

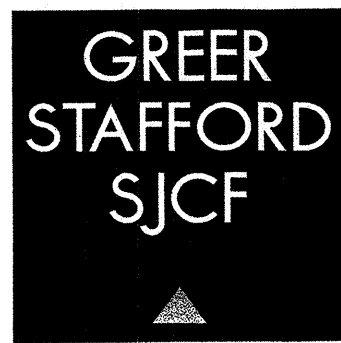
VIETNAM VETERAN'S MEMORIAL

CITY OF ALBUQUERQUE

ALBUQUERQUE, NEW MEXICO

CITY OF ALBUQUERQUE JOB NO. 6072.01

DESIGN TEAM:
ARCHITECT



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STRUCTURAL



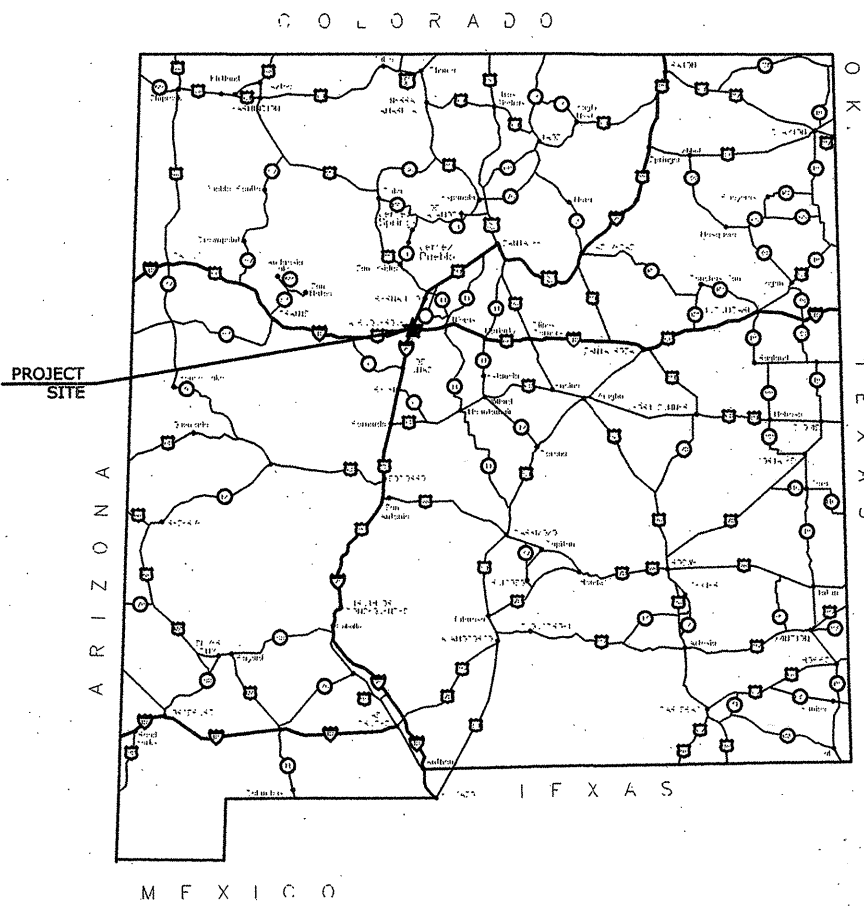
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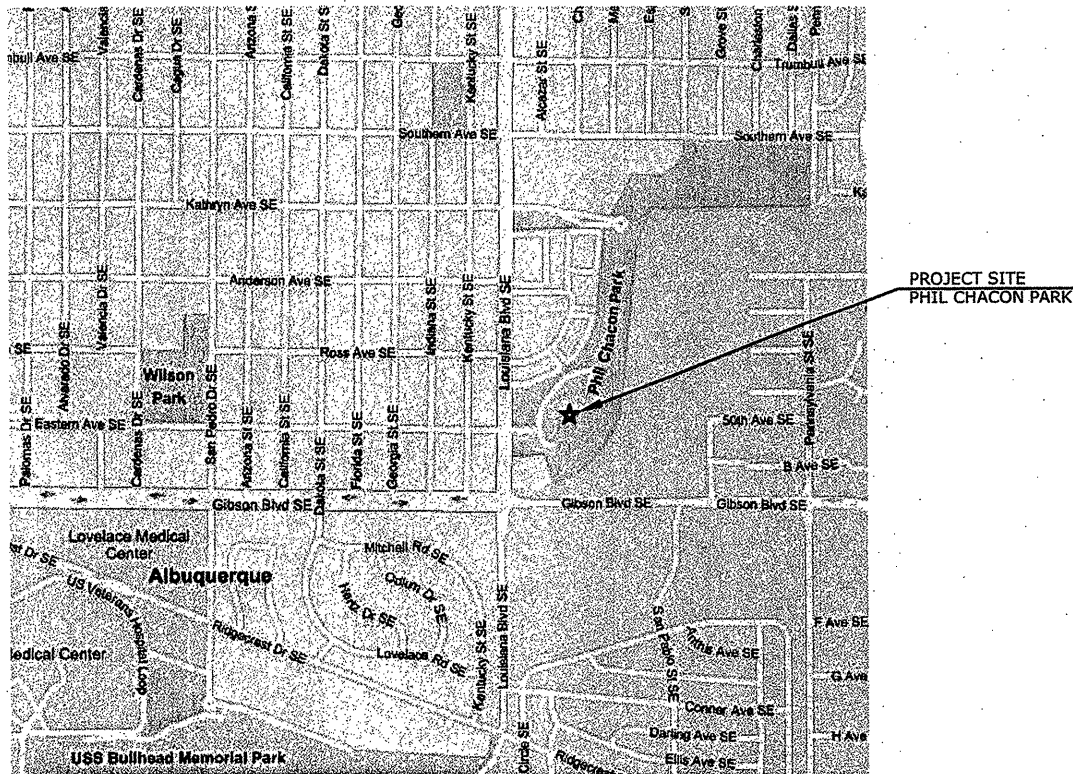
ALBUQUERQUE CITY COUNCIL
AND MAYOR:

