

BEAM DEPTH	SIZE OF DOUBLE ANGLES	NO. DOUBLE END RISE
6" OR LESS	16 x 4 x 3/8	1
8" x 10"	16 x 4 x 5/8	2
10" x 14"	16 x 4 x 5/8	3
12" x 16"	16 x 4 x 5/8	4
14" x 18"	16 x 4 x 5/8	5
16" x 20"	16 x 4 x 5/8	6
18" x 22"	16 x 4 x 5/8	7
20" x 24"	16 x 4 x 5/8	8

NOTE: USE THIS CONNECTION UNLESS NOTED OTHERWISE ON SECTIONS AND DETAILS.

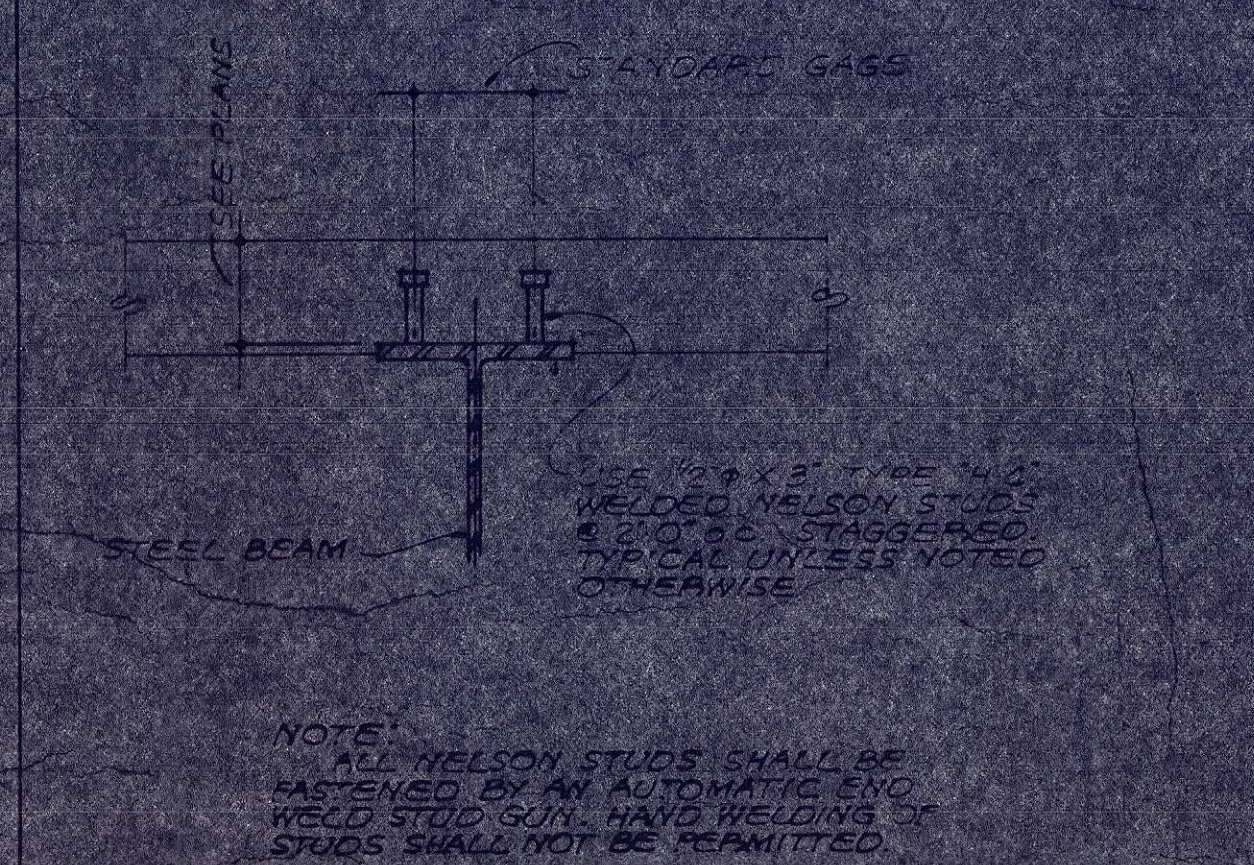
TYP. STEEL BEAM CONNECTION (14) (S.I.)

BUTT WELDED JOINT LIMITATIONS

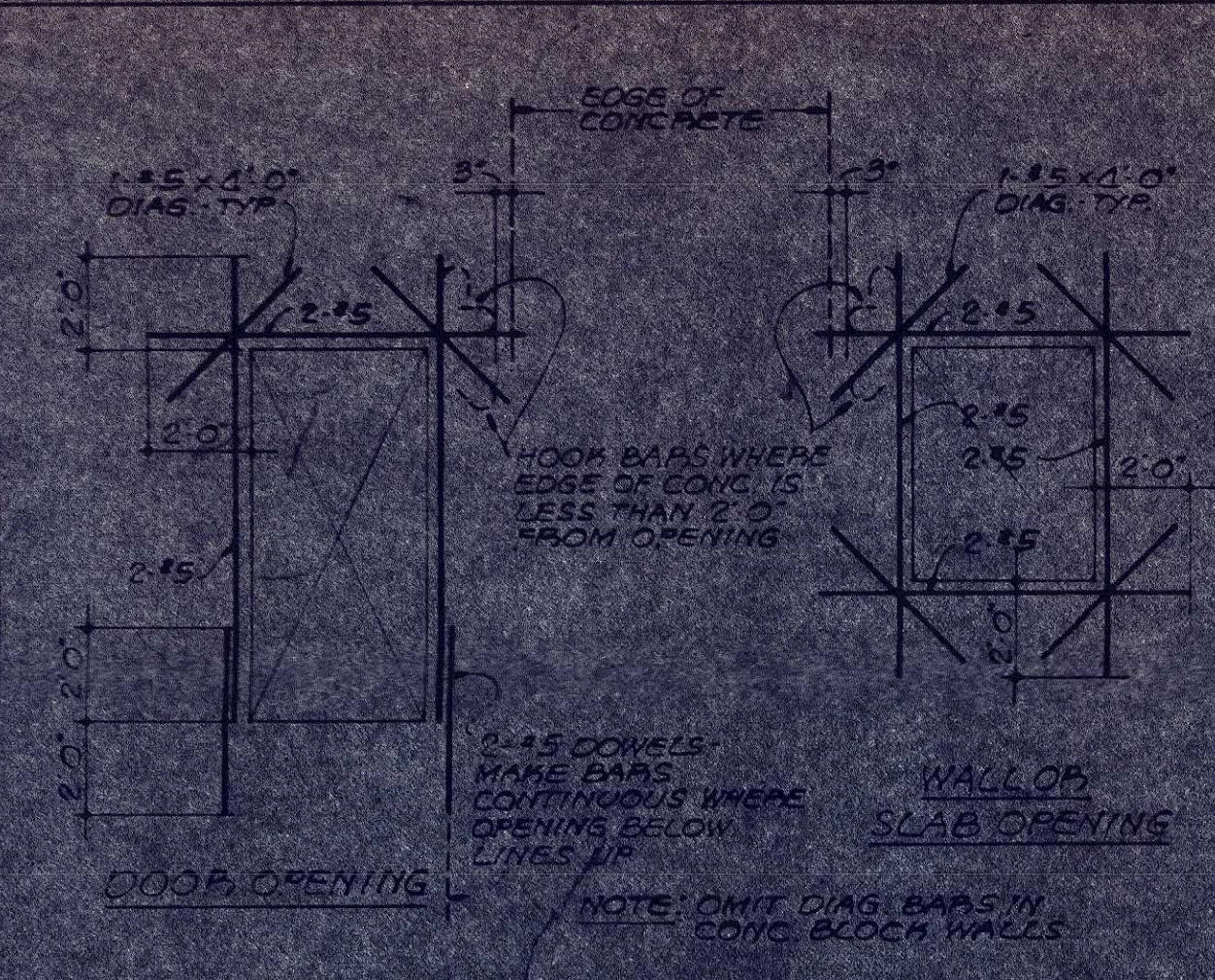
TYPE OF JOINT	WELDED BOTH SIDES		WELDED ONE SIDE ON EACH SIDE (TYP.)	
	SEPARATION OF SEAMS	MAXIMUM BEAM THICKNESS	MINIMUM BEAM THICKNESS	SEPARATION OF SEAMS
SQUARE SEAM	1/8" MIN. GAP	1/8"	1/8"	NOT ALLOWED
SINGLE VEE	1/8"	1/8"	1/8"	NOT ALLOWED
DOUBLE VEE	1/8"	1/8"	1/8"	NOT ALLOWED
DOUBLE BUTT	1/8"	1/8"	1/8"	NOT ALLOWED

NOTE: THE ABOVE WELDED JOINTS ARE FOR QUALIFIED FULL PENETRATION BUTT WELDERS. ALL BUTT JOINTS SHALL BE FULL PENETRATION UNLESS SPECIFICALLY NOTED.

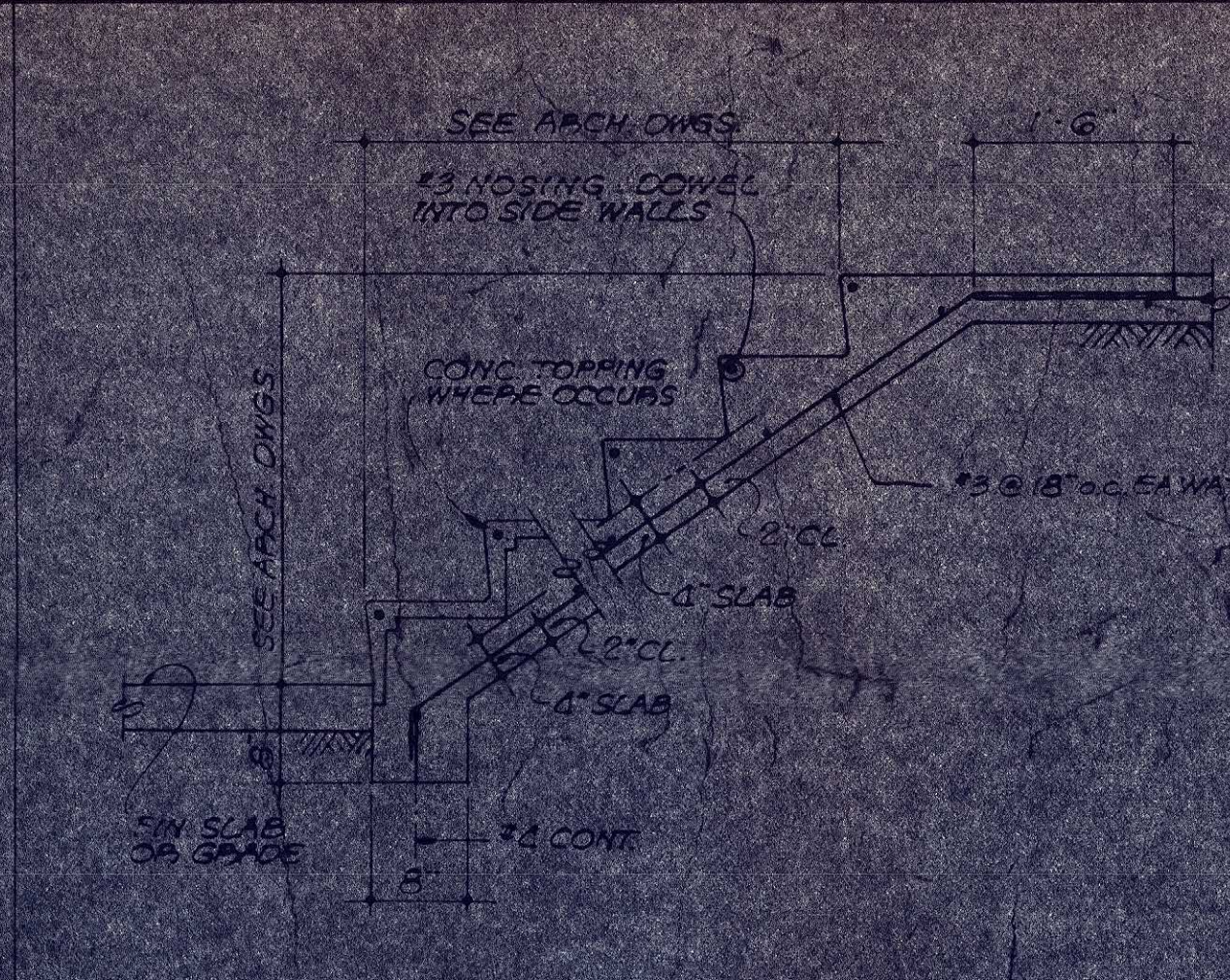
WELDING NOTES (15) (S.I.)



