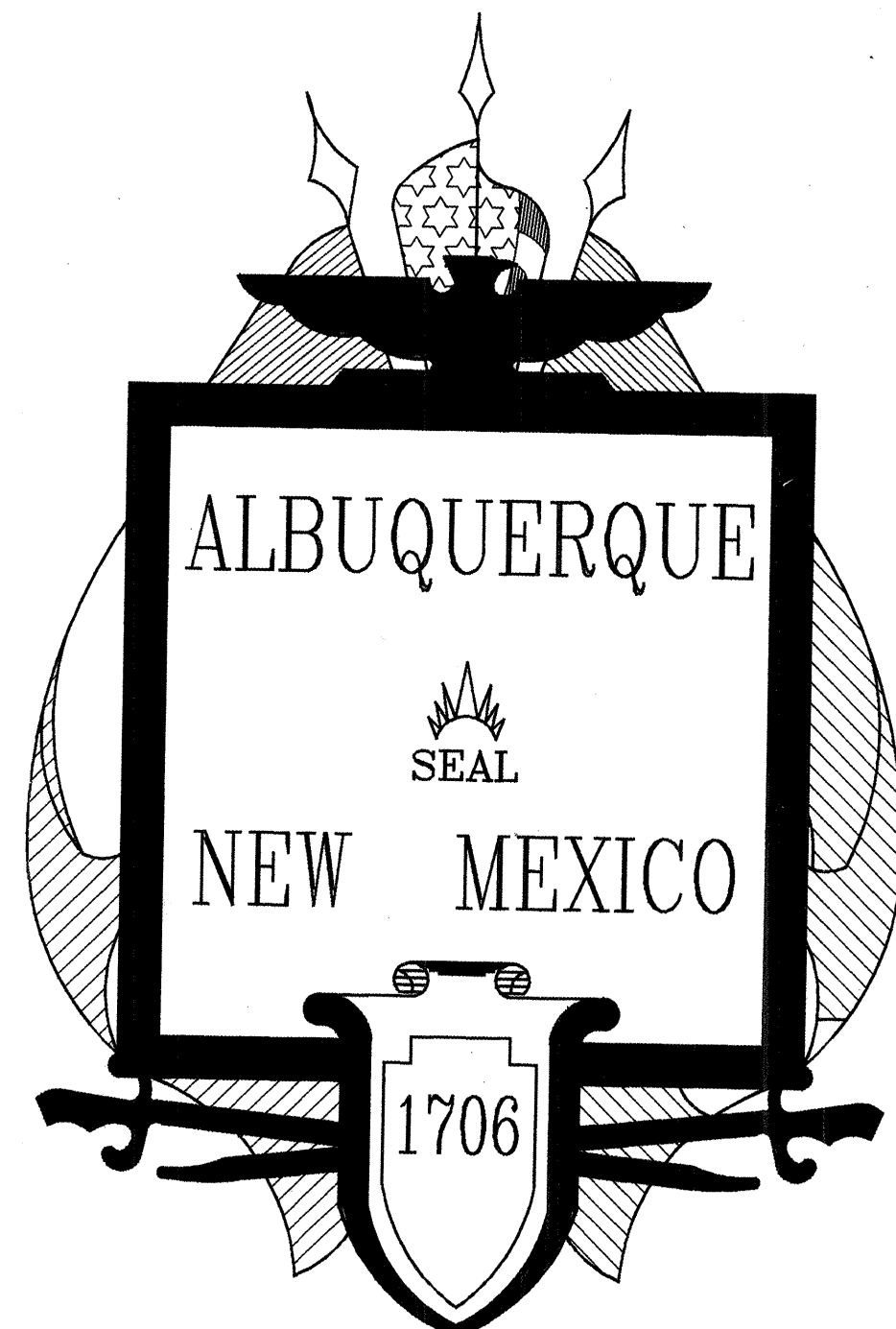


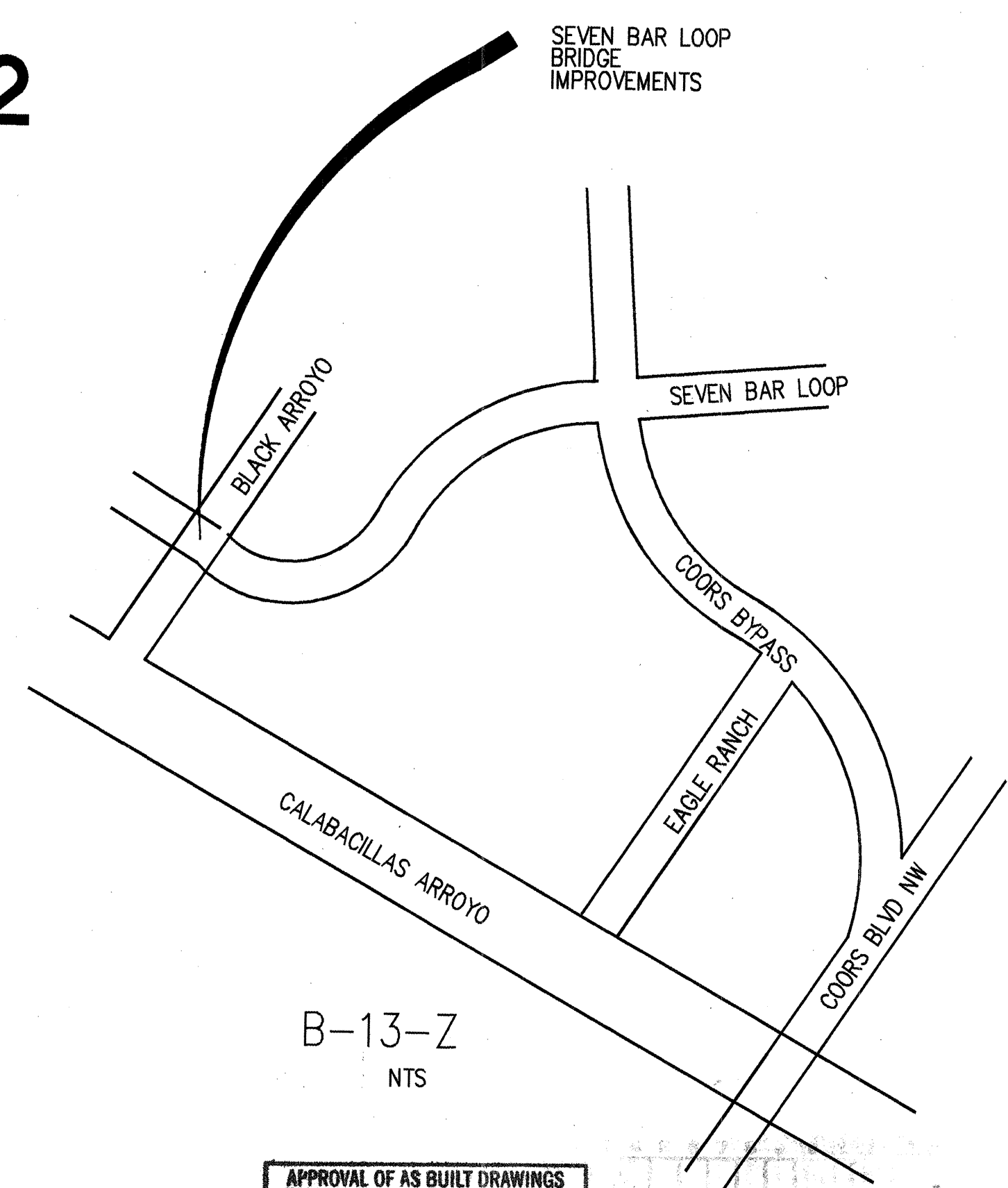
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT HYDROLOGY DIVISION CONSTRUCTION PLANS

SEVEN BAR LOOP BRIDGE
CITY OF ALBUQUERQUE
CITY PROJECT NO. 5010.92



INDEX TO SHEETS - DESIGN DRAWINGS

SHEET REF. & NO.	DESCRIPTION	FILE NAME
B1-1	1 COVER SHEET - LOCATION MAP - INDEX TO DRAWINGS	B1-1.DWG
B1-2	2 GENERAL NOTES - SCHEDULES	B1-2.DWG
SUBTOTAL: 2		
7-1	3 BRIDGE PLAN - LONGITUDINAL ELEVATION	B7-1.DWG
7-2	4 DECK SLAB REINFORCEMENT PLAN	B7-2.DWG
7-3	5 DECK SLAB ELEVATIONS	B7-3.DWG
7-4	6 DECK DETAILS - ROAD SECTION	B7-4.DWG
7-5	7 BRIDGE TRANSVERSE SECTION - WINGWALL SECTIONS	B7-5.DWG
7-6	8 MISC DETAILS	B7-6.DWG
7-7	9 PRESTRESSED CONCRETE BEAM DETAILS	B7-7.DWG
7-8	10 ABUTMENT PLAN AND SECTIONS	B7-8.DWG
SUBTOTAL: 8		
11	11 STREET PLAN & PROFILE - FOR REFERENCE ONLY	



RECORD DRAWING
DATE: 8/29/95 DRAFTED BY: SHAHRAM BIAZAR
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

APPROVED:
DATE: 1/23/95
Rumbold
CITY ENGINEER

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE: 10-24-90

SAID PROJECTS WILL HAVE INSURANCE COVERAGE FOR ANY DAMAGE TO PROPERTY OR PERSONS.

DATE: 11/9/94
SHEET REF. FOR SECTIONS & DETAILS
B1-1

NOTES:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-5010.92 01/96

K-V - CADD
KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: B1-1

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: COVER SHEET - LOCATION MAP
INDEX TO DRAWINGS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	B. J. B. B.	11/10/95			
Trans. Dev.	B. J. B. B.	12-08-94			
Utility Dev.	B. J. B. B.	11/10/95			
Hydrology	B. J. B. B.	12-21-94			
DRAWING NO.	5010.92	MAP NO.	B-13	SHEET	1 OF 11

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	CONTRACTOR	DATE
				Walter Sweeney	11/10/95
				INSPECTED BY	DATE
				Walter Sweeney	11/10/95
				VERIFICATION BY	DATE
				Walter Sweeney	11/10/95
				DRAWINGS BY	DATE
				Walter Sweeney	11/10/95
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				Walter Sweeney	11/10/95



GENERAL NOTES AND STRUCTURAL NOTES

1) MATERIALS (ALSO SEE SPECIFICATIONS)

- CONCRETE: DESIGN PER ACI 318-91
 - a. TYPE II CEMENT
 - b. ALL CONCRETE - F'c - 4000 PSI
- REINFORCING:
 - a. ALL - ASTM A615 - GR. 60 - Fy = 60,000 psi
 - b. EPOXY COATED WHERE NOTED
- STRUCTURAL STEEL: DESIGN PER AISC MANUAL - 9TH EDITION
 - a. MISC. SHAPES, ANGLES, CHANNELS, PLATES
ASTM A36, Fy = 36,000 psi
- BOLTS: ASTM A307 OR ASTM A325
- WELDING: E70XX ELECTRODES
- FILL MATERIAL: GRANULAR MATERIAL
 - 1 1/2" - 100% PASSING
 - NO. 4 - 25-70% PASSING
 - NO. 10 - 20-55% PASSING
 - NO. 200 - 0-12% PASSING
- BASE COURSE: 4" ASPHALT TREATED BASE
- ASPHALT CONCRETE: 3 1/2" BASE AND 1 1/2" SURFACE
1800 LBS STABILITY, TYPE B GRADATION

2) GENERAL CONSTRUCTION NOTES

- A) FOUNDATION NOTES:
1. FOOTINGS SHALL REST ON GRANULAR FILL SOIL AT DEPTHS SHOWN. IN THE EVENT OF OVER EXCAVATION FOR FOOTINGS, OVER EXCAVATED PORTION SHALL BE FILLED WITH CONCRETE TO THE CORRECT ELEVATION. SUCH CONCRETE WILL BE OF SAME QUALITY AS THAT SPECIFIED FOR FOOTINGS.
- B) CAST-IN-PLACE CONCRETE NOTES:
1. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE OVER REINFORCEMENT SHALL CONFORM TO SECTION 7.7.1 OF THE ACI STANDARD 318-91.
 2. UNLESS OTHERWISE SHOWN, MINIMUM SPLICE LAP ON ALL REINFORCING BARS SHALL BE 30 BAR DIAMETERS.
 3. TOP 12 INCHES OF SUBGRADE MATERIAL AND ALL FILL LAYERS BELOW ALL SLABS ON GRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS PER ASTM D1557.
 4. CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES TO INSURE THAT ALL ANCHORS, EMBEDDED ITEMS, RECESSED AREAS AND PENETRATIONS COMPLY WITH DETAILS AS SHOWN ON DRAWING OR OTHERWISE SPECIFIED.

3) EXISTING UTILITIES PROTECTION NOTES:

- A. NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN HEREDON AND THAT ANY EXISTING UTILITIES THAT ARE SHOWN, ARE IN AN APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY HIS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES.
- B. THE CARE AND PROTECTION OF ALL OTHER UTILITIES, AND OTHER STREET APPURTENANCES THAT ARE NOT PART OF THE INTENDED WORK AS SHOWN ON THE PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF DAMAGED, LOST IN TRENCH, OR OTHERWISE HARMFULLY DISTURBED, THESE DAMAGES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- C. WATER SHUT-OFF PLANS ARE FOR CITY USE ONLY. CONTRACTOR IS REQUIRED TO NOTIFY WATER SYSTEMS THREE WORKING DAYS PRIOR TO ANY REQUIRED OPERATIONS (857-0200). WATER SYSTEM SHUT-OFFS AND TURN-ONS SHALL BE PER SECTION 18.3 OF THE GENERAL CONDITIONS.

4) NEW UTILITIES:

- A) NEW UTILITIES ARE BEING INSTALLED IN SEVEN BAR LOOP ROAD UNDER SEPERATE CITY PROJECTS (5010.91) AND (4727.92). COORDINATE BRIDGE UTILITY CASING LOCATIONS WITH THESE PROJECTS. CONTACT RON BOHANNAN OF TIERRA MANAGEMENT SERVICES FOR APPROACH UTILITY LOCATIONS FOR GAS TELEPHONE, AND CABLE. REVISIONS TO THE EXISTING WATER AND NEW SEWER CONSTRUCTION ARE BEING MADE UNDER PROJECT NO. 5010.91.

HORIZONTAL SCALE



INDEX TO STANDARD DETAIL DRAWINGS

DRAWING NO.	TITLE	WORK AREA
2415	CURB AND GUTTER & TEMPORARY PAVING SECTION	PAVING
2430	SIDEWALK DETAILS	PAVING
2451	CONCRETE JOINTS TYPE 5 & 6	PAVING
2604	METAL RAILING TYPE D	STRUCTURE
2610	METAL BARRIER MATERIALS AND PLACEMENT PROCEDURES	STRUCTURE
2635	METAL BARRIER (BREAKAWAY) TYPE "C" END ANCHORAGE (WOOD POSTS)	STRUCTURE

SUMMARY OF QUANTITIES

				PROJECT TOTAL	
ITEM NO	DESCRIPTION	UNIT	ESTIMATE	FINAL	ESTIMATE
0004.01	STKG	JOB	LS		1.00
0019.02	TRAFF CONT & BARR	JOB	LS		1.00
0201.01	SITE CLEAR & GRUB	JOB	LS		1.00
0205.01	FILL, BORROW, HAUL, & COMP	CY	1896.30		1896.30
0301.02	SUBGRADE PREP, ART, 12"	SY	660.00		660.00
0307.01	AT BS, 4", 1000, M	SY	660.00		660.00
0336.01	PRIME CT	SY	660.00		660.00
0336.11	3-1/2" AC BS, 1800, M	SY	660.00		660.00
0336.12	TK CT	SY	1320.00		1320.00
0336.17	1-1/2" AC SFC, 1800, M	SY	660.00		660.00
0340.01	SDWK, 4", PCC	LF	171.11		171.11
0340.05	C & G, STD, PCC	LF	220.00		220.00
0501.01	STRUCT. EXCAV/BF & COMP	CY	509.63		509.63
0510.11	STR CONC. 4000 RPCC, FORM - DECK/WALLS	CY	359.84		359.84
0510.12	WALL FTG, 4000 RPCC	CY	191.11		191.11
0520.01	STRU STL	LBS	1000.00		1000.00
0520.02	PRECAST BRIDGE MEMBERS	LF	420.00		420.00
0550.02	METAL RAILING TYPE D	LF	349.00		349.00
0550.03	METAL BARRIER W-BEAM	LF	150.00		150.00
0550.04	METAL BARRIER ANCHORAGE TYPE C	EA	4.00		4.00
0550.05	12" STEEL CARRIER PIPE & RELATED PIPE CASEMENTS	LF	61.00		61.00

NOTES:

ALL WORK TO BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, 1986 EDITION (AS UPDATED WITH REVISION #4), OR PER ATTACHED SPECIFICATIONS.

THE WATER SYSTEMS DIVISION (857-8200) SHALL BE NOTIFIED (5) FIVE WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT EXISTING PUBLIC WATER FACILITIES. THE CONTRACTOR SHALL ALSO COORDINATE VALVE OPERATION FOR WATER SHUTOFF.

THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.

ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.

THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM PHONE: 260-1990, TO LOCATE UNDERGROUND UTILITIES 2 WORK DAYS PRIOR TO BEGINNING EXCAVATION.

THE CONTRACTOR SHALL CONTACT TRAFFIC ENGINEERING OPERATIONS 764-1599 FOR REMOVAL AND REPLACEMENT OF TRAFFIC SIGNS.

THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, UNLESS NOTED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING IMPROVEMENTS ARE TO REMAIN, UNLESS SPECIFICALLY NOTED TO BE REMOVED. CONTRACTOR SHALL REPAIR ANY CONTRACTOR-CAUSED DAMAGE, AS DETERMINED BY THE ENGINEER TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS, HORIZONTAL AND VERTICAL, AND SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY.

