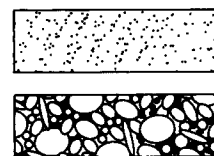


• L E G E N D •

MATERIALS

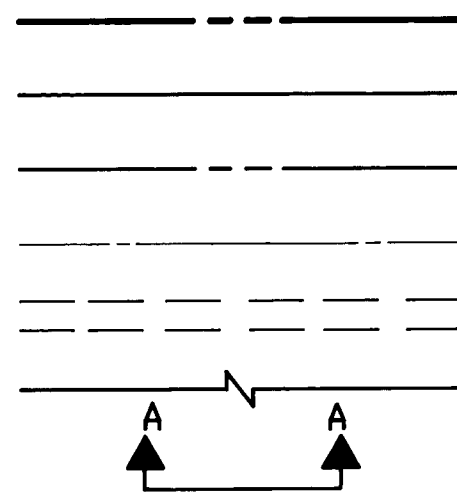
CONCRETE

RIP-RAP



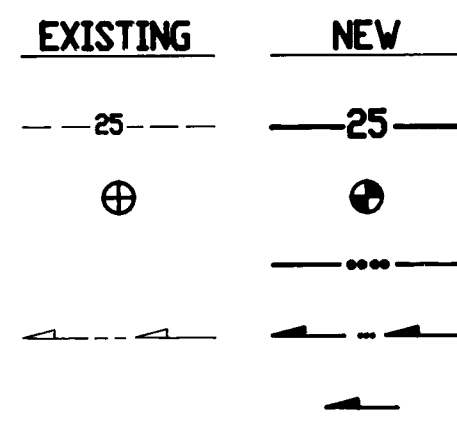
LINES

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



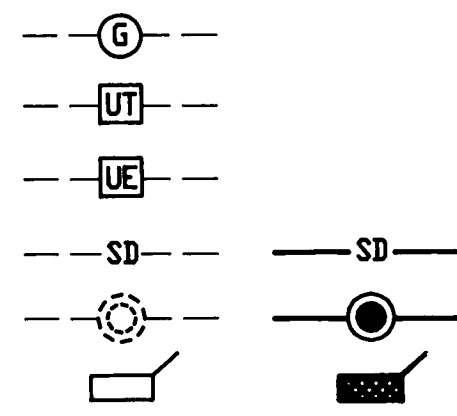
EARTHWORK

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



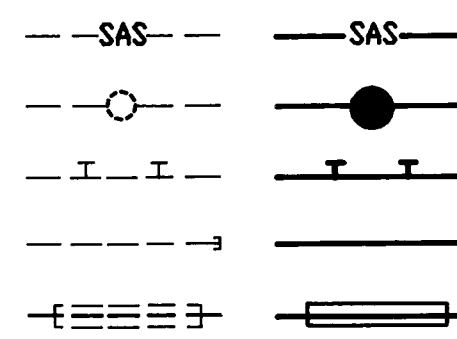
MISCELLANEOUS UTILITIES

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



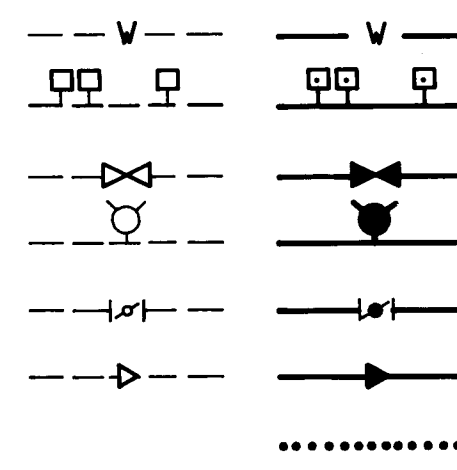
SANITARY SEWER

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



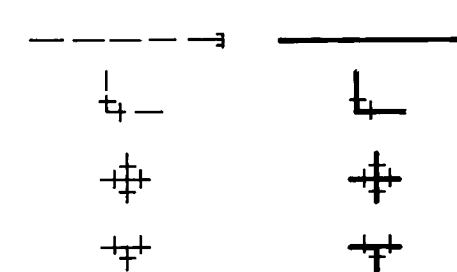
WATER

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



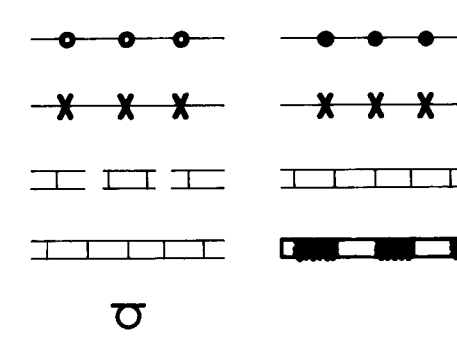
WATER FITTINGS

CAPS AND PLUGS
ELBOW
CROSS
TEE

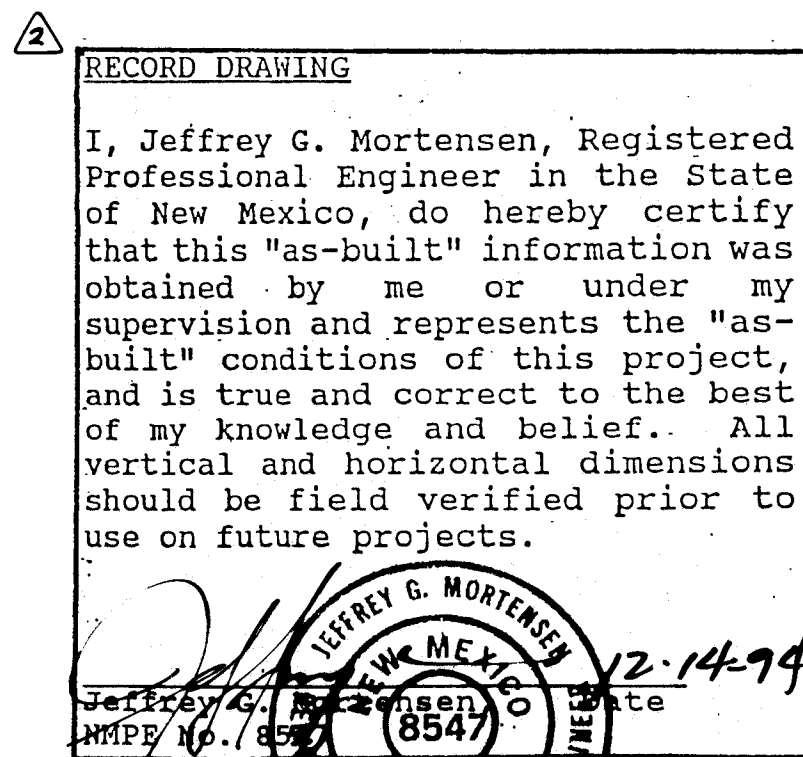


MISCELLANEOUS

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



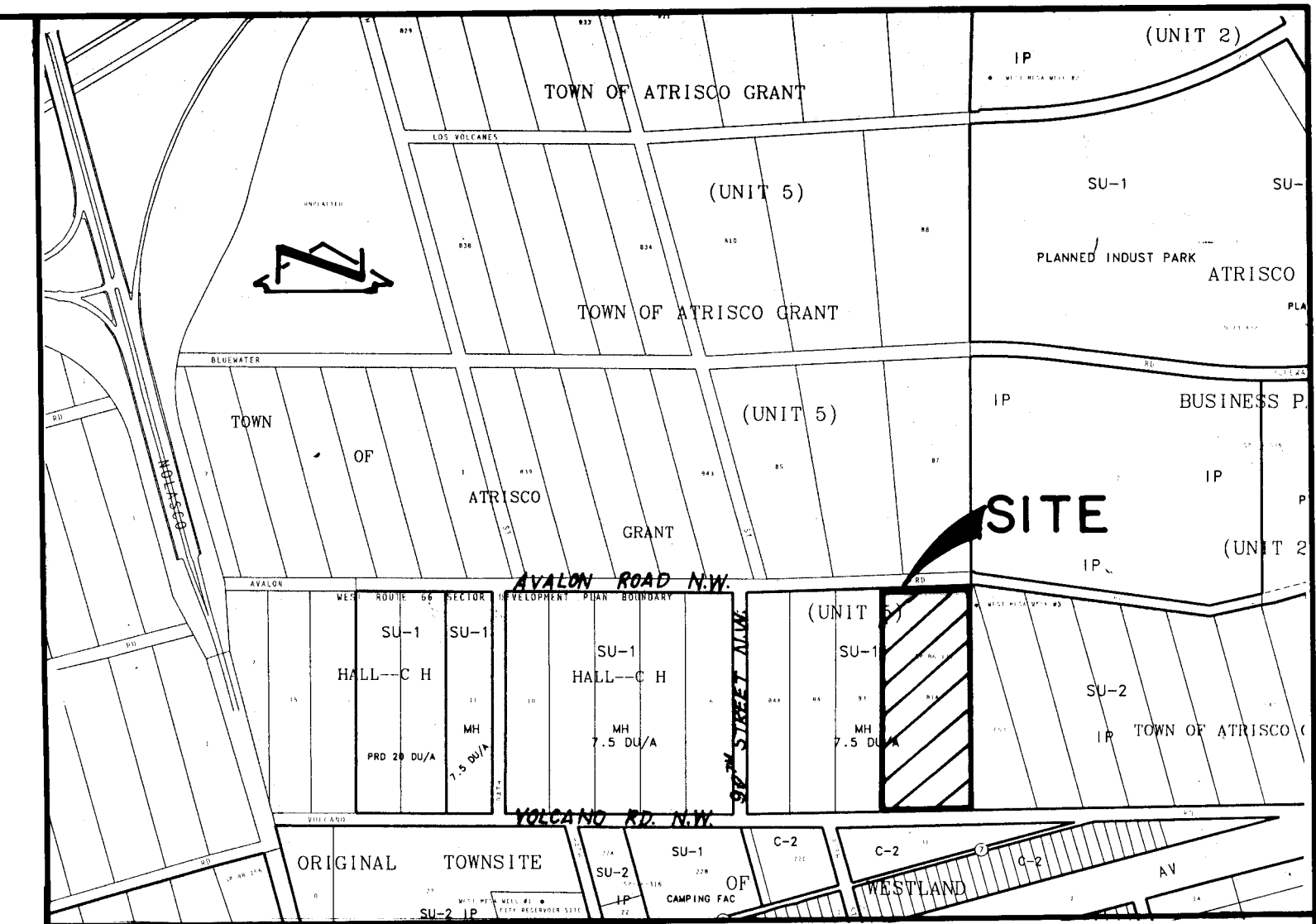
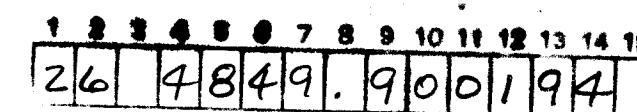
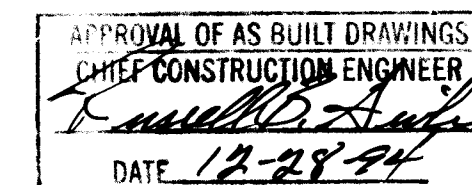
CONSTRUCTION PLANS
for
SUNRISE
ALBUQUERQUE, NEW MEXICO
JANUARY, 1994



RECORD DRAWING

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1	COVER SHEET, VICINITY MAP, GENERAL NOTES, LEGEND AND INDEX OF DRAWINGS
2	PLAT
3	GRADING AND DRAINAGE PLAN
4	SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
5	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES
6	PAVING IMPROVEMENTS
7	PAVING SITE PLAN
8	VOLCANO ROAD N.W. - STA. 23+29.18 TO STA. 27+99.40
9	VOLCANO ROAD N.W. - STA. 10+00 TO STA. 23+29.18
10	BRISTOL STREET N.W. - STA. 10+20 TO STA. 21+72.12
11	GALATANEU STREET N.W. - STA. 10+20 TO STA. 18+96.72
12	AVALLON ROAD N.E. - STA. 12+00 TO STA. 25+00
13	SECTIONS AND DETAILS
14	WATER AND SANITARY SEWER EXTENSIONS
15	WATER AND SANITARY SEWER SITE PLAN
16	VOLCANO ROAD N.W. - STA. 19+97.73 TO STA. 26+23.40
17	BRISTOL STREET N.W. - STA. 9+90 TO STA. 21+72.12
18	GALATANEU STREET N.W. - STA. 9+90 TO STA. 18+96.72



VICINITY MAP
SCALE: 1" = 750' (APPROX.)

- GENERAL NOTES:
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986. (UPDATE NO. 4)
 - TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, 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 DEPRESSED 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.
 - 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.
 - THREE (3) 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.

