

UNIVERSITY OF HOUSTON HUMANITIES BUILDING CONTRACT "A"

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Supplements

Revisions

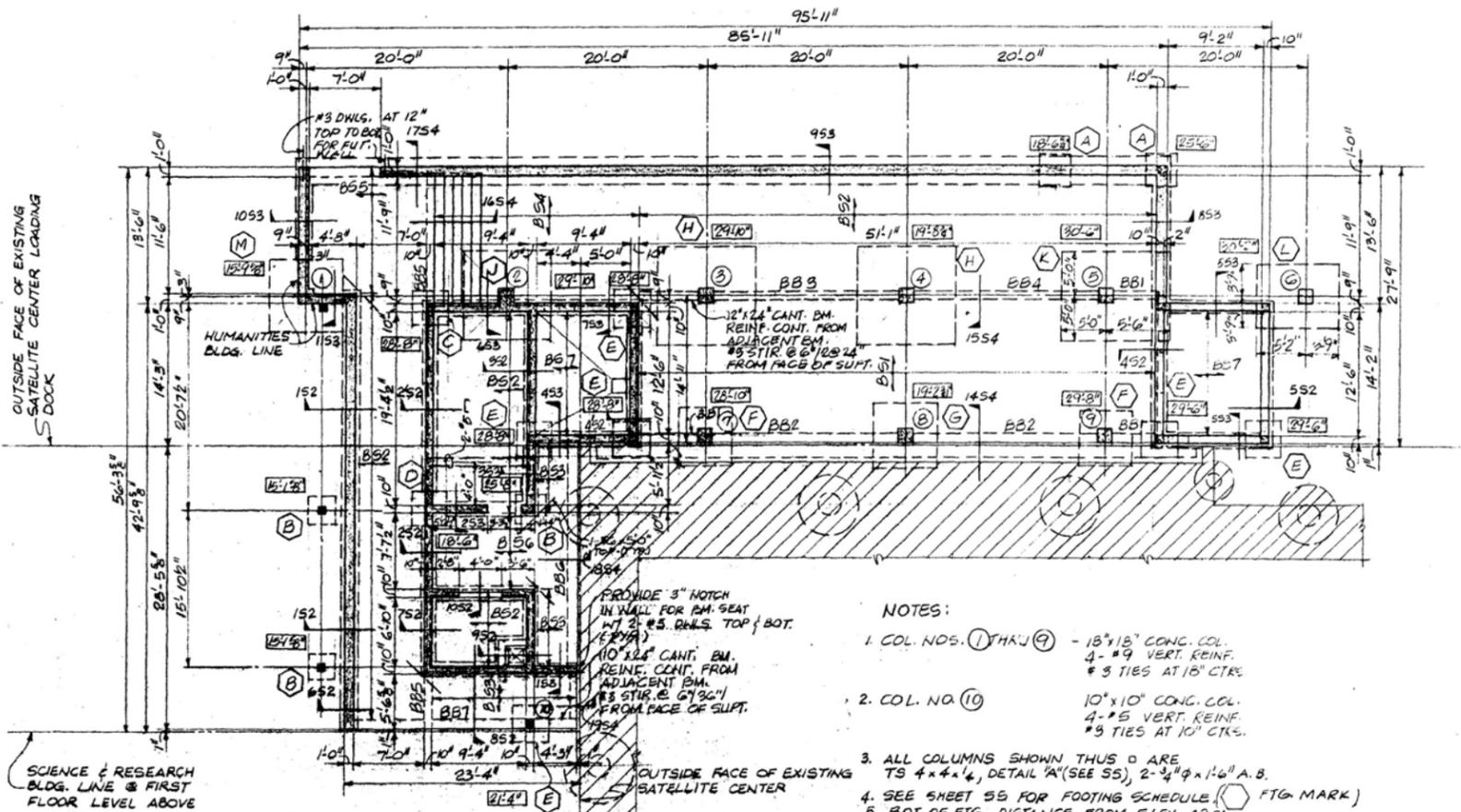
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FRAMING PLANS

JOB NO. 1299-01

Date NOV. 17, 1975

Sheet 5-1



BASEMENT FRAMING AND FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



GENERAL NOTES:

ALL CONCRETE SHALL TEST 3000 POUNDS PER SQUARE INCH AT 28 DAYS.

