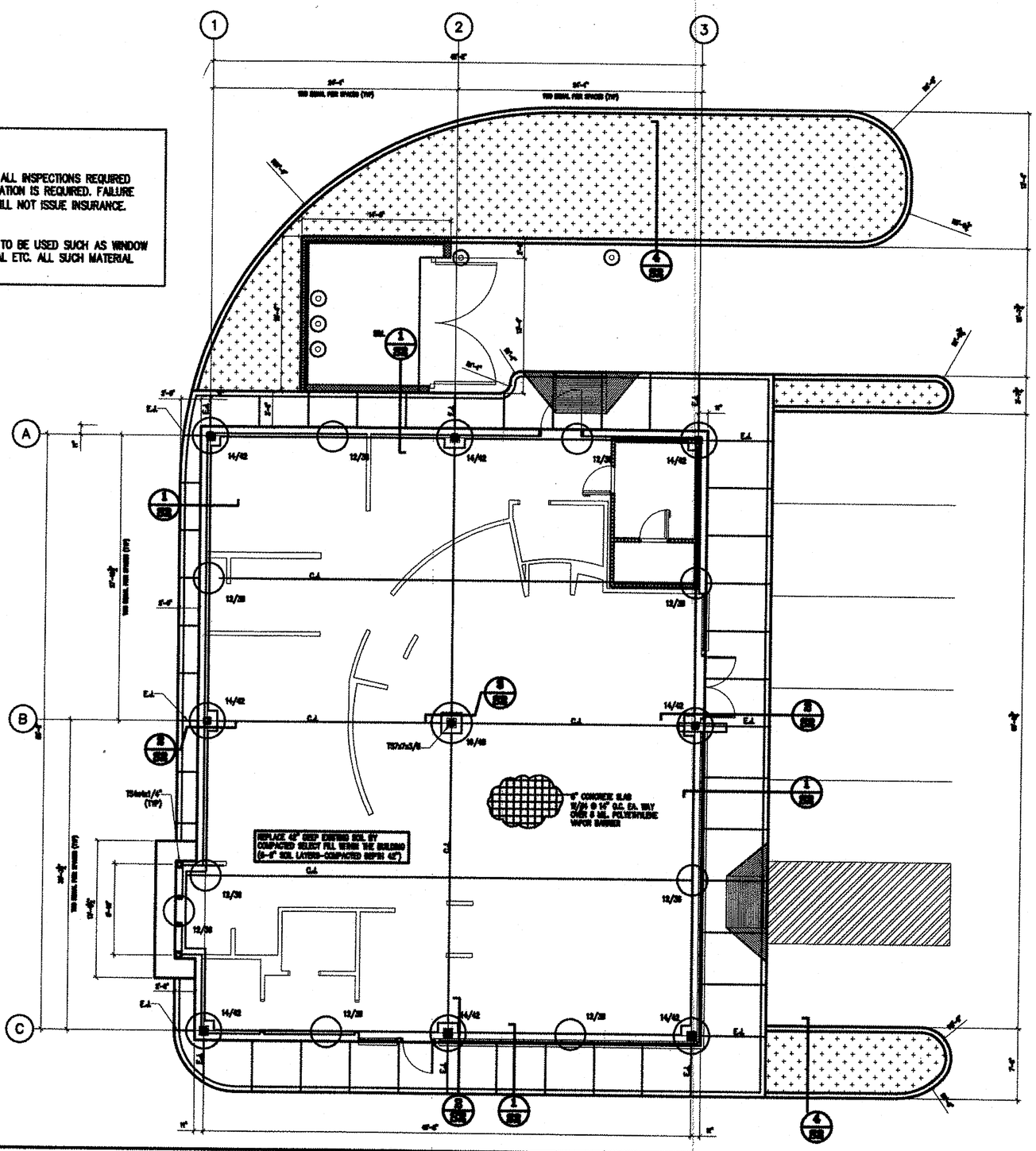
TDI CERTIFICATION:

1. OWNER / CONTRACTOR TO HIRE A TDI INSPECTOR FOR ALL INSPECTIONS REQUIRED PRIOR TO COMMENCE OF CONSTRUCTION IF TDI CERTIFICATION IS REQUIRED. FAILURE TO DO SO, TDI (TEXAS DEPARTMENT OF INSURANCE) WILL NOT ISSUE INSURANCE. CONTACT TDI @ 512-322-2203 FOR INFORMATION.

2. REFER TO TDI MANUAL/ARCH. DWG. FOR TDI MATERIAL TO BE USED SUCH AS WINDOW GLASS, FRAMES OF WINDOWS & DOOR, ROOFING MATERIAL ETC. ALL SUCH MATERIAL MUST BE PURCHASED FROM TDI APPROVED VENDERS.



FOUNDATION PLAN
SCALE: 3/16"= 1'-0"

PLAN NOTES:

1. REFER TO BUILDING SUPPLIER'S DRAWINGS FOR ANCHOR BOLT SETTING PLAN & LOCATIONS.
2. ALL ANCHORS SHALL BE 3/4" ø ANCHORS BOLTS WITH MIN. 21" EMBEDMENT. SEE DRAWING S2 FOR ALL ANCHOR BOLT SIZE & LOCATION.
3. ALL ANCHORS SHALL BE IN PLACE PRIOR TO CONCRETE POUR.
4. ALL COLUMN AND BASE PLATES SHALL BE BY BUILDING SUPPLIERS.
5. REPLACE EXISTING SOIL WITHIN BUILDING AS RECOMMENDED BY GEOTECHNICAL REPORT.
6. SITE SHOULD BE GRADED TO SHED ALL RAIN WATER AWAY FROM STRUCTURE. NO WATER POND ALLOWED AROUND BUILDING.
7. SOIL REPORT NO. 010-173, DATED MAY 21, 2010 BY A&M SOIL TESTING, HOUSTON, TEXAS, IS A PART OF THE CONSTRUCTION DOCUMENTS. IT IS CONTRACTOR'S RESPONSIBILITY TO REVIEW THIS REPORT FOR SITE PREPARATION AND DRILLED SHAFTS. IN CASE SAND IS ENCOUNTERED AT SITE, CASING MUST BE USED FOR DRILLED SHAFTS INSTALLATION.
8. C.J. ON PLAN INDICATES CONTROL JOINT.
9. CONTRACTOR TO CHECK FOR UNDERGROUND UTILITIES BEFORE DIGGING OR DRILLING FOR PIERS.
10. REFER TO WAREHOUSE STEEL BUILDING DRAWINGS FOR ANCHOR BOLT SETTING PLAN & BASE PLATES.
11. ALL COLUMNS ARE 12"x12"x5/8" U.N.O.

⊙ FOR DIMENSION REFER TO ARCH. DWG.