1-16							
12							
REV.	SHEETS	CITY ENGINEER	DATE	USER	DEPARTMENT	DATE	USER

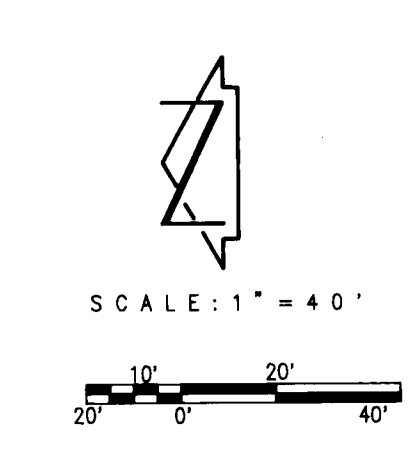
APPROVAL OF REVISIONS

APPROVED FOR CONSTRUCTION

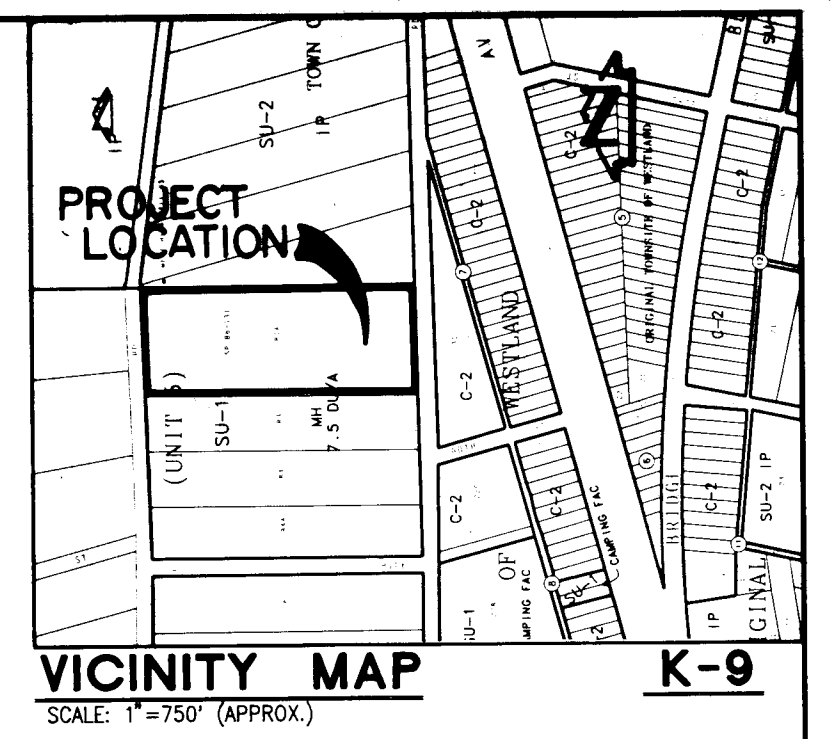
PROJECT NO. 4849.90

SHEET 1 OF 16

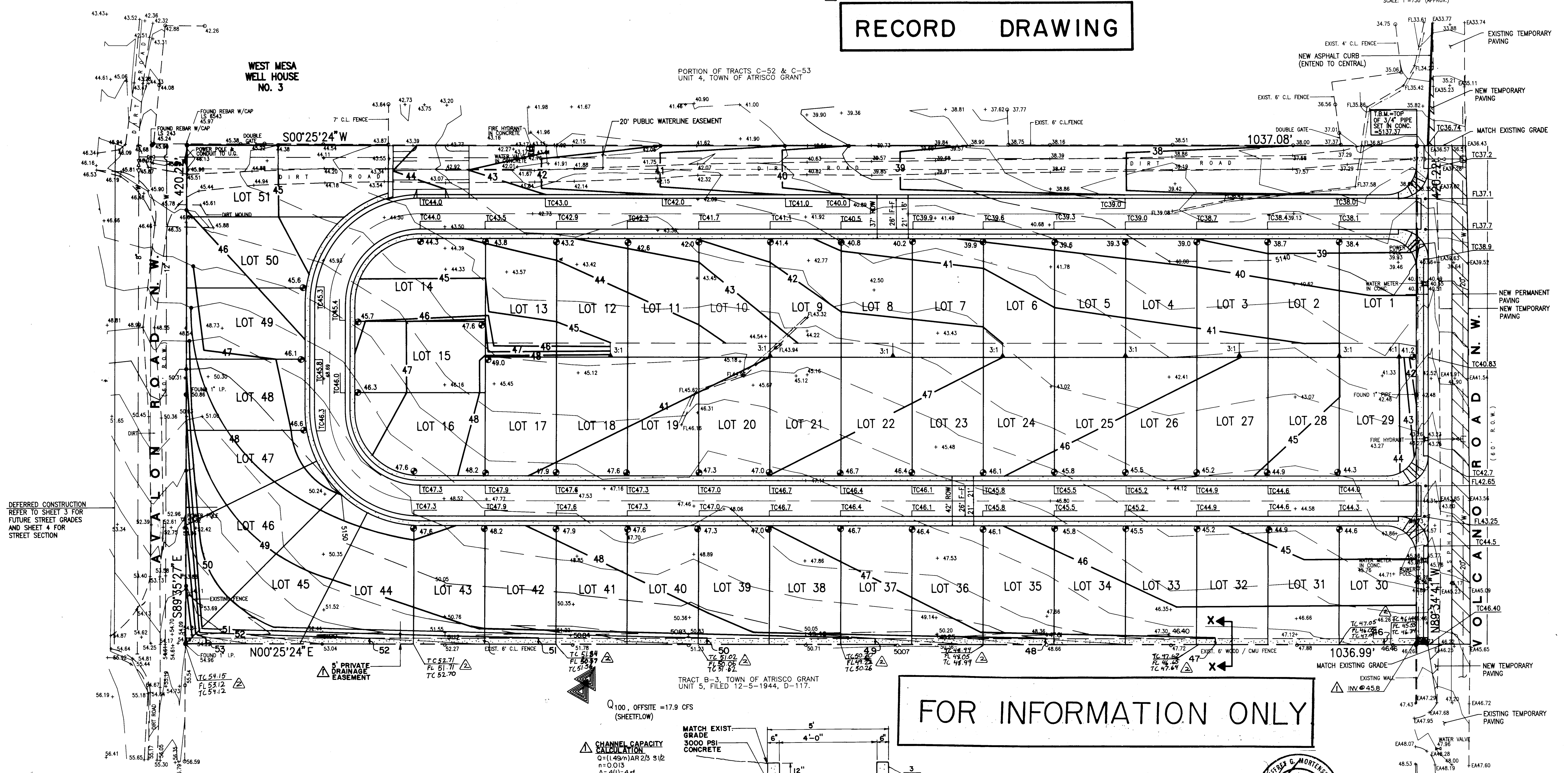
- LEGEND**
- + 40.62 EXISTING SPOT ELEVATION
 - 38.7 PROPOSED SPOT ELEVATION
 - 5140 EXISTING CONTOUR
 - 43 PROPOSED CONTOUR
 - EA EDGE OF ASPHALT
 - TC TOP OF CURB
 - FL FLOWLINE



LEGAL DESCRIPTION
TRACT B-1-A, UNIT 5, TOWN OF ATRISCO GRANT.
PROJECT BENCHMARK
AN ACS BENCHMARK (2 K9). THE STATION IS AN "X" CUT ON THE NORTH BONNET BOLT OF FIRE HYDRANT LOCATED AT THE INTERSECTION OF WEST CENTRAL AVENUE & 90th STREET N.W. ELEVATION = 5144.90 FEET (M.S.L.D.).
T.B.M.
TOP OF 3/4" PIPE SET IN CONCRETE LOCATED AT THE S.E. CORNER OF SAID SITE AS SHOWN BELOW. ELEVATION = 5137.37 FEET (M.S.L.D.).

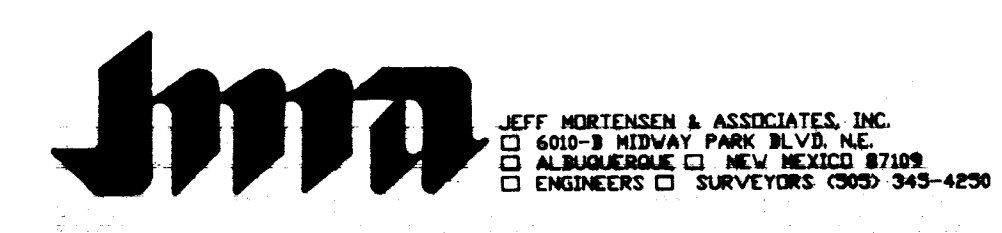


RECORD DRAWING



FOR INFORMATION ONLY

APPROVAL FOR ROUGH GRADING:
HYDROLOGY SECTION
DATE



**GRADING AND DRAINAGE PLAN
SUNRISE SUBDIVISION**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
22 48 49 9 0 0 3 9 4

DESIGNED BY	DATE	BY	REVISIONS	JOB NO.
J.G.M.	12/93	J.G.M.	ADD PRIVATE DRAINAGE EASEMENT & CHANNEL	930616
S.G.H.	10/94	STU	AS-BUILT & CERTIFY	DATE 11-1993
J.G.M.				SHEET 3 OF 16

SCANNED BY LASON

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

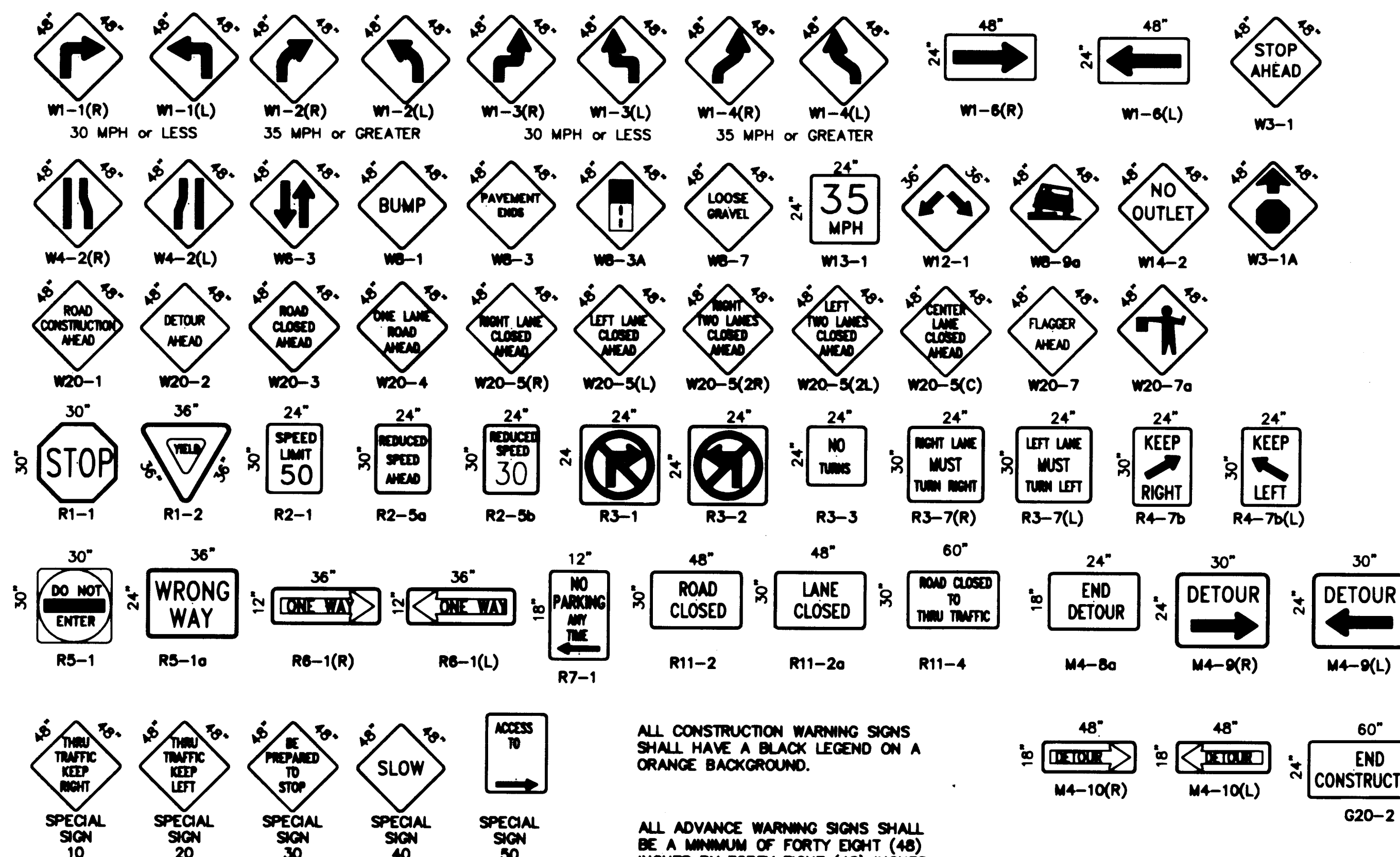
- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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.
- 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.
- 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- 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.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 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.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

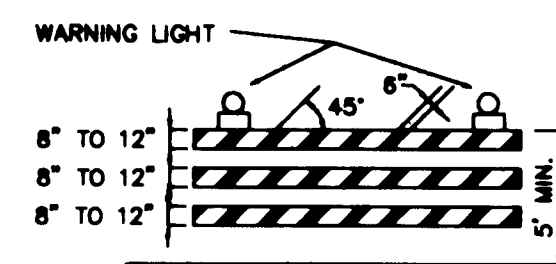
RECORD DRAWING

SIGN FACE DETAILS

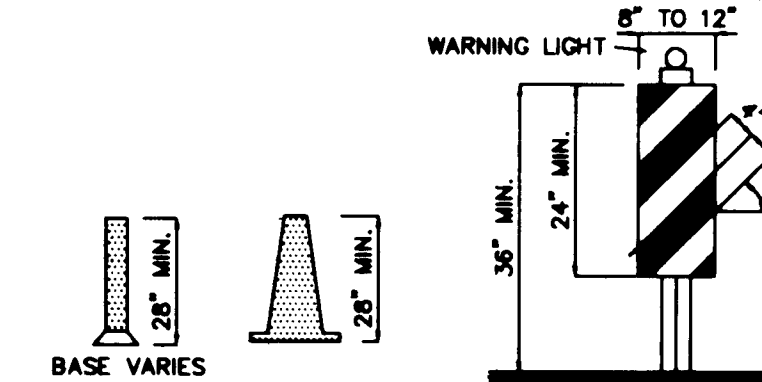


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

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.



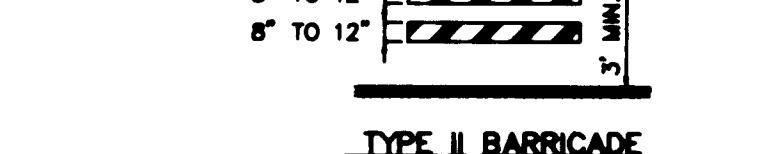
TYPE III BARRICADE



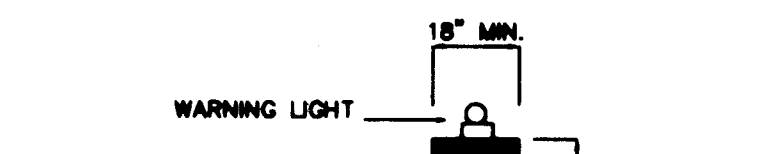
TYPE II BARRICADE



TYPE I BARRICADE



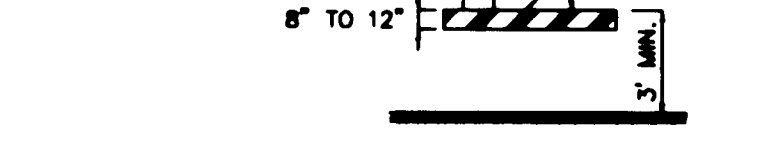
TYPE II BARRICADE



TYPE I BARRICADE



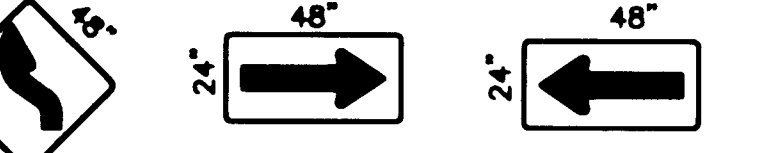
TYPE II BARRICADE



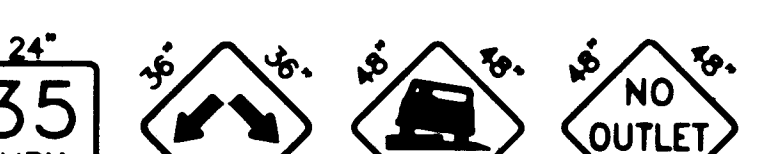
TYPE I BARRICADE



TYPE II BARRICADE



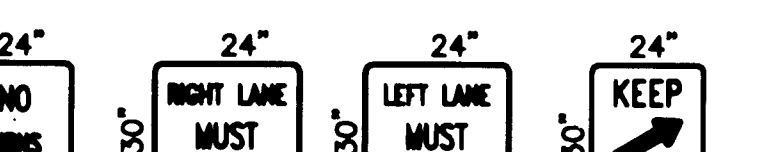
TYPE I BARRICADE



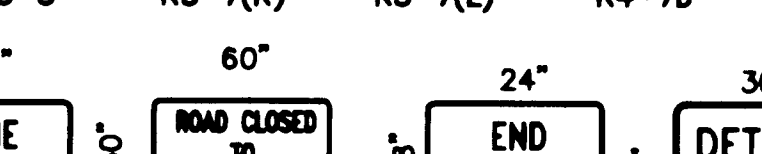
TYPE II BARRICADE



TYPE I BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE



TYPE II BARRICADE



TYPE I BARRICADE

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

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 (MPH)	MINIMUM DISTANCE 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

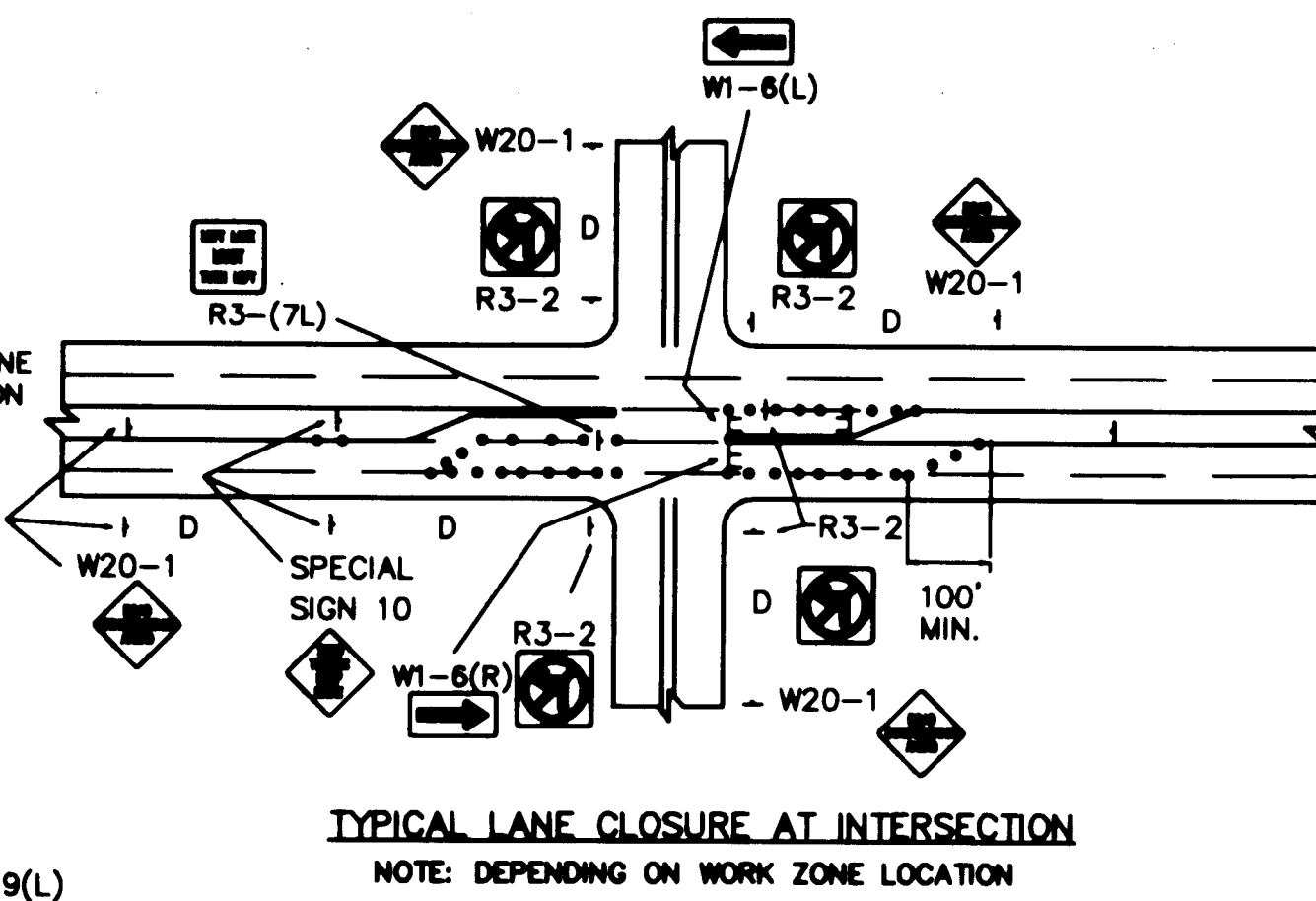
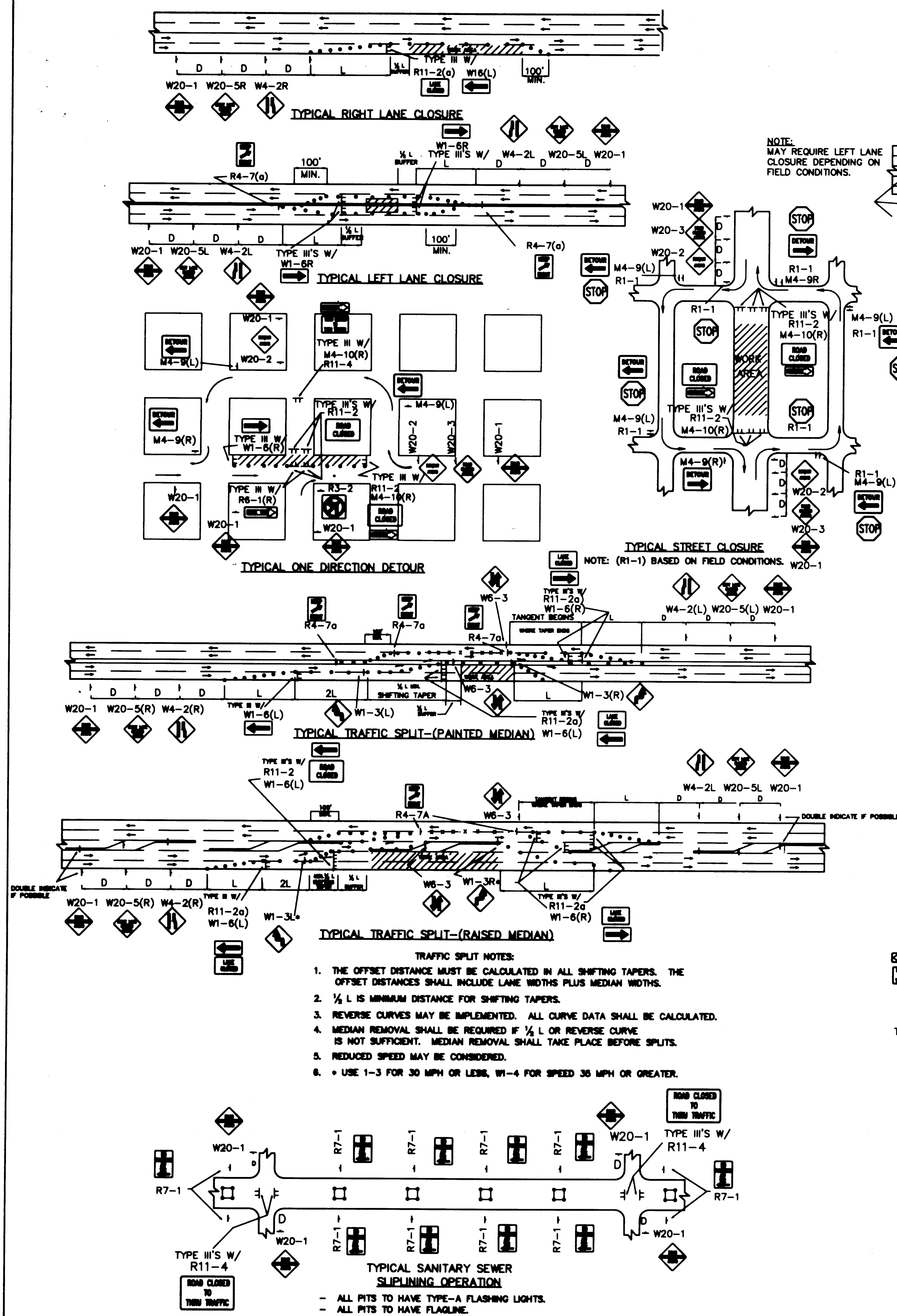
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTER TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

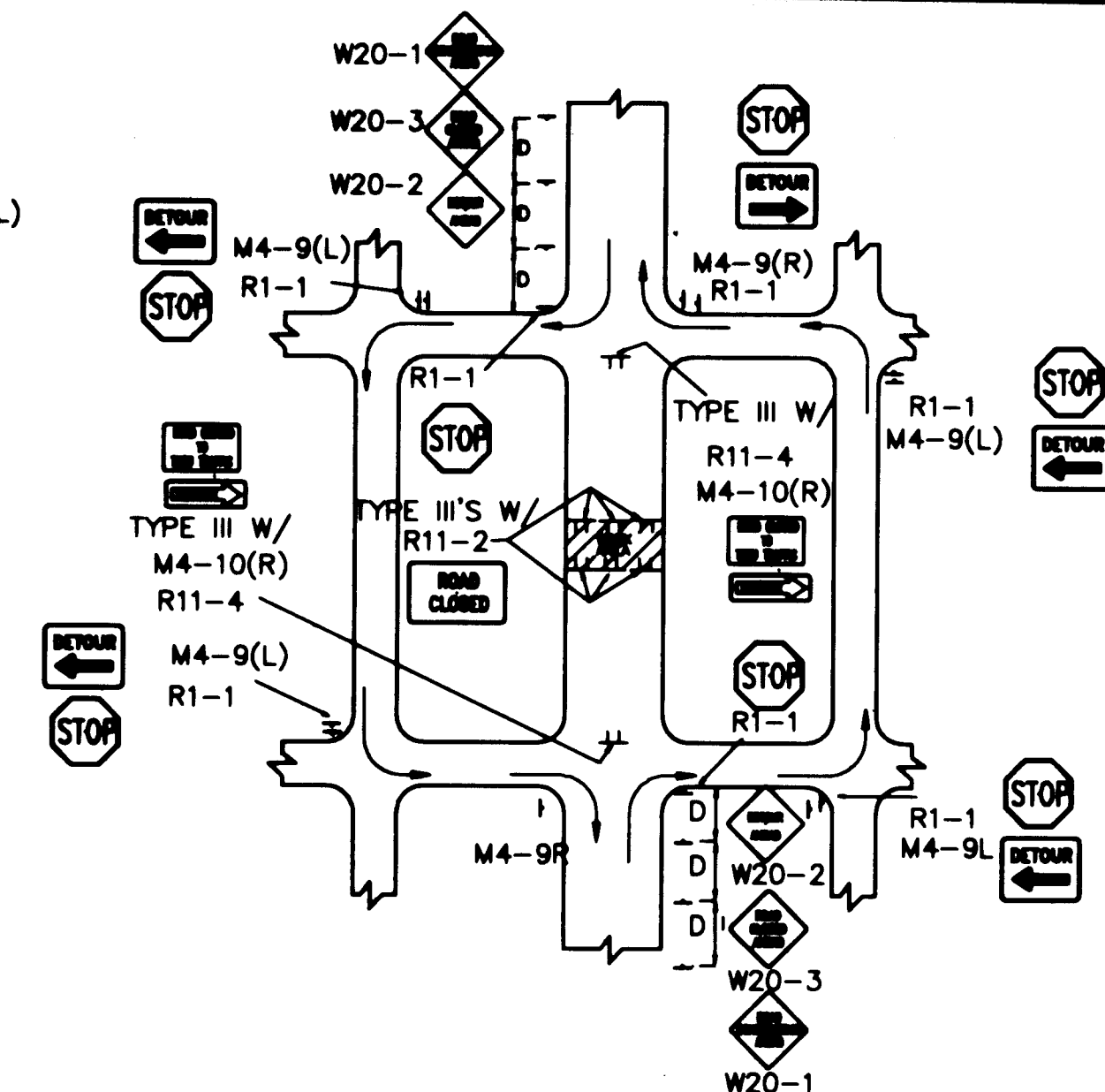
SPEED LIMIT	L =
40 MPH OR LESS	$L = \frac{W^2}{80}$
45 MPH OR GREATER	$L = W \times S$

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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUNRISE SUBDIVISION					
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-28-94	WATER	<i>[Signature]</i>	2-9-94
TRANSPORTATION	<i>[Signature]</i>	2-15-94	WASTE WATER	<i>[Signature]</i>	2-9-94
HYDROLOGY	<i>[Signature]</i>	2-17-94			
PROJECT NO. 4849.90		MAP NO. K-9		SHEET 4 OF 16	