ALL REINFORCING STEEL SHALL BE GRADE 60 (A2 AND #3 BARS SHALL BE GRADE 40) AND SHALL CONFORM TO THE ASTM SPECIFICATION A615. DETAILING OF REINFORCING STEEL SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE DETAILING MANUAL, PROVIDE 1-1/2" TOP AND BOTTOM IN EXTERIOR FACE OF GRADE BEAMS AND SPANDELS. BEAMS AT CORNERS, PROVIDE STANDARD BAR CHAIRS AND SPACERS AT 5'-0" CTRS. FOR ALL SLABS AND BEAMS ABOVE GRADE, PROVIDE 3" x 6" x 20 GAUGE SHEET METAL BAR CHAIRS AT 4'-0" MAXIMUM CTRS. EACH WAY FOR ALL TOP REINFORCING FOR SLABS ON GRADE. DEPTH OF CHAIRS SHALL PROVIDE FOR 1" TOP COVER TO REINFORCING. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS AS FOLLOWS: BOTTOM BARS IN MEMBERS SUPPORTED BY COLUMNS OR FOOTINGS - 12" AT SUPPORTS ONLY; ALL OTHERS - 36 BAR DIAMETERS; HORIZONTAL WALL STEEL SHALL BE CONTINUOUS WITH 90° BENDS AND 12" RETURNS ALONG EACH WALL AT CORNERS; LAP COLUMN VERTICAL BARS 24 BAR DIAMETERS AT SPLICES, PROVIDE #3 AT 12" CTRS. TEMPERATURE BARS AT RIGHT ANGLES TO MAIN BARS FOR ALL SOLID SLABS ABOVE GRADE UNLESS OTHERWISE NOTED. REINFORCING STEEL COVERAGE SHALL BE AS FOLLOWS: COLUMNS - 1 1/2" GRADE BEAMS - 1 1/2" TOP, 3" BOTTOM; SLABS ABOVE GRADE - 3/4" BEAMS ABOVE GRADE - 1/2"; CONCRETE JOISTS - 1"; WALLS - 2"; FOOTINGS - 3". EXCAVATION FOR FOOTINGS SHALL BE NEAT. FOOTINGS SHALL BE POURED IMMEDIATELY AFTER EXCAVATION.

THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL CONSTRUCTION JOINTS SHALL BE MADE IN THE CENTER OF SPANS WITH VERTICAL BULKHEADS. THE LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE SPECIFIED BY THE ENGINEER.

FIRST FLOOR CONSTRUCTION SHALL BE COMPLETED BEFORE BACKFILLING AT BASEMENT WALLS IS BEGUN.

GRADE BEAMS AND STRUCTURAL BASEMENT FLOOR SLABS SHALL BE POURED ON ASPHALT AND WAX IMPREGNATED CORRUGATED FIBER CARTON FORMS (MAY MOORE BE MANUFACTURED BY THE LAWRENCE PAPER CO.). SLAB FORMS SHALL BE BEAM BOTTOM TYPE, COVER PREPARED GRADE WITH CONTINUOUS LAYER OF 6 MIL POLYETHYLENE SHEETING, INSTALL CARTON FORMS, THEN COVER THE FORMS WITH ANOTHER LAYER OF SHEETING. SLABS AND BEAM FORMS SHALL BE 4" DEEP. BEAM CARTON FORMS SHALL BE 2" LESS THAN BEAM WIDTH AND COVER UNDER BEAM.

ALL STRUCTURAL STEEL SHALL CONFORM TO THE AISC FIELD CONNECTIONS MANUAL, STRUCTURAL STEEL DETAILS AND CONNECTIONS SHALL CONFORM TO THE STANDARDS OF THE AISC. FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" ASTM A307 BOLTS UNLESS OTHERWISE SHOWN IN CONNECTIONS. BOLTS ARE IN SINGLE SHEAR. BOLTS SHALL BE PLACED IN TWO VERTICAL ROWS. CONNECTIONS SHALL BE BOLTED OR WELDED - SEE DETAILS. PROVIDE WEB CONNECTIONS FOR STEEL BEAMS AT COLUMNS UNLESS OTHERWISE NOTED. SPlicing OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE ENGINEER AS TO LOCATION AND TYPE OF SPLICE TO BE MADE. ANY MEMBER HAVING SPLICE NOT SHOWN AND DETAILED ON SHOP DRAWINGS WILL BE REJECTED. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE. WHEN CAMBER OF STEEL MEMBERS IS REQUIRED, THE GENERAL CONTRACTOR SHALL VERIFY THE REQUIRED CAMBER IN THE FIELD PRIOR TO ERECTION OF EACH MEMBER. STRUCTURAL STEEL SHALL BE PUNCHED FOR WOOD BLOCKING AND NAILERS IN ACCORDANCE WITH ARCHITECTURAL DETAILS.

