

**NEW SNOW REMOVAL
EQUIPMENT BUILDING**
 VERMONT AGENCY OF TRANSPORTATION
 CLARENDON, VERMONT

REVISIONS

| NO. | DESCRIPTION | DATE |
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DATE: 06/29/2006

DRAWN BY: MDC

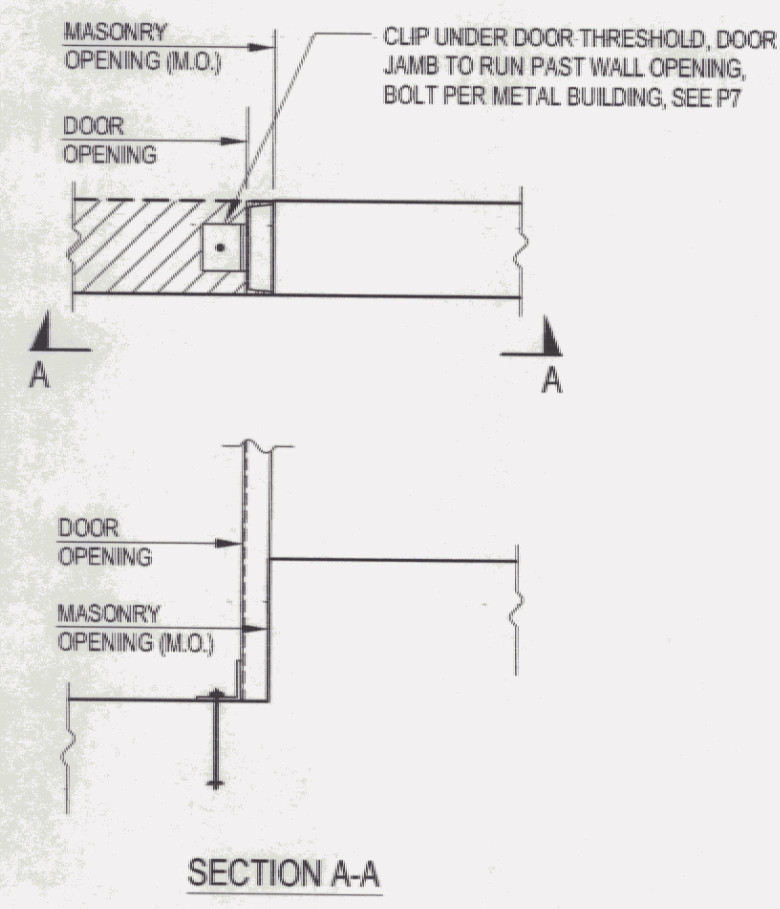
CHECKED BY: SJS

SHEET TITLE:

**FOUNDATION
DETAILS AND
NOTES**

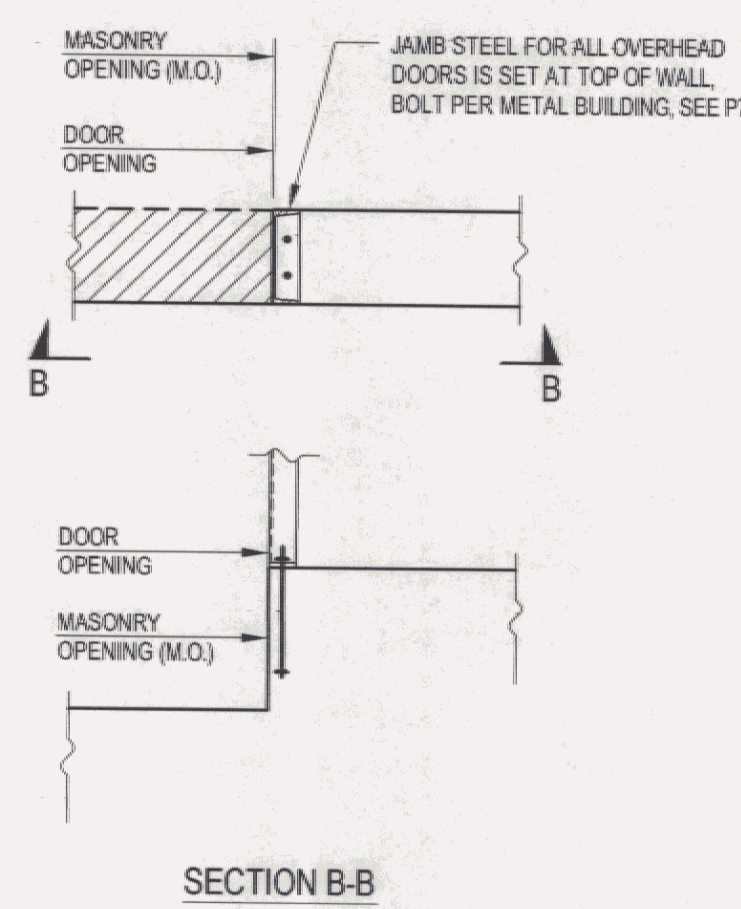
SHEET NUMBER:

