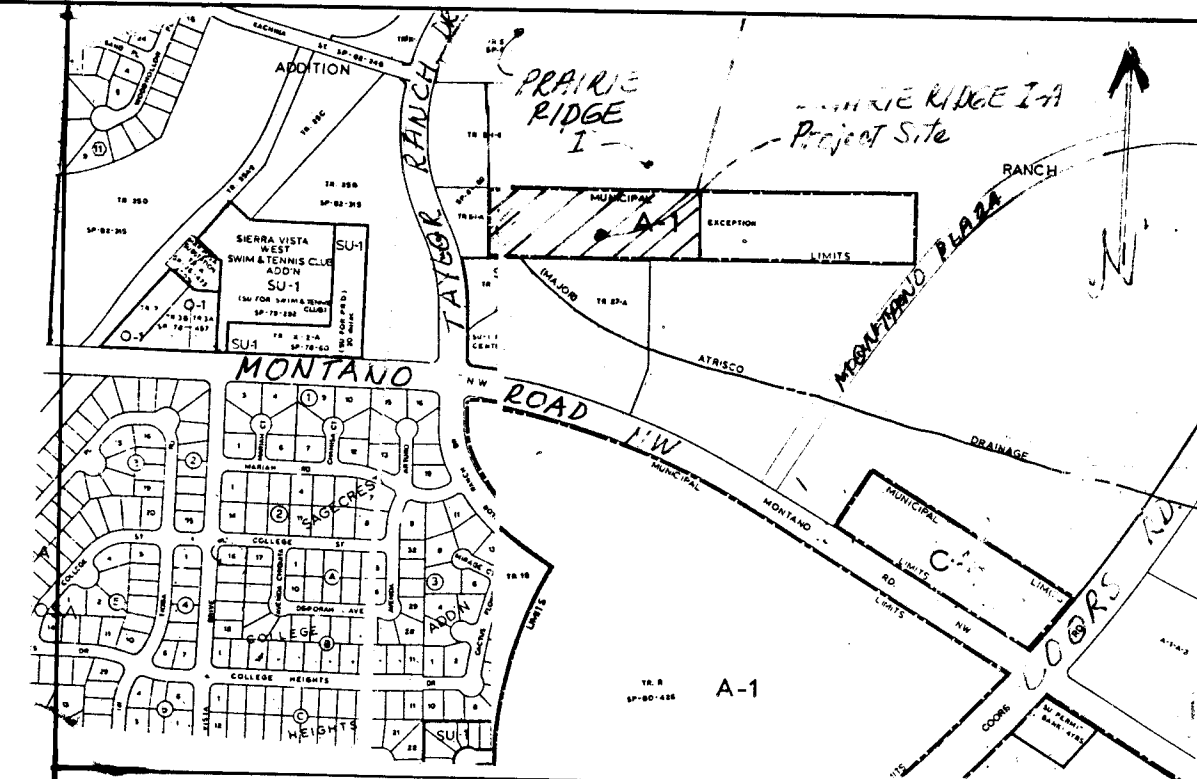


PRAIRIE RIDGE I-A

CONSTRUCTION PLANS FOR WATERLINE,
SANITARY SEWER, STORM DRAINAGE, AND
PAVING

INDEX	SHEET
TITLE	1
PLAT	2
GRADING PLAN	3
PAVING LAY-OUT	4
WATER & SANITARY SEWER LAY-OUT	4
DRAINAGE & SEWER OUTFALL	5
OFFSITE WATERLINE	5
PERIWINKLE COURT W,SAS,P	6
COPPICE DRIVE W,SAS,P	6
DETAILS	7



Vicinity Map
Scale 1" = 800' ±

11, 12

GENERAL NOTES:

ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, UNLESS OTHERWISE NOTED, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBQ. STD. INTERIM SPECS. PUBLIC WORKS CONSTRUCTION 1985.

TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL STRUCTURES AND SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM DELAY.

ALL UTILITIES AND UTILITY SERVICE LINES SHALL
BE INSTALLED PRIOR TO PAVING.

BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.

SIDEWALK AND WHEELCHAIR RAMPS WITHIN CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

IF CURB IS DEPRESSED FOR A RAMP OR A DRIVEPAD,
THE RAMP OR PAD SHALL BE CONSTRUCTED PRIOR TO
ACCEPTANCE OF THE CURB AND GUTTER.

ALL STORM DRAIN FACILITIES SHALL BE COMPLETED
PRIOR TO FINAL ACCEPTANCE.

TRAFFIC HANDLING NOTES:

1. CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO AND RECEIVE A BARRICADING PERMIT FROM TRAFFIC ENGINEER-OPERATIONS PRIOR TO CONSTRUCTION.

2. ALL CONSTRUCTION SIGNING AND BARRICADING SHALL COMPLY WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 1978 EDITION AND SUBSEQUENT EDITIONS, OR REVISIONS.

3. CONTRACTOR'S OPERATION, BARRICADING AND SIGNING SHALL NOT AFFECT THRU LANES OF TAYLOR RANCH DRIVE BETWEEN 7:00 A.M. AND 9:00 A.M. AND 4:00 P.M. AND 6:00 P.M.

APPROVAL OF AS BUILT DRAWINGS
ASST. CITY ENGINEER - FIELD
Brian L. Spivey
DATE: 6/25/07

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

REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE

RHOMBUS, P.A.
Civil Engineers & Construction Consultants
N.E. McKee Road • Eugene, Ore.
N.E. Commercial Court • Astoria, Ore.

