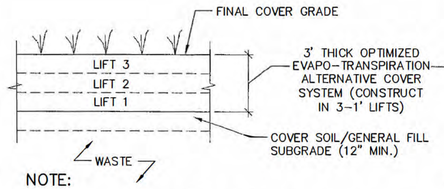
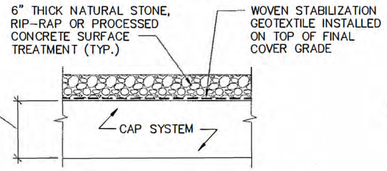


NOTE:

REFER TO SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND REQUIREMENTS FOR VEGETATIVE COVER.

FINAL COVER CAP DETAIL

NOT TO SCALE

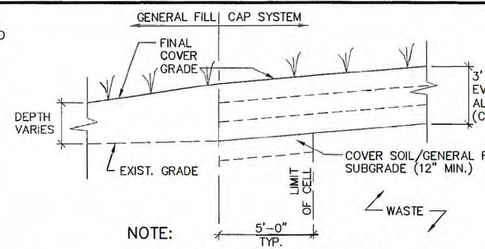


NOTE:

REFER TO SPECIFICATIONS FOR STONE LAYER GRADATION REQUIREMENTS.

ROCK SURFACE TREATMENT

NOT TO SCALE



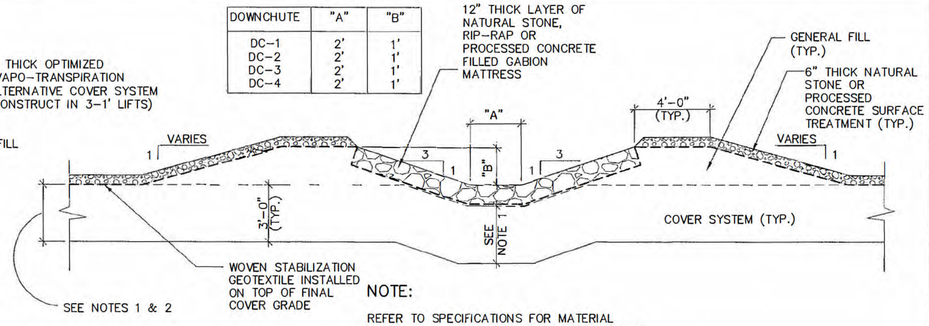
NOTE:

REFER TO SPECIFICATIONS FOR COMPACTION REQUIREMENTS AND REQUIREMENTS FOR VEGETATIVE COVER.

TYPICAL CAP TERMINATION DETAIL

NOT TO SCALE

DOWNCHUTE	"A"	"B"
DC-1	2'	1'
DC-2	2'	1'
DC-3	2'	1'
DC-4	2'	1'

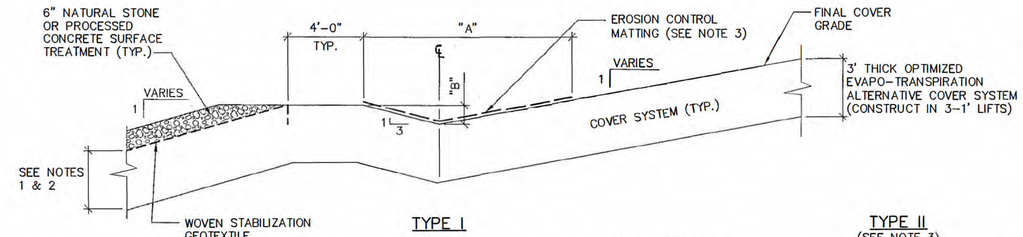


NOTE:

REFER TO SPECIFICATIONS FOR MATERIAL PROPERTIES AND COMPACTION REQUIREMENTS.

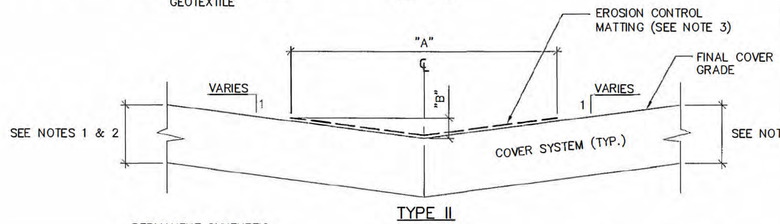
DOWNCHUTE DETAIL

NOT TO SCALE



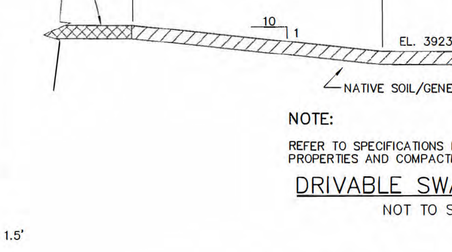
TYPE I

TYPE I (SEE NOTE 3) SWALE	"A"	"B"
DS-1A	6'	1'
DS-1B	6'	1'
DS-1C	6'	1'
DS-1D	6'	1'
DS-1E	6'	1'
DS-1F	6'	1'
DS-3A	6'	1'
DS-SDA	6'	1'
DS-SDB	6'	1'