FOR PURPOSES OF THE PROJECT THE TERM ENGINEER SHALL REFER TO EITHER THE OWNER'S EMPLOYEE OR THE ENGINEER RESPONSIBLE FOR CONSTRUCTION INSPECTION OF THE PROJECT.

ALL REFERENCES TO COMPACTED BACKFILL OR COMPACTED SUBGRADE SHALL MEAN SOIL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISH ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO NEW GRADE, UNLESS OTHERWISE SPECIFIED.

K-V - CADD

KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: B1-2

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: GENERAL NOTES - SCHEDULES

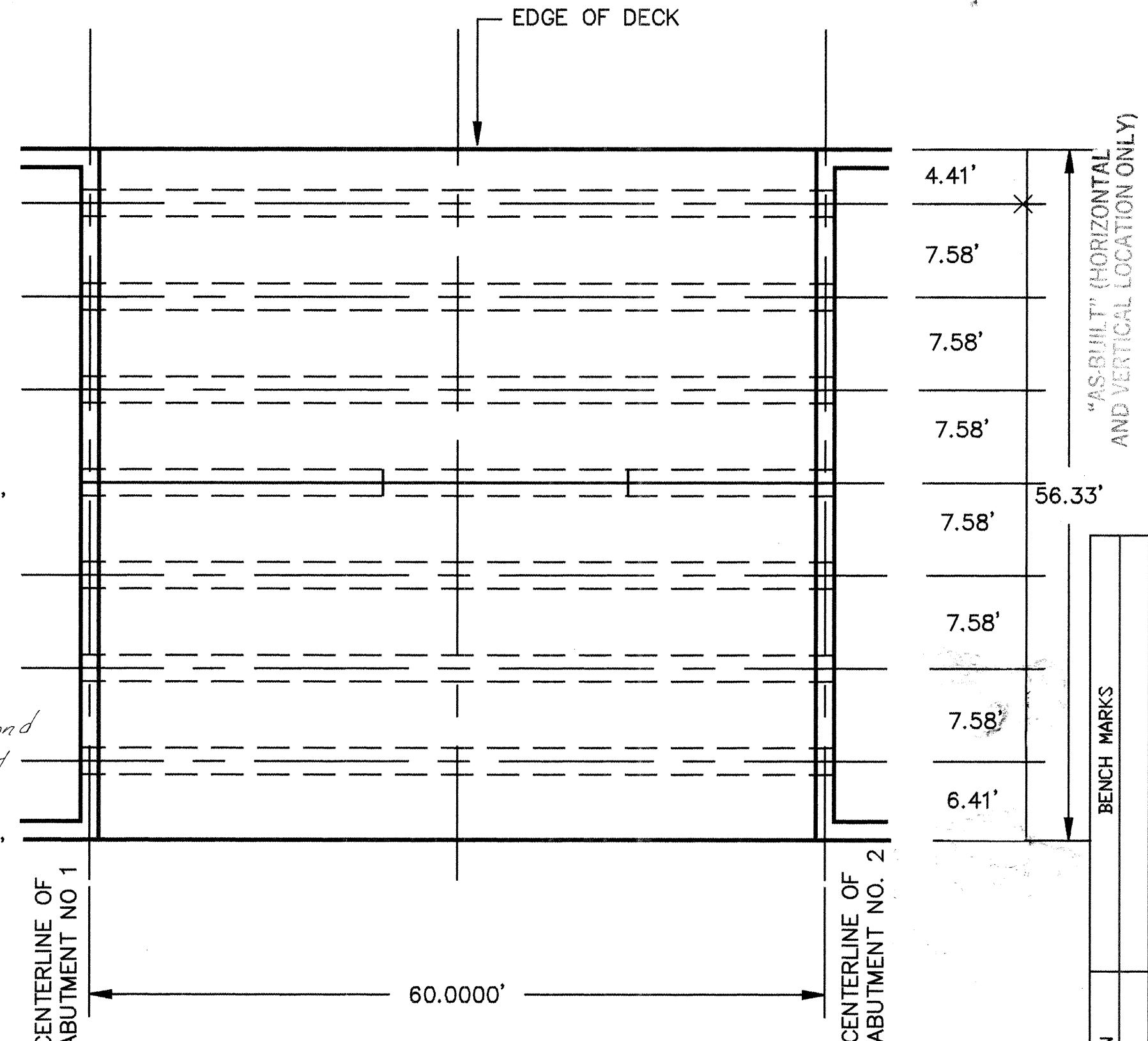
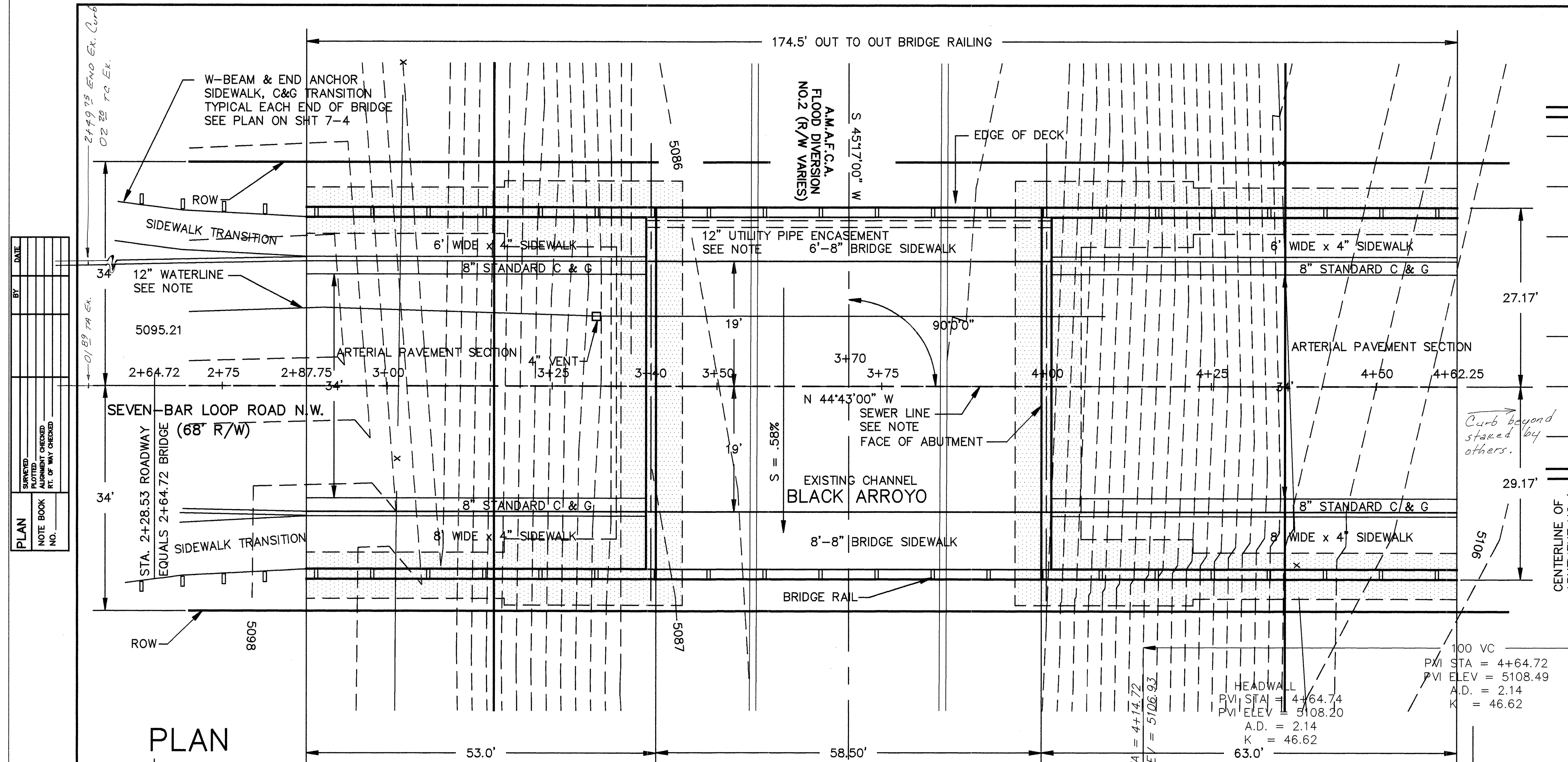
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D.R.C. Chair	J.G. Boudley	1-10-95			
Trans. Dev.	N.P. Boudley	12-21-94			
Utility Dev.	ERL	12-21-94			
Hydrology	J.P.C.	12-21-94			
DRAWING NO.	5010.92	MAP NO.	B-13	SHEET	2 OF 11

RECORD DRAWING

DATE: 8/27/95 DRAFTED BY: SHAHRAM PAZAK

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

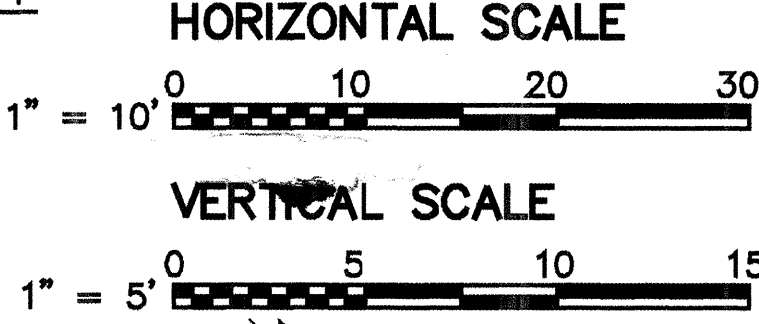
DATE: 11/28/94
SHEET REF. FOR SECTIONS & DETAILS
B1-2



RECORD DRAWING

DATE: 8/23/95 DRAFTED BY: SHARON BIAZAR

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NEW UTILITIES NOTE:

NEW UTILITIES ARE BEING INSTALLED IN SEVEN BAR LOOP ROAD UNDER SEPARATE CITY PROJECTS (5010.91) AND (4727.92). COORDINATE BRIDGE UTILITY CASING LOCATIONS WITH THESE PROJECTS. CONTACT RON BOHANNAN OF TIERRA MANAGEMENT SERVICES FOR APPROACH UTILITY LOCATIONS FOR GAS, TELEPHONE, AND CABLE. REVISIONS TO THE EXISTING WATER AND NEW SEWER CONSTRUCTION ARE BEING MADE UNDER PROJECT NO. 5010.91.

- LEGEND**
- ☐ TBX TELEPHONE BOX
 - ☐ CBX CABLE BOX
 - PP POWER POLE
 - ★ DECIDUOUS TREE
 - ⊙ EVERGREEN TREE
 - ⊙ SIGN
 - ✕ FENCE
 - ⬆ WV WATER VALVE
 - FIELD REBAR

AS BUILT INFORMATION

CONTRACTOR: Moore & Cowart DATE: 2/15/95

STAKED BY: Walker Surveying Co. DATE: 8/23/95

INSPECTED BY: Tierra West Dev. DATE: 8/23/95

VERIFICATION BY: Walker Surveying DATE: 8/23/95

DRAWINGS BY: Kemper - Vaughan DATE: 11/28/94

MICRO-FILM INFORMATION

RECORDED BY: K-V - CADD

KEMPER-VAUGHAN CONSULTING ENGINEERS

3700 COORS RD. NW

ALBUQUERQUE, NEW MEXICO 87120

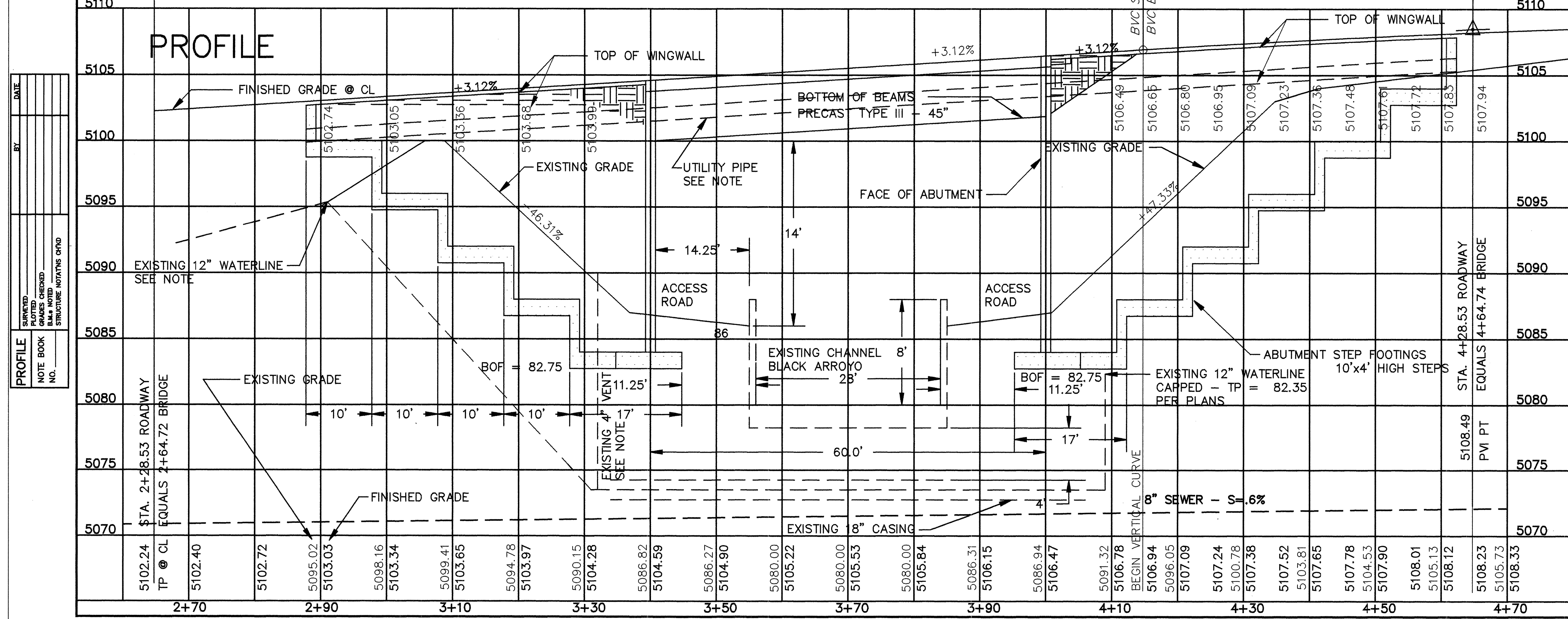
CITY OF ALBUQUERQUE

PUBLIC WORKS DEPARTMENT

ENGINEERING DIVISION

TITLE: BRIDGE PLAN & LONGITUDINAL ELEVATION SEVEN BAR LOOP/BLACK ARROYO

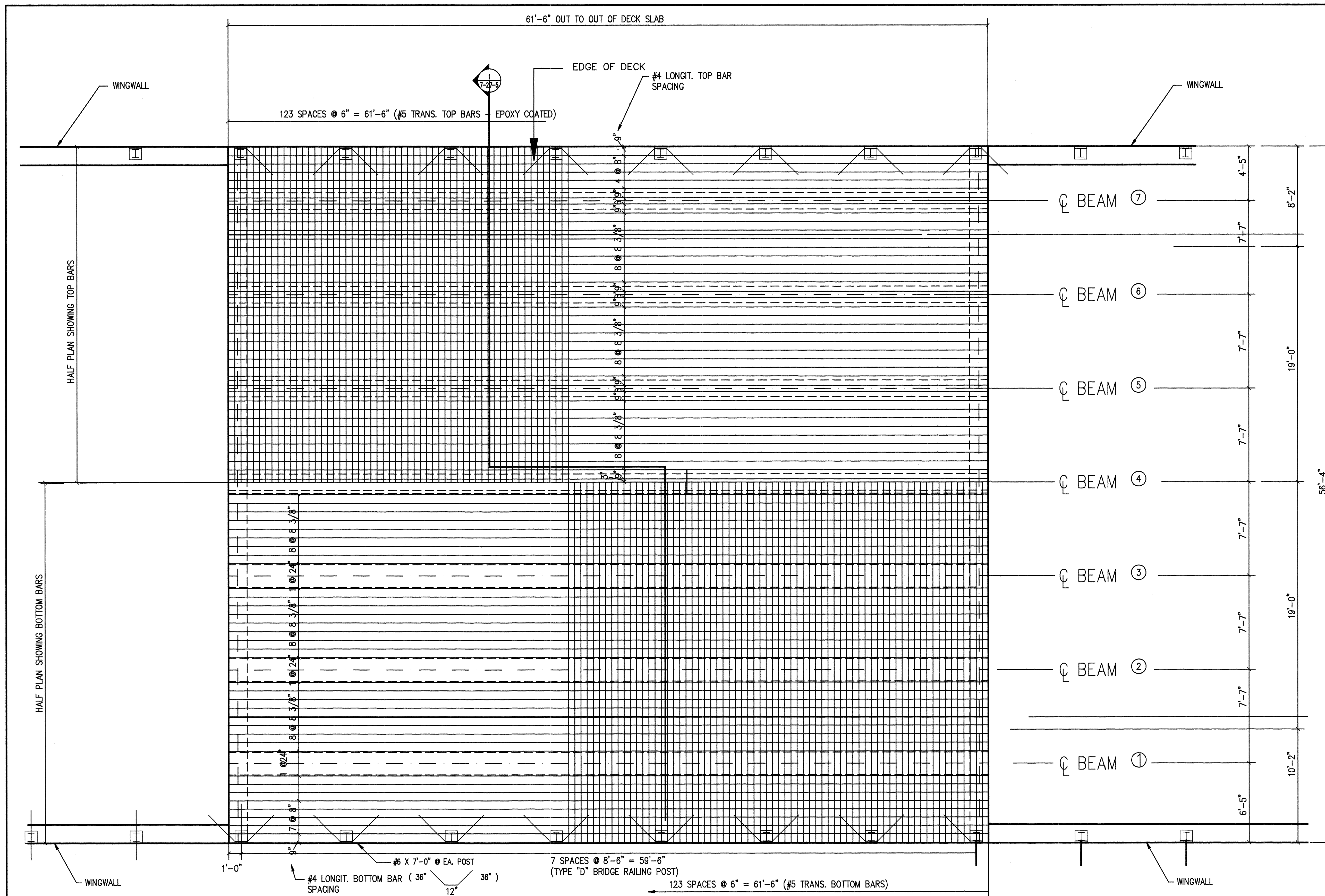
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	Sharon Biazar	11-10-95			
Trans. Dev.	Sharon Biazar	12-01-95			
Utility Dev.	Sharon Biazar	12-01-95			
Hydrology	Sharon Biazar	12-01-95			
DRAWING NO.	5010.92	MAP NO.	B-13	SHEET	3 OF 11



