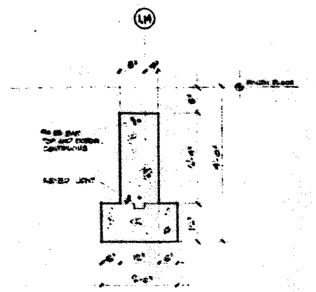
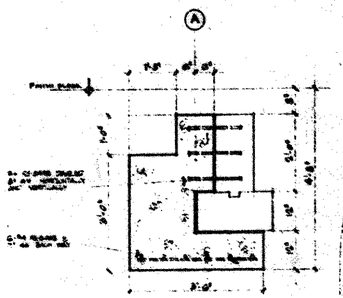
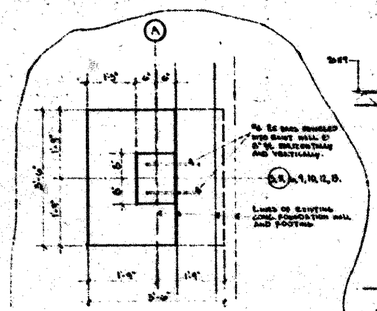


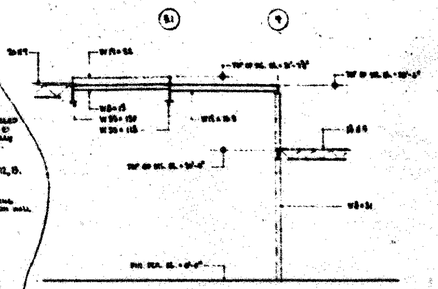
1 TYPICAL CONCRETE FOOTING SECTION. FOOTING — S1.55 — SCALE: 3/4" = 1'-0"



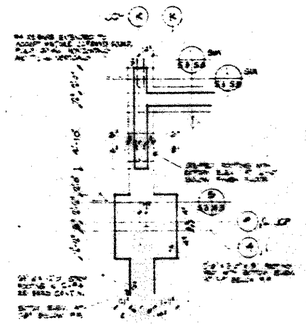
2 COLUMN PAD AT EXISTING WALL — S1.55 — SCALE: 3/4" = 1'-0"



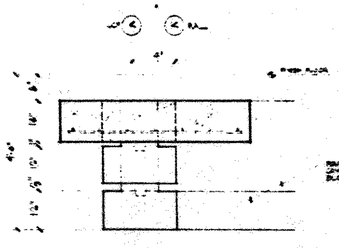
3 PLAN VIEW @ COLUMN PAD — S1.55 — SCALE: 1/2" = 1'-0"



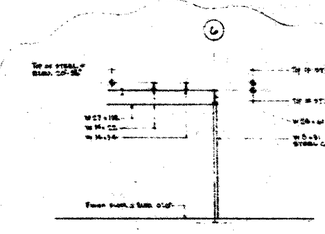
SECTION THRU STEEL — SCALE: 3/8" = 1'-0" — S1.55



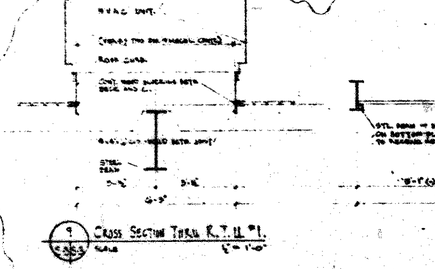
4 PLAN OF FOOTING ELEVATION TRANSITION — S1.55 — SCALE: 1/4" = 1'-0"



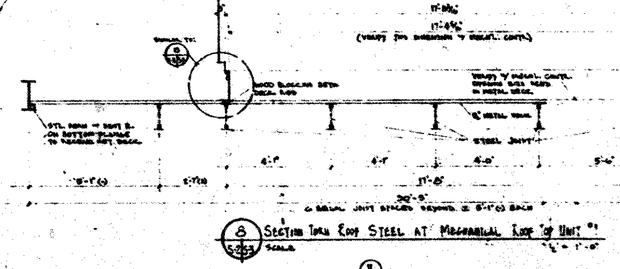
5 SECTION SHOWING STEPPED FOOTING — S-1.55 — SCALE: 3/4" = 1'-0"



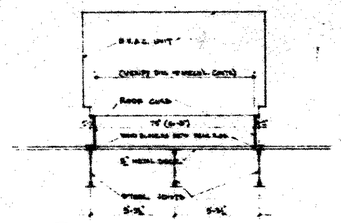
7 SECTION THRU STEEL — S-1.55 — SCALE: 3/4" = 1'-0"



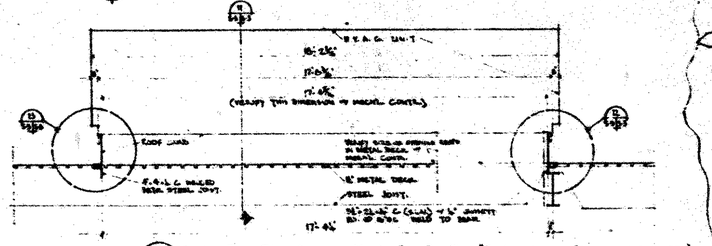
9 CROSS SECTION THRU R.T.U. #1 — S-1.55 — SCALE: 1/2" = 1'-0"