S3



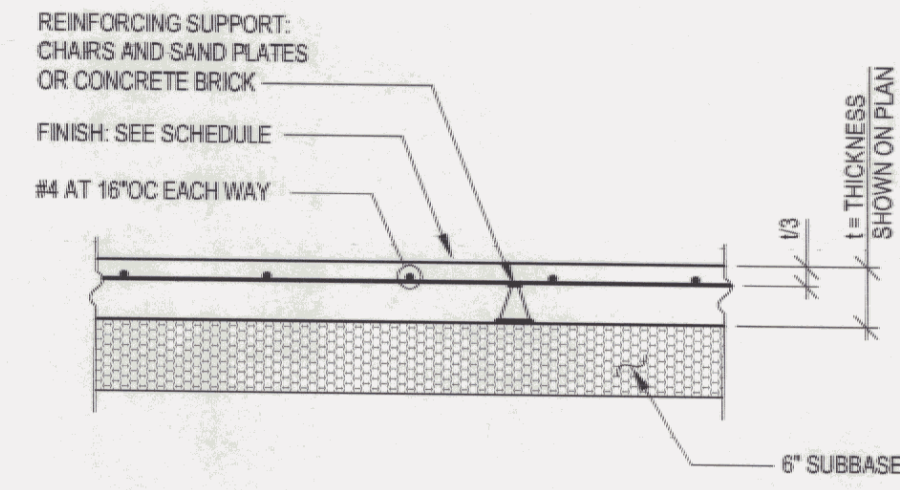
SECTION A-A

1 SECTION: PERSON DOOR
S3 3/4" = 1'-0"

