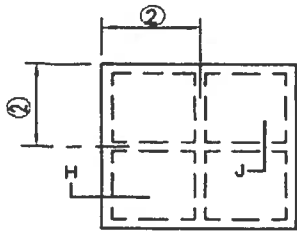
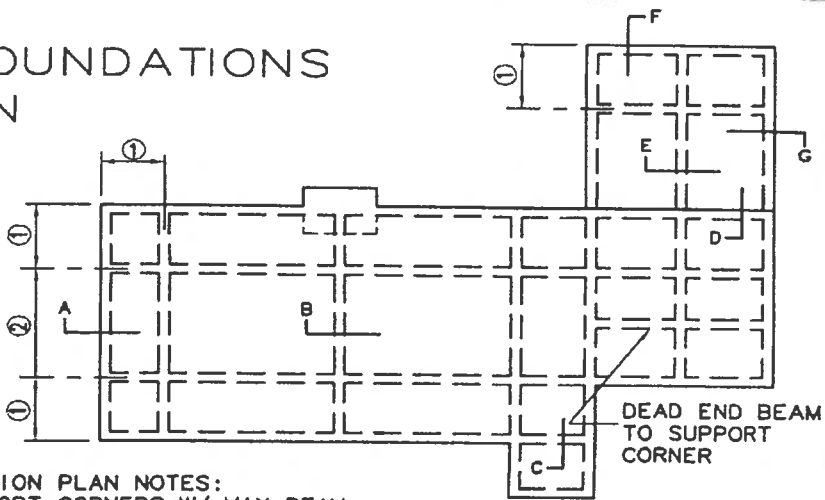


FIGURE 18-1-E

CONCRETE FOUNDATIONS
SAMPLE PLAN



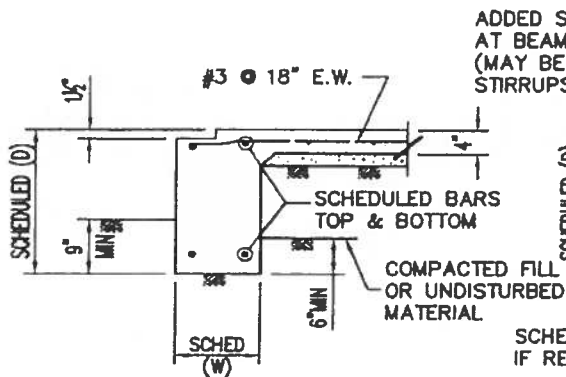
DETACHED



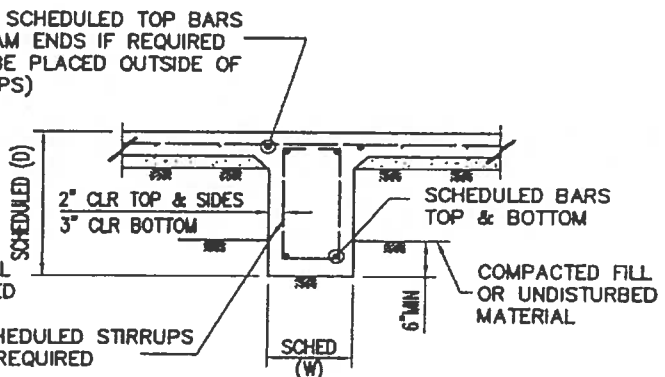
DEAD END BEAM
TO SUPPORT
CORNER

FOUNDATION PLAN
NTS

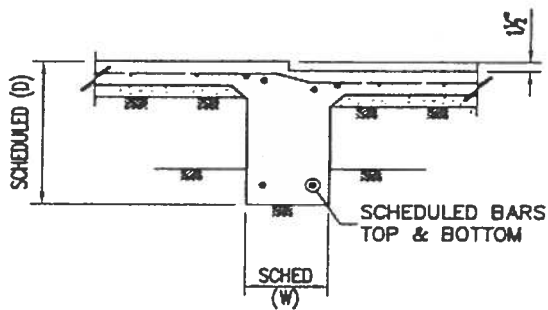
- FOUNDATION PLAN NOTES:
1. SUPPORT CORNERS W/ MAX BEAM SPACING OF 8'-0" IN EACH DIRECTION
 2. MAX BEAM SPACING TO BE 16'-0"



