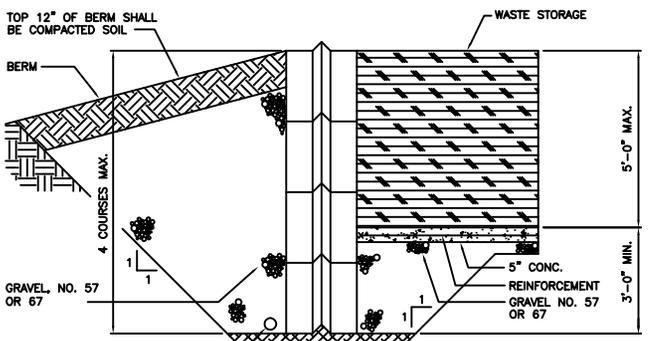
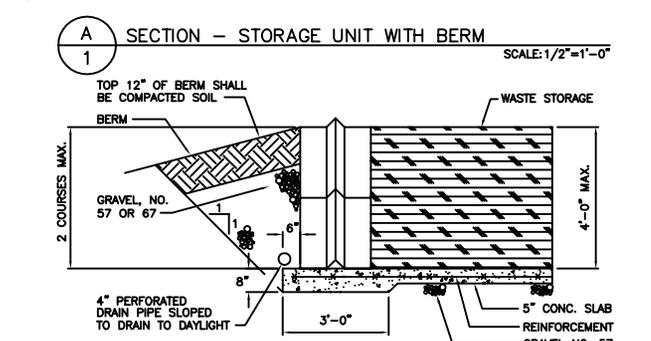


A
1 SECTION - STORAGE UNIT WITHOUT BERM
SCALE: 1/2"=1'-0"

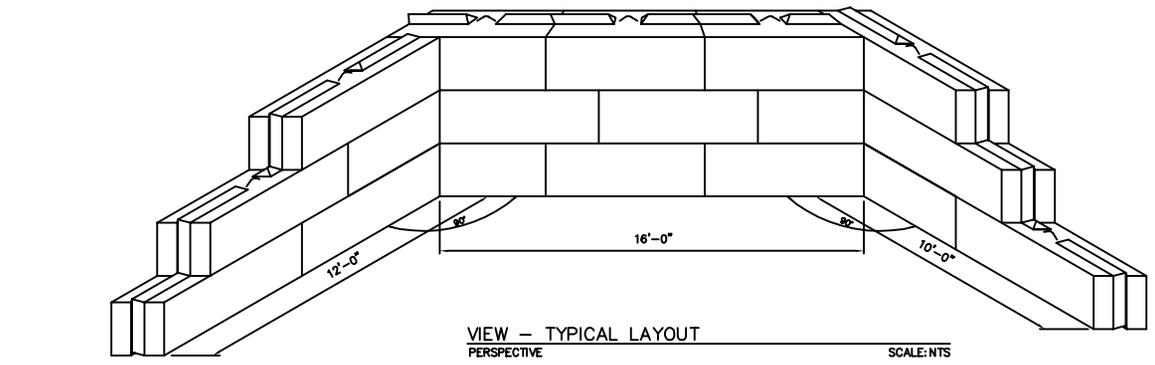


A
1 SECTION - STORAGE UNIT WITH BERM
SCALE: 1/2"=1'-0"

