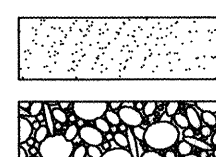


LEGEND

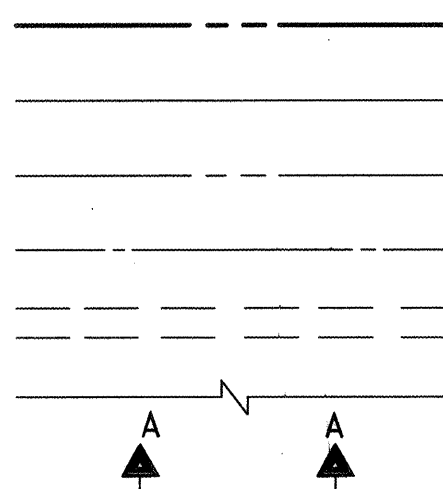
MATERIALS

CONCRETE
RIP-RAP



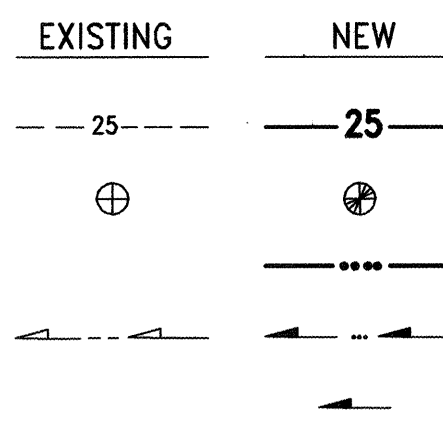
LINES

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



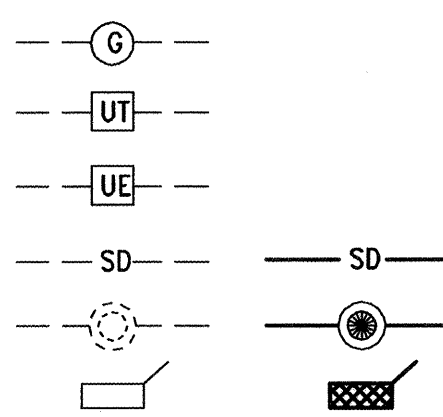
EARTHWORK

CONTOUR LINE
SPOT ELEVATION
PROJECT / PHASE BOUNDARY
FLOWLINE
DIRECTION OF FLOW



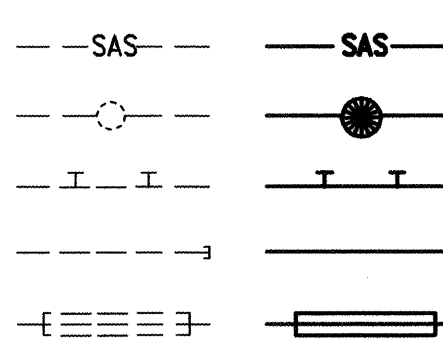
MISCELLANEOUS UTILITIES

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



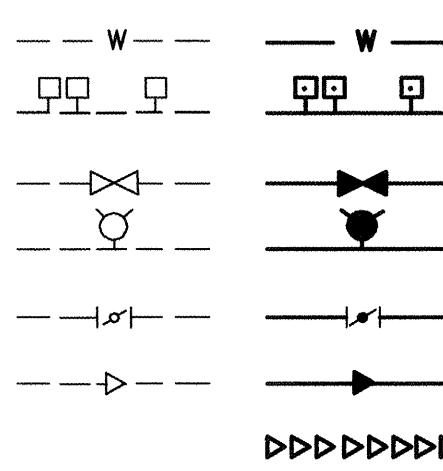
SANITARY SEWER

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



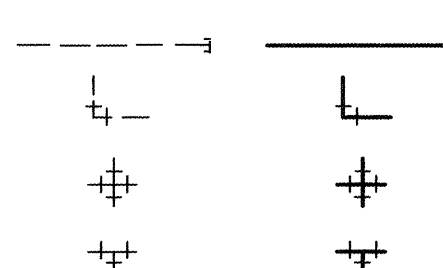
WATER

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



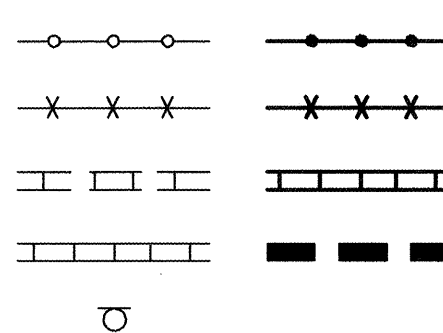
WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE



MISCELLANEOUS

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



CONSTRUCTION PLANS for LAFARGE CHAPPELL ROAD N.E.

SANITARY SEWER LINE EXTENSION ALBUQUERQUE, NEW MEXICO MARCH, 2000

RECORD DRAWING

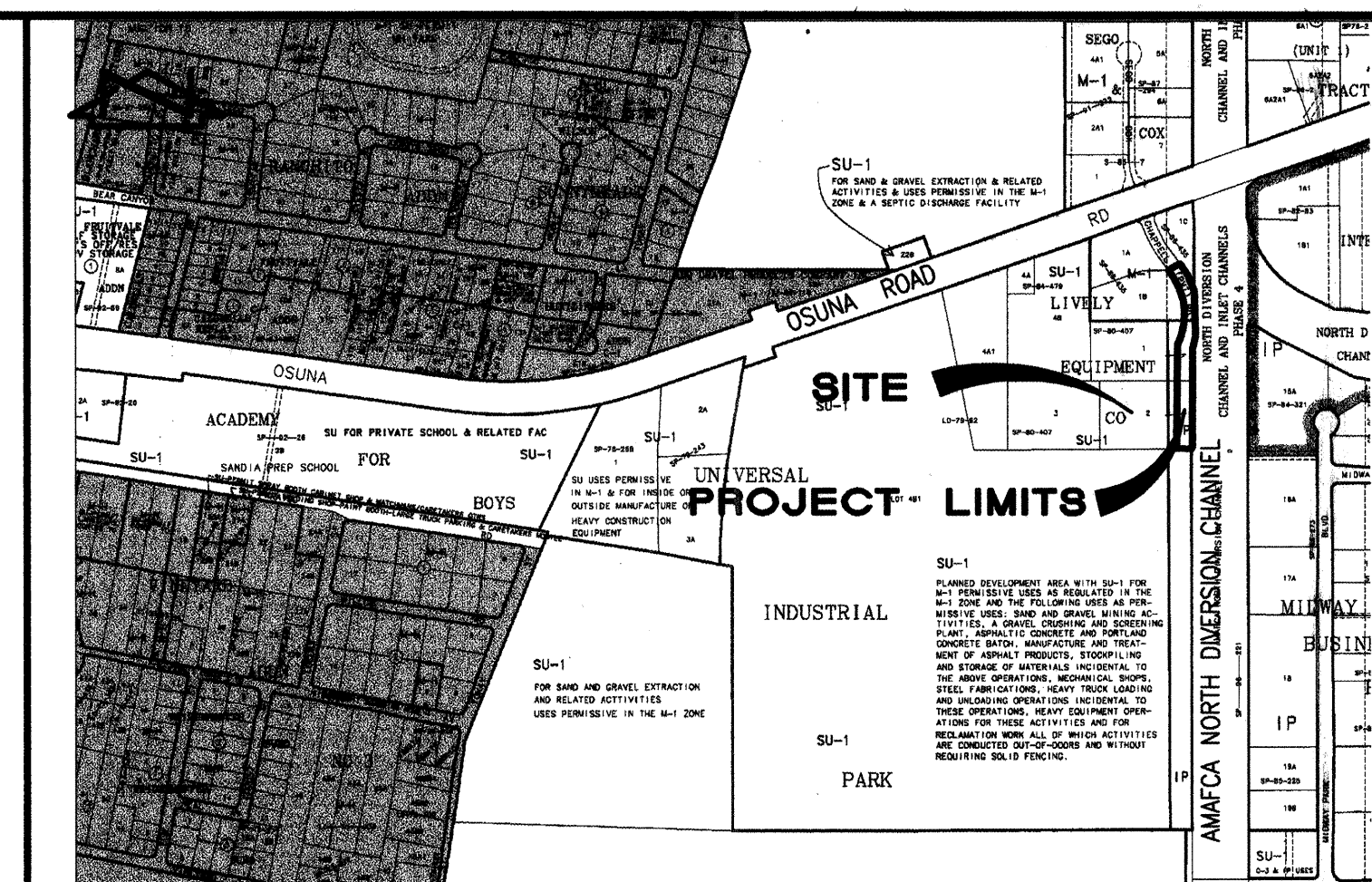
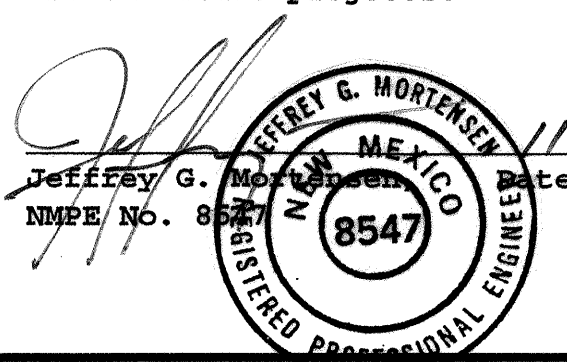
INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	PLATS
3	SITE PLAN; SECTIONS AND DETAILS
4	SANITARY SEWER LINE EXTENSION STA 10+69.18 TO STA 12+90.61
5	SANITARY SEWER LINE EXTENSION STA 12+90.61 TO STA 15+67.68
6	SANITARY SEWER LINE EXTENSION STA 15+67.68 TO STA 18+79.78
7	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
8	TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES

APPROVAL OF AS-BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 7/16/01

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



VICINITY MAP
SCALE: 1" = 750'

E-16

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS-PUBLIC WORKS CONSTRUCTION-1986 - UPDATE NO. 6.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT (STATEWIDE) FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEEPENED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION. THE WATER SYSTEM DIVISION PHONE NUMBER IS 857-8200.
- CONTRACTOR SHALL NOTIFY THE CITY SURVEYOR NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. 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 SPECIFICATIONS.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.
- 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.
- CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.



2000.014.4

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1-8			08/00				
ENGINEERS STAMP & SIGNATURE							
APPROVALS				ENGINEER			
ORC Chairman				DATE			
Transportation				3-20-00			
Water/Wastewater				3-20-00			
Hydrology				3-30-00			
C.I.P.				3-30-00			
Const. Mngmt.				3-17-00			
Const. Coord.				3-17-00			
City Project No.				635881			
SHEET				OF			
1				8			

981-113

TALOS LOG No. SP-11-80-826

C17
136

SUMMARY PLAT

BEING A REPLAT OF TRACT 2 OF LANDS OF LIVELY EQUIPMENT CO., INC.

NOVEMBER, 1980

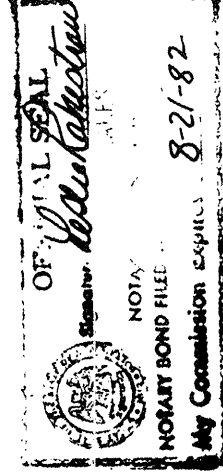
LEGAL DESCRIPTION

tract of land situate within Section 27, T 11 N, R 3 E, N.M.P.M., as projected, within the Elena Gallegos Grant, Bernalillo County, New Mexico, being Tract 2 of the Lands of the Lively Equipment Co., Inc., as the same is shown and designated on the Plat thereof filed in the office of the County Clerk of Bernalillo County, New Mexico, on October 17, 1978, and being more particularly described as follows:

Beginning at the Southeast corner of the tract herein described, said corner being the southeast corner of the aforementioned Tract 2, from which point the corner common to Sections 27, 26, 34 & 35, T 11 N, R 3 E, N.M.P.M., Bernalillo County, New Mexico, as projected, bears S 14°06'56" E, 1762.76 feet, thence,

S 89°50'00" W, 831.94 feet; thence,
N 00°10'00" W, 838.00 feet; thence,
N 70°34'41" E, 397.12 feet; thence,
S 00°10'00" E, 379.79 feet; thence,
N 89°50'00" E, 472.05 feet; thence,
S 00°10'00" E, 68.75 feet; thence,
S 16°31'41" W, 52.20 feet; thence,
S 00°10'00" E, 470.42 feet to the point of beginning of the tract herein described and containing 13.9897 acres (609,391 square feet), more or less.

