

CONSTRUCTION PLANS

FOR

RIO VOLCAN APARTMENTS

UTILITY IMPROVEMENTS

CITY OF ALBUQUERQUE
NEW MEXICO
DECEMBER 1997

TW

INDEX TO DRAWINGS

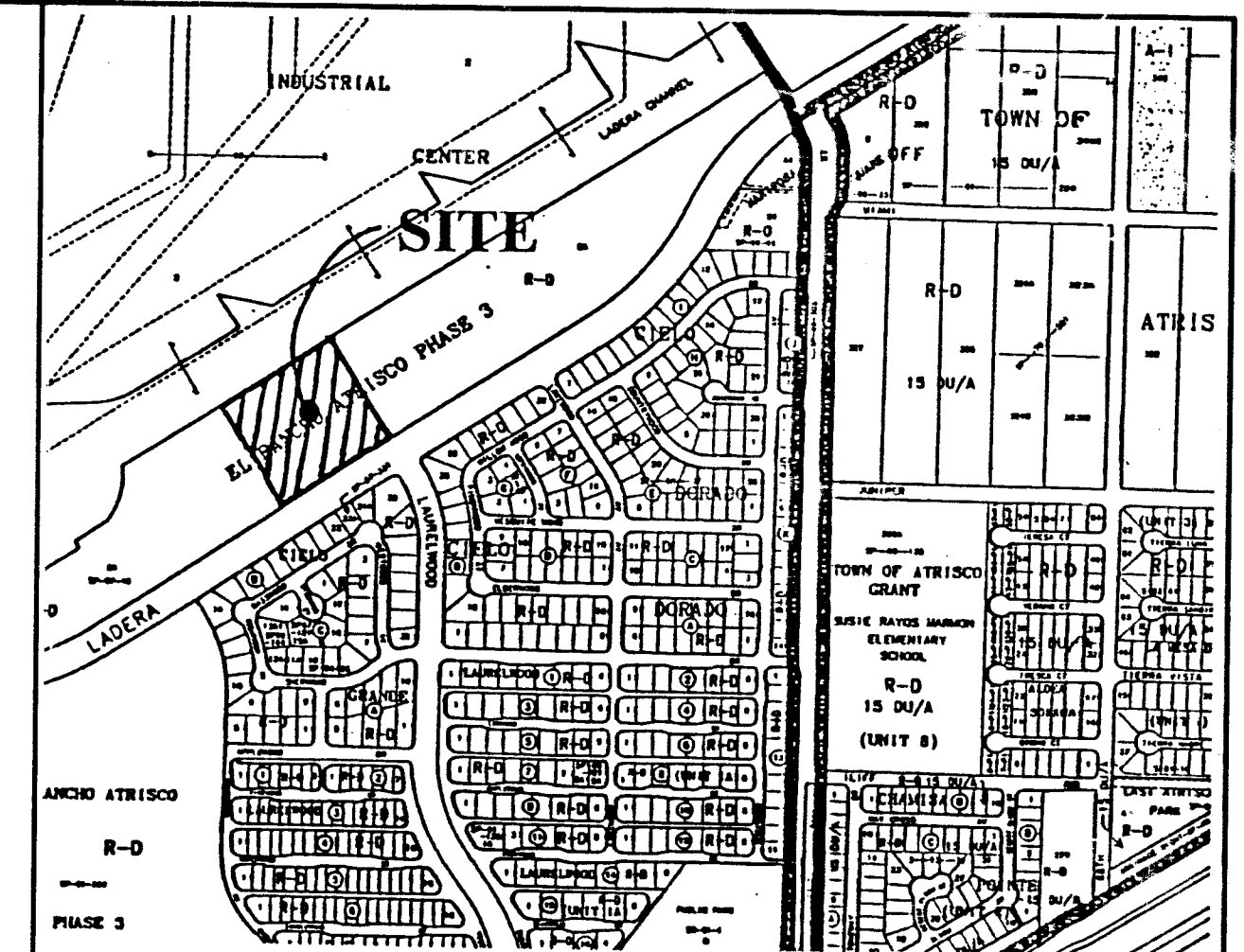
1. TITLE SHEET
 2. MASTER UTILITY PLAN
 3. UTILITY IMPROVEMENTS
LAURELWOOD PLACE
STA 10+00 TO STA 12+17.36
 4. PAVING IMPROVEMENTS
LAURELWOOD PLACE
STA 10+00 TO STA 12+17.36
 - 5.6. SIGNING & TRAFFIC CONTROL PLANS
- Δ 4A As-Built Paving Improvements, Laurelwood Pl