KEN SANCHEZ	DISTRICT 1	PRESIDENT
DEBBIE O'MALLEY	DISTRICT 2	MEMBER
ISAAC BENTON	DISTRICT 3	MEMBER
BRAD WINTER	DISTRICT 4	MEMBER
DAN LEWIS	DISTRICT 5	MEMBER
RAY GARDUNO	DISTRICT 6	MEMBER
MICHAEL D. COOK	DISTRICT 7	MEMBER
TRUDY JONES	DISTRICT 8	VICE-PRESIDENT
DON HARRIS	DISTRICT 9	MEMBER
RICHARD J. BERRY	MAYOR	

LOCATION MAP:



VICINITY MAP:



DRAWING INDEX:

GENERAL:

G001 COVER SHEET

STRUCTURAL:

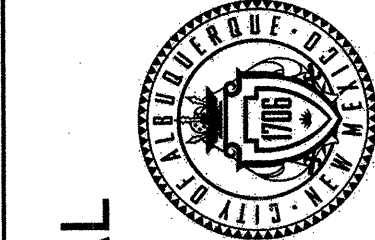
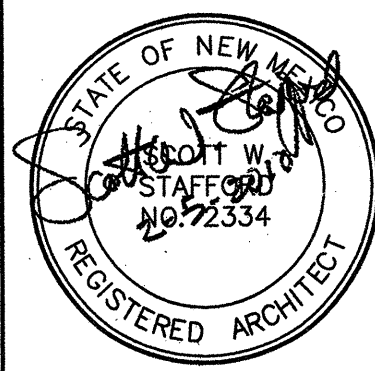
S101 STRUCTURAL GENERAL NOTES, FOUNDATION PLAN & FOUNDATION SECTIONS

ARCHITECTURAL:

A101 CONCRETE SPECIFICATION
A102 ARCHITECTURAL SITE PLAN
A103 MEMORIAL PLAN, ELEVATIONS, SECTION & ENLARGED SITE PLAN

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BE USED FOR CONSTRUCTION UNLESS IT IS
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VIETNAM VETERAN'S MEMORIAL
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO
COA JOB NO. 6072.01

ISSUE	DATE	DESCRIPTION

PROJECT NO: 3036.01
CAD DWG FILE: VVH-0001.DWG
DRAWN BY: SJA
CHECKED BY: SAM
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SHEET TITLE
COVER SHEET

DRAWING SHEET
G001

Phil Chacon - Vietnam Veteran's Memorial As-Built's.

STRUCTURAL GENERAL NOTES:

1. GENERAL:
- A. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.
- B. SHOP DRAWINGS SHALL BE FURNISHED AND REVIEWED BEFORE ANY FABRICATION OR ERECTION IS STARTED. THE CONTRACTOR SHALL REVIEW AND APPROVE SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT FOR REVIEW. POORLY PREPARED SHOP DRAWINGS WILL BE REJECTED AND SHALL BE RESUBMITTED.
- C. ENGINEER'S REVIEW OF SHOP DRAWINGS SHALL BE FOR THE PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN CONCEPT, NOT FOR ACCURACY OR COMPLETENESS OF DETAILS OR QUANTITIES AND PROCEDURES. SHOP DRAWING ERRORS NOT DETECTED DURING ENGINEER'S REVIEW SHALL NOT BE CONSTRUED AS ALLOWING THE CONTRACTOR TO PROCEED KNOWINGLY IN ERROR. REGARDLESS OF ANY INFORMATION CONTAINED IN THE SHOP DRAWINGS, THE REQUIREMENTS OF THE CONTRACT DOCUMENTS ARE NOT WAIVED OR SUPERSEDED IN ANY WAY BY THE SHOP DRAWING REVIEW.

2. DESIGN CRITERIA:

BUILDING CODES AND STANDARDS:

STATE OF NEW MEXICO 2006 BUILDING CODE
2006 INTERNATIONAL BUILDING CODE (IBC)
ASCE 7-05 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
AMERICAN INSTITUTE OF STEEL CONSTRUCTION 13TH EDITION, "MANUAL OF STEEL CONSTRUCTION, ASD"
AMERICAN CONCRETE INSTITUTE 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"

3. DESIGN LOADS:

- A. SEISMIC LOADING: IN ACCORDANCE WITH 2006 IBC AND ASCE 7-05:
- OCCUPANCY CATEGORY I
MAX. CONSIDERED GROUND ACCELERATIONS:
SS = 0.55g
SI = 0.17g
- SITE SOIL CLASSIFICATION D:
FA = 1.36
FV = 2.13
- SPECTRAL RESPONSE ACCELERATIONS:
SDS = .501
SD1 = .239
- SEISMIC DESIGN CATEGORY D:
RESPONSE FACTOR R = 5
IMPORTANCE FACTOR I = 1.0
CT = 0.02
CS = .07
V = .07 x W

- B. SOIL BEARING PRESSURE:
SPREAD FOUNDATIONS: 1500 PSF

4. MATERIALS:

- A. CONCRETE: F'C = 3000 PSI
- B. STEEL:
1. MISCELLANEOUS STRUCTURAL STEEL: ASTM A36
2. STEEL PIPE: ASTM A53, TYPE E OR S, OR B
3. CONCRETE/MASONRY ANCHORS: ASTM A307
4. CONCRETE/MASONRY REINFORCEMENT: ASTM A615 GR 60

5. CONCRETE NOTES:

- A. SPECIFICATIONS:
1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 301.
2. ALL HOT WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 305.
3. ALL COLD WEATHER CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 306.
4. FORMWORK SHALL BE IN ACCORDANCE WITH ACI 347. PROVIDE "CLASS A" TOLERANCE FOR CONCRETE SURFACES EXPOSED TO VIEW. PROVIDE "CLASS C" TOLERANCE FOR OTHER CONCRETE SURFACES.
5. USE AIR ENTRAINING ADMIXTURE 5 PERCENT PLUS OR MINUS 1/2 PERCENT FOR ALL EXTERIOR EXPOSED CONCRETE.
- B. CONCRETE REINFORCING:
1. PROVIDE VERTICAL DOWELS IN CONTINUOUS FOOTING SAME SIZE AND SPACING AS THE VERTICAL WALL STEEL.
2. FOR OPENINGS 1'-0" AND LARGER IN WALLS AND STRUCTURAL SLABS UNLESS NOTED, PROVIDE NUMBER 5 X 4'-0" ALL CORNERS, TWO NUMBER 5 AT EACH SIDE, TOP AND BOTTOM.
3. UNLESS OTHERWISE NOTED PROVIDE CORNER BARS THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING AT THE CORNERS AND INTERSECTION OF ALL WALLS, BEAMS, AND FOOTINGS.
4. UNLESS OTHERWISE NOTED, REBAR SPLICES SHALL BE 40 BAR DIAMETER LAP SPLICES.

