

# CONSTRUCTION DOCUMENTS CLASS II CONSTRUCTION

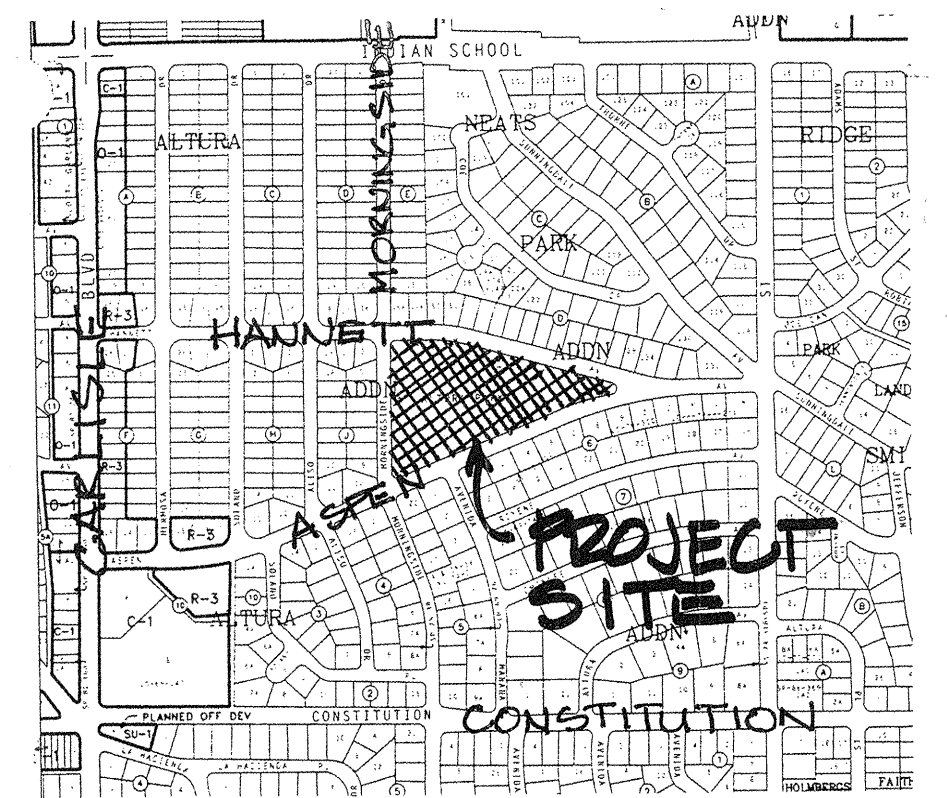
APRIL 23, 1999

## ALTURA PARK PLAY AREA

Aspen Avenue N.E. & Hannett Avenue  
Albuquerque, New Mexico

### CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM

FOR INFORMATION ONLY



VICINITY MAP ZONE ATLAS NO. J-17

#### NOTICE TO CONTRACTORS

1. All work detailed on these plans to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed in accordance with City of Albuquerque Standard Specifications, Public Works Construction - 1986 Edition, as amended through UPDATE #6.
2. Two (2) working days prior to any excavation, contractor must contact Line Locating Service, 260-1990 for location of existing utilities.
3. Prior to construction, the contractor shall verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer or surveyor so that the conflict can be resolved with a minimum amount of delay.
4. Any work affecting an arterial roadway requires twenty-four (24) hour construction.

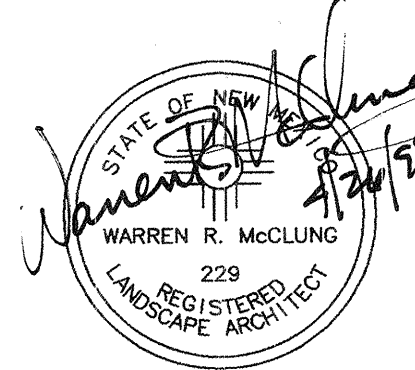
#### THE FOLLOWING ALSO APPLY WHEN CHECKED

- ☐ All utilities and utility service lines shall be installed prior to paving.
- ☒ Backfill compaction shall be according to specified street use.
- ☒ Tack coat requirements shall be determined by the city engineer.
- ☐ Sidewalks and wheelchair ramps within the curb returns shall be constructed wherever a new curb return is constructed.
- ☐ If curb is depressed for a driveway or ramp, it shall be constructed prior to acceptance of the curb and gutter.
- ☒ All storm drainage facilities shall be completed prior to final acceptance.
- ☒ TRAFFIC CONTROL: Five days prior to beginning construction the contractor shall submit to the construction coordination division a detailed construction schedule, two working days prior to construction the contractor shall obtain a barricading permit from the construction coordination division. Contractor shall notify barricade engineer (768-2551) prior to occupying an intersection. see section 19 of the specifications