DATE: 11/28/94

SHEET REF. FOR SECTIONS & DETAILS

7-1



DECK SLAB REINFORCEMENT HALF PLANS

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

1/4" = 1'-0"

RECORD DRAWING	
DATE: 2/29/95	DRAFTED BY: SHAHRAM BIAZAR
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

DATE: 11/9/94	SHEET REF. FOR SECTIONS & DETAILS: 7-2
---------------	--

AS BUILT INFORMATION	
CONTRACTOR: Neale/Cowart	DATE: 2/15/95
STAKED BY: Walker Surveying	DATE: 8/23/95
INSPECTED BY: Tierra West Dev.	DATE: 8/23/95
VERIFICATION BY: Walker Surveying	DATE: 11/28/94
DRAWINGS BY: Kemper-Vaughan	DATE: 11/28/94
MICRO-FILM INFORMATION	
RECORDED BY:	
NO.:	K-V - CADD
KEMPER-VAUGHAN CONSULTING ENGINEERS 3700 COORS RD. NW ALBUQUERQUE, NEW MEXICO 87120	

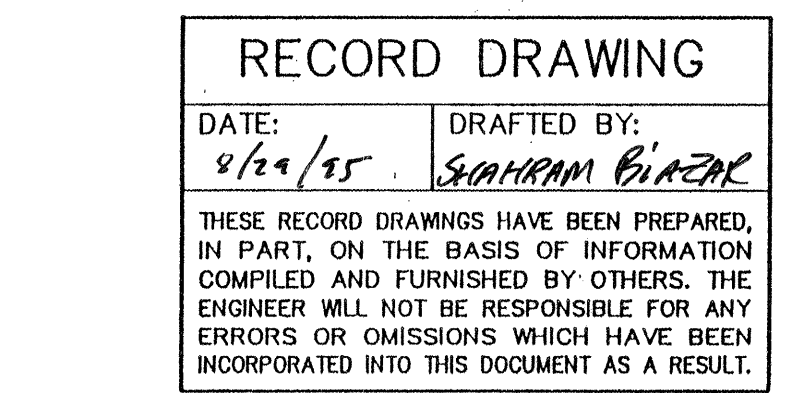
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: DECK SLAB REINFORCEMENT PLAN
SEVEN BAR LOOP/BLACK ARROYO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	NA	1-10-95			
Trans. Dev.	NA	12-20-94			
Utility Dev.	NA	11/10/94			
Hydrology	NA	12-21-94			
DRAWING NO.	5010.92		MAP NO.	B-13	
			SHEET	4	OF 11

BENCH MARKS	
NGS MONUMENT	"BLACK 2"
ELEVATION=	5213.926
SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	
ENGINEER'S SEAL	
REMARKS	BY
NO.	DATE
DESIGNED BY	RICHARD G. VAUGHAN, PE
DRAWN BY	
CHECKED BY	



AS BUILT INFORMATION	
CONTRACTOR <i>Moore / Covert</i>	DATE
STAKED BY <i>Walter Surveying</i>	DATE <i>2/15/95</i>
INSPECTED BY <i>Tierra West Inc</i>	DATE <i>8/23/95</i>
VERIFICATION BY <i>Walter Surveying</i>	DATE <i>8/23/95</i>
DRAWINGS BY <i>Kempel - Vaughan</i>	DATE <i>11/28/94</i>
MICRO-FILM INFORMATION	

RECORDED BY _____
NO. _____ K-V - CADD _____
KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: BLBR7-3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: DECK SLAB ELEVATION
SEVEN BAR LOOP/BLACK

APPROVALS	ENGINEER	DATE	APPRO
D.R.C. Chair	<i>B.G. Gorkhly</i>	<i>1-10-95</i>	
Trans. Dev.	<i>MA KHD</i>	<i>12-01-91</i>	
Utility Dev.	<i>GRK</i>	<i>11/1/94</i>	
Hydrology	<i>JPC</i>	<i>12-21-94</i>	
LS DRAWING NO.	5010.92		MAP NO. B-13

"AS-BUILT" (HORIZONTAL
AND VERTICAL LOCATION ONLY)

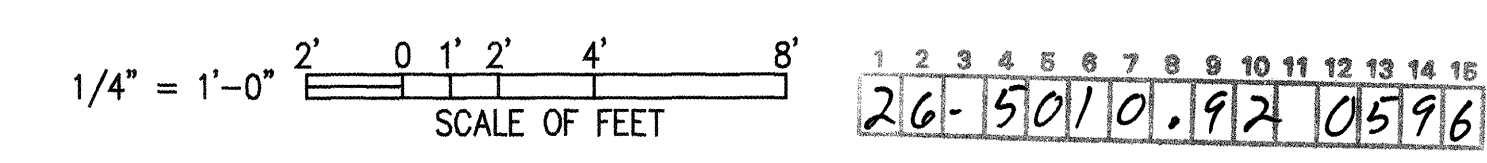
STEPHEN E. WALKER
NEW MECHANICAL
REGISTERED PROFESSIONAL SURVEYOR
8-23-95

SURVEY INFORMATION			BENCH MARKS
NO.	FIELD NOTES		
	BY	DATE	
	<i>Walter Longpré</i>	<i>50</i>	NGS MONUMENT
			"BLACK 2"
			ELEVATION= 5213.926

UNIVERSITY OF MICHIGAN LIBRARY
MAR 30 1967
11-15-4

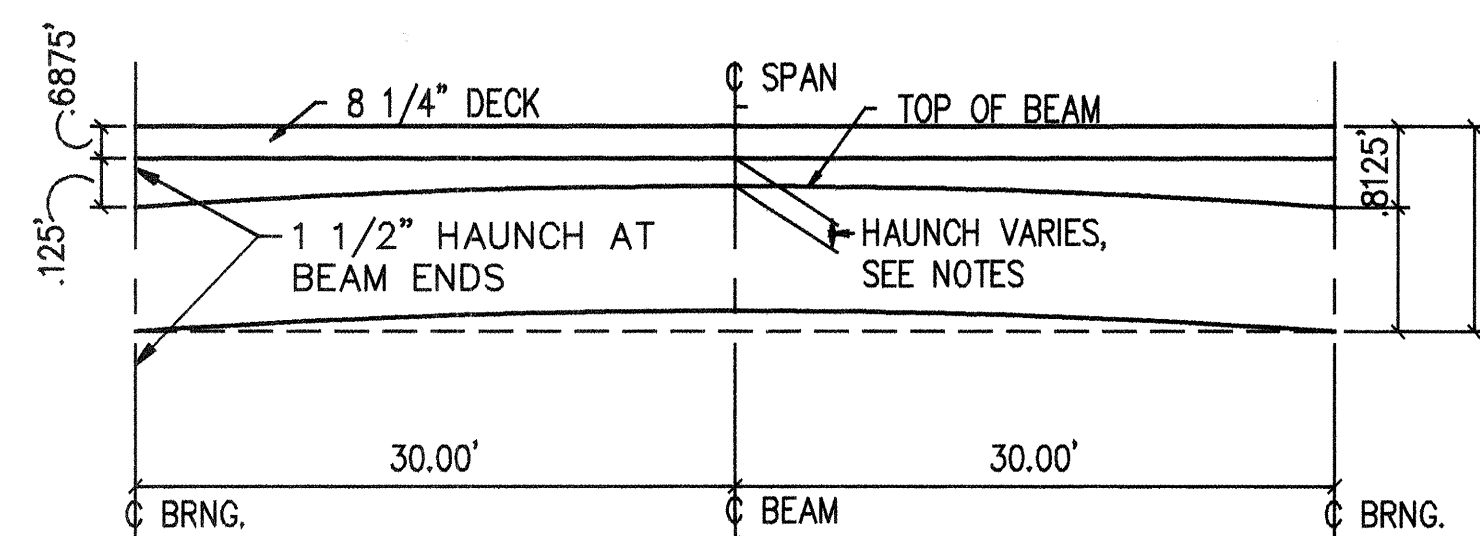
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SCALE: $1/4" = 1'-0"$



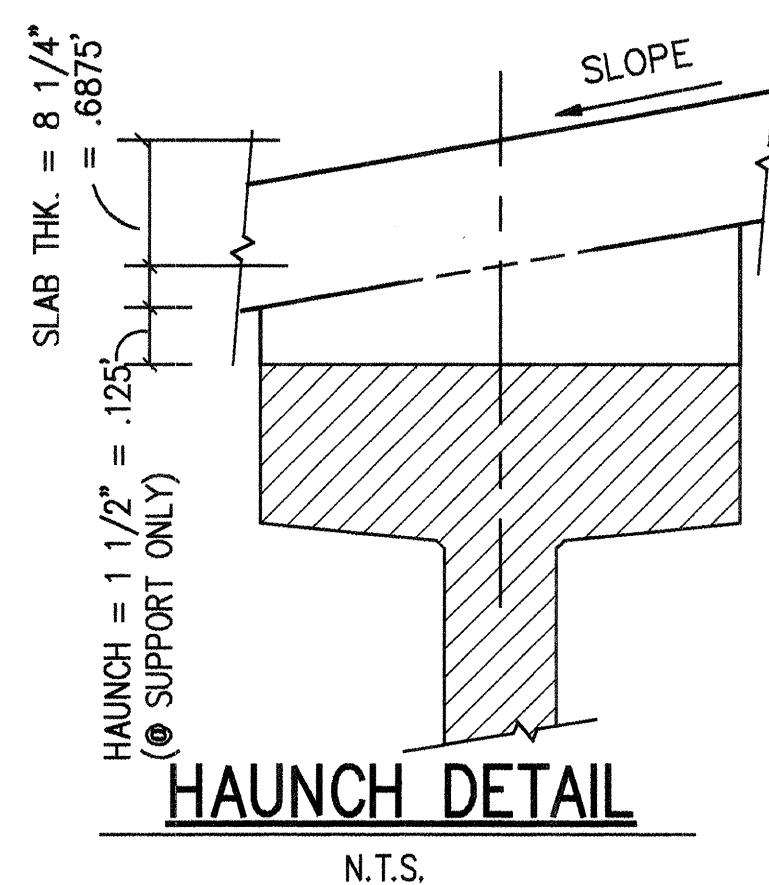
DATE:	11/9/94
SHEET REF. FOR SECTIONS & DETAILS	7-3

2194		
MAP NO. B-13	SHEET 5	OF 11



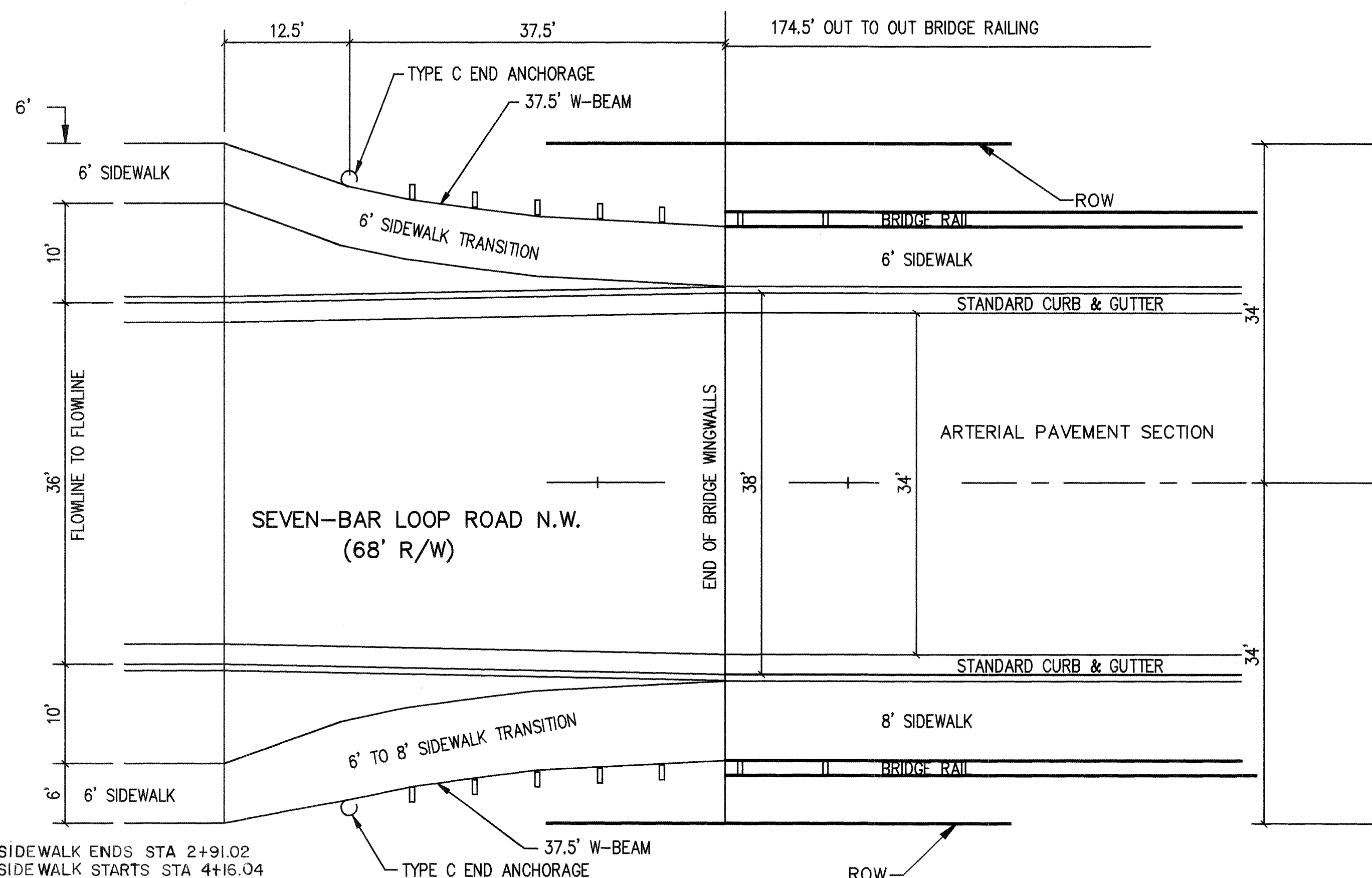
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N.T.S.



HAUNCH DETAIL

N.T.S.

