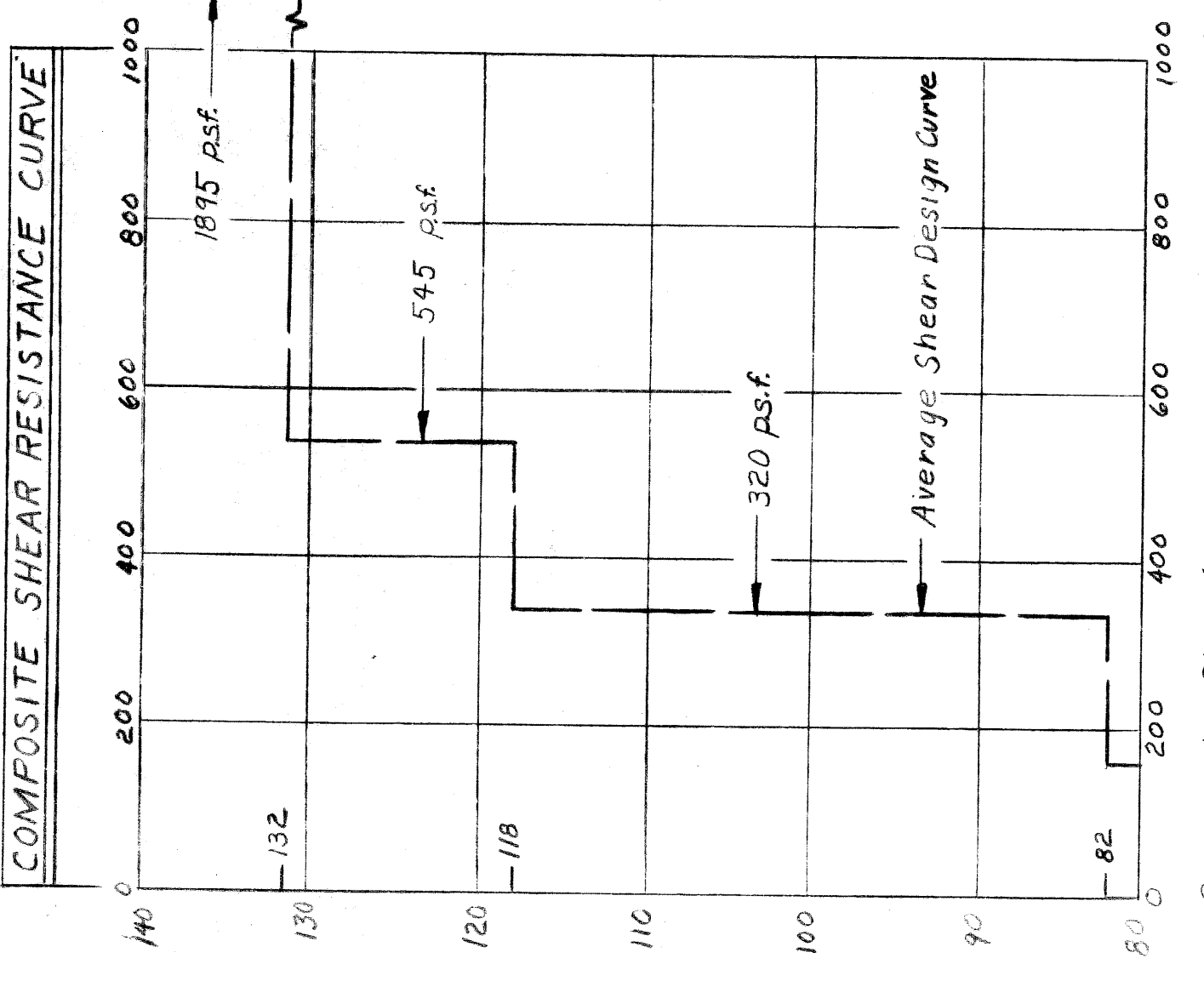
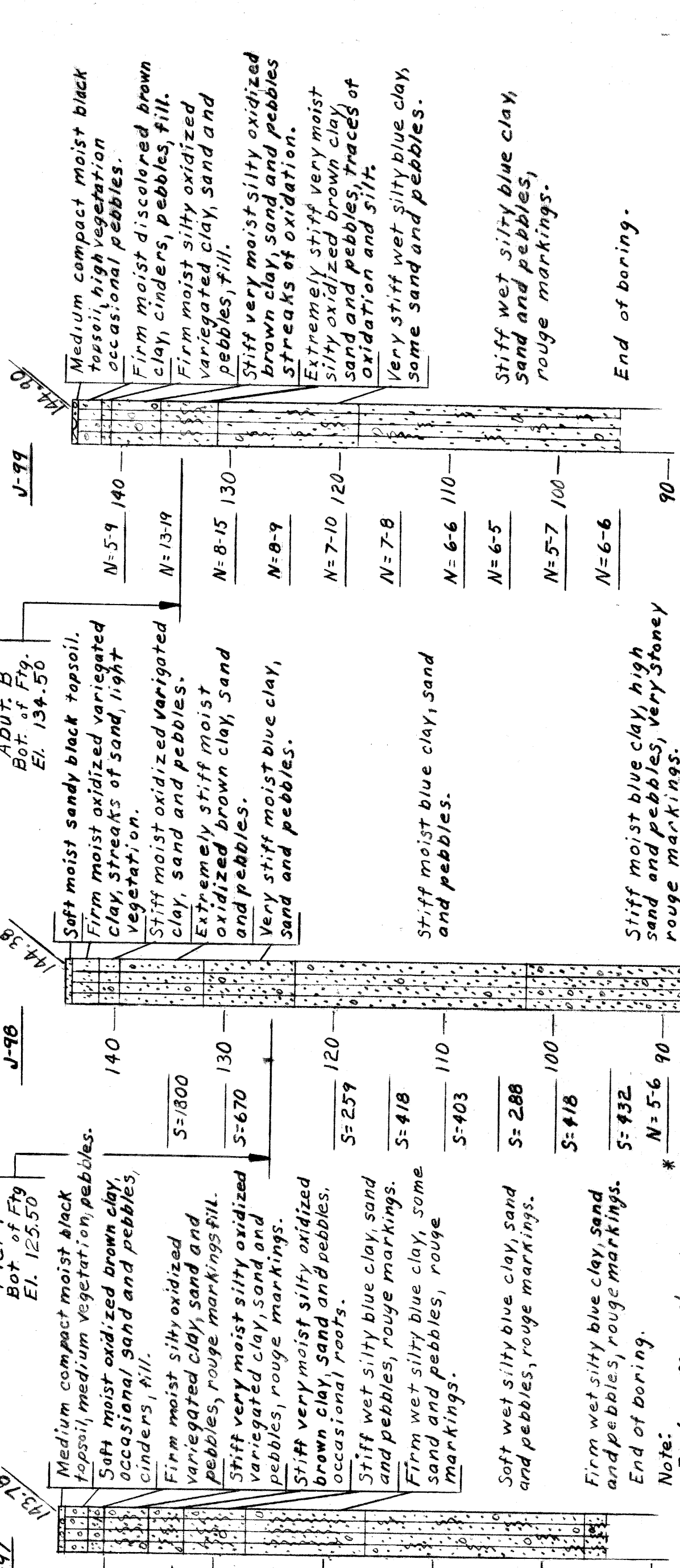


SURVEY PLAN
Scale - 1"=40'

- LEGEND**
- Tree
 - Fence
 - Sewer Manhole
 - Sewer Inlet or Catch Basin
 - Water Gate Well and Valve
 - FLC. Cable Manhole
 - Fine Hydrant
 - DED Alarm Box
 - Test Hole for Soil Profile
 - M.B.T. cable Manhole
 - Removed
 - FLC. Lightpole

NOTES:
 The topography shown represents conditions existing at the time the field survey was made. These conditions may have been altered by the operations of others before this work is started. Bench Marks are referenced to the City of Detroit Datum.
 The work covered by these plans includes the construction of the Proposed Bridge and slope protection to the limits shown. All other work is included in the road plans which are a part of this contract.
 Removal of fences and buildings is not a part of this contract.

LOG OF SOIL BORINGS



NOTES:
 N Indicates the number of blows required to drive the sampler 6" (or as noted) using a 140 lb hammer falling 30". Where blow count is not shown, sampler was levered, pushed or hand-driven.
 S Indicates Transverse Shearing Resistance in Lbs. per Sq. Ft. as determined by M.D.S.H. Standard Test.
 * Indicates no sample.
 All elevations are based on City of Detroit Datum.
 Information given on this sheet for Boring U-99 is taken from field reports only.
 Soil Borings were made by the Michigan Drilling Company.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 CLARENDON AVE. PEDESTRIAN BRIDGE
 OVER THE JEFFRIES FREEWAY IN DETROIT

GENERAL PLAN OF SITE

DESIGN SUPERVISING ENGINEER
 DESIGN ENGINEER

APPROVED
 APPROVED

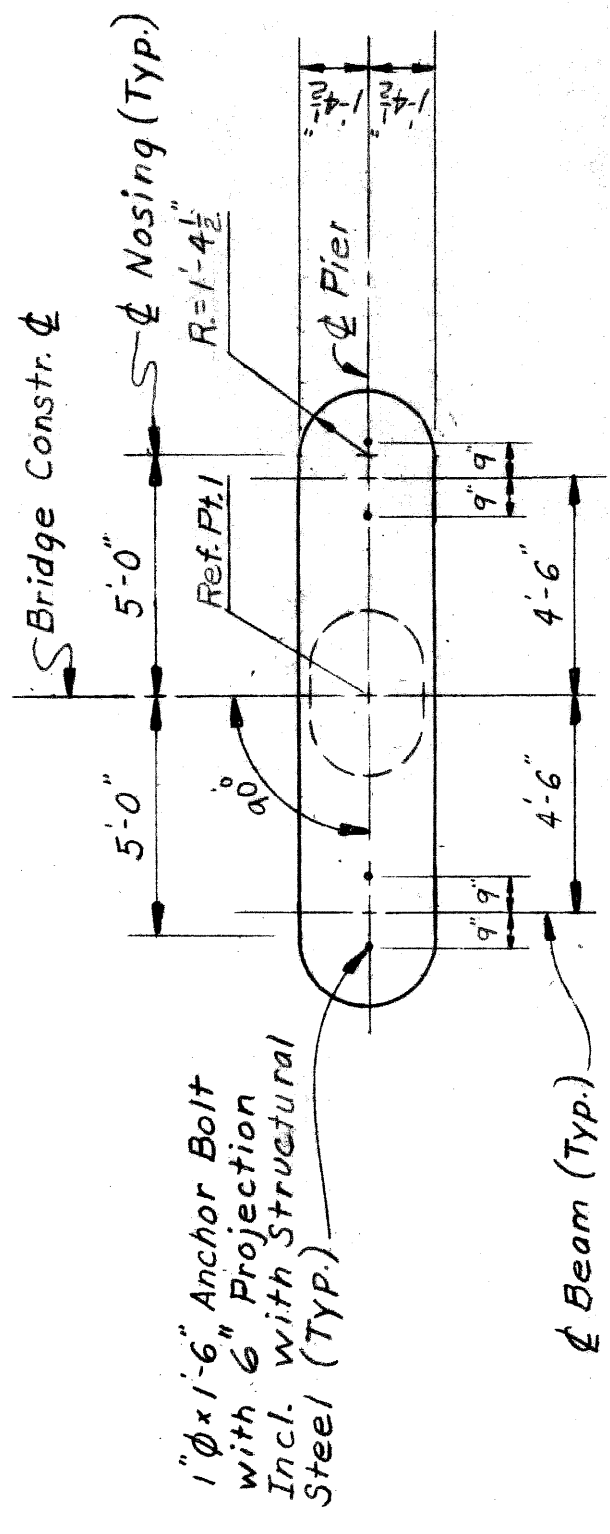
REVISIONS
 NO. DESCRIPTION DATE BY

JOB No.
 PW 990(4)

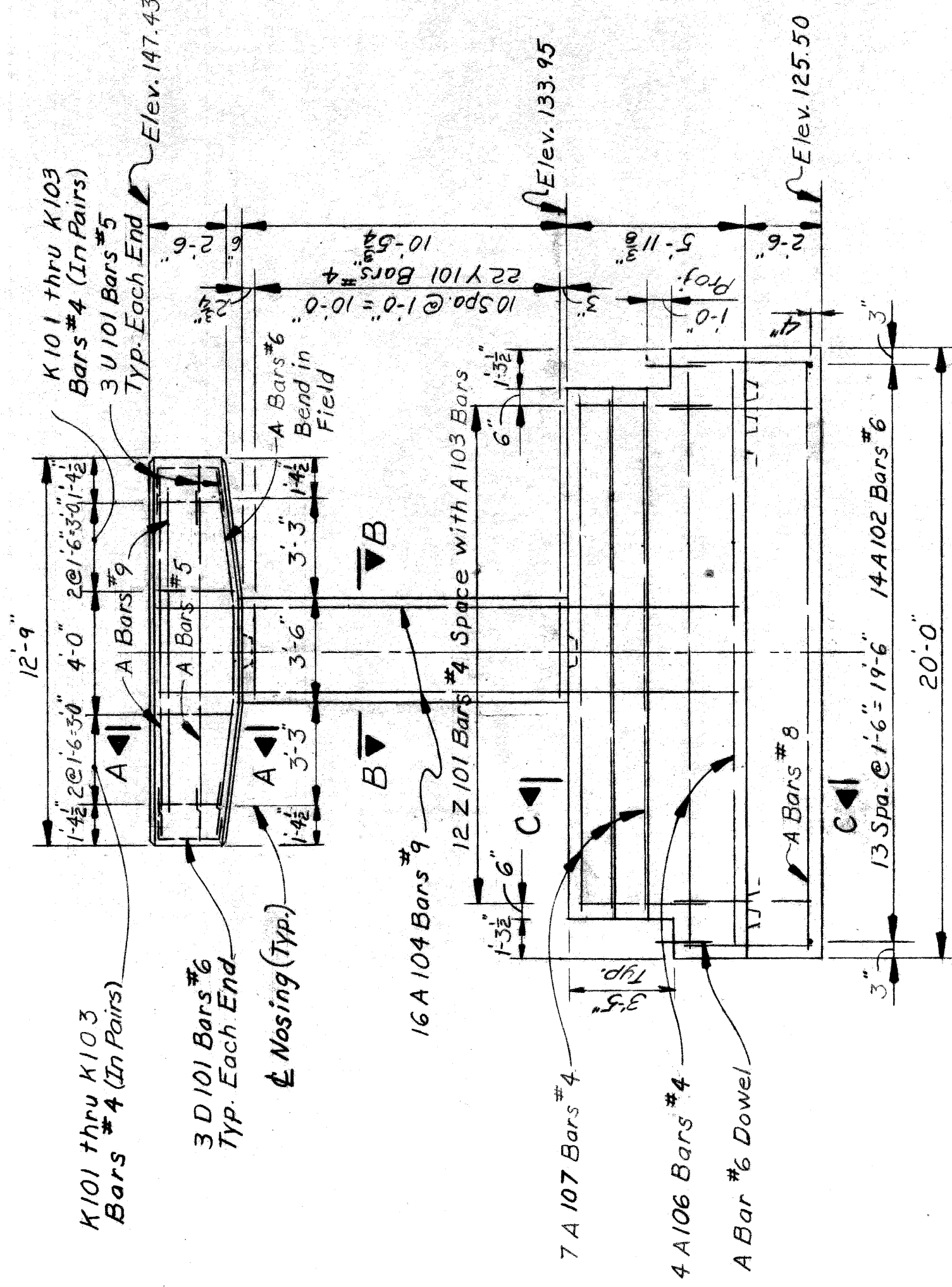
REVISED BY
 DATE

REVISED BY
 DATE

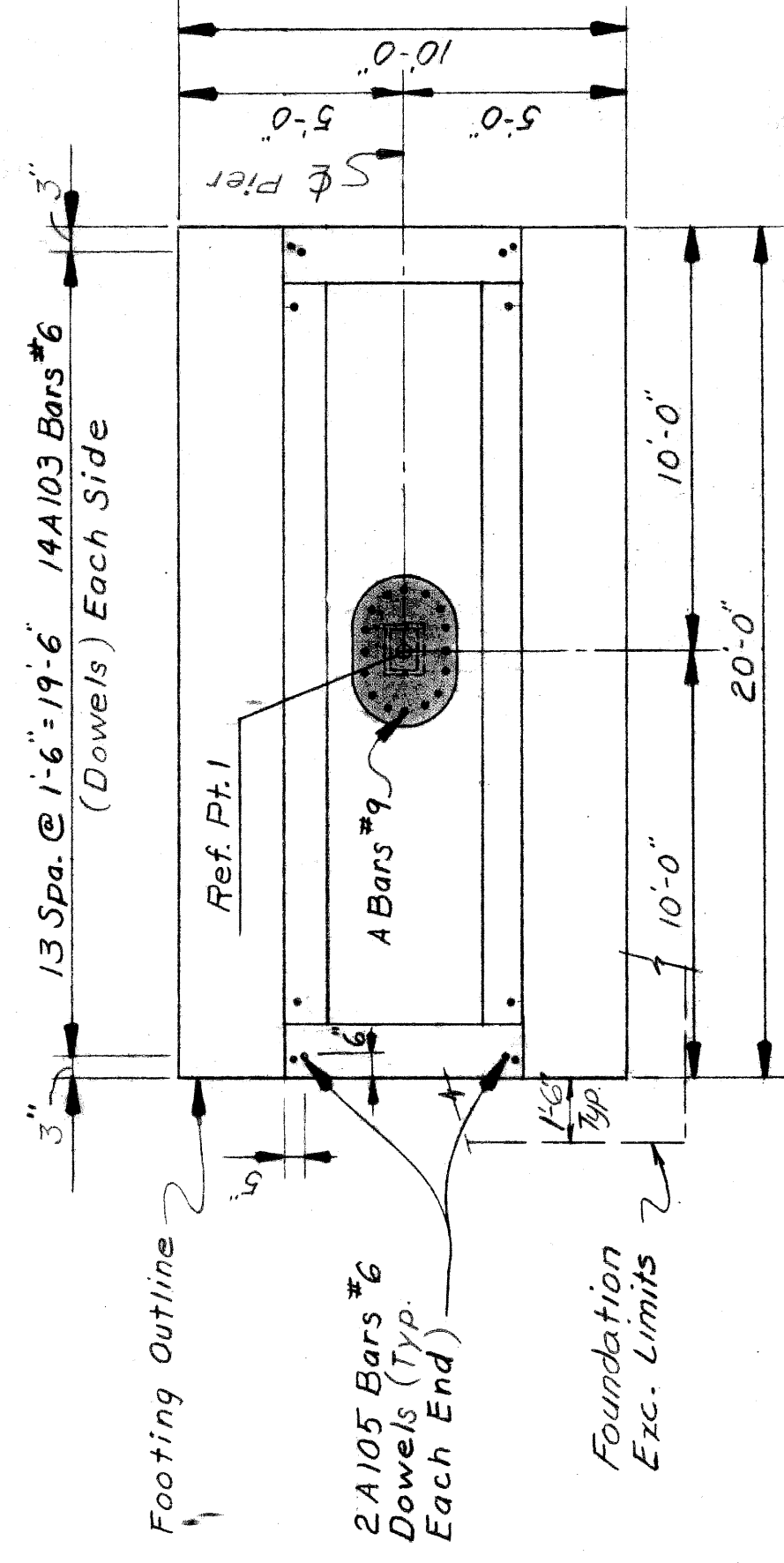
REVISED BY
 DATE



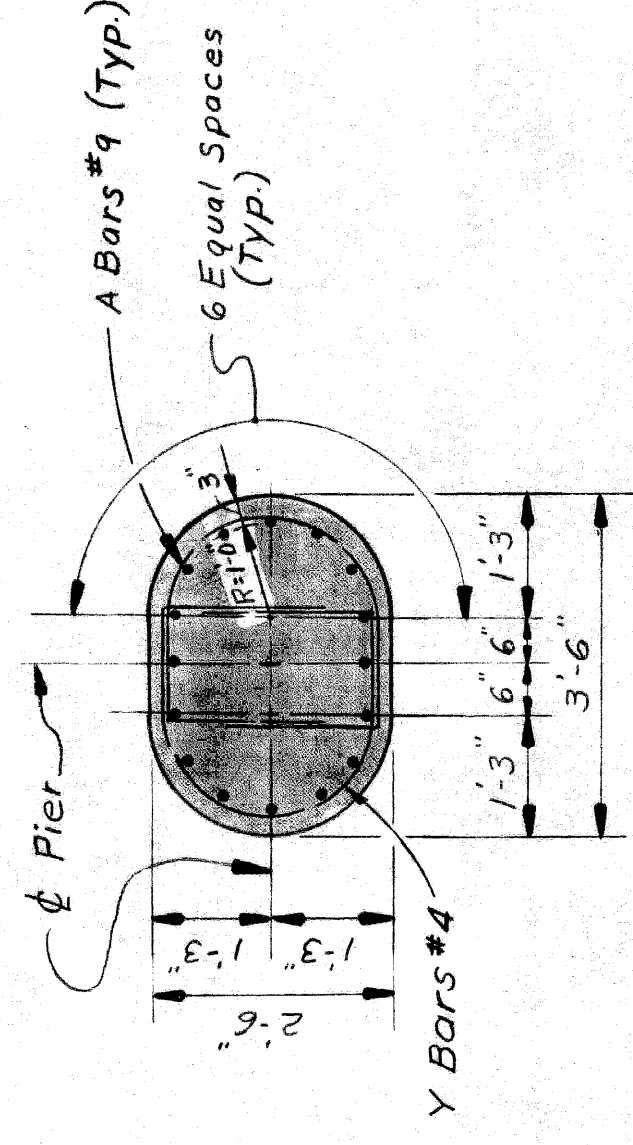
PLAN OF TOP



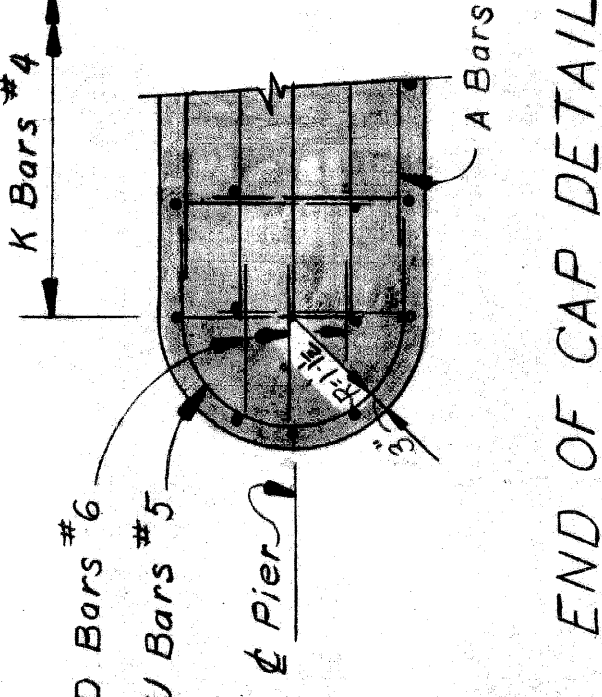
ELEVATION



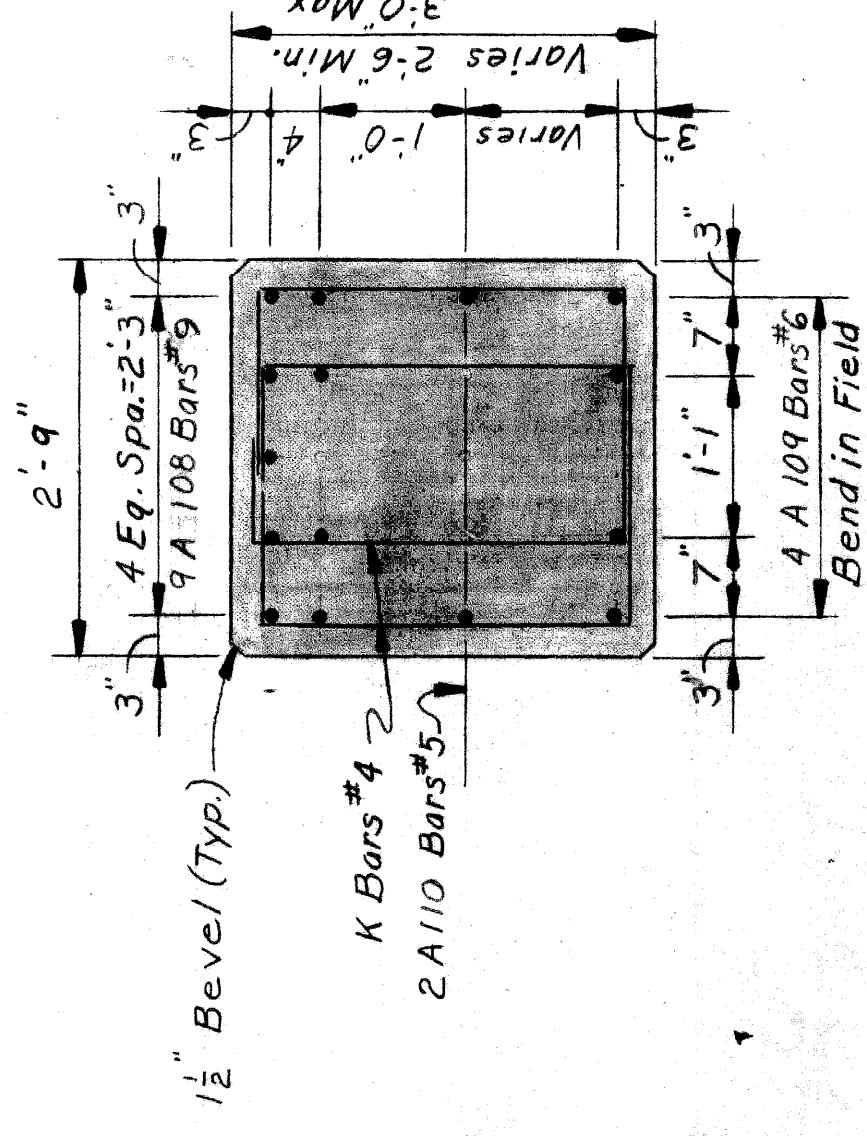
FOUNDATION PLAN



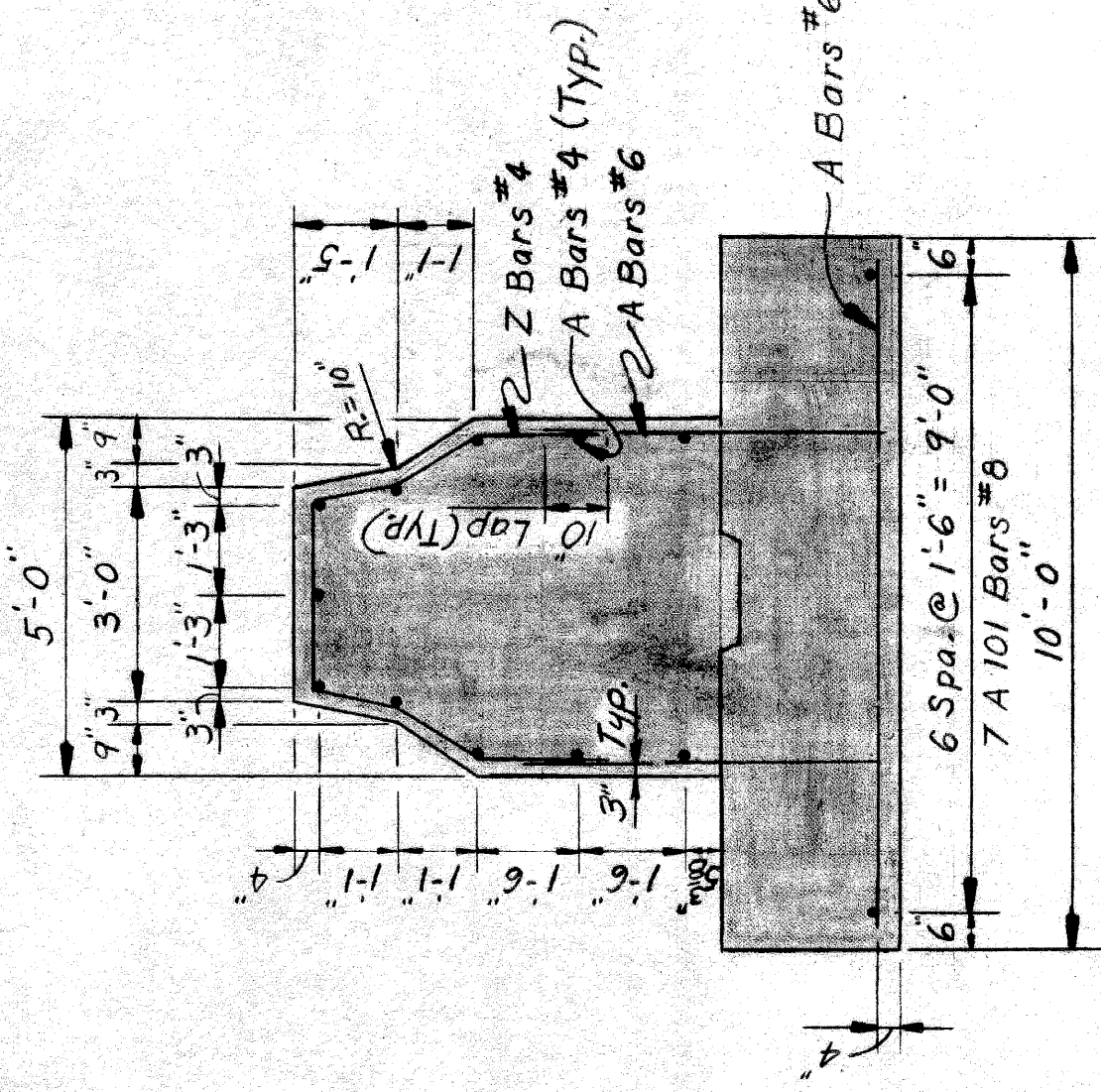
SECTION B-B



END OF CAP DETAIL



SECTION A-A



SECTION C-C

POUR	LOCATION	Gr. A (6A) or A (6AA)	CU. YDS.
A	Footing	18.5	—
B	Barrier Wall	—	18.3
C	Column	—	2.9
D	CAP	—	3.5
TOTAL		18.5	24.7

CONCRETE QUANTITIES CU. YDS.

ITEM	UNIT	AMT.
Unclassified Excavation	Cu. Yds.	34
Low Temperature Protection	Cu. Yds.	43
Clear Protective Coating for Substructure Concrete	Sq. Yds.	47

MISCELLANEOUS QUANTITIES

GENERAL NOTES

- For bevel and molding details see Std. Sheet R16
- Anchor Bolts shall be set accurately to a template.
- The Project Engineer shall adjust the spacing of the reinforcing steel as required to permit placing of anchor bolts.
- Maximum average foundation pressure D.L. only = 2150 Lbs./Sq. Ft.
- Maximum foundation pressure D.L. and L.L. = 2300 Lbs./Sq. Ft.
- Cover entire pier with clear protective coating for substructure concrete to 6" below finished ground.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

PLANS PREPARED BY
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 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

