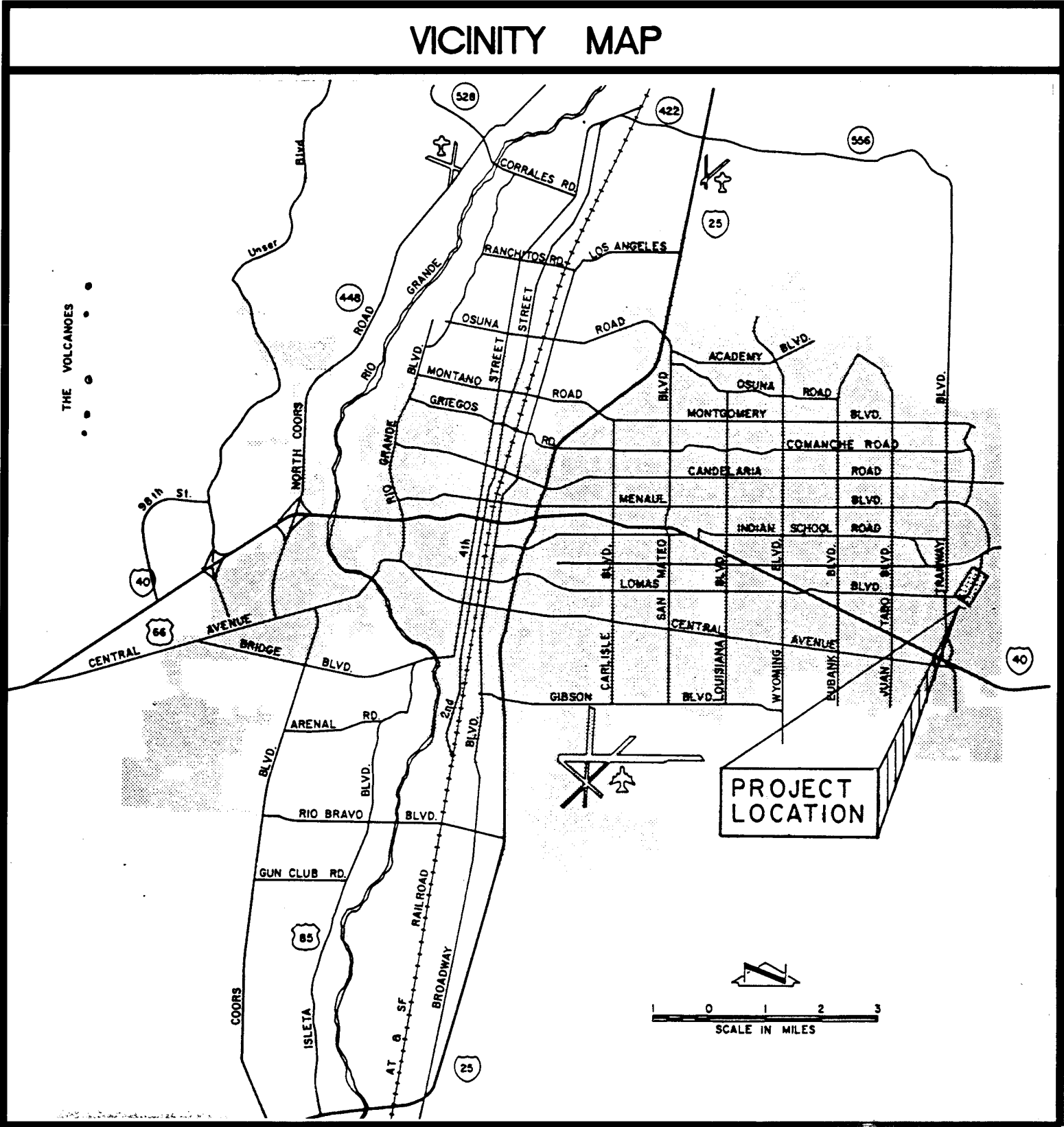




INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE, VICINITY MAP, INDEX OF SHEETS
2	GENERAL NOTES/LEGEND
3	SUMMARY OF ESTIMATED QUANTITIES
4	GEOMETRICS PLAN
5-6	ROADWAY TYPICAL SECTIONS
7	ROADWAY PLAN & PROFILE - STA. 11+00 TO STA. 16+00
8	ROADWAY PLAN & PROFILE - STA. 18+00 TO STA. 21+00
9	ROADWAY PLAN & PROFILE - STA. 21+00 TO STA. 25+90
10	ROADWAY PLAN & PROFILE - STA. 25+90 TO STA. 31+00
11	ROADWAY PLAN & PROFILE - STA. 31+00 TO STA. 36+00
12	ROADWAY PLAN & PROFILE - STA. 19+00 TO STA. 20+00
13	STORM DRAIN PLAN & PROFILE
14	INTERSECTION MODIFICATIONS - MICHAEL HUGHES DR. / SASEBO ST.
15	RECREATIONAL TRAIL PLAN - TRAMWAY BLVD. TO TURNER ST.
16	RECREATIONAL TRAIL PLAN - TURNER ST. TO MONTE LARGO DR.
17	LOMAS BASIN LOW FLOW CHANNEL AND GRADING PLAN
18	LOW FLOW CHANNEL AND OUTLET WEIR MODIFICATION
19	STRIPING PLAN
20-22	CONSTRUCTION TRAFFIC CONTROL PLANS
23-26	ROADWAY CROSS SECTIONS

CITY OF ALBUQUERQUE

NEW MEXICO

CONSTRUCTION PLANS

FOR

WIDENING OF LOMAS BOULEVARD

STUTZ DRIVE TO

MONTE LARGO DRIVE

C.O.A. PROJECT NO. 3845

C of A PWD Maps & Records

1	2	3	4	5	6	7	8	9	10	11	12
26	38	45	0	19	1						

APPROVAL OF AS BUILT DRAWINGS

CONSTRUCTION ENGINEER

DATE

REV.	SHEETS	CITY ENGR.	DATE	USER	DEPT.	DATE	USER	DEPT.	DATE

GENERAL NOTES:

1. City of Albuquerque "Standard Specification for Public Works Construction", 1986 edition shall govern the construction of this project.
2. All data shown herein concerning existing utilities has been obtained from the owners of the utilities, from records of the City of Albuquerque, and from field observations. These may or may not be accurate. The Contractor is cautioned that he is responsible for determining the exact locations and for protection of all lines during construction. Utility relocations required by the construction of this project if any, are to be coordinated by the Contractor. No additional compensation will be allowed for delays or inconvenience caused by utility company work crews. The Contractor may be required to reschedule his activities to allow utility crews to perform their required work. Any damage to lines, valves, meters, etc., will be repaired or replaced by the Contractor at his expense.
3. Quantities shown herein for the various bid items are for the Contractor's information only. Payment shall be based on actual quantities as constructed.
4. There will be no measurement or payment for any items of work not specifically listed in the UNIT PRICE BID PROPOSAL. All other items of work or materials required to complete the project shall be considered incidental to other items of work.
5. Access to local residences shall be provided at all times. Access closures must be scheduled at least twenty-four (24) hours in advance with property owners and approved by the Project ENGINEER. Access for fire protection and emergency services must be open at all times. Schedules for the release of work will be determined at the pre-construction conference. Additional or supplemental schedules may be required as the project progresses, as requested by the Project ENGINEER.
6. It is the contractors responsibility to know and comply with the "Occupational Safety and Health Act of 1970", as ammended.
7. The Air Pollution Control Regulations of the ALBUQUERQUE BERNALILLO COUNTY AIR QUALITY CONTROL BOARD limit emission of particulate matter and the use of cut back asphalt. It is the responsibility of the Contractor to clarify these restrictions with the ENVIRONMENTAL HEALTH DEPARTMENT prior to submittal of bids to avoid conflicts with the regulations. Any required permits will be the responsibility of the CONTRACTOR.
8. All Excavation shall be governed by Federal, State and Local Laws and all rules and regulations concerning CONSTRUCTION SAFETY and HEALTH.
9. All Signs, Pavement Markings and Coding shall be in accordance with the "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", current edition, published by the U.S. DEPARTMENT OF TRANSPORTATION.
10. Noise Supression Devices shall be kept in working order on all equipment in accordance with all Federal and State Regulations and City Ordinances throughout the course of CONSTRUCTION.
11. The Contractor shall confine his operations to the construction limits of the project and will be held responsible for any damage caused by his operation to public or private property, including utilities.
12. Watering for Dust Control, as required, shall be considered incidental to construction, and no measurment or payment shall be made therefor. Construction areas shall be watered or otherwise kept dust free. The Contractor shall use watering equipment for dust pollution abatement as directed by the Project ENGINEER.
13. All new, Proposed, build, relocate, adjust, or remove notes are to be performed by the Contractor under this Contract unless otherwise noted.
14. During non-working hours, construction equipment shall not obstruct driveway openings onto private properties and shall not be parked within the right-of-way. The Construction Clear Zone for this Project is 15 feet from the edge of the driving lane. The CONTRACTOR shall not store any equipment or material within the Construction Clear Zone.
15. A minimum of two (2) working days prior to any excavation the Contractor must contact ONE CALL line locating service (260-1990) for field locations of existing utilities.
16. The CONTRACTOR is to exercise care when removing existing pavement to avoid disturbing any existing underground utilities. It shall be his responsibility to coordinate with the UTILITY COMPANIES in order to prevent any service disruption. Any existing utilities or service lines that do not require relocation and are damaged by the CONTRACTOR shall be removed and replaced at the CONTRACTORS EXPENSE. This expense shall be considered incidental to the project and no separate payment will be made.
17. CURB and GUTTER, SIDEWALKS and DRIVEPADS shown as existing and not to be removed under this CONTRACT, which are damaged or displaced by the CONTRACTOR, shall be removed and replaced by the CONTRACTOR at his expense.
18. The CONTRACTOR shall be responsible for protecting, supporting and maintaining in service all existing utilities. No direct payment will be made for this work.
19. The CONTRACTOR is responsible for any damage caused by him to existing valve boxes, traffic conduit and manholes during construction and shall repair or replace same at his own expense. The CONTRACTOR shall protect the curb and gutter from incidental splashing during tack coat application and shall be responsible for cleaning the same at his own expense in the event of splashing as directed by the project ENGINEER.
20. All ties to existing pavement shall be a neat line saw cut joint. Saw cut existing pavement on a straight line and at right angles to remove any broken or cracked pavement.
21. Existing concrete driveways, curb return fillets, asphaltic driveway and paved parking lots shall be saw cut to a neat line where matched to new construction. Curb and gutter and sidewalk shall be removed to nearest joint.
22. All Gas Valve Boxes, Gas Manholes, Electrical Manholes, Telephone Manholes and Utility Poles will be adjusted to grade or relocated by others.
23. Some utility adjustments will be done concurrent with construction by Some utility Companies Involved. The CONTRACTOR is hereby advised that he shall coordinate his work with respective Utility Companies with enough time so as not to impede his work.
24. The City of Albuquerque Traffic Division will make all required adjustments to existing permanent signing and will install final permanent signing upon completion of construction. The contractor will be responsible for permament striping and all construction signing and traffic control during construction.
25. Prior to construction of Underground facilities, the Contractor shall excavate and verify the horizontal and vertical locations of all possible obstructions. Should a conflict exist, the Contractor shall notify the Project ENGINEER so that the conflict can be resolved with minimum amount of delay. This work shall be considered incidental to construction and no direct payment will be made thereof.
26. All permanent striping and pavement markings for this project shall be applied by the CONTRACTOR. Payment for this work will be made under appropriate bid items.

27. All curb dimensions shown are to face of curb unless otherwise noted.
28. The use of thirty-five (35) ton or greater roller or vibratory roller will not be allowed on this project. The required compaction shall be affected by means of other types of compaction equipment.
29. Subgrade preparation under Curb and Gutter, Sidewalks and Drivepads shall be considered incidental to the Construction of such and no direct payment shall be made. Cost to be included in price bid for those items.
30. The Contractor is responsible for the protection of his work from rainfall, storm drainage, or flood so that it does not delay construction or damage completed work or downstream properties.
31. A Disposal Site for all excess excavation material, asphaltic paving, concrete curb and gutter, foundations and walls shall be obtained by the CONTRACTOR. All cost incurred in obtaining a Disposal Site and haul thereto shall be included in the unit bid price for removals. No direct payment will be made for this work.
32. The CONTRACTOR shall remove the Bituminous Pavement Surfaces to the limits shown on the plans, as directed by the project ENGINEER along a straight line, saw cut where required, to full depth. The owner makes no representation in regard to the relative ease or difficulty that the CONTRACTOR may encounter in performing this work. It is the CONTRACTOR'S sole responsibility to thoroughly investigate site conditions and submit a bid in accordance with what he has discovered.
33. All sanitary sewer and storm drain, manhole frames and covers and water valve frames and lids left in service within the project limits shall be adjusted to grade in accordance with the Standard Details.
34. All new reinforced concrete pipe (RCP) for storm drain construction shall be Class IV unless otherwise noted on the plans.
35. Materials Testing and Construction Staking to be performed by the City of Albuquerque.
36. Permanent signing to be performed by City of Albuquerque, Traffic Operations, prior to placement of roadway into service.
37. Joints, where existing Curb and Gutter abuts existing asphalt pavement which is to remain, are to be routed, cleaned, and sealed prior to placement of overlay. No direct payment will be made for this work. This work is considered incidental to paving bid items.
38. EARTHWORK - Payment will be made for Roadway Excavation, bid item No. 4 which includes excavation of unclassified material from within roadway to limits shown. Material excavated is to be used as compacted fill in low areas within roadway to lines and grades shown. Excess material, if any, to be disposed of with no additional compensation. No direct payment will be made for fill construction. Cost to be included in price bid for roadway excavation.

LEGEND	PROPOSED	EXISTING
BUILDING		
WIRE MESH, CHAIN LINK FENCE		
WIRE FENCE		
WOOD FENCE		
ROCK OR BLOCK WALL		
POST OR BOLLARD		
SIGN		
TREE		
FLOW LINE OF DITCH		
RAILROAD TRACKS		
CURB & GUTTER		
LAYDOWN CURB, DRIVEPAD		
SIDEWALK OR RECREATION TRAIL		
WHEEL CHAIR RAMP		
PAVING LIMITS		
DIRT ROAD		
EARTH		
CONTOURS		
TELEPHONE BOX		
UTILITY POLE		
UTILITY POLE w/GUY WIRE		
STREET LIGHT, LUMINAIRE		
FIRE HYDRANT		
WATER VALVE		
AIR RELIEF VALVE		
WATER METER		
WATER SERVICE CONNECTION		
SANITARY SEWER MANHOLE		
STORM DRAIN MANHOLE		
SANITARY SERVICE CONNECTION		
TELEPHONE MANHOLE		
DROP INLET		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
GAS LINE		
UNDERGROUND POWER LINE		
OVERHEAD POWER LINE		
UNDERGROUND TELEPHONE LINE		
OVERHEAD TELEPHONE LINE		
UNDERGROUND CABLE TV LINE		
EXISTING CONSTRUCTION CENTERLINE		
NEW BASE LINE		
CITY MONUMENT		
BENCH MARK		
R/W LINE, PROPERTY LINE		
EASEMENT		
FINISHED FLOOR ELEVATION		
SPOT ELEVATION		
CONTROL POINT, P.I.		
SECTION CORNER		
CONDUIT		
PEDESTAL POLE BASE		
PEDESTAL POLE w/SIGNAL		
MASTARM W/SIGNAL		
PULL BOX		
CONTROLLER		
DETECTOR LOOPS		
BARRICADE		
CURVE DATA REFERENCE		
FACE OF CURB CURVE DATA		
TEXTURED CONCRETE MEDIAN PAVEMENT		
FRICTION COURSE LIMITS		
RIPRAP		
LIMITS OF RIPRAP		

FOR INFORMATION AND PROJECT COORDINATION WITH PRIVATE UTILITY COMPANIES CONTACT THE FOLLOWING INDIVIDUALS:

U.S. WEST COMMUNICATIONS
CASSIE KELLEY
P.O. BOX 1355, STA. 954
201 3rd STREET N.W.
ALBUQUERQUE, N.M. 87103
PHONE: (505) 245-6866

A.T. & T.
ISHMAEL PANTOJA
P.O. BOX 12321
ALBUQUERQUE, N.M. 87195
PHONE: (505) 842-2806

GAS COMPANY OF NEW MEXICO
TIM CINNOVA
4625 EDITH BOULEVARD N.E.
ALBUQUERQUE, N. M. 87107
PHONE: (505) 889-2538

JONES INTERCABLE
KAREN JARAMILLO
P.O. BOX 27138
ALBUQUERQUE, N.M. 87125
PHONE: (505) 761-6200

PUBLIC SERVICE CO. OF NEW MEXICO.
TOM KRATTIGER
ALVARADO SQUARE
MAIL STOP 0208
ALBUQUERQUE, N. M. 87158
PHONE: (505) 848-4947

FOR INFORMATION REGARDING CITY OWNED UTILITIES AND UTILITY COORDINATION CONTACT:

CITY OF ALBUQUERQUE
JOE LUEHRING
P.O. BOX 1293
ALBUQUERQUE, NEW MEXICO
PHONE: (505) 768-2577

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	GUARDIAN	MECHANICAL	FIELD NOTES	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91	DATE 6-3-91
MICRO-FILM INFORMATION			REMARKS			DESIGNED BY			CHECKED BY		
DATE			DATE			DATE			DATE		
DATE			DATE			DATE			DATE		

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: WIDENING OF LOMAS BOULEVARD					
GENERAL NOTES / LEGEND					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	11-28-90	WATER	R.W. Kane	11-28-90
TRANSPORTATION	R.W. Kane	11-28-90	WASTE WATER	R.W. Kane	11-28-90
HYDROLOGY	R.W. Kane	11-28-90	PARKS & REC.	R.W. Kane	11-28-90
PROJECT NO.	C.O.A. 3845	MAP NO.	J-23	SHEET	2 OF 26



SUMMARY OF QUANTITIES

				COA PROJECT NO 3845															
				ROADWAY		STORM DRAINAGE		DESILTATION BASIN		RECREATIONAL TRAIL		WATER						PROJECT TOTAL	
BID ITEM NO.	SPEC. I.D. NO.	ITEM	UNIT	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
1	6.01	CONST SIGN	EA	3														3	
2	19.01	TRAFFIC CONTROL & BARRICADING	JOB	1														1	
3	201.01	SITE CLEARING & GRUBBING	AC	1.55														1.55	
4	202.XX	ROADWAY EXCAVATION	CY	3150														3150	
5	301.03	SUBGRADE PREP, RES, 6"	SY							4000								4000	
6	303.03	SUBBASE, 8"	SY	7500														7500	
7	331.01	SURFACE PREP, AC OVERLAY	SY	4400														4400	
8	335.01	PAVING FABRIC W/TACK COAT	SY	4600														4600	
9	336.01	PRIME COAT	SY	7500														7500	
10	336.12	TACK COAT	SY	7500														7500	
11	336.15	2" AC SURFACE COURSE, 1500, M	SY							4000								4000	
12	336.18	2" AC SURF COURSE, 1800, M	SY	11,900														11,900	
13	336.XX	3" AC SFC, 1800, M	SY	7500														7500	
14	340.01	SIDEWALK 4", PCC	SF	5250														5250	
15	340.05	CURB & GUTTER, STD, PCC	LF	3180														3180	
16	340.06	CURB & GUTTER, MDN, PCC	LF	200														200	
17	340.07	PIN CURB, TYPE I, PCC	LF	71														71	
18	340.XX	2'-6" CUT OFF WALL	LF					20										20	
19	340.21	SIDEWALK DRAIN	EA			1												1	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR SURVEILLANCE	MECHANICAL	DATE 3-3-91		DATE			BY
STAGED BY C.O.A.		DATE 3-3-91		DATE			
ADJUSTED BY U.I.F		DATE 3-3-91		DATE			
REVISIONS		DATE 3-3-91		DATE			
MICRO-FILM INFORMATION							
RECORDED BY		DATE		RECORDED BY			