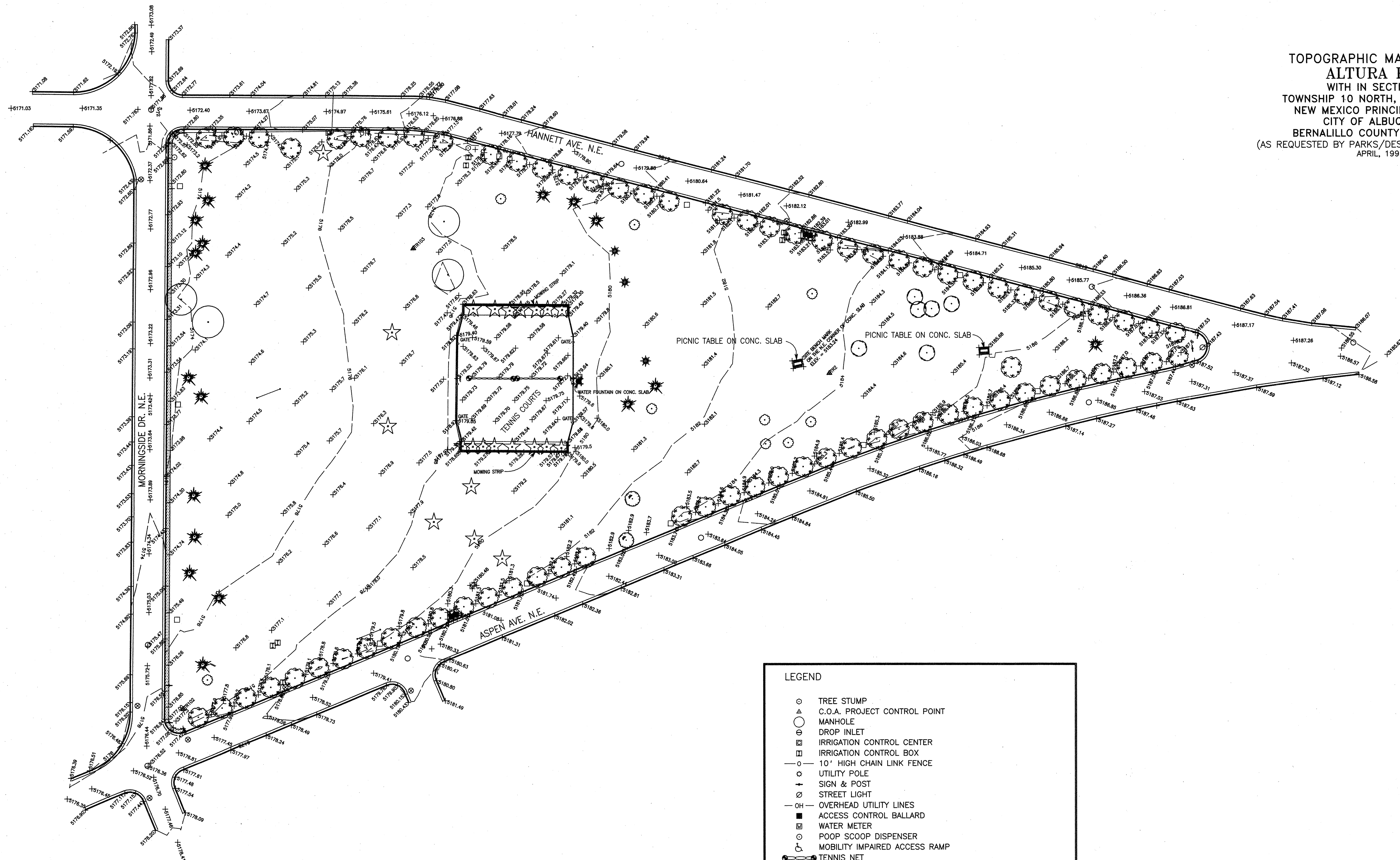
#### SHEET TITLE SHEET NUMBER

COVER SHEET	1 of 13
SITE SURVEY BY CITY	2 of 13
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CITY STANDARD TRAFFIC CONTROL DETAILS	13 of 13

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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	APPROVED FOR CONSTRUCTION	
		DRC Chairman		<i>Billie K. Koolhaas</i>	4-26-99	<i>John C. Coates</i> 4/26/99 City Engineer Date	
		Transportation		<i>R.W. Kame</i>	4-26-99		
		Water/Wastewater		<i>R.W. Kame</i>	4-26-99		
		Hydrology		<i>Warren R. McClung</i>	4/26/99		
		C.I.P.		<i>Warren R. McClung</i>	4/26/99		
Constr. Mngmt.							
Constr. Coord.		<i>John C. Coates</i>	4-26-99				
City Project No.		6126.91		Sheet		1	Of 13