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ISSUE RECORD	
DATE	ISSUED FOR
07/19/10	CLIENT REVIEW
10/22/10	REVISION - 1 / PERMIT
	CONSTRUCTION

12/15/10
STATE OF TEXAS
M. W. MIRZA
84151
LICENSED
PROFESSIONAL ENGINEER

PE
PARAMOUNT ENGINEERING LLC
6565 HILLCROFT, SUITE 201
HOUSTON, TX 77081
TEL. : (713) 272-7104
FAX : (713) 660-4744
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DRAWN BY: K.S | CHECKED BY: M.M

PROJ. NO.: PE10-157

SHEET: S1

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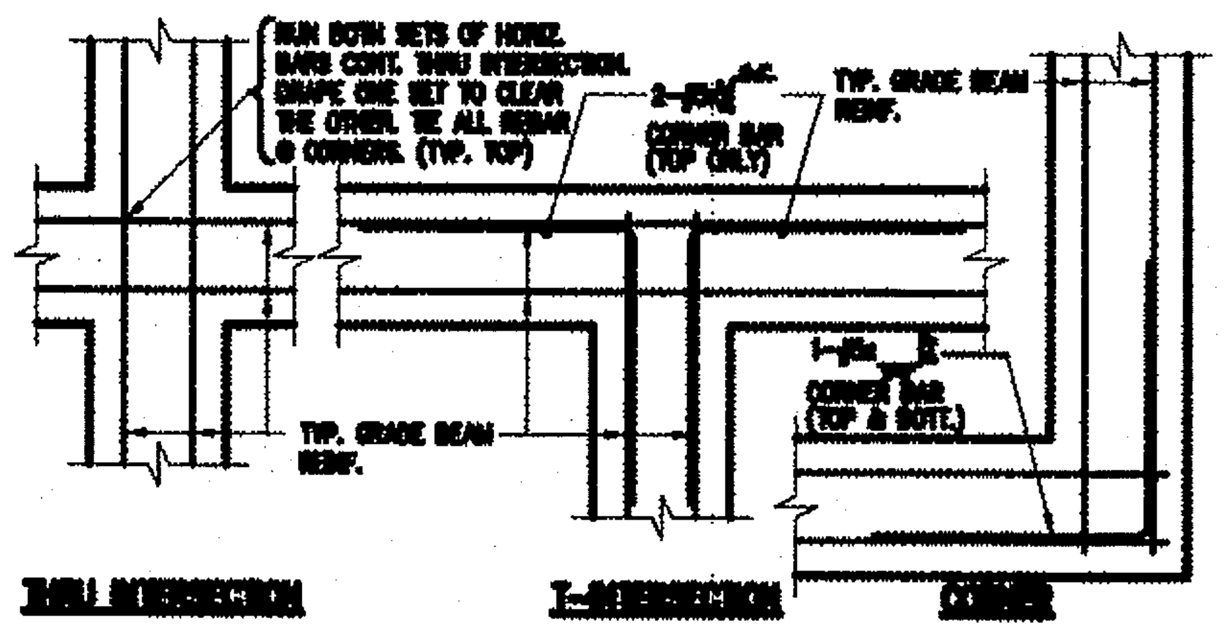
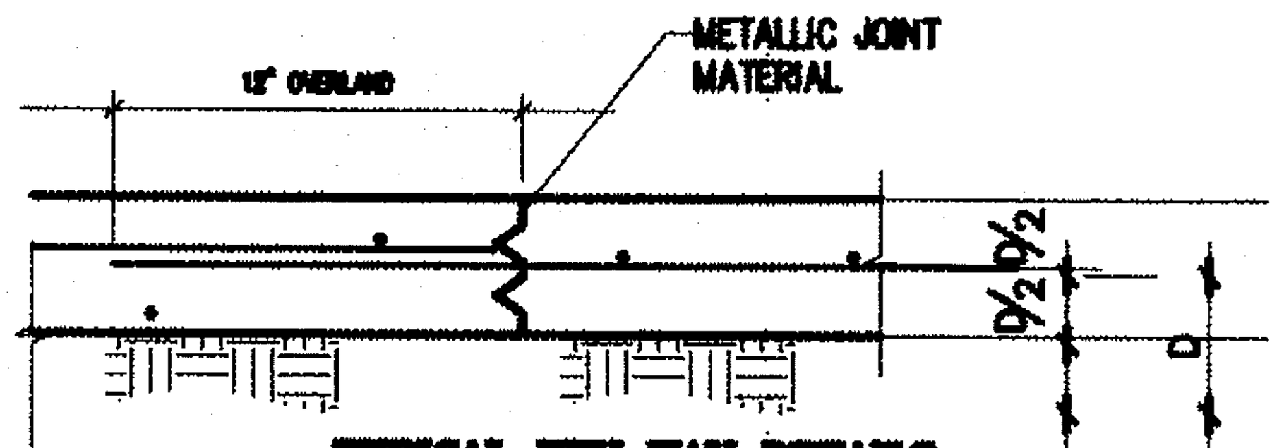
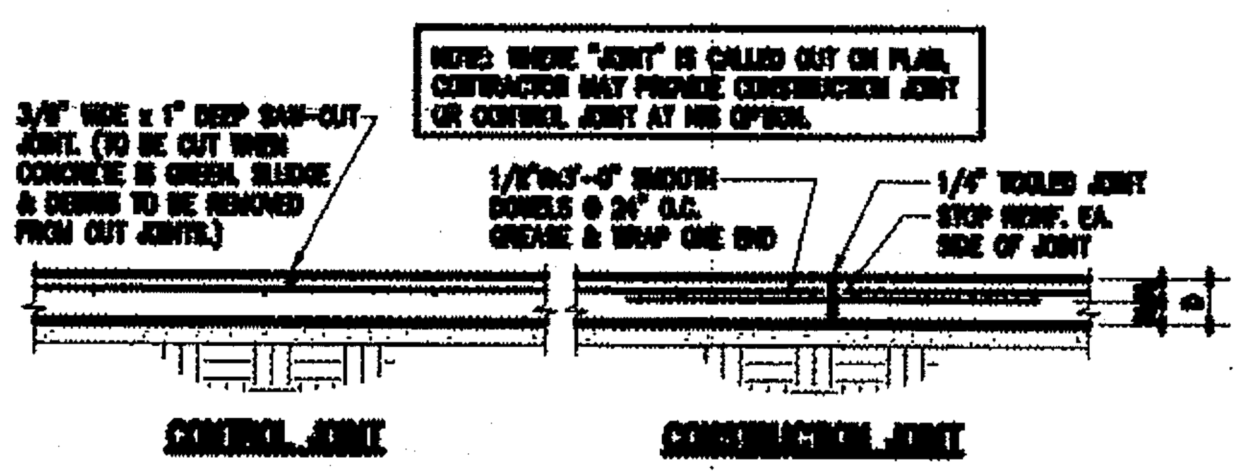


