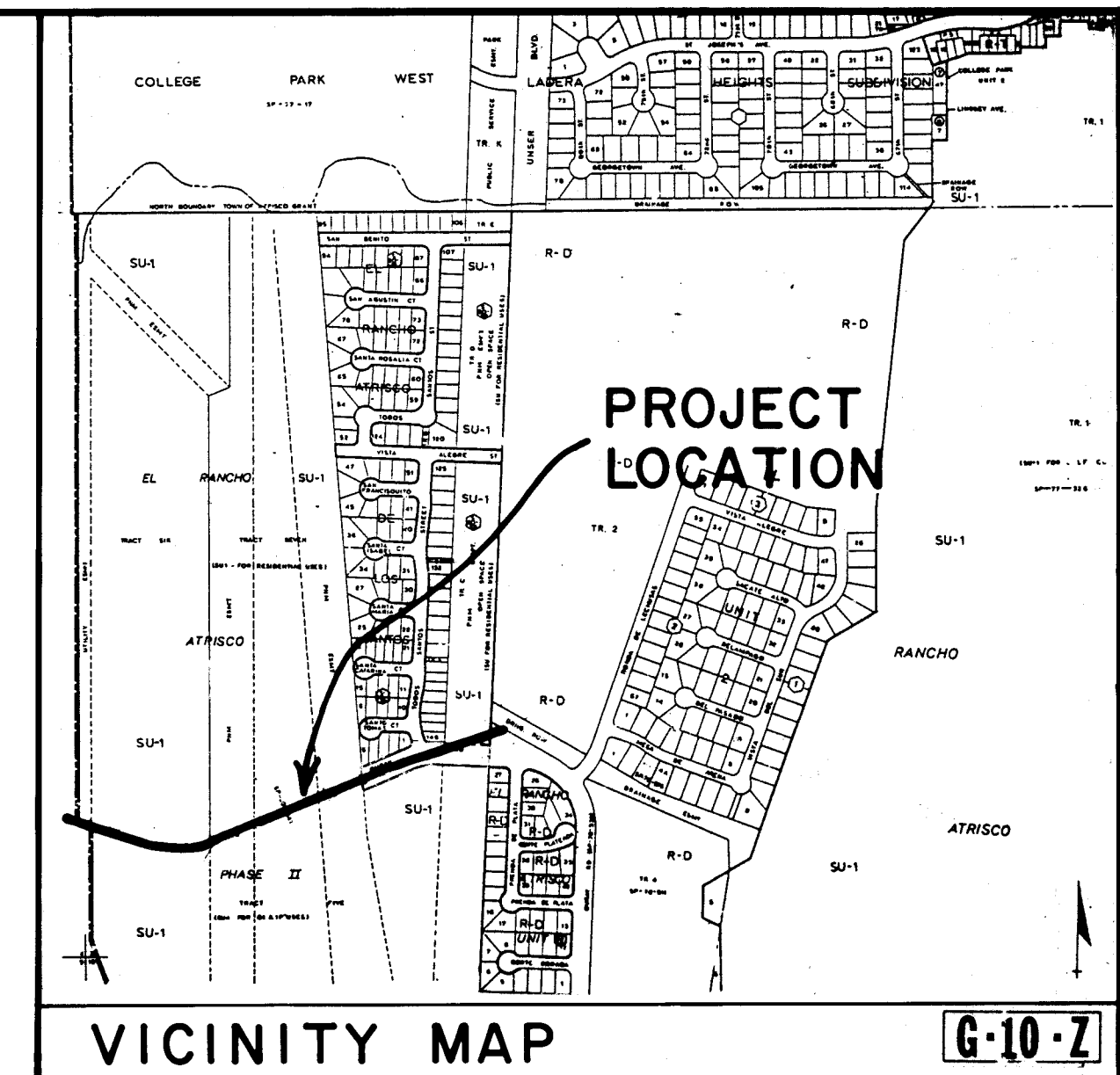


CITY OF ALBUQUERQUE, NEW MEXICO
CONSTRUCTION PLANS FOR
SPECIAL ASSESSMENT
DISTRICT NO. 215

OURAY ROAD STORM DRAIN
FROM UNSER BOULEVARD TO RONDA DE LECHUSAS
FOR
CITY OF ALBUQUERQUE - PUBLIC WORKS DEPT.
JANUARY 1987



