

• L E G E N D •

MATERIALS

CONCRETE	
RIP-RAP	

LINES

SUBDIVISION BOUNDARY	
PROPERTY LINE (PLAN)	
PROPERTY LINE (SECTION)	
CENTERLINE	
EASEMENT LINE	
MATCH LINE	
SECTION CUT LINE	

EARTHWORK

	EXISTING	NEW
CONTOUR LINE		
SPOT ELEVATION		
PROJECT / PHASE BOUNDARY		
SWALE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES

GAS LINE		
UNDERGROUND TELEPHONE		
UNDERGROUND ELECTRICAL		
STORM DRAIN		
STORM DRAIN MANHOLE		
STORM DRAIN INLET		

SANITARY SEWER

SANITARY SEWER LINE		
SANITARY SEWER MANHOLE		
SAS SERVICE CONNECTIONS		
SAS CAP OR PLUG		
ENCASEMENT		

WATER

WATER LINE		
WATER SERVICE CONNECTIONS		
GATE VALVE		
FIRE HYDRANT		
BUTTERFLY VALVE		
REDUCER		
WATER PRESSURE ZONE BOUNDARY		

WATER FITTINGS

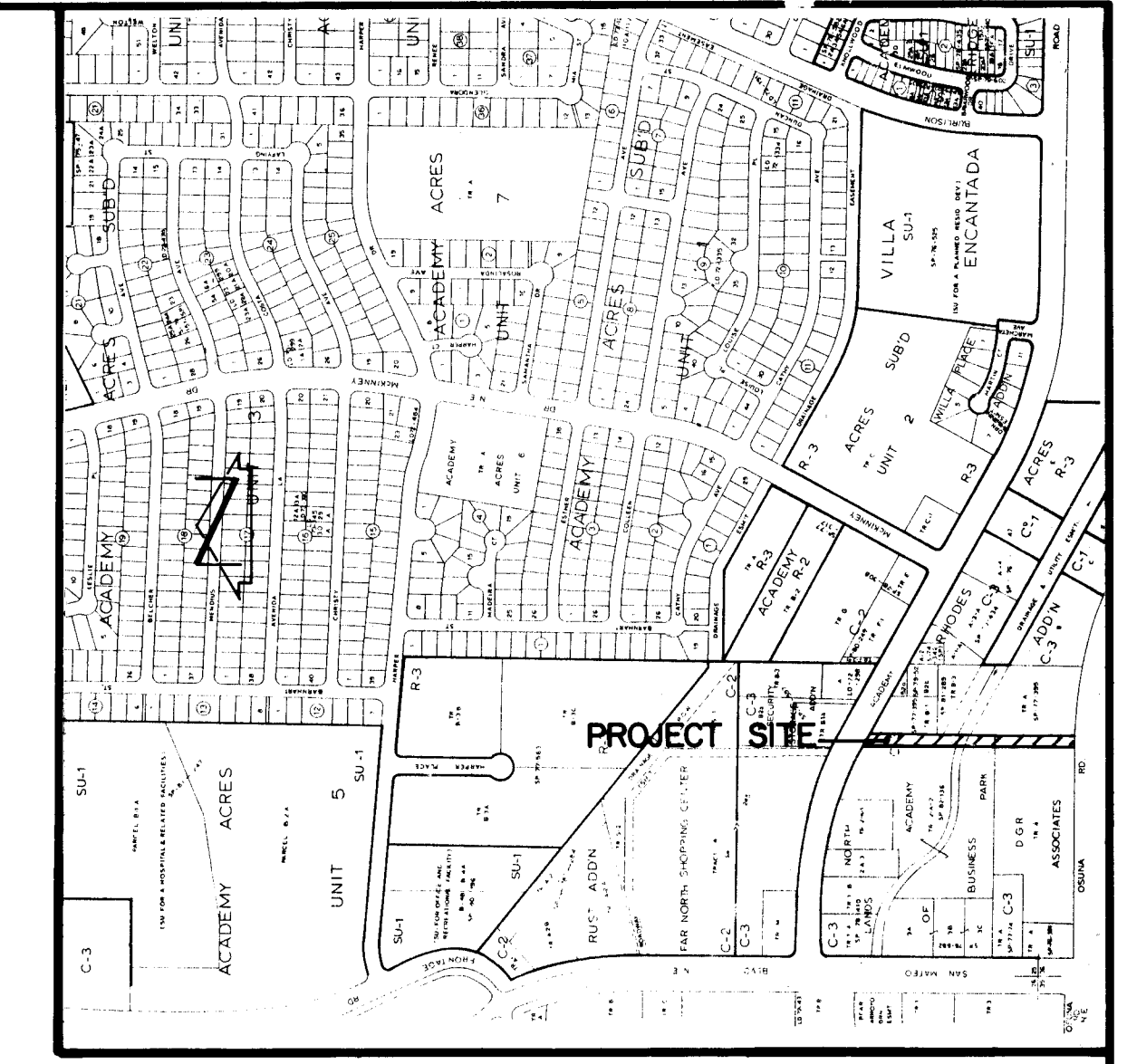
CAPS AND PLUGS		
ELBOW		
CROSS		
TEE		

MISCELLANEOUS

CHAINLINK FENCE		
FIELD FENCE		
COMMON YARD WALL		
RETAINING WALL		
POWER OR TELEPHONE POLE		

CONSTRUCTION PLANS FOR THE DEVELOPMENT OF SEAGULL STREET N.E. ALBUQUERQUE, NEW MEXICO SEPTEMBER, 1983

1	TITLE, INDEX, LEGEND & GENERAL NOTES
2	PLAT
3	DETAILS & SECTIONS
4	PAVING IMPROVEMENTS PLAN & PROFILE
5	STORM SEWER & WATERLINE PLAN & PROFILE
6	BRIDGE SECTION
7	BRIDGE SECTION
8	BRIDGE DETAILS



VICINITY MAP
SCALE: 1"=800'
E-18

- GENERAL NOTES**
1. All work detailed on these plans to be performed under contract shall, except otherwise stated or provided for hereon, be constructed in accordance with the New Mexico Standard Specifications for Public Works Construction - 1979 Edition (referred to herein as the Standard Specifications) and the City of Albuquerque Contract Documents for City-Wide Utilities and Cash-Paying No. 21, Public Works Contract No. 84-1.
 2. Two working days prior to any excavation, Contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
 3. Prior to construction, the Contractor shall excavate and verify the horizontal and vertical locations of all existing utilities and potential obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with a minimum amount of delay.
 4. All work on this project shall be performed in accordance with applicable Federal, State, and Local laws, rules and regulations concerning construction safety and health.
 5. The Contractor must submit a construction signing and barricading plan to traffic engineering to receive a barricading permit prior to construction.
 6. All utilities and utility service lines shall be installed prior to paving.
 7. Backfill compaction shall be according to specified street use.
 8. Tack coat requirements shall be determined by the City Engineer.
 9. Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
 10. If curb is depressed for a driveway, the driveway shall be constructed prior to acceptance of curb and gutter.
 11. All storm drainage facilities shall be completed prior to final acceptance.
 12. The requestor or developer shall be responsible for repair or replacement of all curb and gutter or sidewalk damaged after approval by the City Engineer of work completed by the Contractor.