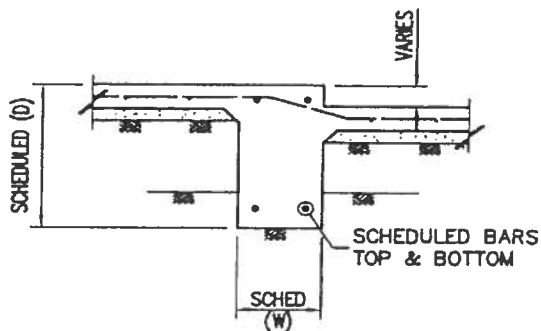
A — EXTERIOR BEAM



B — INTERIOR BEAM

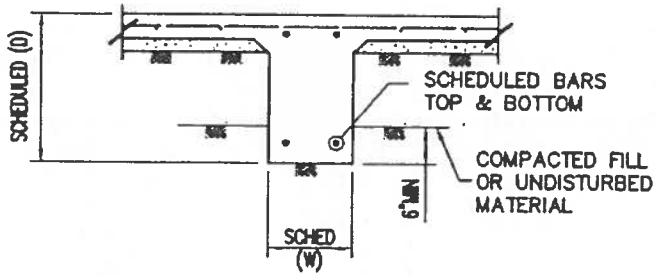


C — HOUSE PORCH BEAM

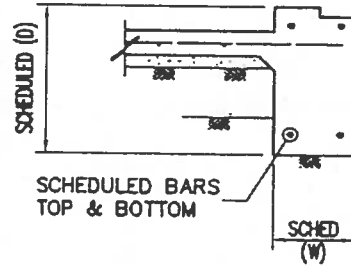


D — HOUSE GARAGE BEAM

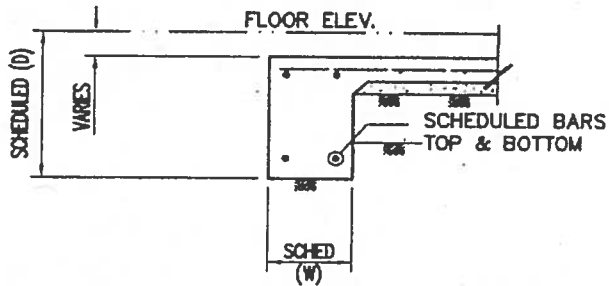
FOUNDATION DETAILS
NTS



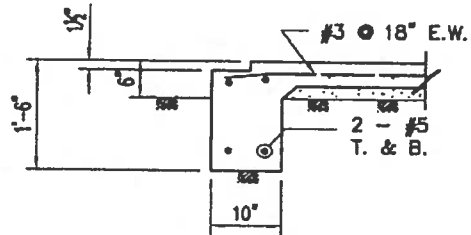
E — GARAGE INTERIOR BEAM



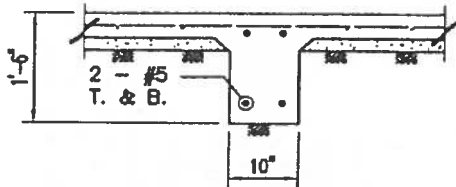
F — GARAGE EXTERIOR BEAM



G — GARAGE EXTERIOR BEAM AT ENTRANCE

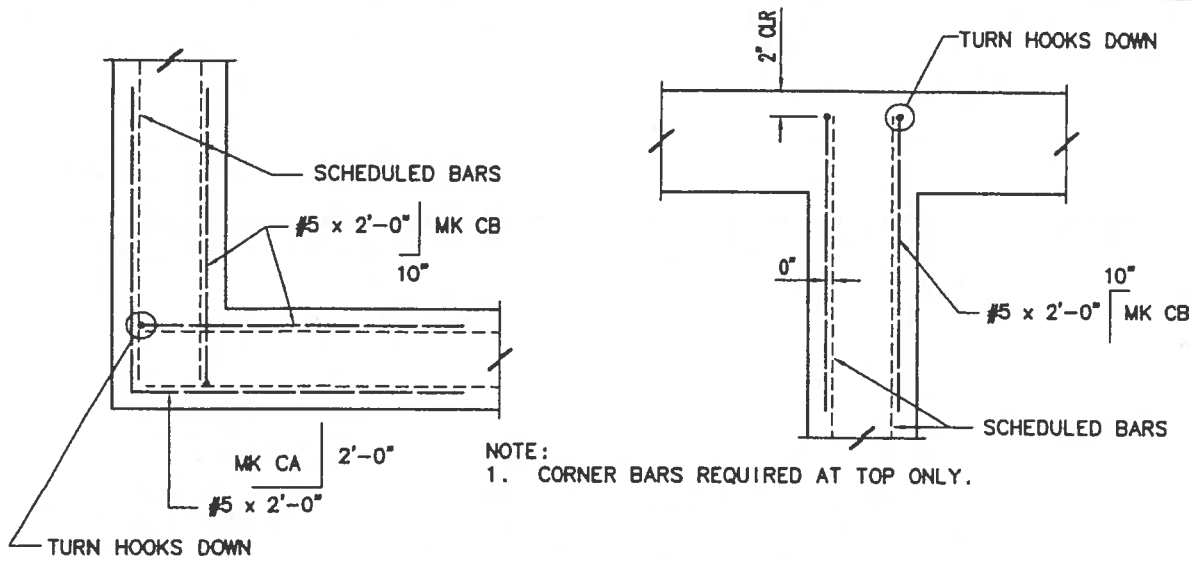


H — EXTERIOR BEAM DETACHED BLDG.



J — INTERIOR BEAM DETACHED BLDG.

GARAGE, PORCH, & DETACHED BLDG
FOUNDATION DETAILS



NOTE:
 1. CORNER BARS REQUIRED AT TOP ONLY.

TYPICAL CORNER BARS

FOUNDATION CORNER BARS
 N.T.S.

SINGLE STORY BEAM SCHEDULE								
PLASTICITY INDICES (PI)	EXTERIOR BEAMS			INTERIOR BEAMS				
	BEAM SIZE W X D	NO	SIZE & LOCN	BEAM SIZE W X D	NO	SIZE & LOCN	ADDED TOP EACH END	STIRRUPS EACH END
