



CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES  
HUNTER'S RUN PARK  
IMPROVEMENTS

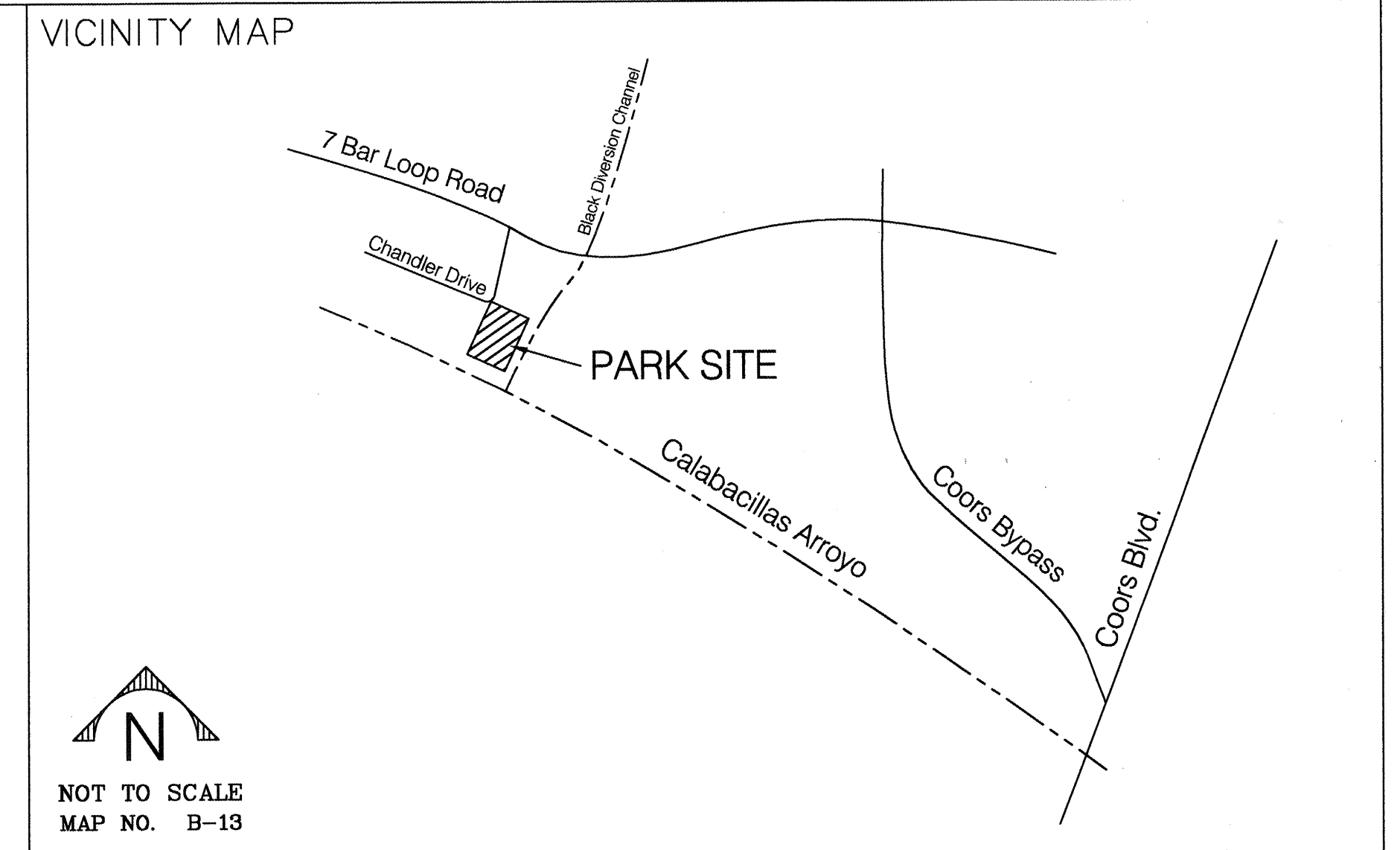
10300 CHANDLER DRIVE NW 3.29 ACRES

FOR INFORMATION ONLY

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET, VICINITY MAP, INDEX TO DRAWINGS
2	GENERAL NOTES & LEGEND
3	SITE PLAN
4	BASIN DEFINITION PLAN
4A	EMERGENCY SPILLWAY DETAILS
5	DRAINAGE CALCULATIONS AND ANALYSIS
6	GRADING AND DRAINAGE PLAN
7	HORIZONTAL GEOMETRY PLAN
8	PLAY AREA LAYOUT AND SITE DETAILS
9	PICNIC RAMADA AND SITE DETAILS
10	SITE AMENITIES LIST AND SITE DETAILS
11	IRRIGATION PLAN, NOTES AND LEGEND
12	IRRIGATION NOTES AND DETAILS
13	PLANTING PLAN, LEGEND, AND NOTES
14	TRAFFIC CONTROL
15	TRAFFIC CONTROL

APPROVED	ENGINEER	DATE
AMAFCA	<i>[Signature]</i>	9-3-99



UTILITY COMPANY CONTACTS

**PNM**  
Jim Vann  
4201 Edith Boulevard NE  
Albuquerque, New Mexico 87107  
(505) 848-3426

**GAS CO.**  
Kelly Bouska  
4625 Edith Blvd., NE  
Albuquerque, New Mexico 87107  
(505) 241-7752

**AT&T**  
Art Marquez  
111 Third ST., NW  
Albuquerque, New Mexico 87103  
(505) 842-2806

**JONES' INTERCABLE**  
Karen Shore  
4611 Montbel Pl., NE  
P.O. Box 27138  
Albuquerque, NM 87125-7138  
(505) 761-6220

**US WEST COMMUNICATIONS**  
Cathy Schneider  
201 Third Street  
Suite 700  
Albuquerque, New Mexico 87102  
(505) 245-6846



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRG Chairman	<i>[Signature]</i>	9-15-99	<i>[Signature]</i> 9/16/99 CITY ENGINEER DATE		
		Transportation	<i>[Signature]</i>	9-8-99			
		Water/Wastewater	<i>[Signature]</i>				
		Hydrology	<i>[Signature]</i>	9-7-99			
		6-18 PARKS	<i>[Signature]</i>	9-8-99			
		NM Utilities	<i>[Signature]</i>	8-5-99			
		Constr. Coord.	<i>[Signature]</i>	9-7-99			
PROJECT NUMBER				573591	SHEET 1 OF 15		



Drawing Name: N:\198633\02\01\1\0\NOTES.DWG  
Saved On: February 6, 1999 at 4:14 PM

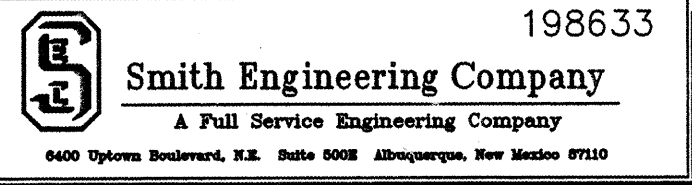
- 1 FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR WILL SUBMIT A DETAILED CONSTRUCTION SCHEDULE TO THE CITY CONSTRUCTION COORDINATION DIVISION. TWO (2) DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF SPECIFICATIONS.
- 2 THE CONTRACTOR WILL NOTIFY THE FIELD ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE FIELD ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR WILL NOTIFY THE ENGINEER IF A MONUMENT IS DISTURBED. REPLACEMENT WILL 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 WILL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4 OF SPECIFICATIONS.
- 3 THE SPECIFICATIONS USED FOR THIS PROJECT ARE THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1994 EDITION, UPDATE NO.6.
- 4 ALL NEW MANHOLES SHALL BE TYPE "E" (COA DWG. 2102) UNLESS OTHERWISE NOTED ON THE PLANS.
- 5 THE CONTRACTOR WILL BE RESPONSIBLE FOR DISPOSING OF ALL DEBRIS, INCLUDING, BUT NOT LIMITED TO HAZARDOUS WASTE AT DISPOSAL SITES APPROVED BY GOVERNMENTAL AGENCIES REGULATING THE DISPOSAL OF SUCH MATERIALS.
- 6 ALL WATER VALVE BOXES AND MANHOLES IN THE STREET CONSTRUCTION ARE TO BE ADJUSTED TO FINISH GRADE AND WILL BE MEASURED AND PAID PER EACH.
- 7 SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVE PADS, AND SUBGRADE AND SUBBASE PREPARATION UNDER CURB AND GUTTER IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH, AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.
- 8 THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF SPECIFICATIONS.
- 9 ALL EXCAVATION WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 10 ALL SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.
- 11 THE CONTRACTOR IS TO EXERCISE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT WILL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. SEE SECTION 10 "UTILITIES", CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS.
- 12 WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES AND REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.
- 13 ALL GAS VALVES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES, AND UTILITY POLES WILL BE ADJUSTED TO GRADE BY EACH UTILITY COMPANY. CONTRACTOR WILL COORDINATE THROUGH CITY UTILITY COORDINATOR.
- 14 WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE DIRECTED BY THE CITY FIELD ENGINEER.
- 15 THE CONTRACTOR WILL NOTIFY THE UTILITY COMPANIES BY CALLING NEW MEXICO ONE CALL SYSTEM 260-1990 TWO (2) WORKING DAYS PRIOR TO COMMENCING WORK IN NEW AREAS.
- 16 CONTRACTOR WILL MAKE ALL WATER VALVES AND MANHOLES ACCESSIBLE TO THE CITY AT ALL TIMES.
- 17 CONTRACTOR WILL PLACE BITUMINOUS MATERIAL WITH THE USE OF A LAYDOWN MACHINE WHERE PAVEMENT IS 8 FEET IN WIDTH OR WIDER.
- 18 ALL SUBGRADE AND SUBBASE MATERIAL ENCOUNTERED IN PAVEMENT REMOVAL AND REPLACEMENT THAT IS DETERMINED BY THE FIELD ENGINEER TO MEET THE SPECIFICATIONS, CAN BE REUSED. HOWEVER, THE MATERIAL WILL BE PROCESSED AND COMPACTED TO MEET MOISTURE CONTENT AND PERCENT COMPACTION REQUIRED BY THE SPECIFICATIONS.
- 19 CONTRACTOR WILL NOT PAVE OVER ANY SURFACE FEATURE, I.E., GAS VALVE, MANHOLE COVER, ETC. WITHOUT PRIOR APPROVAL FROM THE CITY FIELD ENGINEER.
- 20 CONTRACTOR WILL CONFINE HIS WORK WITHIN THE CONSTRUCTION EASEMENT LIMITS AND/OR RIGHT-OF-WAY, OR PROVIDE COPIES OF AGREEMENTS WITH ADJACENT LANDOWNERS TO THE CITY OF ALBUQUERQUE.
- 21 ALL WATER VALVES AND FIRE HYDRANTS REMOVED TO BE SALVAGED AND RETURNED TO THE C.O.A.
- 22 MINIMUM BOTTOM WIDTH OF TRENCHES FOR RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 16 INCHES. BEDDING MATERIAL SHALL BE CLASS II, III, OR IV UNLESS OTHERWISE SPECIFICALLY NOTED ON THE PLANS.
- 23 MINIMUM BOTTOM WIDTH OF TRENCHES FOR NON-RIGID PIPE SHALL BE EQUAL TO THE OUTSIDE DIAMETER PLUS 12 INCHES. BEDDING MATERIAL SHALL BE CLASS I, II, OR III.
- 24 THE CONTRACTOR AGREES TO TAKE NECESSARY SAFETY PRECAUTIONS AS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES TO PROTECT PEDESTRIAN AND VEHICULAR TRAFFIC IN THE CONSTRUCTION AREA, WHICH INCLUDE BUT ARE NOT LIMITED TO: MAINTAINING ADEQUATE WARNING SIGNS, BARRICADES, LIGHTS, GUARD FENCES, WALKS AND BRIDGES.
- 25 ALL STRUCTURAL CONCRETE TO BE 4000 PSI UNLESS OTHERWISE NOTED ON PLANS.
- 26 ALL REINFORCING STEEL TO BE GRADE 60.
- 27 ALL EXPOSED EDGES ON CAST-IN-PLACE CONCRETE STRUCTURES WILL HAVE A 1" CHAMFER UNLESS OTHERWISE NOTED.
- 28 ALL SPLICES IN REINFORCING STEEL TO BE 2-FOOT 6-INCH MINIMUM UNLESS OTHERWISE NOTED.

