

ORIGINAL DESIGN DRAWINGS FOR ALICIA ASHMAN BRIDGE
(PROVIDED FOR REFERENCE ONLY)

CITY OF MADISON

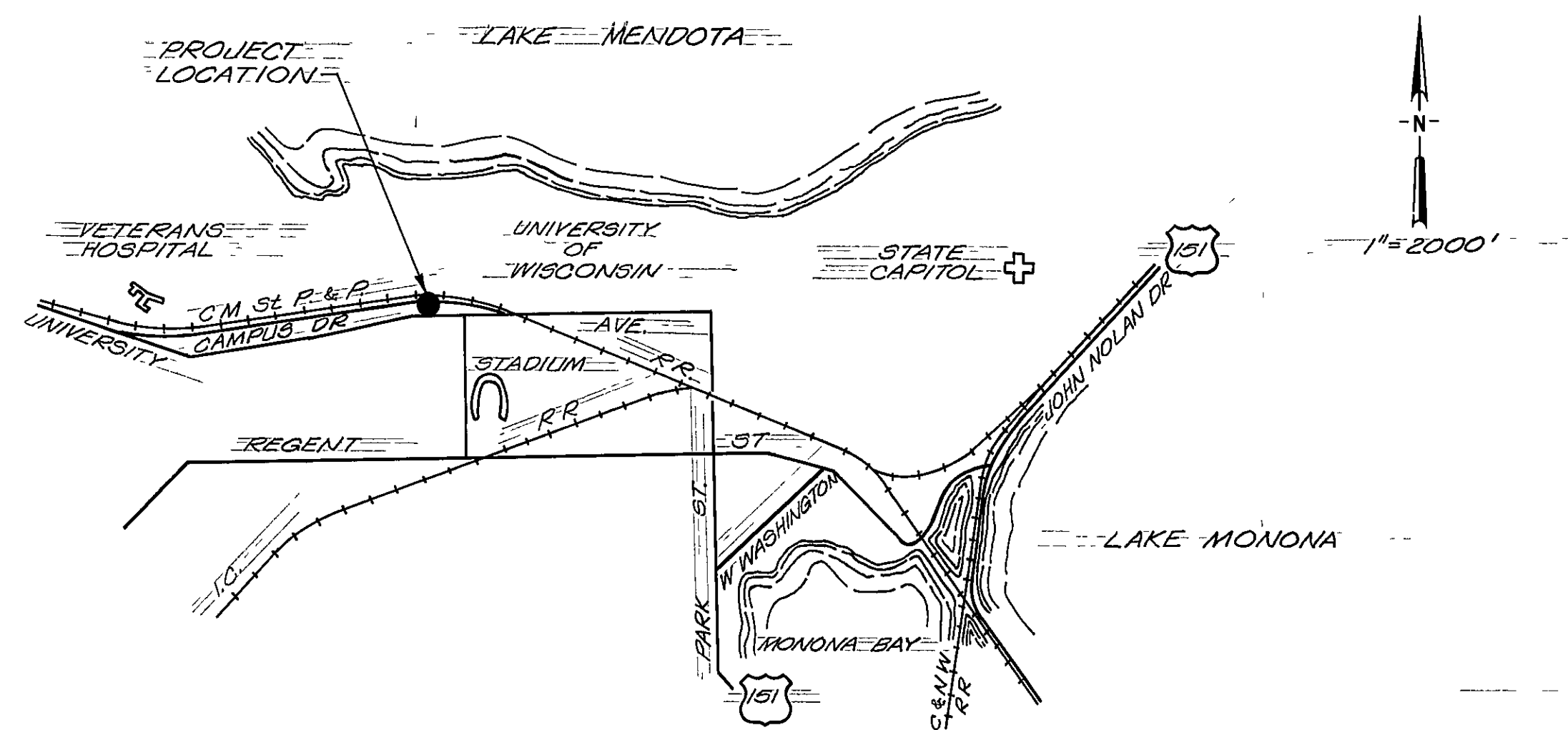
CAMPUS DR. PEDESTRIAN OVERPASS

STRAND ASSOCIATES, INC.

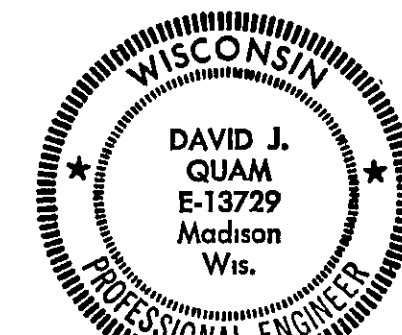
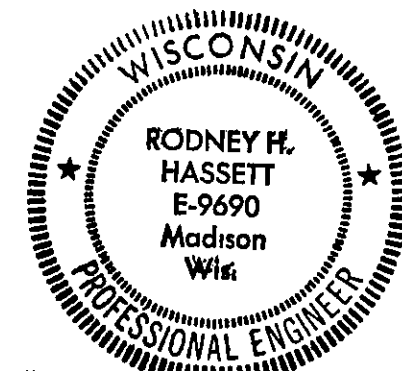
CONSULTING ENGINEERS

MADISON, WISCONSIN

MAY, 1976



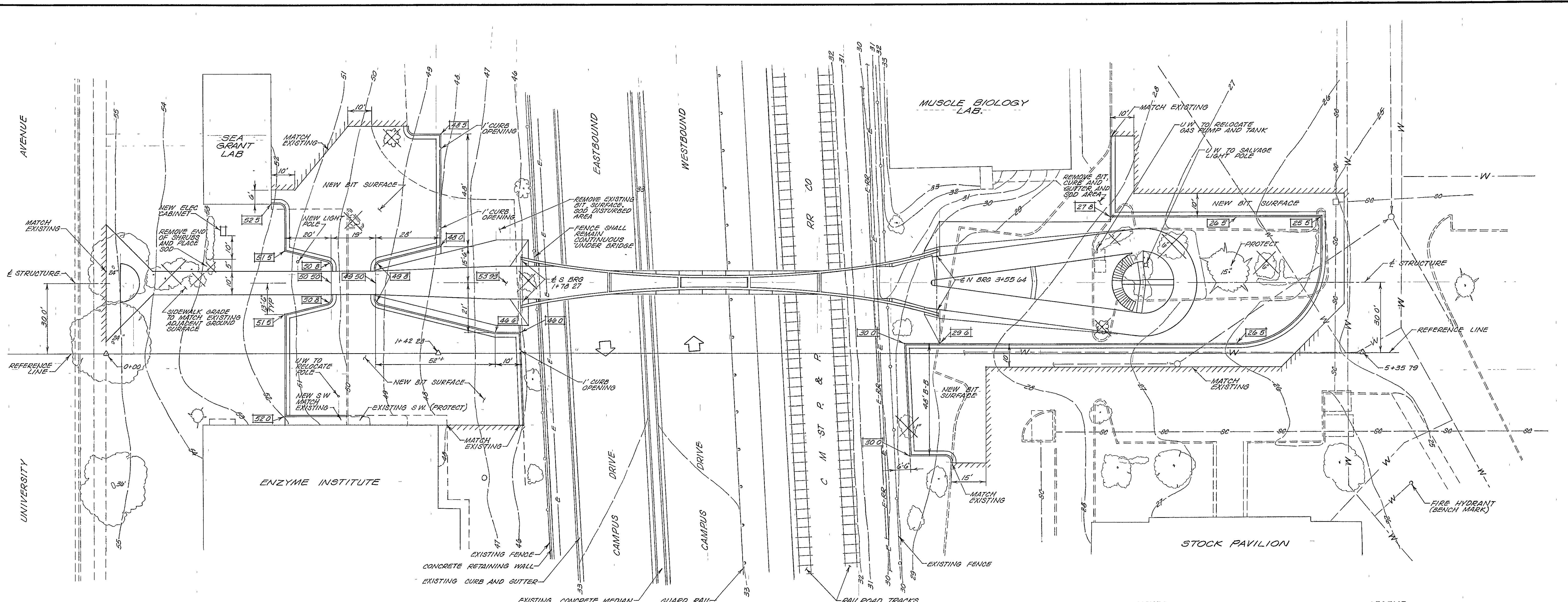
LOCATION PLAN



Rodney H. Hassett *David J. Guam*

LIST OF DRAWINGS

<u>SHEET NO.</u>		<u>DRAWING NO.</u>
1	COVER SHEET	243 - 6
2	GENERAL PLAN	243 - 7
3	ARCH FOUNDATION	243 - 8
4	STEEL ARCH	243 - 9
5	BRIDGE DECK	243 - 10
6	DECK SUPPORTS & DETAILS	243 - 11
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9	NORTH RAMP ON GRADE	243 - 14
10	SOUTH RAMP ON GRADE	243 - 15
11	RAMP DETAILS	243 - 16
12	ELECTRICAL PLAN	243 - 17



DESIGN DATA

LIVE LOAD 85 PSF

MATERIAL DESIGN STRENGTH

CONCRETE MASONRY $f'_c = 4,000$ PSI

BAR STEEL REINFORCING $f_y = 60,000$ PSI

STRUCTURAL STEEL A36 $f_y = 36,000$ PSI

A572 $f_y = 50,000$ PSI

SITE PLAN

SCALE 1"=20'

NOTES

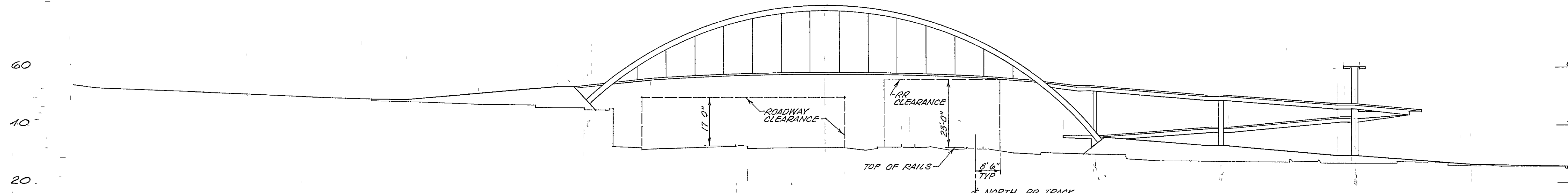
- 1 ALL STATIONING IS PERPENDICULAR TO REFERENCE LINE
- 2 WHEN NEW CURB AND GUTTER IS TO MATCH EXISTING LEVEL GRADE, SLOPE HEIGHT OF CURB FROM 6" TO 0" IN LAST 3 FT

LEGEND

- EXISTING CHAIN LINK FENCE
- EXISTING CONTOUR
- SANITARY SEWER
- REFERENCE POINT ON REF LINE
- WATER MAIN
- STEAM CONDUIT
- BURIED ELECTRIC CONDUIT
- RAILROAD SIGNAL LINE
- EXISTING CURB
- EXISTING SIDEWALK
- NEW 24" CURB AND GUTTER
- FINISH ELEVATION
- EVERGREEN TREE
- DECIDUOUS TREE AND SHRUBS
- TREE AND SHRUBS TO BE REMOVED

BENCH MARKS

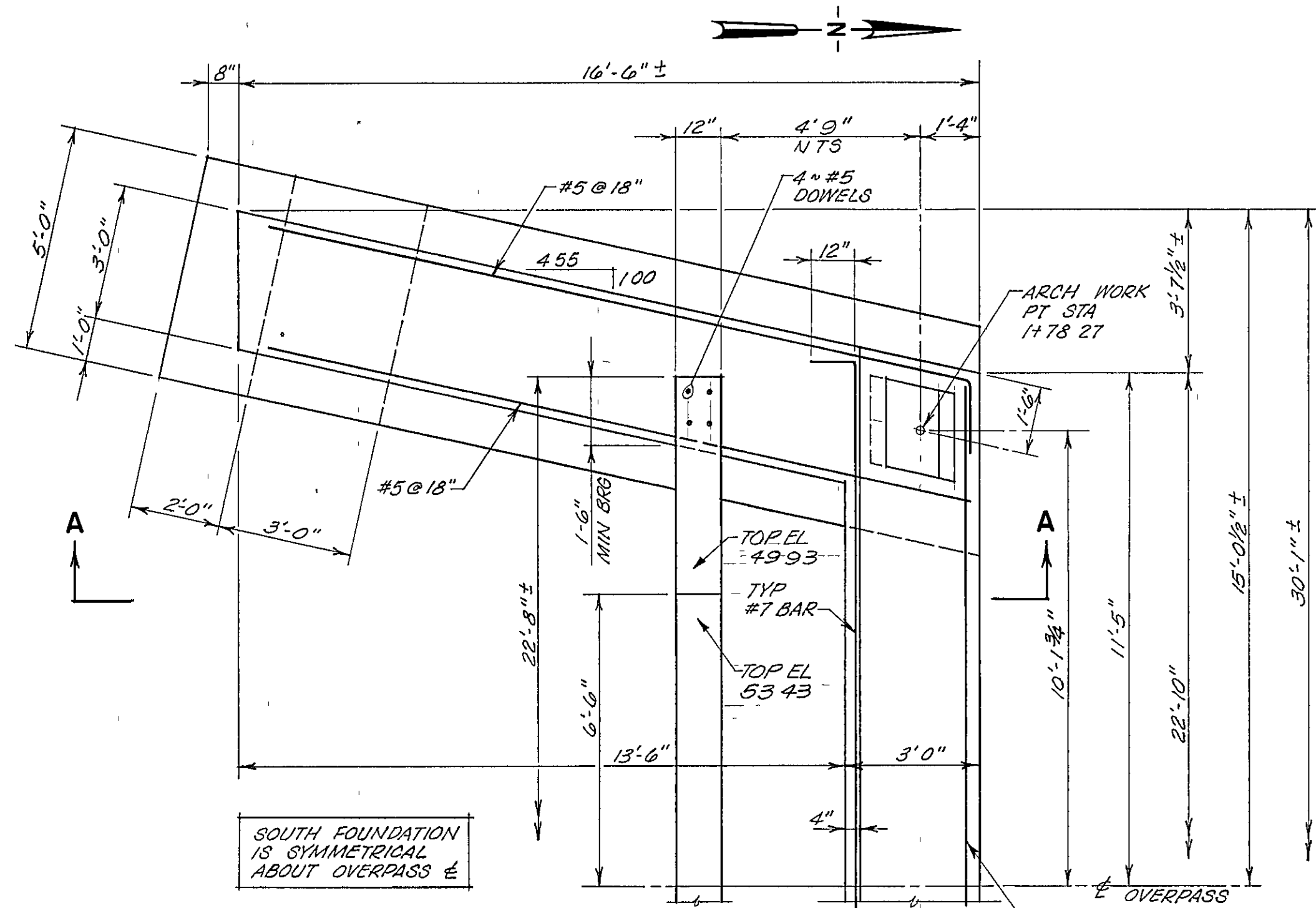
- 1 TOP OF GREEN AND YELLOW FIRE HYDRANT AT NW CORNER OF STOCK PAVILION EL 28.35
- 2 TOP OF FIRE HYDRANT AT SE CORNER OF UNIVERSITY AND PROSPECT AVENUES EL 58.72



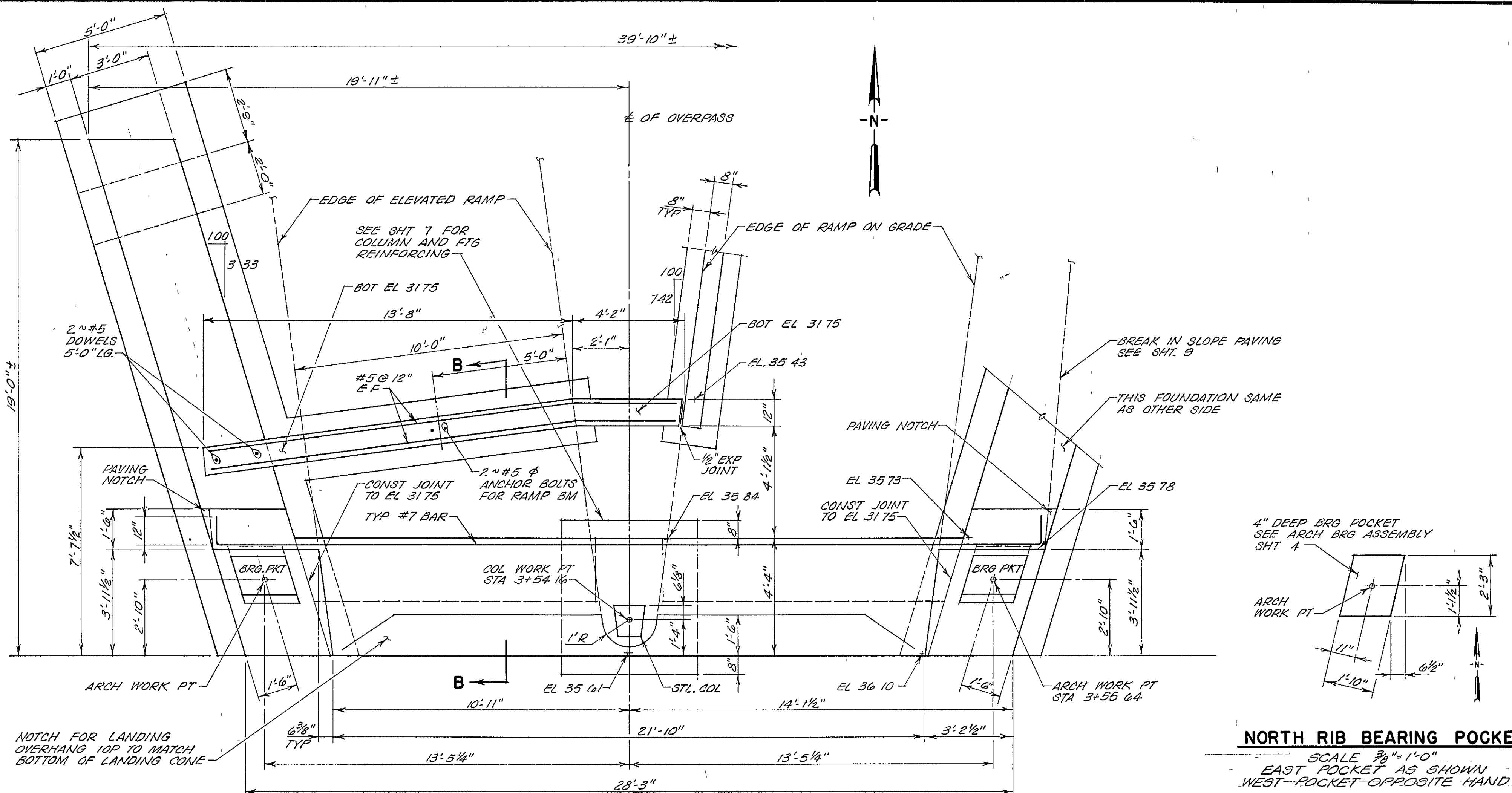
ELEVATION

SCALE 1"=20'

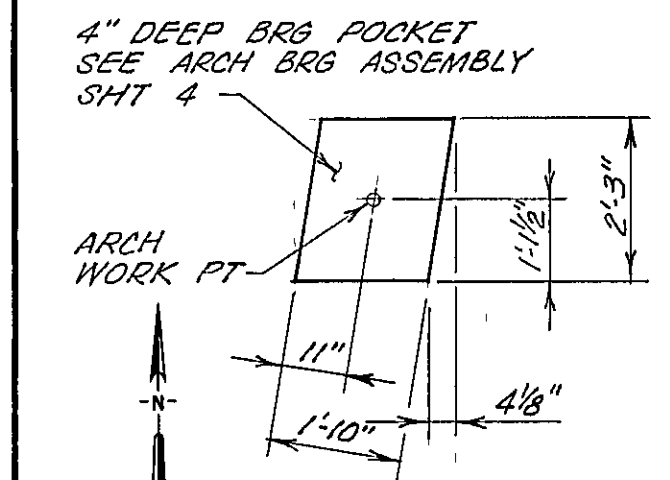
<p>STRAND ASSOCIATES INC CONSULTING ENGINEERS 910 West Wilshire Drive Madison, Wisconsin 53715 Tel (608) 251-4843</p>	<p>CAMPUS DR. PEDESTRIAN OVERPASS MADISON, WISCONSIN GENERAL PLAN</p>	
	SCALE 1" = 20'	DATE MAY 1976
	DES BY RHH	DRAWING NO
	DWN BY RCL	243-7
CHK BY RHH		
APP BY		



