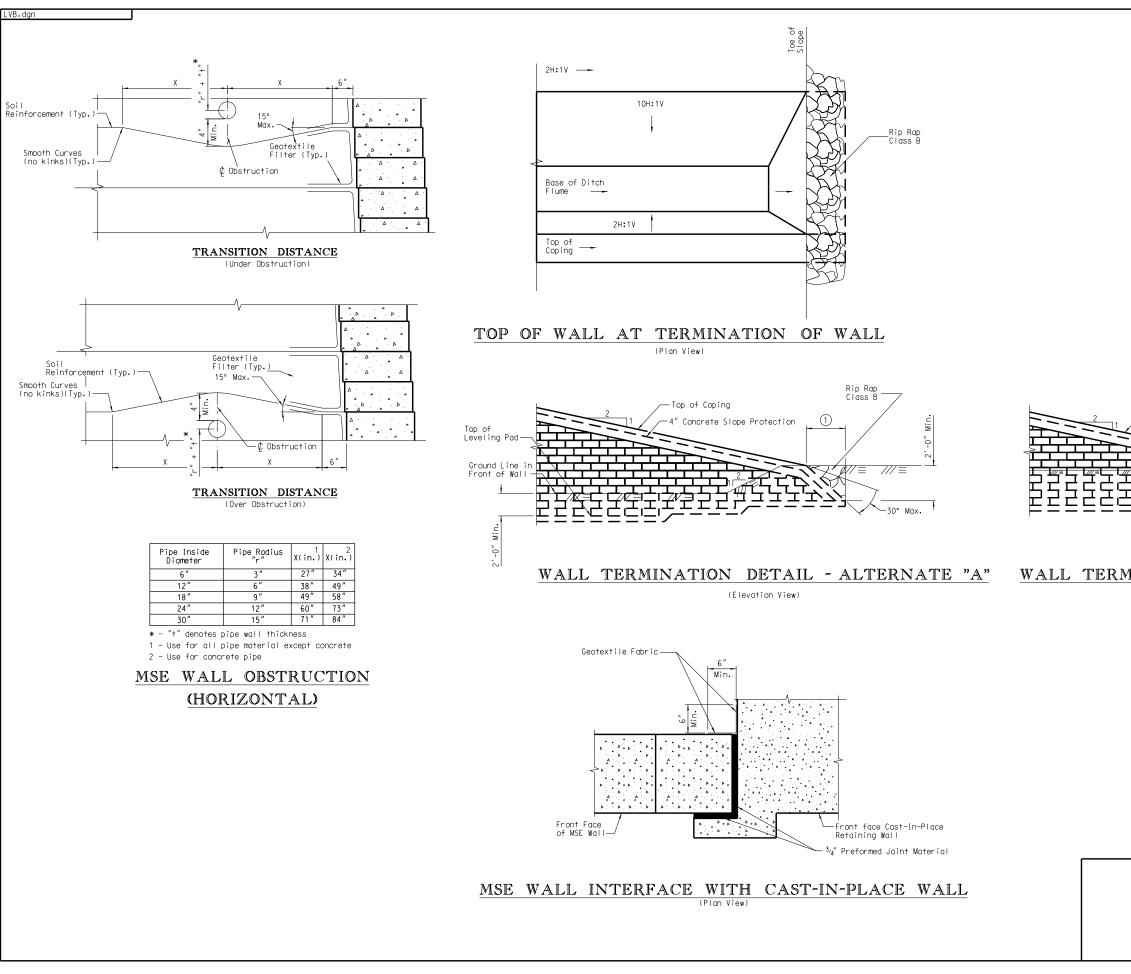
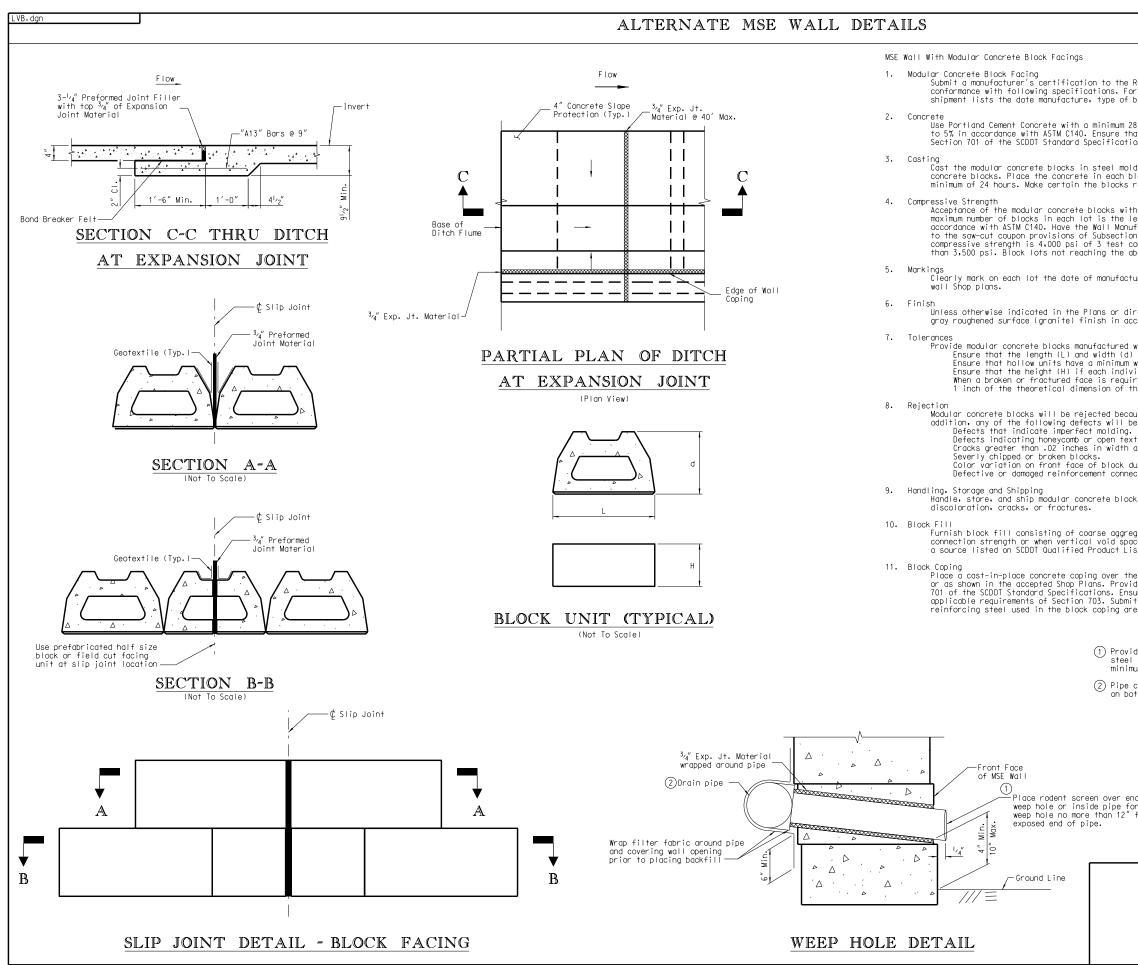


BRIDGE PLANS ID NO XXXXXXX-BX ХХ Design in accordance with the SCDDT Supplemental Design criteria for Low Volume Bridge Replacement Projects. Construct wall in accordance with Sections 3 and 4 of Supplemental Technical Specification SC-M-713. Use Sections 5 and 6 of Use granular backfill material with a gradation in accordance with the following Ensure that the granular back fill and block fill have the following properties: pH Values between 3.0 and 9.0 for polyester, and pH values greater than 3.0 for polypropylene and high density polyethylene. For granular backfill, determine pH values in accordance with AASHTO 1289. For block fill, prepare sample as follows: Obtain approximately 2-1/2 pounds of representative material. Transfer the sample into a 1 gallon wide mouth plastic jug. Add an equal weight of deionized or distilled water to the sample and let the mixture sit for approximately 30 minutes. At the end of this period, place a lid on the container and vigourously agitate the mixture for 3 minutes. Repeat agitation 2 hours after the initial