



CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT
LANDSCAPE ARCHITECTURE AND CONSTRUCTION SERVICES

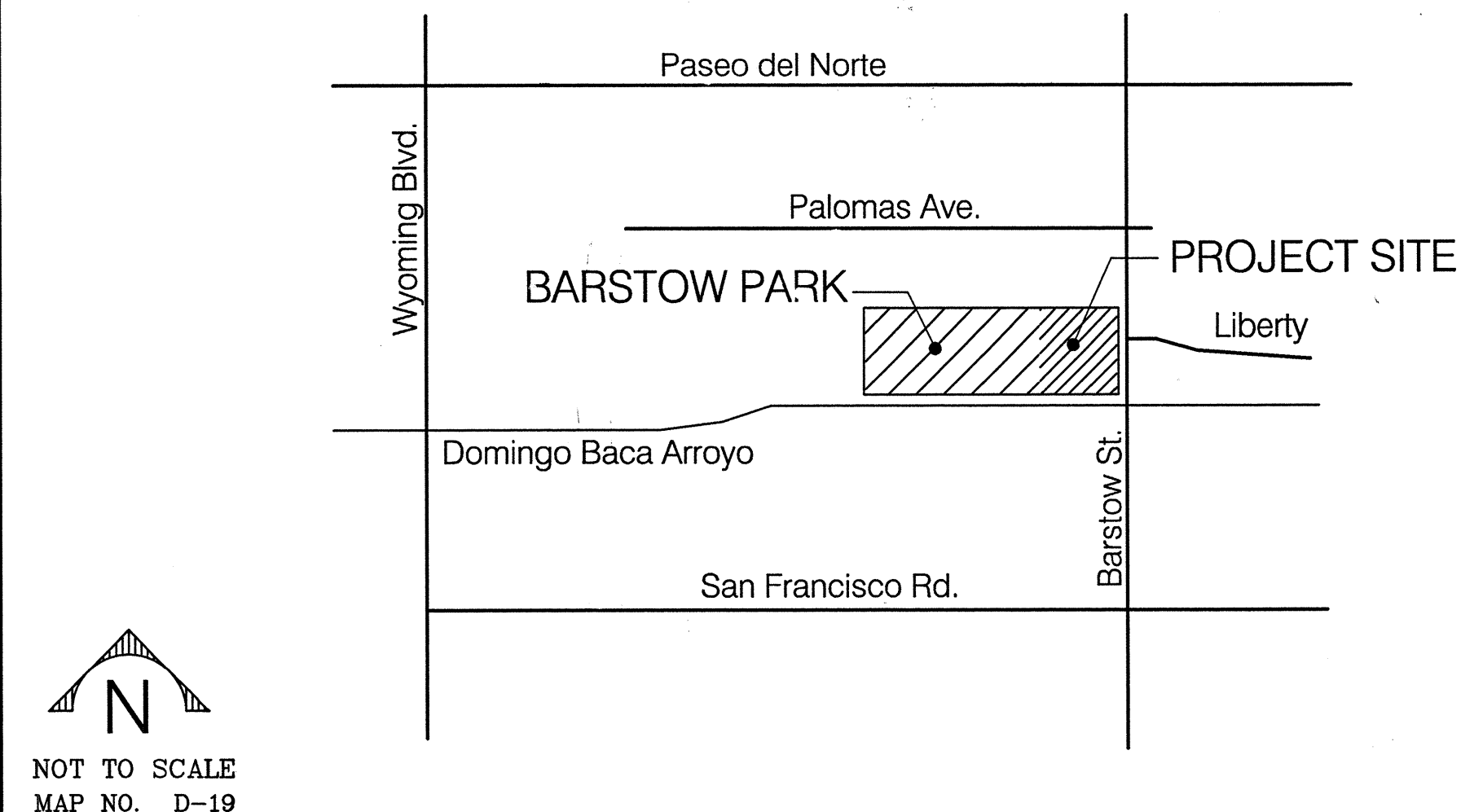
BARSTOW PARK
IMPROVEMENTS

7907 BARSTOW STREET NE 4.27 ACRES

INDEX TO DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET, VICINITY MAP, INDEX TO DRAWINGS
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8	PLANTING PLAN, LEGEND & NOTES
9	TRAFFIC CONTROL
10	TRAFFIC CONTROL

VICINITY MAP



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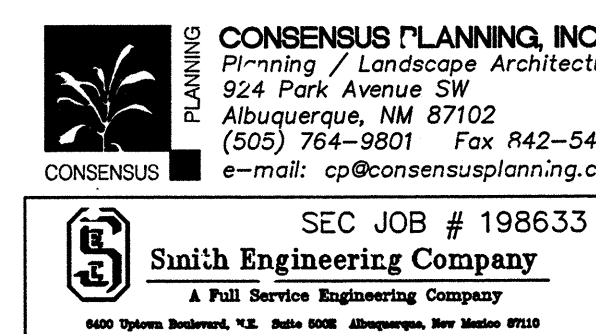
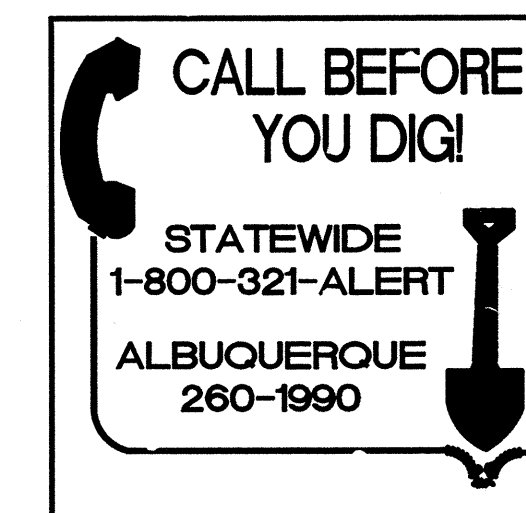
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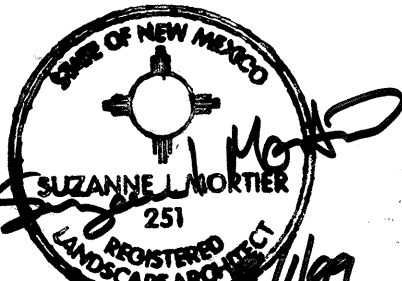
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVED	ENGINEER	DATE	APPROVED FOR CONSTRUCTION		
		DRC Chairman	<i>K. B. L. K.</i>	10-21-99			
		Transportation	<i>[Signature]</i>	10-07-99			
		Water/Wastewater	<i>[Signature]</i>	9-14-99			
		Hydrology	<i>[Signature]</i>	9-14-99			
		CONSTR. COORD.	<i>[Signature]</i>	10-21-99			
		PROJECT NUMBER	4584.91	SHEET 1 OF 10			

- 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 CITY SURVEY SECTION 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 OF ALBUQUERQUE SURVEY SECTION AT THE CONTRACTOR'S EXPENSE. WHEN A CHANGE IS MADE IN THE FINISHED ELEV. OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR WILL, AT HIS OWN EXPENSE, HAVE THE CITY SURVEY SECTION 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, 1986 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, TRENCHING AND SHORING WILL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES, AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH. THESE ACTIVITIES MUST BE IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- 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 18 "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 857-8025, 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 EXISTING ELEVATIONS 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.

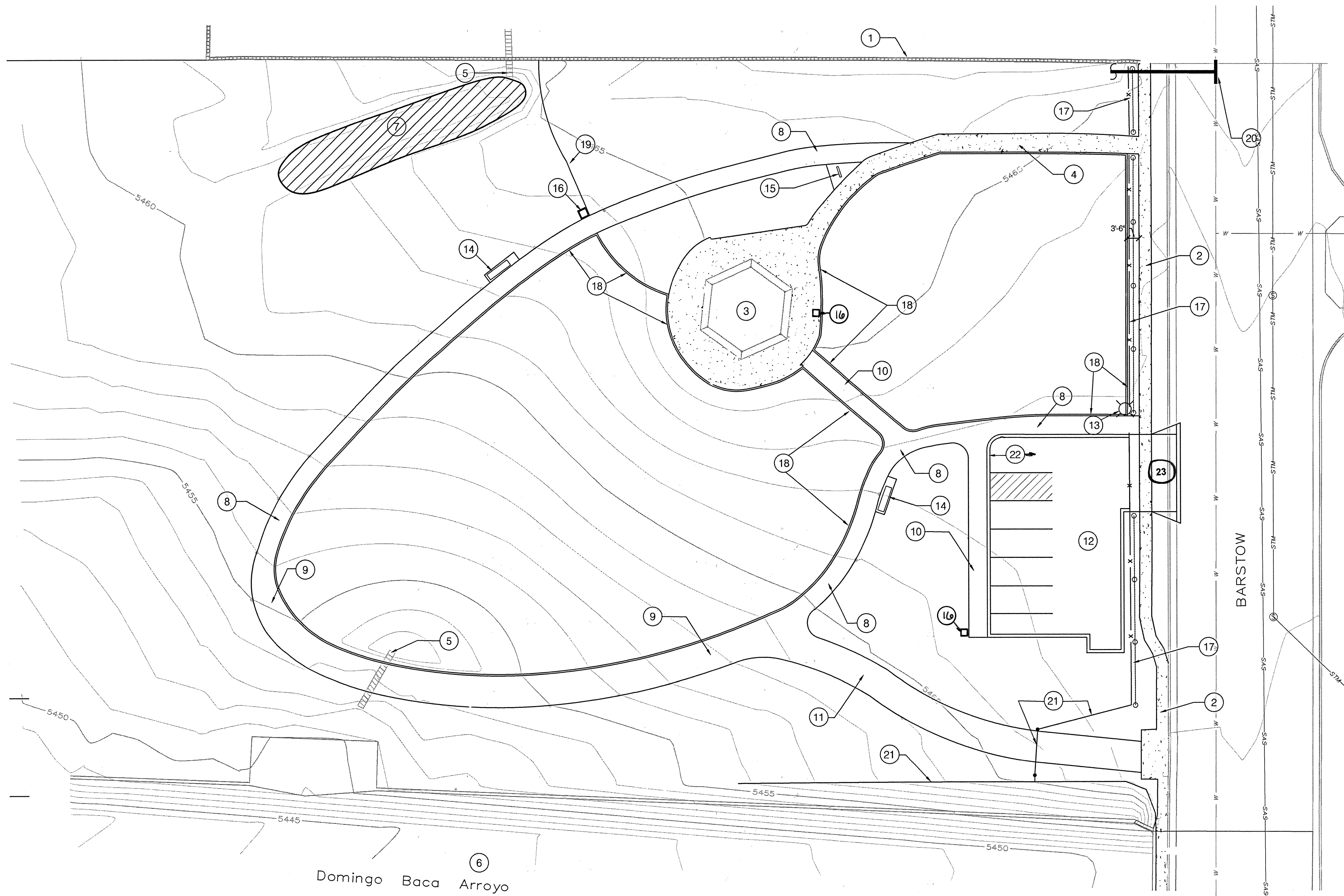
- 50 ALL CLASSES OF SEEDING SHALL BE DRY LAND MIX PLACED AT 1.5 LBS/1000 S.F. WITH FERTILIZER 21-12-12 PLACED AT 5 LBS/1000 S.F.