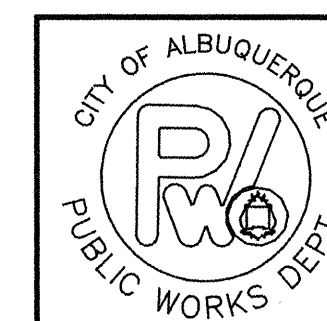
- LEGEND
- |          |   |
|----------|---|
| ○        | TREE STUMP  |
| △        | C.O.A. PROJECT CONTROL POINT                          |
| ○        | MANHOLE   |
| ⊖        | DROP INLET  |
| ⊞        | IRRIGATION CONTROL CENTER                             |
| ⊞        | IRRIGATION CONTROL BOX                                |
| —○—      | 10" HIGH CHAIN LINK FENCE                             |
| ○        | UTILITY POLE  |
| ⊕        | SIGN & POST   |
| ⊘        | STREET LIGHT  |
| —OH—     | OVERHEAD UTILITY LINES                                |
| ■        | ACCESS CONTROL BALLARD                                |
| ⊞        | WATER METER   |
| ○        | POOP SCOOP DISPENSER                                  |
| ⊞        | MOBILITY IMPAIRED ACCESS RAMP                         |
| ●        | TENNIS NET  |
| +9999.99 | SPOT ELEVATION AT TOP BACK OF C & G OR TOP OF ASPHALT |
| +9999.9  | SPOT ELEVATION ON NATURAL GROUND                      |
|          | 3.5' CONCRETE SIDEWALK                                |
| ////     | PARK BENCH  |
| ○—○      | GOAL POST   |
| □        | 3' X 3' TRASH CAN CONCRETE PLATFORM                   |
| ●        | MISC. DECIDUOUS TREE                                  |
| ☆        | LARGE JUNIPER TREE                                    |
| ★        | SMALL JUNIPER TREE                                    |
| ●        | COTTON WOOD TREE                                      |
| ★        | PINE TREE   |
| ●        | ASH TREE  |
| ●        | SYCAMORE TREE   |
| ●        | ELM TREE  |
| =====    | STANDARD CURB & GUTTER                                |

NOTES:

1. Field work was completed on the APRIL 11, 1994 and this topographic map was completed on APRIL 15, 1994.
2. All topographic information as shown hereon meets or exceeds national map accuracy standards.
3. All elevations for this topographic survey are based on Albuquerque Control Survey Monument 11--J17 having an NGVD 1929 ELEV. of 5167.688.
4. THIS IS NOT A BOUNDARY SURVEY, NO BOUNDARY DATA SHOWN IS FROM HEREON.