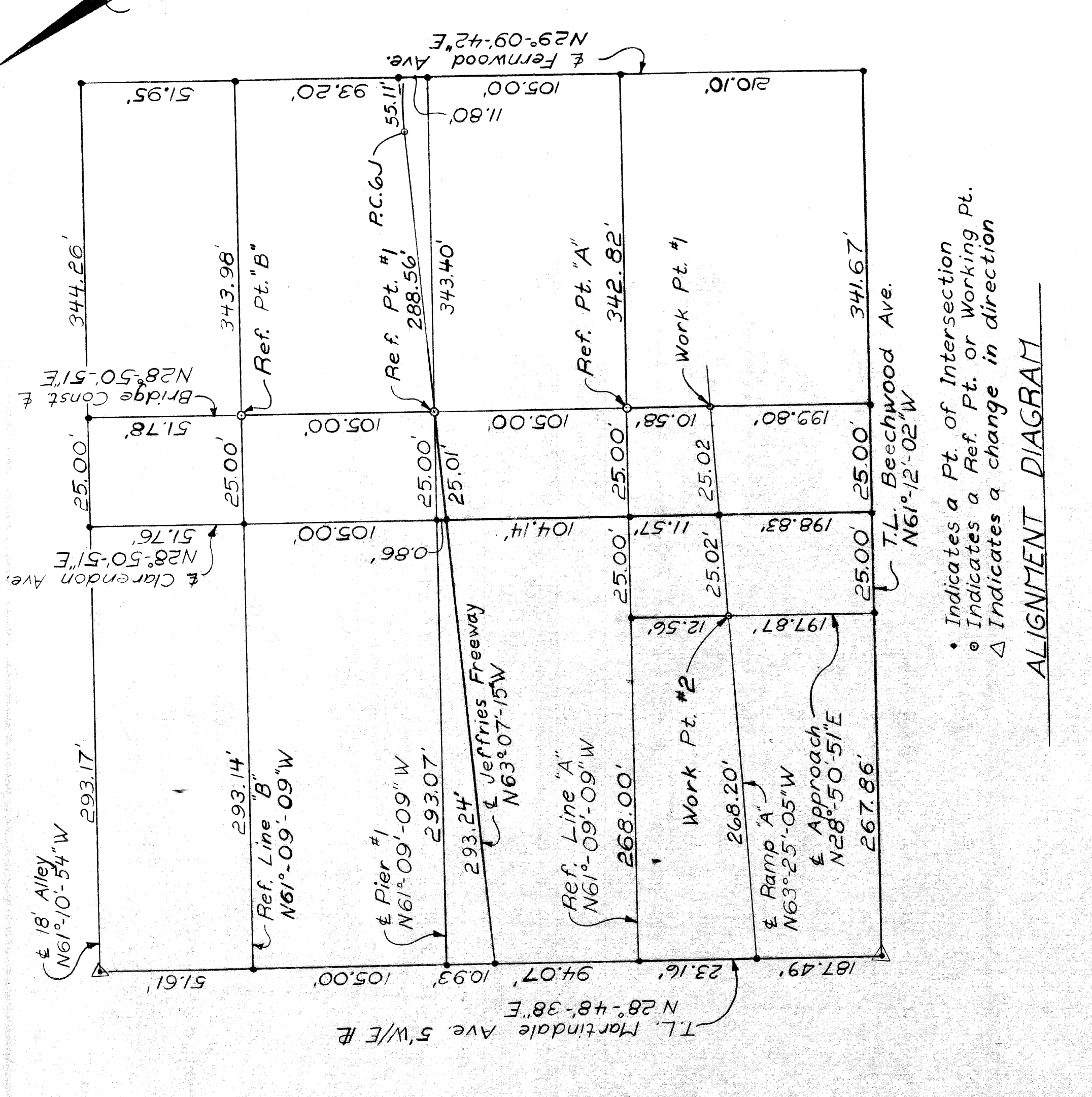
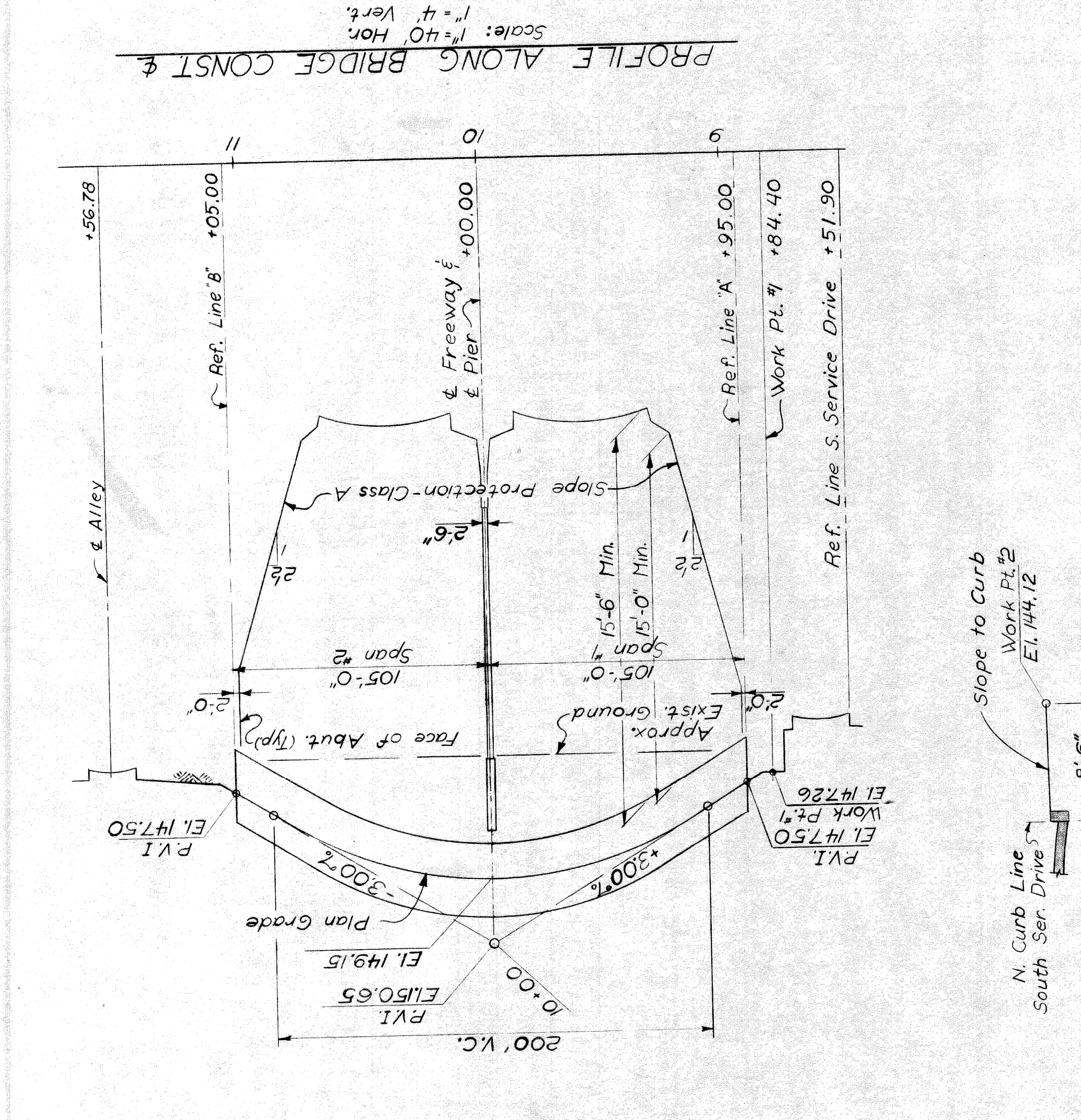
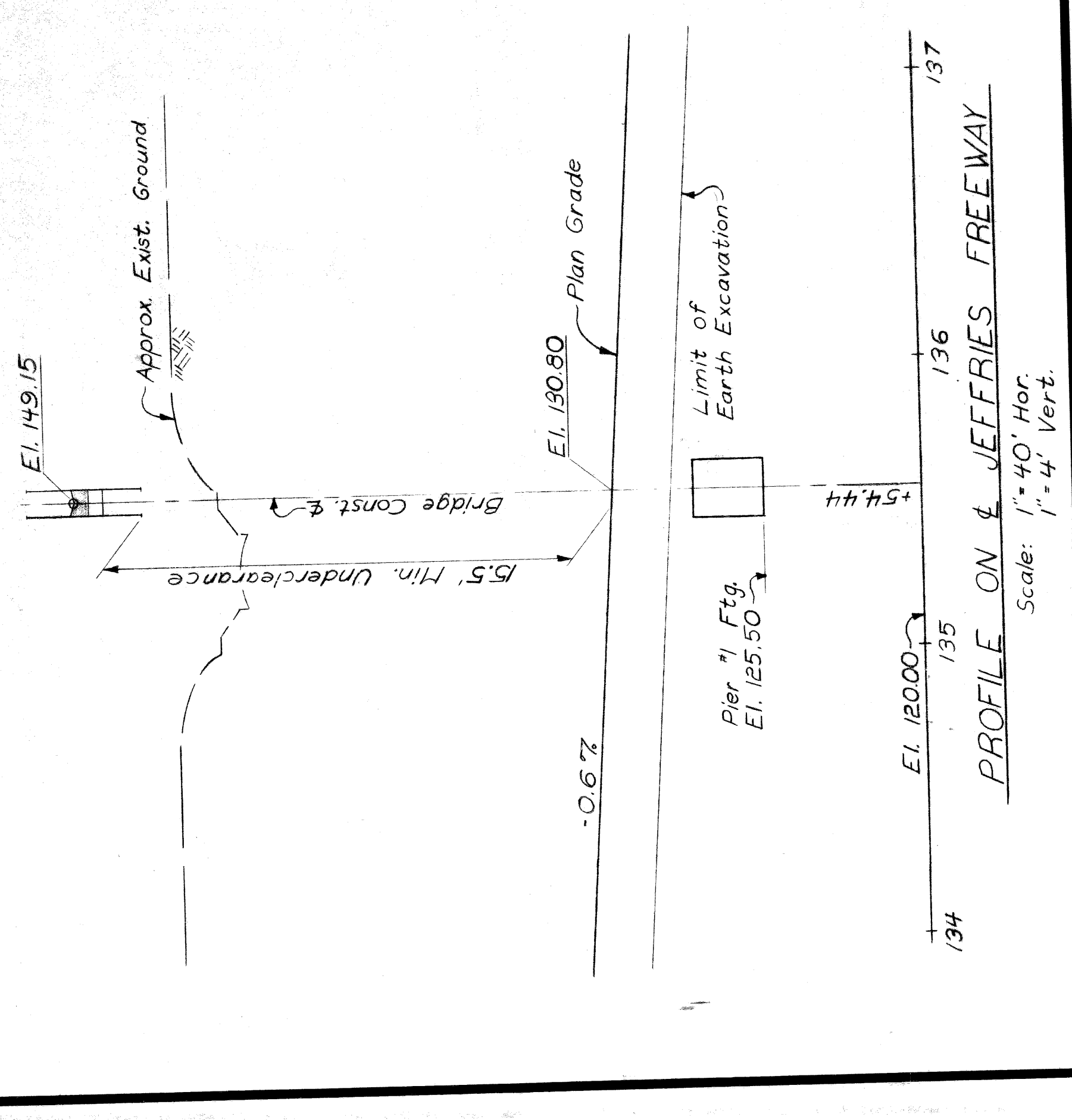
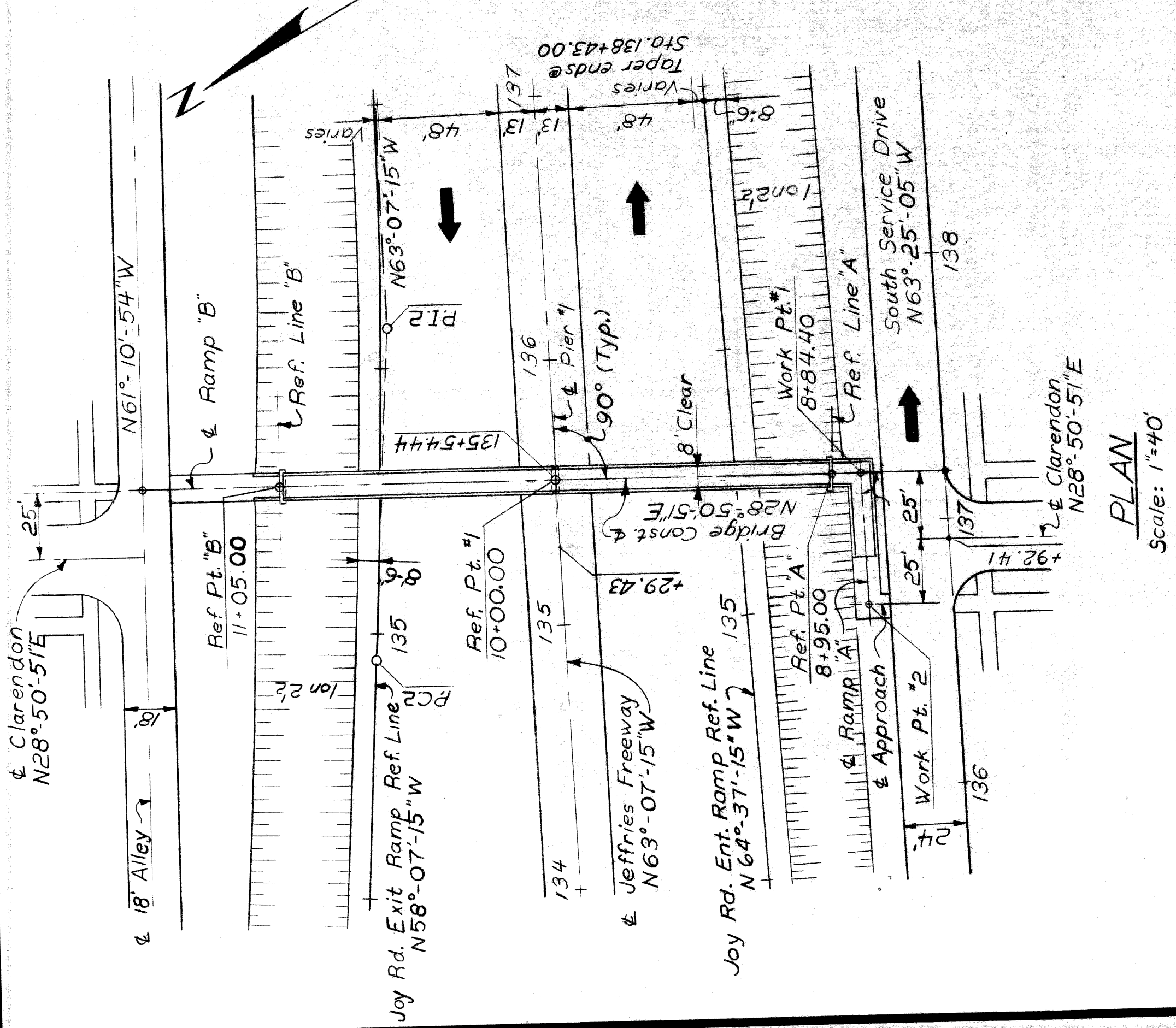
NO.	DESCRIPTION	DATE	BY

PIER DETAILS

APPROVED: *[Signature]*
 STRUCTURAL ENGINEER

JOB NO.
PW 990(4)

CITY OF DETROIT
 DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 SHEET II OF 16
 10/68
 5-69
 P.O. of 821231



CURVE DATA FOR JOY RD. EXIT RAMP
Curve #2

Δ = 5° 00' 00"
D = 2° 00' 00"
R = 2864.79'
T = 125.08'
L = 250.00'
E = 2.73'
PC = 134+90.15
PT = 137+40.15

BENCH MARKS:

C.B.M. 111 Elev. 146.45 Arrow on Hydrant N.W. Corner Beechwood and Clarendon.
C.B.M. 112 Elev. 149.50 Arrow on Hydrant S.W. Corner Grand River and Clarendon.
P.B.M. 22-250 Elev. 142.906 C. of D. Monument N.W. Corner Grand River and Euclid.
C.B.M. denotes Construction Bench Mark
P.B.M. denotes Permanent Bench Mark
All elevations are based on City of Detroit Datum.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
CLARENDON AVE. PEDESTRIAN BRIDGE
OVER THE JEFFRIES FREEWAY IN DETROIT

GENERAL DRAWING

PLANS PREPARED BY
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CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

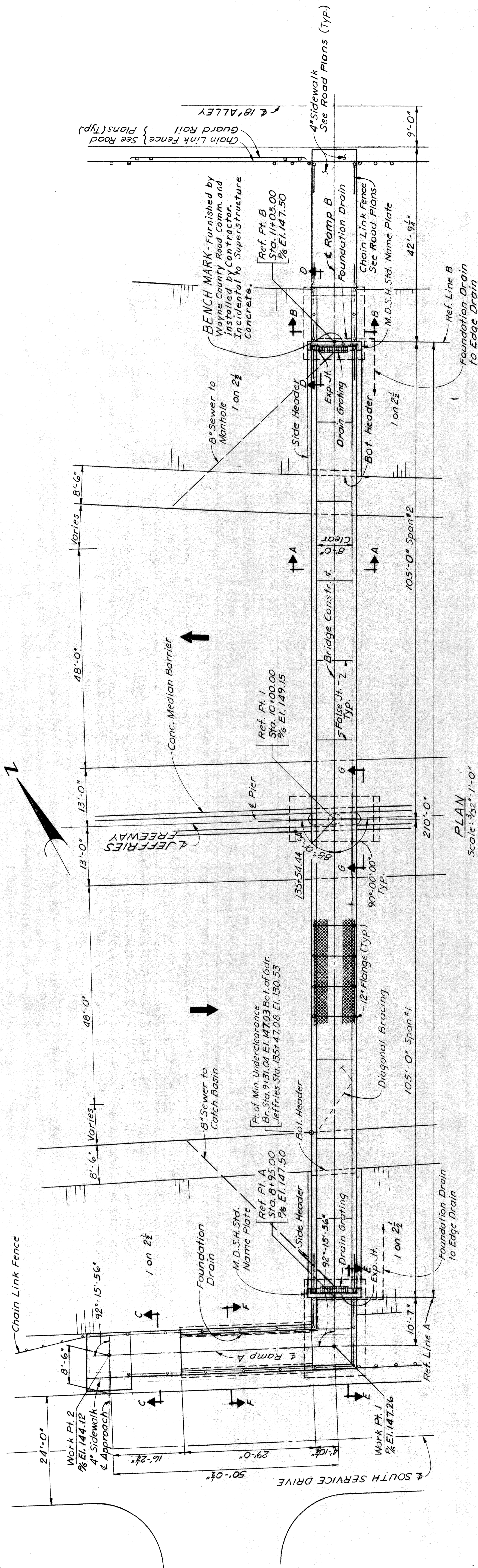
APPROVED: [Signature] STRUCTURAL ENGINEER
JOB No. PW 990(4)

DESIGN SUPERVISING ENGINEER
DESIGN ENGINEER

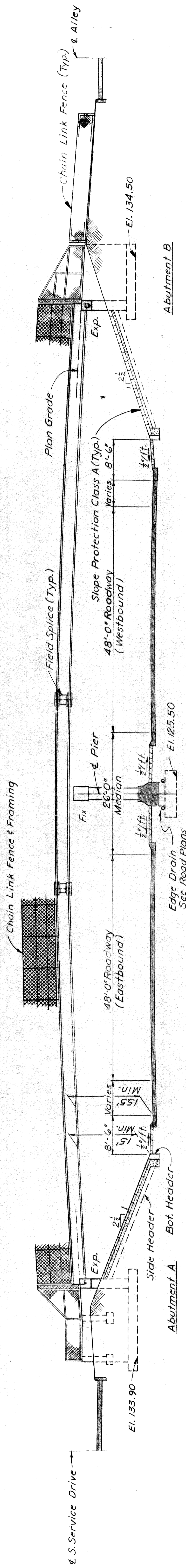
APPROVED: [Signature] DESIGN SUPERVISING ENGINEER
APPROVED: [Signature] DESIGN ENGINEER

DATE: [] BY: []
REVISIONS: [] DESCRIPTION: []

SHEET 3 OF 16
P04 of 821231



PLAN
Scale: 3/32" = 1'-0"



ELEVATION
Scale: 3/32" = 1'-0"

MISCELLANEOUS QUANTITIES		
Item	Unit	Amount
8" Sewer	Lin. Ft.	94
Slope Protection - Class A	Sq. Yd.	85
Slope Protection Header	Lin. Ft.	127
Foundation Drains	Lin. Ft.	74

PLANS PREPARED BY
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DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *H. Reed*
STRUCTURAL ENGINEER

JOE No.
PW 990(4)

REVISIONS

NO.	DATE	DESCRIPTION

DESIGN SUPERVISING ENGINEER
APPROVED: _____

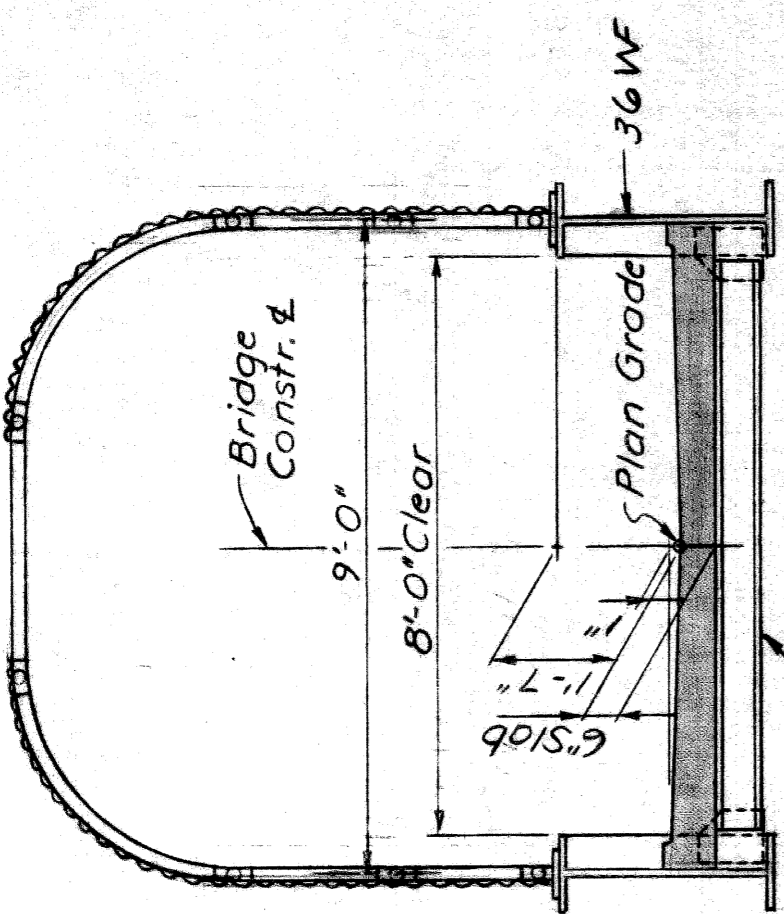
DESIGN ENGINEER
APPROVED: _____

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
CLARENDON AVE. PEDESTRIAN BRIDGE
OVER THE JEFFRIES FREEWAY IN DETROIT

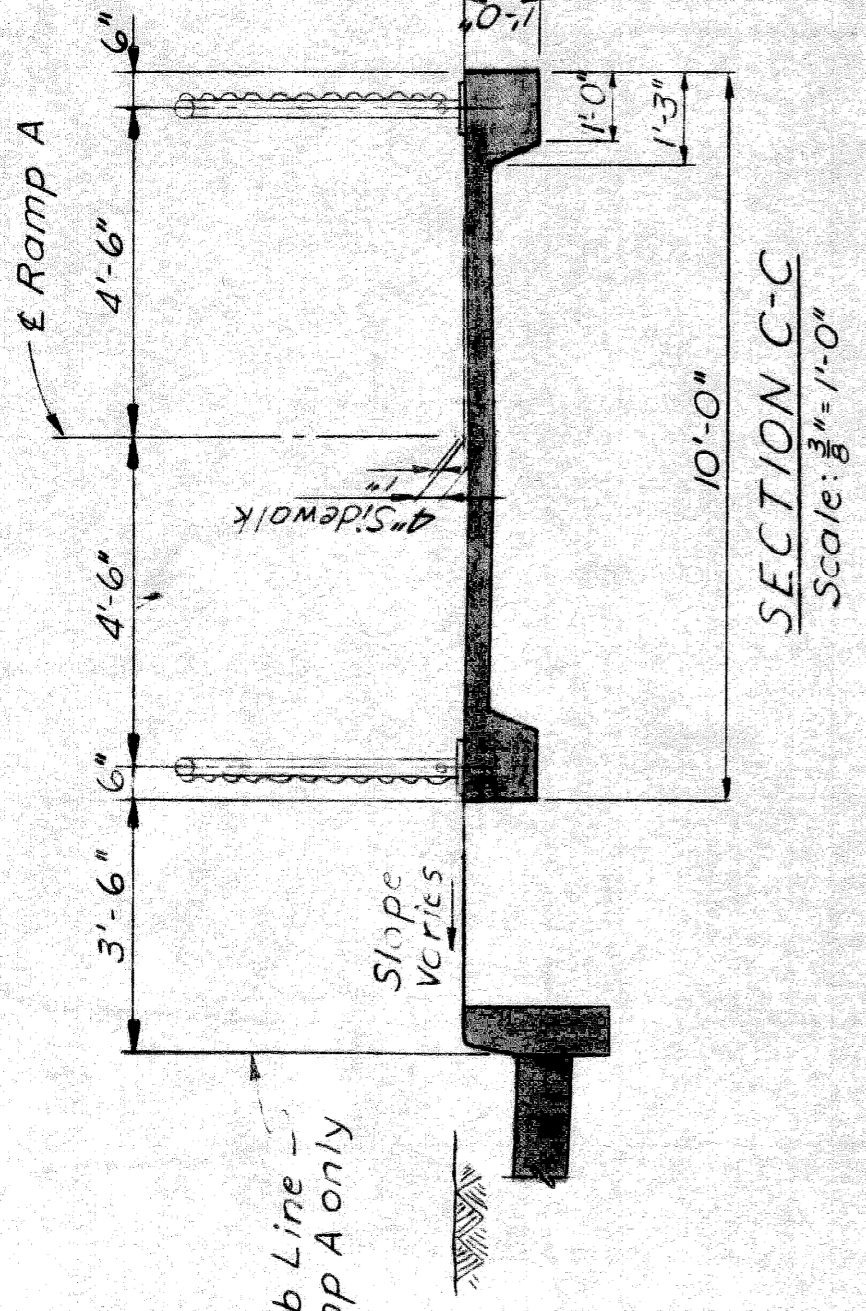
GENERAL PLAN OF STRUCTURE

CITY OF DETROIT
SOUND BOSS: *M. G. H. S.*
DRAWN BY: *M. G. H. S.*
CHECKED BY: *R. HARRIS*
DATE: _____
SHEET 4 OF 16

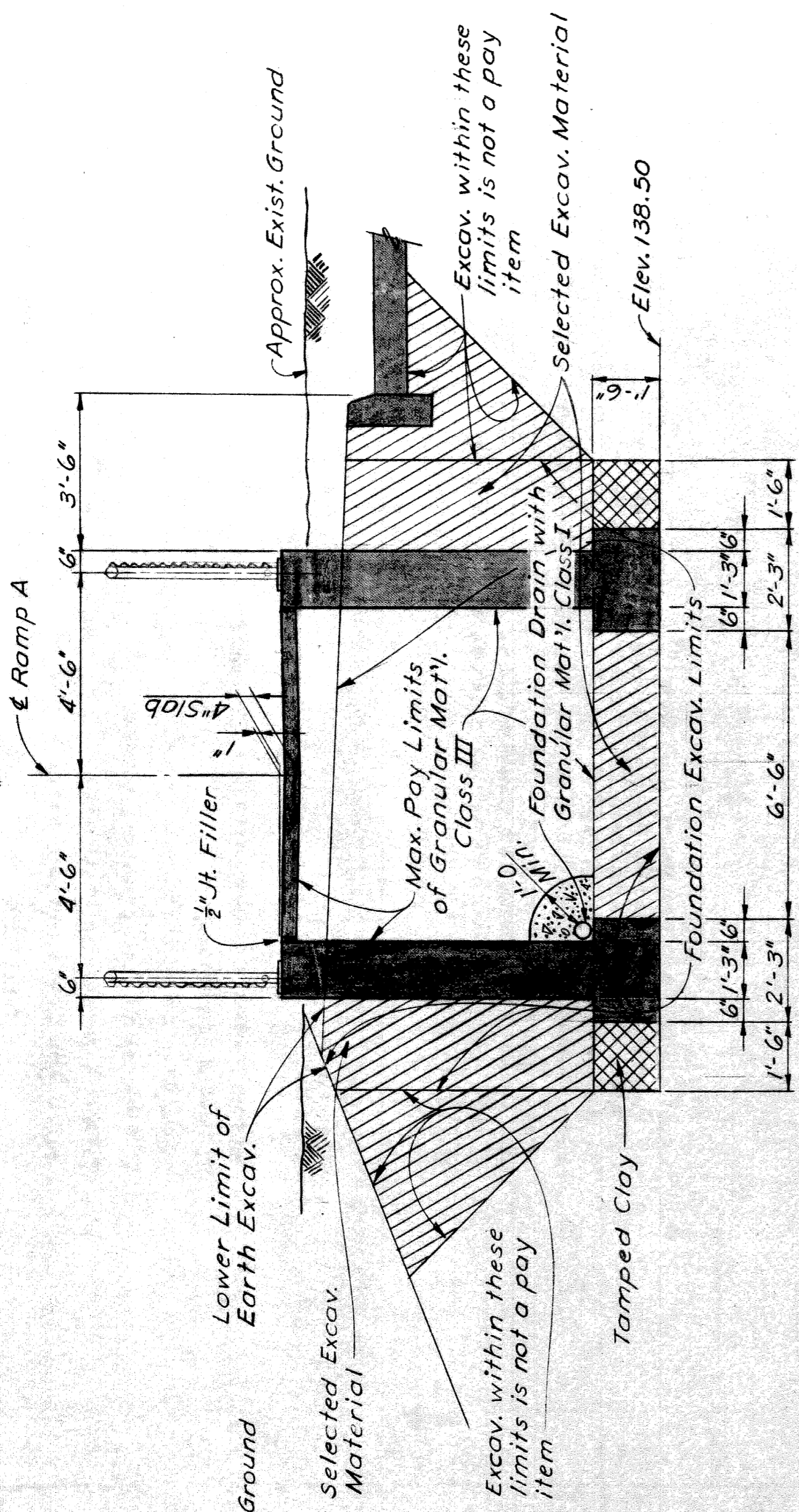
P04 of 821231



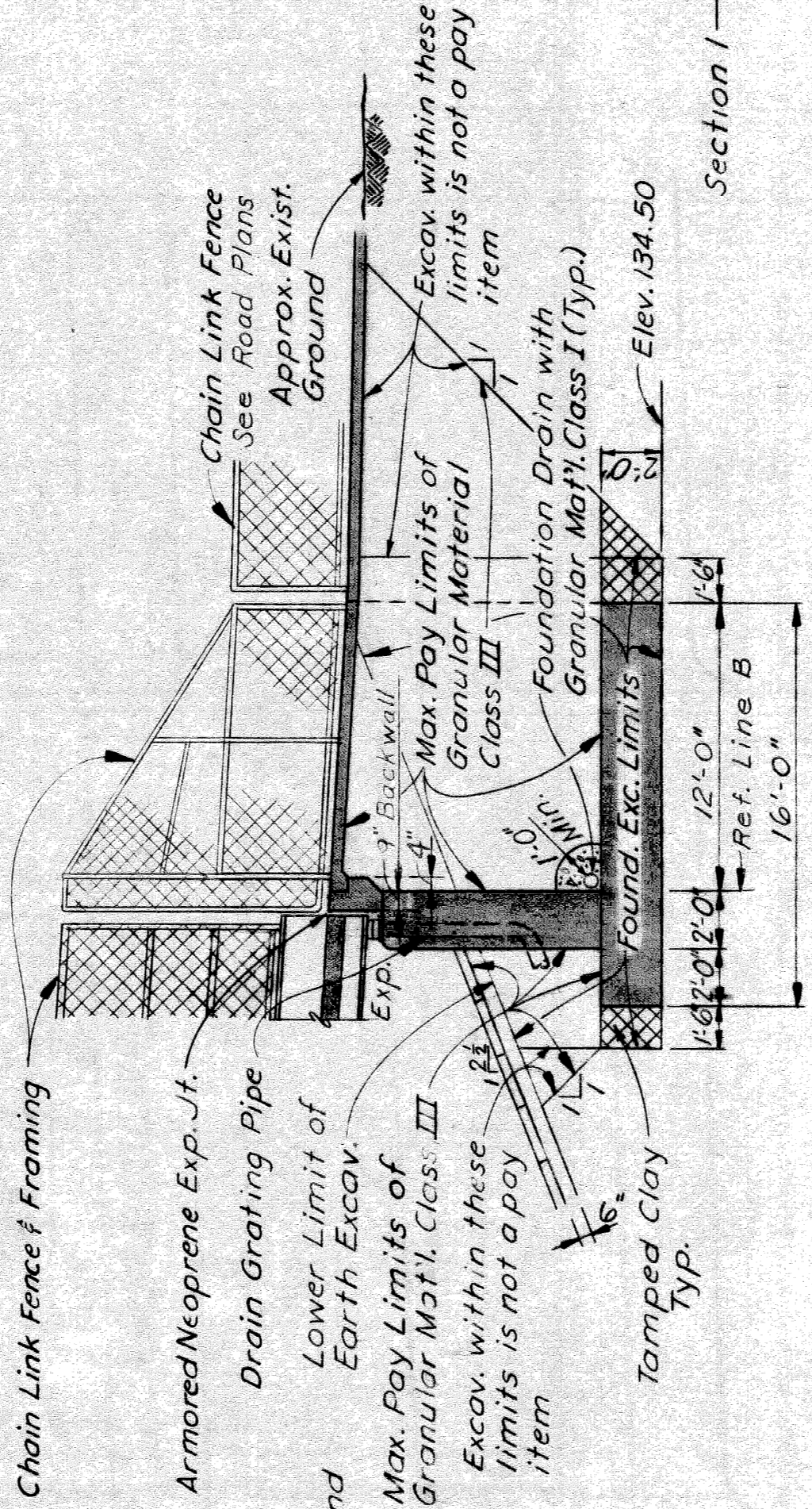
SECTION A-A
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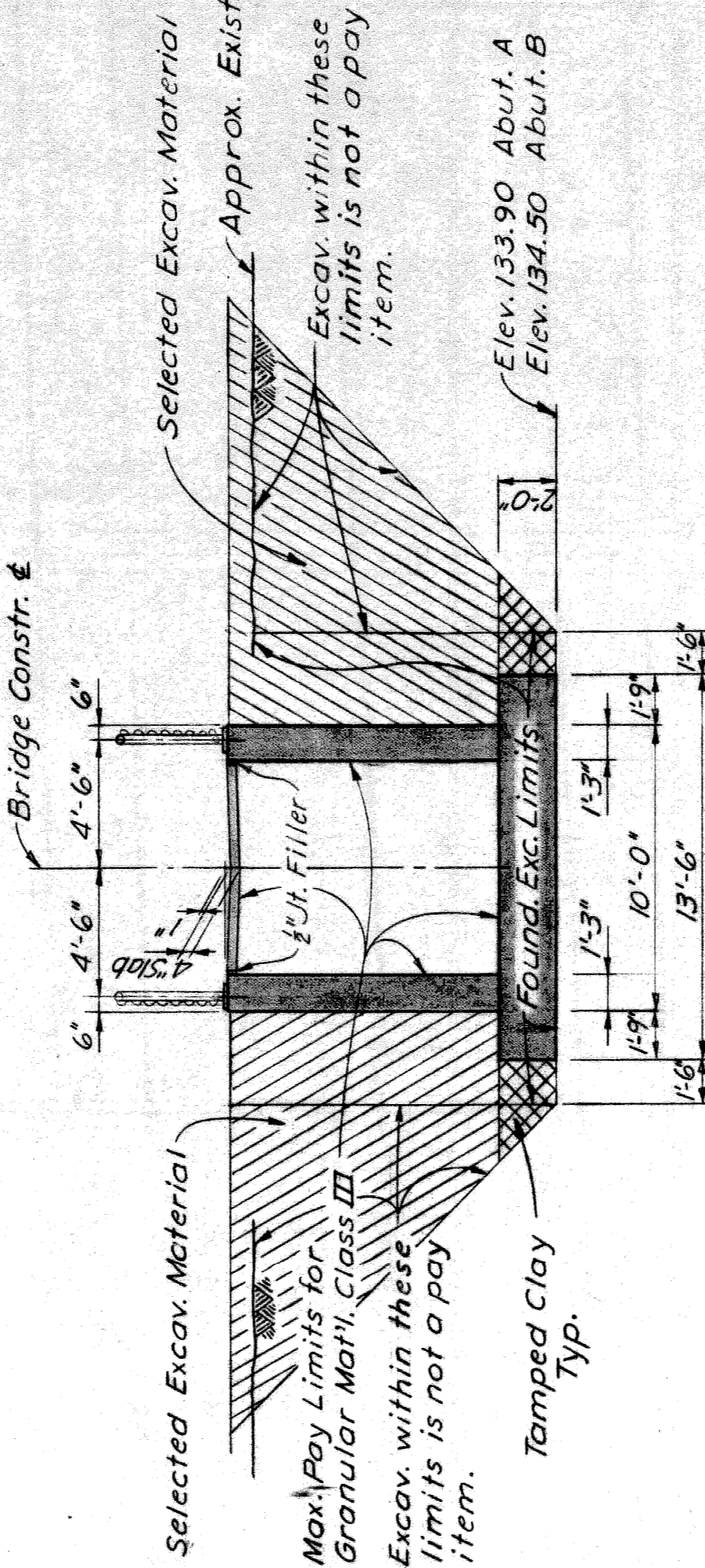
SECTION C-C
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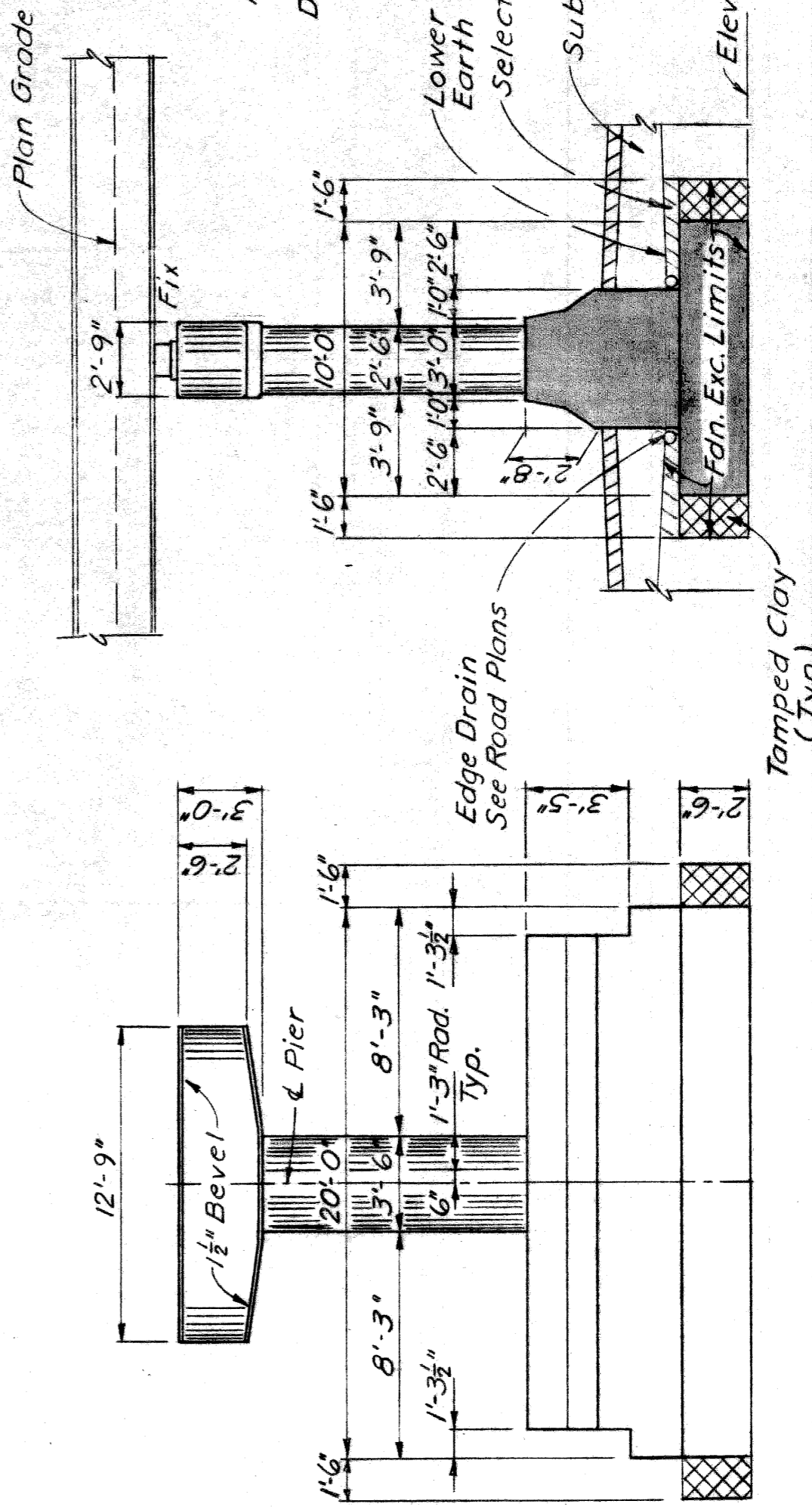
SECTION F-F
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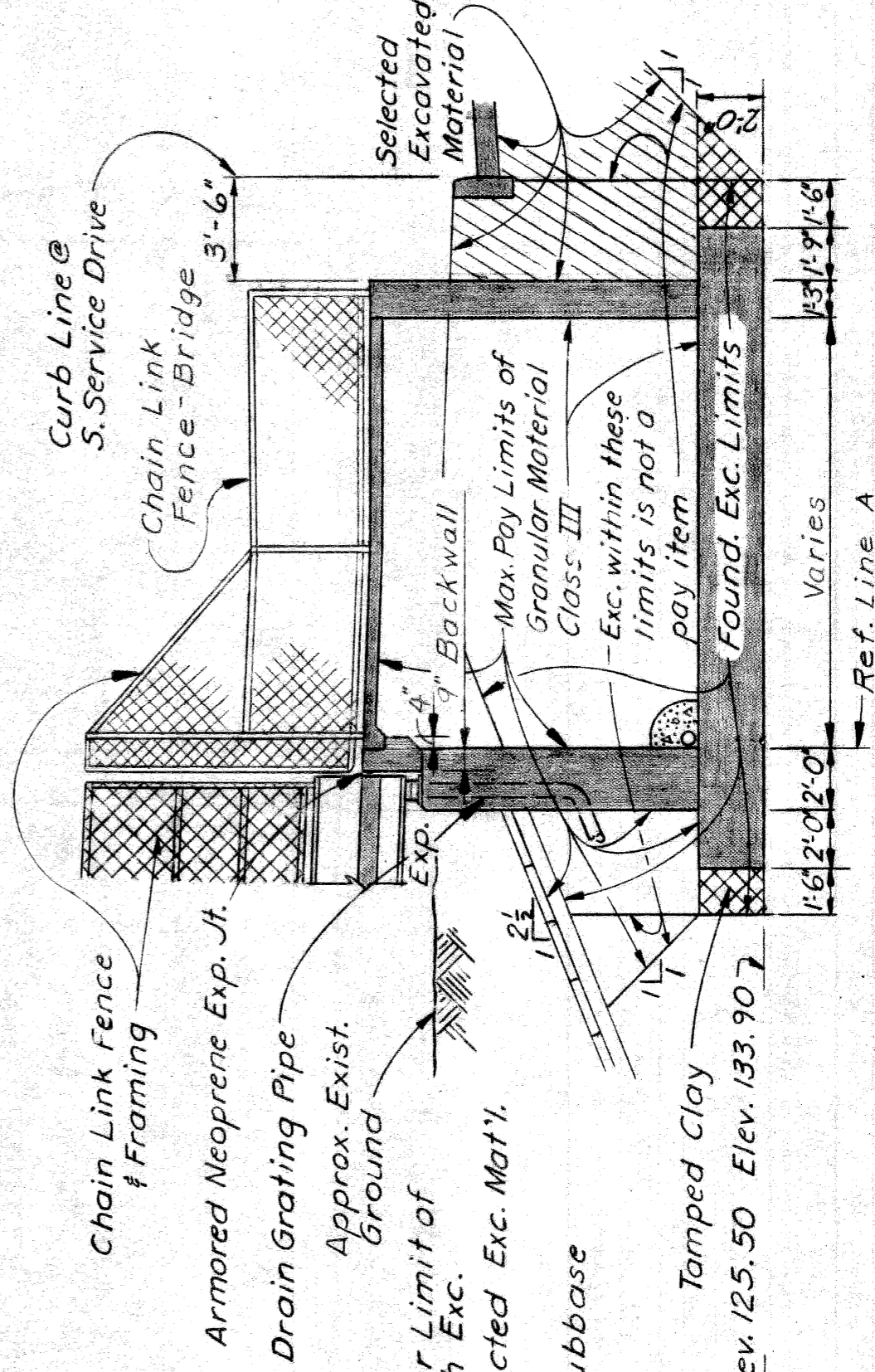
SECTION D-D
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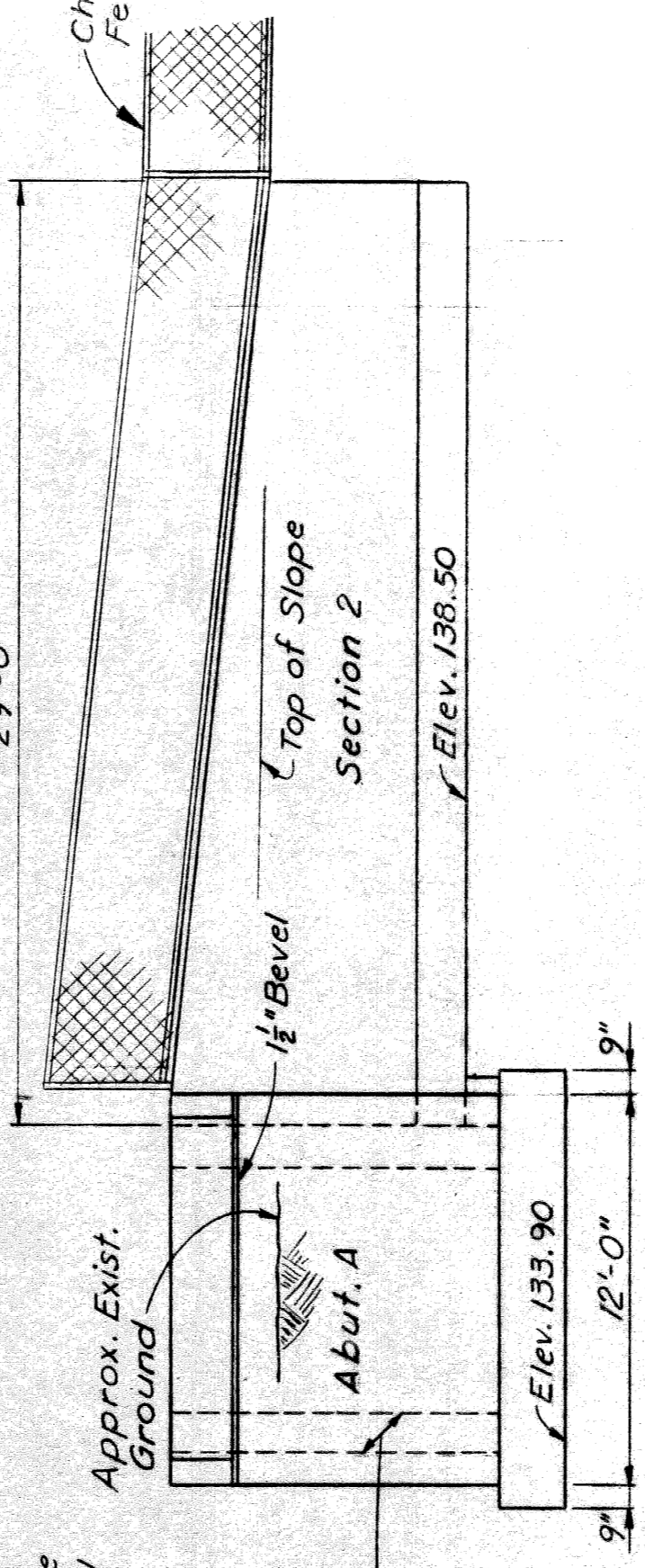
SECTION B-B
Scale: $\frac{3}{8}$ " = 1'-0"



SECTION G-G
Scale: $\frac{3}{8}$ " = 1'-0"



SECTION E-E
Scale: $\frac{3}{8}$ " = 1'-0"



ELEVATION AT RAMP A RETAINING WALL
Scale: $\frac{3}{8}$ " = 1'-0"

GENERAL NOTES

The design of this structure is based on the M.D.S.H. Specifications for the Design of Highway Bridges, 1958 edition and current A.S.H.O. Standard Specifications for Highway Bridges.