- 51 PRE-WETTING OF THE EMBANKMENT FOUNDATION AND KEY TRENCH SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE EMBANKMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS 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:

- △ C.O.A. PROJECT CONTROL POINT OR A.C.S. MONUMENT DO NOT DISTURB
- ☑ EXISTING WATER RISER
- EXISTING MANHOLE
- ⊞ EXISTING ELECTRICAL RISER
- ⊞ EXISTING DRAIN INLET
- ⊗ EXISTING WATER VALVE
- ===== EXISTING CURB-AND-GUTTER
- ⊞ EXISTING CABLE TV RISER
- ☼ EXISTING POWER POLE
- SAS— EXISTING SANITARY SEWER
- SD— EXISTING STORM DRAIN
- WTR— EXISTING WATER LINE
- ~~~~~ EXISTING SILT FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING BLOCK WALL
- OHE— EXISTING OVERHEAD UTILITY
- EXISTING INTERMEDIATE CONTOUR
- 5100— EXISTING INDEX CONTOUR
- 5100 NEW INDEX CONTOUR
- NEW INTERMEDIATE CONTOUR
- ===== NEW ASPHALT PATH
- ★ NEW LIGHTPOLE

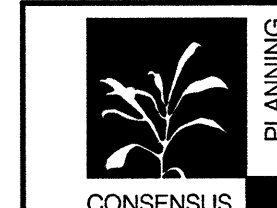
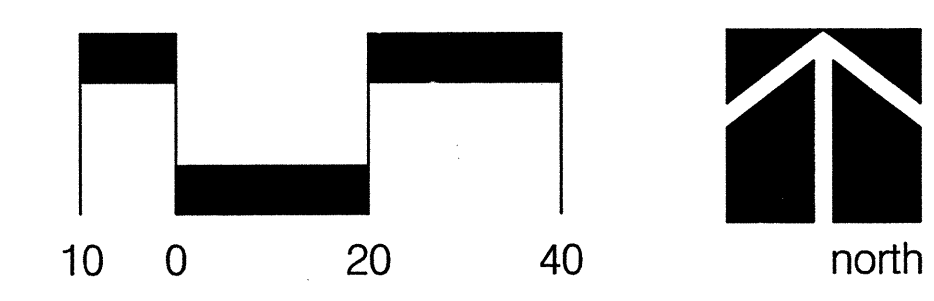
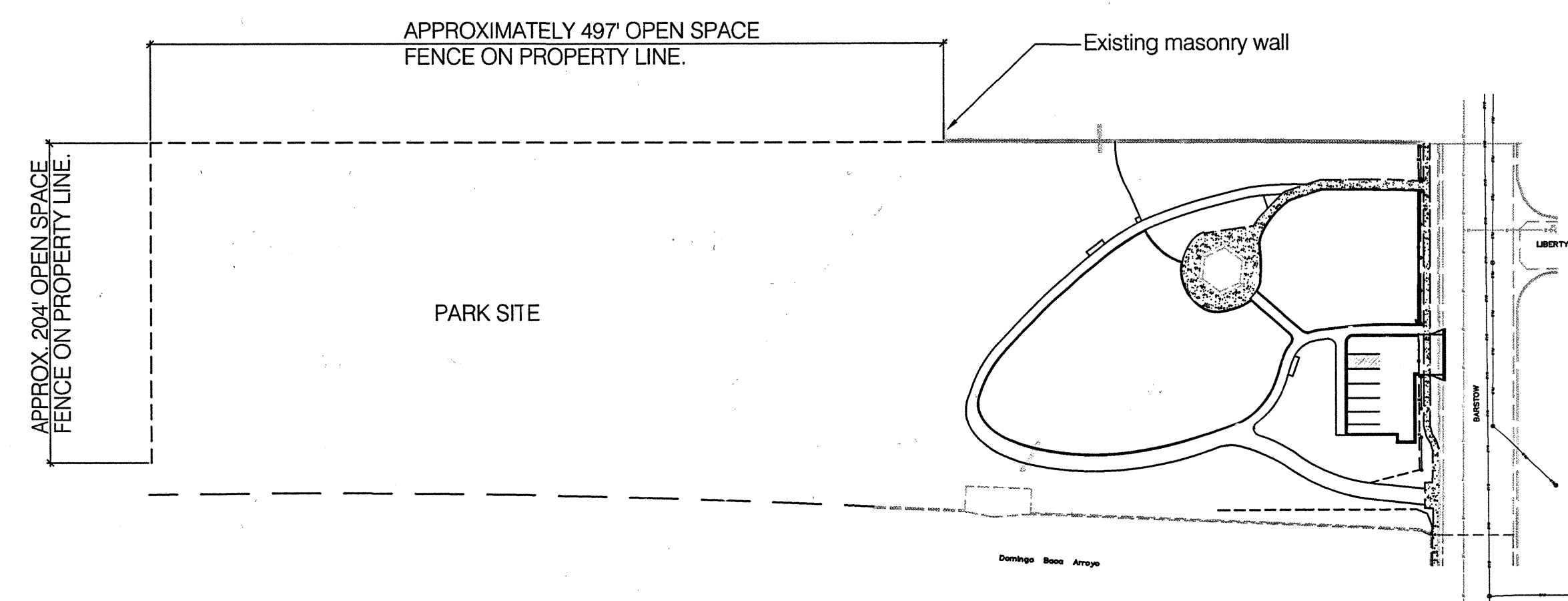
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VERIFICATION BY		DATE	DATE		DATE		DATE		DATE	
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KEYED NOTES

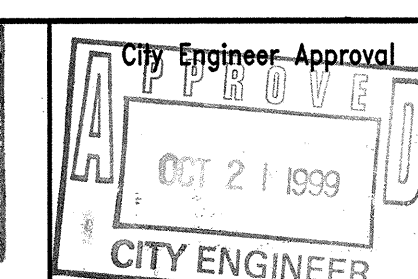
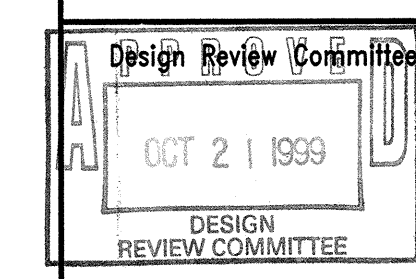
- 1 Existing masonry wall.
- 2 Existing 4' wide concrete sidewalk.
- 3 Existing slab and picnic ramada.
- 4 Existing concrete path.
- 5 Existing drainage pipe.
- 6 Existing drainage channel.
- 7 Existing drainage swale. Remove and dispose of debris in this area. **REMOVE ELMS.**
- 8 Existing crusher fine path to be upgraded to 6' wide asphalt path. See Horizontal & Vertical Layout Plan, sheet 5.
- 9 Existing crusher fine path to be upgraded to 10' wide asphalt path. See Horizontal & Vertical Layout Plan, sheet 5.
- 10 6' wide asphalt path. See Horizontal & Vertical Layout Plan, sheet 5.
- 11 10' wide asphalt path. See Horizontal & Vertical Layout Plan, sheet 5.
- 12 Parking lot area. See Horizontal & Vertical Layout Plan, sheet 5.
- 13 PNM power pole, by others. See Horizontal & Vertical Layout Plan, sheet 5.
- 14 Bench on concrete slab. See Horizontal & Vertical Layout Plan, sheet 5 and detail 1/6.
- 15 Bike rack on concrete slab. See Horizontal & Vertical Layout Plan, sheet 5 and detail 5/6.
- 16 Litter receptacle on concrete slab. See Horizontal & Vertical Layout Plan, sheet 5 and detail 2/6.
- 17 Remove existing fence and install high tensile 'open space' type fence. See detail 1/3 for additional locations for fence.
- 18 Concrete mow-strip. See COA standard detail 2726.
- 19 Ryerson steel edge. See detail 3/8.
- 20 1 1/2" PVC water tap and meter box - verify location in field. **SEE SHEET 7.**
- 21 Existing guard rail and gate to remain, **FOR AMARCA ACCESS + FUTURE TRAIL LINK.**
- 22 Handicap sign and painted symbol.
- 23 **NEW DRIVE PAD**



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CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT

TITLE: **BARSTOW PARK IMPROVEMENTS
SITE PLAN**



Last Design Update

No. / Day / Yr.	No. / Day / Yr.

ENGINEERS SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		CONTRACTOR		WORK	
		NO.	BY	DATE	NO.	DATE	DATE
REVISIONS		NO.	DATE	BY	NO.	DATE	DATE
DESIGN							
DESIGNED BY	SM						
DRAWN BY	BV						
CHECKED BY	SM						

- 1.) Coordinates are modified (surface) New Mexico State Plane - Central Zone, NAD 27 and have been adjusted to the City of Albuquerque Control stations 2-D20A and 6-C19 (Project Average Combined Factor = .99964777).
- 2.) Elevations are referred to sea level, NGVD 29, and have been adjusted to the City of Albuquerque Control station 2-D20A.
- 3.) Utility information shown is based on physical features such as valves, manholes etc. The surveyor makes no guarantee as to the completeness or accuracy of buried utilities shown hereon. The contractor should verify the actual locations of buried utilities prior to excavation.



