Consideration of Lea County Resolution No. 22-DEC-276R Awarding Bid No. 6 (2022-2023) Landfill Roadway Drainage Low Water Crossing.

#### Length Of Project: 0.21 Miles

Storm water runoff from the City of Hobbs storm drain system exits the city in 3 locations. One of these locations is the East Drainage Channel that crosses Landfill Road east of Hobbs.

During and after moderate storm events, this roadway becomes impassable to vehicles and leaves large debris in the roadway requiring closure of the roadway.

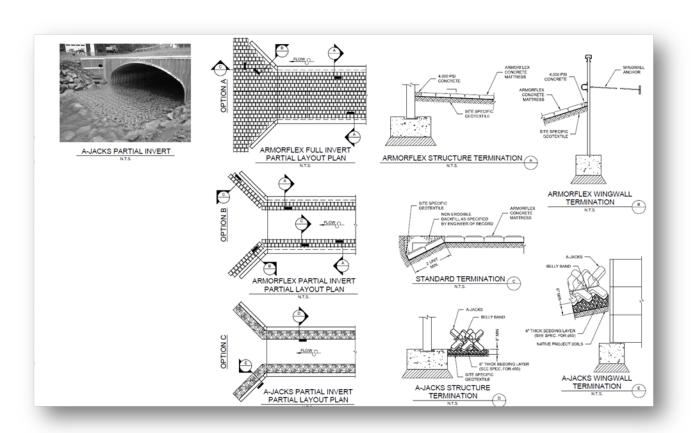




NOT TO SCALE

Lea County contracted with Souder Miller and Associates to design a 19' x 6' x 63' arch pipe culvert system to allow this storm runoff and large debris to pass under the roadway. This is the same system Lea County constructed at the Lea County Regional Airport last year.

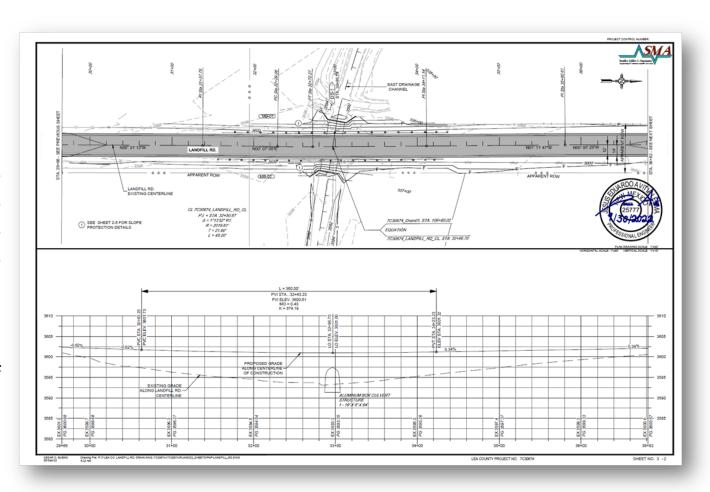
This will require elevating the roadway approximately 10' from its current elevation.



On November 10, 2022, bids submitted for the referenced project were opened at 2:00 PM at the Lea County Courthouse. A total of three bids were received as shown below:

Submitted By	Bid Amount
Constructor's Inc.	\$1,200,182.00
J&H Services, Inc.	\$985,615.00
Ramirez & Sons, Inc.	\$845,490.00

Staff recommends the County award Bid No. 06-(22-23) to Ramirez & Sons in the amount of \$845,490.00 per bid. The bid amounts shown do not include New Mexico Gross Receipts Tax.





## LEA COUNTY BOARD OF COUNTY COMMISSIONERS AGENDA ITEM SUMMARY FORM

LCBCC Meeting Date: Thursday, December 8, 2022

Submit this summary form & all attachments to agenda@leacounty.net by:

Monday, November 28, 2022

County Manager Approval required for all time sensitive issues that do not meet the above deadline.

Carron Manadhana ACM					
11/23/2022 Corey Needham, ACM					
ATTACHMENT(S):					
Recommendation of Award, Cer	tified Bid Tab, Powerpoint, Resolution				
ACTION REQUESTED:					
Action Item					
FISCAL BUDGET YEAR:					
FY 22/23					
ork, and county facilities shall be m	naintained and shall meet the changing				
s the city in 3 locations. One c	of these locations is the East				
npassable to vehicles and leave	es large debris in the roadway				
m Lea County constructed at t	ert system to allow this storm runoff the Lea County Regional Airport last				
ptop/Projector/Etc.: Other:	See Additional Summary Attached				
	Submitter's Signature				
	Department Director, Etc.  Corey Digitally signed by Corey Needham Needham Dala: 2022.11.23 12:27:21 -07:00'				
	Reviewed by Finance Director				
d of \$845,490.00. Funds are	Henry C Low Jr Digitally signed by Henry C Low Jr Date: 2022.11.28 12:51:37 -07'00'				
	Reviewed by County Attorney				
	Approved by County Manager to be Placed on Agenda  MuhaeCollogu-				
NLY ~ COMMISSION ACTION	I TAKEN				
Ordinan	ice No				
	ATTACHMENT(S):  Recommendation of Award, Cer  ACTION REQUESTED:  Action Item  FISCAL BUDGET YEAR: FY 22/23  ork, and county facilities shall be in the city in 3 locations. One of the city in				

Summary Form Continued						
On November 10, 2022 three bids were receive	, bids submitted for the referenced project were opened at 2:00 PM at the Lea County Courthouse. A total of d as shown below:					
Constructor's Inc.	\$1,200,182.00					
J&H Services, Inc.	\$985,615.00					
Ramirez & Sons, Inc.	\$845,490.00					
Staff recommends the O do not include New Me	County award Bid No. 06(22) to Ramirez & Sons in the amount of \$845,490.00 per bid. The bid amounts shown xico Gross Receipts Tax.					

#### STATE OF NEW MEXICO COUNTY OF LEA RESOLUTION NO. 22-DEC-276R

## A RESOLUTION AWARDING BID NO. 6 (2022-2023) LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

**WHEREAS**, roadways play a critical role in the emergency response, quality of life and economic vitality for citizens of Lea County; *and* 

**WHEREAS**, the low water crossing on Landfill Road would benefit both from a maintenance standpoint and usability aspect by forcing the water under the roadway; and

**WHEREAS**, Lea County opened competitive bids for work to resolve issues associated with the roadway; and

WHEREAS, Ramirez and Sons submitted the low bid to for the proposed work; and

**WHEREAS**, Lea County plans to utilized Lea County funds to complete the project.

**NOW, THEREFORE, BE IT HEREBY RESOLVED** by the Board of County Commissioners of Lea County, that the award of Bid #6 (22-23) to Ramirez and Sons is hereby approved.

**BE IT FURTHER RESOLVED** that the Commission Chair and/or County Manager may finalize and sign any agreements consistent with the terms of this resolution.

**PASSED, APPROVED AND ADOPTED** on this 8<sup>th</sup> day of December, 2022, by the Lea County Board of County Commissioners in an open meeting in Lovington, New Mexico.

#### LEA COUNTY BOARD OF COUNTY COMMISSIONERS

Dean Jackson (District 1), Chair Voted: Yes No Abstain	Gary G. Eidson (District 3), Vice Chair Voted: Yes No Abstain
Rebecca Long (District 2), Member Voted: Yes No Abstain	Jonathan Sena (District 4), Member Voted: Yes No Abstain
Pat Sims (District 5), Member Voted: Yes No Abstain	

ATTEST:	Keith Manes Lea County Clerk	APPROVED AS TO FORM AND LEGAL SUFFICIENCY:
Ву:		
Tryon	Hassen, Chief Deputy Clerk	John W. Caldwell, County Attorney



November 17, 2022

Kelli Ferguson, CPO Finance Department, 4<sup>th</sup> Floor Lea County Courthouse 100 North Main, Suite 11 Lovington, NM 88260-4030

Re: Landfill Roadway Drainage Low Water Crossing

Bid 06 - (22-23)

**Bid Recommendations** 

Dear Kelli Ferguson,

On November 10, 2022, bids submitted for the referenced project were opened at 2:00 PM at the Lea County Courthouse. A total of three bids were received as shown below:

Submitted By	Bid Amount
Constructor's Inc.	\$1,200,182.00
J&H Services, Inc.	\$985,615.00
Ramirez & Sons, Inc.	\$845,490.00

Souder, Miller & Associates recommends the County award Bid No. 06-(22-23) to Ramirez & Sons in the amount of \$845,490.00 per bid. The bid amounts shown do not include New Mexico Gross Receipts Tax.

If you have any questions, please feel free to call me at 575-624-2400.

Sincerely,

SOUDER, MILLER & ASSOCIATES

Jesus E. Avitia, P.E.

Project Engineer I

#### **LEGAL NOTICE OF INVITATION FOR BIDS**

LEA COUNTY, NEW MEXICO

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

The Lea County Commissioners will receive sealed bids for the above-mentioned project. All bids shall be sealed, addressed and delivered <u>no later than 2:00 p.m. (local time) on November</u> **08, 2022,** to the:

Kelli Ferguson, CPO

Finance Department, 4th Floor Lea

**County Courthouse** 

100 North Main, Suite 11 Lovington,

New Mexico 88260-4030

Bids will be officially opened and publicly read aloud <u>no later than 2:00 p.m. (local time) on</u> **November 08, 2022,** in the:

Commission Chambers, 1st Floor Lea County Courthouse 100 North Main Lovington, New Mexico 88260

The bids received will be considered by the County Commission at its next regular meeting or at a special meeting as may be required.

Complete sets of the bidding documents may be obtained electronically upon request through the website of the ENGINEER, Souder, Miller & Associates, at <a href="https://www.soudermiller.com">www.soudermiller.com</a> at no cost.

Prospective bidders should review the project site on their own prior to bidding. Last day to submit questions will be <u>until 5:00 p.m. (local time) on October 28, 2022.</u> Email your questions to: jesus.avitia@soudermiller.com

No pre-bid meeting will be held.

LEA COUNTY BOARD OF COMMISSIONERS BY:

Dean Jackson, CHAIR

Publication Date(s): October 16, 2022

(FOR OWNER USE ONLY)

Newspaper: Hobbs News-Sun Newspaper: Lovington Leader

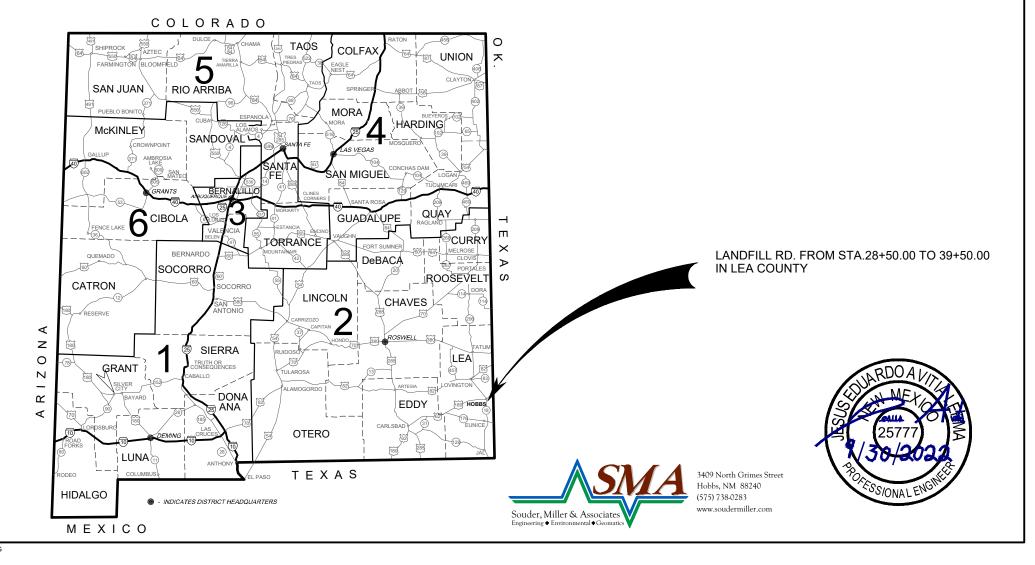
Publish: <u>10/16/2022</u> Publish: <u>10/16/2022</u>

# LEA COUNTY CONSTRUCTION PLANS

# LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

September 2022





#### LEGEND EXISTING SINGLE POST SIGN EXISTING DOUBLE POST SIGN EXISTING BOLLARD EXISTING TREE-DECIDUOUS EXISTING EDGE OF PAVEMENT EXISTING CENTERLINE OF ROAD EXISTING EDGE OF DIRT ROAD EXISTING METAL BARRIER EXISTING GRADE BREAKS EXISTING RIGHT OF WAY EXISTING FENCE PROPOSED CENTERLINE CONSTRUCTION PROPOSED CUT LINE PROPOSED FILL LINE PROPOSED METAL BARRIER 000000 PROPOSED MINOR CONTOUR -(3124)-PROPOSED MAJOR CONTOUR PROPOSED RIPRAP PAD DS-XX DRAINAGE STRUCTURE REFERENCE No. (MB-XX) METAL BARRIER REFERENCE No.



### Length Of Project: 0.21 Miles





#### ABBREVIATIONS

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY	FIG.	FIGURE	OAE	OR APPROVED EQUAL
_	AND TRANSPORTATION OFFICIALS	FND.	FOUND	O.C.	ON CENTER
A.B.S.	ACRYLONITRILE-BUTADIENE-STYRENE	FL	FLOWLINE	O.D.	OUTER DIAMETER
A.C.	ASPHALTIC CONCRETE	FM	FORCE MAIN	OHE	OVERHEAD ELECTRICAL
ACI	AMERICAN CONCRETE INSTITUTE	FNPT	FEMALE NATIONAL PIPE THREAD	PE	PLAIN END
AC.	ACRE	FO	FIBER OPTIC	PRV	PRESSURE RELIEF VALVE
AC-FT	ACRE FEET	FT.	FEET	PSF	POUNDS PER SQUARE FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FY.	YIELD STRESS	PSI	POUNDS PER SQUARE INCH
ALUM	ALUMINUM	GA.	GAUGE	PVC	POLY VINYL CHLORIDE
ARV	AIR RELEASE VALVE	GALV.	GALVANIZED	Q100	100 YEAR STORM FLOW
ASTM	AMERICAN SOCIETY FOR TESTING AND	GPM	GALLONS PER MINUTE	R	RADIUS OR RANGE
7101111	MATERIALS	GSE	GUNDLE/SLT ENVIRONMENTAL, INC.	R.C.P.	REINFORCED CONCRETE PIPE
ARV	AIR RELIEF VALVE	GV	GATE VALVE	ROW	RIGHT OF WAY
AWG	AMERICAN WIRE GAUGE	HDPE	HIGH DENSITY POLYETHYLENE	RT	RIGHT
AWWA	AMERICAN WATER WORKS ASSOCIATION	HORIZ.	HORIZONTAL	SAS	SANITARY SEWER
BNSF	BURLINGTON NORTHERN AND SANTA FE	HP	HORSE POWER	SCH.	SCHEDULE
DIVOI	RAILROAD	HWY	HIGHWAY	SCS	SOIL CONSERVATION SERVICE
C OR CL	CENTERLINE	I.D.	INNER DIAMETER	SIDR	STANDARD DIMENSION RATIO
CFS	CUBIC FEET PER SECOND	IN.	INCH	SMH	SANITARY MANHOLE
CI	CAST IRON	INV	INVERT	SPECS.	SPECIFICATIONS
CLR.	CLEAR	J-BOX	JUNCTION BOX	SS SS	STAINLESS STEEL
CO.	CLEAN OUT	J-BOX	LENGTH	STA.	STATION
COMM.	COMMUNICATION	LEN	LENGTH	STA.	STANDARD
CONC.	CONCRETE	LF	LINEAR FEET	T.	TOWNSHIP
CONC.	CONTINUOUS	LT	LEFT	TC	TOP OF CONCRETE
CONT.	COUPLING	MAX.	MAXIMUM	TDH	TOTAL DYNAMIC HEAD
CP	CONTROL POINT	MH	MANHOLE	TELE.	TELEPHONE
DI		MIL	ONE THOUSANDTHS OF AN INCH		TYPICAL
	DUCTILE IRON	MIN.	MINIMUM	TYP.	
DIA.	DIAMETER	M.J.	MECHANICAL JOINT	UGE	UNDERGROUND ELECTRIC
E EA.	EAST OR EASTING	MNPT	MALE NATIONAL PIPE THREAD	UGT	UNDERGROUND TELEPHONE
	EACH			USGS	UNITED STATES GEOLOGICAL SURVEY
ED.	EDITION FOR EXAMPLE	N NG	NORTH OR NORTHING	V	VOLUME
E.G.	FOR EXAMPLE	NG NGS	NATURAL GAS	V100	VOLUME @ 100 YEAR RUN-OFF
ELEC.	ELECTRICAL		NATIONAL GEODETIC SURVEY	VERT.	VERTICAL
EP	EDGE OF PAVEMENT	N.O.A.A.	NATIONAL OCEANIC & ATMOSPHERIC	VG	VALLEY GUTTER
ELEV.	ELEVATION		ADMINISTRATION	W	WATER
EQ.	EQUAL	NM	NEW MEXICO	W/	WITH
ESMT.	EASEMENT	NMDOT	NEW MEXICO DEPARTMENT OF TRANSPORTATION	WL	WATERLINE
EX	EXISTING	NMED	NEW MEXICO ENVIRONMENT DEPARTMENT	WV	WATER VALVE
EXIST.	EXISTING	NO.	NUMBER	WWTP	WASTE WATER TREATMENT PLANT
FG	FINISHED GRADE	NTS	NOT TO SCALE	Z	ZENITH



#### INTENT OF PROJECT

LOW WATER CROSSING ALONG LANDFILL ROAD EAST OF HOBBS, NM, AND BEING APPROXIMATELY HALF-MILE SOUTH OF THE INTERSECTION OF SANGER ROAD AND LANDFILL ROAD.





LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO VICINITY MAP



SHEET NUMBER	INDEX OF SHEETS SHEET DESCRIPTION	SHEET
NUMBER	LEA COUNTY LANDELL DD DDAINAGE CDOCCING	COUNT
055150.4	LEA COUNTY - LANDFILL RD. DRAINAGE CROSSING	
SERIES 1	OOVED	4
1-1	COVER	1
1-2	VICINITY MAP	1
1-3	INDEX OF SHEETS	1
1-4	SUMMARY OF QUANTITIES	1
1-5	GENERAL NOTES	1 -
OFFICA A	SHEET SUBTOTAL=	5
SERIES 2	EVIOTINO TYPICAL OFOTION	
2-1	EXISTING TYPICAL SECTION	1
2-2	PROPOSED TYPICAL SECTIONS	1
2-3	SURFACING SCHEDULE	1
2-4	MISCELLANEOUS QUANTITIES	1
2-5	MISCELLANEOUS DETAILS	1
2-6	METAL BARRIER LAYOUT	1
055150.0	SHEET SUBTOTAL=	6
SERIES 3		
3-0 TO 3-00	SURVEY CONTROL - HORIZONTAL ALIGNMENT LAYOUT	2
3-1 TO 3-3	PLAN AND PROFILE - LANDFILL ROAD	3
3-4 TO 3-5	PLAN AND PROFILE - CHANNEL	2
	SHEET SUBTOTAL=	7
SERIES 5	PLANS PER CONTECH ENGINEERED SOLUTIONS, LLC	7
5-1 TO 5-7	ALBC ALUMINUM BOX CULVERT 19'0" SPAN X 6'1" RISE	7
5-8	ALBC SPECIFICATIONS	1
5-9	ALBC EXPRESS FUNDATION SAMPLES	1
5-10	ALBC ARMORTEC SAMPLES	1
055150 5	SHEET SUBTOTAL=	10
SERIES 7	OLON EAGE BETAILS AND NOTES	
7-1	SIGN FACE DETAILS AND NOTES	1
7-2 TO 7-3	SIGNING AND STRIPING PLANS	2
7-4	SIGNING AND STRIPING QUANTITIES	1
055150.40	SHEET SUBTOTAL=	4
SERIES 10		
10-1 TO 10-2	MAINLINE - STRUCTURE SECTION	2
	SHEET SUBTOTAL=	2
SERIES 11		
11-1 TO 11-2	EXISTING UTILITY PLANS	2
0=DIFC :-	SHEET SUBTOTAL=	2
SERIES 13	COUED OFFICE OF OTHER PROPERTY OF THE PROPERTY	
13-0	COVER - CROSS SECTIONS	1
13-1 TO 13-25	CROSS SECTIONS - LANDFILL ROAD	25
13-26 TO 13-51	CROSS SECTIONS - CHANNEL	26
	SHEET SUBTOTAL=	52
	SHEET TOTAL =	88



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	REVISIONS (OR CHANGE NOTICES)		



LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO INDEX OF SHEETS



	SUMMARY OF QUANTITIES				Γ		1		1			
ITEM	ITEM	UNIT	ROADWAY		CONSTRUCTION SIGNING		PERMANENT SIGNING		CONSTRUCTION ENGINEERING		PROJECT TOTAL	
NO.			ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
201000	CLEARING AND GRUBBING	ACRE	0.86								0.86	
203000	UNCLASSIFIED EXCAVATION	CU.YD.	1290								1290	
203100	BORROW	CU.YD.	3300								3300	
207000	SUBGRADE PREPARATION	SQ.YD.	4900								4900	
303180	BASE COURSE 8"	SQ.YD	4330								4330	
408100	PRIME COAT MATERIAL	SQ.YD.	3770								3770	
416106	MINOR PAVING TYPE-I, HMA SP-III	SQ.YD	3600								3600	
601110	REMOVAL OF SURFACING	SQ.YD	2700								2700	
602000	RIPRAP CLASS A	CU.YD.	375								375	
606001	SINGLE FACE W-BEAM GUARDRAIL	LIN.FT.	200								200	
606052	END TREATMENT TL-2 END TERMINAL	EACH	4								4	
606061	DRAINAGE STRUCTURE PROTECTION SYSTEM	LIN.FT.	200								200	
618000	TRAFFIC CONTROL MANAGEMENT	L.S.			LS						LS	
621000	MOBILIZATION	L.S.							LS		LS	
701000	PANEL SIGNS	SQ.FT.					60				60	
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LIN.FT.					108				108	
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.			LS						LS	
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	LIN.FT.					8800				8800	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.							LS		LS	
802000	POST CONSTRUCTION PLANS	L.S.							LS		LS	
950060	ALUMINUM BOX CULVERT 19'0" x 6'1"	EACH	1								1	



2			
NO.	DESCRIPTION	DATE	BY
	REVISIONS (OR CHANGE NOTICES)		
	lone		

LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO SUMMARY OF QUANTITIES



#### **GENERAL NOTES**

- 1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "2019 EDITION OF NEW MEXICO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION".
- CONSTRUCTION CENTERLINES AND STATIONING SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO INITIATING ANY
  CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT MODIFICATIONS TO THE PROJECT MANAGER FOR APPROVAL PRIOR TO
  COMMENCING ANY CONSTRUCTION ACTIVITIES. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID # 801000
  CONSTRUCTION STAKING BY THE CONTRACTOR.
- THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT PLANS, THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID # 802000 POST CONSTRUCTION PLANS.
- 4. CONTRACTOR SHALL PROVIDE SMOOTH RIDING TRANSITIONS AT ALL LIMITS OF NEW CONSTRUCTION AND CONNECTIONS.
- 5. THE MINIMUM "R" VALUE FOR THIS PROJECT IS 50, MATERIAL NOT MEETING THIS R-VALUE SHALL NOT BE ALLOWED TO REMAIN IN THE TOP 2' OF SUBGRADE.
- 6. SALVAGEABLE MATERIALS (SIGNAGE, FENCING, ETC.) FROM THIS PROJECT ARE TO BE HAULED AND STOCKPILED AT THE LEA COUNTY YARD. HAUL OF THIS MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE PROJECT MANAGER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR BID ITEM 601000 "REMOVAL OF STRUCTURES AND OBSTRUCTION".
- 7. ALL UNSALVAGEABLE MATERIALS SHALL BE HAULED TO AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE, SECURED AND COORDINATED WITH THE APPROPRIATE REGULATORY AGENCIES AS REQUIRED BY THE TERMS AND CONDITIONS OF SECTION 107 "LEGAL RELATIONS, ENVIRONMENTAL REQUIREMENTS AND RESPONSIBILITY TO THE PUBLIC" OF THE CURRENT NMDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE.

#### UTILITY NOTES

TWO WORKING DAYS PRIOR TO EXCAVATION, CONTRACTOR MUST CONTACT 1-800-ONE CALL, FOR LOCATION OF EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO AVOID DAMAGE TO ANY UTILITIES NOT SHOWN ON THE PLANS.

THE CONTRACTOR SHALL SUPPORT AND MAINTAIN ALL OPERATIONAL UTILITIES EXPOSED DURING SUBEXCAVATION, METAL BARRIER INSTALLATION AND OTHER CONSTRUCTION OPERATIONS. ALL CONSTRUCTION ACTIVITIES INVOLVING GAS, POWER, WATER METER, FIBER-OPTIC, AND/OR OTHER UTILITY LINES SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY PRIOR TO ANY DISTURBANCE, NO UTILITY SERVICE SHALL BE DISRUPTED WITHOUT FIRST NOTIFYING ALL AFFECTED PARTIES 48 HOURS IN ADVANCE.



