

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF TRANSPORTATION AND FEDERAL HIGHWAY ADMINISTRATION FEDERAL AID URBAN PROJECT NO. MICHIGAN BRO 82 (155) CONTROL SECTION MCS 82025 JOB NO. 30288A

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN
 ACCORDANCE WITH THE MICHIGAN DEPARTMENT OF TRANSPORTA-
 TION CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL
 SPECIFICATIONS.

| F.H.W.A. STATE | | PROJECT NO. | | FISCAL YEAR | |
|----------------|------|-------------|--------|-------------|-------------|
| 5 | MICH | | | | |
| | | | | | |
| STREET | | CITY | COUNTY | TWP | SHEET TOTAL |
| | | | | | |
| NO. | | | | SHEETS | |

CITY OF DETROIT
 BRIDGE NO. BW-246
 MDOT STRUCTURE
 NO. 0108300 802

ITEM NO. PB 0681

CONTRACT FOR
 BRIDGE RECONSTRUCTION
 LOCAL AUTHORITY APPROVAL
 CITY OF DETROIT
 CITY ENGINEERING DEPARTMENT

APPROVED BY: *E. M. [Signature]* DEPUTY DIRECTOR
 DATE: 11-1-89

APPROVED BY: *Charles E. [Signature]* DIRECTOR
 DATE: 10-31-89

PREPARED UNDER SUPERVISION OF

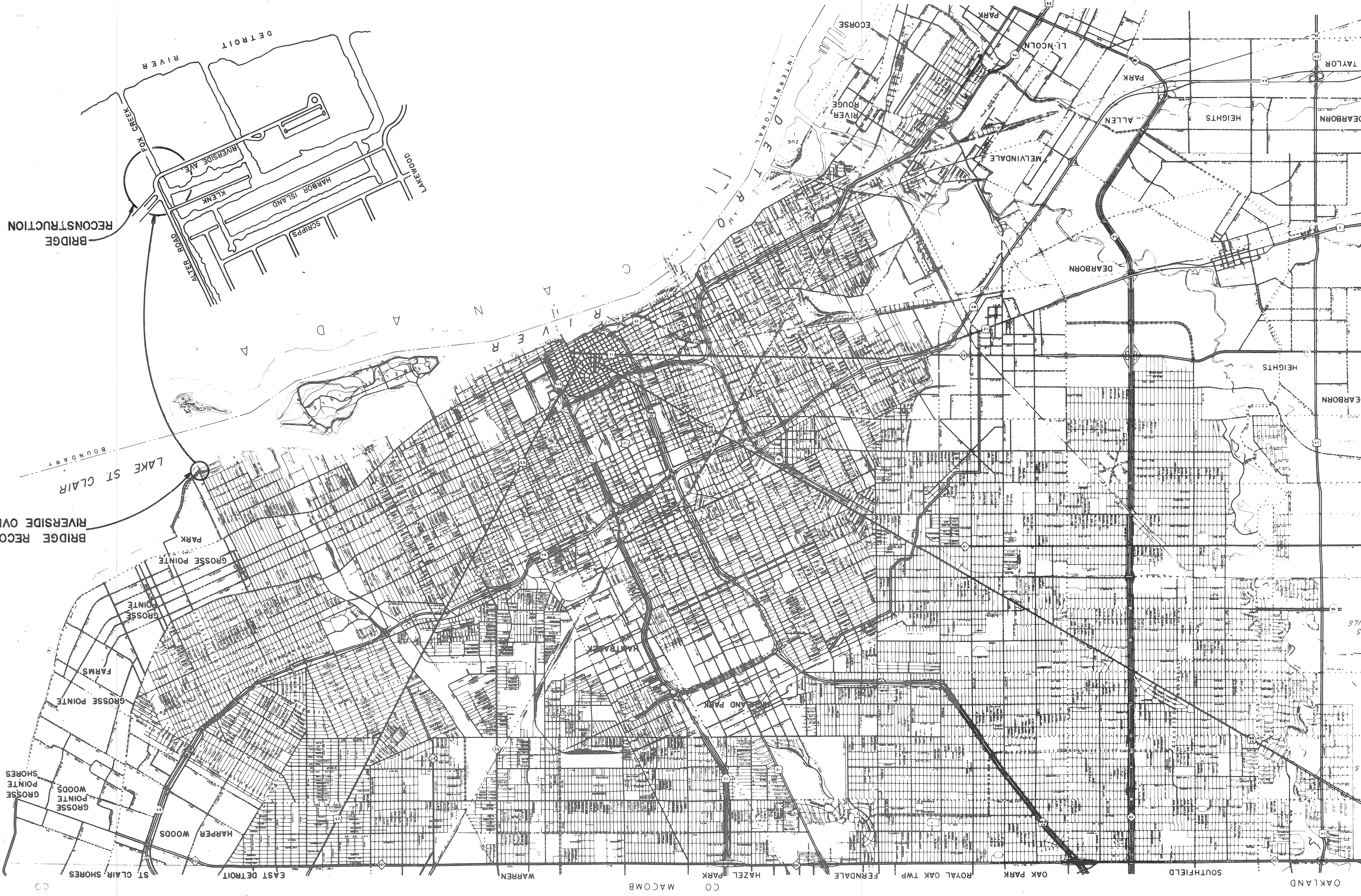
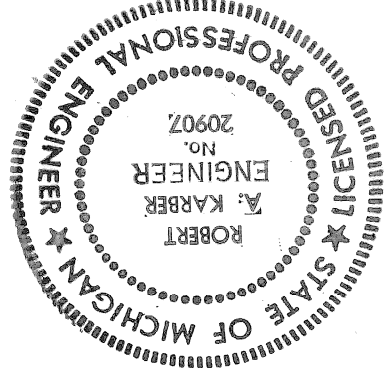
REGISTERED PROFESSIONAL ENGINEER
 REGISTRATION NO. 20907

ADDRESS

CITY OF DETROIT

ORGANIZATION

DETROIT, MICHIGAN



BRIDGE TITLE SHEET

S1 GENERAL PLAN OF SITE

S2 UTILITY DRAWING AND SOIL BORINGS

S3 GENERAL PLAN OF STRUCTURE DETAILS

S4 GENERAL PLAN OF STRUCTURE DETAILS

S5 PILING PLAN AND DETAILS

S6 SHEET PILING, FENCING AND TIEBACK DETAILS

S7 ABUTMENT B: WINGWALLS R-1 & R-2

S8 ABUTMENT B: WINGWALL B-1 QUANTITIES

S9 WINGWALL B-2: ABUTMENT AND WINGWALL SECT.

S10 RETAINING WALLS R-1 & R-2: GENERAL NOTES

S11 RETAINING WALL B-1: UNITS 1-2, SECTIONS

S12 RETAINING WALL B-1: UNITS 3-7

S13 RETAINING WALL B-2: UNITS 1-2, SECTIONS

S14 RETAINING WALL B-2: UNITS 3-8

S15 RETAINING WALL B-2: UNITS 7-11

S16 WALL SECTIONS AND DETAILS

S17 SLAB - BOTTOM REINFORCING BARS

S18 SLAB - TOP REINFORCING BARS

S19 DECK AND PIER DETAILS

S20 TOP OF SLAB ELEVATIONS

S21 SUBSTRUCTURE STEEL REINFORCEMENT DETAILS

S22 SUPERSTRUCTURE STEEL REINFORCEMENT DETAILS

C1 FINAL SITE PLAN

C2 DETAILED GRADERS

C3 DETOUR ROADWAY

C4 ALIGNMENT AND STRIKE OUT

C5 REMOVALS

W1 GENERAL NOTES

W2 RIVERSIDE PLAN & PROFILE

W3 ALTER PLAN & PROFILE

W4 MISC. DETAILS

E1 PUBLIC LIGHTING DET. - LEGEND MAP

E2 GENERAL INFORMATION & AREA MAP

E3 GENERAL PLAN - STAGE I

E4 GENERAL PLAN - FINAL STAGE

E5 MISC. ELECTRICAL CONNECTIONS & DETAILS

E6 MISC. CABLE & WIRE SPECIFICATIONS, DETAILS

E7 MISC. OVERHEAD DETAILS

E8 MISC. OVERHEAD DETAILS

E9 MISC. OVERHEAD DETAILS

E10 MESSENGER WIRE INSTALLATION & DETAILS

E11 TRANSFORMER POLE & CABLE POLE DETAILS

R1 ORIGINAL RIVERSIDE BRIDGE DESIGN

R2 ALTERNATE BRIDGE DETAILS

Q-1 QUANTITY SHEET

Q-2 " " " " " "

II 41 E

II 45 E1

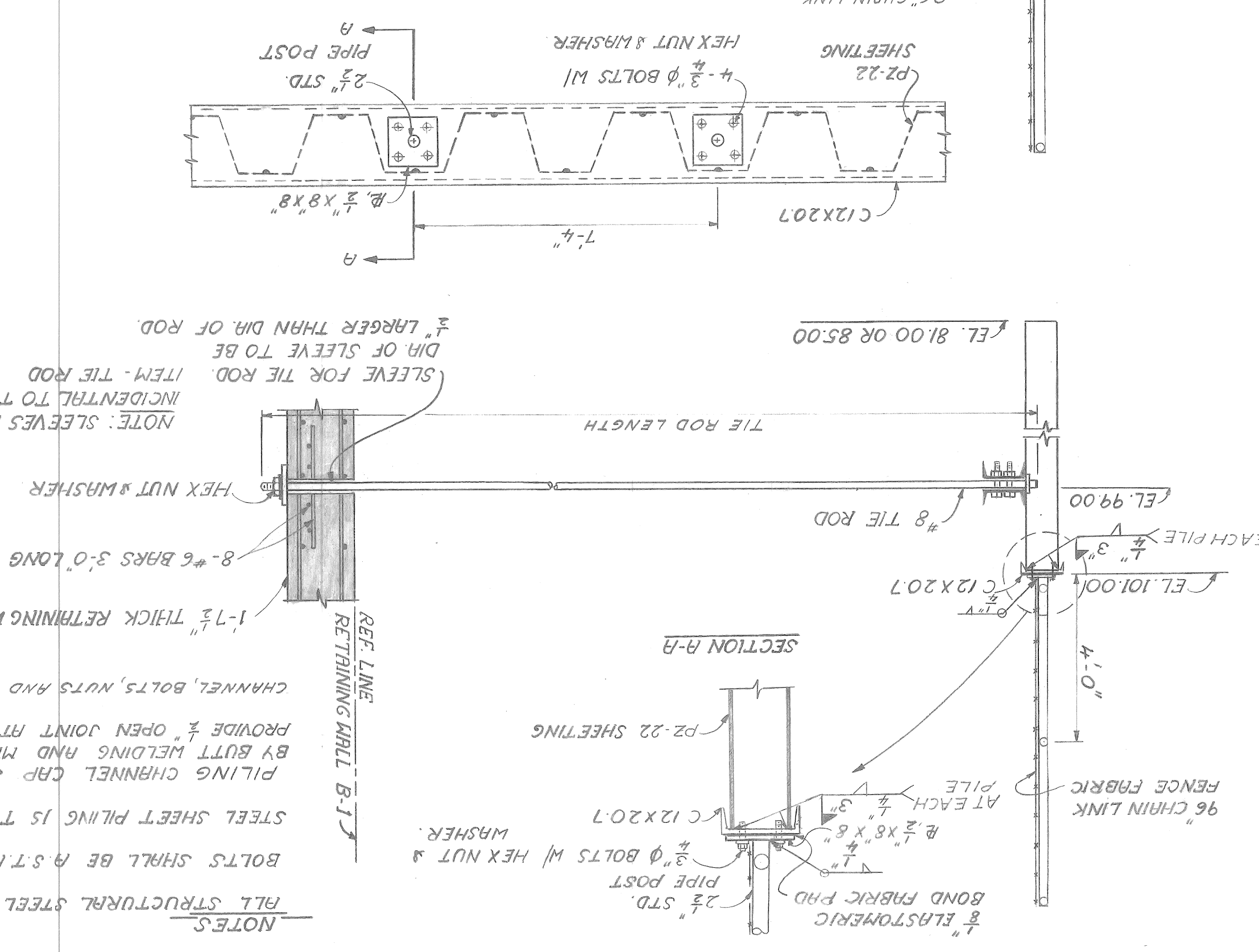
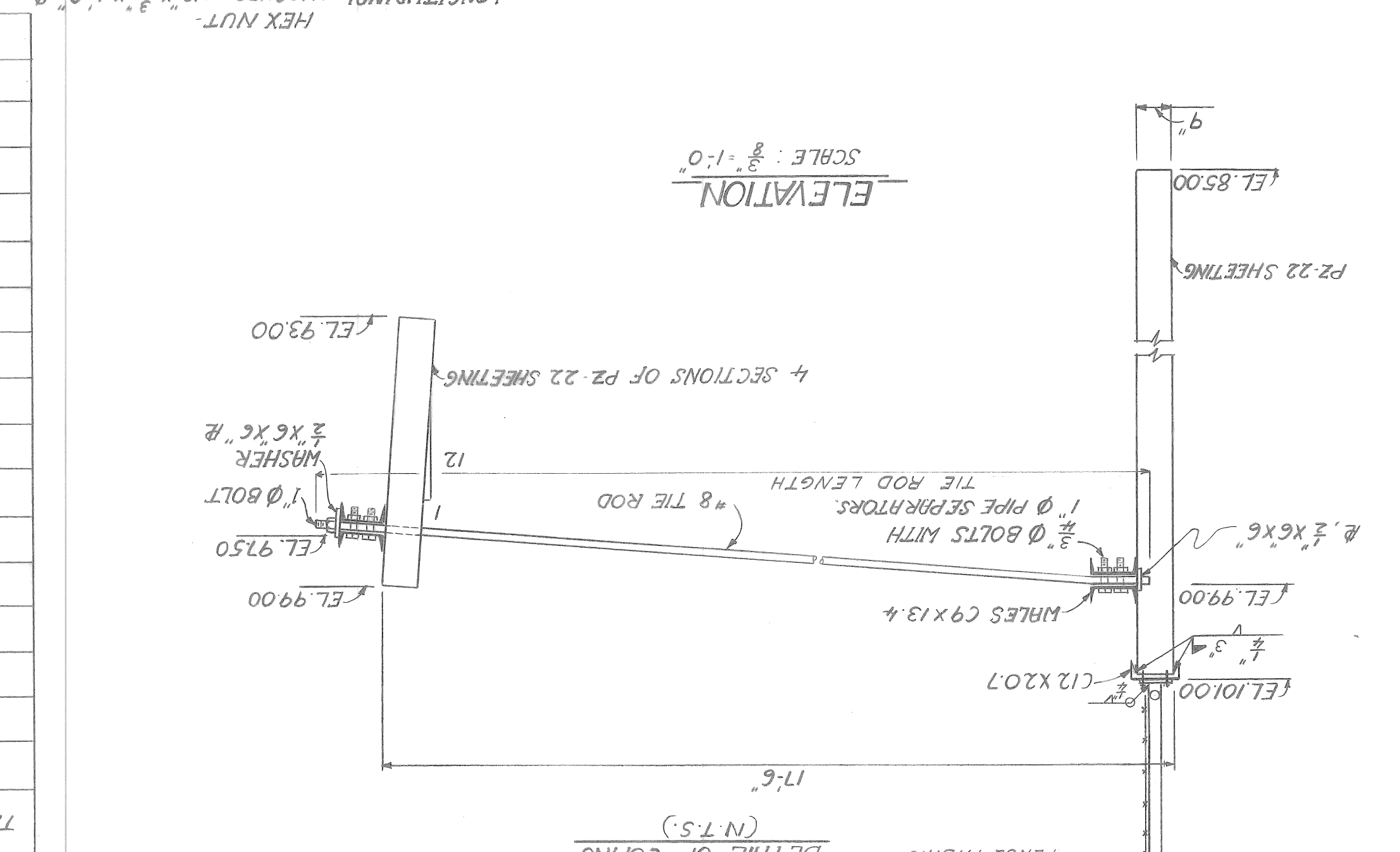
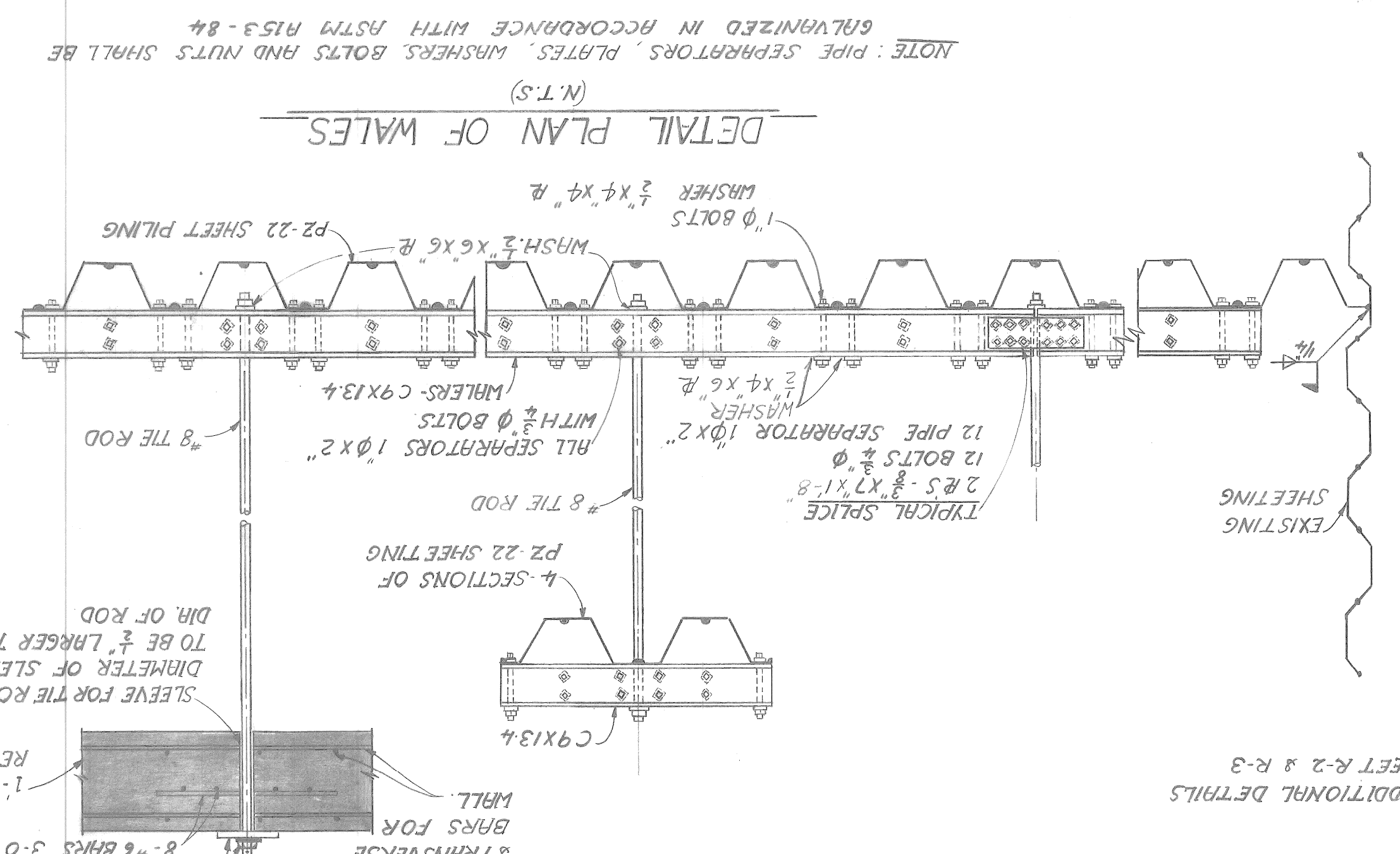
II 17 E1

II 18 C

II 103 C

STANDARD PLANS

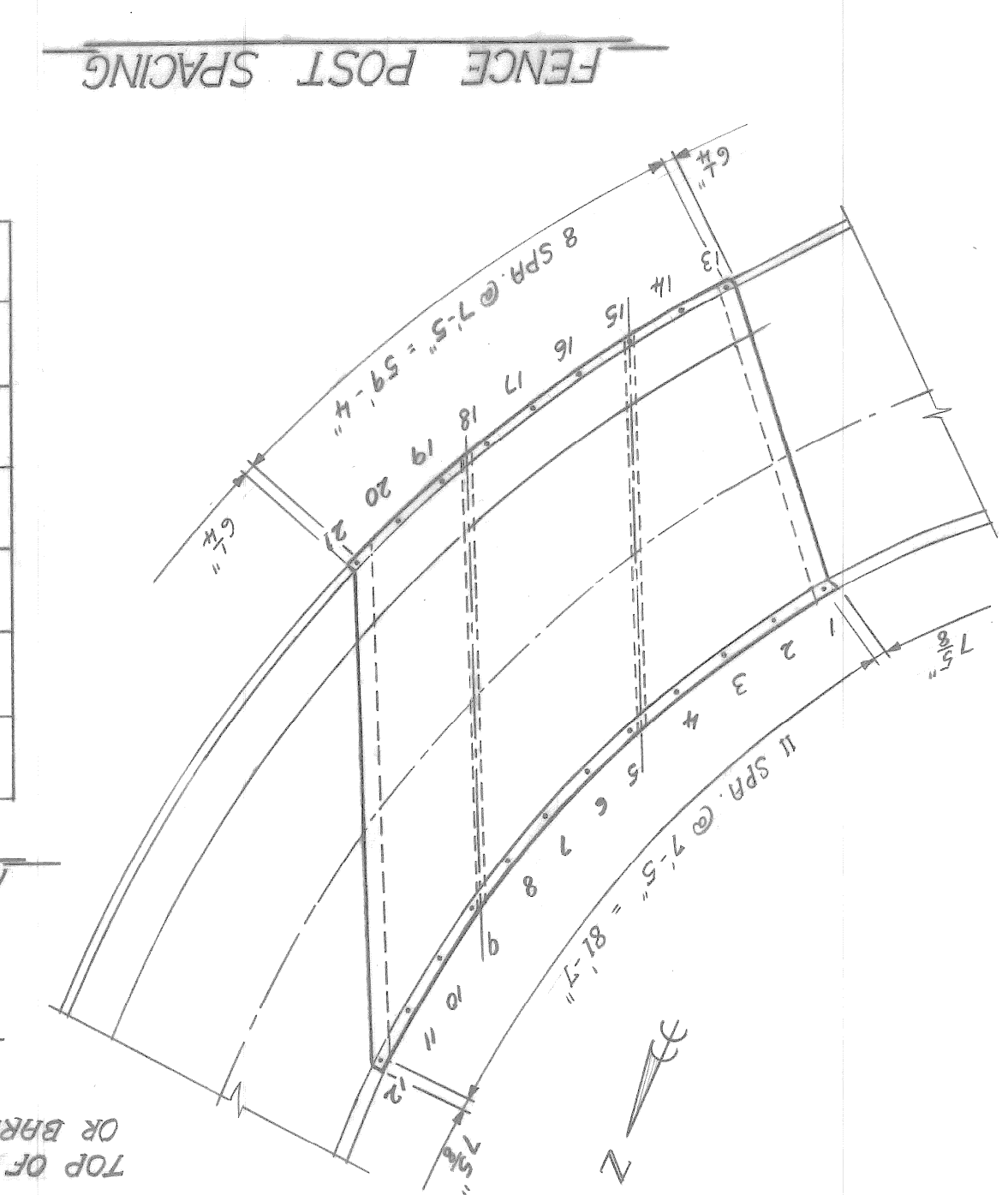
KLENK BRIDGE



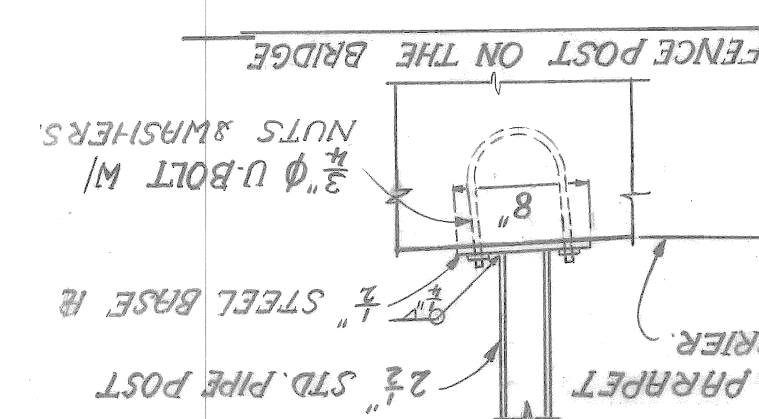
| THE ROD NUMBER | LENGTH (L.F.) |
|----------------|---------------|
| 7-1 | 7:2" |
| 7-2 | 11:3" |
| 7-3 | 14:6" |
| 7-4 | 16:6" |
| 7-5 | 17:9" |
| 7-6 | 18:1" |
| 7-7 | 18:3" |
| 7-8 | 18:6" |
| 7-9 | 18:8" |
| 7-10 | 18:11" |
| 7-11 | 19:1" |
| 7-12 | 19:4" |
| 7-13 | 19:6" |
| 7-14 | 19:8" |
| 7-15 | 19:11" |
| 7-16 TO 7-19 | 18:3" |
| 7-20 TO 7-26 | 18:3" |

NOTES:

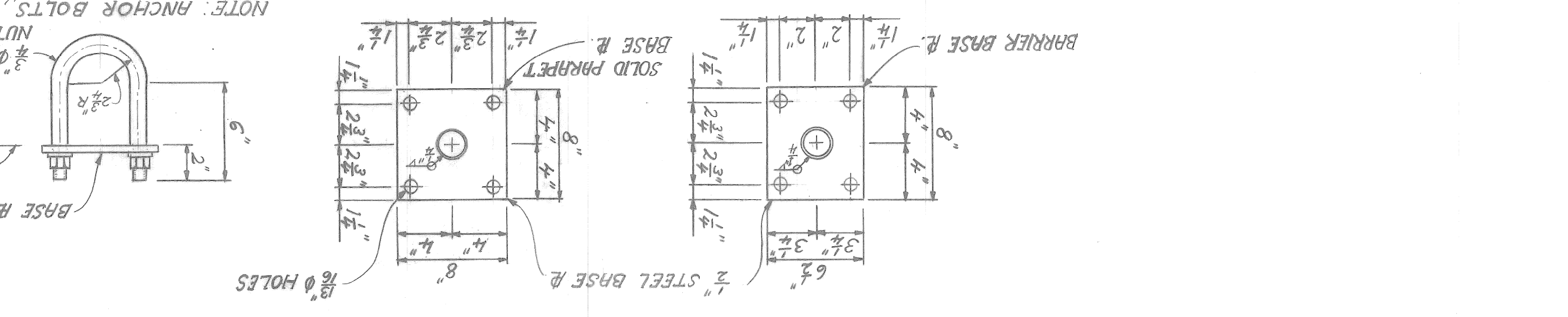
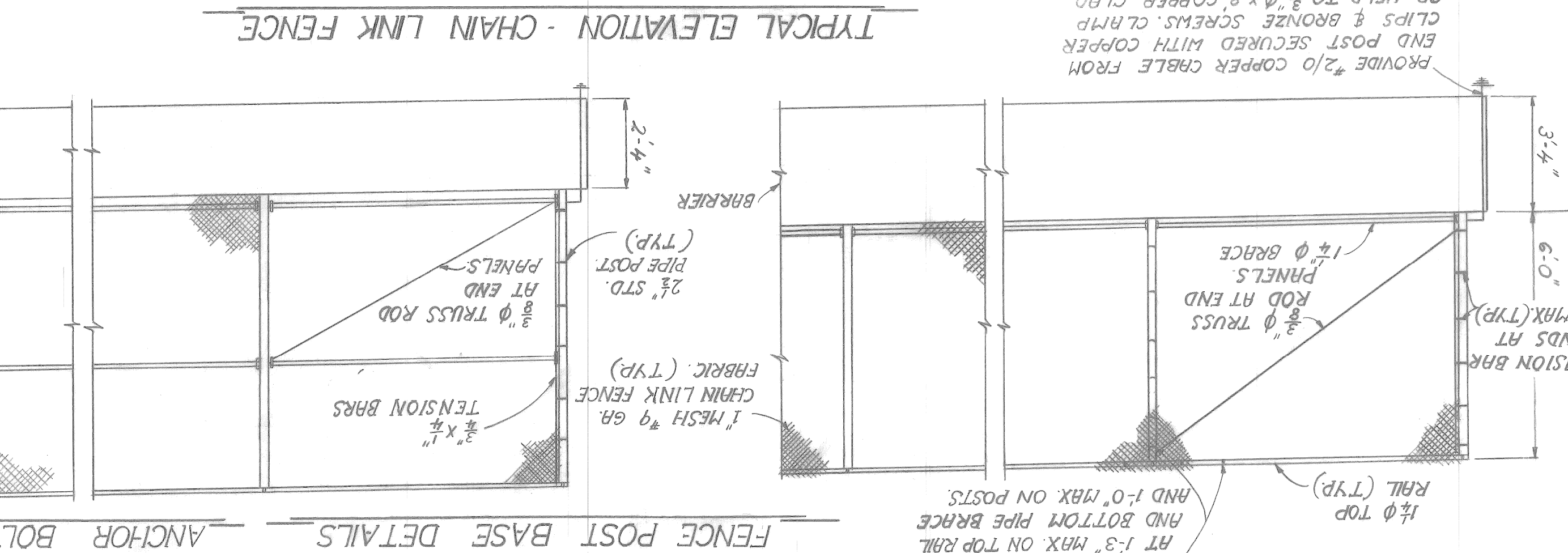
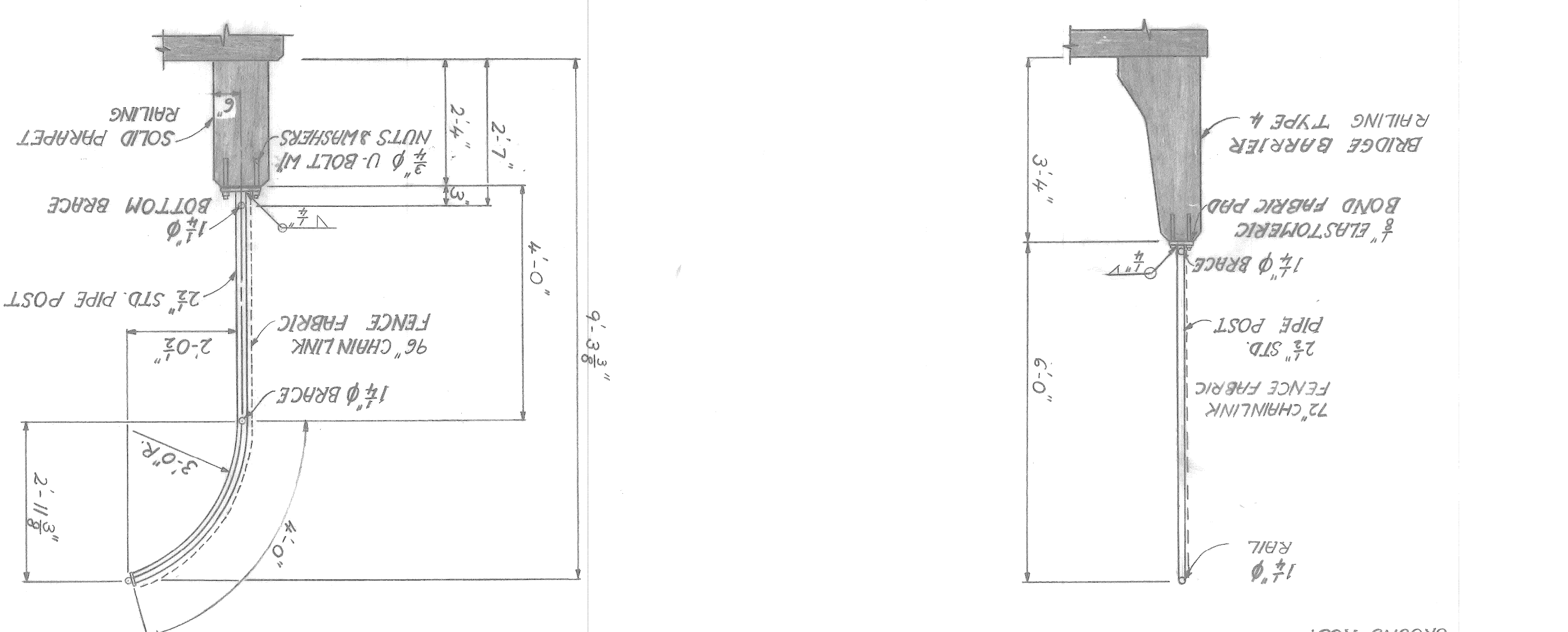
- ALL STRUCTURAL STEEL IS TO BE A.S.T.M. A36
- BOLTS SHALL BE A.S.T.M. A307
- STEEL SHEET PILING IS TO BE A.S.T.M. B328
- PILING CHANNEL CAP SHALL BE MADE CONTINUOUS BY BUTT WELDING AND MITERING AT CORNERS
- PROVIDE 1/2" OPEN JOINT AT 50 FT. INTERVALS
- CHANNEL, BOLTS, NUTS AND WASHERS TO BE GALVANIZED.



| POST NUMBERS | SLOPE |
|---------------------|---------|
| 10 | 1:12 |
| 7, 8, 9 | 1/2:12 |
| 4, 5, 6, 19, 20, 21 | 3/8:12 |
| 1, 2, 3, 16, 17, 18 | 1/4:12 |
| 13, 14, 15 | 5/16:12 |



TYPICAL POST DETAILS



PAY QUANTITIES

| ITEM | UNIT | AMOUNT |
|--|--------|--------|
| PERMANENT STEEL SHEET PILING | S. F. | 8323 |
| TIE ROD | E.A. | 26 |
| STRUCTURAL STEEL FURNISHING & FABRICATION (ROLLED) | L.B.S. | 18941 |
| STRUCTURAL STEEL ERECTION (ROLLED) | L.B.S. | 18941 |
| CHAIN LINK FENCE (SPECIAL) | L.F. | 295 |

STEEL FOR POSTS SHALL CONFORM TO ASTM A53 STRUCTURES

SEE SPECIAL PROVISION FOR PEDESTRIAN FENCING

AS SHOWN ON THE PLAN.

ALL POSTS AND TUBING SHALL BE FINISHED WITH SUITABLE CONNECTIONS AND POSTS SHALL BE BENT IN THE SHOP AND SHEET PILING FENCING.

SEE SPECIAL PROVISION FOR ELECTRICAL GROUNDING SYSTEM

FABRIC FASTENERS SHALL BE DOUBLE-TWISTED, 9 GAUGE, GALVANIZED STEEL.

ALL FABRIC FOR CHAIN LINK FENCE SHALL BE FINISHED WITH 6M-246 FOX CREEK RIVERSIDE DEPARTMENT OF PUBLIC WORKS

KNUCKLING AT BOTH SELVAGES.

ALL POSTS SHALL BE 2 7/8" O.D. PIPE OR TUBE WEIGHING 5.79 LBS PER FT.

ALL POSTS AND ALL OTHER COMPONENTS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A153, ASTM A153 RESPECTIVELY.

NOTES:

- ALL FABRIC FOR CHAIN LINK FENCE SHALL BE FINISHED WITH 6M-246 FOX CREEK RIVERSIDE DEPARTMENT OF PUBLIC WORKS
- KNUCKLING AT BOTH SELVAGES.
- ALL POSTS SHALL BE 2 7/8" O.D. PIPE OR TUBE WEIGHING 5.79 LBS PER FT.
- ALL POSTS AND ALL OTHER COMPONENTS ARE TO BE GALVANIZED IN ACCORDANCE WITH ASTM A153, ASTM A153 RESPECTIVELY.
- FABRIC FASTENERS SHALL BE DOUBLE-TWISTED, 9 GAUGE, GALVANIZED STEEL.
- SEE SPECIAL PROVISION FOR ELECTRICAL GROUNDING SYSTEM
- FENCING.
- AND SHEET PILING.
- CONNECTIONS AND POSTS SHALL BE BENT IN THE SHOP AS SHOWN ON THE PLAN.
- SEE SPECIAL PROVISION FOR PEDESTRIAN FENCING
- STRUCTURES
- STEEL FOR POSTS SHALL CONFORM TO ASTM A53

CITY OF DETROIT city engineering department for DEPARTMENT OF PUBLIC WORKS BRIDGE RECONSTRUCTION

DESIGNED BY: J.K. CHECKED BY: J.K. APPROVED BY: _____

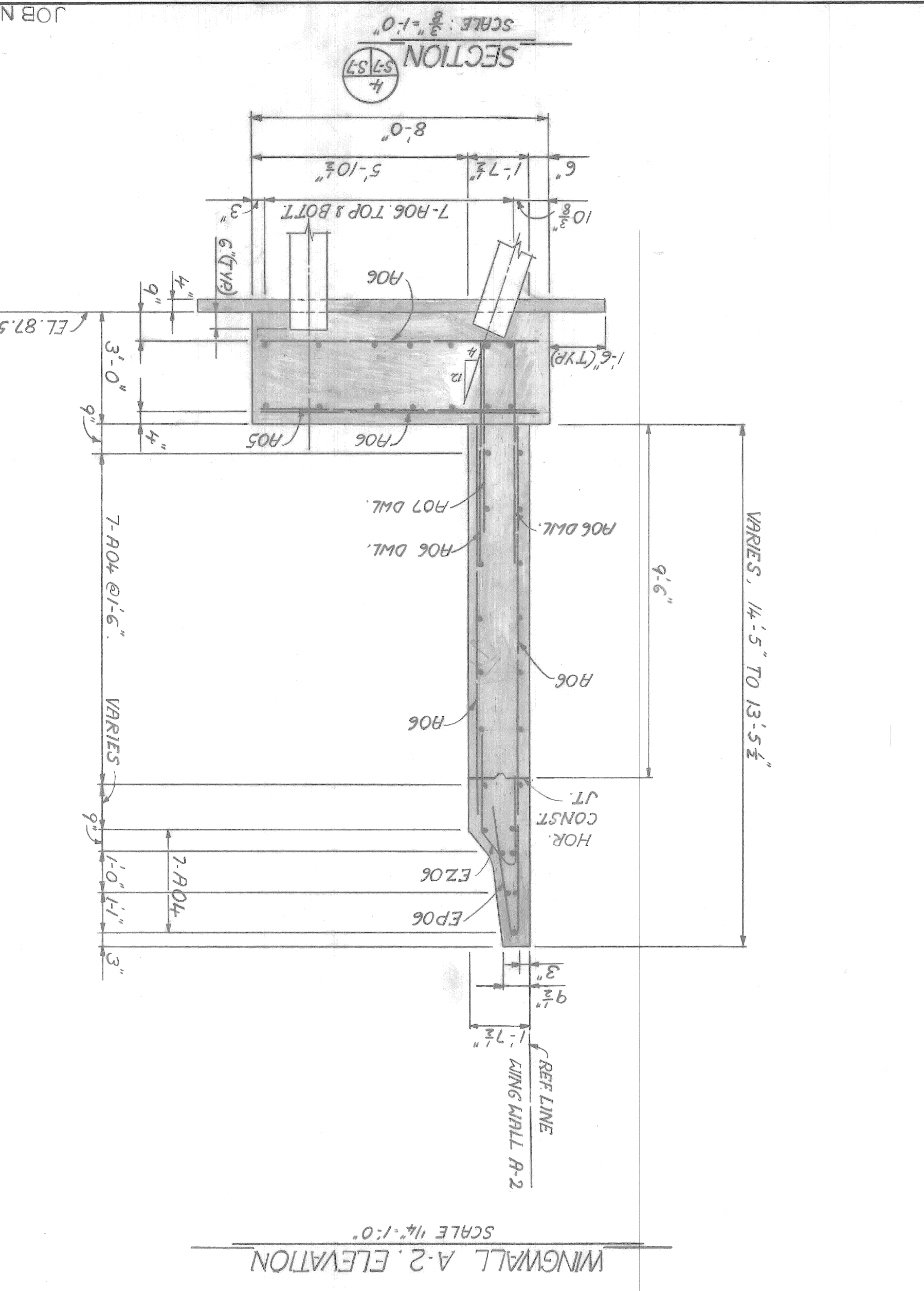
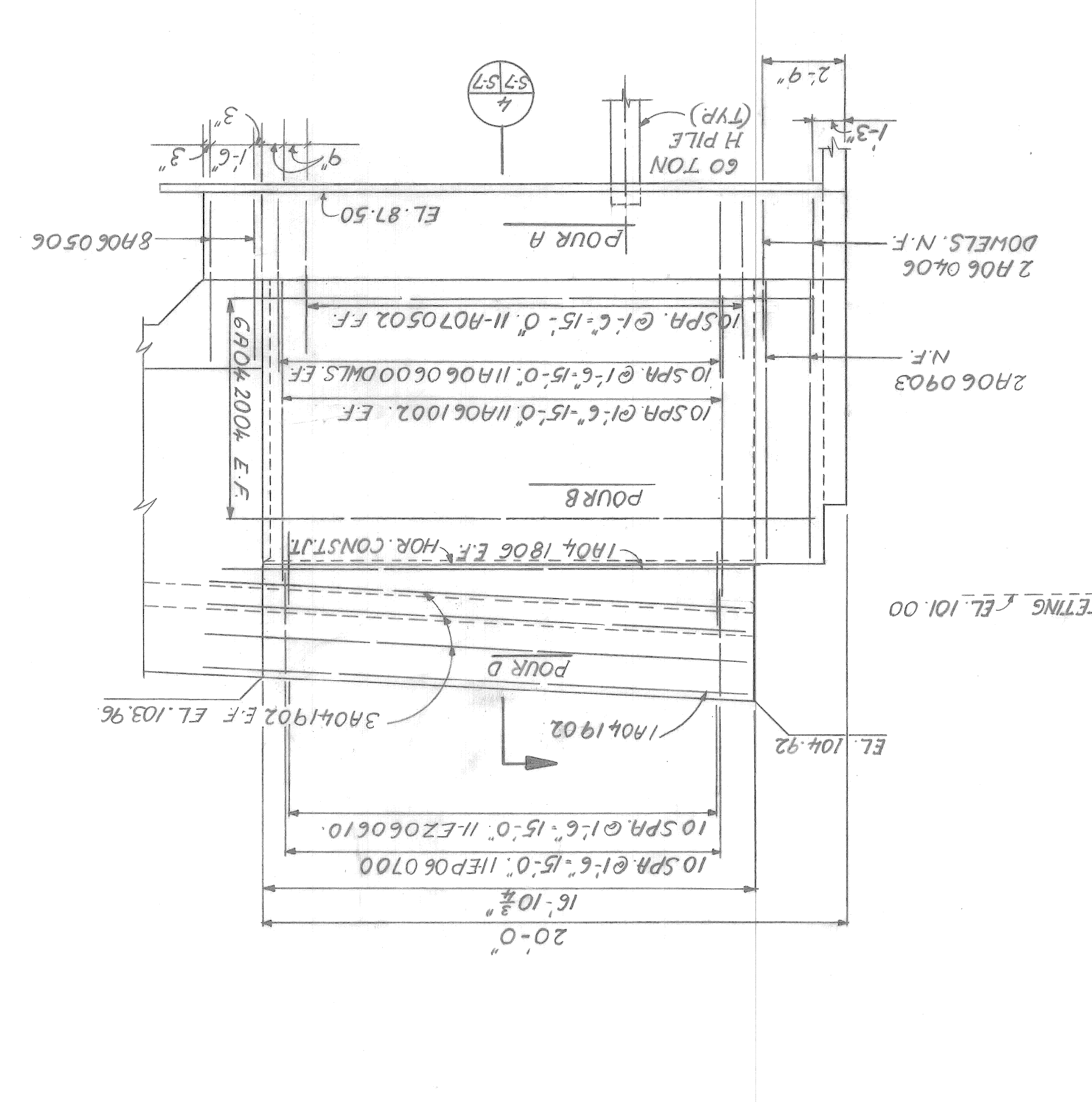
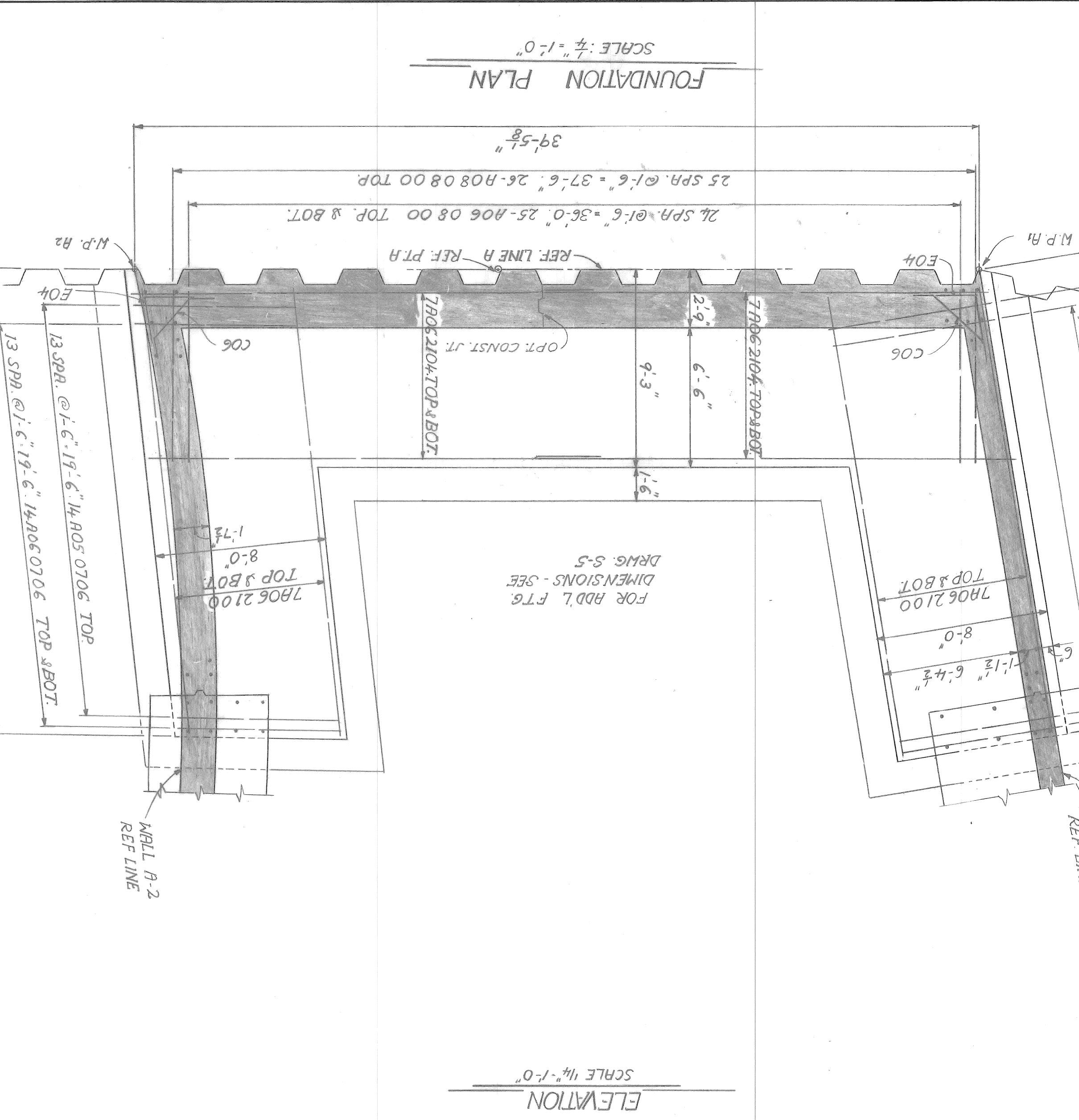
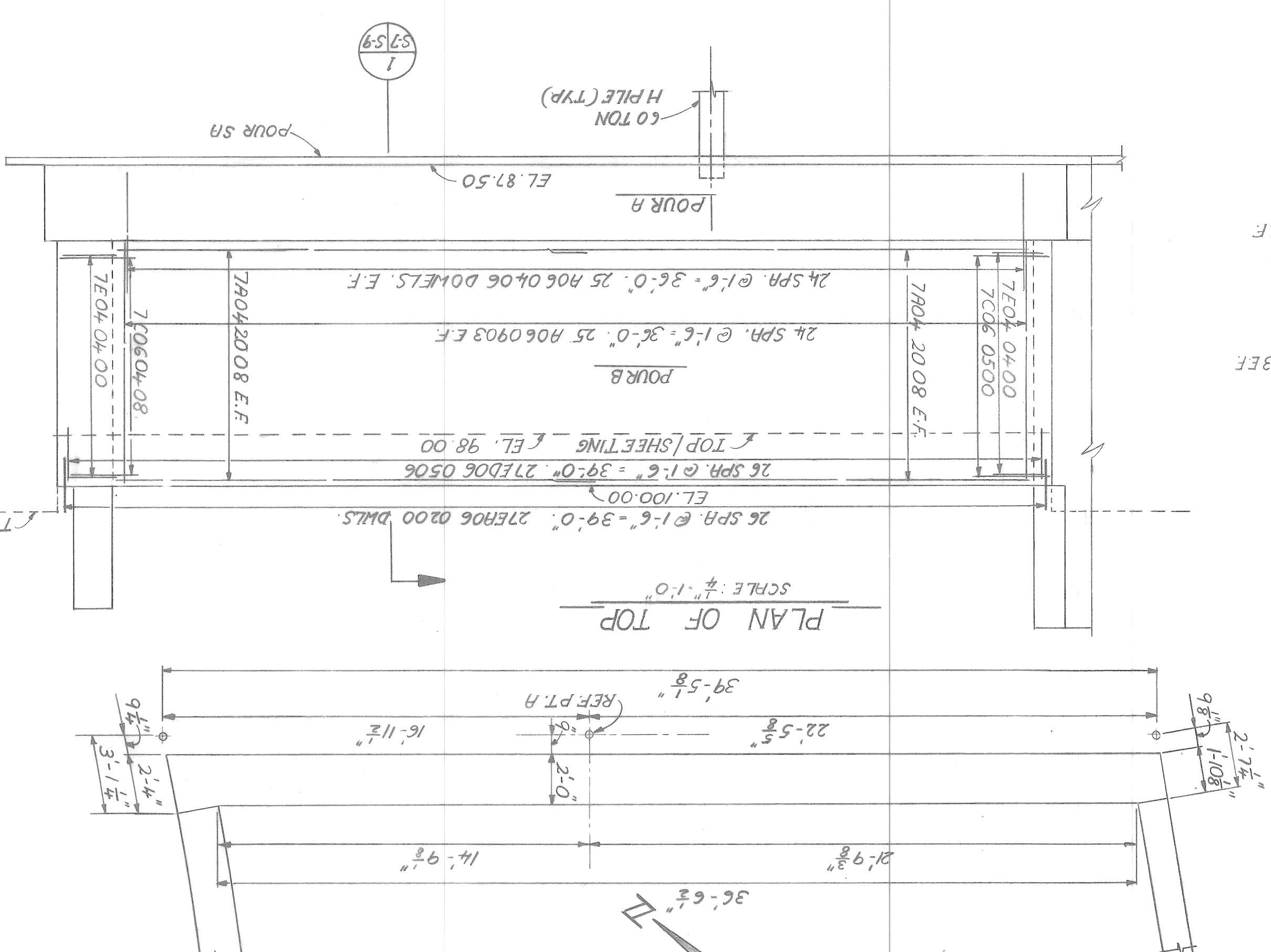
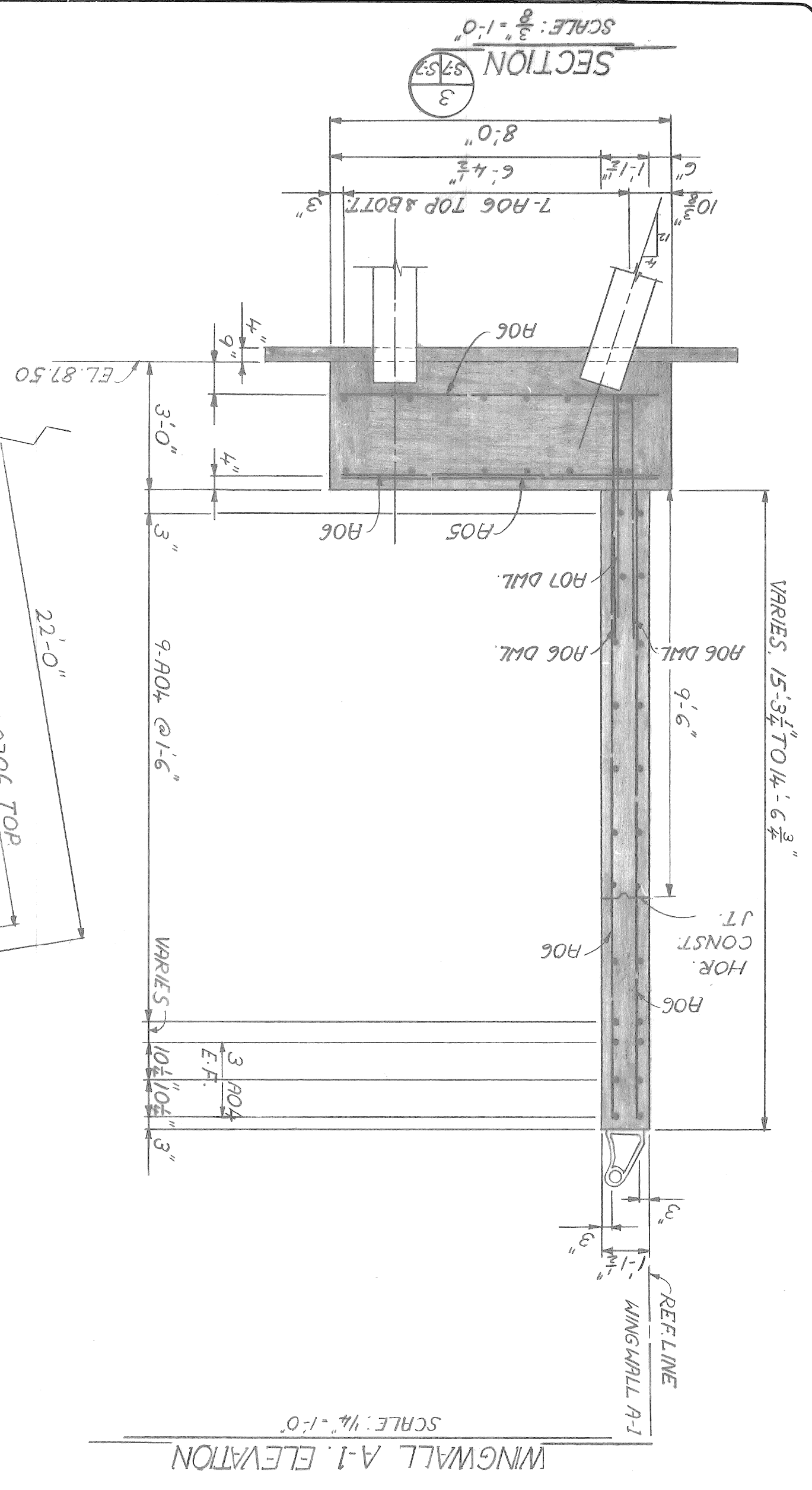
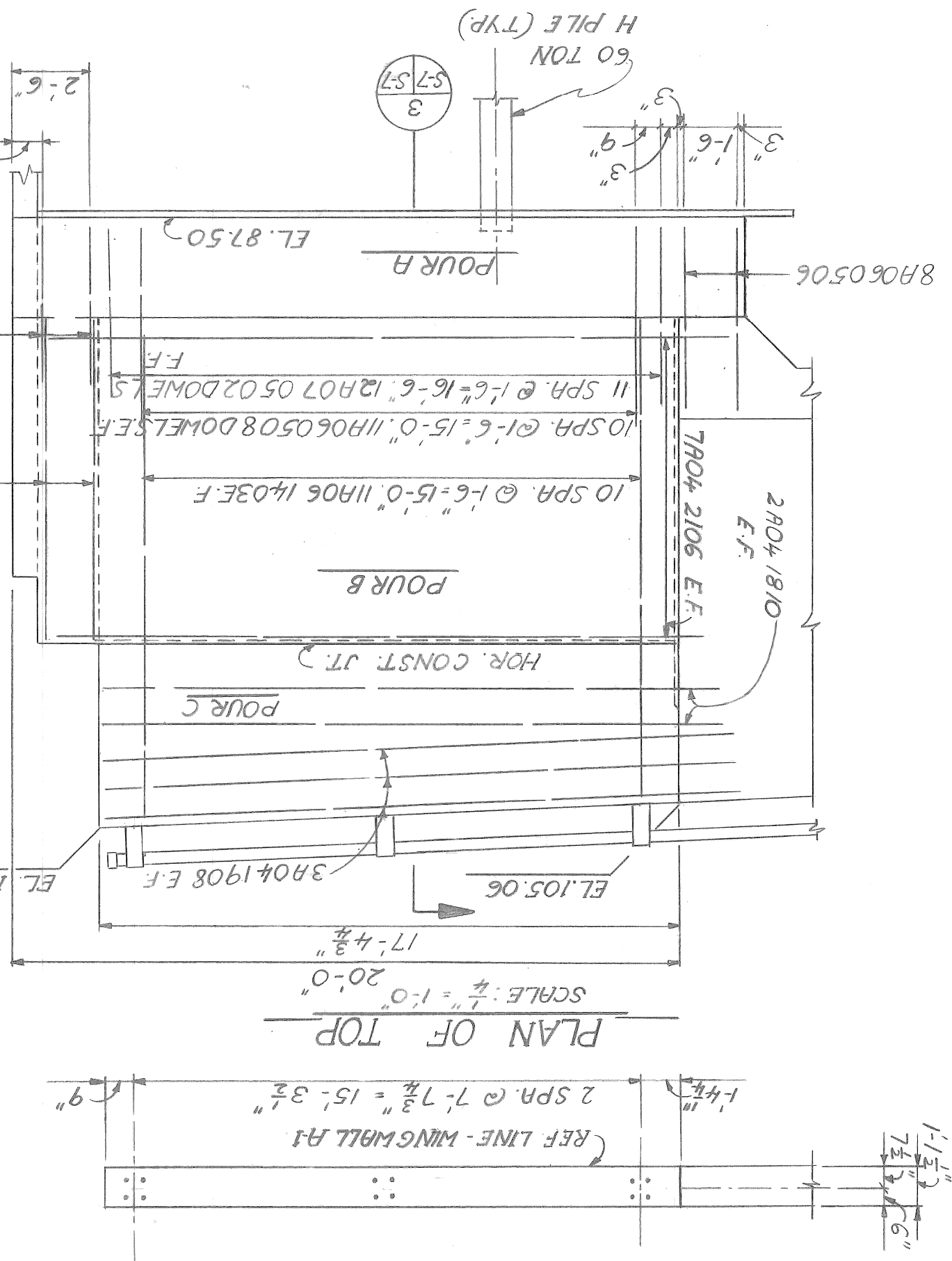
DATE: NOV 89

DRAWING NO. 5-6

SHEET 18941 OF 18941

CONTRACT NO. a.o.