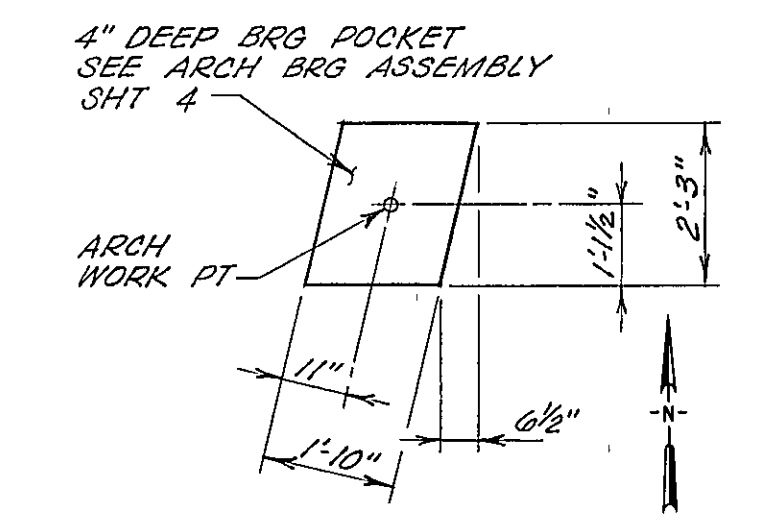
ARCH SOUTH FOUNDATION PLAN



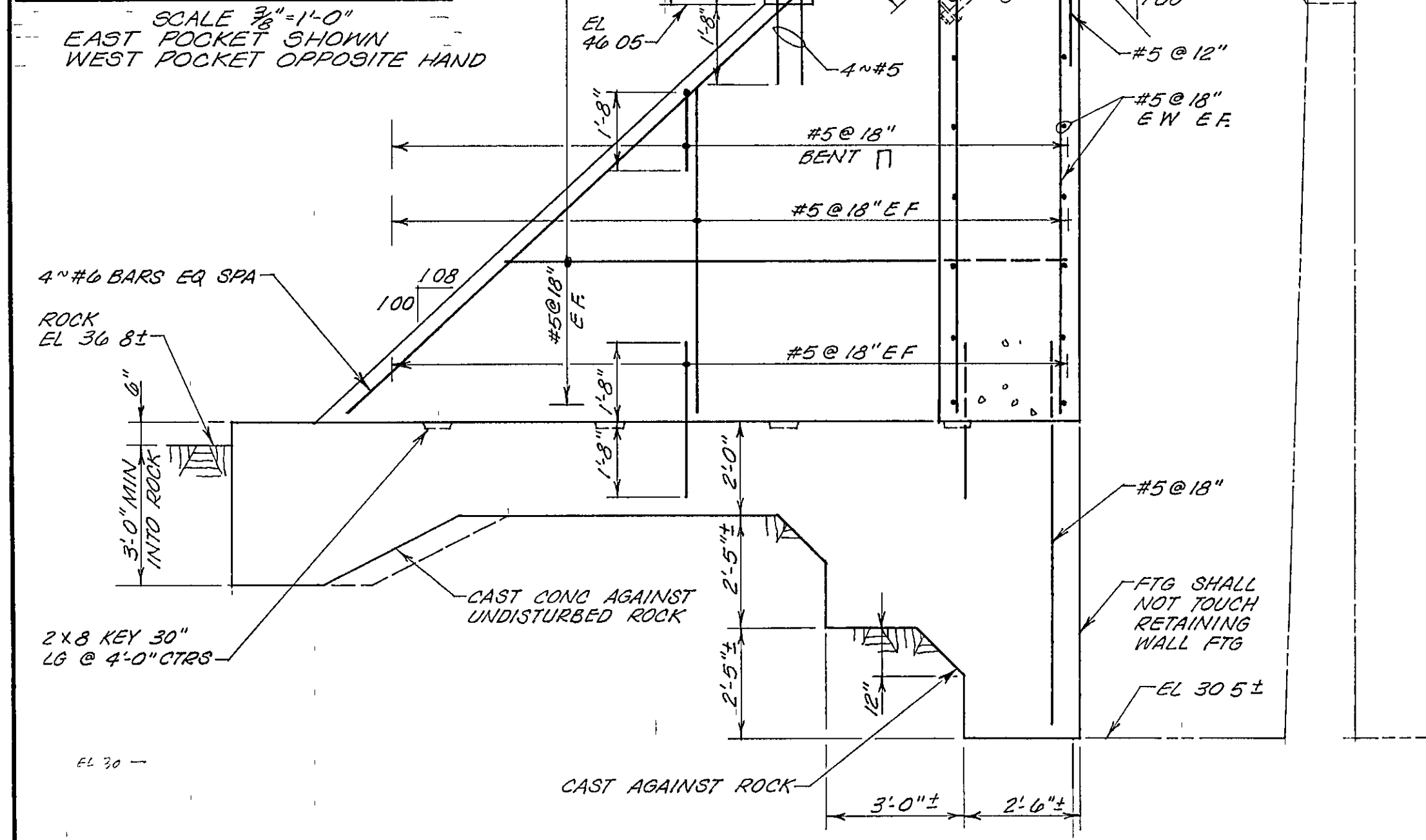
ARCH NORTH FOUNDATION PLAN



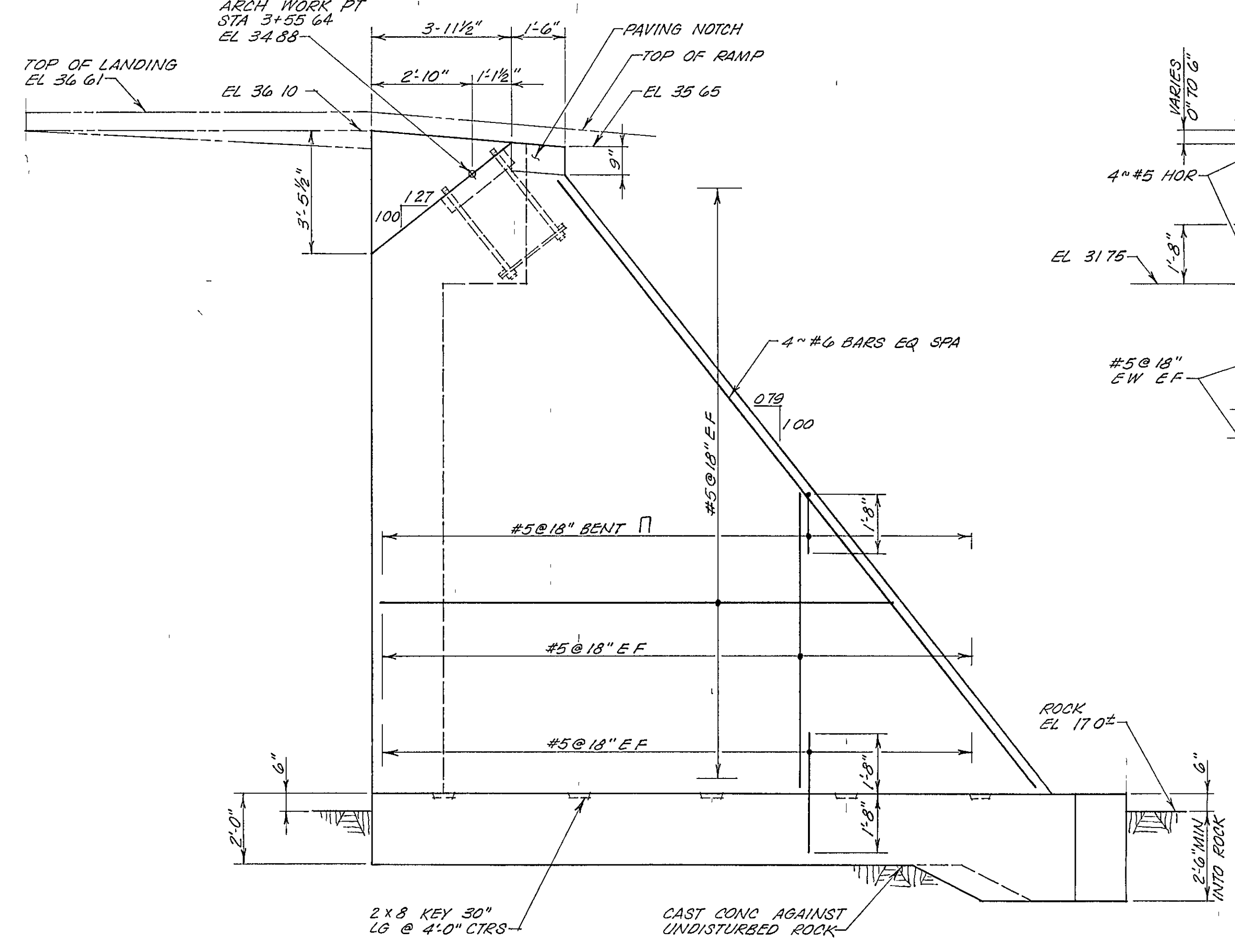
SOUTH RIB BEARING POCKET



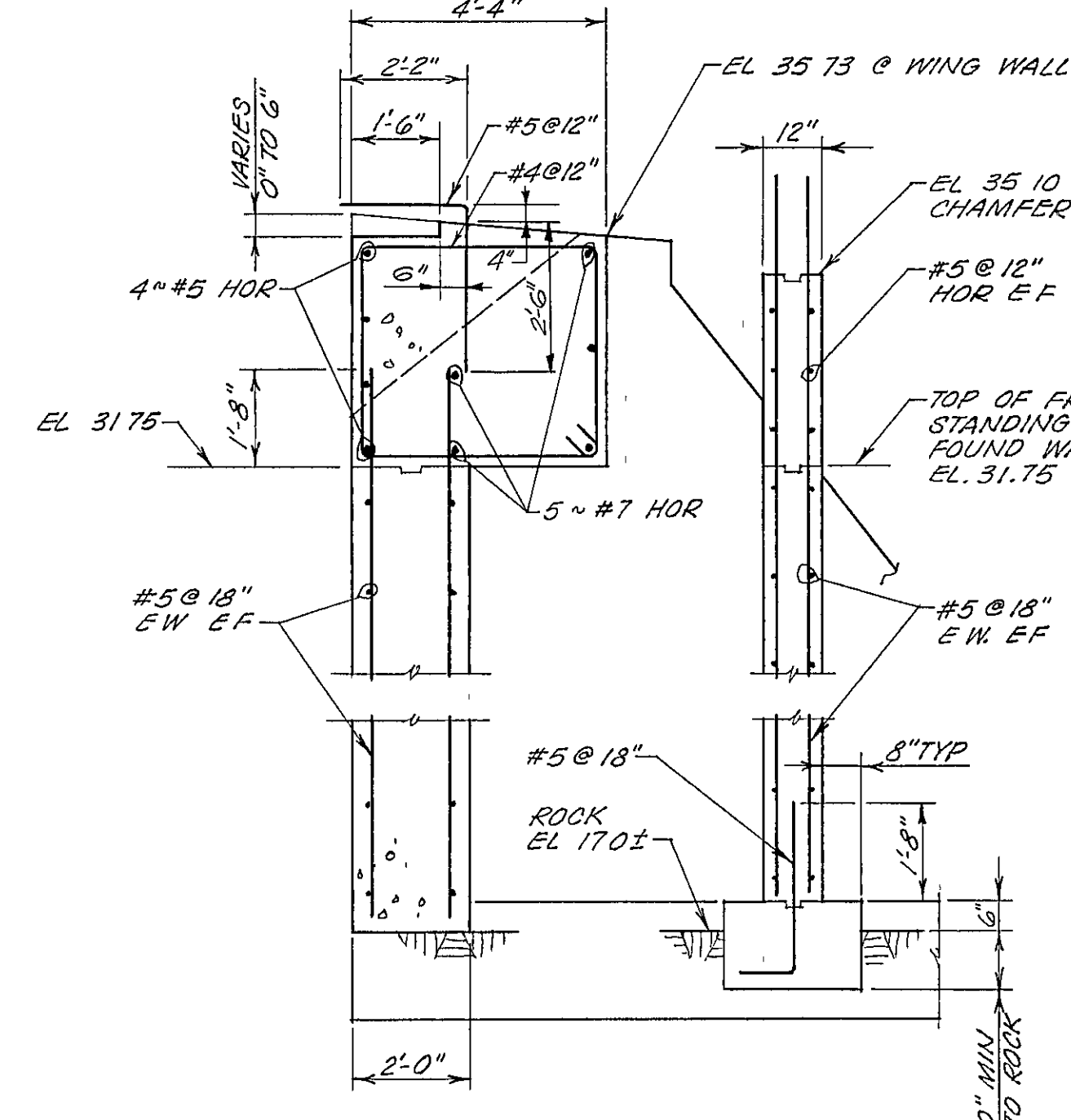
NORTH RIB BEARING POCKET



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



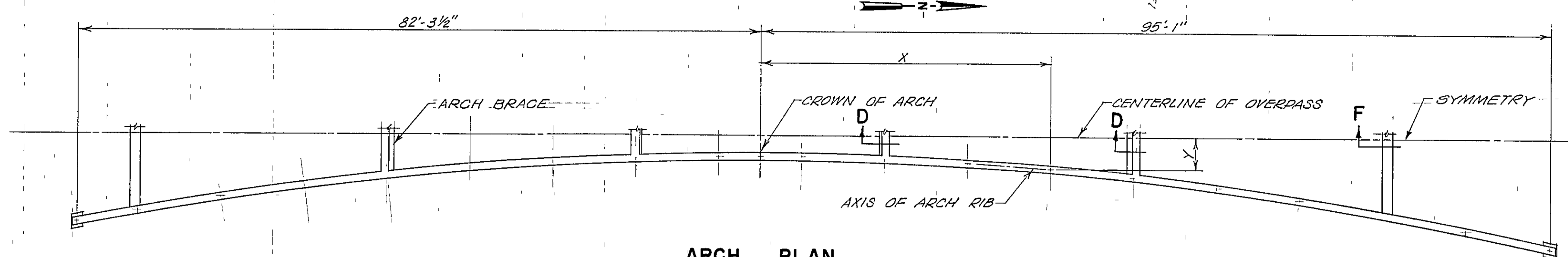
ARCH NORTH FOUNDATION ELEVATION
SCALE 3/8" = 1'-0"



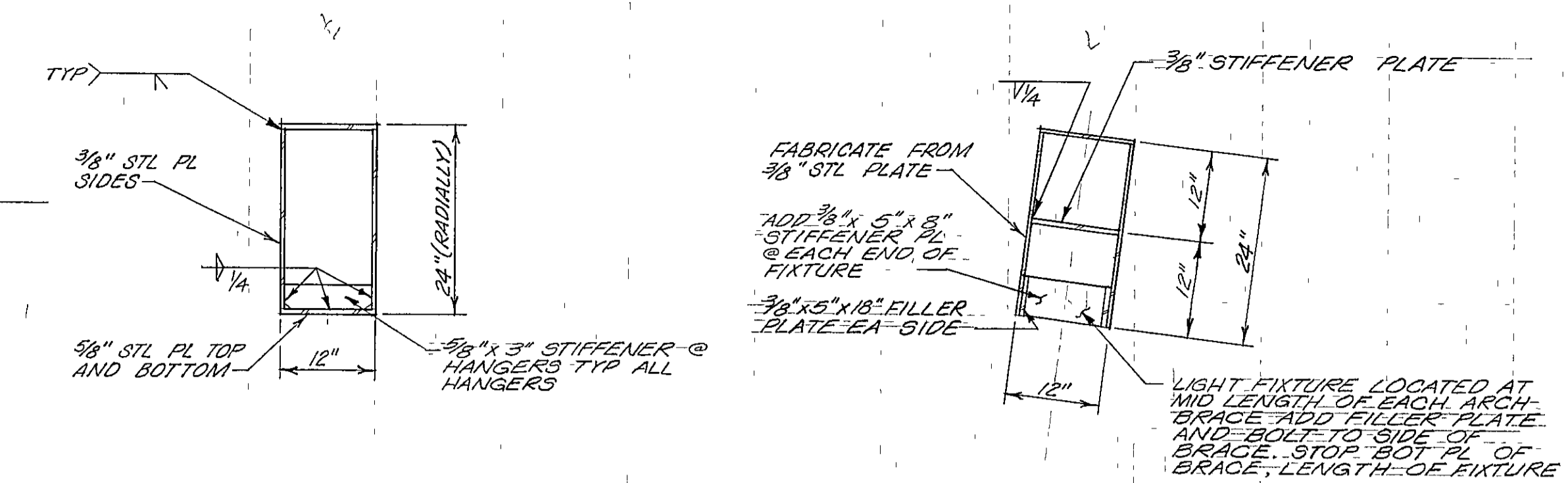
SECTION B-B
SCALE 3/8" = 1'-0"

- NOTES**
- 1 FOR SUBSURFACE BORING LOGS, SEE SPECIFICATIONS
 - 2 REFER TO ELECTRICAL SHEET 12 FOR ELECTRICAL CONDUIT TO BE CAST IN FOUNDATION
 3. USE 2 INCHES CLEAR ON ALL REINFORCING UNLESS OTHERWISE NOTED
 - 4 USE 1 INCH CHAMFER ON ALL EXPOSED EDGES.
 - 5 BACKFILL EXCAVATION WITH COMPACTED GRANULAR FILL
 - 6 FOR ARCH BASE DETAIL, SEE SHT 4

<p>STRAND ASSOCIATES INC. CONSULTING ENGINEERS 910 West Wingra Drive Madison, Wisconsin 53715 Tel (608) 251-4843</p>	<p>CAMPUS DR. PEDESTRIAN OVERPASS MADISON, WISCONSIN ARCH FOUNDATION</p>	
	<p>SCALE 3/8" = 1'-0"</p>	<p>DATE MAY, 1976</p>
	<p>DWG BY DJR DWN BY RCL CHK BY RHH APP BY</p>	<p>DRAWING NO 243-8</p>
	<p>SHEET 3 OF 12</p>	



ARCH PLAN
SCALE 1"=10'



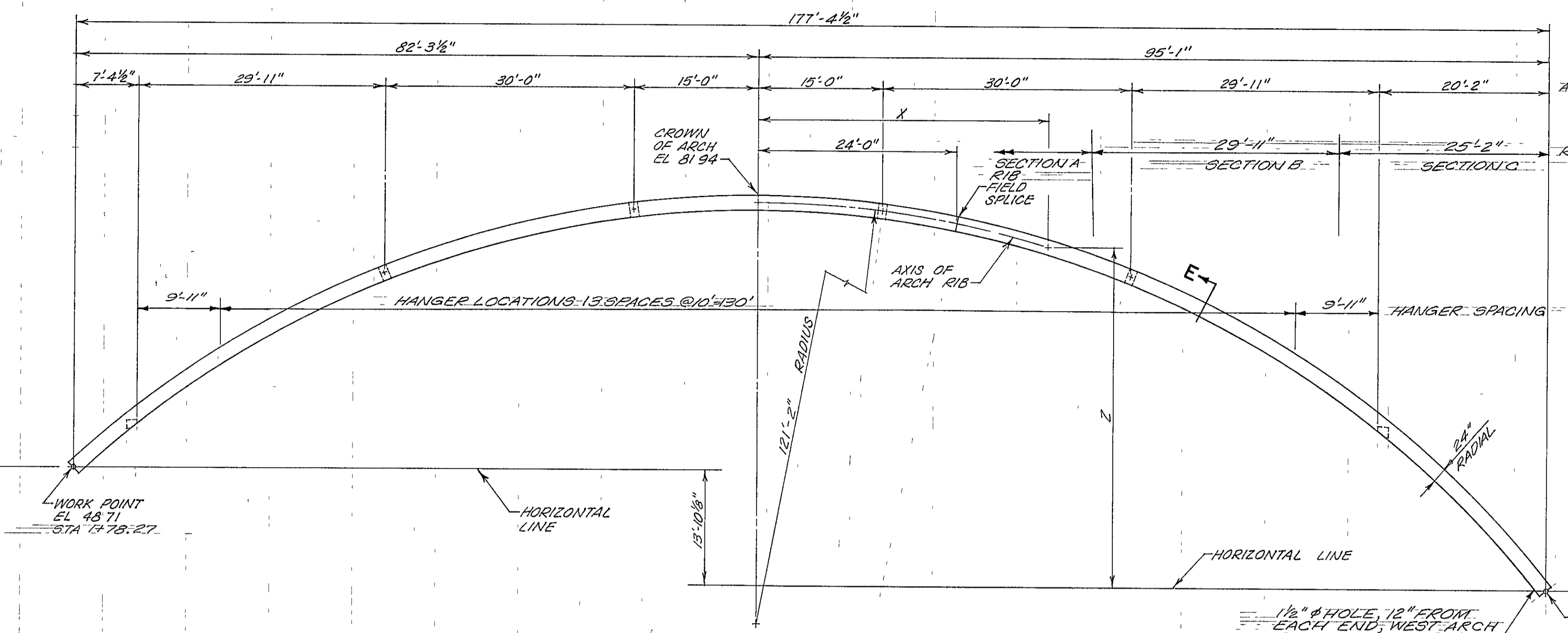
SECTION A
SCALE 3/4"=1'-0"

SECTION D
SCALE 3/4"=1'-0"

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

SECTION E
SCALE 3/4"=1'-0"

SECTION C
SCALE 3/4"=1'-0"