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 5247.9198H10

SCANNED BY
BY LASON

DRB #97-429

1/960024/9624TTL.DWG/BDG/12-09-97



VICINITY MAP ZONE ATLAS H-10-Z

SCALE NONE

NOTICE TO CONTRACTORS

1. 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 FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION (UPDATE #6).
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (280-1990) FOR LOCATION OF EXISTING UTILITIES.
3. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
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 ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO(2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK. 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 CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 OF THE STANDARD SPECIFICATIONS. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNER'S EXPENSE.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEEPER FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

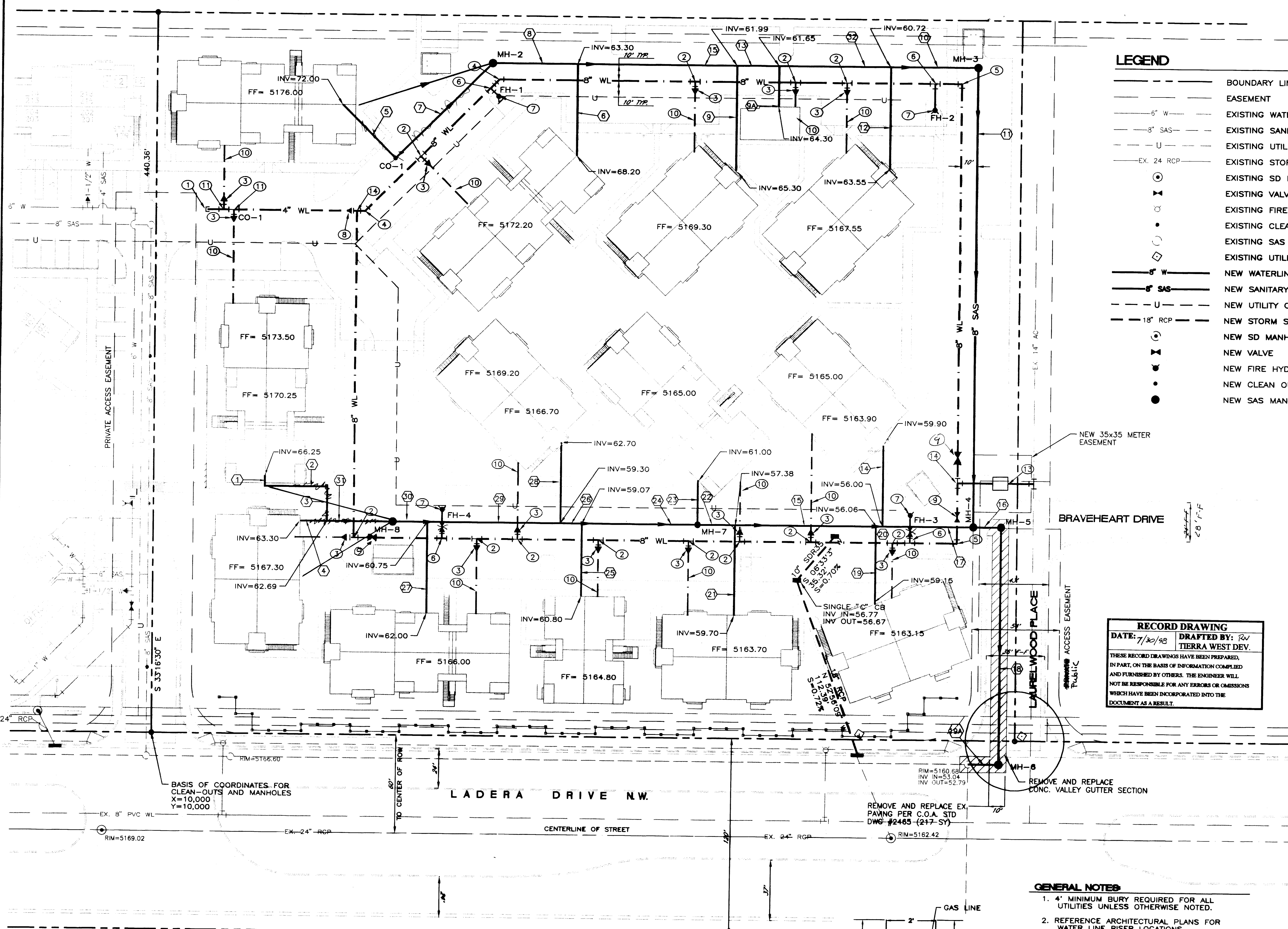
RECORD DRAWING
DATE: 7/20/98 DRAFTED BY: R.W.
TIERRA WEST DEV.
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE DOCUMENT AS A RESULT.

APPROVAL OF AS-BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE: 7/20/98

TIERRA WEST, LLC
EXPRESSLY RESERVES THE COMMON LAW COPYRIGHT AND OTHER PROPERTY RIGHTS IN THESE PLANS. THESE PLANS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF TIERRA WEST DEVELOPMENT MANAGEMENT SERVICES.

