CONSTRUCTION DOCUMENTS
CLASS II CONSTRUCTION

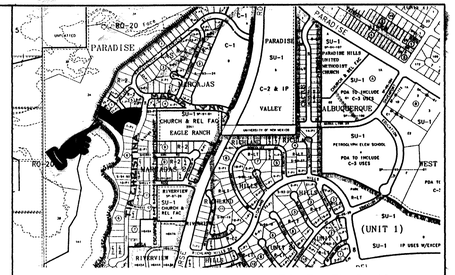
LAS MARCADAS PARK AND OPEN SPACE

CITY OF ALBUQUERQUE

TIA CHRISTINA DRIVE N.W.

WATER METER ADDRESS: 9009 TIA CHRISTINA DR. NW

SEPTEMBER 1998



VICINITY MAP ZONE ATLAS NO.

NOTICE TO CONTRACTORS

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.
3. PRIOR TO ANY 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 THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.
4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RESET BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE 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.
6. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.
7. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOURS CONSTRUCTION.
8. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

INDEX OF DRAWINGS

TITLE	SHEET NO.
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SITE DETAILS	12 OF 13
PHASE II TRAIL	13 OF 13
TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES	SUPPLEMENTARY
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	SUPPLEMENTARY

FOR INFORMATION ONLY

STATE OF NEW MEXICO
M. LAURIE AGUILAR
No. 245
REGISTERED LANDSCAPE ARCHITECT

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

APPROVALS	ENGINEER	DATE
DRC Chairman		12-1-98
Transportation		11/24/98
Water/ Wastewater		10/20/98
Hydrology		10/20/98
Parks	Colleen R. Fenn	10-16-98
Constr. Mngmt.		
AMAFCA		9/17/98
NM Water Util.		9-17-98
Constr. Coord.		9-17-98

APPROVED FOR CONSTRUCTION

City Engineer Date 12/7/98

City Project No. 5689.90

Sheet 1 Of 13

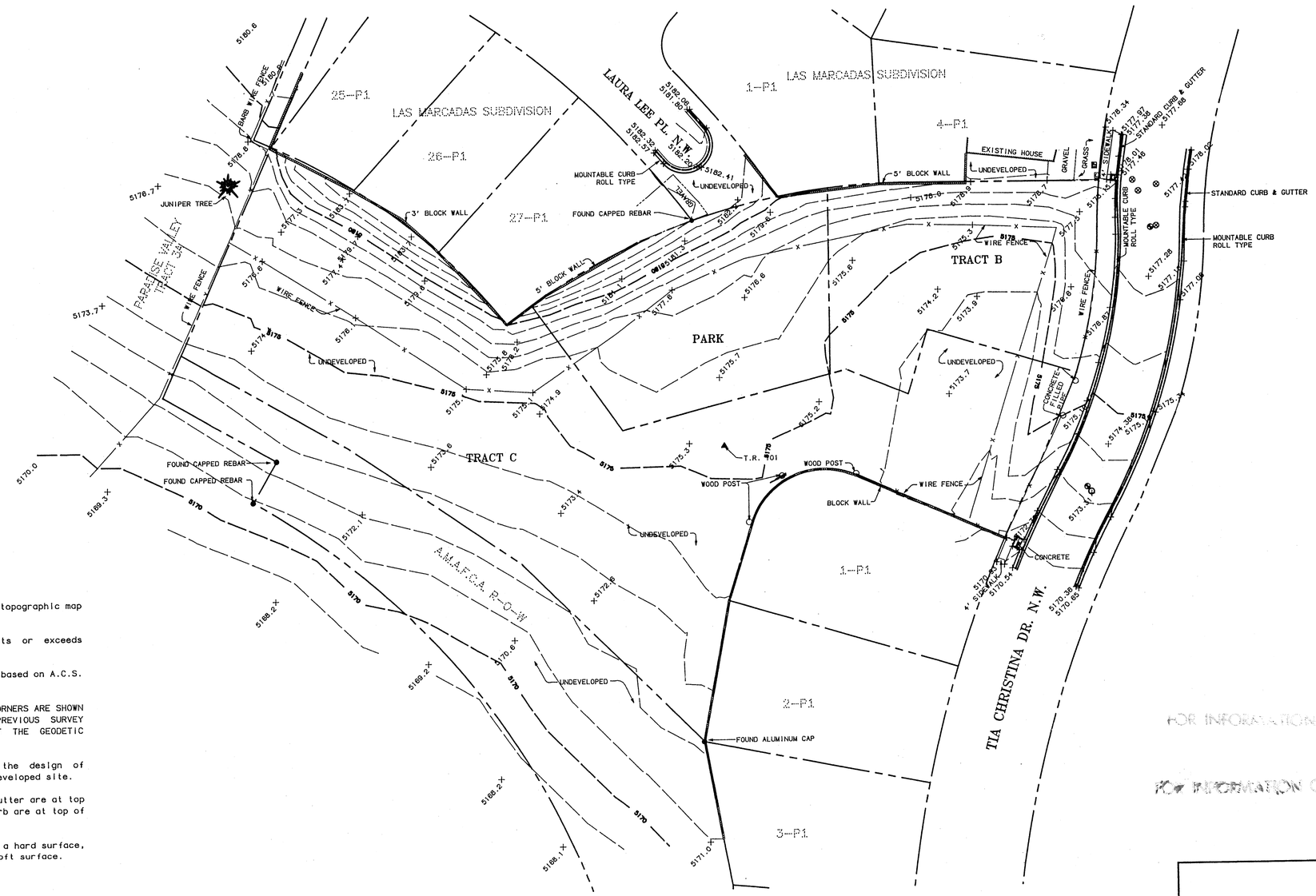
TOPOGRAPHIC MAP SHOWING

TRACTS B,C, AND PARK
LAS MARCADAS II SUBDIVISION

LOCATED WITHIN SEC. 13
T11N, R2E, N.M.P.M.
CITY OF ALBUQUERQUE

AUGUST 1996

Scale 1" = 30'



LEGEND

- CABLE T.V. RISER
- C.O.A. PROJECT CONTROL POINT OR A.C.S. MONUMENT DO NOT DISTURB
- ELECTRICAL PULL BOX
- MANHOLE
- WATER VALVE
- FIRE HYDRANT
- PROPERTY CORNER
- WOODEN POST FOR FENCE
- CENTERLINE MONUMENT
- —X— FENCE (TYPE DESCRIBED IN GRAPHICS)
- RESIDENTIAL MAILBOX
- LARGE TREE
- CONCRETE BLOCK WALL
- +9999.9 SPOT ELEVATION ON NATURAL GROUND
- +9999.99 SPOT ELEVATION AT TOP BACK OF C & G OR TOP OF ASPHALT
- APPARENT PROPERTY LINE

NOTES:

1. Field work was completed on August 19, 1996 and this topographic map was completed on August 29, 1996.
2. All topographic information as shown hereon meets or exceeds national map accuracy standards.
3. All elevations for this topographic survey are based on A.C.S. Monument "3-B12".
4. THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCED HEREON. FOR MORE INFORMATION CONTACT THE GEODETIC SURVEYOR AT 768-3609.
5. The purpose of this topographic map is to aid in the design of future additions or modifications of an existing undeveloped site.
6. All spot elevations on standard or median curb and gutter are at top back of curb. All spot elevations on asphalt curb are at top of asphalt unless otherwise noted.
7. Spot elevations showing two decimal places are on a hard surface, Spot elevations showing one decimal place are on a soft surface.
8. All sidewalks are concrete unless otherwise noted.
9. All pavement surfaces are asphalt unless otherwise noted.
10. All utilities as shown hereon have been located using existing records as provided by the utility company and with above ground evidence as located in the field survey. All underground utilities must be located in the field by line spots and pot holing prior to any construction.

AS BUILT INFORMATION

BENCHMARK

A.C.S. SURVEY CONTROL MONUMENT "3-B12"
ELEVATION: 5277.263 FEET
STATION IS A 3 1/4" ALUMINUM CAP AND IS STAMPED "3-B12", 1986 SET FLUSH IN LAVA ROCK

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
24	M.W.R., S.R.	8/15/96

NO.	DATE	REVISIONS / REMARKS	BY

SEAL

FOR INFORMATION ONLY

SHEET 1 OF 1 SHEET

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
SURVEY SECTION

DMZ

TITLE: LAS MARCADAS PARK AND OPEN SPACE SURVEY

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

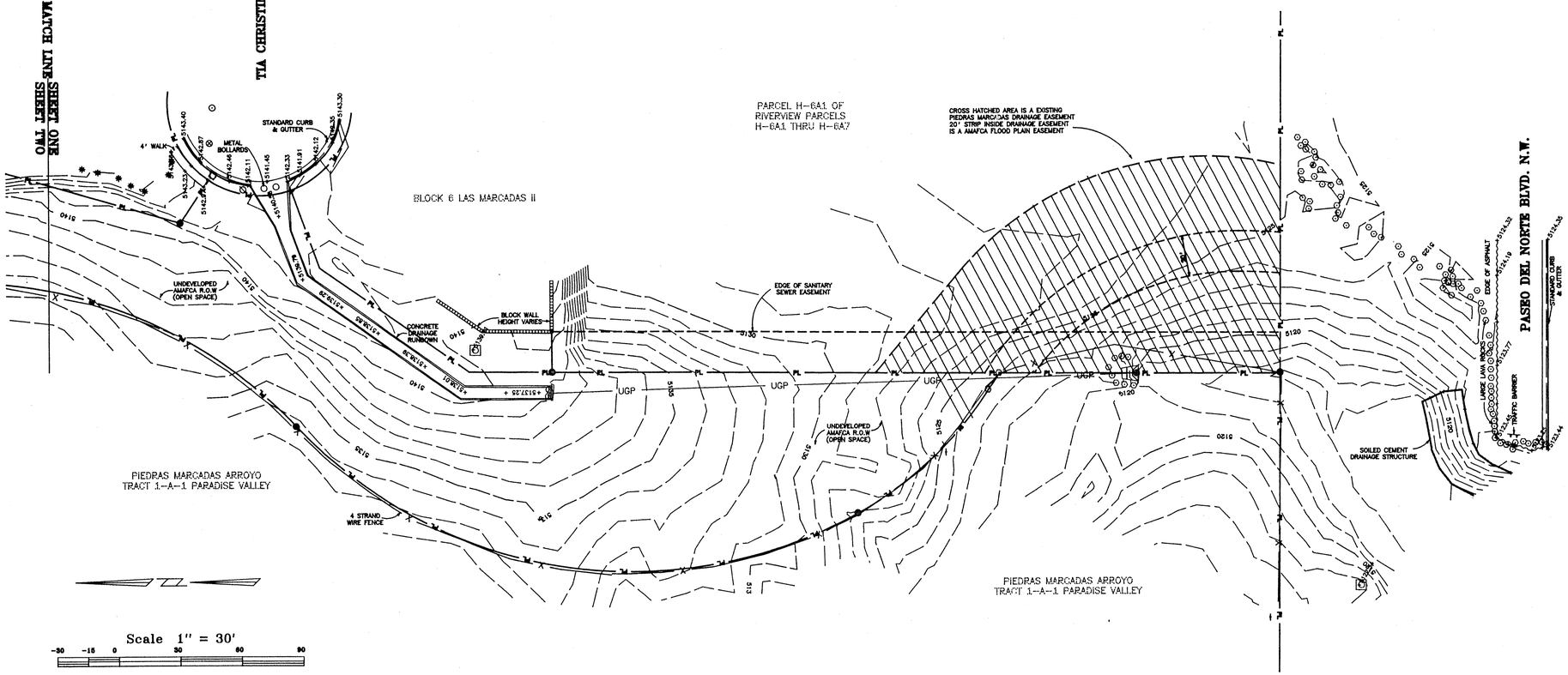
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
5689.90	C-12-Z	2	13

Filename: /pwsur/data/lasmarcadas5488/LASMARCADAS

103-C12 (2)

TOPOGRAPHIC MAP SHOWING
LAS MARCADAS II PARK AND OPEN SPACE TRAIL HEAD

WITHIN CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 1997



Scale 1" = 30'

-30 -15 0 30 60 90

NOTES:

1. All topographic information as shown hereon meets or exceeds national map accuracy standards.
2. Field work was completed on the June 17, 1997 and this topographic map was completed on July 30, 1997.
3. All elevations for this topographic survey are based on Albuquerque Control Survey Monument: "3-B12".
4. THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS ARE SHOWN FOR ORIENTATION ONLY. BOUNDARY DATA SHOWN IS FROM PREVIOUS SURVEY REFERENCED HEREON. FOR MORE INFORMATION CONTACT GEODETIC SURVEYOR AT 768-3609.
5. The purpose of this topographic Map is to aid in the design of Las Marcadas II park an open space trail head
6. All spot elevations on standard or median curb and gutter are at top back of curb. All spot elevations on asphalt are at top of asphalt unless otherwise noted.
7. Spot elevations showing two decimal places are on a hard surface (concrete); Spot elevations showing one decimal place are on a soft surface. (dirt)
8. All sidewalks are concrete unless otherwise noted.
9. All pavement surfaces are asphalt unless otherwise noted.
10. All utilities as shown hereon have been located using existing records as provided by the utility company and with above ground evidence as located by a field survey. All underground utilities must be verified in the field by line spots and pot holing prior to any construction.
11. The 2.66 acres between the Piedras Marcadas Arroyo and the rear property lines of the Las Marcadas II subdivision is hereby dedicated to the A.M.A.F.C.A., and will be encumbered by a license to the City of Albuquerque Open Space Division for use as a trail along the arroyo and limited access to the Petroglyph National Monument. This note was copied off the plat of "VACATION AND REPLAT FOR LAS MARCADAS II" plat filed for record in the office of the County Clerk of Bernalillo County, New Mexico. Book 95C, Pages 103(1)-103(5).

LEGEND

- △ PROJECT CONTROL/A.C.S. CONTROL MONUMENT
- FIRE HYDRANT
- WATER VALVE
- CONCRETE BASE FOR MANHOLES OR OTHER UTILITIES
- METAL PIPE/METAL BOLLARD
- DRAIN INLET
- DETAIL SPOT ELEVATION
- +9999.99 SPOT ELEVATION AT TOP BACK OF C & G OR TOP OF ASPHALT
- +9999.9 SPOT ELEVATION ON NATURAL GROUND
- MANHOLE
- POWER POLE WITH LIGHT
- SIGN (SIZE VARIES)
- BUSH/SHRUB
- LARGE PINE TREE
- —X— WOOD FENCE
- —UGP— UNDERGROUND PIPE
- BLOCK WALL
- EDGE OF ASPHALT
- PROPERTY CORNER
- —PL— APPROXIMATE PROPERTY LINE

FOR INFORMATION ONLY

FOR INFORMATION ONLY

SURVEY SHEET 1 OF 3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
SURVEY SECTION

RLG

AS BUILT INFORMATION

BENCHMARK

A.C.S. MONUMENT "3-B12" IS A 3.25" ALUMINUM CAP AND IS STAMPED "ACS 3-B12,1986" SET FLUSH WITH SURFACE OF LAVA ROCK. FOR A DETAILED DESCRIPTION OF MONUMENT LOCATION PLEASE REFER TO A.C.S. MONUMENT BOOK PAGE # C-948

ELEVATION: 5277.263 FEET

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
24	CREW: MWR, AG, GM.	6/97

SURVEYORS SEAL

NO.	DATE	REVISIONS / REMARKS	BY

TITLE: LAS MARCADAS PARK AND OPEN SPACE SURVEY

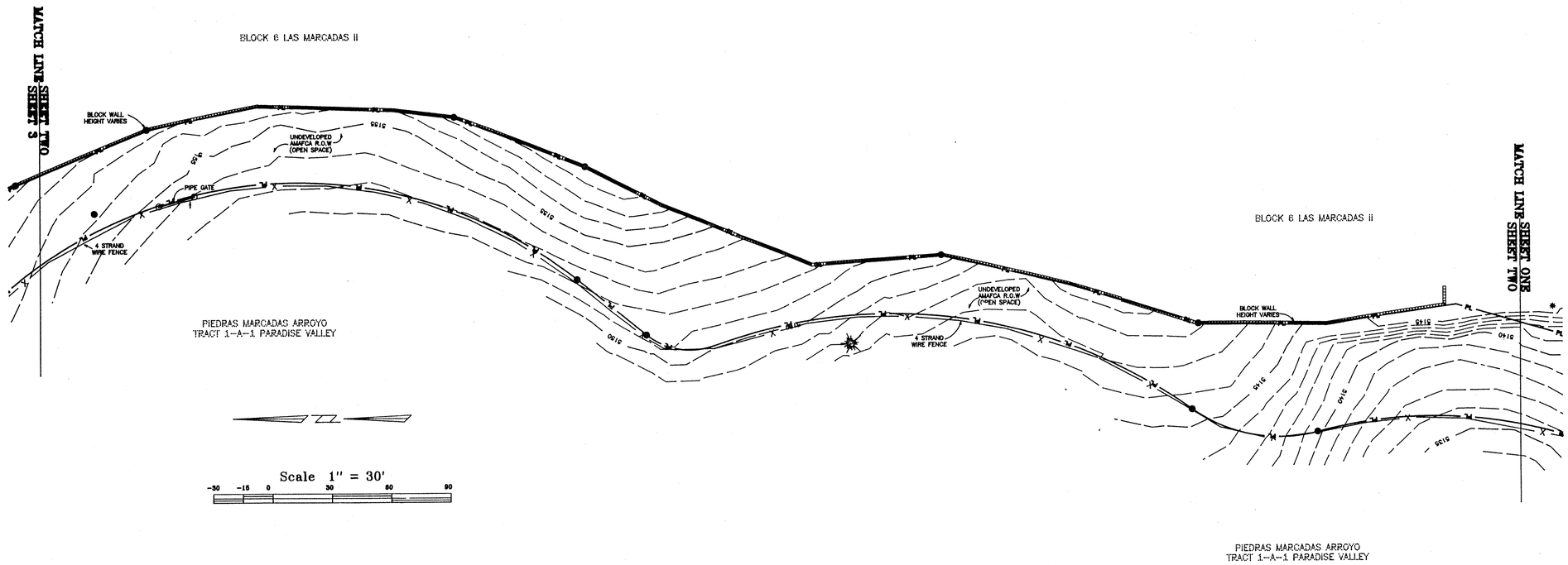
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
5689.90	C-12-Z	3	13

TOPOGRAPHIC MAP SHOWING

LAS MARCADAS II PARK AND OPEN SPACE TRAIL HEAD

WITHIN CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 1997



Scale 1" = 30'

-30 -15 0 30 60 90

AS BUILT INFORMATION		
BENCHMARK	A.C.S. MONUMENT "3-B12" IS A 3.25" ALUMINUM CAP AND IS STAMPED "ACS 3-B12,1986" SET FLUSH WITH SURFACE OF LAVA ROCK. FOR A DETAILED DESCRIPTION OF MONUMENT LOCATION PLEASE REFER TO A.C.S. MONUMENT BOOK. PAGE # C-948	
	ELEVATION: 5277.263 FEET	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE
24	CREW: MWR, AG, GM.	6/97

SURVEYORS SEAL

NO.	DATE	REVISIONS / REMARKS	BY

SURVEY SHEET 2 OF 3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
SURVEY SECTION

RLG

TITLE: LAS MARCADAS PARK AND OPEN SPACE SURVEY

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

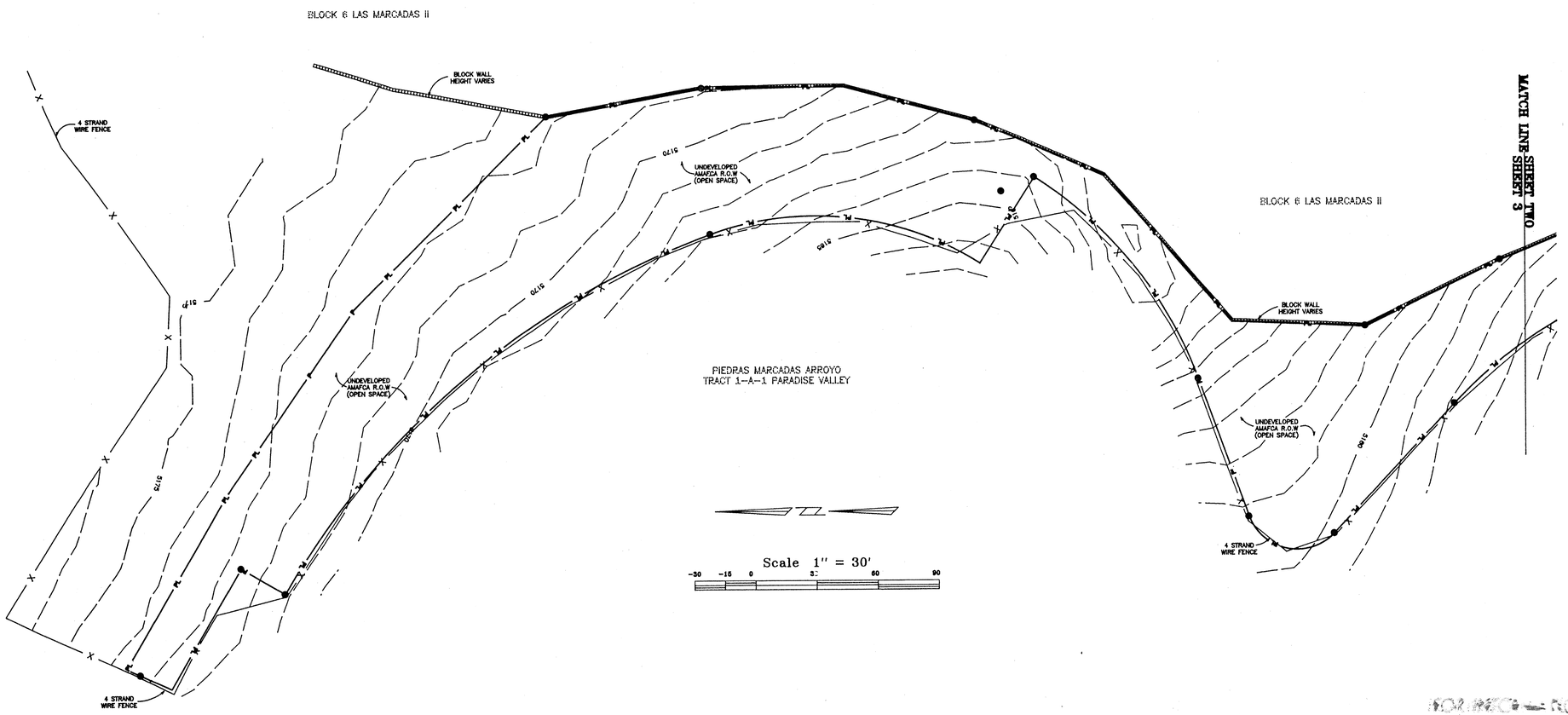
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
5689.90	C-12-Z	4	13

105-C12 (a)

TOPOGRAPHIC MAP SHOWING

LAS MARCADAS II PARK AND OPEN SPACE TRAIL HEAD

WITHIN CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 1997



FOR INFORMATION ONLY

FOR INFORMATION ONLY

SURVEY SHEET 3 OF 3

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP
SURVEY SECTION

RLG

TITLE: LAS MARCADAS PARK AND OPEN SPACE SURVEY

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
5689.90	C-12-Z	5	13

AS BUILT INFORMATION

BENCHMARK
A.C.S. MONUMENT "3-B12" IS A 3.25" ALUMINUM CAP AND IS STAMPED "ACS 3-B12,1986" SET FLUSH WITH SURFACE OF LAVA ROCK. FOR A DETAILED DESCRIPTION OF MONUMENT LOCATION PLEASE REFER TO A.C.S. MONUMENT BOOK, PAGE # C-948

ELEVATION: 5277.263 FEET

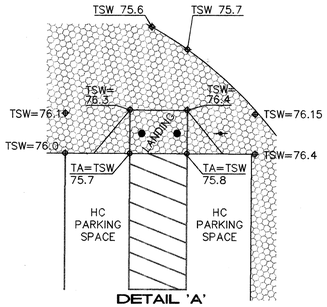
SURVEY INFORMATION

FIELD NOTES

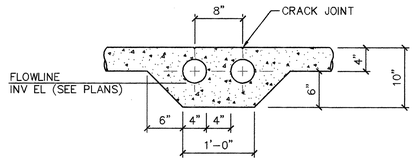
NO.	BY	DATE
24	CREW: MWR, AC, CM.	6/97

SURVEYORS SEAL

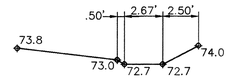
NO.	DATE	REVISIONS / REMARKS	BY



DETAIL 'A'
HANDICAP RAMP
SCALE: 1"=10'



PVC PIPE SIDEWALK DRAIN
SECTION B
SCALE: 1"=1'-0"



DEPRESSED PLANTER
SECTION C
SCALE: HORIZONTAL: 1"=5'
VERTICAL: 1"=5'

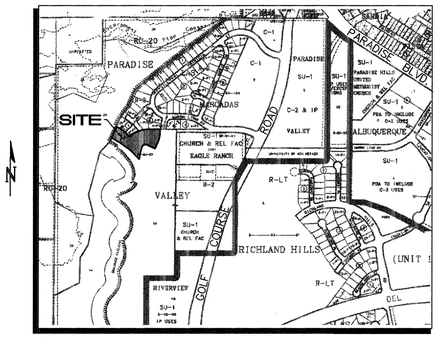
SCALE: 1"=20'

NOTES:

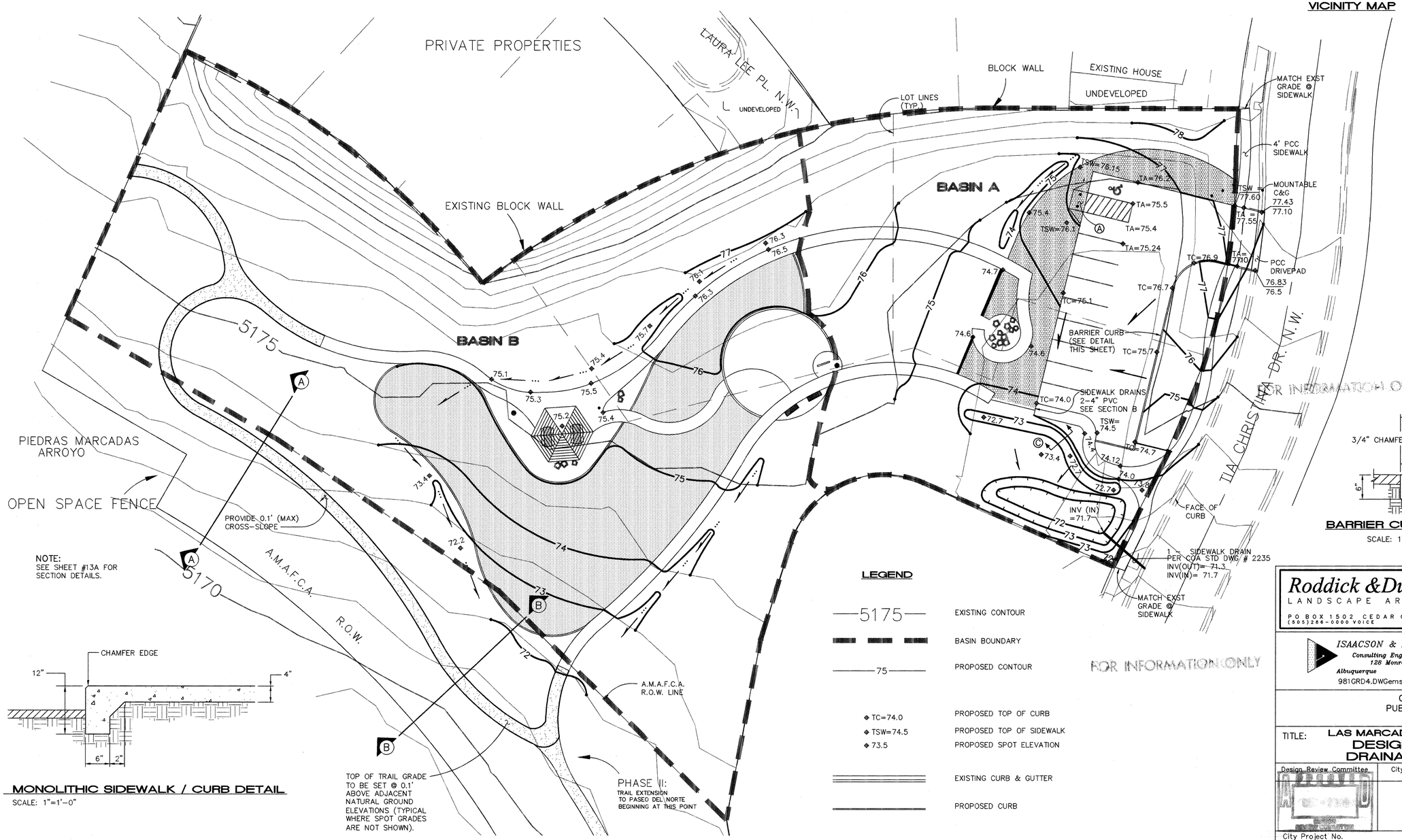
LEGAL DESCRIPTION: LAS MARCARDAS PARK II
AREA = 1.7 ACRES

BENCHMARK: ACS MONUMENT "3-B12"
ELEV = 5277.26 FEET

FLOOD ZONE DESIGNATION: ZONE X; NO PORTION OF THIS SITE FALLS WITHIN THE 500 YEAR FLOODPLAIN. PANEL 116 OF 825, FLOOD INSURANCE RATE MAP, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, SEPTEMBER 20, 1996.