JOE NO. 30288A



| REV | NO | DATE | BY | CHK'D | APP'D |
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designed by _____
 drawn by J.K.
 checked by _____
 approved by _____

CITY OF DETROIT
 city engineering department
 for DEPARTMENT OF PUBLIC WORKS

BRIDGE RECONSTRUCTION
 RIVERSIDE AVENUE OVER FOX CREEK
 BW-246
 ABUTMENT A₂ WINGWALLS
 A-1 & A-2

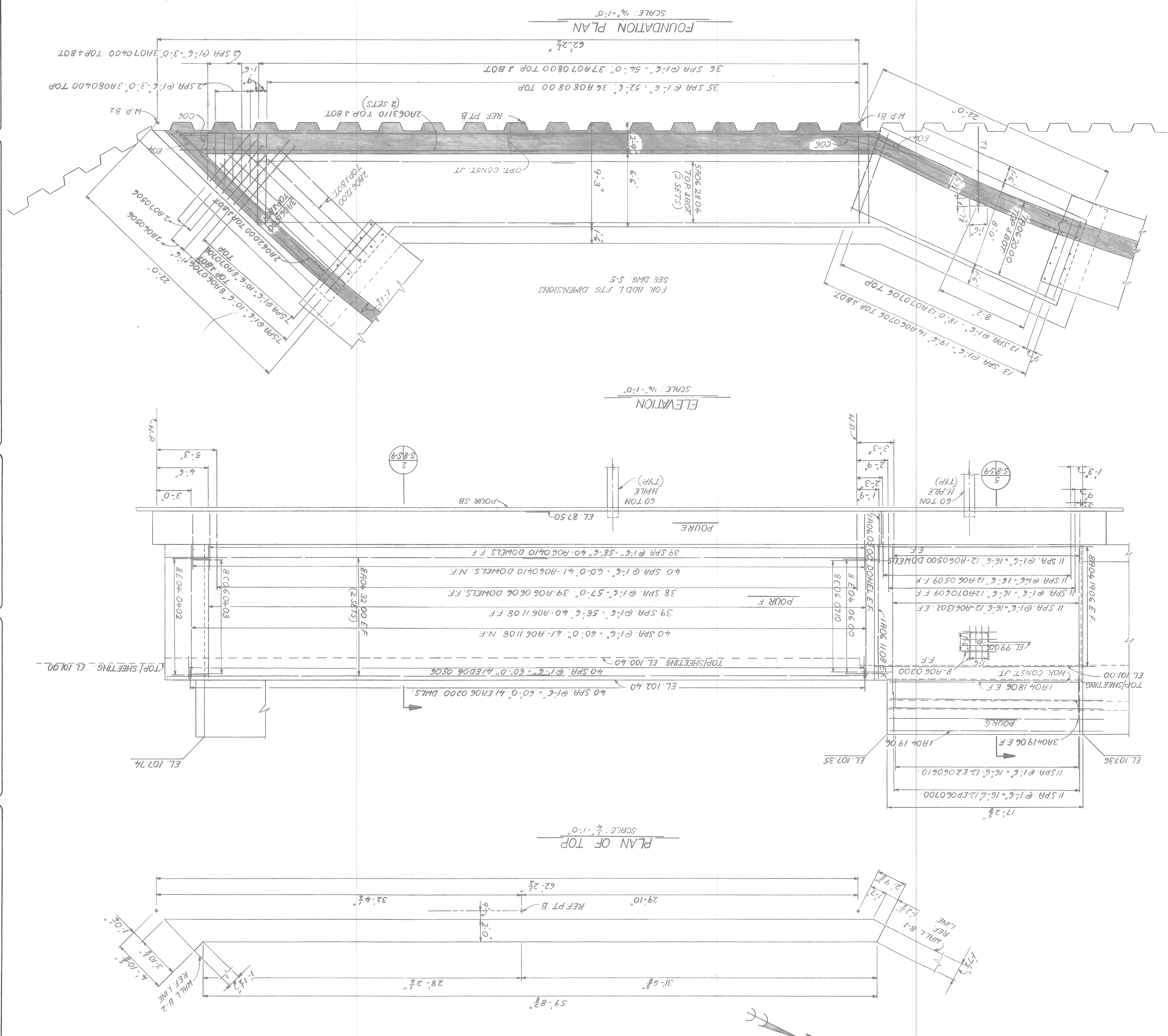
a.o. contract no. _____
 sheet of _____
 drawing no. S-2
 date NOV. 89
 JOB NO. 30288A

| PRY QUANTITIES | UNIT | QUANTITY |
|---|-------|----------|
| JOINT WATER PROOFING | S. F. | 270 |
| SUBSTRUCTURE CONCRETE | C. Y. | 651.5 |
| PENETRATING CONCRETE SEALER FOR CONCRETE SURFACES | S. F. | 748 |
| CONCRETE GRADE 35.5-SUBTOTING | C. Y. | 20.7 |

SUBSTRUCTURE CONCRETE POUR QUANTITIES

| POUR | CY | POUR | CY |
|------|------|------|------|
| A | 63.2 | Y | 9.3 |
| B | 48.4 | Z | 8.0 |
| C | 3.9 | HA | 3.9 |
| D | 3.4 | HB | 11.8 |
| E | 79.8 | HC | 13.5 |
| F | 84.6 | HD | 10.2 |
| G | 4.0 | HE | 11.1 |
| H | 3.5 | HF | 14.0 |
| J | 11.2 | HG | 12.0 |
| K | 11.2 | HH | 11.9 |
| L | 7.7 | HJ | 12.5 |
| M | 12.2 | HK | 11.6 |
| N | 2.9 | HL | 5.5 |
| P | 3.5 | HM | 10.9 |
| Q | 9.9 | HN | 7.3 |
| R | 17.1 | HP | 10.5 |
| S | 8.2 | HQ | 20.0 |
| T | 13.5 | HR | 9.4 |
| U | 12.6 | HS | 8.3 |
| V | 11.5 | HT | 4.0 |
| W | 10.5 | HW | 7.2 |
| X | 10.7 | HX | 5.1 |
| SA | 9.3 | SB | 11.4 |

TOTAL SUBSTRUCTURE CONCRETE QUANTITY = 651.5 CYD.
TOTAL CONCRETE GRADE 35.5 - SUBTOTING = 20.7 CU.YD.



CITY OF DETROIT
City engineering department
for DEPARTMENT OF PUBLIC WORKS
BRIDGE RECONSTRUCTION
RIVERSIDE AVENUE OVER FOX CREEK
BW-246
ABUTMENT B;
WINGWALL B1;
QUANTITIES

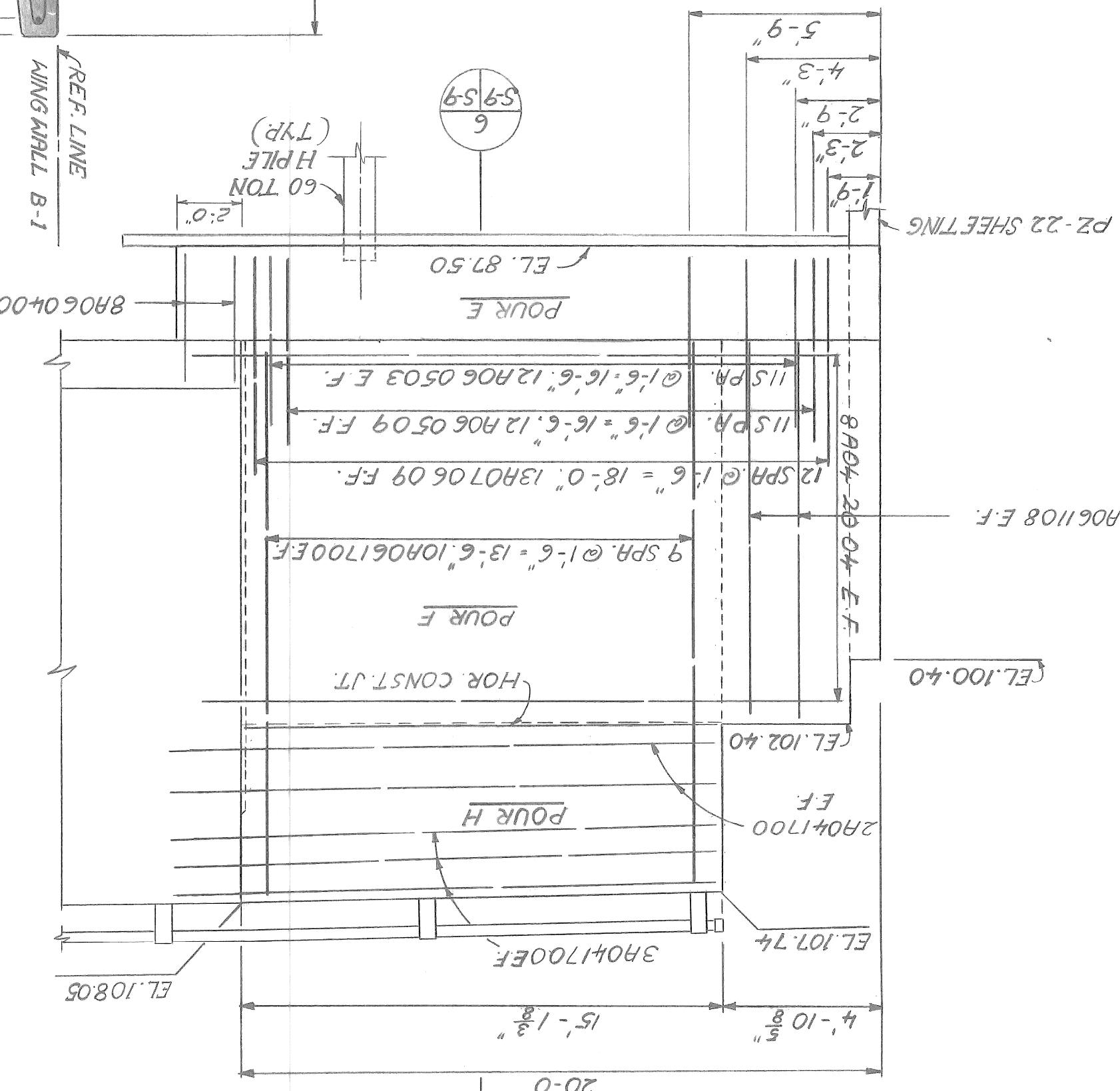
a.o. contract no. sheet of drawing no. date
JOB NO. 30288A NOV. 89

| NO. | DATE | BY | REVISIONS |
|-----|------|----|-----------|
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designed by _____
drawn by J.K. _____
checked by _____
approved: _____

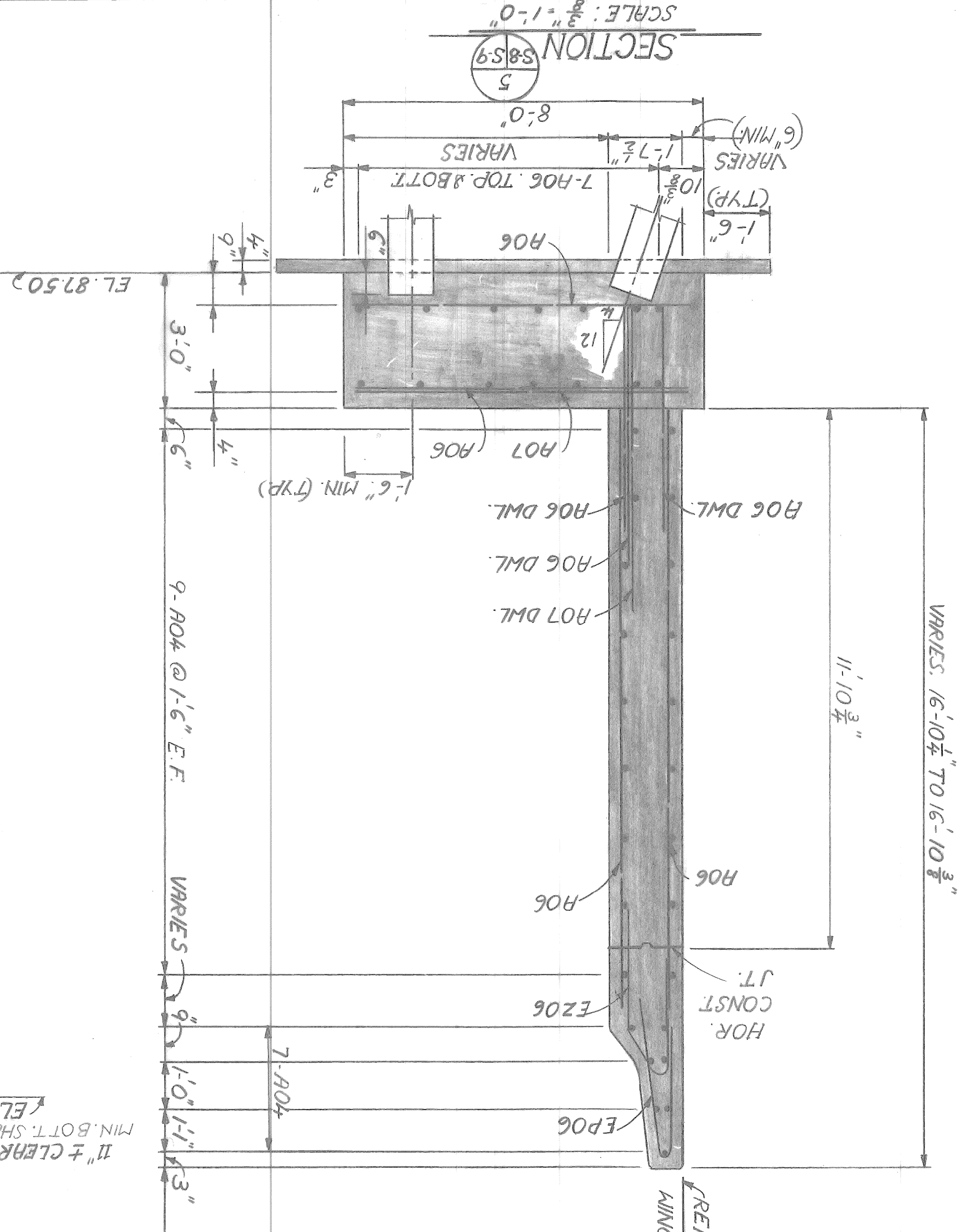
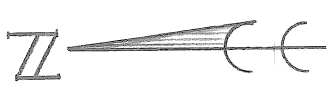
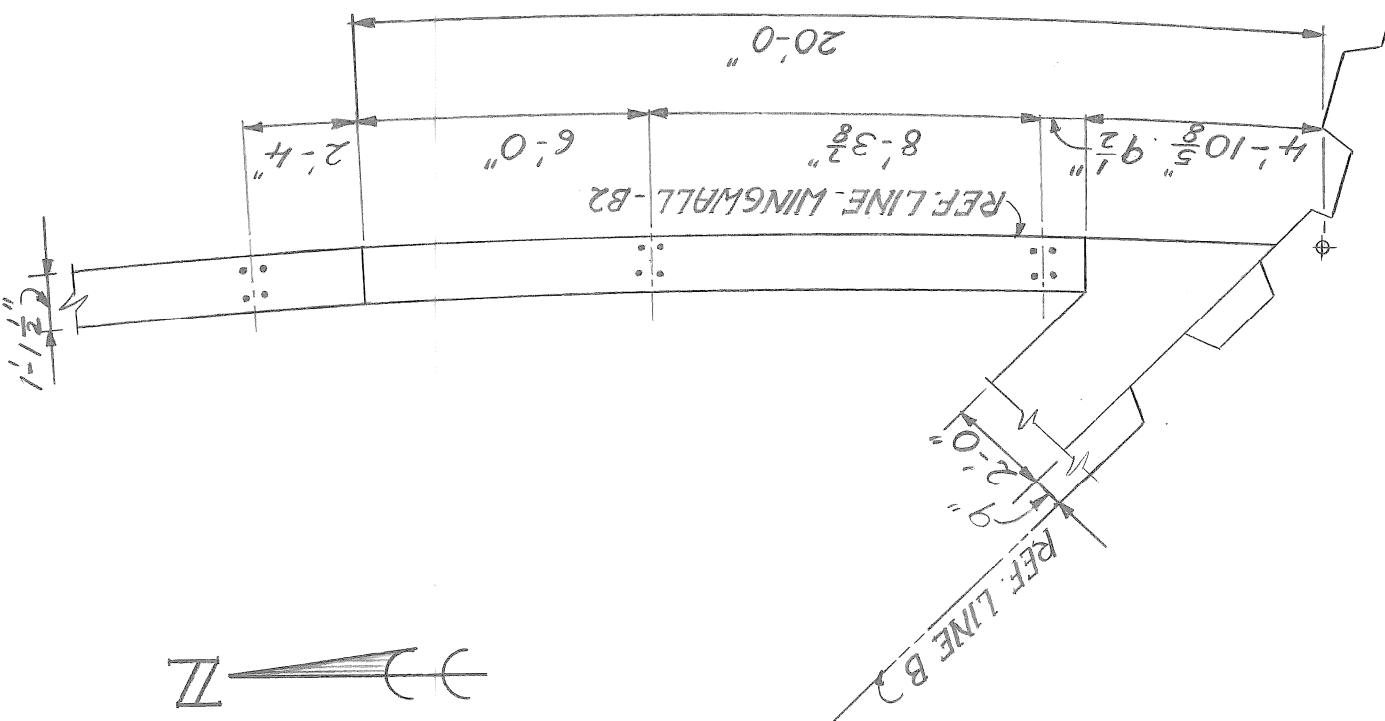
WINGWALL B-2 ELEVATION

SCALE: 3/4"=1'-0"



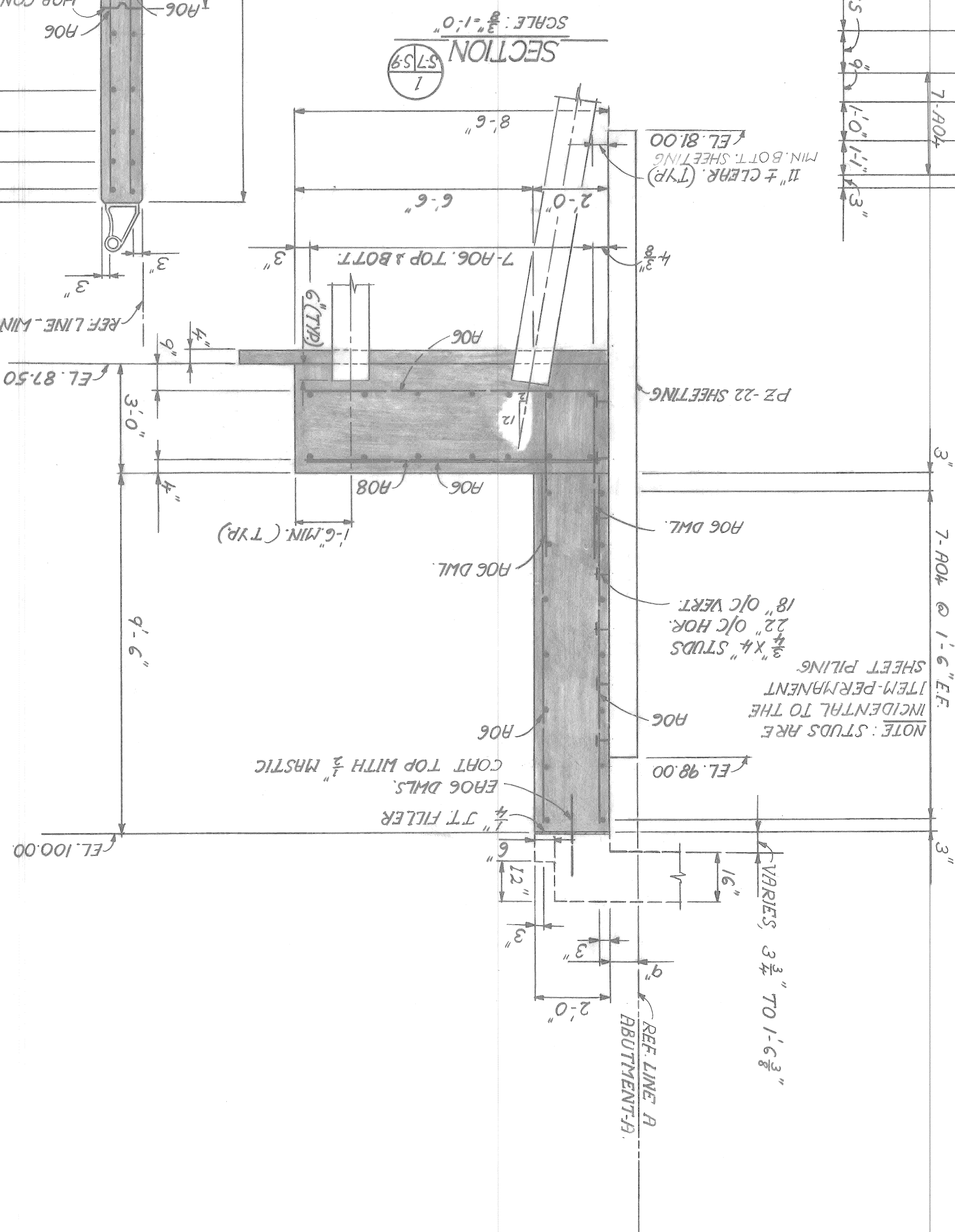
PLAN OF TOP

SCALE: 3/4"=1'-0"



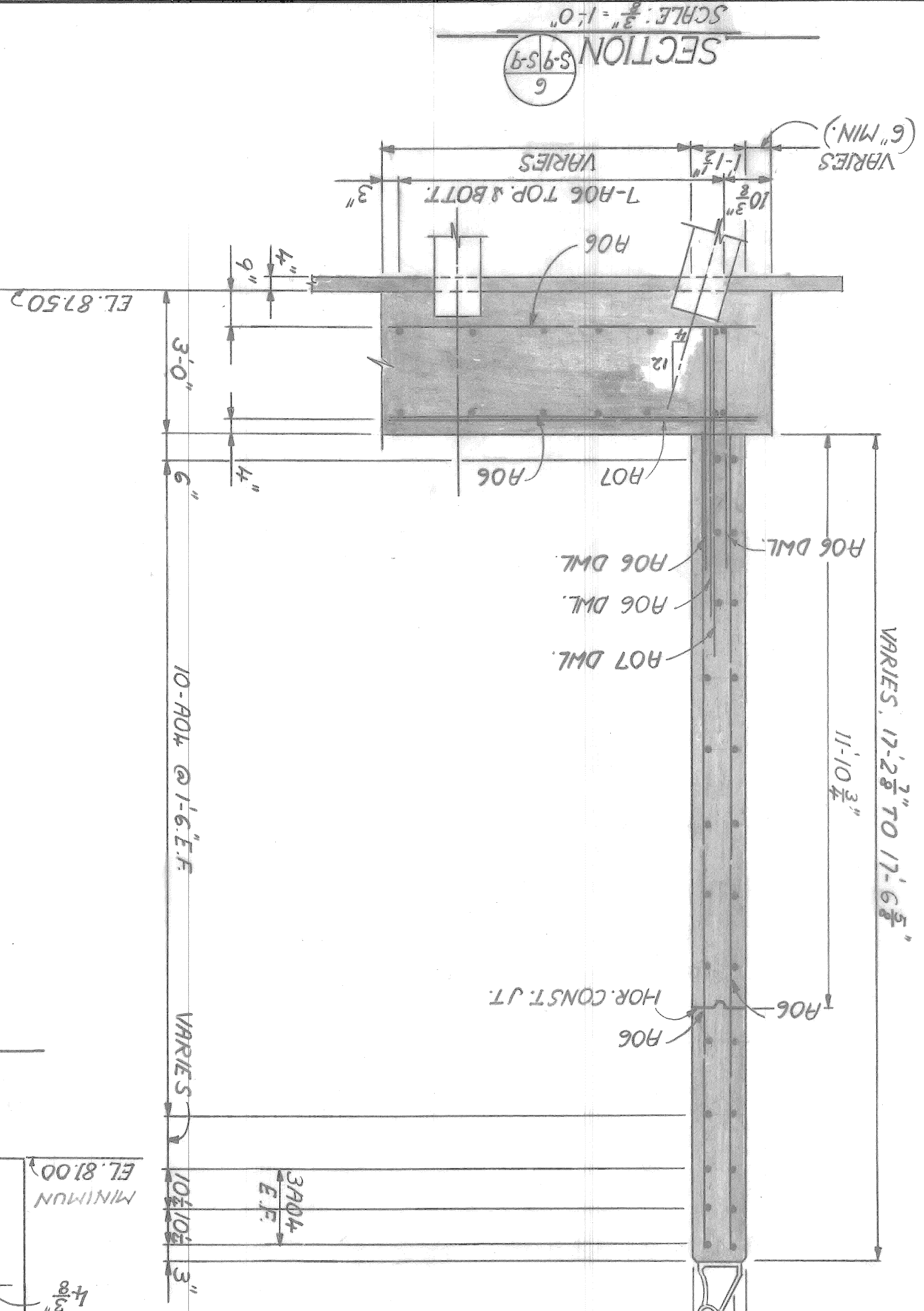
SECTION 5

SCALE: 3/4"=1'-0"