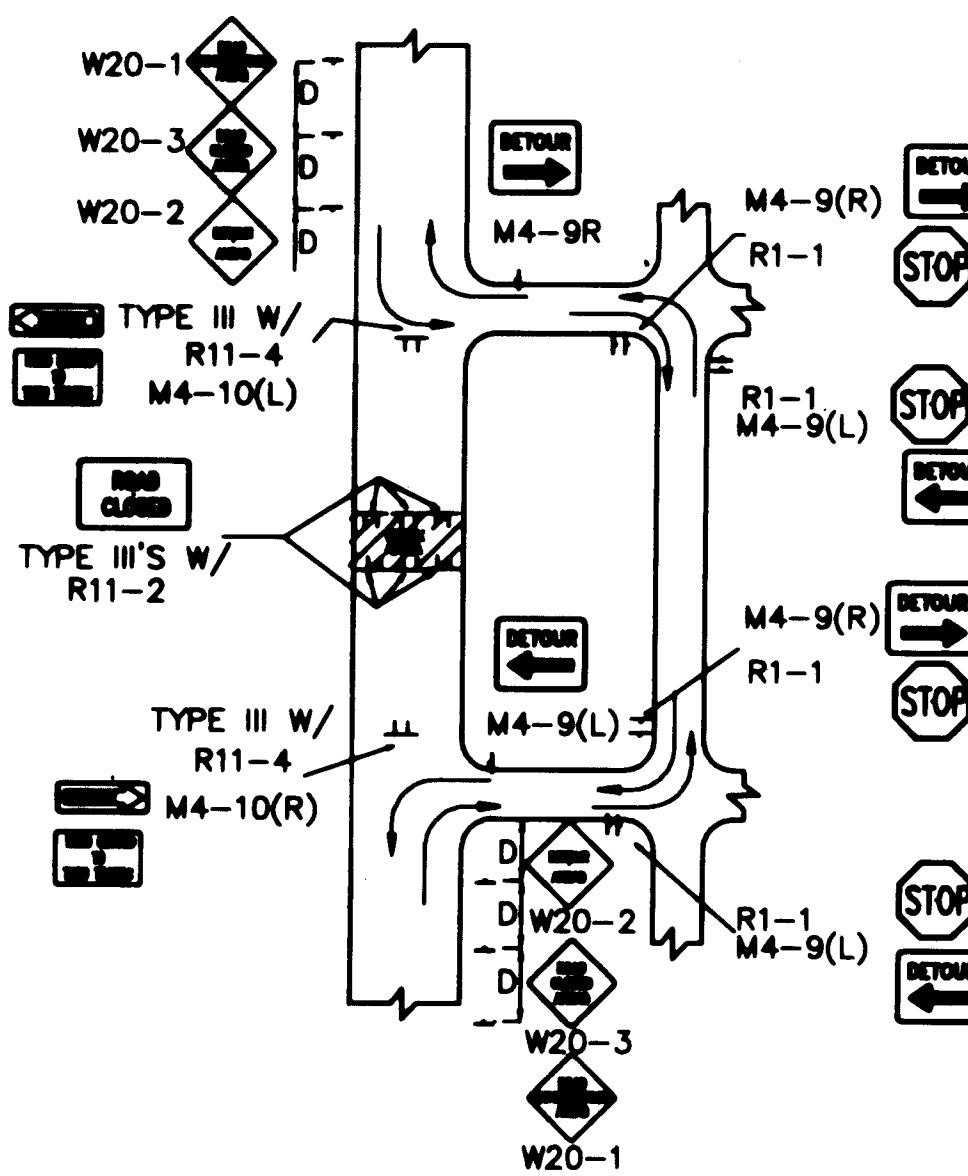


RECORD DRAWING



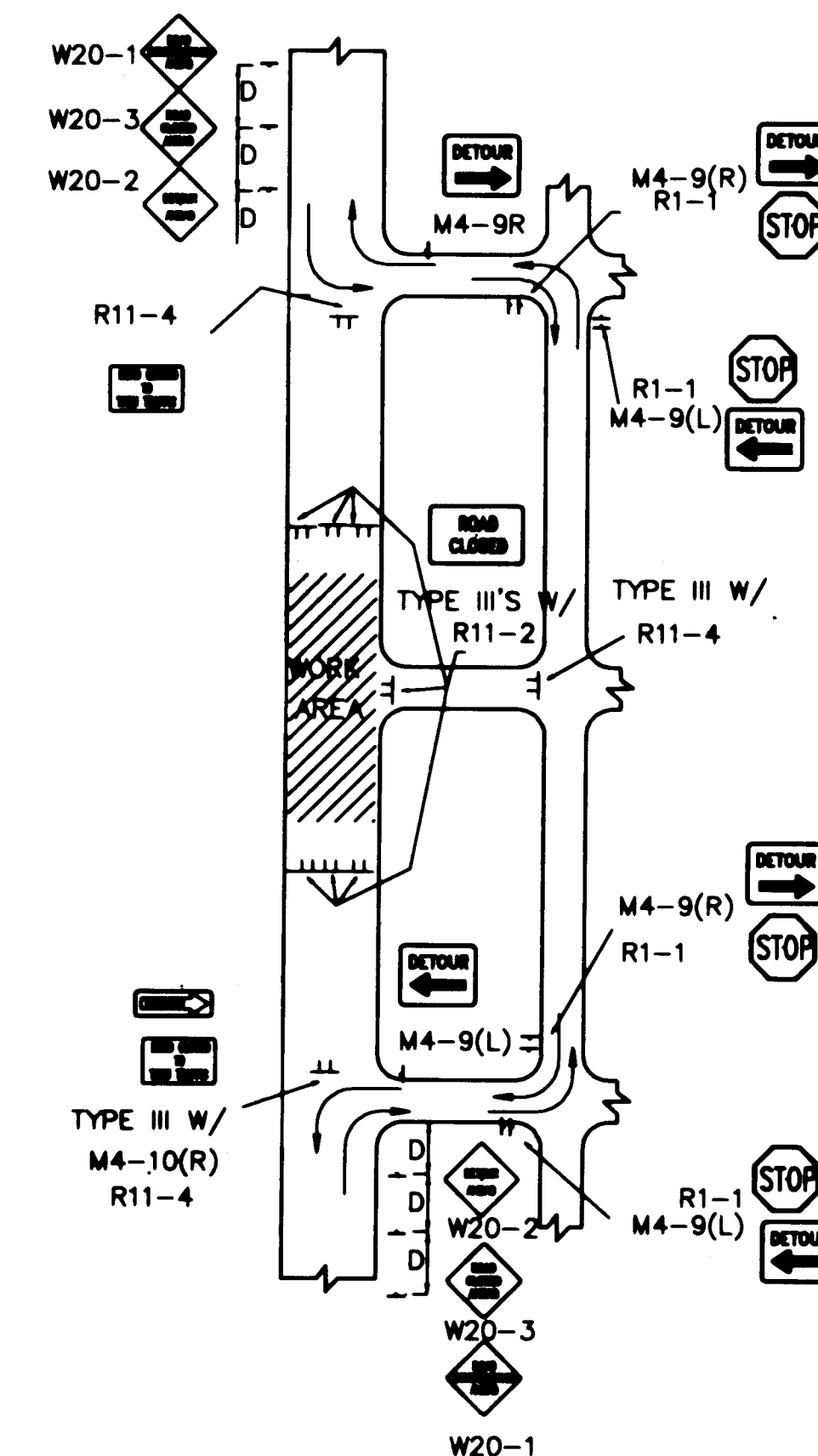
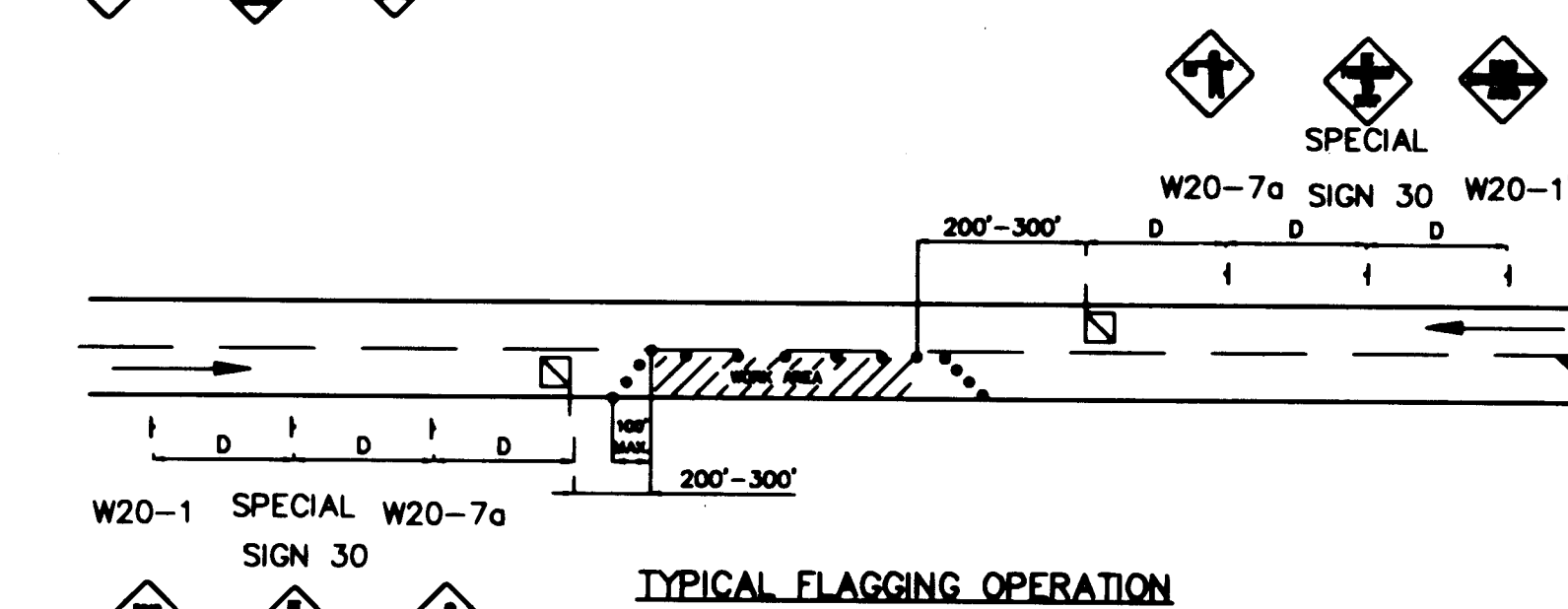
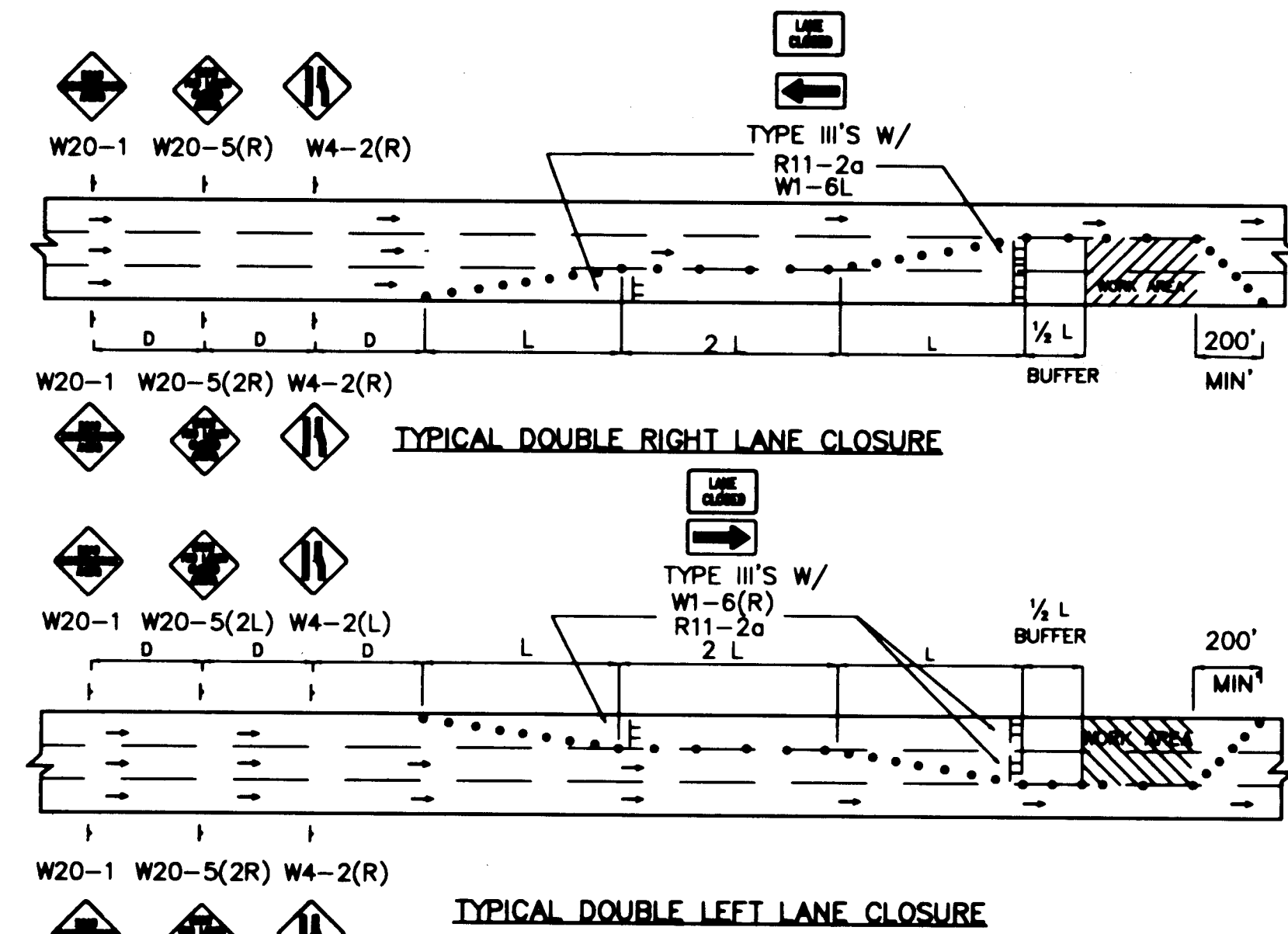
TYPICAL MID-BLOCK CLOSURE

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



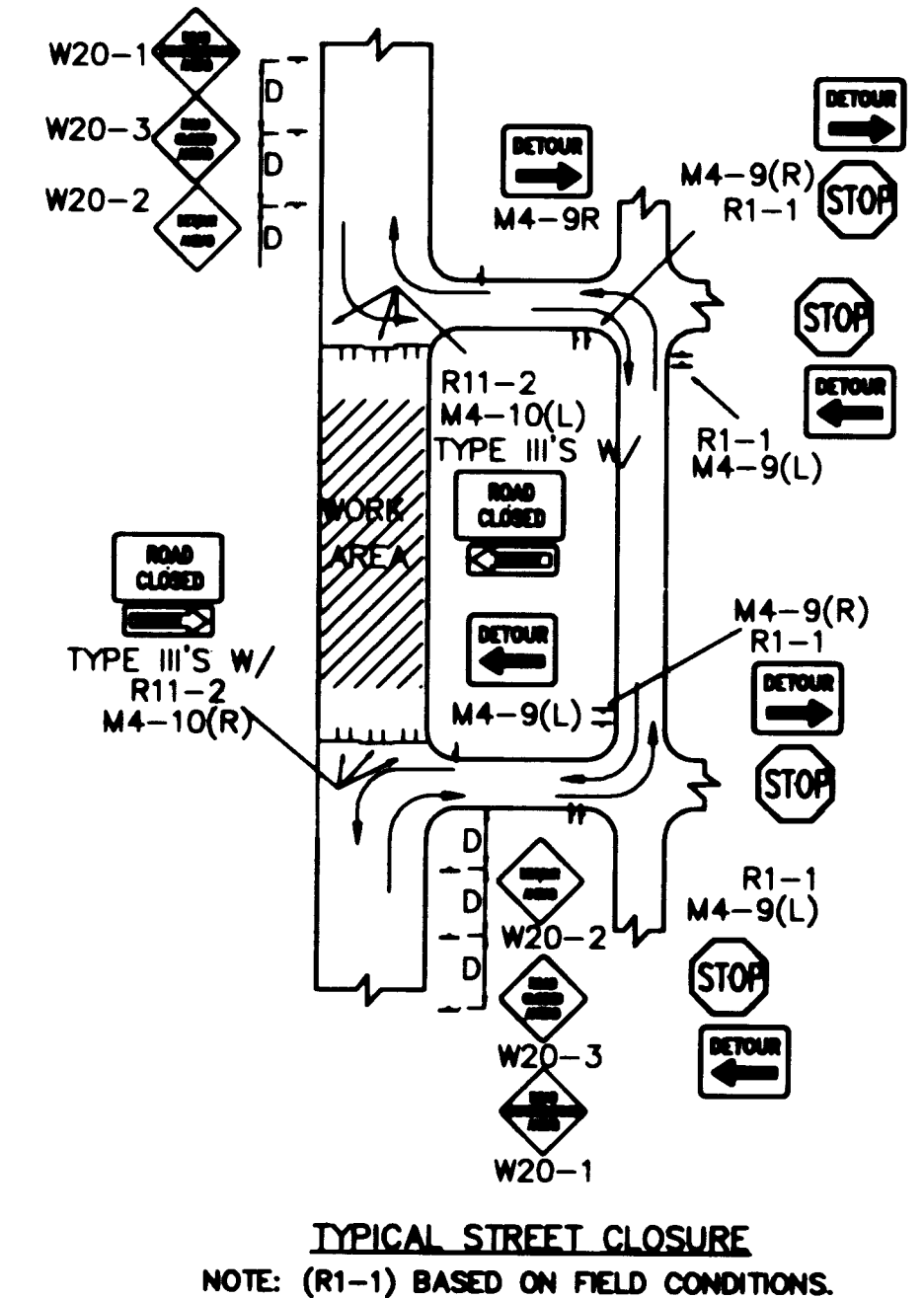
TYPICAL STREET CLOSURE

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

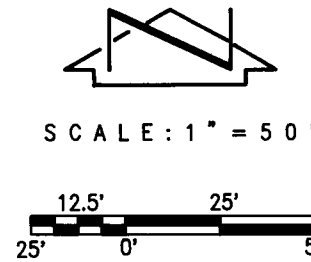


TYPICAL STREET CLOSURE

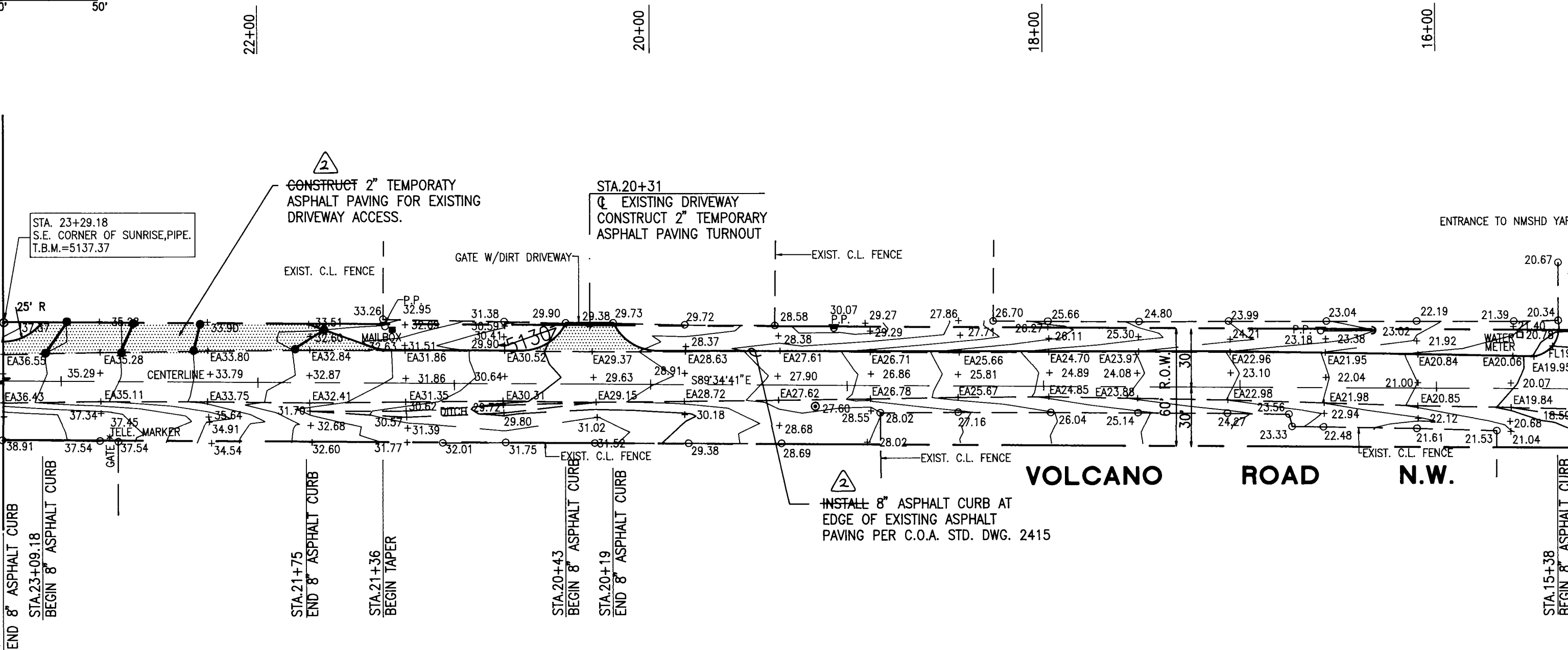
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUNRISE SUBDIVISION TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.G.B.	2-28-94	WATER	N/A	RWE 2-2-94
TRANSPORTATION	N/A	2-15-94	WASTE WATER	N/A	RWE 2-2-94
HYDROLOGY	N/A	2-17-94			
PROJECT NO.	4849.90		MAP NO.	K-9	
SHEET		OF		5 16	

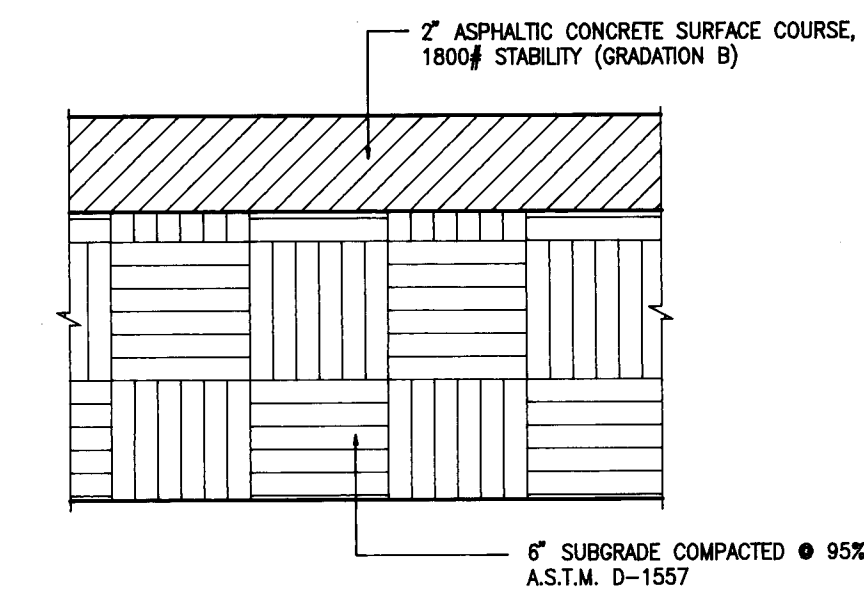
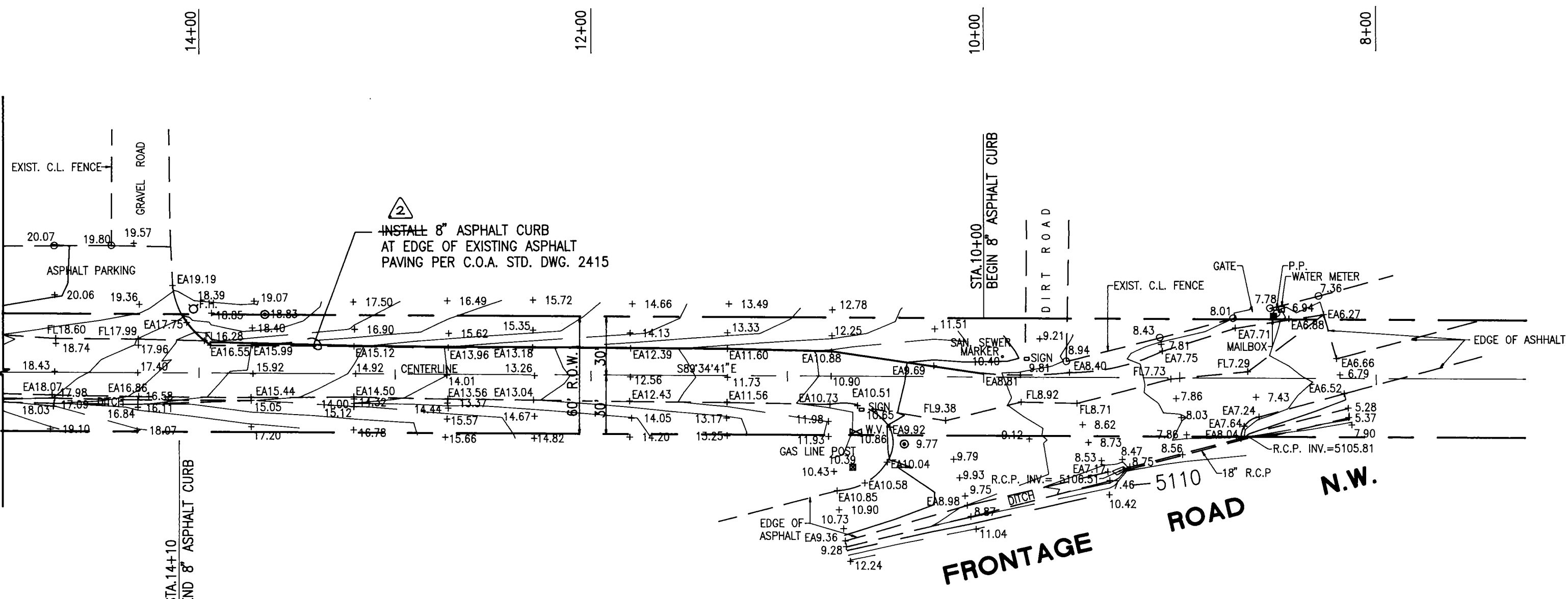


