STRUCTURAL NOTES

FOUNDATIONS

NO GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT. AN ALLOWABLE SOIL BEARING CAPACITY UTILIZED FOR THE DESIGN OF THE STRIP FOOTINGS HAS BEEN ASSUMED TO BE 1500 PSF (NET) FOR FOOTINGS BEARING ON THE NATURAL SOILS OR PROPERLY COMPACTED ENGINEERED FILL. ASSUMED SOIL BEARING CAPACITY SPECIFIED ABOVE SHALL BE FIELD VERIFIED BY AN INDEPENDENT TESTING AGENCY PRIOR TO PLACING ANY CONCRETE FOUNDATIONS .

PLACE COMPACTED FILL AS REQUIRED TO BRING SUBGRADE TO THE PROPER ELEVATION PRIOR TO OTHER FOUNDATION WORK. THE BOTTOM OF ALL FOOTINGS SHALL BE A MINIMUM OF 3'-0" (FROST DEPTH) BELOW FINISHED EXTERIOR GRADE UNLESS A LOWER ELEVATION IS NOTED. THE FOOTING ELEVATIONS NOTED ARE ESTIMATED BASED ON AVAILABLE GEOTECHNICAL INFORMATION.

ALL FOUNDATION SUBGRADES SHALL BE INSPECTED AND APPROVED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL GEOTECHNICAL ENGINEER PRIOR TO BEING CONCRETED. FOOTINGS MAY BE LOWERED TO ACHIEVE BEARING CAPACITY IF REQUIRED SUBJECT TO REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OR GEOTECHNICAL ENGINEER.

ALL FOUNDATION SUBGRADES SHALL BE THOROUGHLY COMPACTED AND ANY AREAS SHOWING SIGNS OF INSTABILITY SHOULD BE SELECTIVELY OVER-EXCAVATED TO SUITABLE BEARING LAYER AND BACKFILLED WITH COMPACTED ENGINEERED FILL, AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

EXCAVATIONS FOR BURIAL SECTIONS SHALL NOT OCCUR AT ADJACENT PLOTS. MINIMUM OF THREE PLOTS SHALL REMAIN UNEXCAVATED BETWEEN EACH BURIAL SECTION EXCAVATION.

CARE SHALL BE TAKEN NOT TO UNDERMINE THE HEADSTONE SUPPORT FOOTING DURING EXCAVATION OF BURIAL SECTION. IF UNDERMINING DOES OCCUR NOTIFY ARCHITECT/ENGINEER AND TAKE CORRECTIVE MEASURES TO RESTORE ADEQUATE SOIL BEARING CAPACITY AT UNDERMINED LOCATIONS.

REFER TO GRAVESITE & SITE ELEMENT LAYOUT PLAN FOR EXTENT AND LOCATIONS OF HEADSTONE SUPPORT FOUNDATION SYSTEM.

CONCRETE (CAST-IN-PLACE)

MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 3,000 PSI FOR FOUNDATION CONCRETE.

ALL EXTERIOR CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL BE AIR-ENTRAINED.

ALL CONCRETE SHALL BE NORMAL WEIGHT.

THE CONTRACTOR SHALL SUBMIT MIX DESIGNS AND CORRESPONDING BACK-UP TEST DATA IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, LATEST EDITION FOR APPROVAL.

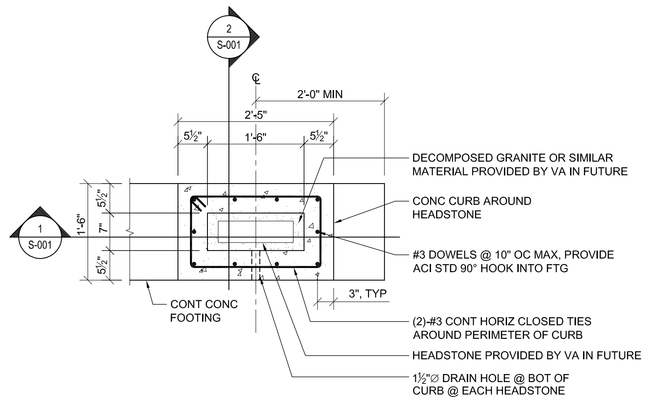
REINFORCING STEEL

REINFORCING BARS SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. BARS SHALL BE BRANDED BY THE MANUFACTURER WITH BAR SIZE AND GRADE OF STEEL AND CERTIFIED MILL REPORTS SHALL BE SUBMITTED FOR THE OWNER'S RECORD. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

PROVIDE CORNER BARS AT "L" SHAPED CORNERS AND "T" SHAPED INTERSECTIONS OF CONCRETE WALLS AND FOOTINGS AND LAP WITH WALL AND FOOTING REINFORCING. THE SIZE AND SPACING OF CORNER BARS ARE TO BE THE SAME AS HORIZONTAL WALL OR FOOTING REINFORCING. PROVIDE A MINIMUM ACI CLASS B LAP SPLICE FOR ALL REINFORCING UNLESS A GREATER LAP IS NOTED ON THE STRUCTURAL DRAWINGS. PROVIDE PLACING ACCESSORIES IN ACCORDANCE WITH ACI RECOMMENDATIONS.