APPROVAL OF AS-BUILT DRAWINGS
BY CITY ENGINEER FIELD
W. T. Mann, Jr.
DATE 2/19/85

AS-BUILT CERTIFICATION

I, Thomas T. Mann, Jr., Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project to the best of my knowledge and belief.

All vertical and horizontal dimensions should be field verified prior to use on future projects.

Thomas T. Mann, Jr.
NMPE & LS No. 3792
NEW MEXICO
LAND SURVEYOR
4/29/85

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
4			4/9/84	T.W. Mann, Jr.	2/27/85		
6, 8			4/9/84	T.W. Mann, Jr.	3/21/85		

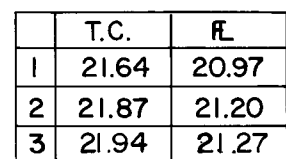
1956

APPROVED FOR CONSTRUCTION

4/9/84 C.E.

SHEET 1 OF 8

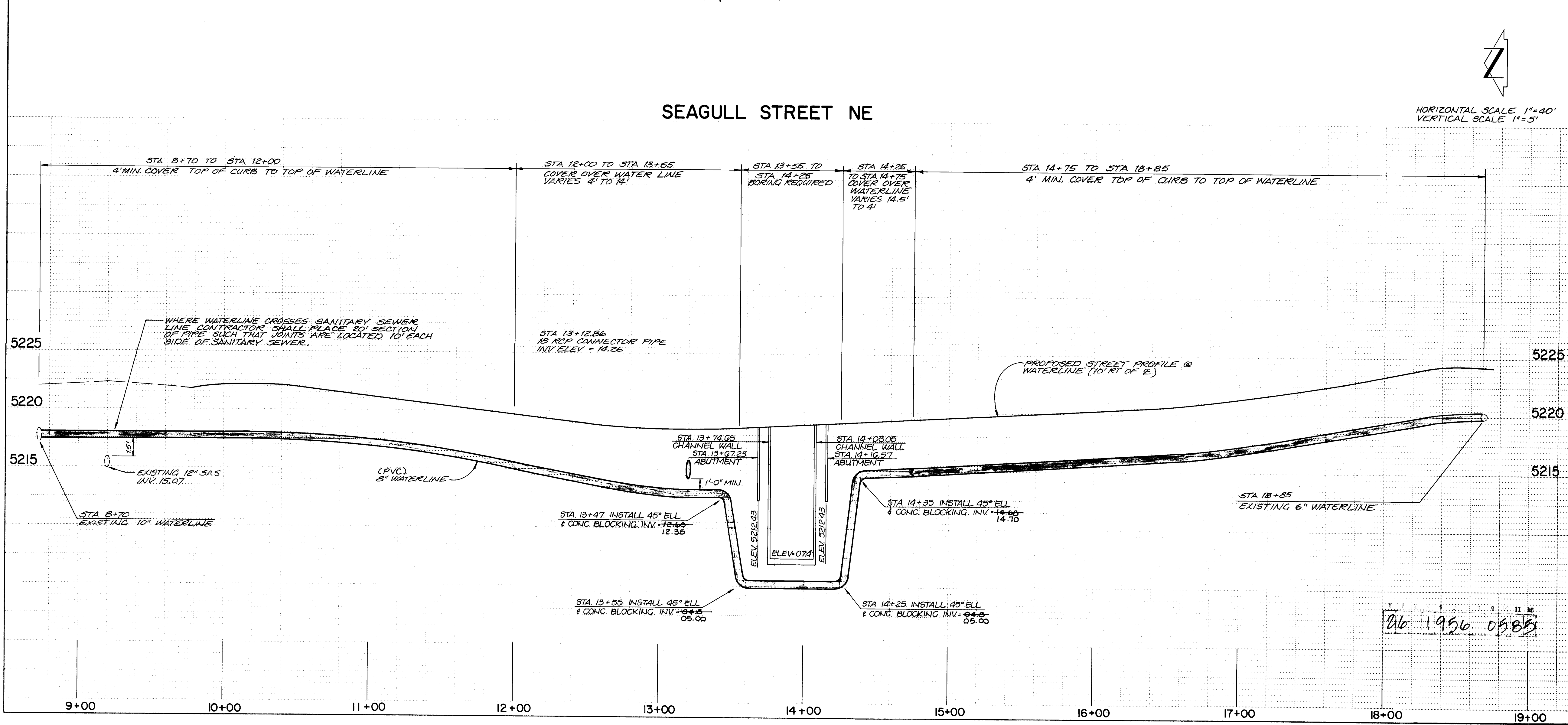
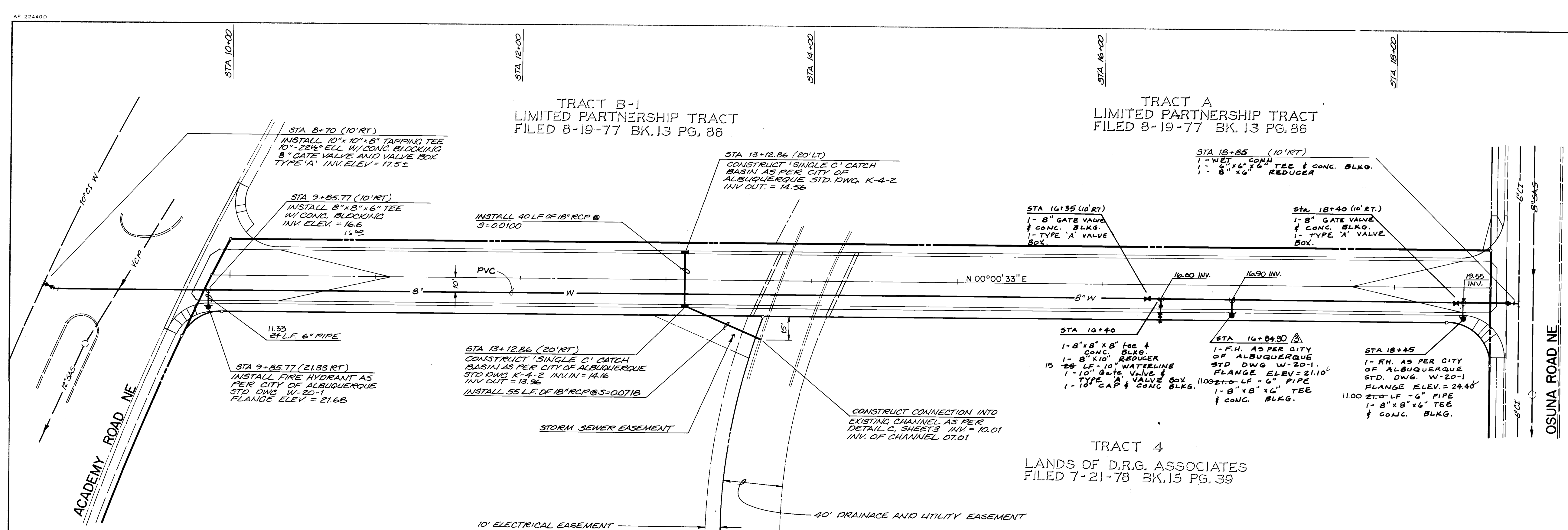
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A circular professional engineer seal for the State of New Mexico. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "NEW MEXICO" at the bottom. The inner circle contains the name "THOMAS T. MANN, JR." and the license number "3792". The seal is stamped over a document that includes a "verified" stamp and a "3792" stamp.