GENERAL NOTES

1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with the City of Albuquerque Interim Standard Specifications Public Works Construction, 1985.
2. Two (2) 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 obstructions. Should a conflict exist, the Contractor shall notify the Engineer or Surveyor so that the conflict can be resolved with minimum amount of delay.
4. All storm drainage facilities shall be completed prior to final acceptance.
5. Backfill compaction shall be according to Arterial Street use.
6. All existing utilities shown here were taken as accurately as possible from record drawings and surface indications. It shall be the Contractor's responsibility to protect, maintain in service, and verify exact locations of all affected utilities during construction of this project.
7. Curb and gutter, asphalt or utilities shown as existing and not to be removed under this contract which are damaged or displaced by the Contractor or his subcontractors, shall be replaced by the Contractor at his expense.
8. The Contractor will be responsible to replace at his expense any and all property corners destroyed in the process of construction. All property corners must be set by a Registered Land Surveyor. Records of any such surveys shall be given to the Engineer.
9. The Contractor will be required to confine his work within the construction limits and/or right-of-way to preserve existing vegetation and private property.
10. 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.
11. Existing materials to be removed and paid for on a unit basis shall be measured and the quantities approved by the Engineer before removal.
12. A disposal site for all excess excavation material, asphaltic paving, concrete paving, etc., shall be obtained by the Contractor in compliance with applicable regulations and approval of the Engineer. All cost incurred in obtaining a disposal site and haul thereto shall be considered incidental.
13. Fifty ton roller operation shall not be used on this project where underground utilities are present. The required compaction of these locations shall be effected by other types of approved compaction methods.
14. All disturbed areas left exposed after the completion of construction shall be seeded per Section 915 of the specifications.
15. Contractor shall make provisions to pass storm water flows during construction of major drainage structures.
16. Manhole steps shall be installed at every manhole, spaced at 16" O.C. Manhole steps shall be aluminum steps, ALCOA No. 12653A or approved equal.
17. Contractor may at his option substitute Class IV RCP for Class III RCP.

These record drawings have been prepared/revised based upon information furnished by Greiner Inc. during construction survey, Greiner Inc. during field inspections, and the Contractor. While this information is believed to be reliable, Greiner Inc. cannot assure it's accuracy. Those relying on these record drawings are advised to obtain verification of it's accuracy before applying it for any purpose.

D. L. Morehead 6-20-87
Greiner Inc. Date
D. L. Morehead, P.E.

INDEX

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OUTLET PLAN VIEW	4
DETAILS	5

