

BENCHMARKS

PBM 51-253 ELEV. 152.13
MONUMENTS C MOUND AND N. P. CANIFF.

PBM MONUMENT LOCATED ON EAST SIDEWALK ON BRIDGE AT ABUTMENT A. ELEV.

PBM MONUMENT LOCATED ON WEST SIDEWALK ON BRIDGE AT ABUTMENT B. ELEV.

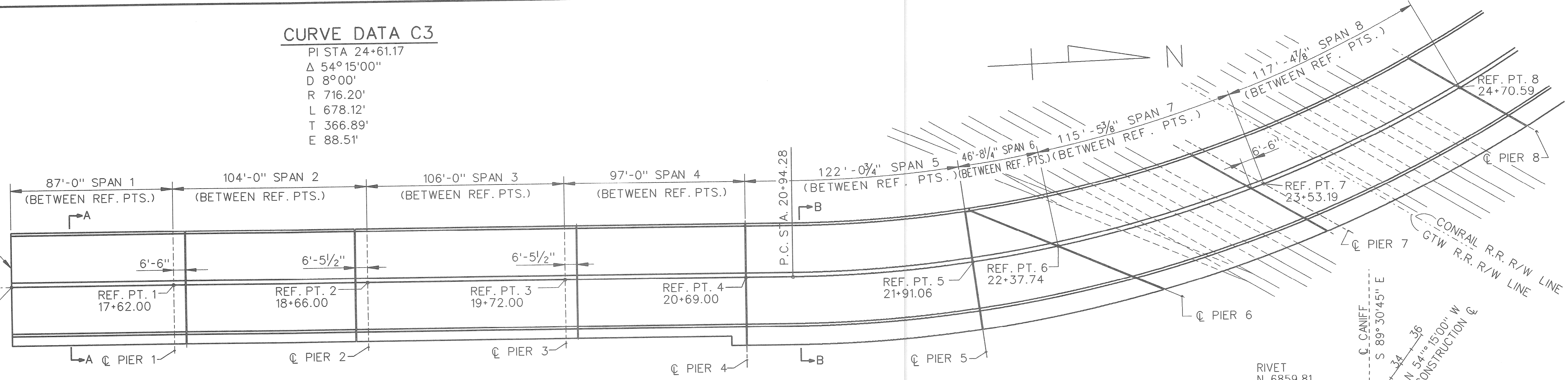
CURVE DATA C3

PI STA 24+61.17
 Δ 54° 15' 00"
 D 8° 00'
 R 716.20'
 L 678.12'
 T 366.89'
 E 88.51'

