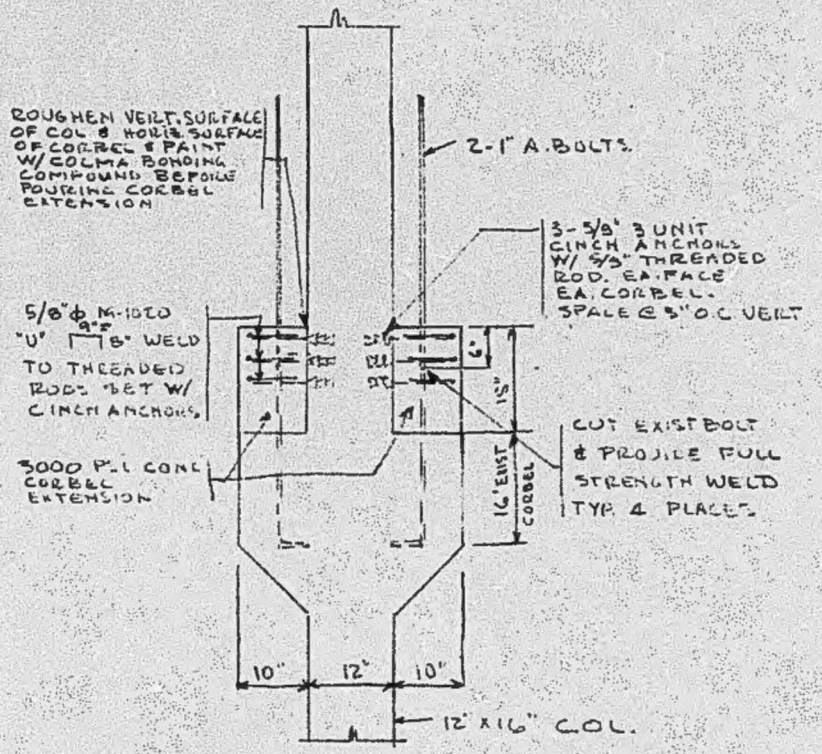
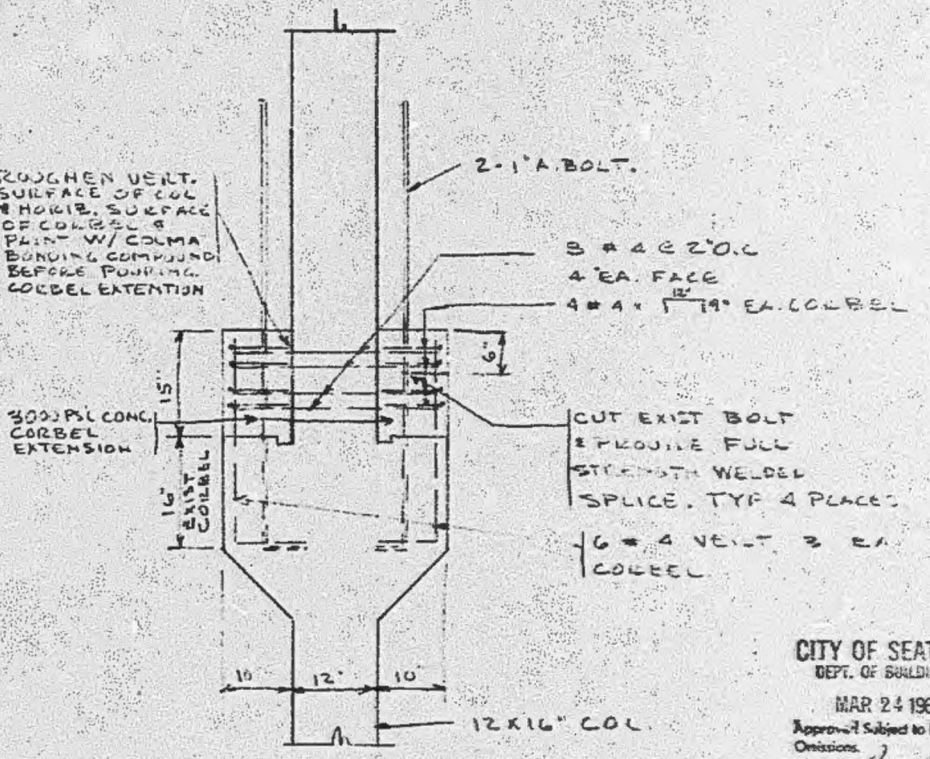


CORBEL EXTENSION 3 REQ'D.

SCALE 3/4"=1'-0"



CORBEL EXTENSION 3 REQ'D

SCALE 3/4"-1'-0"

CITY OF SEATTLE
DEPT. OF BUILDINGS
MAR 24 1965
Approved Subject to Errors and Omissions.
BY 12515

DESIGNED HOFMEISTER	RAVENNA BOULEVARD PROFESSIONAL BUILDING
DRAWN HOFMEISTER	FOR: W. R. SCOTT
CHECKED Hodd	444 NE RAVENNA BLVD SEATTLE WN.
DATE 3-22-65	HARVEY R. DODD & ASSOCIATES CONSULTING ENGINEERS SEATTLE, WASHINGTON
DWG. No. SK-3	

HARVEY R. DODD REGISTERED PROFESSIONAL ENGINEER

COMPUTATION SHEET

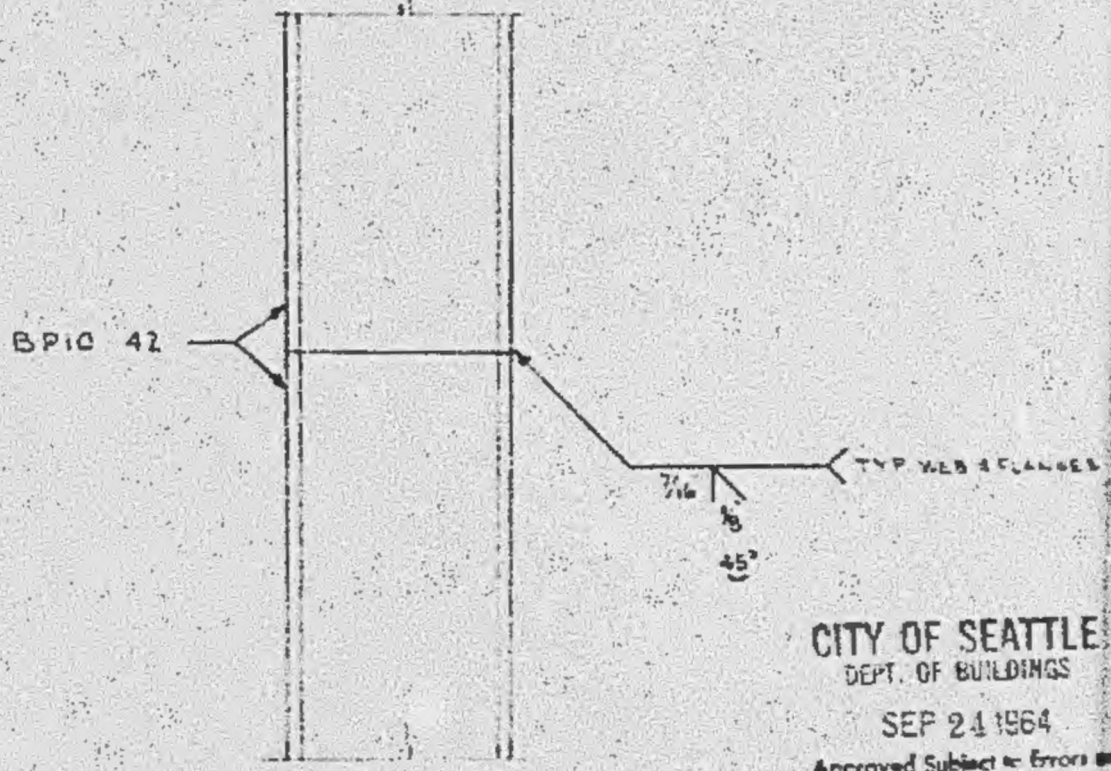
HARVEY R. DODD & ASSOCIATES
CONSULTING ENGINEERS
SEATTLE, WASHINGTON

JOB NO. _____ SHEET SK-2 OF 1

JOB NAME: RAVENNA BLVD. PROFESSIONAL BUILDING
444 RAVENNA BLVD. SEATTLE, WASH.

COMP. BY: F. HOFFMAN DATE 9-22-64 CHK. BY _____

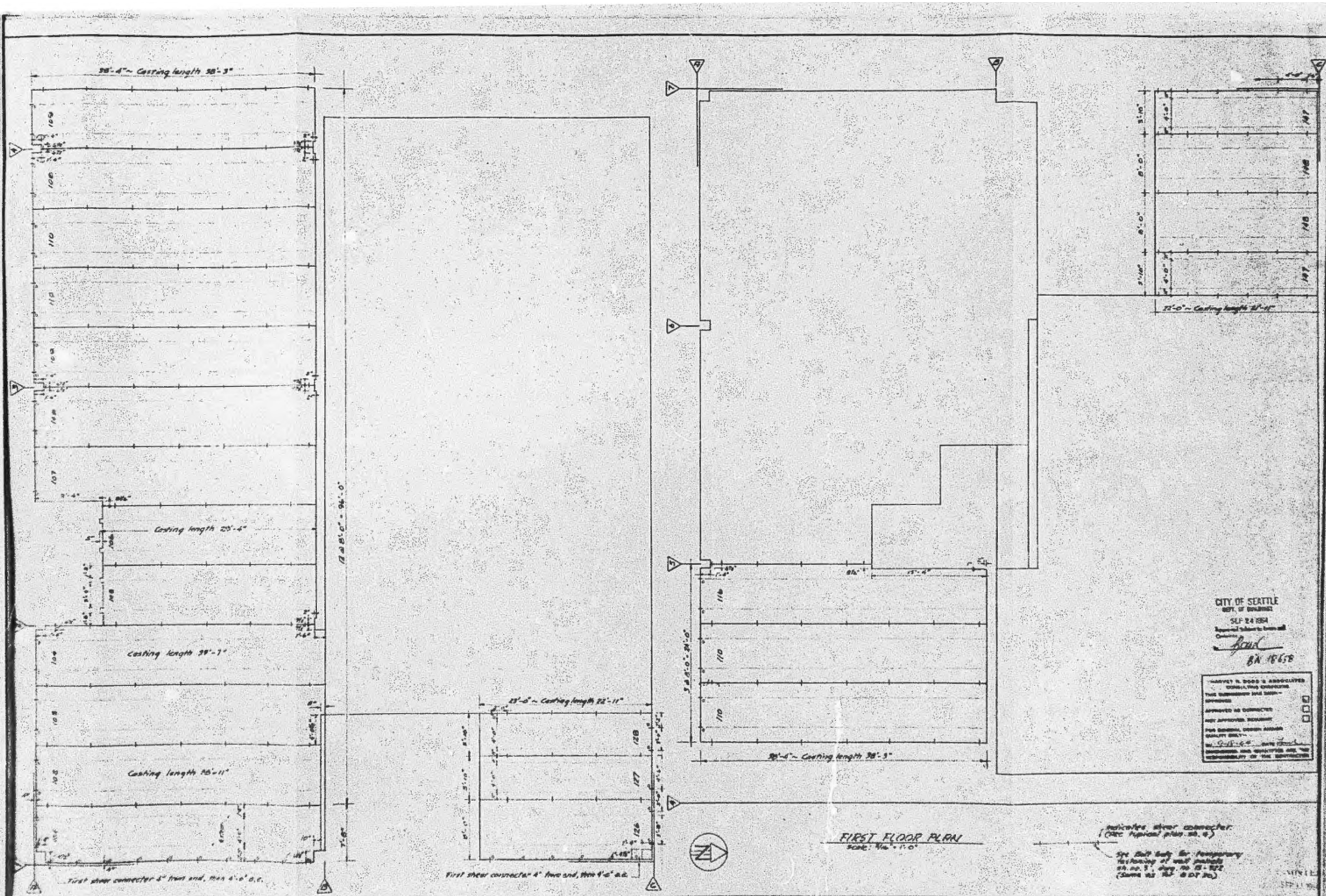
BUILDING PERMIT NO
BN 18658



CITY OF SEATTLE
DEPT. OF BUILDINGS
SEP 24 1964
Approved Subject to Errors and
On
BN 18658

STEEL PILE SPLICE DETAIL
SCALE 1½"=1'0"

HARVEY R. DODD
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER



No.	Revisions	By	Appd.	Date

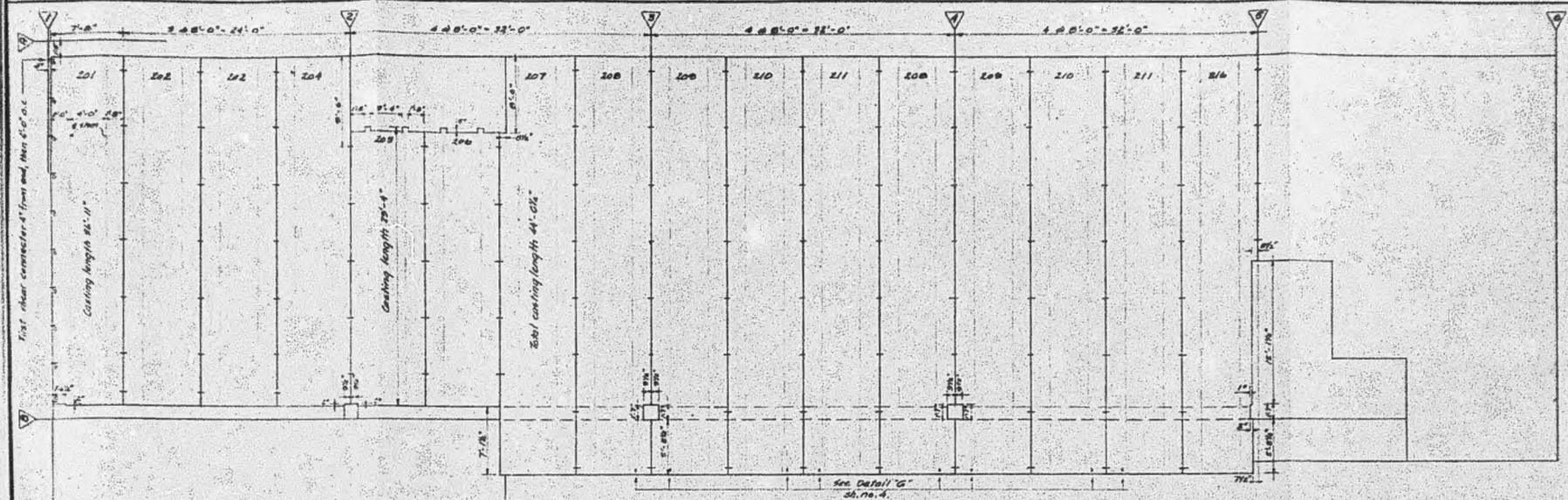
Design
Drawn E.T.F.
Checked R.E.M.
Approved

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1138 PORT OF TACOMA ROAD
TACOMA 9, WASHINGTON

LAYOUT PLAN ~ 8 DT 16
FIRST FLOOR.