C. FOOTINGS:

1. UNLESS DIMENSIONED OTHERWISE, CENTER CONTINUOUS FOOTINGS ON WALL.
2. WHERE COLUMN AND WALL FOOTINGS INTERSECT, CAST THESE MONOLITHIC AND CONTINUE WALL FOOTING REINFORCING THROUGH THE COLUMN FOOTING.
3. CENTER COLUMN FOOTINGS ABOUT COLUMN CENTER LINES BOTH WAYS, UNLESS DIMENSIONED OTHERWISE.
4. UNLESS OTHERWISE NOTED, WHERE COLUMNS AND WALLS CORONIDE, PLACE MONOLITHICALLY AND RUN HORIZONTAL WALL REINFORCING CONTINUOUS THROUGH COLUMNS.
5. UNLESS OTHERWISE NOTED, WHERE CONCRETE ELEMENTS ABUT, DOWEL THE ELEMENTS TOGETHER USING HEAVIER REBAR OF THE TWO ELEMENTS ACROSS THE JOINT. PROVIDE MINIMUM OF 30 BAR DIAMETERS EMBEDMENT OR STANDARD HOOK DOWELS (WHERE REQUIRED BY GEOMETRY) ON EACH SIDE OF JOINT.
6. EARTH FORMED FOOTINGS ARE ACCEPTABLE ONLY WHERE TRENCH SIDES ARE STABLE AND APPROVAL HAS BEEN GRANTED BY THE ENGINEER. SPECIAL CARE SHALL BE TAKEN TO ASSURE THAT CONCRETE IS PLACED INTO CLEAN TRENCHES AND THAT PLACING OPERATIONS DO NOT CAUSE SLOUGHING OR LOSS OF TRENCH SIDE INTEGRITY. MAINTAIN PROPER FOOTING DIMENSIONS AS SHOWN ON DRAWINGS.

D. SLABS ON GRADE

1. CONCRETE MIX DESIGN

- A. USE THE LARGEST ALLOWABLE COARSE AGGREGATE SIZE IN ACCORDANCE WITH THE FOLLOWING:
- 4" SLAB: 1" MAXIMUM AGGREGATE
5" OR MORE: 1 1/2" MAXIMUM AGGREGATE
- B. DO NOT EXCEED 5" CONCRETE SLUMP AT POINT OF PLACEMENT. LIMIT ANY WATER ADDED AT SITE SO AS TO NOT CAUSE THE WATER CEMENT RATIO TO EXCEED THAT OF THE APPROVED CONCRETE MIX DESIGN AND THEREBY CAUSE OBJECTIONABLE SLAB SHRINKAGE AND/OR CURLING.

2. DO NOT ADD MOISTURE TO FINISHED SUBGRADE PRIOR TO PLACEMENT OF SLAB, AS SUCH MOISTURE WILL INCREASE SLAB CURLING AND LONG TERM SHRINKAGE CRACKING.

3. BEGIN SPECIFIED CURING OPERATIONS IMMEDIATELY AFTER FINAL TROWELING.

4. MAINTAIN SURFACE FLATNESS, WITH A MAXIMUM VARIATION OF 1/8" IN 10 FEET. WHERE SPECIFIED, FLOOR FLATNESS F(F) AND FLOOR LEVELNESS F(L) NUMBERS SHALL GOVERN OVER 1/8" IN 10 FEET CRITERION.

- E. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR CAST-IN-PLACE CONCRETE REINFORCEMENT, UNLESS NOTED OTHERWISE.

- | | MINIMUM COVER, INCHES |
|--|-----------------------|
| 1. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH... (NOT APPLICABLE FOR SLAB-ON-GRADE). | 3 |
| 2. CONCRETE EXPOSED TO EARTH OR WEATHER. | |
| #6 THROUGH #11 BARS..... | 2 |
| #5 BAR AND SMALLER | 1-1/2 |
| 3. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: | |
| SLABS, WALLS, JOISTS: #11 BAR AND SMALLER | 3/4 |
| BEAMS, COLUMNS: PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS | 1-1/2 |

F. CURING

1. MAINTAIN MINIMAL MOISTURE LOSS IN CONCRETE AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

G. FINISHES

1. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES AND REQUIRED RECESSES FOR FINISHES.