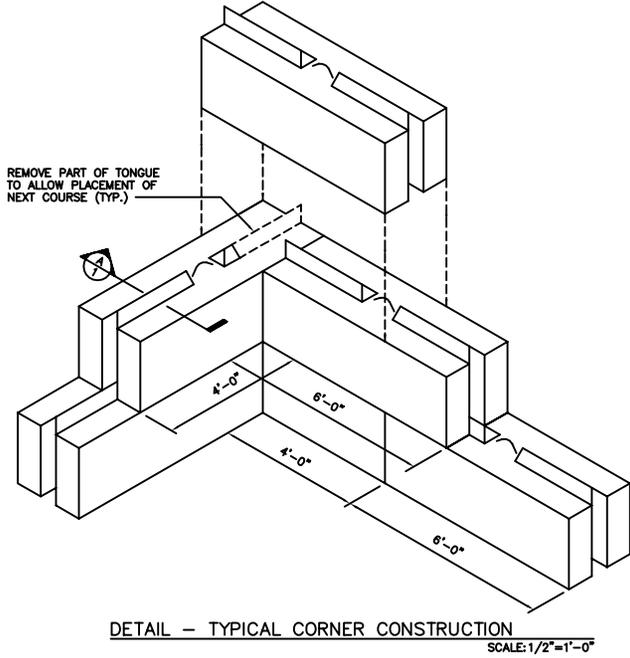


A
1 SECTION - STORAGE UNIT WITH THICKENED SLAB
SCALE: 1/2"=1'-0"

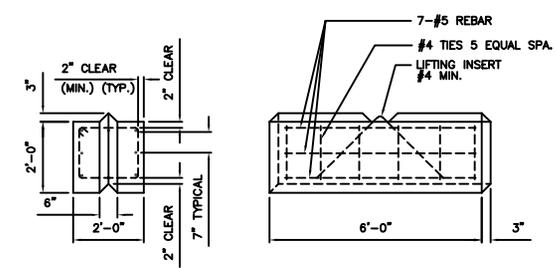
PLANS PREPARED BY:
 **HAMMONTREE & ASSOCIATES, LTD.**
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 CANTON, OHIO AND PITTSBURGH, OHIO
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VIEW - TYPICAL LAYOUT
PERSPECTIVE SCALE: NTS



DETAIL - TYPICAL CORNER CONSTRUCTION
SCALE: 1/2"=1'-0"



DETAIL - TYPICAL BLOCK DIMENSIONS
SCALE: 1/2"=1'-0"

NOTE:

- 1) DESIGN BASED ON THE NATURAL RESOURCES CONSERVATION SERVICE OHIO ENGINEERING STANDARD WASTE STORAGE STRUCTURE - 313 TECHNICAL GUIDE SECTION IV.
- 2) DESIGN BASED ON THE FOLLOWING LOADS:
BERM MATERIAL: WELL DRAINED WITH AN EQUIVALENT FLUID PRESSURE = 35PSF
WASTE MATERIAL: SATURATED WITH AN EQUIVALENT FLUID PRESSURE = 60PSF
CONCRETE USED IN BLOCKS: 150PCF
- 3) MAXIMUM HEIGHT OF WASTE STORAGE MATERIAL:
WITHOUT BERM: 3'-0"
WITH BERM: 5'-0"
ON THICKENED SLAB: 4'-0"
- 4) GRANULAR MATERIAL BEHIND WALL SHALL BE GRAVEL NO. 57 OR 67. A 4" PERFORATED DRAIN PIPE SHALL BE NESTLED ALONG THE BOTTOM OF THE WALL ON THE EXTERIOR SIDE.
- 5) CONCRETE BLOCKS SHALL BE MADE WITH SIX BAGS OF CONCRETE PER CUBIC YARD AND SHALL BE REINFORCED WITH 7 #5 REBAR LONGITUDINAL AND 6 #4 BENT REBAR TRANSVERSE. CARE SHALL BE TAKEN TO ELIMINATE VOIDS IN MIX WHEN PLACING CONCRETE IN FORMS. REINFORCEMENT SHALL BE GRADE 60 WITH A MINIMUM EDGE CLEARANCE OF 2".
- 6) STRUCTURES WITH BERMS SHALL HAVE NO HEAVY EQUIPMENT OPERATED ON THE BERM WITHIN FIVE (5) FEET OF THE STRUCTURE.
- 7) CONCRETE BLOCK TO HAVE 10 YEAR SERVICE LIFE.

CONSTRUCTION DETAILS FOR
PRE-CAST CONCRETE BLOCK
WASTE STORAGE FACILITY

U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			
Designed by	MEF	4/98	Drawn by
Checked by	MEF	4/98	Title
Reviewed by	KJO	4/98	Date
Author	KAB	4/98	Sheet No.
			of 1

STANDARD DRAWING NO.: DH-N-509-CAD
APPROVAL DATE: 4/15/99
REVISIONS: