ALBUQUERQUE
SEAL
NEW MEXICO
1706

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

EL PUEBLO ROAD SEWER DIVERSION

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 5/28/96

RECORD SET
David J. Larson
5-23-96

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	-	4	7	7	8	.	9	0	0	7	9	6	

REV.	SHEETS	CITY ENGR.	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	1, 10, 14			Roger A. Hoen	8/1/92		

APPROVAL OF REVISIONS

REGISTERED PROFESSIONAL ENGINEER
STATE OF NEW MEXICO
No. 14856
DAVID J. LARSON
2-6-95

H N
Holmes & Narver
Greiner, Inc.

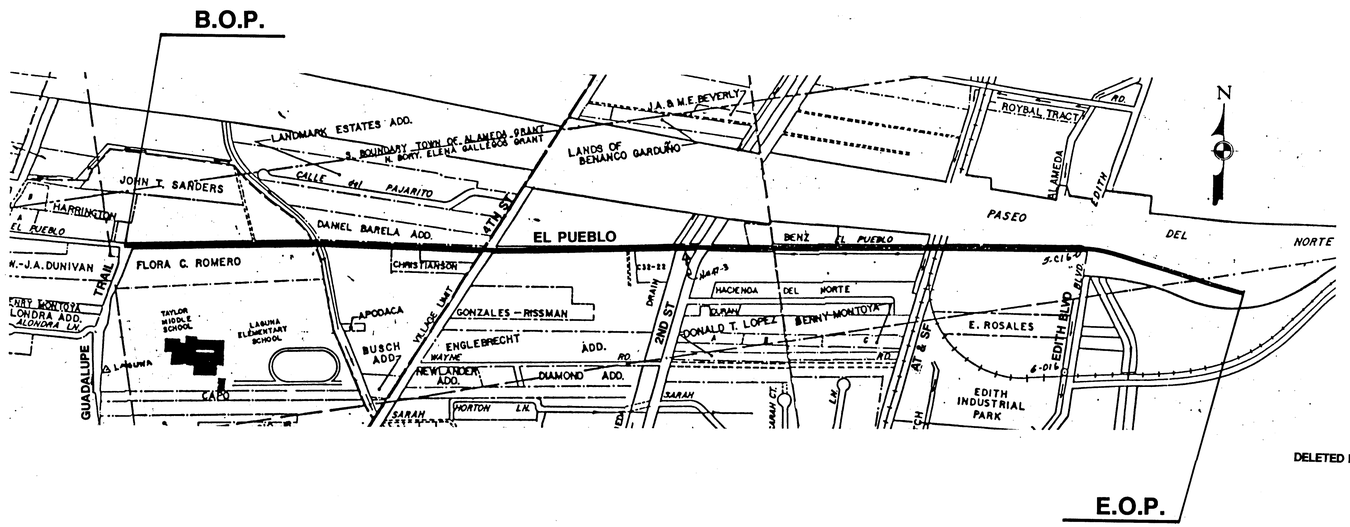
4778.90

APPROVED FOR CONSTRUCTION

SHEET 1 OF 15

294500
COVER.DGN

SCANNED BY
BY LASON



VICINITY MAP

DRAWING LIST

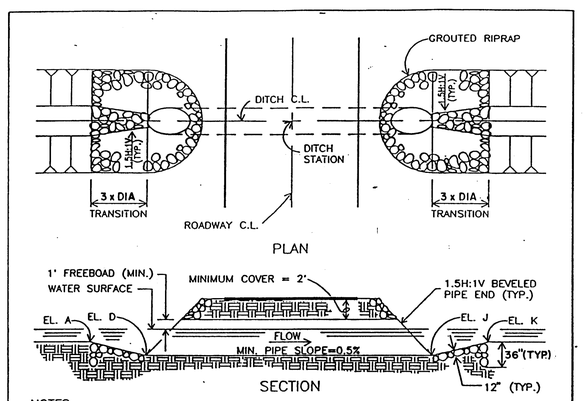
1. TITLE SHEET
2. VICINITY MAP AND DRAWING LIST
3. GENERAL NOTES AND LEGEND
4. PLAN AND PROFILE STATION BOP TO STATION 15+75
5. PLAN AND PROFILE STATION 15+75 TO STATION 29+50
6. PLAN AND PROFILE STATION 29+50 TO STATION 41+25
7. PLAN AND PROFILE STATION 41+25 TO STATION 54+00
8. PLAN AND PROFILE STATION 54+00 TO STATION 66+75
9. PLAN AND PROFILE STATION 66+75 TO STATION 79+50
10. PLAN AND PROFILE STATION 79+50 TO STATION 90+50

DELETED FROM SET ~~11. PLAN AND PROFILE STATION 90+50 TO STATION B.O.P.~~

12. TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)
13. SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
14. **GRIT CHAMBER LAYOUT**
15. **GRIT CHAMBER GRADING & DRAINAGE PLAN**

M R G C D
GENERAL CONSTRUCTION NOTES

1. Any work to be performed within the Middle Rio Grande Conservancy District Right-of-way shall be closely coordinated with the Middle Rio Grande Conservancy District; Engineering Department at 247-0234.
2. No work is to be done on facilities or structures belonging to, or operated by, the Middle Rio Grande Conservancy District, (M.R.G.C.D.) between March 1 and October 31 inclusive. However, work may be permitted by the M.R.G.C.D. if it can be shown that the work will not interfere with operations of the M.R.G.C.D. facility. All Work to be done within the M.R.G.C.D. facilities must be approved by the M.R.G.C.D. Engineer prior to commencing work.
3. The Contractor shall not store equipment, new materials or debris within District right-of-way which may interfere with operations and maintenance of the M.R.G.C.D. facility.
4. The Contractor shall not service vehicles or equipment within District right-of-way.
5. Seeding of disturbed areas within District Right-of-Ways is required per the attached seeding specifications.
6. The Contractor must maintain a minimum cover of 3' over all culvert crossings used for access to the project site.
7. The Contractor is responsible for repairing and/or replacement of damaged structure/structures within District Right-of-Ways that may occur due to the Contractors activities.
8. All damaged culvert crossings must be restored and/or replaced to the satisfaction of the Middle Rio Grande Conservancy District.
9. All salvageable culverts, irrigation gates, etc. must be returned to the District.
10. The Contractor is responsible for executing a "Special Use License Agreement" with the District prior to construction.



NOTES:

1. REINFORCED CONCRETE PIPE CULVERT SHALL CONFORM TO A.S.T.M. DESIGNATION 076-72, CLASS III, WALL B, USING "O" RING GASKETED JOINTS.
2. CORRUGATED METAL PIPE CULVERT SHALL CONFORM TO INTERIM FEDERAL SPECIFICATION WW-P-00405, CLASS I AND II, SHAPES 1, 2 AND 3.
3. CULVERT CROSSINGS SHALL BE SET AT AN ELEVATION PROVIDING A MAXIMUM BACK WATER EFFECT OF NOT MORE THAN 0.25' AS DETERMINED BY HYDRAULIC COMPUTATIONS.
4. TRANSITIONS SHALL BE PROVIDED AT BOTH INLET AND OUTLET OF THE PIPE AS SHOWN ON THE DRAWING ABOVE. TRANSITIONS MAY BE CONSTRUCTED OF CONCRETE OR GROUTED RIPRAP.
5. GROUTED RIPRAP PROTECTION SHALL BE USED ADJACENT TO STRUCTURES IN EARTH-SURFACED WATERWAYS WHERE EROSION MAY OCCUR. RIPRAP SHALL BE HARD, DENSE AND DURABLE.
6. ALL BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE A.S.T.M. PROCTOR TEST.
7. NO CULVERT INSTALLATIONS ARE PERMITTED DURING IRRIGATION SEASON (MARCH 1 TO NOVEMBER 1).
8. THE LICENSEE SHALL CLEAN AND REMOVE ALL SILT AND DEBRIS WITHIN THE CULVERT CROSSING ON A ANNUAL BASIS PRIOR TO MARCH 1st AND THEREAFTER.
9. THE LICENSEE SHALL BE RESOPNSIBLE FOR THE MAINTENANCE OF THE CULVERT CROSSING AND ALL ACCESORIES ON THE CULVERT CROSSING.
10. THE LICENSEE SHALL BE RESOPNSIBLE FOR THE CONTROL OF VEGETATION ON AND AROUND THE CULVERT CROSSING.

PIPE CULVERT INFORMATION

EL @ A=_____
EL @ D=_____
EL @ J=_____
EL @ K=_____
WS @ A=_____
WS @ K=_____
PIPE LENGTH=_____
PIPE DIA.=_____
TRANSITION DIM.=_____

NOTE: PIPE CULVERT INFORMATION WILL BE DETERMINED BY THE DISTRICT SHOULD THE CULVERT PIPE BE REPLACED.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MINIMUM CONSTRUCTION STANDARDS
PIPE CULVERT CROSSING
LATERALS AND ACEQUIAS
B.O.R. APPROVAL _____
M.R.G.C.D. APPROVAL _____
DRAWN _____
DRAWING NO. 163-518-4944

A
2

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY
INSPECTORS ACCEPTANCE BY
FIELD VERIFICATION BY
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
PROFESSIONAL ENGINEER
DAVID J. LARROW
No. 8556
REGISTERED

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4778.090 10296

RECORD SET
David J. Larrow
5-23-96

HN
Holmes & Norver

Greiner, Inc.

NO. | DATE | REMARKS | BY
REVISIONS

DESIGNED BY L. LOSACK DATE 1/95
DRAWN BY J. MOORE DATE 1/95
CHECKED BY D. LARROW DATE 1/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **EL PUEBLO RD. SEWER DIVERSION**
VICINITY MAP

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.K. Hartley	2-9-95	WATER		2/21/95
TRANSPORTATION	N/A		WASTE WATER		
HYDROLOGY	N/A		BCPWD		2/21/95
PARKS & REC					

PROJECT NO.	MAP NO.	SHEET	OF
4778.90		2	15

2945.00

SCANNED BY BY LASON

148413

GENERAL NOTES

1. ALL WORK DETAILED ON THESE DRAWINGS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986, HEREBY REFERRED TO AS THE SPECIFICATIONS. REFERENCES MADE TO STANDARD DRAWINGS IMPLY THAT SECTION OF THE SPECIFICATIONS WHICH INCLUDES MISCELLANEOUS STANDARD DETAILS.

2. LOCATION OF UTILITIES ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PERTINENT UTILITIES IN THE FIELD. CALL ONE CALL SYSTEM, INC. AT 260-1990 TWO WORKING DAYS BEFORE ANY EXCAVATION.

3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES.

4. 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 PUBLIC WORKS DEPARTMENT SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.

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

   ALL PAVEMENT MARKINGS OR OTHER TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC CONTROL CONDUIT, ADVERSELY AFFECTED BY CONSTRUCTION SHALL BE PLACED IN PRE-CONSTRUCTION CONDITION. THESE COSTS SHALL BE INCIDENTAL TO THE PROJECT.

6. CONTRACTOR SHALL COORDINATE WITH PNM (JIM VANN - 848-3426) WHERE LIP OF TRENCH IS LESS THAN 5' TO POWER POLE. COSTS ASSOCIATED WITH SUPPORT OF EXISTING POLES SHALL BE INCIDENTAL TO THE PROJECT.

7. CONTRACTOR SHALL BE CHARGED BY PNM FOR ANY DAMAGE TO PNM CABLES AND FOR SUPPORTING OR MINOR RELOCATIONS OF CABLES DURING CONSTRUCTION. THESE COSTS SHALL BE INCIDENTAL TO THE PROJECT.

8. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING. FINAL SURFACE COURSE SHALL BE INSTALLED AFTER FULL APPROVAL AND ACCEPTANCE OF THE UTILITY LINES.

9. PAVEMENT REPLACEMENT SHALL BE BY LAYDOWN MACHINE. PAVEMENT REPLACEMENT AND BACKFILL SHALL BE PER DETAIL "A" & DETAIL "B", THIS SHEET.

10. THE CONTRACTOR SHALL PROVIDE FOUR PROJECT CONSTRUCTION SIGNS PER THE REQUIREMENTS OF SPECIAL PROVISIONS SECTION 3. THE CONTRACTOR SHALL MOVE THE SIGNS DURING THE PROJECT AT THE DIRECTION OF THE ENGINEER.

11. STATIONING IS BASED ON CENTERLINE OF SANITARY SEWER, CENTERLINE MANHOLE TO CENTERLINE MANHOLE, UNLESS NOTED OTHERWISE.

12. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFECTIVE OR DETERIORATED CONDITION UPON VISUAL INSPECTION OF EXISTING SERVICE LINES. THE ENGINEER OR THE CONTRACTOR AS DIRECTED BY THE ENGINEER SHALL NOTIFY PROPERTY OWNERS OF SUCH SITUATION AND SHALL PROVIDE THE PROPERTY OWNERS WITH THE OPPORTUNITY TO VISUALLY OBSERVE AND REPLACE THE SERVICE LINE WITHIN A REASONABLE AMOUNT OF TIME.

13. PVC GRAVITY FLOW PIPE IN SIZES 18 INCHES AND LARGER SHALL MEET THE REQUIREMENTS OF ASTM F679 OR ASTM F794. MINIMUM PIPE STIFFNESS SHALL BE 46 PSI.

14. ALL NEW MANHOLES SHALL BE COATED WITH STRONG SEAL OR APPROVED EQUAL.

15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND RECONNECT ALL EXISTING SEWER SERVICE CONNECTIONS.

16. SANITARY SEWER SERVICE RECONNECTIONS AND TRANSFERS SHALL BE PAID FOR IN ACCORDANCE TO THE UNIT PRICE LISTED ON THE BID PROPOSAL. HOWEVER, THOSE CONNECTIONS DAMAGED WHILE PERFORMING THE WORK UNDER THIS PROJECT SHOULD BE REPLACED AT NO ADDITIONAL COST TO THE CITY.

17. ALL SANITARY SEWER MANHOLES SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD DRAWING 2102. ALL SANITARY SEWER MANHOLES SHALL BE 4 FEET DIAMETER UNLESS OTHERWISE NOTED.

18. ELECTRONIC MARKER DISCS SHALL BE INSTALLED PER SECTION 170 OF THE TECHNICAL SPECIFICATIONS.

19. INSTALL VERTICAL DROP AT MANHOLE AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2116.

20. CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY OF NEW MEXICO (761-7775) TWO WEEKS PRIOR TO NEEDING A GAS LINE SEGMENT RELOCATED.

21. PARALLEL WATER AND SEWER LINES SHALL BE LAID AT LEAST 10 FEET APART HORIZONTALLY AND THE WATERLINE SHOULD BE AT A HIGHER ELEVATION THAN THE SEWER.

22. WHEN WATER AND SEWER LINES CROSS EACH OTHER, THE WATERLINE SHALL BE AT LEAST EIGHTEEN (18) INCHES ABOVE THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERLINE JOINTS.

23. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS.

24. ALL EXISTING SANITARY SERVICES SHALL BE RECONNECTED TO THE NEW SEWER MAIN AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2134.

25. EXISTING MANHOLE FLOORS SHALL BE REHABILITATED AS PER CITY OF ALBUQUERQUE STANDARD DRAWINGS 2101 AND 2102.

26. CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY PUBLIC WORKS DEPT., TRAFFIC CONTROL MANAGER, SHERIFF, AND FIRE DEPARTMENTS IN WRITING, A MINIMUM OF 5 WORKING DAYS PRIOR TO BEGINNING ANY WORK WITHIN COUNTY ROW.

27. THIS PROJECT IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MASTER UTILITY EASEMENT AND RIGHT-OF-WAY AGREEMENT ENTERED INTO BETWEEN THE COUNTY OF BERNALILLO AND THE CITY OF ALBUQUERQUE. EFFECTIVE DATE 8-20-1990.

28. ALL TRENCH BACKFILL WITHIN COUNTY RIGHT OF WAY SHALL BE COMPACTED TO 95% PERCENT IN ACCORDANCE WITH ASTM D 1557 IN ACCORDANCE WITH COUNTY OF BERNALILLO STANDARDS.

29. ECCENTRIC PLUG VALVES SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

    A. NON-LUBRICATED TYPE, MECHANICAL JOINT.
    B. VALVE BODY: ASTM A-126, CLASS B CAST IRON WITH 90% NICKEL WELDED OVERLAY SEAT.
    C. PLUG: ASTM A126, CLASS B CAST IRON WITH BUNA RUBBER COATING.
    D. BEARINGS: PERMANENTLY LUBRICATED BRONZE OR STAINLESS STEEL.
    E. EXTERIOR COATING: ASPHALT VARNISH.
    F. PRESSURE RATING: 150 PSI.
    G. BURIED OPERATORS:

       1. BURIED SERVICE OPERATORS ON VALVES LARGER THAN 2-1/2" SHALL HAVE A 2-INCH AWWA OPERATING NUT. ALL MOVING PARTS OF THE VALVE AND OPERATORS SHALL BE ENCLOSED IN A HOUSING TO PREVENT CONTACT WITH THE SOIL.

       2. BURIED SERVICE OPERATORS FOR QUARTER-TURN VALVES SHALL BE DESIGNED TO WITHSTAND 300 FOOT-POUNDS OF INPUT TORQUE AT THE FULLY OPEN OR FULLY CLOSED POSITIONS WITHOUT DAMAGE TO THE VALVE OR OPERATOR AND SHALL BE GREASE PACKED AND GASKETED TO WITHSTAND A SUBMERSION IN WATER TO 10 PSI.

       3. VALVES SHALL BE INSTALLED WITH EXTENSION STEMS, AS REQUIRED, AND VALVE BOXES.

30. A SINGLE LANE OF TRAFFIC SHALL BE MAINTAINED ON THE NORTH SIDE OF EL PUEBLO ROAD IN THE VILLAGE OF LOS RANCHOS DE ALBUQUERQUE TO ALLOW SCHOOL BUS AND OTHER LOCAL TRAFFIC.

31. CONSTRUCTION ON EL PUEBLO ROAD AND GUADALUPE TRAILS SHALL BE COORDINATED BY THE CONTRACTOR TO PREVENT DISRUPTION OF SCHOOL BUS TRAFFIC TO TAYLOR MIDDLE SCHOOL.

32. CRITICAL INTERSECTION WORK SHALL NOT START UNTIL THE CONTRACTOR HAS ALL MATERIAL, EQUIPMENT, AND NECESSARY PERSONNEL ON-SITE. TRAFFIC CONTROL DEVICES SHALL NOT BE PLACED PREMATURELY.

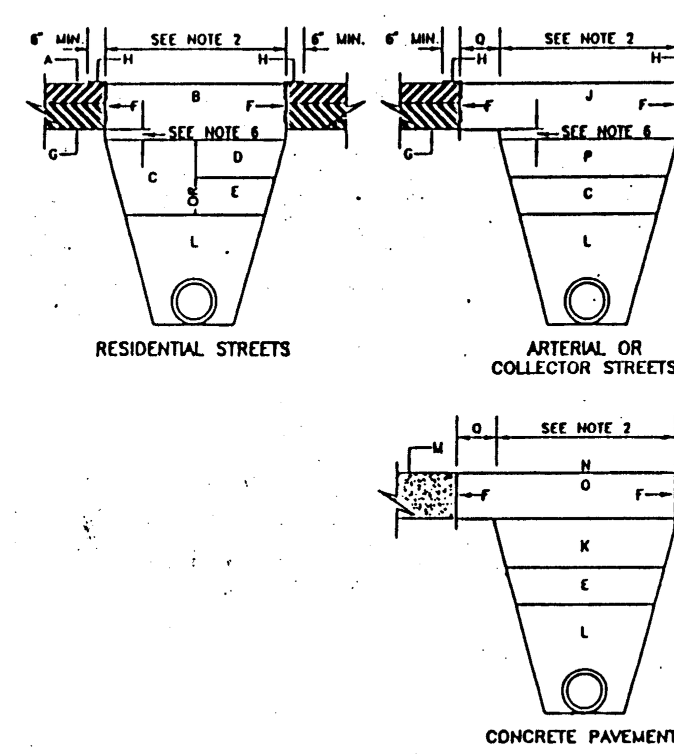
33. ALL IRRIGATION PIPE CONSTRUCTION SHALL CONFORM TO THE DETAIL SHOWN BELOW.

34. THE CONTRACTOR SHALL NOTIFY MR. DON MARQUEZ (764-6186) AT SUN TRAN 5 DAYS PRIOR TO WORKING AT THE 4TH ST./EL PUEBLO ROAD INTERSECTION.

35. THE MAXIMUM LENGTH OF OPEN TRENCH SHALL BE 300 FEET.

36. PRIOR TO THE START OF CONSTRUCTION ALL ADJACENT PROPERTY OWNERS SHALL BE GIVEN NOTIFICATION BY THE CONTRACTOR OF THE FORTHCOMING CONSTRUCTION IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. THIS NOTIFICATION WILL INCLUDE THE DETERMINATION OF THE LOCATION OF NEW SANITARY SERVICE CONNECTIONS OR THE CONDITION OF AN EXISTING SANITARY SERVICE LINE TO BE RECONNECTED TO THE NEW SEWER MAIN.

37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.



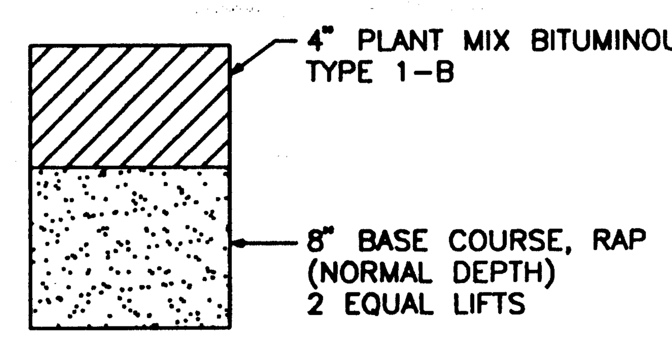
GENERAL NOTES

1. COMPACTION AS DETERMINED BY ASTM D 1557 MAX. DENSITY.
2. TRENCH CUT WIDTHS SHALL BE MIN. WIDTH REQ'D FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL COMPACTION AND COMPLIANCE WITH CURRENT AND APPLICABLE SAFETY REGULATIONS.
3. ALL PAVEMENT CUT EDGES WILL BE TRIMMED TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIALS. "STITCH" CUTTING OF PAVEMENT WILL NOT BE PERMITTED.
4. FOR RESIDENTIAL STREETS, ASPHALT CONC. SURFACE COURSE SHALL BE 1 1/2". THE REMAINDER SHALL BE BASE COURSE.
5. FOR ARTERIAL OR COLLECTOR STREETS, ASPHALT CONC. SURFACE COURSE SHALL BE 1 1/2" - 2". THE REMAINDER SHALL BE BASE COURSE.
6. ADDITIONAL 2" THICKNESS OF ASPHALT CONC. REQ'D ON PAVEMENT CUTS LESS THAN 8' WIDE OR LESS THAN 100' LONG. FOR ASPHALT CONC. PAVEMENT CUTS 8' OR MORE IN WIDTH AND LONGER THAN 100' SHALL BE PLACED WITH LAYDOWN MACHINE TO A DEPTH EQUAL TO THAT OF ASPHALT CONC. REMOVED OR TO THE DEPTH SHOWN ON DWG. 2405, 2407, 2408 FOR APPROPRIATE PAVEMENT SECTION, WHICH EVER IS GREATER.

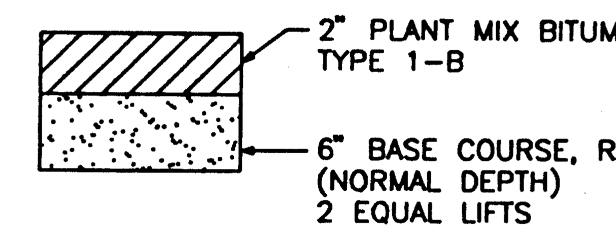
CONSTRUCTION NOTES

A. 2"-4" EXIST. ASPHALT SURFACE COURSE.
B. 4"-6" ASPHALT CONC. TO BE 2" THICKER THAN EXIST. PAVEMENT, SEE NOTES 4 & 6.
C. 12" COMPACTED SUBBASE MATERIAL, PLACED IN 2-6" LIFTS, 95% COMPACTION.
D. 6" BASECOURSE, 95% COMPACTION.
E. 6" SUBGRADE MATERIAL, 95% COMPACTION.
F. SAWCUT OR BLADECUT ASPHALT PAVEMENT, SAWCUT ONLY ONE THIRD CONC. PAVEMENT DEPTH.
G. EXIST. ASPHALT PAVEMENT.
H. TACK COAT.
J. 4"-6" ASPHALT CONC. TO BE 2" THICKER THAN EXIST. PAVEMENT. SEE NOTES 5 & 6.
K. 8" BASECOURSE, 95% COMPACTION.
L. SUBGRADE MATERIAL, 95% COMPACTION.
M. EXIST. CONC. PAVEMENT.
N. JOINTS TO BE TOOLED & SEALED IN ACCORDANCE WITH ENGINEER'S REQUIREMENTS.
O. TO MATCH EXIST. THICKNESS, 6" MIN. 4000 P.S.I.
P. 8" BASECOURSE, 95% COMPACTION.
Q. 12" CUT-BACK, ONLY APPLICABLE TO FED. HWY. AND NMSHD FUNDED PROJECTS.

REVISIONS	COUNTY OF BERNALILLO
	PAVING COUNTYWIDE PAVEMENT CUTS FOR ALL UTILITIES DWG. 2465



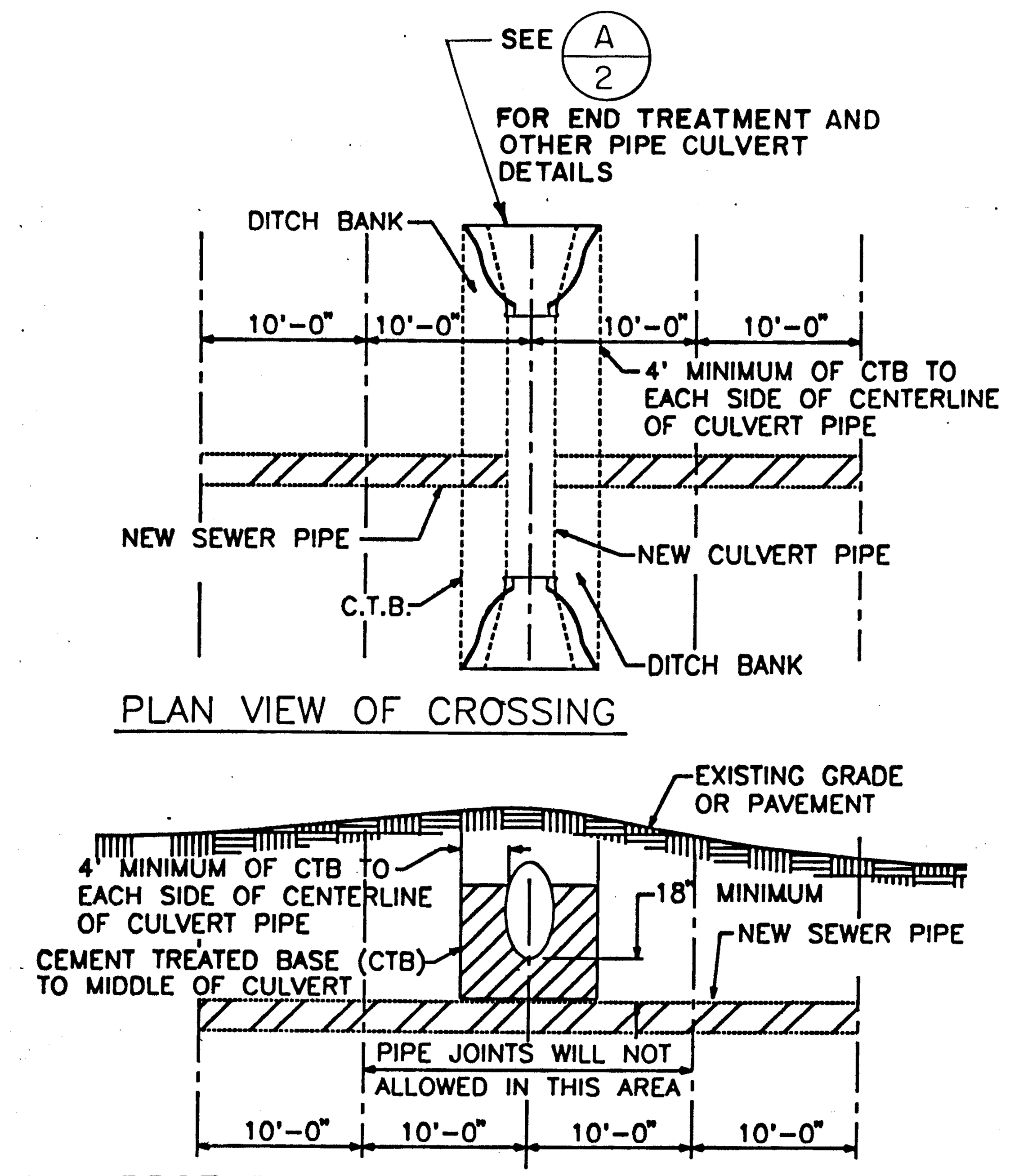
B.O.P. TO STA 33+25



STA 34+00 TO E.O.P.

