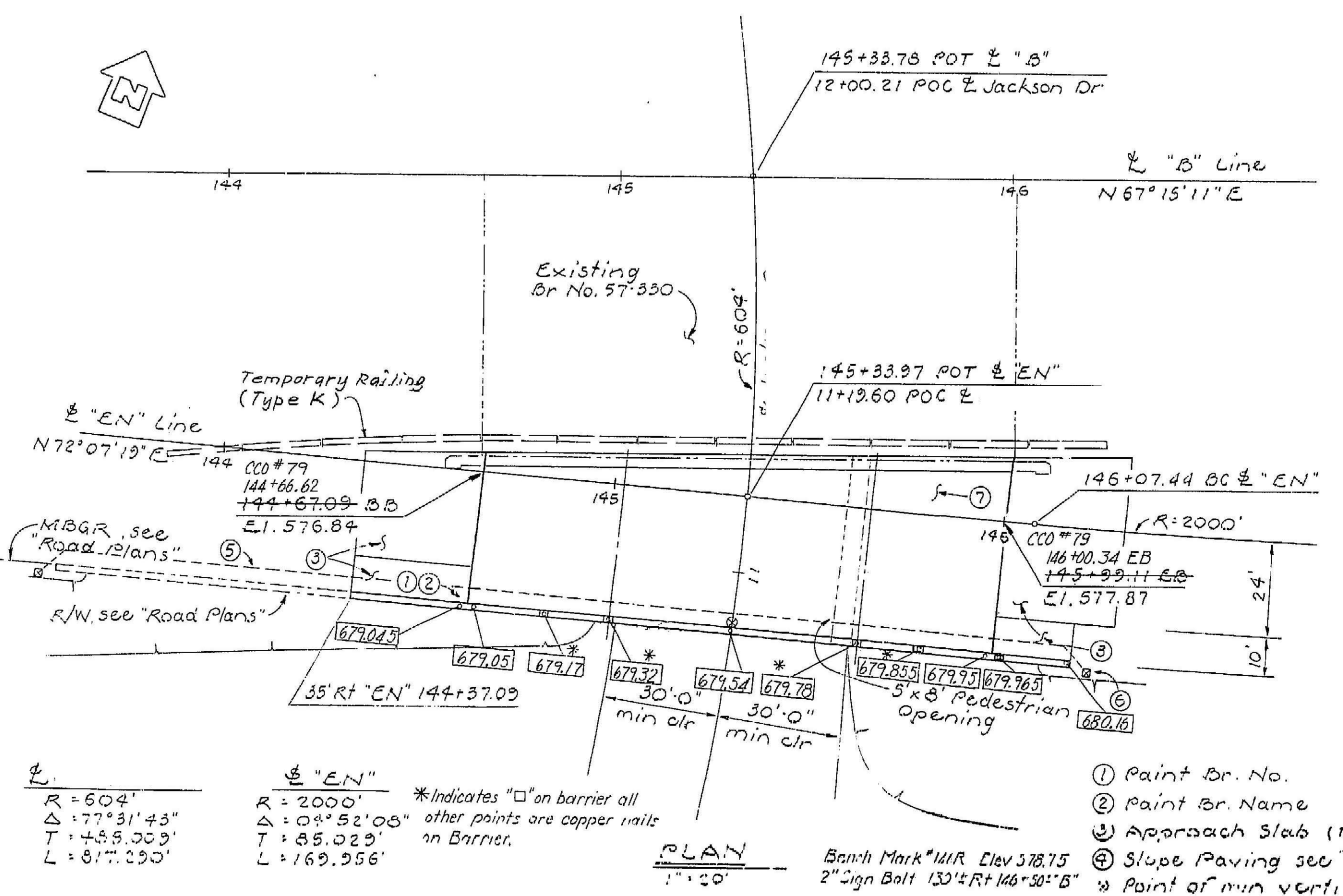
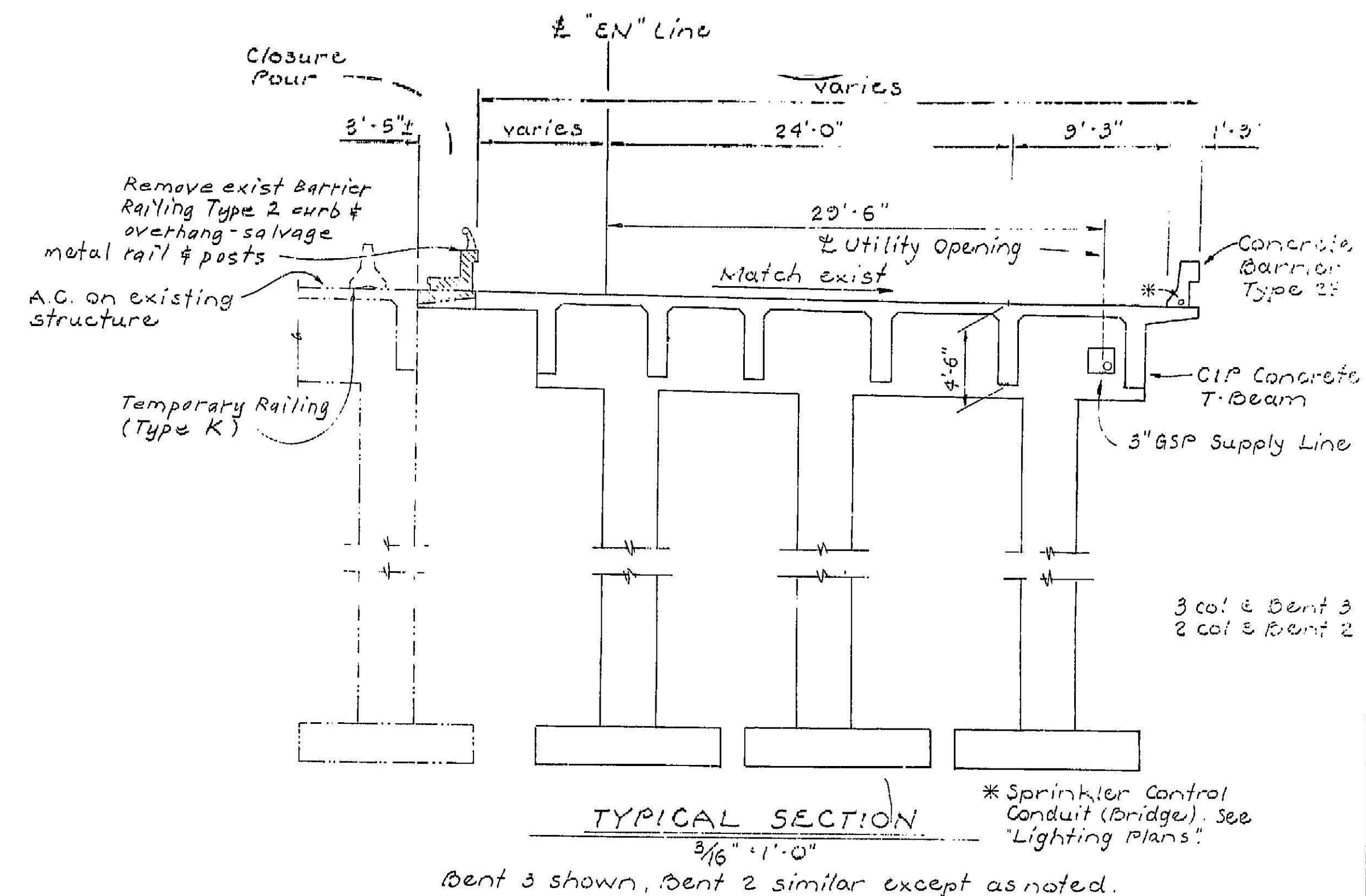
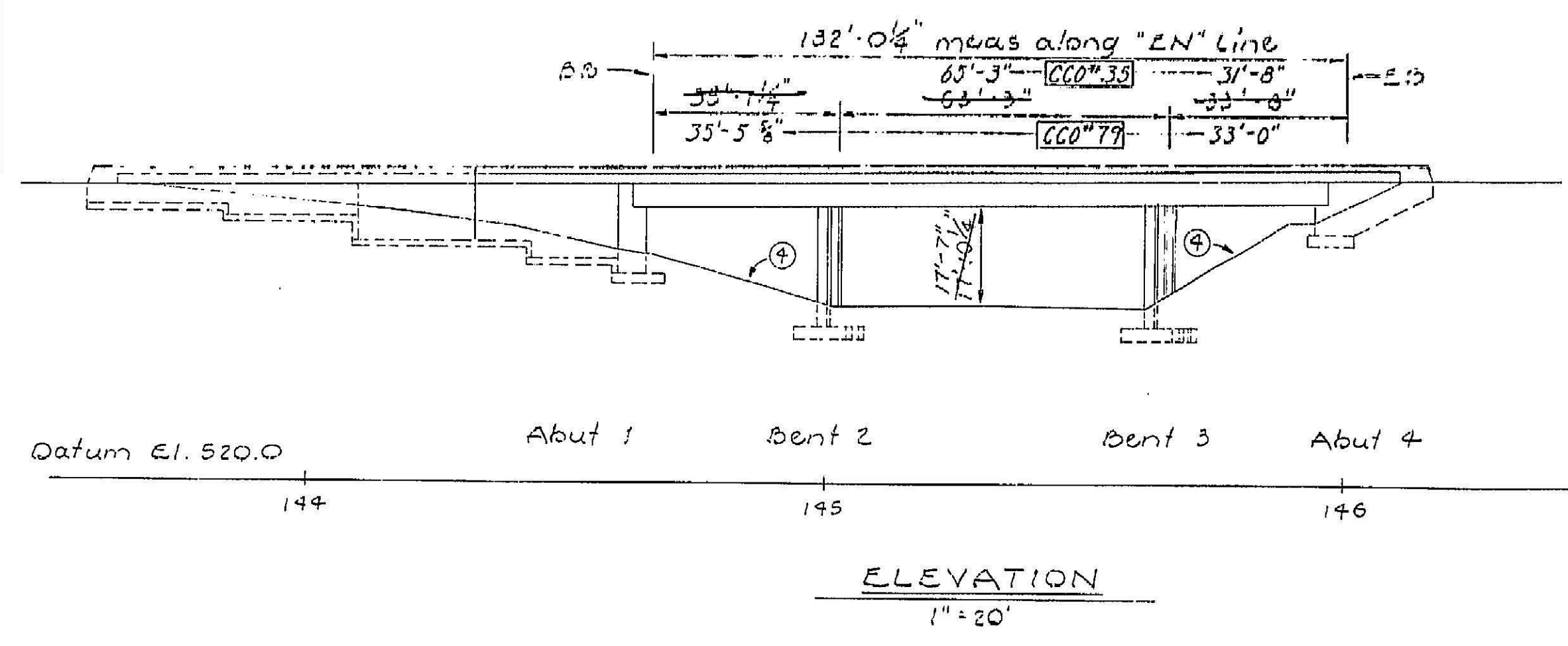


The Bridge As-Built Plans and corresponding BrDR Models are provided for example only and may not represent the modeling techniques used by your agency.



APPROXIMATE QUANTITIES

TEMPORARY RAILING (TYPE K)	460 LF
BRIDGE REMOVAL (PORTION)	LUMP SUM
3" SUPPLY LINE (BRIDGE)	193 LF
WATERSTOP	103 LF
JOINT SEAL (NR 1/2")	92 LF

FINAL PAY QUANTITIES

STRUCTURE EXCAVATION (BRIDGE)	625 CY
STRUCTURE BACKFILL (BRIDGE)	540 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	130 CY
STRUCTURAL CONCRETE, BRIDGE	450 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE 2)	96 CY
BAR REINFORCING STEEL (BRIDGE)	120,000 LB
CONCRETE BARRIER (TYPE 2.5)	184 LF

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT 1 DETAILS
4	RETAINING WALL LAYOUT
5	ABUTMENT 4 DETAILS
6	BENT 2
7	BENT 3
8	TYPICAL SECTION
9	GIRDER LAYOUT
10	GIRDER REINFORCEMENT
11 & 12	LOG OF TEST BORINGS 1 & 2

STANDARD PLANS DATED JULY 1984

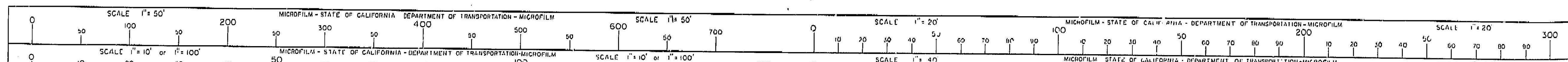
A35-B	APPROACH SLAB
A62-C	EXCAVATION AND BACKFILL - BRIDGE
B0-1	BRIDGE DETAILS
B0-3	BRIDGE DETAILS
B0-5	BRIDGE DETAILS
B0-13	BRIDGE DETAILS
B3-1	RETAINING WALL - TYPE 1 H = 4'-30"
B3-8	RETAINING WALL DETAILS NO. 1
B6-1	T-BEAM DETAILS
B6-21	JOINT SEALS
B11-53	CONCRETE BARRIER TYPE 2.5
B11-30	TEMPORARY RAILING (TYPE K)
B6-10	UTILITY OPENINGS-T-BEAM
B14-3	SUPPLY LINE & COMMUNICATION & SPRINKLER CONTROL CONDUIT

- Denotes 3" GSP limits for bridge.
- Indicates No. 5 Pull Box at finished grade.
- ⑤ 3" GSP and location of No. 5 Pull Box, see "Road Plans."
- ⑥ The 3" GSP to be capped in Pull Box.
- ⑦ For variable A.C. blanked see "Road Plans"

Standard Plan Sheet No. Detail No.

NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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UTILITIES

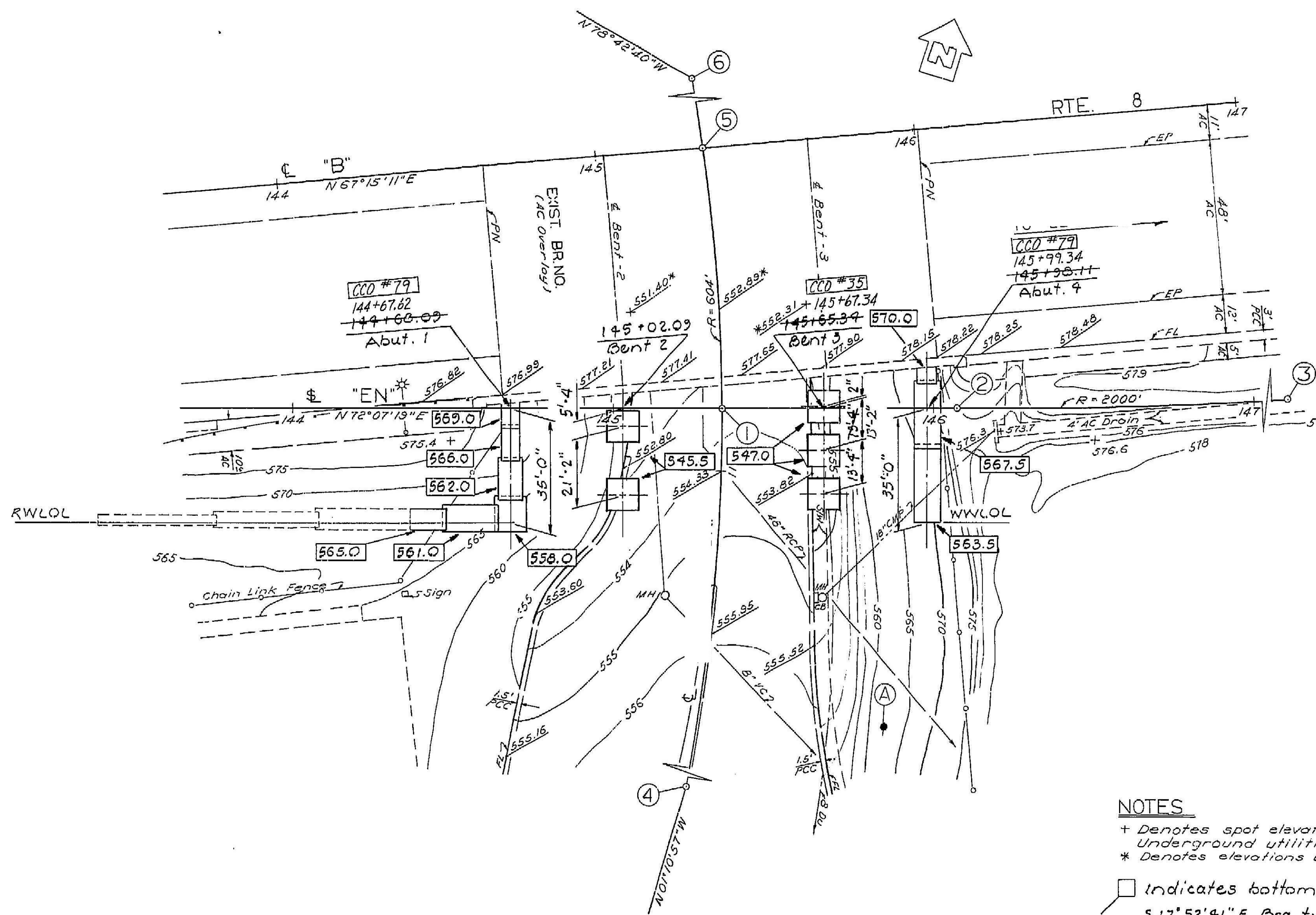
(A) PP# 673922
 2 wires S. of elev. 610'
 1 transformer 600'
 3 wires S. 330'
 2 cables into grd.
 Underground warning sign

# "EN"	# "E"
R = 2000'	R = 604'
A = 04° 52' 08"	A = 77° 31' 43"
T = 85.023'	T = 485.005'
L = 153.556'	L = 317.290'
N 234.010.507	N 221.854.543
E 7763.842.538	E 7763.815.301

**GENERAL NOTES
 LOAD FACTOR DESIGN**

DEAD LOAD: Includes 35 psf for future wearing surface.
 LIVE LOADING: HS20-44 and alternative, and permit design load.
 REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3,250$ psi
 $n = 9$
 Transverse deck slabs (working Stress Design)
 $f_s = 20,000$ psi
 $f'_c = 1,200$ psi
 $n = 10$

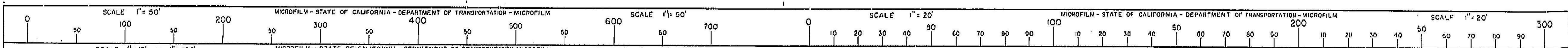
FOOTING PRESSURE (TONS PER SF) (S.L.)	ALLOWABLE	DESIGN
Abut 1	2.5	2.0
Bent 2	4.0	4.0
Bent 3	4.0	4.0
Abut 4	2.5	2.0
Wingwalls (All)	2.0	Std. Plans

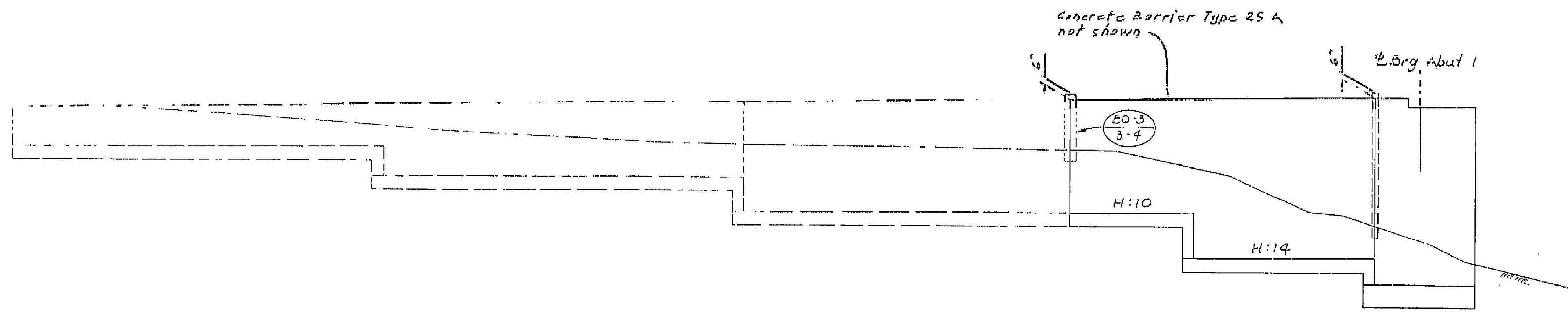


NOTES
 + Denotes spot elevation.
 Underground utilities as shown are approximate.
 * Denotes elevations under bridge.
 □ Indicates bottom of ftg elev.
 S 17° 52' 41" E Brg typ e Abuts & Bents

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL
 CONTROLLING FIELD DIMENSIONS
 BEFORE ORDERING OR FABRICATING

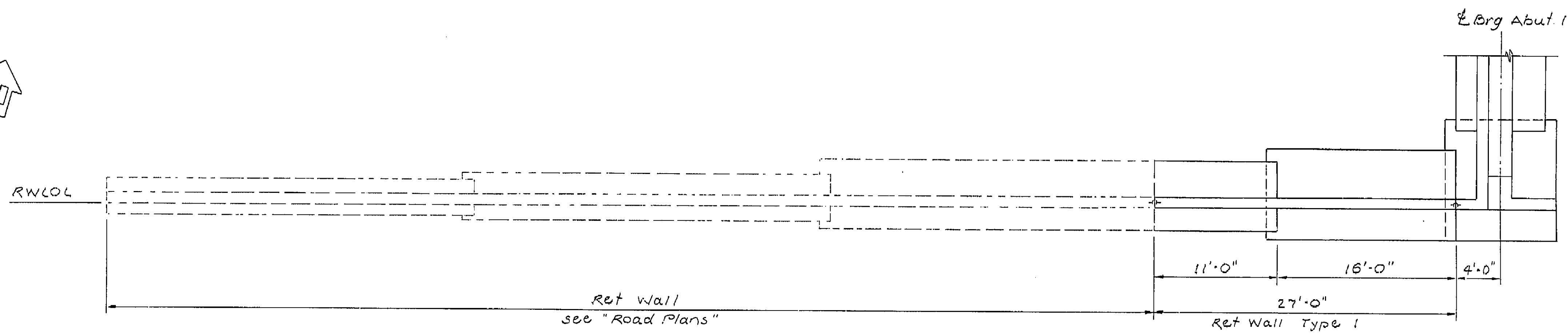
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ELEVATION

$\frac{3}{16}'' = 1'-0''$

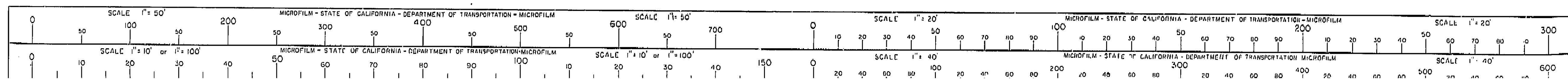


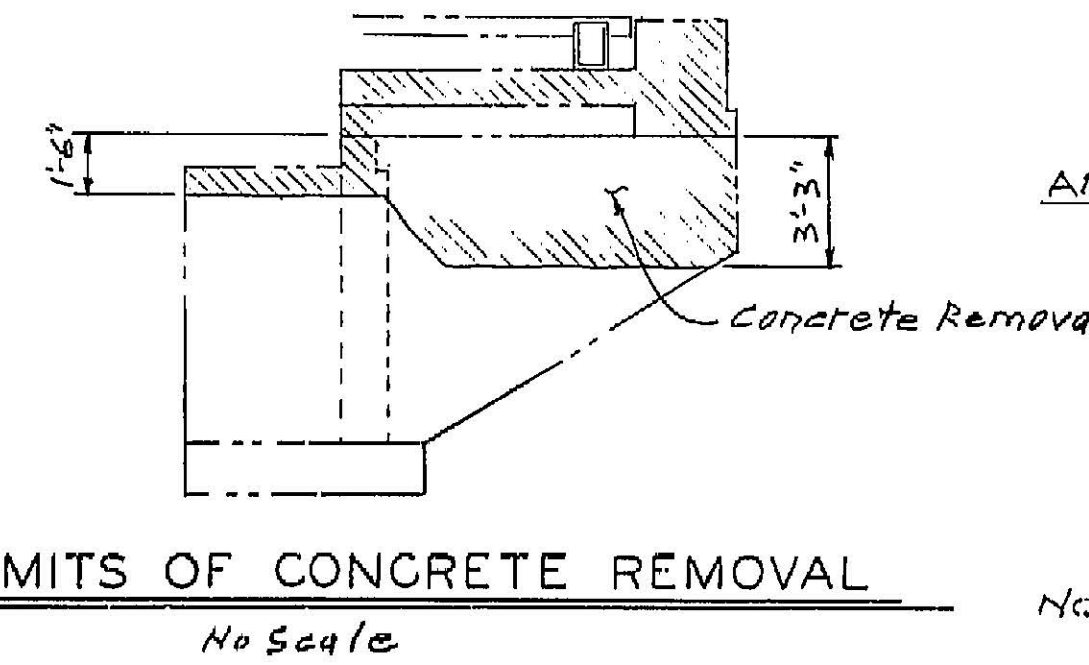
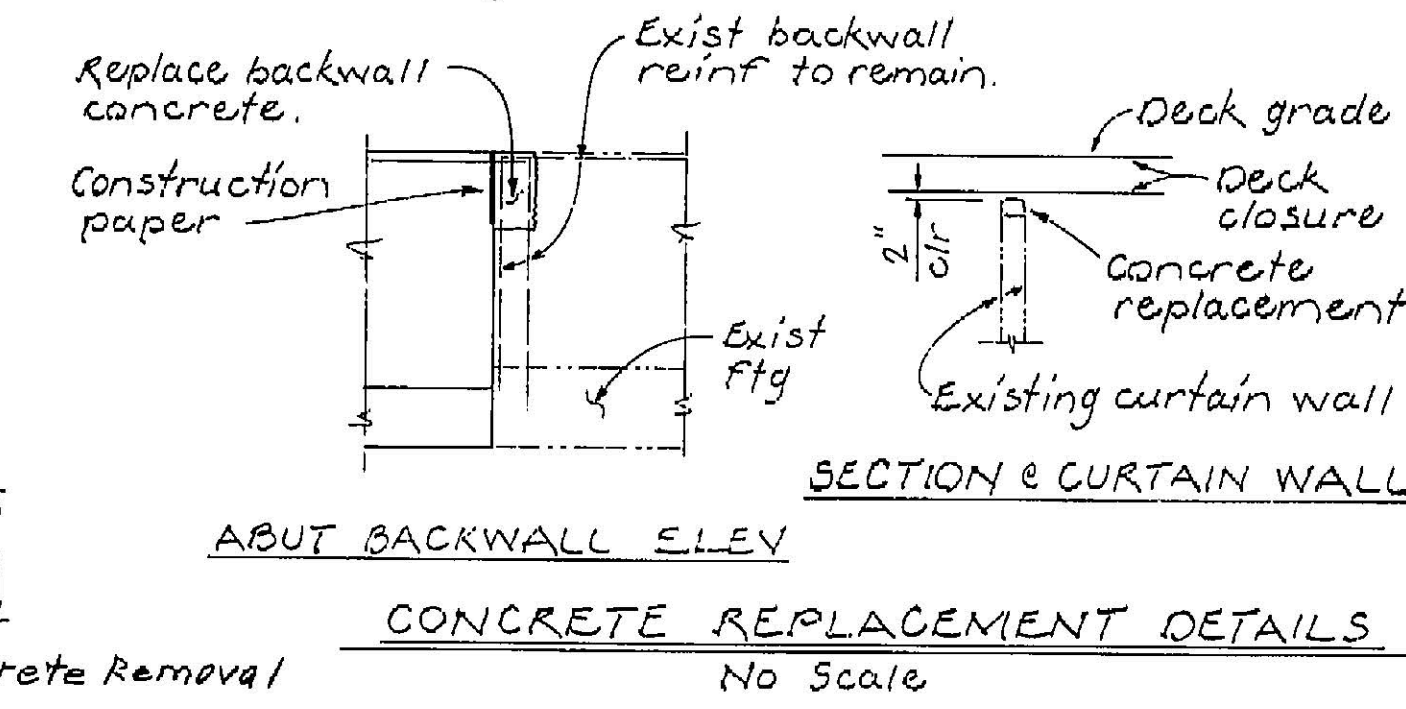
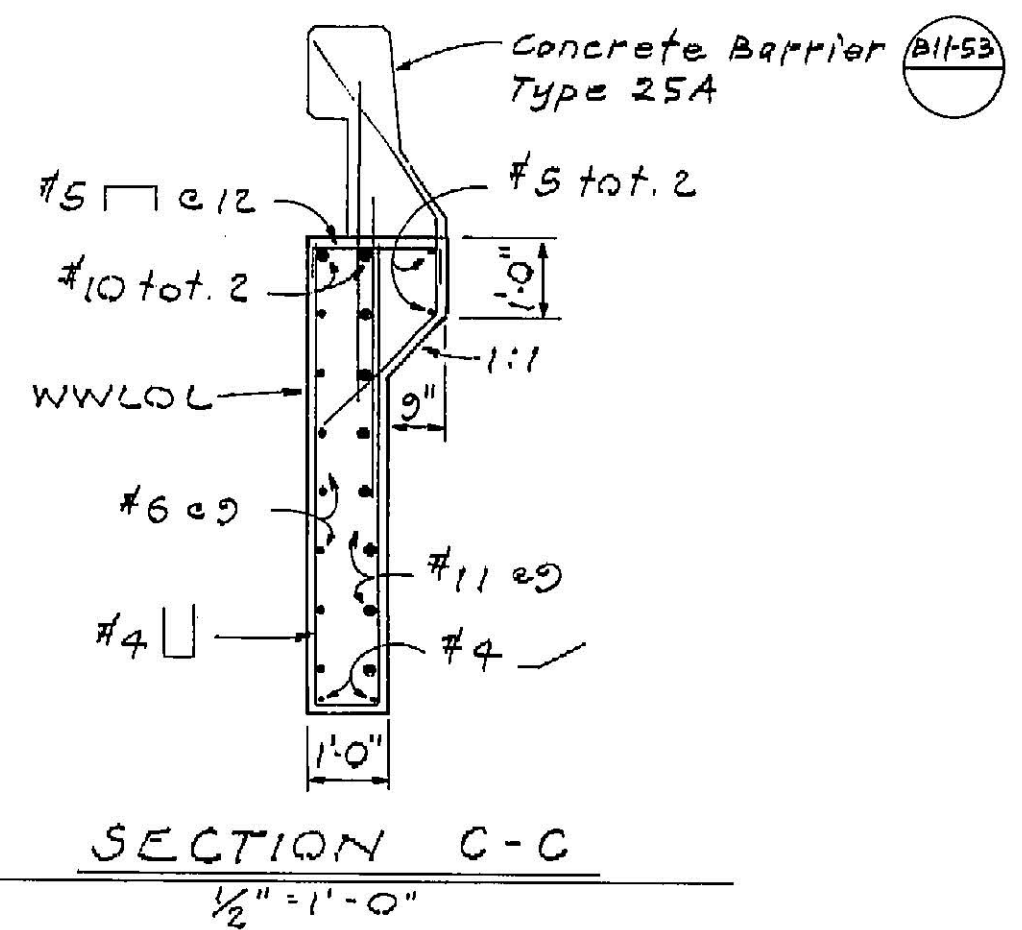
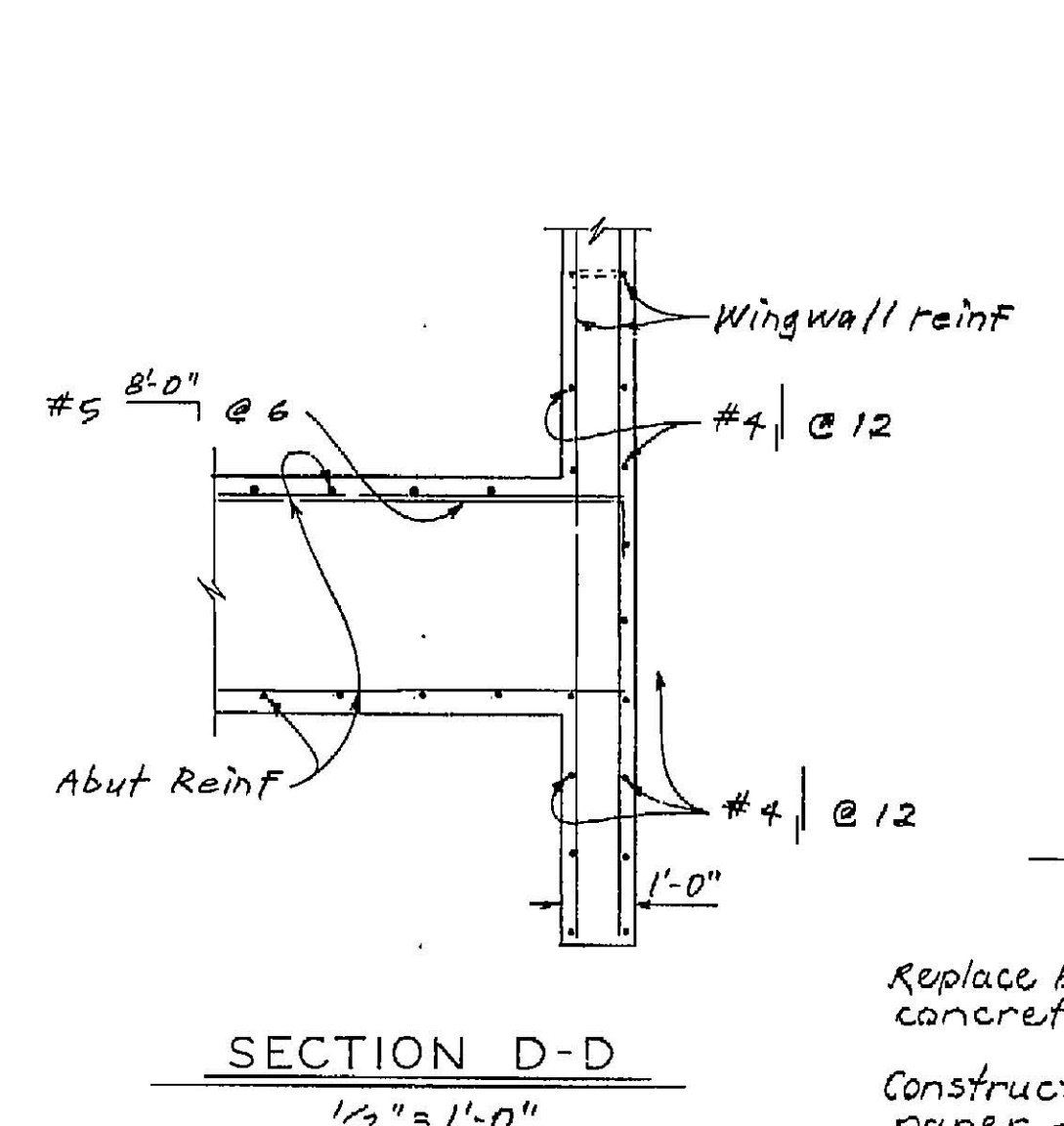
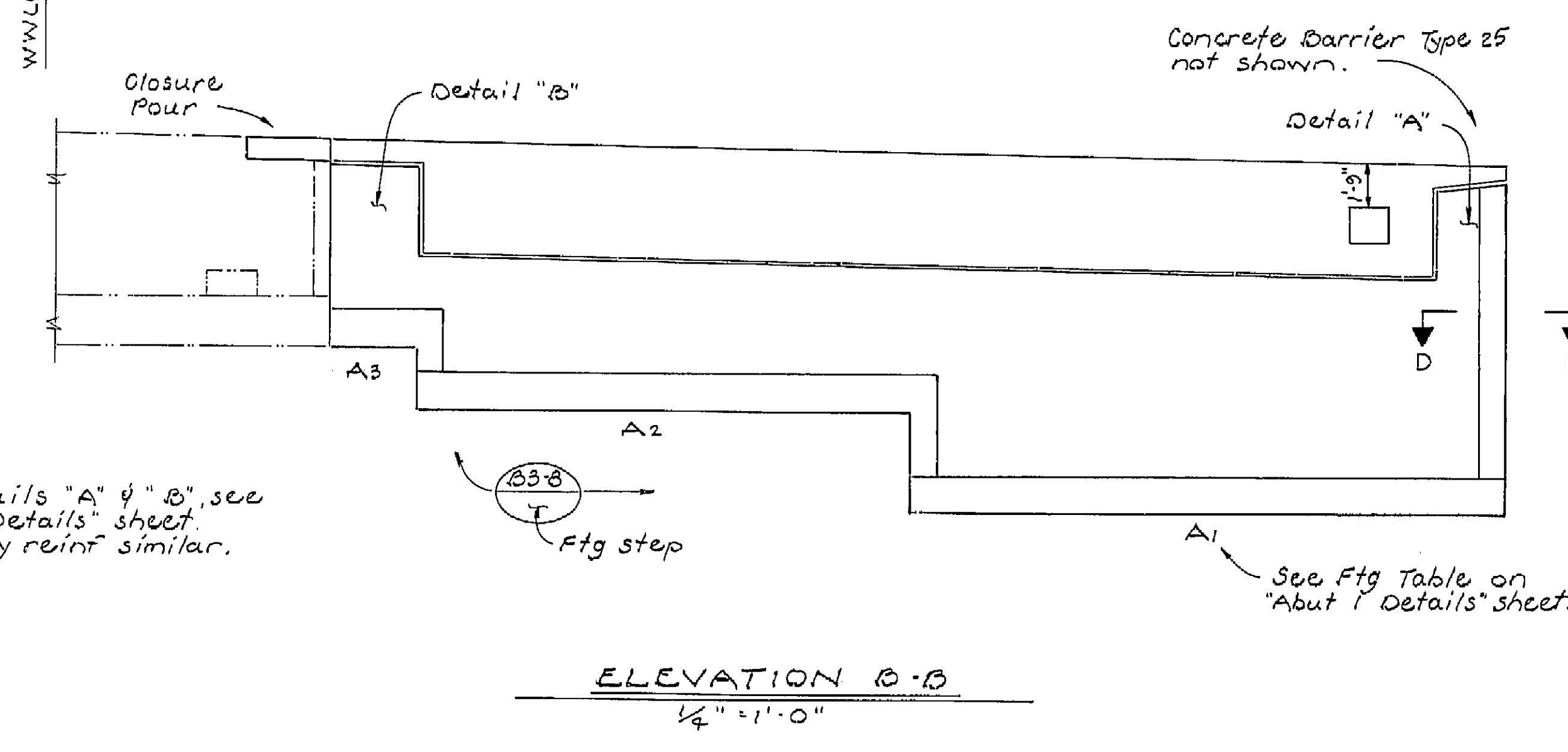
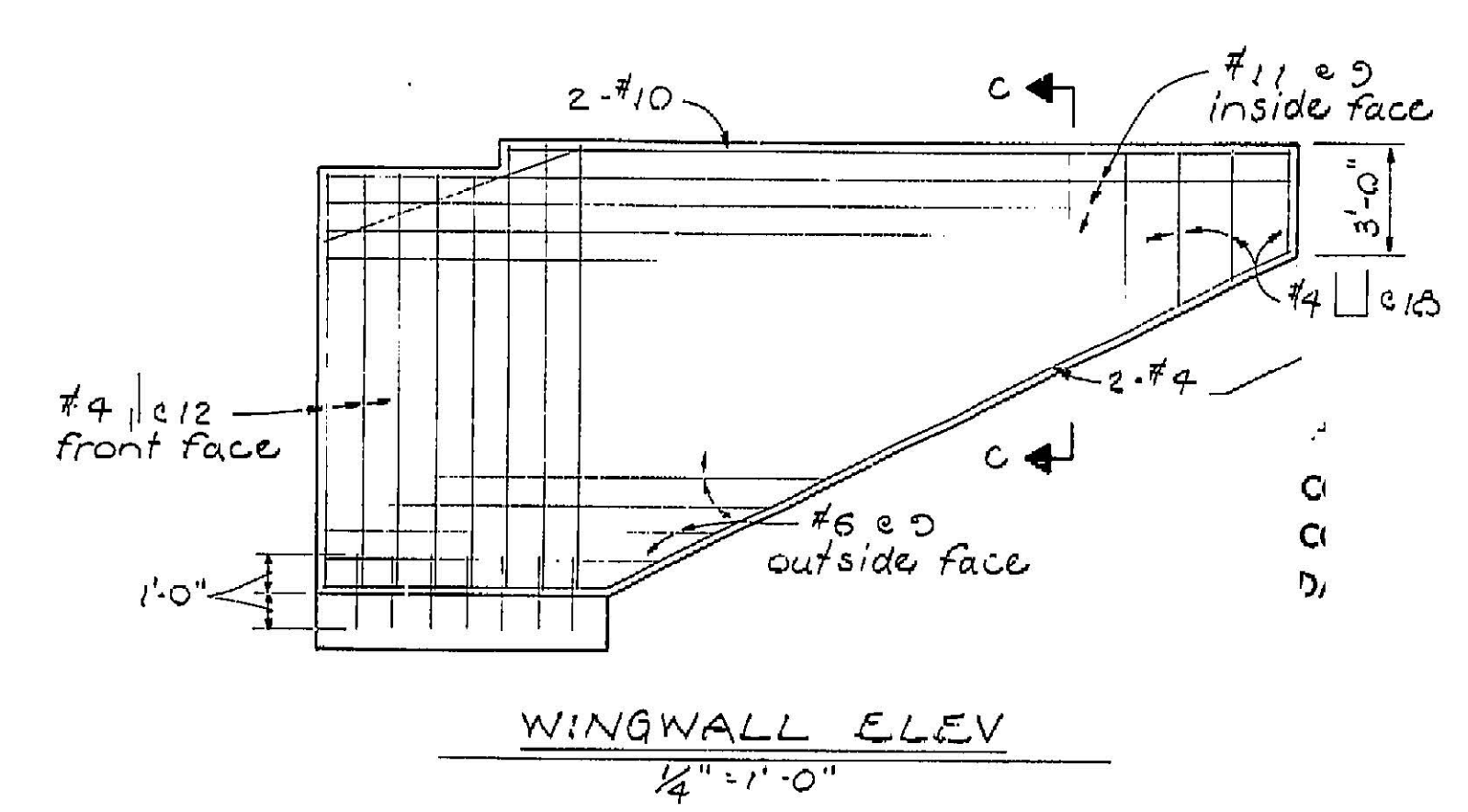
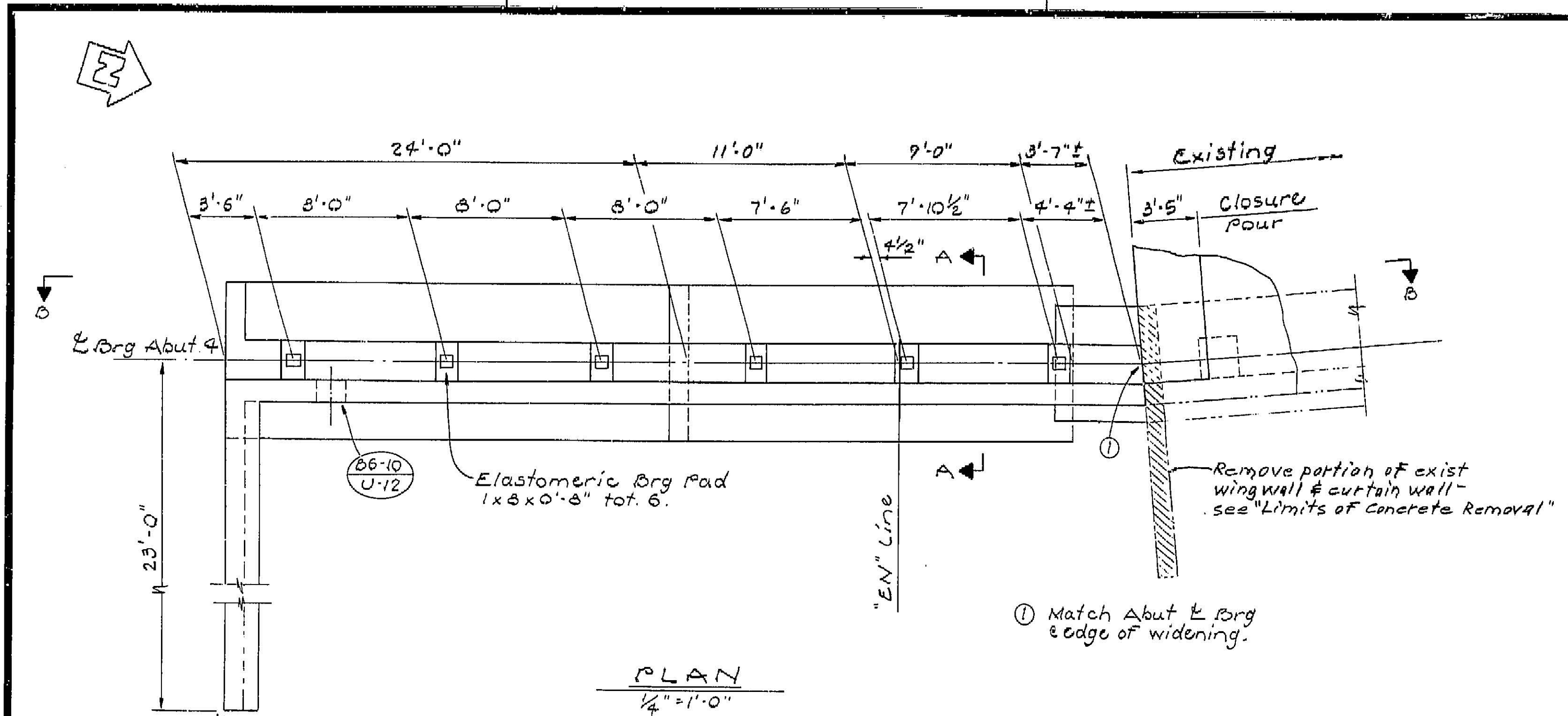
PLAN

$\frac{3}{16}'' = 1'-0''$

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

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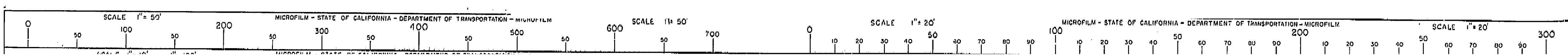


Note:
For Details "A" & "B", see
"Abut 1 Details" sheet.
Shear key reinf similar.

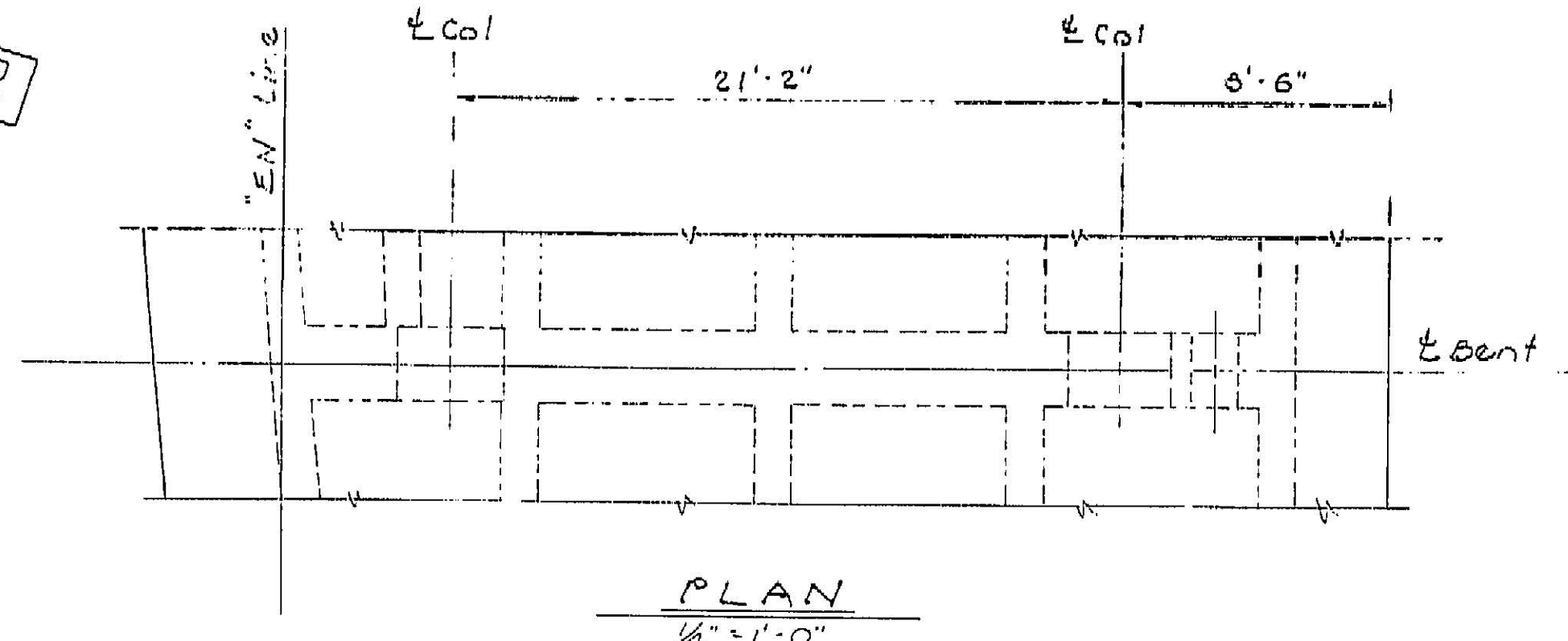
NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

Note: For details not shown, see
"Abut. 1 Details" sheet.