MATCH LINE STA. 23+29.18
FOR CONTINUATION SEE SHEET 7

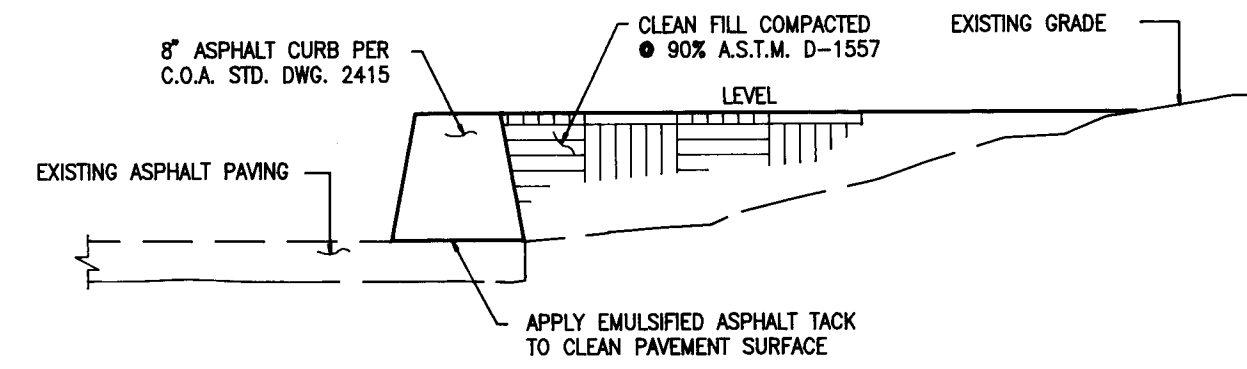


MATCH LINE STA. 15+00.00
FOR CONTINUATION SEE BELOW

MATCH LINE STA. 15+00.00
FOR CONTINUATION SEE ABOVE



TYPICAL TEMPORARY PAVING SECTION
SCALE: 1" = 4'



TYPICAL ASPHALT CURB SECTION
SCALE: 1" = 1'-0"

RECORD DRAWING

216 4849 9100894

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
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
No. 8547
Date 2-17-94

DESIGNED BY J.G.M.
DRAWN BY ACAD
CHECKED BY J.G.M.

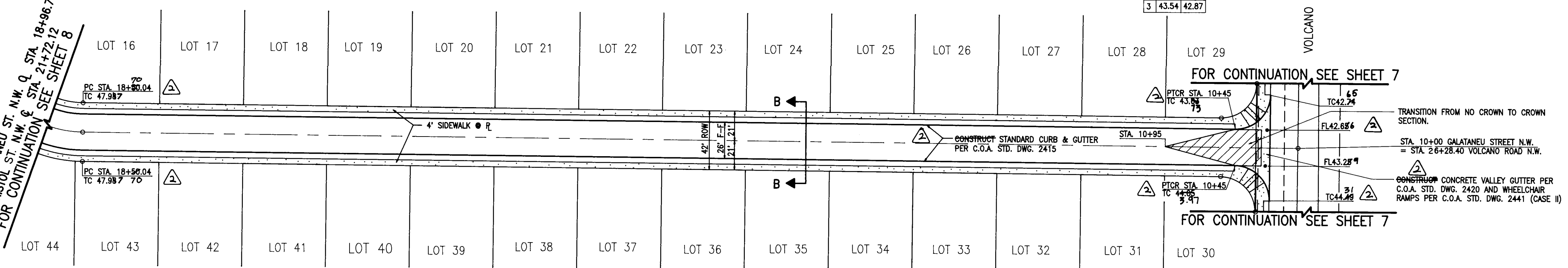
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUNRISE SUBDIVISION OFFSITE PAVING IMPROVEMENTS VOLCANO ROAD N.W. STA. 10+00 TO STA. 23+29.18					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	2-28-94	WATER	N/A RWK	2-9-94
TRANSPORTATION	<i>[Signature]</i>	2-17-94	WASTE WATER	N/A RWK	2-9-94
HYDROLOGY	<i>[Signature]</i>	2-17-94			
PROJECT NO. 4849.90			MAP NO. K-9		SHEET 8 OF 16

RECORD DRAWING

- STREET PAVING IMPROVEMENTS
1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON STREET CENTERLINE STATIONING.
 2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
 3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE - OF - CURB.
 4. ALL WHEEL CHAIR RAMPS MUST BE CONSTRUCTED UNDER THIS WORK ORDER.
 5. ALL CURB AND GUTTER SHOWN HEREDIN SHALL BE STANDARD CURB AND GUTTER PER CITY OF ALBUQUERQUE STANDARD DRAWING 2415.

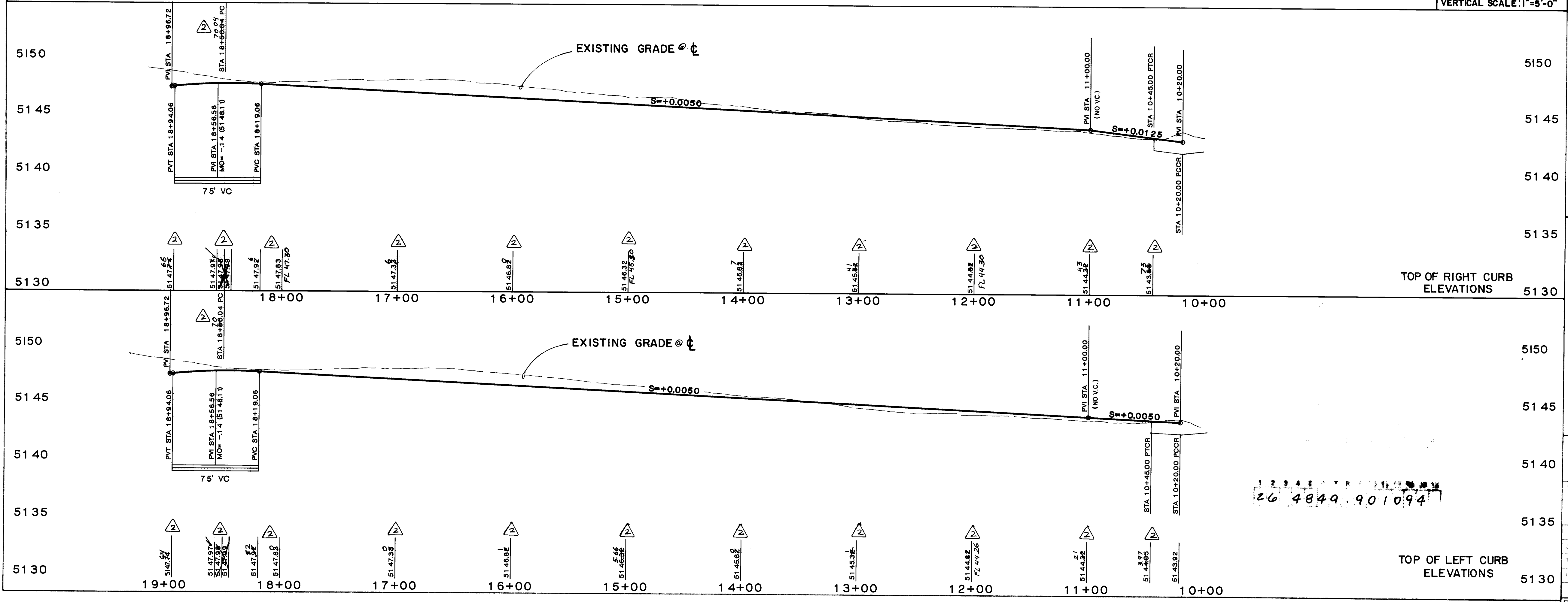
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94	
DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94	
DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94		DATE: 10/01/94 BY: JMA INSPECTOR: JMA DATE: 10/01/94	

EQUATION: GALATANEU ST. N.W. Q. STA. 18+96.72
= BRISTOL ST. N.W. Q. STA. 21+72.12
FOR CONTINUATION SEE SHEET 8



GALATANEU STREET N.W.

HORIZONTAL SCALE: 1"=50'-0"
VERTICAL SCALE: 1"=8'-0"



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
Professional Engineer
New Mexico
12.14.94

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE SUNRISE SUBDIVISION PAVING IMPROVEMENTS-PLAN & PROFILE GALATANEU STREET N.W.- STA. 10+20 TO STA. 18+96.72			
APPROVALS	ENGINEER	DATE	APPROVALS
ENGINEER	DATE	ENGINEER	DATE
TRANSPORTATION	DATE	WASTE WATER	DATE
HYDROLOGY	DATE	DATE	DATE
PROJECT NO.	4849.90	MAP NO.	K-9
SHEET OF		10 16	

SCANNED BY
BY LARSON

RECORD	DRAWING
--------	---------

STREET PAVING IMPROVEMENTS

1. ALL SLOPES AS SHOWN ON PROFILES ARE BASED ON CENTERLINE STATIONING UNLESS OTHERWISE NOTED.
2. WHERE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK OR PAVEMENT IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND RER REMVE TO THE NEAREST JOINT. CURB AND GUTTER SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
3. ALL DIMENSIONS OF CURB AND CURB RETURNS ARE SHOWN TO FACE OF CURB.
4. CONTRACTOR SHALL ADJUST TO GRADE ALL VALVE BOXES AND MANHOLES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS.
5. 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 UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, 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.

AS BUILT INFORMATION

DATE 10/94

DATE 10/94
DRAWINGS STILL
VERIFICATION BY JMA
DATE 10/94

MICRO-FILM INFORMATION

1. $\alpha = 0.05$, $\beta = 0.80$, $n = 100$, $\mu = 0.5$, $\sigma = 0.1$, $\mu_0 = 0.4$, $\mu_1 = 0.6$, $\mu_2 = 0.7$, $\mu_3 = 0.8$, $\mu_4 = 0.9$, $\mu_5 = 1.0$, $\mu_6 = 1.1$, $\mu_7 = 1.2$, $\mu_8 = 1.3$, $\mu_9 = 1.4$, $\mu_{10} = 1.5$, $\mu_{11} = 1.6$, $\mu_{12} = 1.7$, $\mu_{13} = 1.8$, $\mu_{14} = 1.9$, $\mu_{15} = 2.0$, $\mu_{16} = 2.1$, $\mu_{17} = 2.2$, $\mu_{18} = 2.3$, $\mu_{19} = 2.4$, $\mu_{20} = 2.5$, $\mu_{21} = 2.6$, $\mu_{22} = 2.7$, $\mu_{23} = 2.8$, $\mu_{24} = 2.9$, $\mu_{25} = 3.0$, $\mu_{26} = 3.1$, $\mu_{27} = 3.2$, $\mu_{28} = 3.3$, $\mu_{29} = 3.4$, $\mu_{30} = 3.5$, $\mu_{31} = 3.6$, $\mu_{32} = 3.7$, $\mu_{33} = 3.8$, $\mu_{34} = 3.9$, $\mu_{35} = 4.0$, $\mu_{36} = 4.1$, $\mu_{37} = 4.2$, $\mu_{38} = 4.3$, $\mu_{39} = 4.4$, $\mu_{40} = 4.5$, $\mu_{41} = 4.6$, $\mu_{42} = 4.7$, $\mu_{43} = 4.8$, $\mu_{44} = 4.9$, $\mu_{45} = 5.0$, $\mu_{46} = 5.1$, $\mu_{47} = 5.2$, $\mu_{48} = 5.3$, $\mu_{49} = 5.4$, $\mu_{50} = 5.5$, $\mu_{51} = 5.6$, $\mu_{52} = 5.7$, $\mu_{53} = 5.8$, $\mu_{54} = 5.9$, $\mu_{55} = 6.0$, $\mu_{56} = 6.1$, $\mu_{57} = 6.2$, $\mu_{58} = 6.3$, $\mu_{59} = 6.4$, $\mu_{60} = 6.5$, $\mu_{61} = 6.6$, $\mu_{62} = 6.7$, $\mu_{63} = 6.8$, $\mu_{64} = 6.9$, $\mu_{65} = 7.0$, $\mu_{66} = 7.1$, $\mu_{67} = 7.2$, $\mu_{68} = 7.3$, $\mu_{69} = 7.4$, $\mu_{70} = 7.5$, $\mu_{71} = 7.6$, $\mu_{72} = 7.7$, $\mu_{73} = 7.8$, $\mu_{74} = 7.9$, $\mu_{75} = 8.0$, $\mu_{76} = 8.1$, $\mu_{77} = 8.2$, $\mu_{78} = 8.3$, $\mu_{79} = 8.4$, $\mu_{80} = 8.5$, $\mu_{81} = 8.6$, $\mu_{82} = 8.7$, $\mu_{83} = 8.8$, $\mu_{84} = 8.9$, $\mu_{85} = 9.0$, $\mu_{86} = 9.1$, $\mu_{87} = 9.2$, $\mu_{88} = 9.3$, $\mu_{89} = 9.4$, $\mu_{90} = 9.5$, $\mu_{91} = 9.6$, $\mu_{92} = 9.7$, $\mu_{93} = 9.8$, $\mu_{94} = 9.9$, $\mu_{95} = 10.0$, $\mu_{96} = 10.1$, $\mu_{97} = 10.2$, $\mu_{98} = 10.3$, $\mu_{99} = 10.4$, $\mu_{100} = 10.5$, $\mu_{101} = 10.6$, $\mu_{102} = 10.7$, $\mu_{103} = 10.8$, $\mu_{104} = 10.9$, $\mu_{105} = 11.0$, $\mu_{106} = 11.1$, $\mu_{107} = 11.2$, $\mu_{108} = 11.3$, $\mu_{109} = 11.4$, $\mu_{110} = 11.5$, $\mu_{111} = 11.6$, $\mu_{112} = 11.7$, $\mu_{113} = 11.8$, $\mu_{114} = 11.9$, $\mu_{115} = 12.0$, $\mu_{116} = 12.1$, $\mu_{117} = 12.2$, $\mu_{118} = 12.3$, $\mu_{119} = 12.4$, $\mu_{120} = 12.5$, $\mu_{121} = 12.6$, $\mu_{122} = 12.7$, $\mu_{123} = 12.8$, $\mu_{124} = 12.9$, $\mu_{125} = 13.0$, $\mu_{126} = 13.1$, $\mu_{127} = 13.2$, $\mu_{128} = 13.3$, $\mu_{129} = 13.4$, $\mu_{130} = 13.5$, $\mu_{131} = 13.6$, $\mu_{132} = 13.7$, $\mu_{133} = 13.8$, $\mu_{134} = 13.9$, $\mu_{135} = 14.0$, $\mu_{136} = 14.1$, $\mu_{137} = 14.2$, $\mu_{138} = 14.3$, $\mu_{139} = 14.4$, $\mu_{140} = 14.5$, $\mu_{141} = 14.6$, $\mu_{142} = 14.7$, $\mu_{143} = 14.8$, $\mu_{144} = 14.9$, $\mu_{145} = 15.0$, $\mu_{146} = 15.1$, $\mu_{147} = 15.2$, $\mu_{148} = 15.3$, $\mu_{149} = 15.4$, $\mu_{150} = 15.5$, $\mu_{151} = 15.6$, $\mu_{152} = 15.7$, $\mu_{153} = 15.8$, $\mu_{154} = 15.9$, $\mu_{155} = 16.0$, $\mu_{156} = 16.1$, $\mu_{157} = 16.2$, $\mu_{158} = 16.3$, $\mu_{159} = 16.4$, $\mu_{160} = 16.5$, $\mu_{161} = 16.6$, $\mu_{162} = 16.7$, $\mu_{163} = 16.8$, $\mu_{164} = 16.9$, $\mu_{165} = 17.0$, $\mu_{166} = 17.1$, $\mu_{167} = 17.2$, $\mu_{168} = 17.3$, $\mu_{169} = 17.4$, $\mu_{170} = 17.5$, $\mu_{171} = 17.6$, $\mu_{172} = 17.7$, $\mu_{173} = 17.8$, $\mu_{174} = 17.9$, $\mu_{175} = 18.0$, $\mu_{176} = 18.1$, $\mu_{177} = 18.2$, $\mu_{178} = 18.3$, $\mu_{179} = 18.4$, $\mu_{180} = 18.5$, $\mu_{181} = 18.6$, $\mu_{182} = 18.7$, $\mu_{183} = 18.8$, $\mu_{184} = 18.9$, $\mu_{185} = 19.0$, $\mu_{186} = 19.1$, $\mu_{187} = 19.2$, $\mu_{188} = 19.3$, $\mu_{189} = 19.4$, $\mu_{190} = 19.5$, $\mu_{191} = 19.6$, $\mu_{192} = 19.7$, $\mu_{193} = 19.8$, $\mu_{194} = 19.9$, $\mu_{195} = 20.0$, $\mu_{196} = 20.1$, $\mu_{197} = 20.2$, $\mu_{198} = 20.3$, $\mu_{199} = 20.4$, $\mu_{200} = 20.5$, $\mu_{201} = 20.6$, $\mu_{202} = 20.7$, $\mu_{203} = 20.8$, $\mu_{204} = 20.9$, $\mu_{205} = 21.0$, $\mu_{206} = 21.1$, $\mu_{207} = 21.2$, $\mu_{208} = 21.3$, $\mu_{209} = 21.4$, $\mu_{210} = 21.5$, $\mu_{211} = 21.6$, $\mu_{212} = 21.7$, $\mu_{213} = 21.8$, $\mu_{214} = 21.9$, $\mu_{215} = 22.0$, $\mu_{216} = 22.1$, $\mu_{217} = 22.2$, $\mu_{218} = 22.3$, $\mu_{219} = 22.4$, $\mu_{220} = 22.5$, $\mu_{221} = 22.6$, $\mu_{222} = 22.7$, $\mu_{223} = 22.8$, $\mu_{224} = 22.9$, $\mu_{225} = 23.0$, $\mu_{226} = 23.1$, $\mu_{227} = 23.2$, $\mu_{228} = 23.3$, $\mu_{229} = 23.4$, $\mu_{230} = 23.5$, $\mu_{231} = 23.6$, $\mu_{232} = 23.7$, $\mu_{233} = 23.8$, $\mu_{234} = 23.9$, $\mu_{235} = 24.0</$