TIERRA WEST, LLC
4421 McLEOD ROAD, N.E., SUITE D
ALBUQUERQUE, NEW MEXICO 87109
(505)883-7592

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
Δ 4A	PS-Built per Record & Note						
ENGINERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<i>Billy G. Andahy</i>	3-9-98	APPROVED FOR CONSTRUCTION		
		Transportation					
		Water/Wastewater	<i>R.W. Kane</i>	12-30-97			
		Hydrology	<i>Jim Wallamoni</i>	2-13-98			
		C.I.P.					
		Constr. Mngmt.					
		CITY PROJECT NO.	5247.91		SHEET 1 OF 6		



- ### LEGEND
- BOUNDARY LINE
 - EASEMENT
 - EXISTING WATERLINE
 - EXISTING SANITARY LINE
 - EXISTING UTILITY CORRIDOR
 - EX. 24" RCP --- EXISTING STORM SEWER LINE
 - EXISTING SD MANHOLE
 - EXISTING VALVE
 - EXISTING FIRE HYDRANT
 - EXISTING CLEAN OUT
 - EXISTING SAS MANHOLE
 - EXISTING UTILITY BOX
 - NEW WATERLINE
 - NEW SANITARY LINE
 - NEW UTILITY CORRIDOR
 - NEW STORM SEWER LINE
 - NEW SD MANHOLE
 - NEW VALVE
 - NEW FIRE HYDRANT
 - NEW CLEAN OUT
 - NEW SAS MANHOLE

- ### KEYED NOTES FOR WL
- 8" CAP WITH BLOCKING AND AN INDICATOR
 - 2" X 1 1/2" REDUCER WITH BLOCKING
 - 45° BEND WITH BLOCKING
 - 90° BEND WITH BLOCKING
 - 8" X 8" TEE WITH BLOCKING
 - BUILD 6" FIRE HYDRANT WITH FLANGE BLOCKING; BUILD 6" VALVE WITH BOX; MINIMUM BURY OF 4'
 - 8" X 4" REDUCER WITH BLOCKING
 - 8" GATE VALVE WITH BOX
 - 1 1/2" WATERLINE
 - 4" X 4" TEE WITH BLOCKING
 - NOT USED
 - 3" COMPOUND METER W/TYPE "B" METER PIT PER C.O.A. STD DWG #2370 PAD ELEV=5162.75
 - 8" X 8" TEE WITH BLOCKING

- ### KEYED NOTES FOR SAS LINE
- 6.51 LF OF 4" SAS, S 33°16'30" E, S=5.41%
 - 38.24 LF OF 8" SAS, N 56°43'30" E, S=5.41%
 - 21.00 LF OF 4" SAS, S 33°16'30" E, S=5.41%
 - 16.59 LF OF 4" SAS, N 56°43'30" E, S=5.41%
 - 45.97 LF OF 4" SAS, S 78°16'30" E, S=13.73%
 - 56.06 LF OF 4" SAS, S 33°16'30" E, S=8.74%
 - 25.00 LF OF 8" SAS, N 11°43'30" E, S=1.91%
 - 25.00 LF OF 8" SAS, S 33°16'30" E, S=5.17%
 - 64.04 LF OF 4" SAS, S 33°16'30" E, S=5.17%
 - 25.00 LF OF 4" SAS, S 33°16'30" E, S=10.60%
 - 191.11 LF OF 8" SAS, N 56°43'30" E, S=1.36%
 - 208.88 LF OF 8" SAS, S 33°16'30" E, S=1.34%
 - 42.49 LF OF 4" SAS, S 33°16'30" E, S=4.53%
 - 140.43 LF OF 8" SAS, S 33°16'30" E, S=1.34%
 - 49.42 LF OF 4" SAS, S 33°16'30" E, S=7.89%
 - 85.54 LF OF 8" SAS, N 56°43'30" E, S=1.54%
 - 17.00 LF OF 8" SAS, N 56°43'30" E, S=1.00%
 - 55.69 LF OF 8" SAS, S 33°16'30" E, S=1.54%
 - 144.99 LF OF 4" SAS, S 56°43'30" W, S=0.99%
 - 47.84 LF OF 8" SAS, S 33°16'30" E, S=6.46%
 - 18.58 LF OF 8" SAS, N 56°42'15" W, S=1.00%
 - 4.04 LF OF 8" SAS, N 33°16'30" W, S=4.20%
 - 55.30 LF OF 8" SAS, N 56°43'30" E, S=1.54%
 - 22.87 LF OF 4" SAS, N 56°43'30" E, S=1.54%
 - 27.40 LF OF 4" SAS, N 33°16'30" W, S=11.57%
 - 70.28 LF OF 8" SAS, N 56°43'30" E, S=1.77%
 - 14.63 LF OF 4" SAS, S 33°16'30" E, S=3.88%
 - 12.99 LF OF 8" SAS, N 56°43'30" E, S=2.24%
 - 55.80 LF OF 4" SAS, S 33°16'30" E, S=2.24%
 - 49.42 LF OF 4" SAS, N 33°16'30" W, S=6.88%
 - 81.74 LF OF 8" SAS, N 56°43'30" E, S=1.77%
 - 21.02 LF OF 8" SAS, N 56°43'30" E, S=1.77%
 - 40.23 LF OF 4" SAS, N 56°43'30" E, S=3.66%
 - 68.18 LF OF 8" SAS, N 56°43'30" E, S=1.36%

