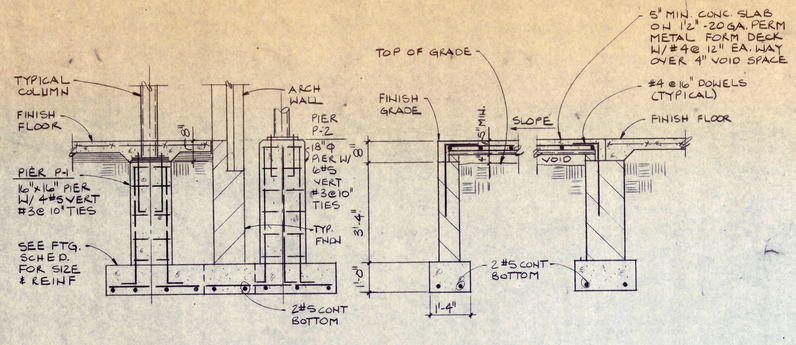
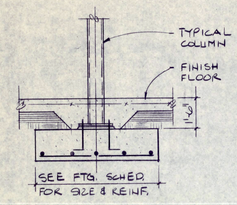
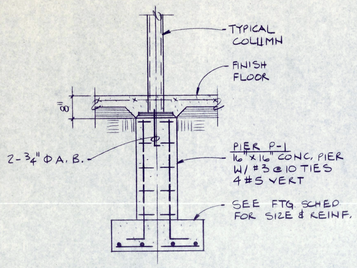


2/S1.1 SECTION
SCALE 1/2"=1'-0"

1/S1.1 SECTION
SCALE 1/2"=1'-0"



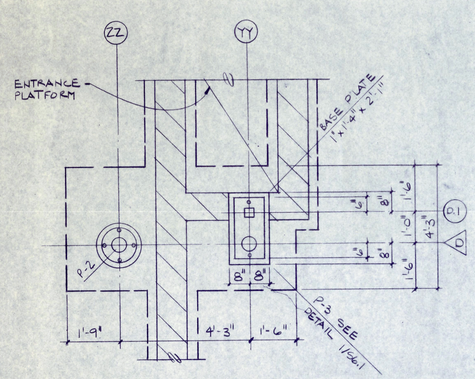
INT. COL W/O PIER



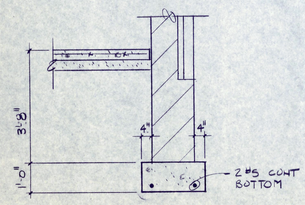
COL W/PIER

4/S1.1 SECTION
SCALE 1/2"=1'-0"

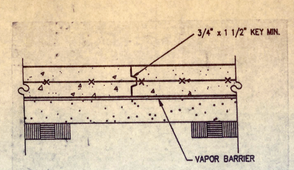
3/S1.1 SECTION
SCALE 1/2"=1'-0"



5/S1.1 PLAN DETAIL
SCALE 1/2"=1'-0"



6/S1.1 SECTION
SCALE 1/2"=1'-0"



CONST. JOINT

FOOTING SCHEDULE

MARK	SIZE	BOTTOM REINFORCING EACH WAY	REMARKS
F-1	3'-0"x 3'-0"x1'-0"	4 #4	
F-2	4'-0"x4'-0"x1'-0"	5#4	
F-3	5'-0"x 5'-0"x1'-0"	5#6	
F-4	3'-0"x 7'-6"x1'-0"	4#4 LW 7#4 SW	
F-5	4'-0"x 7'-6"x1'-0"	4#4 LW 7#4 SW	

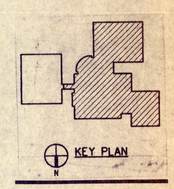
COMPRESSIVE STRENGTH TABLE

USE	SLUMP	28 DAY STRENGTH
FOUNDATIONS, SLABS ON GRADE AND ON METAL DECK, MISC. INTERIOR CONCRETE.	2"-4"	3000 PSI
EXTERIOR, WALKS, PAVEMENTS MISC. CONCRETE EXPOSED TO WEATHER.	2"-3"	4000 PSI (AIR - ENTRAINED)

GENERAL FOUNDATION AND CONCRETE NOTES
(EXCEPT AS OTHERWISE SHOWN OR NOTED)

1. FOOTINGS SHALL BEAR ON FIRM UNDISTURBED SOIL OF 3000 PSF BEARING CAPACITY. IF POOR SOIL IS ENCOUNTERED AT DEPTHS INDICATED, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING IN THAT AREA.
2. CONTRACTOR SHALL NOTIFY SOIL LAB 24 HOURS BEFORE BEING REQUIRED ON JOB.
3. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH THE SLUMP AND MINIMUM COMPRESSIVE STRENGTH INDICATED ON THE CONCRETE COMPRESSIVE STRENGTH TABLE.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.
5. REINFORCING SHALL BE CONTINUOUS; LAP 30 BAR DIA. AT SPLICES AND CONTINUE AROUND CORNERS.
6. SLABS CAST ON GRADE SHALL BE TYPICALLY 5" THICK, REINFORCED WITH 6 X 6 W2.1 X W2.1 WELDED WIRE FABRIC ABOVE CENTER OF SLAB.
7. PROVIDE 4" MIN. MDOT CLASS II GRANULAR FILL UNDER SLABS ON GRADE. COMPACT TO 95% MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
8. CONTRACTOR SHALL ENSURE STABILITY OF FOUNDATION WALLS DURING CONSTRUCTION BY BRACING AS REQUIRED.
9. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR COORDINATION OF STRUCTURAL DRAWING DIMENSIONS.
10. REFER TO CIVIL AND MECHANICAL DRAWINGS FOR THE LOCATION OF UNDERGROUND UTILITIES AND EXISTING SITE CONDITIONS.
11. LOCATE ALL SLEEVES, OPENINGS, DEPRESSIONS, AND EMBEDDED ITEMS WHICH ARE INDICATED ON OTHER DESIGN DRAWINGS PRIOR TO THE PLACING OF CONCRETE IN THE AREA INVOLVED.