90th

ST. N.W.

STA. 24+13.33
AVALON = 90th ST.

LOT B-5

LOT B-4

LOT B-3

STA. 17+53.33

STA. 13 + 33.33

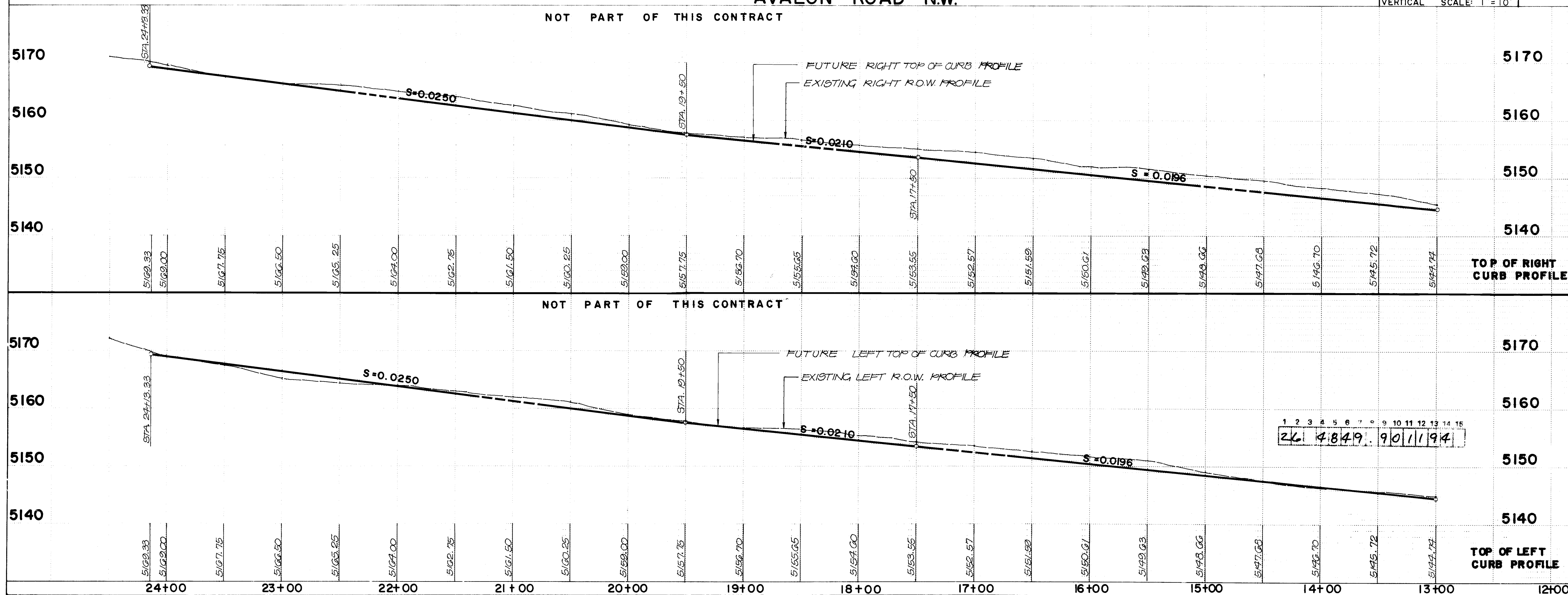
LOT C-53

STREET GRADES ONLY, NOT FOR CONSTRUCTION

AVALON ROAD N.W.

NOT PART OF THIS CONTRACT

HORIZONTAL	SCALE:	1" = 50'
VERTICAL	SCALE:	1" = 10'



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
NEW MEXICO
JEFFREY G. MORTENSEN
NMBE 8147
REGISTERED PROFESSIONAL ENGINEER

12-1494
Date

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

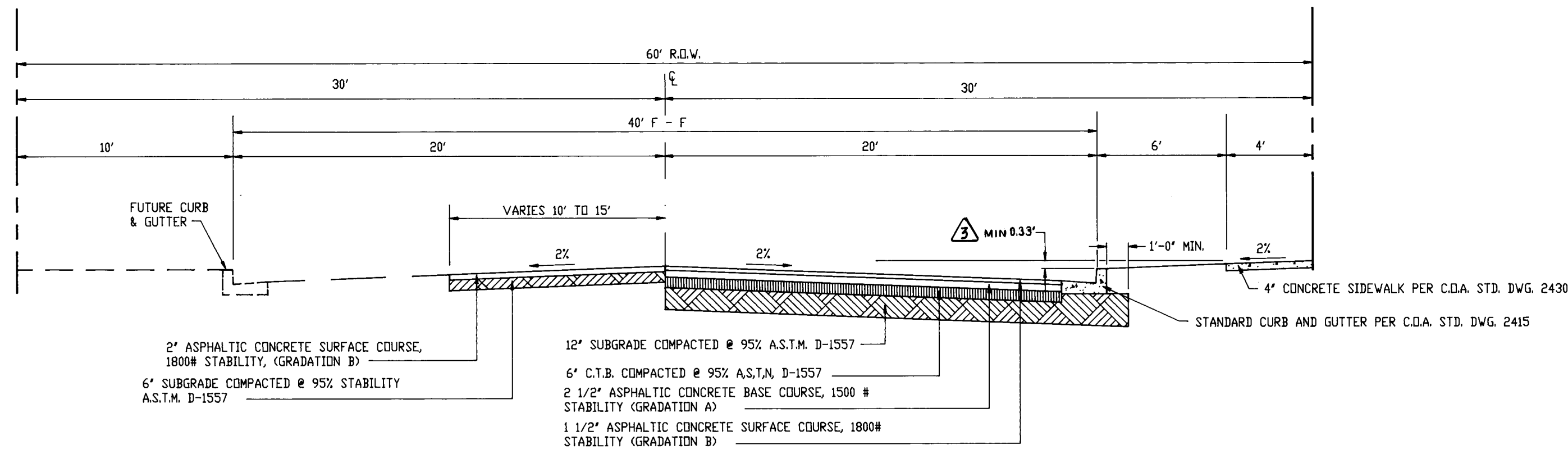
TITLE: SUNRISE SUBDIVISION
AVALON ROAD STREET GRADES
STA. 12+00 TO STA. 25+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ACE-Chairman	B.G. Kelly	2-28-94	Liquid Waste	N/A RWK	2-9-94
ACE-Design	R		Traffic	R B. 231579	
ACE-Hydrology	DN	2/17/94	Water	N/A RWK	2-5-94

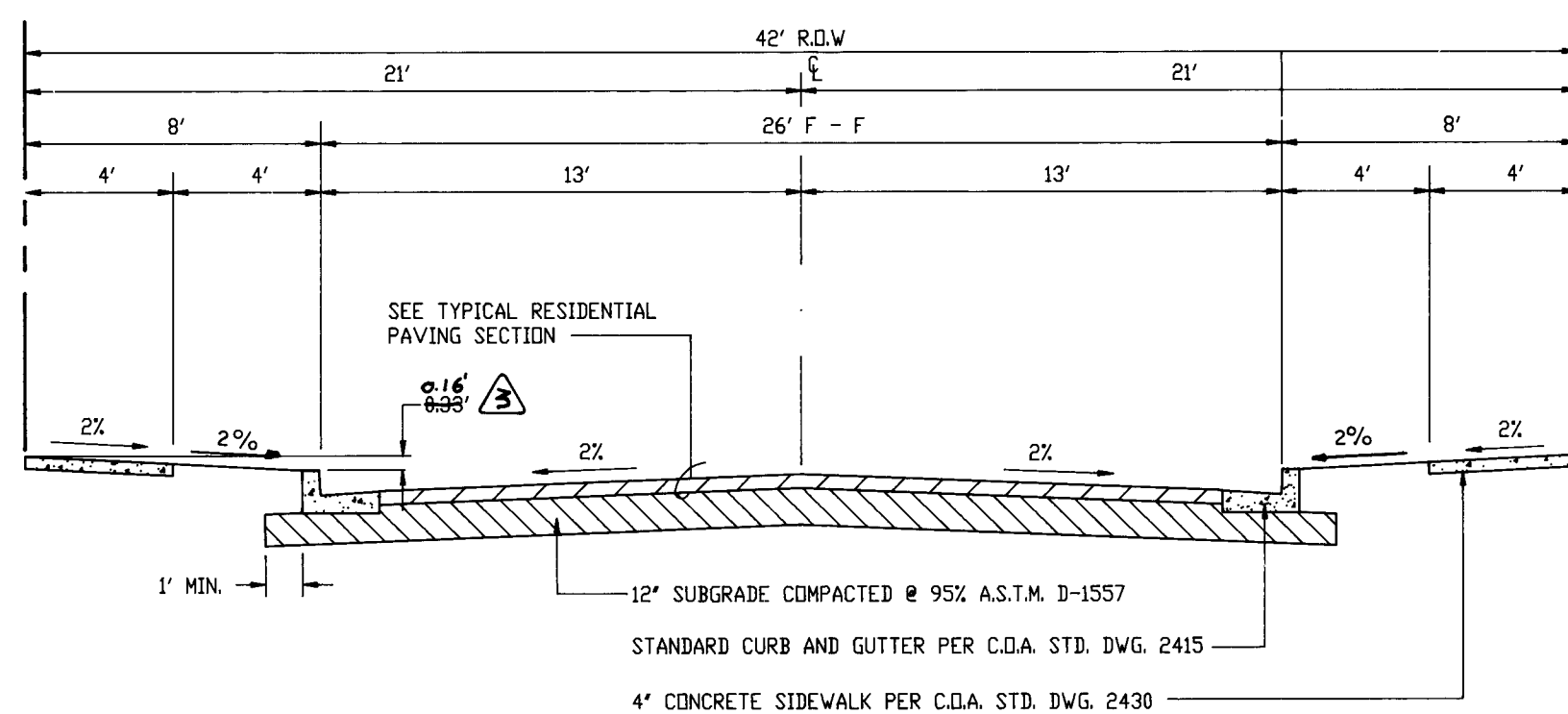
DRAWING NO.		MAP NO.	SHEET	OF
484990		K-9	11	16