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
- MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
- WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

RECORD DRAWING
 DATE: 7/30/93 DRAFTED BY: RW
 TIERRA WEST DEV.
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE DOCUMENT AS A RESULT.

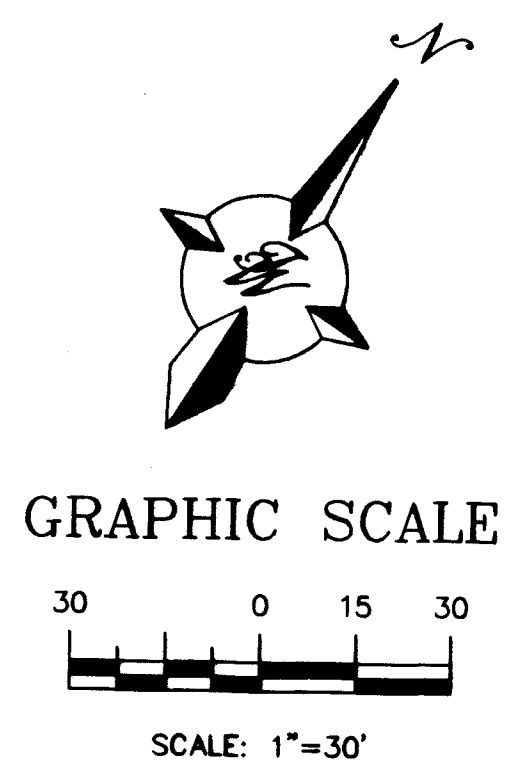
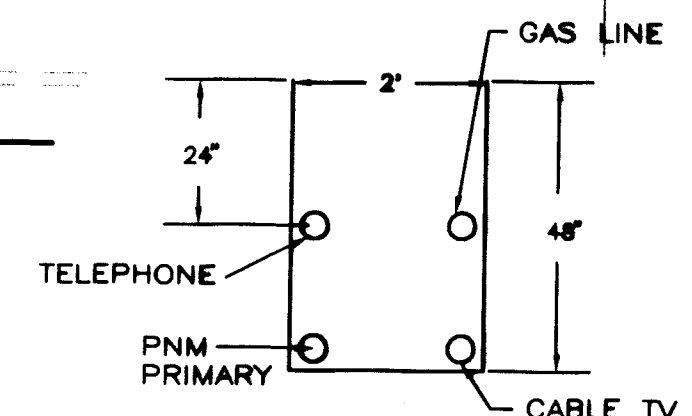


TABLE 1

MH/CO	X	Y	RIM	INV IN	INV OUT
MH-1	10,104.06	10,310.20	RIM=72.95	INV IN=68.95	INV OUT=68.85
MH-2	10,205.22	10,411.36	RIM=70.00	INV IN=64.10	INV OUT=64.00
MH-3	10,501.13	10,411.36	RIM=65.89	INV IN=59.99	INV OUT=59.89
MH-4	10,501.13	10,130.50	RIM=62.04	INV IN=55.14	INV OUT=55.04
MH-5	10,528.13	10,130.50	RIM=61.92	INV IN=54.87	INV OUT=54.77
MH-6	10,528.13	9,985.51	RIM=60.09	INV IN=53.33	INV OUT=53.23
MH-7	10,332.99	10,106.09	RIM=61.83	INV IN=57.83	INV OUT=57.73
MH-8	10,146.97	10,130.50	RIM=65.22	INV IN=61.22	INV OUT=61.12
CO-1	10,146.48	10,352.62		INV IN=65.69	