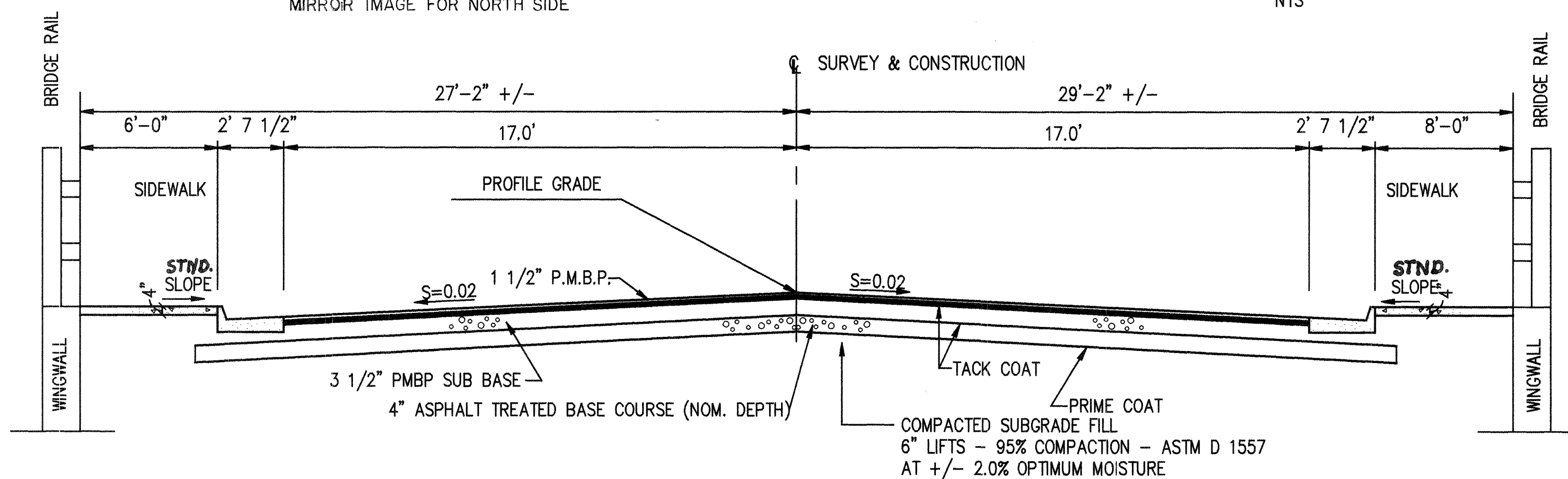


SIDEWALK ENDS STA 2+91.02
SIDEWALK STARTS STA 4+16.04
SEE SHEET 11 FOR REFERENCE

TRANSITION AT BRIDGE WINGWALL ENDS - W-BEAM INSTALLATION

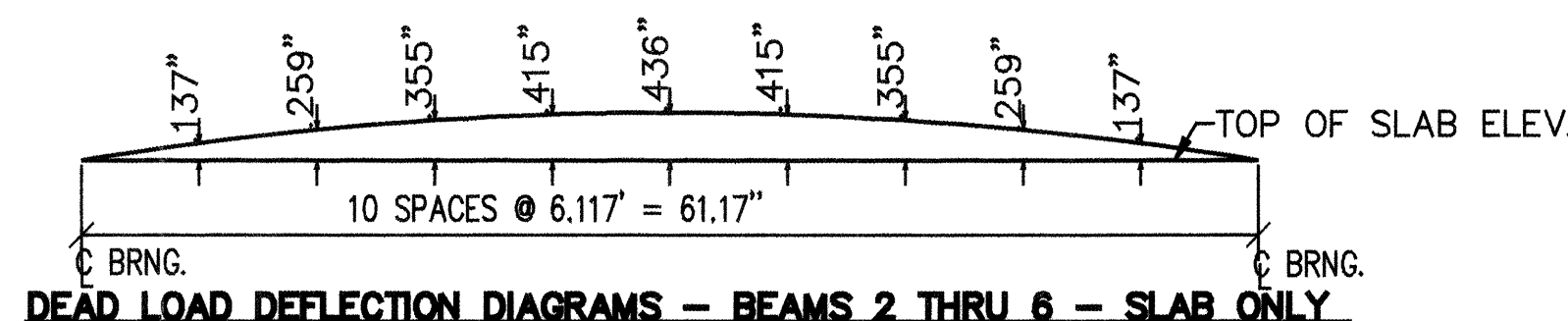
MIRROR IMAGE FOR NORTH SIDE

NTS

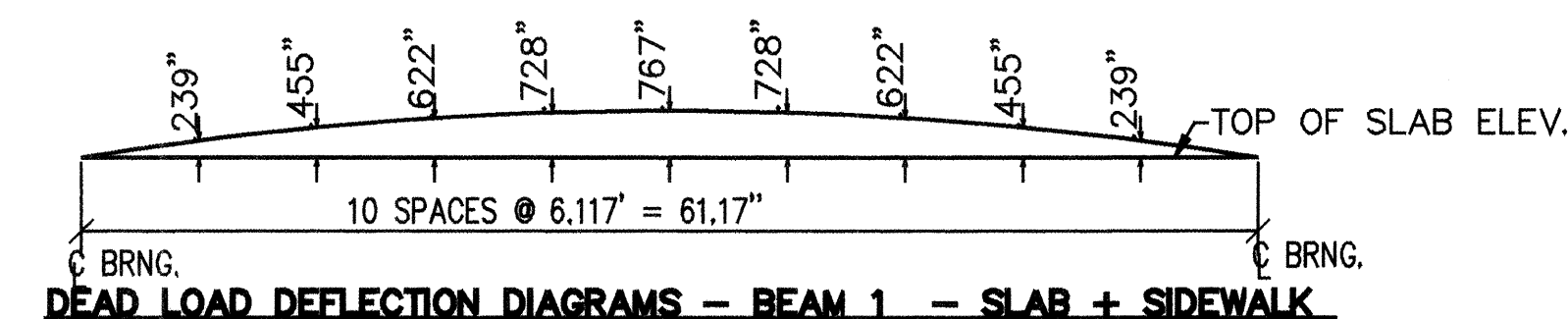


TYPICAL NEW ROADWAY SECTION @ BRIDGE

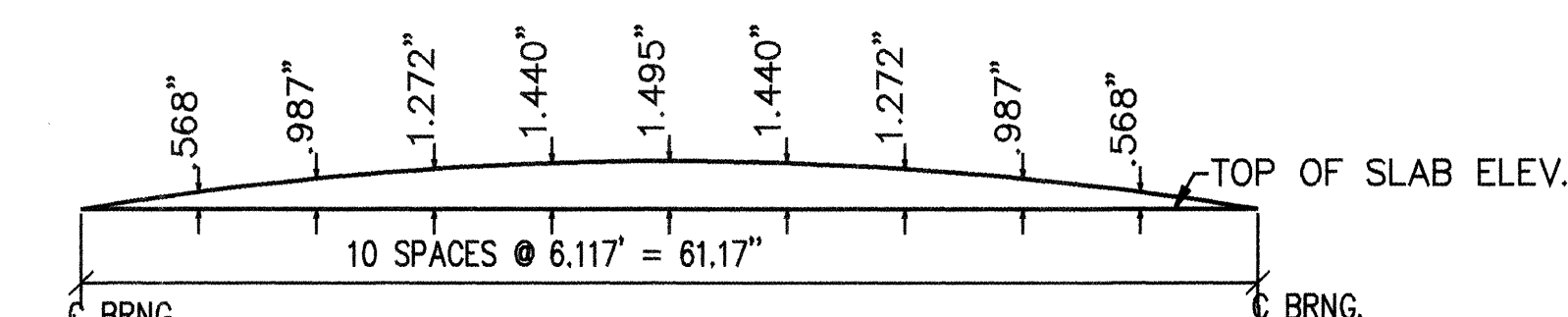
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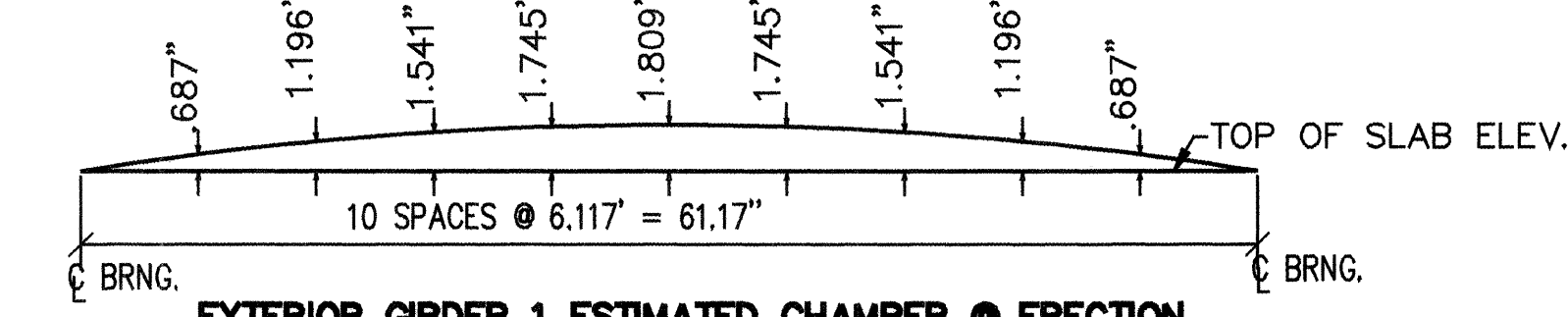
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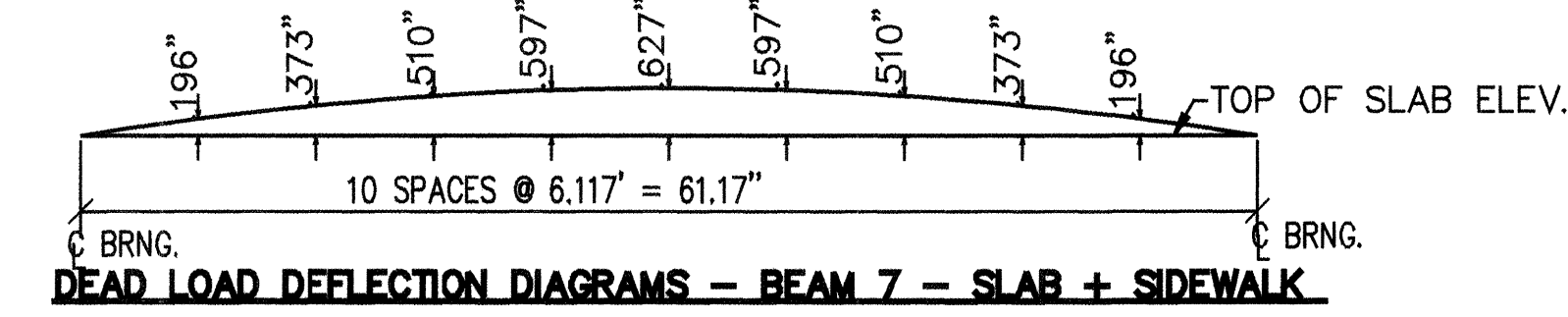
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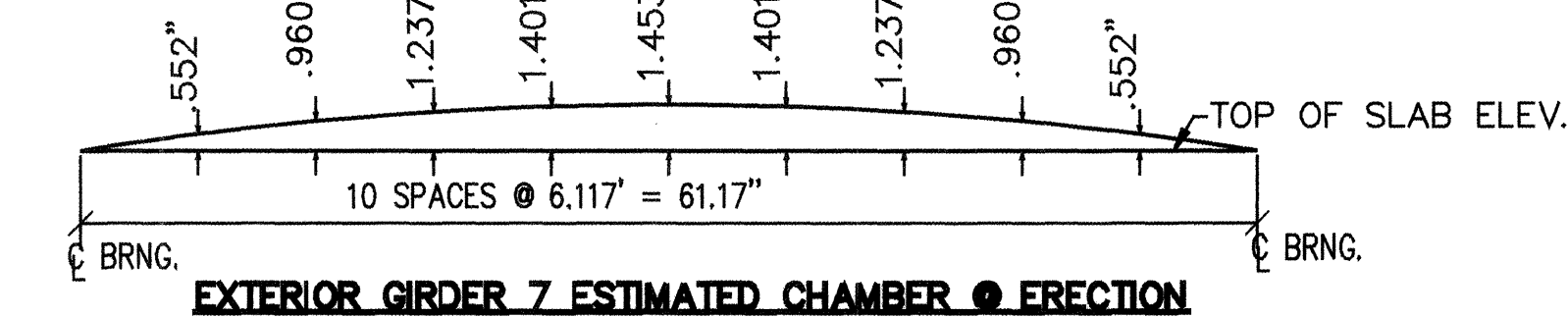
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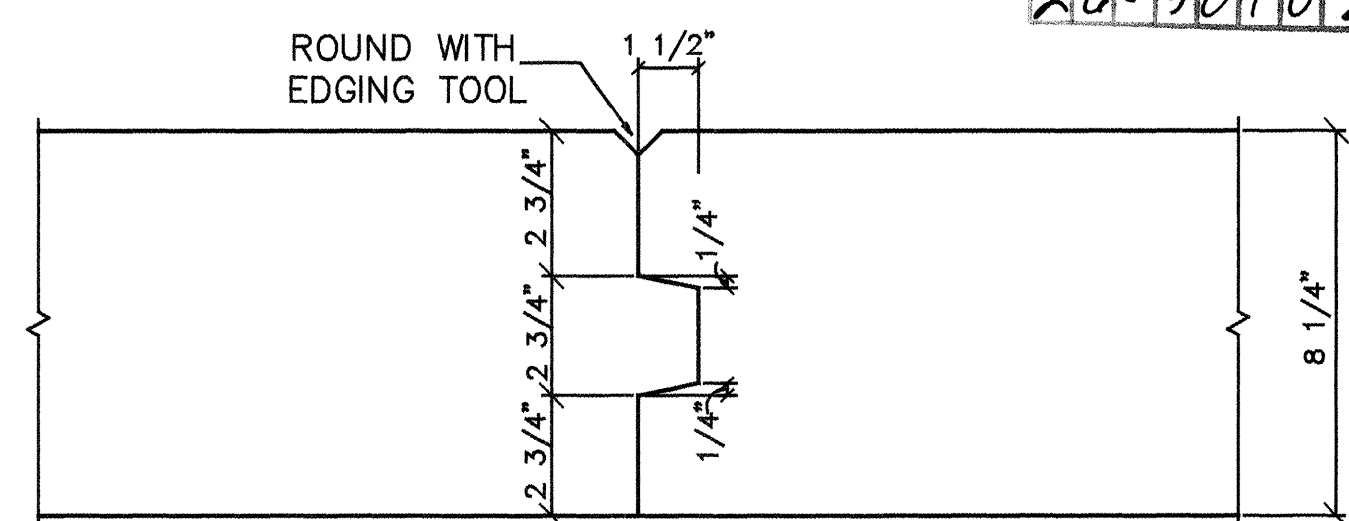
N.T.S.



N.T.S.

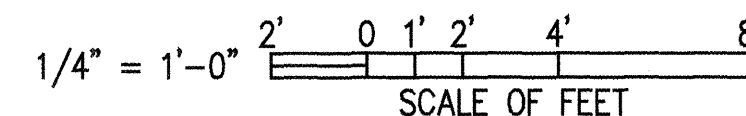


N.T.S.



TYPICAL CONSTRUCTION JOINT

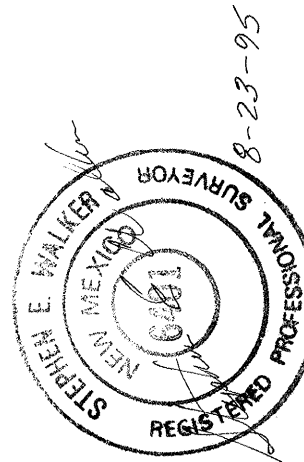
NOT TO SCALE



NOTE:

1. VERIFICATION OF BEAM CAMBER. AFTER THE BEAMS ARE IN PLACE AND BEFORE THE SCREEDS ARE SET, A PROFILE SHALL BE TAKEN ALONG THE TOP OF EACH LINE OF BEAMS. ANY ADJUSTMENT IN ELEVATION SHALL BE TAKEN UP IN THE HAUNCH DIRECTLY ABOVE THE BEAM. IF THE ACTUAL BEAM CAMBER DIFFERS FROM THAT SHOWN ON THE PLANS SUCH THAT A DEFICIENT SLAB THICKNESS WOULD RESULT, THE ADJUSTMENTS SHALL BE MADE AS DIRECTED BY THE PROJECT MANAGER.
2. TO COMPENSATE FOR DEAD LOAD DEFLECTIONS DUE TO WEIGHT OF SLAB AND SUPERIMPOSED DEAD LOAD, SET SCREEDS ABOVE DECK ELEVATIONS BY DIMENSIONS SHOWN IN DIAGRAMS. ALL DIMENSIONS SHOWN IN DEAD LOAD DEFLECTION DIAGRAMS ARE IN FEET.

"AS BUILT" (HORIZONTAL AND VERTICAL LOCATION ONLY)



RECORD DRAWING

DATE: 2/29/95 DRAFTED BY: SHAHRAM BIKZAR
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

AS BUILT INFORMATION
CONTRACTOR: MUECKE / LOWERY DATE: 2/15/95
STAKED BY: Walker Surveying Co. DATE: 2/15/95
INSPECTED BY: Tierra West Dev. DATE: 8/23/95
VERIFICATION BY: Walker Surveying Co. DATE: 8/23/95
DRAWINGS BY: Kemper-Vaughan DATE: 11/28/94
MICRO-FILM INFORMATION
RECORDED BY: K-V - CADD
NO. 11-28-94
KEMPER-VAUGHAN CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

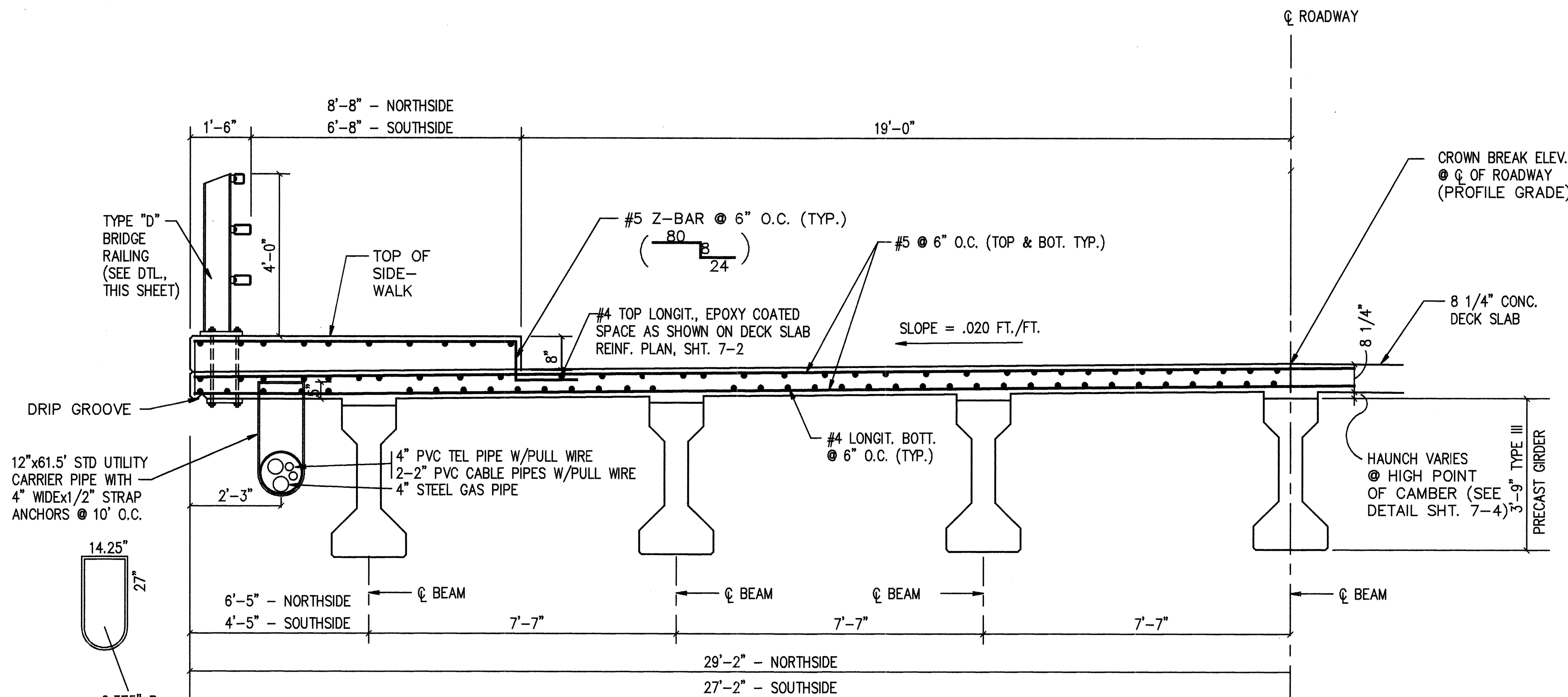
COMPUTER FILE: BLBR7-4

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: DECK DETAILS - ROAD SECTION
SEVEN BAR LOOP/BLACK ARROYO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	12-10-95				
Trans. Dev.	12-08-94				
Utility Dev.	12-16-94				
Hydrology	12-21-94				
DRAWING NO.	5010.92	MAP NO.	B-13	SHEET	6 OF 11