SCANNED BY
BY LASON

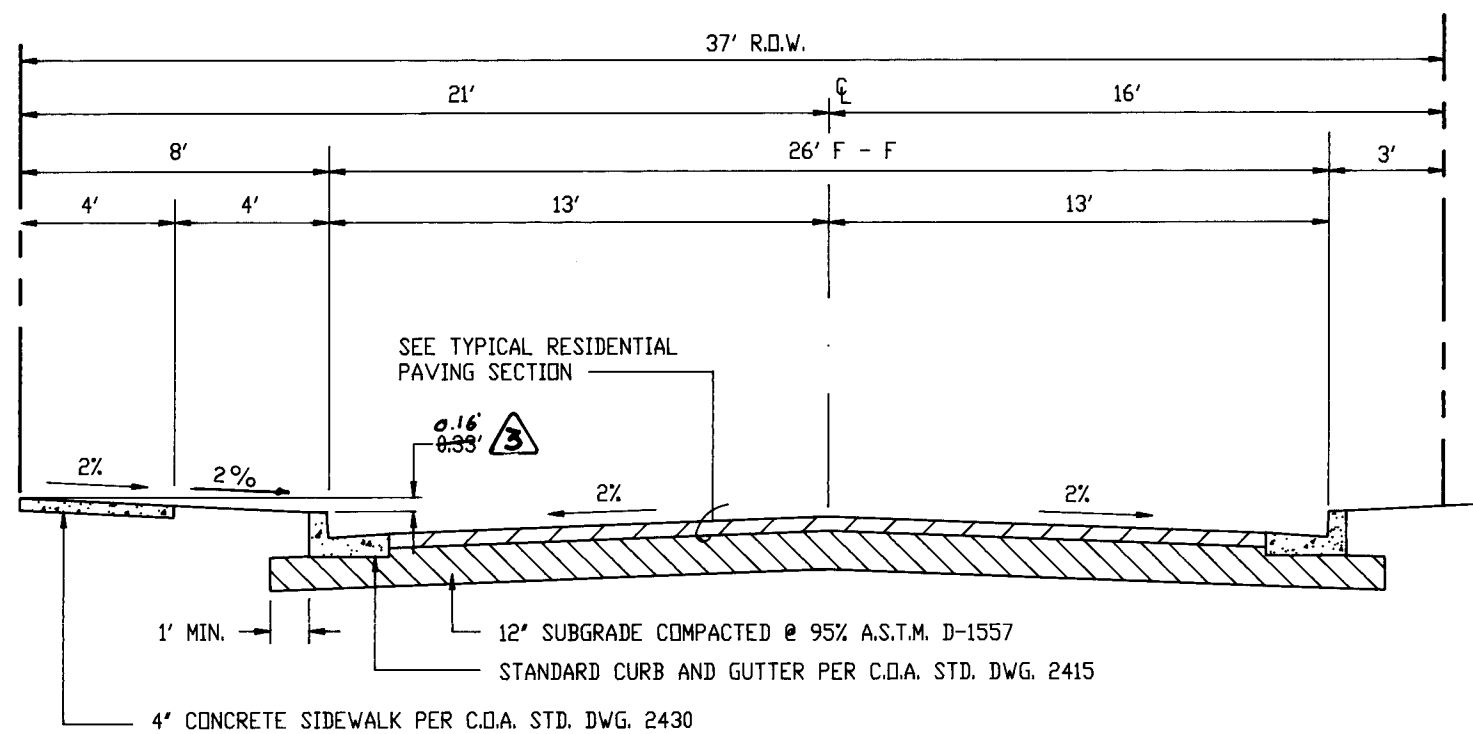
RECORD DRAWING



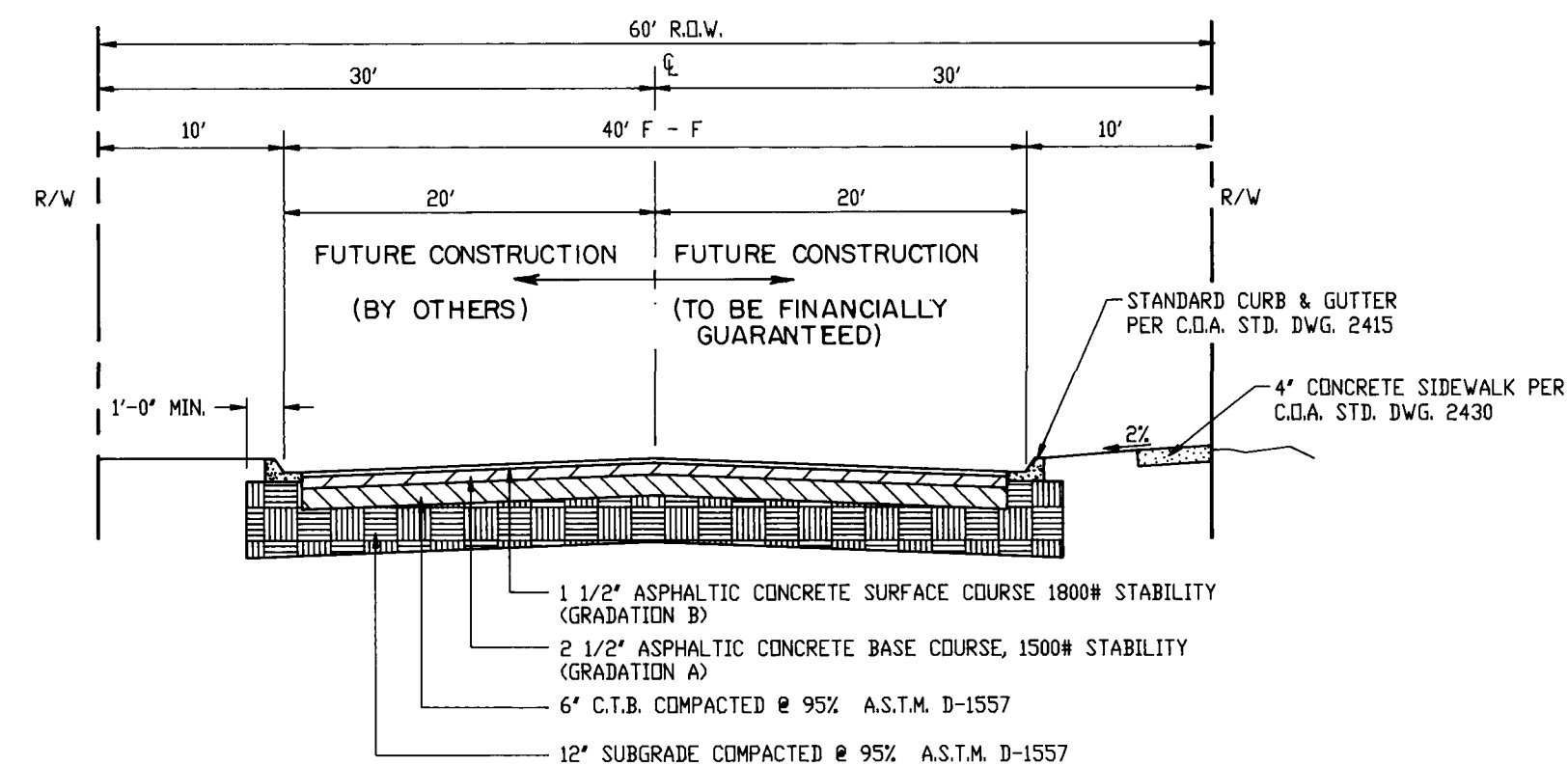
(VOLCANO ROAD N.W.)
SECTION A-A
SCALE: 1" = 5'-0"



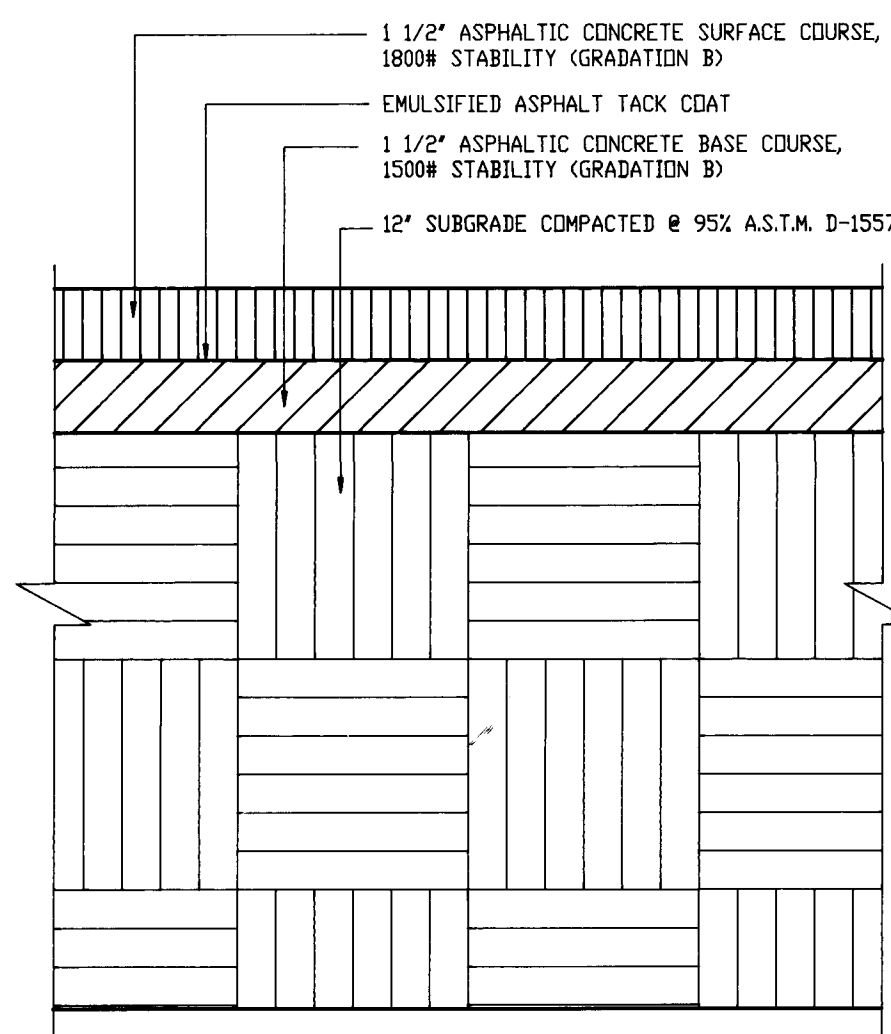
(GALATANEU STREET N.W.)
SECTION B-B
SCALE: 1" = 5'-0"



(BRISTOL ST. N.W.)
SECTION C-C
SCALE: 1" = 5'-0"



(AVALON ROAD N.W.)
SECTION D-D
SCALE: 1" = 10' HORIZONTAL
1" = 4' VERTICAL



TYPICAL RESIDENTIAL PAVEMENT SECTION
SCALE: 1" = 4'

261 4849 9101 2194

SCANNED BY
BY LASON

930616

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.

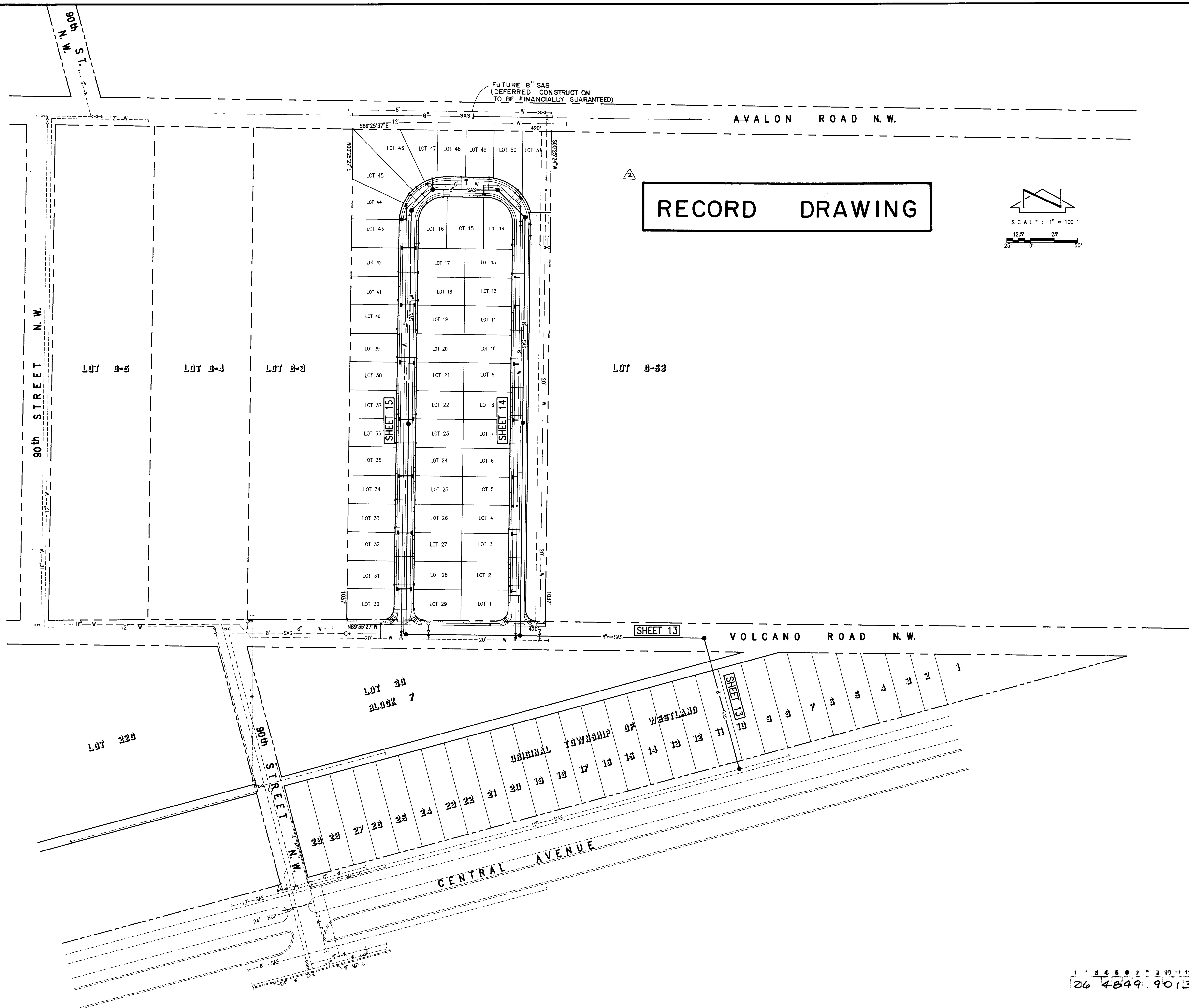
JEFFREY G. MORTENSEN
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
NO. 56854
DATE 2-14-94

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

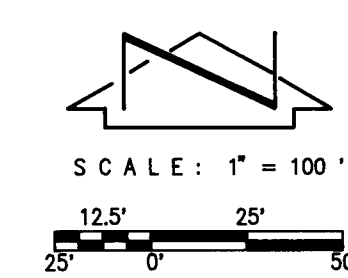
TITLE: SUNRISE SUBDIVISION
SECTIONS AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B. G. Bailey	2-28-94	WATER	N/A RWK	2-2-94
TRANSPORTATION	R. J. J. J.	2-18-94	WASTE WATER	N/A RWK	2-2-94
HYDROLOGY	RD	2-17-94			

PROJECT NO. 4849.90 MAP NO. K-9 SHEET 12 OF 16



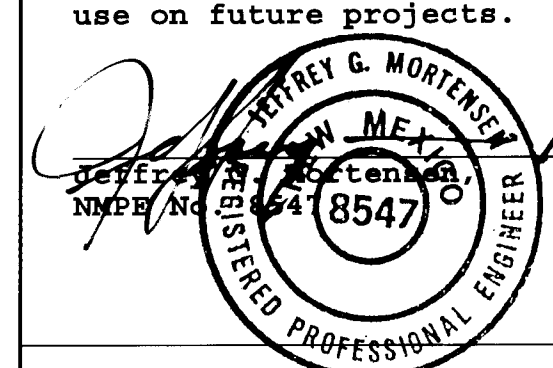
RECORD DRAWING



RECORD DRAWING

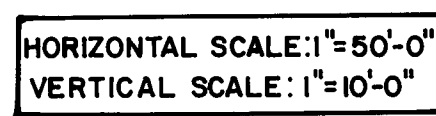
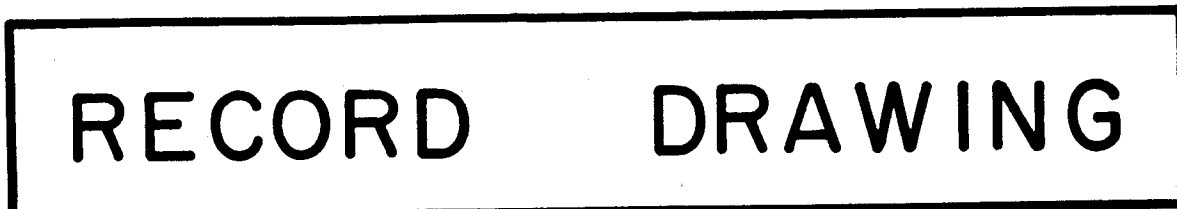
I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief.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

Jeffrey G. Mortensen
12-14-94
Date



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SUNRISE SUBDIVISION WATER AND SANITARY SEWER SITE PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. ...</i>	2-28-94	WATER	<i>R.W. Kane</i>	2-2-94
TRANSPORTATION	<i>R.W. Kane</i>	2-15-94	WASTE WATER	<i>R.W. Kane</i>	2-2-94
HYDROLOGY	<i>DD</i>	2/17/94			
PROJECT NO.	4849.90	MAP NO.	K-9	SHEET	13 OF 16

SURVEY INFORMATION		FIELD NOTES		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE		DATE	
NO.	NA	DATE	1/93	BY	JMA	DATE	1/93	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
CONTRACTOR: SPARLING		A.C.S. BENCHMARK (2-K9) THE STATION IS AN "X" CUT ON THE NORTH BONNET BOLT OF THE FIRE HYDRANT LOCATED AT THE INTERSECTION OF WEST CENTRAL AVENUE AND 90th STREET N.W. ELEVATION = 5144.90 FEET (M.S.L.D.)		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
WORK BY: JMA		DATE: 10/94		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
INSPECTOR'S ACCEPTANCE BY: STU		DATE: 10/94		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
VERIFICATION BY: JMA		DATE: 10/94		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
DRAWINGS CORRECTED BY: STU		DATE: 10/94		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	
MICRO-FILM INFORMATION		RECORDED BY:		NO.		ENGINEER'S SEAL		STU		BY		REMARKS		DESIGN		REVISIONS		DATE		J.G.M.		S.G.H.		J.G.M.		DATE		DATE	



1. ALL STATIONING IS BASED ON STREET CENTERLINE UNLESS INDICATED OTHERWISE.
2. ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY ENGINEER. (SEE NOTE 5.)
3. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102.
4. THE CONTRACTOR SHALL FURNISH ELECTRONIC MARKER DISKS (EMD) ON ALL SEWER AND WATER SERVICE STUBS, CAPS AND PLUGS.
5. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC FOR SANITARY SEWER LINES.
6. ALL PIPE SHALL BE FURNISHED WITH CLASS "C" BEDDING UNLESS OTHERWISE NOTED. ALL TRENCH BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D 1557.
7. WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'-6", THE SEWER LINE SHALL BE CONCRETE ENCASED EACH SIDE OF CROSSING OR PRESSURE PIPE (C 900) MANHOLE TO MANHOLE.

