GENERAL NOTES:

- THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE GALVANIZED STEEL DEEP CORRUGATED ARCH STRUCTURE (BRIDGECOR®) AS DETAILED IN THE PLANS. ANY INSTALLATION INFORMATION PROVIDED HEREIN SHALL BE REVIEWED AND APPROVED BY THE ENGINEER. CHANGES AND DISCREPANCIES MUST BE FORWARDED TO THE MANUFACTURER TO BE INCORPORATED IN A REVISED DRAWING SET.
- 2. THE ENGINEER SHALL VERIFY THAT THE PROPOSED STRUCTURE IS APPROPRIATE FOR THE SITE CONDITIONS AND THE DESIGN PARAMETERS ARE CONSISTENT WITH THE PROJECT REQUIREMENTS. ALL ASPECTS OF THE STRUCTURE DESIGN AND SITE LAYOUT NOT EXPLICITLY INCLUDED IN THESE DRAWINGS SHALL BE PROVIDED OR COORDINATED BY THE ENGINEER. THIS MAY INCLUDE BUT IS NOT LIMITED TO: FOUNDATIONS, BACKFILL, END TREATMENTS, HYDRAULIC ANALYSIS AND SCOUR ANALYSIS AS REQUIRED.
- 3. CONTECH PRODUCT DRAWINGS MAY NOT BE USED, REPRODUCED, COPIED, OR ISSUED TO A THIRD PARTY WITHOUT THE PRIOR WRITTEN PERMISSION OF CONTECH ENGINEERED SOLUTIONS.
- 4. ALL DIMENSIONS ARE TO THE INSIDE CREST OF THE CORRUGATION PROFILE UNLESS NOTED OTHERWISE AND ARE SUBJECT TO MANUFACTURING TOLERANCES.
- 5. THE STRUCTURE GEOMETRY, DESIGN, AND MATERIALS AS SHOWN IN THESE DRAWINGS ONLY APPLY FOR BRIDGECOR®, DESIGNED AND FABRICATED BY CONTECH ENGINEERED SOLUTIONS (CONTECH). ALTERNATIVE SYSTEMS SHALL BE FULLY DESIGNED AND APPROVED PRIOR TO BIDDING, WITH SEALED DRAWINGS AND CALCULATIONS PROVIDED TO DEMONSTRATE COMPLIANCE WITH THE SAME GEOMETRY, DESIGN, AND MATERIAL REQUIREMENTS AS SHOWN HEREIN.
- 6. CIRCUMFERENTIAL PLATE LENGTHS ARE IN TERMS OF S = 16 INCHES.
- 7. FOR WATER CONVEYANCE APPLICATIONS THE STRUCTURE MUST MEET HYDRAULIC REQUIREMENTS OF THE SITE AS DETERMINED BY THE ENGINEER. SHEET PILING, INLET AND OUTLET APRONS, CUTOFF WALLS, RIP RAP, AND/OR OTHER MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT LOSS OF ENGINEERED BACKFILL AND/OR FOUNDATION SOILS DUE TO SCOUR. THE EXTENT, SIZE, AND LOCATION OF SCOUR PROTECTION SHALL BE DETERMINED BY THE ENGINEER.
- 8. PERIMETER DRAINAGE, SURFACE DRAINAGE, AND GRADING AROUND THE STRUCTURE SHALL BE DESIGNED, SPECIFIED, SUPPLIED, AND INSTALLED BY OTHERS.

DESIGN PARAMETERS

 DESIGN BY CONTECH ENGINEERED SOLUTIONS IS BASED ON THE FOLLOWING DESIGN CRITERIA:

VEHICLE LIVE LOAD: HL-93

("Canlech") Neither Ih

ion of the

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MINIMUM COVER: 2.0' MAXIMUM COVER: 5.75'

DESIGN UNIT WEIGHT OF ENGINEERED BACKFILL = 120 LBS/FT3.