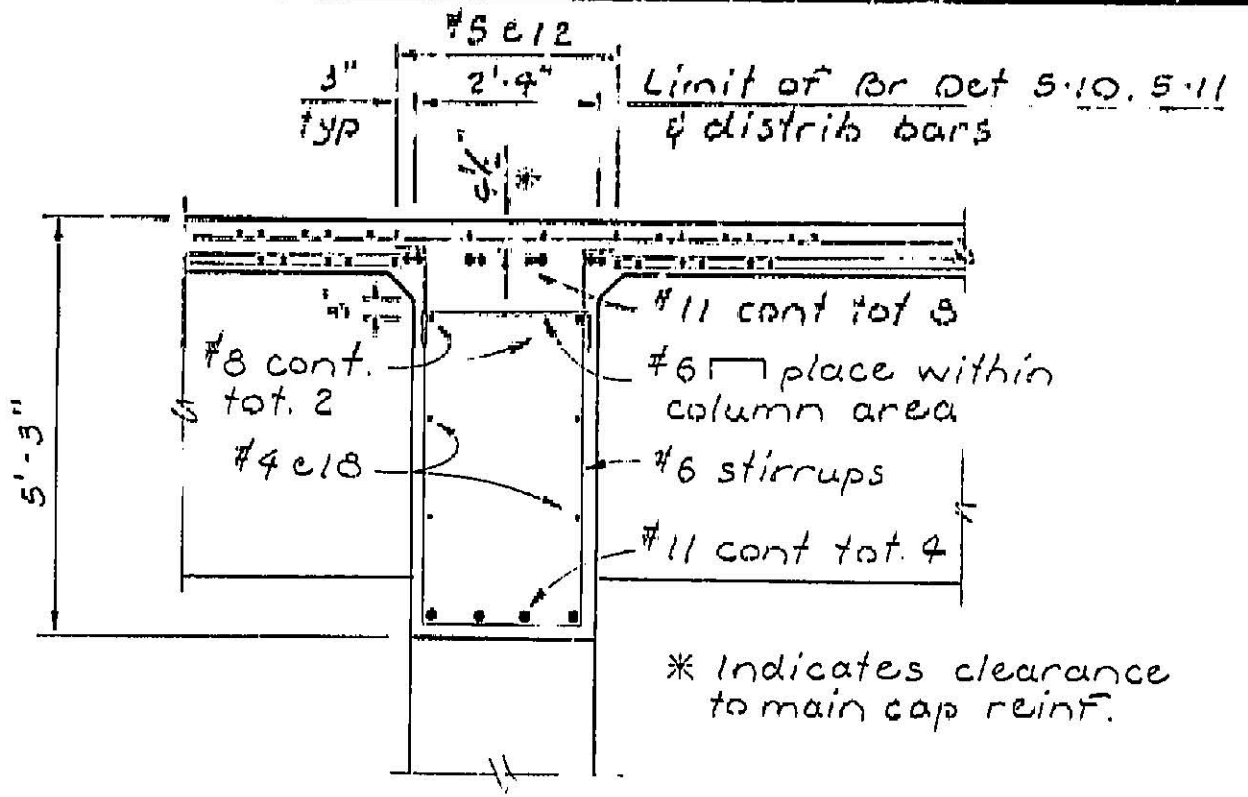
388



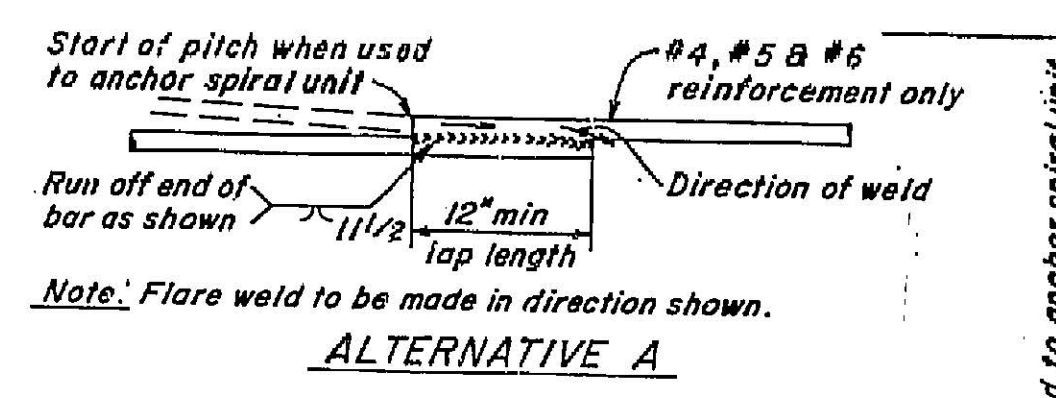
3



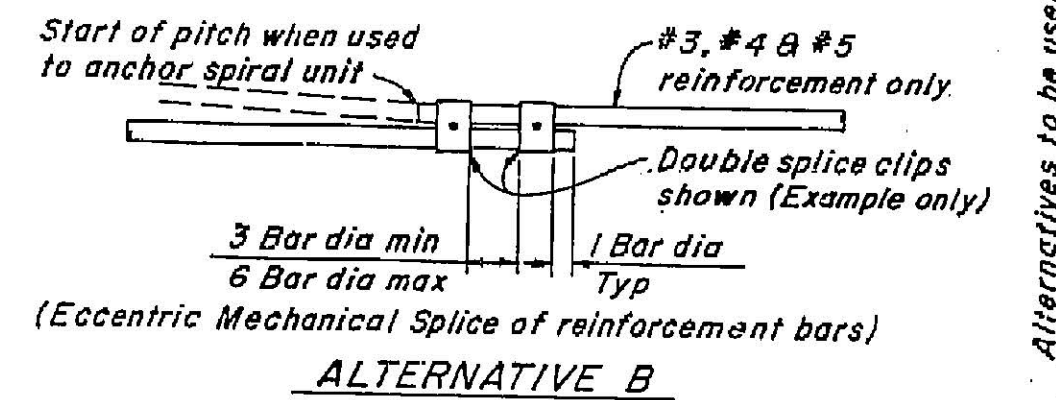
PLAN
1/4" = 1'-0"



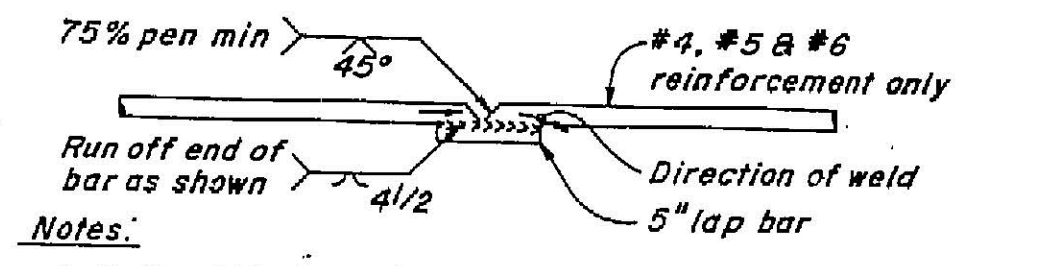
SECTION A-A
1/2" = 1'-0"



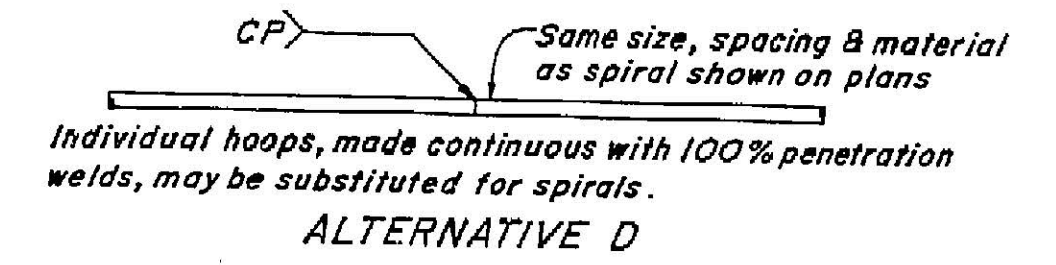
ALTERNATIVE A



ALTERNATIVE B

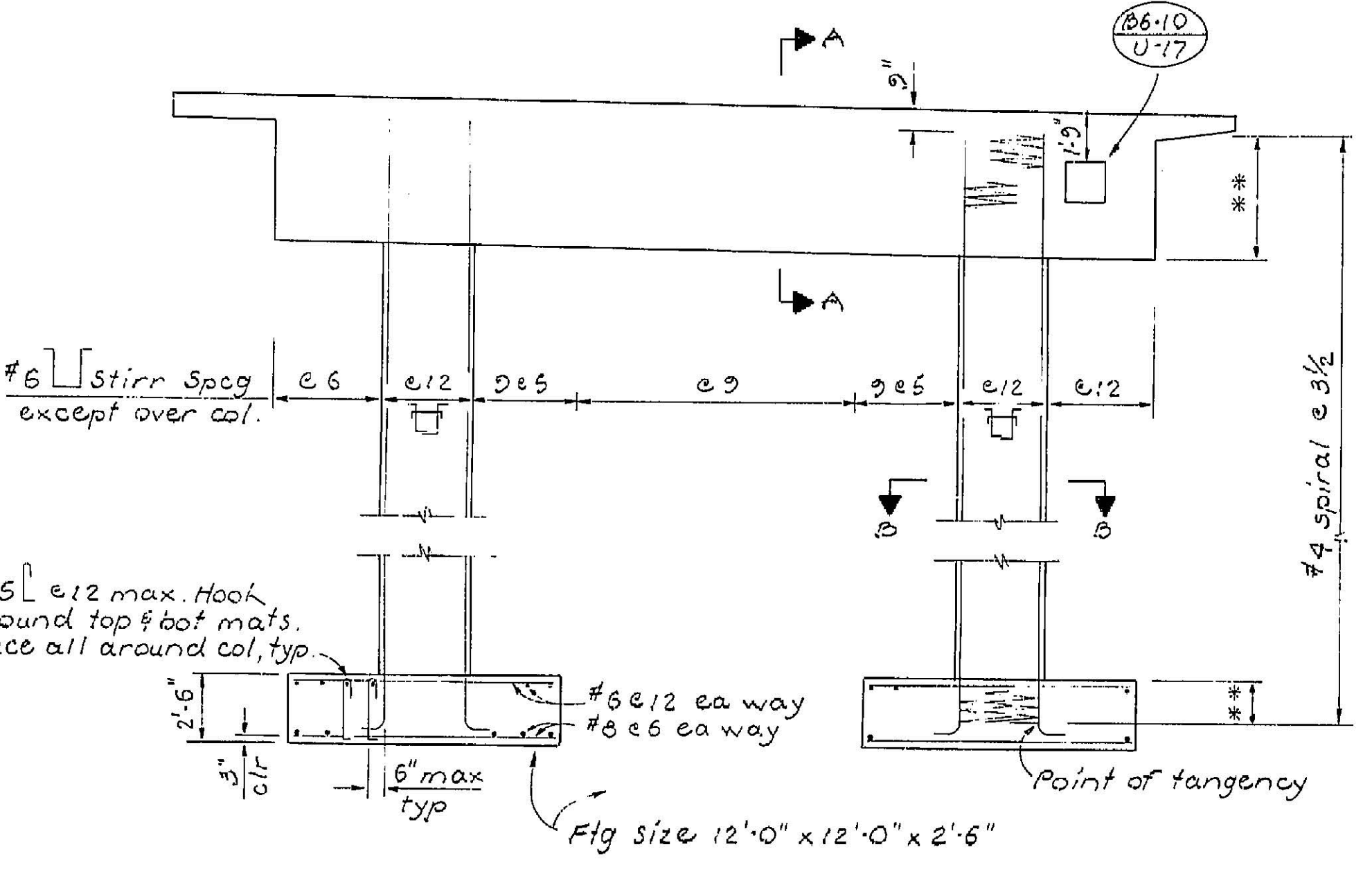


ALTERNATIVE C



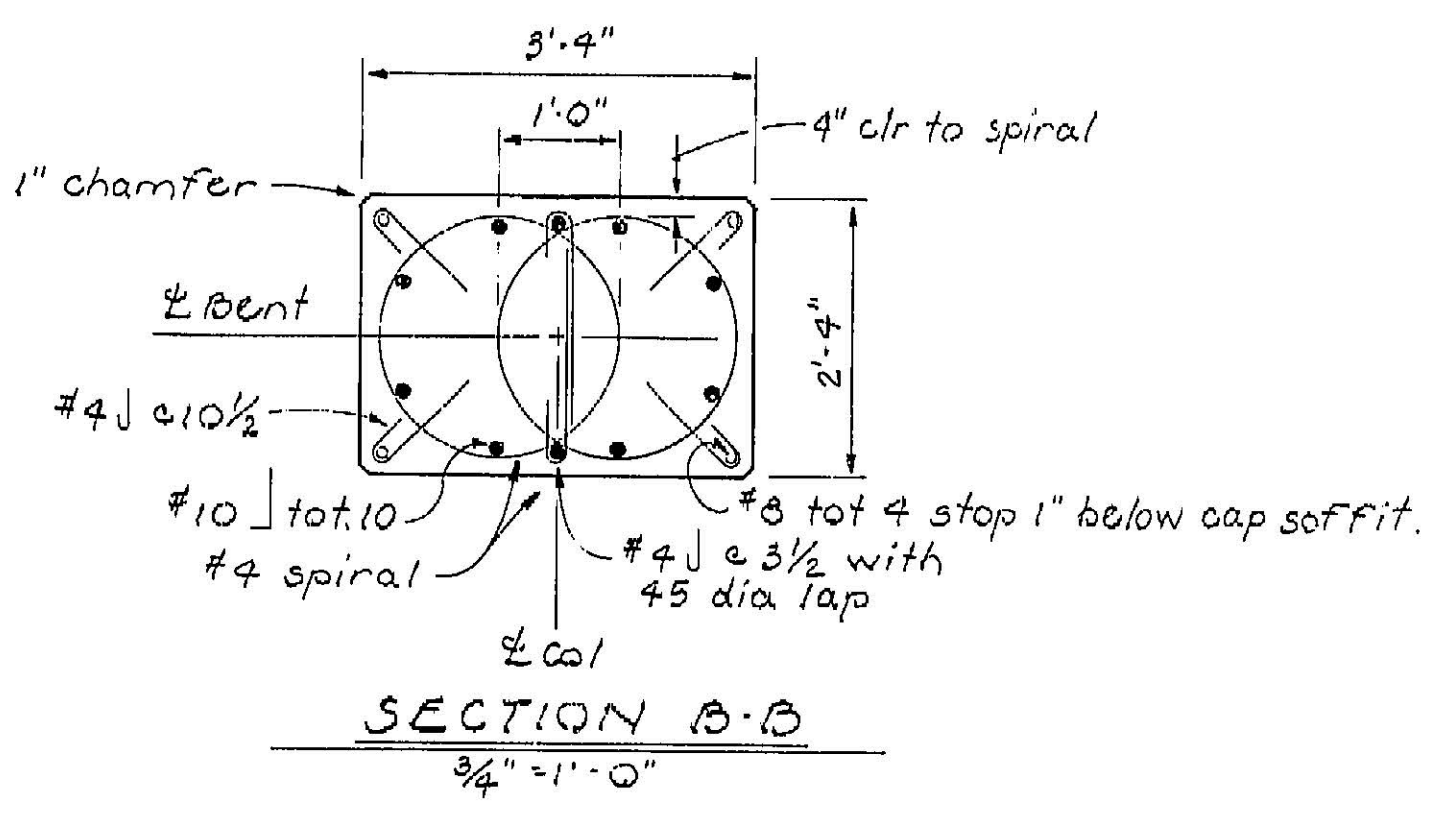
ALTERNATIVE D

Alternatives to be used to anchor spiral unit



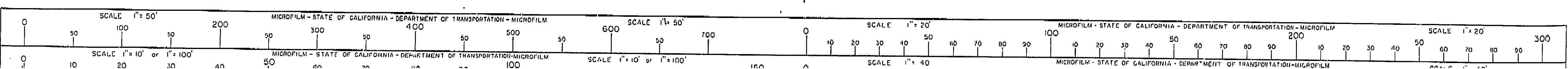
ELEVATION
1/4" = 1'-0"

** Extend column spiral into footing & bent cap at same pitch as in column. Spiral may be discontinuous at the bottom of bent cap reinf & top of fig reinf.

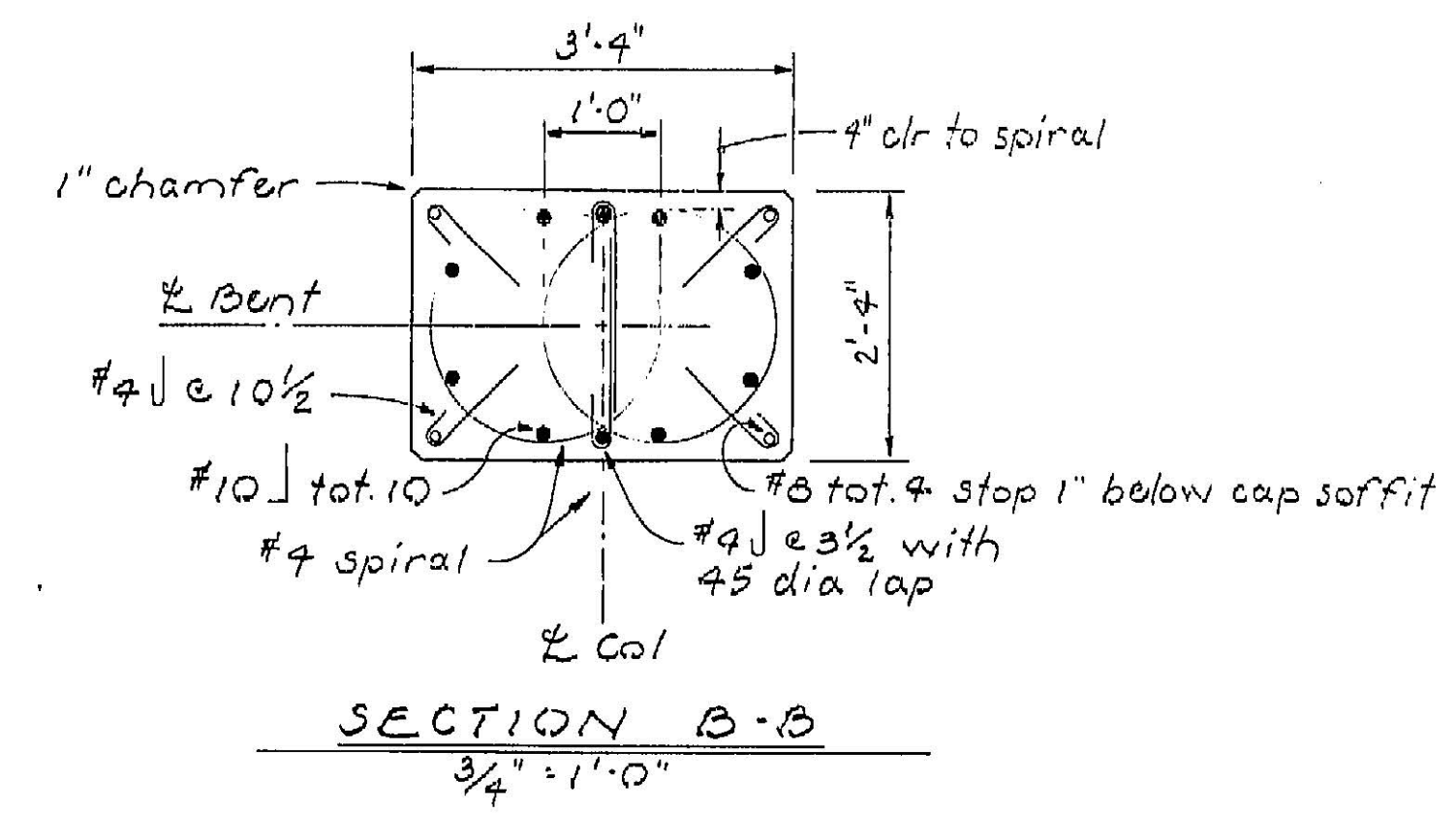
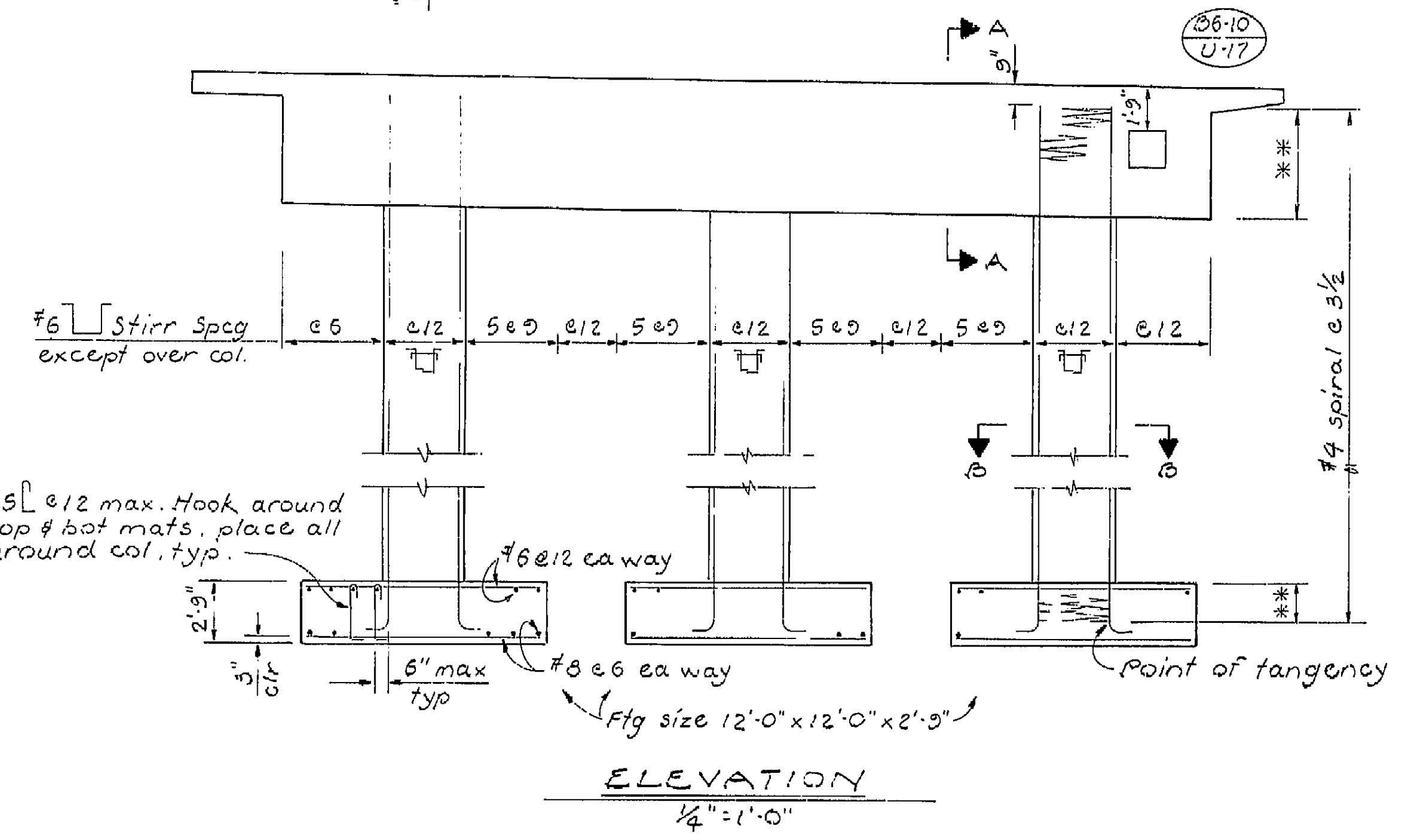
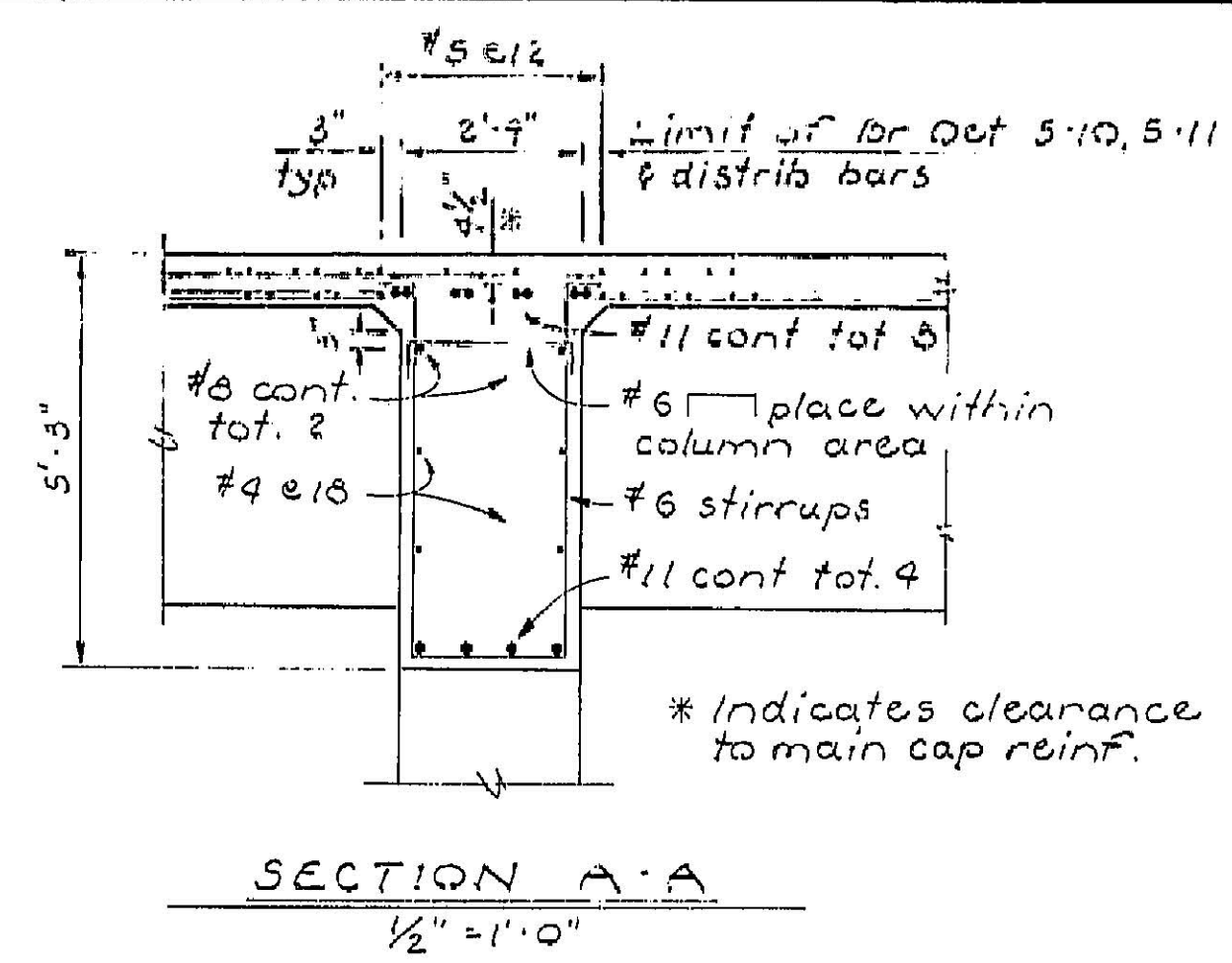
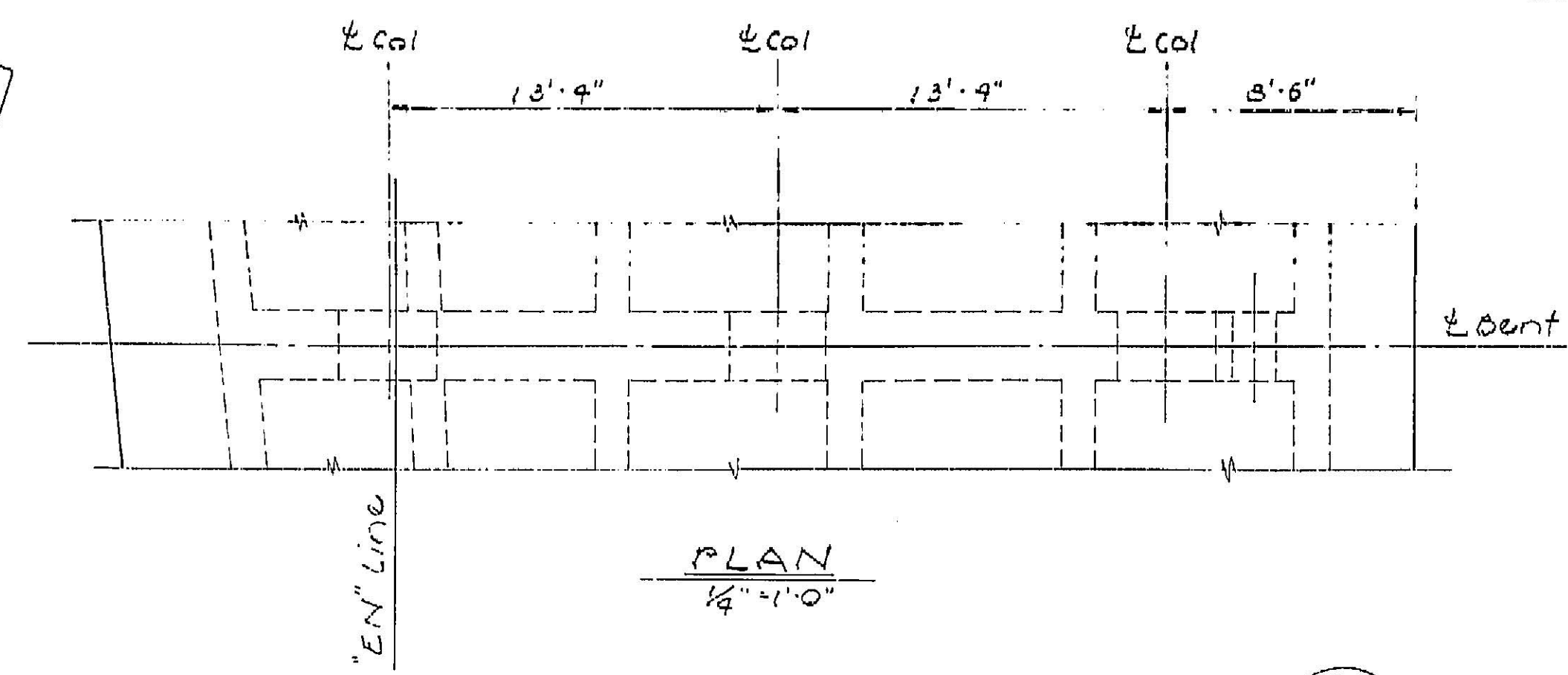


SECTION B-B
3/4" = 1'-0"

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3

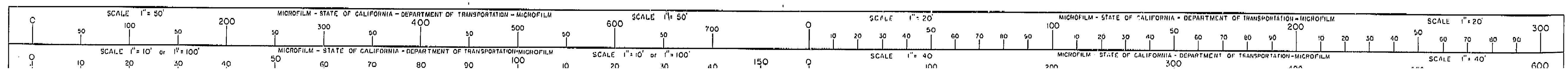


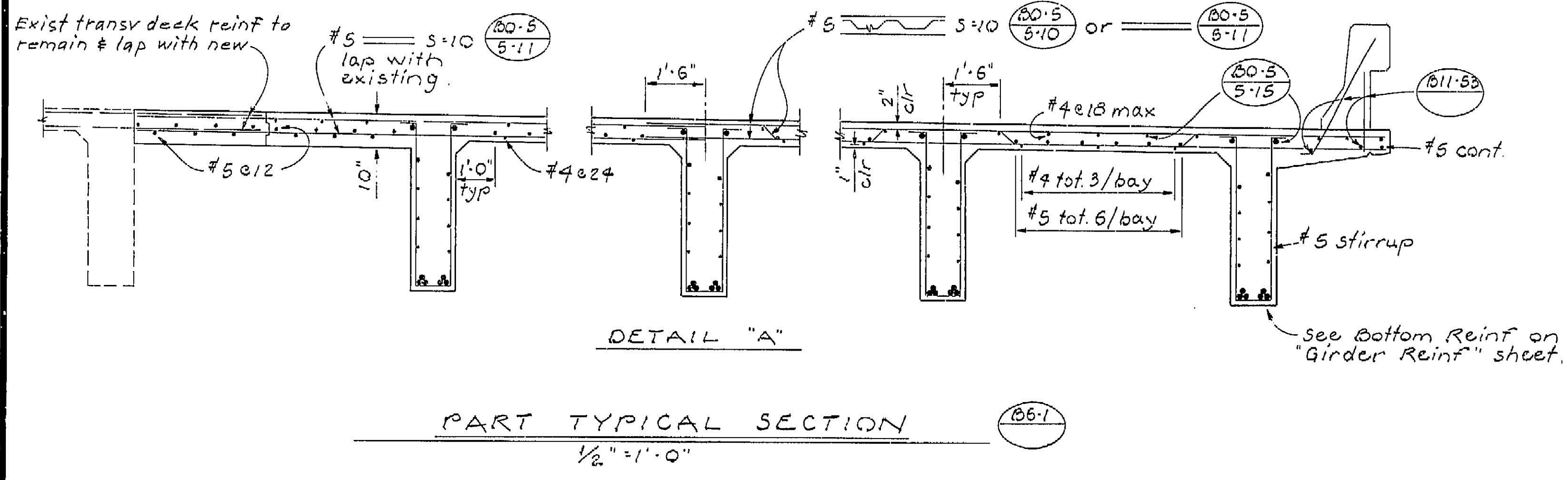
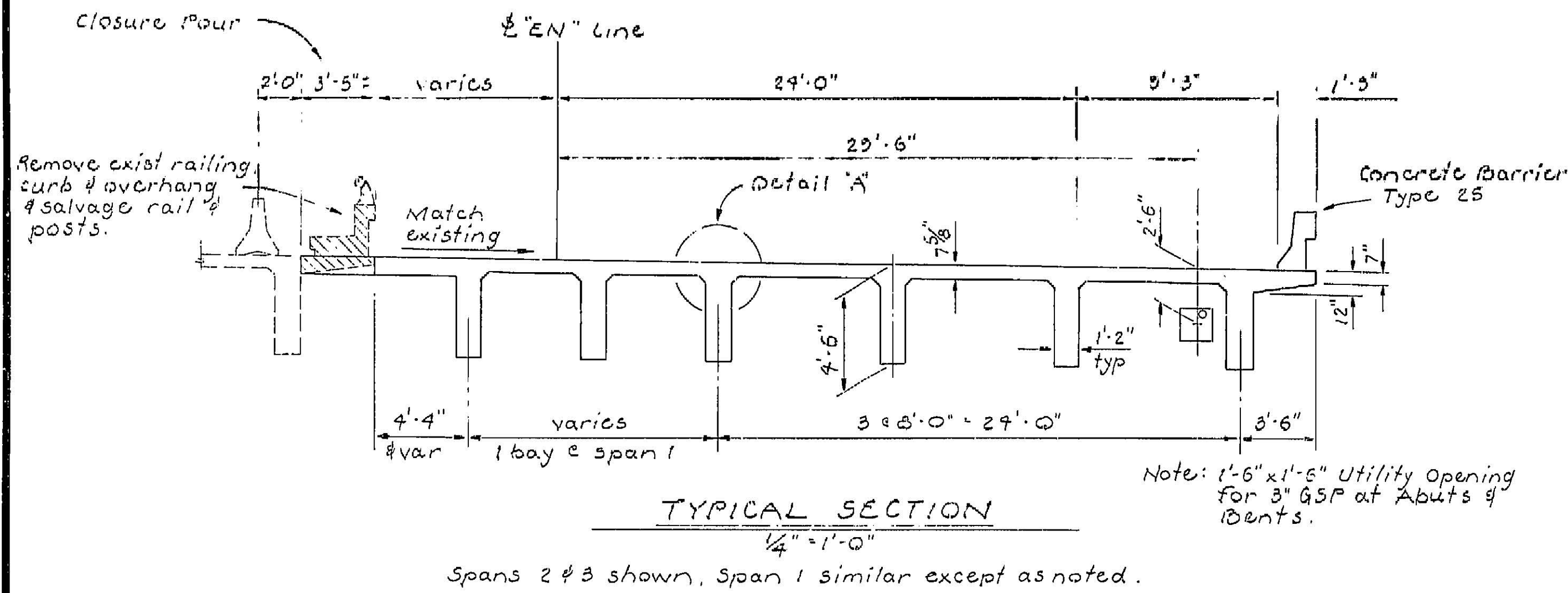
** Extend column spiral into footing & bent cap at same pitch as in column. Spiral may be discontinuous at the bottom of bent cap reinf & top of Ftg reinf.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Note: For details not shown, see "Bent 2" sheet

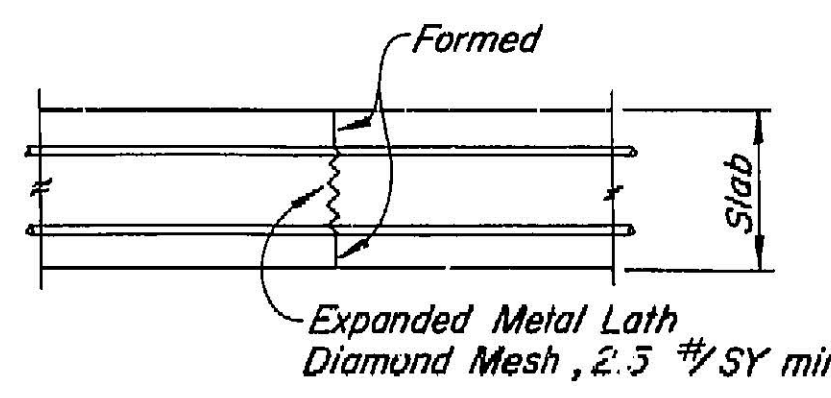
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FALSEWORK RELEASE

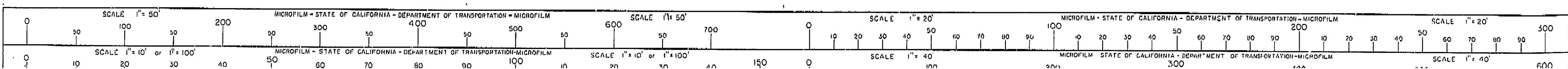
Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

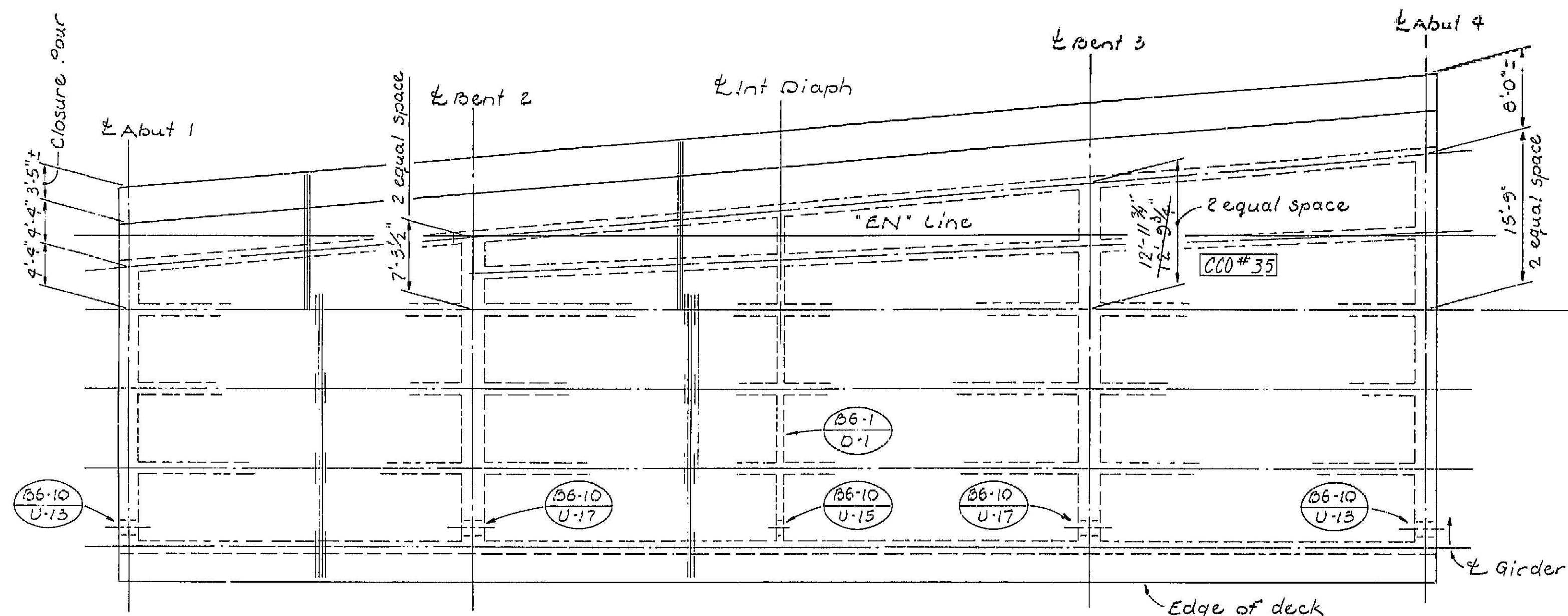


**ALTERNATIVE DECK CONSTRUCTION JOINT
 TOP OR BOTTOM SLAB**

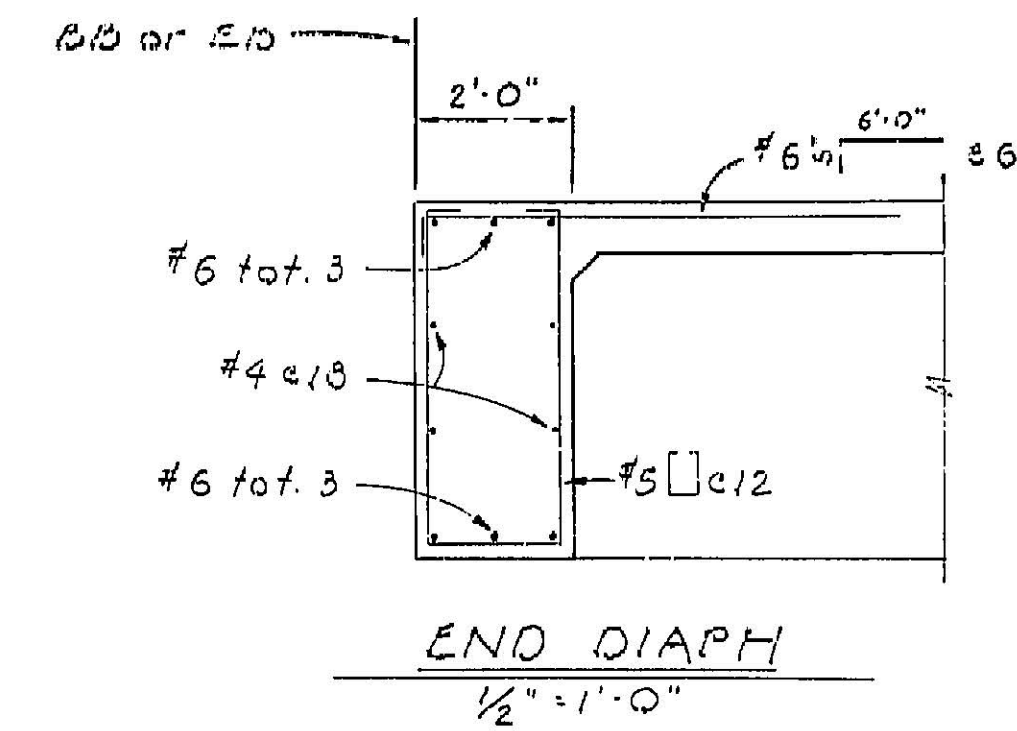
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

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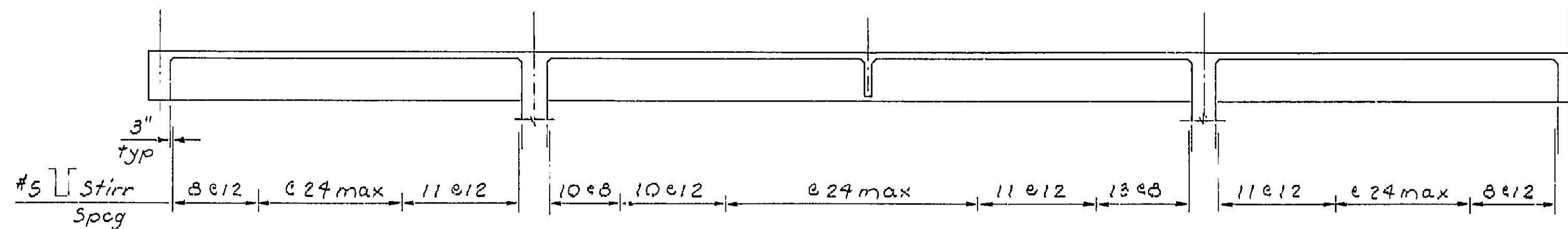




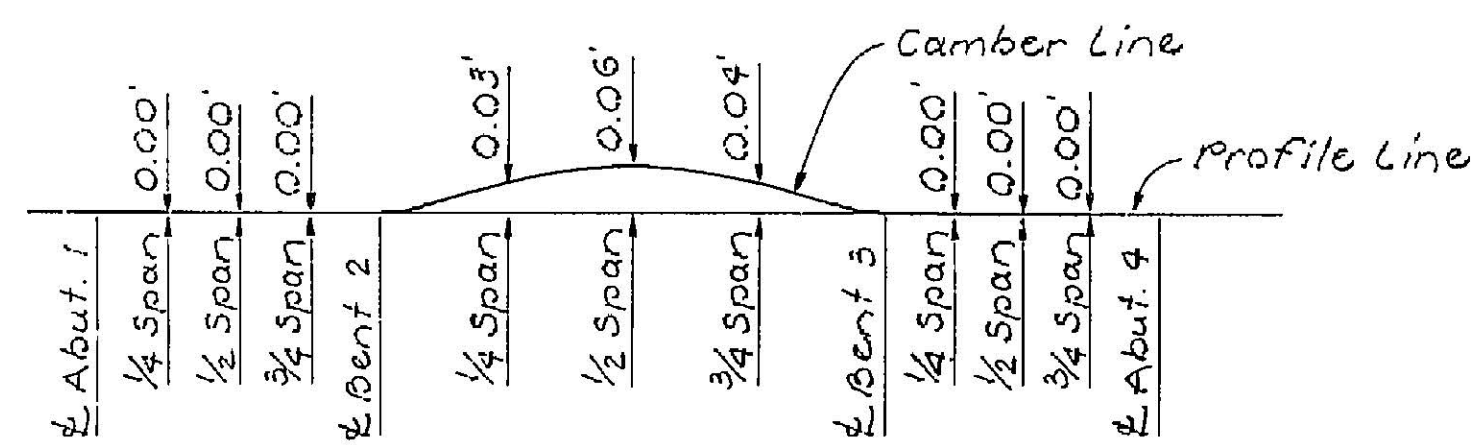
PLAN
1/8" = 1'-0"



END DIAPHRAGM
1/2" = 1'-0"



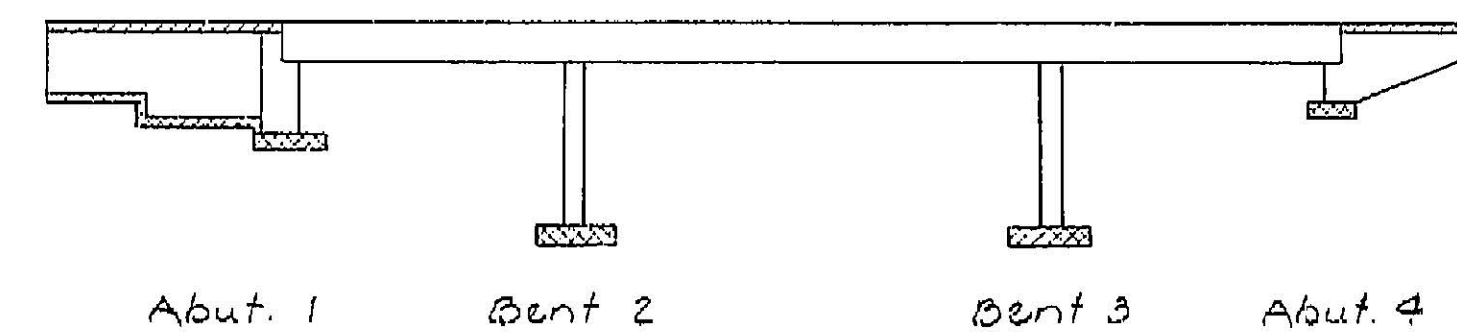
LONGITUDINAL SECTION
1/8" = 1'-0"



CAMBER DIAGRAM

No Scale

Does not include allowance for falsework settlement

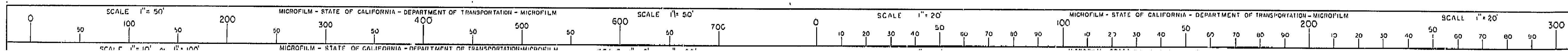


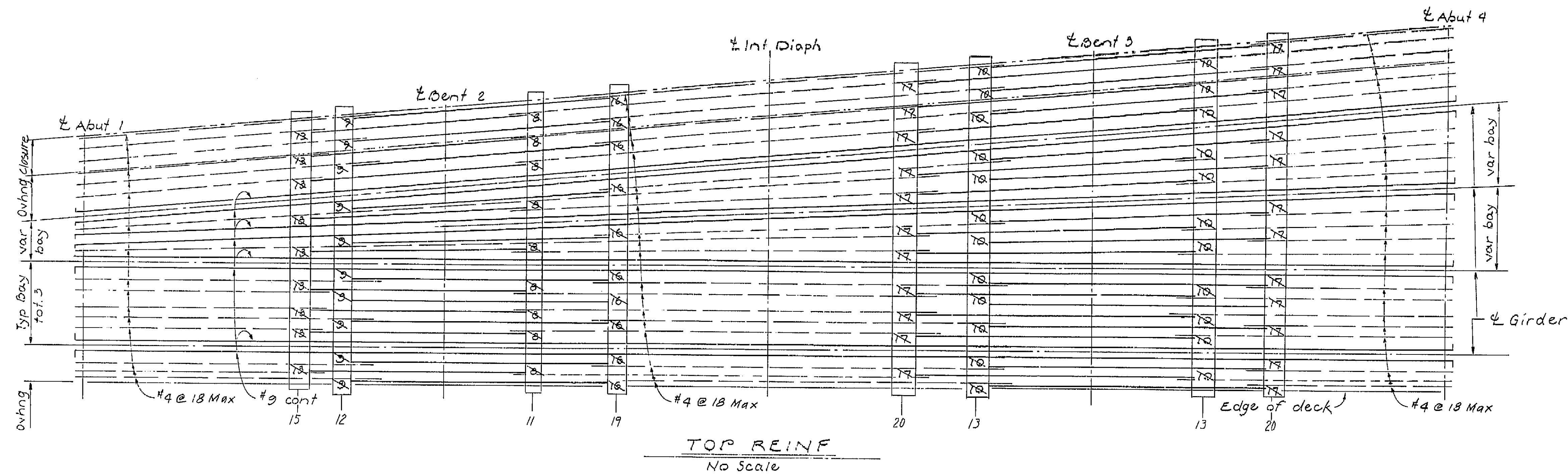
CONCRETE TYPE LIMITS

- Str Conc. Br
- Str Conc. Br. Ptg
- Str Conc. Approach Slab

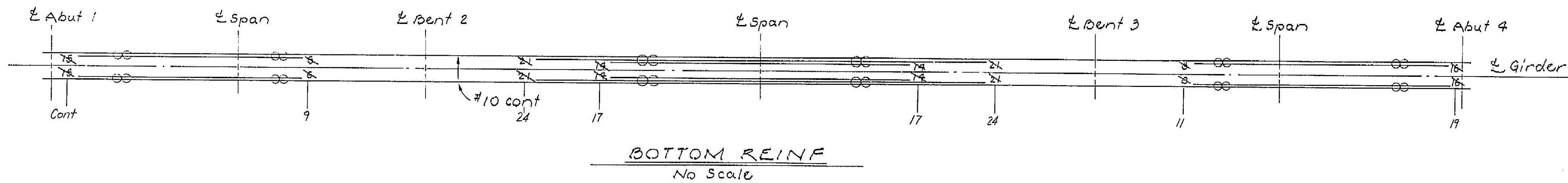
NOTE:
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BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

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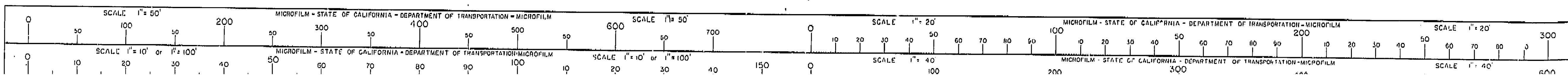
CCO #35



CCO #35

Note:
 All reinf #9 for top reinf & #10 for bottom reinf unless otherwise noted. Numbers at ends of bars indicate distance in feet from \perp Bent for top reinf & \perp Span for bottom reinf.
 $\text{---}\text{---}$ Indicates bundled bars.

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LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS

CONSISTENCY CLASSIFICATION FOR SOILS

UNIFIED SOIL CLASSIFICATION SYSTEM

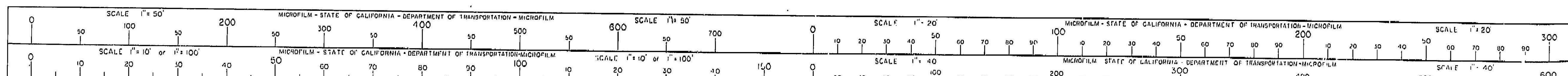
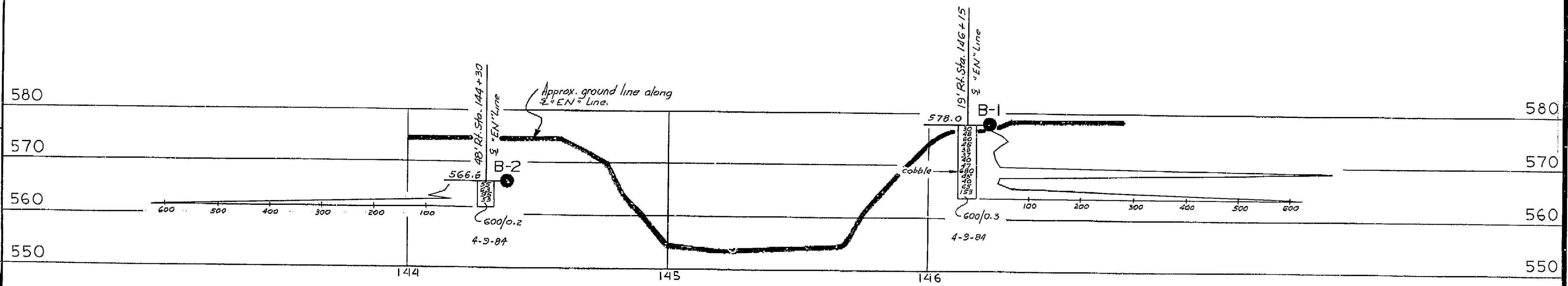
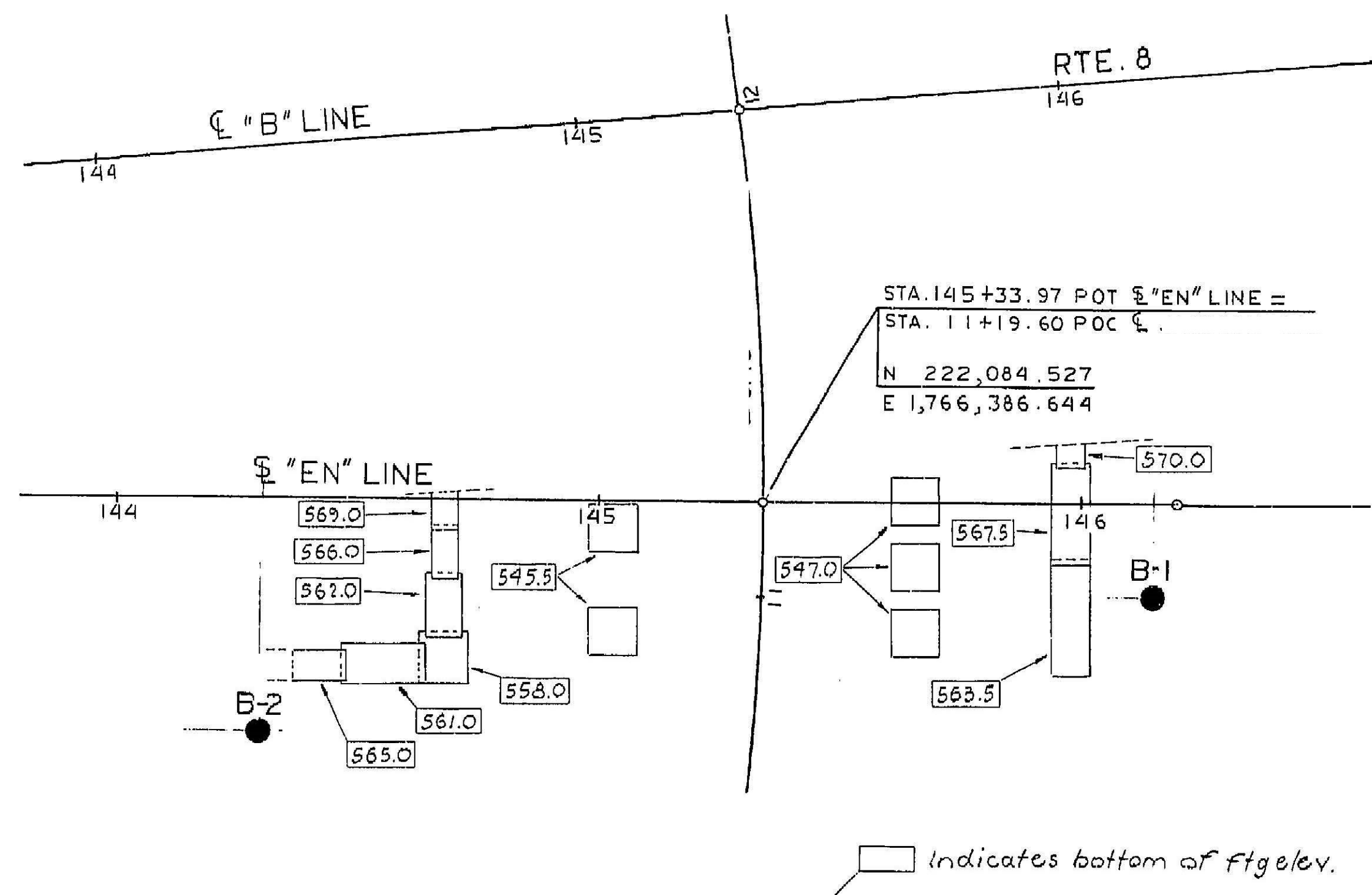
NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

LEGEND OF BORING OPERATIONS (continued)

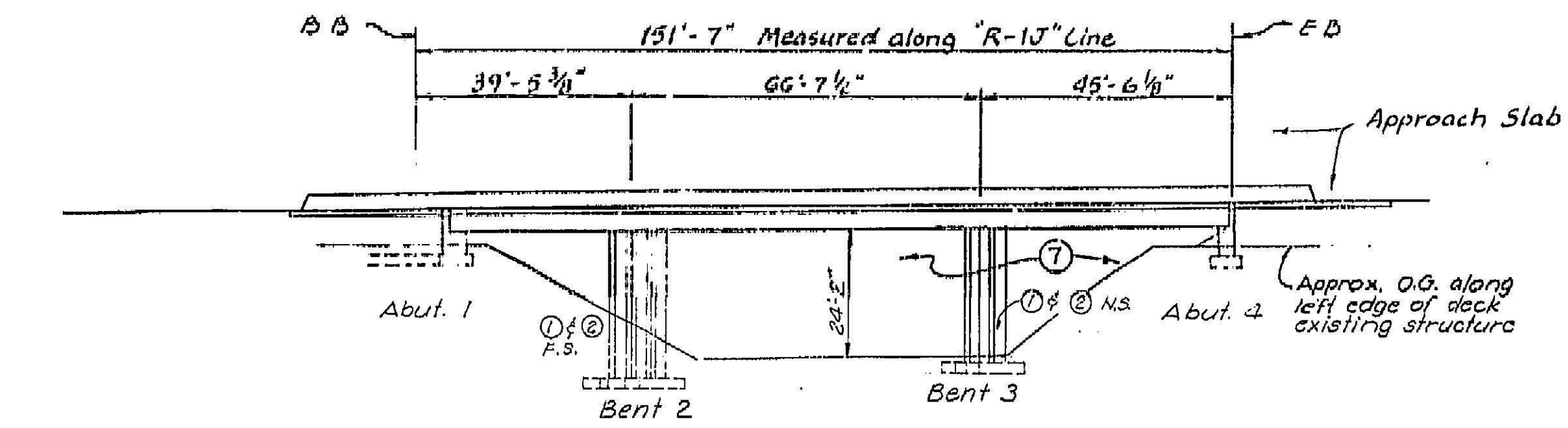
LEGEND OF EARTH MATERIALS (continued)

CONSISTENCY CLASSIFICATION FOR SOILS (continued)

UNIFIED SOIL CLASSIFICATION SYSTEM (continued)

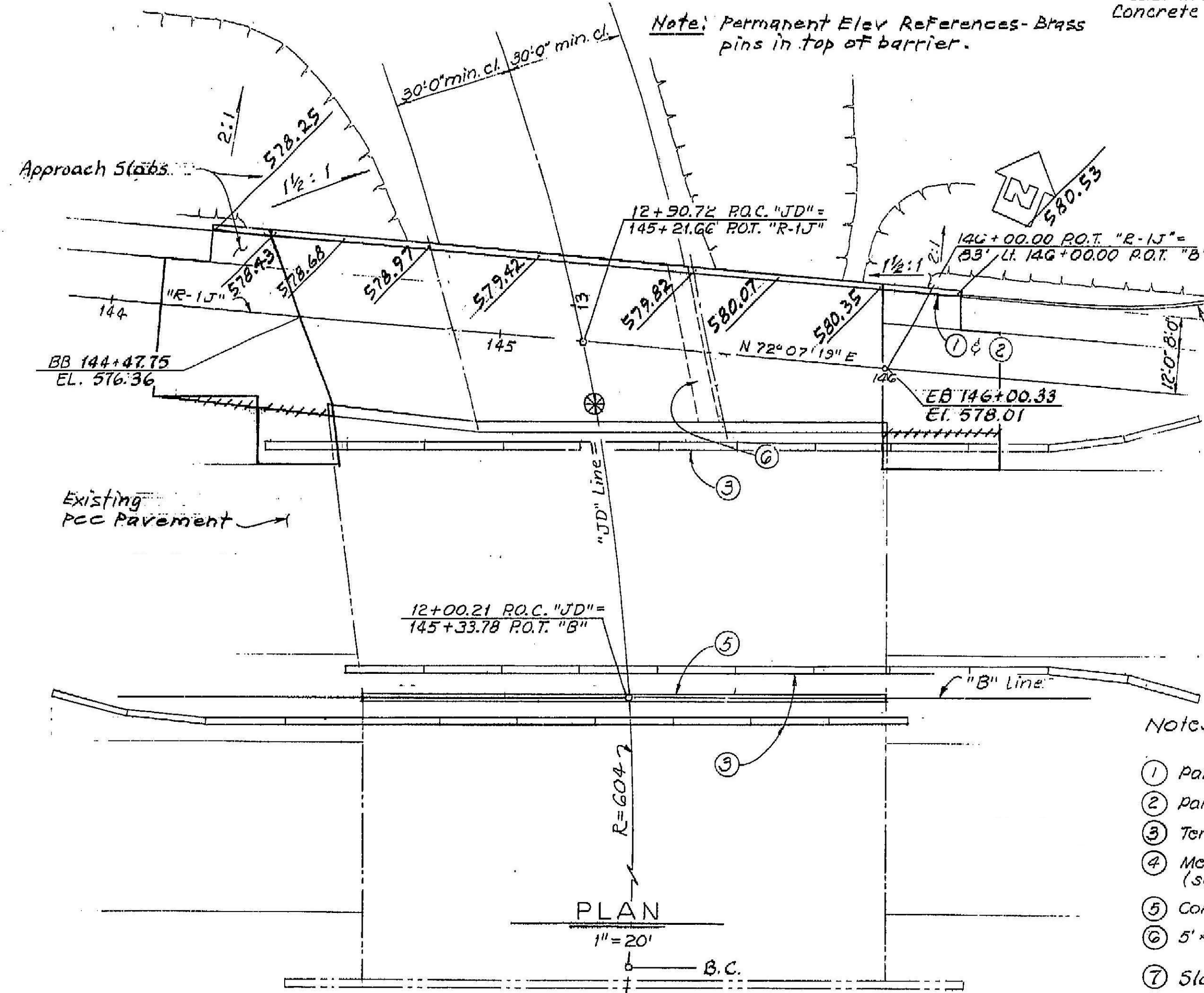


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ELEVATION

1" = 20'-0"

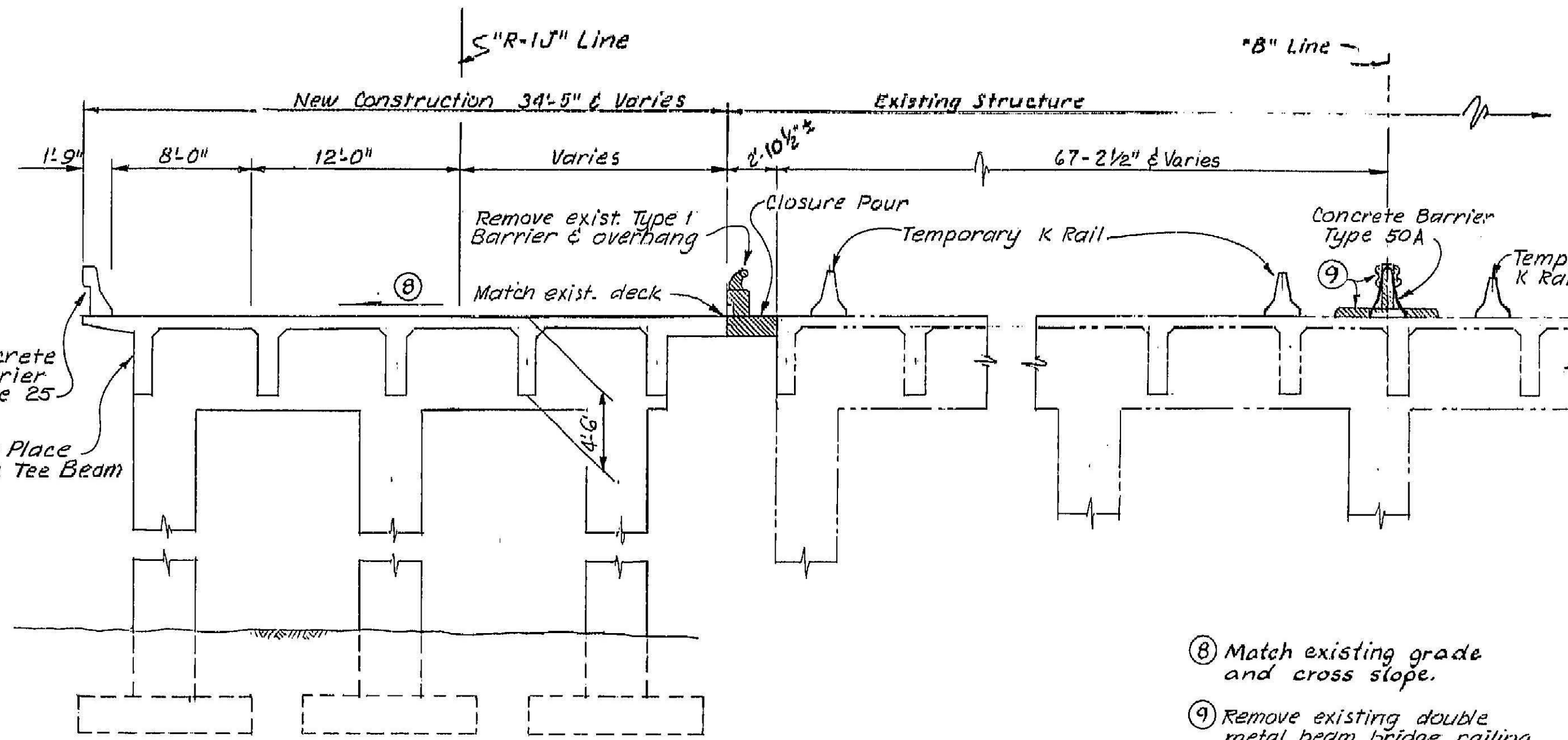


PLAN

1" = 20'

Notes:

- ① Paint Bridge No.
 - ② Paint
 - ③ Temporary Railing Type K
 - ④ Metal Beam Guard Railing (see 'Road Plans')
 - ⑤ Concrete Barrier Type 50A
 - ⑥ 5' x 8' openings
 - ⑦ Slope Paving (See Road Plans)
 - ⑧ Point of minimum vertical clearance
- For 'General Notes' see 'Typical Section' sheet.