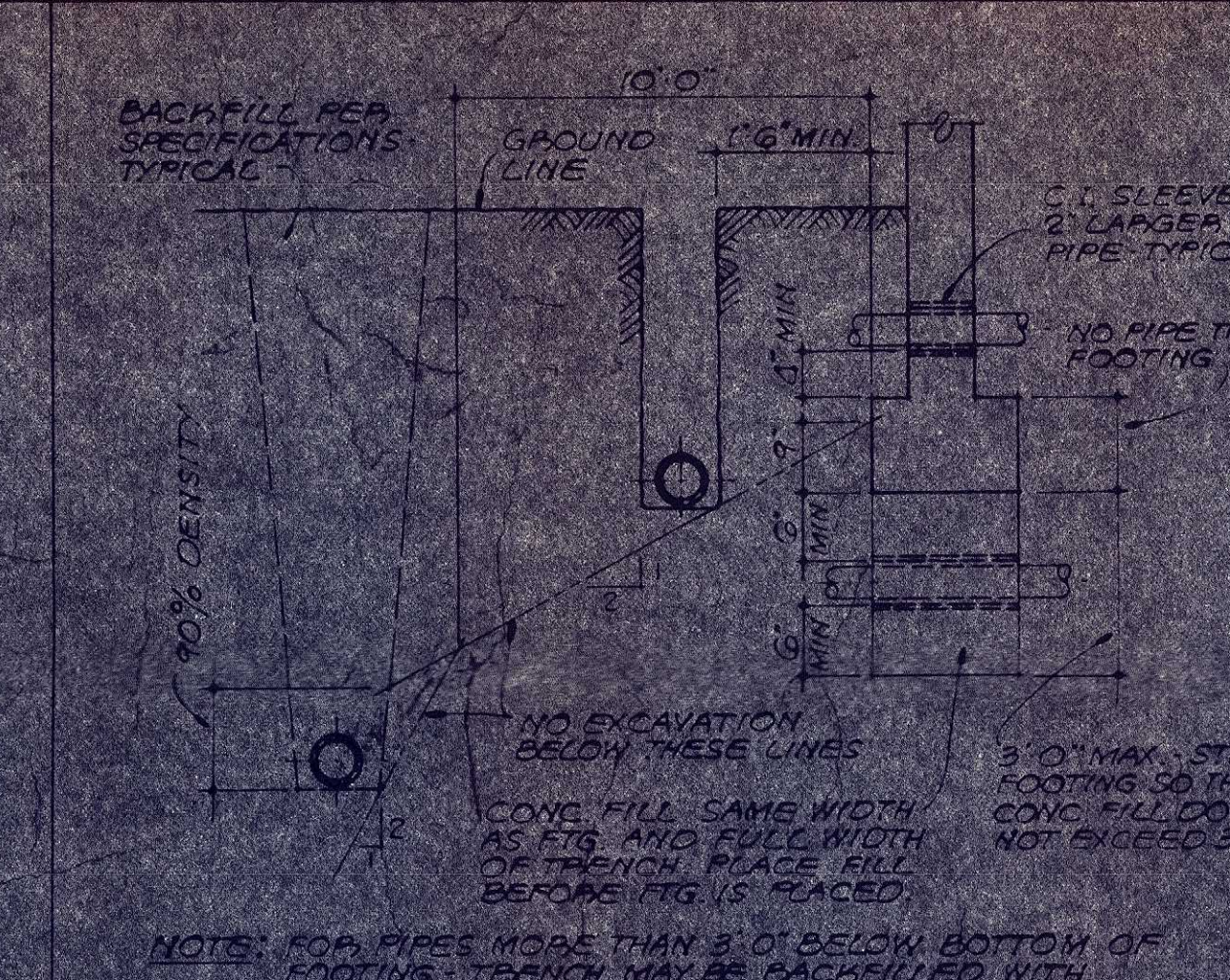
TYP. ANCHORAGE OF CONG. SLAB TO STEEL MEMBERS (16) (S.I.)



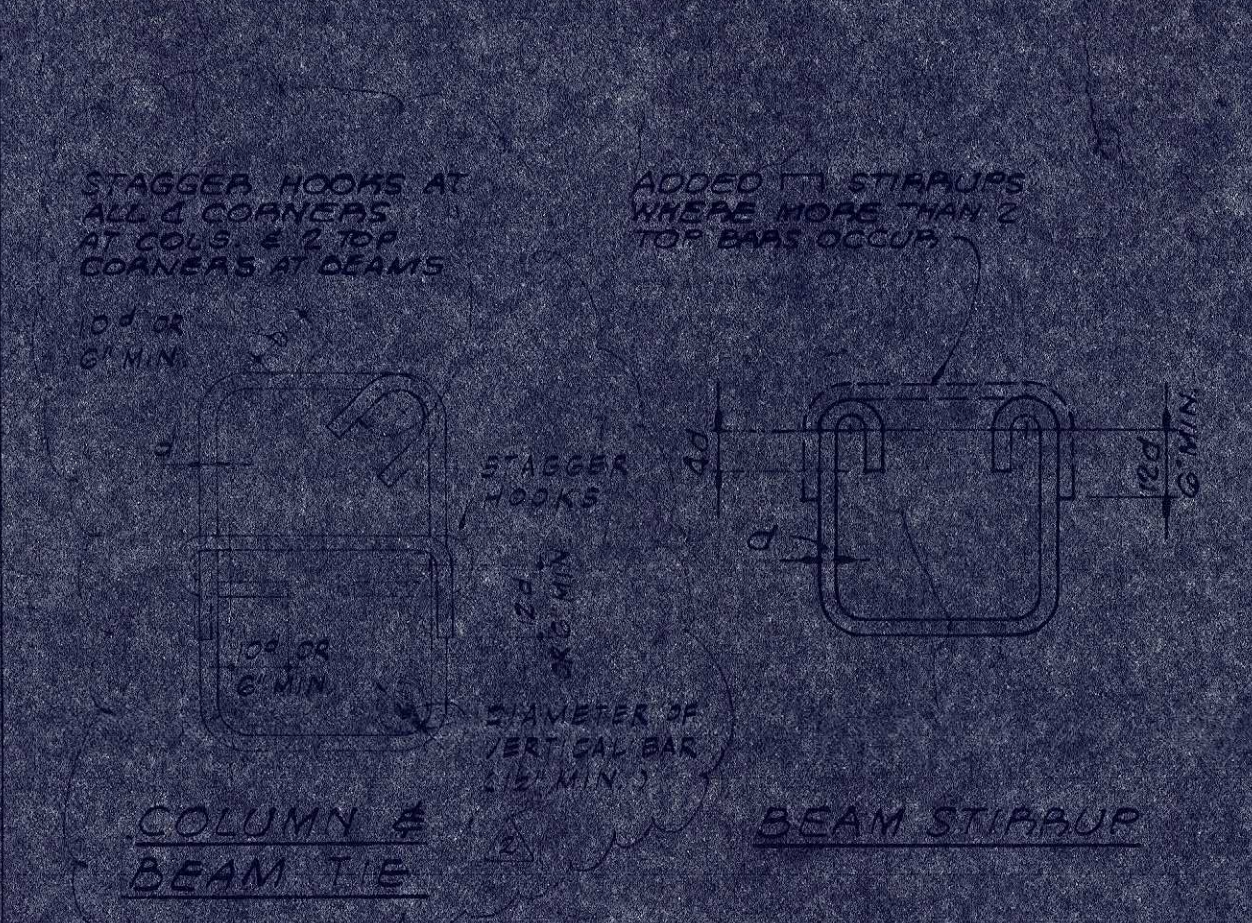
TYP. CONCRETE OR MASONRY OPENING REIN (12) (S.I.)



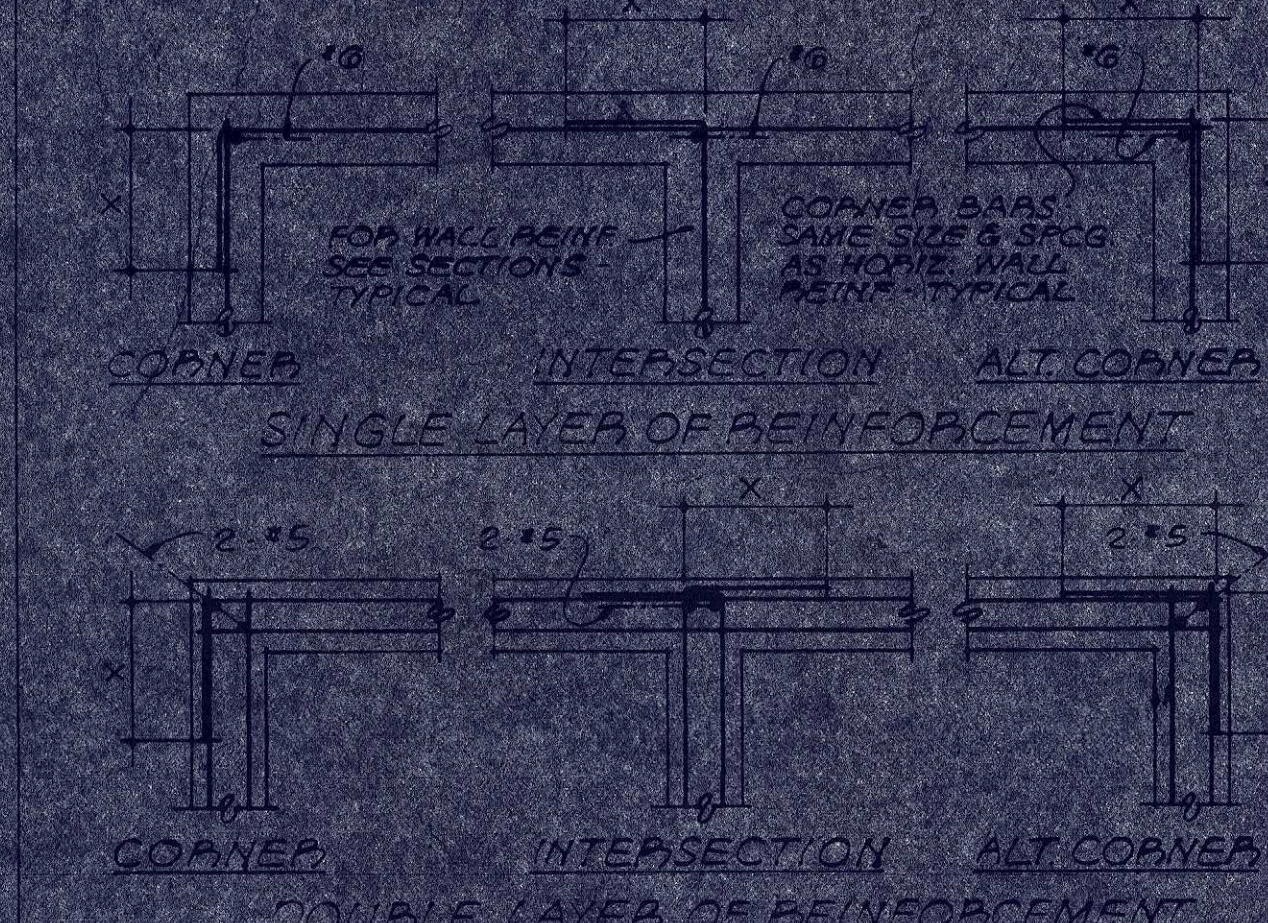
TYP. CONG. SLAB ON GRADE (5) (S.I.)