TYPE II

TYPE II (SEE NOTE 3) SWALE	"A"	"B"
DS-3B	20'	2'
DS-4A	20'	2'
DS-4B	20'	2'
DS-4C	20'	2'
DS-4D	20'	2'

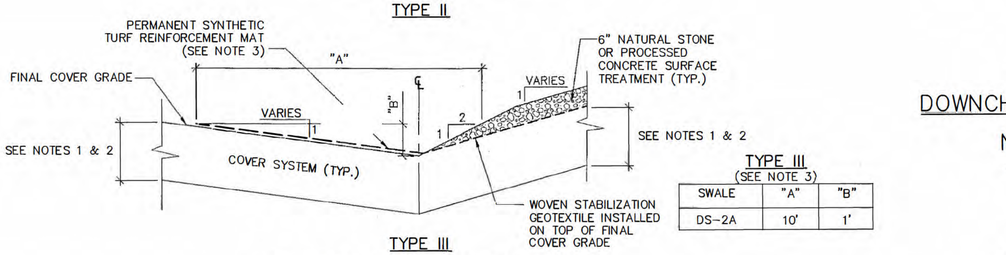


NOTE:

REFER TO SPECIFICATIONS FOR MATERIAL PROPERTIES AND COMPACTION REQUIREMENTS.

DRIVABLE SWALE DETAIL

NOT TO SCALE



TYPE III

TYPE III (SEE NOTE 3) SWALE	"A"	"B"
DS-2A	10'	1'

DIVERSION SWALE DETAILS

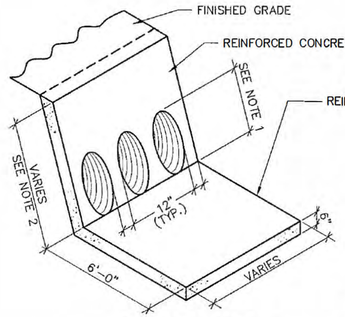
NOT TO SCALE

DOWNCHUTE DISSIPATION APRON DETAIL

NOT TO SCALE

NOTES:

1. THE SUBGRADE FOR THE FILTER, RIP-RAP, OR GABION SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES. ANY FILL REQUIRED IN THE SUBGRADE SHALL BE COMPACTED TO A DENSITY APPROXIMATED THAT OF THE SURROUNDING UNDISTURBED MATERIAL.
2. THE NATURAL STONE OR PROCESSED CONCRETE SHALL CONFORM TO SPECIFIED GRADING LIMITS WHEN INSTALLED RESPECTIVELY IN THE RIP-RAP OR FILTER.
3. GEOTEXTILE SHALL BE PROTECTED FROM PUNCHING, CUTTING OR TEARING ANY DAMAGE OTHER THEN AN OCCASIONAL SMALL HOLE SHALL BE REPAIRED BY PLACING ANOTHER PIECE OF GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE OVER THE DAMAGED PART OR BY COMPLETELY REPLACING THE GEOTEXTILE. ALL OVERLAPS WHETHER FOR REPAIRS OR FOR JOINING TWO PIECES OF GEOTEXTILE SHALL BE A MINIMUM OF ONE FOOT.



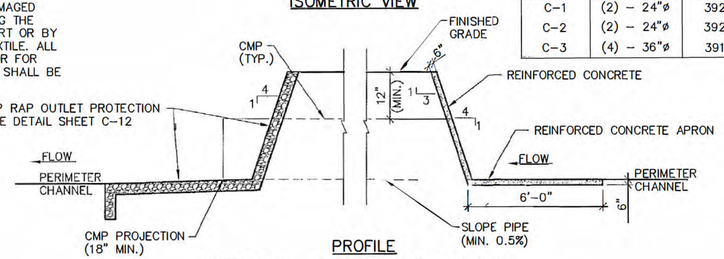
ISOMETRIC VIEW

TYPICAL CULVERT NOTES:

1. THE NUMBER OF CMP AND SIZE VARIES BY CHANNEL.
2. HEAD WALL SHALL EXTEND TO TOP OF FINAL GRADE AND SLOPED TO MATCH CHANNEL CROSS SECTION.