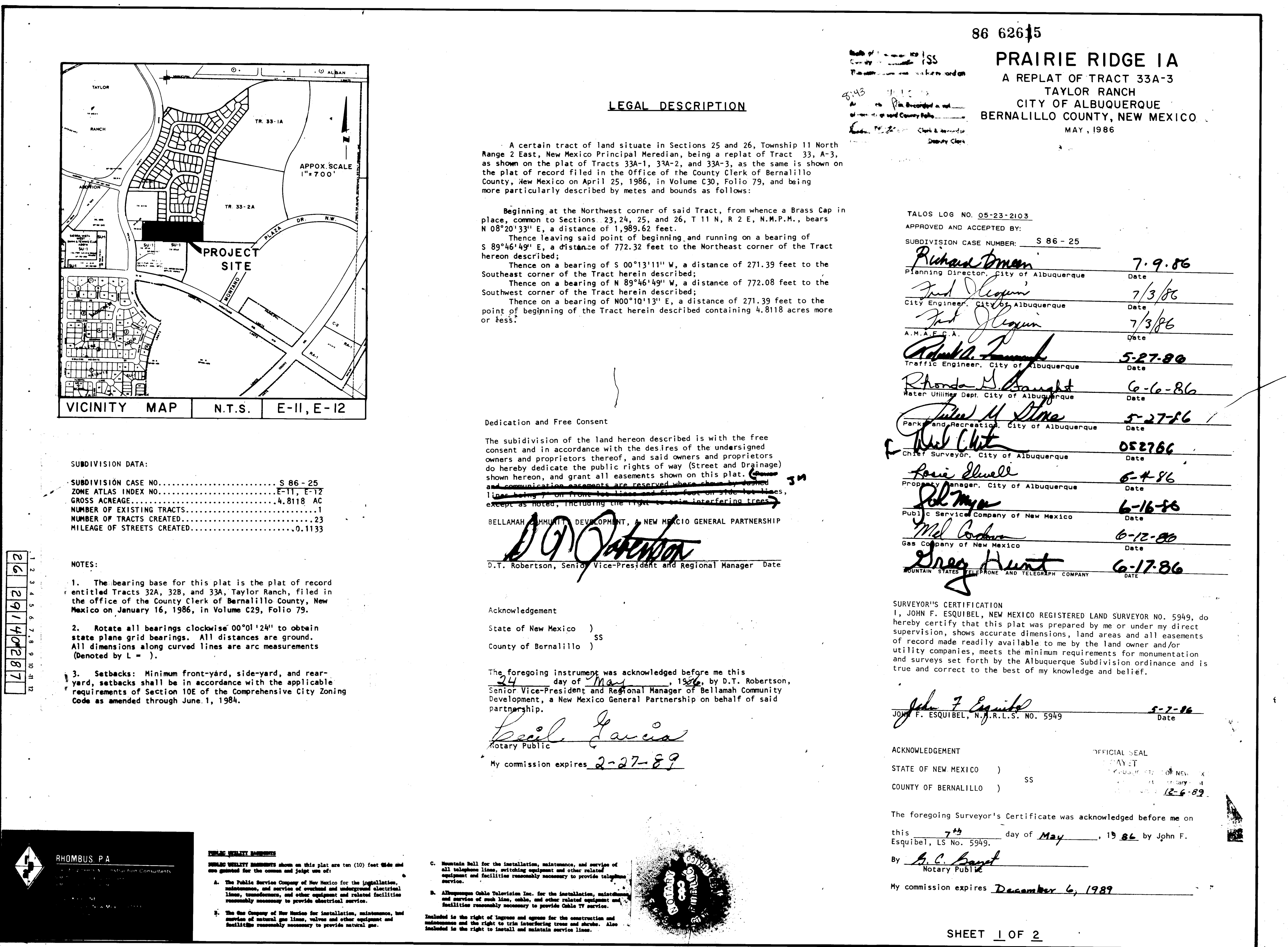
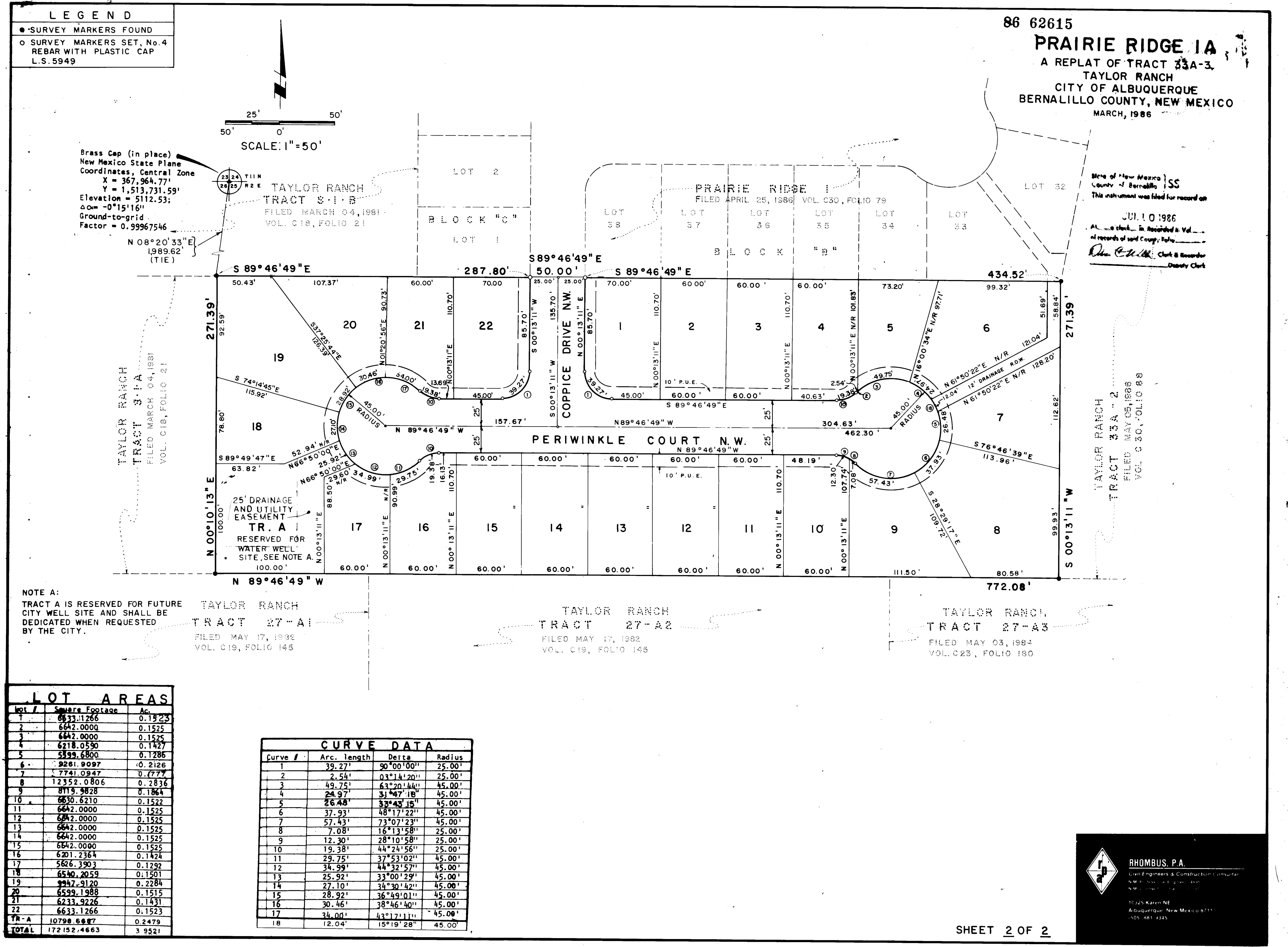
10425 Karon NE
Albuquerque, New Mexico 87113
(505) 881-9345

APPROVED FOR
CONSTRUCTION
[Signature]
7/11/86 C.E.

2 9 1 4

SHEET 1 OF 7





DRAINAGE PLAN

The following items concerning PRAIRIE RIDGE I-A DRAINAGE PLAN are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations Results

The proposed improvements, as shown by the Vicinity Map, are located on the east side of Taylor Ranch Drive, N.W. just north of Montano Road, N.W. The site is more particularly described as Taylor Ranch Tract 33C. At present, the site is undeveloped.

Research has revealed that the site does not lie within a designated Flood Hazard Zone. Part of the runoff generated by the development of the site will be discharged West onto Taylor Ranch Drive. Part will drain East to a drainage easement towards a pond on Montano Plaza Drive.

The Grading Plan shows: 1) existing and proposed grades indicated by spot elevations and contours at 1'-0" intervals, and 2) the limit and character of the proposed improvements. As shown by this plan, the proposed improvements include the construction of detached single family houses (60 x 110' typical dimensions), along with paving. Soil type is B.

The calculations analyze both the existing and developed conditions for the 100-year, 6 hour rainfall event. The SCS method has been used for this analysis in accordance with the City of Albuquerque Development Process Manual, Volume II.

Hydraulic Calculations

	DRAINAGE CHANNEL	DRAINAGE SWALE	STREET	CURB CUT (E) W
Q (Cubic Feet/Second)	10.10	10.10	3.13	(4) 10
S (Fe/Ft)	.005	.005	.005	.005
b (Ft)	10'	20'	11.72'	(4) 13.5'
n (No Unit)	.017	.017	.017	.017
d (Ft)	.35'	.41'	.30'	(27) 2.65'
V (Fe ³)	2.93	2.94	1.73	(2.03) 2.23

Backyard Pond

$$\text{Volume} = 87 \text{ ft}^3$$

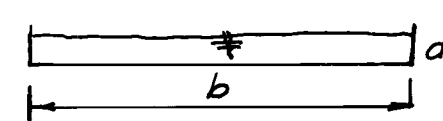
$$\text{Say, 3" deep (.25')}$$

$$\text{Area} = 87 \div .25 = 348 \text{ ft}^2$$

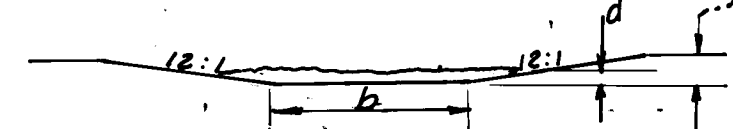
$$\text{Use } 20' \times 20'; \text{ Area} = 400 \text{ ft}^2$$

Configurations:

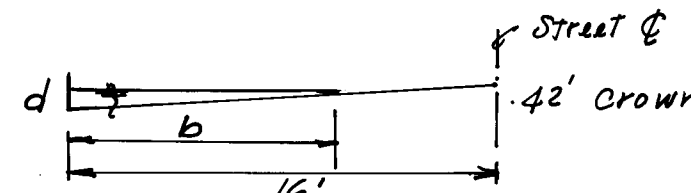
Drainage Channel



Curb Cut



Street:



VICINITY MAP E-11,12

SCALE 1"=800'

