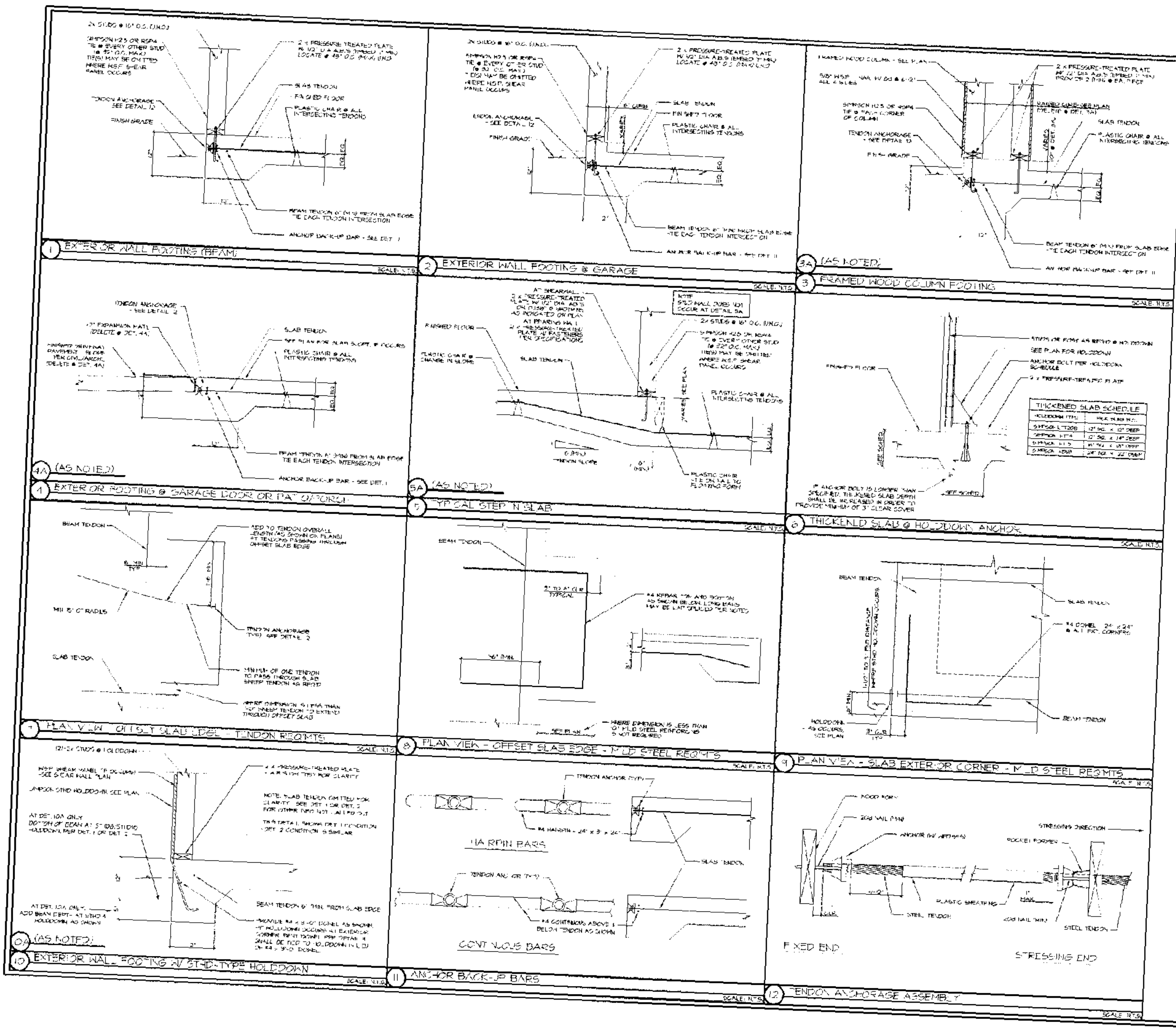


GENERAL NOTES

1. ALL DIMENSIONS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS.
2. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR ANY EXTERIOR SLAB, SIDEWALKS PADS, ETC. NOT SHOWN ON THESE DRAWINGS.
3. TYPICAL ANCHOR BOLT 1/2" DIA x 10" LONG @ 48" O.C. UNLESS NOTED OTHERWISE ON PLAN. ALL WOOD SILL PLATES SHALL HAVE MIN. OF 2 ANCHOR BOLTS PER PLATE. ANCHOR BOLTS SHALL BE LOCATED NOT LESS THAN 4 1/2" NOR MORE THAN 12" FROM END OF PLATE OR AT PLATE SPLICE. ANCHORS USED FOR HOLDOWNS SHALL NOT BE CONSIDERED AS INCLUDED NUMBER OF ANCHOR BOLTS. SEE SHEARWALL LAYOUT PLAN FOR THE SPACING OF ANCHOR BOLTS AT THE LOCATION OF SHEAR PANELS.
4. THE OWNER OR THE ENGINEER OR ARCHITECT OF RECORD ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS AND SHALL PROVIDE INSPECTIONS DURING CONSTRUCTION.
5. MAXIMUM PLUMBING BOX SIZE SHALL BE 12" x 12". LOCATED AT A MINIMUM OF 6" FROM ANY EDGE.