FOUNDATION PLAN
SCALE 1/8"=1'-0"



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project title
Marshall Elementary Renovation

Livonia Public Schools

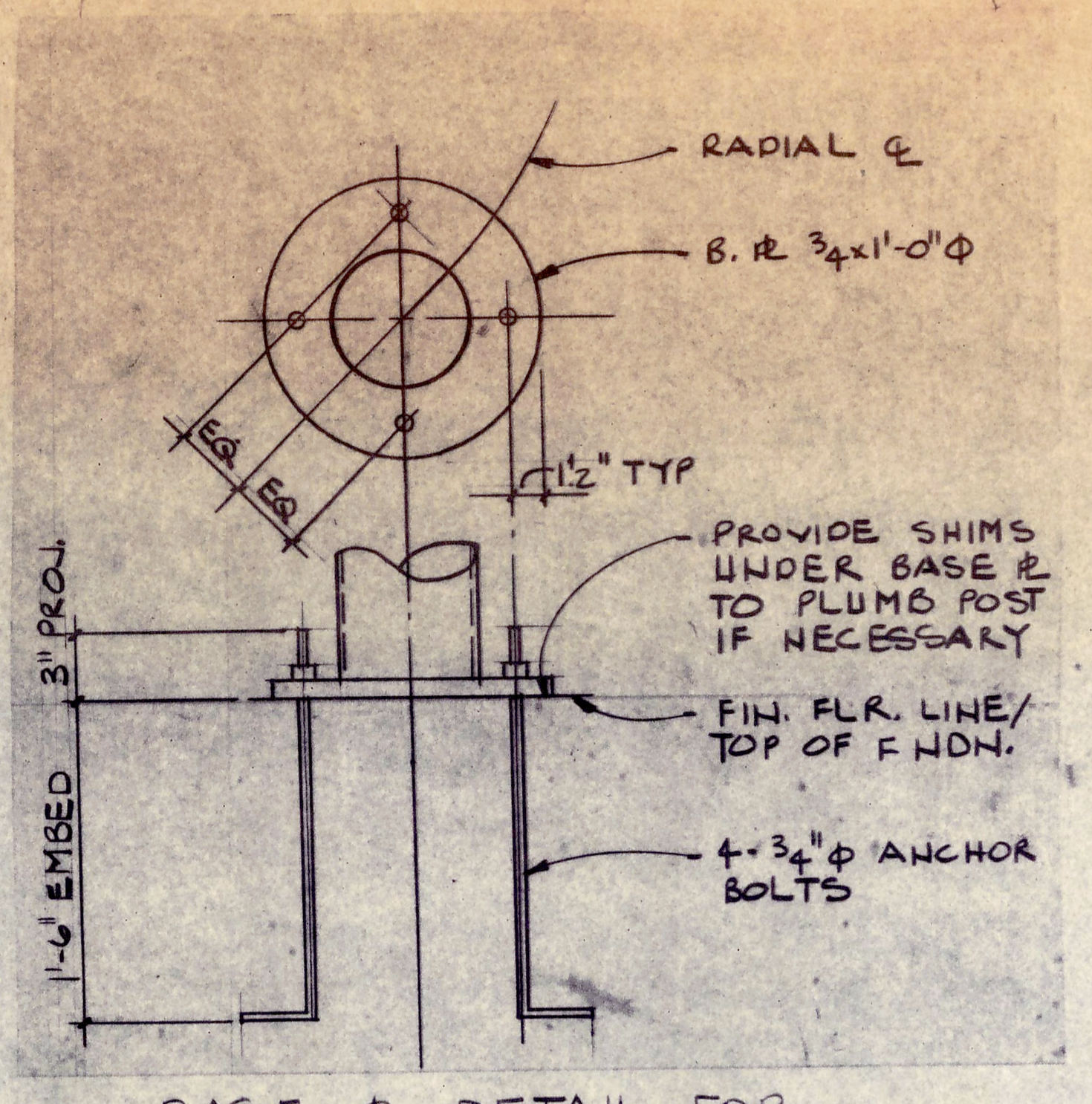
sheet title
Foundation Plan and Details Zone "A"

date	issued for
8-24-92	BIDS
8-17-92	9590 REVIEW
5-26-92	DESIGN DEV.