Surveyed and plotted as shown hereon is with the free consent of, and in accordance with the wishes and desires of, the undersigned owner and proprietor.



W. E. RICE, President
LIVELY EQUIPMENT CO., INC.
STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS

SUBSCRIBED AND SWORN to before me this 22nd day of November, 1980,

by W.E. Rice the President of LIVELY EQUIPMENT CO., INC.,

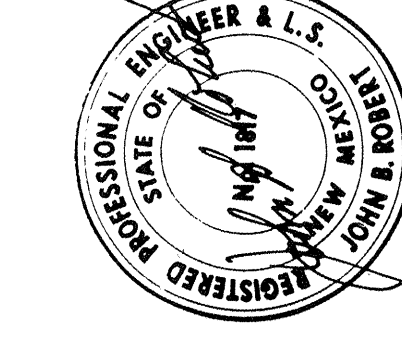
a New Mexico corporation.

My commission expires: August 21, 1982

APPROVAL AND CONDITIONAL ACCEPTANCE, as specified by Sub-Section 22.A.20 of the Albuquerque Subdivision Ordinance.

V. Lynn L. G. Kay SP-80-407 11/25/80 E-16-97
Planning Director, City of Albuquerque Date

Dickens Siler
City Engineer, City of Albuquerque Date 11-25-80

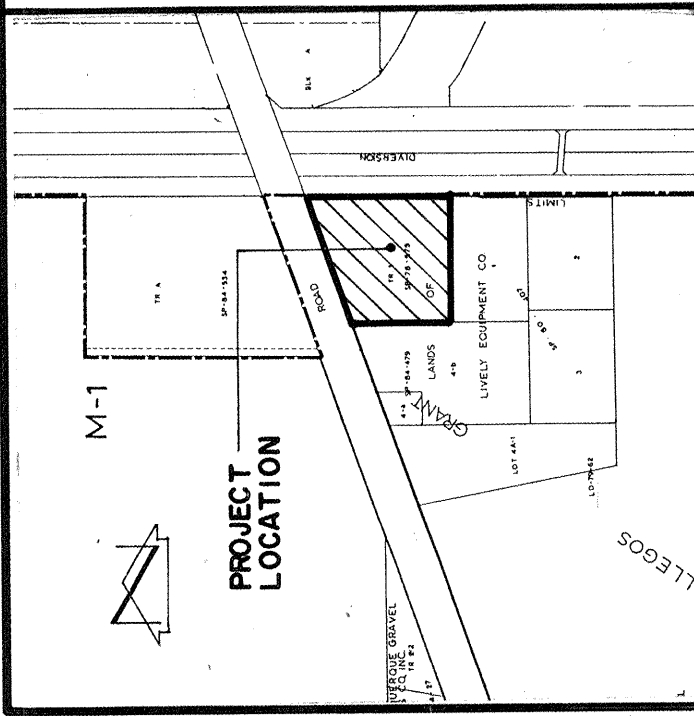


SURVEYOR'S CERTIFICATE
I, John B. Robert, do certify that I am a Registered Professional Engineer and Land Surveyor, licensed in the State of New Mexico, and that this plat was prepared by me or under my supervision, and is true and correct to the best of my belief and knowledge.

John B. Robert
John B. Robert, P.E. & L.S. - No. 1817

ANDREWS, ASBURY & ROBERT, INC.
ALBUQUERQUE CONSULTING ENGINEERS
80-222 NEW MEXICO

SP-03-19-1419



VICINITY MAP
SCALE: 1" = 800'

- Notes:
- No field work was performed.
 - No street mileage was created.
 - All distances are ground distances.
 - Site located within Section 27.
 - Bearing base is plat of "Lands of Lively Equipment Co., Inc." filed October 17, 1978, Book 46, Page 268.
 - The purpose of this plat is to subdivide Tract 1 into four lots plus grant the private drainage easement (LOT 1-B) for acquisition by the County of Bernalillo at a later date.

LOT 4 b
LANDS OF LIVELY EQUIP CO. INC.
FILED 12-14-85, C26-28

2000.04.4

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING
C1	47.12	90°00'00"	48.69	50.00	S 64°25'18" E
C2	27.21	3°45'34"	39.23	43.00	N 25°34'41" E
C3	47.12	90°00'00"	48.69	50.00	N 25°34'41" E

PLAT OF LOTS 1-A THROUGH 1-D

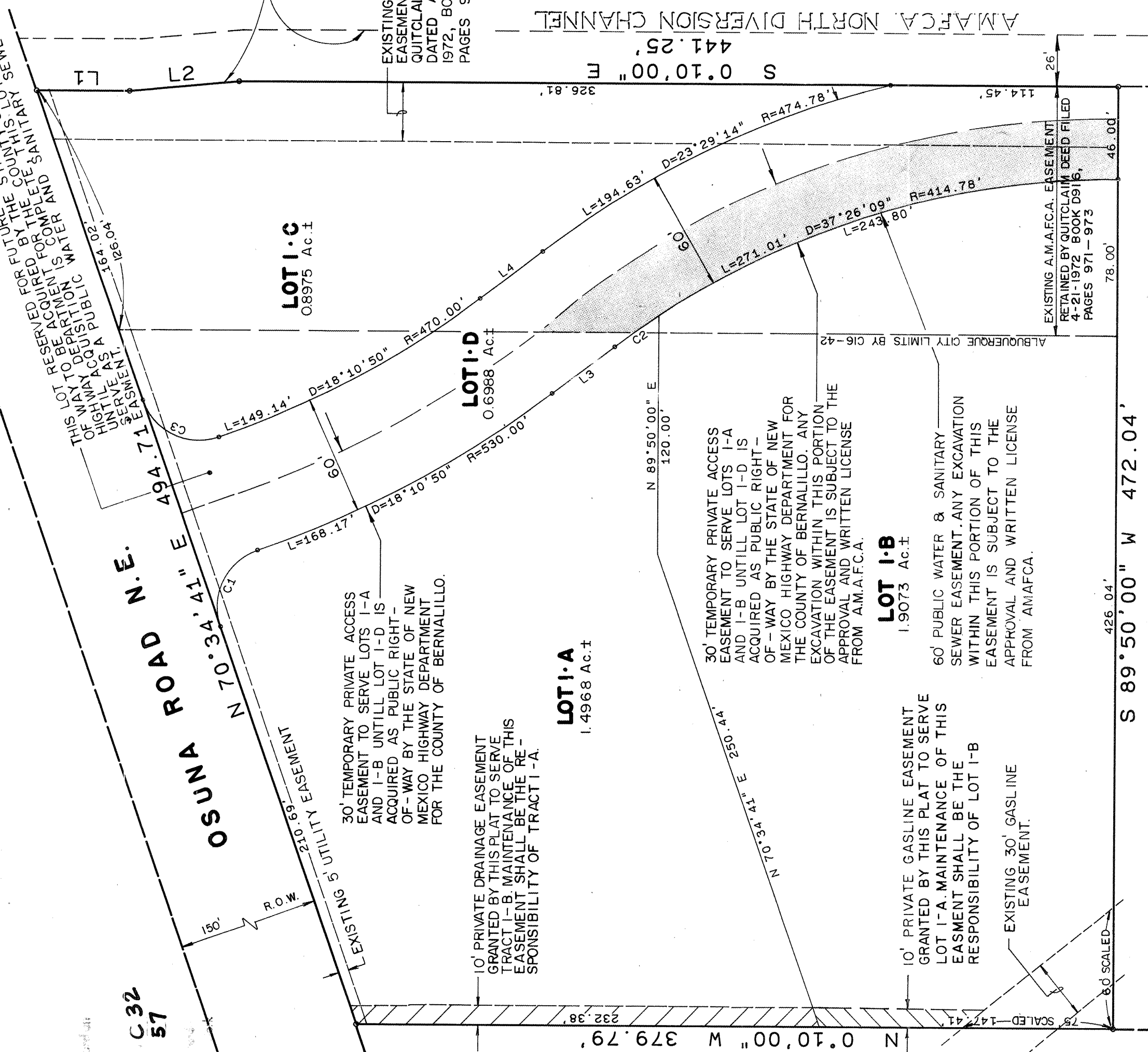
A REPLAT OF

TRACT 1, LANDS OF LIVELY EQUIPMENT CO. INC. ALBUQUERQUE, NEW MEXICO

& BERNALILLO COUNTY, NEW MEXICO

A certain tract of land located within Bernalillo County, New Mexico, comprising Tract 1, Lands of Lively Equipment Company, Inc., as shown on the plat filed in the Office of the County Clerk of Bernalillo County, New Mexico on October 17, 1978, Book A-6, Page 268, and being more particularly described as follows:

Beginning at the northwest corner of the parcel herein described being a point on the right-of-way line of the A.M.A.F.C.A. North Division Channel; thence S 00°10'00" E a distance of 46.68 feet along said right-of-way line; thence S 05°21'49" E a distance of 55.23 feet along said right-of-way line; thence S 00°10'00" E a distance of 41.25 feet along said right-of-way line; thence S 89°50'00" W a distance of 472.04 feet; thence N 00°10'00" W a distance of 379.79 feet to the point of beginning and containing 5.0004 acres more or less.

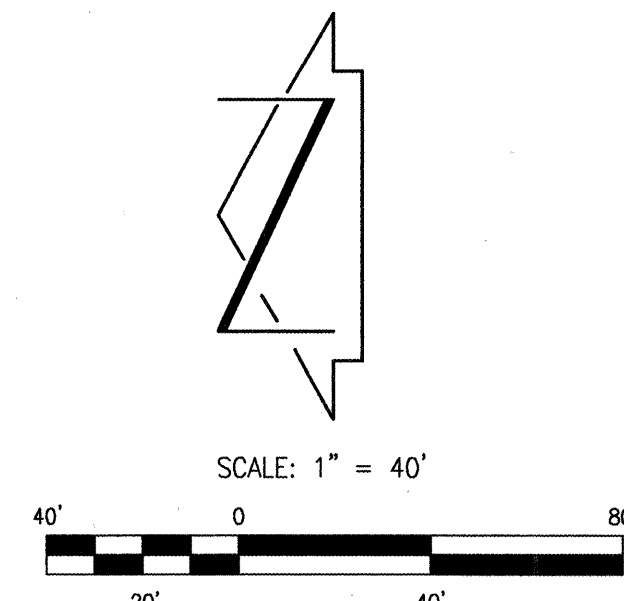


PARCEL 1, L DS OF LIVELY EQUIPMENT CO. INC.
FILED 11-25-80, C17-136

SCANNED BY
MESA REPRO

CURVE	ARC	DELTA	RADIUS	CHORD LENGTH	CHORD BEARING
C1	47.12	90°00'00"	48.69	50.00	S 64°25'18" E
C2	27.21	3°45'34"	39.23	43.00	N 25°34'41" E
C3	47.12	90°00'00"	48.69	50.00	N 25°34'41" E