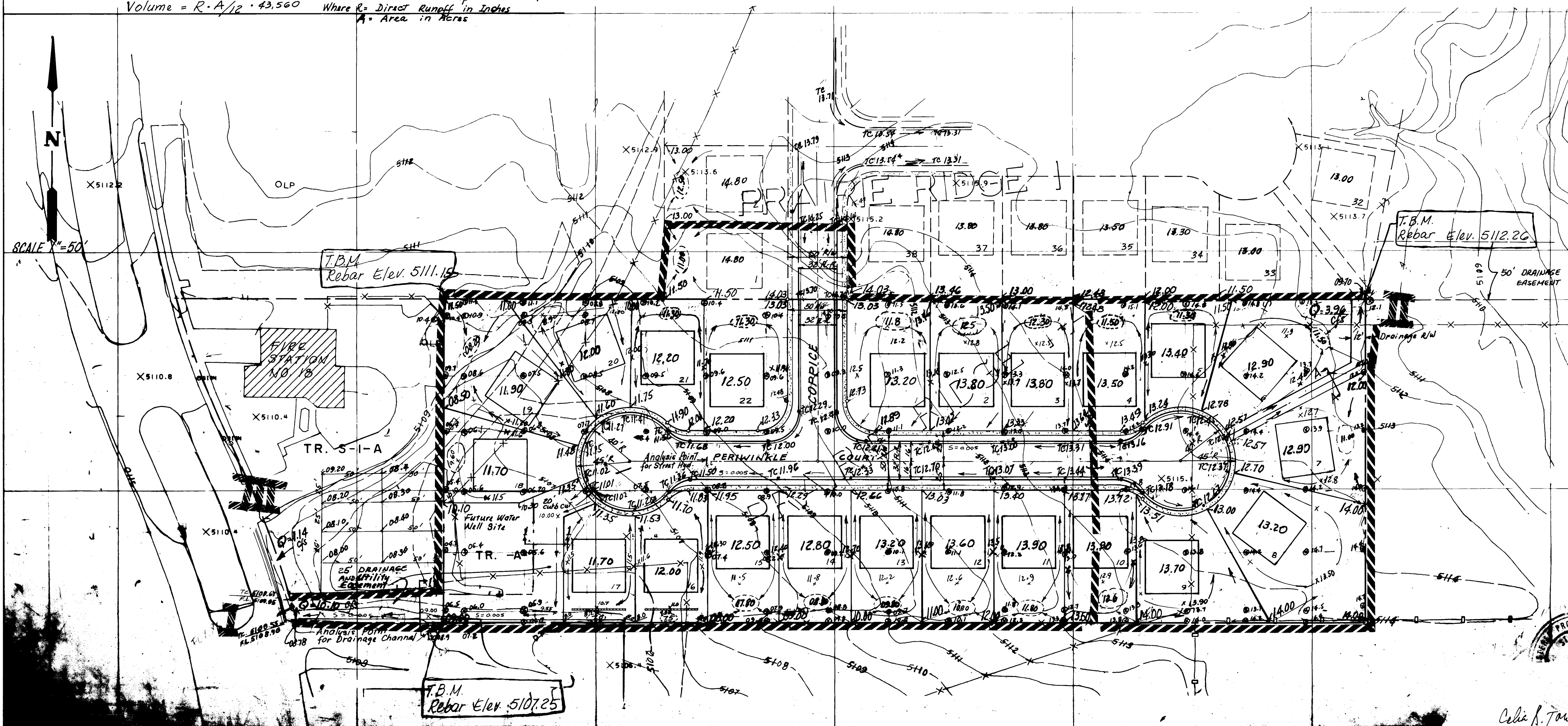
Hydrologic Calculations

	BASIN I		BASIN II		BASIN III		BACKYARD POND	
	Undeveloped	Developed	Undeveloped	Developed	Undeveloped	Developed	Undeveloped	Developed
Area (Acres)	3.77	3.77	1.48	1.48	.36	.36	.08	.08
% Impervious	0	52	0	44	0	0	0	25
Pervious Over CN (PLATE 22.2 C-2)	61	61	61	61	82	82	61	61
Composite CN (PLATE 22.2 C-3)	-	79	-	77	-	-	-	69
Direct Runoff (PLATE 22.2 C-4)	.15"	.59"	.15"	.59"	.7"	.7"	.15"	.3
Tp (Minutes)	10	10	10	10	10	10	10	10
Qpeak (Cubic Ft/Sec)	2.57	10.10	1.01	3.96	1.14	1.14	.05	.11
Volume (Cubic Feet)	2,063	8,074	806	3,169	915	915	44	87

Rainfall used for the six-hour event is 2.2 inches (DPM PLATE 22.2 D-1)

Formulae used: Peak Discharge, $Q_{peak} = R \cdot q_p$ Where $R = \text{Direct Runoff in Inches}$
 $q_p = \frac{4.54(A)}{T_p}$ Where $A = \text{Area in Acres}$
 $T_p = T_c = 10 \text{ minutes}$

Volume = $R \cdot A / 12 \cdot 43,560$ Where $R = \text{Direct Runoff in Inches}$
 $A = \text{Area in Acres}$



NOTES:

1. Unless otherwise noted minimum setback lines are 20' in front and 5' on side of lot.

2. Rear swales shall have minimum dimensions of 20' x 20' and shall be a minimum of 15' away from pad edge.

3. Finished floor elevation of house shall be 1.0' above pad elevation (min).

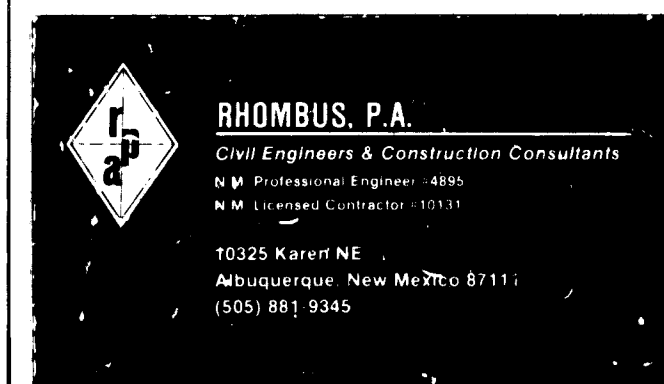
4. Curb flowline is 0.33' below top of curb elevation.

5. Unless otherwise noted, streets have 50' R/W and 32' FF widths.

LEGEND

- 20.50 45' x 45' Dirt Pad Elevation
- 14.3 Exist Spot Elevation
- 19.50 Proposed Spot Elevation
- TC 17.85 Proposed Top of Curb Elev.
- 18.54 Proposed Elevation at R Property Line
- EX TC 13.67 Existing Top of Curb Elev.
- 512 Existing Contour Line
- 2.0 Proposed Contour Line
- 19.00 Proposed Rear Lot Swale
- Proposed Conc. Sidewalk
- Proposed Roll-type C&G
- Subdivision Boundary

1 2 3 4 5 6 7 8 9 10 11 12
26 29 14 03 87



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

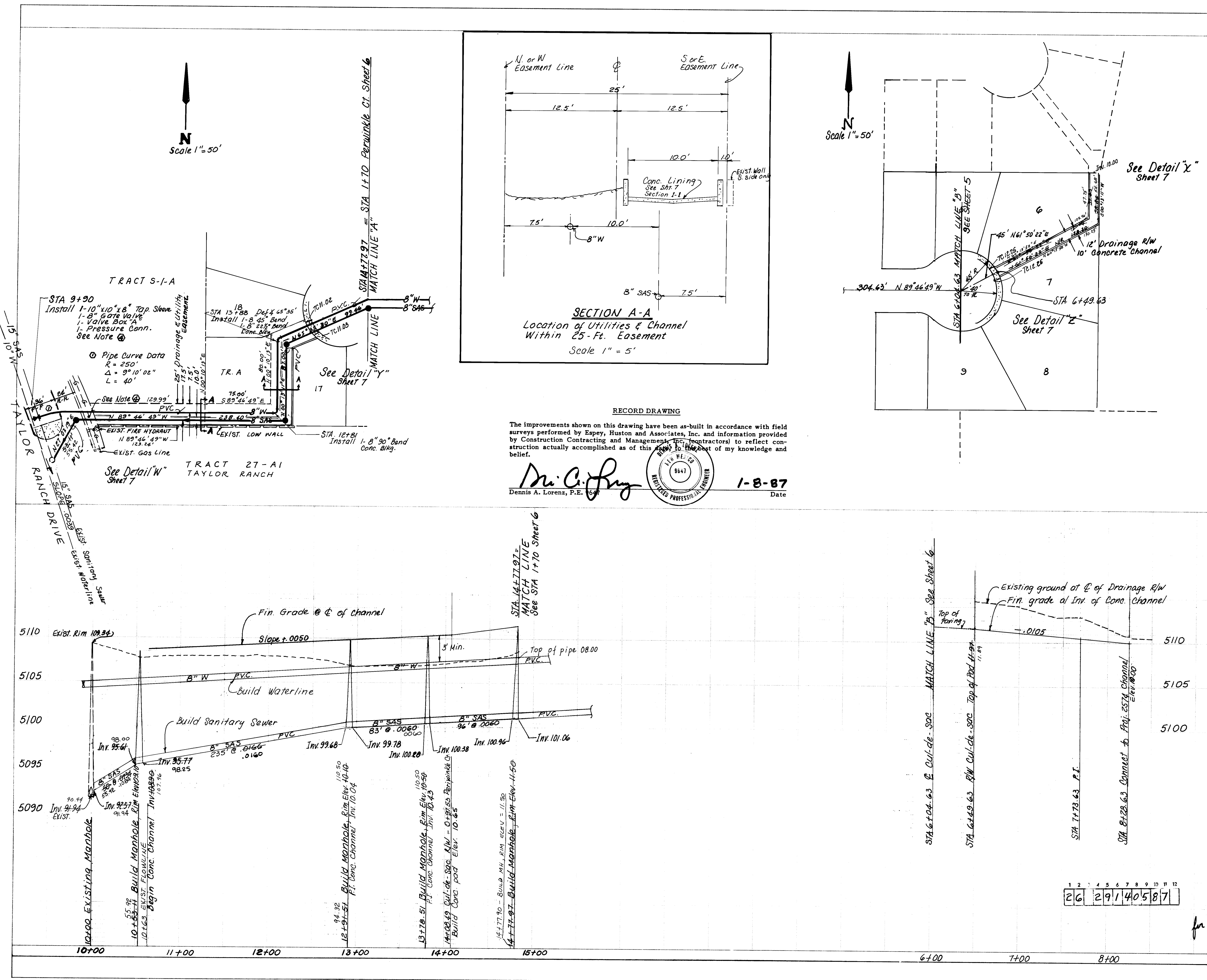
TITLE: PRAIRIE RIDGE I-A SUBDIVISION
Grading Plan