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NO.	DESCRIPTION	DATE	BY
	REVISIONS (OR CHANGE NOTICES)		
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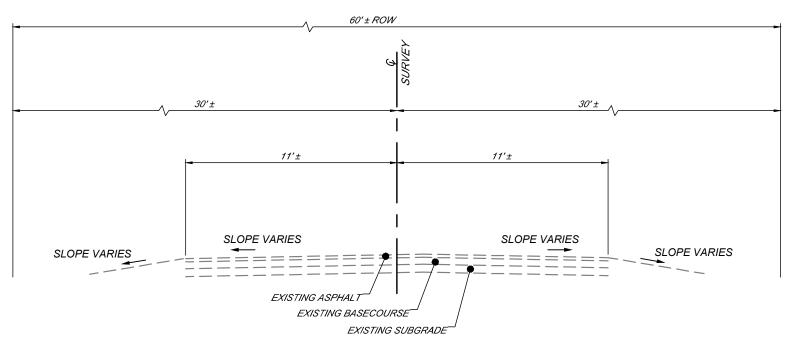
LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO

GENERAL NOTES



	PROJECT LENGTH									
STATION	TO	STATION	DESCRIPTION	REMARKS	DIST.	DIST.				
-		-	-	KEWAKNS	FT.	MILES				
28+50.00		39+50.00	LANDFILL RD.	FULL RECONSTRUCTION	1100.00	0.21				
	PROJECT TOTAL = 1100.00 0.21									

	S							
	LANDFI	LL RD.						
			NORTH BOUND	SOUTH BOUND				
POSTED SPEED			35	35				
DESIGN SPEED	45	45						
AADT (2021) ACTUAL	375	375						
AADT (2041) DESIGN			560	560				
DHV (2021)			45	45				
DHV (2041) DESIGN			67	67				
% HEAVY COMMERCIAL	(2021 - ACTUAL)		6.0%	6.0%				
% HEAVY COMMERCIAL	(2041 - DESIGN)		6.0%	6.0%				
	CUM ESALS	SN						
20 YR	1,679,000	4.18						
1 YR	N/A	2.82						



#### EXISTING TYPICAL SECTION - LANDFILL RD.

SCALE: 1"=5" LANDFILL RD. STA. 28+50.00 TO 39+50.00



4									
3									
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1									
NO. DESCRIPTION DATE BY									
REVISIONS (OR CHANGE NOTICES)									
	COUNTY new mexico								
	LANDFILL RD. LOW WATER CROSSING								

LEA COUNTY, NEW MEXICO **EXISTING TYPICAL** 



W-BEAM METAL

BARRIER

- SEE METAL BARRIER LAYOUT SHEETS 2 -6 1. METAL BARRIER FACE LOCATED 2' FROM EDGE OF SHOULDER.
- 2. 10:1 FLATTER FOR 5' MINIMUM WIDTH AT TL-2 END TERMINALS. SEE NMDOT STANDARD DRAWING 606-GR31-8/20 FOR REQUIREMENTS.

2.5" HOT MIX ASPHALT POST LEAVE-OUT REQUIRED SEE NMDOT STANDARD DRAWING 8" BASE COURSE SUBGRADE PREPARATION 606-GR31-5A/20

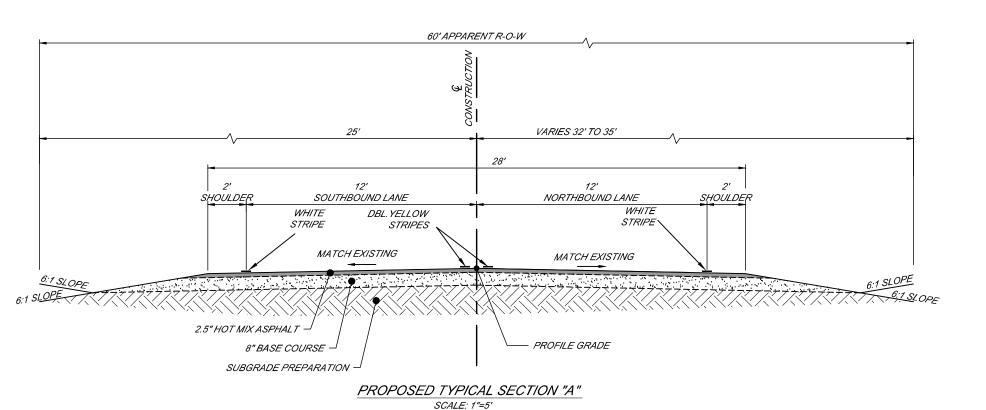
2' TYP.

#### METAL BARRIER PLACEMENT DETAIL

SCALE: 1"=5" STA. 31+61.47 TO STA. 34+36.84 (LT.) STA. 31+56.93 TO STA. 34+31.56 (RT.)

SHOULDER

LANE



LANDFILL RD. STA. 28+50.00 TO 39+50.00



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NO.	DESCRIPTION	DATE
	REVISIONS (OR CHANGE NOTICE	S)



LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO PROPOSED TYPICAL



							ITEM No.	207	000		303180		4	16106		#	#	4081	100
SURFACING SCHEDULE						RADE RATION	BASE	COURSE	≣ 8"	MINOR PAV	ING TYPI SPIII	E I, HMA	74-22 PG ASPHALT MAT'L	HYD-RATED LIME (HMA)	PRIME ( MATEI				
STATION	то	STATION	TYPICAL SECTION	TRANSITION SECTION (Y/N)	DESCRIPTION	LENGTH	WIDTH	AVG. WIDTH	AREA	AVG. WIDTH	DEPTH	AREA	AVR.WIDTH	DEPTH	AREA	WT.	WT.	AVG. WIDTH	AREA
				(1714)		FT.	FT.	FT.	SQ.YD.	FT.	IN.	SQ.YD.	FT.	IN.	SQ.YD.	TON	TON	FT.	SQ.YD.
		N	IAJOR RO	ADWAY															
28+50.00		39+50.00	A		LANDFILL ROAD	1100.00	28.00	39.94	4881.56	35.39	8.00	4325.44	29.42	2.50	3595.78	31.56	4.93	30.84	3769.33
					PROJECT TOTAL				4881.56			4325.44			3595.78	31.56	4.93		3769.33
					PROJECT USE				4900			4330			3600				3770

ESTIMATED SURFACING FACTORS									
ITEM	74-22 PERFORMANCE GRADED ASPHALT MATERIAL	UNIT WEIGHT	HYDRATED LIME	PRIME SECT. 408	UNIT WEIGHT				
	(BY WEIGHT OF TOTAL MIX)	LBS./ CU. YD.	(BY WEIGHT OF TOTAL MIX)	GAL./ SQ.YD.	GAL/ TON				
HMA SPIII	6.40% *	3950 *	1.0% *						
PRIME COAT MATERIAL				0.45 ***	240.00				
LIME TREATED SUBGRADE		3100 *	5.0% *						
BASE COURSE (TYPE I)		3800 *							



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NO.	DESCRIPTION	DATE



LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO SURFACING SCHEDULE



							606052	606061	
BARRIER SCHEDULE (STATIONS INCLUDE END TREATMENTS AND TRANSITIONS: SEE METAL BARRIER LAYOUT FOR END TREATMENT LENGTHS)						SINGLE FACE W-BEAM GUARDRAIL	END TREATMENT TL-2 END TERMINAL	DRAINAGE STRUCTURE PROTECTION SYSTEM	REMARKS
LABEL	BEGIN	INING	ENDING LOC.		LIN.FT.	EACH LIN.FT.	LIN.FT.		
REFERENCE	STATION	OFF. (FT)	STATION	OFF. (FT)	LOC.	LIIN.F1.	LACIT	LIN.F1.	
MB- 01	31+61.81	16	34+36.81	16	LT	100.00	2	100	
MB- 02	31+56.59	16	34+31.59	16	RT	100.00	2	100	
	_	PROJECT TOTAL		200.00	4	200			
				P	ROJECT USE	200	4	200	

NOTE: THE ASPHALT THICKNESS AT METAL BARRIER LOCATIONS IS LESS THAN SEVEN INCHES. STANDARD DRAWING 606-GR31-5A/20 SHALL BE USED TO CONSTRUCT LEAVE OUTS.

FARTH	WORK	203000			203100	
	MARY	UNCLASSIFIED EXCAVATION	EMBANKMENT	NET	BORROW	REMARKS
STATION T	O STATION	CU.YD.	CU.YD	CU.YD	CU.YD.	
28+50.00	39+50.00	1285.39	4582.33	-3296.94	3296.94	LANDFILL ROAD
PR	OJECT TOTAL	1285		-3296.94	3296.94	
	PROJECT USE	1290			3300	

#### NOTE:

- 1. CONTRACTOR TO SPEND EXCESS MATERIAL THROUGHOUT EXTENTS OF WORK ZONE TO FLATTEN SLOPES AS DIRECTED BY PROJECT MANAGER. THIS WORK SHALL BE KEPT WITHIN THE RIGHT OF WAY LIMITS.
- 2. THIS WORK WILL BE PAID FOR UNDER ITEM 203000 UNCLASSIFIED EXCAVATION.
- 3. NO PAYMENT WILL BE MADE FOR DOUBLE HANDLING FOR EXCESS MATERIAL USED AS EMBANKMENT.
- 4. BORROW / EMBANKMENT MATERIAL FOR SUB EXCAVATION IF NEEDED SHALL BE INCLUDED IN THE UNIT PRICE FOR SUBEXCAVATION.
- 5. EMBANKMENT SHALL BE MEASURED, AND BORROW SHALL BE MEASURED AND PAID BY THE FINAL COMPACTED IN PLACE VOLUME THEREFORE NO SHRINAKGE QUANTITY WILL BE MEASURED OR PAID.
- 6. REFER TO TRAFFIC CONTROL FOR PROJECT PHASING.
- 7. CONTRACTOR SHALL CROSS-SECTION AFTER REMOVAL OF SURFACING. CROSS-SECTIONING OF ROADWAY SHALL BE INCIDENTAL TO REMOVAL OF SURFACING.

REMOVA	L OF SUR	FACINO	SCHEI	DULE	601110  REMOVAL OF SURFACING	REMARKS
STATION TO	LANE	LOC.	LENGTH	AVG. WIDTH	AREA	
STATION	LANE	LOC.	FT.	FT.	SQ.YD.	
B.O.P TO E.O.P.	NB/SB	LT./RT.	1100.00	22	2688.89	
-				PROJECT TOTAL	2689	
				PROJECT USE	2700	

	LUMP SUM ITEMS									
ITEM NO.	DESCRIPTION	UNIT	CATEGORY							
201000	CLEARING AND GRUBBING	L.S.	ROADWAY							
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	CONSTR. ENG.							
621000	MOBILIZATION	L.S.	ROADWAY							
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.	CONSTR. SIGN.							
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	CONSTR. ENG.							
802000	POST CONSTRUCTION PLANS	L.S.	CONSTR. ENG.							

			201000						
CLEA	CLEARING AND GRUBBING								
		T							
STATION T	O STATION	LOC.	ACRE						
28+50.00	39+50.00	LT. / RT.	0.86						
		PROJECT TOTAL	0.86						
		PROJECT USE	0.86						



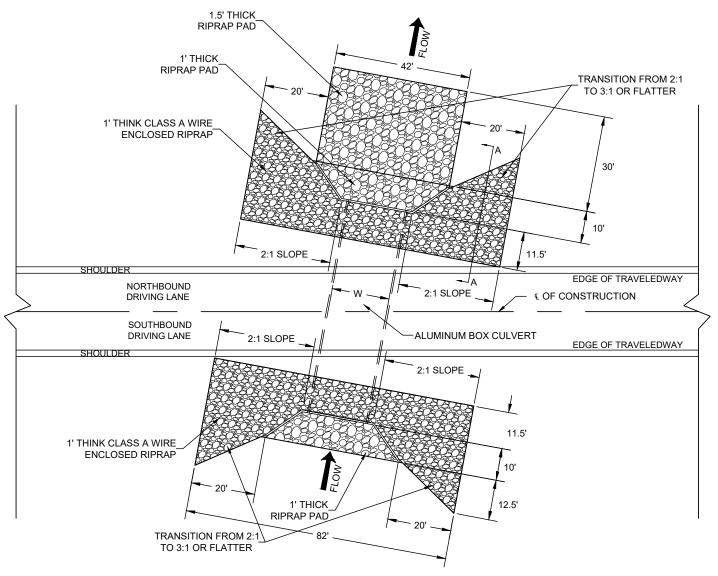
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	REVISIONS (OR CHANGE NOTICES)	)	



LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO MISCELLANEOUS QUANTITIES

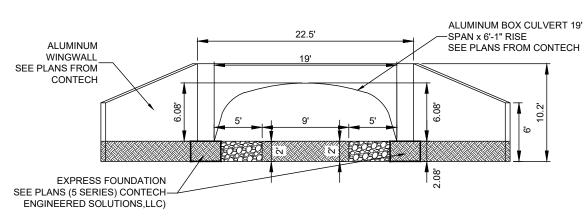


	RIPRAP		TIES						602000
	KIFKAF	QUANTI	IILO						RIP RAP CLASS A
DS-#	STATION	W	HT	OL	SL	UPSTREAM	DOWNSTREAM	TOE	KIF KAF CLASS A
D3-#	STATION	FT.	FT.	FT.	FT.	CU. YD	CU. YD.	CU. YD.	CU. YD.
DS- 1	32+96.19	19.0	10.2	22.5	20.1	151	222	VARIES	373.00
								PROJECT TOTAL	373
								PROJECT USE	375

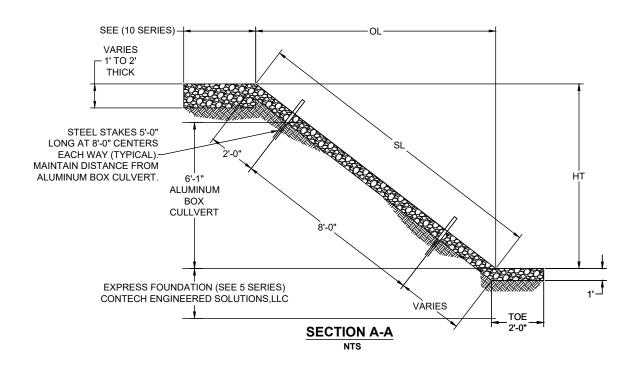


# SLOPE PROTECTION WIRE ENCLOSED RIPRAP CLASS A (AROUND AND ABOVE WINGWALLS & HEADWALLS) SCALE: NTS

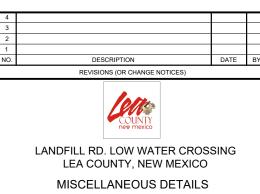
SEE NMDOT STANDARD DRAWINGS 602-01-1/1, 602-02-1/1

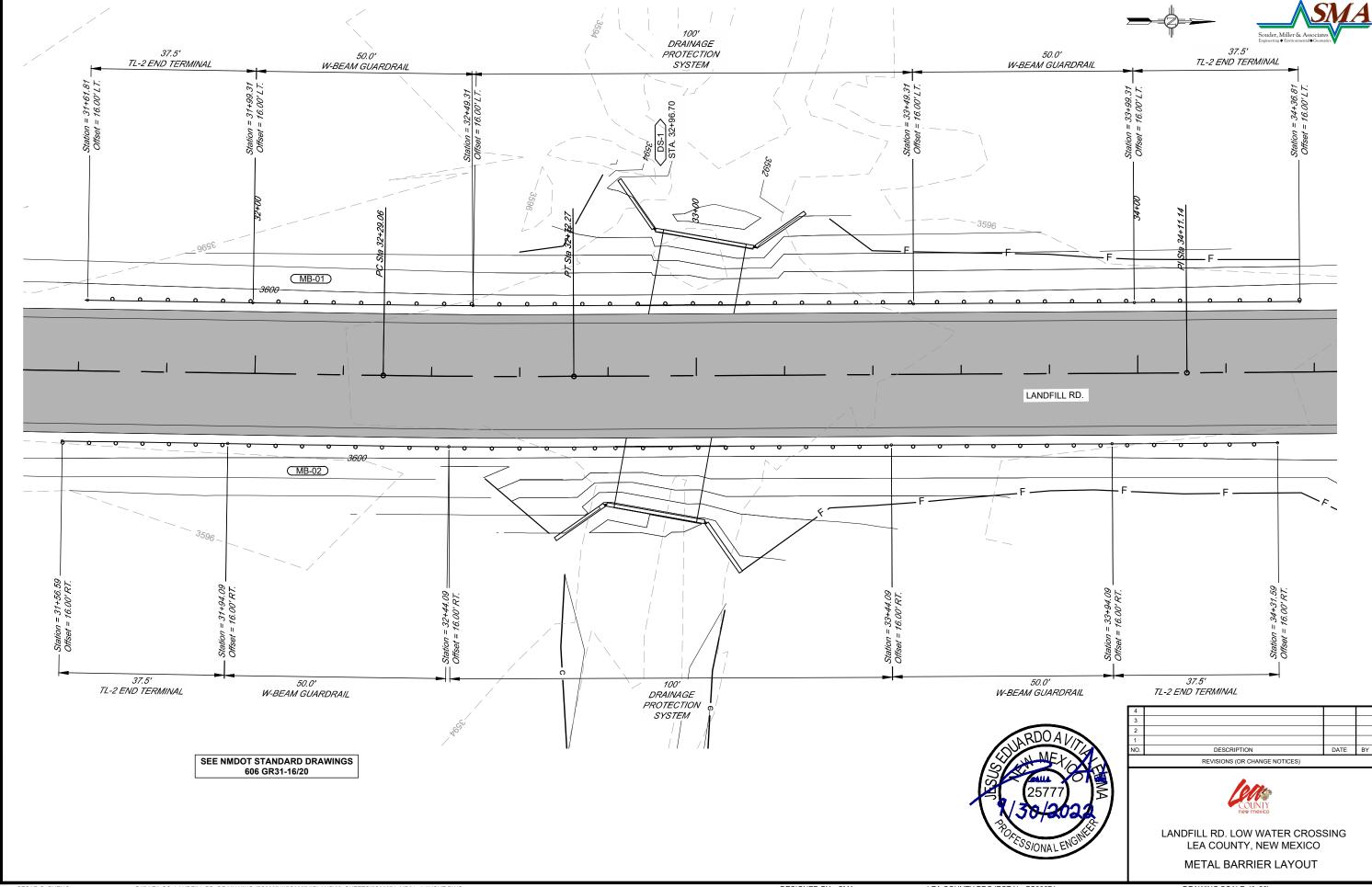


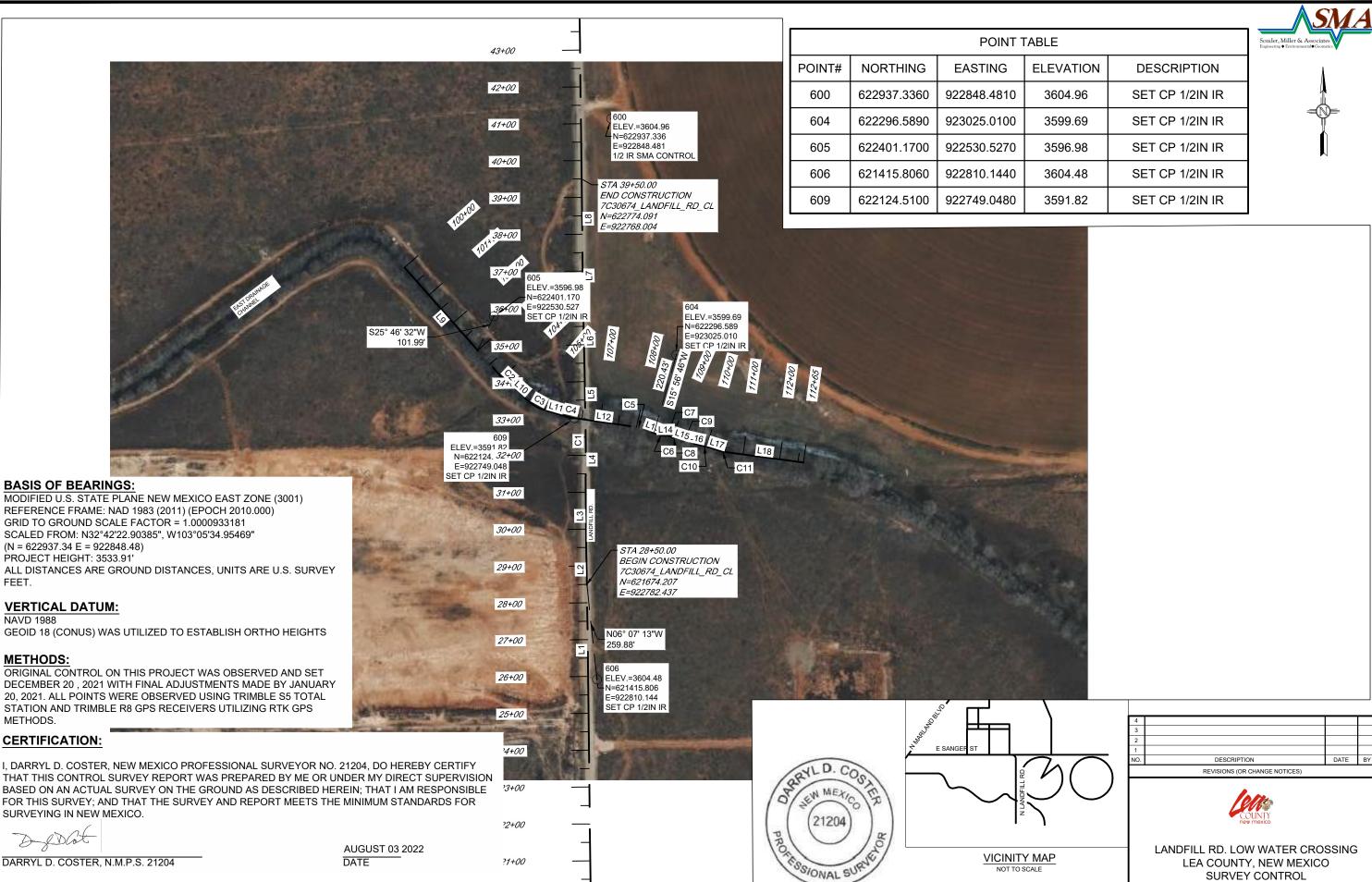
RIPRAP INSIDE ALUMINUM BOX DETAIL
SCALE: NTS











NAVD 1988

**METHODS:** 

METHODS.



	7C30674_LANDFILL_RD_CL									
Number	Length	Bearing	Radius	Start Point	End Point	Start Station	End Station			
C1	43.203	N00° 29' 41.42"W	2019.607	(922779.4218,622053.2514)	(922779.0487,622096.4524)	32+29.06	32+72.27			
L1	1102.179	N00° 39' 04.83"W		(922797.0549,620439.1674)	(922784.5255,621541.2754)	16+14.87	27+17.05			
L2	222.034	N00° 54' 00.58"W		(922784.5255,621541.2754)	(922781.0374,621763.2822)	27+17.05	29+39.09			
L3	198.664	N00° 31' 12.59"W		(922781.0374,621763.2822)	(922779.2338,621961.9382)	29+39.09	31+37.75			
L4	91.313	N00° 07' 04.79"E		(922779.2338,621961.9382)	(922779.4218,622053.2514)	31+37.75	32+29.06			
L5	138.869	N01° 06' 27.62"W		(922779.0487,622096.4524)	(922776.3642,622235.2950)	32+72.27	34+11.14			
L6	169.472	N01° 11' 46.83"W		(922776.3642,622235.2950)	(922772.8259,622404.7299)	34+11.14	35+80.61			
L7	158.781	N00° 50' 28.55"W		(922772.8259,622404.7299)	(922770.4946,622563.4934)	35+80.61	37+39.39			
L8	536.098	N00° 40' 38.91"W		(922770.4946,622563.4934)	(922764.1558,623099.5542)	37+39.39	42+75.49			

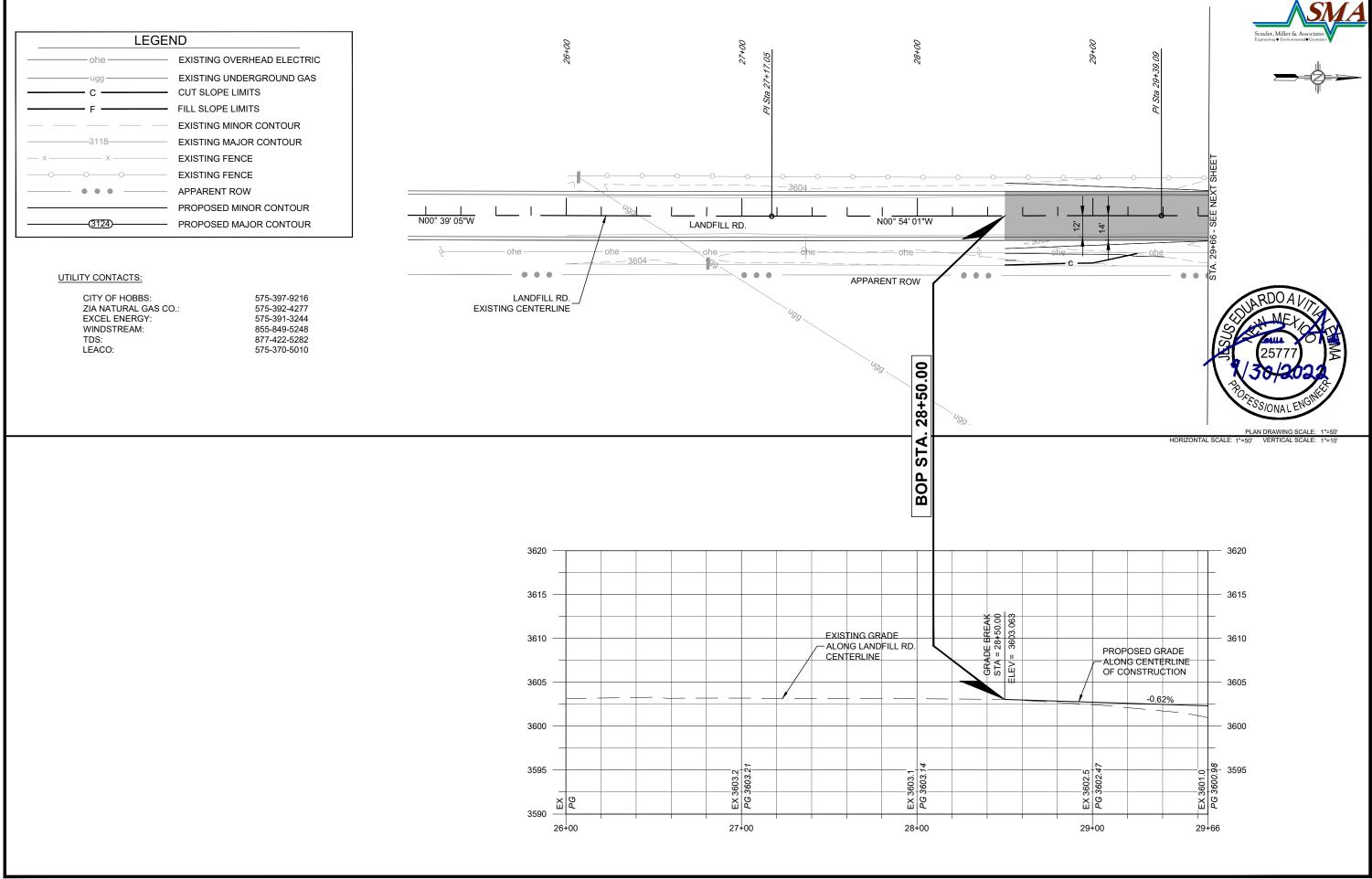
				7C30674_Drain01			
Number	Length	Bearing	Radius	Start Point	End Point	Start Station	End Station
C2	20.615	S45° 13' 04.31"E	157.898	(922548.8042,622238.4893)	(922563.4261,622223.9781)	103+94.55	104+15.17
C3	45.724	S61° 14' 26.44"E	106.648	(922625.9820,622169.5188)	(922665.7599,622147.6874)	104+98.11	105+43.83
C4	30.332	S77° 40' 35.83"E	209.214	(922720.8968,622131.3795)	(922750.5038,622124.9114)	106+01.33	106+31.66
C5	36.593	S76° 00' 13.15"E	179.926	(922902.2045,622103.1321)	(922937.6498,622094.2970)	107+84.92	108+21.51
C6	18.614	S80° 15' 20.85"E	52.909	(922974.7371,622080.9281)	(922992.9877,622077.7940)	108+60.94	108+79.55
C7	7.266	S77° 52' 05.30"E	16.698	(922999.7265,622077.8333)	(923006.7745,622076.3183)	108+86.29	108+93.55
C8	27.198	S68° 20' 19.07"E	200.000	(923006.7745,622076.3183)	(923032.0320,622066.2868)	108+93.55	109+20.75
C9	9.938	S74° 43' 34.30"E	114.258	(923041.1979,622063.3500)	(923050.7819,622060.7328)	109+30.38	109+40.32
C10	16.585	S74° 50' 32.44"E	200.000	(923100.6229,622049.4257)	(923116.6264,622045.0903)	109+91.42	110+08.01
C11	9.688	S77° 24' 31.59"E	56.158	(923145.6356,622035.9252)	(923155.0788,622033.8159)	110+38.43	110+48.12
L9	394.554	S41° 28' 39.42"E		(922287.4801,622534.0951)	(922548.8042,622238.4893)	100+00.00	103+94.55
L10	82.940	S48° 57' 29.20"E		(922563.4261,622223.9781)	(922625.9820,622169.5188)	104+15.17	104+98.11
L11	57.498	S73° 31' 23.69"E		(922665.7599,622147.6874)	(922720.8968,622131.3795)	105+43.83	106+01.33
L12	153.256	S81° 49' 47.97"E		(922750.5038,622124.9114)	(922902.2045,622103.1321)	106+31.66	107+84.92
L13	39.423	S70° 10' 38.34"E		(922937.6498,622094.2970)	(922974.7371,622080.9281)	108+21.51	108+60.94
L14	6.739	N89° 39' 56.64"E		(922992.9877,622077.7940)	(922999.7265,622077.8333)	108+79.55	108+86.29
L15	9.625	S72° 14' 03.86"E		(923032.0320,622066.2868)	(923041.1979,622063.3500)	109+20.75	109+30.38
L16	51.108	S77° 13' 04.73"E		(923050.7819,622060.7328)	(923100.6229,622049.4257)	109+40.32	109+91.42
L17	30.423	S72° 28' 00.15"E		(923116.6264,622045.0903)	(923145.6356,622035.9252)	110+08.01	110+38.43
L18	217.015	S82° 21' 03.03"E		(923155.0788,622033.8159)	(923370.1628,622004.9298)	110+48.12	112+65.13