RECORD DRAWING

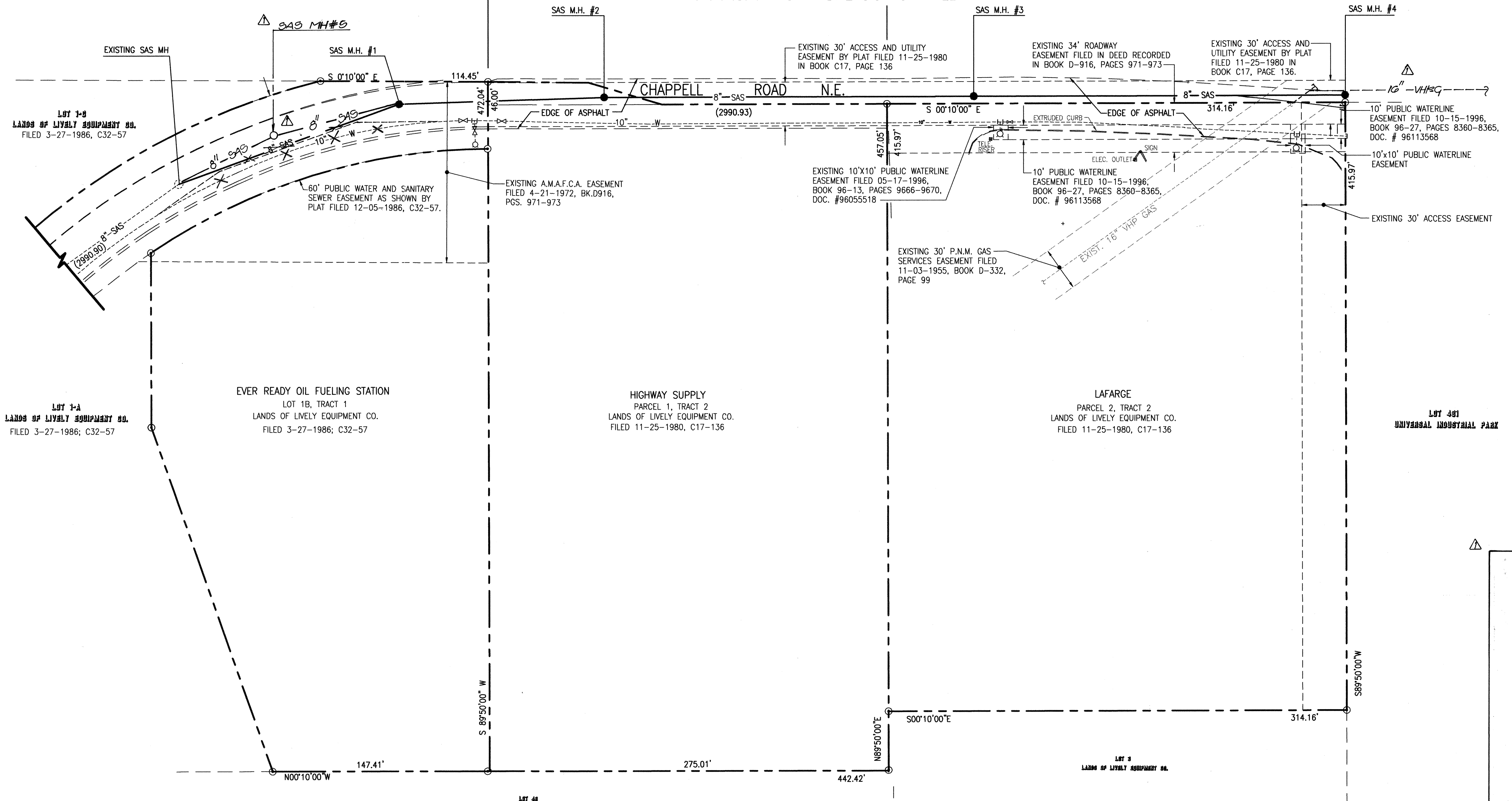


SHEET 4

SHEET 5

SHEET 6

A.M.A.F.C.A. NORTH DIVERSION CHANNEL



LOT 48
LANDS OF LIVELY EQUIPMENT CO.
FILED 12-14-1985, C38-28

TYPICAL PERMANENT PAVING SECTION
(FROM CITY PROJECT NO. 2990.92)
SCALE: 1" = 2'

TYPICAL TEMPORARY PAVING SECTION
(FROM CITY PROJECT NO. 2990.93)
SCALE: 1" = 2'

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPE No. 8547

JEFFREY G. MORTENSEN
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
8547

2000.014.1

Jma JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS & SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
LAFARGE/CHAPPELL ROAD N.E.
SANITARY SEWER LINE EXTENSION
SITE PLAN, SECTIONS AND DETAILS

Design Review Committee APPROVED MAR 30 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED MAY 16 2000 CITY ENGINEER
---	--

City Project No. **635881** Zone Map No. **E-16** Sheet **3** of **8**

AS BUILT INFORMATION			
CONTRACTOR	R.M.C.I.	DATE	07/00
WORK STARTED BY	J.M.A.	DATE	08/00
FIELD ACCEPTANCE BY	M.D. Stachurski	DATE	08/00
DRAWINGS BY	J.M.A.	DATE	03/00
CHECKED BY	J.M.A.	DATE	03/00
RECORDED BY		DATE	
MICRO-FILM INFORMATION			
NO.		DATE	
BENCH MARKS			
STATION IS A STANDARD B.L.M. BRASS CAP SET IN CONCRETE MONUMENT STAMPED 3178 WHICH PROJECTS 1.0' ABOVE GROUND. THE STATION IS LOCATED 5.1 MILES NORTHWEST OF DOWNTOWN ALBUQUERQUE EAST OF THE NORTH DIVERSION CHANNEL AND SOUTH OF OSUNA ROAD NE. TO REACH THE STATION FROM THE INTERCHANGE AT 1-25 AND OSUNA ROAD NE. GO WEST ON OSUNA 1.0 MILES TO ANOTHER DIRT ROAD. THE STATION IS LOCATED LEFT OF THIS POINT. ELEVATION = 5110.406 FEET (M.S.L.D.)			
SURVEY INFORMATION			
FIELD NOTES			
NO.	DATE	BY	
N/A	3/93	J.M.A.	
951172	3/96	J.M.A.	
ENGINEER'S SEAL			
MDS	BY	REMARKS	
NO.	DATE	DESIGN	
Designed By	J.G.M.	Date	02/2000
Drawn By	S.G.H.	Date	02/2000
Checked By	J.G.M.	Date	03/2000



SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES						
NO.	BY	DATE	STATION IS A STANDARD B.I.M. BRASS CAP SET IN CONCRETE		CONTRACTOR	<i>R.M.C.I.</i>
N/A	J.M.A.	3/93	MONUMENT STAMPED <i>37185</i> WHICH PROJECTS 1.0' ABOVE GROUND.		WORK STAMPED BY	<i>J.M.A.</i>
951172	J.M.A.	3/96	THE STATION IS LOCATED 5.1 MILES NORTHEAST OF DOWNTOWN		INSPECTOR'S SIGNATURE BY	<i>M.B.S. / M.B.L.L.T.</i>
			ALBUQUERQUE EAST OF THE NORTH DIVERSION CHANNEL AND SOUTH		FIELD VERIFICATION BY	<i>J.M.A.</i>
			OF OSUNA ROAD NE. TO REACH THE STATION FROM THE INTERCHANGE		RECORDED BY	<i>J.M.A.</i>
			AT 1-25 AND OSUNA ROAD NE, GO WEST ON OSUNA 1.0 MILES TO		DATE	<i>03/00</i>
			ANTHONY DIRT ROAD. THE STATION IS LOCATED LEFT OF THIS POINT.		MICRO-FILM INFORMATION	
			ELEVATION = 5110.406 FEET (M.S.L.D.)		NO.	

2000.014.1⁴

JEFF MORTENSEN & ASSOCIATES, INC.
☐ 6010-B MIDWAY PARK BLVD. N.E.
☐ ALBUQUERQUE ☐ NEW MEXICO 87109
☐ ENGINEERS ☐ SURVEYORS (505) 345-4250

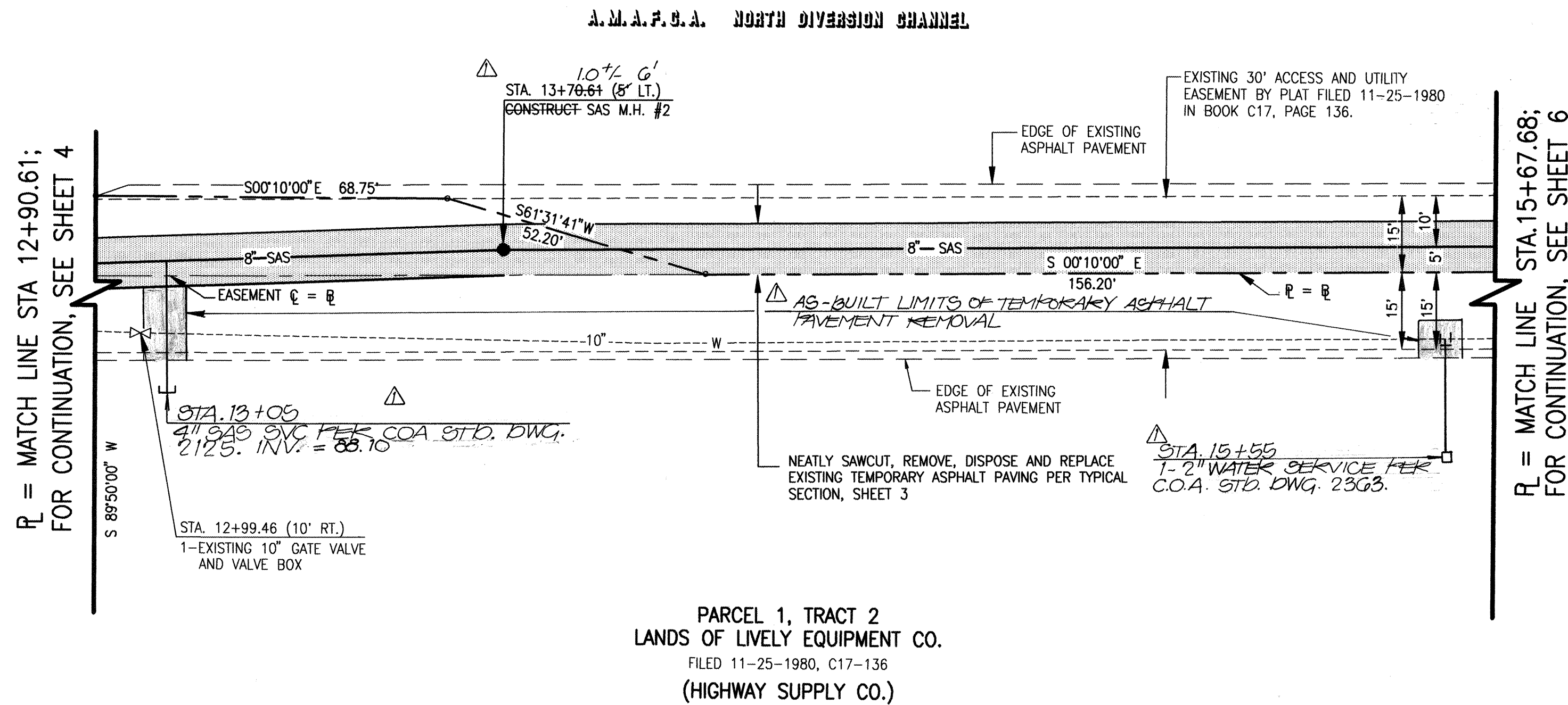
City Project No.	635881	Zone Map No.	E-16	Sheet	4	Of	8
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File Name:	20000141P.DWG	Plot Time:	08:11 am

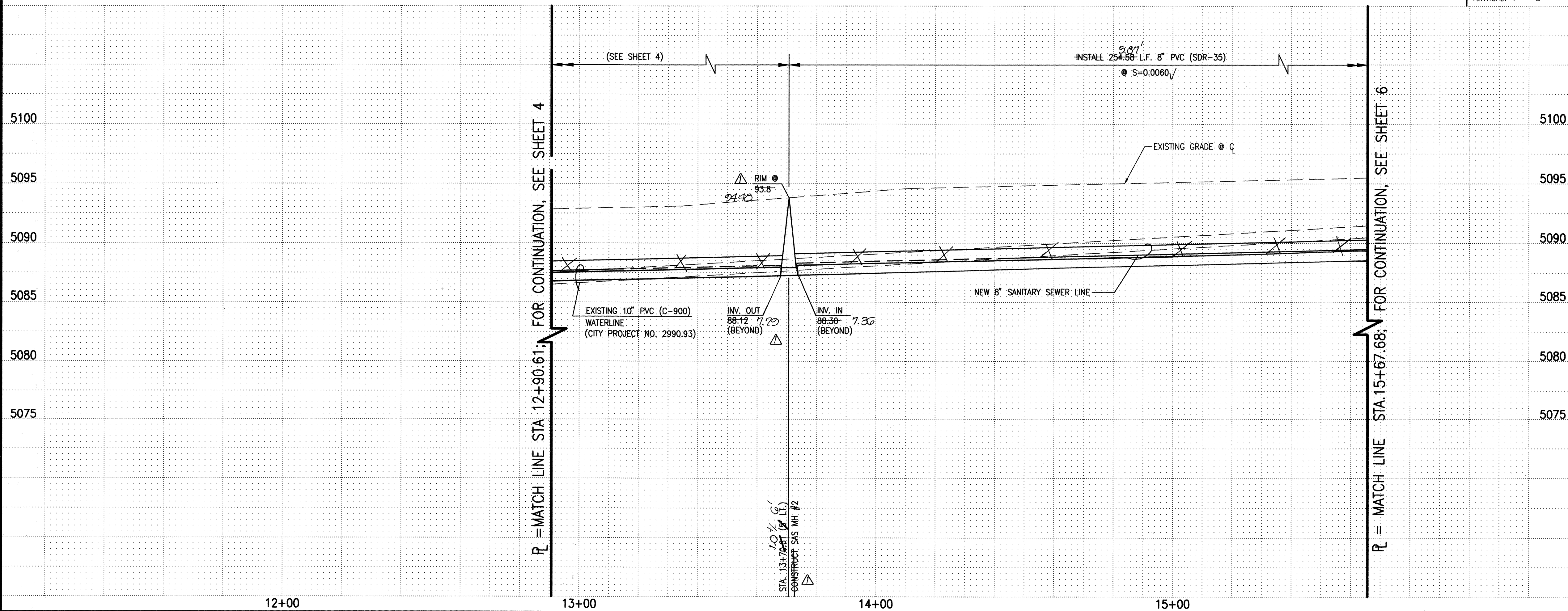
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File Name: 200001412.DWG
Plot Date: 03-08-2000
Plot Time: 1:50 pm

SCANNED BY
MESA REPRO

RECORD DRAWING



CHAPPELL ROAD N.E.



SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE (PVC C-900) BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

BENCH MARKS		AS BUILT INFORMATION	
STATION IS A STANDARD B.L.M. BRASS CAP SET IN CONCRETE	CONTRACTOR	CONTRACTOR	DATE
MONUMENT STAMPED 2102 WHICH PROJECTS 1.0' ABOVE GROUND.	BY	BY	DATE
THE STATION IS LOCATED 5.1 MILES NORTHEAST OF DOWNTOWN ALBUQUERQUE EAST OF THE NORTH DIVERSION CHANNEL AND SOUTH OF OSUNA ROAD NE TO REACH THE STATION FROM THE INTERCHANGE AT 1-25 AND OSUNA ROAD NE, GO WEST ON OSUNA 1.0 MILES TO ANOTHER DIRT ROAD. THE STATION IS LOCATED LEFT OF THIS POINT.	NO.	NO.	DATE
ELEVATION = 5110.406 FEET (M.S.L.D.)			

SURVEY INFORMATION		ENGINEER'S SEAL	
FIELD NOTES		REMARKS	
NO.	DATE	NO.	DATE
N/A	3/93	8547	02-2000
951172	3/96	8547	02-2000
		8547	03-2000

RECORD DRAWING		REVISIONS	
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.		DESIGN	
Jeffrey G. Mortensen, Registered Professional Engineer, No. 8547		Drawn By	J.G.M.
2000.014.1		Checked By	J.G.M.

JMA

JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY PARK BLVD. NE.
ALBUQUERQUE, N.M. 87109
ENGINEERS SURVEYORS (505) 345-4290

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

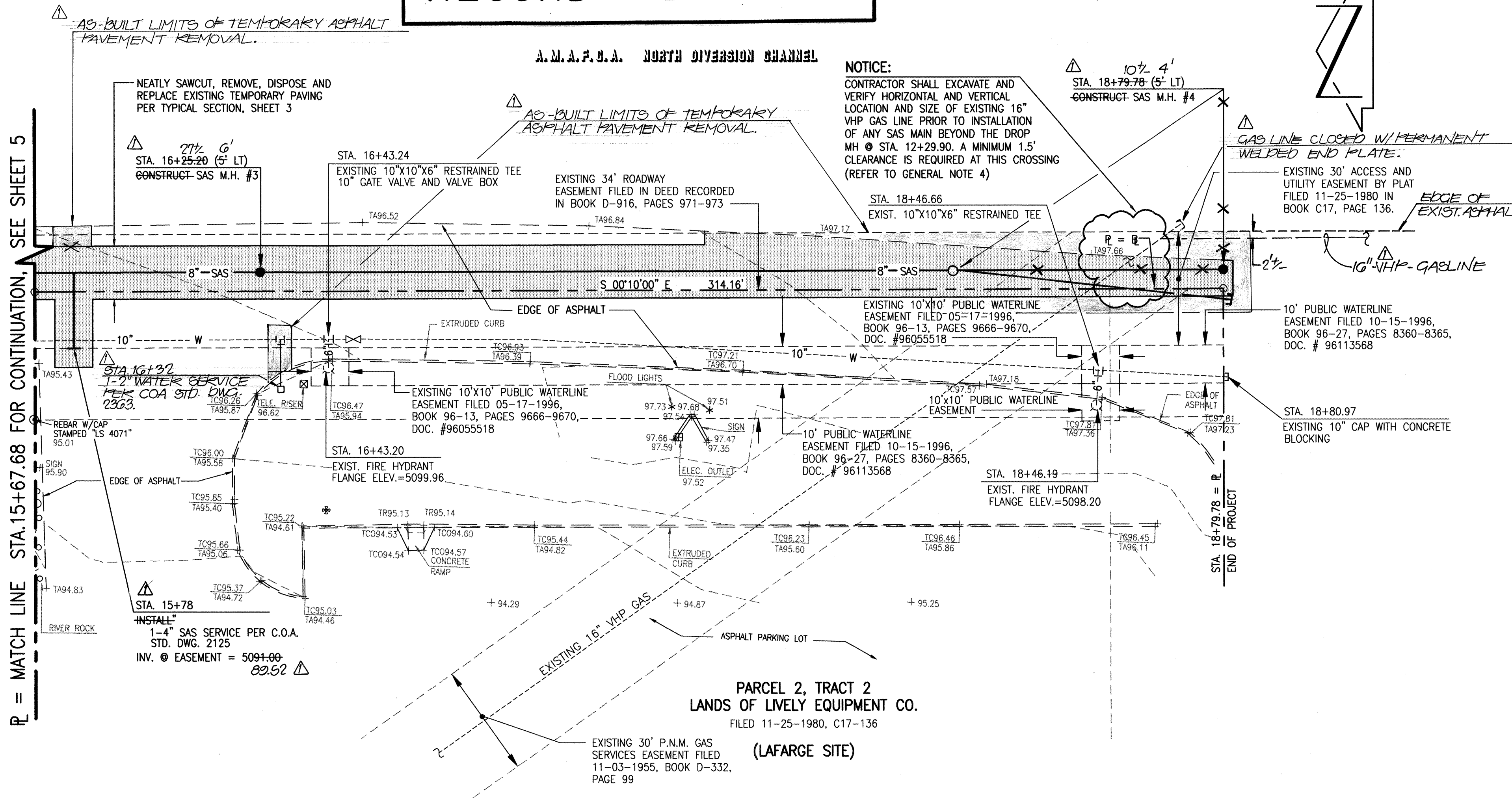
TITLE:
SANITARY SEWER LINE EXTENSION PLAN AND PROFILE
STA 12+90.61 TO STA 15+67.68

APPROVED
MAR 30 2000
DESIGN REVIEW COMMITTEE

APPROVED
MAY 16 2000
CITY ENGINEER

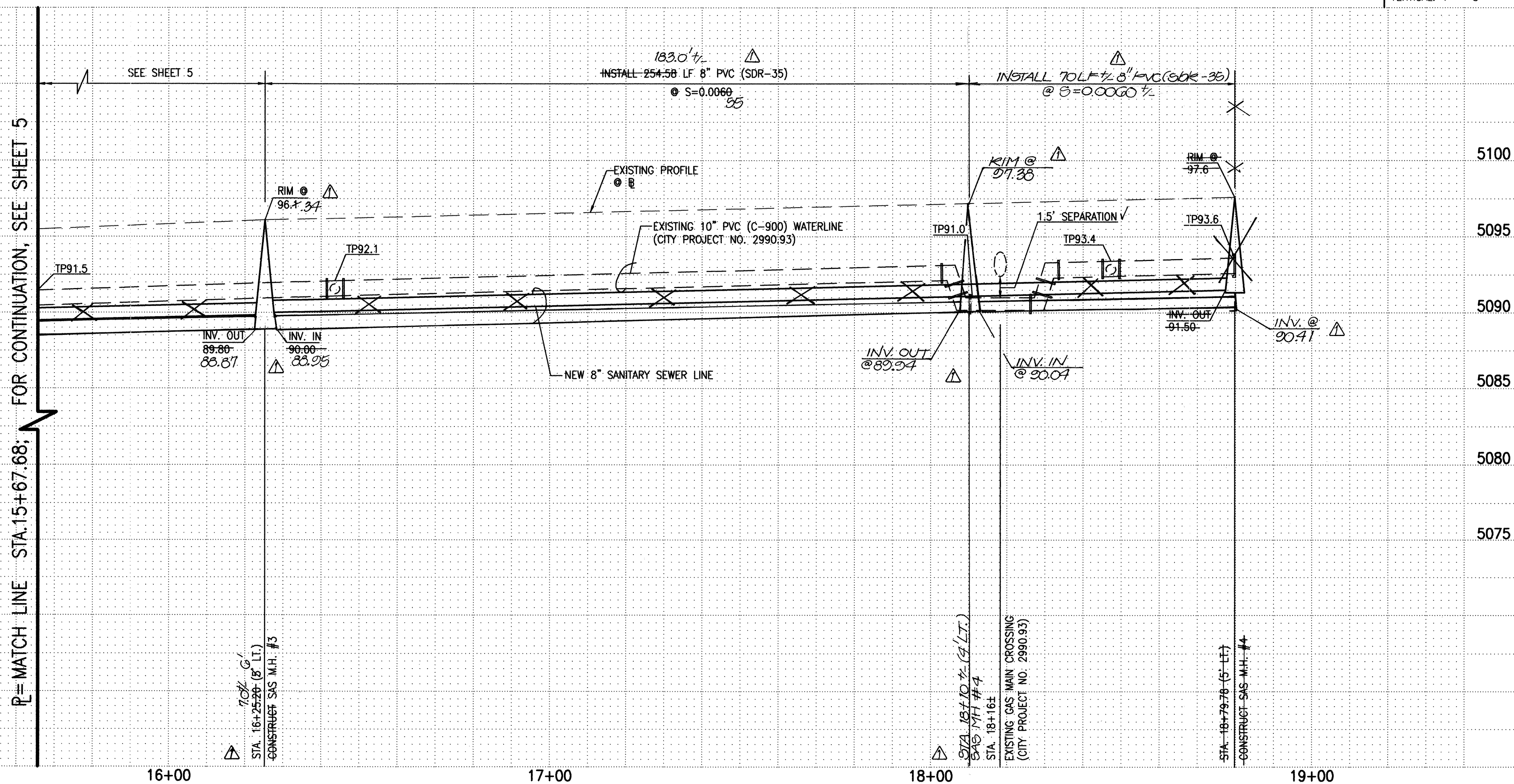
City Project No. 635881
Zone Map No. E-16
Sheet 5 of 8

RECORD DRAWING



CHAPPELL ROAD N.E.

SCALE:
HORIZONTAL: 1" = 20'
VERTICAL: 1" = 5'



SANITARY SEWER CONSTRUCTION NOTES:

- ALL STATIONING IS BASED ON EASEMENT CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR-35), UNLESS OTHERWISE NOTED.
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 OTHERWISE NOTED. MANHOLE STEPS SHALL BE DELETED FROM THIS CONTRACT.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE INSTALLED AS PRESSURE PIPE (PVC C-900) BETWEEN MANHOLES IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

AS BUILT INFORMATION				BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		AS-BUILT & CHECKING	
CONTRACTOR		DATE		STATION IS A STANDARD B.L.M. BRASS CAP SET IN CONCRETE MONUMENT STAMPED WITH WHICH PROJECTS 1.0' ABOVE GROUND.		FIELD NOTES		 03-10-2550		DATE	
WORK STAMPED BY		DATE		BY		DATE					
J.M.A.		01/00		J.M.A.		3/93					
J.M.A.		03/00		J.M.A.		3/96					
J.M.A.		03/00		J.M.A.		3/96					
FIELD CORRECTION BY		DATE		OF OSUNA ROAD NE. TO REACH THE STATION FROM THE INTERCHANGE AT 1-25 AND OSUNA ROAD NE. GO WEST ON OSUNA 1.0 MILES TO ANOTHER DIRT ROAD. THE STATION IS LOCATED LEFT OF THIS POINT. ELEVATION = 5110.406 FEET (M.S.L.D.)		NO.		DATE		DESIGNED BY	
J.M.A.		03/00								J.G.M.	
J.M.A.		03/00								J.G.M.	
J.M.A.		03/00								J.G.M.	
J.M.A.		03/00								J.G.M.	
J.M.A.		03/00								J.G.M.	
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J.M.A.		03/00								J.G.M.	
J.M.A.		03/00								J.G.M.	
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J.M.A.		03/00								J.G.M.	
J.M.A.		03/00									

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 (M.U.T.C.D.) 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 5A 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 PLACES 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. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