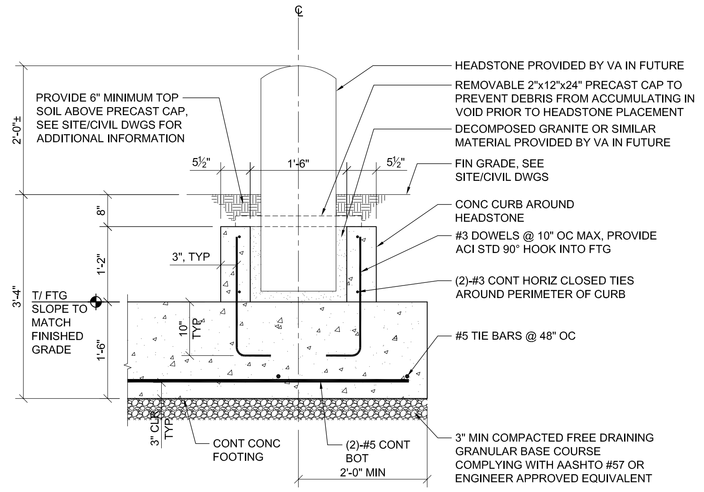
SHOP DRAWINGS

THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS FOR APPROVAL. THE STRUCTURAL ENGINEER WILL NOT BE RESPONSIBLE FOR THE STRUCTURAL CERTIFICATION AND DESIGN OF THE PROJECT IF THE GENERAL CONTRACTOR FAILS TO OBTAIN APPROVAL OF THE SHOP DRAWINGS. THE GENERAL CONTRACTOR SHALL INFORM THE STRUCTURAL ENGINEER IN WRITING CONCERNING DEVIATIONS AND/OR OMISSIONS FROM THE CONTRACT DOCUMENT AT THE TIME OF SHOP DRAWINGS SUBMISSION. THE GENERAL CONTRACTOR SHALL STATE ON THE SHOP DRAWINGS THAT CONTRACT DOCUMENT REQUIREMENTS HAVE BEEN MET AND THAT ALL DIMENSIONS, CONDITIONS, AND QUANTITIES HAVE BEEN REVIEWED AND VERIFIED AS SHOWN AND/OR CORRECTED ON THE SHOP DRAWINGS.



A S-001 DETAIL
SCALE: 3/4" = 1'-0"

NOTES:
1. CENTERLINE LOCATION OF HEADSTONE SUPPORT BOXES ARE CRITICAL FOR PROPER FINAL HEADSTONE PLACEMENT. CONTRACTOR SHALL ENSURE TOLERANCE IN ALL DIRECTIONS FOR CENTERLINE LOCATION IS LESS THAN ½".
2. SLOPE FOOTING AS REQ'D TO MATCH SLOPE OF FINISHED GRADE. CONTRACTOR SHALL ACCOUNT FOR SLOPE IN FOOTING AND ENSURE VERTICAL PLUMBNESS OF HEADSTONE TO WITHIN TOLERANCES.



1 S-001 SECTION
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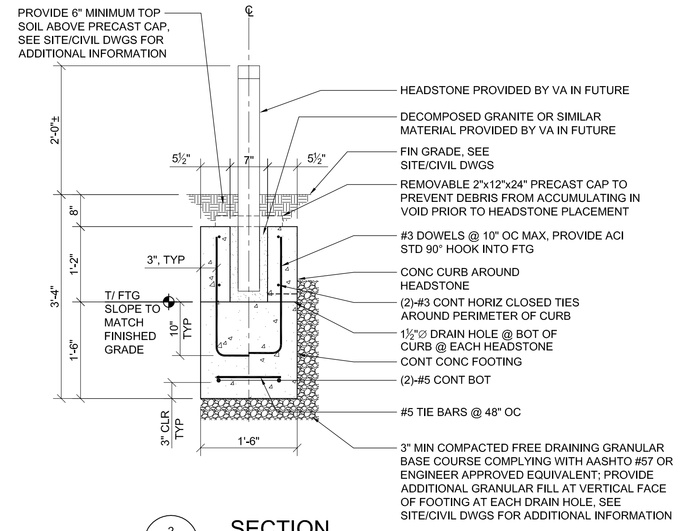

2 S-001 SECTION
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NOTES:
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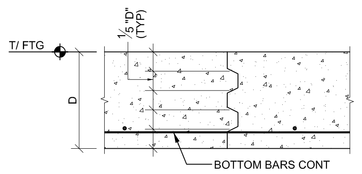

TYPICAL FOOTING CONSTRUCTION JOINT DETAIL

Revisions:	Date

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NATIONAL CEMETERY ADMINISTRATION

Drawing Title
STRUCTURAL NOTES & FOUNDATION DETAILS

Approved: Project Director

Project Title
WASHINGTON CROSSING NATIONAL CEMETERY
OVERSIZED BURIAL SECTION 6A

Location
BUCKS COUNTY, PENNSYLVANIA

Date 1-7-14 | Checked MDP | Drawn MDP

Project Number 926CM2002

Building Number

Drawing Number S-001
Dwg 22 of 22

Office of Facilities Management
Department of Veterans Affairs

VA FORM 08-6231, OCT 1978

BID DOCUMENTS