THE EXISTING SITE FOR THE BARSTOW PARK, PHASE II CONSISTS OF IMPROVEMENTS TO 1.142 ACRES OF THE PARK. THESE IMPROVEMENTS WILL CONSIST OF A NEW ASPHALT PATH, NEW GRASS AND NATURAL LANDSCAPED AREAS, AND A NEW PARKING LOT ALONG BARSTOW. THE EXISTING POC PATH AND GAZEBO AREA WILL REMAIN. THE HYDROLOGY FOR THE PARK WAS DEVELOPED USING CHAPTER 22.2 OF THE CITY OF ALBUQUERQUE DPM. THE PARK IS LOCATED IN ZONE 4 AS DELINEATED IN THE DPM. LAND USE WAS DETERMINED USING TABLE A-4, PAGE 22-10 AND THE PEAK RAINFALL RUNOFF (CFS PER ACRE) IS TAKEN FROM TABLE A-9, PAGE 22-15.

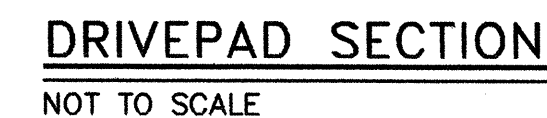
THE AREA THAT IS OULINED AND DENOTED BY KEYED NOTE 22 SHOWS THE LIMITS OF THE AREAS FOR THE EXISTING HYDROLOGY ANALYSIS. THE EXISTING PARK CONSIST OF AN EXISTING PCC SIDEWALK (KEYED NOTE 4) AN EXISTING GAZEBO (KEYED NOTE 5), AND LANDSCAPED AREAS (REMAINDER OF OULINED AREA). THE EXISTING LANDSCAPING CONSISTS OF NATURAL GRASSES AND WEEDS. THE EXISTING PARK IS NOT IRRIGATED. THE LAND USE AND RUNOFF RATES ARE PRESENTED IN THE FOLLOWING TABLE:

THIS RUNOFF WILL FLOW OVERLAND TO THE DOMINGO BACA ARROYO.

THE AREA THAT IS OUTLINED AND DENOTED BY KEYED NOTE 23 SHOWS THE LIMITS OF THE AREA USED FOR THE PROPOSED HYDROLOGY ANALYSIS. THE PROPOSED IMPROVEMENTS TO THE PARK WILL CONSIST OF A NEW ASPHALT PARK (KEYED NOTES 1 AND 2), A PARKING AREA ADJACENT TO BARSTOW STREET (KEYED NOTES 7), AND NEW LANDSCAPING WITH AN IRRIGATION SYSTEM. THE PROPOSED IMPROVEMENTS TO THE PARK WILL DRAIN TO BARSTOW STREET WHILE DRAIN TO THE STREET WHILE THE REMAINDER OF THE PARK WILL DRAIN TO THE DOMINGO BACA ARROYO AS IT CURRENTLY DOES. THE LANDSCAPING WILL CONSIST OF GRASS IN THE MAIN AREA OF THE PARK JUST SOUTH OF THE GAZEBO AND NATIVE PLANT LANDSCAPING IN THE OPEN AREAS. THE LAND USE AND RUNOFF RATES ARE PRESENTED IN THE FOLLOWING TABLE:

CONDITIONS	RUNOFF RATE, CFS
EXISTING PARK	2.71
PROPOSED IMPROVEMENTS	3.98
INCREASE IN FLOW DUE TO PROPOSED IMPROVEMENTS	1.27

1. CONSTRUCT NEW 6' WIDE ASPHALT PATH ON TOP OF PREPARED SUBGRADE MIXED WITH EXISTING CRUSHER FINE PATH MATERIAL. SEE SECTION ON THIS SHEET. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 6' WIDE SIDEWALK SECTION ON SHEET 5.
2. CONSTRUCT NEW 10' WIDE ASPHALT PATH ON TOP OF PREPARED SUBGRADE MIXED WITH EXISTING CRUSHER FINE PATH MATERIAL. SEE SECTION ON THIS SHEET. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 10' WIDE SIDEWALK SECTION ON SHEET 5.
3. 6' WIDE ASPHALT PATH. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5. SEE 6' WIDE SIDEWALK SECTION ON SHEET 5.
4. EXISTING CONCRETE PATH TO REMAIN UNDISTURBED.
5. EXISTING CONCRETE SLAB AND RAMADA TO REMAIN UNDISTURBED.
6. EXISTING 4' WIDE CONCRETE SIDEWALK TO REMAIN.
7. CONSTRUCT NEW PARKING LOT, SEE PAVEMENT SECTION ON SHEET 5. SEE HORIZONTAL AND VERTICAL LAYOUT PLAN, SHEET 5.
8. CONSTRUCT NEW DRIVEPAD PER CITY OF ALBUQUERQUE STANDARD DRAWING 2425, EXCEPT AS MODIFIED BY SECTION ON THIS SHEET.
9. REMOVE 25 LF OF EXISTING 4' WIDE BY 4" THICK SIDEWALK AND CONSTRUCT 25 LF OF 4' WIDE BY 6" THICK SIDEWALK.
10. REMOVE 175 LF OF EXISTING FENCE AND REPLACE WITH HIGH TENSILE FENCE. SEE SITE PLAN, SHEET 3.
11. EXISTING 18" CMP TO REMAIN IN PLACE. REMOVE AND DISPOSE OF ALL DEBRIS AROUND AND WITHIN THE EXISTING 18" CMP CULVERT.
12. INSTALL BENCH ON CONSTRUCTED CONCRETE SLAB. SEE SITE PLAN, SHEET 3.
13. END NEW FENCE AT EXISTING GUARDRAIL.
14. INSTALL TRASH RECEPTACLE ON CONSTRUCTED CONCRETE SLAB. SEE SITE PLAN, SHEET 3.
15. INSTALL STEEL EDGE. SEE SITE PLAN, SHEET 3.
16. EXISTING MASONRY WALL TO REMAIN UNDISTURBED.
17. EXISTING GATE TO REMAIN UNDISTURBED.
18. CONSTRUCT NEW 6" WIDE CONCRETE MOW-STRIP. SEE SITE PLAN, SHEET 3.
19. INSTALL DEPRESSED MEDIAN CURB & GUTTER PER CITY OF ALBUQUERQUE STD. DWG. 2415.
20. REMOVE AND REPLACE ASPHALT PAVEMENT SECTION PER C.O.A. SPECIFICATIONS & COA DETAIL 2465
21. FLOW ARROW (TYP.)
22. EXISTING CONDITIONS HYDROLOGY ANALYSIS AREA
23. PROPOSED CONDITIONS HYDROLOGY ANALYSIS AREA

[illegible]


 PROJECT NO. 199603
Smith Engineering Company
 A Full Service Engineering Company
 6600 Uptown Boulevard, N.E. Suite 602B Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT	
TITLE:	BARSTOW PARK IMPROVEMENTS PROJECT CONSTRUCTION/GRADING AND DRAINAGE PLAN

Design Review Committee APPROVED OCT 21 1999 DESIGN REVIEW COMMITTEE		City Engineer Approval APPROVED OCT 21 1999 CITY ENGINEER		Last Design Update <table><tr><td>Mo. / Day / Yr.</td><td>Mo. / Day / Yr.</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		Mo. / Day / Yr.	Mo. / Day / Yr.												
Mo. / Day / Yr.	Mo. / Day / Yr.																		
City Project No. 4584		Zone Map No. D-19		Sheet 4 Of 10															

SURVEY NOTES:

- 1.) Coordinates are modified (surface) New Mexico State Plane - Central Zone, NAD 27 and have been adjusted to the City of Albuquerque Control stations 2-D20A and 6-C19 (Project Average Combined Factor = .99964777).
- 2.) Elevations are referred to sea level, NGVD 29, and have been adjusted to the City of Albuquerque Control station 2-D20A.
- 3.) Utility information shown is based on physical features such as valves, manholes etc. The surveyor makes no guarantee as to the completeness or accuracy of buried utilities shown hereon. The contractor should verify the actual locations of buried utilities prior to excavation.