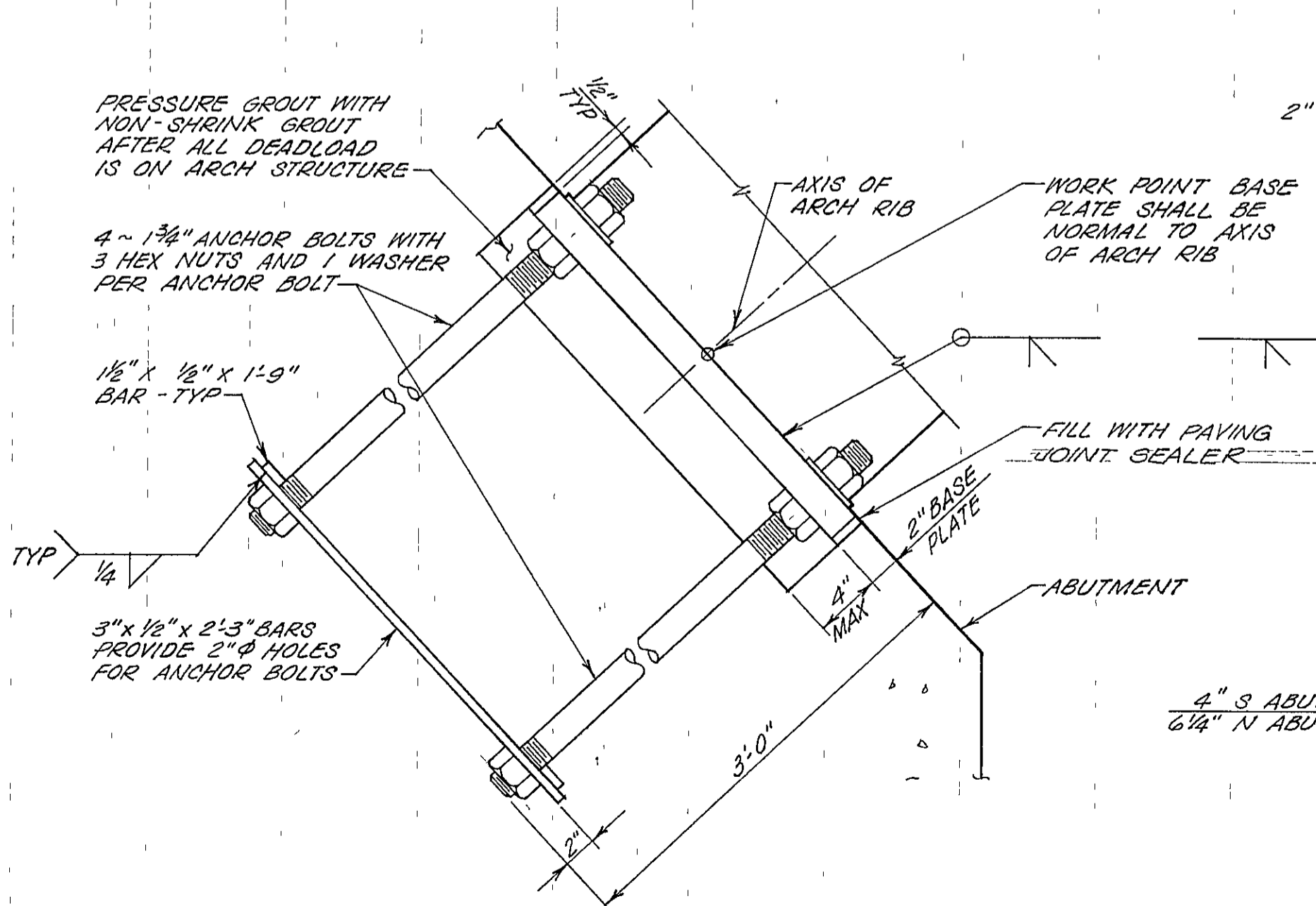


ARCH ELEVATION
SCALE 1"=10'

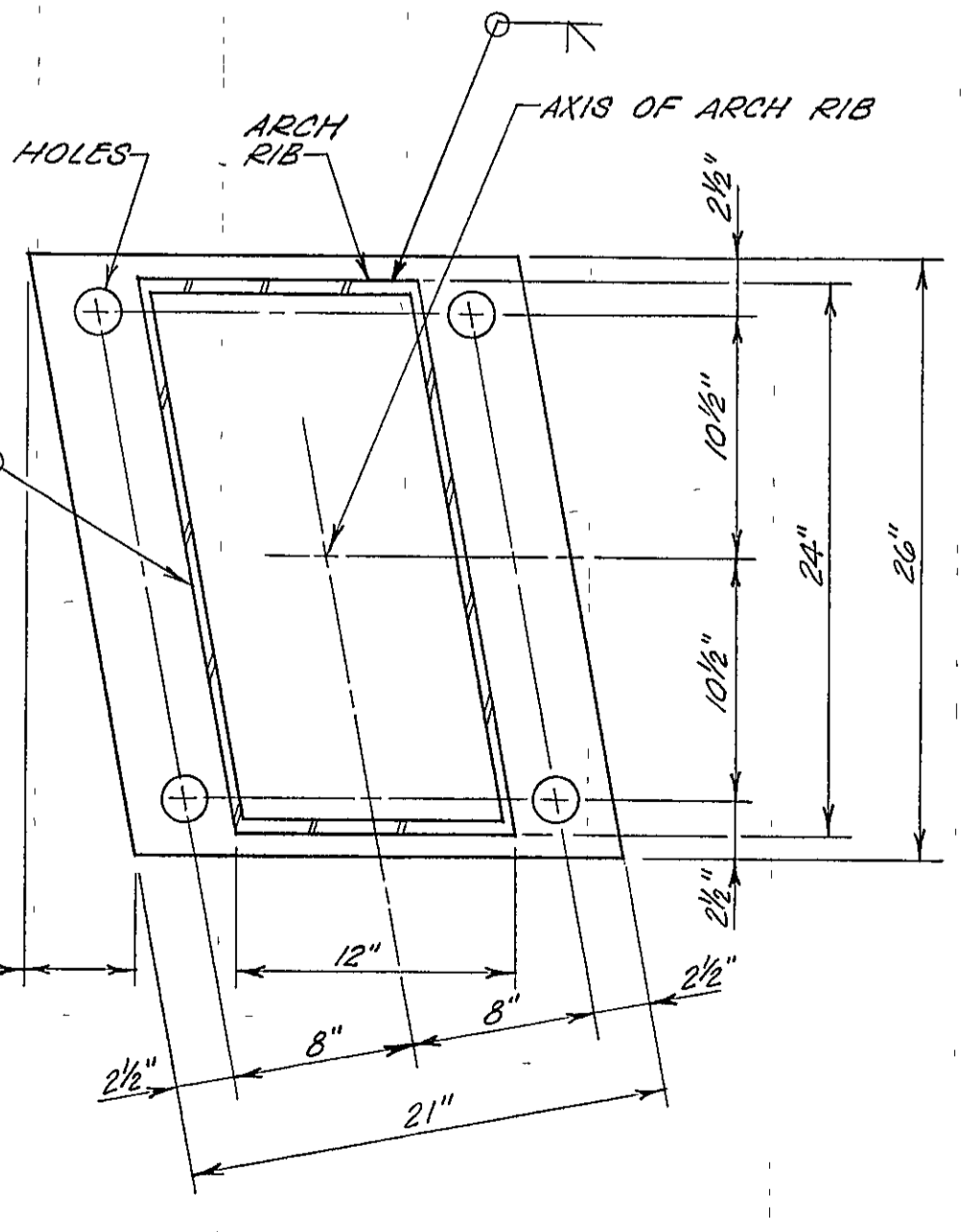
ARCH RIB GEOMETRY

	X	75	65	55	45	35	25	15	5	0	5	15	25	35	45	55	65	75	85	95.08
Y	10.15	8.67	6.99	5.63	4.56	3.73	3.12	2.72	2.52	2.5	2.52	2.72	3.12	3.73	4.56	5.63	6.99	8.67	10.77	13.44
Z	13.84	20.07	27.16	32.87	37.40	40.90	43.46	45.14	45.97	46.07	45.97	45.14	43.46	40.90	37.40	32.87	27.16	20.07	11.25	0

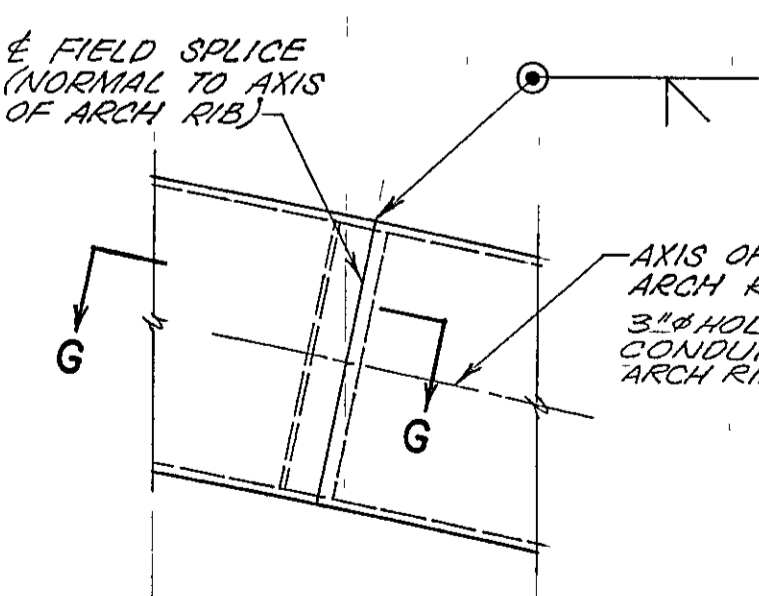
— ELLIPSE —
— CIRCLE —



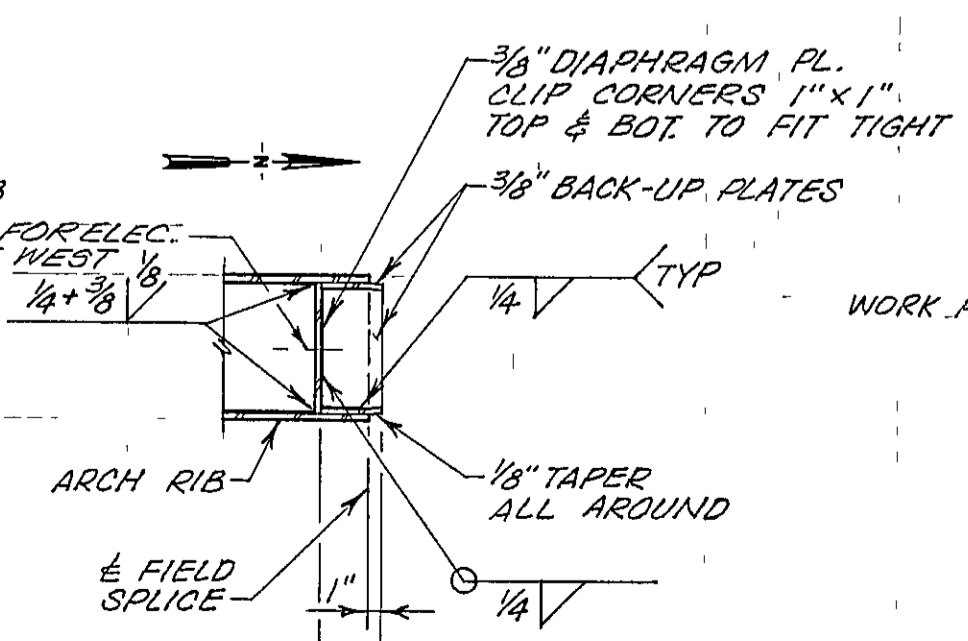
ARCH BEARING ASSEMBLY
SCALE 1/2"=1'-0"



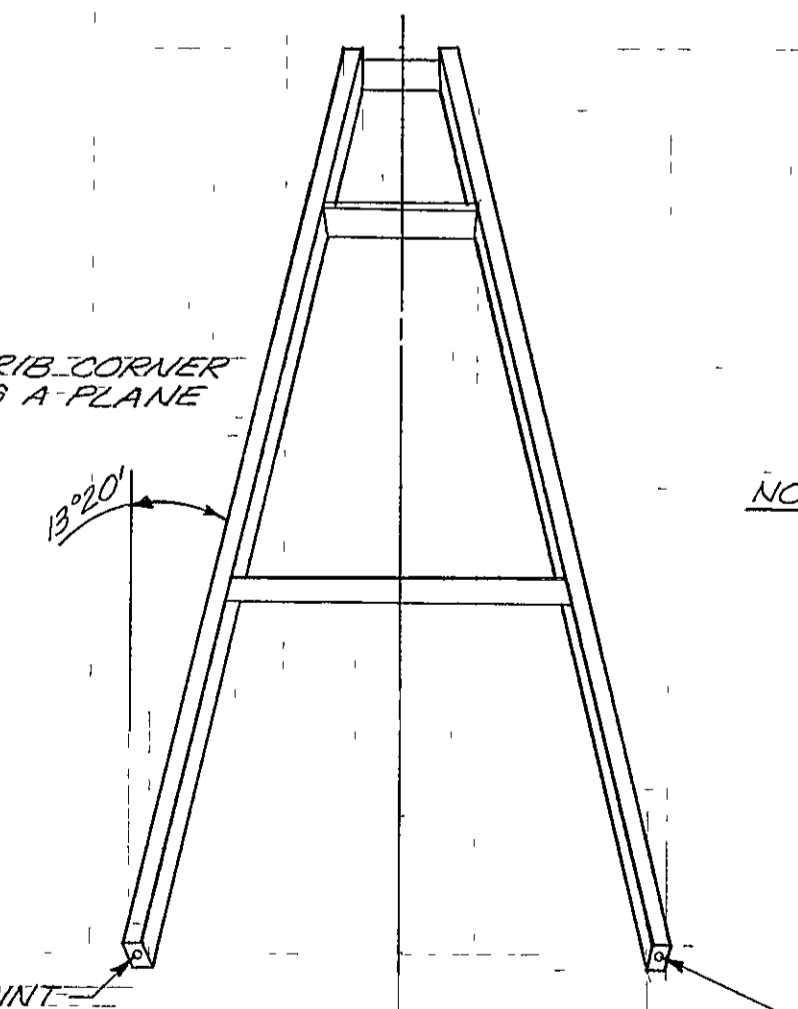
ARCH BASE PLATE
SCALE 1/2"=1'-0"



RIB FIELD SPLICE
SCALE 3/4"=1'-0"



SECTION G-G
SCALE 3/4"=1'-0"



ARCH END ELEVATION
SCALE 1"=10'

- NOTES**
- 1 ALL ARCH STEEL A-36
 - 2 SECTIONS A, B, C ARE VERTICAL PLANES CUT THRU THE RIB PERPENDICULAR TO THE OVERPASS CENTERLINE
 - 3 SHOP JOINTS IN ARCH RIB WILL BE ALLOWED TO FACILITATE INTERIOR WELDING OF STIFFENERS
 - 4 ALL PLATE JOINTS SHALL BE WELDED CONTINUOUSLY COMPLETE PENETRATION IN ACCORDANCE WITH AWS SPEC'S GRIND SMOOTH ALL WELDS

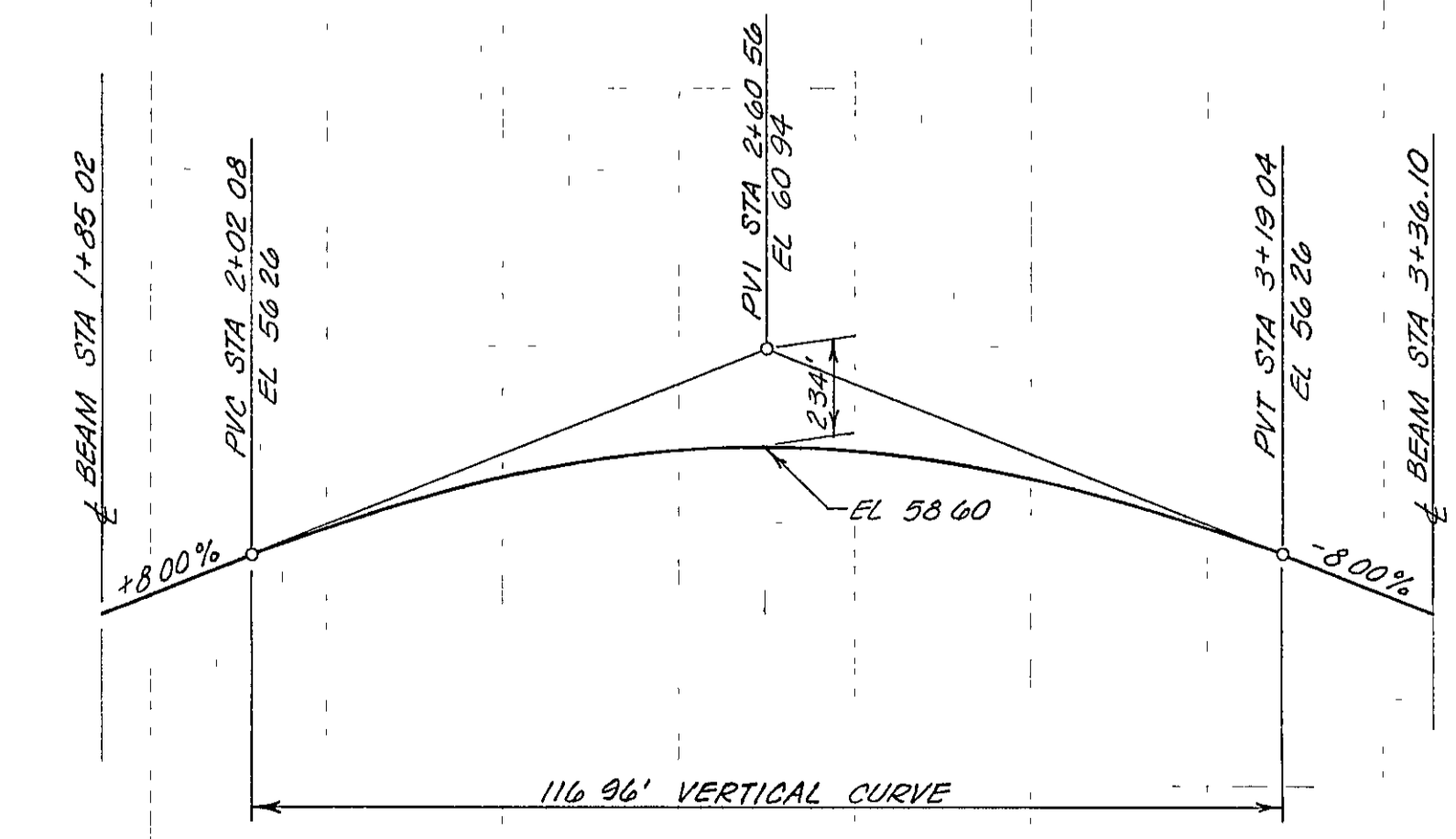
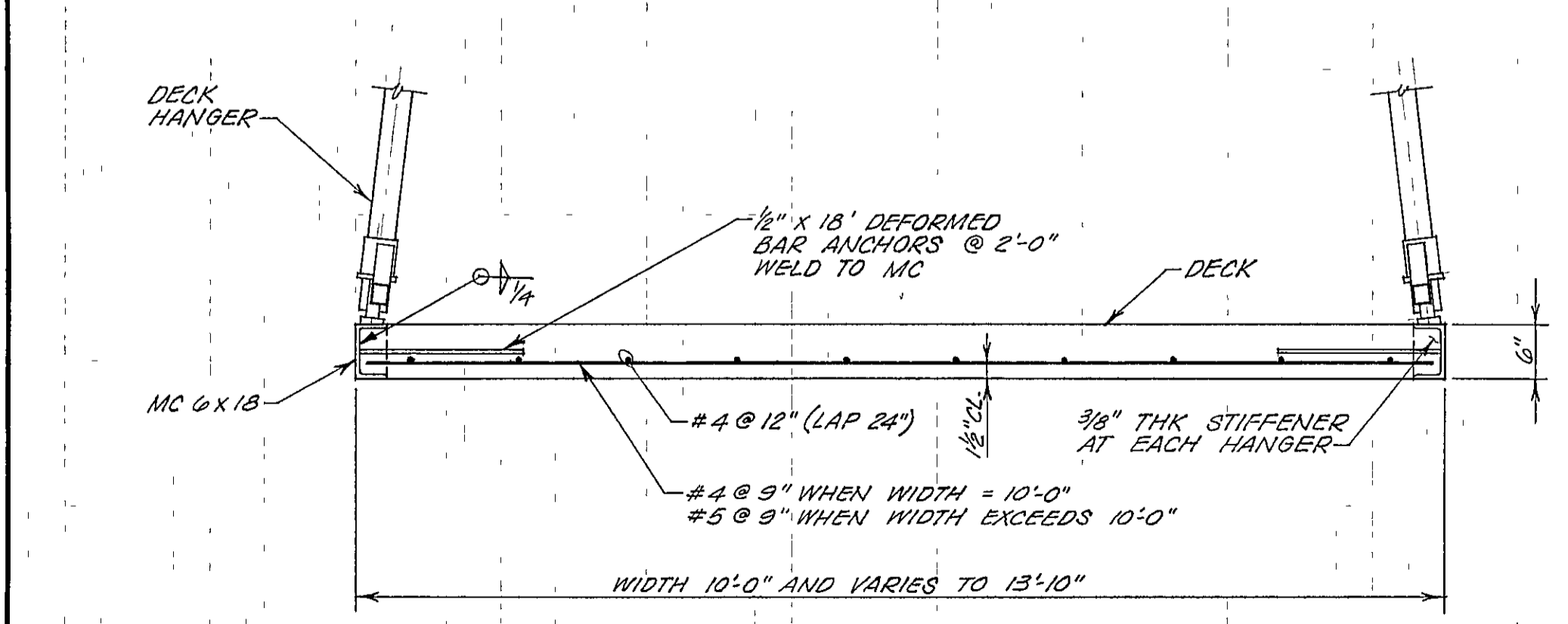
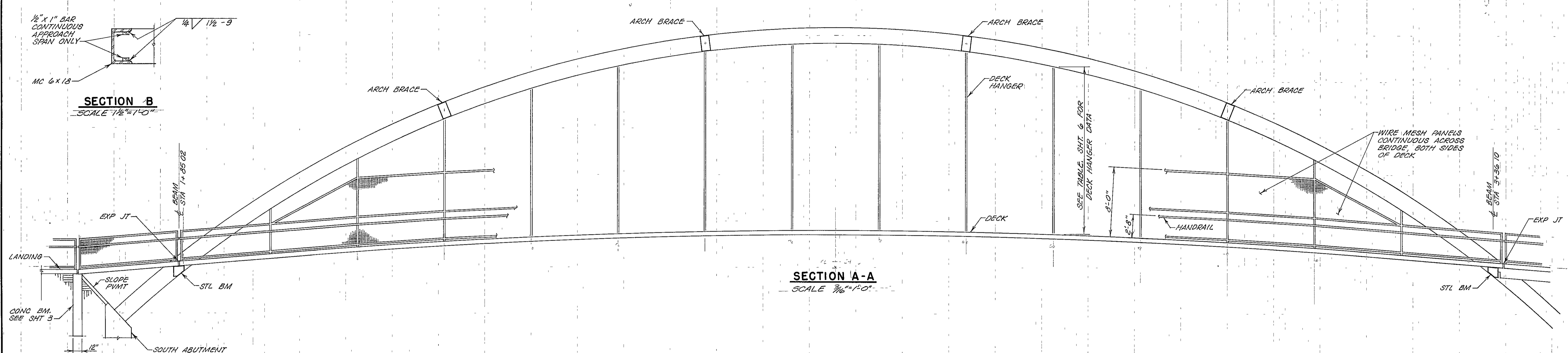
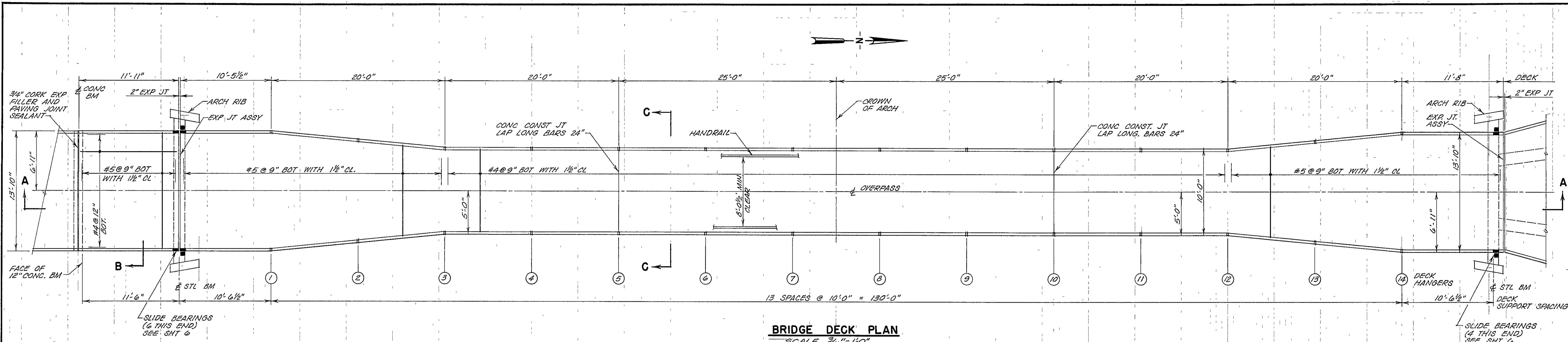
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**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN
STEEL ARCH**

