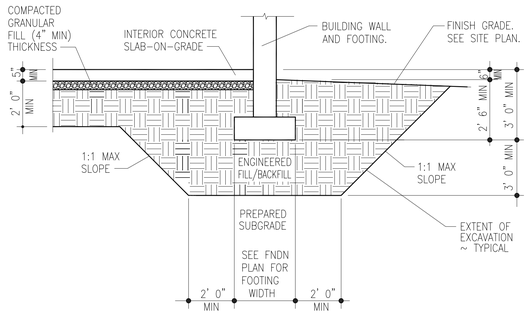
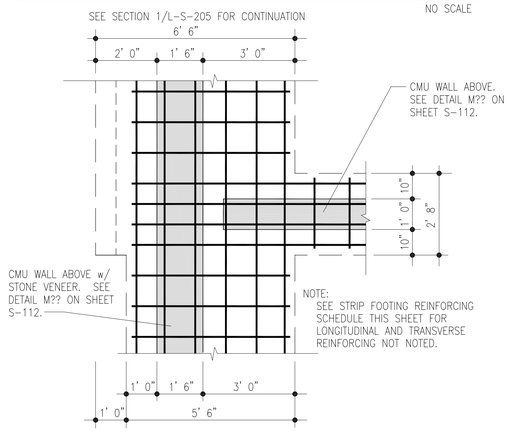


SCHEMATIC SECTION ~ STORAGE BUILDING EARTHWORK

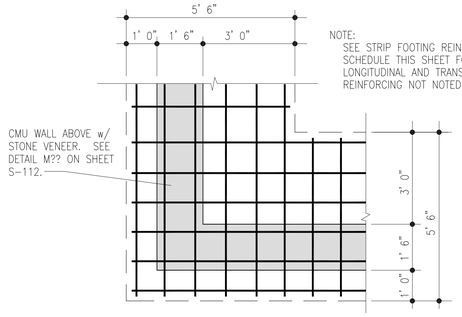
NO SCALE

GENERAL NOTES - EARTHWORK

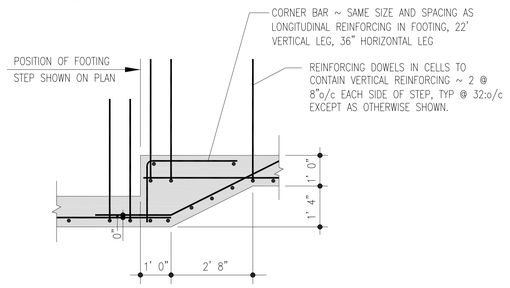
1. GENERAL. Place footings and slabs-on-grade on engineered fill on prepared subgrade. Requirements for earthwork, including excavation, fill and backfill, unless specifically contained in these notes and the SPECIFICATIONS shall be as contained with the 2009 edition of the New Mexico Commercial Building Code.
2. SITE CLEARING. Remove from the site and properly dispose of all vegetation and other organic matter, pavement, existing construction and manmade fill (except as otherwise directed), and any other unsuitable material.
3. EXCAVATION AND PROTECTION OF EXCAVATIONS. Remove existing material as required to meet site grading elevations. See the schematic detail on this sheet for the extent of excavation and fill/backfill required at buildings. Do not undercut existing construction. Provide positive surface drainage away from excavations and promptly remove any surface water which may enter the excavations. Remove any subgrade material and any previously placed fill or backfill which has been softened or otherwise damaged by moisture. Replace with properly placed and compacted fill or backfill. Slope sides of excavations as required for slope stability and provide barricades, lights and warning signs as necessary for the protection of existing property, construction personnel and the public.
4. PREPARATION OF SUBGRADE. After excavations have been completed and/or surface has been cleaned and grubbed, scarify or otherwise loosen the subgrade to a minimum depth of 8 inches, moistened or dried as necessary to within −/+3 percentage points of optimum moisture content and compact to not less than 95% of maximum density as determined by ASTM D1557.
5. FILL AND BACKFILL. All fill and backfill material shall be clean, free of organic or frozen matter, and any other unsuitable material. Do not use any material which has not been approved by the COTR before use. Site material may be used if it meets the specified material property requirements. If site material does not meet the requirements, use imported materials or a uniform mixture of site and imported materials which do meet the specified requirements. See SPECIFICATIONS for gradation, plasticity index and other fill material requirements.
6. PLACING AND COMPACTION OF FILL AND BACKFILL. See SPECIFICATIONS for density requirements for fill/backfill. Place fill/backill material in layers of uniform thickness (8 inches maximum for if heavy equipment is to be used, 6 inches maximum if handheld equipment is to be used). Perform compaction when the moisture content of the material is uniform and is at is optimum (plus or minus 2 percentage points). Add water to the material or dry the material as necessary to achieve the required moisture content. Compact soil using equipment and methods as appropriate and necessary to achieve the required density percentages without damage to existing construction. Do not use ponding, flooding, jetting or other similar methods to aid in compaction.
7. QUALITY CONTROL. Determine maximum soil densities and optimum moisture contents in accordance with ASTM D1557. Determine density of in-place material in accordance with ASTM D1556 or D2922. Determine gradations of materials in accordance with ASTM D422. Determine liquid limits, plastic limits and plasticity indices in accordance with ASTM D4318. See SPECIFICATIONS for additional requirements and for testing schedule.