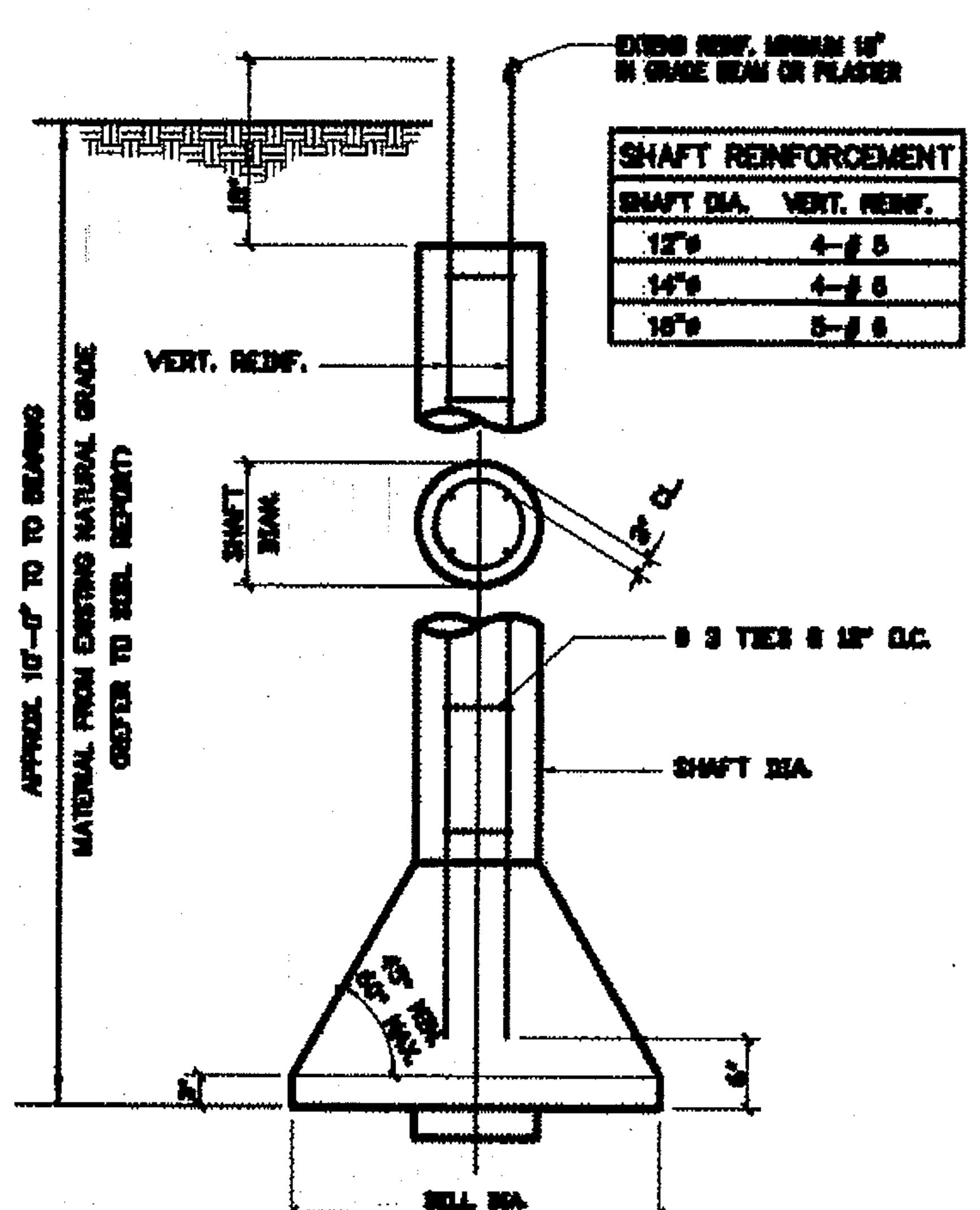
TYPICAL REINFORCEMENT DETAILS @ GRADE BEAM INTERSECTIONS



TYPICAL KEY WAY DETAILS
SCALE: NOT TO BE SCALE



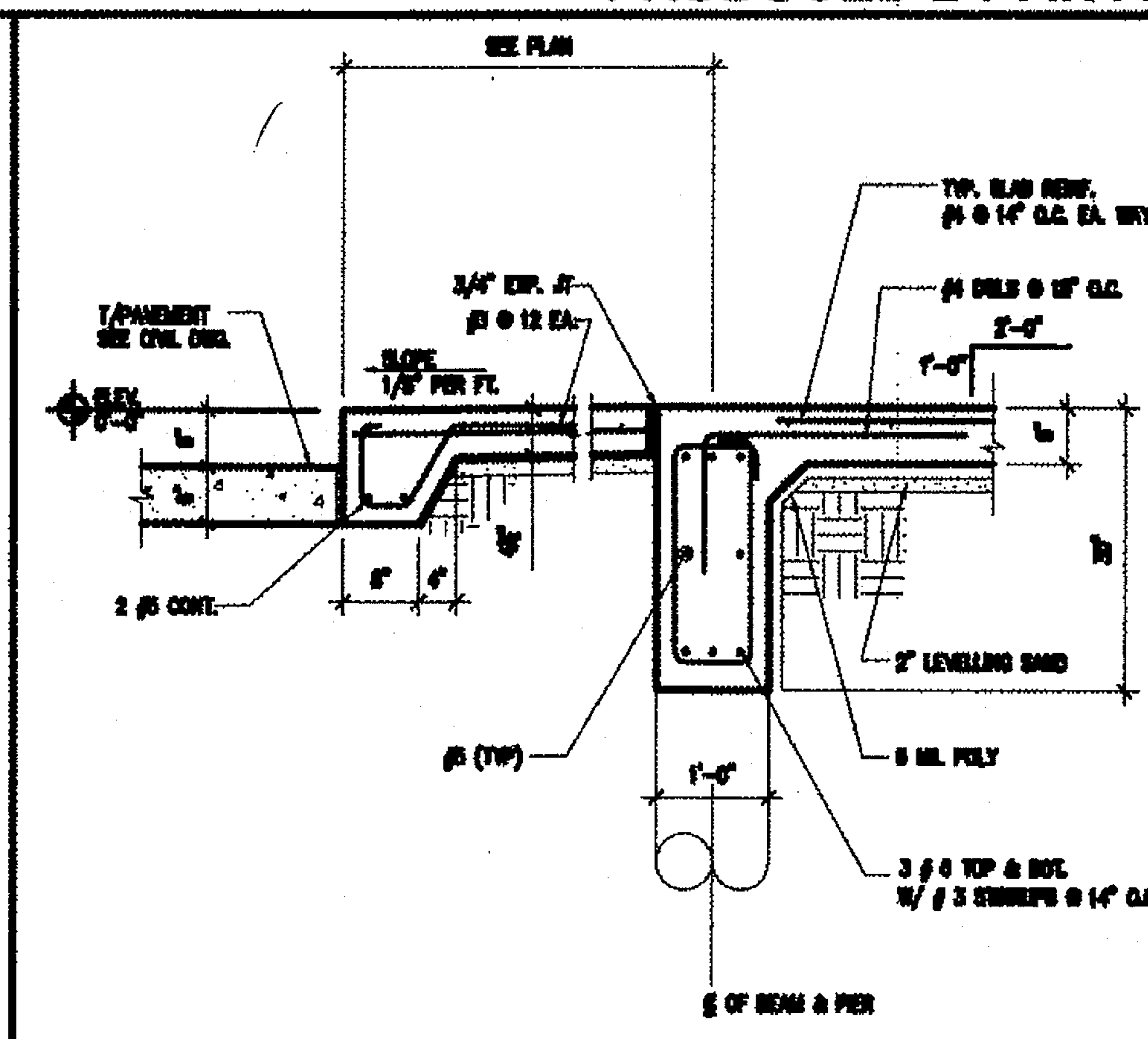
TYPICAL SLAB JOINT DETAILS