SCALE AS SHOWN DATE MAY 1976

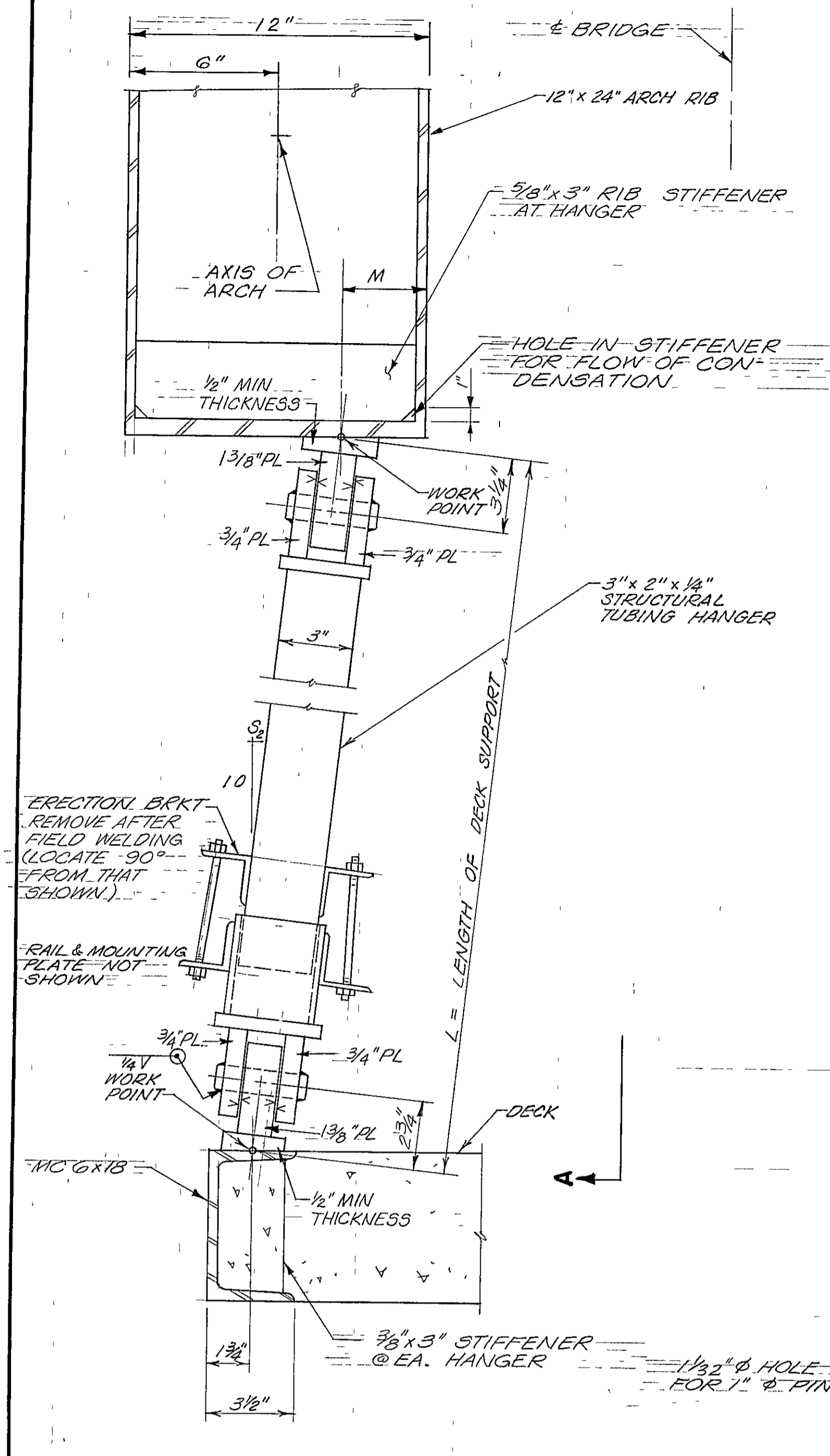
DES BY DJQ
DWN BY RCL
CHK BY RHH
APP BY

DRAWING NO
243-9

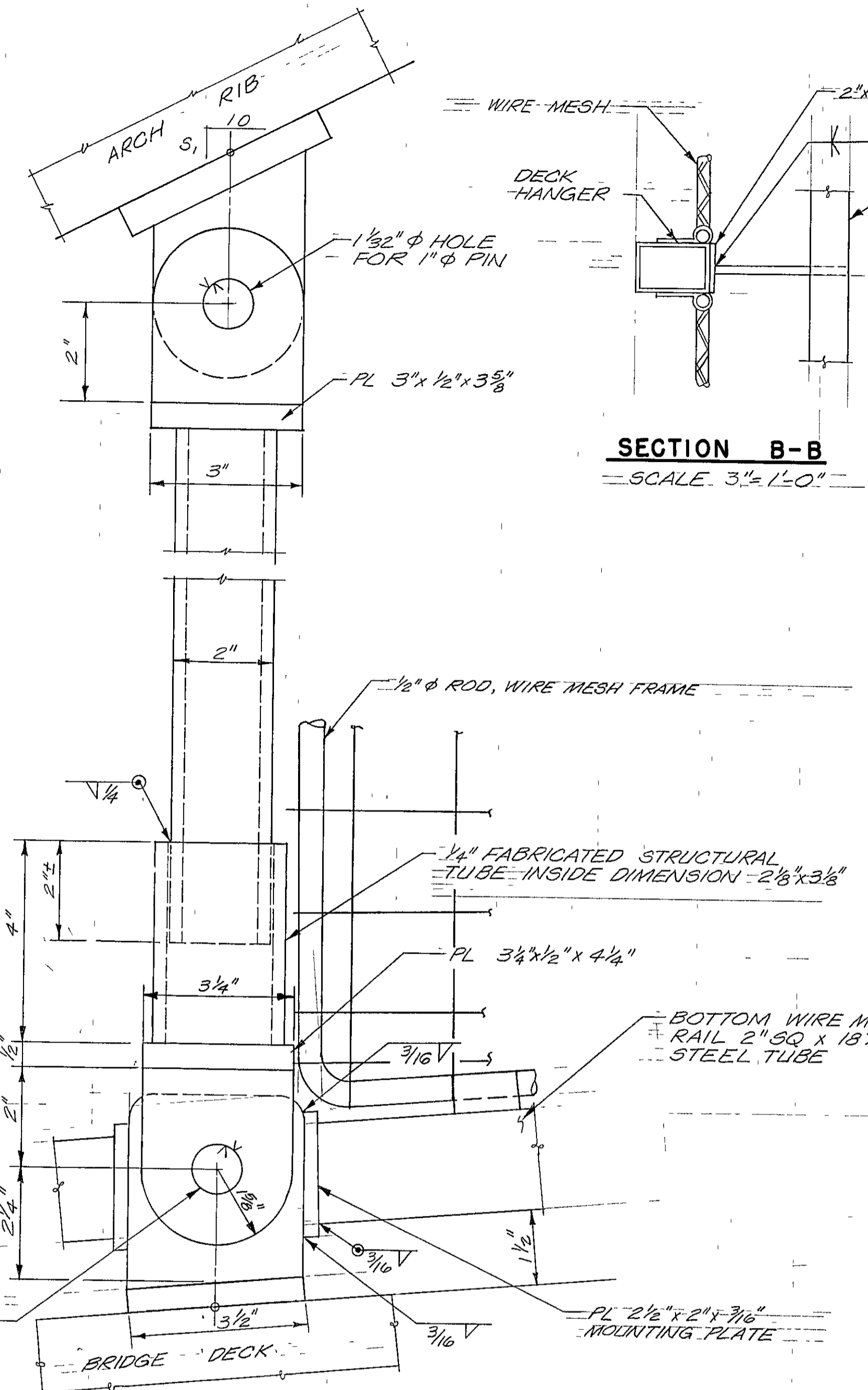


- NOTES**
- FOR TOP OF DECK ELEVATIONS, SEE SHT 6 DECK HANGER DATA.
 - THE DECK SHALL BE POURED IN THREE POURS THE TWO END POURS SHALL BE MADE SIMULTANEOUSLY.

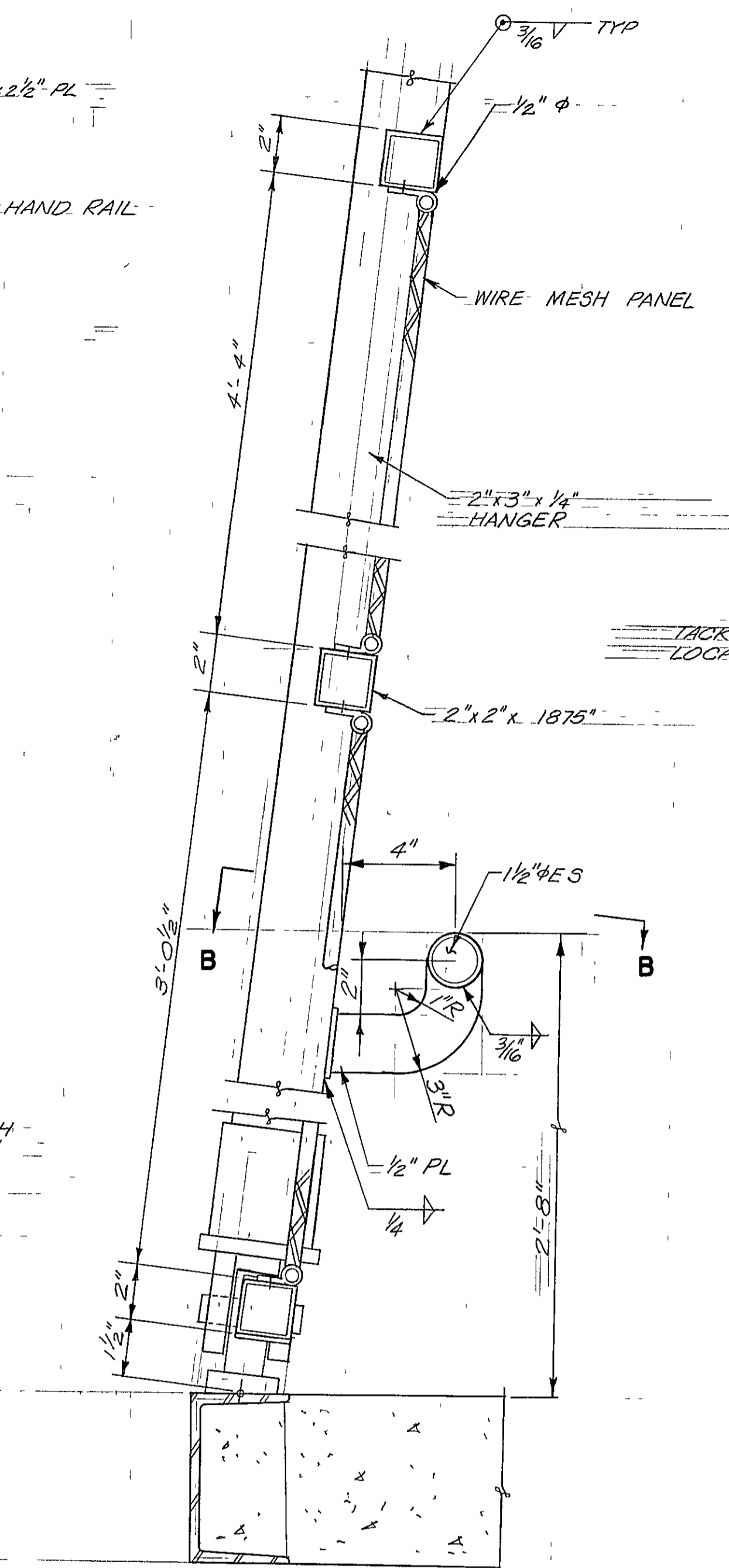
 STRAND ASSOCIATES INC CONSULTING ENGINEERS 910 West Wingra Drive Madison, Wisconsin 53715 Tel. (608) 251-4843	CAMPUS DR. PEDESTRIAN OVERPASS MADISON, WISCONSIN BRIDGE DECK	
	SCALE AS SHOWN	DATE MAY 1976
	DES BY DJQ	DRAWING NO
	DWN BY RCL	243-10
CHK BY RHH		
APP BY		



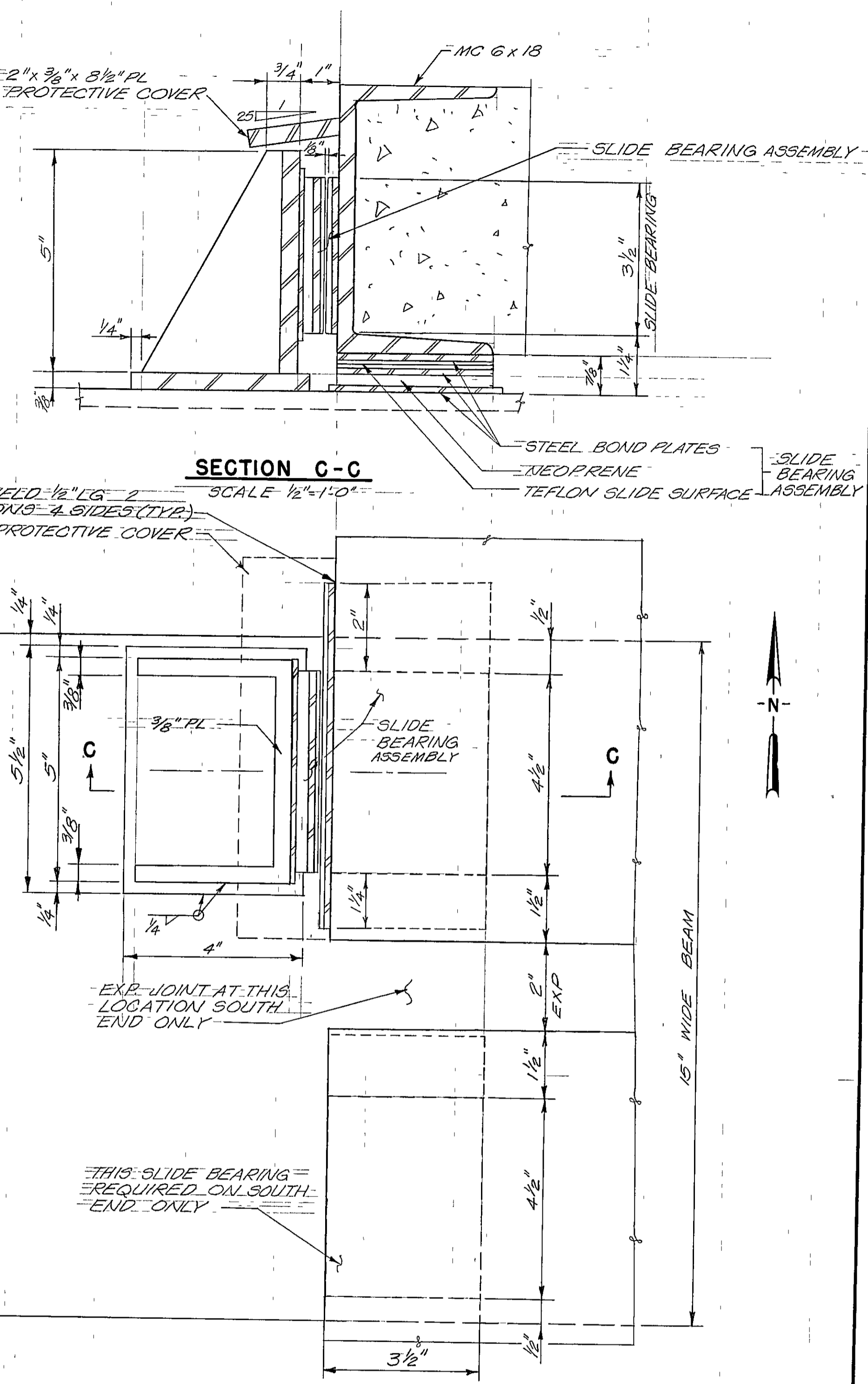
DECK HANGER
SCALE 3"=1'-0"
NOTE - WELD ALL HANGER PIECES WITH MIN. 1/4" FILLET ALL AROUND.