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 TRAVELED 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. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITAL, TRANSIT AUTHORITY, BUSINESSES AN/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 PATCHES 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. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

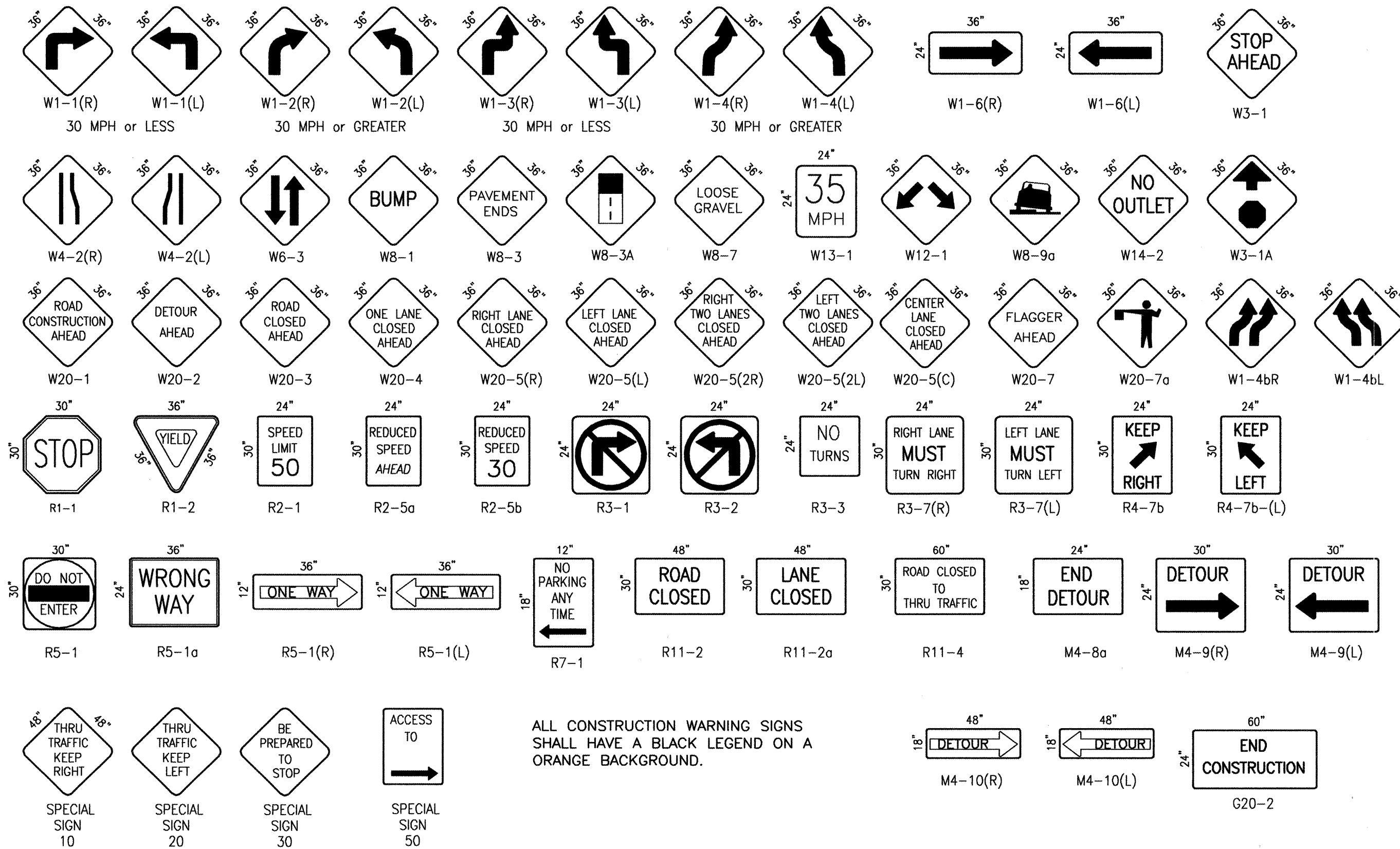
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

SPECIAL PROJECT TRAFFIC CONTROL NOTES:

- A. ALL WORK TO BE PERFORMED ON THIS PROJECT THAT AFFECTS EXISTING TRAFFIC LANES SHALL BE ACCOMPLISHED WITH EXTENDED WORK HOUR CONSTRUCTION FROM 7:00 A.M. TO 7:00 P.M. DAILY.
- B. ONE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES. IF THE WORK IS SEQUENCED SUCH THAT A TOTAL ROAD CLOSURE IS REQUIRED, THE CONTRACTOR SHALL SUBMIT A DETOUR PLAN FOR APPROVAL TO CONSTRUCTION COORDINATION PRIOR TO COMMENCING WORK.



SIGN FACE DETAILS



LEGEND

- WORK AREA
BARRICADE - TYPE I, TYPE II OR BARREL
BARRICADE - TYPE III
VERTICAL PANEL
WARNING SIGN
DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
FLAGMAN POSITION
SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
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 (L) (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(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	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	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$\frac{WS^2}{60}$
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	

RECORD DRAWING

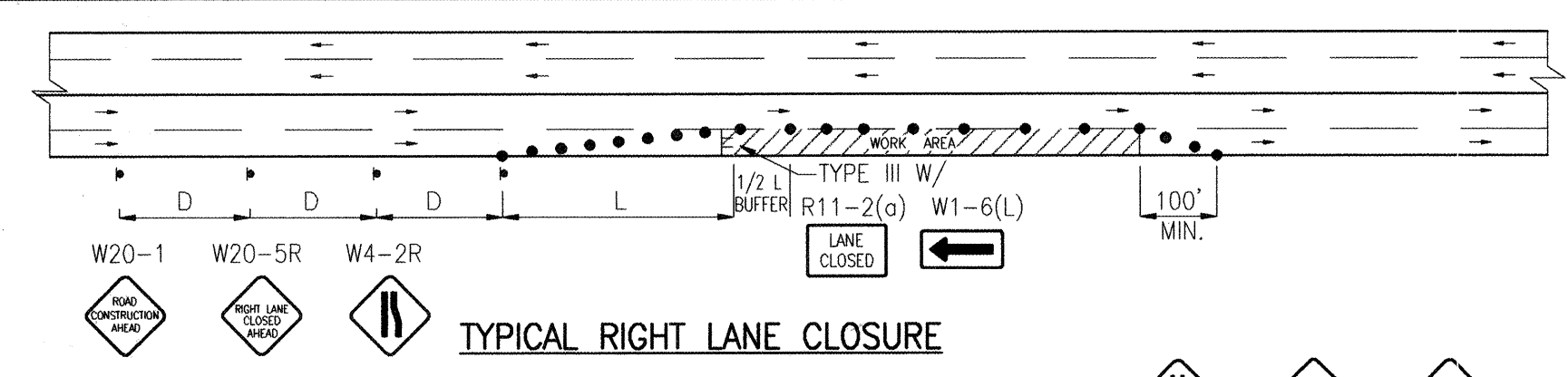
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

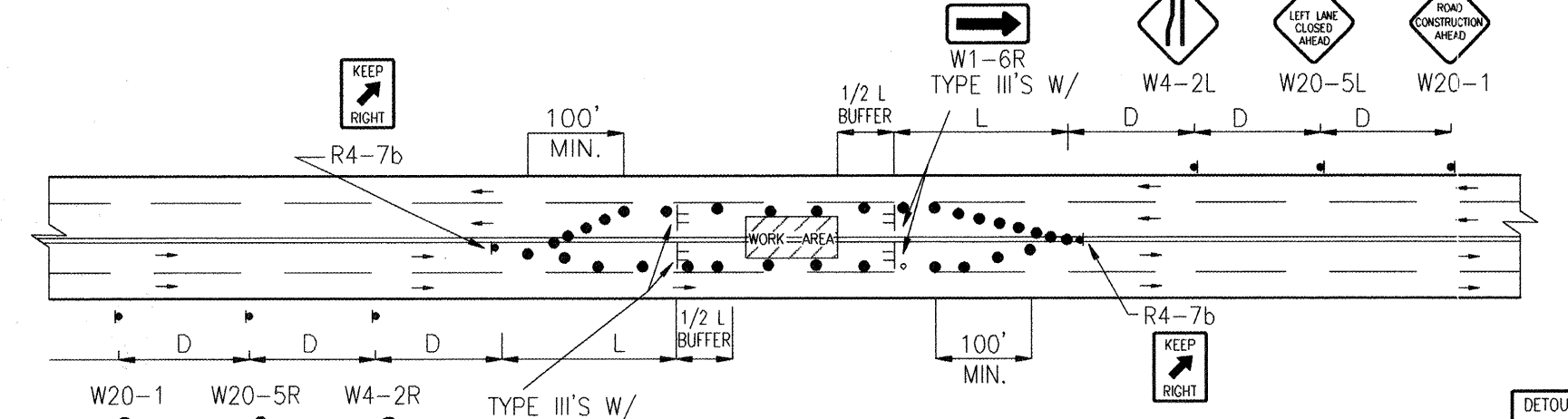
TITLE: LA FARGE/CHAPPELL ROAD SANITARY SEWER LINE EXTENSION
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

Design Review Committee	City Engineer Approval	Us./Day/Year	Us./Day/Year
CEP	STP		
City Project No.	Zone Map No.	Sheet	Of
635881	E-16	7	8