POST TENSION NOTES

DESIGN CRITERIA:

EDGE MOISTURE VARIATION DIST. (EM): CENTER LIFT = 5 FT; EDGE LIFT = 2 FT.
ESTIMATED DIFFERENTIAL SWELL (YM): CENTER LIFT = 1.496 IN; EDGE LIFT = 0.221 IN.
ALLOWABLE SOIL BEARING PRESSURE: 1250 PSF

CONCRETE:

MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 2500 PSI
STRENGTH AT TIME TRANSFER: 2000 PSI
USE PORTLAND TYPE II CEMENT

REINFORCING STEEL:

ASTM A615 -40 KSI(GR. 40) - # 3 MIN. LAP 12"
ASTM A615 -60 KSI(GR. 60) - # 4 & LARGER (MIN. LAP 24")

POST TENSIONING STEEL:

ALL POST TENSIONING STEEL TO BE 1/2" DIAMETER, SEVEN WIRE LOW RELAXATION STRAND AS PER ASTM A 416. PRE STRESSING STEEL SHALL BE FREE FROM CORROSION & COATED WITH A CORROSION PROTECTIVE COATING & SHEATHED IN HIGH DENSITY POLYTHELENE OR POLYPROPYLENE.

NOMINAL DIAMETER .... 1/2"
NOMINAL AREA .... 0.153 SQ. IN.
MAX. TEMPORARY FORCE .... 33 KIPS
ANCHORING FORCE .... 28.9 KIPS

TENDON PLACEMENT

SEE FOUNDATION PLAN FOR THE LOCATION OF EACH TENDON.

THE CONTRACTOR SHALL DRILL 3/4" DIAMETER HOLES IN THE EDGE FORMS FOR TENDON PLACEMENT.

TENDONS TO BE PLACED SUCH THAT THE INTERSECTION OF TENDONS LIE AT MID DEPTH.

ALL POST TENSIONING SHALL BE SECURED & SUPPORTED SUFFICIENTLY TO MAINTAIN THE TOLERANCES AS SPECIFIED BELOW DURING CONCRETE PLACEMENT.

TOLERANCES:

VERTICAL PLACEMENT: 1/2"
HORIZONTAL PLACEMENT: 4"

TENDON PLACING PROCEDURES TO BE FOLLOWED AS BELOW:

ANCHOR TENDON STARTING AT THE FIXED ENDS. REMOVE SHEATHING INSIDE THE EDGE FORM FLUSH WITH BACK SIDE OF ANCHORAGE AT THE STRESSING END.

FIX FIXED ENDS AS SHOWN IN THE DETAILS. PASS TENDONS THROUGH ANCHORAGES PAST THE FORM BY 12" FOR STRESSING AT THE STRESSING END.

PLACE PLASTIC CHAIRS AT THE INTERSECTION OF TENDONS.

TENDONS PROFILE SHALL BE MAINTAINED DURING CONCRETE PLACEMENT. ANY TENDON PLACED DURING CONCRETE PLACEMENT MUST BE RESTORED TO ITS ORIGINALLY PRESCRIBED LOCATION BEFORE CONCRETE SETS.

TENDON STRESSING:

THE STRESSING OPERATIONS SHALL BE UNDER THE IMMEDIATE CONTROL OF A PERSON EXPERIENCED IN POST TENSIONING OPERATIONS. HE SHALL MAINTAIN A CLOSE CHECK & RIGID CONTROL OF ALL OPERATIONS.

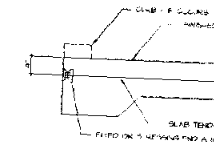
THE STRESSING MAY COMMENCE WHEN CONCRETE HAS REACHED A MINIMUM STRENGTH OF 2000 PSI.

ALL POST TENSIONING STEEL SHALL BE STRESSED BY MEANS OF HYDRAULIC JACKS, EQUIPPED WITH CALIBRATED HYDRAULIC PRESSURE GAUGES. EACH JACK SHALL BE ACCOMPANIED BY CALIBRATION SHEETS CORRELATING HYDRAULIC PRESSURE TO TENDON FORCE. IF DISCREPANCY BETWEEN MEASURED ELONGATION AND CALCULATED ELONGATION EXCEEDS [illegible], STRESSING SHALL BE STOPPED AND THE CAUSE OF DISCREPANCY SHALL BE DETERMINED & RESOLVED.