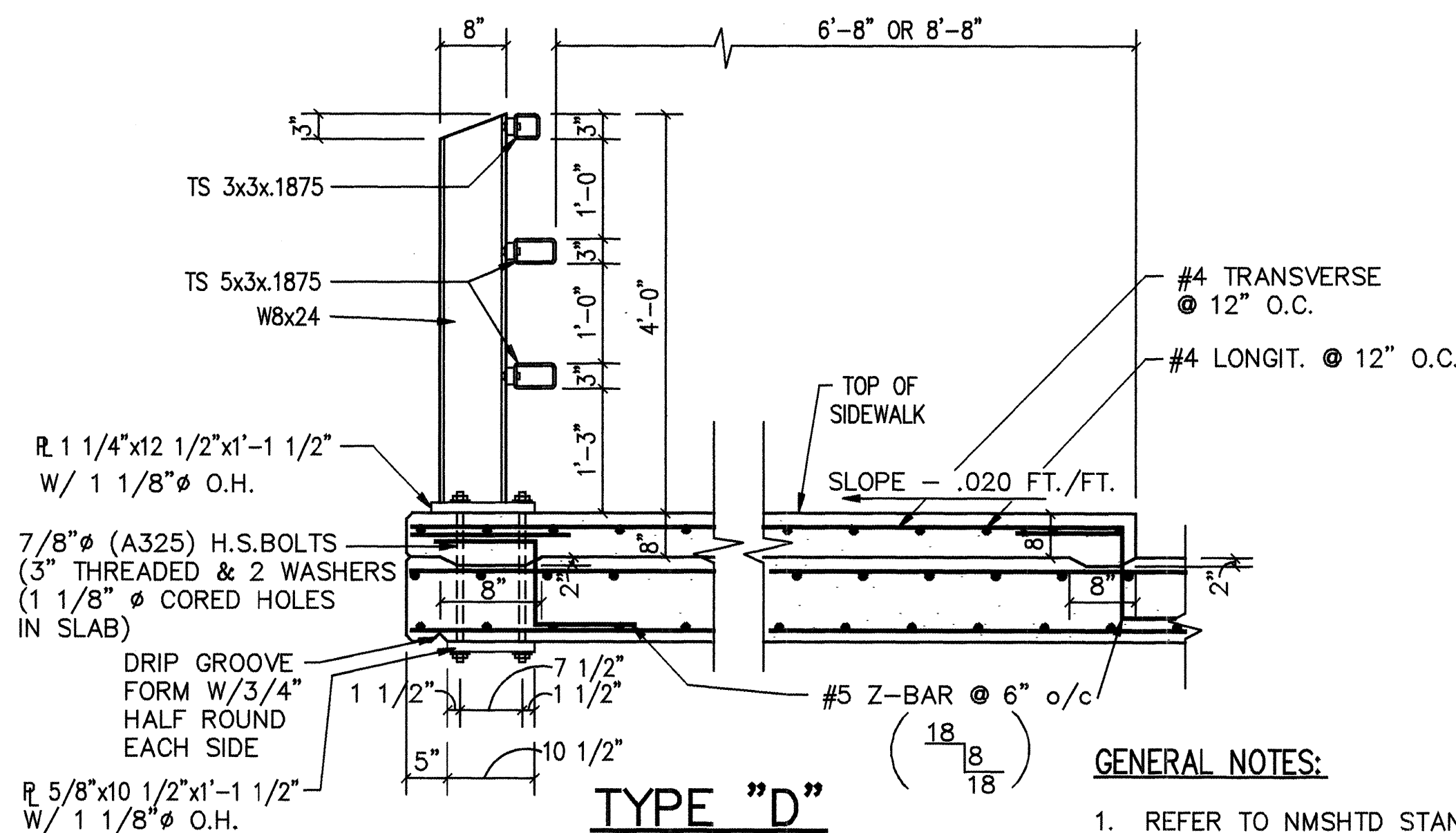
DATE: 11/28/94
SHEET REF. FOR SECTIONS & DETAILS
7-4



HALF SECTION - SOUTH SIDE

TRANSVERSE SECTION

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



TYPE "D" BRIDGE RAILING SECTION

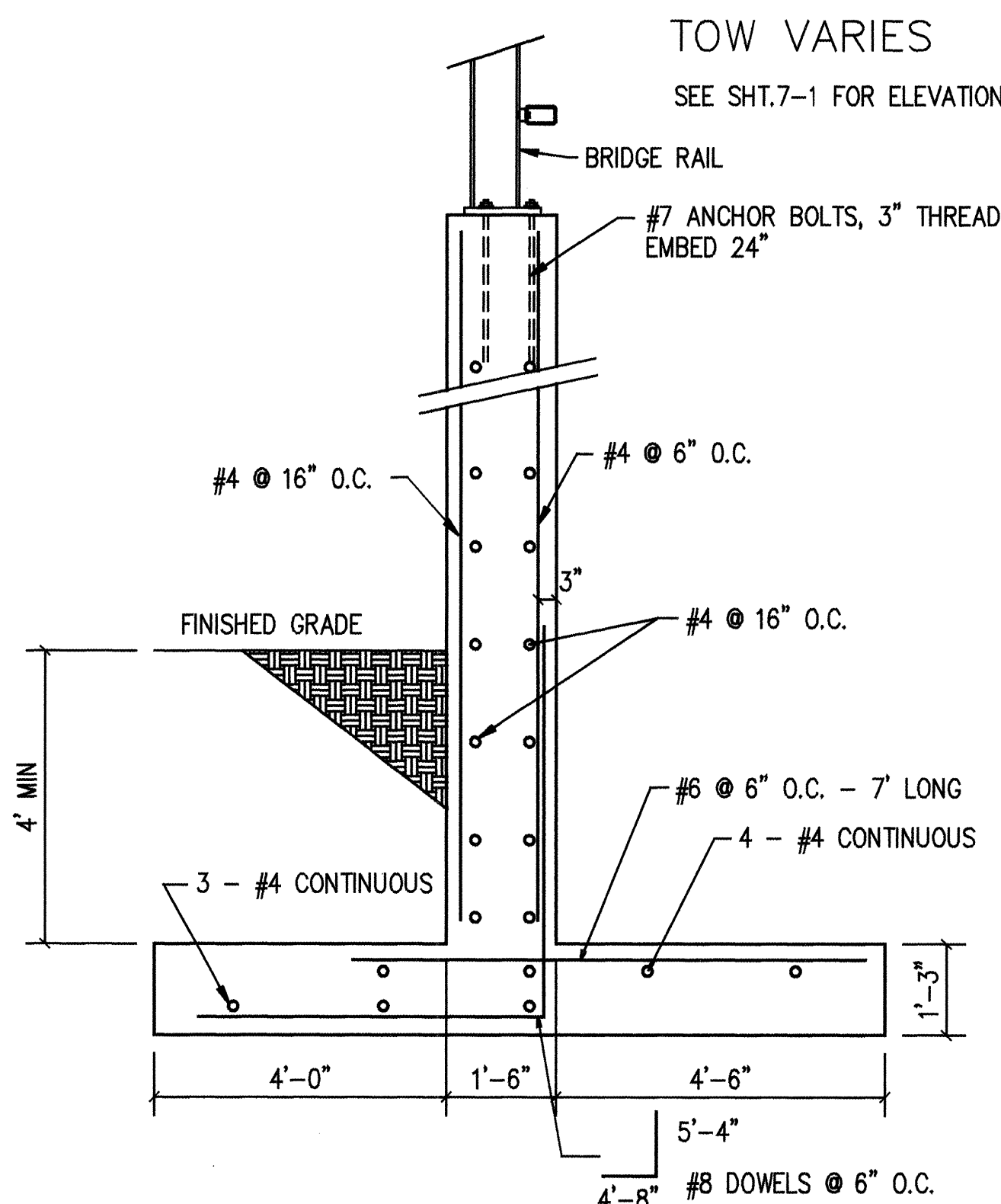
NOT TO SCALE

NOTE: SEE NMSHTD STANDARD DETAIL SERIAL BMR-005-06 FOR DETAILS NOT SHOWN

ON WINGWALL ANCHOR BRIDGE RAIL WITH #7 ANCHOR BOLTS EMBEDDED 24"

GENERAL NOTES:

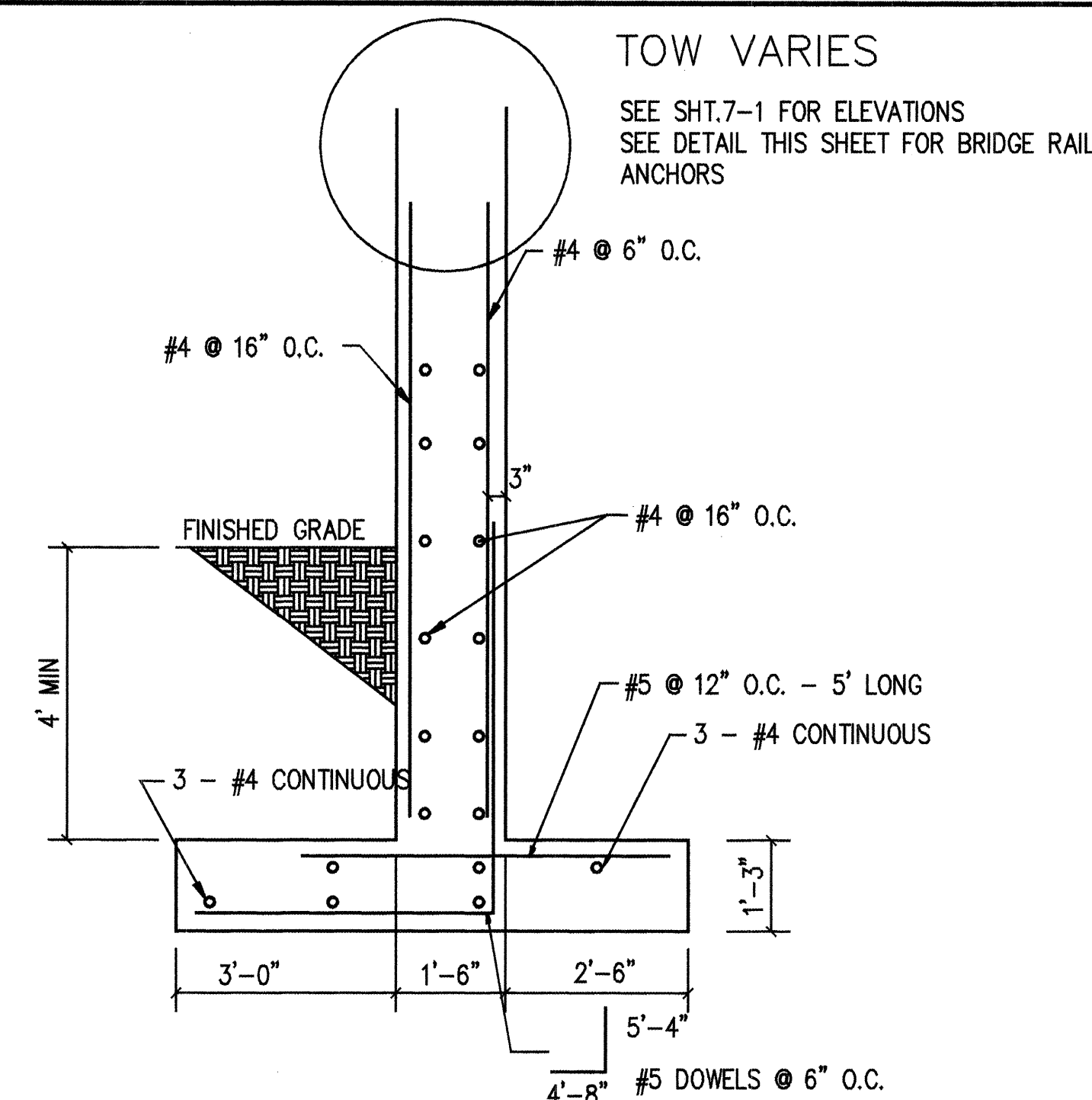
- REFER TO NMSHTD STANDARD DETAIL SERIAL BMR-001-10 FOR DETAIL OF TRANSITION CONNECTION OF METAL BARRIER RAILING TO BRIDGE RAILING TYPE "D".
- THE CONTRACTOR HAS THE OPTION TO USE STEEL STAY-IN-PLACE FORMS ON THIS PROJECT PROVIDED THAT THE DETAILS AND DESIGN CALCULATIONS FOR FORMS ARE APPROVED BY THE PROJECT MANAGER, INCLUDING THE USE OF EPOXY COATED REBAR FOR THE BOTTOM MAT OF REINFORCEMENT AT NO ADDITIONAL COST TO THE PROJECT.



BOF = 82.75' & 86.75'
TYPICAL WINGWALL - FIRST TWO STEPS

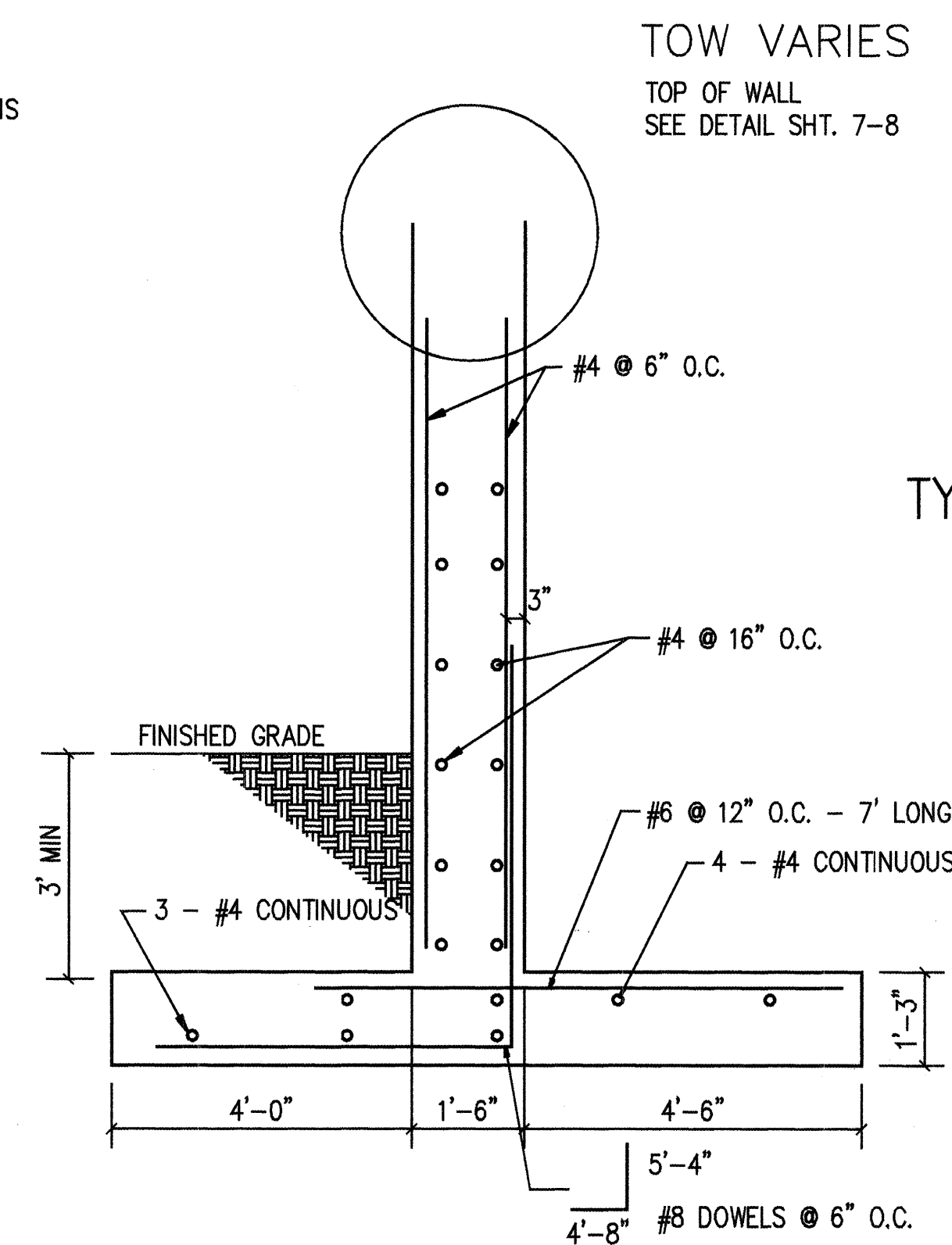
SCALE: 1/2" = 1'-0"