- 29 PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL CONFLICTING UTILITIES. SHOULD A CONFLICT EXIST BETWEEN THE FIELD INFORMATION AND THE PLANS, THE CONTRACTOR WILL NOTIFY THE CITY FIELD ENGINEER SO THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 30 THE REPLACEMENT OF THE EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE FINAL PAVEMENT WORK STARTS IN EACH AREA. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. MAINTENANCE OF THE TEMPORARY PAVING AND STRIPING WILL BE AT THE CONTRACTOR'S EXPENSE.
- 31 TACK COAT FOR SURFACE COURSE REQUIREMENTS WILL BE DETERMINED BY THE CITY FIELD ENGINEER.
- 32 THE CONTRACTOR WILL CONTACT THE CITY OF ALBUQUERQUE TRAFFIC DIVISION 764-1599, ONE (1) WEEK IN ADVANCE OF ANY CHANGES REQUIRED IN THE TRAFFIC SIGNALIZATION OF THIS PROJECT. ALL WORK ASSOCIATED WITH NEW TRAFFIC SIGNALIZATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 33 ALL NEW STREET PAVING, DRIVEWAYS, SIDEWALKS, AND CURB AND GUTTERS, ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATION OF THOSE AREAS.
- 34 PERMANENT PAVEMENT STRIPING AND MARKINGS WILL BE PLACED BY THE CONTRACTOR. ROAD SHALL NOT BE OPENED TO TRAFFIC UNTIL IT IS STRIPED. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, ARROWS AND LINE MARKINGS ARE TO BE CONSTRUCTED OF HOT PLASTIC OR COLD PLASTIC IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 35 ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS DIRECTED BY THE CITY FIELD ENGINEER.
- 36 THE CONTRACTOR WILL COORDINATE THE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS. A CONTRACT EXTENSION MAY BE ALLOWED AS DELINEATED IN CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- 37 ALL CONSTRUCTION EASEMENTS ON PRIVATE PROPERTY WILL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 38 EXISTING MEDIAN CURB AND GUTTER AND STANDARD CURB AND GUTTER, NOT DISTURBED BY CONTRACTOR, BUT OUT OF ALIGNMENT, DISPLACED VERTICALLY, BADLY BROKEN AND/OR DETERIORATED, WILL BE REPLACED AS DIRECTED BY THE CITY FIELD ENGINEER AND PAID FOR AT CONTRACT UNIT PRICES.
- 39 ALL TRAFFIC CONTROL DEVICES REQUIRED FOR DRIVEWAY CLOSURES, UTILITY CONSTRUCTION OR FOR OTHER REASONS AND NOT SHOWN ON THE SIGNING PLANS WILL BE FURNISHED BY THE CONTRACTOR AND WILL BE PAID AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND BID PROPOSAL. PRIOR TO PLACING THE TRAFFIC CONTROL DEVICES, THE CONTRACTOR WILL NOTIFY THE AFFECTED OWNERS IN ACCORDANCE WITH THE SPECIFICATIONS. CONTRACTOR MUST MAKE PROVISIONS TO PROVIDE ACCESS TO PROPERTIES. REFER TO SECTION 19 OF THE SPECIFICATIONS.
- 40 ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS, WILL BE MAINTAINED IN SERVICE. SHORING, SHEETING AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS WILL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES WILL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR WILL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
- 41 THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING COA INFRASTRUCTURE (C & G, PAVING, ETC.) DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND WILL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. HE WILL SUITABLY PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING THE TACK COAT APPLICATION AND WILL BE RESPONSIBLE FOR CLEANING SAME AT HIS OWN COST SHOULD SPLASHING OCCUR.
- 42 ALL INTERFERING PORTIONS OF ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION WILL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 43 STATIONS OF STORM DRAIN INLETS ARE TO THE CENTER OF GRATE. ALL STORM DRAIN INLETS WILL BE TYPE "A" UNLESS OTHERWISE NOTED ON THE PLANS.
- 44 SHORING COSTS WILL BE CONSIDERED INCIDENTAL TO THE TRENCH AND BACKFILL COSTS.
- 45 THE CONTRACTOR WILL BE RESPONSIBLE FOR SECURING NPDES PERMITS REQUIRED BY APPLICABLE CITY, STATE, AND FEDERAL REGULATIONS.
- 46 ALL STORM DRAIN AND CONNECTOR PIPE WILL BE CLASS IV REINFORCED CONCRETE PIPE UNLESS OTHERWISE NOTED ON THE PLANS.
- 47 THE TERM REMOVE USED IN THIS PLAN SET INCLUDES THE DISPOSAL OF SAID MATERIAL IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS, LATEST EDITION.
- 48 CONTRACTOR WILL SURVEY AND LOG EXISTING ELEVATIONS OF CURB-AND-GUTTER, SIDEWALK, AND PAVEMENT WHICH WILL BE REMOVED FOR CONSTRUCTION OF IMPROVEMENTS. CONTRACTOR WILL REPLACE REMOVED CURB-AND-GUTTER, SIDEWALK, DRIVE PADS, AND PAVEMENT TO ELEVATIONS PRIOR TO REMOVAL UNLESS OTHERWISE INDICATED ON THE PLANS.
- 49 CONTRACTOR WILL CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS DIRECTED BY THE COA ENGINEER TO PROVIDE ACCESS TO LOCAL BUSINESS, ETC. TEMPORARY PAVEMENT SHALL BE REMOVED AND DISPOSED OF PRIOR TO PLACEMENT OF FULL WIDTH PAVEMENT SECTION. TEMPORARY PAVING SHALL BE PER COA STD. DWG. 2415 AND PAID FOR PER COA STD. SPECIFICATIONS.

- 50 ALL CLASSES OF SEEDING SHALL BE DRY LAND MIX PLACED AT 1.5 LBS/1000 S.F. WITH FERTILIZER 21-12-12 PLACED AT 5 LBS/1000 S.F.
- 51 PRE-WETTING OF THE EMBANKMENT FOUNDATION AND KEY TRENCH SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE EMBANKMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- 52 ALL ASPHALTIC CONCRETE SHALL BE MINIMUM 1800 LB. STABILITY AND COMPACTED TO 95% MODIFIED MARSHALL DENSITY UNLESS OTHERWISE NOTED ON THE PLANS.
- 53 ALL RIP-RAP MATERIAL USED ON THIS PROJECT SHALL BE A NATURAL ROCK MATERIAL CONFORMING TO THE SIZE AND MATERIAL PROPERTY REQUIREMENTS SET FORTH IN THE COA STANDARD SPECIFICATIONS. NO BROKEN CONCRETE OR RUBBLE WILL BE ACCEPTED

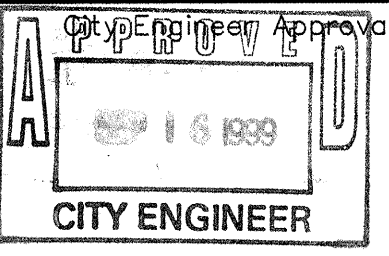
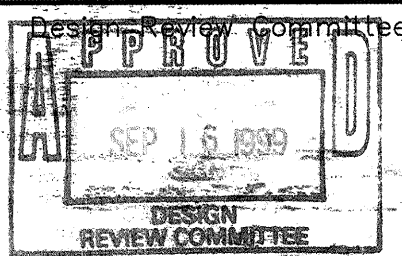
LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING SAS MANHOLE
- NEW TEE MANHOLE
- BORING
- NEW PAVEMENT
- EXISTING CONTOUR LINE
- EXISTING INDEX CONTOUR LINE
- NEW STORM DRAIN
- CENTERLINE
- NEW CONCRETE SIDEWALK (4" THICK) AND CURB LINES
- NEW CONCRETE SIDEWALKS AND CURB LINES 6" THICK TO ACCOMODATE COA SERVICE VEHICLES INTO PARKS
- HORIZONTAL AND VERTICAL CONTROL POINT
- EXISTING UNDERGROUND TELEPHONE
- EXISTING SAS FLOW ARROW
- STORM DRAIN FLOW ARROW
- EASEMENT LINE
- RIPRAP PROTECTION
- NEW STORM DRAIN BEND
- NEW STORM DRAIN WYE
- SLOPE INDICATOR
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- RIGHT OF WAY
- PROPERTY LINE
- NEW INDEX CONTOUR LINE
- NEW CONTOUR LINE
- PROPOSED DRAINAGE BASIN BORDER
- DRAINAGE FLOW DIRECTION ARROW



CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES

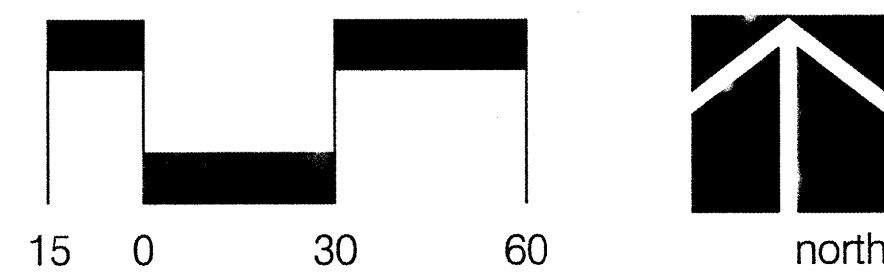
TITLE: HUNTER'S RUN PARK IMPROVEMENTS  
**GENERAL NOTES**



Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. 573591 Zone Map No. B-13-Z Sheet 2 Of 15





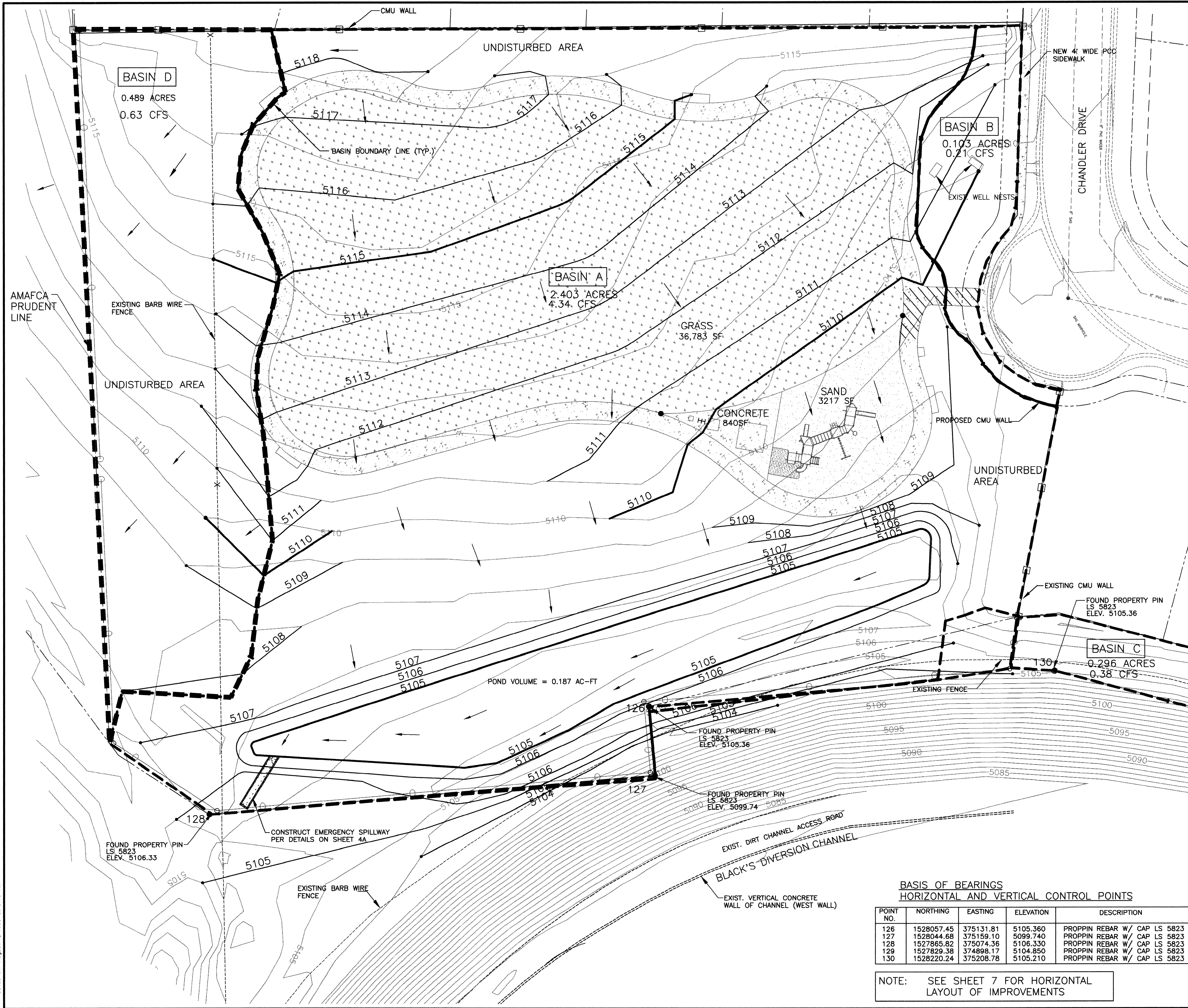
 **PLANNING**  
**CONSENSUS**  
**CONSENSUS PLANNING, INC.**  
*Planning / Landscape Architecture*  
 924 Park Avenue SW  
 Albuquerque, NM 87102  
 (505) 764-9801 Fax 842-5495  
 e-mail: [cp@consensusplanning.com](mailto:cp@consensusplanning.com)

Design Review Committee <b>APPROVE</b> SEP 16 1999 DESIGN REVIEW COMMITTEE	City Engineer Approval <b>APPROVE</b> SEP 16 1999 CITY ENGINEER	Last Design Update	No. / Day / Yr.	No. / Day / Yr.

[illegible]



Drawing name: Hunter.dwg  
Saved on: August 4, 1999 at 9:13 AM



BASIS OF BEARINGS  
HORIZONTAL AND VERTICAL CONTROL POINTS

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
126	1528057.45	375131.81	5105.360	PROPPIN REBAR W/ CAP LS 5823
127	1528044.68	375159.10	5099.740	PROPPIN REBAR W/ CAP LS 5823
128	1527865.92	375074.36	5106.330	PROPPIN REBAR W/ CAP LS 5823
129	1527829.38	374898.17	5104.850	PROPPIN REBAR W/ CAP LS 5823
130	1528220.24	375208.78	5105.210	PROPPIN REBAR W/ CAP LS 5823

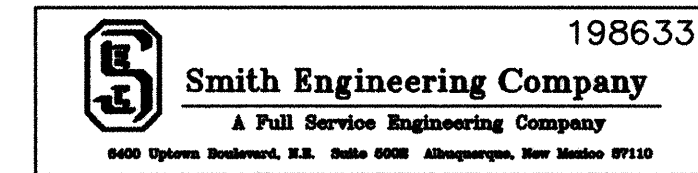
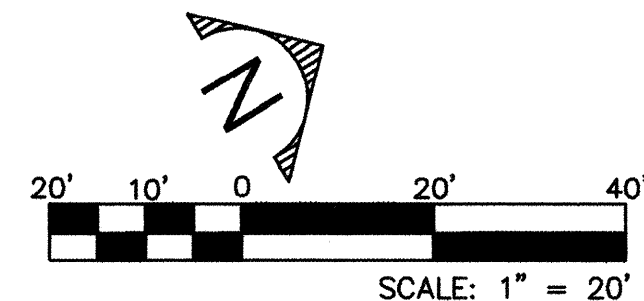
NOTE: SEE SHEET 7 FOR HORIZONTAL LAYOUT OF IMPROVEMENTS

KEYED NOTES:

LEGEND:

- EXISTING CHAIN LINK FENCE
- EXISTING WOOD FENCE
- EXISTING RAWD IRON FENCE
- EXISTING OVERHEAD ELECTRIC
- EXISTING SAS MANHOLE
- NEW STORM DRAIN MANHOLE
- EXISTING STORM DRAIN MANHOLE
- 6" CONCRETE SIDEWALK FOR COA MAINTENANCE ACCESS
- EXISTING CONCRETE SIDEWALKS AND CURB LINES
- NEW 4" CONCRETE SIDEWALKS AND CURB LINES
- HORIZONTAL AND VERTICAL CONTROL POINT
- NEW STORM DRAIN FLOW ARROW
- NEW SPOT ELEVATION
- NEW INDEX CONTOUR LINE
- NEW CONTOUR LINE
- EXISTING INDEX CONTOUR LINE
- EXISTING CONTOUR LINE
- EXISTING WATER VALVE
- CITY OF ALBUQUERQUE
- TOP OF CURB
- FLOWLINE
- TOP OF PIPE
- EXISTING SPOT ELEVATION
- INVERT ELEVATION
- EXISTING FIRE HYDRANT
- EXISTING FIBER-OPTIC MANHOLE
- EXISTING CATCH BASIN
- NEW CATCH BASIN

FOR INFORMATION ONLY



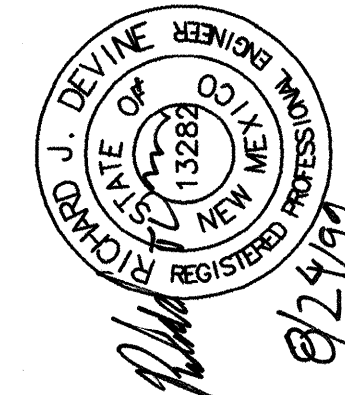
CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES

TITLE: HUNTER'S RUN PARK IMPROVEMENTS  
DRAINAGE PLAN & DRAINAGE BASIN DEFINITION

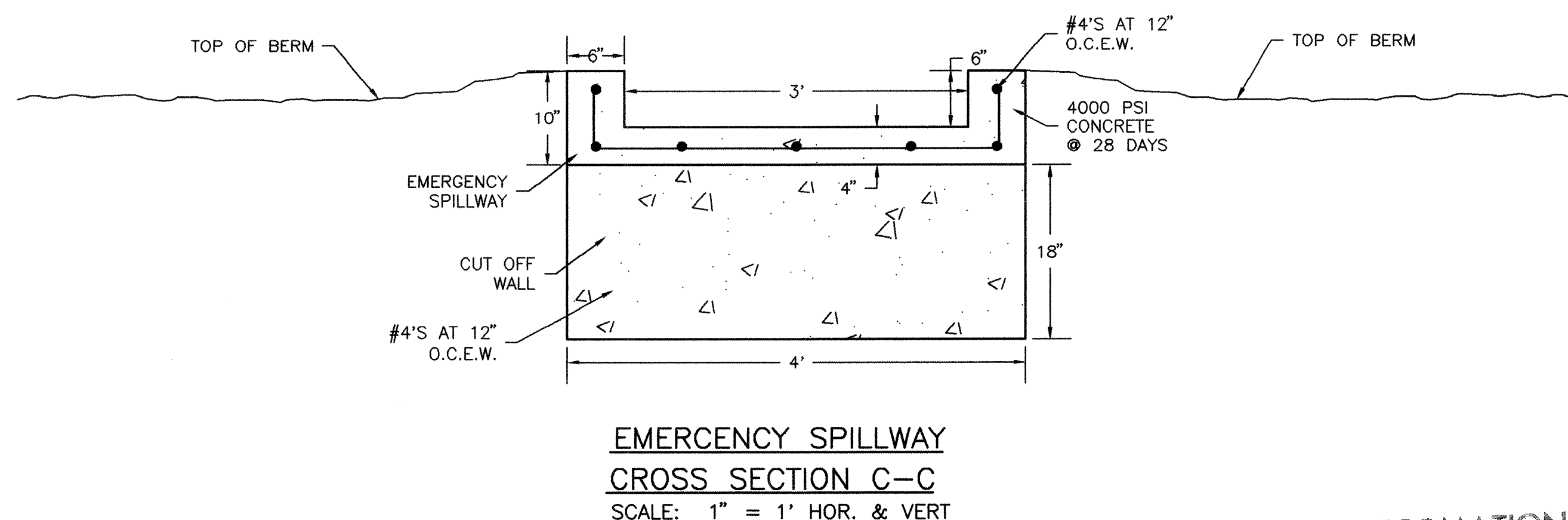
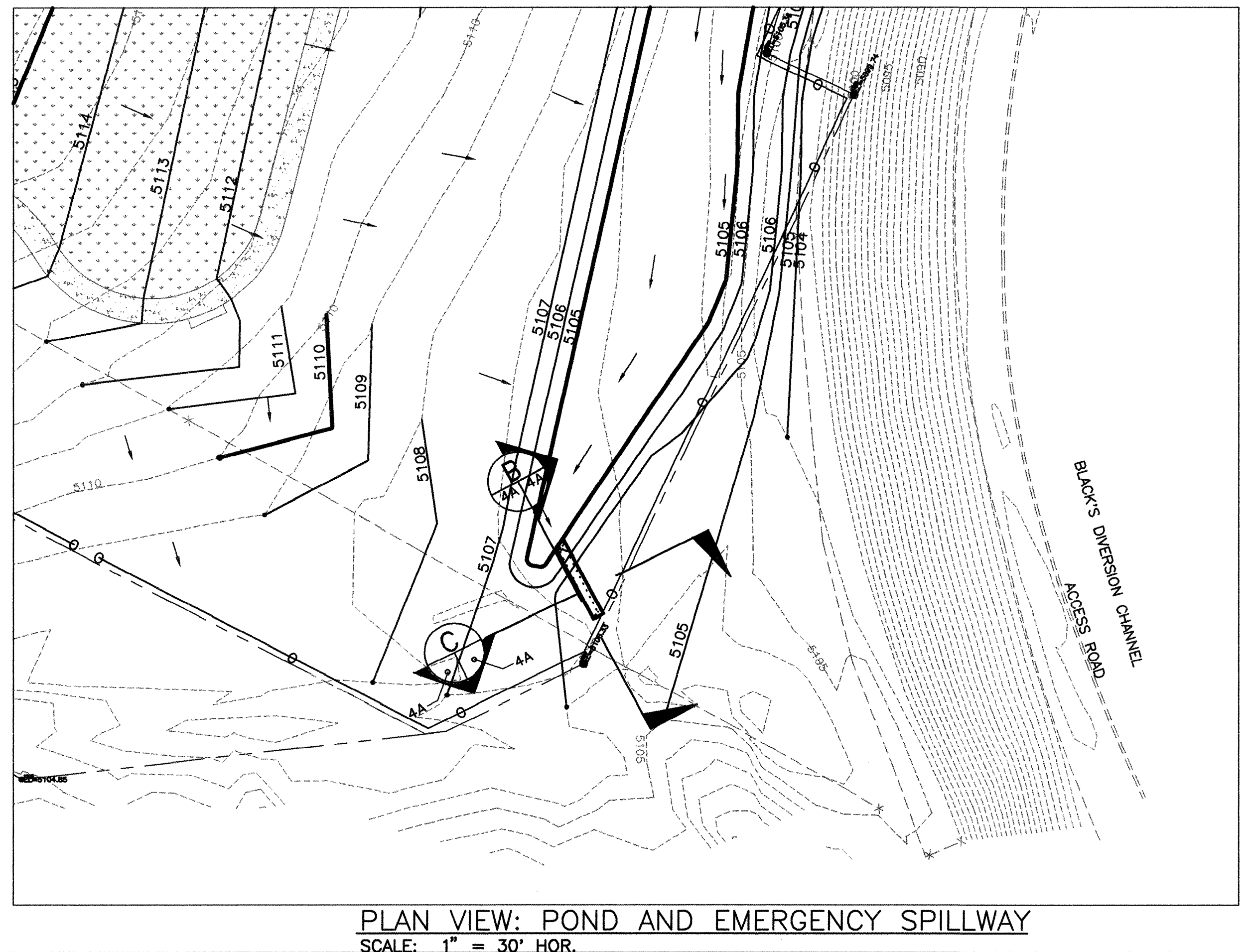
Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. 573591 Zone Map No. B-13-Z Sheet 4 of 15

AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	SWORN BY	DATE	TEMP BENCHMARKS	PROPERTY PINS	1/2 REBAR WITH CAP	DATE	FIELD NOTES	BY	NO.	DATE	REMARKS	BY	NO.	DATE
INSPECTOR'S	DATE	INSPECTOR'S	DATE	LS 5823	FOR LOCATIONS AND COORDINATES	FOR LOCATIONS AND COORDINATES	DATE					DESIGN			
VERIFICATION BY	DATE	VERIFICATION BY	DATE												
COORDINATED BY	DATE	COORDINATED BY	DATE												
MICRO-FILM INFORMATION	DATE	MICRO-FILM INFORMATION	DATE												
RECORDED BY	DATE	RECORDED BY	DATE												
NO.		NO.													







- ## NOTES:
1. MATERIALS:  
CONCRETE SHALL BE 4000 PSI  
REINFORCING ASTM A516 GRADE 60  
AND SHALL CONFORM TO THE CITY OF  
ALBUQUERQUE STANDARDS AND SPECIFICATIONS.
  2. CONTRACTOR SHALL CLEAN ALL  
CONSTRUCTION DEBRIS FROM AREA
  3. CONTRACTOR SHALL VERIFY INVERT  
ELEVATION SHOWN.
  4. WORK SHALL BE DONE BETWEEN THE MONTHS OF  
SEPTEMBER THRU JUNE 15.
  5. DISTURBED SUBGRADE SHALL BE RECOMPACTED TO  
95% MODIFIED PROCTOR DENSITY AS DETERMINED  
BY ASTM D1557.

SECTION B-B		10' HOR. 1' VERT.		NG	
			5107.00		
			5106.50		
			5106.00		
			5105.50		
			5105.00		
			5104.50		
			5104.00		
			5103.50		
			5103.00		
			5102.50		
			5102.00		
			5101.50		

2+00

2" TOP OF BERM

FOR INFORMATION ONLY

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION							
	<p>DESIGNED BY: RJD</p> <p>DRAWN BY: MDM</p> <p>CHECKED BY: RJD</p>	<p>REMARKS</p> <p>DESIGN</p>	<p>NO.</p> <p>DATE</p>	<p>BY</p>	<p>DATE</p>	<p>TEMP. BENCHMARKS: PROPERTY PINS 1/2 REBAR WITH CAP</p> <p>LS 5823 - SEE HORIZONTAL GEOMETRY PLAN SHEET 7</p> <p>FOR LOCATIONS AND COORDINATES</p>	<p>CONTRACTOR</p> <p>STARTED BY</p> <p>INSPECTOR'S</p> <p>DATE</p> <p>FIELD</p> <p>DATE</p> <p>VERIFICATION BY</p> <p>DATE</p> <p>CORRECTED BY</p> <p>DATE</p> <p>RECORDED BY</p> <p>NO.</p>						

<p><b>Smith Engineering Company</b> A Full Service Engineering Company 6400 Olympic Boulevard, N.E. Dallas 75206 Albuquerque, New Mexico 87110</p>		198633
<p><b>CITY OF ALBUQUERQUE</b> <b>CAPITAL IMPLEMENTATION PROGRAM</b> <b>LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES</b></p>		
<p><b>TITLE: HUNTER'S RUN PARK IMPROVEMENTS</b></p>		
<p><b>TYPICAL SECTION &amp; EMERGENCY SPILLWAY DETAILS</b></p>		
Design Review Committee	City Engineer Approval	<p>Mo. / Day / Yr.</p> <p>Mo. / Day / Yr.</p>
		<p>Mo. / Day / Yr.</p>
City Project No. <b>573591</b>	Zone Map No. <b>B-13-Z</b>	Sheet <b>4A</b> of <b>15</b>

Drawing name: CROSS SECTIONS.dwg.DWG  
Saved on: August 4, 1999 at 10:06 AM



Drawing name: HRDRNCALC.dwg.DWG  
Saved on: August 4, 1999 at 12:07 PM

## HUNTER'S RUN PARK DRAINAGE ANALYSIS

TC ASSUMED TO BE 0.12 HOURS

PROJECT NAME = HUNTER'S RUN PARK  
HYDROLOGIC CALCULATIONS  
(for small watersheds < 40 acres (per DPM Section 22))

PROJECT NO. 198633

Precipitation Zone = 1

Table A-8 (DPM) Peak Discharge (cfs/acre)													
FORMULA: Total Qp (cfs) = QpA * Aa + QpB * Ba + QpC * Ca + QpD * Da													
Note: "a" = area in acres													
EXISTING CONDITIONS													
Basin & Condition or Analysis Point	Return Period 8-hr.	QpA	A	QpB	B	QpC	C	QpD	D	Total Area (ac)	Total Qp (cfs)		
ENTIRE SITE	100	1.29	3.2900	100.0	2.03	0.0000	0.0	2.87	0.0000	0.0	4.37	0.0000	0.0
ENTIRE SITE	10	0.24	3.2900	100.0	0.76	0.0000	0.0	1.49	0.0000	0.0	2.89	0.0000	0.0
DEVELOPED CONDITIONS													
A	100	1.29	1.3230	55.1	2.03	0.8900	37.0	2.87	0.0000	0.0	4.37	0.1900	7.9
A	10	0.24	1.3230	55.1	0.76	0.8900	37.0	1.49	0.0000	0.0	2.89	0.1900	7.9
B	100	1.29	0.0000	0.0	2.03	0.1030	100.0	2.87	0.0000	0.0	4.37	0.0000	0.0
B	10	0.24	0.0000	0.0	0.76	0.1030	100.0	1.49	0.0000	0.0	2.89	0.0000	0.0
C	100	1.29	0.2960	100.0	2.03	0.0000	0.0	2.87	0.0000	0.0	4.37	0.0000	0.0
C	10	0.24	0.2960	100.0	0.76	0.0000	0.0	1.49	0.0000	0.0	2.89	0.0000	0.0
D	100	1.29	0.4890	100.0	2.03	0.0000	0.0	2.87	0.0000	0.0	4.37	0.0000	0.0
D	10	0.24	0.4890	100.0	0.76	0.0000	0.0	1.49	0.0000	0.0	2.89	0.0000	0.0
TOTAL 100 YEAR											3.29	5.57	
TOTAL 10 YEAR											3.29	1.81	

Table A-8 (DPM) Excess Precipitation - E - (in.)													
FORMULA: Weighted E (in.) = EaA * Aa + EaB * Ba + EaC * Ca + EaD * Da / (total area "a")													
Total Runoff Volume (ac-ft) = Weighted E (in.) * (total area "a") / (12 in./ft)													
Basin & Condition or Analysis Point	Return Period 8-hr.	EaA	A	EaB	B	EaC	C	EaD	D	Total Area (ac)	Weighted E (inches)	Runoff Volume (ac-ft)	
ENTIRE SITE	100	0.44	2.2700	69.0	0.67	0.8400	25.5	0.99	0.0000	0.0	1.97	0.1800	5.5
ENTIRE SITE	10	0.08	2.2700	69.0	0.22	0.8400	25.5	0.44	0.0000	0.0	1.24	0.1800	5.5
DEVELOPED CONDITIONS													
A	100	0.44	1.3230	55.1	0.67	0.8900	37.0	0.99	0.0000	0.0	1.97	0.1895	7.9
A	10	0.08	1.3230	55.1	0.22	0.8900	37.0	0.44	0.0000	0.0	1.24	0.1895	7.9
B	100	0.44	0.0000	0.0	0.67	0.1030	100.0	0.99	0.0000	0.0	1.97	0.0000	0.0
B	10	0.08	0.0000	0.0	0.22	0.1030	100.0	0.44	0.0000	0.0	1.24	0.0000	0.0
C	100	0.44	0.2960	100.0	0.67	0.0000	0.0	0.99	0.0000	0.0	1.97	0.0000	0.0
C	10	0.08	0.2960	100.0	0.22	0.0000	0.0	0.44	0.0000	0.0	1.24	0.0000	0.0
D	100	0.44	0.4890	100.0	0.67	0.0000	0.0	0.99	0.0000	0.0	1.97	0.0000	0.0
D	10	0.08	0.4890	100.0	0.22	0.0000	0.0	0.44	0.0000	0.0	1.24	0.0000	0.0
TOTALS											3.291	0.184	
BASIN A IS THE ONLY AREA THAT DRAINS TO THE BLACK DIVERSION CHANNEL AND NEEDS TO BE CONTAINED ON SITE VOLUME FOR 10 DAY STORM													
V 10 DAYS = V360 * Ad * (P10days - P360) / 12 in./ft = 0.153 ac-ft													
WHERE P10days = 3.67 AND P360 = 2.20													

## HUNTER'S RUN PARK DRAINAGE ANALYSIS

### HUNTER'S RUN PARK DRAINAGE ANALYSIS

Hunter's Run Park is located on a 3.29 acre parcel of undeveloped land located in the northwest section of Albuquerque at the confluence of the Black's Diversion Channel and the Calabacillas Arroyo. The Northwest corner of the park borders Chandler Drive, which intersects 7 Bar Loop Road one block to the North. Access to the park will be off of Chandler Drive. The soils at this site are classified as BCC (Bluepoint Series). This soil is a loamy fine sand found on slopes from 1% to 9%. The local climate in this area is considered semi-arid and is hot and dry with an average annual fall fall of 8 inches. The project is classified as zone x on the flood insurance rate firm map #35001c0108d.