Cof Asmt & Reports
26 3845 0391

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: WIDENING OF LOMAS BOULEVARD					
SUMMARY OF QUANTITIES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		11-28-90	WATER	R.W. Kane	11-28-90
TRANSPORTATION		11-28-90	WASTE WATER	R.W. Kane	11-28-90
HYDROLOGY		11-28-90	PARKS & REC.		11-28-90
PROJECT NO.	C.O.A. 3845	MAP NO.	J-23	SHEET	3 OF 26

FACE OF CURB CURVE DATA						
CURVE NO.	RADIUS	ARC LENGTH	TANGENT	DELTA	CHORD BRG.	CHORD LENGTH
(1)	551.15	141.69	71.24	14-43-48	N84-37-37E	141.30
(2)	870.85	568.90	295.02	37-25-47	N58-32-50E	558.84
(3)	30.00	44.86	27.82	85-40-54	N82-40-24E	40.80
(4)	30.00	45.21	29.10	88-14-47	N10-39-21W	41.77
(5)	870.85	373.86	189.85	24-35-50	N21-10-07E	370.99
(6)	1416.39	148.11	74.12	05-59-29	N11-51-58E	148.04
(7)	150.00	38.58	19.40	14-44-18	N22-13-49E	38.48
(8)	150.00	31.23	15.67	11-55-50	N23-38-02E	31.18
(9)	1408.39	100.00	50.02	04-04-05	N19-42-09E	99.98
(10)	25.00	36.35	22.24	89-18-37	N85-09-39E	36.23
(11)	810.85	60.00	30.01	04-14-23	N51-03-51E	59.99
(12)	150.00	35.43	17.80	13-31-55	N55-42-37E	35.34
(13)	150.00	51.10	25.80	19-31-14	N52-42-58E	50.86
(14)	822.85	227.41	114.43	15-50-06	N35-02-18E	226.69
(15)	918.00	12.84	6.32	00-47-20	N28-28-57E	12.64
(16)	918.00	24.32	12.16	01-31-06	N27-08-19E	24.32
(17)	918.00	24.35	12.17	01-31-10	N25-26-45E	24.35
(18)	918.00	24.37	12.18	01-31-15	N23-45-10E	24.37
(19)	918.00	24.39	12.20	01-31-20	N22-04-58E	24.39
(20)	918.00	24.41	12.21	01-31-25	N20-20-36E	24.41
(21)	918.00	24.43	12.22	01-31-30	N18-40-25E	24.43
(22)	25.00	31.85	18.50	72-59-49	S07-00-27E	29.74
(23)	14.00	41.86	184.55	171-19-25	S56-10-15E	27.92
(24)	814.85	61.05	30.54	04-17-34	N36-01-15E	61.03
(25)	14.00	36.67	52.36	150-03-48	N41-09-25W	27.05
(26)	25.00	31.71	18.39	72-40-58	N78-50-50W	29.63
(27)	2.00	4.75	4.97	136-07-53	S19-56-32E	3.71
(28)	4.00	6.28	4.00	80-00-00	N48-59-32E	5.66
(29)	2.00	5.41	9.05	155-05-22	N75-38-12W	3.91
(30)	41.00	15.19	7.68	21-13-20	S37-30-44W	15.10
(31)	519.15	11.64	5.82	01-17-05	S48-20-06W	11.64
(32)	2.00	5.91	21.38	169-18-44	S35-40-43E	3.98
(33)	818.85	50.37	25.19	03-31-18	N57-54-11E	50.36
(34)	4.00	6.96	4.74	99-38-48	N06-19-03E	6.11
(35)	4.00	10.14	12.81	145-18-28	S63-50-25W	7.64
(36)	41.00	40.43	22.03	56-30-23	S19-26-22W	38.82
(37)	417.89	34.22	17.12	04-41-32	S67-07-30E	34.21
(38)	457.89	32.52	16.26	04-04-09	S56-31-14E	32.51

CONTROL POINT COORDINATES		
LOCATION	Y COORDINATE	X COORDINATE
STA. "DANNY" NGS BRASS TABLET	1,486,879.27	429,145.87
STA. "SIN" ACS BRASS TABLET	1,489,994.00	429,907.35
SCORP 5/8" REBAR	1,487,379.76	426,219.59
LOBO 1/2" REBAR	1,486,690.53	429,704.36
RAM 5/8" REBAR	1,488,414.32	429,447.43
INT. LOMAS/STUTZ, STA. 11+93.88	1,486,689.63	427,320.99
P.C. LOMAS, STA. 12+35.38	1,486,688.19	427,362.47
P.T. LOMAS, STA. 12+82.02 (FROM P.C.)	1,486,700.84	427,430.57
P.C.C. LOMAS, STA. 13+70.80	1,486,685.82	427,430.57
P.T. LOMAS, STA. 19+46.33 (FROM P.C.C.)	1,486,827.72	428,058.30
P.C. LOMAS, STA. 23+81.73 BK.	1,487,398.22	427,990.92
P.C. LOMAS, STA. 23+81.73	1,486,191.40	428,269.55
INT. LOMAS/SASEBO, STA. 18+92.58	1,486,828.95	427,789.98
INT. LOMAS/LURIA, STA. 19+73.18	1,487,022.95	428,197.14
INT. LOMAS/MICHAEL HUGHES, STA. 26+92.10	1,487,717.38	428,242.72
INT. LOMAS/CONNER CT., STA. 29+87.73	1,488,009.48	428,266.91
INT. LOMAS/FRUITT, STA. 33+55.01	1,488,273.03	428,374.99
INT. LOMAS/MONTE LARGO, STA. 35+37.50	1,488,540.96	428,374.99

CONTROL POINT TIES			
FROM	TO	DISTANCE	BEARING
SCORP	LOBO	880.52'	S. 38° 48' 47" W.
SCORP	RAM	1059.35'	N. 12° 25' 12" E.
SCORP	DANNY	1052.89'	S. 61° 37' 01" E.
DANNY	SIN	3206.47'	N. 13° 44' 17" E.

NOTES: 1) HORIZONTAL CONTROL IS BASED ON PUBLISHED STATE PLANE COORDINATES AT "DANNY" OF X=429,145.87, Y=1,486,879.27 AND GRID BEARING BETWEEN "DANNY" AND "SIN" OF N. 13° 44' 17" E.

2) "SCORP", "LOBO" AND "RAM" ARE JOB CONTROL POINTS SET BY SCANLON AND ASSOCIATES IN JANUARY OF 1990 FOR USE IN OBTAINING DESIGN SURVEY AND SHOULD BE USED FOR CONSTRUCTION STAKING. SEE GEOMETRICS PLAN FOR LOCATION AND DESCRIPTION OF THESE POINTS. SEE TABULATION ABOVE FOR COORDINATE VALUES.

EXIST. CONSTRUCTION @ CURVE DATA (A)

$\Delta = 37^{\circ}37'28"$
 $R = 600.00'$
 $T = 204.40'$
 $L = 394.00'$
 $D = 9^{\circ}32'57"$

NEW BASELINE CURVE DATA (2)

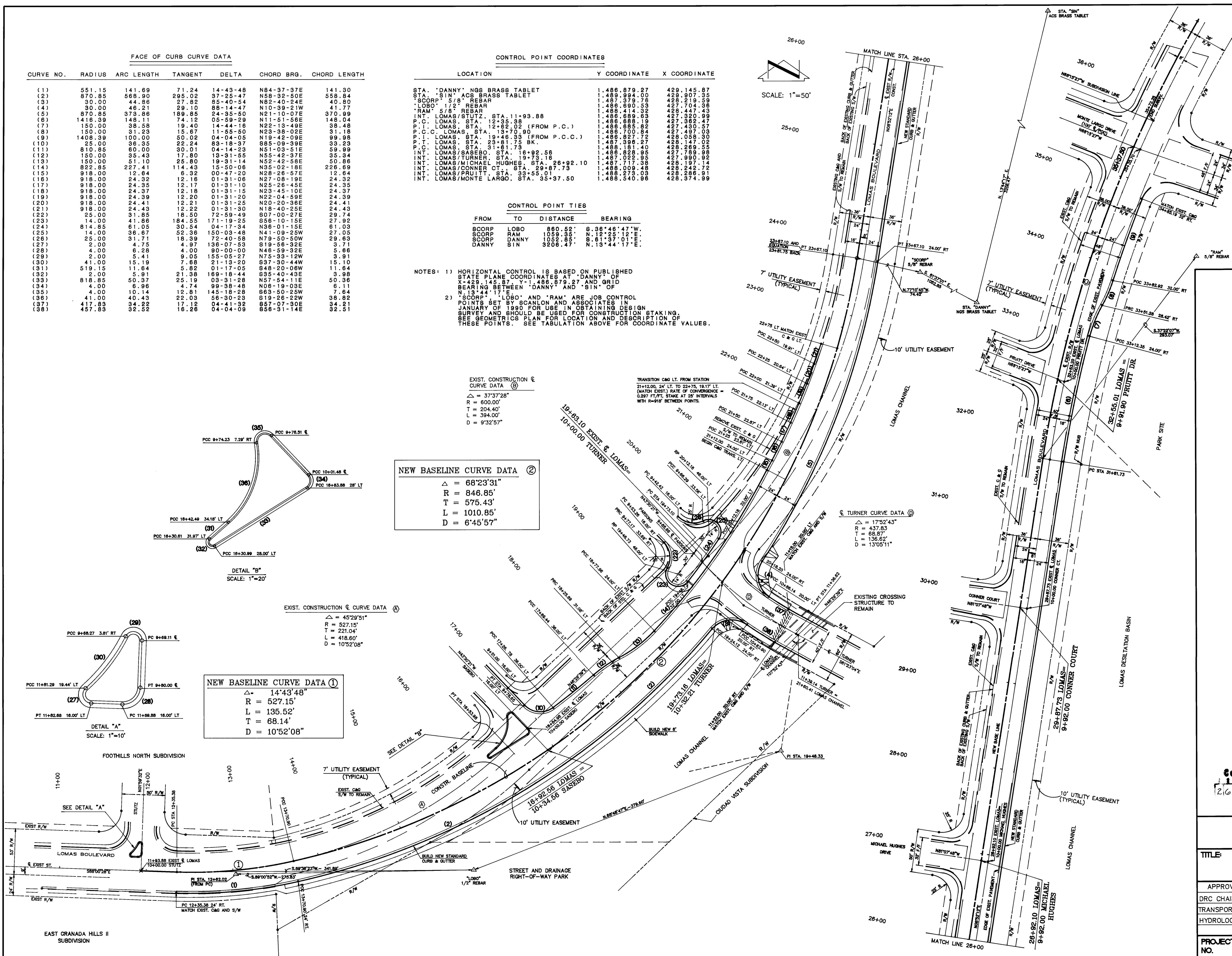
$\Delta = 68^{\circ}23'31"$
 $R = 846.85'$
 $T = 575.43'$
 $L = 1010.85'$
 $D = 6^{\circ}45'57"$

EXIST. CONSTRUCTION @ CURVE DATA (A)

$\Delta = 45^{\circ}29'51"$
 $R = 527.15'$
 $T = 221.04'$
 $L = 418.60'$
 $D = 10^{\circ}52'08"$

NEW BASELINE CURVE DATA (1)

$\Delta = 14^{\circ}43'46"$
 $R = 527.15'$
 $L = 135.52'$
 $T = 68.14'$
 $D = 10^{\circ}52'08"$



EXIST. CONSTRUCTION @ CURVE DATA (A)

$\Delta = 21^{\circ}31'51"$
 $R = 1432.39'$
 $T = 272.35'$
 $L = 538.27'$
 $D = 4^{\circ}10'0"$

TURNER CURVE DATA (D)

$\Delta = 17^{\circ}52'43"$
 $R = 437.83'$
 $T = 68.87'$
 $L = 136.62'$
 $D = 13^{\circ}05'11"$

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR: SUNDANCE MECHANICAL			ACS 8-123 EL-5804.785 BEING A SQUARE			FIELD NOTES					
STAMPED BY: C.O.A. / G.A.			CHISELED ON TOP OF CURB AT WNW CURB RETURN			NO.					
DATE: 6-3-91			AT THE JUNCTION OF CURB AT WNW CURB RETURN			BY			REMARKS		
DATE: 6-20-91			DR. N.E. IN THE NORTH WEST QUADRANT OF THE JUNCTION.			NO.			DESIGNED BY: R.W. Kane		
DATE: 6-3-91						NO.			DRAWN BY: JCL		
DATE: 6-3-91						NO.			CHECKED BY: RL		
DATE: 6-3-91						NO.			DATE: 11/28/90		
DATE: 6-3-91						NO.			DATE: 11/28/90		

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: WIDENING OF LOMAS BOULEVARD
GEOMETRICS PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	11-28-90	WATER	R.W. Kane	11-28-90
TRANSPORTATION	R.W. Kane	11-28-90	WASTE WATER	R.W. Kane	11-28-90
HYDROLOGY	R.W. Kane	11-28-90	PARKS & REC.	N.A.	

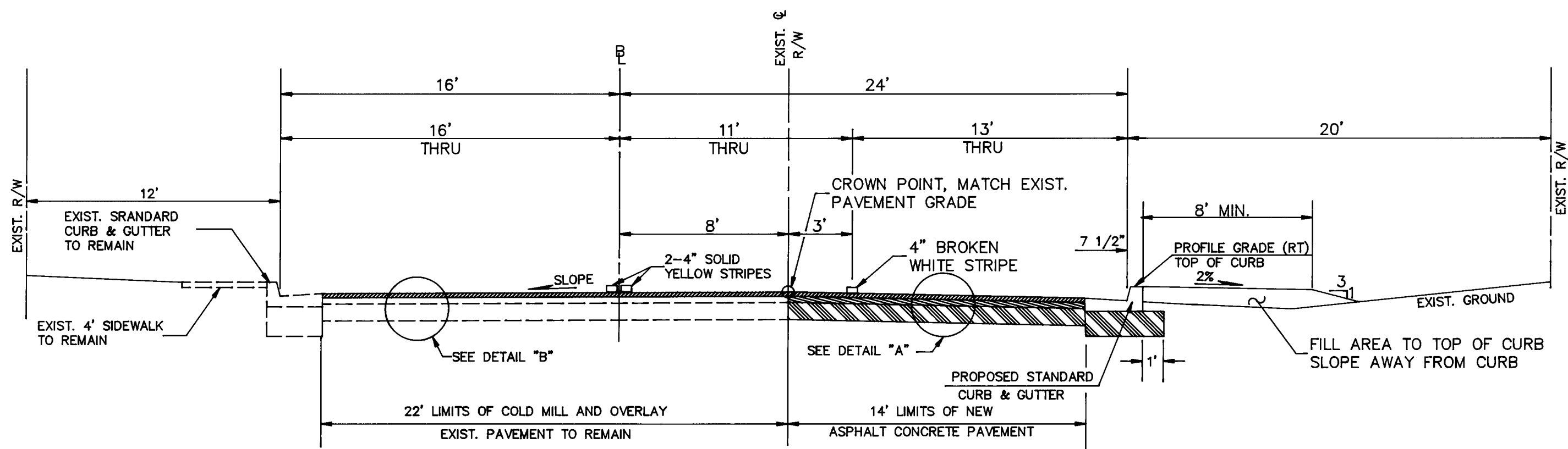
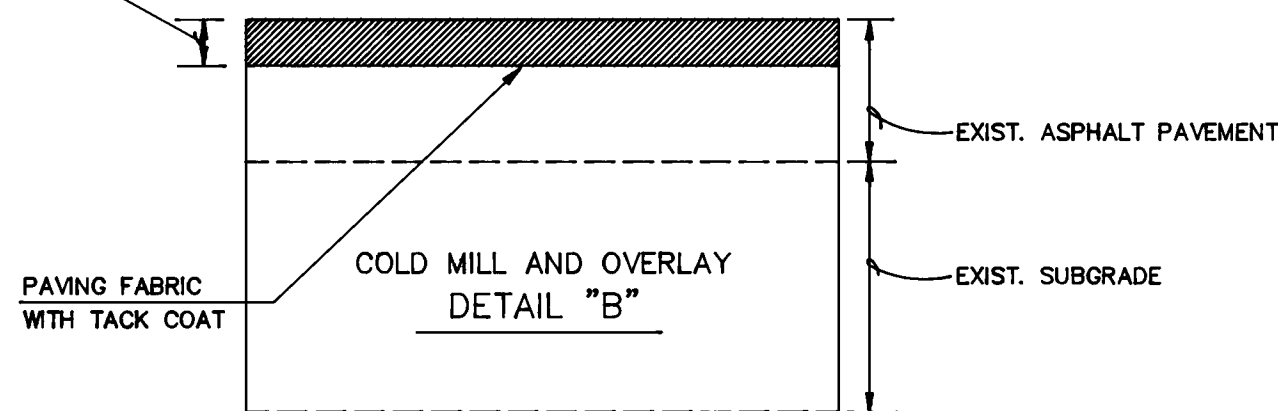
PROJECT NO. C.O.A. 3845 MAP NO. J-23 SHEET 4 OF 26

NOTES:

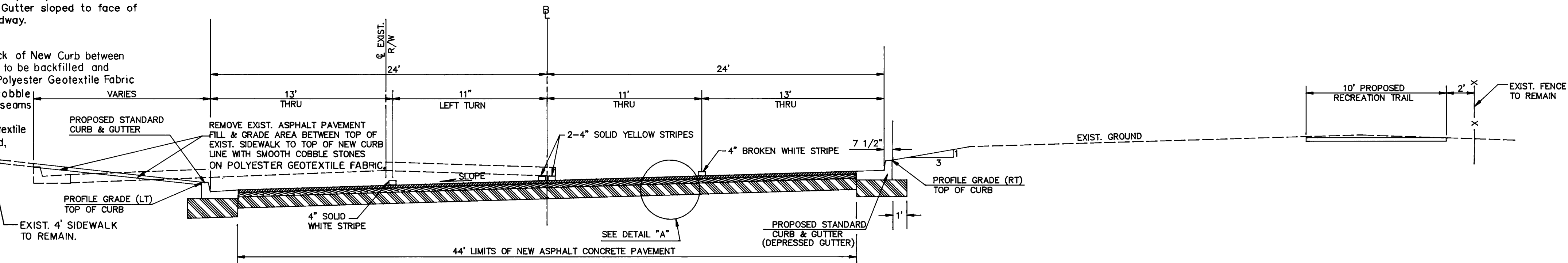
- 1) In areas where existing asphalt pavement is to remain, existing pavement is to be milled and overlaid. After milling operation, and prior to placement of overlay, the existing paving is to be inspected by the Project Engineer and, at his direction, all areas of pavement showing signs of failure are to be removed and replaced with new asphalt pavement. The subgrade below these areas is to be recompact to 95% of maximum density. Payment for this work will be made under the appropriate bid items for removal of existing materials and for installation of new pavement.
- 2) All cracks reflecting through existing asphalt pavement, which is to remain, are to be cleaned and sealed after milling operation and prior to placement of overlay. Cracks to be sealed are to be as directed by the Project Engineer. Payment for this work to be made under bid item: Surface Preparation, Asphalt Concrete Overlay.
- 3) See plan and profile sheets 7 thru 11 for limits of pavement removal and limits of existing pavement which is to remain and is to be cold milled and overlaid.
- 4) Install paving fabric on a tack coat after cold milling areas of pavement which are to remain. Fabric to lap 1'-0" beyond joints between new pavement and pavement which is to remain in order to reduce crack reflection to the surface at these joints.
- 5) Payment for Standard City of Albuquerque Curb & Gutter to be made under bid item No. 15, Curb & Gutter, STD, PCC which will include construction of Standard Curb & Gutter sloped to face of curb and depressed gutter sloped to roadway.