25 OR LESS	10 x 24	2 2	#5T #5B	10 x 24	2 2	#5T #5B	NOT REQUIRED	NOT REQUIRED
26 TO 35	10 x 26	2 2	#6T #6B	10 x 26	2 2	#6T #6B	1 - #6 MK A	NOT REQUIRED
36 TO 40	12 x 28	2 2	#6T #6B	12 x 28	2 2	#6T #6B	1 - #7 MK B	7 - #3 @ 12"



TWO STORY BEAM SCHEDULE								
PLASTICITY INDICES (PI)	EXTERIOR BEAMS			INTERIOR BEAMS				
	BEAM SIZE W X D	NO	SIZE & LOCN	BEAM SIZE W X D	NO	SIZE & LOCN	ADDED TOP EACH END	STIRRUPS EACH END
25 OR LESS	10 x 28	2 2	#6T #6B	10 x 28	2 2	#6T #6B	1 - #6 MK C	4 - #3 @ 12"
26 TO 30	12 x 28	2 2	#6T #6B	12 x 28	2 2	#6T #6B	2 - #7 MK D	5 - #3 @ 12"
31 TO 35	12 x 30	2 2	#7T #7B	12 x 30	2 2	#7T #7B	2 - #7 MK E	6 - #3 @ 12"
36 TO 40	12 x 34	2 2	#7T #7B	12 x 34	2 2	#7T #7B	2 - #7 MK F	7 - #3 @ 12"



FOUNDATION BEAM SCHEDULES

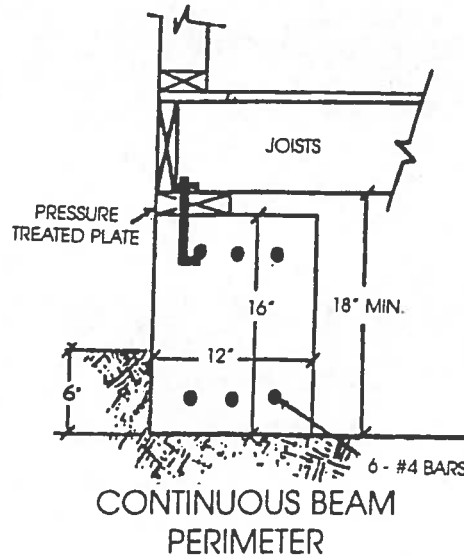
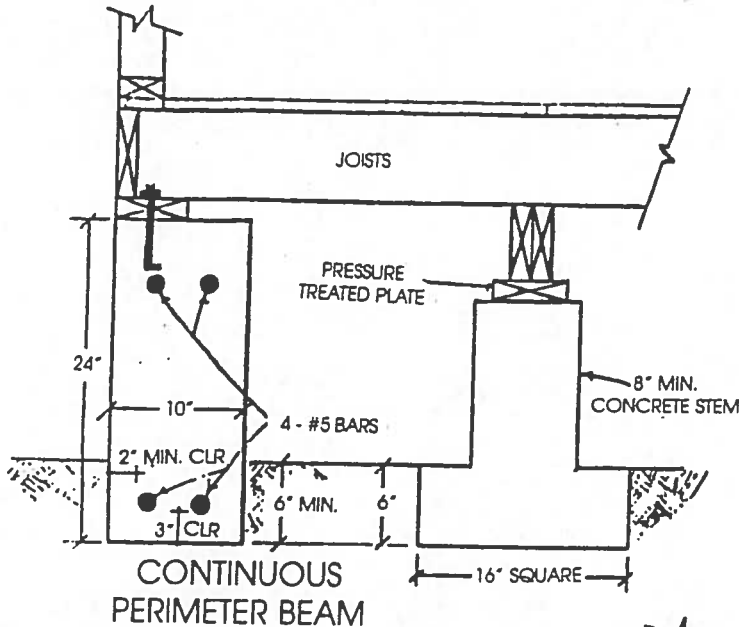
General Notes:

- Use fill with P.I. (Plasticity Index) not to exceed 20: except where water table is encountered, use gravel, crushed stone or comparable material.
- Exterior and interior beams shall be a minimum depth below natural grade of 6". (Exception: when the exterior are placed on a compacted fill of 90% standard proctor density beams shall not be required to extend below natural grade, but shall be required to extend below finished grade a minimum of 6" into the compacted fill.) Exterior beams shall have a minimum of 9" of cover from the bottom of the beam. (See Detail A)
- All concrete shall be of a design mix to have a 28-day compressive strength of 3,000 p.s.i.
- Dead end beams not allowed except for corner support beams. Corner support beams shall pass through one intersecting beam and may dead end after connecting with the next intersecting beam. (See Detail on Concrete Foundation Sample Plan)
- All beam and slab reinforcing shall maintain minimum clearance of 2" from exterior forms on sides.
- All beam and slab reinforcing shall maintain minimum clearance of 3" from bottom of beams.
- Beam reinforcing shall be tied and supported every 4' - 0" minimum.
- Top corner reinforcing steel (bars) required at all perimeter beams. (See Typical Corner Bar Detail)
- LAP splices shall be in accordance with the following:
 - LAP #3 reinforcing steel (3/8" diameter bars) minimum 15"
 - LAP #4 reinforcing steel (1/2" diameter bars) minimum 20"
 - LAP #5 reinforcing steel (5/8" diameter bars) minimum 25"
 - LAP #6 reinforcing steel (3/4" diameter bars) minimum 30"
 - LAP #7 reinforcing steel (7/8" diameter bars) minimum 35"
- Anchor bolts – spacing 6' 0" O.C. (On Center) maximum. 12" from corners. 1/2" X 8" minimum size bolts.
- Provide chairs or other suitable supports for slab and beam reinforcing.
- All reinforcing except #3 reinforcing steel shall conform to ASTM grade 60-type steel. #3 reinforcing steel may be grade 40-type steel.
- Minimum slab thickness to be 4" and minimum reinforcing to be #3 bars at 18" B.W. (Both Ways)
- Beam sizes, spacing and reinforcing steel (bars) shall conform to the beam schedule. P.I (Plasticity Index) shall be determined for each proposed building site in accordance with the United States Department of Agriculture Soil Conservation Services Soil Survey of Taylor County, Texas, 1976. Exception: One soil test per 2500 square foot of foundation footprint shall be collected and tested by an approved testing agency. Spacing of multiple tests shall be in accordance with accepted engineering practices. Foundations for structures resting on soils with a P.I. greater than 40 shall be designed by an engineer licensed by the State of Texas.
- A foundation plan shall be required for all construction.



Pier and Beam Foundation

B-6



A. Bottom of floor joists must be 18" above grade minimum or be pressure-treated.

Bottom of Stringers must be 12" above grade minimum or be pressure-treated.

B. All anchor bolts must be placed in concrete or grouted in blocks. Minimum spacing 18" from ends and 6' on center on all exterior walls. Tie-down anchors may be grouted in same cells as anchor bolts.

C. All beam steel tied and supported every 4' with #3 bars.

D. All wood in contact with concrete or masonry must be pressure-treated or separated by metal shield.



City of Abilene
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