PREPARED BY: *Rick L. Beltramo* 1/8/87
RICK L. BELTRAMO DATE

PREPARED UNDER THE SUPERVISION OF: *Carl A. Tebbens* 1/8/87
CARL A. TEBBENS DATE

RECORD DRAWING

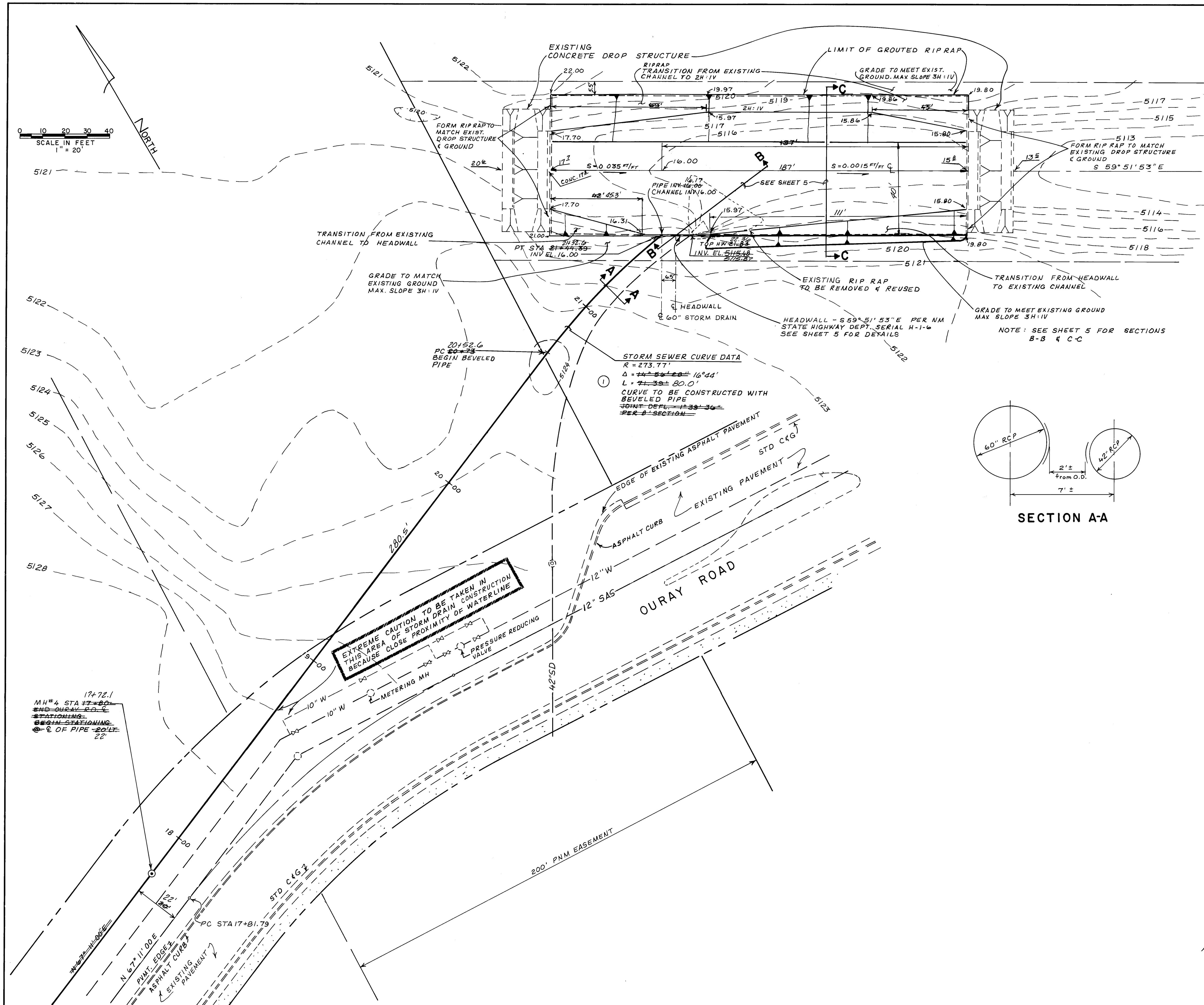
AUG 19 1988

1 2 3 4 5 6 7 8 9 10 11 12
26 30930190

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
[Signature]
DATE 1/20/87