agitation and again 4 hours after the initial agitation. After the agitation at the 4- hour time interval, allow the sample to sit foe approximately 20 hours to allow for any solids to settle out. After the sampler sits for 20 hours, remove a sufficient amount of the solution and filter through a coarse paper (such as Fisher 08) to obtain the supernate to be analyzed. Analyze the supernate according to ASIM D1293 and ASIM D1125 Organic content not to exceed 1.0 percent (weight of organic material to weight of total sample) as determined by Internal friction angle not less than 32 degrees as determined by the standard direct shear test (AASHTO T236) or the triaxial test (AASHTO T297) on the portion passing the NO. 10 sieve. Compact material test samples to 95% (AASHTO T99. Method C or D) of maximum density at optimum moisture content. For granular material, Coefficent of uniformity, Cu, that is greater than 4 but less than 20. Compute the Coefficent $C_{II} = D_{60} / D_{10}$ Plasticity Index (PI) less than or equal to 6 and the Liquid Limit (LL) less than or equal to 30 as determined by AASHTO T90 Classified as well-graded in accordance with the Unified Soil Clasification System (USCS) in ASTM D2487. The reinforced backfill material shall not be gap-graded. 6. For 4" concrete slope protection ditches, provide Class 2500 concrete. Any portion of wall coping sloped at 2H:1V or steeper must be cast-in-place concrete and anchored with dowels. In Do not attach traffic barrier, pedestrian railing, or moment slab to MSE wall facing or wall coping. Do not place guardrail posts through soil reinforcement. No vertical obstructions are allowed in the Reinforceed Backfill. If vertical obstructions are required in Reinforced Backfill then this design is no longer applicable. To ensure that the wall does not have a negative slope or batter (Slope outward from the face) after completion of construction, use a batter of linck (horizontal) in 60 inches (vertical) (14:601). Monitor the actual movement of blocks during the placement and compaction of each lift of backfill and adjust the amount of batter as needed according to field conditions. In accordance with Supplemental Technical Specification SC-M-713, walls constructed with negative batter are not acceptable.

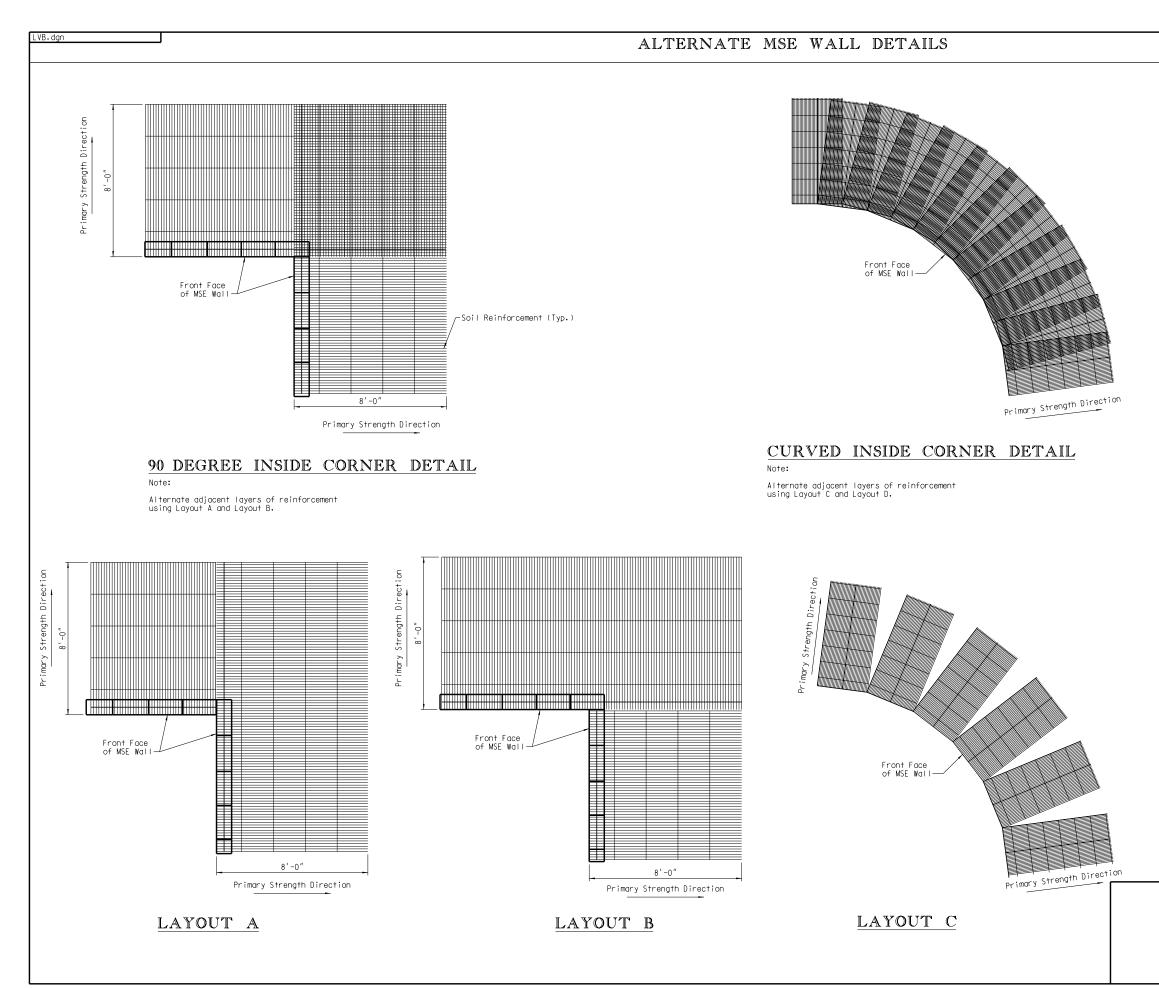
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	REV.				FLEXIBLE GRAVITY WALL WITH BLOCK FACE FOR		
	REVIEWED				LOW VOLUME BRIDGE		
	QUAN.				REPLACEMEN	TS	
	DR.	ACB	NEH	03-18	(1 OF 5)		
	DES.				COUNTY	ROUTE	
		BY	СНК.	DATE	XXXXXXXX	XXXXXX	

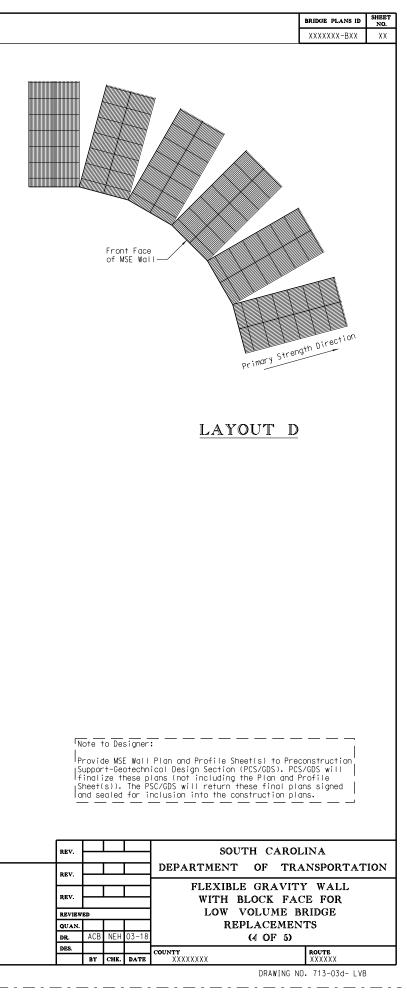


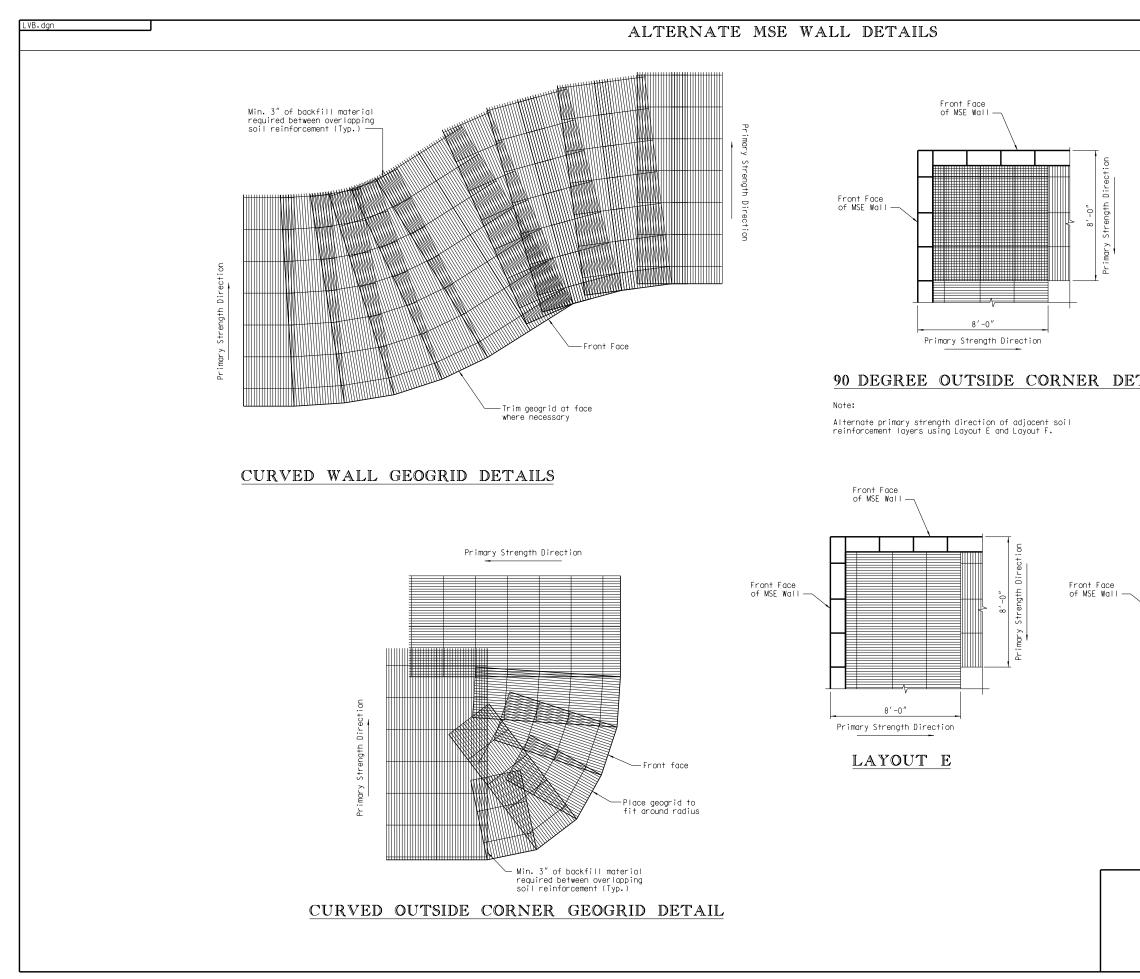
							BRIDGE PLANS ID	SHEET NO.
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					of coping must be cast-i		J	
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	1				r: I Plan and Profile Shee	t(s) to Pr	econstruction	
		Suppo fina	ort-G Lize	eotech these	nical Design Section (P plans (not including th	CS/GDS). F e Plan and	PCS/GDS will 1 Profile	
	1	Shee-	t(s))	. The	PSC/GDS will return the inclusion into the cons	se final p	lans sianed	
					Rip Rap			
Top of		-			Class B	/		
4" Conc	rete S	lope	Prot	ection	/	/		
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	DR. DES.	ACB	NEH	03-18		2 OF 5)	1	
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						DRAWING N	NO. 713-03b-LVB	



	BRIDGE PLANS ID	SHEET
	XXXXXXX-BXX	NO. X X
he RCE that the modular concrete blocks for each lot shipped are in For each particular lot shipped, ensure that the certification for eac of block, the average compressive strength, and the water absorption.	h	
m 28 day compresive strength of 4,000 psi. Limit maximum water absorpti that admixtures confrm to the requirements in applicable subsections c ations.		
molds and in a manner that will ensure the production of uniform modulo h block without interruption and consolidate. Steam cure the blocks for ks reach a minimum compressive strength of 4,000 psi before being shipp	a	
with respect to compressive strength is determined on a per lot basis. e lesser of 2,000 or a single day's production. Randomly sample the lot anufacturer perform compressive strength tests on test specimens that c tion 5.2.4 of ASTM C140. Block lots will be approved when the average t coupons and with no individual test having a compressive strength of e above requirements will be rejected.	· in conform	
acture, lot number, and type of block in accordance with the approved ${\tt W}$	ISE	
directed by the RCE, provide on the front face of the blocks a natural accordance with Standard Drawing 701-950-01.		