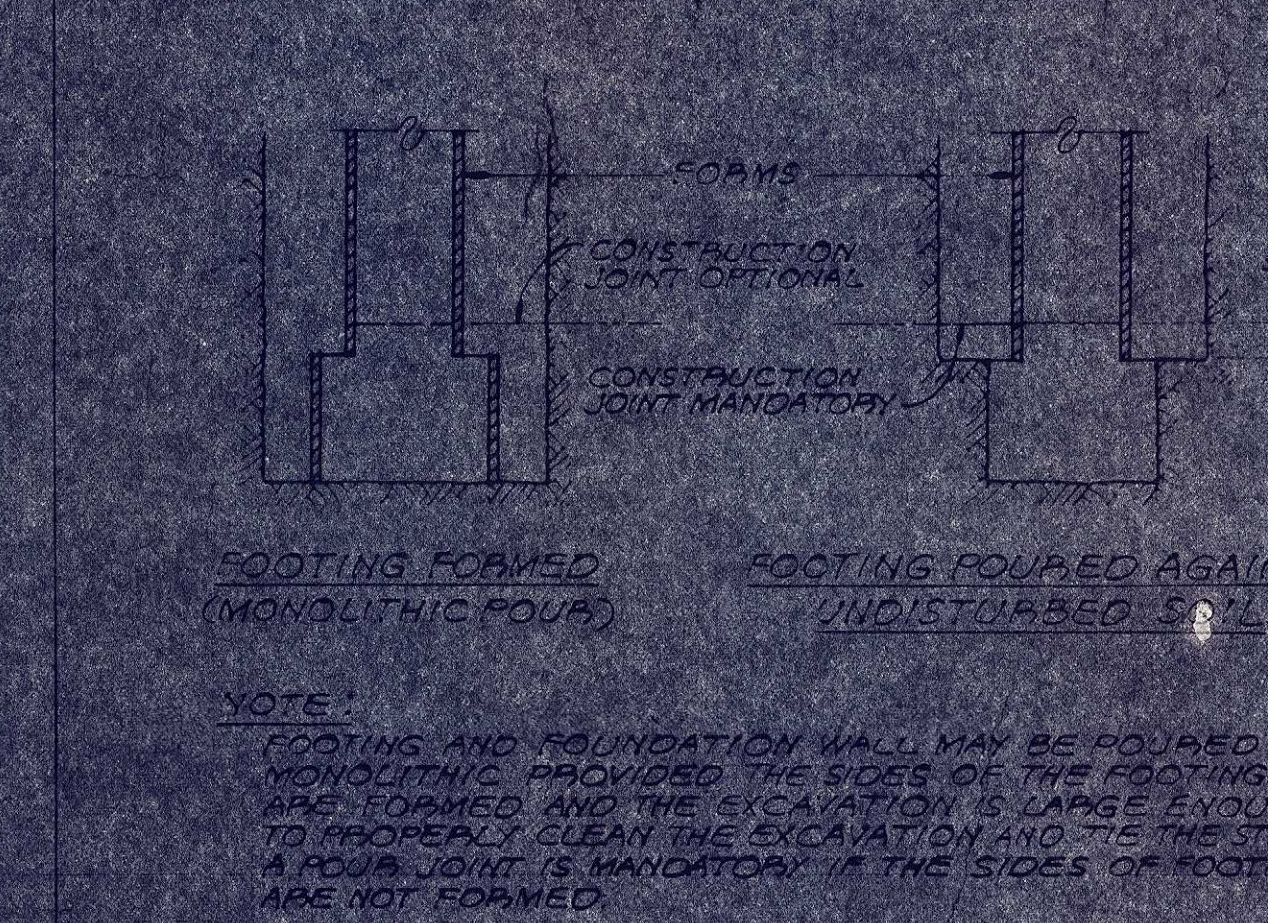
TYP. PIPE AND TRENCH DETAILS (51) (S.I.)



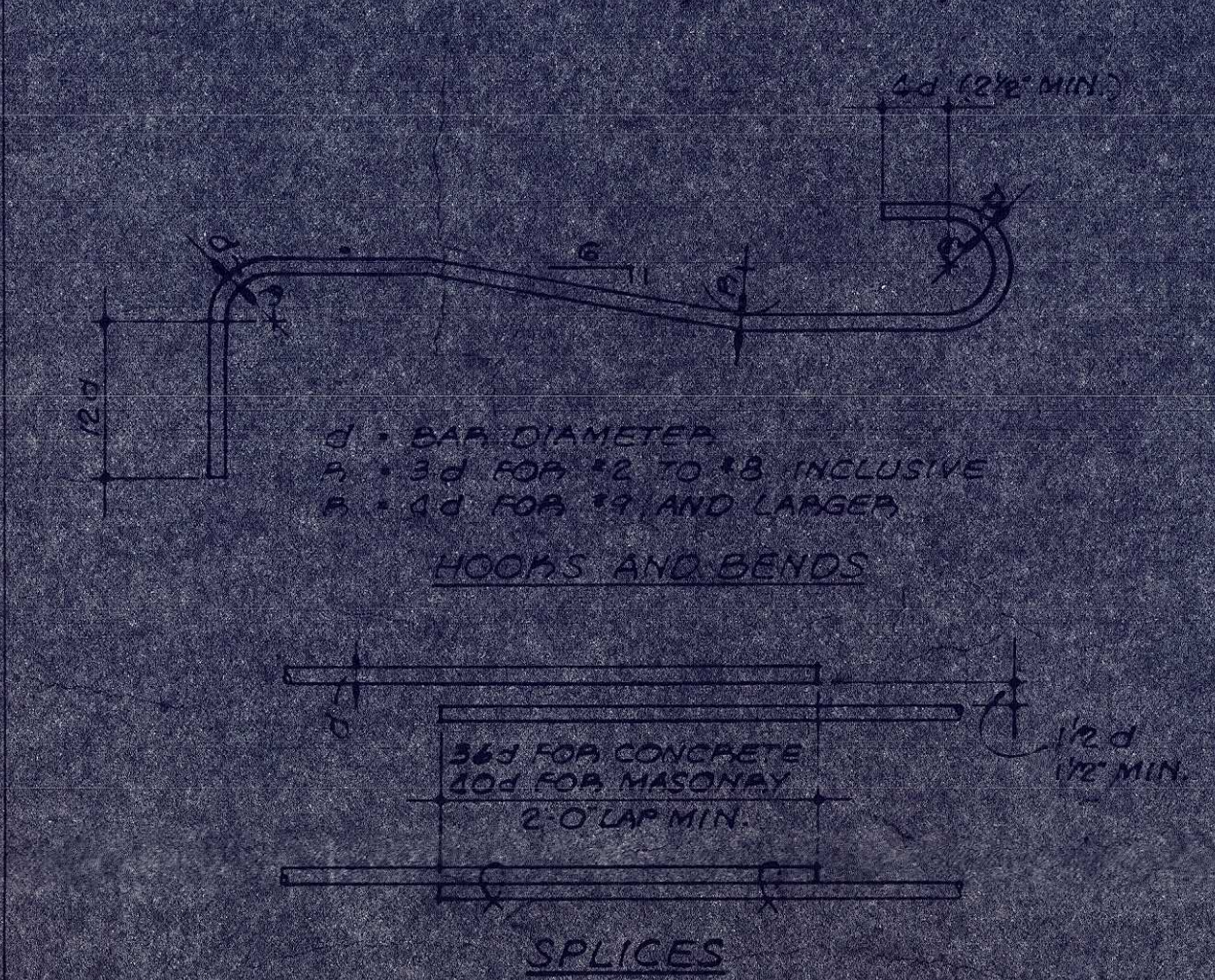
TYP. TIES AND STIRRUPS (11) (S.I.)



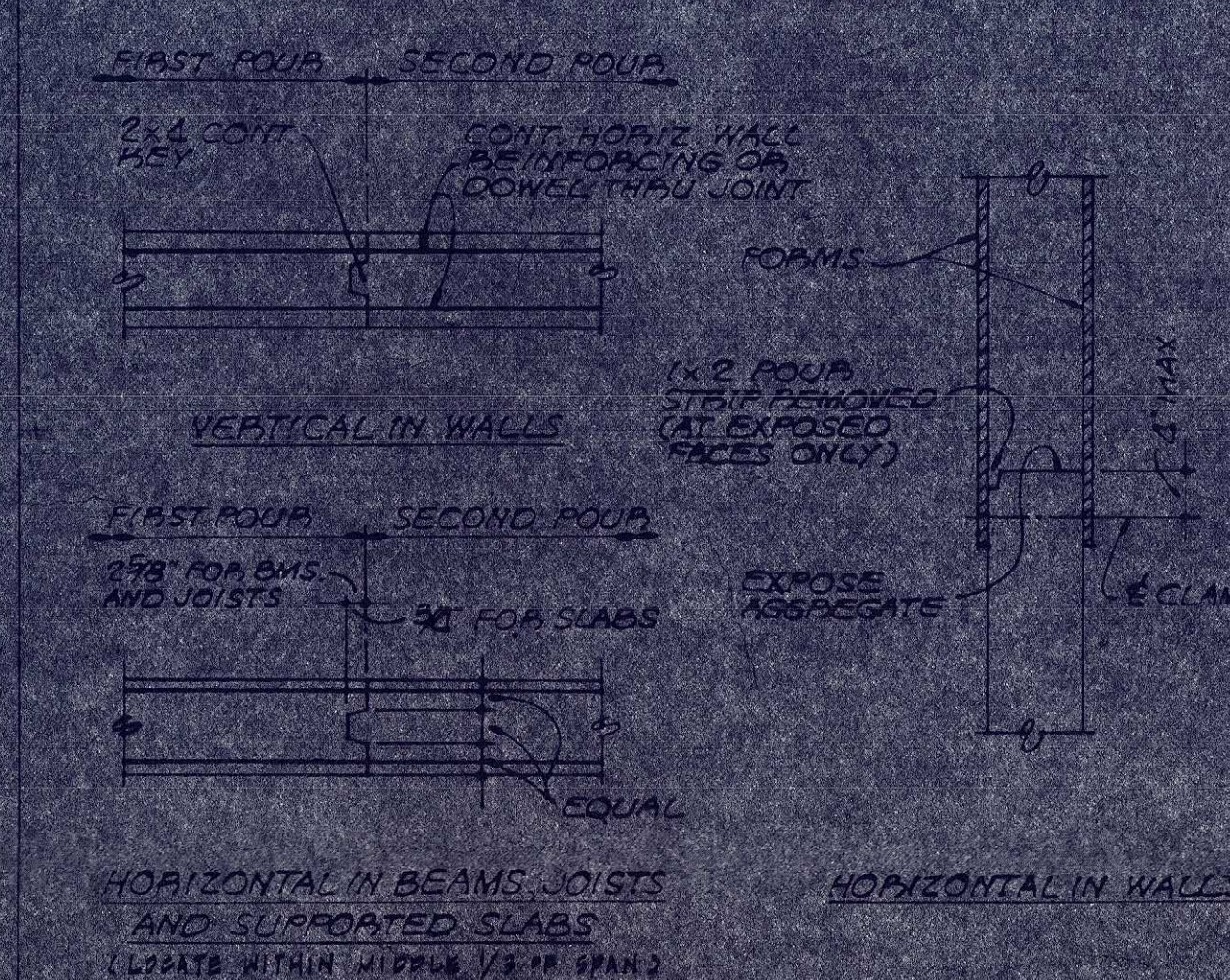
TYP. WALL REINFORCING DETAILS (6) (S.I.)



