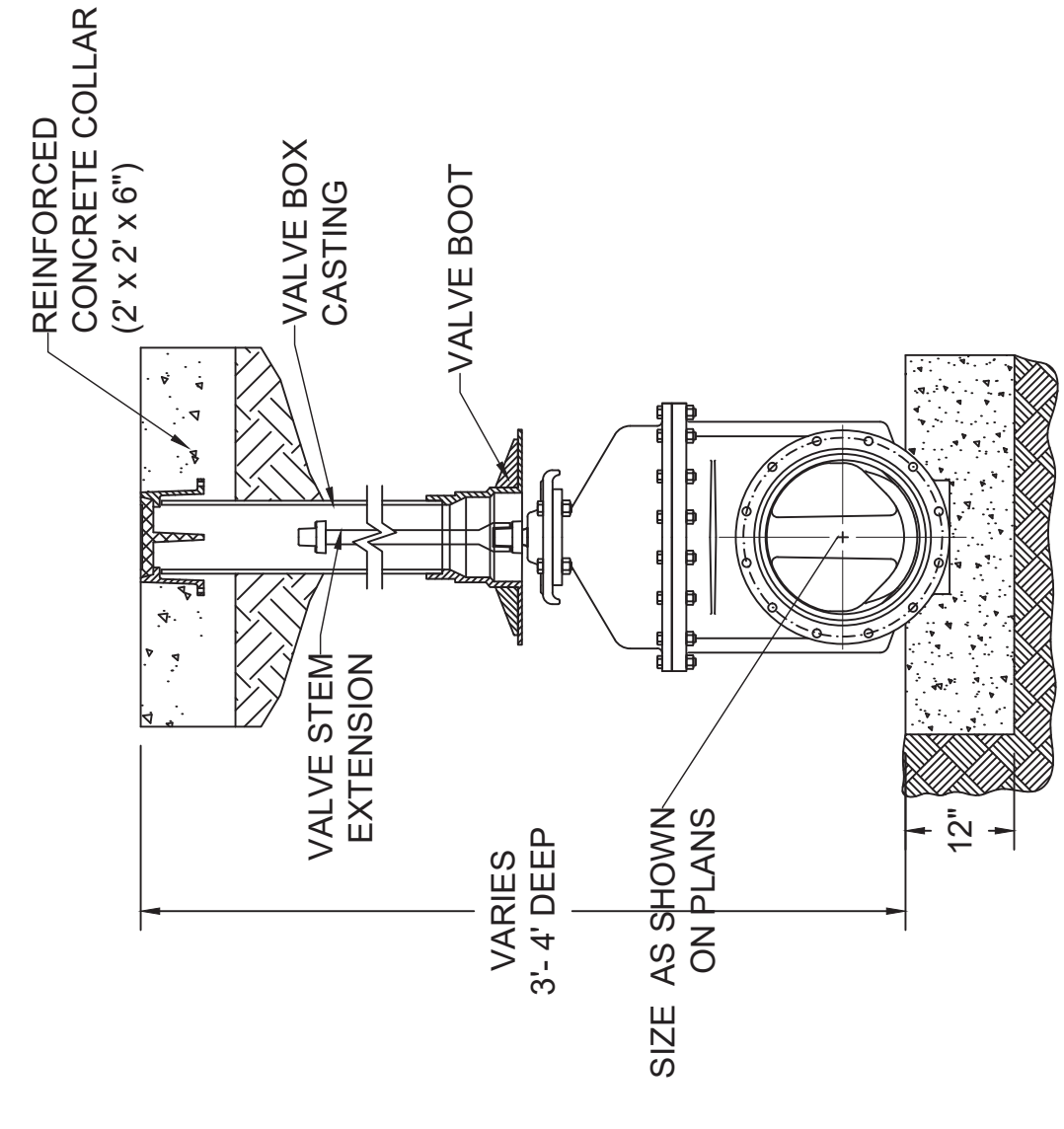
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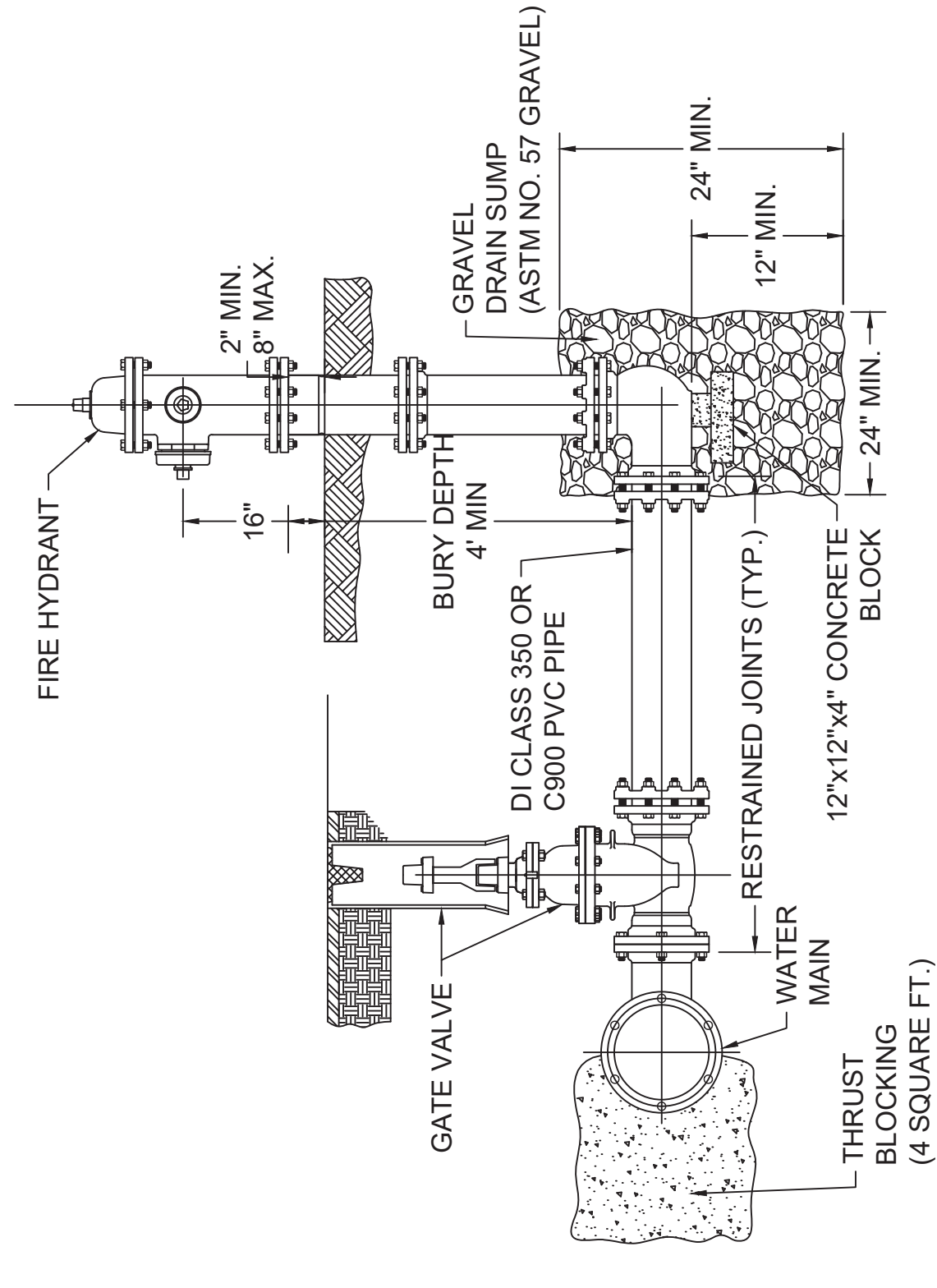
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511-60-1/2 2 OF 2



1 WATER CONVEYANCE PIPE TRENCH
TYPICAL SECTION (N.T.S.)



2 BURIED GATE VALVE DETAIL
DETAIL (N.T.S.)



3 FIRE HYDRANT REPLACEMENT DETAIL
DETAIL (N.T.S.)

NO.	DATE	APPR.	REVISION
A	5/10/24		100% DRAFT- ISSUED FOR REVIEW

NO.	DATE	APPR.	REVISION

VILLAGE OF MADRID, NM
STORM WATER & EROSION CONTROL PROJECT
MADRID
NEW MEXICO
ALBUQUERQUE
NEW MEXICO



CHECKED	DATE	CLIENT APPROVALS	DATE
NAH	10/31/24		
DES. ENG.	10/31/24		
PROJ. ENG.	10/31/24		
PROJ. MGR.	10/31/24		
APPROVED			
APPROVED			



STANDARD DRAWINGS
(4 OF 4)

DRAWN	DATE	DWG. NO.	REV. NO.
RW	----	----	B
SCALE	W.D. NO.	SHT.	OF
	15740.001.003	76	76