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

Date 9-22-64
Dwg. No. L-16
Proj. No. 15-52-1



TYPICAL FLOOR PLAN – 2nd, 3rd, 4th.
Scale: 1/16" = 1'-0"

Indicates shear connectors (See Typical Plan Sh 4.)

See Built note for temporary fastening of wall panels Sh no 3 - Det 12 (Same as Det 12b).

CITY OF SEATTLE
DEPT. OF BUILDINGS
SEP 24 1964
Approved
By 18658

HARVEY A. GOOD & ASSOCIATES
CONSULTING ENGINEERS
THIS SUBMISSION INCLUDES
APPROVED
APPROVED AS CORRECTED
NOT APPROVED, RESUBMIT
FOR GENERAL SCHEME REVISION ONLY
SIGNED
BY
DATE

PARTIAL

No.	Revisions	By	Appd.	Date

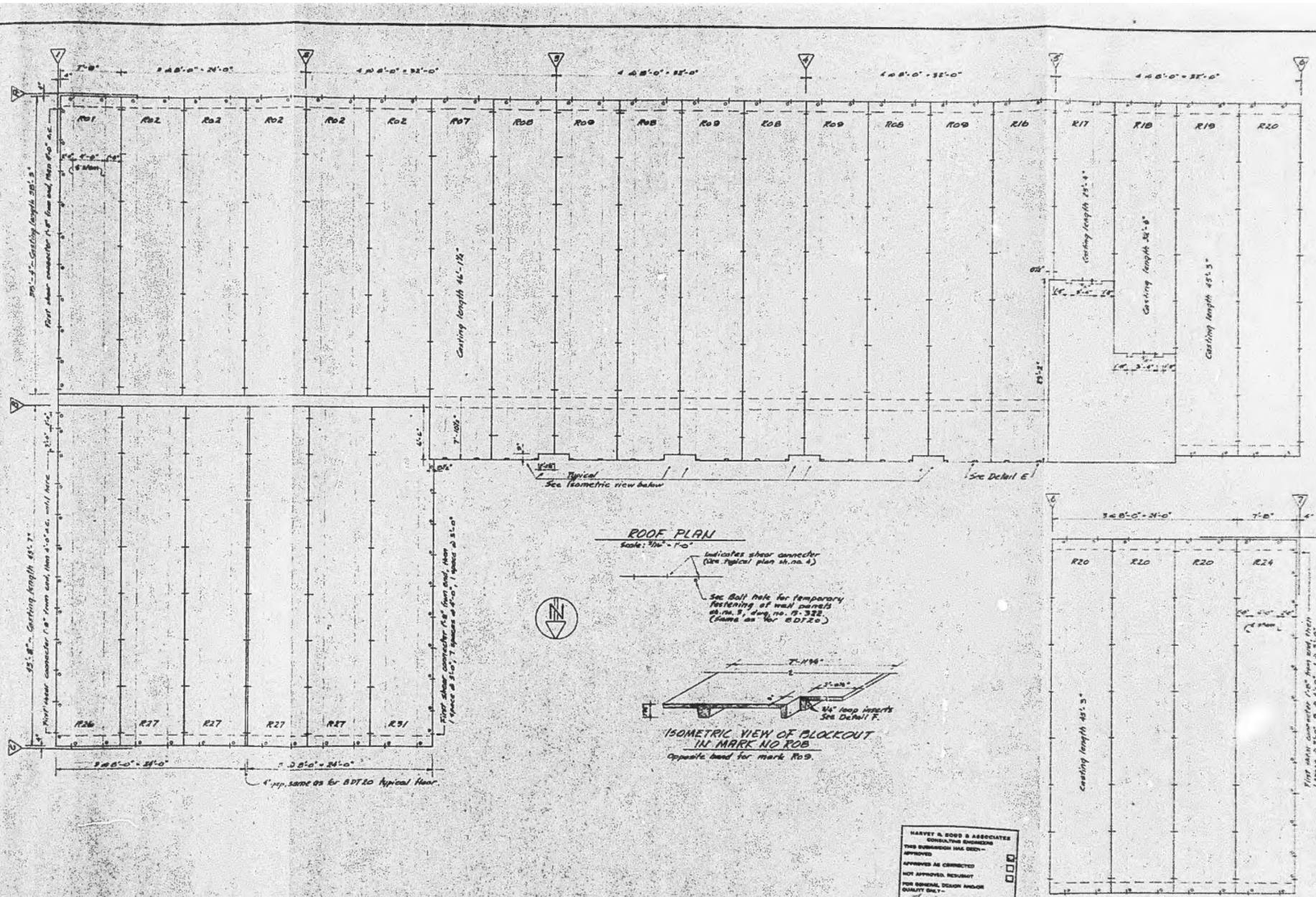
Design
Drawn ETF
Checked RFM
Approved

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1138 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

LAYOUT PLAN – 8DT16
TYPICAL FLOOR PLAN – 2nd, 3rd, 4th

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

Date 10-29-64
Sh. No. 2 of 4
Dwg. No. 10-363



ROOF PLAN
Scale: 3/16" = 1'-0"

Indicates shear connector (See Typical plan sh. no. 4)

See Bolt note for temporary fastening of wall panels sh. no. 9, dwg. no. A-328. (Frame as for BDT20)

ISOMETRIC VIEW OF BLOCKOUT IN MARK NO R08
Opposite hand for mark R09.

HARVEY A. BOOD & ASSOCIATES
CONSULTING ENGINEERS
THIS SUBMISSION HAS BEEN—
APPROVED
APPROVED AS CORRECTED
NOT APPROVED. RESUBMIT
FOR GENERAL DESIGN AND/OR QUALITY ONLY—
BY ... DATE 2/18/65
DIMENSIONS AND QUANTITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR

No.	Revisions	By	Appr'd.	Date

Drawn: ETE
Checked: REM
Approved:

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1102 PORT OF TACOMA ROAD
TACOMA 1, WASHINGTON

LAYOUT PLAN - BDT16
ROOF PLAN

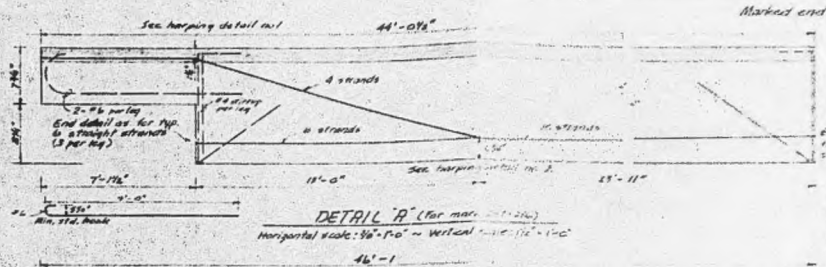
RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

Date: 2-18-65
Sh. No. 7
Dwg. No. A-328

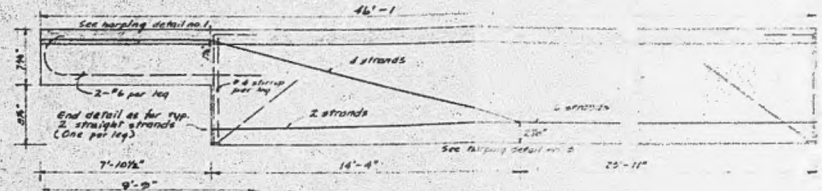
CITY OF SEATTLE
DEPT. OF ENGINEERING
APPROVED
SUPERINTENDENT OF BUILDINGS

SUMMARY.

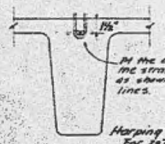
Mark	No	Casting length	Strands ½"	Harping x	Harping y	Sleeves 2'-8"	Sleeves 3'-8"	Welded Assembly	Shear Conn.	Blockouts	Remarks
101	1	78'-11"	10	—	—	—	4	4	19	1–10"ø x 1'-6½" 1–4"ø x 1'-4½"	7'-8" wide
102	1	"	10	—	—	—	4	"	16		
103	1	39'-7"	10	—	—	—	4	"	16		
104	1	"	10	—	—	—	4	"	14	1–8"ø x 6'-0½" 1–6½" x 1'-6" 1–6½" x 1'-4"	
105	1	29'-4"	6	—	—	—	—	"	10	1–2" x 9½" 1–5" x 3'-4"	Additional blockouts: 2–5" x 1'-8"
106	1	"	6	—	—	—	—	"	10	1–5" x 3'-4" 2–5" x 1'-8"	
107	1	38'-3"	10	—	—	—	4	"	14	1–8½" x 9'-4"	
108	2	"	10	—	—	—	4	"	16	1–2" x 9½" 1–6½" x 1'-6"	
109	2	"	10	—	—	—	4	"	16	1–2" x 9½" 1–6½" x 1'-4"	
110	4	"	10	—	—	—	4	"	16	—	
116	1	"	10	—	—	—	4	"	13	1–6½" x 1'-4" 1–9½" x 15'-4" 1–12" x 2'-"	
126	1	22'-11"	6	—	—	—	—	"	12	1–1'-4" x 1'-4½"	
127	1	"	6	—	—	—	—	"	9	—	5'-10" wide
128	1	"	6	—	—	—	—	"	11	—	5'-10" wide
147	2	21'-11"	6	—	—	—	—	"	12	—	5'-10" wide
148	2	"	6	—	—	—	—	"	12	—	
201	3	36'-11"	10	—	—	—	4	"	17	1–2" x 1'-6½"	7'-8" wide
202	6	"	10	—	—	—	4	"	14	—	
204	3	"	10	—	—	—	4	"	12	1–2" x 9½"	
205	3	29'-4"	6	—	—	—	—	"	10	1–2" x 9½" 1–5" x 3'-4"	Additional blockouts: 2–5" x 1'-8"
206	3	"	6	—	—	—	—	"	10	1–5" x 3'-4" 2–5" x 1'-8"	
207	3	44'-0½"	10	See Detail A	—	—	2	"	13	1–8½" x 8'-0"	Detail D. Sleeves in marked end
208	6	"	10	"	—	—	2	"	15	1–9½" x 1'-7"	Detail D " "
209	6	"	10	"	—	—	2	"	15	1–9½" x 1'-7"	" "
210	6	"	10	"	—	—	2	"	16	—	" "
216	3	"	10	"	—	—	2	"	12	1–10½" x 4'-0" 1–8½" x 18'-11" 1–8½" x 1'-7"	Detail D "
R01	1	38'-3"	6	—	—	—	—	"	19	—	Detail C at marked end 1'-8" wide
R02	5	"	6	—	—	—	—	"	16	—	Detail C at marked end
R07	1	46'-11½"	6	See Detail B	—	—	—	"	17	—	Detail C at marked end Detail D, E, F.
R08	4	"	6	"	—	—	—	"	18	1–9" x 2'-0½"	"
R09	4	"	6	"	—	—	—	"	18	1–9" x 2'-0½"	"
R16	1	"	6	"	—	—	—	"	14	1–8½" x 25'-2"	"
R17	1	29'-4"	6	—	—	—	—	"	10	1–5" x 3'-4" 2–5" x 1'-8"	Detail C at marked end
R18	1	32'-6"	6	—	—	—	—	"	12	1–5" x 3'-4" 2–5" x 1'-8"	"
R19	1	45'-3"	8	—	—	—	—	"	18	—	Detail C both ends
R20	4	"	8	—	—	—	—	"	20	—	"
R24	1	"	8	—	—	—	—	"	24	—	Detail C both ends 1'-8" wide
R26	1	43'-7"	8	—	—	—	—	"	22	—	Detail C at marked end
R27	4	"	8	—	—	—	—	"	18	—	"
R31	1	"	8	—	—	—	—	"	20	1–8½" x 6'-6"	"
211	6	44'-0"	10	See Detail A	—	—	2	"	16	—	Detail D Sleeves in marked end Detail G " "



DETAIL "A" (for mark [illegible])
Horizontal scale: 3/16"=1'-0" – Vertical scale: 1/2"=1'-0"

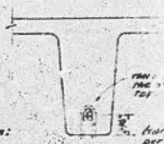


DETAIL "B" (for mark R07-R16)
Horizontal scale: 3/16"=1'-0" – Vertical scale: 1/2"=1'-0"



Harping load per stem:
For 207-216: 4.88 k
For R07-R16: 3.9 k

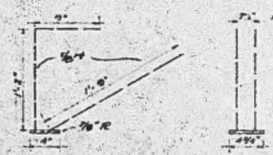
NO.1.



NO.2.

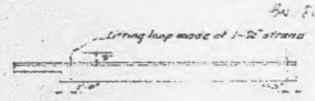
NO.3

HARPING DETAILS
Scale: 1/2" = 1'-0"



WELDED ASSEMBLY
Scale: 1½" = 1'-0"

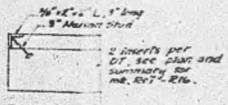
DETAIL C
Scale: 3/4" = 1'-0"



DETAIL "D"
NO SCALE

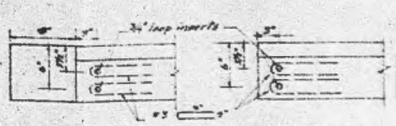
GENERAL NOTES

1. Same general notes as for BDT20.
2. Place lifting loops on 1'-0" from ends, except for DTs with overhang. (See Detail D.)
3. Bunk all DTs under lifting loops.
4. Finishing:
   All roof DTs (R01–R31) have light steel trowel.
   All DTs with overhang have light steel trowel on overhanging area.
   All others have rough screed finish.



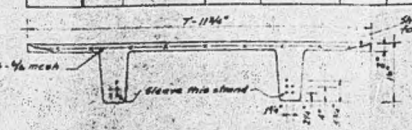
DETAIL "E"
Scale: 3/4" = 1'-0"

TYPICAL END DETAIL
Scale: 3" = 1'-0"

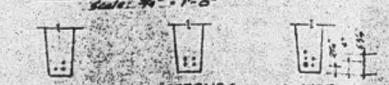


DETAIL "F"
Scale: 1½" = 1'-0"

DETAIL "G"
Scale: 1½" = 1'-0"

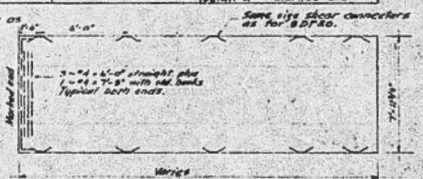


TYPICAL CROSS SECTION - WITH 10 STRANDS.
Scale: 3/4" = 1'-0"



6 STRANDS 8 STRANDS 10 STRANDS

Final Force/ locking loads:
6 strands: 179.5 k
8 " : 239.3 k
10 " : 299.1 k



TYPICAL PLAN
Scale: 3/4" = 1'-0"

Start shear connectors 7'-6" from marked end and space 6'-0" along on both sides. If the last one ends up more than 4'-6" from unmarked end, place one 1'-6" from that end. Special placement of shear connectors are shown on erection plans.

