



STERLING

ENGINEERING, INC.

CONSULTING
LAND SURVEYING
LAND PLANNING

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COUNTY,

BLOUNT CO

H MUNITY CHURCI

CHURCH CALVARY COMMI

BY REVISIONS

AGRICULTURE REPAIR OF TENNISHING

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SHEET CP 1

 DESIGNED:
 RDR

 DRAWN:
 CLS

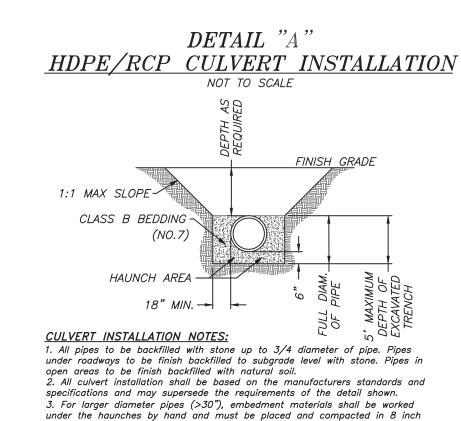
 CHECKED:
 CLS

 DATE:
 9/30/24

 SCALE:
 1" = 30'

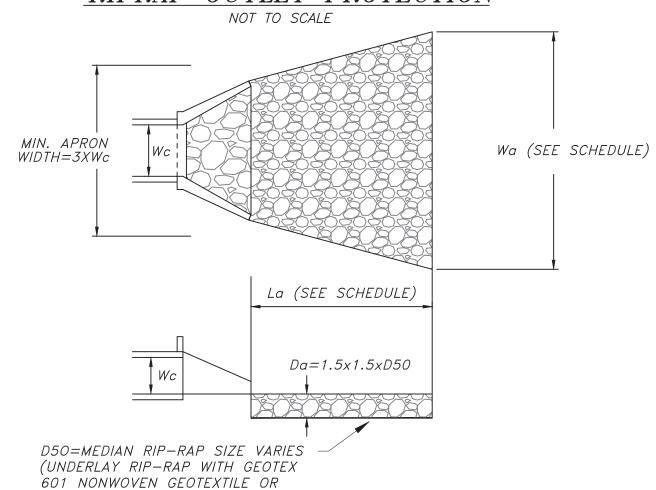
DRAWING: **6323A-CP** 

PROJECT NO: SEI#6323A



maximum lifts, compacted to 90% standard proctor density.

# DETAIL "B" RIPRAP OUTLET PROTECTION



RIPRAP APRON SCHEDULE							
STRUCTURE NUMBER	PIPE DIAMETER (IN)	FLOW (CFS)	TAILWATER CONDITION	La (FT)	Wa (FT)	D50 (IN)	
1	15	2(Q25)	LOW	8	10	6	
3	15	5(Q25)	LOW	8	10	6	

APPROVED EQUAL, ANCHORED)

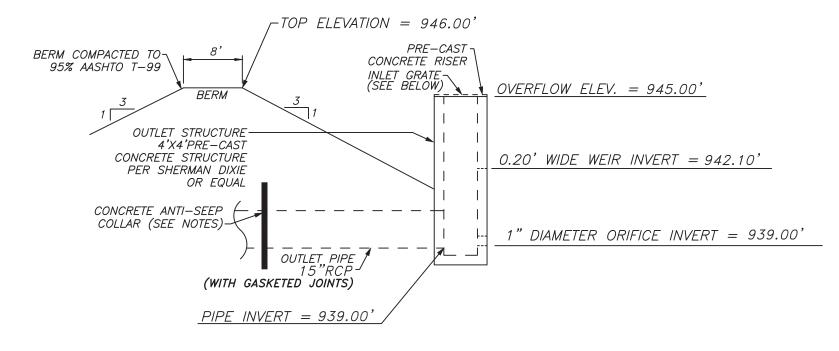
## SECTIONA-ADRAINAGE CHANNEL NOT TO SCALE MATTED AND GRASSED NOTE: Matting shall be North American Green RollMax VMax S200 or approved equal and shall be installed at 4' wide. SECTION A—A DRAINAGE CHANNEL

DRAINAGE STRUCTURE SCHEDULE							
STRUCTURE NUMBER	STRUCTURE TYPE	LOCATION	TOP ELEVATION	INVERT IN	INVERT OUT	NOTE	
1	EDHW	_	_	_	938.50		
2	OFS	-	_	_	_	SEE DETAIL	
3	EDHW	-	_	_	944.00		
4	CB	-	949.75	945.50	945.50		
5	CB	-	949.75	945.75	945.75		
6	HW	-	_	950.50	_		