WHERE BAR JOISTS ARE UTILIZED, AND COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A BAR JOIST SHALL BE FIELD-BOLTED AT COLUMNS (EACH END OF JOIST) TO PROVIDE LATERAL STABILITY DURING CONSTRUCTION.

OPEN WEB STEEL JOISTS SHALL CONFORM TO THE STANDARDS OF THE STEEL JOIST INSTITUTE. TOP CHORDS OF JOISTS SHALL BE ANGLES OR TRUS. BRIDGING SHALL BE HORIZONTAL RODS IN ACCORDANCE WITH PARAGRAPH 5.4 OF THE STEEL JOIST INSTITUTE SPECIFICATIONS. BRIDGING SHALL BE CONTINUOUS THROUGH STRUCTURAL STEEL PURLINS AND ANCHORED TO SPANDELS. PROVIDE CEILING EXTENSIONS AT CONTACT CEILINGS - SEE ARCHITECT'S DRAWINGS. JOISTS SHALL BE CAMBERED FOR DEAD LOAD. JOISTS SHALL BE WELDED TO STEEL BEAMS. PROVIDE FLAT BEARING FOR ALL JOISTS.

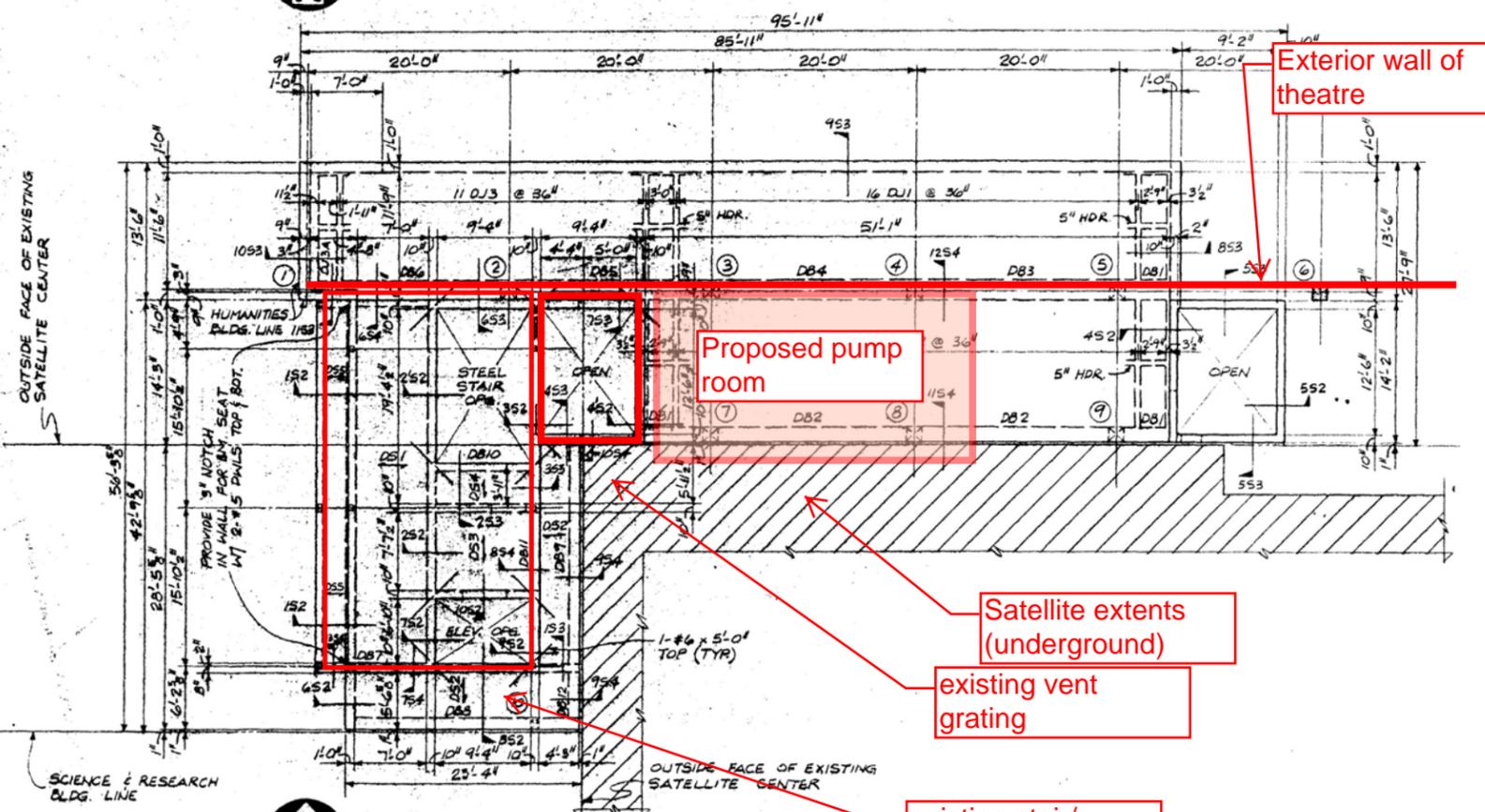
3/4" CONCRETE SLABS OVER CONCRETE JOISTS SHALL BE REINFORCED WITH 4" x 8", #12 x #12 WELDED WIRE MESH LAPPED ONE MESH AT ENDS AND SIDES. PROVIDE 5" WIDE HEADER JOISTS WHERE INDICATED ON PLAN. REINFORCE HEADER JOISTS WITH 1-#5 CONTINUOUS TOP AND BOTTOM UNLESS OTHERWISE NOTED. STEEL FORMS FOR CONCRETE JOISTS SHALL BE HEAVY GAUGE METAL CONTINUOUS FROM HEADER TO BEAM.