TYPICAL SECTION

3/16" = 1'-0"

- ⑧ Match existing grade and cross slope.
- ⑨ Remove existing double metal beam bridge railing 1/2" 3" Type C-3 curb with a 2" AC cover.

APPROXIMATE QUANTITIES	
TEMPORARY RAILING (TYPE K)	620 LF
BRIDGE REMOVAL (PORTION)	LUMP SUM
DRILL AND GROUT DOWEL	5 LF
REFINISH BRIDGE DECK	830 SQFT
NEOPRENE STRIP	71 LF
JOINT SEAL (TYPE B-MR 1")	81 LF
CONCRETE BARRIER (TYPE 25)	190 LF
CONCRETE BARRIER (TYPE 50A)	138 LF
FINAL PAY QUANTITIES	
STRUCTURE EXCAVATION (BRIDGE)	380 CY
STRUCTURE BACKFILL (BRIDGE)	210 CY
PERVIOUS BACKFILL MATERIAL	9 CY
STRUCTURAL CONCRETE, BRIDGE FOOTING	92 CY
STRUCTURAL CONCRETE, BRIDGE	485 CY
STRUCTURAL CONCRETE, APPROACH SLAB	94 CY
BAR REINFORCING STEEL (BRIDGE)	127,000 LB

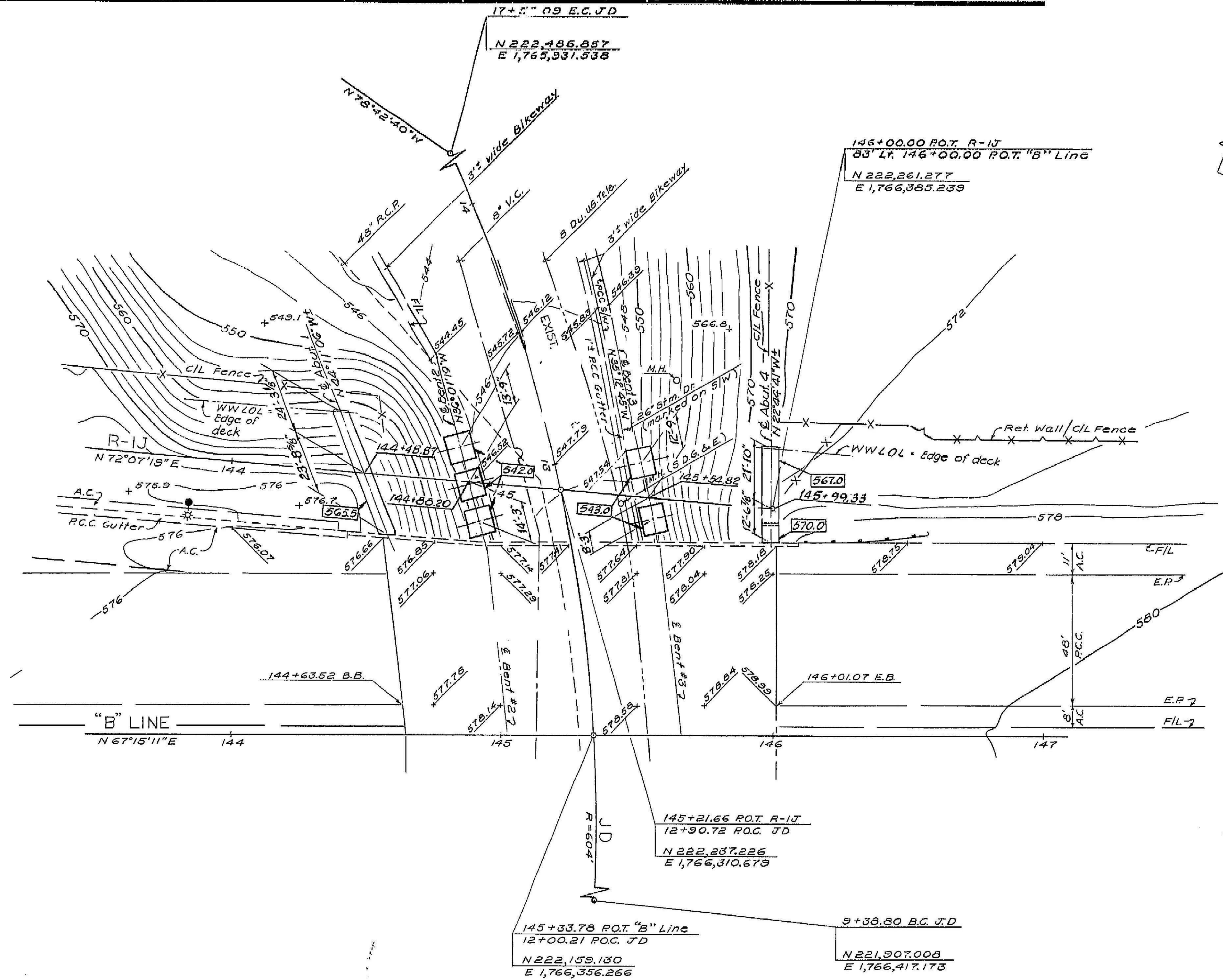
INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN
2	FOUNDATION PLAN
3	ABUTMENT 1 DETAILS
4	ABUTMENT 4 DETAILS
5	BENT 2 DETAILS
6	BENT 3 DETAILS
7	TYPICAL SECTION
8	GIRDER LAYOUT
9	GIRDER REINFORCEMENT
10	LOG OF TEST BORINGS

STANDARD PLANS DATED JULY, 1984
 A-35-B APPROACH SLAB Details
 A62-2 EXCAVATION AND BACKFILL - LIMITS OF PAYMENT (BRIDGE)
 B0-1 BRIDGE DETAILS.
 B0-3 BRIDGE DETAILS.
 B0-5 BRIDGE DETAILS.
 B0-13 BRIDGE DETAILS.
 B6-1 T-BEAM DETAILS.
 B6-21 JOINT SEALS
 B11-30 TEMPORARY RAILINGS, (TYPE K)
 B11-53 CONCRETE BARRIER TYPE 25.

NOTE:
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

CURVE DATA
 R = 604'
 Δ = 77°31'43"
 T = 485.009'
 L = 817.290'
 O N 221,894.543
 E 1,765,813.301

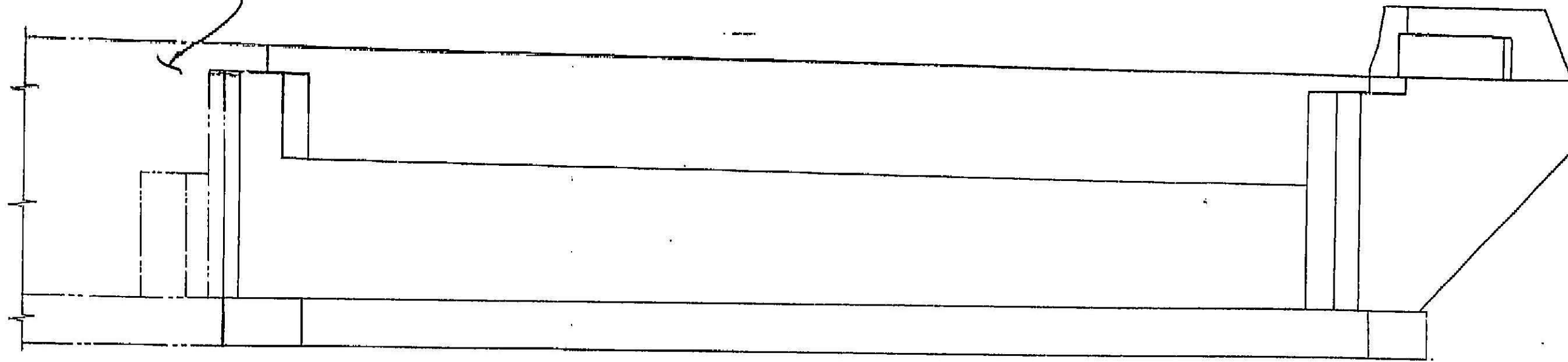


NOTES
 Underground utilities as shown are approx.
 + Denotes spot elev.
 ●* Denotes electrical.
 570.0 Indicates bottom of footing elevations.

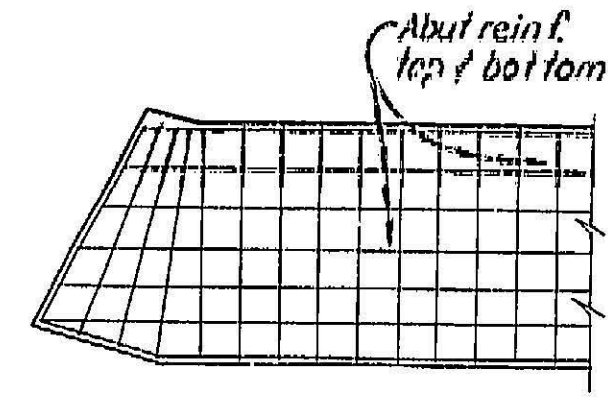
NOTE:
 THE CONTRACTOR SHALL VERIFY ALL
 CONTROLLING FIELD DIMENSIONS
 BEFORE ORDERING OR FABRICATING
 ANY MATERIAL.

Note:
1. Match abutment E bearing
at edge of widening.

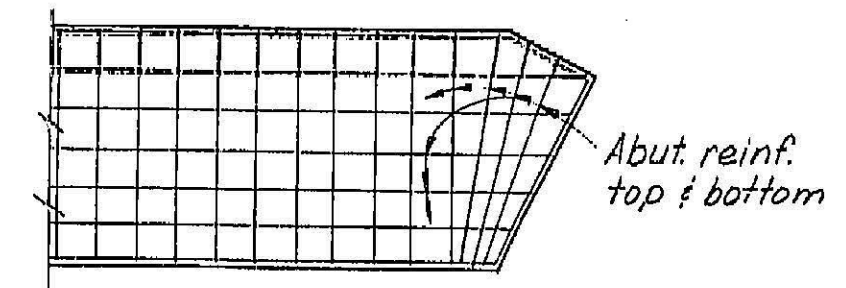
Existing Abutment



ELEVATION
1/2" = 1'-0"

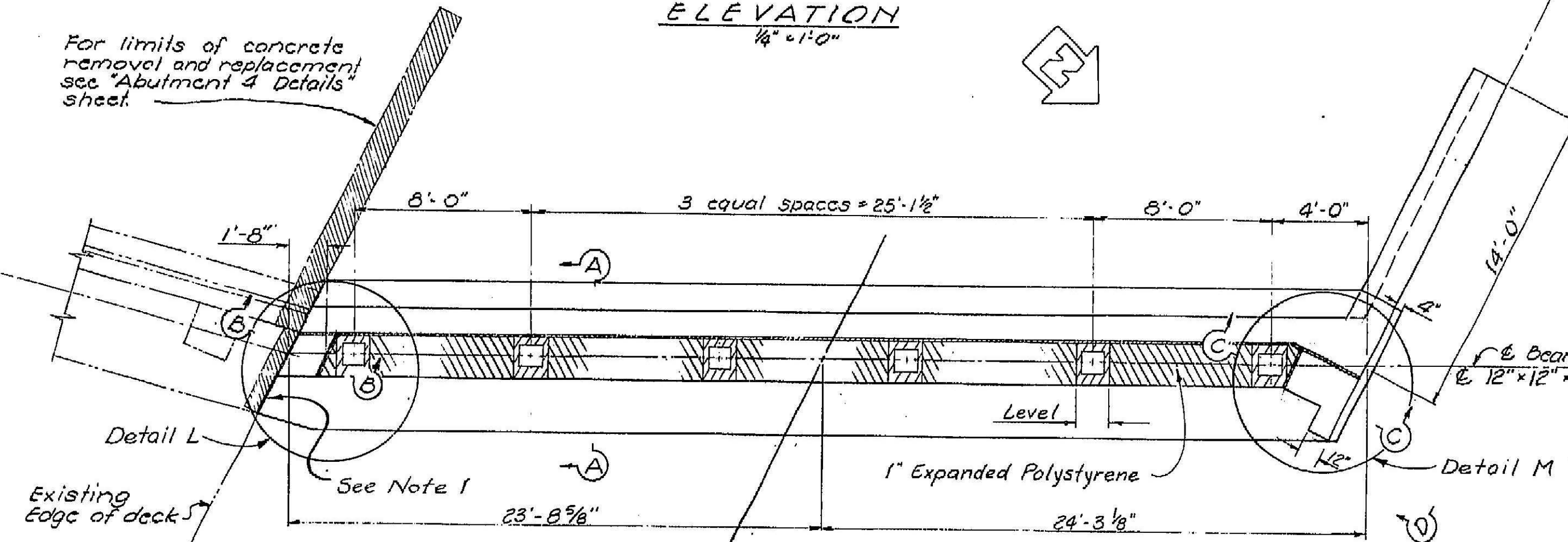


DETAIL L
No Scale

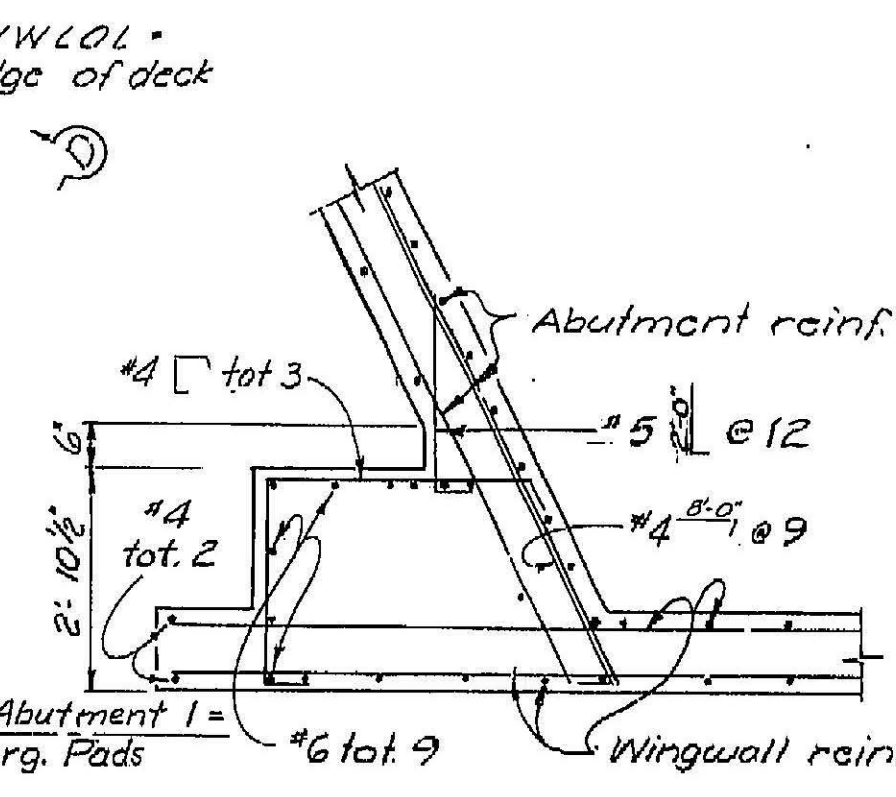


DETAIL M
No Scale

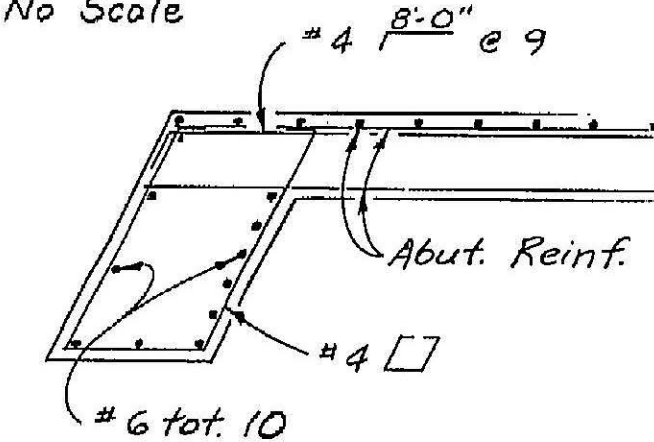
For limits of concrete
removal and replacement
see "Abutment & Details"
sheet.



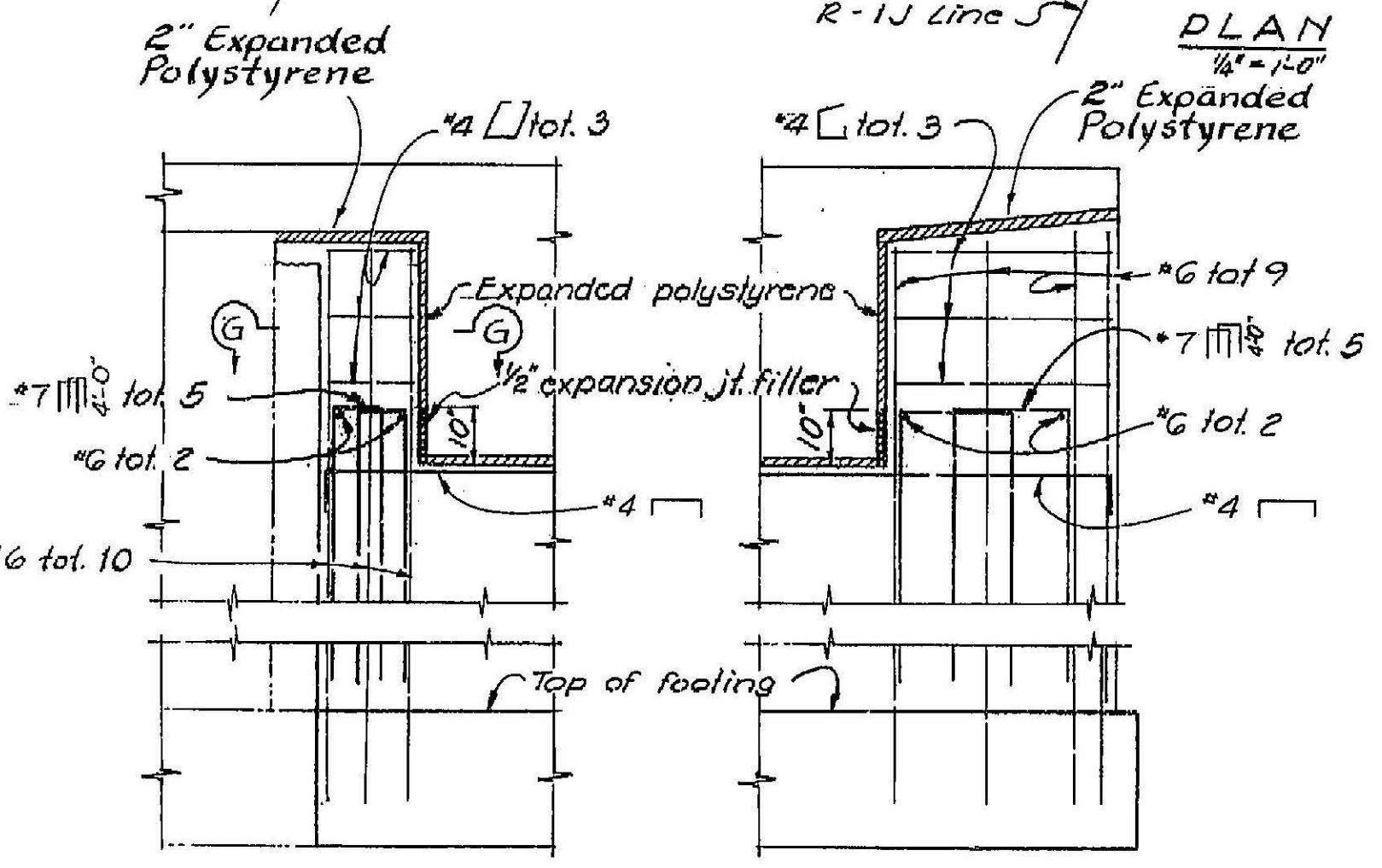
PLAN
1/2" = 1'-0"



SECTION F-F
1/2" = 1'-0"

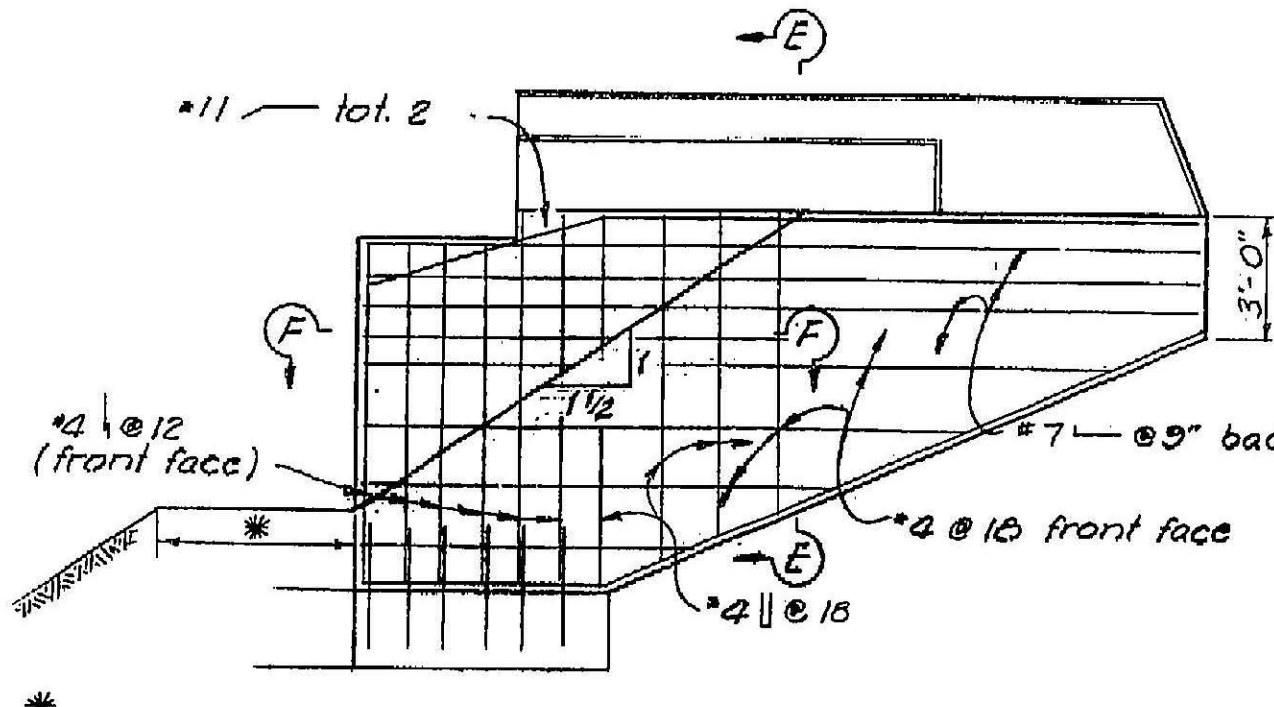


SECTION G-G
No Scale

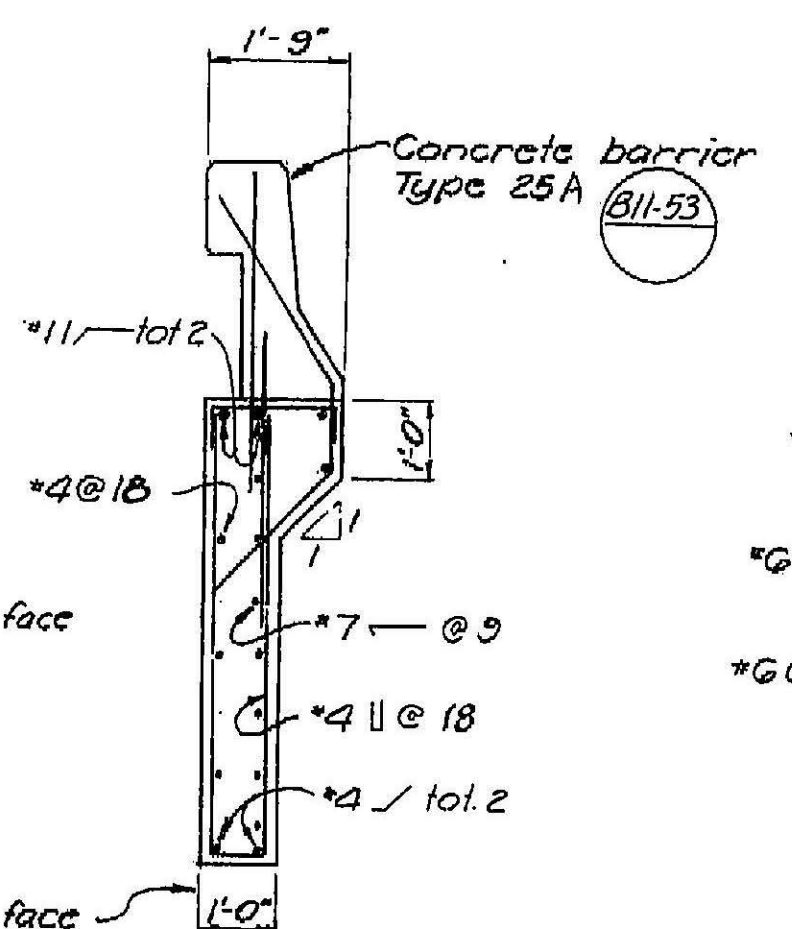


SECTION B-B
1/2" = 1'-0"

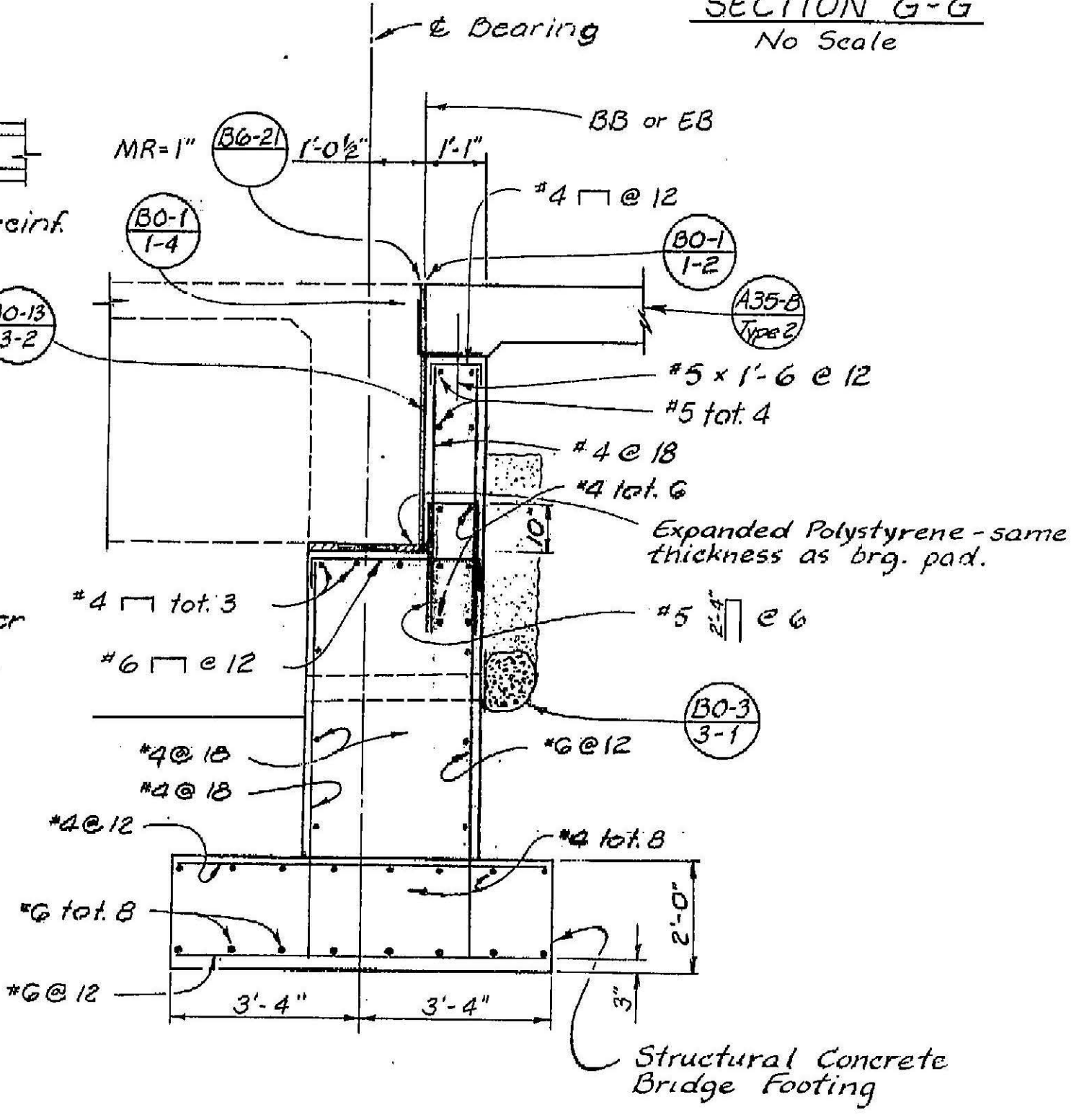
SECTION C-C
1/2" = 1'-0"



ELEVATION D-D
1/2" = 1'-0"

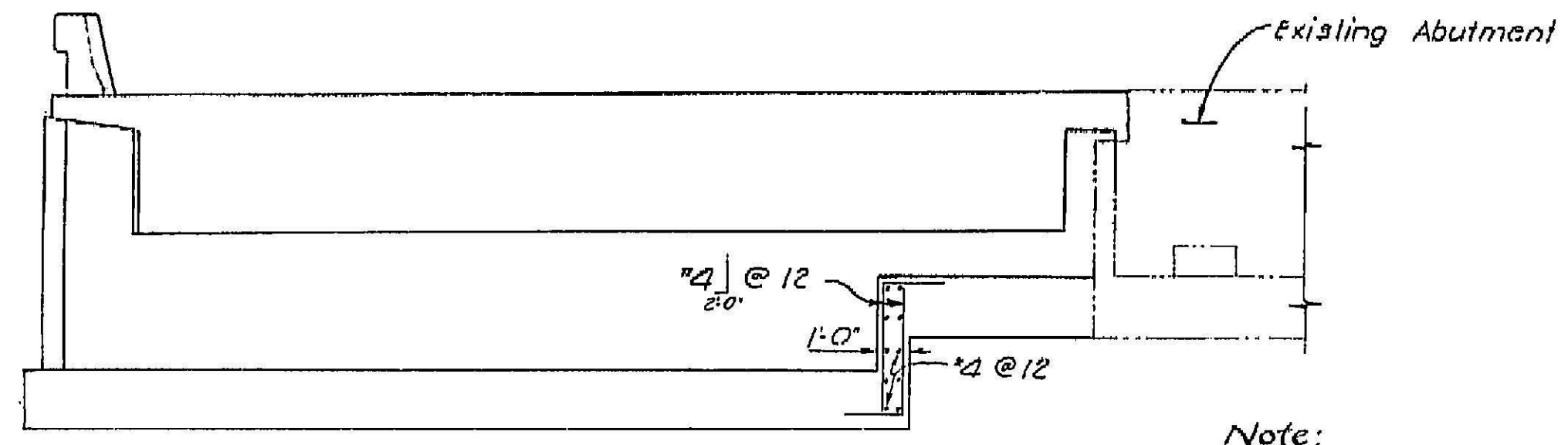


SECTION E-E
1/2" = 1'-0"



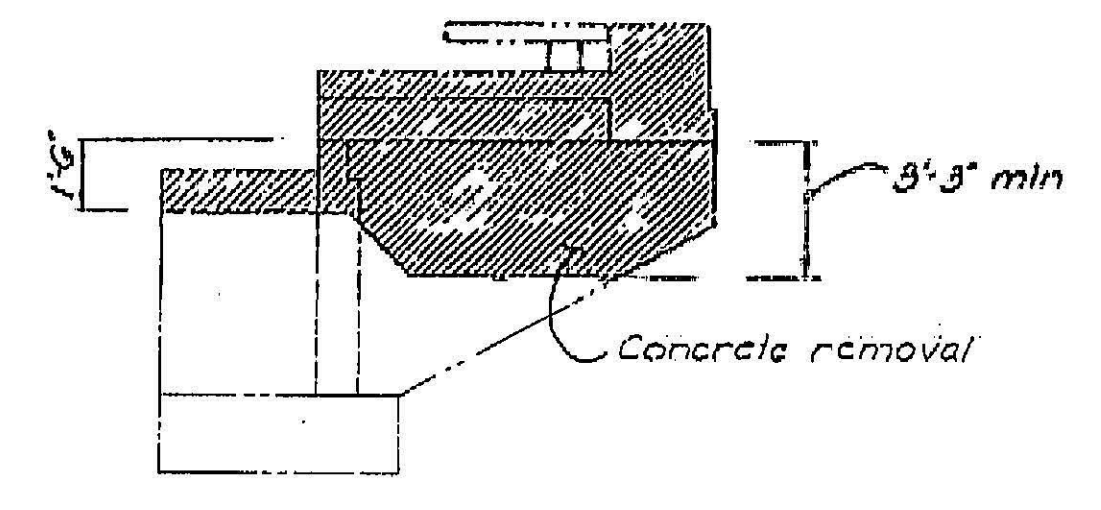
SECTION A-A
1/2" = 1'-0"

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

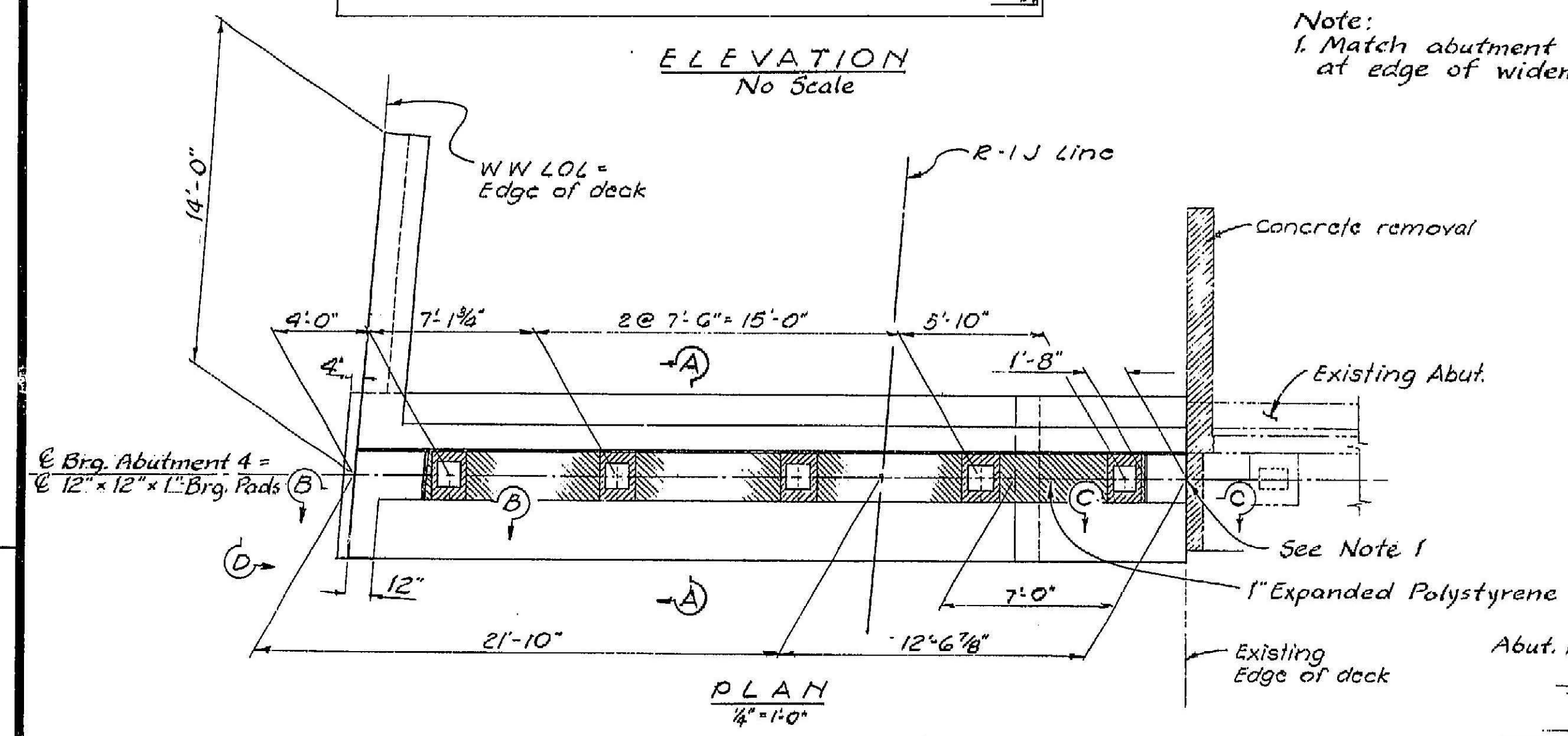


ELEVATION
No Scale

Note:
1. Match abutment & bearing
at edge of widening.

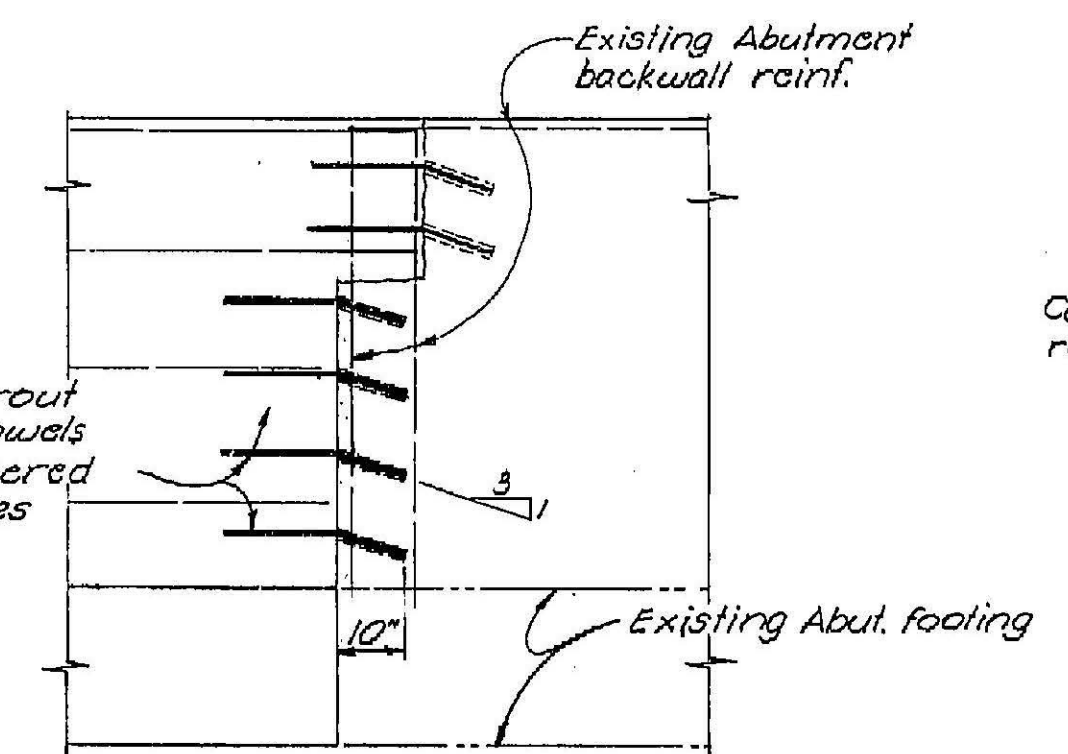


LIMITS OF CONCRETE REMOVAL
1/2" = 1'-0"



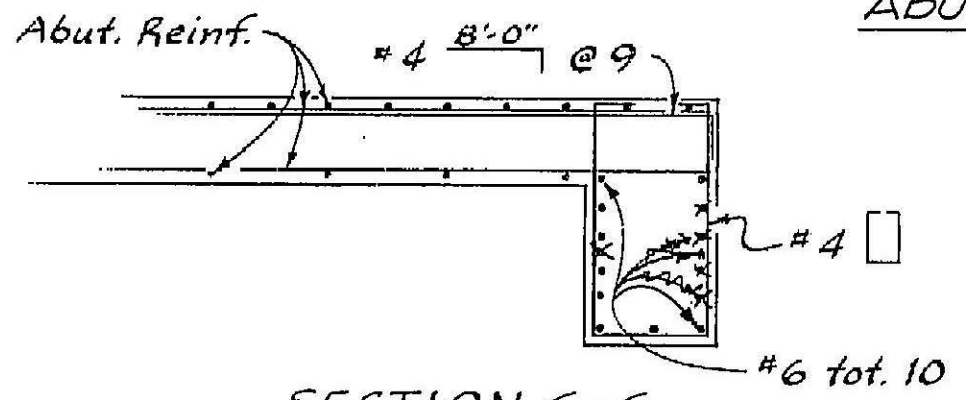
PLAN
1/4" = 1'-0"

Note:
For Section A-A, see
"Abutment 1 Details"
sheet.



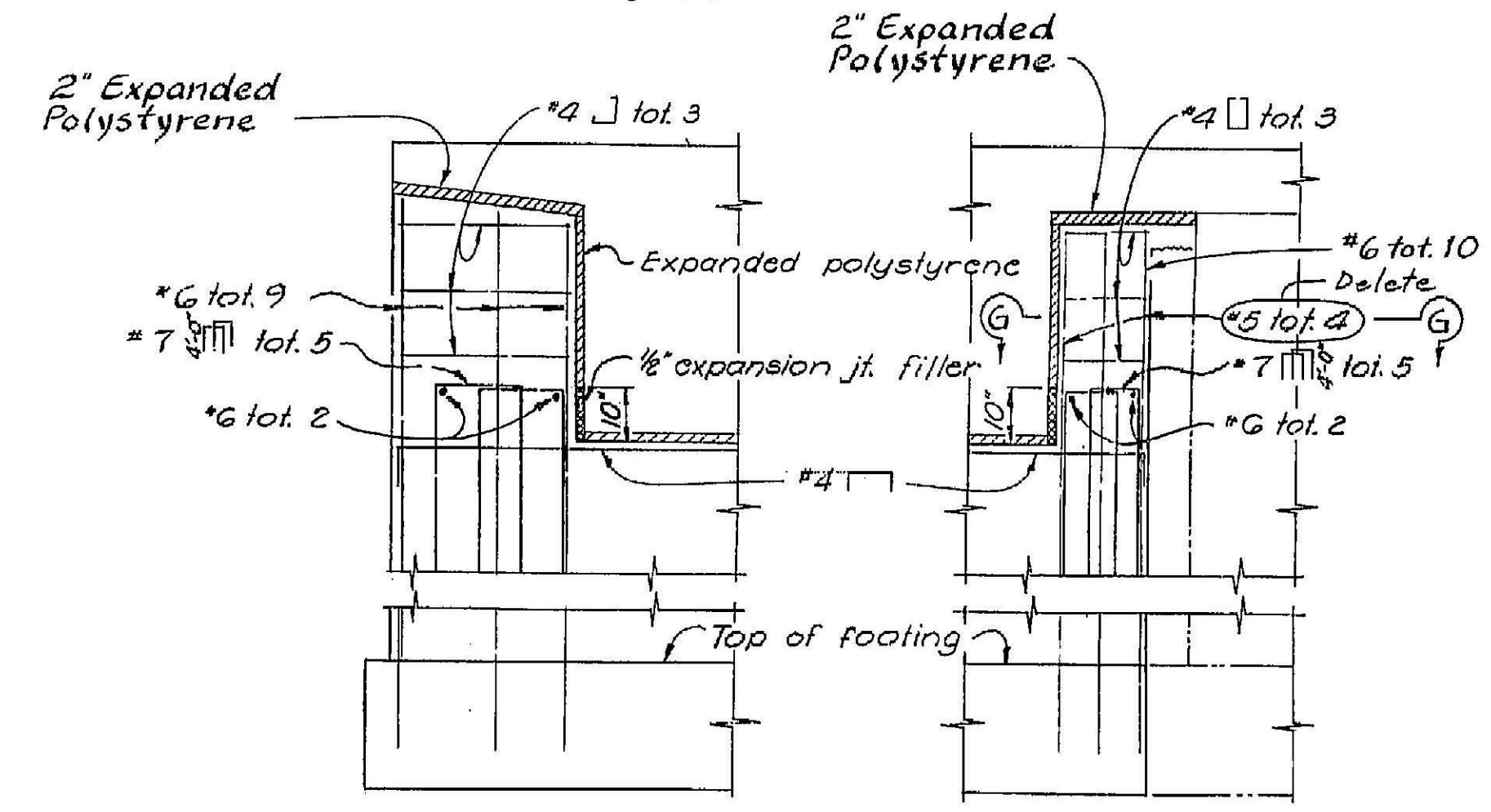
ABUT. BACKWALL ELEV.