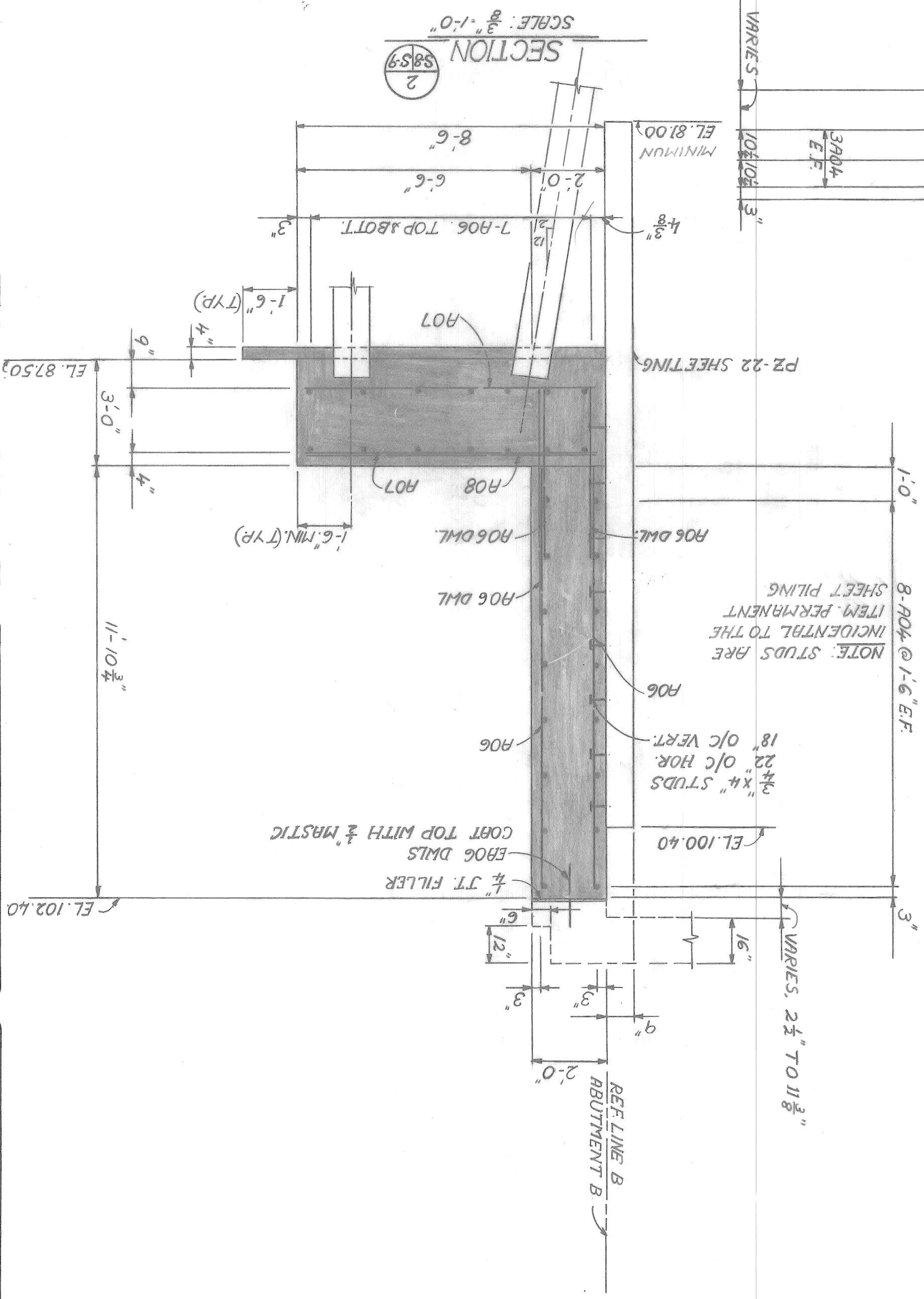
SECTION 7

SCALE: 3/4"=1'-0"



SECTION 6

SCALE: 3/4"=1'-0"



SECTION 2

SCALE: 3/4"=1'-0"

date NOV. 89

drawing no. S-9

sheet of

contract no. a.o.

WINGWALL B-2

AND

WINGWALL SECTIONS

RIVERSIDE AVENUE OVER FOX CREEK BW - 246

BRIDGE RECONSTRUCTION

CITY OF DETROIT

designated

drawn

checked

approved:

| no | revisions |
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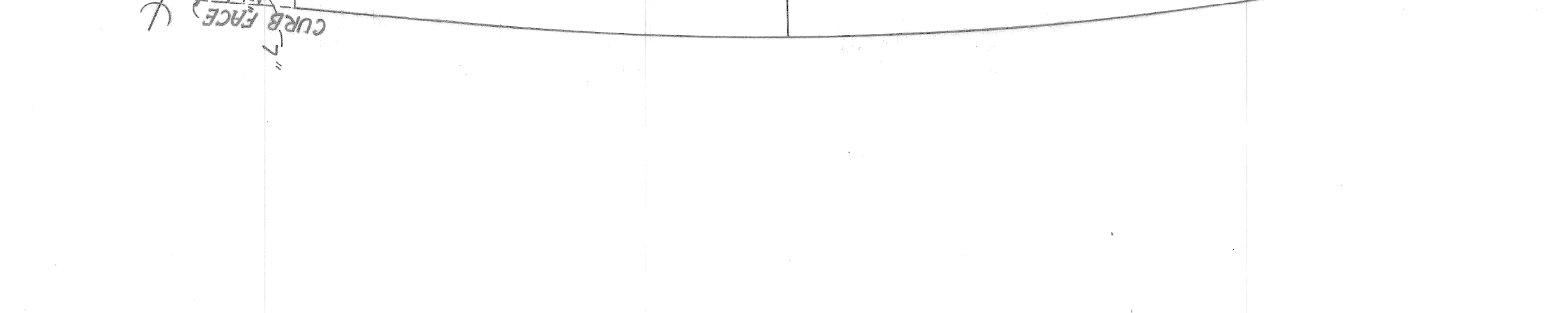
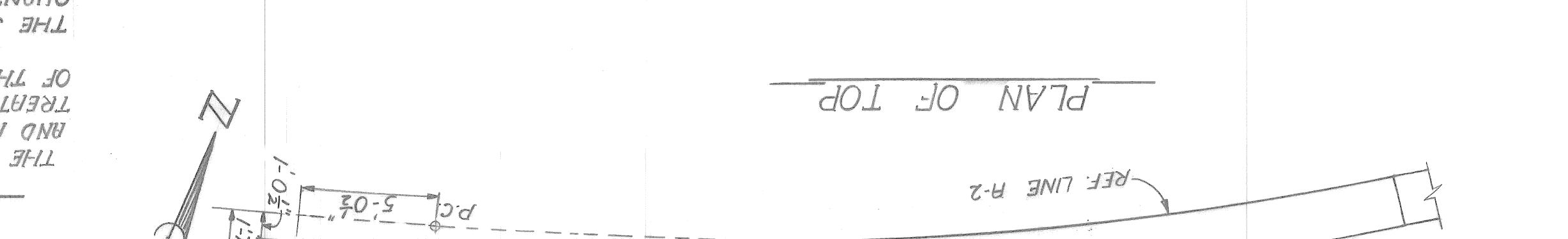
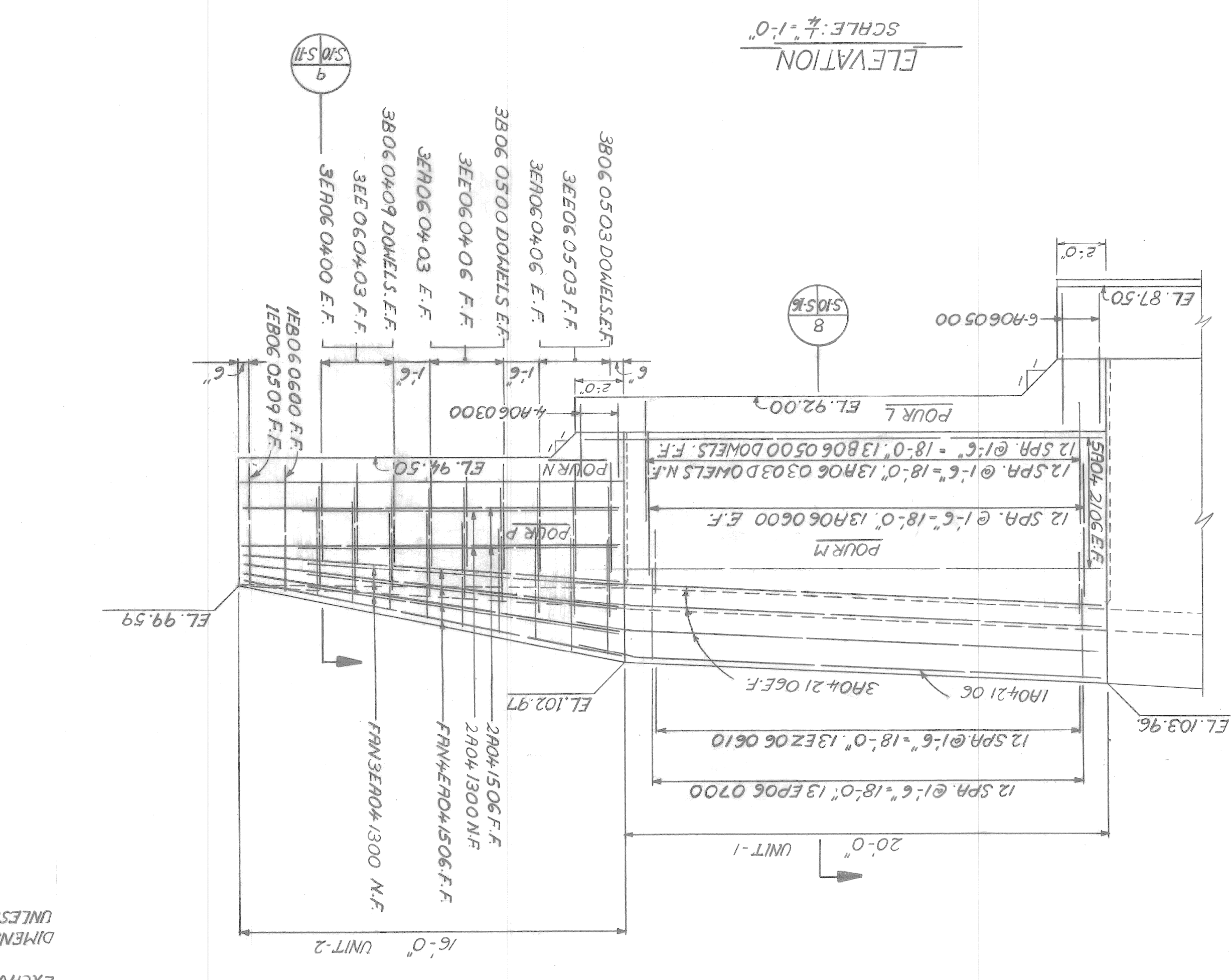
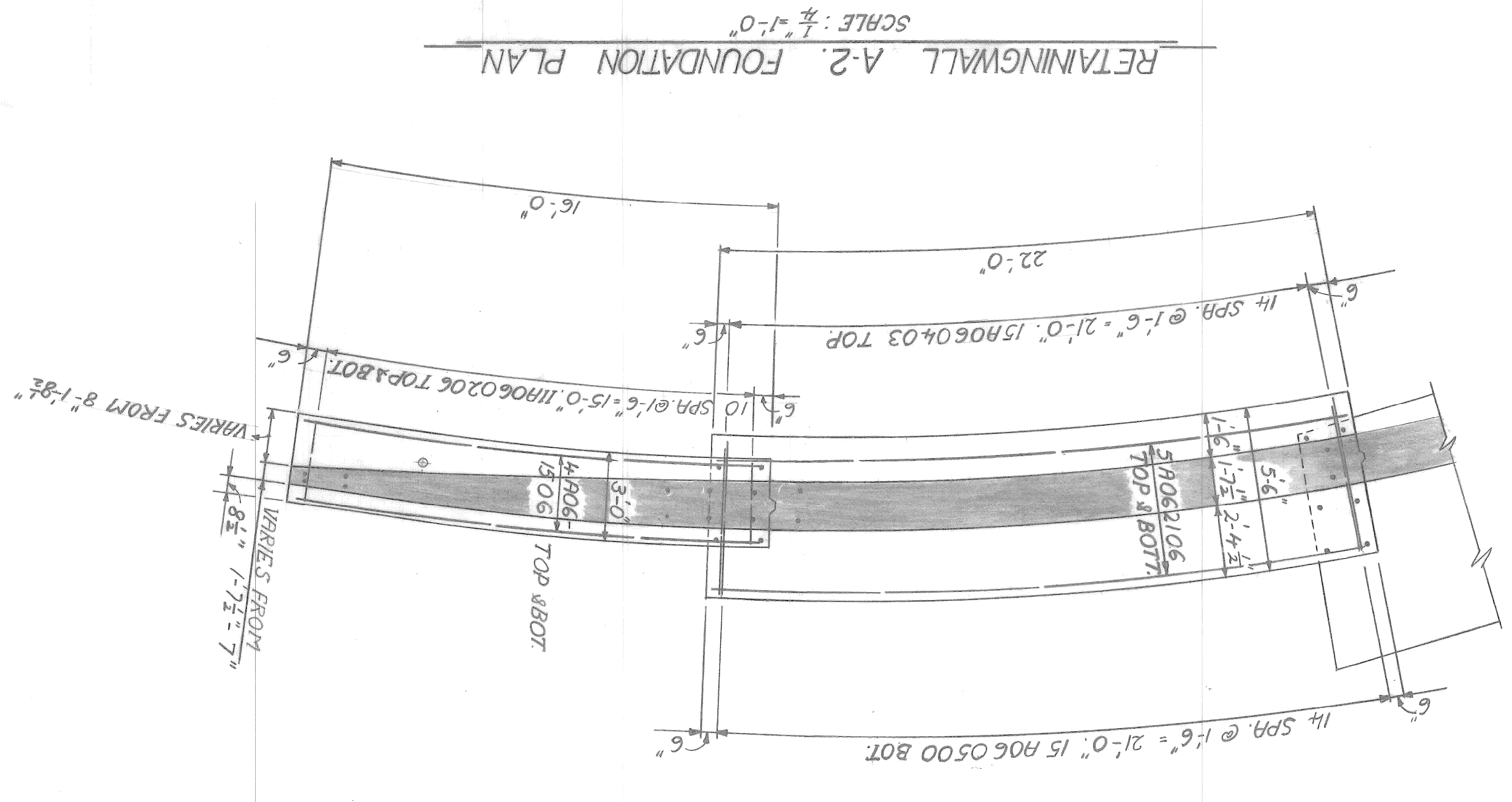
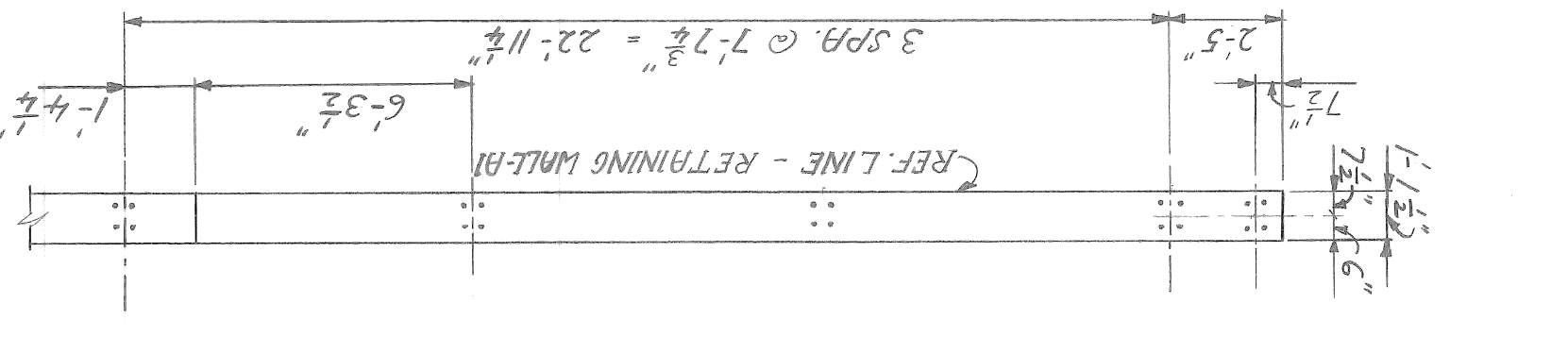
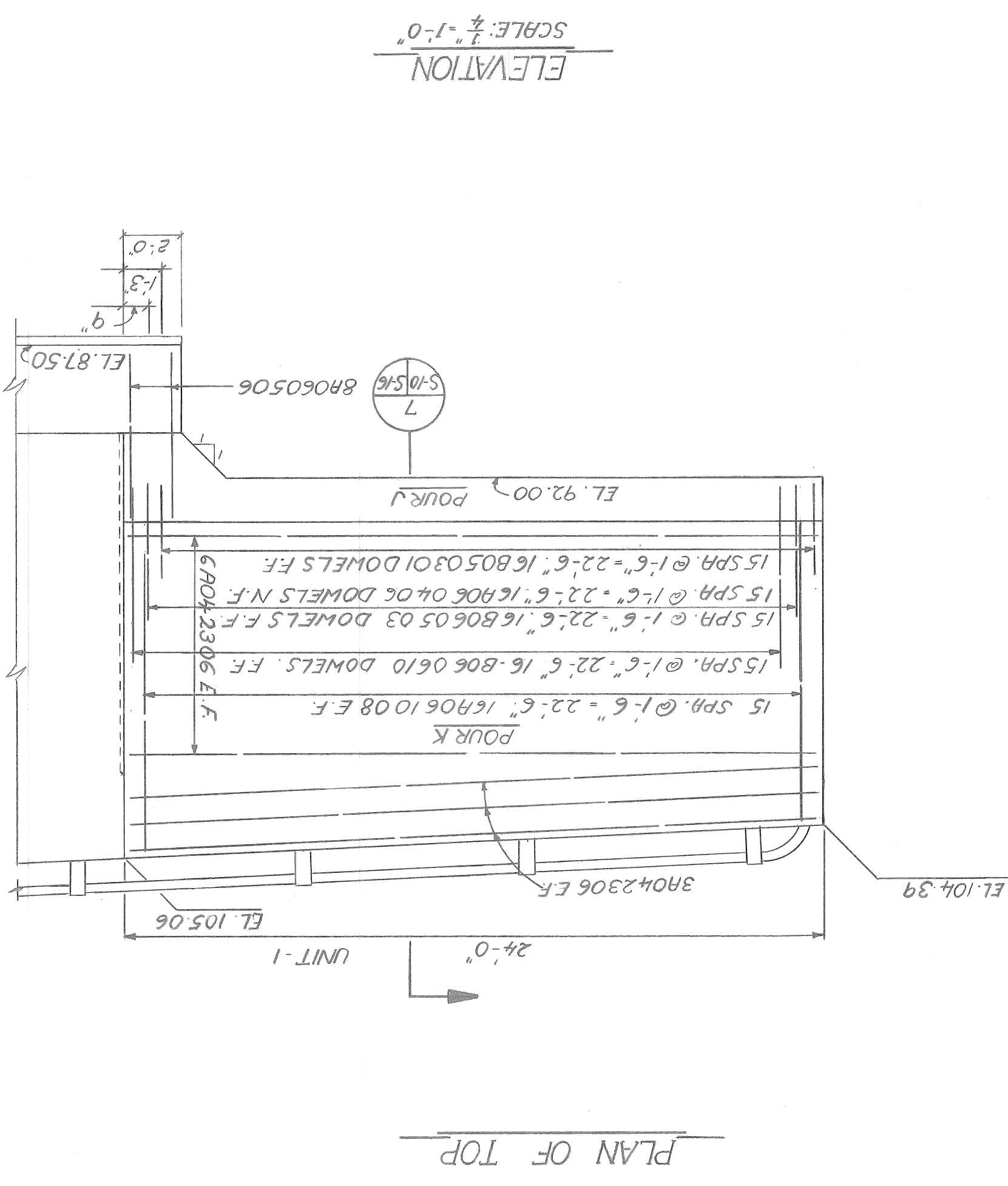
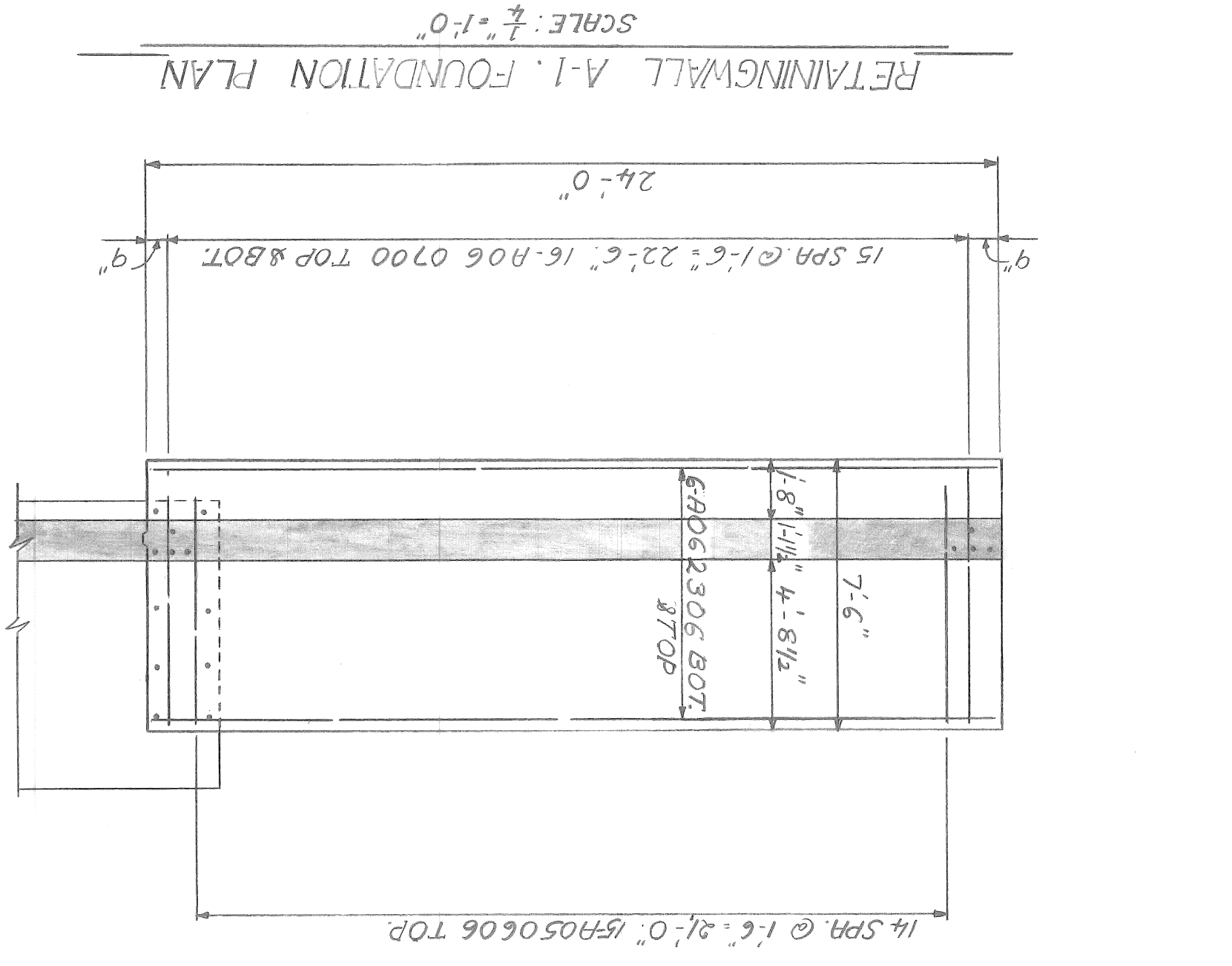
designed

drawn

checked

approved:

date



GENERAL NOTES:
THE EXPOSED FACES OF THE RETAINING WALLS AND ABUTMENT SHALL HAVE SPECIAL ARCHITECTURAL TREATMENT IN ACCORDANCE WITH SECTION 5.03.06 (C) OF THE STANDARD SPECIFICATIONS.
THE SUBSTRUCTURE CONCRETE AND EXCAVATION QUANTITIES TAKE INTO CONSIDERATION THE ADDITIONAL CONCRETE AND EXCAVATION NECESSARY TO POUR AND EXCAVATE TO THE PERMANENT STEEL SHEET PILING UNLESS OTHERWISE NOTED.
DIMENSIONS GIVEN ARE ALONG THE WALL REFERENCE LINES

| | | | |
|---------------------------------|----------------------------|-------|------|
| date | NOV. 89 | | |
| drawing no. | S-10 | | |
| sheet | of | | |
| contract no. | a.o. | | |
| NOTES | GENERAL | | |
| REINFORCING WALLS | A-1 & A-2 | | |
| RIVERSIDE AVENUE OVER FOX CREEK | BW - 246 | | |
| BRIDGE RECONSTRUCTION | | | |
| for | DEPARTMENT OF PUBLIC WORKS | | |
| city engineering department | DETROIT | | |
| approved: | | | |
| checked: | | | |
| drawn: | | | |
| designed: | | | |
| revisions | | | |
| dr'n | cr'd | ap'vd | date |