- 6) Area between existing front of Sidewalk to back of New Curb between Sasebor and approximately Sta. 22+50 left to be backfilled and graded smooth, then lined with a layer of Polyester Geotextile Fabric under a 4" layer of 1-1/2" - 3-1/2" smooth cobble stones. Geotextile fabric to be lapped at seams a minimum of 6". Fabric to be WARREN'S TERRABOND, Type II, 100% Polyester Geotextile fabric, No. III4, 42 ounces per square yard, 65 mils, or approved equal. Payment for this work will be made under Bid Item No. 61, and shall include back-filling, grading, Geotextile fabric and cobble stones.

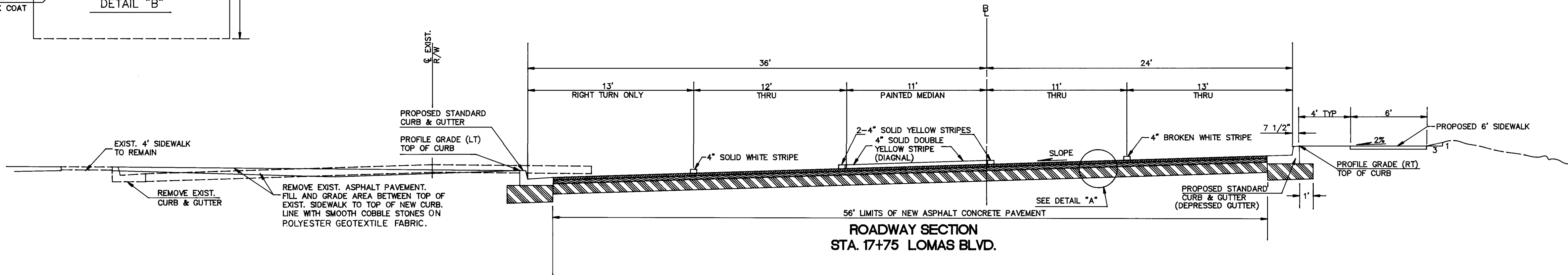
COLD MILL 1 1/2" OF EXIST. ASPHALT PAVEMENT AND OVERLAY WITH 2" ASPHALT CONC. SURFACE COURSE, 1800 LBS. STABILITY, GRADING TYPE "A"



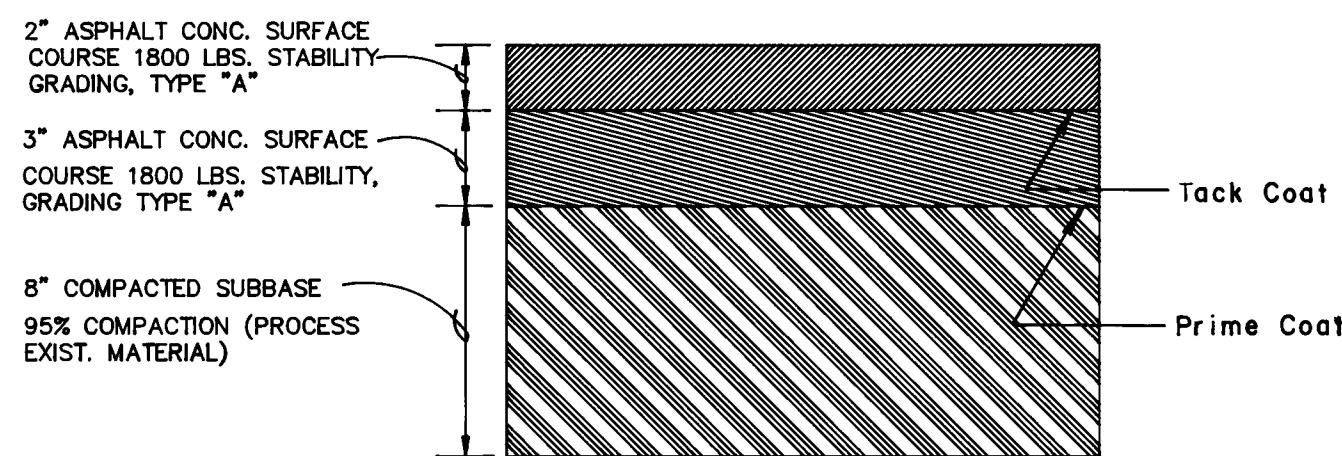
ROADWAY SECTION
STA. 28+00 LOMAS BLVD.



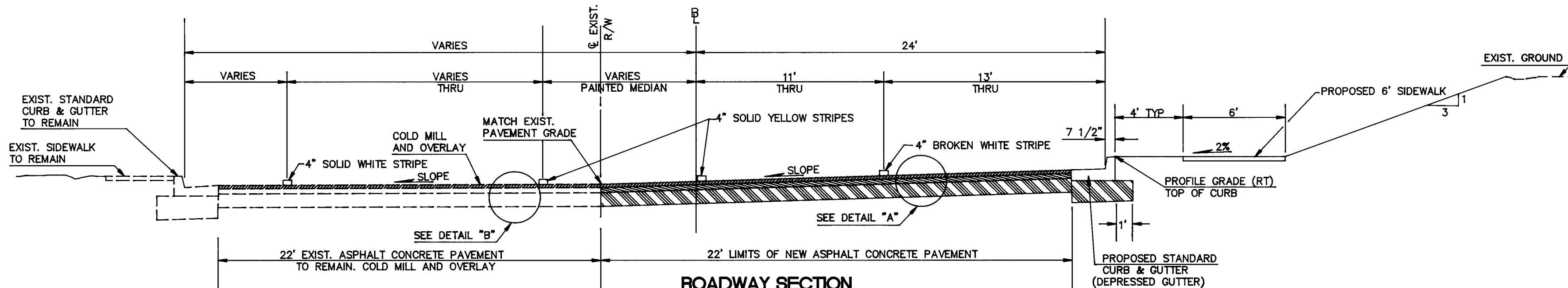
ROADWAY SECTION
STA. 21+00 LOMAS BLVD.



ROADWAY SECTION
STA. 17+75 LOMAS BLVD.



NEW ASPHALT CONCRETE
PAVEMENT SECTION
DETAIL "A"



ROADWAY SECTION
STA. 15+00 LOMAS BLVD.

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
WORK	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
STATIONED BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
APPROVED BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
DESIGNED BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
DRAWN BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
CHECKED BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
RECORDED BY	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.
DATE				CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.	CONTRACTOR	DATE	MECHANICAL	NO.

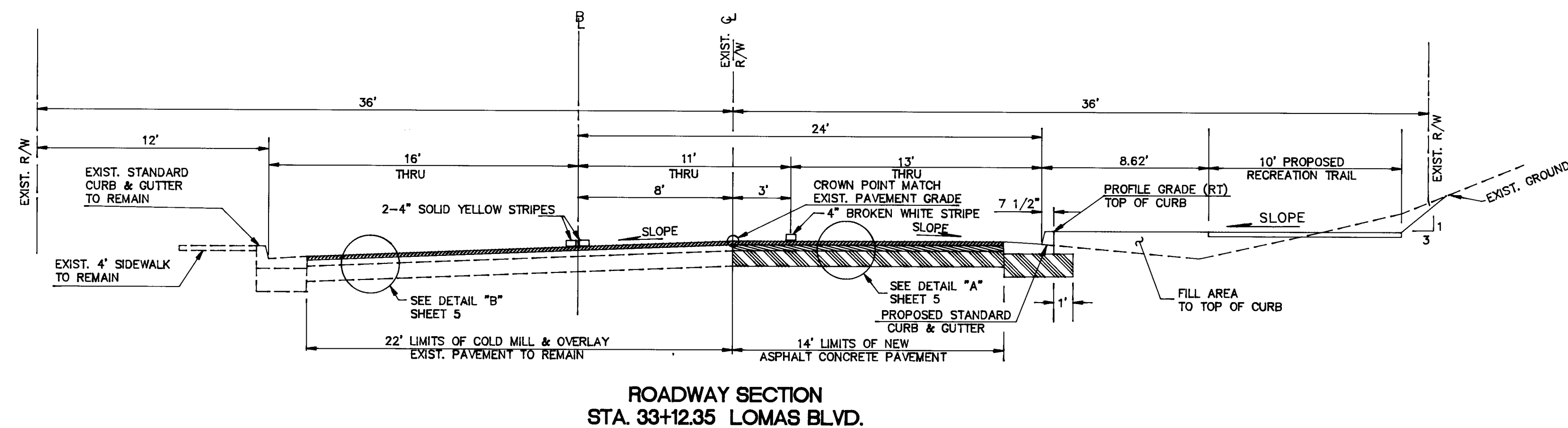
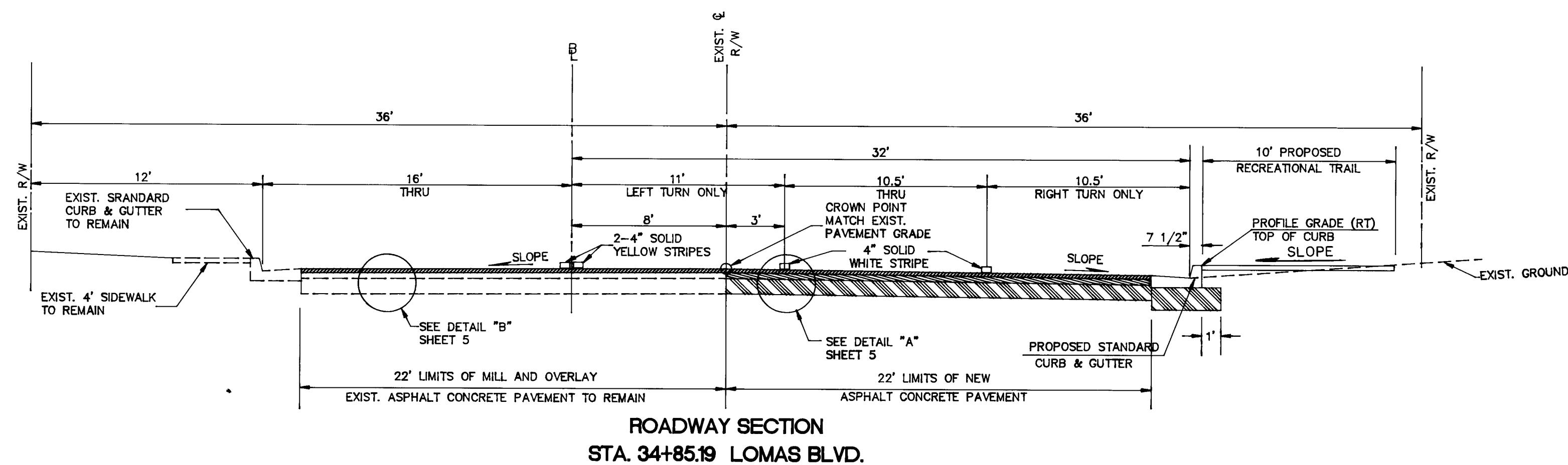
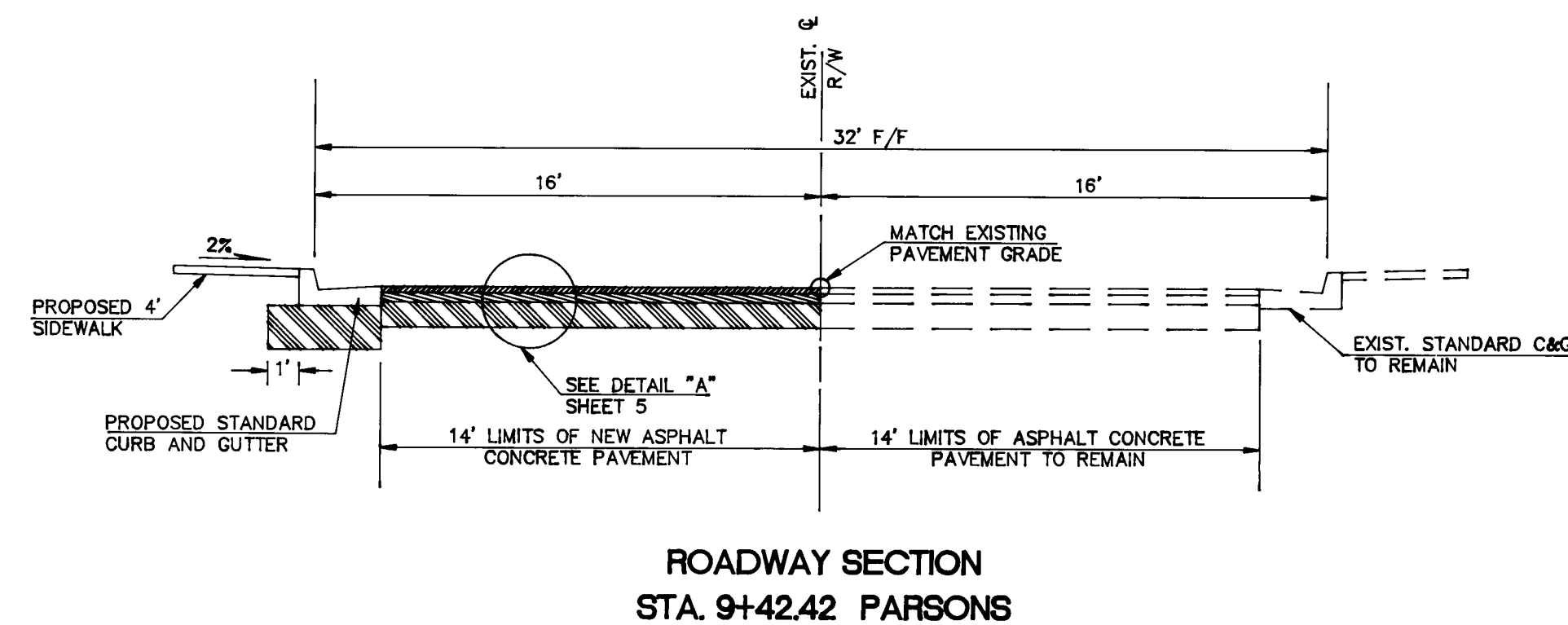
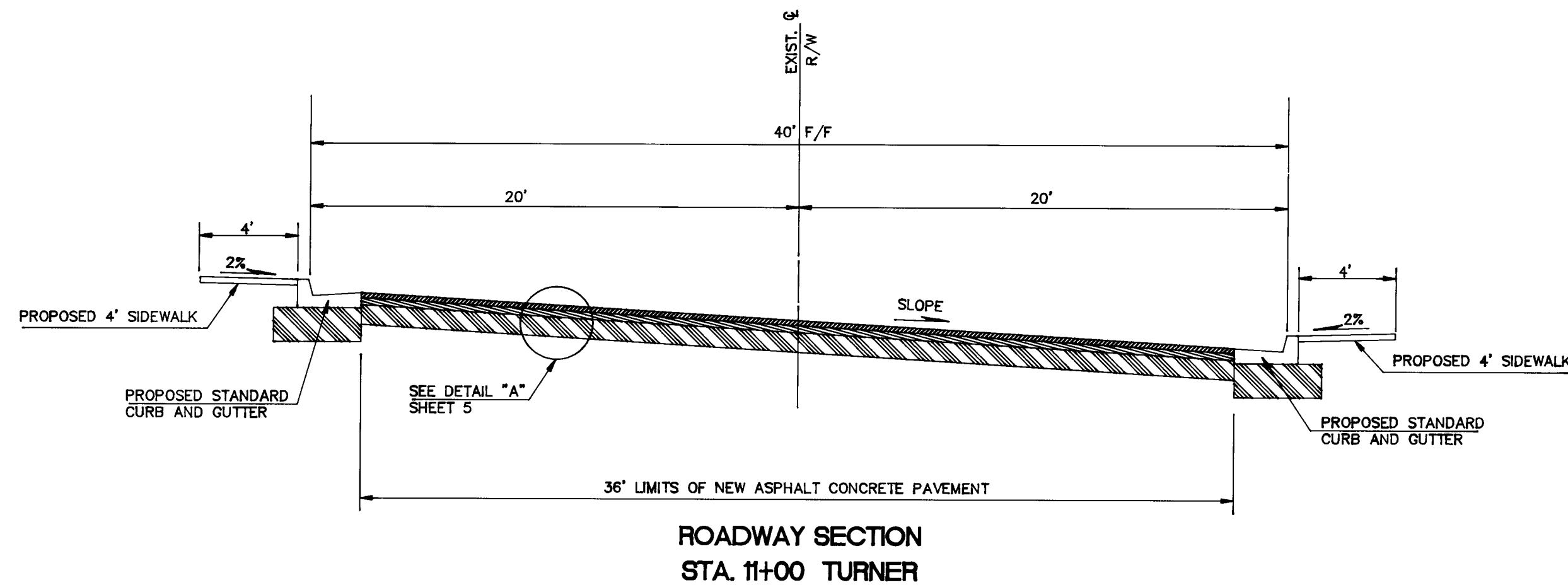
Richard J. Smith
11/28/90

26 13 8 4 15 0 5 9 1

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: WIDENING OF LOMAS BOULEVARD ROADWAY PAVING SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. J. Smith</i>	11-28-90	WATER	<i>A.W. Kane</i>	11-28-90
TRANSPORTATION	<i>R. J. Smith</i>	11-28-90	WASTE WATER	<i>A.W. Kane</i>	11-28-90
HYDROLOGY	<i>K.R.G.</i>	11-28-90			
PROJECT NO. C.O.A. 3845			MAP NO. J-23	SHEET 5	OF 26

JUNE 19, 1991

RECORD DRAWING



AS BUILT INFORMATION			
CONTRACTOR	STANDARD	MECHANICAL	
STANDARD	BY C.O.A. / G.A.	DATE 11-28-91	
INSPECTOR'S	FIELD	DATE 11-28-91	
VERIFICATION	BY U.I.F.	DATE 11-28-91	
MICRO-FILM INFORMATION			
RECORDED BY	NO.	DATE	

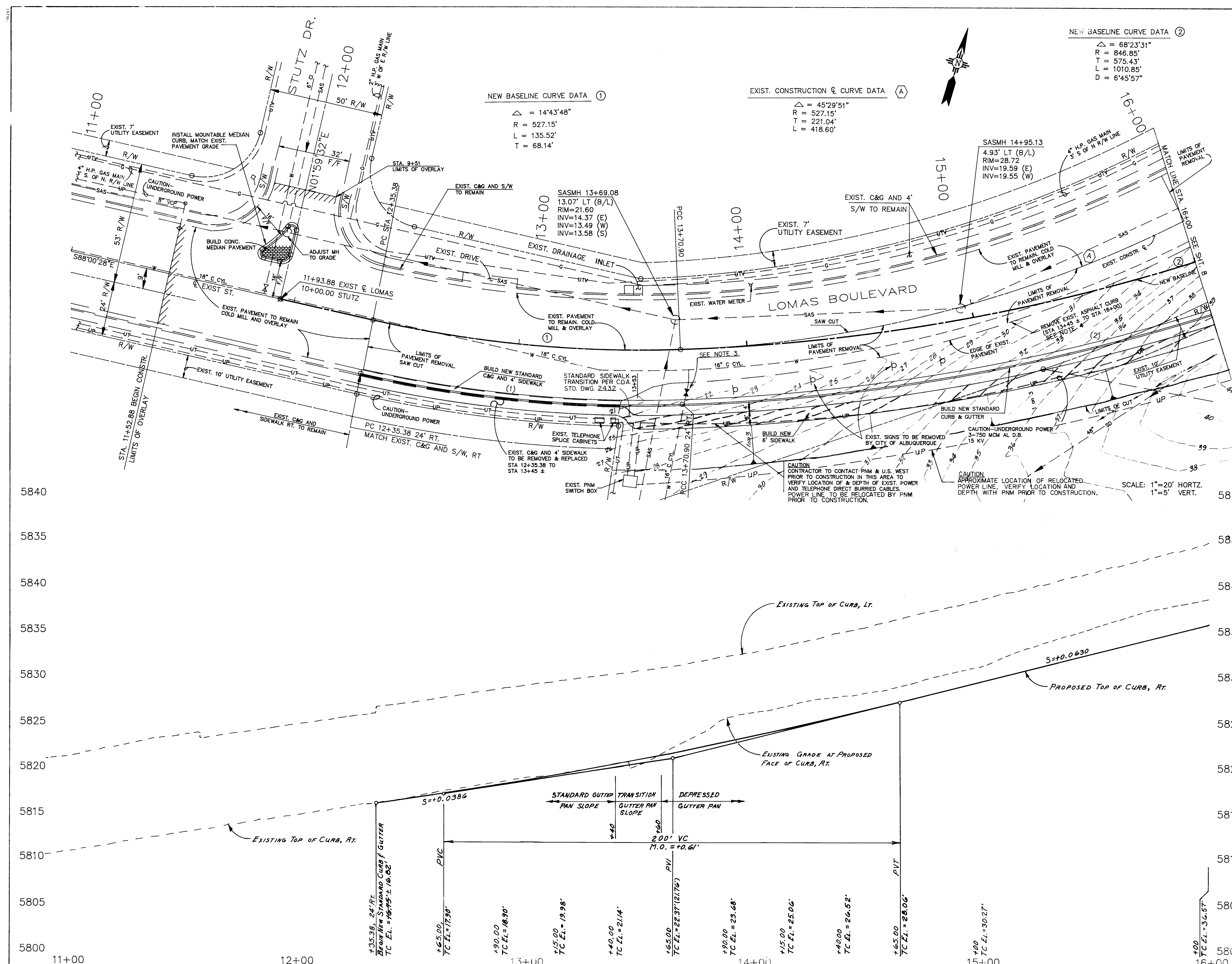
SURVEY INFORMATION			
FIELD NOTES	BY	DATE	
	NO.		