REV	SHEETS	CITY ENGR	DATE	USER	DEPT	DATE	USER	DEPT	DATE
APPROVAL OF REVISIONS									

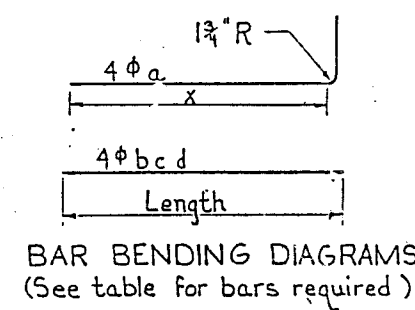
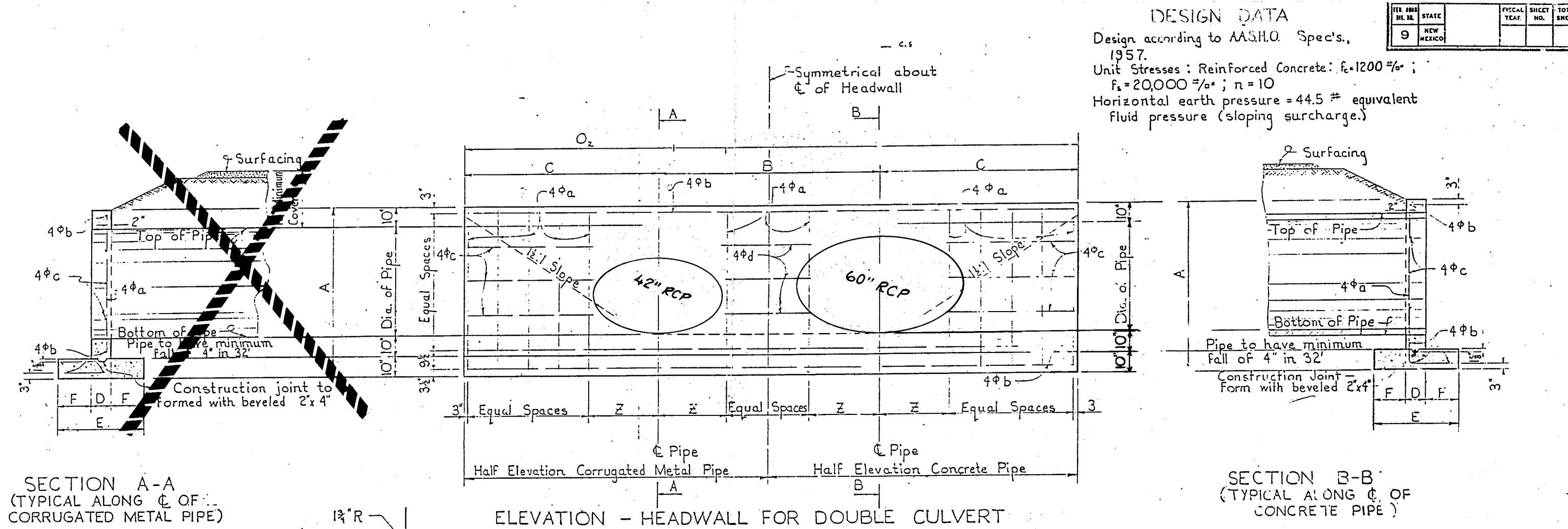
	Greiner Engineering 2601 Wyoming Blvd. N.E. Albuquerque, New Mexico 87112 (505) 292-1936	APPROVED FOR CONSTRUCTION <i>[Signature]</i> 1/20/87
PROJECT NO. 0690585	CITY PROJECT 3093	SHEET 1 OF 5



NOTE:

STATIONING OF PIPE ALONG E OF ROADWAY
STATIONING FROM BOP TO STATION 17480

STATIONING OF PIPE ALONG E OF PIPE
FROM STATION 17480 TO EOR



GENERAL NOTES

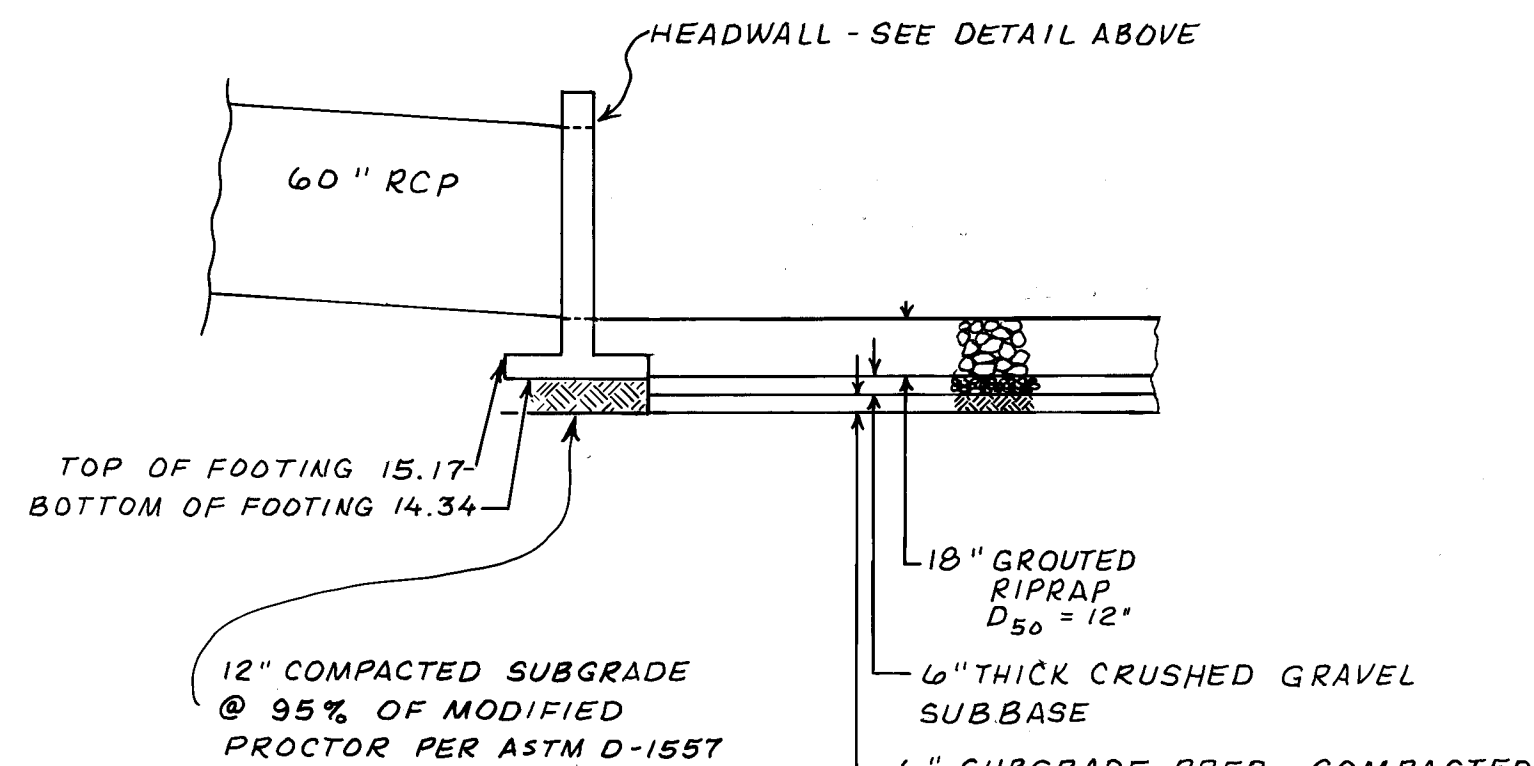
- Design based on a minimum concrete compressive strength of 3000 pounds per square inch at 28 days. Chamfer all exposed edges $\frac{1}{4}$ " unless noted otherwise.
- Reinforcing steel to be deformed bars, intermediate grade, conforming to ASTM Specifications A-15 and A-305. Dimensions refer to $\frac{1}{2}$ " of bar.

CONCRETE HEADWALLS - 60" DIA. RCP

DIMENSIONS							REQUIRED FOR ONE HEADWALL W/ ONE PIPE									
A	B	C	D	E	F	O ₂	4 φ c BARS				4 φ p		4 φ c BARS			
No.	Length	X	Spacing	Z	No.	Length	No.	Length	Spacing	No.	Length	Spacing	No.	Length	Spacing	
7'6"	13'0"	8'9"	10"	3'9"	1'5½"	30'6"	14	9'0"	6'11"	0'11"	3'1½"	4	0 _n -3"	6	5'6"	1'6½"
ADD FOR EACH ADDITIONAL PIPE																
4 φ c BARS				4 φ d BARS												
No.	No.			Length			Spacing									
5	3			6'9"			1'6½"									

