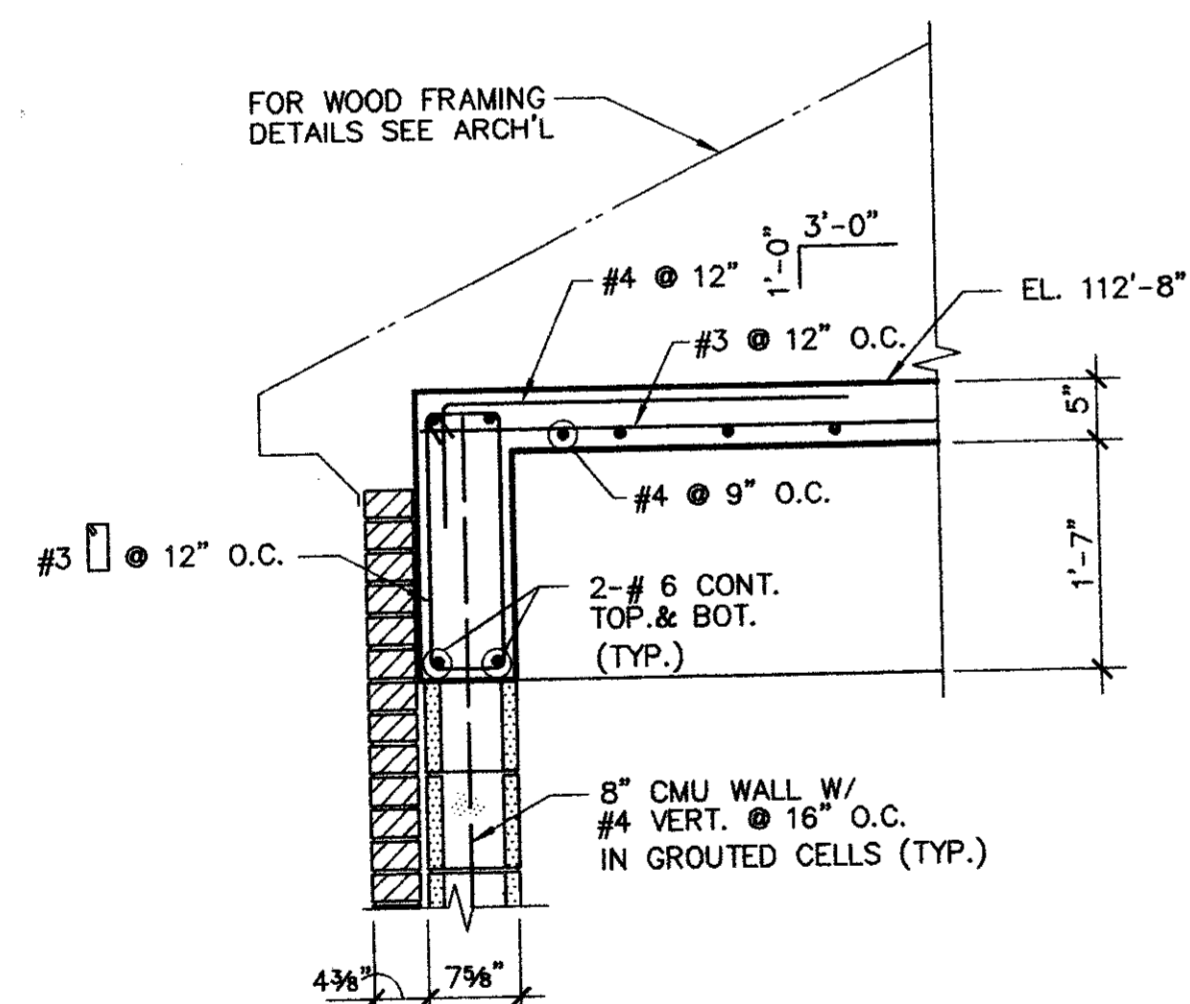
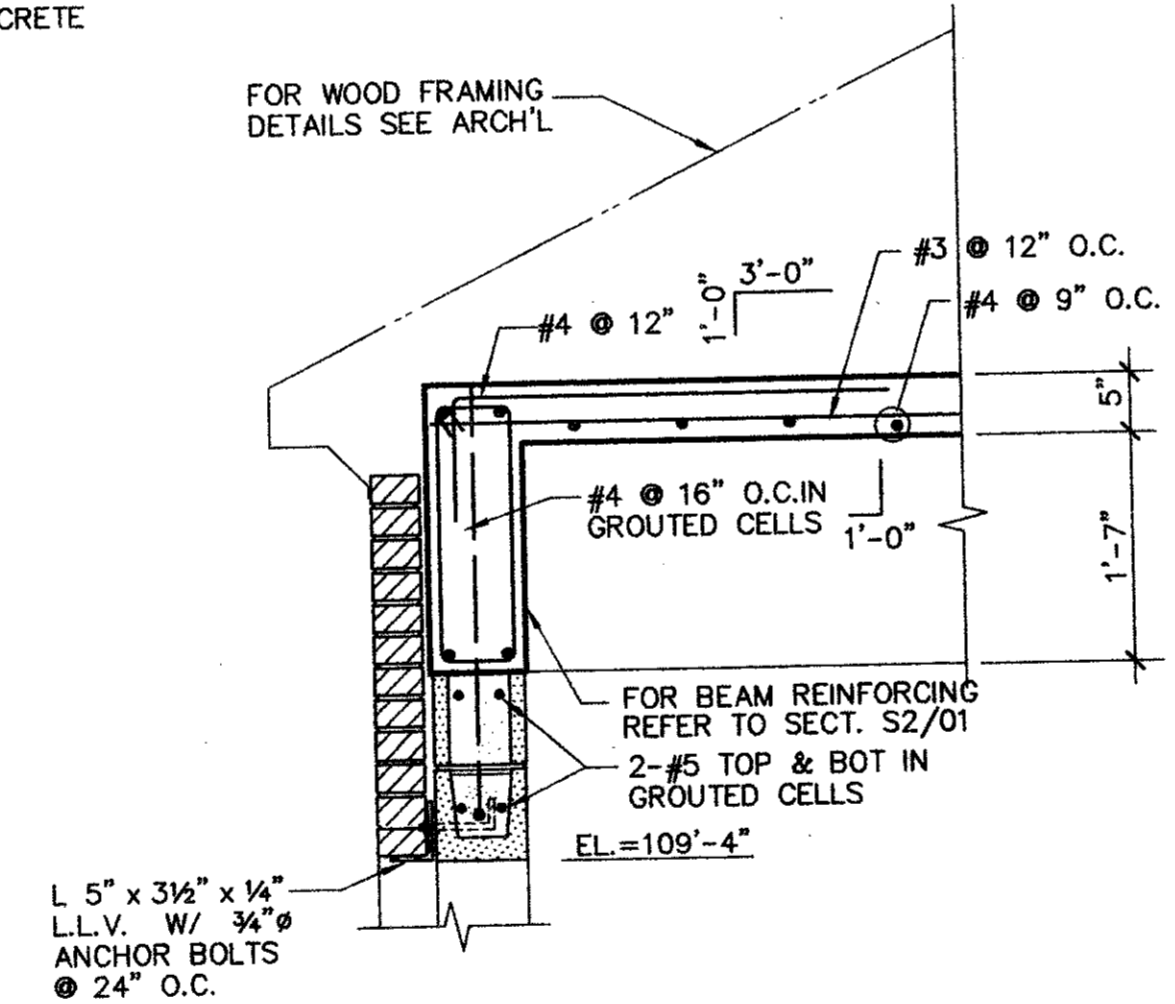