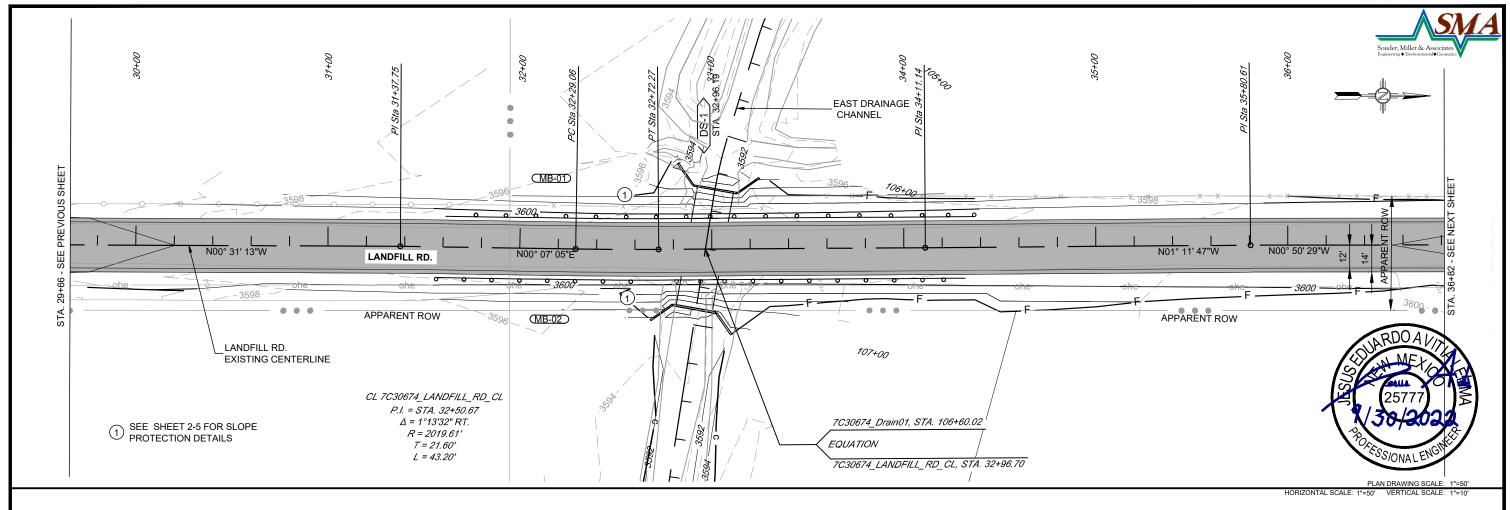


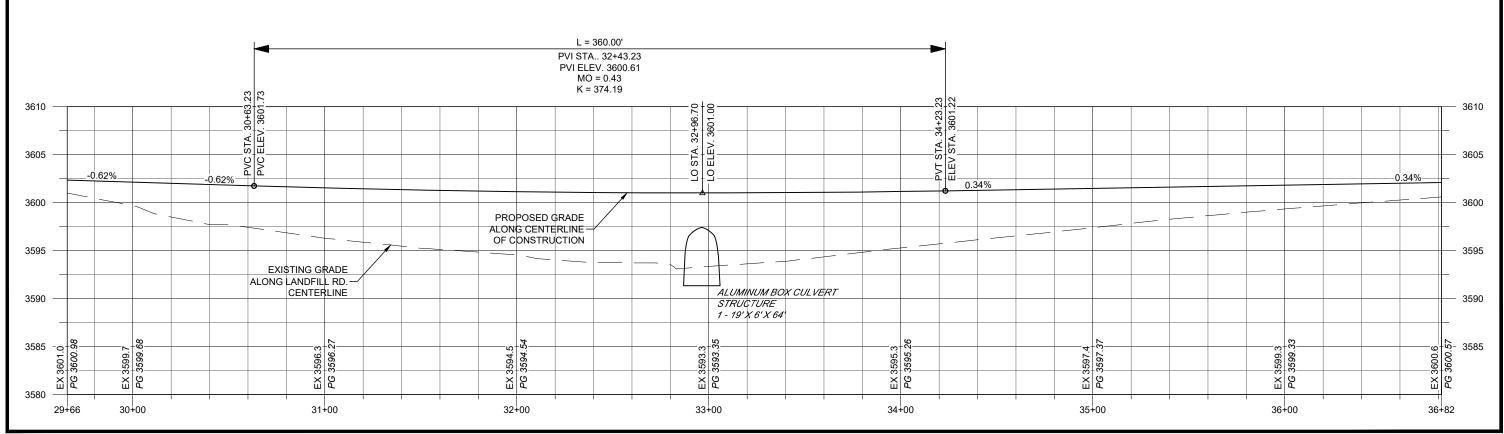
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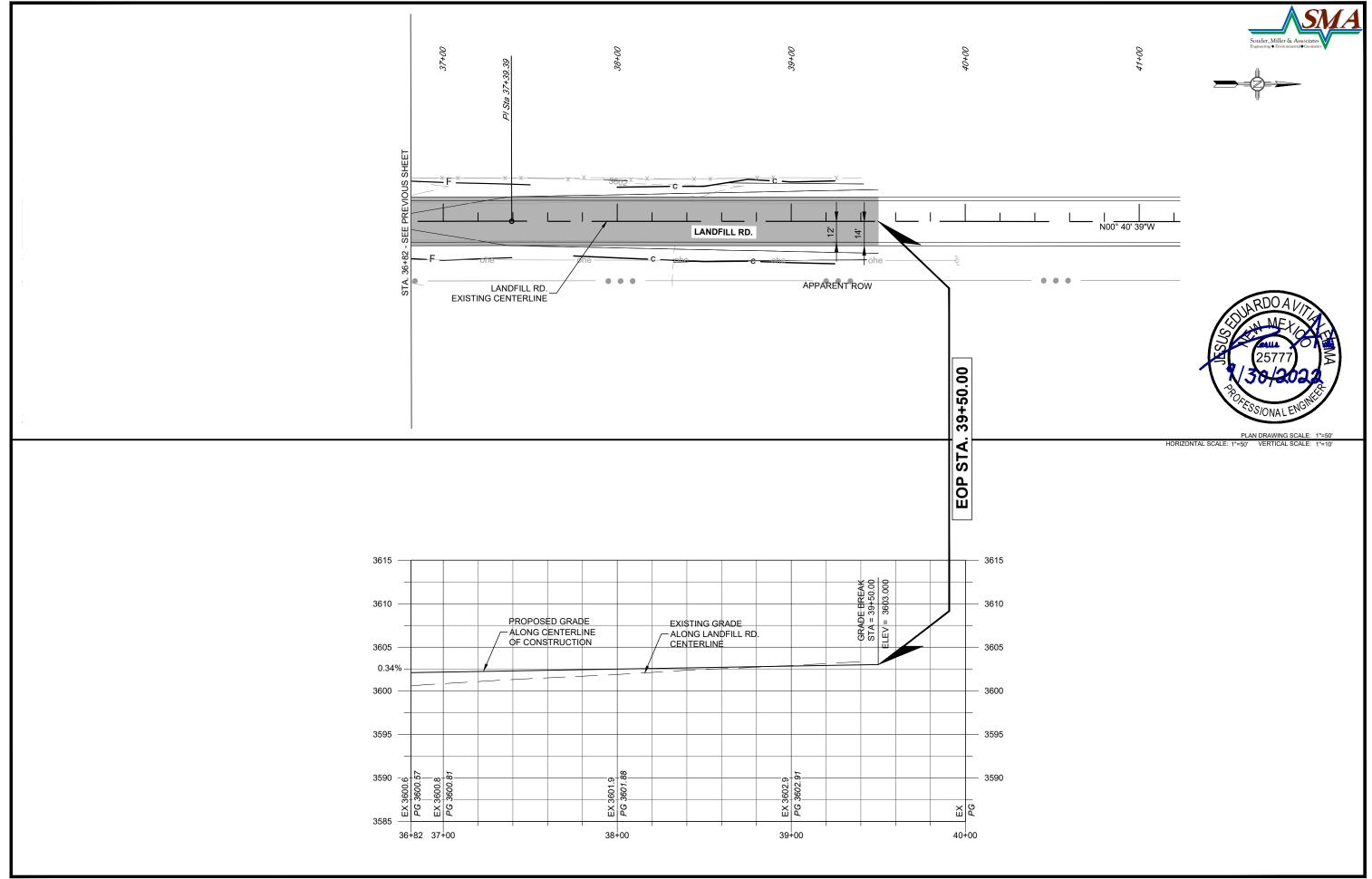


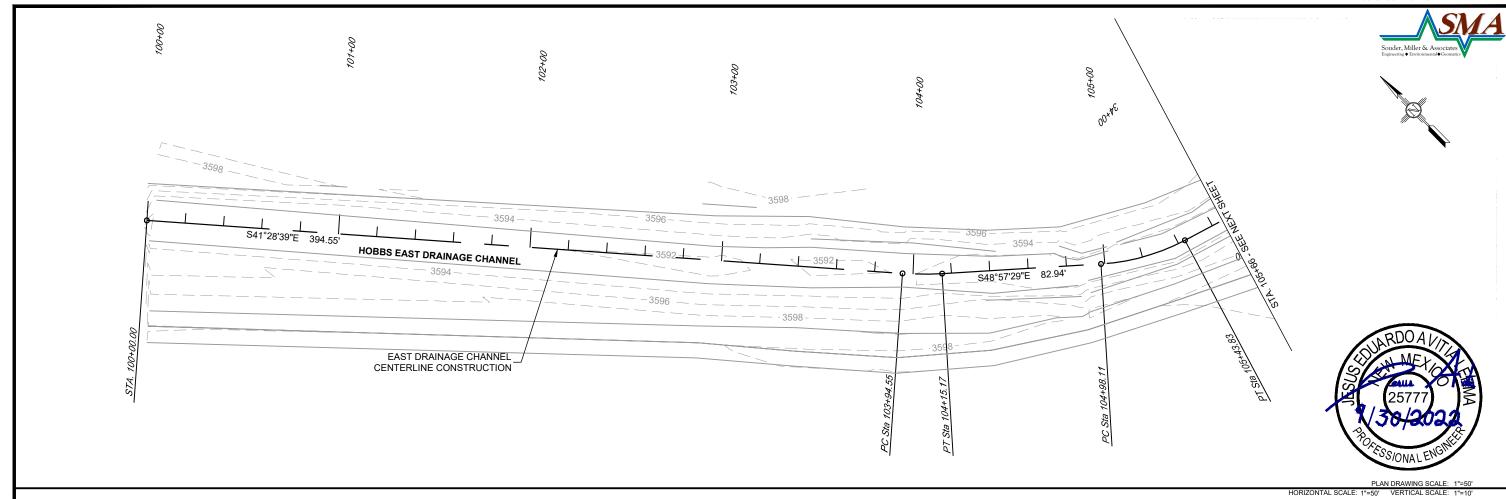
LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO SURVEY CONTROL - HORIZONTAL ALIGNMENT LAYOUT

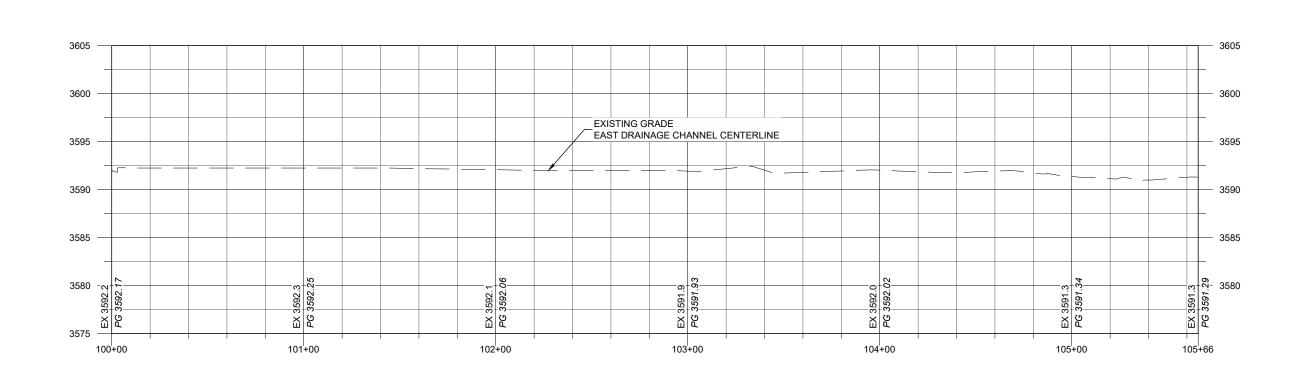


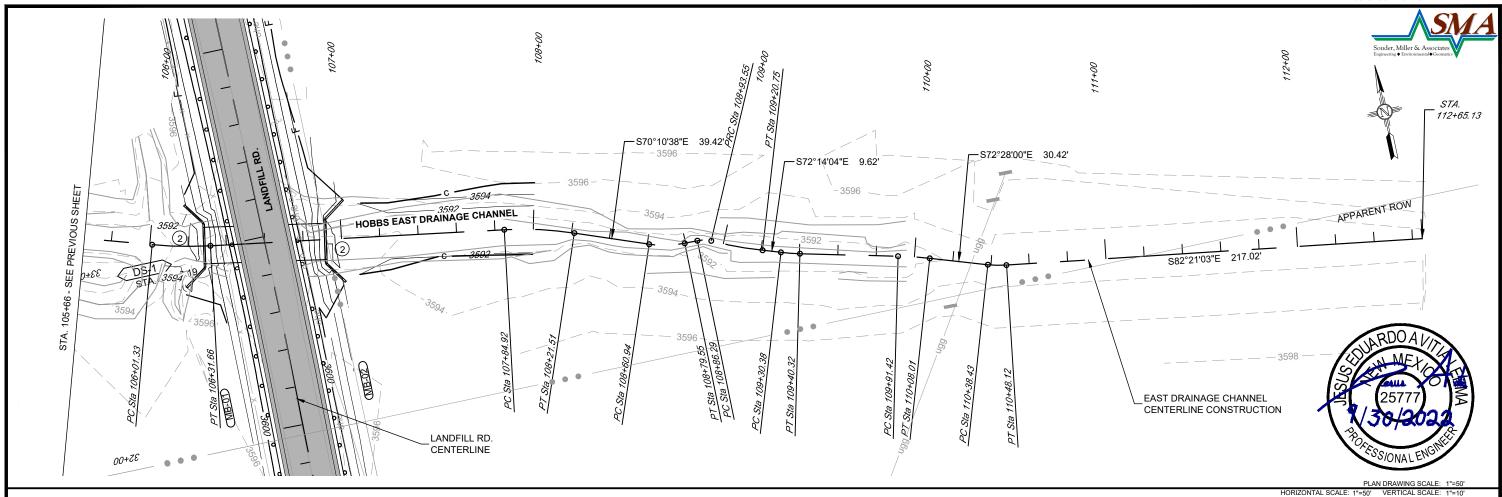




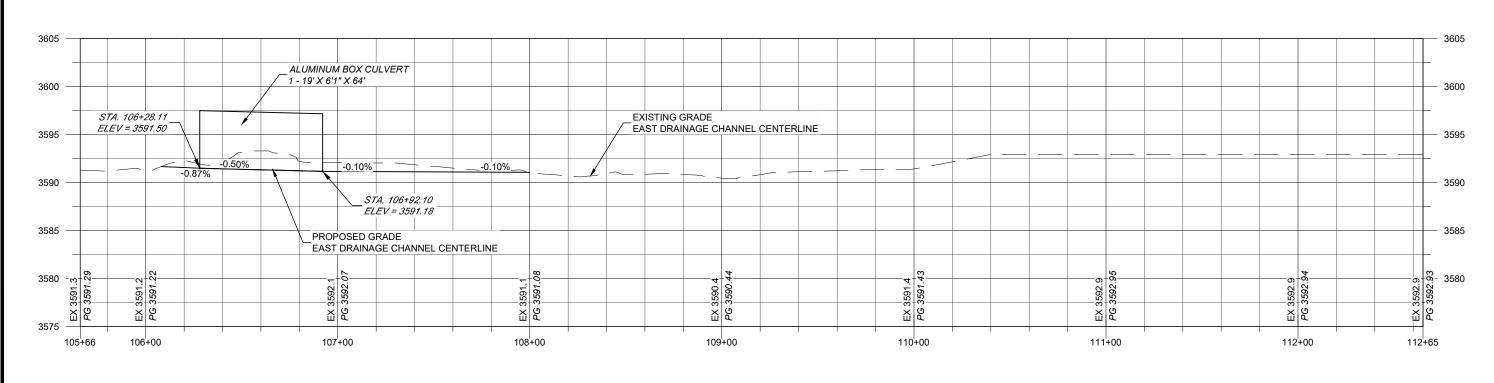












#### PROJECT SUMMARY

#### LOCAL BRIDGE CONSULTANT

- NAME = Alex Powers
- EMAIL = Alex.Powers@conteches.com
- PHONE NUMBER = 303-222-9507

#### STRUCTURE DETAILS

- STRUCTURE #43
- STRUCTURE SPAN = 19'-0"
- STRUCTURE RISE = 6'-1"
- LOAD = HL-93
- SHELL TYPE = R1
- MIN COVER = 2.8 (ft)
- MAX COVER = 4 (ft)

#### **FOUNDATIONS**

- FOUNDATION TYPE = FULL METAL INVERT
- THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING CAPACITY OF 4000 PSF.

#### **INLET HEADWALL**

- INLET HEADWALL TYPE = METAL
- INLET HEADWALL HEIGHT = 10.17 FT.
- INLET HEADWALL WIDTH = 22.5 FT.
- INLET HEADWALL TRENCH = 2 FT.

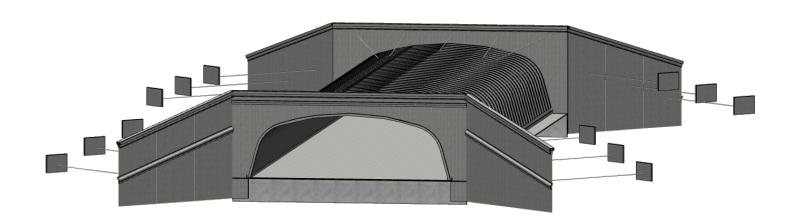
#### **OUTLET HEADWALL**

- OUTLET HEADWALL TYPE = METAL
- OUTLET HEADWALL HEIGHT = 10.17 FT.
- OUTLET HEADWALL WIDTH = 22.5 FT.
- OUTLET HEADWALL TRENCH = 2 FT.

#### WINGWALLS

- WW1 ANGLE = 45 DEG.
- WW1 LENGTH = 13.5 FT.
- WW1 HIGH HEIGHT = 10.17 FT.
- WW1 LOW HEIGHT = 6.00 FT.
- WW2 ANGLE = 45 DEG.
- WW2 LENGTH = 13.5 FT.
- WW2 HIGH HEIGHT = 10.17 FT.
- WW2 LOW HEIGHT = 6.00 FT.
- WW3 ANGLE = 45 DEG.
- WW3 LENGTH = 13.5 FT.
- WW3 HIGH HEIGHT = 10.17 FT.
- WW3 LOW HEIGHT = 6.00 FT.
- WW4 ANGLE = 45 DEG.
- WW4 LENGTH = 13.5 FT. WW4 HIGH HEIGHT = 10.17 FT.
- WW4 LOW HEIGHT = 6.00 FT.

# ALBC ALUMINUM BOX CULVERT DYO ALBC



#### <u>NOTES</u>

- 1. THIS BRIDGE HAS BEEN DESIGNED FOR GENERAL SITE CONDITIONS. THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR THE STRUCTURE'S SUITABILITY TO THE EXISTING SITE CONDITIONS AND FOR THE HYDRAULIC EVALUATION -- INCLUDING SCOUR AND CONFIRMATION OF SOIL CONDITIONS.
- 2. PRIOR TO CONSTRUCTION, CONTRACTOR MUST VERIFY ALL ELEVATIONS SHOWN THROUGH THE ENGINEER.
- 3. ONLY CONTECH ENGINEERED SOLUTIONS LLC, THE ALUMINUM BOX CULVERT (ALBC) APPROVED MANUFACTURER IN THE PROJECT STATE, MAY PROVIDE THE STRUCTURE DESIGNED IN ACCORDANCE WITH THESE PLANS.
- . THIS DYOB DRAWING IS A CONCEPTUAL DESIGN. PLEASE WORK WITH YOUR LOCAL BRIDGE CONSULTANT FOR FURTHER SOLUTION DEVELOPMENT AND PRICING.

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BY

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DYOB

DYO16850 LANDFILL ROAD LOW WATER CROSSING ALBC

LOVINGTON,NM
ALBC ALUMINUM BOX CULVERT 19'-0" SPAN X 6'-1" RISE

PROJECT No.: 10813	DYO No.: 16850		DATE: 05/10	0/2022
DESIGNED:		DRAW	N:	
DYO			DYC	)
CHECKED:		APPR	OVED:	
DYO			DYC	)
SHEET NO.:	D1	O	F	D10

#### 1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS ALL STANDARDS REFER TO LATEST EDITION UNLESS OTHERWISE NOTED.
- 1.1.1 ASTM B-864 "STANDARD SPECIFICATION FOR CORRUGATED ALUMINUM BOX CULVERTS" (AASHTO DESIGNATION M-219).
- 1.1.2 AASHTO LRFD SPECIFICATION FOR HIGHWAY BRIDGES SECTION 12 DIVISION I DESIGN.
- 1.1.3 AASHTO LRFD SPECIFICATION FOR HIGHWAY BRIDGES SECTION 26 DIVISION II CONSTRUCTION.

#### 1.2 DEFINITIONS

- 1.2.1 OWNER IN THESE SPECIFICATIONS THE WORD "OWNER" SHALL MEAN XXXX
- 1.2.2 ENGINEER IN THESE SPECIFICATIONS THE WORD "ENGINEER" SHALL MEAN THE ENGINEER OF RECORD OR OWNER'S DESIGNATED ENGINEERING REPRESENTATIVE.
- 1.2.3 MANUFACTURER IN THESE SPECIFICATIONS THE WORD "MANUFACTURER" SHALL MEAN CONTECH ENGINEERED SOLUTIONS, LLC 800-338-1122.
- 1.2.4 CONTRACTOR IN THESE SPECIFICATIONS THE WORD "CONTRACTOR" SHALL MEAN THE FIRM OR CORPORATION UNDERTAKING THE EXECUTION OF ANY INSTALLATION WORK UNDER THE TERMS OF THESE SPECIFICATIONS.
- 1.2.5 APPROVED IN THESE SPECIFICATIONS THE WORD "APPROVED" SHALL REFER TO THE APPROVAL OF THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE
- 1.2.6 AS DIRECTED IN THESE SPECIFICATIONS THE WORDS "AS DIRECTED"
  SHALL REFER TO THE DIRECTIONS TO THE CONTRACTOR FROM THE OWNER
  OR HIS DESIGNATED REPRESENTATIVE.