Live Load - Concrete Slab & Floor Beams - 85 p.s.f.

Girders - Alternate Live Loading - One 5 Ton Truck plus impact.

The top of slab is parallel to the vertical curve and its tangents.

For details of Slope Protection, see Standard Sheet SP2.

Tamped Clay and Selected Excavated Material are incidental to Unclassified Excavation.

Granular Material - Class III, Compacted in place is 200 Cu. Yds. See Road Plans.

PLANS PREPARED BY
CITY OF DETROIT
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BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: [Signature]
STRUCTURAL ENGINEER

JOB NO. PW 99041

NO.	DESCRIPTION	DATE	BY

DESIGN SUPERVISING ENGINEER
APPROVED: [Signature]
DESIGN ENGINEER

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

CLARENDON AVE. PEDESTRIAN BRIDGE
OVER THE JEFFRIES FREEWAY IN DETROIT

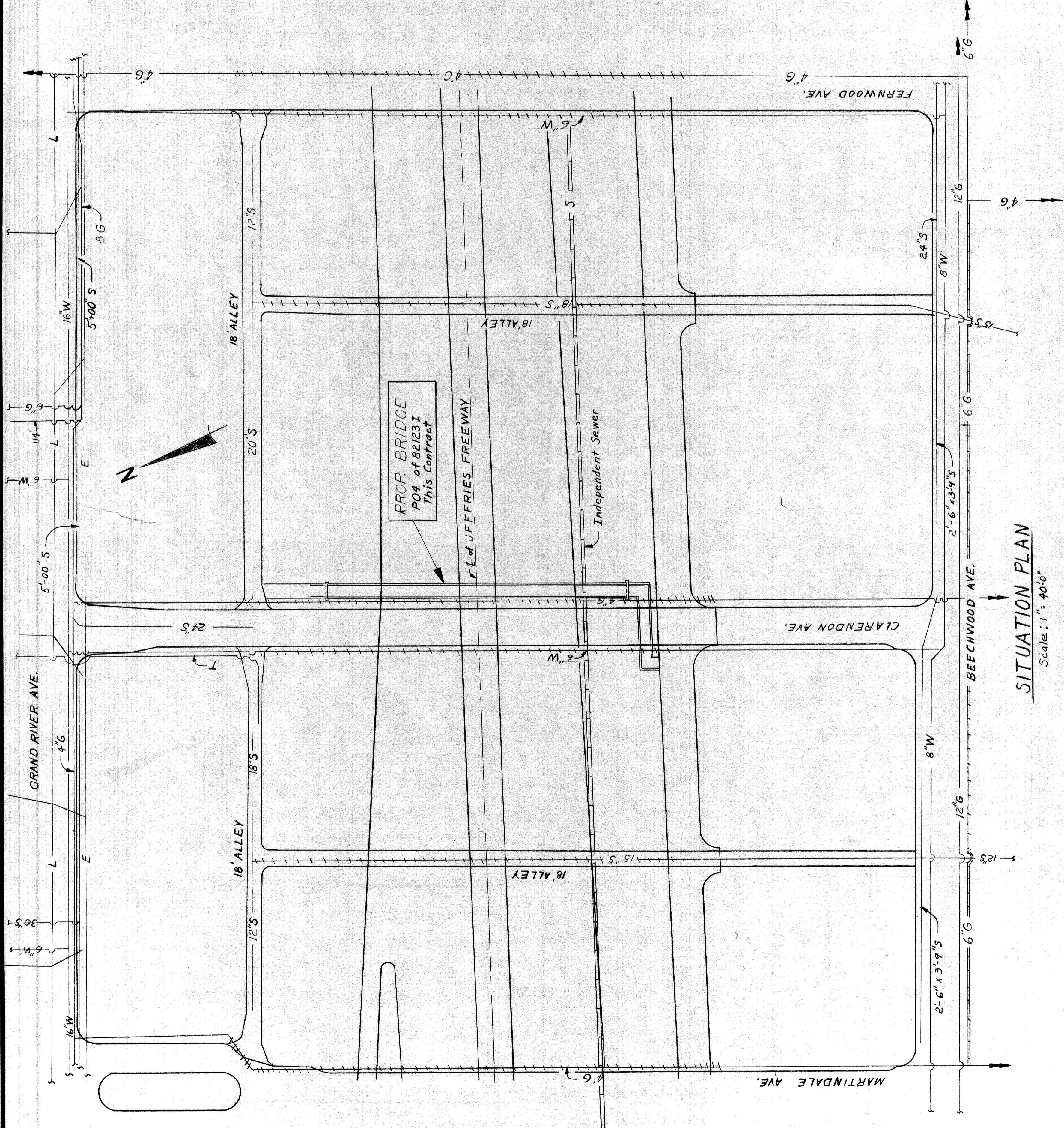
CITY OF DETROIT

SQUAD BOSS	DRAWN BY	CHECKED BY	DATE

GENERAL PLAN OF STRUCTURE

SHEET 5 OF 16

PO4 of 821231



LEGEND

UTILITY	Existing	New Work by Others	New Work by Contractor
Michigan Consolidated Gas Co.	— G —	— G —	— G —
Detroit Water Department	— W —	— W —	— W —
Expy. and City of Detroit Sewers	— S —	— S —	— S —
Michigan Bell Telephone Co.	— T —	— T —	— T —
Detroit Edison Co.	— E —	— E —	— E —
Public Lighting Commission	— L —	— L —	— L —

NOTE:
 Bridge construction and utility alterations are included in package contract for control section 82123 I.
 The contractor shall locate all active underground utilities prior to starting work and shall conduct his operations in such a manner as to insure that those utilities not requiring relocation will not be disturbed.

SITUATION PLAN
 Scale: 1" = 40'-0"

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 CLARENDON AVE. PEDESTRIAN BRIDGE
 OVER THE JEFFRIES FREEWAY IN DETROIT

EXISTING UTILITIES AND PROPOSED ALTERATIONS

NO.	DESCRIPTION	DATE	BY

REVISIONS

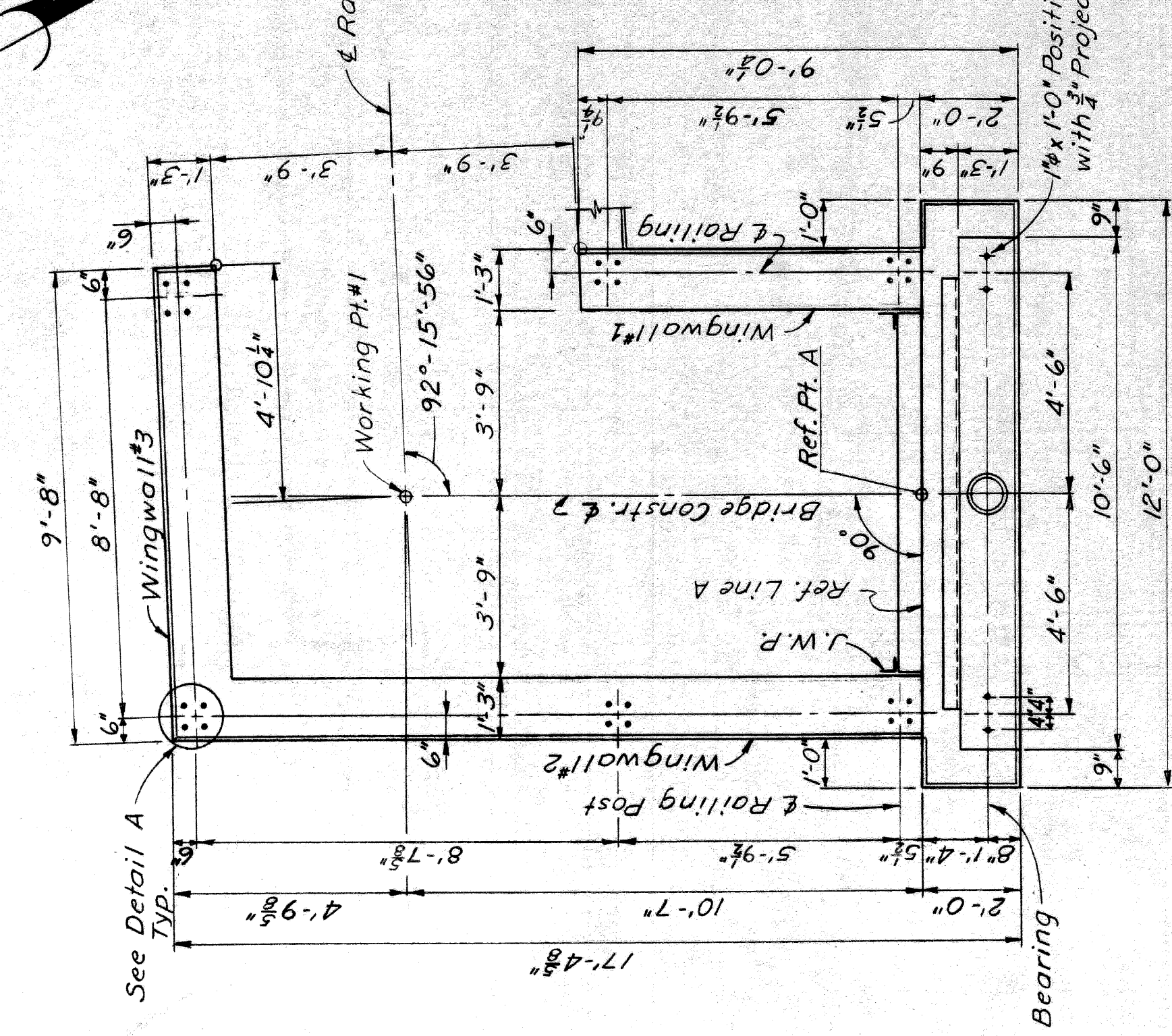
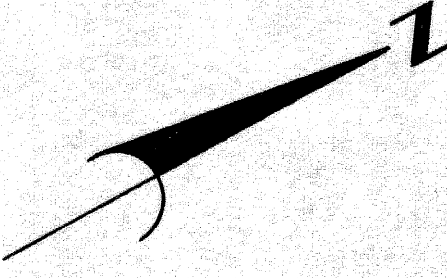
NO.	DESCRIPTION	DATE	BY

CITY OF DETROIT
 SHALL BEISS 102175
 DRAWN BY R. ROSIK 3-63
 CHECKED BY R.H. 6 OF 16
 SHEET 6 OF 16
P04 of 82123 I

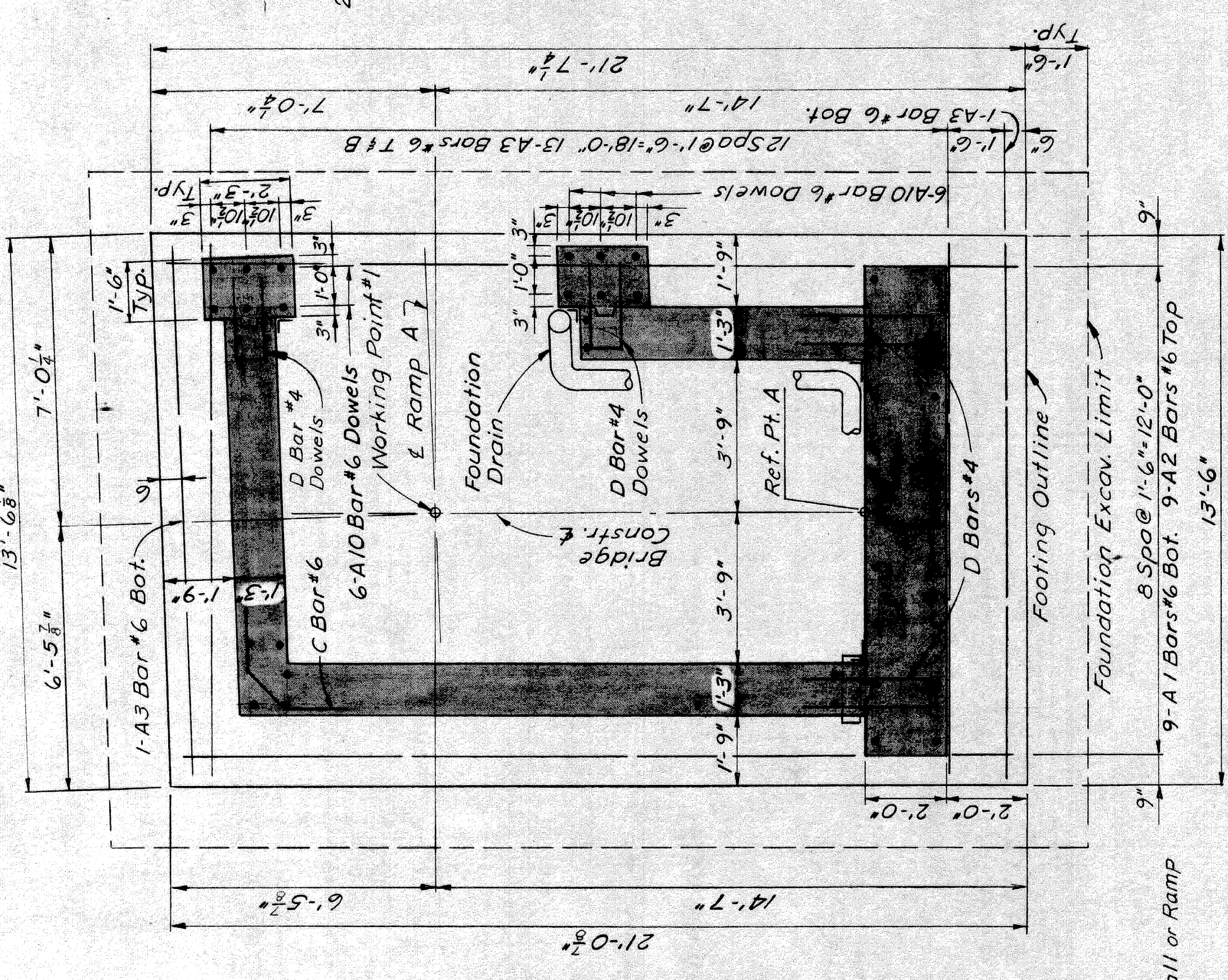
PLANS PREPARED BY
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 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *[Signature]*
 PROFESSIONAL ENGINEER

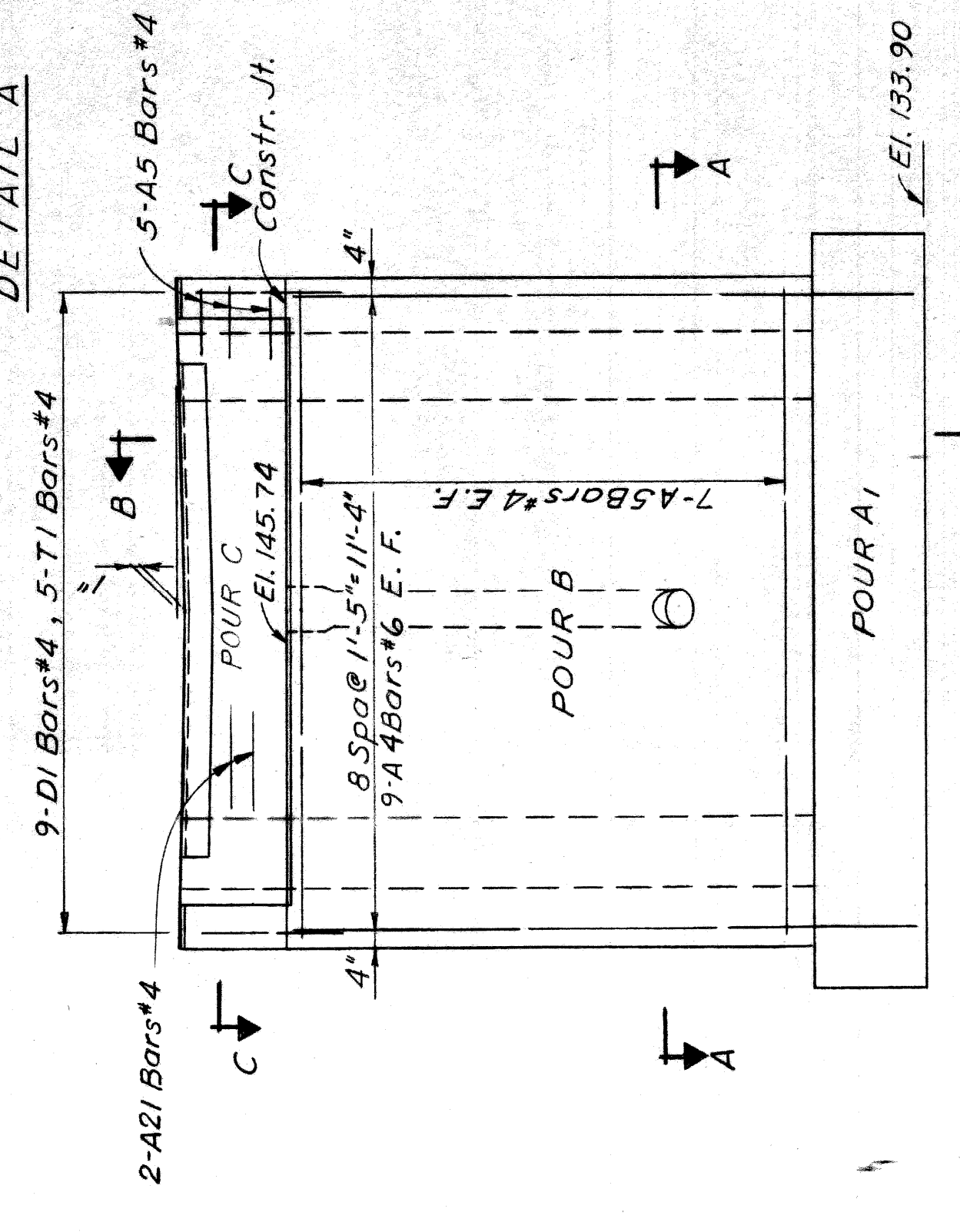
JOB No. **PW 990 (4)**



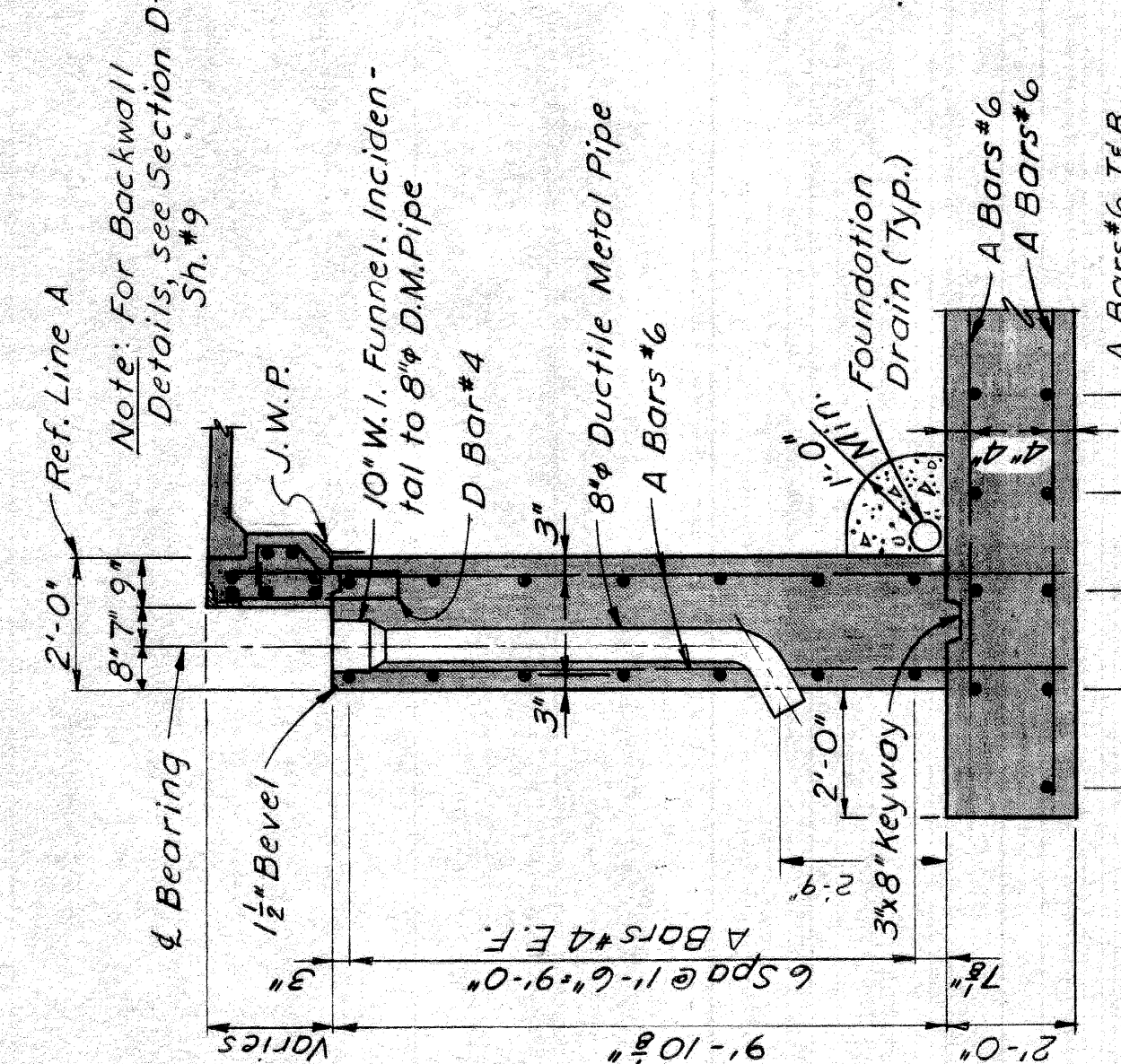
PLAN OF TOP



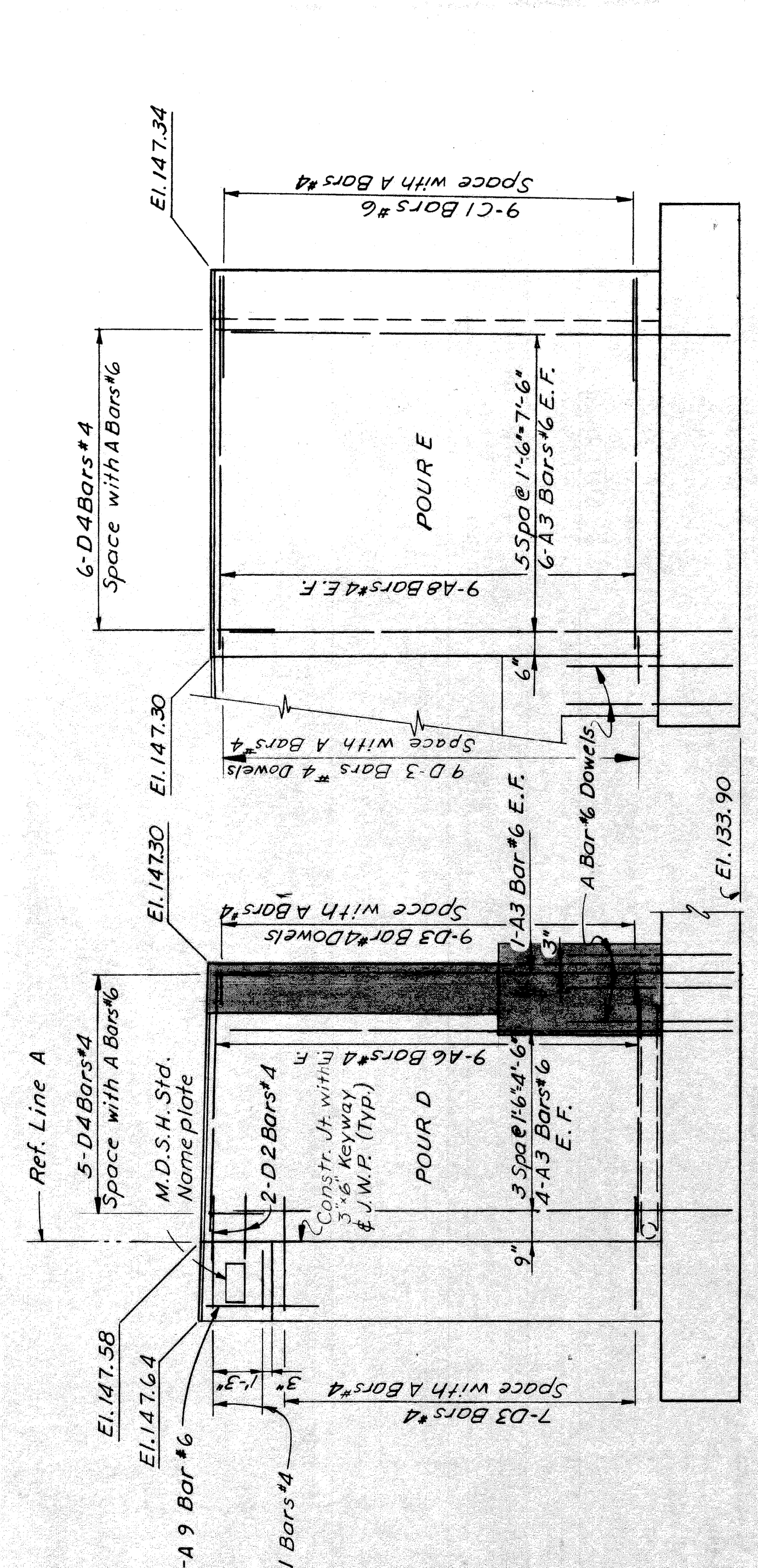
SECTION A-A



DETAIL A

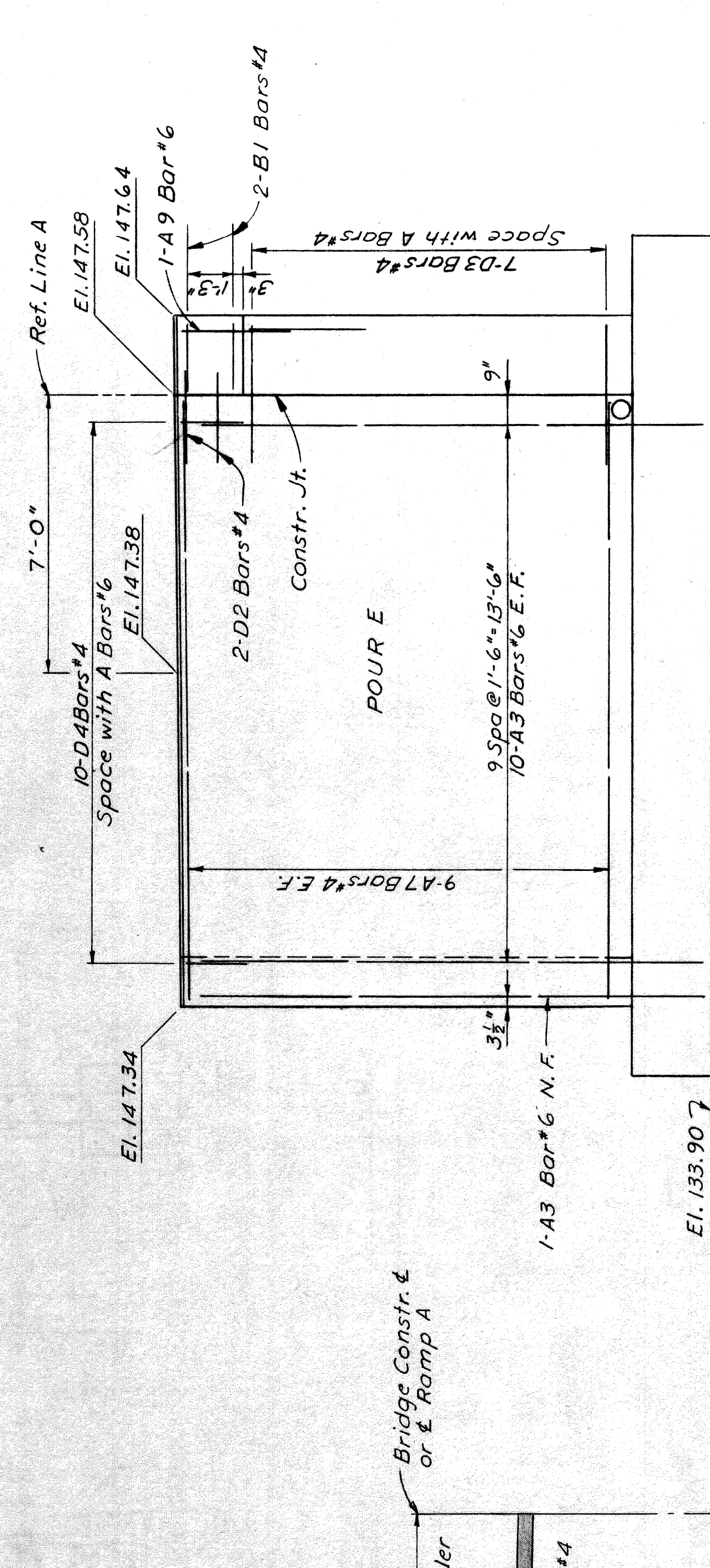


SECTION B-B



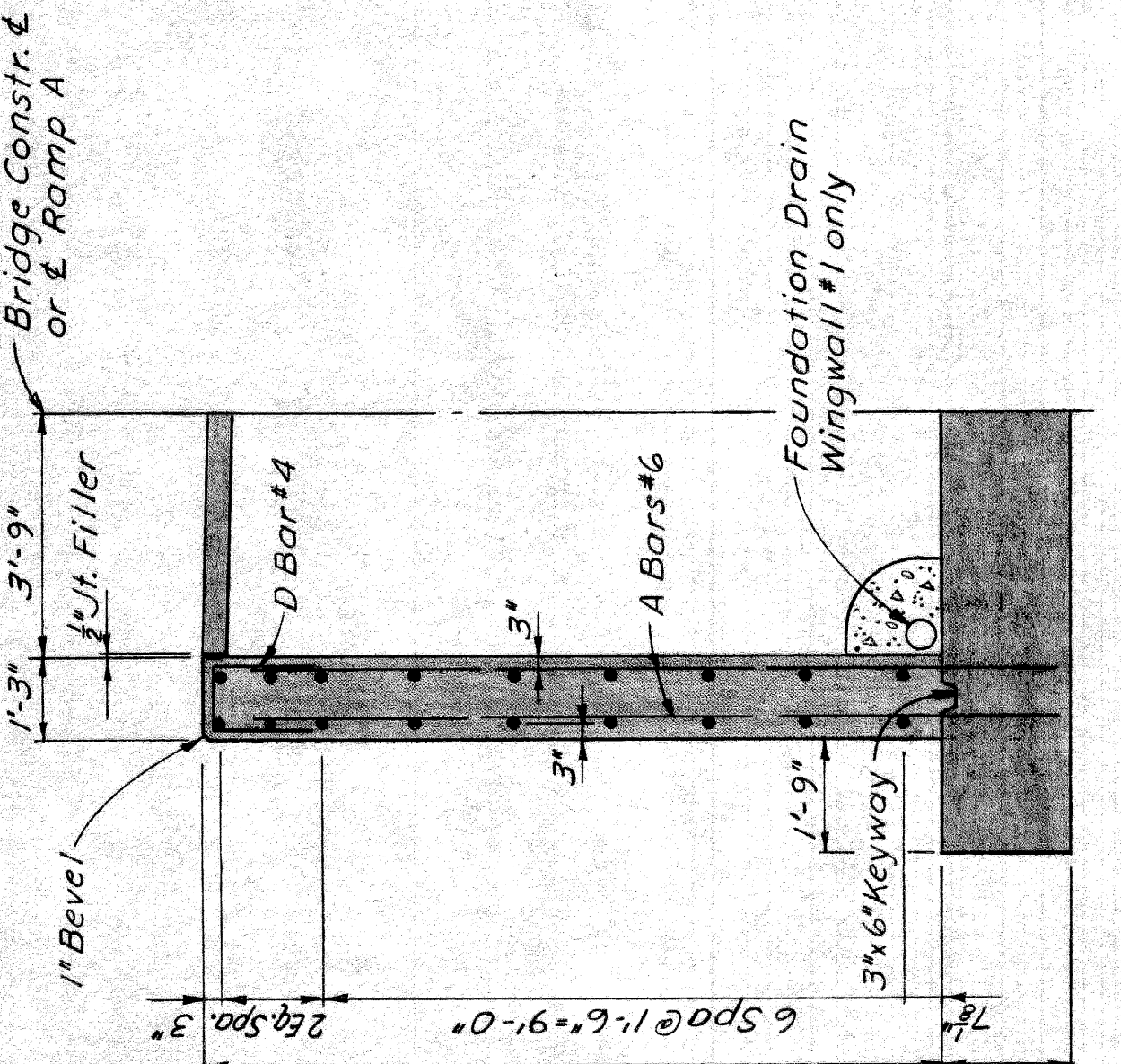
ELEVATION - WINGWALL #1

ELEVATION - WINGWALL #3

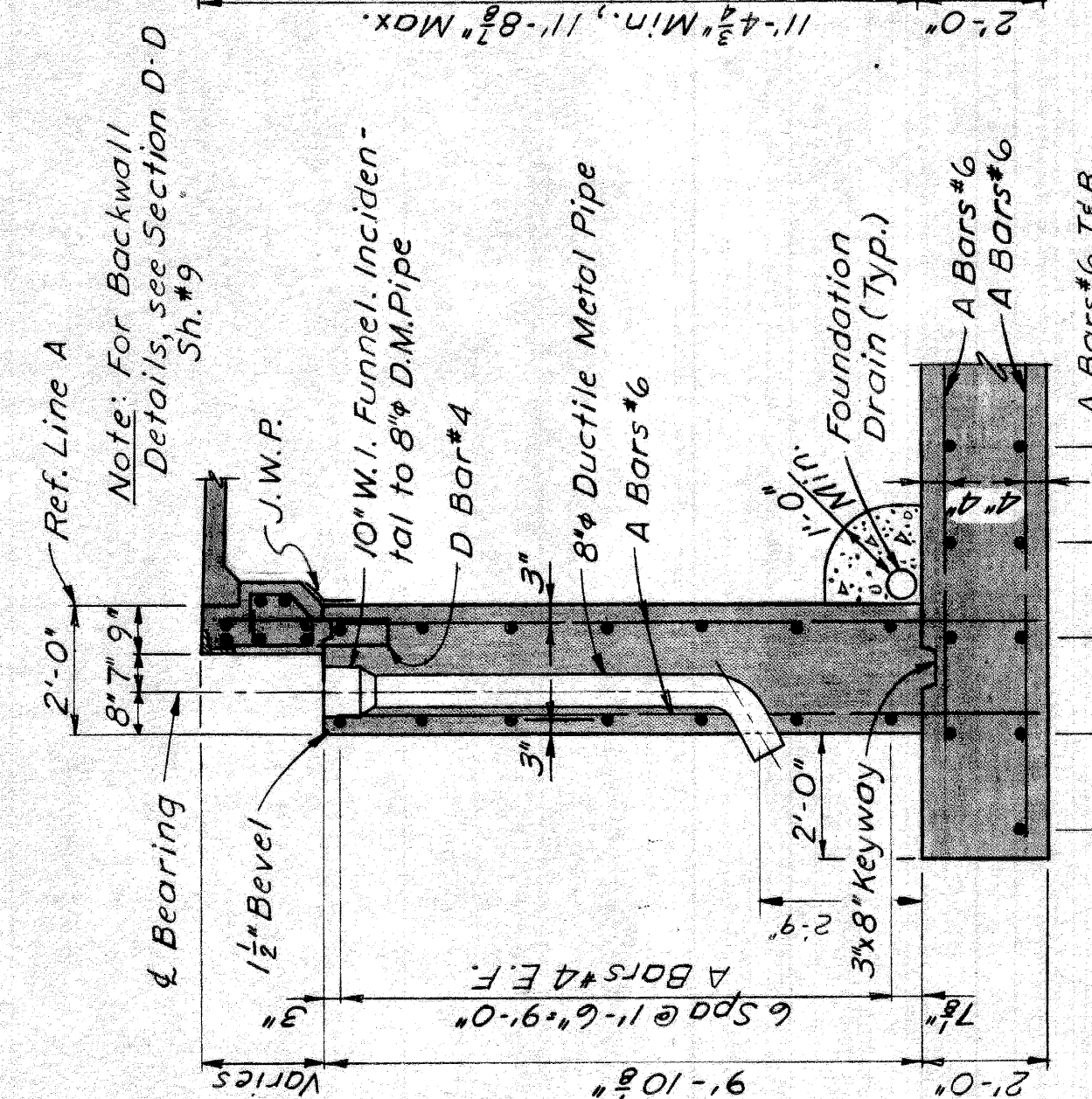


ELEVATION - WINGWALL #2

Note:
Max. Average Foundation Pressure D.L. only 1250 p.s.f.
Max. Foundation Pressure D.L. + L.L. 2400 p.s.f.