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	W. J. ...	7/11/86	Liquid Waste	W. J. ...	6/20/86
A C E - Design	A. J. ...	6/20/86	Traffic	A. J. ...	6/20/86
A C E - Hydrology	...	...	Water	...	6/20/86

DRAWING NO. 2914

SHEET 3 OF 7

[illegible]



NOTES:

SANITARY SEWER

- SEWER PIPE SHALL BE VCP OR PVC.
- MANHOLES SHALL BE 4' DIA. TYPE E
- SLOPES ARE BASED ON TRUE DISTANCES.
- PROVIDE EMD'S AT SERVICE LATERALS.
- USE WATERTIGHT MANHOLE LID & COVER NEENAH LR-1916-D OR APPROVED EQUIV. ON STATION WATERLINE 12+91.51 AND 13+78.51.

WATERLINE CONNECTION:

- REMOVE AND REPLACE 12 LF ASPHALT CURBING.
- REMOVE AND REPLACE 25 SY SOD.
- REMOVE AND REPLACE ARTERIAL STD. ASPHALT CONCRETE PAVING. PER CITY STD. DWG. P-25 (16SY).

SANITARY SEWER CONSTRUCTION:

- REMOVE AND REPLACE ARTERIAL STANDARD ASPHALT CONCRETE PAVEMENT PER CITY STD. DWG. P-25 (80SY).

STORM DRAINAGE CONSTRUCTION

- REMOVE EXISTING STD. CURB AND GUTTER (10 LF) AND ONE FOOT ARTERIAL PAVEMENT.
- MATCHING EXISTING FLOWLINE AND DRIVEPAD, BUILD SIDEWALK CULVERTS. REPLACE ARTERIAL PAVEMENT.
- BUILD 6-FT SIDEWALK UP TO THE NORTH EASEMENT LINE.
- SEE DETAIL "W" ON SHEET 7.

AS BUILT INFORMATION

CONTRACTOR: CCM
DESIGNED BY: EHE/A
CHECKED BY: JJ
DATE: 1/26/86
FIELD: 1/26/86
DATE: 1/26/86
CORRECTED BY: EHE/A
DATE: 1/26/86
MICRO-FILM INFORMATION
RECORDED BY: NO
DATE: NO

ENGINEER'S SEAL

DATE: 4/28/86

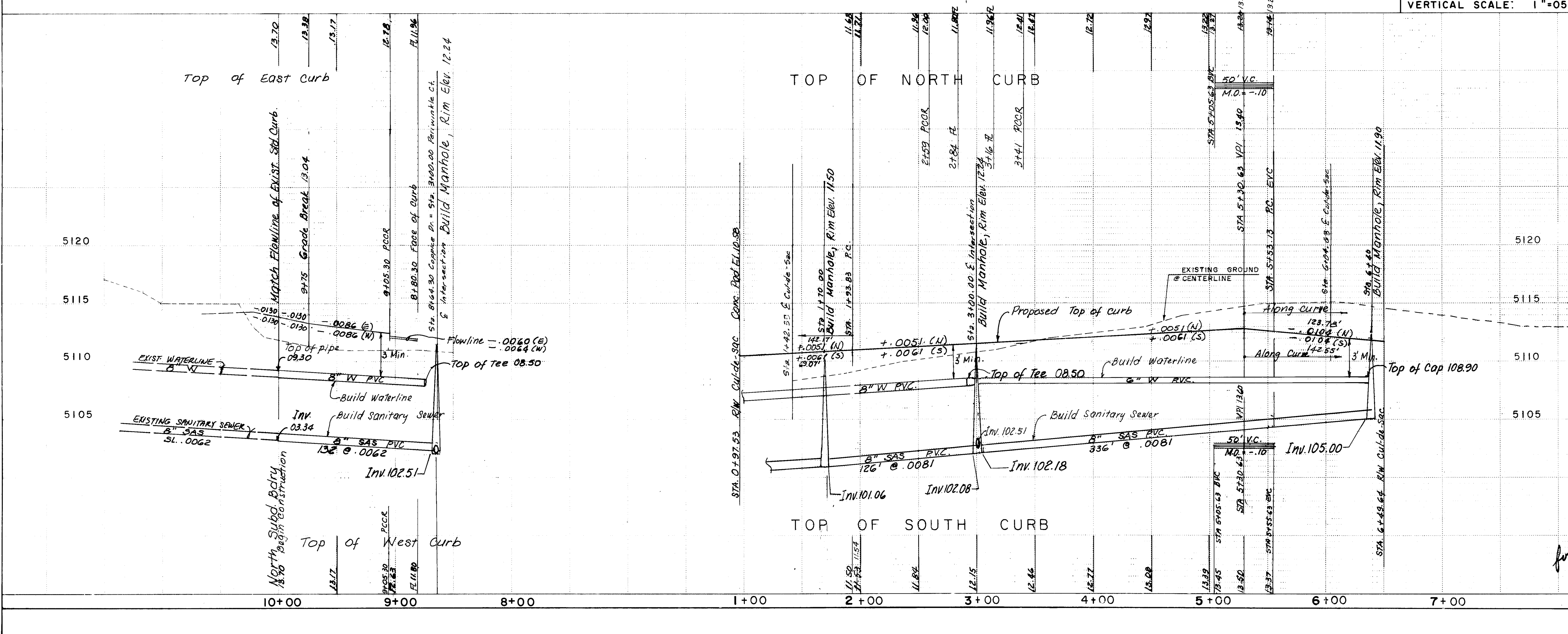
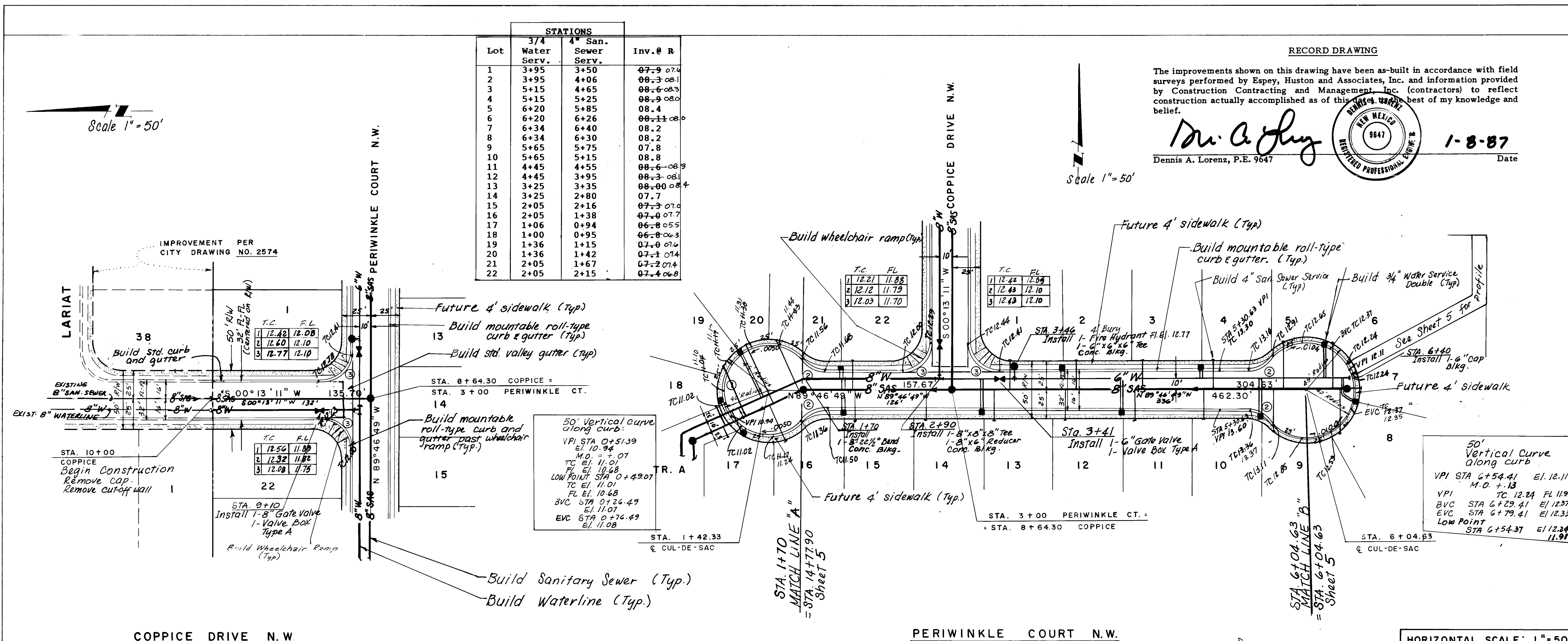
CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: PRAIRIE RIDGE 1-A
SANITARY SEWER & DRAINAGE OUTFALL