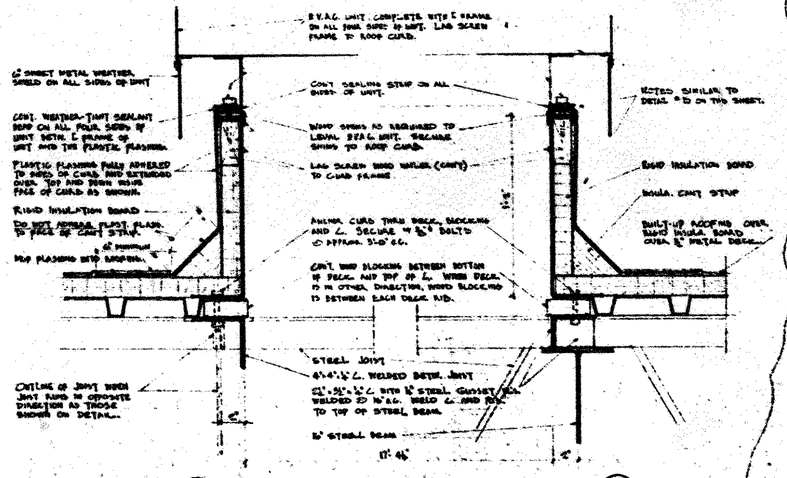
8 SECTION THRU ROOF STEEL AT MECHANICAL LOCK OF UNIT #1 — S-1.55 — SCALE: 1/2" = 1'-0"



11 CROSS SECTION THRU R.T.U. #3 — S-1.55 — SCALE: 1/2" = 1'-0"



10 SECTION THRU ROOF STEEL AT MECH. ROOF TOP UNIT #3. (SAME TOP UNIT AS SIMILAR, BUT TWO RAIL) — S-1.55 — SCALE: 1/2" = 1'-0"



15 TYPICAL ROOF CURB DETAILS 12 — S-1.55 — SCALE: 3/4" = 1'-0"

STRUCTURAL NOTES

1. TYPICAL STEEL DECKING TO BE 22 GAGE x 1½" WIDE RIB, 9 SPANS MIN. (6'-0" MAX. SINGLE SPAN).
2. ALL COLUMN BASE PLATES TO REST ON ½" THICK SETTING PLATE USING 9/16 Ø BASE PLATE. SET PL. ON ¾" GROUT.
3. ANCHOR BASE & SETTING PLATE W 14" # 04.75 TO FOUNDATION OR FOOTING.
4. ALL STRUCTURAL STEEL Fy = 36 K.S.I.
   LIVE LOAD : ROOF 52 P.S.F.
   SNOW 30 P.S.F. (45 P.S.F. ONE DAY DRIFT FROM ADJACT VERTICAL WALLS AND ENTIRE COURT ROOF AREA)
5. EXISTING BOTTOM CHORD OF ALL JOISTS TO BE CHK. LOADS FOR CONNECTIONS TO COL'S.
6. ANCHOR ALL BEAMS TO WALL W 3/4" Ø AND PAD PLATES. SA. JOIST W 10"-4"-14" & 16 PER ARCHITECTURAL DETAIL.
   MIN. EMBEDING
   JOIST - 8"
   BEAM - FULL PLATE WIDTH
7. ALL ELEVATIONS GIVEN WITH RESPECT TO FIRST FLOOR ASSUMED AS 0'-0".
8. TYPICAL COLUMN BASE PLATE ELEVATION 0'-1" BELOW FLR. (BOTT. OF S) ELEVATIONS OF BASE PLATES FOR GRIDLINES: 2.2, 2.D, 2.E, 2.G, 2.J, 2.L, 4.C, 4.E, 4.G, (EXPANSION 4.E & 4.G) TO BE 1'-0" BELOW FLOOR. (BOTT. OF S.)
9. SEE ARCH. DRAWINGS FOR MISC STEEL L's, PLATES, E's, BOTT S.'s, ETC.
10. LINTELS OVER ALL OPENINGS IN NON-BEARING MASONRY WALLS NOT OTHERWISE SHOWN SHALL BE L 3½" x 3½" x ¼" FOR 8" OF WALL THICKNESS OR L 3½" x 3½" x ⅜" FOR EACH 4" OF WALL THICKNESS FOR OPENINGS UP TO EXCEED 5'-0".
11. BEARING AND LINTELS BEARING ON MASONRY WALLS SHALL BE A MINIMUM OF 8" UNLESS OTHERWISE SHOWN. PROVIDE BEAM SEAT UNDER BEARING PLATES AND WALL ANCHORS AT MASONRY WALLS WHERE REQUIRED.