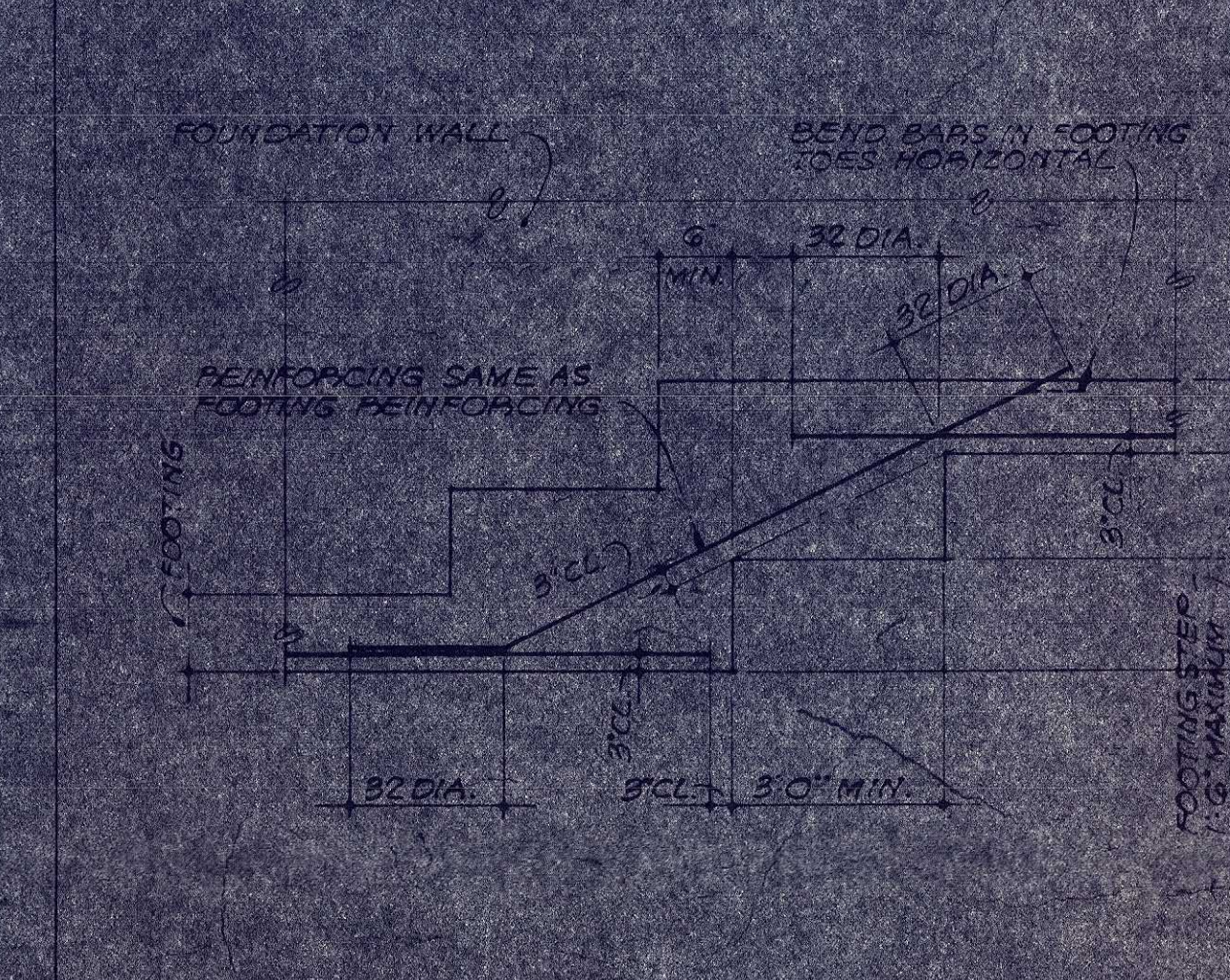
TYP. FOUNDATION FORMING (2) (S.I.)



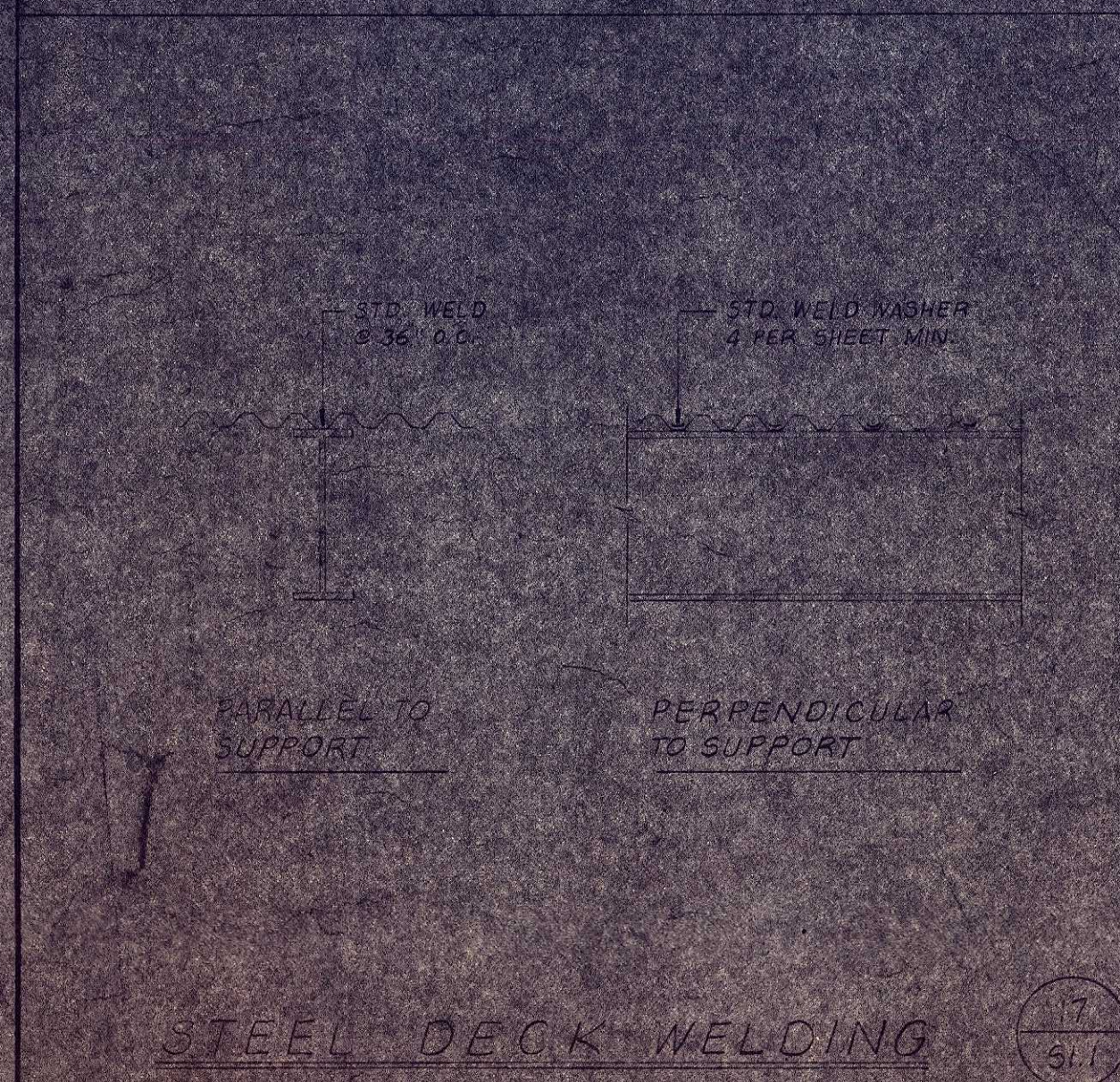
TYP. REINFORCING BAR DETAILS (16) (S.I.)



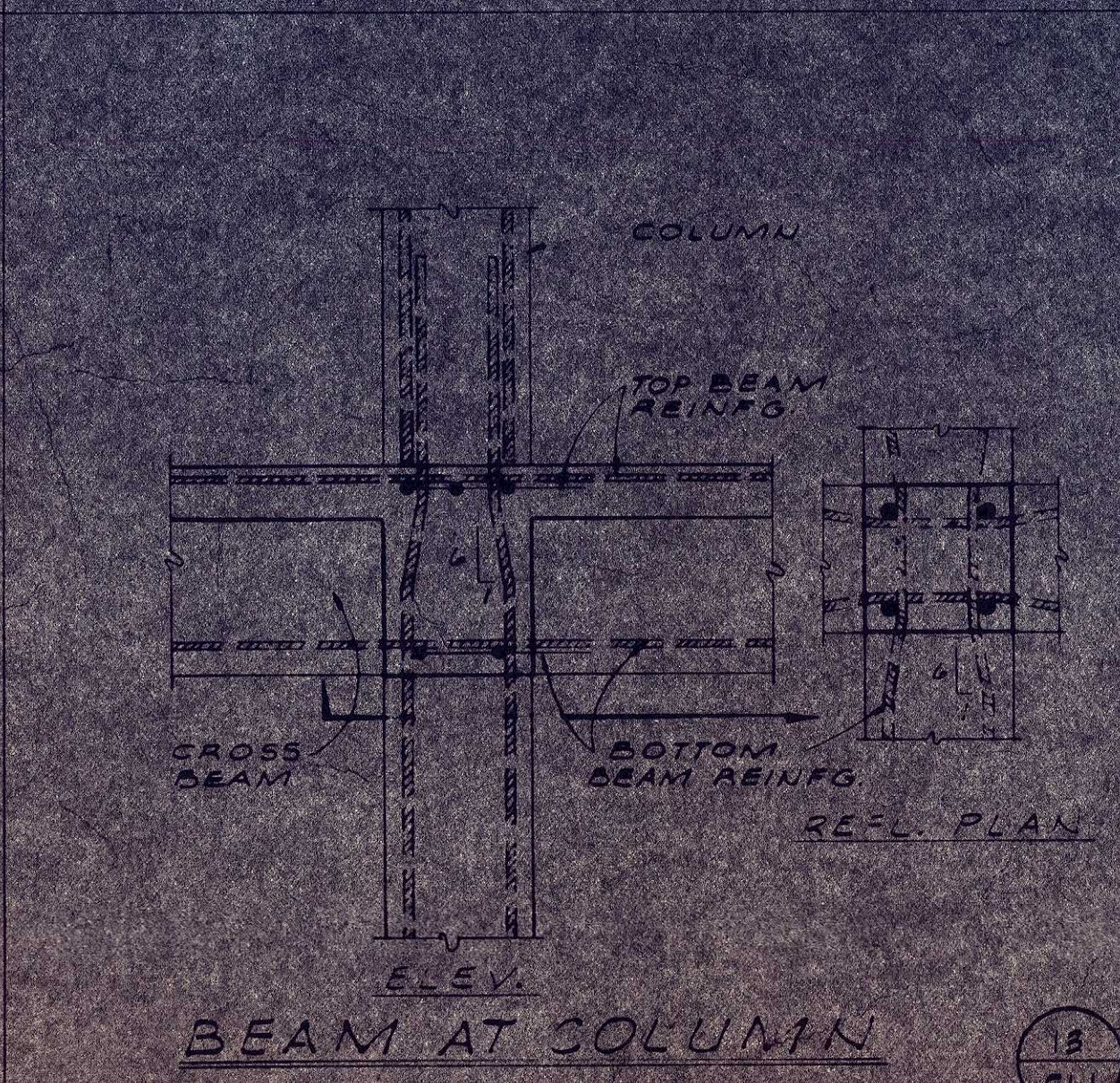
TYP. CONSTRUCTION JOINTS (7) (S.I.)