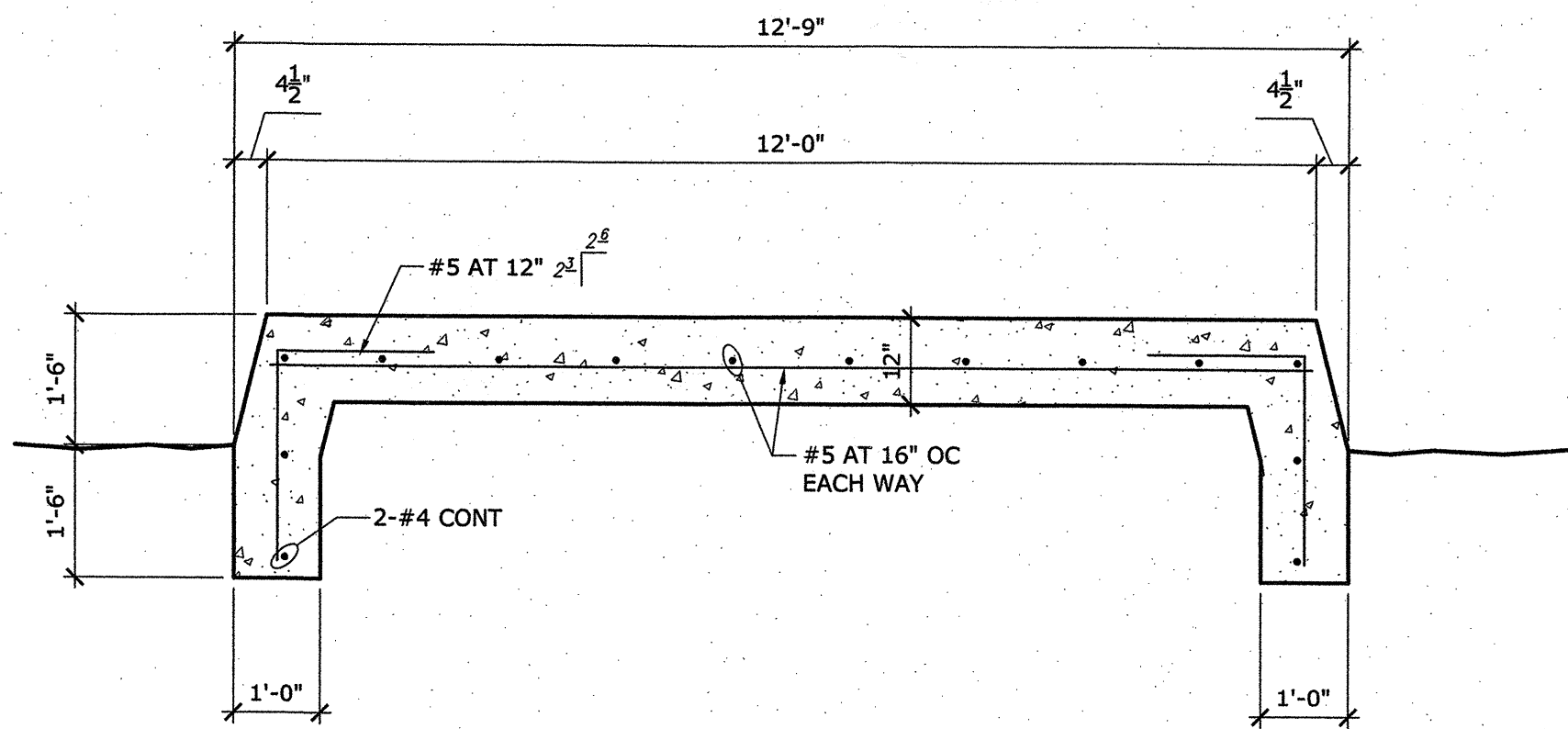
7. STRUCTURAL QUALITY ASSURANCE PLAN:

A. SPECIAL INSPECTION REQUIREMENTS:

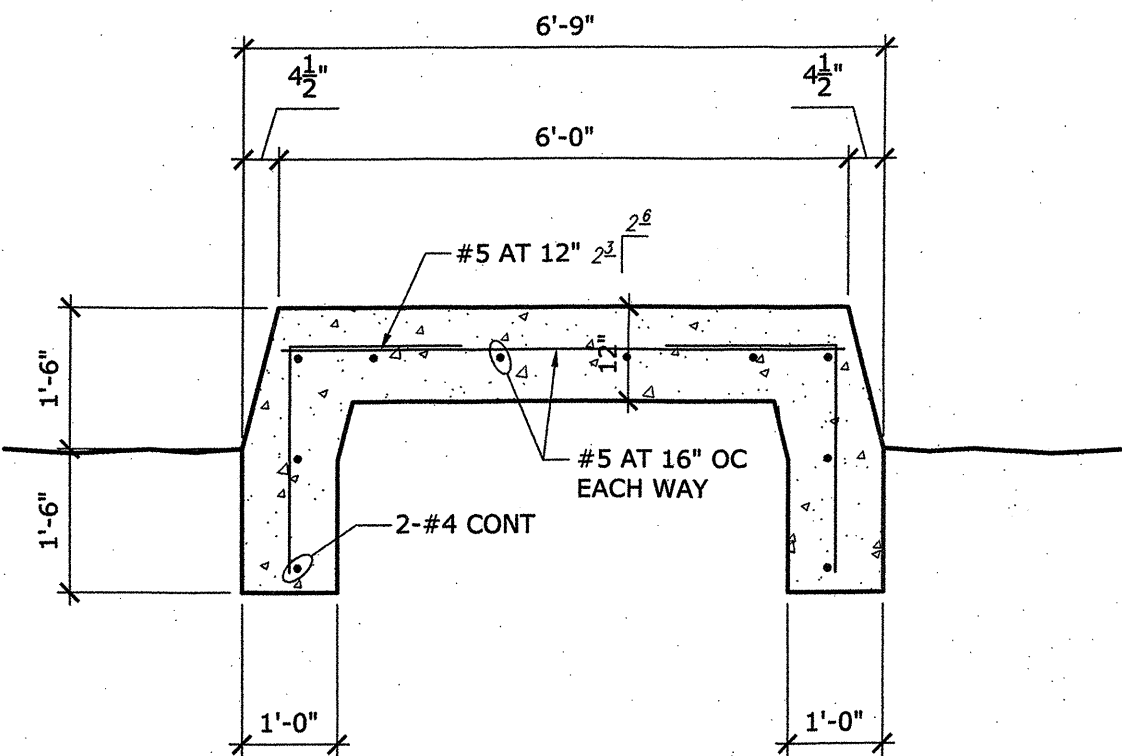
1. CONCRETE CONSTRUCTION: IN ACCORDANCE WITH TABLE 1704.4 (SHALLOW SPREAD FOOTINGS FOR BUILDINGS 3 STORIES TALL OR LESS DO NOT REQUIRE SPECIAL INSPECTION).