Revisions	By	Appd.	Date

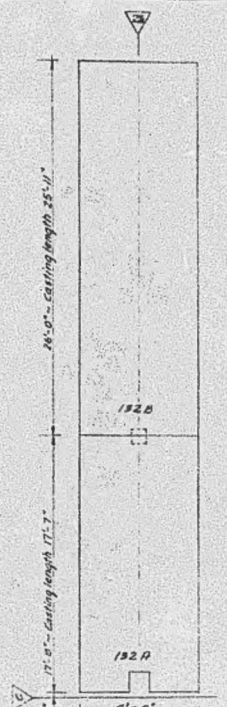
Design: ETE.
Drawn:
Checked: REM
Approved:

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1220 PORT OF TACOMA ROAD
TACOMA 5, WASHINGTON

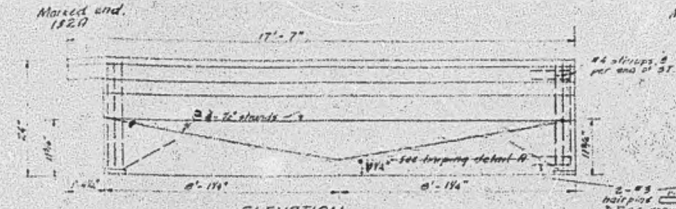
DETAILS – BDT16

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

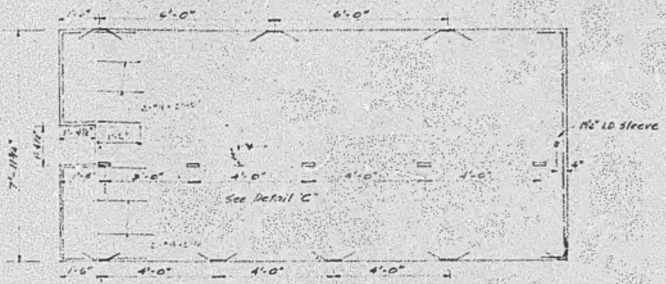
Date 8-20-62
Dr. No. E 4 of 5
Dwg. No. C-323



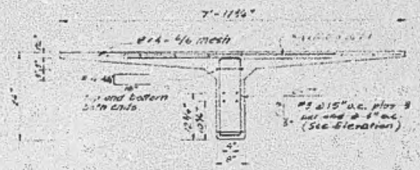
PLACEMENT PLAN
Scale: 1/4" = 1'-0"



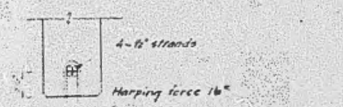
ELEVATION
Scale: Hor 1/2" = 1'-0", Vert. 1" = 1'-0"



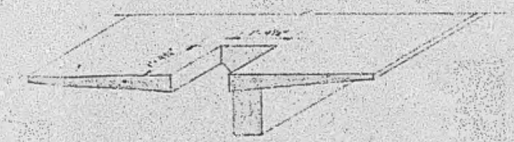
PLAN
Scale: 1/2" = 1'-0"



END SECTION -- MARK 132A
Scale: 3/4" = 1'-0"

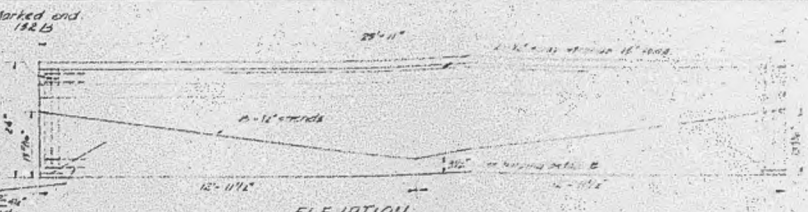


HARPING DETAIL 'A'
Scale: 1½" = 1'-0"



ISOMETRIC VIEW OF MARKED END MARK NO 132A

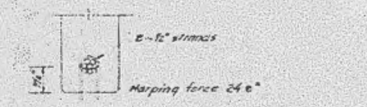
Marked end 132B



ELEVATION

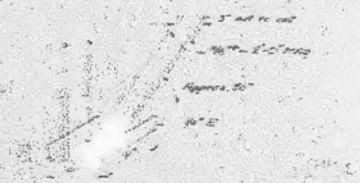
PLAN

END SECTION -- MARK 132B



HARPING DETAIL 'B'
Scale: 1½" = 1'-0"

DETAIL 'C'



WELDED ASSEMBLY FOR ALL ENDS
Shown 4 - 2 x 2 x ¼" angles cut to length, 2 without holes.

GENERAL NOTES:
1. See general notes on Sht. 1.
2. Minus tendon 1'-0" from end.
3. Prestress tendons 1" ctrs.
4. Casting bed 963" for 132B, 883" for 132A.
5. Finishing light trowel on shaded portion. Float screed on unshaded portion.
6. Place 4 - #4 concrete blocks on 132B on line marking release 2" ctrs on 132A.

No.	Revisions	By	Appd.	Date	

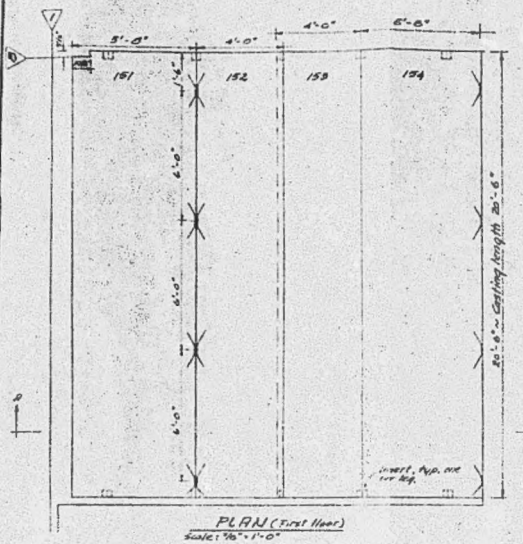
Design
Drawn K.T.F.
Checked REM
Approved

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1123 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

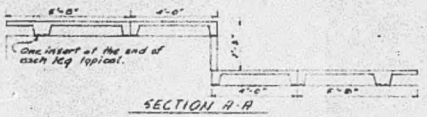
SHOP DRAWING -
24" SINGLE TEE

TRAVENOL BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

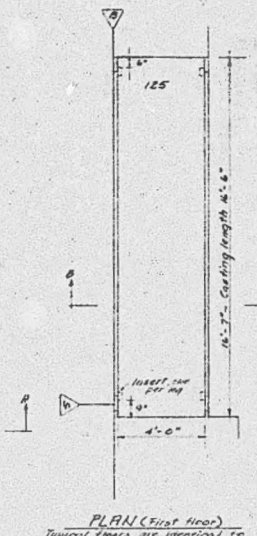
Date 5-3-64
Sh. No. 2 of 2
Dwg. No. [illegible]



PLAN (First floor)
Scale: 1/16" = 1'-0"

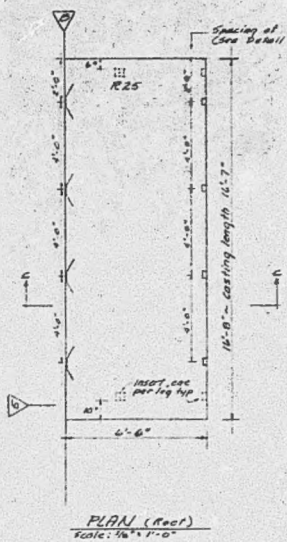


SECTION A-A

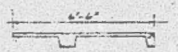


PLAN (First floor)
Typical floors are identical to first floor, thus mark 4.

SECTION B-B



PLAN (Roof)
Scale: 1/16" = 1'-0"

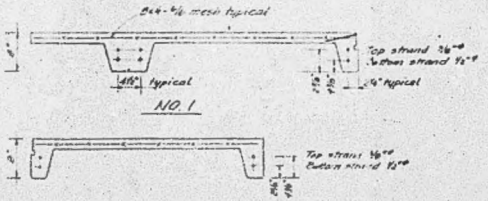


SECTION C-C

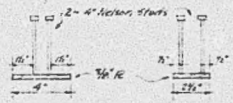
SUMMARY

Mark	No.	Casting length	Width	Strand pattern no.	Inserts A	Inserts B	Inserts C	Shear Conn.	Remarks
125	4	16'-6"	4'-0"	3	4	—	—	—	
R25	1	16'-7"	6'-6"	4	6	—	4	4	Note: shear connectors are put in for connection to masonry wall
151	1	20'-6"	5'-8"	1	—	6	—	4	1-5½" x 10½" blockout
152	1	"	4'-0"	2	—	4	—	4	
153	1	"	4'-0"	2	—	4	—	—	
154	1	"	5'-8"	1	—	6	—	4	Note: shear connectors in the cantilever side of tri slab.

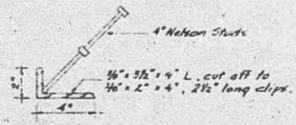
Note: Same General notes as for BT-16 and BT-16
One pickup loop per leg place 1'-0" from end
Jacking loads:
One strand 7/16": 21.7 k/leg
One 7/16" top and one 1/2" bottom: 45.0 k/leg



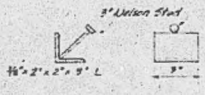
STRAND PATTERNS



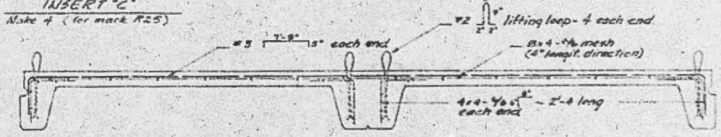
LEG INSERT "A"
Mark 22



LEG INSERT "B"
Mark 20



INSERT "C"
Note 4 (for mark R25)



FULL SECTION OF 8" TRI SLAB
These details applies for cut off sections also.

No.	Revisions	By	Appd	Date

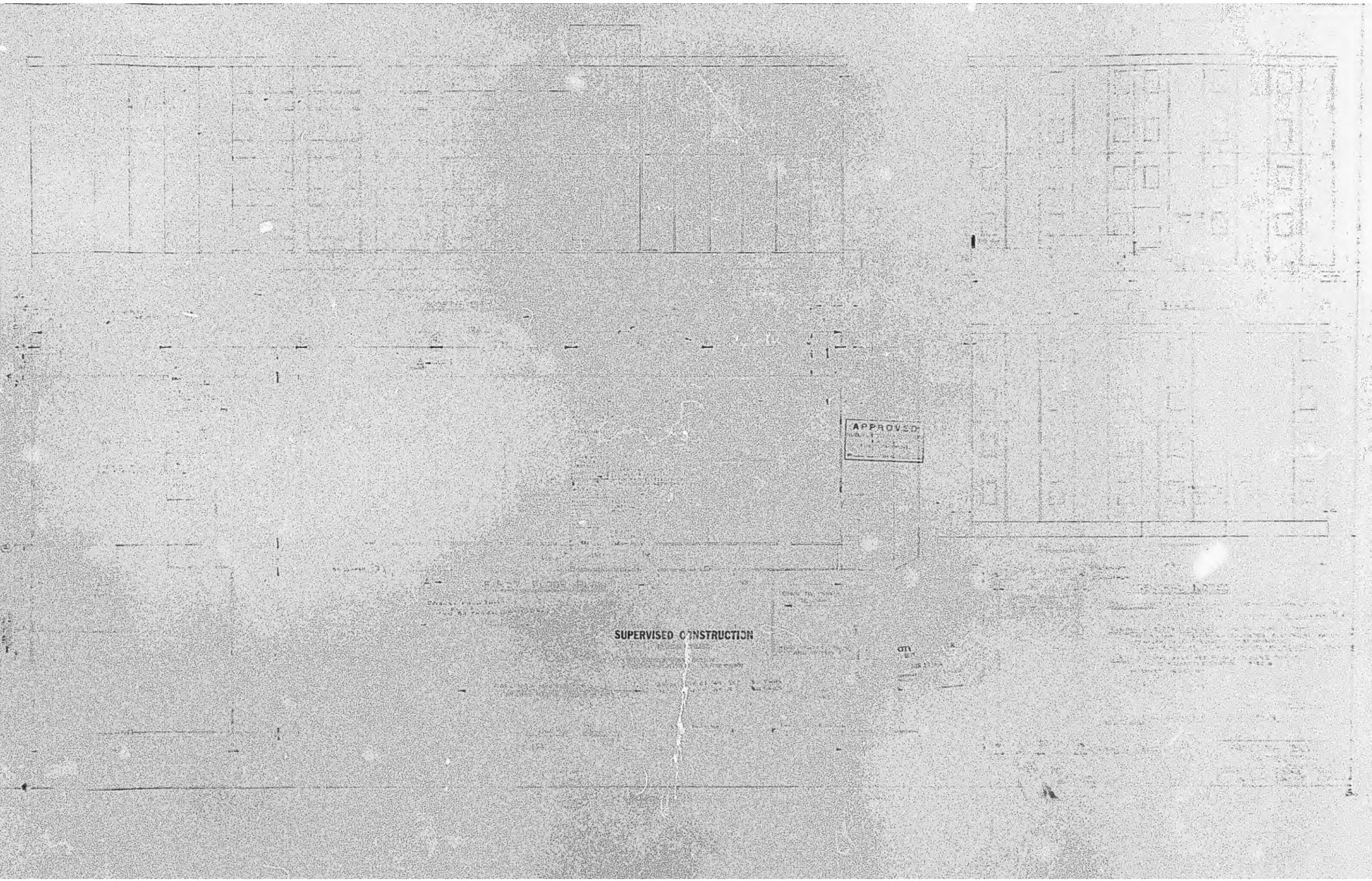
Design
Drawn ETF
Checked RFM
Approved

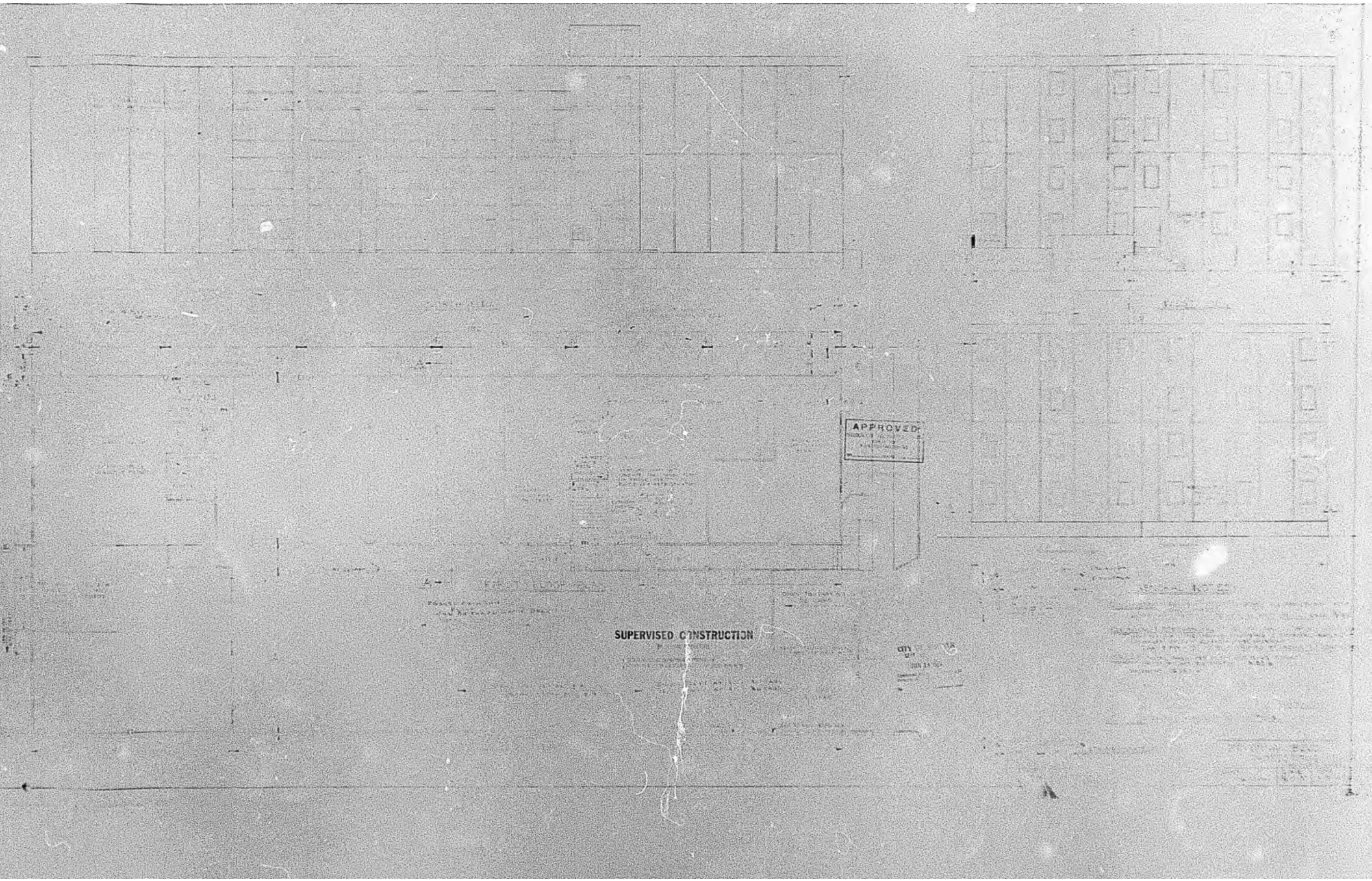
CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1123 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