NO.	DATE	REMARKS	BY
△	3-30-84	Revise dia Location.	SKS

DRAWING NO.	1956	MAP NO.	E-18	SHEET	4	OF	8
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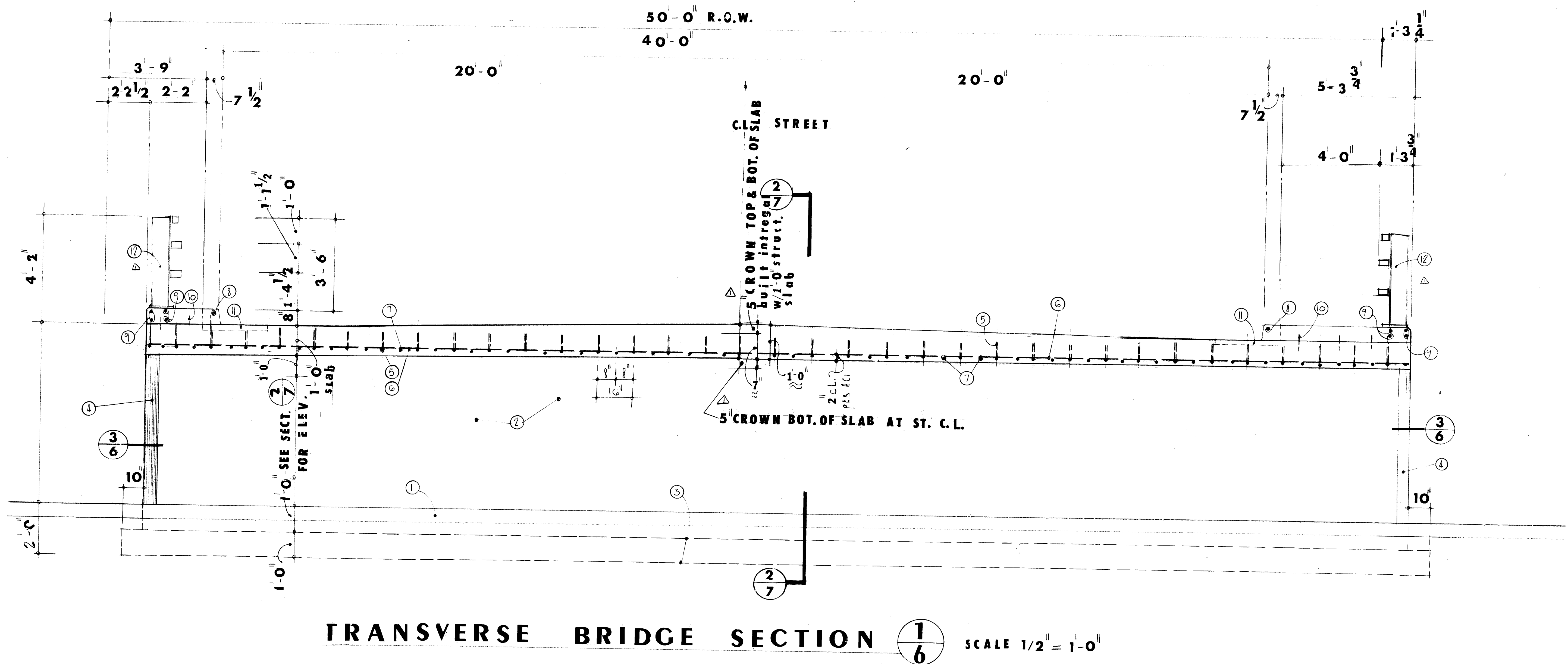
WATER DISTRIBUTION SYSTEM			
1. WATER MAIN SHALL BE PVC C900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE WATER RESOURCES DIVISION.			
2. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (TOP OF CURB TO TOP OF PIPE).			
3. WATER LINE SHALL BE LOCATED 10'0" FROM AND PARALLEL TO STREET CENTERLINE UNLESS OTHERWISE NOTED.			
4. ELECTRONIC MARKER DISKS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 131 OF THE CITY OF ALBUQUERQUE "CONTRACT DOCUMENTS FOR CITY-WIDE UTILITIES AND CASH PAVING NO. 31."			
5. ALL STATIONING IS BASED ON STREET CENTERLINE.			
6. ALL GATE VALVES SHALL BE CONSTRUCTED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-28, TYPE 'A' VALVE BOXES AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-2-3 AND TYPE 'B' VALVE BOXES AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-3-2.			
7. ALL FIRE HYDRANTS SHALL BE CONSTRUCTED AS PER CITY OF ALBUQUERQUE STANDARD DRAWING W-20-1.			

AS-BUILT CERTIFICATION			
I, Thomas T. Mann, Jr., Registered Professional Engineer in the State of New Mexico, do hereby certify that these drawings represent the "as-built" conditions of this project to the best of my knowledge and belief.			
All vertical and horizontal dimensions should be field verified prior to use on future projects.			
Thomas T. Mann, Jr. N.M.P.E. & L.S. No. 3792			

