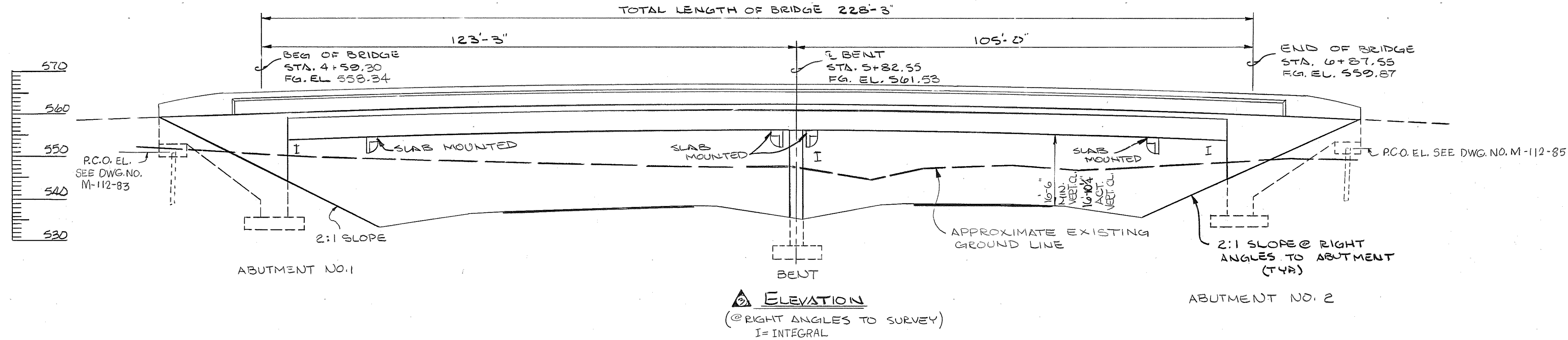


CONST. NO. 19007-3142-44

PROJECT NO.	YEAR	SHEET NO.
I-24-1(55) 51	1982	

REVISIONS		
NO.	DATE	BRIEF DESCRIPTION
1	12/30/82	ED Added Signs
2	1-12-83	WRW GEN. REVISIONS
3	2-28-83	KLE BRIDGE CONDUIT

NOTE: THE FILLS AT THE ENDS OF THE BRIDGE SHALL BE IN PLACE AND THOROUGHLY COMPACTED BEFORE ANY ABUTMENT PILES ARE DRIVEN.



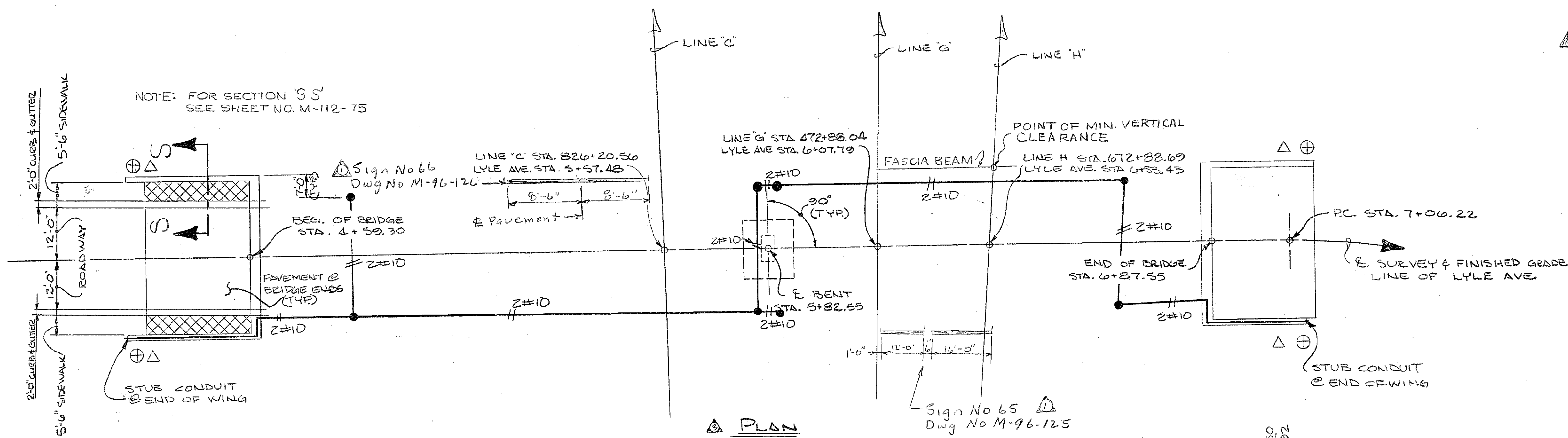
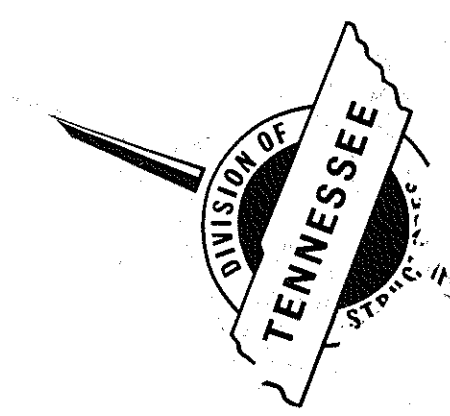
ELEVATION
 @ RIGHT ANGLES TO SURVEY
 I = INTEGRAL

NOTE: ALL EXPOSED SURFACES OF THE ABUTMENT, BENTS, & PARAPET INSET SHALL RECEIVE A DECORATIVE FORM FINISH. SEE SURFACE FINISH SKETCH ON DWG. NO. M-112-75

LIST OF DRAWINGS	Dwg. No.	LAST REV. DATE
LAYOUT OF BRIDGE	M-112-74	
GEN. NOTES & EST. QUANTITIES	M-112-75	
FOUNDATION DATA	M-112-76	
SUPERSTRUCTURE	M-112-77	
SUPERSTRUCTURE DETAILS	M-112-78	
SUPERSTRUCTURE DETAILS	M-112-79	
SUPERSTRUCTURE DETAILS	M-112-80	
ABUTMENT NO. 1	M-112-81	
ABUTMENT NO. 1 DETAILS	M-112-82	
ABUTMENT NO. 1 DETAILS	M-112-83	
ABUTMENT NO. 2	M-112-84	
ABUTMENT NO. 2 DETAILS	M-112-85	
BENT DETAILS	M-112-86	
BILL OF STEEL	M-112-87	
BILL OF STEEL	M-112-88	

STANDARD DRAWINGS	Dwg. No.	LAST REV. DATE
STANDARD PILE DETAILS	H-5-111	11-12-82
STANDARD REINF. BAR SUPPORT	K-80-14	8-27-76
MISC. ABUT. & DRAINAGE DETAILS	K-85-150	1-9-75
REINF. CONC. PAV'T @ BRIDGE ENDS	K-86-144	7-17-81
BRIDGE RAILING CONC. PARAPET W-RAIL	K-38-162	11-82
TENN. STD. PRECAST-PRESTRESSED BRIDGE DECK PANELS DESIGN DETAILS	M-103-149 M-103-150	7-7-82 7-7-82

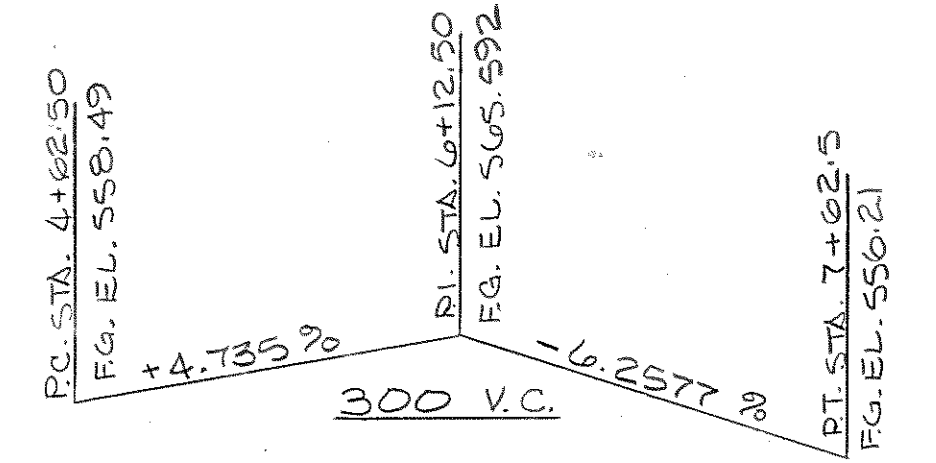
SPECIAL PROVISIONS	Dwg. No.	LAST REV. DATE
EPOXY-COATED REINF. STEEL 907A REGARDING APPROVAL OF SHOP DRAWING	105A	3-1-81 9-8-81



PLAN
 ⊕ ROADWAY DRAIN REQUIRED
 △ GUARDRAIL ATTACHMENT REQUIRED

CURVE DATA
 (LYLE AVENUE)
 CURVE 2001

PI	8+13.436
Δ	24° 12' 32.96"
Dc	11° 27' 32.96"
T	107.215'
L	211.231'
R	500'
P.C.	7+06.222
S.I.E.	.052



GRADE SKETCH
 (LYLE AVE)
 ELEVATIONS SHOWN ARE BASED ON FINISHED GRADE.

350' 1" GALVANIZED CONDUIT
 8 4x4x3 JUNCTION BOXES

2002 A.D.T. = 2200
 28'-0" ROADWAY WITH TWO
 5'-6" SIDEWALKS AND CONCRETE RAILS

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS

LAYOUT OF BRIDGE
 LYLE AVENUE OVER
 LINE 'C', LINE 'G', & LINE 'H' (INTERSTATE 440)
 STATION: 826+20.56
 DAVIDSON COUNTY
 1982

DESIGNED BY KEN LITTON DATE 10-21-81
 DRAWN BY KENNY FRANKENFIELD DATE 1-25-82
 SUPERVISED BY J. FIELDS DATE 3-25-82
 CHECKED BY _____ DATE _____

CORRECT William J. Howell
 ENGINEER OF STRUCTURES
 APPROVED Louis Evans
 DIRECTOR OF HIGHWAYS

M-112-74

CLASS A GRADING D 540.2 CY.

GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION, (MARCH 1981 EDITION).

LOADING: HS 20-44.

DESIGN SPECIFICATIONS: AASHTO, 1977 EDITION WITH APPENDIX.

CONCRETE: TO BE CLASS 'A', F'C = 3,000 P.S.I. (EXCEPT FOR BRIDGE DECK) (SEE NOTE BELOW)

BRIDGE DECK FORMS: BRIDGE DECK FORMS FOR CONCRETE DECKS SHALL BE CONSTRUCTED USING EITHER REMOVABLE FORMS OR PERMANENT FORMS. PERMANENT FORMS MAY BE EITHER REMAIN-IN-PLACE STEEL OR PRECAST, PRESTRESSED CONCRETE PANELS. IN EITHER CASE, FORMS SHALL BE ATTACHED BY MEANS OTHER THAN WELDING TO SUPPORT MEMBERS. THE CONTRACTOR SHALL TAKE STEPS TO ASSURE THE STABILITY OF THE EXTERIOR GIRDER AGAINST TWISTING OR OVERTURNING DURING SLAB POURING OPERATIONS.

REINFORCING STEEL: TO BE ASTM A615 GRADE 60, STANDARD CRSI HOOK DETAILS APPLY UNLESS OTHERWISE NOTED ON BILL OF STEEL. BENDING DIMENSIONS SHOWN ARE BASED ON GRADE 60. SPACING DIMENSIONS ARE CENTER TO CENTER UNLESS OTHERWISE NOTED ON DETAIL DRAWINGS. THE SUFFIX 'B' FOR BARS SO MARKED, DENOTES 'EPOXY COATED' REINFORCEMENT. SEE SPECIAL PROVISION 907A.

BRIDGE RAIL SYSTEM: BUILD PARAPETS ACCORDING TO STANDARD DRAWING M-28-1.

SLOP DRAWINGS: SEE SPECIAL PROVISION NO. 105A.

CONCRETE FINISHES: PORTIONS OF THE BRIDGE SURFACE DESIGNATED TO RECEIVE A CLASS 2 "RUBBED FINISH" SHALL BE FINISHED ACCORDING TO SUBSECTION 604-22 OF THE STANDARD SPECIFICATIONS. PORTIONS OF THE BRIDGE SURFACE DESIGNATED TO RECEIVE A DECORATIVE FORM FINISH SHALL BE FORMED USING A FORMLINER SIMILAR TO BULKER FORMLINER B6308 CONCRETE HALF, LITHOTEX FORMLINER FRACTURED FINISH GROOVED T-150, SYMONS 3/4" NARROW FRACTURED FIN #6 30909-1 OR EQUAL. AFTER STRIPPING FORMLINERS, THE DECORATIVE FORM FINISHED AREAS SHALL RECEIVE A CLASS 1, ORDINARY FINISH IN ACCORDANCE WITH SUBSECTION 604-23 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A SAMPLE CASTING USING THE FORMLINER TO BE FURNISHED. THE COST OF ALL CONCRETE FINISHES SHALL BE INCLUDED IN THE UNIT PRICE OF ITEMS BID ON SURFACES RECEIVING A DECORATIVE OR CLASS 2 FINISH SHALL NOT RECEIVE A LINSEED OIL TREATMENT. SEE SURFACE FINISH SKETCH THIS SHEET.

PILES: TO BE HP10x42 DRIVEN TO REFUSAL ON ROCK OR A MINIMUM BEARING OF 55 TONS FOR THE ABUTMENT WINGS.

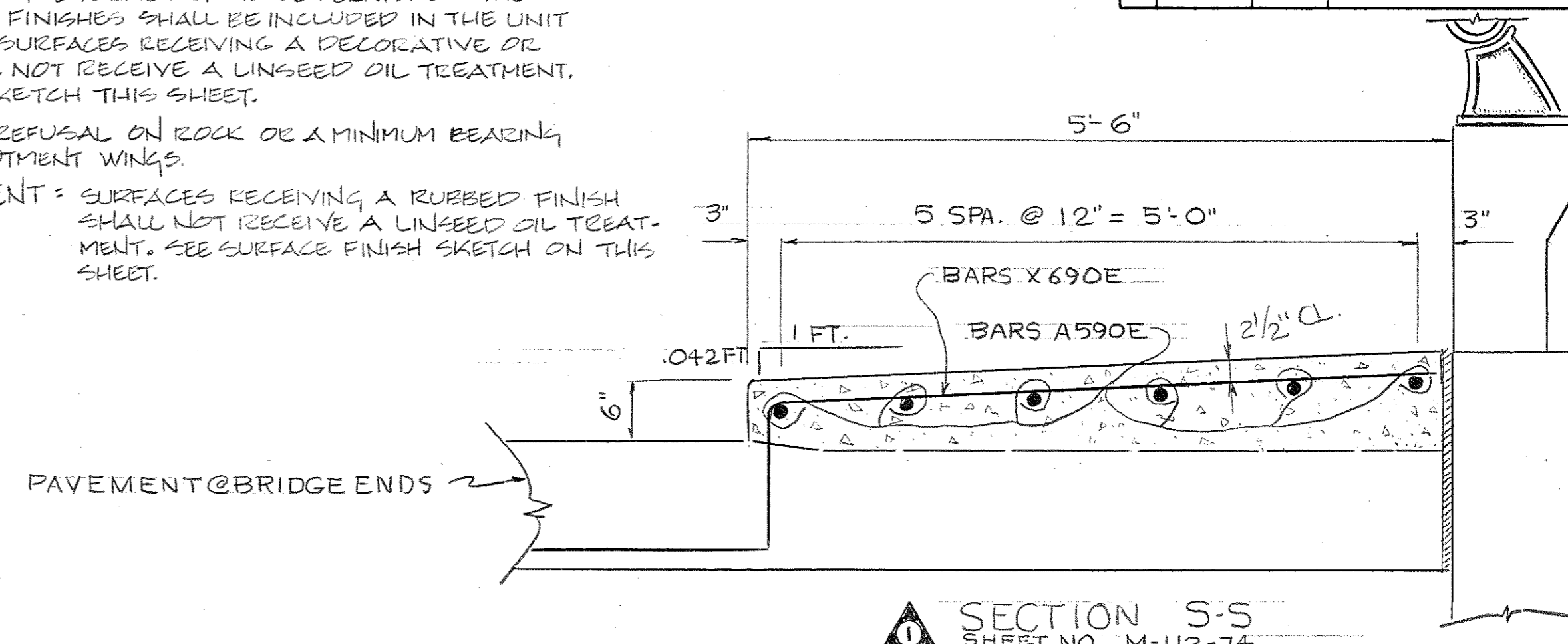
LINSEED OIL PROTECTIVE TREATMENT: SURFACES RECEIVING A RUBBED FINISH SHALL NOT RECEIVE A LINSEED OIL TREATMENT. SEE SURFACE FINISH SKETCH ON THIS SHEET.

SPECIAL NOTE - FOOTING FOR BENTS: AFTER EXCAVATION TO ROCK FOR FOOTING HAS BEEN COMPLETED, HOLES 6" DEEP SHALL BE DRILLED AT POINTS DESIGNATED BY THE ENGINEER. FROM THE RESULTS OBTAINED, THE ENGINEER SHALL DETERMINE THE FINAL FOOTING ELEVATIONS. NO REINFORCING STEEL FOR BENT COLUMNS SHALL BE ORDERED UNTIL FINAL FOOTING ELEVATIONS HAVE BEEN DETERMINED. (SEE NOTE DWG. NO. M-112-86)

CONCRETE: CLASS A CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECT. 604 OF THE STANDARD SPECIFICATIONS EXCEPT AS FOLLOWS:

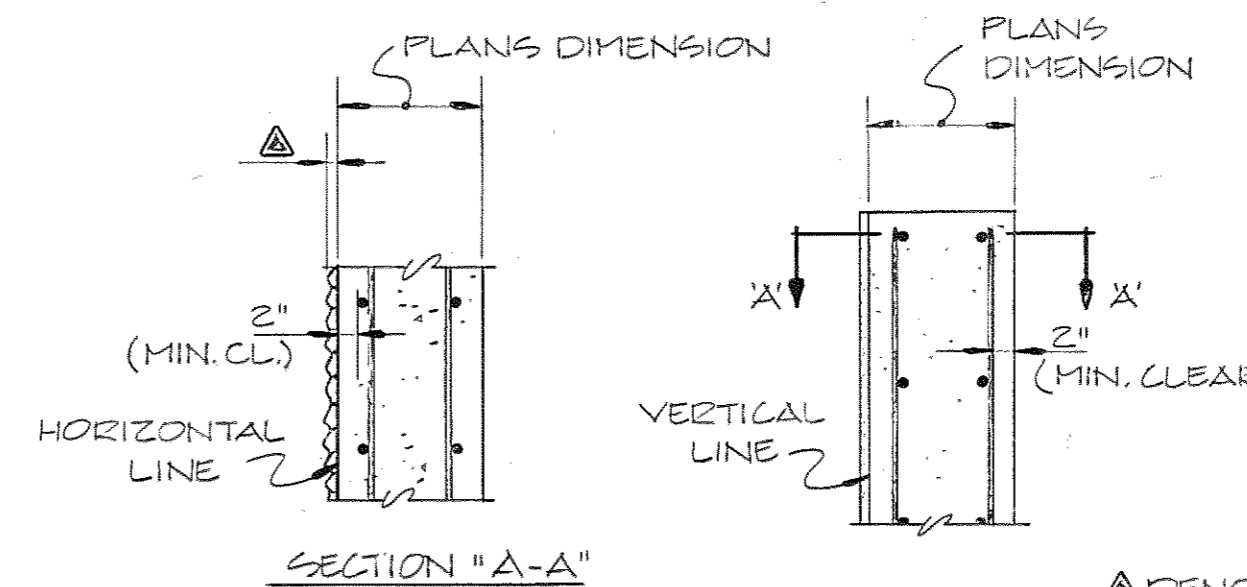
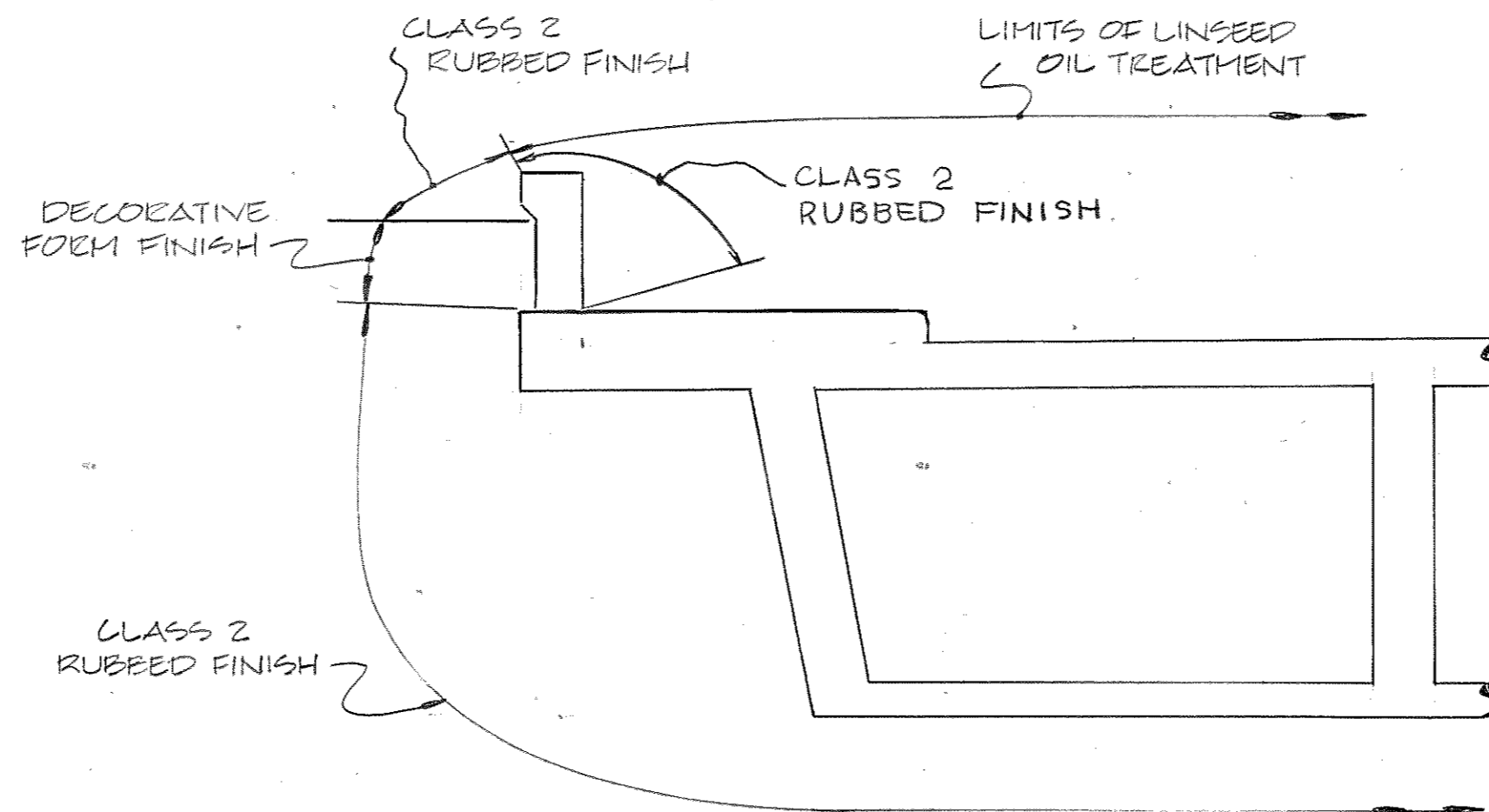
MINIMUM 28 DAY COMPRESSIVE STRENGTH 4500 PSI
 MAXIMUM WATER/CEMENT 5.0 GAL/SACK OF CEMENT
 AIR CONTENT 6% ± 2%

PAYMENT WILL BE UNDER ITEM 604-01.12



ESTIMATED QUANTITIES															
ITEM NO'S	204-02.01	204-04.01	204-05	604-02.03	604-03.01	604-03.02	604-03.03	620-1A	710-10	710-11	606-22.03	606-22.03	606-42.03	709-05.03	714-01.12
ITEMS	DRY EXCAVATION (BRIDGES) C.Y.	ROCK EXCAVATION (BRIDGES) C.Y.	ROCK DRILLING (BRIDGES) L.F.	EPOXY COATED REINFORCING STEEL LBS.	CLASS 'A' CONCRETE (BRIDGES) (C.Y.)	STEEL BAR REINFORCEMENT (BRIDGES) LBS.	LINSEED OIL TREATMENT SQ. Y.	CONCRETE PARAPET WITH STRUCTURAL TUBING L.F.	6" PERFORATED C.M. PIPE (18 GA) W/ FODRUS EACH/FILL L.F.	6" C.M. PIPE UNDERDRAINS (18 GA) L.F.	STEEL PILES (10 INCH) DRIVING, L.F.	STEEL PILES (10 INCH) (FURNISH DOMESTIC) L.F.	STEEL PILES (10 INCH) (FURNISH FOREIGN) L.F.	MACHINED RIP-RAP (SIZE 1 OR 2) C.Y.	STRUCTURE LIGHTING (BRIDGE NO. 2) L.S.
SUPERSTRUCTURE				127,937	344.9	62,933									
ABUTMENT NO. 1	138	16	24	6269	112.5	9976			81	10					
BENT		56	12		46.4	8,714									
ABUTMENT NO. 2	184	9	24	4,373	109.2	10,798			85	10					
P/VMT @ BR. ENDS				5,809	93.9	12,628									
TOTAL	322	81	60	144,388	706.9	111,049	1448	561	166	32	120	120	120	41	LUMP SUM

- ① EXCAVATION BASED ON LOWER ROAD PROFILE.
- ② COST OF POLYETHYLENE SHEETING AND ALL MISCELLANEOUS ITEMS NECESSARY FOR INSTALLATION TO BE INCLUDED IN COST OF PERFORATED C.M. PIPE.
- ③ THE COST OF 16 THEADED STEEL INSERTS AND 16 7/8" Ø HEX HEAD BOLTS, (A307), TO BE INCLUDED IN BRIDGE ITEMS BID ON.
- ④ ALL REINFORCING STEEL IN THE TRAFFIC FACE OF PARAPETS SHALL BE EPOXY COATED. COST TO BE INCLUDED IN THE PRICE BID FOR ITEMS 620-10.
- ⑤ THE CONTRACTOR SHALL SUPPORT THE ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED.
- ⑥ LUMP SUM FOR STRUCTURE LIGHTING, ITEM NO. 714-01.12 INCLUDES 350 FT. 1" Ø CONDUIT WITH PULL WIRES, 8 JUNCTION BOXES AND ALL NECESSARY MATERIALS FOR INSTALLATION OF STRUCTURE LIGHTING.



TYPICAL FORMING DETAILS
 NOTE: THESE DETAILS ARE TYPICAL FOR ALL STRUCTURAL ELEMENTS REQUIRING DECORATIVE FORM LINERS EXCEPT CONCRETE PARAPETS. PARAPET DIMENSIONS MAY BE REDUCED BY THE THICKNESS OF THE FORMLINERS IN ORDER TO UTILIZE STANDARD PARAPET FORMS. REINFORCING BAR BENDING DIMENSIONS SHALL BE REDUCED ACCORDINGLY.

ITEM NO'S	604-01.12
ITEMS	CONCRETE CLASS 'A' (BRIDGE DECK) (C.Y.)
SUPERSTRUCTURE	314.1
ABUTMENT NO. 1	
BENT	
ABUTMENT NO. 2	
P/VMT @ BR. ENDS	
TOTAL	314.1

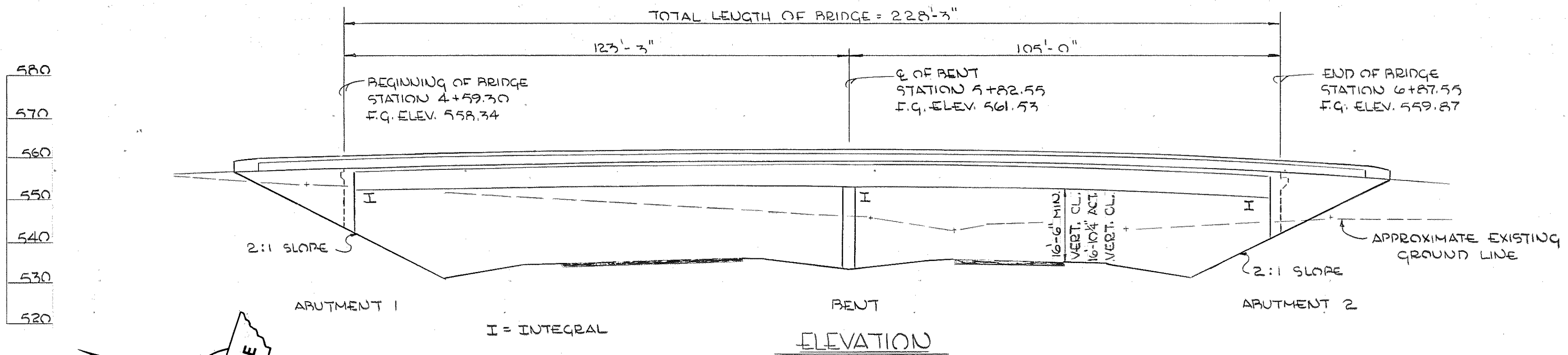
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 GENERAL NOTES & ESTIMATED QUANTITIES
 RELOCATED LYLE AVENUE
 OVER INTERSTATE 440 (LINE 'C', LINE 'G' & LINE 'H')
 STATION 826+20.56
 DAVIDSON COUNTY
 1982

DESIGNED BY LITTON DATE
 DRAWN BY P. ALLEN DATE 5-82
 SUPERVISED BY FIELDS & WOODS DATE
 CHECKED BY DATE

CORRECT *William J. Fernald*
 ENGINEER OF STRUCTURES
 APPROVED *David Woods*
 DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.
	1982	

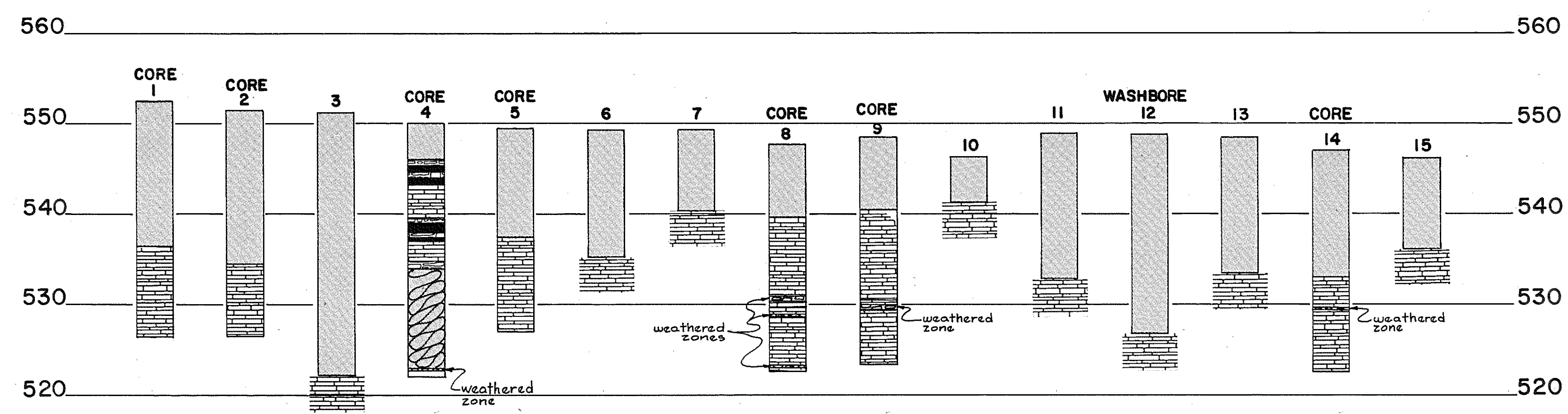
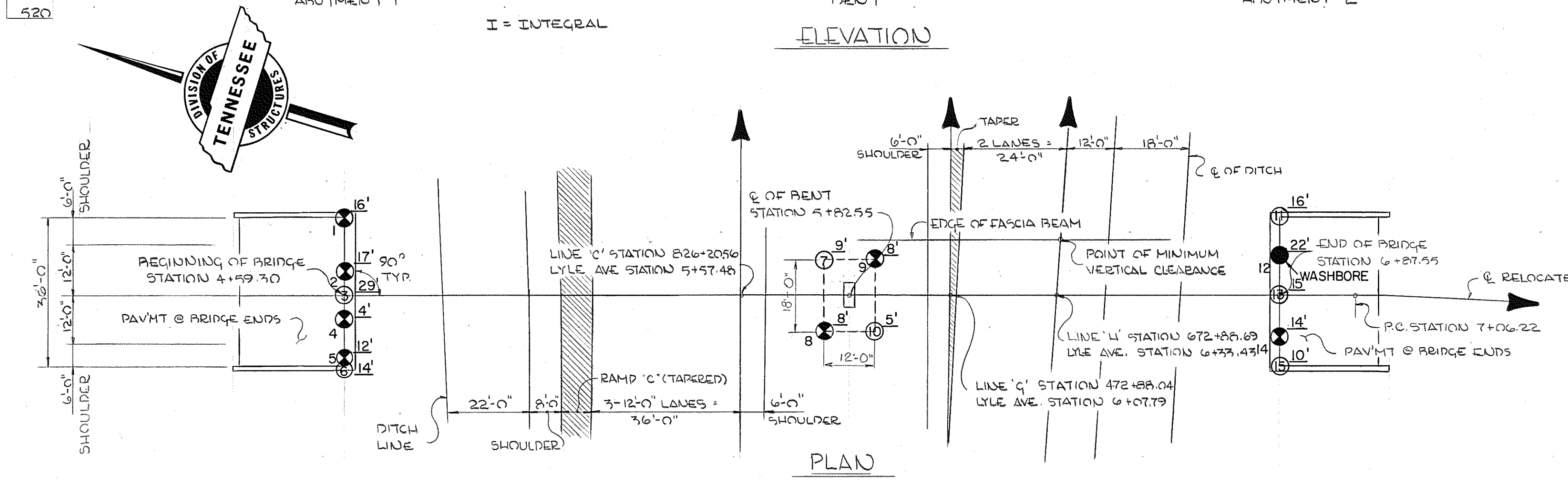
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION



BENCH MARKS
 BM T-3 9.13 558.53 549.46
 N 632,210.838 E 1784,865.792

REQUIRED INFORMATION
 APPROXIMATE EXISTING GROUND LINE & ROCK LINE.
 SUFFICIENT GROUND AND CORING INFORMATION FOR BRIDGE INFORMATION.

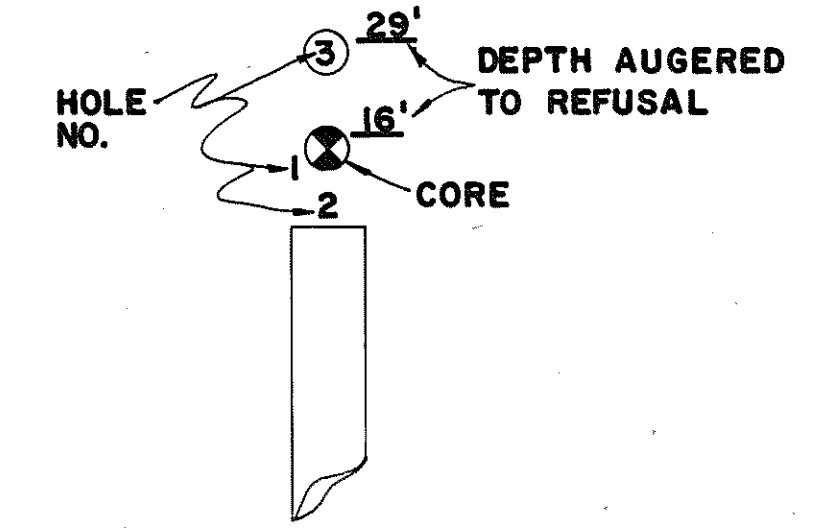
NOTE: THIS DRAWING IS FOR FOUNDATION INFORMATION ONLY AND IS NOT TO BE USED AS A LAYOUT.



-LEGEND-

- CAVITY
- ▨ CAVITY (MUD FILLED)
- CLAY
- ▤ WEAT. LIMESTONE
- ▥ LIMESTONE 10 TONS/FT.2

1. G. 552.3 A. 536.3	9. G. 548.4 A. 540.4
2. G. 551.5± A. 534.5±	10. G. 546.2 A. 541.2
3. G. 551.2 A. 522.2	11. G. 548.9 A. 532.9
4. G. 550.0± A. 546.0±	12. G. 548.8± A. 526.8±
5. G. 549.5± A. 537.5±	13. G. 548.5 A. 533.5
6. G. 549.2 A. 535.2	14. G. 547.0± A. 533.0±
7. G. 549.3 A. 540.3	15. G. 546.1 A. 530.1
8. G. 547.7 A. 539.7	

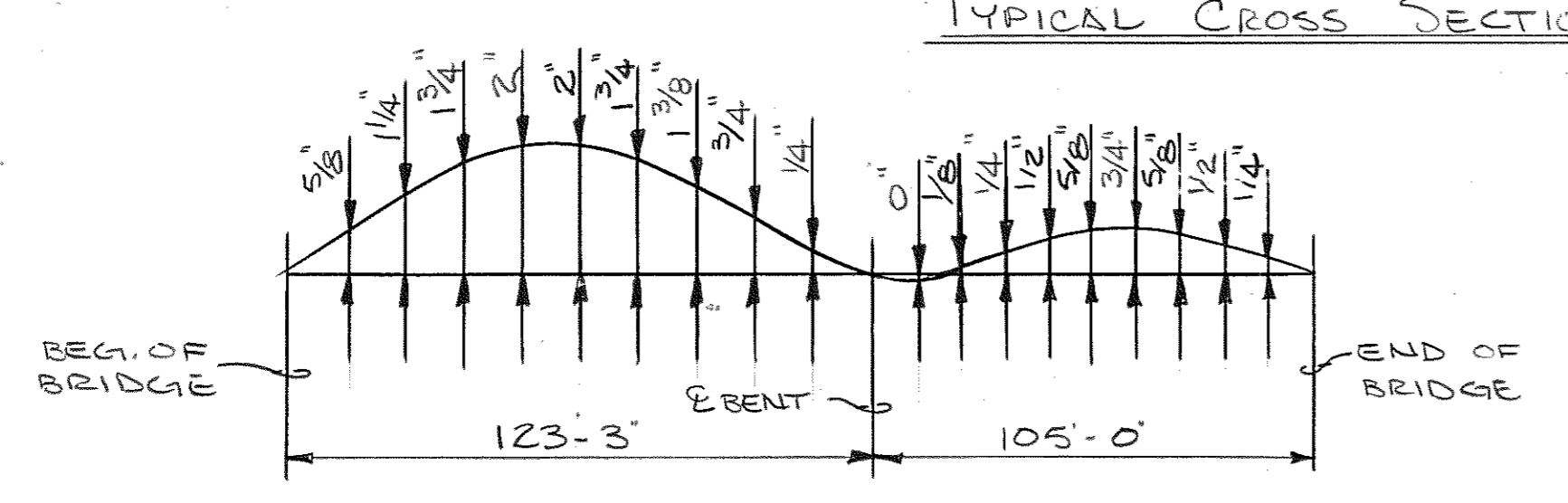
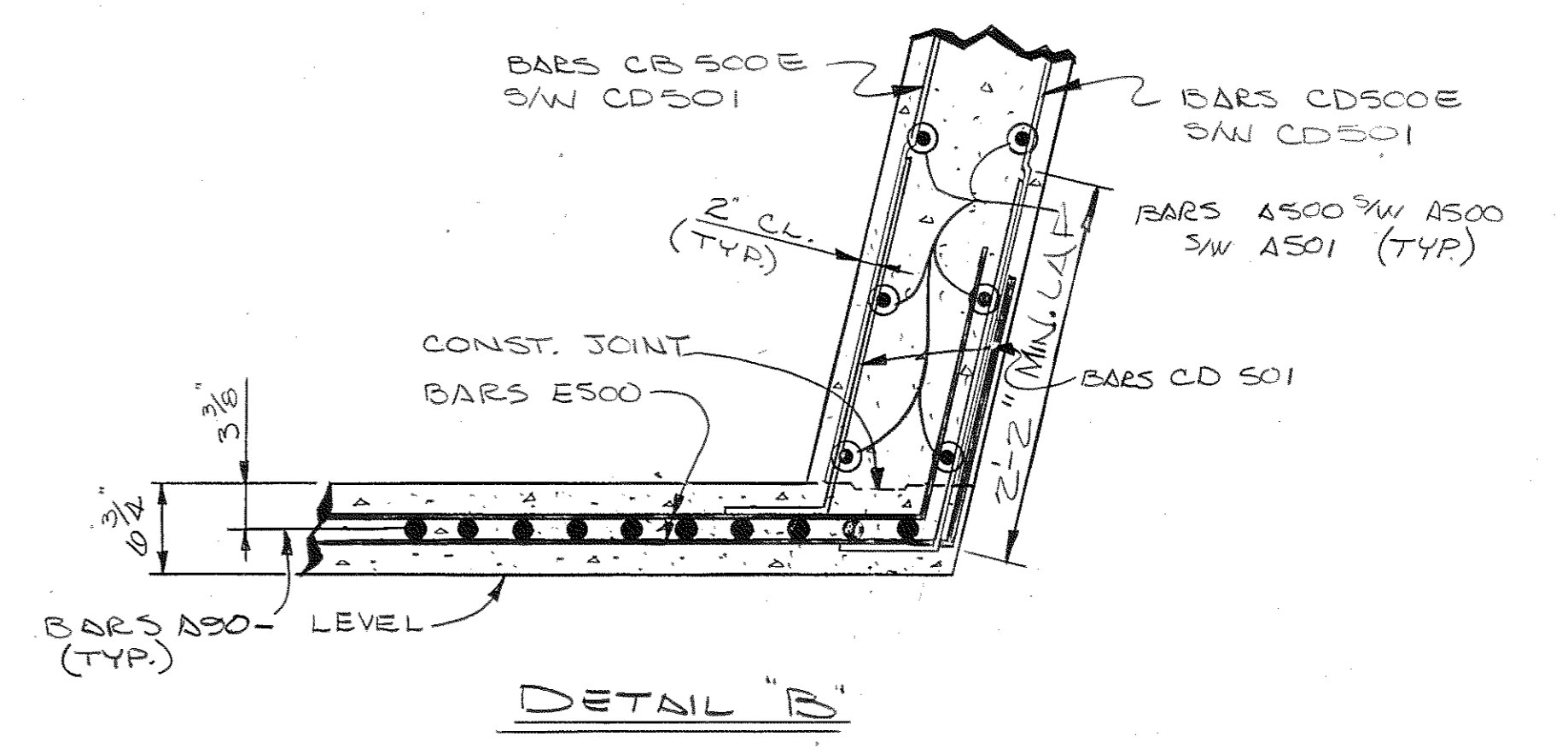
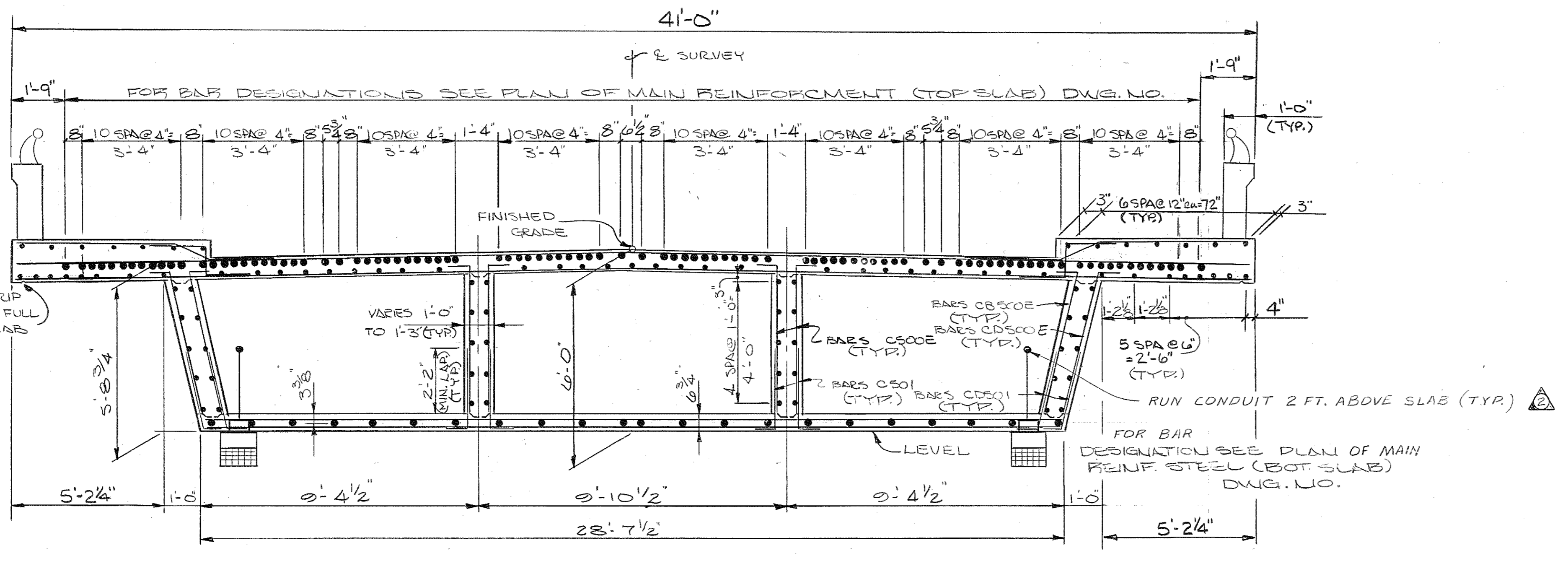
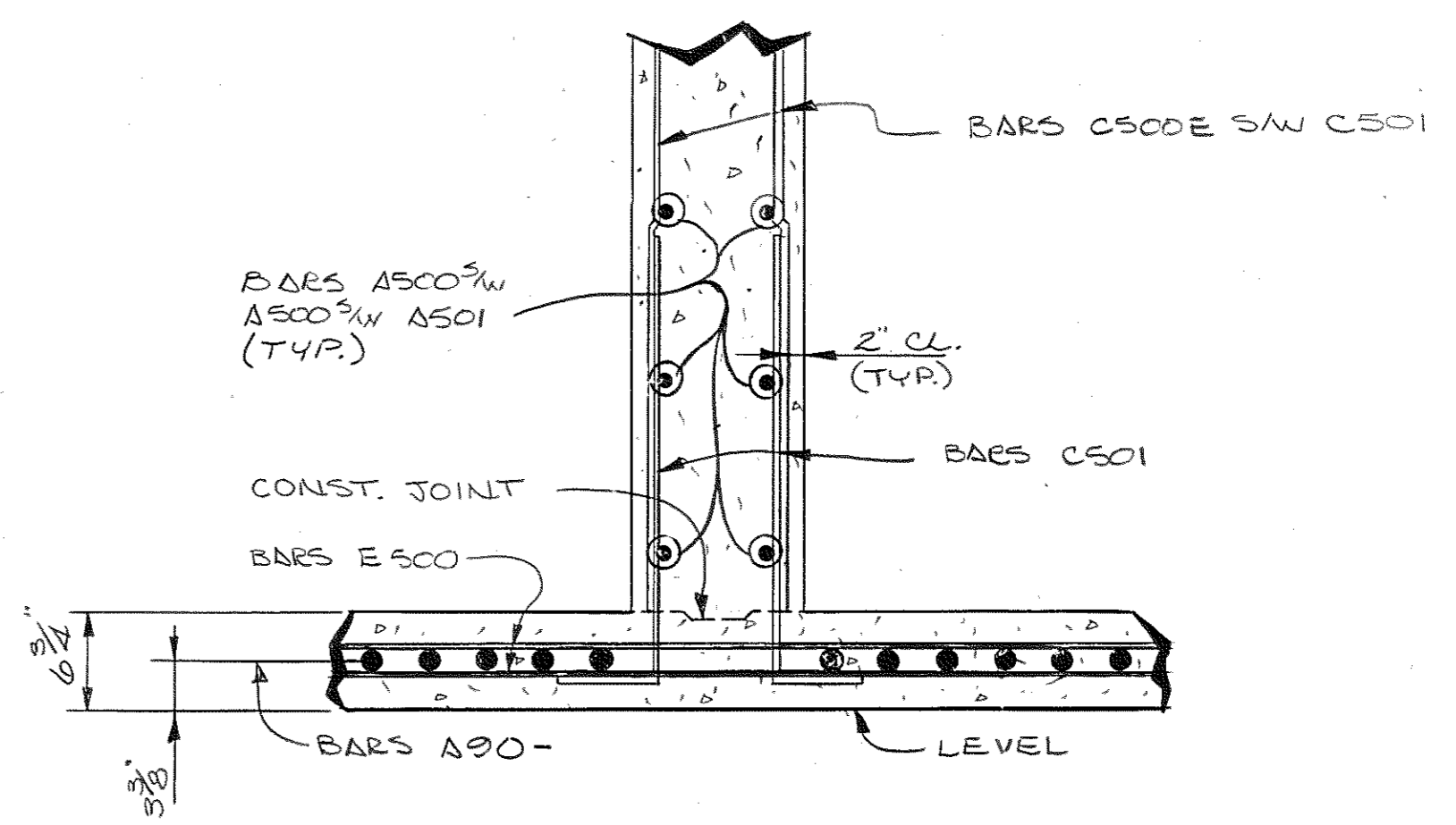
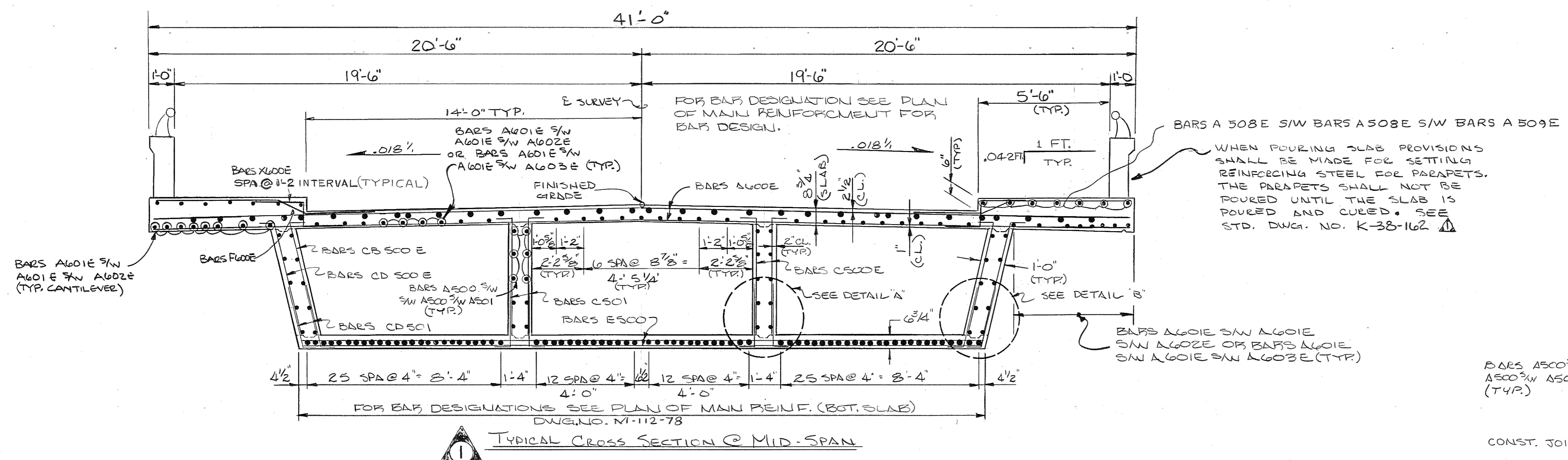


DESIGNED BY LITTON DATE 12/81
 DRAWN BY J. FIELDS DATE 12/81
 SUPERVISED BY J. FIELDS DATE 12/81
 CHECKED BY _____ DATE _____

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 FOUNDATION DATA
 RELOCATED LYLE AVENUE
 OVER INTERSTATE 440
 (LINE 'C', LINE 'G' AND LINE 'H')
 STATION 826+20.56
 DAVIDSON COUNTY
 1982

CORRECT Calvin L. Lovell
 ENGINEER OF STRUCTURES
 APPROVED James Guans
 DIRECTOR OF HIGHWAYS

CONST. NO. 19009-3142-44			
PROJECT NO.	YEAR	SHEET NO.	
	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN 12 83	WRW	PARAPET CHANGE & REFERRING
2	1-25-83	R.M.D.	LIGHTING DETAILS
3	1-3-84	K.L.	ESTIMATED QUANTITIES
4	3-8-84	K.L.	ESTIMATED QUANTITIES
5	7-26-85	WRW	Reinforcing Steel Qty.



NOTE: THIS CURVE IS FOR DEAD LOAD CAMBER ONLY AND SHOULD BE INCREASED BY THE AMOUNT OF ANTICIPATED TAKE UP IN THE FALSEWORK.

CONSTRUCTION SEQUENCE: FORMS AND SUPPORTS FOR THE ENTIRE BOTTOM SLAB SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF SUPERSTRUCTURE CONCRETE. CONCRETE FOR THE TOP & BOTTOM SLAB AND WALLS MAY BE PLACED IN ANY SEQUENCE, HOWEVER, CONSTRUCTION JOINTS WILL BE PERMITTED AT DESIGNATED LOCATIONS ONLY. SEE DWG. NO. M-112-79

NOTE: IF THE CONTRACTOR ELECTS TO USE PERMANENT STEEL BRIDGE DECK FORMS, DETAILS FOR PROVIDING ACCESS TO ALL CELLS OF THE STRUCTURE SHALL BE SUBMITTED TO THE ENGINEER.

ESTIMATED QUANTITIES			
CONCRETE CLASS 'A' (CY)	REINFORCING STEEL (LBS)	EPXY COATED REINFORCED STEEL (LBS.)	CONCRETE - CLASS 'A' (BRIDGE DECK) (C.Y.)
344.9	68,933	111,460	314.1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SUPERSTRUCTURE
LYLE AVENUE OVER
LINE C, LINE G, & LINE H (INTERSTATE 440)
STATION: 826+20.56
DAVIDSON COUNTY
1982

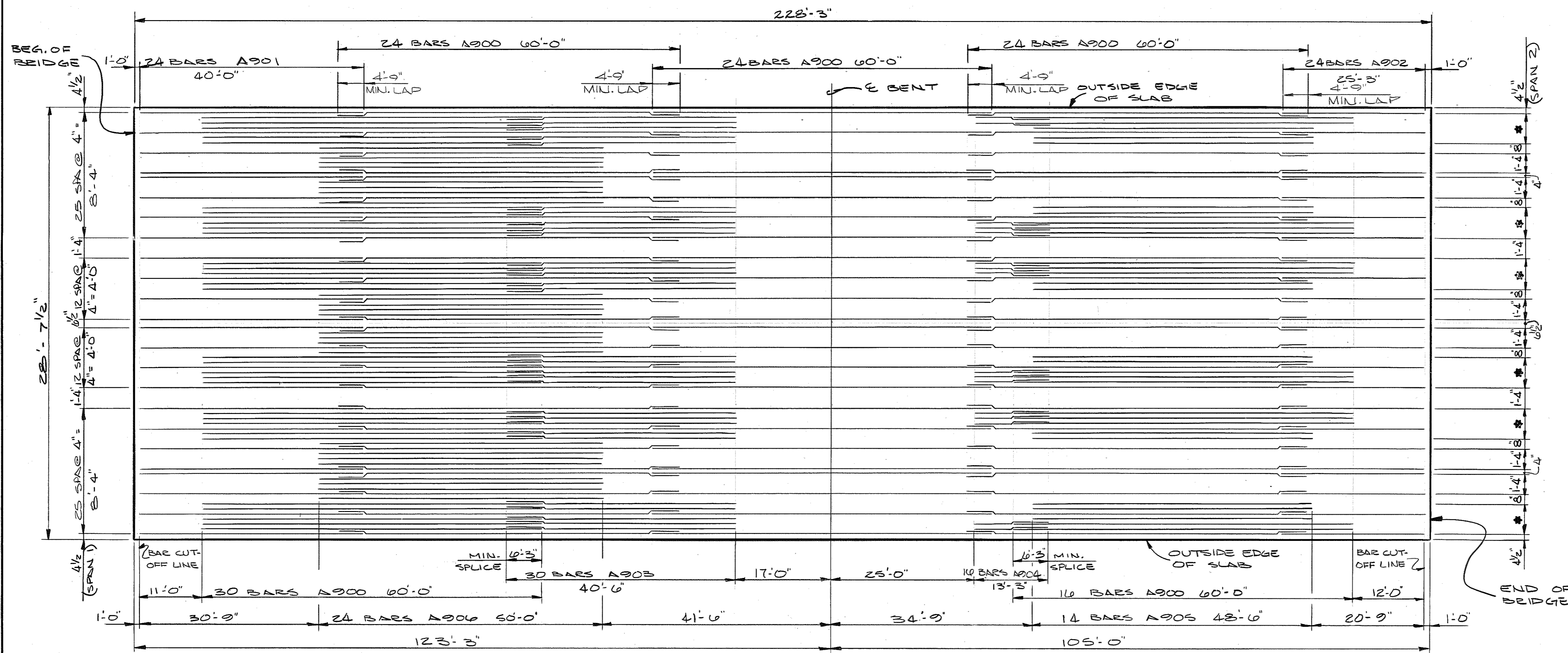
CORRECT *William L. Lewis*
ENGINEER OF STRUCTURES
APPROVED *William L. Lewis*
DIRECTOR OF HIGHWAYS

DESIGNED BY KEN LITTON
DRAWN BY K. FRANKENFIELD
SUPERVISED BY SIM FIELDS
CHECKED BY _____
DATE 10-81
DATE 4-82
DATE 4-82
DATE _____

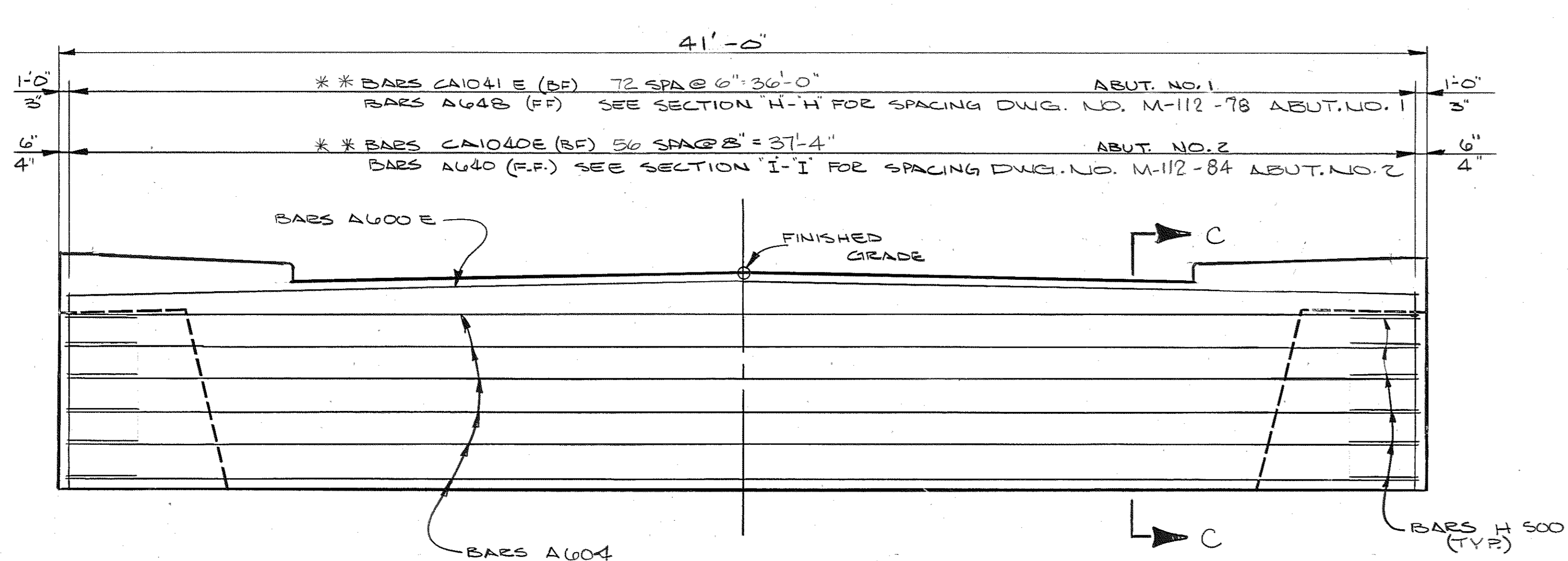
M-112-77

PROJECT NO.	YEAR	SHEET NO.
	1982	

REVISIONS		
NO.	DATE	BY
1	JAN. 12, 84	WRW
BRIEF DESCRIPTION		
C&D. REV.		

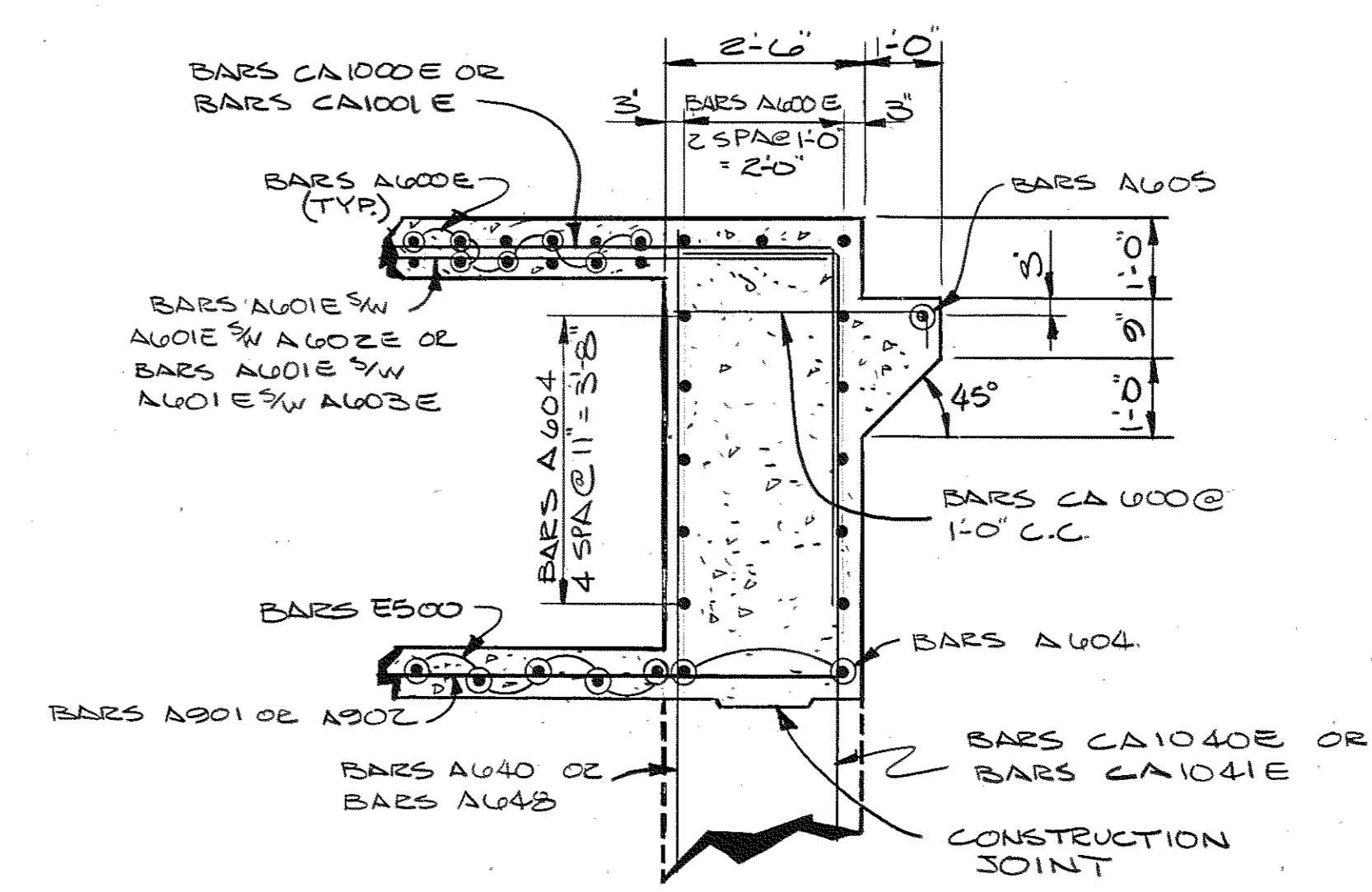


PLAN OF MAIN REINFORCING STEEL - BOTTOM SLAB



ELEVATION OF END DIAPHRAGMS

** NOTE: BEFORE THE CONCRETE IN THIS WALL IS POURED 32 BARS CA1000E @ ABUTMENT NO. 1 AND 32 BARS CA1001E @ ABUT. NO. 2 SHALL BE IN PLACE IN THIS WALL. SEE SECT. C-C THIS SHEET.



SECTION "C-C"
(TYPICAL ENDWALL @ ABUT. 1, 2)

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS

SUPERSTRUCTURE DETAILS
LYLE AVENUE OVER
LINE C, LINE G, & LINE H (INTERSTATE 440)
STATION: 826+20.56
DAVIDSON COUNTY
1982

DESIGNED BY KEN LITTON DATE 10-81
DRAWN BY FRANKENFIELD DATE 5-82
SUPERVISED BY W. FIELDS DATE 5-82
CHECKED BY _____ DATE _____

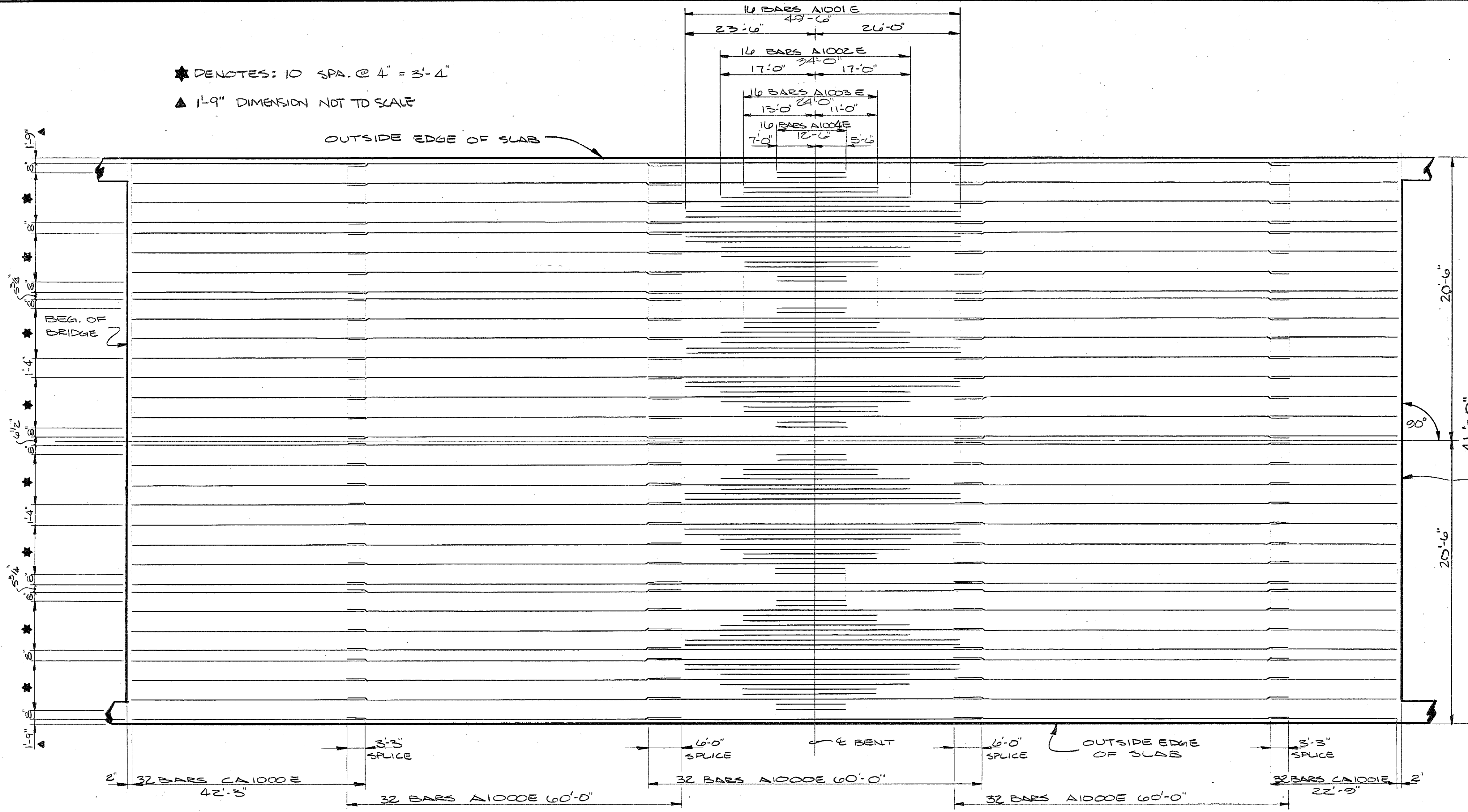
CORRECT Levellon J. Lovell
ENGINEER OF STRUCTURES
APPROVED Levellon J. Lovell
DIRECTOR OF HIGHWAYS

M-112-78

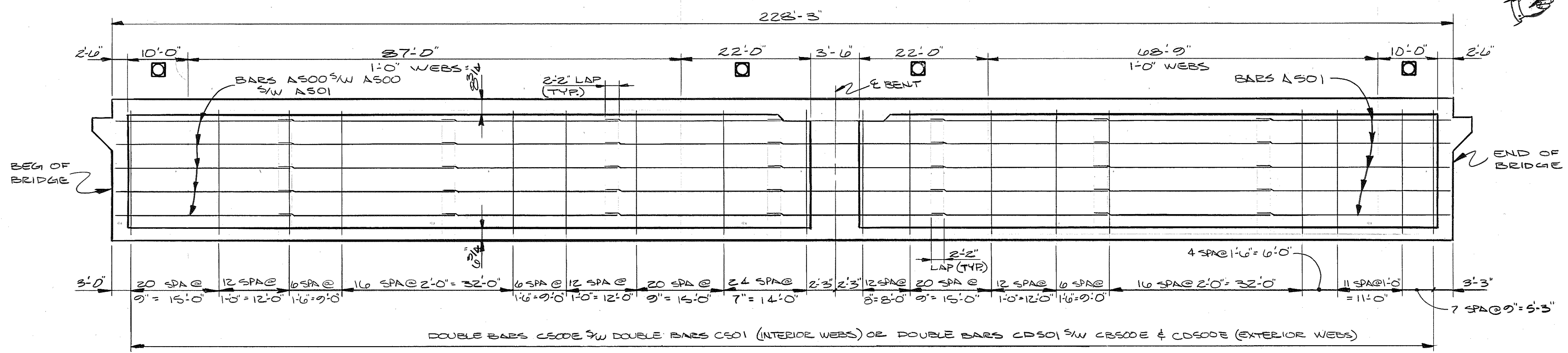
CONST NO. 19009-3142-44

PROJECT NO.	YEAR	SHEET NO.	
	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN 12 82	WRW	ADD CONSTRUCTION JOINT

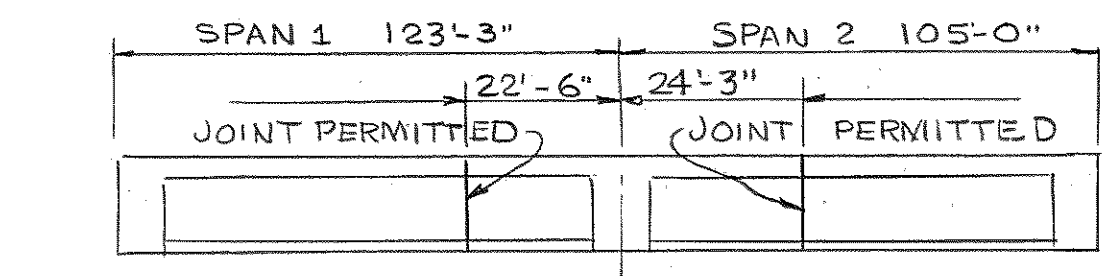
★ DENOTES: 10 SPA. @ 4" = 3'-4"
 ▲ 1'-9" DIMENSION NOT TO SCALE



PLAN OF MAIN REINFORCING STEEL - TOP SLAB



LONGITUDINAL SECTION THRU WEBS



ELEVATION SKETCH SHOWING OPTIONAL CONSTRUCTION JOINTS
 NOTE: SEE DWG. NO. M-112-77

□ DENOTES: WEBS VARY FROM 1'-0" TO 1'-3"

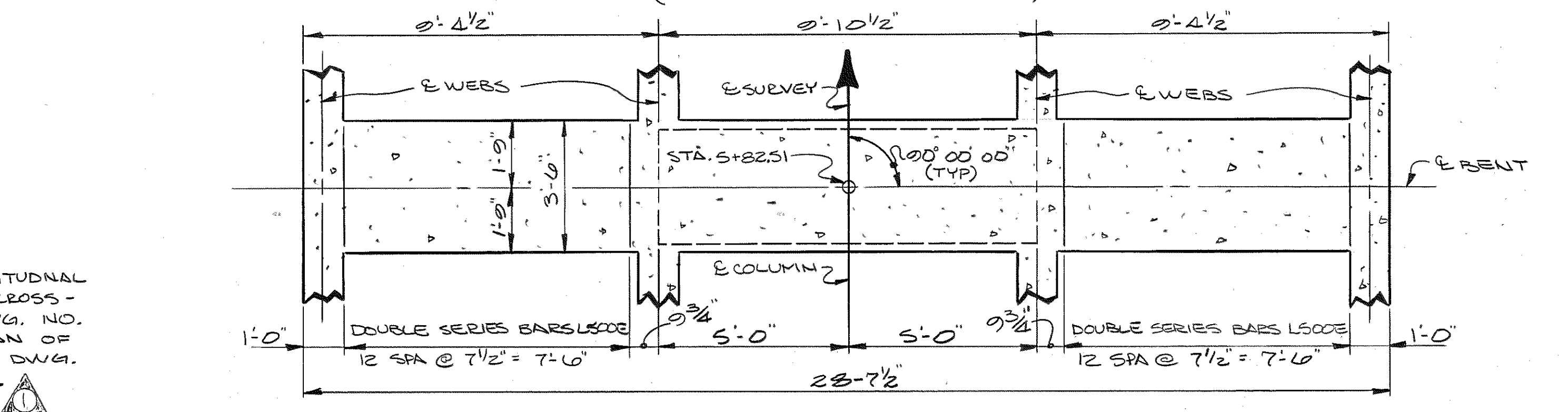
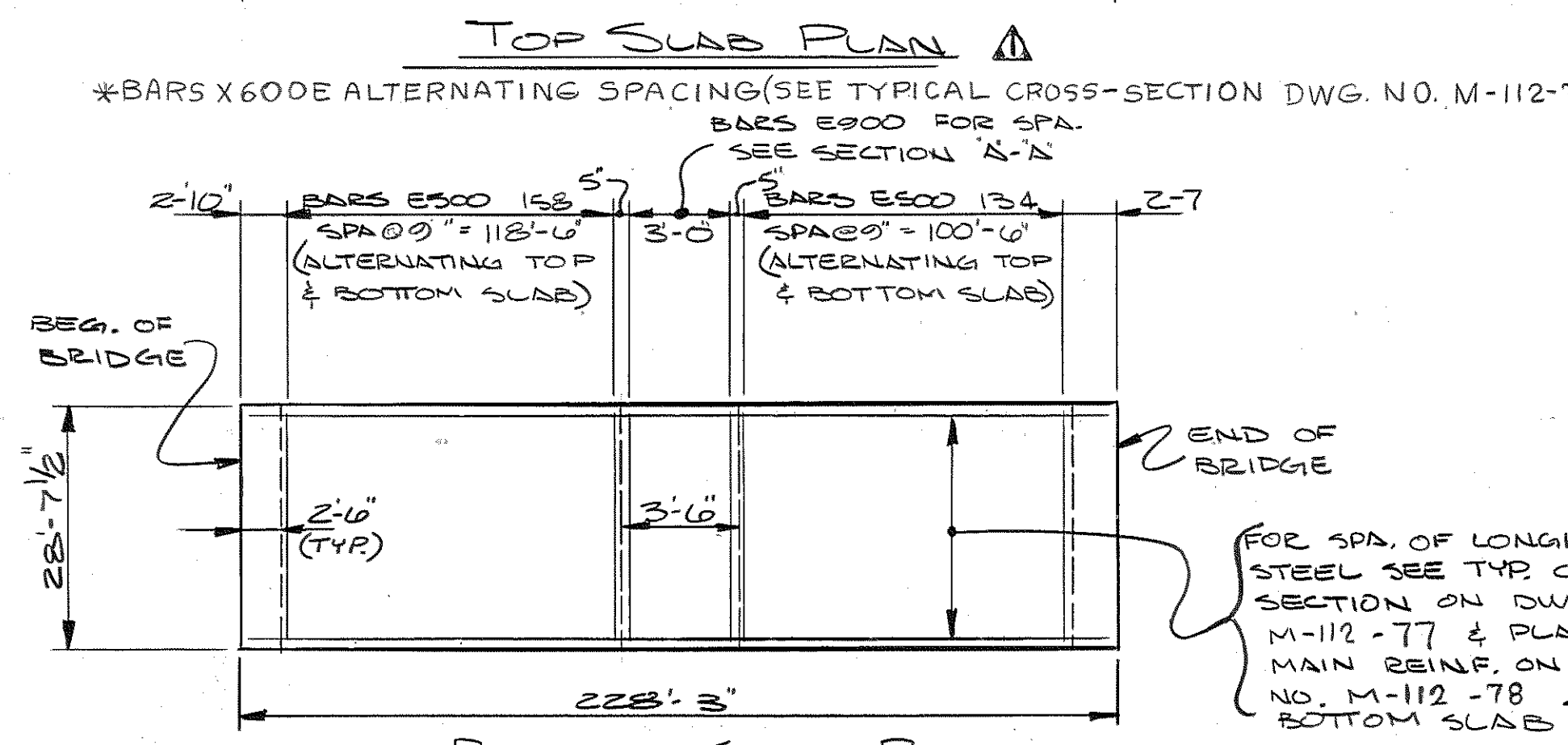
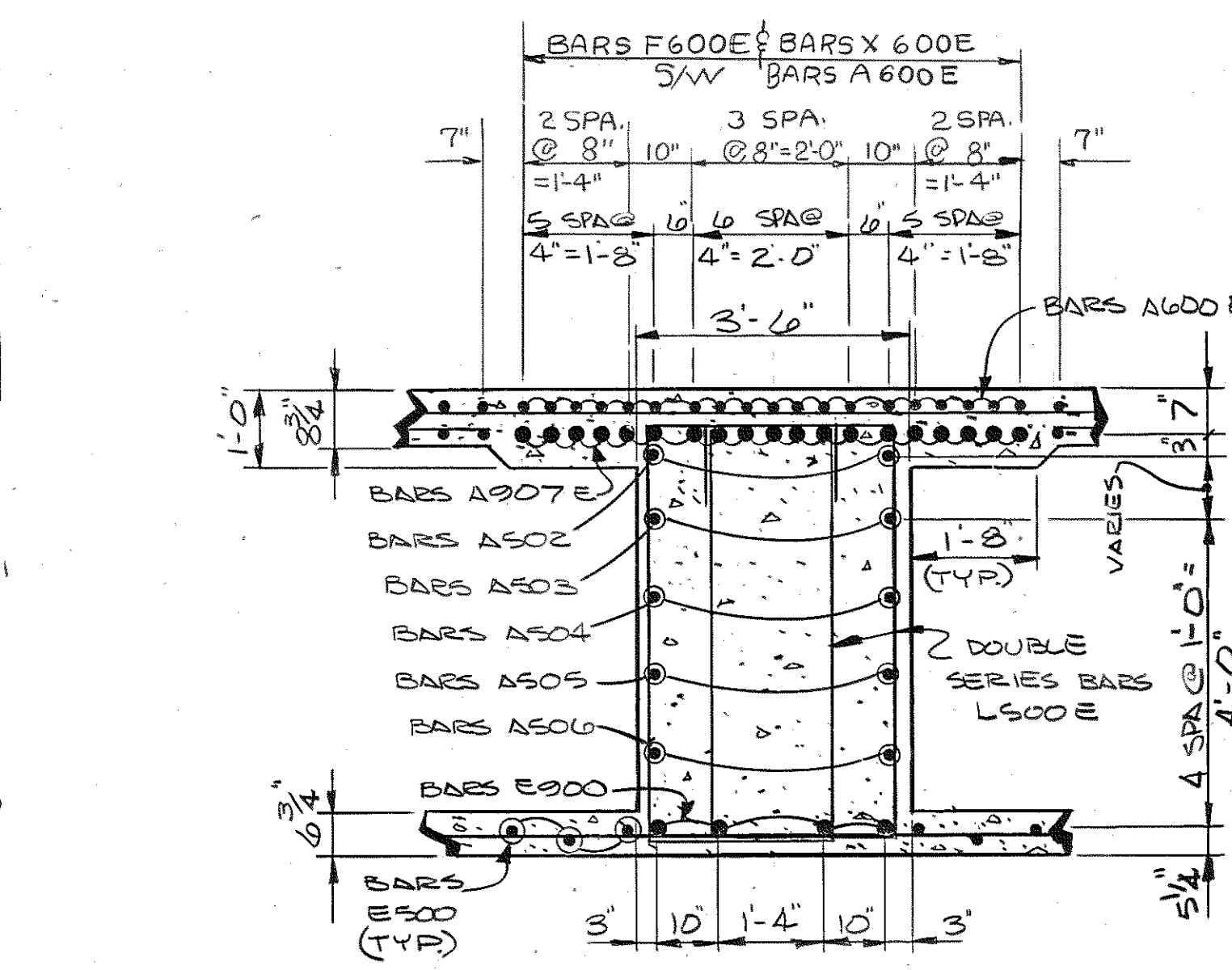
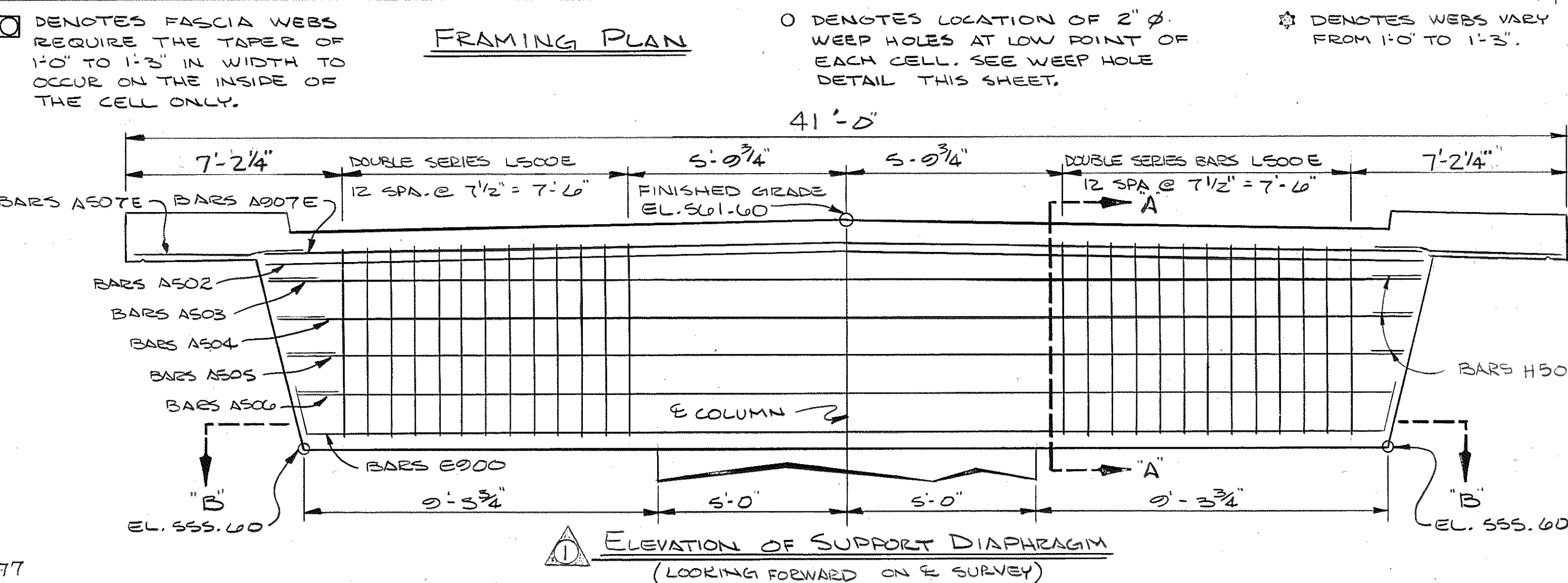
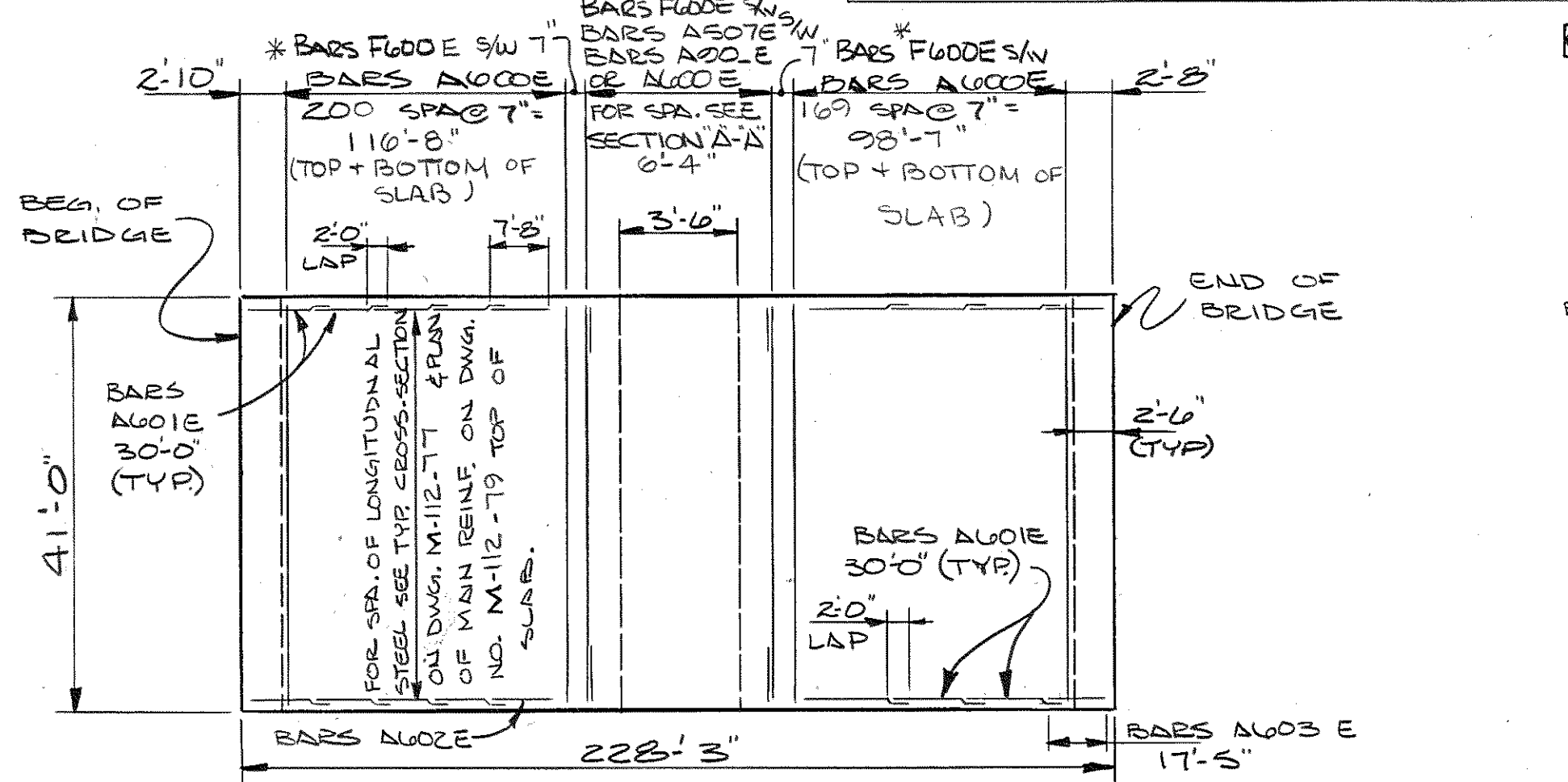
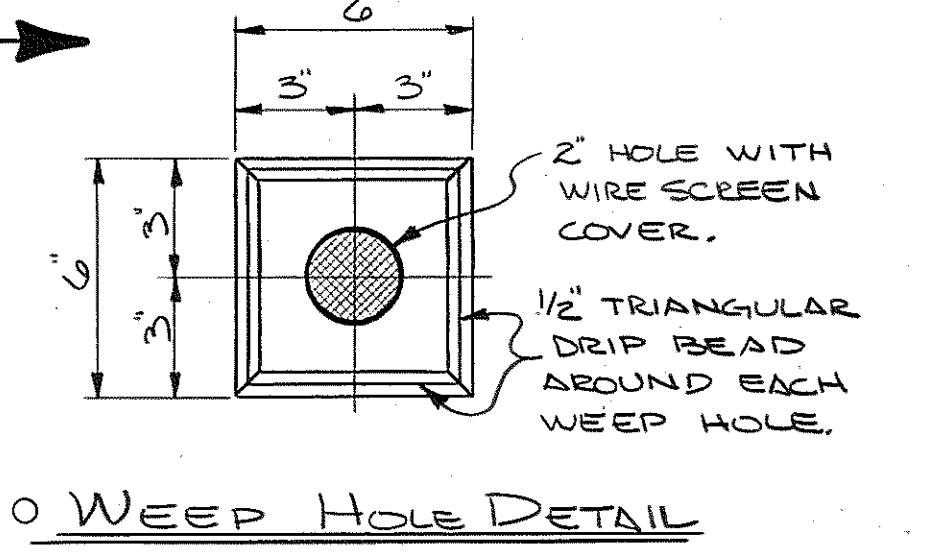
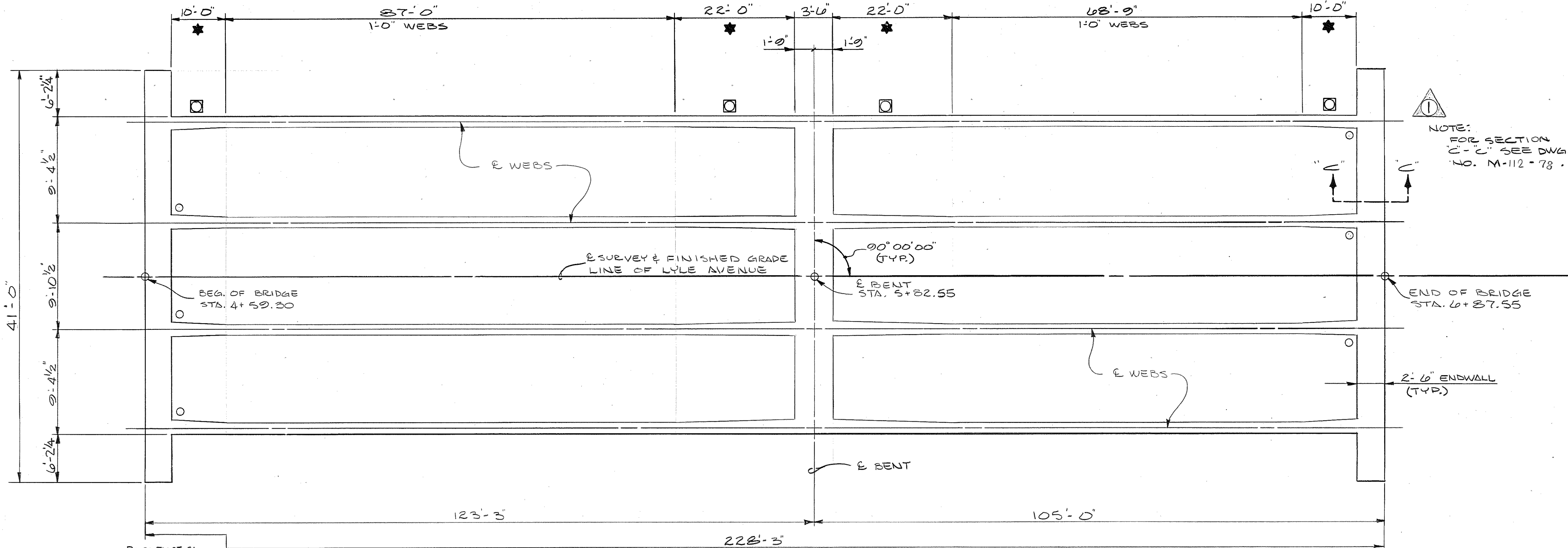
DESIGNED BY KEN LITTON DATE 10-81
 DRAWN BY K. FRANKENFELD DATE 5-82
 SUPERVISED BY J. FIELDS DATE 5-82
 CHECKED BY DATE

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 SUPERSTRUCTURE DETAILS
 LYLE AVENUE OVER
 LINE "C", LINE "G", & LINE "H" (INTERSTATE 440)
 STATION: 826+20.50
 DAVIDSON COUNTY
 1982

CORRECT *William L. Lovell*
 ENGINEER OF STRUCTURES
 APPROVED *Lewis Evans*
 DIRECTOR OF HIGHWAYS

CONST. NO. 19009-3142-44

PROJECT NO.	YEAR	SHEET NO.	
1982	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN. 12 '83	WFW	GEN. REV.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
SUPERSTRUCTURE DETAILS
LYLE AVENUE OVER
LINE C, LINE G, & LINE H (INTERSTATE 440)
STATION: 826+20.56
DAVIDSON COUNTY
1982

DESIGNED BY KEN LITTON DATE 10-81
DRAWN BY K. FRANKENFELD DATE 5-82
SUPERVISED BY J. FIELDS DATE 5-82
CHECKED BY DATE

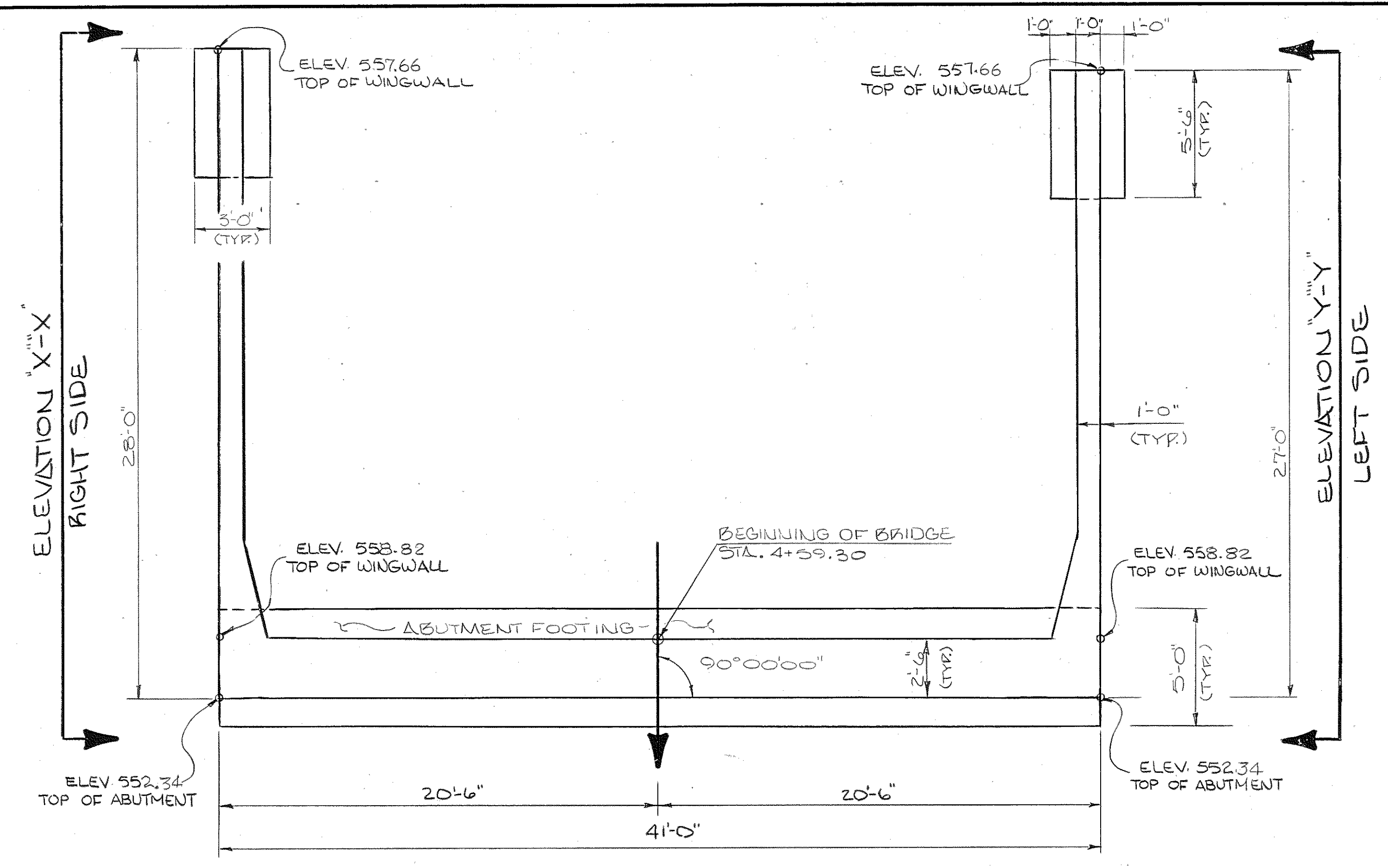
CORRECTED BY Levellon L. Lovell
ENGINEER OF STRUCTURES
APPROVED Lewis J. Jarnal
DIRECTOR OF HIGHWAYS

M-112-80

CONST. NO. 19009-3142-44

PROJECT NO.	YEAR	SHEET NO.
	1982	

REVISIONS		
NO.	DATE	BRIEF DESCRIPTION
1	1/12/83	WRW GEN. REV.
2	1/25/83	K.M.D. LIGHTING DETAILS
3	3-18-83	WRW LOWER FOOTING
4	7-26-83	WRW Reinforcing Steel 87

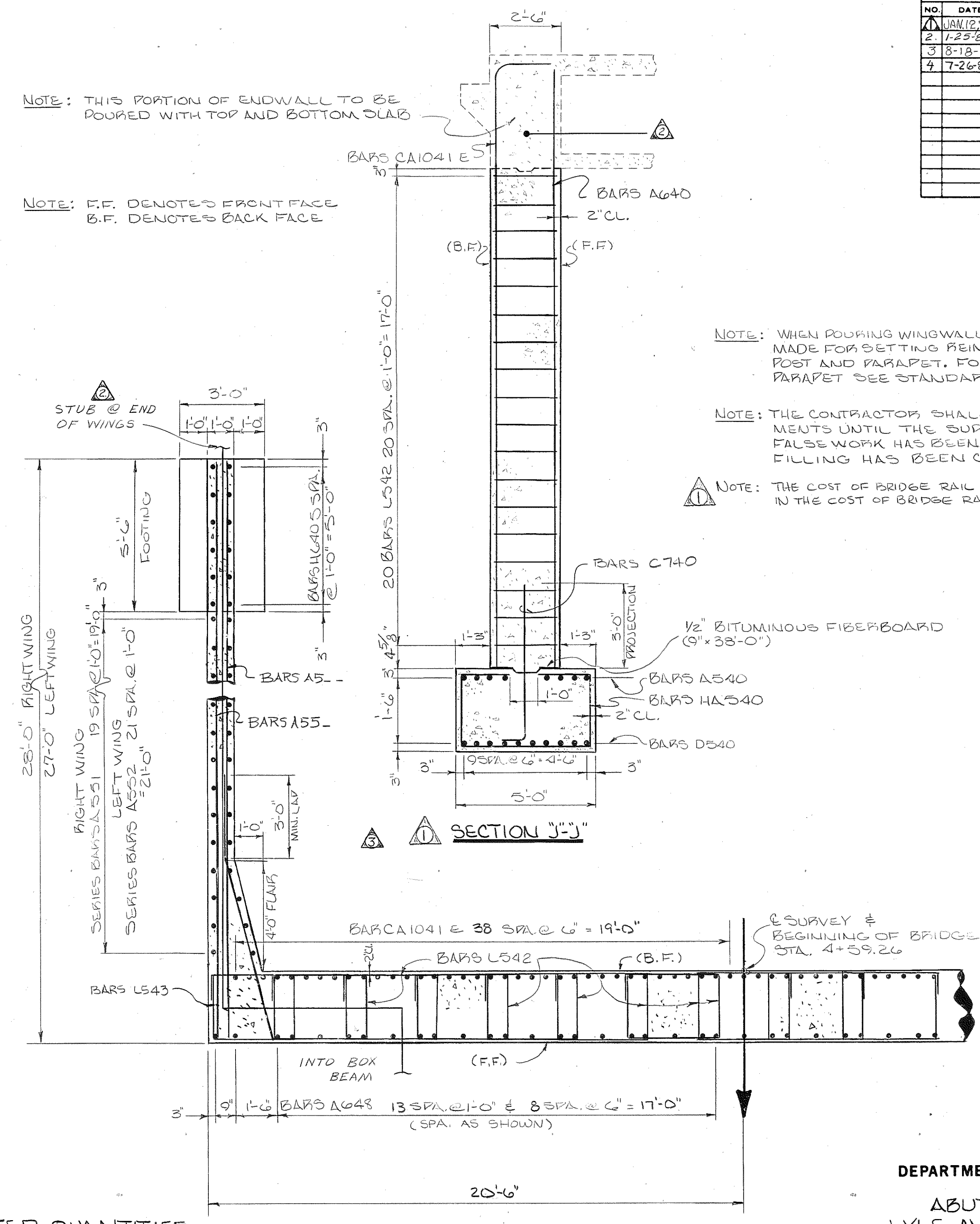


PLAN

EXCAVATION: EXCAVATE TO ROCK (ELEV. 533.0) AND GET DEPARTMENT OF SOILS & GEOLOGY TO EXAMINE THE ROCK AND DETERMINE IF FURTHER EXCAVATION IS REQUIRED.

NOTE: THIS PORTION OF ENDWALL TO BE POURED WITH TOP AND BOTTOM SLAB

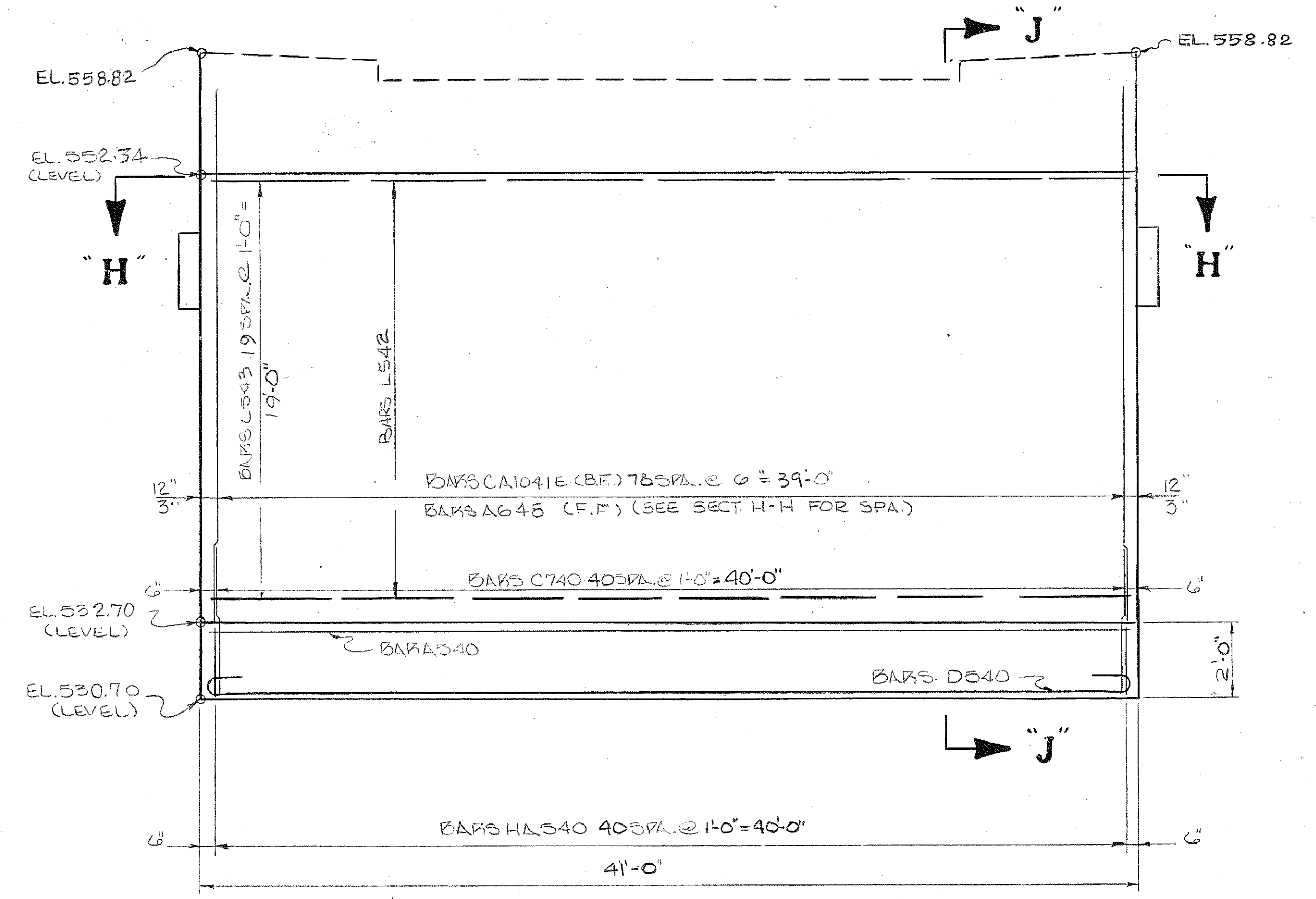
NOTE: F.F. DENOTES FRONT FACE
B.F. DENOTES BACK FACE



NOTE: WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WING-POST AND PARAPET. FOR DETAILS OF WINGPOST AND PARAPET SEE STANDARD DRAWING NO. M-38-162.

NOTE: THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSE WORK HAS BEEN REMOVED AND BACK-FILLING HAS BEEN COMPLETED.

NOTE: THE COST OF BRIDGE RAIL AND POST IS TO BE INCLUDED IN THE COST OF BRIDGE RAIL SYSTEM.



ELEVATION H-H
(LOOKING BACK ON SURVEY)

ESTIMATED QUANTITIES

ITEM	CLASS "A" CONCRETE C.Y.	REINFORCING STEEL LBS.	EPOXY COATED REINFORCING STEEL LBS.
ABUT. NO. 1	112.5	9976	6269

SECTION H-H

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
ABUTMENT NO. 1 DETAILS
LYLE AVENUE OVER LINE C, LINE G,
& LINE H (INTERSTATE 440)
STATION 826+20.56
DAVIDSON COUNTY
1982

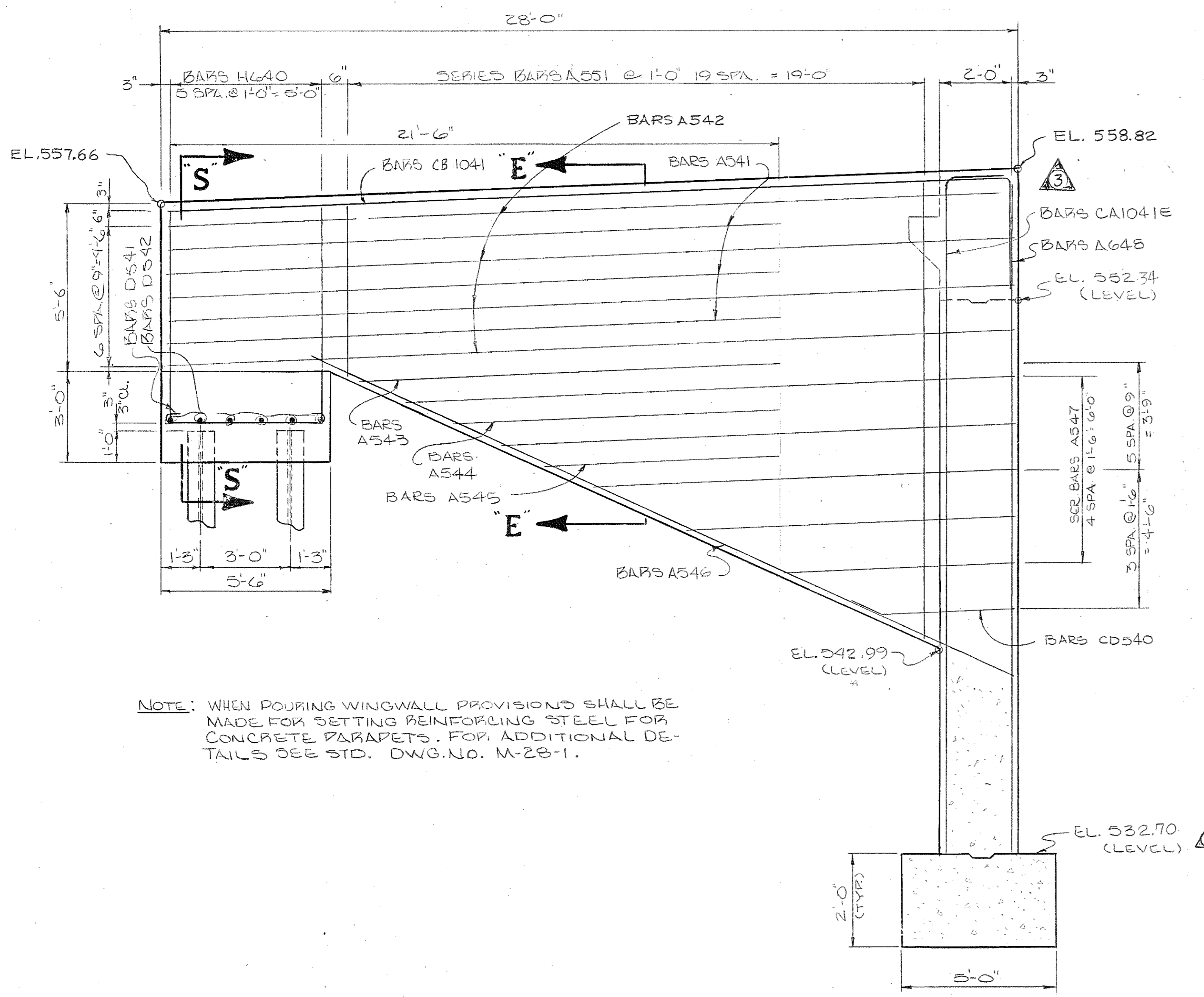
DESIGNED BY: KEN LITTON
DRAWN BY: J.A. HILL JR.
SUPERVISED BY: FIELDS & WOODS
CHECKED BY:

DATE: 10-81
DATE: 3-82
DATE: 3-82
DATE:

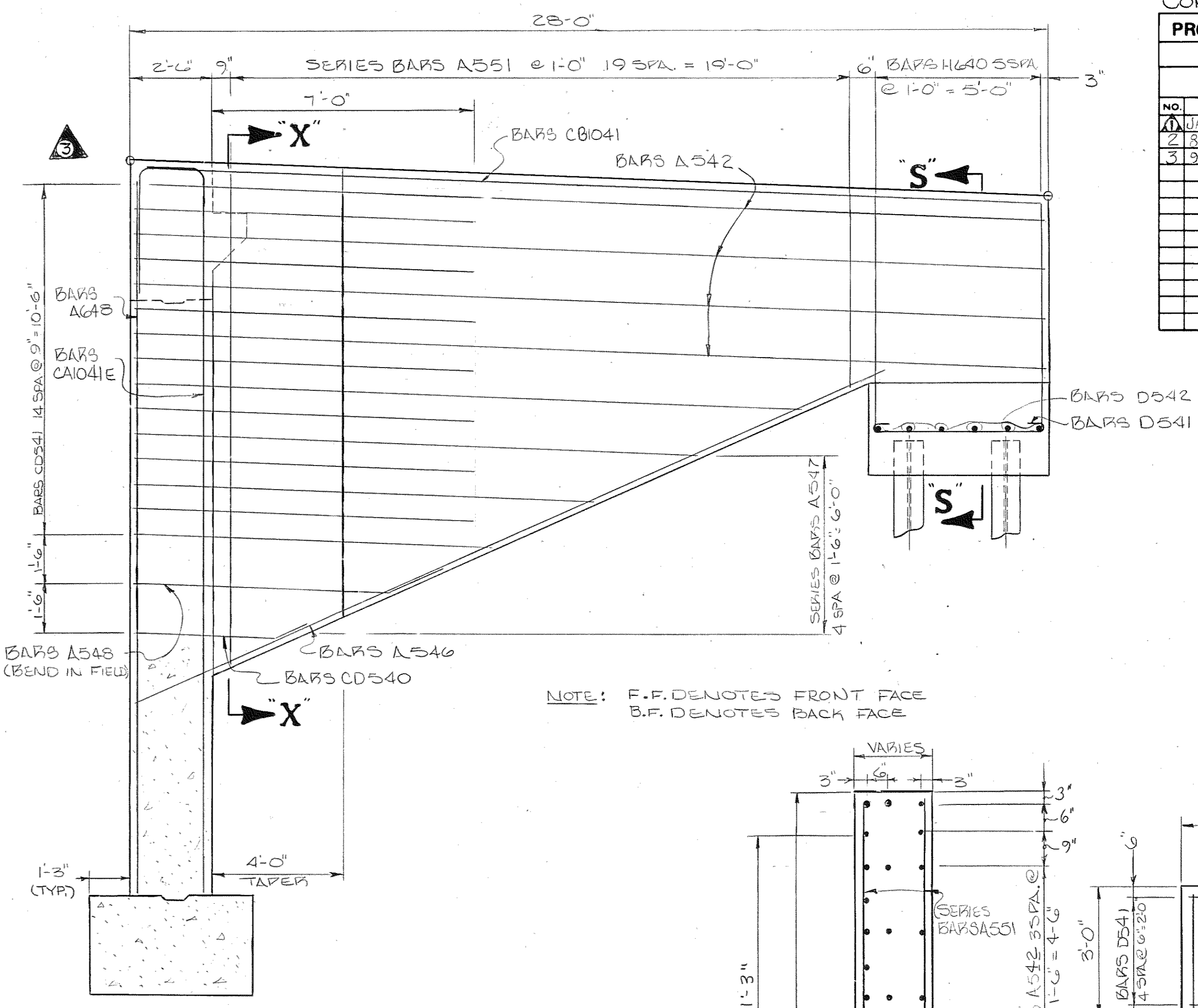
CORRECT: *William L. Lowell*
ENGINEER OF STRUCTURES
APPROVED: *Lewis Evans*
DIRECTOR OF HIGHWAYS

M-112-81

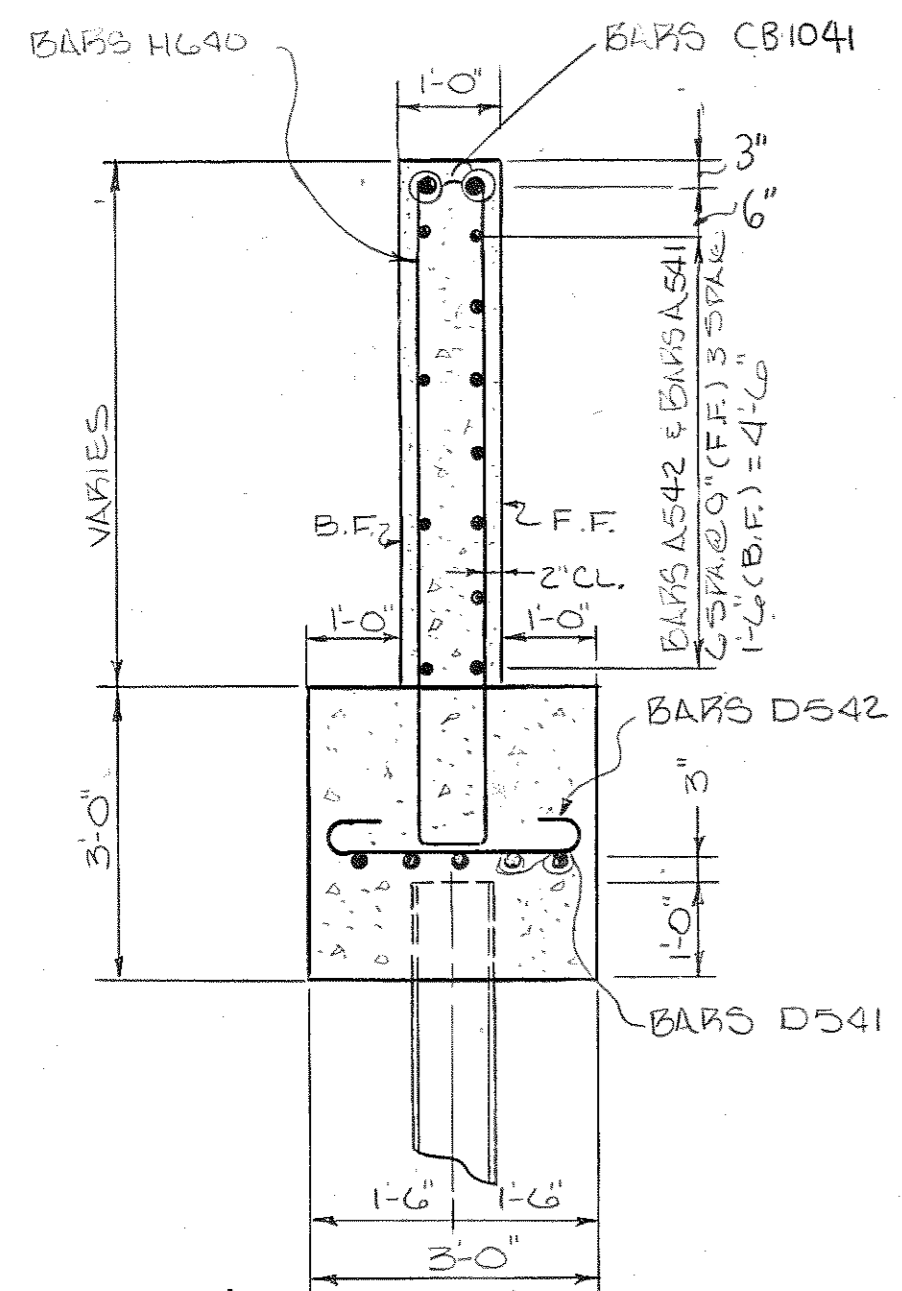
CONST. NO. 19009-3142-44			
PROJECT NO.	YEAR	SHEET NO.	
	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN 23 1983	WRW	GEN. REV
2	3-18-83	WRW	ELEVATION
3	9-22-83	WRW	BAR CA1041E



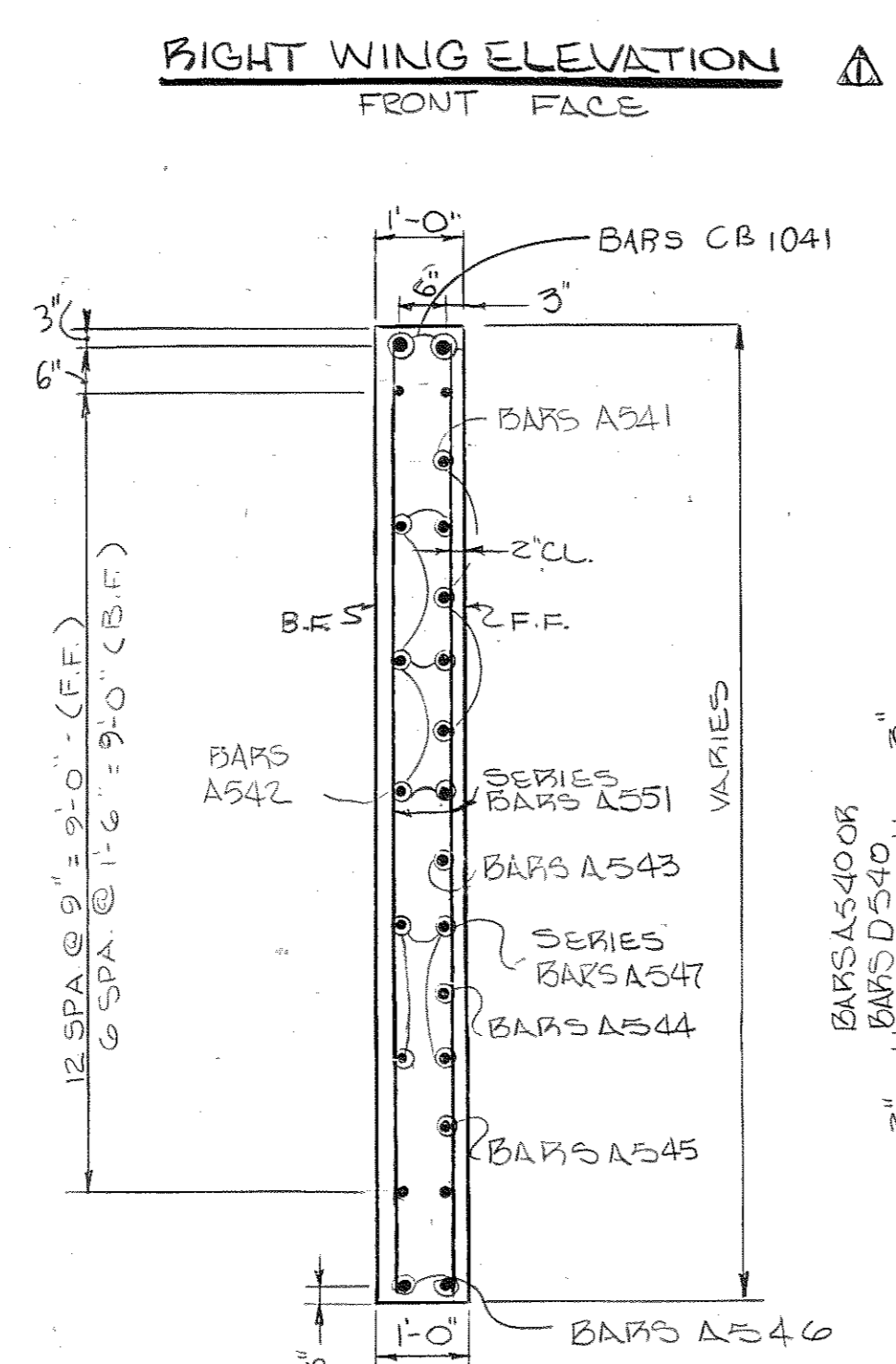
NOTE: WHEN POURING WINGWALL PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR CONCRETE PARAPETS. FOR ADDITIONAL DETAILS SEE STD. DWG. NO. M-28-1.



NOTE: F.F. DENOTES FRONT FACE
B.F. DENOTES BACK FACE



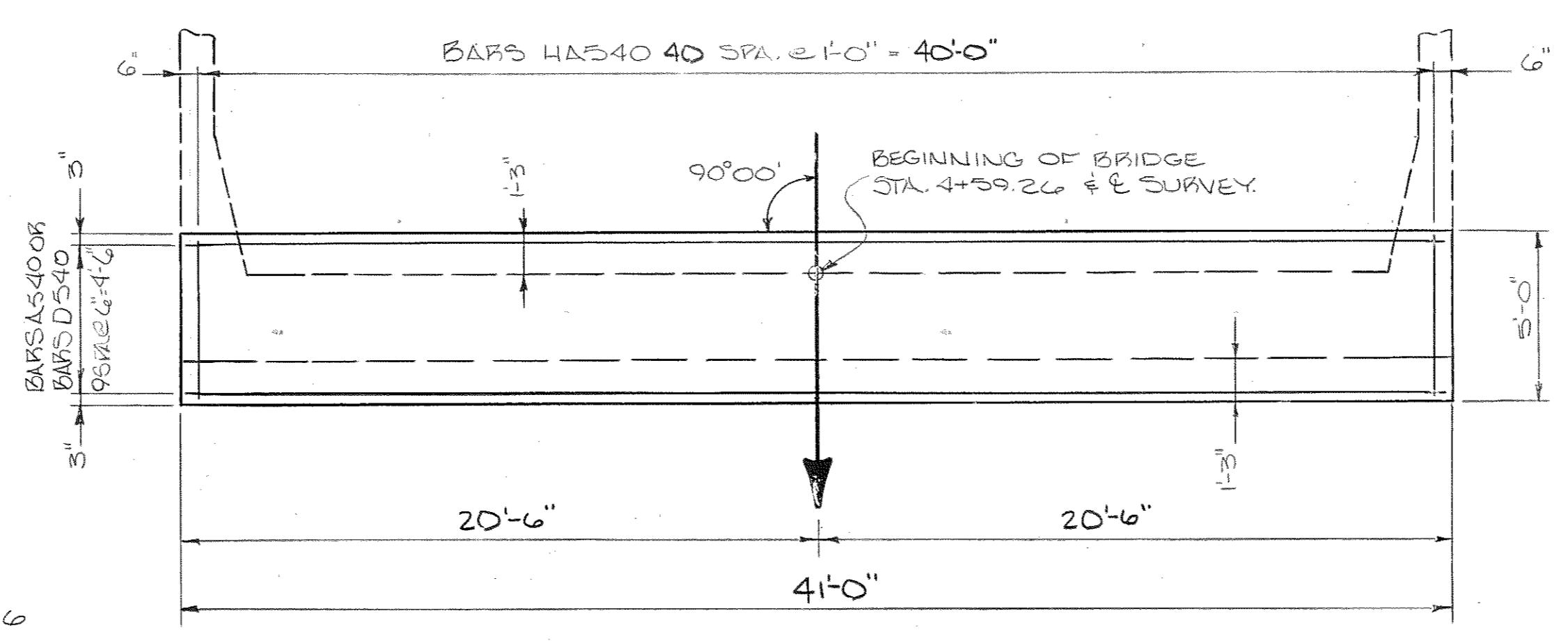
SECTION "S-S"



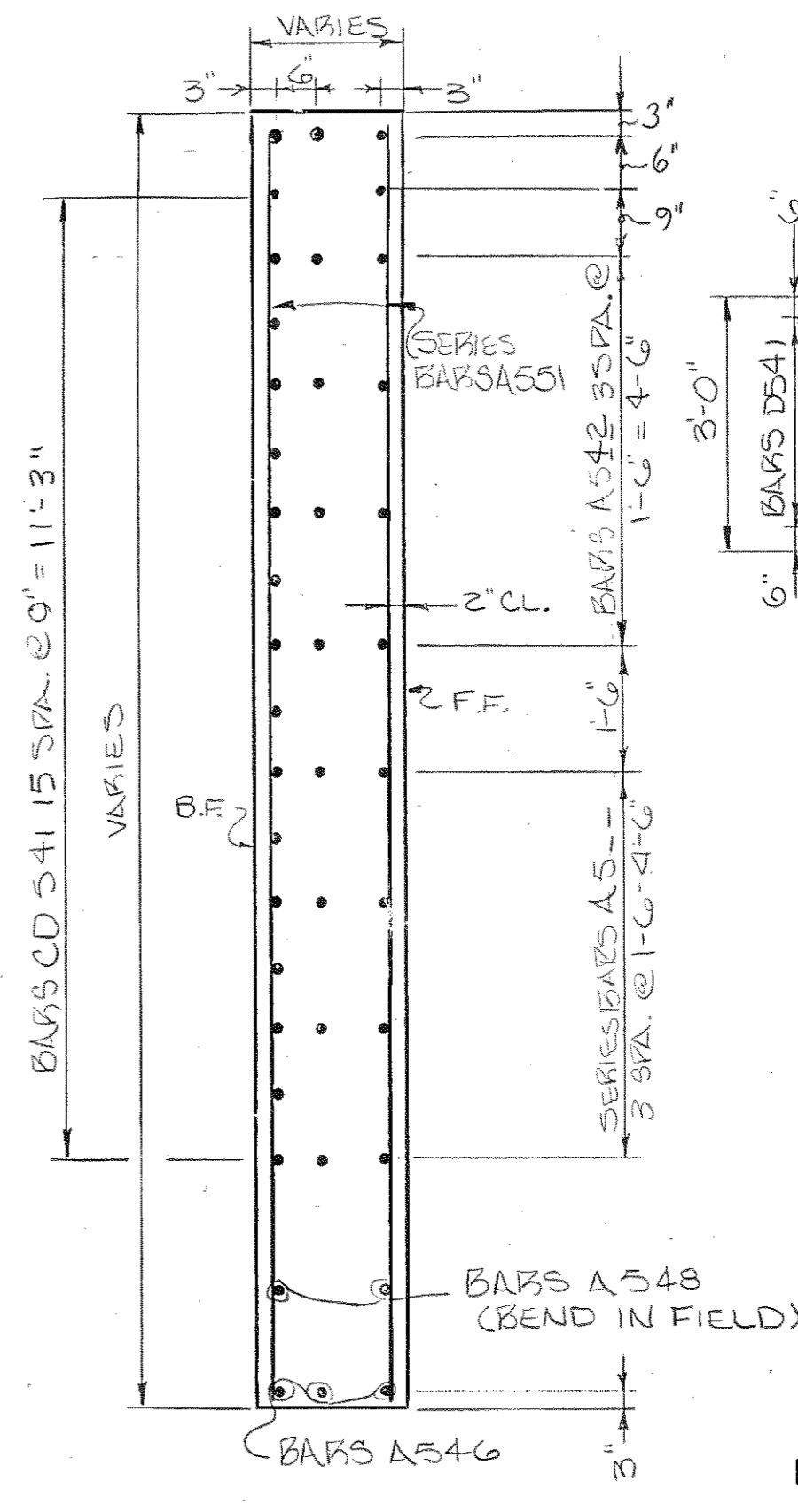
SECTION "E-E"



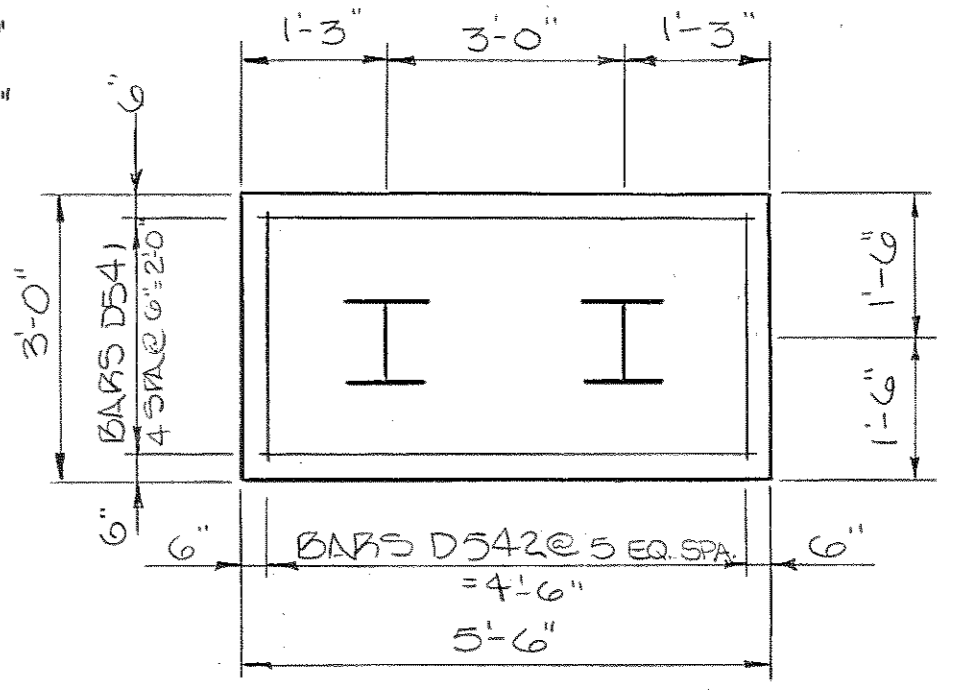
RIGHT WING ELEVATION BACK FACE



PLAN OF FOOTING



SECTION "X-X"



PLAN OF WING FOOTING

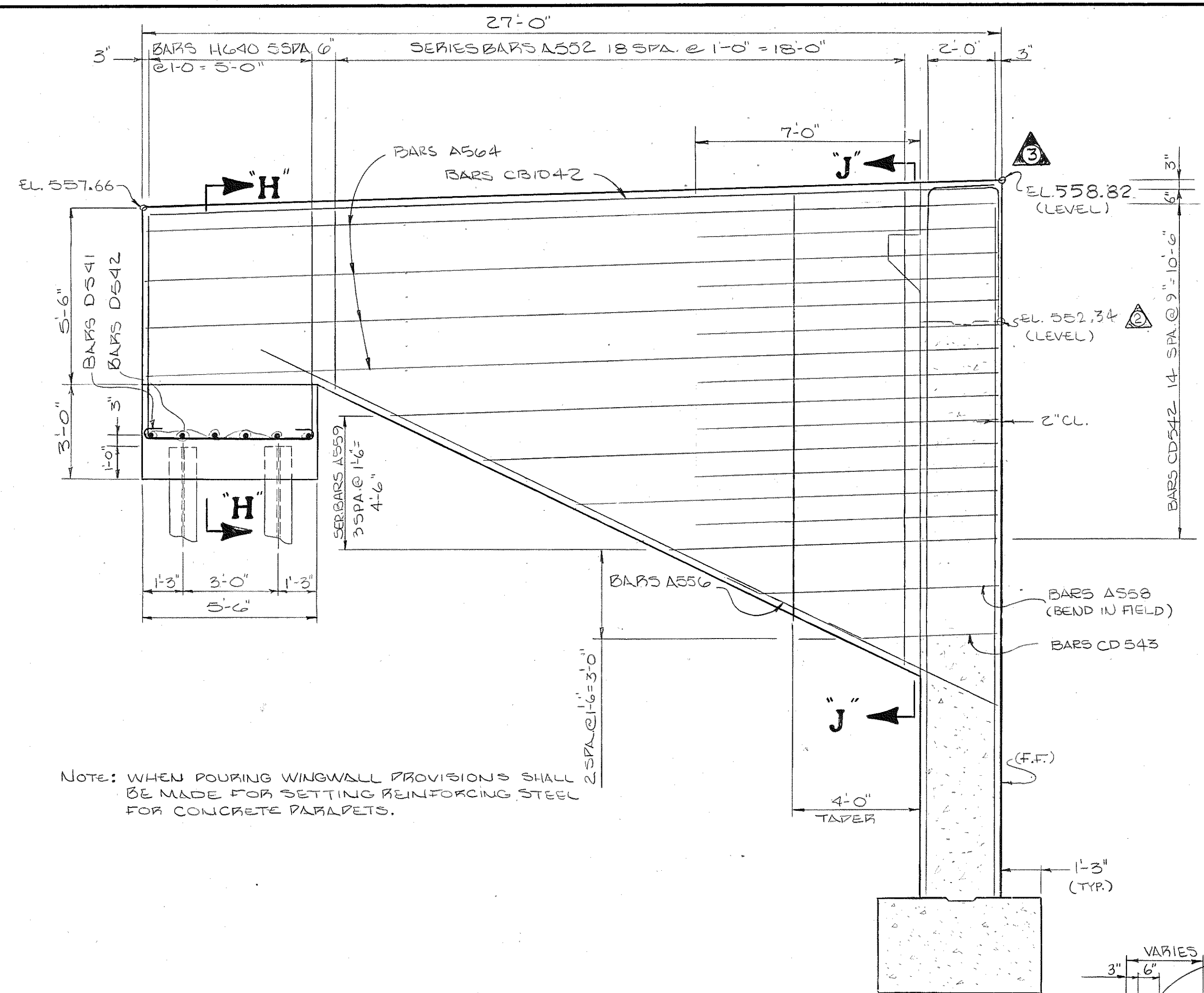
DESIGNED BY KEN LITTON DATE 10-81
 DRAWN BY J.A. HILL JR. DATE 3-82
 SUPERVISED BY FIELDS & WOODS DATE 3-82
 CHECKED BY DATE

CORRECT *William L. Lovell*
 ENGINEER OF STRUCTURES
 APPROVED *Lewis Evans*
 DIRECTOR OF HIGHWAYS

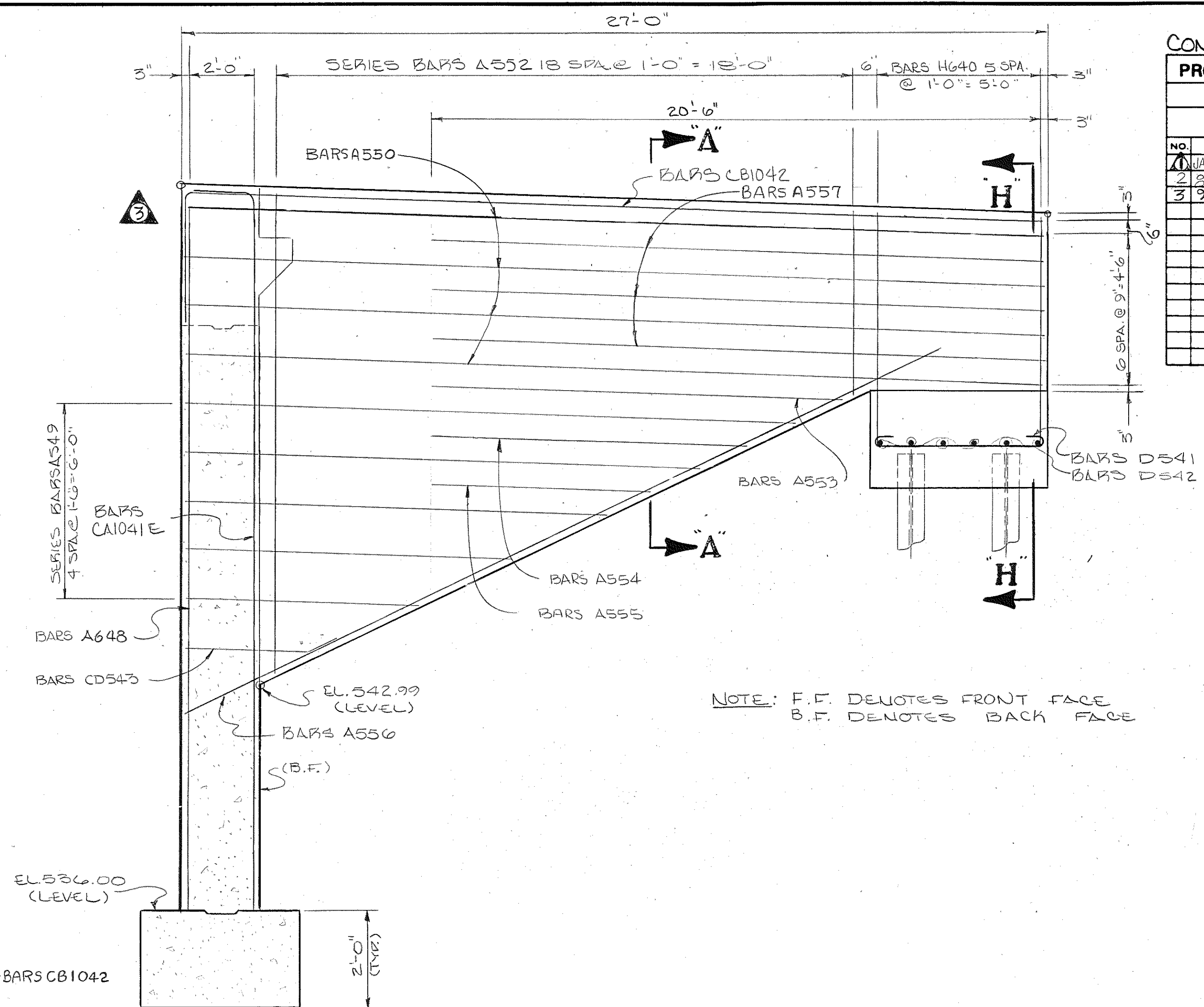
STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 ABUTMENT NO. 1 DETAILS
 LYLE AVENUE OVER B LINE 'C', LINE 'G',
 & LINE 'H' (INTERSTATE 440)
 STATION 826+20.56
 DAVIDSON COUNTY
 1982

M-112-82

CONST. NO. 19009-3142-44			
PROJECT NO.	YEAR	SHEET NO.	
	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	10-12-81	WRW	GEN. REV.
2	2-18-83	WRW	FILED
3	9-22-83	WRW	BAR# CA1041E



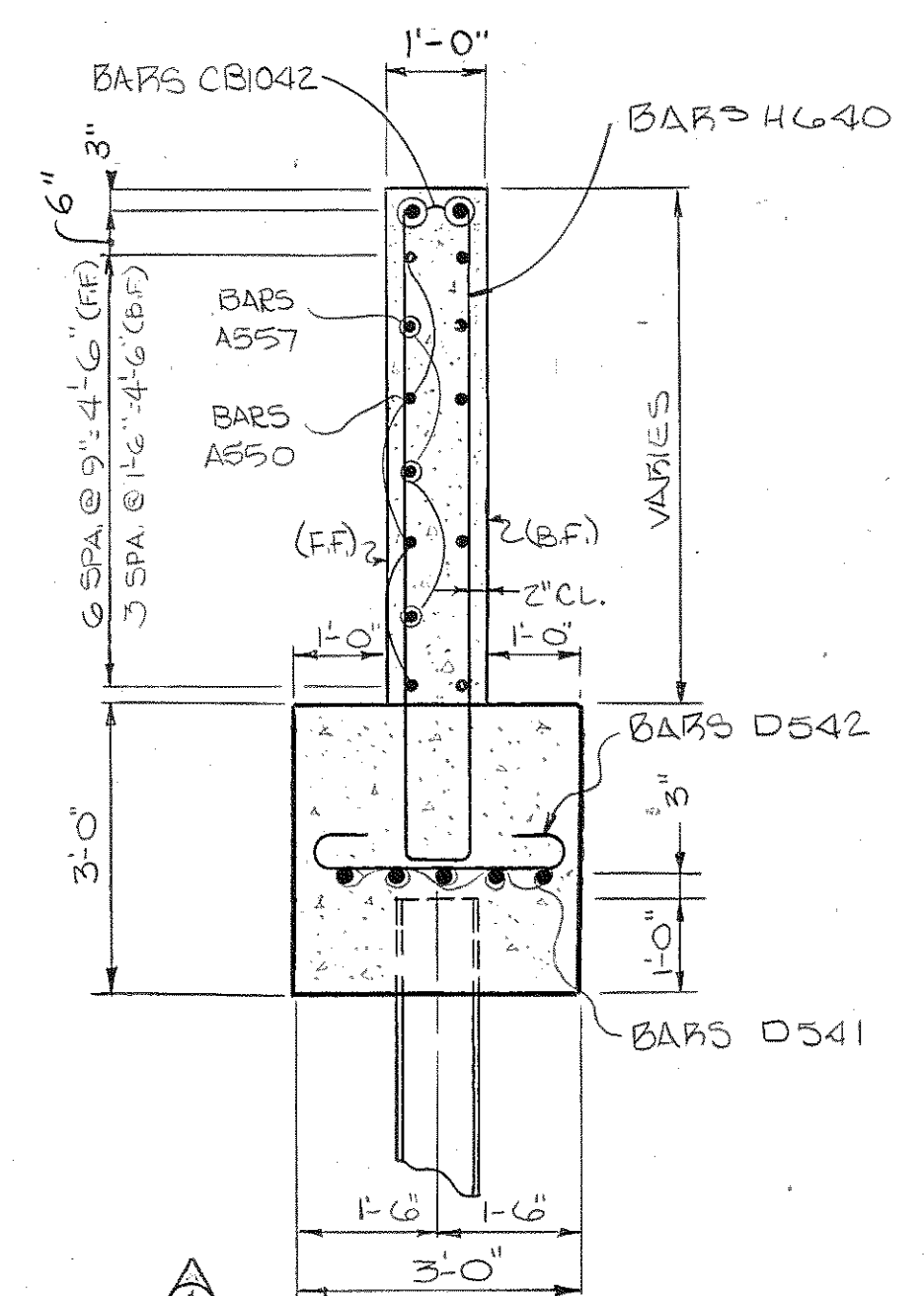
NOTE: WHEN POURING WINGWALL PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR CONCRETE PARAPETS.



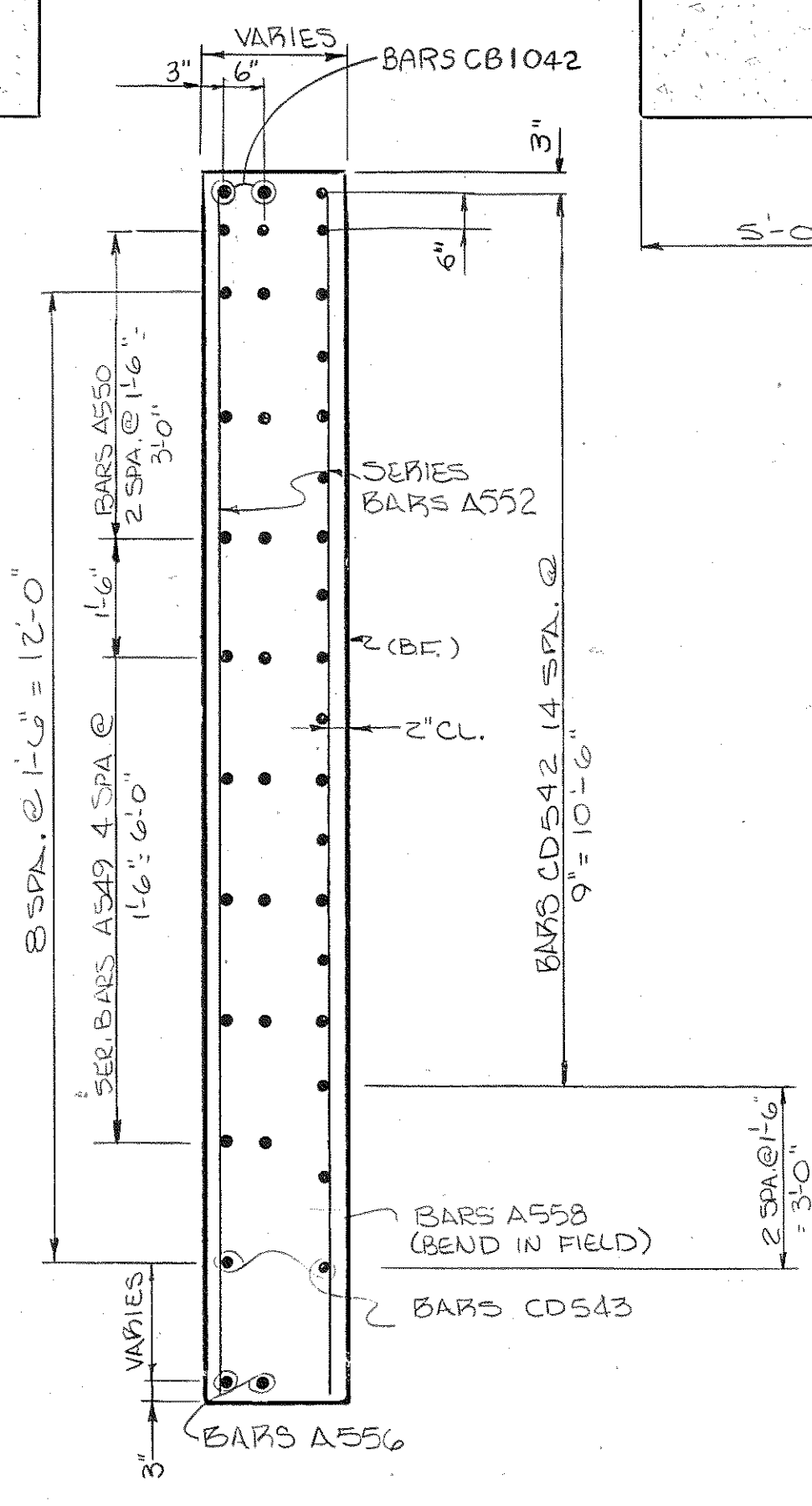
NOTE: F.F. DENOTES FRONT FACE
B.F. DENOTES BACK FACE

LEFT WING ELEVATION Δ
BACK FACE

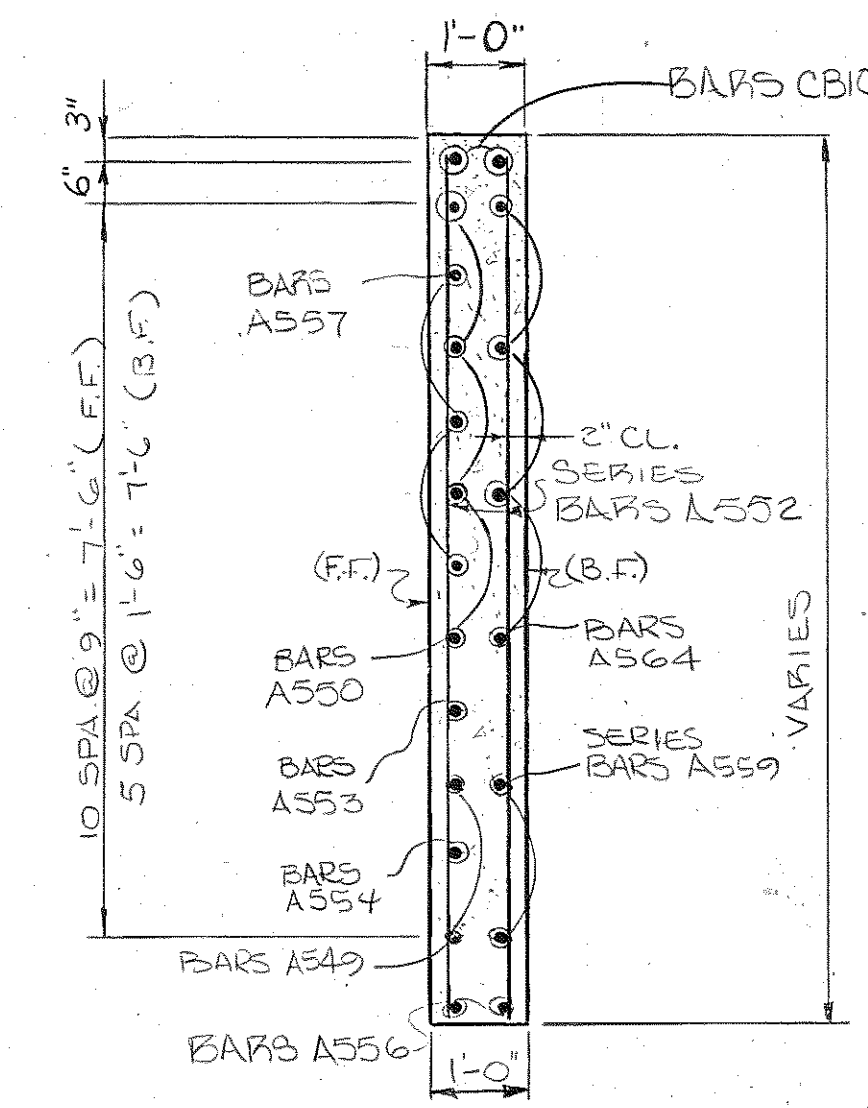
LEFT WING ELEVATION Δ
FRONT FACE



SECTION "H-H" Δ



SECTION "J-J" Δ



SECTION "A-A" Δ

DESIGNED BY KEN LITTON DATE 10-81
DRAWN BY J.A. HILL JR. DATE 4-82
SUPERVISED BY FIELDS & WOODS DATE 4-82
CHECKED BY DATE

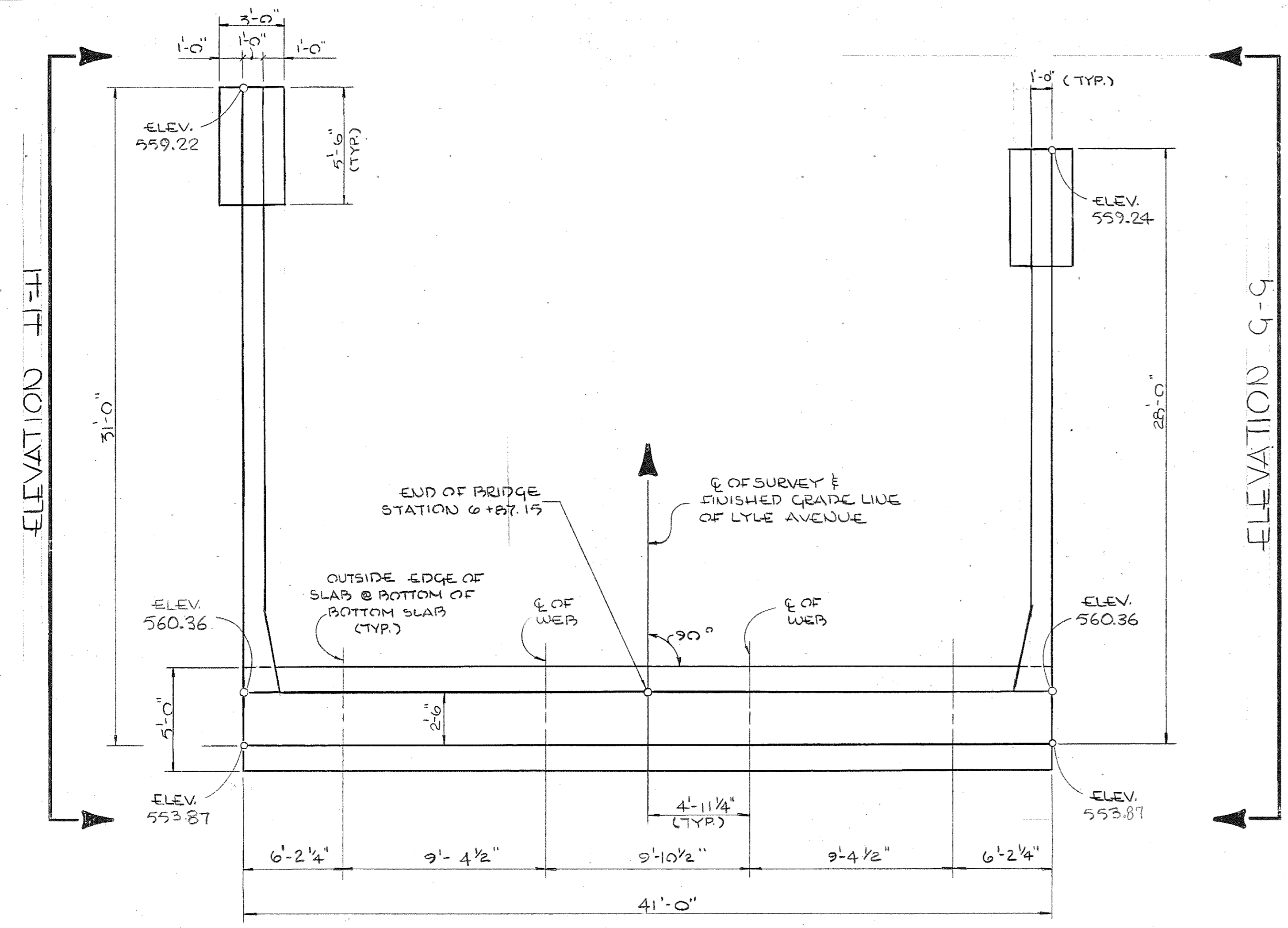
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
ABUTMENT NO. 1 DETAILS
LYLE AVENUE OVER B LINE "C", LINE "G",
& LINE "H" (INTERSTATE 440)
STATION 826+20.56
DAVIDSON COUNTY
1982

CORRECT *Chilton & Small*
ENGINEER OF STRUCTURES
APPROVED *Louis Evans*
DIRECTOR OF HIGHWAYS

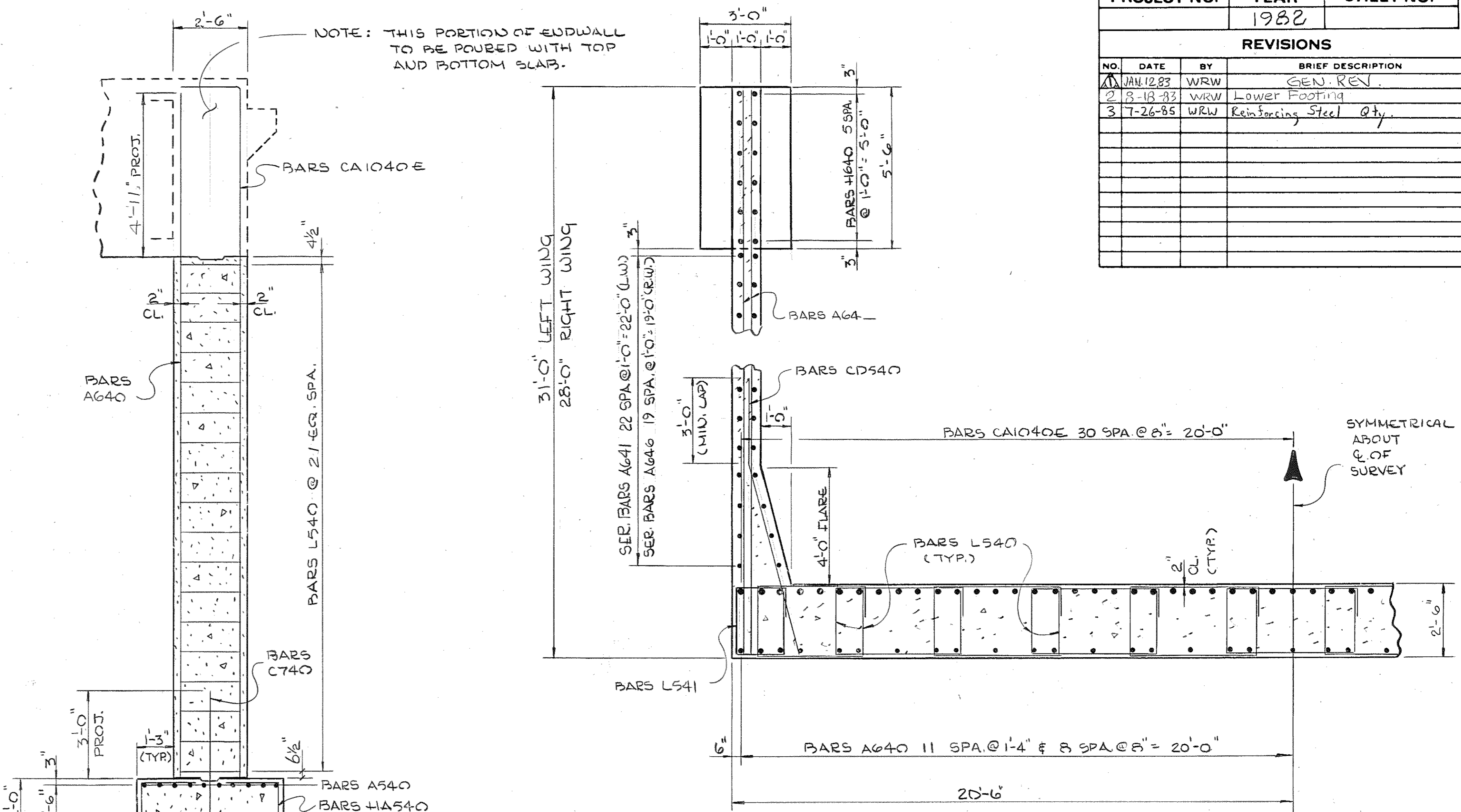
M-112-83

PROJECT NO.	YEAR	SHEET NO.
	1982	

REVISIONS		
NO.	DATE	BRIEF DESCRIPTION
1	JAN 12 82	WRW GEN. REN.
2	B-13-82	WRW Lower Footing
3	7-26-85	WRW Reinforcing Steel Qty.



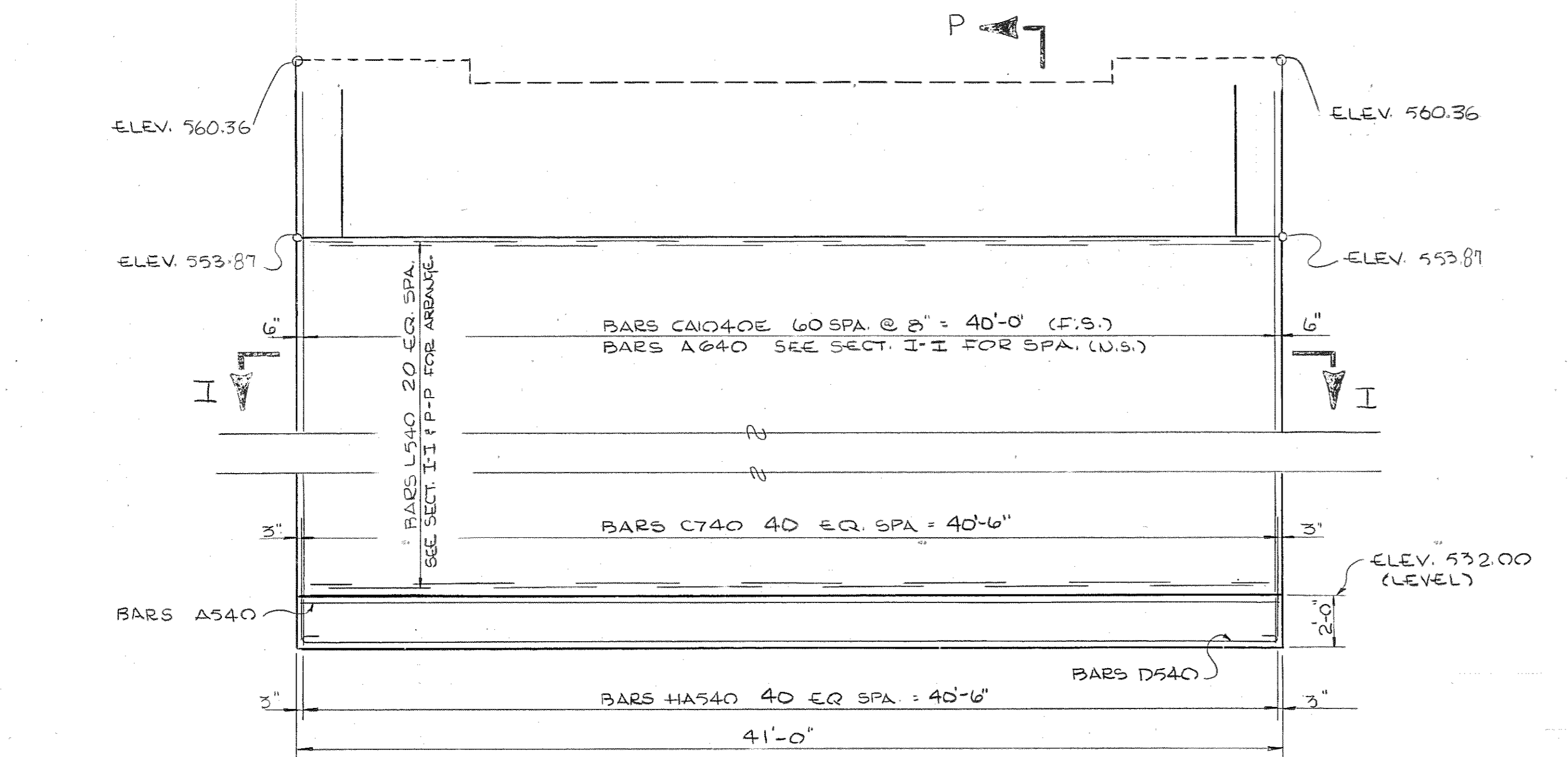
PLAN



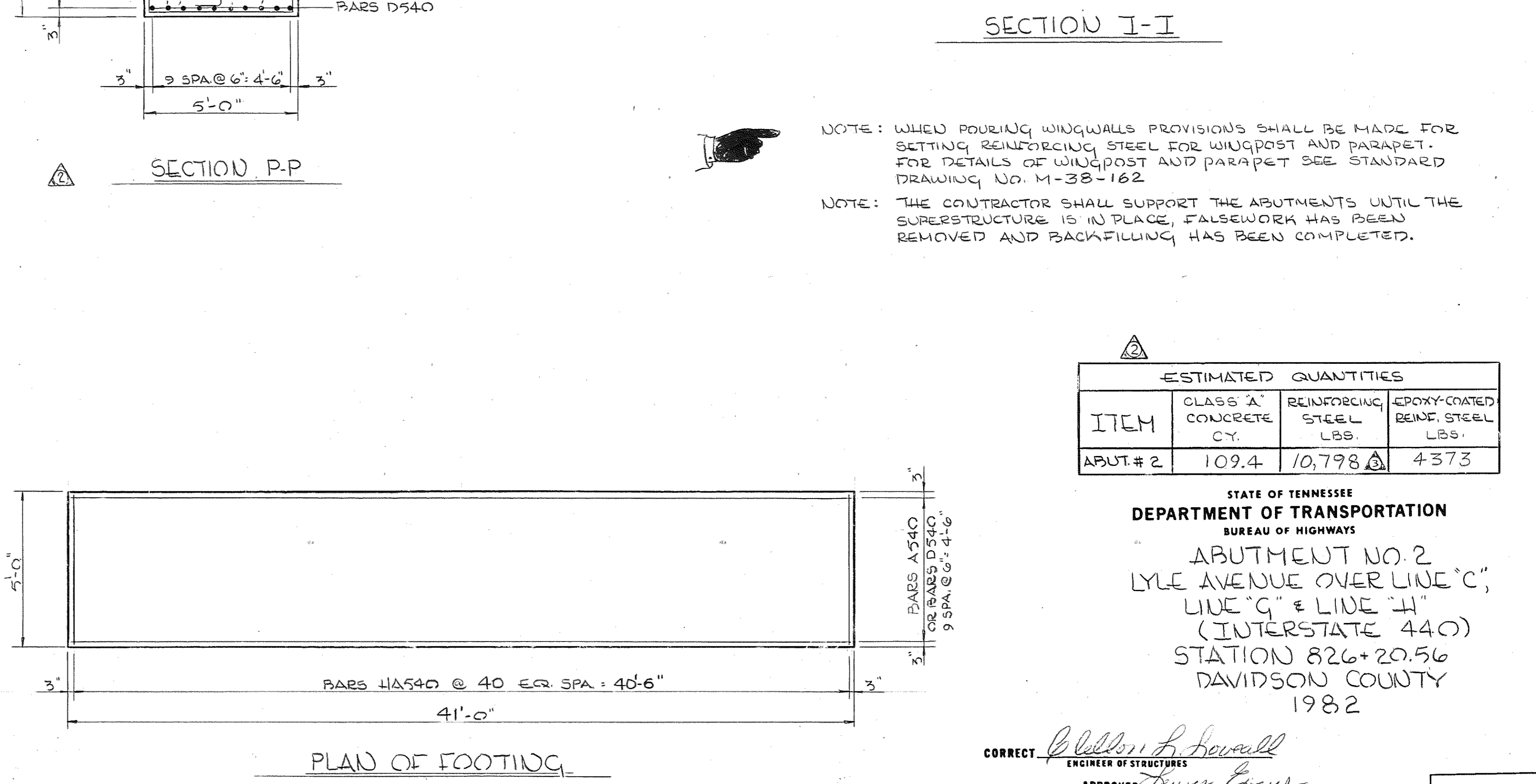
SECTION I-I

NOTE: WHEN POURING WINGWALLS PROVISIONS SHALL BE MADE FOR SETTING REINFORCING STEEL FOR WINGPOST AND PARAPET. FOR DETAILS OF WINGPOST AND PARAPET SEE STANDARD DRAWING NO. M-38-162

NOTE: THE CONTRACTOR SHALL SUPPORT THE ABUTMENTS UNTIL THE SUPERSTRUCTURE IS IN PLACE, FALSEWORK HAS BEEN REMOVED AND BACKFILLING HAS BEEN COMPLETED.



ELEVATION P-P (LOOKING FORWARD ON SURVEY)



PLAN OF FOOTING

ESTIMATED QUANTITIES			
ITEM	CLASS 'A' CONCRETE CY.	REINFORCING STEEL LBS.	EPHOXY-COATED REINF. STEEL LBS.
ABUT.# 2	109.4	10,798	4373

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 ABUTMENT NO. 2
 LYLE AVENUE OVER LINE 'C',
 LINE 'G' & LINE 'H'
 (INTERSTATE 440)
 STATION 826+20.56
 DAVIDSON COUNTY
 1982

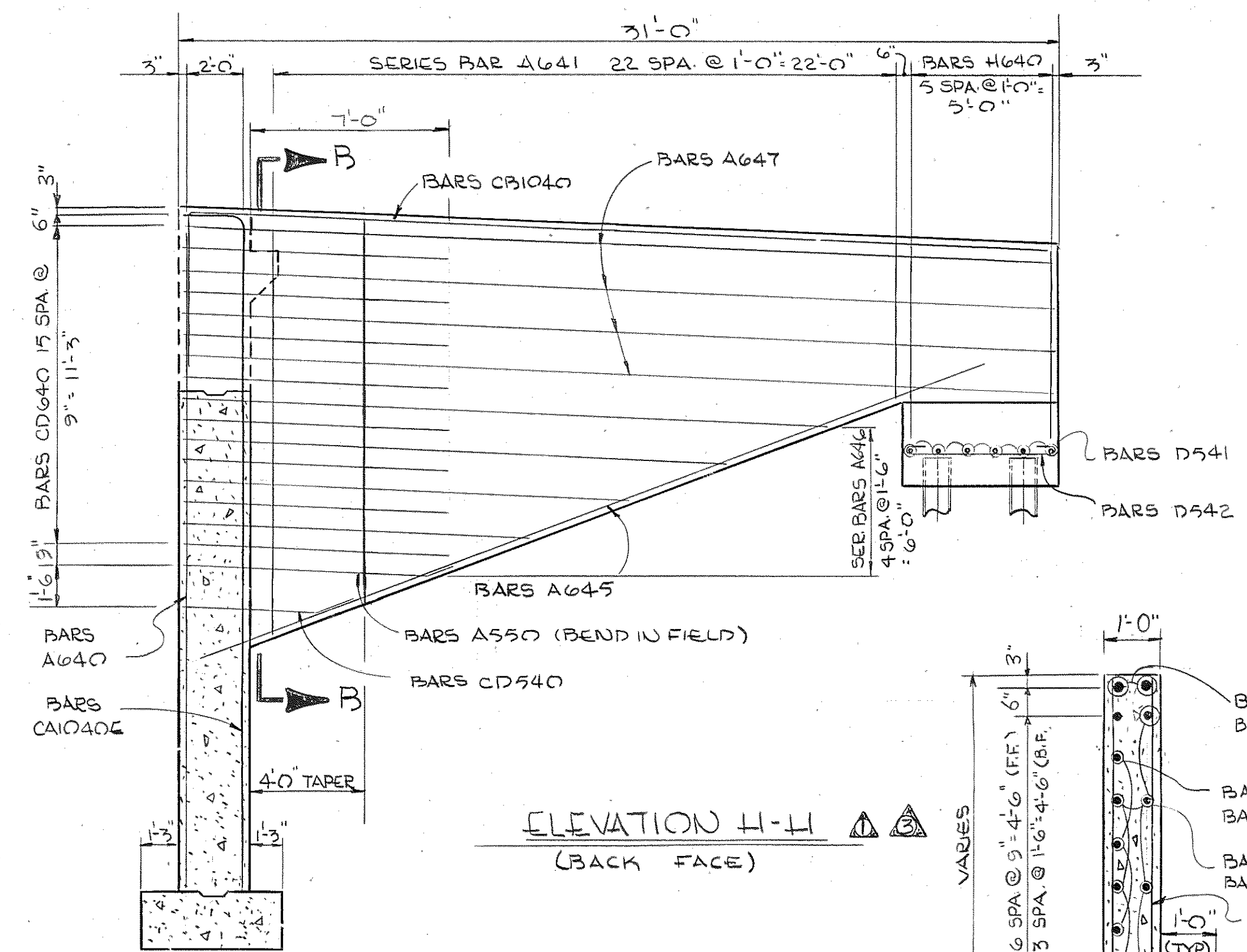
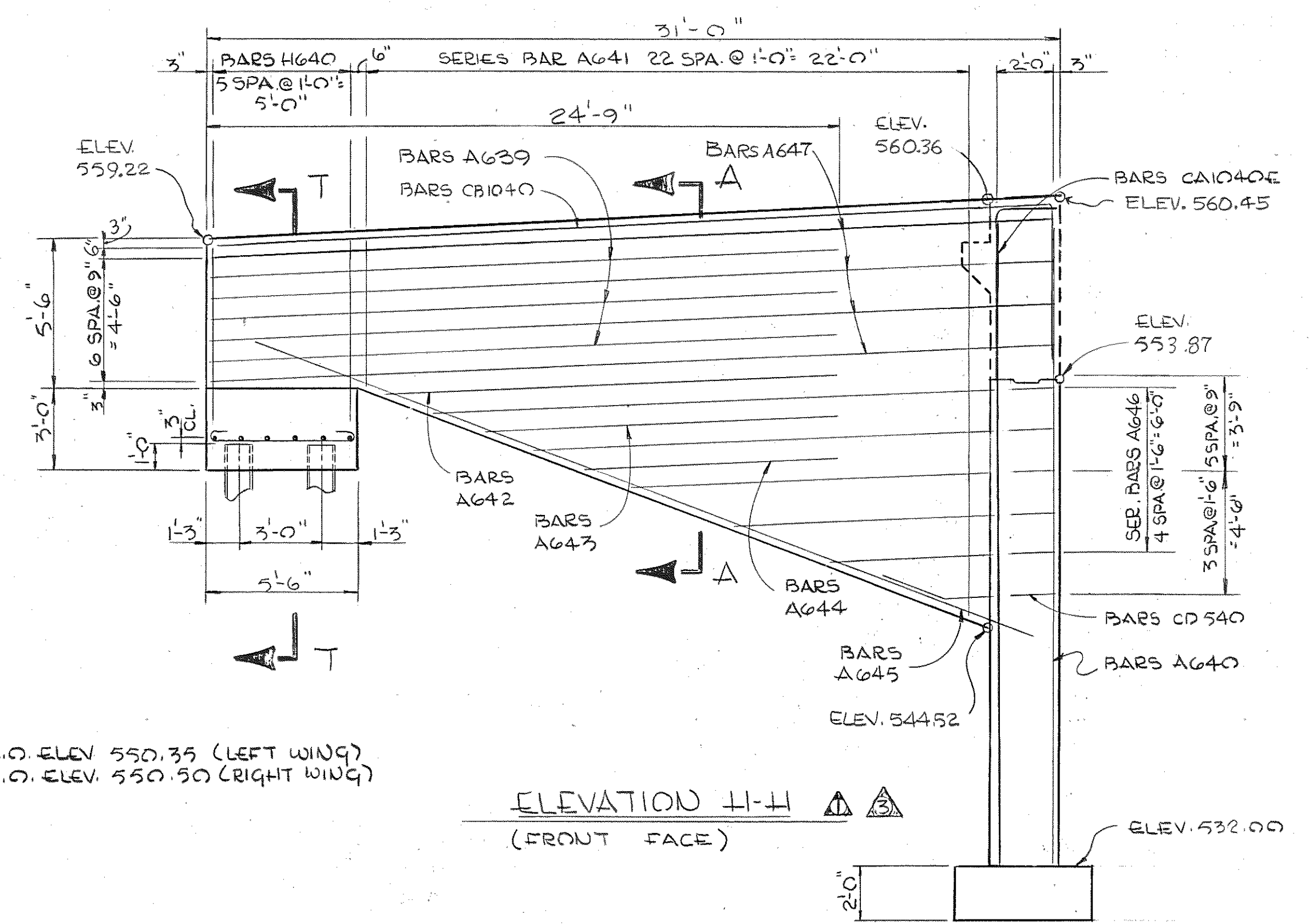
DESIGNED BY: K. LITTON
 DRAWN BY: [Signature]
 SUPERVISED BY: J. FIELDS
 CHECKED BY: [Signature]

DATE: 3/82
 DATE: 3/82
 DATE: 3/82

CORRECT: [Signature]
 ENGINEER OF STRUCTURES
 APPROVED: [Signature]
 DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.
	1982	

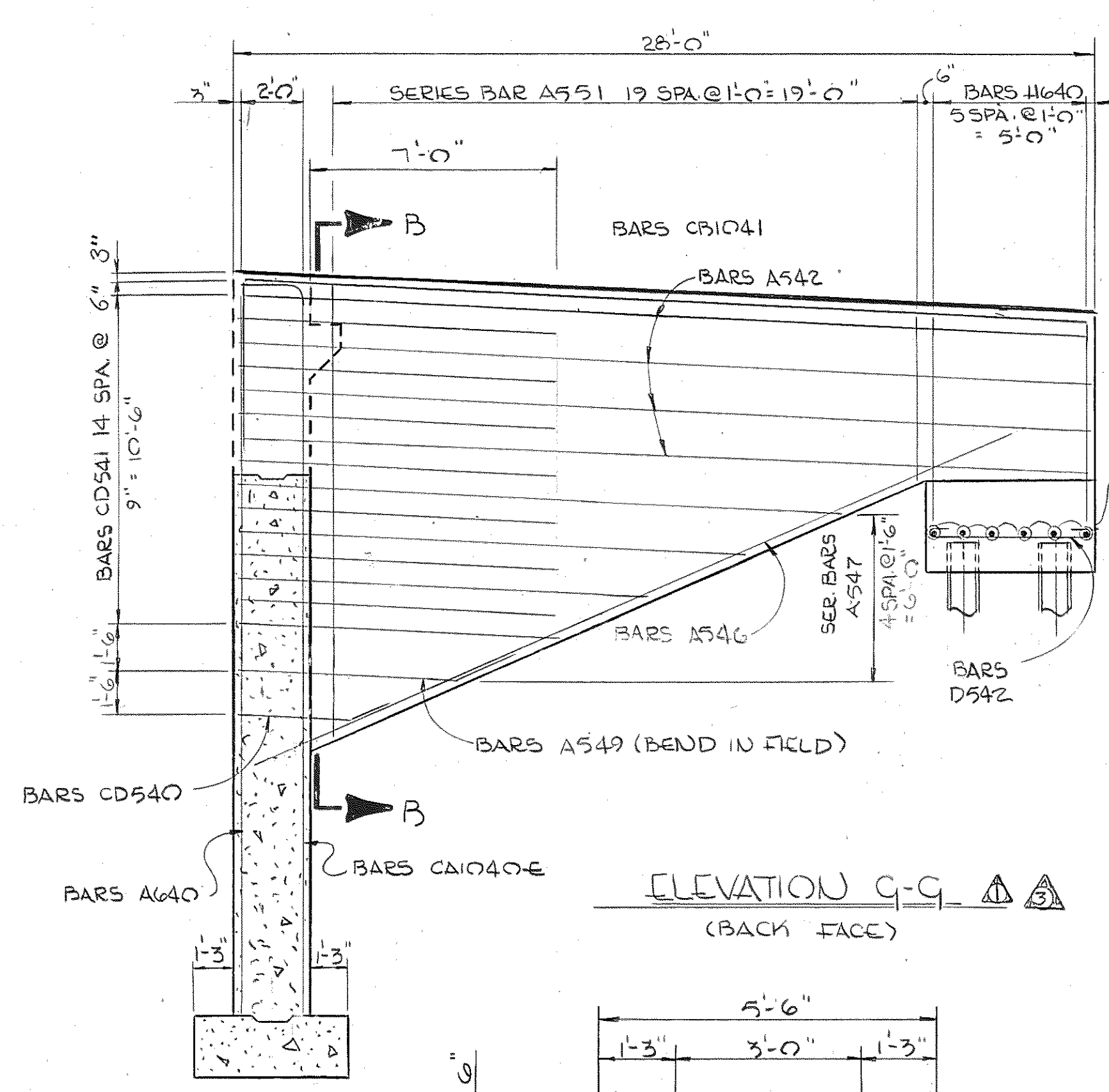
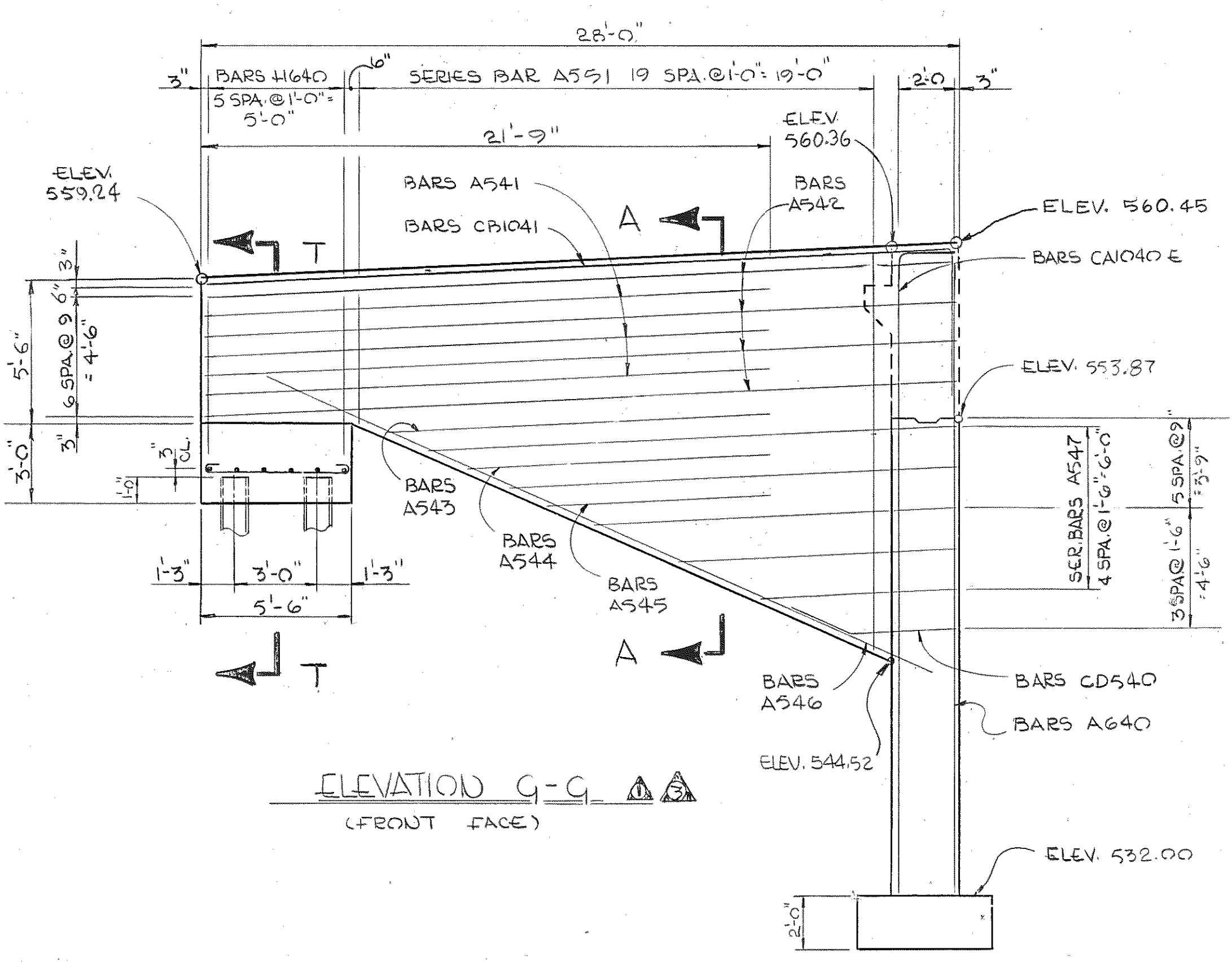
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN. 12 83	WRW	GEN. REV.
2	F. 18 83	WRW	ELEVATION
3	9-23-83	WRW	BAR A 543 CA1040E



P.C.O. ELEV. 550.35 (LEFT WING)
P.C.O. ELEV. 550.50 (RIGHT WING)

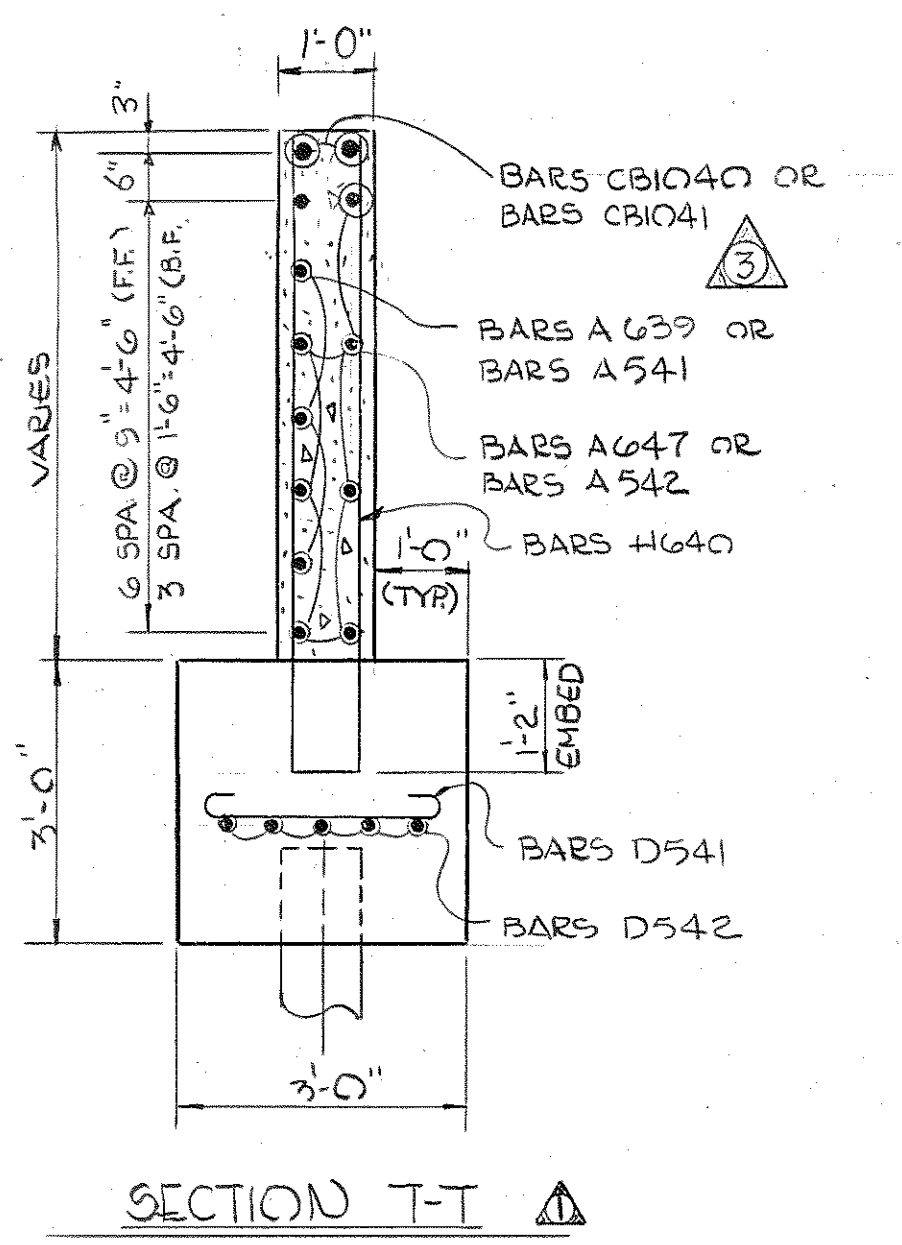
ELEVATION H-H
(FRONT FACE)

ELEVATION H-H
(BACK FACE)

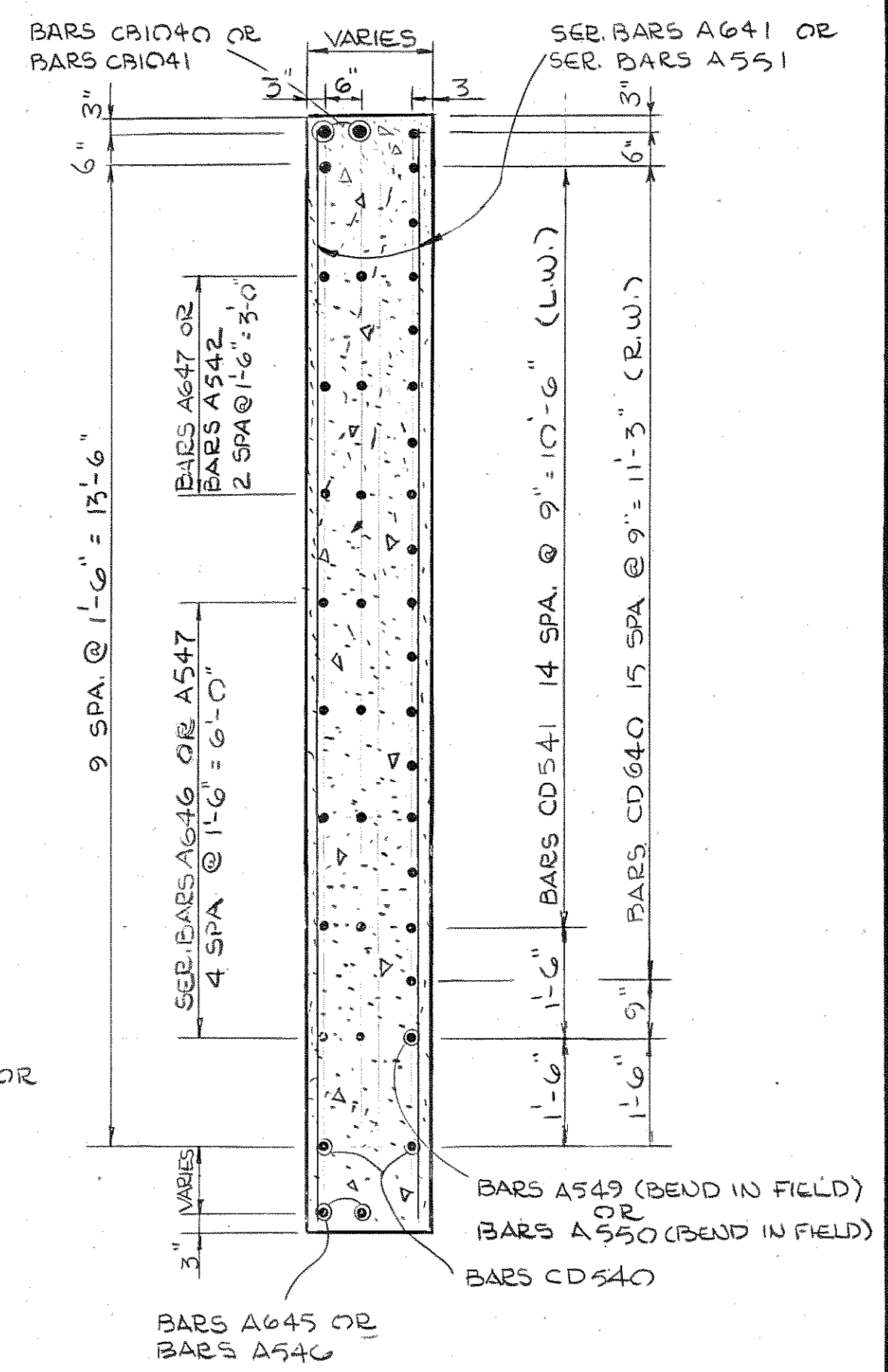


ELEVATION G-G
(FRONT FACE)

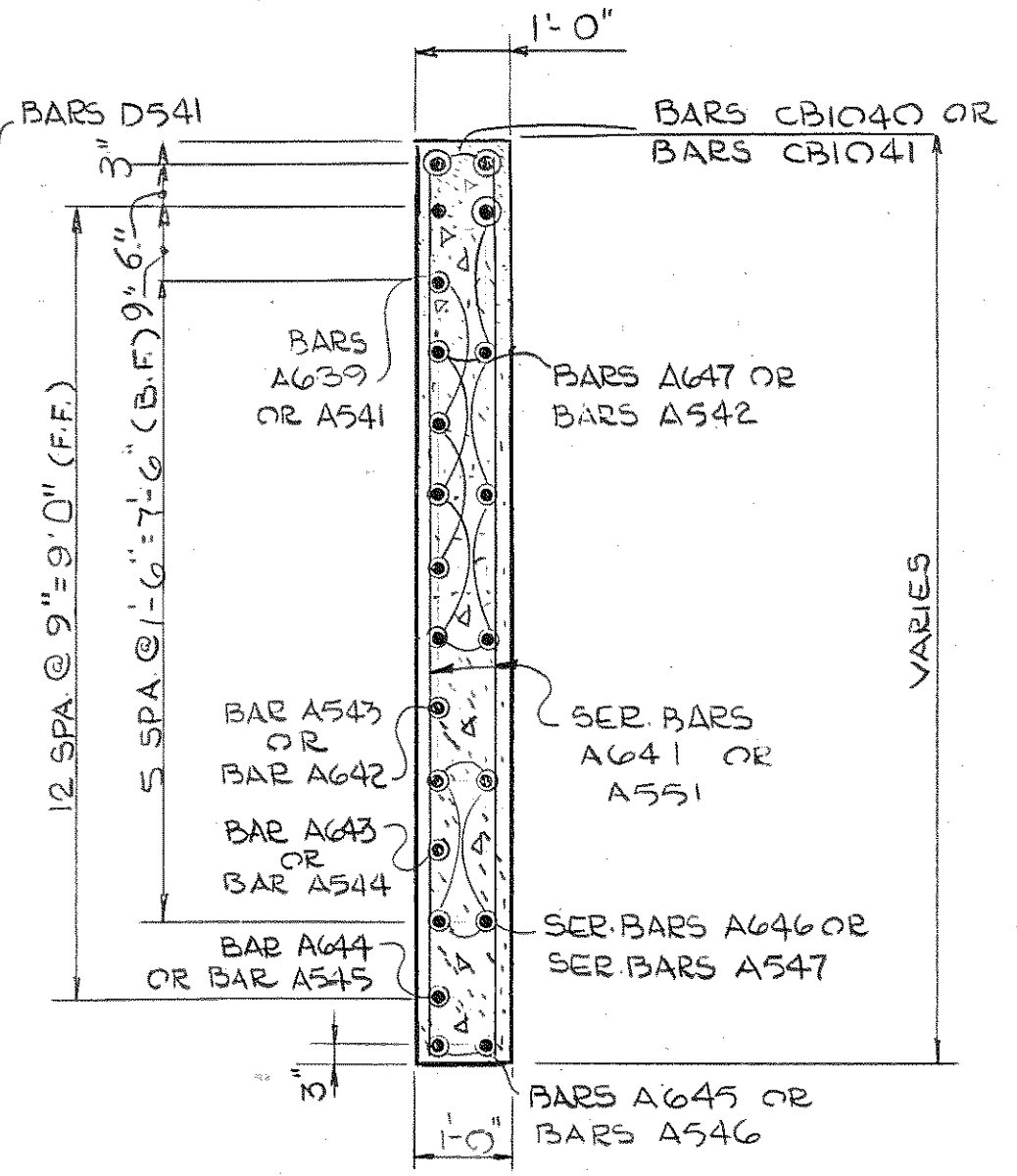
ELEVATION G-G
(BACK FACE)



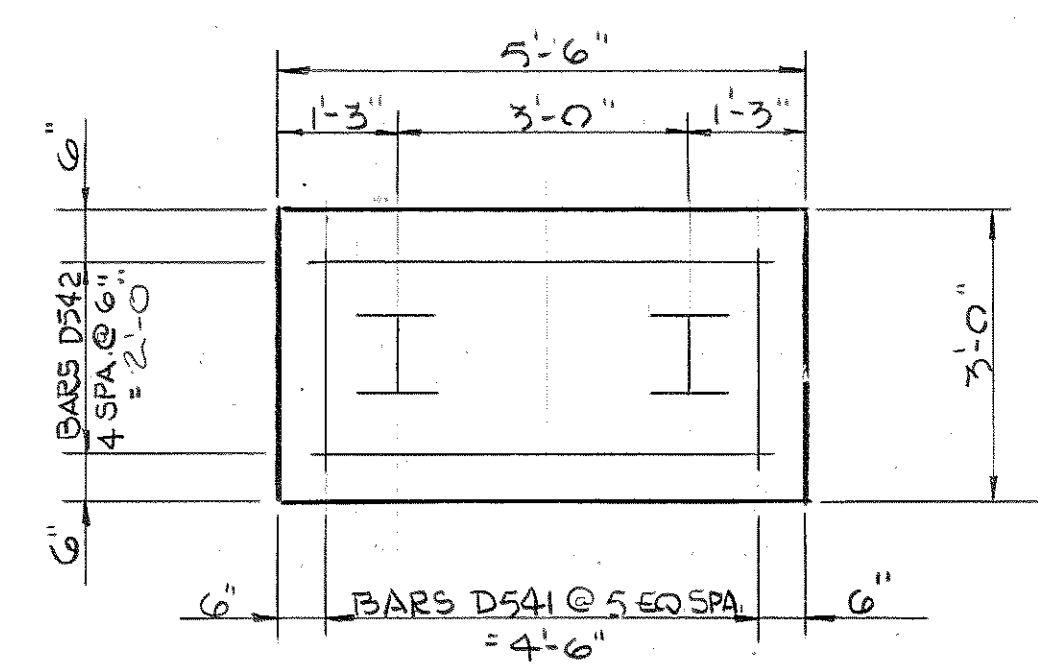
SECTION T-T



SECTION B-B



SECTION A-A



PLAN OF WING FOOTING

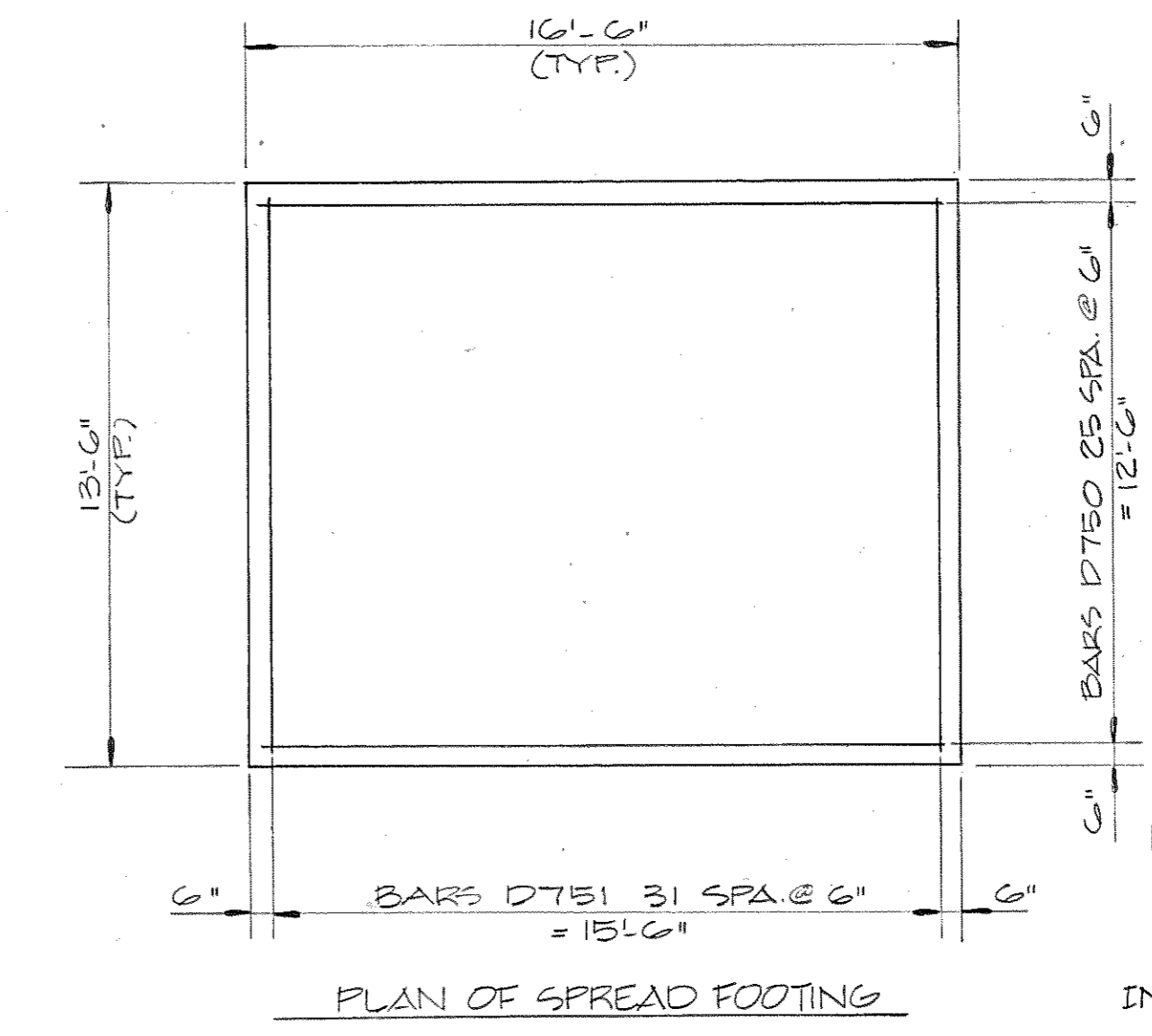
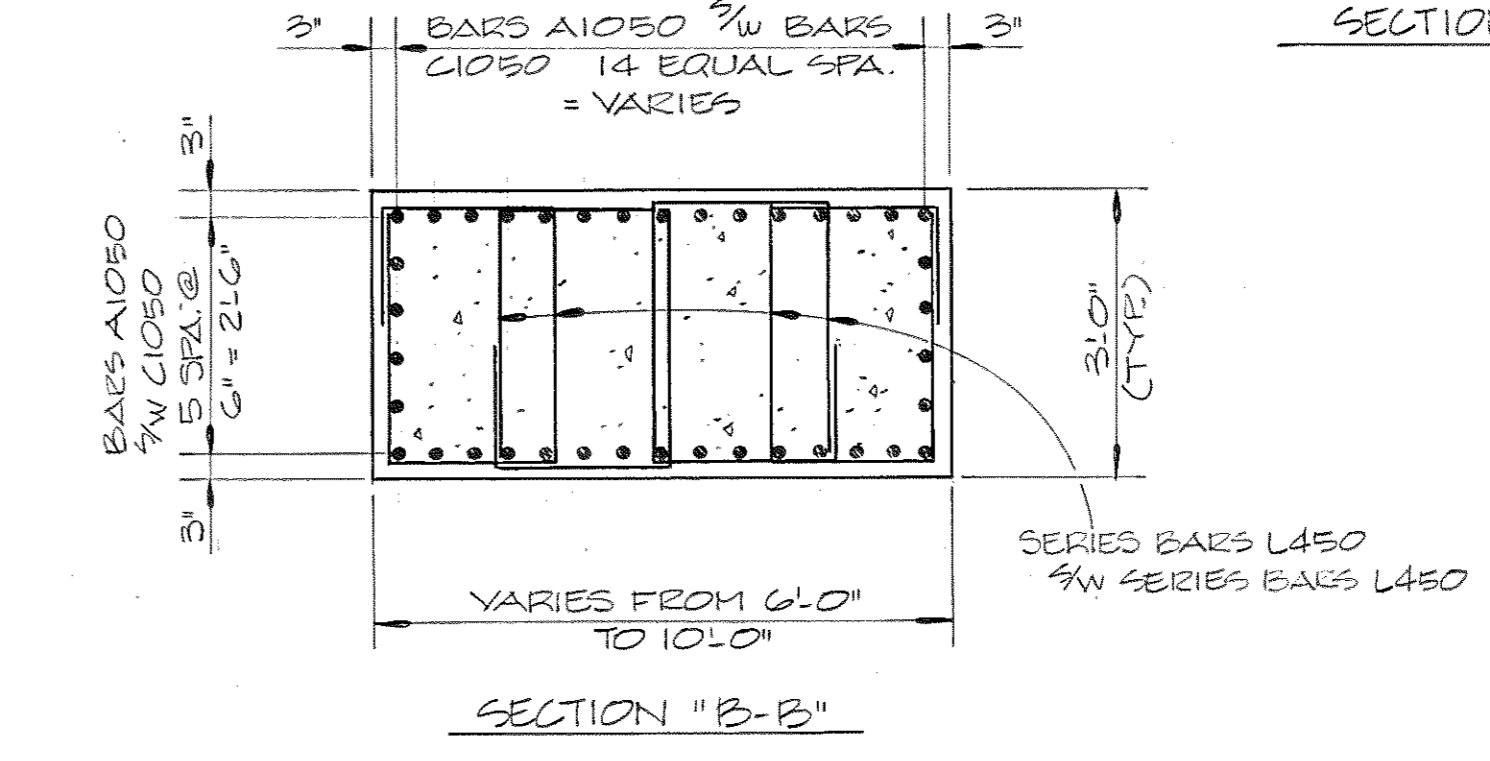
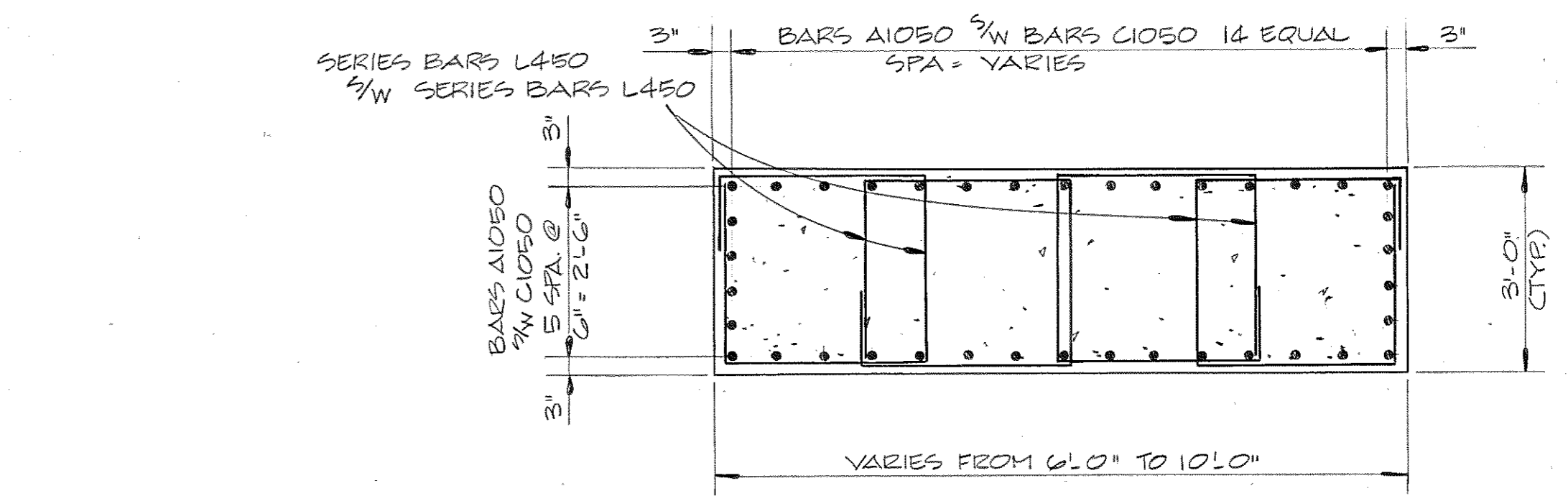
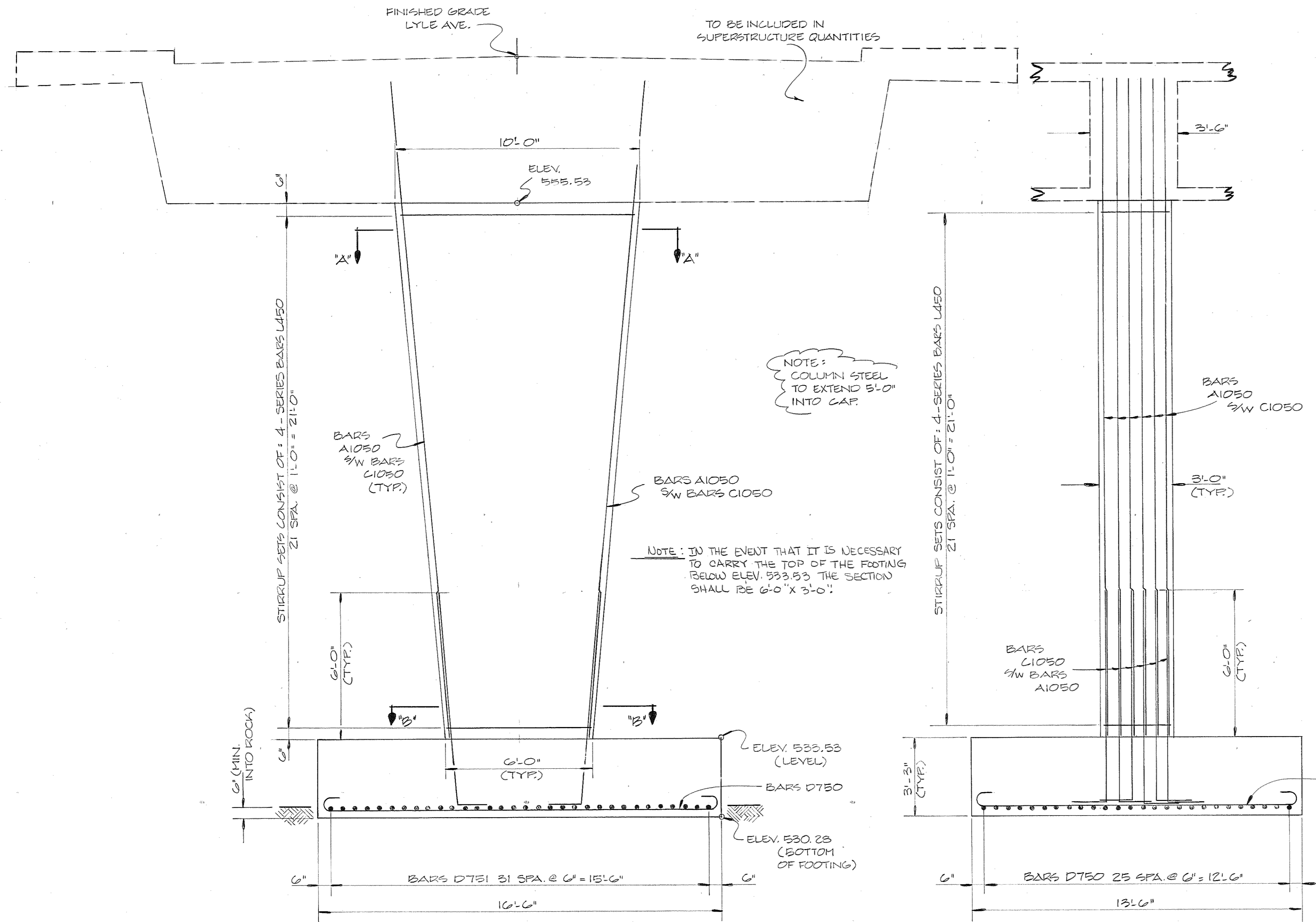
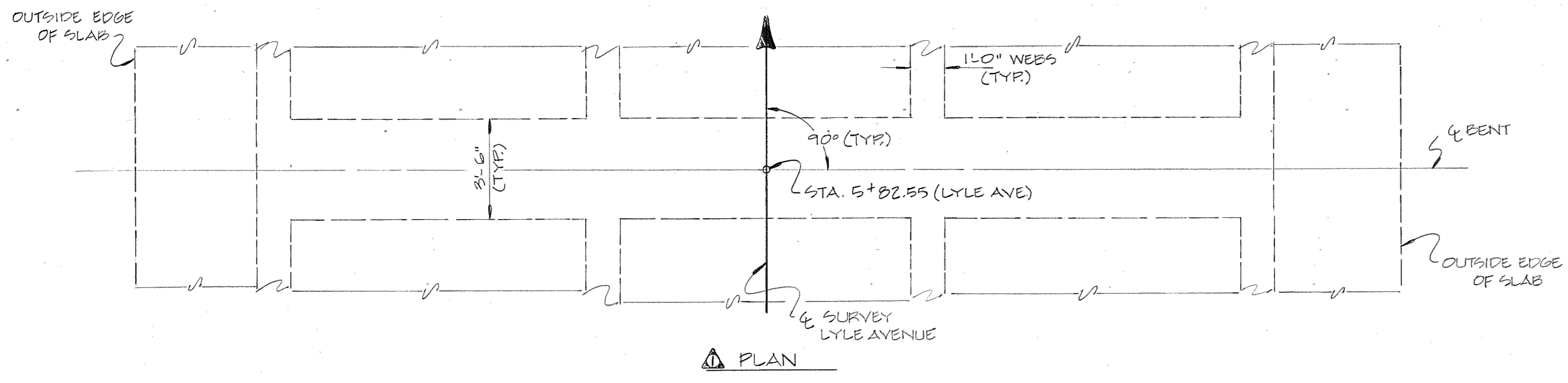
DESIGNED BY: K. LITTON
DRAWN BY: J. B. LINDS
SUPERVISED BY: J. B. LINDS
CHECKED BY: J. B. LINDS

DATE: 4/82
DATE: 4/82
DATE: 4/82

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF HIGHWAYS
ABUTMENT NO. 2 DETAILS
LYLE AVENUE OVER LINE "C",
LINE "C" & LINE "H"
(INTERSTATE 440)
STATION 826+20.56
DAVIDSON COUNTY
1982

CORRECT: *Clifton L. Swannell*
ENGINEER OF STRUCTURES
APPROVED: *J. B. Linds*
DIRECTOR OF HIGHWAYS

PROJECT NO.	YEAR	SHEET NO.	
	1982		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	JAN 12 '83	VV/DW	GEN. REN.
2	F26-85	WRW	Reinforcing Steel Qty.



ESTIMATED QUANTITIES	
CLASS 'A' CONCRETE CY.	REINFORCING STEEL LBS.
46.4	8,714

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
 BENT DETAILS
 LYLE AVENUE OVER
 INTERSTATE 440 (LINE 'C', LINE 'G' & LINE 'H')
 STATION 820+20.56
 DAVIDSON COUNTY
 1982

DESIGNED BY: LITTON
 DRAWN BY: R ALLEN
 SUPERVISED BY: ELLIOTT & WOODS
 CHECKED BY: _____

DATE: 5-82

CORRECT: *William L. Louell*
 ENGINEER OF STRUCTURES
 APPROVED: *Sam J. Grand*
 DIRECTOR OF HIGHWAYS

M-112-86

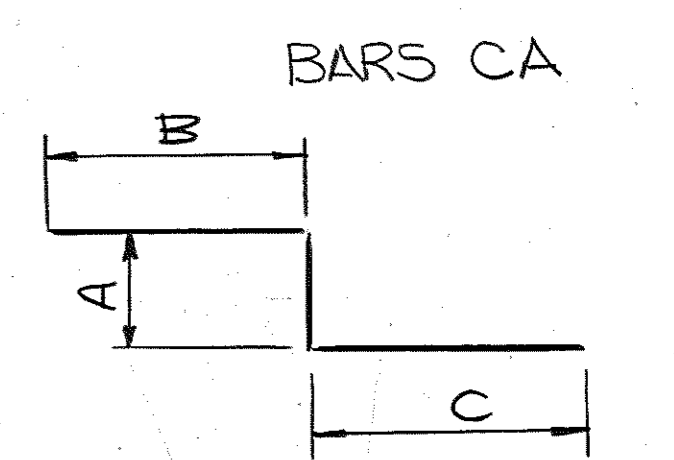
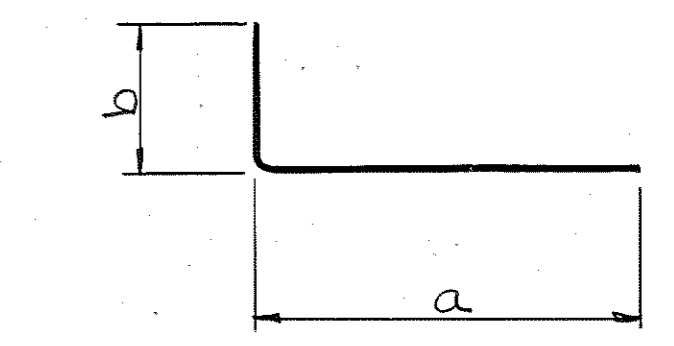
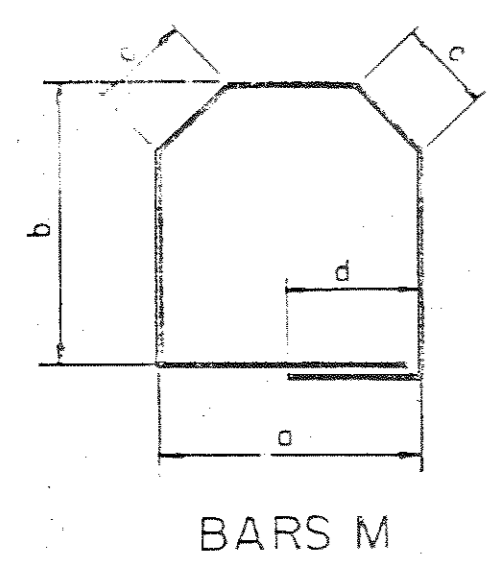
BILL OF STEEL

CONST. NO. 19009-3142-44

SUPERSTRUCTURE										SUPERSTRUCTURE CONTINUED										BENT									
BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH	BAR	LOCATION	SIZE	NO REQD	BENDING DIMENSIONS				LENGTH			
				a	b	c	d						a	b	c	d						a	b	c	d				
EPOXY BARS																													
A507E	BOTTOM SLAB	5	38				4'-6"	A905	BOTTOM SLAB	9	14				48'-6"	A1050	COLUMN	10	38					27'-0"					
A600E	SLAB (T&B)	6	767				37'-8"	A906	BOTTOM SLAB	9	24				50'-0"	C1050	COLUMN & FOOTING	10	38	9'-0"					10'-9"				
A601E	BOTTOM SLAB	6	259				30'-0"	C501	WEB	5	824	2'-8"	10"		3'-6"	D750	FOOTING	7	26	16'-0"				17'-8"					
A602E	BOTTOM SLAB	6	37				7'-8"	CA600	END DIAPHRAGM	6	70	3'-2"	4"		3'-5"	D751	FOOTING	7	32	13'-0"				14'-8"					
A603E	BOTTOM SLAB	6	37				17'-5"	CD501	WEB	5	824	2'-4"	10"	3"	3'-1"	SERIES	COLUMN	4	4			1'-0"	2'-8"						
A907E	BOTTOM SLAB	9	19				30'-4"	E500	BOTTOM WEB	5	294	28'-3"	1'-9"	1'-8"	5"	L450													
A1000E	TOP SLAB	10	96				60'-0"	E900	DIAPHRAGM	9	4	28'-3"	1'-9"	1'-8"	5"														
A1001E	TOP SLAB	10	16				49'-6"	H500	END DIAPHRAGM	5	24	2'-2"	2'-0"		6'-1"														
A1002E	TOP SLAB	10	16				34'-0"	H501	DIAPHRAGM	5	6	3'-0"	2'-2"		7'-4"														
A1003E	TOP SLAB	10	16				24'-0"	EPOXY BARS CONTINUED																					
A1004E	TOP SLAB	10	16				12'-6"	X600E	CURB	6	394	11'-4"	3'-0"	2'-0"		5'-10"													
C500E	WEB	5	824	4'-10"	10"		5'-8"	F600E	CURB	6	767	2'-0"			8'-3"														
CA1000E	TOP SLAB	10	32	42'-3"	4'-6"		46'-8"	A508E	CURB	5	98				30'-0"														
CA1001E	TOP SLAB	10	32	22'-9"	4'-6"		27'-2"	A509E	CURB	5	14				31'-1"														
CB500E	WEB	5	412	4'-9"	10"	2"	5'-6"	SERIES	DIAPHRAGM	5	4	2'-4"	1'-0"		67'-1"														
CD500E	WEB	5	412	4'-9"	10"	3"	5'-6"	L500E				DIM. "C" VARIES FROM 5'-2 3/4" TO 5'-1 1/8" IN INC. OF 1/8" (13 BARS)																	
A500	WEB	5	280				30'-0"	A501	WEB	5	40				33'-1"														
A501	WEB	5	40				33'-1"	A502	WEB	5	2				30'-7"														
A502	WEB	5	2				30'-7"	A503	WEB	5	2				30'-5"														
A503	WEB	5	2				30'-5"	A504	WEB	5	2				29'-11"														
A504	WEB	5	2				29'-11"	A505	WEB	5	2				29'-5"														
A505	WEB	5	2				29'-5"	A506	WEB	5	2				28'-11"														
A506	WEB	5	2				28'-11"	A604	END DIAPHRAGM	6	24				37'-8"														
A604	END DIAPHRAGM	6	24				37'-8"	A605	END DIAPHRAGM	6	2				34'-2"														
A900	BOTTOM SLAB	9	118				60'-0"	A901	BOTTOM SLAB	9	24				40'-0"														
A901	BOTTOM SLAB	9	24				40'-0"	A902	BOTTOM SLAB	9	24				25'-3"														
A902	BOTTOM SLAB	9	24				25'-3"	A903	BOTTOM SLAB	9	30				40'-6"														
A903	BOTTOM SLAB	9	30				40'-6"	A904	BOTTOM SLAB	9	16				13'-3"														
A904	BOTTOM SLAB	9	16				13'-3"																						

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	TENN.		1982		

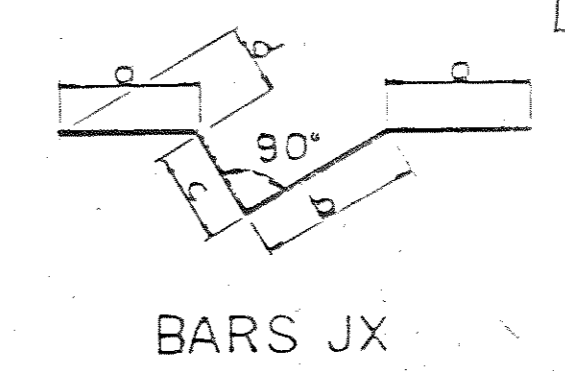
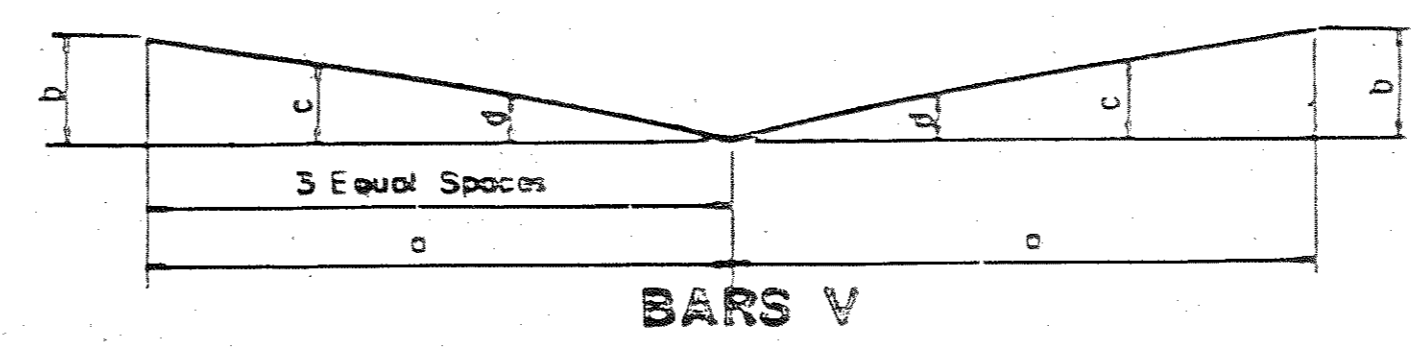
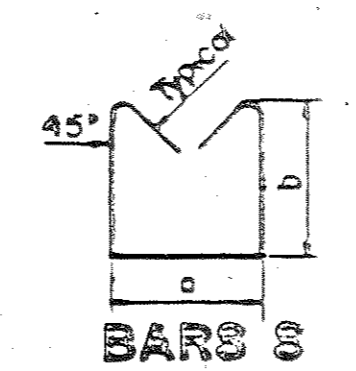
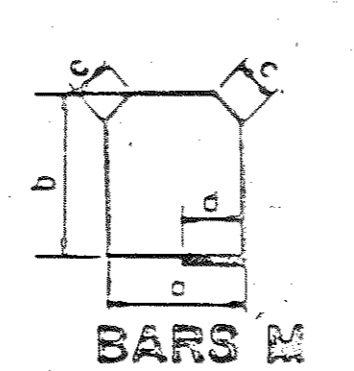
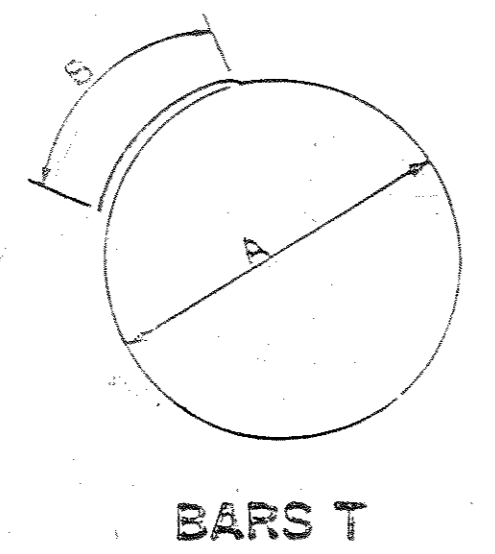
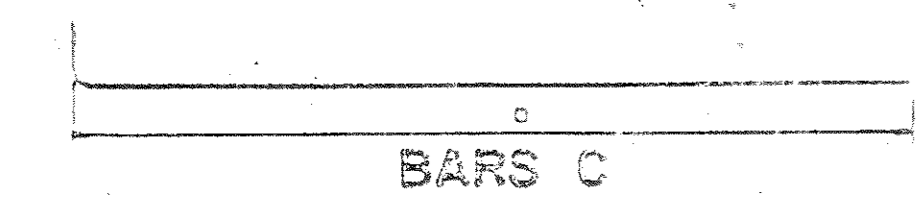
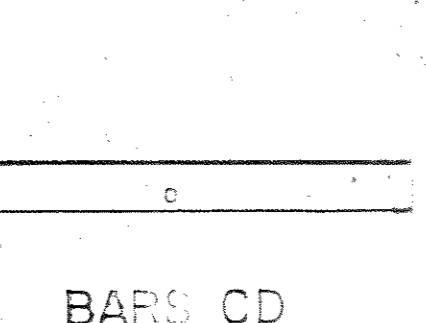
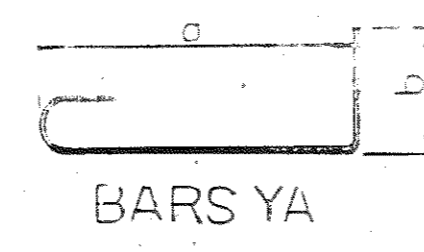
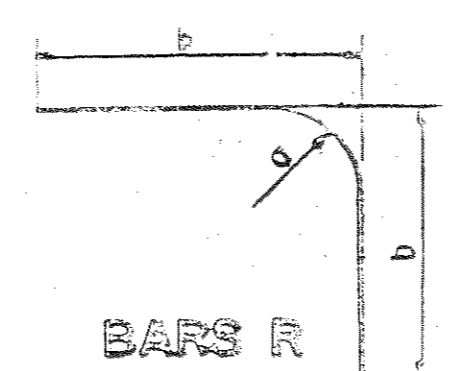
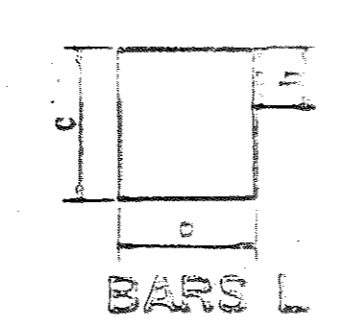
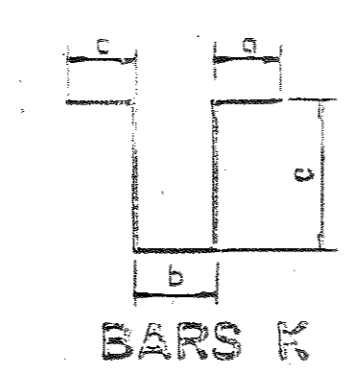
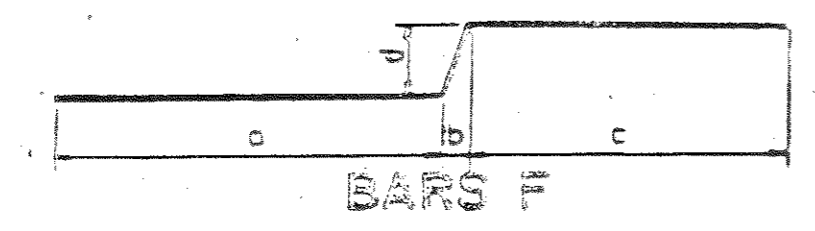
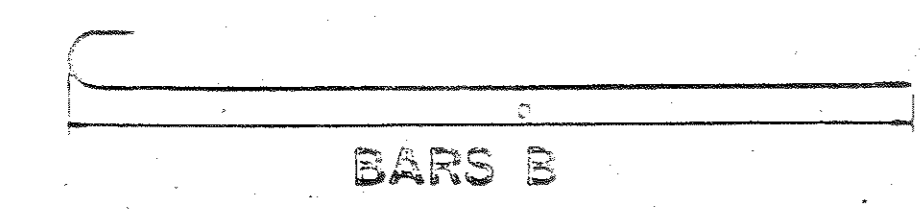
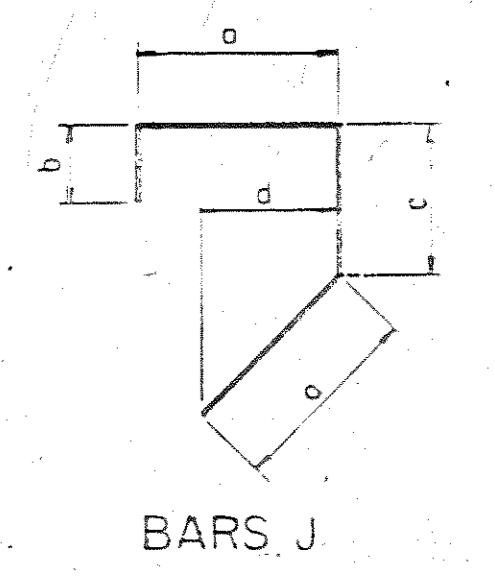
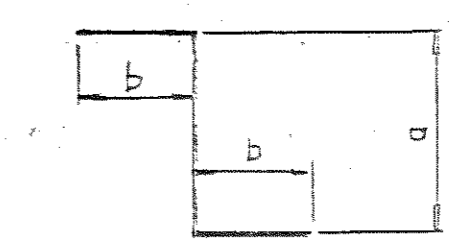
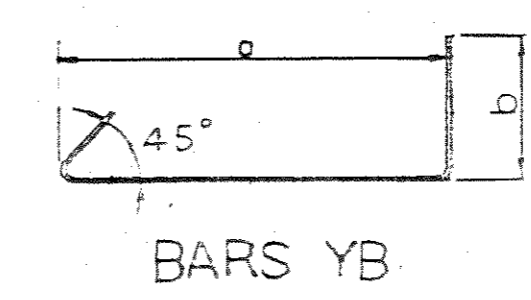
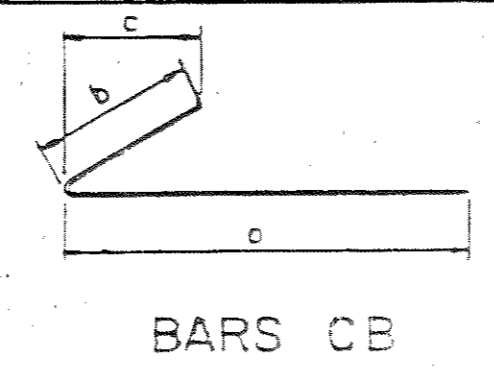
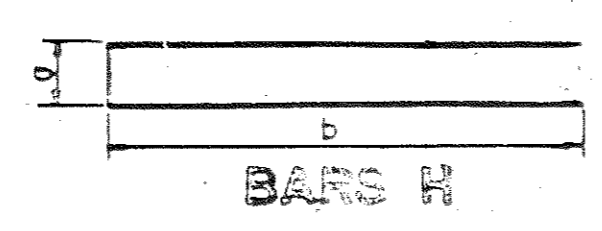
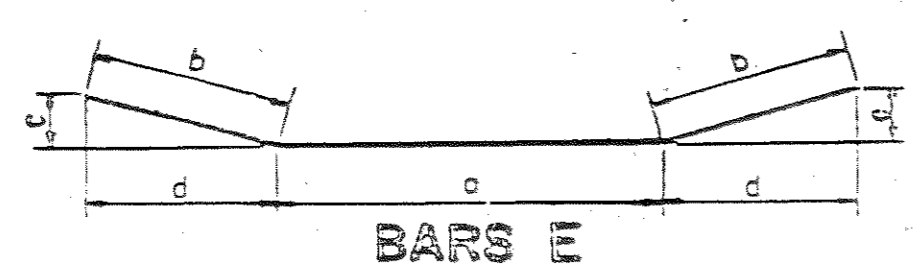
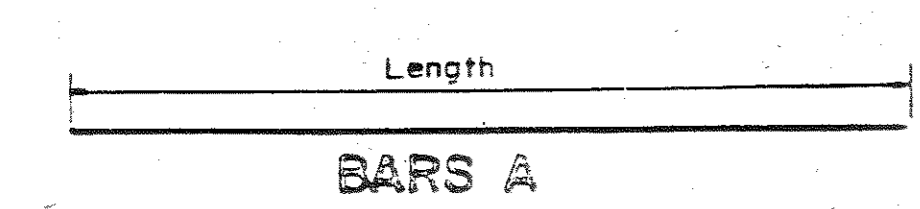
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION
1	11-12-83	WRW	GEN. REV.
2	9-22-83	WRW	REMOVE EXTRA BARS X



REINFORCING STEEL CURB

TYPE	SIZE	SERIES
A	5	

NOTE: Dimensions shown on this chart are outside to outside of bar. Standard C.R.S. Hook Details Shall Apply, Except As Noted.



DESIGNED BY: KEN LITTON DATE: 10-81
 DRAWN BY: S. SHULTZ DATE: 7-82
 SUPERVISED BY: FIELDS & WOODS DATE: 7-82
 CHECKED BY: DATE:

STATE OF TENNESSEE
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF HIGHWAYS
BILL OF STEEL
 LYLE AVENUE OVER INTERSTATE 440
 (LINE 'C', LINE 'G' & LINE 'H')
 STATION 826+20.56
 DAVIDSON COUNTY
 1982

CORRECT: *Clallon L. Lovell*
 ENGINEER OF STRUCTURES
 APPROVED: *Lewis Evans*
 DIRECTOR OF HIGHWAYS