DECK HANGER ELEVATION A
SCALE 6"=1'-0"



BRIDGE RAIL & WIRE MESH
SCALE 3"=1'-0"

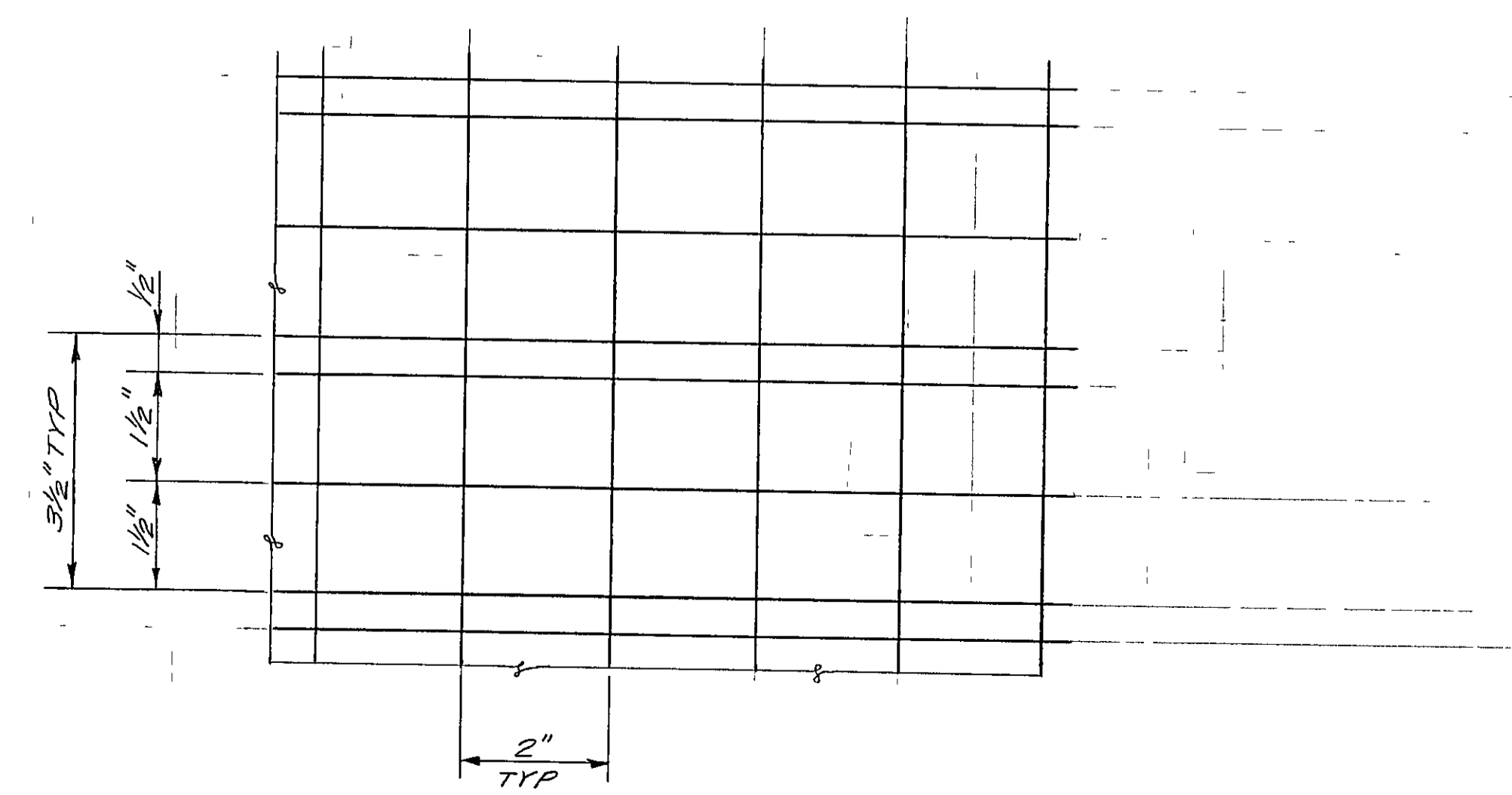


SLIDE BEARING PLAN
SCALE 1/2"=1'-0"
NOTE - TEN SLIDE BEARINGS REQ'D. SEE BRIDGE DECK PLAN ON SHEET 5 FOR LOCATIONS.

DECK HANGER DATA

HANGER	L	S ₁	S ₂	M	EL. TOP OF DECK
1 & 14	5'-1 1/4"	0.64"	0.000"	3 5/8"	55.74
2 & 13	10'-1"	0.51"	0.019"	6"	56.53
3 & 12	13'-11 3/4"	0.40"	0.021"	6"	57.22
4 & 11	17'-0"	0.30"	0.066"	6"	57.76
5 & 10	19'-2 5/8"	0.21"	0.091"	6"	58.17
6 & 9	20'-8"	0.13"	0.104"	6"	58.44
7 & 8	21'-4 5/8"	0.04"	0.110"	6"	58.58

NOTE - ERECT DECK STEEL TO ELEVATIONS SHOWN FOR TOP OF DECK.



WIRE MESH
SCALE 6"=1'-0"

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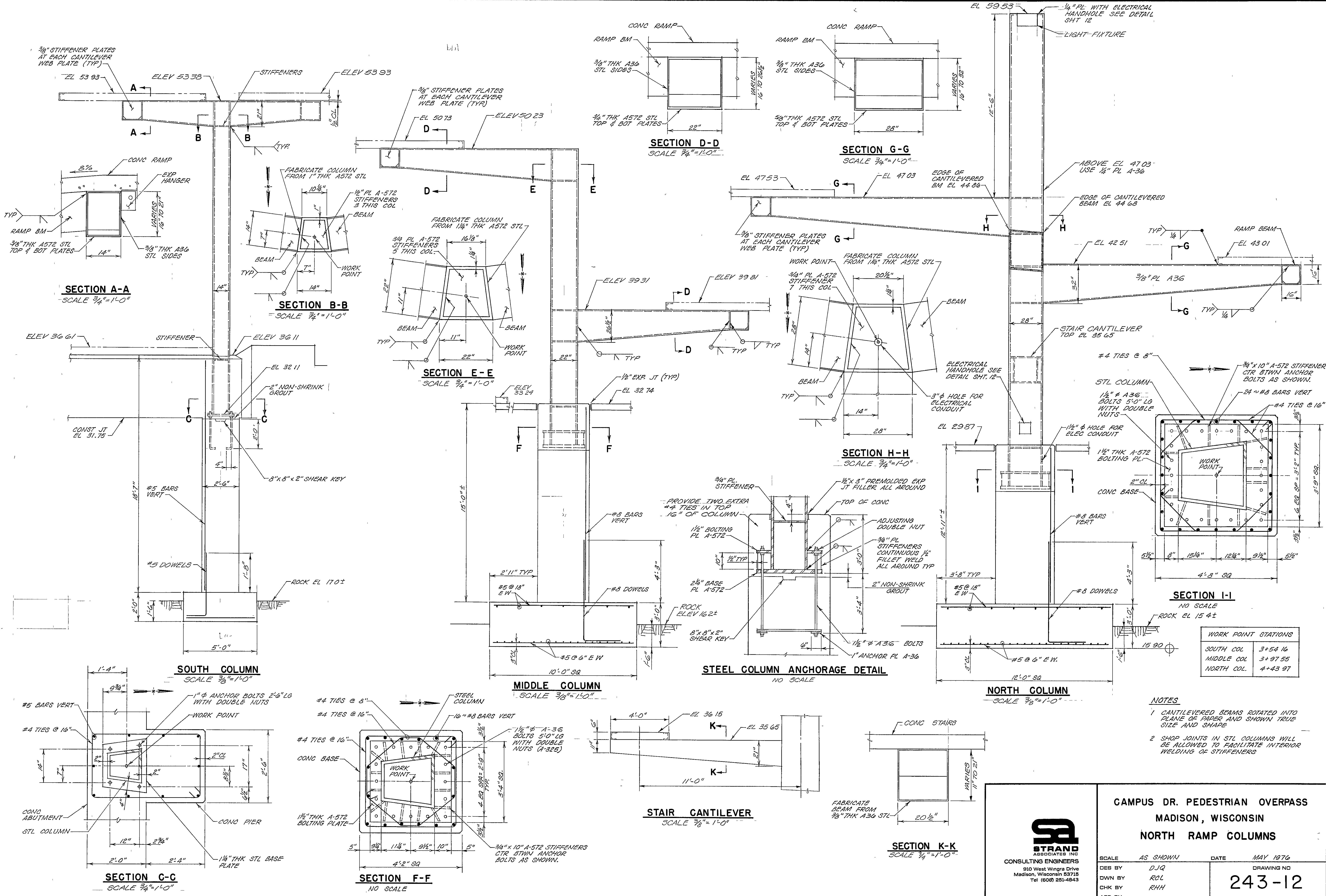
**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN**

DECK SUPPORTS & DETAILS

SCALE AS SHOWN DATE MAY 1976

DES BY DJQ DRAWING NO.
DWN BY JEM
CHK BY RHH
APP BY

243-11



- NOTES**
- CANTILEVERED BEAMS ROTATED INTO PLANE OF PAPER AND SHOWN TRUE SIZE AND SHAPE
 - SHOP JOINTS IN STL COLUMNS WILL BE ALLOWED TO FACILITATE INTERIOR WELDING OF STIFFENERS

WORK POINT STATIONS	
SOUTH COL	3+54.16
MIDDLE COL	3+97.55
NORTH COL	4+43.97

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**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN
NORTH RAMP COLUMNS**

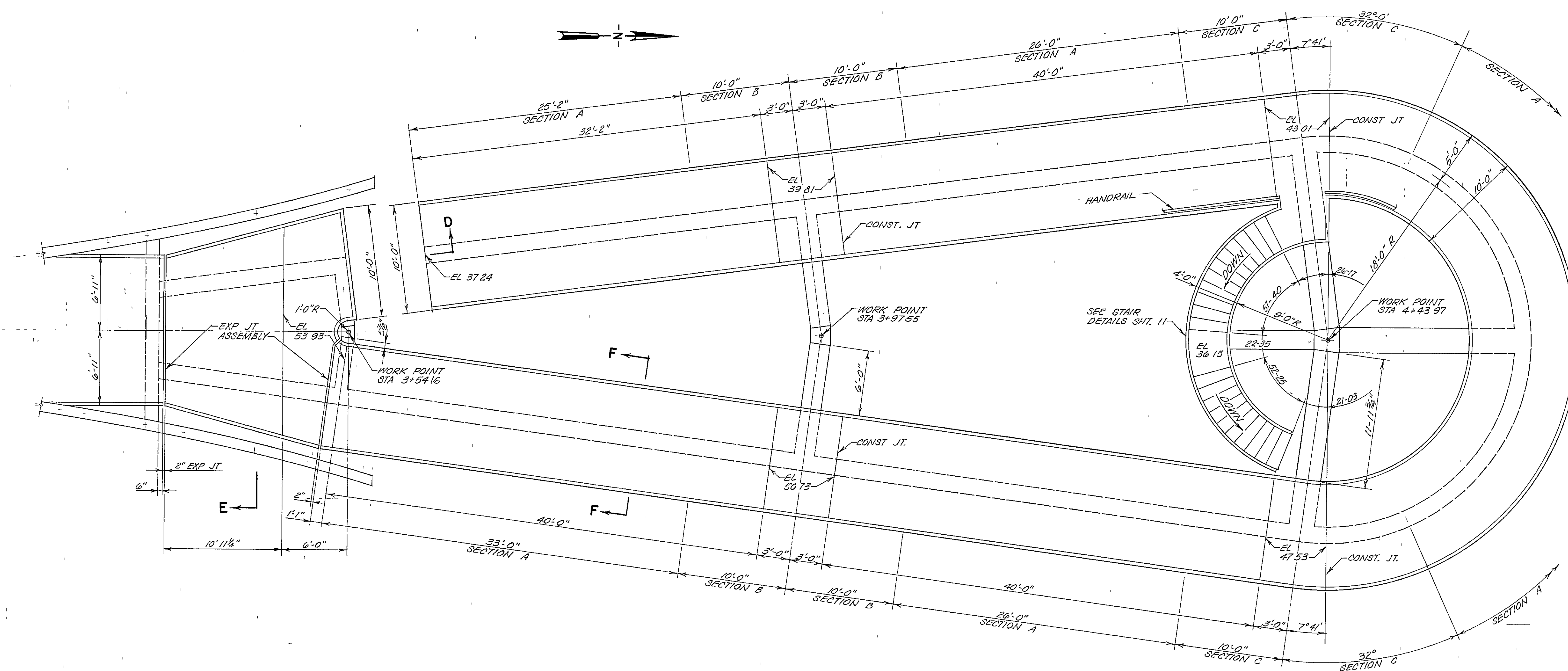
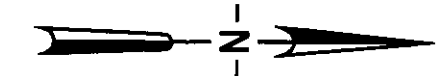
SCALE AS SHOWN DATE MAY 1976

DES BY DJQ DRAWING NO 243-12

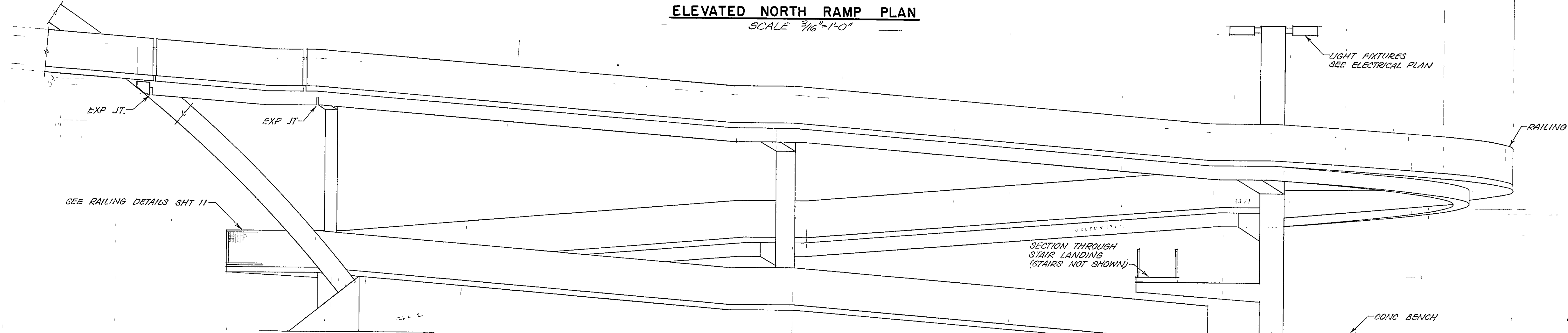
DWN BY ROL

CHK BY RHH

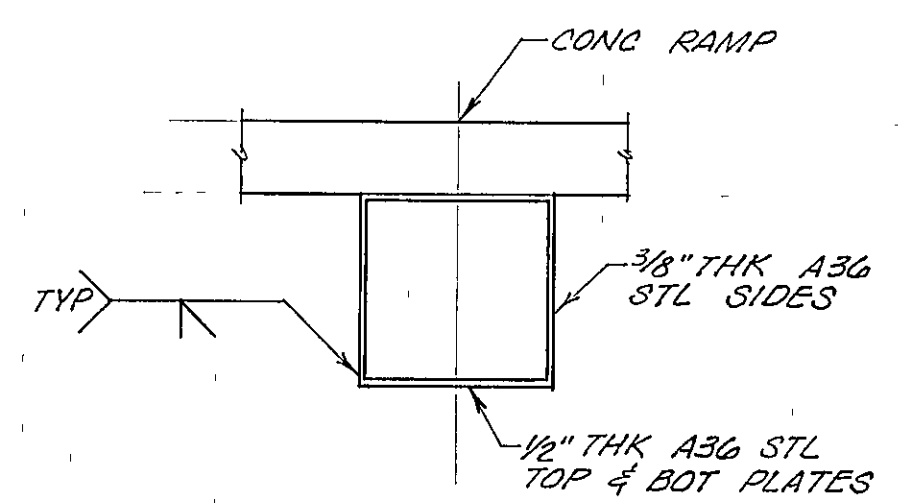
APP BY



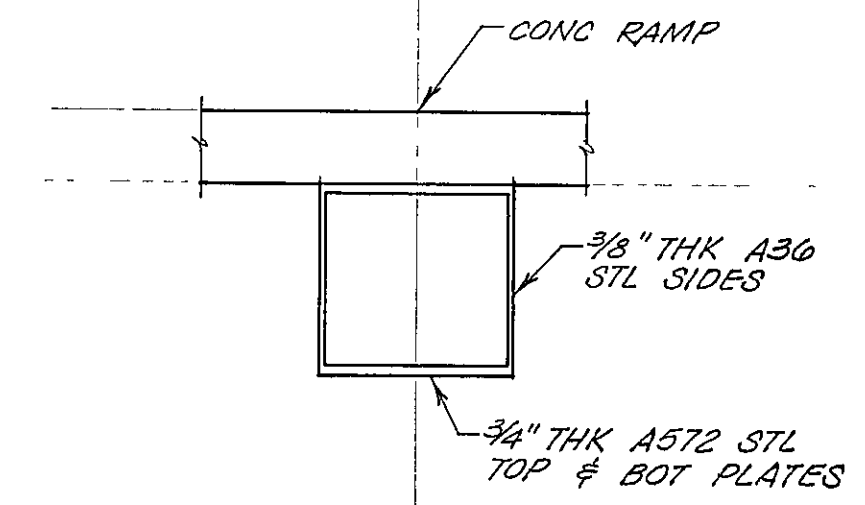
ELEVATED NORTH RAMP PLAN
SCALE 3/16"=1'-0"



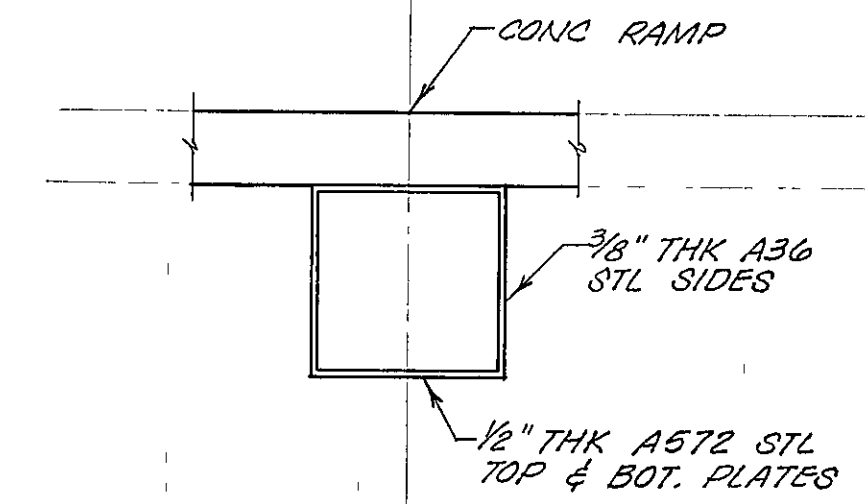
NORTH RAMP ELEVATION
SCALE 3/16"=1'-0"



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



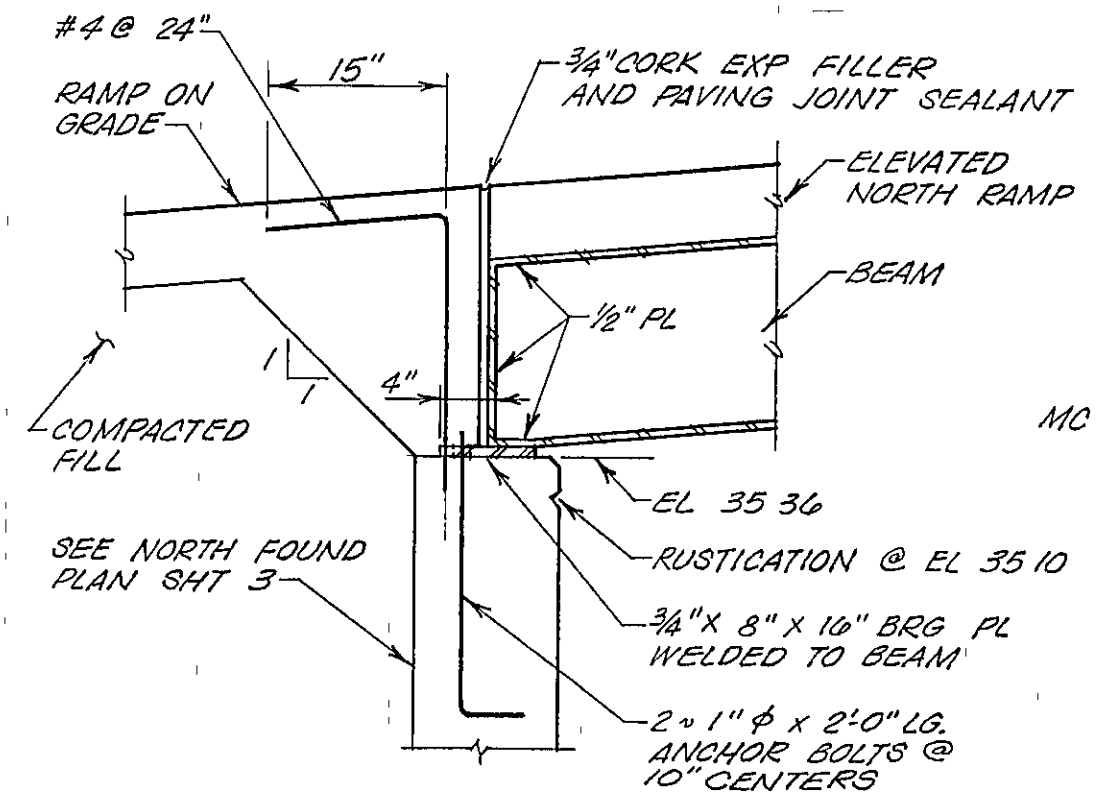
SECTION B
SCALE 3/4"=1'-0"