APPROVALS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	for	7/11/86	Liquid Waste	W. Williams	6/29/86
A C E - Design	"	"	Traffic	JA-DWH	6/29/86
A C E - Hydrology	"	"	Water	W. Williams	6/29/86

DRAWING NO. 2914
MAP NO. E11,12
SHEET 5 OF 7



RECORD DRAWING

The improvements shown on this drawing have been as-built in accordance with field surveys performed by Espey, Huston and Associates, Inc. and information provided by Construction Contracting and Management, Inc. (contractors) to reflect construction actually accomplished as of this date. I am a Professional Engineer in the State of New Mexico.

Dennis A. Lorenz
Dennis A. Lorenz, P.E. 9647

1-8-87
Date

Curve #	Radius	Delta	Arc.
1	40.00'	282° 51' 36"	197.80'
2	25.00'	51° 28' 48"	22.41'
3	25.00'	90° 00' 00"	39.27'

NOTES:

SANITARY SEWER

- SEWER PIPE SHALL BE VCP OR PVC.
- MANHOLES SHALL BE 4' DIA. TYPE E.
- SLOPES ARE BASED ON TRUE DISTANCES.
- PROVIDE EMD'S AT SERVICE LATERALS.

WATERLINE

- WATER PIPE SHALL BE DUCTILE IRON OR ASBESTOS CEMENT, OR PVC.
- STATIONS ARE BASED ON STREET CENTERLINE.
- WATERLINE SHALL HAVE MINIMUM 3.67' COVER TOP OF CURB TO TOP OF PIPE.
- Water Services shall be 3/4".

Paving

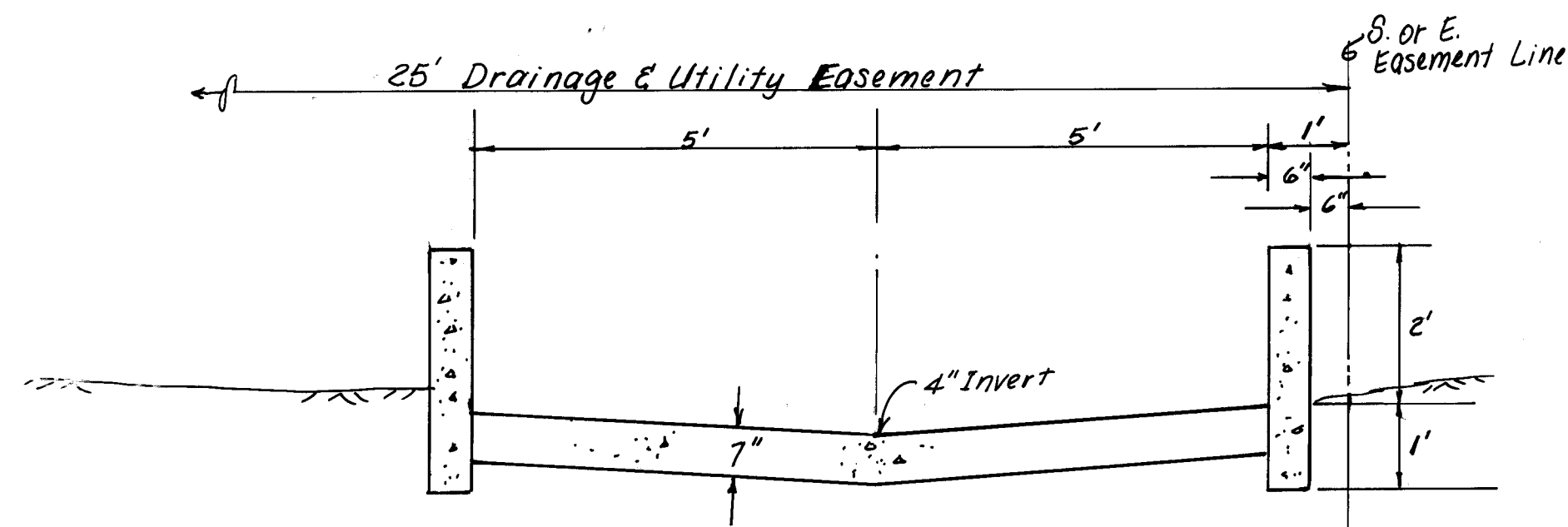
See Section "5-5" on Sheet 7 for pavement section.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

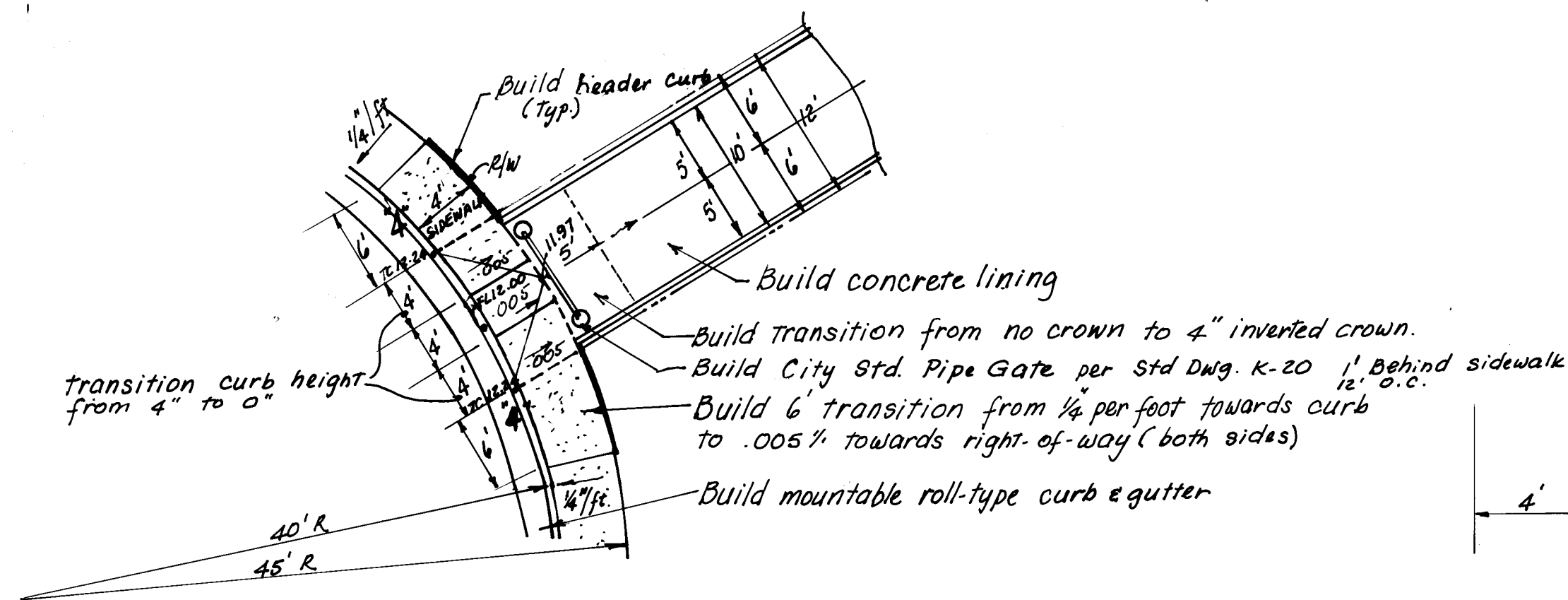
APPROVALS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	<i>[Signature]</i>	7/1/84	Liquid Waste	<i>[Signature]</i>	6/20/86
A C E - Design	"	"	Traffic	<i>[Signature]</i>	6/20/86
A C E - Hydrology	"	"	Water	<i>[Signature]</i>	6/20/86