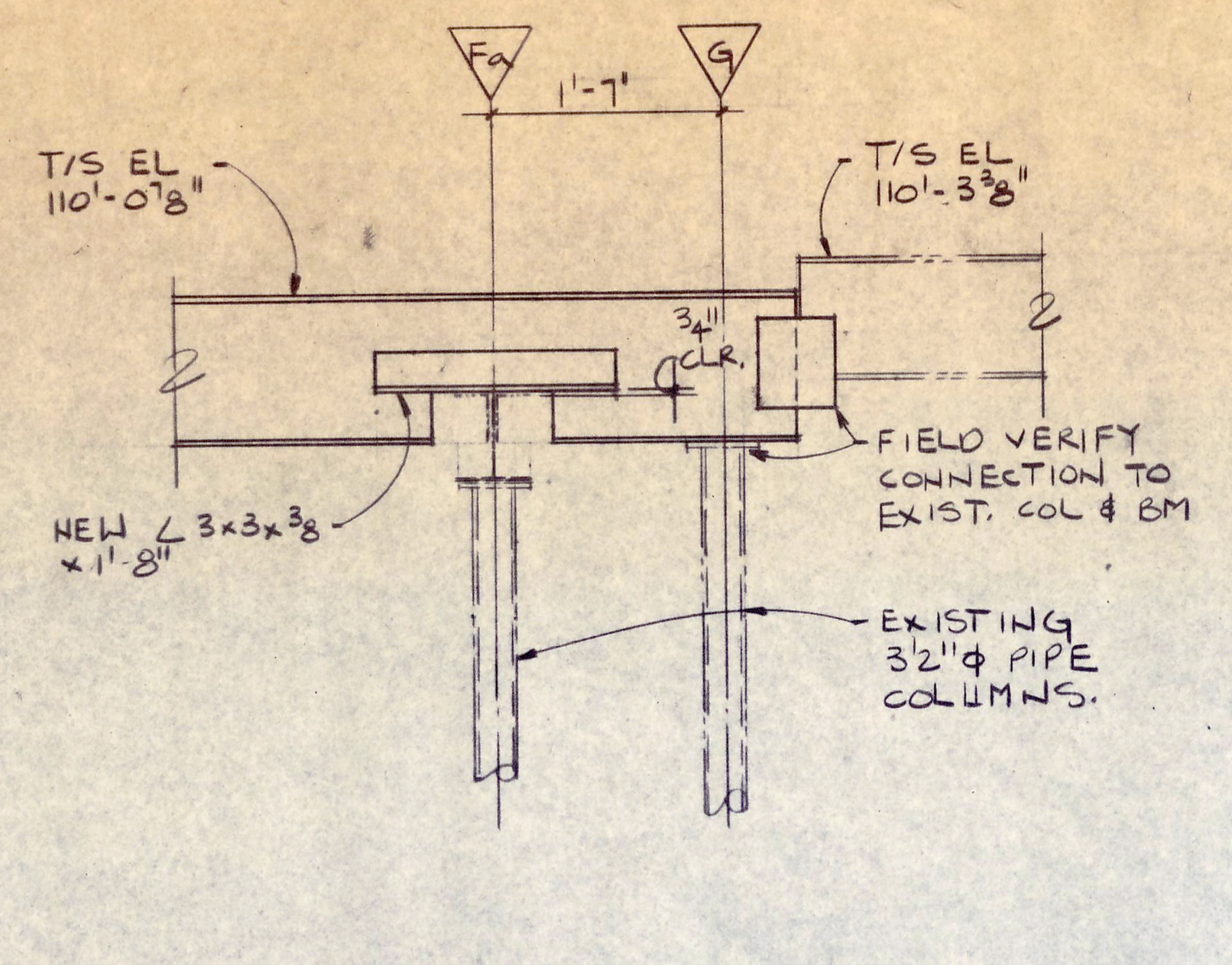
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checked TAB
approved TAB