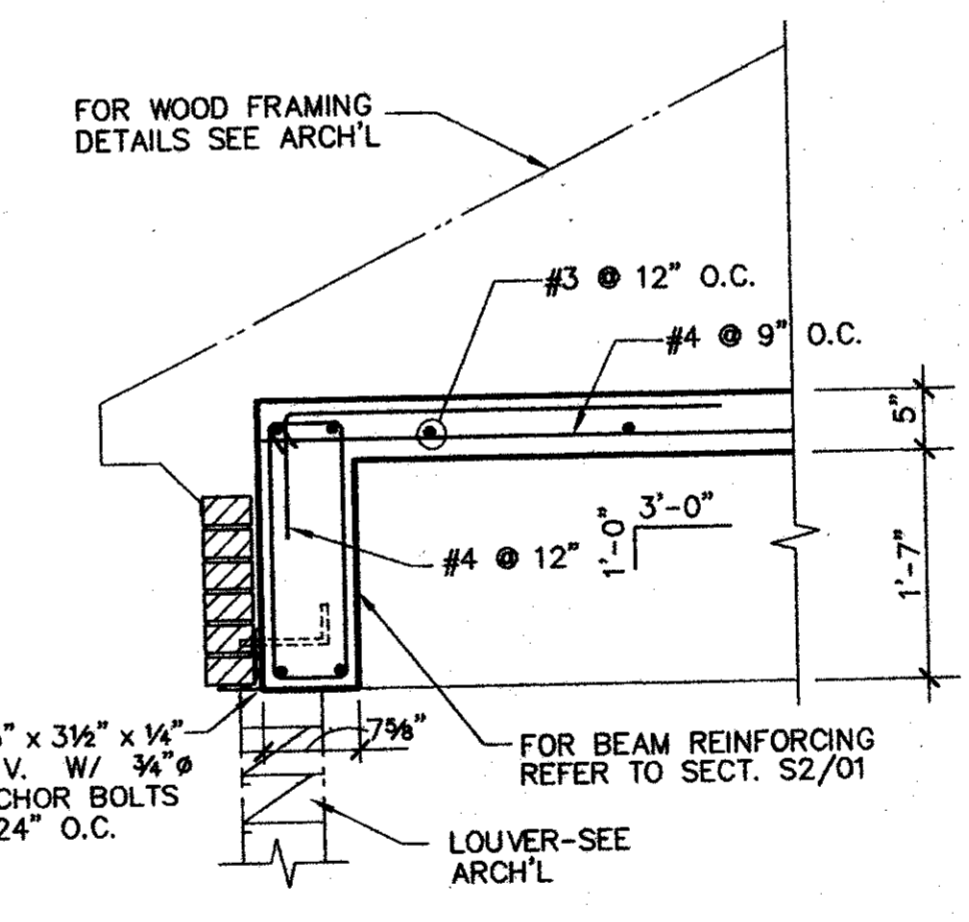
ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"
PLAN NORTH
T.O.C. = TOP OF CONCRETE