ENGINEER'S SEAL			

REMARKS			
NO.	DATE	BY	
DESIGNED BY R.L. DATE 11/28/90			
DRAWN BY J.G.L. DATE 11/28/90			
CHECKED BY R.L. DATE 11/28/90			

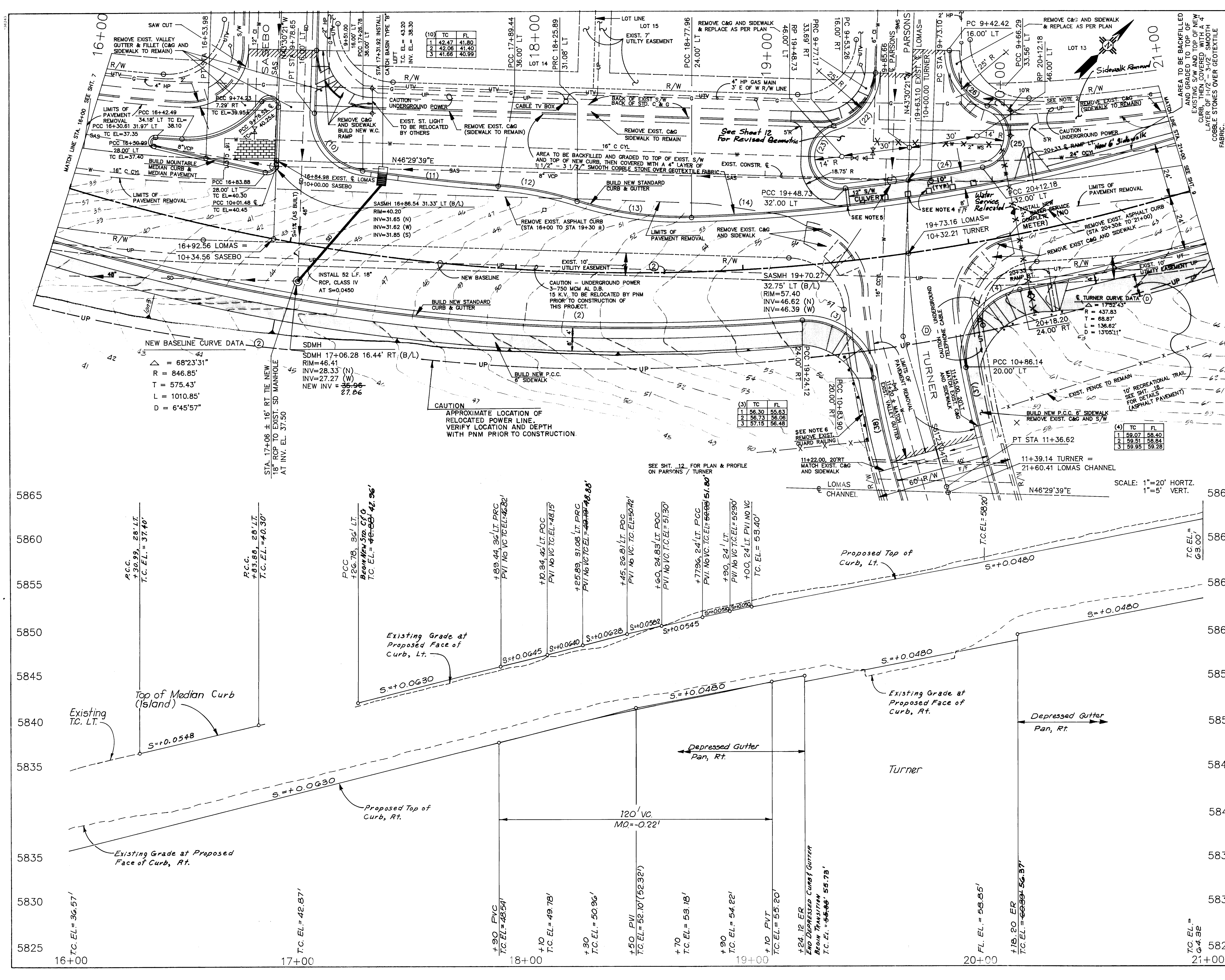
1 2 3 4 5 6 7 8 9 10 11 12
 216 384 506 911

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP							
TITLE: WIDENING OF LOMAS BOULEVARD ROADWAY PAVING SECTIONS							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRG CHAIRMAN	R. Kane	11-28-91	WATER	R.W. Kane	11-28-90		
TRANSPORTATION	R. Kane	11-28-90	WASTE WATER	R.W. Kane	11-28-90		
HYDROLOGY	R. Kane	11-28-90					
PROJECT NO.	COA PROJ NO. 3845	MAP NO. J-23	SHEET	6	OF	26	



- NOTES:**
- 1) SEE SHEET 3 FOR FACE OF CURB CURVE DATA.
 - 2) SEE SHEET 19 FOR PERMANENT STRIPING DETAILS.
 - 3) INSERT 16" BUTTERFLY VALVE IN EXISTING 16" DIA. CONCRETE CYLINDER WATER LINE. SEE SHEET 12. INSTALLATION TO BE PER CITY OF ALBUQUERQUE STANDARD DRAWING No. 235L.
 - 4) REMOVE ASPHALT CURB FROM STA. 13+45 TO STA. 31+75 FT. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK. COST TO BE INCLUDED IN PRICE BID FOR PAVEMENT REMOVAL.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE	BY	DATE	BY	NO.	FIELD NOTES	NO.	DATE
REVISIONS				REMARKS			
NO.	DATE	BY		NO.	DATE	BY	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP TITLE: WIDENING OF LOMAS BOULEVARD PAVING PLAN AND PROFILE							
APPROVAL	ENGINEER	DATE	APPROVAL	ENGINEER	DATE	APPROVAL	ENGINEER
DRC CHAIRMAN			WATER			WASTE WATER	
TRANSPORTATION							
HYDROLOGY							
PROJECT NO. C.O.A. 3845		MAP NO. K-23, J-23		SHEET 7 OF 26		DATE 11/28/90	



NOTES:

- 1) SEE SHEET 3 FOR FACE OF CURB CURVE DATA.
- 2) EXISTING LANDSCAPING TO BE ADJUSTED TO FIT NEW CONSTRUCTION. PAYMENT FOR THIS WORK TO BE MADE UNDER BID ITEM NO. 57. ADJUST LANDSCAPING AT NW CORNER OF LOMAS AND PARSONS.
- 3) SEE SHEET 19 FOR PERMANENT STRIPING DETAILS.
- 4) INSTALL 6"x6"x6" WOOD GUARD POST AT 10'-0" SPACING (6 EACH) REFLECTORIZED PANEL TO BE MOUNTED ON EACH FACE OF EACH POST.
- 5) BUILD 12" WIDE SIDEWALK CULVERT PER CITY OF ALBUQUERQUE STANDARD DRAWING NO. 2236.
- 6) REMOVE AND RETURN EXISTING GUARD RAILING MATERIALS TO CITY OF ALBUQUERQUE PINE YARDS.

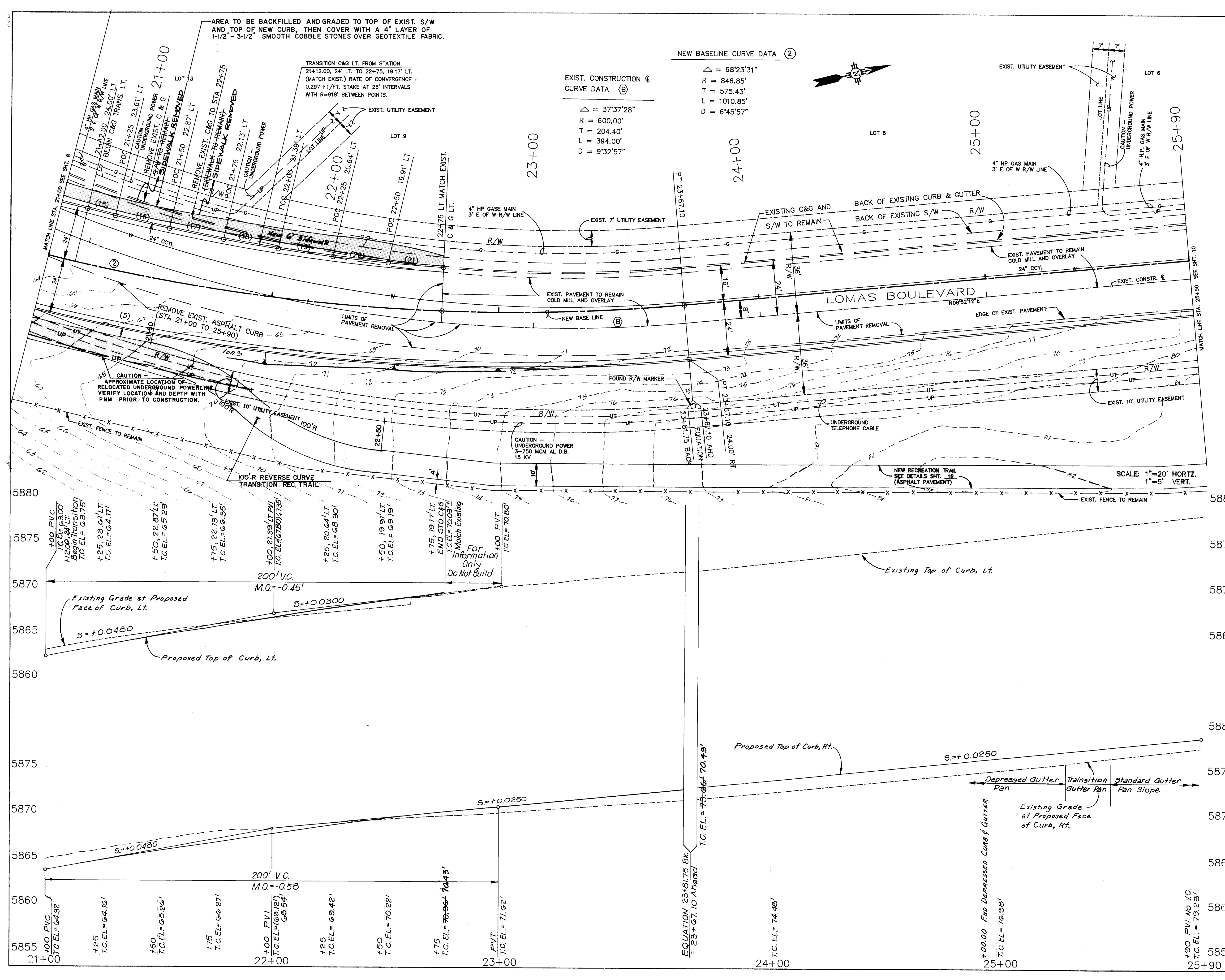
AS BUILT INFORMATION		BENCH MARKS	SURVEY INFORMATION	ENGINEER'S SEAL
DATE	BY			

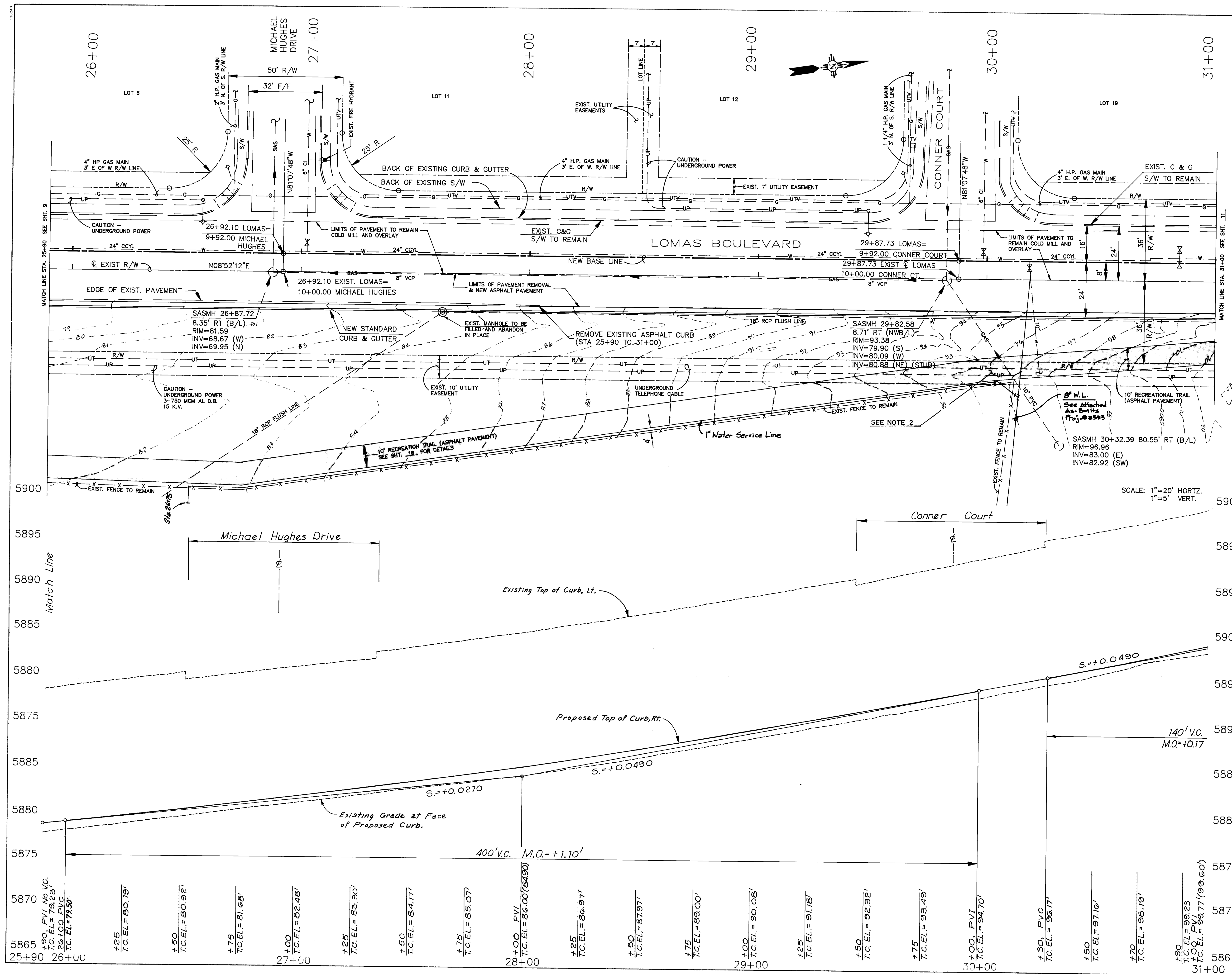
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **WIDENING OF LOMAS BOULEVARD
PAVING PLAN AND PROFILE**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN			WATER	R.W. Kane	11-28-90
TRANSPORTATION			WASTE WATER	R.W. Kane	11-28-90
HYDROLOGY			PARKS & REC.		11-28-90

PROJECT NO. **C.O.A. 3845** MAP NO. **J-23** SHEET **8** OF **26**





NOTES:

1) SEE SHEET 19 FOR PERMANENT STRIPING DETAILS.

2) CONTRACTOR TO TAKE SPECIAL CARE IN GRADING FOR NEW RECREATION TRAIL IN AREA WHERE UNDERGROUND UTILITIES CROSS IN ORDER TO AVOID DAMAGE TO EXISTING UNDERGROUND LINES. NO EXCAVATION SHALL BE PERFORMED IN THIS AREA.

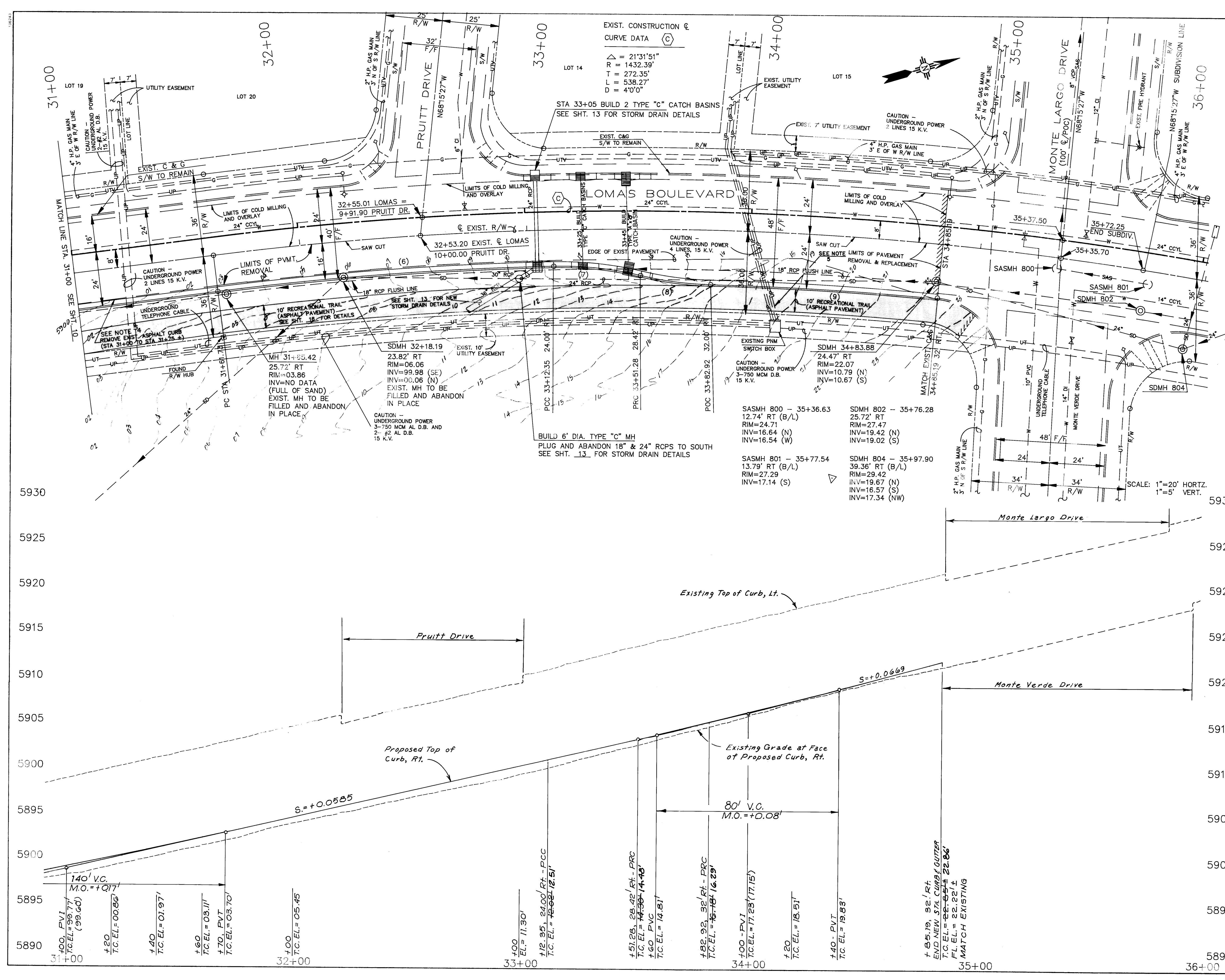
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
1	11/28/90	1	11/28/90	1	11/28/90	1	11/28/90
2	11/28/90	2	11/28/90	2	11/28/90	2	11/28/90
3	11/28/90	3	11/28/90	3	11/28/90	3	11/28/90
4	11/28/90	4	11/28/90	4	11/28/90	4	11/28/90
5	11/28/90	5	11/28/90	5	11/28/90	5	11/28/90
6	11/28/90	6	11/28/90	6	11/28/90	6	11/28/90
7	11/28/90	7	11/28/90	7	11/28/90	7	11/28/90
8	11/28/90	8	11/28/90	8	11/28/90	8	11/28/90
9	11/28/90	9	11/28/90	9	11/28/90	9	11/28/90
10	11/28/90	10	11/28/90	10	11/28/90	10	11/28/90
11	11/28/90	11	11/28/90	11	11/28/90	11	11/28/90
12	11/28/90	12	11/28/90	12	11/28/90	12	11/28/90