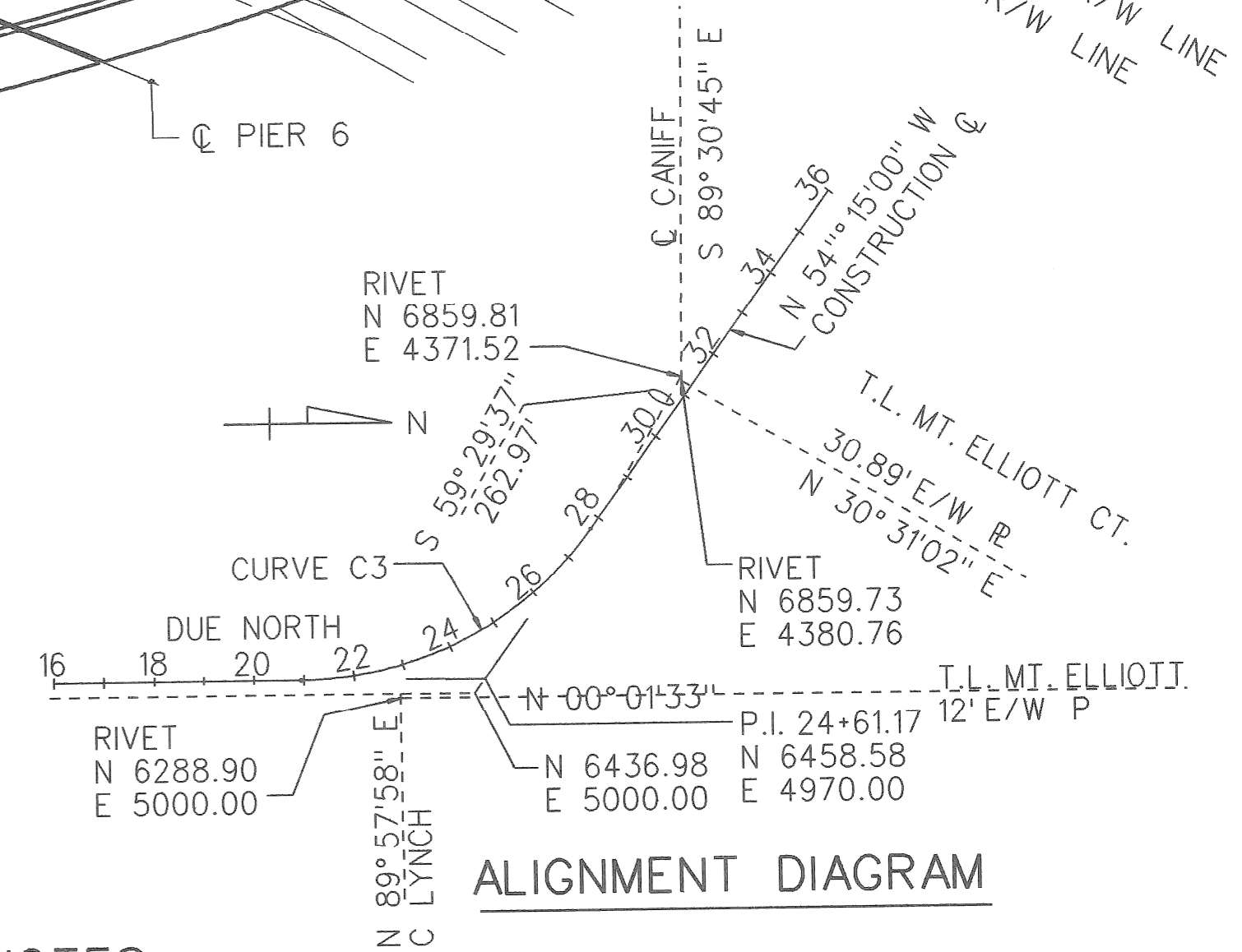
EXIST. REF. LINE ABUTMENT A
16+64.00

RELOCATED REF. LINE ABUTMENT A

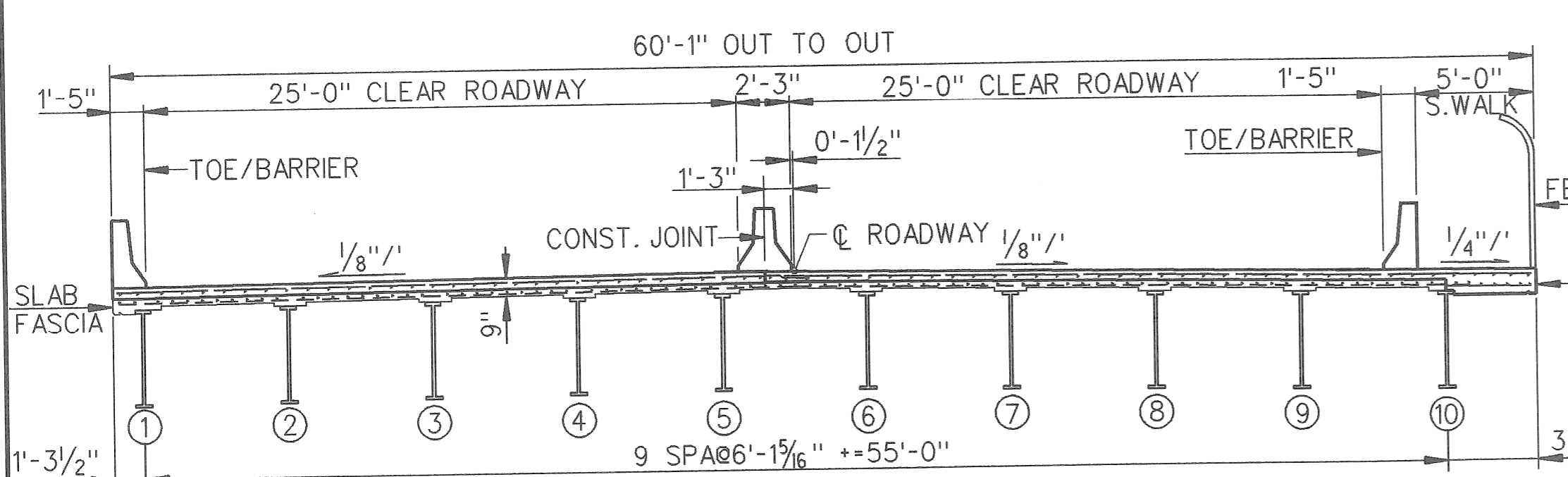
RELOCATED REF. PT. A
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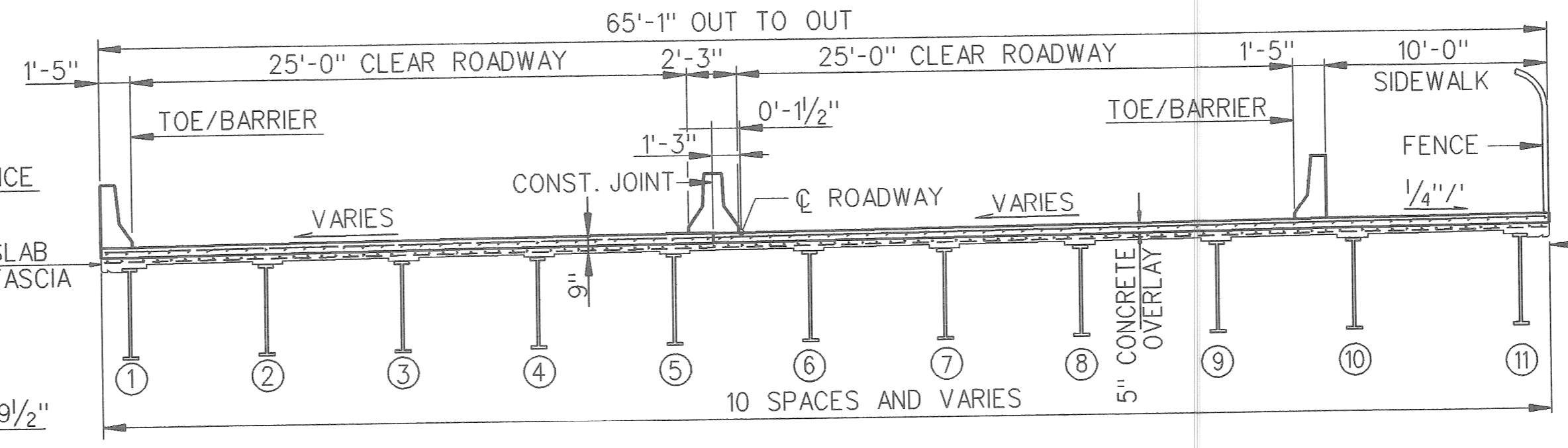
PLAN
SCALE: 1"=30'