1/2" = 1'-0" 0 1' 2' 6'
SCALE OF FEET



BOF = 90.75, 94.75, 98.75, 102.75
TYPICAL WINGWALL - ALL REMAINING STEPS

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



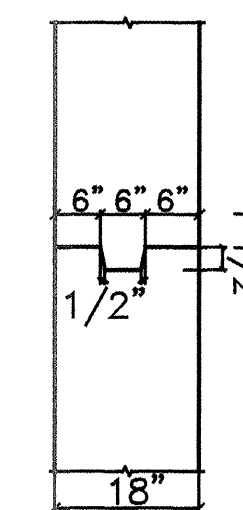
BOF = 82.75'
TYPICAL FRONT ABUTMENT WALL

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

RECORD DRAWING	
DATE: 8/22/95	DRAFTED BY: SHAHRAM BIAZAR
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

DATE:	11/9/94
SHEET REF. FOR SECTIONS & DETAILS	7-5

TYPICAL WALL CONST JOINT
AT 8' MIN INTERVALS NTS



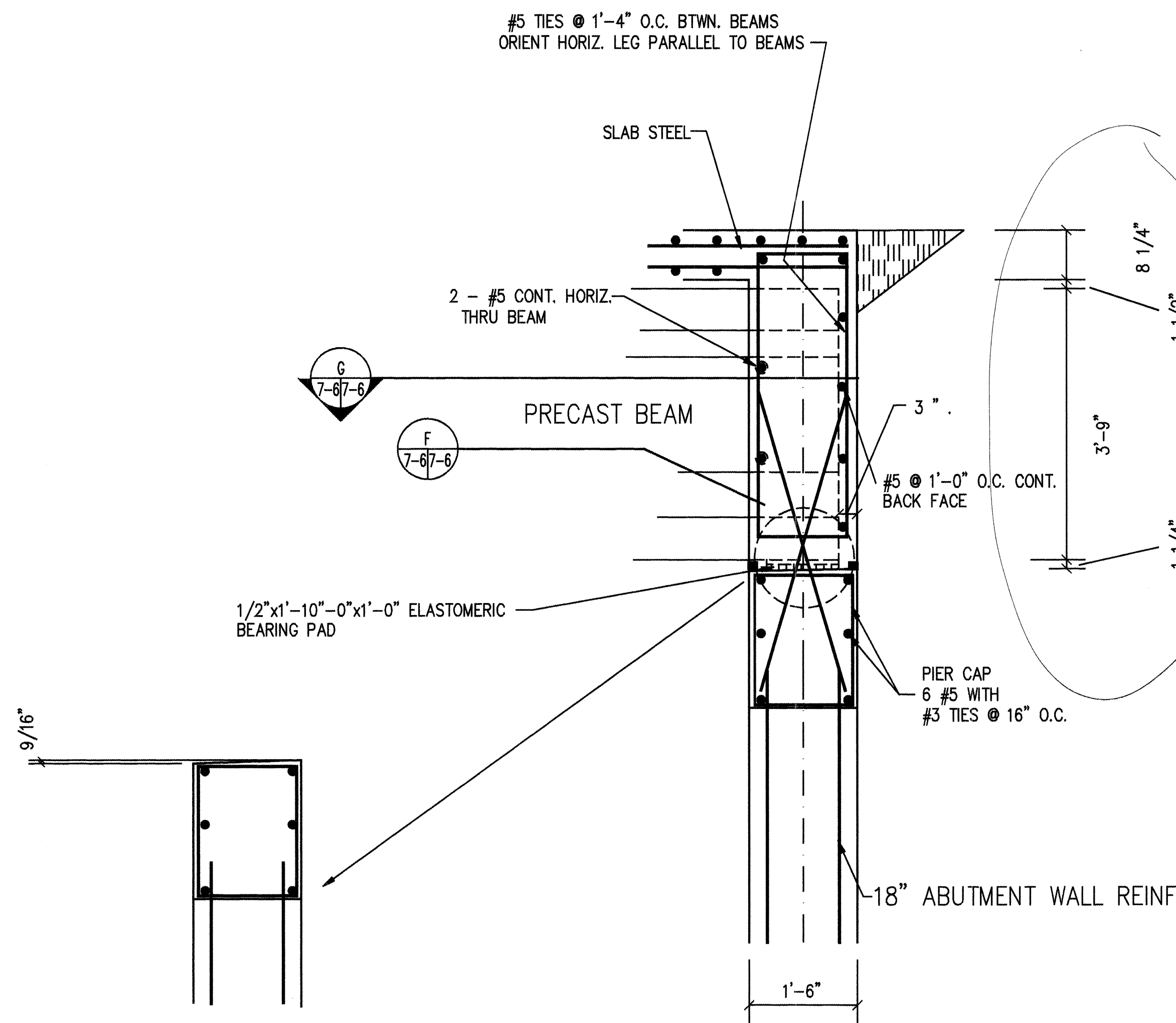
AS BUILT INFORMATION	
CONTRACTOR: Meele / Cowart	DATE: 2/15/95
STAKED BY: Walker Surveying	DATE: 8/23/95
INSPECTED BY: Tierra West Dev.	DATE: 8/23/95
VERIFICATION BY: Walker Surveying	DATE: 11/28/94
DRAWINGS BY: Kemper-Vaughan	DATE: 11/28/94
MICRO-FILM INFORMATION	
RECORDED BY:	
NO.:	K-V - CADD
KEMPER-VAUGHAN CONSULTING ENGINEERS 3700 COORS RD. NW ALBUQUERQUE, NEW MEXICO 87120	
COMPUTER FILE:	BLBR7-5

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		
TITLE: BRIDGE TRANSVERSE SECTION - WINGWALL SECTIONS SEVEN BAR LOOP/BLACK ARROYO		
APPROVALS	ENGINEER	DATE
D.R.C. Chair	10/10/95	
Trans. Dev.	12/08/94	
Utility Dev.	11/16/94	
Hydrology	12-21-94	
DRAWING NO.	5010.92	MAP NO. B-13
SHEET	7	OF 11

BENCH MARKS	
NGS MONUMENT	"BLACK 2" ELEVATION= 5213.926

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	

ENGINEER'S SEAL	
DESIGNED BY	RICHARD G. VAUGHAN, PE
DRAWN BY	
CHECKED BY	



PIER CAP SLOPED SURFACE

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

SECTION @ ABUTMENT

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

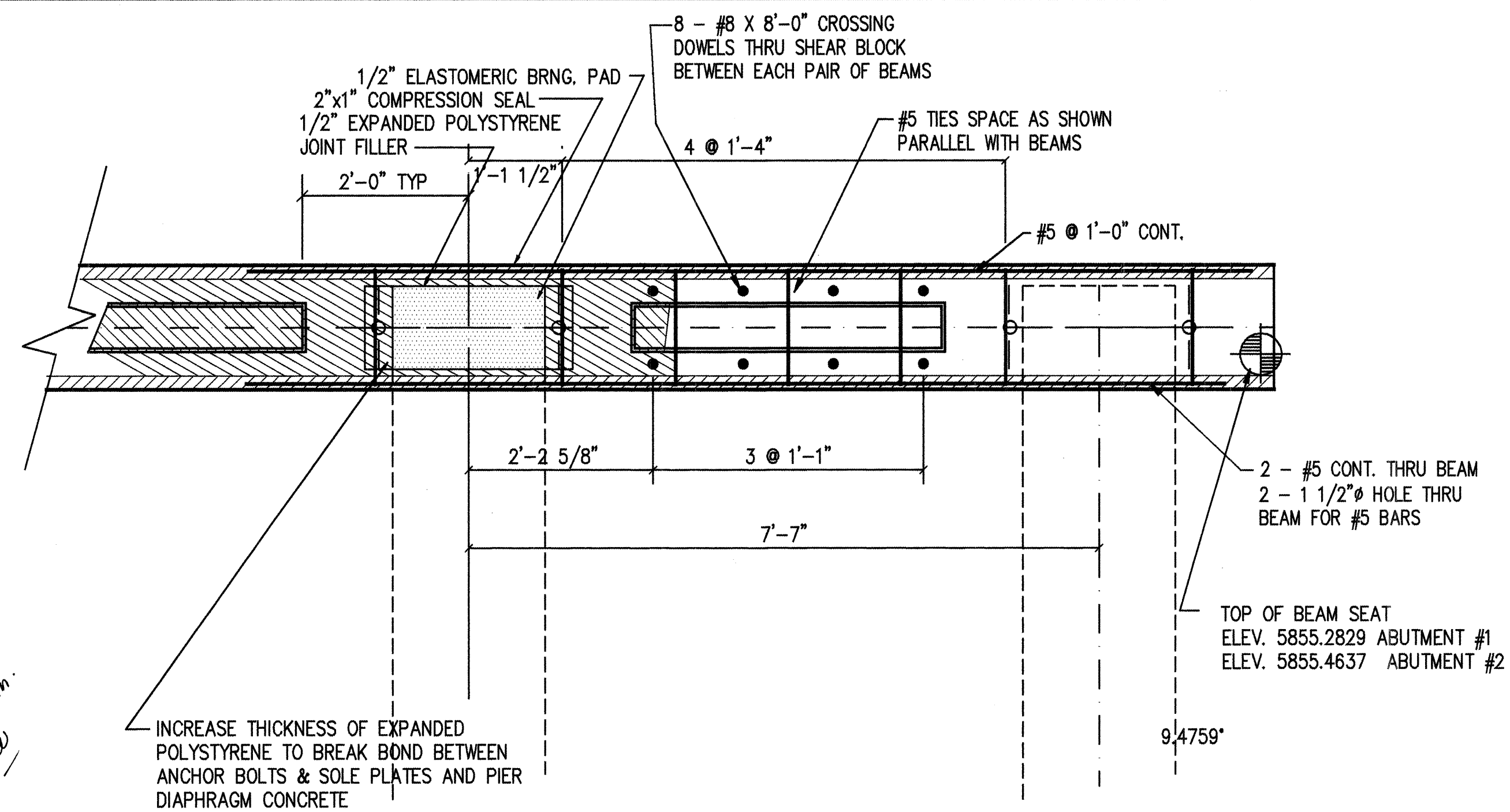
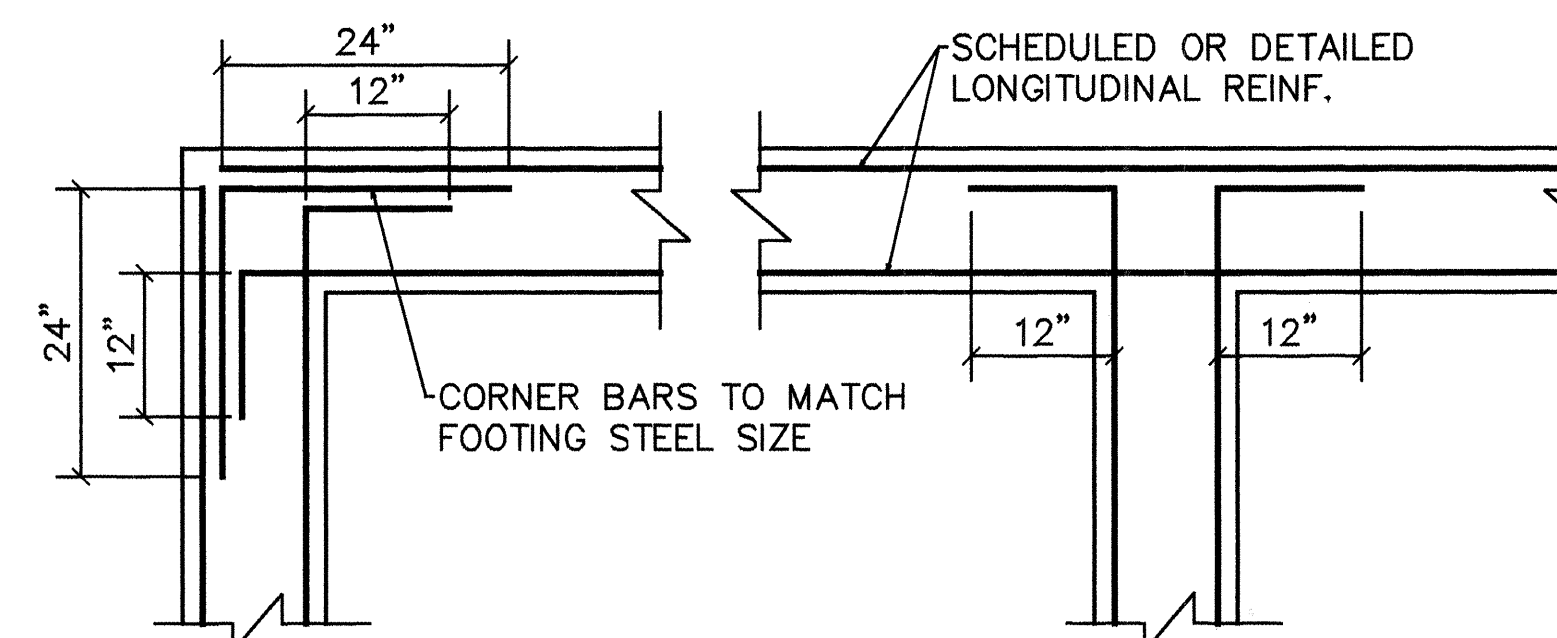


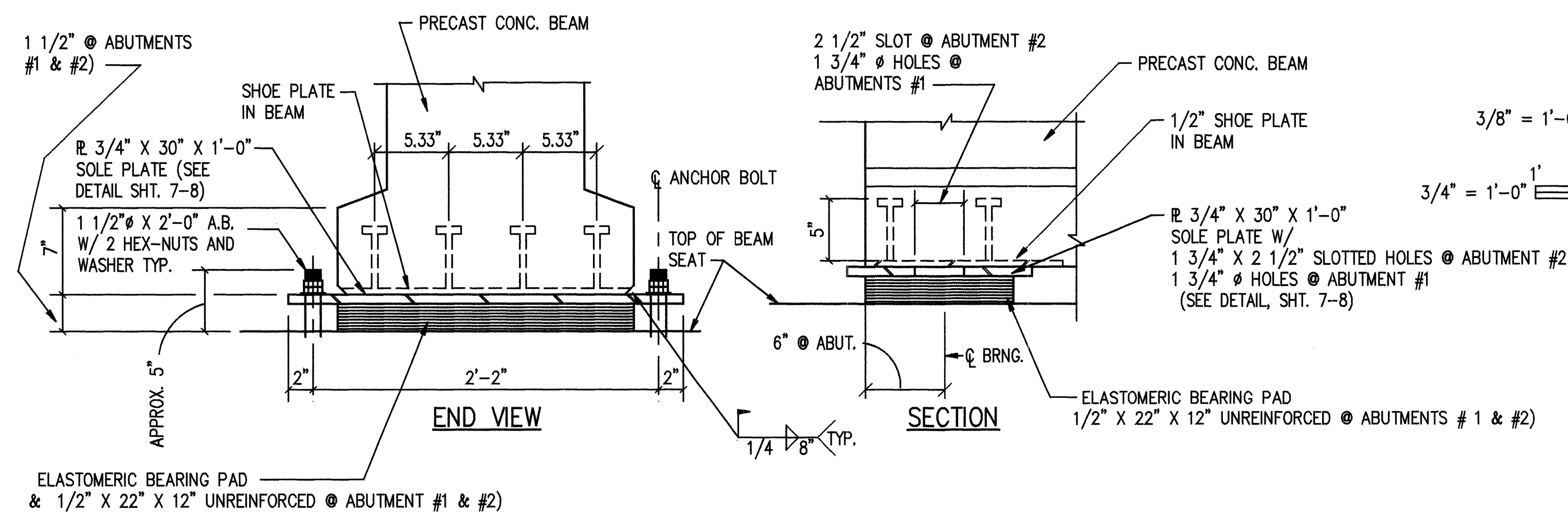
DIAGRAM PLAN DETAIL AT ABUTMENTS

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



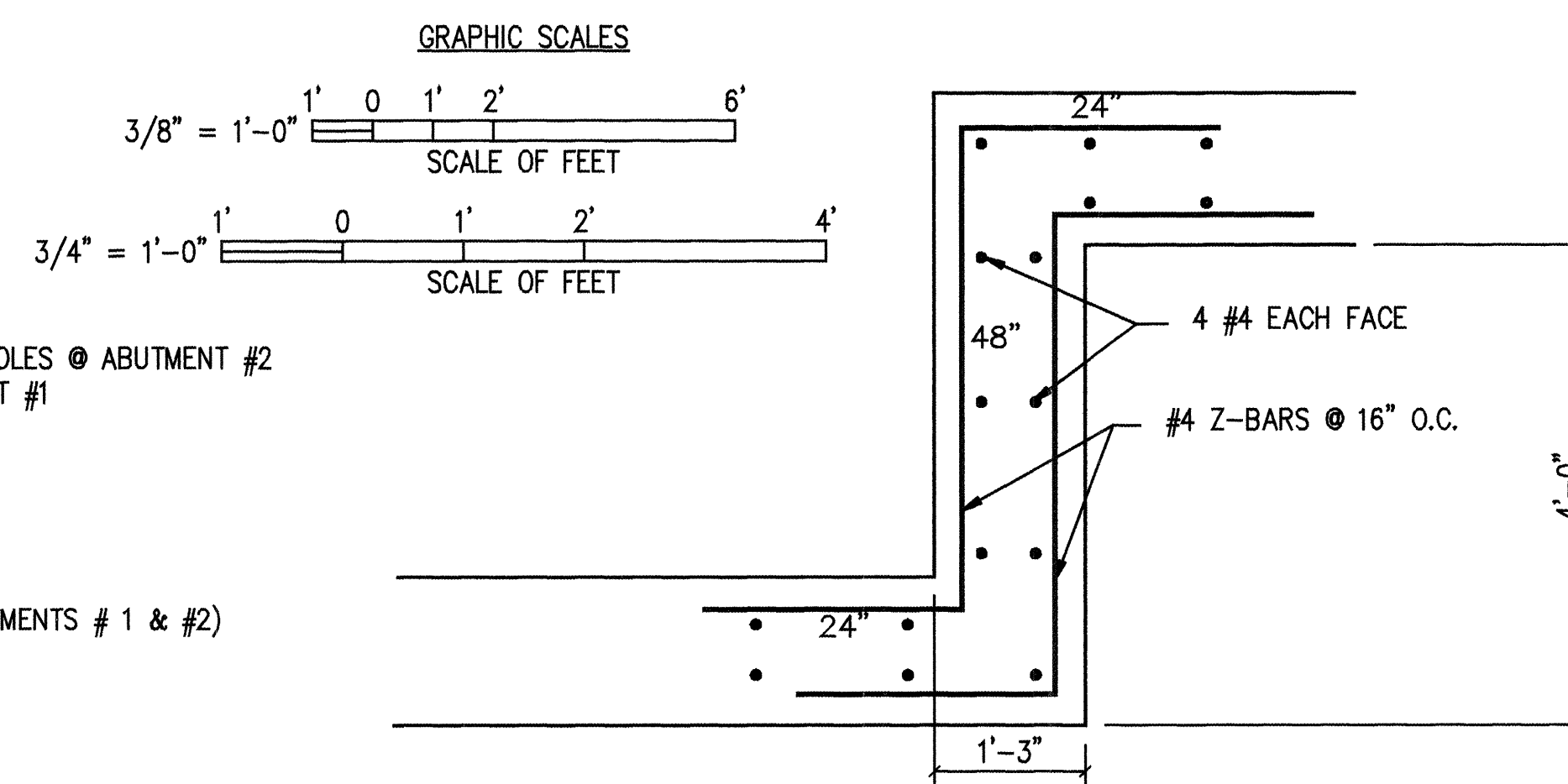
TYPICAL CORNER REINFORCING IN FOOTINGS & WALLS

N.T.S.