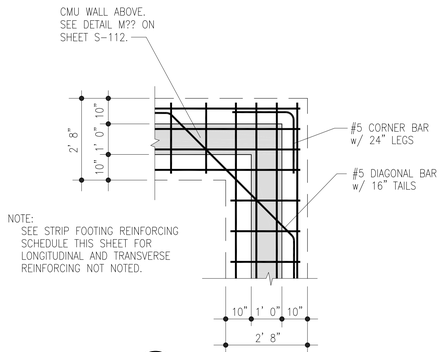
F1 FOOTING PLAN DETAIL S-111



F2 FOOTING PLAN DETAIL S-111



ELEVATION ~ TYPICAL FOOTING STEP



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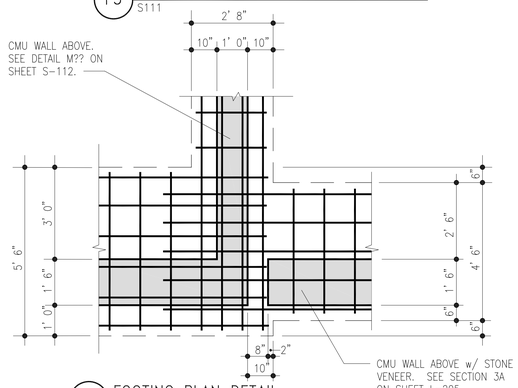
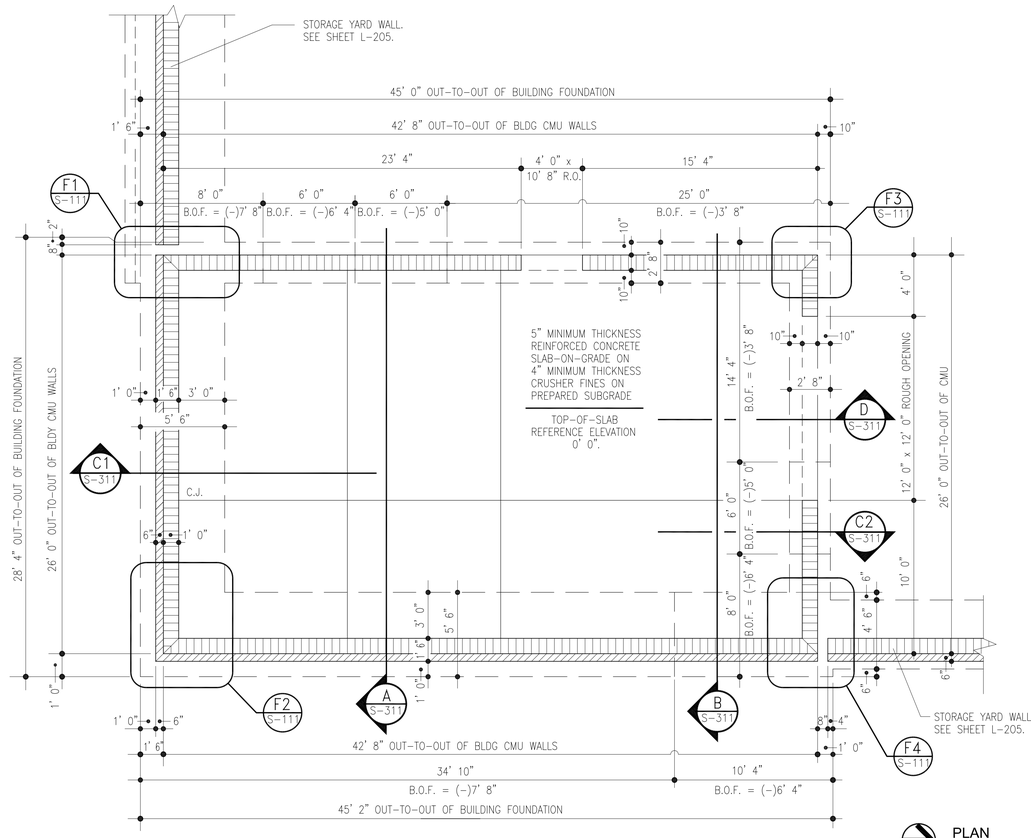


