

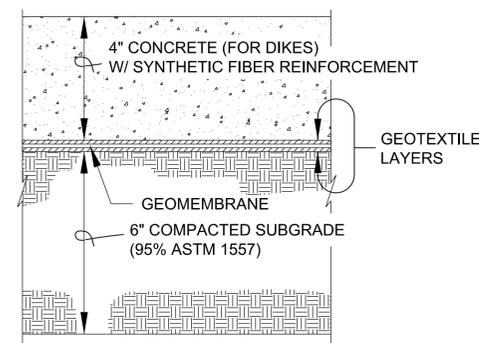
**TYPICAL SECTION - SPILL CONTAINMENT DIKES**

SCALE: NONE

1  
C.02 | CD.03

**GENERAL NOTES:**

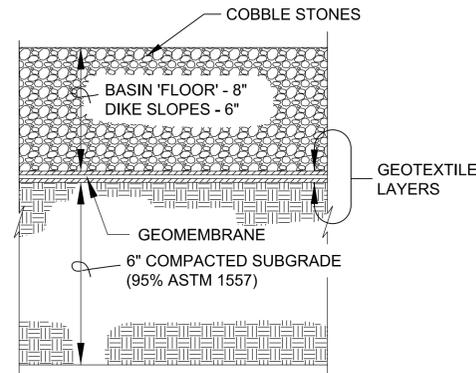
1. ALL CONCRETE SHALL BE REINFORCED WITH SYNTHETIC FIBER REINFORCEMENT. ADDITIONAL STEEL REINFORCEMENT SHALL BE PROVIDED, WHERE INDICATED ON THE JOINT LAYOUT PLAN. SEE SPECIFICATIONS SECTION 32 13 15.20 CONCRETE PAVEMENT FOR CONTAINMENT DIKES FOR CONCRETE AND REINFORCEMENT REQUIREMENTS.
2. PROVIDE A GEOMEMBRANE BOOT FOR ALL CIRCULAR GEOMEMBRANE PENETRATIONS. ALL SMALL LINER PENETRATIONS SHALL BE CIRCULAR TO ACCOMMODATE A BOOT SEAL.
3. ALL CONCRETE JOINTS SHALL BE SEALED PER SPECIFICATIONS SECTION 32 01 19 FIELD MOLDED SEALANTS FOR SEALING JOINTS IN RIGID PAVEMENTS. SEE SHEET C.04 FOR THE JOINT LAYOUT PLAN.
4. A GEOTEXTILE SHALL BE INSTALLED BELOW AND ABOVE THE GEOMEMBRANE. SEE SPECIFICATION SECTION 33 56 63 FUEL IMPERMEABLE LINER SYSTEM. THE GEOMEMBRANE AND GEOTEXTILE SHALL BE PROTECTED FROM DAMAGE AT ALL TIMES, AS SPECIFIED.
5. THE SURFACE UNDERLYING THE GEOTEXTILE/GEOMEMBRANE SHALL BE SMOOTH AND FREE OF ROCKS LARGER THAN 1/2" IN DIAMETER OR ANY OTHER MATERIAL WHICH WOULD DAMAGE THE GEOMEMBRANE LINER.
6. GEOMEMBRANE ANCHORAGE / EMBEDMENT STRIP MATERIALS AND INSTALLATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE GEOMEMBRANE.
7. ROCK BALLAST MATERIAL SHALL BE CLEAN 1-1/2" TO 3" SMOOTH COBBLE STONES. THE ROCK BALLAST LAYER SHALL BE COMPACTED WITH TWO PASSES OF A WALK-BEHIND VIBRATORY ROLLER.



**TYPICAL LINER SECTION  
CONCRETE WORKING SURFACE**

SCALE: NONE

2  
CD.03 | CD.03



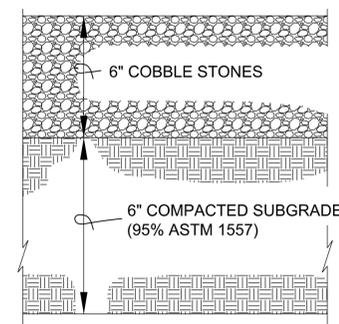
**TYPICAL LINER SECTION  
DIKE INTERIOR AND BASIN (W/ LINER)**

SCALE: NONE

3  
CD.03 | CD.03

**DESIGNER NOTES:**

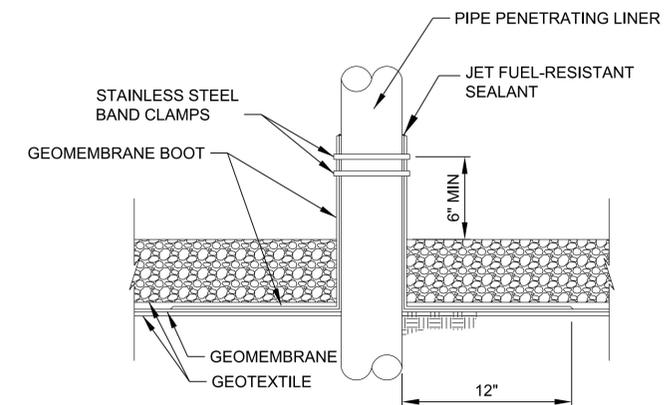
1. THE GEOTEXTILE LAYERS ARE PROVIDED TO PROTECT THE GEOMEMBRANE DURING AND AFTER CONSTRUCTION. THE BOTTOM GEOTEXTILE LAYER MAY BE OMITTED IF THE SUBGRADE SOIL IS KNOWN TO BE FREE OF ROCKS OR OTHER MATERIALS THAT COULD POTENTIALLY DAMAGE THE GEOMEMBRANE.



**TYPICAL LINER SECTION  
DIKE EXTERIOR WALLS (W/O LINER)**

SCALE: NONE

4  
CD.03 | CD.03



**PIPE PENETRATION DETAIL (GRAVEL)**

SCALE: NONE

DATE	DESCRIPTION	BY	APPR



US ARMY CORPS  
OF ENGINEERS  
OMAHA DISTRICT

APPROVED	A/E INFO
FOR COMMANDER NAFAC	
ACTIVITY	
SATISFACTORY TO	
DES RLG	DRW RLG
CHK	ELB
SUBMITTED BY:	
DATE:	APRIL 2015

NAVAL FACILITIES ENGINEERING COMMAND - ATLANTIC  
DOD STANDARD DESIGN AW78-24-27  
**FUEL TANKS WITH FIXED ROOFS  
ABOVEGROUND VERTICAL STEEL**  
DIKE DETAILS - GRAVEL BALLAST

SCALE:	AS NOTED
PROJECT NO.:	XXXXX
CONSTR. CONTR. NO.	XXXXX
NAFAC DRAWING NO.	XXXXX
SHEET	13 OF 57

**CD.03**