COLUMN BASE PLATE SCHEDULE

COLUMN SIZE	BASE PLATE SIZE
6.5 DIA STEEL PIPE	14" x 14" x 1"
10" Ø NOMINAL CONCRETE	18" x 18" x 1½"
W8 x 31	12" x 12" x ¾"
W8 x 48	12" x 12" x ¾"
W8 x 31 AND W 8x35	12" x 12" x 1"
W8 x 48	12" x 12" x 1¼"

FOUNDATION AND FOOTING NOTES

1. FOOTINGS TO BE CARRIED DOWN TO SOLID BEARING REGARDLESS OF THE DIMENSIONS SHOWN ON FOUNDATION DETAILS.
2. CONCRETE SLABS ON EARTH SHALL BE REINFORCED WITH 6"x6"-W2.9 x W2.9 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED.
3. ALL SLABS & GRADE SHALL HAVE CONSTRUCTION OR CONTROL JOINTS SET TO EXACTLY CORRECT ALL SAW CUT JOINTS SHALL BE TOOLED. CONSTRUCTION JOINTS TO BE LEVELED AND CONTROL JOINTS TO BE TROWELED, UNLESS OTHERWISE SPECIFIED.
4. ALL MATERIAL UNDER ALL SLABS AND FOOTINGS SHALL BE THOROUGHLY COMPACTED BEFORE PLACING CONCRETE (U.N.O.S.P.E.). CONTRACTOR TO VERIFY COMPACTION AND SOIL BEARING VALUE BEFORE PLACING CONCRETE.
5. PROVIDE ½" PREMOLDED INSULATION JOINT MATERIAL BETWEEN FLOOR SLABS AND FOUNDATION WALLS.
6. PROVIDE STRUCTURAL REINFORCING ON EACH SIDE OF OPENINGS IN CONCRETE FOUNDATION WALLS, INTERIOR WALLS AND FLOOR SLABS AS FOLLOWS: 1-#5 BAR FOR SLAB 4" OR WALL OR SLAB THICKNESS. BARS SHALL EXTEND 24" DIAMETERS BEYOND EACH SIDE OF OPENING.
7. LAP CONTINUOUS WALL REINFORCING 24 DIAMETERS UNLESS OTHERWISE NOTED. PROVIDE CORNER BAR FOR ALL HORIZONTAL WALL REINFORCING.
8. PROVIDE SOLID ASHLAR OR FILL CORE OF BLOCKS UNDER ALL BEAM BEARING POINTS DOWN TO UNDISTURBED FOUNDATION OR FOOTING.
9. NO CHASED, RUNGS, CONDUIT, OR TOOTHING OF BRICKWORK WALLS SHALL BE MADE IN MASONRY WALLS WITHIN 10" OF E OF BEAM BEARING.
10. ELECTRICAL, CONDUIT AND OTHER PIPES TO BE EMBEDDED IN STRUCTURAL CONCRETE FLOOR SLABS TO BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318-63 PROVISIONS 706.
11. COVER FOR CONCRETE REINFORCING STEEL IN ACCORDANCE WITH ACI 318-63 PROVISION 807.
12. ENGINEERING DATA:
    ALLOWABLE SOIL PRESSURE: 2,000 PSF
    CONCRETE REINFORCING:
    #3 BARS AND SMALLER — f'c = 3,000 PSI
    #4 BARS AND LARGER — f'c = 3,000 PSI
    WELDED WIRE FABRIC — f'c = 3,000 PSI

FOOTING PAD SCHEDULE

MARK	SIZE	THICKNESS	REQUIRED REINFORCEMENT
F-20	2'-0" x 2'-0"	12"	4-#5 BARS @ 9" CTR. EACH WAY
F-24	2'-4" x 2'-4"	12"	5-#5 BARS @ 9" CTR. EACH WAY
F-30	3'-0" x 3'-0"	12"	5-#5 BARS @ 12" CTR. EACH WAY
F-36	3'-6" x 3'-6"	12"	6-#5 BARS @ 12" CTR. EACH WAY
F-40	4'-0" x 4'-0"	12"	7-#5 BARS @ 12" CTR. EACH WAY
F-48	4'-0" x 4'-0"	16"	7-#6 BARS @ 12" CTR. EACH WAY
F-50	5'-0" x 5'-0"	16"	8-#6 BARS @ 12" CTR. EACH WAY
F-60	5'-0" x 5'-0"	18"	8-#7 BARS @ 12" CTR. EACH WAY
F-68	5'-8" x 5'-8"	18"	9-#7 BARS @ 12" CTR. EACH WAY
F-80	6'-8" x 6'-8"	20"	10-#7 BARS @ 12" CTR. EACH WAY

STEENWYK · THRALL ARCHITECTS
35 Lafayette N.E., Grand Rapids, Michigan 49503

CONCORD MALL
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FOUNDATION AND FRAMING DETAILS, NOTES, AND SCHEDULES

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