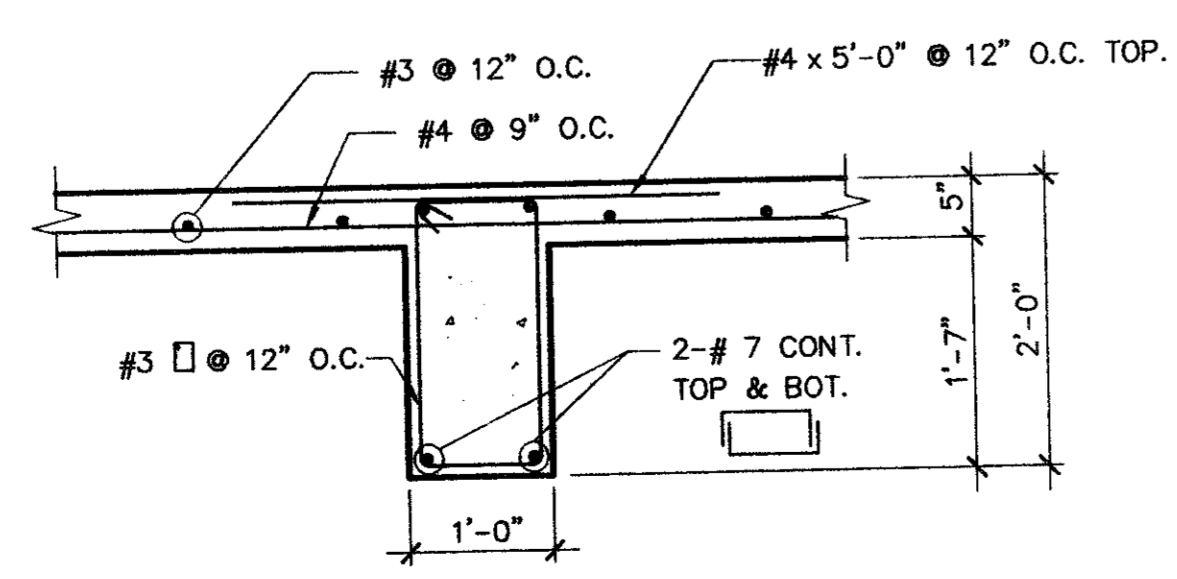
01 SECTION
SCALE: 3/4"=1'-0"