LINE TABLE

NUMBER	DIRECTION	DISTANCE
L1	S 84°09'28" E	30.40 FT
L2	S 49°08'04" E	42.74 FT
L3	S 00°00'00" E	66.32 FT
L4	S 89°53'45" E	24.93 FT

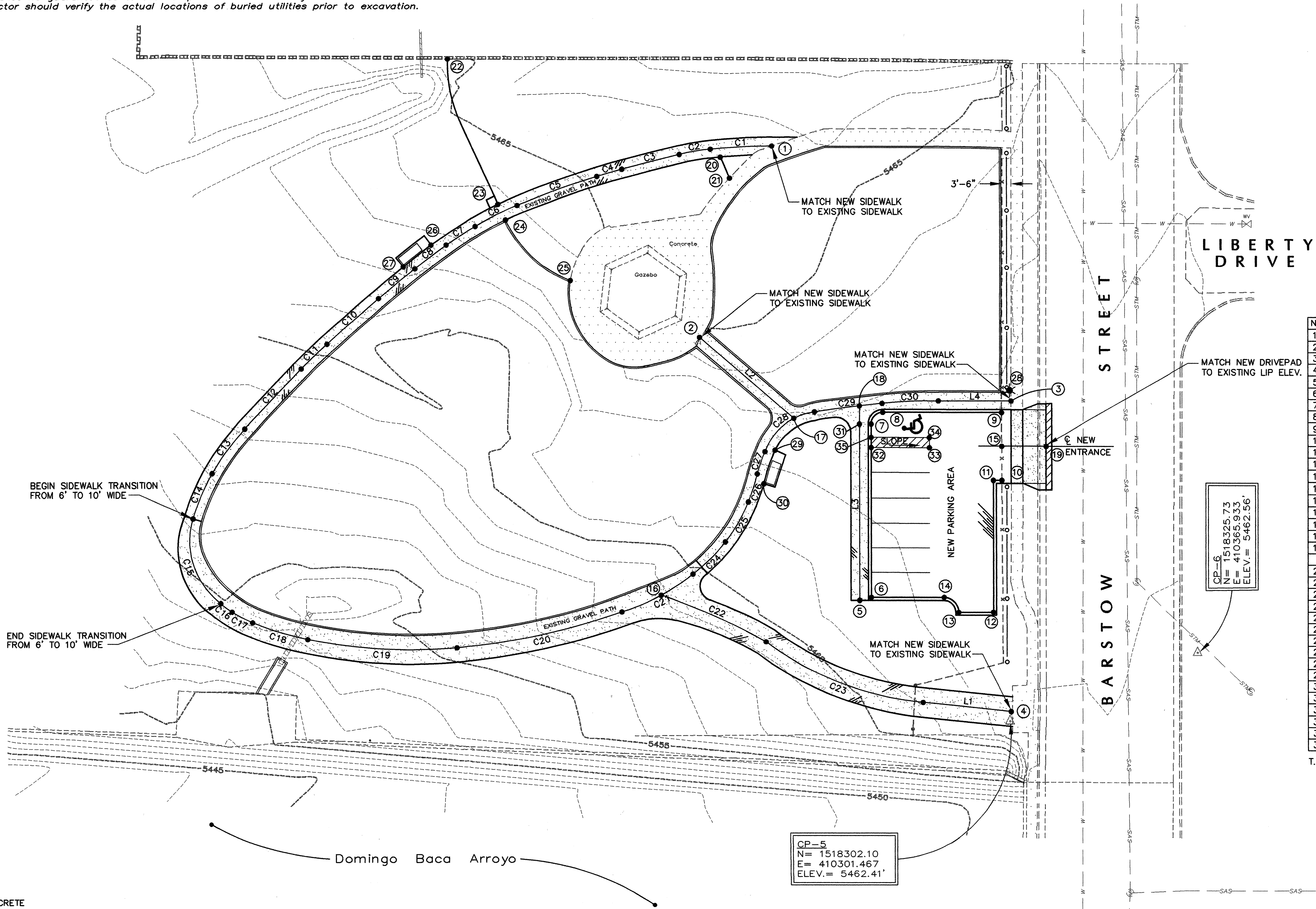
CURVE TABLE

NUMBER	DELTA	RADIUS	TANGENT	LENGTH	CHORD BEARING
C1	05°05'04"	237.85	10.56	21.11	S 86°55'32" W
C2	08°06'11"	76.52	5.42	10.82	S 80°19'55" W
C3	01°00'12"	1161.26	10.17	20.34	S 75°46'43" W
C4	02°16'23"	226.34	4.49	8.98	N 74°08'25" E
C5	04°59'30"	333.83	14.55	29.08	S 70°30'29" W
C6	09°01'41"	102.20	8.07	16.10	S 63°29'53" W
C7	04°01'11"	169.77	5.96	11.91	S 56°58'27" W
C8	03°33'31"	216.59	6.73	13.45	S 53°11'06" W
C9	02°12'31"	420.72	8.11	16.22	N 50°18'05" E
C10	01°30'33"	900.89	11.87	23.73	S 48°26'33" W
C11	03°35'37"	196.39	6.16	12.32	S 45°53'28" W
C12	01°33'47"	1037.65	14.16	28.31	S 43°18'46" W
C13	12°02'18"	90.06	9.50	18.92	N 36°30'43" E
C14	13°47'56"	68.63	8.30	16.53	S 23°35'36" E
C15	69°24'34"	26.93	18.65	32.62	S 18°00'38" E
C16	06°36'38"	42.18	2.44	4.87	S 53°08'33" E
C17	10°51'03"	42.18	4.01	7.99	N 61°52'24" W
C18	10°57'45"	103.47	9.93	19.80	N 72°46'47" W
C19	16°51'33"	175.15	25.96	51.54	S 86°41'26" E
C20	14°50'39"	224.99	29.31	58.29	N 77°27'28" E
C21	22°53'43"	69.54	14.08	27.79	N 62°02'41" E
C22	11°25'44"	197.94	19.81	39.48	N 66°00'18" W
C23	32°11'25"	104.38	30.12	58.64	S 68°39'50" E
C24	15°17'00"	59.13	7.93	15.77	N 45°13'58" E
C25	15°11'20"	59.87	7.98	15.87	S 29°59'48" W
C26	07°53'51"	71.14	4.91	9.81	S 18°27'12" W
C27	09°40'00"	47.52	4.02	8.02	N 19°20'17" E
C28	63°01'28"	20.83	12.77	22.91	N 51°23'31" E
C29	03°13'09"	416.38	11.70	23.39	N 82°43'20" E
C30	06°44'21"	165.04	9.72	19.41	S 87°19'43" W

POINT TABLE

NUMBER	NORTHING	EASTING	ELEVATION	DESC.
1	1518499.26	410219.80	5462.88	MATCH EXISTING T.A.
2	1518433.74	410194.93	5462.88	MATCH EXISTING T.A.
3	1518411.82	410301.90	5462.88	MATCH EXISTING T.A.
4	1518305.26	410301.78	5462.88	MATCH EXISTING T.A.
5	1518343.79	410249.81	5463.38	T.A.
6	1518344.79	410253.81	5462.88	T.A.
7	1518403.85	410253.81	5462.84	T.A.
8	1518407.85	410257.82	5462.80	T.A.
9	1518407.78	410298.62	5462.39	T.A.
10	1518384.79	410298.74	5462.27	T.A.
11	1518384.79	410295.81	5462.30	T.A.
12	1518339.79	410295.81	5462.75	T.A.
13	1518339.79	410283.81	5462.76	T.A.
14	1518344.79	410278.81	5462.71	T.A.
15	1518396.28	410298.68	5462.33	T.A.
16	1518345.44	410181.62	5458.83	T.A.
17	1518405.77	410227.25	5462.99	T.A.
18	1518410.11	410249.81	5463.30	T.A.
19	1518396.27	410313.91	5462.16	MATCH EXISTING T.A.
20	1518495.42	410202.13	5462.88	MATCH EXISTING T.A.
21	1518488.36	410205.29	5462.88	MATCH EXISTING T.C.
22	1518528.91	410108.46	5463.81	MATCH EXISTING T.G.
23	1518479.56	410125.75	5463.81	T.A.
24	1518474.15	410128.34	5463.68	T.A.
25	1518453.33	410150.58	5462.72	MATCH EXISTING T.C.
26	1518465.46	410102.74	5462.72	T.A.
27	1518458.10	410093.21	5462.16	T.A.
28	1518415.51	410301.36	5462.27	NEW LIGHTPOLE T.A.
29	1518394.97	410220.81	5461.68	T.A.
30	1518383.62	410216.90	5461.68	T.A.
31	1518403.85	410249.81	5463.34	T.A.
32	1518395.82	410253.81	5463.34	RAMP
33	1518395.82	410273.81	5462.58	RAMP
34	1518399.32	410273.81	5462.58	RAMP
35	1518399.32	410253.81	5463.34	RAMP

T.A.=TOP OF ASPHALT T.C.=TOP OF CONCRETE T.G.=TOP OF GROUND



1 1/2" ASPHALT CONCRETE
PAVEMENT, PLANT MIX BITUMINOUS
PAVEMENT TYPE I, GRADE B. (2LIFTS)

TACK COAT BETWEEN LIFTS

12" SUBGRADE PREPARATION
AT 95% MODIFIED PROCTOR

2" ASPHALT CONCRETE PAVEMENT,
PLANT MIX BITUMINOUS PAVEMENT
TYPE I, GRADE A. (1 LIFT)

DIMENSION VARIES - SEE PLANS

4" ASPHALT CONCRETE PAVEMENT,
PLANT MIX BITUMINOUS PAVEMENT
TYPE I, GRADE A. (2-2" LIFTS)

DIMENSION VARIES - SEE PLANS

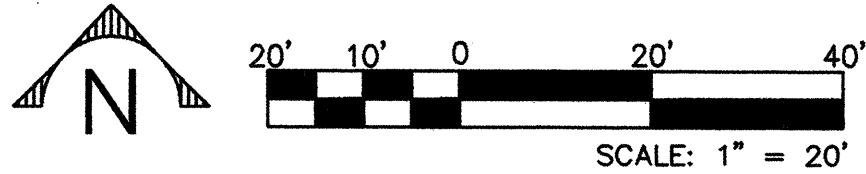
12" SUBGRADE PREPARATION
AT 95% MODIFIED PROCTOR.
CONTRACTOR SHALL BLEND
AND COMPACT EXISTING GRAVEL
INTO SUBGRADE AND MAINTAIN
DENSITY & WATER CONTENT
WHERE NEW SIDEWALK IS ON
EXISTING GRAVEL PATH

12" SUBGRADE PREPARATION
AT 95% MODIFIED PROCTOR.
