# GENERAL NOTES

- I. WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
- A. THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUSBC); 2018 EDITION B. THE INTERNATIONAL BUILDING CODE (IBC); 2018 EDITION AS AMENDED BY THE VUSBC.
- C. THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7-16.
- D. ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.

120 PCF	
UNIFORM	CONCENTRAT
250 PSF	
50 PLF	200 LBS
-	<u>120</u> PCF <u>UNIFORM</u> 250 P3F 50 PLF

- 3. THE CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO FABRICATION OF MEMBERS AND COMMENCING WORK.
- 4. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, EQUIPMENT, ADJACENT GROUNDS AND PLANTS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT NO ADDITIONAL COSTS TO THE OWNER, ANY ITEMS DAMAGED DURING THE CONSTRUCTION.
- 5. CONTRACTOR SHALL NOTIFY "MISS UTILITY OF VIRGINIA" PRIOR TO BEGINNING EXCAVATION FOR LOCATION OF UNDERGROUND UTILITIES.
- 6. UNLESS NOTED OTHERWISE, ALL UTILITIES WHICH CROSS FOOTINGS MUST PASS ABOVE FOOTINGS THROUGH THE RETAINING WALL. STEP FOOTINGS WHERE REQUIRED.

### DEMOLITION

- PROVIDE ADEQUATE SHORING, BRACING, AND OTHER TEMPORARY SUPPORT DURING DEMOLITION.
- CONTRACTOR SHALL VERIFY THAT EXISTING CONSTRUCTION CORRESPONDS TO THAT SHOWN ON THE DRAWINGS. DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 9. CONTRACTOR SHALL DECONSTRUCT THE EXISTING RETAINING WALL AS DENOTED ON THE SITE PLAN AND WALL PROFILES. EXISTING MODULAR CONCRETE UNITS REMOVED SHALL BE STORED AS NECESSARY FOR REUSE TO CONSTRUCT THE PROPOSED LOWER RETAINING WALL REMEDIAL REPAIRS.