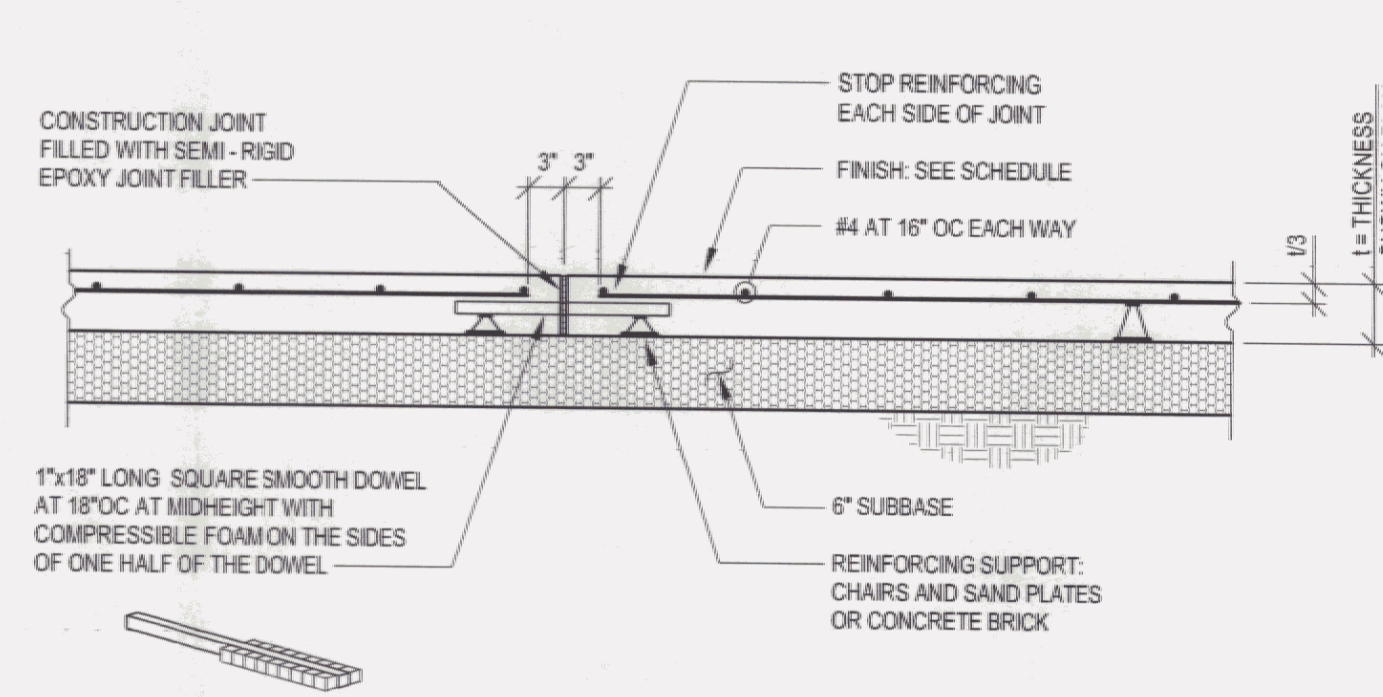


SECTION B-B

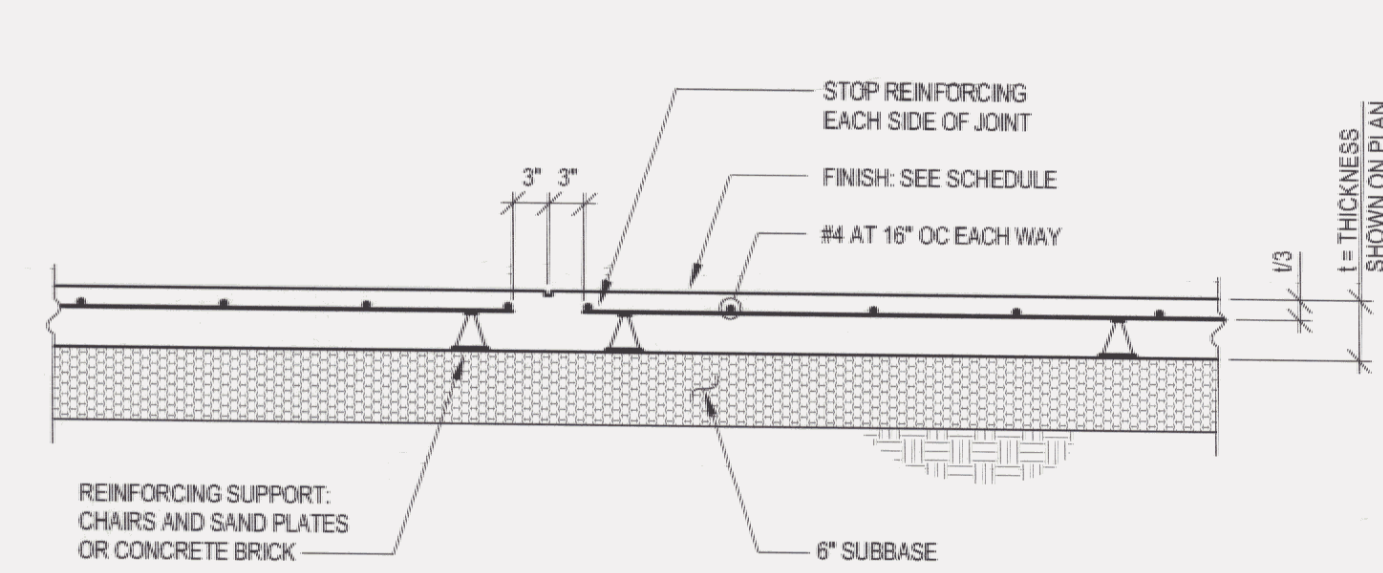
2 SECTION: GARAGE DOOR
S3 3/4" = 1'-0"