B. CONTRACTOR QUALITY CONTROL COORDINATION:

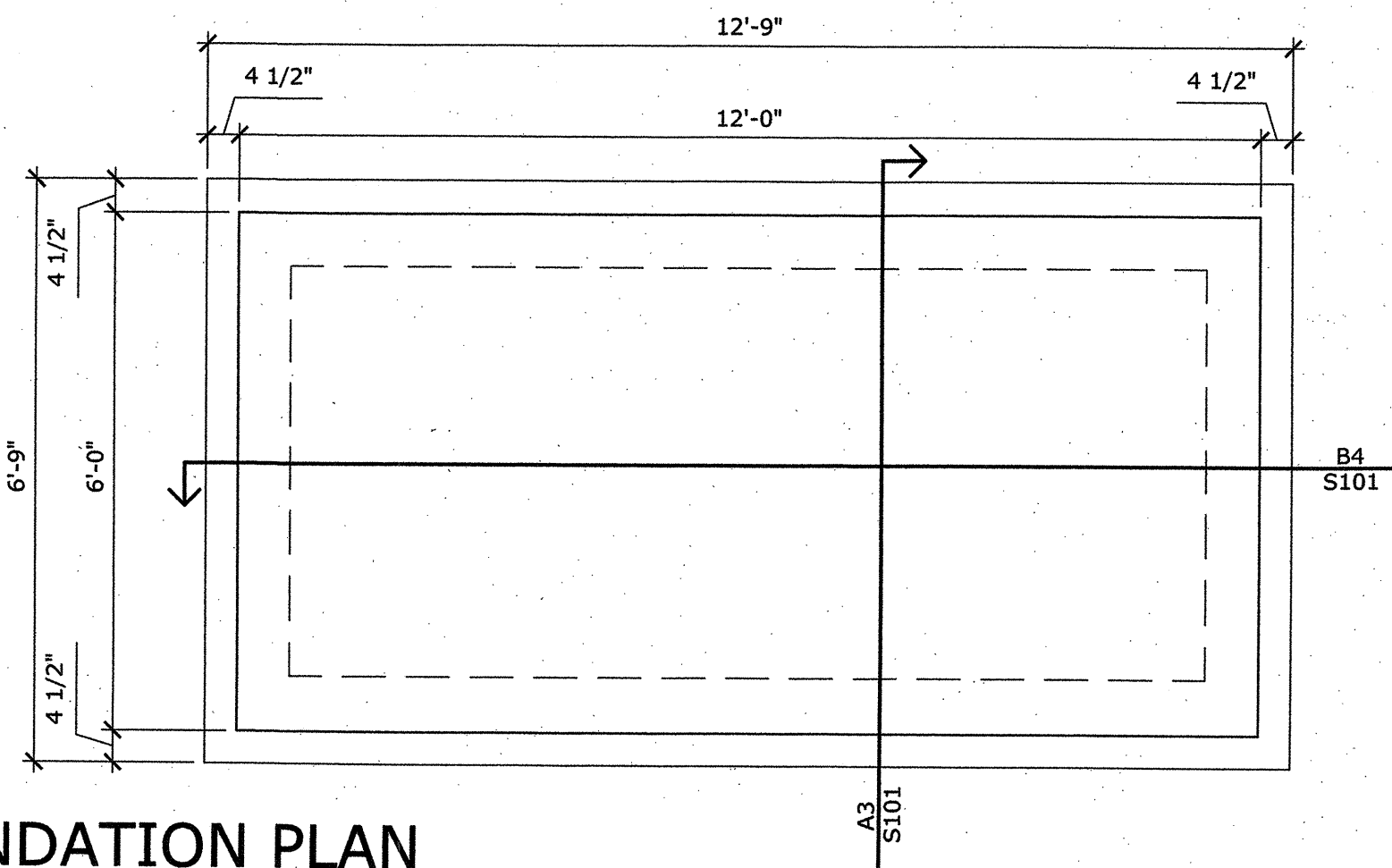
1. THE ABOVE INFORMATION IS COMPLEMENTARY TO CONCRETE SPECIFICATIONS ON SHEET S102. IF ANYTHING WRITTEN IN THE INFORMATION ABOVE DOES NOT MATCH OR WILL NOT ALLOW FOR THE PRODUCTS SPECIFIED ON SHEET S102 TO BE INSTALLED AND PERFORM AS SPECIFIED, CONTACT ARCHITECT BEFORE ORDERING OR PLACING OF CONCRETE. FAILURE TO DO SO WILL RESULT IN CONTRACTOR BEING RESPONSIBLE FOR REMOVING AND REPLACING ANY CONCRETE PLACE WHICH DOES NOT MEET THE REQUIREMENTS OF SHEET S102 AT HIS OWN EXPENSE.



B4 FOUNDATION SECTION
SCALE: 1/2" = 1'-0"



A3 FOUNDATION SECTION
SCALE: 1/2" = 1'-0"



A4 FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

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ARCHITECTURE
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INTERIOR DESIGN

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JAMES E. KREIS
NEW MEXICO
8928
REGISTERED PROFESSIONAL ENGINEER

VIETNAM VETERAN'S MEMORIAL
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO
COA JOB NO. 6072.01

PROJECT NO: 3036.01
CAD DWG FILE: VVM-S101.DWG
DRAWN BY: SJA
CHECKED BY: SAM
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SHEET TITLE
STRUCTURAL GENERAL NOTES,
FOUNDATION PLAN, FOUNDATION SECTIONS

MARK DATE
ISSUE
05 FEBRUARY 2010

DRAWING SHEET
S101

1

2

3

4

5

SELF-CONSOLIDATING INTEGRAL COLOR CONCRETE:

CONT:

INTEGRAL COLOR SPECIFICATION:

SECTION INCLUDES: SELF-PLACING, SELF-CONSOLIDATING CONCRETE FOR AGILIA APPLICATIONS.

REFERENCES

I. AMERICAN CONCRETE INSTITUTE (ACI):

ACI 301: SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 305R: HOT WEATHER CONCRETING

ACI 306R: COLD WEATHER CONCRETING

ACI 308: STANDARD PRACTICE FOR CURING CONCRETE

ACI 318: BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

II. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM):

ASTM C33: STANDARD SPECIFICATIONS FOR CONCRETE AGGREGATES

ASTM C150: STANDARD SPECIFICATIONS FOR PORTLAND CEMENT

ASTM C171: STANDARD SPECIFICATIONS FOR SHEET MATERIALS FOR CURING CONCRETE

ASTM C260: STANDARD SPECIFICATIONS FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE

ASTM C309: STANDARD SPECIFICATIONS FOR LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE

ASTM C494: STANDARD SPECIFICATIONS FOR CHEMICAL ADMIXTURES FOR CONCRETE

ASTM C595: SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS

ASTM C618: SPECIFICATION FOR COAL FLY ASH AND RAW OR CALCINED NATURAL POZZOLAN FOR USE AS A MINERAL ADMIXTURE IN CONCRETE

ASCC (AMERICAN SOCIETY OF CONCRETE CONTRACTORS) - "GUIDE FOR SURFACE FINISH OF FORMED CONCRETE".