ENGINEER'S SEAL			
PROFESSIONAL ENGINEER STATE OF NEW MEXICO THOMAS T. MANN, JR. 11/18/83			

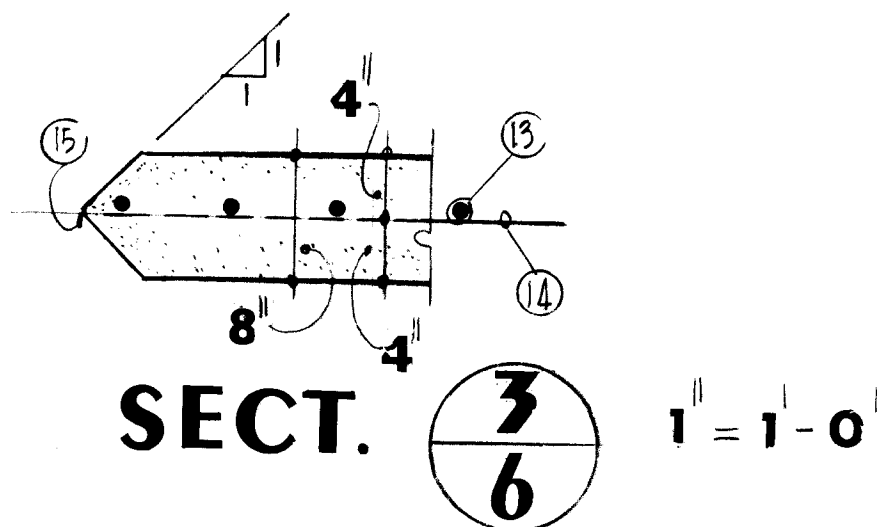
CITY OF ALBUQUERQUE MUNICIPAL DEVELOPMENT DEPARTMENT ENGINEERING DIVISION			
TITLE: SEAGULL STREET N.E. WATERLINE & STORM SEWER IMPROVEMENTS PLAN & PROFILE			
APPROVALS	ENGINEER	DATE	APPROVALS
City Engineer	1/14/84	1/14/84	1/14/84
ACE - Design	1/14/84	1/14/84	1/14/84
ACE - Hydrology	1/14/84	1/14/84	1/14/84

DRAWING NO. 1956			
MAP NO. E-18			
SHEET 5 OF 8			



NOTES:

1. EXISTING CONCRETE LINING.
2. INTERIOR 8" CONC. BEARING WALL.
3. OUTLINE BEARING WALL FOUNDATION PAD.
4. 45° CORNER BEVELS SEE SECT. 3/6
5. #8 @ 16" O.C. TRUSS BARS-ALTERNATE W/ STR. BOTTOM BARS.
6. #5 @ 12" LONG. TEMPERATURE REINF.
7. #8 @ 16" O.C. BOTTOM STR. BARS.
8. 1-#5 STR. LONGIT. REINF.
9. 4-#5 " " " " - SEE POST ANCHORAGE 3/8
10. 3-#5x8" DOWELS @ 24" O.C. SPACED LONGITUDINALLY
11. STD. CONC. CURB CITY OF ALBUQUERQUE.
12. POST AND RAILS DETAIL-SEE "5" RAIL DETAILS.
13. #5 @ 12" O.C. VERTICAL WALL REINF.
14. #5 @ 12" O.C. HORIZONTAL WALL REINF.



STRUCTURAL NOTES:

- A ALL CONCRETE WORK TO BE $f'_c = 4000$ P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS
- B ALL REINFORCING BARS TO BE A-615 GRADE 60.
- C EXCAVATE AS SHOWN, PLACE AND COMPACT BASE COARSE MATERIAL TO 95% MODIFIED PROCTOR.
- D RAKED FINISH TOP OF STRUCTURAL SLABS.
- E FOR CONSULTING ENGINEERS AND GEOLOGISTS, OR ANOTHER PROFESSIONAL SOILS ENGINEER, SHALL PROVIDE CONTINUOUS ENGINEERING AND ON SITE INSPECTION DURING THE CONSTRUCTION OF THE OVER EXCAVATION AND BACKFILLING FOR THE FOUNDATION PHASE OF THE BRIDGE WORK. THE PROFESSIONAL SOILS ENGINEER SHALL PROVIDE, UPON COMPLETION OF THE JOB, A CERTIFICATION AS TO THE COMPLIANCE OF THE CONTRACTOR TO THE DESIGN CONCEPTS, SPECIFICATIONS AND RECOMMENDATIONS OF THE REPORT OF FOX CONSULTING ENGINEERS AND GEOLOGISTS PREPARED DECEMBER 6, 1983.

△ REVISED MARCH 16-1984

AS-BUILT CERTIFICATION

I, SERGIO A. ACOSTA REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THESE DRAWINGS REPRESENT THE "AS-BUILT" CONDITIONS OF THIS PROJECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

S. A. ACOSTA Jan. 27-1985
N.M. P.E. #1183

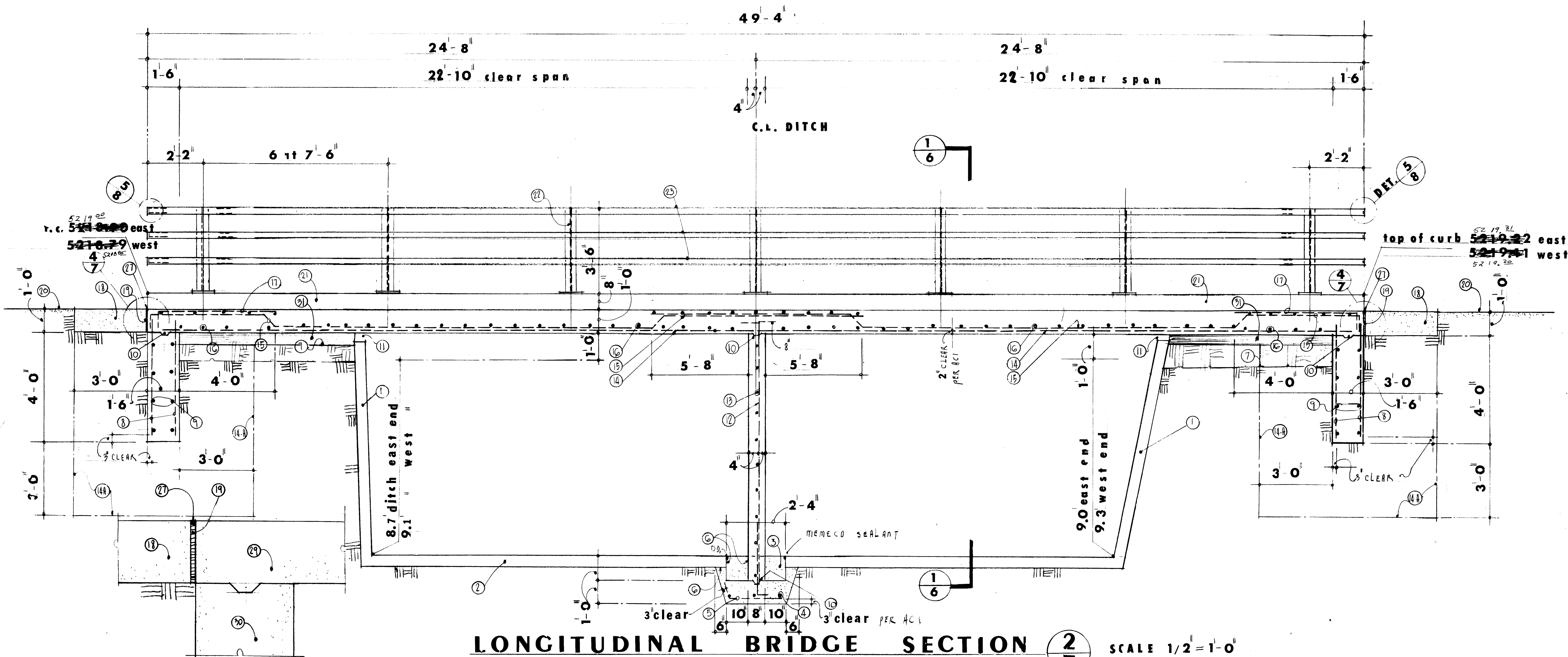


APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	1/28/84	Liquid Waste	NA WBS	1-28-84
A.C.E.-Design	<i>[Signature]</i>	2/2/84	Traffic	TE/Kenny	1/20/84
A.C.E.-Hydrology	<i>[Signature]</i>	1/20/84	Water	NA WBS	1-23-84