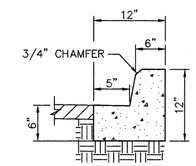


VICINITY MAP



NOTE:
SEE SHEET #13A FOR SECTION DETAILS.

MONOLITHIC SIDEWALK / CURB DETAIL
SCALE: 1"=1'-0"



BARRIER CURB DETAIL
SCALE: 1"=1'-0"

LEGEND

—5175—	EXISTING CONTOUR
	BASIN BOUNDARY
—75—	PROPOSED CONTOUR
◆ TC=74.0	PROPOSED TOP OF CURB
◆ TSW=74.5	PROPOSED TOP OF SIDEWALK
◆ 73.5	PROPOSED SPOT ELEVATION
	EXISTING CURB & GUTTER
	PROPOSED CURB

FOR INFORMATION ONLY

Roddick & Dunbar Ltd.
LANDSCAPE ARCHITECTURE
P.O. BOX 1502 CEDAR CREST NM 87008
(505)286-0000 VOICE (505)286-1610 FAX

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico
981GRD4.DWGems 10/22/98

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY M.JC DATE 08/98
DRAWN BY EMS DATE 08/98
CHECKED BY F.C.A. DATE 08/98

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: LAS MARCADAS PARK AND OPEN SPACE
DESIGN DEVELOPMENT II
DRAINAGE/GRADING PLAN

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

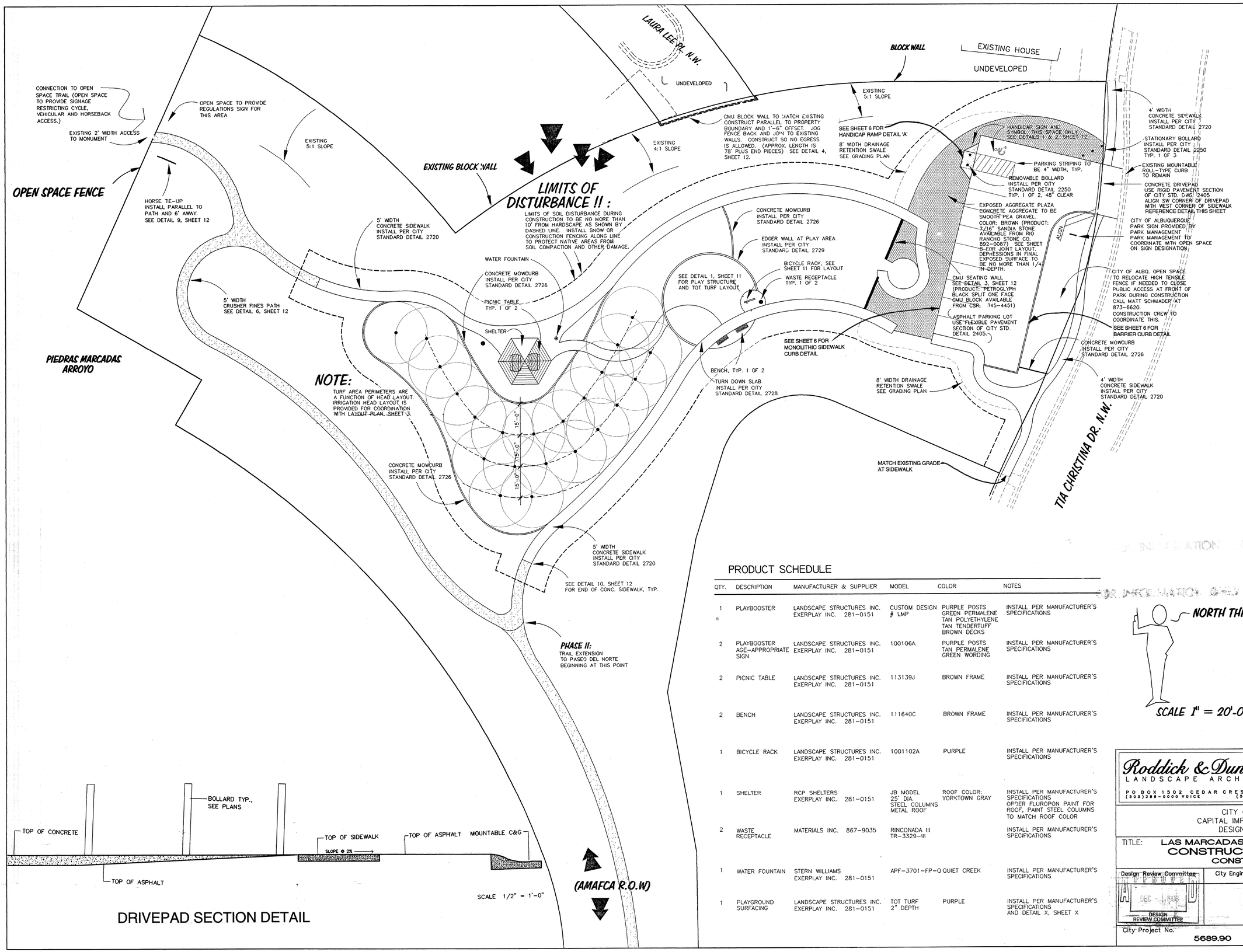
City Project No. 5689.90 | Zone Map No. C-12 | Sheet 6 Of 13

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

BENCH MARKS
ACS MONUMENT "3-B12" LOCATED 0.53 MILES SOUTHEAST OF THE INTERSECTION OF PARADISE BLVD. AND RADCLIFFE ROAD IN A LAVA ROCK OUTCROPPING.
ELEVATION = 5277.26 FEET

SURVEY INFORMATION
FIELD NOTES

ENGINEER'S SEAL
FRED C. ARFMAN ESTATE OF 7322 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
11-13-98



PRODUCT SCHEDULE

QTY.	DESCRIPTION	MANUFACTURER & SUPPLIER	MODEL	COLOR	NOTES
1	PLAYBOOSTER	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	CUSTOM DESIGN # LMP	PURPLE POSTS GREEN PERMALENE TAN POLYETHYLENE TAN TENDERTUFF BROWN DECKS	INSTALL PER MANUFACTURER'S SPECIFICATIONS
2	PLAYBOOSTER AGE-APPROPRIATE SIGN	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	100106A	PURPLE POSTS TAN PERMALENE GREEN WORDING	INSTALL PER MANUFACTURER'S SPECIFICATIONS
2	PICNIC TABLE	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	113139J	BROWN FRAME	INSTALL PER MANUFACTURER'S SPECIFICATIONS
2	BENCH	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	111640C	BROWN FRAME	INSTALL PER MANUFACTURER'S SPECIFICATIONS
1	BICYCLE RACK	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	1001102A	PURPLE	INSTALL PER MANUFACTURER'S SPECIFICATIONS
1	SHELTER	RCP SHELTERS EXERPLAY INC. 281-0151	JB MODEL 25' DIA. STEEL COLUMNS METAL ROOF	ROOF COLOR: YORKTOWN GRAY	INSTALL PER MANUFACTURER'S SPECIFICATIONS OPPER FLUROPON PAINT FOR ROOF, PAINT STEEL COLUMNS TO MATCH ROOF COLOR
2	WASTE RECEPTACLE	MATERIALS INC. 867-9035	RINCONADA III TR-3329-III		INSTALL PER MANUFACTURER'S SPECIFICATIONS
1	WATER FOUNTAIN	STERN WILLIAMS EXERPLAY INC. 281-0151	APF-3701-FP-Q	QUIET CREEK	INSTALL PER MANUFACTURER'S SPECIFICATIONS
1	PLAYGROUND SURFACING	LANDSCAPE STRUCTURES INC. EXERPLAY INC. 281-0151	TOT TURF 2" DEPTH	PURPLE	INSTALL PER MANUFACTURER'S SPECIFICATIONS AND DETAIL X, SHEET X

AS-BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
STAKING INSPECTED BY — DATE
FINAL ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
A.C.S. SURVEY CONTROL MONUMENT "3-B12"
ELEVATION: 5277.263 FEET
STATION IS A 3 1/4" ALUMINUM CAP AND IS STAMPED "3-B12", 1986 SET FLUSH IN LAVA ROCK

SURVEY INFORMATION
FIELD NOTES

ENGINEER'S SEAL
STATE OF NEW MEXICO — L. A. LAZURE AGUILAR — 545 — REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN
DESIGNED BY LRA — DATE 9-18-98
DRAWN BY R&D — DATE 9-18-98
CHECKED BY LRA — DATE 9-18-98

Roddick & Dunbar Ltd.
LANDSCAPE ARCHITECTURE
PO BOX 1502 CEDAR CREST NM 87008
(505)288-0000 VOICE (505)288-1810 FAX

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DESIGN & DEVELOPMENT

TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
CONSTRUCTION PLAN

Design Review Committee — DEC - 1 1998 — DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No. 5689.90
Zone Map No. C-12-Z
Sheet 7 Of 13

OPEN SPACE FENCE

PIEDRAS MARCADAS ARROYO

LAURA LEE DR. N.W.

UNDEVELOPED

EXISTING BLOCK WALL

BLOCK WALL

EXISTING HOUSE

UNDEVELOPED

NOTE:
SEE DETAIL 1, SHEET 8 FOR PLAZA CONCRETE JOINTS

CLEAR SPACE OF 4' BETWEEN POSTS

BASELINE

LOCATE BASELINE 105' – 0" SOUTH OF END OF EXISTING CONCRETE SIDEWALK

LOCATE STATION 0 + 00.00 AT INTERSECTION OF BACK OF ROLL CURB AND BASELINE

CONCRETE MOW CURB

CRUSHER FINES TRAIL

ALIGN W/EDGE OF WALK

EDGE OF CONCRETE

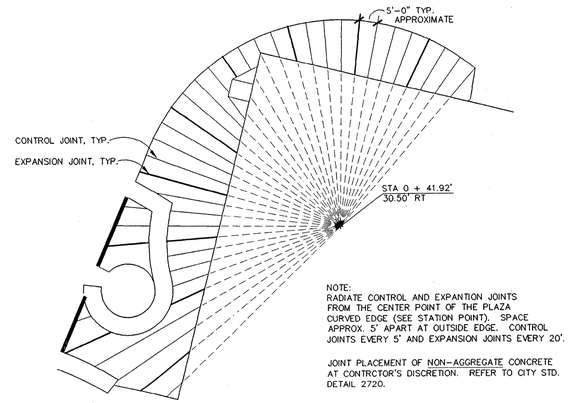
VERIFY STATION LAYOUT WITH LAYOUT OF TURF SPRAY HEAD LAYOUT SEE SHEET 2

CRITICAL DIMENSIONS :
THESE DISTANCES TO BE NO LESS THAN 30'-0"

TIA CHRISTINA DR. N.W.

PHASE II:
TRAIL EXTENSION TO PASEO DEL NORTE BEGINNING AT THIS POINT

(AMAFCA R.O.W)



NOTE:
RADIATE CONTROL AND EXPANTION JOINTS FROM THE CENTER POINT OF THE PLAZA CURVED EDGE (SEE STATION POINT). SPACE APPROX. 5' APART AT OUTSIDE EDGE. CONTROL JOINTS EVERY 5' AND EXPANSION JOINTS EVERY 20'.

JOINT PLACEMENT OF NON–AGGREGATE CONCRETE AT CONTRCTOR'S DISCRETION. REFER TO CITY STD. DETAIL 2720.