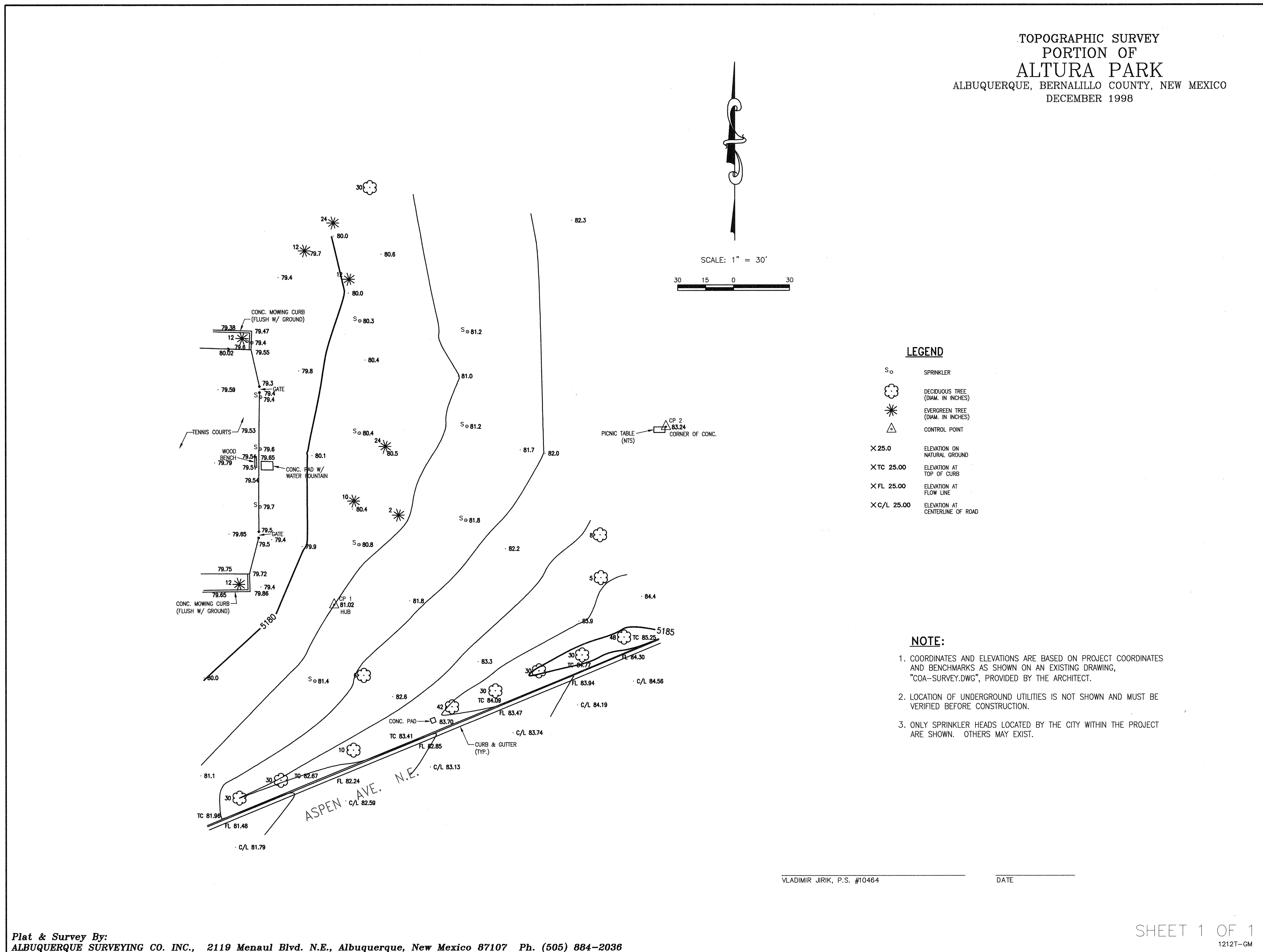
FOR INFORMATION ONLY

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM						
TITLE: ALTURA PARK PLAY AREA CONSTRUCTION DOCUMENTS SITE SURVEY BY CITY						
APRIL 23, 1999						
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE	
CHAIRPERSON			WATER			
TRANSPORTATION			WASTE WATER			
HYDROLOGY						
PARKS						
PROJECT NO. 6126.91			MAP NO. J-17		SHEET 2 OF 13	



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP  
SURVEY SECTION

D:\PROJECTS\9401.02\9401.DWG(9401a-sv-2.dwg Mon Apr 26 09:16:48 1999



Plat & Survey By:  
ALBUQUERQUE SURVEYING CO. INC., 2119 Menaul Blvd. N.E., Albuquerque, New Mexico 87107 Ph. (505) 884-2036

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4830 Juan Tabo Blvd. NE Suite J Albuquerque, NM 87111 (505) 323-5001 FAX (505) 323-5009

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: <b>ALTURA PARK PLAY AREA CONSTRUCTION DOCUMENTS PLAY AREA SURVEY</b>			
Design Review Committee		City Engineer Approval	
APRIL 23, 1999		APRIL 23, 1999	
Last Design Update		Last Design Update	
City Project No. 6126.91		Zone Map No. J-17	
Sheet 3		Of 13	



1. SEE REFERENCED SHEETS FOR DETAIL PLANS.
2. COORDINATE WITH IRRIGATION AND OTHER SYSTEMS TO PLACE REQUIRED SLEEVES UNDER PAVED AREAS AND THROUGH WALLS.
3. SEE SHEET 10 FOR IRRIGATION LEGEND.
4. SEE SHEET 1 FOR GENERAL NOTES.
5. SEE SHEETS 2 AND 3 FOR EXISTING CONDITIONS.

B.O.F.	BOTTOM OF FOOTING	IE OR INV.	INVERT ELEVATION
BB	BOTTOM OF STEP	LF	LINEAR FEET
C.L.	CENTERLINE	LP	LOW POINT
CLR.	CLEAR	MAX.	MAXIMUM
COA	CITY OF ALBUQUERQUE	MIN.	MINIMUM
CONC.	CONCRETE	MS	MOW STRIP
EA	EACH	SIM.	SIMILAR
EL OR ELEV.	ELEVATION	SLD.	SLOPE
EX. OR EXIST.	EXISTING	STD.	STANDARD
EW	EACH WAY	SW	SIDEWALK
DIA	DIAMETER	TA	TOP OF ASPHALT
FL	FLOW LINE	TC	TOP OF CURB
GB	GRADE BREAK	TS	TOP OF STEP
HP	HIGH POINT	TW	TOP OF WALL
		TYPE.	TYPICAL

PROJECT COORDS. | STATE PLANE COORDS.  
COORDINATES USED FOR THIS PROJECT ARE THE SAME COORDS USED FOR COA SURVEY. PROJECT COORDINATE CONVERSION (SEE SURVEY FOR BASIS)  
CONTACT COA SURVEY SECTION FOR CONVERSION TO STATE PLANE COORDS.

PROJECT COORDINATE ON  
WALKWAY CENTER LINE

DETAIL NUMBER

DETAIL REFERENCE

SHEET NUMBER

REFERENCE TO CITY OF ALBUQUERQUE  
STANDARD DETAIL DRAWING NUMBER  
FOUND IN "CITY OF ALBUQUERQUE  
STANDARD SPECIFICATIONS FOR PUBLIC  
WORKS CONSTRUCTION".