HEADWALL TO BE CONSTRUCTED AS SHOWN FOR 60" RCP PER NM STATE HIGHWAY DEPT. STANDARD USING DIMENSIONS SHOWN

HEADWALL DETAIL



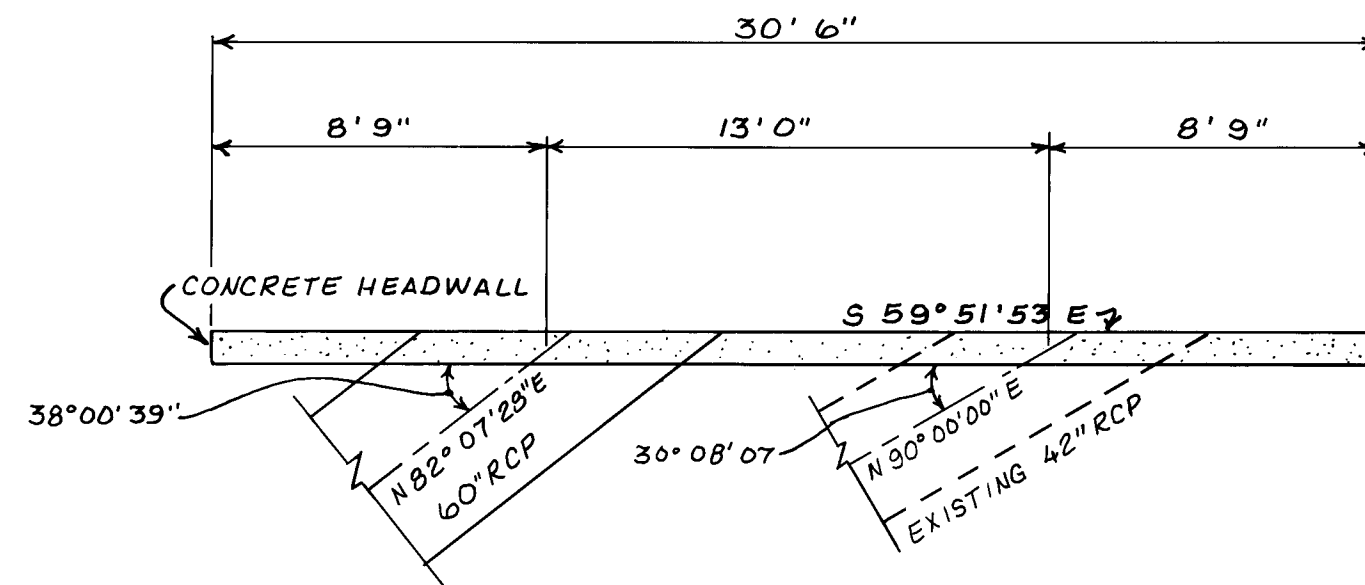
SECTION B-B

NTS

CRUSHED GRAVEL SUBBASE GRADATION

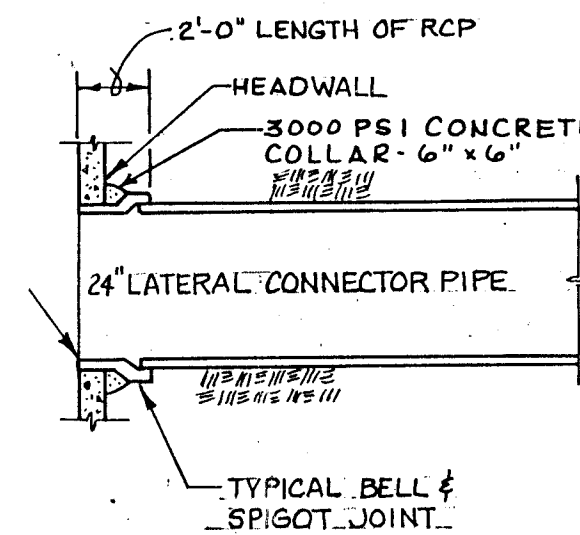
SIEVE SIZE	% PASSED
1"	100
3/4"	80 - 100
NO. 4	30 - 60
NO. 10	20 - 45
NO. 200	3 - 10

TWO FRACTURED FACES 50% OR GREATER (PLUS 4 MATERIAL)