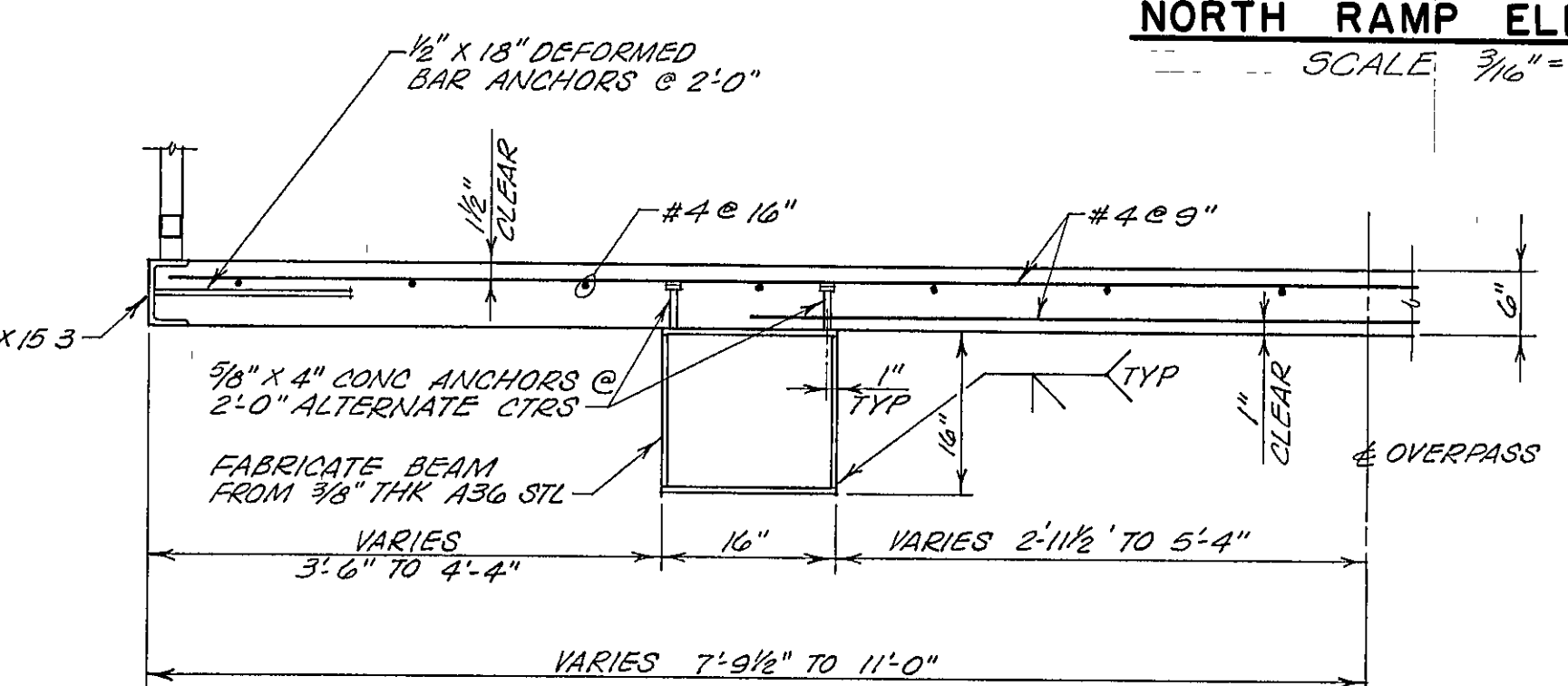
SECTION C
SCALE 3/4"=1'-0"

NOTES

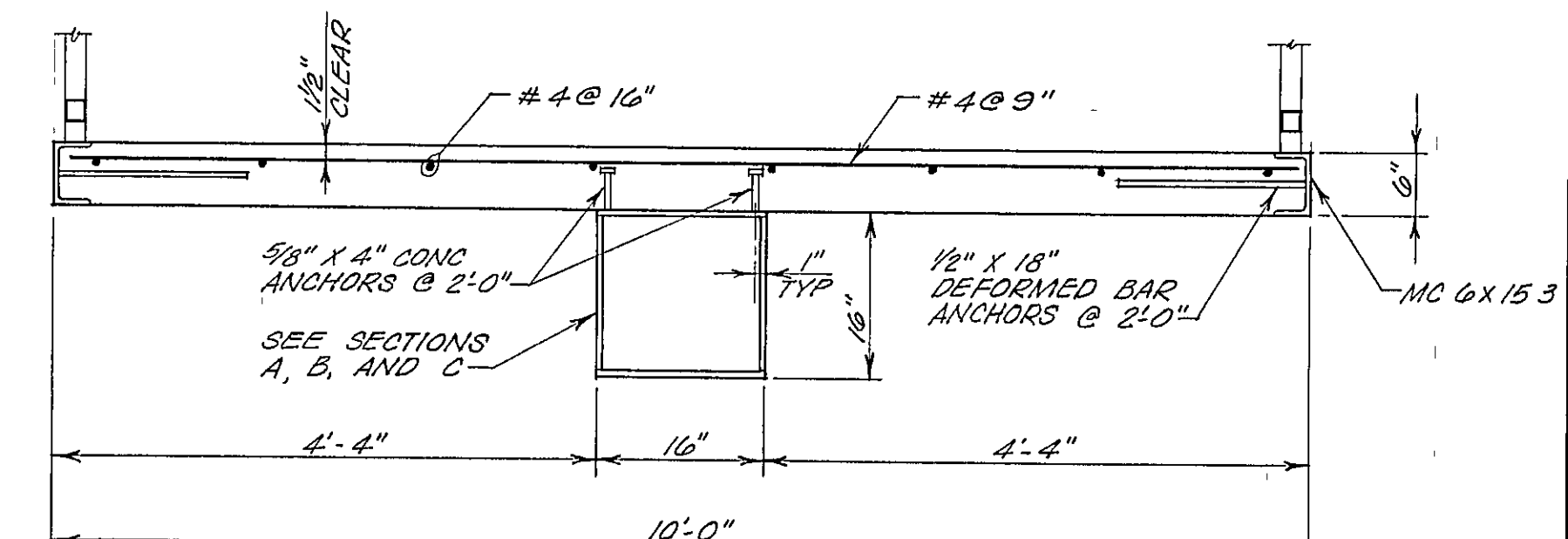
- 1 LAP ALL LONGITUDINAL REINFE 24" AT CONST. JOINTS IN ELEVATED RAMP CONCRETE
- 2 SLOPE OF STEEL RAMP BEAM PARALLELS TOP OF CONCRETE AS SHOWN.



SECTION D
SCALE 3/4"=1'-0"



SECTION E
SCALE 3/4"=1'-0"



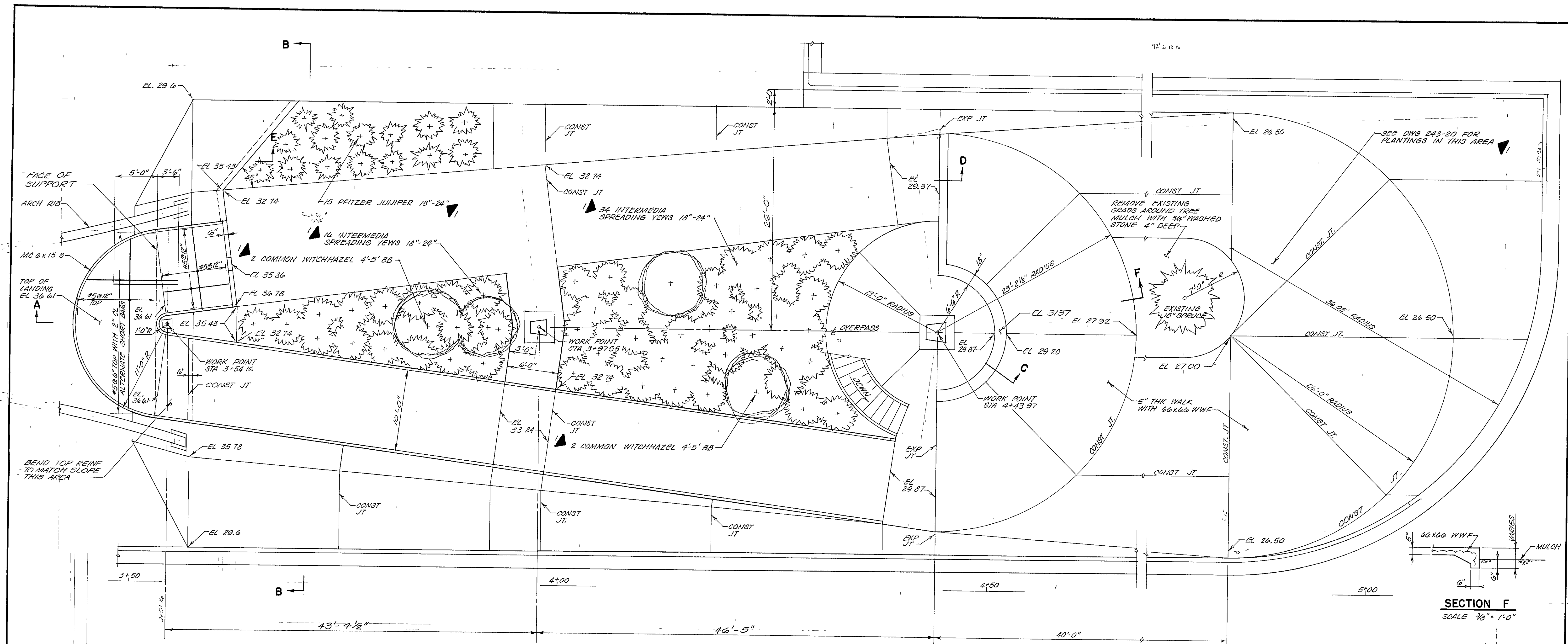
SECTION F-F
SCALE 3/4"=1'-0"

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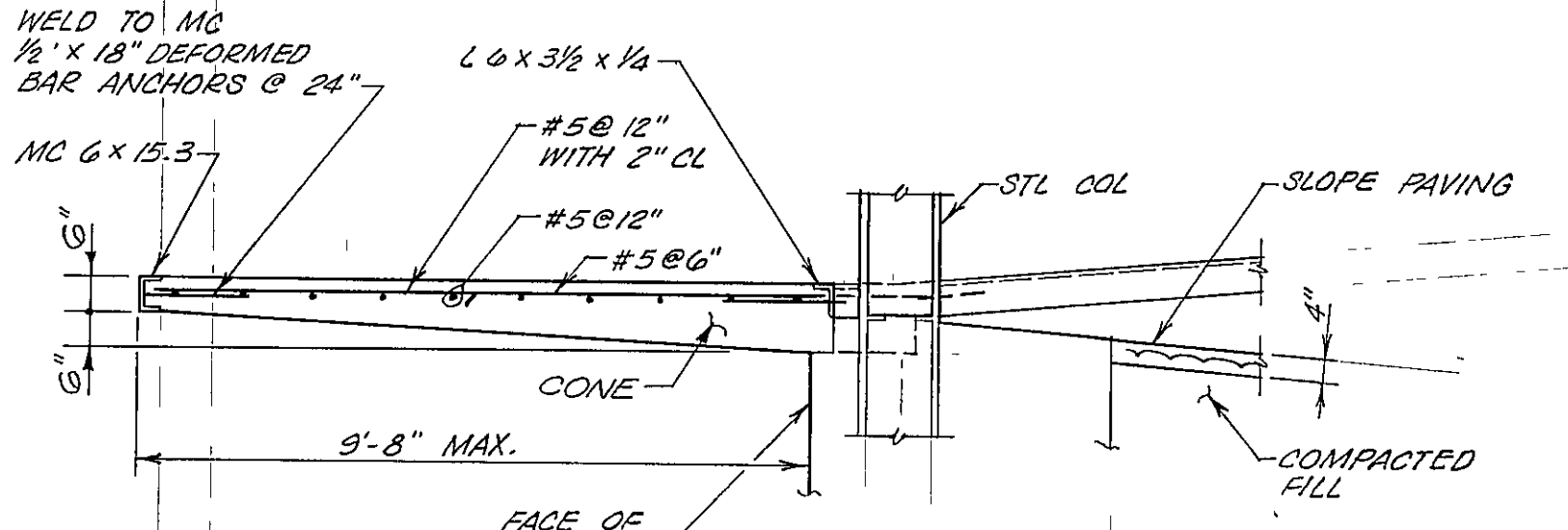
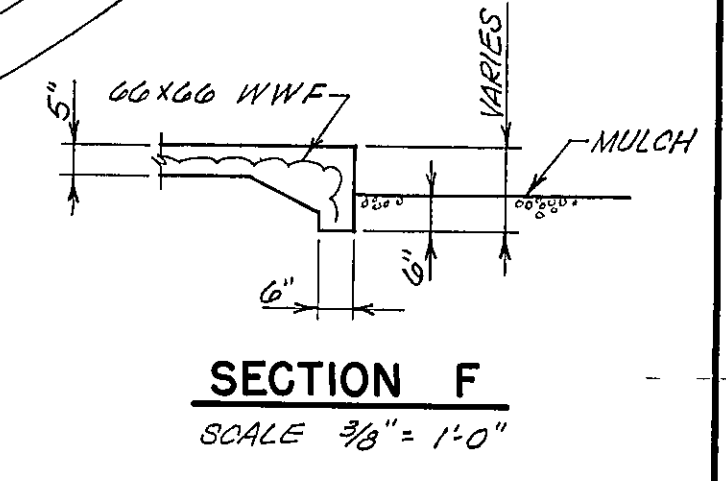
**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN
ELEVATED NORTH RAMP**

SCALE	AS SHOWN	DATE	MAY 1976
DES BY	DJR	DRAWING NO	
DWN BY	ROL		
CHK BY	RHH		
APP BY			

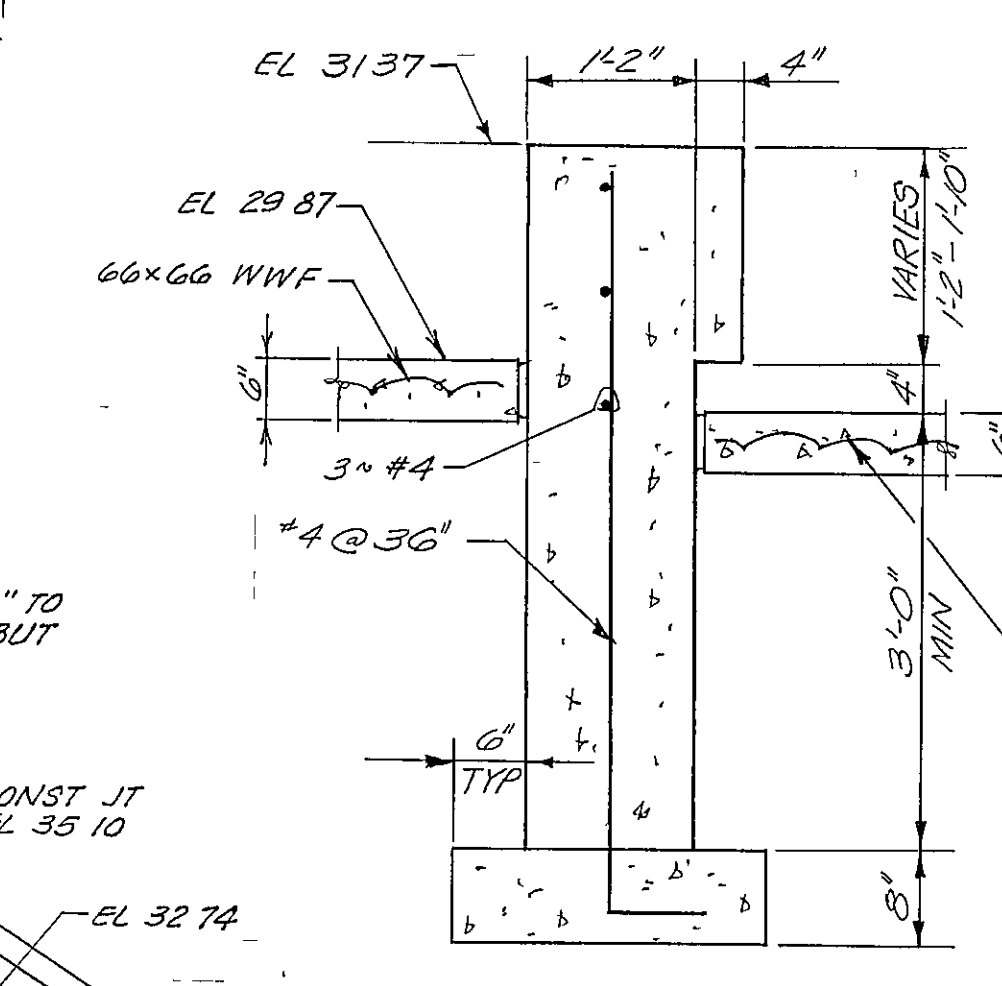
243-13



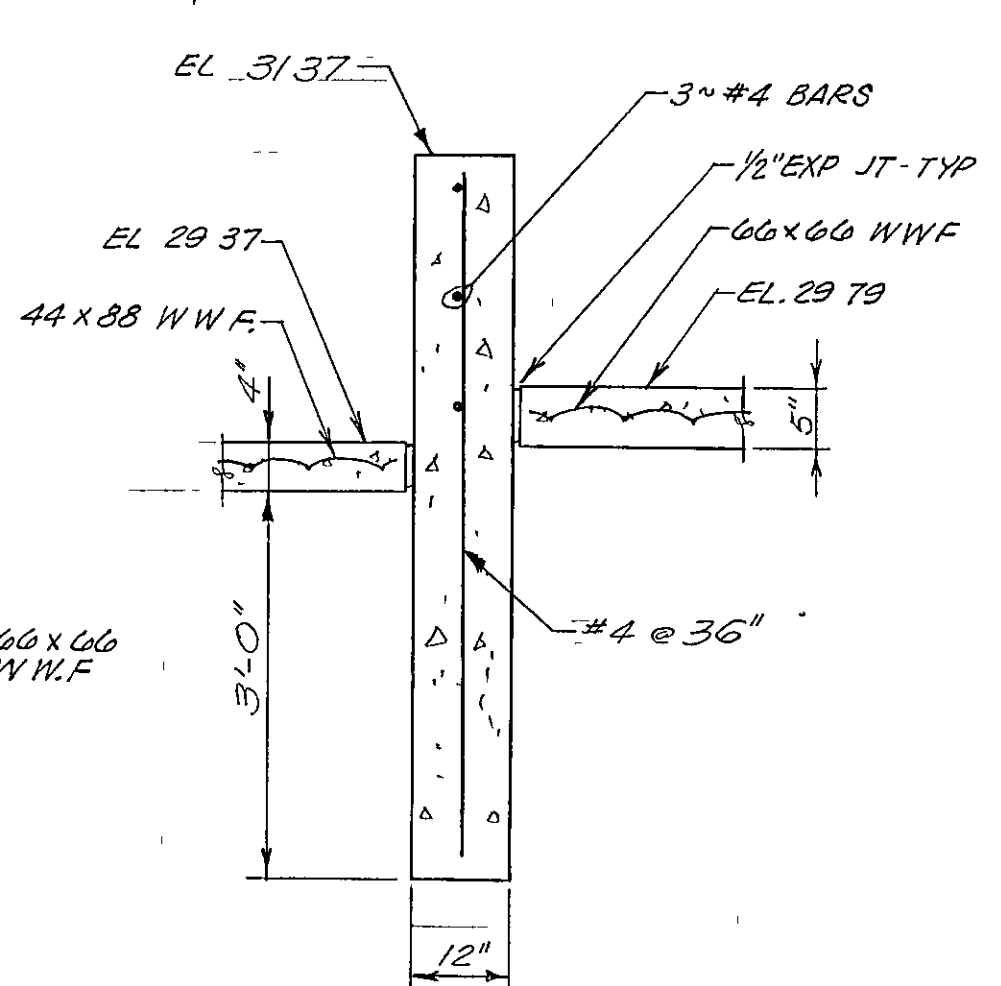
NORTH RAMP ON GRADE PLAN
SCALE 3/16" = 1'-0"



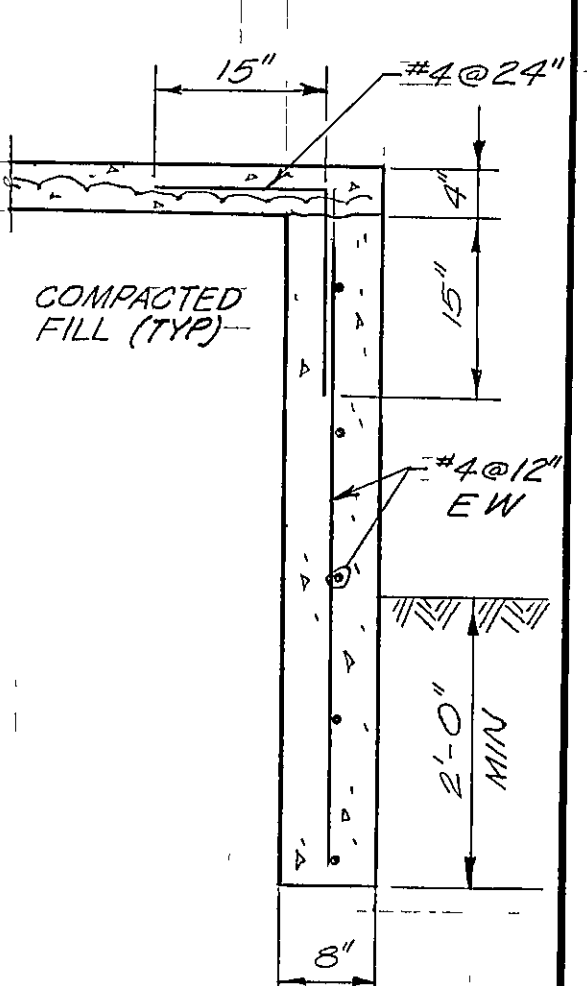
SECTION A
SCALE 3/8" = 1'-0"