APPROVALS	NAME	DATE
A.C.E./DESIGN		
INSPECTOR		
A.C.E./FIELD		



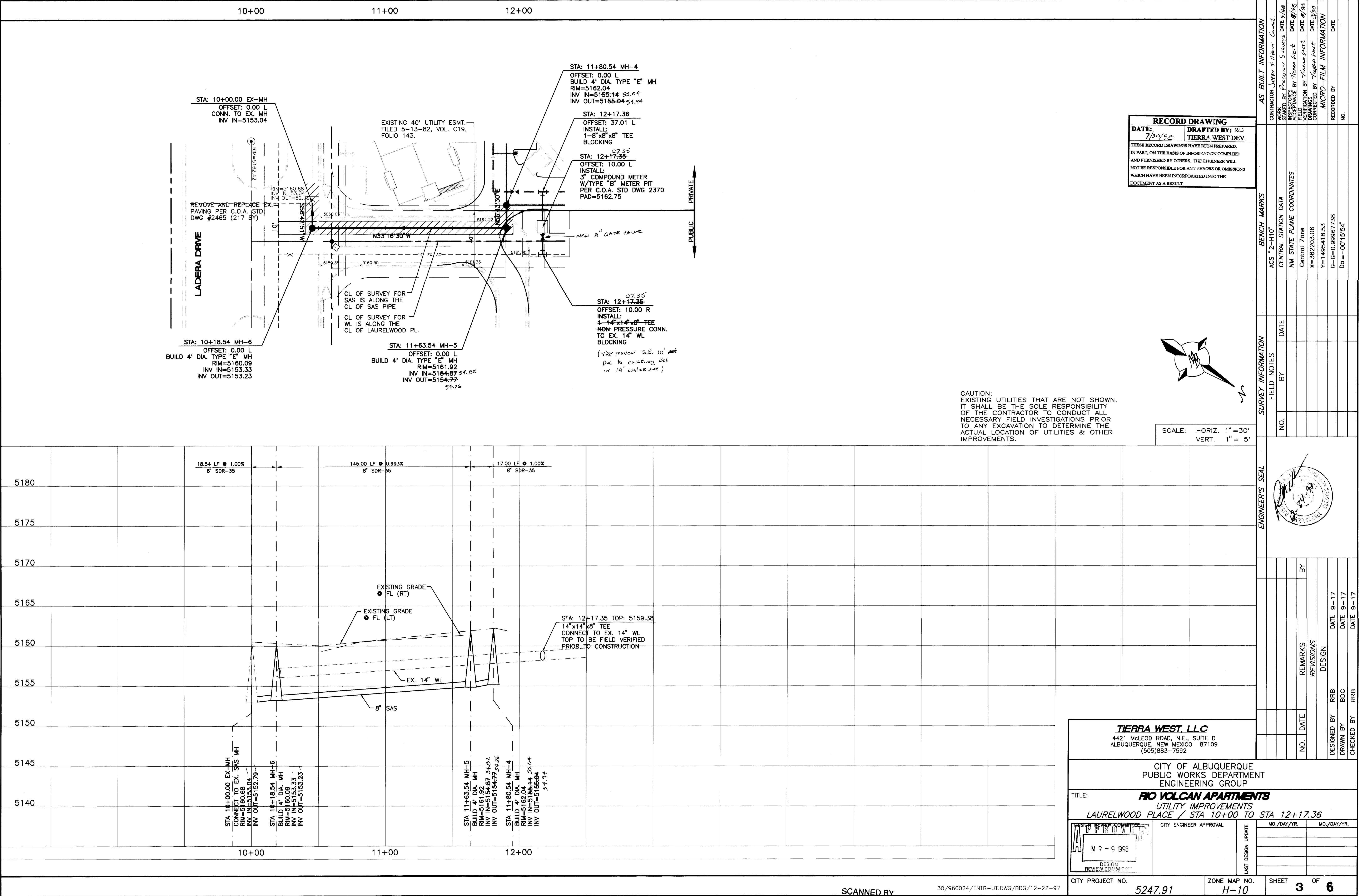
- ### GENERAL NOTES
- 4" MINIMUM BURY REQUIRED FOR ALL UTILITIES UNLESS OTHERWISE NOTED.
 - REFERENCE ARCHITECTURAL PLANS FOR WATER LINE RISER LOCATIONS.
 - CLEAN OUTS ARE TO BE BUILT PER UNIFORM PLUMBING CODE STANDARDS.
 - CO AND MH TIE POINTS ARE TAKEN FROM THE S.W. CORNER FOR THIS TRACT X=10,000 Y=10,000 SEE TABLE 1.
 - ALL BLOCKING IS PER CITY OF ALBUQUERQUE STANDARD DWG. 2320.
 - ALL PIPE MATERIAL TO BE USED PER UPC.
 - PROVIDE DOUBLE CLEAN OUT AT THE END OF ALL SAS SERVICE LINES TO BUILDING.
 - SEE PAGES 5 AND 6 FOR TRAFFIC CONTROL ON LADERA.