SECTION @ CURTAIN WALL



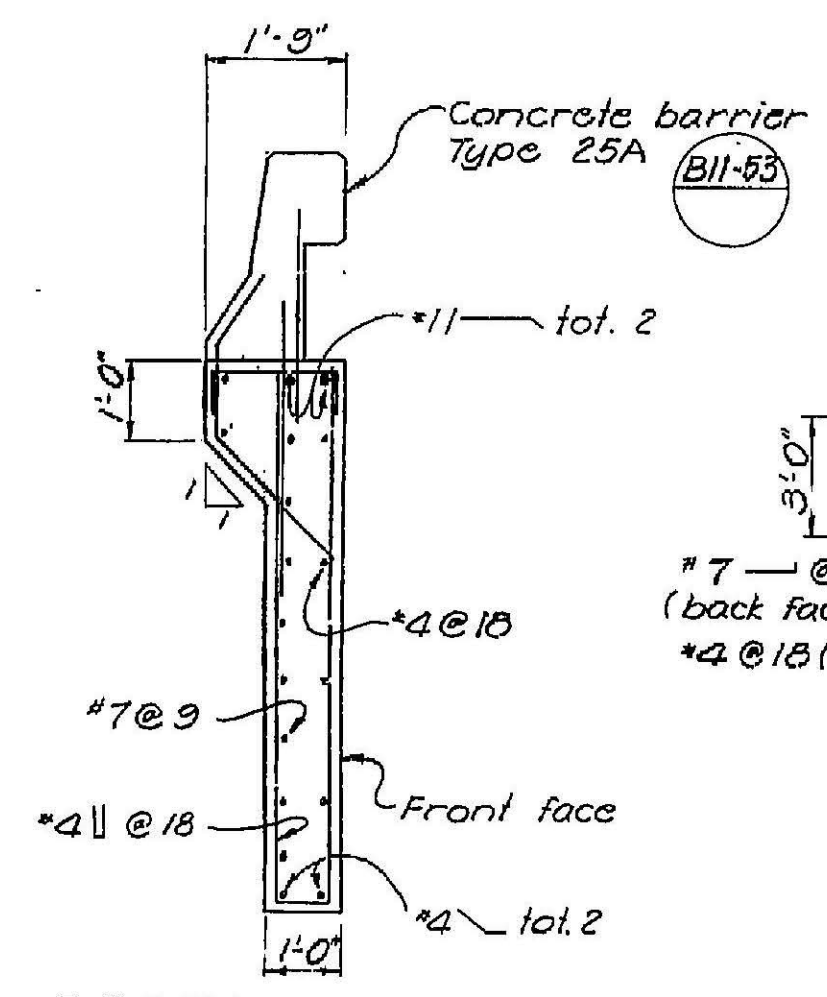
SECTION G-G
1/2" = 1'-0"

CONCRETE REPLACEMENT DETAILS
1/2" = 1'-0"

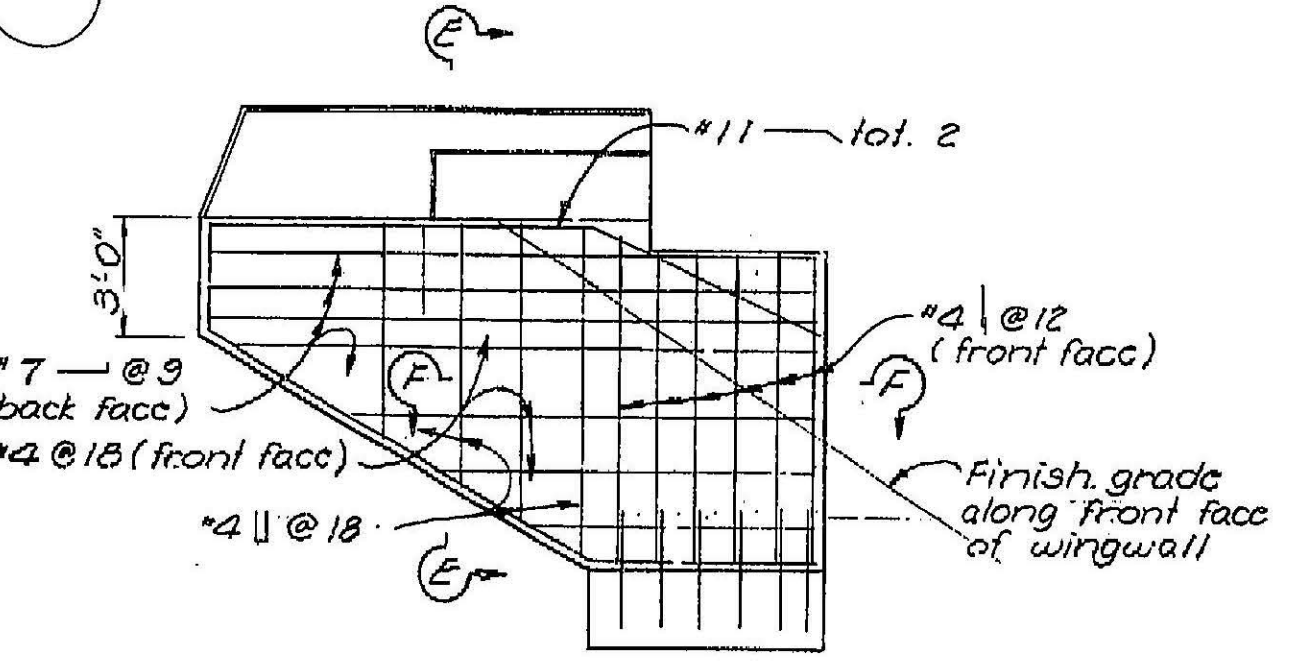


SECTION B-B
1/2" = 1'-0"

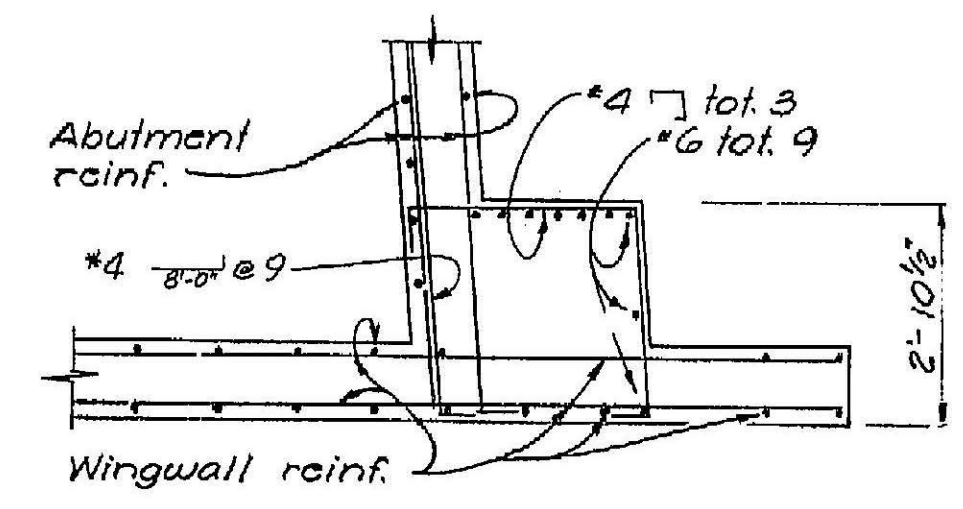
SECTION C-C
1/2" = 1'-0"



SECTION E-E
No Scale

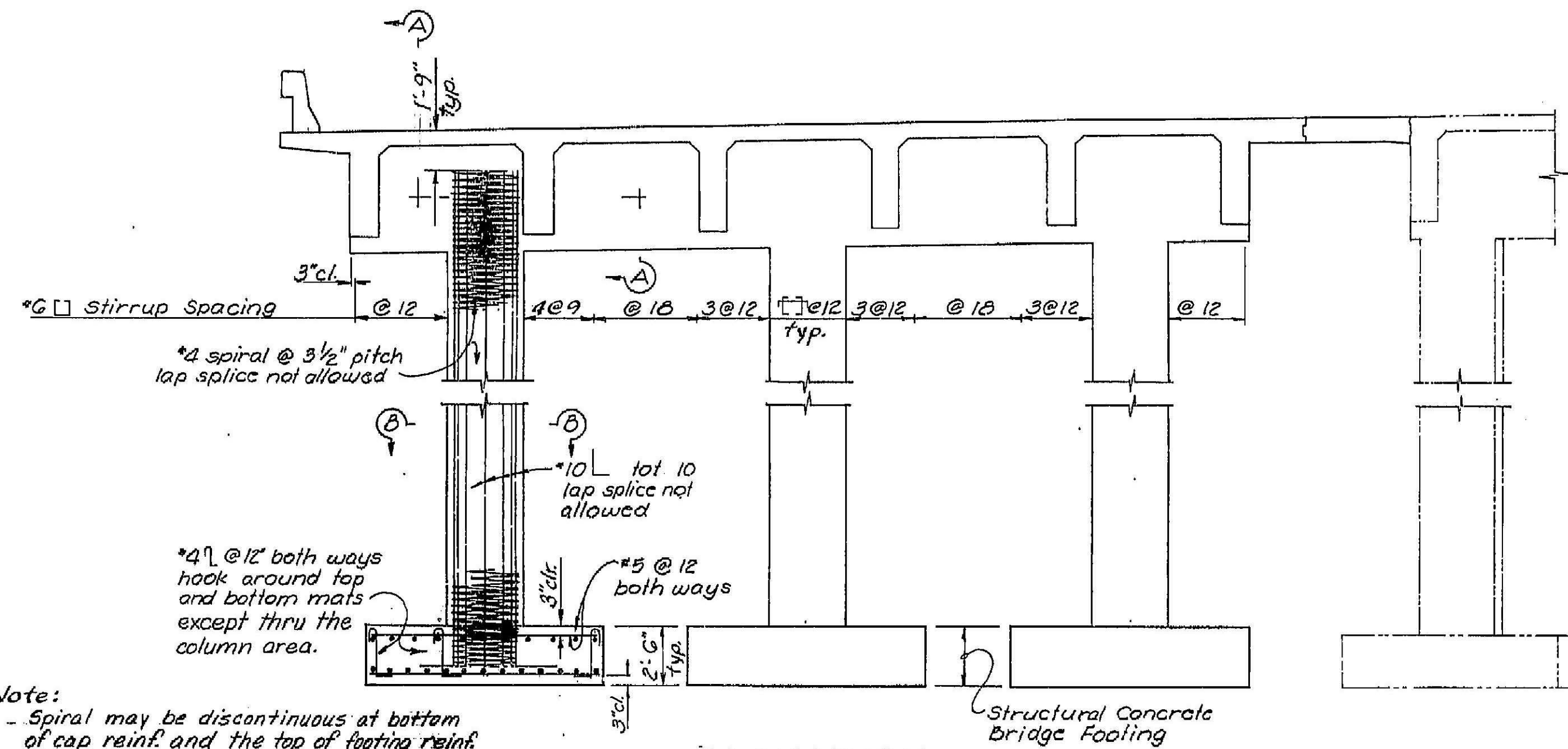


ELEVATION D-D
No Scale

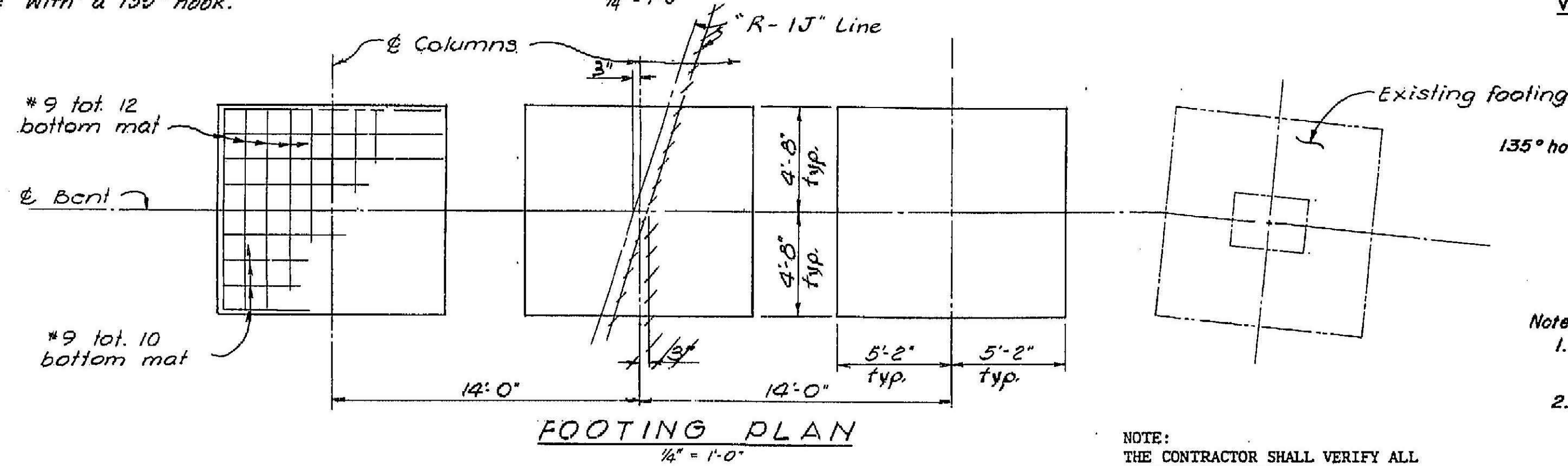


SECTION F-F
1/2" = 1'-0"

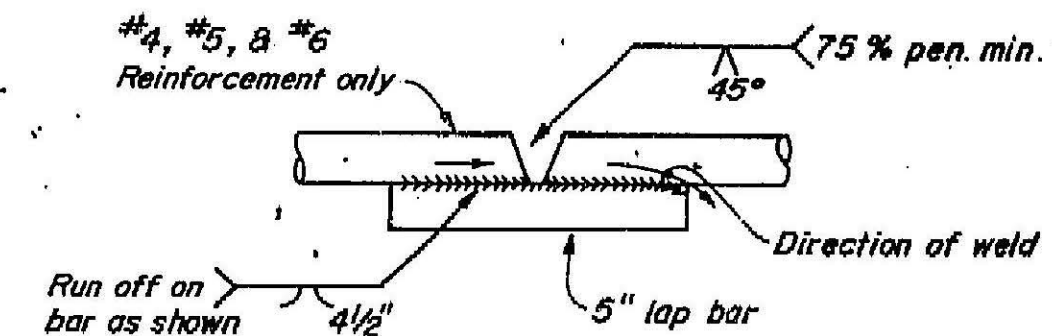
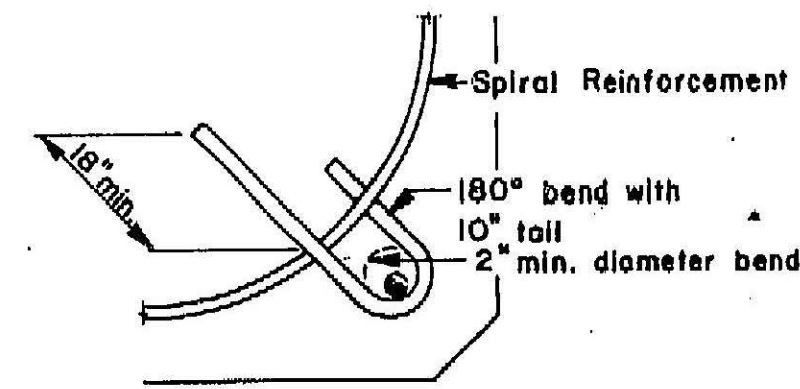
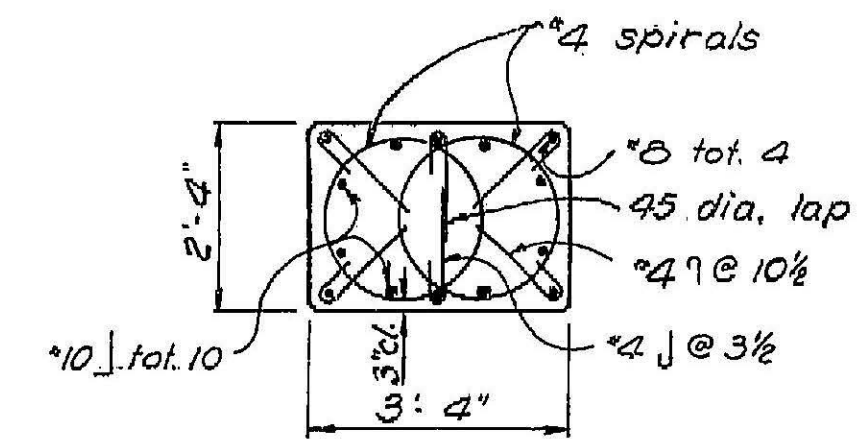
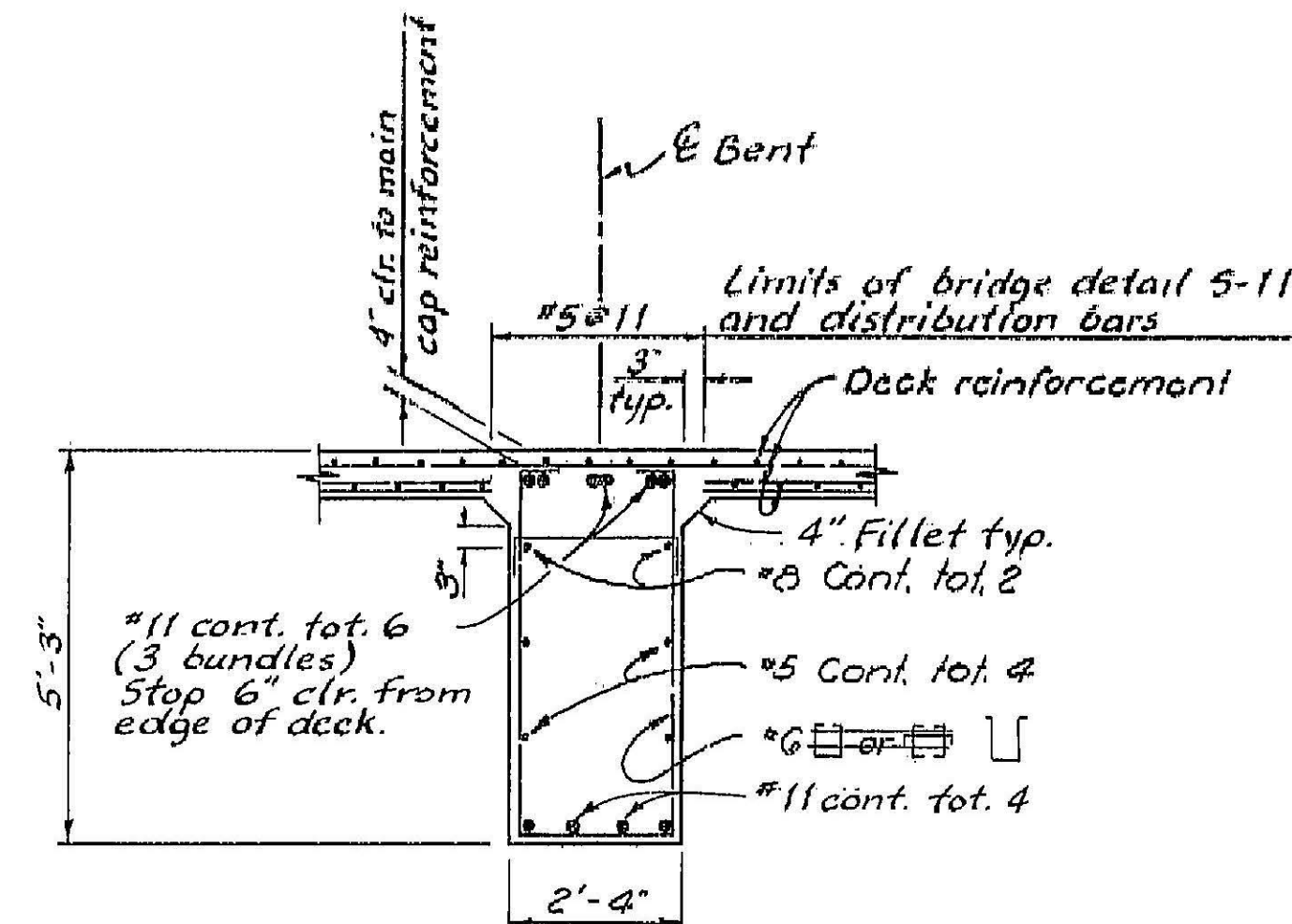
NOTE:
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CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.



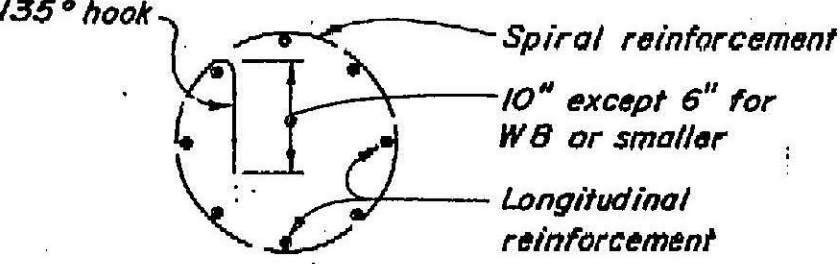
Note:
- Spiral may be discontinuous at bottom of cap reinf. and the top of footing reinf. If spiral is discontinuous, ends must terminate with a 135° hook.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

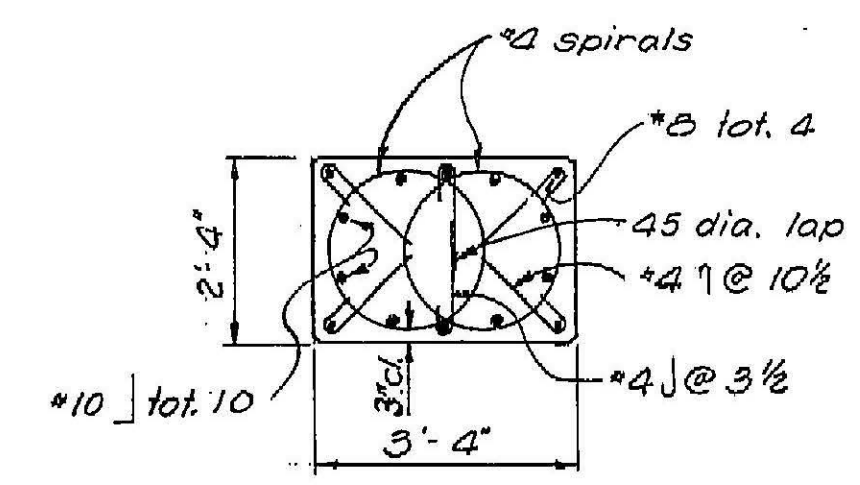
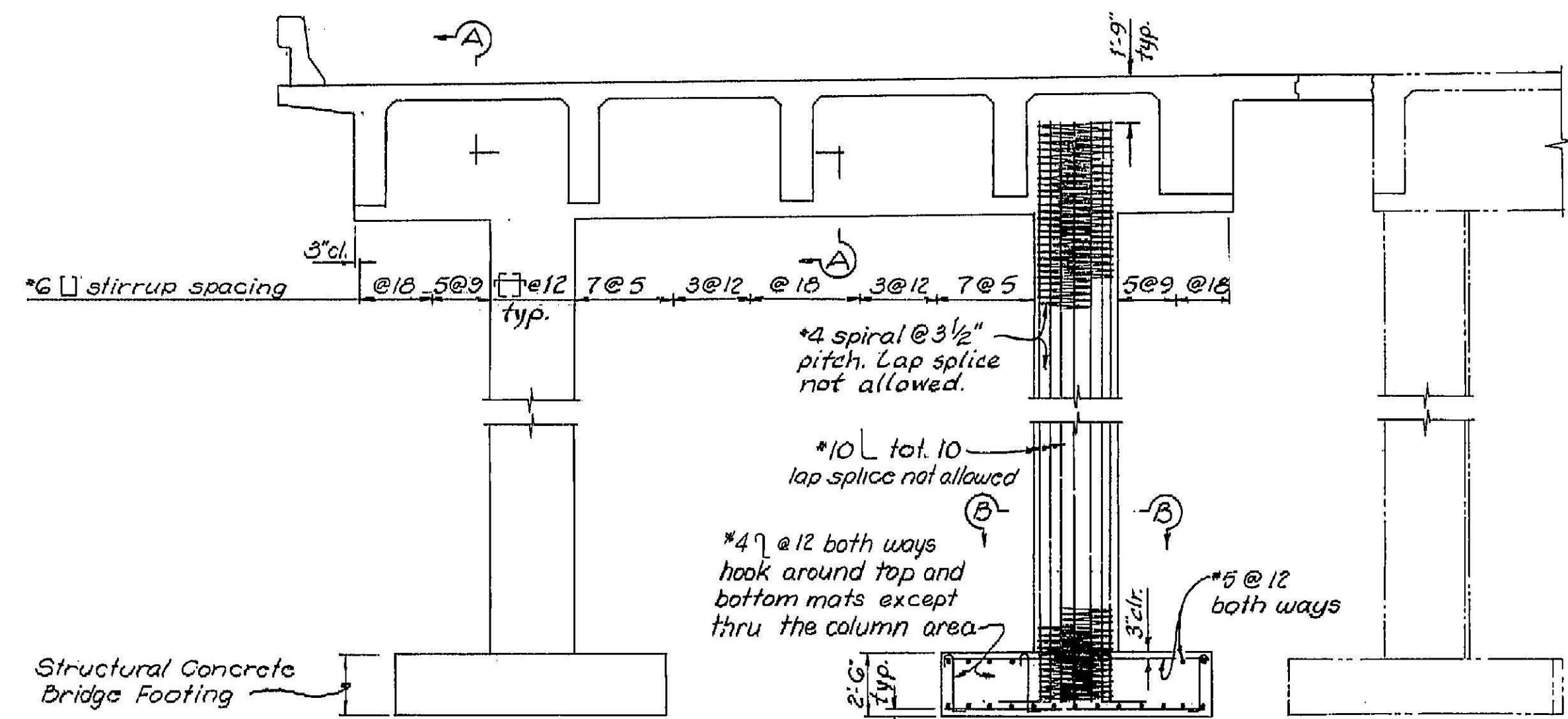


- Notes:
1. Butt weld to be made first.
 2. Butt weld to be in flat or horizontal position.
 3. Lap bar, centered on splice.
 4. Flare weld to be made in direction shown.
 5. Lap bar equal in size to spiral bar.



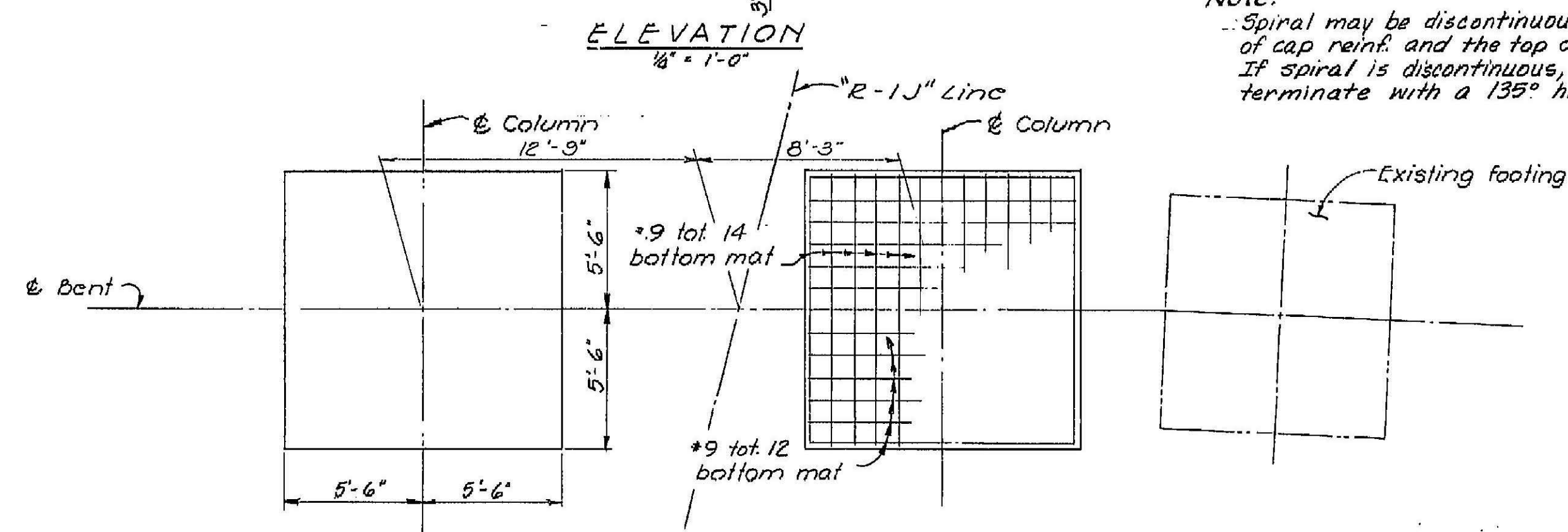
- Note:
1. For lapped splices, spiral reinforcement shall be lapped at least 80 diameters.
 2. Spiral reinforcement at lapped splices and at ends shall be terminated by a 135 degree hook around a longitudinal bar.

COLUMN SPIRAL DETAIL



SECTION B-B
1/2" = 1'-0"

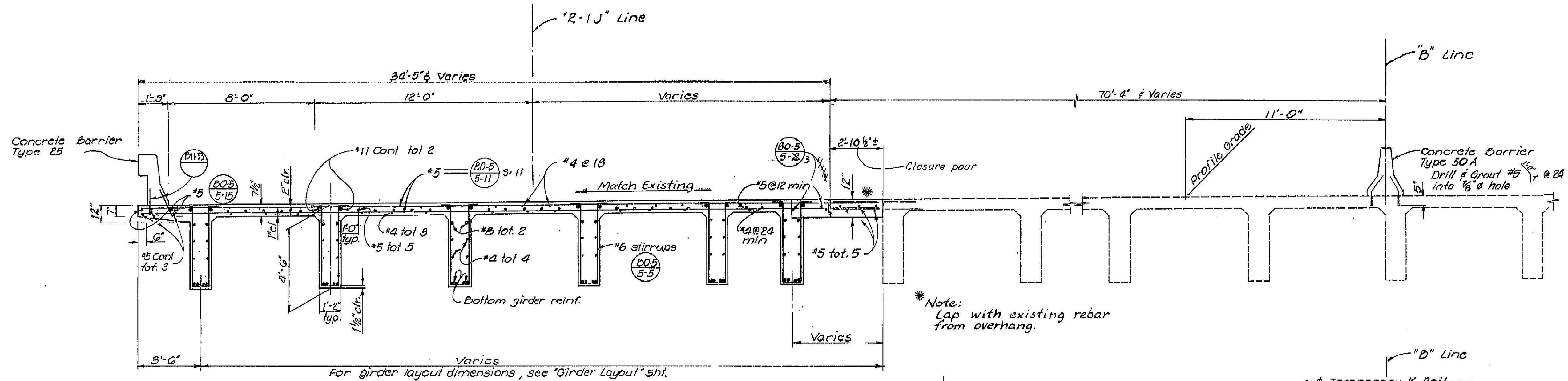
Note:
Spiral may be discontinuous at bottom of cap reinf. and the top of footing reinf. If spiral is discontinuous, ends must terminate with a 135° hook.



NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

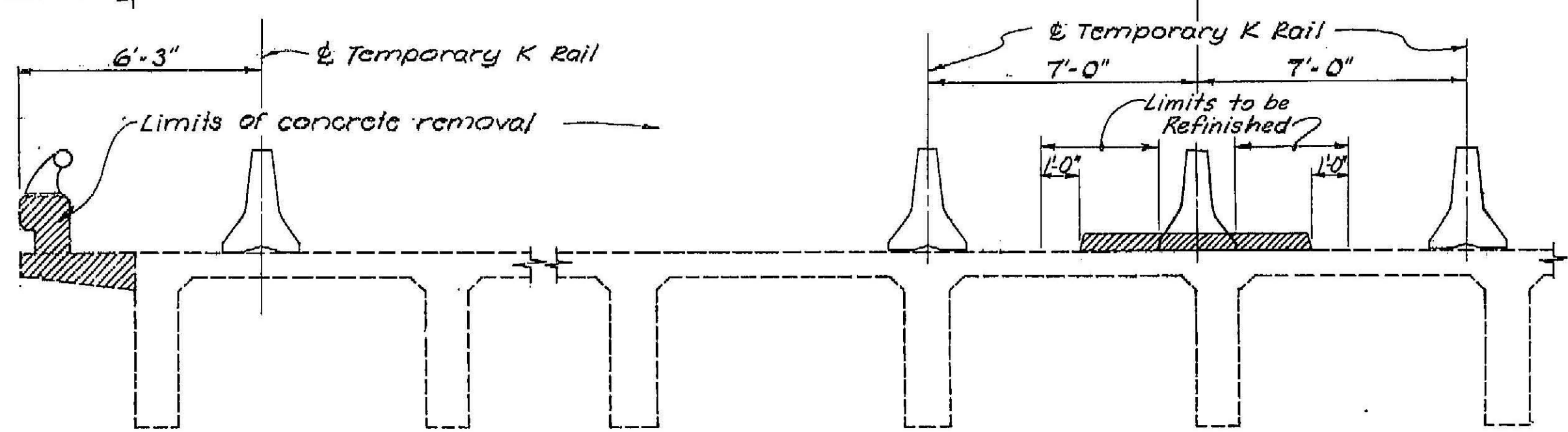
Note:
For Sections A-A see "Bent & Details" sheet.

For column 'Tie Bar', 'Spiral Splice' and 'Column Spiral' details, see 'Bent & Details' sheet.



BRIDGE SECTION

$\frac{3}{8}'' = 1'-0''$ (B6-1)



STAGE 1 CONSTRUCTION

$\frac{3}{8}'' = 1'-0''$

**GENERAL NOTES
LOAD FACTOR DESIGN**

DESIGN: BRIDGE DESIGN SPECIFICATIONS (1977 AASHTO with Interims and

DEAD LOAD: Includes 25 psf for future wearing surface.

LIVE LOADING: HS20-44 and alternative and permit design load.

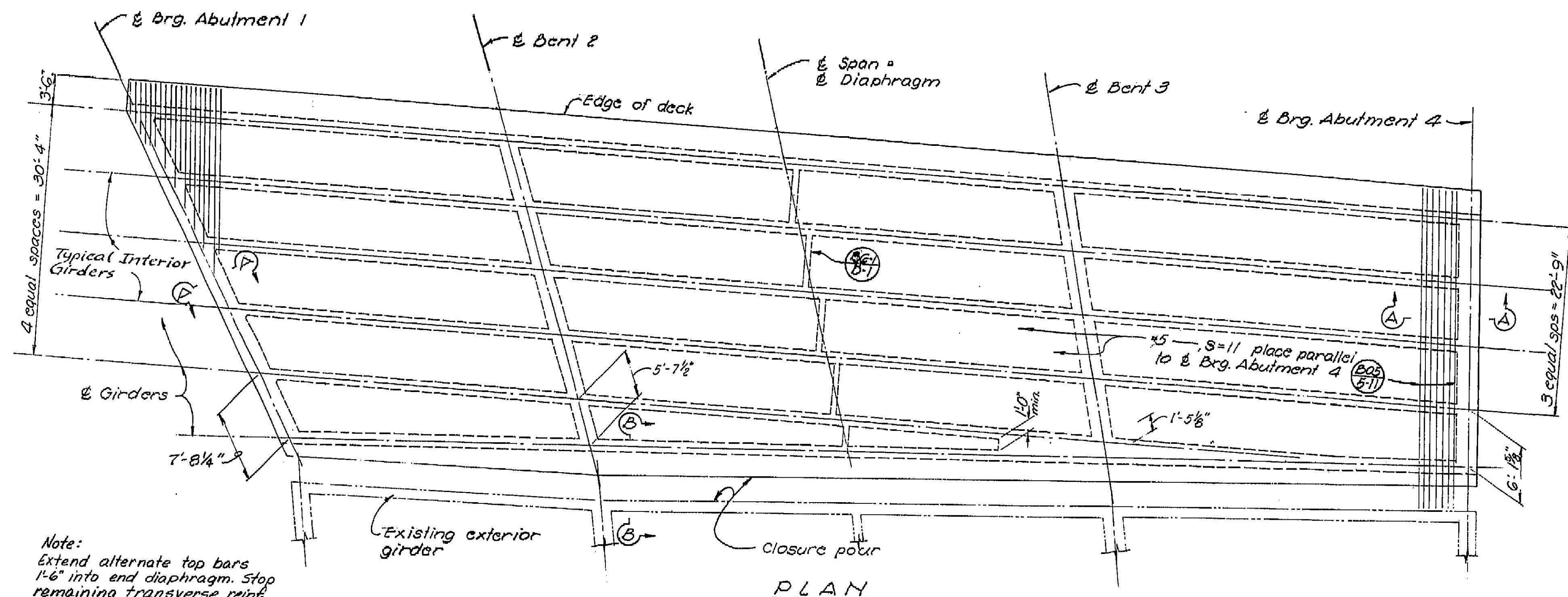
REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f'_c = 3,250$ psi
 $n = 9$
 Transverse deck slabs (working Stress Design)
 $f_y = 20,000$ psi
 $f'_c = 1,200$ psi
 $n = 10$

FALSEWORK RELEASE

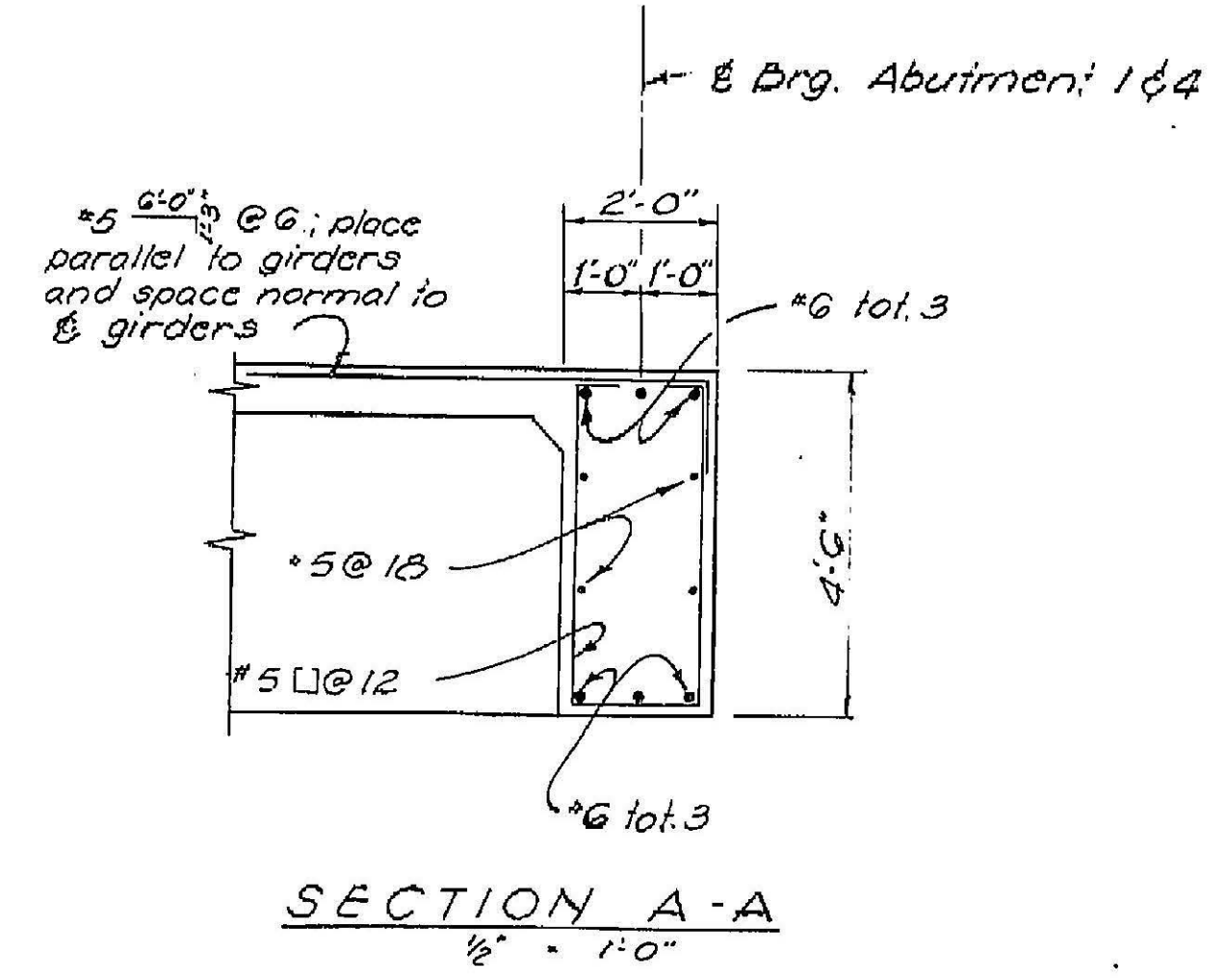
Falsework shall be released as soon as permitted by the specifications. Closure pour shall not be placed sooner than 60 days after the falsework has been released.

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

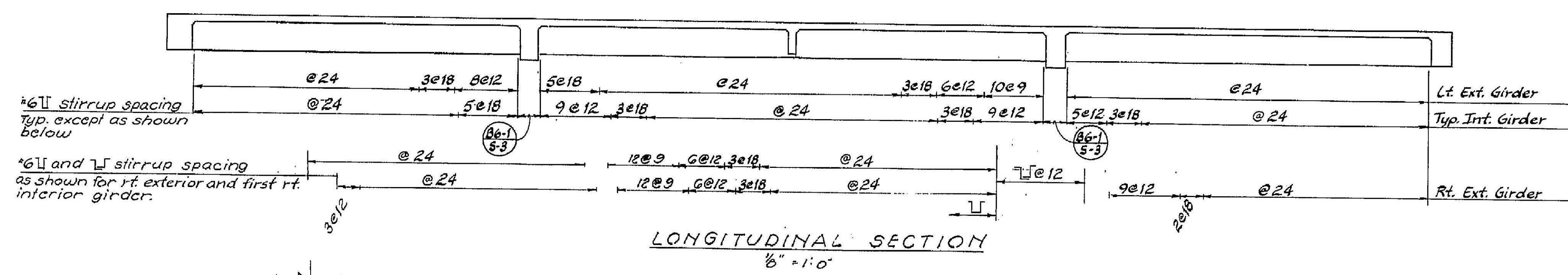
FOOTING PRESSURE (TONS PER SF)	ALLOWABLE	DESIGN
Bent	2 / 3	4.0 / 4.0
Abuts	1 / 4	2.5 / 2.5



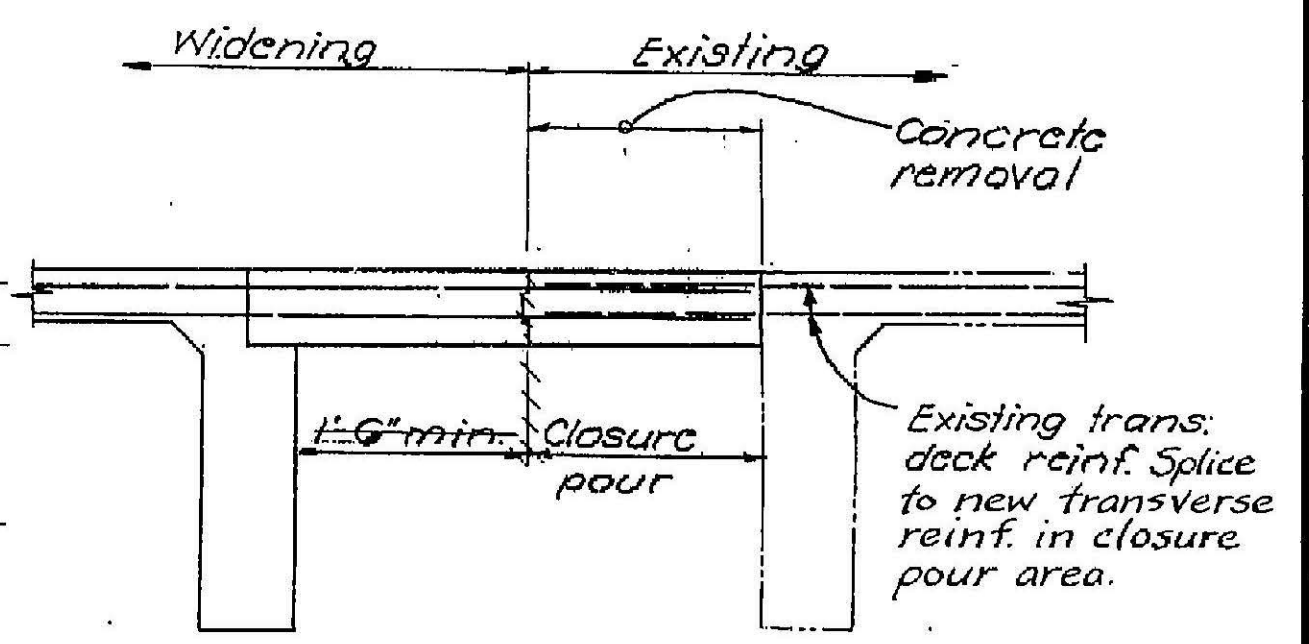
PLAN
1/8" = 1'-0"



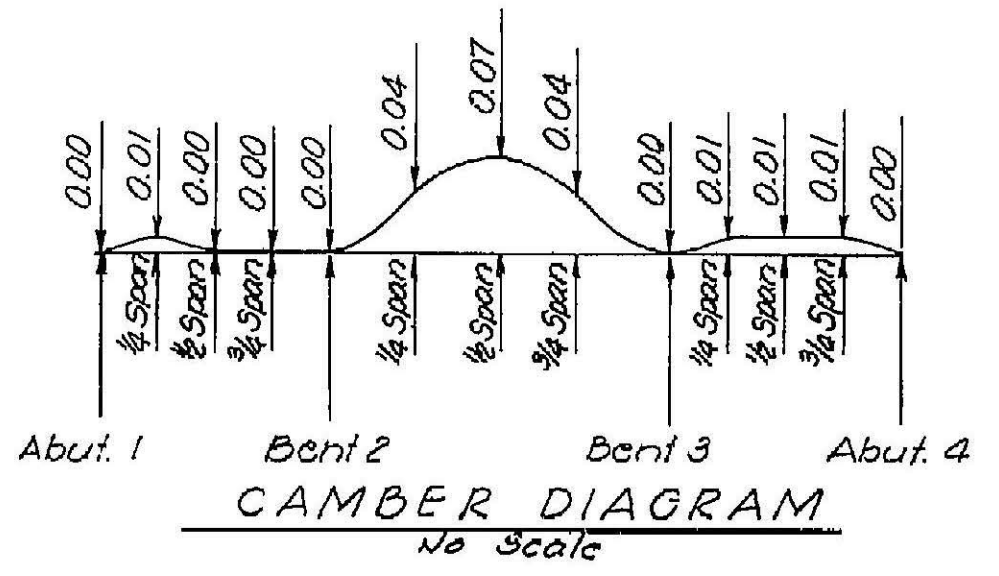
SECTION A-A
1/2" = 1'-0"



LONGITUDINAL SECTION
1/8" = 1'-0"

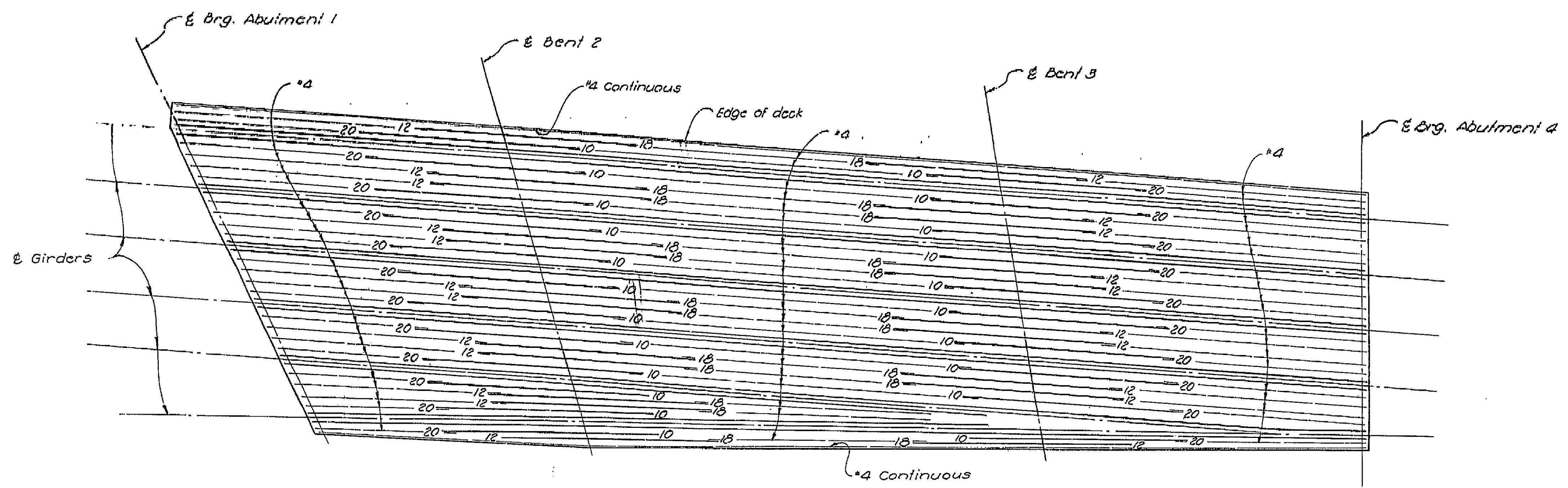


SECTION B-B
1/2" = 1'-0"



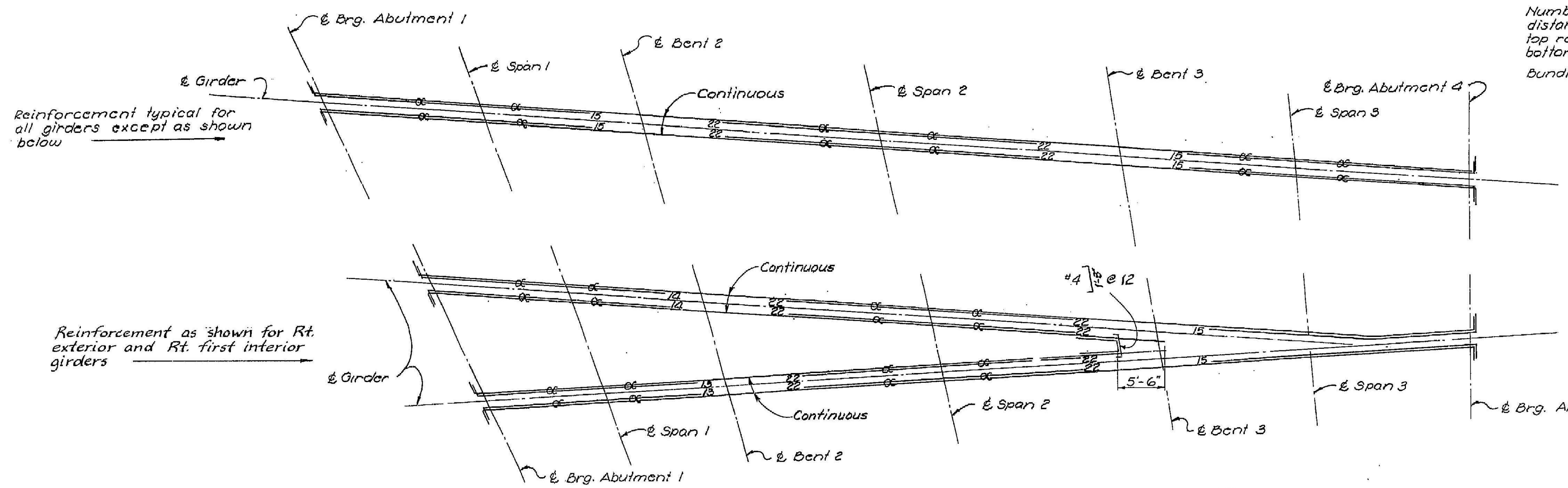
CAMBER DIAGRAM
No Scale

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



TOP REINFORCEMENT
1/8" = 1'-0"

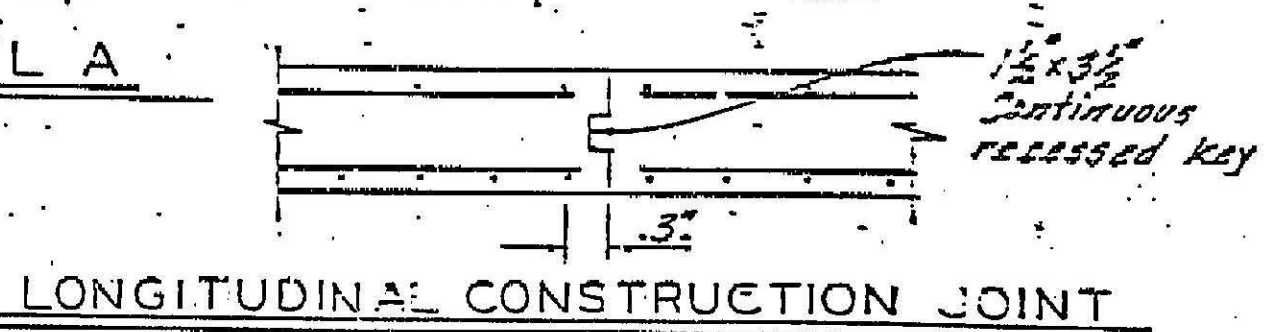
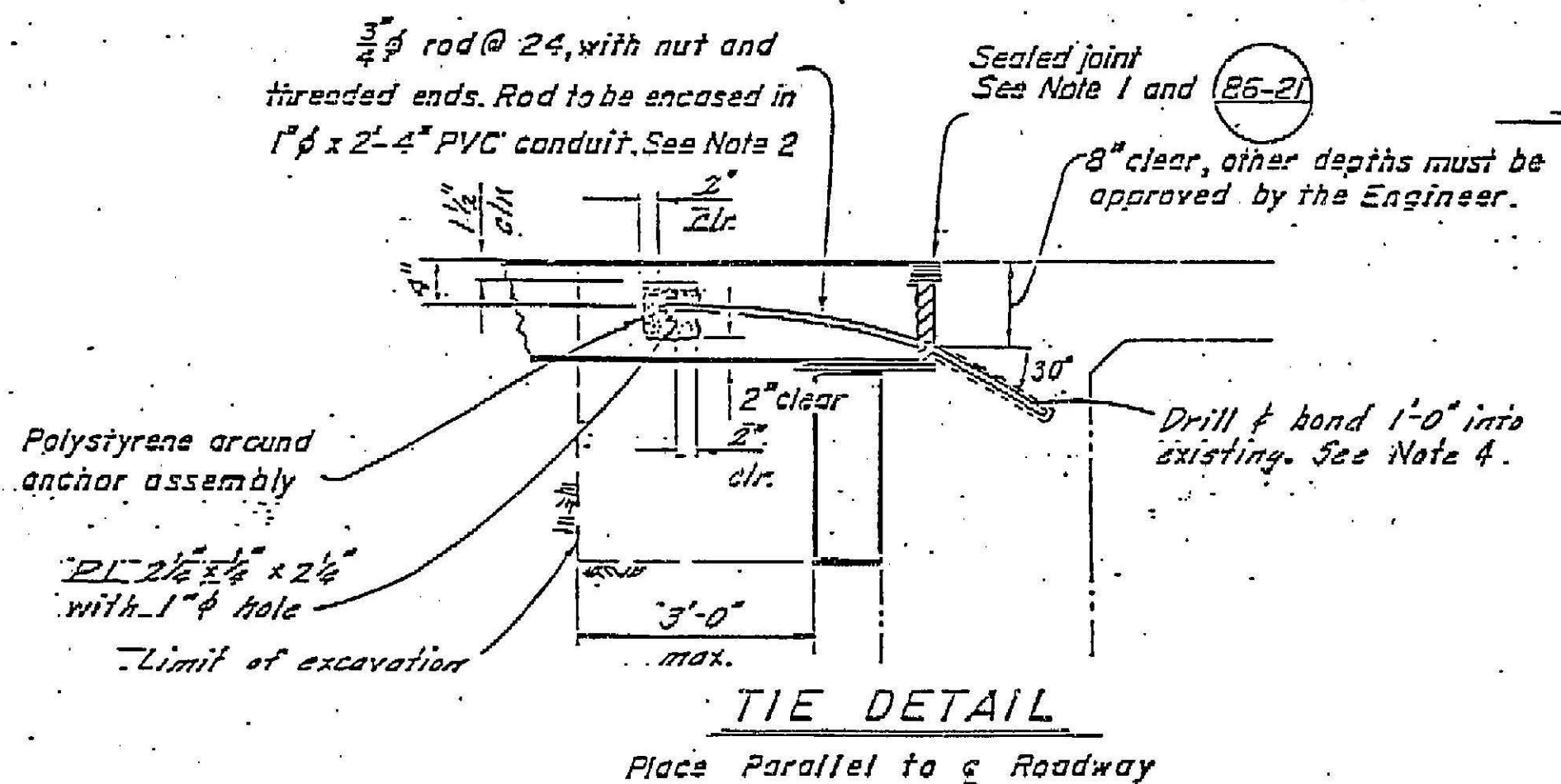
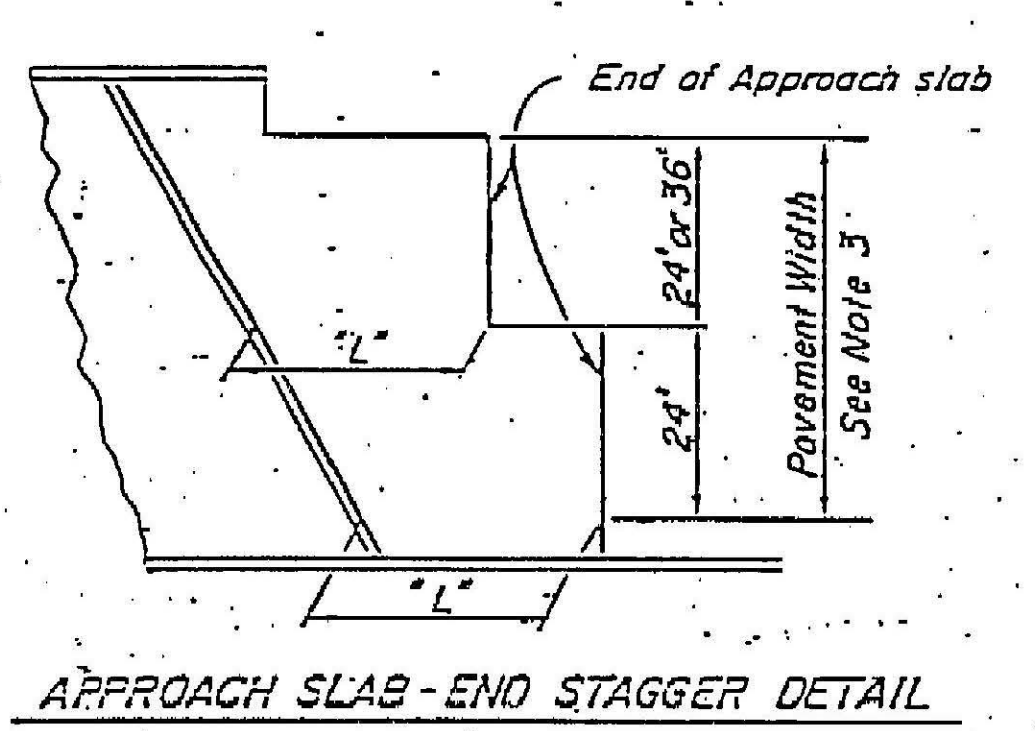
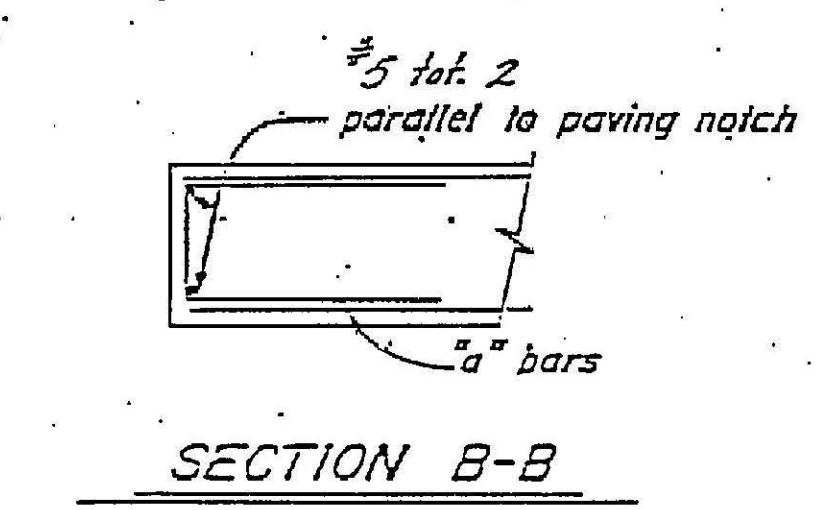
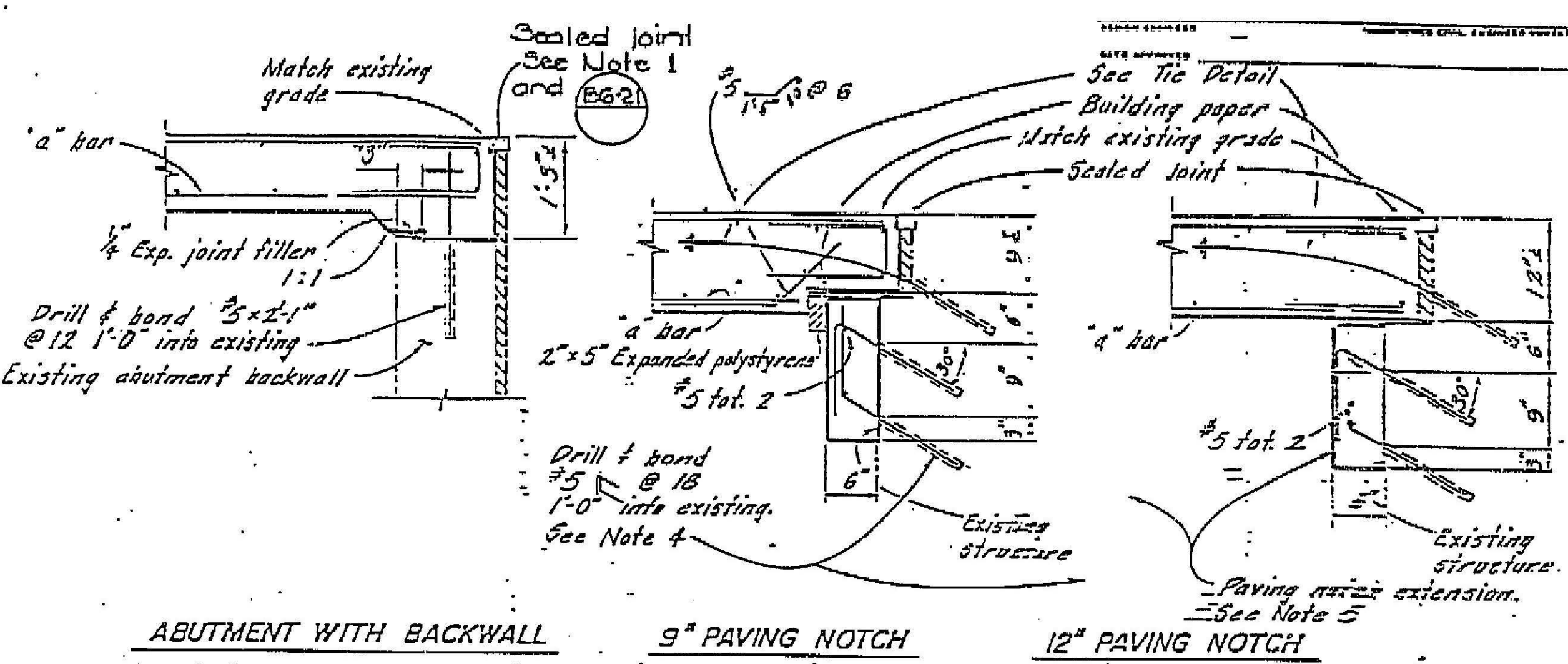
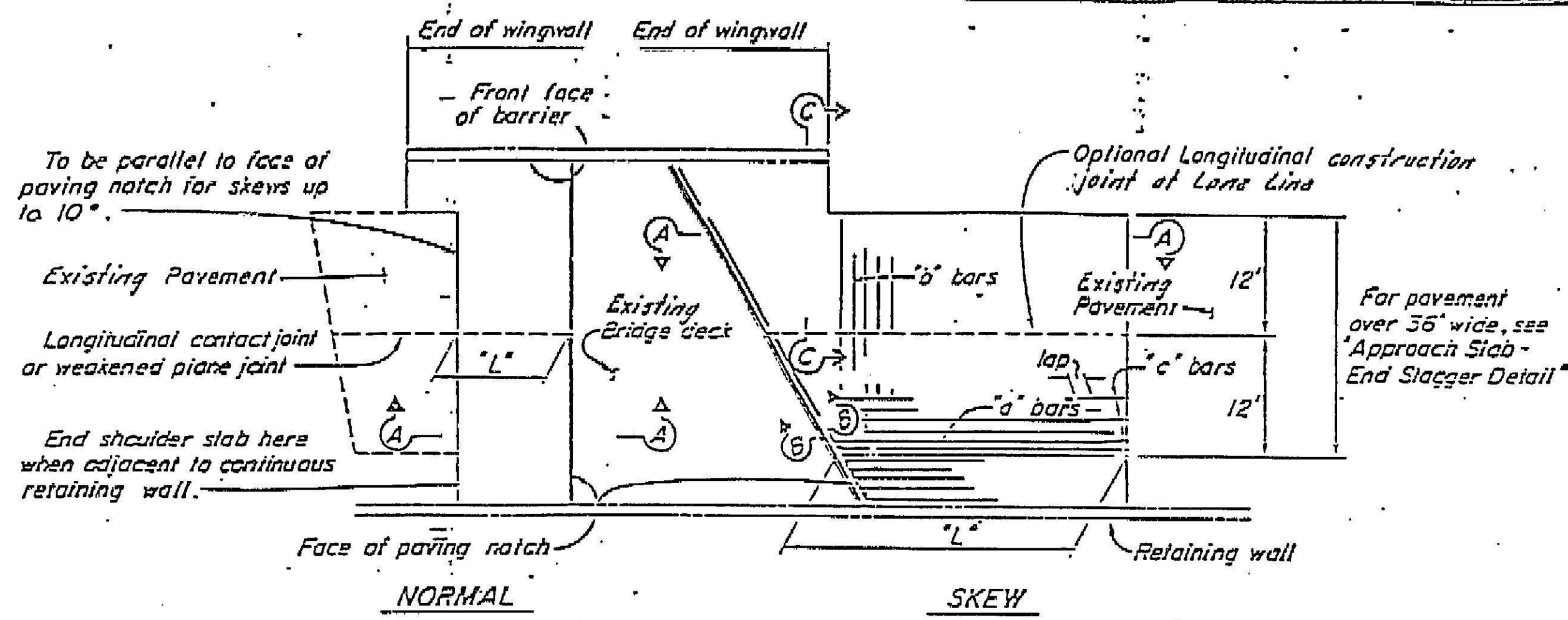
Note:
All reinforcement #11 unless otherwise noted.
Numbers at ends of bars indicate distance in feet from $\&$ Bent for top reinforcement and $\&$ Span for bottom reinforcement.
Bundled bars shown thus: $\text{---} \text{---} \text{---}$



