

ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTAL	
			EST. QTY	FINAL
1	MOBILIZATION	LS	1	
2	CLEARING & GRUBBING	LS	1	
3	PROJECT REMOVALS	LS	1	
4	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)	LS	1	
5	TRAFFIC CONTROL MANAGEMENT	LS	1	
6	CONSTRUCTION STAKING AND SURVEYING	LS	1	
7	UTILITY ALLOWANCE	AL	1	
8	DIVERSION & CARE OF STORM WATER	AL	1	
9	UNCLASSIFIED EXCAVATION	CY	35,000	
10	ENGINEERED FILL	CY	4,200	
11	4" HMA SP-IV COMPLETE (includes subgrade prep, base course and prime coat, CIP)	SY	390	
12	STANDARD CURB & GUTTER - TYPE II	LF	20	
13	CONCRETE SIDEWALK 4" THICK	SY	20	
14	MANHOLE, 8-FOOT DIAMETER	EA	7	
15	48" ULTRAFLO STORM DRAIN PIPE INCL. TRENCHING	LF	662	
16	54" ULTRAFLO STORM DRAIN PIPE INCL. TRENCHING	LF	1110	
17	60" ULTRAFLO STORM DRAIN PIPE INCL. TRENCHING	LF	1104	
18	60" CULVERT HEADWALL	EA	1	
19	NOT USED	EA	0	
20	1" THICK WIRE ENCLOSED RIP RAP	CY	81	
21	6' X 6' JUNCTION BOX, PRECAST CONCRETE STRUCTURES	EA	1	
22	CHANNEL OUTLET (Bleeder Pipe with Flap Gate, and Concrete WEIR)	LS	1	
23	GRIGGS CONCRETE INTAKE RISER, INC. FOUNDATION, SOIL CEMENT SLAB, COMPLETE	LS	1	
24	30" x 30" CONCRETE BOX CULVERT INCL. EXCAVATION AND BACKFILL	LF	152	
25	GRIGGS EMERGENCY SPILLWAY 6" THICK REINFORCED CONCRETE, INCLUDING CUTOFF WALL, CIP	CY	200	
26	REMOVE AND REPLACE EXISTING ASPHALT PER CITY OF ALAMOGORDO PAVEMENT PATCH DETAIL	SY	1206	

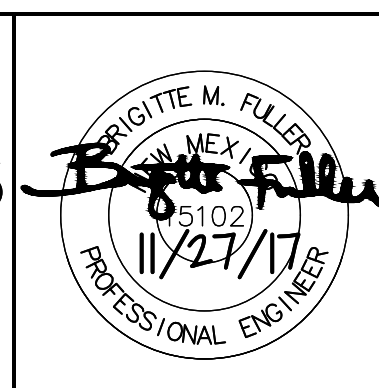
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△	05/21/18	SUMMARY OF QUANTITIES UPDATE	BMF

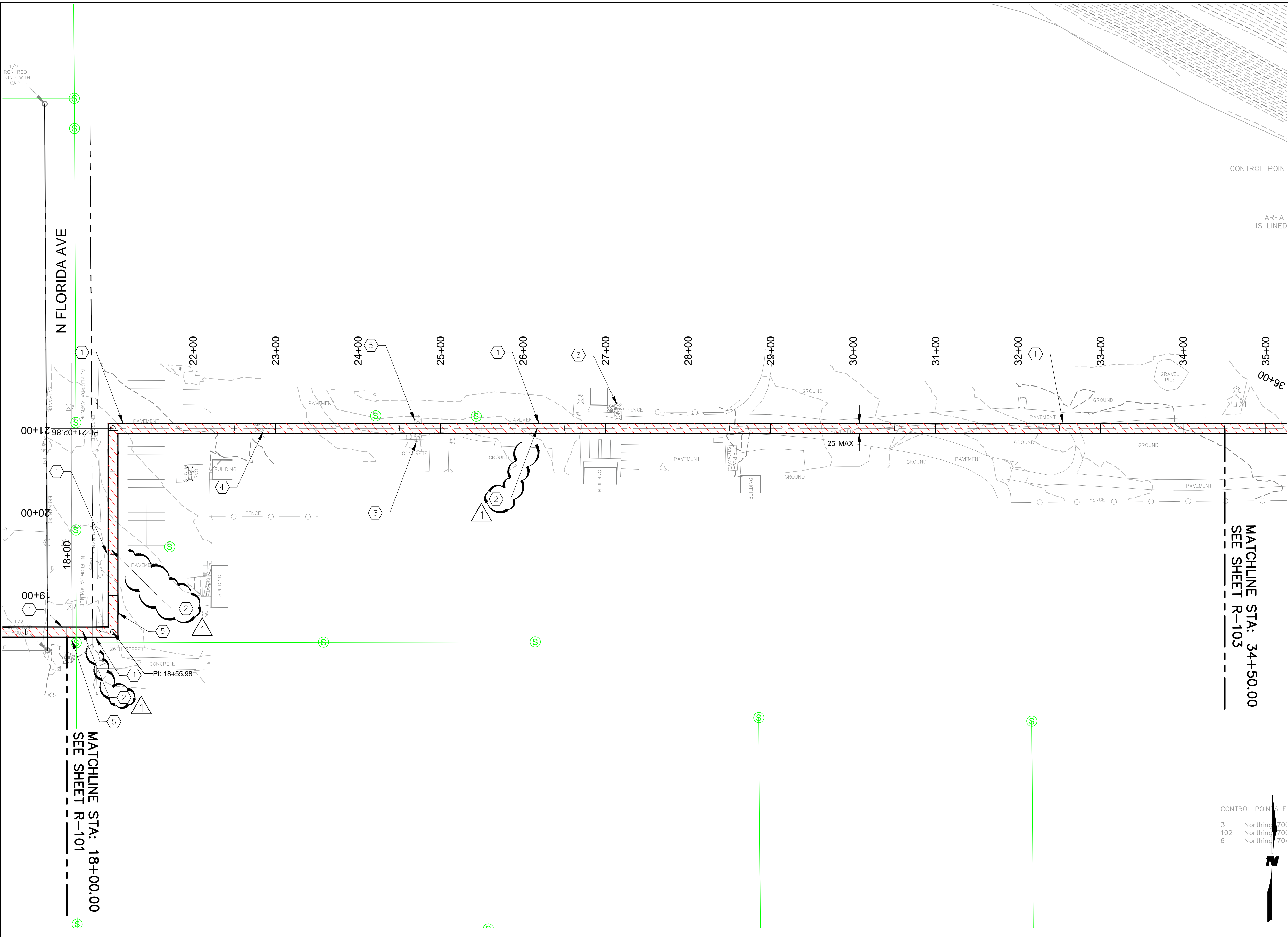
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**GRIGGS RESERVOIR OUTFALL STRUCTURE
MODIFICATIONS AND STORM DRAIN IMPROVEMENTS
SUMMARY OF QUANTITIES**
CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



Public Works Bid No.: 2018-003	Sheet No.: Q1.0
Drawn By: MTR Designed By: EEV	
Checked By: BMF Approved By:	
Scale: Horiz.: Vert.:	Sheet 5 of 37



- ### KEYNOTES
1. SAWCUT NEAT LINE.
 2. REMOVE AND REPLACE PAVEMENT SECTION. SEE SHEET D1.6 FOR TYPICAL PAVEMENT PATCH DETAIL.
 3. PROTECT EXISTING FIRE HYDRANT.
 4. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALAMOGORDO PUBLIC WORKS SERVICE YARD ON REMOVAL OF OBSTRUCTIONS WITHIN IMPROVEMENT AREA.
 5. CONTRACTOR TO VERIFY ALL UTILITY CROSSING DEPTHS.
 6. PROTECT EXISTING TREE.

GENERAL NOTES

- ### LEGEND
- APPROXIMATE REMOVAL / GRADING LIMITS
 - FIRE HYDRANT
 - WATER VALVE
 - MANHOLE
 - SEWER LINE
 - WATER LINE

CONTROL POINTS F
 3 Northing 701
 102 Northing 701
 6 Northing 701

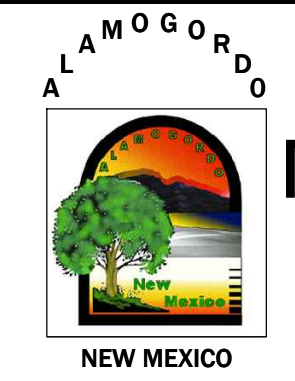
MATCHLINE STA: 34+50.00
 SEE SHEET R-103

MATCHLINE STA: 18+00.00
 SEE SHEET R-101

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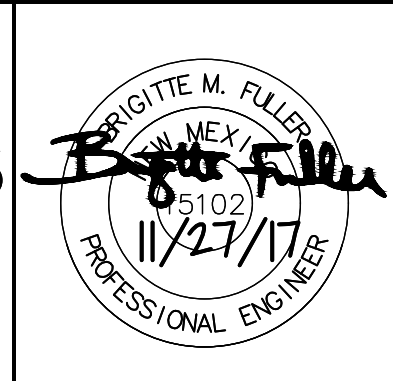
REV. No.	DATE	DESCRIPTION	APPROVED
1	05/21/18	KEYNOTE CALLOUT REVISION	BMF