F4 FOOTING PLAN DETAIL S-111



STORAGE BUILDING FOUNDATION PLAN

GENERAL NOTES - STORAGE BUILDING FOUNDATION PLAN

1. THE SIDES OF ALL FOOTINGS AND STEM WALLS (EXCEPT INSIDE FACES OF TURNED-DOWN SLABS ON GRADE) ARE TO BE FORMED. FORMING REQUIREMENTS, INCLUDING MATERIALS AND TOLERANCES, ARE GIVEN IN SPECIFICATION SECTION 31 30 00 – EARTHWORK FOR STRUCTURES.
2. STONE VENEER ON SOUTH AND EAST SIDES OF STORAGE BUILDING EXTENDS FROM TOP OF FOOTING TO 8 INCHES BELOW TOP OF INTERIOR SLAB ON GRADE WITH CUT STONE CAP AT TOP. SEE ARCHITECTURAL ELEVATIONS AND BUILDING SECTIONS ON SHEETS A-211 AND A-311 RESPECTIVELY.
3. WINDOWS AND OTHER OPENINGS, FINISHES, FLOOR DRAINS, MECHANICAL VENTS AND UNDERSLAB DUCTWORK AND PLUMBING ARE NOT SHOWN. SEE ARCHITCTURAL, MECHANICAL AND PLUMBING DRAWINGS.
4. ELEVATIONS AND SECTIONS OF WALLS AROUND STORAGE BUILDING YARD PLAN ARE SHOWN ON SHEET L-205.

GENERAL NOTES - FOOTINGS

1. GENERAL. EXCEPT AS SPECIFICALLY NOTED OTHERWISE, ALL FOOTINGS ARE TO BE 12 INCHES THICK AND ARE TO BE CENTERED UNDER THE WALLS THEY SUPPORT. SIDES OF ALL FOOTINGS EXCEPT INSIDE FACES OF TURNED-DOWN SLABS ARE TO BE FORMED; PLACING CONCRETE AGAINST EARTH IS NOT PERMITTED EXCEPT AS SPECIFICALLY NOTED,
2. TYPICAL FOOTING REINFORCING. EXCEPT AS SHOWN OTHERWISE IN THE FOOTING DETAILS OR WALL M W SECTIONS, FOOTINGS SHALL BE REINFORCED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. TRANSVERSE REINFORCING IS IN ADDITION TO TAILS OF WALL DOWELS (NOTE 6 BELOW).