- 2. ENGINEERED BACKFILL MATERIAL SHALL COMPLY WITH THE ENGINEERED BACKFILL MATERIAL REQUIREMENTS SHOWN IN THESE DRAWINGS.
- 3. DESIGN COVER AND LATERAL EXTENT OF ENGINEERED BACKFILL ZONE SHALL BE AS SHOWN IN THESE DRAWINGS AND REQUIRED BY THE DESIGN STANDARDS REFERENCED IN THESE NOTES, .
- 4. REFERENCE AASHTO LRFD SECTION 12.6.1 FOR SEISMIC DESIGN CONSIDERATIONS.
- STRUCTURE DESIGN BASED ON SITE SOIL INFORMATION PROVIDED IN CONTRACT DOCUMENTS, IF UNEXPECTED SITE SOIL CONDITIONS ARE ENCOUNTERED, CONTECH MUS BE NOTIFIED TO DETERMINE IF DESIGN CHANGES ARE NEEDED.
- 6. TEMPORARY CONSTRUCTION VEHICLE LOADING HEAVIER THAN THE DESIGN VEHICLE LIVE LOAD SHALL NOT BE PERMITTED TO CROSS OVER THE STRUCTURE WITHOUT THE APPROVAL OF CONTECH. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY CONTECH OF THE SIZE, TYPE AND WEIGHT OF ANY CONSTRUCTION VEHICLES INTENDED TO CROSS OVER THE STRUCTURE.

6/30/2022

DATE

MARK

REVISED PER REVIEWER COMMENTS

REVISION DESCRIPTION

BRIDGECOR STEEL BOX STERLING RANCH ROAD- CO SPRINGS COLORADO SPRINGS, CO

HESE DRAWINGS		Provide st	andard				
CH ENGINEERED		signature	blocks				
TIONS PROVIDED TO MATERIAL		U					
							>
	Design Engineer's Statement:						
HYDRAULIC	These detailed plans and specifi	cations wore propared	lundor my diroction	ond supervision		38°	
T PILING, INLET	Said plans and specifications ha	ve been prepared acc	ording to the criteria e	established by the		Ì	1
LL AND/OR	County for detailed roadway, dra and said plans and specification					ĺ	
OF SCOUR	master transportation plans. Sa particular roadway and drainage	id plans and specificat	ions meet the purpos	es for which the			-7
E STRUCTURE	knowledge and belief. I accept i	esponsibility for any li	ability caused by any	negligent acts,			L
S	errors or omissions on my part in	n preparation of these	detailed plans and sp	ecifications.		/	50
	[Name, P.E. #]		Date				
DWING DESIGN	[Name, T.L. #]					3'-1"	
	Owner/Developer's Statement:						
	I, the owner/developer have read	d and will comply with	the requirements of t	he grading and			
	erosion control plan and all of th specifications.	e requirements specifi	ędsin these detailed r	plans and		1	
	specifications.						
ED BACKFILL	[Name, Title]	NOTES:	Date			/	
SHALL BE AS	[Business Name] [Address]		RE TO THE INSIDE CRESTS		3		
DS REFERENCED IN	[//////////////////////////////////////		SUBJECT TO MANUFACTUR . PLATE LENGTHS ARE IN T				
	El Paso County:						
DERATIONS.	County plan review is provided of	only for general confor	mance with County D	esian Criteria. The			
ONTRACT ED, CONTECH MUST	County is not responsible for the elevations which shall be confirm	accuracy and adequa	acy of the design, dim	ensions, an <u>d/or</u>			
	document assumes no responsi			· · · · · · · · · · · · · · · · · · ·	BRIDGECOR STEE NSIDE END AREA	= 355 ft ²	
SIGN VEHICLE LIVE	Filed in accordance with the req				TOTAL S = 3	.7	
HOUT THE NOTIFY CONTECH	Drainage Criteria Manual, Volun	nes 1 and 2, and Engir	eering Criteria Manu	al as amended.			
ENDED TO CROSS	In accordance with ECM Section	1.12, these construct	ion documents will be	e valid f&TRUCT	URE CRC	SS-SECTION	
	construction for a period of 2 year construction has not started with	in those 2 years, the p	plans will need to be r	esubmitted for			
	approval, including payment of r Directors discretion.	eview fees at the Plan	ning and Community	Development			
	County Engineer / ECM Adminis	trotor	Date				
			Dale				
		FC	OR APPROVAL				
	C WENTER					BRIDGECOR ST	EE
			dgeC%r	- X-		38'-1" SPAN X 1 ²	
	FIADUALEVED DOFOLIOND						

CONTECH

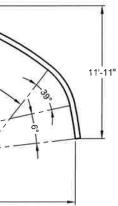
CONTRACT

DRAWING

www.ContechES.com

9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069

800-338-1122 513-645-7000 513-645-7993 FAX





CDR-22-006

BRIDGECOR STEEL BOX	PROJECT No.: SEQ.I 705931 01		117	DATE: 4/6/2022	
38'-1" SPAN X 11'-11" RISE	DESIGNED: XXX		DRAWN: SCC		
STERLING RANCH ROAD- CO SPRINGS		A	APPROVED: XXX		
COLORADO SPRINGS, CO	SHEET NO :	1	OF	8	