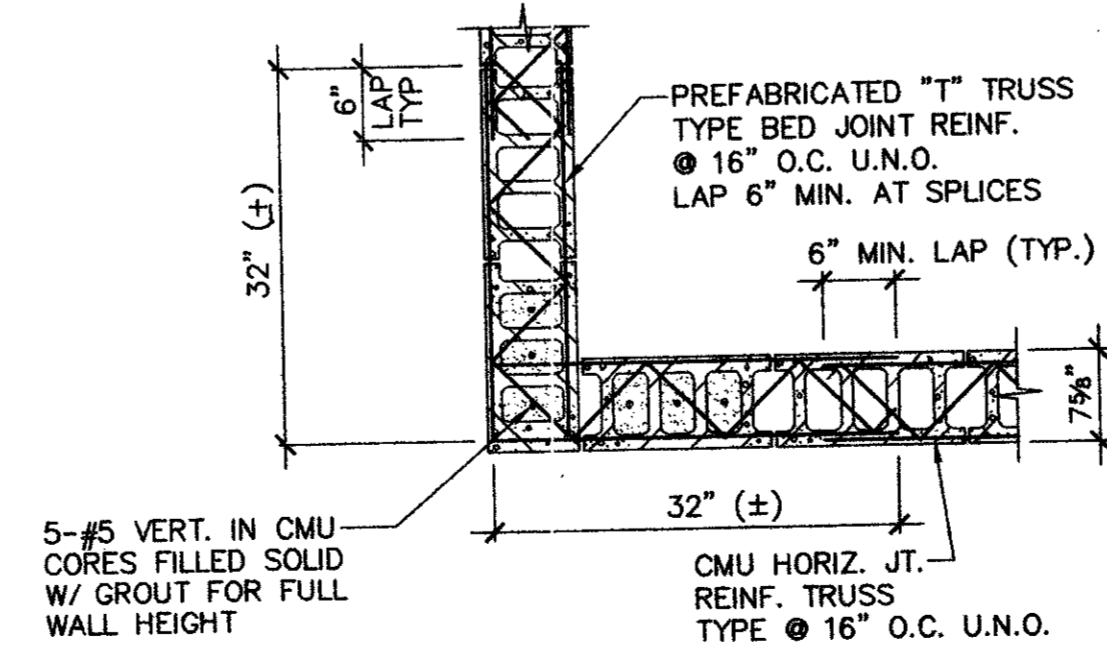
02 SECTION
SCALE: 3/4"=1'-0"



03 SECTION
SCALE: 3/4"=1'-0"



04 SECTION
SCALE: 3/4"=1'-0"



05 TYPICAL DETAIL
NO SCALE

GENERAL NOTES

DESIGN LOADS

- GRAVITY LOADS:
 - DESIGN UNIFORM LIVE LOADS ARE AS LISTED BELOW.
UNIFORM LIVE LOADS ROOF = 20 PSF
UNIFORM SUPERIMPOSED DEAD LOADS ROOF = 10 PSF WOOD FRAMING + 5 PSF ROOFING

- WIND LOADS
 - IN ACCORDANCE WITH UNIFORM BUILDING CODE, BASED ON A WIND SPEED OF 70 MPH AND EXPOSURE CLASS C.

FOUNDATION

- FOUNDATION DESIGN IS BASED ON THE SOILS REPORT PREPARED BY JOHN H. HAYNES & ASSOCIATES, INC., JOB NO. 2882, DATED APRIL 24, 1985.
- DESIGN END BEARING PRESSURE IS 50 KSF FOR DRILLED STRAIGHT-SHAFT PIERS WITH AT LEAST 7'-0" PENETRATION INTO FIRM GRAY LIMESTONE. DESIGN SKIN FRICTION IS 16 KSF FOR THE PORTION OF THE SHAFT EMBEDDED MORE THAN 4 FEET INTO FIRM GRAY LIMESTONE.
- CAST CONCRETE WITHIN 8 HOURS OF DRILLING PIER SHAFT INTO BEARING STRATUM, AND IN NO CASE SHALL THE PIER EXCAVATION REMAIN OPEN OVERNIGHT.
- SUBGRADE PREPARATION UNDER BUILDING SLAB ON GROUND:
 - REMOVE THE UPPERMOST 6" OF SOIL AND STOCKPILE FOR USE ONLY AS TOP SOIL FOR FINAL GRADING.
 - EXCAVATE AS REQUIRED FOR PLACEMENT OF SELECT FILL.
 - BACKFILL BENEATH THE BUILDING WITH 2 FEET OF SELECT FILL. THE SELECT FILL SHALL BE LAYER COMPACTED IN 8 INCH MAXIMUM LOOSE THICKNESS TO A DRY DENSITY OF NOT LESS THAN 95% OF STANDARD PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY. THE SOIL MOISTURE AT TIME OF COMPACTION SHALL BE WITHIN 3% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT. PLACE SELECT FILL AS SOON AS POSSIBLE OVER SUBGRADE TO LIMIT MOISTURE LOSS WITHIN THE UNDERLYING SOILS.
 - SELECT FILL SHALL BE A UNIFORMLY BLENDED CLAYEY SAND HAVING A LIQUID LIMIT LESS THAN 30 AND A PLASTICITY INDEX (PI) BETWEEN 4 AND 15.