The master drainage plan for the Hunter's Run Subdivision is titled "Drainage Report for Hunter's Run Subdivision". Tierra West Development Management Services. Revised November 1994 by Ron Bohannon, P.E. The following information is a summary of the drainage information for the park site as provided in that report:  
Basin 1a is designated park area and "The City would like the park left natural, so it could sheet flow to Black's Diversion Channel".  
Basin 1A Data and Q<sub>p</sub> 100 yr:  
Area = 0.005141 sq. mi. (3.29 acres), T<sub>p</sub> = 0.133 hours. Land treatment percentages (A=0%, B=93%, C=0%, D=7%). Q<sub>p100yr</sub> = 7.2 cfs, 100 year volume = 0.208 ac-ft.

#### HYDROLOGIC ANALYSIS

The City of Albuquerque's Development Process Manual (DPM) Section 22.2 was used to compute the 100-yr 6-hr peak discharge and runoff volumes for the site. The 100 year, 10 day storm volume was also computed. Precipitation is in zone 1. Tables A-8 and A-9 were used for these calculations. The park was viewed as one basin based on developed runoff patterns. The existing condition flows were computed for comparison purposes only. There are no off-site flows entering the site for either existing or developed conditions.

#### A. Existing Conditions - onsite

There is no off-site drainage entering the park site. The existing site is undeveloped and is vegetated with native grasses and sage brush. The southern edge of the park site drains to the Calabacillas Arroyo - refer to Basin D. The northern edge of the park drains to Chandler Drive - refer to Basin B. The rest of the park area flows to the Black's Diversion Channel. There is an existing shallow swale approximately 1 foot high that intercepts drainage on the western side of the park before the flows reach the steep slopes down to the Black's Diversion Channel. There is virtually no existing erosion on the site. The average slope is around 3% to 4%. There are no drainage facilities on the site. Due to the relatively small area, the existing conditions were calculated using the entire area of the park. An estimated 4.2 cubic feet per second was calculated for the existing 100 year event. Land treatment type "A" was used for the calculations.

The Black's Diversion Channel, at this location, is constructed of vertical concrete walls with a flat concrete bottom. The walls adjacent to the park are approximately 4 feet higher than the service road which runs along the west side of the channel. There are 6" diameter holes through the wall at 50 feet on center (+/-) to drain the adjacent AMAFCA right of way.

#### B. Developed Conditions

The developed park will have paved impermeable areas including concrete sidewalks and bench sites. There will also be a drip irrigated landscaped areas for native shrubs and trees, irrigated grass areas and a sand area for children's playground. The park site was subdivided into four basins based on existing drainage patterns. The following is a summary of the site:

Basin A consists of 2.403 acres. 55% of the site (1.323 ac) is either undisturbed or slightly modified (graded only) soil, or sand; land treatment A was used. 37.0% of the site (0.89 ac) is irrigated grass, land treatment B was used. 7.9% of the site (0.19 ac) is concrete sidewalk and bench pads; land treatment D was used. The sidewalks will have a 2% cross slope directed toward the turf area on the north, south, and west side and toward the landscaped drainage collection area on the south side of the site. No flows are anticipated to be discharged from the site.

Basin B consists of 0.103 acres which drains to Chandler Drive. Land treatment type B was used to compute 0.21 cfs.

Basin C is the area of the park that was determined to be undevelopable. It is the narrow strip of property that runs along the Blacks Diversion channel on the east and the back yards of homes on the west. Land treatment type A was used to compute 0.38 cfs.

Basin D consists of 0.489 acres which drains to the Calabacillas Arroyo. Land treatment A was used to compute 0.63 cfs.


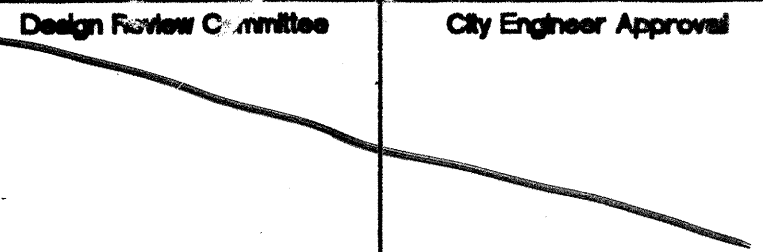
After discussions with the City of Albuquerque hydrology staff, it was decided that due to the very small 100 year, 10 day storm volume, compounded with the tremendous expense of removing and replacing about 45 linear feet by 12 feet high portion of Black's Diversion Channel wall to accommodate an 18" drainage pipe, the most viable solution is to discharge the 100 year, 10 day storm volume from Basin A into a landscaped area incorporated within the park area. Refer to sheet 4A for details. In the unlikely event that a storm volume exceeds the capacity of the discharge area, an emergency spillway will direct the excess discharge toward the Calabacillas Arroyo.

The total park discharge ending up at the pond will be 4.34 cfs. The total 100 year, 10 day volume entering the pond will be 0.153 ac-ft (6665 cubic feet) based on the 10 day storm. The designed volume of the landscaped area is to be 0.293 ac-ft (12,750 cubic feet).

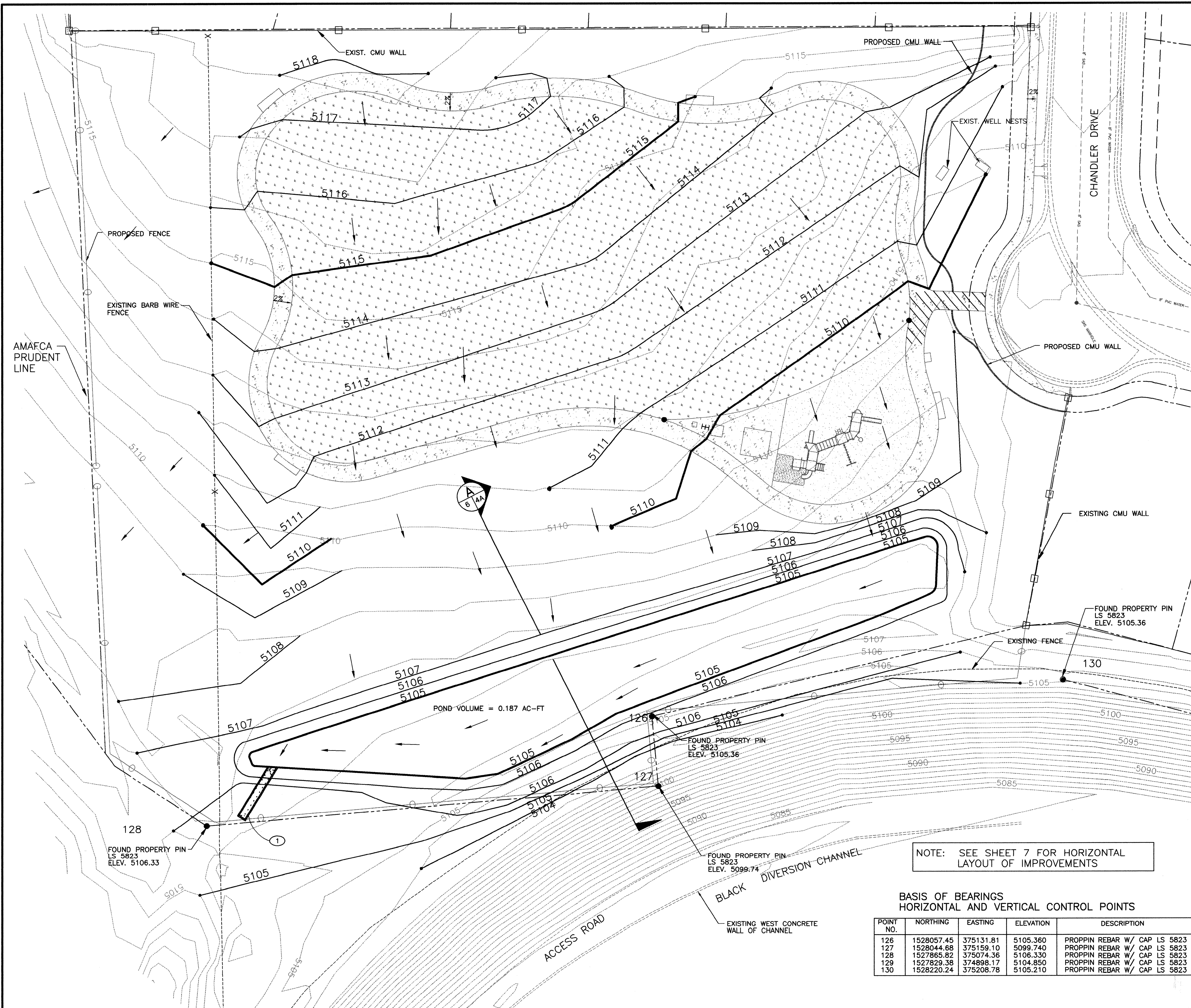
#### Summary

The allowable 100 year discharge from the park site as stated in the master drainage study is 7.2 cfs. The proposed calculated discharge for the entire site is 5.57 cfs which is less than the allowable. The storage capacity of the landscaped drainage collection area exceeds the mandatory 10 day volume by 48% +/-.

FOR INFORMATION ONLY

		198633	
Smith Engineering Company			
A Full Service Engineering Company			
4400 University Boulevard, N.E. Suite 1000 Albuquerque, N.M. 87112			
CITY OF ALBUQUERQUE			
CAPITAL IMPROVEMENT PROGRAM			
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES			
TITLE: HUNTER'S RUN PARK IMPROVEMENTS			
DRAINAGE CALCULATIONS AND ANALYSIS			
Design Review Committee	City Engineer Approval	DATE	NO.
		DATE	NO.
		DATE	NO.
		DATE	NO.
		DATE	NO.
City Project No.	Zone Map No.	Sheet	Of
573591	B-13-Z	5	15





○ KEYED NOTES:

- 1 BUILD PCC EMERGENCY SPILLWAY SEE DETAILS  
ON SHEET 4A

**LEGEND:**

4" CONCRETE SIDEWALK

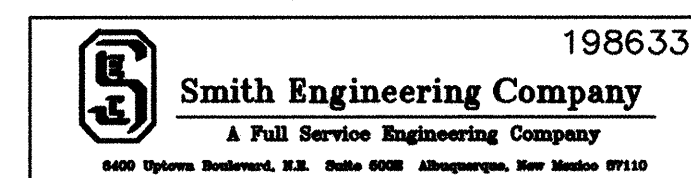


## ESTIMATED EARTHWORK

PRISMOIDAL METHOD	
ORIGINAL SURFACE	exist
FINAL SURFACE	REVISED
CUT COMPACTION FACTOR	0.00 %
FILL COMPACTION FACTOR	25.00 % SWELL
RAW CUT VOLUME	860 CY
CMP FILL VOLUME	763 CY

EARTHWORK VOLUMES ARE FOR CONTRACTOR'S  
INFORMATION ONLY. ACTUAL VOLUMES MAY BE  
PLUS OR MINUS QUANTITIES

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES

TITLE: HUNTER'S RUN PARK IMPROVEMENTS  
**GRADING AND DRAINAGE PLAN**

Design Review Committee

City Engineer Approval

**Fast Design Update**

Mo. / Day / Yr.	Mo. / Day / Yr.

City Project No. 573591

Zone Map No.  
**B-13-Z**

Sheet 6 of 15



DESIGN POINT TABLE

POINT NO.	NORTHING	EASTING	ELEV. 5100 +	DESCRIPTION
4	1528218.72	375091.39	8.35	PCC
5	1528229.51	375075.12	8.35	PC
8	1528232.27	375063.86	9.07	PC
9	1528242.32	375044.67	9.54	PRC
12	1528255.97	375016.53	10.49	PRC
15	1528268.07	374992.84	11.77	PRC
18	1528245.75	374929.53	13.82	PRC
21	1528187.04	374897.10	15.82	PRC
24	1528133.46	374863.07	17.18	PRC
27	1528100.14	374840.76	17.73	PRC
30	1528039.64	374824.73	17.60	PCC
33	1528019.79	374859.28	15.80	PRC
36	1527996.66	374905.37	14.18	PRC
39	1528006.34	374976.84	11.66	PT
42	1528074.82	374994.76	11.52	PC
43	1528142.36	375055.50	10.15	PT
46	1528148.16	375070.82	9.44	PC
49	1528249.97	375033.70	9.77	PI
50	1528274.33	375049.21	9.04	PI
51	1528251.44	375041.68	9.49	PC
53	1528254.85	375041.54	9.45	PT
55	1528037.35	375033.65	9.73	PC
56	1528256.25	375029.84	9.92	PT
58	1528127.76	375023.05	11.00	EDGE
59	1528241.62	375039.24	9.72	EDGE
60	1528152.95	375071.94	9.31	EDGE
61	1528178.50	375041.54	10.25	EDGE
62	1528165.19	375051.16	10.11	CORNER
63	1528157.47	375060.34	9.91	CORNER
64	1528156.00	375043.44	10.54	CORNER
65	1528148.28	375052.62	10.34	CORNER
70	1528139.21	375031.26	10.71	CORNER
71	1528137.92	375032.79	10.70	CORNER
72	1528137.68	375029.97	10.71	CORNER
73	1528136.39	375031.50	10.70	CORNER
74	1527905.21	375067.68	5.00	SPILLWAY
75	1527902.39	375065.79	5.00	SPILLWAY
76	1527881.38	375080.48	5.74	SPILLWAY
77	1527879.96	375077.83	5.74	SPILLWAY

DESIGN POINT TABLE  
CENTERS OF PLANTERS

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
66	1528148.47	375038.41	5110.51	CORNER
67	1528145.25	375042.24	5110.45	CORNER
68	1528144.64	375035.20	5110.60	CORNER
69	1528141.42	375039.02	5110.53	CORNER