SUBMITTALS

PRODUCT DATA: MANUFACTURER'S SPECIFICATIONS AND TECHNICAL DATA INCLUDING:

1. MANUFACTURER'S DATA SHEETS: THIS DOCUMENT IS A TECHNICAL DATA SHEET USED FOR AGILIA.

2. CONCRETE MIX DESIGN : SUBMIT MIX IDENTIFICATION, DESIGN STRENGTH AT 28 OR 56 DAYS, MAXIMUM AGGREGATE SIZE, DESIGN AIR CONTENT, DESIGN SLUMP-FLOW TO ACHIEVE PERFORMANCE PARAMETERS FOR EACH CONCRETE TYPE FOR REVIEW AND RETURN PRIOR TO PLACING CONCRETE.

3. SHOP DRAWINGS: INDICATE DIMENSIONS, GENERAL CONSTRUCTION, SPECIFIC MODIFICATIONS, PLUS THE FOLLOWING SPECIFIC REQUIREMENTS.

QUALITY ASSURANCE

A PRE-JOB CONFERENCE WILL BE HELD AT THE JOBSITE TO DISCUSS SITE RELATED POINTS IN THIS SECTION OF THE SPECIFICATION. THOSE PRESENT SHALL INCLUDE LAFARGE READY MIX, THE CONTRACTOR, THE ARCHITECT AND THE OWNER. NO CONCRETE PLACEMENTS OF THE AGILIA CONCRETE WILL BE ALLOWED PRIOR TO THIS MEETING. SELF-CONSOLIDATING CONCRETE MANUFACTURER SHALL MAKE AVAILABLE A QUALIFIED INDIVIDUAL TO MONITOR CONCRETE QUALITY AND PERFORMANCE AS SPECIFIED.

CONCRETE MIXTURE VERIFICATIONS

SUBMIT FINAL CONCRETE MIX VERIFICATION 2 WEEKS PRIOR TO PLACING CONCRETE. MIXTURES SHALL HAVE OVER-DESIGN IN ACCORDANCE WITH ACI 301, TABLE 3.9.2.2. THE SELF-CONSOLIDATING MANUFACTURER, PRIOR TO SUBMITTAL, SHALL REVIEW MIX DESIGN. INCLUDE THE FOLLOWING INFORMATION FOR EACH CONCRETE MIX DESIGN:

MAXIMUM SIZE OF COARSE AGGREGATES

FLOW: BY LAFARGE STANDARDS

AIR CONTENT: FRESHLY MIXED CONCRETE BY THE PRESSURE METHOD: ASTM C231

UNIT WEIGHT OF CONCRETE: ASTM C138

STRENGTH AT 28 OR 56 DAYS: ASTM C39

PRODUCTS

MATERIALS:

CEMENT: ASTM C150-98 TYPE 1, 1/2, OR 3.

BLENDED HYDRAULIC CEMENTS: ASTM C595.

SUPPLEMENTARY CEMENTING MATERIALS: ASTM C898 OR ASTM C618.

COARSE AGGREGATE: ASTM C33-01; TO COMPLY WITH DURABILITY REQUIREMENTS.

FINE AGGREGATE: ASTM C33-01; COMPLY WITH PROJECT DURABILITY REQUIREMENTS.

ADMIXTURES: ASTM C494-92 SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE

WATER: ASTM C94.

EVAPORATION RETARDER / CURING COMPOUND: EVAPORATION RETARDER: CONFILM BY BASF ADMIXTURES OR EQUIVALENT FOR "FLAT WORK/SLABS" COVERED BY THESE SPECIFICATIONS.

CURING COMPOUND: CURE & SEAL 25 LV BY BASF FOR "FLAT WORK/SLABS" COVERED BY THESE SPECIFICATIONS. IN CASES WHERE COLOR AGILIA IS REQUIRED, CURE & SEAL 25 LV BY BASF CAN ALSO BE USED.

FORMING MATERIALS: FORMING MATERIAL SHALL BE STEEL, ALUMINUM (CURED), STEEL FRAMED PLYWOOD, PLASTIC OR PAPER FACED PLYWOOD, SO AS TO NOT IMPART PATTERN FROM FORMWORK INTO PLACED CONCRETE. FORMWORK USED FOR ARCHITECTURAL CONCRETE SHALL BE IN EXCELLENT CONDITION.

DO NOT USE OIL BASED FORMWORK RELEASE AGENTS. IF NECESSARY USE RELEASE AGENTS COMPATIBLE WITH THE SPECIFIED CONCRETE. ANY CONCRETE PLACED THAT IS HARRIED OR CHANGES THE COLOR OR TEXTURE OF THE PLACED CONCRETE BECAUSE OF THE USE OF UNAPPROVED FORMWORK RELEASE AGENTS, SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

CONCRETE REQUIREMENTS

SELF-CONSOLIDATING CONCRETE: AGILIA ARCHITECTURAL, LAFARGE NORTH AMERICA; PROPRIETARY READY-MIX CONCRETE WITH THE FOLLOWING CHARACTERISTICS:

FLOW:

FLOW CHARACTERISTIC ARE TO BE DETERMINED BY THE SELF-CONSOLIDATING MANUFACTURER AND ARE TYPICALLY INCLUDED IN THE MIX DESIGN SUBMITTAL FOR HORIZONTAL, VERTICAL AND ARCHITECTURAL APPLICATIONS.

COMPRESSIVE STRENGTH:

4500 PSI (30 MPA - 70 MPA)

MANUFACTURER SHALL REVIEW THE PROPORTIONING AND PRODUCTION OF SELF-CONSOLIDATING CONCRETE MIX.

THE MANUFACTURER SHALL MAKE A TRIAL BATCH AND THEN MIX TO THE CORRECT CONSISTENCY; AFTERWARDS, THE GENERAL CONTRACTOR WILL PROCEED WITH PRODUCING MOCK UP SECTION PRIOR TO POURING CONCRETE FOR THE FINAL PROJECT.

THE MOCK UP SECTION SHOULD INCLUDE SAMPLE OF CAST-IN-PLACE LETTERS AND A SAMPLE OF TROWELLING IN THE FOLLOWING LEVELS: LIGHT, MEDIUM AND HARD. LEAVE MOCK UP AT THE SITE UNTIL FINAL COMPLETION OF THE PROJECT. DO NOT PROCEED UNTIL THE ARCHITECT AND OWNER HAVE APPROVED COLOR & FINISH OF THE MOCK UP, WHICH SHALL BE USED FOR CONCRETE WORK.