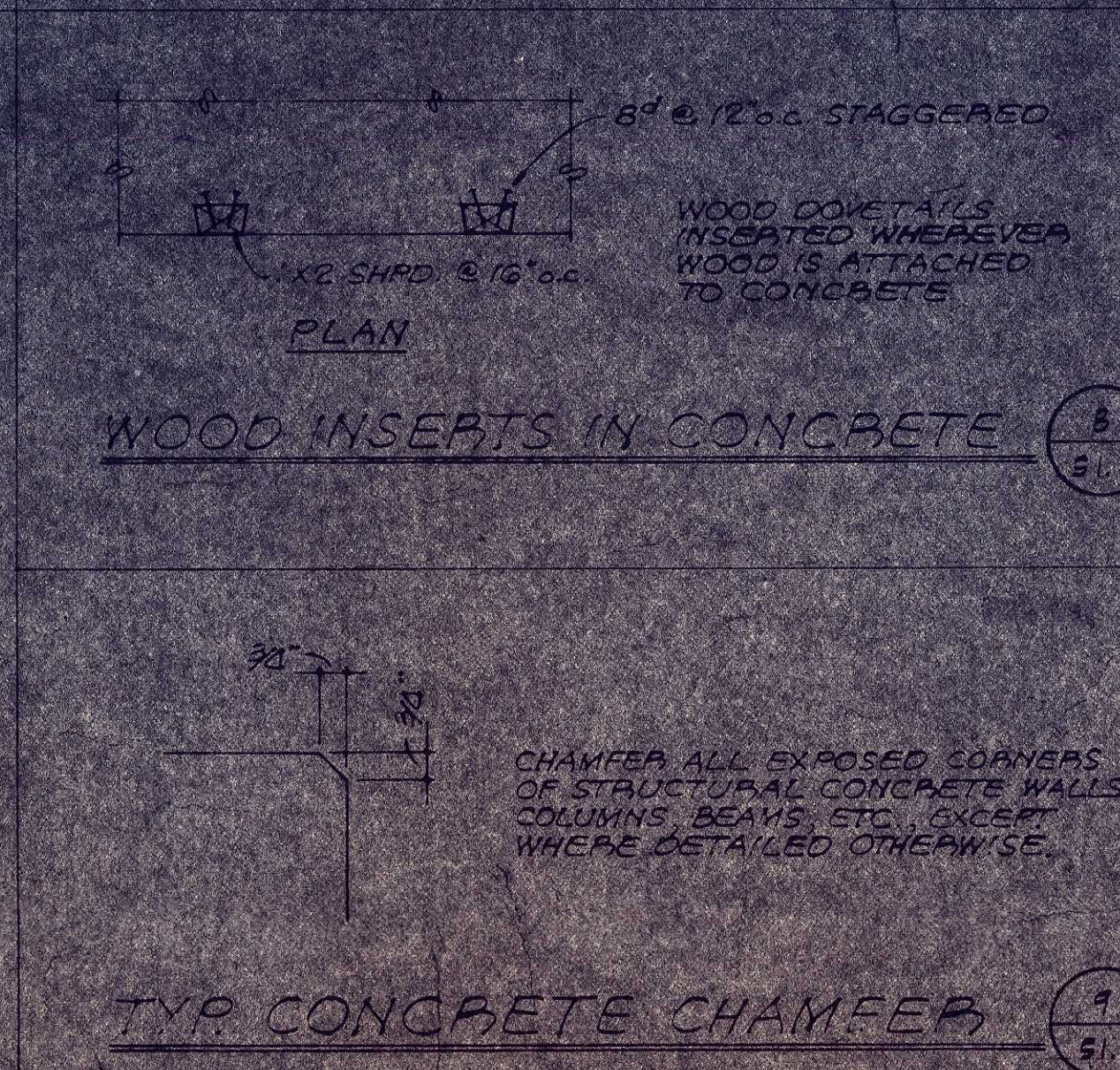
TYP. STEPPED FOOTING DETAIL (3) (S.I.)



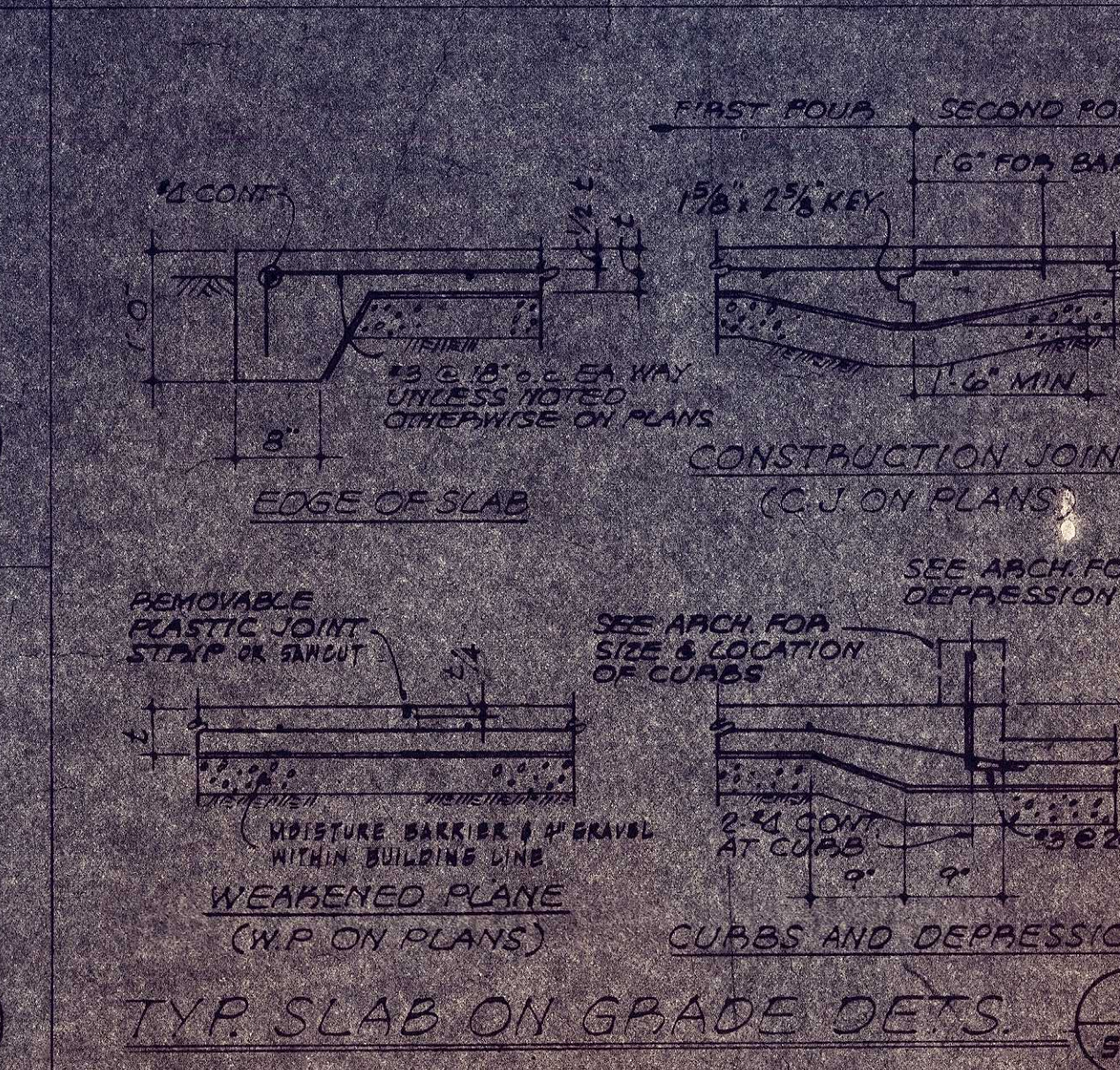
STEEL DECK WELDING (17) (S.I.)



BEAM AT COLUMN (18) (S.I.)



TYP. CONCRETE CHAMFER (9) (S.I.)



TYP. SLAB ON GRADE DETS (6) (S.I.)

GENERAL NOTES

GENERAL

- The following notes and typical details apply to all drawings, unless otherwise noted.
- Structural drawings shall be used in conjunction with Architectural, Mechanical and Electrical drawings.
- Any construction shall conform to the 1967 Uniform Building Code.
- Framing conditions not specifically shown shall be framed similar to the details shown for the respective materials.
- Provide openings and/or supports for mechanical equipment, ducts, piping, vents, as required. Refer to Architectural drawings and equipment not shown. All suspended equipment and ceilings to be provided with approved lateral bracing.
- Contractor must verify all dimensions before starting work. Architect shall be notified of any discrepancies.
- Notes and details on drawings shall take precedence over these general notes.

INSPECTION

- Continuous inspection by a registered Deputy Building Inspector employed by a Testing Laboratory shall be provided for all concrete (except slabs on grade) and all field welding.
- Continuous inspection of concrete shall include, but not be limited to, inspection of reinforcing steel sizes, length and proper placement, taking test cylinders and insuring proper placement and vibration of concrete.
- See specifications for any additional inspection and/or test requirements.
- The contract structural drawings and specifications represent the finished structure. Unless otherwise shown, they do not indicate the method of construction. The contractor shall supervise and direct the work and he shall be solely responsible for all construction means, methods, techniques, sequences and procedures. Observation visits to the site by Johnson & Nielsen Associates will represent a general inspection of the project and not a detailed inspection of the construction procedures required for same. Any support services performed by Johnson & Nielsen Associates during construction shall be distinguished from continuous and detailed inspection services which are furnished by others. These support services performed by the engineer, whether or not during construction, shall be performed prior to, during or after completion of construction and are performed solely for the purpose of assisting in quality control and in achieving conformance with contract drawings and specifications; but they do not guarantee contractor's performance and shall not be construed as supervision of construction.