DESIGN POINT TABLE  
FOR PERIMETER FENCE

POINT NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
100	1527991.38	374746.91	NA	PI FENCE
105	1527845.49	375025.65	NA	PI FENCE
147	1527869.71	375074.64	NA	PI FENCE
148	1528043.45	375156.88	NA	PI FENCE
149	1528056.67	375128.64	NA	PI FENCE
150	1528203.36	375197.97	NA	PI FENCE
151	1528218.14	375179.98	NA	PI FENCE

DESIGN LINE TABLE

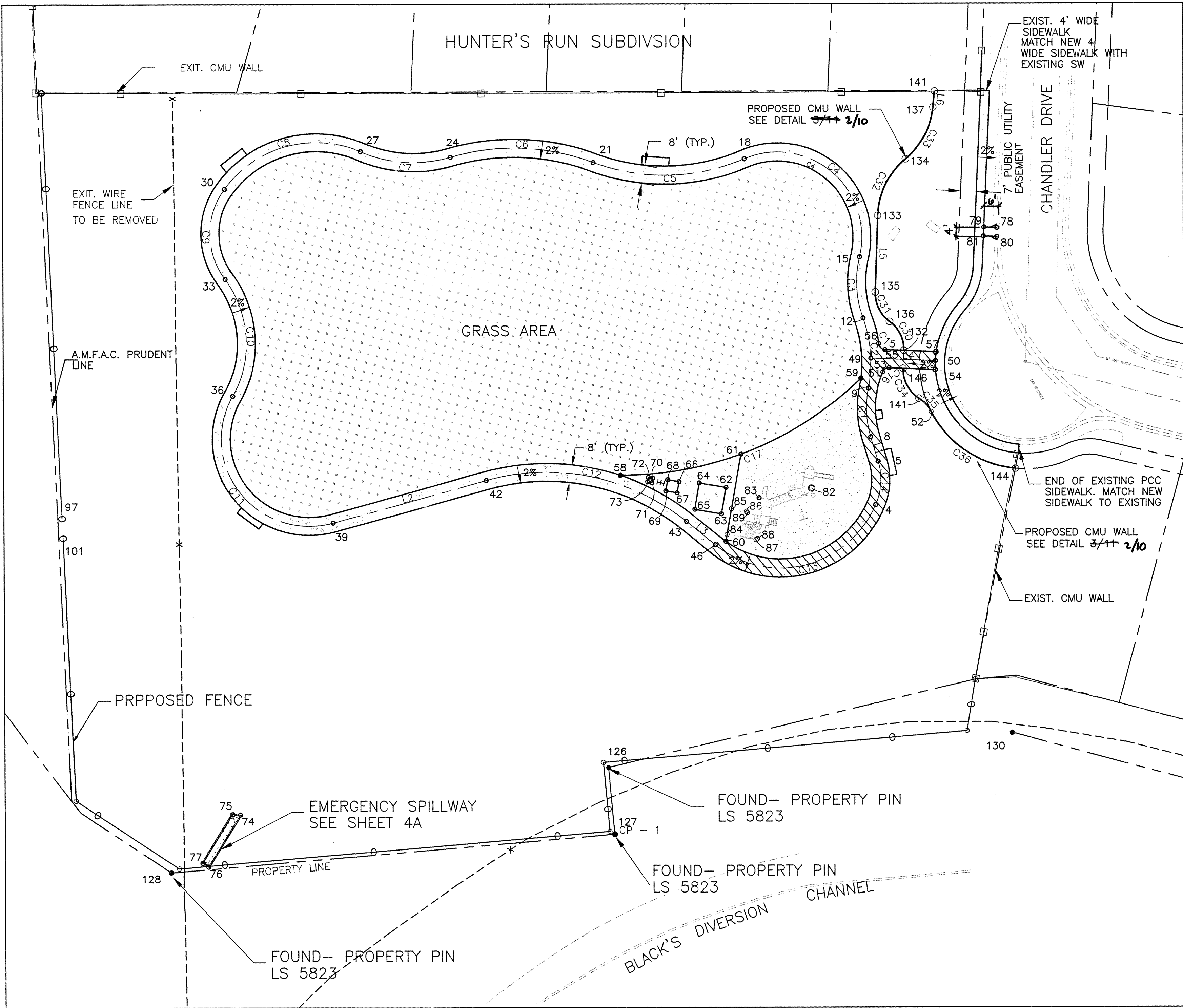
NUMBER	DIRECTION	DISTANCE
L1	N 76°14'52" W	11.53'
L2	N 14°39'27" E	70.79'
L3	N 69°16'35" E	16.38'
L4	S 32°29'13" W	28.87'

DESIGN POINT TABLE  
FOR WHEELCHAIR RAMP

POINT NO.	NORTHING	EASTING	ELEV.	DESCRIPTION
78	1528327.35	375012.49	5109.39	HC RAMP
79	1528322.49	375009.36	5109.88	HC RAMP
80	1528325.37	375015.97	5109.45	HC RAMP
81	1528320.33	375012.73	5109.94	HC RAMP

DESIGN POINT TABLE  
ADA EQUIPMENT AND SURFACE EDGES

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
82	1528197.92	375070.62	NA	POST
83	1528175.61	375062.58	NA	POST
84	1528154.90	375069.62	NA	ADA EDGE
85	1528162.50	375060.57	NA	ADA EDGE
86	1528167.63	375064.94	NA	ADA EDGE
87	1528165.00	375078.06	NA	ADA EDGE
88	1528165.70	375078.00	NA	ADA EDGE
89	1528167.69	375065.64	NA	ADA EDGE

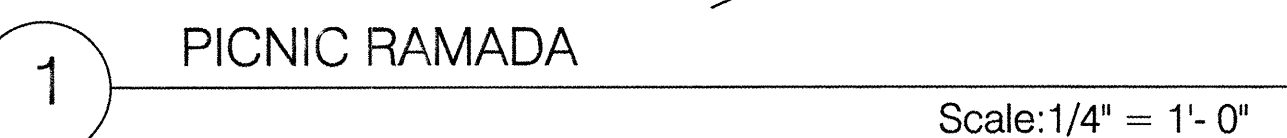




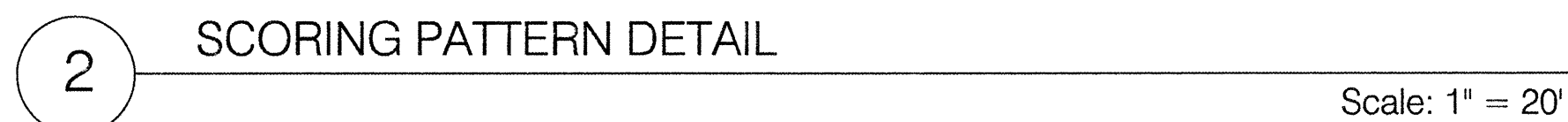
E ROGRAM UCTION SERVICES										MOVEMENTS AREA LAYOUT									
Last design update										No. / Day / Yr.									



- 1 Concrete sidewalk, see detail 4/9.
- 2 4", 4,000 psi. concrete slab on compacted subgrade.
- 3 Picnic Ramada, see Site Amenities Legend, sheet 10.
- 4 Install per manufacturer's recommendations.
- 5 Approximate roof line.
- 6 Approximate column location.
- 7 Picnic table, see Site Amenities Legend, sheet 10 and detail 2/8.
- 8 'Accessible' end of table.
- 9 Control joint - typ., see detail 5/9.



- 1 Typical control joint, 5' - 0" O.C. (typ.). See detail 5/9.
- 2 Typical expansion joint, 20' - 0" O.C. See detail 5/9.
- 3 Play area.
- 4 Tree Planter. See detail 3/9.

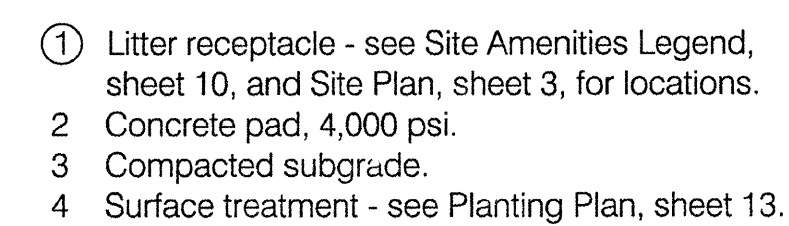


- ① 1/2" radius - typ.
- 2 1/2" X 1" tooled joint.
- 3 1/2" felt expansion joint material w/ polyurethane sealant.

- ① 4,000 psi concrete, medium broom finish perpendicular to traffic flow and 4" trowelled edge. Control joints @ 5'-0", Expansion joints @ 20'-0" - see detail 5/10. Concrete shall be 4" or 6" depth per Site Plan, sheet 3.
- 2 Compacted subgrade.
- 3 Surface treatment - see Planting Plan, sheet 13



5 CONCRETE JOINTS Scale: 1" = 1'-0"

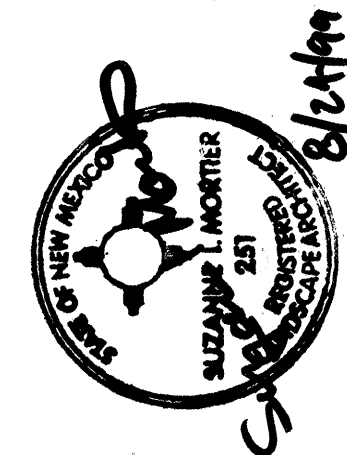


6 LITTER RECEPTACLE

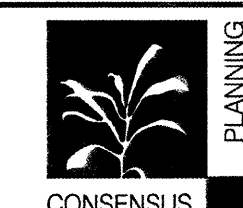


- 1 Tree center - see Planting Plan, sheet 13.
- 2 4" depth, cobbles, 2" - 4" dia.
- 3 Concrete slab - see Site Plan, sheet 3.
- 4 Expansion joint - typ. See detail 5/9.
- 5 Control joint - typ. See detail 5/9.
- 6 4" depth, 4,000 psi concrete, medium broom finish on 95% compacted subgrade.

3 TREE PLANTER DETAIL

[illegible]

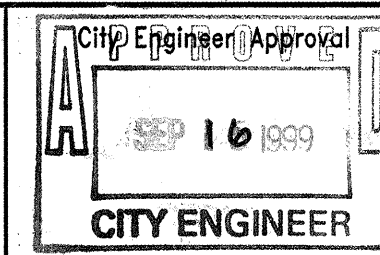
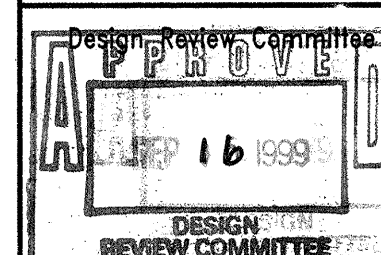
FOR INFORMATION ONLY



**PLANNING**  
**CONSENSUS PLANNING, INC.**  
*Planning / Landscape Architecture*  
924 Park Avenue SW  
Albuquerque, NM 87102  
(505) 764-9801 Fax 842-5495  
e-mail: [cp@consensusplanning.com](mailto:cp@consensusplanning.com)

CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM  
LANDSCAPE ARCHITECTURE & CONSTRUCTION SERVICES

TITLE: HUNTER'S RUN PARK IMPROVEMENTS  
SITE DETAILS - MISCELLANEOUS



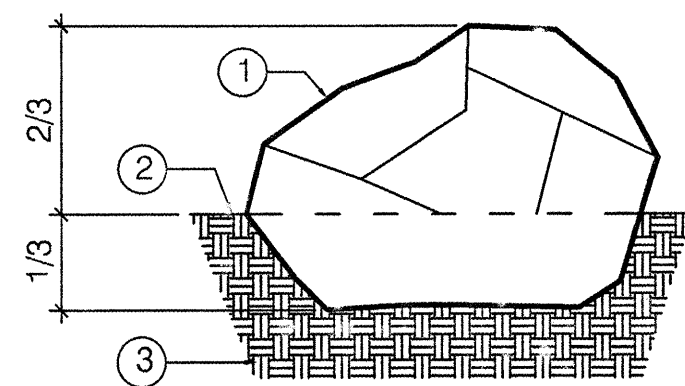
City Project No.

573591

Zone Map No.  
B-13

Sheet 9 of 15





CONSTRUCTION NOTES

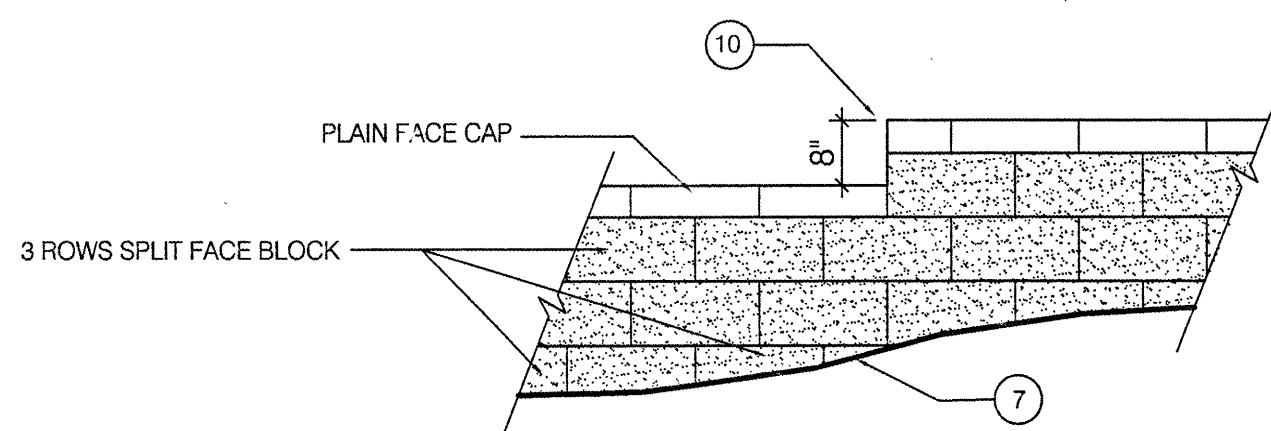
- ① Landscape boulder, 3' min. dimension in each direction.  
2 Surface treatment, see Planting Plan, sheet 13.  
3 Compacted subgrade to 95%.

Note: Boulders to be moss rock or as approved by Owner's Representative.