EXAMINATION

VERIFICATION OF CONDITIONS: EXAMINE AREAS AND CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND IDENTIFY CONDITIONS DETRIMENTAL TO PROPER OR TIMELY COMPLETION. DO NOT PROCEED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

PREPARATION

COORDINATION: NOTIFY OTHERS INVOLVED, ALLOWING INSTALLATION AND COMPLETION OF THEIR WORK PRIOR TO CONCRETE PLACEMENT.

SURFACE PREPARATION: IMMEDIATELY BEFORE CONCRETE PLACEMENT, THOROUGHLY WET MOISTURE-ABSORBING MATERIAL THAT WILL BE IN CONTACT WITH CONCRETE, WITHOUT DEVELOPING STANDING WATER. ENSURE THAT CONCRETE STEEL FORMS AND REBARS ARE NOT STEAMING HOT PRIOR TO POURING AGILIA IN THE FORMWORK.

FOR FLAT WORK/SLABS, AGILIA HORIZONTAL CAN BE POURED DIRECTLY ON THE EXISTING SURFACE IF THE SURFACE IS NON ABSORBENT, IN ALL OTHER CASES SEE BELOW:

SUBSTRATE TYPES:

ANY STABLE WELL COMPACTED SUBSTRATE FREE OF DEBRIS.

LAID UNBOUNDED.

SURFACE MUST BE RELATIVELY FLAT WITH AN UNEVENNESS LEVEL OF LESS THAN 1/8 INCH THICK FOR A 6 FEET CROSS SECTION (RULE)

PREPARATION:

IN ALL CASES, A POLYETHYLENE MEMBRANE WITH A MINIMUM THICKNESS OF 5 MILS MUST BE LAID DOWN (SUGGESTED THICKNESS). THE MEMBRANE SHOULD BE SECURED AND OVERLAPPED TO INSURE NO MOVEMENT AND NO CONCRETE GOING UNDER IT, THE POLYETHYLENE MEMBRANE SHOULD EXTEND ABOVE THE LEVEL OF THE POUR.

ETHAFAOM OR POLYSTYRENE CAN BE USED TO SEAL ANY HOLES OR LEAKS IN THE FORM.

INSTALLATION

CONCRETE MIXING: ACI 301, READY MIXED.

HOT WEATHER CONCRETE: COMPLY WITH ACI 305R WHEN MAXIMUM DAILY TEMPERATURE EXCEEDS 85 DEGREES F. OR RAPID DRYING CONDITIONS EXIST (EVAPORATION RATE EXCEEDS 0.15 POUNDS PER SQUARE FOOT PER HOUR. REFER TO ACI 305R, CHAPTER 2).

COLD WEATHER CONCRETE: COMPLY WITH ACI 306R WHEN FREEZING CONDITIONS OR A MEAN DAILY TEMPERATURE BELOW 40 DEGREES F. IS ENCOUNTERED.

CONCRETE PLACEMENT AND CONSOLIDATION

PLACE CONCRETE WITHIN 90 MINUTES AFTER THE MIX WATER HAS BEEN ADDED UNLESS THE LAFARGE REPRESENTATIVE HAS MADE ADJUSTMENTS TO THE MIX.

FOR FLAT WORK/SLABS:

WHEN AGILIA HORIZONTAL HAS BEEN PLACED TO THE CORRECT LEVEL, THE SURFACE SHOULD BE FINISHED WITH AN AGILIA FINISHING BAR.

THE LEVEL OF THE CONCRETE MUST BE VERIFIED BY THE STANDARD EQUIPMENT AND METHOD AS IT WOULD BE FOR REGULAR CONCRETE.

THE FINISHING BAR IS MOVED ACROSS THE SURFACE OF THE AGILIA CONCRETE, IN A MOTION TO GENERATE GENTLE WAVES IN BOTH DIRECTIONS AT 90 DEGREES FROM EACH OTHER.

FIRST PASS SHOULD BE DEEPER THAN THE SECOND PASS TO A MAXIMUM DEPTH REACHING ¾ THE DEPTH

OF THE FINISHING BAR.

SECOND PASS SHOULD BE A LIGHT MOTION OVER THE SURFACE.

THE MINIMUM COVER OVER ANY BURIED ELEMENT MUST NOT BE LESS THAN 1 ¼ INCHES (APPROXIMATELY 30MM).

THE MINIMUM THICKNESS RECOMMENDED OF ANY HORIZONTAL ELEMENT SHOULD NOT BE LESS THAN 2 ½ INCHES (APPROXIMATELY 65 MM).

FINISHES

AS APPROVED BY ARCHITECT FROM MOCK-UP.

REMOVE FINS OVER 1/8 INCH IN HEIGHT.

CONCRETE CURING AND PROTECTION

PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES USING THE EVAPORATION RETARDER CONFILM BY BASF OR EQUIVALENT, FOR "FLAT WORK/SLABS" COVERED BY THESE SPECIFICATIONS.

THE EVAPORATION RETARDER SHOULD BE USED UNTIL THE TIME THE CONCRETE IS READY TO BE FINISHED. THE CONFILM SHOULD BE APPLIED EVERY 90 MINUTES PRIOR TO FINISH THE CONCRETE. CONFILM IS NOT A CURING COMPOUND. A WIND BARRIER IS ALSO RECOMMENDED.

THE RECOMMENDED CURING AGENT IS CURE & SEAL 25 LV BY BASF FOR "FLAT WORK/SLABS" COVERED BY THESE SPECIFICATIONS. THE CURING SHOULD BE APPLIED RIGHT AFTER THE CONCRETE IS FINISHED. IT SHOULD BE APPLIED USING A SPRAYING BOTTLE.

IN CASES WHERE COLOR AGILIA IS REQUIRED, CURE & SEAL 25 LV BY BASF CAN ALSO BE USED. IT IS A SOLVENT BASE PRODUCT AND THE PRODUCT CAN BE USED DURING WINTER. PLEASE REFER TO THE TECHNICAL DATA SHEET BY KAUFMAN FOR MSDS AND FOR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE).