BEAM BEARING AND ANCHORAGE DETAILS

NOT TO SCALE



TYPICAL STEP FOOTING REINFORCEMENT

N.T.S.

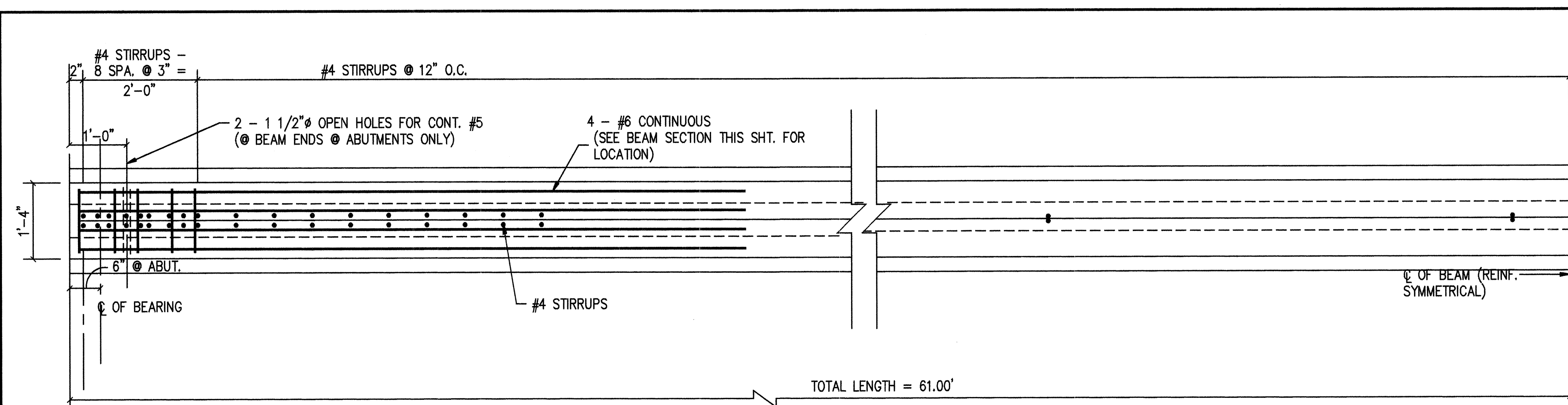
RECORD DRAWING	
DATE: 8/29/95	DRAFTED BY: SHAHAM BIZAR
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-5010.92 0896

AS BUILT INFORMATION	
CONTRACTOR: <i>Moele Co.</i>	DATE: <i>2/15/95</i>
STATED BY: <i>Walter Sweeney</i>	DATE: <i>8/23/95</i>
INSPECTED BY: <i>Tiera West</i>	DATE: <i>8/23/95</i>
VERIFICATION BY: <i>Walter Sweeney</i>	DATE: <i>8/23/95</i>
DRAWINGS BY: <i>Kemper-Vaughan</i>	DATE: <i>11/22/94</i>
MICRO-FILM INFORMATION	
RECORDED BY:	NO.
K-V - CADD	
KEMPER-VAUGHAN CONSULTING ENGINEERS 3700 COORS RD. NW ALBUQUERQUE, NEW MEXICO 87120	
COMPUTER FILE:	BLBR7-8

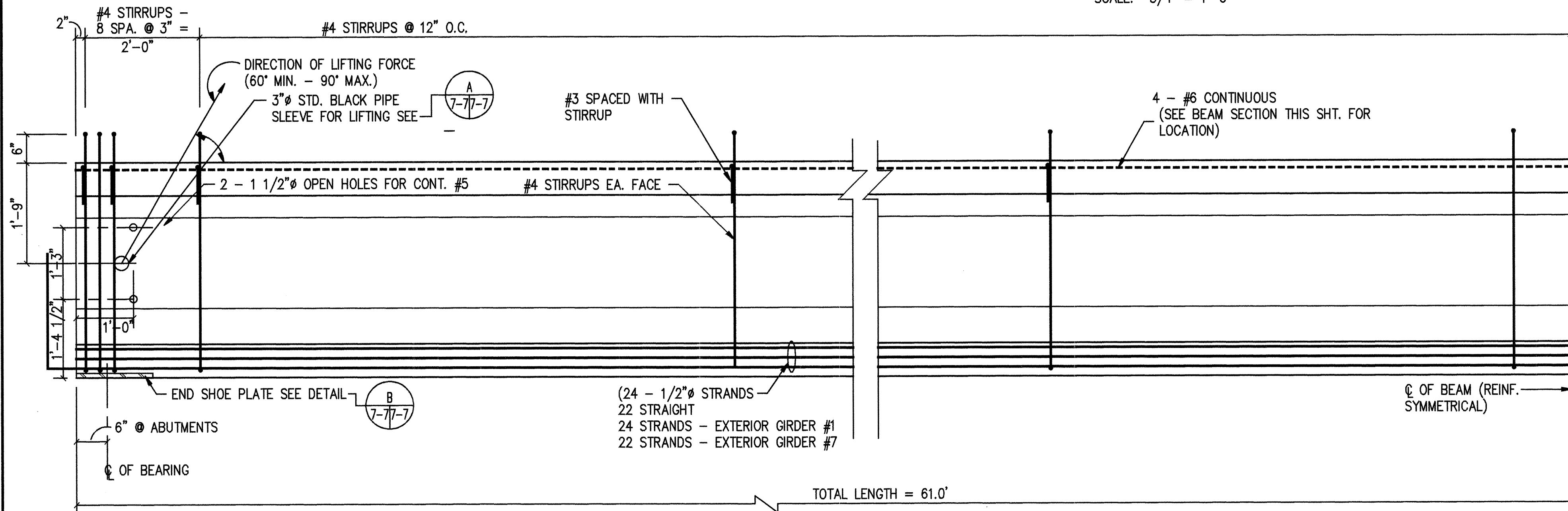
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION		
TITLE:	MISC DETAILS SEVEN BAR LOOP/BLACK ARROYO	
APPROVALS	ENGINEER	DATE
D.R.C. Chief	<i>Walter Sweeney</i>	<i>11/22/94</i>
Trans. Div.	<i>Walter Sweeney</i>	<i>11/22/94</i>
Utility Div.	<i>Walter Sweeney</i>	<i>11/22/94</i>
Hydrology	<i>Walter Sweeney</i>	<i>11/22/94</i>
DRAWING NO.	5010.92	MAP NO. B-13
SHEET	8	OF 11

BENCH MARKS	
NCS MONUMENT "BLACK 2"	ELEVATION: 5213.926
SURVEY INFORMATION	
FILED BY	DATE
NO.	
ENGINEER'S SEAL	
REVISIONS	DESIGN
NO.	DATE
DESIGNED BY	DRAWN BY
CHECKED BY	



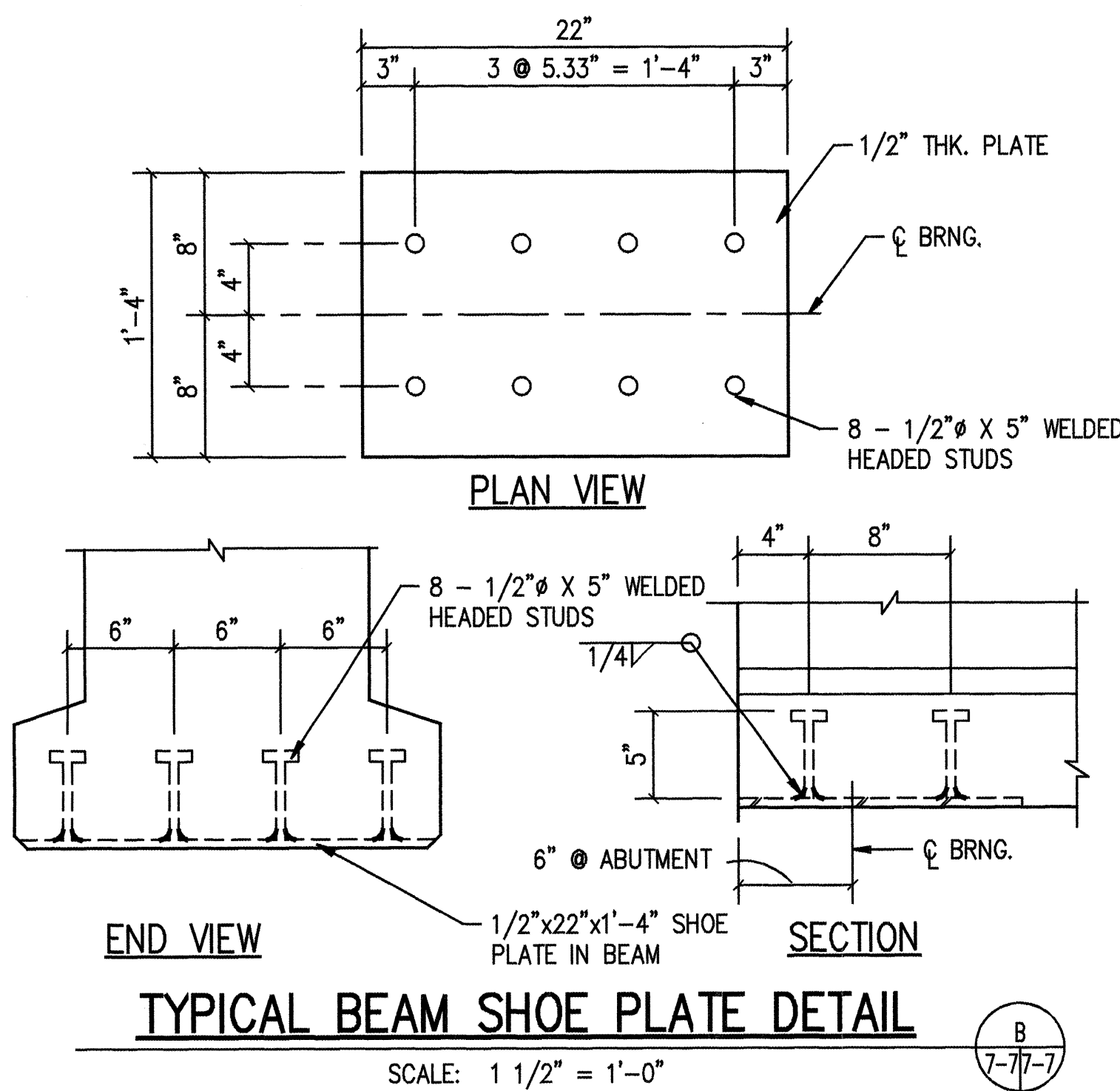
HALF PLAN - INTERIOR BEAM

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



LONGITUDINAL HALF SECTION - INTERIOR BEAM

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

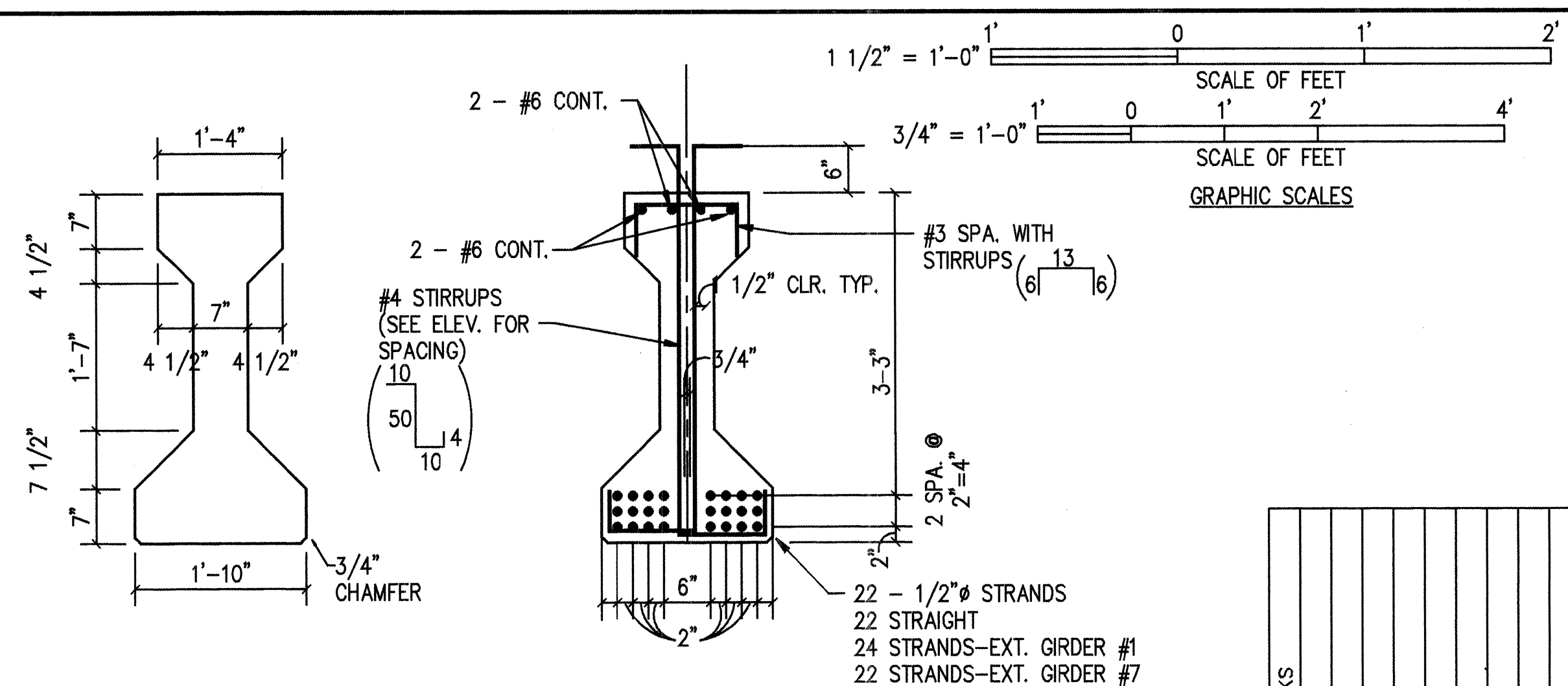


TYPICAL BEAM SHOE PLATE DETAIL

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

GENERAL NOTES:

- WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO STATE HIGHWAY DEPARTMENT SPECIFICATIONS.
- BEAMS SHALL BE LIFTED BY MEANS OF DEVICES SATISFACTORY TO THE PROJECT MANAGER, INSERTED THRU THE 3" DIA. PIPE AT THE ENDS. BEAMS ARE TO BE CAST, STORED AND HAULED IN THE UPRIGHT POSITION. ALTERNATE LIFTING DEVICES MUST BE APPROVED BY THE PROJECT MANAGER.
- BEAM CAMBER IS COMPUTED NET UPWARD DEFLECTION AT CENTER LINE OF BEAM DUE TO PRESTRESSING, WITH WEIGHT OF BEAM ACTING AT ERECTION.
- DEAD LOAD DEFLECTION IS THE COMPUTED DEFLECTION DUE TO WEIGHT OF SLAB, DIAPHRAGMS AND SUPERIMPOSED DEAD LOADS AFTER ERECTION.
- IF CONTRACTOR CHOOSES TO USE UNCOATED SEVEN WIRE STRESS RELIEVED STRANDS HAVING PROPERTIES OTHER THAN THOSE SHOWN IN THE DESIGN DATA, REVISED DETAILS SHOWING NUMBER AND ARRANGEMENT OF STRANDS SHALL BE SUBMITTED TO THE PROJECT MANAGER.
- STIRRUPS MAY BE WELDED INTO A "CAGE" AT THE CONTRACTOR'S OPTION.
- TYPE 3 CEMENT MAY BE USED AT THE CONTRACTOR'S OPTION.
- SHOE PLATE MUST BE STRAIGHTENED PRIOR TO CASTING INTO BEAM.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" OR ROUNDED TO 3/4" RADIUS. ANGLES OF INTERSECTION BETWEEN FLANGES AND WEBS SHALL BE ROUNDED TO NOT LESS THAN 3/4" RADIUS.
- PRESTRESSING TENDONS FOR PRETENSIONED BEAMS SHALL CONSIST OF HIGH TENSILE STRENGTH SEVEN WIRE STEEL STRANDS AS SPECIFIED ON THIS SHEET. DETAILS OF ALL WORK NECESSARY TO FABRICATE AND INSTALL THE INTEGRAL PARTS OF THE BEAM (INCLUDING THE HOLES FOR THE RODS, TIE RODS, ELASTOMERIC BEARING PADS AND SHOE PLATES) AS SHOWN ON PLANS SHALL BE INCLUDED IN BID PRICE FOR PRESTRESSED CONCRETE BEAM MEMBER.
- THE TOP SURFACE OF THE BEAM IS TO BE THOROUGHLY WIRE BRUSHED AND SCORED TRANSVERSELY AFTER INITIAL SET TO A MINIMUM DEPTH OF 1/4" FOR ENTIRE FLANGE WIDTH. REMOVE LAITANCE.