1

LANDSCAPE BOULDER

Scale: 1/2" = 1'-0"

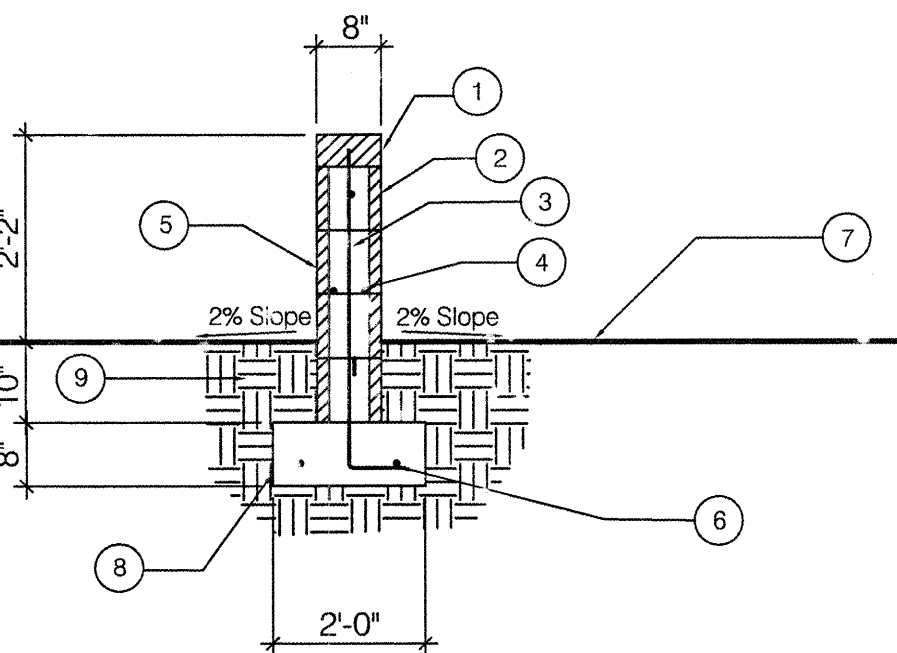


ELEVATION

CONSTRUCTION NOTES:

- ① 4" x 8" x 16" cap.  
2 Bond beam w/1 #4 rebar cont. - grout solid.  
3 #4 rebar @ 48" O.C. - grout solid.  
4 Truss-type joint reinforcing @ 16" O.C. vertically.  
5 CMU - 8" x 8" x 16" - typ.  
6 2 - #4 rebar cont.  
7 Finish grade.  
8 Concrete footing, 4,000 psi.  
9 Compacted subgrade to 95%.  
10 Step wall in 3" increments as needed to follow grade. Minimum wall height shall be 2'-0" from finish grade. See Horizontal Geometry Plan, sheet 7 for top of wall elevations.

Note: CMU's shall be 8" x 8" x 16" split-face blocks with 4" x 8" x 16" plain-face cap. All blocks shall be Crego Block Company - Color #7627 or approved equal. Mortar shall be colored to match and have an integral water-repellent agent. Apply clear, non-yellowing water-repellent sealer to entire wall assembly. Match existing wall height at north side. Step down as needed at least 32" before end of wall.



SECTION

2

MASONRY WALL

Scale: 1/2" = 1'-0"

Site Amenities Legend

QUANTITY	MANUFACTURER	MODEL #	DESCRIPTION
4	Webcoat	B6WBRCS	8' Bench, with back, inground mounted. Color: Clay
1	Webcoat	T8STDHCPS	8' Picnic Table, inground mounted. Color: Clay.
1	Poligon	SQ12-2 HM	12' Metal Shade Structure w/ pitched roof. Roof Color: Evergreen. Frame Color: Light Stone.
1	Garnetime	7703	Loop bicycle rack. Color: Black.
2	Materials, Inc.	TR3329-111 Rinconada III	Litter receptacle with dark gray integral color #8084/ Davis Colors.

Manufacturer Representatives

Materials, Inc.  
1-800-867-9035

Leisure Design Systems, Inc.  
1-800-543-2232

Poligon  
Webcoat  
Garnetime

FOR INFORMATION ONLY

FOR INFORMATION ONLY



CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM LANDSCAPE ARCHITECTURE & CONSTRUCTION SERVICES	
TITLE: HUNTER'S RUN PARK IMPROVEMENTS SITE DETAILS - MISCELLANEOUS	
DESIGN REVIEW COMMITTEE SEP 16 1999	CITY ENGINEER SEP 16 1999
City Project No. 573591	Zone Map No. B-13
Sheet 10 of 15	









- 1 PEDESTAL CONTROLLER SCALE: 1/2" = 1' - 0"



CONSTRUCTION NOTES:

- SCALE: 1/2" = 1' - 0"

Valve #	Head Type	Nozzle	Valve Size	GPM
C1	xeri-bird	XB-10/20	1"	14
C2	I-20	#2, #4	1.5"	37
C3	I-20	#2, #4	1.5"	36
C4	I-20	#2, #4	1.5"	37
C5	Master Valve	N/A	1.5"	-



- 1    INSTALL 260 LF OF 1.5 " RIGID  
     ELECTRICAL CONDUIT.    INSTALL  
     3 - #4 AWG CABLE
- 2    INSTALL NEW ELECTRICAL METER  
     PEDESTAL PER PNM STANDARDS.  
     SEE PNM DISTRIBUTION STANDARD  
     DS-19-84.0 FOR DETAILS
- 3    INSTALL NEW 1-1/2" REC INTO  
     SECONDARY POWER PEDESTAL. CONTRACTOR  
     SHALL COORDINATE THIS WORK WITH THE  
     PUBLIC SERVICE COMPANY.

Note:  
There will be no pavement or concrete driveway cuts for conduit installation. Contractor shall bore/push conduit under all driveways and street crossings. This work shall be considered incidental to construction and no additional payment shall be made.

Program	Valves	PR Calc.	Run Time	Cycles	Total GPM	Remarks
1	C1	-	120 min.	1	14	drip valves
2	C2	.28	107 min.	1	37	
3	C3	.28	107 min.	1	36	
4	C4	.28	107 min.	1	37	

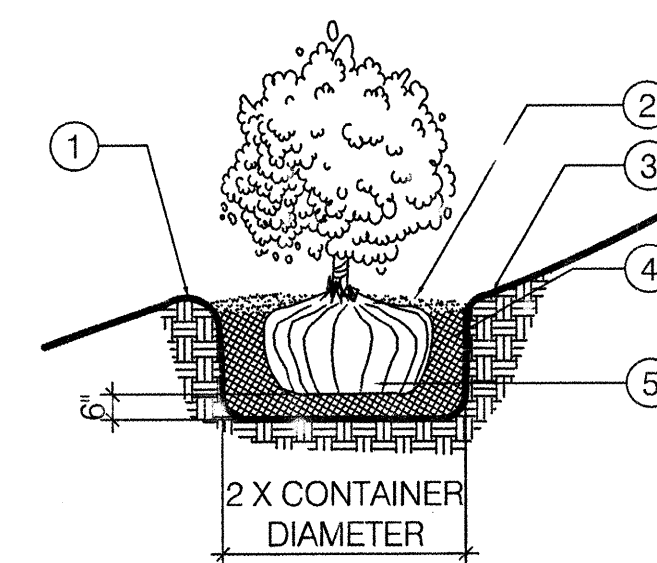
ENGINEERS SEAL

STATE OF NEW MEXICO  
SUSANNE A. MORTER  
251  
LICENSED PROFESSIONAL ENGINEER

FOR INFORMATION ONLY

	PLANNING				NO.	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
	CONSENSUS PLANNING, INC.								
	Planning / Landscape Architecture								
	924 Park Avenue SW								
	Albuquerque, NM 87102								
	(505) 764-9801 Fax 842-5495								
e-mail: cp@consensusplanning.com									
CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM LANDSCAPE ARCHITECTURE & CONSTRUCTION SERVICES									
TITLE: HUNTER'S RUN PARK IMPROVEMENTS									
IRRIGATION NOTES/DETAILS									
Design Review Committee		City Engineer Approval		Last Design Update		Mo. / Day / Yr.		Mo. / Day / Yr.	
APPROVED  DESIGN REVIEW COMMITTEE		APPROVED  CITY ENGINEER							
City Project No.		573591		Zone Map No. R-13		Sheet 12 of 15			