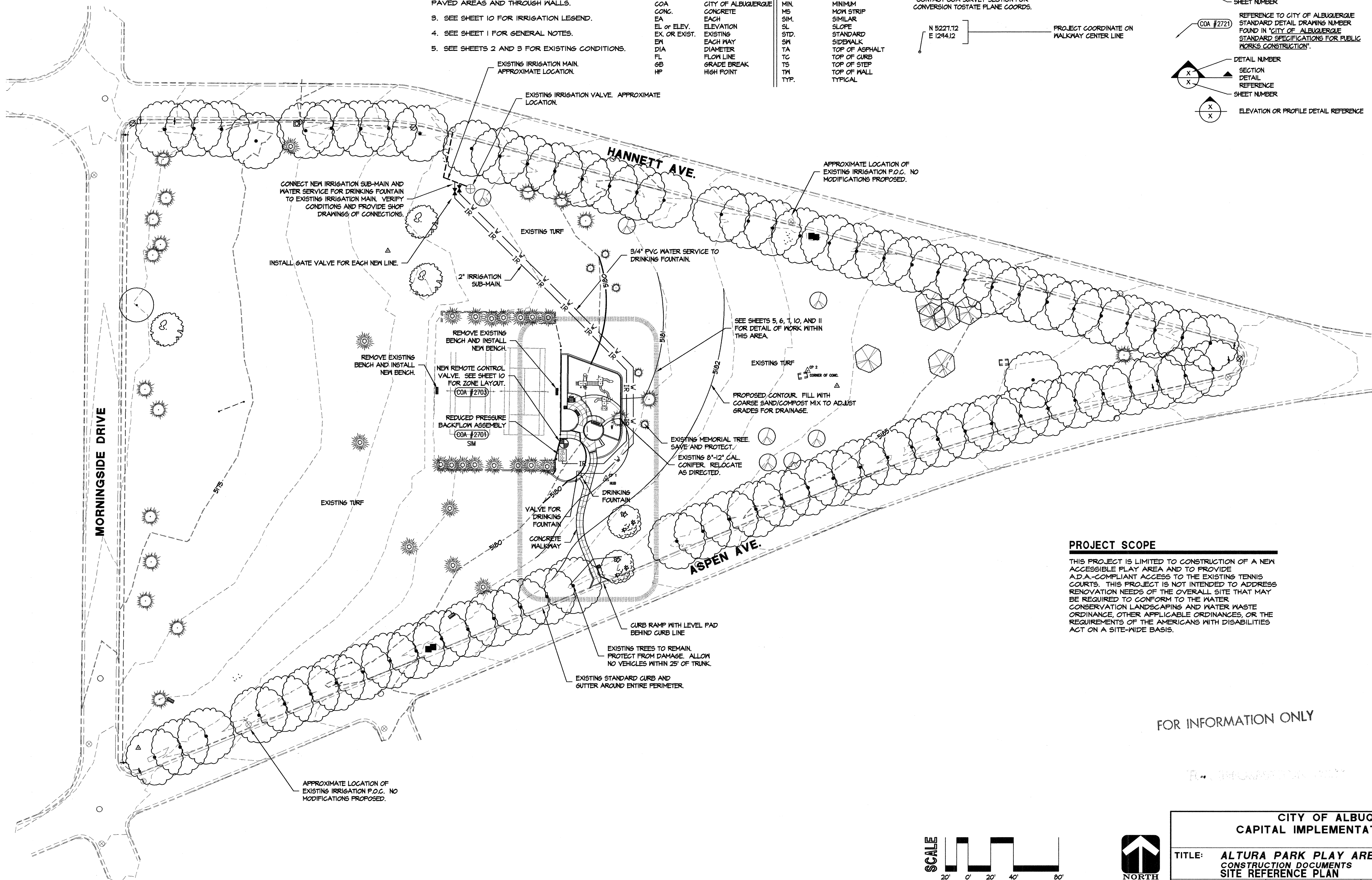
COA #2721

DETAIL NUMBER

SECTION  
DETAIL  
REFERENCE

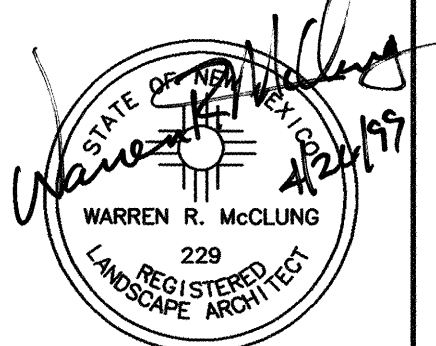
SHEET NUMBER

ELEVATION OR PROFILE DETAIL REFERENCE



THIS PROJECT IS LIMITED TO CONSTRUCTION OF A NEW ACCESSIBLE PLAY AREA AND TO PROVIDE ADA-COMPLIANT ACCESS TO THE EXISTING TENNIS COURTS. THIS PROJECT IS NOT INTENDED TO ADDRESS RENOVATION NEEDS OF THE OVERALL SITE THAT MAY BE REQUIRED TO CONFORM TO THE WATER CONSERVATION LANDSCAPING AND WATER WASTE ORDINANCE, OTHER APPLICABLE ORDINANCES, OR THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ON A SITE-WIDE BASIS.

FOR INFORMATION ONLY

[illegible]

DESIGNED BY: FDS Southwest, Ltd.	DATE: APRIL 1999
DRAWN BY: FDS Southwest, Ltd.	DATE: APRIL 1999
CHECKED BY: FDS Southwest, Ltd.	DATE: APRIL 1999

TITLE:	ALTURA PARK PLAY AREA CONSTRUCTION DOCUMENTS SITE REFERENCE PLAN
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APRIL 23, 1999

Design Review Committee
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e	City Engineer Approval
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City Project No.  
**6126.91**

Zone Map No.