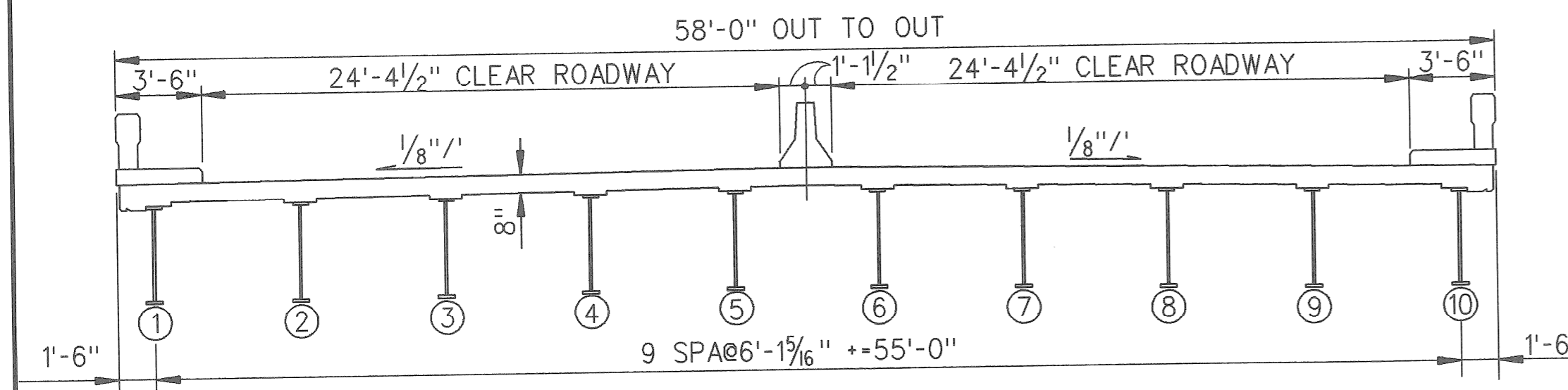
ALIGNMENT DIAGRAM



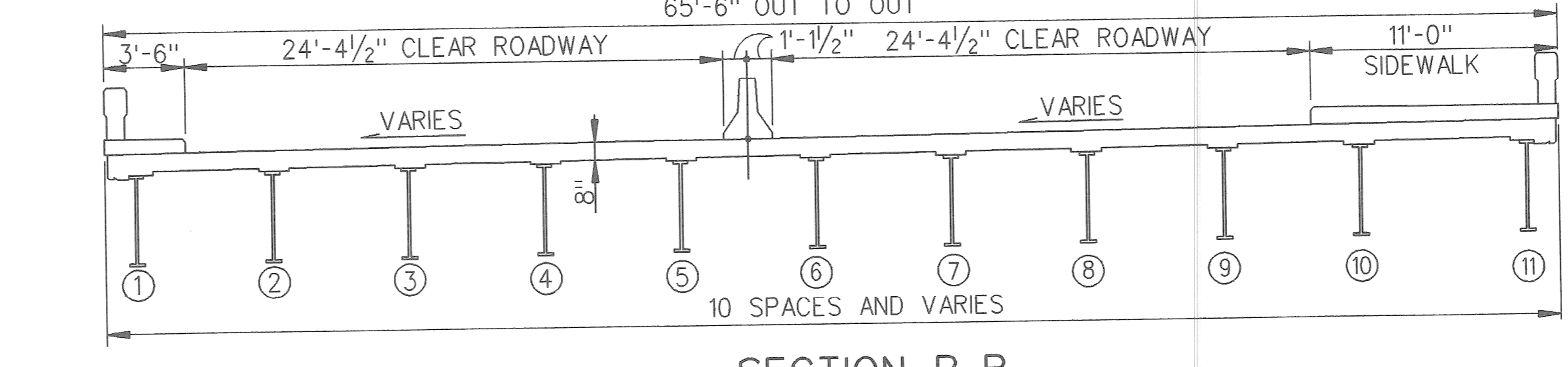
SECTION A-A
(PROPOSED)



SECTION B-B
(PROPOSED)



SECTION A-A
(EXISTING)



SECTION B-B
(EXISTING)

NOTES:

THE WORK COVERED BY THESE PLANS INCLUDES REMOVAL OF EXISTING BARRIER WALLS, MEDIAN, DECK LIGHTING, DECK JOINTS, AND HYDRODEMOLISHING THE DECK SLAB 4"; REMOVAL OF TOP MAT OF REINFORCEMENT; REMOVAL OF CONCRETE SLAB IN SPAN 16; REMOVAL OF STAIRWAYS; PLACEMENT OF NEW DECK JOINTS, 5" CONCRETE OVERLAY WITH EPOXY-COATED REINFORCEMENT, TYPE 5 BARRIER WALLS AND MEDIAN; CLEANING AND PAINTING OF ALL STRUCTURAL STEEL; REPAIRS TO PIERS 1 TO 15 AND NEW ABUTMENTS AT EACH END OF THE BRIDGE.

REMOVAL OF BUILDINGS IS NOT A PART OF THIS CONTRACT.

THE CONTRACTOR SHALL LOCATE ALL ACTIVE UNDERGROUND UTILITIES PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES NOT REQUIRING RELOCATION WILL NOT BE DISTURBED.

DATUM REFERS TO DETROIT CITY DATUM.

FOR PROTECTION OF UNDERGROUND UTILITIES, THE CONTRACTOR SHALL DIAL 800-482-7171 A MINIMUM 3 WORKING DAYS PRIOR TO EXCAVATION IN THE VICINITY OF UTILITIES LINES. ALL "MISS DIG" PARTICIPATING MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

CARE SHALL BE TAKEN SO THAT REMOVED MATERIAL DOES NOT FALL FROM THE STRUCTURE.

ALL WORK DONE WITHIN THE RAILROAD R.O.W. MUST BE COORDINATED WITH THE RAILROAD.

NOTES:

FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.

FOR ABUTMENT A LAYOUT, SEE SHEET 4 OF 4.

FOR BARRIER DETAIL, SEE SHEET 3 OF 4.

CLEANING AND PAINTING OF ALL STRUCTURAL STEEL.

THE TRAIN MOVEMENT AND SPEED INFORMATION SHOWN IN THE PROPOSAL DOES NOT REPRESENT A COMMITMENT BY THE GRAND TRUNK RAILROAD AND CONRAIL RAILROAD AND IS SUBJECT TO CHANGE WITHOUT NOTICE.

THE DESIGN OF THIS STRUCTURE IS BASED ON MDOT'S SPECIFICATIONS FOR THE DESIGN OF HIGHWAYS BRIDGES, 1958 EDITION, AND CURRENT AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES HS20 AND ALTERNATE MILITARY LOADING. LIVE LOAD PLUS IMPACT DEFLECTION DOES NOT EXCEED 1/1000 OF SPAN LENGTH AND 1/375 OF CANTILEVER ARM. THE LOAD FACTOR METHOD OF DESIGN WAS USED FOR THIS STRUCTURE.

THE TOP OF ROADWAY SLAB AND TOPS OF BARRIER WALLS ARE PARALLEL TO THE VERTICAL CURVE AND TANGENTS EXCEPT AS MODIFIED BY SUPER-ELEVATION TRANSITION.

THIS STRUCTURE IS PARTLY ON A HORIZONTAL CURVE. THE FASCIA LINES, BARRIER LINES, MEDIAN, AND LONGITUDINAL CONSTRUCTION JOINT ARE PARALLEL TO THE CURVE AND TANGENT.