EL PUEBLO RD PAVEMENT REPLACEMENT SECTIONS

NO SCALE



NOTE:
1. HORIZONTAL LOCATION TO BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR WITH M.C.G.C.D. APPROVAL. VERTICAL PLACEMENT MUST BE OF SIMILAR ELEVATION 0.1"±
2. SEWER PIPE TO BE POSITIINED EQUAL DISTANCE BETWEEN CULVERT PIPE JOINTS.
3. INSTALLATION OF SEWER PIPE SHOULD BE MINIMUM OF 18" BELOW EXISTING CULVERT PIPE AND A MINIMUM OF 3'-0" BELOW EXISTING GRADE.
4. SEWER SLEEVE PIPE UNDER DITCH CULVERT MUST BE SINGLE LENGTH. PIPE JOINTS WILL NOT BE ALLOWED UNDER DITCH CULVERT.
5. FOR CULVERT DETAILS SEE M.R.G.C.D. STANDARD DRAWINGS.

TYPICAL DITCH CROSSING DETAIL

NONE

A/3

AS BUILT INFORMATION: CONTRACTOR; WORK STAKED BY, DATE; INSPECTOR'S ACCEPTANCE BY, DATE; FIELD VERIFICATION BY, DATE; DRAWINGS CORRECTED BY, DATE

MICRO-FILM INFORMATION: RECORDED BY, DATE; NO.

BENCH MARKS

SURVEY INFORMATION: FIELD NOTES — NO., BY, DATE

ENGINEER'S SEAL

2-2-95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4778-90 0396

RECORD SET
David J Larrow
5-23-96

REVISIONS: NO., DATE, REMARKS, BY

DESIGN: DESIGNED BY L. LOSACK DATE 1/95; DRAWN BY J. MOORE DATE 1/95; CHECKED BY D. LARROW DATE 1/95

Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

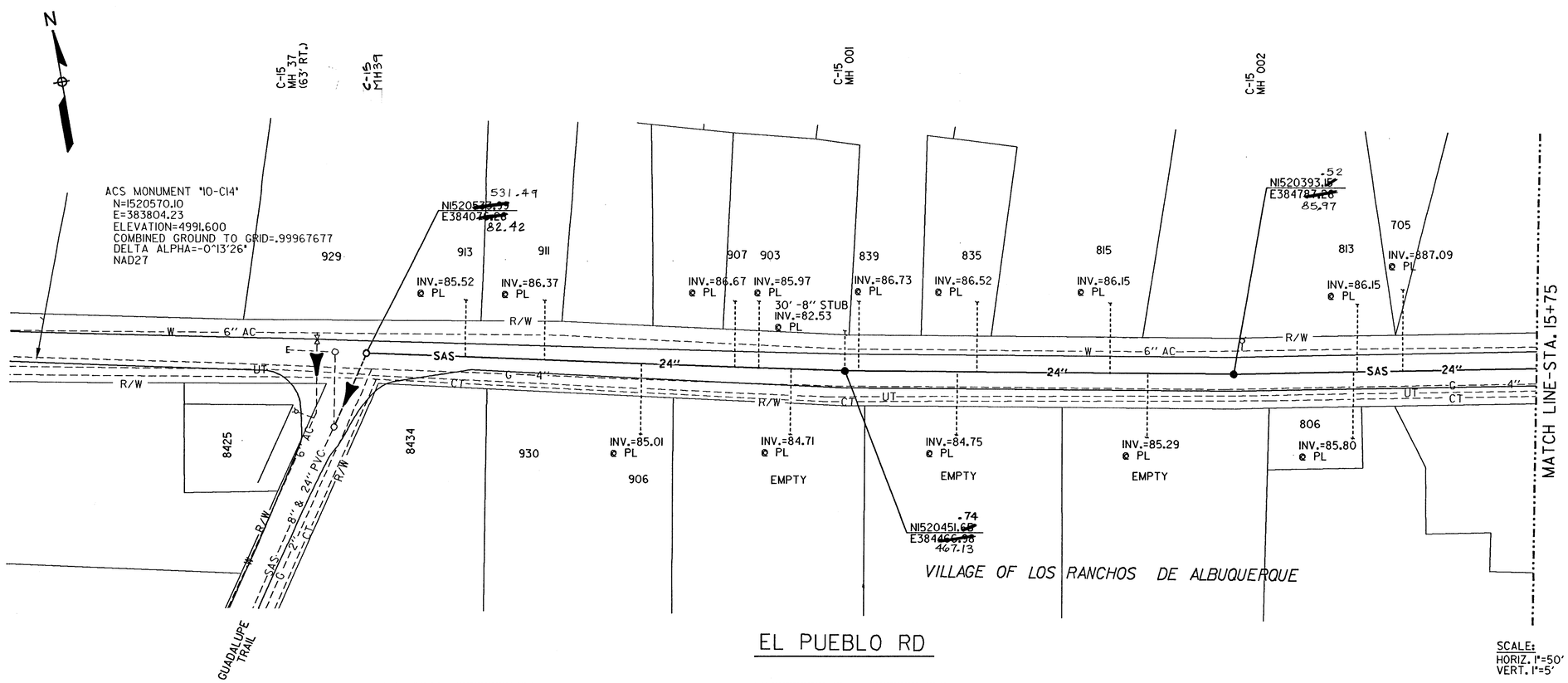
TITLE: EL PUEBLO RD. SEWER DIVERSION GENERAL NOTES AND LEGEND

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Godsby	2-9-95	WATER	[signature]	2/8/95
TRANSPORTATION	N/A		WASTE WATER		
HYDROLOGY	N/A		BCPWD	[signature]	2/21/95
PARKS & REC					

PROJECT NO. 4778.90 | MAP NO. | SHEET 3 OF 15

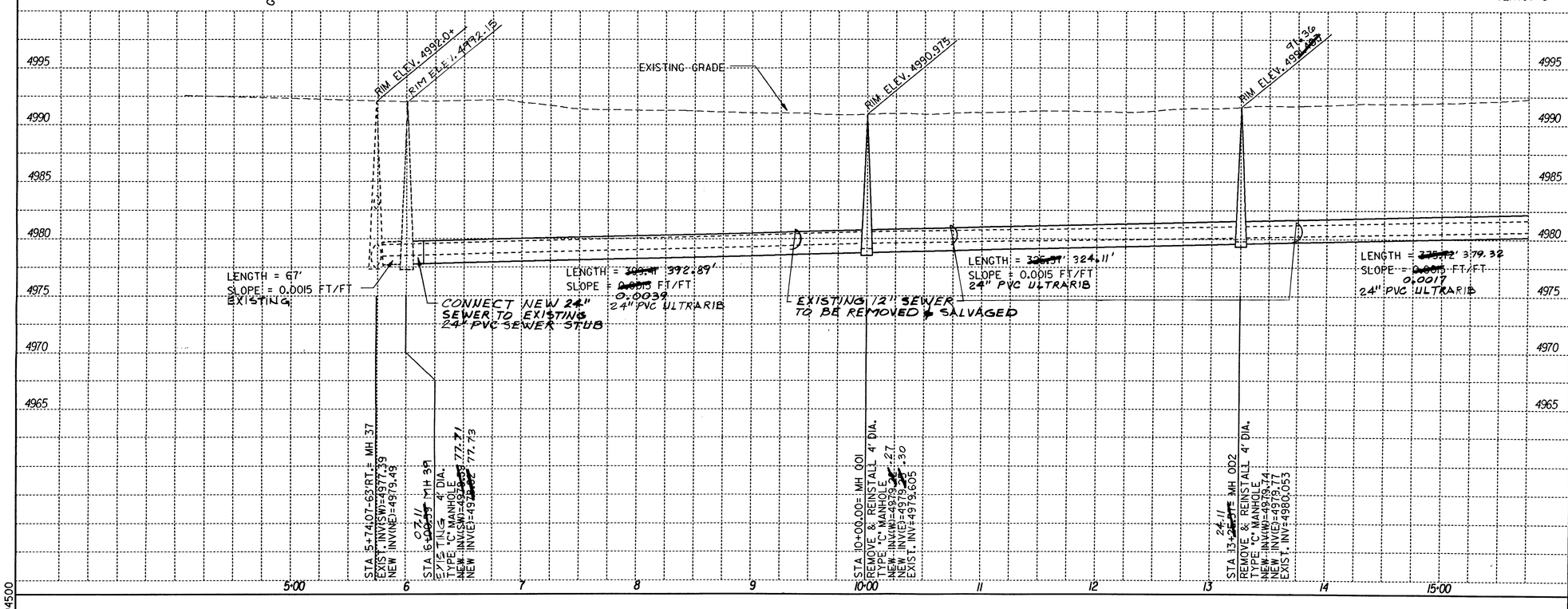
2945.00

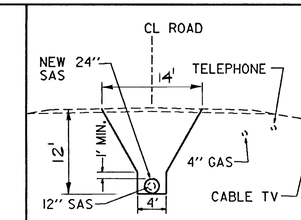
SCANNED BY BY LASON



EL PUEBLO RD

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'





SECTION-(STA. 15+00)
SCALE: 1"=10'-0"

NOTE:
RECONNECT ALL EXISTING SERVICES TO SEWER MAIN BETWEEN B.O.P. AND STA 20+00.

EL PUEBLO ROAD - SEWER SERVICES				
ADDRESS	STATION	OFFSET	INV. @ PL	COMMENTS

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE

BENCH MARKS
ELEV. 4993.537
5-C-15
STANDARD ACS. ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

ENGINEER'S SEAL

NO.	DATE	REMARKS / REVISIONS	BY

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4778.90 0 0496

RECORD SET
David J. Larrow
5-23-96

HN
Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

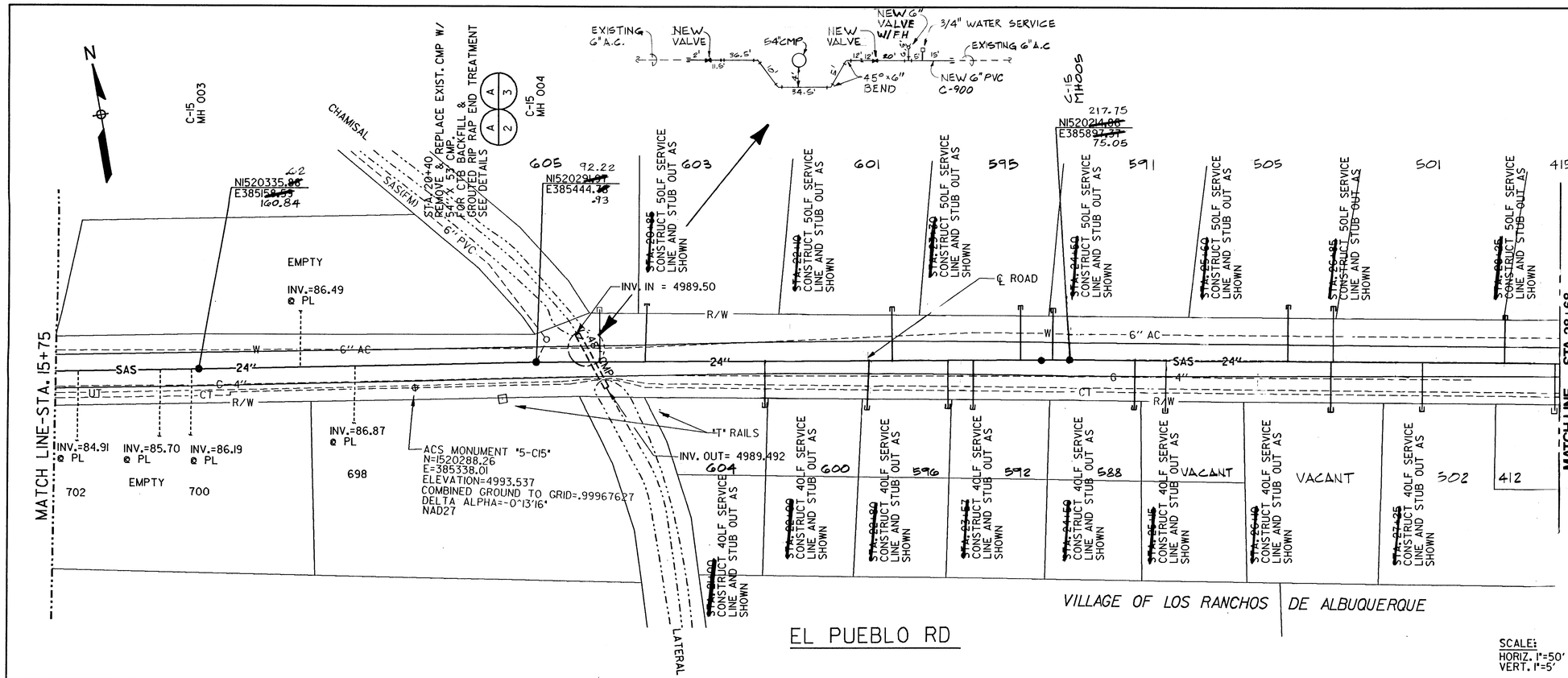
TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.G. Goolsby	2-9-95	Water		
Transportation	N/A		Waste Water		2/10/95
Hydrology	N/A		BCPWD		2/10/95

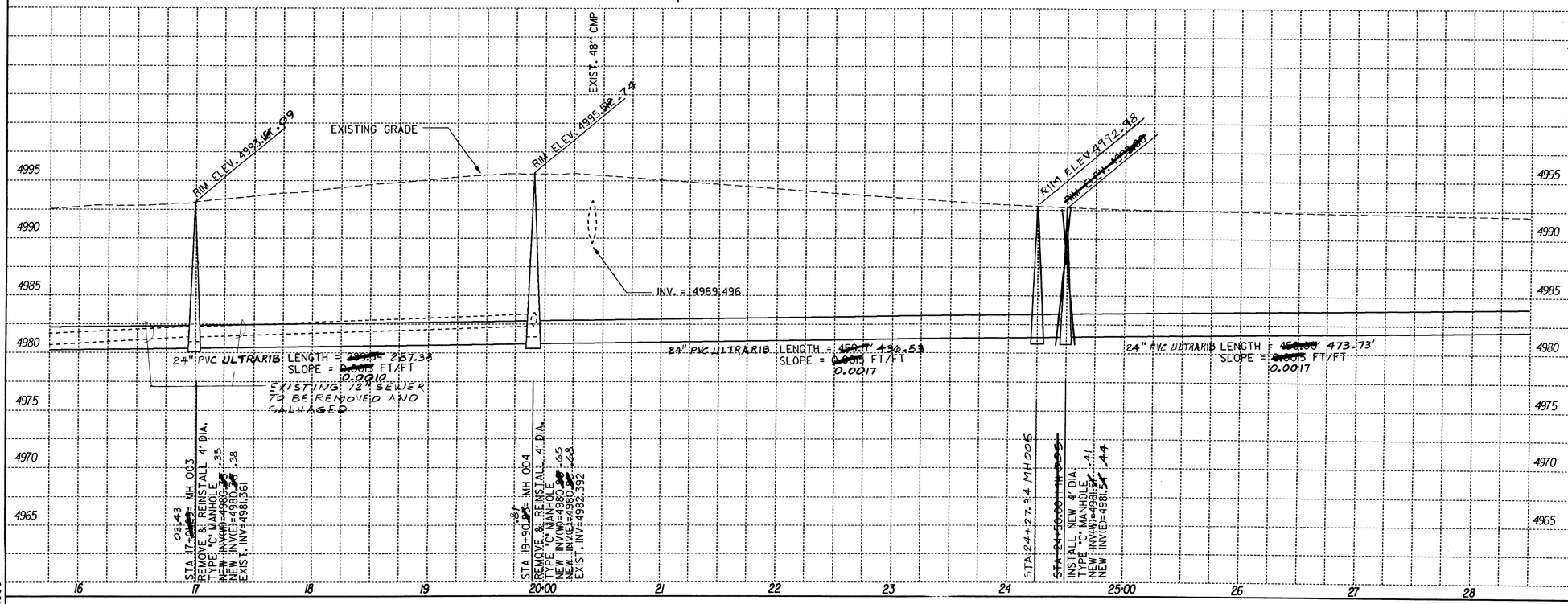
DRAWING NO. 4778.90 | MAP NO. C-15 | SHEET 4 OF 15

