



**EXCAVATION & SUBGRADE PREP**  
(170' x 320' NOMINAL BLDG)

SCALE: 1" = 15'

LEGEND:  
(BE) = Bottom of Excavation  
(PE) = Pre-excavation

- GENERAL NOTES:**
- References:
    - Rubb Buildings Systems, Inc: Building Plans, Merrill Rubb VII, Dwgs. 39790, 39906, 39909.
    - Owen-Hoskell, Inc: Topographic Survey off Donforth Street for P.D.Merrill, Rev 1, Nov. 04.
    - GEI Consultants, Inc.: Subsurface Investigation and Settlement Analysis Proposed Rubb Ware house No.7, July 8, 2004.

- Design Criteria:
  - Anchor Bolt forces provided by Rubb Building Systems
  - Floor Live Loads: 1000psf max. uniform load, two 25,000 lb wheels 6 feet o.c., or equal.
  - 2000 psf avg / 4000 psf max ground pressure.
  - Differential Settlement: 0.167% (2"per 100 ft) maximum, within 12 months of construction

- For layout, dimensions, and details not shown herein, refer to Rubb Plans (Note 1, RefA). Incorporate all Rubb Building Plan construction details, (anchor bolts, anchorages, etc.) Refer to GEI Drawing, CT of 1, Site Plan Facilities, Grading, & Drainage for additional details.

- Report the discovery of any discrepancies between these plans and Rubb Building Plans, Owen-Hoskell Survey Plan, approved shop drawings, or existing conditions. Do not proceed with dependent work until discrepancies have been resolved by GEI.

- Install all proprietary materials in strict compliance with the manufacturer's recommendations.

- Re-cycle Excavated Materials: Grind and/or break-up excavated asphalt pavement. To the extent possible, re-cycle or blend excavated materials with other materials as required to meet minimum specification/requirements for Granular Fill.

- Control moisture and Proof-roll/Compact excavated surfaces to 120 psf density (min.) within 12 inches of surface (bottom of excavation).

- Floor Sub-Sub-grade Prep: Control moisture and compact top layer of Fill (Type A) to 95% of ASTM D1557 maximum density. Compact using a vibratory roller of sufficient size protruding stones, flush with the top surface, prior to installing polyethylene.

- Temporary Wall (Wind ) Support: If the building is erected prior to installing the floor slab, install Temporary Exterior Fill to Elevation 21.5' along North & South walls.

- Fill Materials:
  - Granular Fill: MDOT Granular Borrow, MDOT Spec. 703.19, 9 inch max size, 10% #200
  - Type D Fill: MDOT Aggregate for Sub-base, MDOT Spec. 703.06 b, Type D
  - Type A Fill: MDOT Aggregate for Base, MDOT Spec. 703.06 a, Type A.

- Miscellaneous Earthwork Materials
  - Rigid Insulation: Rigid Cellular Polystyrene (RQPS) R5.0 min. per inch thickness, ASTM C578 compliance, Dow (Dowon) Styroton™, or approved equal.
  - Polyethylene: Plastic Water Vapor Retarder for use under concrete slabs, ASTM E1745, comp. thickness 10 mils thick, two layers, lap adjacent sheets, stagger joints, AmeriCover (brand) Vapor Block VB10™, or approved equal.
  - Under-drain Pipe (6"): Corrugated Polyethylene Pipe for Under-drain, AASHTO M294, Type C Perforated, MDOT Spec. 706.06, Option 1, install with perforations up, cover with Geotextile.
  - Storm Drain (12"): 12 inch diameter, SDR 35, PVC Pipe (Perforated), Risers, Tees, etc. with 12 inch in-line Drain and HS-25 roled Cover. Prepare bed, backfill, and otherwise comply with the Manufacturer's recommendations. ADS Hydroblast in-line Drain or appr. equal.

- Slope bottom of Excavation between (BE) levels shown. Proof-roll/compact bottom of excavation everywhere. Backfill Footing over-excavations with Type D Fill compacted to 95% ASTM D1557.

NO.	DATE	BY	DESCRIPTION
4	4/27/05	RG	FOR CONSTRUCTION
3	2/21/05	RG	REVISIONS - CLIENT REQUEST
2	2/16/05	RG	CONSTRUCTION BID SET
1	1/14/05	RG	PERMIT PLAN

  

WORK	<b>MERRILL MARINE TERMINAL</b>	
	RUBB BUILDING VII	
DRAWING	EXCAVATION & SUBGRADE PREP	
SCALE:	AS SHOWN	SHEET
DATE:	6/24/04	S1 OF 8
DRAWN:	BDM	
DESIGN:	RG	

  

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