NOTES: HW=CONCRETE HEADWALL EDHW=ENERGY DISSIPATING HEADWALL CB=CATCH BASIN
OFS=OVERFLOW STRUCTURE

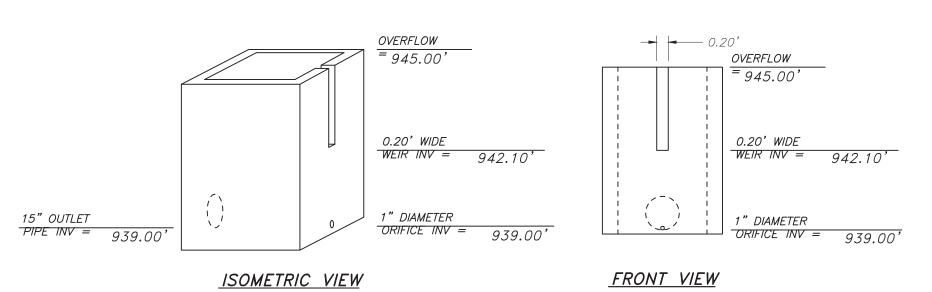
## DETENTION POND OUTLET BOX

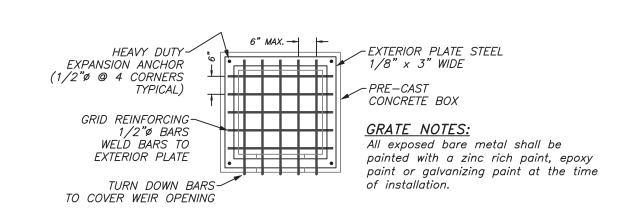
NOT TO SCALE



ANTI-SEEP COLLAR NOTES: ASC (Anti-Seep Collar): The anti-seep collars shall be constructed of cast in place concrete. The collar shall be poured around the pipe and shall be a minimum of 12" larger than the outside diameter of the pipe and 12" thick. The contractor shall install the position the collar such that it does not interfere with a pipe joint.

POND OUTLET PIPE INSTALLATION: The pond outlet pipe shall be laid and backfilled with suitable compacted soil with no gravel bedding or gravel in

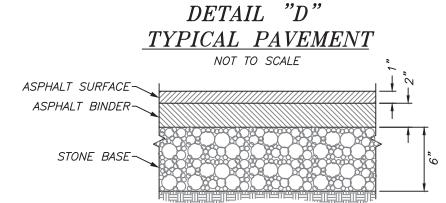


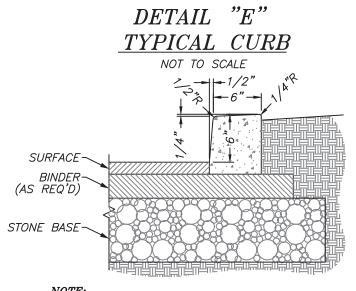


DETAIL "C" DETENTION POND 1 REMOVABLE INLET GRATE DETAIL

PIPE SCHEDULE								
NUMBER	LOCATION	MATERIAL	LENGTH	SIZE	SLOPE (%)	NOTE		
1	1-2	RCP	44.3'	15"	1.13			
2	2-3	HDPE	18.3'	15"	8.20			
3	3-4	HDPE	22.2'	15"	1.13			
4	4-5	HDPE	37.7'	15"	12.60			

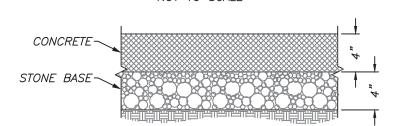
**NOTES:**1. Pipe lengths shown are from center of structure. 2. Detention Pond outlet pipes shall be RCP with gaskets in the joints.





Concrete curb shall be minimum 3500 PSI.

### DETAIL "F" TYPICAL SIDEWALK NOT TO SCALE

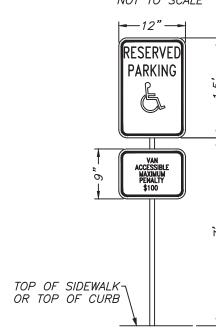


NOTES:

1. Expansion joints are to be placed 25 to 30 feet apart depending on transverse joint markings and the need to match curb expansion joint where sidewalk is built directly against curb.

2. Concrete joint material to be flush with the sidewalk surface, half inch and/or one inch premolded fiber in accordance with TDOT standard specifications. 3. One inch expansion joints are to be placed where the proposed sidewalk is in contact with circular curbs.
4. Half inch expansion joints are to be used at all other locations.
5. Transverse joint markings are to be made to form blocks as nearly to square as practical and are top be placed at 5 feet apart.
6. Concrete is to be a minimum of 4000 psi
7. Stone base shall be grading D





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DMMONIT

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DESIGNED: CLS DRAWN: **CLS** CHECKED: 9/30/24 1" = 30'DRAWING:

PROJECT NO: SEI#6323A

6323A-CP