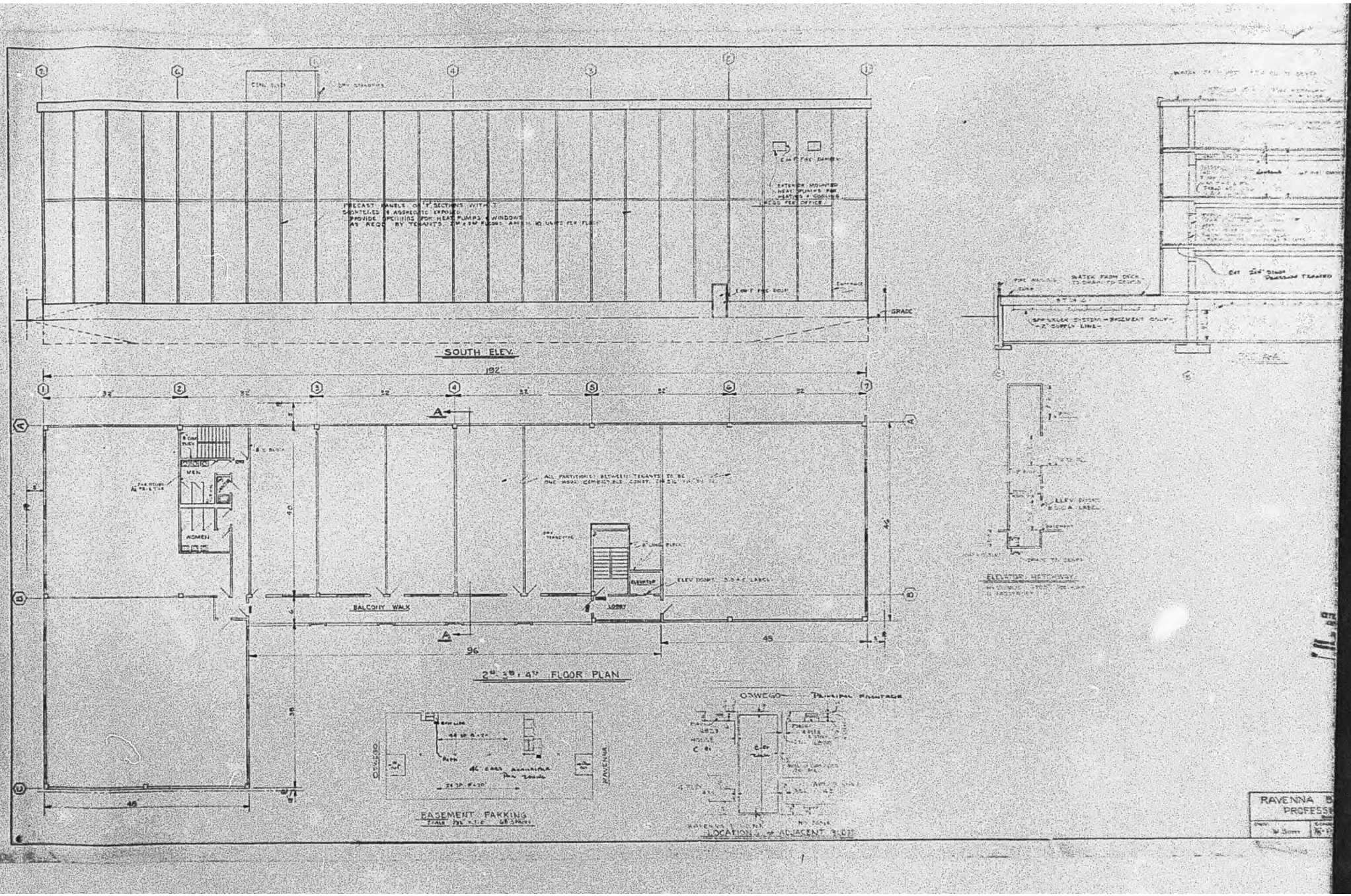
8" TRI SLABS

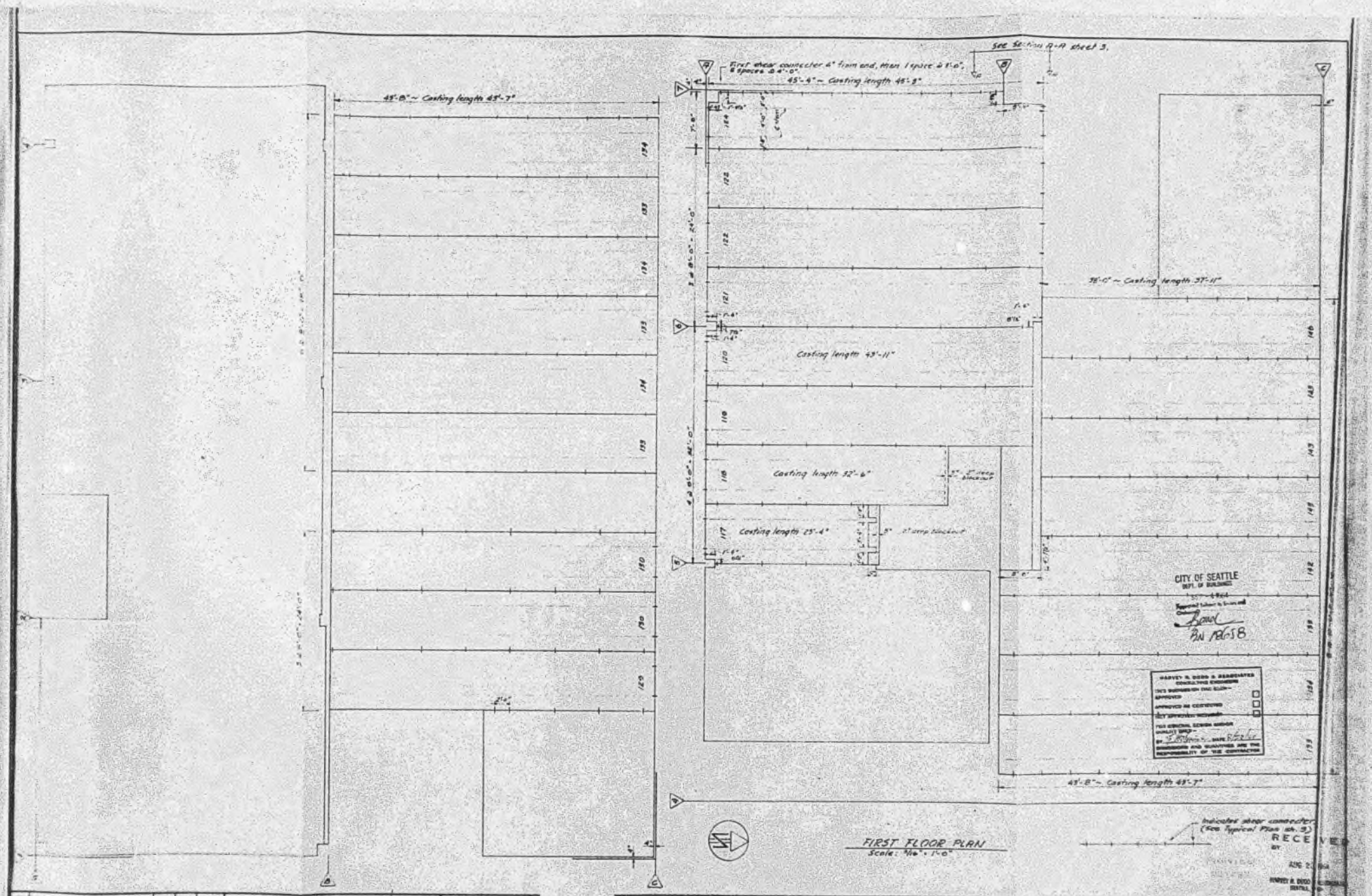
RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

Date 9-15-54
Sh. No. 2 of 2
Dwg No. 9-324


APPROVED
SUPERVISED CONSTRUCTION


APPROVED
SUPERVISED CONSTRUCTION


SOUTH ELEV.
192
2ND, 3RD & 4TH FLOOR PLAN
BALCONY WALK
LOBBY
ELEV. DOORS
MEN
WOMEN
96
48
EASEMENT PARKING
OSWEGO
RAVENNA
OSWEGO — Principal Frontage
LOCATION OF ADJACENT BLDG
ELEVATOR HOISTWAY
GRADE
RAVENNA B
PROFESSI



FIRST FLOOR PLAN
Scale: 3/16" = 1'-0"

No.	Revisions	By	App'd.	Date

Design
Drawn ETK
Checked
Approved

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1120 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

ERECTION PLAN ~ 8DT20
FIRST FLOOR

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

Date 10-15-58
Sh. No. 1 of 3
Dwg. No.

No.	Revisions	By	Appd.	Date	
Design					
Drawn ETF					
Checked					
Approved					

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1136 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

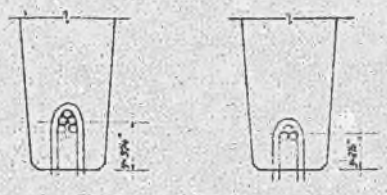
ERECTION PLAN - BDT 20
TYPICAL FLOOR PLAN - 2nd, 3rd, 4th

PAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

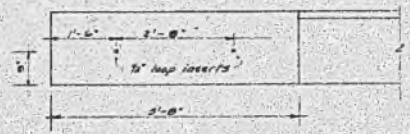
Date 8-15-64
Sh. No. 2 of 8
Dwg. No.

SUMMARY

Mark	No.	Casting length	Strands ½"	Harping x	Harping y	Sleeves 2"	Sleeves 3"	Welded Assembly	Shear Conn.	Blockouts	Remarks
117	1	23'-4"	6	–	–	4	–	4	10	1-6½"x1'-4" 1-5"x1'-11¾"	Add blockouts: 2-12"x1'-8" 1-12"x3'-4"
118	1	32'-6"	6	–	–	4	–	4	12	1-5"x1'-11¾"	
119	1	48'-11"	10	℄	3¼"	–	4	4	16	—	
120	1	"	10	℄	3¼"	–	4	4	18	1-7½"x1'-1"	
121	1	45'-9"	10	℄	3¼"	–	4	4	19	1-7½"x1'-1" 1-8½"x1'-4"	
122	2	"	10	℄	3¼"	–	4	4	20	—	
124	1	"	10	℄	3¼"	–	4	4	22	1-1'-8"x1'-4½" 1-1'-9½"x2'-8"	7'-8" wide, inserts
129	1	43'-7"	10	–	–	–	4	4	15	—	
130	2	"	10	–	–	–	4	4	24	—	
133	5	"	10	–	–	–	4	4	22	—	
134	4	"	12	–	–	–	4	4	22	—	Add sleeves: 4 @ 1'-0" 2 - bars in unmarked end.
142	1	"	10	–	–	–	4	4	21	1-5'8"x4'-7½"	
143	3	37'-11"	6	℄	2¾"	4	–	4	20	—	
146	1	"	6	℄	2¾"	4	–	4	15	—	
217	3	22'-0"	6	–	–	4	–	4	8	1-5"x1'-11¾"	Additional blockouts as mark 117.
218	3	91'-2"	6	–	–	4	–	4	10	1-5"x1'-11¾"	
219	3	42'-7"	10	–	–	–	4	4	14	—	
220	12	"	10	–	–	–	4	4	16	—	
224	3	"	10	–	–	–	4	4	19	—	7'-8" wide
226	3	42'-3"	10	–	–	–	4	4	19	—	
227	12	"	10	–	–	–	4	4	18		Detail A
231	3	"	10	–	–	–	4	4	18	1-8½"x3'-9"	



HARPING DETAILS
Scale: 3" = 1'-0"



SECTION A-A
Scale: ¾" = 1'-0"

TYPICAL CROSS SECTION - WITH 6 AND 10 STRANDS
Scale: 3/4" = 1'-0"

DETAIL A
Scale: 3" = 1'-0"

GENERAL NOTES

Concrete Mix/Cu yd:
- Type III Cement: 600 #
- Mixing Sand (Mod. 5% moisture): 1250 #
- ¾" Gravel: 2340 #
- Sika Plastiment: 12 oz.
- Water (total): 4½ gal/sack

Concrete strength:
- At transfer of prestress: 4000 psi
- At 28 days: 5000 psi

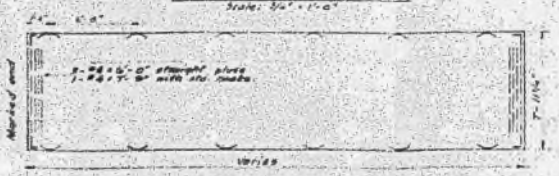
Prestressing Steel:
- Ultimate stress: 270 000 psi
- A_s: 0.153 in²/strand
- Initial jacking stress: 189 000 psi
- Losses, creep, shrinkage etc.: 35 000 psi
- Final stress: 154 000 psi

Reinforcing Steel:
- Deformed billet steel ASTM A-432.
- f_y 24000 for all bars = 4 and larger.

Note: Structural + Misc. Steel:
All welded anchors shall be low carbon M1020 hot rolled bars.