BOTTOM REINFORCEMENT
No Scale

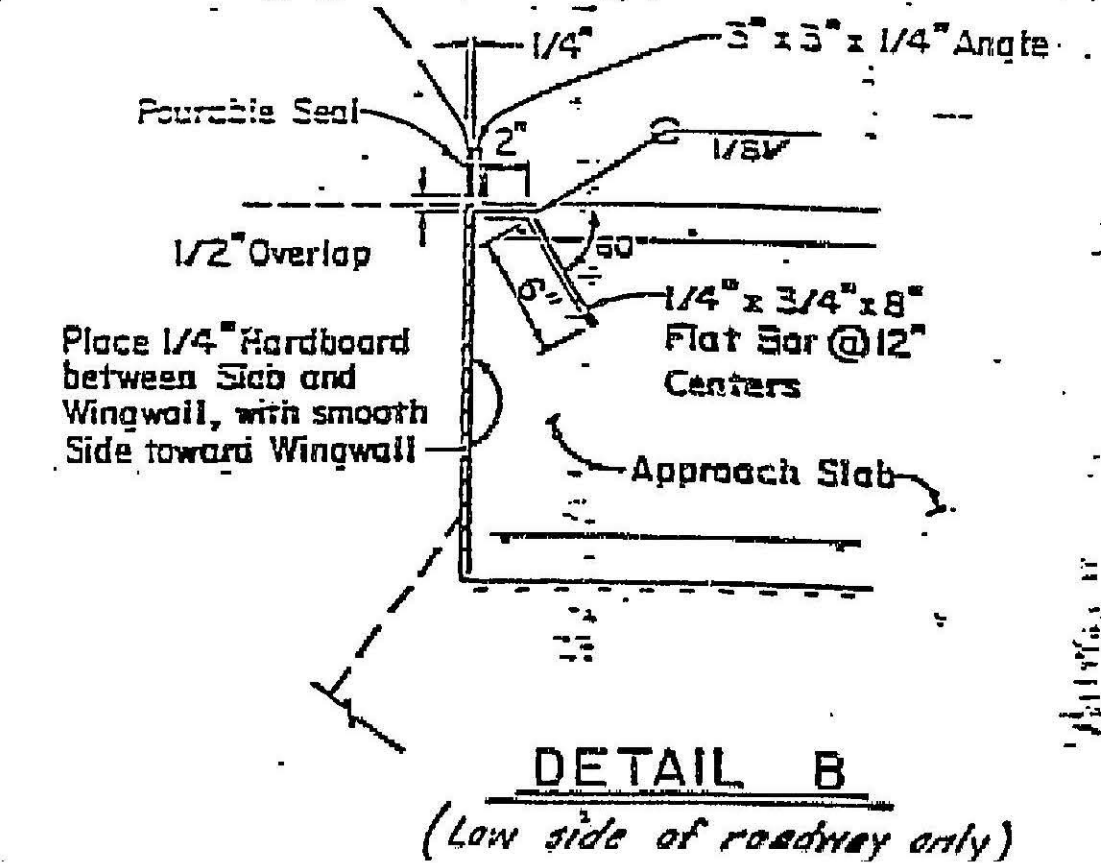
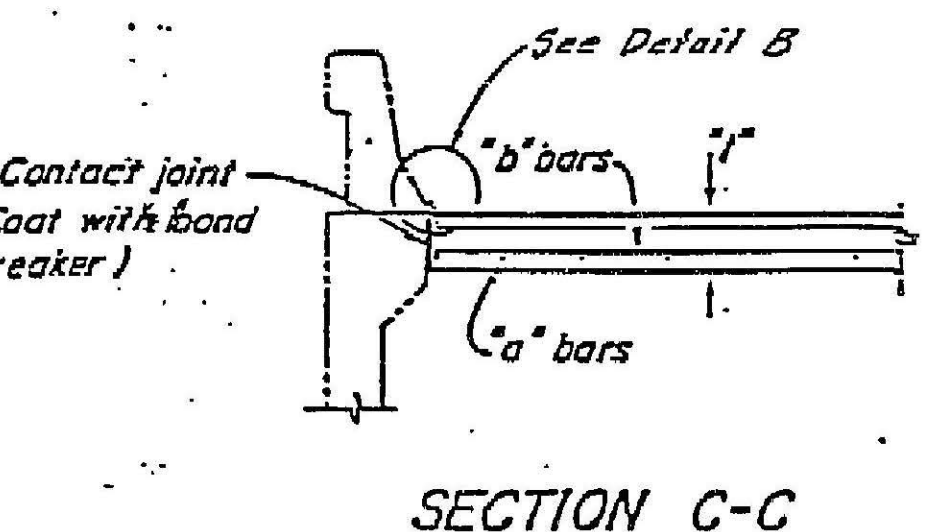
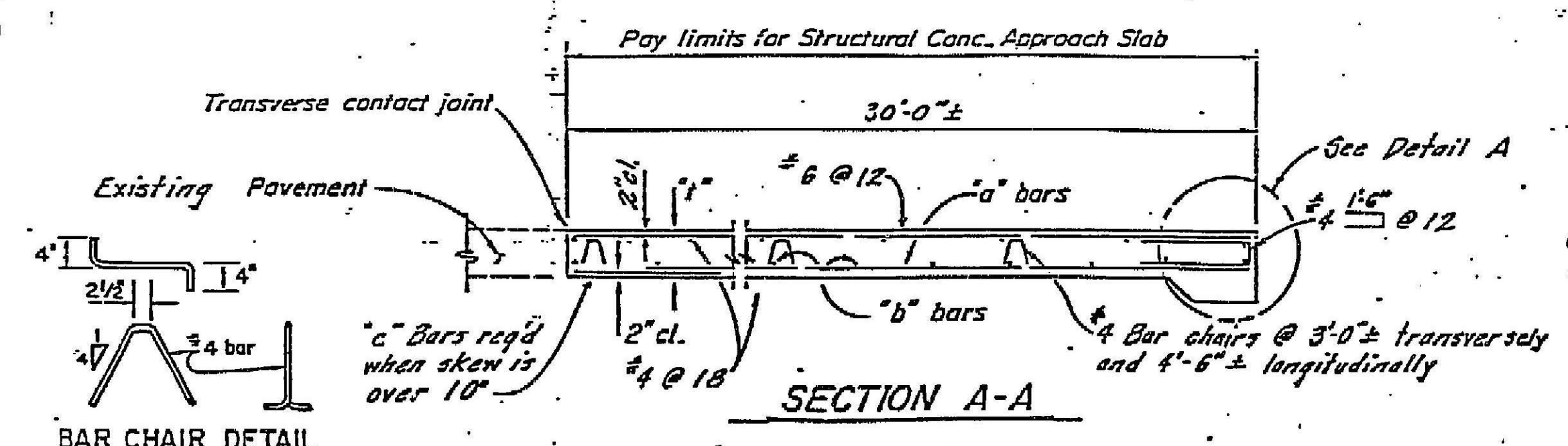
NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NO CORRECTIONS THIS SHEET



- Notes:
- Sealed joint M.R. (Movement Rating) - Adjust bar reinforcement to clear a sawcut for sealed joint, when required.
 - All metal parts to be galvanized. #5 Grade 60 reinforcing bar may be substituted for #5 rod. Place parallel to Roadway.
 - Approach slabs to skewed structures shall be staggered at lane lines. Staggered lines may be 24\"/>

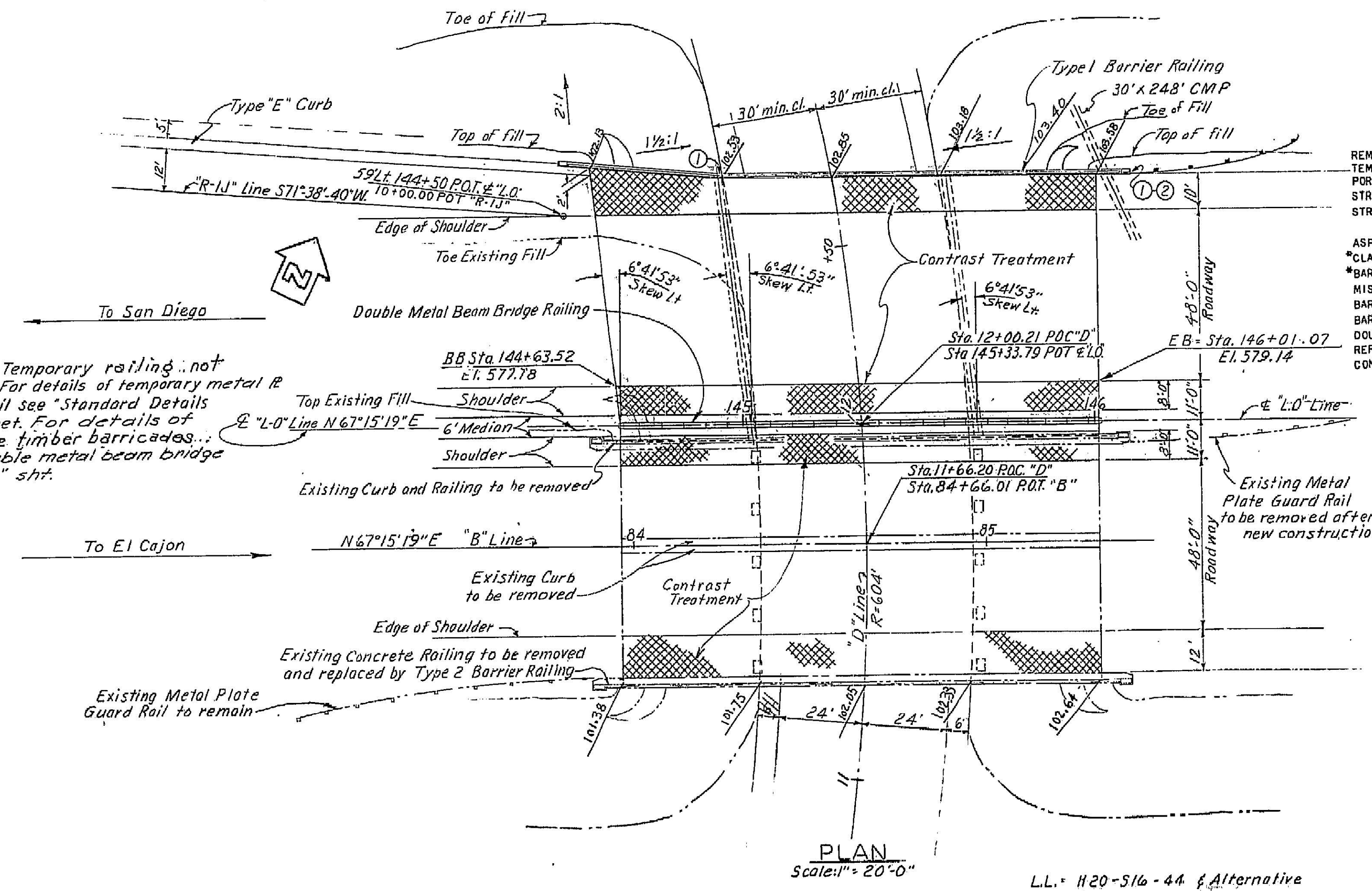
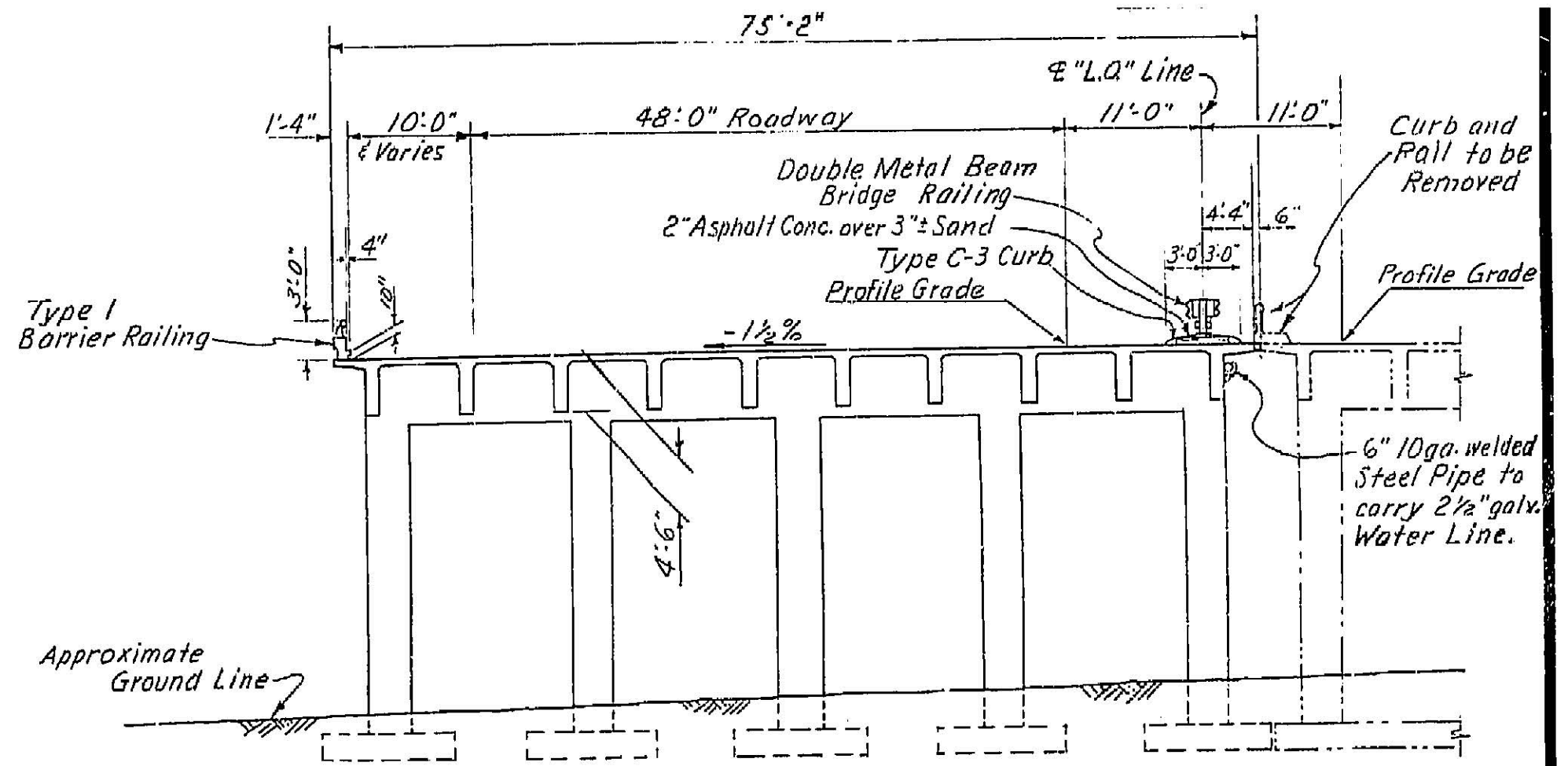
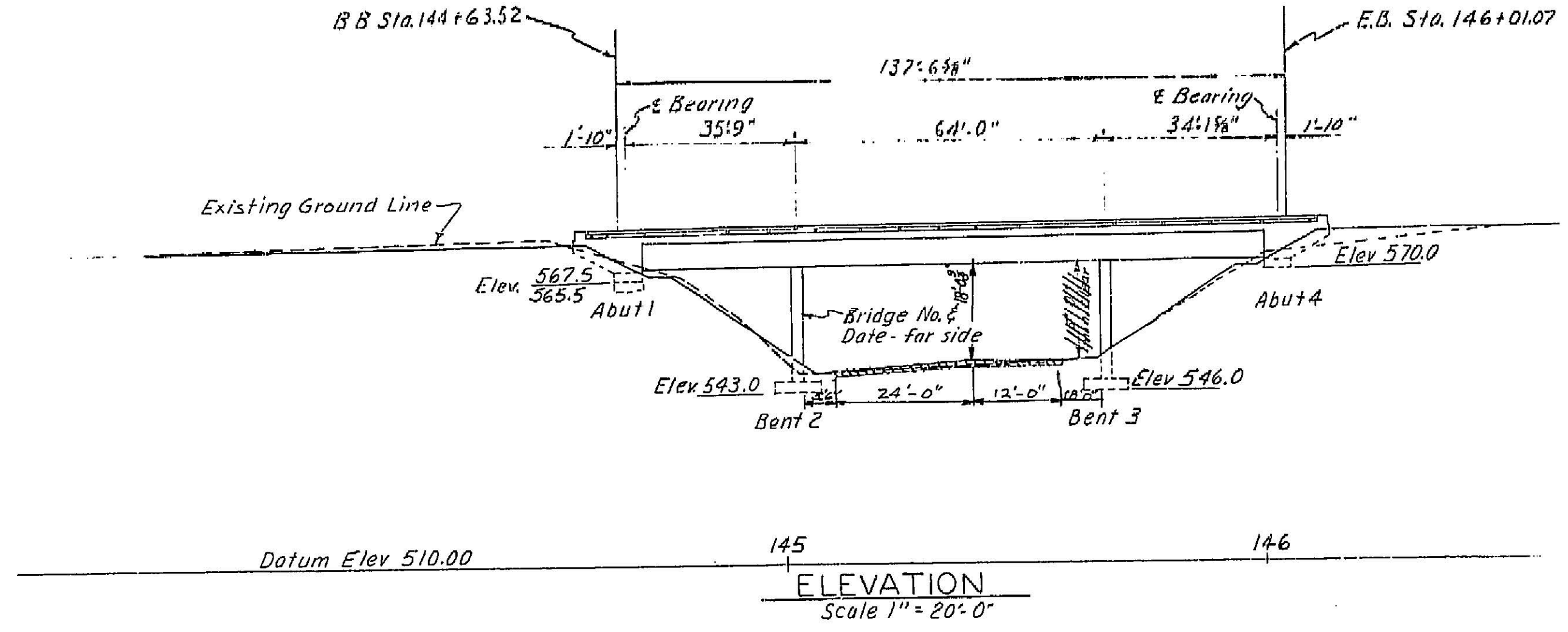
Approach Slab Type	L	I	Bar Reinforcement Table			
			a bars	b bars	c bars	Lap
Type 2	30'-0"	1.00'	#8-29'5" @ 6"	#5 @ 12"	#5 @ 12"	2'-4"



NOTE: THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DESIGN	BY	CHECKED
DETAILS		
QUANTITIES		

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



Note: Temporary railing not shown. For details of temporary metal & guard rail see "Standard Details No. 2" sheet. For details of portable timber barricades see "Double metal beam bridge railing" sheet.

APPROXIMATE QUANTITIES

REMOVING CONCRETE (BRIDGE)	33 C.Y.
TEMPORARY RAILING	140 L.F.
PORTABLE TIMBER BARRICADES	20 EA.
STRUCTURE EXCAVATION	500 C.Y.
STRUCTURE BACKFILL	218 C.Y.
ASPHALT CONCRETE	7.6 TONS
*CLASS "A" CONCRETE (BRIDGE)	836 C.Y.
*BAR REINFORCING STEEL (BRIDGE)	176,000 LBS.
MISCELLANEOUS METAL (BRIDGE)	5,700 LBS.
BARRIER RAILING (TYPE 1)	162 L.F.
BARRIER RAILING (TYPE 2)	156 L.F.
DOUBLE BLOCKED OUT BEAM BARRIER (BRIDGE)	138 L.F.
REFINISHING BRIDGE DECK	950 S.F.
CONTRAST TREATMENT	282 S.Y.

*FINAL QUANTITIES

INDEX TO PLANS

SHEET NO.	TITLE
1.	GENERAL PLAN
2.	GRID SHEET
3.	FOUNDATION PLAN
4.	ABUTMENT 1
5.	ABUTMENT 4
6.	BENTS 2 & 3
7.	TYPICAL SECTION
8.	GIRDER LAYOUT
9.	GIRDER REINFORCEMENT
10.	DOUBLE METAL BEAM BRIDGE RAILING
11.	BARRIER RAILING
12.	STANDARD DETAILS NO. 1
13.	STANDARD DETAILS NO. 2

① Paint Bridge Number and Date
② Paint Name of Bridge

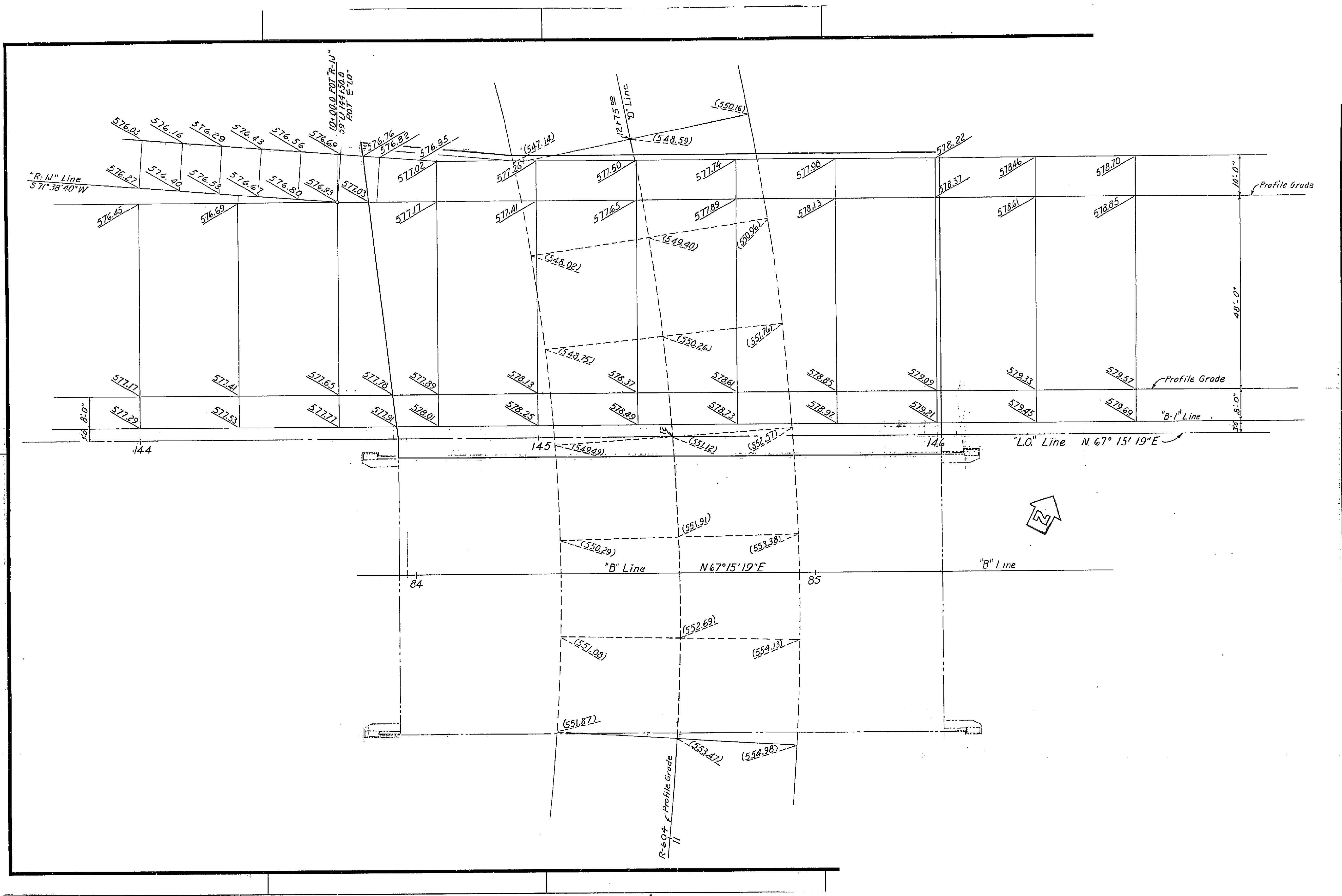
BENCH MARK
N.E. corner of Light Standard Base
50' ± West of Abut #1 on North side
of off-ramp. Assumed El. 100.00

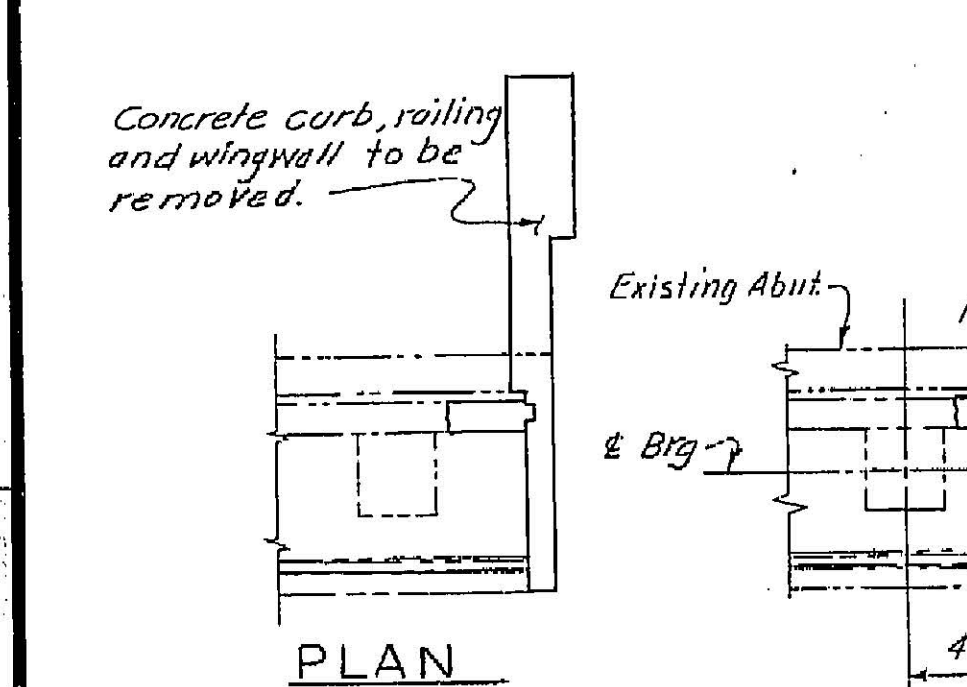
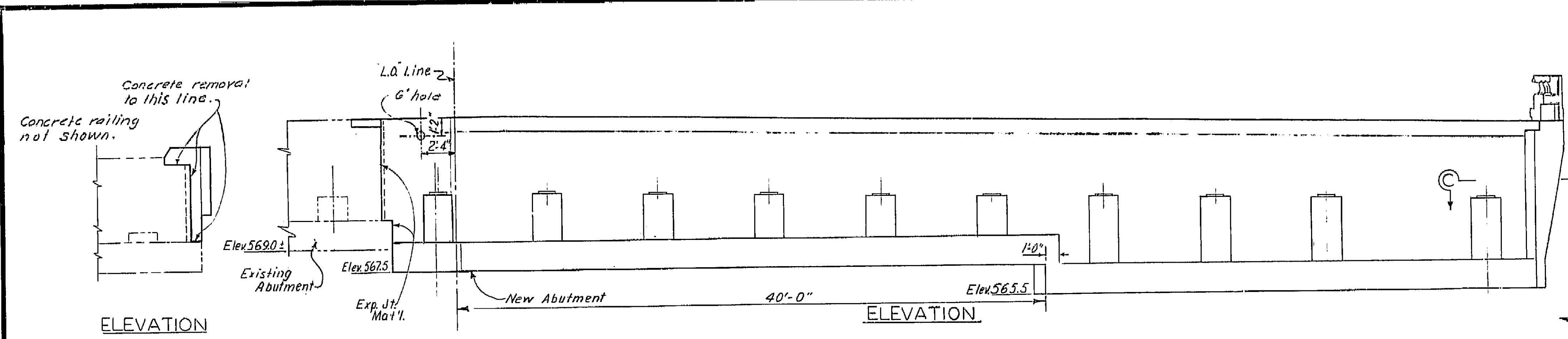
FOR "GENERAL NOTES" SEE "STANDARD DETAILS NO. 2" SHEET.

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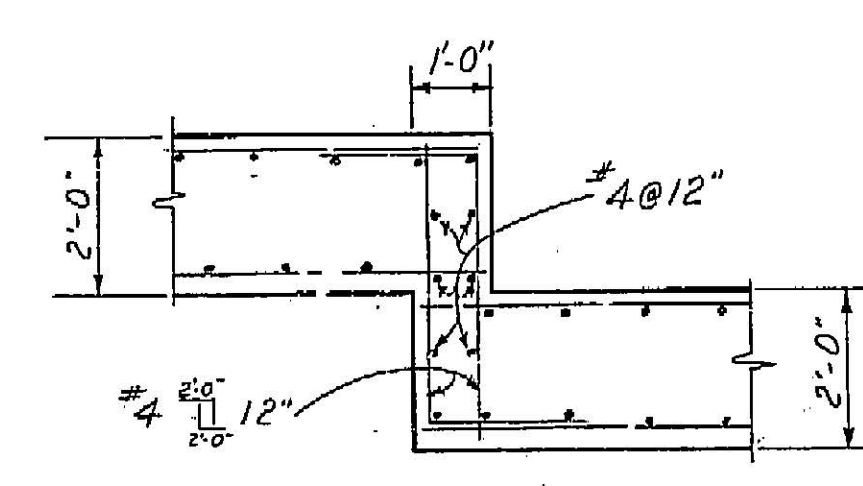
L.L. H20-S16-44 Alternative

99



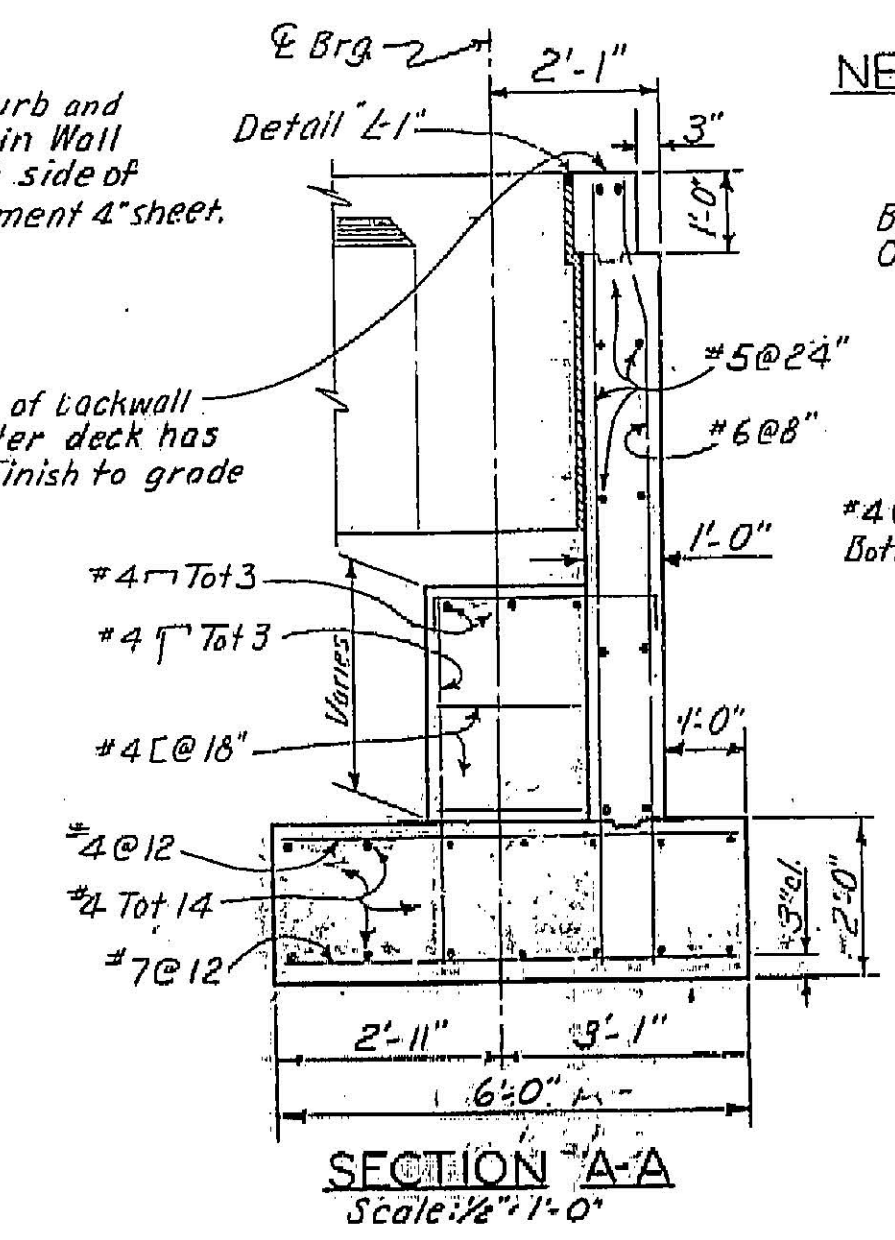


LIMITS OF REMOVAL OF ABUTMENT, LEFT SIDE EXIST. BRIDGE
Scale 1/4" = 1'-0"

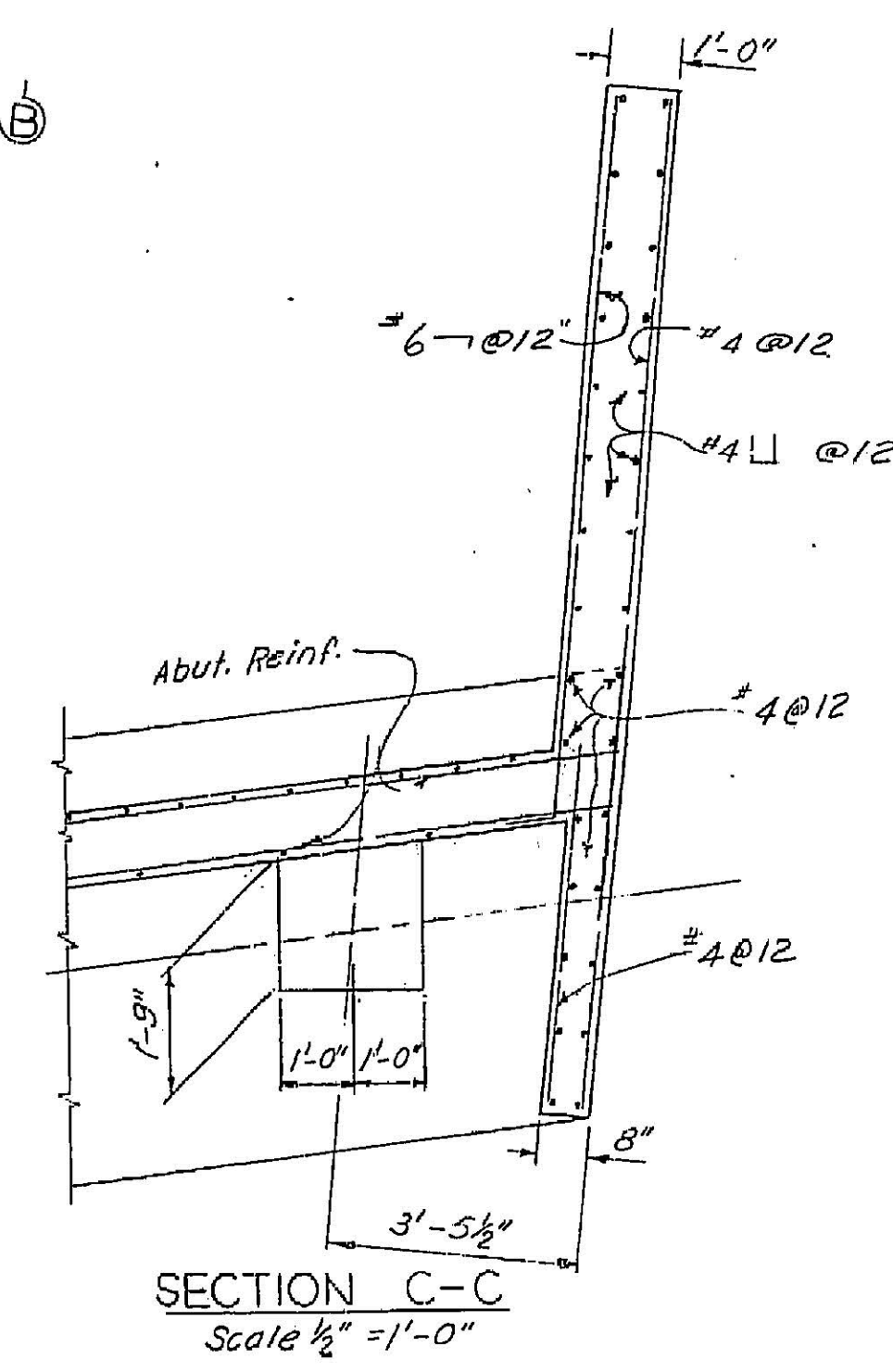
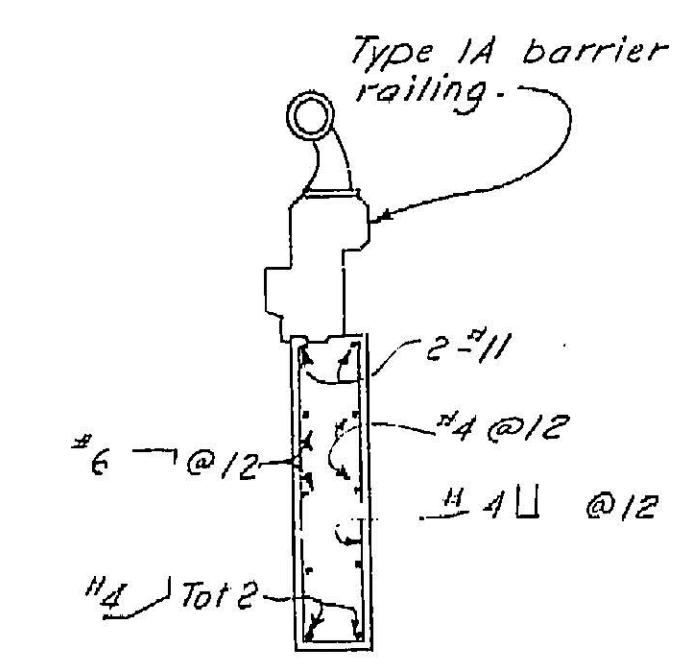
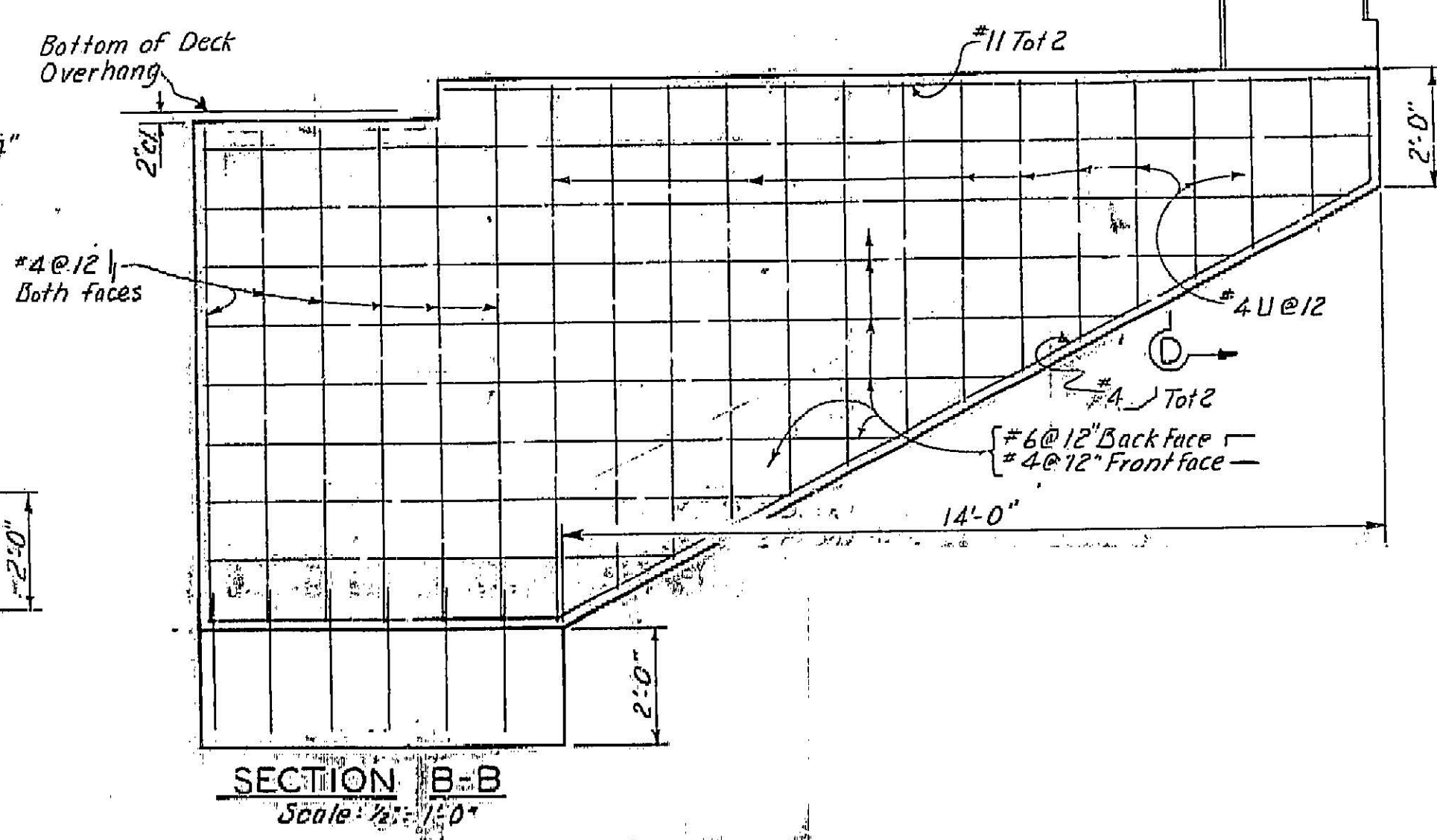


NOTE: For detail of curb and railing on existing Curbin Wall and Wingwall on right side of existing bridge see 'Abutment 4' sheet.

This portion of lockwall to be placed after deck has been finished. Finish to grade of deck.

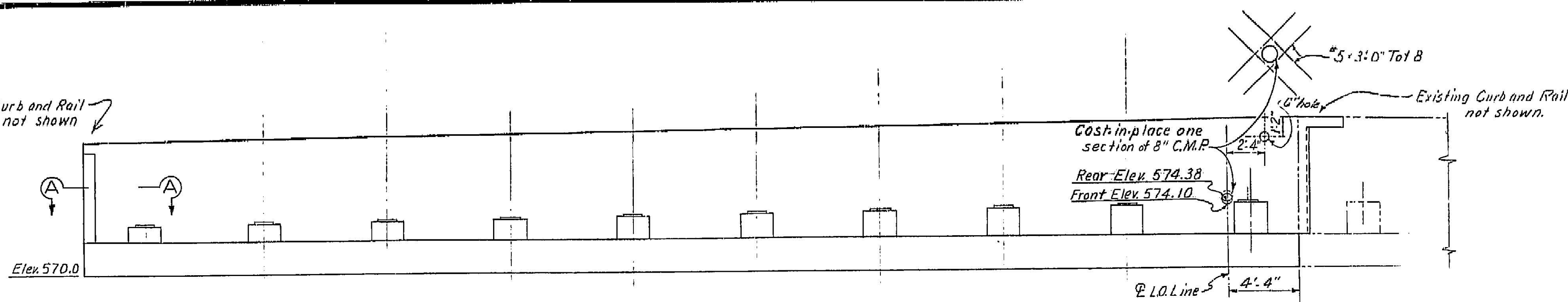


NEW CONSTRUCTION
Scale 1/4" = 1'-0"

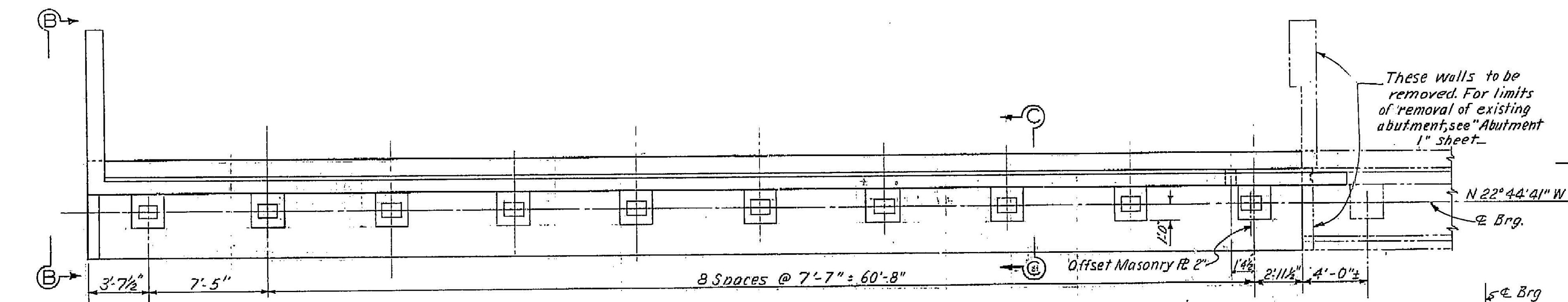


201

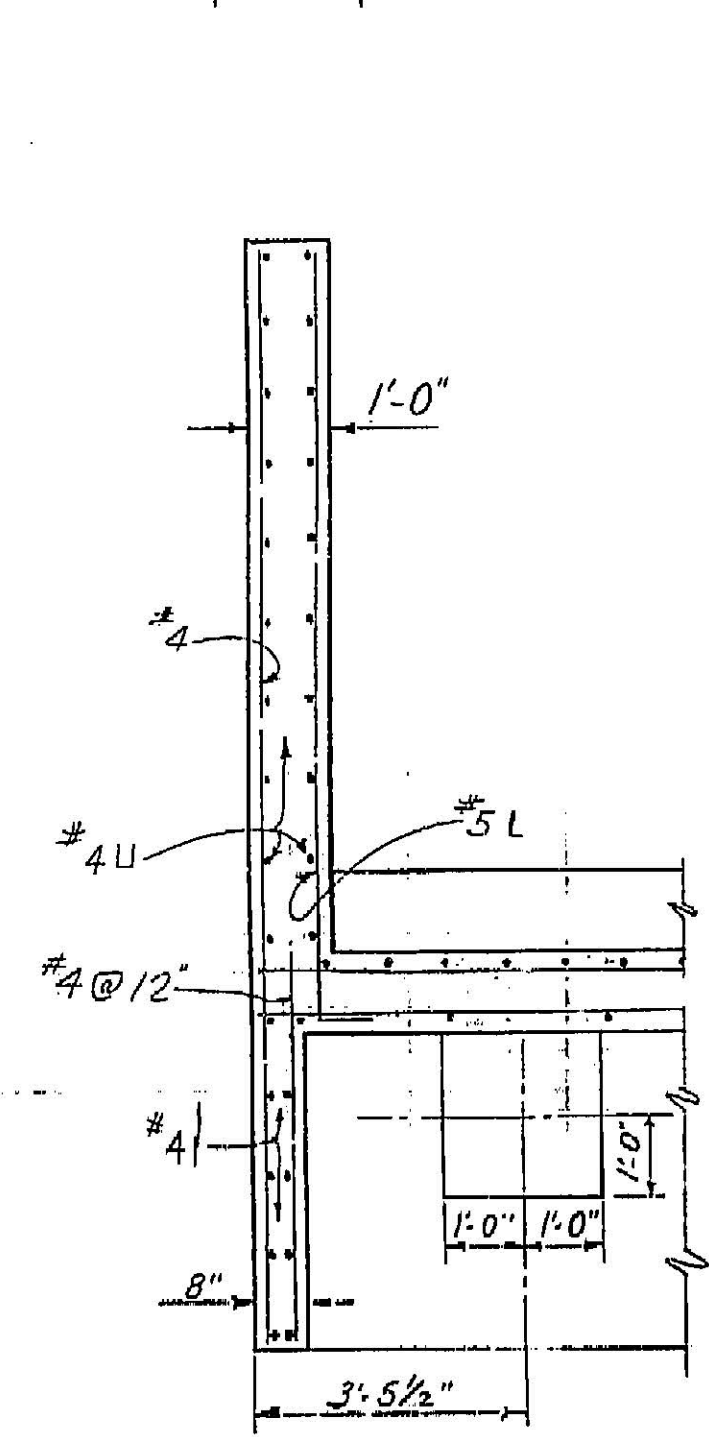
Curb and Rail not shown



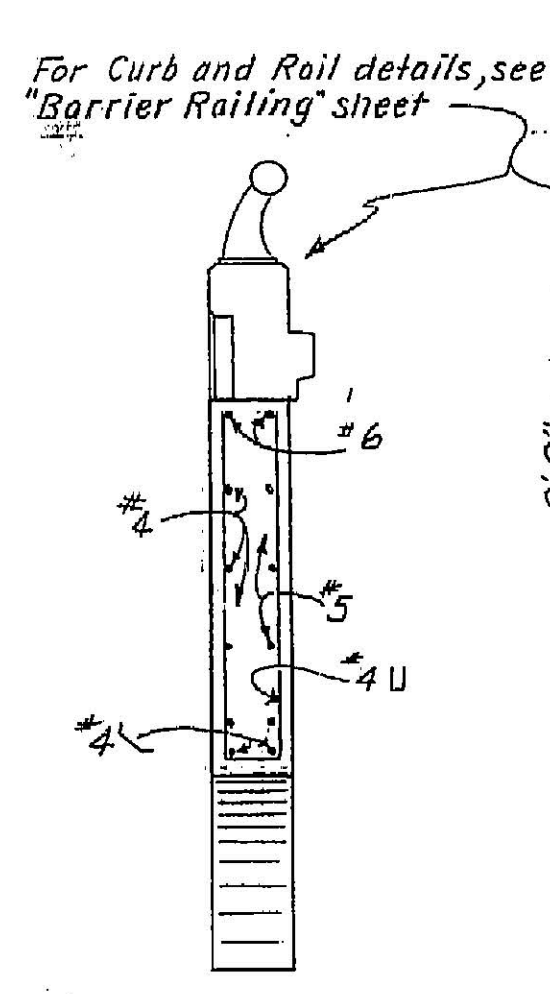
ELEVATION
Scale 1/2" = 1'-0"



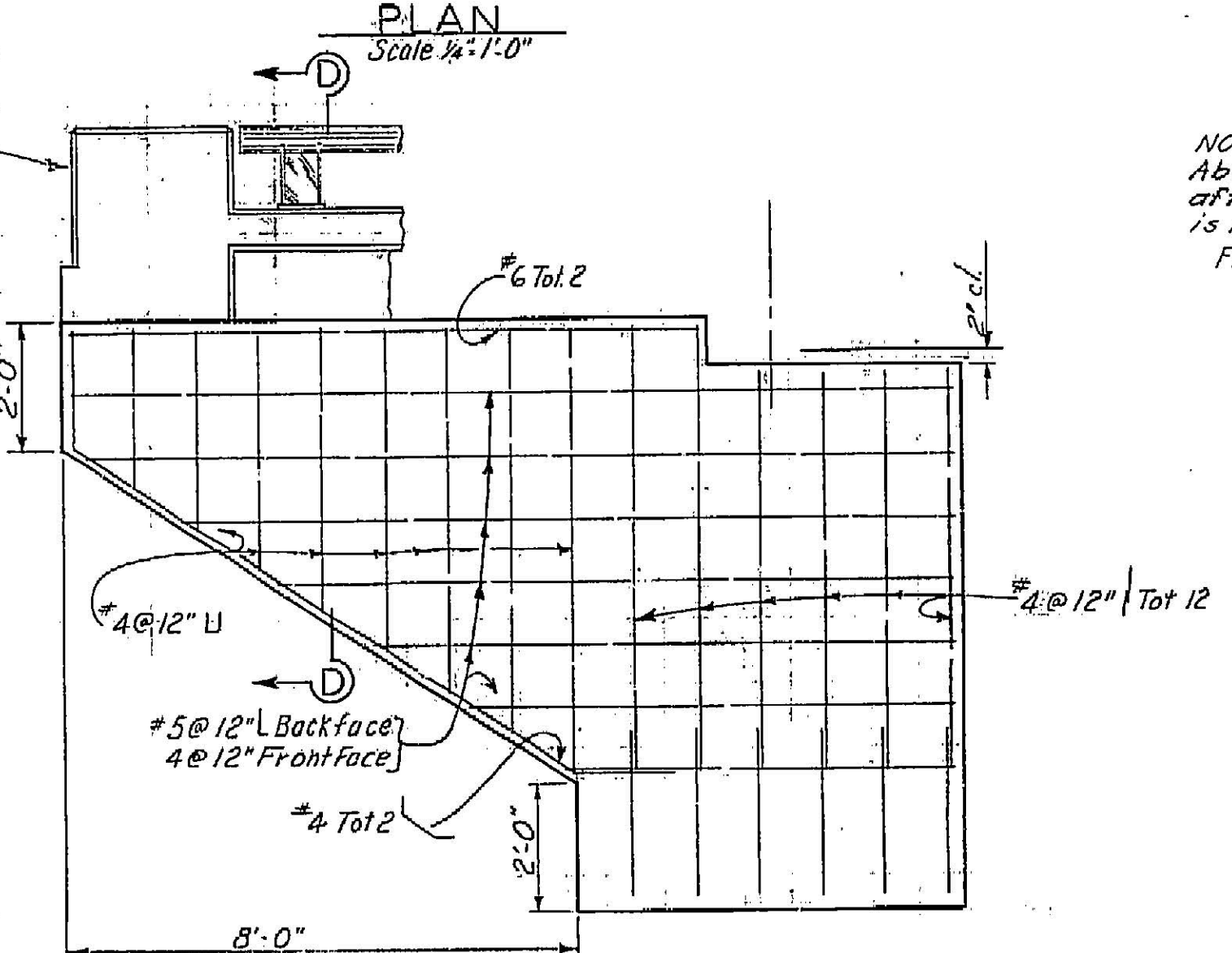
PLAN
Scale 1/2" = 1'-0"