[illegible]

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
 ME
 STATE OF OREGON
 REGISTERED PROFESSIONAL ENGINEER
 8547

Jeffrey Mortensen
 NMEC No. 12-1499
 Date

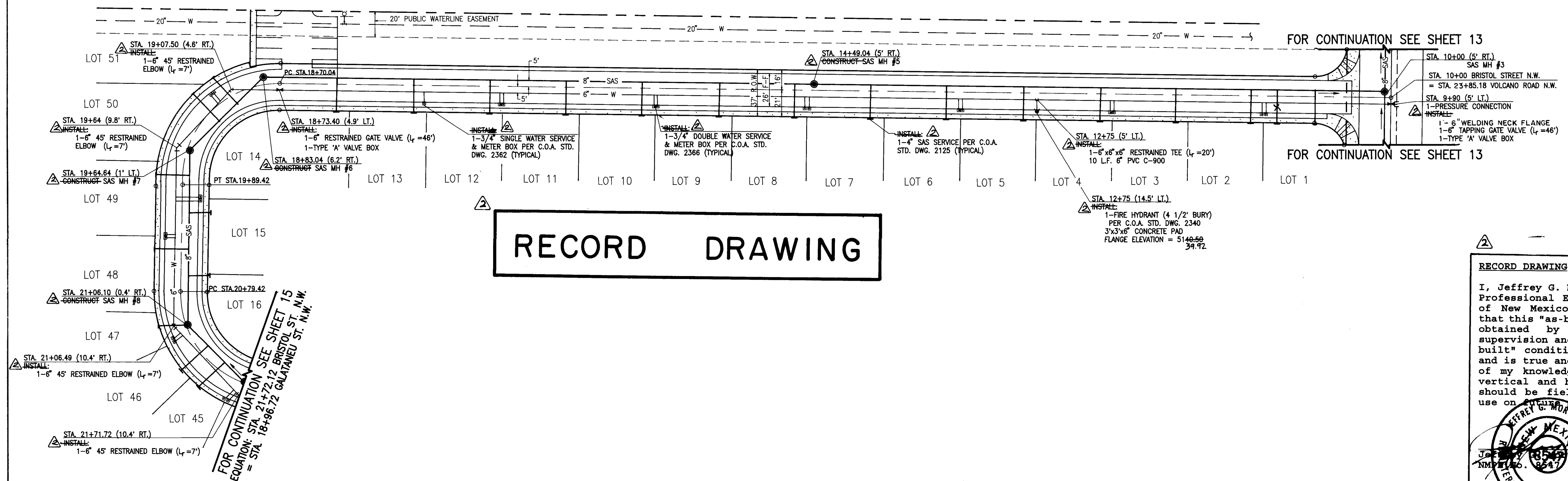
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE SUNRISE SUBDIVISION
SANITARY SEWER EXTENSIONS - PLAN & PROFILE
VOLCANO ROAD NW.~STA.19+97.73 TO STA. 26+23.40

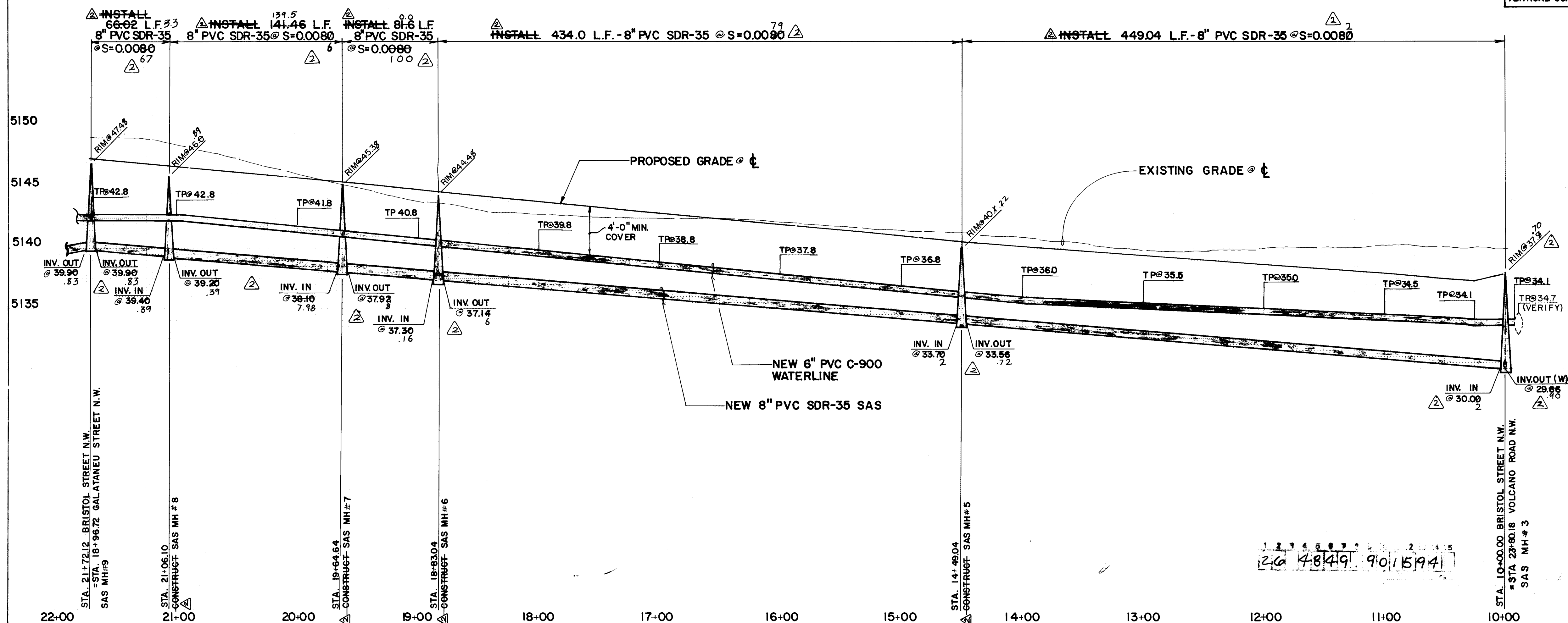
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
FIRE CHIEFMAN	<i>[Signature]</i>	6/22/94	WATER	R.W. Korte	2-8-
TRANSPORTATION	<i>[Signature]</i>	2-16-94	WASTE WATER	R.W. Korte	2-8-
HYDROLOGY	<i>[Signature]</i>	2/17/94			

PROJECT NO.	MAP NO.	SHEET OF
4849.90	K-9	14 16

SCANNED BY
BY LARON



BRISTOL STREET N.W.



- SANITARY SEWER CONSTRUCTION NOTES:
1. ALL STATIONING IS BASED ON STREET CENTER-LINE UNLESS INDICATED OTHERWISE.
 2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
 3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE 'E' AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
 5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 6. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING. IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

- WATERLINE CONSTRUCTION NOTES:
7. ALL STATIONING IS BASED ON STREET CENTER-LINE UNLESS NOTED OTHERWISE.
 8. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 9. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 10. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 11. IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED ON THIS PROJECT.
 12. VALVE STEM AND FIRE HYDRANT EXTENSION SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 13. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION. THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

SANITARY SEWER SERVICE SCHEDULE

LOT	STATION	INV @ P.L.	SIZE
1	10+95.00	5134.68	4"
2	11+05.00	5134.78	4"
3	11+65.00	5135.08	4"
4	12+25.00	5135.38	4"
5	12+85.00	5135.68	4"
6	13+45.00	5135.98	4"
7	14+05.00	5136.28	4"
8	14+65.00	5136.64	4"
9	15+25.00	5137.24	4"
10	15+85.00	5137.84	4"
11	16+45.00	5138.44	4"
12	17+05.00	5139.04	4"
13	17+65.00	5139.64	4"
14	18+25.00	5140.24	4"
15	20+14.42	5142.13	4"
16	20+74.42	5142.73	4"
45	21+50.13	5143.49	4"
46	21+28.12	5143.57	4"
47	21+06.10	5143.35	4"
48	20+46.42	5142.75	4"
49	19+86.21	5142.15	4"
50	19+35.96	5141.65	4"
51	19+13.59	5141.43	4"

WATER SERVICE SCHEDULE

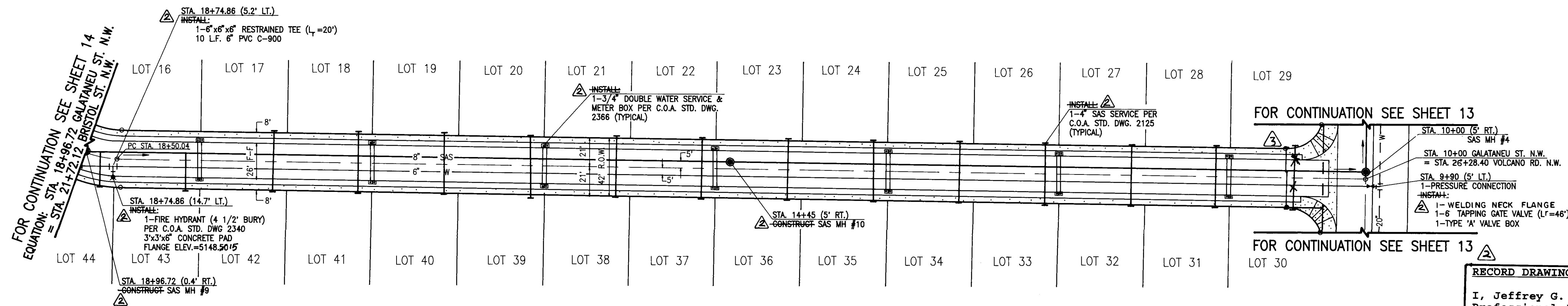
LOT	STATION	TYPE	SIZE
1/2	10+95.00	DOUBLE	3/4"
3/4	12+15.00	DOUBLE	3/4"
5/6	13+35.00	DOUBLE	3/4"
7/8	14+55.00	DOUBLE	3/4"
9/10	15+75.00	DOUBLE	3/4"
11/12	16+95.00	DOUBLE	3/4"
13	17+58.00	SINGLE	3/4"
14/15	20+04.42	DOUBLE	3/4"
44/45	21+62.81	DOUBLE	3/4"
46/47	21+14.20	DOUBLE	3/4"
48/49	20+36.42	DOUBLE	3/4"
50/51	19+24.67	DOUBLE	3/4"

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE
SUNRISE SUBDIVISION
WATER & SAS IMPROVEMENTS-PLAN & PROFILE
BRISTOL STREET N.W. - STA. 9+90 TO STA. 21+72.12

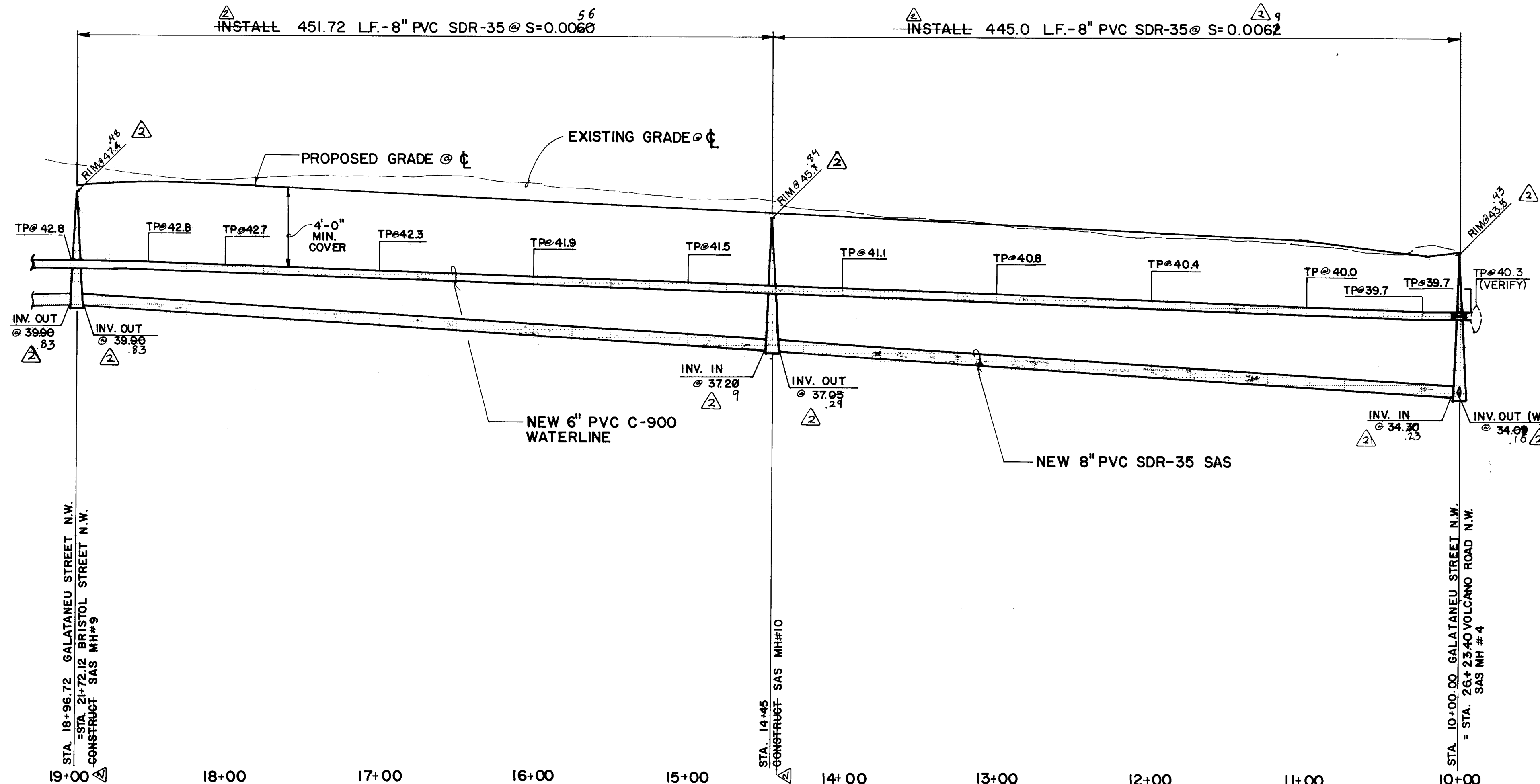
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRK CHAIRMAN	R. W. Kane	2-28-94	WATER	R. W. Kane	2-28-94
TRANSPORTATION	W. R. Kane	2-28-94	WASTE WATER	R. W. Kane	2-28-94
HYDROLOGY	W. R. Kane	2-28-94			

PROJECT NO.	4849.90	MAP NO.	K-9	SHEET OF	15 16
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RECORD DRAWING

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 other projects.
Date 12-14-94
Professional Engineer Seal



- SANITARY SEWER CONSTRUCTION NOTES:
1. ALL STATIONING IS BASED ON STREET CENTER-LINE UNLESS INDICATED OTHERWISE.
 2. ALL SEWER PIPE SHALL BE PVC (SDR-35).
 3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
 4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
 5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. END SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 6. WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
- WATERLINE CONSTRUCTION NOTES:
7. ALL STATIONING IS BASED ON STREET CENTER-LINE UNLESS NOTED OTHERWISE.
 8. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE 12" PVC PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
 9. WATERLINE SHALL HAVE A MINIMUM COVER OF 4'-0" (TOP OF CURB TO TOP OF PIPE). EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
 10. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
 11. IN ACCORDANCE WITH SECTION 801 OF THE STANDARD SPECIFICATIONS, ALL METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
 12. VALVE STEM AND FIRE HYDRANT EXTENSION SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
 13. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

SANITARY SEWER SERVICE SCHEDULE

LOT	STATION	INVERT	P.I.	SIZE
17	10+05.00	17+67.00	5143.84	6"
18	17+67.00	07.00	5143.54	8"
19	16+95.00	07.00	5143.24	8"
20	16+25.00	16+87.00	5142.94	8"
21	15+55.00	27.00	5142.64	8"
22	15+05.00	14+67.00	5142.34	8"
23	14+55.00	07.00	5142.04	8"
24	13+85.00	47.00	5141.74	8"
25	13+25.00	12+97.00	5141.44	8"
26	12+55.00	27.00	5141.14	8"
27	11+45.00	11+67.00	5140.84	8"
28	11+45.00	07.00	5140.54	8"
29	10+85.00	55.00	5140.24	8"
30	10+85.00	05.00	5140.00	8"
31	11+45.00	05.00	5140.54	8"
32	12+05.00	11+65.00	5140.84	8"
33	12+05.00	25.00	5141.14	8"
34	13+25.00	12+85.00	5141.44	8"
35	13+85.00	45.00	5141.74	8"
36	14+45.00	05.00	5142.04	8"
37	15+05.00	14+65.00	5142.34	8"
38	15+05.00	25.00	5142.64	8"
39	16+25.00	15+85.00	5142.94	8"
40	16+95.00	05.00	5143.24	8"
41	17+45.00	05.00	5143.54	8"
42	18+05.00	17+65.00	5143.84	8"
43	18+05.00	25.00	5143.92	8"
44	18+85.82		5143.79	8"

WATER SERVICE SCHEDULE

LOT	STATION	TYPE	SIZE
16/17	18+15.00	DOUBLE	3/4"
18/19	16+95.00	DOUBLE	3/4"
20/21	15+75.00	DOUBLE	3/4"
22/23	14+55.00	DOUBLE	3/4"
24/25	13+35.00	DOUBLE	3/4"
26/27	12+15.00	DOUBLE	3/4"
28/29	10+95.00	DOUBLE	3/4"
30/31	10+95.00	DOUBLE	3/4"
32/33	12+15.00	DOUBLE	3/4"
34/35	13+35.00	DOUBLE	3/4"
36/37	14+55.00	DOUBLE	3/4"
38/39	15+75.00	DOUBLE	3/4"
40/41	16+95.00	DOUBLE	3/4"
42/43	18+15.00	DOUBLE	3/4"

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: SUNRISE SUBDIVISION
WATER & SAS IMPROVEMENTS-PLAN & PROFILE
GALATANEU STREET N.W.-STA. 9+90 TO STA. 18+96.72

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
CHAIRMAN	R.W. Kane	2-28-94	WATER	R.W. Kane	2-28-94
TRANSPORTATION	W.A. Cus	2-15-94	WASTE WATER	R.W. Kane	2-28-94
HYDROLOGY	JD	2/17/94			

PROJECT NO. 4849.90 MAP NO. K-9 SHEET 16 OF 16