1/8 PLAZA EXPANSION AND CONTROL JOINT DETAIL

SCALE 1" = 20'-0"

FOR INFORMATION ONLY

NORTH THIS WAY

SCALE 1" = 20'-0"

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

BENCH MARKS
A.C.S. SURVEY CONTROL MONUMENT
"3–B12"
ELEVATION: 5277.263 FEET
STATION IS A 3 1/4" ALUMINUN CAP AND IS STAMPED "3–B12", 1986
SET FLUSH IN LAVA ROCK

SURVEY INFORMATION
FIELD NOTES

ENGINEER'S SEAL
STATE OF NEW MEXICO
M. LAURIE KEITH
No. 245
REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN	DATE
DESIGNED BY LRA	9–18–98
DRAWN BY R&D	9–18–98
CHECKED BY LRA	9–18–98

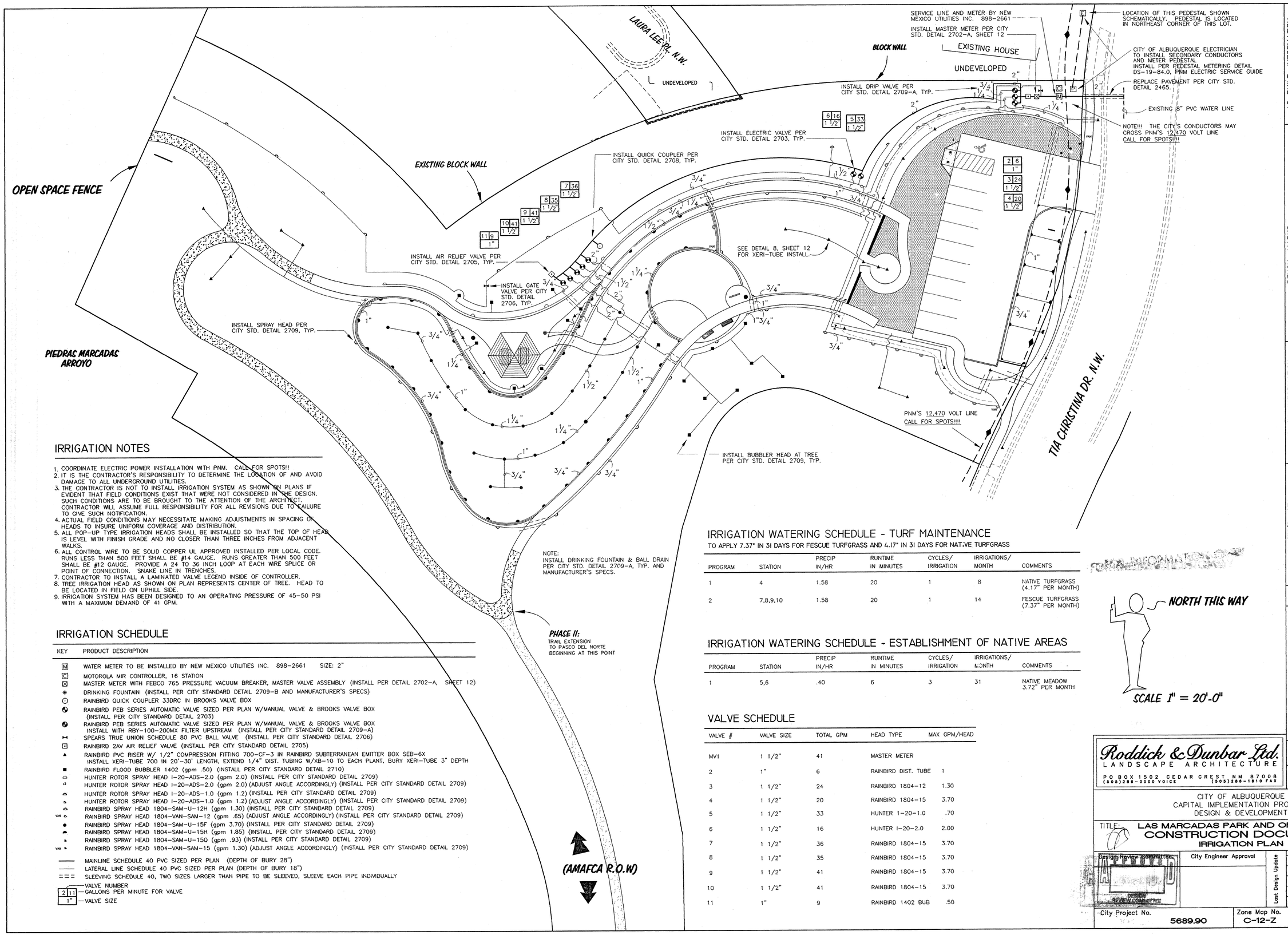
Roddick & Dunbar Ltd.
LANDSCAPE ARCHITECTURE
PO BOX 1502 CEDAR CREST NM 87008
(505)286–0000 VOICE (505)286–1610 FAX

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DESIGN & DEVELOPMENT

TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
LAYOUT PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED				

City Project No.	Zone Map No.	Sheet	Of
5689.90	C–12–Z	8	13



IRRIGATION NOTES

1. COORDINATE ELECTRIC POWER INSTALLATION WITH PNM. CALL FOR SPOTS!!
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF AND AVOID DAMAGE TO ALL UNDERGROUND UTILITIES.
3. THE CONTRACTOR IS NOT TO INSTALL IRRIGATION SYSTEM AS SHOWN ON PLANS IF EVIDENT THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED IN THE DESIGN. SUCH CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. ACTUAL FIELD CONDITIONS MAY NECESSITATE MAKING ADJUSTMENTS IN SPACING OF HEADS TO INSURE UNIFORM COVERAGE AND DISTRIBUTION.
5. ALL POP-UP TYPE IRRIGATION HEADS SHALL BE INSTALLED SO THAT THE TOP OF HEAD IS LEVEL WITH FINISH GRADE AND NO CLOSER THAN THREE INCHES FROM ADJACENT WALKS.
6. ALL CONTROL WIRE TO BE SOLID COPPER UL APPROVED INSTALLED PER LOCAL CODE. RUNS LESS THAN 500 FEET SHALL BE #14 GAUGE. RUNS GREATER THAN 500 FEET SHALL BE #12 GAUGE. PROVIDE A 24 TO 36 INCH LOOP AT EACH WIRE SPLICE OR POINT OF CONNECTION. SNAKE LINE IN TRENCHES.
7. CONTRACTOR TO INSTALL A LAMINATED VALVE LEGEND INSIDE OF CONTROLLER.
8. TREE IRRIGATION HEAD AS SHOWN ON PLAN REPRESENTS CENTER OF TREE. HEAD TO BE LOCATED IN FIELD ON UPHILL SIDE.
9. IRRIGATION SYSTEM HAS BEEN DESIGNED TO AN OPERATING PRESSURE OF 45-50 PSI WITH A MAXIMUM DEMAND OF 41 GPM.

IRRIGATION SCHEDULE

KEY	PRODUCT DESCRIPTION
M	WATER METER TO BE INSTALLED BY NEW MEXICO UTILITIES INC. 898-2661 SIZE: 2"
C	MOTOROLA MIR CONTROLLER, 16 STATION
⊠	MASTER METER WITH FEBCO 765 PRESSURE VACUUM BREAKER, MASTER VALVE ASSEMBLY (INSTALL PER DETAIL 2702-A, SHEET 12)
◉	DRINKING FOUNTAIN (INSTALL PER CITY STANDARD DETAIL 2709-B AND MANUFACTURER'S SPECS)
⊙	RAINBIRD QUICK COUPLER 33DRC IN BROOKS VALVE BOX
	RAINBIRD PEB SERIES AUTOMATIC VALVE SIZED PER PLAN W/MANUAL VALVE & BROOKS VALVE BOX (INSTALL PER CITY STANDARD DETAIL 2703)
	RAINBIRD PEB SERIES AUTOMATIC VALVE SIZED PER PLAN W/MANUAL VALVE & BROOKS VALVE BOX INSTALL WITH RBY-100-200MX FILTER UPSTREAM (INSTALL PER CITY STANDARD DETAIL 2709-A)
	SPEARS TRUE UNION SCHEDULE 80 PVC BALL VALVE (INSTALL PER CITY STANDARD DETAIL 2706)
	RAINBIRD 2AV AIR RELIEF VALVE (INSTALL PER CITY STANDARD DETAIL 2705)
▲	RAINBIRD PVC RISER W/ 1/2" COMPRESSION FITTING 700-CF-3 IN RAINBIRD SUBTERRANEAN EMITTER BOX SEB-6X INSTALL XERI-TUBE 700 IN 20'-30' LENGTH, EXTEND 1/4" DIST. TUBING W/XB-10 TO EACH PLANT, BURY XERI-TUBE 3" DEPTH
■	RAINBIRD FLOOD BUBBLER 1402 (gpm .50) (INSTALL PER CITY STANDARD DETAIL 2710)
	HUNTER ROTOR SPRAY HEAD I-20-ADS-2.0 (gpm 2.0) (INSTALL PER CITY STANDARD DETAIL 2709)
	HUNTER ROTOR SPRAY HEAD I-20-ADS-2.0 (gpm 2.0) (ADJUST ANGLE ACCORDINGLY) (INSTALL PER CITY STANDARD DETAIL 2709)
	HUNTER ROTOR SPRAY HEAD I-20-ADS-1.0 (gpm 1.2) (INSTALL PER CITY STANDARD DETAIL 2709)
	HUNTER ROTOR SPRAY HEAD I-20-ADS-1.0 (gpm 1.2) (ADJUST ANGLE ACCORDINGLY) (INSTALL PER CITY STANDARD DETAIL 2709)
	RAINBIRD SPRAY HEAD 1804-SAM-U-12H (gpm 1.30) (INSTALL PER CITY STANDARD DETAIL 2709)
VAN	RAINBIRD SPRAY HEAD 1804-VAN-SAM-12 (gpm .65) (ADJUST ANGLE ACCORDINGLY) (INSTALL PER CITY STANDARD DETAIL 2709)
●	RAINBIRD SPRAY HEAD 1804-SAM-U-15F (gpm 3.70) (INSTALL PER CITY STANDARD DETAIL 2709)
	RAINBIRD SPRAY HEAD 1804-SAM-U-15H (gpm 1.85) (INSTALL PER CITY STANDARD DETAIL 2709)
	RAINBIRD SPRAY HEAD 1804-SAM-U-15Q (gpm .93) (INSTALL PER CITY STANDARD DETAIL 2709)
VAN	RAINBIRD SPRAY HEAD 1804-VAN-SAM-15 (gpm 1.30) (ADJUST ANGLE ACCORDINGLY) (INSTALL PER CITY STANDARD DETAIL 2709)
——	MAINLINE SCHEDULE 40 PVC SIZED PER PLAN (DEPTH OF BURY 28")
——	LATERAL LINE SCHEDULE 40 PVC SIZED PER PLAN (DEPTH OF BURY 18")
= = =	SLEEVING SCHEDULE 40, TWO SIZES LARGER THAN PIPE TO BE SLEEVED, SLEEVE EACH PIPE INDIVIDUALLY

2 | 11 — VALVE NUMBER / GALLONS PER MINUTE FOR VALVE
1" — VALVE SIZE

IRRIGATION WATERING SCHEDULE - TURF MAINTENANCE

TO APPLY 7.37" IN 31 DAYS FOR FESCUE TURFGRASS AND 4.17" IN 31 DAYS FOR NATIVE TURFGRASS

PROGRAM	STATION	PRECIP IN/HR	RUNTIME IN MINUTES	CYCLES/ IRRIGATION	IRRIGATIONS/ MONTH	COMMENTS
1	4	1.58	20	1	8	NATIVE TURFGRASS (4.17" PER MONTH)
2	7,8,9,10	1.58	20	1	14	FESCUE TURFGRASS (7.37" PER MONTH)

IRRIGATION WATERING SCHEDULE - ESTABLISHMENT OF NATIVE AREAS

PROGRAM	STATION	PRECIP IN/HR	RUNTIME IN MINUTES	CYCLES/ IRRIGATION	IRRIGATIONS/ MONTH	COMMENTS
1	5,6	.40	6	3	31	NATIVE MEADOW 3.72" PER MONTH

VALVE SCHEDULE

VALVE #	VALVE SIZE	TOTAL GPM	HEAD TYPE	MAX GPM/HEAD
MV1	1 1/2"	41	MASTER METER	
2	1"	6	RAINBIRD DIST. TUBE	1
3	1 1/2"	24	RAINBIRD 1804-12	1.30
4	1 1/2"	20	RAINBIRD 1804-15	3.70
5	1 1/2"	33	HUNTER 1-20-1.0	.70
6	1 1/2"	16	HUNTER I-20-2.0	2.00
7	1 1/2"	36	RAINBIRD 1804-15	3.70
8	1 1/2"	35	RAINBIRD 1804-15	3.70
9	1 1/2"	41	RAINBIRD 1804-15	3.70
10	1 1/2"	41	RAINBIRD 1804-15	3.70
11	1"	9	RAINBIRD 1402 BUB	.50

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

BENCH MARKS
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FIELD NOTES

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STATE OF NEW MEXICO — M. LAURIE AGUILAR — No. 245 — REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY

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DRAWN BY R&D — DATE 9-18-98
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CITY OF ALBUQUERQUE
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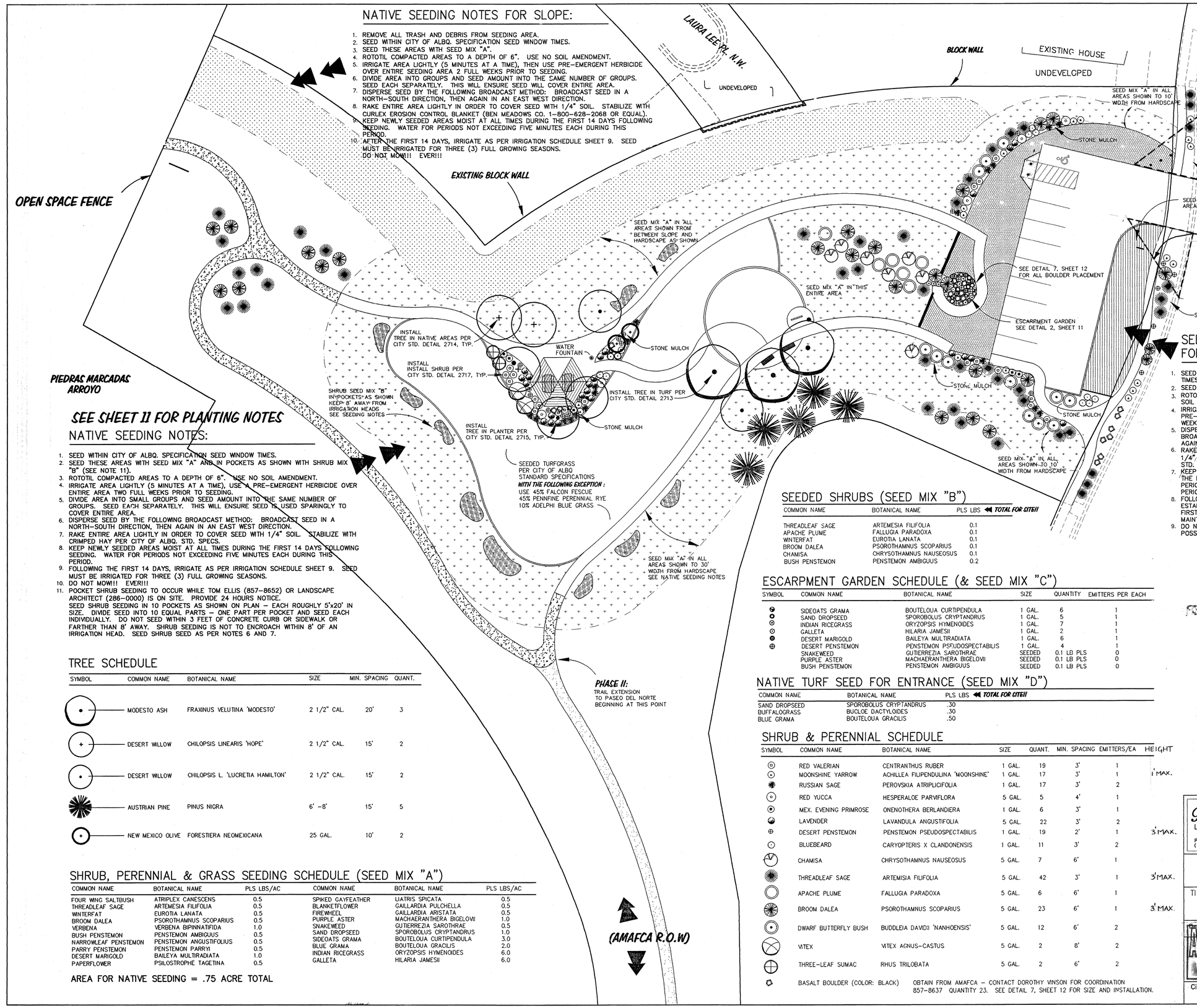
TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
IRRIGATION PLAN