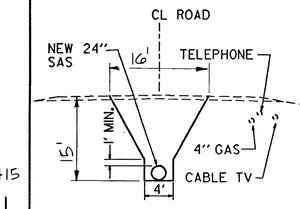
294500
PPI.DGN

SCANNED BY
BY LASON



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'





SECTION-(STA. 20+50)
SCALE: 1"=10'-0"

				DEPTH(FT)	
605	20+45	40'		5'	
603	20+82	40'		5'	
604	21+88	38'		5.5'	
600	22+78	40'		5.5'	
601	22+98	40'		5'	
596	23+47	38'		5'	
592	23+68	37'		5'	
595	24+03	38'		5.5'	
591	24+54	34'		5.5'	
588	25+01	31'		5.5'	
505	26+43	36'		5.5'	
	26+80	37'		5'	VACANT LOT
501	26+[illegible]	37'		5'	
502	27+59	34.5'		5'	
415	28+30	37.5'		5.5'	
412	28+68	37.5'		5.5'	
V-LOT	25+32	40'		4.5'	VACANT LOT

AS BUILT INFORMATION	DATE
CONTRACTOR	
WORK STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS	ELEV. 4993.537
5-C-15	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE
1	GRIENER INC.	11/94

STANDARD ACS, ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO 14056 DAVID G. LARROW 6-23-96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
2 6 4 7 7 8 . 9 0 0 5 9 6

RECORD SET
David G. Larrow
5-23-96

HN Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

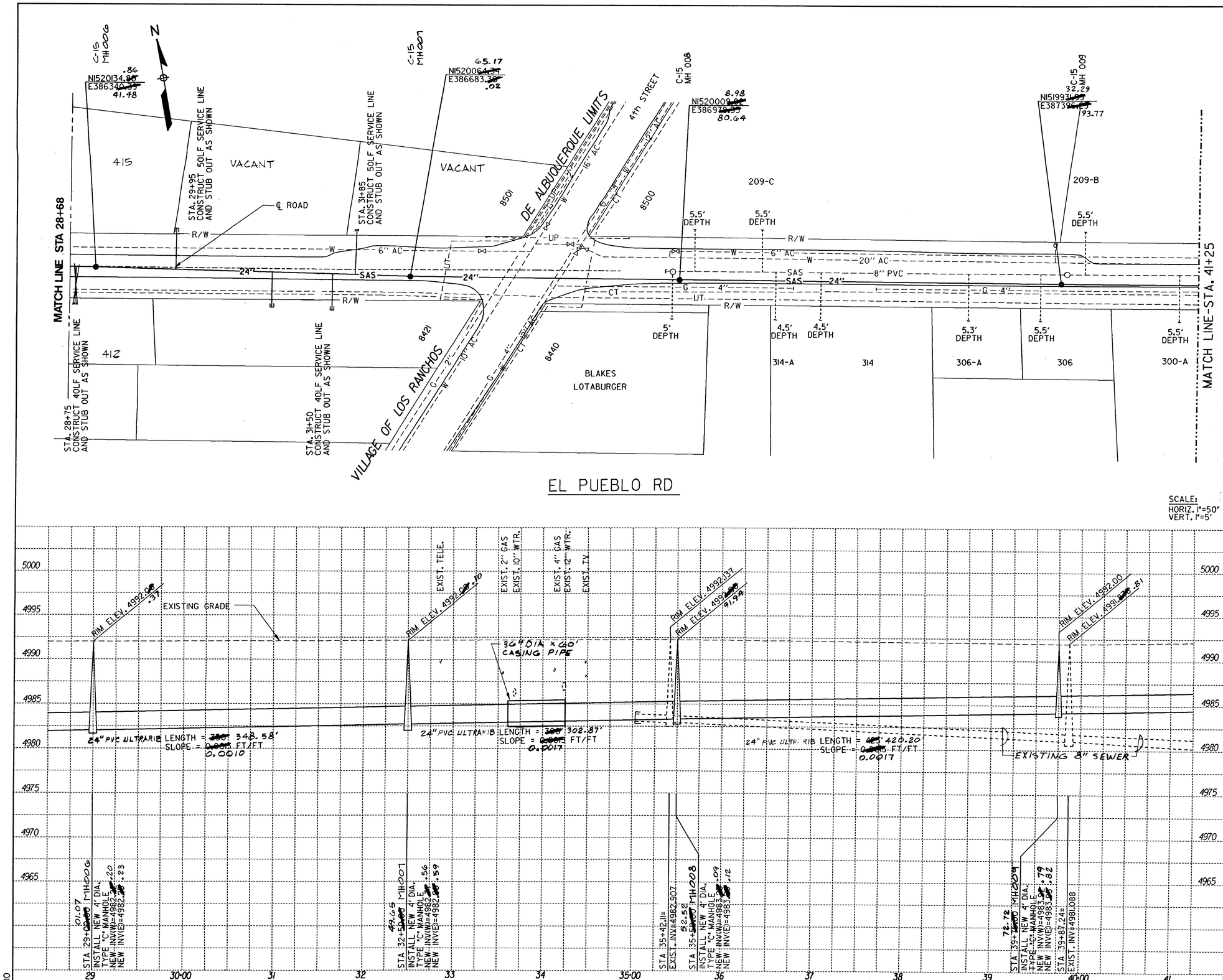
TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

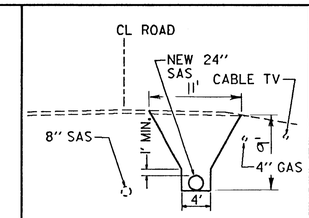
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Gordeley	2-9-95	Water		2/6/95
Transportation	N/A		Waste Water		
Hydrology	N/A		BCPWD		2/6/95

DRAWING NO.	MAP NO.	SHEEET
4778.90	C-15	5 OF 15

294500
PP2.DGN

SCANNED BY BY LASON





SECTION-(STA. 36+00)
SCALE: 1"=10'-0"

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS — ELEV. 4993.537
5-C-15

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE
1	GREINER INC.	11/94

STANDARD ACS. ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-4778.90 06196

RECORD SET
David J Larson
5-23-96

Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

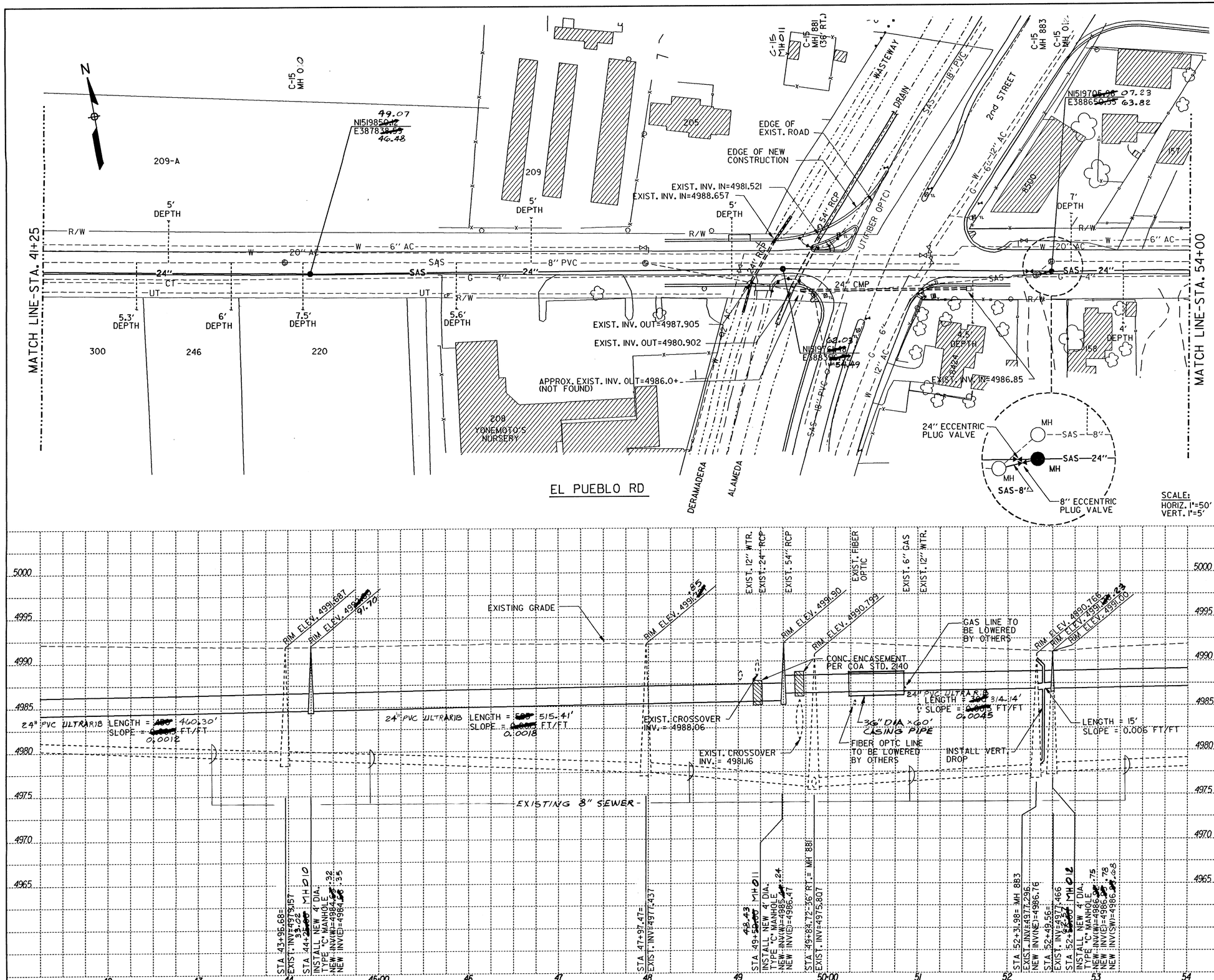
TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

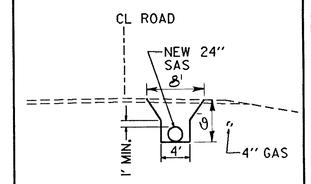
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Brockley	2-9-95	Water		
Transportation	N/A		Waste Water		2/10/95
Hydrology	N/A		BCPWD		2/14/95

DRAWING NO.	MAP NO.	SHEEET	OF
4778.90	C-15	6	15

294500
PP3.DGN

SCANNED BY
BY LASON





SECTION-(STA. 49+75)
SCALE: 1"=10'-0"

EL PUEBLO ROAD - SEWER SERVICES				
ADDRESS	STATION	OFFSET	INV. @ PL	COMMENTS

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		DATE
ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE

BENCH MARKS
ELEV. 4993.527
5-C-15
STANDARD ACS, ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND.
LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY	DATE
		REVISIONS		
		DESIGN		

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2-6-14 7-7-78 8-4-81 10-7-96

RECORD SET
David J Larrow
5-23-96

HN Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

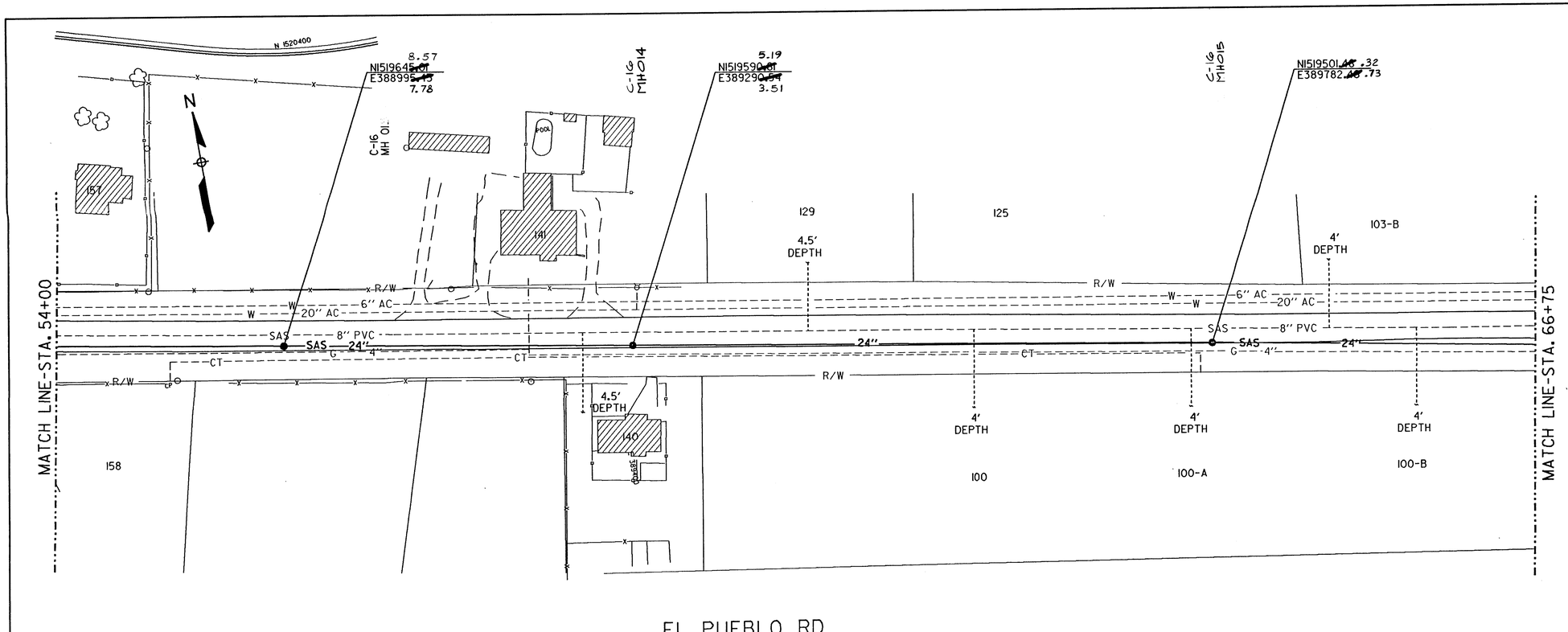
TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Grobsky	2-9-95	Water		
Transportation	N/A		Waste Water		2/8/95
Hydrology	N/A		BCPWD		2/8/95