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE
WIDENING OF LOMAS BOULEVARD
PAVING PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	REVISIONS
DR. CHAIRMAN	11/28/90	11/28/90	11/28/90
TRANSPORTATION	11/28/90	11/28/90	11/28/90
HYDROLOGY	11/28/90	11/28/90	11/28/90

PROJECT NO. **C.O.A. 3845** MAP NO. **J-23** SHEET **10** OF **26**



NOTES:

- 1) SEE SHEET 3 FOR FACE OF CURB CURVE DATA.
- 2) SEE SHEET 13 FOR STORM DRAIN IMPROVEMENTS DETAILS.
- 3) SEE SHEET 19 FOR PERMANENT STRIPING DETAILS.
- 4) REMOVE EXIST. ASPHALT CURB FROM STA. 13+45 TO STA. 31+75 RT. NO DIRECT PAYMENT WILL BE MADE FOR THIS WORK. COST TO BE INCLUDED IN PRICE BID FOR PAVEMENT REMOVAL.
- 5) CONTRACTOR TO TAKE SPECIAL CARE IN GRADING FOR NEW RECREATION TRAIL IN AREA WHERE UNDERGROUND UTILITIES CROSS IN ORDER TO AVOID DAMAGE TO EXISTING UNDERGROUND LINES. NO EXCAVATION SHALL BE PERFORMED IN THIS AREA.

AS BUILT INFORMATION

DATE	11/28/90
BY	RL
CHECKED BY	RL
DATE	11/28/90

ENGINEER'S SEAL

[Signature]

REVISIONS

NO.	DATE	REMARKS
1	11/28/90	DESIGN

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

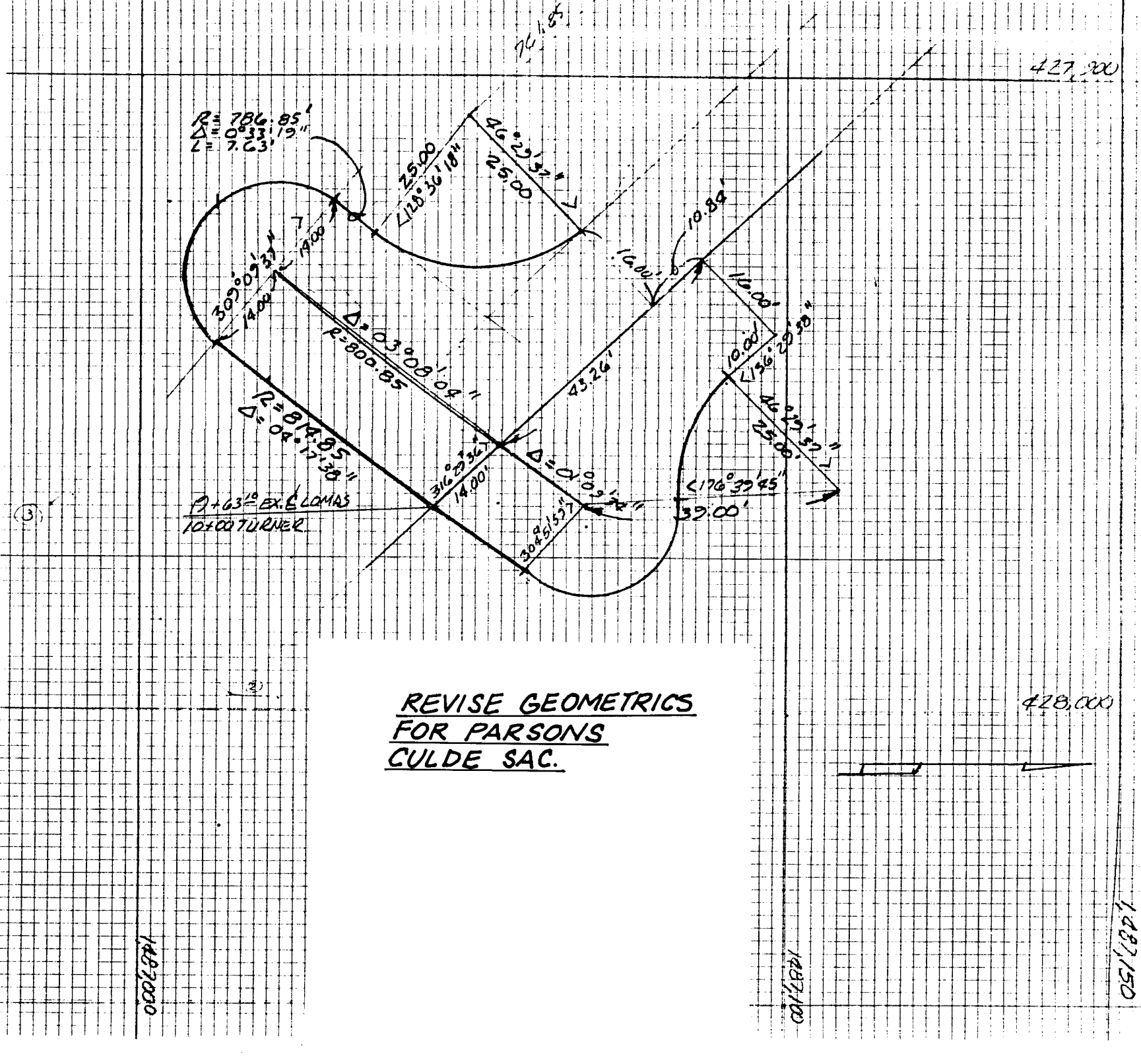
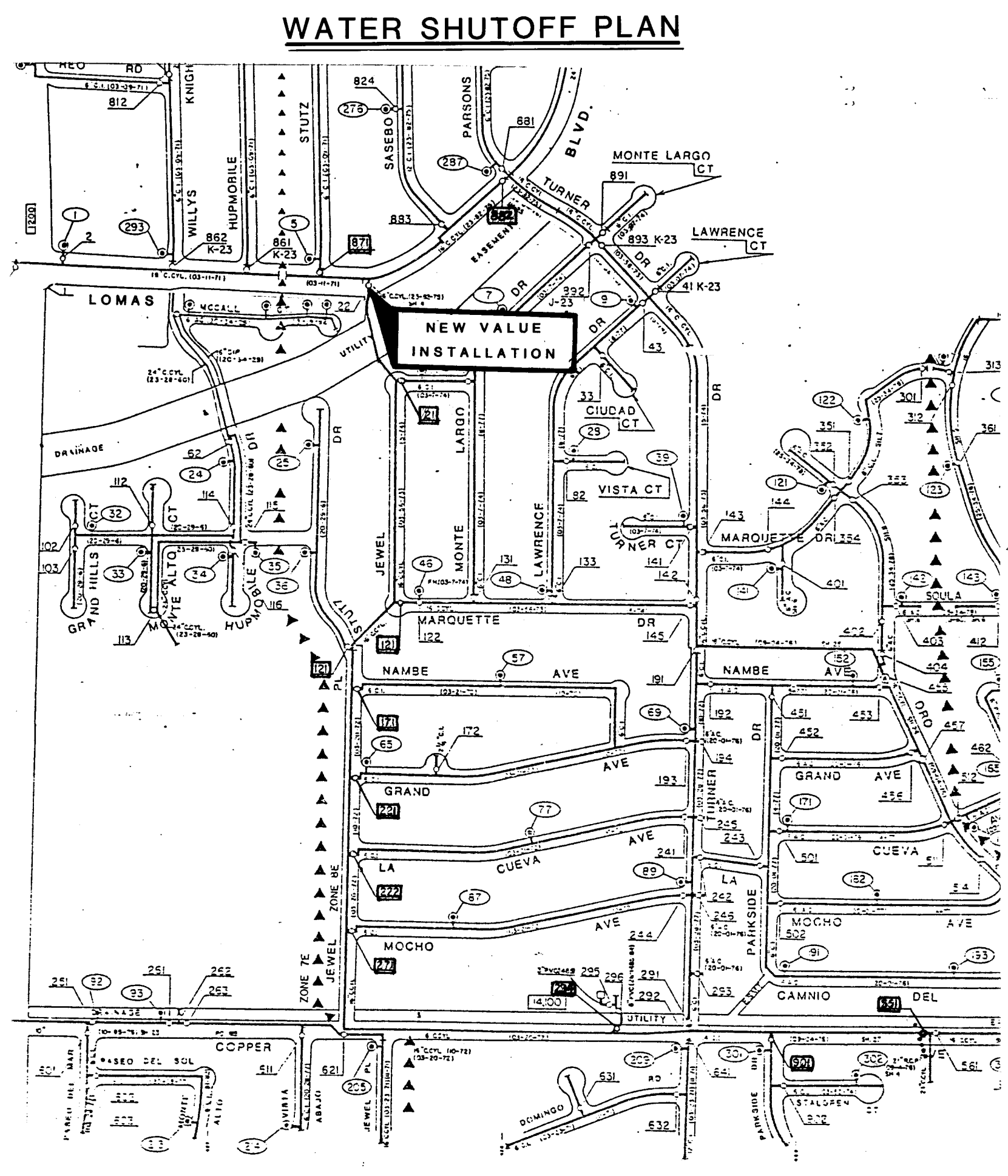
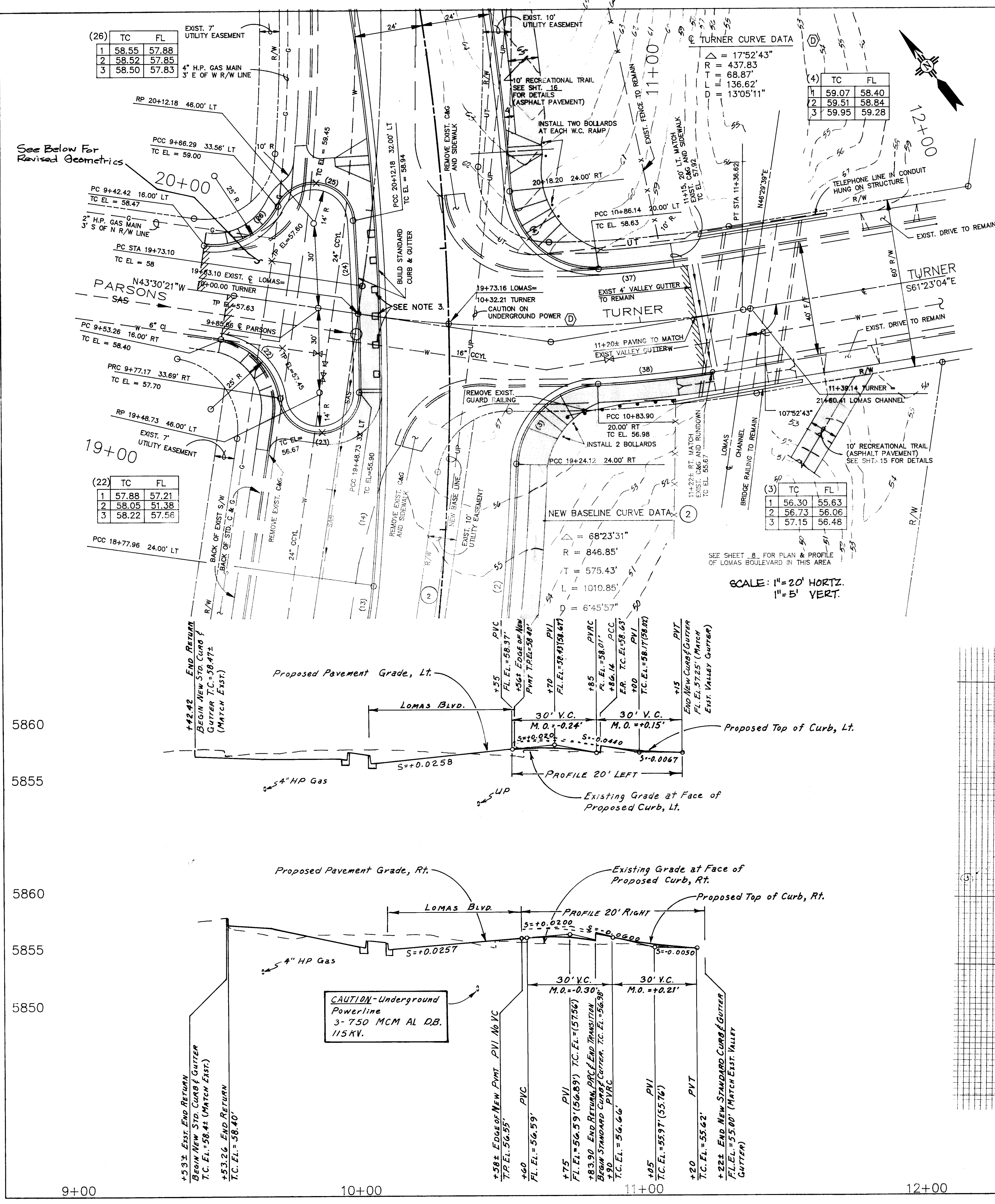
TITLE
WIDENING OF LOMAS BOULEVARD
PAVING PLAN AND PROFILE

APPROVALS	ENGINEER	DATE	11/28/90
DRG. CHAIRMAN	TRANSPORTATION	DATE	11/28/90
HYDROLOGY	WASTE WATER	DATE	11/28/90
	PARKS & REC.	DATE	11/28/90

PROJECT NO. C.O.A. 3845

MAP NO. J-23

SHEET II **OF** 26



NOTES:

1) 1) SEE SHEET 3 FOR FACE OF CURB CURVE DATA.

WATER SHUT OFF PLAN
WORK TO BE PERFORMED

Installation of 16" Butterfly Valve on existing 16" concrete cylinder line located on South leg of connection between Stutz and Sasebo in Lomas Boulevard. The valve shown and designated as valve 22 on map K-32N was removed years ago according to water utilities. The installation of the new valve in this project will replace it.

SHUT OFF PLAN

1. In order to isolate the valve installation point shut off the following values:

- 882, J235, Lomas Blvd.
- 883, J235, Sasebo St.
- 871, J235, Stutz Dr.
- 21, K23N, Jewel Dr.
- 121, K23N, Marquette Dr.
- 121, K23N, Stutz Dr.
- 171, K23N, Nambe Ave.
- 221, K23N, Grand Ave.
- 222, K23N, Cueva Ave.
- 271, K23N, Mocho Ave.
- 274, K23N, Copper
- 551, K23N, Copper
- 901, K23N, Parkside Dr.

2. Dewater system in order to make valve installation.

3. Install 6"x6"x6' Wood Guard Posts at 10'-0" Spacing (6 Each). Reflectorized Panel to be mounted on each face of each post.

REVISIONS

NO.	DATE	REMARKS	BY
1	11/28/90	DESIGN	RL
2	11/28/90	REVISION	RL

PROJECT NO. C.O.A. 3845 **MAP NO. J-23** **SHEET 12 OF 26**

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE **WIDENING OF LOMAS BOULEVARD**
PAVING PLAN AND PROFILE

APPROVALS **ENGINEER** **DATE** **APPROVED** **DATE**

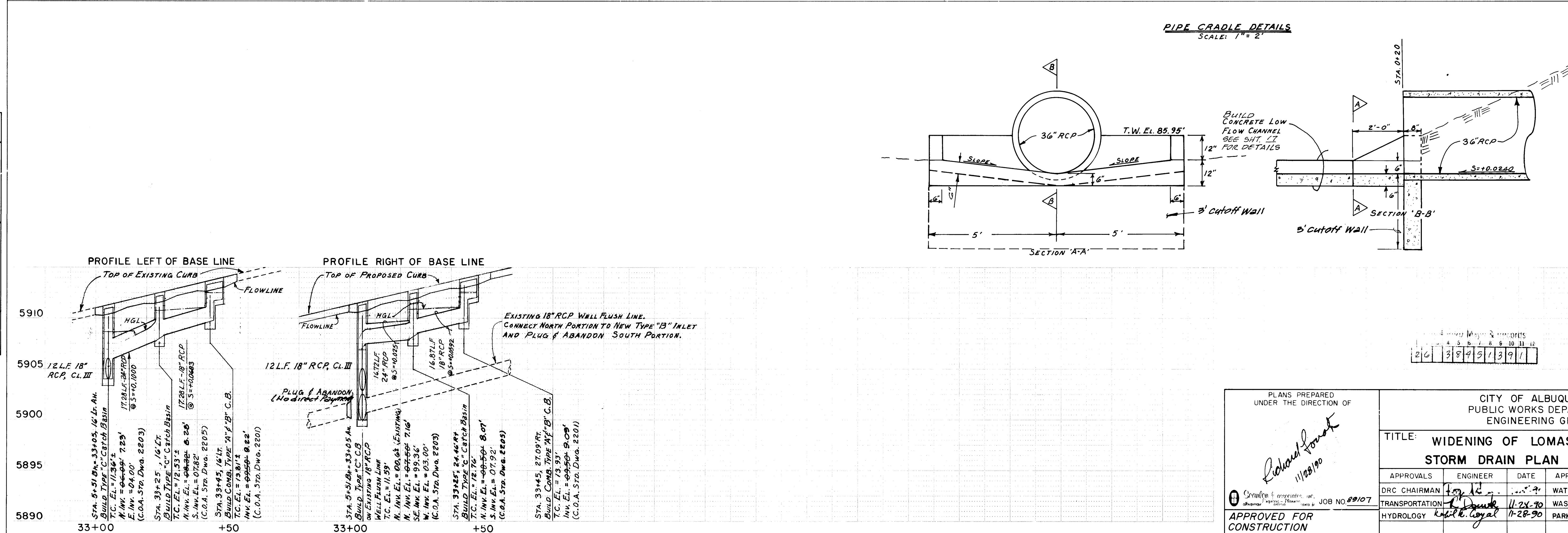
DR. CHAIRMAN **11-28-90** **WATER** **R.W. Kane 11-28-90**