Design Review Committee — APPROVED — DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No. 5689.90 | Zone Map No. C-12-Z | Sheet 9 Of 13

NATIVE SEEDING NOTES FOR SLOPE:

1. REMOVE ALL TRASH AND DEBRIS FROM SEEDING AREA.
2. SEED WITHIN CITY OF ALBQ. SPECIFICATION SEED WINDOW TIMES.
3. SEED THESE AREAS WITH SEED MIX "A".
4. ROTOTIL COMPACTED AREAS TO A DEPTH OF 6". USE NO SOIL AMENDMENT.
5. IRRIGATE AREA LIGHTLY (5 MINUTES AT A TIME), THEN USE PRE-EMERGENT HERBICIDE OVER ENTIRE SEEDING AREA 2 FULL WEEKS PRIOR TO SEEDING.
6. DIVIDE AREA INTO GROUPS AND SEED AMOUNT INTO THE SAME NUMBER OF GROUPS. SEED EACH SEPARATELY. THIS WILL ENSURE SEED WILL COVER ENTIRE AREA.
7. DISPERSE SEED BY THE FOLLOWING BROADCAST METHOD: BROADCAST SEED IN A NORTH-SOUTH DIRECTION, THEN AGAIN IN AN EAST WEST DIRECTION.
8. RAKE ENTIRE AREA LIGHTLY IN ORDER TO COVER SEED WITH 1/4" SOIL. STABILIZE WITH CURLEX EROSION CONTROL BLANKET (BEN MEADOWS CO. 1-800-628-2068 OR EQUAL).
9. KEEP NEWLY SEEDED AREAS MOIST AT ALL TIMES DURING THE FIRST 14 DAYS FOLLOWING SEEDING. WATER FOR PERIODS NOT EXCEEDING FIVE MINUTES EACH DURING THIS PERIOD.
10. AFTER THE FIRST 14 DAYS, IRRIGATE AS PER IRRIGATION SCHEDULE SHEET 9. SEED MUST BE IRRIGATED FOR THREE (3) FULL GROWING SEASONS. DO NOT MOW!!! EVER!!!



SEE SHEET 11 FOR PLANTING NOTES

NATIVE SEEDING NOTES:

1. SEED WITHIN CITY OF ALBQ. SPECIFICATION SEED WINDOW TIMES.
2. SEED THESE AREAS WITH SEED MIX "A" AND IN POCKETS AS SHOWN WITH SHRUB MIX "B" (SEE NOTE 11).
3. ROTOTIL COMPACTED AREAS TO A DEPTH OF 6". USE NO SOIL AMENDMENT.
4. IRRIGATE AREA LIGHTLY (5 MINUTES AT A TIME), USE A PRE-EMERGENT HERBICIDE OVER ENTIRE AREA TWO FULL WEEKS PRIOR TO SEEDING.
5. DIVIDE AREA INTO SMALL GROUPS AND SEED AMOUNT INTO THE SAME NUMBER OF GROUPS. SEED EACH SEPARATELY. THIS WILL ENSURE SEED IS USED SPARINGLY TO COVER ENTIRE AREA.
6. DISPERSE SEED BY THE FOLLOWING BROADCAST METHOD: BROADCAST SEED IN A NORTH-SOUTH DIRECTION, THEN AGAIN IN AN EAST WEST DIRECTION.
7. RAKE ENTIRE AREA LIGHTLY IN ORDER TO COVER SEED WITH 1/4" SOIL. STABILIZE WITH CRIMPED HAY PER CITY OF ALBQ. STD. SPECS.
8. KEEP NEWLY SEEDED AREAS MOIST AT ALL TIMES DURING THE FIRST 14 DAYS FOLLOWING SEEDING. WATER FOR PERIODS NOT EXCEEDING FIVE MINUTES EACH DURING THIS PERIOD.
9. FOLLOWING THE FIRST 14 DAYS, IRRIGATE AS PER IRRIGATION SCHEDULE SHEET 9. SEED MUST BE IRRIGATED FOR THREE (3) FULL GROWING SEASONS.
10. DO NOT MOW!!! EVER!!!
11. POCKET SHRUB SEEDING TO OCCUR WHILE TOM ELLIS (857-8652) OR LANDSCAPE ARCHITECT (286-0000) IS ON SITE. PROVIDE 24 HOURS NOTICE. SEED SHRUB SEEDING IN 10 POCKETS AS SHOWN ON PLAN – EACH ROUGHLY 5'x20' IN SIZE. DIVIDE SEED INTO 10 EQUAL PARTS – ONE PART PER POCKET AND SEED EACH INDIVIDUALLY. DO NOT SEED WITHIN 3 FEET OF CONCRETE CURB OR SIDEWALK OR FARTHER THAN 8' AWAY. SHRUB SEEDING IS NOT TO ENCROACH WITHIN 8' OF AN IRRIGATION HEAD. SEED SHRUB SEED AS PER NOTES 6 AND 7.

TREE SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	MIN. SPACING	QUANT.
	MODESTO ASH	FRAXINUS VELUTINA 'MODESTO'	2 1/2" CAL.	20'	3
	DESERT WILLOW	CHILOPSIS LINEARIS 'HOPE'	2 1/2" CAL.	15'	2
	DESERT WILLOW	CHILOPSIS L. 'LUCRETIA HAMILTON'	2 1/2" CAL.	15'	2
	AUSTRIAN PINE	PINUS NIGRA	6' -8'	15'	5
	NEW MEXICO OLIVE	FORESTIERA NEOMEXICANA	25 GAL.	10'	2

SHRUB, PERENNIAL & GRASS SEEDING SCHEDULE (SEED MIX "A")

COMMON NAME	BOTANICAL NAME	PLS LBS/AC	COMMON NAME	BOTANICAL NAME	PLS LBS/AC
FOUR WING SALTBUSH	ATRIPLEX CANESCENS	0.5	SPIKED GAYFEATHER	LIATRIS SPICATA	0.5
THREADLEAF SAGE	ARTEMESIA FILIFOLIA	0.5	BLANKETFLOWER	GAILLARDIA PULCHELLA	0.5
WINTERFAT	EUROTIA LANATA	0.5	FIREWHEEL	GAILLARDIA ARISTATA	0.5
BROOM DALEA	PSOROTHAMNUS SCOPARIUS	0.5	PURPLE ASTER	MACHAERANTHERA BIGELOVII	1.0
VERBENA	VERBENA BIPINNATIFIDA	1.0	SNAKEWEED	GUTIERREZIA SAROTHRAE	0.5
BUSH PENSTEMON	PENSTEMON AMBIGUUS	0.5	SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1.0
NARROWLEAF PENSTEMON	PENSTEMON ANGUSTIFOLIUS	0.5	SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	3.0
PARRY PENSTEMON	PENSTEMON PARRYI	0.5	BLUE GRAMA	BOUTELOUA GRACILIS	2.0
DESERT MARIGOLD	BAILEYA MULTIRADIATA	1.0	INDIAN RICEGRASS	ORYZOPSIS HYMENOIDES	6.0
PAPERFLOWER	PSILOSTROPHE TAGETINA	0.5	GALLETA	HILARIA JAMESII	6.0

AREA FOR NATIVE SEEDING = .75 ACRE TOTAL

SEEDED SHRUBS (SEED MIX "B")

COMMON NAME	BOTANICAL NAME	PLS LBS ◄ TOTAL FOR SITE!!
THREADLEAF SAGE	ARTEMESIA FILIFOLIA	0.1
APACHE PLUME	FALLUGIA PARADOXA	0.1
WINTERFAT	EUROTIA LANATA	0.1
BROOM DALEA	PSOROTHAMNUS SCOPARIUS	0.1
CHAMISA	CHRYSOTHAMNUS NAUSEOSUS	0.1
BUSH PENSTEMON	PENSTEMON AMBIGUUS	0.2

ESCARPMENT GARDEN SCHEDULE (& SEED MIX "C")

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	EMITTERS PER EACH
	SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	1 GAL.	6	1
	SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1 GAL.	5	1
	INDIAN RICEGRASS	ORYZOPSIS HYMENOIDES	1 GAL.	7	1
	GALLETA	HILARIA JAMESII	1 GAL.	2	1
	DESERT MARIGOLD	BAILEYA MULTIRADIATA	1 GAL.	6	1
	DESERT PENSTEMON	PENSTEMON PSEUDOSPECTABILIS	1 GAL.	4	1
	SNAKEWEED	GUTIERREZIA SAROTHRAE	SEEDED	0.1 LB PLS	0
	PURPLE ASTER	MACHAERANTHERA BIGELOVII	SEEDED	0.1 LB PLS	0
	BUSH PENSTEMON	PENSTEMON AMBIGUUS	SEEDED	0.1 LB PLS	0

NATIVE TURF SEED FOR ENTRANCE (SEED MIX "D")

COMMON NAME	BOTANICAL NAME	PLS LBS ◄ TOTAL FOR SITE!!
SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	.30
BUFFALOGRASS	BUCLOE DACTYLOIDES	.30
BLUE GRAMA	BOUTELOUA GRACILIS	.50

SHRUB & PERENNIAL SCHEDULE

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	QUANT.	MIN. SPACING	EMITTERS/EA	HEIGHT
	RED VALERIAN	CENTRANTHUS RUBER	1 GAL.	19	3'	1	
	MOONSHINE YARROW	ACHILLEA FILIPENDULINA 'MOONSHINE'	1 GAL.	17	3'	1	1' MAX.
	RUSSIAN SAGE	PEROVSKIA ATRIPLICIFOLIA	1 GAL.	17	3'	2	
	RED YUCCA	HESPERALOE PARVIFLORA	5 GAL.	5	4'	1	
	MEX. EVENING PRIMROSE	ONENOTHERA BERLANDIERA	1 GAL.	6	3'	1	
	LAVENDER	LAVANDULA ANGUSTIFOLIA	5 GAL.	22	3'	2	
	DESERT PENSTEMON	PENSTEMON PSEUDOSPECTABILIS	1 GAL.	19	2'	1	3' MAX.
	BLUEBEARD	CARYOPTERIS X CLANDONENSIS	1 GAL.	11	3'	2	
	CHAMISA	CHRYSOTHAMNUS NAUSEOSUS	5 GAL.	7	6'	1	
	THREADLEAF SAGE	ARTEMISIA FILIFOLIA	5 GAL.	42	3'	1	3' MAX.
	APACHE PLUME	FALLUGIA PARADOXA	5 GAL.	6	6'	1	
	BROOM DALEA	PSOROTHAMNUS SCOPARIUS	5 GAL.	23	6'	1	3' MAX.
	DWARF BUTTERFLY BUSH	BUDDLEIA DAVIDII 'NANHOENSIS'	5 GAL.	12	6'	2	
	VITEX	VITEX AGNUS-CASTUS	5 GAL.	2	8'	2	
	THREE-LEAF SUMAC	RHUS TRILOBATA	5 GAL.	2	6'	2	
	BASALT BOULDER (COLOR: BLACK)	OBTAIN FROM AMAFCA – CONTACT DOROTHY VINSON FOR COORDINATION 857-8637 QUANTITY 23. SEE DETAIL 7, SHEET 12 FOR SIZE AND INSTALLATION.					

SEEDING NOTES FOR NATIVE TURF AT ENTRANCE:

1. SEED WITHIN CITY OF ALBQ. SPECIFICATION SEED WINDOW TIMES.
2. SEED THESE AREAS WITH SEED MIX "D".
3. ROTOTIL COMPACTED AREAS TO A DEPTH OF 6". USE NO SOIL AMENDMENT.
4. IRRIGATE AREA LIGHTLY (5 MINUTES AT A TIME), USE A PRE-EMERGENT HERBICIDE OVER ENTIRE AREA TWO FULL WEEKS PRIOR TO SEEDING.
5. DISPERSE SEED BY THE FOLLOWING BROADCAST METHOD: BROADCAST SEED IN A NORTH-SOUTH DIRECTION, THEN AGAIN IN AN EAST WEST DIRECTION.
6. RAKE ENTIRE AREA LIGHTLY IN ORDER TO COVER SEED WITH 1/4" SOIL. STABILIZE WITH CRIMPED HAY PER CITY OF ALBQ. STD. SPECS.
7. KEEP NEWLY SEEDED AREAS MOIST AT ALL TIMES DURING THE FIRST 14 DAYS FOLLOWING SEEDING. WATER FOR PERIODS NOT EXCEEDING FIVE MINUTES EACH DURING THIS PERIOD.
8. FOLLOWING THE FIRST 14 DAYS, IRRIGATE AS PER ESTABLISHEMENT IRRIGATION SCHEDULE SHEET 9, FOR THE FIRST 3 GROWING SEASONS. IRRIGATE THEREAFTER AS PER MAINTENANCE IRRIGATION SCHEDULE.
9. DO NOT MOW UNTIL END OF 2ND GROWING SEASON IF POSSIBLE.