CONTRACTOR SHALL BLEND
AND COMPACT EXISTING GRAVEL
INTO SUBGRADE AND MAINTAIN
DENSITY & WATER CONTENT
WHERE NEW SIDEWALK IS ON
EXISTING GRAVEL PATH

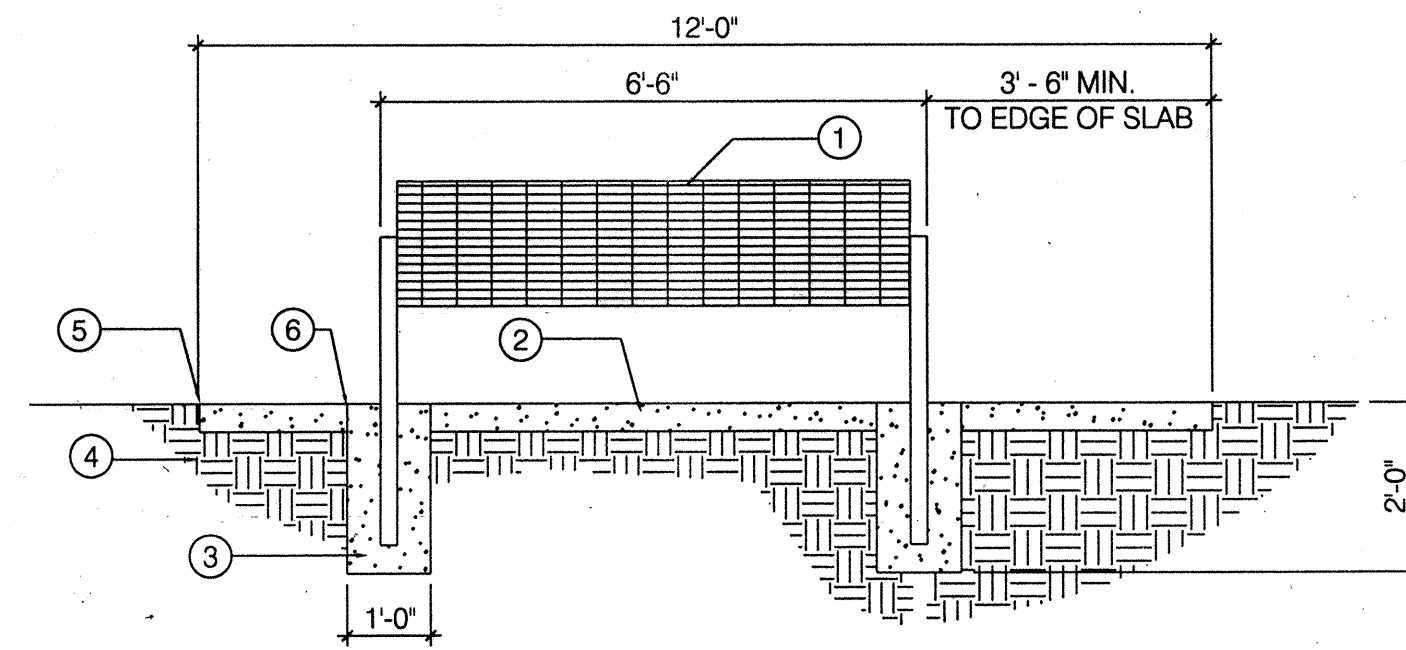
ASPHALT PAVEMENT SECTION
NOT TO SCALE

6' SIDEWALK ASPHALT SECTION
NOT TO SCALE

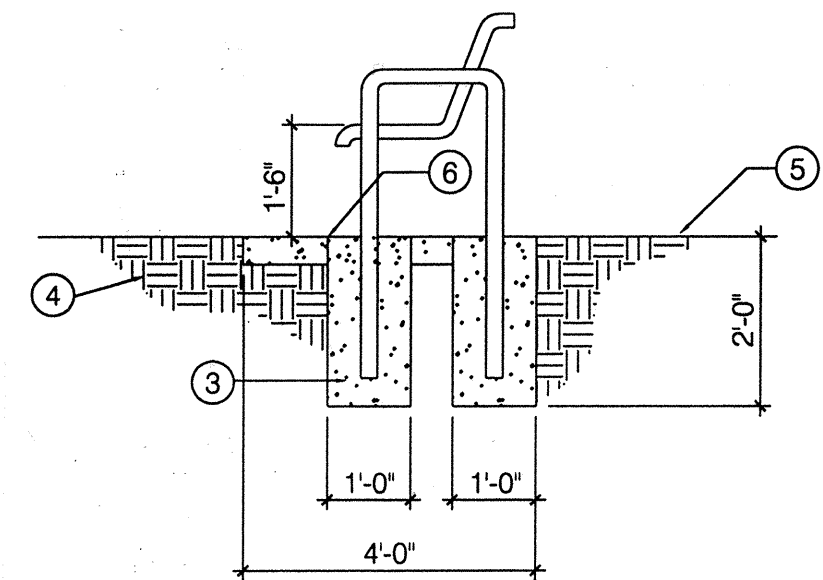
10' SIDEWALK ASPHALT SECTION
NOT TO SCALE



PROJECT NO. 199603 Smith Engineering Company A Full Service Engineering Company 6600 University Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110	
CITY OF ALBUQUERQUE PARKS AND RECREATION DEPARTMENT	
TITLE: BARSTOW PARK IMPROVEMENTS PROJECT	
HORIZONTAL AND VERTICAL LAYOUT PLAN	
Design Review Committee APPROVED OCT 2 1999	City Engineer Approval APPROVED OCT 2 1999
City Project No. 4584	Zone Map No. D-19
Sheet 5	Of 10



FRONT VIEW

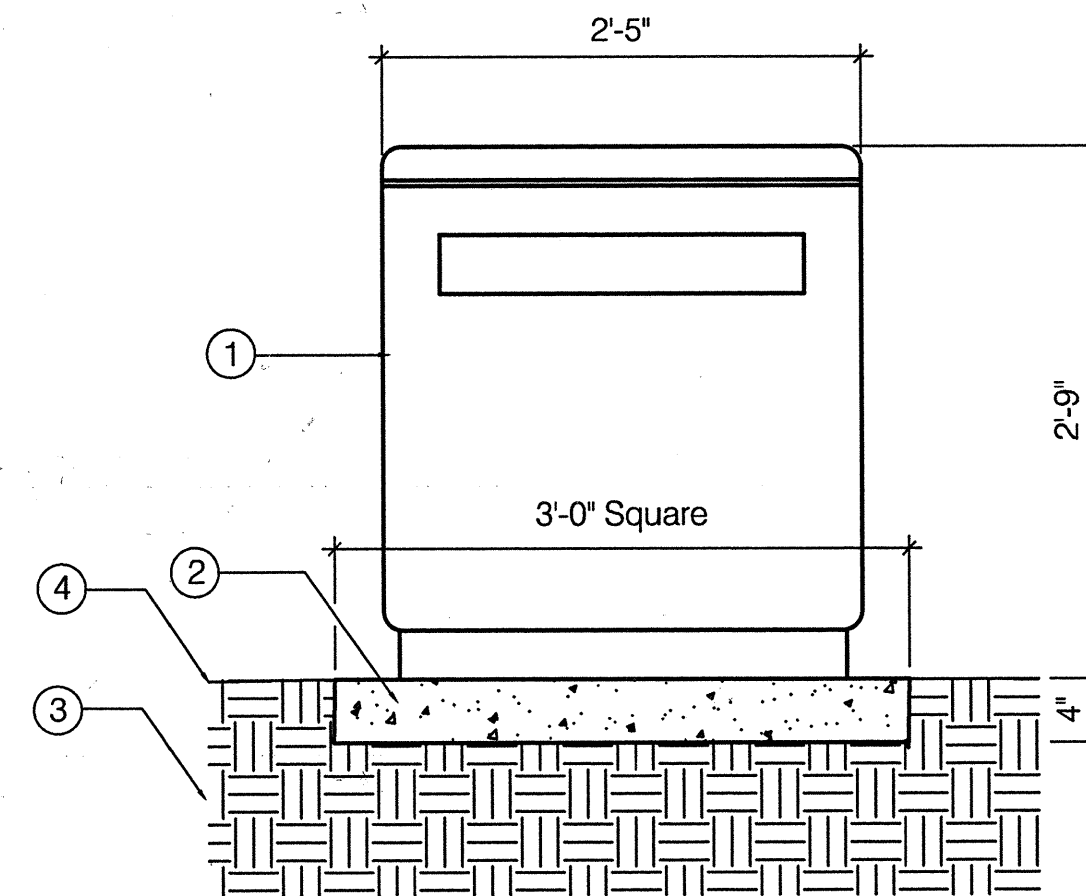


SIDE VIEW

NOTE: Install per manufacturer's specifications.

CONSTRUCTION NOTES:

- 1 Bench with back - see Site Amenities Legend, sheet 6.
- 2 Concrete pad, 4,000 psi.
- 3 Concrete footing, 4,000 psi.
- 4 Compacted subgrade.
- 5 Surface treatment - see Planting Plan, sheet 8.
- 6 Expansion joint, (typical).



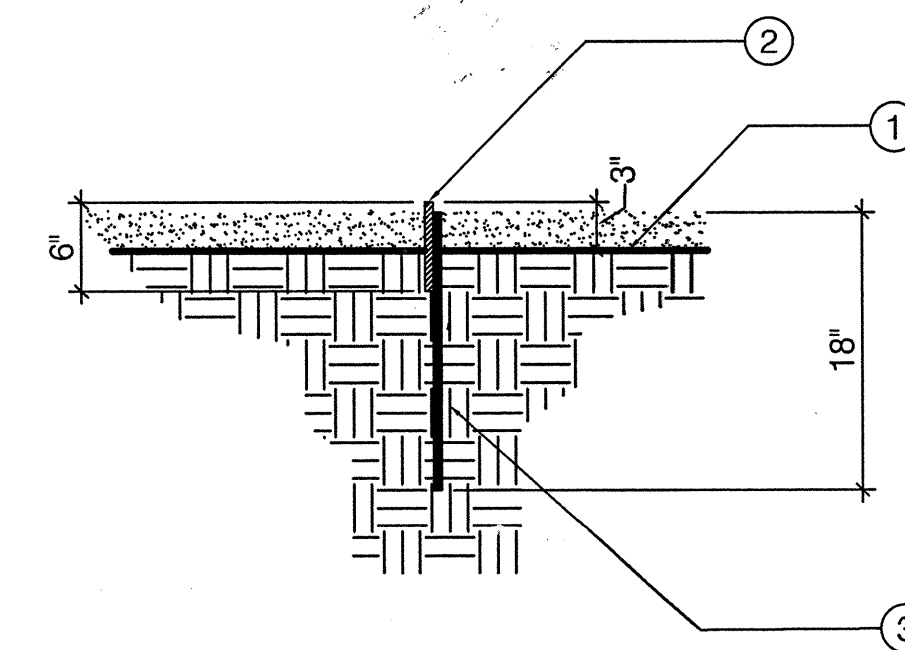
CONSTRUCTION NOTES

- 1 Litter receptacle - see Site Amenities Legend, sheet 6, and Site Plan, sheet 3, for locations.
- 2 Concrete pad, 4,000 psi.
- 3 Compacted subgrade.
- 4 Surface treatment - see Planting Plan, sheet 8.

CONSTRUCTION NOTES:

- 1 Finish grade at planting area. See Planting Plan, sheet 8.
- 2 1/8" x 6" Ryerson steel edging.
- 3 18" steel stake @ 30" O.C.

NOTE: Top of steel edge shall be placed flush with adjacent curb or walk.