THE MAXIMUM FOUNDATION PRESSURES ARE CALCULATED TO BE:

	AVG. D.L. ONLY CASE	AVG. D.L.+L.L. CASE
ABUTMENTS	3000 PSF	3500 PSF

Baker
BAKER AND ASSOCIATES

WIA
WALTER TEAMER AND ASSOCIATES, INC.
A JOINT ASSOCIATION

18431 JAMES COUZENS DETROIT, MI 48235

REVISIONS			
NO.	DESCRIPTION	DATE	BY

APPROVED _____
DESIGN SUPERVISING ENGINEER

MICHIGAN DEPARTMENT OF TRANSPORTATION
MOUNT ELLIOTT-MOUND ROAD BRIDGE
IN THE CITY OF DETROIT
GENERAL PLAN OF STRUCTURE

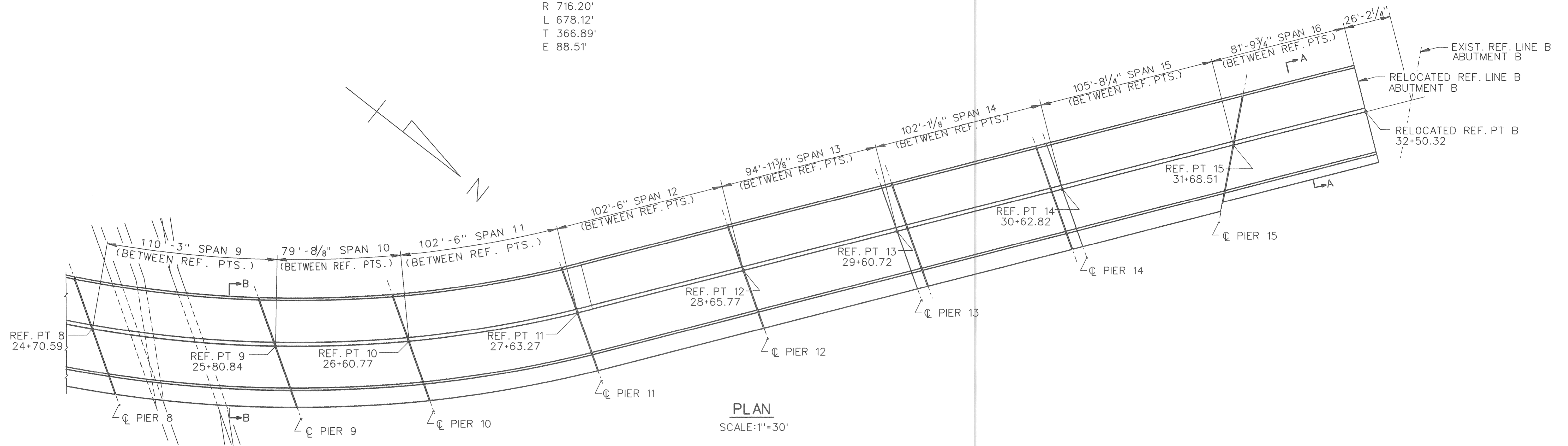
SQUAD BOSS	NAME	RAI	DATE	10/93
DRAWN BY	NAME	MW	DATE	10/93
CHECKED BY	NAME	RAD	DATE	10/93
SHEET		2		OF
		4		

B01 of 82-22-48

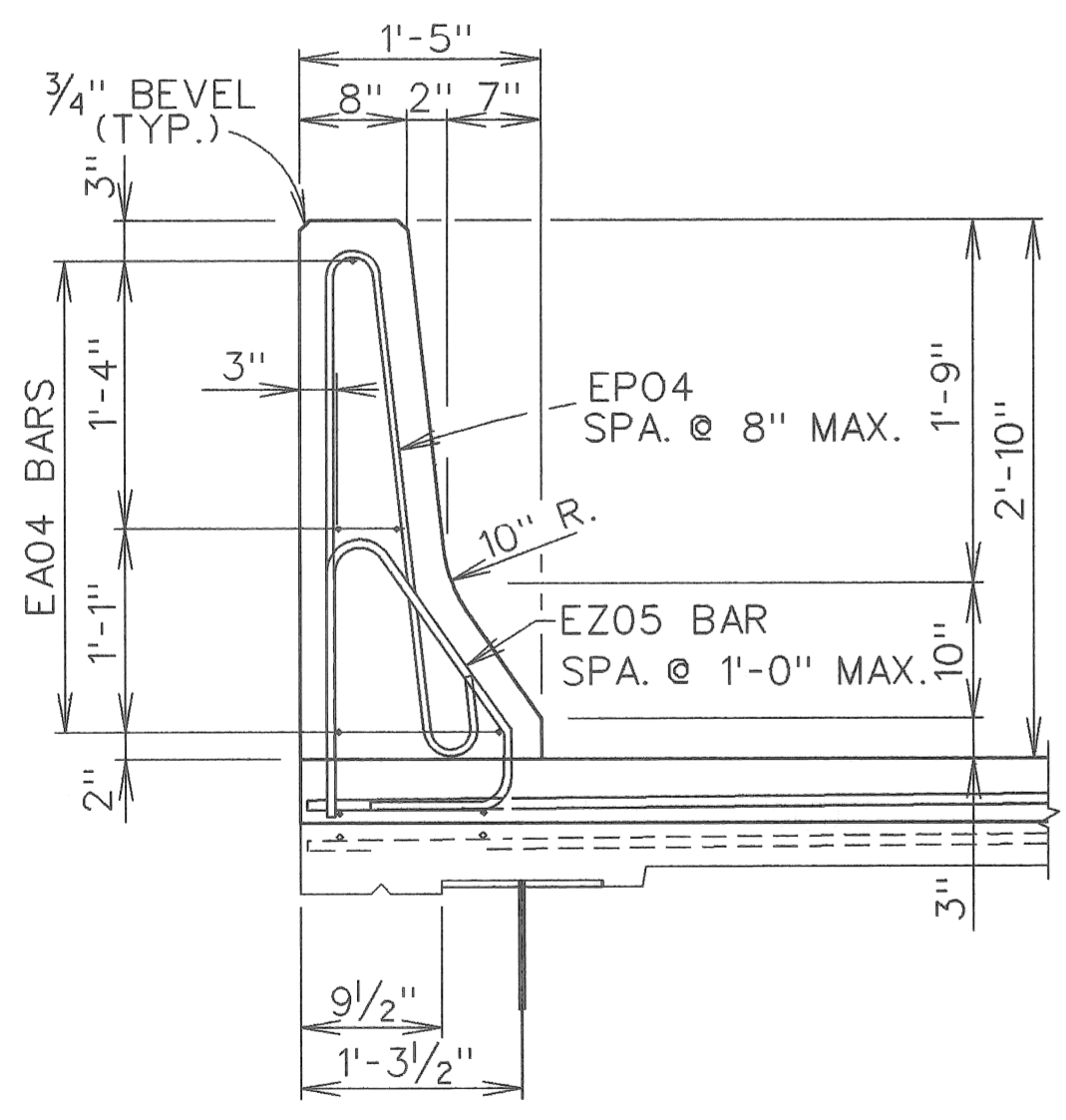
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CURVE DATA C3

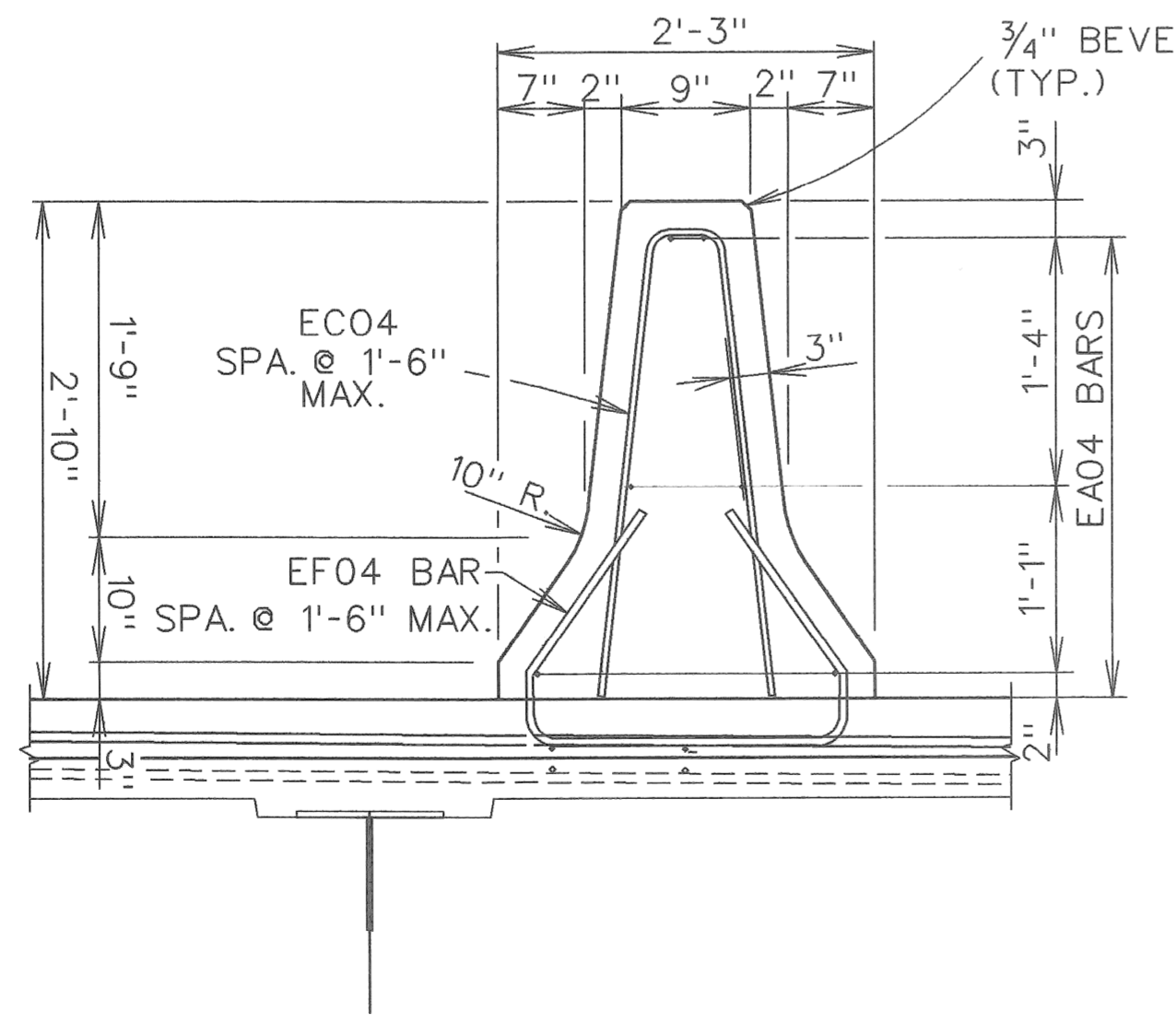
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 Δ 54°15'00"
 D 8°00'
 R 716.20'
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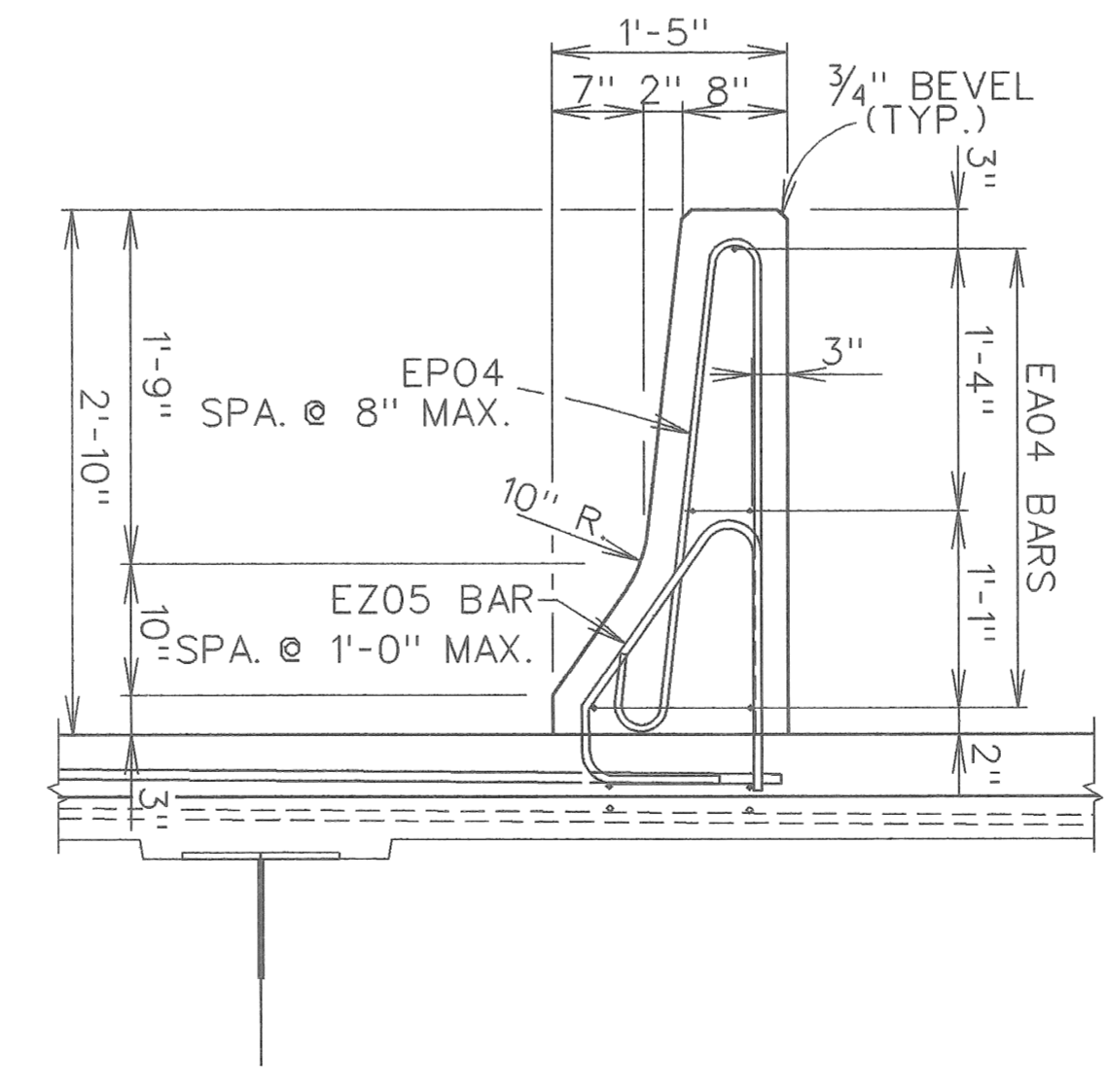
PLAN
 SCALE: 1"=30'



TYPICAL BARRIER SECTION



TYPICAL MEDIAN BARRIER SECTION



TYPICAL BARRIER SECTION AT SIDEWALK

NOTES:
 FOR SECTIONS A-A AND B-B, SEE SHEET 2 OF 4.
 FOR SECTION AT DECK JOINTS, SEE SHEET 4 OF 4.
 FOR ABUTMENT B LAYOUT, SEE SHEET 4 OF 4.

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 WALTER TEAMER AND ASSOCIATES, INC.
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 18431 JAMES COUZENS DETROIT, MI 48235

REVISIONS			
NO.	DESCRIPTION	DATE	BY

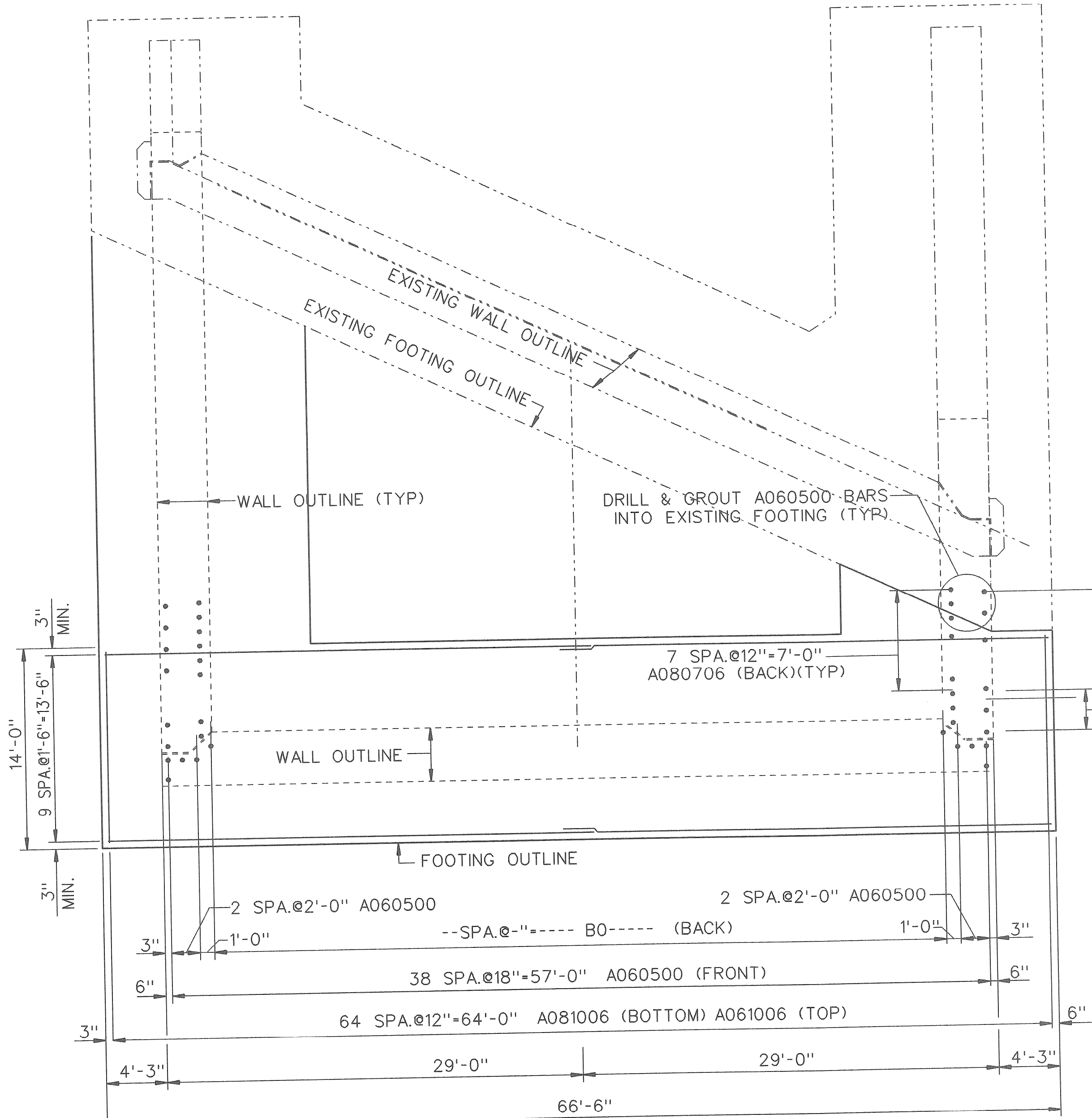
MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
GENERAL PLAN OF STRUCTURE