TYPICAL SECTION THRU WINGWALLS



ELEVATION

Note: For Section C-C, see Sh. #9

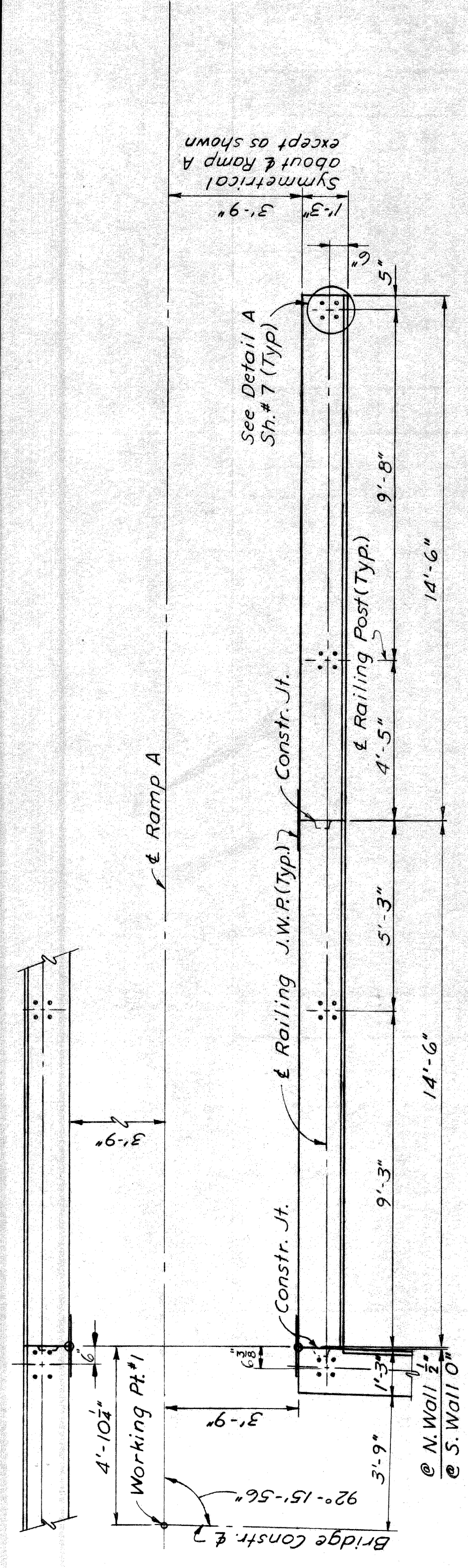
ABUTMENT A DETAILS

NO.	DESCRIPTION	DATE	BY

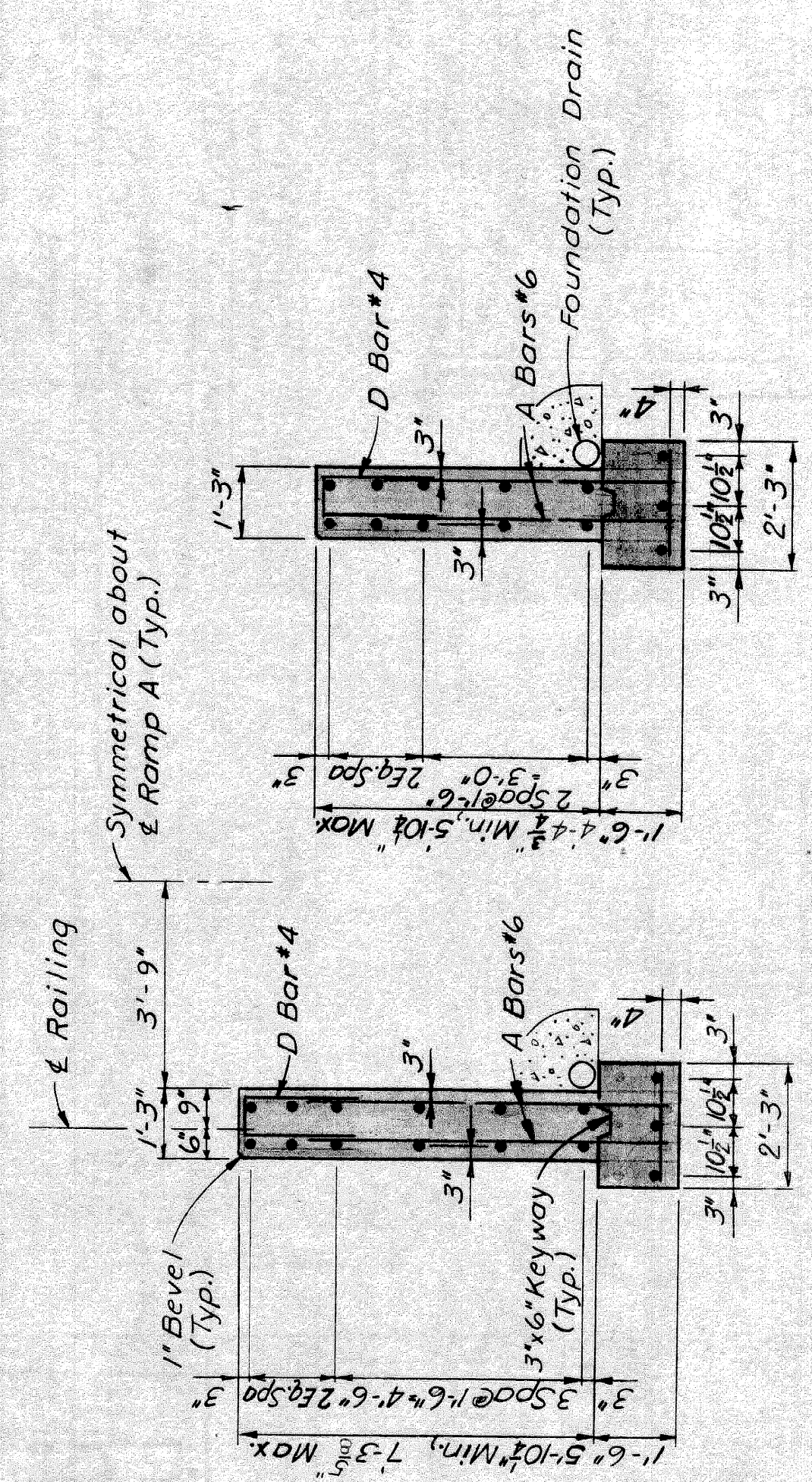
PLANS PREPARED BY
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BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *H. Conroy* JUNIOR
REGISTERED PROFESSIONAL ENGINEER (PW 9904)

JOB NO. _____
SHEET 7 OF 16



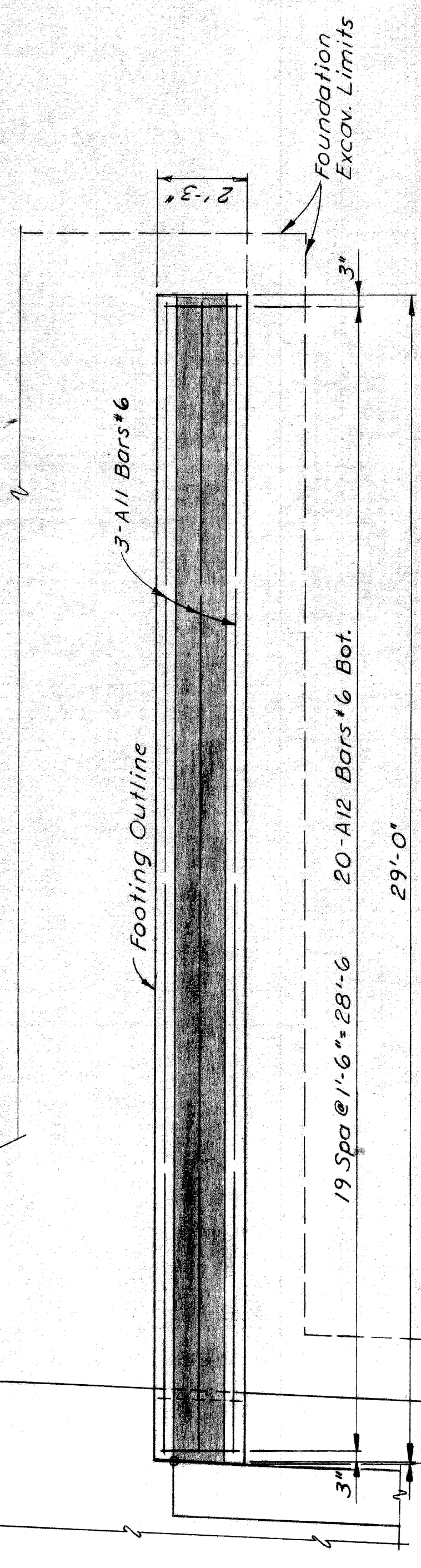
PLAN OF TOP
N. Wall shown, S. Wall similar except as shown.



ELEVATION
N. Wall shown, S. Wall similar

SECTION F-F
SECTION G-G

ELEVATION
N. Wall shown, S. Wall similar



FOOTING PLAN
N. Wall shown, S. Wall similar

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

ABUTMENT A
RAMP WALLS

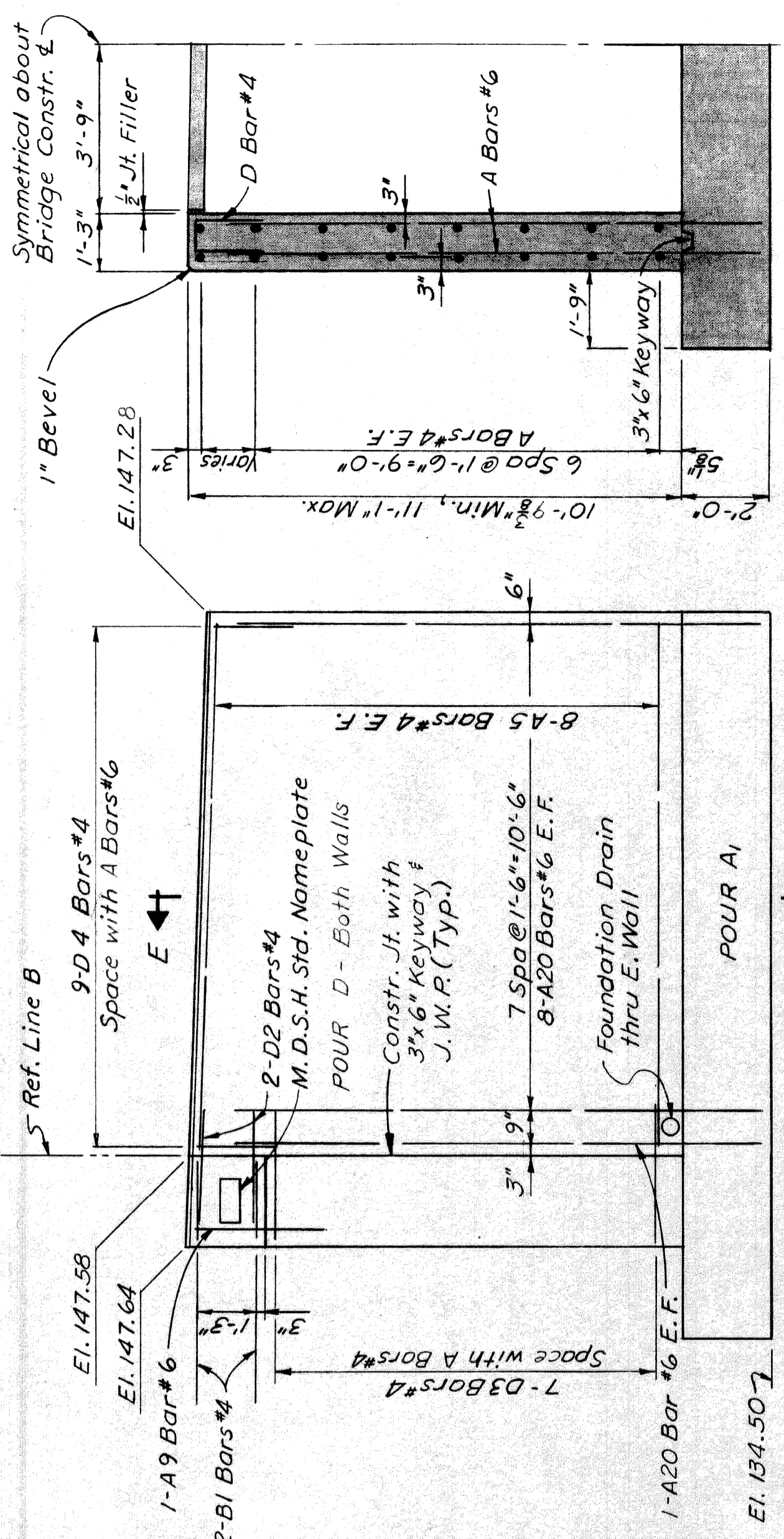
PLANS PREPARED BY
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CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *H. Conrad*
REGISTERED PROFESSIONAL ENGINEER

JOB NO. PWH 69014

NO.	DESCRIPTION	DATE	BY

REVISIONS	DATE	BY



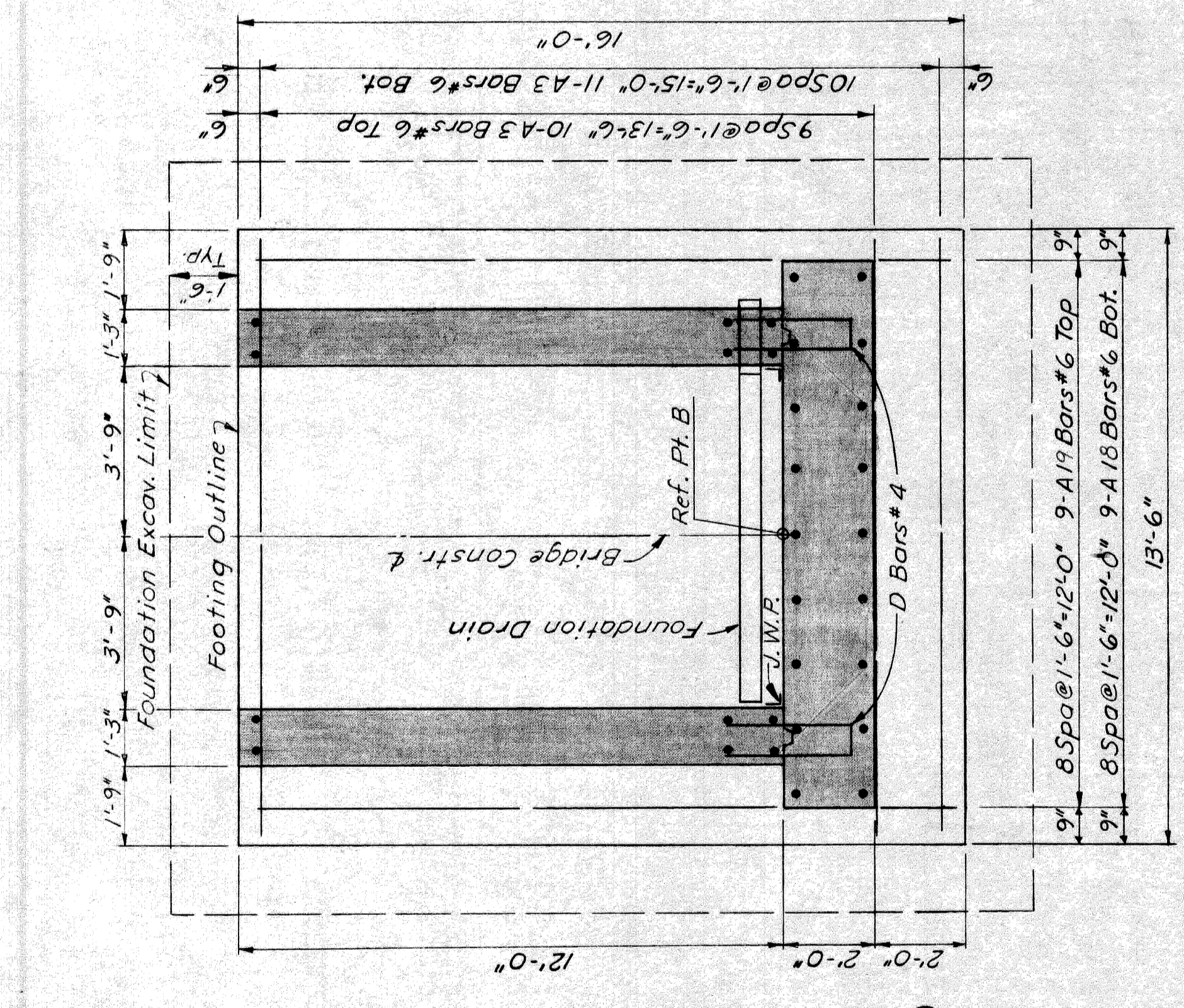
SECTION E-E

WINGWALL ELEVATION
Note: E. Wingwall shown,
W. Wingwall Opp. Hand

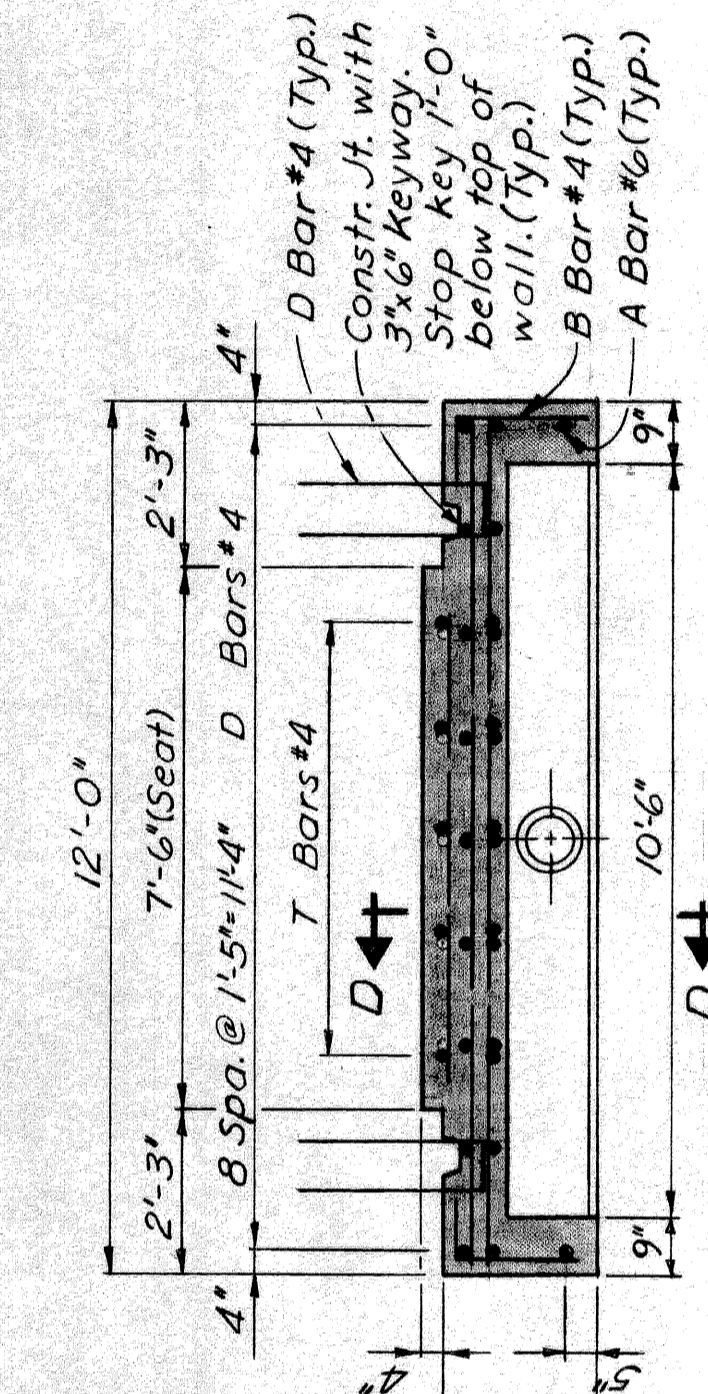
Pour	Location	Abut. A	Abut. B	Total
A1	Footing	21.3	16.0	37.3
A2	Footing	8.0	—	8.0
B	Abutment Stem	8.8	8.2	17.0
C	Backwall	0.8	0.8	1.6
D	Wingwall Stem	3.8	12.1	15.9
E	Wingwall Stem	12.7	—	12.7
F	Ramp Wall Stem	8.8	—	8.8
G	Ramp Wall Stem	6.9	—	6.9
Total Gr. A (6A)		45.3		Cu. Yds.
Total Gr. A (6AA)		62.9		Cu. Yds.

Item	Unit	Abut. A	Abut. B	Total
Unclassified Excavation	Cu. Yds.	222	118	340
Protective Sealant Coating for Conc.	Sq. Ft.	13	13	26
Clear Protective Coating for Substr. Conc.	Sq. Yd.	6	5	11
Low Temp. Protection for Substr. Conc.	Cu. Yds.	71.0	37.2	108.2
Joint Waterproofing	Sq. Ft.	80	43	123
8" Ductile Metal Pipe	Lin. Ft.	8	8	16
Foundation Drain	Lin. Ft.	50	9	59

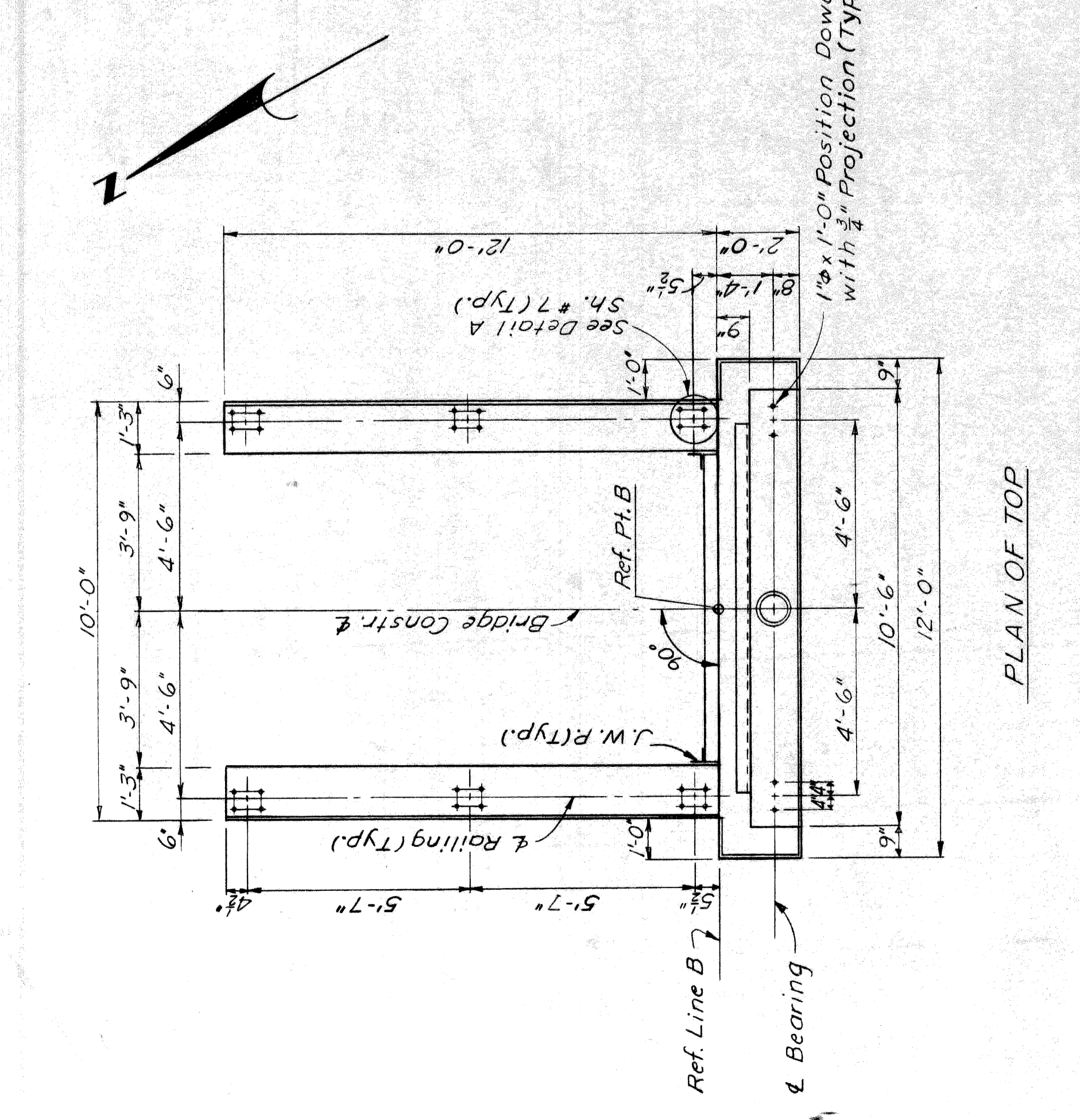
GENERAL NOTES
J.W.P. denotes joint waterproofing.
M.F., F.F., E.F. denotes face and each face respectively.
For bevel, mousing, and name plate mounting details, see Std. Sh. R16.
Anchor Bolts and Position Dowels shall be set accurately to a template.
The Project Engineer shall adjust the spacing of reinforcing steel as required to permit placing of anchor bolts, position dowels and downspout.
The tops of Abutments A and B shall be given an application of protective sealant coating for concrete prior to placing masonry plates.
Cover face of abutment wall under beams with clear protective coating for concrete to 6" below finished grade.



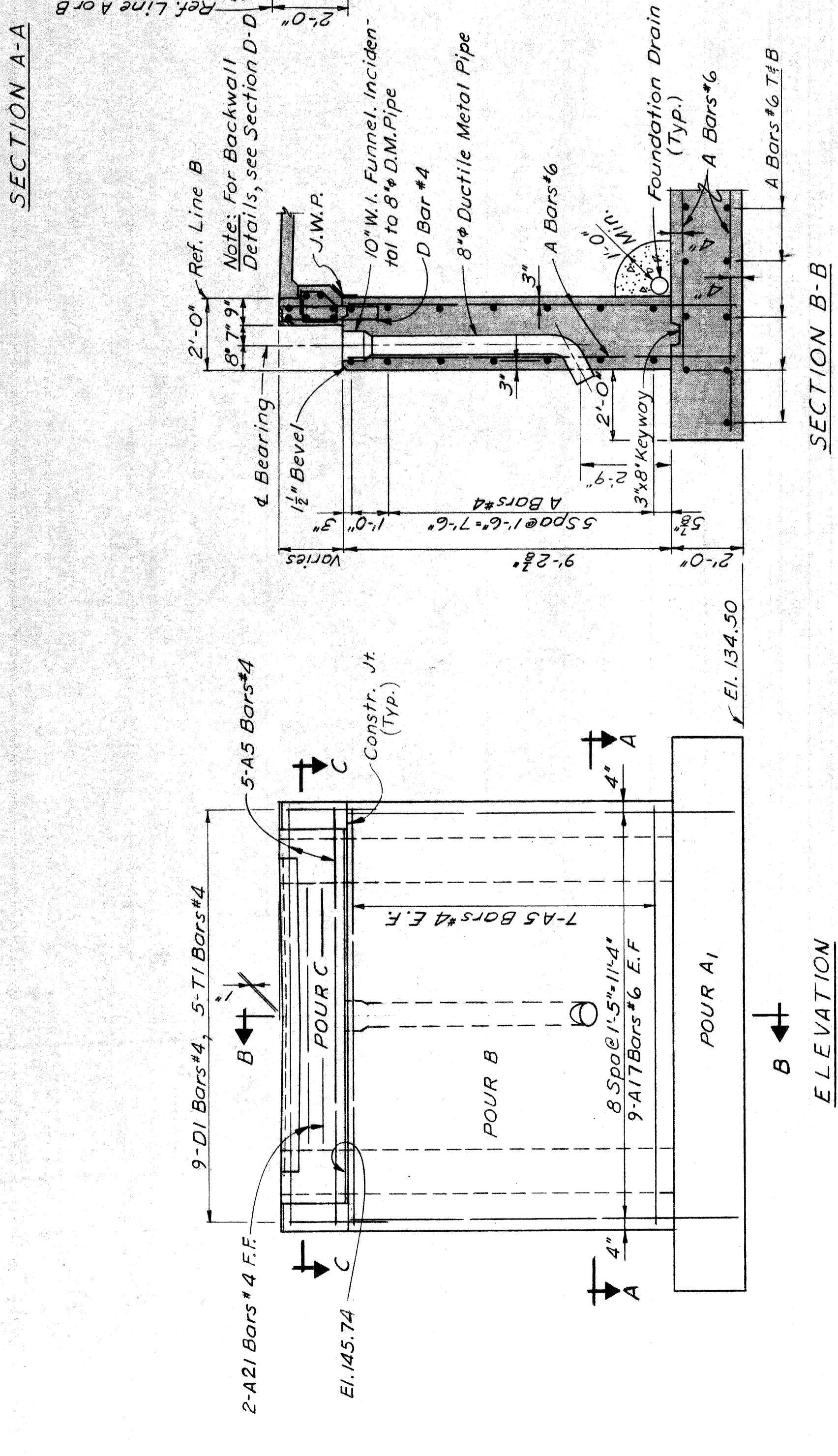
SECTION A-A



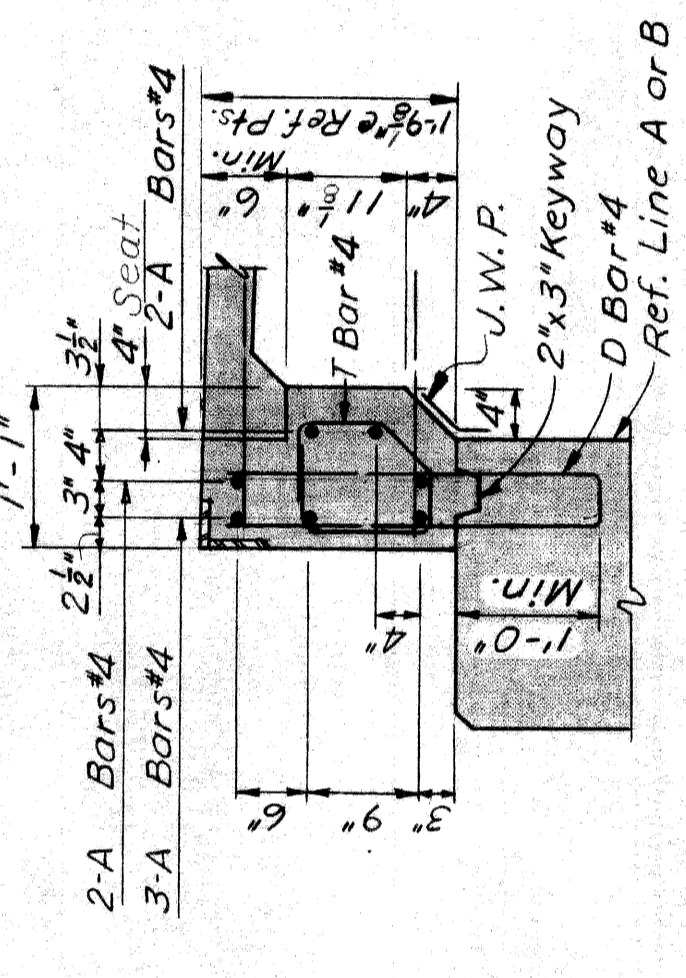
SECTION C-C



PLAN OF TOP



SECTION B-B



SECTION D-D

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

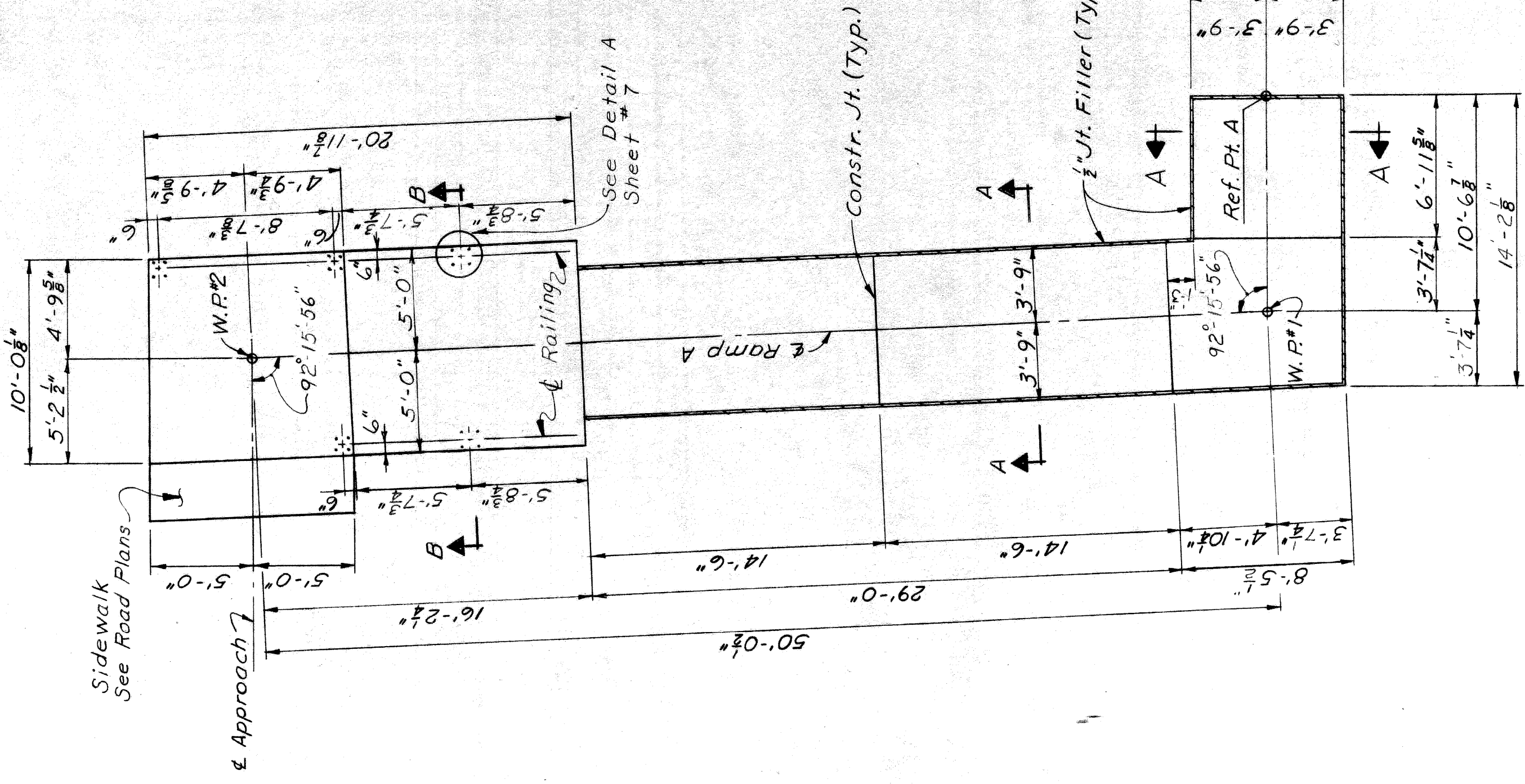
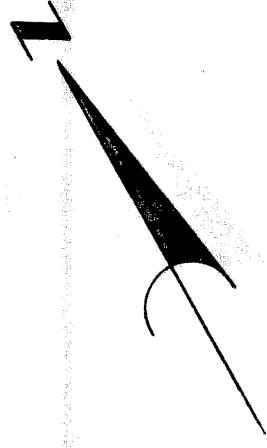
ABUTMENT B DETAILS