1 BENCH

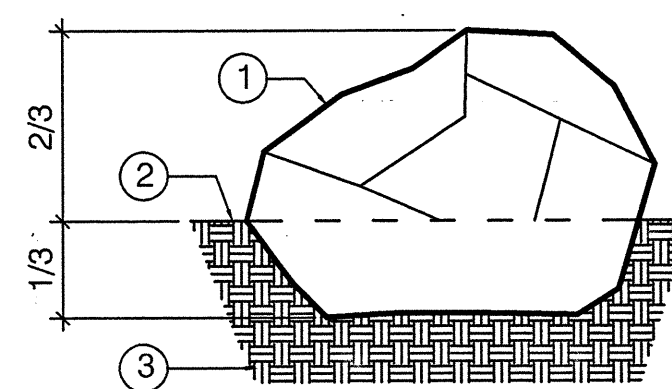
NTs

2 LITTER RECEPTACLE

Scale: 1" = 1'-0"

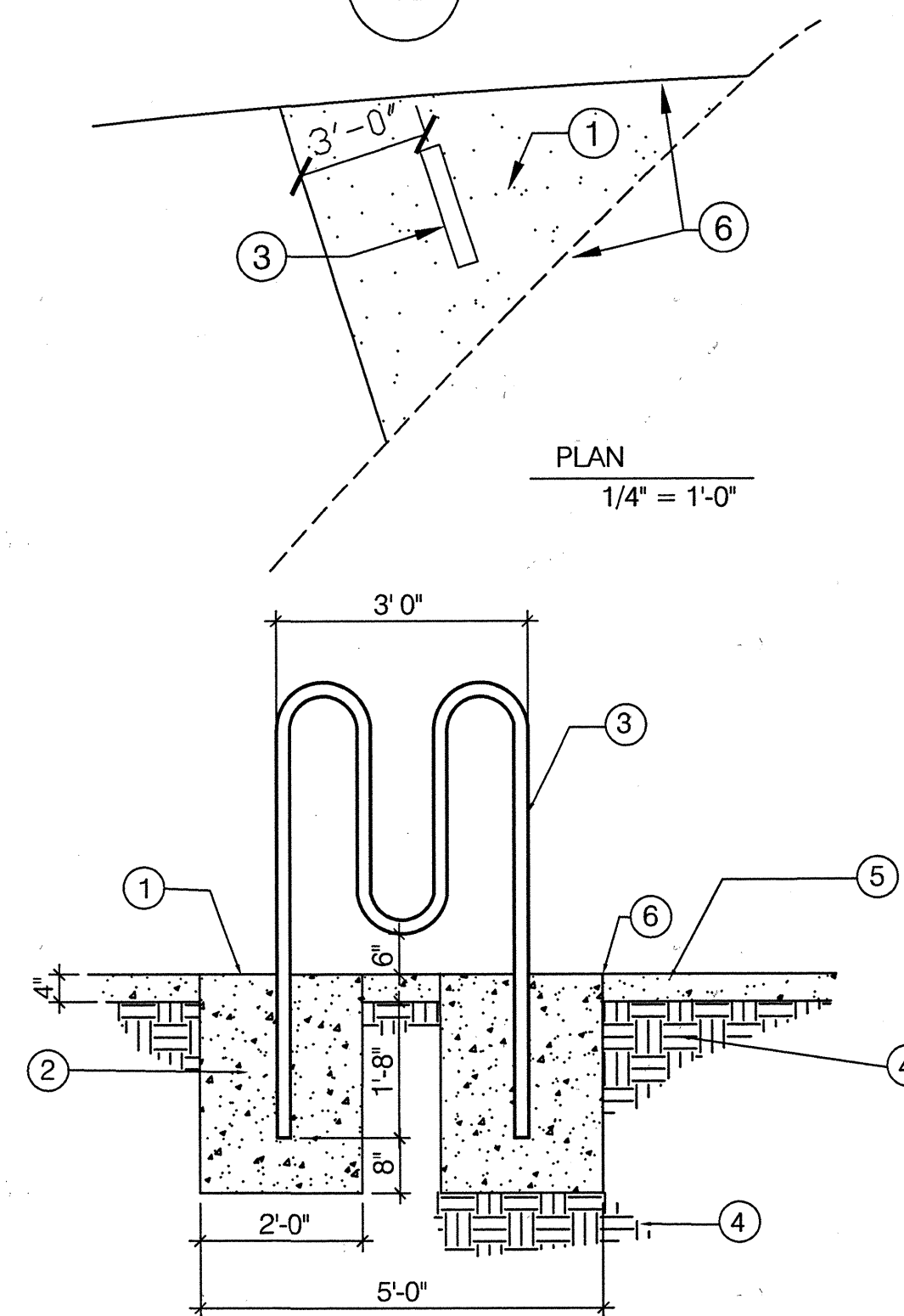
3 STEEL EDGE

Scale: 1" = 1'-0"



CONSTRUCTION NOTES

- 1 Landscape boulder, 3' min. dimension in each direction.
- 2 Surface treatment, see Planting Plan, sheet 8.
- 3 Compacted subgrade to 95%.



SECTION
1/2" = 1'-0"

CONSTRUCTION NOTES

- 1 Concrete pad w/ medium broom finish, 4,000 psi.
- 2 Concrete footing, 4,000 psi.
- 3 Bicycle rack - see Site Amenities Legend, sheet 6.
- 4 Compacted subgrade.
- 5 Surface treatment - see Planting Plan, sheet 8.
- 6 Expansion joint, (typical).

Site Amenities Legend

QUANTITY	MANUFACTURER	MODEL #	DESCRIPTION
1	Gametime	7703	Loop bicycle rack. Color: Black.
1	Materials, Inc.	Rinconada	Litter receptacle with dark gray integral color #8084/ Davis Colors.
2	Webcoat	B6WBMODWIRE	6' BENCH W/BACK AND ARMS, COLOR: RED

Manufacturer Representatives

Materials, Inc. Leisure Design Systems, Inc.
1-505-867-9035 1-800-543-2232

Webcoat
Gametime

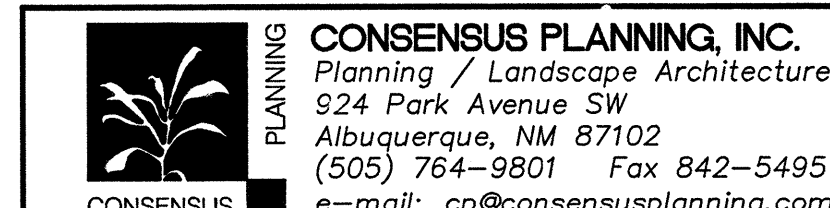
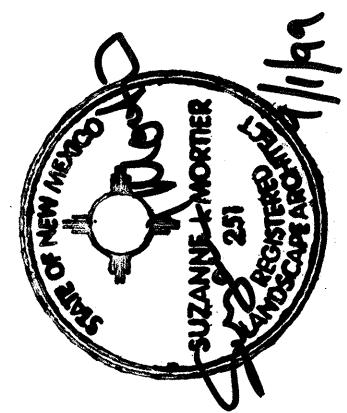
4 LANDSCAPE BOULDER

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

5 BIKE RACK

Scale: VARIES

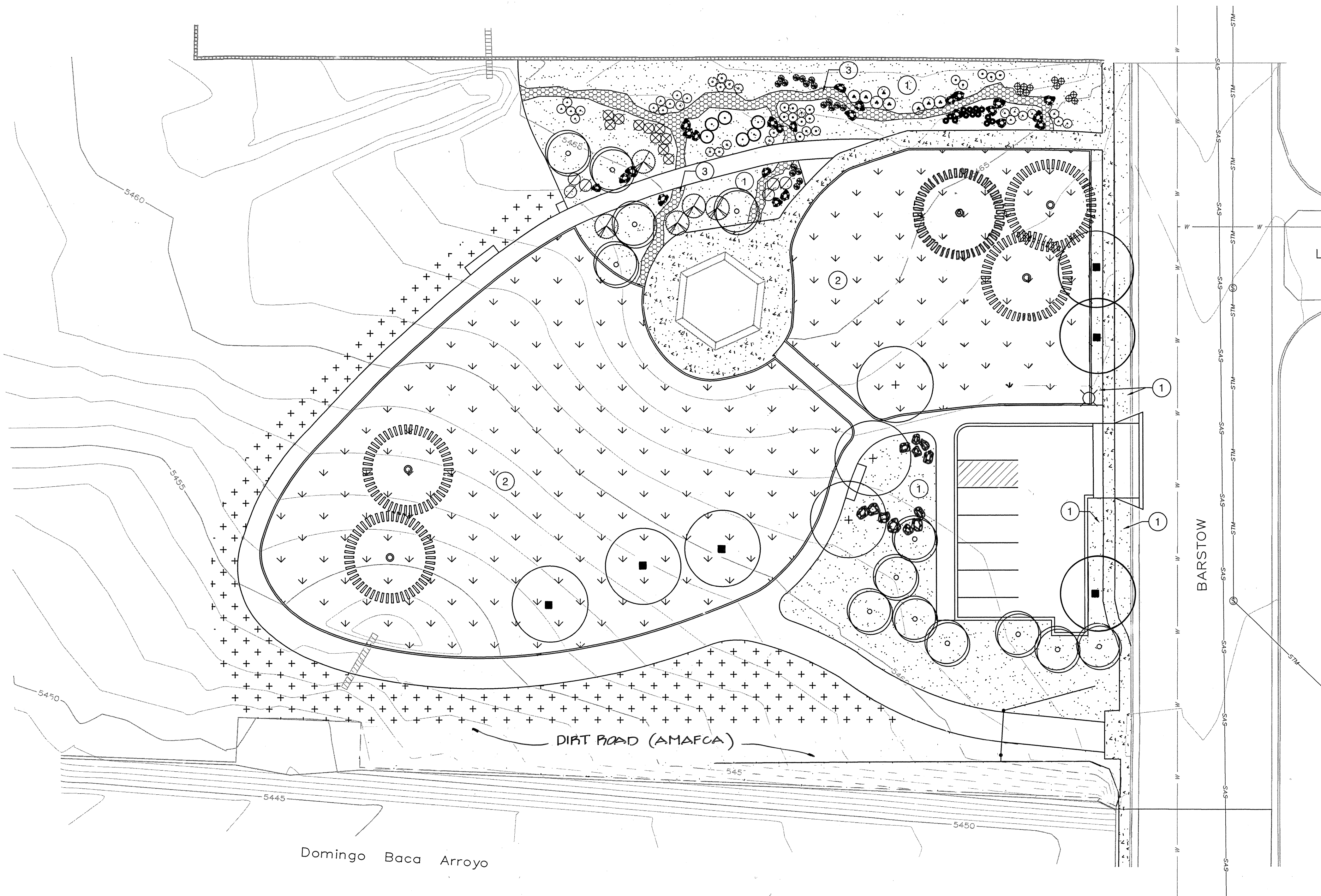
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		CITY OF ALBUQUERQUE		PARKS AND RECREATION DEPARTMENT		TITLE: BARSTOW PARK IMPROVEMENTS SITE DETAILS		DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		Last Design Update		City Project No. 4584		Zone Map No. D-19		Sheet 6 of 10	
CONTRACTOR	DATE	WORK BY	DATE	NO.	BY	DATE	NO.	DATE	BY	DATE	BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE



City Project No. 4584

Zone Map No. D-19

Sheet 6 of 10



PLANT LEGEND

QUANTITY	SYMBOL	BOTANICAL / COMMON NAME	SIZE	REMARKS	WATER
Trees					
13		Chilopsis linearis / Desert Willow	15 gallon	Multi-trunk, 1" min. cal. on three stems, 6'-8' ht., 3' min. sprd.	L
3		Fraxinus americana 'Autumn Purple' / 'Autumn Purple' Ash	24" box	2" min. cal., 12'-14' ht., 3' min. sprd.	M+
6		Gleditsia triacanthos inermis 'Imperial' / 'Imperial' Honey Locust	24" box	2" min. cal., 12'-14' ht., 3' min. sprd.	M+
5		Pinus nigra / Austrian Pine	B&B	2" min. cal., 7'-9' ht., 3' min. sprd.	M
Shrubs					
8		Buddleia davidii nanhoensis / Dwarf Butterfly Bush	5 gallon	2'-3' ht. and sprd., 4' o.c.	M
10		Caryopteris x clandonensis / Blue Mist	5 gallon	2'-3' ht. and sprd., 3' o.c.	M
6		Chrysothamnus nauseosus / Rubber Rabbitbrush 'DWARF'	1 gallon	12"-18" ht. and sprd., 5' o.c.	L
10		Cytisus scoparius 'Moonlight' / 'Moonlight' Scotch Broom	5 gallon	2'-3' ht., 12" min. sprd., 4' o.c.	M
11		Erysimum linifolium / 'Bowles Mauve' Wallflower	1 gallon	12" min. ht. 6' min. sprd., 3' o.c.	M
5		Forestiera neomexicana / New Mexico Olive	5 gallon	2'-3' ht. and sprd., 8' o.c.	M
6		Perovskia atriplicifolia / Russian Sage	1 gallon	12" min. ht. and sprd., 3' o.c.	M
20		Rosmarinus officinalis 'Tuscan Blue' / 'Tuscan Blue' Rosemary	1 gallon	12" min. ht. and sprd., 3' o.c.	L+
16		Salvia greggii / Cherry Sage	1 gallon	6'-12" ht. and sprd., 3' o.c.	M

QUANTITY	SYMBOL	BOTANICAL / COMMON NAME	SIZE	REMARKS	WATER
Ornamental Grasses					
18		Helictotrichon sempervirens / Blue Avena Grass	1 gallon	6'-12" ht. and sprd., 2' o.c.	M
13		Stipa tenuissima / Threadgrass	1 gallon	6'-12" ht. and sprd., 2'-6" o.c.	L+
Turf					
24,896 SF		Turf - Fescue Mix (Curtis & Curtis Football and Playground Mix) See COA Specification Section 1011.		Seed	H
Revegetation Mix					
6,050 SF		Seed per COA Specification Section 1012 with mix specified in 1012.4.1.2 without the saltbush. Add Little Bluestem, Schizachyrium scoparius, 2lbs/acre		Seed	L