DETAIL B

TYPICAL ELEVATION
Scale: 3/4" = 1'-0"



TYPICAL PLAN
Scale: 3/4" = 1'-0"

DETAIL C

4 required per leg at unmarked end mark nos. 134

Z-BAR

Short shear connectors at 1'-6" from marked end and space 6'-0" along both notes (6'-0" for mark 133 - 146). If the last one ends up more than 6'-0" (3'-0" for mark 133-146), put one at 1'-6" from unmarked end. (See erection plans, special ones are indicated.)

CITY OF SEATTLE
DEPT. OF BUILDINGS
Approved subject to corrections noted
By
BN 18613

HARVEY H. DOBB & ASSOCIATES
CONSULTING ENGINEERS
THESE SUBMISSIONS ARE GIVEN
APPROVED
APPROVED AS CORRECTED
NOT APPROVED, RESUBMIT
FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT
BY _____ DATE _____
CONFORMANCE WITH NOTES AND THE RESPONSIBILITY OF THE CONTRACTOR

RELEASED
BY
JUNE 1 1962
HARVEY H. DOBB & ASSOCIATES
SEATTLE, WASH.

No.	Revisions	By	Appd.	Date

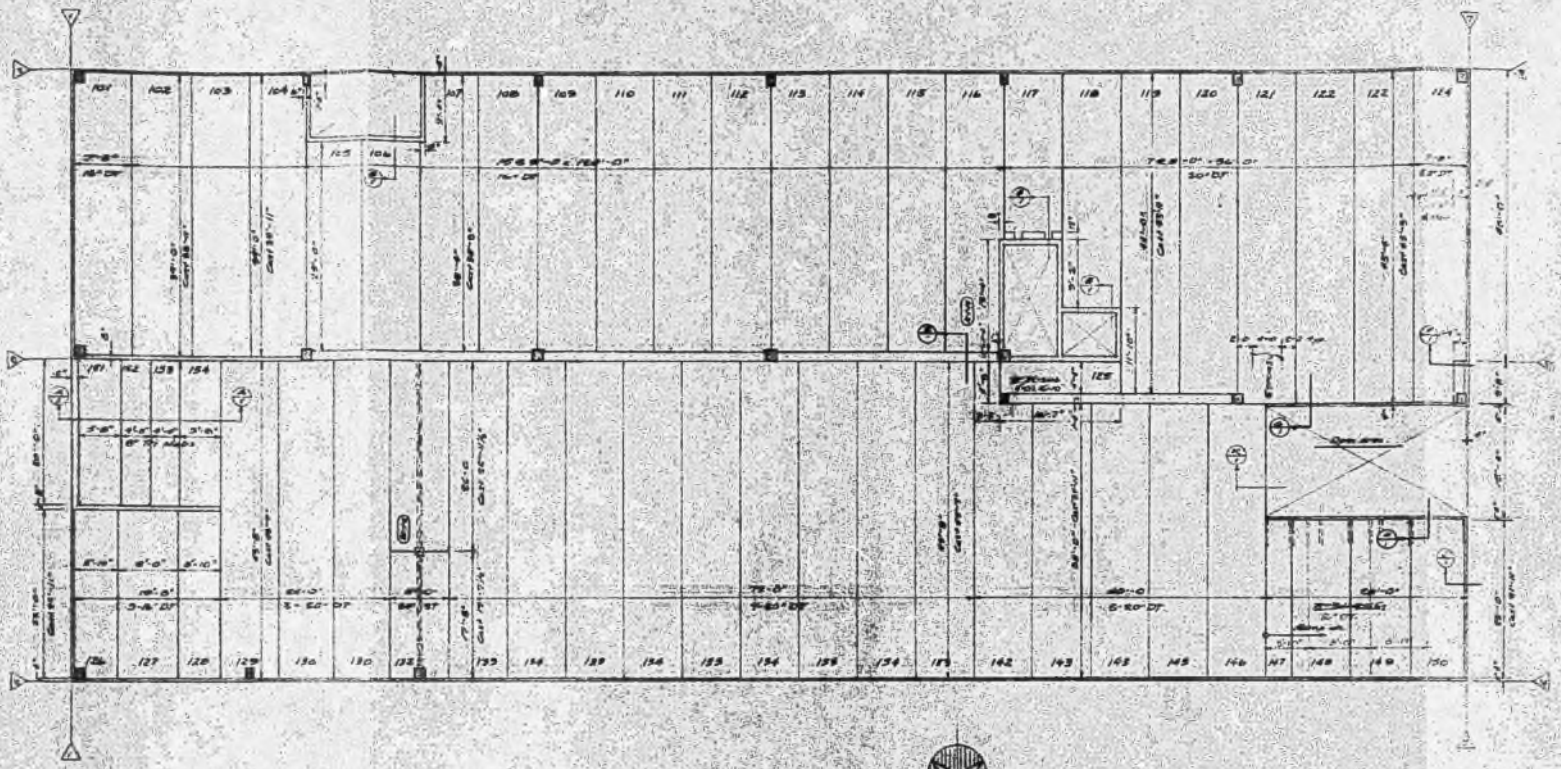
Design
Drawn E.T.T.
Checked
Approved

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1125 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

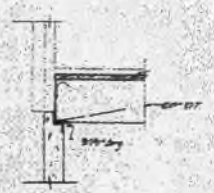
DETAILS - BDT 20

PAVILION BOULEVARD
PROFESSIONAL BUILDING
SEATTLE, WASH.

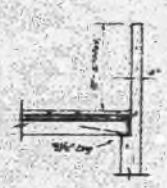
Date 8-16-61
Sh. No. 3 of
Engr. No.



STAIRWAY @ LINE "7"

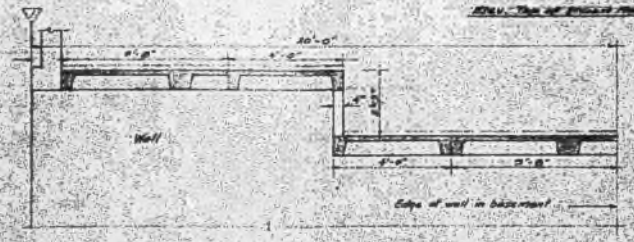


FLOOR @ OPEN AREA



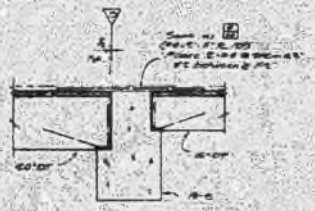
RAMP @ OPEN AREA

FIRST FLOOR PLAN 1/8"=1'-0"

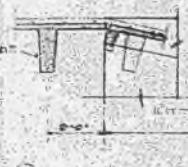


DETAIL OF HIGH AREA

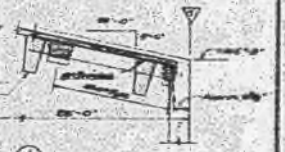
DETAIL AT BRICK WALL



TYP. SECTION @ LINE "B"



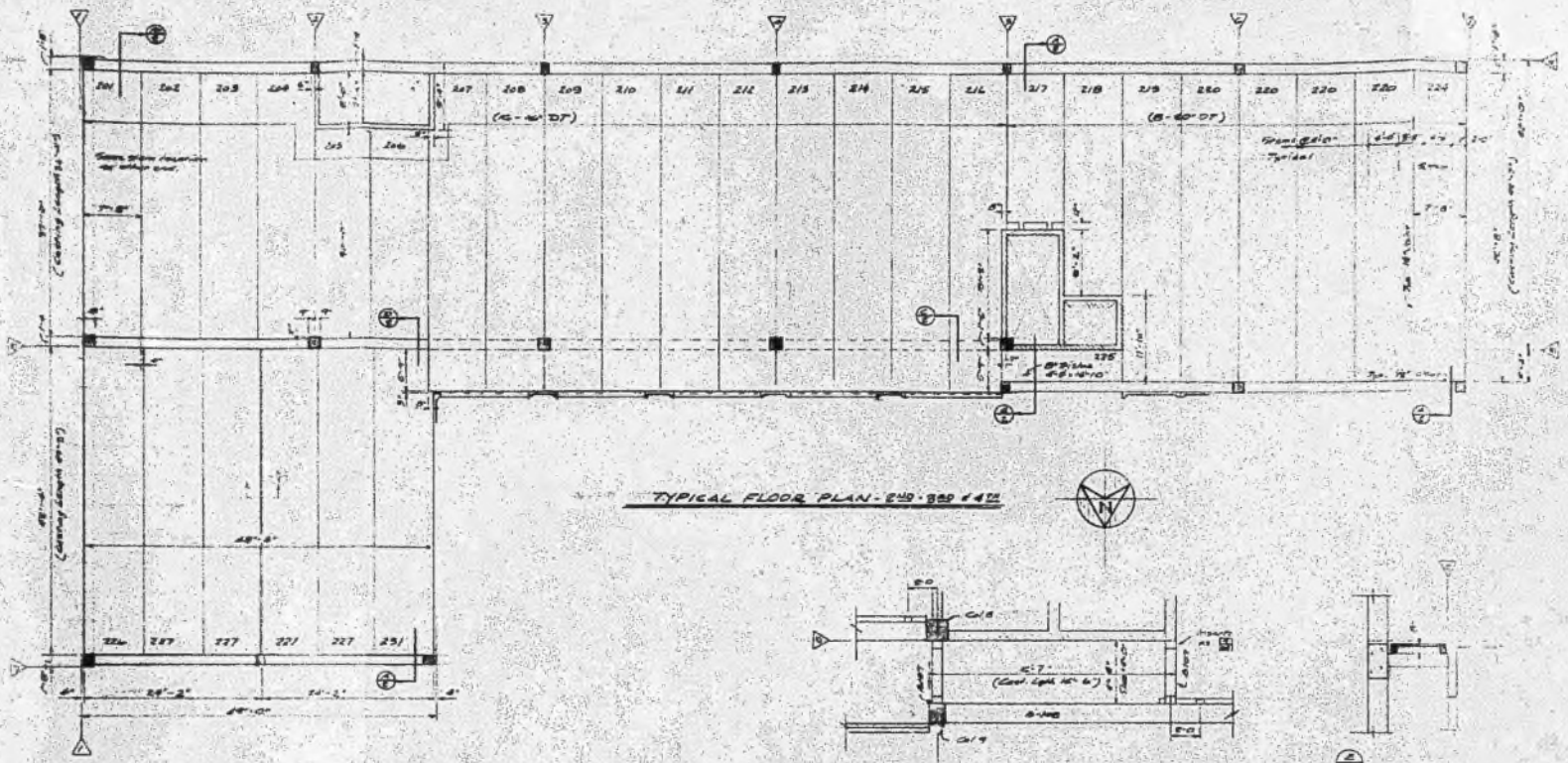
7% RAMP



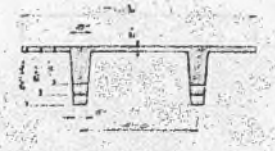
RAMP @ GRADE

CITY OF SEATTLE
DEPT. OF BUILDING
APPROVED
Date _____ P.N. 1562

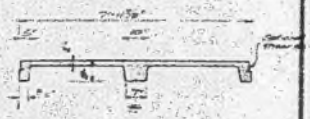
| | | |



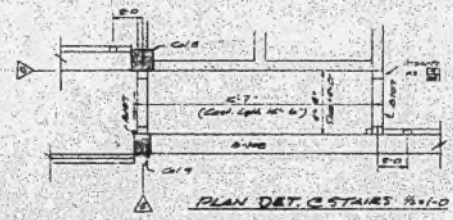
TYPICAL FLOOR PLAN - 2ND · 3RD & 4TH



TYP. DOUBLE TEE

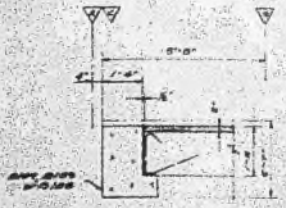


TYP. 8" TRISLAB

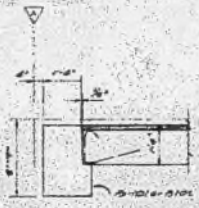


PLAN DET. @ STAIRS 1/2"=1'-0"

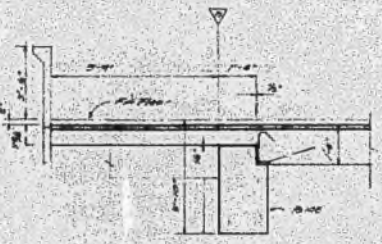
SECTION



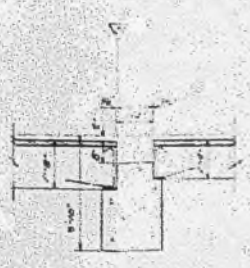
COL A5 TO A7
COL B5 TO B7
COL C1 TO C5



COL A1 TO A5



COL B5 TO B5



COL B1 TO B5

CITY OF SEATTLE
APPROVED

BN 0613

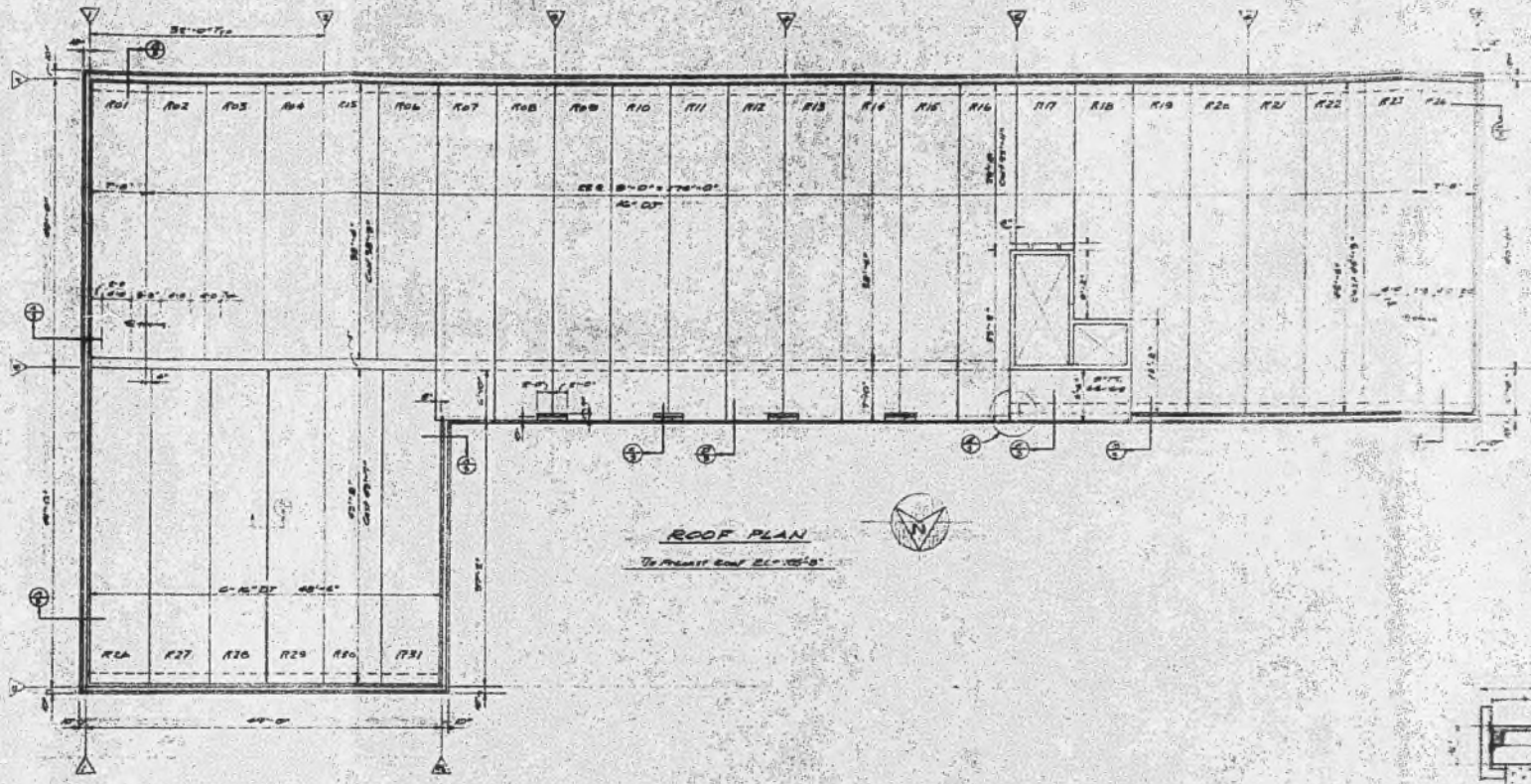
No.	Revisions	By	Appd.	Date	Design		
					Drawn	C.M.D.	
					Checked		
					Approved		

CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1139 PORT OF TACOMA ROAD
TACOMA 5, WASHINGTON

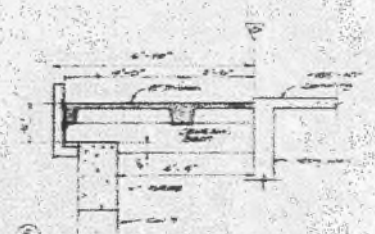
TYPICAL FLOOR PLAN AND DETAILS

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
SEATTLE WASH.