job no.
92014

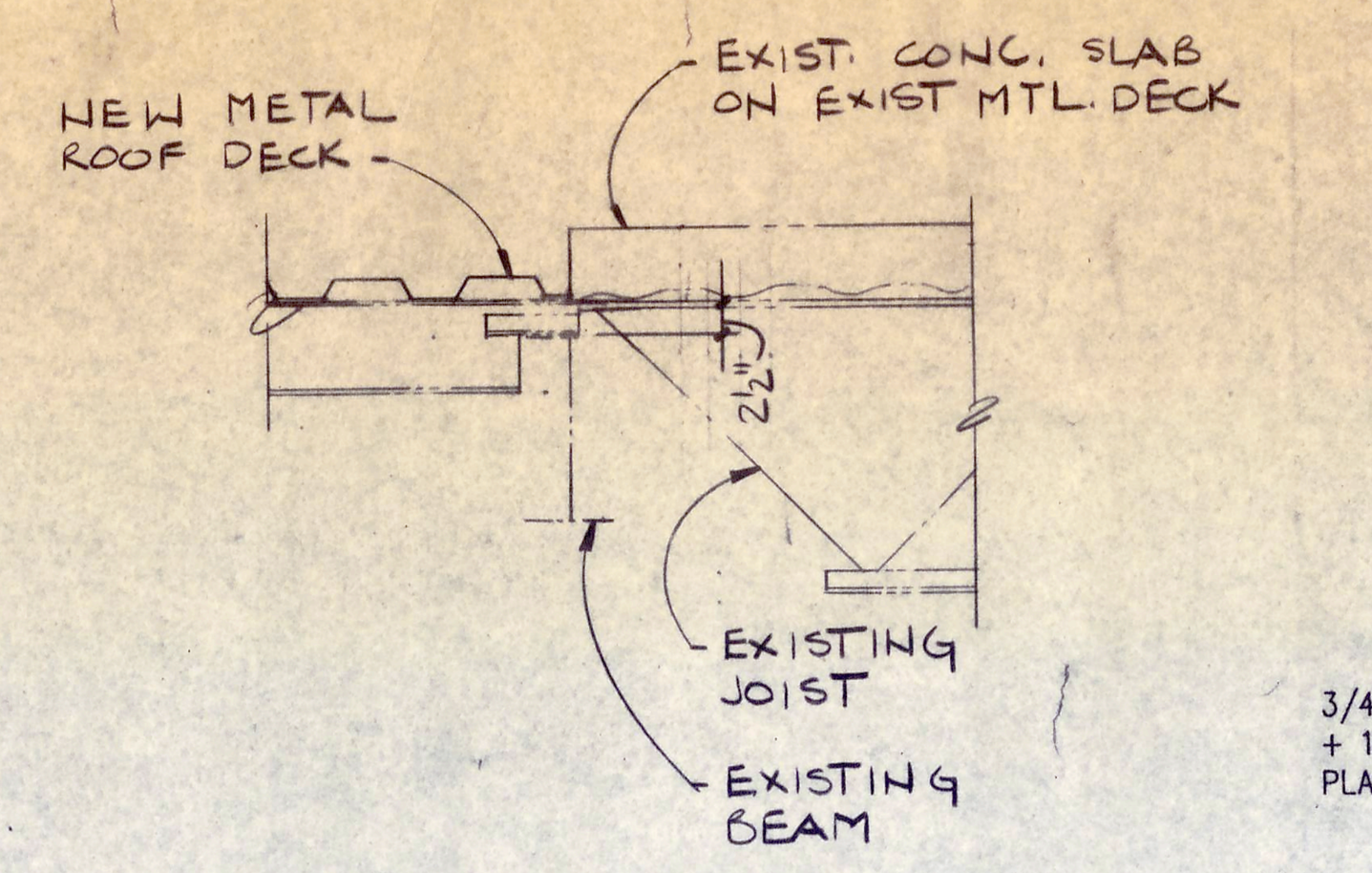
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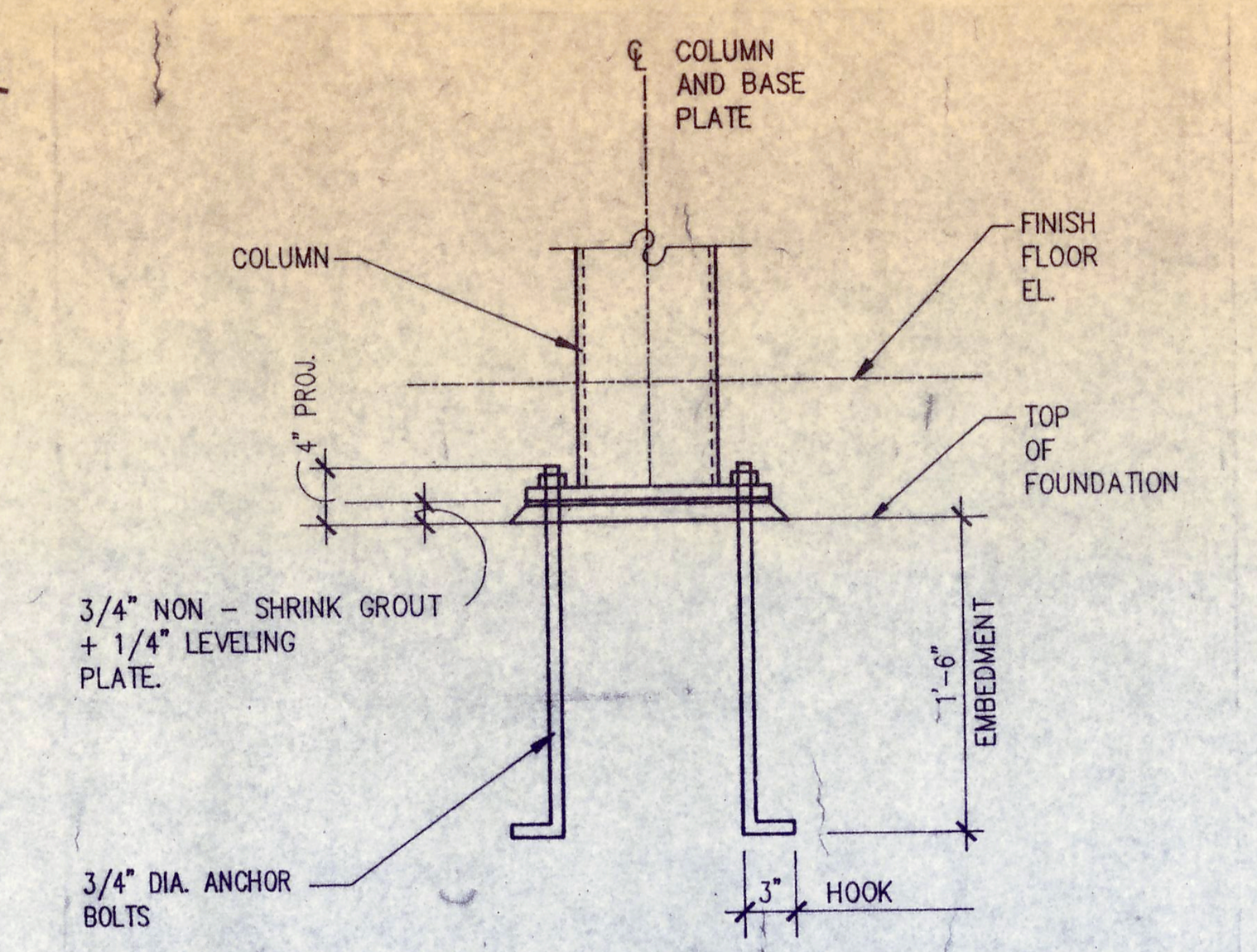
BASE PL DETAIL FOR SUNSCREEN POSTS
NO SCALE