BOULDERS					
		Landscape Boulder - 3' min. dimension in any direction Total of 62. See Detail 4/8. Boulders shall be located in the field with Owner's Representative. Boulders shall be Moss Rock or approved equal.			

GENERAL LANDSCAPE NOTES

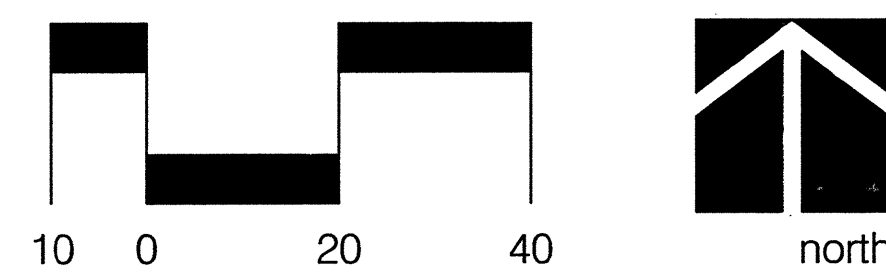
- Prior to beginning work on the project, the Landscape Contractor shall review the project in the field with the Owner's Representative.
- If discrepancies occur between the drawings and the site, the Landscape Contractor shall notify the Owner's Representative for clarification prior to proceeding on that portion of work.
- All planting areas are to have weeds and competitive vegetation removed prior to preparation for planting.
- All existing plant materials shall be protected during construction. Damaged materials shall be replaced in kind at the Contractor's expense.
- Plant quantities are provided for Contractor's convenience only, plans shall take precedence.
- The Owner's Representative shall approve all plant material prior to planting. In addition, the Owner's Representative reserves the right to refuse any plant material deemed unacceptable. The Owner's Representative is to approve any and all substitutions. Contact Jeff Hart, Park Management Division Urban Forester, at 857-8650 for plant inspections.
- It is the Landscape Contractor's responsibility to locate all underground utilities prior to commencement of planting operations. Verify depth prior to construction.
- Planting installation shall be in accordance with all City of Albuquerque standard specifications (Section 1005 - Planting) and details 2714, 2715, 2716, and 2717. Mulch shall be as noted on plans, not as noted in COA details.
- Turf seeding shall be in accordance with City of Albuquerque standard specifications (Section 1011 - Turf Seeding).

LANDSCAPE CONSTRUCTION NOTES

- Mulch with 4" layer of Santa Fe Brown crusher fines over Mirafi weed control fabric.
- Chemical fertilizer shall be applied to turf area prior to seeding at the following elemental weight (pounds) per 1000 square feet:
Nitrogen: 2.5
Phosphate: 2.0
Potassium: 1.0
Magnesium sulfate: 2.0
Elemental Sulfur: 20.0

Organic fertilizer of dry aged, weed free steer manure to a depth of 3", or preparation approved by the owner's representative, shall be spread over turf areas prior to rototilling.

Apply additional 5 lb. Nitrogen per 1000 square feet to turf area once per month during the growing season.
- 2"-4" cobbles, min. 4" depth over Mirafi weed control fabric.



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

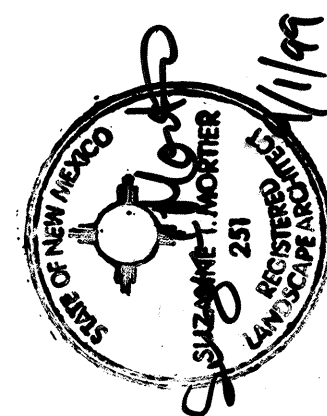
CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT

TITLE: BARSTOW PARK IMPROVEMENTS
PLANTING PLAN, LEGEND, & NOTES

DESIGN REVIEW COMMITTEE: OCT 21 1999
CITY ENGINEER: OCT 21 1999

City Project No. 4584 Zone Map No. D-19 Sheet 8 of 10

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
SURVEYOR'S ACCEPTANCE BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
VERIFICATION BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
DRAWINGS CORRECTED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION	DATE	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



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.

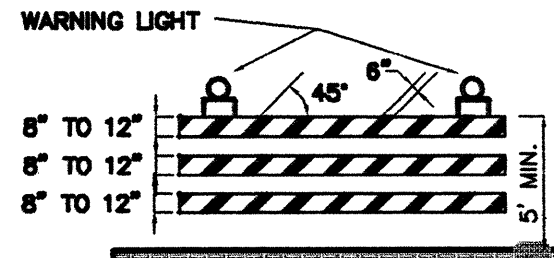
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

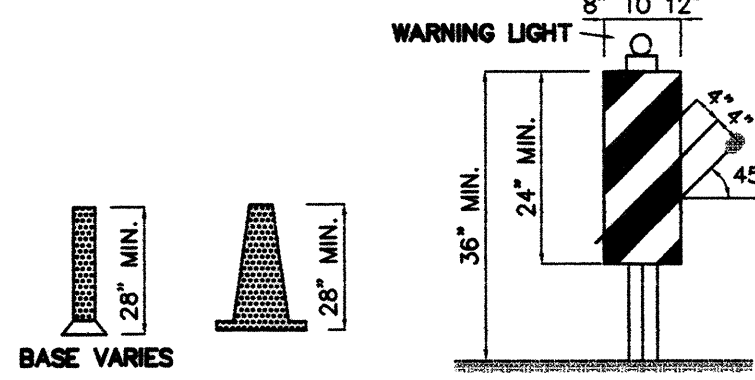
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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.

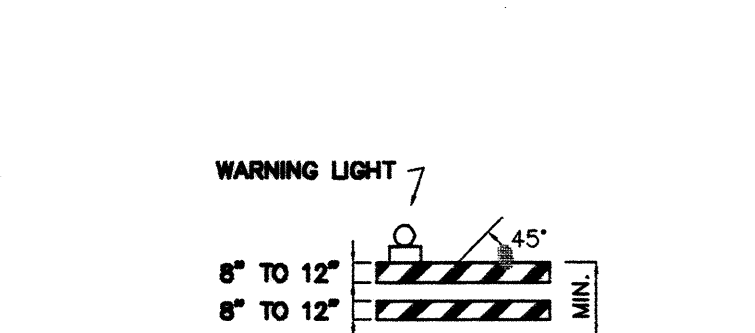
27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.