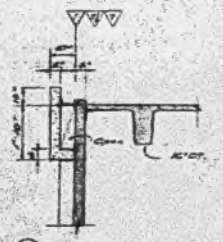
Date: August 1962
Sh. No.: S-4
Dwg. No.:



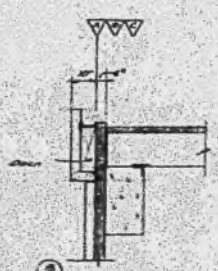
ROOF PLAN



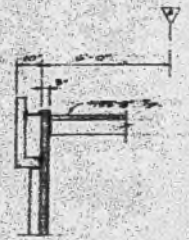
SECTION @ STAIR



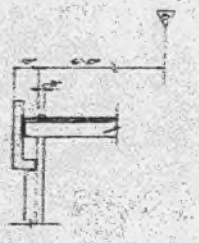
TYP EAVE RUNNING N/S



TYP EAVE RUNNING E/W



@ BALCONY



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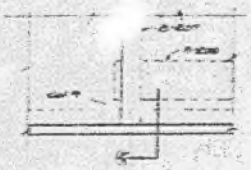


PLAN DETAIL @ COL?

CONCRETE TECHNOLOGY CORP.

ROOF PLAN AND DETAILS

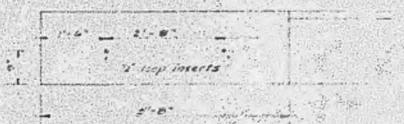
RAVENNA BOULEVARD PROFESSIONAL BUILDING

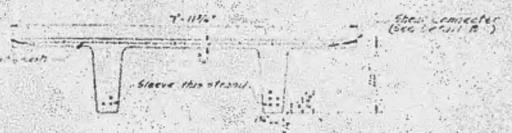
SEATTLE KING

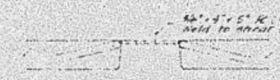
SUMMARY

Mark	No.	Casting length	Strands ½"	Harping x	Harping y	Sleeves 2"	Sleeves 3"	Welded Assembly	Shear Conn.	Blockouts	Remarks
117	1	23'-4"	6	—	—	4	—	4	10	1-2"x 2'-0"x 1'-0" 1-2"x 2'-0"x 2'-0"	Add blockouts 1-12"x 2'-0"x 1'-0" 1-12"x 2'-0"x 2'-0"
118	1	33'-6"	6	—	—	2	—	4	12	1-5"x 7'-11¾"	
119	1	43'-11"	10	℄	5¼"	—	4	4	16	—	
120	1	"	10	℄	7¼"	—	4	4	18	1-7½"x 1'-4"	
121	1	45'-3"	10	℄	7¼"	—	4	4	19	1-7½"x 1'-4" 1-8½"x 1'-4"	
122	2	"	10	℄	5¼"	—	4	4	20	—	
124	1	"	10	℄	5¼"	—	4	4	22	1-5½"x 2'-9½" 1-5½"x 2'-8"	7'-8" wide, Lightly
129	1	43'-7"	10	—	—	—	4	4	15	—	
130	2	"	10	—	—	—	4	4	24	—	
133	5	"	10	—	—	—	4	4	22	—	
134	4	"	12	—	—	—	4	4	22	—	Add Sleeves 4 @ 1'-6" E - back in unmarked end.
142	1	"	10	—	—	—	4	4	21	1-5'8"x 4'-11½"	
143	3	37'-11"	6	℄	2½"	4	—	4	20	—	
146	1	"	6	℄	2½"	4	—	4	15	—	
217	3	22'-0"	6	—	—	4	—	4	8	1-5"x 7'-11¾"	Additional Clearance as mark 117.
218	3	31'-2"	6	—	—	4	—	4	10	1-5"x 7'-11½"	
219	3	42'-7"	10	—	—	—	4	4	14	—	
220	12	"	10	—	—	—	4	4	16	—	
224	3	"	10	—	—	—	4	4	18	—	7'-8" wide
226	3	43'-3"	12	—	—	—	4	4	19	—	
227	12	"	10	—	—	—	4	4	16	—	Detail A
231	3	"	10	—	—	—	4	4	18	1-12"x 2'-9"	

HARPING DETAILS
Scale: 3" = 1'-0"



SECTION A-A
Scale: ¾" = 1'-0"

TYPICAL CROSS SECTION - WITH 6 AND 10 STRANDS
Scale: 3/4" = 1'-0"

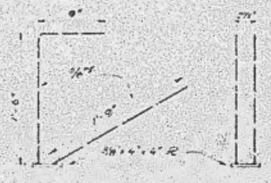


DETAIL A
Scale: 3" = 1'-0"

DETAIL B

TYPICAL ELEVATION
Scale: ¾" = 1'-0"

TYPICAL PLAN
Scale: ¾" = 1'-0"



DETAIL C

Z-BAR

GENERAL NOTES

Concrete Mix Design:	
Type II Cement	658 lbs
Paving Sand (Mod. 3% moisture)	1250 lbs
¾" Gravel	2350 lbs
Sika Plasticrete	12 oz
Water (total)	41½ gal/sack
Concrete strength:	
At transfer of prestress	4000 psi
At 28 days	5000 psi
Prestressing Steel:	
Ultimate stress	270000 psi
f_{pi}	0.69 x ultimate
Initial jacking stress	189 000 psi
Losses, creep, shrinkage etc.	35 000 psi
Final stress	154 000 psi
Reinforcing Steel:	
Deformed billet steel ASTM A-432	
f_y 34000 psi for all bars #4 and larger.	
Note: Structural & Misc. Steel:	
All welded anchors shall be low carbon M1020 hot rolled bars.	

Shear connectors at 1'-6" from ends of legs and space along both sides (3'-6" for mark 143 only) but one at 1'-6" from end. (See erection plans, typical ones are indicated.)

RECEIVED
BY
MAR 2 1964
HARVEY R. DODD
PROFESSIONAL ENGINEER

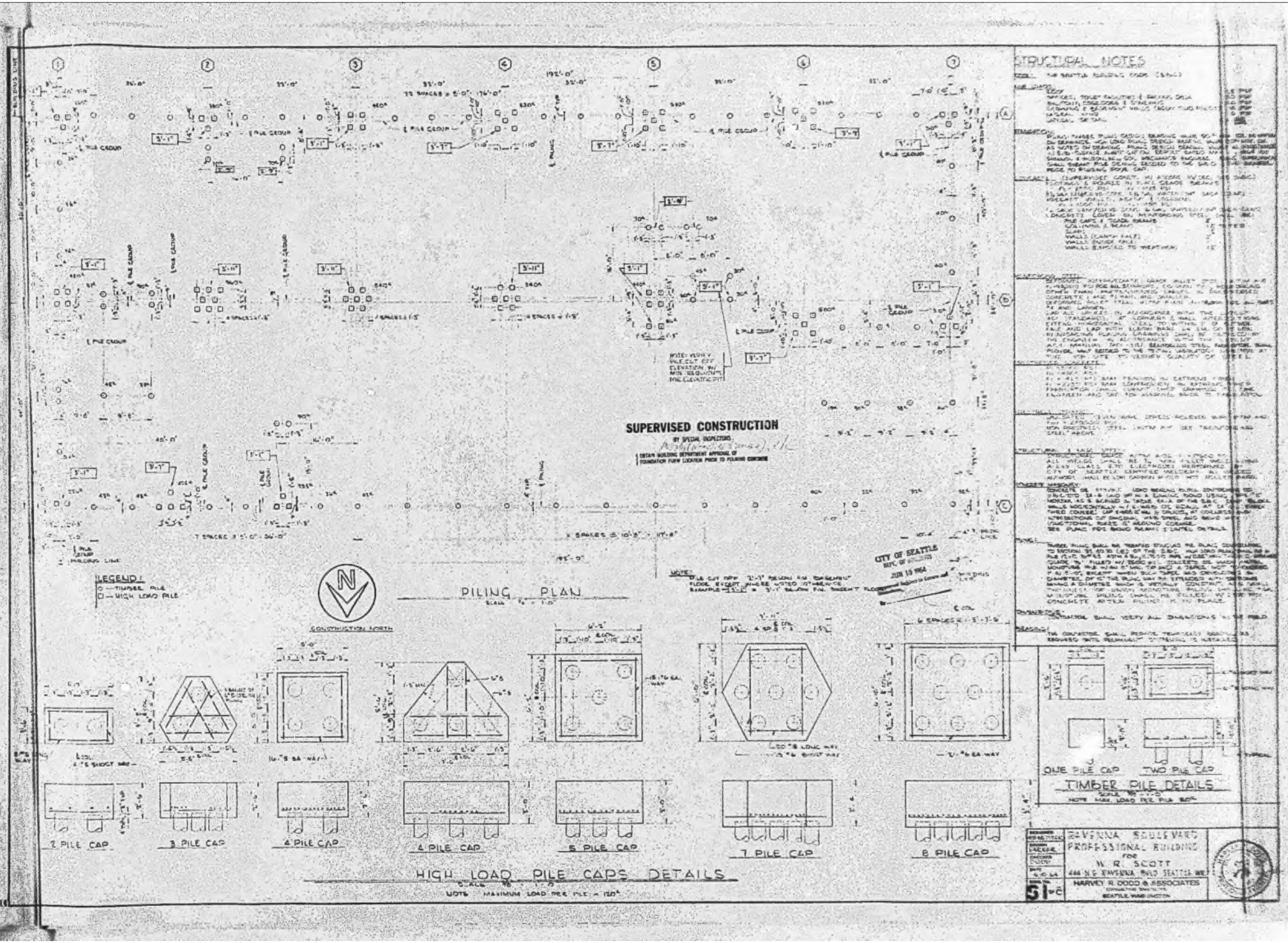
No.	Revisions	By	Appd.	Date	
					Design
					Drawn E.T.T.
					Checked
					Approved

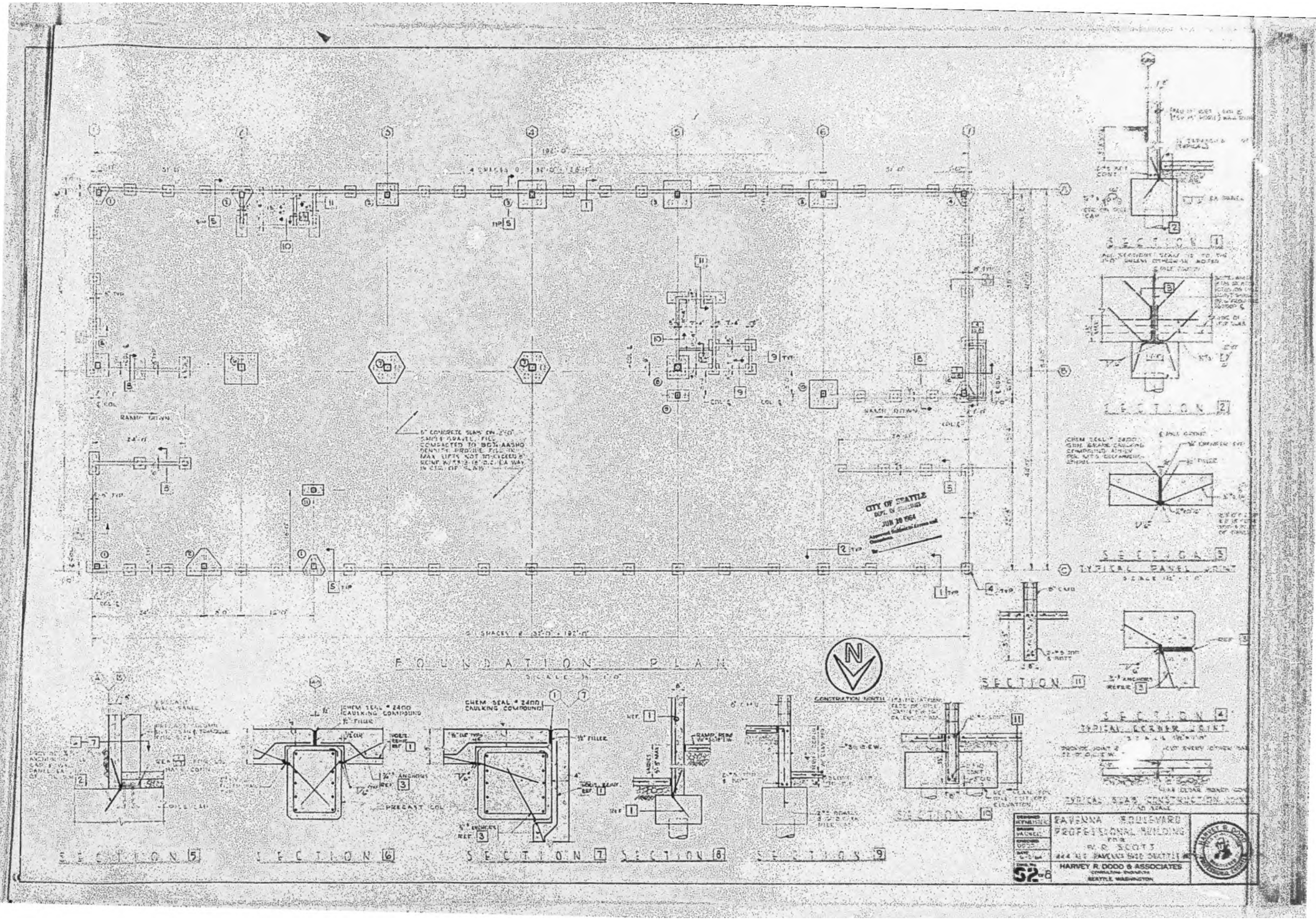
CONCRETE TECHNOLOGY CORP.
MANUFACTURERS OF PRESTRESSED CONCRETE
1133 PORT OF TACOMA ROAD
TACOMA 2, WASHINGTON