TRANSPORTATION **11-28-90** **WASTE WATER** **R.W. Kane 11-28-90**

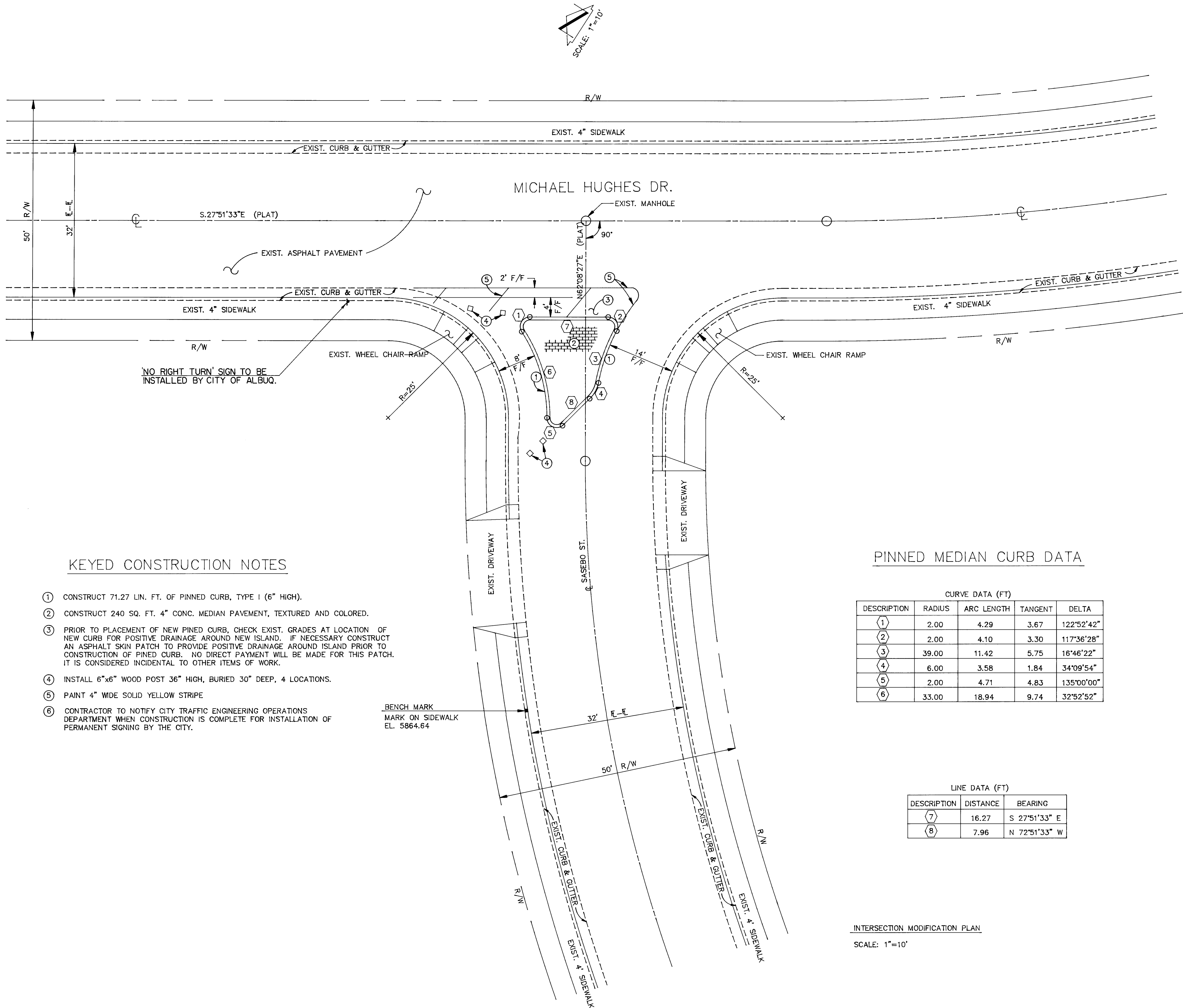
HYDROLOGY **11-28-90** **PARKS & REC.** **11-28-90**

PROJECT NO. C.O.A. 3845 **MAP NO. J-23** **SHEET 12 OF 26**

JUNE 13, 1991 **RECORD DRAWING**

[illegible][illegible]

Time 1:25:43
Drawing File: MIC-HUG
Directory: C:\CADD\Library



KEYED CONSTRUCTION NOTES

- 1 CONSTRUCT 71.27 LIN. FT. OF PINNED CURB, TYPE I (6" HIGH).
- 2 CONSTRUCT 240 SQ. FT. 4" CONC. MEDIAN PAVEMENT, TEXTURED AND COLORED.
- 3 PRIOR TO PLACEMENT OF NEW PINNED CURB, CHECK EXIST. GRADES AT LOCATION OF NEW CURB FOR POSITIVE DRAINAGE AROUND NEW ISLAND. IF NECESSARY CONSTRUCT AN ASPHALT SKIN PATCH TO PROVIDE POSITIVE DRAINAGE AROUND ISLAND PRIOR TO CONSTRUCTION OF PINNED CURB. NO DIRECT PAYMENT WILL BE MADE FOR THIS PATCH. IT IS CONSIDERED INCIDENTAL TO OTHER ITEMS OF WORK.
- 4 INSTALL 6"x6" WOOD POST 36" HIGH, BURIED 30" DEEP, 4 LOCATIONS.
- 5 PAINT 4" WIDE SOLID YELLOW STRIPE
- 6 CONTRACTOR TO NOTIFY CITY TRAFFIC ENGINEERING OPERATIONS DEPARTMENT WHEN CONSTRUCTION IS COMPLETE FOR INSTALLATION OF PERMANENT SIGNING BY THE CITY.

BENCH MARK
MARK ON SIDEWALK
EL. 5864.64

PINNED MEDIAN CURB DATA

CURVE DATA (FT)				
DESCRIPTION	RADIUS	ARC LENGTH	TANGENT	DELTA
①	2.00	4.29	3.67	122°52'42"
②	2.00	4.10	3.30	117°36'28"
③	39.00	11.42	5.75	16°46'22"
④	6.00	3.58	1.84	34°09'54"
⑤	2.00	4.71	4.83	135°00'00"
⑥	33.00	18.94	9.74	32°52'52"

LINE DATA (FT)		
DESCRIPTION	DISTANCE	BEARING
⑦	16.27	S 27°51'33" E
⑧	7.96	N 72°51'33" W

INTERSECTION MODIFICATION PLAN

SCALE: 1"=10'

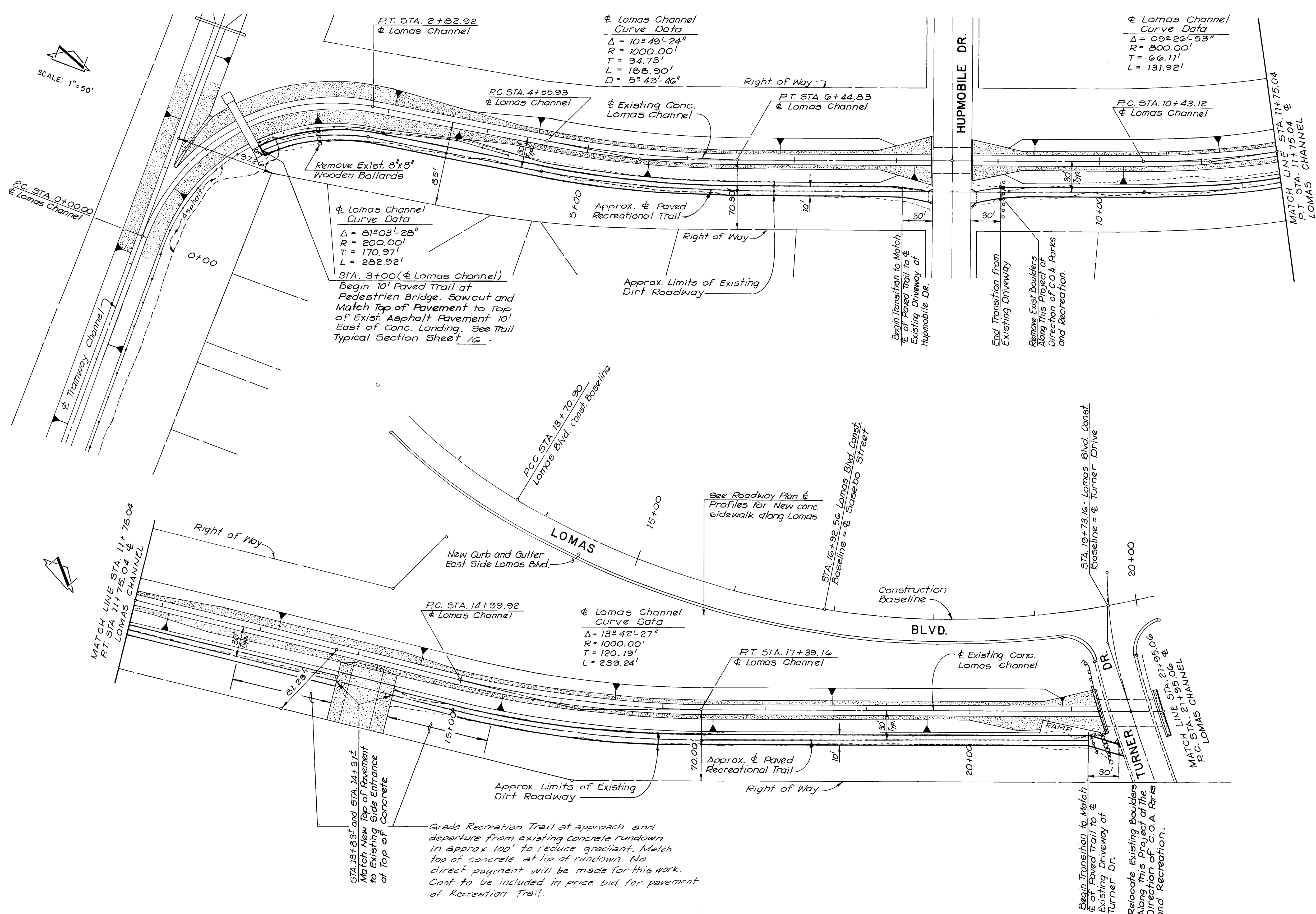
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR SIGNATURE	MECHANICAL			FIELD NOTES			
WORK STATED BY C.O.A. / G.A.	DATE 6-3-91			BY	DATE		
DESIGNED BY	DATE 6-20-91			NO.			
FIELD SUPERVISOR BY L.I.F.	DATE 6-3-91						
DRAWINGS	DATE						
CORRECTED BY SCANDLONE ASSOC.	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

11/28/90
26 3845 114911

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: INTERSECTION MODIFICATIONS MICHAEL HUGHES DR. / SASEBO ST.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. W. Korne</i>	11-28-90	WATER	<i>R. W. Korne</i>	11-28-90
TRANSPORTATION	<i>R. W. Korne</i>	11-28-90	WASTE WATER	<i>R. W. Korne</i>	11-28-90
HYDROLOGY	<i>K. K. G.</i>	11-28-90	PARKS & REC.	<i>N/A</i>	
PROJECT NO.	C.O.A. 3845	MAP NO.	J-23	SHEET	14 OF 26

JUNE 19, 1991

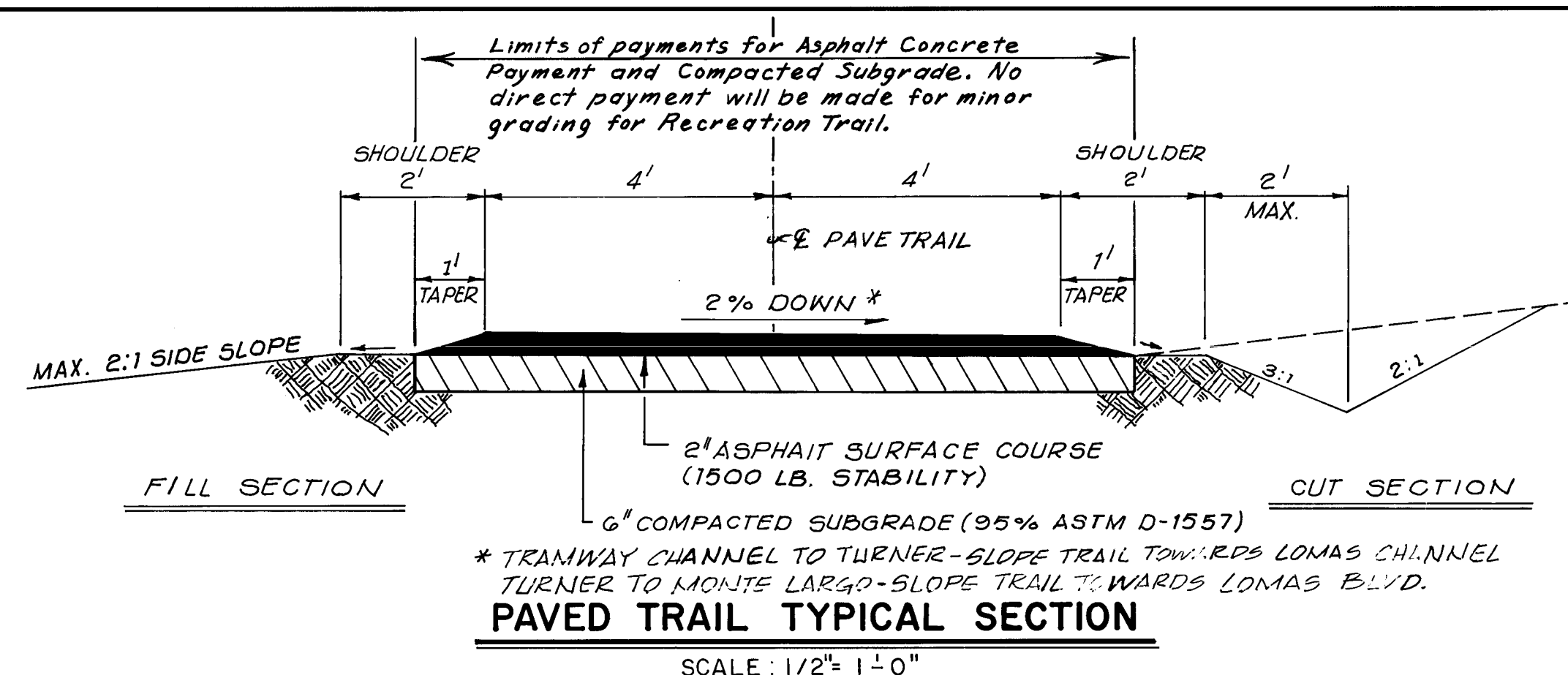
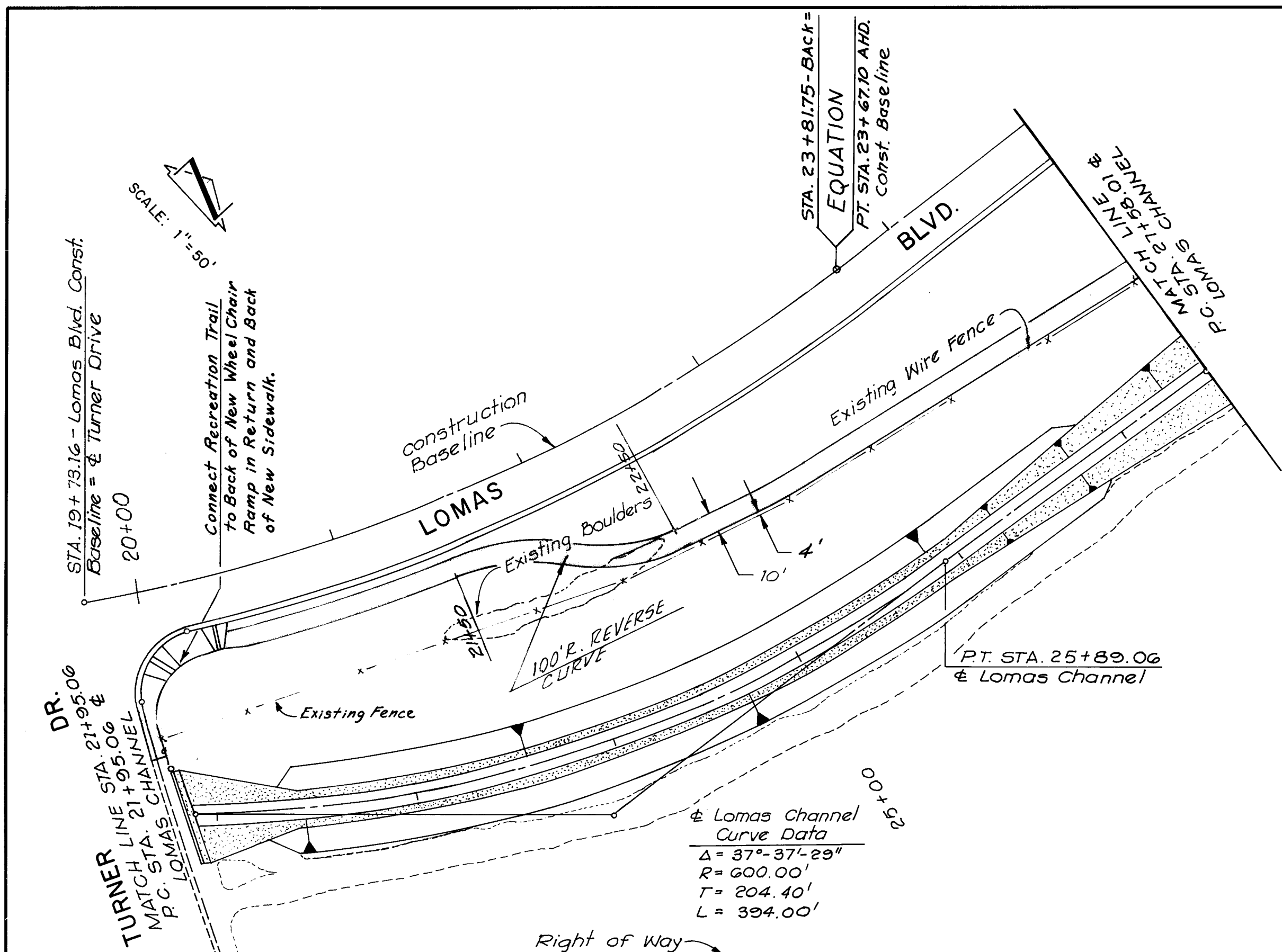
RECORD DRAWING



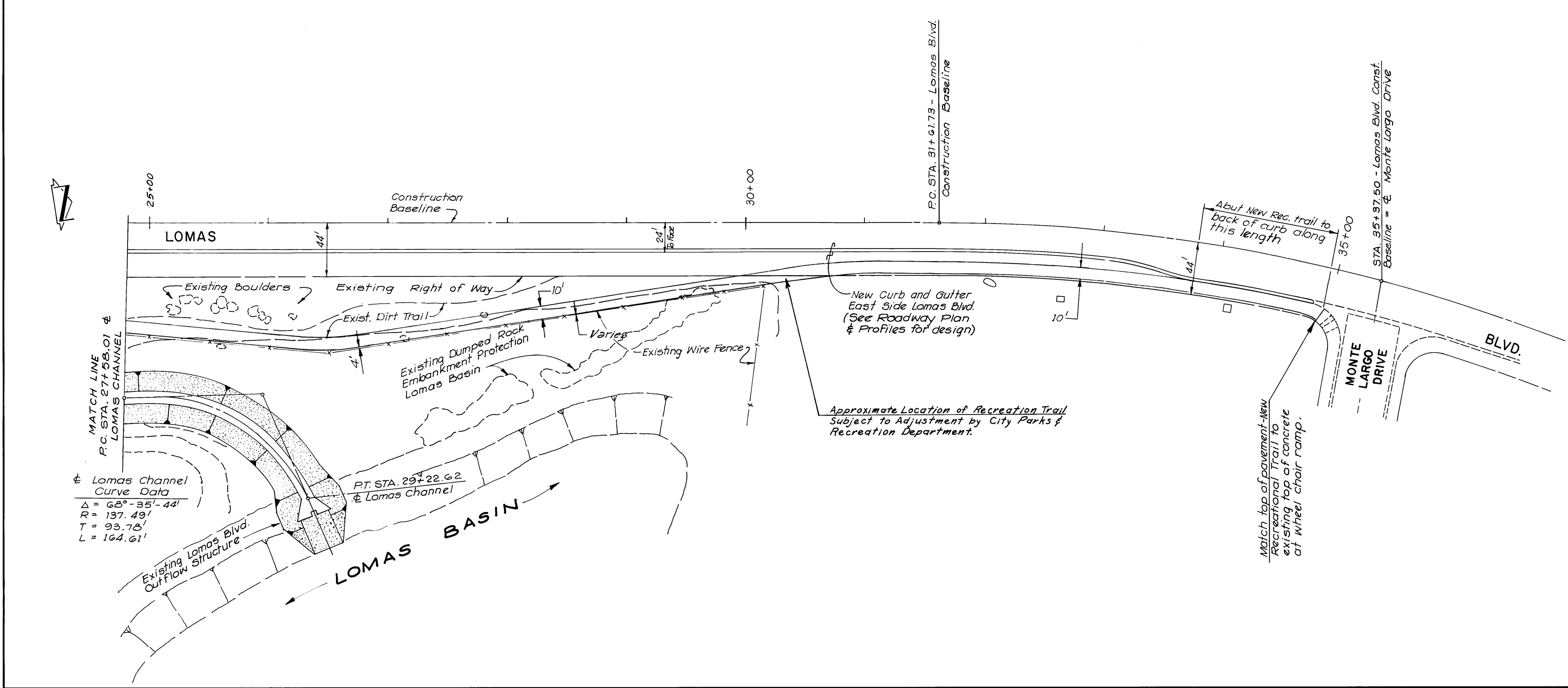
SCALE: 1"=50'

26 3845 1591

ENGINEER'S SEAL			SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION				
Handwritten signature and date 11/28/90			NO.	FIELD NOTES BY	DATE	ACG 8-123 El. 5804.785, being a square [] chiseled on top of the concrete curb at NW/4 curb return at the junction of Lomas Blvd. and Hupmobile Dr. NE in the North west quadrant of the junction.	CONTRACTOR ELIANDACE MECHANICAL	DATE 11-28-90			
DESIGN			NO.	DATE	BY	REVISIONS	MICRO-FILM INFORMATION				
DESIGN			REVISIONS		DATE		RECORDED BY				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				
DESIGN			DATE		BY		NO.				