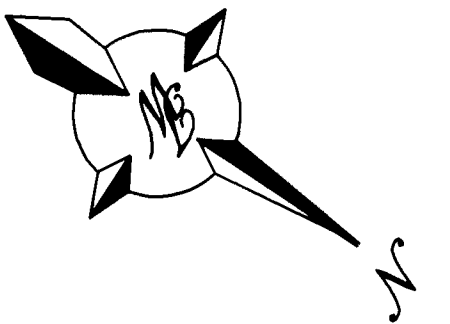
RIO VOLCAN APARTMENTS
MASTER UTILITY PLAN
PHASE II
 TIERRA WEST DEVELOPMENT
 MANAGEMENT SERVICES
 4421 McLEOD ROAD, N.E., SUITE D
 ALBUQUERQUE, NEW MEXICO 87109
 (505)863-7592

DRAWN
 BDG
DATE
 3-22-96
9624MU.DWG
SHEET #
2 of 6
JOB #
 960024

SCANNED BY LASON



RECORD DRAWING
DATE: 7/30/98
DRAFTED BY: RLW
TIERRA WEST DEV.
THESE RECORD DRAWINGS HAVE BEEN PREPARED,
IN PART, ON THE BASIS OF INFORMATION COMPILED
AND FURNISHED BY OTHERS. THE ENGINEER WILL
NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS
WHICH HAVE BEEN INCORPORATED INTO THE
DOCUMENT AS A RESULT.



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	JERRY F. PERRY, CONSULTANT	ACS "2-H10"	DATE	BY	NO.		
STATIONED BY	Precision Surveys, DATE 5/98	CENTRAL STATION DATA					
INSPECTED BY	Field Change by Terra West, DATE 8/98	NM STATE PLANE COORDINATES					
VERIFICATION BY	Terra West, DATE 8/98	Central Zone					
MICRO-FILM INFORMATION		X=362203.06				DESIGNED BY	RRB
		Y=1495418.53				DRAWN BY	BDG
		G-G=0.99967738				CHECKED BY	RRB
		Do=-00'15.4"				DATE	9-17
						DATE	9-17
						DATE	9-17

10+00

11+00

12+00

CONNECT NEW 6'
SIDEWALK TO
EXISTING SIDEWALKREMOVE EXIST
ASPHALT CURB &
REPLACE WITH
500 POLYSTYRENERIM=5160.68
INV IN=53.04
INV OUT=52.79WHEEL CHAIR RAMP PER
COA STD DWG 2441 TYP.
(EXISTING)HC RAMP CASE 1 PER
C.O.A. STD DWG# 2441TRANSITION FROM
STD C&G TO 6"
HEADER CURBSTA: 11+49.00 PC
OFFSET: 18.01 L
BEGIN REMOVAL OF
EX. CURB
MATCH EX. C&G
FL=5161.55NEW 4'
SIDEWALK

LAURELWOOD PLACE

WHITE PAINTED
ARROWS AND 4"
STRIPE 24' LONGCL OF SURVEY
IS ALONG THE
CL OF LAURELWOOD
PLACE

EX. C&G

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

T

U

V

W

X

Y

Z

AA

AB

AC

AD

AE

AF

AG

AH

AI

AJ

AK

AL

AM

AN

AO

AP

AQ

AR

AS

AT

AU

AV

AW

AX

AY

AZ

BA

BB

BC

BD

BE

BF

BG

BH

BI

BJ

BK

BL

BM

BN

BO

BP

BQ

BR

BS

BT

BU

BV

BW

BX

BY

BZ

CA

CB

CC

CD

CE

CF

CG

CH

CI

CJ

CK

CL

CM

CN

CO

CP

CQ

CR

CS

CT

CU

CV

CW

CX

CY

CZ

DA

DB

DC

DD

DE

DF

DG

DH

DI

DJ

DK

DL

DM

DN

DO

DP

DQ

DR

DS

DT

DU

DV

DW

DX

DY

DZ

EA

EB

EC

ED

EE

EF

EG

EH

EI

EJ

EK

EL

EM

EN

EO

EP

EQ

ER

ES

ET

EU

EV

EW

EX

EY

EZ

FA

FB

FC

FD

FE

FF

FG

FH

FI

FJ

FK

FL

FM

FN

FO

FP

FQ

FR

FS

FT

FU

FV

FW

FX

FY

FZ

GA

GB

GC

GD

GE

GF

GG

GH

GI

GJ

GK

GL

GM

GN

GO

GP

GQ

GR

GS

GT

GU

GV

GW

GX

GY

GZ

HA

HB

HC

HD

HE

HF

HG

HH

HI

HJ

HK

HL

HM

HN

HO

HP

HQ

HR

HS

HT

HU

HV

HW

HX

HY

HZ

IA

IB

IC

ID

IE

IF

IG

IH

II

IJ

IK

IL

IM

IN

IO

IP

IQ

IR

IS

IT

IU

IV

IW

IX

IY

IZ

JA

JB

JC

JD

JE

JF

JG

JH

JI

JJ

JK

JL

JM

JN

JO

JP

JQ

JR

JS

JT

JU

JV

JW

JX

JY

JZ

KA

KB

KC

KD

KE

KF

KG

KH

KI

KJ

KL

KM

KN

KO

KP

KQ

KR

KS

KT

KU

KV

KW

KX

KY

KZ

LA

LB

LC

LD

LE

LF

LG

LH

LI

LJ

LK

LL

LM

LN

LO

LP

LQ

LR

LS

LT

LU

LV

LW

LX

LY

LZ

MA

MB

MC

MD

ME

MF

MG

MH

MI

MJ

MK

ML

MM

MN

MO

MP

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.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.
- 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.
- 48 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.