CONCRETE & REINFORCING STEEL

- General: All materials, workmanship and construction shall conform to the applicable local code and the latest edition of ACI 318, Building Code Requirements for Reinforced Concrete.
- Aggregates: Natural sand and rock aggregates shall conform to ASTM C-33-61.
- Concrete mix shall be designed by Method II for ultimate strength type concrete.
- The strength and type of concrete shall be as follows:

Structural slabs and beams (typical)	150 pcf, f'c = 4000 psi U.S.C.
Structural slabs and beams (typical) <td>150 pcf, f'c = 4000 psi U.S.C.</td>	150 pcf, f'c = 4000 psi U.S.C.
Columns (typical) <td>150 pcf, f'c = 4000 psi U.S.C.</td>	150 pcf, f'c = 4000 psi U.S.C.
Walls & Foundations <td>150 pcf, f'c = 4000 psi U.S.C.</td>	150 pcf, f'c = 4000 psi U.S.C.
Exposed Architectural Concrete <td>150 pcf, f'c = 4000 psi U.S.C.</td>	150 pcf, f'c = 4000 psi U.S.C.
Slab-on-grade <td>150 pcf, f'c = 3000 psi</td>	150 pcf, f'c = 3000 psi
Concrete topping & fill slabs <td>150 pcf, f'c = 4000 psi</td>	150 pcf, f'c = 4000 psi

- Lap all bars in beams and walls a minimum of 36 bar diameters unless otherwise noted. (See Note 13.)
 - Splices of horizontal reinforcing in walls shall be staggered.
 - Lap vertical column reinforcing a minimum of 36 bar diameters for all bars on shallow. (See Note 13.)
 - Dowels for columns and walls shall be same size and spacing as the column or wall reinforcing, as noted above.
- Minimum concrete cover: The following minimum clear distances between any reinforcing steel and face of concrete shall be maintained unless otherwise indicated.

Slabs on grade	4"
Columns	4"
Walls above grade - exterior face	1 1/2"
Walls above grade - interior face	1 1/2" (2" at Arch. Conc.)
Beams and girders	1 1/2"
Supported slabs	3/4"
Concrete below grade - poured against earth	4"
- Reinforcing steel in beams, girders, columns, structural slabs, walls and footings shall conform to ASTM A-615, Grade 60.
 - Reinforcing steel for stirrups, ties, slabs on grade and non-structural items shall conform to ASTM A-615, Grade 40.
- Welding of reinforcing steel shall conform to AWS D12.1 using proper low hydrogen electrodes.
- Reinforcing fabric shall conform to the latest ASTM A-705.
- No mesh or grids shall be placed in concrete slabs or walls unless specifically detailed.
 - Refer to Architectural drawings and structural drawings for moulds, ornaments, ornaments, clips and grounds to be cast in concrete.
- All concrete topping and fill slabs shall be reinforced with 6" x 6" 10-10 welded steel wire fabric, unless noted otherwise.
- See Architectural drawings for all location of special aggregate Architectural concrete.
- 30 lbs for all #14 and #18 bars shall be butt welded (full penetration).

STRUCTURAL STEEL

- All fabrication and erection shall conform to the latest Standard Edition of AISC, Specifications for the Design, Fabrication and Erection of Structural Steel for Buildings.
- All structural steel shall conform to ASTM A-36.
- All pipe shall be ASTM A-53, Grade B.
- All tubular steel sections shall conform to ASTM A-36.
- Anchor bolts and unfinished bolts shall conform to ASTM A-307.
- All structural steel shall be fabricated or erected under shop drawings have been reviewed by the Structural Engineer.
- No field cutting or burning of structural steel will be permitted without written approval of the Structural Engineer.
- All welding shall be performed by certified welders using the electric arc process and approved coated rods, or using the submerged arc process with automatic welding (Grade SAW-1). All shop welding shall be done in the shop of an approved fabricator. Low hydrogen electrodes shall be used in welding of reinforcing bars.

MASONRY

- All concrete blocks shall be lightweight units conforming to ASTM C-90, Grade A.
- Reinforcing steel shall conform to ASTM A-615, Grade 40.
- Reinforcing steel shall be a minimum of 40 bar diameters at all splices unless otherwise noted.
- See specifications for grout and mortar.

MINIMUM WALL REINFORCING Unless noted otherwise, use the following minimum wall reinforcing:

Masonry

- 8" wall - 1 layer #4 @ 24" o.c. vertical
- 12" wall - 2 layer #4 @ 24" o.c. vertical

Concrete

- 12" wall - 1 layer #4 @ 18" o.c. vert., #4 @ 12" o.c. horiz.
- 16" wall - 1 layer #4 @ 18" o.c. vert., #4 @ 12" o.c. horiz.
- 20" wall - 2 layer #4 @ 18" o.c. vert., #4 @ 12" o.c. horiz.
- 24" wall - 2 layer #4 @ 18" o.c. vert., #4 @ 12" o.c. horiz.

TESTS

- All cement, reinforcing steel and structural steel shall be firm tested stock. Copies of test reports shall be furnished to the local Building Department and the Architect.
- All concrete shall be tested and inspected by a laboratory or testing agency. Test and inspection reports shall be submitted in accordance with the specifications.

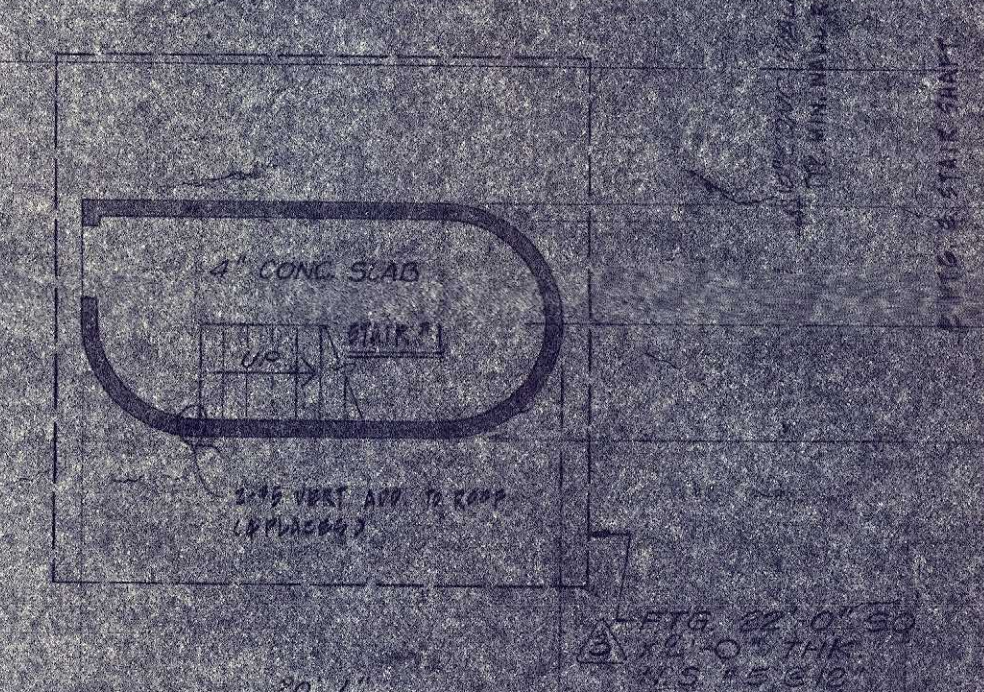
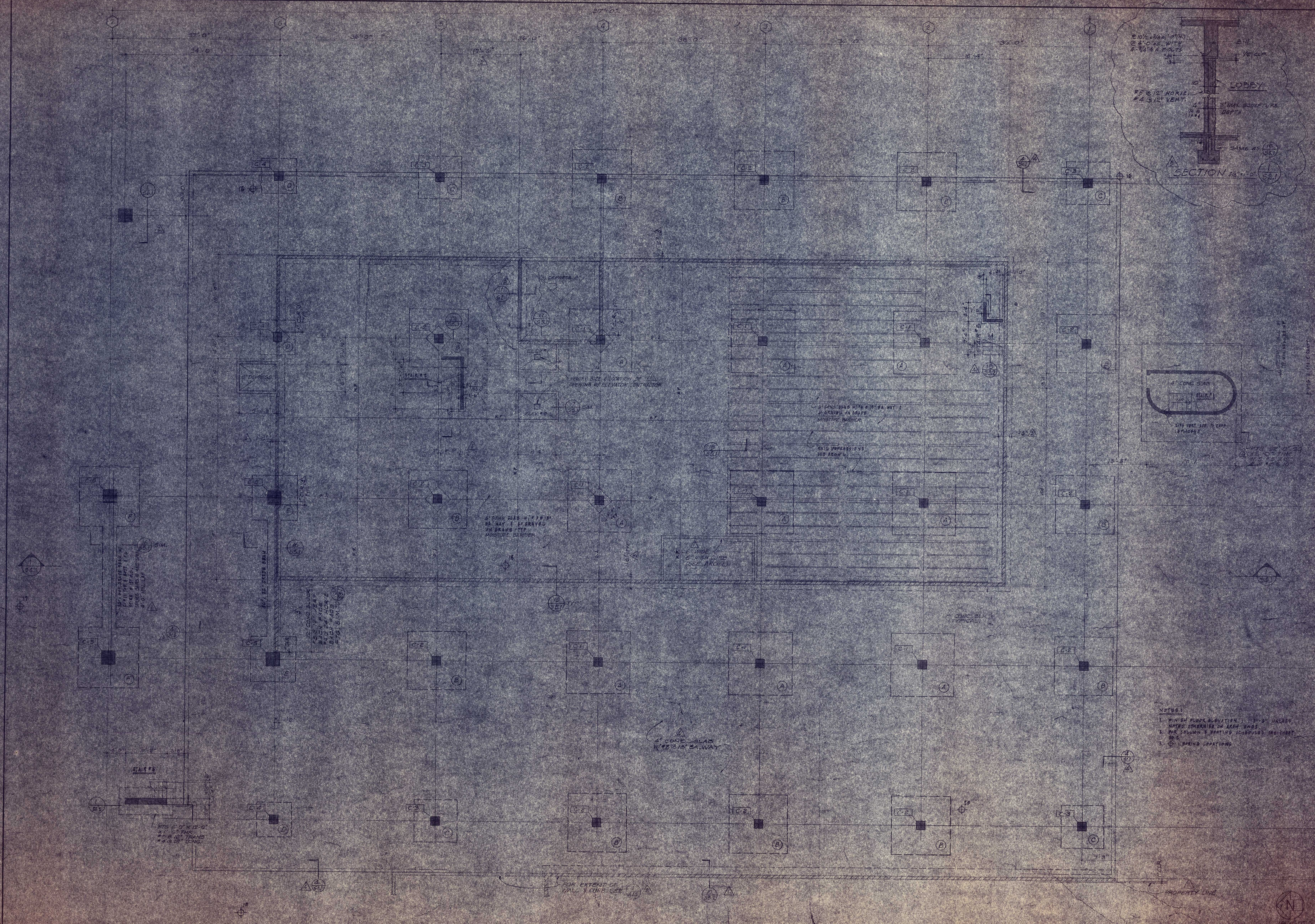
FOUNDATION

- Refer to Report of Foundation Investigation by Leroy Randall and Associates, dated Nov. 12, 1970.
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- All excavation shall be inspected and approved by the Foundation Engineer prior to placing any reinforcing steel.
- All filling, backfilling and compacting operations shall be done under the supervision of the Foundation Engineer and must be compacted to a minimum density of 90% in accordance with the specifications.
- All excavation shall be hand-cleaned prior to pouring concrete. An adequate fresh air supply and temporary casing shall be provided in all caisson excavations for the safety of personnel.
- All subgrade for slabs on grade shall be inspected and approved by the Foundation Engineer prior to placing any reinforcement.