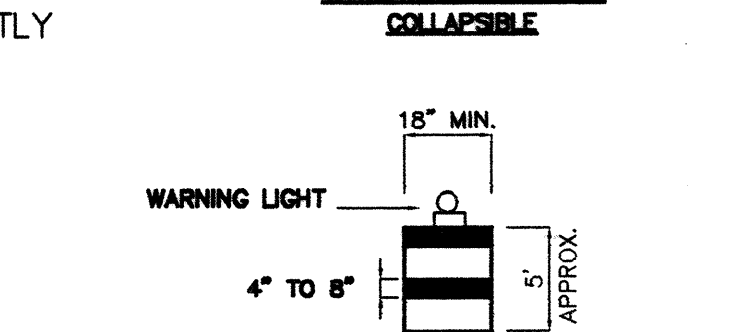
TYPE III BARRICADE



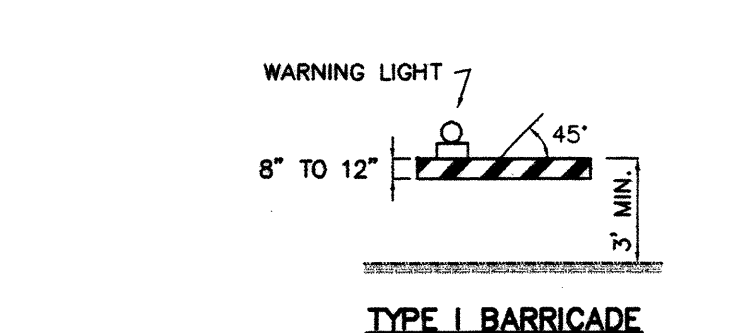
TYPE II BARRICADE COLLAPSIBLE



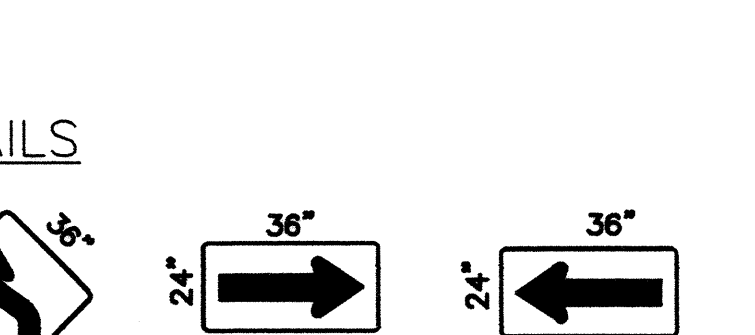
TYPE I BARRICADE COLLAPSIBLE



BARREL



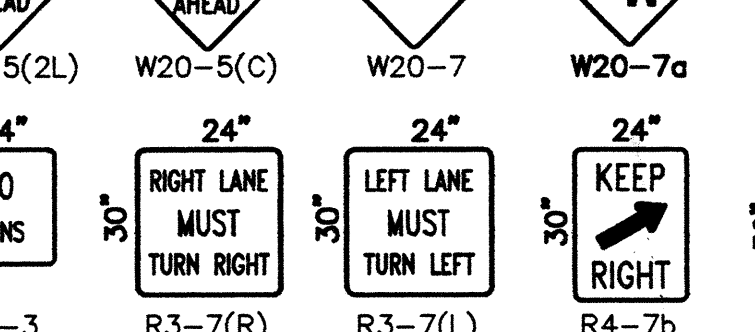
TRAFFIC CONTROL ELEMENT



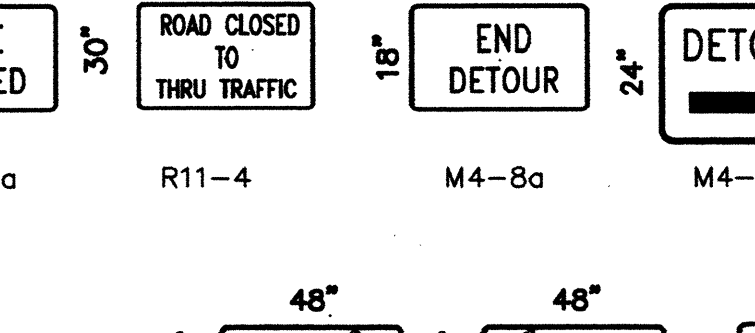
TRAFFIC CONTROL ELEMENT



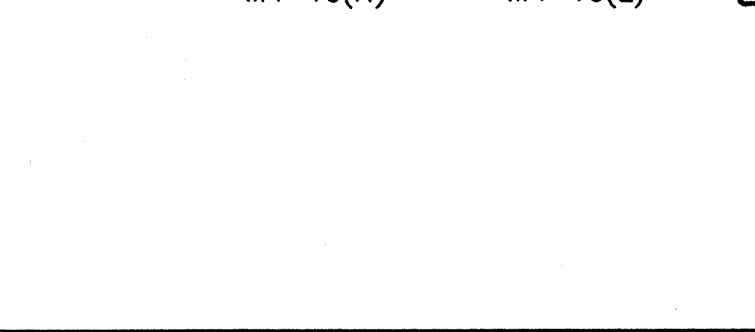
TRAFFIC CONTROL ELEMENT



TRAFFIC CONTROL ELEMENT



TRAFFIC CONTROL ELEMENT



TRAFFIC CONTROL ELEMENT

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

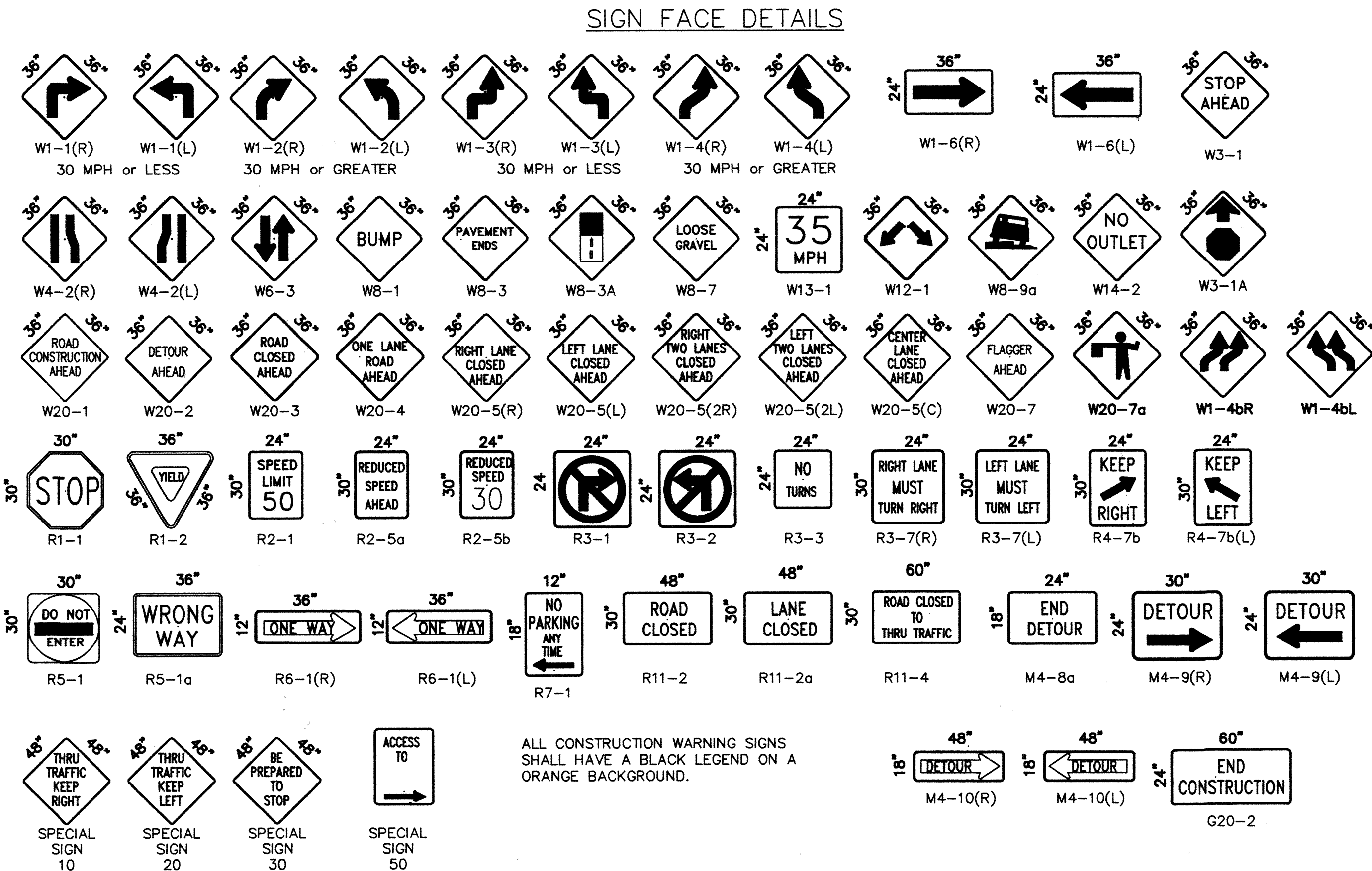
SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	MINIMUM DISTANCE IN FEET FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED 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	L = WS ² / 60
40 MPH OR LESS	L = WS ² / 60
45 MPH OR GREATER	L = W x S
L = TAPER LENGTH W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	



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

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
WORK STARTED BY	DATE	WORK STOPPED BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
FIELD ACCEPTANCE BY	DATE	FIELD CORRECTION BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
DRAWN BY	DATE	CHECKED BY	DATE	NO.	BY	NO.	DATE	NO.	DATE	NO.	DATE
RECORDED BY	DATE	NO.									

PROJECT NO. 199603

Smith Engineering Company

A Full Service Engineering Company

4000 Olympic Boulevard, N.E. Suite 2000 Albuquerque, New Mexico 87110

CITY OF ALBUQUERQUE
PARKS AND RECREATION DEPARTMENT

TITLE: BARSTOW PARK IMPROVEMENTS PROJECT
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

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

City Project No.	Zone Map No.	Sheet	Of
4584	D-19	9	10