NORTH THIS WAY

SCALE 1" = 20'-0"

AS-BUILT INFORMATION
CONTRACTOR
WORK INSPECTOR
DATE
INSPECTOR'S ACCEPTANCE BY
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FIELD VERIFICATION BY
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STATE OF NEW MEXICO
M. LAURIE ACUNA
NEW MEXICO REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	

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CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DESIGN & DEVELOPMENT

TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
PLANTING PLAN

Design Review Committee: APPROVED
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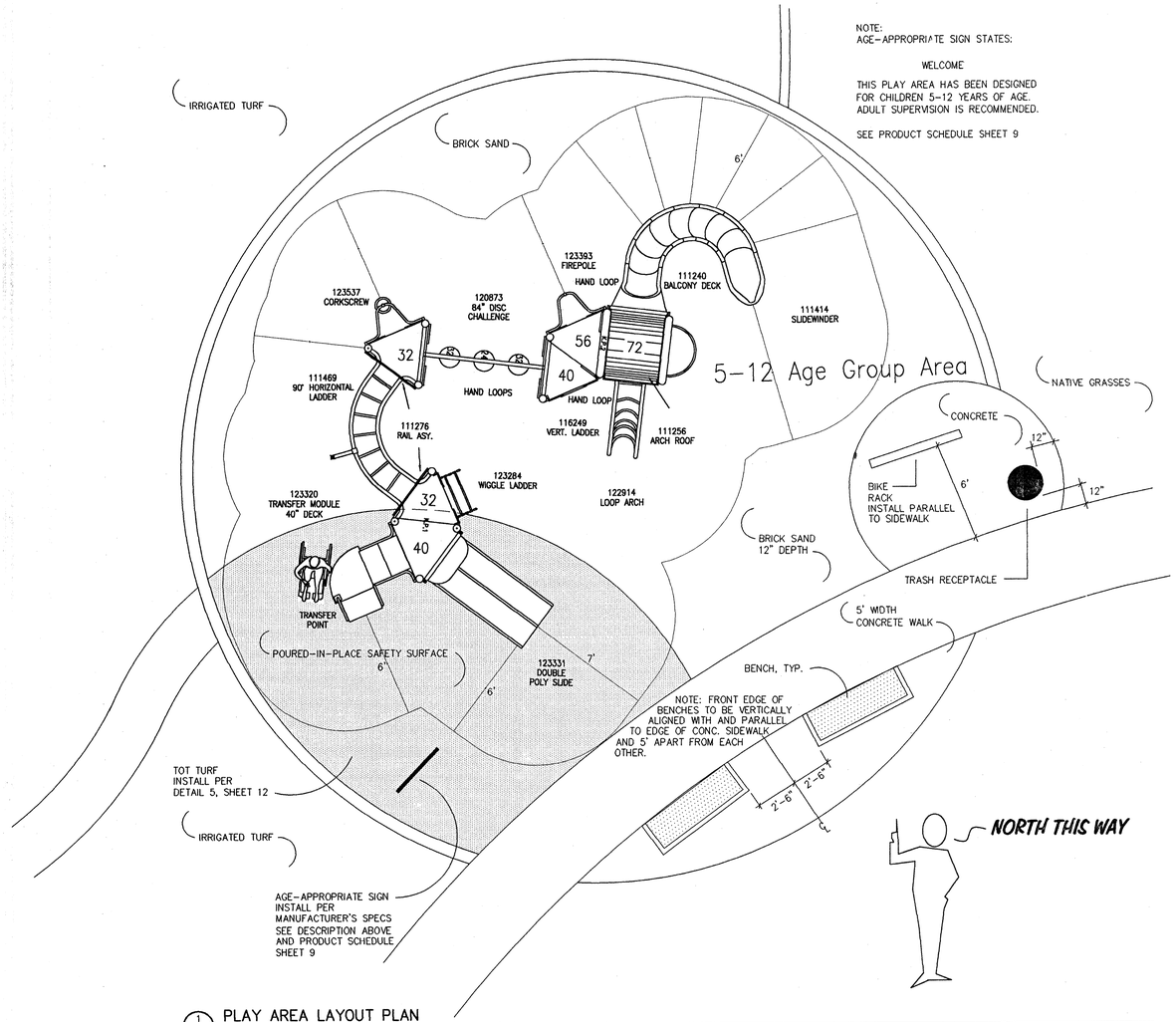
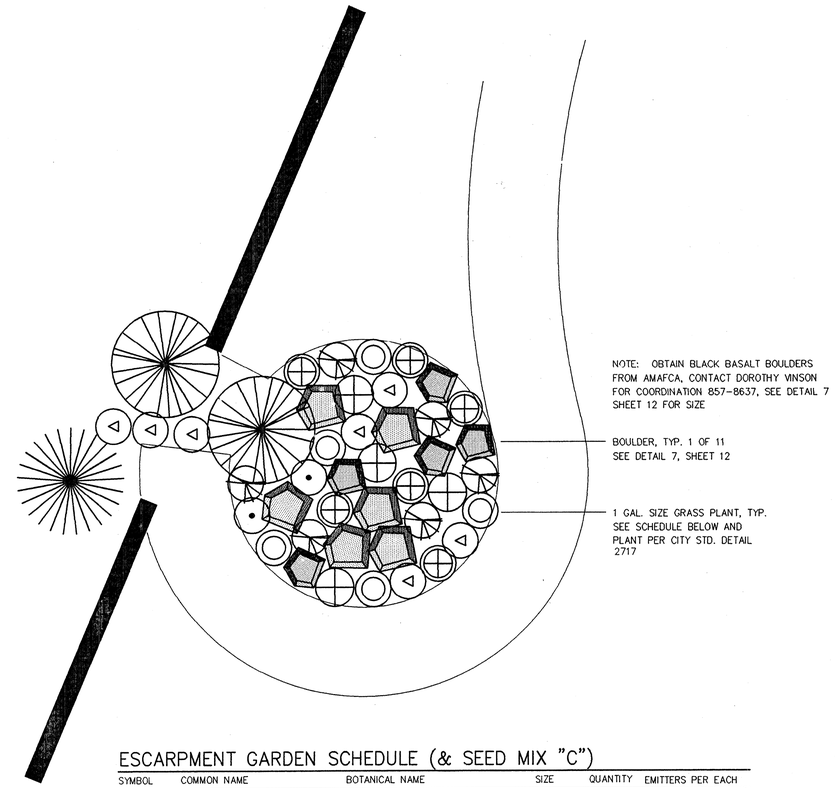
Sheet 10 Of 13



1/11 PLAY AREA LAYOUT PLAN

SCALE: 1/4" = 1' - 0"



ESCARPMENT GARDEN SCHEDULE (& SEED MIX "C")

SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	QUANTITY	EMITTERS PER EACH
	SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	1 GAL.	6	1
	SAND DROPSEED	SPOROBOLUS CRYPTANDRUS	1 GAL.	5	1
	INDIAN RICEGRASS	ORYZOPSIS HYMENOIDES	1 GAL.	7	1
	GALLETA	HILARIA JAMESII	1 GAL.	2	1
	DESERT MARIGOLD	BAILEYA MULTIRADIATA	1 GAL.	6	1
	DESERT PENSTEMON	PENSTEMON PSEUDOSPECTABILIS	1 GAL.	4	1
	SNAKEWEED	GUTIERREZIA SAROTHRAE	SEEDED	0.1 LB PLS	0
	PURPLE ASTER	MACHAERANTHERA BIGELOVII	SEEDED	0.1 LB PLS	0
	BUSH PENSTEMON	PENSTEMON AMBIGUUS	SEEDED	0.1 LB PLS	0

2/11 ESCARPMENT GARDEN PLANT AND BOULDER LAYOUT

SCALE: 1/4" = 1' - 0"

PLANTING NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF AND AVOID DAMAGE TO ALL UNDERGROUND UTILITIES.
2. ANY PLANT SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. THE CONTRACTOR IS NOT TO INSTALL PLANT MATERIAL AS SHOWN ON PLANS IF EVIDENT THAT FIELD CONDITIONS EXIST THAT WERE NOT CONSIDERED IN THE DESIGN. SUCH CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. PLANT MATERIAL TO BE PLANTED AS SOON AS POSSIBLE FOLLOWING DELIVERY TO THE SITE. BACKFILL ALL PLANTS WITH 3 PARTS CLEAN NATIVE STOCKPILED TOPSOIL AND 1 PART DECOMPOSED DAIRY MANURE. REMOVE ALL STONE OVER 1" DIAMETER FROM BACKFILL SOIL.
5. LANDSCAPE ARCHITECT TO TAG TREES AT NURSERY PRIOR TO PURCHASE AND INSTALLATION. LANDSCAPE ARCHITECT TO VISUALLY OBSERVE PLANT MATERIAL FOR SIZE AND VIGOR, AND SPOT LOCATIONS PRIOR TO INSTALLATION. PROVIDE 48 HOUR NOTICE TO LANDSCAPE ARCHITECT. PLANTING AREAS ARE NOT TO STAND BARE FOR LONGER THAN NEEDED FOR REMOVALS AND CONSTRUCTION.
6. MULCH ALL SHRUB PLANTERS WITH 3" DEPTH GRAVEL MULCH. GRAVEL MULCH TO BE 3/4"-1" DIA. IN SIZE. STONE TO BE CUT SANTA FE BROWN FROM WESTERN MOBILE (LAFARGE) 828-2448. FILTER FABRIC TO BE INSTALLED BENEATH ALL STONE MULCH IN ALL PLANTERS.
7. ALL VITEX, NEW MEXICO OLIVE, AND DESERT WILLOW SPECIMENS TO BE MULTI-TRUNKED TREE FORMS.
8. CENTER OF SHRUBS TO BE NO CLOSER TO HARD SURFACE THAN 4'-0". CALL LANDSCAPE ARCHITECT TO SPOT PLANT LOCATIONS PRIOR TO INSTALLATION 286-0000.

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

BENCH MARKS
A.C.S. SURVEY CONTROL MONUMENT "3-B12"
ELEVATION: 5277.263 FEET
STATION IS A 3 1/4" ALUMINUM CAP AND IS STAMPED "3-B12", 1986
SET FLUSH IN LAVA ROCK

SURVEY INFORMATION
FIELD NOTES

ENGINEER'S SEAL
STATE OF NEW MEXICO — M. LAURIE AGUILAR — NEW MEXICO REGISTERED LANDSCAPE ARCHITECT

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY LRA DATE 9-18-98
DRAWN BY LRA DATE 9-18-98
CHECKED BY LRA DATE 9-18-98

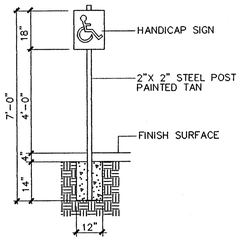
Roddick & Dunbar Ltd.
LANDSCAPE ARCHITECTURE
PO BOX 1502 CEDAR CREST NM 87008
(505)286-0000 VOICE (505)286-1510 FAX

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DESIGN & DEVELOPMENT

TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
SITE DETAILS

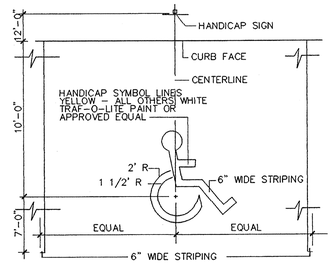
Design Review Committee — APPROVED — DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update — Mo./Day/Yr. — Mo./Day/Yr.

City Project No. 5689.90 | Zone Map No. C-12-Z | Sheet 11 Of 13



1/12 PARKING LOT HANDICAP SIGN DETAIL

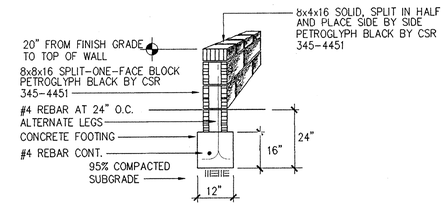
N.T.S.



2/12 PARKING LOT HANDICAP SYMBOL DETAIL

N.T.S.

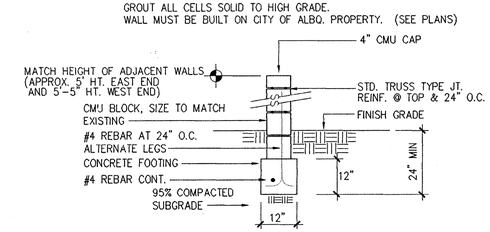
NOTE: GROUT ALL CELLS SOLID TO HIGH GRADE.



3/12 WALL AT ENTRANCE PLAZA DETAIL

N.T.S.

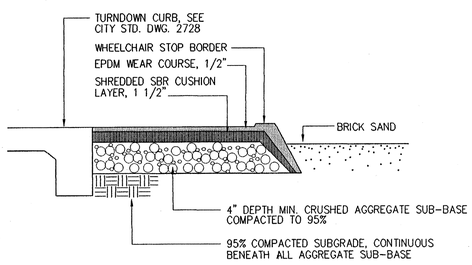
NOTE: USE TAN COLORED CMU BLOCK TO MATCH EXISTING.
GROUT ALL CELLS SOLID TO HIGH GRADE.
WALL MUST BE BUILT ON CITY OF ALBQ. PROPERTY. (SEE PLANS)



4/12 CMU WALL AT LAURA LEE PLACE

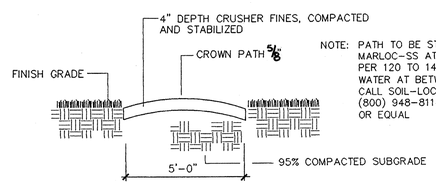
N.T.S.

FOR DIMENSIONS OF TOT TURF SEE DETAIL 1, SHEET 11, AND PRODUCT SCHEDULE FOR SUPPLIER AND OTHER INFORMATION, SHEET 7



5/12 PLAY AREA FLEXIBLE SURFACE INSTALLATION

N.T.S.

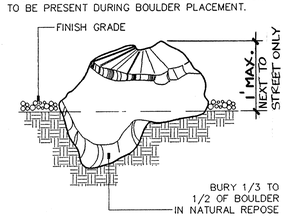


NOTE: PATH TO BE STABILIZED WITH MARLOC-SS AT RATE OF 1 GAL. PER 120 TO 140 SF DILUTED IN WATER AT BETWEEN 20:1 AND 30:1. CALL SOIL-LOC, INC. @ (800) 948-8114 OR EQUAL

6/12 CRUSHER FINES PATH DETAIL

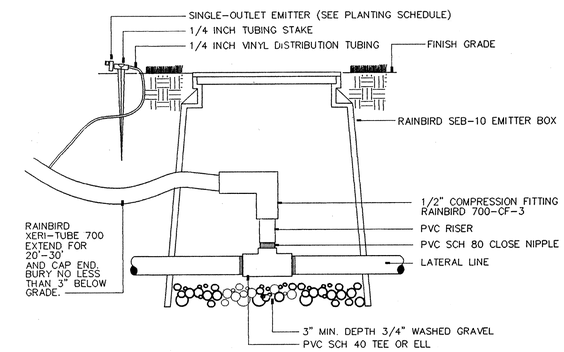
N.T.S.

NOTE: ALL BOULDERS TO BE A MINIMUM OF 12 CUBIC FEET AND MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. LAND. ARCH. TO BE PRESENT DURING BOULDER PLACEMENT.