PLANS PREPARED BY
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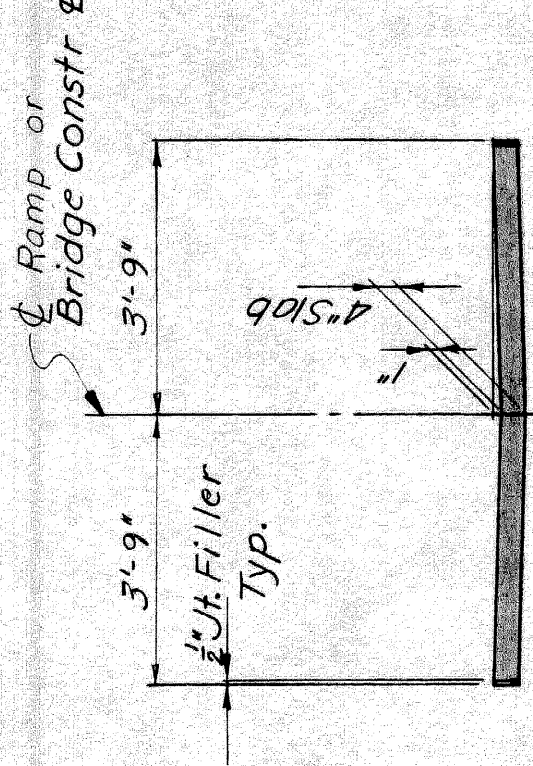
NO.	DESCRIPTION	DATE	BY

APPROVED: *[Signature]*
STRUCTURAL ENGINEER
JOB No. PW 9904
SHEET 9 OF 16

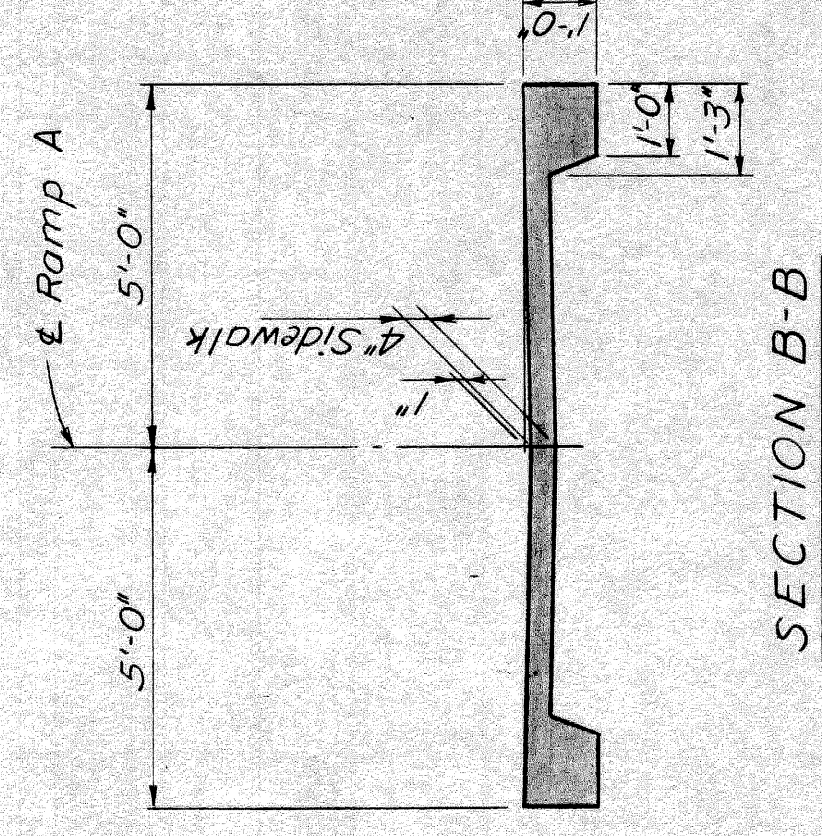
POA of 821231



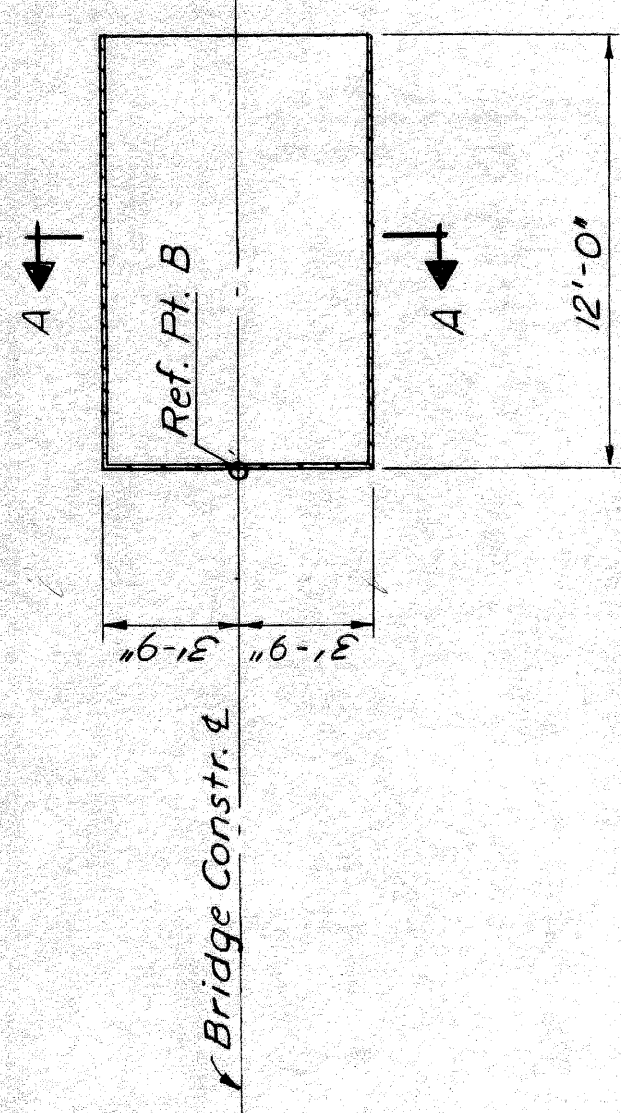
PLAN - RAMP A



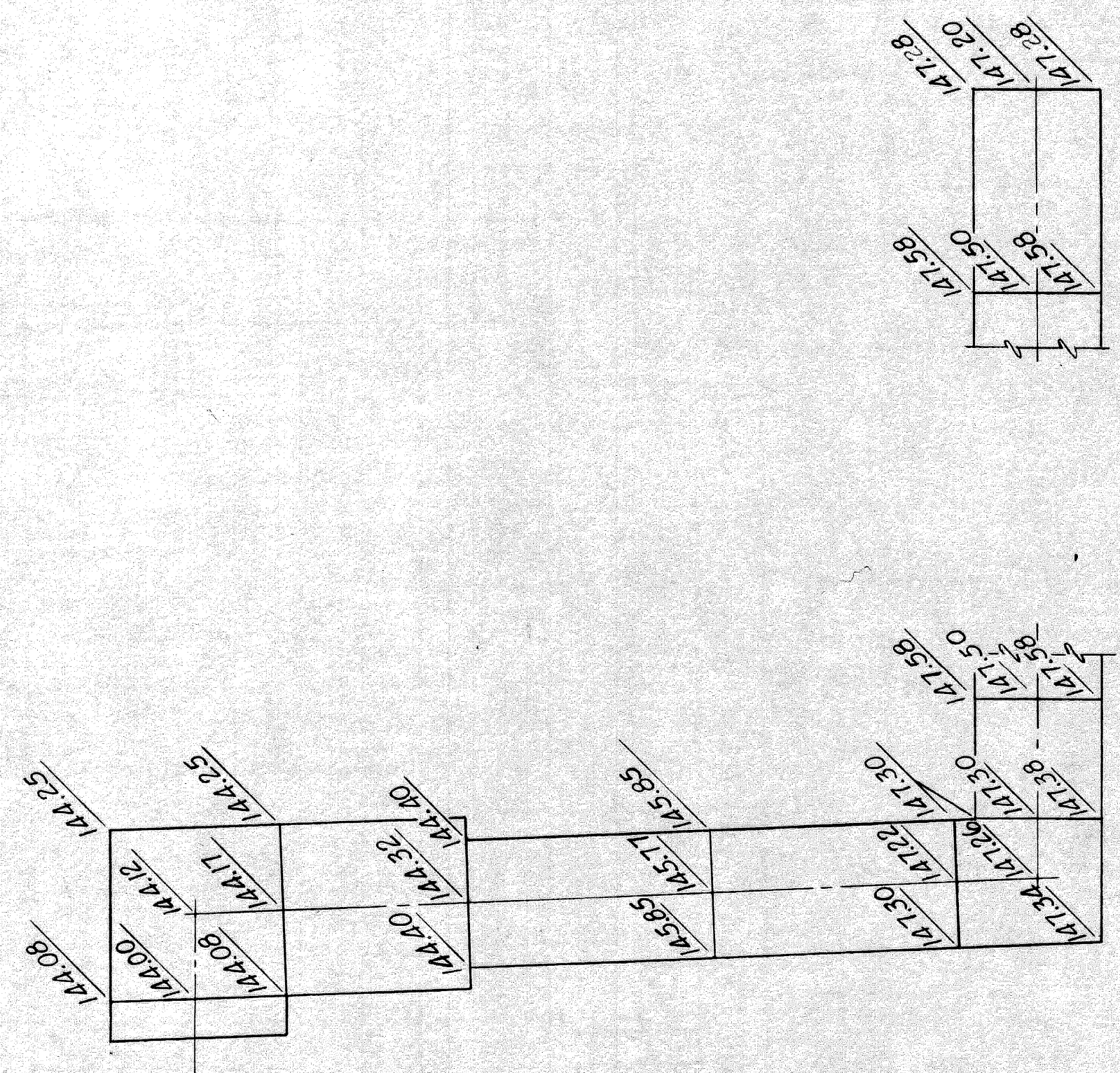
SECTION A-A



SECTION B-B



PLAN - RAMP B



RAMP A
RAMP B
FINISHED TOP OF SLAB ELEVATIONS

CONCRETE QUANTITIES	
Grade A(GAA)	8.7 Cu.Yds.

MISCELLANEOUS QUANTITIES	
1/2" Jt. Filler	43 Sq.Ft.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

RAMP DETAILS

NO.	DESCRIPTION	DATE	BY

APPROVED: *[Signature]* DISTRICT ENGINEER

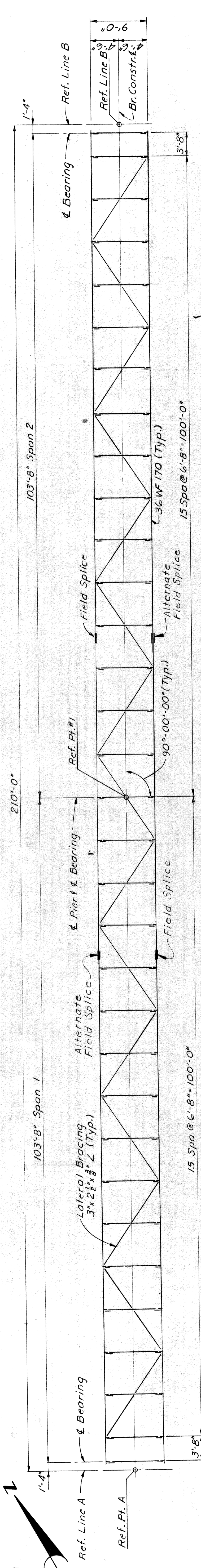
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOB NO. *[Blank]*
DATE *[Blank]*
BY *[Blank]*

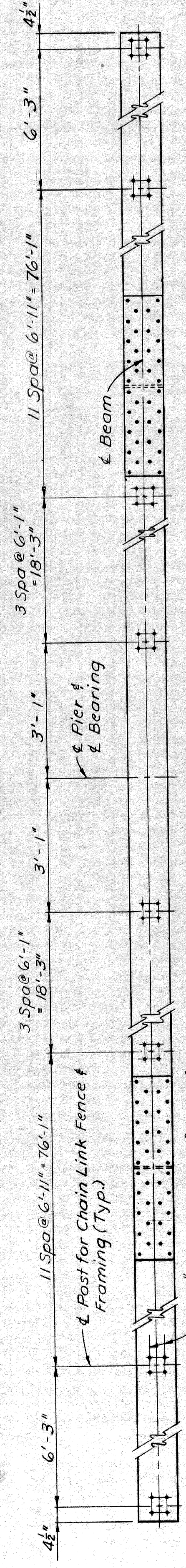
PROJECT NO. *[Blank]*

SQUAD NO.	NO. 113
DRAWN BY	E. HARRIS
CHECKED BY	M. G. SMITH
SHEET NO.	5-69
OF	76

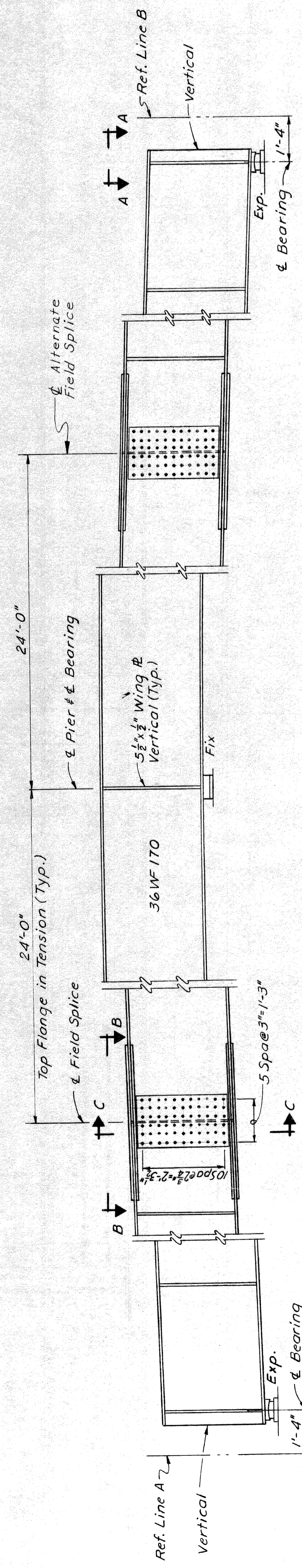
P64 of 821231



FRAMING PLAN



PLAN OF TOP



ELEVATION

Deflection & Camber are Symmetrical about Pier

4'-6" x 12" x 3/8" R Top and Bolt

4'-6" x 4 1/2" x 3/8" R Top and Bolt

2'-6" x 1'-6" x 3/8" R

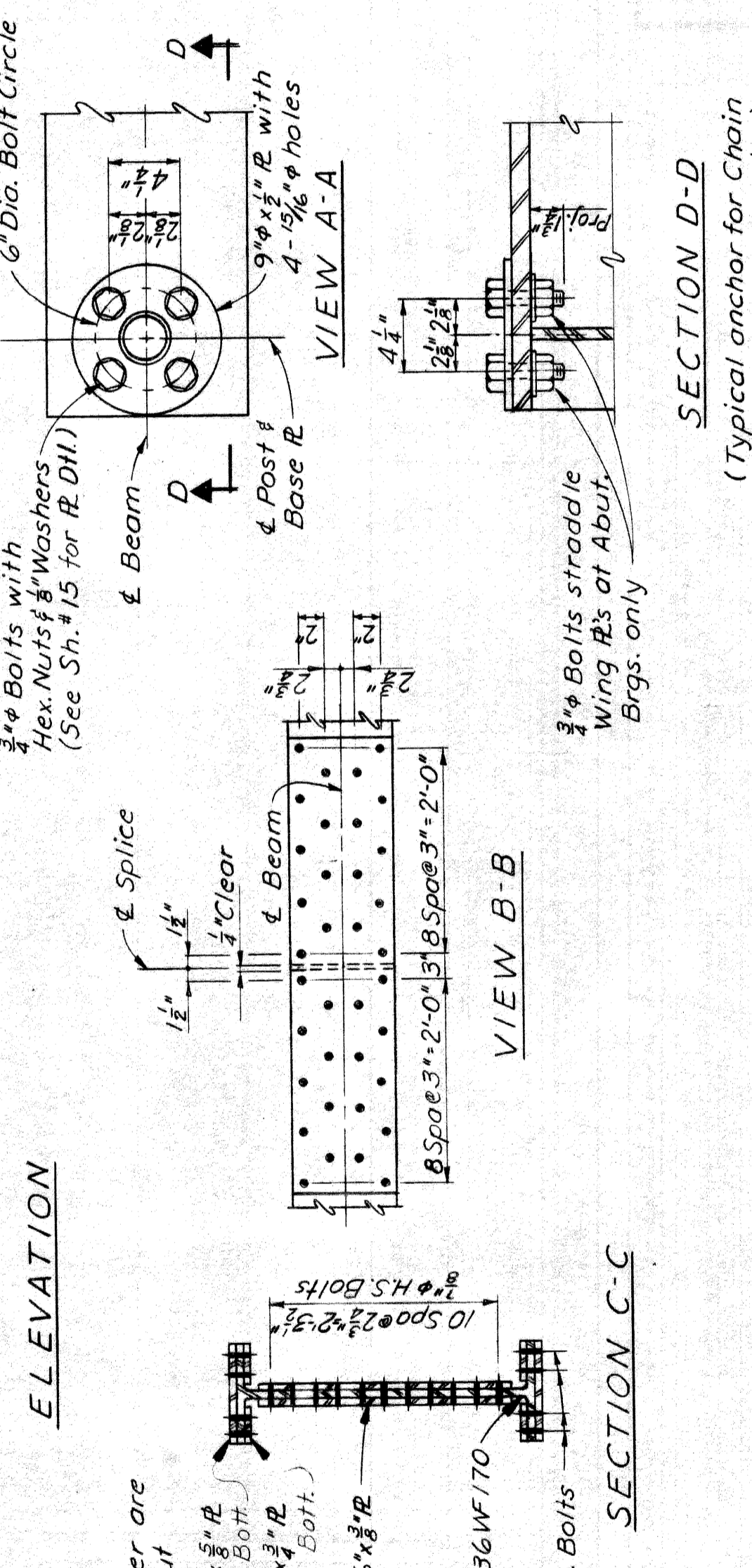
10 Spaced 2 1/2" x 3" H.S. Bolts

36 WF 170

SECTION C-C

X/L	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	1.0
Ord.	0	1/16"	3/16"	4/16"	4 1/2"	4 1/2"	4 1/2"	4 1/2"	3/16"	1/16"	0
ΔD.L.	0	3/4"	1 1/8"	1 7/8"	2 1/8"	2 1/8"	2 1/8"	1 7/8"	1 1/8"	3/4"	0

Note: Camber ordinate includes allowance for structural steel, slab and fencing. ΔD.L. = Deflection due to weight of structural steel, slab and fencing.



STRUCTURAL STEEL NOTES

DESIGN: Michigan Department of State Highways Specifications for the Design of Highway Bridges - 1958 edition and current AASHTO Standard Specifications for Highway Bridges. (Live Load 85 p.s.f. for Slab, Floor Beam and Main Beam or alternate Live Load of one five ton truck plus impact)

FABRICATION: Michigan Department of State Highways Standard Specifications for Road and Bridge Construction - 1967 edition.

SHOP CONNECTIONS: Shall be welded as shown on the plans.

FIELD CONNECTIONS: Shall be welded with 3/4" High Strength Bolts, except as noted.

CAMBER: The beams are to be cambered as shown on the camber diagram. Camber is to be measured with the beam lying on its side. Allowable camber tolerance for rolled beams is ± 1/4". Heating is to be used, if necessary, to assure camber permanency within the above tolerance.

ANCHOR BOLTS: Position Dowels and Anchor Bolts (including nuts and washers) shall be galvanized in accordance with ASTM Designation A153. All steel material used for bearings, with exception of portion welded to beams, shall be galvanized in accordance with ASTM Designation A123. Galvanizing shall be applied after fabrication of bearing. Mill Scale and foreign material shall be removed prior to galvanizing.

REWORKING: Where reaming of holes for field connections is required, such holes shall be sub-punched or sub-drilled & smaller than the finished hole.

STEEL: All structural steel shall be unpainted ASTM Designation A588. Steel in anchor bolts may be ASTM Designation A307.

QUANTITIES

Elastomeric Bearing Pads	3 Sq. Ft.
Gray Iron or Ductile Iron	670 Lbs.
Structural Steel	84450 Lbs.
Bronze	80 Lbs.
Total Structural Steel - Furnishing & Fabricating	85200 Lbs.
Total Structural Steel - Erection	85200 Lbs.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

STRUCTURAL STEEL DETAILS

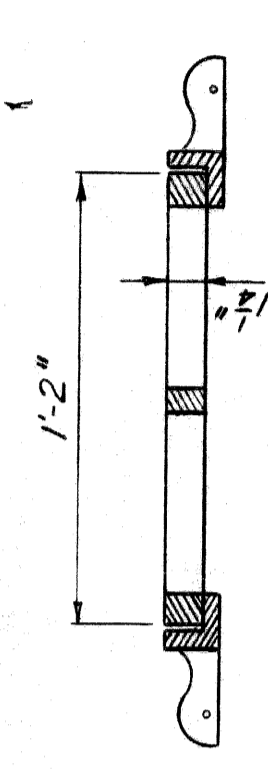
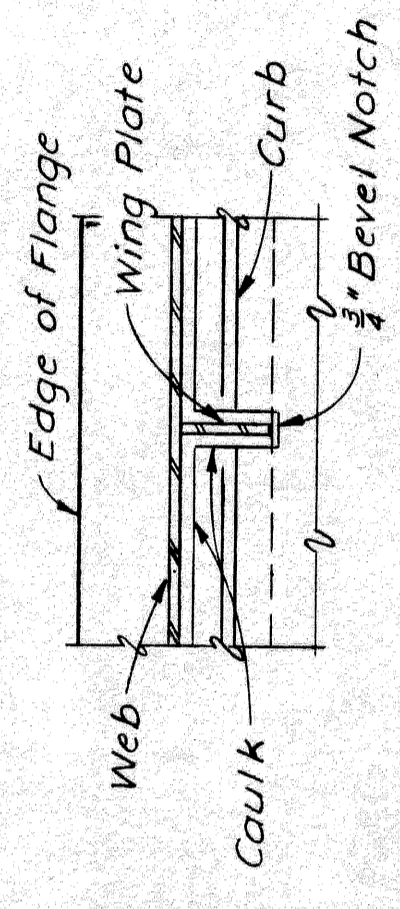
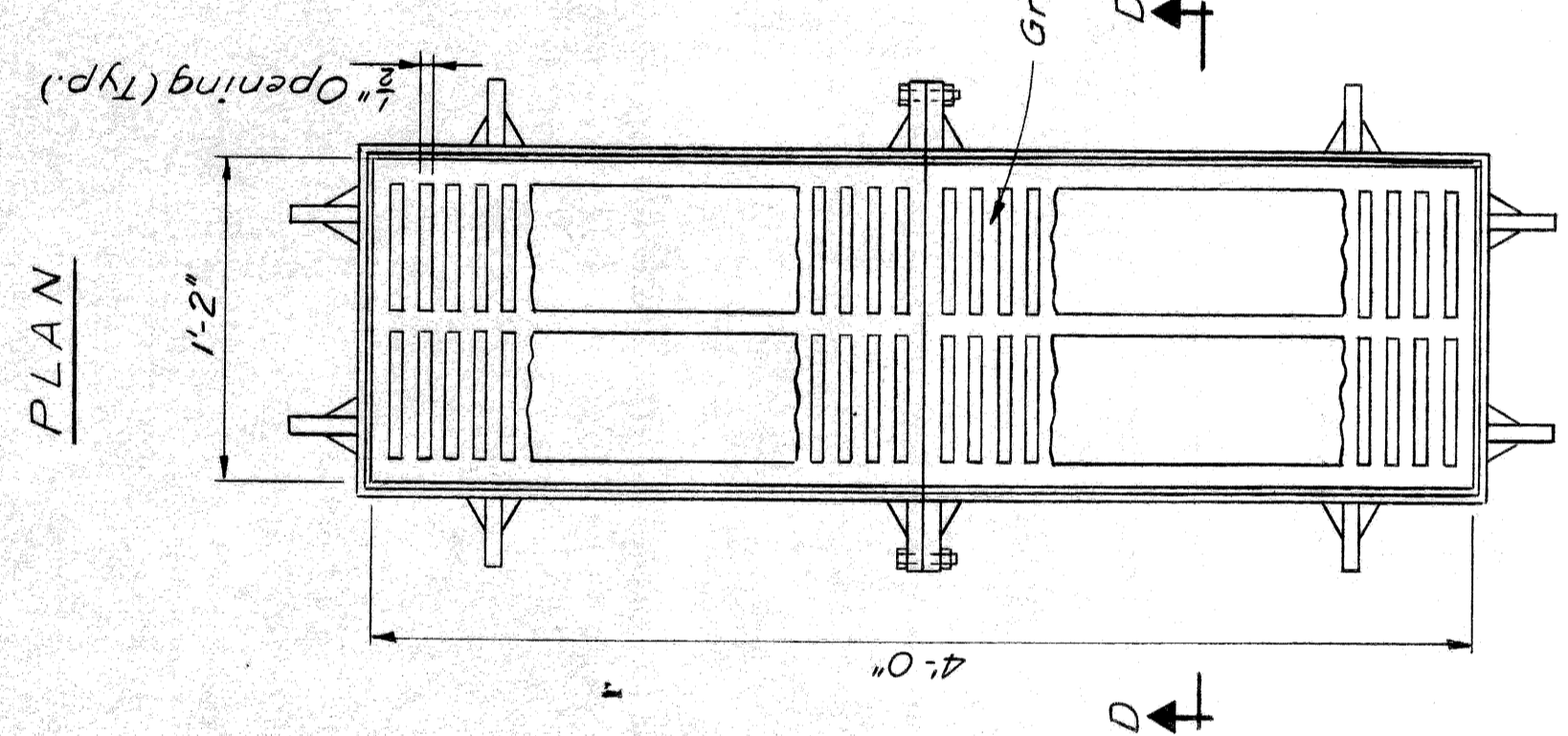
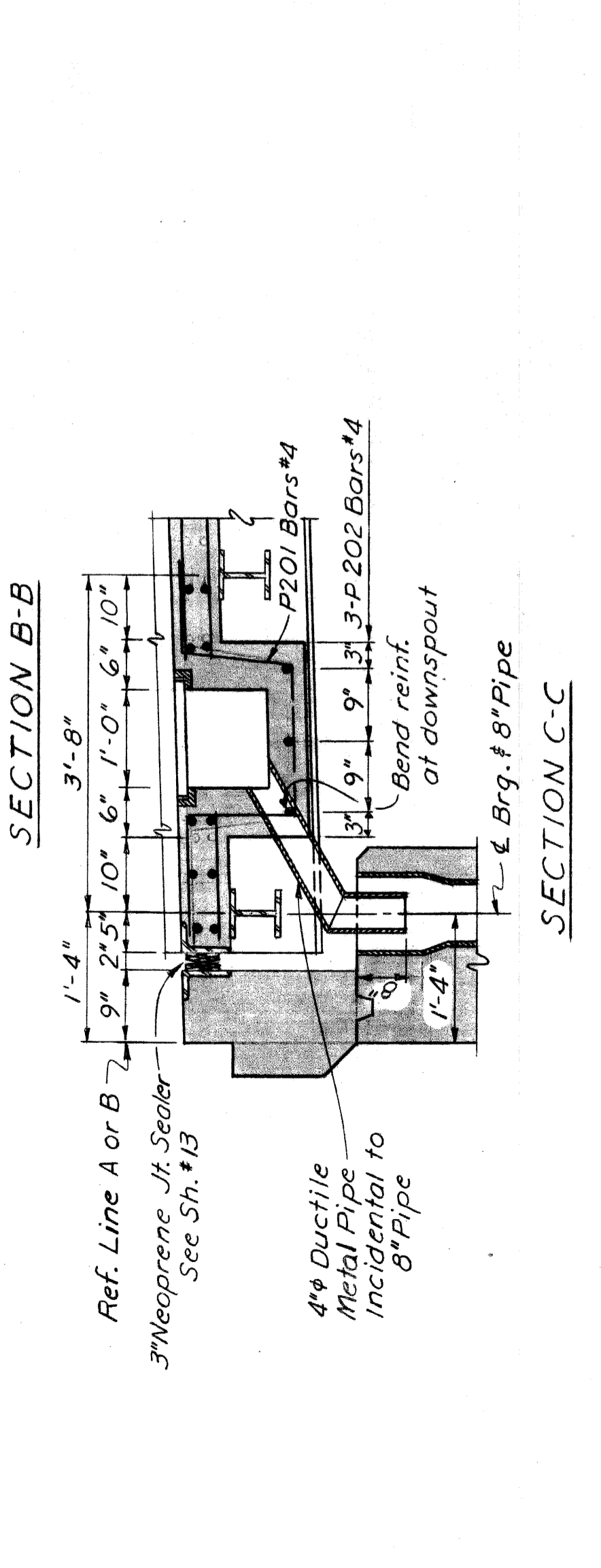
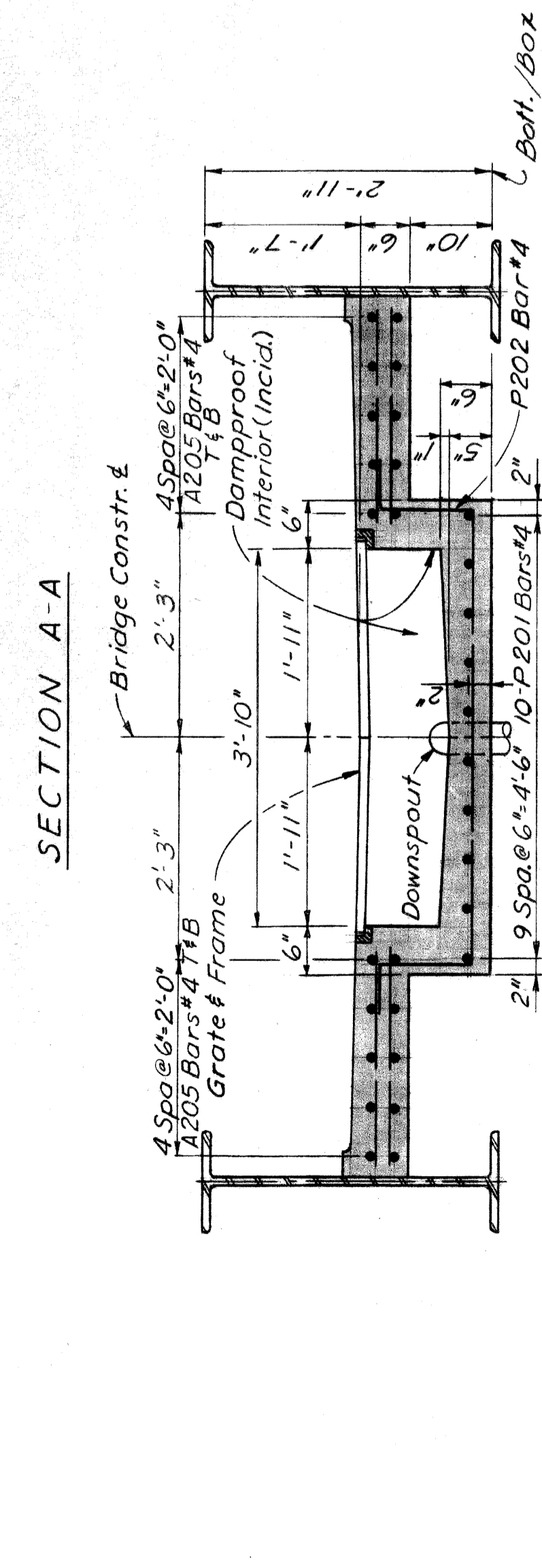
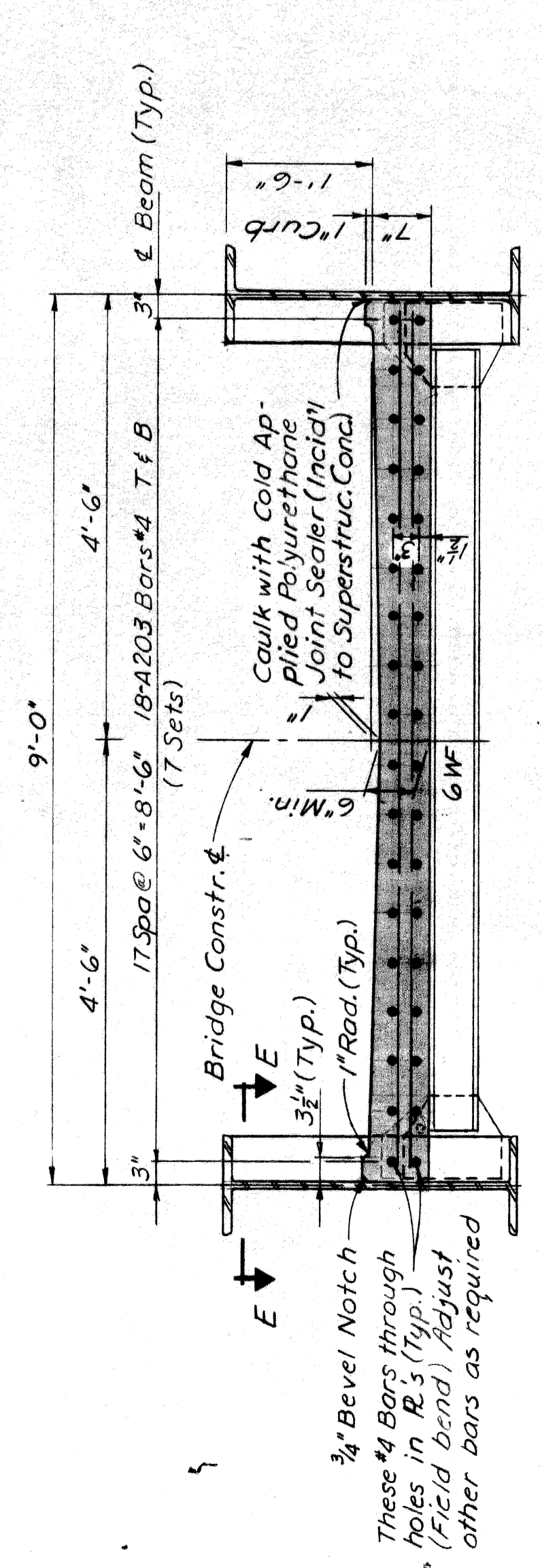
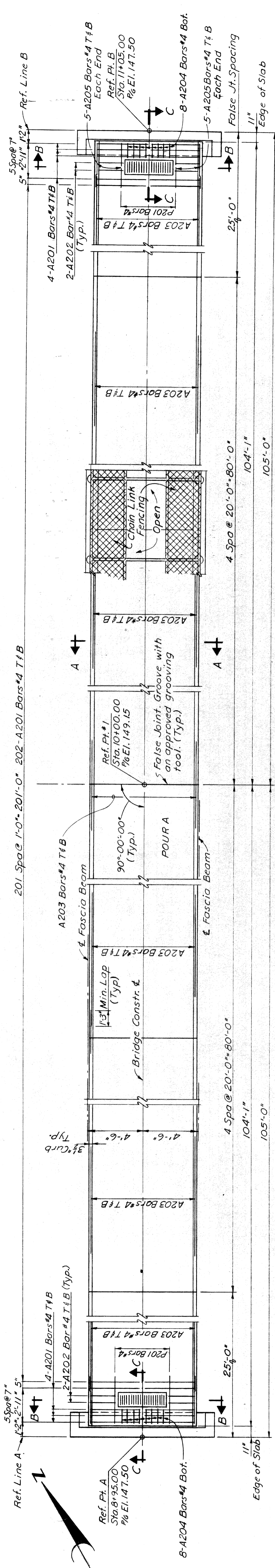
NO. _____ DATE _____ BY _____

REVISIONS

NO.	DESCRIPTION	DATE	BY

PROJECT NO. 621231

SHEET 12 OF 16



CONCRETE QUANTITIES GRADE A (6AA)

FOUR	CU.YDS.	38.3
TOTAL		38.3

MISCELLANEOUS QUANTITIES

Item	Unit	Amount
Water Reducing-Retarding Admixture	Gals.	6
3" Neoprene Joint Sealer	Lin. Ft.	18

2 complete Frames with anchor and gratings are required. Material is to be gray iron conforming to A.S.T.M. Specification A 48-56 or Ductile Metal conforming to A.S.T.M. Specification A 339-55. Weight of Grates and Frames is included in Structural Steel Weight. Grates shall be bolted to Frames.