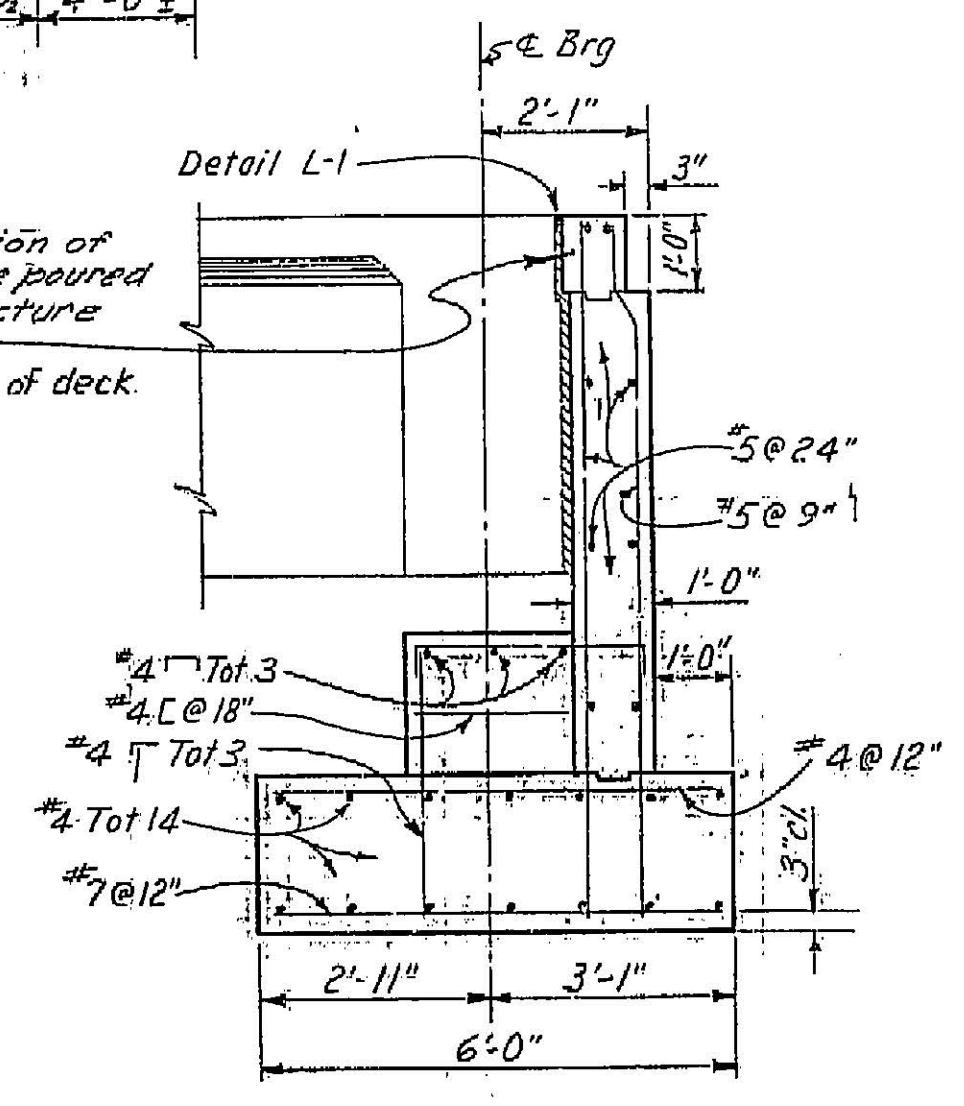
SECTION A-A
Scale 1/2" = 1'-0"



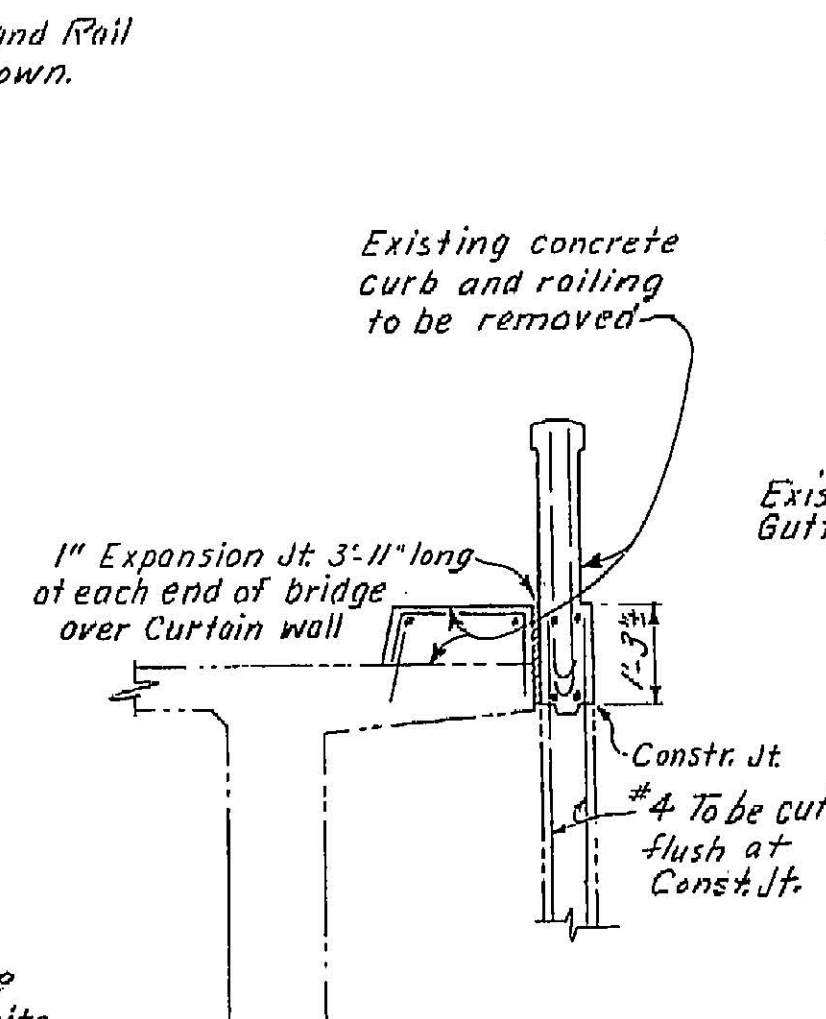
SECTION DD
Scale 1/2" = 1'-0"



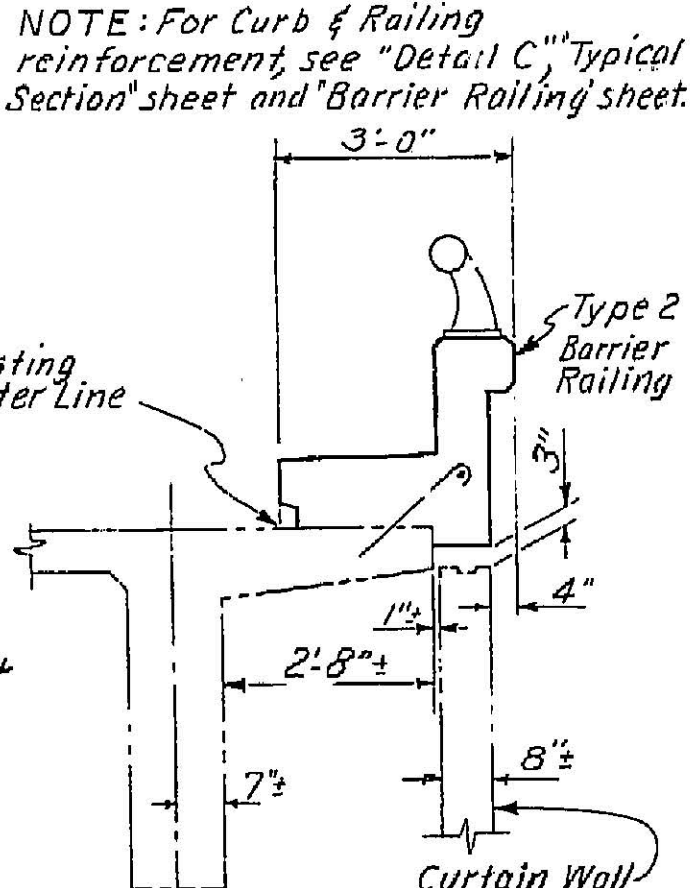
SECTION B-B
Scale 1/2" = 1'-0"



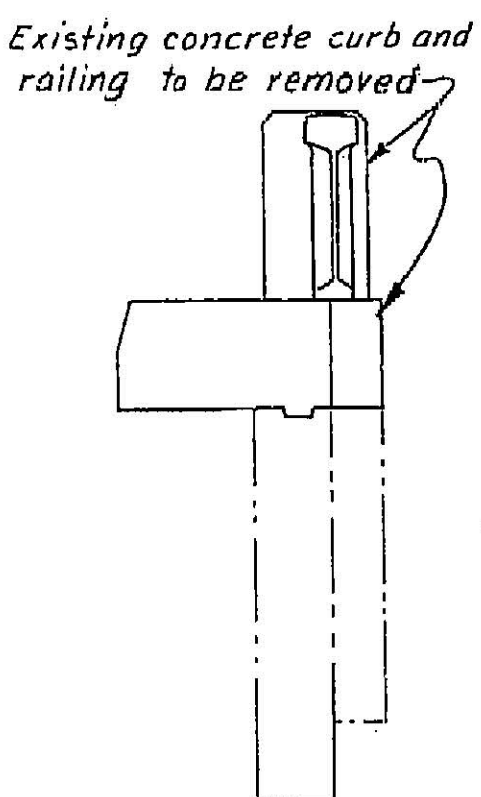
SECTION C-C
Scale 1/2" = 1'-0"



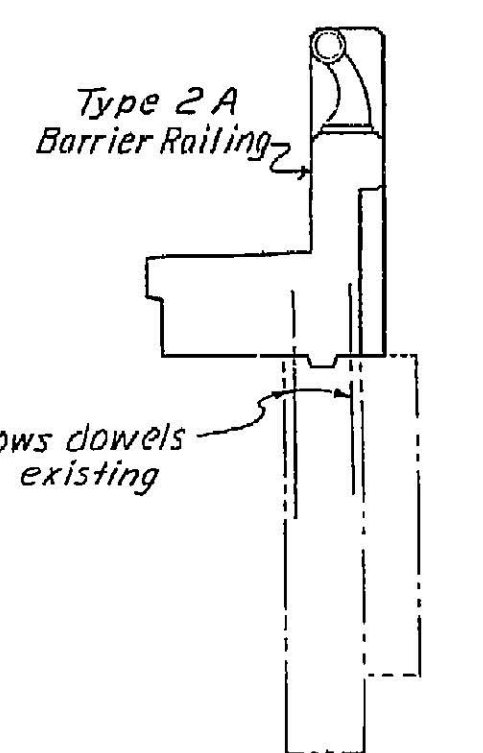
LIMITS OF REMOVAL
CURTAIN WALL, RIGHT SIDE
Scale 1/2" = 1'-0"



NEW CONSTRUCTION
CURTAIN WALL, RIGHT SIDE
Scale 1/2" = 1'-0"



LIMITS OF REMOVAL
WINGWALL, RIGHT SIDE
Scale 1/2" = 1'-0"



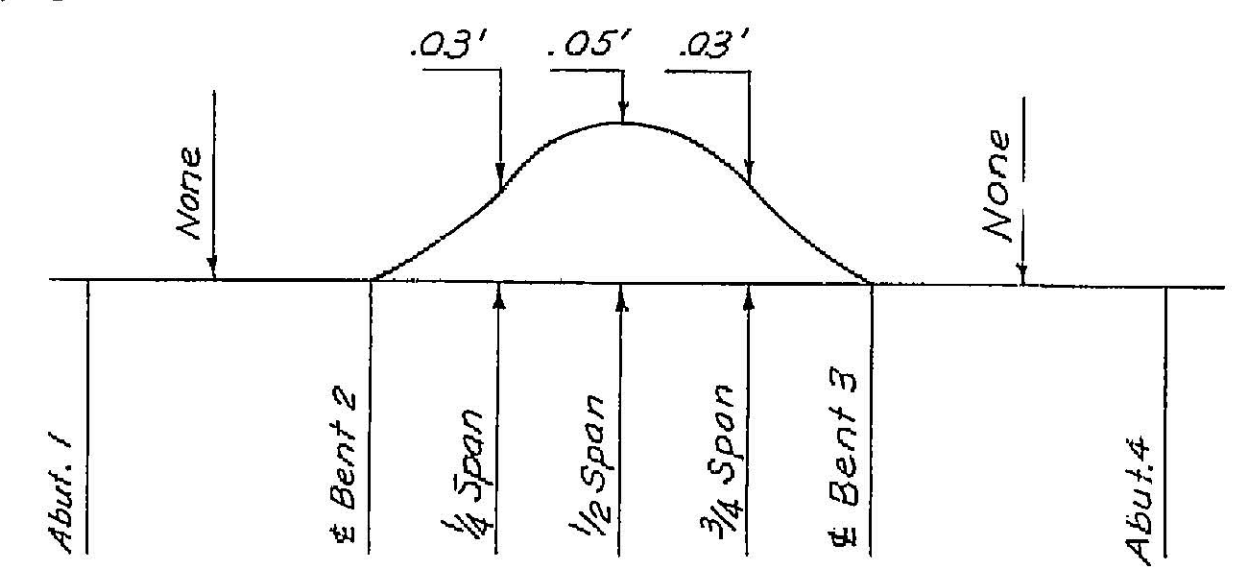
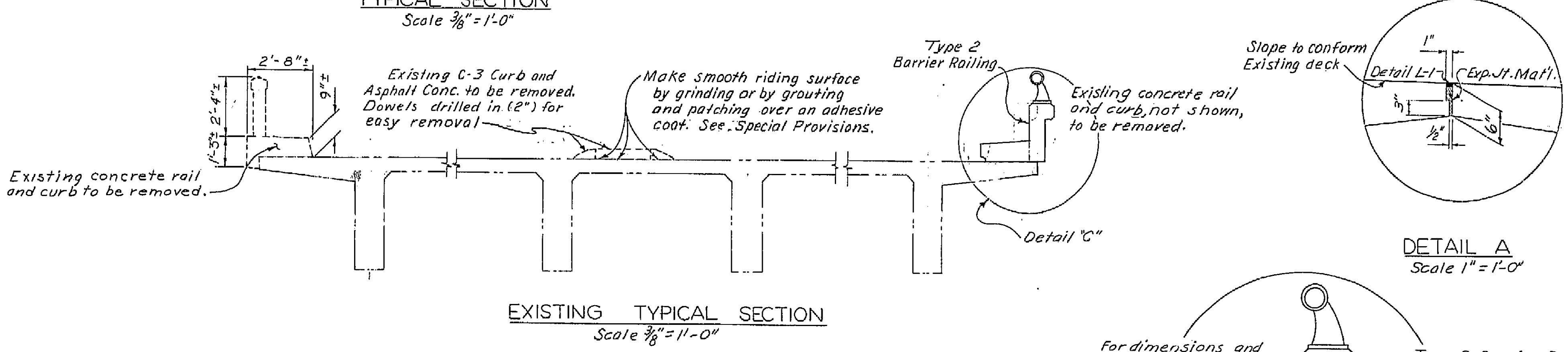
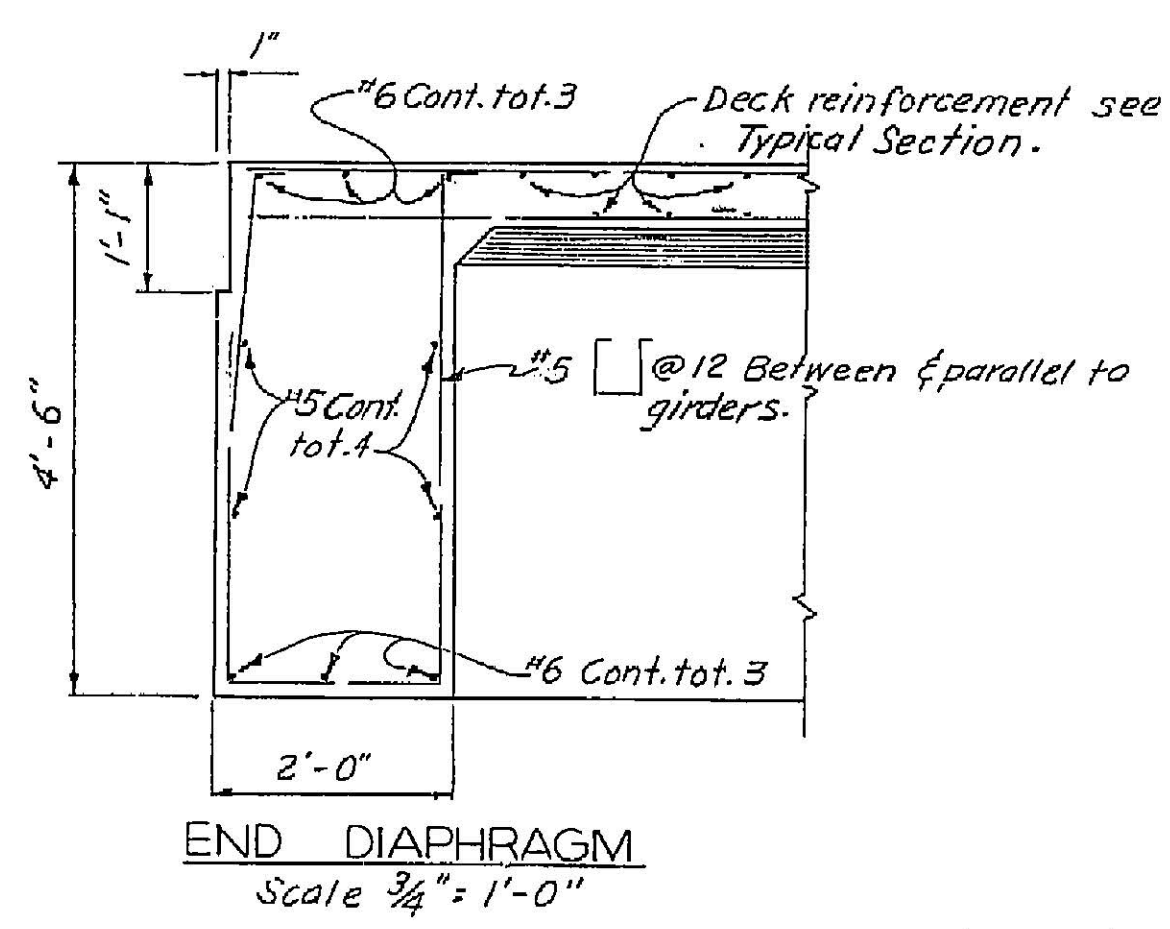
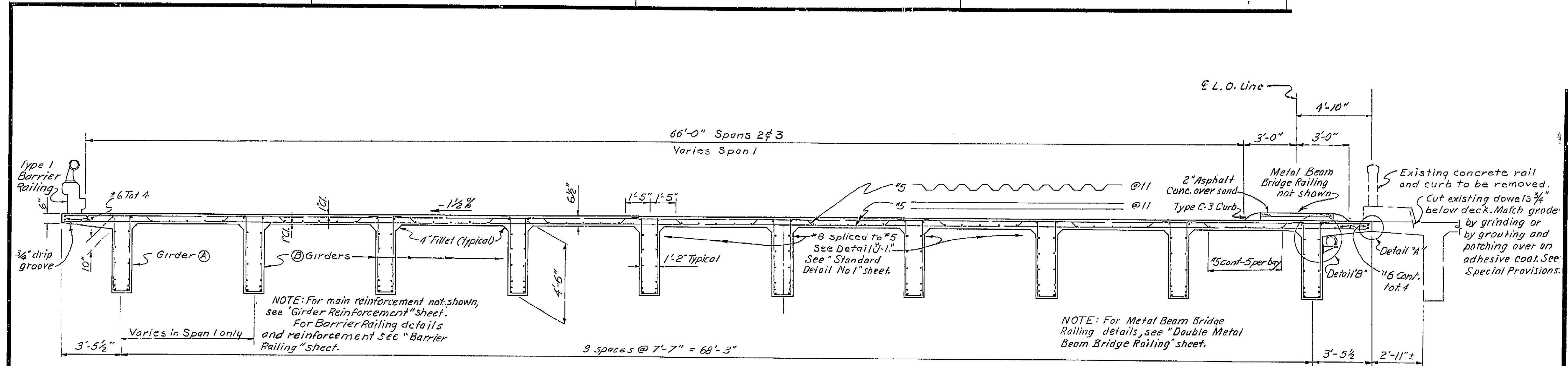
NEW CONSTRUCTION
WINGWALL, RIGHT SIDE
Scale 1/2" = 1'-0"

NOTE: This portion of abut. wall to be poured after superstructure is in place. Finish to grade of deck.

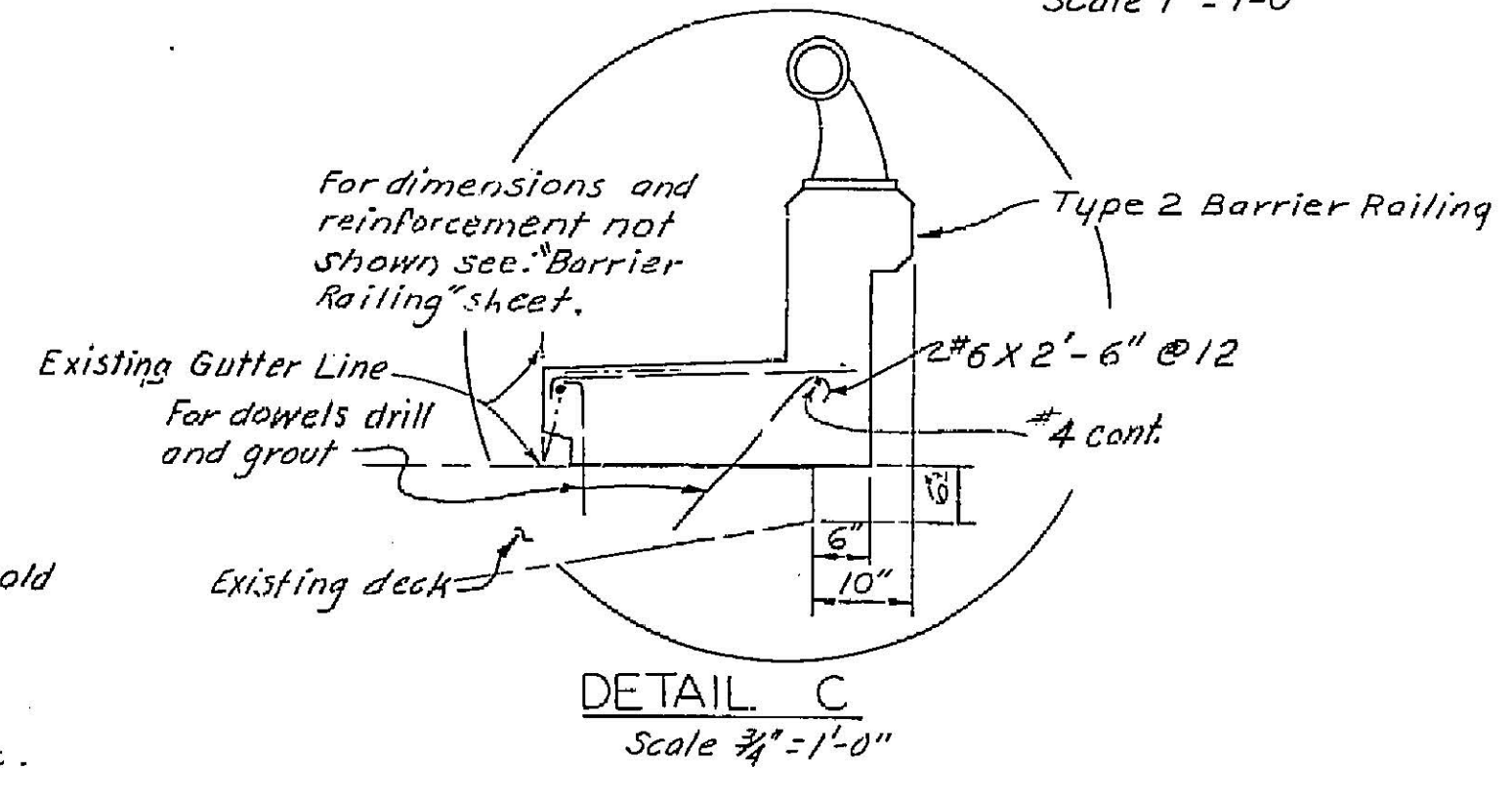
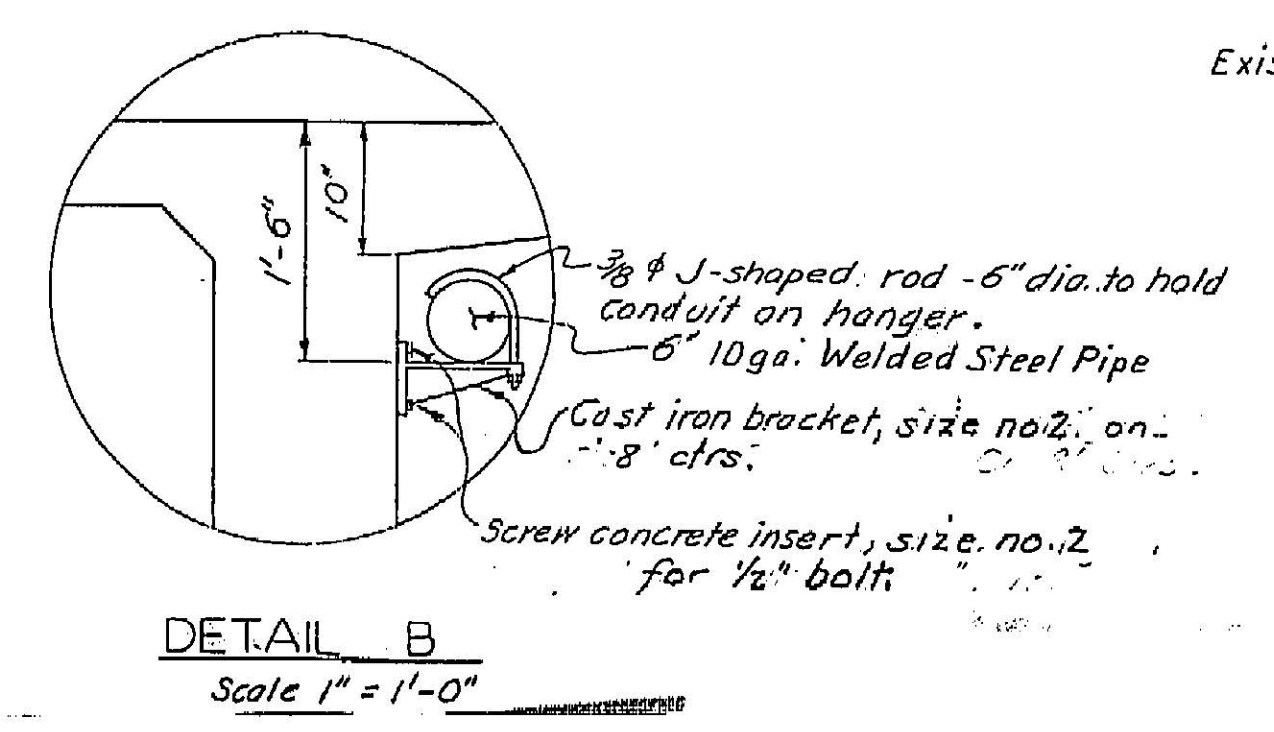
These walls to be removed. For limits of removal of existing abutment, see "Abutment 1" sheet."

NOTE: For Curb & Railing reinforcement, see "Detail C," Typical Section sheet and "Barrier Railing" sheet.

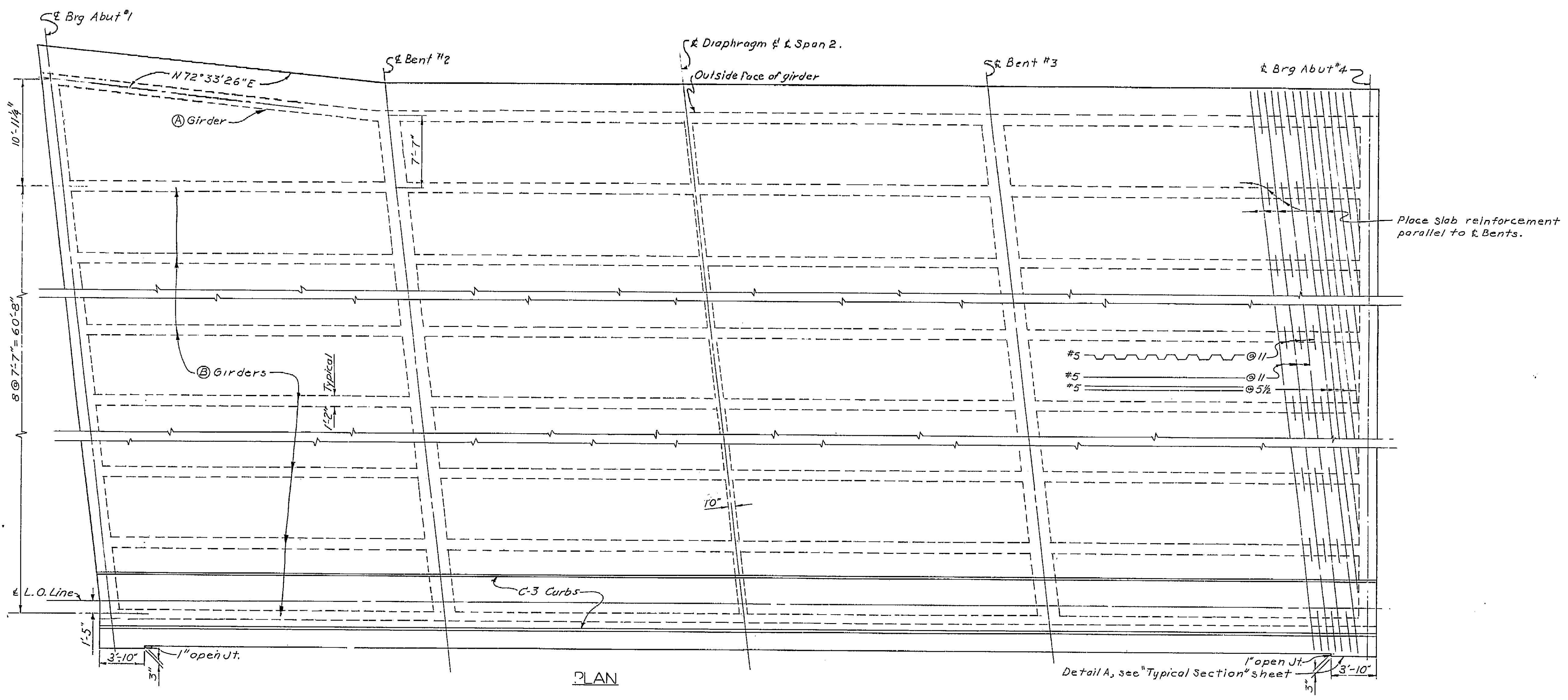
20%



Note:
The total deflection will be reached about 4 years after falsework removal. For values at time of falsework removal divide those shown by 4. The amount of camber for construction will be determined by the engineer.

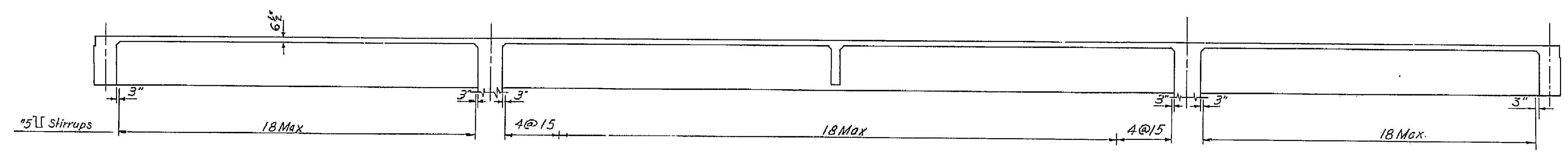


2004

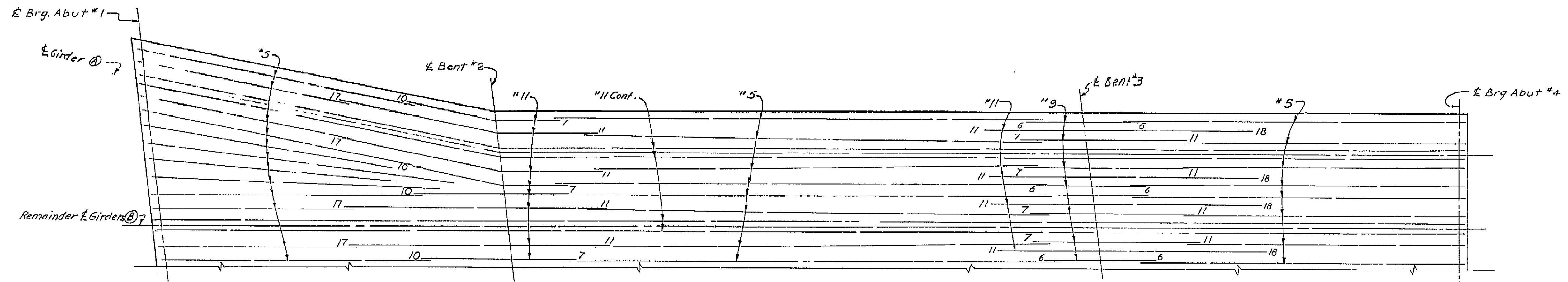


Place slab reinforcement parallel to E Bents.

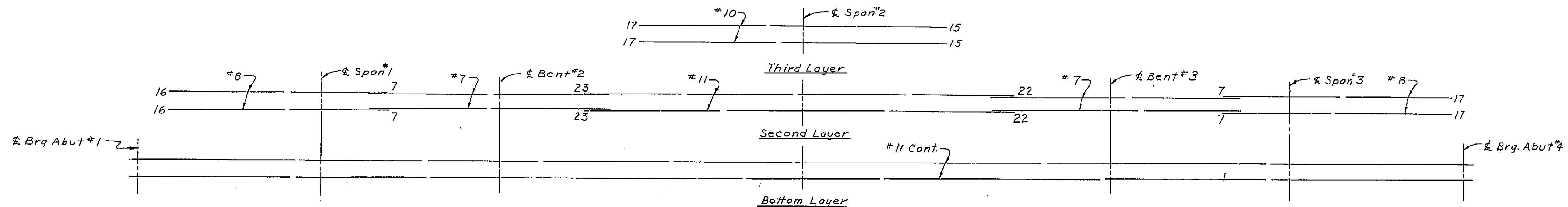
Detail A, see "Typical Section" sheet



205

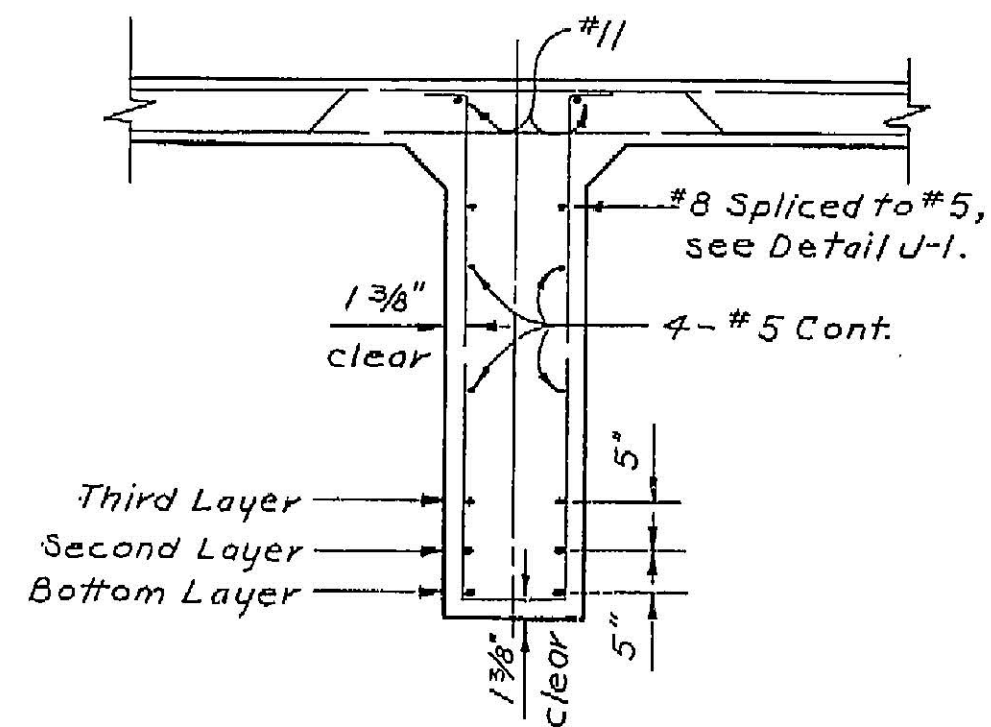


TOP REINFORCEMENT
No Scale



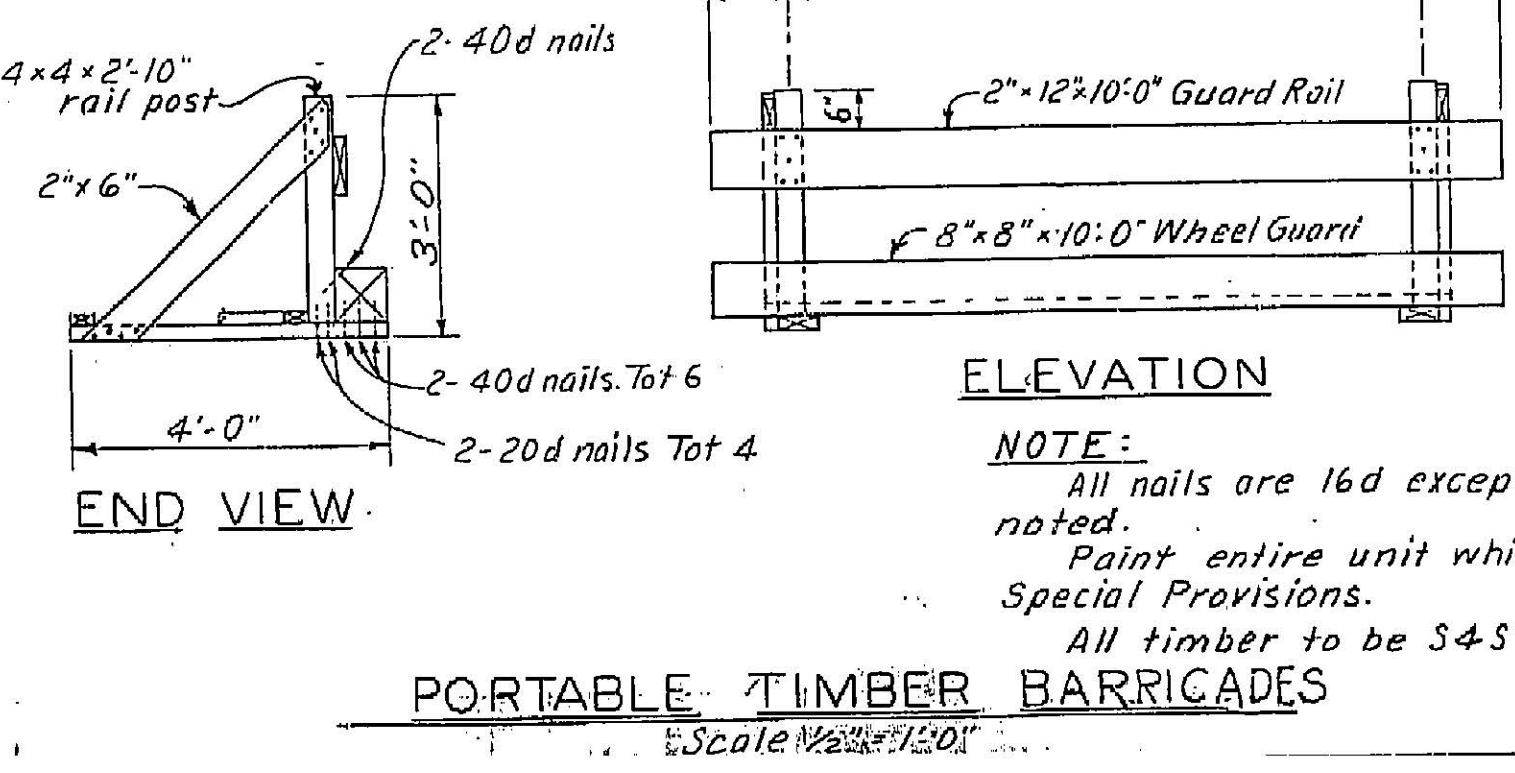
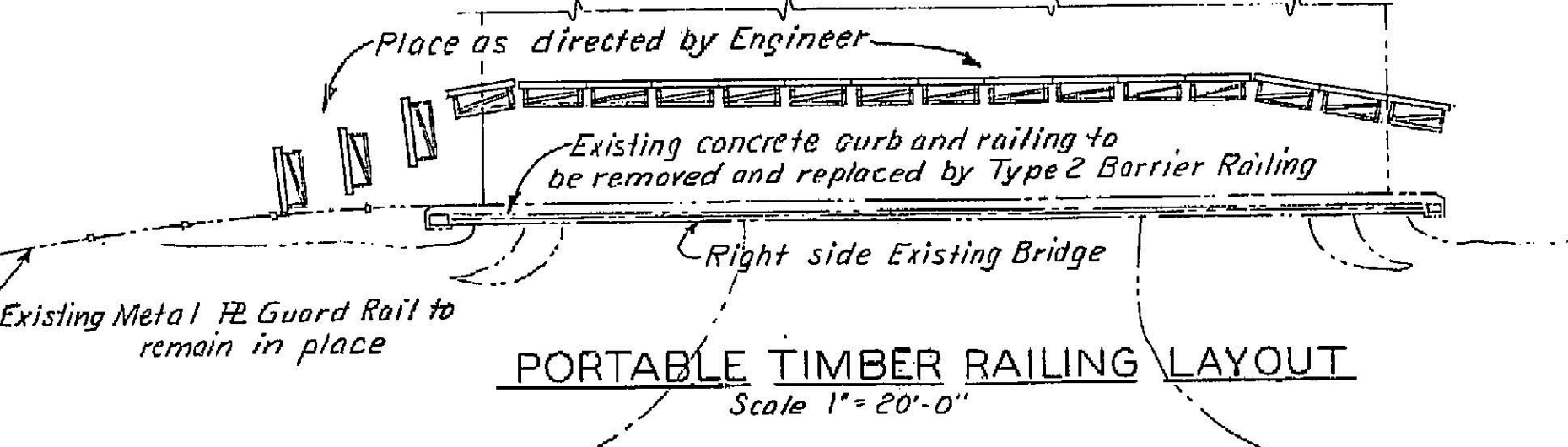
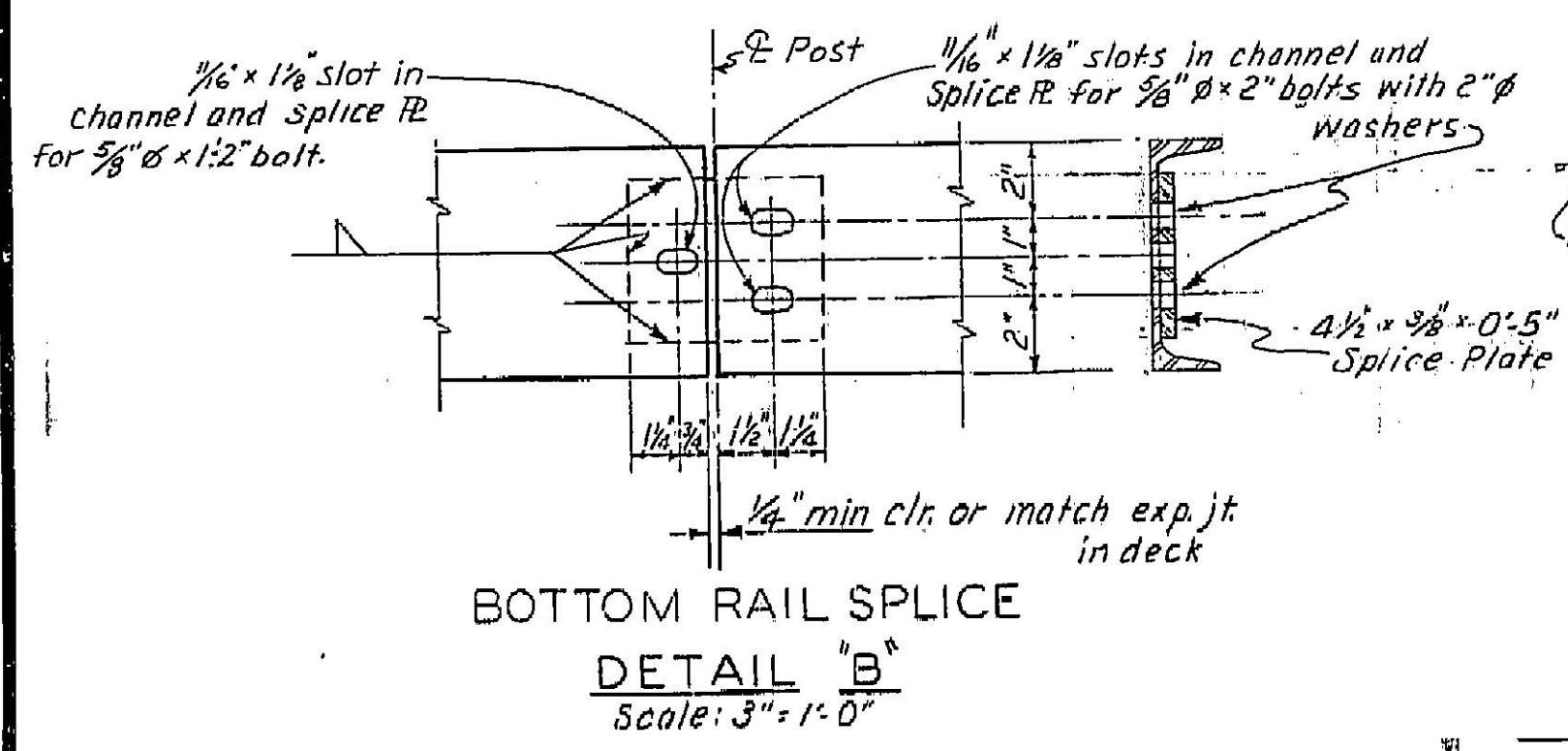
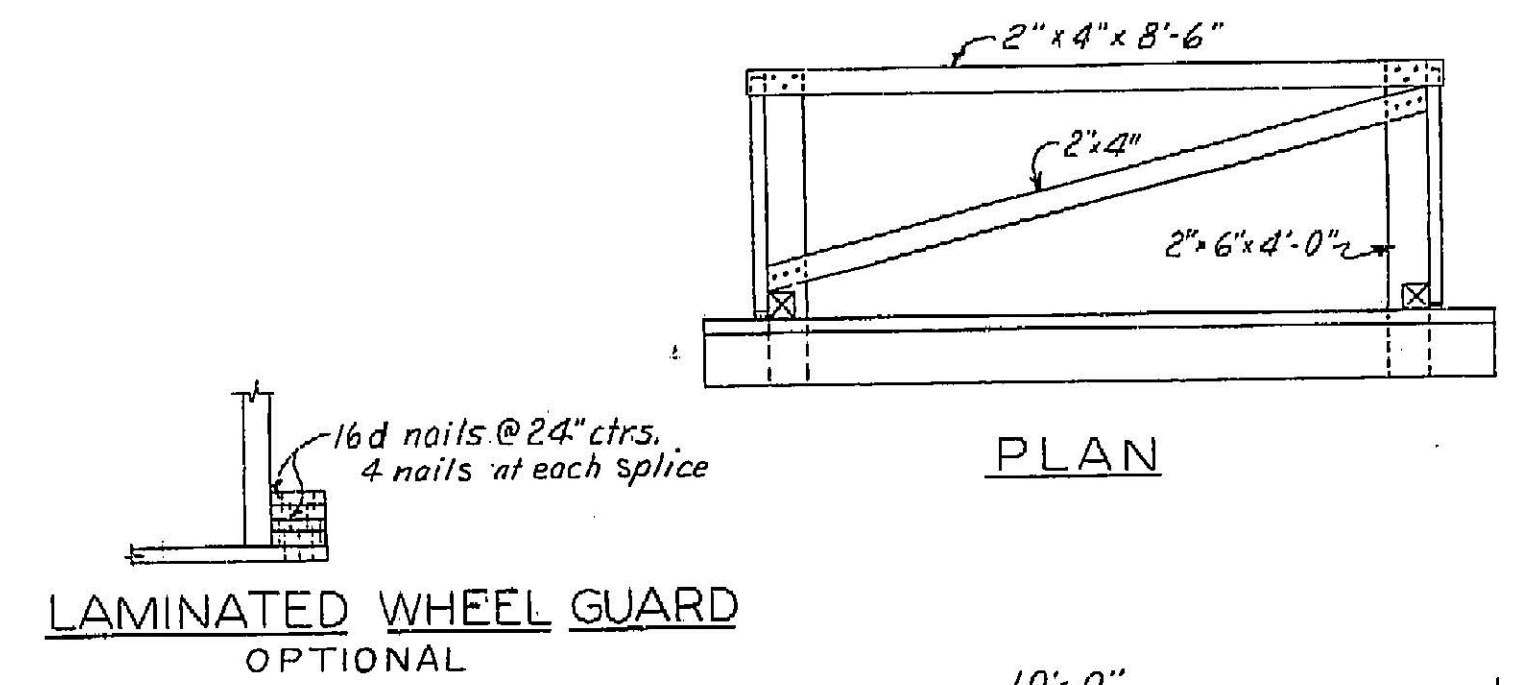
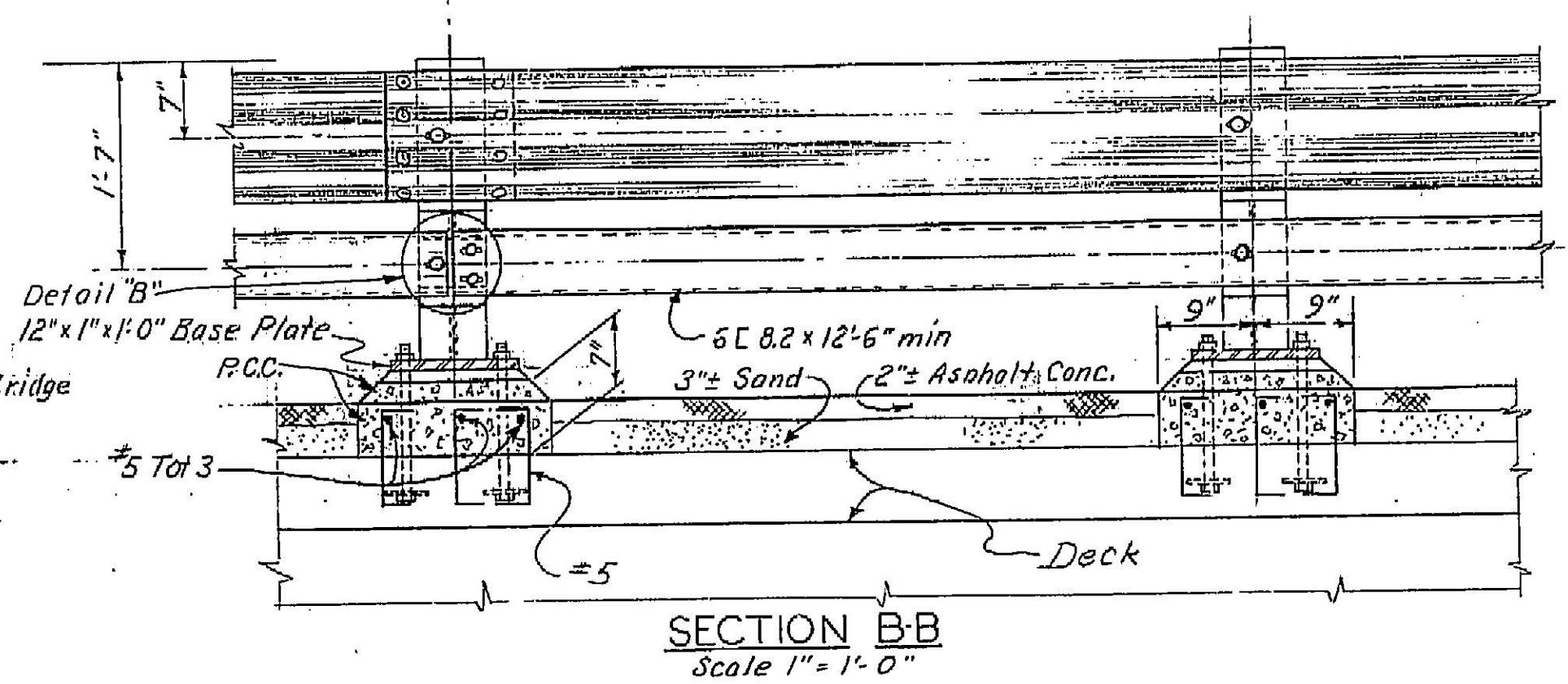
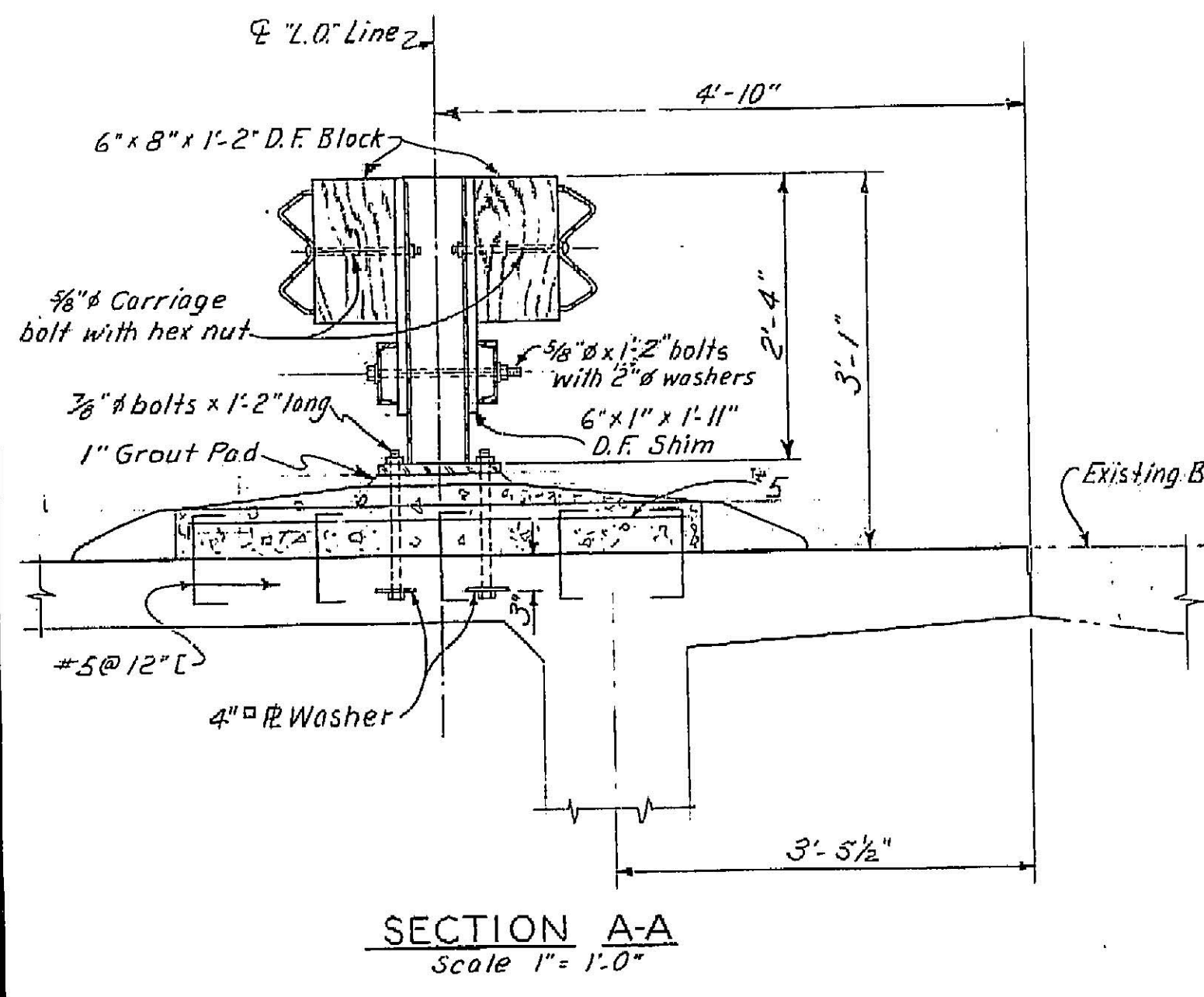
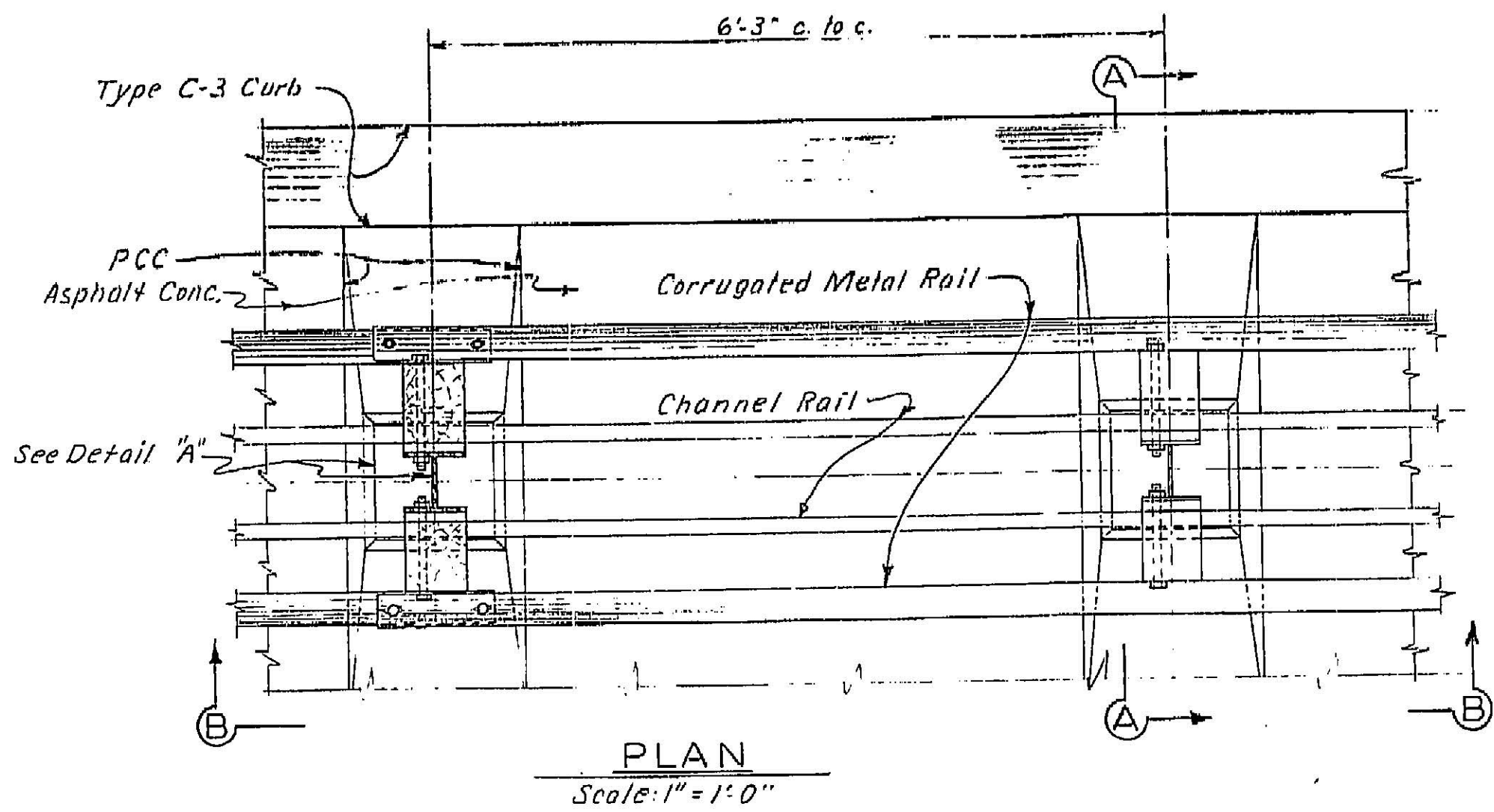
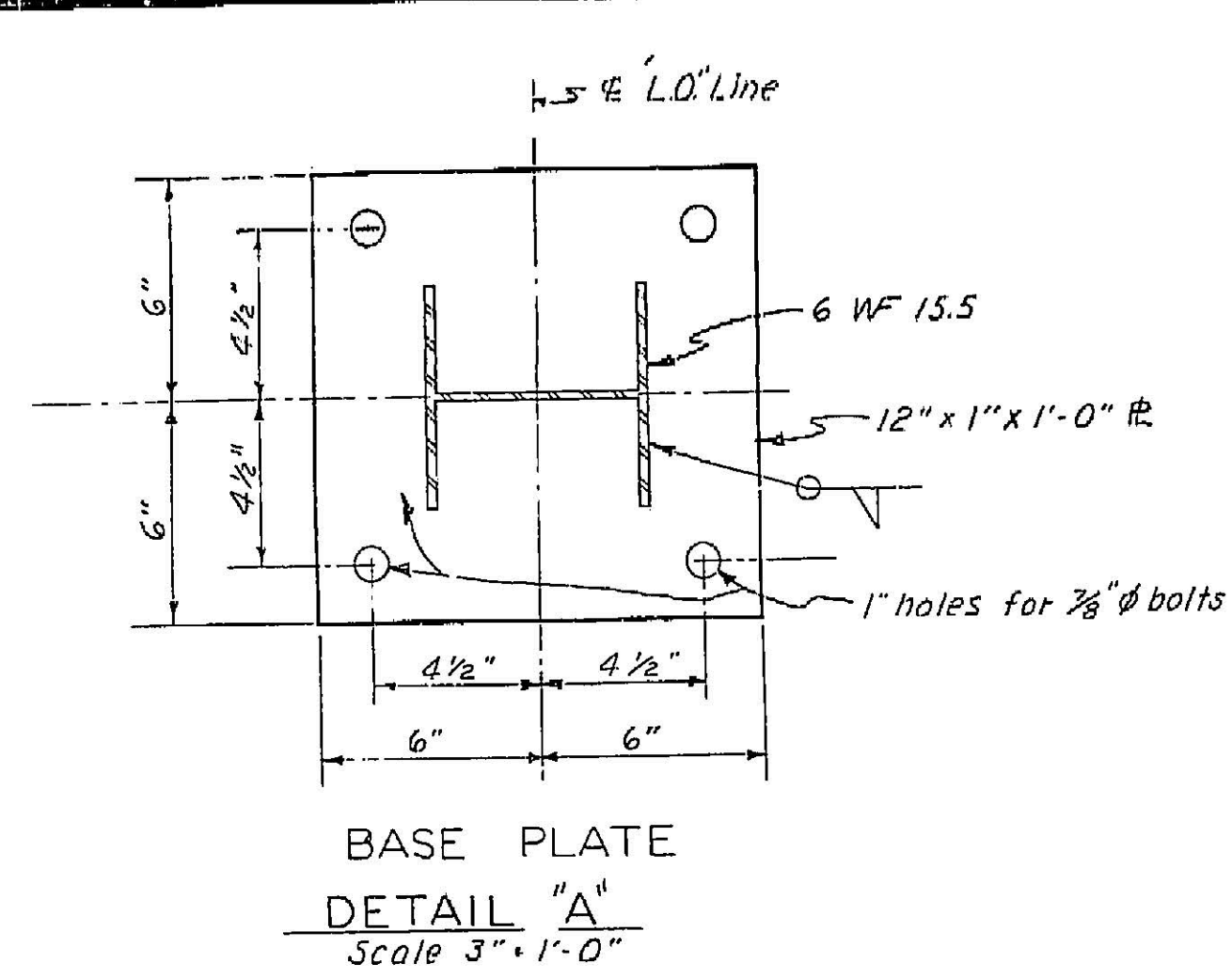
(A) & (B) GIRDERS
BOTTOM REINFORCEMENT
No Scale

Numbers at ends of bars indicate distance in feet from Σ of bent for top reinforcement or Σ span for bottom reinforcement.
Not more than one third of the reinforcement may be spliced in any 3' length. All splices of bars with more than 12 inches of concrete beneath shall be made with 35 diameter lap.