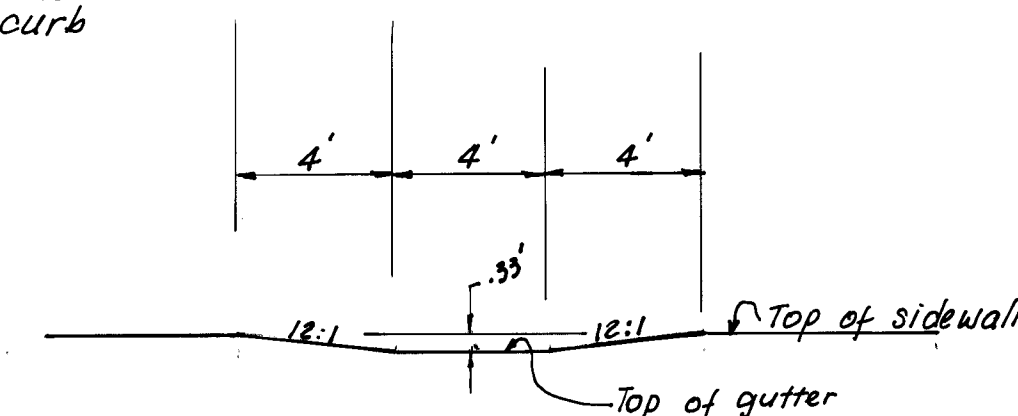
DRAWING NO. 2914 MAP NO. E-1 & E-12 SHEET 6 OF 7



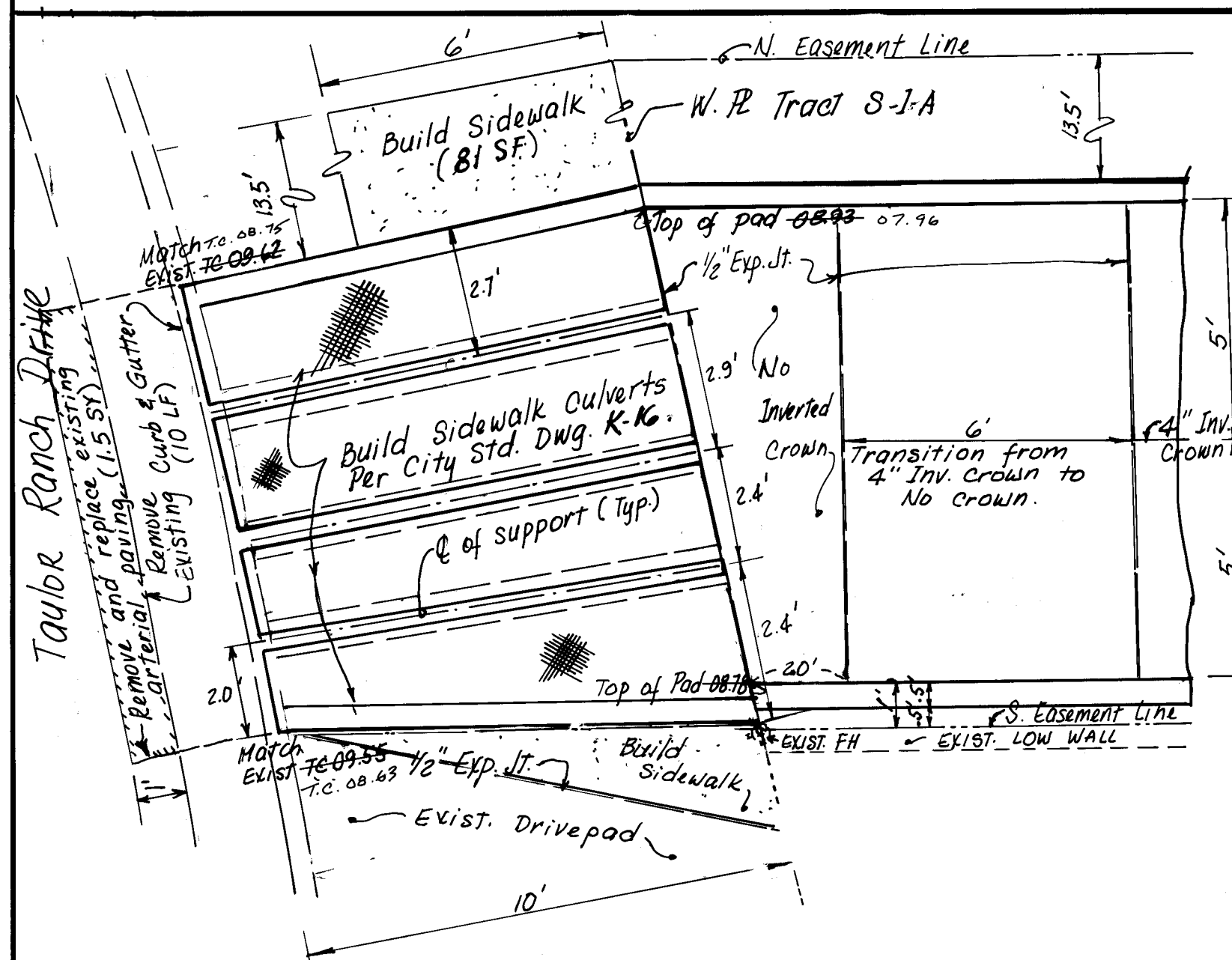
Section 1-1
Type A Concrete Lining
Scale 1" = 2'
For details, See City Std. Dwg. K-23



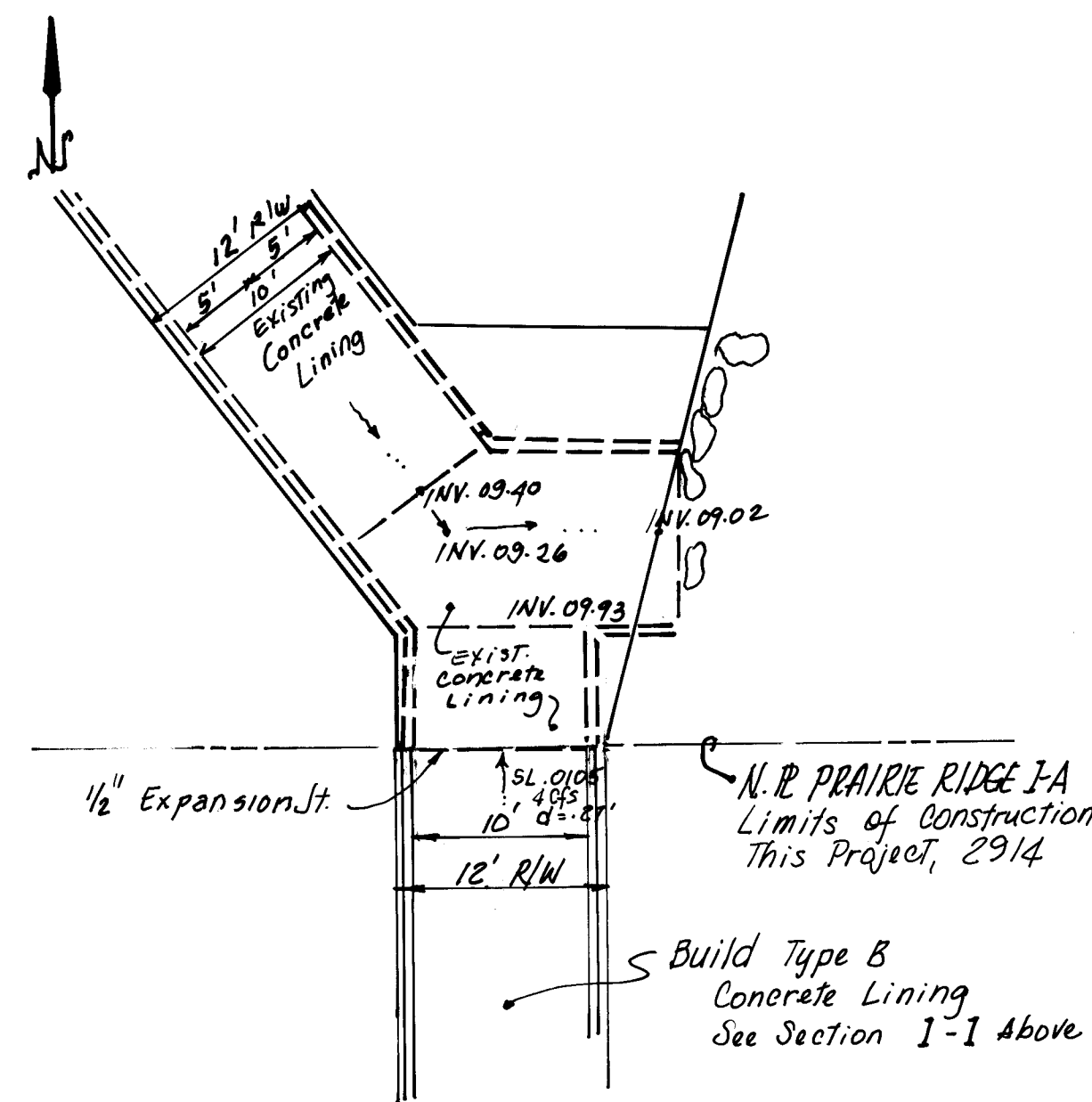
Detail "Z"
E. Easement at cul-de-sac
Scale 1" = 10'