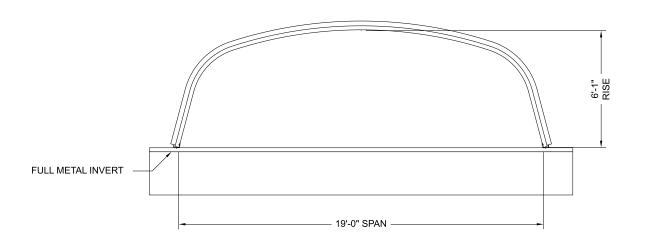
#### 2.0 GENERAL CONDITIONS

- 2.1 THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL AND EQUIPMENT AND PERFORM ALL WORK AND SERVICES EXCEPT THOSE SET OUT AND FURNISHED BY THE OWNER, NECESSARY TO COMPLETE IN A SATISFACTORY MANNER THE SITE PREPARATION, EXCAVATION, FILLING, COMPACTION, GRADING AS SHOWN ON THE PLANS AND AS DESCRIBED THEREIN. THIS WORK SHALL CONSIST OF ALL MOBILIZATION CLEARING AND GRADING, GRUBBING, STRIPPING, REMOVAL OF EXISTING MATERIAL UNLESS OTHERWISE STATED, PREPARATION OF THE LAND TO BE FILLED, FILLING OF THE LAND, SPREADING AND COMPACTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES, SLOPES, AND SPECIFICATIONS. THIS WORK IS TO BE ACCOMPLISHED UNDER THE OBSERVATION OF THE OWNER OR HIS DESIGNATED REPRESENTATIVE
- 2.2 PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL EXAMINE, INVESTIGATE AND INSPECT THE CONSTRUCTION SITE AS TO THE NATURE AND LOCATION OF THE WORK, AND THE GENERAL AND LOCAL CONDITIONS AT THE CONSTRUCTION SITE, INCLUDING WITHOUT LIMITATION, THE CHARACTER OF SURFACE OR SUBSURFACE CONDITIONS AND OBSTACLES TO BE ENCOUNTERED ON AND AROUND THE CONSTRUCTION SITE AND SHALL MAKE SUCH ADDITIONAL INVESTIGATION AS HE MAY DEEM NECESSARY FOR THE PLANNING AND PROPER EXECUTION OF THE WORK.

IF CONDITIONS OTHER THAN THOSE INDICATED ARE DISCOVERED BY THE CONTRACTOR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY. THE MATERIAL WHICH THE CONTRACTOR BELIEVES TO BE A CHANGED CONDITION SHALL NOT BE DISTURBED SO THAT THE OWNER CAN INVESTIGATE THE CONDITION.

- 2.3 THE CONSTRUCTION SHALL BE PERFORMED UNDER THE DIRECTION OF THE ENGINEER.
- 2.4 ALL ASPECTS OF THE STRUCTURE DESIGN AND SITE LAYOUT INCLUDING FOUNDATIONS, BACKFILL, END TREATMENTS AND NECESSARY SCOUR CONSIDERATION SHALL BE PERFORMED BY THE ENGINEER.

ANY INSTALLATION GUIDANCE PROVIDED HEREIN SHALL BE ENDORSED BY THE ENGINEER OR SUPERSEDED BY THE ENGINEER'S PLANS AND SPECIFICATIONS.



**CROSS SECTION** 

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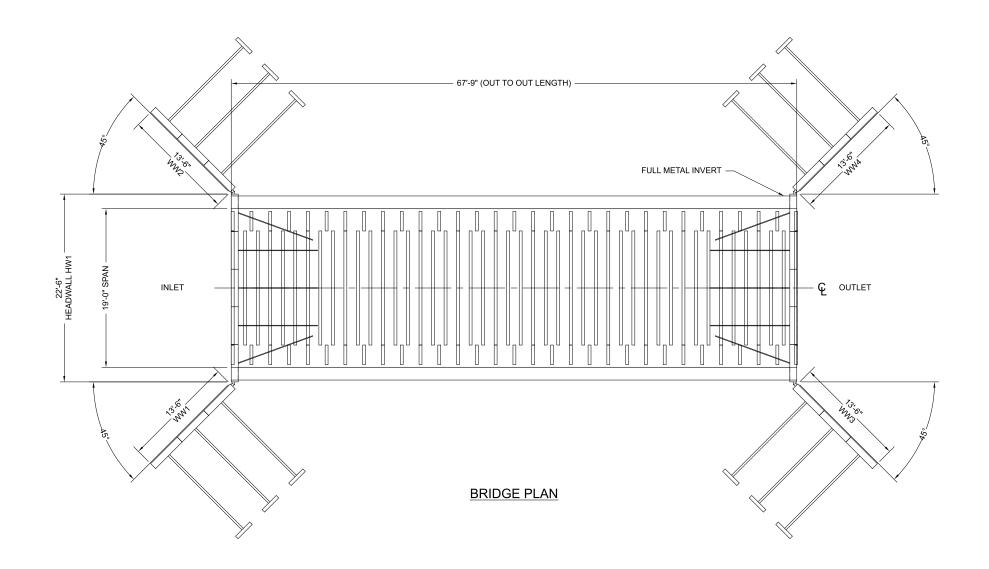
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DYOB DRAWING

PROJECT No.: 10813	DYO N		DATE: 05/10/2022
DESIGNED:		DRAW	<sup>/N:</sup> DYO
CHECKED: DYO		APPR	OVED: DYO
SHEET NO.:	D2	2 0	<sub>F</sub> D10



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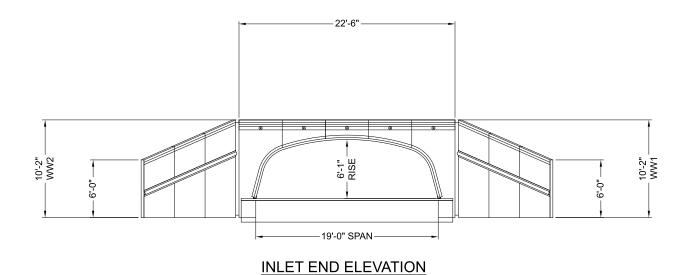
ENGINEERED SOLUTIONS LLC
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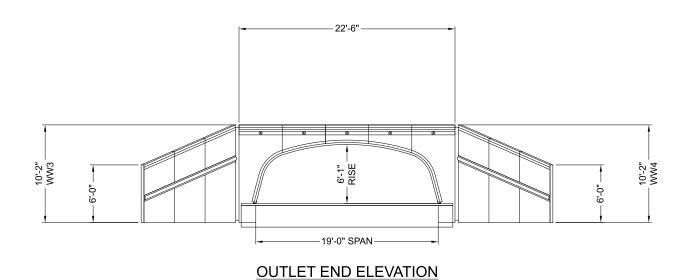
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX



DYOB DRAWING

PROJECT No.: 10813	DYO N			
DESIGNED: DYO		DRAW	'N: DY	0
CHECKED: DYO		APPR	OVED:	0
SHEET NO.:	D3	<b>3</b> o	F	D10





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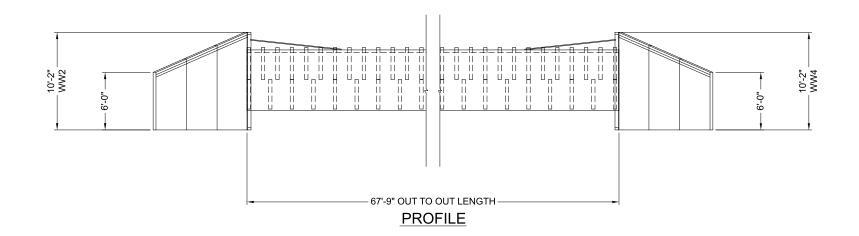
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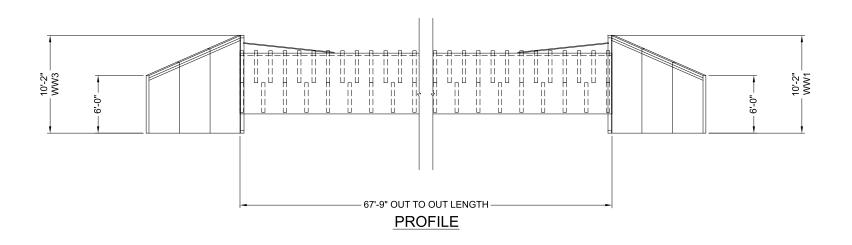
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX



DYOB DRAWING

PROJECT No.: 10813	DYO N			
DESIGNED: DYO		DRAW	'N: DY	0
CHECKED: DYO		APPR	OVED:	0
SHEET NO.:	D4	<b>.</b> o	F	D10





PRELIMINARY NOT FOR CONSTRUCTION

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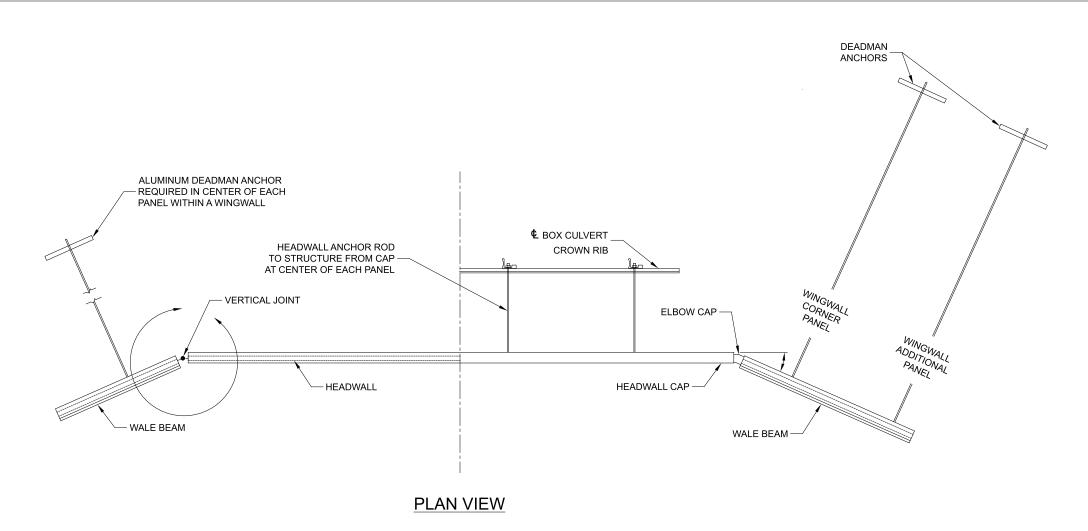
ENGINEERED SOLUTIONS LLC

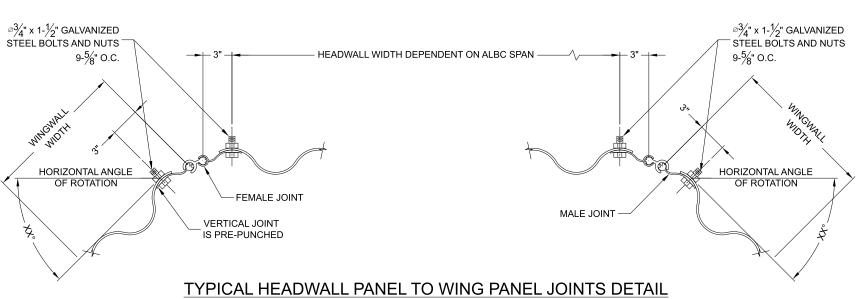
www.ContechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX STRUCTURAL PLATE

DYOB DRAWING

PROJECT No.: 10813	DYO N		DATE:	10/2022
DESIGNED: DYO		DRAW	<sup>/N:</sup> DY	0
CHECKED: DYO		APPR	OVED:	0
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PRELIMINARY
NOT FOR CONSTRUCTION

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If discrepancies between the supplied information upon which the drawing is based and actual field conditions are encountered as site work progresses, these discrepancies must be reported to Contech revuluation of the design. Contech carepts no liability for designs based on missing, incomplete or inaccurate information supplied by others.

MARK DATE REVISION DESCRIPTION BY

ENGINEERED SOLUTIONS LLC

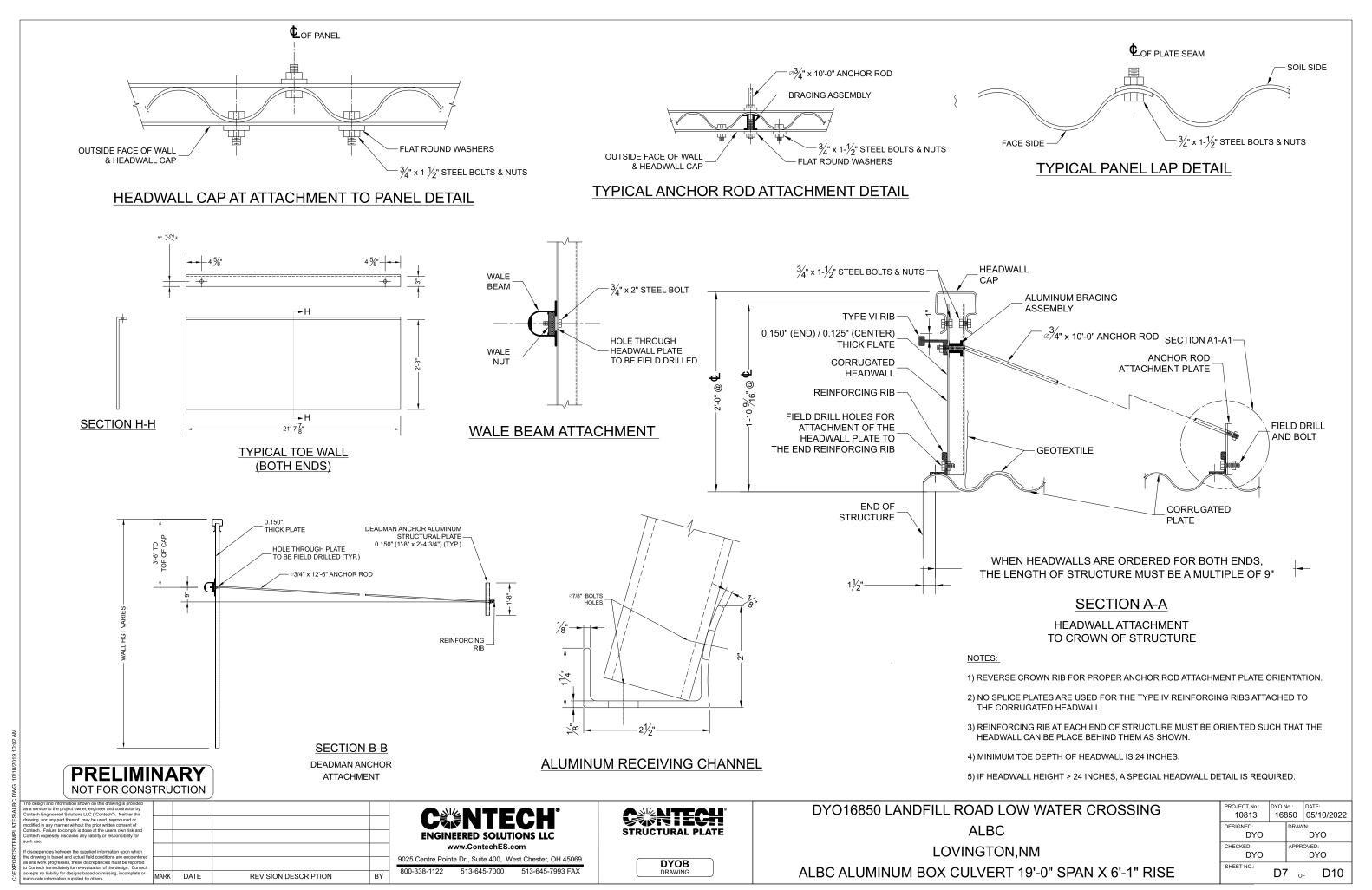
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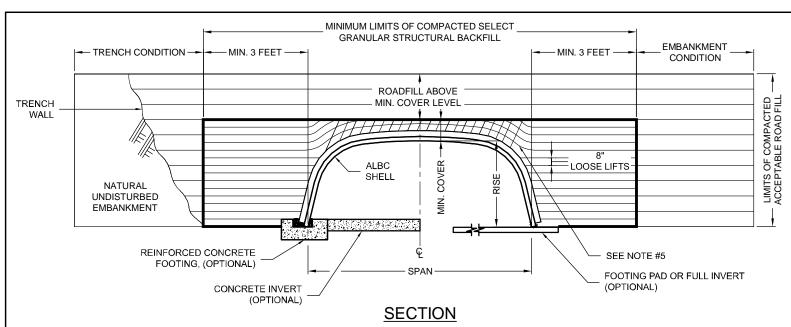
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069 800-338-1122 513-645-7000 513-645-7993 FAX STRUCTURAL PLATE

(BOTH ENDS)

DYOB DRAWING

PROJECT No.: 10813	DYO N		DATE: 05/10	)/2022
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SHEET NO.:	D6	<b>)</b>	- [	<b>D10</b>





SELECT GRANULAR STRUCTURAL BACKFILL LIMITS.



INITIAL LIFTS OVER THE CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH LIGHTWEIGHT(D-4 OR LIGHTER) EQUIPMENT.

#### NOTES:

- ALL SELECT GRANULAR BACKFILL TO BE PLACED IN A BALANCED FASHION IN THIN LIFTS (8° LOOSE TYPICALLY) AND COMPACTED TO 90 PERCENT DENSITY PER AASHTO T-180
- 2. COMPLETE AND REGULAR MONITORING OF THE ALUMINUM BOX CULVERT SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE.
- PREVENT DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
- TRENCH WIDTH OTHER THAN 3 FEET SHALL BE BY DIRECTION OF THE ENGINEER OF RECORD.
- 5. SWITCH TO PLACING SELECT GRANULAR BACKFILL NEAR IN RADIAL LIFTS THE MIDDLE OF THE HAUNCH CURVE.

#### ADDITIONAL SELECT GRANULAR STRUCTURAL BACKFILL NOTES:

SATISFACTORY BACKFILL MATERIAL, PROPER PLACEMENT, AND COMPACTION ARE KEY FACTORS IN OBTAINING MAXIMUM STRENGTH AND STABILITY.

THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND FOREIGN MATERIAL THAT COULD CAUSE HARD SPOTS OR DECOMPOSE TO CREATE VOIDS. BACKFILL MATERIAL SHOULD BE WELL GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF AASHTO M-145 FOR SOIL CLASSIFICATIONS A-1. A-2-4. A-2-5. OR A-3 MODIFIED.

SEE THE STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION TABLE ON THIS SHEET. BACKFILL MUST BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 8" LOOSE LIFTS. EACH LIFT IS TO BE COMPACTED TO A MINIMUM OF 90% DENSITY PER AASHTO T-180.

A HIGH PERCENTAGE OF SILT OR FINE SAND IN THE NATIVE SOILS SUGGESTS THE NEED FOR A WELL GRADED GRANULAR BACKFILL MATERIAL TO PREVENT SOIL MIGRATION. IF THE PROPOSED BACKFILL IS NOT A WELL-GRADED MATERIAL, A NON-WOVEN GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE SELECT BACKFILL AND THE IN SITU MATERIAL.

DURING BACKFILL, ONLY LIGHTWEIGHT TRACKED VEHICLES (D-4 OR LIGHTER) SHOULD BE NEAR THE STRUCTURE AS FILL PROGRESSES ABOVE THE CROWN AND TO THE FINISHED GRADE. THE ENGINEER AND CONTRACTOR ARE CAUTIONED THAT THE MINIMUM COVER MAY NEED TO BE INCREASED TO HANDLE TEMPORARY CONSTRUCTION VEHICLE LOADS (HEAVIER THAN D-4).

STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION, REFERENCE AASHTO M-145								
GROUP CLASSIFICATION	A-1-a	A-1-b	A-2-4	A-2-5	A-3			
Sieve Analysis Percent Passing								
No. 10 (2.000 mm)	50 max.							
No. 40 (0.425 mm)	30 max.	50 max.			51 max.*			
No. 200 (0.075 mm)	15 max.	25 max.	35 max.	35 max.	10 max.			
,	Atterberg Limits fo	or Fraction Passing	g No. 40 (0.425 m	nm)				
Liquid Limits			40 max.	41 min.				
Plasticity Index	6 max.	6 max.	10 max.	10 max.	Non Plastic			
Usual Materials  Stone Fragment, Gravel and Sand Gravel and Sand Gravel and Sand					Coarse Sand			

<sup>\*</sup>Modified from M-145.

Fine beach sands, windblown sands, stream deposited sands, etc., exhibiting fine, rounded particles and typically Classified by AASHTO M-145 as A-3 materials should not be used.

Reference the most current version of ASTM D2487, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), for comparable soil groups.

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					9
accepts no liability for designs based on missing, incomplete or	MARK	DATE	DEVISION DESCRIPTION	BV	1 8

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#### DYOB DRAWING

#### 1.0 STANDARDS AND DEFINITIONS

- 1.1 STANDARDS All standards refer to the current ASTM/AASHTO edition unless otherwise noted.
- 1.1.1 ASTM B-864 "Standard Specification for Corrugated Aluminum Box Culverts" (AASHTO Designation M-219).
- 1.1.2 AASHTO Standard Specification for Highway Bridges Section 12 Division I - Design, AASHTO LRFD Bridge Design Specifications Section 12
- 1.1.3 AASHTO Standard Specification for Highway Bridges Section 26 Division II - Construction, AASHTO LRFD Bridge Construction Specifications - Section 26. ASTM B789, Standard Practice for Installing Corrugated Aluminum Structural Plate Pipe.

#### 1.2 <u>DEFINITIONS</u>

- 1.2.1 Owner In these specifications the word "Owner" shall mean
- 1.2.2 Engineer In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative
- 1.2.3 Manufacturer In these specifications the word "Manufacturer" shall mean CONTECH ENGINEERED SOLUTIONS 800-338-1122
- 1.2.4 Contractor In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.
- .2.5 Approved In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.
- 1.2.6 As Directed In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

#### 2.0 GENERAL CONDITIONS

- 2.1 Any installation guidance provided herein shall be endorsed by the engineer; discrepancies herein are governed by the Engineer's plans and specifications.
- 2.2 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.
- 2.3 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.

If conditions other than those indicated are discovered by the Contractor, the Owner shall be notified immediately. The material which the Contractor believes to be a changed condition shall not be disturbed so that the owner can investigate the condition.

- 2.4 The construction shall be performed under the direction of the Engineer
- 2.5 All aspects of the structure design and site layout including foundations, backfill, end treatments and necessary scour consideration shall be performed by the Engineer.

#### 3.0 ASSEMBLY AND INSTALLATION

3.1 Bolts and nuts shall conform to the requirements of ASTM A-307 and/or ASTM A-449. The box culvert shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations.

Bolts shall be tightened using an applied torque of between 100 and 150 ft -lhs

- 3.2 The box culvert shall be installed in accordance with the plans and specifications, the manufacturer's recommendations, and AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction/AASHTO LRFD Bridge Construction Specifications - Section 26.
- 3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.
- 3.4 Aluminum Box Culvert designs require a minimum allowable soil-bearing pressure of 4,000 psf. Lower bearing capacities may be accommodated with a site specific design for an aluminum foundation or a concrete footing.

If the engineer determines the natural foundation is inadequate to support the structure's backfill, the poor material shall be excavated, removed and replaced to a suitable depth with competent material. The specific depth of excavation required may be reduced by utilizing a geosynthetic reinforced foundation as designed by a qualified geotechnical engineer. For additional information contact your local Contech representative.

3.5 When a metal foundation is used, the soil bedding requires a minimum of 6 inches of loose granular material with a maximum particle size of one half the corrugation depth. The proper width of the bedding material required shall conform to the project plans and specifications.

Bedding preparation is critical to both structure performance and service life. The bedding should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.

3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unloaded and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.

When installed on a full invert or on flexible footing pads, assembly of the invert or footing pads shall start at the downstream end. Circumferential seam laps shall shingle over the top of the downstream plates as assembly progresses upstream. Whether the box culvert is installed on a concrete footing, full metal invert, or flexible footing pad, assembly of the structure shell shall start at the upstream end. Downstream rings of plates shall be assembled outside of the upstream rings (Circumferential seams are shingled downstream when viewed from the inside of the shell).

3.7 The structure shall be backfilled using clean well graded granular material that meets the requirements for soil classifications A-1, A-2-4, A-2-5, or A-3 modified per AASHTO M-145. See the structural plate backfill group classification table on this sheet.

Backfill must be placed symmetrically on each side of the structure in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180.

3.8 Standard highway loads that meet the permissible design load limits for an Aluminum Box Culvert are not allowed on the structure until it is backfilled completely and pavement is in place.

The addition of temporary soil for heavy construction loads is not feasible or permissible for Aluminum Box Culverts. By design, these structures are limited in the range of permissible fill heights and live loads.

Heavy construction loads that exceed that of the particular highway live load design limits are not allowed on Aluminum Box Culverts without approval from the Engineer.

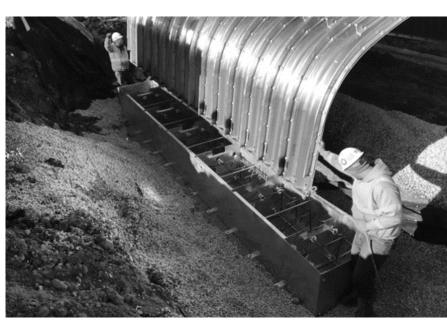
3.9 If an aluminum headwall and/or wingwall system is specified, the select granular structural backfill limits shall extend past the deadman anchor system. Contact the Engineer if stiff material or rock is encountered where the wingwalls and deadmen are to be installed.