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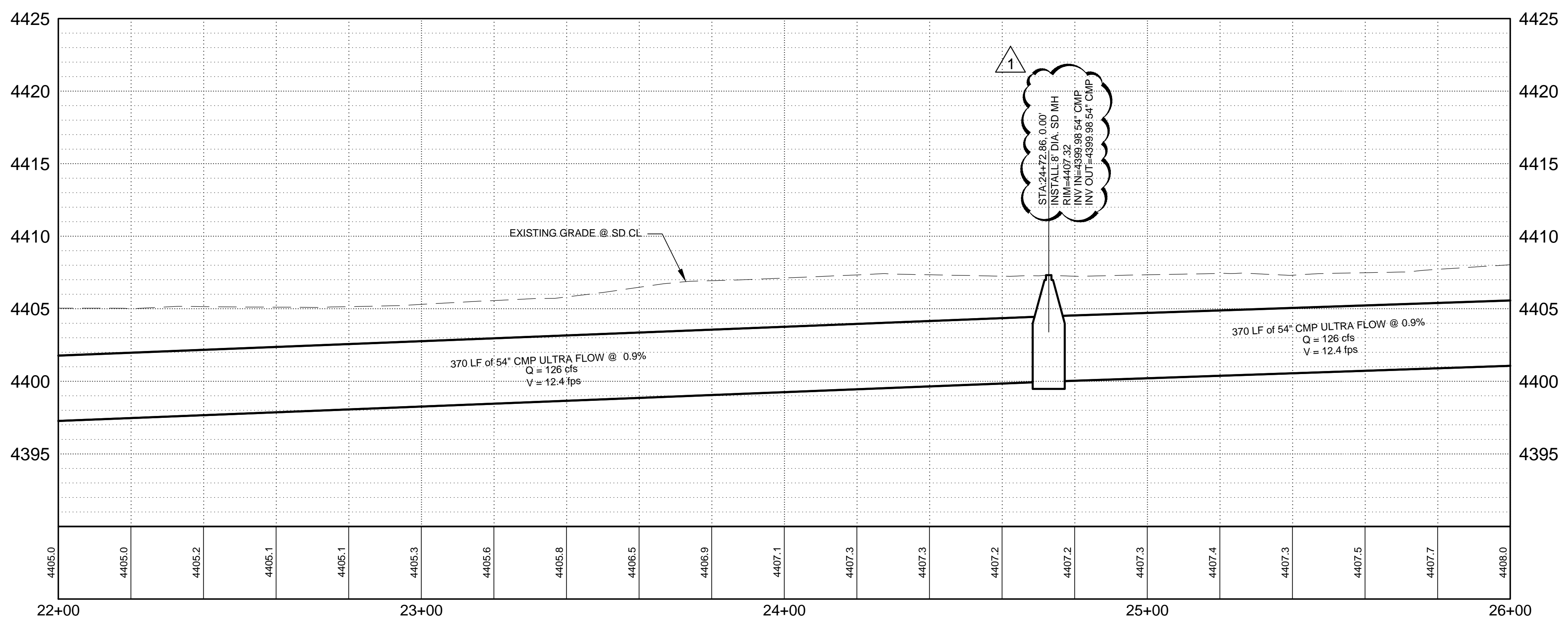
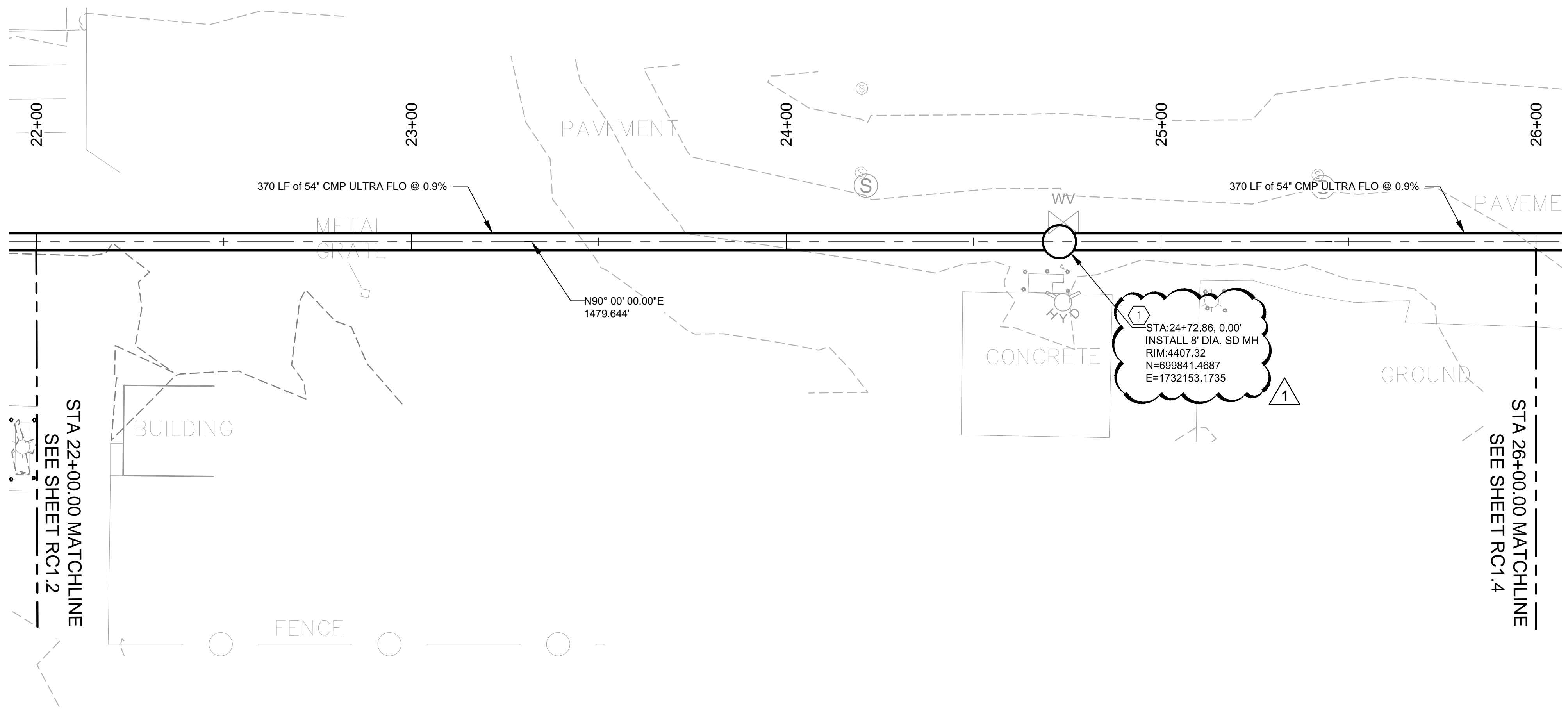
GRIGGS RESERVOIR OUTFALL STRUCTURE MODIFICATIONS AND STORM DRAIN IMPROVEMENTS PROJECT REMOVALS

CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



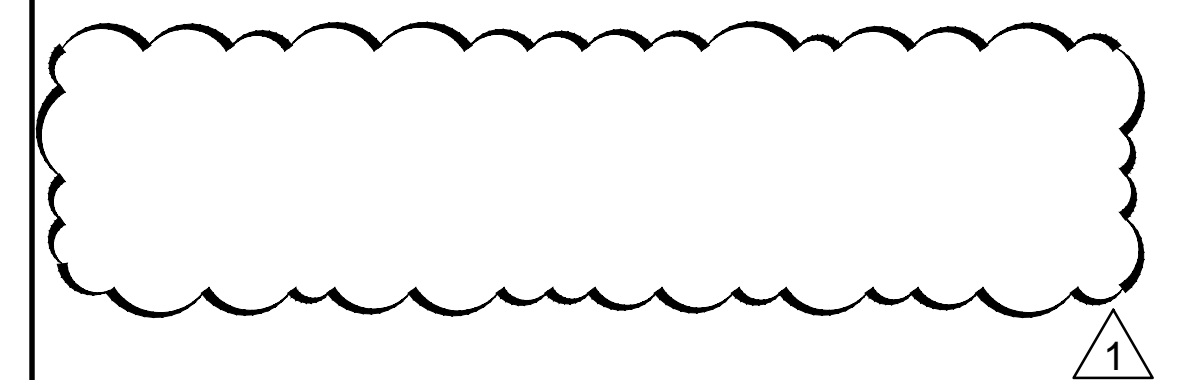
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Public Works Bid No.: 2018-003	Sheet No.: R-102
Drawn By: MTR Designed By: EEV	Sheet 9 of 37
Checked By: BMF Approved By: _____	
Scale: Horiz.: 1" = 60' Vert.: _____	



KEYNOTES

- SEE SHEET D1.4 AND D1.5 FOR MANHOLE DETAILS.



LEGEND

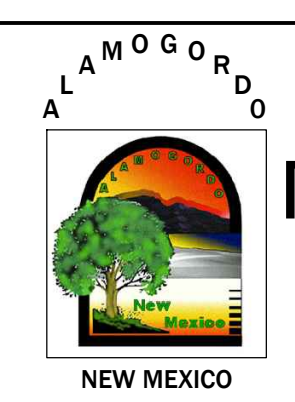
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- - - 3817 - - - PROPOSED INTERMEDIATE CONTOURS
- - - 3817 - - - EXISTING CONTOURS MAJOR
- - - - - EXISTING INTERMEDIATE CONTOURS
- GAS — GAS — GAS — EXISTING UNDERGROUND GAS
- WTR — WTR — WTR — EXISTING UNDERGROUND WATER
- UE — UE — UE — EXISTING UNDERGROUND ELECTRIC
- OHE — OHE — OHE — EXISTING ELECTRIC OVERHEAD
- SS — EXISTING SAS LINE
- — — EXISTING FENCE

- TREE
- PINE TREE
- EXISTING LIGHT POLE
- EXISTING SEWER MANHOLE
- EXISTING POWER POLE
- EXISTING WATER VALVE
- EXISTING WATER VALVE
- ELECTRIC BOX
- GATE

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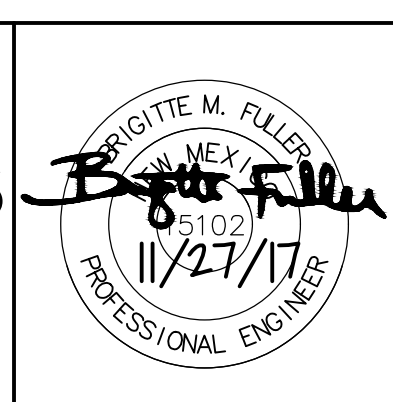
REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	MANHOLE REVISION GENERAL NOTE REMOVAL	BMF

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 Professional Resources for Damage Prevention