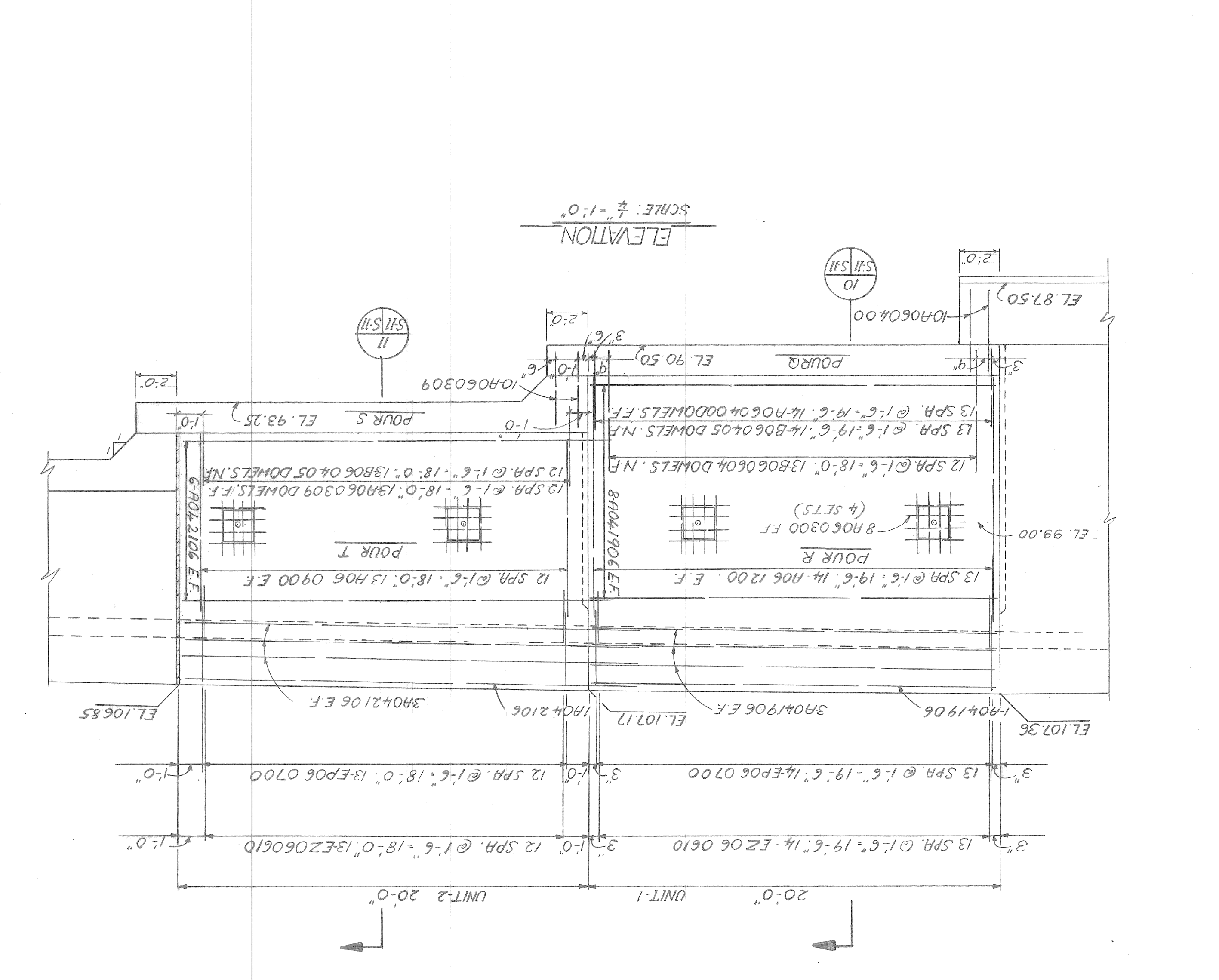
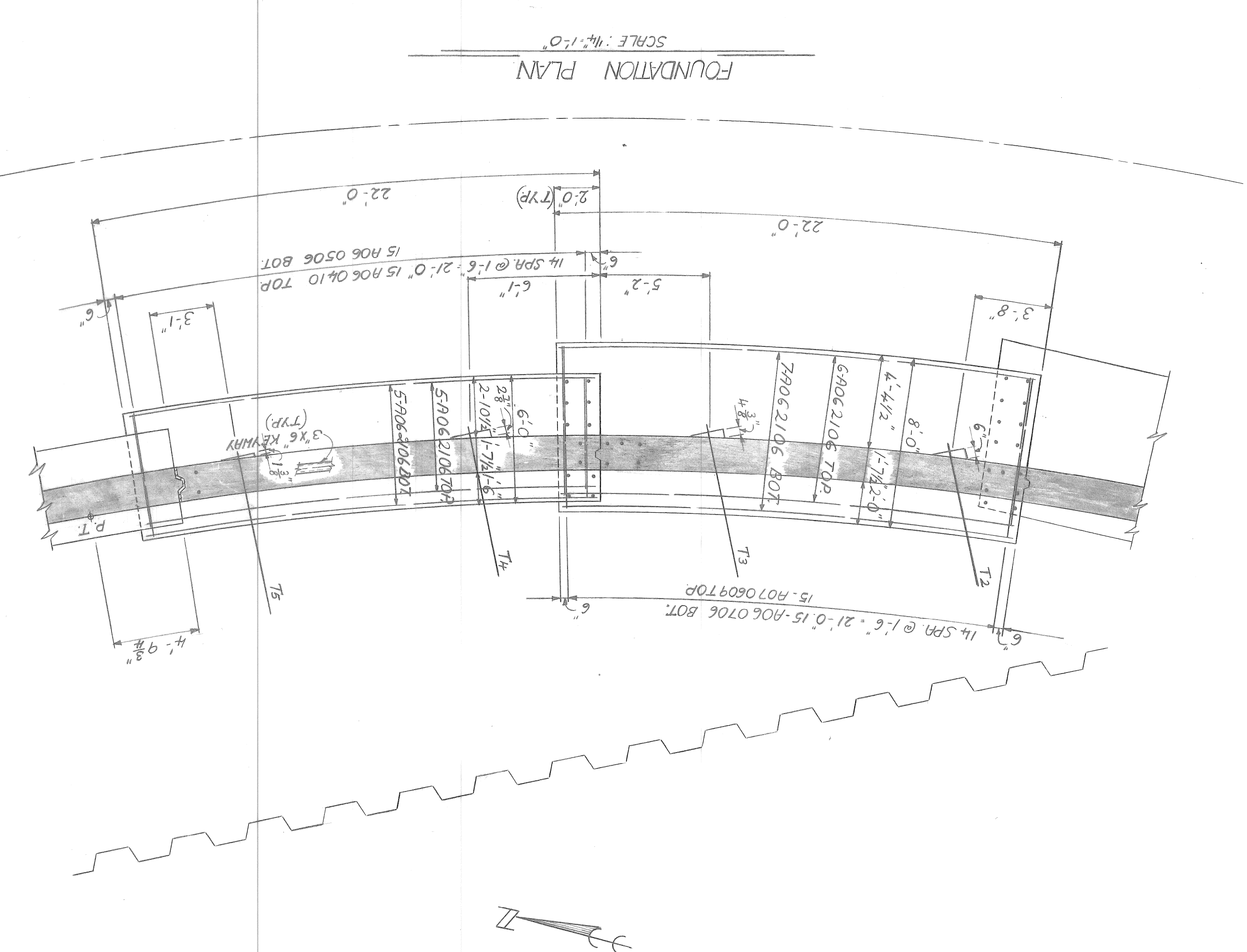
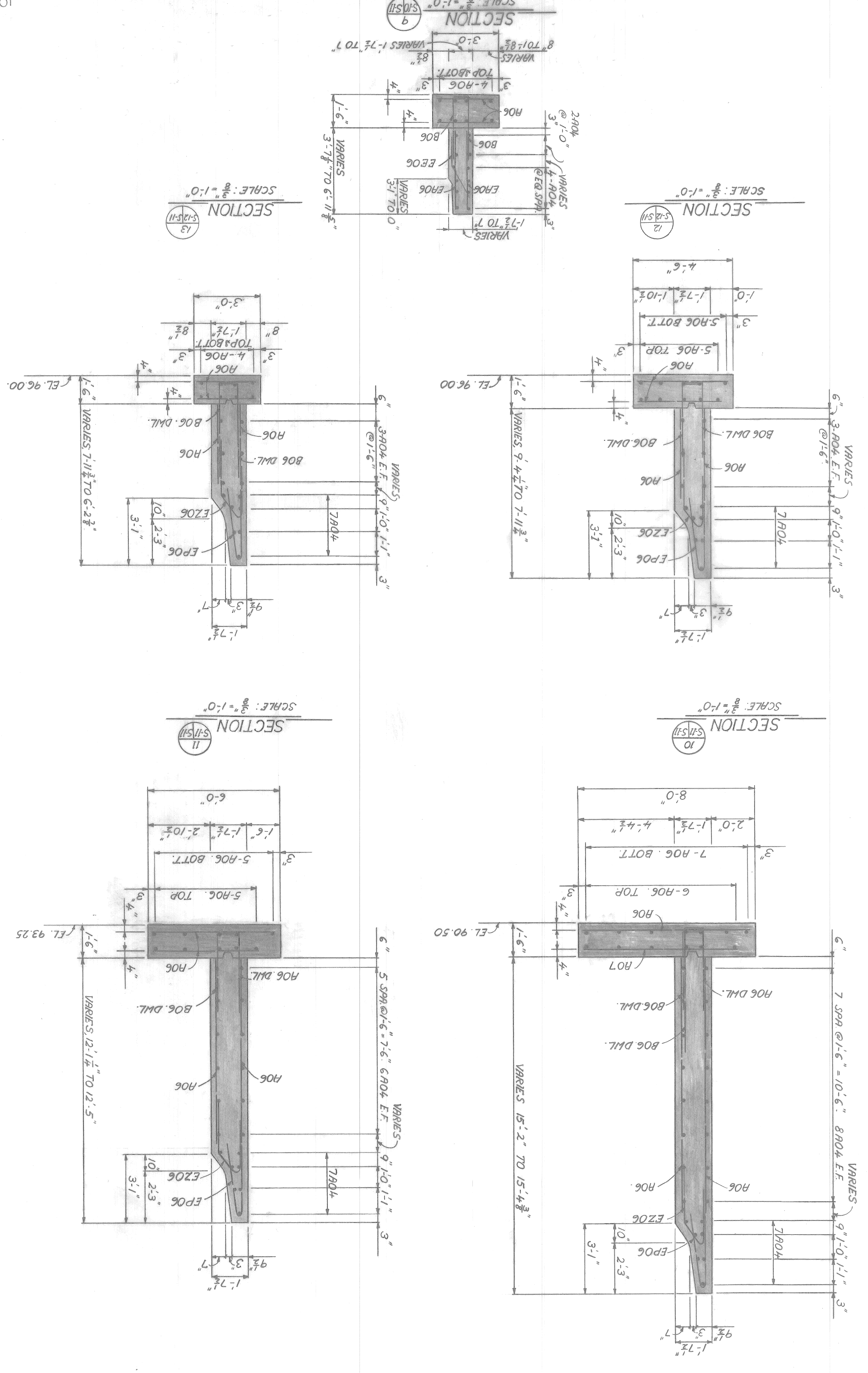
JOE NO. 3028 BA

a.o. contract no. sheet of drawing no. date NOV.89

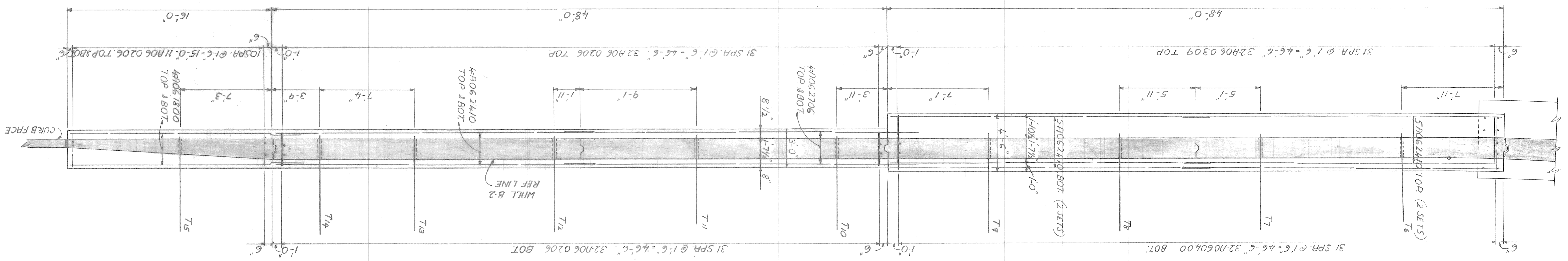
CITY OF DETROIT
 city engineering department
 for DEPARTMENT OF PUBLIC WORKS
 BRIDGE RECONSTRUCTION
 OVER RIVERSIDE AVENUE
 FOX CREEK
 BM-246

designed by _____
 drawn by _____
 checked by _____
 approved by _____

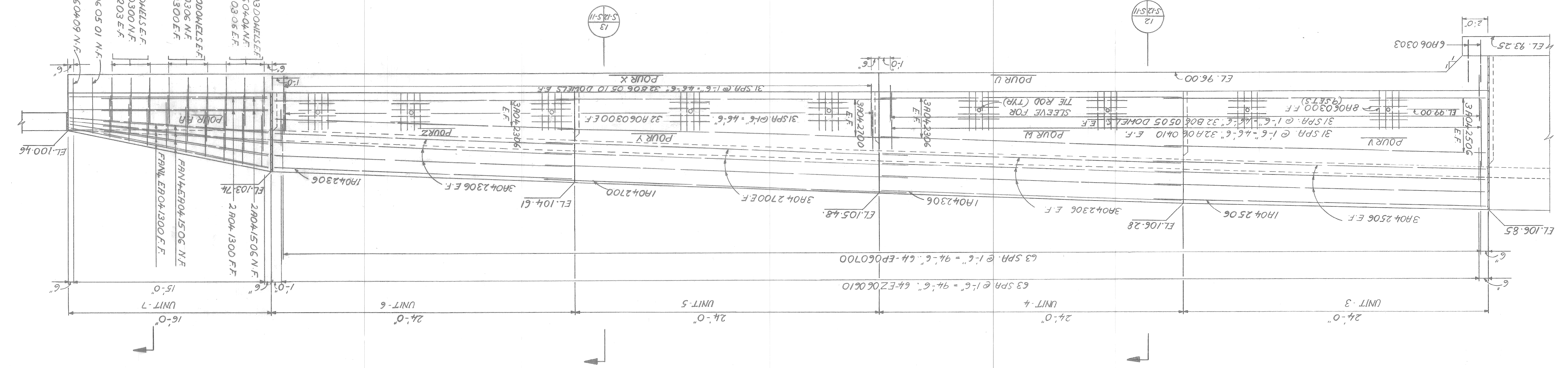
| Revisions | date | by | description |
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FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



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



a.o. contract no. _____
 sheet of _____
 drawing no. 5-12
 date NOV. 89

RETAINING
 MHL B-1
 UNITS 3-7

RIVERSIDE
 AVENUE
 OVER
 FOX CREEK
 BM-246

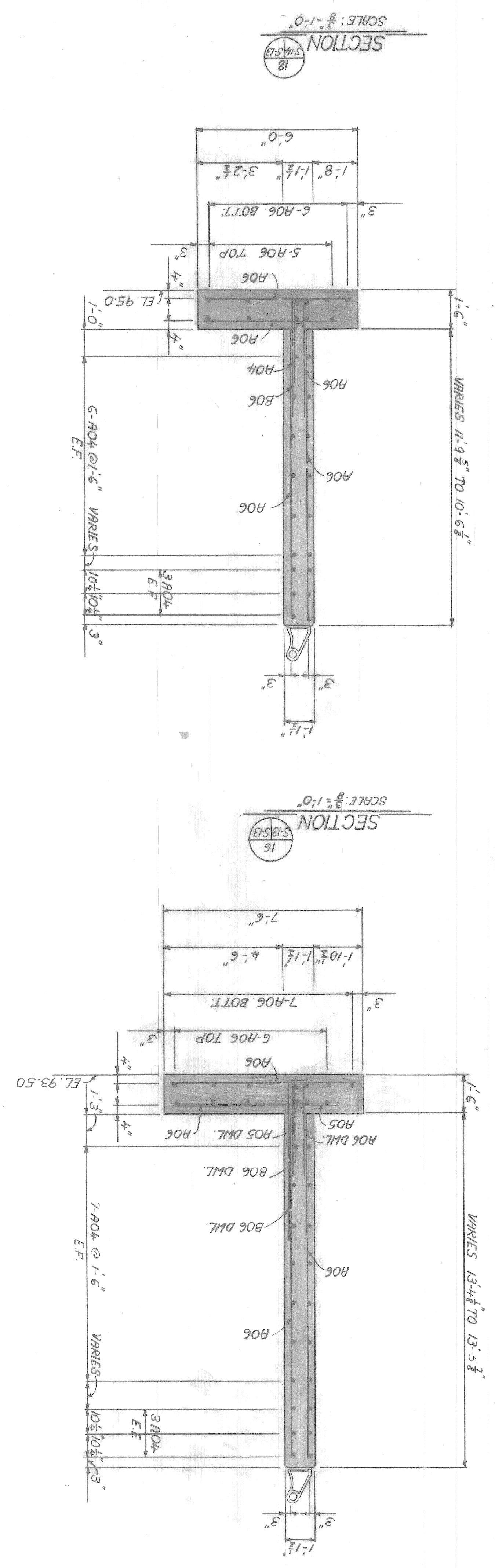
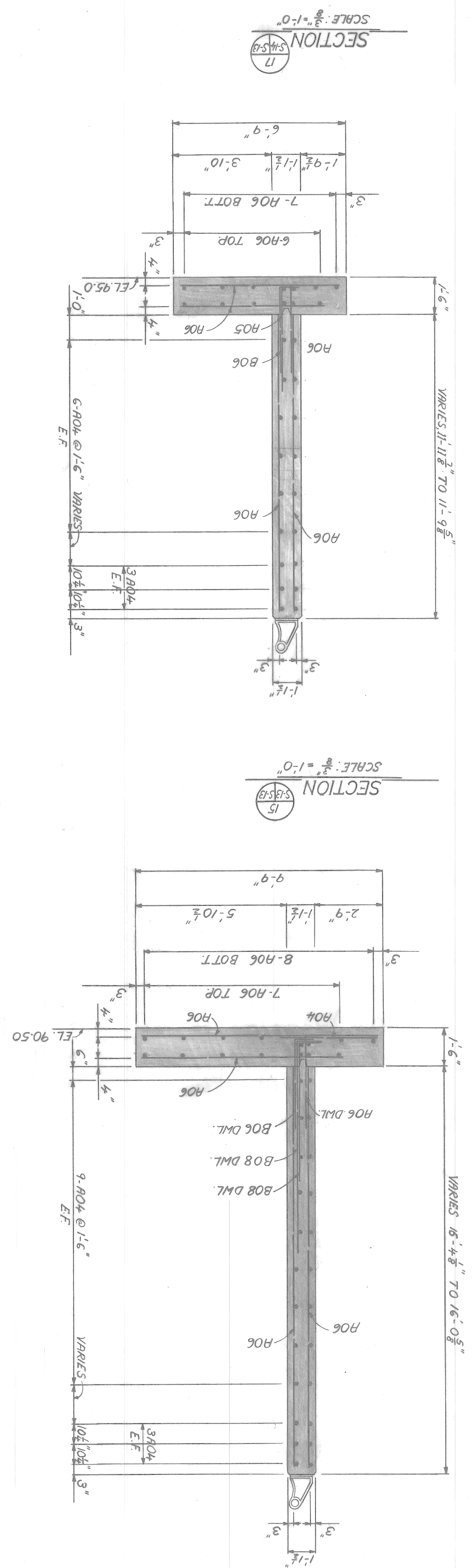
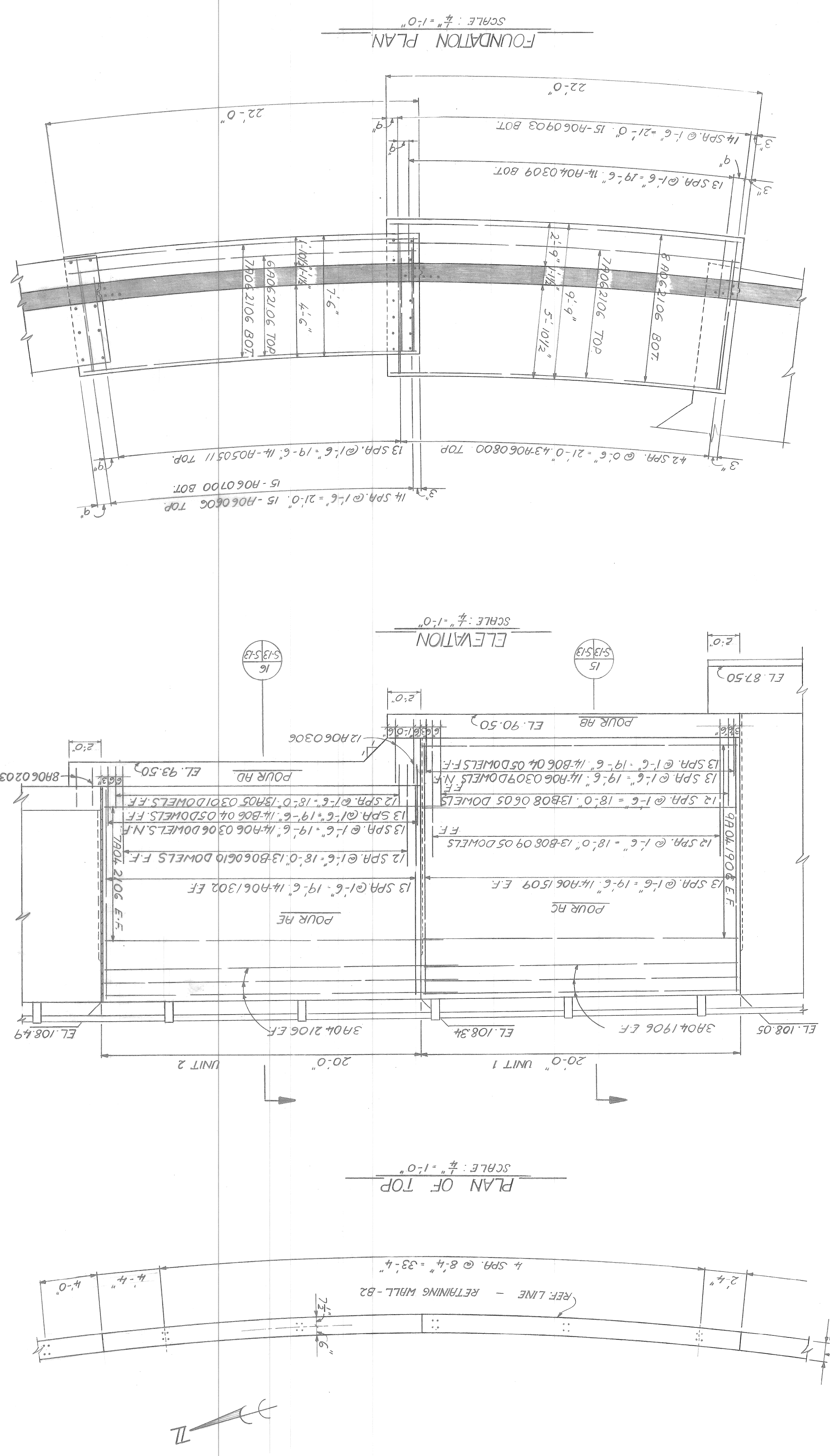
BRIDGE
 RECONSTRUCTION

for
 DEPARTMENT
 OF
 PUBLIC WORKS

City of
 DETROIT
 engineering
 department

designed by _____
 drawn by T.K.
 checked by _____
 approved by _____

| revisions | date | app'vd | cr'd | dr'n |
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JOB NO. 30288A

date NOV. 9 5-13

drawing no. _____

sheet _____ of _____

contract no. _____

a.o. _____

RETRAINING WALL - B2 UNITS 1-2

RIVERSIDE AVENUE OVER FOX CREEK

BM - 246

BRIDGE RECONSTRUCTION

CITY OF DETROIT

City engineering department

for DEPARTMENT OF PUBLIC WORKS

designer: _____

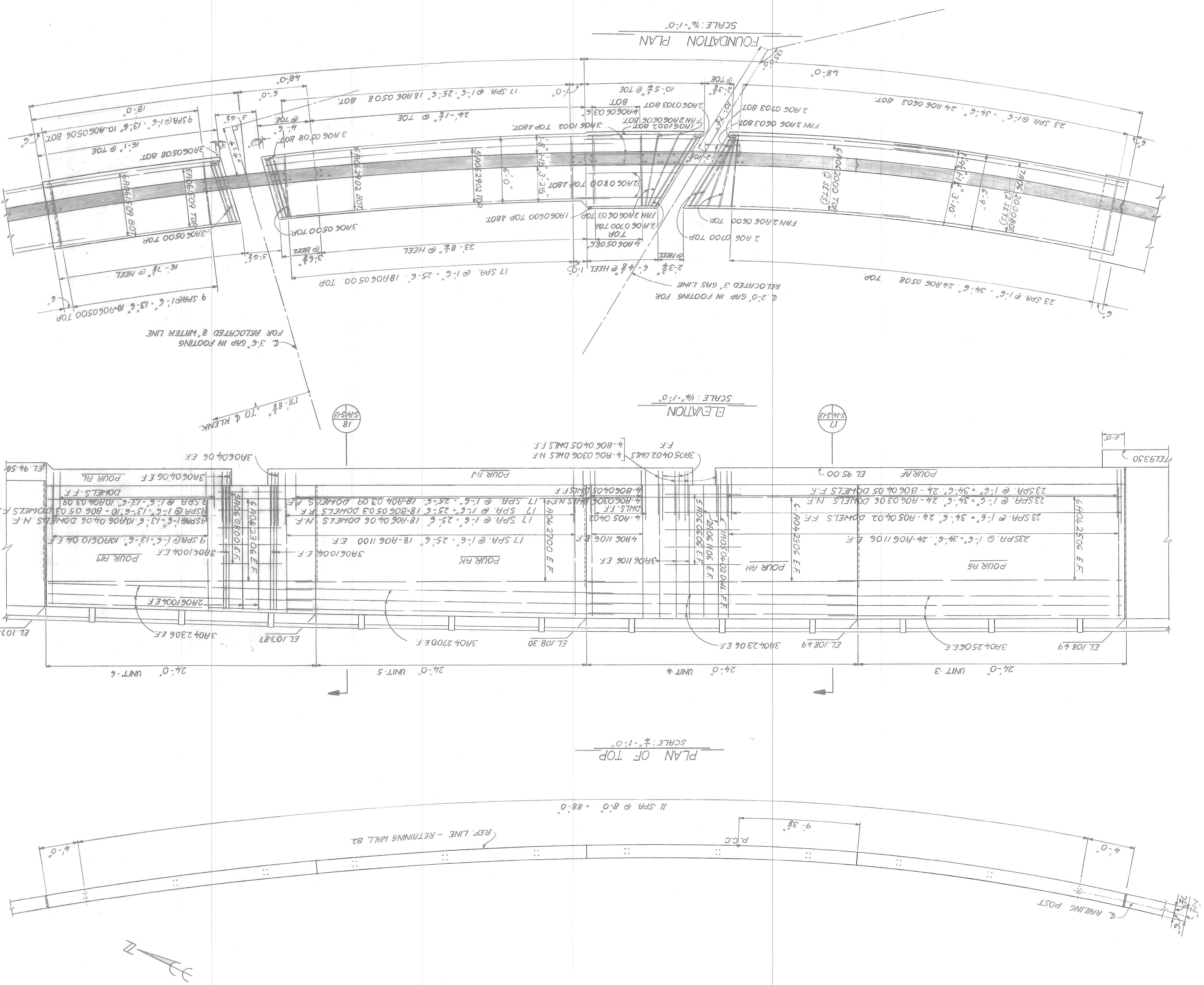
drawn by: T.K.