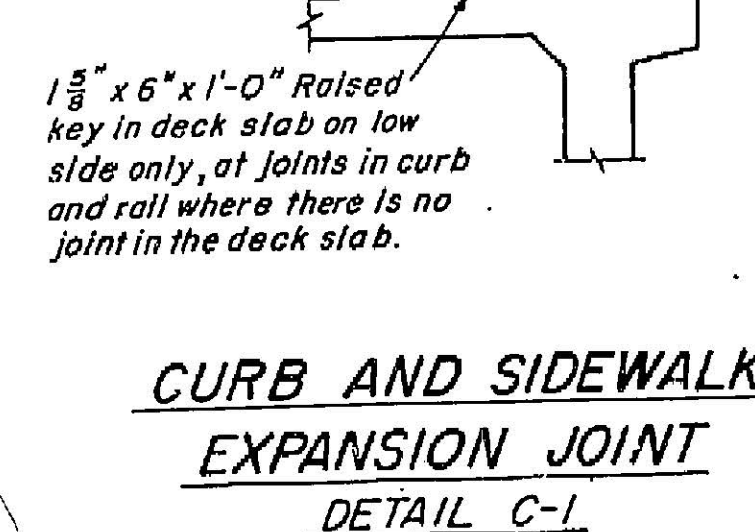
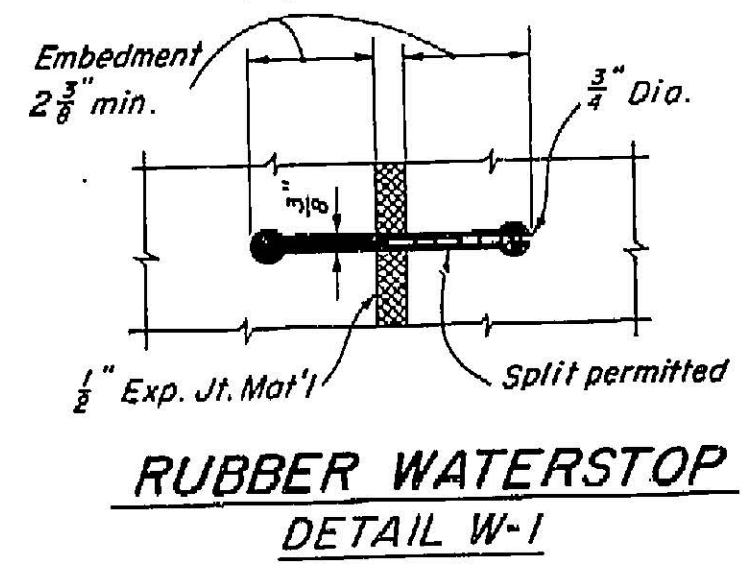
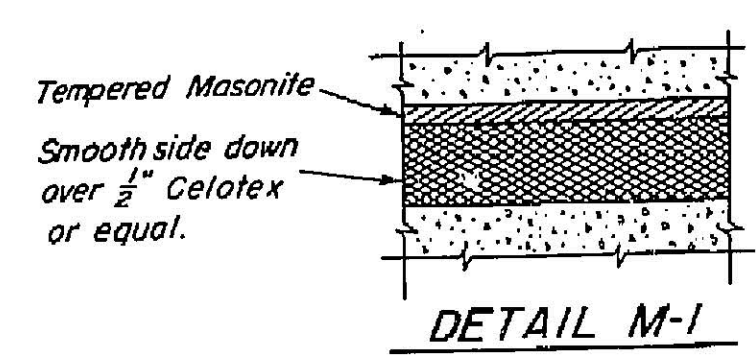
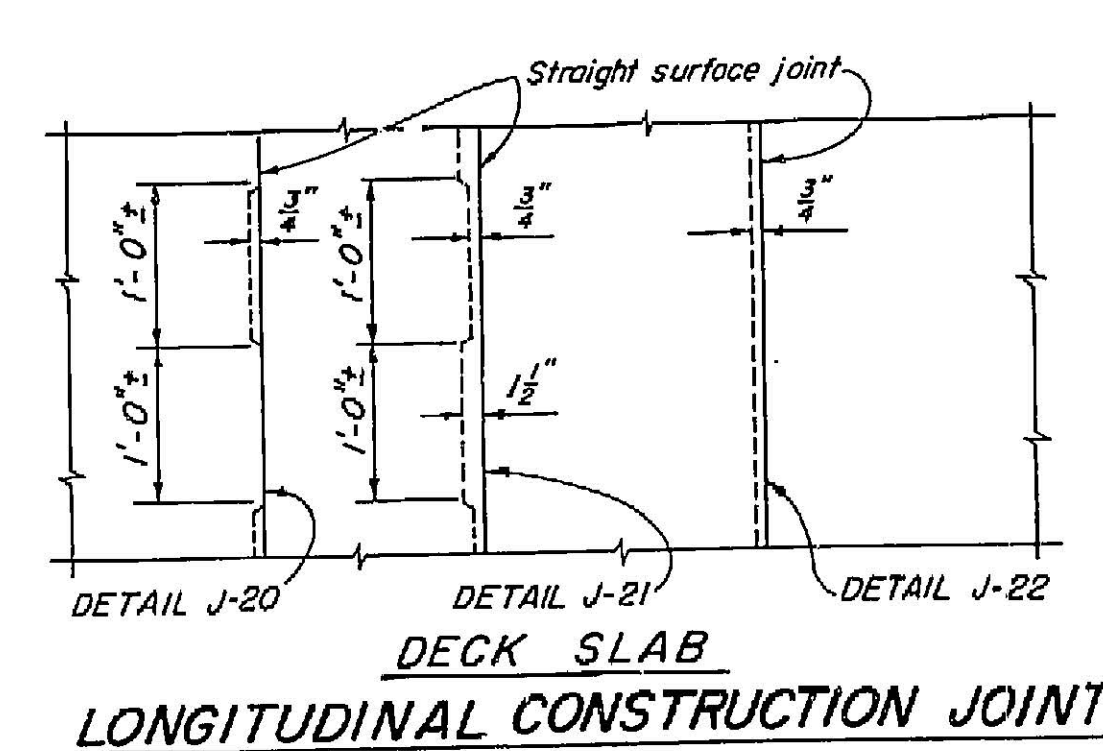
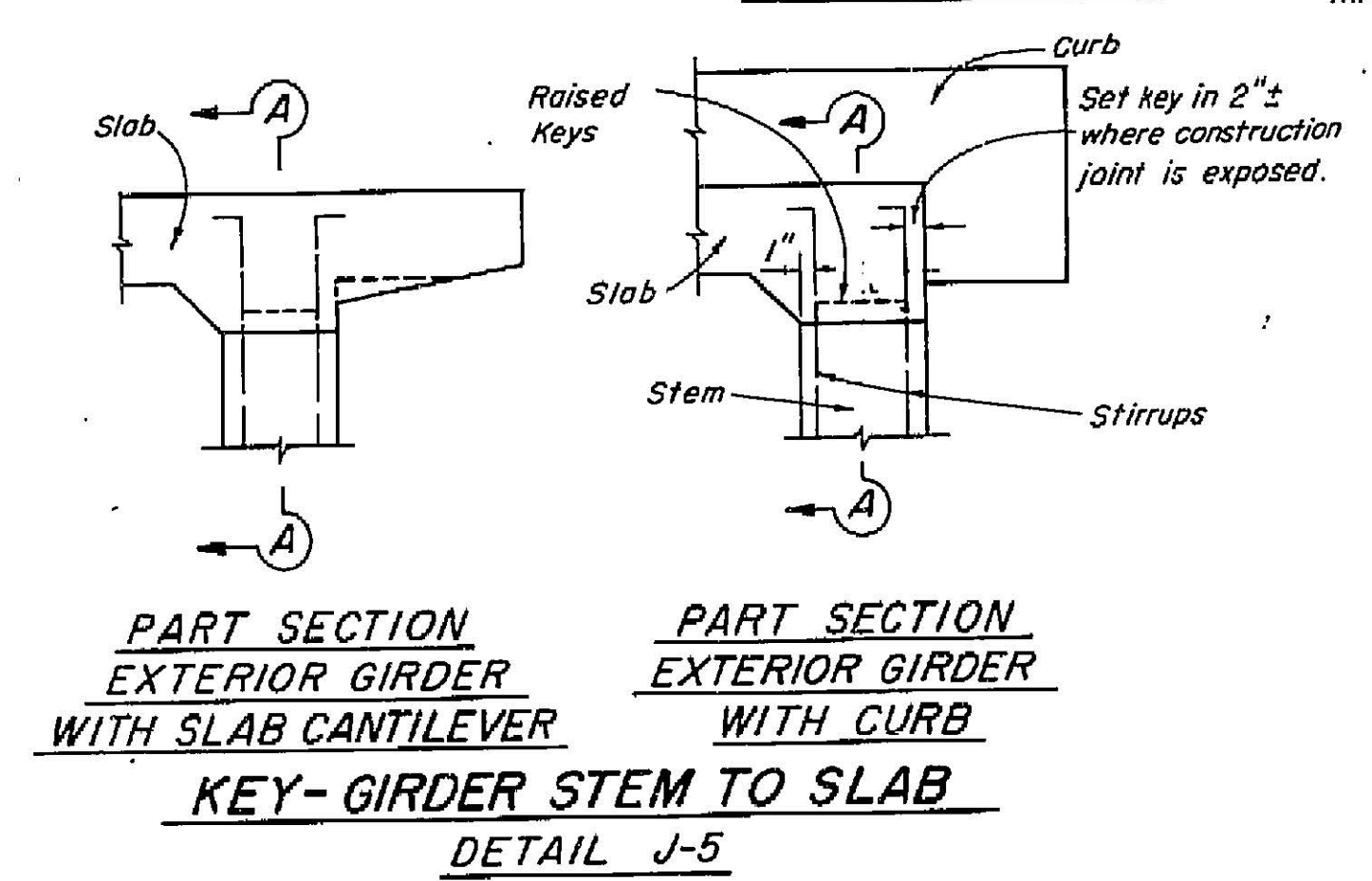
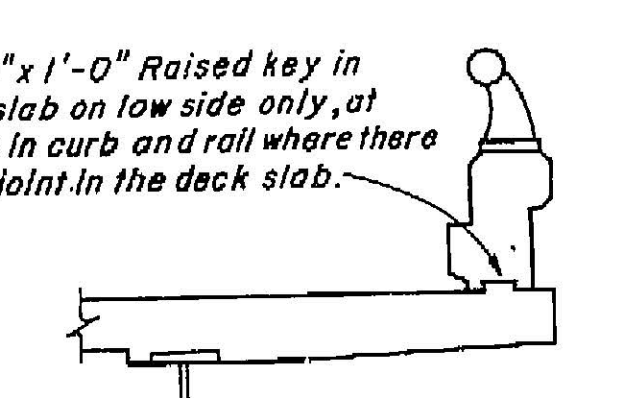
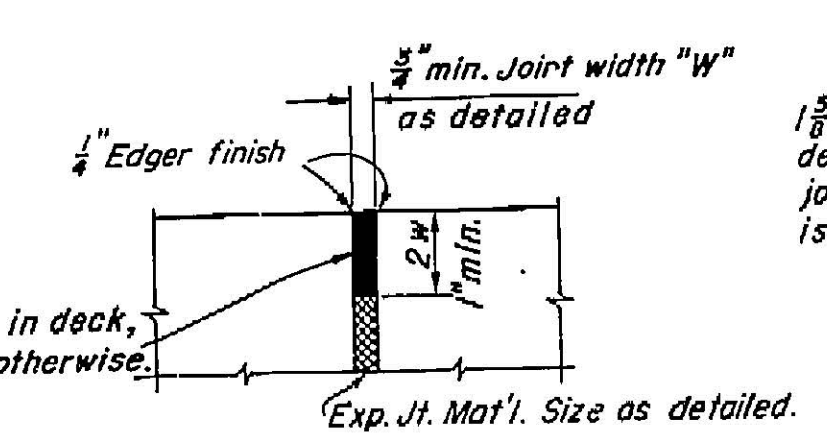
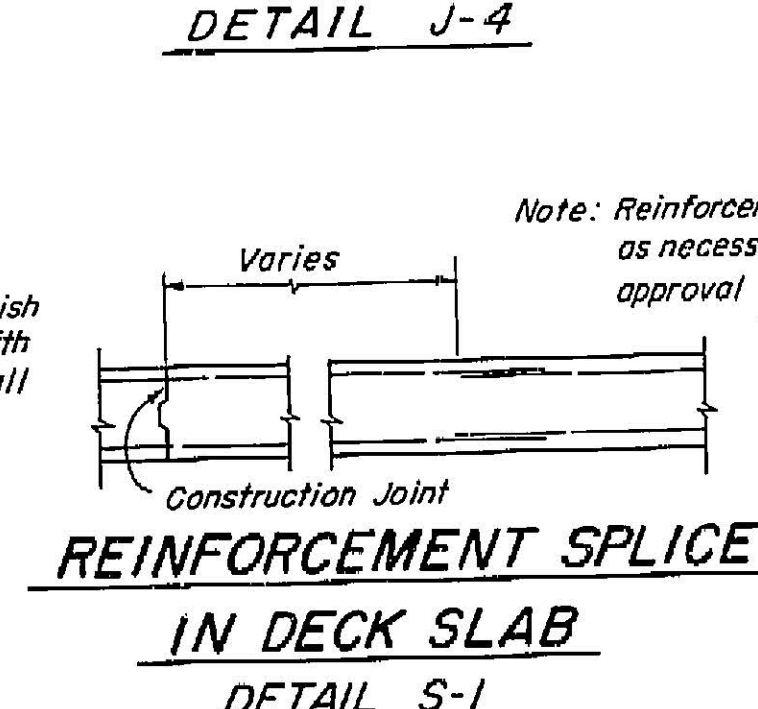
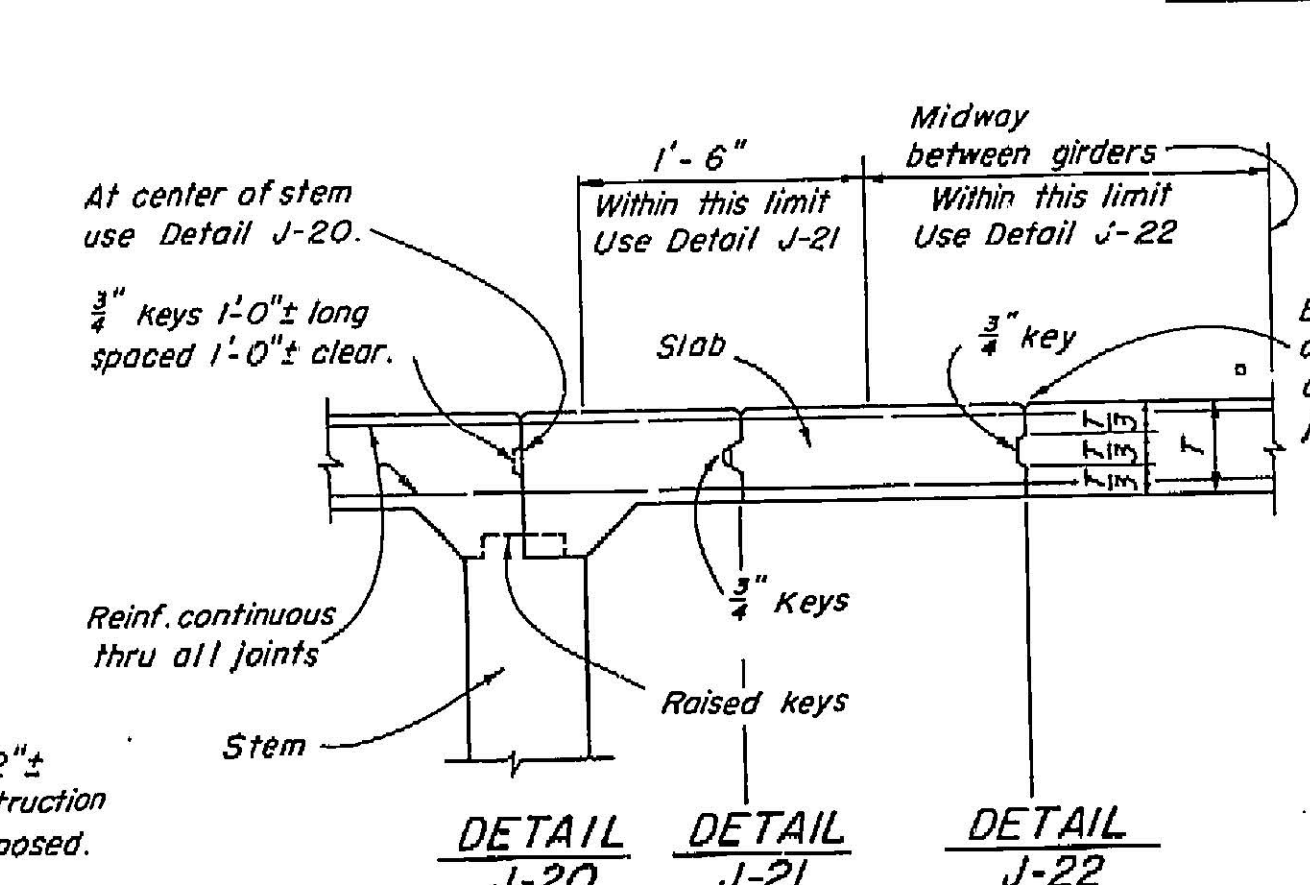
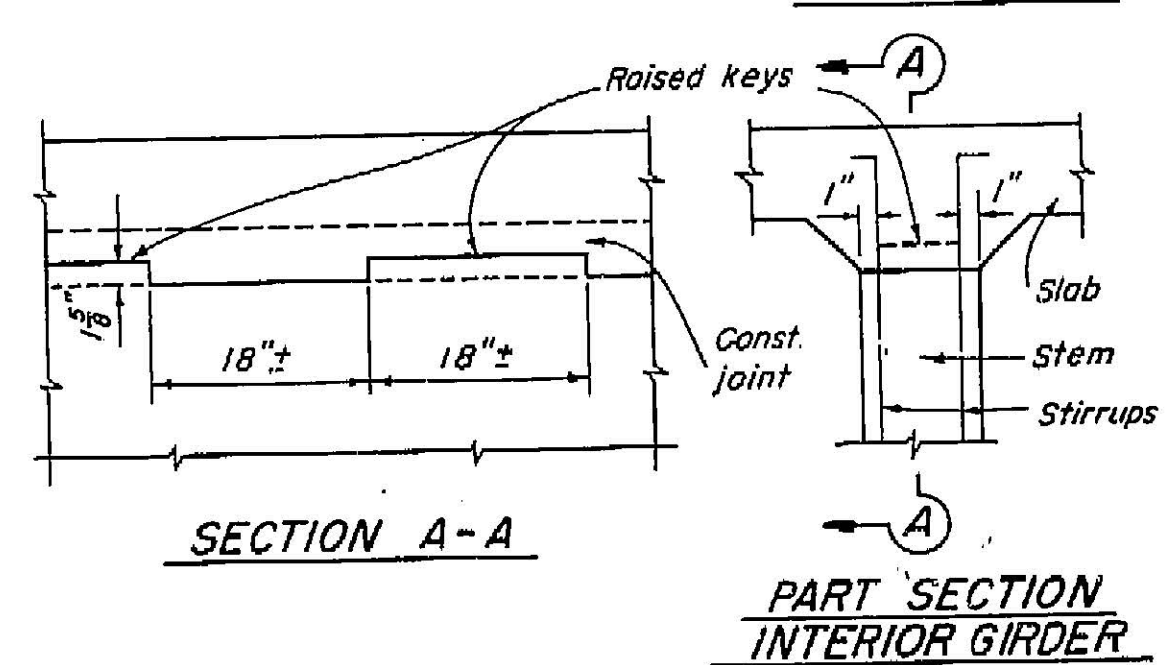
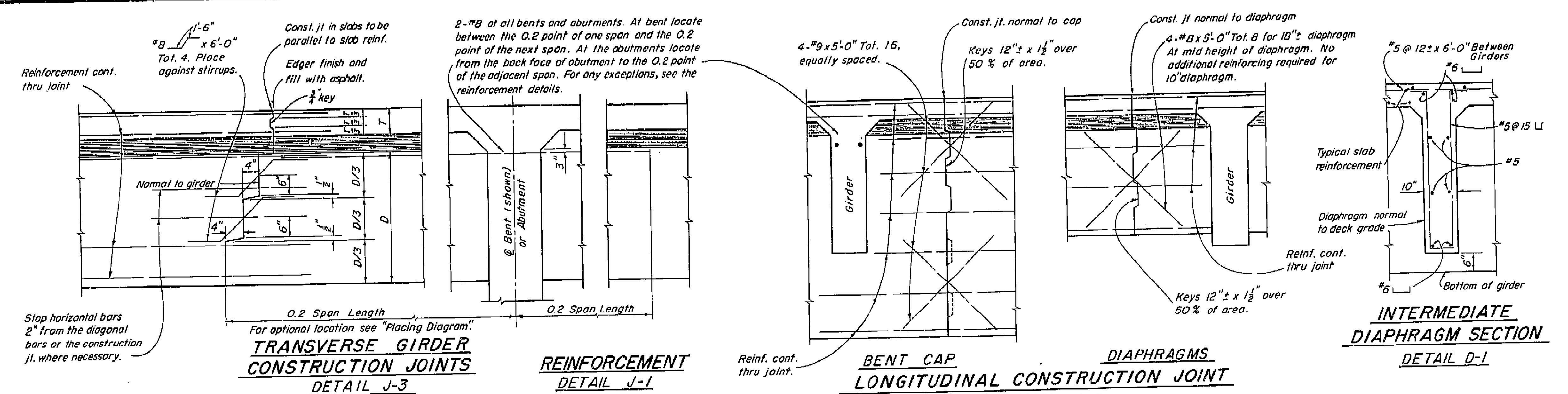


TYPICAL GIRDER
Scale: 3/4" = 1'-0"

206



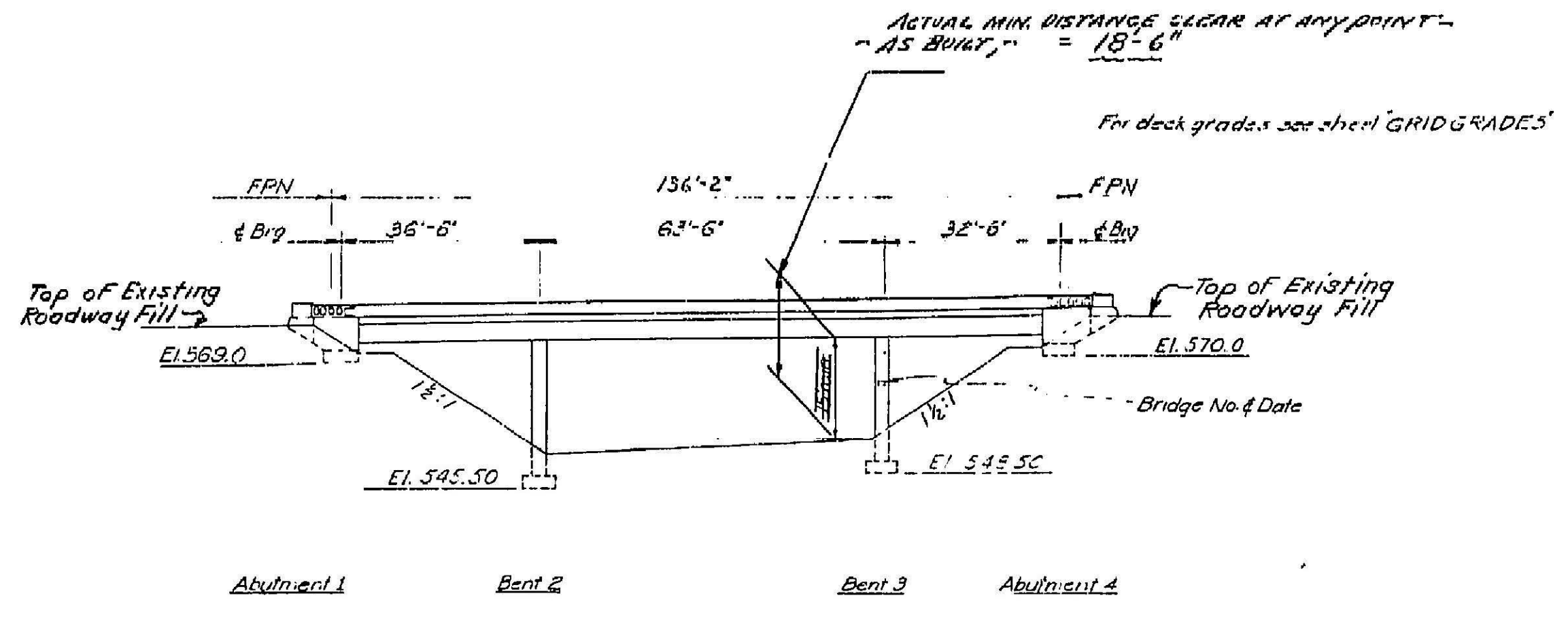
207



Note: Longitudinal construction joints in slab, if required, are to be located at edge of traffic lanes except as approved by the Engineer.

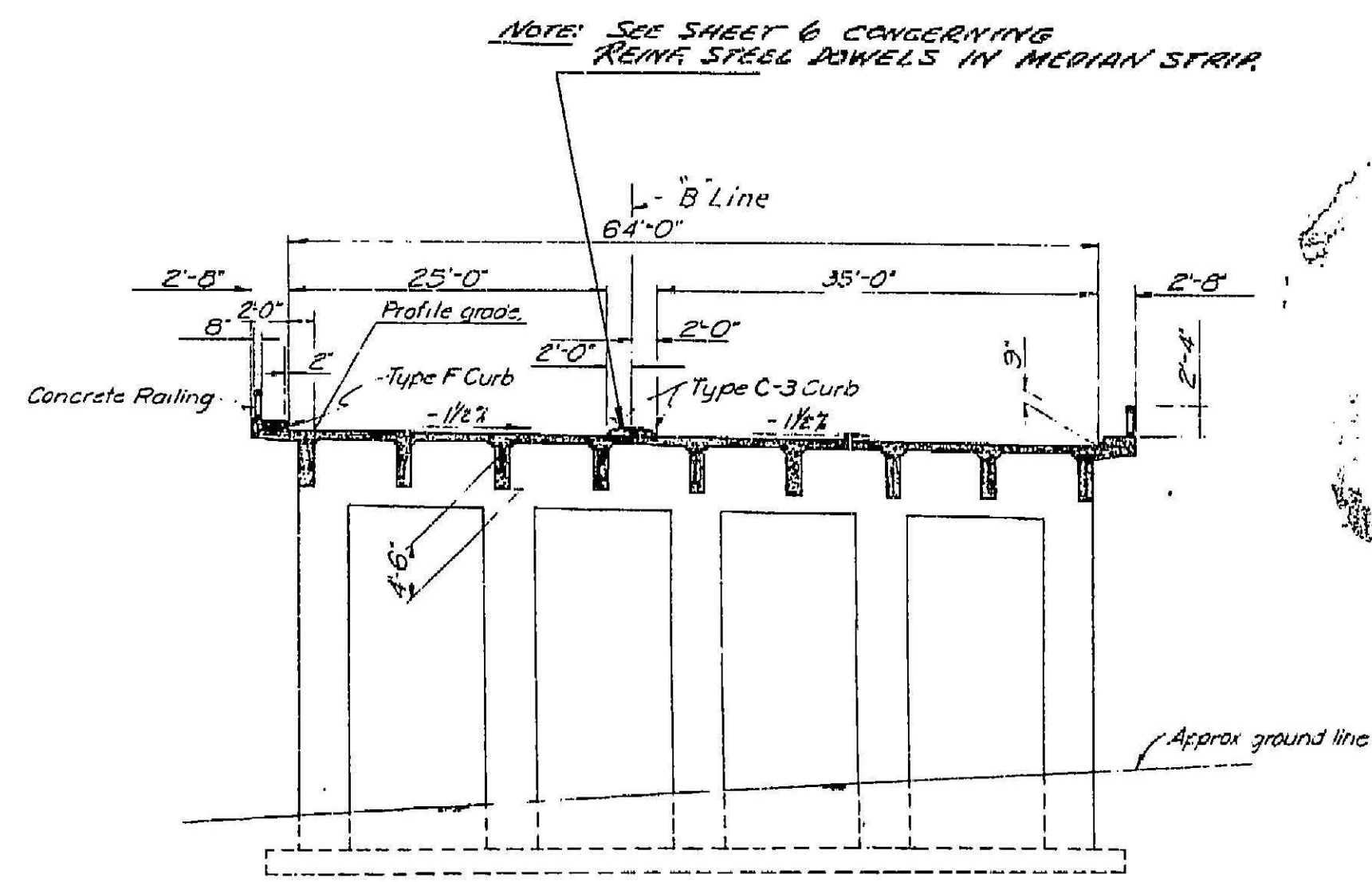
THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED 7-13-62, AS SUBMITTED BY RESIDENT ENGINEER E. D. ... FRACINGS CORRECTED BY ... DATE: 7-9-62

209



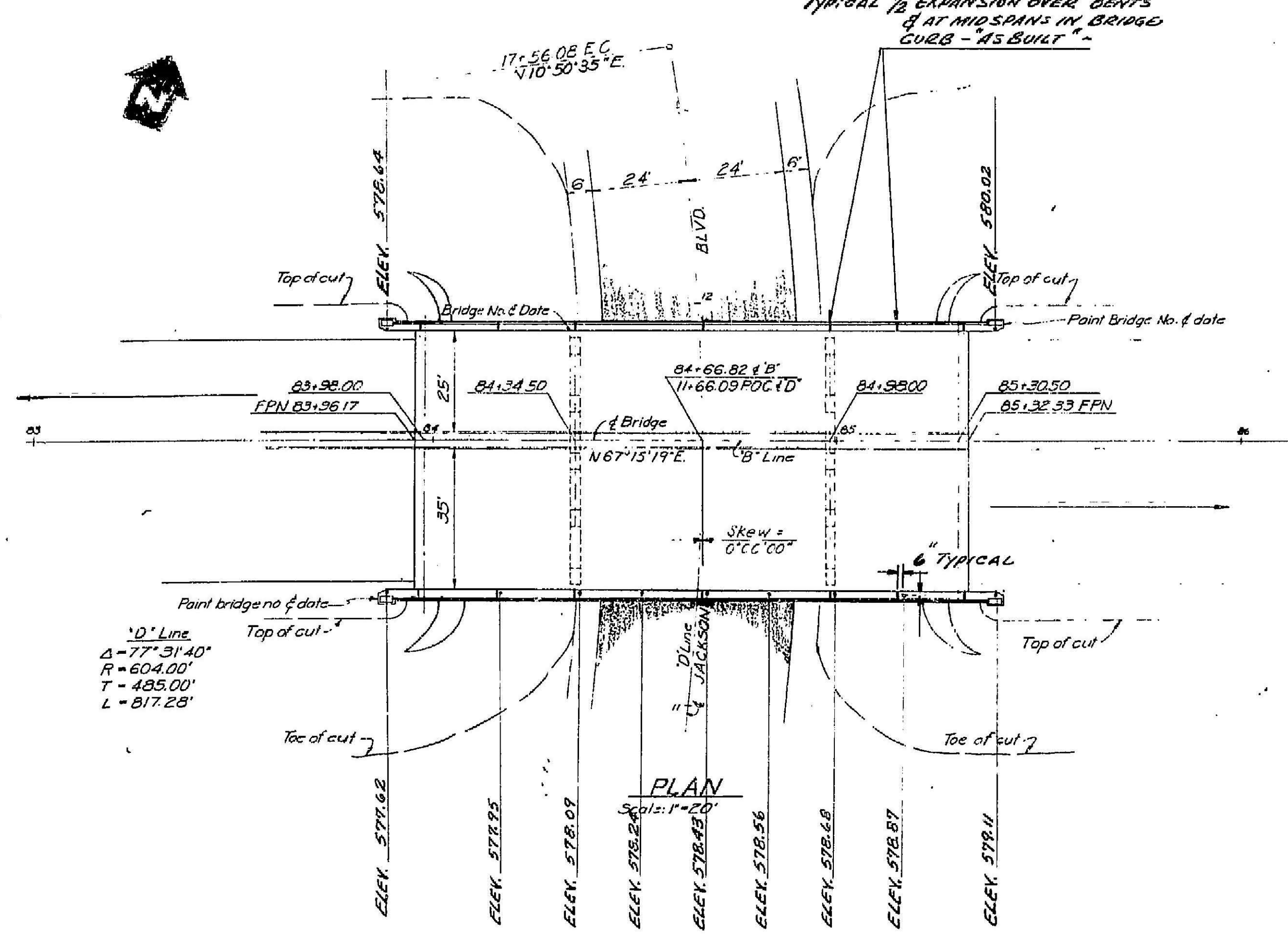
APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	300 C.Y.
STRUCTURE BACKFILL	220 C.Y.
CLASS A CONCRETE (BRIDGE) (7ND C.Y.)	LUMP SUM
CONCRETE RAILING	308 L.F.
BAR REINFORCING STEEL (BRIDGE) (145,000 LBS.)	LUMP SUM
MISCELLANEOUS IRON & STEEL	5,500 LBS.
4" ASBESTOS-CEMENT PIPE	80 L.F.



TYPICAL SECTION
Scale: 1"=10'

ELEVATION
Scale: 1"=20'



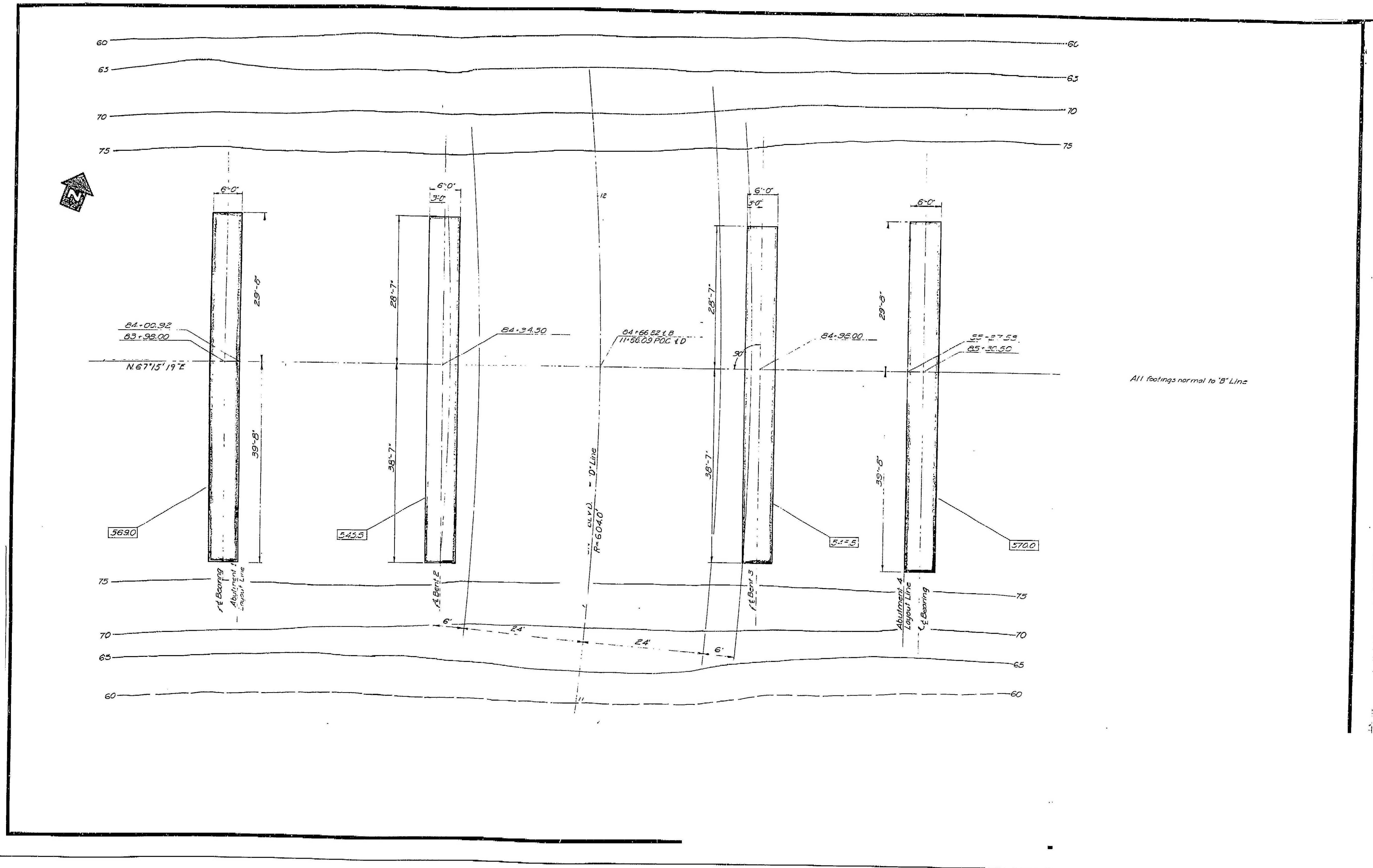
INDEX TO PLANS

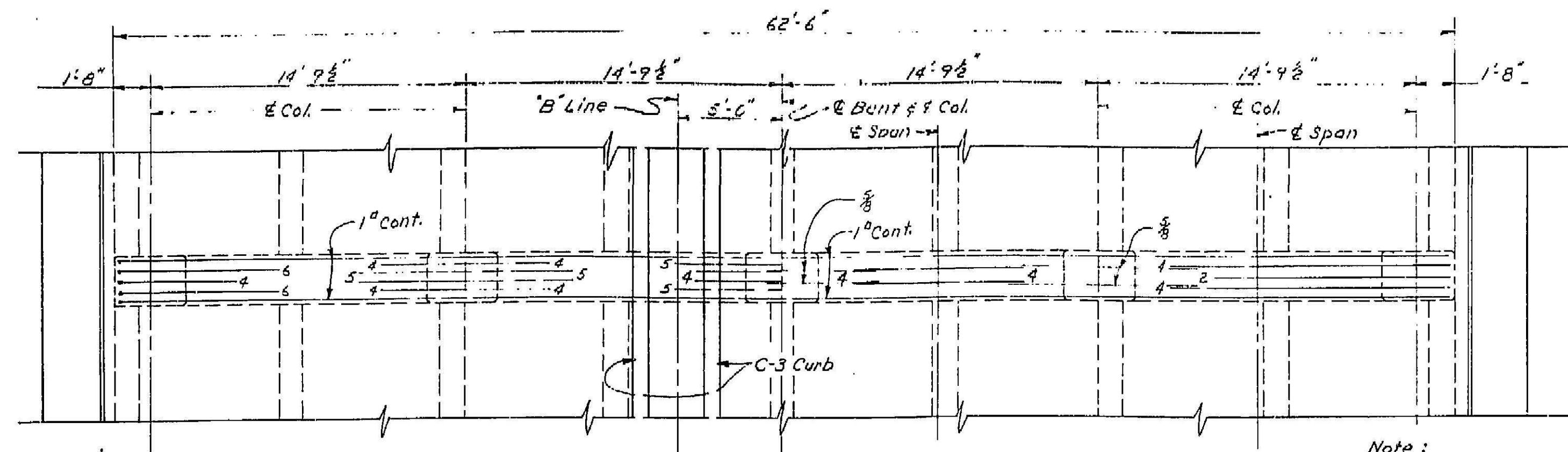
Sheet	Title
1	General Plan
2	Grid Grades
3	Foundation Plan
4	Abut. No. 1 & 4 - Layout & Details
5	Bents No. 2 & No. 3
6	Typical Section
7	Girder Layout
8	Girder Reinforcement
9	Misc. Details
10	Standard Details
11	Concrete Railing
12	Log of Test Borings

For "General Notes", see "Concrete Railing" sheet.

Live Loading H20-516-44

11/76



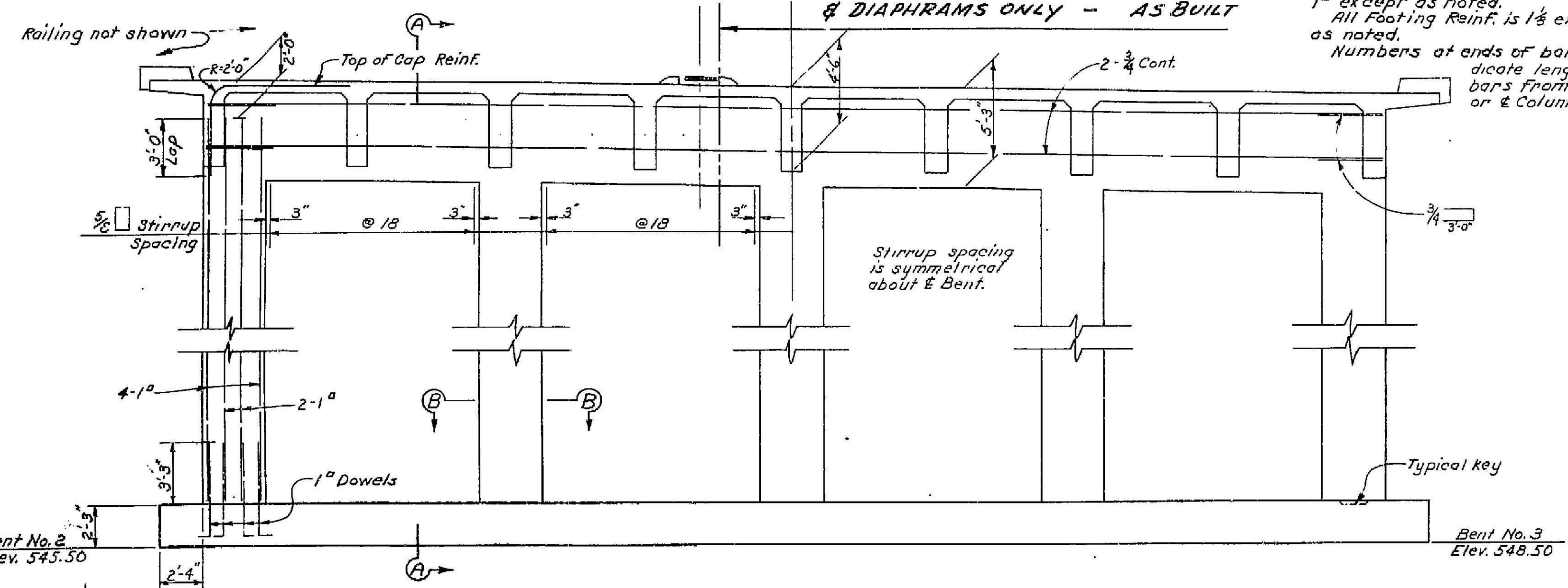


TOP REINFORCEMENT

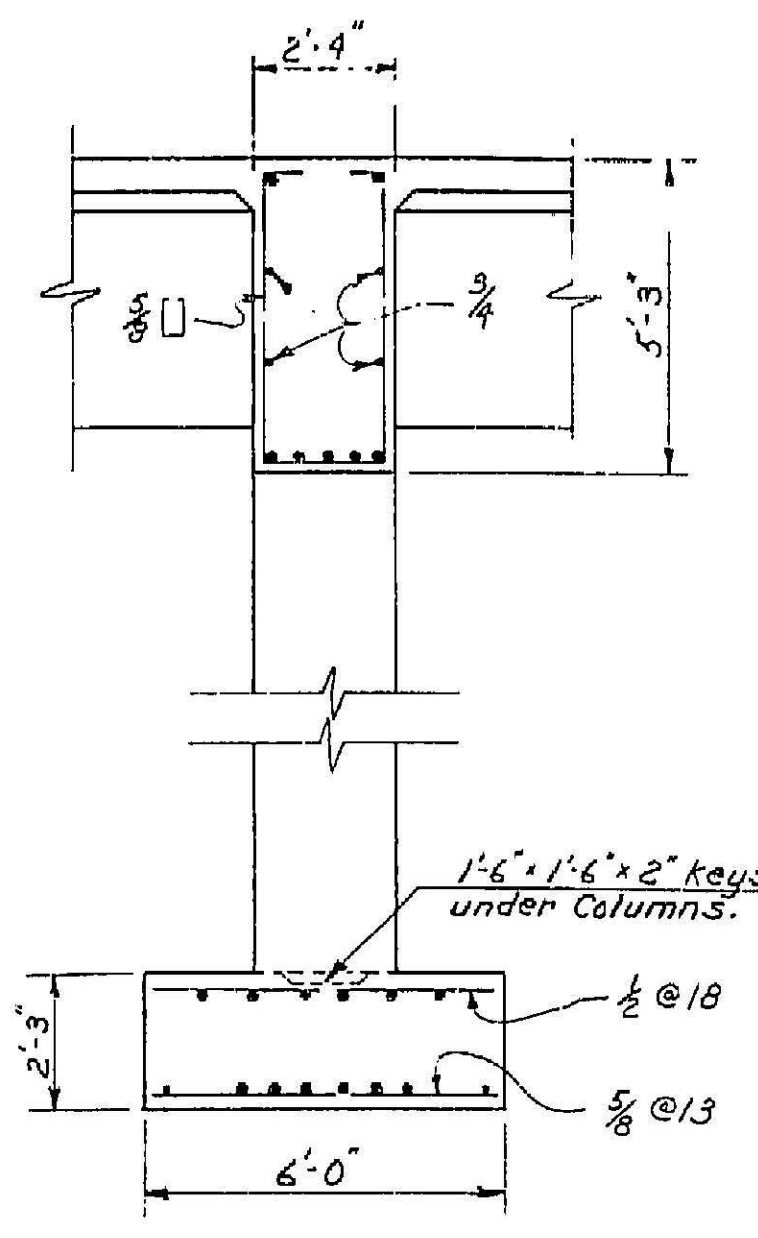
PLAN

BOTTOM REINFORCEMENT
 LINE OF LONGITUDINAL CONSTR.
 JOINT THROUGH BENT CAPS
 & DIAPHRAGMS ONLY - AS BUILT

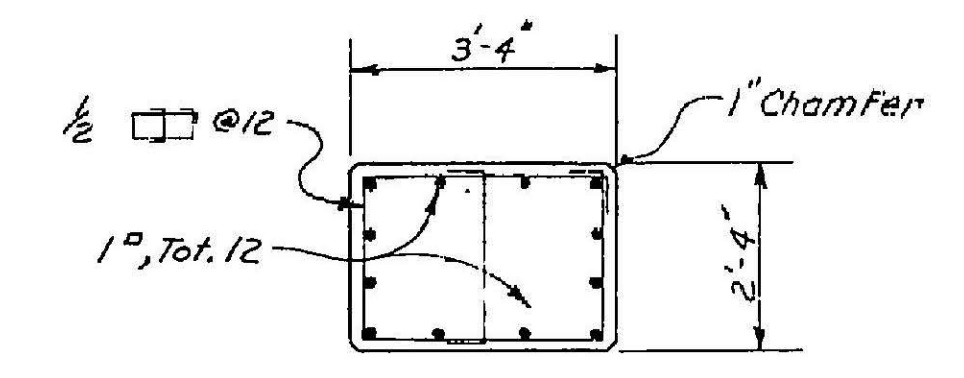
Note:
 Bents No. 2 & No. 3 are similar
 and symmetrical about the Bent
 except as shown.
 All Cap and Column Reinf. is
 1" except as noted.
 All Footing Reinf. is 1 1/2" except
 as noted.
 Numbers at ends of bars in-
 dicate length of
 bars from the Spans
 or Columns.



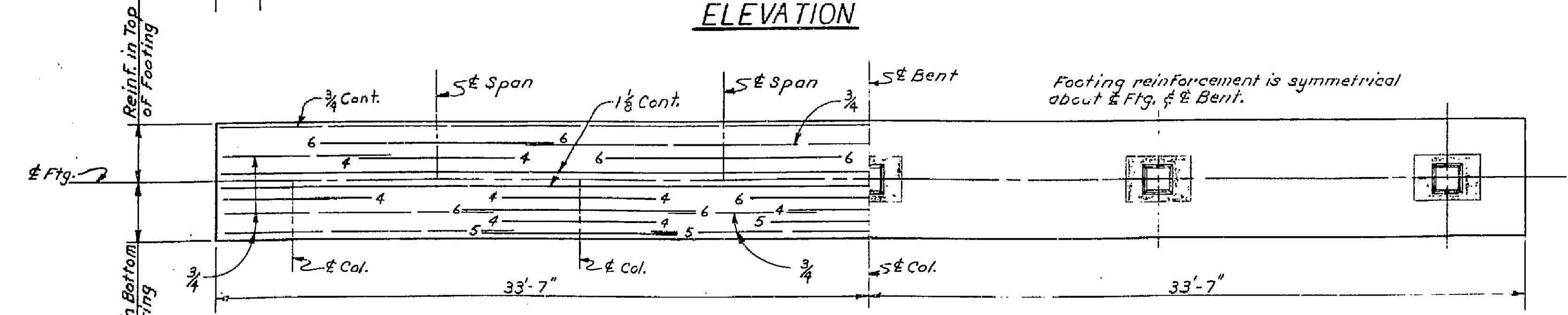
ELEVATION



SECTION A-A
 Scale: 3/8" = 1'-0"

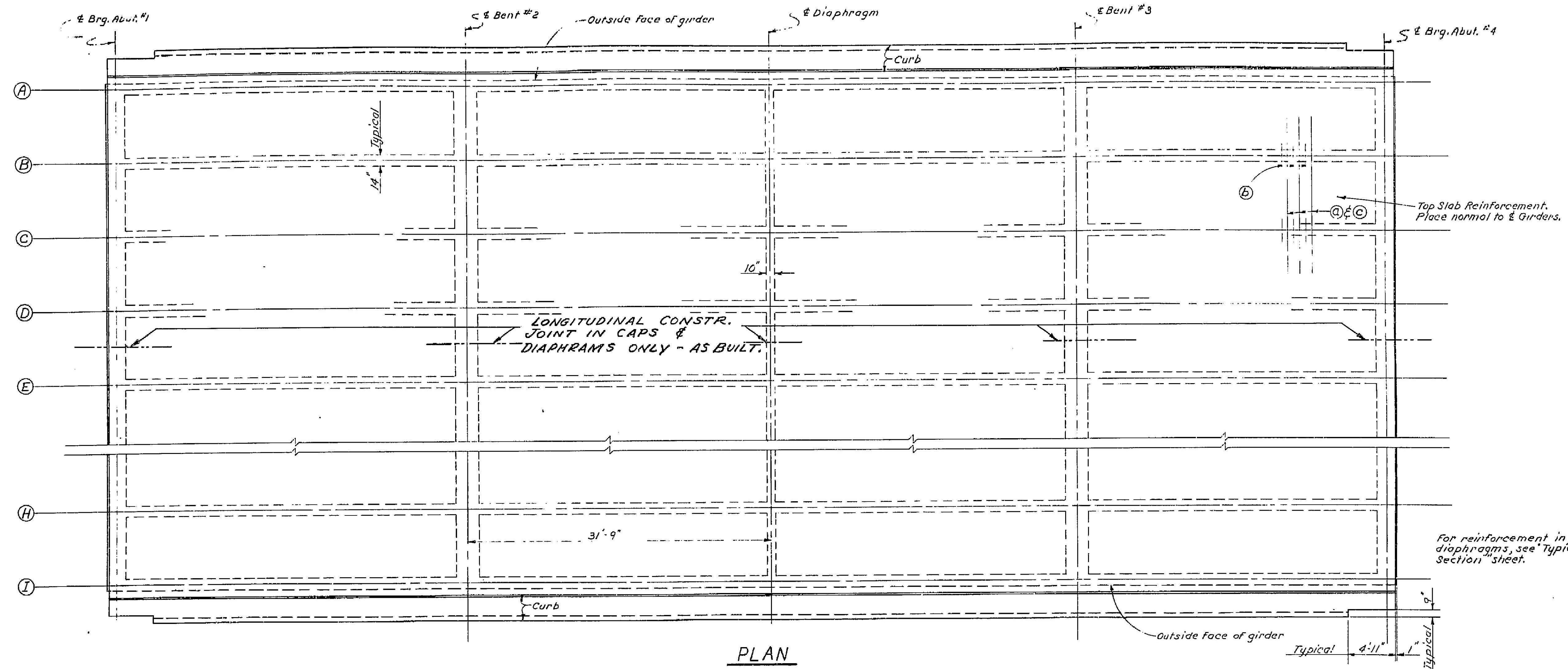


SECTION B-B
 Scale: 1/2" = 1'-0"

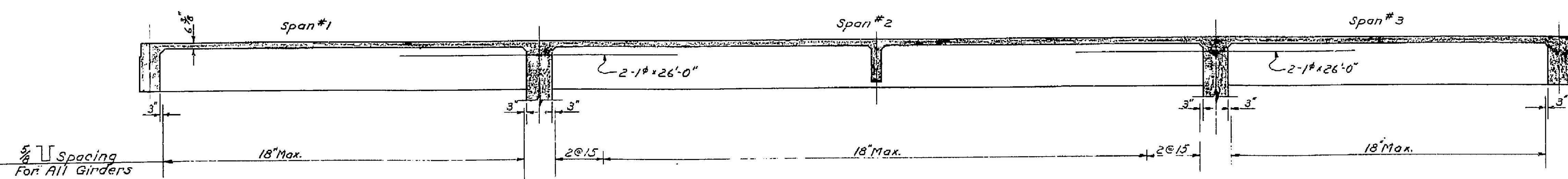


FOOTING PLAN

See 'Foundation Plan' sheet
 for Bent Ftg. Layout.