ALL ELONGATIONS & GAUGE PRESSURES SHALL BE RECORDED AND SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE TRANSFERRING.

TENDONS SHALL BE STRESSED TO 80% OF Fpu AND ANCHORED AT 70% OF Fpu. UNIT ELONGATION IS 0.0075/FT ± 10%.

PLACEMENT OF FIXED ENDS AND STRESSING ENDS MAY BE REVERSED AT THE OPTION OF THE CONTRACTOR.



ANCHOR LOCATION
SCALE: N.T.S.

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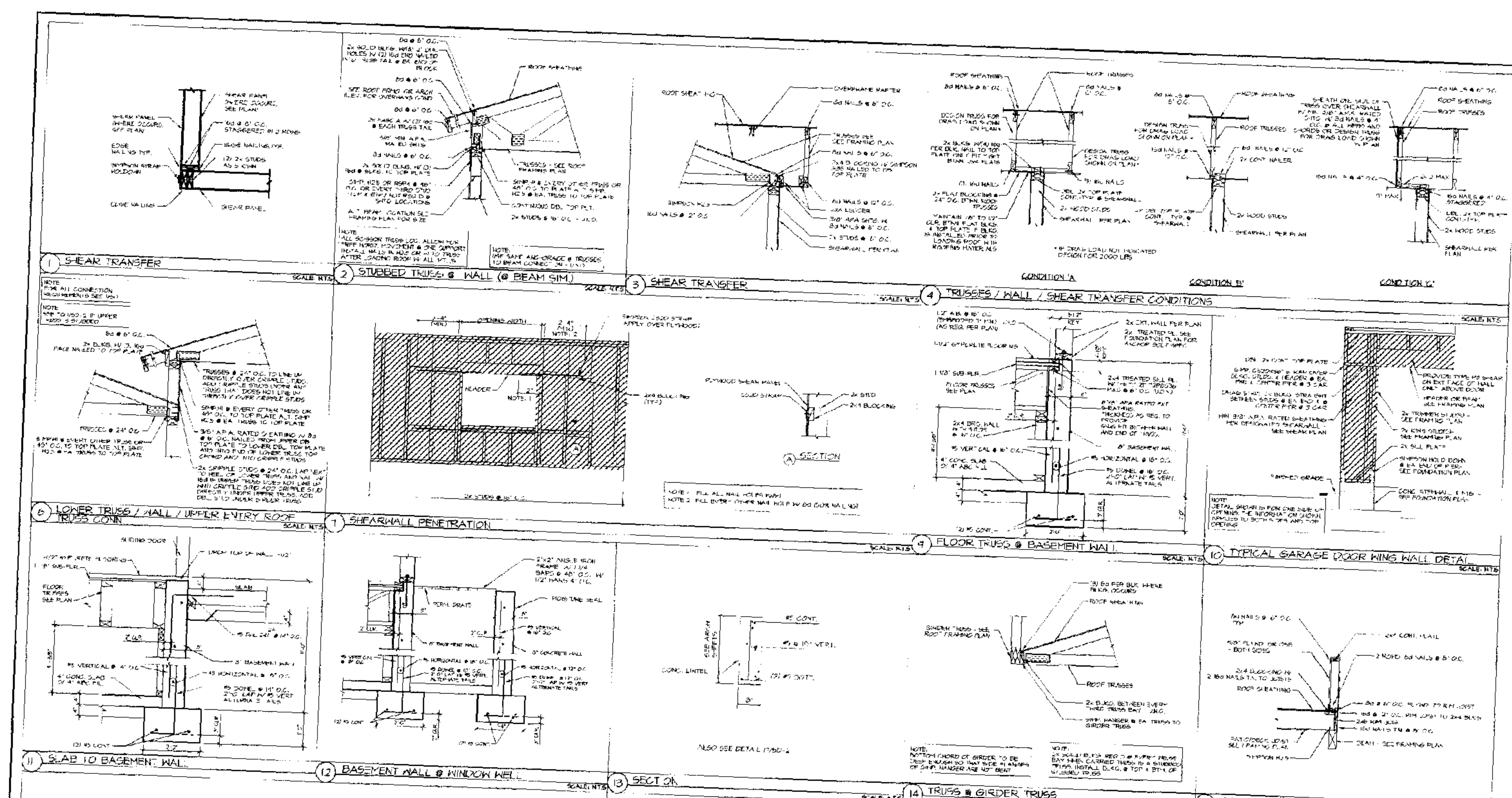

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