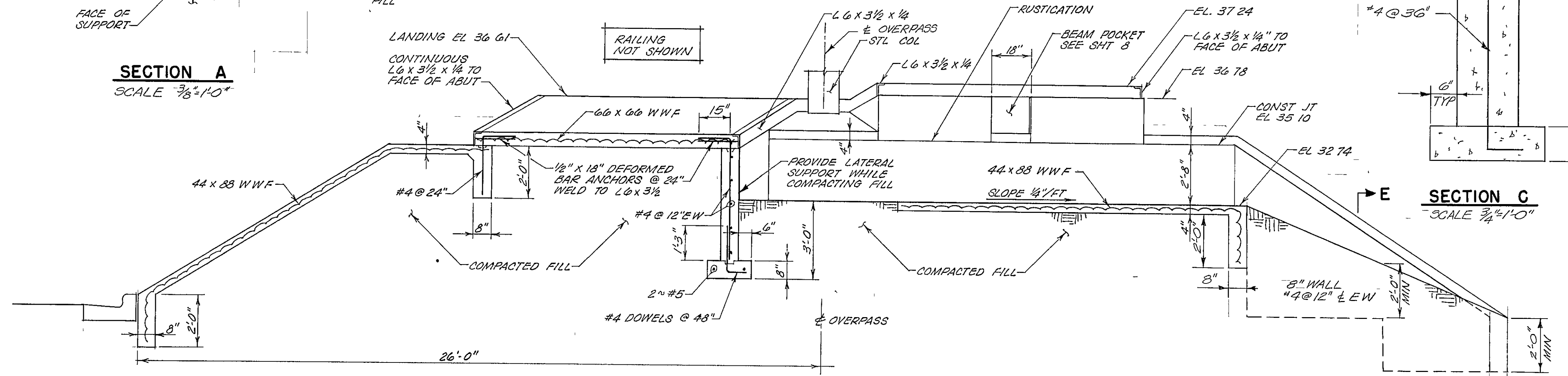
SECTION C
SCALE 3/4" = 1'-0"



SECTION D
SCALE 3/4" = 1'-0"



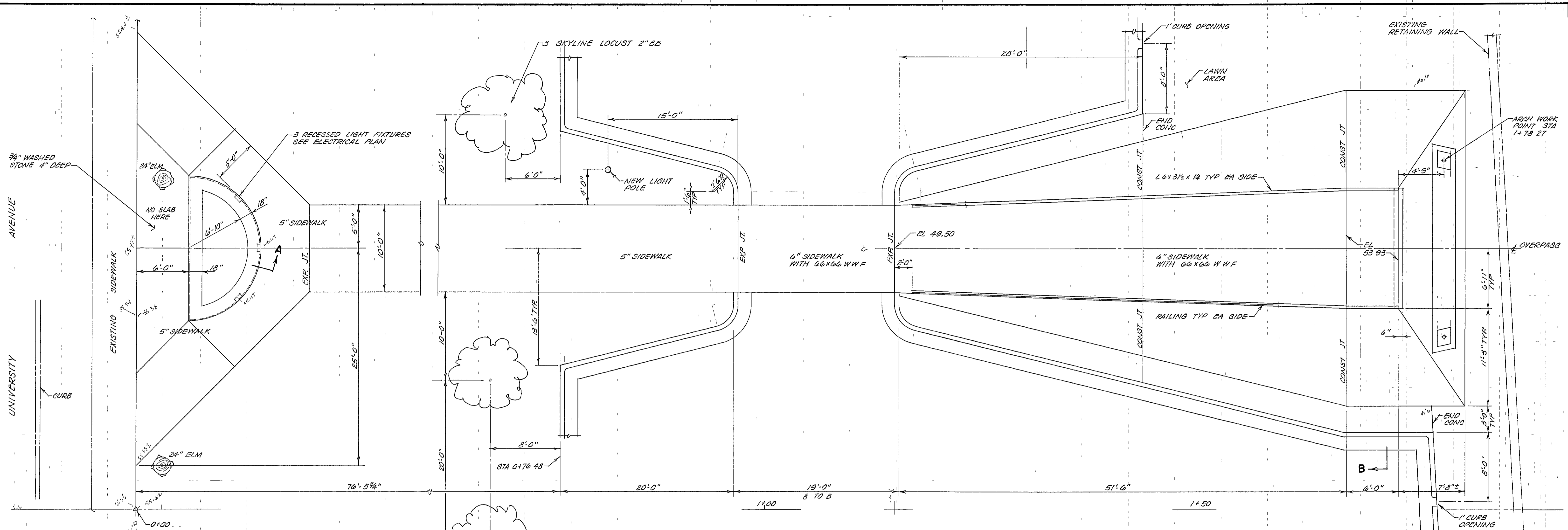
SECTION E
SCALE 3/4" = 1'-0"



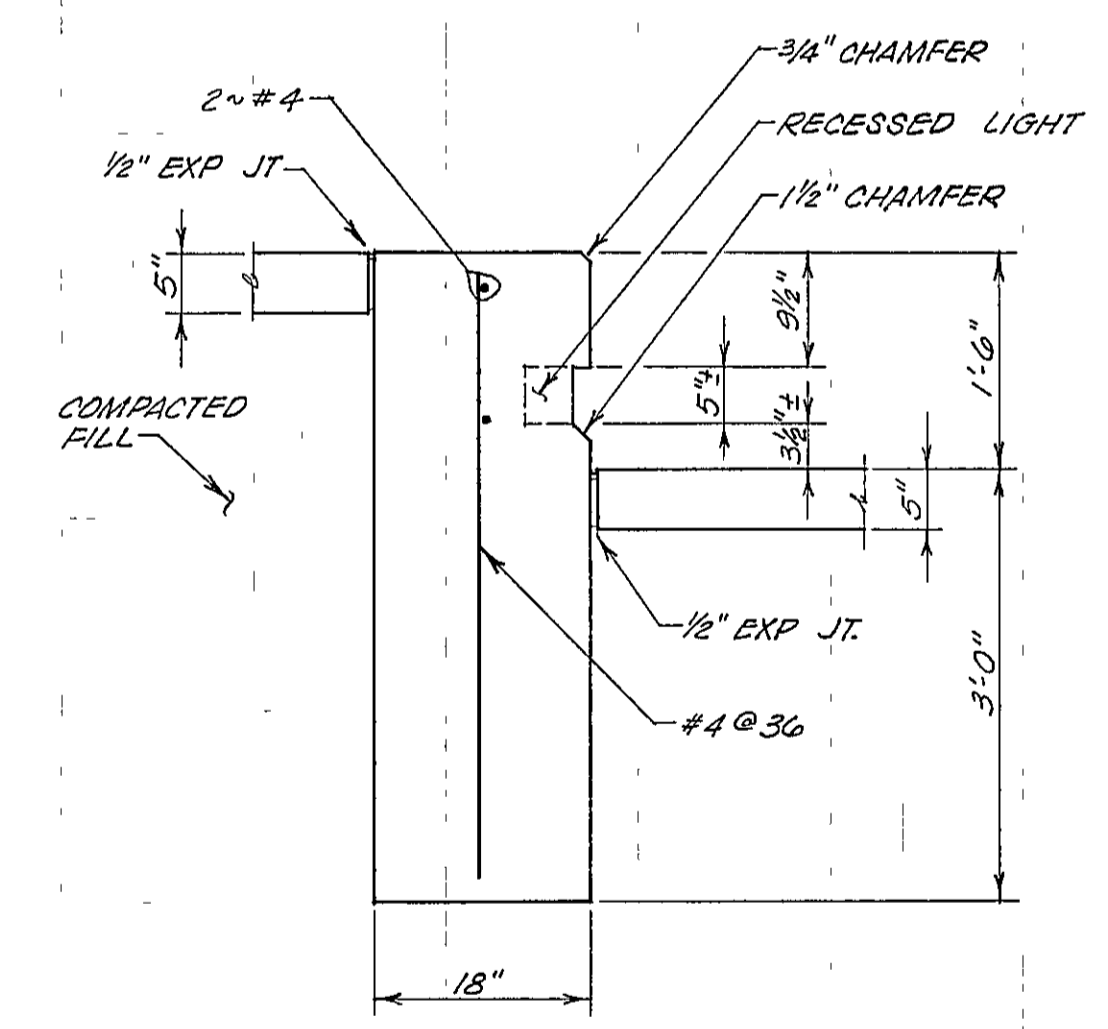
SECTION B-B
SCALE 3/8" = 1'-0"

REVISION 1 PLANTINGS CHANGED BY RCL 4-8-77

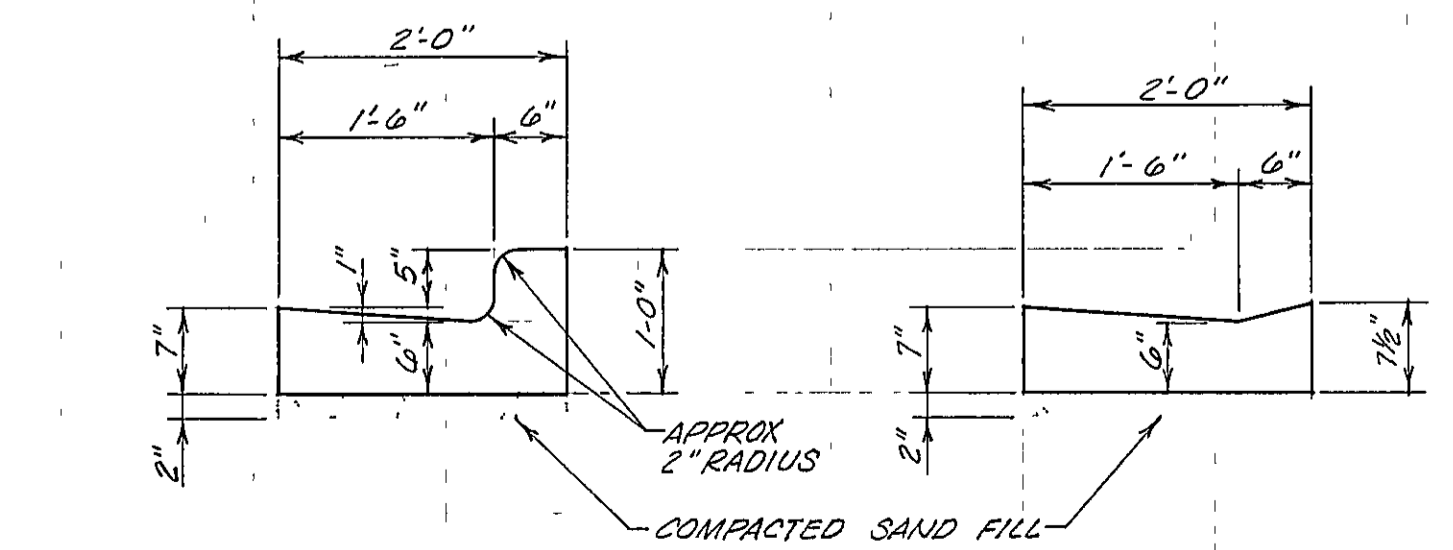
<p>STRAND ASSOCIATES INC CONSULTING ENGINEERS 910 West Wingra Drive Madison, Wisconsin 53715 Tel (608) 281-4843</p>	<p>CAMPUS DR. PEDESTRIAN OVERPASS MADISON, WISCONSIN NORTH RAMP ON GRADE</p>	
	<p>SCALE AS SHOWN</p>	<p>DATE MAY 1976</p>
	<p>DES BY DJQ OWN BY RCL JEM CHK BY RHH APP BY</p>	<p>DRAWING NO 243-14</p>



SOUTH RAMP PLAN
SCALE 3/16" = 1'-0"



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

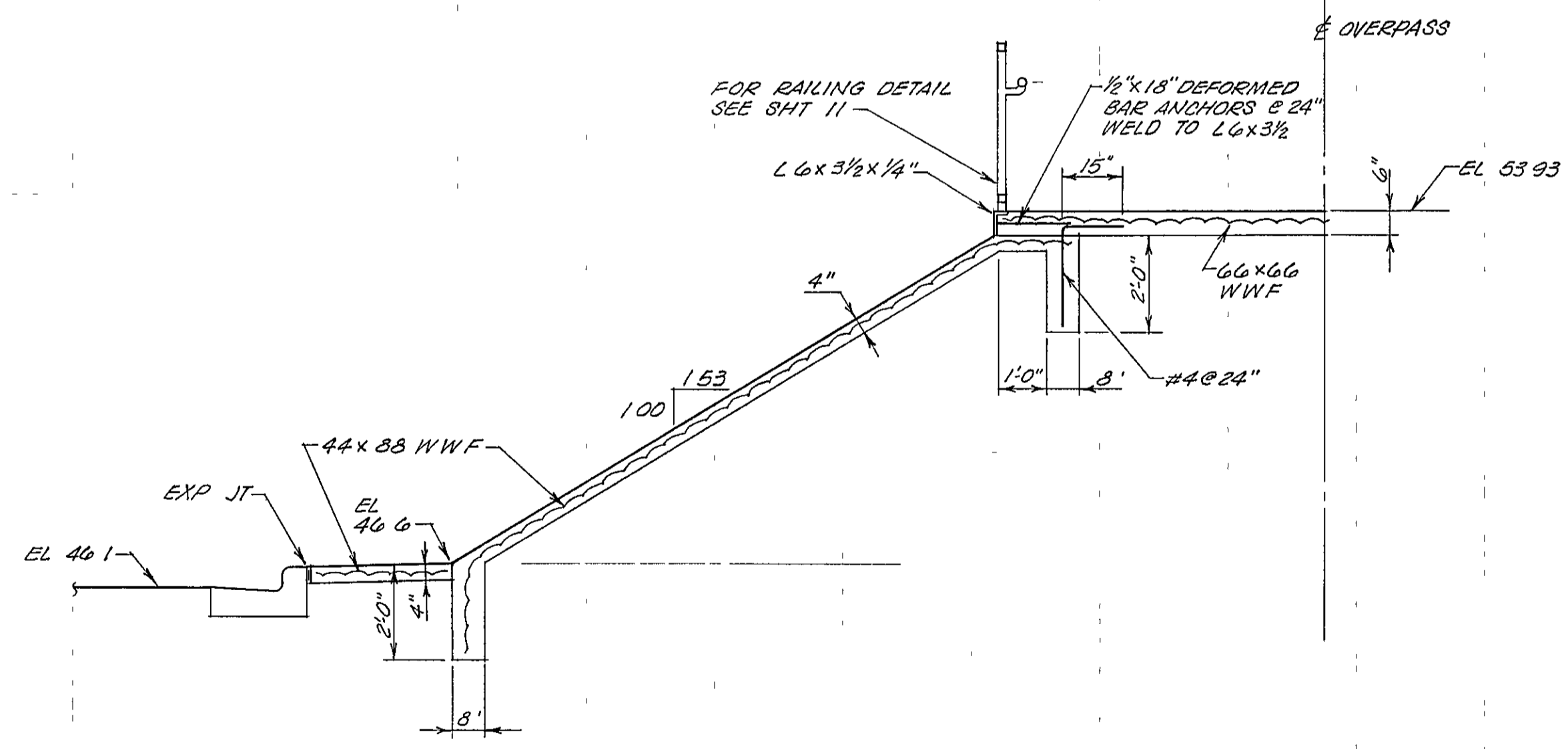


TYPICAL CURB
SCALE 3/4" = 1'-0"

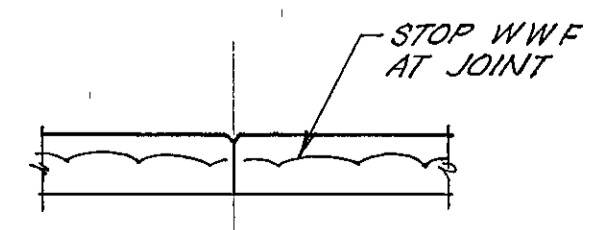
TYPICAL DEPRESSED CURB
SCALE 3/4" = 1'-0"

CURB AND GUTTER NOTES

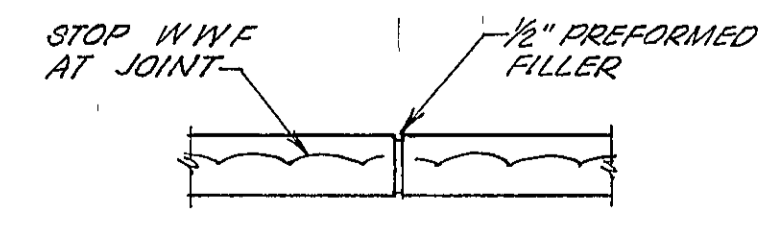
1. LOCATE FULL SECTION EXPANSION JOINT AT EACH RADIUS POINT
2. LOCATE TOOLED CONTRACTION JOINTS AT 15 FT. CENTERS
3. LOCATE EXPANSION JOINT AT BACK OF CURB AND ANY ABUTTING CONCRETE SLAB



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



SLAB CONSTRUCTION JOINT



SLAB EXPANSION JOINT

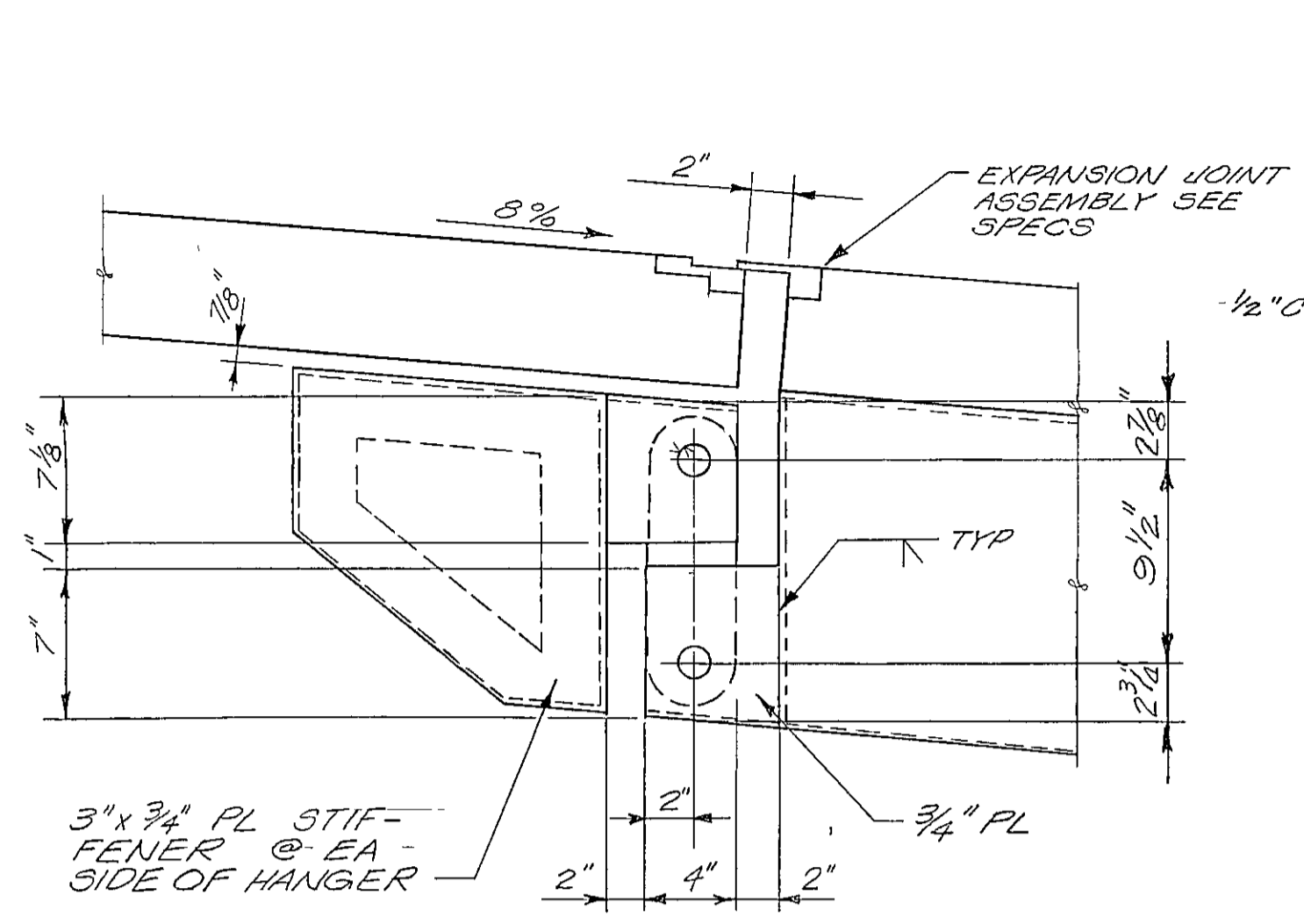
STRAND ASSOCIATES INC.
CONSULTING ENGINEERS
910 West Wingra Drive
Madison, Wisconsin 53715
Tel. (608) 251-4843