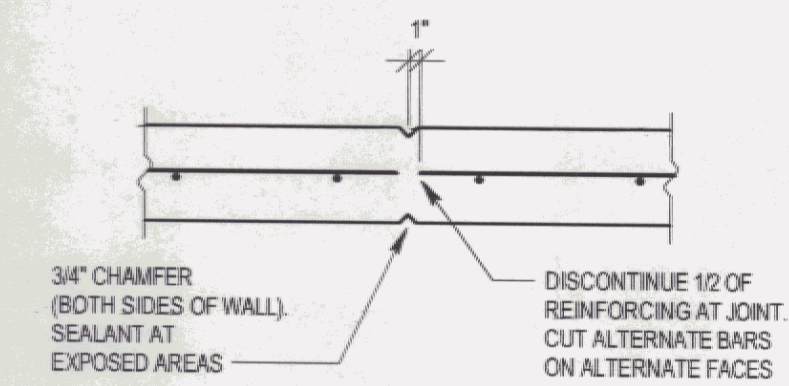
3 SECTION: SLAB-ON-GRADE
S3 3/4" = 1'-0"



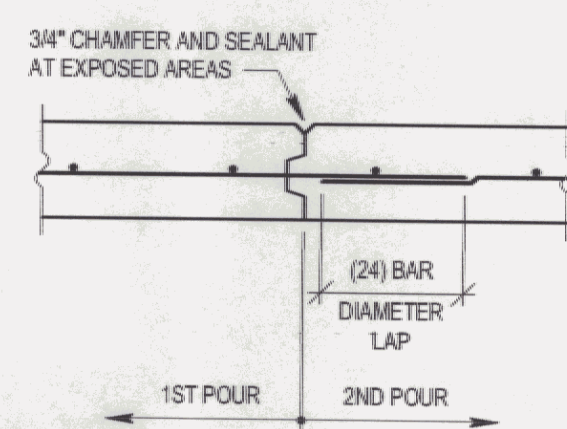
4 SECTION:
SLAB-ON-GRADE CONSTRUCTION JOINT
S3 3/4" = 1'-0" (NOTED CJ ON PLAN)



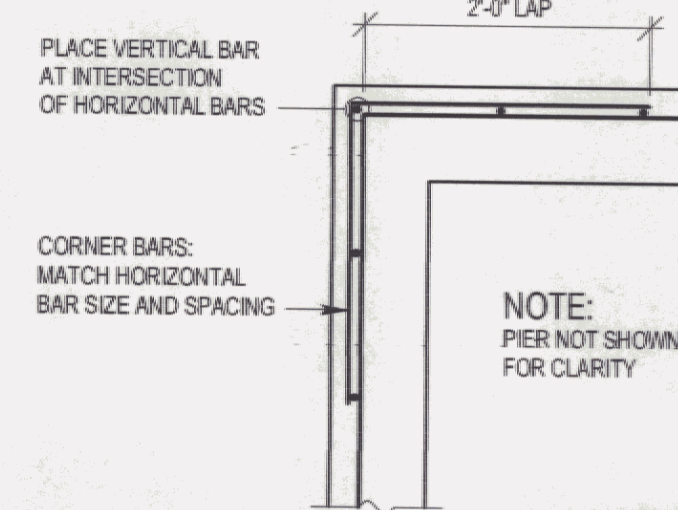
5 SECTION:
SLAB-ON-GRADE CONSTRUCTION JOINT
S3 3/4" = 1'-0" (NOTED SJ ON PLAN)



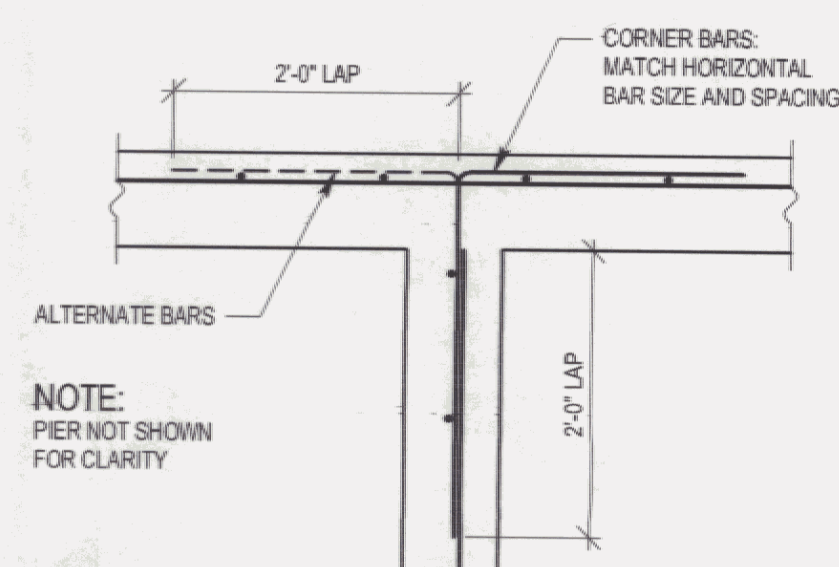
6 DETAIL: WALL CONTROL JOINT
S3 3/4" = 1'-0"