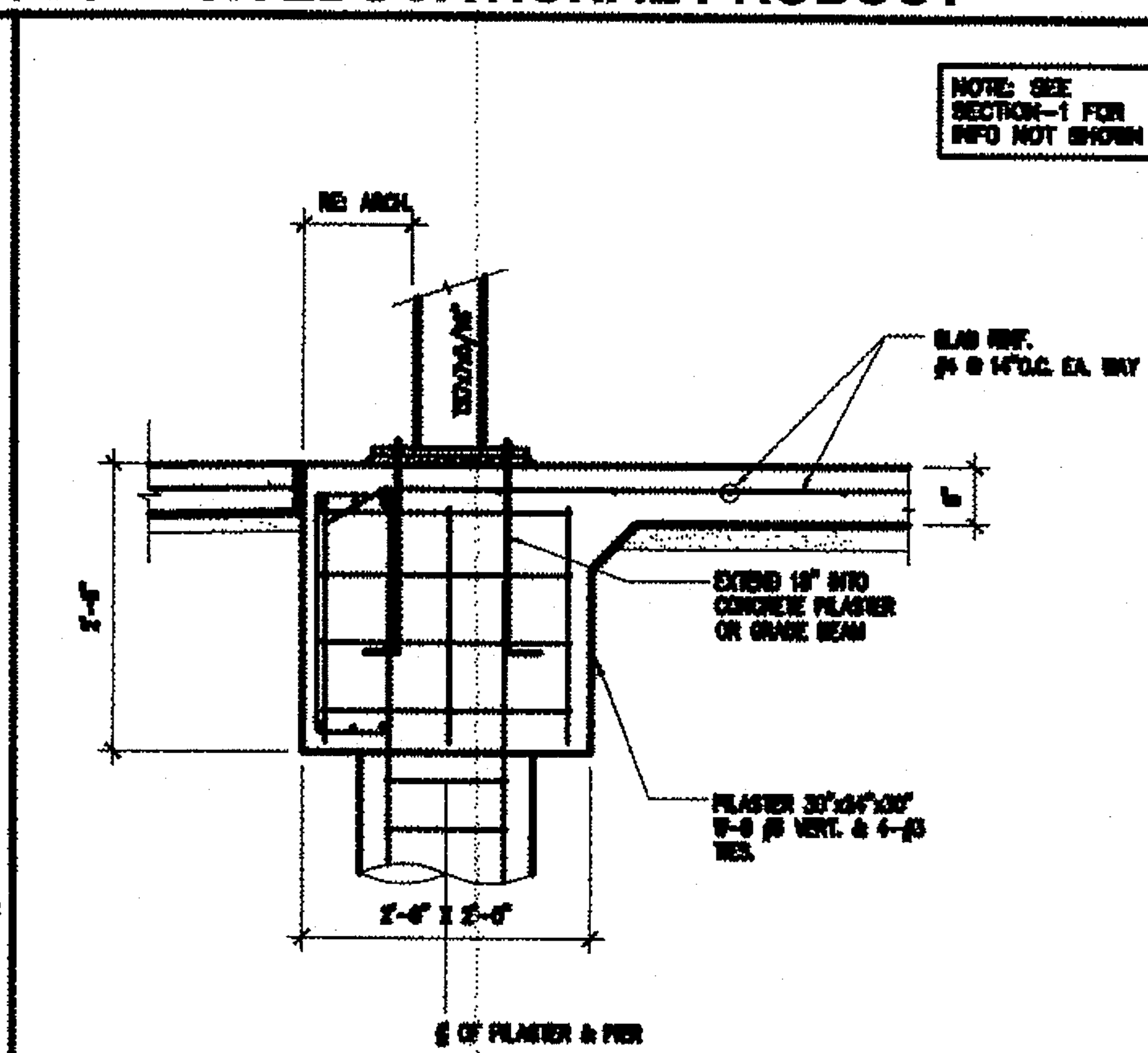
SHAFT REINFORCEMENT	
SHAFT DIA.	VERT. REINF.
12"ϕ	4-#5
14"ϕ	4-#5
18"ϕ	5-#5

TYPICAL DRILLED PIER DETAIL

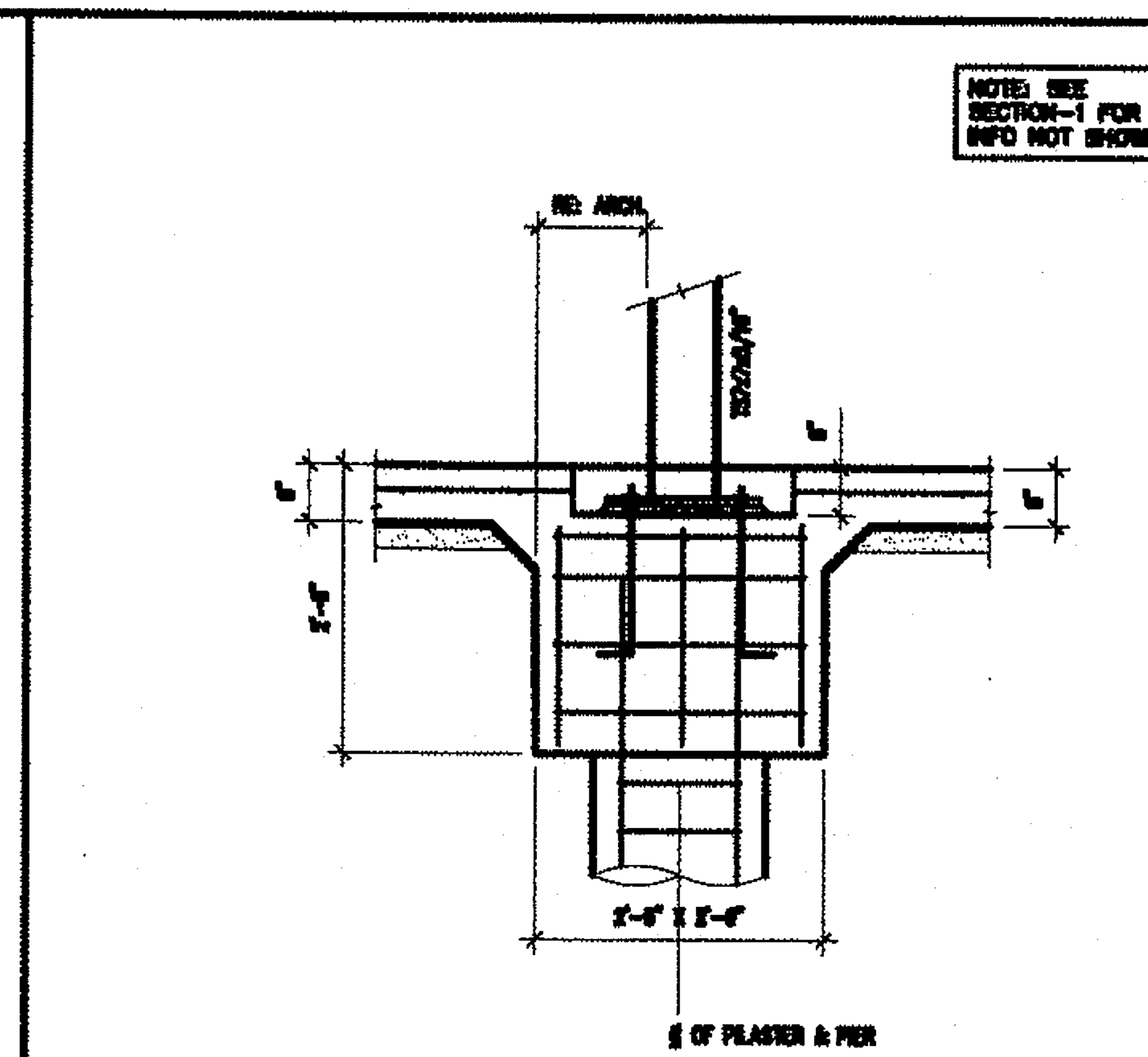
FOUNDATION PLAN
SCALE: 1/4"= 1'-0"