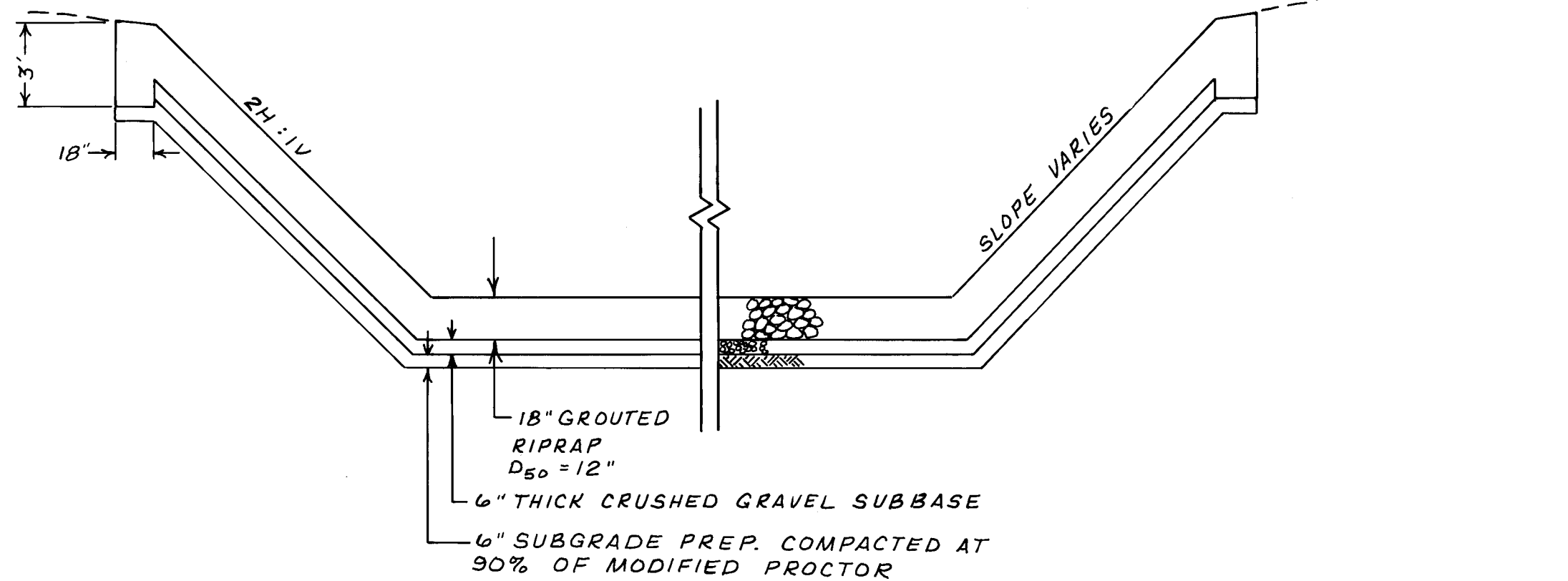
HEADWALL PLAN VIEW

NTS



LATERAL CONNECTION TO HEADWALL

NTS



SECTION C-C

NTS

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	C.C.M. 039-7777	HORIZONTAL	A.C.S. STANDARD BRASS TABLET STAMPED	DATE	1/87		PROJECT NO. 1087
WORK	GREINER	VERTICAL	1 FOOT ABOVE GROUND	DATE	1/87		
STARTED BY	GREINER	DATE	1/87	DATE	1/87		
ACCEPTANCE BY	GREINER	DATE	1/87	DATE	1/87		
MICRO-FILM INFORMATION		RECORDED BY		DATE			
RECORDED BY		DATE		DATE			

1 2 3 4 5 6 7 8 9 10 11 12
2 6 3 0 9 3 0 5 9 0

RECORD
DRAWING

1986

Greiner Engineering

2601 Wyoming NE
Albuquerque, New Mexico 87112
(505) 292-1936

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: S.A.D. 215 OURAY ROAD STORM DRAIN
DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer		1/9/87	Liquid Waste	WJW	1/9/87
AS-E Design		1-9-87	Traffic	NADWH	1/8/87
A-E-Hydrology		1/9/87	Water	WJW	1/9/87

DRAWING NO. 3093 MAP NO. G-10 SHEET 5 OF 5