(2/S1.2) SECTION
SCALE 3/4"=1'-0"



(1/S1.2) SECTION
SCALE 3/4"=1'-0"

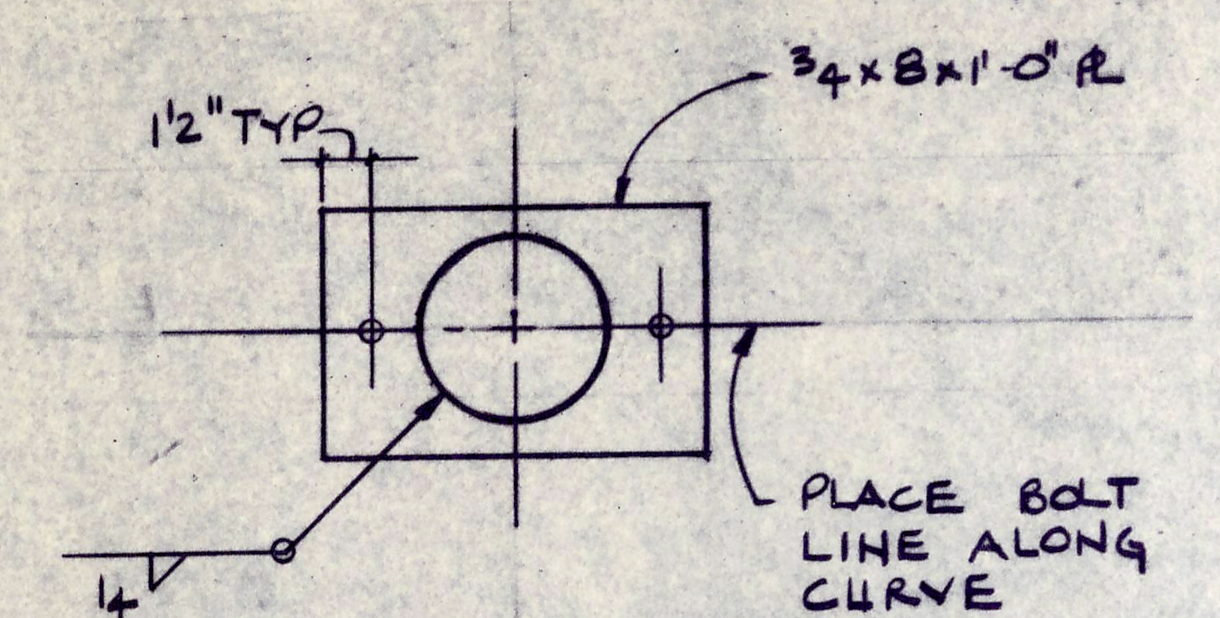


TYPICAL BASE PLATE DETAIL

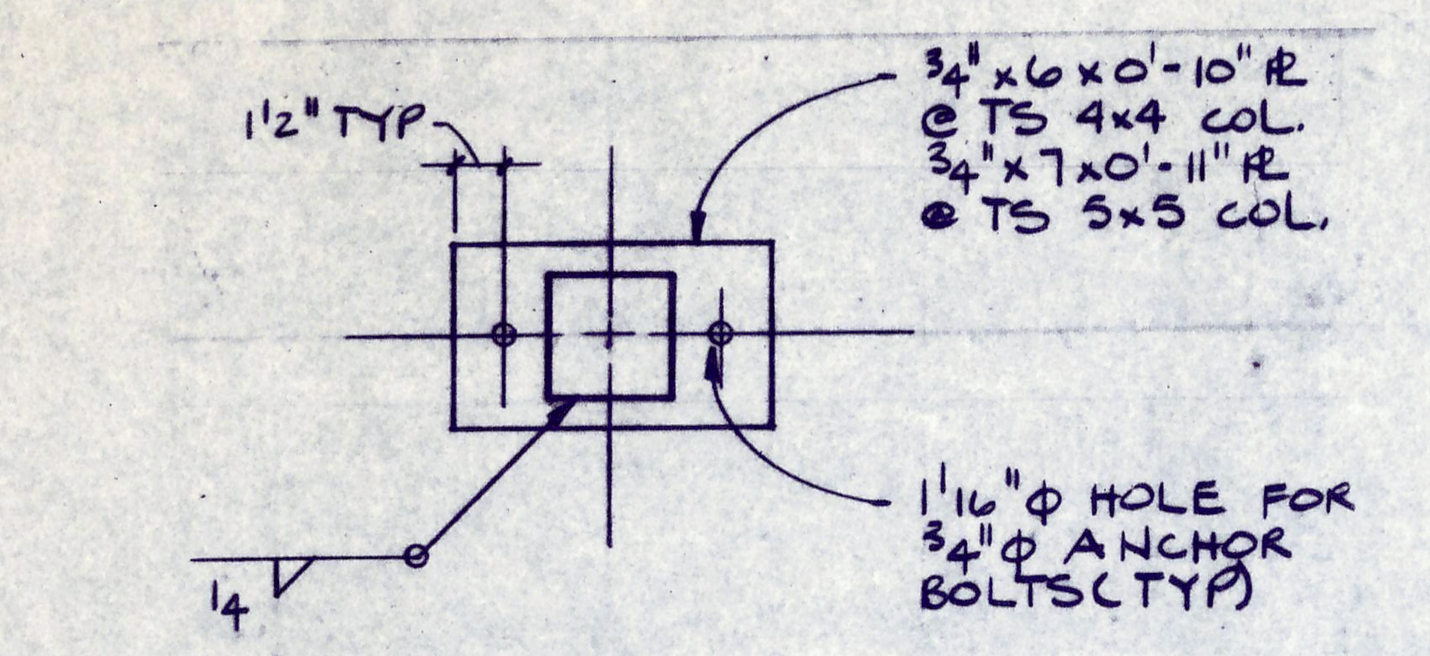
DESIGN ROOF LOAD - TYPICAL	
LIVE LOAD	* 30 PSF
DEAD LOAD	
RFG. & INS.	10 PSF
STEEL	4 PSF
METAL DECK	3 PSF
MISC.	8 PSF
TOTAL DEAD LOAD	25 PSF