ed within the following tolerances: (d) of each individual block is within 1/8 inch of the specified dimens	sion	
um wall thickness of 1-1/4 inch. dividual block is within 1/16 inch of the specified dimension. quired, ensure that the horizontal dimensions of the front face is with f the individual block shown in the Plans.	iin	
ecause of failure to meet any of the requirements specified above. In I be sufficient to cause for rejection: ng.		
texture concrete. th and longer than 25% of the height of the block.		
k due to excess from oil or other reasons. nnection devices built into the modular concrete block.		
locks in such a manner as to eliminate the dangers of chipping,		
gregate No. 67 or 6M when the modular concrete block requires a block f spaces exist within the modular concrete block. Obtain coarse aggregate List 2.		
the upper most level of modular concrete blocks as indicated in the Pl ovide Class 4000 concrete conforming to applicable subsections of Secti Ensure that fabrication and placement of reinforcing steel conforms to bmit a manufacturer's certification to the RCE that the concrete and are in conformance with these specifications.	on	
ovide rodent screen manufactured from T304 stainless steel or galvanize eel with a minimum wire diameter of 0.050". Provide rodent screen with nimum of 2 openings per inch and a maximum of 4 openings per inch.	ed	
pe continuous along wall length. Extend pipe 1'-0" beyond last weep hol both ends and cap.	e	
Note to Designer: Provide MSE Wall Plan and Profile Sheet(s) to Prec Support-Geotechnical Design Section (PCS/GDS). PCS finalize these plans (not including the Plan and P Sheet(s)). The PSC/GDS will return these final pla and sealed for inclusion into the construction pla	S/GDS will Profile ons signed	
end of forming 2" from		
REV. SOUTH CAROL		
	LINA ANSPORTAT	ION
REV. FLEXIBLE GRAVIT WITH BLOCK FAC		
REVIEWED LOW VOLUME B	RIDGE	
DR. ACB NEH 03-18 (3 OF 5)	-	
BY CHK. DATE COUNTY XXXXXXXX	ROUTE XXXXXX	
DDAWING N	0. 713-03c- LVB	







²rinted: Friday, March 30, 2018 10:34:53

TAIL Front-Face Provide MSE Well Plan and Profile Sheetish to Preconstruction Support-Section into the construction plane. South is a section into the construction plane. TAIL Front-Face of MSE Wall Primery Strangth Direction LAYOUT F Mark AND MENDING MARKEN OF TRANSPORTATION PLEXIBLE GRAVITY WALL WITH BLOCK FACE FOR REPLACEMENTS 6 OF 50 REPLACEMENTS 6 OF 50 REPLACEMENT 6 OF 50 REPLACEMENT 8 OF 50 REPLACEMENT 8 OF 50 8				BRIDGE PLANS ID	SHEET NO.
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Primary Strength Direction	 Pro Sup fin _She	ovide MSE Wall P port-Geotechnic nalize these pla pet(s)). The PSC	al Design Section (PCS/GDS), PCS/ ns (not including the Plan and Pr /GDS will return these final plan	GDS will ofile s signed	
REV. DEPARTMENT OF TRANSPORTATION REV. FLEXIBLE GRAVITY WALL REV. WITH BLOCK FACE FOR QUAN. LOW VOLUME BRIDGE DR. ACB NEH 03-18 (5 OF 5) DES. COUNTY ROUTE	of MSE Wall -		Strength		
REV. DEPARTMENT OF TRANSPORTATION REV. FLEXIBLE GRAVITY WALL REV. WITH BLOCK FACE FOR QUAN. LOW VOLUME BRIDGE DR. ACB NEH 03-18 (5 OF 5) DES. COUNTY ROUTE					
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REV. WITH BLOCK FACE FOR REVIEWED LOW VOLUME BRIDGE QUAN. REPLACEMENTS DR. ACB NEH DES. COUNTY ROUTE	REV.				
QUAN. REPLACEMENTS DR. ACB NEH 03-18 (5 OF 5) DES. COUNTY ROUTE			WITH BLOCK FA	CE FOR	
DES. COUNTY ROUTE		ED			
COUNTY ROUTE	DR.	ACB NEH 03-18	(5 OF 5)		
	DES.	BY CHK. DATE	COUNTY XXXXXXXX	ROUTE XXXXXX	

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