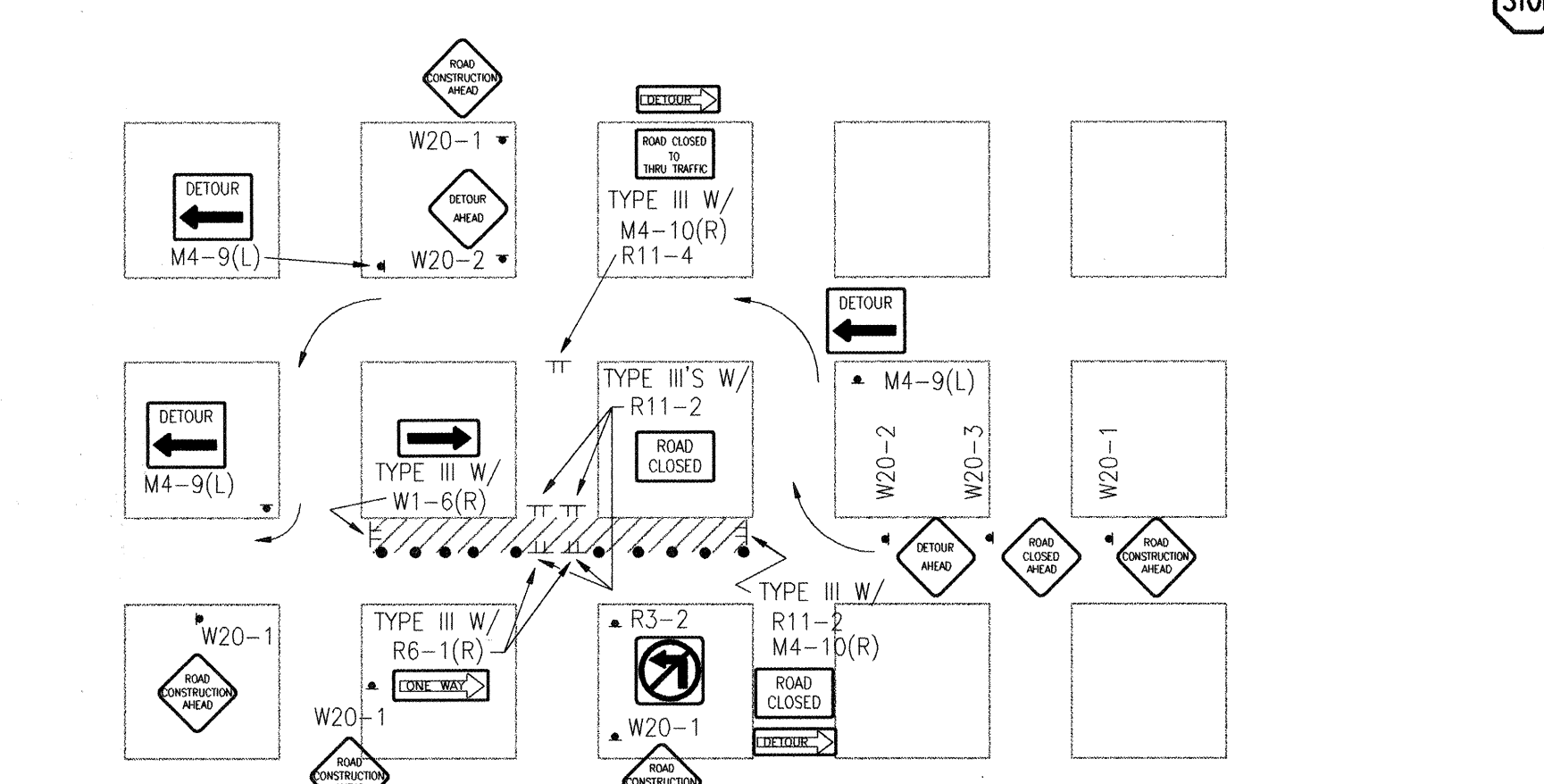
SCANNED BY
MESA REPRO



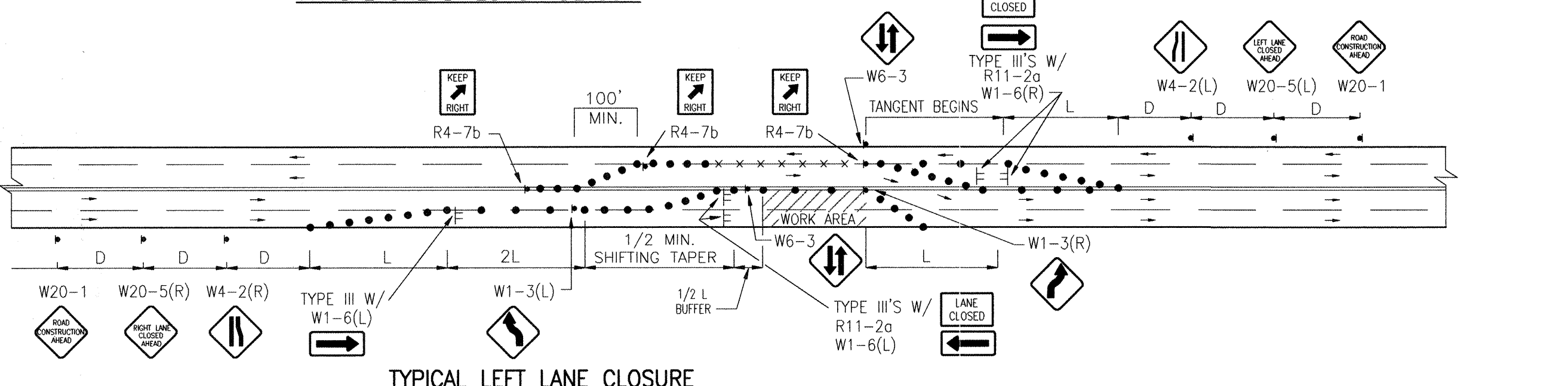
TYPICAL RIGHT LANE CLOSURE



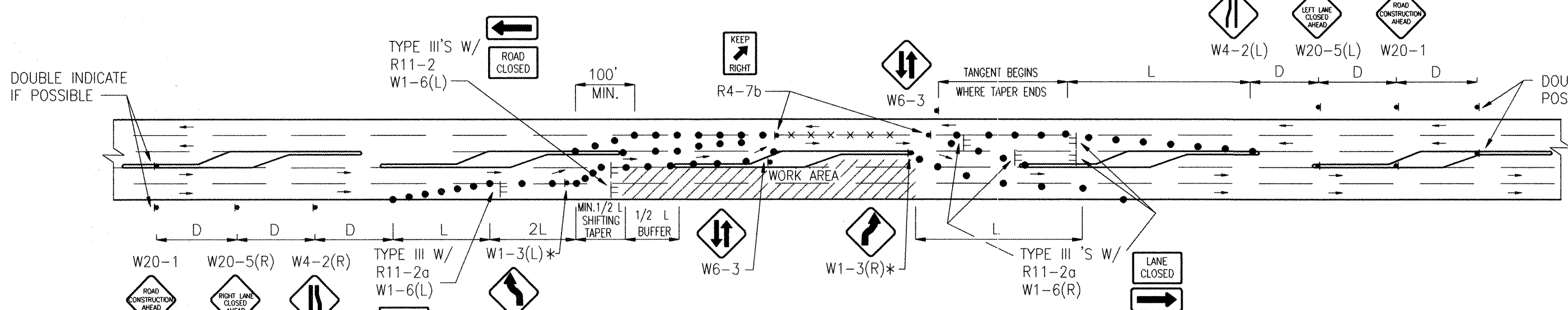
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR



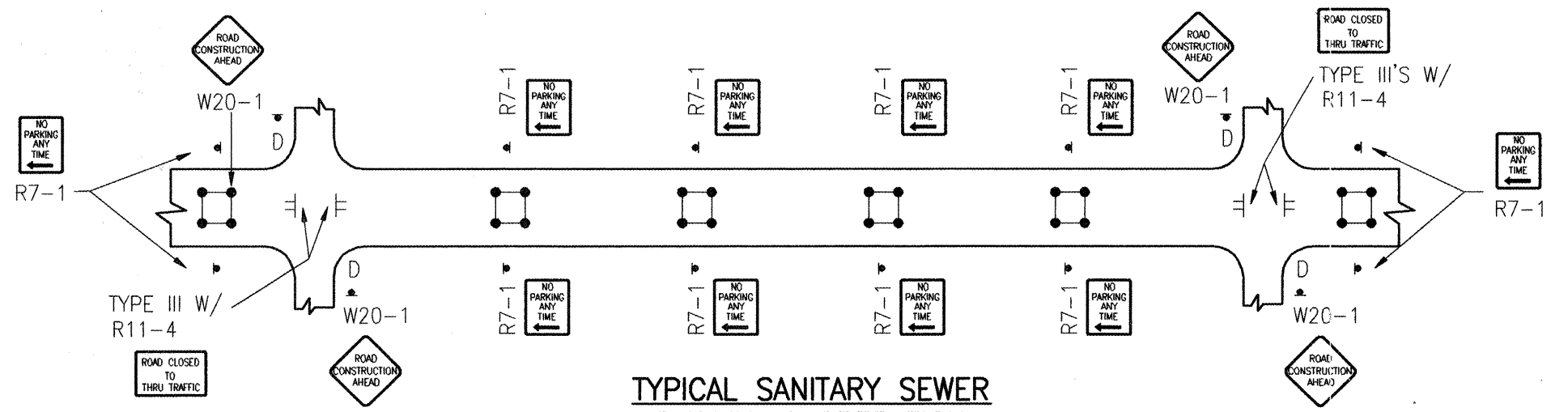
TYPICAL LEFT LANE CLOSURE



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

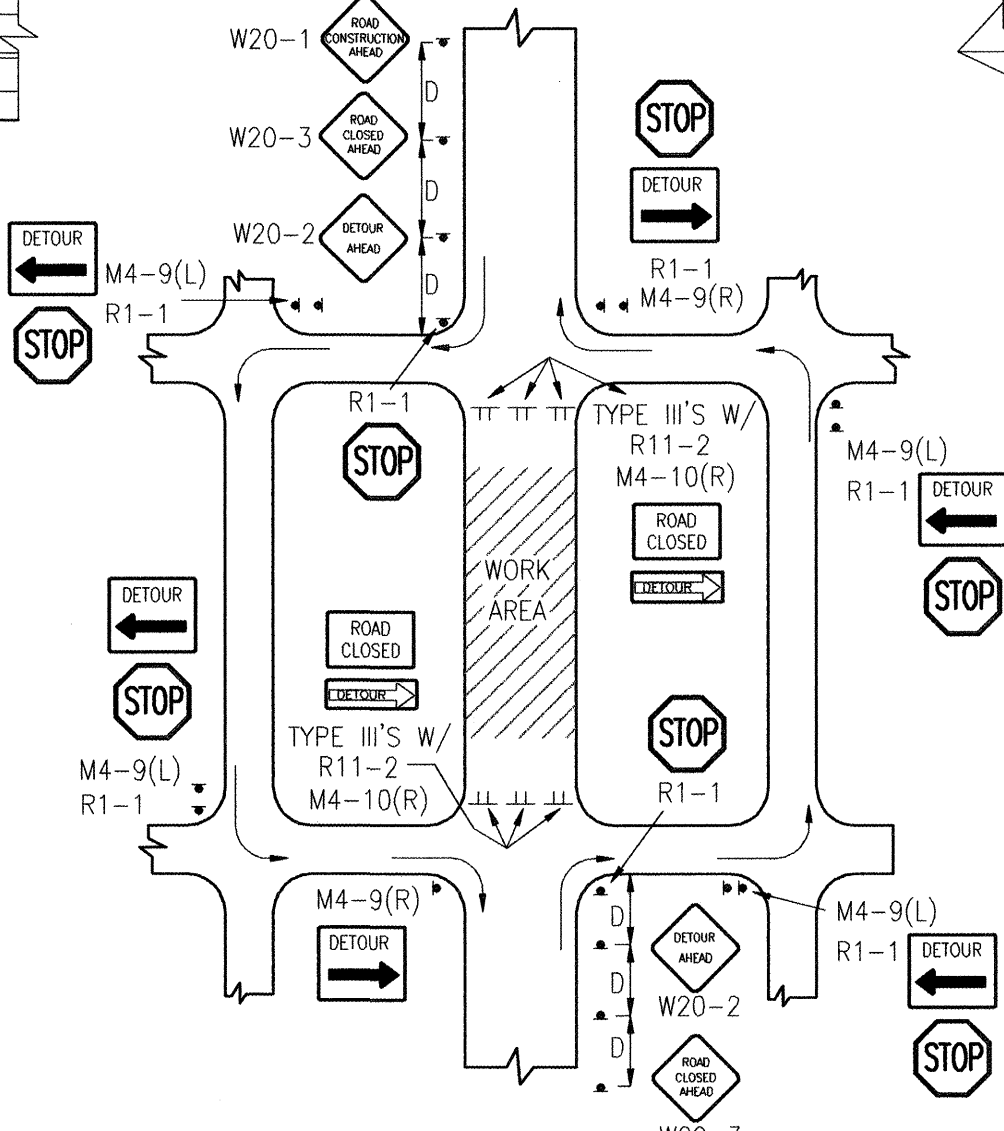
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L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



TYPICAL SANITARY SEWER SLIPLINING OPERATION

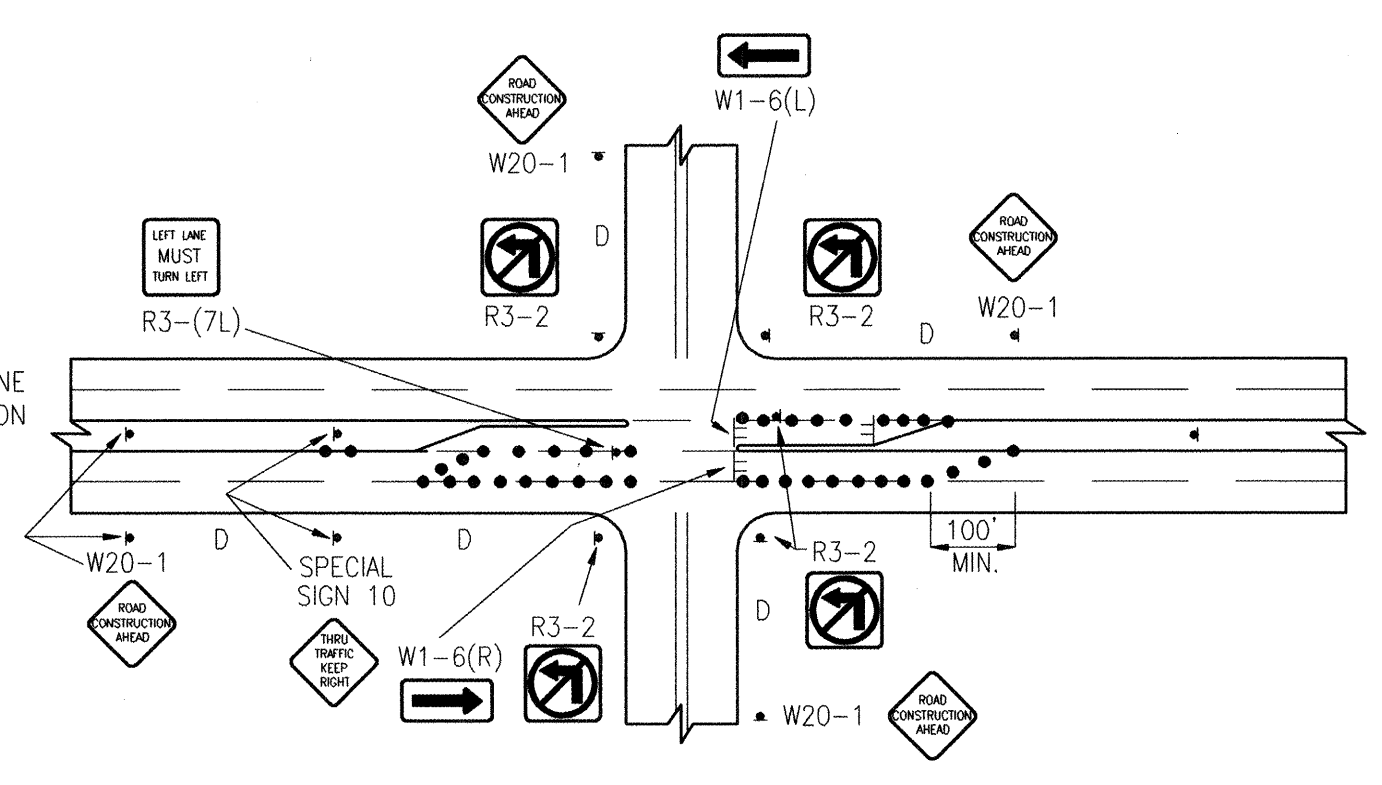
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