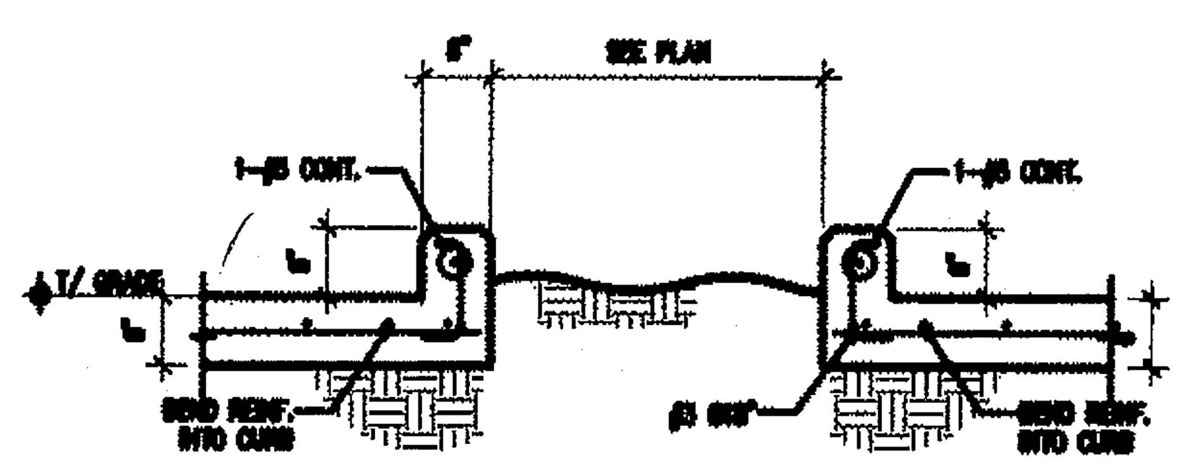
1 SECTION: TYPICAL EXTERIOR GRADE BEAM



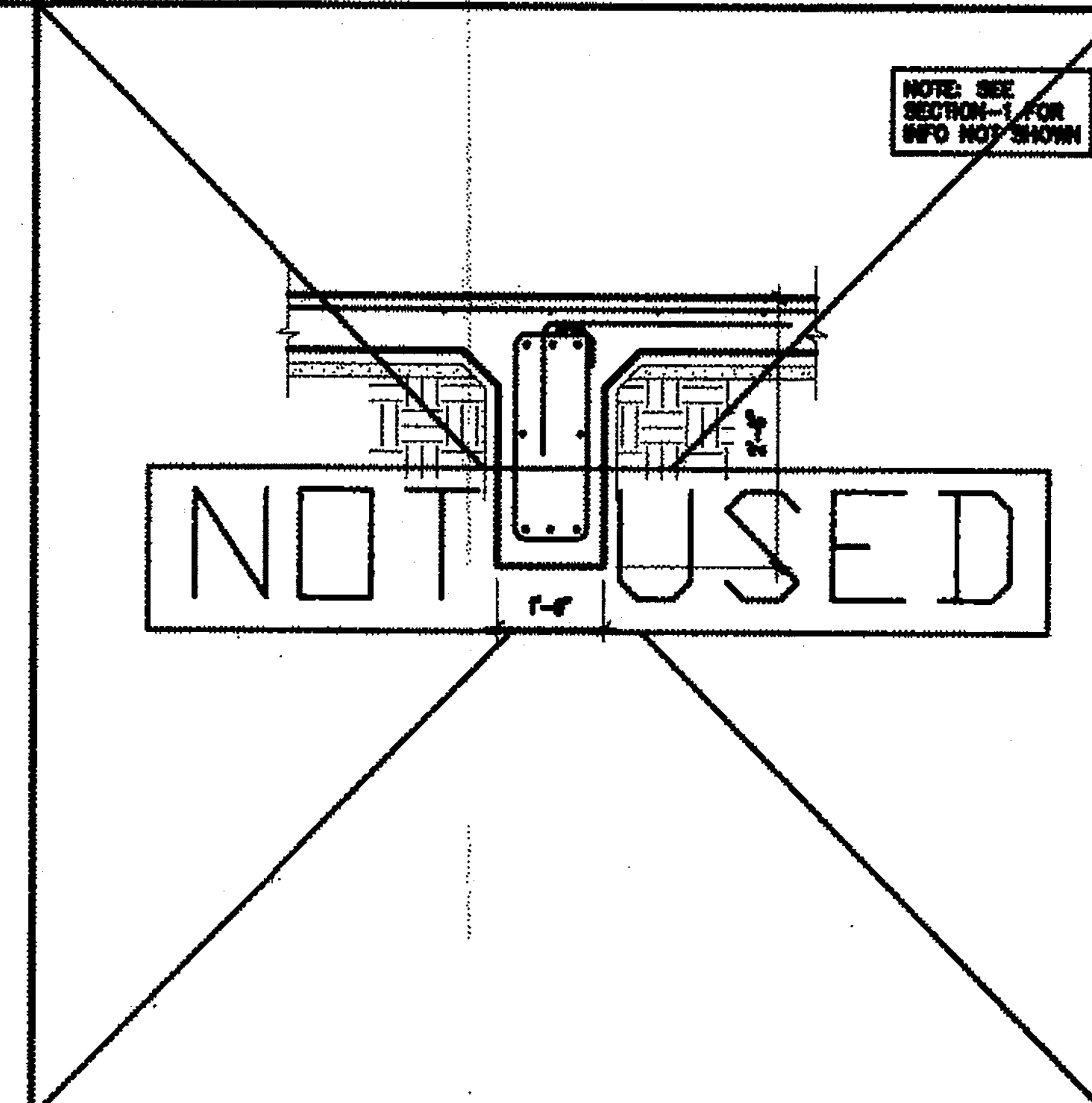
2 SECTION: TYPICAL EXTERIOR GRADE BEAM AT PILASTER



3 SECTION: TYPICAL INTERIOR PILASTER



4 SECTION: AT CURB



5 SECTION: AT INTERIOR BEAM

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	CONSTRUCTION

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PROJ. NO.: PE10-157

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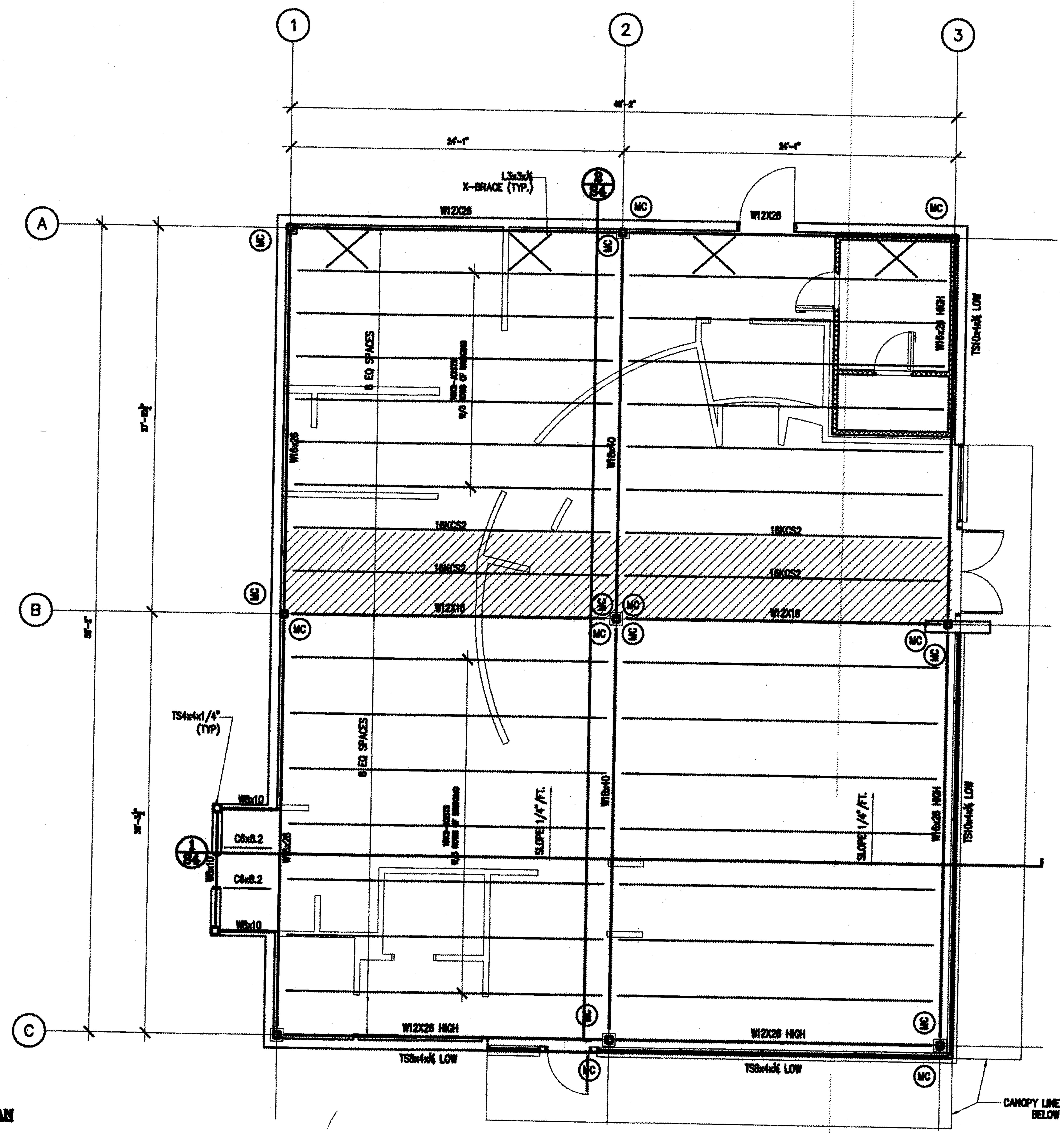

ROOF FRAMING PLAN
SCALE: 1/4"= 1'-0"

NOTES:

1-DESIGN BRIDGING FOR NET UPLIFT WIND PRESSURE OF 20 PSF.