FOOTING WIDTH	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
1' 4" to 1' 11"	3 ~ #5	#4 @ 32"o/c
2' 0" to 2' 7"	4 ~ #5	#4 @ 24"o/c
2' 8" to 3' 4"	5 ~ #5	#4 @ 16"o/c
3' 5" to 4' 0"	6 ~ #5	#4 @ 12"o/c

3. ADDITIONAL REINFORCING AT CORNERS AND INTERSECTIONS. PROVIDE #5 CORNER BARS AND DIAGONAL BARS AT THE LOCATIONS SHOWN IN THE DETAILS ON THIS SHEET. LEGS OF CORNER BARS SHALL NOT BE LESS THAN 24 INCHES IN LENGTH AND TAILS OF DIAGONAL BARS SHALL NOT BE LESS THAN 16 INCHES IN LENGTH.
4. FOOTING END EXTENSIONS. EXCEPT AS OTHERWISE SHOWN, FOOTINGS SHALL EXTEND PAST THE ENDS OF WALLS A DISTANCE NOT LESS THAN THE SIDE EXTENSION.
5. SPACING OF LONGITUDINAL REINFORCING. EXCEPT WHERE SPACING IS SPECIFICALLY NOTED, LONGITUDINAL BARS SHALL BE EQUALLY SPACED ACROSS THE WIDTH OF THE FOOTINGS WITH SIDE COVER AS NOTED OR SPECIFIED.
6. WALL DOWELS. DOWELS FROM FOOTINGS TO STEM WALLS ARE NOT SHOWN. SEE WALL AND BUILDING SECTIONS.

DISCOVERY CLAUSE

IN THE EVENT THAT BONES OR PREHISTORIC OR HISTORIC ARCHAELOGICAL MATERIALS ARE UNCOVERED DURING CONSTRUCTION OR EARTH-DISTURBING ACTIVITIES, CEASE WORK IMMEDIATELY AND PROTECT THE REMAINS FROM FURTHER DISTURBANCE. NOTIFY THE OWNER (THE DIRECTOR OF FORT BLISS NATIONAL CEMETERY) AT (915) 564-0201. THE OWNER WILL NOTIFY THE NEW MEXICO HISTORIC PRESERVATION DIVISION (SHPO). 827-6320. THE OWNER AND SHPO MAY DISCUSS THE APPROPRIATE WAY TO PROCEED. DIRECTION TO THE CONTRACTOR WILL BE PROVIDED BY THE OWNER.

GENERAL NOTE ~ DRAWING SCALE

This sheet was drawn at a scale of 1/4" = 1' 0" but it may have been plotted at a different scale. The scale of the plotted sheet can be determined using the GRAPHIC SCALE below.

0 1' 2' 4' 8' 16'
GRAPHIC SCALE – FOUNDATION PLAN

0 6 1' 2' 4' 8'
GRAPHIC SCALE – SECTIONS AND DETAILS

100% CONSTRUCTION DRAWINGS

Revisions: Date

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Drawing Title: STORAGE BUILDING EARTHWORK SCHEMATIC SECTION AND NOTES, FOUNDATION PLAN AND DETAILS

Approved: Director Office of Design and Construction

Project Title: CEMETERY IMPROVEMENTS AND NEW MAINTENANCE BUILDING

Location: FORT BAYARD, NEW MEXICO

Date: NOVEMBER 18, 2011 | Checked: CEB | Drawn: BCE

Project Number: 885CM3007

Building Number: 2

Drawing Number: S-111

Dwg. 101 of 120

NATIONAL CEMETERY ADMINISTRATION OFFICE OF DESIGN AND CONSTRUCTION

Department of Veterans Affairs

BCE2010-010 / S111 10/24/2011 DWG SCALE: 1/4" = 1' 0"

VA FORM 08-6231, OCT 1978