ROOF DECK OVER STEEL JOISTS SHALL BE 2-1/2" MINIMUM SLAB OF PORTLAND-CEMENT AGGREGATE CONCRETE CONSISTING OF 1-1/2" MIN., HAVING A MAXIMUM DENSITY OF 30 POUNDS PER CUBIC FOOT. LIGHTWEIGHT CONCRETE SHALL BE POURED ON GAMBRIEL-CORRUGATED-METAL-DECK WITH A MINIMUM SECTION MODULUS OF 0.032 IN.³. LAP CORRUGATED METAL ENDS 2" AND WELD ENDS AT EACH SIDE AND CORNER OF SHEET, WELD AT EACH SIDE OF SHEET FOR INTERMEDIATE SUPPORTS. PROVIDE VENT CLIPS AT MID SPAN AT EACH SIDE LAP OF CORRUGATED METAL DECK UNLESS DECK IS PREVENTED. REINFORCE SLAB WITH 4" x 8", #12 x #12 WELDED WIRE MESH OR KEYDECK, LAPPED ONE MESH AT ENDS AND SIDES.

PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR REQUIRED OPENINGS AS HE SHALL PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THESE DRAWINGS OR NOT, AND SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL CONTRACTOR. OPENINGS REQUIRING HEADING OF JOISTS SHALL BE REFERRED TO THE ENGINEER FOR FRAMING. NOMINAL PIPE SLEEVES THROUGH THE ROOF DECK WILL NOT REQUIRE FRAMING UNLESS THE OPENING EXCEEDS 10" IN DIAMETER.

SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS. THE CONTRACTOR SHALL COMPARE STRUCTURAL SECTIONS WITH ARCHITECTURAL SECTIONS AND REPORT ANY DISCREPANCY TO THE ARCHITECT PRIOR TO FABRICATING OR INSTALLING STRUCTURAL MEMBERS.

VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING BUILDING AT THE JOB SITE.



DOCK LEVEL FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"







Lyndell Finley
Worham Theatre

Communications
Bldg