GENERAL NOTES - STRUCTURAL STEEL
(EXCEPT AS OTHERWISE SHOWN OR NOTED)

1. STRUCTURAL STEEL SHALL MEET THE REQUIREMENTS OF THE AISC SPEC. FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. SQUARE AND RECTANGULAR TUBES SHALL CONFORM TO ASTM A500 WITH A Fy = 46 ksi. PIPE COLUMNS SHALL CONFORM TO ASTM A-53 WITH A Fy = 36 ksi.
3. ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. ASTM A325N BEARING TYPE BOLTS (WITH THREADS ASSUMED IN THE SHEAR PLANE) UNLESS OTHERWISE NOTED.
4. ALL ROOF BEAM END CONNECTIONS SHALL BE DOUBLE ANGLES CAPABLE OF SUPPORTING 50% OF THE TOTAL UNIFORM LOAD CAPACITY OF THE BEAM UNLESS OTHERWISE NOTED. CONNECTION ANGLES SHALL BE 5/16" MINIMUM THICKNESS.
5. ALL TUBE AND PIPE COLUMN CONNECTIONS TO BE THRU PLATE TYPE WITH 3/8" MINIMUM THICKNESS OR DOUBLE ANGLES.
6. SEE ARCHITECTURAL DRAWINGS FOR ANGLES, CLIPS, BARS, PLATES AND OTHER ITEMS ATTACHED TO STRUCTURAL MEMBERS.
7. VERIFY SIZE AND LOCATION OF ROOF OPENINGS WITH MECHANICAL CONTRACTOR.
8. PROVIDE TEMPORARY BRACING AS REQUIRED TO MAINTAIN ALIGNMENT AND SECURITY OF STRUCTURE DURING CONSTRUCTION.
9. DO NO CUTTING, DRILLING OR MODIFYING OF STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE ARCHITECT.
10. CONTRACTOR SHALL VERIFY PERTINENT DIMENSIONS AND CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
11. STEEL JOISTS SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE STANDARDS OF THE STEEL JOIST INSTITUTE.
12. ADJACENT OPEN WEB STEEL JOISTS OF SAME DEPTH AND SPAN SHALL HAVE PANEL POINTS ALIGNED FOR CLEAR PASSAGE OF ELECTRICAL AND MECHANICAL SERVICES.