SQUAD BOSS	NAME	RAL	DATE
DRAWN BY	NAME	MW	DATE 10/93
CHECKED BY	NAME	RAD	DATE 10/93
SHEET 3 OF 4			

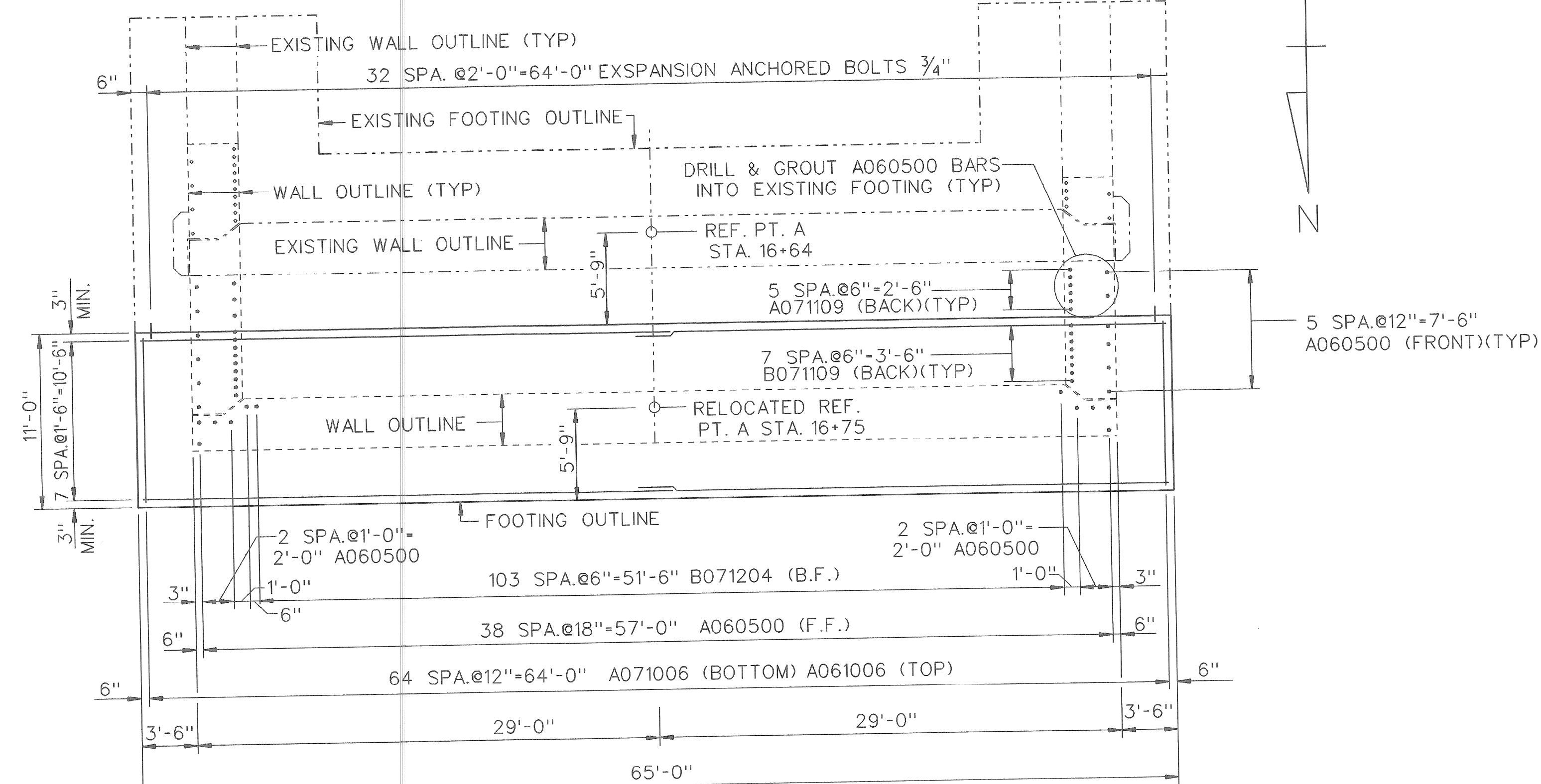
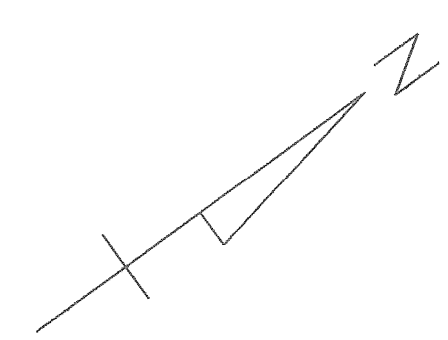
APPROVED _____
 DESIGN SUPERVISING ENGINEER