CAST-IN-PLACE CONCRETE

- Concrete shall be poured in a continuous manner.
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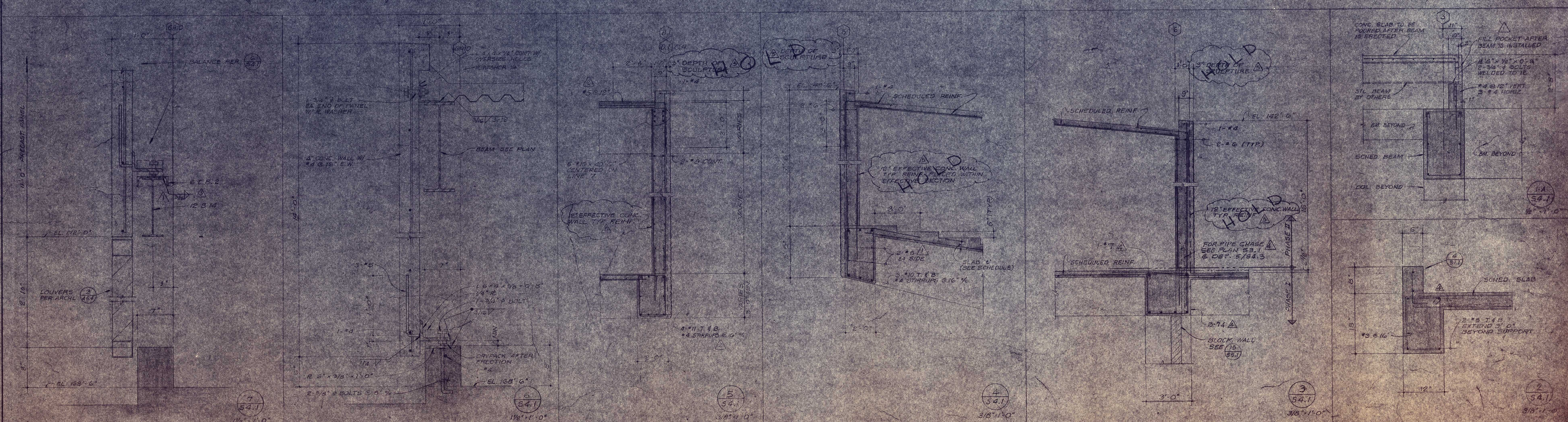
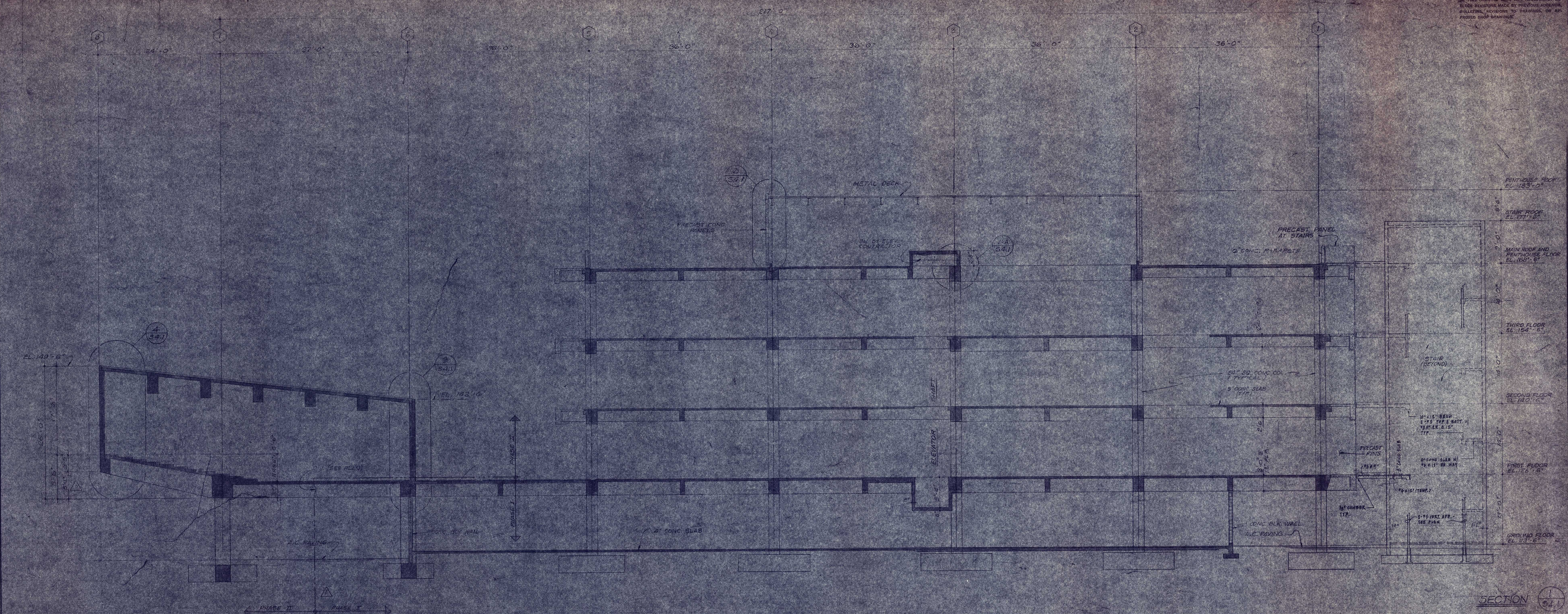
NOTES:
1. THIS DRAWING IS FOR THE CITY OF INGLEWOOD AND IS NOT TO BE USED FOR ANY OTHER PROJECT.
2. ALL DIMENSIONS ARE IN FEET AND INCHES.
3. ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE CITY OF INGLEWOOD SPECIFICATIONS.



- NOTES:
1. FINISH FLOOR ELEVATION: 112'-0" UNLESS NOTED OTHERWISE ON ASH DRAWING.
 2. FOR COLUMN & BEAM SCHEDULES SEE SHEET 10-6.
 3. @ SPACING LOCATIONS.

<table><tr><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td>1-10-71</td><td>REV. BULK WALL TO CONE</td><td>TR</td><td>AS</td><td>1</td><td>1-10-71</td><td>MODIFICATIONS ISSUED BY ADDENDA #1</td><td>TR</td><td>AS</td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>2-22-71</td><td>MODIFICATIONS ISSUED BY ADDENDA #2</td><td>TR</td><td>AS</td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td>11-11-71</td><td>BLOG DEPT. CORRECTIONS</td><td>TR</td><td>AS</td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td></td><td></td><td>11-13-71</td><td>ADDED SLAB ON GRADE ADDITION OF STAIR #5</td><td>TR</td><td>AS</td></tr><tr><td>NO.</td><td>DATE</td><td>REVISION</td><td>BY</td><td>CHK</td><td>NO.</td><td>DATE</td><td>REVISION</td><td>BY</td><td>CHK</td></tr></table>										1										2										3										4	1-10-71	REV. BULK WALL TO CONE	TR	AS	1	1-10-71	MODIFICATIONS ISSUED BY ADDENDA #1	TR	AS	5							2-22-71	MODIFICATIONS ISSUED BY ADDENDA #2	TR	AS	6							11-11-71	BLOG DEPT. CORRECTIONS	TR	AS	7							11-13-71	ADDED SLAB ON GRADE ADDITION OF STAIR #5	TR	AS	NO.	DATE	REVISION	BY	CHK	NO.	DATE	REVISION	BY	CHK	<table><tr><td>CONSULTANT</td><td>PROJECT GROUP</td><td>APPROVED BY</td><td>PROJECT</td></tr><tr><td>JOHNSON & NIELSEN ASSOC. CONSULTING STRUCTURAL ENGINEERS 7402 RD. FIGUEROA LOS ANGELES 90041 AREA CODE 213 556-2287</td><td>DESIGNER PROJECT CAPTAIN DRAFTSMAN CHECKER</td><td>PRODUCTION PROJECT ARCHITECT ENGINEER</td><td>CITY OF INGLEWOOD CIVIC CENTER LIBRARY INGLEWOOD CALIFORNIA</td></tr><tr><td colspan="4">THIS DRAWING IS NOT TO BE CONSIDERED FINAL UNTIL ALL THE REQUIRED SIGNATURES OF APPROVAL HAVE BEEN AFFIXED.</td></tr></table>		CONSULTANT	PROJECT GROUP	APPROVED BY	PROJECT	JOHNSON & NIELSEN ASSOC. CONSULTING STRUCTURAL ENGINEERS 7402 RD. FIGUEROA LOS ANGELES 90041 AREA CODE 213 556-2287	DESIGNER PROJECT CAPTAIN DRAFTSMAN CHECKER	PRODUCTION PROJECT ARCHITECT ENGINEER	CITY OF INGLEWOOD CIVIC CENTER LIBRARY INGLEWOOD CALIFORNIA	THIS DRAWING IS NOT TO BE CONSIDERED FINAL UNTIL ALL THE REQUIRED SIGNATURES OF APPROVAL HAVE BEEN AFFIXED.				<table><tr><td>SHEET TITLE</td><td>PROJECT</td></tr><tr><td>PARKING LEVEL & FOUNDATION PLAN</td><td>CITY OF INGLEWOOD CIVIC CENTER LIBRARY INGLEWOOD CALIFORNIA</td></tr></table>		SHEET TITLE	PROJECT	PARKING LEVEL & FOUNDATION PLAN	CITY OF INGLEWOOD CIVIC CENTER LIBRARY INGLEWOOD CALIFORNIA	<p>Charles Luckman Associates</p> <p>Planning Architecture Engineering 9220 Sunset Boulevard, Los Angeles, California 90069</p>	
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NOTES: CONTRACTOR TO VERIFY THAT DISTANCE BETWEEN THE EXISTING WALLS ARE ACCURATELY IN-CLUSE REVISIONS MADE BY PREVIOUS ADDENDUM, INCLUDING ADDITIONS TO DRAWINGS, OR APPROVED SHOP DRAWINGS.