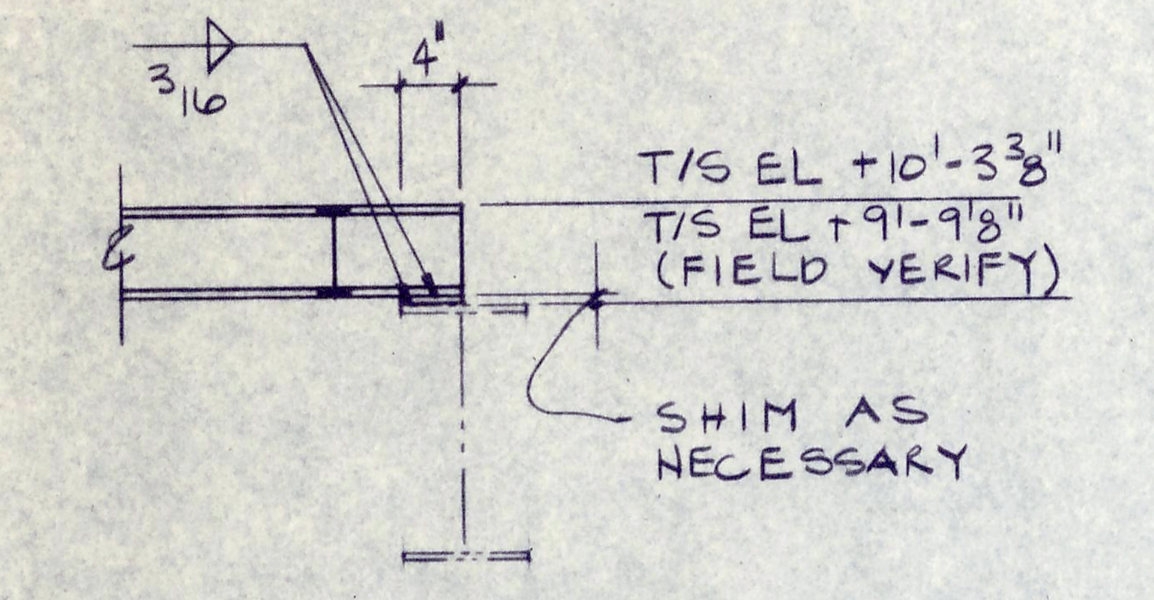


BASE PL DETAIL FOR 6" Φ PIPE COLUMN
NO SCALE

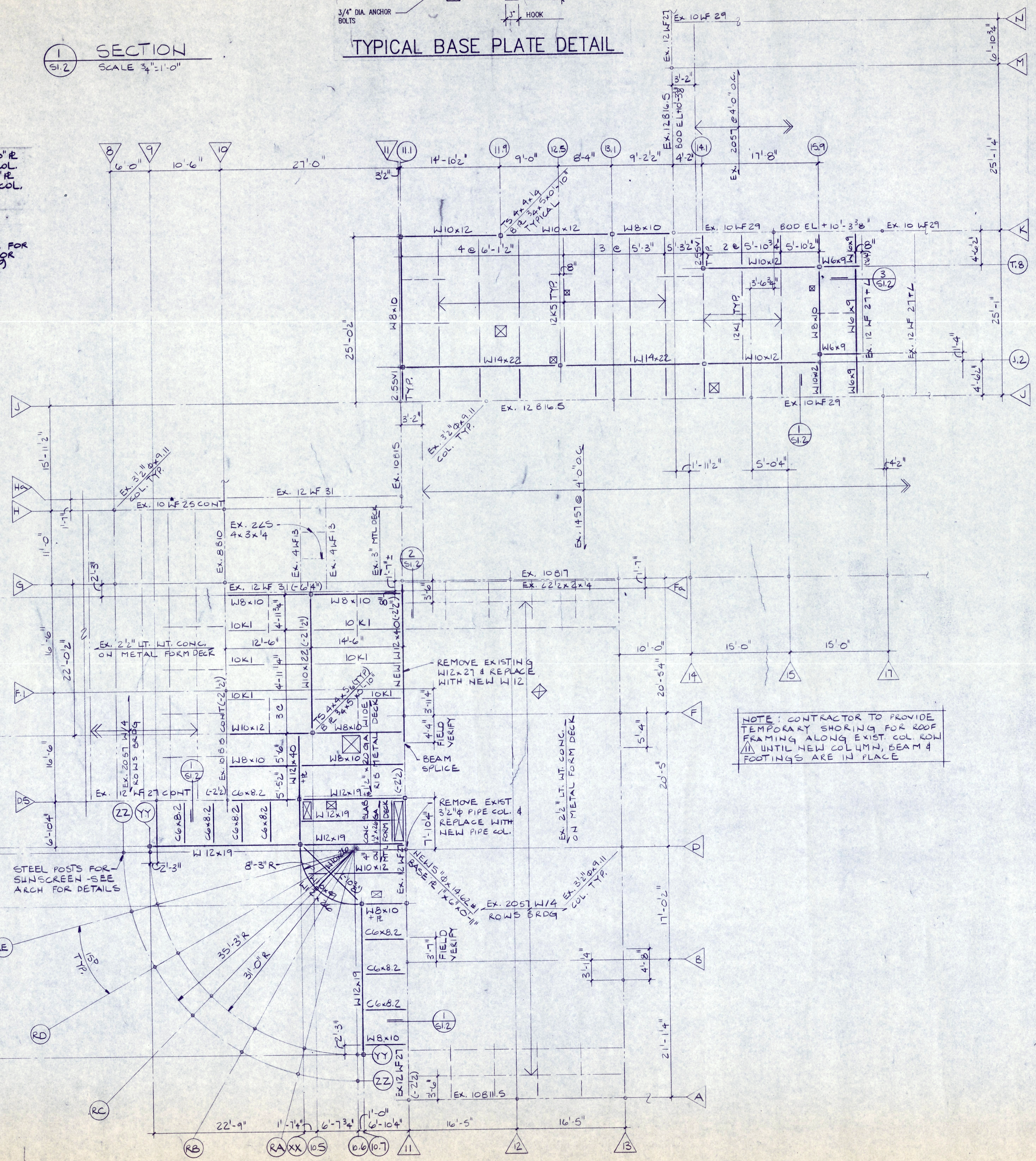


BASE PL DETAIL FOR TS 4x4 & TS 5x5 COL.
NO SCALE

DESIGN FLOOR LOAD - MECHANICAL	
LIVE LOAD	125 PSF
DEAD LOAD	
STRUCTURAL SLAB ON DECK	55 PSF
STEEL	6 PSF
MISC.	64 PSF
TOTAL DEAD LOAD	125 PSF