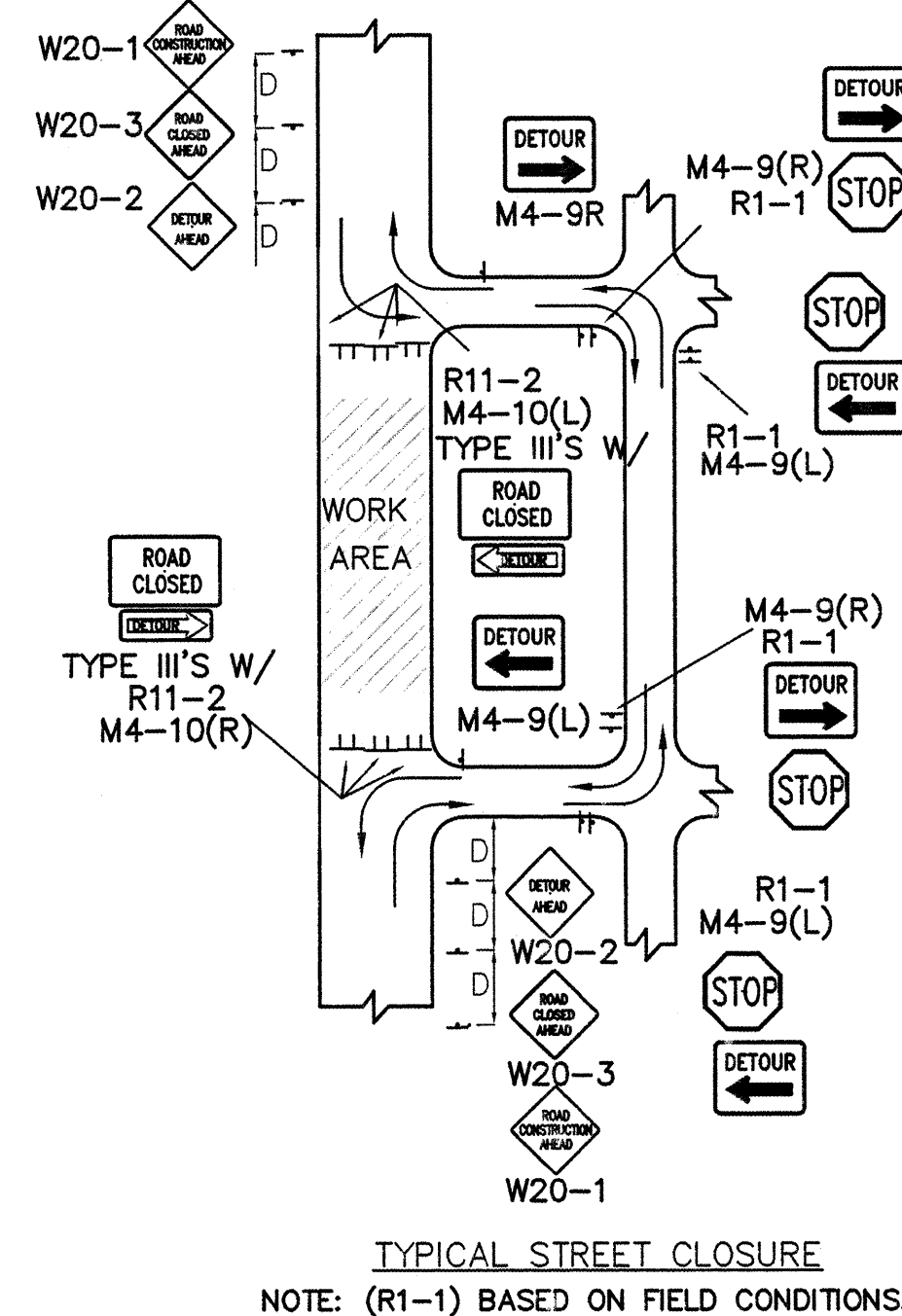
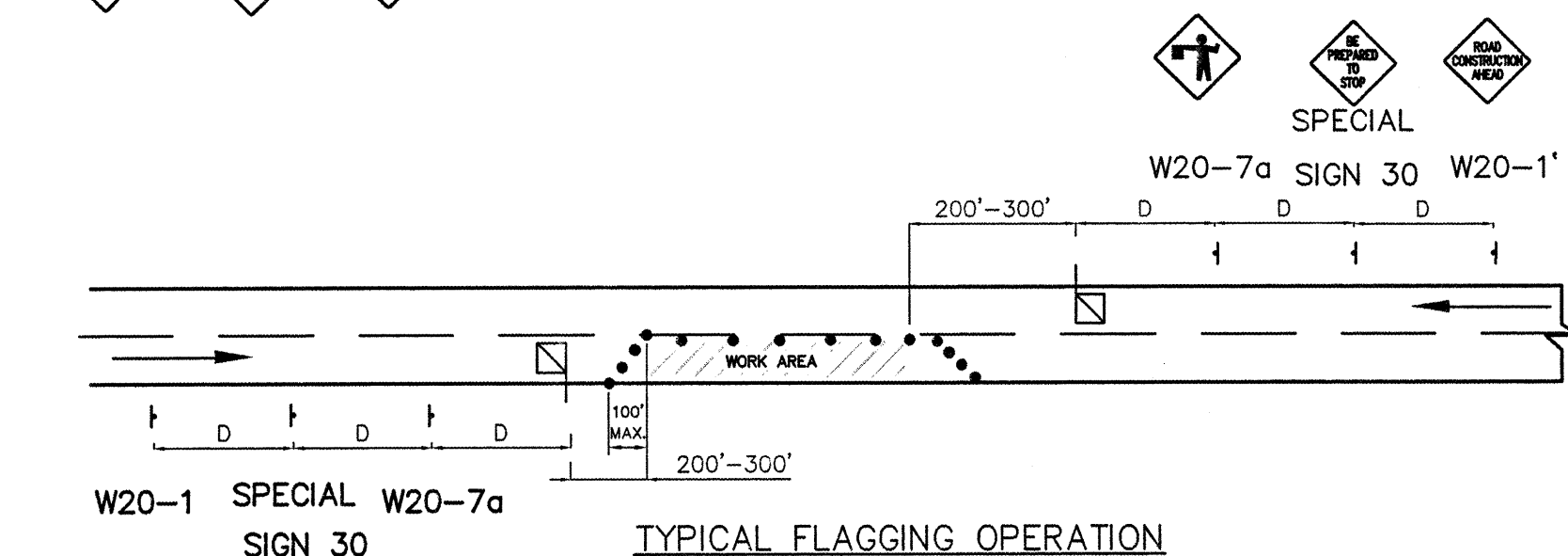
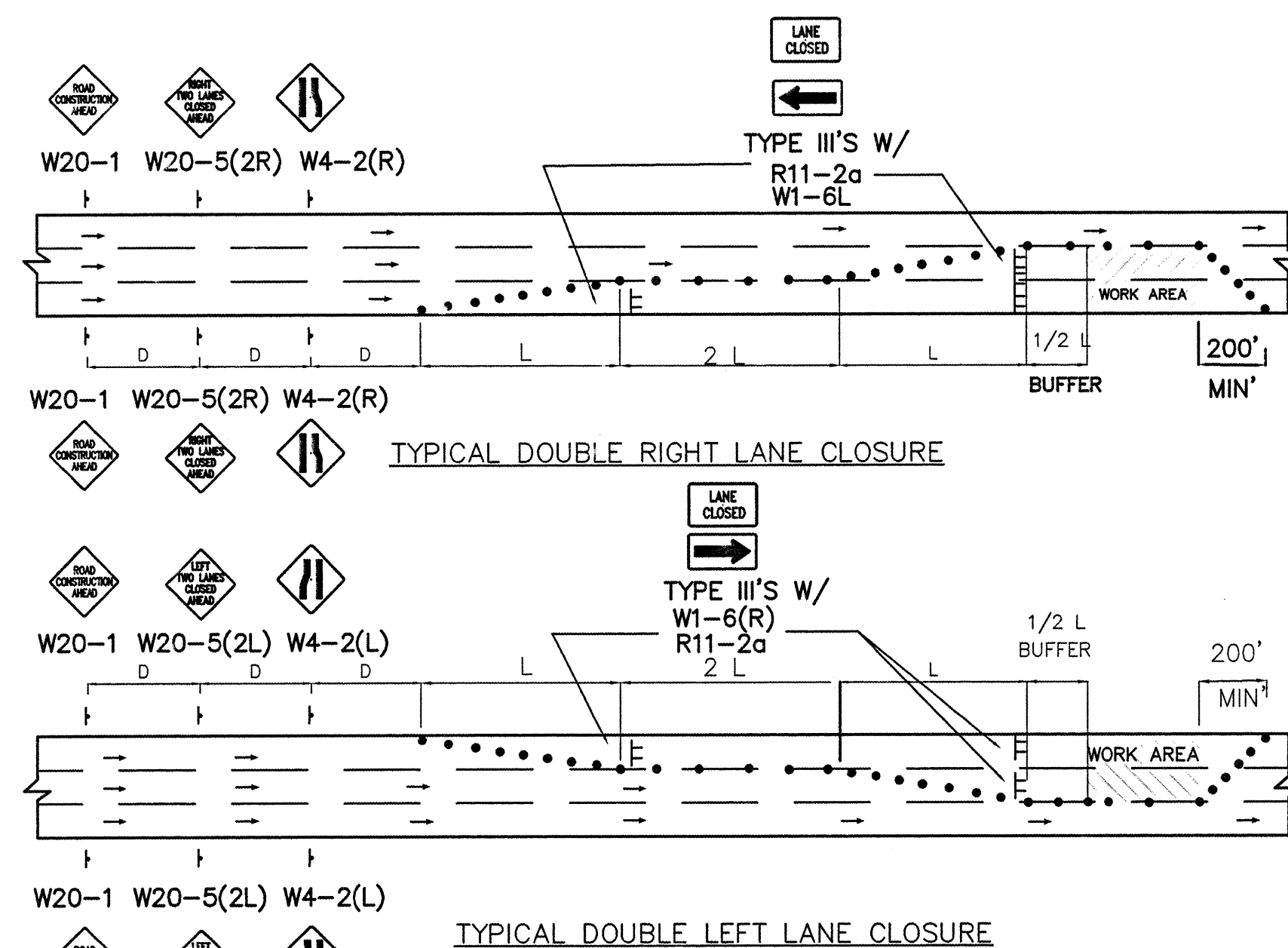
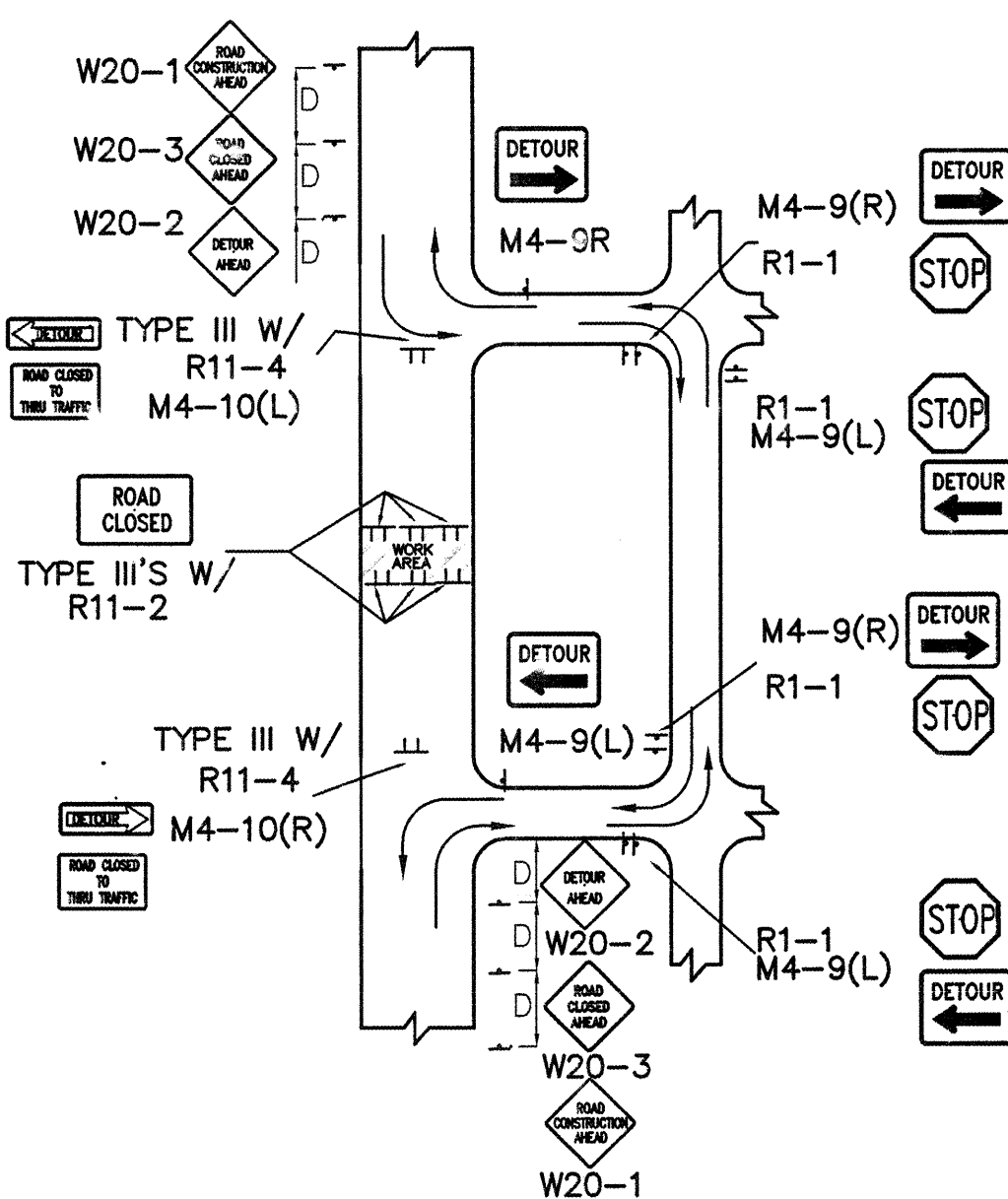
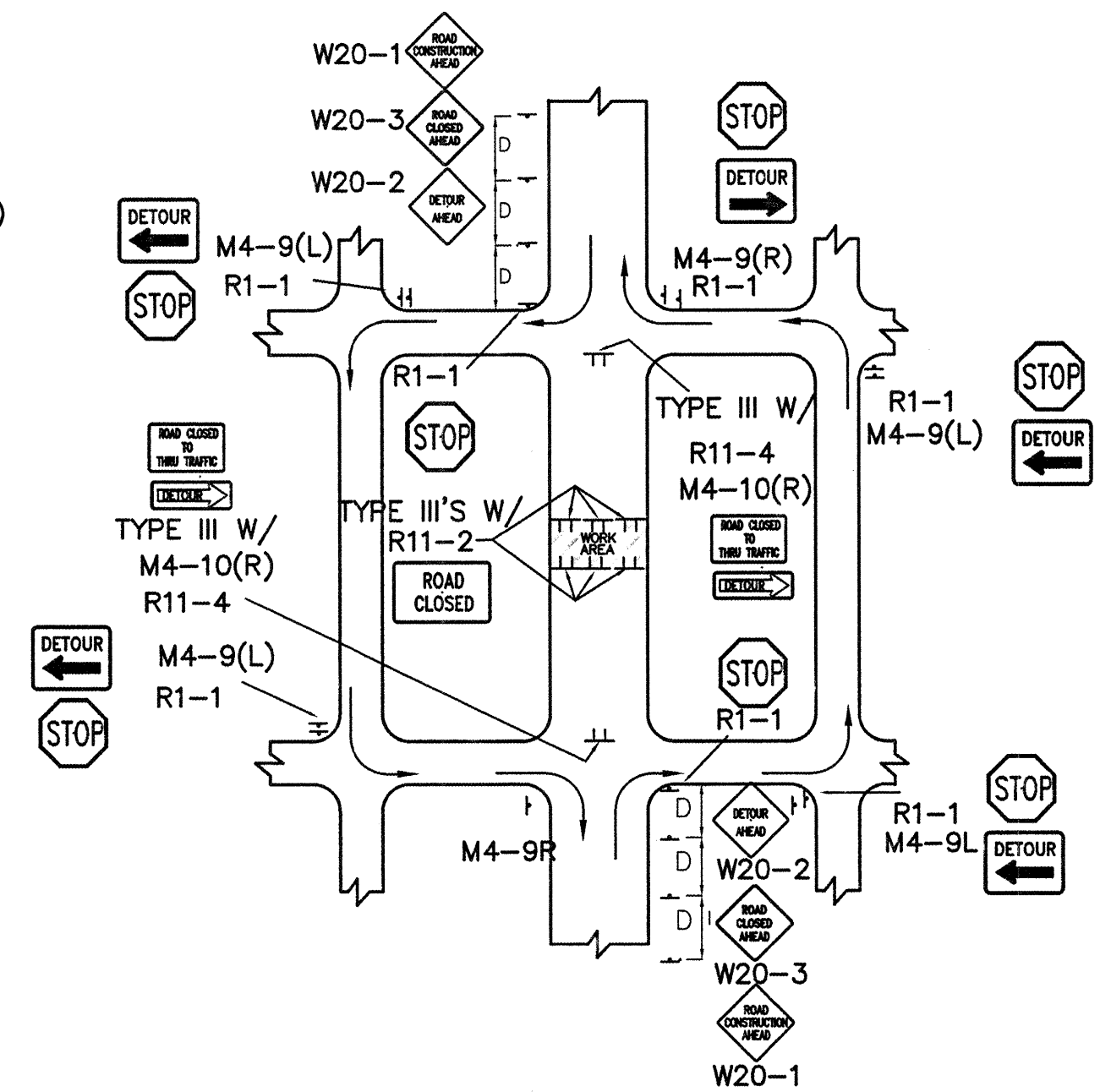
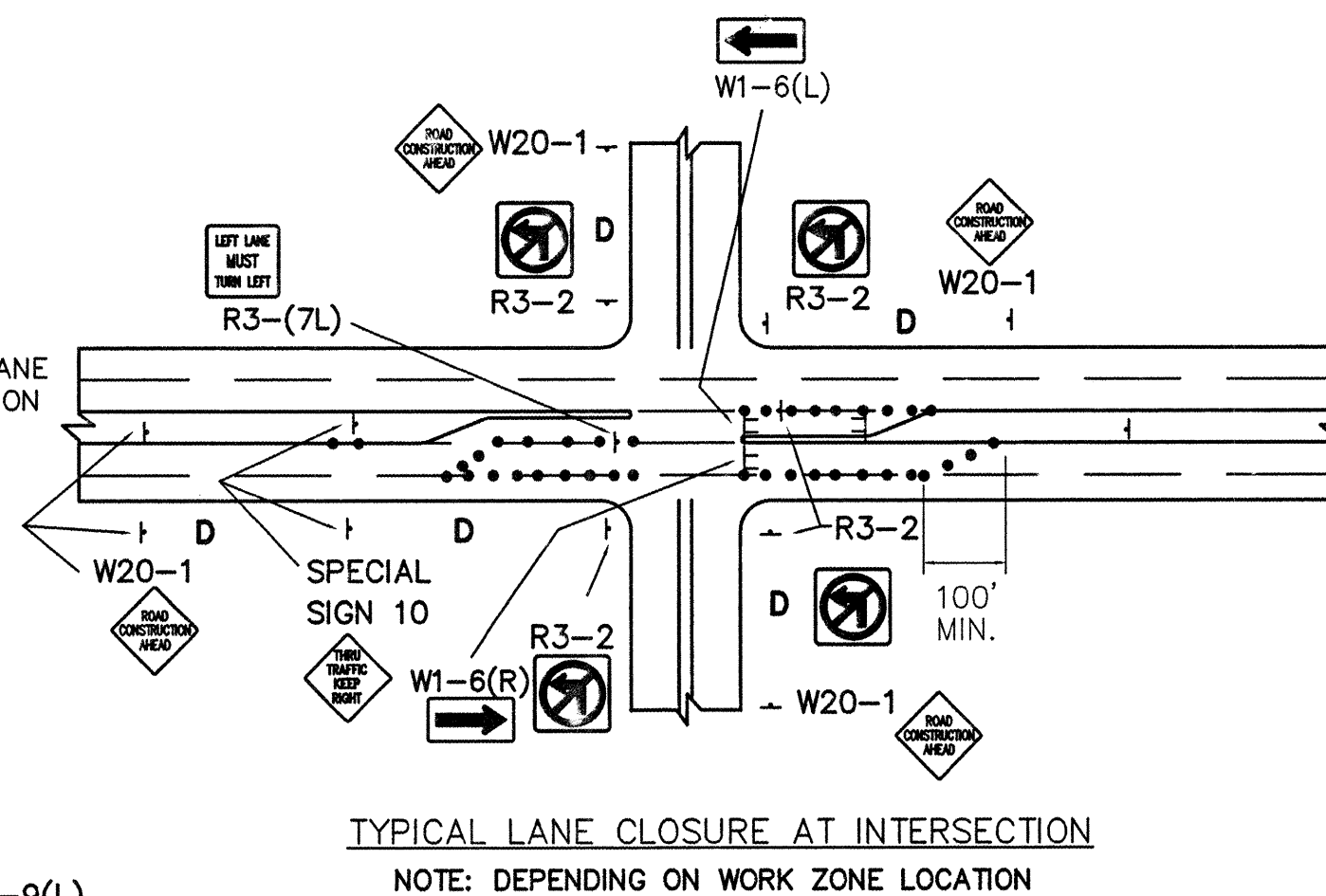
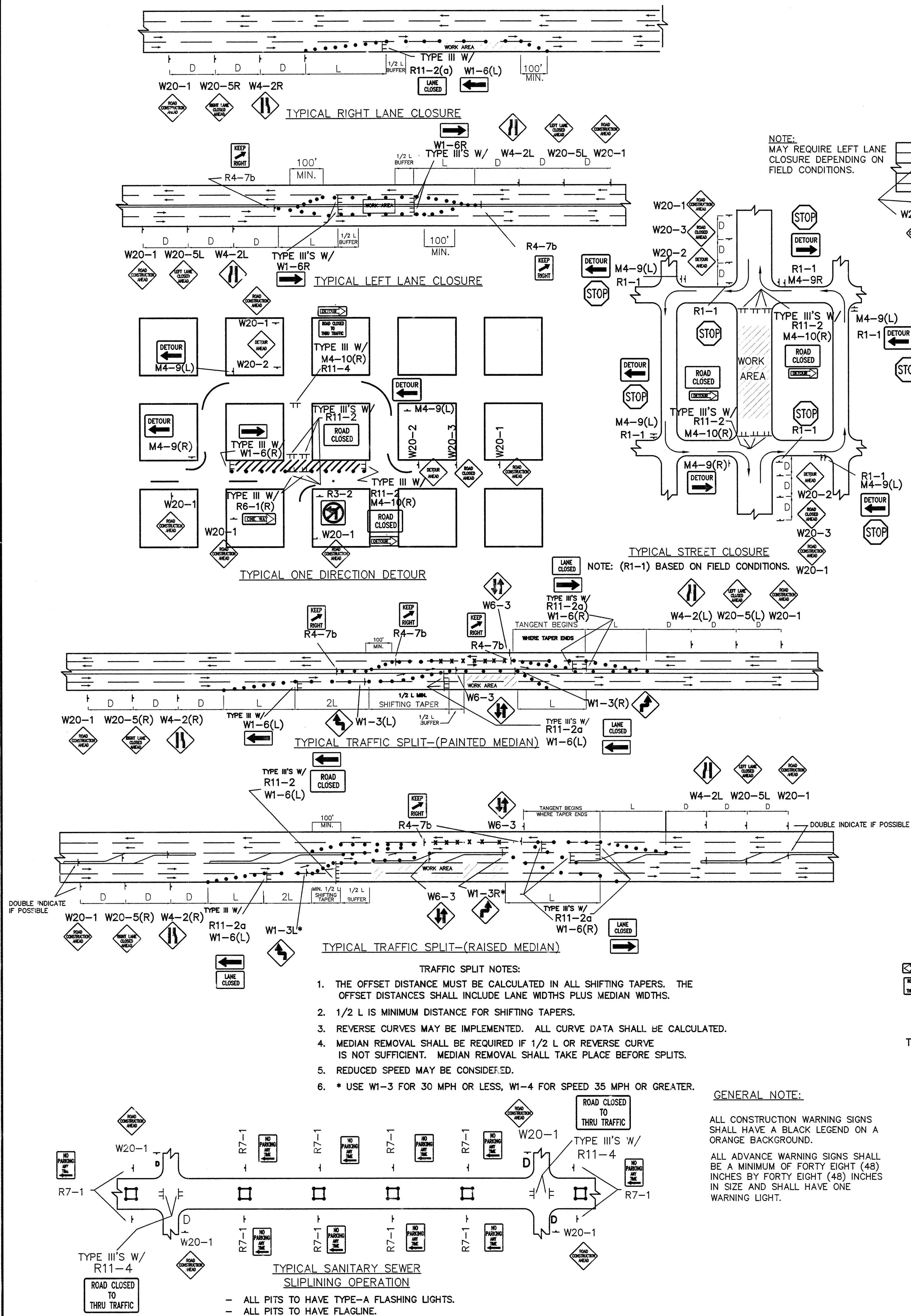