BRIDGE SECTION
PROJECT NO. 1956



SHEET 6 OF 6



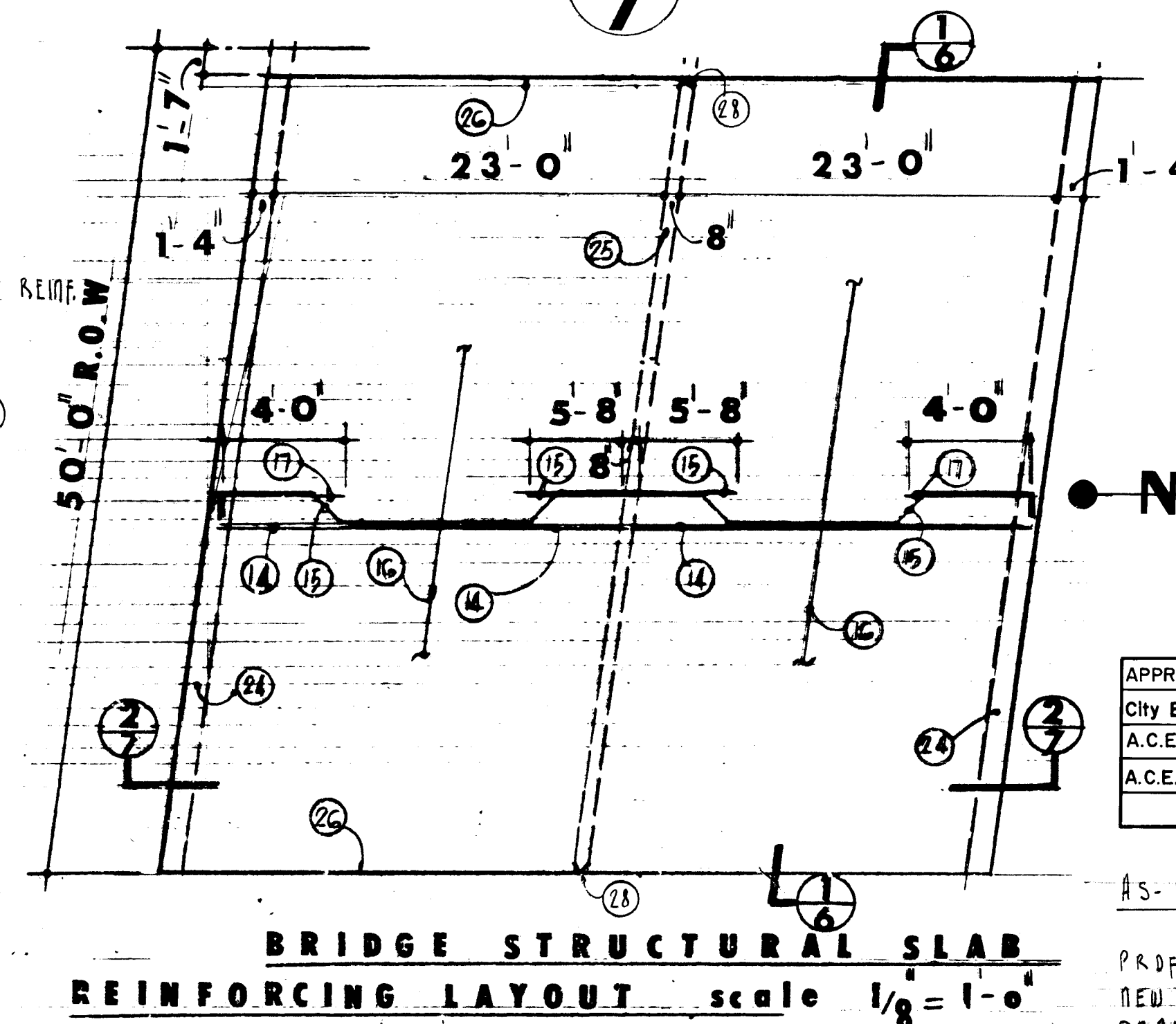
DET. 4 1 1/2" = 1'-0"

NOTES:

1. EXISTING CONC. WALL LINING.
2. " " FLOOR " "
3. CONC. FILL - SAW CUT LINING - COMPACT SOIL UNDER FOUNDATION.
4. 3-#5 LONGIT. REINF.
5. #5 @ 12" O.C. TRANSVERSE REINF.
6. CONC. BONDING AGENT AFTER SAW CUT EXISTING CONC. SLABS. WATER STOP PLUS ADHESIVE
7. CUT DOWN EXISTING GRADE BEFORE FORMING BRIDGE SLABS.
8. #5 @ 12" O.C. VERT. REINF. EACH FACE.
9. #5 @ 12" O.C. HOR. REINF. EA. FACE.
10. 2' x 4" CONT. KEY - FORMED.
11. 3" SPACE.
12. #5 @ 12" O.C. VERT. REINF. & DOWELS @ 4' OF WALL. (ALTERNATE 8" DOWELS TOP SLABS)
13. #5 @ 12" O.C. HOR. REINF.
14. #8 @ 16" O.C. BOT. REINF. - ALTERNATE W/ BENT BARS. (MAIN REINF.)
- 14-A. LIMITS OF EXCAVATION.
15. #8 @ 16" O.C. BENT BARS - ALT. W/ STR. BOT. BARS.
16. #5 @ 12" O.C. TEMP. REINF. PLACED OVER MAIN REINF.
17. #8 @ 16" O.C. TOP BARS AT END SUPPORTS.
18. CONC. PAD AT BRIDGE APPROACH.
19. 3/4" x 12" FRAM. POLYETHYLENE EXP. JOINT. (PREMOLDED MATERIAL)
20. ASPHALT PAVING.
21. CONC. CURB.
22. METAL VERT. POST.
23. METAL HOR. RAILING.
24. BRIDGE ABUTMENT.
25. INTERIOR 8" CONC. BEARING WALL.