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



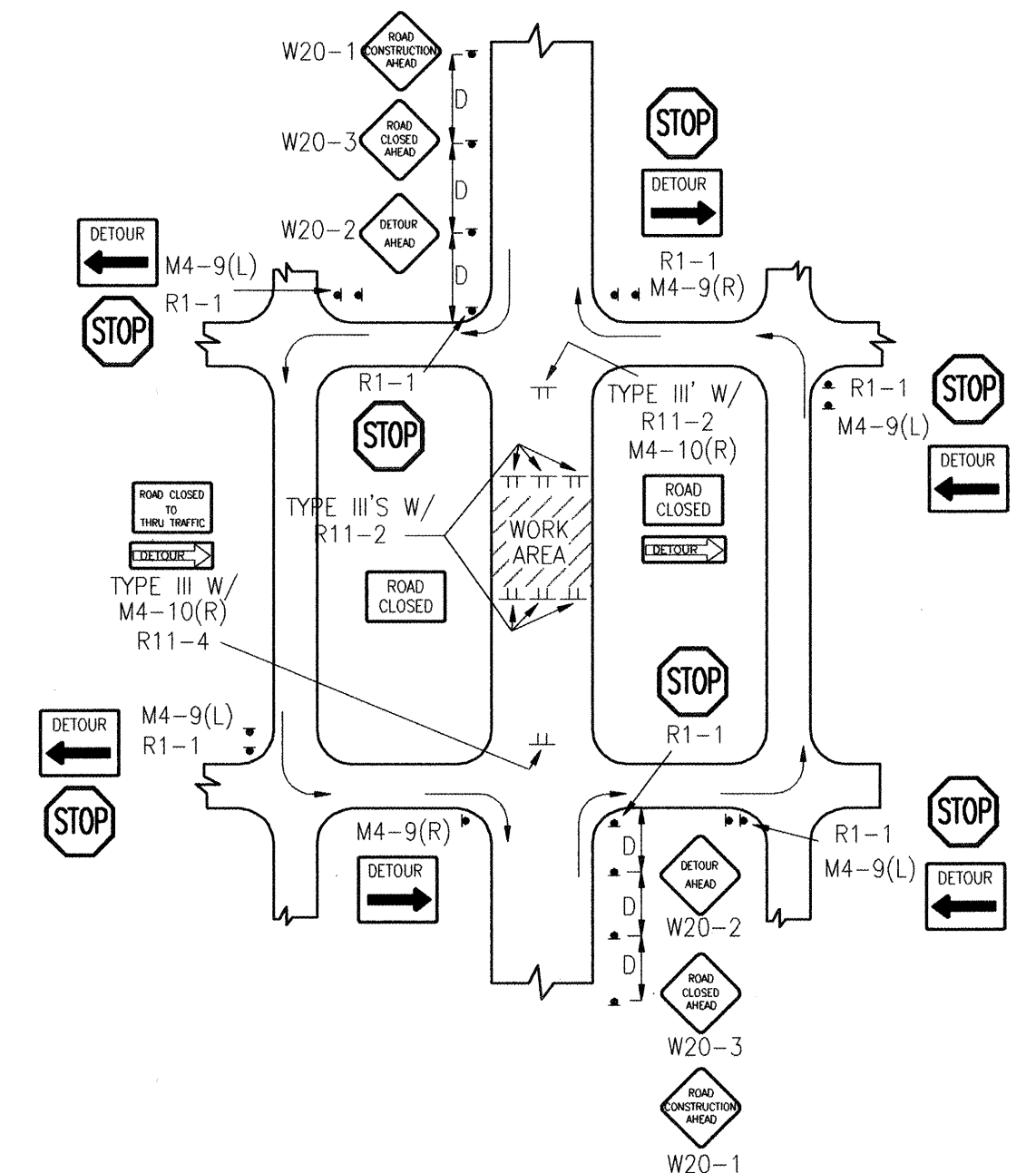
TYPICAL STREET CLOSURE

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



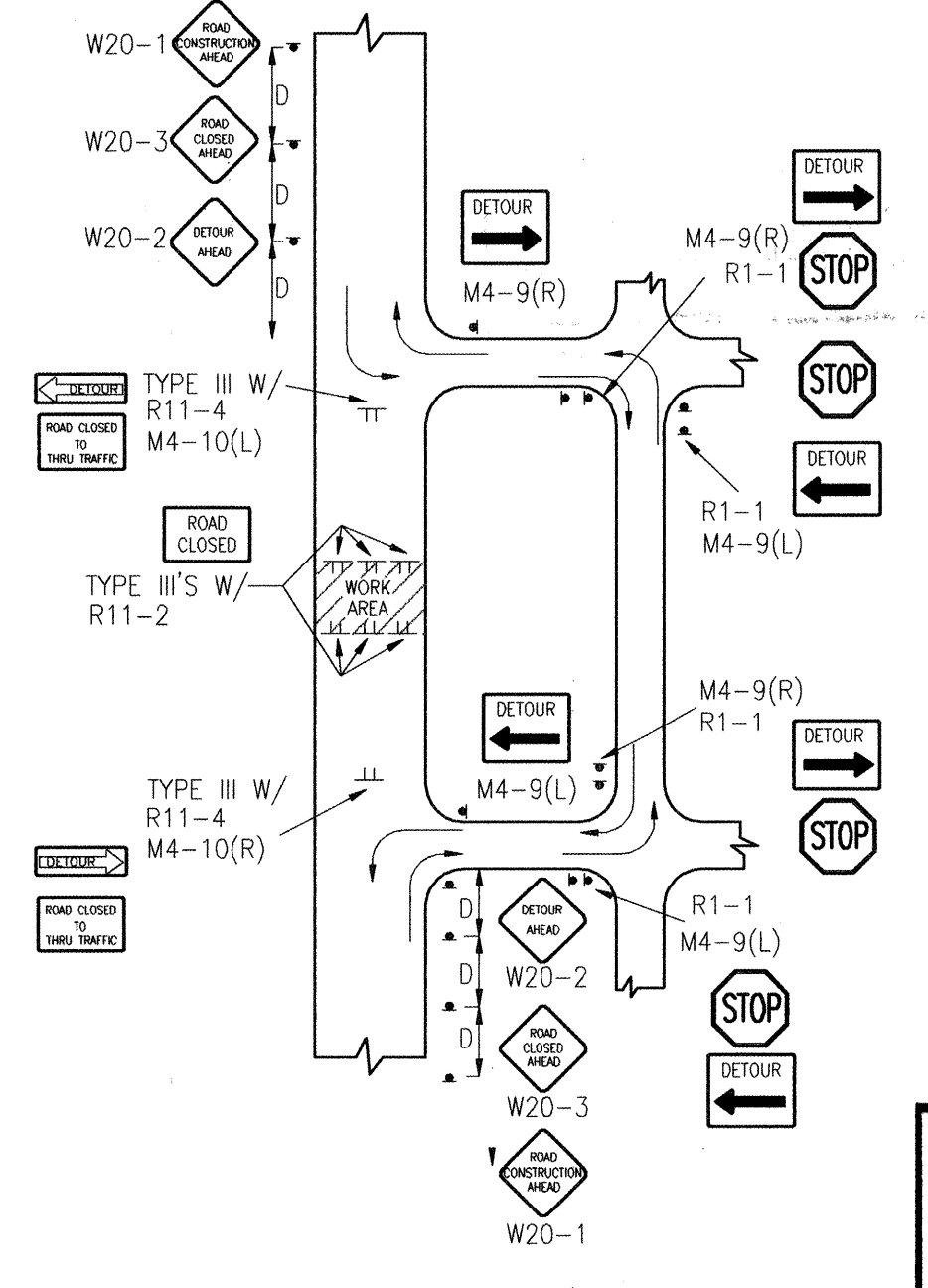
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