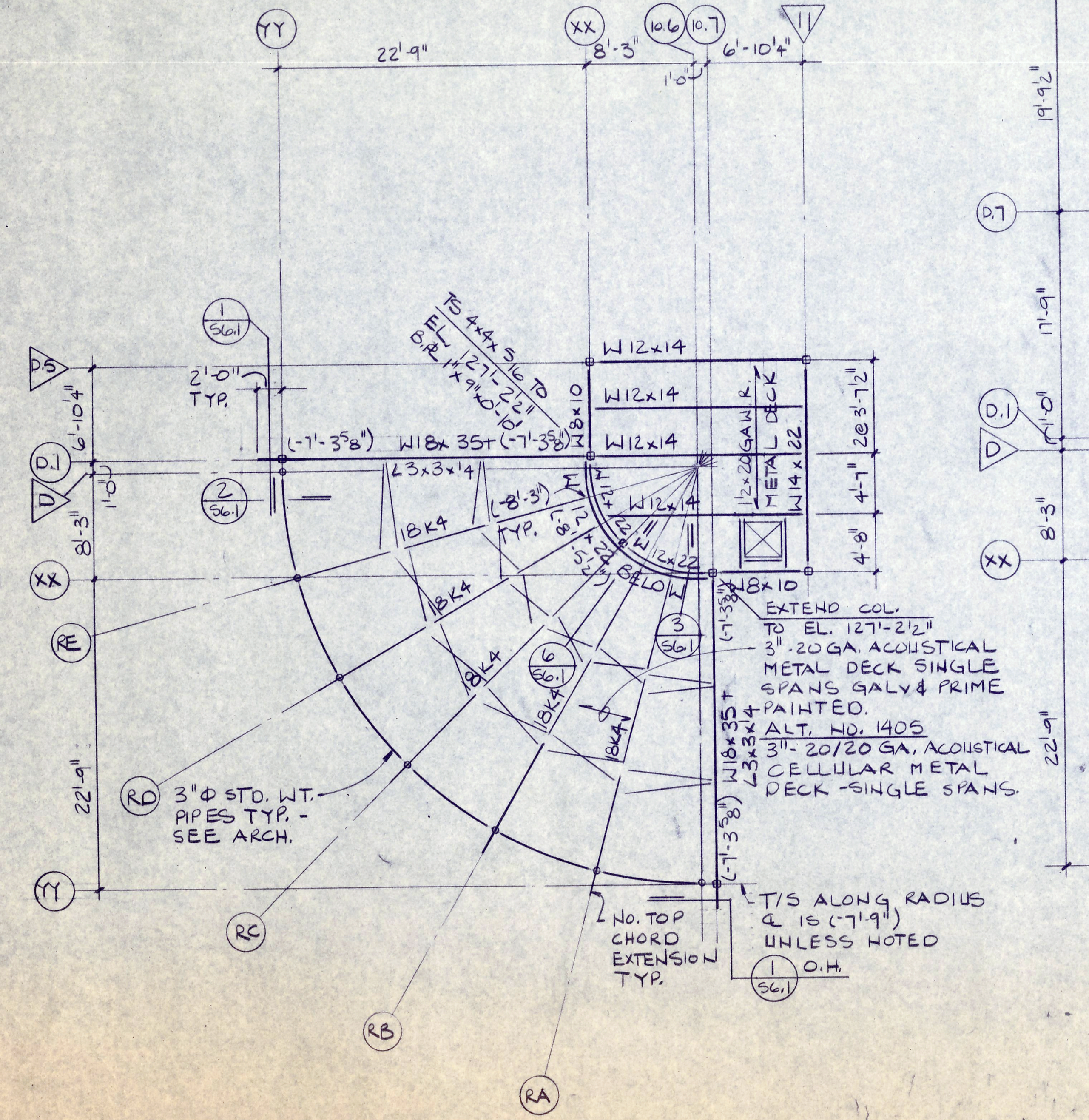


(3/S1.2) SECTION
SCALE 3/4"=1'-0"



LOW ROOF & MECHANICAL MEZZANINE FRAMING PLAN
SCALE 1/8"=1'-0"

1. TOP OF STEEL ELEVATION IS +110'-3 3/8" UNLESS NOTED (+) OR (-). BEAMS SUPPORTING JOISTS TO BE -2 1/2" TYP.



HIGH ROOF FRAMING PLAN
SCALE 1/8"=1'-0"

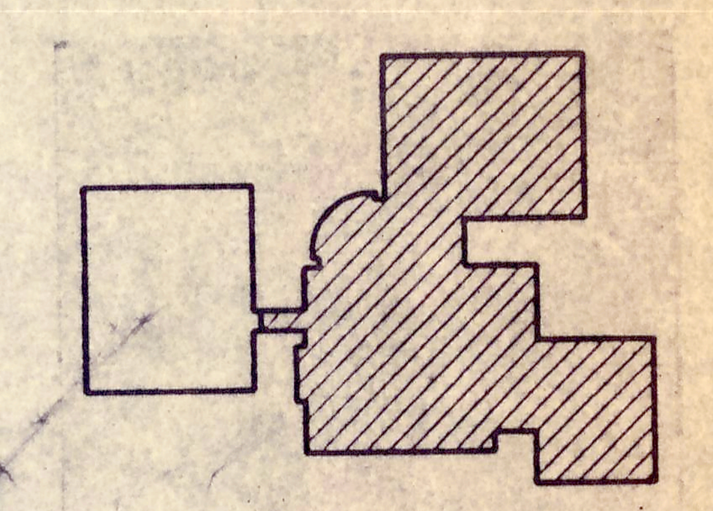
1. TOP OF STEEL (T/S) ELEVATION IS EL. 123'-0" UNLESS NOTED (+) OR (-)

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project title
Marshall Elementary Renovation

Livonia Public Schools

sheet title
High Roof Framing Plan, Low Roof and Mechanical Mezzanine Framing Plan and Details
Zone "A"



KEY PLAN

date	issued for
8-24-92	BIDS
8-17-92	95% REVIEW
5-26-92	DESIGN DEV.

drawn BDM
checked TAB
approved TAB

job no.
92014

sheet no.
S1.2