2.6. EDGE OF BRIDGE.

- 2.7. SEALER - TWO COMPONENT URETHANE.
- 2.8. 45° BEVEL EDGE OF 8" CONC. WALL SEE DET. 3/6
- 2.9. BRIDGE SLABS.
- 3.0. GRADE BEAM.
- 3.1. 4" CARDBOARD BOXES FILL - STRUCTURAL CRUSHING CAPACITY 2000 p.s.i.



SLAB REINFORCING PLACING DIAGRAM

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	S. A. Acosta	1/23/84	Liquid Waste	N. A. W. B.	1-23-84
A.C.E.-Design	g. h. h.	2/1/84	Traffic	T. A. W. B.	1/20/84
A.C.E.-Hydrology	J. A. Z. J.	1/20/84	Water	N. A. W. B.	1-23-84

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BRIDGE SECTION
PROJECT NO. 1956



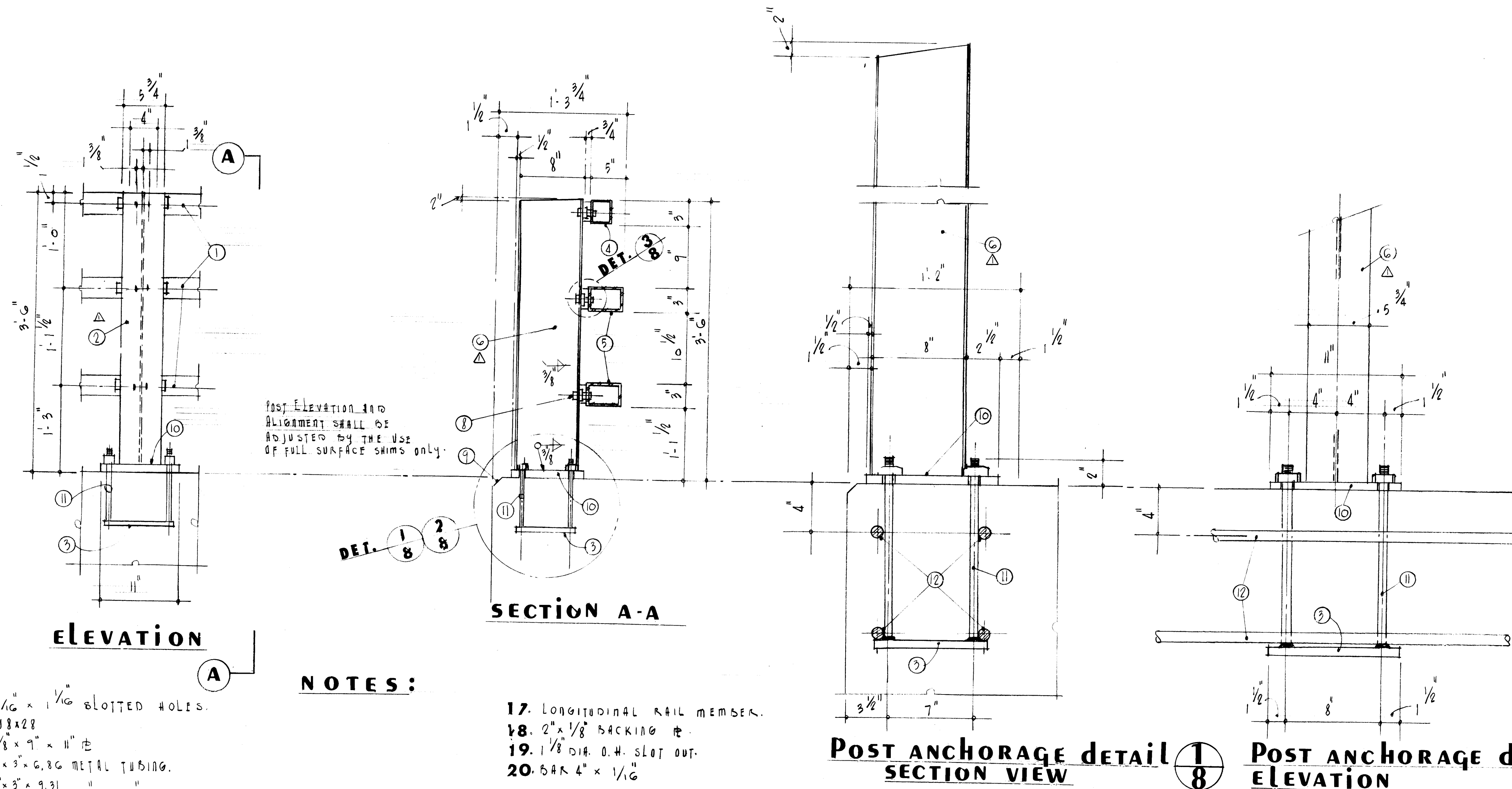
Jan. 27-85
SHEET 7 OF 8

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FEB. 9, 1984

GENERAL NOTES

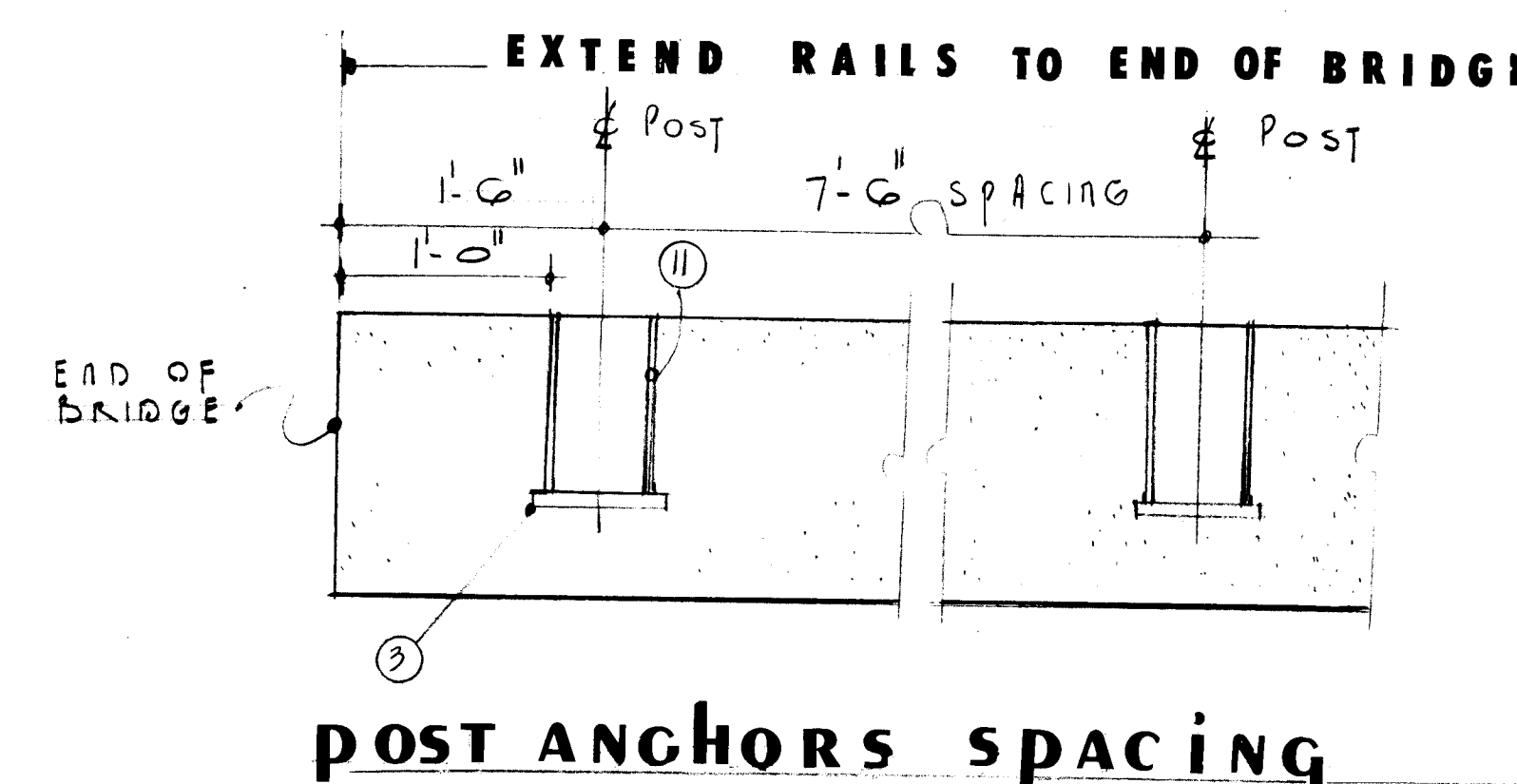
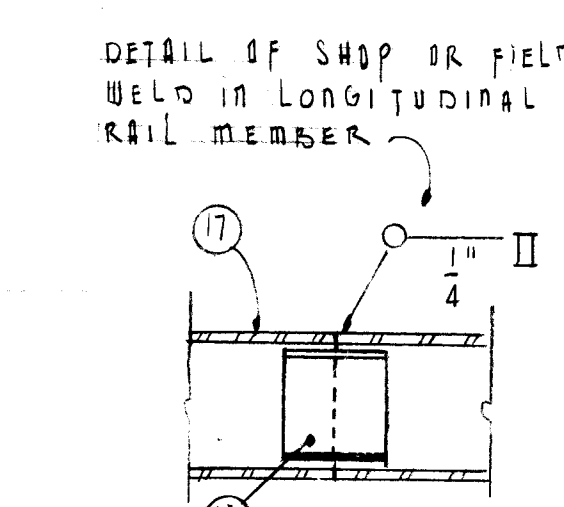
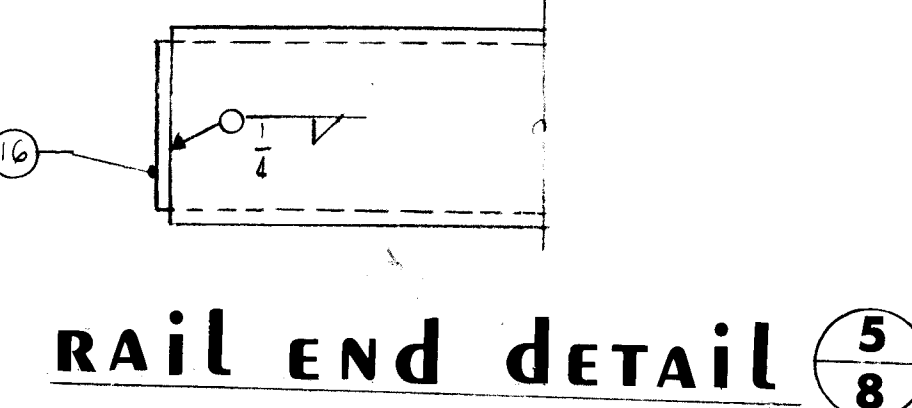
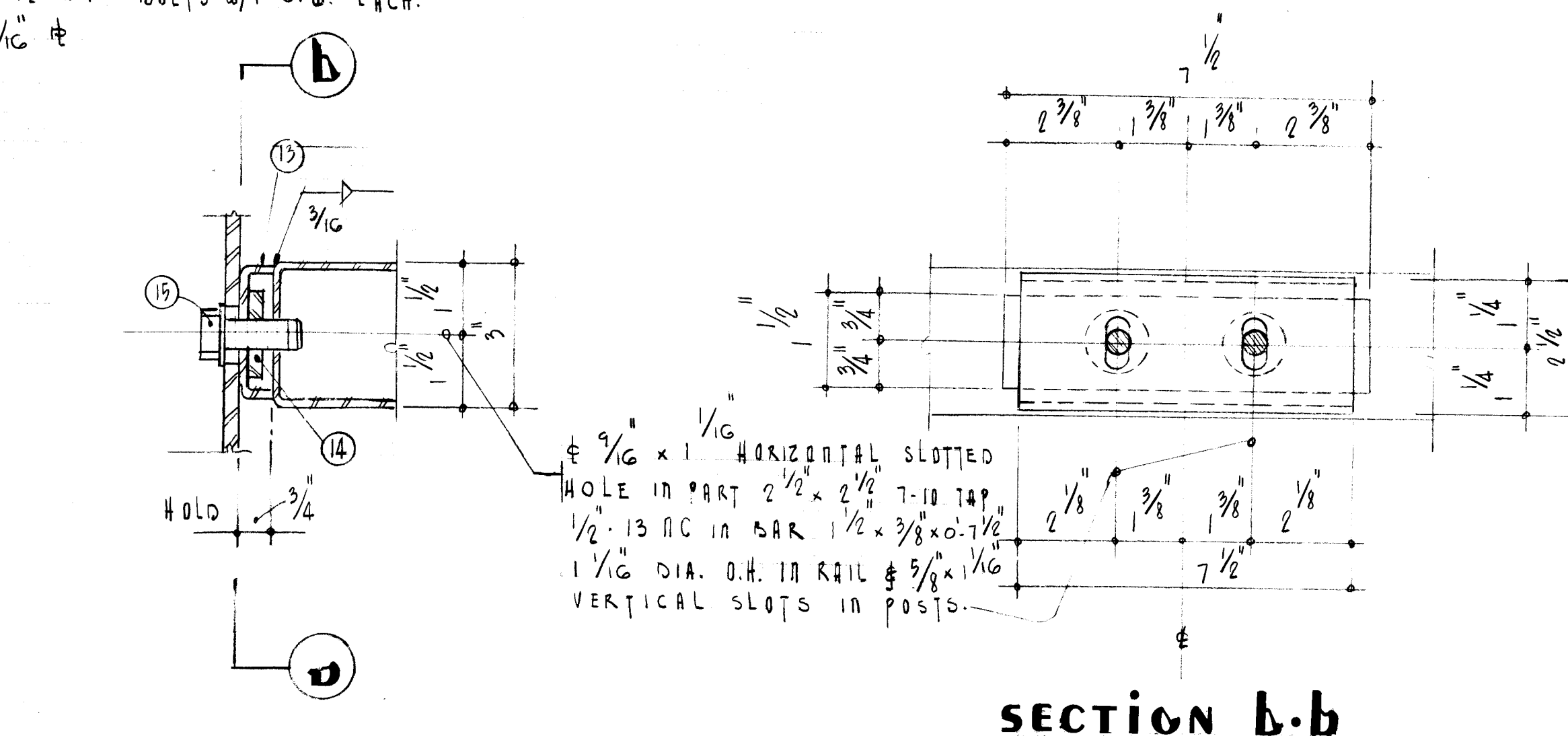
1. ALL MATERIALS & WORKMANSHIP SHALL CONFORM TO NEW MEXICO STANDARDS FOR PUBLIC WORKS CONSTRUCTION 1973 EDITION.
2. DESIGN IN ACCORDANCE WITH A.A.S.H.O. INTERIM SPECIFICATION 1984 AND 4.3.F. OR MEMO DATED FEB. 16, 1986.
3. ALL RAILS TO BE PARALLEL TO GRADE. ALL RAIL POSTS TO BE SET VERTICAL.
4. DETAILS SHOWN ARE FOR STEEL ONLY.
5. A METAL BRIDGE RAILING AND GUTTER CHANNEL OF AN ALTERNATE DESIGN IN EITHER ALUMINUM OR STEEL MAY BE SUBSTITUTED FOR ANY OF THE RAILING TYPES SHOWN ON THIS SHEET PROVIDED THE ALTERNATE DESIGN IS APPROVED BY THE ENGINEER BEFORE FABRICATION.