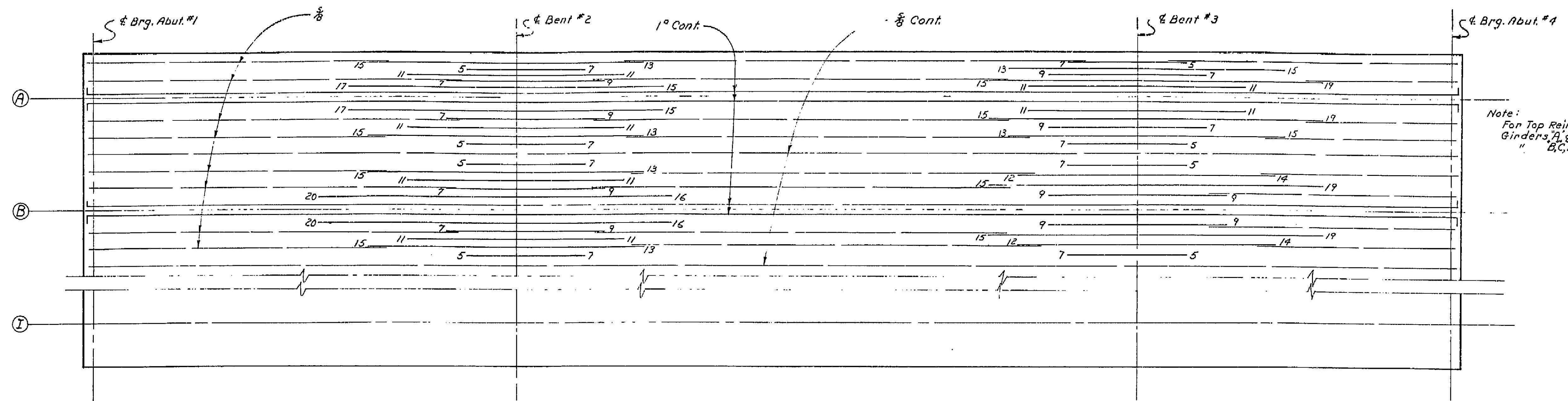


PLAN

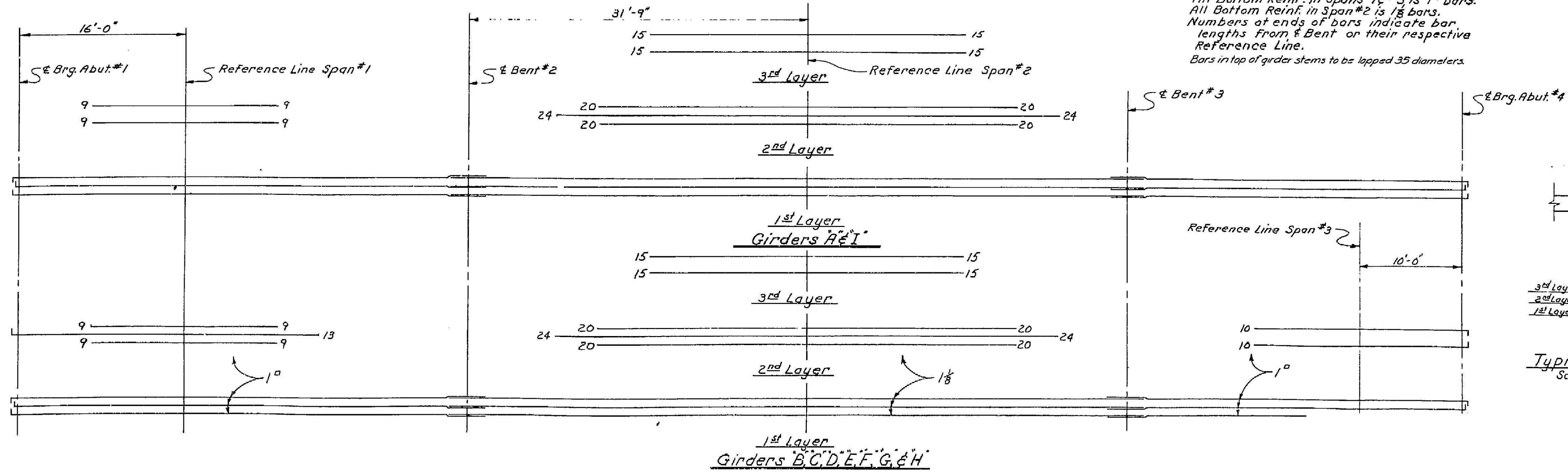


LONGITUDINAL SECTION

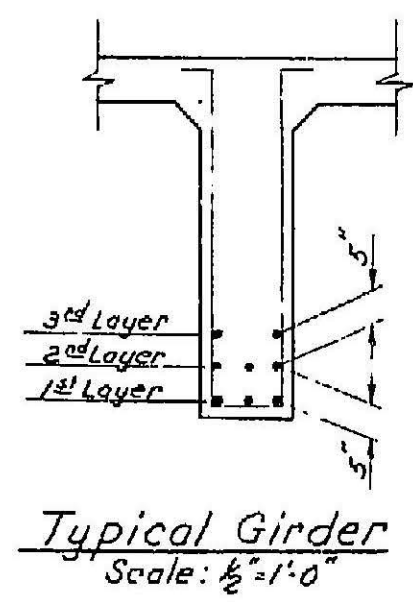
BRIDGE DEPARTMENT



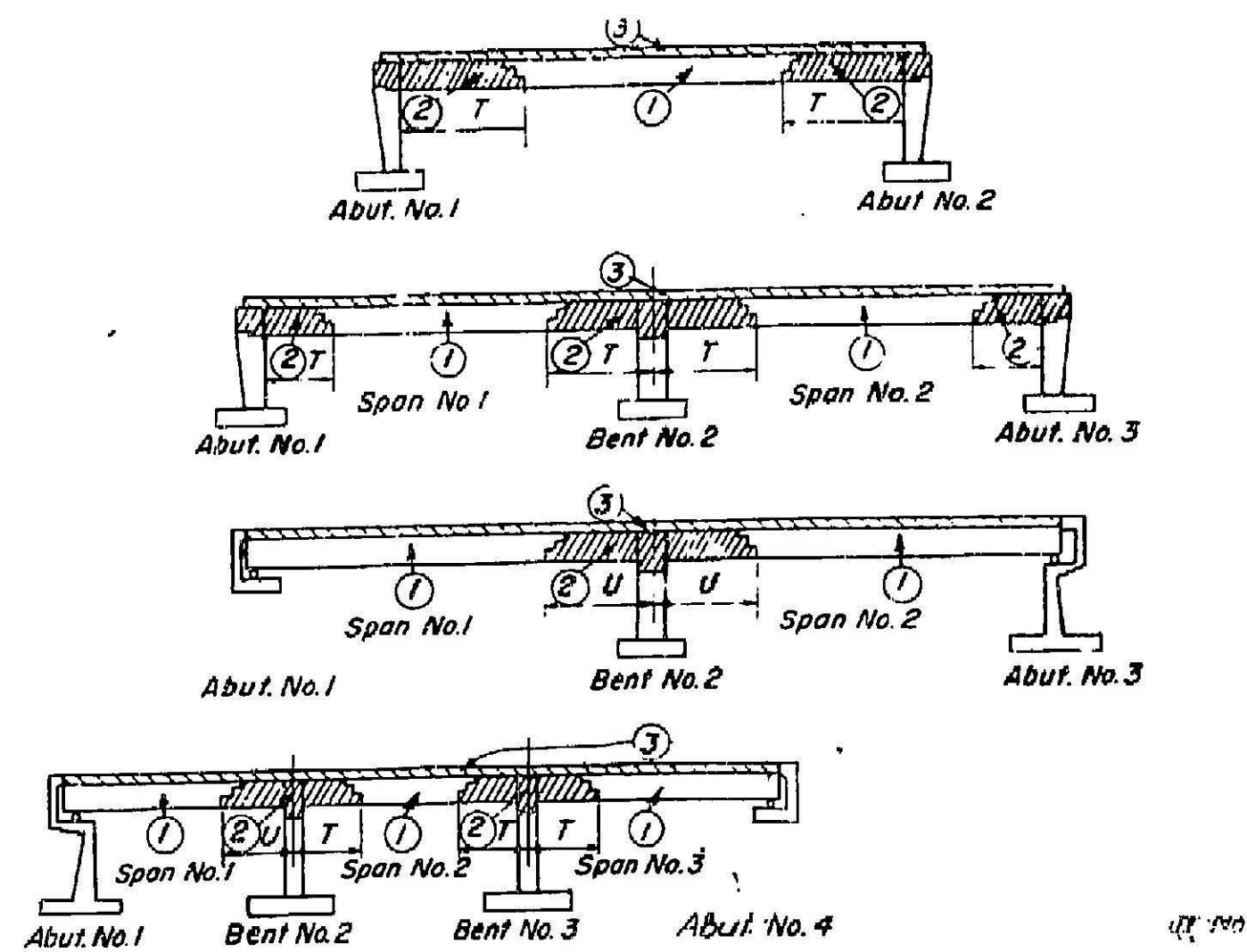
TOP REINFORCEMENT



BOTTOM REINFORCEMENT

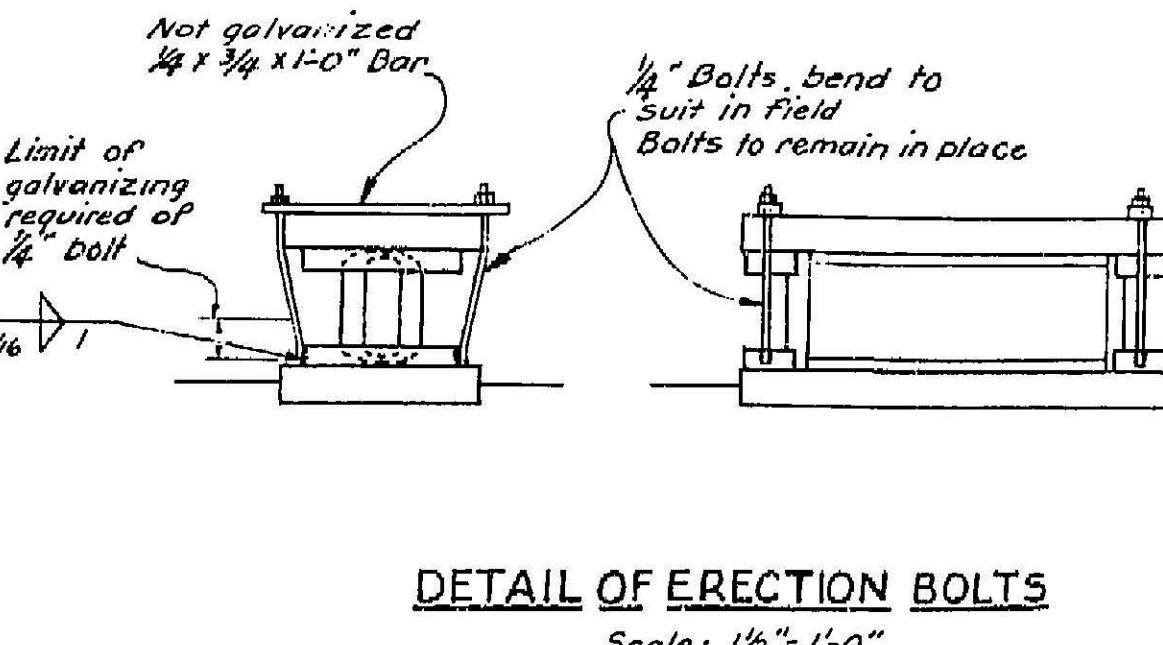
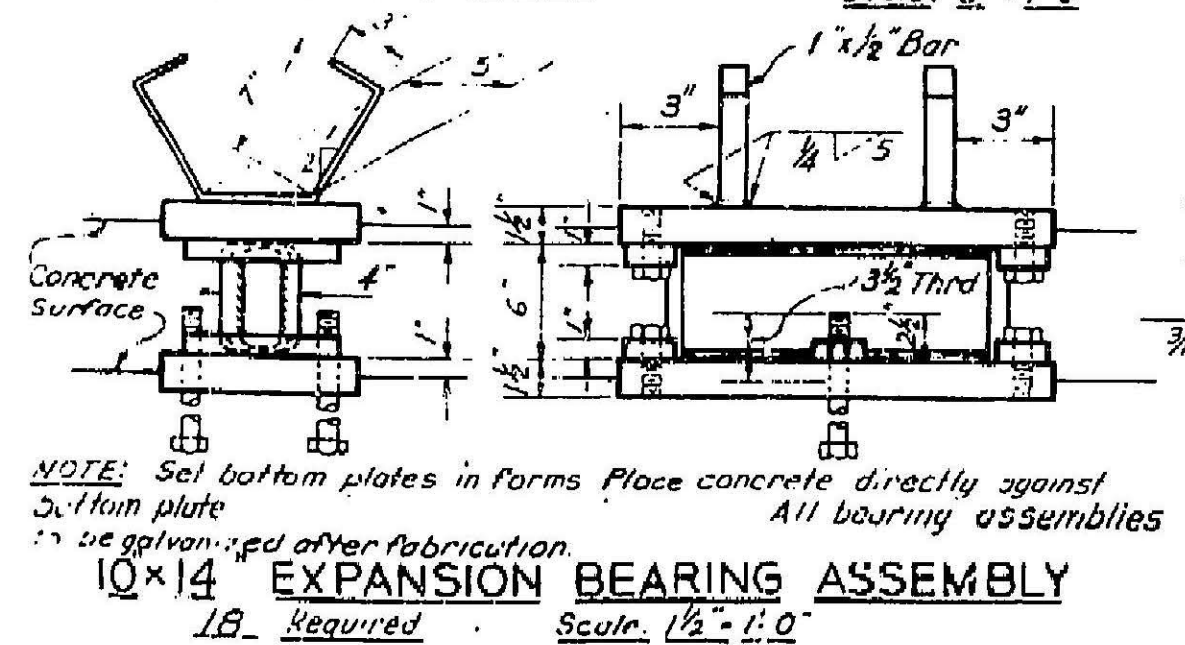
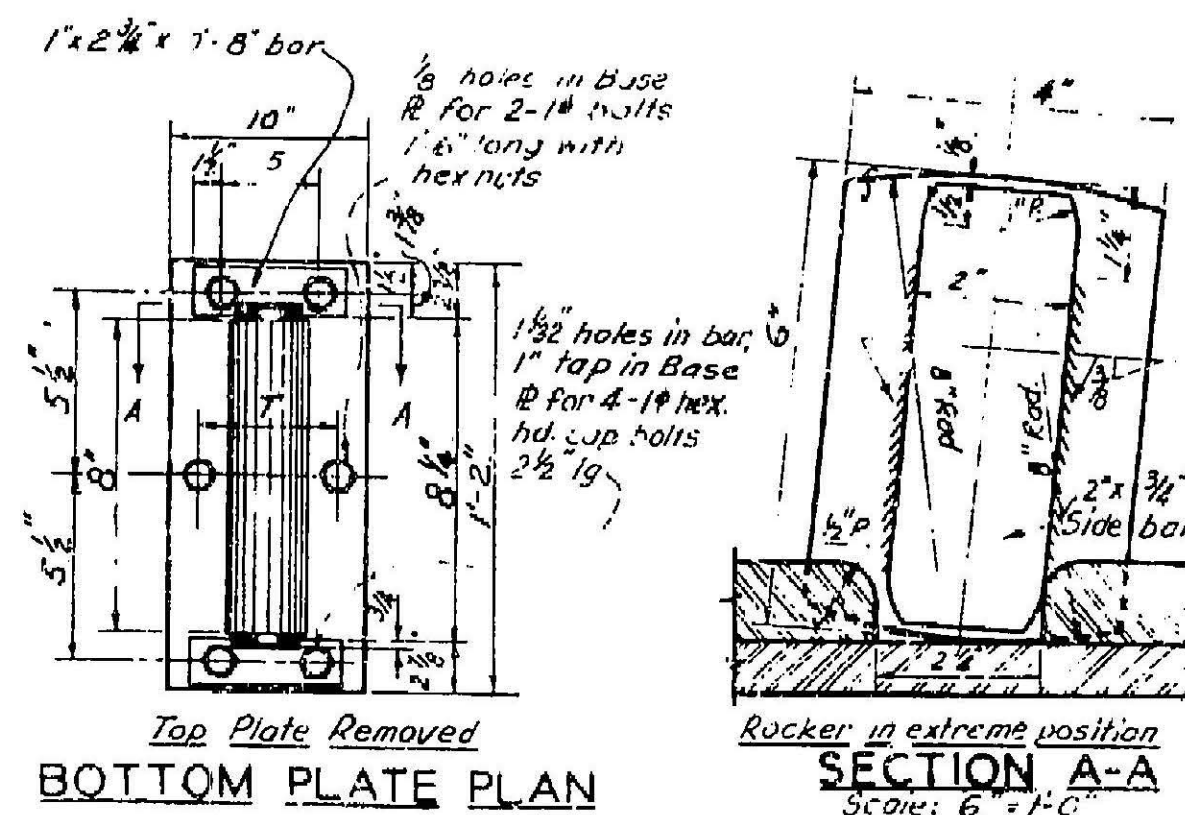


Typical Girder
Scale: 1/2" = 1'-0"



TEE BEAM SUPERSTRUCTURE PLACING DIAGRAM

Numbers (1) and (2) indicate sequence of placing girder stem concrete. (2) may be placed with (1) when approved, provided both adjoining (1) sections are placed.
 Top slab concrete (3) may be placed separately with construction joints as desired or with (1) and (2) except no construction joints in the area "T" or "U".
 $T = 1/5$ span length
 $U = 1/4$ span length
 Longitudinal construction joints may be used when approved, provided falsework or shoring on each side of the construction joints support the loads.
 Contractor shall submit falsework plans and a superstructure placing diagram for approval by the Engineer.



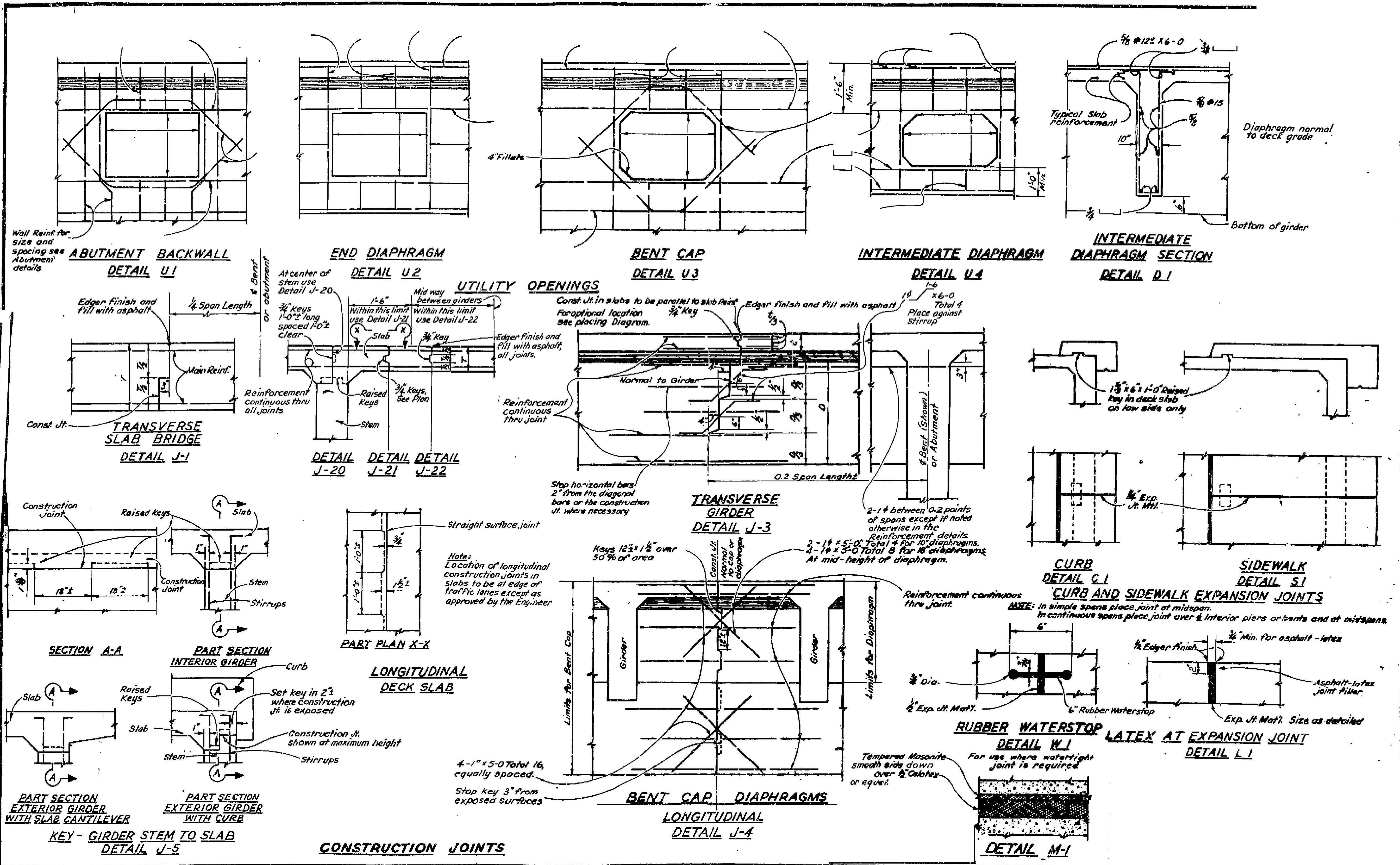
For "GENERAL NOTES" see sheet "CONCRETE RAILING"

GENERAL NOTES

- Specifications: Design: A.A.S.H.O. dated 1953 with subsequent revisions, and Bridge Department Supplement dated 1953.
- Construction: Standard Specifications, Division of Highways, dated _____ and the Special Provisions.
- Live Loading: H20-S16-44
- Unit Stresses: Reinforced Concrete: $f_s = 20,000$ p.s.i., $f_c = 1250$ p.s.i., $n = 10$

Pile Loading: 45 tons. Type: 100F42 steel

Reinforcement: Embedment is clear to outside of bar and to 2" to main reinforcement, except as noted.
 Backing for hooks is four diameters, except as noted.
 Bar areas are based on rounds for less than 1" and squares for over 1".
 Where reinforcing bars are spliced they shall have a 20 diameter lap unless otherwise called for on the plans.



Wall Reinf. for size and spacing see Abutment details
ABUTMENT BACKWALL
DETAIL U-1

END DIAPHRAGM
DETAIL U-2

BENT CAP
DETAIL U-3

INTERMEDIATE DIAPHRAGM
DETAIL U-4

INTERMEDIATE DIAPHRAGM SECTION
DETAIL D-1

Edger finish and fill with asphalt
 1/4 Span Length
 Main Reinf.
 Reinforcement continuous thru all joints
 Const. Jt.
TRANSVERSE SLAB BRIDGE
DETAIL J-1

At center of stem use Detail J-20
 Mid way between girders
 Within this limit use Detail J-21
 Within this limit use Detail J-22
 3/4" Keys
 1'-0" long spaced 1'-0" clear
 Slab
 3/4" Key
 Edger finish and fill with asphalt, all joints.
 Raised Keys
 3/4" Keys. See Plan
 Stem
UTILITY OPENINGS
 Const. Jt. in slabs to be parallel to slab Reinf.
 For optional location see placing Diagram.
 Edger finish and fill with asphalt
 1'-6" Total 4 Place against stirrup
DETAIL J-20
DETAIL J-21
DETAIL J-22

Stop horizontal bars 2" from the diagonal bars or the construction jt. where necessary
 Normal to Girder
 Reinforcement continuous thru joint
 0.2 Span Length
TRANSVERSE GIRDER
DETAIL J-3

1'-6" Total 4 Place against stirrup
 1 3/8" x 6" x 1'-0" Raised key in deck slab on low side only
 1/2" Exp. Jt. Mat'l.
CURB AND SIDEWALK EXPANSION JOINTS
DETAIL C-1
DETAIL S-1

Construction Joint
 Raised Keys
 Slab
 Construction Joint
 Stem
 Stirrups
SECTION A-A

Straight surface joint
 Note: Location of longitudinal construction joints in slabs to be at edge of traffic lanes except as approved by the Engineer
PART PLAN X-X

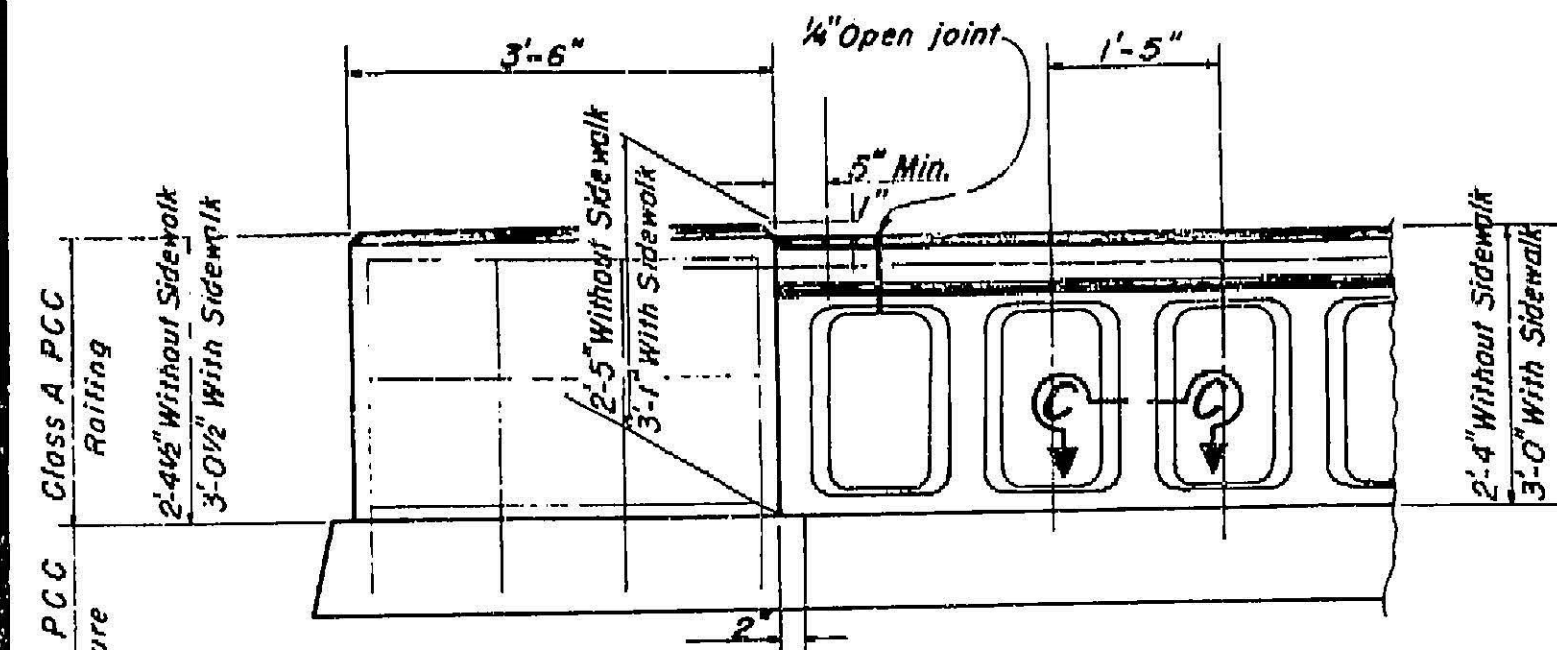
Keys 12" x 1 1/2" over 50% of area
 Const. Jt. Normal to cap or diaphragm
 2-1" x 5'-0" Total 4 for 10' diaphragms.
 4-1" x 5'-0" Total 8 for 18' diaphragms.
 At mid-height of diaphragm.
 Limits for Bent Cap
 Limits for Diaphragm
BENT CAP DIAPHRAGMS
LONGITUDINAL DETAIL J-4

Reinforcement continuous thru joint.
 ASSE: in simple spans place joint at midspan. In continuous spans place joint over interior piers or bents and at midspans.
 3/4" Dia.
 1/2" Exp. Jt. Mat'l.
 6" Rubber Waterstop
 1/2" Edger finish
 3/4" Min. for asphalt-latex
 Asphalt-latex joint filler
 Exp. Jt. Mat'l. Size as detailed
RUBBER WATERSTOP LATEX AT EXPANSION JOINT
DETAIL W-1
DETAIL L-1

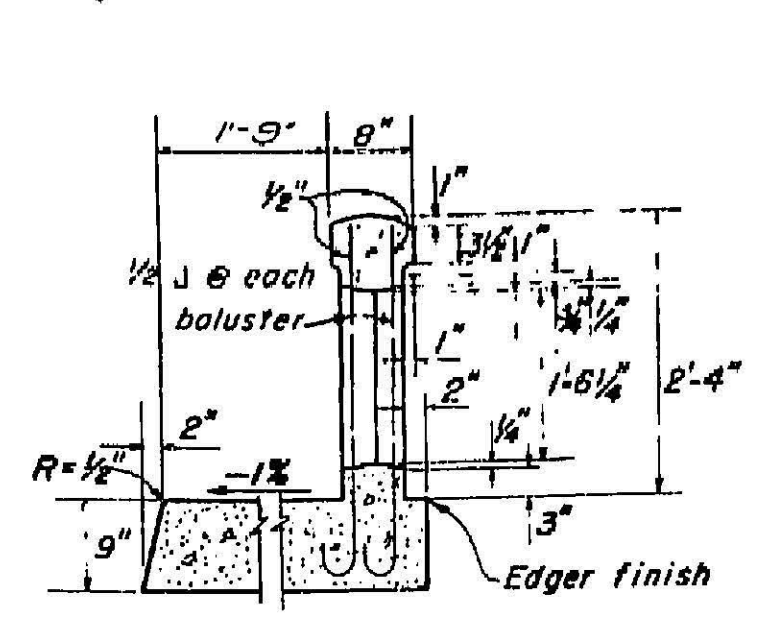
Slab
 Raised Keys
 Slab
 Stem
 Stirrups
PART SECTION INTERIOR GIRDER
PART SECTION EXTERIOR GIRDER WITH CURB
KEY - GIRDER STEM TO SLAB
DETAIL J-5

Set key in 2" where construction jt. is exposed
 Construction jt. shown at maximum height
LONGITUDINAL DECK SLAB
CONSTRUCTION JOINTS

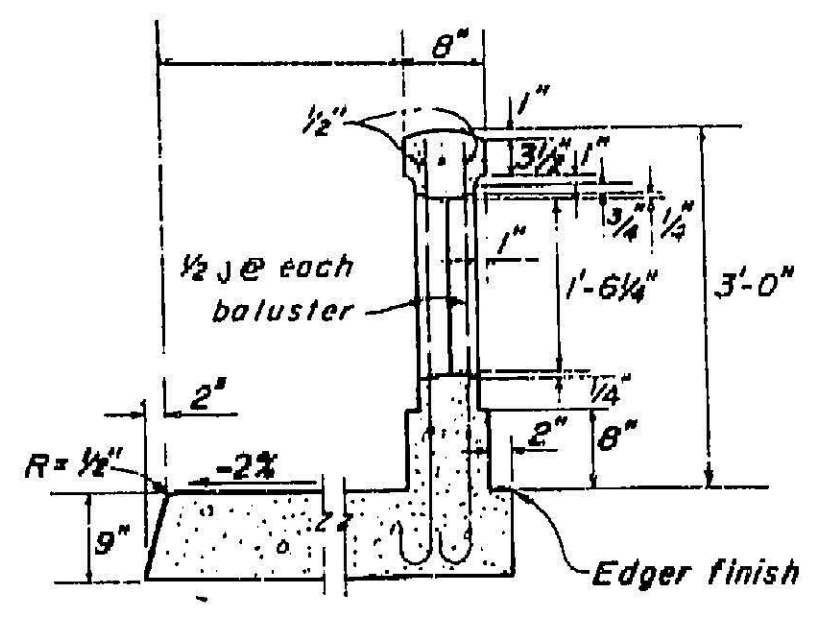
Tempered Masonite smooth side down over 1/2" Colotex or equal.
DETAIL M-1



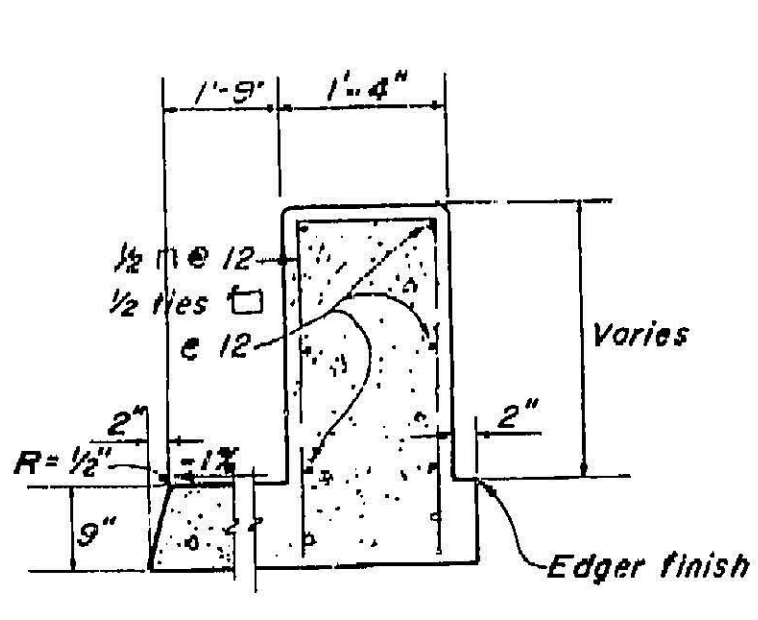
OUTSIDE ELEVATION
Scale 3/4"=1'-0"



SECTION B-B WITHOUT SIDEWALK
Scale 3/4"=1'-0"



SECTION B-B WITH SIDEWALK
Scale 3/4"=1'-0"



SECTION A-A
Scale 3/4"=1'-0"

GENERAL NOTES

Specifications
Design A.A.S.H.O. dated 1953 with subsequent revisions, and
Bridge Department Supplement dated 1953.

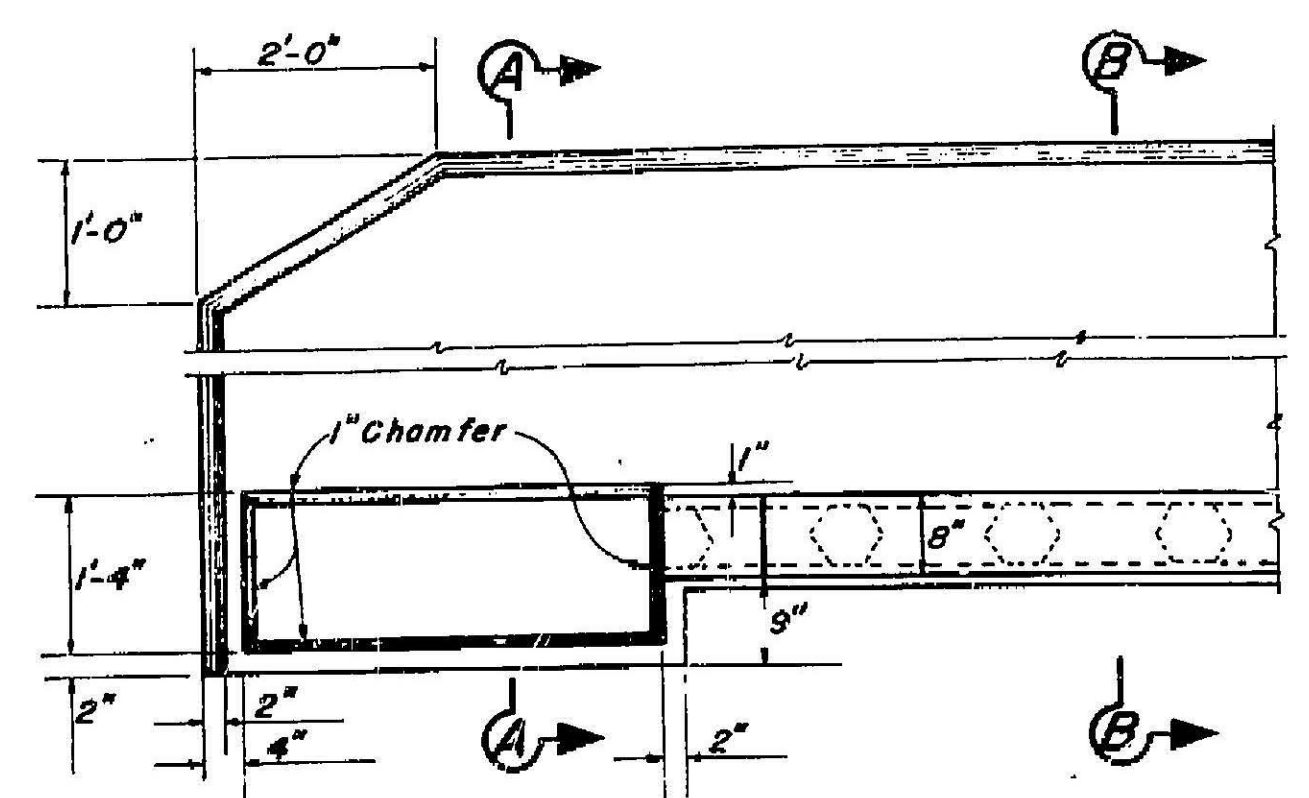
Construction: Standard Specifications, Divisions of Highways
dated August 1954 and the Special Provisions.

Live Loading: H20-S16-44

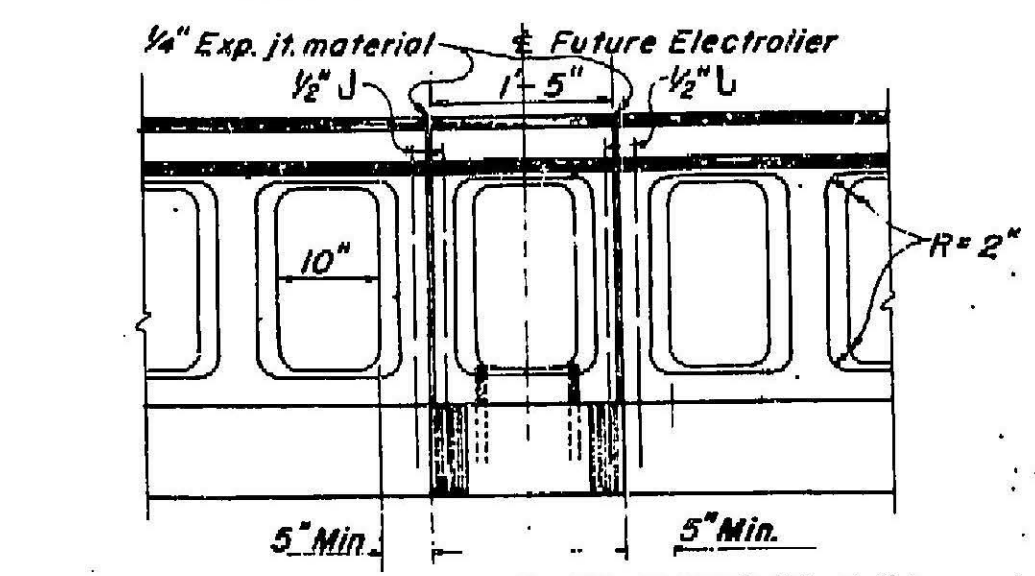
Unit Stresses:
Reinforced Concrete: $f_c = 20,000$ p.s.i., $f_s = 1250$ p.s.i.,
 ~~$f_c = 10,000$ p.s.i., $n = 10$~~
Structural Steel: $f_s = 18,000$ p.s.i.

Footing Pressure: 2 Tons p.s.f.

Reinforcement: Embedment is clear to outside of bar and is 2" to
main reinforcement, except as noted.
Backing for hooks is four diameters, except as noted.
Bar areas are based on rounds for less than 1" and
squares for over 1".
Where reinforcing bars are spliced they shall have a
20 diameter lap unless otherwise called for on the plans.



PLAN
DETAILS CONCRETE RAIL & END POST
Scale 3/4"=1'-0"



ELEVATION AT ELECTROLIER
Scale 3/4"=1'-0"

NOTE: See "ELECTRICAL DETAILS" sheet for anchor
bolt details and conduit. See Sheet No. _____
for additional reinforcement of electroliers.

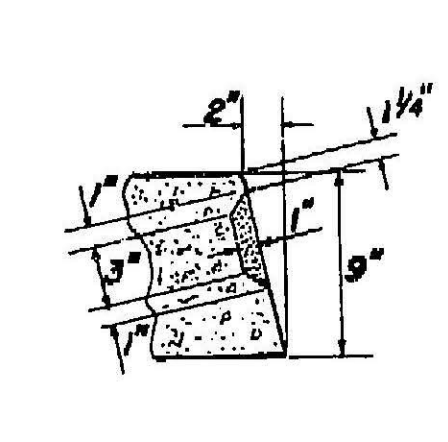
NOTE
Open joints top of rail
Open joints shall be placed at deck expansion joints, at curb
joints, at the first opening adjacent to the end post, and at
15' centers maximum.

Expansion joints in base of rail
Expansion joints shall be placed at deck expansion joints
and at curb joints.

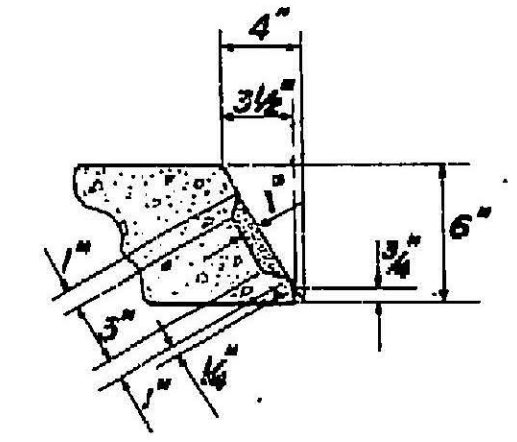
Expansion joints in curbs
Expansion joints in curbs shall be placed at deck expansion
joints, over bents or piers and at other points shown on the plans.

Expansion joints in the deck
At deck expansion joints the joints in curb and rail shall be
increased by an amount equal to the width of the deck joint.

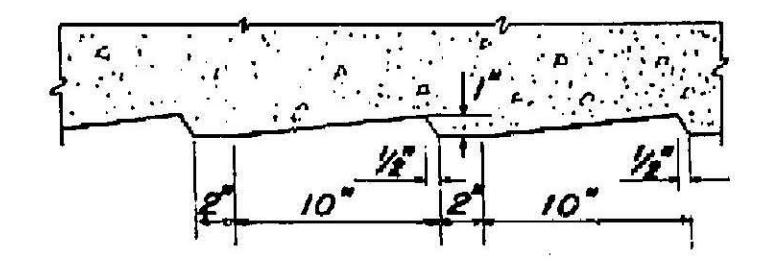
Structures set on a grade
When structure is set on a grade the balusters are to be set
vertical and the bottoms set horizontal.



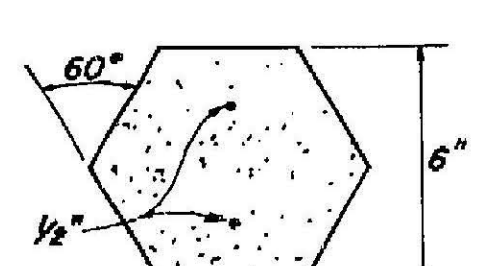
SECTION M-M
TYPE F
Scale 1/2"=1'-0"



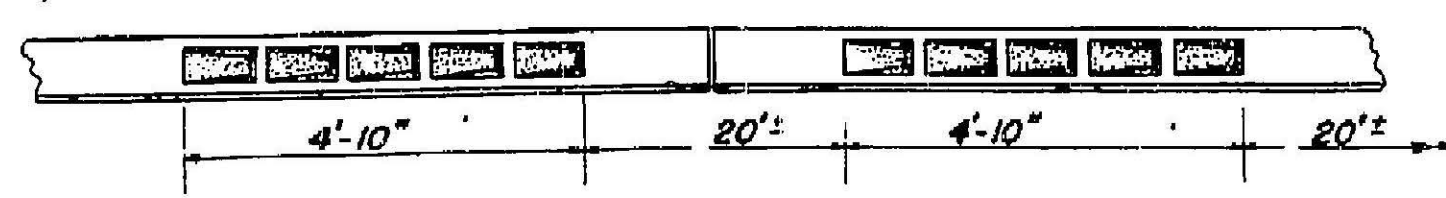
SECTION M-M
TYPE B
Scale 1/2"=1'-0"



SECTION N-N
Scale 1/2"=1'-0"

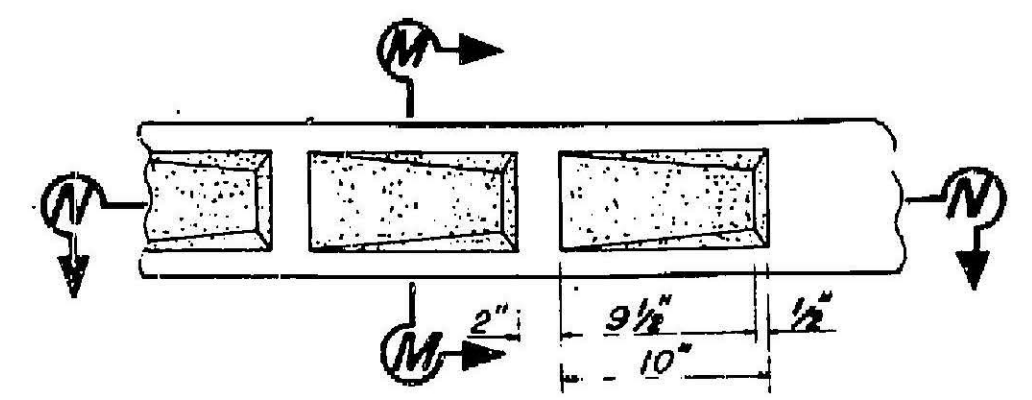


SECTION C-C
Scale 3"=1'-0"



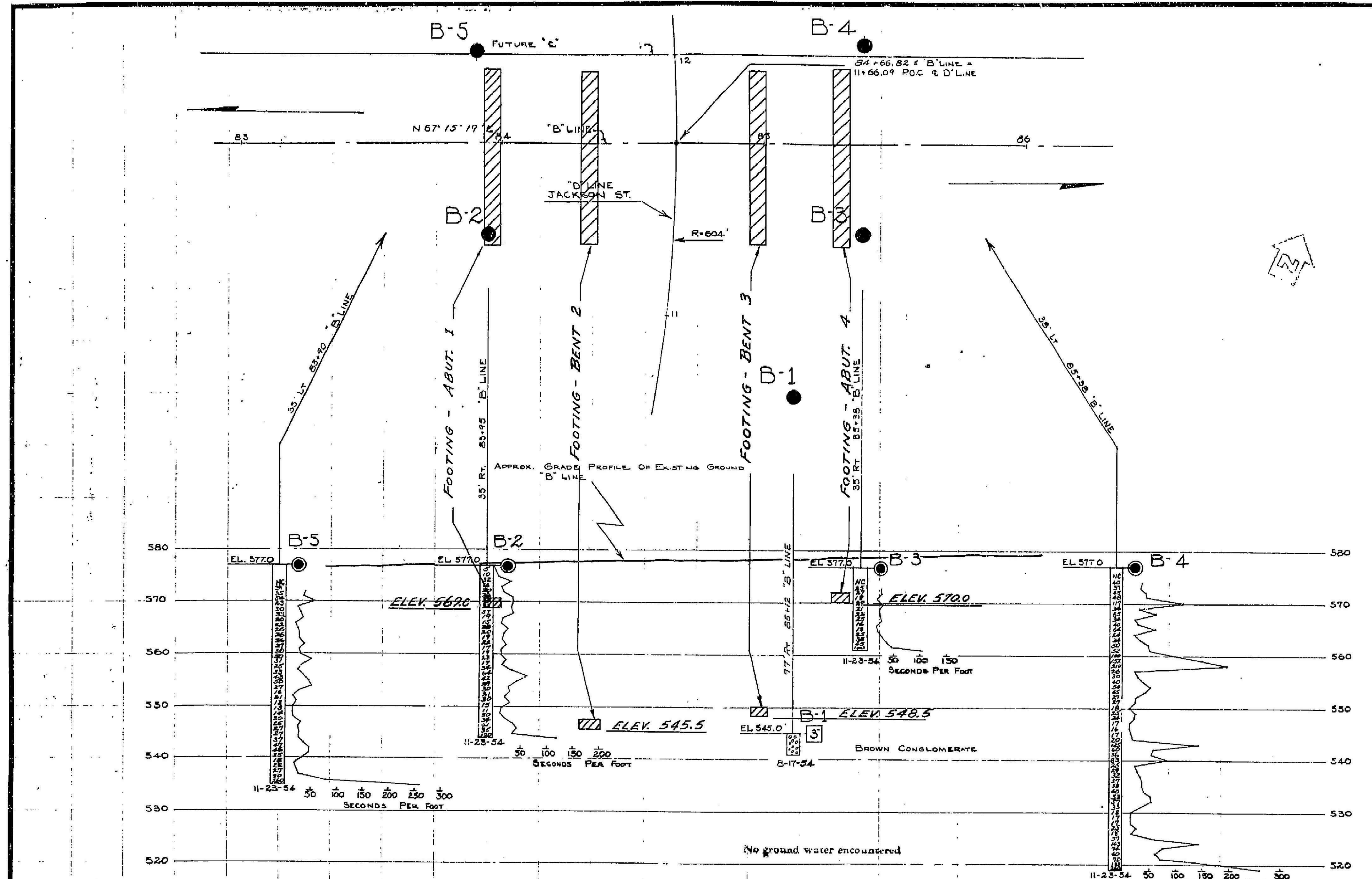
DIRECTION OF TRAFFIC FLOW
DIVIDING STRIP AND BRIDGE CURB
Scale 1/2"=1'-0"

Surfaces shown thus shall be painted.

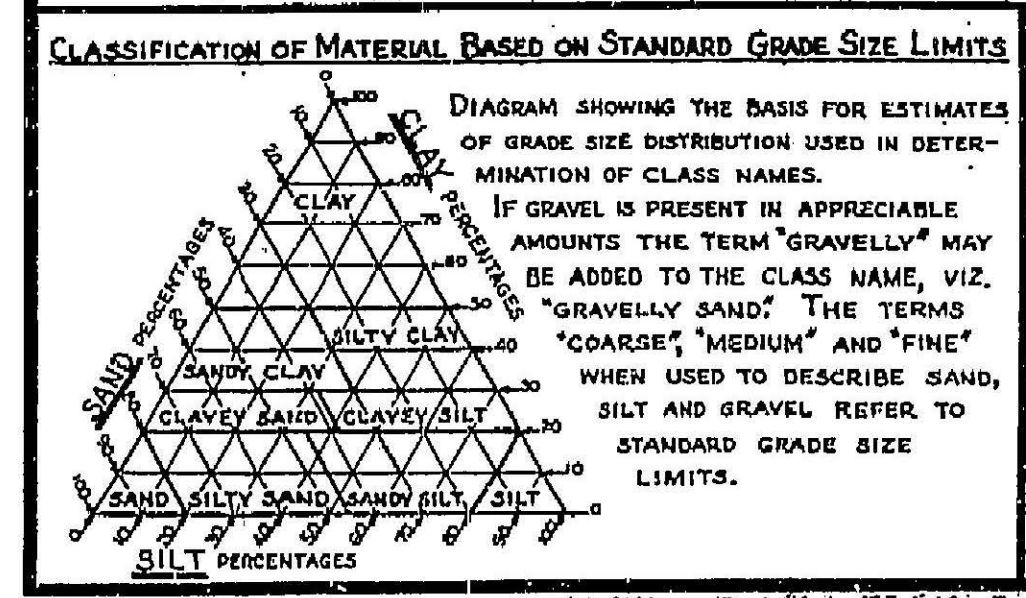


PANEL
Scale 1/2"=1'-0"

TABLE OF AVERAGE VOLUME & WEIGHT	
Height of Railing	3'-0" 2'-4"
One End Post	14.86 cu. ft. 11.13 cu. ft.
Railing	113 cu. ft. per l.f. 72 cu. ft. per l.f.
Weight	170 lbs. per l.f. 108 lbs. per l.f.



Test Boring By Bridge Dept.



LEGEND OF EARTH MATERIALS

GRAVEL	SILTY CLAY OR CLAYEY SILT
SAND	PEAT AND/OR ORGANIC MATTER
SILT	FILL MATERIAL
CLAY	IGNEOUS ROCK
SANDY CLAY OR CLAYEY SAND	SEDIMENTARY ROCK
SANDY SILT OR SILTY SAND	METAMORPHIC ROCK

LEGEND OF BORING OPERATIONS

● PLAN OF ANY BORING	○ PENETROMETER	○ 2 1/4" CONE PENETROMETER	○ SAMPLER BORING (DRY)	○ ROTARY BORING (WET)	○ AUGER BORING (DRY)	○ JET BORING	○ CORE BORING	□ TEST PIT
○ 1" SOIL TUBE	○ ROTARY BORING	○ PENETRATION BORING	<p>1" SOIL TUBE</p> <p>Top Hole El. Location</p> <p>Blows per foot (Using 14 lb hammer with 12" free fall)</p> <p>Blows per foot (Using 140 lb hammer with 33" drop, or as noted)</p> <p>Uncertified compressive strength (psi)</p> <p>Shear strength (psi)</p> <p>Groundwater surface</p> <p>Size of sampler (inches)</p> <p>Blows per foot (Using 140 lb hammer with 33" drop, or as noted)</p> <p>Uncertified compressive strength (psi)</p> <p>Shear strength (psi)</p> <p>Estimated material change</p> <p>Unconformable material change</p>					
<p>ROTARY BORING</p> <p>Top Hole El. Location</p> <p>Case driven</p> <p>Description of material</p> <p>Unit weight (pcf)</p> <p>% Moisture</p> <p>Consolidation Test</p> <p>Unconfined compressive strength (psi)</p> <p>Estimated material change</p> <p>Unconformable material change</p>			<p>PENETRATION BORING</p> <p>Top Hole El. Location</p> <p>Pushed</p> <p>No count</p> <p>Soundings per foot (Using a No. 2 McKeenan-Terry Air Hammer @ 115 psi or as noted)</p> <p>Average skin friction above this point (lb/ft)</p> <p>Graphic representation of driving rate</p> <p>Seconds per foot</p>					