2-ALL STEEL SHALL BE ASTM A572 GRADE 50

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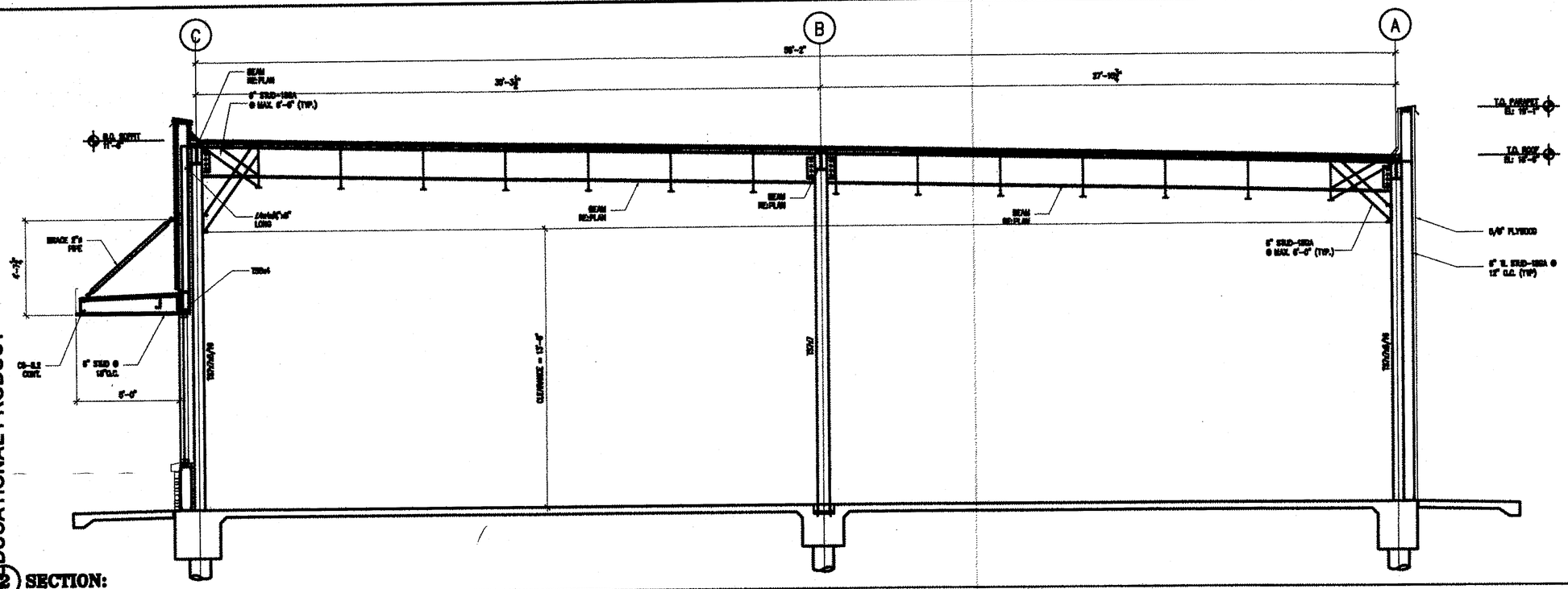
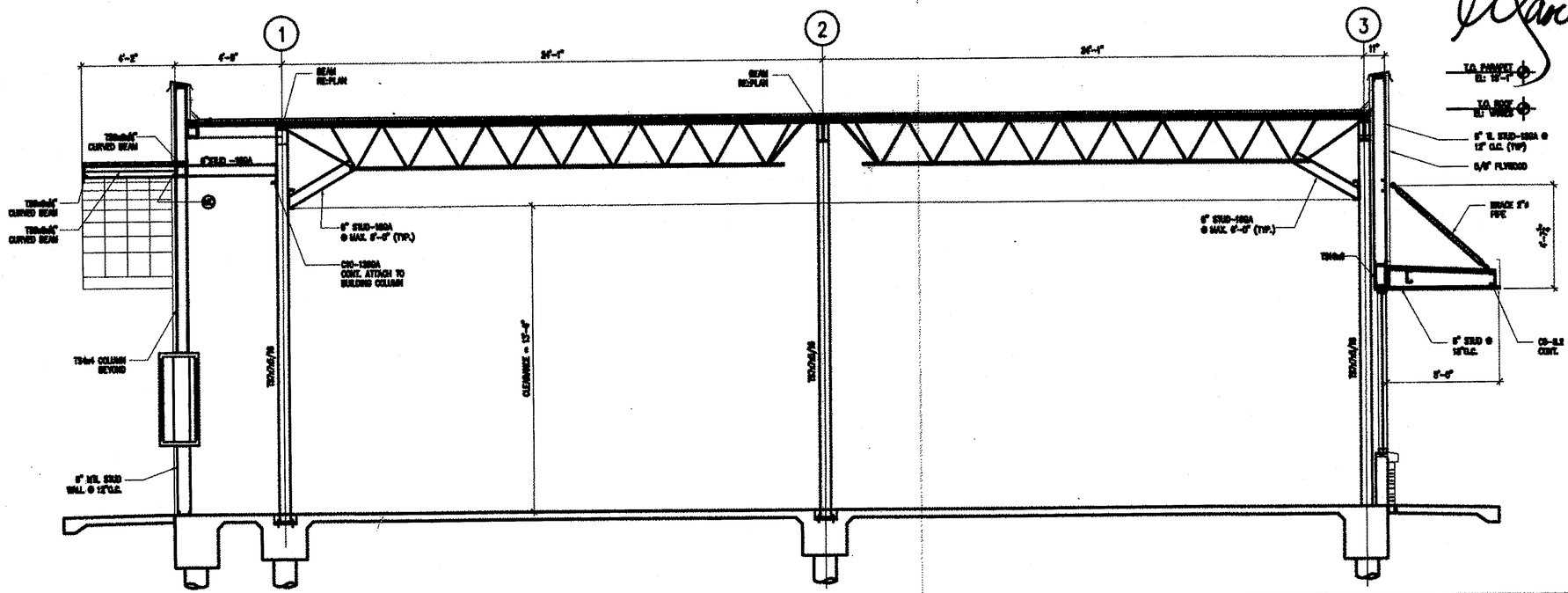