CULVERT TABLE

CULVERT. NO.	(#) PIPES & SIZE (CMP)	INVERT IN	INVERT OUT	LENGTH (FT)
C-1	(2) - 24"ø	3925	3924.75	50
C-2	(2) - 24"ø	3923	3922.75	50
C-3	(4) - 36"ø	3918	3917.63	75

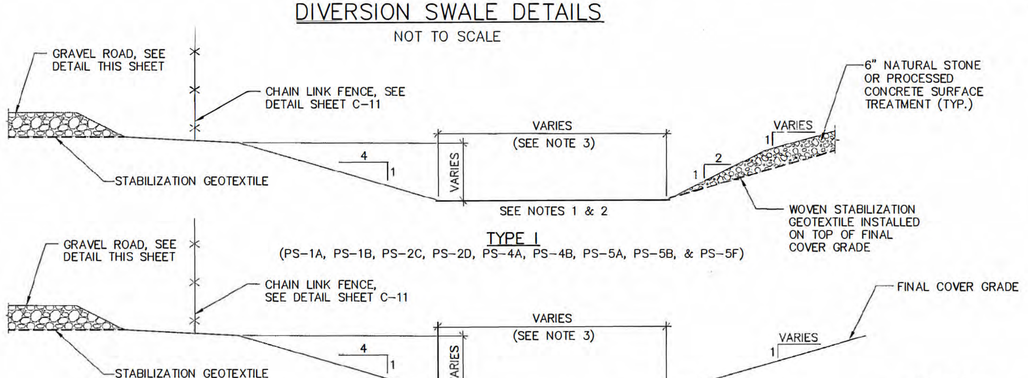


PROFILE

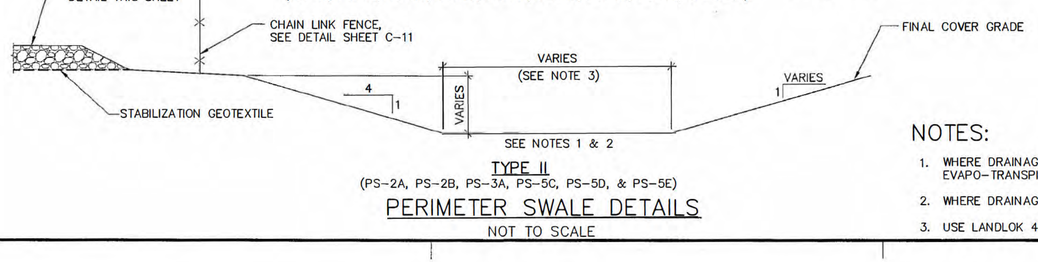
TYPICAL CULVERT DETAIL

NOTES:

1. WHERE DRAINAGE STRUCTURE FALLS WITHIN CELL LIMITS, STRUCTURE SHALL BE BUILT ON TOP OF THE 3' THICK OPTIMIZED EVAPO-TRANSPIRATION ALTERNATIVE COVER SYSTEM.
2. WHERE DRAINAGE STRUCTURE FALLS OUTSIDE CELL LIMITS, STRUCTURE SHALL BE BUILT ON TOP OF GENERAL FILL MATERIAL.
3. USE LANDLOK 435 EROSION CONTROL MATTING OR EQUAL.



TYPE I
(PS-1A, PS-1B, PS-2C, PS-2D, PS-4A, PS-4B, PS-5A, PS-5B, & PS-5F)



TYPE II
(PS-2A, PS-2B, PS-3A, PS-5C, PS-5D, & PS-5E)

PERIMETER SWALE DETAILS

NOT TO SCALE

NO.	DATE	DESCRIPTION
C	10/01/14	REVISED FOR ATC

Sealed for Permitting Purposes Only

DESIGNED BY: TAM
DRN BY: DWEAH
SUBMITTED BY:
PLOT SCALE:
SIZE: ANSI D
DATE: JULY 2022
SOLICITATION NO.:
CONTRACT NO.:
PLOT DATE: 7/6/2022
FILE NAME: 300686\9A-PERMIT-C07.dwg
FILE NUMBER:

U.S. ARMY CORPS OF ENGINEERS
REGIONAL PLANNING AND ENVIRONMENTAL CENTER
FORT WORTH, TEXAS

FORT BLISS MUNICIPAL SOLID WASTE LANDFILL
PERMIT MODIFICATION APPLICATION-
OPTIMIZED EVAPO-TRANSPIRATION (ET)
ALTERNATIVE COVER SYSTEM

TYPICAL CAP & DRAINAGE DETAILS

SHEET IDENTIFICATION
C-7
SHEET 10 OF 12

USER: CZORN FILENAME: O:\USERS\CZORN\ACCDOCS\[illegible]\PROJECT FILES\9_WP\PERMIT_FIGURES\300686989A-PERMIT-C07.DWG SAVE DATE: 7/6/2022 9:53 AM PLOT DATE: 7/6/2022 9:53 AM