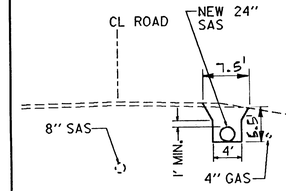
DRAWING NO.	MAP NO.	SHEET	OF
4778.90	C-16	7	15

294500
PP4.DGN

SCANNED BY
BY LASON

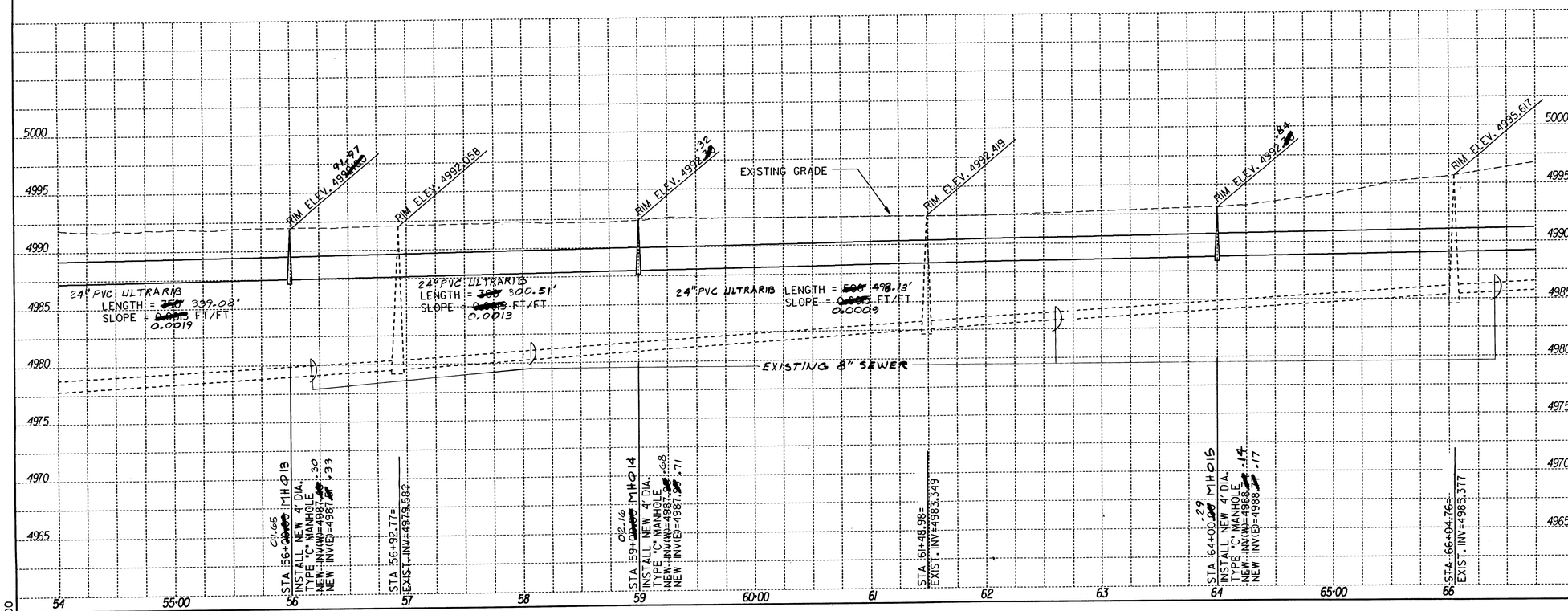


EL PUEBLO RD



SECTION-(STA. 65+00)
SCALE: 1"=10'-0"

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



294500

PP5.DGN

EL PUEBLO ROAD - SEWER SERVICES				
ADDRESS	STATION	OFFSET	INV. @ PL	COMMENTS

AS BUILT INFORMATION

	DATE
CONTRACTOR	
WORK STAKED BY	
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

BENCH MARKS
ELEV. 4993.537
5-C-15

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

STANDARD ACS, ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND.
LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

ENGINEER'S SEAL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 47 78 80 08 96

RECORD SET
David J. Larrow
5-23-96

HN
Holmes & Narver

Greiner, Inc.

NO.	DATE	REMARKS REVISIONS	BY
		DESIGN	

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

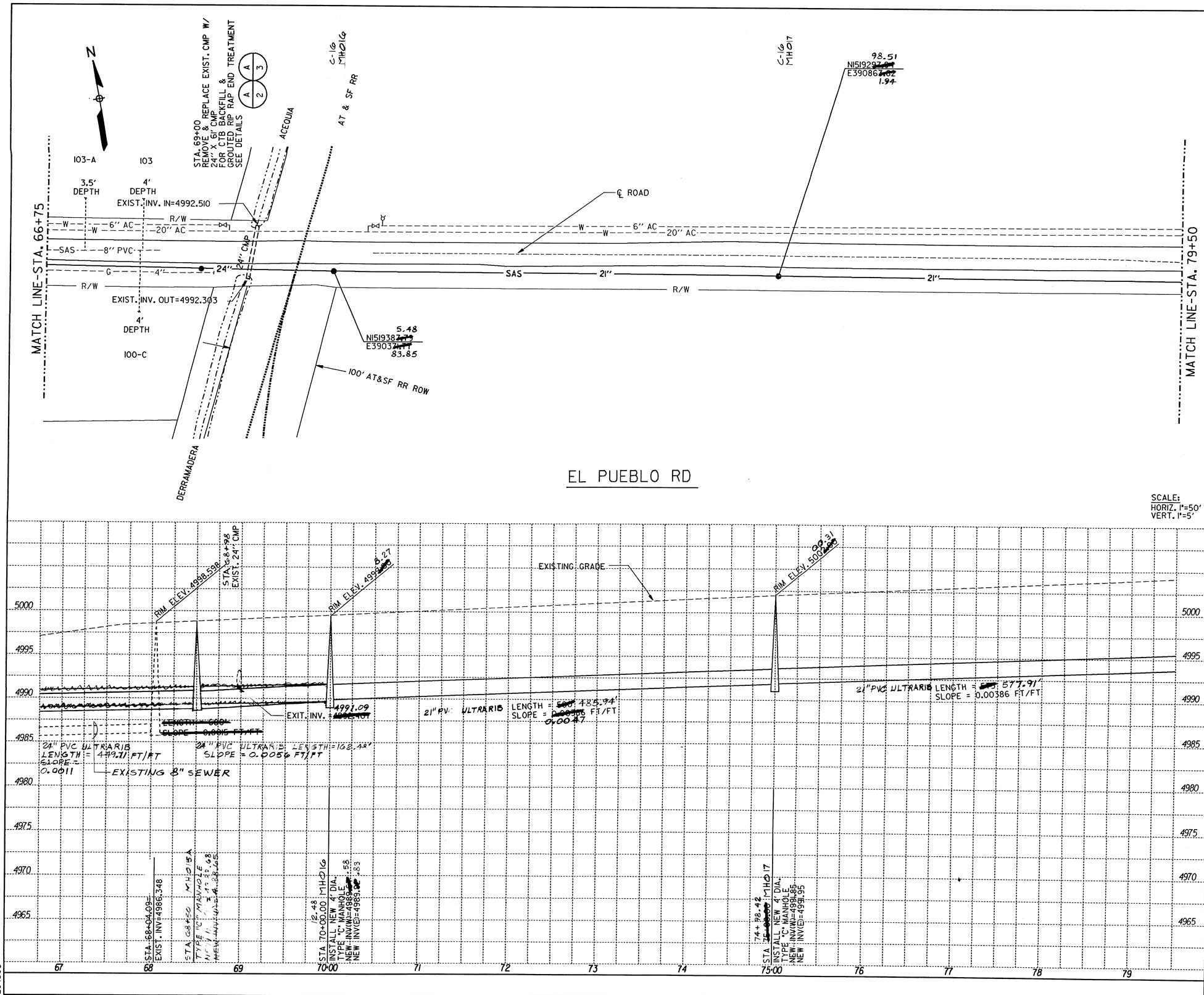
CITY OF ALBUQUEROUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B. J. Brodsky	2-9-95	Water		
Transportation	N/A		Waste Water		
Hydrology	N/A		BCPWD		

DRAWING NO.	MAP NO.	SHEET	OF
4778.90	C-16	8	15

SCANNED BY
BY LASON



294500

PP6.DGN

AS BUILT INFORMATION		
CONTRACTOR	DATE	
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE

BENCH MARKS

ELEV. 4993.537

5-C-15

STANDARD ACS. ALUMINUM CAP STAMPED '5-C15 1985', SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 4 6 7 7 8 9 9 10 10 9 9 16

RECORD SET

David J. Larrow
5-23-96

HN
Holmes & Narver

Greiner, Inc.

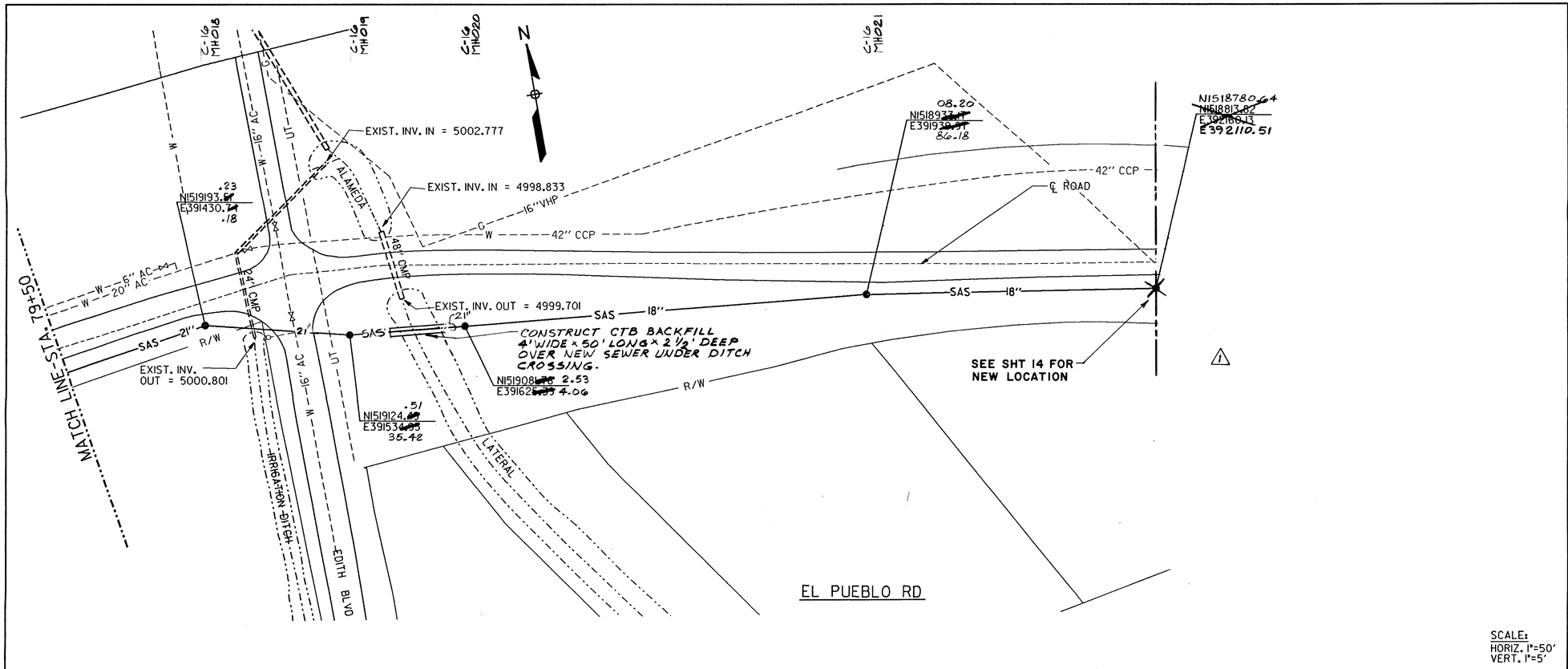
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

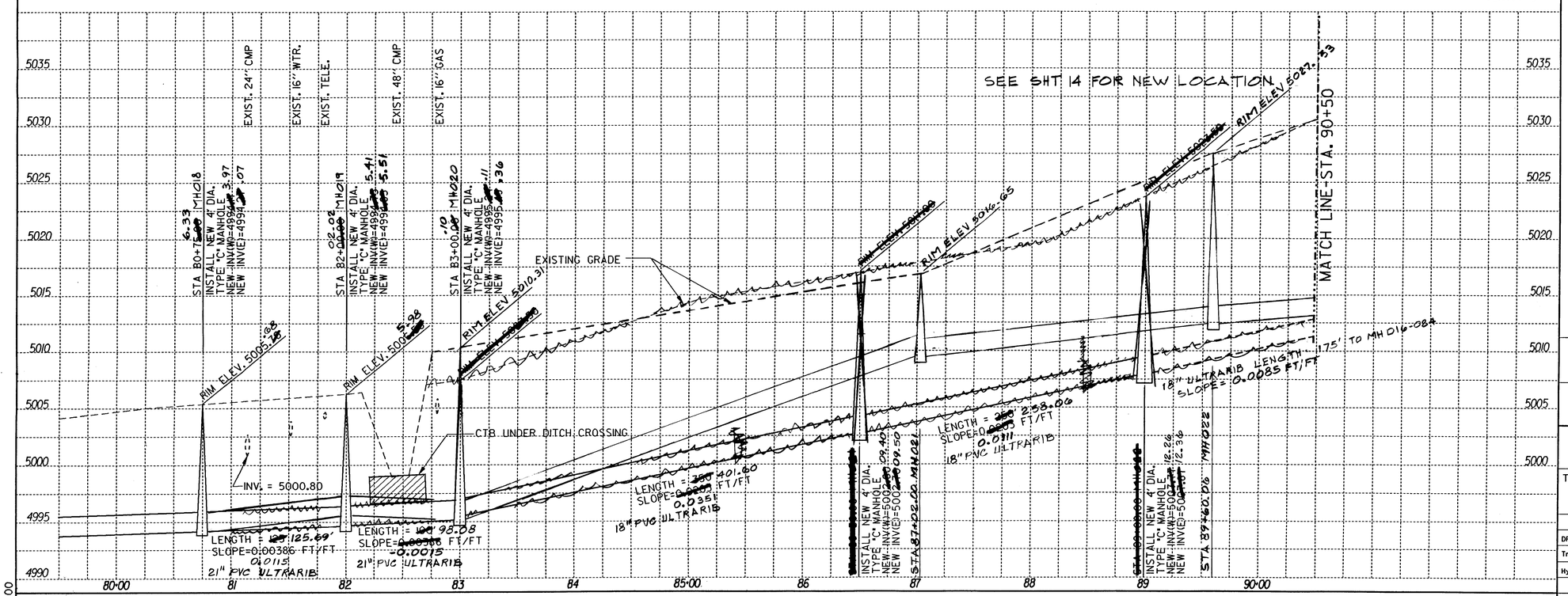
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Hoolsby	2-9-95	Water		
Transportation	N/A		Waste Water	G.F. Loesch	2/8/95
Hydrology	N/A		BCPWD		8/21/95

DRAWING NO.	MAP NO.	SHEET	OF
4778.90	C-16	9	15

SCANNED BY
BY LASON



SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



294500

PP7.DGN

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE

BENCH MARKS

5-C-15 ELEV. 4993.537

STANDARD ACS, ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

ENGINEER'S SEAL

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4778.90 1 10 12

RECORD SET
David J Larson
5-23-96

HN
Holmes & Narver

Greiner, Inc.

NO.	DATE	REMARKS	BY
1	7/17/95	GRIT CHAMBER LAYOUT	DJL

REVISIONS

DESIGN

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

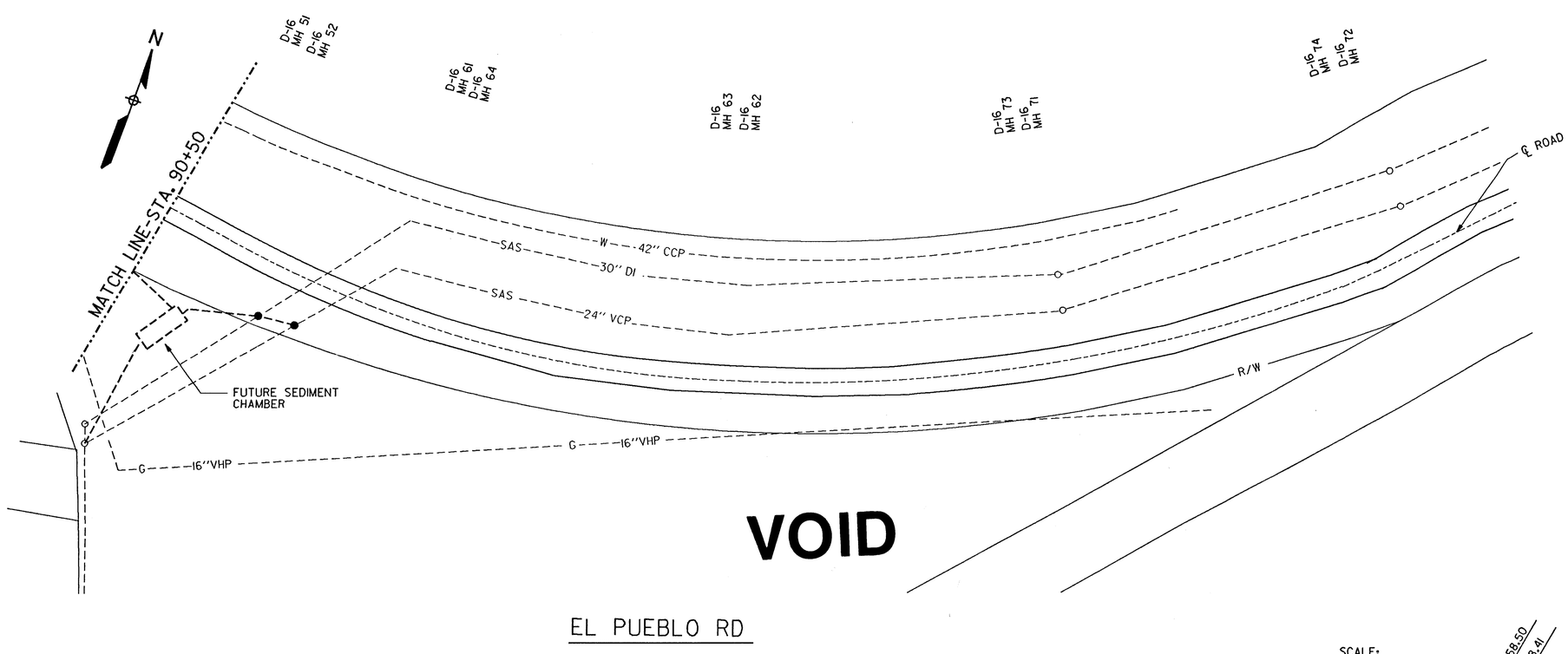
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EL PUEBLO RD. SEWER DIVERSION
PLAN & PROFILE

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman		2-9-95	Water		
Transportation	N/A		Waste Water		2/10/95
Hydrology	N/A		BCPWD		2/21/95

DRAWING NO.	MAP NO.	SHEET	OF
4778.90	C-16	10	15

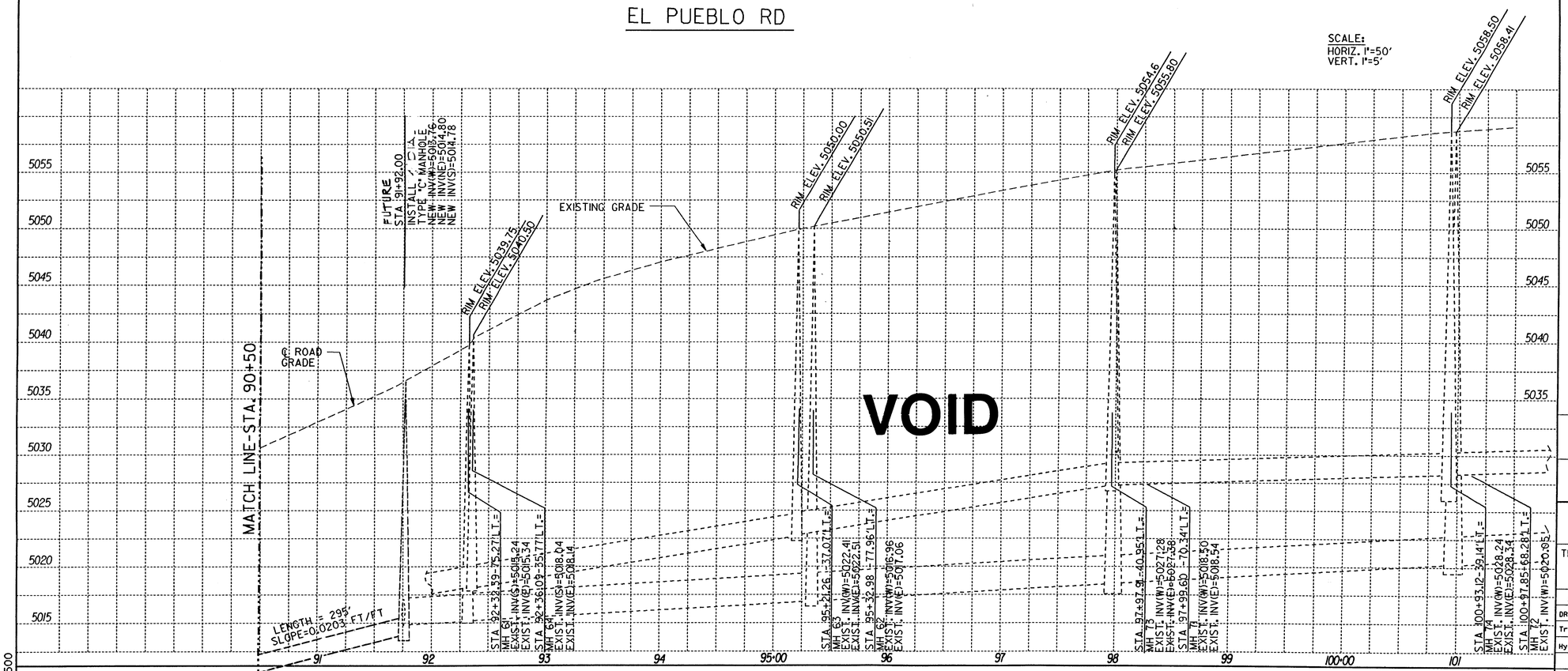
SCANNED BY
BY LASON



VOID

EL PUEBLO RD

SCALE:
HORIZ. 1"=50'
VERT. 1"=5'



VOID

294500

PP8.DGN

SURVEY INFORMATION FIELD NOTES		
NO.	BY	DATE
1	GRIENER INC.	11/94

BENCH MARKS	
5-C15	ELEV. 4993.537
STANDARD ACS, ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.	

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAKED BY	
INSPECTOR ACCEPTANCE	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEW MEXICO No. 4956 LARRY D. LARROW

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 - 4 7 7 8 . 9 0 1 1 9 6

RECORD SET
David J. Larson
5-23-96

VOID

HN Holmes & Narver

Greiner, Inc.

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: L. LOSACK DATE 1/95
DRAWN BY: L. LOSACK DATE 1/95
CHECKED BY: D. LARROW DATE 1/95

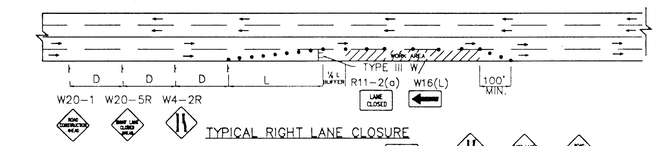
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EL PUEBLO RD. SEWER DIVERSION PLAN & PROFILE

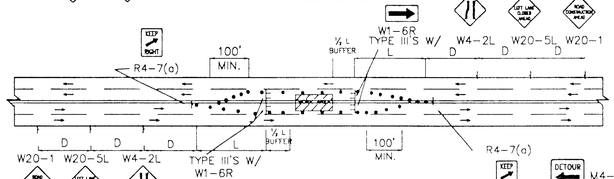
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman	B.J. Brodsky	2-9-95	Water		
Transportation	N/A		Waste Water		2/10/95
Hydrology	N/A		BCPWD		8/10/95

DRAWING NO.	MAP NO.	SHEET	OF
4778.90	D-16 & C-16	11	15

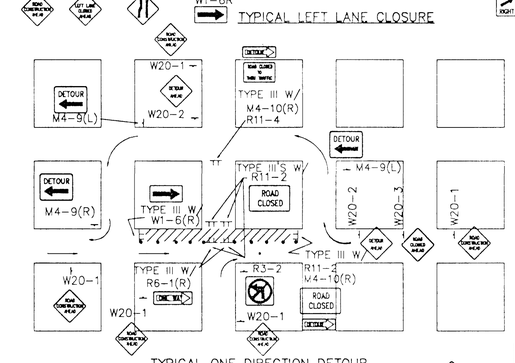
SCANNED BY
BY LASON



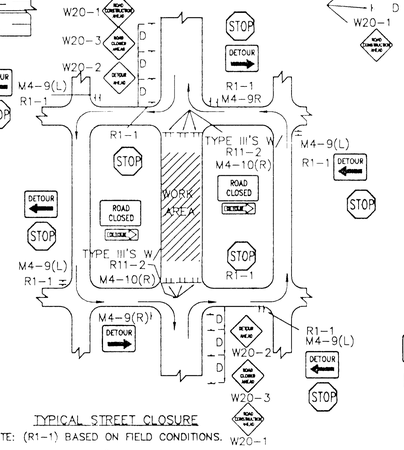
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE

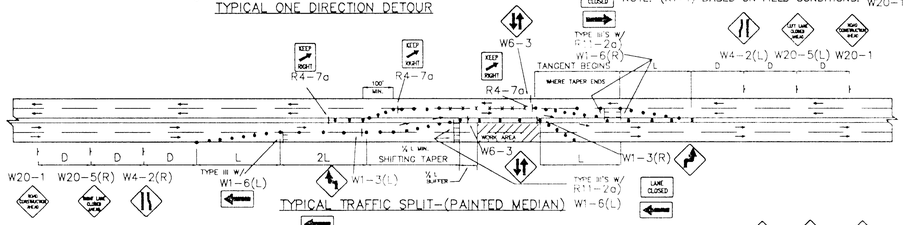


TYPICAL ONE DIRECTION DETOUR

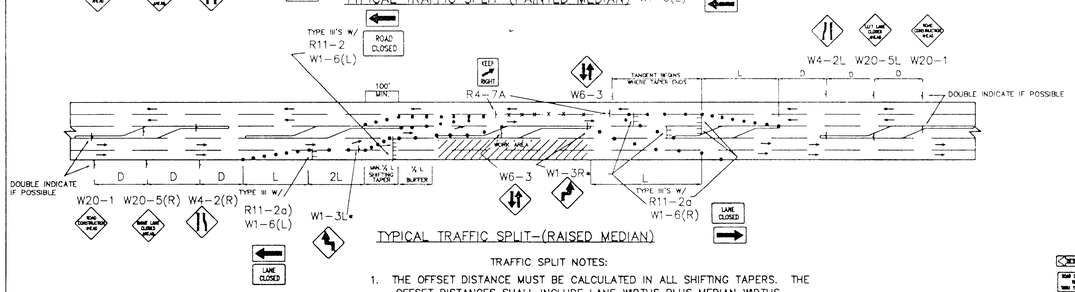


TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.



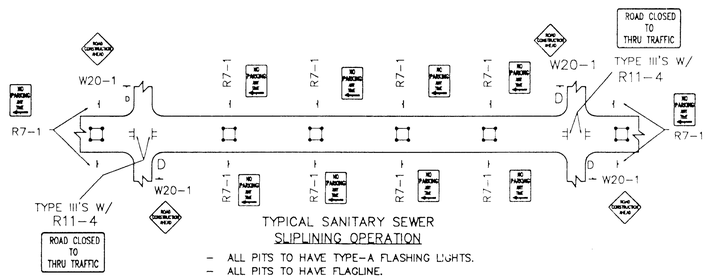
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

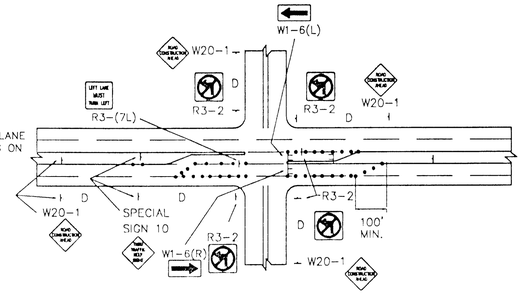
TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. ½ L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF ½ L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE 1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

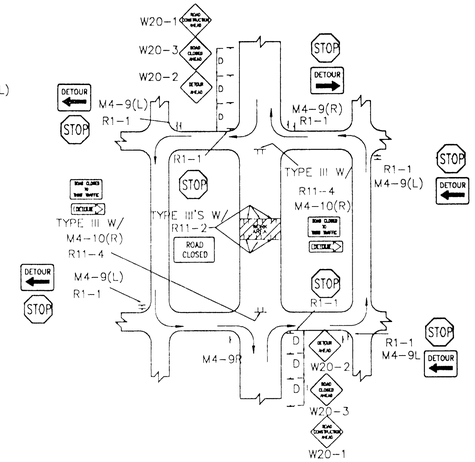
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.



NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.

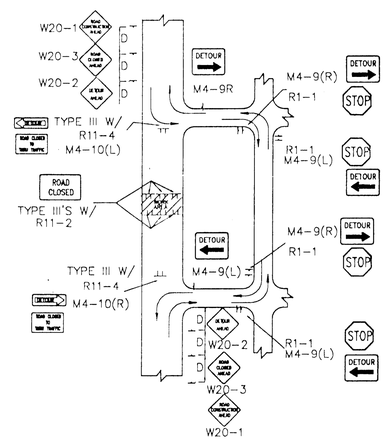
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



TYPICAL MID-BLOCK CLOSURE

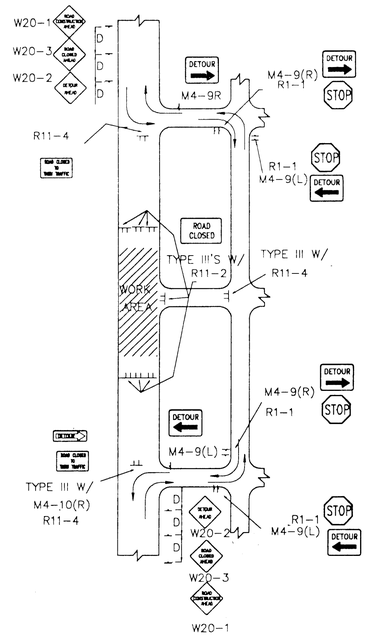
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

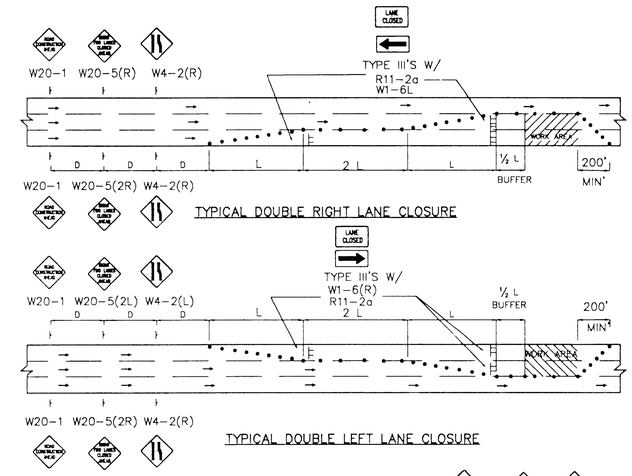
David J. Lanon
5-23-96



TYPICAL STREET CLOSURE

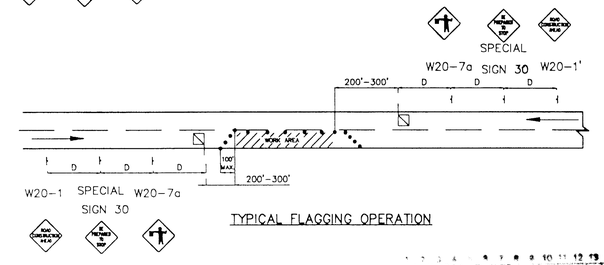
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

RECORD SET



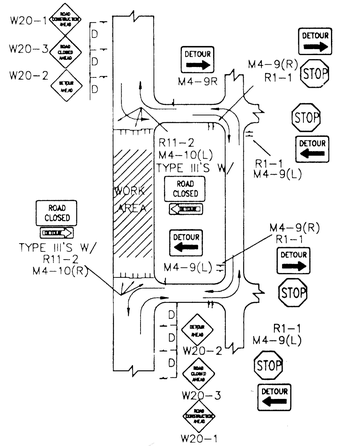
TYPICAL DOUBLE RIGHT LANE CLOSURE

TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION

26-4778.90 1296



TYPICAL STREET CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

AS BUILT INFORMATION
CONTRACTOR / DATE
WORK STAKED BY / DATE
INSPECTOR'S ACCEPTANCE BY / DATE
FIELD DRAWINGS CORRECTED BY / DATE
MICRO-FILM INFORMATION
RECORDED BY / DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. / BY / DATE

SEAL

ENGINEER'S SEAL
RICARDO B. ROYBAL
NEW MEXICO
8983
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY RICARDO ROYBAL, P.E. DATE NOV. 1991
DRAWN BY C.A.D.D./M.L.B./A.F.V. DATE NOV. 1991
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **EL PUEBLO RD. SEWER DIVERSION**

TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Hardaway	2-9-95	WATER		
TRANSPORTATION	N/A		WASTE WATER		2/10/95
HYDROLOGY	N/A				2/10/95

PROJECT NO.	MAP NO.	SHEET	OF
4778.90		12	15

Greiner, Inc. | HN Holmes & Narver

05-13-92
CTCS1102.DWG

SCANNED BY
BY LASON

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 24 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

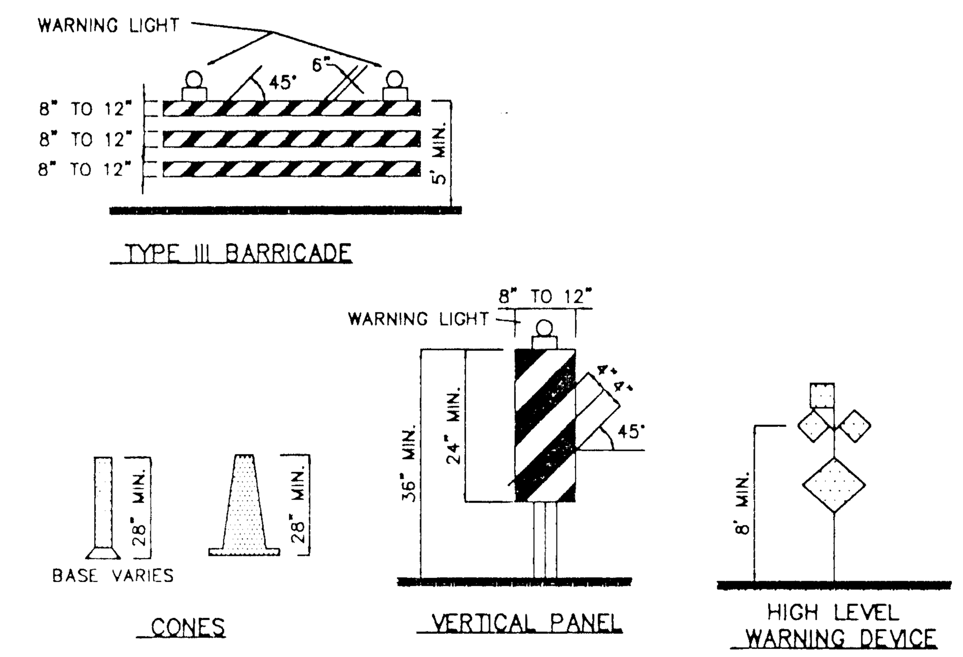
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
   1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
   2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
   3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

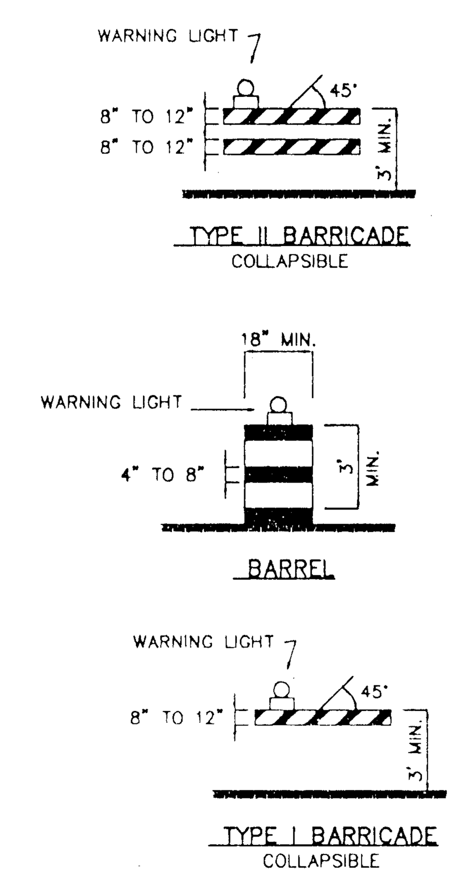
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

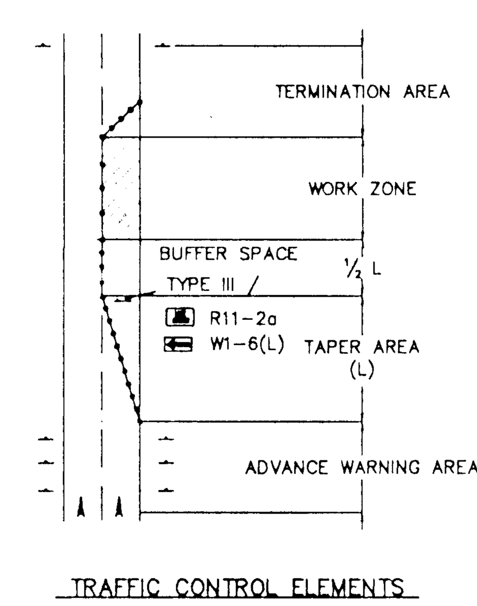
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES







LEGEND

(hatched)	WORK AREA
•	BARRICADE – TYPE I, TYPE II, OR BARREL
┤	BARRICADE – TYPE III
X	VERTICAL PANEL
┤	WARNING SIGN
D	DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
⊠	FLAGMAN POSITION
S	SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
L	TAPER LENGTH – SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	MINIMUM DISTANCE IN FEET FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

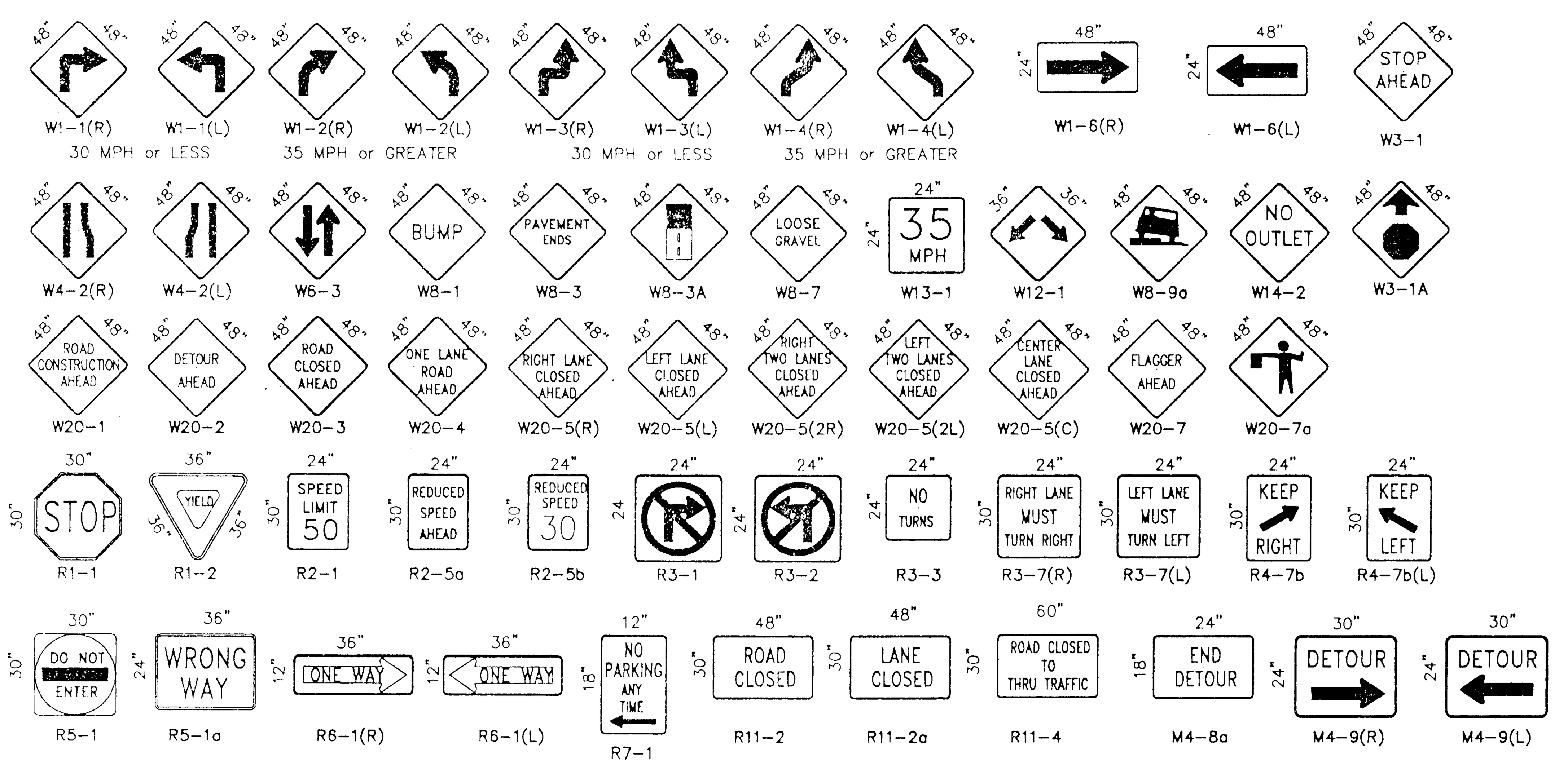
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	½ L MINIMUM
SHOULDER TAPER	½ L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

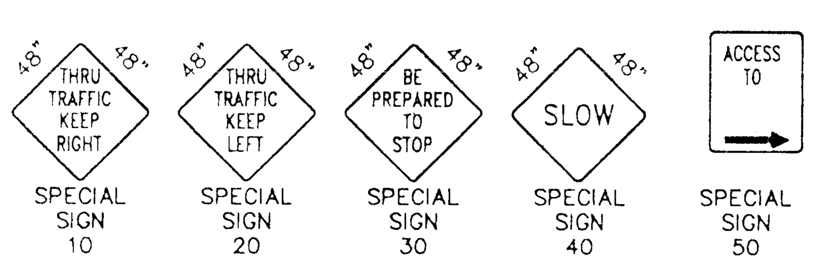
TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

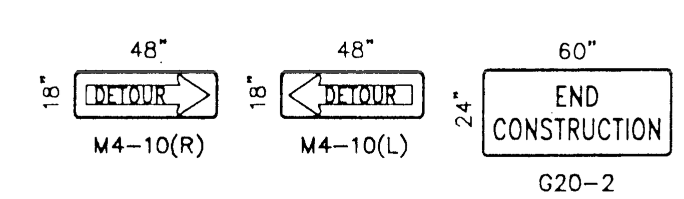
SIGN FACE DETAILS





ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



26-4778.90 1396

David J. Larson
5-23-96

RECORD SET

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION: RECORDED BY / DATE / NO.