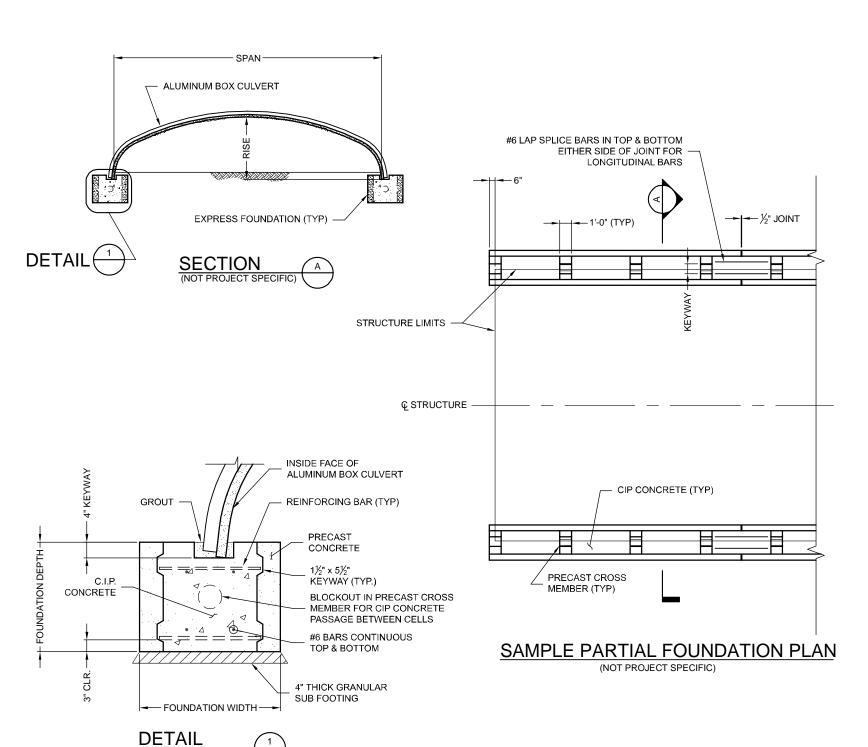
ALBC SPECIFICATIONS

# DRAWING ONLY SAMPLE

#### **EXPRESS FOUNDATIONS**







DATE REVISION DESCRIPTION

(NOT PROJECT SPECIFIC)

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**CWNTECH** STRUCTURAL PLATE

DYOB

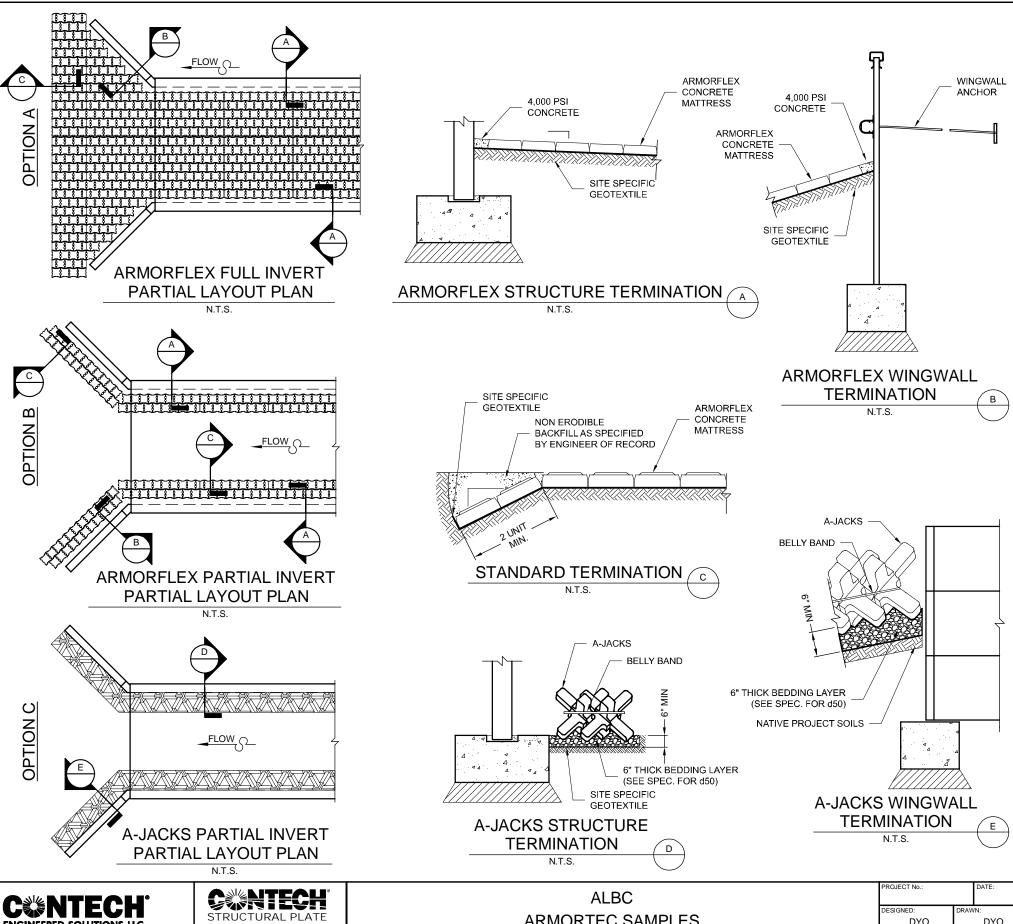
ALBC **EXPRESS FOUNDATION SAMPLES** 

DYO DYO DYO DYO D9 of D10

# ORAWING ON SAMPI



A-JACKS PARTIAL INVERT



800-338-1122 513-645-7000 513-645-7993 FAX DATE REVISION DESCRIPTION

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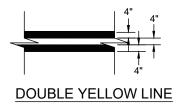
DYOB

ARMORTEC SAMPLES

DYO DYO DYO DYO D10 of **D10** 

# SIGN FACE DETAILS FOR PERMANENT SIGNING





# PERMANENT SIGNING GENERAL NOTES

- SIGN SUPPORT TO BE: COUNTY STANDARD OR APPROVED EQUAL
- 2. SIGN SHEETING TO BE "HIGH INTENSITY."
- 3. ALL STRIPING TO MEET CURRENT MUTCD STANDARDS
- 4. PERMANENT PAVEMENT MARKING MATERIALS TO BE USED PER NMDOT SPECIFICATIONS.
- 5. SIGN W8-19-12 SHALL BE PLACED AT THE LOWPOINT OF ROADWAY PROFILE. SEE 3



R4-1-24 24" X 30" B/W



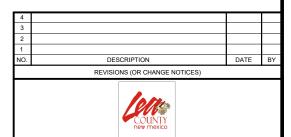




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> W8-19-12 12" X 72" B/FY





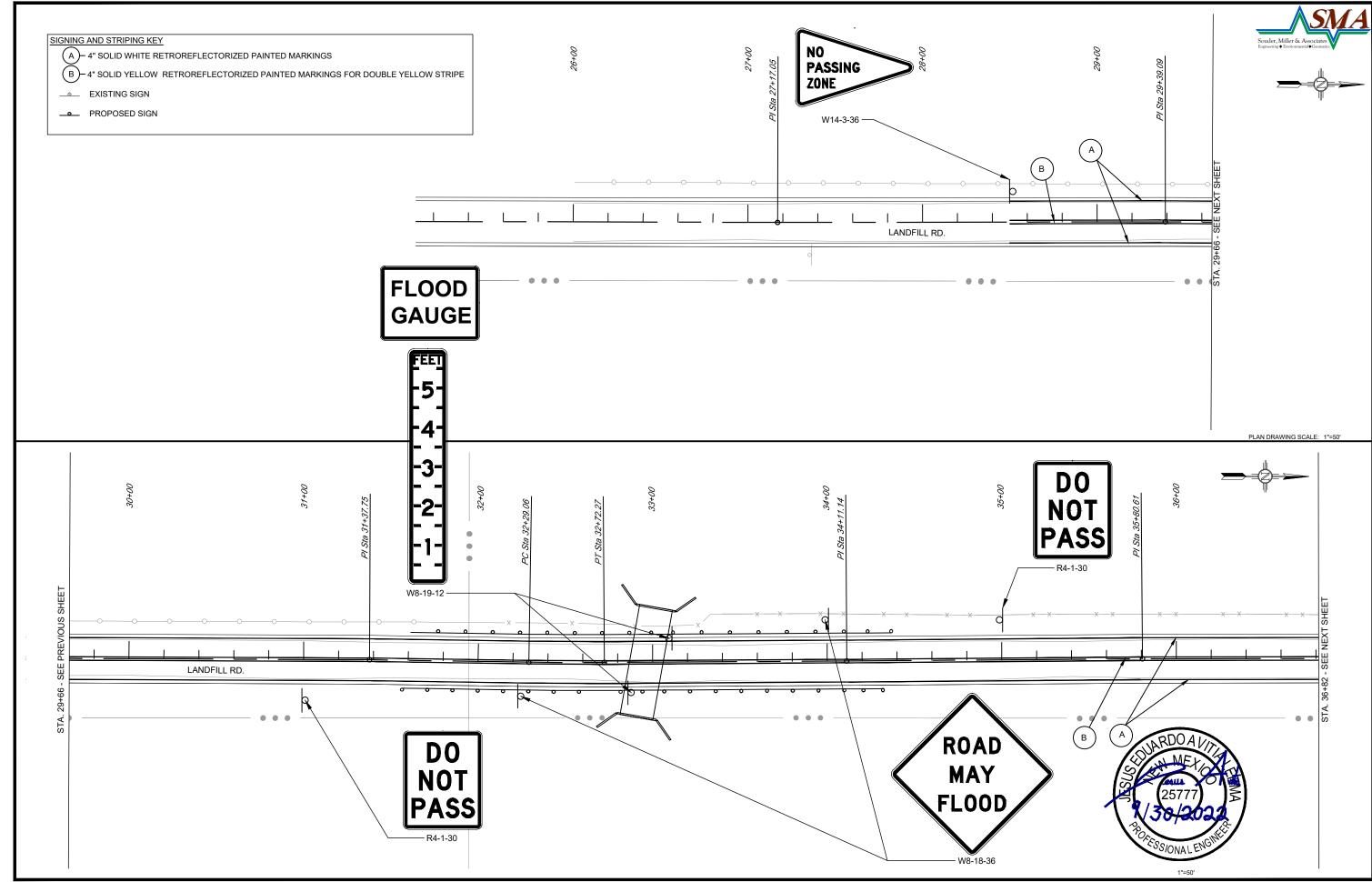
LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO SIGN FACE

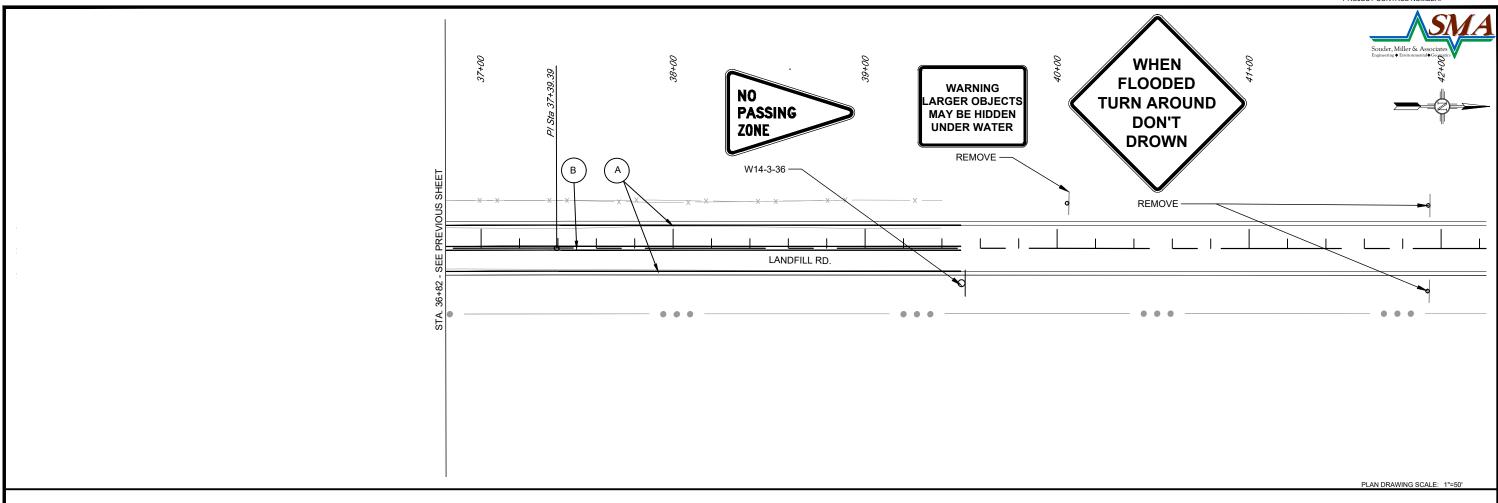
(A) 4" SOLID WHITE RETROREFLECTORIZED PAINTED MARKINGS

(B)—4" SOLID YELLOW RETROREFLECTORIZED PAINTED MARKINGS FOR DOUBLE YELLOW STRIPE

\_\_\_ EXISTING SIGN

PROPOSED SIGN





SIGNING AND STRIPING KEY

A – 4" SOLID WHITE RETROREFLECTORIZED PAINTED MARKINGS

B – 4" SOLID YELLOW RETROREFLECTORIZED PAINTED MARKINGS FOR DOUBLE YELLOW STRIPE

\_\_\_ EXISTING SIGN

PROPOSED SIGN





						704000		
PEF	PERMANENT STRIPING							
DESCRIPTION	STATION T	O STATION	OFFSET	LENGTH	4" SOLID WHITE	4" SOLID YELLOW		
	STA. T	O STA.	-	FT	LIN.FT.	LIN.FT.		
WHITE STRIPE	28+50.00	39+50.00	VAR	1100	2200			
SOLID YELLOW	28+50.00	39+50.00	VAR	1100		2200		
			-	SUBTOTAL:	2200	2200		
				X 2 APPLICATIONS:	4400	4400		
				PROJECT TOTAL		8800		
				PROJECT USE		8800		

			701000		_					701100
PERMANENT SIGNING			PANEL SIGNS		MOUNTING REQUIREMENTS			STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS		
	SIGN SIZE	No. OF		POST LENGTHS BASE POST						
	SIGN SIZE	SIGNS	AREA	(SQUAF	RE TUBING-	12 GA)	TOTAL	(3.5' L0	ONG EACH)	LENGTH
SIGN CODE	SQ. FT.	EA.	SQ.FT.	LEFT	CENTER	RIGHT	LIN. FT.	No.	LIN FT	LIN.FT.
R4-1-24	5.00	2	10.00		10		20	2	7	27
W8-18-36	9.00	2	18.00		10		20	2	7	27
W8-19-12	6.00	2	12.00		10		20	2	7	27
W14-3-36	6.00	2	12.00		10		20	2	7	27
	PROJE	CT TOTAL	52							108
	PRO	JECT USE	60							108

NOTE: POSTS FOR OBJECT MARKERS ARE TO BE INCLUDED IN UNIT BID PRICE FOR BID ITEM 703002 AND POSTS FOR ROAD DELINEATORS ARE TO BE INCLUDED IN UNIT BID PRICE FOR BID ITEM 703100. NO OTHER PAYMENT SHALL BE MADE.



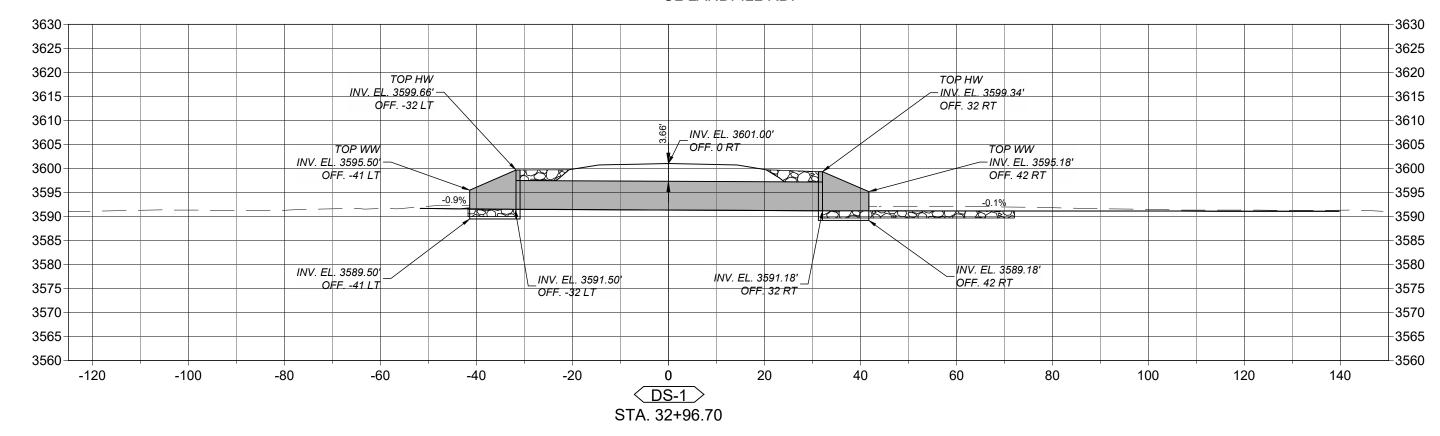
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NO.	DESCRIPTION	DATE	1
	REVISIONS (OR CHANGE NOTICE:	S)	_



LANDFILL RD. LOW WATER CROSSING LEA COUNTY, NEW MEXICO SIGNING & STRIPING QUANTITIES



## CL LANDFILL RD.



BUILD 1 - 19' X 19'-0" X 6'-1"' ALUMINUM BOX CULVERT BUILD HEADWALL AND WINGWALL PER CONTECH DETAIL

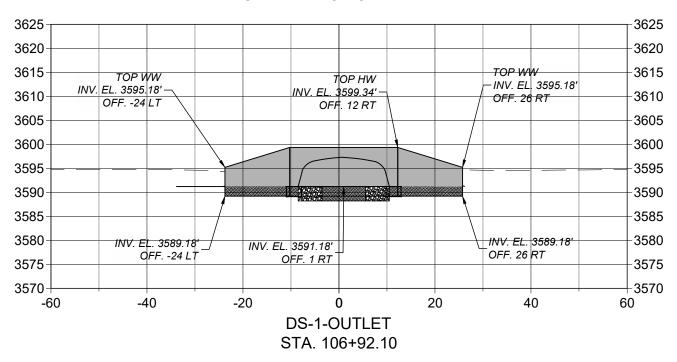




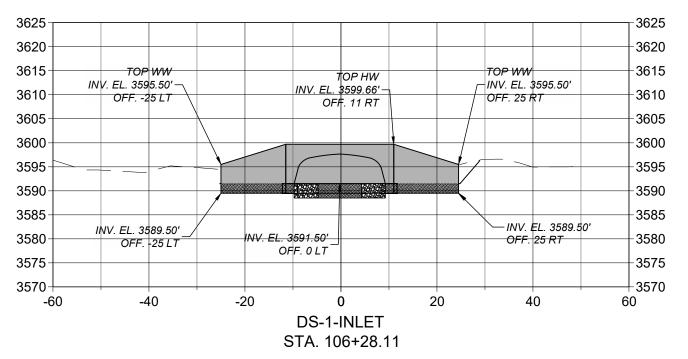
STRUCTURE SECTIONS



#### CL DRAINAGE CHANNEL.



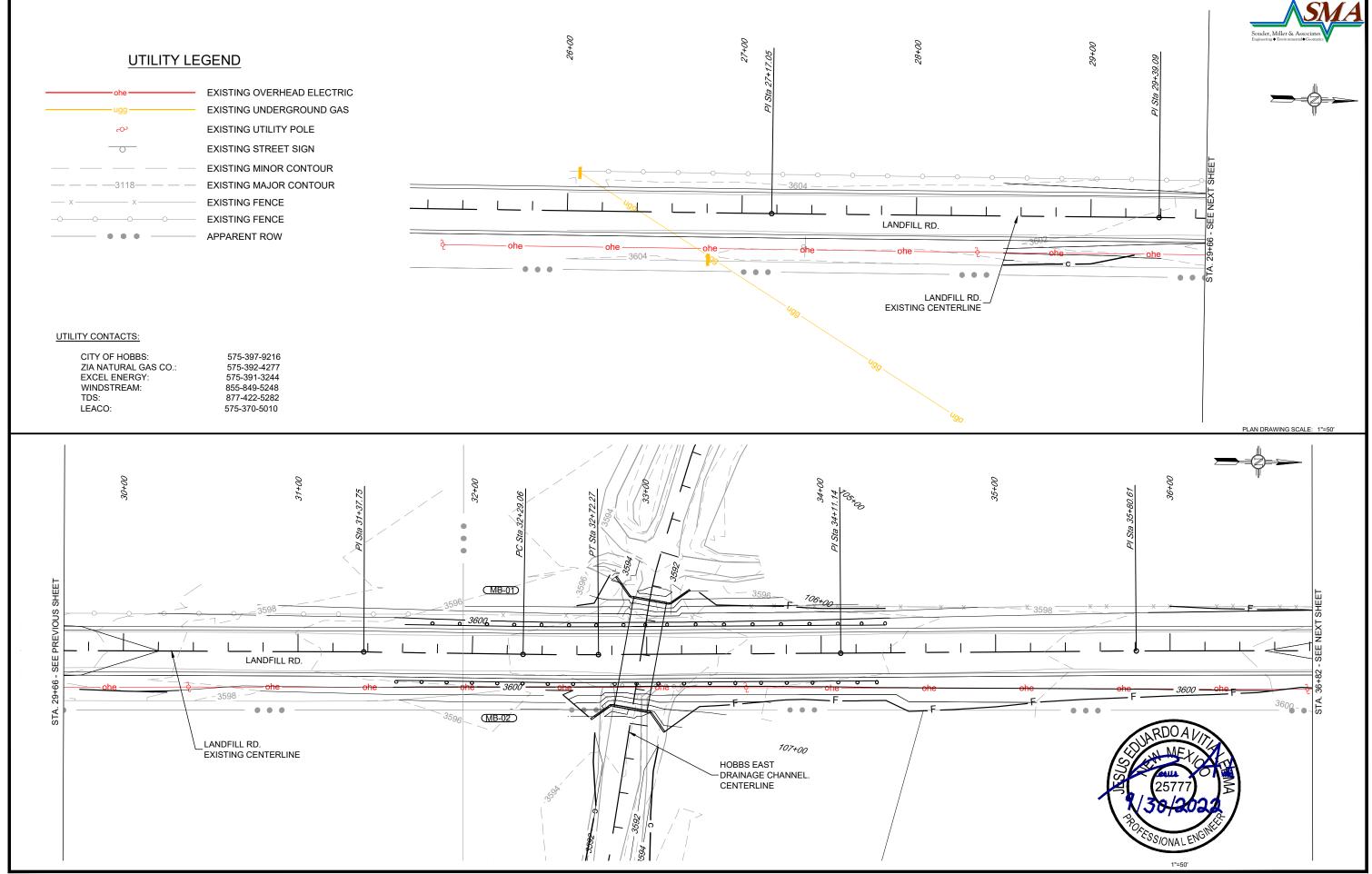
#### CL DRAINAGE CHANNEL.

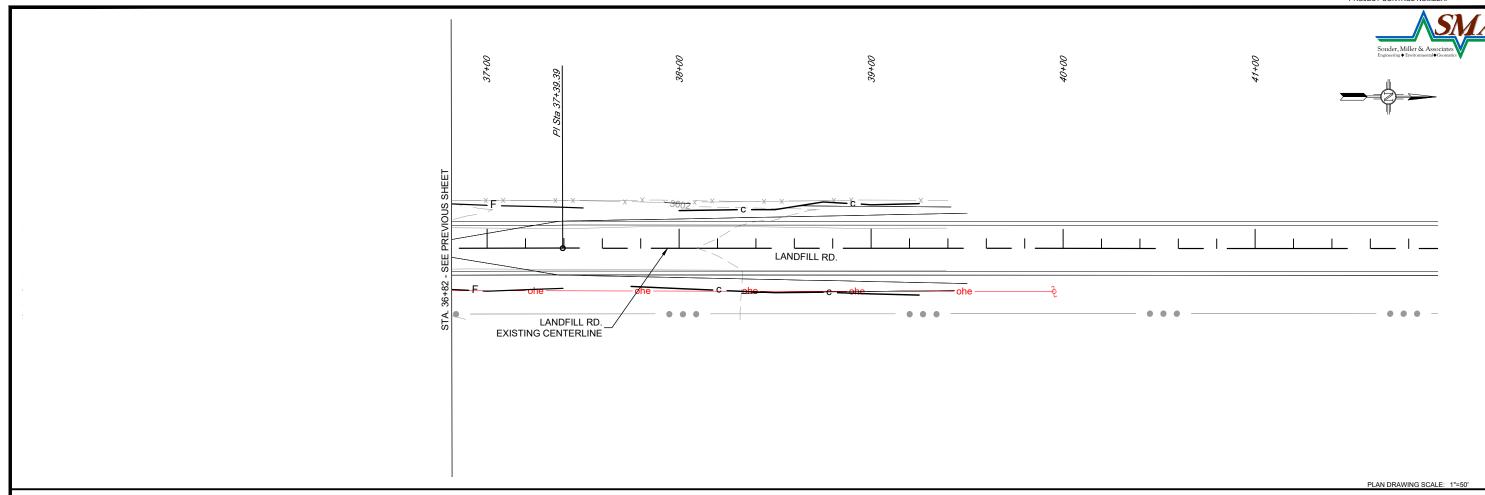






STRUCTURE SECTIONS







## **SPECIFICATIONS AND CONTRACT DOCUMENTS**

#### **FOR**

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

## **NIGP COMMODITY CODE# 91371**

BID # 06-(22-23)

LEA COUNTY, NEW MEXICO



## **ENGINEERING CERTIFICATION**

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

It is unlawful for the state or any of its political subdivisions to engage in the construction of any public work involving engineering unless the engineering is under the responsible charge of a licensed professional engineer.

This is to certify that I am a Registered Professional Engineer in the State of New Mexico, that these documents were prepared by me, or directly under my supervision, and that the same are true and correct to the best of my knowledge and belief.

25777 WEXCO AVITALIANDO AVITAL

Jesus E. Avitia, P.E.

New Mexico PE License #25777

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#### SECTION 1 – TERMS AND CONDITIONS

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

- The Terms and Conditions will form part of the contract between the County and the successful bidder. Failure to comply with all of the Terms and Conditions may subject the offer to rejection.
- 2. All bids shall be sealed, addressed and delivered <u>no later than 2:00 p.m.</u> (local time) on November 08, 2022. to the:

Kelli Ferguson, CPO Finance Department, 4th Floor Lea County Courthouse 100 North Main, Suite 11 Lovington, New Mexico 88260-4030

- 3. Please mark the outside of the envelope "BID # 06 (22-23)". It is the bidder's responsibility to see that the bid arrives on time. Late bids, faxes, telegrams or telephone bids will not be accepted.
- 4. Bids will be officially opened and publicly read aloud <u>no later than 2:00 p.m.</u> (local time) on November 08, 2022. in the:

Commission Chambers, 1st Floor Lea County Courthouse 100 North Main Lovington, New Mexico 88260

- 5. Each bidder is to submit its bid on the form provided. The form must be fully completed.
- 6. Bid submission shall consist of one (1) completed set from each bidder. Bid set shall be entire bid and contract book, including supplemental specifications.
- 7. The bid shall exclude all State taxes. Nontaxable transaction certificates will be issued if requested.
- 8. All bidders will be notified by letter of the Board's award.
- 9. Bid specifications indicate the minimum standard of quality, performance or other pertinent characteristics required.

## **SECTION 1 – TERMS AND CONDITIONS**

- 10. In case of ambiguity in stating bid prices, the County reserves the right to adopt the most advantageous interpretation.
- 11. The County reserves the right to waive technical irregularities in the form of the offer which do not alter price, quality or quantity, and to reject any or all offers when it is in the best interest of the County to do so.
- 12. In signing this bid, the bidder certifies that there has been no direct or indirect action in restraint of free competitive bidding in connection with this bid submitted to Lea County.
- 13. The Lea County Procurement Policy and the New Mexico Procurement Code, NM Stat § 13-1-1 through 199 (2019), shall apply to this procurement and prevail over any inconsistent terms and govern all interpretations of contract documentation. In addition, criminal laws prohibit bribes, gratuities and kickbacks.
- 14. Lea County's policy on requests for copies of bid/proposal information is as follows:
  - a. Terms and Specifications are available at no charge to vendors who will be responding directly to bids or proposals.
  - b. All questions must be addressed in writing no later than 5:00 p.m. on October 28, 2022, by email to; jesus.avitia@soudermiller.com.
- 15. It is expressly agreed and understood that the Contractor is not authorized to act as an agent of the County or to enter into any contract on behalf of the County. It is also acknowledged that the Contractor, its agents and employees, by virtue of award of this bid, are not entitled to any fringe benefits available to the employees of Lea County.
- 16. The Contractor will save and hold the County harmless from all suits, actions, claims, losses and expenses, including attorney's fees brought on account of any injuries or damages sustained by any employee or person, including wrongful death, or damage to property as a result of any negligence, misconduct or omission by the Contractor or employee or agent thereof connected in any way with Contractor's performance under this Contract.