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:
- 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.

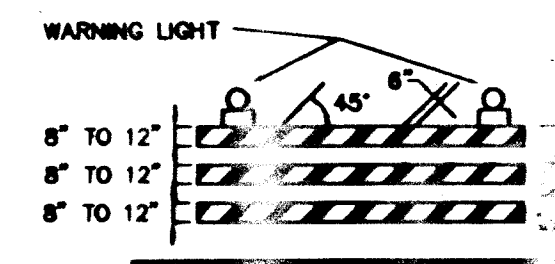
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

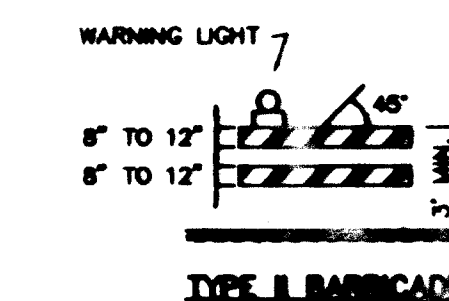
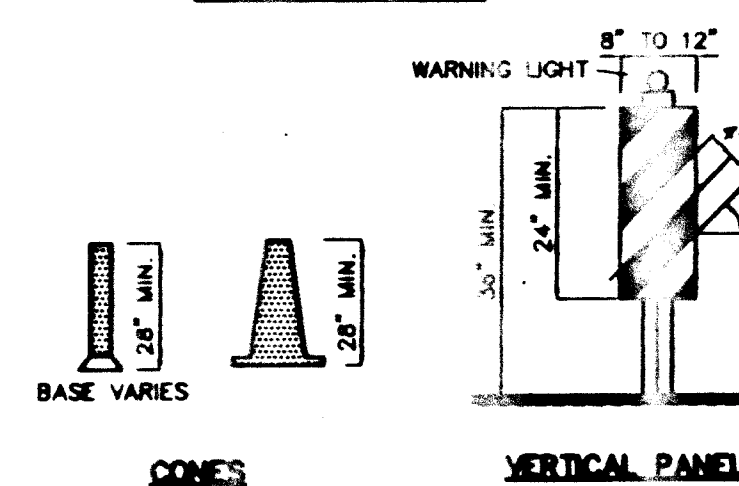
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. 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.

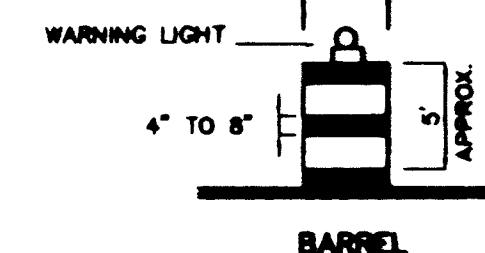
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



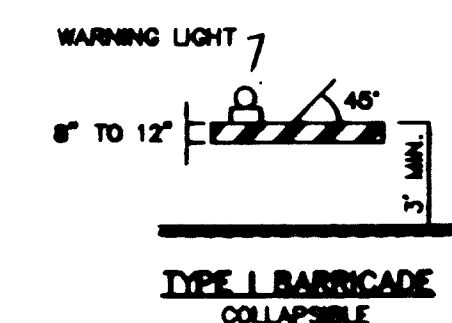
TYPE II BARRICADE



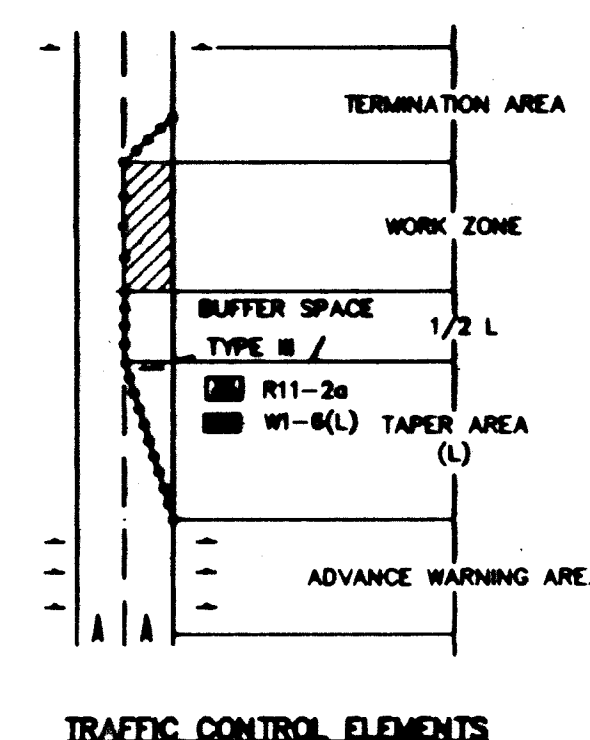
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