checked by: _____

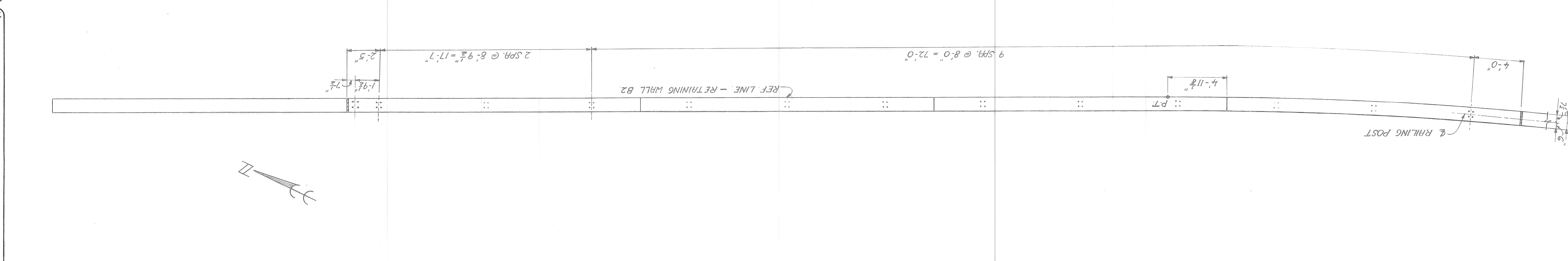
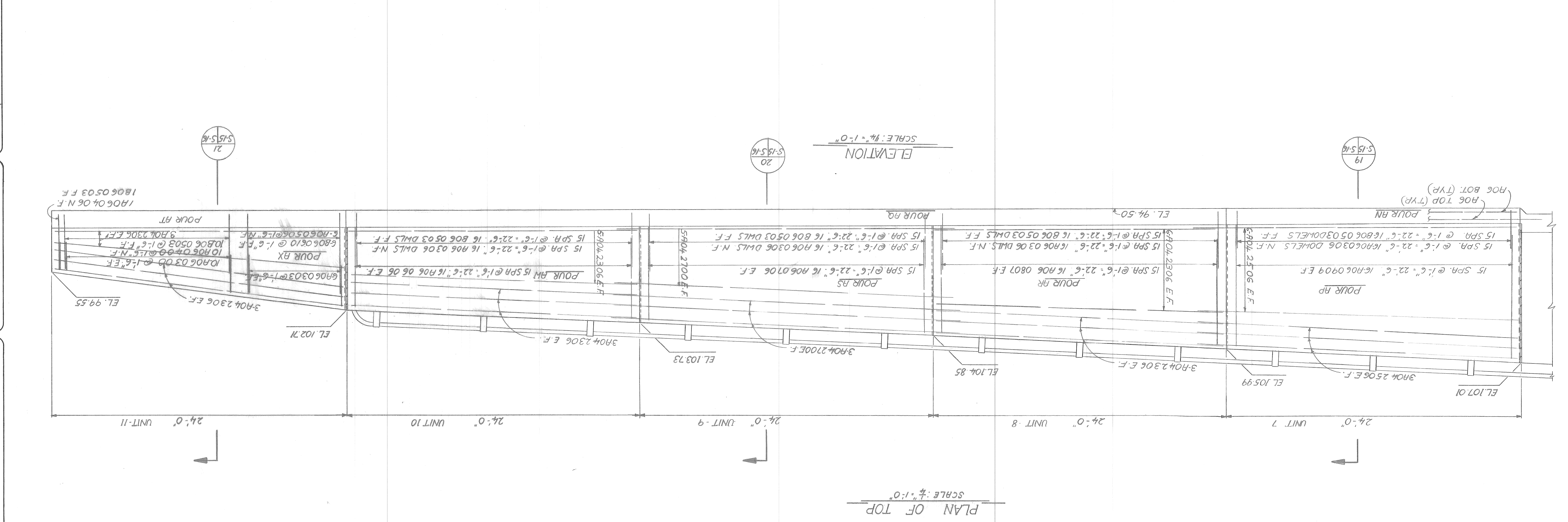
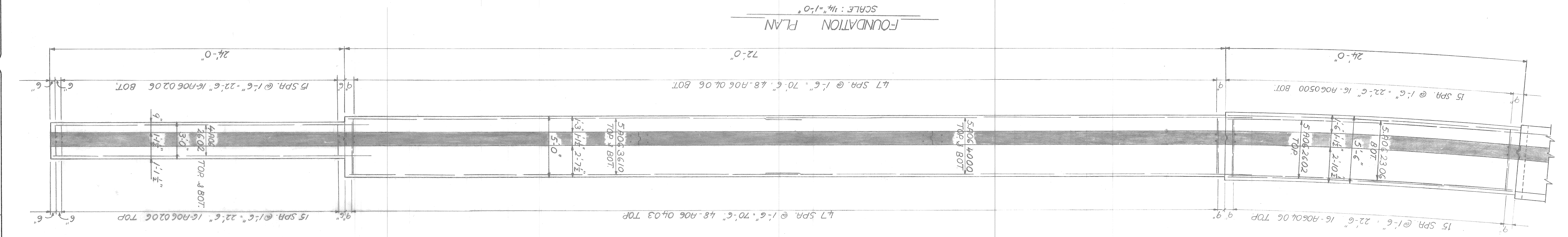
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| JOB NO. 3 0288A | |
| date NOV. 89 | S-14 |
| drawing no. | |
| of | |
| sheet | |
| contract no. | |
| a.o. | |
| RETAINING WALL B-2 | |
| UNITS 3-6 | |
| RIVERSIDE AVENUE OVER FOX CREEK BW-246 | |
| BRIDGE RECONSTRUCTION | |
| for | DEPARTMENT OF PUBLIC WORKS |
| city engineering department | Detroit |
| designed by | |
| drawn by | JK |
| checked by | |
| approved by | |
| revisions | |
| dr'n | ck'd |
| ap'd | vd |
| date | |



a.o. contract no. sheet of drawing no. S-15 date NOV. 89

RETRAINING WALL B-2, UNITS 7-11

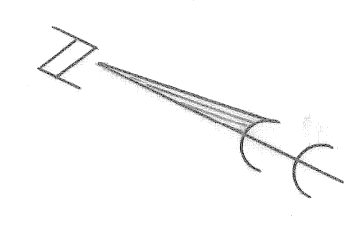
RIVERSIDE AVENUE OVER FOX CREEK BW-246

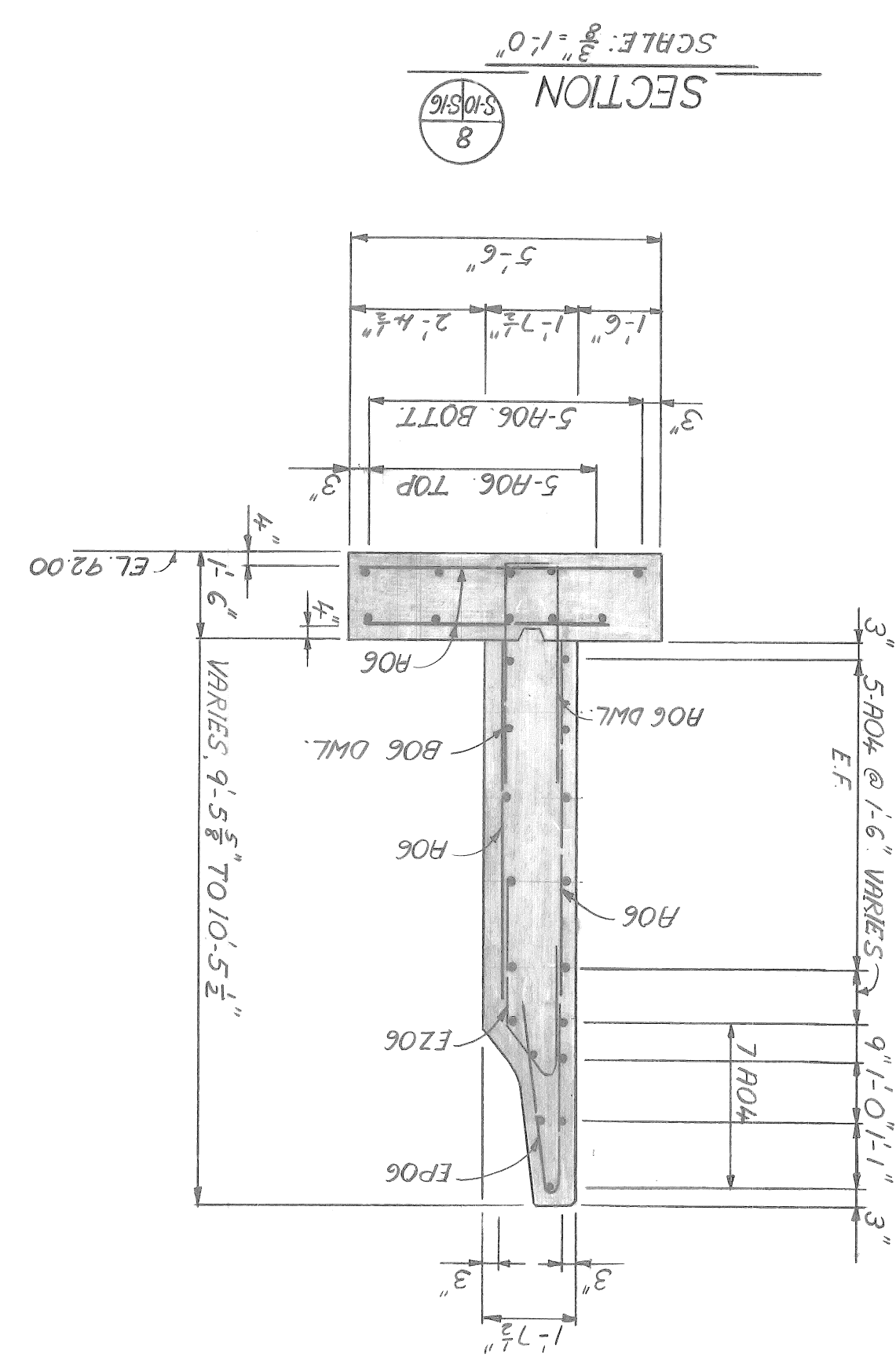
BRIDGE RECONSTRUCTION DEPARTMENT OF PUBLIC WORKS

CITY OF DETROIT engineering department

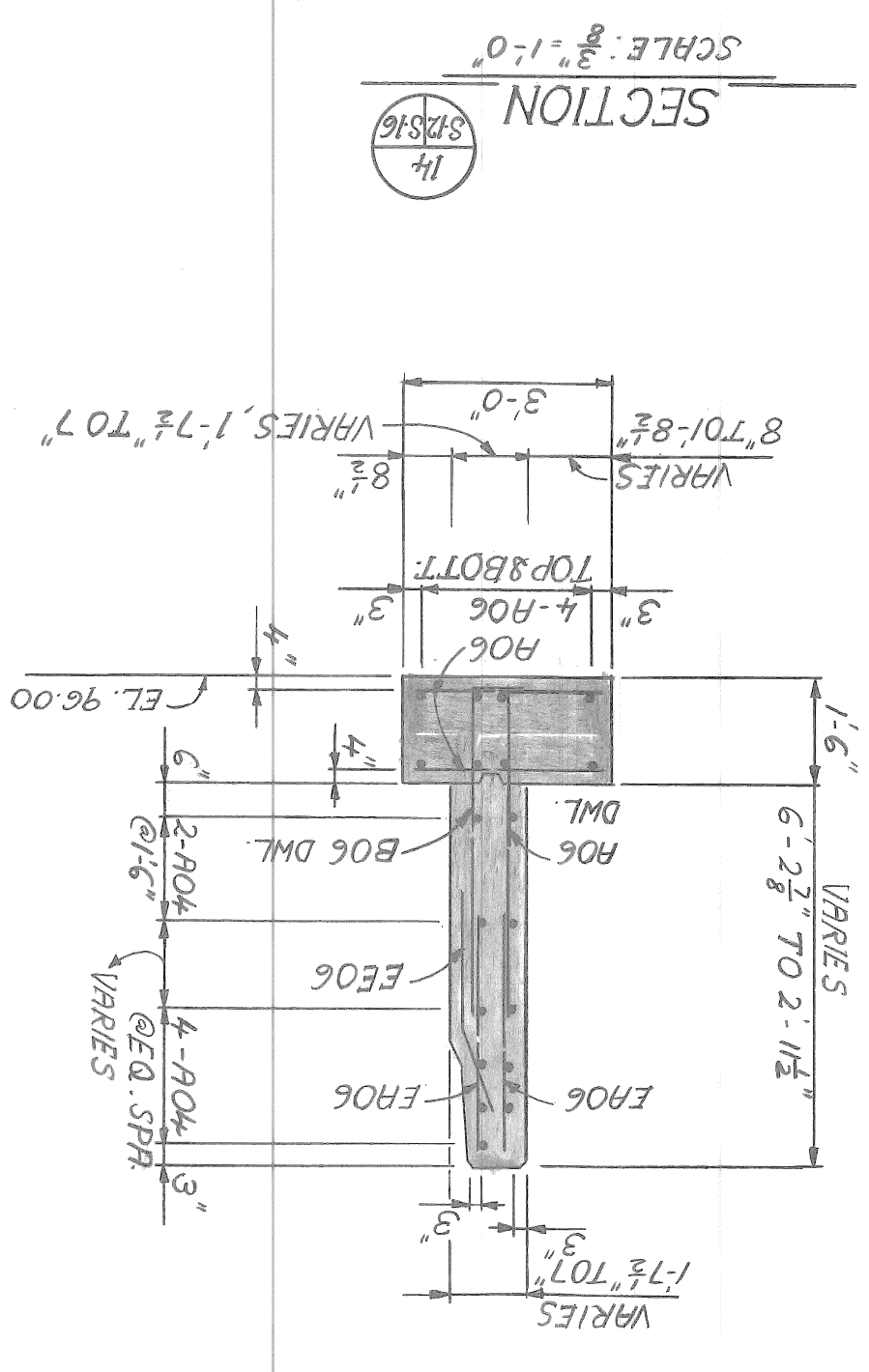
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revisions

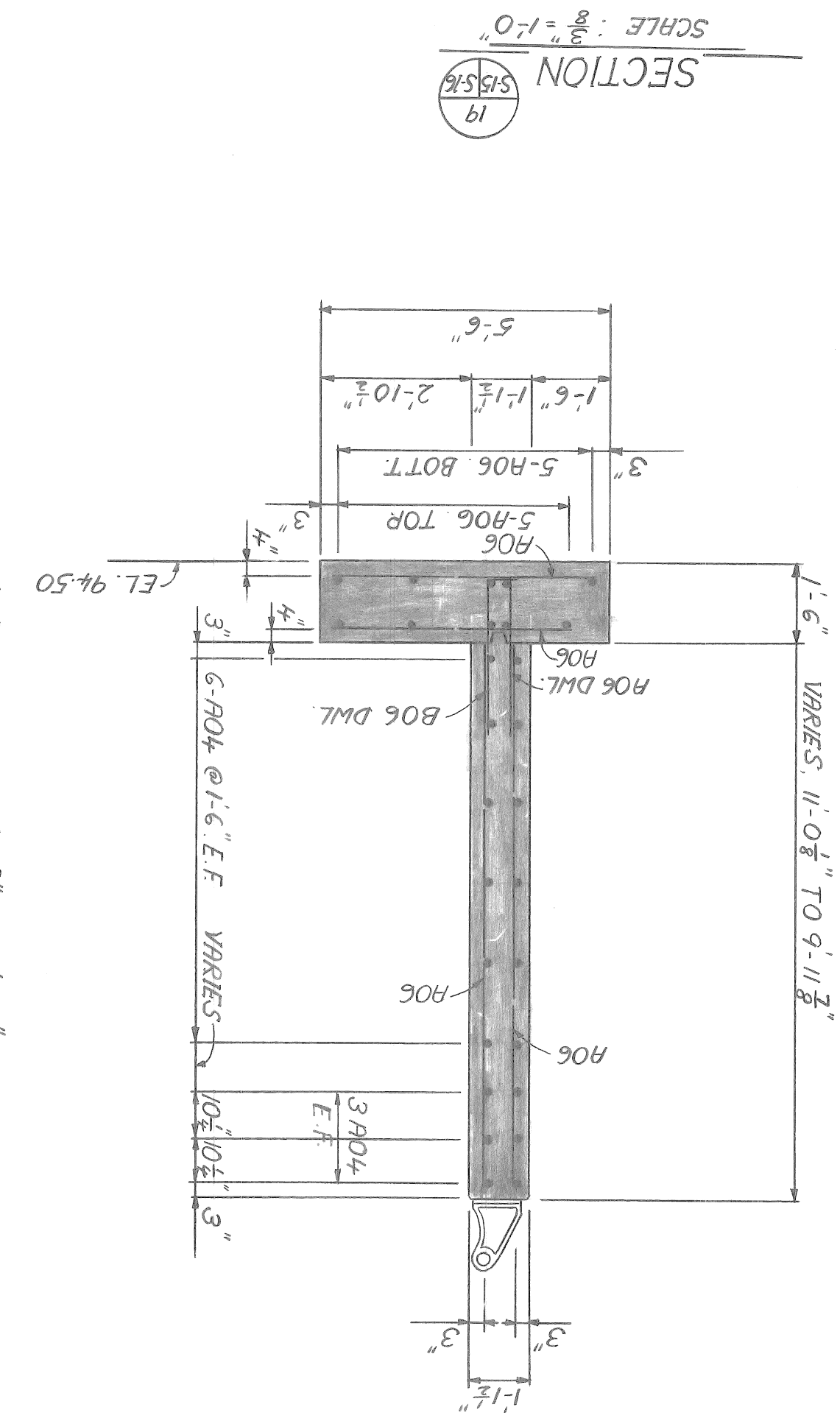




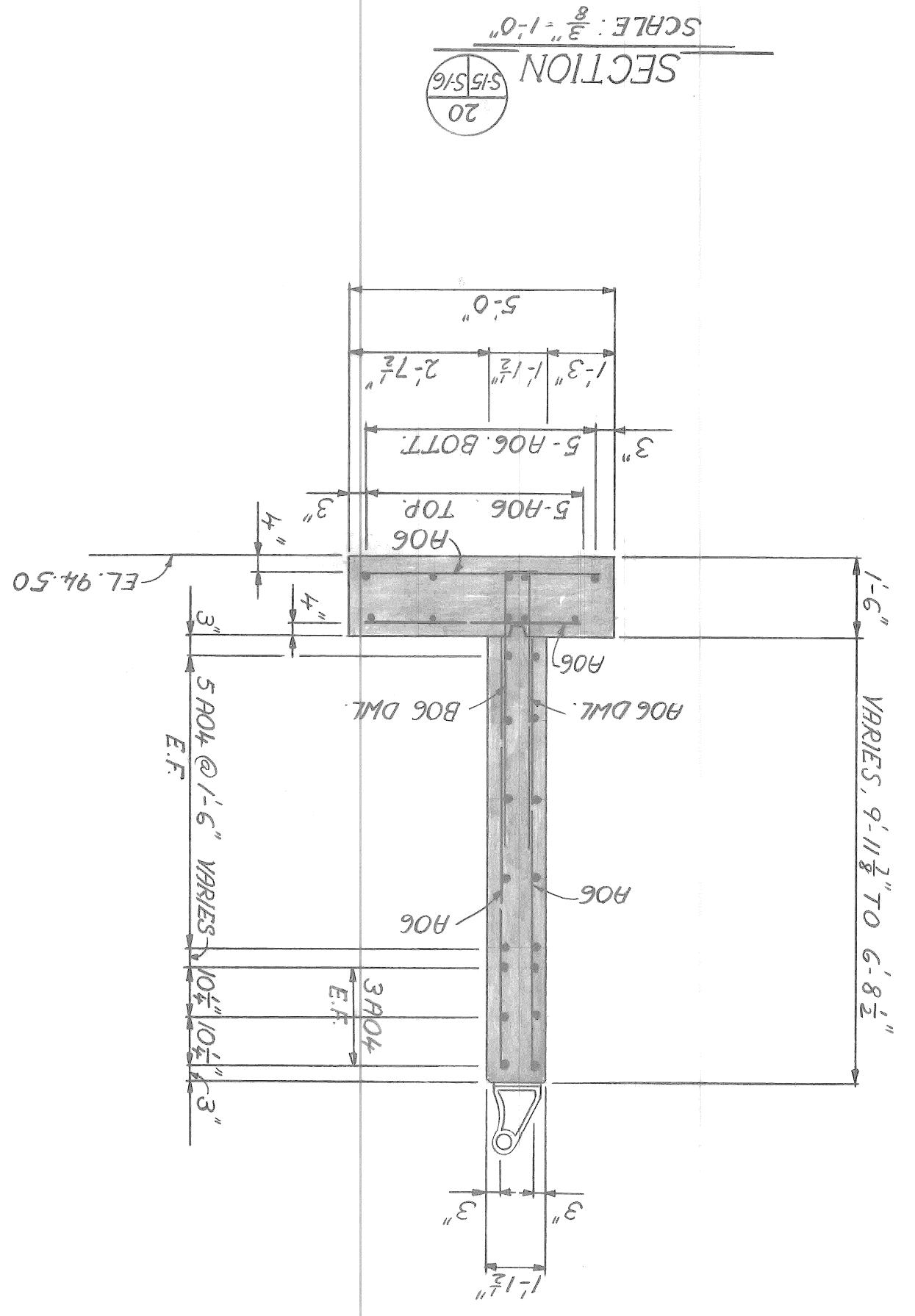
SECTION 8
SCALE: 3/8" = 1'-0"



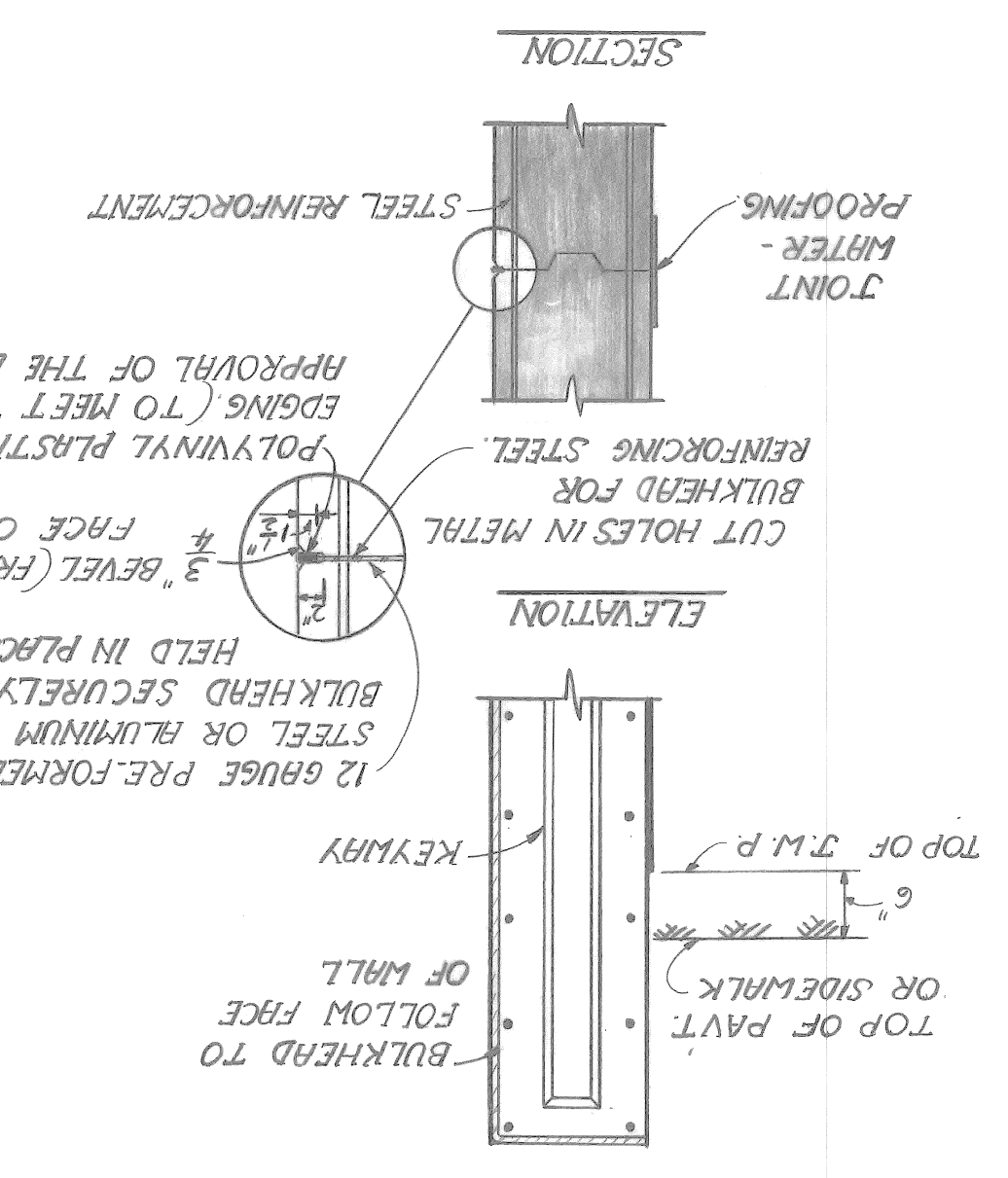
SECTION 16
SCALE: 3/8" = 1'-0"



SECTION 19
SCALE: 3/8" = 1'-0"

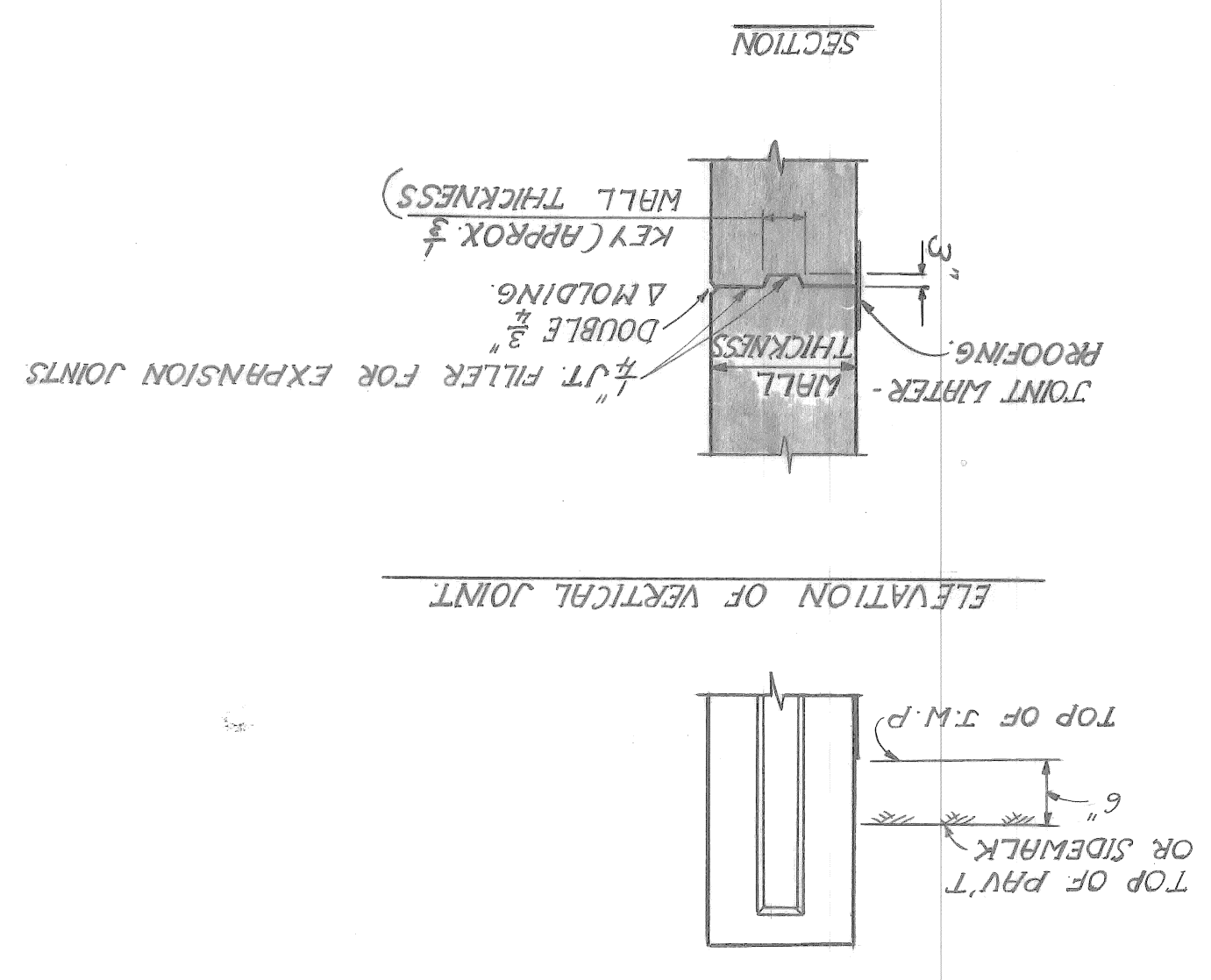


SECTION 20
SCALE: 3/8" = 1'-0"



SECTION 21
SCALE: 3/8" = 1'-0"

NOTES: METAL BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT AT CONTRACTOR'S EXPENSE.
CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.



SECTION 7
SCALE: 3/8" = 1'-0"

NOTES: WHERE OPTIONAL CONSTRUCTION JOINTS ARE USED, THERE WILL BE NO PAYMENT FOR THE REQUIRED JOINT WATERPROOFING.

EXPANSION & CONSTRUCTION JOINT DETAILS

a.o. contract no. sheet of drawing no. S-16 date NOV. 89

MILL SECTIONS AND DETAILS

RIVERSIDE AVENUE OVER FOX CREEK

BRIDGE RECONSTRUCTION

DEPARTMENT OF PUBLIC WORKS

city engineering department

CITY OF DETROIT

designed by J.K. checked by J.K. approved by

| revisions | date | ap'd | ck'd |
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| date NOV. 8 9 | drawing no. S-17 | sheet of | contract no. | a.o. | SLAB - | REINFORCING BARS | BW - 246 | FOX CREEK | OVER | RIVERSIDE | BRIDGE | RECONSTRUCTION | PUBLIC WORKS | DEPARTMENT | for | city | DETROIT | OF | DESIGNED | BY | D.L.N. | CHECKED | BY | APPROVED | BY | DESIGNED | BY | DATE | APPROVED | BY | DATE |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SCALE 1/4" = 1'-0"
JOB NO. 30288 A

BOTTOM REINFORCEMENT PLAN

THE CONTRACTOR IS TO PROVIDE A SAWED JOINT 1/2" DEEP BY 1/8" WIDE MIN. IN THE TOP OF LATEX OVERLAY OVER AND PARALLEL TO THE CENTERLINE OF PIERS. THE JOINT IS TO BE SAWED BEFORE CASTING OF SIDEWALK AND BARRIER AND IS TO BE FILLED WITH HOT-POURED JOINT SEALANT (INCIDENTAL TO SUPERSTRUCTURE CONCRETE).