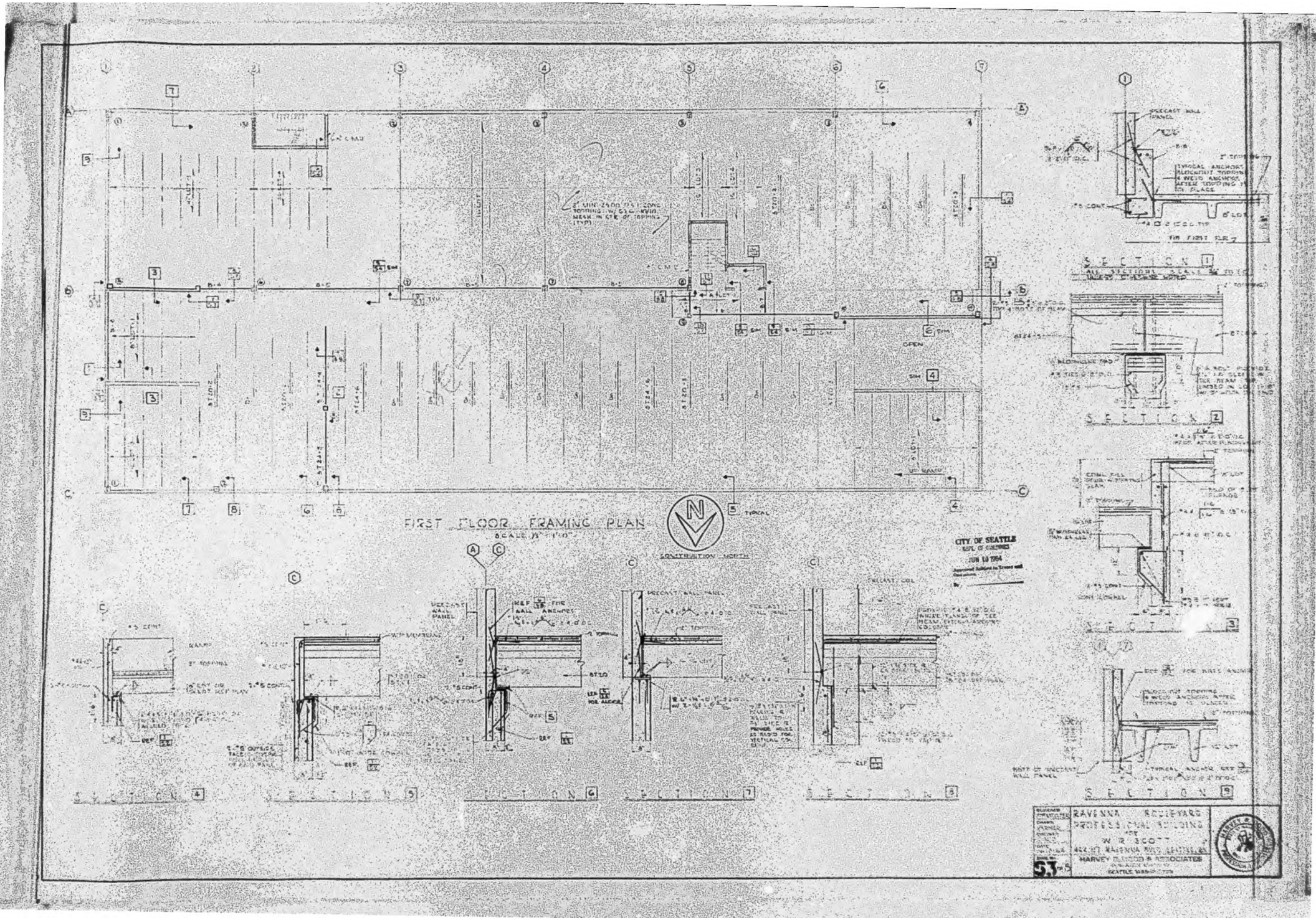
DETAILS - SHT 2 OF 2

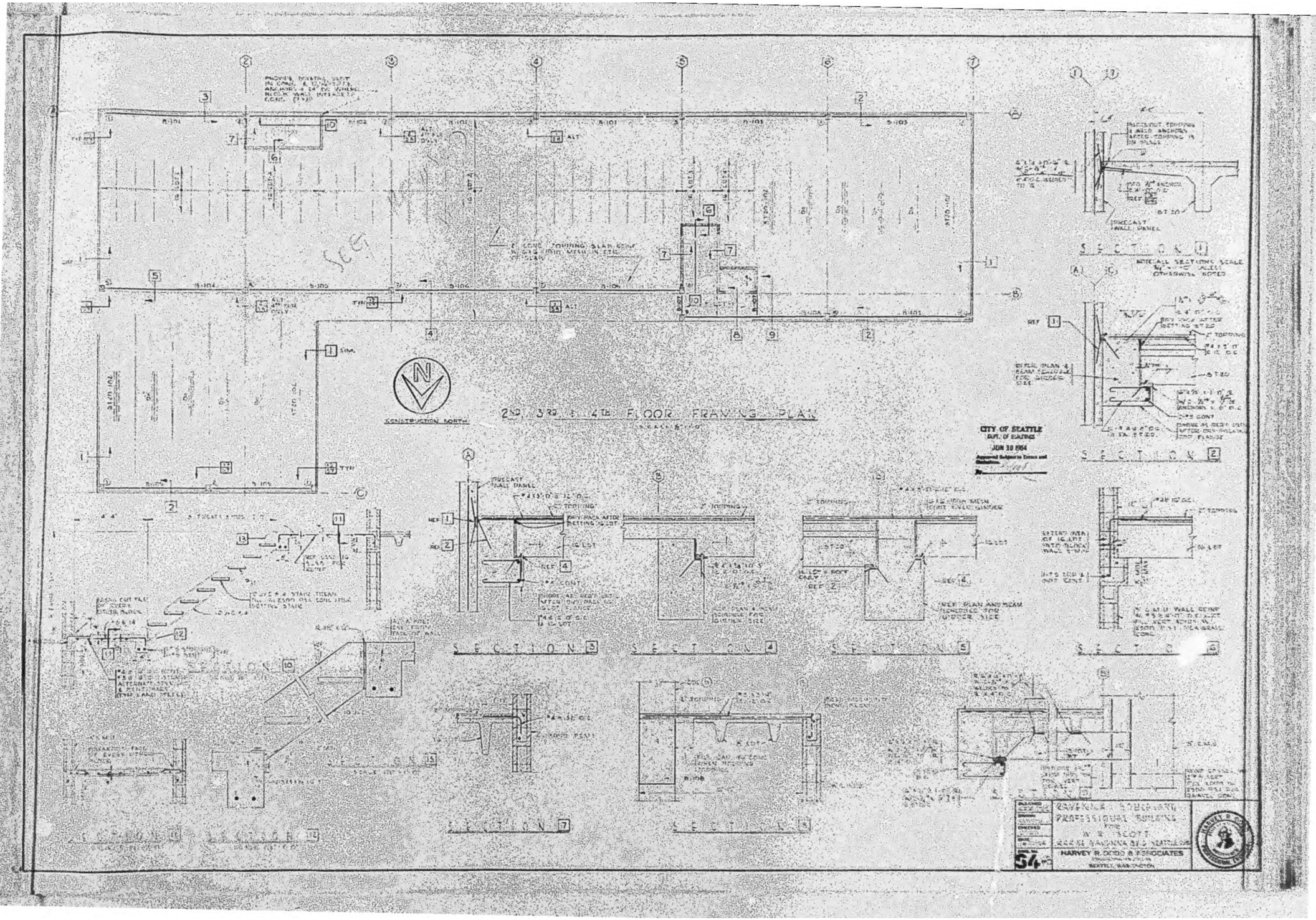
PREMIUM BOULEVARD
SCOTTSDALE ROAD AND
SEATTLE, WASH.

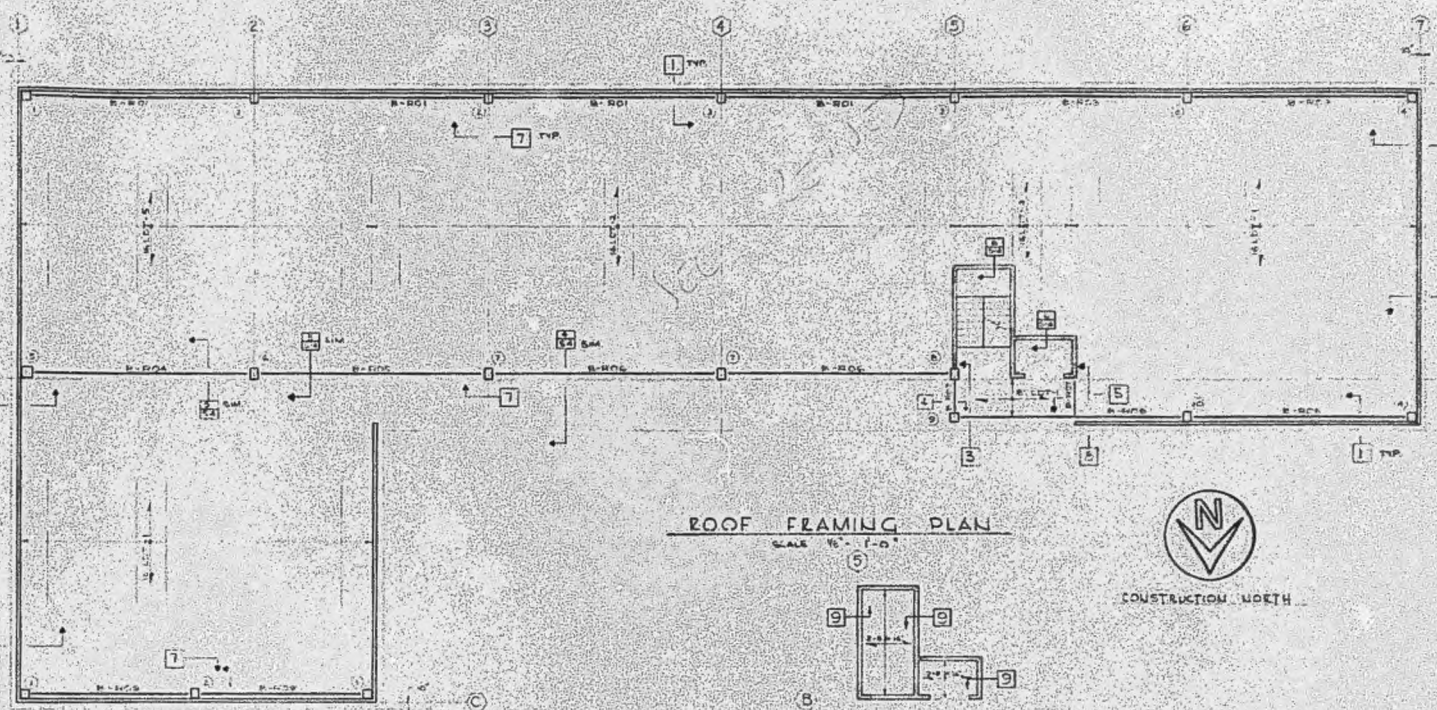
Date 2-6-64
Sh. No. 5 of 6
Dwg. No.


STRUCTURAL NOTES
SUPERVISED CONSTRUCTION
BY SPECIAL INSPECTORS
CITY OF SEATTLE
JUN 10 1964
LEGEND:
TIMBER PILE
HIGH LOAD PILE
PILING PLAN
CONSTRUCTION NORTH
2 PILE CAP
3 PILE CAP
4 PILE CAP
6 PILE CAP
5 PILE CAP
7 PILE CAP
8 PILE CAP
HIGH LOAD PILE CAPS DETAILS
ONE PILE CAP
TWO PILE CAP
TIMBER PILE DETAILS
RAVENNA BOULEVARD
PROFESSIONAL BUILDING
FOR
W. R. SCOTT
HARVEY R. DODD & ASSOCIATES
S1-c


FOUNDATION PLAN
SCALE 1/8" = 1'-0"
SECTION 1
SECTION 2
SECTION 3
TYPICAL PANEL JOINT
SECTION 4
TYPICAL CORNER JOINT
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10
SECTION 11
CHEM-SEAL # 2400 CAULKING COMPOUND
PRECAST COL.
RAMP DOWN
CITY OF SEATTLE
JUN 30 1964
FAVENNA BOULEVARD
PROFESSIONAL BUILDING
FOR
W. D. SCOTT
HARVEY R. DODD & ASSOCIATES
CONSULTING ENGINEERS
SEATTLE, WASHINGTON
S2-8


FIRST FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"
CONSTRUCTION NORTH
CITY OF SEATTLE
DEPT. OF BUILDINGS
JUN 10 1964
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
RAVENNA BOULEVARD
PROFESSIONAL BUILDING
FOR
W. R. SCOTT
HARVEY FLEETWOOD & ASSOCIATES
SEATTLE WASHINGTON
53

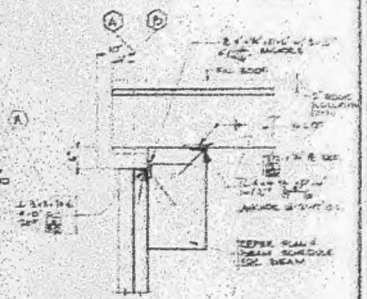

2ND 3RD & 4TH FLOOR FRAMING PLAN
CONSTRUCTION NORTH
SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
CITY OF SEATTLE
DEPT. OF BUILDINGS
JUN 10 1954
RAVENNA COMMUNITY
PROFESSIONAL BUILDING
FOR
W. R. SCOTT
HARVEY R. OCKO & ASSOCIATES
SEATTLE, WASHINGTON
54



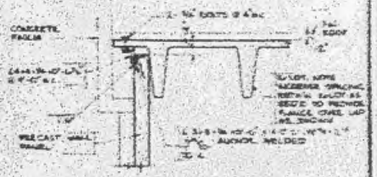
ROOF FRAMING PLAN
SCALE 1/8" - 1'-0"

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

CONSTRUCTION NORTH

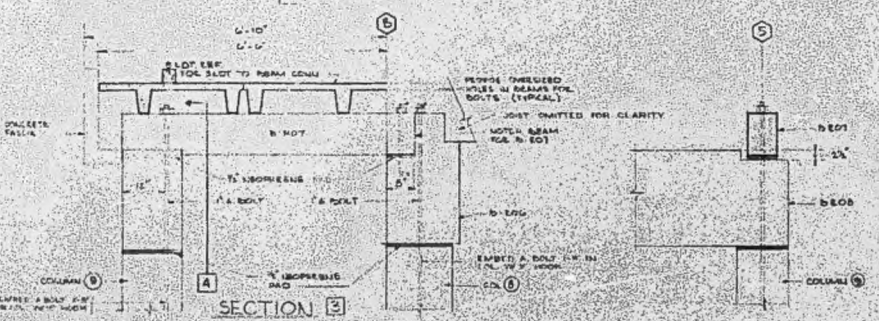


SECTION 1



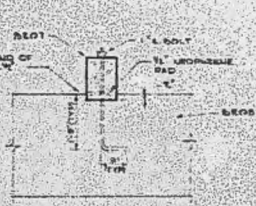
SECTION 2

CITY OF SEATTLE
DEPT. OF LICENSES
JUN 18 1964



SECTION 3

SECTION 4



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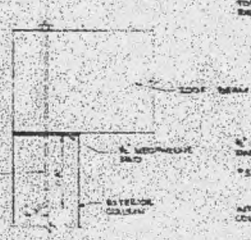