**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN
SOUTH RAMP ON GRADE**

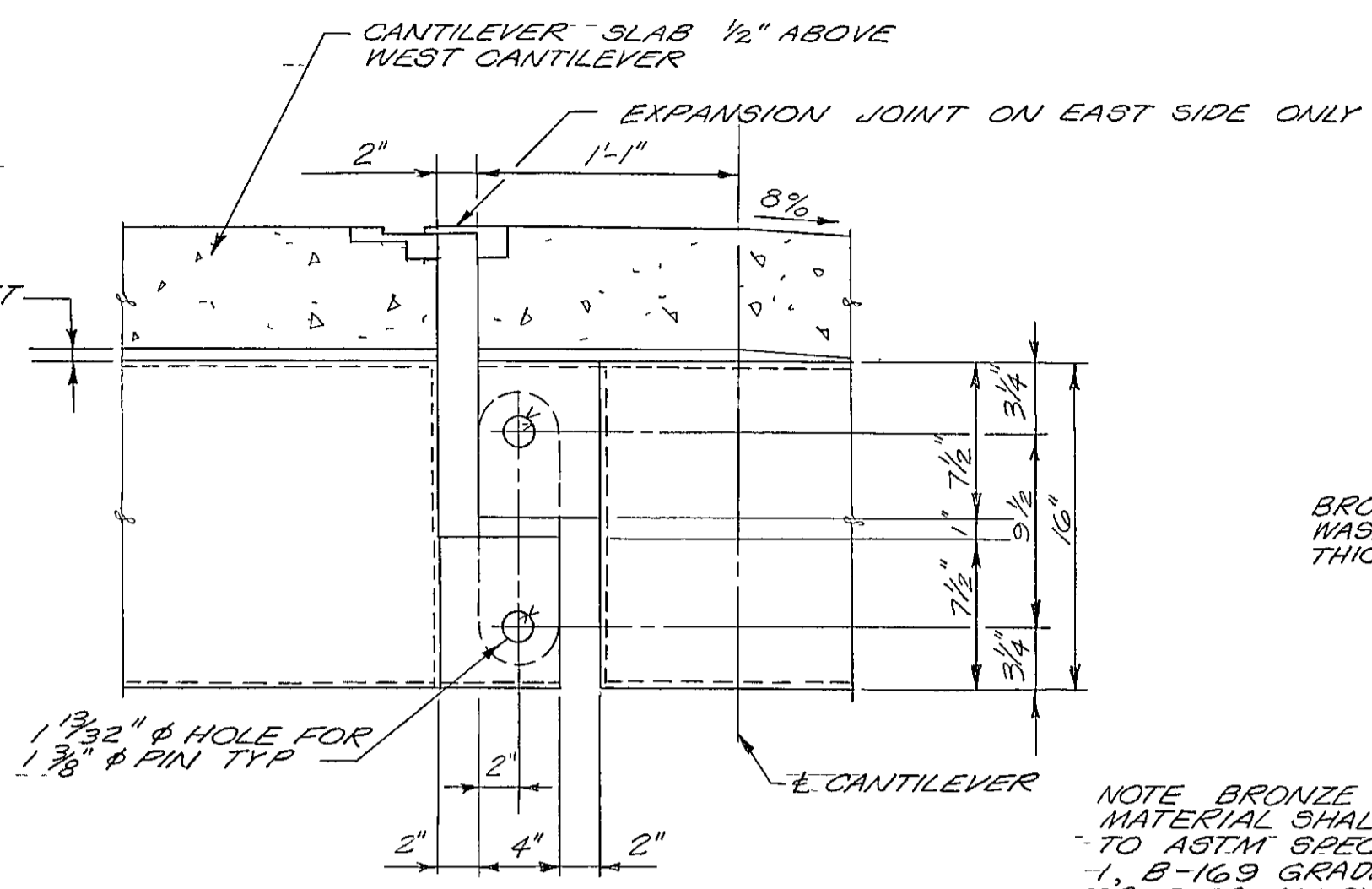
SCALE AS SHOWN DATE MAY 1976

DES BY DJR
DWN BY RCL
CHK BY RHH
APP BY

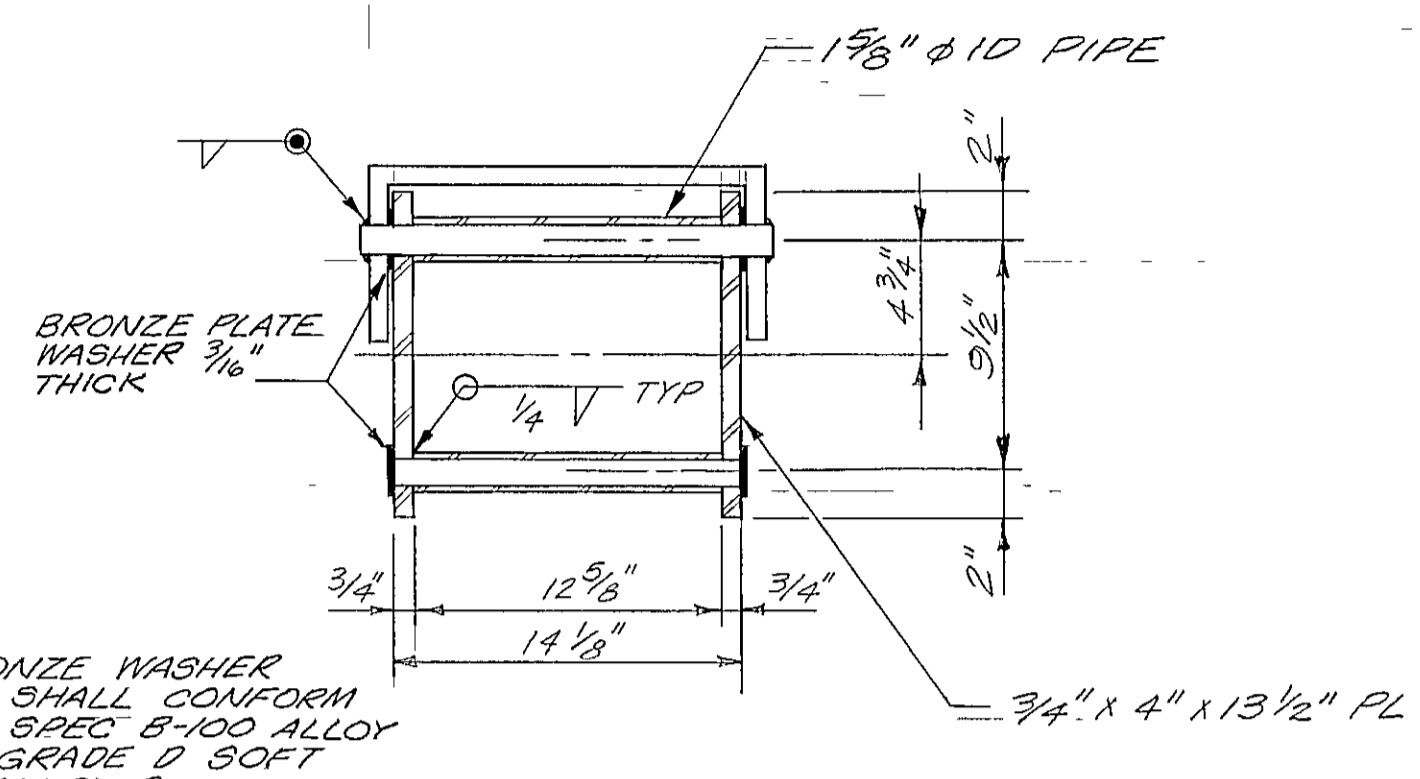
DRAWING NO
243-15



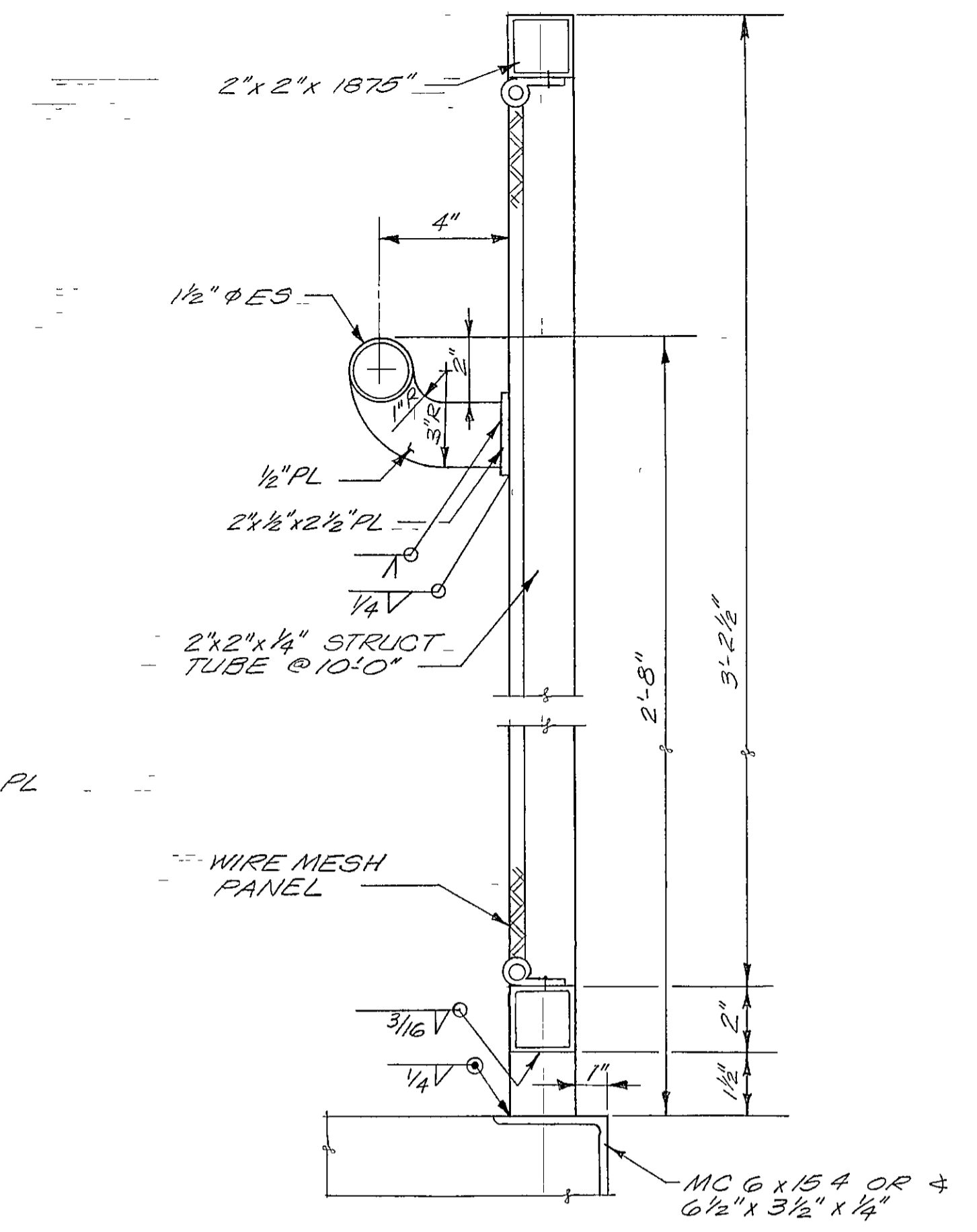
NORTH END OF BRIDGE
SCALE 1 1/2" = 1'-0"



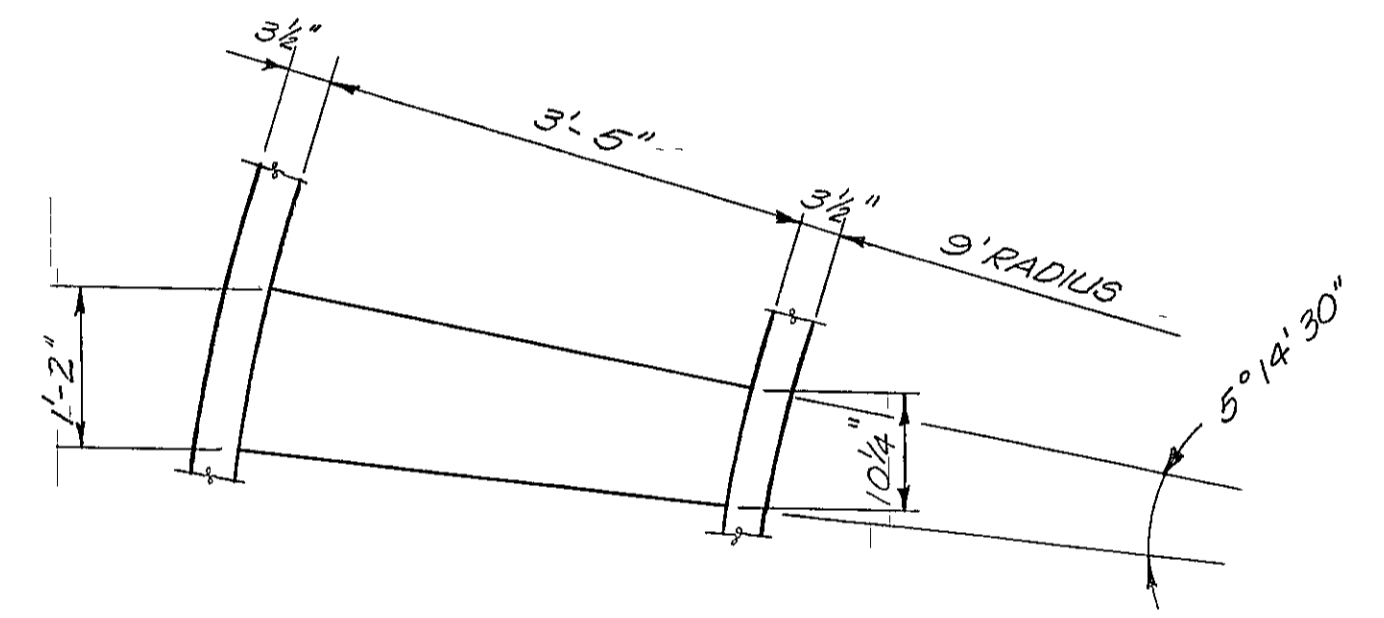
SOUTH END OF NORTH RAMP
SCALE 1 1/2" = 1'-0"



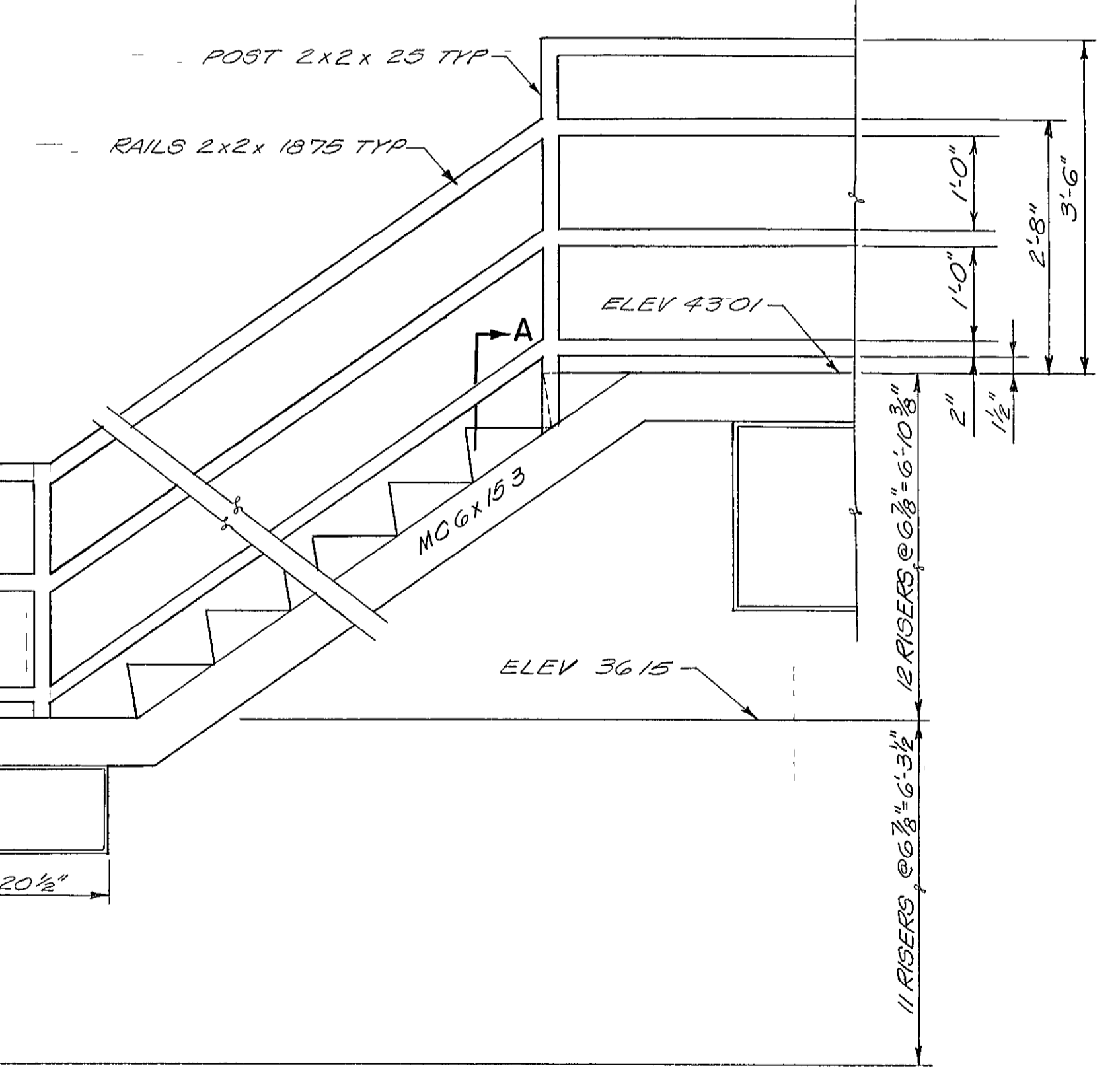
EXPANSION HANGER
SCALE 1 1/2" = 1'-0"



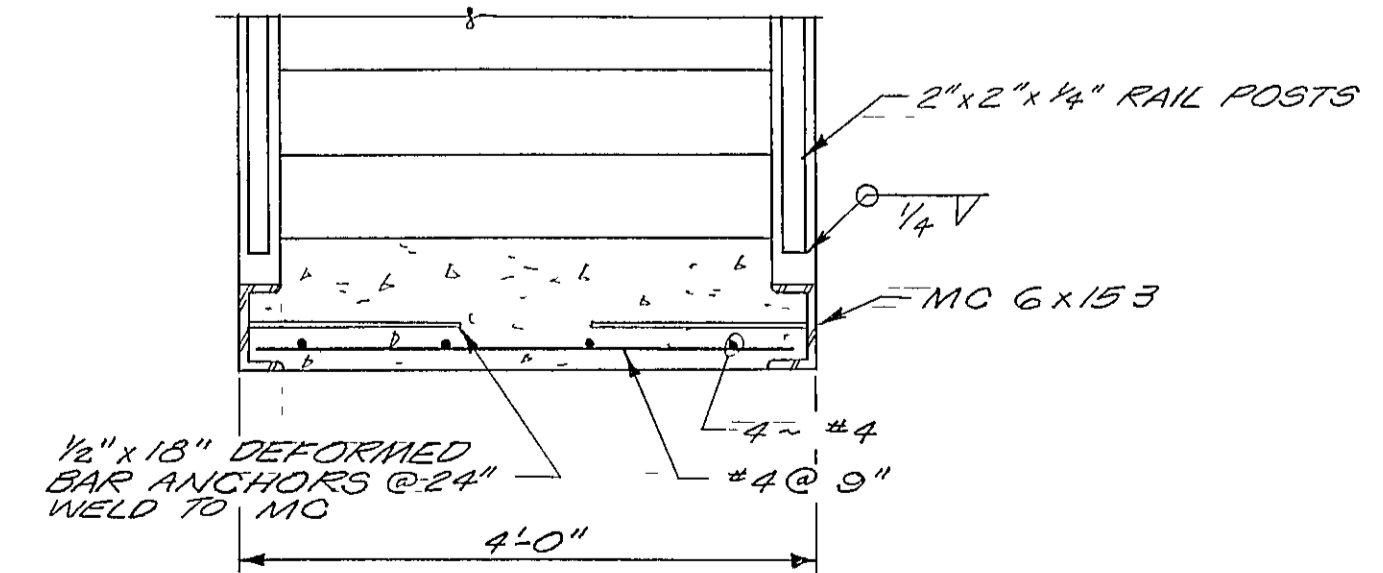
RAMP RAIL & WIRE MESH
SCALE 3" = 1'-0"



STAIR TREAD
SCALE 3/4" = 1'-0"



DEVELOPMENT OF INSIDE FACE OF STAIRS
SCALE 3/4" = 1'-0"



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

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**CAMPUS DR. PEDESTRIAN OVERPASS
MADISON, WISCONSIN
RAMP DETAILS**

SCALE AS SHOWN DATE MAY 1976
DES BY DJQ DRAWING NO
DWN BY JEM
CHK BY RHH
APP BY
243-16