SIDEWALK AND BARRIER POURS SHALL NOT BE CAST UNTIL SLAB CONCRETE HAS ATTAINED AT LEAST 75% OF ITS DESIGN STRENGTH AS DETERMINED BY TABLE 7.01-4 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

THE "PENETRATING CONCRETE SEALER FOR CONCRETE SURFACE" SHALL BE APPLIED TO THE TOP OF SIDEWALK, SIDE OF THE CURB AND INSIDE FACE OF CONCRETE BARRIER SURFACES.

EDGE OR GROOVE DENOTES EDGING OR GROOVING WITH AN APPROVED TOOL.

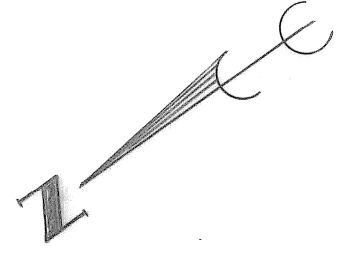
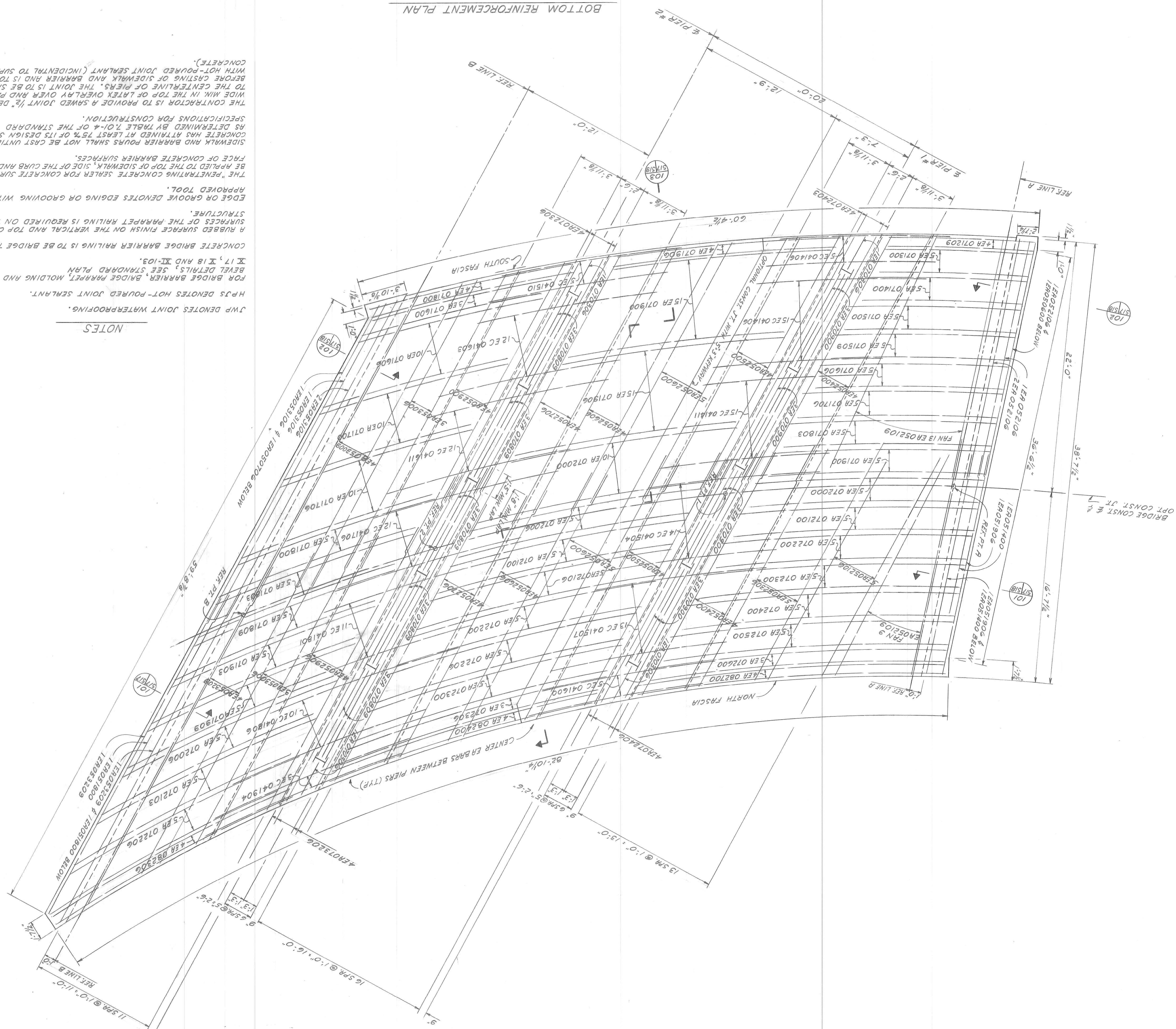
A RUBBED SURFACE FINISH ON THE VERTICAL AND TOP CONCRETE SURFACES OF THE PARAPET RAILING IS REQUIRED ON THIS STRUCTURE.

CONCRETE BRIDGE BARRIER RAILING IS TO BE BRIDGE TYPE 4.

FOR BRIDGE BARRIER, BRIDGE PARAPET, MOLDING AND BEVEL DETAILS, SEE STANDARD PLAN X 17, X 18 AND X 103.

H.P.S. DENOTES HOT-POURED JOINT SEALANT.

NOTES



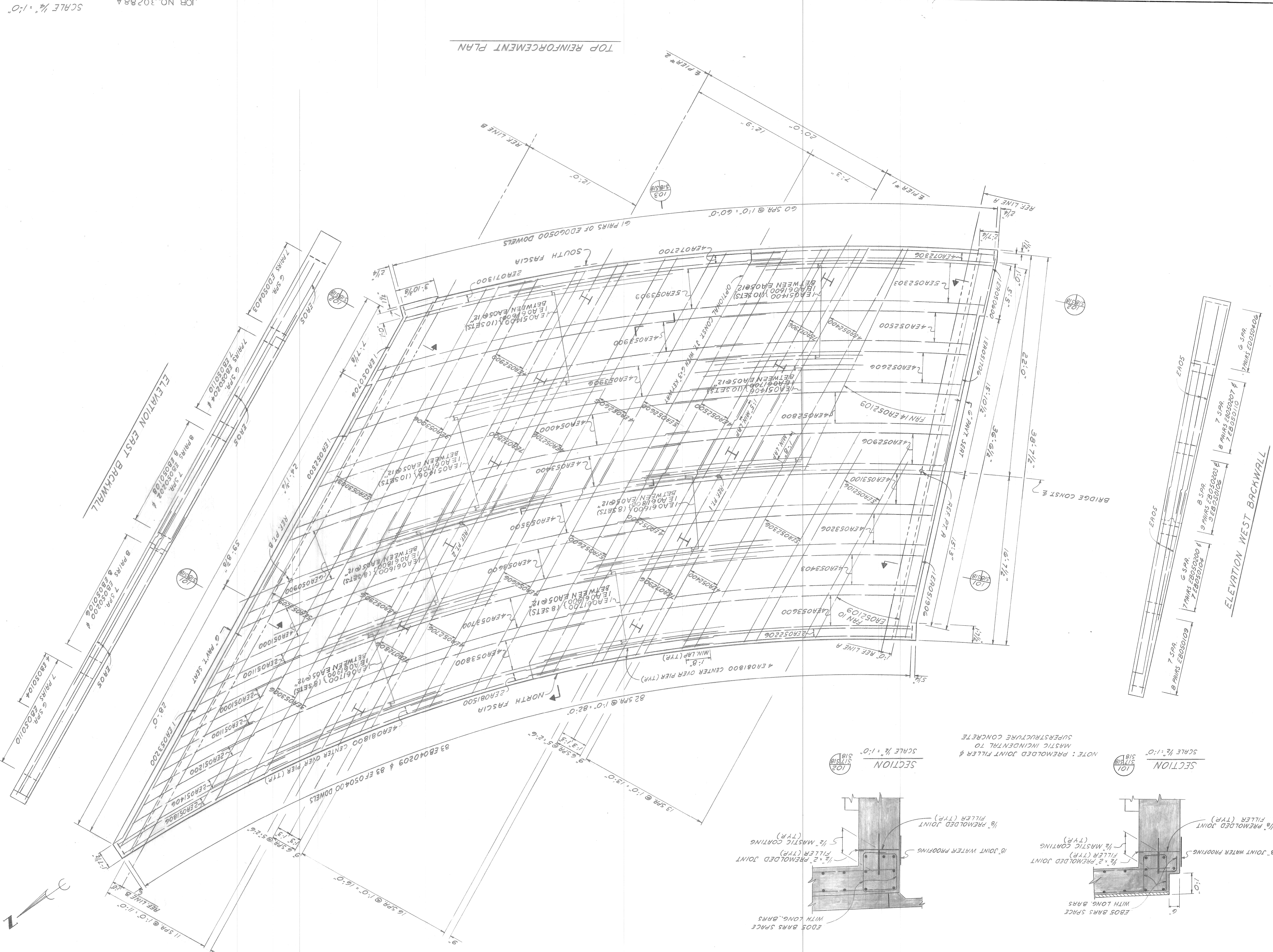
a.o. contract no. sheet of drawing no. 5-18 date NOV. 89

SLAB - TOP REINFORCING BARS RIVERSIDE AVENUE OVER FOX CREEK BW - 246

BRIDGE RECONSTRUCTION DEPARTMENT for city engineering department DETROIT OF

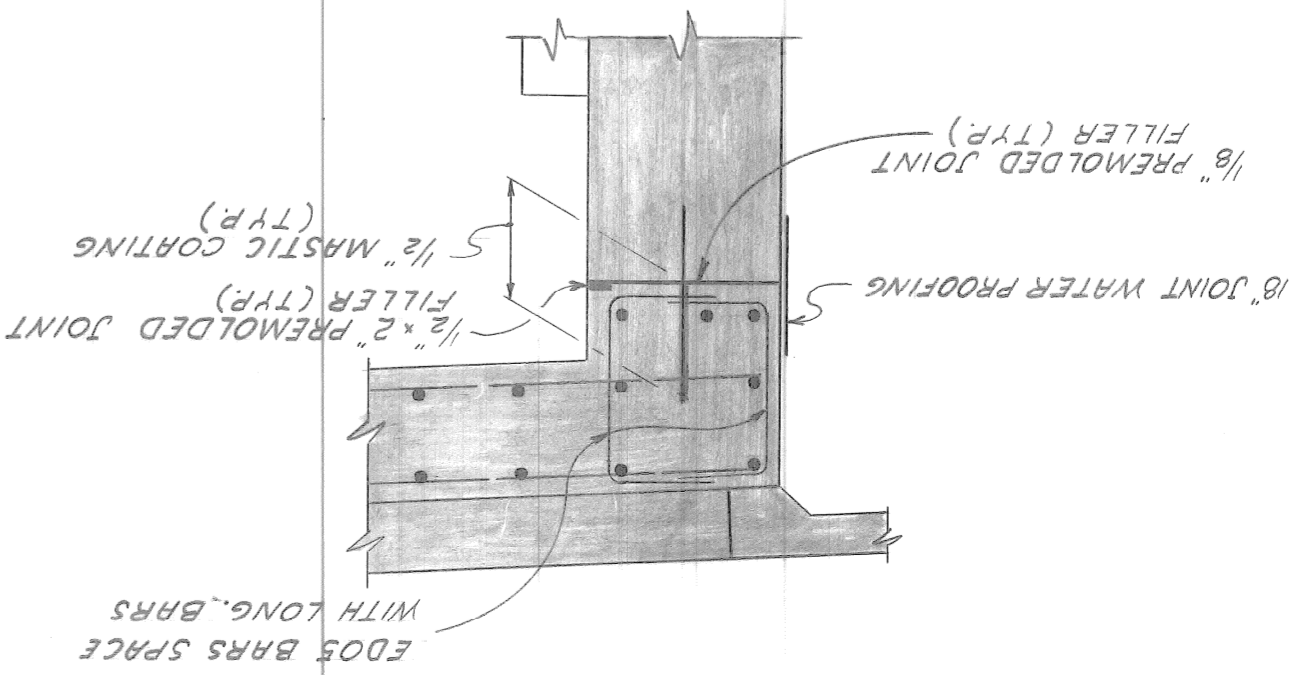
approved: by checked by D.L.N. drawn by M.C. designed by

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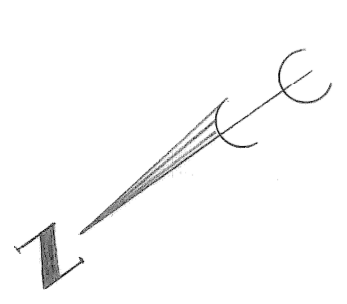
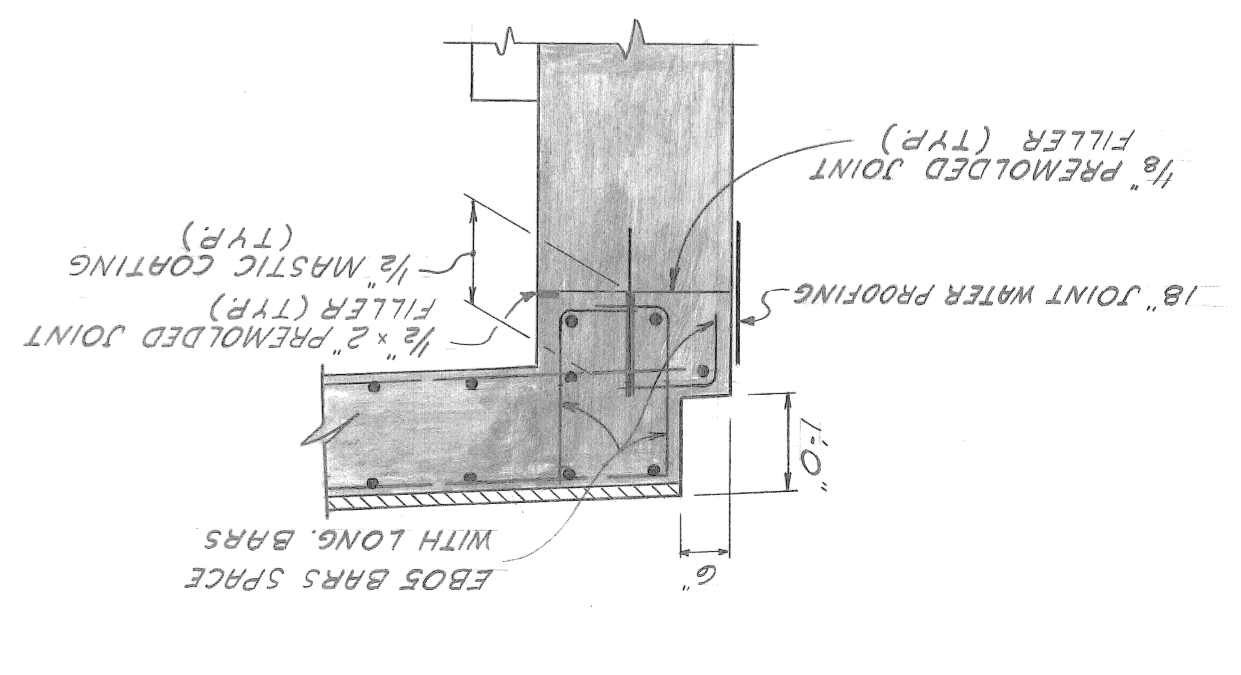


NOTE: PREMOULDED JOINT FILLER & MASTIC INCIDENTAL TO SUPERSTRUCTURE CONCRETE

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



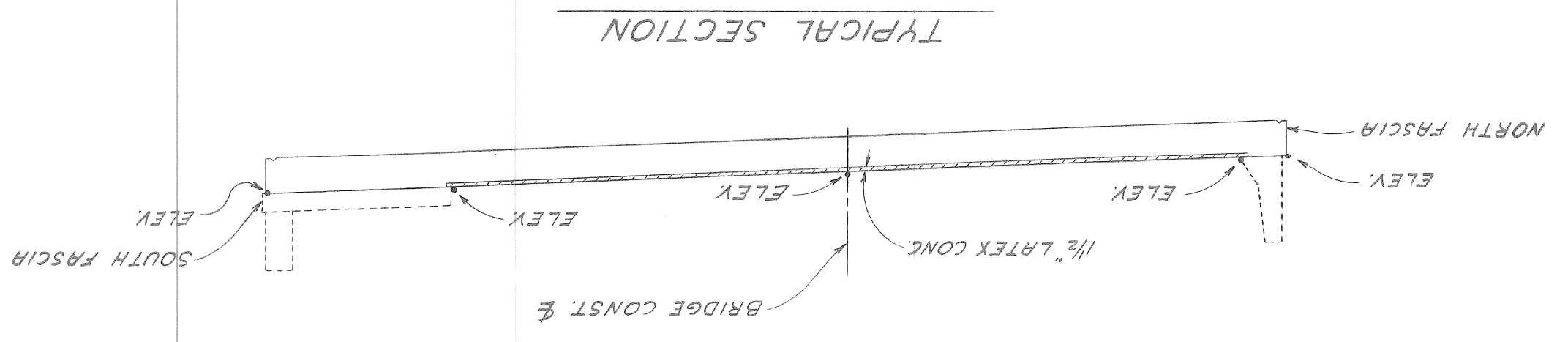
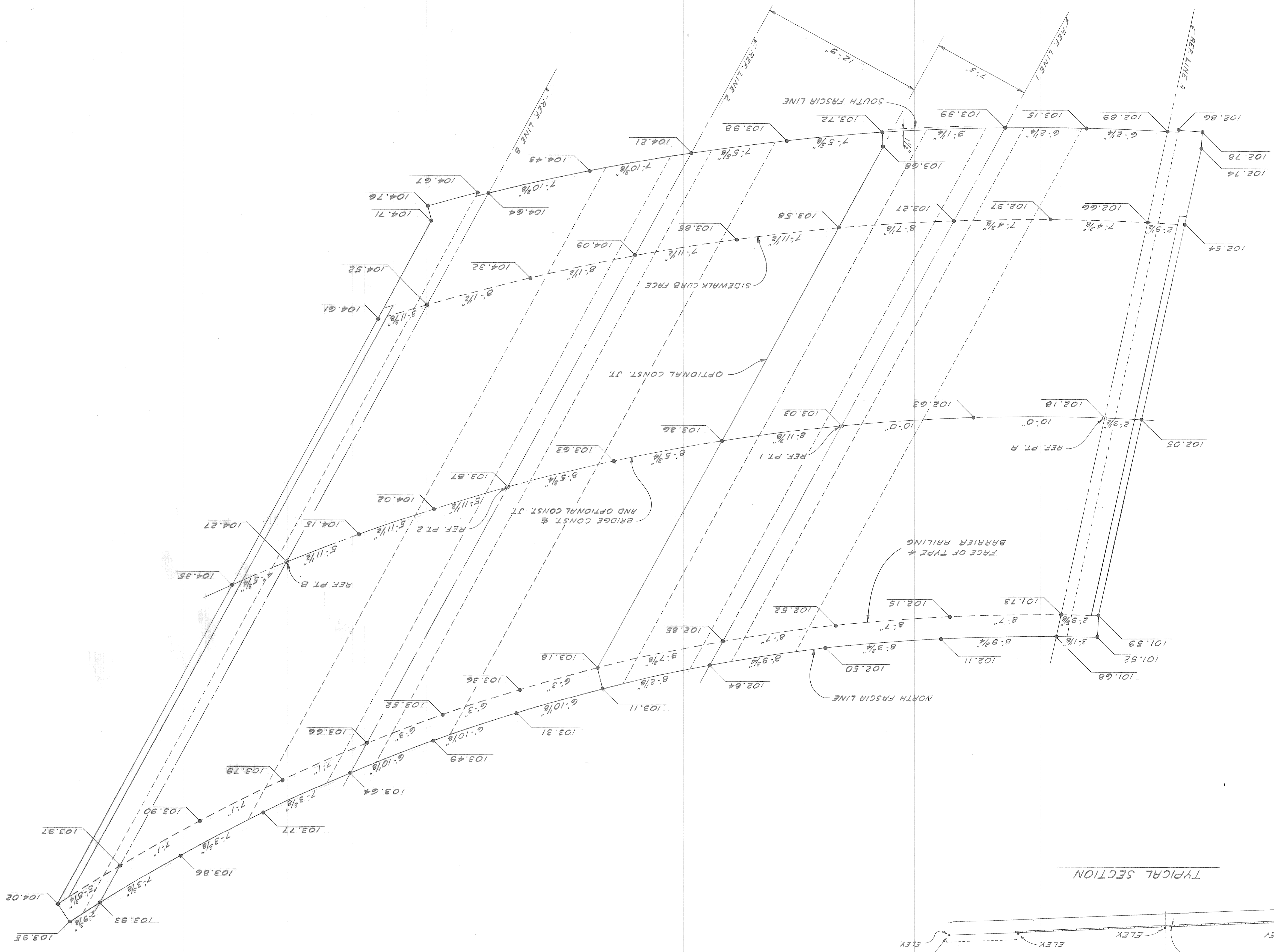
SECTION SCALE 1/2" = 1'-0"



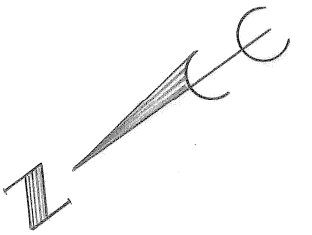
date NOV. 89

NOTE: ALL DIMENSIONS ARE CHORD DIMENSIONS
SCALE 1/4" = 1'-0"

TOP OF SLAB ELEVATIONS



ELEVATIONS GIVEN ARE FINAL TOP OF STRUCTURAL
SLAB ELEVATIONS; SUBTRACT 1/2" FOR BOTTOM OF
LATEX ELEVATIONS; SUBTRACT 1'-0" FOR PAVEMENT
SEAT ELEVATIONS; AND SUBTRACT 1'-4" FOR
BOTTOM OF SLAB ELEVATIONS. ADDITIONAL
ELEVATION DATA WILL BE MADE AVAILABLE,
DURING CONSTRUCTION, UPON REQUEST.



a.o. contract no. sheet of drawing no. 5-20 date NOV. 89

TOP OF SLAB ELEVATIONS
RIVERSIDE AVENUE OVER FOX CREEK
BM - 246

BRIDGE RECONSTRUCTION
CITY OF DETROIT
ENGINEERING DEPARTMENT
FOR DEPARTMENT OF PUBLIC WORKS

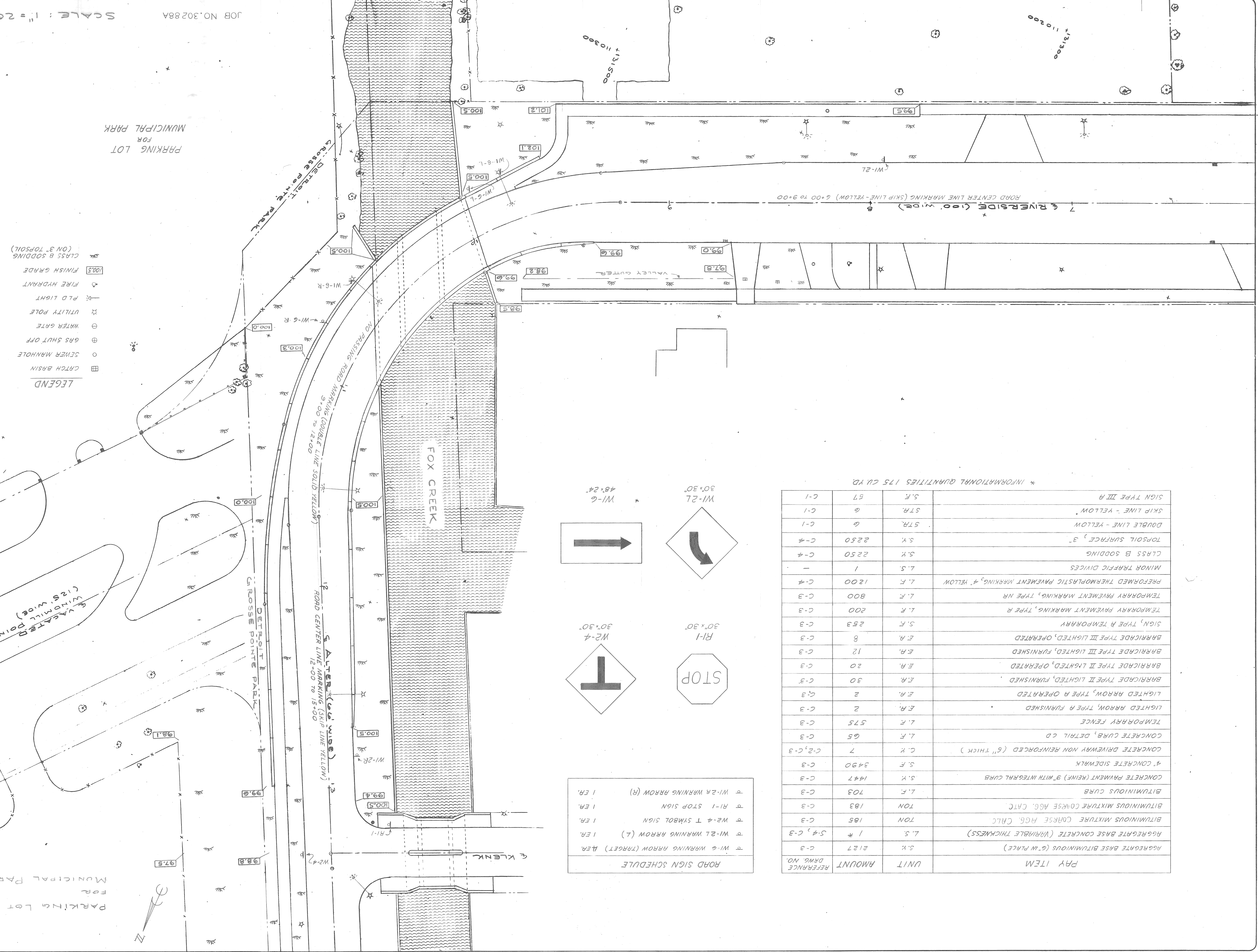
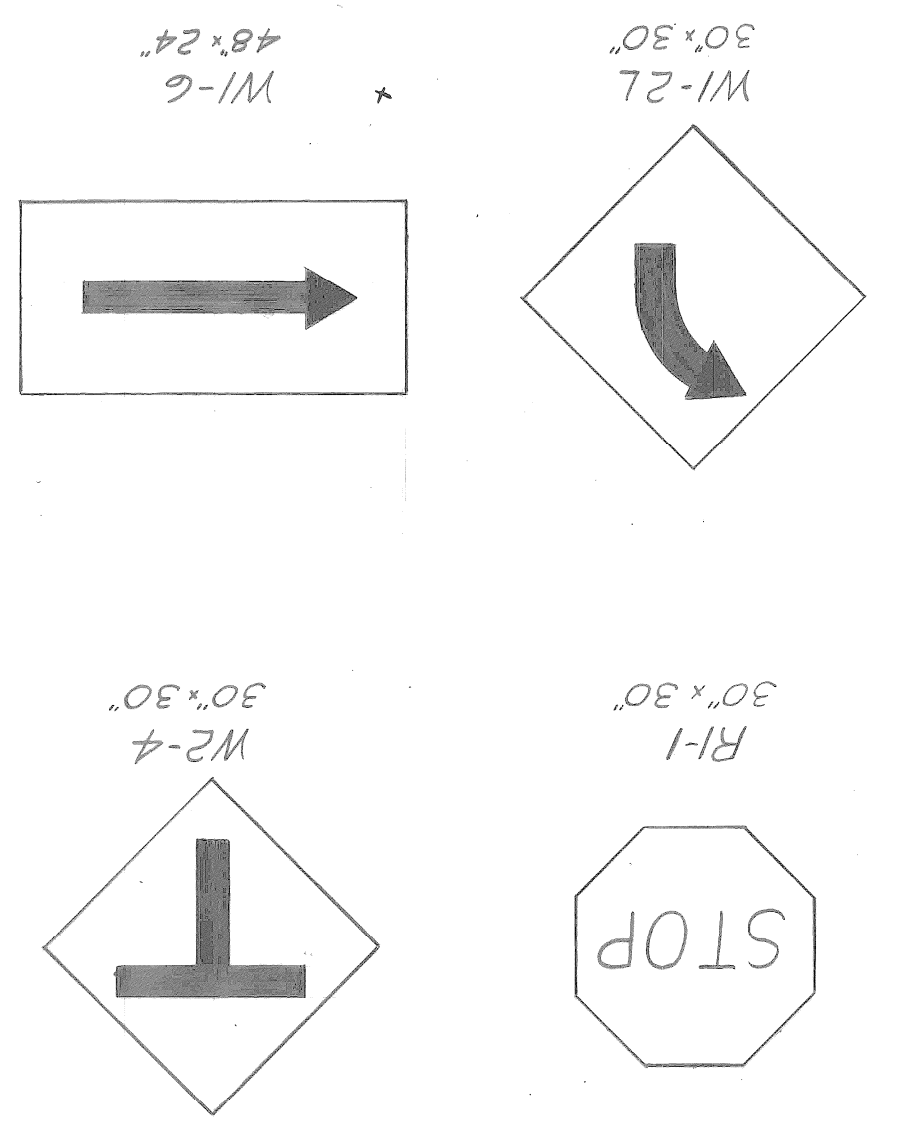
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| PAY ITEM | UNIT | AMOUNT | REFERENCE |
|---|------|--------|-----------|
| AGGREGATE BASE BITUMINOUS (6" W PLCE) | S.Y. | 2127 | C-3 |
| AGGREGATE BASE CONCRETE (VARIABLE THICKNESS) | L.S. | 1 * | S-4, C-3 |
| BITUMINOUS MIXTURE COURSE AGG. CALC | TON | 185 | C-3 |
| BITUMINOUS MIXTURE COURSE AGG. CATC | TON | 183 | C-3 |
| BITUMINOUS CURB | L.F. | 703 | C-3 |
| CONCRETE PAVEMENT (REINFC) 9" WITH INTEGRAL CURB | S.Y. | 1447 | C-3 |
| 4" CONCRETE SIDEWALK | S.Y. | 3490 | C-3 |
| CONCRETE DRIVEWAY NON REINFORCED (6" THICK) | C.Y. | 7 | C-2, C-3 |
| CONCRETE CURB, DETAIL CD | L.F. | 65 | C-3 |
| TEMPORARY FENCE | L.F. | 575 | C-3 |
| LIGHTED ARROW, TYPE A FURNISHED | E.A. | 2 | C-3 |
| LIGHTED ARROW, TYPE A OPERATED | E.A. | 2 | C-3 |
| BARRIERADE TYPE II LIGHTED, FURNISHED | E.A. | 30 | C-3 |
| BARRIERADE TYPE II LIGHTED, OPERATED | E.A. | 20 | C-3 |
| BARRIERADE TYPE III LIGHTED, FURNISHED | E.A. | 12 | C-3 |
| BARRIERADE TYPE III LIGHTED, OPERATED | E.A. | 8 | C-3 |
| SIGN, TYPE A TEMPORARY | S.F. | 253 | C-3 |
| TEMPORARY PAVEMENT MARKING, TYPE R | L.F. | 200 | C-3 |
| TEMPORARY PAVEMENT MARKING, TYPE NR | L.F. | 800 | C-3 |
| PERFORMED THERMOPLASTIC PAVEMENT MARKING, 4" YELLOW | L.F. | 1200 | C-4 |
| MINOR TRAFFIC DIVICES | L.S. | 1 | - |
| CLASS B SODDING | S.Y. | 2250 | C-4 |
| TOPSOIL SURFACE, 3" | S.Y. | 2250 | C-4 |
| DOUBLE LINE - YELLOW | STA. | 0 | C-1 |
| SKIP LINE - YELLOW | STA. | 0 | C-1 |
| SIGN TYPE III A | S.F. | 57 | C-1 |