2 SECTION:



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PE
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INSPECTIONS
MARINE STRUCTURES
CIVIL ENGINEERING &
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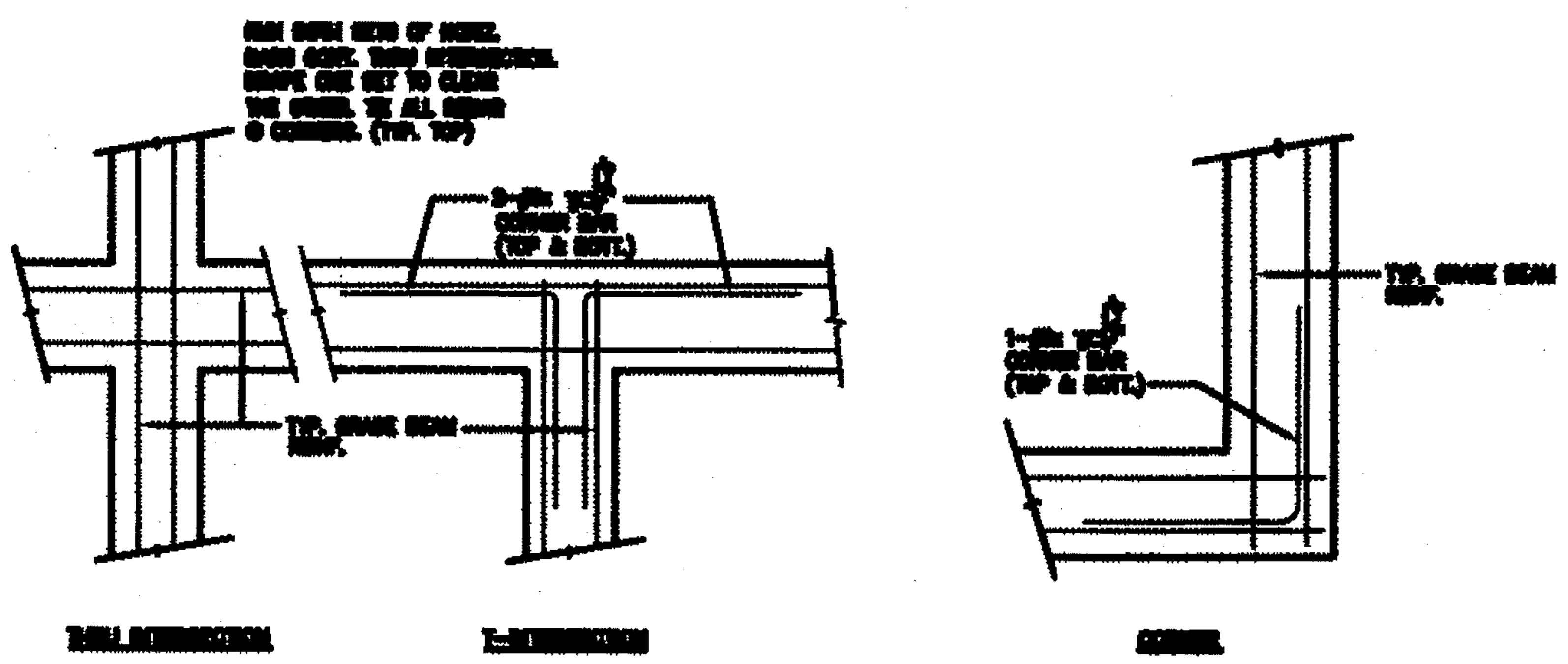

TYPICAL REINFORCEMENT DETAILS
@ GRADE BEAM INTERSECTIONS.

LIGHT GAUGE METAL FRAMING:

1. ALL LIGHT GAUGE METAL FRAMING INCLUDING METAL STUDS, METAL JOISTS, TRACK RUNNERS AND BRIDGING (STRAP OR OTHER) SHALL BE AS MANUFACTURED BY U.S.G. OR EQUAL. ALL SIZE GAUGES AND SPACES SHALL BE AS PER THE DRAWINGS.
2. PAINTED METAL STUDS SHALL BE PAINTED TO CONFORM TO ASTM A570 GRADE 50. GALVANIZED METAL STUDS SHALL CONFORM TO ASTM A446 GRADE D, 50 KSI YIELD. PAINTED METAL STUDS SHALL BE PAINTED TO CONFORM TO FEDERAL SPECIFICATION TT-P664. FIELD ABRASIONS TO MEMBERS DUE TO CUTTING OR WELDING SHALL BE TOUCHED UP WITH THE SAME WITH THE SAME GALVANIZED METAL STUDS SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZE COATING. FIELD ABRASIONS TO MEMBERS DUE TO CUTTING OR WELDING SHALL BE BE REPAIRED WITH COLD GALVANIZING COMPOUND PER MANUFACTURES SPECIFICATIONS.
3. PROVIDE HORIZONTAL BRIDGING AND PURLIN CONNECTION AS SUGGESTED BY MBMA.
4. PROVIDE 16 GAUGE CONTINUOUS TRACK AT ENDS OF STUDS. STUDS SHALL BE SEATED SQUARELY IN TRACK.
5. UNLESS NOTED OTHERWISE, PROVIDE 2-NO. 12 SCREWS OR 1/8" FILLET WELDS, 2 INCHES LONG FOR STUD TO STUD OR STUD TO TRACK CONNECTIONS.
6. STUD OR TRACK ATTACHMENTS TO STRUCTURAL STEEL SHALL BE ACCOMPLISHED BY FUSION WELDING 1" EACH SIDE OF STUD/TRACK AT EACH SUPPORT AND CONNECTION.
7. FUSION WELDING OF STUDS SHALL CONFORM TO ASTM E90.
8. WALLS VERTICAL STUD SHALL BE SCCNTHS BY UNIMAST INCORPORATED OR APPROVED EQUAL WITH THE FOLLOWING TYPE, GAGE, AND PHYSICAL PROPERTIES. U.N.O. OR DWGS.

WALL STUDS	GAGE:	16
	MOMENT OF INERTIA:	3.120 IN 4/FT
	SECTION MODULUS:	1.022 IN 3/FT
	MINIMUM DEPTHS:	6 IN (NOMINAL)

CONCRETE MASONRY NOTES:

1. ALL CONCRETE MASONRY UNITS SHALL BE ASTM C- 90 GRADE N TYPE I , SAND AND GRAVEL AGGREGATE Fm'= 1,500psi.
2. ALL MORTAR SHALL BE ASTM C-270 TYPE S MORTAR, CONSISTING OF PORTLAND CEMENT, LIME AND FINE AGGREGATE.
3. PORTLAND CEMENT SHALL CONFORM TO ASTM C- 150. AGGREGATE SHALL CONFORM TO ASTM C-144. HYDRATED LIME SHALL CONFORM TO ASTM C- 207
4. NO CALCIUM CHLORIDE OR FLY ASH SHALL BE PERMITTED IN MORTAR MIX.
5. VERTICAL CELLS SHOWN ON PLANS OR IN SECTION AS SOLID SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL CELL , MEASURING NOT LESS THAN 2" X 3"
6. ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLIDLY WITH 3000 PSI GROUT OR CONCRETE. THE MAXIMUM AGGREGATE SIZE FOR GROUTING SHALL BE 3/8".
7. ALL REINFORCEMENT STEEL BARS SHALL BE IN PLACE PRIOR TO GROUTING.
8. ALL SPLICE IN REINFORCEMENT BARS SHALL LAP A MINIMUM OF 30 BAR DIAMETER.
9. PROVIDE VERTICAL EXPANSION JOINT 3/4" WIDE AT MAX 20'-0" O.C AS PER INDUSTRY STANDARD.

STEEL DECK :

1. DESIGN, FABRICATION AND ERECTION OF METAL DECK SHALL BE CONFORM TO THE STEEL DECK INSTITUTE "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATION", LATEST EDITION.
2. WELDED MATERIALS AND PROCEDURES SHAL BE MADE TO ENSURE AGAINST BURNING OF HOLES IN THE DECK. WELDS SHALL CONFORM TO THE FOLLOWING PATTERNS USING STANDARD WELDED WASHERS, WHERE REQUIRED, AT SUPPORTING MEMBERS.
   A. WELD AT EACH SIDE LAP AND TWO EVENLY SPACED AT PANEL SEAMS. CORRUGATIONS BETWEEN SIDE LAPS AT INTERMEDIATE SUPPORTS.
   B. WELD AT 12" MAX. AT THE PERIMETER.
   C. #12 TEK FASTENERSAT 1/3 POINTS OF DECK SPAN AT PANEL SEAMS.