**GRIGGS RESERVOIR OUTFALL STRUCTURE
 MODIFICATIONS AND STORM DRAIN IMPROVEMENTS
 PLAN & PROFILE**

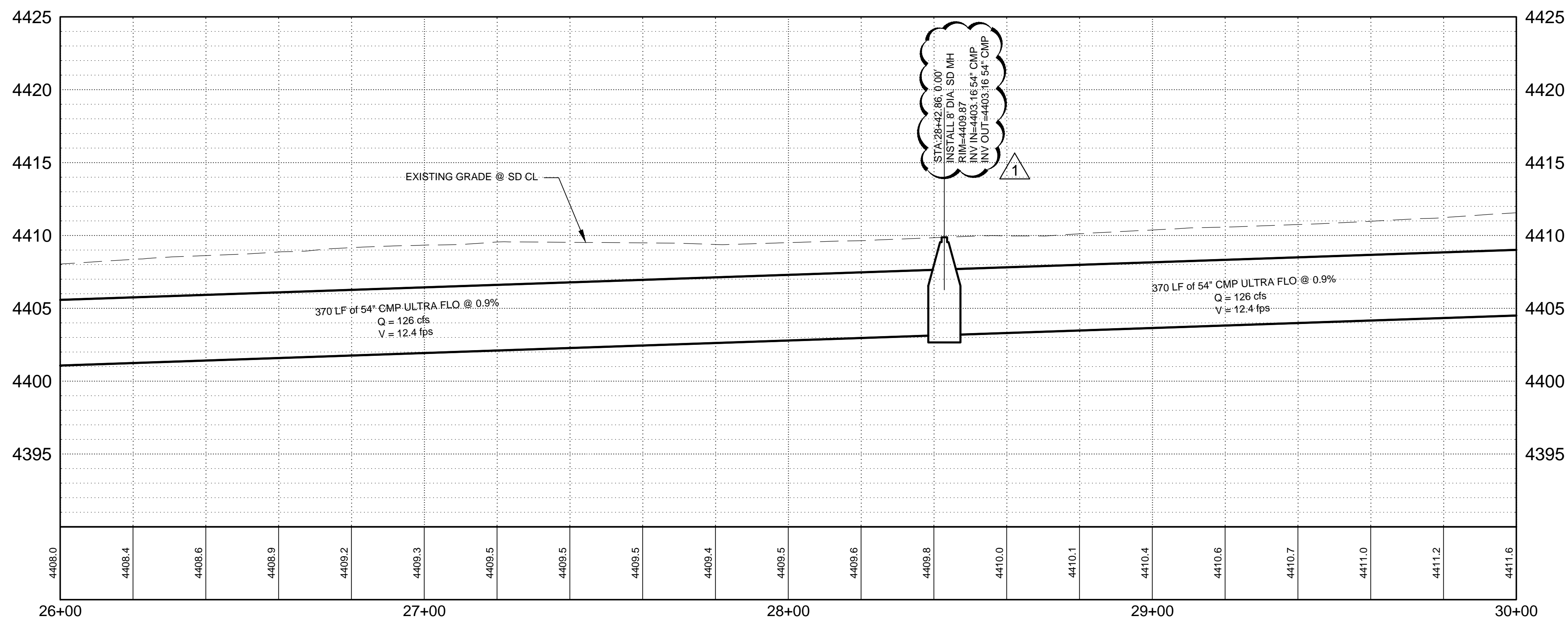
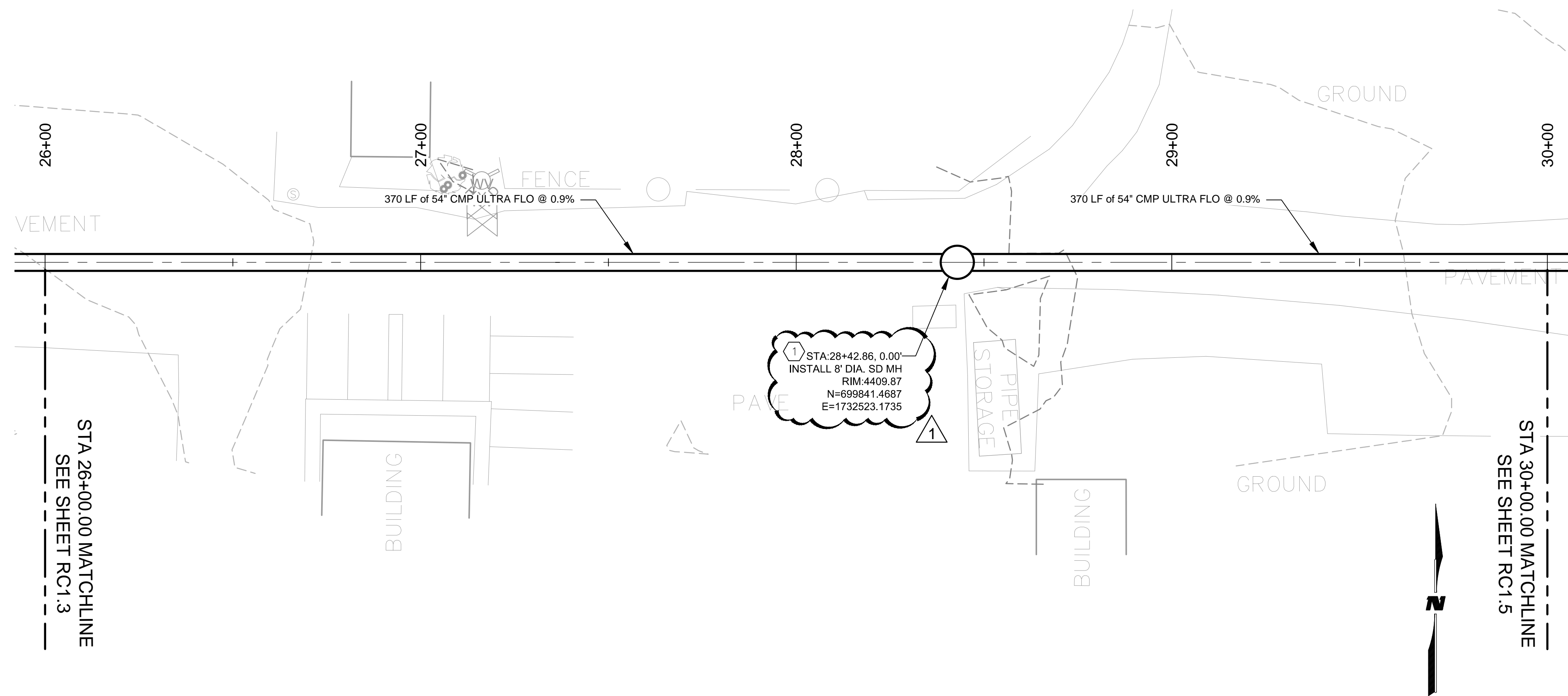
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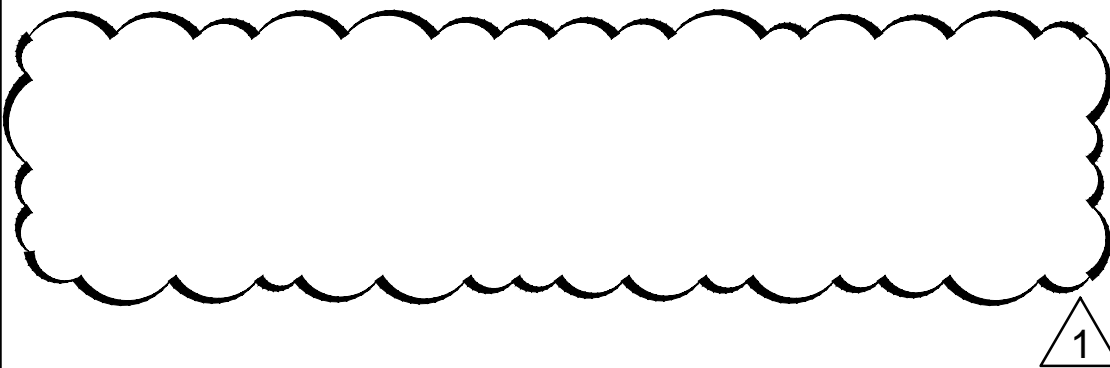
Public Works Bid No.: 2018-003	Sheet No.:
Drawn By: MTR	Designed By: EEV
Checked By: BMF	Approved By:
Scale: Horiz.: 1" = 20' Vert.: 1" = 5'	Sheet 14 of 37

RC1.3



KEYNOTES

- SEE SHEET D1.4 AND D1.5 FOR MANHOLE DETAILS.



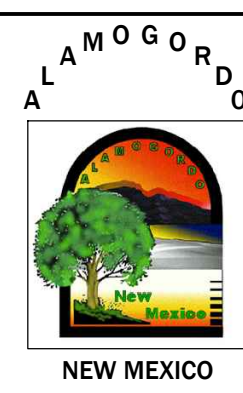
LEGEND

- 3817 — PROPOSED CONTOURS MAJOR
- - - 3817 - - - PROPOSED INTERMEDIATE CONTOURS
- - - 3817 - - - EXISTING CONTOURS MAJOR
- - - - - EXISTING INTERMEDIATE CONTOURS
- GAS - - - - GAS - - - - EXISTING UNDERGROUND GAS
- WTR - - - - WTR - - - - EXISTING UNDERGROUND WATER
- UE - - - - UE - - - - EXISTING UNDERGROUND ELECTRIC
- OHE - - - - OHE - - - - EXISTING ELECTRIC OVERHEAD
- SS - - - - EXISTING SAS LINE
- - - - - EXISTING FENCE
- (Tree symbol) TREE
- (Pine tree symbol) PINE TREE
- (Light pole symbol) EXISTING LIGHT POLE
- (S symbol) EXISTING SEWER MANHOLE
- (P symbol) EXISTING POWER POLE
- (WV symbol) EXISTING WATER VALVE
- (Circle symbol) EXISTING WATER VALVE
- (Square symbol) ELECTRIC BOX
- [GTE] GATE

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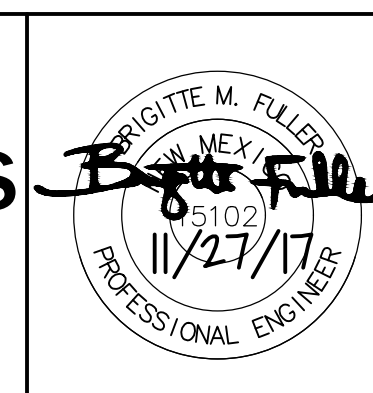
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1	05/21/18	MANHOLE REVISION GENERAL NOTE REMOVAL	BMF

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 Professional Resources for Damage Prevention