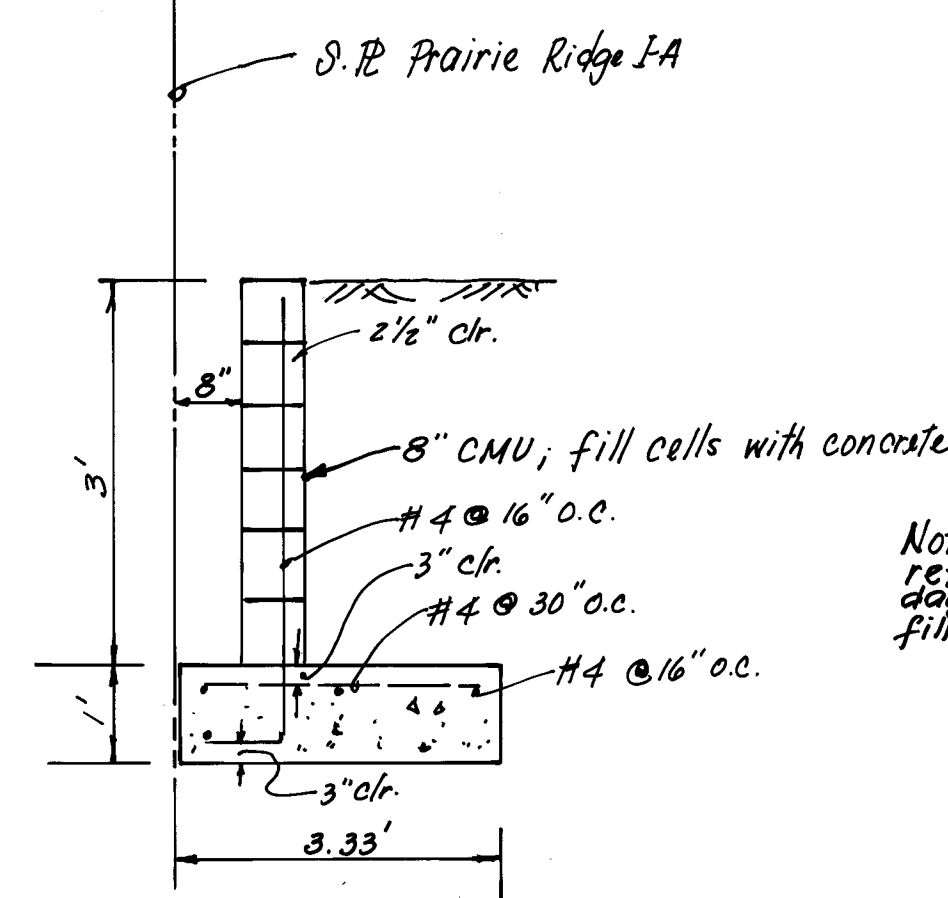
Section 4-4
Scale 1" = 5'



Detail "W"
Drainage Outlet (West)
Scale 1" = 3'

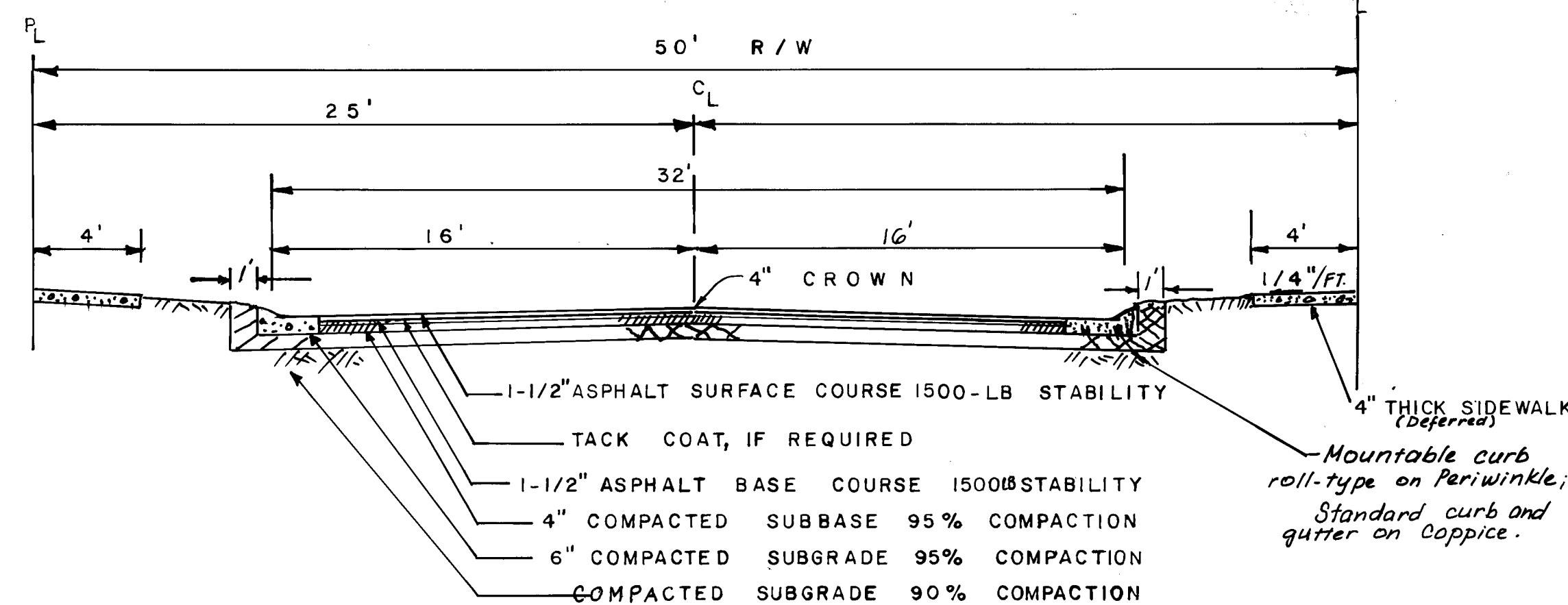


Detail "X"
DRAINAGE OUTLET (EAST)
Scale 1" = 10'