7 DETAIL: WALL CONSTRUCTION JOINT
S3 3/4" = 1'-0"



8 DETAIL: WALL CORNER
S3 3/4" = 1'-0"



9 DETAIL: WALL T-INTERSECTION
S3 3/4" = 1'-0"

NOTES

DESIGN DATA:

- DESIGN LOADS:
 - LIVE LOAD (SNOW): GROUND SNOW LOAD ZONE:
- SOIL BEARING PRESSURE: 2,000 PSF
- CONCRETE STRENGTH:
 - FOOTINGS, FOUNDATION WALLS AND RETAINING WALLS: CLASS "B" PER A.O.T. STANDARD SPECIFICATIONS, TABLE 501.03A
f_c (28 DAY STRENGTH): 3,500 PSI.
SLUMP: 2 TO 4 INCHES.
AIR ENTRAINMENT: 5 PERCENT ± 1 PERCENT.
 - SLAB-ON-GRADE: CLASS "B" PER A.O.T. STANDARD SPECIFICATIONS, TABLE 501.03A
f_c (28 DAY STRENGTH): 3,500 PSI.
SLUMP: 2 TO 4 INCHES.
AIR ENTRAINMENT: 5 PERCENT ± 1 PERCENT.
- STEEL REINFORCING: ASTM A615, GRADE 60.
- DESIGNED PER LOADS PROVIDED ON AMERICAN BUILDING SYSTEMS DRAWINGS DATED 6/23/06 FOR CONSTRUCTION.

GENERAL:

- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL MEMBERS.
 - DO NOT SCALE DRAWINGS.
 - DETAILS SHOWN APPLY TO ALL SIMILAR CONDITIONS UNLESS INDICATED OTHERWISE.
 - ENGINEER TO REVIEW ALL PROPOSED SUBSTITUTIONS OR OTHER DEVIATIONS FROM THE STRUCTURAL DRAWINGS.
 - THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- FOUNDATION:
- PREPARATION:
 - STRIP AND PROOFROLL BUILDING AREA. VERIFY ALL PROCEDURES WITH GEOTECHNICAL ENGINEER PRIOR TO WORK.
 - SOIL BEARING PRESSURE:
 - FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING PRESSURE OF 2,000 PSF. ACTUAL CONDITIONS SHALL BE FIELD VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO FOOTING PLACEMENT.
 - SOIL BEARING SURFACES:
 - BEAR ALL FOOTINGS ON COMPACTED STRUCTURAL FILL OR FIRM UNDISTURBED EARTH.
 - FOOTINGS SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND. DO NOT ALLOW GROUND BENEATH FOOTINGS TO FREEZE.
 - PREVIOUSLY ACCEPTED SOIL BEARING SURFACES WHICH HAVE BECOME SATURATED, FROZEN, OR UNSTABLE SHALL AGAIN BE REVIEWED BY THE GEOTECHNICAL ENGINEER.

CONCRETE:

- FOOTINGS:
 - CENTER FOOTINGS UNDER WALLS, PIERS, OR COLUMNS UNLESS NOTED OTHERWISE.
 - CAST FOOTING STEPS MONOLITHICALLY.
- WALLS:
 - VERIFY MECHANICAL OPENING SIZES AND LOCATIONS.
 - DO NOT PLACE BACKFILL UNTIL A MINIMUM WALL STRENGTH OF 70 PERCENT f_c HAS BEEN ATTAINED.
 - WHERE BACKFILLING IS ON ONE SIDE ONLY, DO NOT BACKFILL WALL UNTIL A MINIMUM WALL STRENGTH OF 100 PERCENT f_c HAS BEEN ATTAINED.
 - NO HOLES OR OPENINGS ARE PERMITTED THROUGH CONCRETE WALLS EXCEPT AS FOLLOWS:
 - WHERE SHOWN AND AS DETAILED ON DRAWINGS.
 - MISCELLANEOUS HOLES THROUGH WALLS WHICH DO NOT DISPLACE MORE THAN ONE BAR. (THESE DO NOT REQUIRE ADDITIONAL REINFORCEMENT.)
 - USE SNAP OFF TIES WITH 1 INCH OF CLEARANCE FROM FACE OF WALL.
- STEEL REINFORCING:
 - REINFORCE ALL CONCRETE FOOTINGS, WALLS, AND SLABS. REINFORCING SHOWN APPLIES TO ALL SIMILAR CONDITIONS, UNLESS INDICATED OTHERWISE.
 - PROVIDE CORNER BARS IN FOOTINGS. MATCH CONTINUOUS REINFORCING SIZE AND NUMBER. LAP CORNER BARS 2 FEET WITH CONTINUOUS REINFORCING.
 - TRANSVERSE REINFORCING SHALL BE PLACED WHERE SHOWN AT BOTTOM FACE OF CONTINUOUS FOOTINGS.
 - LAP FOOTING REINFORCING AND HORIZONTAL WALL REINFORCING 24 BAR DIAMETERS AT SPLICES.
 - PROVIDE DOWELS WHERE CONCRETE WALLS AND PIERS MEET FOOTINGS. MATCH VERTICAL REINFORCING SIZE AND SPACING. DOWELS SHALL EXTEND TO 3 INCHES OF BOTTOM FACE OF FOOTING AND SHALL TERMINATE WITH AN A.C.I. STANDARD 90 DEGREE HOOK. LAP DOWELS 30 BAR DIAMETERS WITH VERTICAL REINFORCING.
 - AT CONCRETE WALL CORNER INTERSECTIONS: PROVIDE CORNER BARS AT OUTER FACE. MATCH HORIZONTAL REINFORCING SIZE AND SPACING. LAP CORNER BARS 2 FEET WITH HORIZONTAL REINFORCING.
 - AT CONCRETE WALL T-INTERSECTIONS: PROVIDE CORNER BARS AT EACH FACE OF INTERSECTING WALL TO OUTER FACE OF THROUGH WALL.
 - CONCRETE COVER FOR REINFORCING (UNLESS DETAILED OTHERWISE):
 - FOOTINGS POURED AGAINST EARTH: 3 INCHES.
 - SURFACES EXPOSED TO WEATHER OR EARTH:
 - BAR LARGER THAN #5: 2 INCHES.
 - #5 BARS OR SMALLER: 1 1/2 INCHES.
 - PROVIDE TWO #5 EACH SIDE OF OPENINGS (12 INCHES OR OVER) IN WALLS AND SLABS, 4 FEET LONGER THAN OPENING, UNLESS NOTED OTHERWISE ON DRAWINGS.
 - PROVIDE TWO #4 BY 4 FEET LONG DIAGONAL BARS AT ALL INSIDE CORNERS AT ALL OPENINGS (12 INCHES OR OVER) IN CONCRETE WALLS AND SLABS.
- ADDITIONAL CONCRETE NOTES:
 - PROVIDE 3/4" CHAMFER AT EXPOSED CORNERS.
 - ALL KEYS SHALL BE 2 INCHES BY 4 INCHES UNLESS NOTED OTHERWISE ON DRAWINGS.
 - CAST CONCRETE ON SLOPED SURFACES BEGINNING AT LOWEST ELEVATION AND CONTINUING MONOLITHICALLY TOWARD HIGHER ELEVATIONS UNTIL INTENDED POUR IS COMPLETED.
 - ALL CONCRETE WORK TO BE PER AGENCY OF TRANSPORTATION STANDARD.
 - COORDINATE TESTING BY DIAMETER. CONTRACTOR TO COORDINATE SCHEDULING OF TESTING.
 - CONCRETE CURING SHALL FOLLOW IMMEDIATELY AFTER FORM REMOVAL PER A.O.T. STANDARD 501.17A. WATER CURING WILL BE REQUIRED, UNLESS ALTERNATE MEANS OF CURING IS APPROVED, IN WRITING BY THE PROJECT ENGINEER.
- SLAB ON GRADE:
 - PROVIDE STEEL TROWEL FINISH.

RECEIVED

JUN 30 2006

THE QUINN COMPANY