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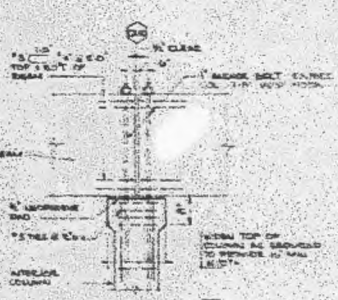

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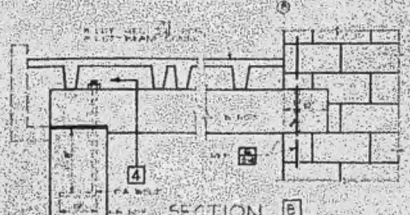

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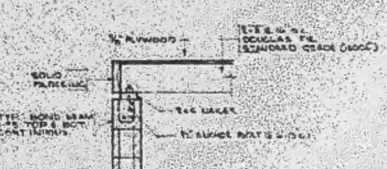


SECTION 9

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
FOR
W. R. SCOTT
5448 RAVENNA BLVD SEATTLE 15
HARVEY S. DODD & ASSOCIATES
SEATTLE, WASHINGTON

55 of 8

COLUMN SCHEDULE

MARK	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪

#3 TIE #3 TIE #3 TIE

8 #2 10 BARS VERT 8 BARS VERT 4 BARS VERT

TYP COL ARRANGEMENT DETAIL

NO SCALE

ROOF

4TH FLOOR

3RD FLOOR

2ND FLOOR

1ST FLOOR

SPLICE BARS AS REQ'D AND REQ. ACI STANDARD

PLAN LINTEL REFER TO

BEAM COMM THIS LEVEL AND LINE B ONLY

FOOTING

REF TO FOR COL TOT FOOTING COMM

PRECAST COLUMN ELEVATION

NO SCALE

PRECAST BEAM SCHEDULE

MARK	b	d	SHAPE	REINFORCING NO	REINFORCING SIZE	REINFORCING ARRANGEMENT	REMARKS
B-101	16"	49"		1 3 2	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-102	16"	29"		1 2 3	#6 #7 #3	TOP BOT STIRRUPS	CAMBER 1"
B-103	16"	29"		1 2 3	#8 #11 #3	TOP BOT STIRRUPS	X = 20" FOR BT 20 X = 16" FOR 16 LOT DECKED T = 6" FOR BT20 T = 4" FOR 16 LOT EA. END CAMBER 1"
B-4	8	29		1 2	#3 #3	TOP BOT	NO CAMBER REF
B-5	16"	45"		1 2 3	#7 #11 #7	TOP BOT STIRRUPS	MAY BE 20" FOR BT 20 AND BT 24 DECKED CAMBER 1" EA. END
B-6	16"	49"		1 2 3	#7 #11 #7	TOP BOT STIRRUPS	DECKED CAMBER 1"
B-7 B-101 B-102	8"	12"		1	#3	BOT STIRRUPS	NO CAMBER EA. END
B-8	8"	32"		1 2	#7 #8	TOP BOT STIRRUPS	NO CAMBER EA. END
B-104	16"	32"		4 4 4	#7 #11 #7	TOP BOT STIRRUPS	CAMBER 1" DECKED EA. END
B-105	16"	36"		2 3 4	#7 #11 #7	TOP BOT STIRRUPS	CAMBER 1" DECKED NOTE: 6" LEDGE REQD FOR BT 20 EAST HALF OF BEAM
B-106	16"	36"		2 3	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-108	*	29"		4 4	#7 #10 #3	TOP BOT STIRRUPS	NOTE: 6" LEDGE REQ'D. WEST HALF OF BEAM ONLY CAMBER 1"
B-109	16"	29"		2 3 1	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-110	16"	18"		2 1	#7 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-201	16"	65"		2 2 3	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-202	16"	36"		2 5 4	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" EA. END
B-203	16"	56"		2 2 3	#7 #10 #3	TOP BOT STIRRUPS	CAMBER 1" NOTE: 6" LEDGE REQD EA. SIDE OF BM FOR EAST HALF OF BEAM
B-204	16"	36"		2 4	#8 #3	TOP BOT STIRRUPS	CAMBER 1"
B-205	16"	36"		2 2	#7 #3	TOP BOT STIRRUPS	CAMBER 1"
B-206	16"	36"		2 2	#7 #3	TOP BOT STIRRUPS	CAMBER 1"

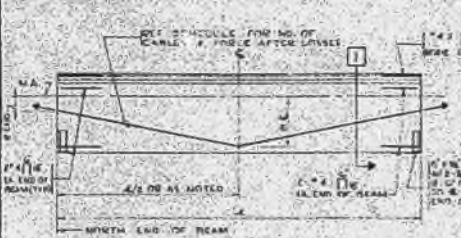
NOTE: LEFT END OF BEAM IN SCHEDULE IS EAST END OF BEAM IN BUILDING.

"T" BEAM SCHEDULE

MARK	PRESTRESSING CABLES STR'D NO.	SIZE	CABLE ℄	FORCE AFTER LOSSES	STIRRUPS	REMARKS
BT20-10E	8	12"	3.86"	184"	6-#4 @ 3" EA END	
BT20-10E	7	12"	3.71"	192"	6-#4 @ 3" EA END	
BT24-4	8	12"	4.0"	184"	6-#4 @ 3" EA END	
BT24-5	4	12"	4.22"	97"	6-#4 @ 3" EA END	
BT24-6	9	12"	2.84"	215"	6-#4 @ 3" EA END	8" ℄ TO ℄ FROM NORTH END OF BEAM

DOUBLE TEE SCHEDULE

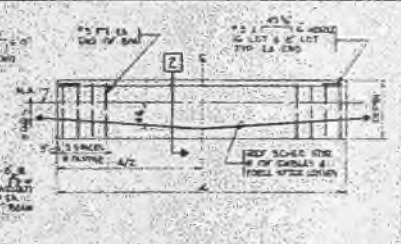
MARK	DEPTH	PRESTRESSING CABLES STR'D No.	SIZE	CABLE ℄	FORCE AFTER LOSSES	DESIGNATION
DT20-1	18"	10	3/8	8.06	8.06	1/2 OF CABLES EA LEG
DT20-2	18"	10	3/8	8.06	8.06	1/2 OF CABLES EA LEG
DT20-3	15"	4	1/2	8.35	8.35	1/2 OF CABLE EA LEG
DT20-4	18"	10	3/8	8.06	8.06	1/2 OF CABLES EA LEG
DT20-5	10"	8	3/8	6.85	6.85	1/2 OF CABLE EA LEG
DT20-6	8"	16	3/8	2.49	2.49	1/2 OF CABLE EA LEG



ELEVATION T BEAM

NO SCALE

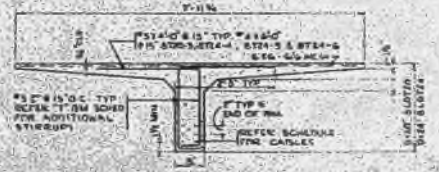
NOTE: CABLES MAY BE BUNDLED @ CENTER OF BEAM



ELEVATION DOUBLE TEE BEAM

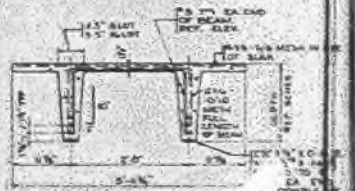
NO SCALE

NOTE: CABLES MAY BE BUNDLED @ CENTER OF BEAM



SECTION 1

NO SCALE



SECTION 2

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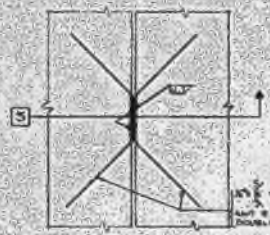


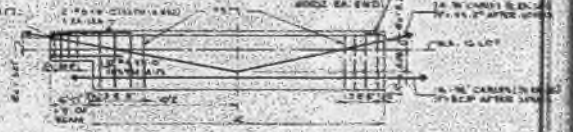
SECTION 3

TYPICAL FLANGE CONNECTION

NO SCALE

SECTION 5

NO SCALE



SECTION 4

NO SCALE

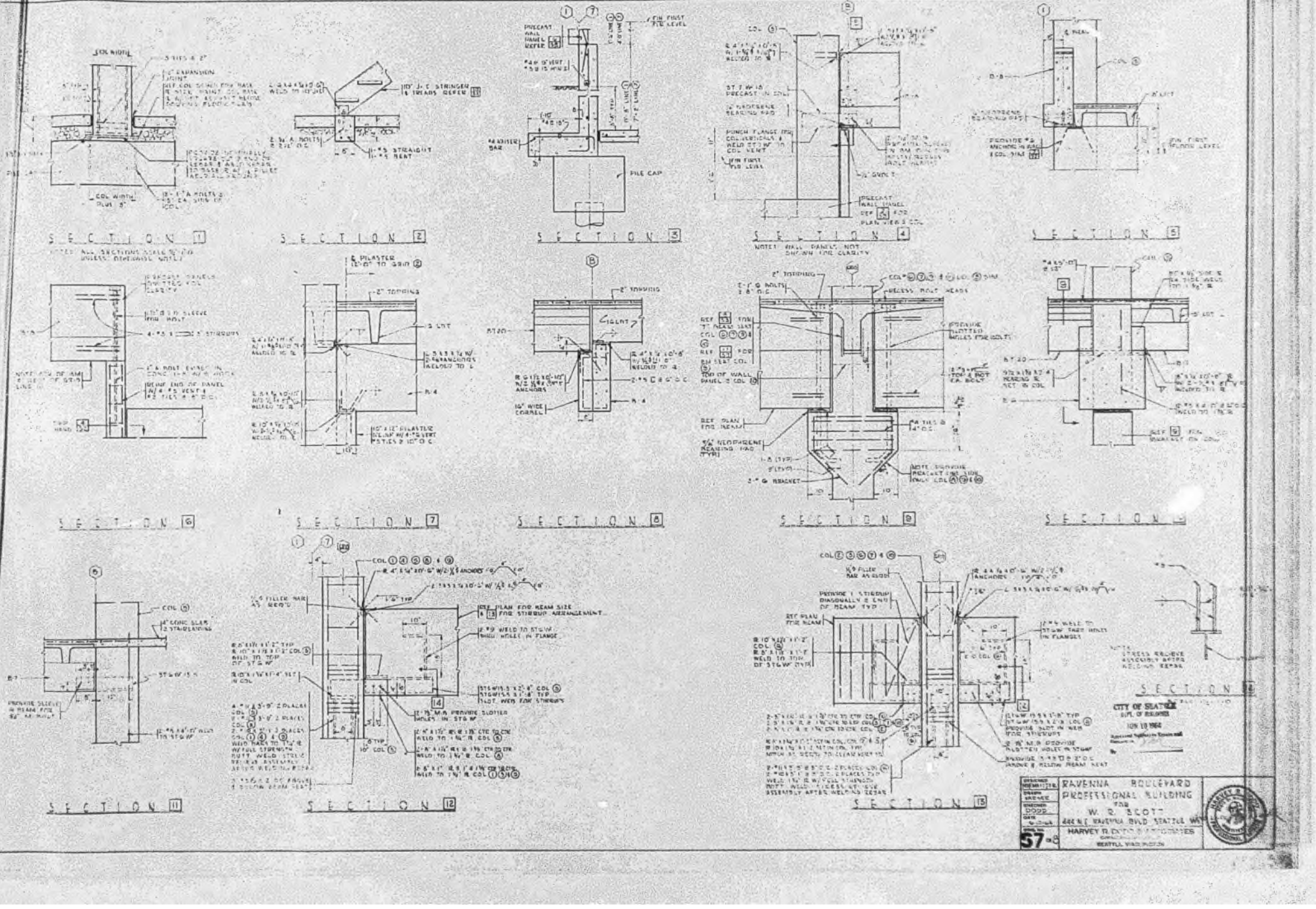
REFER ELEVATION DOUBLE TEE BEAM FOR STIRRUPS

CITY OF SEATTLE
DEPT. OF BUILDING
JUN 13 1968
Approved for Issuance
By

DESIGNED	
DRAWN	
TRACED	
CHECKED	
DATE	
SCALE	
JOB NO.	5000
SHEET NO.	S6

SAVENNA BOULEVARD PROFESSIONAL BUILDING
FOR
W. R. SCOTT
244 NO. RAINIER BLD. SEATTLE, WASH.
HARVEY R. CONDO & ASSOCIATES
CONSULTING ENGINEERS
SEATTLE, WASHINGTON

64-28


SECTION 1
SECTION 2
SECTION 3
SECTION 4
SECTION 5
SECTION 6
SECTION 7
SECTION 8
SECTION 9
SECTION 10
SECTION 11
SECTION 12
SECTION 13
SECTION 14
RAVENNA BOULEVARD PROFESSIONAL BUILDING
FOR
W. R. SCOTT
CITY OF SEATTLE
57

SECTION 1
ALTERNATE BEAM COL CONN.

SECTION 2
ALTERNATE 4TH FLOOR TO ROOF COL CONN

SECTION 3
COL TO WALL PANEL CONN.

SECTION 4

SECTION 5

BOND BEAM & LINTEL DETAILS

TYPICAL WALL PANEL
2ND FLOOR TO ROOF

TYPICAL WALL PANEL WITH WINDOW
2ND FLOOR TO ROOF

TYPICAL WALL PANEL
1ST FLOOR TO 3RD FLOOR

TYPICAL WALL PANEL WITH WINDOWS
1ST FLOOR TO 3RD FLOOR

SECTION 6 WALL PANEL ELEVATIONS
NO SCALE

SECTION 7

SECTION 8 TYP HORIZONTAL PANEL TO PANEL JOINT

SECTION 9 TYPICAL PANEL TO PANEL CONNECTION

SECTION 10 TYP CORNER COL WALL PANEL CONNECTION

SECTION 11 TYPICAL INTERIOR COL WALL PANEL CONNECTION

CITY OF SEATTLE
DEPT. OF BUILDINGS
MAY 23 1985
Approved Subject to Review
By 16615

CITY OF SEATTLE
DEPT. OF BUILDINGS
JUN 19 1984
Approved Subject to Field Inspection
By

RAVENNA BOULEVARD
PROFESSIONAL BUILDING
TYPE
W. 5TH & 5TH
448 NE RAVENNA BLVD SEATTLE WA
HARVEY R. DODD & ASSOCIATES
SEATTLE WASHINGTON

S-8

HARVEY R. DODD & ASSOCIATES
CONSULTING ENGINEERS
WASHINGTON