J-17

Sheet	Of
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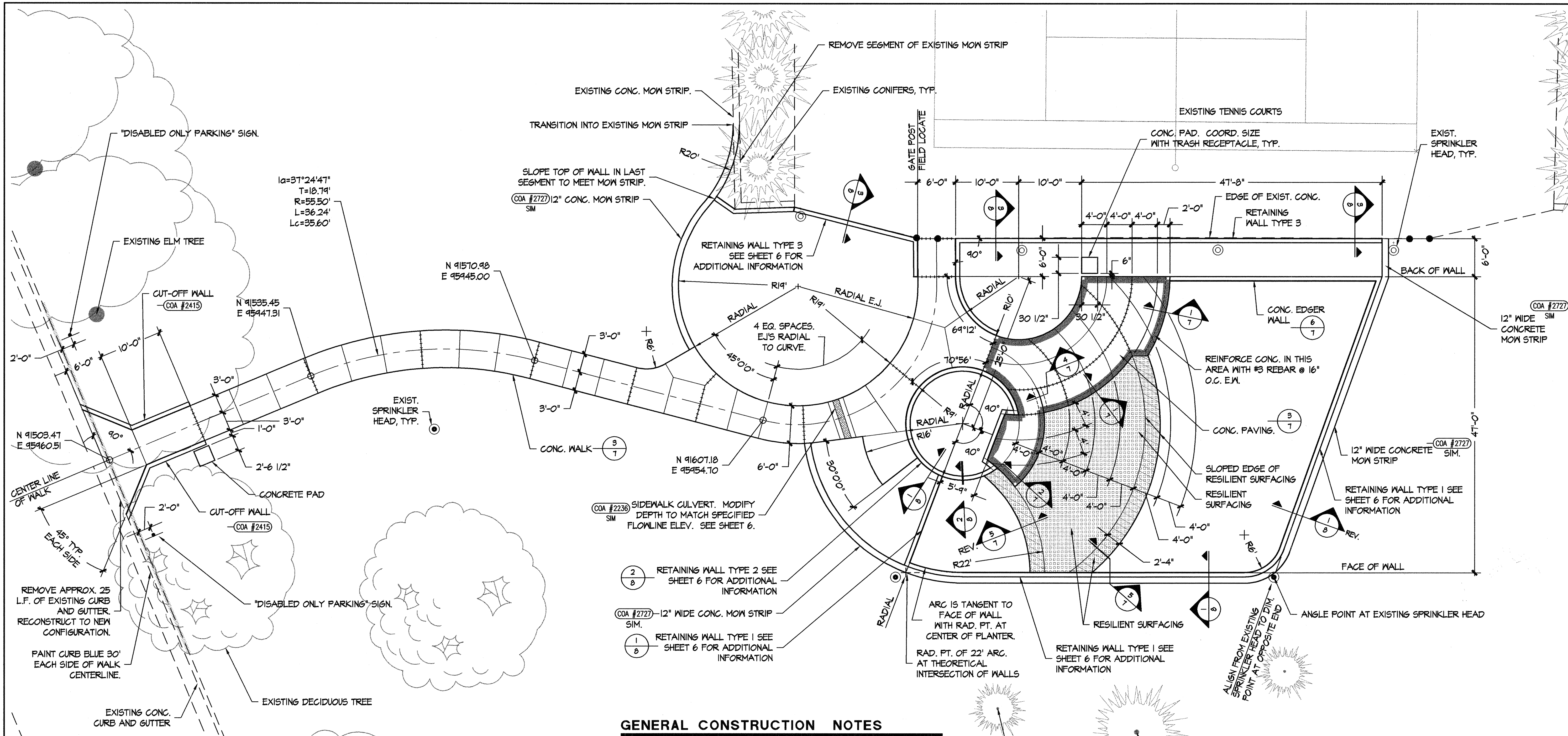
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### RESILIENT SURFACING NOTES

1. RESILIENT PLAY SURFACE: EQUAL TO SPORTFIELD INC.'S SPORTFLOOR TOTLER PIP OR ROBERTSON INDUSTRIES' TOTTURF. EPDM COLOR CAP SHALL BE MIX WITH EQUAL PARTS BLACK, TAN, AND TERRA COTTA.
2. PRODUCT DATA: SUBMIT PRODUCT DATA FOR EACH SPECIFIED ITEM.
3. COLOR SAMPLES: SUBMIT MANUFACTURER'S COLOR SAMPLES FOR RESILIENT SURFACING EPDM COLOR CAP. FINAL COLOR SELECTION SHALL BE BASED ON THESE SAMPLES.
4. SHOP DRAWINGS: MANUFACTURER'S SHOP DRAWINGS FOR THE RESILIENT SURFACING INDICATING THE THICKNESSES OF THE VARIOUS COURSES REQUIRED TO CONFORM TO THE PERFORMANCE REQUIREMENTS OF ASTM F1242 WHEN INSTALLED ON A CONCRETE BASE AS APPLIED TO THE FALL HEIGHTS FOR THE EQUIPMENT UNDER WHICH THE SYSTEM IS TO BE INSTALLED.
5. CONTRACTOR AND WORKERS INSTALLING THE RESILIENT SURFACING SHALL HAVE A MINIMUM OF 5 YEARS VERIFIABLE EXPERIENCE WITH INSTALLATION OF THE SPECIFIED SYSTEM.
6. PERFORMANCE REQUIREMENTS: RESILIENT SURFACING SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT IT WILL PROPERLY ATTENUATE THE IMPACT OF FALLS FROM THE HIGHEST ACCESSIBLE PART OF THE PLAY EQUIPMENT UNDER WHICH IT IS INSTALLED. INSTALLED SYSTEM SHALL CONFORM TO THE PERFORMANCE REQUIREMENTS OF ASTM F1242 AND THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES.
7. VERIFY FALL HEIGHTS ON PLAY EQUIPMENT WITHIN THE RESILIENT SURFACE AREAS. THICKNESS OF IMPACT COURSE SHOWN ON THE DRAWINGS IS A MINIMUM. CONTRACTOR SHALL INSTALL THE IMPACT COURSE TO THE THICKNESS REQUIRED FOR THE SELECTED PRODUCT TO MEET THE PERFORMANCE REQUIREMENTS OF ASTM F1242.
8. FORM AND CONSTRUCT CONCRETE BASE IN CONFORMANCE WITH REQUIREMENTS OF SECTION 0340. ADJUST ELEVATIONS TO ACCOMMODATE ANY MODIFICATION TO SURFACING THICKNESS.
9. PLACE THE IMPACT COURSE AND THE EPDM COLOR CAP TO THE REQUIRED DEPTHS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AS REQUIRED FOR THE COMPLETE SYSTEM TO MEET THE PERFORMANCE REQUIREMENTS OF ASTM F1242.
10. CONTRACTOR SHALL HAVE THE INSTALLED SYSTEM TESTED IN ACCORDANCE WITH ASTM F1242 BY AN APPROVED TESTING COMPANY EXPERIENCED IN SUCH TESTING. SUBMIT CERTIFIED FIELD TEST RESULTS FOR THE DROP TESTS PERFORMED ON THE COMPLETED INSTALLATION.