DRAIN FRAME & GRATING DETAILS

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
BUREAU OF HIGHWAYS AND EXPRESSWAYS

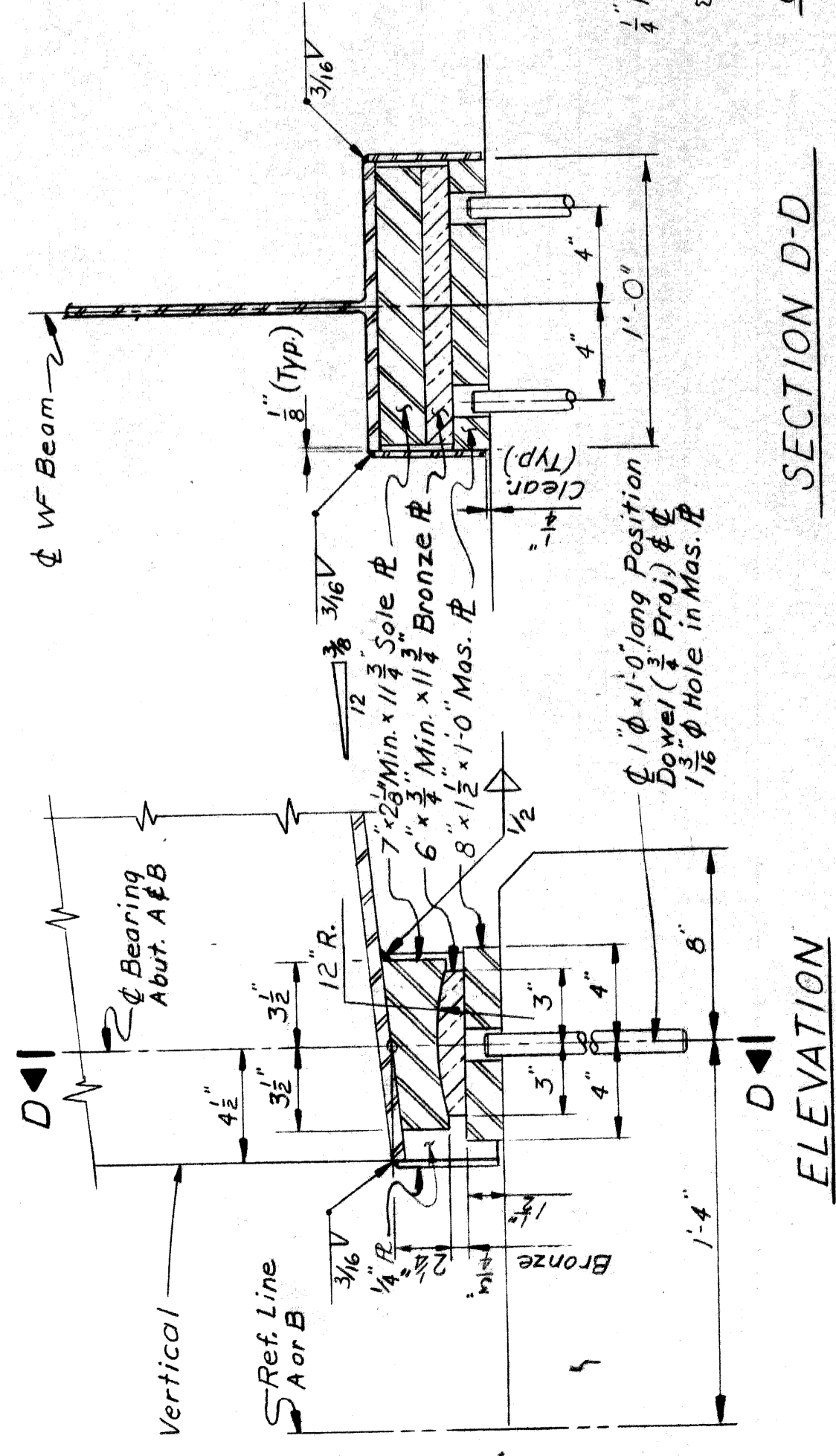
1603 P.O.
FW 9904

STRUCTURE DETAILS

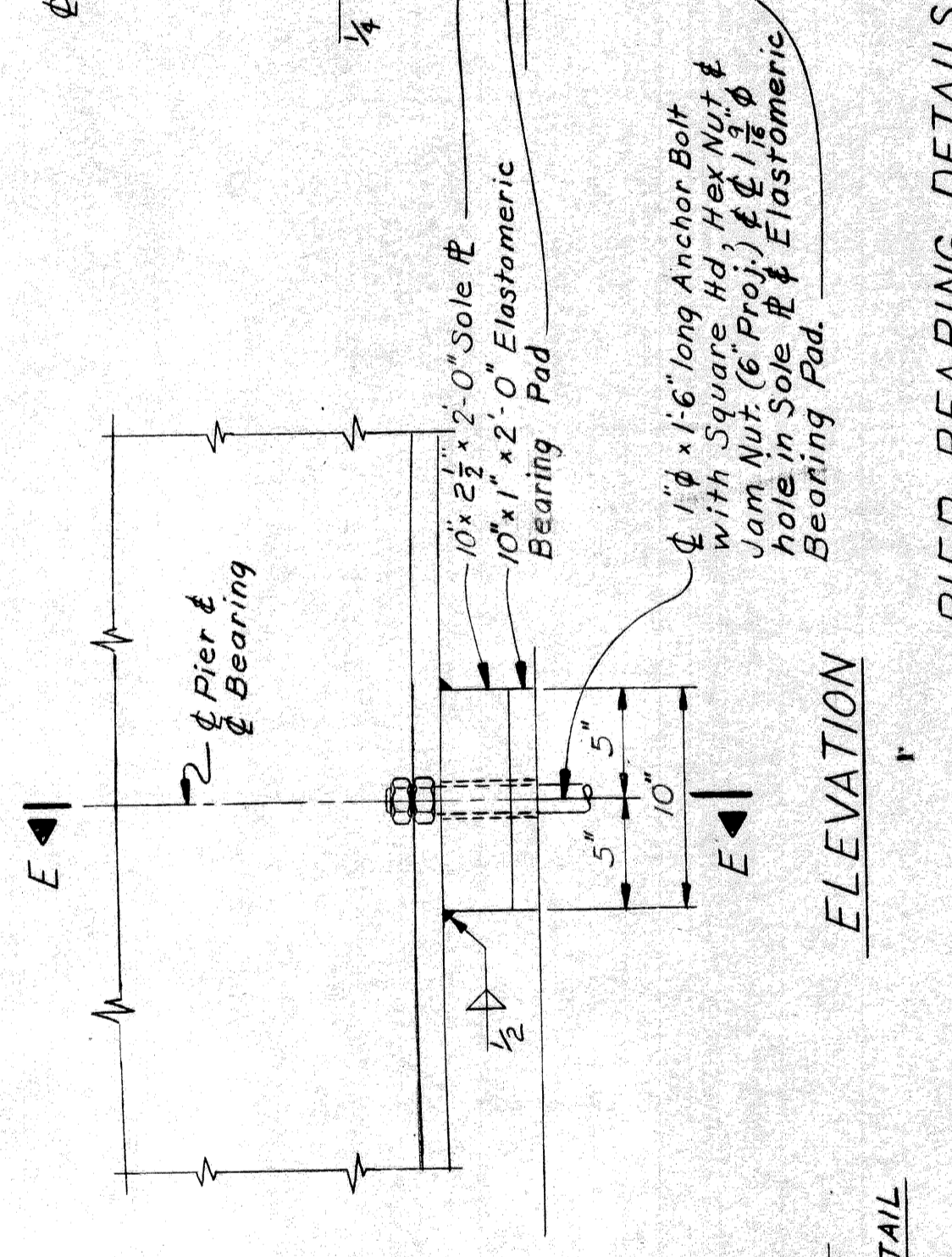
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CHECKED BY	R.H.P.
DATE	5/11/59
SHEET	18
OF	18

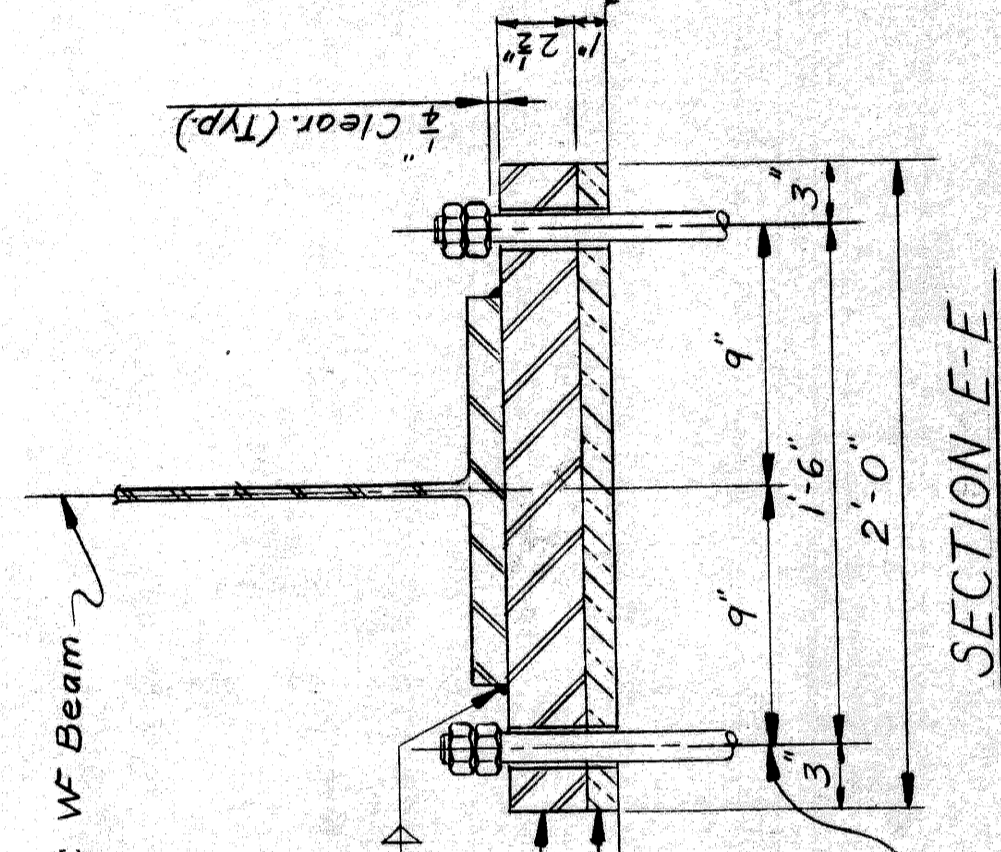
Std of 82131



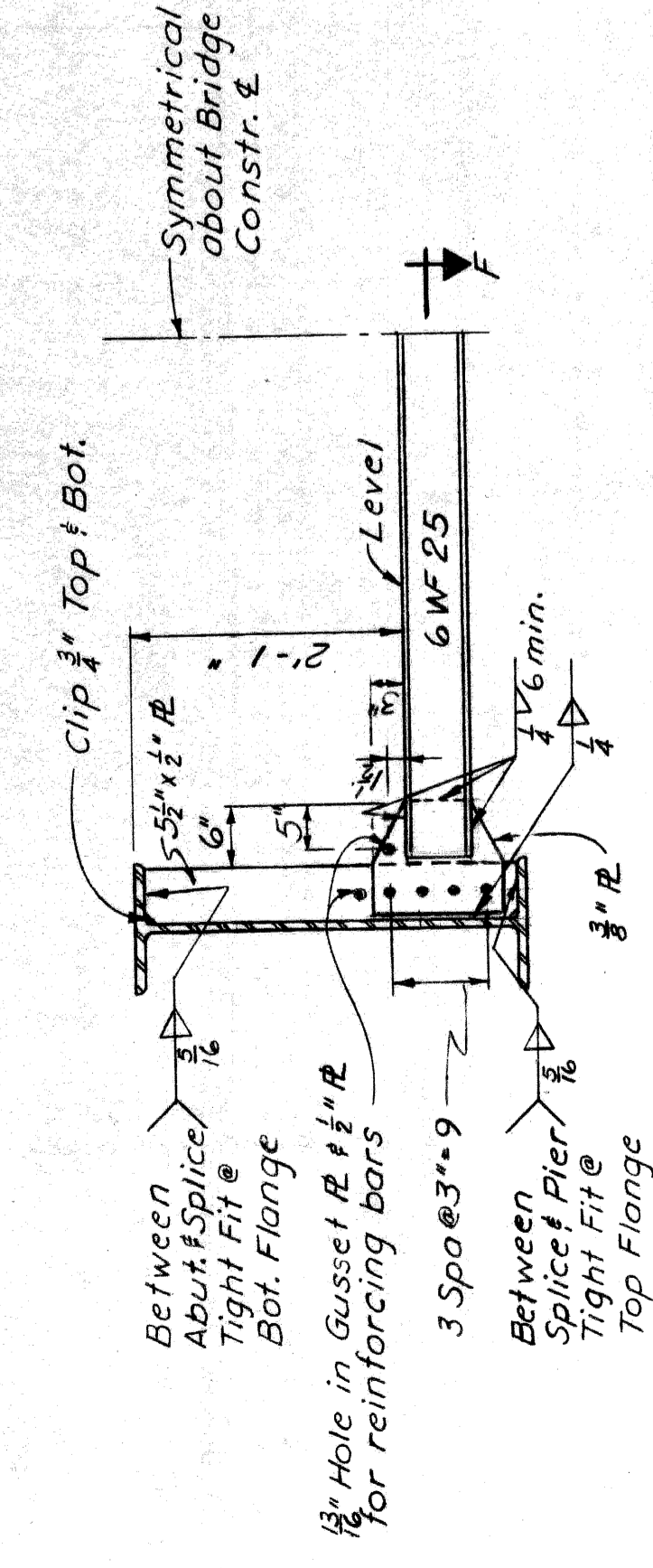
SECTION D-D
ABUTMENT BEARING DETAILS



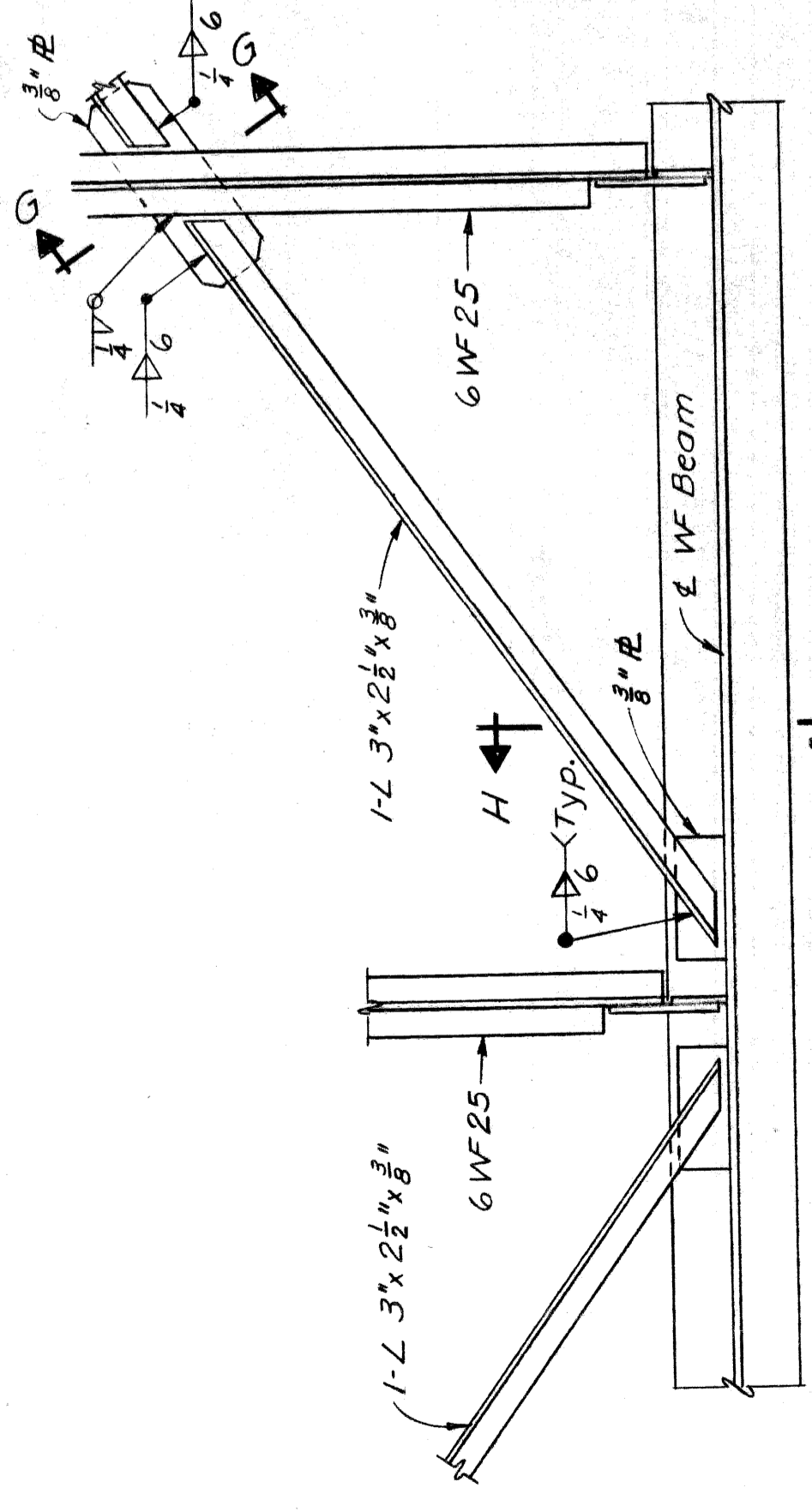
SECTION E-E
PIER BEARING DETAILS



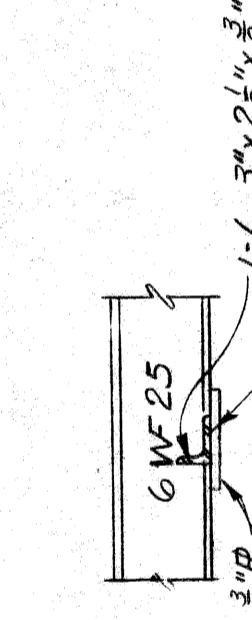
CORNER DETAIL



TYPICAL HALF SECTION

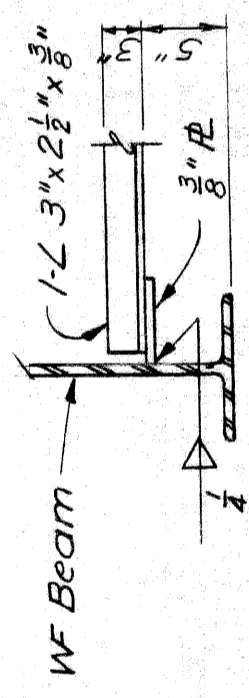


SECTION H-H
LATERAL BRACING DETAILS

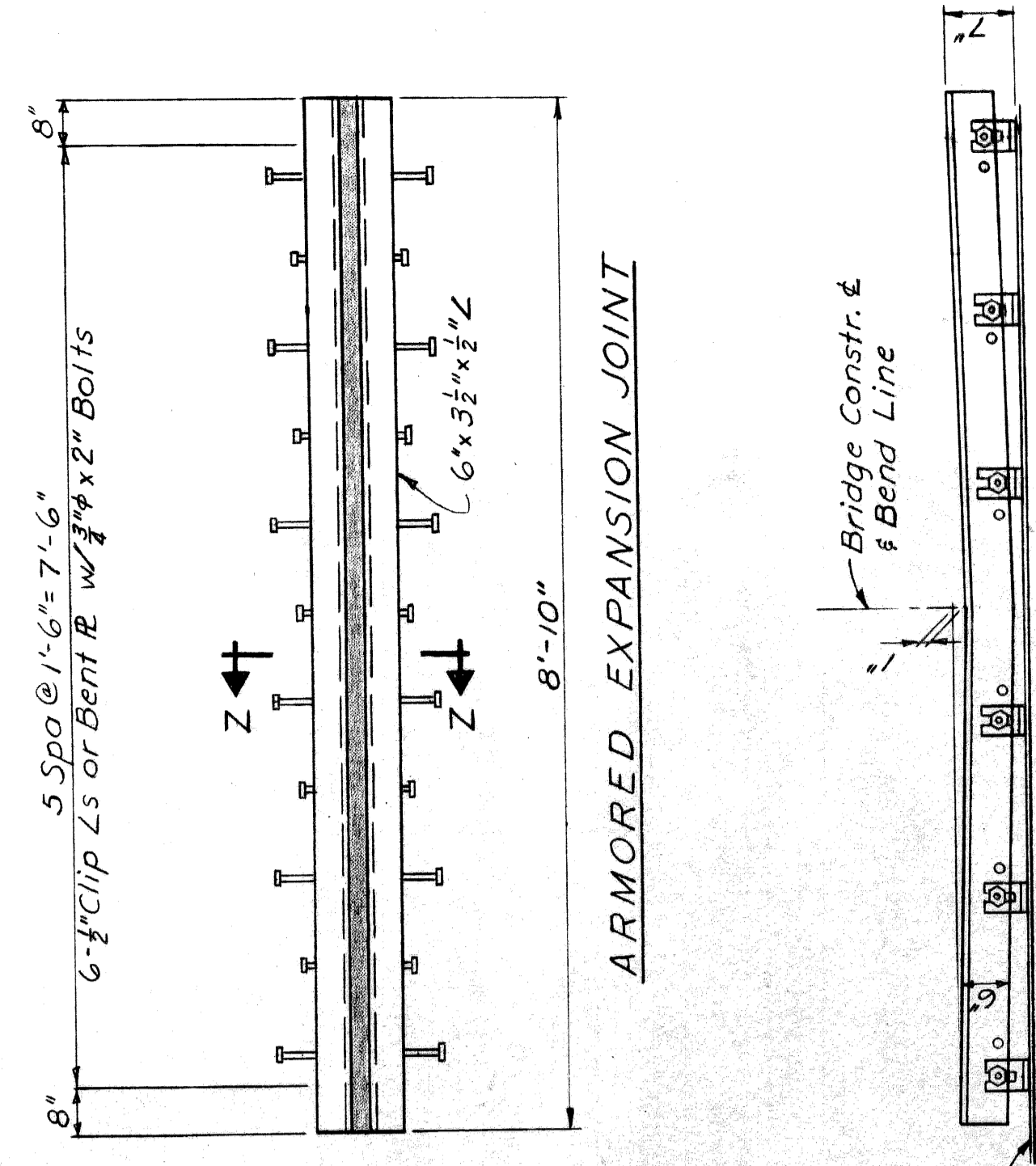


SECTION F-F

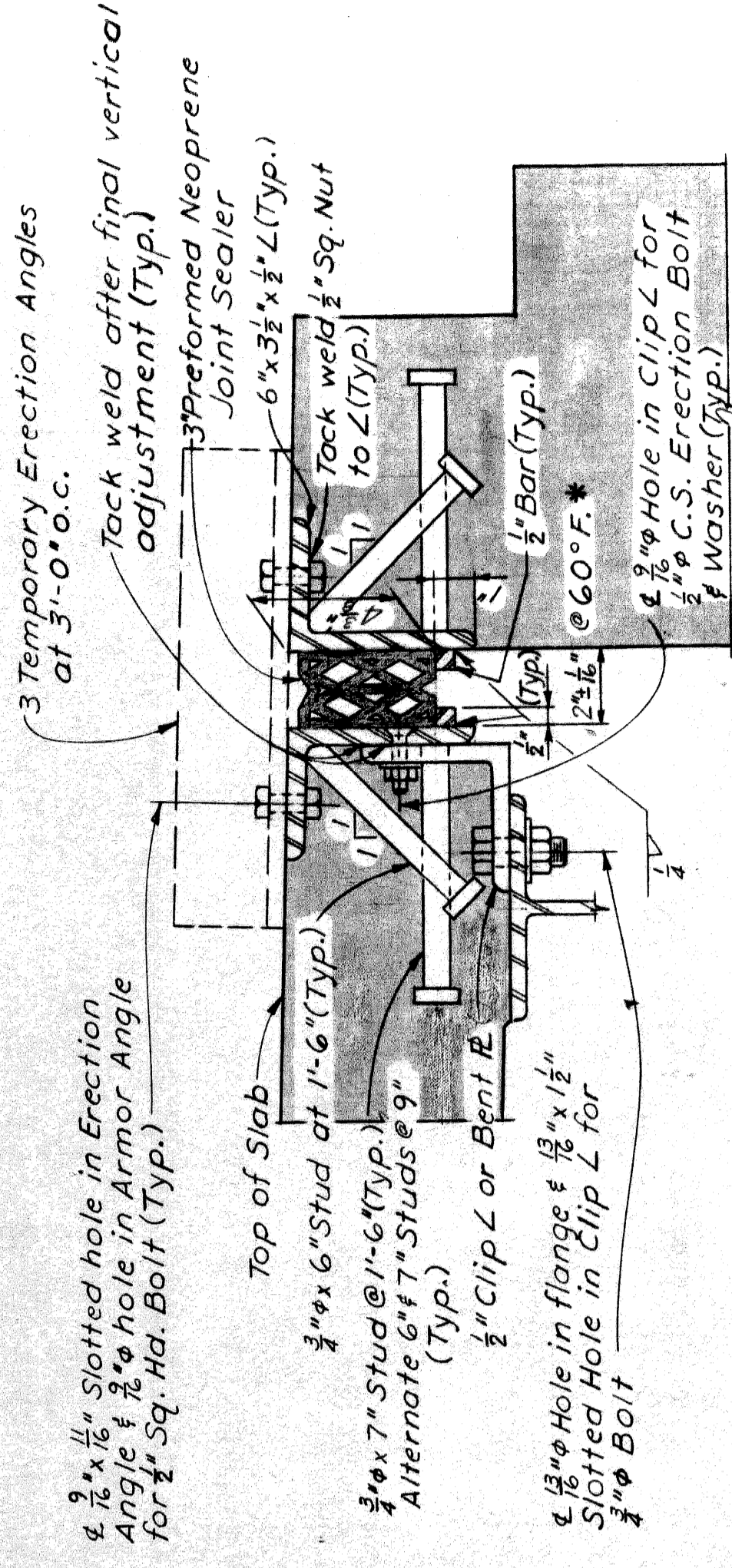
SECTION G-G



SECTION H-H



ELEVATION



SECTION Z-Z

* Increase by 1/8" for each 10° of beam temperature below 60°F for each 70 ft. of slab length or decrease by 1/8" for each 10° of beam temperature above 60°F. for each 70 ft. of slab length.

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: *H. G. ...*
PROF. CIVIL ENGINEER

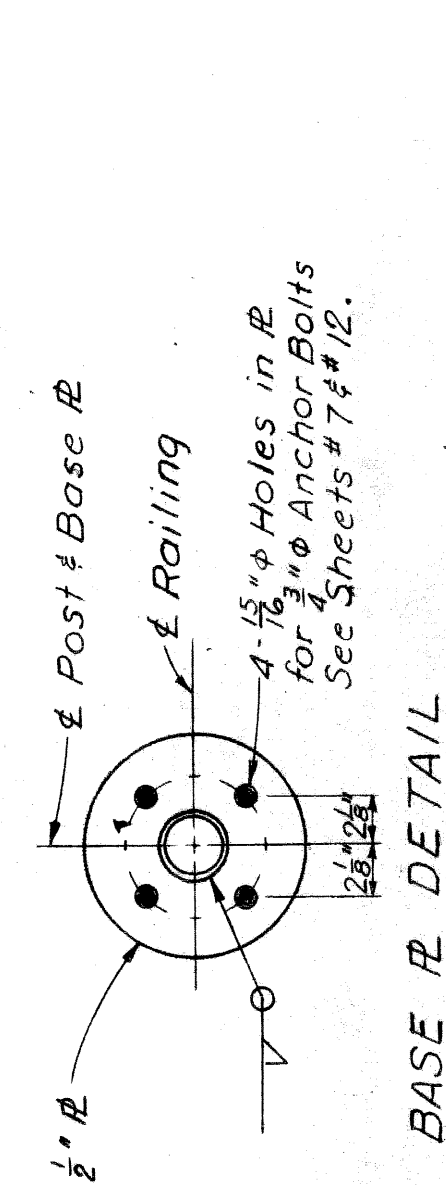
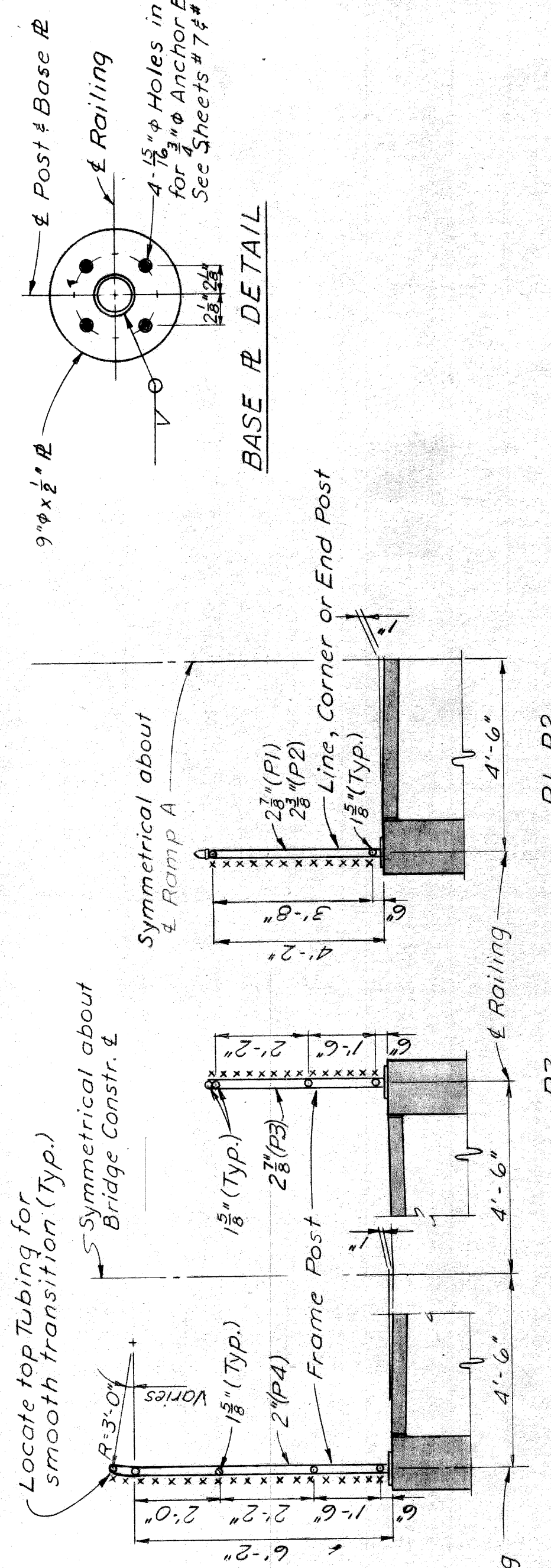
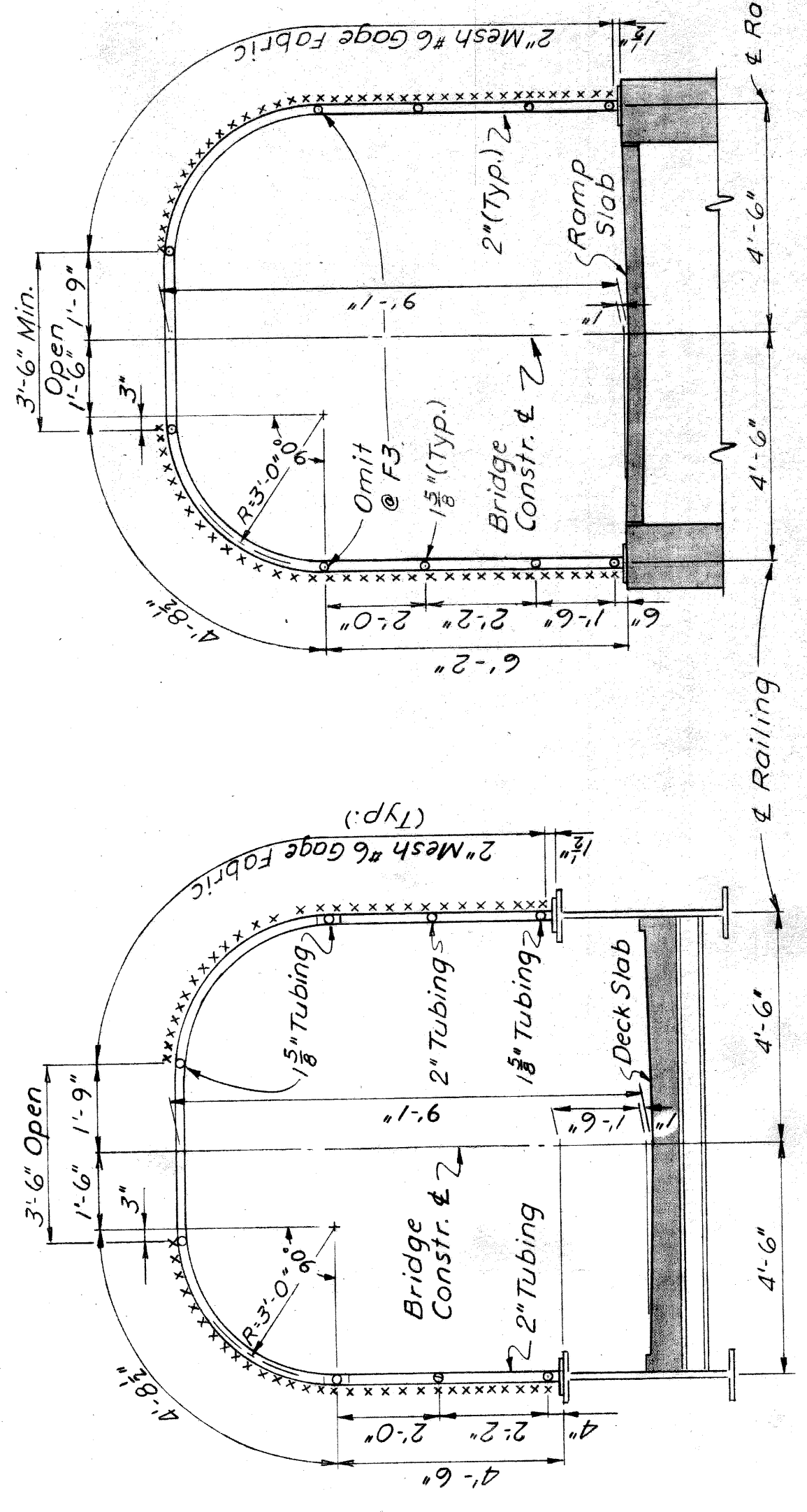
JUL 5 No. 000004

REVISIONS		DATE	BY
NO.	DESCRIPTION		

STRUCTURAL STEEL DETAILS

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

SHOUD BISS 10/2/73
DRAWN BY 40773 3/69
CHECKED BY FW/L/M 5/29
SHEET 13 OF 16
POA of 821231



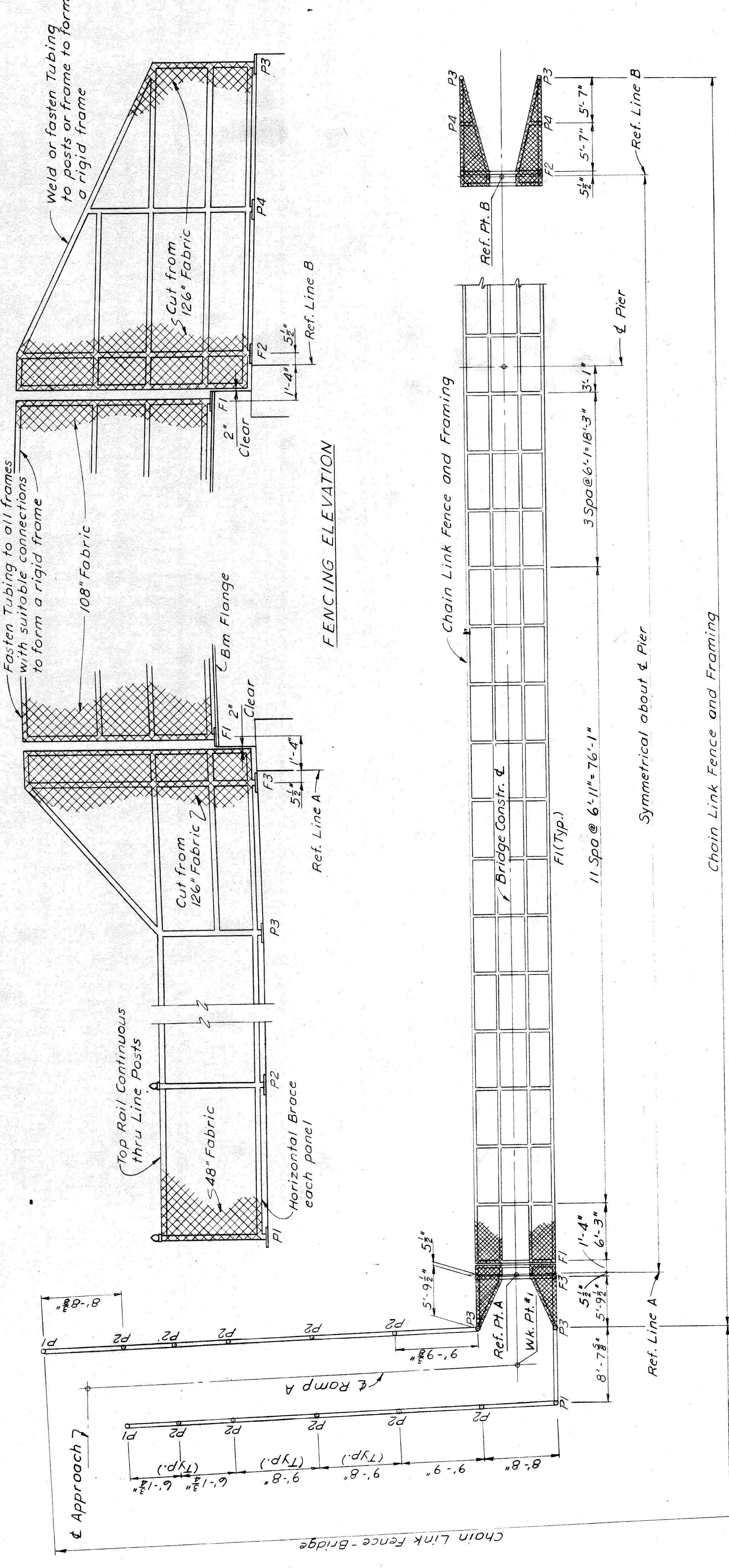
CHAIN LINK FENCE AND FRAMING
F2, F3

CHAIN LINK FENCE
- BRIDGE
P1, P2

CHAIN LINK FENCE AND FRAMING
F1

CHAIN LINK FENCE AND FRAMING
P3

CHAIN LINK FENCE AND FRAMING
P4



FENCING ELEVATION

FENCING PLAN

NOTES
 Enclosure posts are to be normal to the deck slab.
 Chain Link Fence and Framing and Chain Link Fence-Bridge shall conform to the M.D.S.H. Standard Specifications, Sec. 7.22.04. The fence material is to be adequately fastened to all tubing in the frame.
 Nominal 1 1/2" tubing shall be 1 1/2" O.D. steel pipe or tubing weighing 2.27 lbs. per ft., galvanized.
 Nominal 2" tubing shall be 2" O.D. steel pipe or tubing weighing 2.72 lbs. per ft., galvanized.
 Nominal 2 1/2" tubing shall be 2 1/2" O.D. steel pipe or tubing weighing 3.65 lbs. per ft., galvanized.
 Nominal 3" tubing shall be 3" O.D. steel pipe or tubing weighing 5.79 lbs. per ft., galvanized.
 All tubing shall be furnished with suitable connections and its min. weight shall be within 5% of the weight specified.
 All steel components are to be galvanized. (Anchor Bolts, Nuts and Washers shall be galvanized in accordance with A.S.T.M. A153).
 Anchor Bolts, Nuts and Washers are to be A.S.T.M. A307.
 Dimensions are horizontal along & railing.
 Pay length is measured out to out of metal with no deductions for expansions openings.