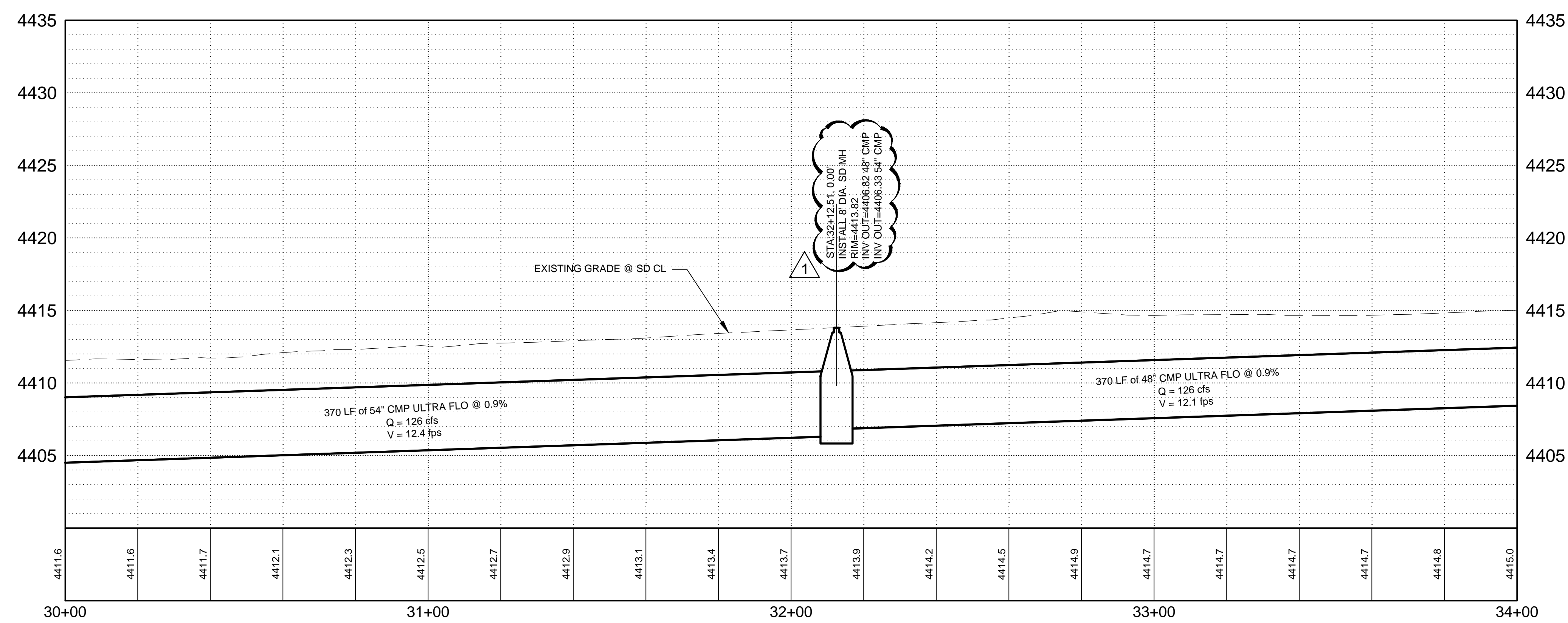
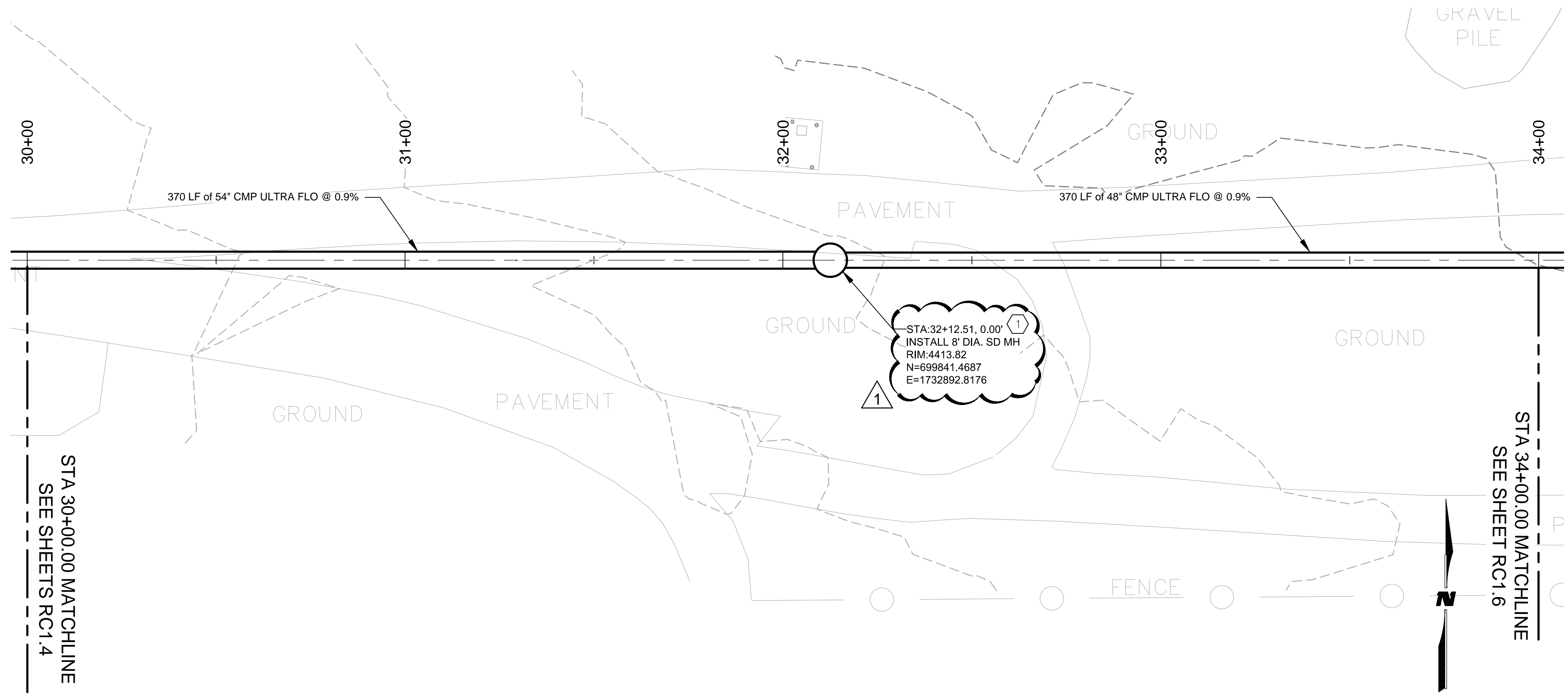
GRIGGS RESERVOIR OUTFALL STRUCTURE MODIFICATIONS AND STORM DRAIN IMPROVEMENTS PLAN & PROFILE

CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



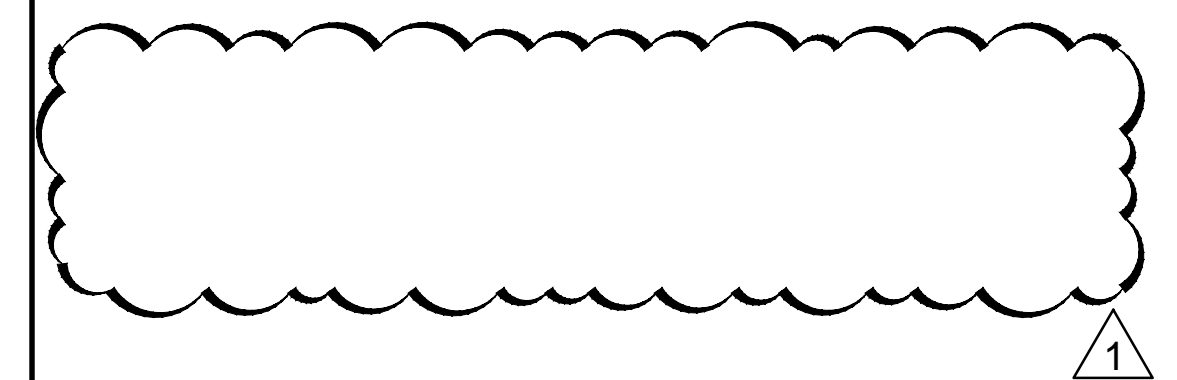
Public Works Bid No.: 2018-003
 Drawn By: MTR Designed By: EEV
 Checked By: BMF Approved By: _____
 Scale: Horiz.: 1" = 20' Vert.: 1" = 5'

Sheet No.: RC1.4
 Sheet 15 of 37



KEYNOTES

- SEE SHEET D1.4 AND D1.5 FOR MANHOLE DETAILS.



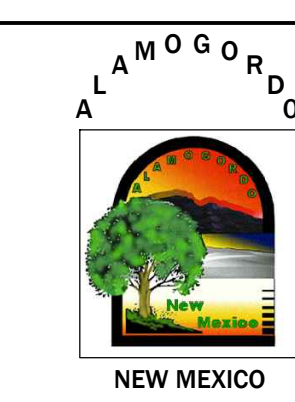
LEGEND

- 3817 — PROPOSED CONTOURS MAJOR
- - - 3817 - - - PROPOSED INTERMEDIATE CONTOURS
- - - - - EXISTING CONTOURS MAJOR
- - - - - EXISTING INTERMEDIATE CONTOURS
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- UE — UE — UE EXISTING UNDERGROUND ELECTRIC
- OHE — OHE — OHE EXISTING ELECTRIC OVERHEAD
- SS — SS EXISTING SAS LINE
- ○ ○ EXISTING FENCE
- ☼ TREE
- ☼ PINE TREE
- ☼ EXISTING LIGHT POLE
- ⊙ EXISTING SEWER MANHOLE
- ⊙ EXISTING POWER POLE
- ⊙ EXISTING WATER VALVE
- ⊙ EXISTING WATER VALVE
- ELECTRIC BOX
- GTE GATE

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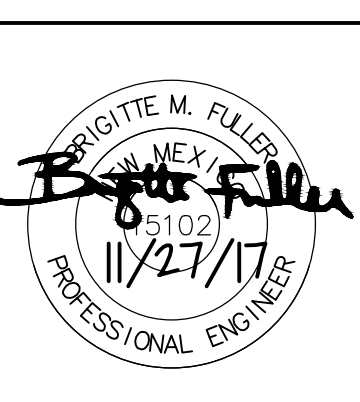
REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	MANHOLE REVISION GENERAL NOTE REMOVAL	BMF

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 Professional Resources for Damage Prevention



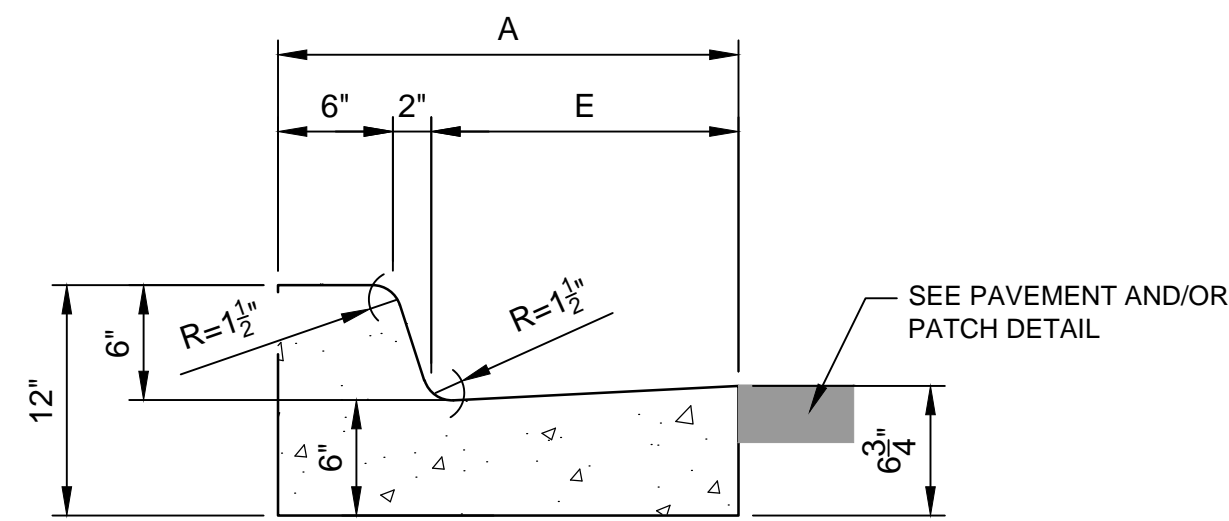
**GRIGGS RESERVOIR OUTFALL STRUCTURE
 MODIFICATIONS AND STORM DRAIN IMPROVEMENTS
 PLAN & PROFILE**

CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



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Public Works Bid No.: 2018-003	Sheet No.: RC1.5
Drawn By: MTR	Designed By: EEV
Checked By: BMF	Approved By:
Scale: Horiz.: 1" = 20'	Vert.: 1" = 5'
Sheet 16 of 37	