INCLUDES INTEGRALLY COLORED CONCRETE, REFER TO SELF-CONSOLIDATING INTEGRAL COLOR CONCRETE FOR CONCRETE SPECIFICATIONS.

SUBMITTALS

SAMPLES FOR COLOR SELECTION: SUBMIT COLOR ADDITIVE MANUFACTURER'S ACTUAL CONCRETE COLOR CHIP, INDICATE COLOR ADDITIVE NAME OR REQUIRED DOSAGE RATE.

COLORED CONCRETE MOCK-UP:

REFER TO SELF-CONSOLIDATING INTEGRAL COLOR CONCRETE SPECIFICATIONS FOR MOCK-UP REQUIREMENTS.

SUBMIT PRODUCT DATA AND MANUFACTURER'S INSTRUCTIONS FOR: COLOR ADDITIVES & CURING COMPOUNDS.

QUALITY ASSURANCE

PERFORM WORK IN ACCORDANCE WITH ACI 301, SECTION 6 - ARCHITECTURAL CONCRETE.

CONFORM TO ACI 305 DURING HOT WEATHER.

CONFORM TO ACI 306 DURING COLD WEATHER.

OBTAIN EACH MATERIAL FROM SAME SOURCE AND MAINTAIN HIGH DEGREE OF CONSISTENCY IN WORKMANSHIP THROUGHOUT PROJECT.

INSTALLER QUALIFICATIONS

CONCRETE WORK SHALL BE BY FIRM WITH FIVE YEARS EXPERIENCE WITH WORK OF SIMILAR SCOPE AND QUALITY. MAINTAIN CONSISTENCY IN WORKMANSHIP THROUGHOUT COLORED CONCRETE WORK. PART OF THE PRO ARTEVIA NETWORK.

DELIVERY, STORAGE AND HANDLING

COLOR ADDITIVES: COMPLY WITH MANUFACTURER'S INSTRUCTIONS. ONLY ADD PIGMENTS AT THE BATCH PLANT BY AUTOMATED DOSING SYSTEM.

SCHEDULE DELIVERY OF CONCRETE TO PROVIDE CONSISTENT MIX TIMES FROM BATCHING UNTIL DISCHARGE.

PROJECT CONDITIONS

COLORED CONCRETE ENVIRONMENT REQUIREMENTS:

1. MINIMIZE CONCRETE EXPOSURE TO WIND AND HOT SUN.

2. AVOID PLACING CONCRETE IF RAIN OR SNOW. PROTECT FRESH CONCRETE FROM RAIN, SNOW AND FREEZING.

3. PROTECT CONCRETE SLABS:

A. PROTECT FROM PETROLEUM STAINS DURING CONSTRUCTION.

B. DIAPER HYDRAULIC POWER EQUIPMENT.

C. RESTRICT VEHICULAR PARKING.

D. RESTRICT USE OF ACIDS OR ACIDIC DETERGENTS ON SLAB.

PRODUCTS

COLORED ADDITIVES FOR INTEGRALLY COLORED CONCRETE:

MANUFACTURER: ARTEVIA EXCLUSIVELY PRODUCED BY LAFARGE NORTH AMERICA; WWW.ARTEVIA-US.COM FOR CONTACT INFORMATION.

COLOR SHALL BE "SALMON".

OPTIMAL FINISH LOW GLOSS.

COLORED ADDITIVES SHALL CONTAIN PURE, CONCENTRATED MINERAL PIGMENTS SPECIALLY PROCESSED FOR MIXING INTO CONCRETE AND COMPLYING WITH ASTM C379.

LAFARGE USES THE CHAMELEON LIQUID PIGMENT DOSING SYSTEM TO ADD COLOR TO CONCRETE. THE CHAMELEON IS A COMPUTER-CONTROLLED AUTOMATIC COLOR DOSING SYSTEM USED BY LAFARGE TO IMPROVE COLOR ACCURACY, AVAILABILITY AND HANDLING EFFICIENCY.

PACKAGING: COLOR ADDITIVES ARE TO BE ADDED TO THE MIX AT THE PLANT BY A CHAMELEON™ LIQUID DOSING SYSTEM.

CURING COMPOUND FOR COLORED CONCRETE: CURING COMPOUND SHALL COMPLY WITH ASTM C309 TYPE 1 CLASS A AND BE APPROVED BY COLOR ADDITIVE MANUFACTURER FOR USE WITH COLORED CONCRETE.

MAINTAIN CONCRETE BETWEEN 65° AND 85°F (18° TO 29°C) DURING CURING.

APPLY CURING COMPOUND IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. APPLY CURING COMPOUND AT CONSISTENT TIME FOR EACH POUR TO MAINTAIN CLOSE COLOR CONSISTENCY.

ARCHITECTURE

PLANNING

INTERIOR DESIGN

GREER STAFFORD SJCF

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THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED, AND DATED BELOW

STATE OF NEW MEXICO

REGISTERED ARCHITECT

02/23/24

VIETNAM VETERAN'S MEMORIAL
CITY OF ALBUQUERQUE
ALBUQUERQUE, NEW MEXICO
COA JOB NO. 6072.01

PROJECT NO: 3036.01

CAD DWG FILE: VVM-A101.DWG

DRAWN BY: SJA

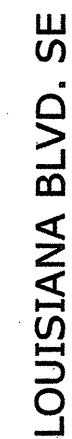
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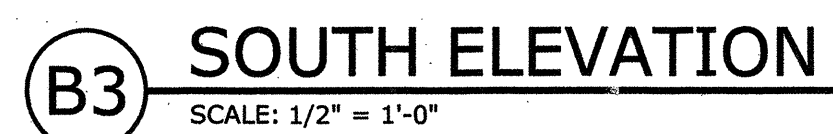
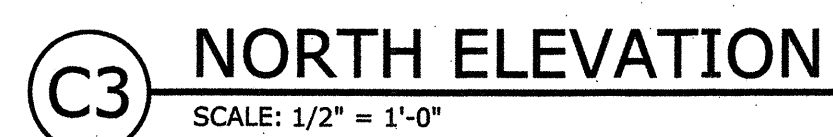
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SHEET TITLE
CONCRETE SPECIFICATIONS

DRAWING SHEET

A101





DRAWING SHEET

A103