## **SECTION 1 – TERMS AND CONDITIONS**

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

17. According to state procurement regulations, any protest of the award must be <u>submitted in writing within fifteen (15) days of written notice of award to:</u>

Kelli Ferguson, CPO Finance Department, 4th Floor Lea County Courthouse 100 North Main, Suite 11 Lovington, New Mexico 88260-4030

#### LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

Bids are requested for construction of the project named and described below for Lea County in accordance with these specifications and all Special Conditions, Plans, and Documents thereto.

#### 1. PROJECT NAME

#### LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

This project consists of furnishing all materials, labor, machinery, equipment, tools, etc., necessary to furnish and install misc. construction items consisting of any or all of the bid items listed in the Unit Price Bid Proposal.

#### 2. TIME AND PLACE OF RECEIVING BIDS

Time and place of receiving bids as indicated in the Invitation to Bid.

#### 3. QUALIFICATIONS OF BIDDERS

To demonstrate his qualifications for the Project, each bidder must be prepared to submit within five (5) days of Owner's written request a written statement of Bidder's Qualifications on the form contained herein or as prescribed by the Owner.

#### 4. EXAMINATION OF CONTRACT DOCUMENTS AND SITE

Before submitting his bid, each bidder must (a) examine the Contract Documents thoroughly; (b) visit the site to familiarize himself with local conditions that may in any manner affect performance of the work; (c) familiarize himself with federal, state, and local laws, ordinances, rules and regulations affecting performance of the work; and (d) carefully correlate his observations with the requirements of the Contract Documents. Failure to examine any of the above will not relieve the bidder of his obligation with respect to his bid.

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### 5. INTERPRETATIONS

All questions about the meaning or intent of the Contract Documents shall be submitted to County in writing. Replies will be issued by Addenda mailed or delivered to all parties recorded by Engineer as having received the bidding documents. Questions received less than seven (7) days prior to the date for opening of bids will not be answered. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

#### 6. BID GUARANTY

Bid guaranty in the amount of 5% of the amount of the bid shall accompany the bid and must be in the form of a certified or bank cashier's check made payable to Owner or a bid guaranty issued by a surety licensed to conduct business in the State of New Mexico and named in the current list of "Surety Companies" Acceptable on Federal Bonds" as published in the Federal Register by the Audit Staff Bureau of Accounts, U.S. Treasury Department. The Bid Guaranty of the successful bidder will be retained until he has executed the Agreement and furnished the required Contract Security, whereupon it will be returned; if he fails to execute and deliver the Agreement and furnish the required Contract Security within fifteen (15) days of the Notice of Award, Owner may annul the Notice of Award and the Bid Security of that Bidder will be forfeited. The Bid Guaranty of any bidder whom the Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of the seventh day after the executed agreement is delivered by Owner to Contractor and the required Contract Security is furnished or the sixty-first day after the bid opening. Bid Guaranty of other bidders will be returned within seven (7) days of the bid opening.

#### 7. CONTRACT TIME

The contract time for the base bid will be One Hundred and Twenty (120) calendar days to reach Substantial Completion. Fourteen (14) additional calendar days to reach Final Completion.

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### 8. SUBCONTRACTORS, ETC.

LIST OF SUBCONTRACTORS: Each contractor shall submit a list of proposed subcontractors to be used on the project. This information will be reviewed for the apparent low bidder. If the contractor desires, the list of subcontractors may be submitted in a sealed envelope. If the contractor is not the apparent low bidder, the subcontractor may request the list to be returned, and it will be returned unopened.

In addition, if a subcontractor's work to be constructed in the project is greater than \$5,000.00 or one-half of one percent of the total project cost, whichever is greater, each bidder shall in his bid furnish:

8.1 The name and location of the place of business of each subcontractor under subcontract to the Contractor who will perform work or labor or render service to the

Contractor in or about the construction of the public works construction project in an amount in excess of the listing threshold.

#### 9. BID FORM

- 9.1 Bid Forms must be completed in ink or by typewriter. The Bid price of each item on the form must be stated in numerals.
- 9.2 Bids by corporations must be executed in the corporate name by the president or vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown below the signature.
- 9.3 Bids by partnership must be executed in the partnership name and signed by a partner, his title must appear under his signature, and the official address of the partnership must be shown below the signature.
- 9.4 All names must be typed or printed legibly below the signature.

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

9.5 The bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which shall be filled in on the Bid Form). Addenda will be posted to the website listed on the Notice to Bidders and it is the bidder's responsibility to obtain from the website.

#### 10. SUBMISSION OF BIDS

- 10.1 Bids shall be submitted at the time and place indicated in the Invitation to Bid and shall be included in an opaque sealed envelope, marked with the Bid Number, Project Title and name and address of the Bidder. Contractor License Number must be shown on the outside of the envelope. Complete specifications and contract documents must be submitted with bid.
- 10.2 Bid submission shall consist of one (1) completed bid set from each bidder. Bid set shall be entire bid and contract book, including supplemental specifications.

#### 11. MODIFICATION AND WITHDRAWAL OF BIDS

Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that Bid must be executed) and delivered to the place where bids are to be submitted at any time prior to the opening of bids.

#### 12. OPENING OF BIDS

Bids will be opened as indicated in the Invitation to Bid.

#### 13. BIDS TO REMAIN OPEN

All bids shall remain open for sixty (60) days after the day of the Bid Opening; but Owner may, in his sole discretion, release any bid and return the Bid Guaranty prior to that date.

#### LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### 14. AWARD OF CONTRACT

- 14.1 Owner reserves the right to reject any and all bids and waive any and all informalities and the right to disregard all nonconforming or conditional bids or counter bids.
- 14.2 In evaluating bids, Owner shall consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and alternates and unit prices if requested in the bid forms. He may consider the qualifications and experience of Subcontractors and other persons and organizations (including those who are to furnish the principal items of material or equipment) proposed for those portions of the work whose identity may be submitted as specified in the Special Provisions. He may conduct such investigations as he deems necessary to establish the responsibility, qualifications, and financial ability of the Bidders, proposed Subcontractors, and other persons and organizations to do the work in accordance with the contract documents to Owner's satisfaction within the prescribed time. Owner reserves the right to reject the Bid of any Bidder who does not pass any such evaluation to Owner's satisfaction.
- 14.3 If a contract is to be awarded, it will be awarded to the lowest responsible Bidder whose evaluation by Owner indicates to Owner that the award will be in the best interest of the project.
- 14.4 If the contract is to be awarded, Owner will give the apparent successful bidder a Notice of Award within sixty (60) days after the day of the bid opening.
- 14.5 Simultaneously with delivery of the executed counterparts of the agreement to Owner, Contractor shall deliver to Owner the required Certificate of Insurance.

#### 15. WAGE RATES

The Bidder's attention is directed to the fact that wages to be paid on this project shall not be less than the prevailing wage rates as listed by the New Mexico Department of Workforce Solutions. Wage rates for this project are included in

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

these documents. It shall be the successful Bidder's responsibility to inform himself thoroughly of all state, federal, and local laws and statutes pertaining to the employment of labor, the freedom of organization, and the conditions of employment and shall strictly adhere to such laws and regulations as are applicable. There shall be no discrimination because of race, creed, color, national origin, or legal political affiliation in the employment of persons qualified by training and experience for work under this contract.

#### 16. PUBLIC WORKS APPRENTICE AND TRAINING ACT

Any bidder on a Lea County Project shall comply with Section 13-40-1 of the New Mexico State Statutes, known as the "Public Works Apprentice and Training Act." Lea County shall verify that the bidder is not out of compliance with this Act by contacting the New Mexico Construction Industries Division prior to awarding of the contract.

#### 17. BID OPENING PROCEDURE

Bidders are invited to be present at the opening of the bids. Bids will be opened and total bid amounts publicly read out loud, then bids will be taken by the finance department for examination for required bid forms, licenses, state preference numbers.

#### 18. COLLUSION

No bidder shall be interested in more than one bid. Collusion among bidders or submission or more than one bid under different names by any firm or individual shall be cause for rejection of all bids without consideration.

#### 19. PREPARATION OF BID

Each bid must be submitted on the forms contained herein and attached to the specification documents. All blank spaces for bid prices must be filled in, in ink or typewritten. Any final modifications on bid prices must be in ink and the initials of the person signing the bid must be placed at each modification made. In the event a discrepancy occurs between Unit Price shown multiplied by Quantity, and the resulting amount shown of that multiplication, the unit price shall govern and the bid totals and line items shall be adjusted accordingly.

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### 20. POWER OF ATTORNEY

Attorneys-in-fact who sign Bid Guaranty or Contract Bonds must file with each bond the certified and effectively dated copy of their power of attorney contained herein.

#### 21. CONDITIONAL BIDS

Conditional bids will not be accepted.

#### 22. INSURANCE

See requirement at Section 8 - Certificate of Insurance.

#### 23. PERFORMANCE AND PAYMENT BONDS

For work performed under this contract the Contractor shall supply the Owner with performance and payment bonds in the amount of 100% of the project bid amount

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

	То:	County Commission Lea County Courthouse 100 North Main Lovington, NM 88260	
	Date:		
Bid of		(hereinafter called	
"BIDDER"), organized and existing under the the County Commission of Lea County (here			_to
LANDFILL ROADWAY DRAIN	AGE LOW W	ATER CROSSING	

#### ENTER THE TROPIES WITH BIT WITH THE EDVE WITH EIT OF CO.

#### Commissioners:

The Bidder, in compliance with your invitation for bids for construction of the LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING, having examined the site of the proposed work, and being familiar with all of the conditions surrounding the construction of the proposed project including the availability of labor, hereby proposes to furnish all labor, and equipment, within the time set therein, at the prices stated below in accordance with the following:

- 1. Advertisement for bids dated October 16, 2022.
- 2. New Mexico State Highway and Transportation Department

  Standard Specifications for Highway and Bridge Construction, 2019

  Edition
- 3. The contract documents, including Special Provisions and Supplemental Specifications.

All of which are incorporated herein and made a part hereof. The following prices are to cover all expenses incurred in performing the work required under the contract documents, of which this bid is a part.

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

Bidders hereby agrees to commence work under this contract on or before a date to be specified in a written Notice to Proceed by the Owner and to fully complete the project within the calendar days for work stated in paragraph 7 of Instructions to Bidders.

Bidder agrees to perform all of the work described in the Specifications and shown on the plans for the following unit prices. Each item must be bid. The cost of any work added or deducted from the following estimated quantities shall be computed at the unit prices bid.

ITEM#	ITEM DESCRIPTION	UNIT	QTY	UNIT PRICE	ESTIMATED COST
004000		4005	0.00		
201000	CLEARING AND GRUBBING	ACRE	0.86		
203000	UNCLASSIFIED EXCAVATION	CU.YD.	1290		
203100	BORROW	CU.YD.	3300		
207000	SUBGRADE PREPARATION	SQ.YD.	4900		
303180	BASE COURSE 8"	SQ.YD.	4330		
408100	PRIME COAT MATERIAL	SQ.YD.	3770		
416106	MINOR PAVING TYPE-I, HMA SP-III	SQ.YD.	3600		
601110	REMOVAL OF SURFACING	SQ.YD.	2700		
602000	RIPRAP CLASS A	CU.YD.	375		
606001	SINGLE FACE W-BEAM GUARDRAIL	LIN.FT.	200		
606052	END TREATMENT TL-2 END TERMINAL	EACH	4		
606061	DRAINAGE STRUCTURE PROTECTION SYSTEM	LIN.FT.	200		
618000	TRAFFIC CONTROL MANAGEMENT	L.S.	LS		
621000	MOBILIZATION	L.S.	LS		
701000	PANEL SIGNS	SQ.FT.	60		
701100	STEEL POST AND BASE POST FOR ALUMINUM PANEL SIGNS	LIN.FT.	108		
702810	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION	L.S.	LS		
704000	RETROREFLECTORIZED PAINTED MARKINGS 4"	LIN.FT.	8800		
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	L.S.	LS		
802000	POST CONSTRUCTION PLANS	L.S.	LS		
950060	ALUMINUM BOX CULVERT 19'0" x 6'1"	EACH	1		
		BID TOTAL			

OTAL BID AMOUNT:	\$
OTAL BID AMOUNT, IN WRITING:	
	l be added to Total Base Bid at the time of
above.	ss Receipts Tax to the Total Base bid shown
Bid Guarantee shall be 5% of the To	tal Bid Price.

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

ADDENDA: The undersigned hereby acknowledge receipt of the following Addenda.

Addendum No Addendum No Addendum No Addendum No Addendum No Addendum No Addendum No	Date Date Date Date	  	
The Bid is hereby re	espectfully submitted b	y:	
		Name of Bidder	

(SEAL) if Bid is by Corp.		
New Mexico Contractor's License Number	By (Signature)	Date
New Mexico Contractors License Classifications	Printed Name and	Title
New Mexico Resident Veterans Preference Number	Address	
New Mexico Workforce Solutions Dept. Registration Number	City & State	Zip
Federal Employer Tax ID no.		
Federal Employer Tax ID No.	Telephone	
State of New Mexico Tax ID No.		
	Email Address	

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### **LIST OF SUBCONTRACTORS**

1	Tο	be fully	executed $\prime$	and included	l with bid as	a condition	of the bi	d
٠.		DC IGII	CACCULCA	and intoluce	i vviti bia as i	a oonanaan		ч.

2. The listing threshold is \$5,000.00 or one half of one percent of the total project cost whichever is greatest.

	Nature of work	Subcontractor Name	Location of Business
(\$60,00 10 NM	00.00) for a public works pr SA 1978] shall be register	r that submits a bid valued at mo roject that is subject to the Public Wo red with the labor and industrial div e subject to the requirements of this	orks Minimum Wage Act [13-4-vision of the labor department.

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### **CAMPAIGN CONTRIBUTION DISCLOSURE FORM**

Pursuant to the Procurement Code, Sections 13-1-28, et seq., NMSA 1978 and NMSA 1978, § 13-1-191.1 (2006), as amended by Laws of 2007, Chapter 234, any prospective contractor seeking to enter into a contract with any state agency or local public body for professional services, a design and build project delivery system, or the design and installation of measures the primary purpose of which is to conserve natural resources must file this form with that state agency or local public body. This form must be filed even if the contract qualifies as a small purchase or a sole source contract. The prospective contractor must disclose whether they, a family member or a representative of the prospective contractor has made a campaign contribution to an applicable

public official of the state or a local public body during the two years prior to the date on which the contractor submits a proposal or, in the case of a sole source or small purchase contract, the two years prior to the date the contractor signs the contract, if the aggregate total of contributions given by the prospective contractor, a family member or a representative of the prospective contractor to the public official exceeds two hundred and fifty dollars (\$250) over the two year period.

Furthermore, the state agency or local public body may cancel a solicitation or proposed award for a proposed contract pursuant to Section 13-1-181 NMSA 1978 or a contract that is executed may be ratified or terminated pursuant to Section 13-1-182 NMSA 1978 of the Procurement Code if: 1) a prospective contractor, a family member of the prospective contractor, or a representative of the prospective contractor gives a campaign contribution or other thing of value to an applicable public official or the applicable public official's employees during the pendency of the procurement process or 2) a prospective contractor fails to submit a fully completed disclosure statement pursuant to the law.

The state agency or local public body that procures the services or items of tangible personal property shall indicate on the form the name or names of every applicable public official, if any, for which disclosure is required by a prospective contractor.

THIS FORM MUST BE INCLUDED IN THE REQUEST FOR PROPOSALS AND MUST BE FILED BY ANY PROSPECTIVE CONTRACTOR WHETHER OR NOT THEY, THEIR FAMILY MEMBER, OR THEIR REPRESENTATIVE HAS MADE ANY CONTRIBUTIONS SUBJECT TO DISCLOSURE.

The following definitions apply:

"Applicable public official" means a person elected to an office or a person appointed to complete a term of an elected office, who has the authority to award or influence the award of the contract for which the prospective contractor is submitting a competitive sealed proposal or who has the authority to negotiate a sole source or small purchase contract that may be awarded without submission of a sealed competitive proposal.

"Campaign Contribution" means a gift, subscription, loan, advance or deposit of money or other thing of value, including the estimated value of an in-kind contribution, that is made to or received by an applicable public official or any person authorized to raise, collect or expend contributions on that official's behalf for

#### LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

the purpose of electing the official to either statewide or local office. "Campaign Contribution" includes the payment of a debt incurred in an election campaign, but does not include the value of services provided without compensation or unreimbursed travel or other personal expenses of individuals who volunteer a portion or all of their time on behalf of a candidate or political committee, nor does it include the administrative or solicitation expenses of a political committee that are paid by an organization that sponsors the committee.

**"Family member"** means spouse, father, mother, child, father-in-law, mother-in-law, daughter-in-law or son-in- law of (a) a prospective contractor, if the prospective contractor is a natural person; or (b) an owner of a prospective contractor.

"Pendency of the procurement process" means the time period commencing with the public notice of the request for proposals and ending with the award of the contract or the cancellation of the request for proposals.

"Prospective contractor" means a person who is subject to the competitive sealed proposal process set forth in

the Procurement Code or is not required to submit a competitive sealed proposal because that person qualifies for a sole source or a small purchase contract.

"Representative of a prospective contractor" means an officer or director of a corporation, a member or manager of a limited liability corporation, a partner of a partnership or a trustee of a trust of the prospective contractor.

#### Name(s) of Applicable Public Official(s):

Board of County Commissioners: Rebecca Long, Dean Jackson, Gary Eidson, Jonathan Sena, Pat Sims, Assessor Sharla Kennedy, Clerk Keith Manes, Probate Judge Sandra Goad, Treasurer Susan Marinovich, Sheriff Corey Helton.

DISCLOSURE OF CONTRIBUTIONS BY Contribution Made By: Relation to Prospective Contractor: Name of Applicable Public Official: Date Contribution(s) Made: Amount(s) of Contribution(s): Nature of Contribution(s): Purpose of Contribution(s): (Attach extra pages if necessary)	Y PROSPECTIVE CONTR	ACTOR:
Signature	Date	
Title (Position)		
NO CONTRIBUTIONS IN THE AGGRE WERE MADE to an applicable public of Signature		
Title (Position)		

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

## RESIDENT/VETERANS PREFERENCE CERTIFICATION FORM

(NAME OF CONTRACTOR) hereby certifies the	following in
regard to application of the resident/ resident veterans' preference to this procurement.	
Please check one box only:	
Resident Veteran Business:	
$\square$ I declare under penalty of perjury that my business annual gross revenues did not exceedings (\$3,000,000) in the preceding tax year. I also declare that my business or myself has rethis preference for more than ten consecutive years.	
Resident Business:	
$\square$ I declare under penalty or perjury that my business is a New Mexico resident business all preference discount on this bid or proposal. I understand that knowingly giving false or misle about this fact constitutes a crime.	•
"I agree to submit a report, or reports, to the State Purchasing Division of the General Serdeclaring under penalty of perjury that during the last calendar year starting January December 31, the following to be true and accurate:	•
"In conjunction with this procurement and the requirements of this business' application for a Business Preference/Resident Veteran Contractor Preference under Sections 13-1-21 or 13-1 when awarded a contract which was on the basis of having such veterans preference, I agree State's Division of the General Services Department the awarded amount involved. I will independ the awarded amount as a purchase from a public body or as a public works contract from the case maybe.	1- 22 NMSA 1978, ee to report to the icate in the report
"I understand that knowingly giving false or misleading information on this report constitutes	s a crime."
I declare under penalty of perjury that this statement is true to the best of my knowledge. giving false or misleading statements about material fact regarding this matter constitutes a	
Resident Business/Veteran Business Certificate Number:	
(Signature of Business Representative) (Date)	
*Must be an authorized signatory for the Business.	

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

"The representations made in checking the boxes constitutes a material representation by the business that is subject to protect and may result in denial of an award or un-award of the procurement involved if the statements are proven to be incorrect.

\*\* A copy of a valid New Mexico Resident Business or New Mexico Veteran's Resident Business Certificate must be provided in order to receive preference.

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

## RELATED PARTY DISCLOSURE FORM

1. Are you indebted to or have a receivable from an Commissioners; elected county officials, administration key management supervisors with the County of Lea?			
	Yes	No	-
2. Are you, or any officer of your company related to a Commissioners; elected county officials, administration management supervisors of the County of Lea and h transactions since January 1, 2008, to which Lea Coun	n officials, de ave you had	epartment hea any of the fo	ds, key
Sales, purchase or leasing of property? Receiving, furnishing of goods, services or facilities? Commissions or royalty payments	Yes	No	- - -
3. Does any member of the Board of County Cofficials, administration officials, department heads, kethe County of Lea, have any financial interest in proprietorship, partnership, or corporation of any kind with the County of Lea?	ey managem your compa that currently	nent superviso any whether	ors with a sole usiness
			_

account for the benefit of a member of the Boar county officials, administration officials, dep supervisors with the County of Lea?	d of County C		ected
	Yes	No	-
5. Are you negotiating to employ or do you culor family member of an employee or officer of the second seco			fficer
	Yes	No	_
The answers to the foregoing questions are o	orrectly state	ed to the best of	my
knowledge and belief.			
knowledge and belief. Signature of Owner or Company President:		Date:	
Signature of Owner or Company President:			
Signature of Owner or Company President:			
Signature of Owner or Company President:			

# **SECTION 3 – BID FORM**

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

# <u>CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS</u>

Offeror certifies to the best of its knowledge and belief that it and its principals:

- 1. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- 2. Have not within a three year period preceding this proposal been convicted of, had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or Local) transaction or contract under a public transaction; violation of Federal or State Antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- 3. Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State, or Local) with commission of any offenses; and
- 4. Have not within a three-year period preceding this application/proposal had one or more public transaction (Federal, State, or Local) terminated for cause or default.

I understand that a false statement on this certification may be ground for rejection of this proposal or termination of the award. Under 18USC Sec. 1001, a false statement may result in a fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Signature of Authorized Representative:_	Date:
Print Name and Title:	

# **SECTION 3 – BID FORM**

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

# **NON-COLLUSION AFFIDAVIT**

ST	ATE OF				
CC	UNTY OF				
of o	organization)		eposes and says that he/she is (title) unty of Lea, a proposal; That all statemen	nts of	
fac	t in such proposal are true;				
Tha	at said proposal was not made in the inter anization or corporation;	est of or on behalf of any undiscl	osed person, partnership, company, asso	ciation,	
act	-		or conference with anyone attempted to nyone else interested in the proposed co		
Th	at prior to the public opening and reading	of proposal, said bidder:			
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	<ol> <li>Did not directly or indirectly collude, conspire, connive or agree with anyone else that said bidder or anyone else would submit a false or sham proposal, or that anyone should refrain from bidding or withdraw his proposals;</li> <li>Did not in any manner, directly or indirectly, seek by agreement, communication or conference with anyone to raise or fix the proposal price of said bidder or of anyone else, or to raise or fix any overhead, profit or cost element of their proposal price, or of that of anyone else;</li> </ol>				
		Ву:			
		Name & Title			
SU	BSCRIBED and sworn to before me this	day of	20		
No	tary Public:				
Му	Commission Expires:				

# **SECTION 4 – BID GUARANTY**

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,
as "SURETY" are held and firmly bound unto the County of Lea. New Mexico
hereinafter called the "OWNER", in the penal sum of
bollars _(\$ in
lawful money of the United States, for the payment of which sum well and truly be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.
THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the Principal has submitted
the Accompanying Bid, dated the day of 20 to the
County of Lea, New Mexico, for:
LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING
NOW, THEREFORE, if the Principal shall not withdraw said Bid within the period therein after the opening of the same or, if no period be specified, within forty-five (45) days after the said opening, and shall within the period specified therefore, or if no period be specified within fifteen (15) days after the prescribed forms are presented to him for signature, enter into a Written Contract with the Owner in accordance with the Bid as accepted, and give bond with good and sufficient surety or sureties, as may be required, for the faithful performance and proper fulfillment of such Contract; or in the event of the withdrawal of said bid within the period specified, if the Principal shall pay the Owner the difference between the amount specified in said Bid and the amount for which the Owner may procure the required work of supplies or both, if the latter be in excess of the former, then the above obligation shall be voice and of no effect, otherwise to remain in full force and effect.
IN WITNESS WHEREOF, the above bounded parties have executed this instrument under their several seals this day of 20 the name and corporate
seal of each corporate party being hereto affixed and these presents signed by its undersigned
representative pursuant to authority of its governing body.

# **SECTION 4 – BID GUARANTY**

ATTEST: (SEAL)	
	Principal
	By:
Witness as to Principal	Principal Address
ATTEST: (SEAL)	
	Surety
	By:
Witness as to Surety	Surety Address
COUNTERSIGNED:	
By:	
Attorney-in-Fact, State of	
Power-of-Attorney for person signing for Sur	rety Company must be attached to bond.

# **SECTION 5 – PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS, That we (1)
a (2)hereinafter called "PRINCIPAL" and (3)
of State of
hereinafter called the "SURETY", are held and firmly bound unto (4) County of Lea. New Mexico
hereinafter called "OWNER", in the penal sum of
Dollars(\$
in lawful money of the United States, for the
payment of which sum well and truly to be made, we bind ourselves, our heirs, executors administrators, personal representatives, and successors and assigns, jointly and severally firmly by these presents.
THE CONDITION OF THIS OBLIGATION IS SUCH THAT, WHEREAS, the Principal entered into a certain contract with the Owner, dated the day of 20 , a
copy of which is hereto attached and made a part hereof for the construction of:
LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING
NOW, THEREFORE, if the principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the Owner, with o without notice to the Surety, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the Owner from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the Owner all outlay and expense which the Owner may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.
PROVIDED, FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligation on this bond, and it does hereby waive notice of any such change extension of time, alterations, or addition to these terms of the contract or to the work or to the specifications.
PROVIDED, FURTHER, that no final settlement between the Owner and the Contractor shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.
IN WITNESS WHEREOF, this instrument is executed in six (6) counterparts, each one of which shall be deemed as an original, thisday of 20

Ву:	
 Name/Title	
Principal Address	
1 Tilloipai 7 daless	
Surety	
Ву:	
Attorney-in-Fact	
Surety Address	
	Name/Title  Principal Address  Surety  By:

Note: Date of Bond must not be prior to date of contract.