QUANTITIES
 Chain Link Fence & Framing
 Chain Link Fence-Bridge

2279 Lin. Ft.
 108.8 Lin. Ft.

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

FENCING PLAN

FENCE DETAILS

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 OFFICE OF THE ENGINEER
 OFFICE OF HIGHWAYS AND LANDWAYS

APPROVED: [Signature]
 [Title]

JOB NO. []
 DATE []

REVISIONS

NO.	DESCRIPTION	DATE	BY

SAUND ROSS
 DRAWN BY []
 CHECKED BY []
 SHEET 15 OF 16
 P04 of 821231

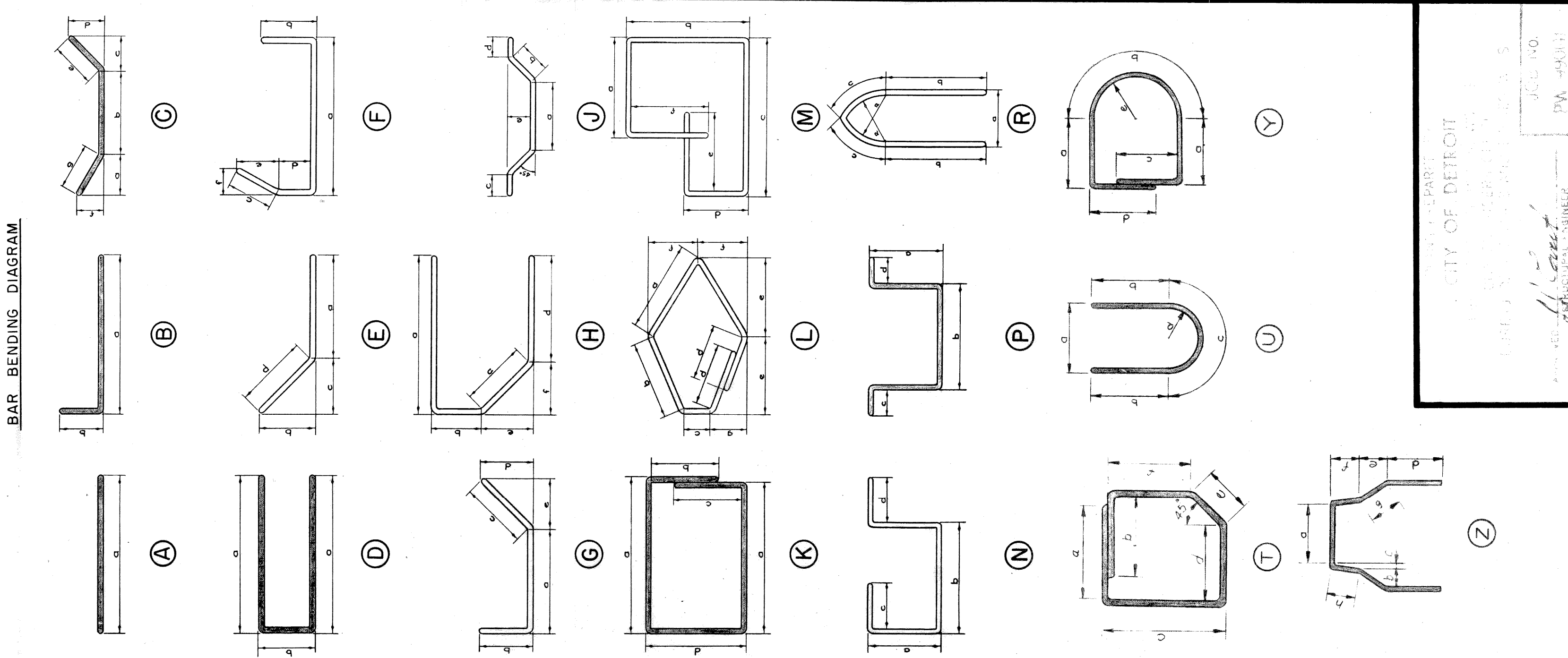
ABUTMENT AND WALLS

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g		
A1	20'-9"							9	281
A2	18'-3"							9	247
A3	13'-0"							9	176
A4	11'-6"							18	311
A5	11'-6"							70	558
A6	6'-9"							18	81
A7	15'-0"							18	180
A8	9'-3"							18	111
A9	2'-9"							4	17
A10	5'-9"							12	104
A11	28'-6"							6	237
A12	1'-9"							40	105
A13	5'-6"							40	330
A14	7'-0"							40	421
A15	14'-0"							20	187
A16	15'-6"							24	249
A17	10'-9"							18	291
A18	15'-6"							9	210
A19	14'-0"							9	189
A20	12'-3"							36	662
A21	7'-0"							4	19
B1	1'-8"	1'-0 1/2"						8	14
C1	1'-1 1/2"	1'-3"	1'-1 1/2"	1'-1 1/2"	1'-7"	1'-1 1/2"	1'-7"	9	60
D1	2'-10"	4 1/2"						18	72
D2	2'-2"	8"						8	26
D3	3'-0"	8"						8	378
D4	1'-3"	8"						39	80
T1	7"	7"	10 1/2"	4 1/2"	6"	6 1/2"		10	23
TOTAL ABUTMENTS AND WALLS 7,239 ^W									
A101	19'-6"							7	365
A102	9'-6"							14	200
A103	5'-6"							28	231
A104	19'-2"							16	1043
A105	2'-0"							4	12
A106	19'-6"							4	52
A107	17'-0"							7	80
A108	10'-0"							9	366
A109	10'-0"							4	60
A110	10'-0"							2	21
D101	2'-0"	2'-0"						6	53
K101	2'-4"	1'-5 1/2"	1'-5 1/2"	1'-10 1/2"				4	23
K102	2'-6"	1'-5 1/2"	1'-5 1/2"	1'-10 1/2"				4	26
K103	2'-6"	1'-5 1/2"	1'-5 1/2"	1'-10 1/2"				4	27
U101	2'-3 1/2"	1'-7"	3'-7 3/4"	1'-1 1/4"				6	42
Y101	1'-1"	3'-5"	1'-5 1/2"	1'-5 1/2"	1'-0 1/2"			22	126
Z101	2'-6 1/2"	3'	9"	1'-3"	1'-1"	1'-1 1/2"	1'-1 1/2"	12	60
TOTAL PIER 2,745 ^W									

SUPERSTRUCTURE

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g		
A201	8'-9"							16	2455
A202	2'-3"							16	24
A203	30'-0"							252	5050
A204	1'-3"							16	13
A205	4'-0"							40	107
P201	1'-0"	1'-7 1/2"	1'-3"	1'-3"				20	81
P202	1'-1 1/4"	4'-7 1/4"	10"	10"				6	34
TOTAL SUPERSTRUCTURE 7,764									

BAR	DIMENSIONS							NO. REQ'D	TOTAL WT.
	a	b	c	d	e	f	g		



Note: -
 All right angle bends in Reinforcing Steel to be made about a pin of the minimum diameter allowed by the Standard Specifications.
 All bar numbers on this sheet to be prefixed P04.

Tolerances in cutting and bending bars are as established in Manual of Standard Practice of the Concrete Reinforcing Steel Institute and Detailing Manual of the American Concrete Institute.
 Grand Total Steel Reinforcement 16,751[#]

MICHIGAN STATE HIGHWAY DEPARTMENT

STEEL REINFORCEMENT DETAILS

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 1000 W. WOODWARD AVENUE
 DETROIT, MICHIGAN 48226

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

DATE: _____ BY: _____

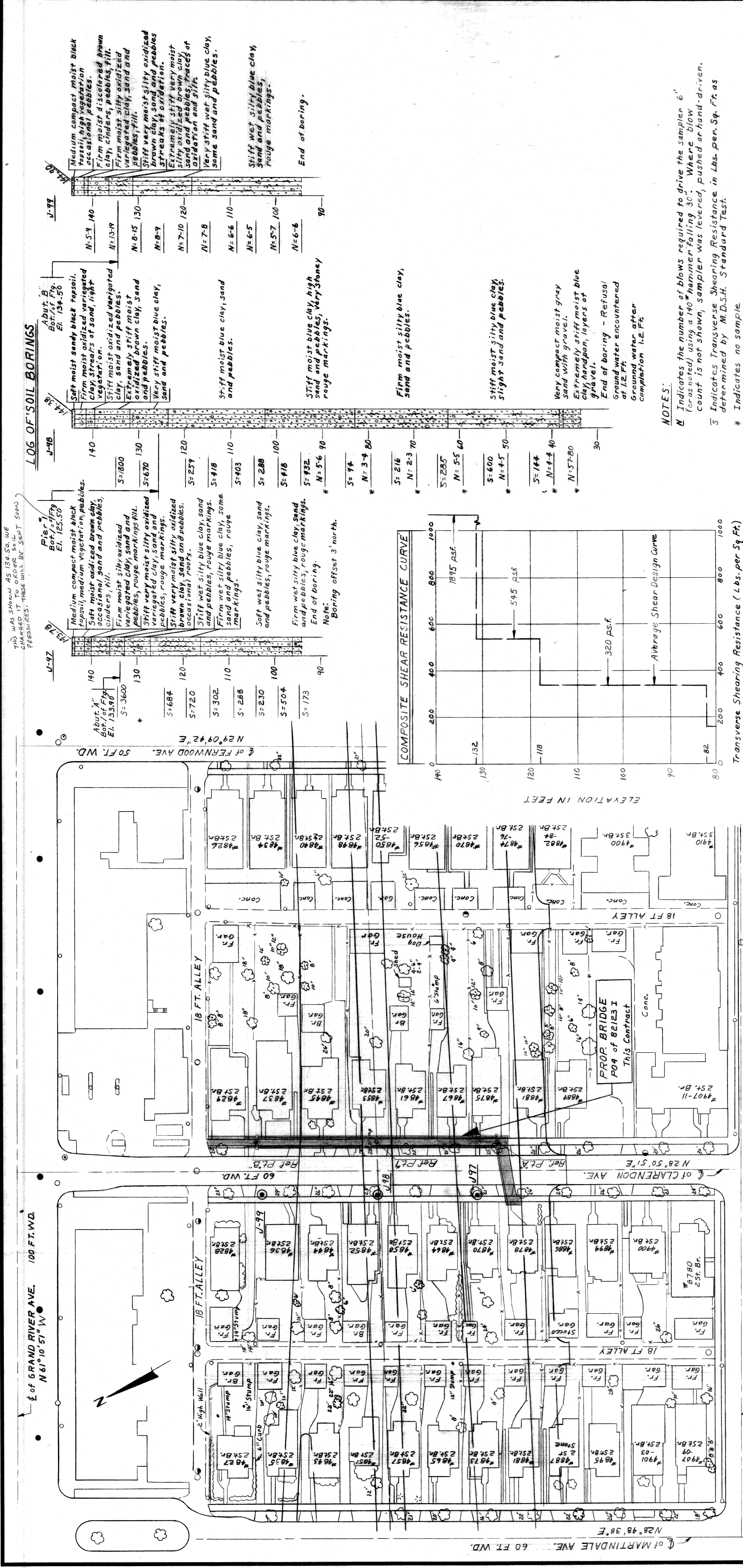
NO. _____

REVISIONS

NO.	DESCRIPTION

DRAWN BY: M. J. ...
 CHECKED BY: F. J. ...
 SHEET 16 OF 16

P04 of 821231



LOG OF SOIL BORINGS

U-97
 Abut. A' Bot./of Fty. El. 133.90
 S=3600
 S=684
 S=720
 S=302
 S=288
 S=230
 S=504
 S=173
 90
 100
 110
 120
 130
 140

U-98
 Abut. B' Bot./of Fty. El. 134.50
 S=1800
 S=670
 S=259
 S=418
 S=403
 S=288
 S=418
 S=932
 S=576
 S=94
 S=216
 S=285
 S=600
 S=144
 S=5780
 30
 40
 50
 60
 70
 80
 90
 100
 110
 120
 130
 140

U-99
 90
 100
 110
 120
 130
 140

Notes:
 Boring offset 3' north.

Soil Descriptions:
 Medium compact moist black topsoil, high vegetation occasional pebbles.
 Firm moist oxidized variegated clay, streaks of sand, light vegetation.
 Firm moist oxidized variegated clay, cinders, pebbles, fill.
 Firm moist silty oxidized variegated clay, sand and pebbles, fill.
 Stiff very moist silty oxidized variegated clay, sand and pebbles.
 Extremely stiff moist oxidized brown clay, sand and pebbles.
 Very stiff moist blue clay, sand and pebbles.
 Stiff moist blue clay, high sand and pebbles, rough markings.
 Firm moist silty blue clay, sand and pebbles.
 Stiff moist blue clay, high sand and pebbles, rough markings.
 Firm moist silty blue clay, sand and pebbles.
 Stiff moist silty blue clay, slight sand and pebbles.
 Very compact moist gray sand with gravel.
 Extremely stiff moist blue clay, hardpan, layers of gravel.
 End of boring - Refusal at 12 Ft.
 Ground water encountered completion 1.2 Ft.

LEGEND

- Tree
- Fence
- Sewer Manhole
- Sewer Inlet or Catch Basin
- Water Gate Well and Valve
- R.C. Cable Manhole
- Fire Hydrant
- D.F.D. Alarm Box
- Test Hole for Soil Profile
- M.B.T. Cable Manhole
- Removed
- R.C. Lightpole

NOTES:
 The topography shown represents conditions existing at the time the field survey was made. These conditions may have been altered by the operations of others before this work is started. Bench Marks are referenced to the City of Detroit Datum.
 The work covered by these plans includes the construction of the Proposed Bridge and slope protection to the limits shown. All other work is included in the road plans which are a part of this contract.
 Removal of fences and buildings is not a part of this contract.

SURVEY PLAN
 Scale - 1"=40'

GENERAL PLAN OF SITE

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 CLARENDON AVE. PEDESTRIAN BRIDGE
 OVER THE JEFFRIES FREEWAY IN DETROIT

**PRELIMINARY PLAN "A" DATED APRIL 29, 1968
 BID LETTING DATE APRIL 13, 1969**

DESIGN SUPERVISING ENGINEER
 APPROVED

ENGINEER OF DESIGN - CONSULTANTS
 APPROVED

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOB NO. PW 990 (4)

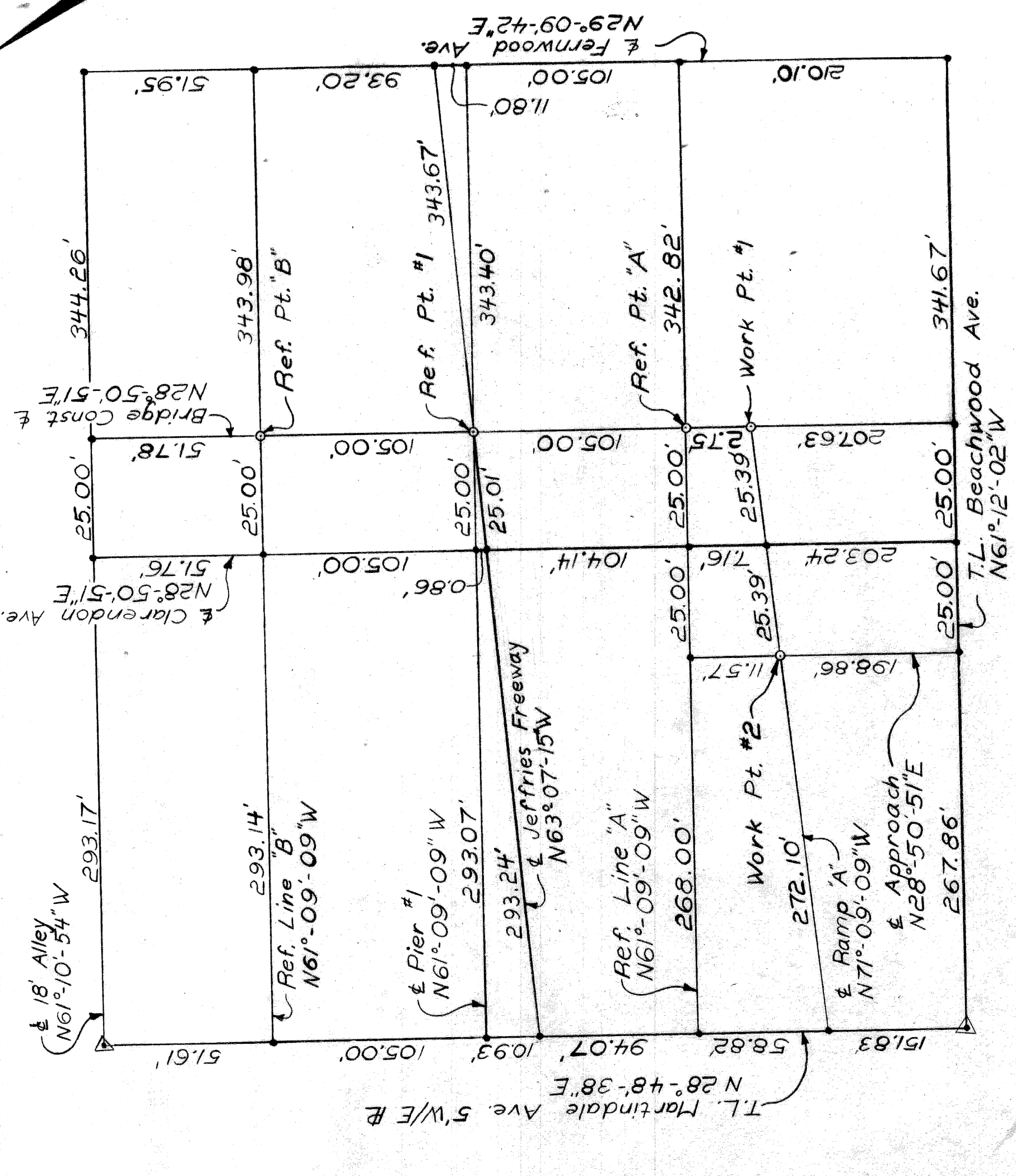
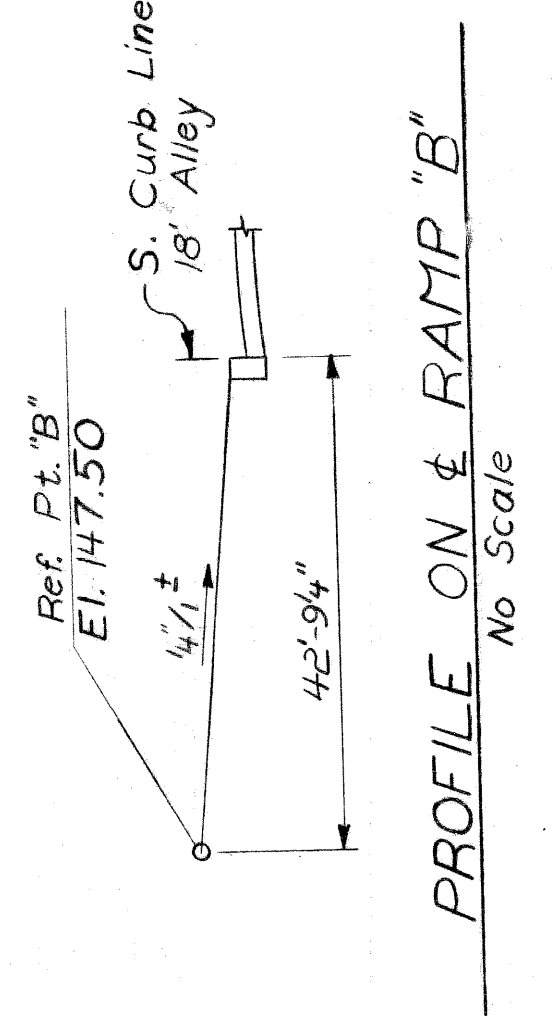
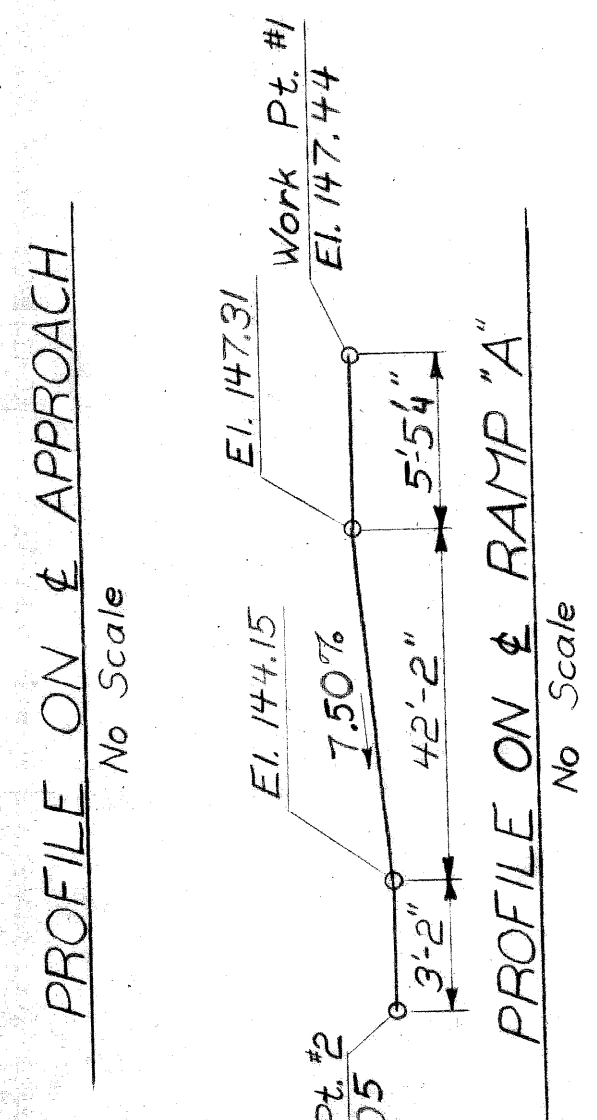
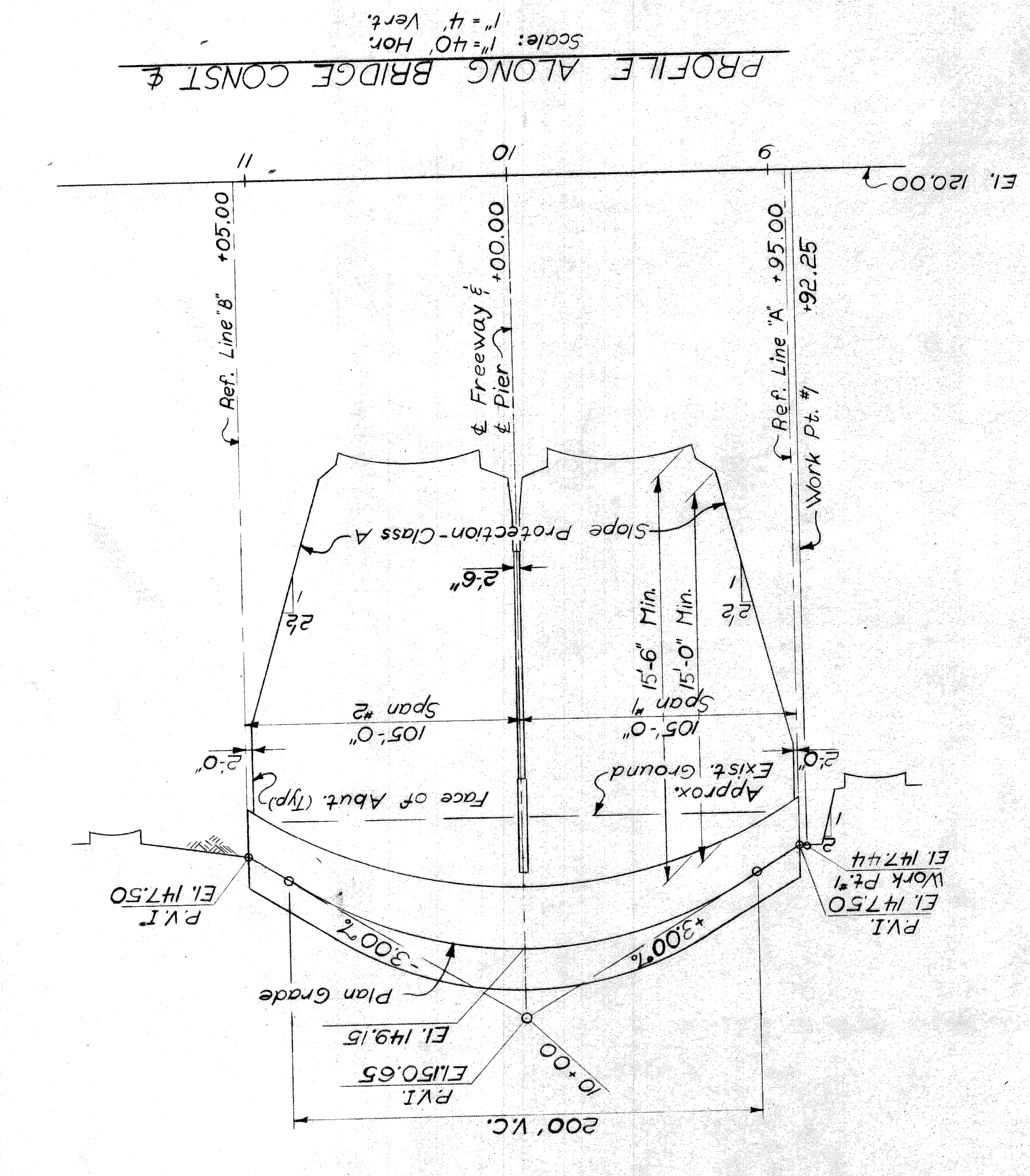
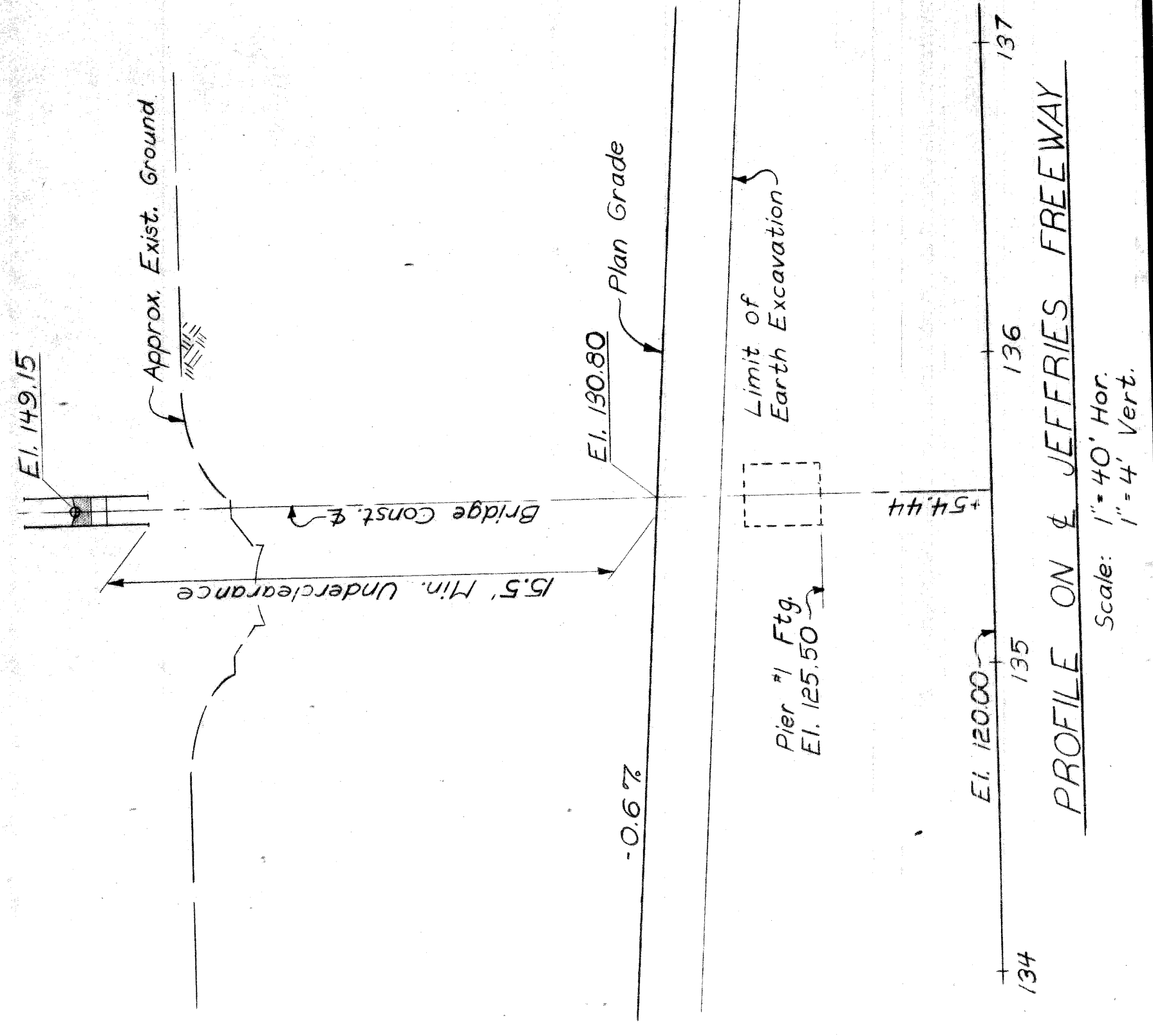
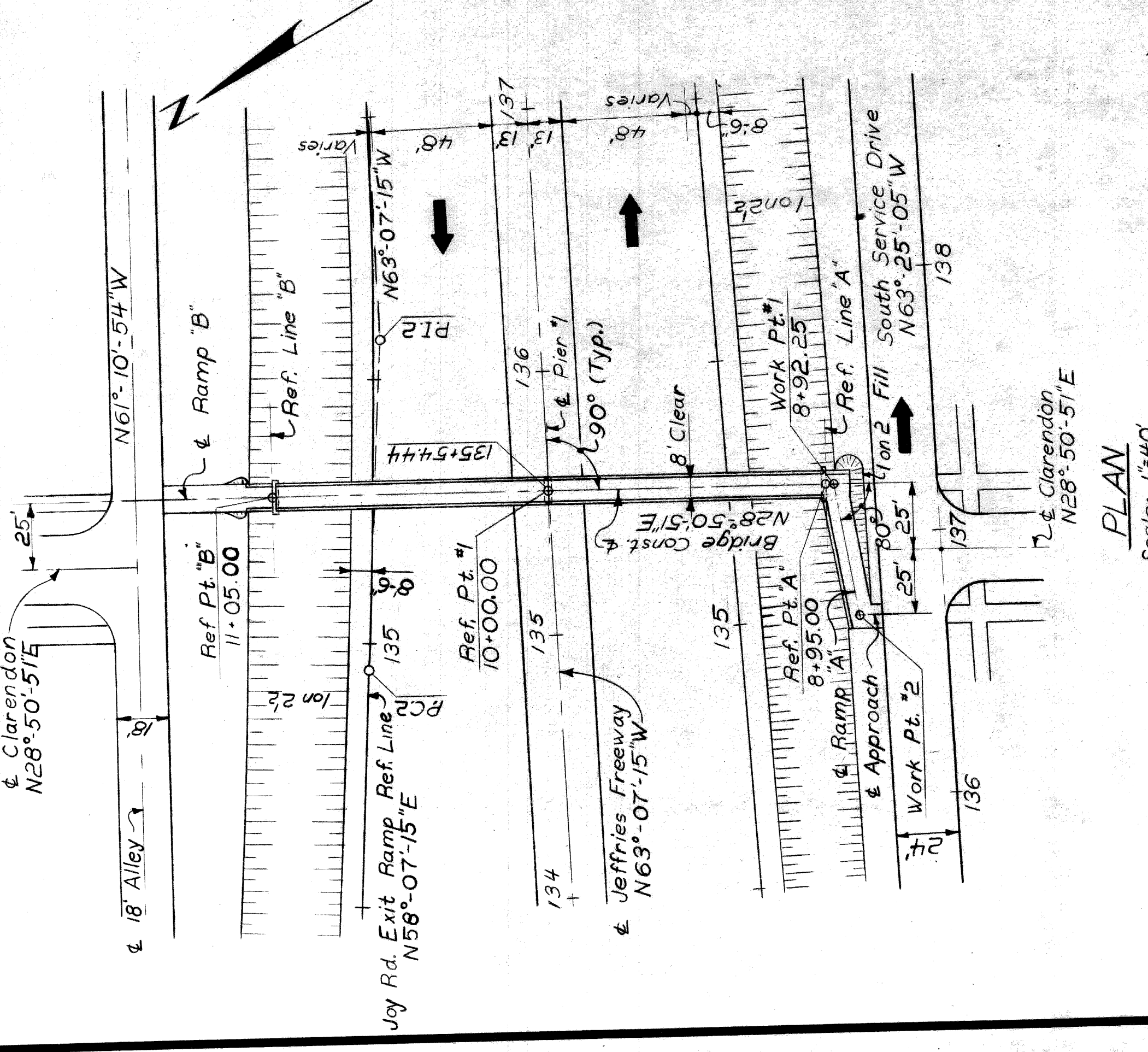
REVISIONS

NO.	DESCRIPTION	DATE	BY

THIS WAS SHOWN AS 134.50 BUT CHANGED TO 133.90 TO CORRECT FOR PRESSURE.

PO4 of 821231

NOTES:
 1 Indicates the number of blows required to drive the sampler 6" (or as noted) using a 140 hammer falling 30". Where blow count is not shown, sampler was levered, pushed or hand-driven.
 2 Indicates Transverse Shearing Resistance in Lbs. per Sq. Ft. as determined by M.D.S.H. Standard Test.
 * Indicates no sample.
 All elevations are based on City of Detroit Datum.
 Information given on this sheet for Boring U-99 is taken from field reports only.



• Indicates a Pt. of Intersection
 ○ Indicates a Ref. Pt.
 △ Indicates a change in direction

CURVE DATA FOR JOY RD. EXIT RAMP

Curve #2
 Δ = 5°-00'-00"
 D = 2°-00'-00"
 R = 2864.79'
 T = 125.08'
 L = 250.00'
 E.C. = 134+90.15
 P.C. = 196+15.23
 P.T. = 137+40.15

BENCH MARKS:

C.B.M. 111 Elev. 146.45 Arrow on Hydrant N.W. Corner Beechwood and Clarendon.
 C.B.M. 112 Elev. 149.50 Arrow on Hydrant S.W. Corner Grand River and Clarendon.
 P.B.M. 22-250 Elev. 142.906 C. of D. Monument N. W. Corner Grand River and Euclid.
 C.B.M. denotes Construction Bench Mark
 P.B.M. denotes Permanent Bench Mark
 All elevations are based on City of Detroit Datum.