- UNLESS SPECIFIED OTHERWISE, VAPOR BARRIER SHALL CONSIST PROVIDE 8 MIL POLYETHYLENE SHEET. TURN DOWN AT GRADE BEAMS AND PIERS. PROVIDE LAP AND SEAL AT ALL JOINTS. PATCH ALL TEARS PRIOR TO PLACING CONCRETE.
- PROVIDE 6" CARTON FORMS UNDER ALL GRADE BEAMS.
- ALL GRADE BEAMS SHALL BE FORMED ON BOTH SIDES. EARTH-FORMING IS NOT ACCEPTABLE.
- IT MAY BE NECESSARY TO USE TEMPORARY CASING WHILE DRILLING THE PIERS IF UNDERGROUND WATER IS ENCOUNTERED.
- IF TEMPORARY CASINGS ARE NECESSARY, EXTRACTION OF THE CASINGS SHALL BE DONE IN A MANNER THAT MAINTAINS A POSITIVE HEAD OF PLASTIC CONCRETE SO AS TO MINIMIZE THE POTENTIAL FOR INFILTRATION OF WATER SEEPAGE OR SLOUGHING SOILS.

REINFORCED CONCRETE

- ALL STRUCTURAL CONCRETE SHALL BE OF NORMAL WEIGHT AGGREGATE WITH SPECIFIED PROPERTIES AS FOLLOWS:

	28 DAY STRENGTH	SLUMP	MAX. AGGREGATE
SLABS ON GROUND	3000 P.S.I.	5"	1"
GRADE BEAMS	4000 P.S.I.	5"	1"
ROOF BEAMS AND SLAB	4000 P.S.I.	5"	3/4"
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60, U.N.O.
- REINFORCING STEEL SPECIFICALLY NOTED TO BE TO BE SHOP OR FIELD WELDED SHALL CONFORM TO ASTM A-706, GRADE 60. WELDING OF OTHER REINFORCING STEEL IS NOT PERMITTED.
- ALL REINFORCING SHALL LAP 36 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. HOOK CONTINUOUS BARS AT DISCONTINUOUS ENDS.
- DETAILING OF CONCRETE REINFORCING AND ACCESSORIES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI PUBLICATION 315.
- UNLESS NOTED OTHERWISE, CONCRETE PROTECTION FOR MAIN REINFORCING STEEL SHALL BE AS FOLLOWS:

	CENTER IN SLAB
SLABS ON GROUND	2" SIDES AND TOP, 3" BOTTOM
BEAMS AND WALLS ON EARTH	2" SIDES, TOP AND BOTTOM
SUSPENDED BEAMS	1" TOP, 3/4" BOTTOM
SUSPENDED SLABS	

HOLLOW CONCRETE MASONRY

- ALL HOLLOW CONCRETE BLOCK SHALL CONFORM WITH ASTM C90, TYPE N1, AND SHALL HAVE A COMPRESSIVE STRENGTH, BASED ON THE NET AREA AND AN AVERAGE OF 3 UNITS, OF 2000 PSI.
- MORTAR FOR REINFORCED HOLLOW CONCRETE MASONRY SHALL BE TYPE S.
- GROUT FOR REINFORCED HOLLOW CONCRETE MASONRY SHALL HAVE THE FOLLOWING PROPERTIES:
 - MINIMUM STRENGTH = 3000 PSI AT 28 DAYS
 - MAXIMUM COARSE AGGREGATE SIZE = 3/8"
 - SLUMP = 7", +/- 1".
- PLACE GROUT IN LIFTS OF 4'-0" OR LESS. GROUT ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED METALS. DO NOT USE MORTAR AS GROUT.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT AT EVERY SECOND BLOCK COURSE UNLESS NOTED OTHERWISE.
- PROVIDE 3-#5 VERTICALS IN GROUTED CELLS UNDER ALL CONCENTRATED LOADS.

P:\1998\98-104\STRUCT\98104S2.DWG / SC: 1/4"=1'-0" / FEB 11, 1998 / 3:39 PM

TOWN OF ADDISON, TEXAS

CELESTIAL ROAD PUMP STATION ADDITIONS

GENERATOR BUILDING

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: J.O.M.	PROJECT: 97-180	SHEET NO. S-2
DRAWN BY: J.O.M.	DATE: FEBRUARY, 1998	OF SHEETS