- (1) Correct name of Contractor.
- (2) A corporation, a partnership, or an individual as case may be.
- (3) Correct name of Surety.
- (4) Correct name of Owner.
- (5) If Contractor is partnership, all partners should execute Bond.

# **SECTION 6 – PAYMENT BOND**

KNOW ALL MEN BY THESE PR	ESENTS, That we (1)				
a (2)					
of				State of	
hereinafter called the "SURET" "OWNER", in the penal sum of	Y", are held and firml	y bound unto (	4) <u>County of Le</u>	<u>a. New Mexico</u> , here	inafter called
· 		D	ollars(\$		in
lawful money of the United St our heirs, executors, admir severally, firmly by these pres	ates, for the paymen nistrators, personal	nt of which sun	n well and truly	to be made, we bin	nd ourselves,
THE CONDITION OF THIS OF certain contract with the Owr					_ 20_, a
copy of which is hereto attach	ned and made a part	hereof for the	construction of	:	
L	ANDFILL ROADWAY	Y DRAINAGE	LOW WATER (	CROSSING	
NOW, THEREFORE, if the corporations furnishing mate contract, and any authorized materials, lubricants, oil, gas in connection with the construction this obligation shall be v	erials for or perform d extension or modi pline, coal and coke, uction of such work,	ning labor in the fication thereon repairs on mand all insuration	he prosecution of, including, bu achinery, equip nce premiums	n of the work provi at not limited to, all a ment, and tools, co	ided for in such amounts due for nsumed or used
PROVIDED, FURTHER, that to of time, alteration, or additional specifications accompanying notice of any such change, et to the specifications.	n to the terms of th the same shall in ar	ne contract or ny way affect it	to the work t s obligation on	be performed the this bond, and it do	ereunder or the es hereby waive
PROVIDED, FURTHER, that beneficiary hereunder, whose			ner and the Cor	ntractor shall abridge	the right of any
IN WITNESS WHEREOF, this shall be deemed as an original					

# **SECTION 6 – PAYMENT BOND**

ATTEST: (SE	AL)				
		Principal			
		Ву:			
 Principal-Se	ecretary	Name/Title			
Witness as to Principal		Principal Address			
ATTEST: (SEAL)					
		Surety			
		Ву:			
Surety-Secr	retary	Attorney-in-Fact			
Witness as t	o Surety	Surety Address	-		
Note: Date	of Bond must not be prior to	date of contract.			
(1) (2) (3) (4)	Correct name of Contracto A corporation, a partnersh Correct name of Surety. Correct name of Owner.	r. ip, or an individual as case may be.			
(5)	(5) If Contractor is partnership, all partners should execute Bond				

# **SECTION 7 – CONSTRUCTION CONTRACT**

# LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

This is an agreem	ent made by	and between the	e County of Le	ea, N	<u>ew Mexico</u> , h	nereinafter called	l
the "OWNER" and $$					<b>_</b> of		
hereinafter referre	d to as "CON	TRACTOR".					
The parties to this	agreement,	in consideration	of their mutua	al pro	omises agree	e as follows:	
<u>Description.</u> be known as:	Contractor	hereby agrees	with Owner	to	commence	and complete	the construction to

#### LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

and more fully described as follows, to-wit:

Furnish and install <u>LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING</u> consists of furnishing all materials, labor, machinery, equipment, tools, etc., necessary to furnish and install misc. construction projects consisting of any or all of the bid items listed in the Unit Price Bid Proposal.

All construction shall be in accordance with, and this Contract shall include and the parties hereto shall be bound by all provisions of the following, which are each incorporated by reference as if set forth in full herein: New Mexico State Highway and Transportation Department <u>Standard Specifications for Highway and Bridge Construction</u>, <u>2019 Edition</u>, as amended and revised by the <u>Supplemental Specifications</u>, which are attached hereto and incorporated by reference as if set forth in full herein. Contractor hereby covenants, warrants, and acknowledges that Contractor possesses <u>Standard Specifications for Highway and Bridge Construction</u>, <u>2019 Edition</u> and knowledge of its contents.

All construction shall further be in accordance with, and this Contract shall include and the parties hereto shall be bound by, all provisions of the following, which are each attached hereto and incorporated by reference as if set forth in full herein:

- A. Terms & Conditions
- B. Instructions to Bidders
- C. Bid Form
- D. Bid Guaranty
- E. Performance Bond
- F. Payment Bond
- G. Construction Contract
- H. Certificate of Insurance
- I. Minimum Wage Rates and Certified Payroll

- J. Statement of Bidder's Qualification
- K. Project Description
- L. Special Provisions
- M. General Provisions
- N. Technical Specifications
- 0. Supplemental Specifications

<u>Price</u>. Contractor shall perform the construction of the said Project on a per unit basis in accordance with the Bid quantities. The parties understand and agree that the total price of this contract is based on certain prices quoted for certain unit items of goods multiplied by an estimated number of units which will be required for the job, combined with a figure which represents the price to be paid for the necessary services which will be required to complete this performance under this contract. The parties understand and agree that all parties involved have made a serious good faith effort to arrive at the closest and most accurate estimates possible and that certain adjustments in quantity may have to be made as the performance under this contract proceeds. However, the parties agree that the unit prices upon which the total contract is based will remain the same, as will the figure quoted for services, unless otherwise provided herein. The Bid sets forth the breakdown of the unit prices, estimated number of units, and the figure for services, which figures have been used to arrive at the Bid Item prices shown on the Bid. The Bid sets forth the

Total Bid Price \$	

New Mexico Gross Receipts Tax will be added to this amount at time of billing.

<u>State Wage Rates</u>. State wage rates are included in these documents and shall be followed during the entire term of this contract plus extensions. Prior to communicating any request for Road Work, the Owner shall obtain a copy of the updated wage rates from the State. These shall be provided to the Contractor and the Contractor shall submit the proper report to the State verifying conformance following performance of any work.

<u>Termination of Contract.</u> Either party may terminate this or any extensions of the contract upon receipt of written notice by other party thirty (30) days in advance of termination. All funds due the Contractor for work performed up to the date of termination shall be paid in full.

<u>Time for Completion: Liquidated Damages</u>. Bidders hereby agrees to commence work under this contract on or before a date to be specified in a written Notice to Proceed by the Owner and to fully complete the project within the calendar days for work stated in paragraph 7 of Instructions to Bidders. Liquidated Damages shall follow NMDOT standard specifications.

<u>Payment</u>. Owner agrees to pay Contractor for the performance of this Agreement and to make payments on account thereof as provided in "Payment to Contractor" of the Special Conditions.

This contract contains the entire agreement between the parties and no statement, promises, or inducements made by either party or agent of either party that is not contained in this written agreement shall be valid or binding; and this agreement may not be enlarged, modified, or altered except in writing signed by the parties. The Contractor's Bid is attached hereto and is referred to herein and contains the description of the Contractor's bid on the price of the Project; however, this Contract supersedes the Bid and the terms hereof are controlling on any and all terms other than the job description and price and on any and all terms where the documents conflict.

<u>Indemnity by Contractor</u>. To the fullest extent permitted by law, the Contractor shall indemnify and hold harmless; the County, its officials, employees, agents, successors, and assigns from and against any and all liabilities, penalties, fines forfeitures, demands, claims, causes of action, suits, and costs and expenses incidental thereto, including cost of defense, settlement, and reasonable attorney fees, which any or all of them may hereinafter suffer, incur, be responsible for or pay our as a result of bodily injuries, including death, to any person, damage, including loss of use, to any property, public or private, contamination of or adverse effects on the environment, or any violation or alleged violation of statutes, ordinances, orders, rules or regulation of any governmental entity or agency, directly or indirectly, or arising out of or resulting from the acts, or failure to act, of the Contractor, is employees, agents, subcontractors, or other persons engaged by or under the control, supervision or direction of the Contractor, or its subcontractors, in the performance of this agreement. To the extent, if at all, Section 56-7-7 1 NMSA 1978 is applicable, the duty of the Contractor to indemnify the County shall not extend to liability, claims, damages, losses or expenses, including fees of lawyers and costs, arising out of (i) the preparation or approval of maps, drawings, opinions, reports, surveys, change orders, designs or specifications by County, or by its agents or employees; or (ii) the giving or the failure to give directions or instructions by the County or by its agent or employees, where the giving or failure to give directions or instruction is the primary cause of bodily injury, wrongful death or damage to property. This paragraph shall survive after the completion or the termination of the contract.

<u>Miscellaneous</u>. This agreement shall inure to the benefit of and be binding upon the successors in interest and assigns of the respective parties.

It is hereby agreed by the parties that there will be no assignment or transfer of this agreement, nor of any interest in this agreement, without prior written agreement of the parties to this agreement.

IN WITNESS WHEREOF, the parties hereto have executed six (6) copies of this document, each day of \_\_\_\_\_\_20\_\_ of which shall be deemed an original on this \_\_\_\_ ATTEST: OWNER: (SEAL) THE COUNTY OF LEA. NEW MEXICO By\_\_\_\_\_ Title\_\_\_\_\_ Finance Director **APPROVED AS TO FORM:** County Attorney ATTEST: CONTRACTOR: (SEAL) By\_\_\_\_\_\_ Contractor - Secretary Title

It is mutually understood and agreed that this agreement shall be governed by the laws of the

State of New Mexico, both as to interpretation and performance.

# **SECTION 8 – CERTIFICATE OF INSURANCE**

_(Contractor)

- 1. Sole Proprietorship: Signature of both husband and wife.
- 2. General Partnership: Signature of all general partners, if possible, and a fully executed copy of partnership agreement.
- 3. Corporation: Signature of president, attested by secretary; with corporate seal. Also, obtain a certificate of good standing issued by S.C.C. within 60 days and prior to execution of any document, place a telephone call to the New Mexico State Corporation Commission at 827-4510 to confirm current "good standing" of corporation and correct listing of officers and directors. If corporation is not in "good standing" and/or president and secretary is claimed to be different that listing at S.C.C., Contractor <u>must</u> clear up problem with S.C.C. before contract is executed.

# **SECTION 8 – CERTIFICATE OF INSURANCE**

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

#### **INSURANCE COVERAGE:**

The Contractor shall obtain, and provide proof thereof, to the Owner the following insurance coverage:

- a. General Liability
  - 1. Personal and Bodily Injury: \$1,000,000.00 each person; \$2,000,000.00 each occurrence; (annual aggregate); and,
  - 2. Property Damage: \$2,000,000.00 each occurrence; (annual aggregate).
- b. Automobile Liability
  - 1. Personal and Bodily Injury: \$1,000,000.00 each person; \$2,000,000.00 each occurrence; (annual aggregate); and,
  - 2. Property Damage: \$2,000,000.00 each occurrence; (annual aggregate).

#### c. Worker's Compensation

The contractor shall carry worker's compensation insurance and otherwise fully comply with the New Mexico Worker's Compensation Act (NMSA 1978, 52-1-1 et seq.) and the New Mexico Occupational Disease Disablement Law (NMSA 1978, 52-3-1 et seq.).

Lea County will be listed as an additional insured on all policies, and proof of coverage must be provided before work begins. Award will be contingent upon receipt of proof of insurance.

Contractor shall further obtain and provide proof to the Owner of any other insurance coverage required by the statutes of the State of New Mexico or regulations of any agency of the State of New Mexico governing this type of Project.

Workers' Compensation is required along with State statutory employers' liability limits regardless of number of employees.

Contractor covenants, warrants, and agrees that it shall indemnify, defend, save and hold the County of Lea, the Lea County Board of Commissioners, its individual commissioners, its officers, employees and agents (collectively and individually as "Owner") harmless from any and all liability, damage, expense, cause of action, suits, claims, judgments, losses, costs, expenses, and liens, of every kind and nature, including, but not limited to, those arising from injury to person(s) or damage to property, arising out of, resulting from, or occurring during this project. This indemnification and hold harmless by Contractor to the County of Lea (Owner) shall include, but not be limited to, the County of Lea (Owner's) attorney's fees and costs incurred in defending against the same, and in prosecuting any cross claims or counterclaims required or arising therefrom.

# **SECTION 8 – CERTIFICATE OF INSURANCE**

<<< Inis sneet shall be replaced with the awarded Contractor's Certificate of Insurance>>>	

# SECTION 9- MINIMUM WAGE RATES & CERTIFIED PAYROLL

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

The awarded Contractor will be responsible sending *Notification of Award (NOA)* and the Statement of Intent to the New Mexico Labor Department of Labor before work starts. After a contractor/ subcontractor has finished work on the project, but before the final payment is made, an Affidavit of Wage Paid must be returned to the DOL office.

Certified payrolls for the awarded Prime Contractor and any subcontractor shall be sent to the following:

Kelli Ferguson, CPO
Finance Department, 4th Floor
Lea County Courthouse
100 North Main, Suite 11
Lovington, New Mexico 88260-4030
(505) 396-8521

The outside of the envelope shall be marked with the following:

Certified Payroll
LANDFILL ROADWAY DRAINAGE LOW
WATER CROSSING BID # 06-(22-23)

The first weeks certified payroll shall have First on the front page and numbered consecutively thereafter. The last weeks certified payroll shall have Final on the front page.

State wage rates shall be followed during the entire term of this contract. The Contractor shall submit the proper report to the Sate verifying conformance following performance of any work.

The Wage Rate Decision No. is part of the executed contract and will be added prior to signing and execution of the contract.

Wage Rate Decision No. <u>LE-22-2477-A</u>



#### LABOR RELATIONS DIVISION

401 Broadway NE Albuquerque, NM 87102 Phone: 505-841-4400 Fax: 505-841-4424 226 South Alameda Blvd Las Cruces, NM 88005 Phone: 575-524-6195 Fax: 575-524-6194

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1596 Pacheco St, Suite 103 Santa Fe, NM 87505 Phone: 505-827-6817 Fax: 505-827-9676

#### **Wage Decision Approval Summary**

1) Project Title: Landfill Roadway Drainage Low Water Crossing

Requested Date: 10/03/2022 Approved Date: 10/04/2022

Approved Wage Decision Number: LE-22-2477-A

Wage Decision Expiration Date for Bids: 02/01/2023

2) Physical Location of Jobsite for Project:

Job Site Address: City of Hobbs, NM , 0.48miles S of Landfill/Sanger intersection

Job Site City: Hobbs Job Site County: Lea

3) Contracting Agency Name (Department or Bureau): Lea County

Contracting Agency Contact's Name: Kelli Ferguson

Contracting Agency Contact's Phone: (575) 396-8521 Ext. 8610

4) Estimated Contract Award Date: 12/08/2022

5) Estimated total project cost: \$1,132,287.98

a. Are any federal funds involved?: No

b. Does this project involve a building?: No

c. Is this part of a larger plan for construction on or appurtenant to the property that is subject to this project?: No

d. Are there any other Public Works Wage Decisions related to this project?: No

e. What is the ultimate purpose or functional use of the construction once it is completed?: to reconstruct 0.21 miles with hot mix aspahlt over basecourse, place aluminum box culvert and slope protection in the inlet and outlet of structure, guardrail barrier on both sides of roadway

6) Classifications of Construction:

Classification Type and Cost Total	Description
Highway/Utilities (A) Cost: \$1,132,287.98	reconstruct .21 mile of roadway,with hot mix asphalt,over 8" basecourse. Aluminum culvert placed under roadway and rip rap slope protection placed in the inlet and outlet of the structure. guardrail barrier will be installed on both sides of roadway



#### LABOR RELATIONS DIVISION

401 Broadway NE Albuquerque, NM 87102 Phone: 505-841-4400 Fax: 505-841-4424

# **PUBLIC WORKS PROJECT REQUIREMENTS**

As a participant in a Public Works project valued at more than \$60,000 in the state of New Mexico, the following list addresses many of the responsibilities that are defined by statute or regulation to each project stakeholder.

#### **Contracting Agency**

- Ensure that all contractors wishing to bid on a Public Works project when the project is \$60,000 or more are actively registered with the Public Works and Apprenticeship Application (PWAA) website: <a href="http://www.dws.state.nm.us/pwaa">http://www.dws.state.nm.us/pwaa</a> (Contractor Registration) prior to bidding.
- Please submit Notice of Award (NOA) and Subcontractor List(s) to the PWAA website promptly after the project is awarded.
- Please update the Subcontractor List(s) on the PWAA website whenever changes occur.
- All sub-contractors and tiers (excluding professional services) regardless of contract amount must be listed on the Subcontractor List and must adhere to the Public Works Minimum Wage Act.
- Ninety days after project completion please go into the PWAA system and close the project. Only contracting agencies are allowed to close the project. Agents or contractors are not allowed to close projects.

#### **General Contractor**

- Provide a complete Subcontractor List and Statements of Intent (SOI) to Pay Prevailing
   Wages for all contractors, regardless of amount of work, to the contracting agency within 3 (three) days of award.
- Ensure that all subcontractors wishing to bid on a Public Works project have an active Contractor Registration with the Public Works and Apprenticeship Application (PWAA) website: <a href="http://www.dws.state.nm.us/pwaa">http://www.dws.state.nm.us/pwaa</a> prior to bidding when their bid willexceed \$60,000.
- Make certain the Public Works Apprentice and Training Act contributions are paid either to an approved Apprenticeship Program or to the Public Works Apprentice and Training Fund.
- Confirm the Wage Rate poster, provided in PWAA, is displayed at the job site in an easily accessible place.
- When the project has been completed, make sure the Affidavits of Wages Paid (AWP) are sent to the contracting agency.
- All subcontractors and tiers (excluding professional services) regardless of contract amount must pay prevailing wages, be listed on the Subcontractor List, and adhere to the Public Works Minimum Wage Act.

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#### LABOR RELATIONS DIVISION

401 Broadway NE Albuquerque, NM 87102 Phone: 505-841-4400 Fax: 505-841-4424

#### **Subcontractor**

- Ensure that all subcontractors wishing to bid on a Public Works project have an active Contractor Registration with the Public Works and Apprenticeship Application (PWAA) website: <a href="http://www.dws.state.nm.us/pwaa">http://www.dws.state.nm.us/pwaa</a> prior to bidding when their bid willexceed \$60,000.
- Make certain the Public Works Apprentice and Training Act contributions are paid either to an approved Apprenticeship Program or to the Public Works Apprentice and Training Fund.
- All subcontractors and tiers (excluding professional services) regardless of contract amount must pay prevailing wages, be listed on the Subcontractor List, and adhere to the Public Works Minimum Wage Act.

#### **Additional Information**

Reference material and forms may be found in the New Mexico Department of Workforce Solutions Public Works web pages at: <a href="https://www.dws.state.nm.us/Labor-Relations/Labor-Information/Public-Works">https://www.dws.state.nm.us/Labor-Relations/Labor-Information/Public-Works</a>.

#### **CONTACT INFORMATION**

Contact the Labor Relations Division for any questions relating to Public Works projects by email at <a href="mailto:public.works@state.nm.us">public.works@state.nm.us</a> or call (505) 841-4400.



# TYPE "A" – STREET, HIGHWAY, UTILITY & LIGHT ENGINEERING Effective January 1, 2022

Trade Classification	Base Rate	Fringe Rate
Bricklayer/Block layer/Stonemason	24.46	8.81
Carpenter/Lather	26.48	12.14
Carpenter- Los Alamos County	29.24	13.94
Cement Mason	17.74	7.41
Drywall Finisher/Taper	25.21	8.00
Glazier		
Glazier/Fabricator	21.00	6.45
Delivery Driver	11.50	6.45
Ironworker	27.70	17.89
Painter- Commercial	17.75	8.20
Paper Hanger	17.75	8.20
Plumber/Pipefitter	33.10	13.10
Electricians- Outside Classifications: Zone 1	2	
Ground man	24.57	11.74
Equipment Operator	35.25	16.06
Lineman	44.32	18.08
Journeyman technician	41.47	17.37
Cable Splicer	48.75	19.19
Electricians-Outside Classifications: Zone 2		
Ground man	24.57	11.74
Equipment Operator	35.25	16.06
Lineman	44.32	18.08
Journeyman technician	41.47	17.37
Cable Splicer	48.75	19.19
Electricians-Outside Classifications: Los Alamos	,	
Ground man	25.27	11.76
Equipment Operator	36.27	16.09

Lineman	45.47	18.36
Journeyman technician	42.41	17.60
Cable Splicer	49.59	19.40
Laborers		
Group I	14.79	6.93
Group II	15.29	6.93
Group III	16.79	6.93
Group IV	17.29	6.93
Operators		
Group I	19.93	6.74
Group II	20.92	6.74
Group III	21.02	6.74
Group IV	21.14	6.74
Group V	21.24	6.74
Group VI	21.44	6.74
Group VII	21.61	6.74
Group VIII	21.92	6.74
Group IX	29.87	6.74
Group X	33.32	6.74
Soft Floor Layers	20.75	8.45
Truck Drivers		
Group I-IX	17.65	8.72

NOTE: All contractors are required to pay SUBSISTENCE, ZONE AND INCENTIVE PAY according to the particular trade. Details are located in a PDF attachment at <a href="https://www.dww.dws.state.nm.us">www.dws.state.nm.us</a>. Search Labor Relations/Labor Information/Public Works/Prevailing Wage Rates.

For more information about the Subsistence, Zone, and Incentive Pay rates, or to file a wage claim, contact the Labor Relations Division at (505) 841-4400 or visit us online at <a href="https://www.dws.state.nm.us">www.dws.state.nm.us</a>.

# SECTION 10 – STATEMENT OF BIDDER'S QUALIFICATION

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

(To be submitted by the Bidder only upon the specific request of the Owner in writing.)

All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. If necessary, questions may be answered on separate attached

sheets. The Bidder may submit any additional information he desires. 1. Name of Bidder and New Mexico Contractor's License Number. 2. Permanent main office address. 3. When organized: If a corporation, where incorporated? 4. How many years have you been engaged in the contracting business under your 5. present firm or trade name? 6. Contracts on hand. (Schedule these, showing amount of each contract and the approximate anticipated dates of completion.) 7. General character of work performed by your company. Have you ever failed to complete any work awarded to you? If so, where and why? 8. Have you ever defaulted on a contract? If so, where and why? 9. 10. List the more important projects recently completed by your company, stating the approximate cost for each and the month and year completed. 11. List your major equipment available for this contract. 12. Experience in construction work similar in importance to this project.

Background and experience of the principal members of your organization, including

13.

the officers.

14.	Credit available: \$
15.	Give bank reference:
16.	Will you, upon request, fill out a detailed financial statement and furnish any other information that may be required by the Owner?
inforn	undersigned hereby authorizes any person, firm or corporation to furnish any nation requested by the Owner in verification of the recitals comprising this ment of Bidder's Qualifications.
Dated	l atthis day of 20
	Name of Bidder:
	Ву:
	Title:
	of ) ounty of
that h	(name), being duly sworn, deposes and says e is(title) of
	(company) and all foregoing questions and all
staten	nents therein contained are true and correct.
Subso	cribed and sworn to before me this day of 20

Notary Public:	-
My commission expires:	

# **SECTION 11 – PROJECT DESCRIPTION**

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING

#### **Project Description**

Project consists of reconstruction of 0.21 miles of roadway with 2.5" Hot Mix Asphalt over 8" of Basecourse. An aluminum box culvert will be placed under the roadway and Rip-Rap slope protection will be placed in the inlet and outlet of the structure. Guardrail barrier will be installed on both sides of the roadway.

**END OF SECTION** 

- SP-1: SPECIAL PROVISIONS: These special conditions take precedence over specifications and the GENERAL PROVISIONS.
- SP-2: RIGHT-OF-ENTRY-AND-INSPECTION-OF-WORK: All authorized personnel of Lea County shall have the right to visit the site and inspect the work and materials. The Contractor shall furnish reasonable facilities for obtaining such information as necessary to determine the progress and manner of the work and character of materials being used.
- SP-3: GUARANTEE: Units shall be guaranteed for a period of one year from date of final acceptance against defective workmanship. Upon receipt of notice from the Owner of failure of any part of the guaranteed workmanship, the Contractor shall promptly replace the defective parts at his own expense.
- SP-4: DRAWINGS: The data given herein and on the drawings is as exact as could be secured, but extreme accuracy is not guaranteed. Discrepancies occurring between the work covered by this section shall be immediately reported to the Owner, and he will issue written instructions for any changes or any clarifications.
- SP-5: SAFETY: The Contractor shall at all times exercise reasonable precautions for the safety of employees on the work, bystanders or observers of the project, engineering personnel and inspectors, and shall comply with all applicable provisions of the State and Municipal Safety Laws and Building Construction Codes. All machinery and equipment and other physical hazards shall be guarded in accordance with the "Manual of Accident Prevention in Construction" of the Associated General Contractors of America unless such instructions are incompatible with State or Municipal laws or regulations.
- SP-6: EXAMINATION OF PLANS, SPECIFICATIONS AND SITE: The offering of a bid shall serve as prima facie evidence that the bidder has visited the site of the proposed project, and has satisfied himself that the character, quality and quantities of work to be performed, materials to be furnished, and requirements of the proposed contract are reasonably accounted for in his bid.

- SP-7: ORDER OF WORK: The Contractor shall start the work at such points on the project as the Owner may direct and shall progress from point to point as directed by the Owner. Contractor shall make any reasonable effort required to coordinate his activities with other Contractor's and Owner's staff that may be working in this or adjacent areas.
- SP-8: FEES AND CODES: The Contractor shall pay all costs for any and all fees and/or work permits required in connection with the work. All materials supplied and work performed by the Contractor shall be in accordance with all State and local codes and/or ordinances governing such material and work.
- SP-9: NOTICE OF COMPLETION: When the Contractor is satisfied that work and cleanup is completed, he shall issue the notice of completion to the Owner's authorized representative. The notice of completion shall include the request for final inspection with date and time given.
- SP-10: ACCEPTANCE OF THE PROJECT: The Owner may accept the project even though the corrections on the final inspection have not been made by the Contractor. In such a case, there will be deductions for the uncompleted or corrected work based on previous provisions of these specifications. Such deductions shall be made from the final payment.
- SP-11: AS-BUILT PLAN ACCEPTANCE: It will be the responsibility of the Owner to complete an as-built plan for this project. Contractor shall supply to the Owner any additional information needed to complete the plans for As-Built Condition.
- SP-12: INSPECTION OF WORK IN PROGRESS: The Owner shall be responsible for inspection of the Contractor's work while such work is in progress. The Owner shall bring to the attention of the Contractor any work which does not meet the specifications of this contract, and the Contractor shall correct such work as brought to his attention.
- SP-13: SHOP DRAWINGS: Shop drawings and material certifications shall be submitted electronically to the Owner for review. All such information shall be submitted prior to use.
- SP-14: TESTING: The Owner shall provide all compaction testing, asphalt testing, and quality assurance testing. The Owner shall pay for the first test on each material

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as required. Any retesting due to the initial test failing shall be paid for by the Contractor, whether the retest is passing or failing. The Contractor shall provide the Owner a 24 hour notice of any testing required. Any item installed without being tested or certified shall be removed and replaced at Contractor's expense. Contractor shall notify the Owner before any tests are made, and Owner shall contact the testing firm as necessary. The Contractor is responsible for all costs associated with quality control tests as required by the technical specifications for material furnished by the Contractor and incorporated into the work. The Owner is responsible for all costs associated with quality assurance testing of the material on-site.