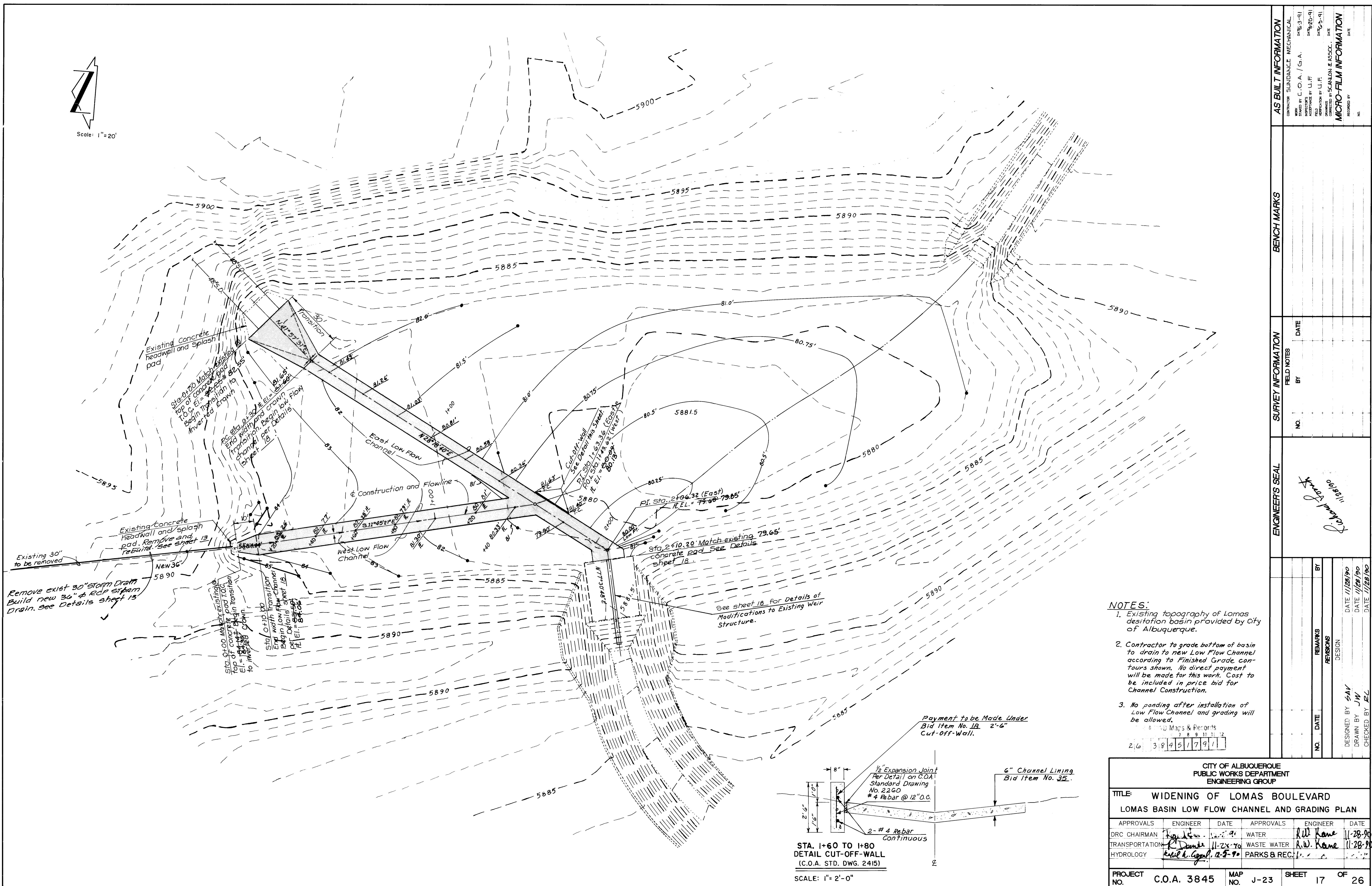


- NOTES:**
- Existing boulders/rocks along the proposed recreational trail alignment - between Turner Drive and Monte Largo Drive, may require relocation and placement along the trail for incorporation into future landscaping. Relocation of the boulders and grading of the trail (full length) will be per the direction of the City Parks and Recreation Department during construction. The alignment of the Recreation Trail between Turner and Monte Largo is shown approximately. Contractor shall contact Parks and Recreation, Diane Scena - 857-8640 to verify final alignment of the trail prior to construction. No direct payment will be made for adjustment of existing landscaping boulders/rocks; cost to be included in price bid for paving of recreation trail.
 - No direct payment will be made for grading of Recreation Trail or area adjacent to it. Cost to be included in Price bid for paving of Recreation Trail.



AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	SUNDANCE MECHANICAL	DATE	04/23/91	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
STAKED BY	C.O.A. / G.A.	DATE	04/23/91	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
FIELD	ACCEPTANCE BY U.T.F.	DATE	04/23/91	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
DRAWINGS	DATE	04/23/91	NO.	DATE	BY	DATE	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
CORRECTED BY	SCANDLONE ASSOC.	DATE	04/23/91	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE
RECORDED BY	DATE	04/23/91	NO.	DATE	BY	DATE	DATE	NO.	DATE	BY	DATE	NO.	DATE	BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: WIDENING OF LOMAS BOULEVARD RECREATIONAL TRAIL PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG. CHAIRMAN	R. R. G.	11-28-90	WATER
TRANSPORTATION	R. R. G.	11-28-90	WASTE WATER
HYDROLOGY	R. R. G.	11-28-90	PARKS & REC.
DESIGNED BY	SAV	DATE	11/28/90
DRAWN BY	JW	DATE	11/28/90
CHECKED BY	EL	DATE	11/28/90
PROJECT NO.	C.O.A. 3845	MAP NO.	J-23
SHEET	16	OF	26

[illegible]

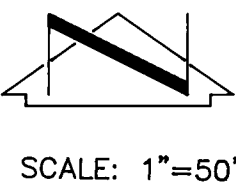
NOTES:

1. Existing topography of Lomas desertification basin provided by City of Albuquerque.
2. Contractor to grade bottom of basin to drain to new Low Flow Channel according to Finished Grade contours shown. No direct payment will be made for this work. Cost to be included in price bid for Channel Construction.
3. No ponding after installation of Low Flow Channel and grading will be allowed.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP						
TITLE: WIDENING OF LOMAS BOULEVARD LOMAS BASIN LOW FLOW CHANNEL AND GRADING PLAN						
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	
DRC CHAIRMAN	<i>[Signature]</i>	<i>12-2-90</i>	WATER	<i>R.W. Kane</i>	<i>11-28-90</i>	
TRANSPORTATION	<i>R. Danner</i>	<i>11-25-90</i>	WASTE WATER	<i>R.W. Kane</i>	<i>11-28-90</i>	
HYDROLOGY	<i>Karl K. Goggin</i>	<i>12-5-90</i>	PARKS & REC.	<i>[Signature]</i>	<i>[Signature]</i>	
PROJECT NO.	C.O.A. 3845		MAP NO.	J-23	SHEET	17 OF 26

PHASE I NOTES

- Build curb and gutter and sidewalk south easterly side of street leaving minimum of 24' of street width for 2 lanes of traffic. (one lane in each direction).
- Obliterate existing striping on north westerly side and place temporary striping SOLID DOUBLE YELLOW (MUTCD 3B-1) delineating 2 - 12 foot lanes.
- From sta. 12+35.38 to sta. 16+48.98, vertical panels (double faced) with Type C lights will be used in addition to the solid double yellow striping.
- South bound taper and tangent barricades to be placed at 30' intervals.
- Build inlets and begin storm drain construction at sta. 17+31.92 RT, sta. 33+05 RT, sta. 33+25 RT and sta. 33+45 RT.
- Cover existing R2-1's (30 mph) and install 25 mph R2-1's.
- From sta. 9+68.88 to sta. 16+48.98, all barricades to be at 30' intervals. Sta. 16+48.98 to sta. 34+95.19 all barricades to be at 35' intervals.



SCALE: 1"=50'

NEW BASELINE CURVE DATA ②

$\Delta = 68^{\circ}23'31''$
 $R = 846.85'$
 $T = 575.43'$
 $L = 1010.85'$
 $D = 6^{\circ}45'57''$

NEW BASELINE CURVE DATA ①

$\Delta = 14^{\circ}43'48''$
 $R = 527.15'$
 $L = 135.52'$
 $T = 68.14'$
 $D = 10^{\circ}52'08''$

EXIST. CONSTRUCTION @ CURVE DATA ①
 $\Delta = 45^{\circ}29'51''$
 $R = 527.15'$
 $T = 221.04'$
 $L = 418.60'$
 $D = 10^{\circ}52'08''$

EXIST. CONSTRUCTION @ CURVE DATA ②
 $\Delta = 37^{\circ}37'28''$
 $R = 600.00'$
 $T = 204.40'$
 $L = 394.00'$
 $D = 9^{\circ}32'57''$

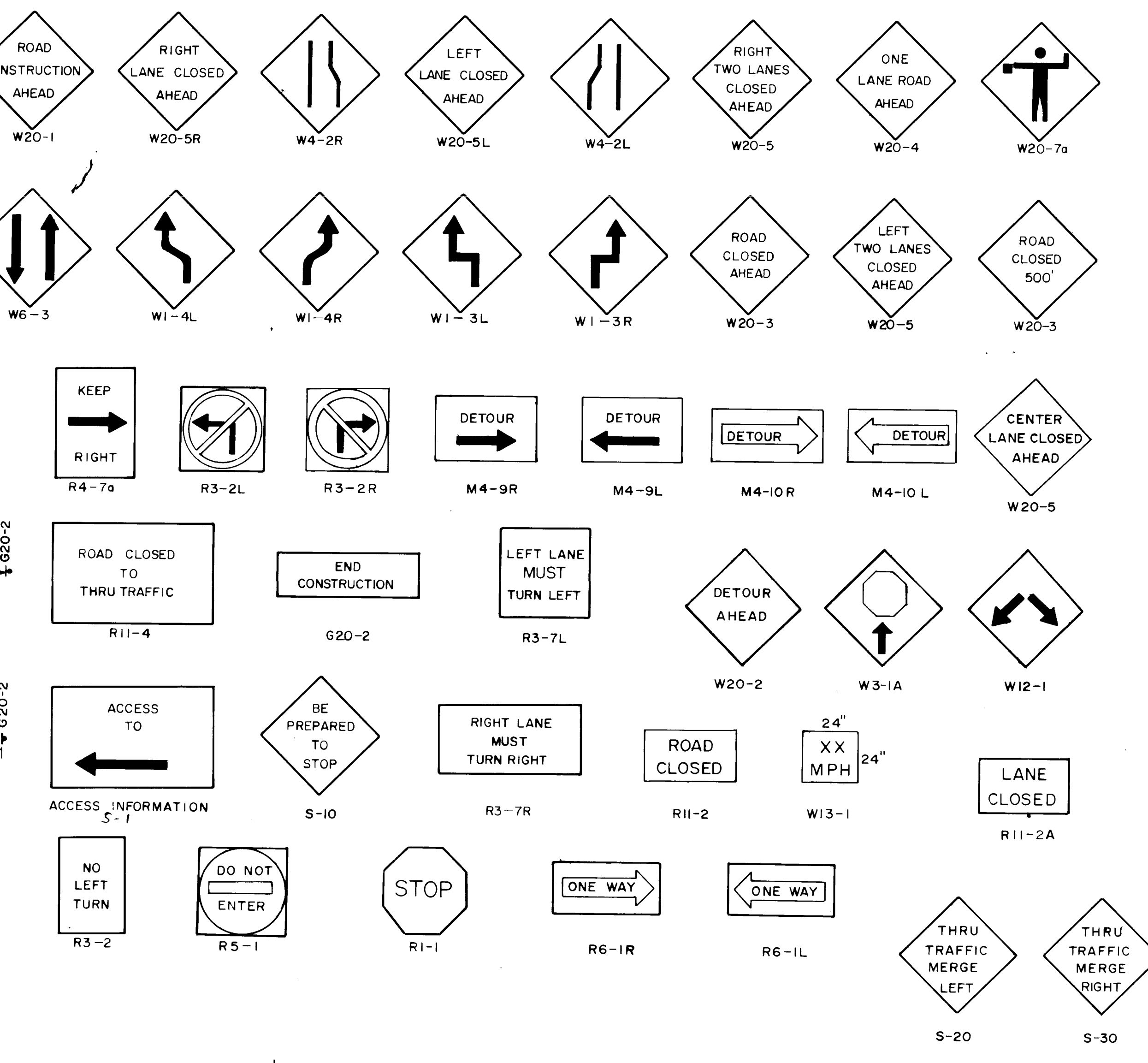
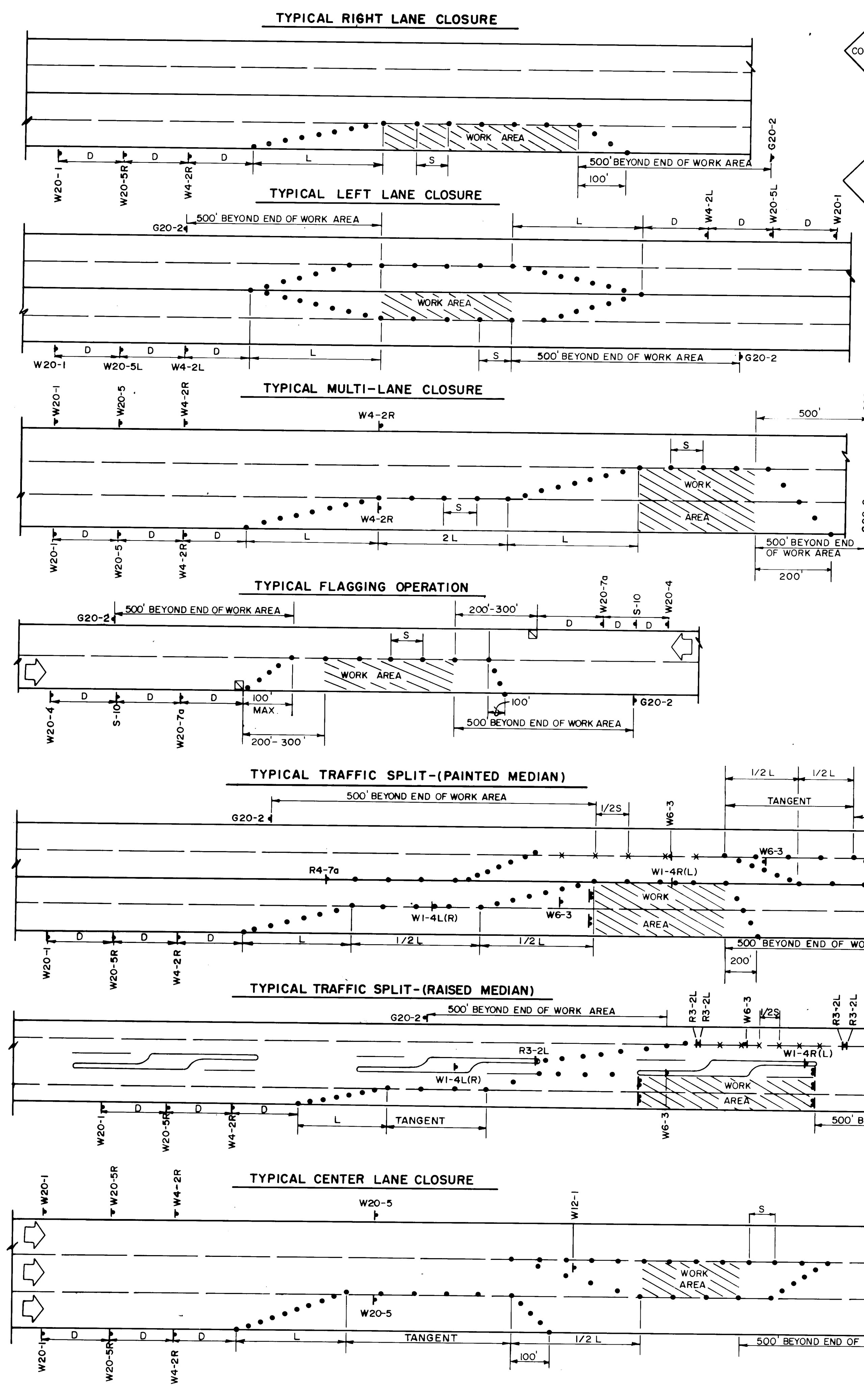
TURNER CURVE DATA ③
 $\Delta = 17^{\circ}52'43''$
 $R = 437.83'$
 $T = 68.87'$
 $L = 136.62'$
 $D = 13^{\circ}05'11''$

LEGEND

- TYPE "B" BARREL WITH TYPE "C" STEADY BURN LIGHT
- × VERTICAL PANEL (DOUBLE FACED) WITH TYPE "C" STEADY BURN LIGHT
- 8'-TYPE III BARRICADES WITH TYPE "A" FLASHING LIGHT
- 4" SOLID YELLOW STRIPE
- WORK AREA

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: WIDENING OF LOMAS BOULEVARD CONSTRUCTION TRAFFIC CONTROL PLAN - PHASE I					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	11/28/90	WATER	<i>R.W. Kane</i>	11/28/90
TRANSPORTATION	<i>[Signature]</i>	11/28/90	WASTE WATER	<i>R.W. Kane</i>	11/28/90
HYDROLOGY	<i>[Signature]</i>	11/28/90	PARKS & REC.	<i>N.A.</i>	
PROJECT NO.	C.O.A. 3845		MAP NO.	J-23	SHEET 20 OF 26

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	STANDARD MECHANICAL	DATE	11/28/90	NO.			
STANDARD BY	C.O.A. / G.A.	DATE	11/28/90	BY			
WORK	CHISELED ON TOP OF CURB AT WNW CURB RETURN	DATE	11/28/90	DATE	11/28/90		
FIELD	AT THE JUNCTION OF LOMAS BLVD. AND HUMPHREY	DATE	11/28/90	DESIGNED BY	EC		
DATE	11/28/90	DATE	11/28/90	DRAWN BY	JGL	REMARKS	
DATE	11/28/90	DATE	11/28/90	CHECKED BY	EC		
DATE	11/28/90	DATE	11/28/90	DATE	11/28/90		
DATE	11/28/90	DATE	11/28/90	DATE	11/28/90		



PHASE 4
COLD MILL PAVEMENT WHICH IS TO REMAIN AND OVERLAY.

