



**STRUCTURAL NOTES**

- 1 CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND FIELD CONDITIONS. SEE LANDSCAPE AND CIVIL DRAWINGS FOR WALL LAYOUT AND LOCATION.
- 2 SOIL CONDITIONS USED FOR FOUNDATION DESIGN ARE ASSUMED TO MATCH MATERIAL CLASS #9 AS PER TABLE 1806.2a "PRESUMPTIVE ALLOWABLE VERTICAL BEARING PRESSURES" IN MSBC FOR MEDIUM DENSE SAND, SILTY FINE SAND, OR NON-PLASTIC INORGANIC SAND (ALLOWABLE BEARING PRESSURE OF 4,000 PSF)
- 3 ALL FOUNDATIONS SHALL BEAR ON UNDISTURBED MATERIAL. NO FOOTINGS SHALL BE PLACED IN WATER, NOR UPON FROZEN GROUND.
- 4 FOOTING CONCRETE SHALL BE NORMAL WEIGHT, 3/4" MAX AGGREGATE WITH 4,000 PSI 28 DAY COMPRESSIVE STRENGTH. CONCRETE EXPOSED TO WEATHER SHALL BE AIR ENTRAINED 5%-7%.
- 5 ALL REINFORCING SHALL BE ASTM A-615 GRADE 60. WELDED WIRE FABRIC TO CONFORM TO ASTM A185.
- 6 CONCRETE MASONRY UNITS SHALL BE LOAD BEARING GRADE N-1 UNITS HAVING A MINIMUM NET COMPRESSIVE STRENGTH OF 2,500 PSI, CONFORMING TO ASTM C90, FOR A RESULTING F<sub>m</sub> NOT LESS THAN 1,500 PSI. USE 2 CELL HOLLOW CMU UNITS FOR ALIGNMENT OF WEBS IN REINFORCED WALLS.
- 7 MORTAR SHALL CONFORM TO ASTM C-270 TYPE M (F<sub>c</sub> = 2500 PSI).
- 8 GROUT SHALL CONFORM TO ASTM C-476 WITH A MINIMUM COMPRESSIVE STRENGTH F<sub>c</sub> = 3,000 PSI.
- 9 PLACE GROUT IN CONFORMANCE WITH EITHER LOW LIFT OR HIGH LIFT PROCEDURES AS OUTLINED BY NCMA. ALL VERTICALS CELLS AND BOND BEAMS WITH REINFORCING SHALL BE FULLY GROUTED.
- 10 PROVIDE GALVANIZED #9 LADDER TYPE REINFORCING AT 16" VERTICAL SPACING. BLOCK SHALL BE SET WITH FULL FACE AND BED JOINTS. VISIBLE JOINTS SHALL HAVE A TOOLED CONCAVE JOINT. WINTER MASONRY SHALL BE PLACED USING NCMA STANDARDS AND RECOMMENDED PROCEDURES.
- 11 ALL MASONRY WORK SHALL CONFORM TO THE STANDARDS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) AND THE BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 402/ACI 530/ ASCE 6).

**1 TYPICAL RETAINING WALL SECTION**  
SCALE: 1" = 1'-0"

SKS-1		Date: 10/18/2021
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Site Retaining Walls		