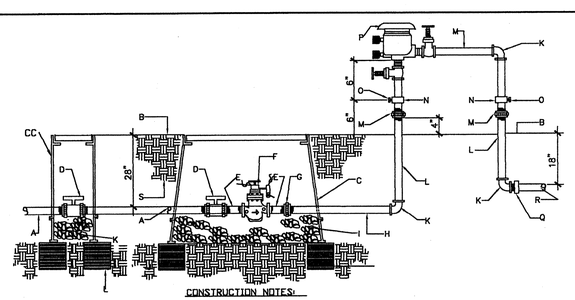
7/12 BOULDER PLACEMENT DETAIL

N.T.S.



8/12 XERI-TUBE INSTALLATION DETAIL

N.T.S.



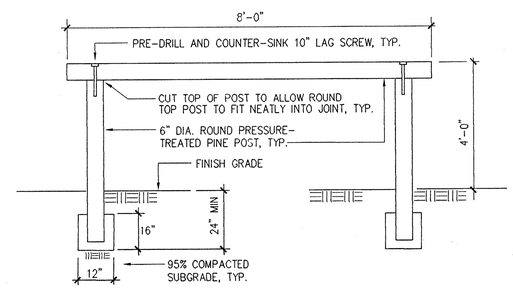
GENERAL NOTES:

1. PVB'S ARE UNAPPROVED FOR CONTAINMENT PROTECTION, EXCEPT FOR LAWN IRRIGATION SYSTEMS.
2. DO NOT INSTALL IN FLOOD PRONE AREAS.
3. DO NOT INSTALL PVB'S MORE THAN 5' ABOVE GROUND LEVEL. PVB'S MUST BE 12" MIN. ABOVE HIGHEST POINT OF ALL DOWNSTREAM PIPING AND OUTLETS.
4. HORIZONTAL PVB INSTALLATION REQUIRED. (POSITIONED AS SHOWN).
5. JOINTS TO BE ADEQUATELY RESTRAINED.
6. METALLIC RISER PIPING REQUIRED.
7. INSTALL A 8"x8"x16" SOLID CMU BLOCK AT EACH CORNER OF THE VALVE BOX.
8. WASH ROCK SHALL BE INSTALLED FLUSH WITH BOTTOM OF PIPE.
9. CONCRETE MOWSTRIP SHALL BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE MASTERVALVE AND PVB ASSEMBLY. MOWSTRIP SHALL BE A MIN. OF 12" FROM PIPING AND VALVE BOX. (OPTIONAL, DEPENDING ON APPLICATION).

CONSTRUCTION NOTES:

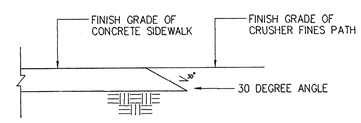
A. SERVICE LINE TO WATER METER, NO OUTLETS ALLOWED.
B. FINISH GRADE, MATERIAL VARIES REFERENCE PLANS.
C. BROOKS PRODUCTS INC., 1730 PB-18 BODY (ABS) VALVE BOX W/ BOLT DOWN COVER (ABS) AND ONE 8" EXTENSION.
D TRUE UNION SCHEDULE 80 PVC BALL VALVE.
E. SCHEDULE 80 PVC 4" NIPPLE.
F. BERMAD FLOWMETER. REFERENCE IRRIGATION LEGEND FOR SIZE.
4 WIRE SETUP: 2 BLUE FOR METER 1 RED, 1 WHITE FOR VALVE.
G. SPREARS SCHEDULE 80 PVC UNION.
H. SCHEDULE 80 PVC NIPPLE 3" MIN.
I. 1" DIAMETER WASHED ROCK.
J. 8"x8"x16" SOLID CMU BLOCK.
K. GALVANIZED ELL.
L. GALVANIZED NIPPLE.
M. GALVANIZED UNION (MIN. 4" ABOVE GRADE).
N. GALVANIZED TEE.
O. BALL DRAIN, CHAMPION DV050 1/2".
P. PVB BACKFLOW PREVENTER (REFERENCE DRAWINGS).
Q. PVC MIP ADAPTER.
R. NON-CONSTANT PRESSURE IRRIGATION MAINLINE.
S. COMPACTED SUBGRADE.

REVISIONS	CITY OF ALBUQUERQUE
9/98	LANDSCAPE MASTER METER W/ PVB MASTERVALVE ASSEMBLY DWG. 2702-A SEPT. 1998



9/12 HORSE TIE-UP RAILING DETAIL

N.T.S.



10/12 EDGE OF CONCRETE SIDEWALK DETAIL

N.T.S.

FOR INFORMATION ONLY

FOR INFORMATION ONLY

Roddick & Dunbar Ltd.
LANDSCAPE ARCHITECTURE
PO BOX 1502 CEDAR CREST NM 87008
(505)286-0000 VOICE (505)286-1810 FAX

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY LRA DATE 9-18-98
DRAWN BY LRA DATE 9-18-98
CHECKED BY LRA DATE 9-18-98

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

BENCH MARKS
A.C.S. SURVEY CONTROL MONUMENT "3-B12"
ELEVATION: 5277.263 FEET
STATION IS A 3 1/4" ALUMINUM CAP AND IS STAMPED "3-B12", 1986
SET FLUSH IN LAVA ROCK

SURVEY INFORMATION
FIELD NOTES

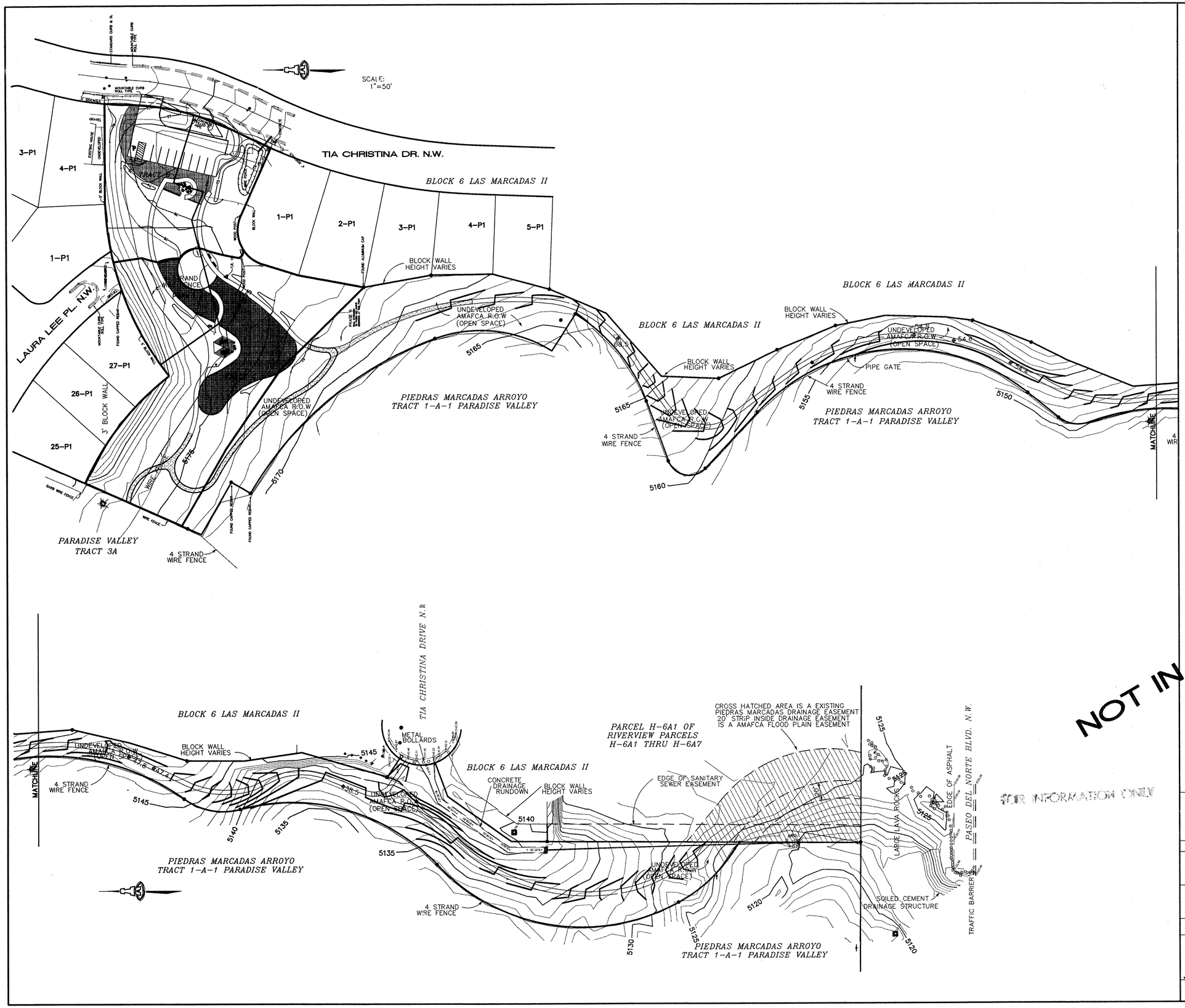
ENGINEER'S SEAL
SEAL OF NEW MEXICO M. LAURIE ACUNA NEW MEXICO REGISTERED LANDSCAPE ARCHITECT

CITY OF ALBUQUERQUE
CAPITAL IMPLEMENTATION PROGRAM
DESIGN & DEVELOPMENT

TITLE: LAS MARCADAS PARK AND OPEN SPACE
CONSTRUCTION DOCUMENTS
SITE DETAILS

Design Review Committee: APPROVED DESIGN REVIEW COMMITTEE
City Engineer Approval
Last Design Update
Mo./Day/Yr. Mo./Day/Yr.

City Project No. 5689.90
Zone Map No. C-12-Z
Sheet 12 Of 13



NOT IN CONTRACT

FOR INFORMATION ONLY

APPROVED FOR CONSTRUCTION

A.M.A.F.C.A. DATE

ISAACSON & ARFMAN, P.A.
Consulting Engineering Associates
128 Monroe Street N.E.
Albuquerque New Mexico

981GRD.DWGmtd 09/16/98

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **LAS MARCADAS II PARK & TRAIL HEAD GRADING & DRAINAGE PLAN**

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No. 5689.90 | Zone Map No. | Sheet 13 Of 13

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

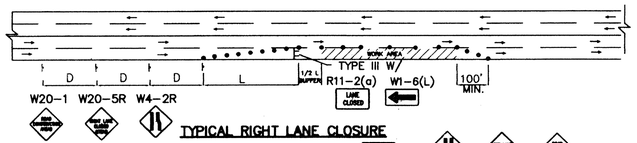
BENCH MARKS
ACS MONUMENT "2-C12" LOCATED AT THE INTERSECTION OF PARADISE HILLS BOULEVARD AND DAVENPORT STREET, N.W. IN THE NW QUADRANT OF THE INTERSECTION.
ELEVATION = 5175.786

SURVEY INFORMATION
FIELD NOTES

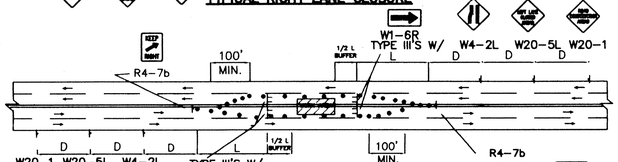
ENGINEER'S SEAL
FRED C. ARFMAN STATE OF NEW MEXICO 7327 REGISTERED PROFESSIONAL ENGINEER
09-16-98

NO.	DATE	REMARKS	BY
		REVISIONS	

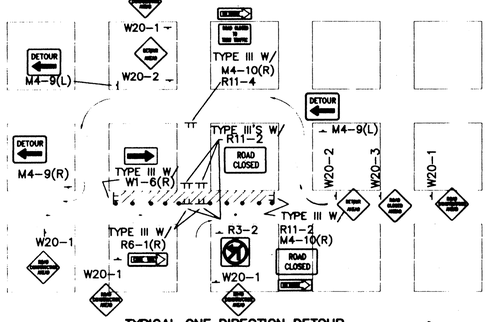
DESIGNED BY FCA DATE OCT 1997
DRAWN BY MTD DATE OCT 1997
CHECKED BY DATE



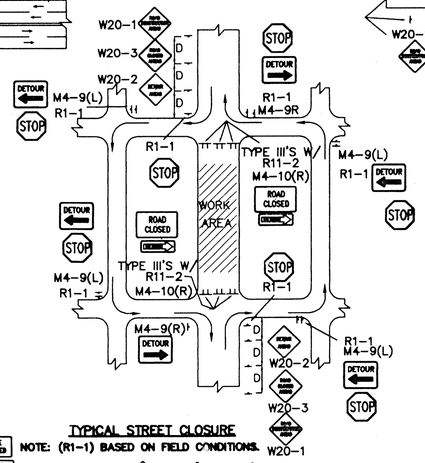
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



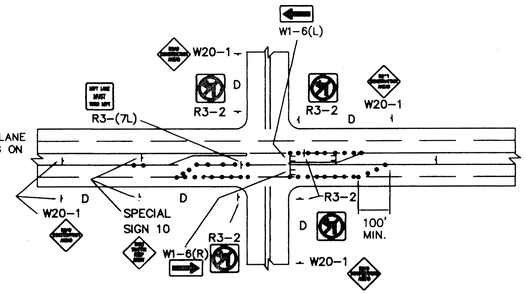
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

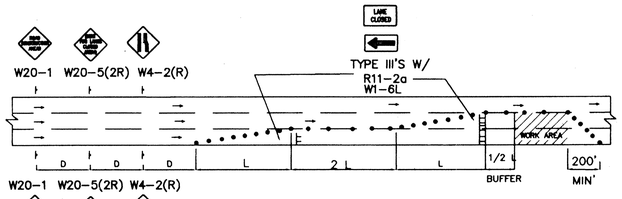
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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