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		BEFORE 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 LIMIT (MPH)	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

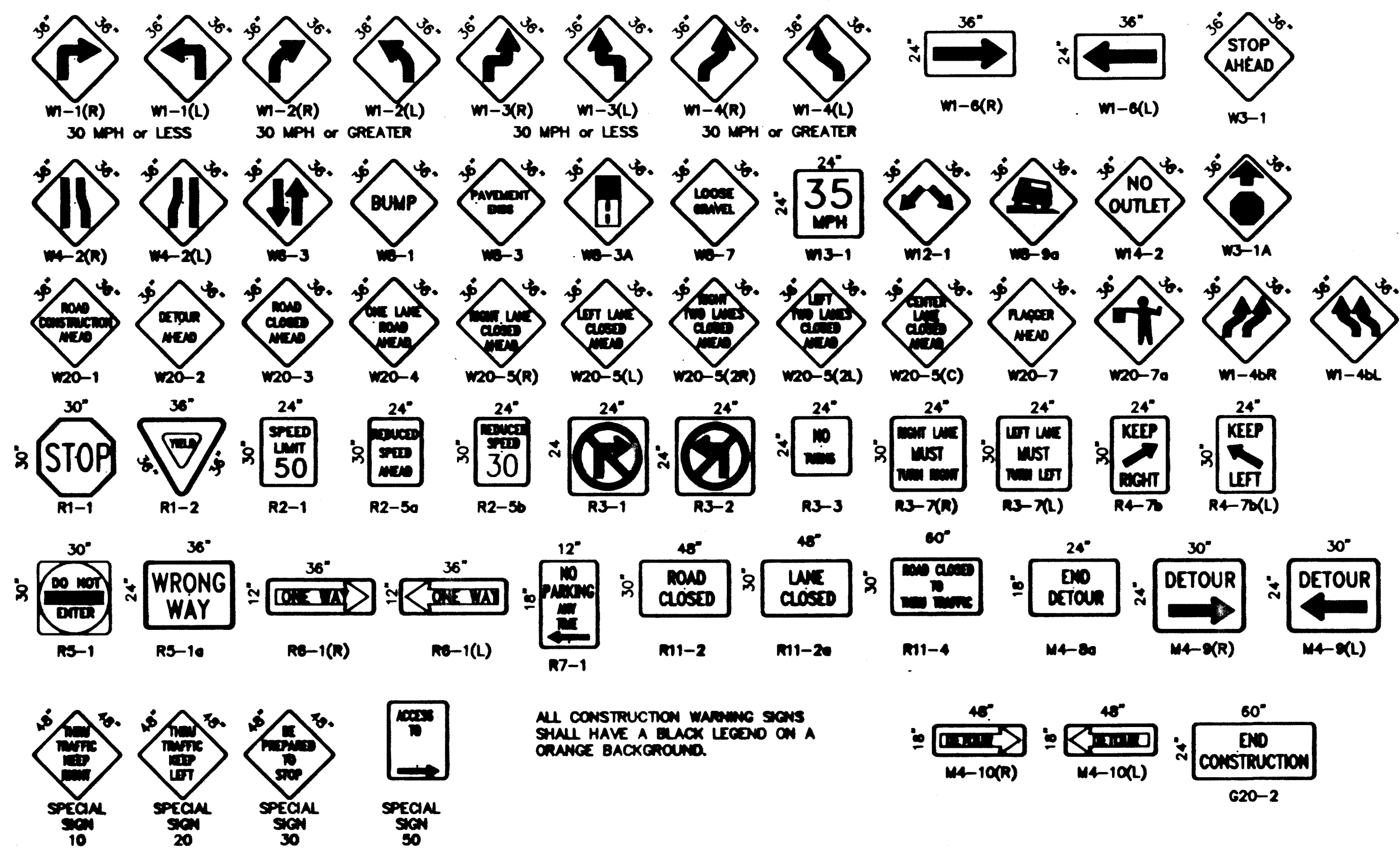
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	L =
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.

CANNED BY BY LASON

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
CHECKED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REVISIONS	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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
COA Standard	
PROJECT NO. 5247.91	MAP NO. H-10
SHEET 5	OF 6