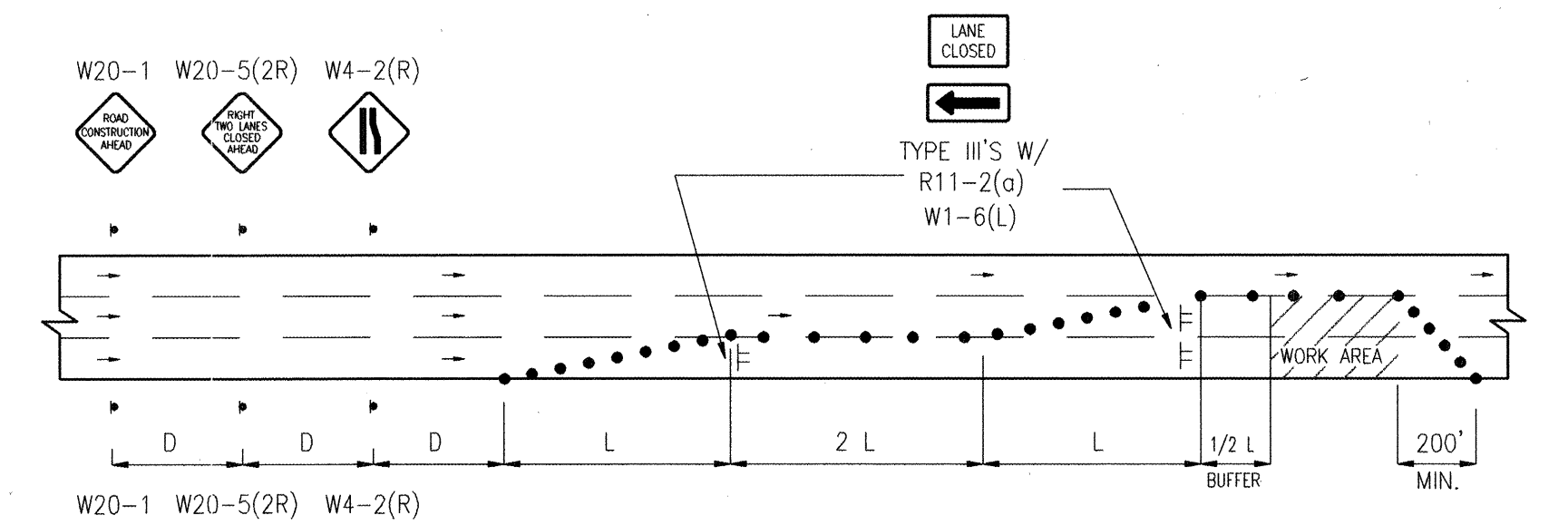
TYPICAL MID-BLOCK CLOSURE

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

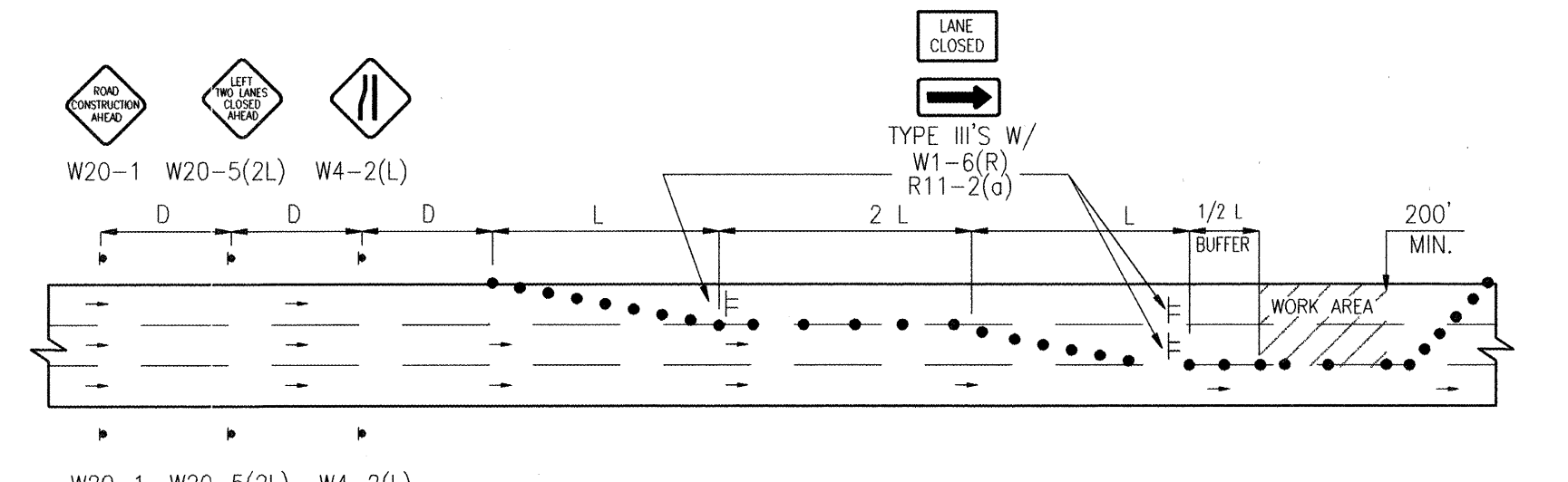


TYPICAL STREET CLOSURE

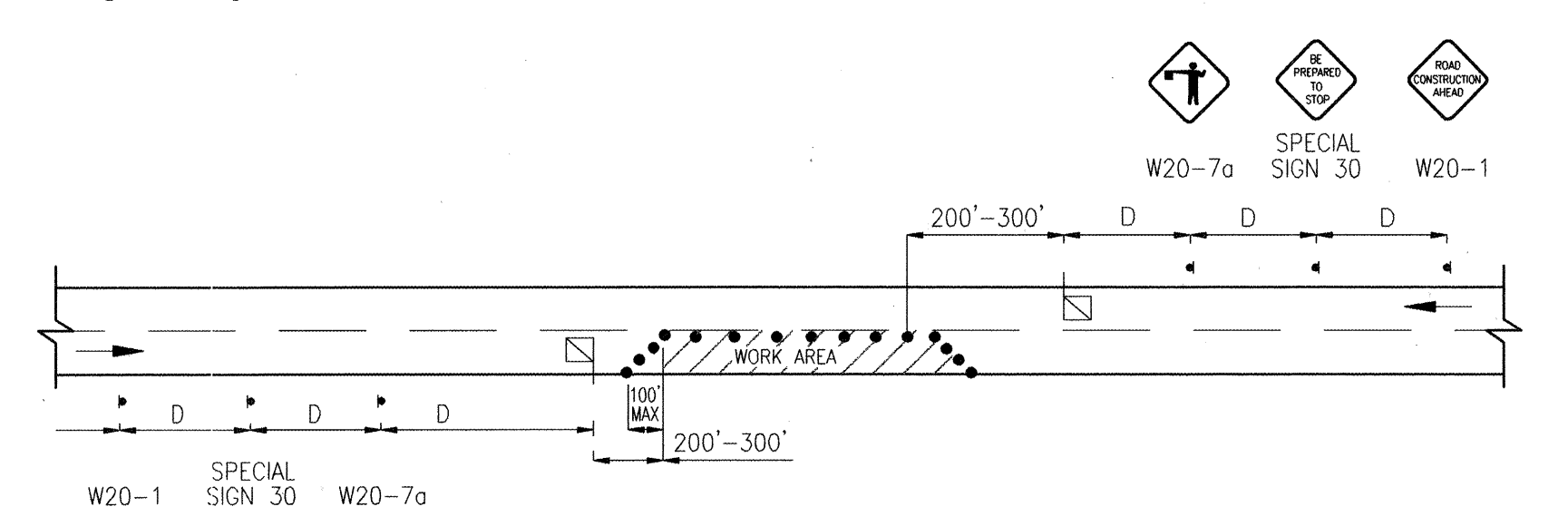
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



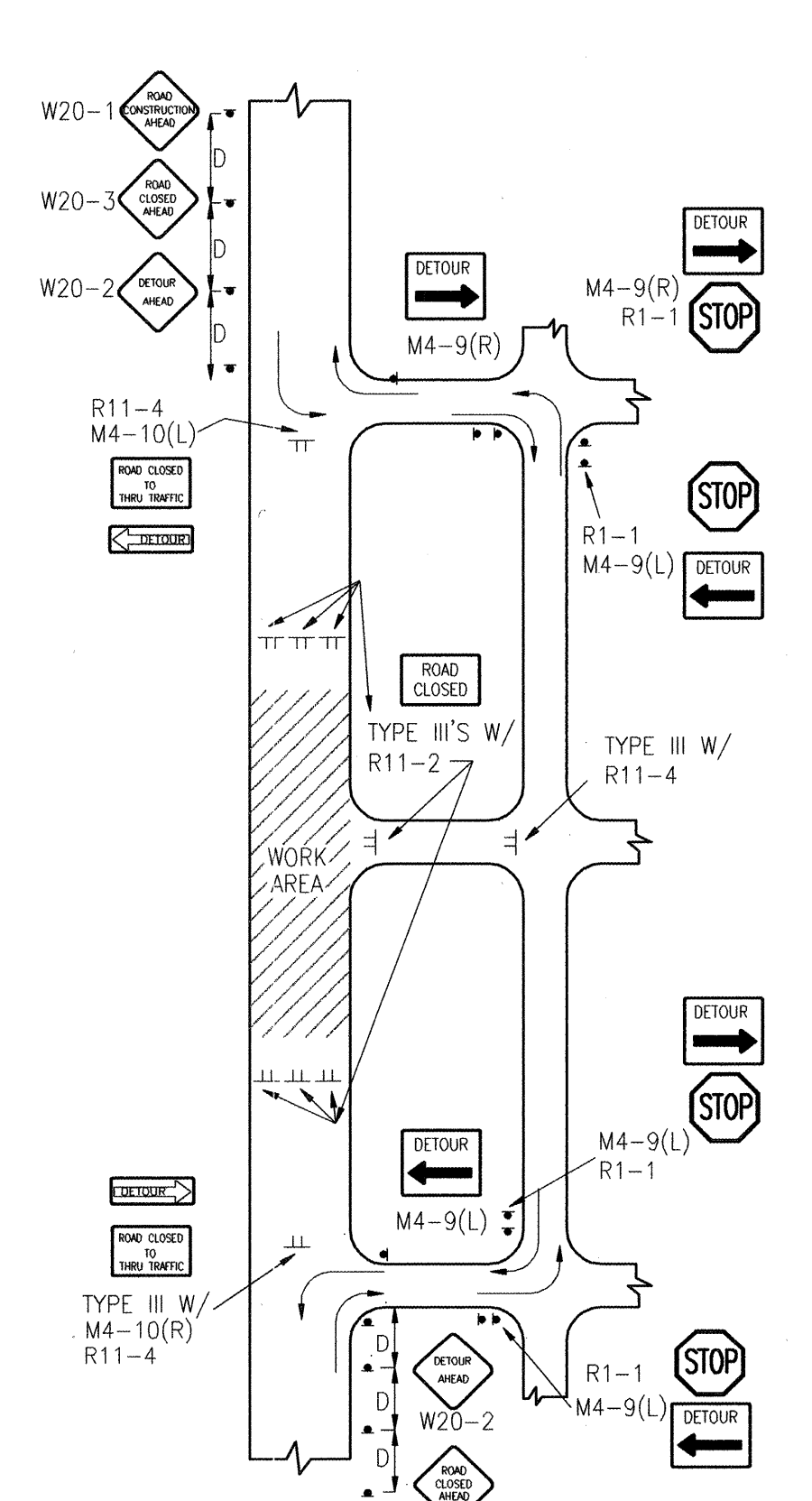
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE RIGHT LANE CLOSURE

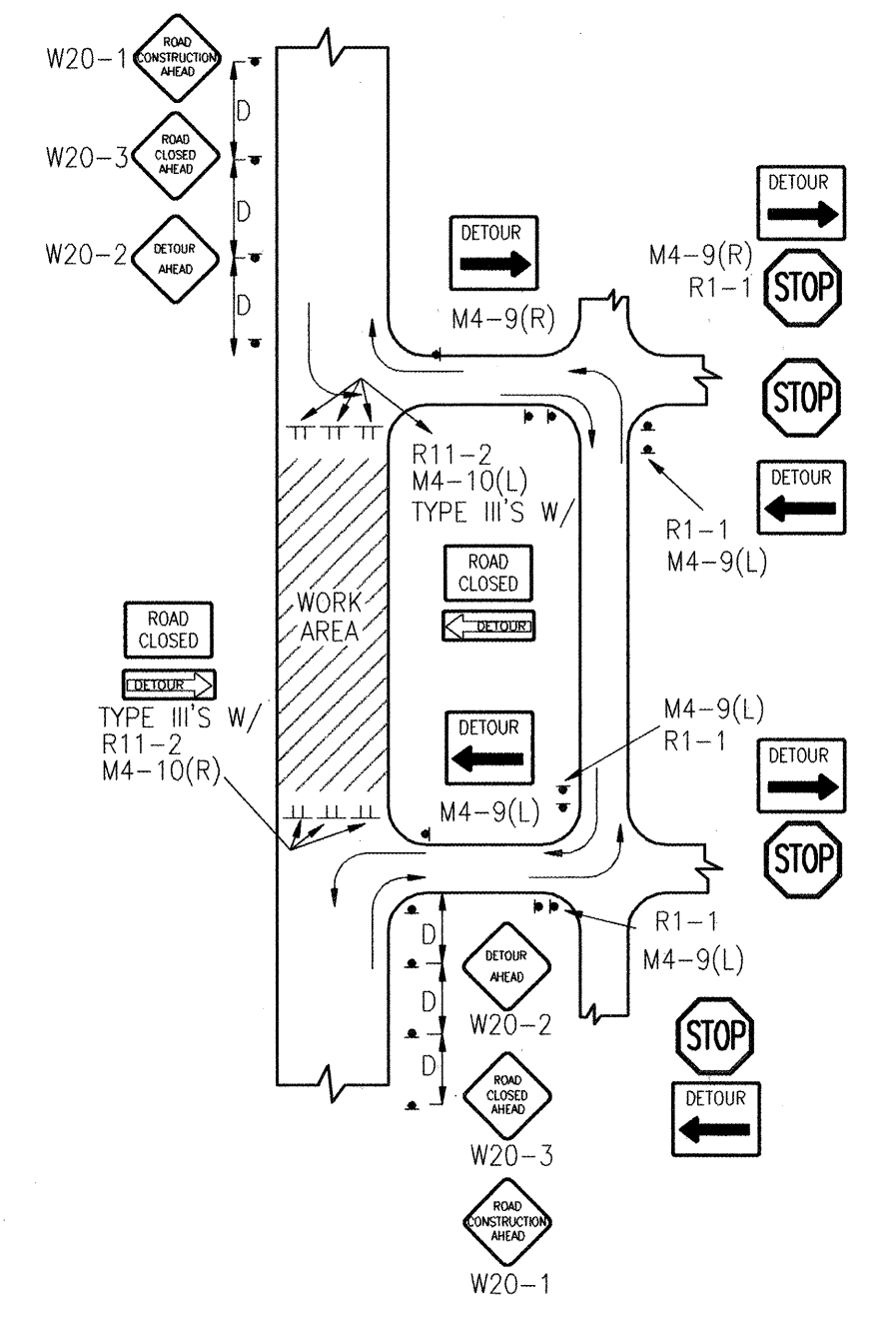


TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

2000.014.1

RECORD DRAWING

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: LA FARGE/CHAPPELL SANITARY SEWER EXTENSION TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)	
Design Review Committee	City Engineer Approval
COA	STP
City Project No. 635881	Zone Map No. E-16
Sheet 8	Of 8

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK SHOWN BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REVISIONS	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGN	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION		C.O.A. STANDARDS		REMARKS		DESIGN	
NO.		C.O.A. STANDARDS		DESIGN		DESIGN	