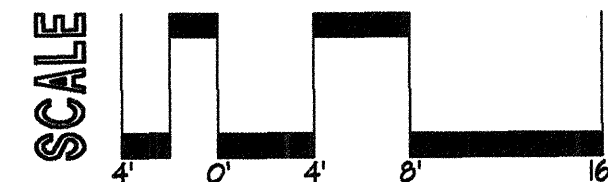
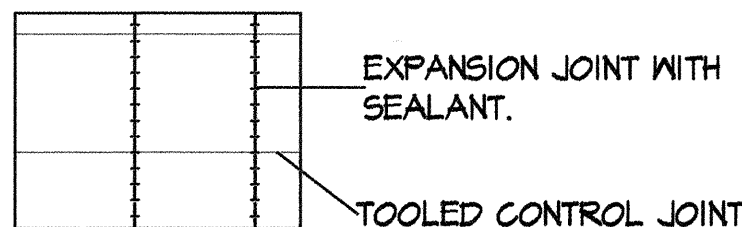
### GENERAL CONSTRUCTION NOTES

1. SEE SHEET 1 FOR GENERAL NOTES.
2. SEE SHEETS 2 AND 3 FOR SITE SURVEY.
3. SEE SHEET 6 FOR ADDITIONAL INFORMATION.
4. SEE SHEET 4 FOR LEGEND.
5. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION.

### CONCRETE CONSTRUCTION NOTES

1. CONCRETE MIX: CONFORM TO CITY STANDARD, 4000 P.S.I. MIX
2. CONCRETE COLOR: ALL EXPOSED CONCRETE SHALL BE INTEGRALLY COLORED WITH DAVIS COLORS SAN DIEGO BUFF. SUBMIT COLOR SAMPLES FOR APPROVAL PRIOR TO ORDERING CONCRETE.
3. WALL FORM MATERIAL: DOUGLAS FIR PLYWOOD SELECT SHEATHING, TIGHT FACE FACTORY COATED GRADE.
4. WALL FORMWORK: CONFORM TO REQUIREMENTS OF ACI 301. CONSTRUCT AND BRACE AS REQUIRED TO MAINTAIN DESIGN LINES AND VERTICAL FACES. ALIGN JOINTS, MAKE WATER TIGHT, AND KEEP FORM JOINTS TO A MINIMUM.
5. WALL FINISH: PATCH TIE HOLES AND MINOR IMPERFECTIONS. RUB PATCHES WITH CARBORUNDUM STONE THEN SAND BLAST LIGHTLY TO ESTABLISH A UNIFORM APPEARANCE.

### PAVING JOINT LEGEND



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CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM	
TITLE: <b>ALTURA PARK PLAY AREA CONSTRUCTION DOCUMENTS LAYOUT PLAN</b>	
APRIL 23, 1999	
Design Review Committee	City Engineer Approval
Last Design Update	
City Project No. <b>6126.91</b>	Zone Map No. <b>J-17</b>
Sheet <b>5</b>	Of <b>13</b>

SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE
		ACS MONUMENT	11-117	CONTRACTOR	
		NGVD 1928 ELEVATION = 5167.688'		WORK STAKED BY	
				INSPECTOR'S APPROVAL	
				FIELD VERIFICATION BY	
				DRAWING CORRECTED BY	
				MICRO-FILM INFORMATION	
				RECORDED BY	
				NO.	