STAND-UP CURB & GUTTER

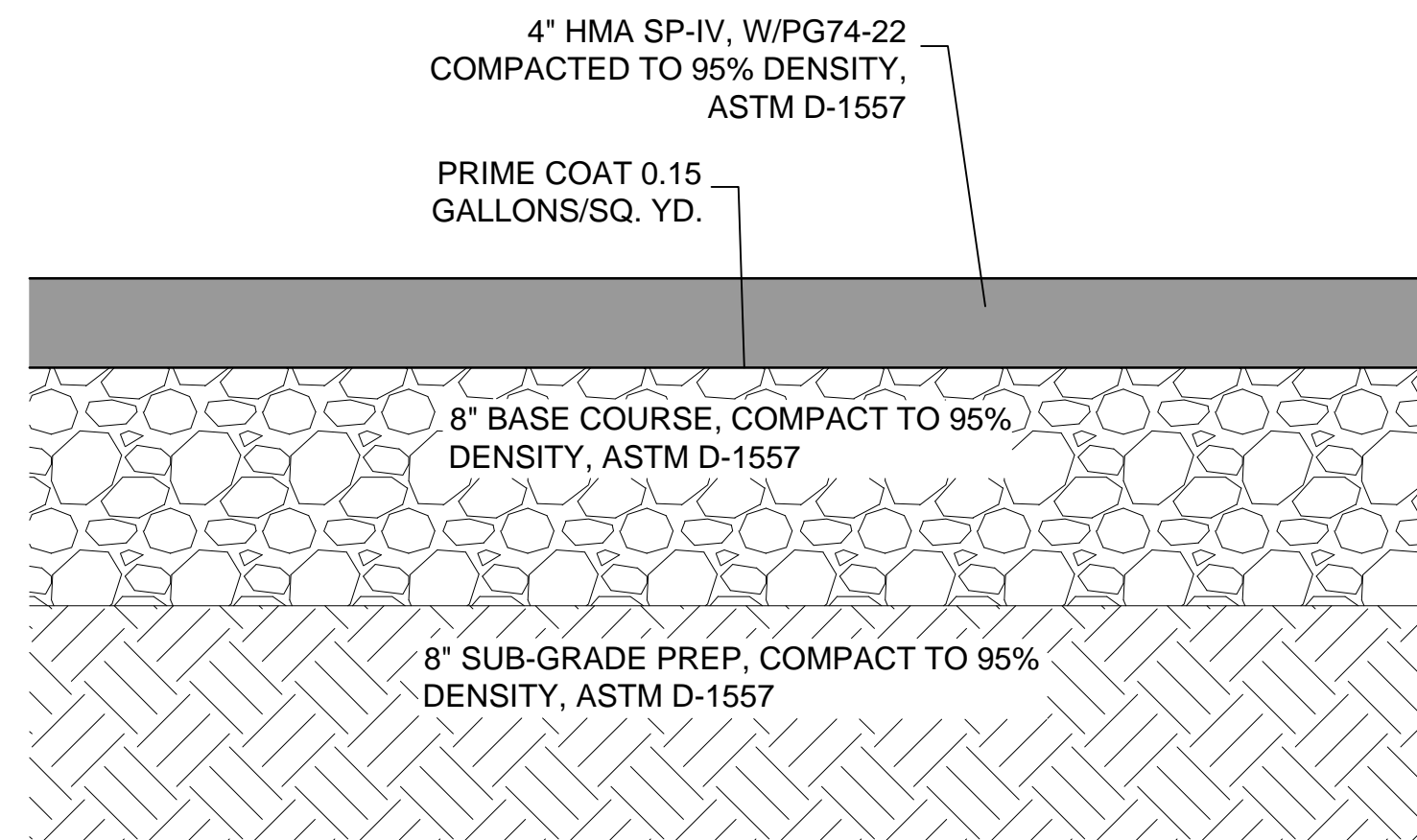
CURB & GUTTER LEGEND			
TYPE	I	II	III
A	18"	24"	30"
B	5 5/8"	5 5/8"	5 5/8"
C	5"	7"	7"
D	7 3/8"	11 3/8"	17 3/8"
E	10"	16"	22"

TYPICAL CURB AND GUTTER DETAIL

No Scale

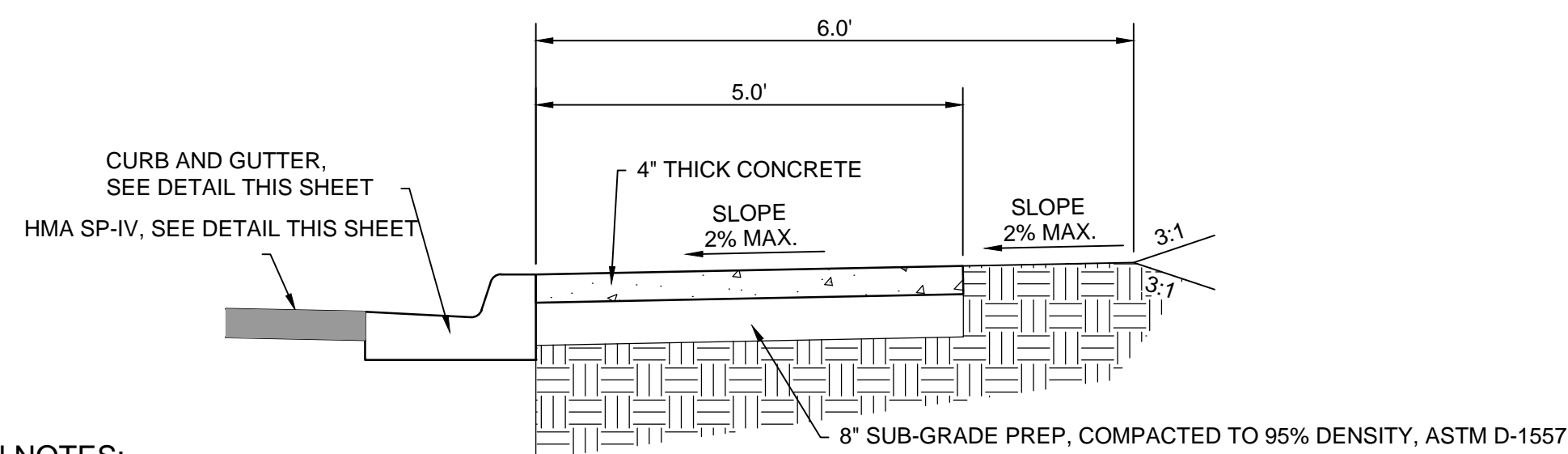
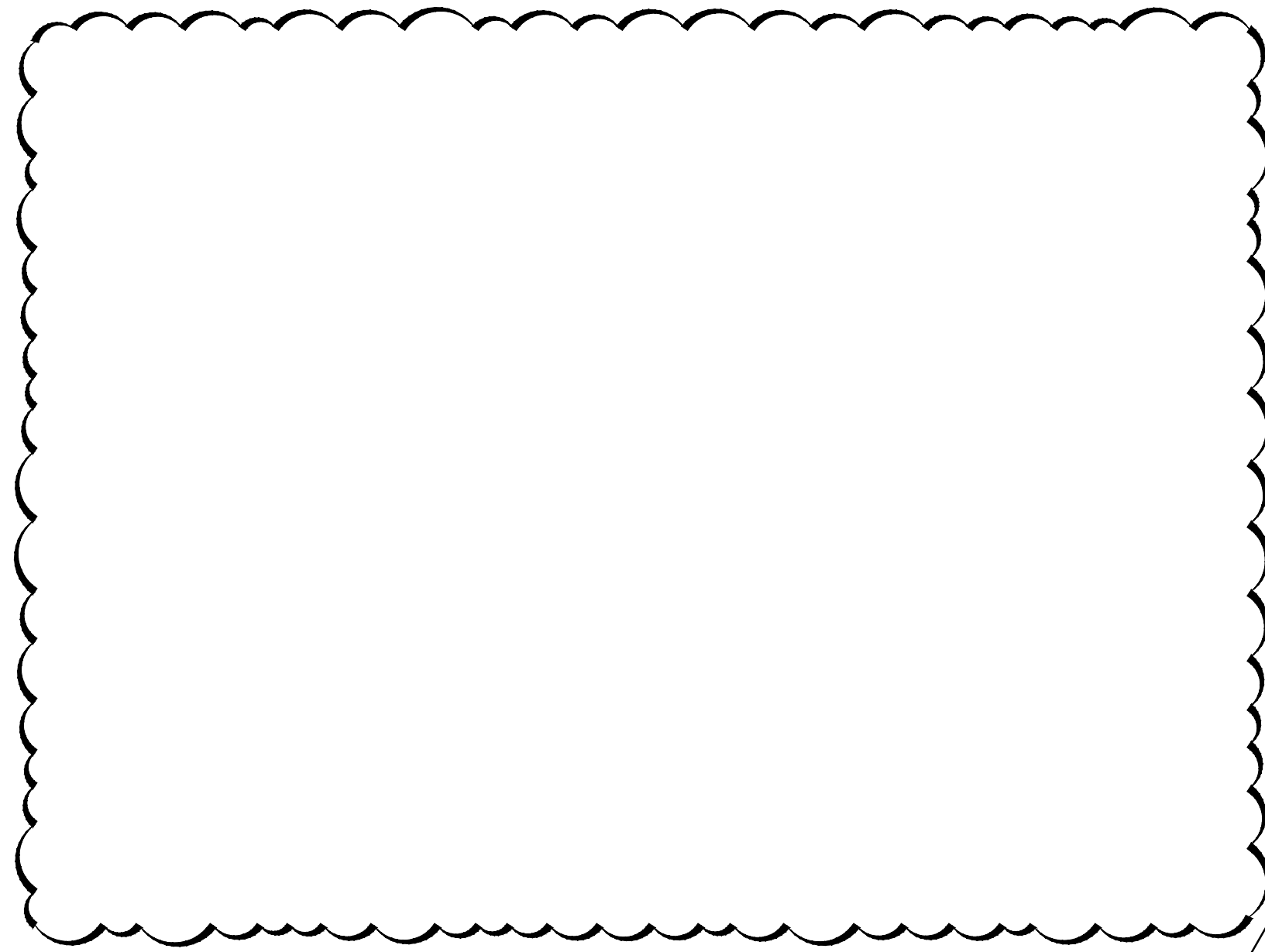
GENERAL NOTES:

1. NEW CURB AND GUTTER PROFILE SHALL MATCH EXISTING ADJACENT CURB AND GUTTER AND/OR STREET PROFILE.
2. NEW CURB AND GUTTER SHALL INCLUDE 8-INCH SUB-GRADE PREP.
3. NEW CURB AND GUTTER SHALL INCLUDE 6-INCH BASE COURSE.
4. EDGES OF CURB AND GUTTER NOT SPECIFICALLY DIMENSIONED SHALL BE EDGED WITH A 3/8" EDGING TOOL.
5. DIMENSIONS AT ROUNDED CORNERS MEASURED TO INTERSECTION OF STRAIGHT LINES.
6. PROVIDE CONTROL JOINTS EVERY 5'-0". CONTROL JOINTS SHALL BE TWO JOINTED WITH TOP ROUND EDGE OF 1/8" RADIUS; DEPTH OF 1". THE FINISHED JOINT OPENING EXCLUDING RADII, SHALL NOT BE WIDER THAN 1/8".
7. PROVIDE 1/2" EXPANSION JOINTS EVERY 50'-0", ALONG CURB AND GUTTER.
8. TACK COAT EDGE OF GUTTER PRIOR TO PLACEMENT OF NEW PAVEMENT/PAVEMENT PATCH.
9. THE CONSTRUCTION OF CURB & GUTTER AND/OR PAVEMENT SHALL BE CONSTRUCTED SO THAT THE GUTTER FLOW WILL BE CONSTANT (NO PONDING AREAS WILL BE ACCEPTED).