PRELIMINARY PLAN 'A'
 DATED APRIL 29, 1968

PLANS PREPARED BY
 CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: [Signature] STRUCTURAL ENGINEER
 JOB NO. PW 990(4)

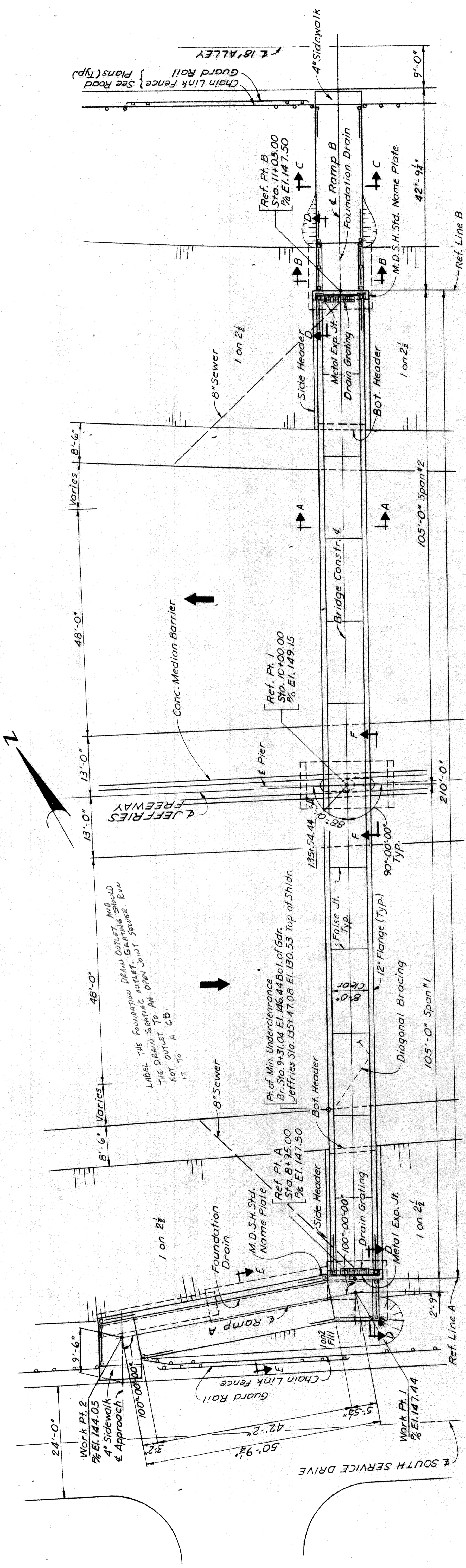
APPROVED: [Signature] DESIGN SUPERVISING ENGINEER
 APPROVED: [Signature] ENGINEER OF DESIGN - CONSULTANTS

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 CLARENDON AVE. PEDESTRIAN BRIDGE
 OVER THE JEFFRIES FREEWAY IN DETROIT

GENERAL DRAWING

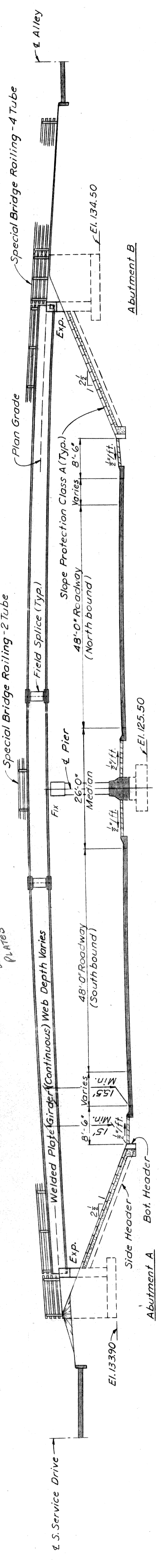
CITY OF DETROIT
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 SHEET 2 OF 5

P04 of 821231



PLAN
Scale: 3/32" = 1'-0"

USE A ROLLED BEAM, WITH TOP AND BOTTOM MOMENT CURVE PLATES IN NEG. 1/2 POS. MOMENT AREAS IF NECESSARY



ELEVATION
Scale: 3/32" = 1'-0"

PRELIMINARY PLAN "A" DATED APRIL 29, 1968

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: _____
STRUCTURAL ENGINEER

DESIGN SUPERVISING ENGINEER
APPROVED: _____
DATE

REVISIONS

NO. DESCRIPTION

JOB NO. PW 990(4)

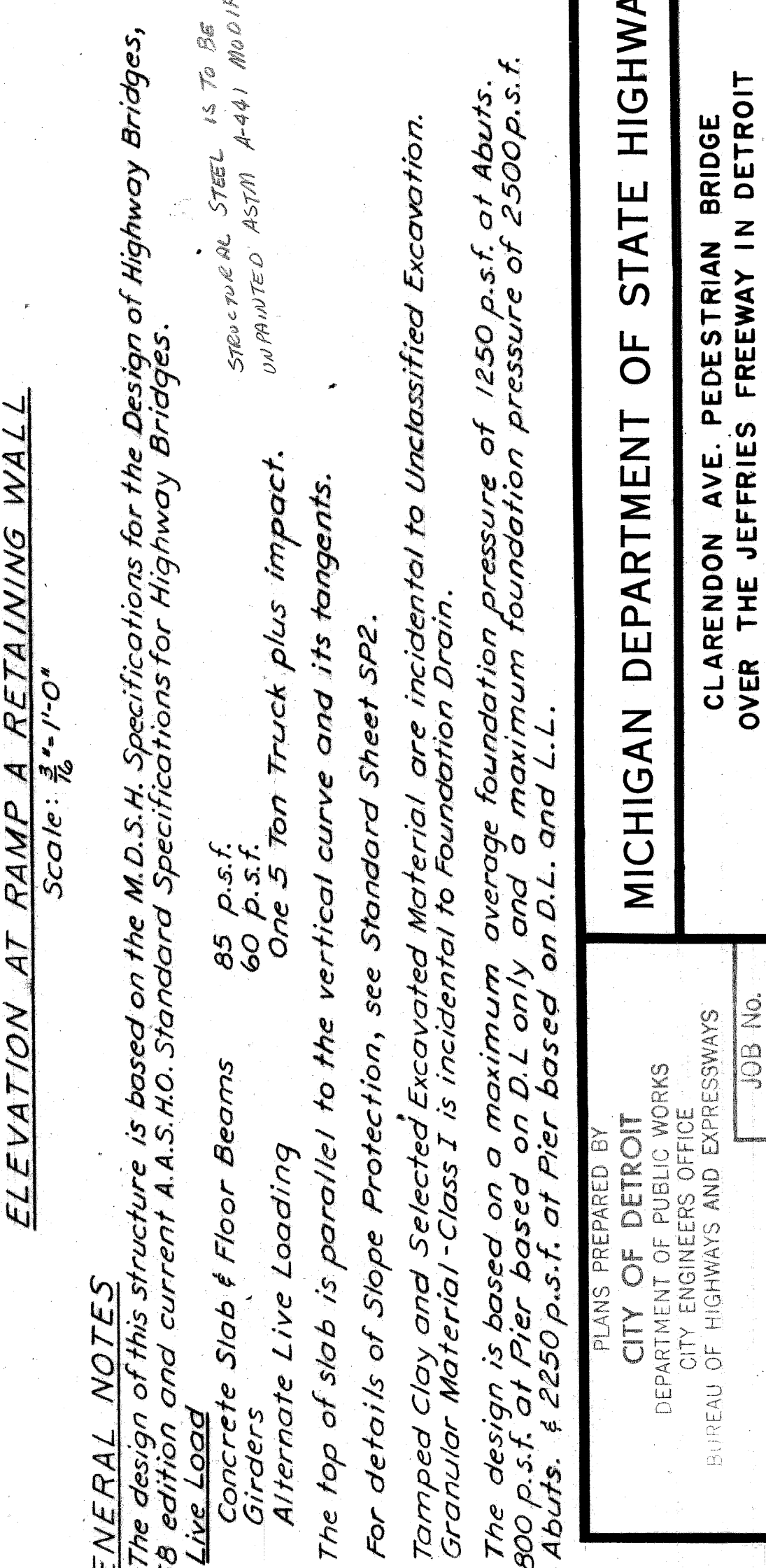
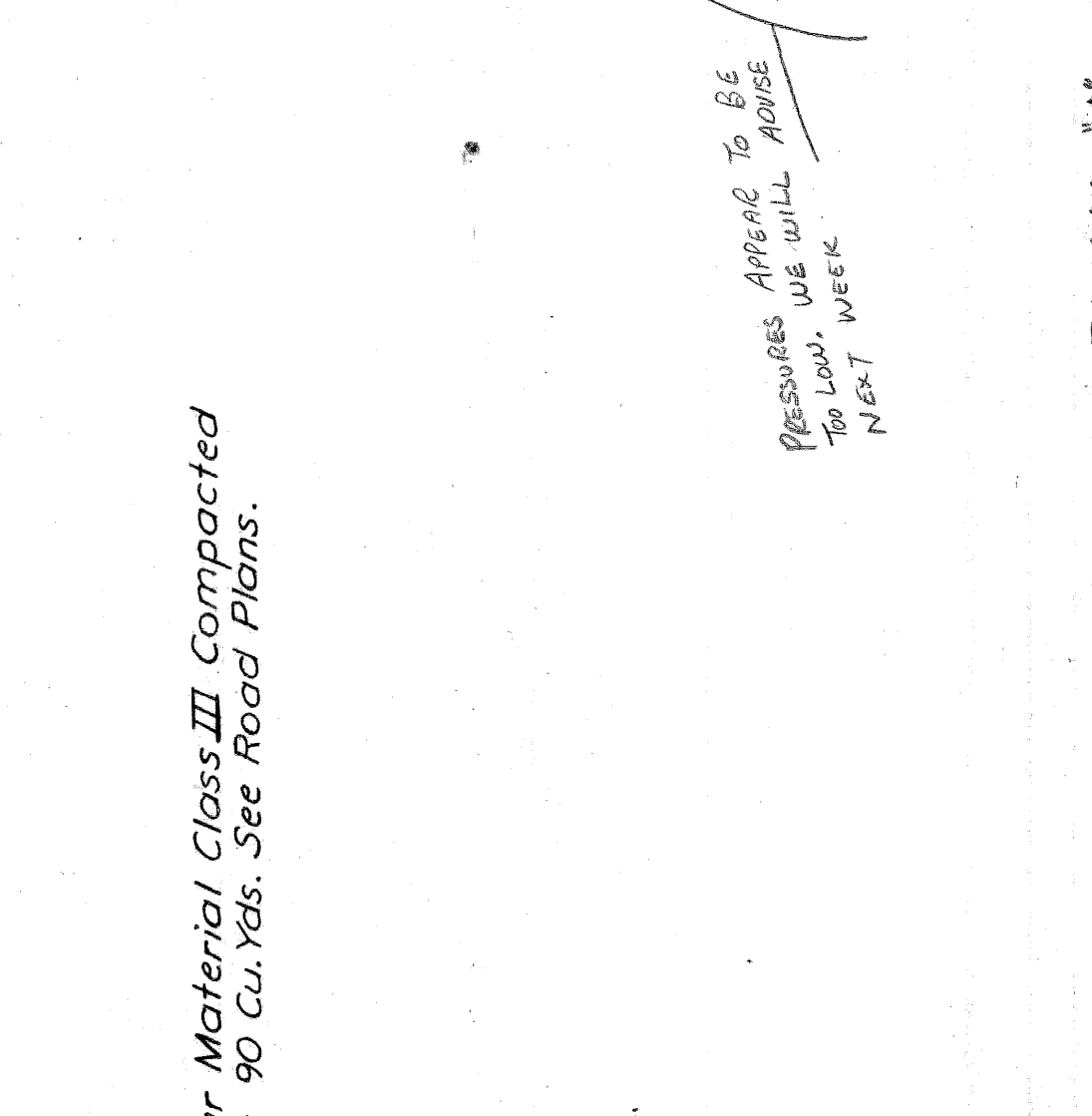
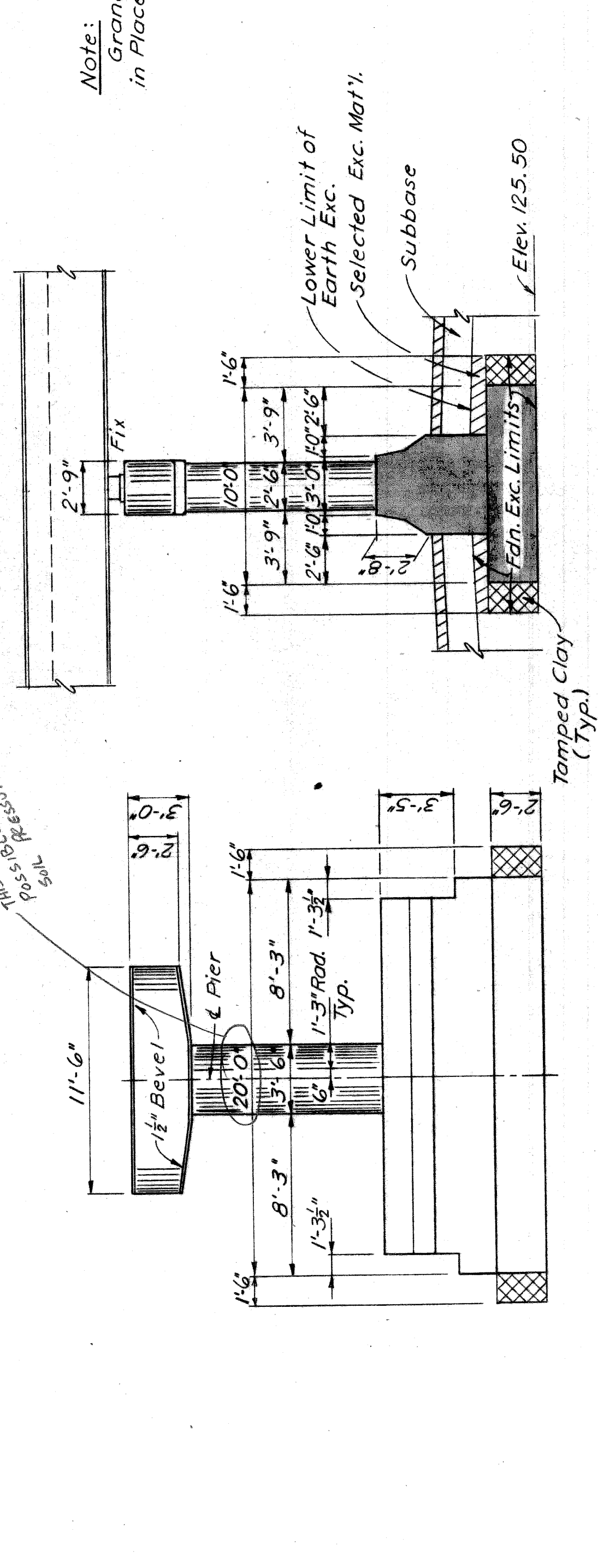
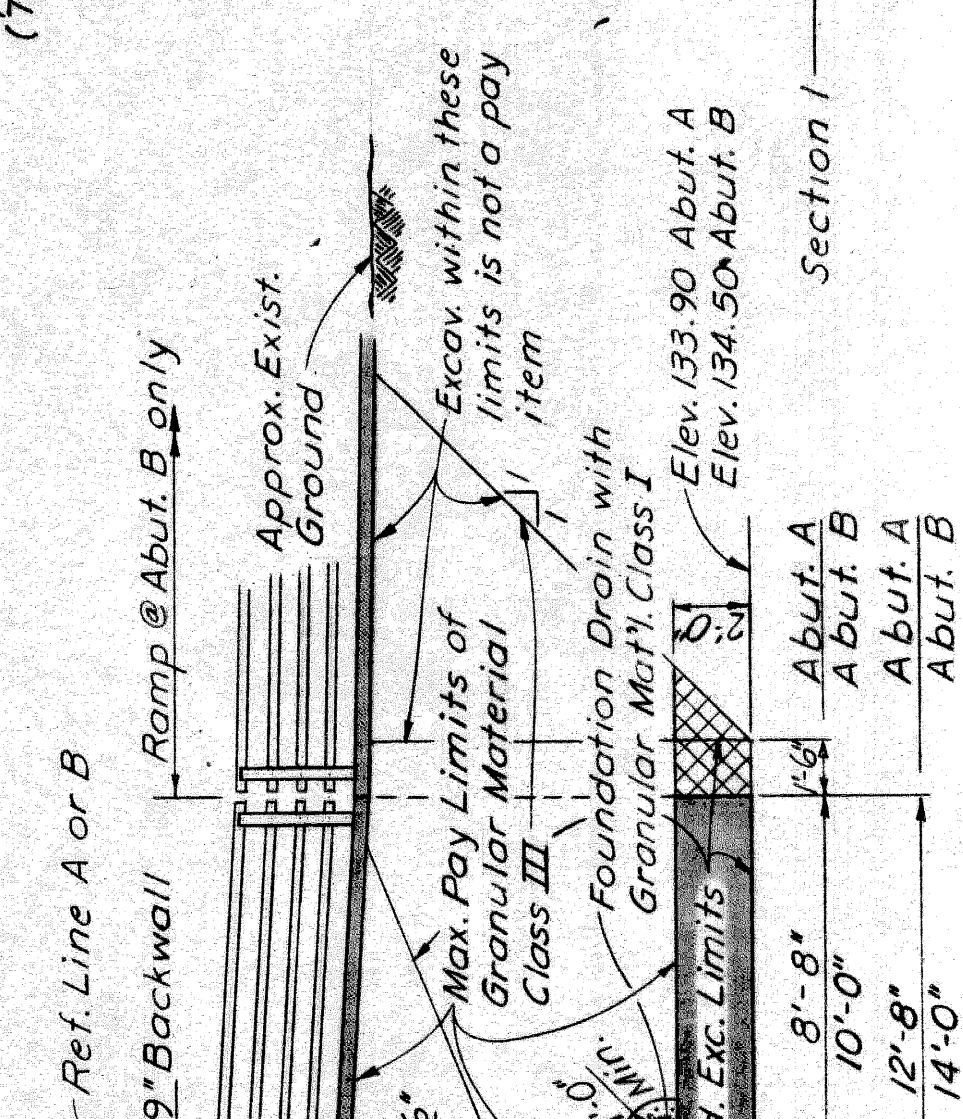
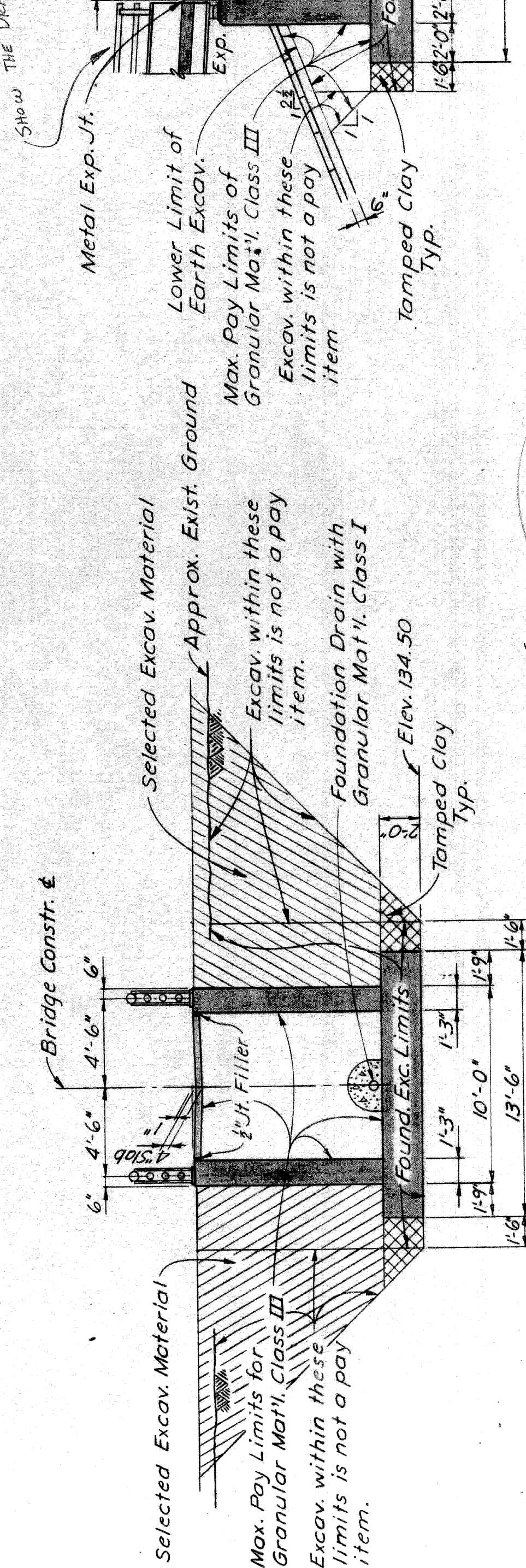
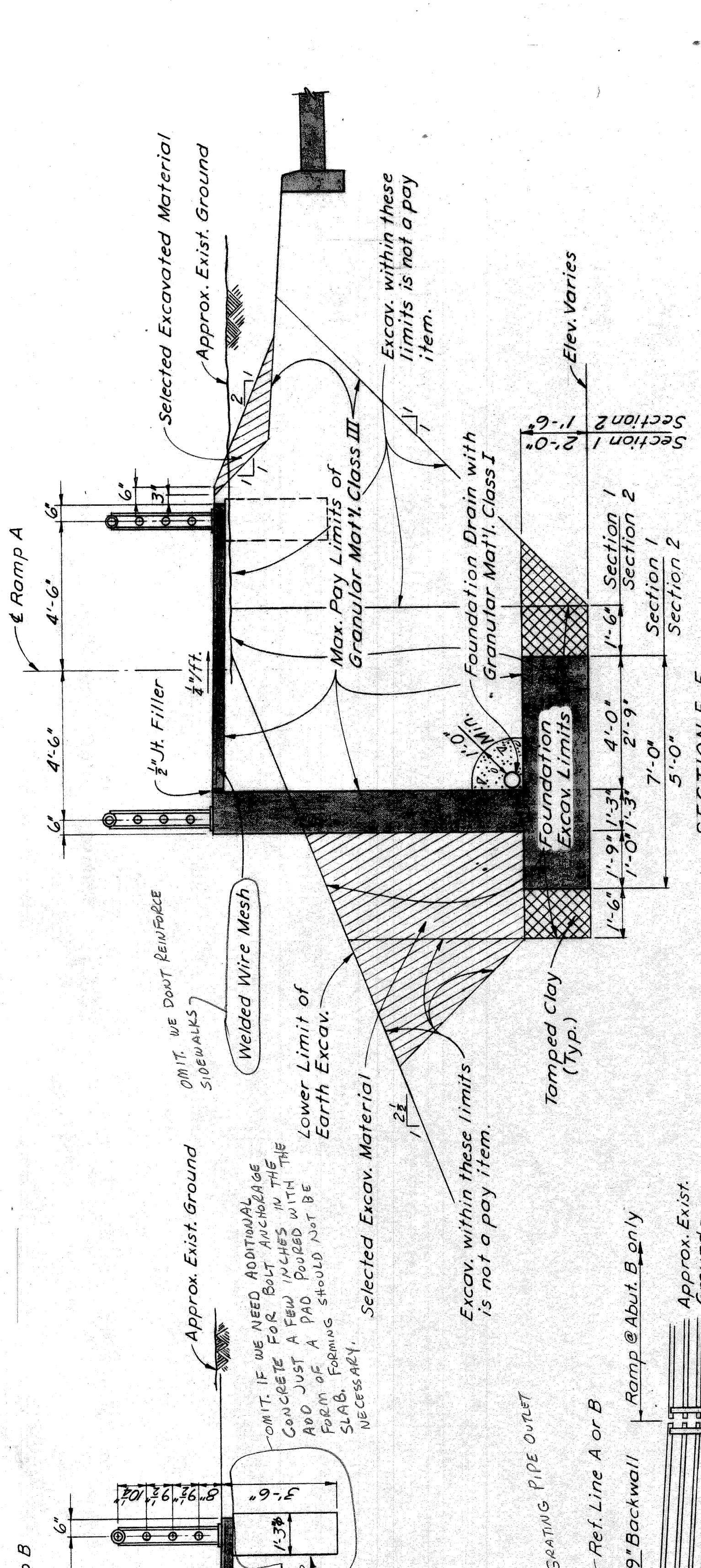
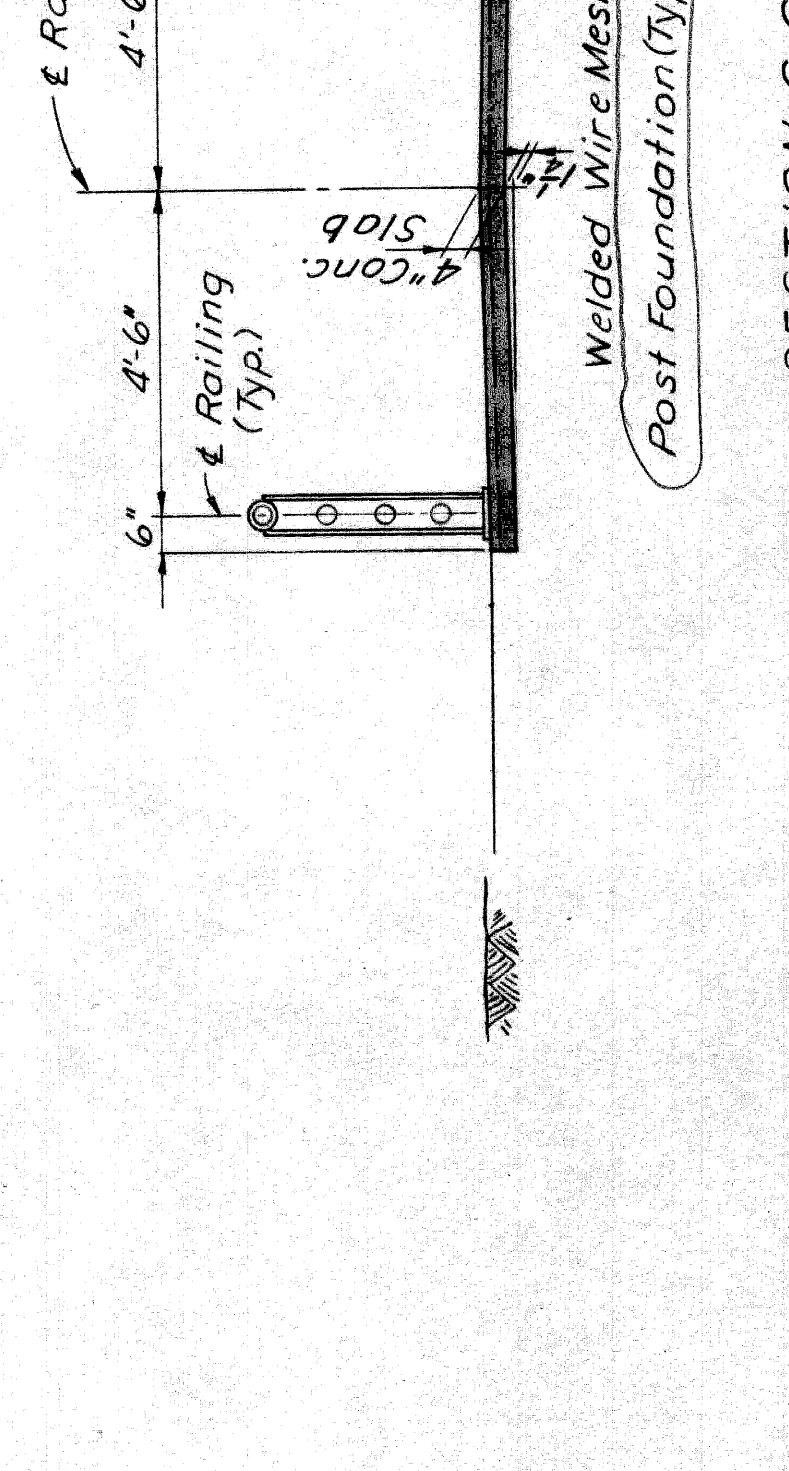
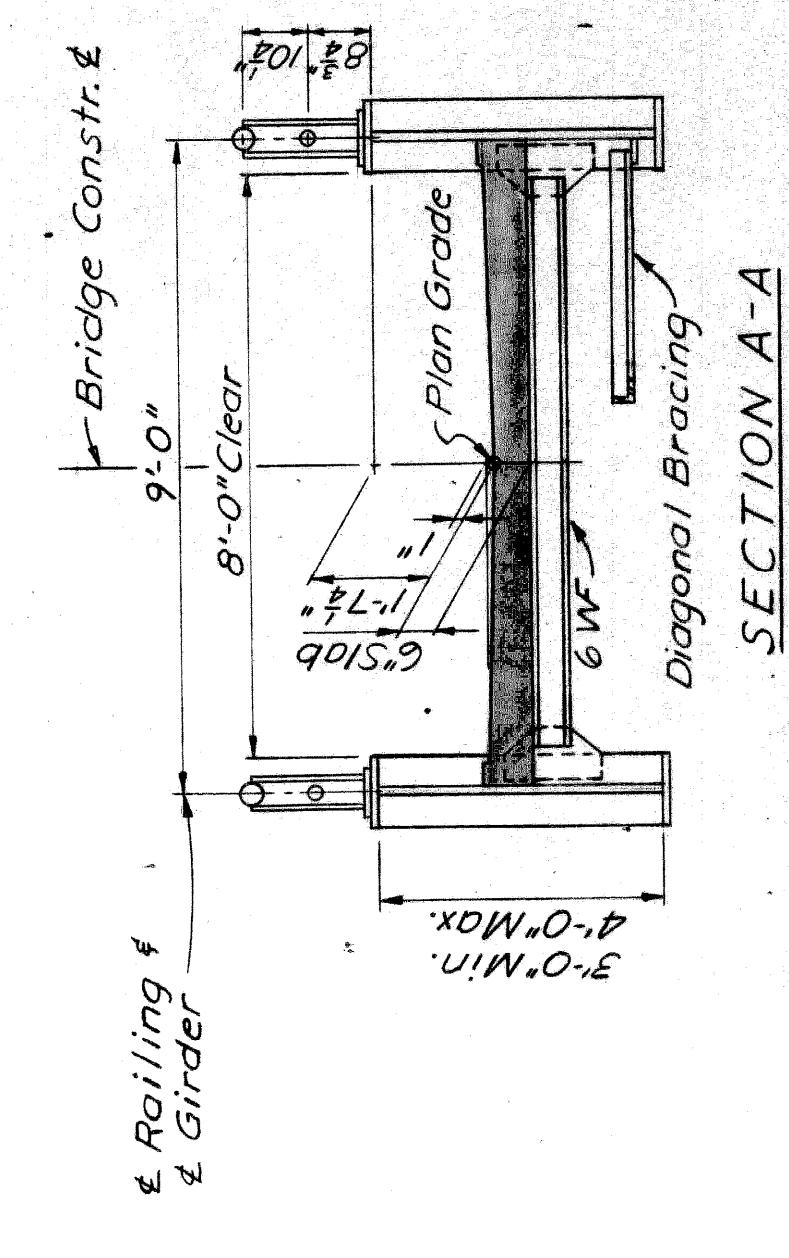
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MICHIGAN DEPARTMENT OF STATE HIGHWAYS
CLARENDON AVE. PEDESTRIAN BRIDGE
OVER THE JEFFRIES FREEWAY IN DETROIT

GENERAL PLAN OF STRUCTURE

CITY OF DETROIT
SHEET NO. 3 OF 5
DRAWN BY: R. G. WILSON
CHECKED BY: J. M. WATKINS
DATE: 3-68

ENGINEER OF DESIGN - CONSULTANTS
P04 of 821231



GENERAL NOTES
The design of this structure is based on the M.D.S.H. Specifications for the Design of Highway Bridges, 1958 edition and current A.A.H.O. Standard Specifications for Highway Bridges.

Live Load
Concrete Slab & Floor Beams 85 p.s.f.
Girders 60 p.s.f.
Alternate Live Loading One 5 Ton Truck plus impact.

The top of slab is parallel to the vertical curve and its tangents.
For details of Slope Protection, see Standard Sheet SP2.

Tamped Clay and Selected Excavated Material are incidental to Unclassified Excavation.
Granular Material - Class I is incidental to Foundation Drain.

The design is based on a maximum average foundation pressure of 1250 p.s.f. at Abuts. & 1800 p.s.f. at Pier based on D.L. only and a maximum foundation pressure of 2500 p.s.f. at Abuts. & 2250 p.s.f. at Pier based on D.L. and L.L.

Note:
Granular Material Class III Compacted in Place is 90 Cu.Yds. See Road Plans.

Pressures Applied to be 700 lb/sq. ft. we will advise next week

PRELIMINARY PLAN 'A'
DATED APRIL 29, 1968

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED: [Signature]
DESIGN SUPERVISING ENGINEER

APPROVED: [Signature]
ENGINEER OF DESIGN CONSULTANTS

JOB NO. PW 99041

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DRAWN BY: [Signature]
SQUAD BOSS: [Signature]

DATE: []

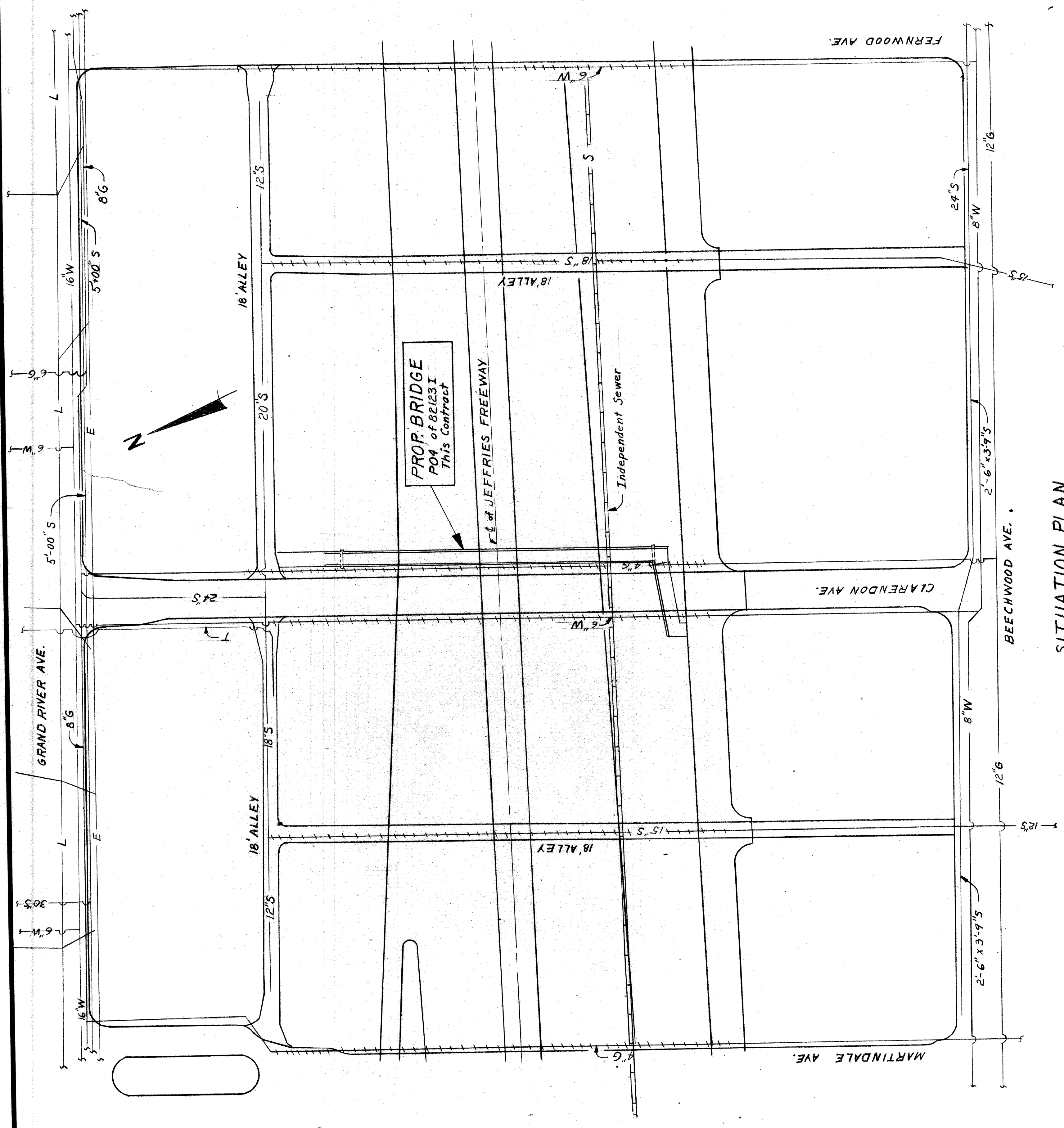
REVISIONS:

NO.	DESCRIPTION	DATE	BY

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
CLARENDON AVE. PEDESTRIAN BRIDGE
OVER THE JEFFRIES FREEWAY IN DETROIT

GENERAL PLAN OF STRUCTURE

P04 of 821231



LEGEND

UTILITY	Existing	New Work by Others	New Work by Contractor
Michigan Consolidated Gas Co.	— G —	— S —	— S —
Detroit Water Depart.	— W —	— S —	— S —
Expwy. and City of Detroit Sewers	— S —	— T —	— T —
Michigan Bell Telephone Co.	— T —	— E —	— E —
Detroit Edison Co.	— E —	— L —	— L —
Public Lighting Commission	— L —		

NOTE:
 Bridge construction and utility alterations are included in package contract for control section 82123 I.
 The contractor shall locate all active underground utilities prior to starting work and shall conduct his operations in such a manner as to insure that those utilities not requiring relocation will not be disturbed.

SITUATION PLAN
 Scale: 1" = 40'-0"

PRELIMINARY PLAN "A" DATED APRIL 29, 1968

MICHIGAN DEPARTMENT OF STATE HIGHWAYS
 CLARENDON AVE. PEDESTRIAN BRIDGE
 OVER THE JEFFRIES FREEWAY IN DETROIT

EXISTING UTILITIES AND PROPOSED ALTERATIONS

NO.	DESCRIPTION	DATE	BY

APPROVED: STRUCTURAL ENGINEER
 JOB No. PW 990 (4)

CITY OF DETROIT
 PLANS PREPARED BY
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

CITY OF DETROIT
 CLARENCE BROS.
 DRAWN BY P. ROSEK 3-68
 CHECKED BY J.H. / J.H. / J.H.
 SHEET 5 OF 5

P04 of 82123 I