PRECAST BEAM SECTION

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

BEAM DESIGN DATA: INTERIOR GIRDER

- DESIGN ACCORDING TO AASHTO SPECIFICATIONS, DATED 1989
- DESIGN STRESS:

BEAMS: CONCRETE $F'_c \pm$ (MIN. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF INITIAL PRESTRESS) = 4000 PSI

F'_c = 5000 PSI

PRESTRESS REINF.: 1/2" DIA. - 270 KSI STRESS-RELIEVED 7-WIRE STRANDS

INITIAL PRESTRESS = 21.56 KIPS/STRAND

ESTIMATED LOSS @ 20%

PRESTRESS AFTER LOSSES = 17.25 KIPS/STRAND

CONVENTIONAL REINF. STEEL: LONGITUDINAL DOWELS & STIRRUPS ASTM A615-

GR60 (ALL WELDED BARS ASTM A706)

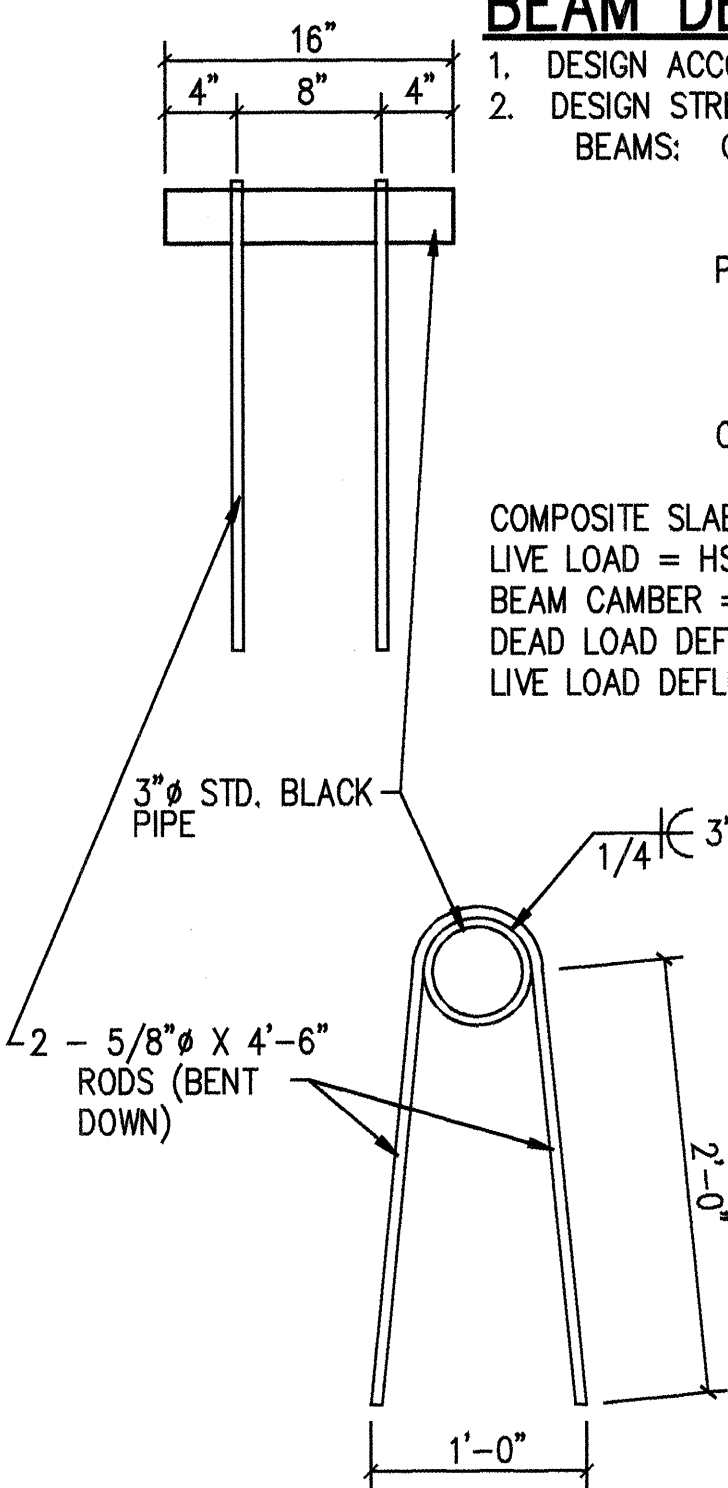
COMPOSITE SLAB: F'_c = 4000 PSI, F_y = 60,000 PSI

LIVE LOAD = HS-20-44

BEAM CAMBER = 1.495" AT ERECTION

DEAD LOAD DEFLECTION = 0.436" WITH DECK

LIVE LOAD DEFLECTION = 0.27"



3" STANDARD BLACK PIPE DETAIL

N.T.S.

BEAM DESIGN DATA: EXTERIOR GIRDERS

- DESIGN ACCORDING TO AASHTO SPECIFICATIONS
- DESIGN STRESS:

BEAMS: CONCRETE $F'_c \pm$ (MIN. COMPRESSIVE STRENGTH OF CONCRETE AT TIME OF INITIAL PRESTRESS) = 4000 PSI

F'_c = 5000 PSI

PRESTRESS REINF.: 1/2" DIA. - 270 KSI STRESS-RELIEVED 7-WIRE STRANDS

INITIAL PRESTRESS = 21.15 KIPS/STRAND - GIRDER #7

INITIAL PRESTRESS = 22.60 KIPS/STRAND - GIRDER #1

ESTIMATED LOSS @ 20%

PRESTRESS AFTER LOSSES = 16.92 & 18.08 KIPS/STRAND

CONVENTIONAL REINF. STEEL: LONGITUDINAL DOWELS & STIRRUPS ASTM A615-

GR60 (ALL WELDED BARS ASTM A706)

COMPOSITE SLAB: F'_c = 4000 PSI, F_y = 60,000 PSI

SIDEWALK LIVE LOAD = 85PSF

BEAM CAMBER AT ERECTION - GIRDER #7(6"WALK) = 1.453" - GIRDER #1(8"WALK) = 1.809"

DEAD LOAD DEFLECTION WITH DECK - GIRDER #7(6"WALK) = .472" - GIRDER #1(8"WALK) = .587"

DEAD LOAD DEFLECTION WITH SIDEWALK ONLY - GIRDER #7(6"WALK) = .155" - GIRDER #1(8"WALK) = .180"

LIVE LOAD DEFLECTION = 0.07"

RECORD DRAWING

DATE: 8/24/95
DRAFTED BY: SHAHRAM BIRAND
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

MICRO-FILM INFORMATION

RECORDED BY: K-V - CADD

KEMPER-VAUGHAN
CONSULTING ENGINEERS
3700 COORS RD. NW
ALBUQUERQUE, NEW MEXICO 87120

COMPUTER FILE: BLBR7-7

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: PRESTRESSED CONCRETE BEAM DETAILS
SEVEN BAR LOOP/BLACK ARROYO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	11/9/94				
Trans. Dev.	11/16/94				
Utility Dev.	12-21-94				
Hydrology					
DRAWING NO.	5010.92	MAP NO.	B-13	SHEET	9 OF 11

BEAM SOLE PLATE DETAIL
(@ ABUTMENT #2)

BEAM SOLE PLATE DETAIL
(@ ABUTMENT #1)

SECTION @ ABUTMENT

SHEAR BLOCK DETAIL

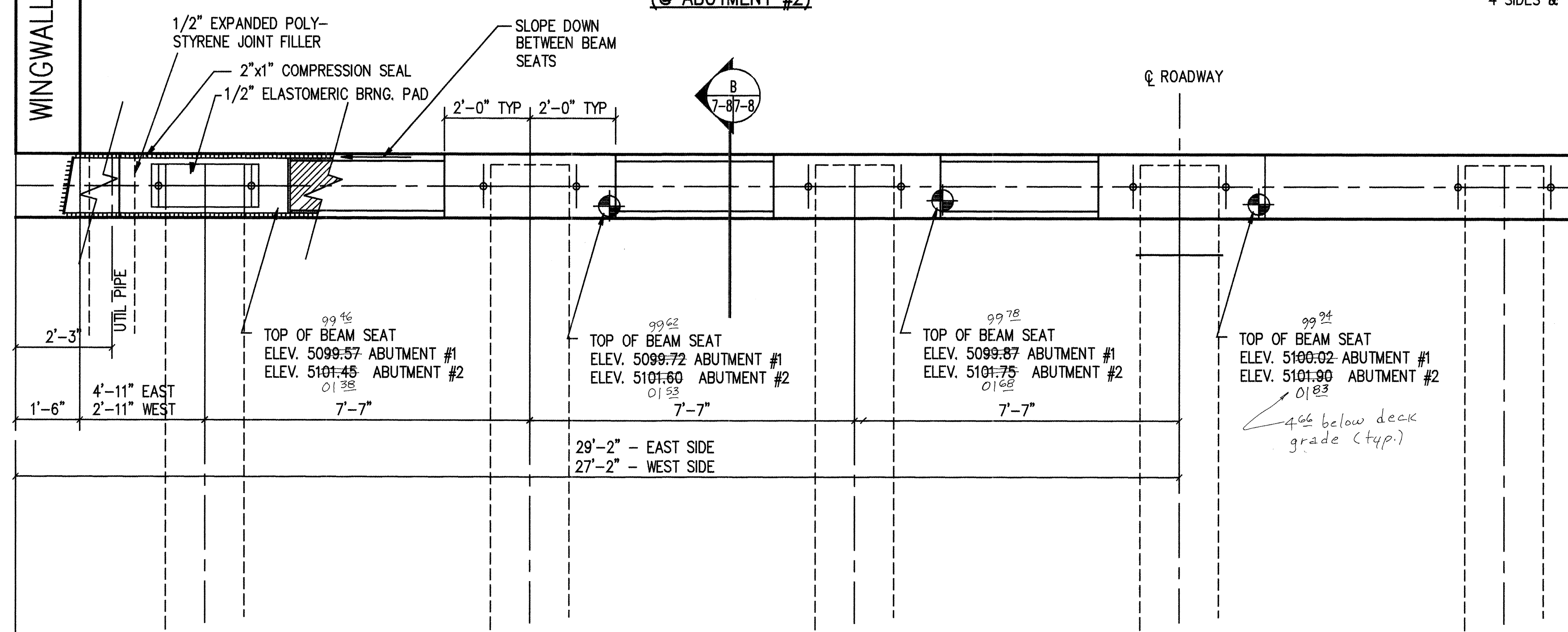
ELASTOMERIC BEARING PAD DETAIL

NOTE: BEARING PADS ARE SPECIFIED IN SECTION 03250
"EXPANSION AND CONTRACTION JOINTS IN CONCRETE"

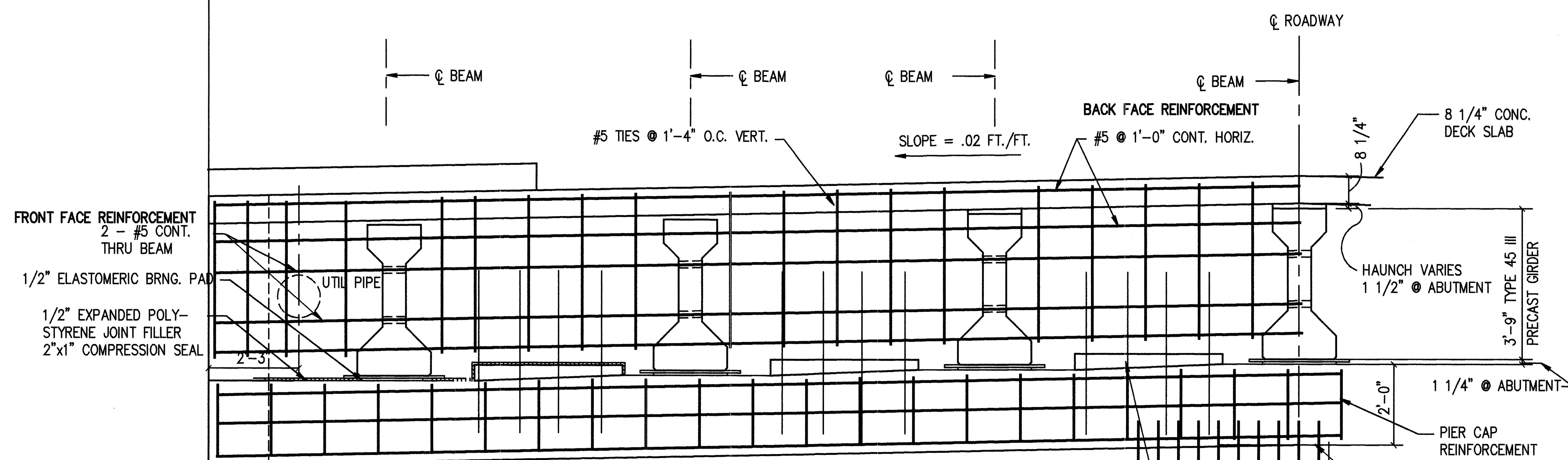
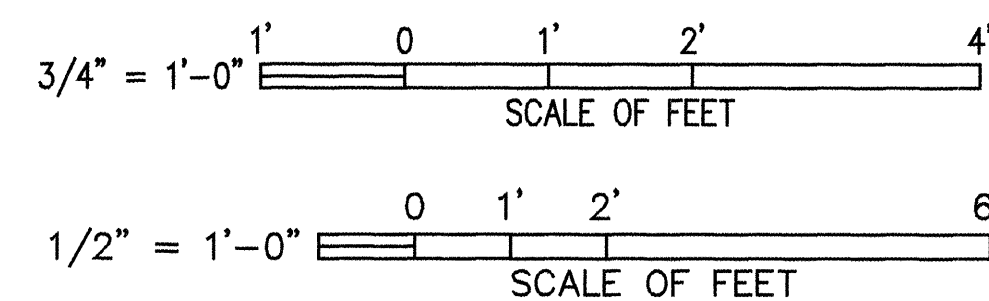
RECORD DRAWING	
DATE: 8/29/95	DRAFTED BY: SHAHAM BIAZA

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

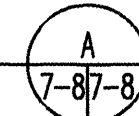
DATE:	11/9/94	Utility Dev.	11/16/94	11/16/94					
SHEET REF. FOR SECTIONS & DETAILS	Hydrology	DRAWING NO.	5010.92	MAP NO. B-13	SHEET 10	OF 11			



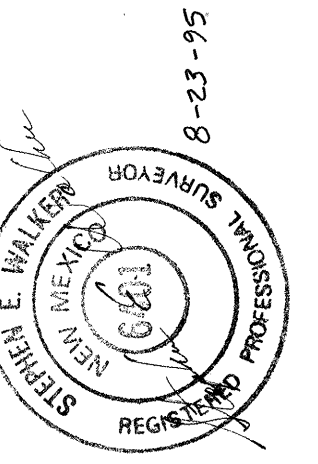
HALF ABUTMENT PLAN




HALF ABUTMENT ELEVATION



**"AS-BUILT" (HORIZONTAL
AND VERTICAL LOCATION ONLY)**



				ENGINEER'S SEAL		FIELD NOTES			SURVEY INFORMATION		BENCH MARKS	
				 <i>Richard G. Vaughan</i> 11-15-94		NO.	BY	DATE				
				DESIGNED BY		RICHARD G. VAUGHAN, PE						
				DRAWN BY								
				CHECKED BY								

AS BUILT INFORMATION	
CONTRACTOR <i>Morris Cowart</i>	DATE
STAKED BY <i>Walter Surveying</i>	DATE <i>2/15/45</i>
INSPECTED BY <i>Tierra West, Inc.</i>	DATE <i>6/23/95</i>
VERIFICATION BY <i>Walter Surveying</i>	DATE <i>8/23/45</i>
DRAWINGS BY <i>Kemper, Vaughan</i>	DATE <i>1/28/44</i>
MICRO-FILM INFORMATION	
RECORDED BY	
NO.	
K-V — CADD	
KEMPER—VAUGHAN CONSULTING ENGINEERS 3700 COORS RD. NW ALBUQUERQUE, NEW MEXICO 87120	
COMPUTER FILE: BLBR7-8	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ABUTMENT PLAN & SECTIONS
SEVEN BAR LOOP/BLACK ARROYO

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>B.G. Smith</i>	1-10-95			
Trans. Dev.	<i>N/A</i>	12-08-94			
Utility Dev.	<i>ESL</i>	11/16/94			
Hydrology	<i>JPC</i>	12-21-94			
DRAWING NO.	5010-92	MAP NO.	B-13	SHEET	10 OF 11