B01 of 82-22-48

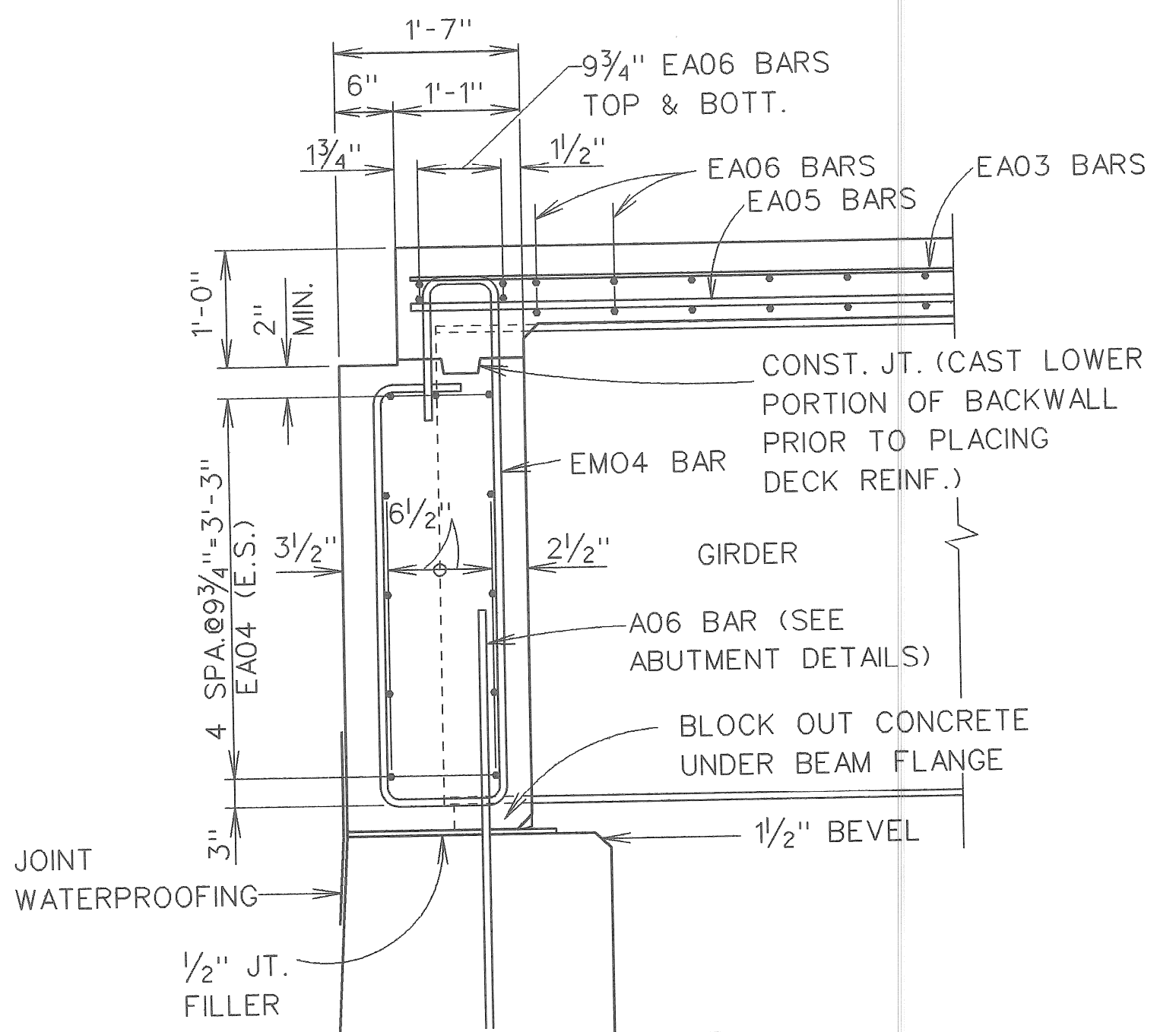
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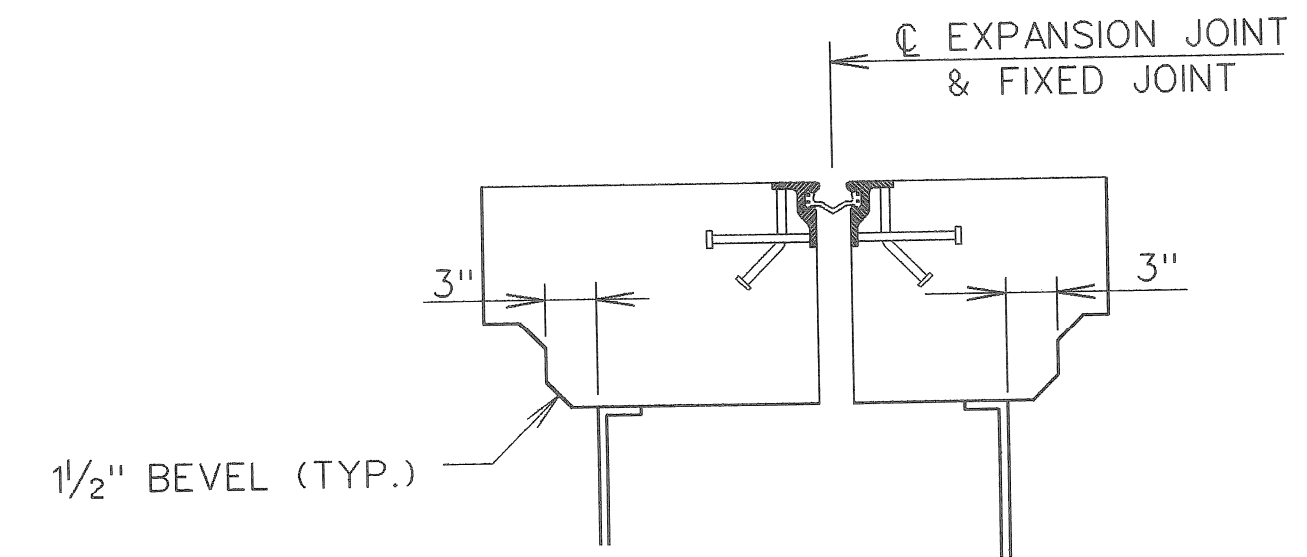
FOOTING PLAN-ABUTMENT B



FOOTING PLAN-ABUTMENT A



SECTION AT ABUTMENTS



TYPICAL DECK JOINT DETAIL

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MICHIGAN DEPARTMENT OF TRANSPORTATION
 MOUNT ELLIOTT-MOUND ROAD BRIDGE
 IN THE CITY OF DETROIT
 GENERAL PLAN OF STRUCTURE

SQUAD BOSS	NAME	REL.	DATE
DRAWN BY	NAME	REL.	DATE 10/93
CHECKED BY	NAME	REL.	DATE 10/93
SHEET 4 OF 4			
B01 of 82-22-48			

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