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES: NO. / BY / DATE

ENGINEER'S SEAL

REVISIONS: NO. / DATE / REMARKS / BY

DESIGN		
DESIGNED BY	RICARDO ROYBAL P.E.	DATE AUG. 1992
DRAWN BY	CADD,- A.F.V.	DATE AUG. 1992
CHECKED BY		DATE

Greiner, Inc. — HN Holmes & Narver

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **EL PUEBLO RD. SEWER DIVERSION**

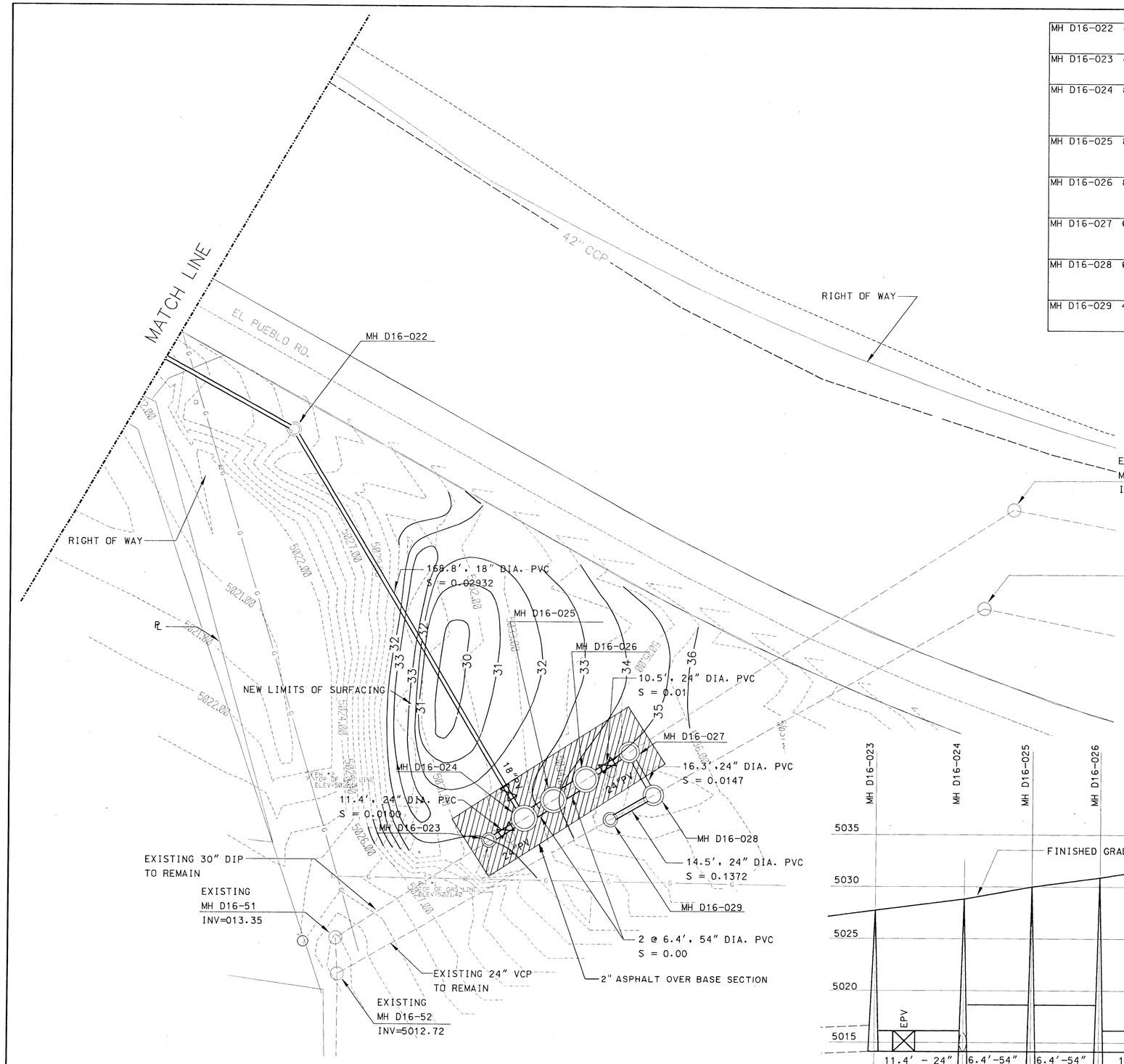
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.J. Goolsby	2-9-95	WATER	(signature)	2/8/95
TRANSPORTATION	N/A		WASTE WATER		
HYDROLOGY	N/A		BCPWD	(signature)	2/21/95

PROJECT NO.	MAP NO.	SHEET	OF
4778.90		13	15

08-11-92
CTCSTD1.DWG (1=1')

SCANNED BY
BY LASON

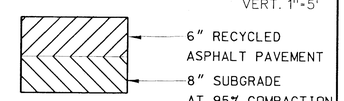


MH D16-022 4'DIA RIM = 5025.5 INV. W = 5008.80 INV. SE = 5008.90	N = 1518785.20 E = 392209.15
MH D16-023 4'DIA RIM = 5029.0 INV. SW = 5013.70 INV. NE = 5013.80	N = 1518627.47 E = 392285.16
MH D16-024 8'DIA RIM = 5030.0 INV. NE = 5013.85 INV. NW = 5013.85 INV. SW = 5013.90 SILT INV. = 5009.85	N = 1518635.91 E = 392298.71
MH D16-025 8'DIA RIM =5031.0 INV. SW = 5013.85 INV. NE = 5013.85 SILT INV. = 5009.85	N = 1518643.01 E = 392309.90
MH D16-026 8'DIA RIM =5032.0 INV. SW = 5013.85 INV. NE = 5013.85 SILT INV. = 5009.85	N = 1518651.00 E = 392322.34
MH D16-027 6'DIA RIM = 5033.0 INV. SW = 5013.96 INV. NE = 5014.06 INV. SE = 5014.06	N = 1518661.48 E = 392339.04
MH D16-028 6'DIA RIM =5034.0 INV. NE = 5014.78 INV. NW = 5014.30 INV. SW = 5016.55	N = 1518644.98 E = 392348.51
MH D16-029 4'DIA RIM =5033.0 INV. NE = 5014.56 INV. SW = 5014.41	N = 1518635.53 E = 392331.91

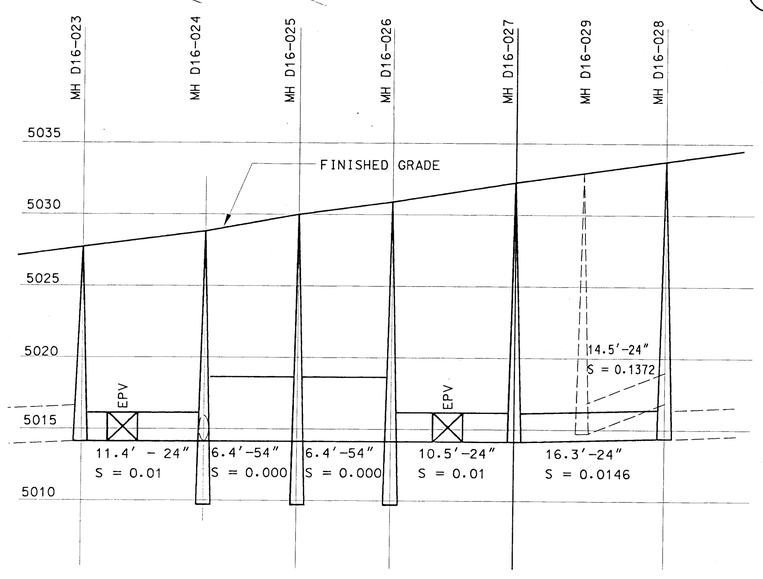
LEGEND

	NEW	EXISTING
ECCENTRIC PLUG VALVE	EPV	
MANHOLE		
SEWER PIPE		
CONTOUR		

SCALE:
HORIZ. 1"=20'
VERT. 1"=5'



BASE SECTION 1/14



NOTES: ALL NEW MANHOLES SHALL BE TYPE C OR E.

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE

BENCH MARKS
5-C-15
ELEV. 4993.537

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

STANDARD ACS ALUMINUM CAP STAMPED "5-C15 1985", SET 0.15' ABOVE GROUND.

LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

ENGINEER'S SEAL

7-17-95

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
ACL 4778.90 1 4976

RECORD SET
David J. Larrow
5-23-96

HN
Holmes & Narver

Greiner, Inc.

NO.	DATE	REMARKS	BY
1	7/17/95	GRIT CHAMBER LAYOUT	DJL

REVISIONS

DESIGN

DESIGNED BY: R.L. BELL — DATE 12/95
DRAWN BY: J.L. MOORE — DATE 12/95
CHECKED BY: D.J. LARROW — DATE 12/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

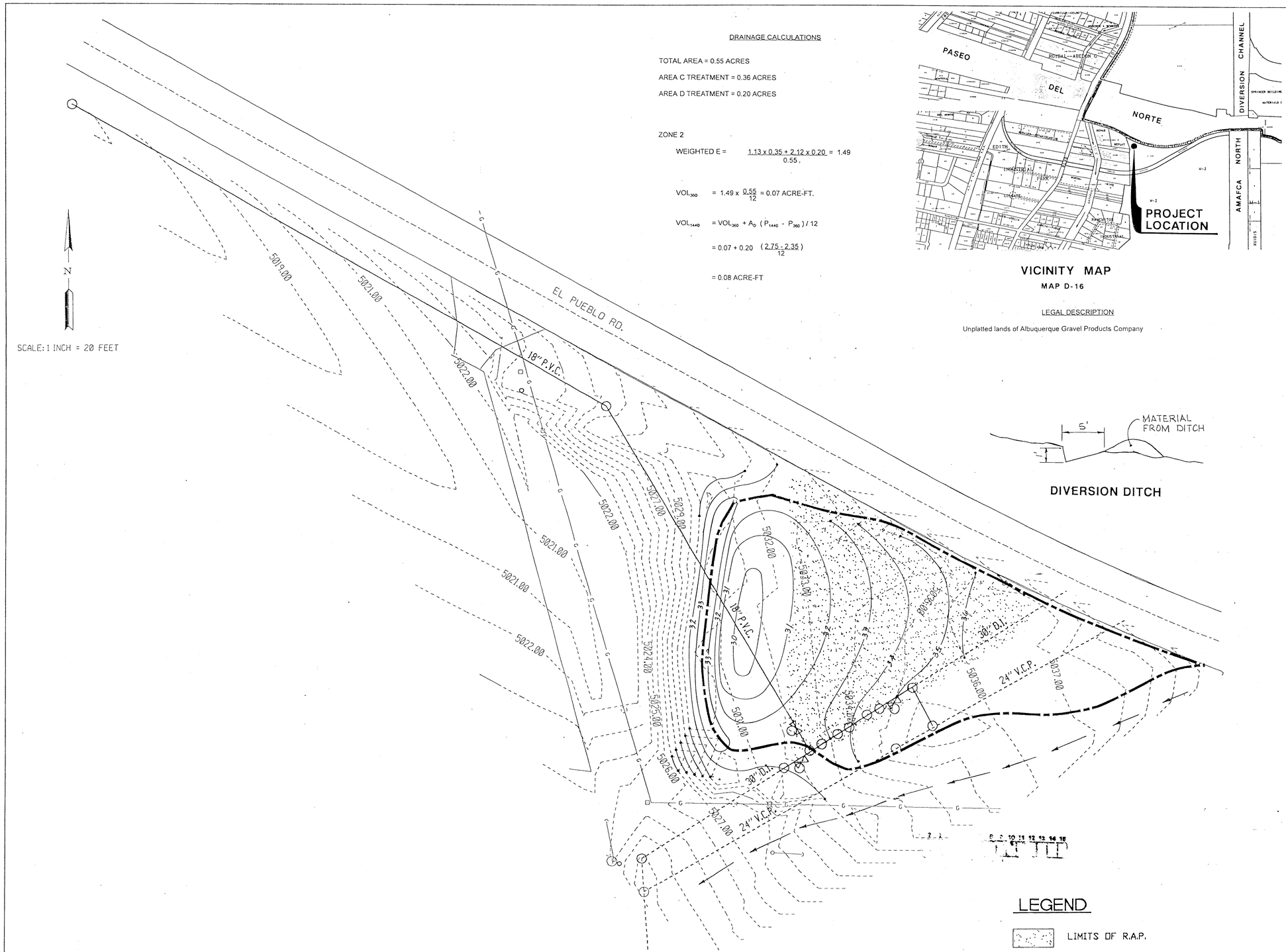
TITLE: EL PUEBLO RD. SEWER DIVERSION
GRIT CHAMBER LAYOUT

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology			BCPWD		

DRAWING NO. 4778.90 | MAP NO. D-16 | SHEET 14 OF 15

NEWGRITC.DGN

SCANNED BY
BY LASON



DRAINAGE CALCULATIONS

TOTAL AREA = 0.55 ACRES

AREA C TREATMENT = 0.36 ACRES

AREA D TREATMENT = 0.20 ACRES

ZONE 2

WEIGHTED E = $\frac{1.13 \times 0.35 + 2.12 \times 0.20}{0.55} = 1.49$

$VOL_{360} = 1.49 \times \frac{0.55}{12} = 0.07$ ACRE-FT.

$VOL_{1440} = VOL_{360} + A_D\,(P_{1440} - P_{360})\,/\,12$

$= 0.07 + 0.20\ \frac{(2.75 - 2.35)}{12}$

$= 0.08$ ACRE-FT

VICINITY MAP

MAP D-16

LEGAL DESCRIPTION

Unplatted lands of Albuquerque Gravel Products Company

DIVERSION DITCH

AS BUILT INFORMATION

CONTRACTOR — DATE

WORK STAKED BY

INSPECTOR'S ACCEPTANCE BY — DATE

FIELD VERIFICATION BY — DATE

DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

BENCH MARKS

ELEV. 4993.537

5-C-15

STANDARD ACS. ALUMINUM CAP STAMPED "5-C15 1985" SET 0.15' ABOVE GROUND. LOCATED 0.3 MILES WEST OF THE INTERSECTION OF FOURTH STREET AND EL PUEBLO ROAD.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	GRIENER INC.	11/94

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO — No. 4290 — DAVID J. LARROW

12-20-95

2.6-47.7 8L 9.0 15 9 16

RECORD SET

David J Larrow

5-23-96

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY: R.L. BELL — DATE 12/95

DRAWN BY: J.L. MOORE — DATE 12/95

CHECKED BY: D.J. LARROW — DATE 12/95

Holmes & Narver

Greiner, Inc.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: EL PUEBLO RD. SEWER DIVERSION
GRIT CHAMBER GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC Chairman			Water		
Transportation			Waste Water		
Hydrology			BCPWD		

DRAWING NO. 4778.90 | MAP NO. D-16 | SHEET 15 OF 15

SCANNED BY BY LASON