ROOF DECK	GAGE:	22
	MOMENT OF INERTIA:	0.12 IN 4/FT.
	SECTION MODULUS:	1.111 IN 3/FT.
	MINIMUM DEPTHS:	1 1/2 INCH (NOMINAL)
	USE "VULCRAFT 1.5F22 OR APPROVED EQUAL.	

3. MAJOR OPENINGS ARE SHOWN ON THE DRAWINGS. ALL OPENINGS LARGER THAN 12" SQUARE OR ROUND, SHALL HAVE STRUCTURAL STEEL FRAMING AROUND OPENINGS FOR DECK SUPPORT.

GENERAL CONCRETE NOTES:

DESIGN LOADS (IBC 2006)

1. LIVE LOADS ROOF 20PSF
   CEILING PURLINS 5 PSF
   FLOOR 100 PSF
2. WIND LOADS BASIC WIND DESIGN VELOCITY 120 MPH WITH 3 SECONDS GUST. EXPOSURE C IMPORTANCE FACTOR 1
3. ALL CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM, GRADE 60. NO. 3 BARS MAY CONFORM TO ASTM A615, GRADE 40.
4. CONCRETE SHALL BE REGULAR WEIGHT, SAND AND GRAVEL AGGREGATE , WITH TYPE 1 PORTLAND CEMENT . 5 SACK MIX, DESIGNATED MINIMUM COMPRESSIVE (F'C) OF 3000 PSI IN 28 DAYS.
5. ALL MIXING , TRANSPORTING , PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF AMERICAN CONCRETE INSTITUTE.
6. CONCRETE COVERING PROTECTION OF THE REINFORCEMENT BARS SHALL BE :
   DRILLED FOOTING .... 3" SIDES & BOTTOM
   SLAB ON GRADE .... 1" FROM TOP
   GRADE BEAM .... 1 1/2" TOP , BOTTOM ;3" SIDES 1 1/2"
   THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN GRADE BEAM OTHER THAN CONSTRUCTION JOINTS SHALL BE MADE IN QUARTER SPANS BETWEEN FOOTING WITH VERTICAL BULKHEADS .
7. LAP CONTINUOUS UNSCHEDULED REINFORCING BARS AS FOLLOWS : BOTTOM BARS IN MEMBERS SUPPORTED BY FOOTING AT LOCATIONS ~12" . TOP BARS SHALL BE LAP AT OR NEAR MID SPAN. LAP SHALL BE 50 BAR DIAMETERS.
8. GROUT UNDER THE BASE PLATES SHALL BE NON SHRINKING TYPE WITH MINIMUM COMPRESSIVE STRENGTH OF 6000 PSI IN 28 DAYS.
9. DETAILING AND PLACING OF CONCRETE REINFORCEMENT BARS AND ITS ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI 315 LATEST EDITION.
10. ALL CONFLICT OR OMISSIONS BETWEEN DRAWING , NOTE , SOIL REPORT AND SITE CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER . FAILURE TO DO SO WILL OBLIGATE THE CONTRACTOR TO ANY JOB EXPENSE ARISING

FILL & SUBGRADE PREPARATION

1. THE SITE SHOULD BE STRIPPED TO SUITABLE DEPTH TO REMOVE TOP SOIL, AS PER GEOTECHNICAL REPORT.
2. THE NATURAL SUBGRADE SHOULD BE SCARIFIED TO A MIN. DEPTH OF 6 IN. THE SCARIFIED SOIL SHOULD BE RECOMPACTED TO A MIN. 95% OF THE MAX. DRY DENSITY. THE MOISTURE CONTENT SHALL RANGE 1 TO 3% OF OPTIMUM MOISTURE.
3. SELECT FILL SHOULD CONSIST OF A CLEAN SANDY CLAY WITH LL LESS THAN 35 AND PI BETWEEN 10 & 20.
4. SELECT FILL SHOULD BE PLACED IN 6 -8 IN. LOOSE LIFTS AND COMPACTED TO 95% OF MAX. DRY DENSITY AS PER ASTM D698. (TOTAL 30" SELECT FILL COMPACTED)
5. A BEDDING LAYER OF LEVELING SAND OF 2" MAY BE PLACED UNDER THE FLOOR SLAB. VAPOR BARRIER OF 6 MIL SHEETING SHOULD BE PLACED OVER SAND.
6. SLAB ON GRADE SHALL BE PLACED ON SELECT FILL. REFER TO GEOTECHNICAL REPORT NO. G10-173 BY A.R.M. SOIL TESTING. FOR STRUCTURAL FILL & SUBGRADE. SUBGRADE AND ADDITIONAL FILL SHALL BE COMPACTED TO A MINIMUM OF NINETY- FIVE PERCENT (95%) OF ITS MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST, BY ASTM D-698 PROCEDURE. COVER THE PREPARED GRADE WITH 6 MIL POLYETHYLENE SHEETING. ADDITIONAL FILL MATERIALS SHALL BE SILTY OR SANDY CLAY HAVING A PLASTICITY INDEX (P.I.) OF 10 TO 20 AND A LIQUID LIMIT OF 25 OR MORE. FILL MATERIALS SHALL BE PLACED IN 3% TO EIGHT INCH LOOSE LIFTS.
7. ALL FOOTINGS ARE TO BEAR ON FIRM AND CLEAN SOIL. THE SOIL BEARING AT ALL FOOTING SHALL BE VERIFIED BY AN ACCEPTED METHOD. THE MINIMUM SOIL BEARING PRESSURE FOR THIS PROJECT IS 3,750 PSF FOR TOTAL AND 3,000 PSF FOR DEAD LOAD PLUS SUSTAINED LIVE LOAD. DRILLED FOOTING SHALL BE POURED IMMEDIATELY AFTER DRILLING.

STRUCTURAL AND MISCELLANEOUS STEEL

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSION, ELEVATION AND REVIEW THESE DRAWINGS BEFORE FABRICATION OR ORDERING MATERIALS.
2. ALL STRUCTURAL & MISC. SHAPES SHALL BE ASTM A572 GR 50
3. ALL DETAILING SHAL BE IN CONFORMANCE WITH THE STANDARDS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC).
4. UNLESS NOTED OTHERWISE, PROVIDE FRAMED BEAM CONNECTIONS IN ACCORDANCE WITH PART 4, AISC MANUAL - 3/4" ASTM A-325 BOLTS. DESIGN FOR SHEARS IN TABLES FOR ALLOWABLE LOADS ON BEAMS, PART 2.
5. FIELD CONNECTIONS SHALL BE EQUIVALENT TO STANDARD BOLTED CONNECTIONS USING 3/4" ASTM A-325 BOLTS UNLESS OTHERWISE SHOWN. IF CONNECTION BOLT ARE IN SINGLE SHEAR BOLTS SHALL BE PLACED IN ONE VERTICAL ROWS. CONNECTION SHALL BOLTED OR WELDED. - SEE DETAILS.
6. WELDING SHALL CONFORM TO THE "CODE OF WELDING IN BUILDING CONSTRUCTION" BY THE AMERICAN WELDING SOCIETY, LATEST EDITION. WELDS NOT CALLED OUT ON DRAWINGS SHALL BE 3/16" CONTINUOUS FILLET WELDS. WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E70XX.
7. ANCHOR BOLTS SHALL CONFORM TO ASTM A-325 FOR HEADED A.B. THAT SHALL BE SET USING RIGID TEMPLATES.

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