- SP-15: SURVEYING: The Owner will provide control stakes and temporary benchmarks. Per NMSA 61-23-27.13, surveying Public Work, a New Mexico licensed professional surveyor is required to be in responsible charge of construction staking surveys for the construction of any public work involving surveying. Blue-tops, flow line pins, cut stakes and all other necessary construction staking will be the responsibility of the Contractor.
- SP-16: USE OF PRIVATE PROPERTY FOR STORAGE: Prior to using any private property, Contractor must obtain a written consent form from the property owner and deliver a copy to the County for record purposes.
- SP-17: EXCAVATION: The Contractor shall be responsible for notification of New Mexico one call system prior to excavation. Not all municipal utilities owners participate in the New Mexico one call program. It will be the contractor's responsibility to contact municipal utilities owners.
- SP-18: PAYMENT TO CONTRACTOR: At a minimum of nineteen (19) days prior to the first Tuesday of each month, the Contractor shall submit all requests for payment to the Lea County Road Superintendent for review and processing. Fourteen days prior to the first Tuesday of each month, the Road Superintendent will submit pay request to the Finance Department for payment. All request for payment will be submitted to the Lea County Board of Commissioners on the first commission meeting of the month for approval or denial. Failure of any part to submit pay request or correct discrepancies in a pay request by each appropriate deadline may result in delay of payment to Contractor.

#### SECTION 13 – GENERAL PROVISIONS

## LANDFILL ROADWAY DRAINAGE LOW WATER CROSSING NIGP COMMODITY CODE# 91371 BID # 06-(22-23)

The applicable General Provisions for this project are Division 100 of the "New Mexico State Highway Department Standard Specifications for Road and Bridge Construction, Edition of 2019".

(Wherever the word Department is found replace with Owner. The Project Manager is the Owners representative who is delegated the responsibility for the administration of the project.

All references to Bid Guaranty, Performance Bonds, and Payment Bonds in Division 100 of the New Mexico State Highway Department Standard Specifications for Highway and Bridge Construction, Edition of 2019 shall be deleted and Bidder shall see Instructions to Bidders for instructions on Bid, Performance, and Payment Bond requirements for this project/contract.

# **SECTION 14 – TECHNICAL SPECIFICATIONS**

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The applicable Technical Specifications for this project are the "New Mexico State Highway Department Standard Specifications for Road and Bridge Construction, Edition of 2019". Except as modified in the following SUPPLEMENTAL SPECIFICATIONS.

(Wherever the word Department is found replace with Owner. The Project Manager is the Owners representative who is delegated the responsibility for the administration of the project.)

# **SECTION 15 – SUPPLEMENTAL SPECIFICATIONS**

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<<< Remove this page and Insert Supplemental Specifications>>>> All provisions of the New Mexico State Highway and Transportation Department's Standard Specifications for Highway and Bridge Construction, edition of 2019 shall apply except as modified herein.

DESCRIPTION	PAGE	
MODIFYING SECTION 201 - CLEARING AND GRUBBING	2	
DELETING SECTION 303 – BASE COURSE	2	
ADDING AND MODIFYING SECTION 247 – FLEXIBLE BASE		
MODIFYING SECTION 408 – PRIME COAT MATERIAL	4	
MODIFYING SECTION 423 - HOT MIX ASPHALT	5	

**APPENDIX A: TXDOT SECTION 247 - FLEXIBLE BASE** 

Wherever the word Department is found replace with Owner. The Project Manager is the Owner's representative who is delegated the responsibility for the administration of the project.

#### **MODIFYING SECTION 201 - CLEARING AND GRUBBING**

Delete subsections 201.4 and 201.5 and substitute the following:

#### 201.4 **METHOD OF MEASUREMENT**

Clearing and grubbing will be measured by the acre unit.

#### 201.5 BASIS OF PAYMENT

Item Number	Description	Unit
201000	Clearing and Grubbing	Acre

# **DELETING SECTION 303 – BASE COURSE**

Delete section 303 in its entirety.

# ADDING AND MODIFYING SECTION 247 - FLEXIBLE BASE

Add the Texas Department of Transportation (TxDOT) section 247 included in Appendix A. Make the following modifications to the 247 specification.

#### 2. MATERIALS

The base course material shall be Flexible Base, Grade 3, Type E (8" thickness) with maximum Aggregate Index (AI) of 35.

#### 4.3. Compaction

Delete sub-section 4.3 and replace with:

Compact base course to at least 96% of maximum density as determined by AASHTO T 180 (Modified Proctor), Method D (TTCP Modified).

#### 5. MEASUREMENT

Delete Section 5 and replace with:

Flexible base will be measured by the square yard unit.

#### 6. PAYMENT

Delete Section 6 and replace with:

8" Flexible Base will be paid for by square yard.

Item Number	Description	Unit
303180	8″ Flexible Base	S.Y.

#### **MODIFYING SECTION 408 – PRIME COAT MATERIAL**

Delete subsections 408.4 and 408.5 and substitute the following:

#### 408.4 METHOD OF MEASUREMENT

Aggregate Primer will be measured by the square yard.

#### 408.5 BASIS OF PAYMENT

#### Payment will be made under:

Item Number	Description	Unit
408100	Prime Coat Material	

Separate payment will not be made for blotter material or for rolling of aggregate primer material.

Note: Actual application rates will vary depending on site conditions.

# **MODIFYING SECTION 423 - HOT MIX ASPHALT**

Add the following:

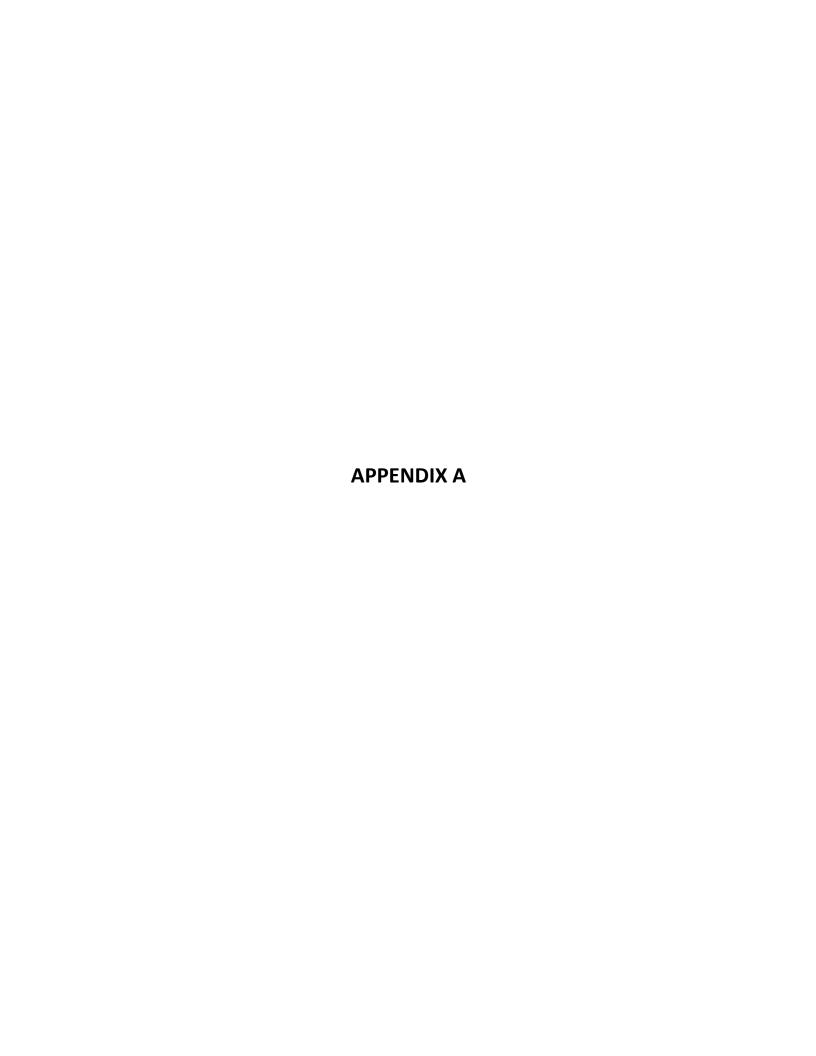
#### 423.7 **BASIS OF PAYMENT**

Plant mix bituminous pavement will be paid for at the contractor's unit price per square yard. No separate payment will be made for bituminous material, or hydrated lime. No separate pavement will be made for tack coat to be applied to the edges of adjacent pavement

Payment will be made under:

Item Number	Description	Unit
416106	416106 Minor Paving TYPE-I, HMA SP-III	

No separate measurement or payment will made for *sawcutting* when paving operations connect to existing pavement. The sawcut shall be a neat clean cut with a smooth transition to the new pavement. Any broken off edges should be corrected by additional sawcuts.



# Item 247 Flexible Base



#### 1. **DESCRIPTION**

Construct a foundation course composed of flexible base.

#### 2. **MATERIALS**

Furnish uncontaminated materials of uniform quality that meet the requirements of the plans and specifications. Notify the Engineer of the proposed material sources and of changes to material sources. The Engineer may sample and test project materials at any time before compaction throughout the duration of the project to assure specification compliance. Use <a href="Tex-100-E">Tex-100-E</a> material definitions.

2.1. Aggregate. Furnish aggregate of the type and grade shown on the plans and meeting the requirements of Table 1. Each source must meet Table 1 requirements for liquid limit, plasticity index, and wet ball mill for the grade specified. Do not use additives, such as but not limited to lime, cement, or fly ash to modify aggregates to meet the requirements of Table 1 unless shown on the plans.

Table 1 Material Requirements

Property	Test Method	Grade 1–2	Grade 3	Grade 4 <sup>2</sup>	Grade 5
Sampling	<u>Tex-400-A</u>				
Master gradation sieve size (cumulative % retained)					
2-1/2"		0	0		0
1-3/4"	T 440 F	0–10	0–10		0–5
7/8"	<u>Tex-110-E</u>	10–35	-	As shown on	10–35
3/8"		30-65	-	the plans	35-65
#4		45-75	45–75	•	45-75
#40		65–90	50–85		70–90
Liquid Limit, % Max	<u>Tex-104-E</u>	40	40	As shown on the plans	35
Plasticity Index, Max <sup>1</sup>	Tau 10/ E	10	12	As shown on the plans	10
Disstinity index Min1	<u>Tex-106-E</u>	As shown on	As shown on the	As shown on	As shown on
Plasticity index, Min <sup>1</sup>		the plans	plans	the plans	the plans
Wet ball mill, % Max	Toy 114 F	40	-	As shown on the plans	40
Wet ball mill, % Max increase passing the #40 sieve	<u>Tex-116-E</u>	20	-	As shown on the plans	20
Min compressive strength, psi					
lateral pressure 0 psi	Tov 117 F	35	-	As shown on	-
lateral pressure 3 psi	<u>Tex-117-E</u>	-	-	the plans	90
lateral pressure 15 psi		175	-		175

Determine plastic index in accordance with <u>Tex-107-E</u> (linear shrinkage) when liquid limit is unattainable as defined in <u>Tex-104-E</u>.

2.1.1. **Material Tolerances**. The Engineer may accept material if no more than 1 of the 5 most recent gradation tests has an individual sieve outside the specified limits of the gradation.

<sup>2.</sup> Grade 4 may be further designated as Grade 4A, Grade 4B, etc.

When target grading is required by the plans, no single failing test may exceed the master grading by more than 5 percentage points on sieves No. 4 and larger or 3 percentage points on sieves smaller than No. 4.

The Engineer may accept material if no more than 1 of the 5 most recent plasticity index tests is outside the specified limit. No single failing test may exceed the allowable limit by more than 2 points.

- 2.1.2. **Material Types**. Do not use fillers or binders unless approved. Furnish the type specified on the plans in accordance with the following:
- 2.1.2.1. **Type A**. Crushed stone produced and graded from oversize quarried aggregate that originates from a single, naturally occurring source. Do not use gravel or multiple sources.
- 2.1.2.2. Type B. Crushed or uncrushed gravel. Blending of 2 or more sources is allowed.
- 2.1.2.3. **Type C**. Crushed gravel with a minimum of 60% of the particles retained on a No. 4 sieve with 2 or more crushed faces as determined by <u>Tex-460-A</u>, Part I. Blending of 2 or more sources is allowed.
- 2.1.2.4. Type D. Type A material or crushed concrete. Crushed concrete containing gravel will be considered Type D material. Crushed concrete must meet the requirements in Section 247.2.1.3.2., "Recycled Material (Including Crushed Concrete) Requirements," and be managed in a way to provide for uniform quality. The Engineer may require separate dedicated stockpiles in order to verify compliance.
- 2.1.2.5. **Type E**. Caliche, iron ore or as otherwise shown on the plans.
- 2.1.3. **Recycled Material**. Reclaimed asphalt pavement (RAP) and other recycled materials may be used when shown on the plans. Request approval to blend 2 or more sources of recycled materials.
- 2.1.3.1. Limits on Percentage. Do not exceed 20% RAP by weight, when RAP is allowed, unless otherwise shown on the plans. The percentage limitations for other recycled materials will be as shown on the plans.
- 2.1.3.2. Recycled Material (Including Crushed Concrete) Requirements.
- 2.1.3.2.1. Contractor-Furnished Recycled Materials. Provide recycled materials, other than RAP, that have a maximum sulfate content of 3,000 ppm when tested in accordance with <a href="Tex-145-E">Tex-145-E</a>. When the Contractor furnishes the recycled materials, including crushed concrete, the final product will be subject to the requirements of Table 1 for the grade specified. Certify compliance with <a href="DMS-11000">DMS-11000</a>, "Evaluating and Using Nonhazardous Recyclable Materials Guidelines," for Contractor furnished recycled materials. In addition, recycled materials must be free from reinforcing steel and other objectionable material and have at most 1.5% deleterious material when tested in accordance with <a href="Tex-413-A">Tex-413-A</a>. For RAP, do not exceed a maximum percent loss from decantation of 5.0% when tested in accordance with <a href="Tex-406-A">Tex-406-A</a>. Test RAP without removing the asphalt.
- 2.1.3.2.2. **Department-Furnished Required Recycled Materials**. When the Department furnishes and requires the use of recycled materials, unless otherwise shown on the plans:
  - Department-required recycled material will not be subject to the requirements in Table 1,
  - Contractor-furnished materials are subject to the requirements in Table 1 and this Item,
  - the final product, blended, will be subject to the requirements in Table 1, and
  - for final product, unblended (100% Department-furnished required recycled material), the liquid limit, plasticity index, wet ball mill, and compressive strength is waived.

Crush Department-furnished RAP so that 100% passes the 2 in. sieve. The Contractor is responsible for uniformly blending to meet the percentage required.

- 2.1.3.2.3. **Department-Furnished and Allowed Recycled Materials**. When the Department furnishes and allows the use of recycled materials or allows the Contractor to furnish recycled materials, the final blended product is subject to the requirements of Table 1 and the plans.
- 2.1.3.3. **Recycled Material Sources**. Department-owned recycled material is available to the Contractor only when shown on the plans. Return unused Department-owned recycled materials to the Department stockpile location designated by the Engineer unless otherwise shown on the plans.

The use of Contractor-owned recycled materials is allowed when shown on the plans. Contractor-owned surplus recycled materials remain the property of the Contractor. Remove Contractor-owned recycled materials from the project and dispose of them in accordance with federal, state, and local regulations before project acceptance. Do not intermingle Contractor-owned recycled material with Department-owned recycled material unless approved.

- 2.2. **Water**. Furnish water free of industrial wastes and other objectionable matter.
- 2.3. **Material Sources**. Expose the vertical faces of all strata of material proposed for use when non-commercial sources are used. Secure and process the material by successive vertical cuts extending through all exposed strata, when directed.

#### 3. **EQUIPMENT**

Provide machinery, tools, and equipment necessary for proper execution of the work.

- 3.1. Provide rollers in accordance with Item 210, "Rolling." Provide proof rollers in accordance with Item 216, "Proof Rolling," when required.
- 3.2. When ride quality measurement is required, provide a high speed or lightweight inertial profiler certified at the Texas A&M Transportation Institute. Provide equipment certification documentation. Display a current decal on the equipment indicating the certification expiration date.

#### 4. **CONSTRUCTION**

Construct each layer uniformly, free of loose or segregated areas, and with the required density and moisture content. Provide a smooth surface that conforms to the typical sections, lines, and grades shown on the plans or as directed.

Stockpile base material temporarily at an approved location before delivery to the roadway. Build stockpiles in layers no greater than 2 ft. thick. Stockpiles must have a total height between 10 and 16 ft. unless otherwise approved. After construction and acceptance of the stockpile, loading from the stockpile for delivery is allowed. Load by making successive vertical cuts through the entire depth of the stockpile.

Do not add or remove material from temporary stockpiles that require sampling and testing before delivery unless otherwise approved. Charges for additional sampling and testing required as a result of adding or removing material will be deducted from the Contractor's estimates.

Haul approved flexible base in clean trucks. Deliver the required quantity to each 100-ft. station or designated stockpile site as shown on the plans. Prepare stockpile sites as directed. When delivery is to the 100-ft. station, manipulate in accordance with the applicable Items.

4.1. **Preparation of Subgrade or Existing Base**. Remove or scarify existing asphalt concrete pavement in accordance with Item 105, "Removing Treated and Untreated Base and Asphalt Pavement," when shown on

the plans or as directed. Shape the subgrade or existing base to conform to the typical sections shown on the plans or as directed.

When new base is required to be mixed with existing base, deliver, place, and spread the new flexible base in the required amount per station. Manipulate and thoroughly mix the new base with existing material to provide a uniform mixture to the specified depth before shaping.

Proof roll the roadbed in accordance with Item 216, "Proof Rolling," before pulverizing or scarifying when shown on the plans or directed. Correct soft spots as directed.

4.2. Placing. Spread and shape flexible base into a uniform layer with an approved spreader the same day as delivered unless otherwise approved. Construct layers to the thickness shown on the plans. Maintain the shape of the course. Control dust by sprinkling, as directed. Correct or replace segregated areas as directed, at no additional expense to the Department.

Place successive base courses and finish courses using the same construction methods required for the first course

4.3. **Compaction**. Compact using density control unless otherwise shown on the plans. Multiple lifts are permitted when shown on the plans or approved. Bring each layer to the moisture content directed. When necessary, sprinkle the material in accordance with Item 204, "Sprinkling."

Begin rolling longitudinally at the sides and proceed towards the center, overlapping on successive trips by at least 1/2 the width of the roller unit. Begin rolling at the low side and progress toward the high side on superelevated curves. Offset alternate trips of the roller. Operate rollers at a speed between 2 and 6 mph as directed.

Rework, recompact, and refinish material that fails to meet or that loses required moisture, density, stability, or finish requirements before the next course is placed or the project is accepted. Continue work until specification requirements are met. Perform the work at no additional expense to the Department.

Before final acceptance, the Engineer will select the locations of tests and measure the flexible base depth in accordance with <a href="Tex-140-E">Tex-140-E</a>. Correct areas deficient by more than 1/2 in. in thickness by scarifying, adding material as required, reshaping, recompacting, and refinishing at the Contractor's expense.

- 4.3.1. **Ordinary Compaction**. Roll with approved compaction equipment as directed. Correct irregularities, depressions, and weak spots immediately by scarifying the areas affected, adding or removing approved material as required, reshaping, and recompacting.
- 4.3.2. **Density Control**. Compact to at least 100% of the maximum dry density determined by <u>Tex-113-E</u>, unless otherwise shown on the plans. Maintain moisture during compaction within ±2 percentage points of the optimum moisture content as determined by <u>Tex-113-E</u>. Measure the moisture content of the material in accordance with <u>Tex-115-E</u> or <u>Tex-103-E</u> during compaction daily and report the results the same day to the Engineer, unless otherwise shown on the plans or directed. Do not achieve density by drying the material after compaction.

The Engineer will determine roadway density and moisture content of completed sections in accordance with <a href="Mex-115-E"><u>Tex-115-E</u></a>. The Engineer may accept the section if no more than 1 of the 5 most recent density tests is below the specified density and the failing test is no more than 3 pcf below the specified density.

4.4. **Finishing**. After completing compaction, clip, skin, or tight-blade the surface with a maintainer or subgrade trimmer to a depth of approximately 1/4 in. Remove loosened material and dispose of it at an approved location. Seal the clipped surface immediately by rolling with a pneumatic tire roller until a smooth surface is

attained. Add small increments of water as needed during rolling. Shape and maintain the course and surface in conformity with the typical sections, lines, and grades as shown on the plans or as directed.

Correct grade deviations greater than 1/4 in. in 16 feet measured longitudinally or greater than 1/4 in. over the entire width of the cross-section in areas where surfacing is to be placed. Correct by loosening and adding, or removing material. Reshape and re-compact in accordance with Section 247.4.3., "Compaction."

- 4.5. **Curing**. Cure the finished section until the moisture content is at least 2 percentage points below optimum or as directed before applying the next successive course or prime coat.
- 4.6. **Ride Quality**. This section applies to the final travel lanes that receive a 1 or 2 course surface treatment for the final surface, unless otherwise shown on the plans. Measure ride quality of the base course after placement of the prime coat and before placement of the surface treatment, unless otherwise approved. Use a certified profiler operator from the Department's MPL. When requested, furnish the Engineer documentation for the person certified to operate the profiler.

Provide all profile measurements to the Engineer in electronic data files within 3 days after placement of the prime coat using the format specified in <u>Tex-1001-S</u>. The Engineer will use Department software to evaluate longitudinal profiles to determine areas requiring corrective action. Correct 0.1-mi.sections having an average international roughness index (IRI) value greater than 100.0 in. per mile to an IRI value of 100.0 in. per mile or less for each wheel path, unless otherwise shown on the plans.

Re-profile and correct sections that fail to maintain ride quality until placement of the next course, as directed. Correct re-profiled sections until specification requirements are met, as approved. Perform this work at no additional expense to the Department.

#### 5. **MEASUREMENT**

Flexible base will be measured as follows:

- Flexible Base (Complete In Place). The ton, square yard, or any cubic yard method.
- Flexible Base (Roadway Delivery). The ton or any cubic yard method.
- Flexible Base (Stockpile Delivery). The ton, cubic yard in vehicle, or cubic yard in stockpile.

Measurement by the cubic yard in final position and square yard is a plans quantity measurement. The quantity to be paid for is the quantity shown in the proposal unless modified by Article 9.2., "Plans Quantity Measurement." Additional measurements or calculations will be made if adjustments of quantities are required.

Measurement is further defined for payment as follows.

- 5.1. Cubic Yard in Vehicle. By the cubic yard in vehicles of uniform capacity at the point of delivery.
- 5.2. **Cubic Yard in Stockpile**. By the cubic yard in the final stockpile position by the method of average end areas.
- 5.3. **Cubic Yard in Final Position**. By the cubic yard in the completed and accepted final position. The volume of base course is computed in place by the method of average end areas between the original subgrade or existing base surfaces and the lines, grades, and slopes of the accepted base course as shown on the plans.
- 5.4. **Square Yard**. By the square yard of surface area in the completed and accepted final position. The surface area of the base course is based on the width of flexible base as shown on the plans.

5.5. Ton. By the ton of dry weight in vehicles as delivered. The dry weight is determined by deducting the weight of the moisture in the material at the time of weighing from the gross weight of the material. The Engineer will determine the moisture content in the material in accordance with <a href="Tex-103-E">Tex-103-E</a> from samples taken at the time of weighing.

When material is measured in trucks, the weight of the material will be determined on certified scales, or the Contractor must provide a set of standard platform truck scales at a location approved by the Engineer. Scales must conform to the requirements of Item 520, "Weighing and Measuring Equipment."

#### 6. **PAYMENT**

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for the types of work shown below. No additional payment will be made for thickness or width exceeding that shown on the typical section or provided on the plans for cubic yard in the final position or square yard measurement.

Sprinkling and rolling, except proof rolling, will not be paid for directly but will be subsidiary to this Item unless otherwise shown on the plans. When proof rolling is shown on the plans or directed, it will be paid for in accordance with Item 216, "Proof Rolling."

Where subgrade is constructed under this Contract, correction of soft spots in the subgrade will be at the Contractor's expense. Where subgrade is not constructed under this Contract, correction of soft spots in the subgrade will be paid in accordance with pertinent Items or Article 4.4., "Changes in the Work."

- Flexible Base (Complete In Place). Payment will be made for the type and grade specified. For cubic yard measurement, "In Vehicle," "In Stockpile," or "In Final Position" will be specified. For square yard measurement, a depth will be specified. This price is full compensation for furnishing materials, temporary stockpiling, assistance provided in stockpile sampling and operations to level stockpiles for measurement, loading, hauling, delivery of materials, spreading, blading, mixing, shaping, placing, compacting, reworking, finishing, correcting locations where thickness is deficient, curing, furnishing scales and labor for weighing and measuring, and equipment, labor, tools, and incidentals.
- 6.2. **Flexible Base (Roadway Delivery)**. Payment will be made for the type and grade specified. For cubic yard measurement, "In Vehicle," "In Stockpile," or "In Final Position" will be specified. The unit price bid will not include processing at the roadway. This price is full compensation for furnishing materials, temporary stockpiling, assistance provided in stockpile sampling and operations to level stockpiles for measurement, loading, hauling, delivery of materials, furnishing scales and labor for weighing and measuring, and equipment, labor, tools, and incidentals.
- 6.3. Flexible Base (Stockpile Delivery). Payment will be made for the type and grade specified. For cubic yard measurement, "In Vehicle" or "In Stockpile" will be specified. The unit price bid will not include processing at the roadway. This price is full compensation for furnishing and disposing of materials, preparing the stockpile area, temporary or permanent stockpiling, assistance provided in stockpile sampling and operations to level stockpiles for measurement, loading, hauling, delivery of materials to the stockpile, furnishing scales and labor for weighing and measuring, and equipment, labor, tools, and incidentals.