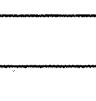


City Project No.	573591	Zone Map No.	B 13	Sheet	13	of	15
------------------	--------	--------------	------	-------	----	----	----

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





	<b>S</b>									
	<b>m</b>									
	<b>i</b>									
	<b>t</b>									
	<b>e</b>									
	<b>n</b>									
<b>CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES</b>										
TITLE:	HUNTER'S RUN PARK IMPROVEMENTS									
TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLE.										
Design Review Committee	City Engineer Approval	Last Design Update	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.	Mn. / Day / Yr.
COA	STD									
City Project No. 573591	Zone Map No. B-13-7	Sheet 14	Of 15							



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 24-HOUR PER DAY BASIS UNTIL COMPLETED.

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

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A 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. 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.

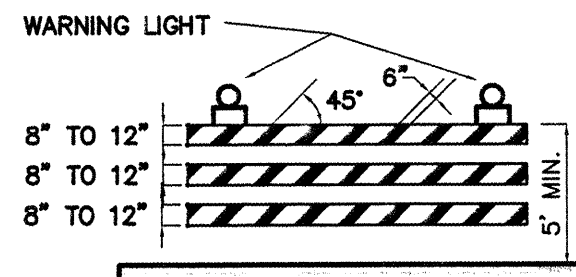
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

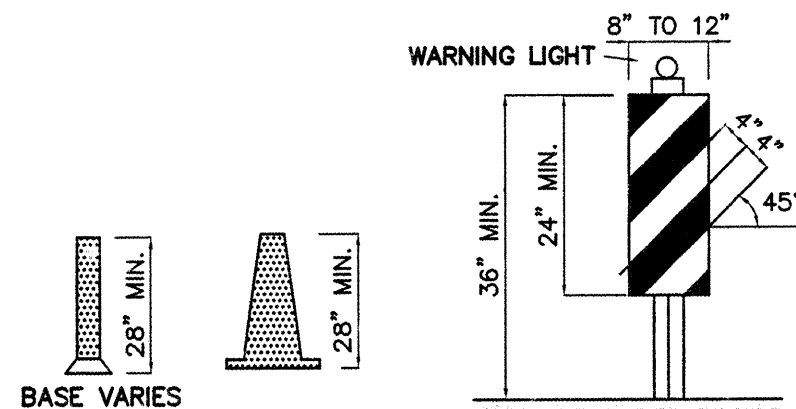
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48-INCH SIGN AS INDICATED IN THE MUTCD.

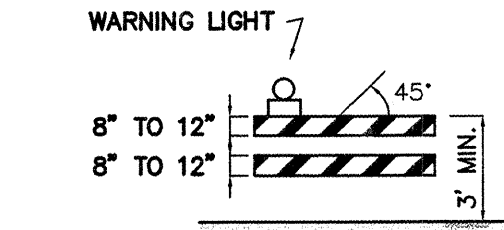
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.



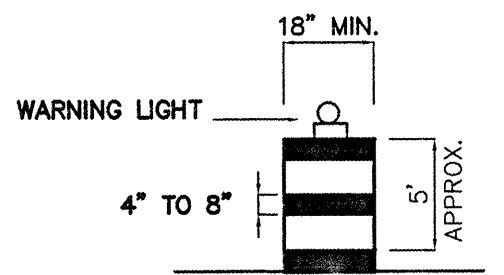
TYPE III BARRICADE



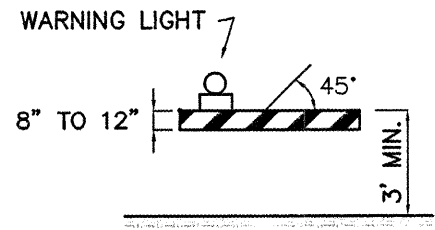
TYPE II BARRICADE



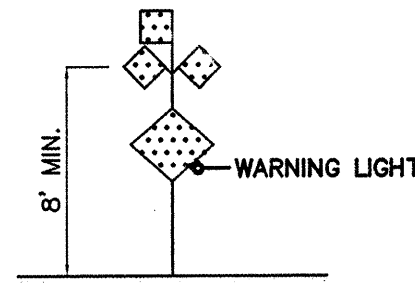
TYPE I BARRICADE



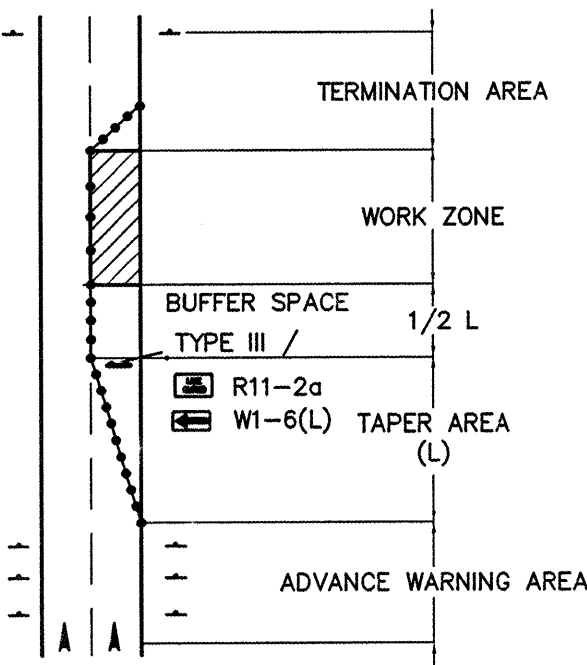
TYPE I BARRICADE



TYPE I BARRICADE



HIGH LEVEL WARNING DEVICE



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		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

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

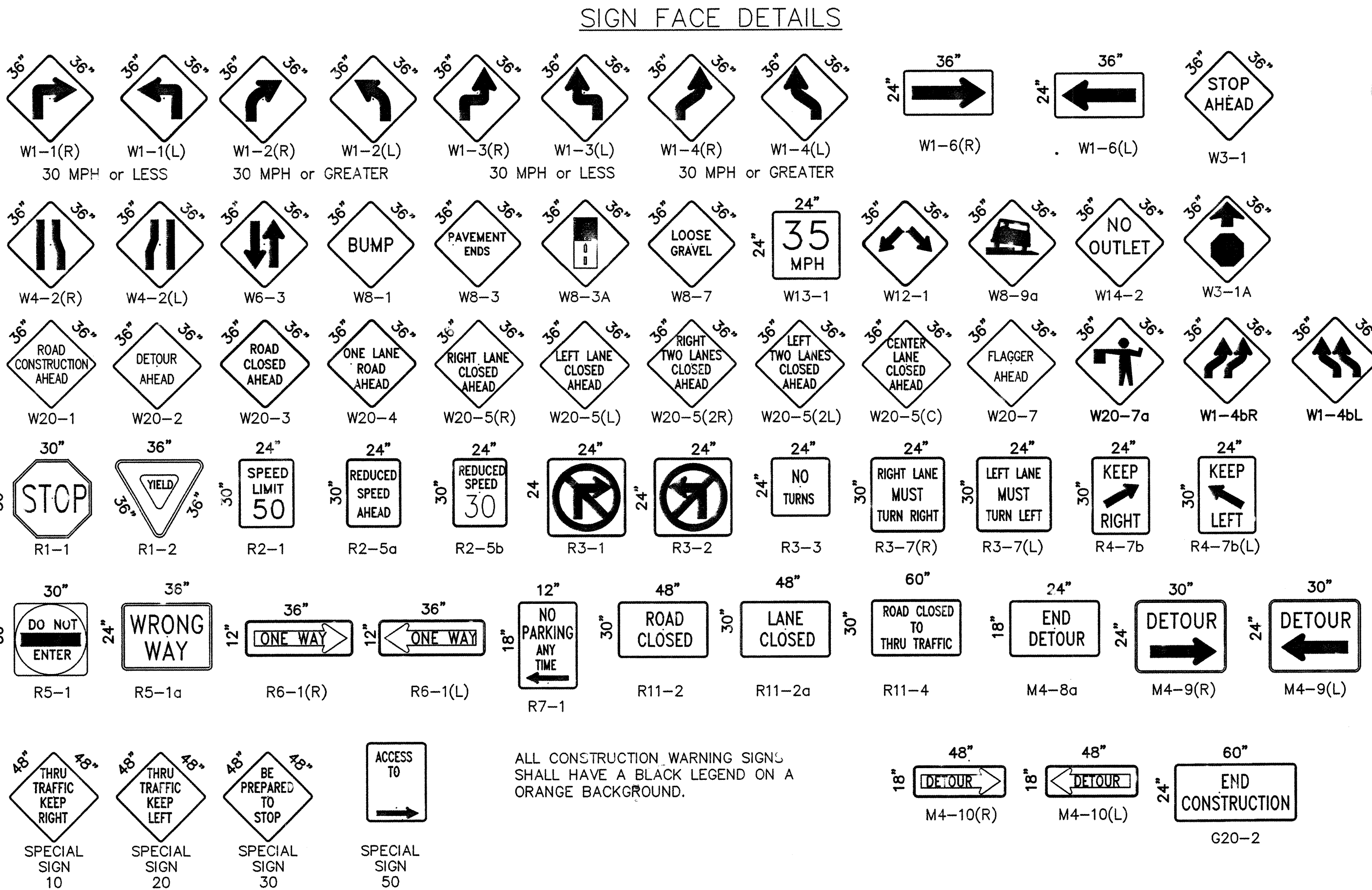
TAPER CRITERIA

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

FOR INFORMATION ONLY



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

AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK STARTED BY	DATE
WORK STOPPED BY	DATE
FIELD ACCEPTANCE BY	DATE
FIELD REVISION BY	DATE
DRAWINGS CORRECTED BY	DATE
MICRO-FILM INFORMATION	DATE
RECORDED BY	NO.

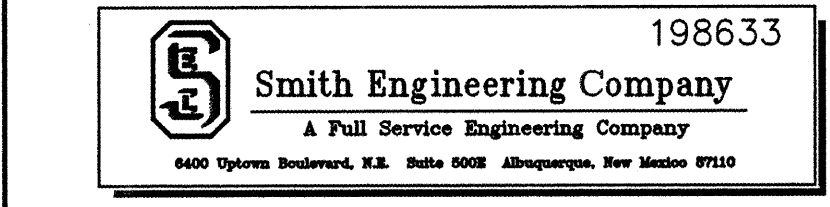
BENCH MARKS	
TEMP. BENCHMARKS: PROPERTY PINS 1/2 REAR WITH CAP	DATE
LS 5823 - SEE HORIZONTAL GEOMETRY PLAN SHEET 7	DATE
FOR LOCATIONS AND COORDINATES	DATE

SURVEY INFORMATION	
FIELD NOTES	DATE
BY	DATE
NO.	DATE

ENGINEERS SEAL	
DATE	BY
DATE	BY
DATE	BY
DATE	BY

REVISIONS	
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DESIGN	
DATE	BY
DATE	BY
DATE	BY
DATE	BY



198633 Smith Engineering Company A Full Service Engineering Company 4400 Uptown Boulevard, N.E. Suite 800B Albuquerque, New Mexico 87110	
CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES	
TITLE: HUNTER'S RUN PARK IMPROVEMENTS SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS	
Design Review Committee	City Engineer Approval
City Project No. 573591	Zone, Map No. B-13-Z
Sheet 15	Of 15