6. METAL BRIDGE RAILINGS WILL BE PAID FOR AT THE UNIT PRICE BID PER FOOT. BID PRICE SHALL INCLUDE ALL RAILS, POSTS, SPLICES, SHIMS, GUTTER CHANNEL, CULVERT, PLATES, BOLTS, NUTS, AND WASHERS NECESSARY FOR THE INSTALLATION OF THE RAIL AND GUTTER.
7. TYPE B RAIL IS FOR SIDEWALK INSTALLATION.
8. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.O. DESIGNATION M-184.
9. STEEL RAIL TUBES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A500 OR A501.
10. POST SPACING SHOWN ON THE PLANS IS BASED ON THE USE OF 50 CONFORMING TO THE REQUIREMENTS OF A.S.T.M. DESIGNATION A500 GRADE B. IF THE CONTRACTOR SELECTS TO USE TUBES OF ANOTHER GRADE OR DESIGNATION, THE POST SPACING SHOWN ON THE PLANS WILL BE REVISED TO COMPLY WITH MAXIMUM SPACING REGULATIONS.
11. LONGITUDINAL RAIL MEMBERS MAY BE WELDED TO OBTAIN FABRICATED LENGTHS EXTENDING OVER A MINIMUM OF FOUR POSTS. OR RAILING MAY BE FABRICATED AND SHIPPED IN SHORTER LENGTHS PROVIDED IT IS FIELD WELDED INTO CONTINUOUS LENGTHS. EXTENSION OF A MINIMUM OF FOUR POSTS. FIELD WELDING MAY BE SUBSTITUTED FOR SPICE DETAILS SHOWN AT ANY POINT IN SHOP AND FIELD WELDS. LONGITUDINAL MEMBERS MUST BE CORRECTLY ALIGNED. WELDING SHALL BE DONE WITH ANY OF THE FOLLOWING ELECTRODES: A.S.T.M. A505 CLASSIFICATION E6010, E6011, E7018, E7019, OR E7020.
12. POSTS AND RAILING SHALL BE FABRICATED, ERECTED, AND PAINTED IN ACCORDANCE WITH SECTION 12221 OF THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1973 EDITION.
13. RD = POST HEIGHT AS SHOWN IN TABLE BELOW MINUS 2" - 6".
14. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS.