* INFORMATIONAL QUANTITIES 175 CU YD.

| | |
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| W-6 WARNING ARROW (TRGRT) 1EA. | 1 EA. |
| W-21 WARNING ARROW (L) 1EA. | 1 EA. |
| W-2-4 T SYMBOL SIGN 1EA. | 1 EA. |
| R-1 STOP SIGN 1EA. | 1 EA. |
| W-21-2 WARNING ARROW (R) 1EA. | 1 EA. |



- LEGEND**
- ▣ CATCH BASIN
 - SEWER MANHOLE
 - ⊕ GAS SHUT OFF
 - ⊗ WATER GATE
 - ⊙ UTILITY POLE
 - ⊙ FIRE HYDRANT
 - ⊙ PLD LIGHT
 - ⊙ FINISH GRADE
 - ⊙ CLASS B SODDING (ON 3" TOPSOIL)

a.o. contract no. sheet of drawing no. date NOV. 89
 FINAL SITE PLAN
 BW-246
 RIVERSIDE AVENUE OVER FOX CREEK
 RECONSTRUCTION
 CITY OF DETROIT city engineering department
 DEPARTMENT OF PUBLIC WORKS
 BRIDGE
 designed by _____
 drawn by _____
 checked by _____
 approved by _____
 REVISIONS
 dr'n ck'd ap'vd date

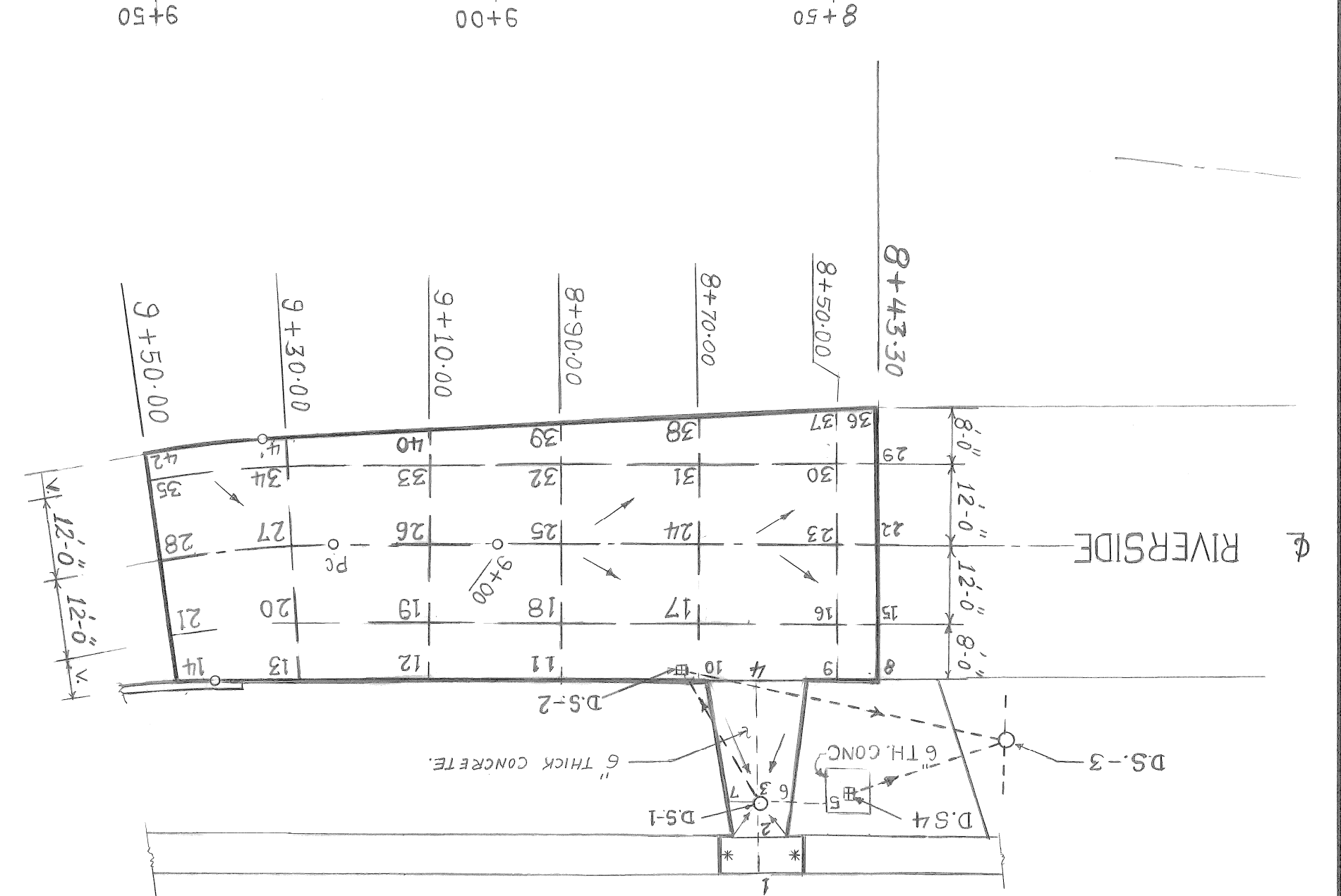
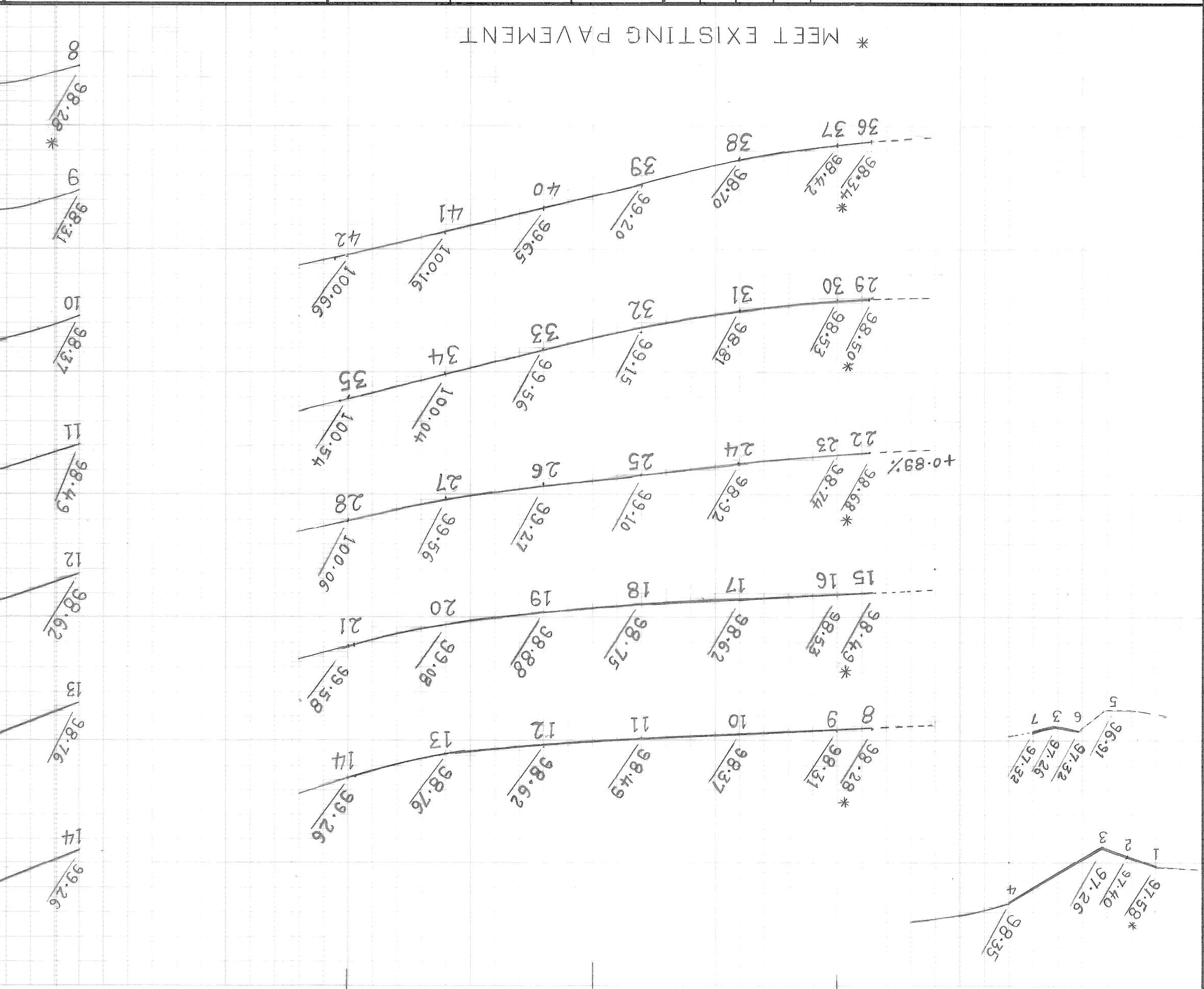
JOB NO. 302884 SCALE: 1" = 20'

PARKING LOT FOR MUNICIPAL PARK

PARKING LOT FOR MUNICIPAL PARK

DRAWING NO. 1500 L

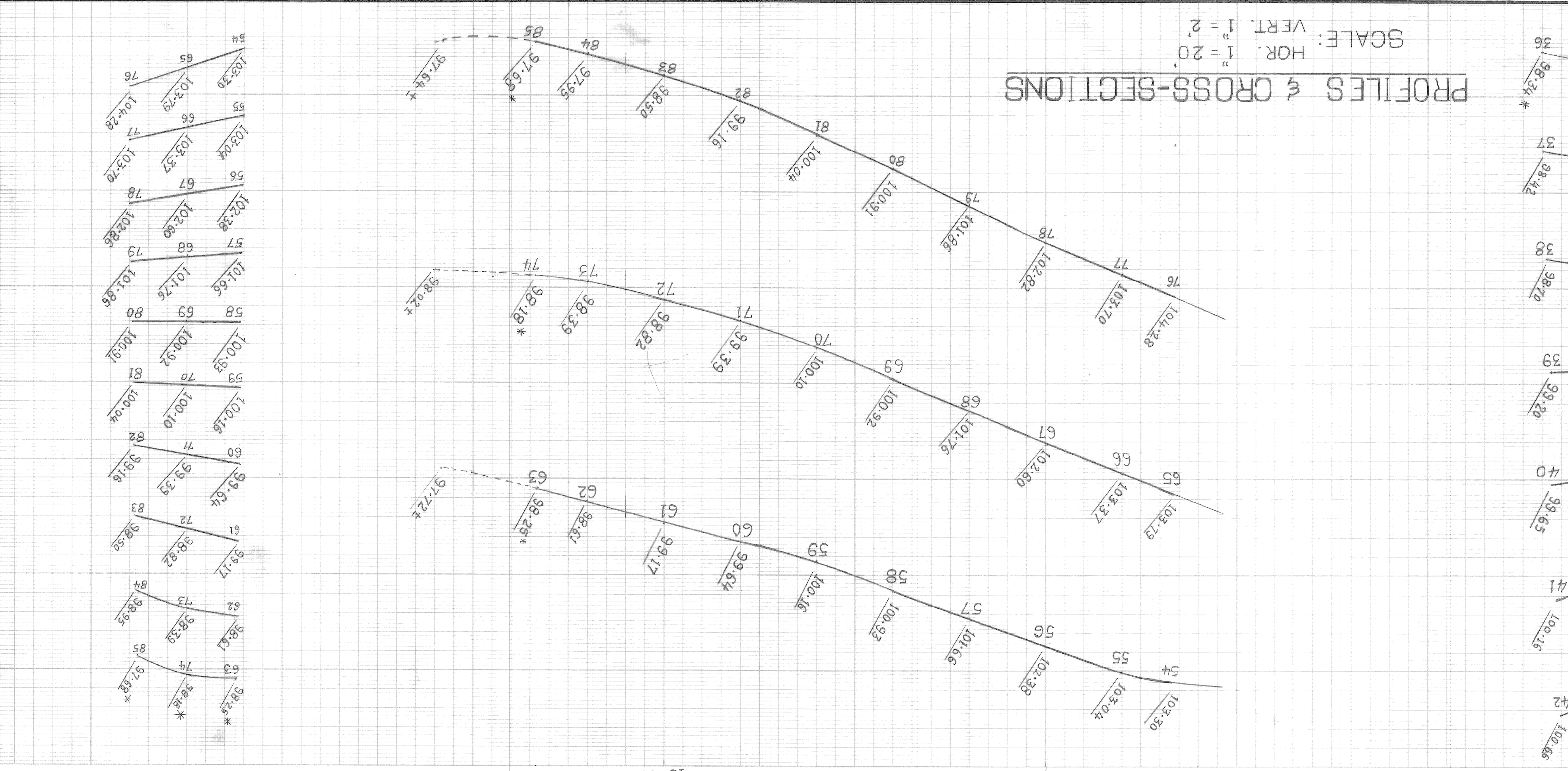
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PLAN SCALE: 1" = 20'

CITY OF DETROIT
ENGINEERING DEPARTMENT
BUREAUS OF STREETS AND HIGHWAYS

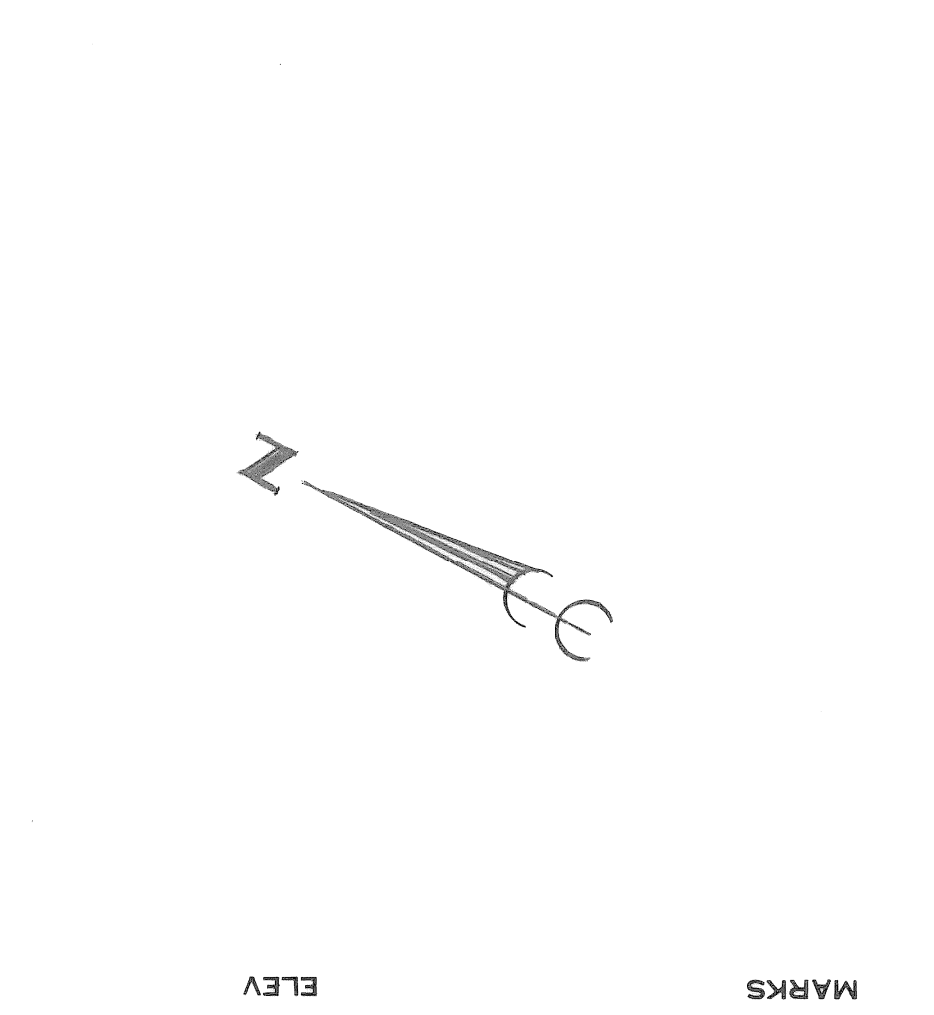
CITY OF DETROIT
ENGINEERS OF STREETS
HIGHWAY ENGINEERS



PROFILES & CROSS-SECTIONS SCALE: HOR. 1" = 20' VERT. 1" = 2'

STRIP AND RE SURFACE
 CATCH BASIN
 DRAINAGE FLOW ARROWS

LEGEND
 RT. WALL
 ALTER



ELEV. MARKS BENCH
 NOTE - FOR SYMBOLS ETC. SEE STANDARD DETAIL DRAWING NO. C-173

| BOOK | LEVEL | DATE | REMARKS |
|------|-------|------|---------|
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| SCALE | VERTICAL | HORIZONTAL |
|-------|----------|------------|
| | 1" = 2' | 1" = 20' |

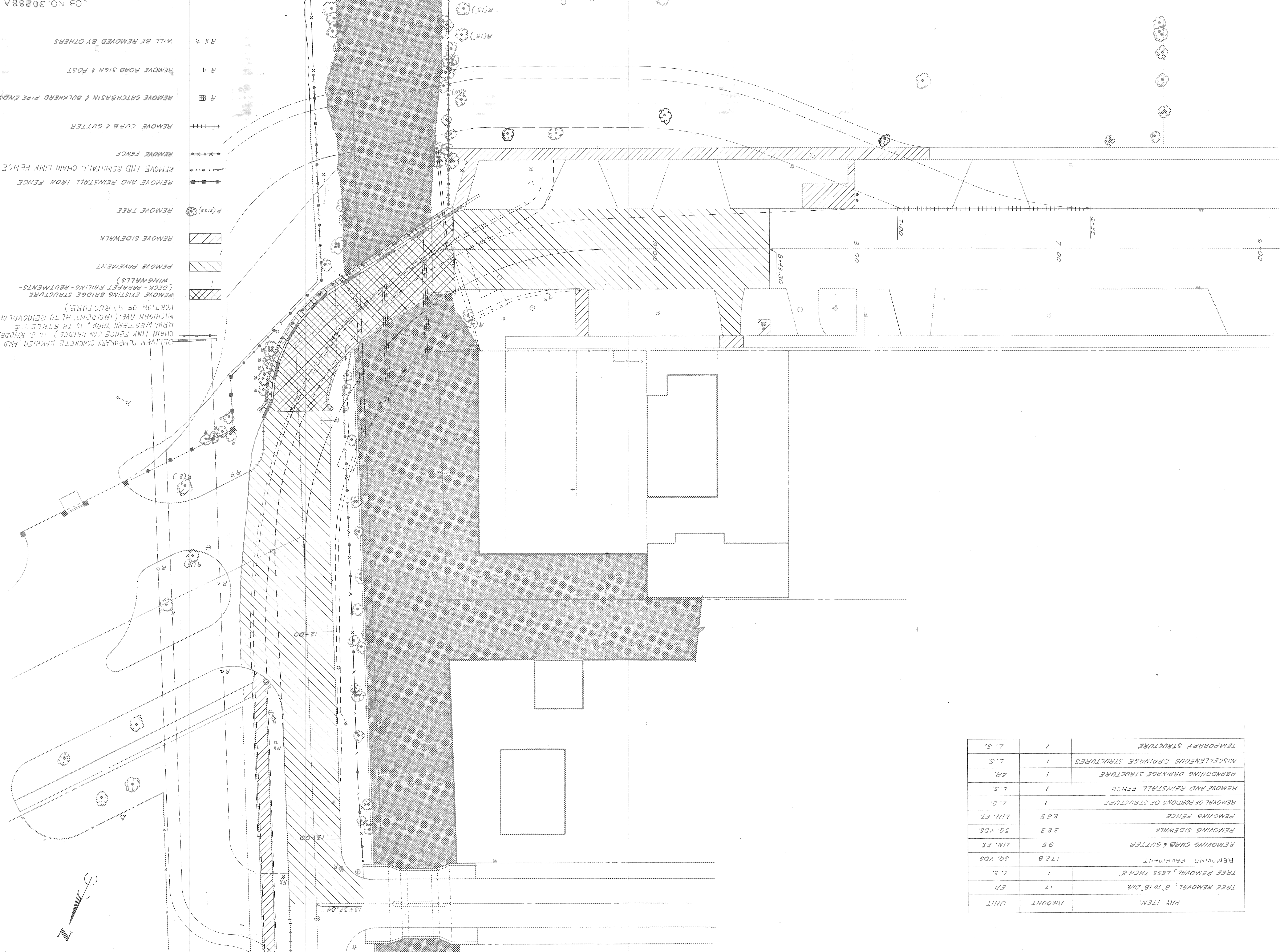
| DRAINAGE STRUCTURE TABLE | NO. | TYPE OF STRUCTURE | TRAP WITH SEMER LENGTH AND TYPE, LEAVING D.S. | SEMER INVERT LEVEL | INLET OUTLET CLASS | INLET OUTLET SIZE | TRENCH DETAIL | REMARK |
|--------------------------|---------|-------------------|---|--------------------|--------------------|-------------------|---------------|---|
| D.S.-1 | CB "A" | EXISTING | 12" C-76 III | 94.00 | - | 8 | 21 | CITY OF DETROIT STD. DRG. # C-5028 |
| D.S.-2 | CB. "B" | EXISTING | 12" C-76 III | 93.60 | 93.40 | 12 | 27 | CITY OF DETROIT STD. DRG. # C-5028 |
| D.S.-3 | M.H. | EXISTING | | | | | | |
| D.S.-4 | CB. | EXISTING | | | | | | REMOVE 6'x6' CONC. RAISE TOP TO 97.15 & REPLACE COVER WITH TYPE G ACCORDING TO MDT DRG. I-12-B. |
| D.S.-5 | CB. | EXISTING | | | | | | REMOVE EXISTING DRAINAGE STRUCTURE |

BEFORE STARTING CONSTRUCTION CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLAN.

DATE NOV. 89
 ASSIGNMENT C-2
 CONTRACT NO.
 SHEET OF SHEETS

DETAILED GRADES
 RIVERSIDE AVENUE AT FOX CREEK
 RECONSTRUCTION
 JOB NO. 30288A

| PAY ITEM | AMOUNT | UNIT |
|-----------------------------------|--------|----------|
| TREE REMOVAL, 8" TO 18" DIA. | 17 | EA. |
| TREE REMOVAL, LESS THEN 8" | 1 | L.S. |
| REMOVING PAVEMENT | 172.8 | SQ. YDS. |
| REMOVING CURB & GUTTER | 95 | LIN. FT. |
| REMOVING SIDEWALK | 32.3 | SQ. YDS. |
| REMOVING FENCE | 255 | LIN. FT. |
| REMOVAL OF PORTIONS OF STRUCTURE | 1 | L.S. |
| REMOVE AND REINSTALL FENCE | 1 | L.S. |
| ABANDONING DRAINAGE STRUCTURE | 1 | EA. |
| MISCELLANEOUS DRAINAGE STRUCTURES | 1 | L.S. |
| TEMPORARY STRUCTURE | 1 | L.S. |



a.o. contract no. sheet of drawing no. date

REMOVALS

BRIDGE RECONSTRUCTION

CITY OF DETROIT city engineering department for DEPARTMENT OF PUBLIC WORKS

designed by drawn by checked by approved:

| revisions | date | dr'n | ck'd | sp'd | vd |
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JOB NO. 30288A

NOV. 29 1989

**REINFORCED CONCRETE SKEW ARCH
OVER FOX CREEK
ON RIVERSIDE BOULEVARD**
CITY ENGINEER'S OFFICE
DETROIT, MICHIGAN
May, 26th, 1909
U.S.

PRELIMINARY PLAN A
JULY 8, 1987

All Copings to be 1:1:2 Concrete
Arch Ring and Walls-1:2:4 Concrete
Reinforcing to be Curved or Twisted Steel Bars
All material from excavations to be so placed that the
fill for approaches, which are to be made by the
contractor.