PHASE 5
INSTALL PERMANENT STRIPING.

GENERAL NOTES

- CONTRACTOR SHALL ADHERE TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATION FOR CONSTRUCTION, 1986.
- CONTRACTOR SHALL MAINTAIN ACCESS TO EACH FACILITY, BUSINESS, AND RESIDENT AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA PER REQUEST OF THE TRAFFIC ENGINEER. EACH ACCESS SIGN SHALL HAVE WHITE 5-INCH LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO BID AND NOT PART OF CONTRACT.
- CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING PAVEMENT STRIPING THAT WOULD CONFLICT WITH EXISTING TRAFFIC PATTERNS. CONTRACTOR WILL BE RESPONSIBLE FOR TEMPORARY STRIPING.
- ALL FLASHING ARROW PANELS ARE TO BE 100% OPERATIONAL 24 HOURS A DAY FOR DURATION OF CONSTRUCTION. CONTRACTOR SHALL EMPLOY ARROW BOARDS THROUGHOUT THE CONSTRUCTION AREA FOR THE DURATION OF THE PROJECT.
- CONTRACTOR MUST COMPLY WITH SP3 MEDIA NOTIFICATION REQUIREMENTS.
- PRIOR TO OCCUPYING THE ROADWAY, CONTRACTOR SHALL NOTIFY WITHIN 24 HOURS: POLICE, FIRE DEPARTMENT, AND AMBULANCES.
- CONTRACTOR SHALL INSURE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY MAINTAINED, AND SET ACCORDING TO THE TRAFFIC CONTROL PLAN. CONTRACTOR SHALL INSURE THAT BARRICADE CONTRACTOR INSPECTS SITE TWICE DAILY AND ONCE DURING THE HOURS OF DARKNESS.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIOD OF CONSTRUCTION. ALL SUCH CHANNELIZATION SHALL BE ARRANGED TO PREVENT PEDESTRIANS FROM HAVING TO ENTER THE ROADWAY IN ORDER TO PASS AROUND THE WORK AREA.
- ALL SIGNS SHALL BE IN ACCORDANCE WITH MUTCD. (LATEST EDITION)

LEGEND			
	WORK AREA		
	TRAFFIC SIGN & QUANTITY (See this sheet for designation)		
	BARRICADE - TYPE I, TYPE II, OR BARRICADE - TYPE III		
	VERTICAL PANEL		
	WARNING SIGN		
	FLAGMAN POSITION		
	SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED OF THE STREET		
	TAPER LENGTH - SEE CHART BELOW		

NOTES			
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.			
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE.			
PHASES 4 & 5 TO BE PERFORMED USING CONSTRUCTION TRAFFIC CONTROL SHOWN ON THIS SHEET.			

MINIMUM TAPER REQUIREMENTS					
SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	105	115	125	25	6
30	150	165	180	30	7
35	205	225	245	35	8
40	270	295	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: WIDENING OF LOMAS BOULEVARD TYPICAL TRAFFIC CONTROL (REF. MUTCD.)			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. CHAIRMAN	<i>[Signature]</i>	12-2-91	WATER
TRANSPORTATION	<i>[Signature]</i>	11-24-90	WASTE WATER
HYDROLOGY	<i>[Signature]</i>	11-28-90	PARKS & REC.
CC	<i>[Signature]</i>	11-29-90	N/A
PROJECT NO.	C.O.A. 3845	MAP NO.	SHEET
			22 OF 26

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS

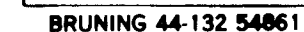


PLATE 3 CROSS SECTION - DOTTED
CHARLES BRUNING COMPANY
MADE IN U.S.A.

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
2	6		3	8	4	5	2	3	9	1	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

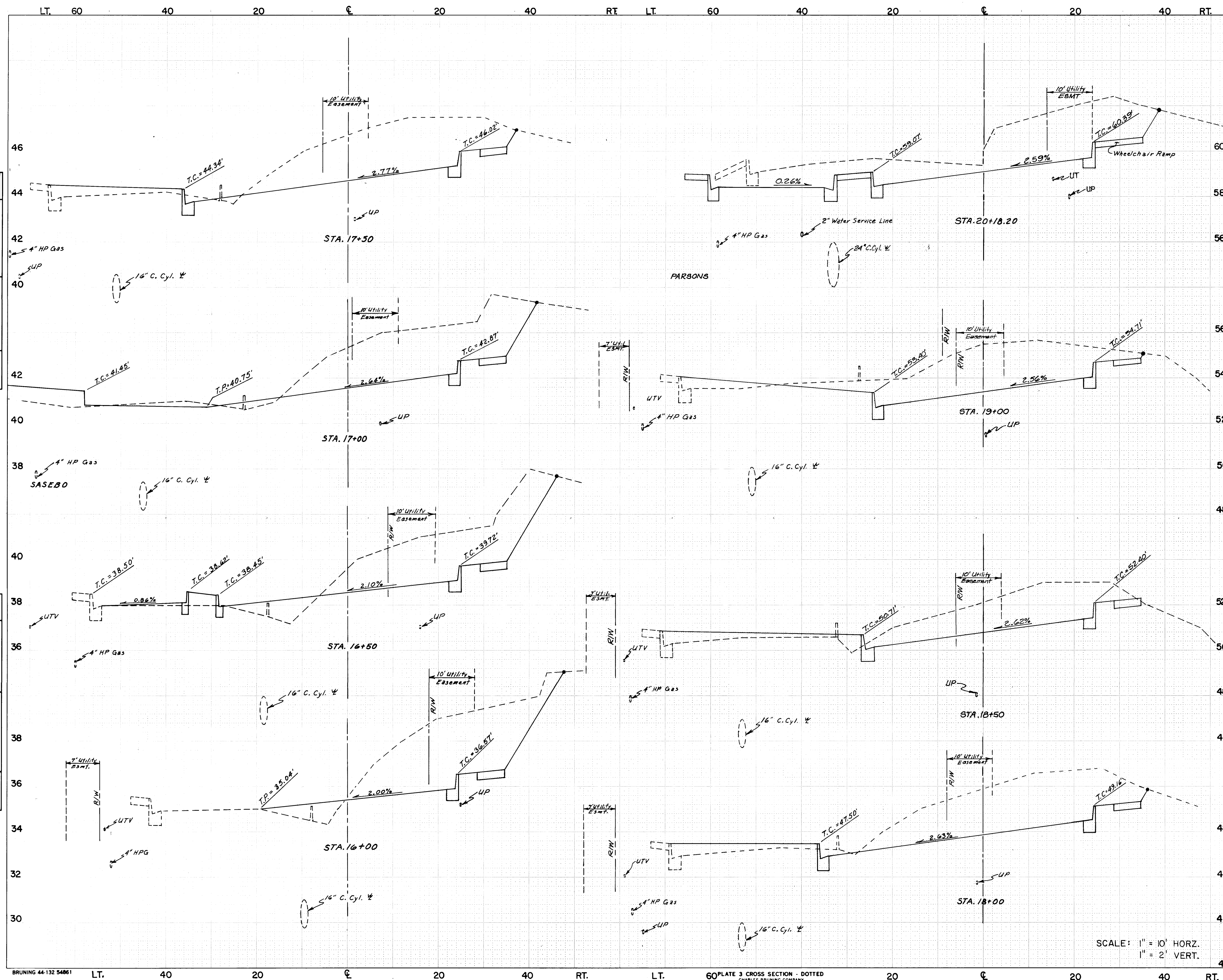
TITLE: WIDENING OF LOMAS BOULEVARD

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R. J. Kane	11-28-90	WATER	R. J. Kane	11-28-90
TRANSPORTATION	R. J. Kane	11-28-90	WASTE WATER	R. J. Kane	11-28-90
HYDROLOGY	K. R. G.	11-28-90	PARKS & REC.	H/A	

PROJECT NO. C.O.A. 3845	MAP NO. J-23	SHEET 23 OF 26
----------------------------	-----------------	----------------

ORIGINAL SURVEY	BY _____	DATE _____
NOTED		
PLOTTED		
TEMPLATE		
AREAS		
NO _____	AREAS CHECKED _____	

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS



SCALE: 1" = 10' HORZ
1" = 2' VERT

C of A PWD Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
2	6		3	8	4	5	2	4	9	1	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: WIDENING OF LOMAS BOULEVARD
CROSS SECTIONS - STA. 16+00 TO STA. 20+18.20

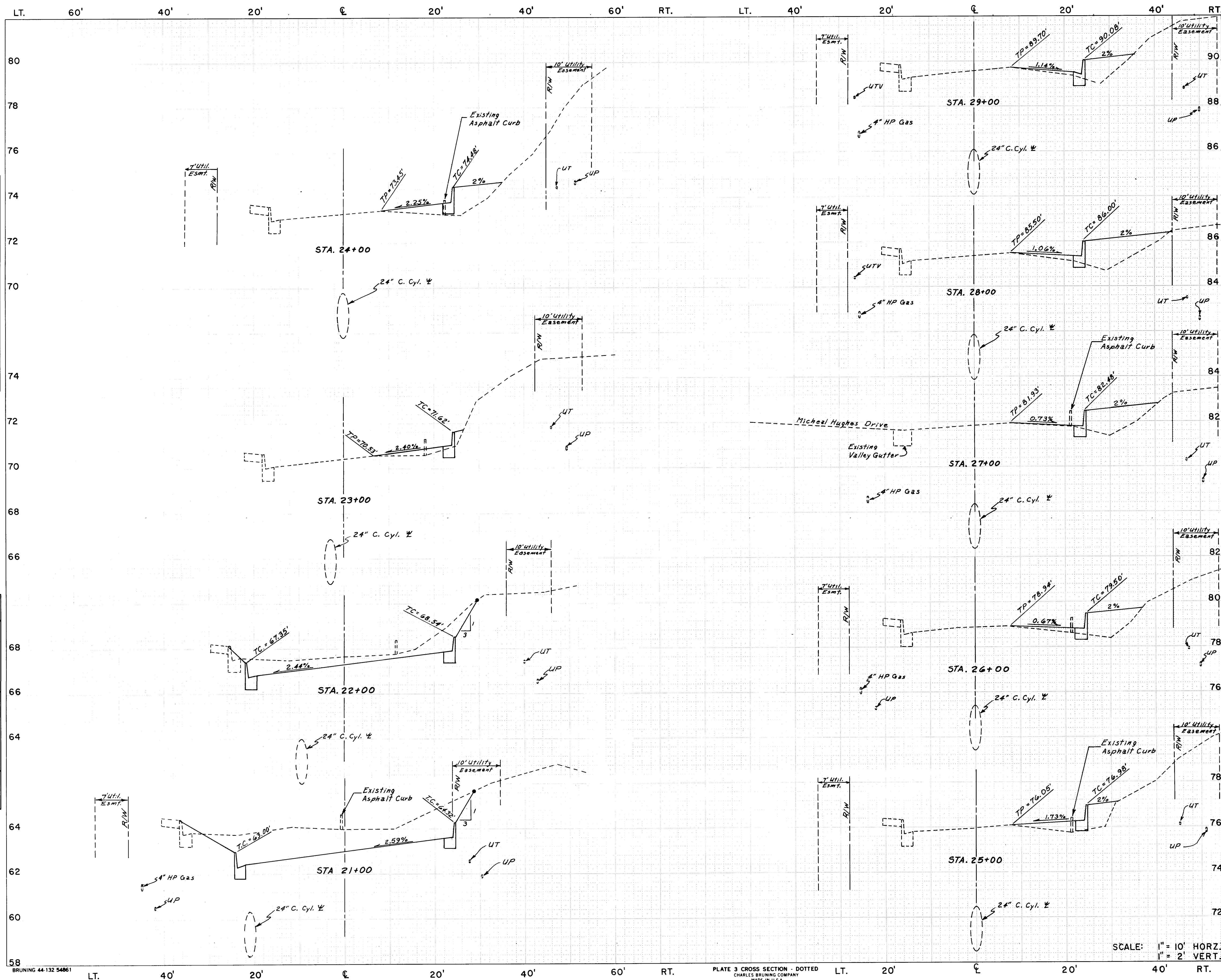
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. W. Kane</i>	<i>12-5-90</i>	WATER	<i>R. W. Kane</i>	<i>1-28-90</i>
TRANSPORTATION	<i>R. W. Kane</i>	<i>1-26-90</i>	WASTE WATER	<i>R. W. Kane</i>	<i>1-28-90</i>
HYDROLOGY	<i>K. K. G.</i>	<i>1-28-90</i>	PARKS & REC.	<i>N/A</i>	

PROJECT NO. C.O.A. 3845	MAP NO. J-23	SHEET 24 OF 26
----------------------------	-----------------	----------------

JUNE 19, 1991 **RECORD DRAWING**[illegible]

ORIGINAL						
SURVEY	SURVEYED				BY	DATE
	PLOTTED					
NOTE BOOK	TEMPLATE					
	AREAS					
NO	AREAS CHECKED					

SCANLON AND ASSOCIATES
ENGINEERS PLANNERS



HERQUE PARTMENT GROUP			ENGINEER'S SEAL 		SURVEY INFORMATION FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION CONTRACTOR: SUNDANCE MECHANICAL STARTED BY: C.O.A. / G.A. DATE: 6-23-91 INSPECTORS: FIELD DATE: 8-20-91 FIELD DATE: 8-20-91 VERIFICATION BY: U.F.R. DATE: 6-23-91 VERIFICATION BY: SUNDANCE DATE: 6-23-91 CORRECTED BY: MICRO-FILM INFORMATION RECORDED BY: DATE: NO:	
NO. DATE REMARKS BY			NO. BY DATE		NO. BY DATE		NO. BY DATE		NO. BY DATE	
DESIGNED BY GWC DATE: 8/31/90			DRAWN BY GWC DATE: 10/11/90		CHECKED BY RL DATE: 11/28/90		NO. BY DATE		NO. BY DATE	

List A PND Maps & Records											
1	2	3	4	5	6	7	8	9	10	11	12
26			38	45	25	91					

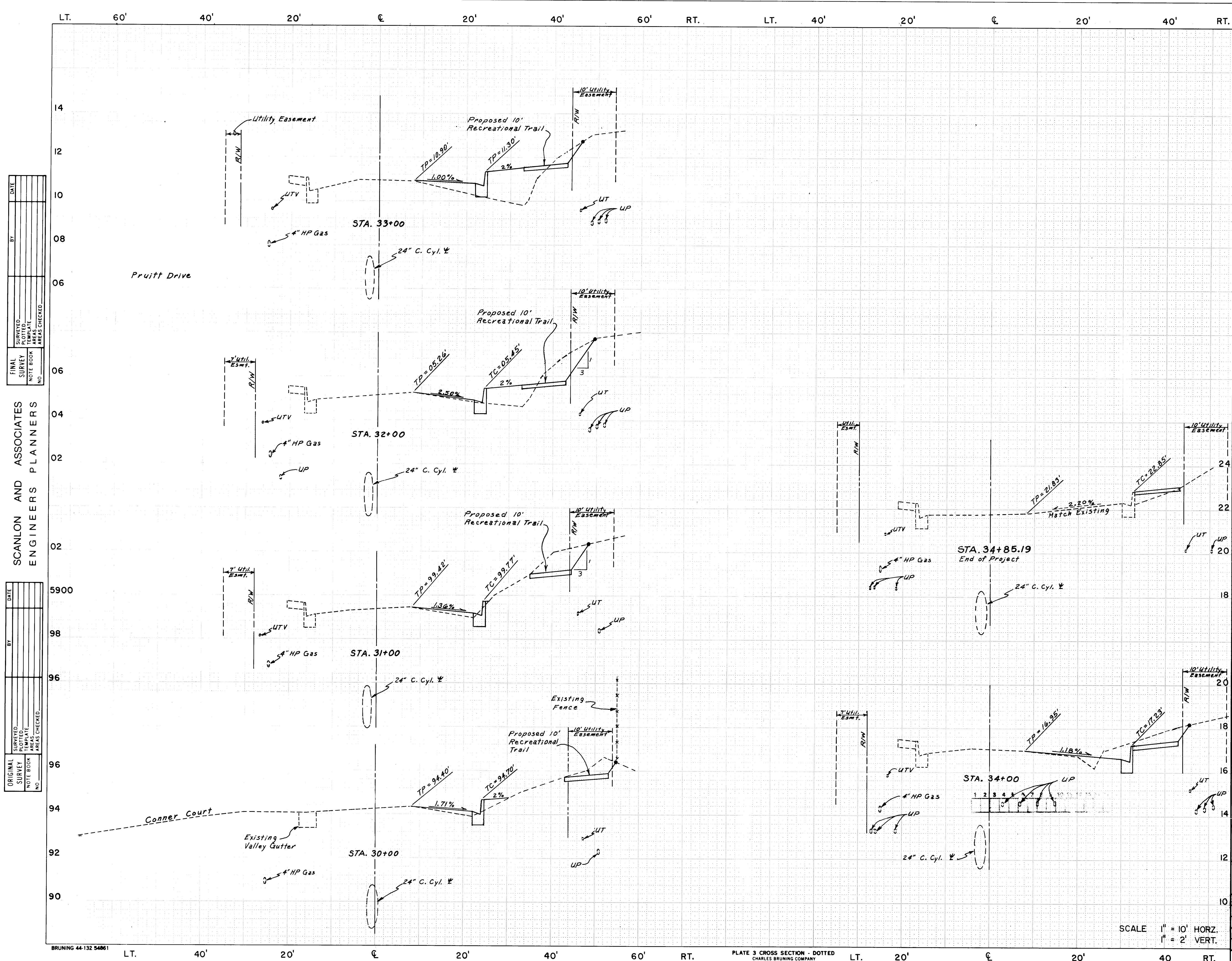
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
4	TITLE: WIDENING OF LOMAS BOULEVARD CROSS SECTIONS - STA. 21+00 TO STA. 29+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R. W. Kame</i>	<i>12-28-90</i>	WATER	<i>R. W. Kame</i>	<i>1-28-91</i>
TRANSPORTATION	<i>R. W. Kame</i>	<i>1-28-91</i>	WASTE WATER	<i>R. W. Kame</i>	<i>1-28-91</i>
HYDROLOGY	<i>B. B. G.</i>	<i>11-28-90</i>	PARKS & REC.	<i>N/A</i>	

SCALE: 1" = 10' HORIZ
1" = 2' VERT

PROJECT NO.	C.O.A. 3845	MAP NO.	J-23	SHEET	25	OF	26
----------------	-------------	------------	------	-------	----	----	----

JUNE 19, 1991 **RECORD DRAWING**



PROJECT NO. 11-28-90 DRAWN BY R.W. Kane CHECKED BY R.L. DATE 11-28-90		BOULEVARD TO STA. 34+85.19		SHEET 26 OF 26	
NO. DATE REMARKS REVISIONS DESIGNED BY GWC DATE 8/31/90 DRAWN BY GWC DATE 10/12/90 CHECKED BY RL DATE 11/29/90		ENGINEER'S SEAL 		SURVEY INFORMATION FIELD NOTES NO. BY DATE	
BENCH MARKS		AS BUILT INFORMATION CONTRACTOR SURINANCE MECHANICAL STAKED BY C.O.A. / G.A. DATE 3-91 INSPECTORS FIELD CHANGE BY L.J.F. DATE 2-91 VERIFICATION BY L.J.F. DATE 3-91 CORRECTED BY G. BALON & ASSOC. DATE MICRO-FILM INFORMATION RECORDED BY DATE NO.			