#### RETAINING WALL

- IO. THE ELEVATIONS DELINEATED ON THE SITE PLAN HAVE BEEN BASED ON THE SITE LAYOUT DENOTED ON THE BMP A-04 RECORD DRAWING PREPARED BY AES CONSULTING ENGINEERS UNDER PROJECT NO. 6632-9-015 & DATED AUGUST 14, 2008.
- II. FOOTINGS WERE DESIGNED TO BEAR ON UNDISTURBED SOIL A MINIMUM OF 3-8" BELOW GRADE UNLESS NOTED OTHERWISE AND WITH A MAXIMUM SOIL BEARING PRESSURE OF 2,000 PSF. THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO VERIFY THAT THIS ALLOWABLE SOIL BEARING PRESSURE IS ATTAINABLE. IF THIS IS NOT ATTAINABLE, THE OWNER/CONTRACTOR SHALL CONTACT ENGINEER FOR REDESIGN.
- 12. FOOTINGS FOR RETAINING WALLS SHALL BE 12" THICK COMPACTED NO. 21A CRUSHED STONE FULLY WRAPPED IN NON-WOVEN FILTER FABRIC.
- 13. BACKFILL MATERIAL MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN MAXIMUM 8" LIFTS USING A VIBRATORY PLATE COMPACTOR. ALL BACKFILL SHALL BE FREE-DRAINING, NON-FROST SUSCEPTIBLE GRANULAR MATERIAL, UNLESS NOTED TO BE STONE.
- 14. RETAINED BACKFILL MATERIAL SHALL HAVE A MINIMUM FRICTION ANGLE OF 25 DEGREES, EXCEPT IN THE REINFORCED ZONE. BACKFILL MATERIAL TO BE USED IN THE REINFORCED ZONE SHALL BE SM OR BETTER WITH MINIMUM FRICTION ANGLE OF 30 DEGREES OR NO. 57 STONE.
- 15. CHIMNEY DRAIN ADJACENT TO INSIDE FACE OF THE MODULAR CONCRETE UNIT RETAINING WALL SHALL BE A MINIMUM OF 12" WIDE NO. 57 STONE WRAPPED IN NON-WOVEN FILTER FABRIC.
- 16. DRAIN PLACED ADJACENT TO INSIDE FACE OF THE MODULAR CONCRETE UNIT RETAINING WALL SHALL BE A MINIMUM 4" DIAMETER PERFORATED ASTM D3034 PVC DRAIN PIPE WRAPPED IN NON-WOVEN FILTER FABRIC. SLOPE DRAIN TO THROUGH WALL WEEPS AT 50'-O" ON CENTER MAXIMUM AND/OR DAYLIGHT.
- 17. ANY VARIATION IN LOCATION OR ELEVATION OF RETAINING WALL, ELEVATION IN THE GRADE EITHER ABOVE OR BELOW THE WALL, OR THE RECOMMENDED INSTALLATION DETAILS, REQUIRE REVIEW BY THE ENGINEER OF RECORD.
- 18. MODULAR CONCRETE UNIT RETAINING WALL BLOCK SHALL BE ANCHOR VERTICA RETAINING WALL BLOCK, COLOR TO MATCH EXISTING RETAINING WALL TO EXTENT POSSIBLE. FOLLOW INSTALLATION INSTRUCTIONS PROVIDED BY MANUFACTURER. WHERE MANUFACTURER'S INSTRUCTIONS DIFFER FROM CONSTRUCTION DRAWINGS, BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD FOR RESOLUTION.
- 19. ALL GEOGRID REINFORCEMENT TO BE MIRAGRID 3XT / 5XT SERIES MANUFACTURED BY TENCATE GEOSYNTHETICS. LENGTH OF GEOGRID SHOWN ON DRAWINGS IS TAKEN FROM OUTSIDE FACE OF RETAINING WALL. GEOGRID SHALL BE PULLED TAUGHT AND PINNED PRIOR TO BACKFILLING.
- 20. PEDESTRIAN PROTECTION IS REQUIRED WHEN WALL HEIGHT EXCEEDS 30" ABOVE FINISH GRADE AT ANY POINT WITHIN 36" OF OPEN EDGE. THEREFORE, GUARD RAILING AND/OR FENCING SHALL BE PROVIDED WHERE WALL HEIGHT EXCEEDS 30" ABOVE FINISH GRADE AS REQUIRED BY THE LOCALITY.
- 21. RETAINING WALL MINIMUM DESIGN SAFETY FACTORS:
  - A. OVERTURNING 2.0
  - B. SLIDING 1.5 C. GLOBAL STABILITY - 1.3

#### MISCELLANEOUS:

22. THE OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO INSTALL, MAINTAIN, AND MONITOR INCLINOMETERS TO OBSERVE AND RECORD THE BATTER OF THE RETAINING WALL INCLINOMETERS SHALL BE INSTALLED AT A MAXIMUM OF 100'-O" ON CENTER ALONG THE TOP OF THE RETAINING WALL, UNLESS NOTED OTHERWISE. ACTUAL LOCATION OF INCLINOMETERS DELINEATED ON THE SITE PLAN ARE APPROXIMATE AND SHALL BE COORDINATED & APPROVED BY A GEOTECHNICAL ENGINEER BASED ON SITE CONDITIONS.

ABBREVIATIONS				
APPROX.	APPROXIMATE	MIN.	MINIMUM	
CONC.	DIAMETER	O.C.	ON CENTER REINEORCEMENT	
		RW	RETAINING WALL	
EX.	EXISTING	STA	STATION	
MAX.	MAXIMUM	TYP.	TYPICAL	
		U.N.O.	UNLESS NOTED OTHERWISE	

## LEGEND

REPRESENTS ACTION ITEM ADDRESSED IN RELATION TO LINE ITEM NO. DENOTED IN JCC SRP LETTER DATED 8/1/2022