TYPICAL PAVEMENT PATCH - FLORIDA AVE & PUBLIC WORK YARD

No Scale



Typical Sidewalk Detail

No Scale

SIDEWALK/DRIVEWAY APRON NOTES:

1. CROSS SLOPE SHALL NOT EXCEED 2% MAXIMUM.
2. RAMP SLOPE SHALL NOT EXCEED 6.25% MAXIMUM.
3. CONTRACTOR SHALL FIELD VERIFY CROSS SLOPE AND RAMP SLOPE AND COORDINATE WITH ENGINEER ITEMS THAT MAY EXCEED THESE MAXIMUM REQUIREMENTS.
4. COORDINATE WITH ENGINEER LIMITS OR PAVEMENT REMOVAL.
5. COORDINATE WITH ENGINEER LIMITS OF BACKFILL REQUIREMENTS.

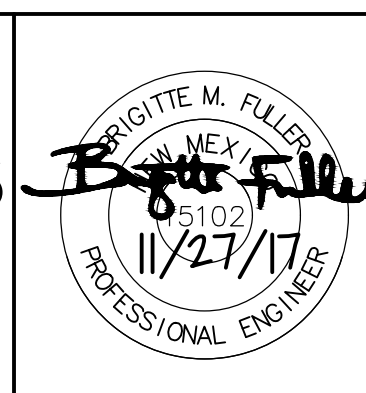
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REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	DETAIL NAME CORRECTION & DETAIL REMOVAL	BMF

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ALAMOGORDO DETAILS
 CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



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Public Works Bid No.: 2018-003	Sheet No.:
Drawn By: MTR	Designed By: EEV
Checked By: BMF	Approved By:
Scale: Horiz.: N/A	Vert.: N/A

D1.6
Sheet 27 of 37

EARTHWORK TABLE

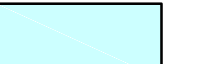

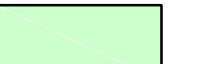

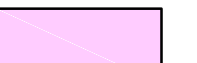
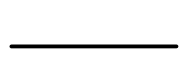
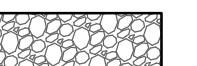

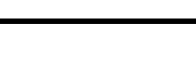
	UNCLASSIFIED EXCAVATION (CY)	ENGINEERED FILL BORROW (CY)	*EMBANKMENT (CY)
RETENTION AREA (EXISTING GRADE TO PROPOSED GRADE)	26,166.87	0.00	18,798.93
EMERGENCY SPILLWAY (FROM EXISTING GRADE TO PROPOSED GRADE) CBC & INTAKE STRUCTURE NOT INCLUDED	2,229.27	2,086.31	0.00
EAST BREACH (EXISTING GRADE TO PROPOSED GRADE)	117.53	1,446.36	0.00
CHANNEL (EXISTING GRADE TO PROPOSED GRADE)	4,667.02	0.00	121.07
PROJECT USE	33,180.69	3,532.67	
PROJECT TOTAL	35,000.00	4,200.00	

*NO PAYMENT SHALL BE MADE FOR EMBANKMENT, THIS WORK IS INCIDENTAL TO UNCLASSIFIED EXCAVATION. NO SHRINKAGE FACTOR HAS BEEN APPLIED TO THE PROJECT USE TOTAL.
NOTE: METHOD OF MEASUREMENT AND PAYMENT SHALL FOLLOW NMDOT SPECIFICATION 203.4.3

KEYNOTES

- CONSTRUCT 5" REINFORCED CONCRETE. SEE SHEET C-507.
- CONSTRUCT RISER. SEE DETAIL A4/C-503.
- BORROW SOURCE. SEE GEOTECHNICAL REPORT ADDENDUM #1 FOR SITE GRADING AND STRUCTURAL FILL FOR SPECIFICATIONS. SEE PROJECT SPEC BOOK.

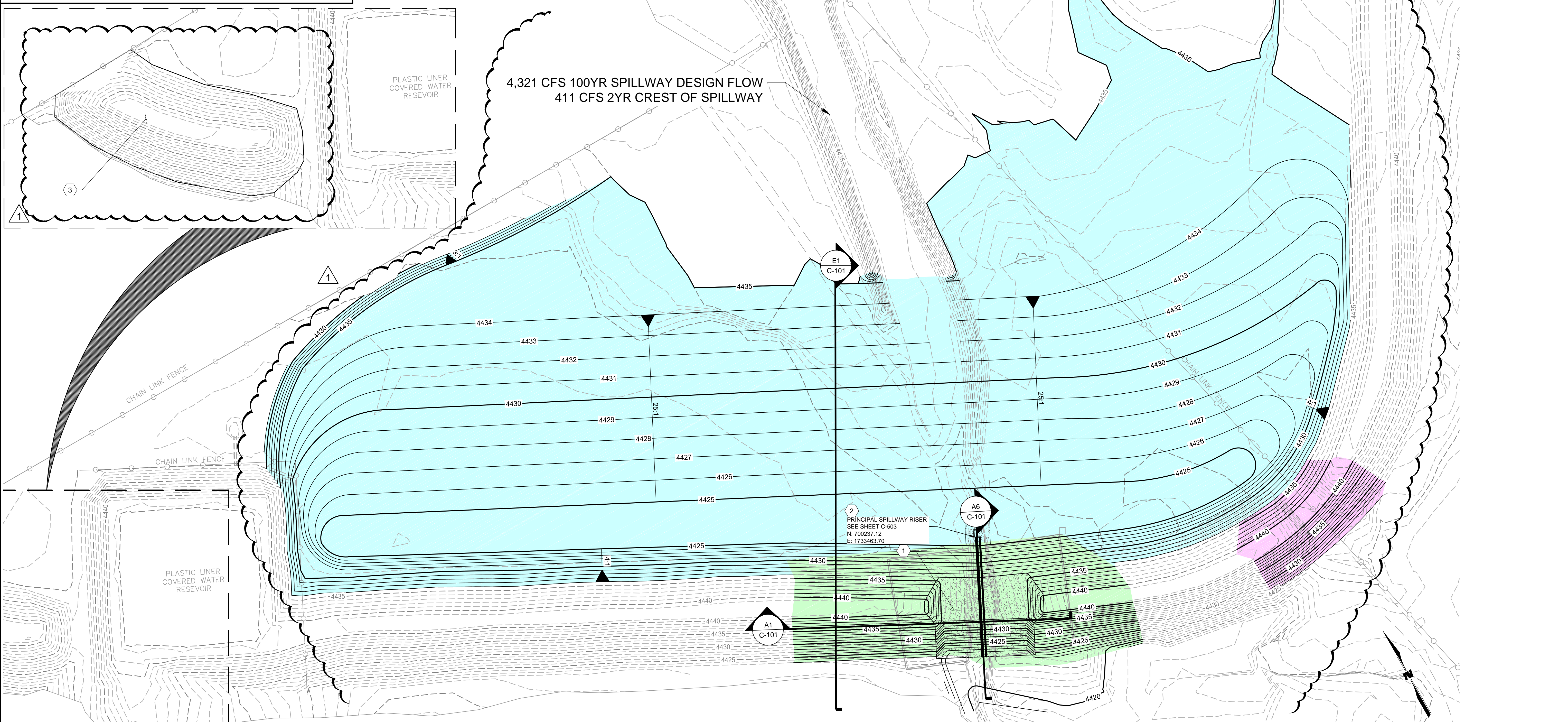
LEGEND

	RETENTION AREA		5" THICK REINFORCED CONCRETE
	EMERGENCY SPILLWAY		EXISTING MAJOR TOPO CONTOUR
	EAST BREACH		EXISTING MINOR TOPO CONTOUR
	WIRE-ENCLOSED RIPRAP		PROPOSED MAJOR TOPO CONTOUR
			PROPOSED MINOR TOPO CONTOUR

Griggs Stage Storage Table

Contour Elevations (ft)	Contour Area (ft ²)	Area Incremental (acre-ft)	Incremental Depth (ft)	Average End Area Incremental (acre-ft)	Average End Area Cumulative (acre-ft)
4425.00	64271.7	1.48	N/A	N/A	0
4426.00	101460.63	2.33	1	1.90	1.90
4427.00	138458.29	3.18	1	2.75	4.66
4428.00	176303.68	4.05	1	3.61	8.27
4429.00	214751.84	4.93	1	4.49	12.76
4430.00	256930.11	5.90	1	5.41	18.17
4431.00	297585.5	6.83	1	6.36	24.54
4432.00	327923.6	7.53	1	7.18	31.72
4433.00	382018.61	8.77	1	8.15	39.87
4434.00	427758.47	9.82	1	9.29	49.16

*Note: Emergency Spillway Crest Elevation=4434.00



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REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	EARTHWORK CLARIFICATION	BMF

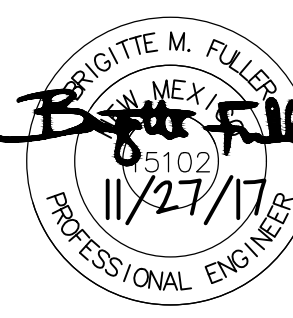
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ALAMOGORDO
NEW MEXICO


GRIGGS RESERVOIR OUTFALL STRUCTURE MODIFICATIONS AND STORM DRAIN IMPROVEMENTS
RESERVOIR GRADING PLAN
CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS

BRIGITTE M. FULLER
Professional Engineer
11/27/17

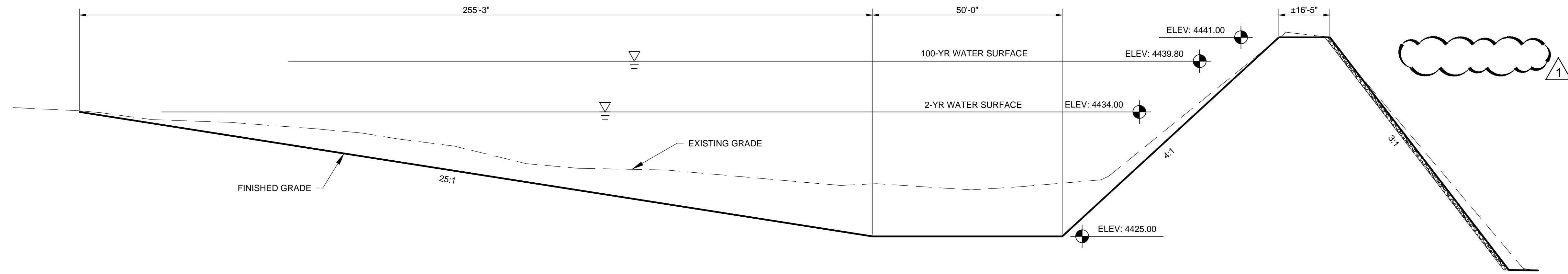


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ALBUQUERQUE, NM 87109
PHONE: 505-348-4000
FAX: 505-348-4055 FIRST FLOOR
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www.wilsonco.com

Public Works Bid No.: 2018-003
Drawn By: MTR Designed By: EEV
Checked By: BMF Approved By:
Scale: Horiz.: 1" = 60' Vert.: N/A

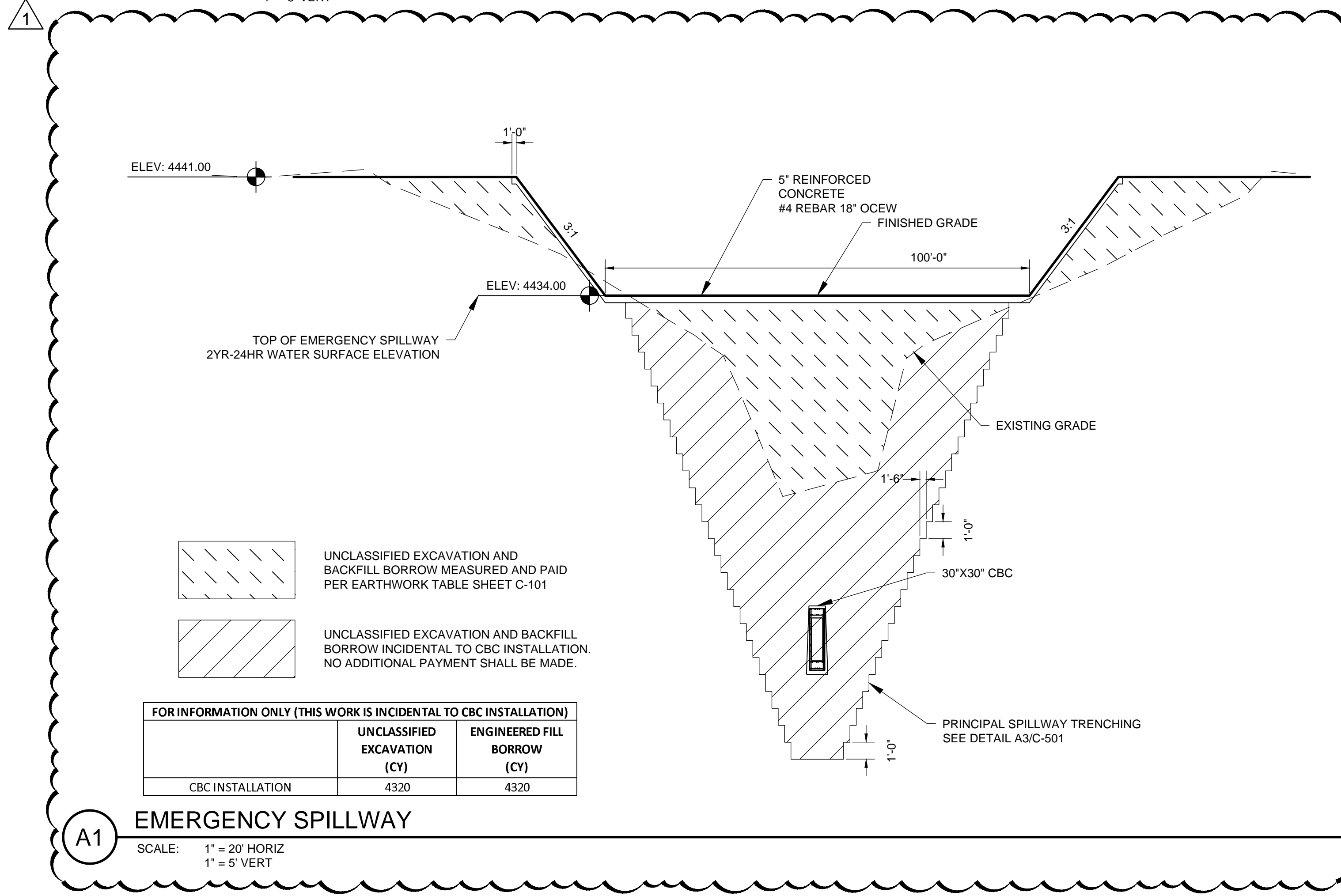


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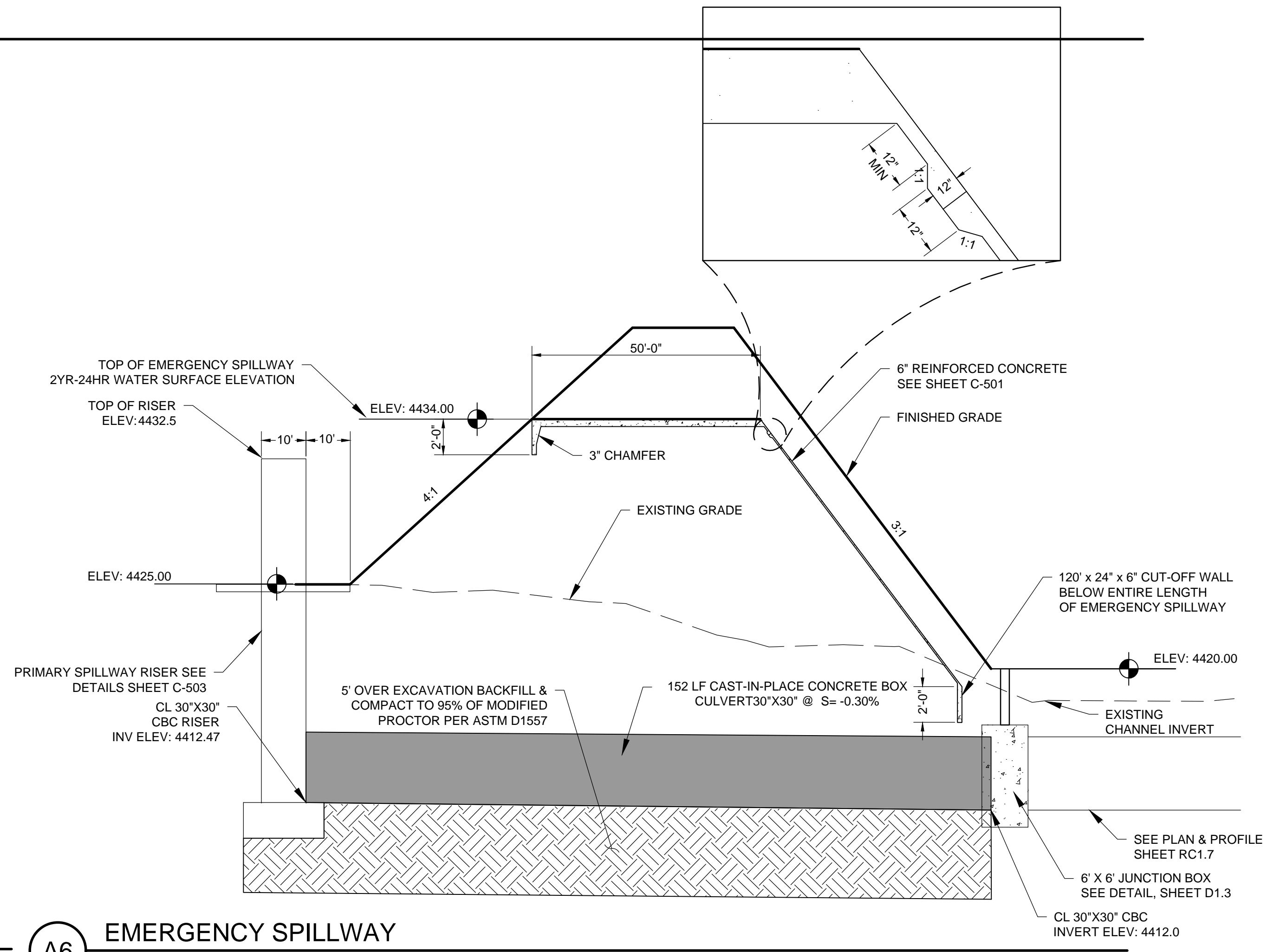
E1 POND TYPICAL SECTION

SCALE: 1" = 20' HORIZ
1" = 5' VERT



A1 EMERGENCY SPILLWAY

SCALE: 1" = 20' HORIZ
1" = 5' VERT



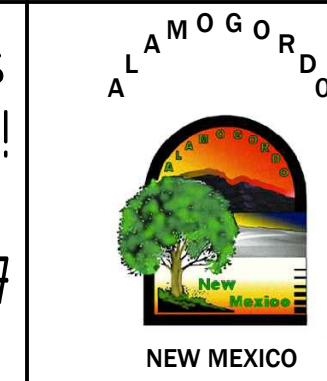
A6 EMERGENCY SPILLWAY

SCALE: 1" = 20' HORIZ
1" = 5' VERT

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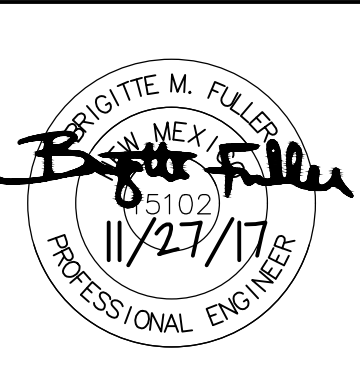
REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	EARTHWORK CLARIFICATION DELETE GRAVEL MULCH	BMF

New Mexico One Call, Inc. Call 2 days before you dig!
NMOC Dial 811 or 1-800-321-2537
 Professional Resources for Damage Prevention



**GRIGGS RESERVOIR OUTFALL STRUCTURE
 MODIFICATIONS AND STORM DRAIN IMPROVEMENTS
 RESERVOIR CROSS SECTIONS**

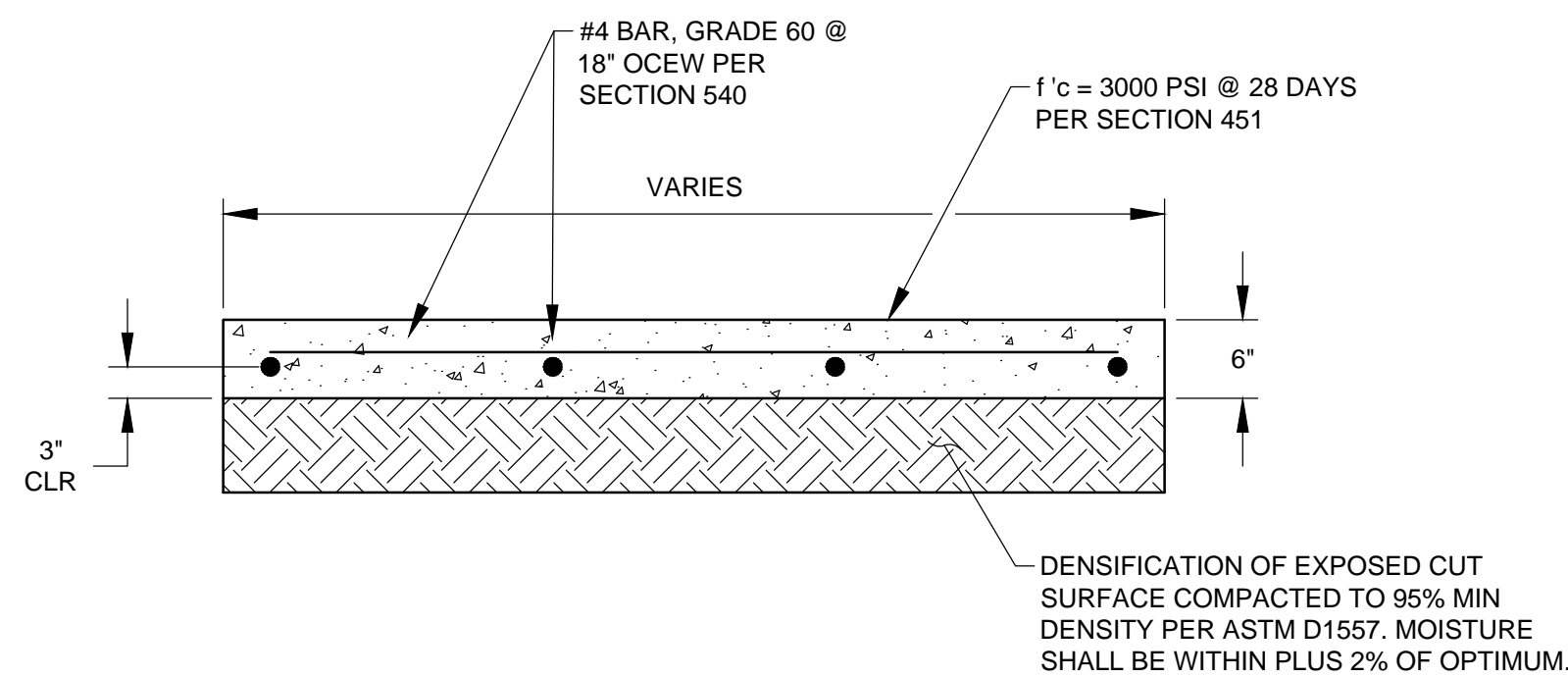
CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



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Public Works Bid No.: 2018-003	Sheet No.:
Drawn By: MTR	Designed By: EEV
Checked By: BMF	Approved By:
Scale: Horiz.:	Vert.:

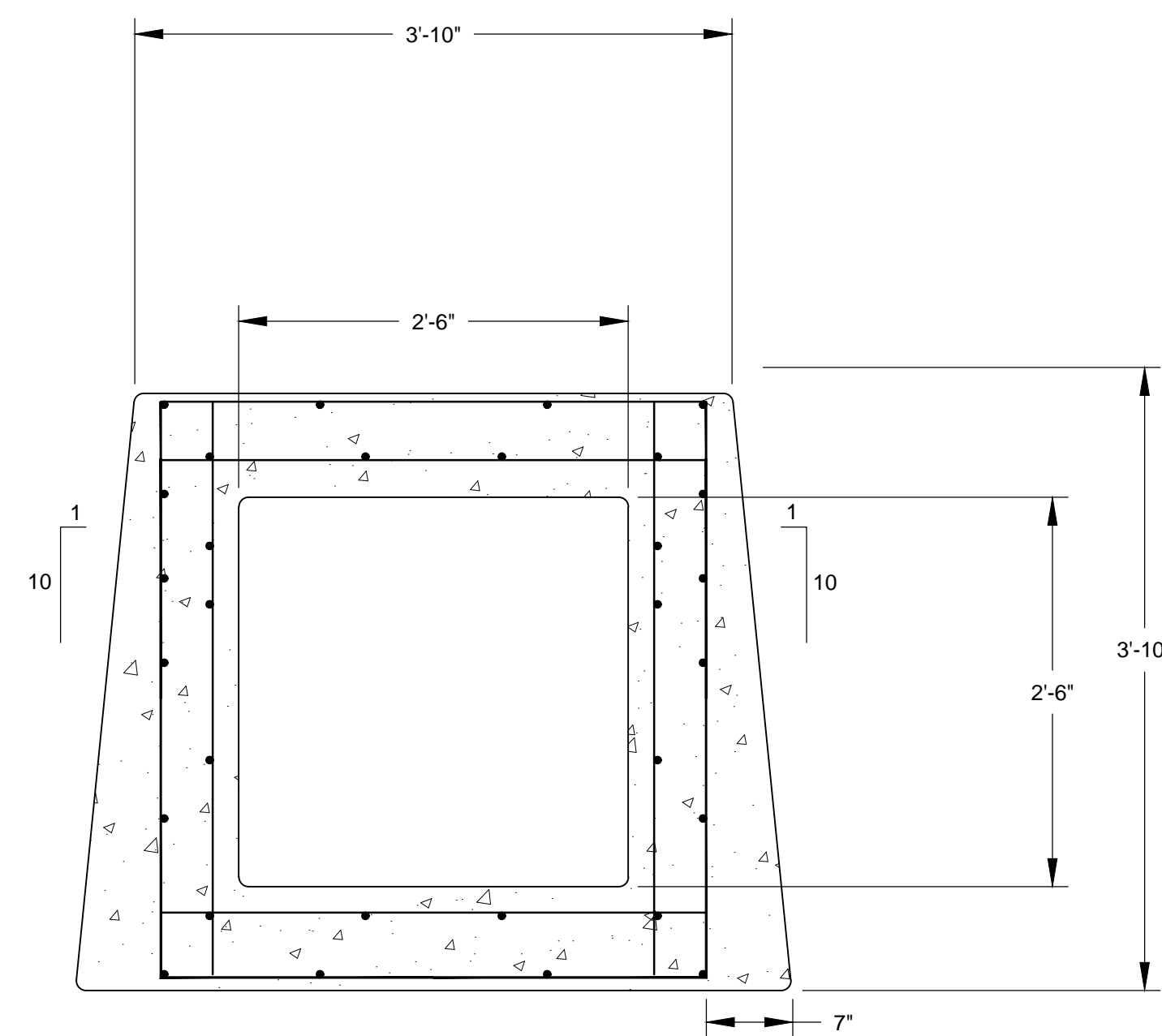
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CONSTRUCTION NOTES

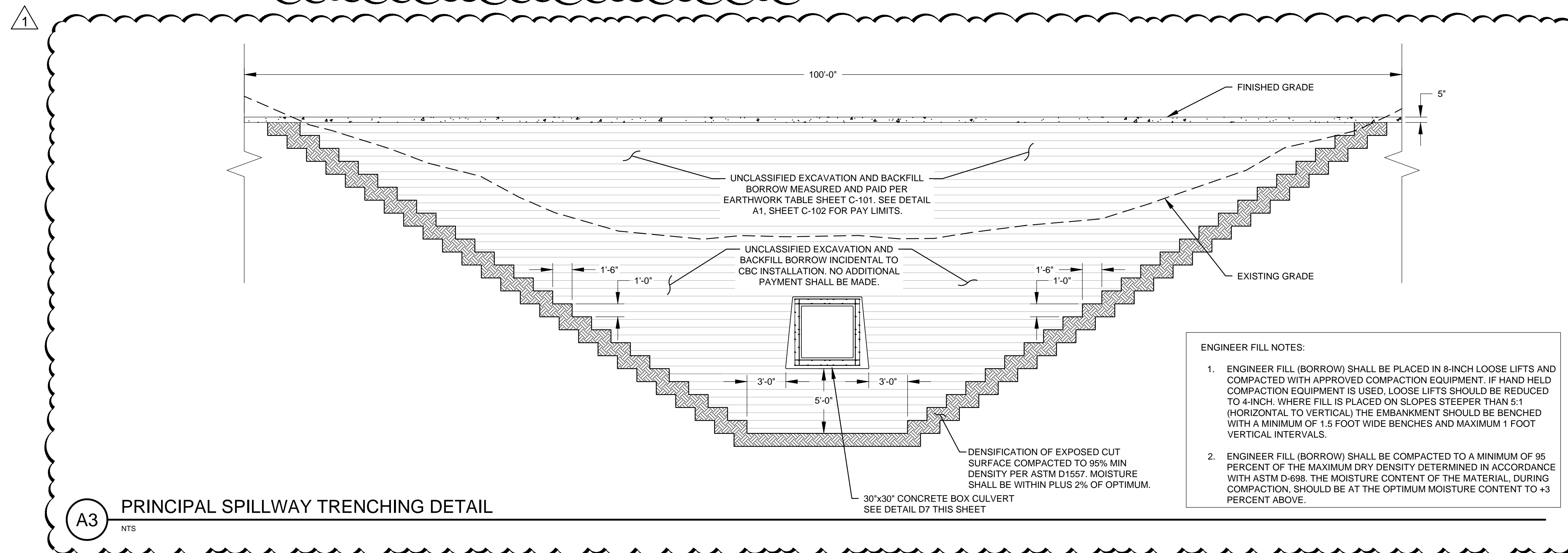
- 1 WHEN ABUTTING TO VERTICAL WALLS, BENCHES OR BUILDINGS, INSTALL $\frac{1}{2}$ " BITUMINOUS EXPANSION JOINT. RECESS $\frac{1}{4}$ " VERTICALLY. INSTALL SIKA-FLEX POLYMER SEALANT OR APPROVED EQUAL PER SECTION 561 (TYP)
- 2 EXPANSION JOINTS SHALL BE SPACED 30' MAX
- 3 INSTALL CONTRACTION JOINTS AT 6'-0" OC
- 4 LIGHT BROOM FINISHED CONCRETE SURFACE REQUIRED.

D4 6" REINFORCED CONCRETE
SCALE: 1"=1'



FOR STEEL DETAIL SEE SHEET C-502 FOR NMDOT STD. DTL. FOR CBC DESIGN FILL "D"

D7 30"x30" CAST-IN-PLACE CONCRETE BOX CULVERT W/BATTERED SIDE DETAIL
SCALE: 1"=1'

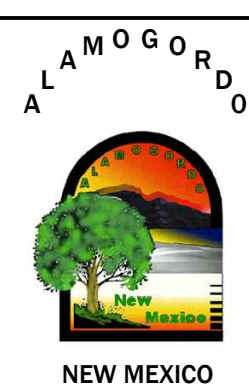


A3 PRINCIPAL SPILLWAY TRENCHING DETAIL
NTS

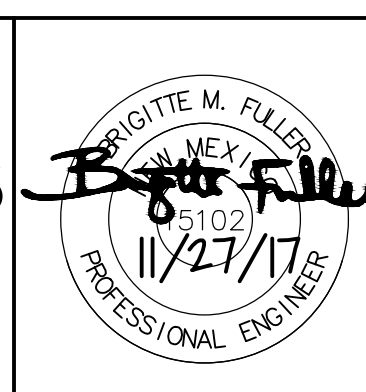
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REV. No.	DATE	DESCRIPTION	APPROVED
	05/21/18	EARTHWORK CLARIFICATION DETAIL CORRECTION	BMF

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SITE DETAILS
CITY OF ALAMOGORDO, NEW MEXICO, DEPARTMENT OF PUBLIC WORKS



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Public Works Bid No.: 2018-003	Sheet No.: C-501
Drawn By: MTR	Designed By: EEV
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Scale: Horiz.:	Vert.:

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