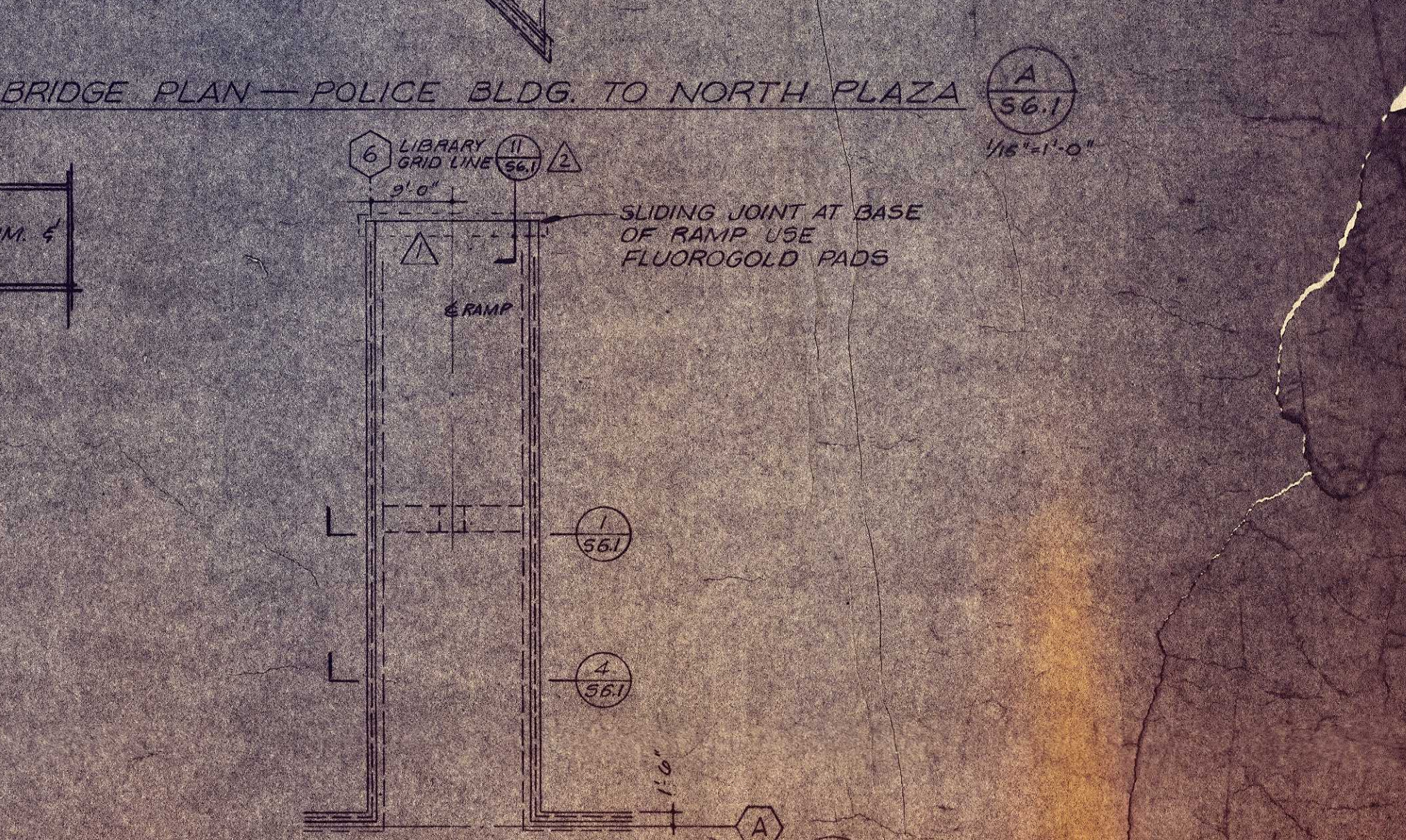
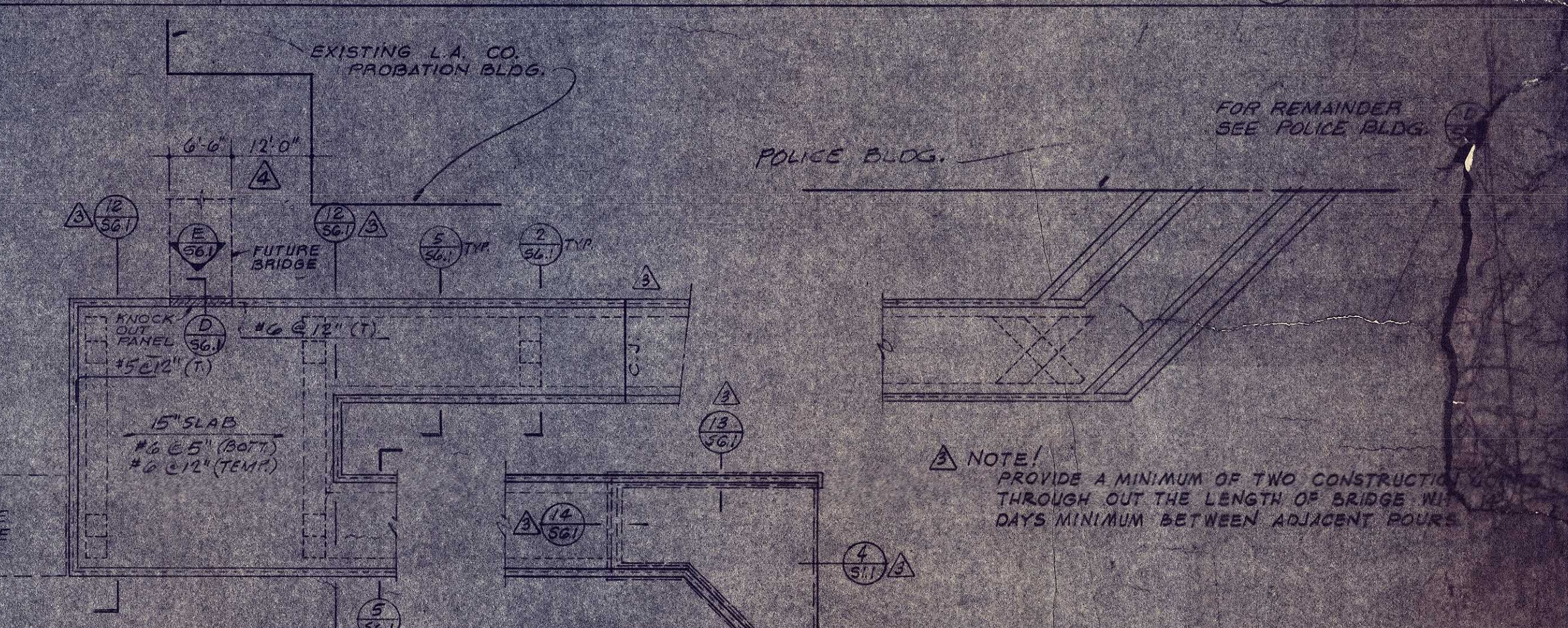
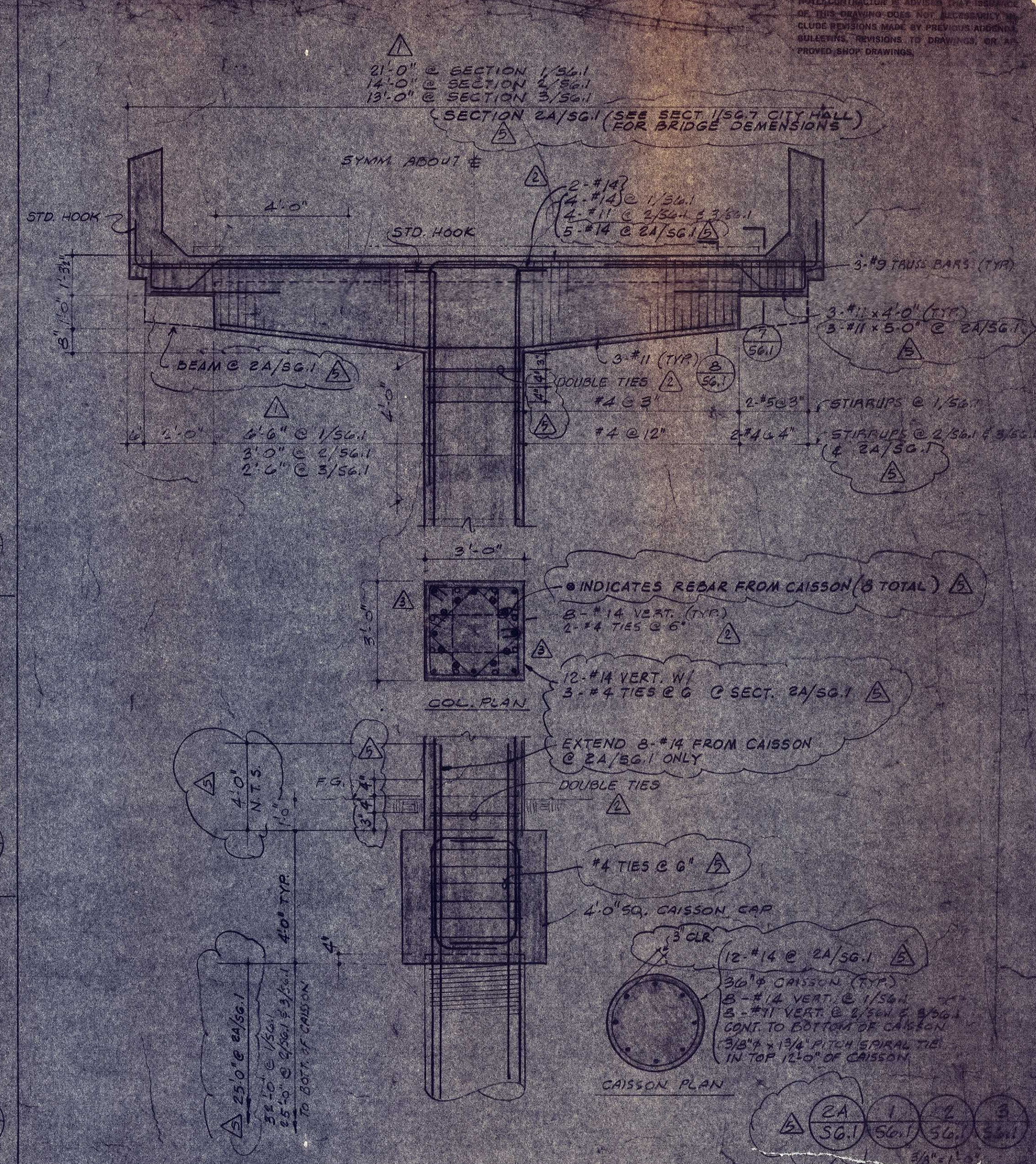


NO.	DATE	REVISION	BY	CHK	NO.	DATE	REVISION	BY	CHK
1	12-17-71	REV. SCULPTURED WALL	J.B.	R.S.	45	12-17-71	MODIFICATIONS ISSUED BY ADDENDUM #1	K.G.	45
2					46	12-22-71	MODIFICATIONS ISSUED BY ADDENDUM #2	K.G.	45
3					47	1-18-72	BLOG DEPT. CORRECTION	J.B.	45
4					48	1-17-72	MISCELLANEOUS	T.S.	4P

CONSULTANT	PROJECT GROUP	APPROVED BY	PROJECT
JOHNSON & NIELSEN ASSOC. CONSULTING STRUCTURAL ENGINEERS 2402 NO. FIGUEROA LOS ANGELES 90041 AREA CODE 213 356-0287	DESIGNER: G.P. PROJECT CAPTAIN: A.S. DRAFTSMAN: K.G. CHECKER: J.S.	PRODUCTION PROJECT ARCHITECT ENGINEER	CITY OF INGLEWOOD CIVIC CENTER LIBRARY INGLEWOOD CALIFORNIA

SHEET TITLE	CHARLES LUCKMAN ASSOCIATES
BUILDING CROSS SECTIONS	Planning Architecture Engineering 9220 Sunset Boulevard - Los Angeles, California 90069

SHEET NO.	54.1
DATE	1-20-71

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