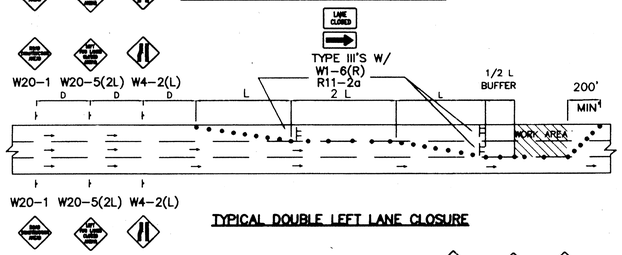


TYPICAL LANE CLOSURE AT INTERSECTION

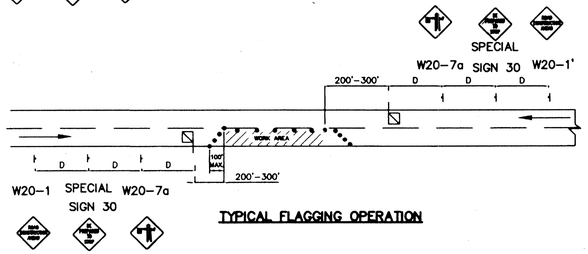
NOTE: DEPENDING ON WORK ZONE LOCATION



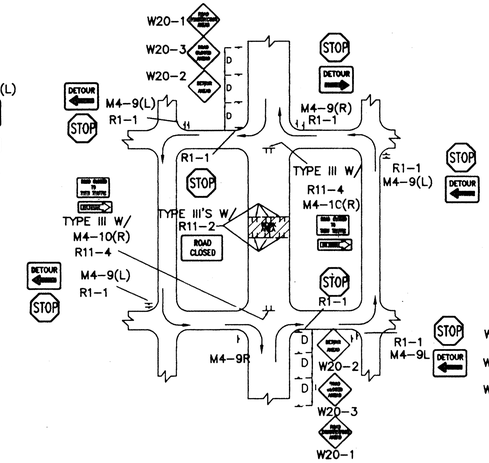
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

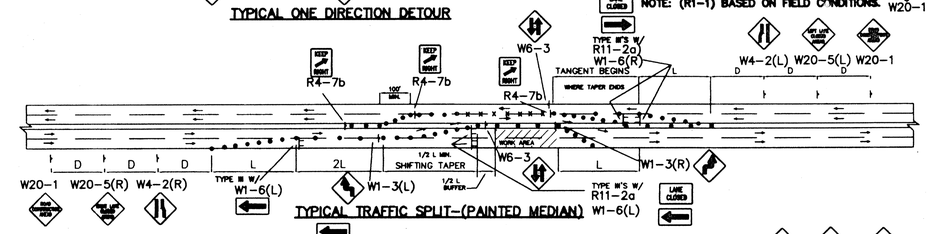


TYPICAL FLAGGING OPERATION

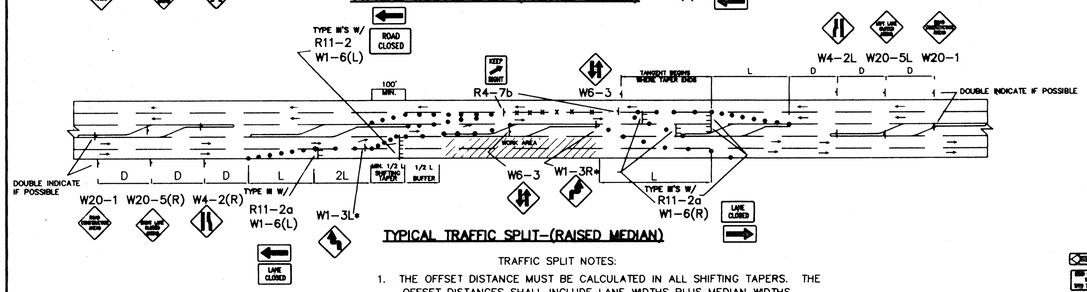


TYPICAL MID-BLOCK CLOSURE

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



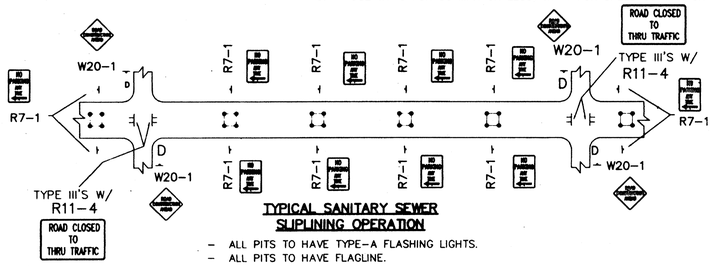
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT-(RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 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.



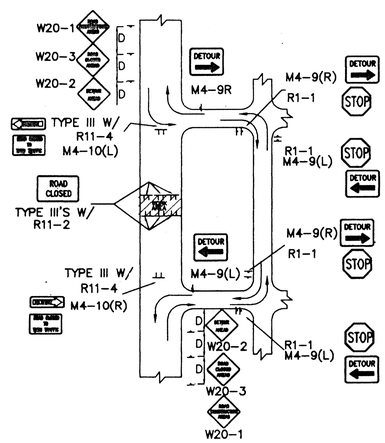
TYPICAL SANITARY SEWER SUPLINING OPERATION

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

GENERAL NOTE:

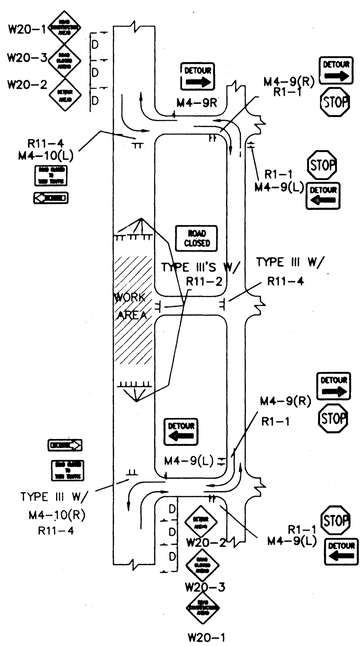
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT. △



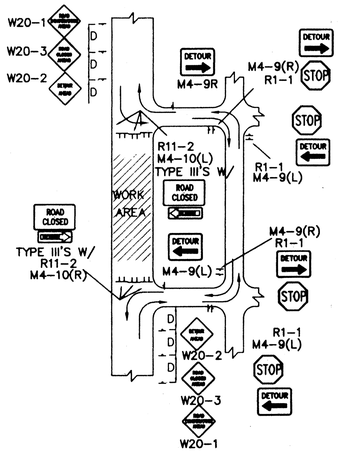
TYPICAL STREET CLOSURE

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.

PRELIMINARY DRAWING
FOR INFORMATION ONLY

AS BUILT INFORMATION

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

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

RICHARD B. ROTH JR. NEW MEXICO LICENSED PROFESSIONAL ENGINEER REGISTERED

NO.	DATE	REMARKS	BY
△	9/24/97	REVISED GENERAL NOTE	J.D.L.

REVISIONS

DESIGN		
DESIGNED BY	C.O.A. STANDARDS	DATE
DRAWN BY		DATE
CHECKED BY		DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

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

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR	MO./DAY/YR
COA Standard				

PROJECT NO. 5689.90 | MAP NO. | SHEET OF

CTCSTND2.DWG

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24HOUR PER DAY BASIS UNTIL COMPLETED. △1

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

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

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

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

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

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

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

19. △2 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.

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

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

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

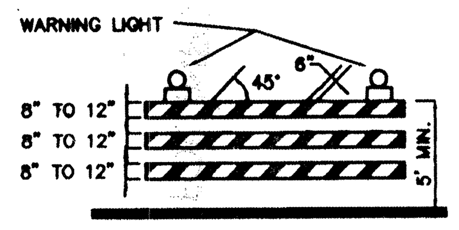
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

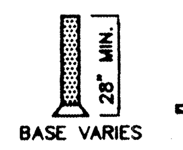
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D. △3

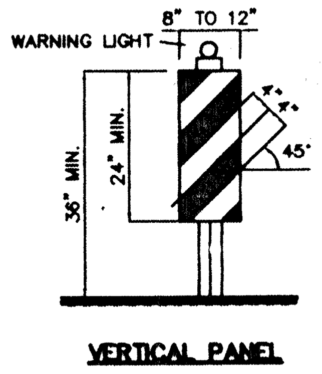
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. △4



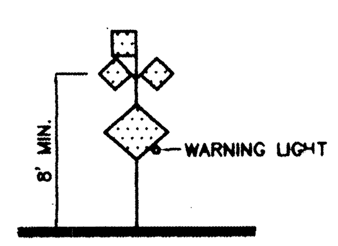
TYPE III BARRICADE



CONES



VERTICAL PANEL

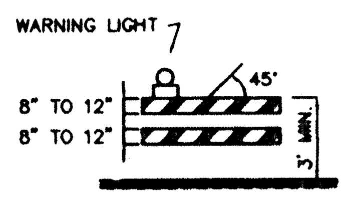


HIGH LEVEL WARNING DEVICE

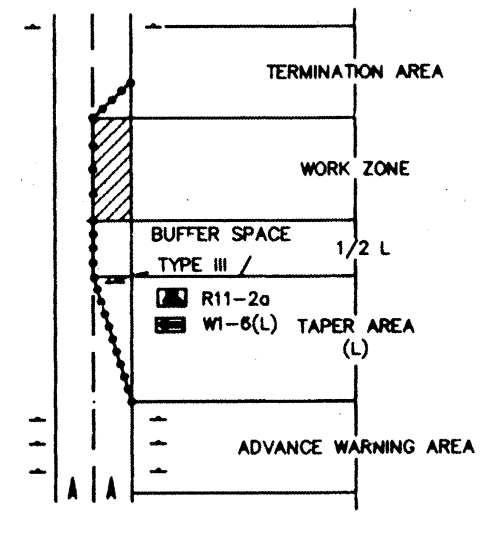
LEGEND

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

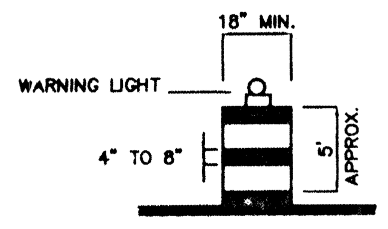
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



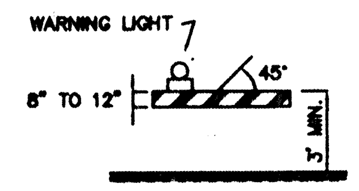
TYPE II BARRICADE
COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS



BARREL



TYPE I BARRICADE
COLLAPSIBLE

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

TAPER CRITERIA

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

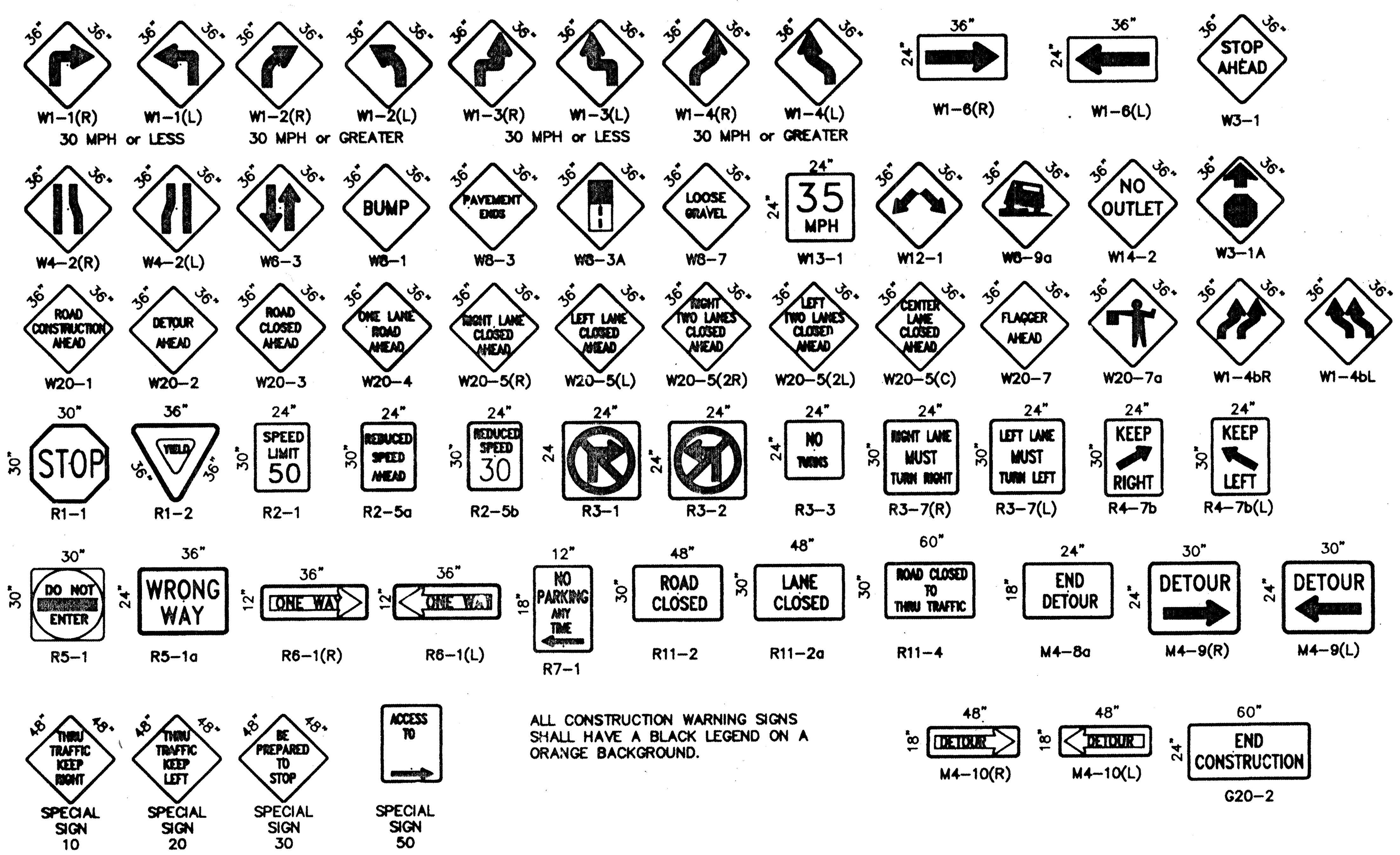
TAPER LENGTH COMPUTATION

SPEED LIMIT	
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

FOR INFORMATION ONLY

SIGN FACE DETAILS



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

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

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

BENCH MARKS

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

ENGINEER'S SEAL

RICARDO B. ROYBAL, NEW MEXICO, REGISTERED PROFESSIONAL ENGINEER

REVISIONS

NO.	DATE	REMARKS	BY
△4	9/25/97	ADD NOTE NO. 27	J.D.L.
△3	9/24/97	REVISED NOTE NO. 26	J.D.L.
△2	9/24/97	REVISED NOTE NO. 19	J.D.L.
△1	9/24/97	REVISED NOTE NO. 11	J.D.L.

DESIGN: DESIGNED BY / DATE; DRAWN BY C.O.A. STANDARDS / DATE; CHECKED BY / DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA Standard				

PROJECT NO. 5689.90 | MAP NO. | SHEET OF

CTCSTND1.DWG