NOTES:

1. $\frac{9}{16} \times \frac{1}{16}$ SLOTTED HOLES.
2. $\frac{5}{8} \times \frac{1}{2}$
3. $\frac{5}{8} \times \frac{1}{2} \times \frac{1}{2}$
4. $\frac{5}{8} \times \frac{1}{2}$ C.I.G. METAL TUBING.
5. $\frac{5}{8} \times \frac{1}{2} \times \frac{1}{2}$
6. $\frac{5}{8} \times \frac{1}{2}$
7. $\frac{5}{8} \times \frac{1}{2}$
8. $\frac{1}{2}$ BOLT $\times \frac{1}{2}$ LONG - W/ WASHER.
9. $\frac{3}{8}$ CHAMFER.
10. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ - W/ $\frac{1}{2}$ HOLES.
11. 4 - $\frac{1}{2}$ H.S. BOLTS $\times \frac{1}{2}$ LONG WITH H.S. HEX NUTS AND CUT WASHERS EACH POST.
12. 4 - #5 LONGIT. REINF.
13. RAIL $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ - 7-10 TYP.
14. BAR $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$
15. 2 - $\frac{1}{2} \times \frac{1}{2}$ BOLTS w/ C.W. EACH.
16. $\frac{3}{8}$
17. LONGITUDINAL RAIL MEMBER.
18. $2 \times \frac{1}{2}$ BACKING PL.
19. $\frac{1}{2}$ DIA. O.H. SLOT OUT.
20. BAR $\frac{1}{2} \times \frac{1}{2}$

TYPICAL TYPE "B" RAIL DETAILS NO SCALE



APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	1/23/84	Liquid Waste	<i>[Signature]</i>	1/23/84
A.C.E.-Design	<i>[Signature]</i>	1/23/84	Traffic	<i>[Signature]</i>	1/23/84
A.C.E.-Hydrology	<i>[Signature]</i>	1/23/84	Water	<i>[Signature]</i>	1/23/84

post shims type "B" rail

MAXIMUM POST SPACING TABLE		
Maximum Spacing	TYPE OF STEEL A.S.T.M. DESIGN	
	5" x 3"	3" x 3"
8' - 6"	A501	A500 or A501
9' - 2"	A500 Grade A	A500 or A501
10' - 10"	A500 Grade B	A500 or A501

Post Shims are to be used between Post Base Plate and concrete for vertical adjustment when necessary.

26 1956 0865

AS-BUILT CERTIFICATION

I, SERGIO A. ACOSTA, REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THESE DRAWINGS REPRESENT THE "AS-BUILT" CONDITIONS OF MY CLIENT'S PROJECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

S. A. ACOSTA
P.E.

2221

BRIDGE DETAILS
PROJECT NO. 1956

SHEET 8 OF 8