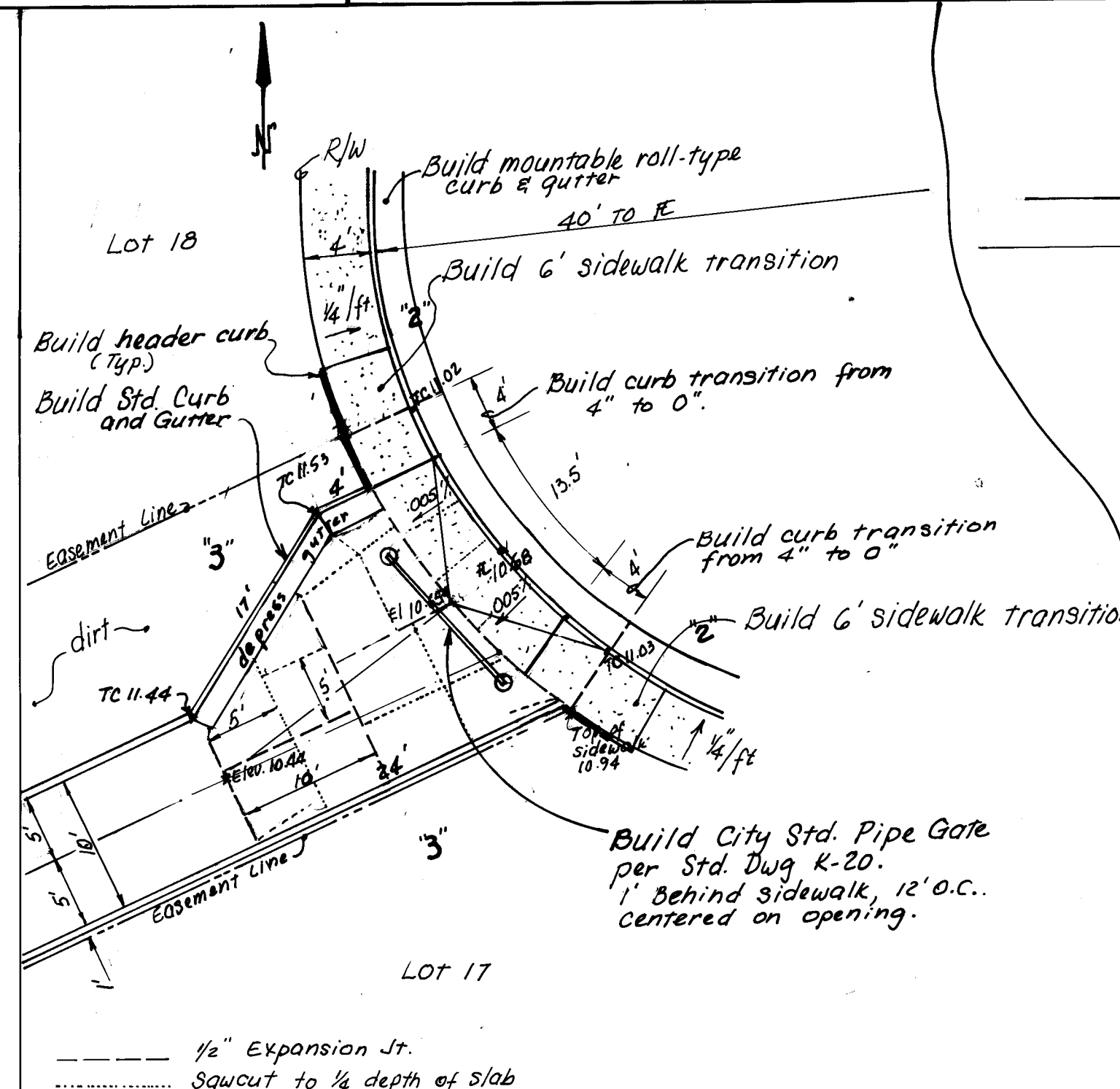


Retaining Wall
Scale 1" = 2'
(Private - Not Part of Work Order)

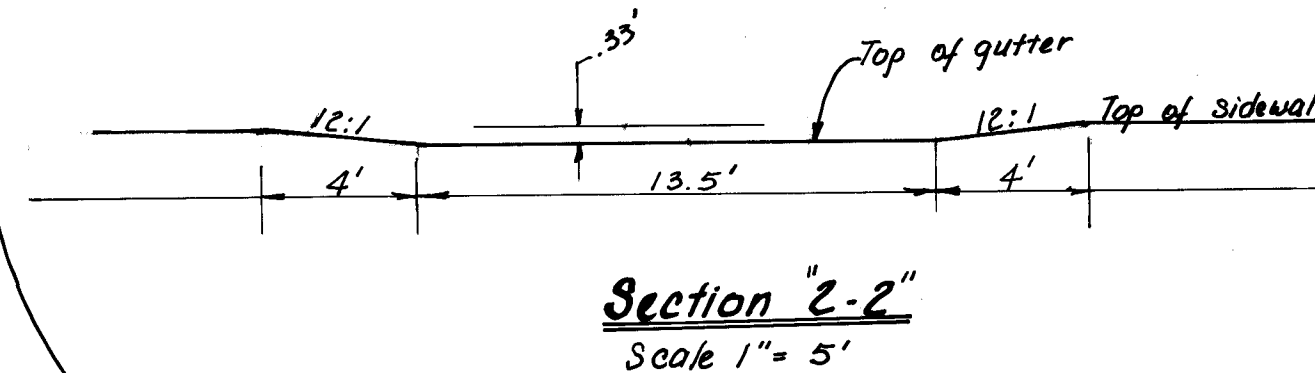
Note: Do not backfill against retaining wall at least 7 days after placing the core fill concrete.



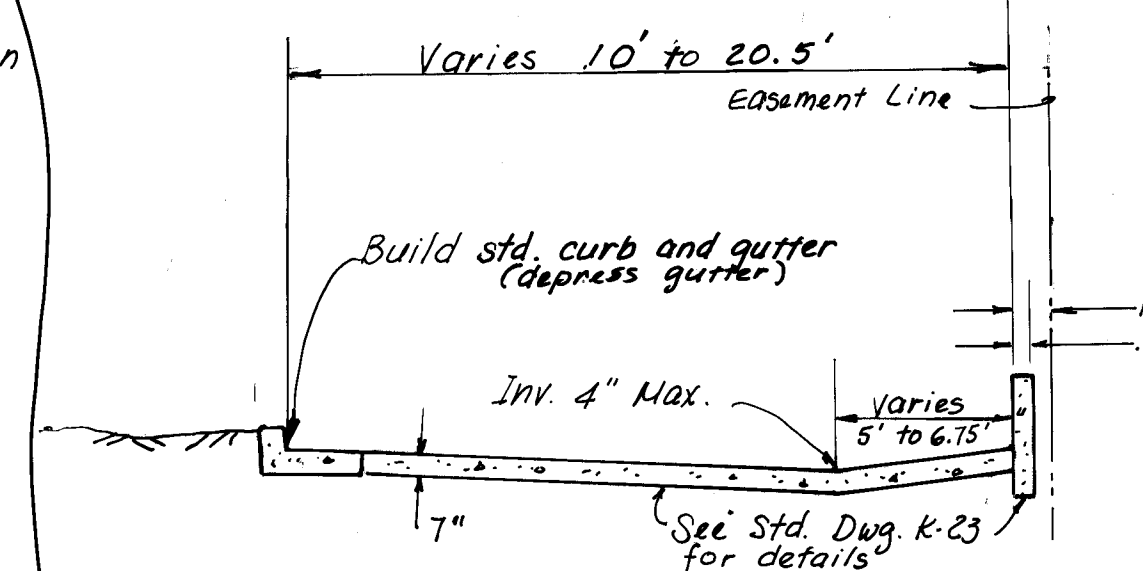
Section 5-5
PAVEMENT SECTION
SCALE 1" = 5'



Detail "Y"
W. Easement at Cul-de-sac
Scale 1" = 10'



Section 2-2
Scale 1" = 5'

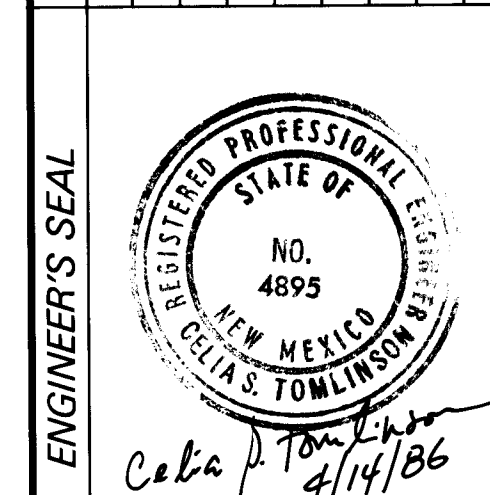


Section 3-3
Scale 1" = 5'

AS BUILT INFORMATION	
CONTRACTOR	C.C.M.I.
WORK	BY EPEY WATSON
INSPECTORS	DATE
ACCEPTANCE BY	DATE
VERIFICATION BY	DATE
DRAWINGS	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

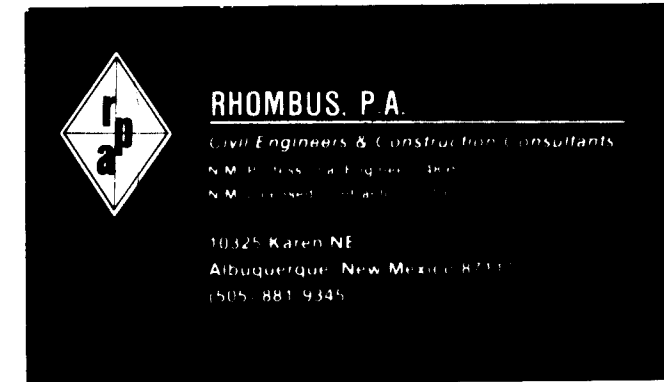
BENCH MARKS	
CONTRACTOR	AGS-BH 3-E12
WORK	Top of steel rail RW marker
INSPECTORS	STA 261+50 located approximately
ACCEPTANCE BY	100' N.E. of the intersection of
VERIFICATION BY	Coors and Hantano Rd on the
DRAWINGS	East RW line.
MICRO-FILM INFORMATION	
RECORDED BY	
NO.	

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	
NO.	



REVISIONS	
NO.	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

26 29140787



CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE: PRAIRIE RIDGE I-A
Details

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	John H. H.	7/1/86	Liquid Waste	John H. H.	6/20/86
A.C.E. Design	"	"	Traffic	John H. H.	6/20/86
A.C.E. Hydrology	"	"	Water	John H. H.	6/20/86

DRAWING NO. 2914 MAP NO. E 11, 12 SHEET 7 OF 7