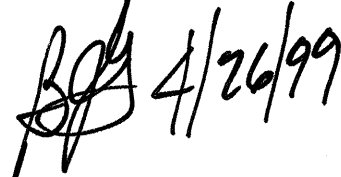

DESIGNED BY: PDS Southwest, Ltd. DATE: APRIL 1999  
DRAWN BY: PDS Southwest, Ltd. DATE: APRIL 1999  
CHECKED BY: PDS Southwest, Ltd. DATE: APRIL 1999





1. SEE SHEET 1 FOR GENERAL NOTES.
2. SEE SHEETS 2 AND 3 FOR SITE SURVEY.
3. SEE SHEET 5 FOR ADDITIONAL INFORMATION.
4. SEE SHEET 4 FOR LEGEND
5. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION

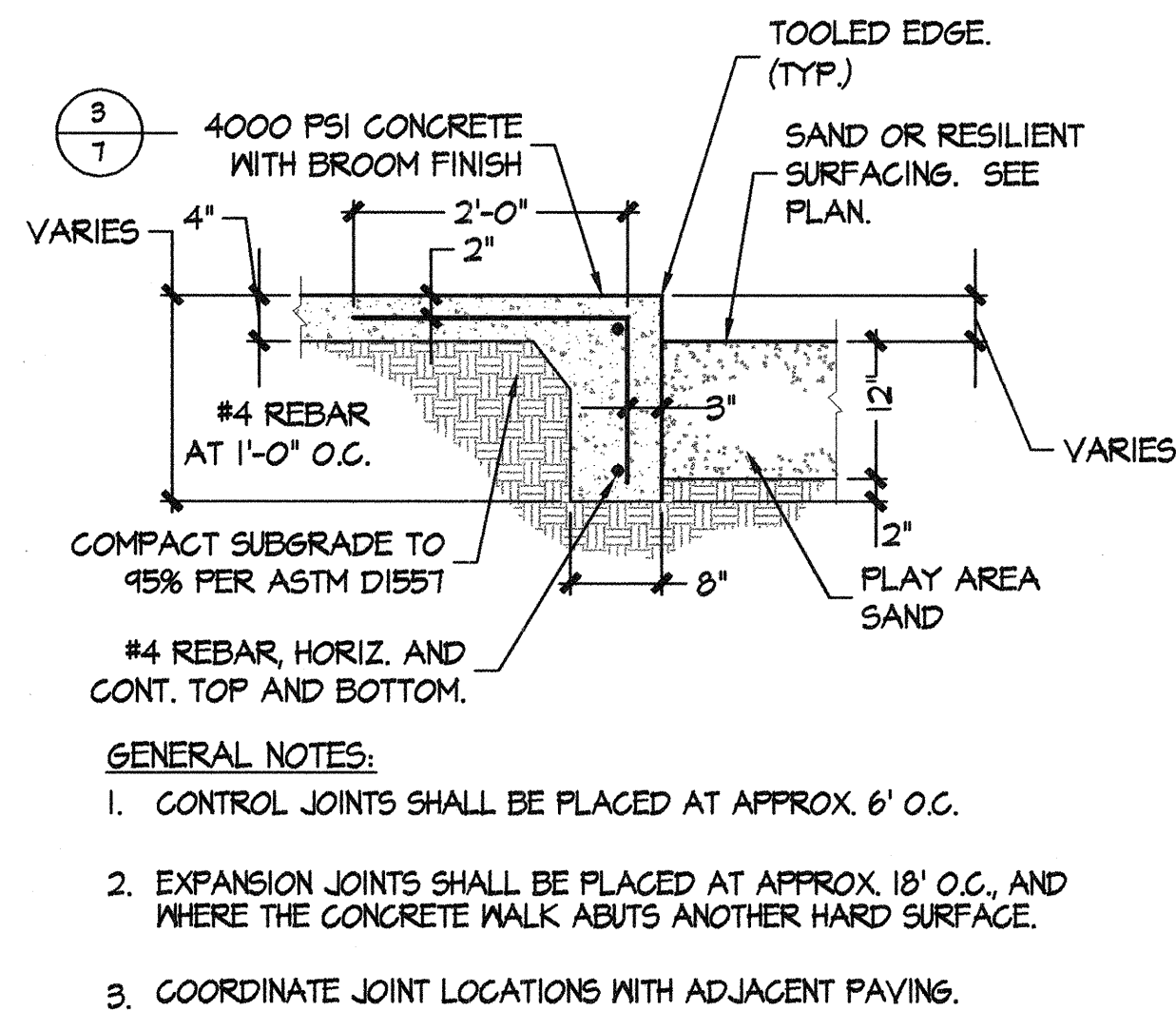
DESIGNED BY: PDS Southwest, Ltd.	DATE: APRIL 1999
DRAWN BY: PDS Southwest, Ltd.	DATE: APRIL 1999
CHECKED BY: PDS Southwest Ltd	DATE: APRIL 1999

<p align="center"><b>CITY OF ALBUQUERQUE</b>  <b>CAPITAL IMPLEMENTATION PROGRAM</b></p>														
<p><b>TITLE:    <b>ALTURA PARK PLAY AREA</b></b>  <b>CONSTRUCTION DOCUMENTS</b>  <b>GRADING PLAN</b></p>														
<p><b>Design Review Committee</b></p>		<p><b>City Engineer Approval</b></p>		<p align="right"><b>APRIL 23, 1999</b></p>										
				<table border="1"> <thead> <tr> <th>MO./DAY/YR</th> <th>MO./DAY/YR</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	MO./DAY/YR	MO./DAY/YR								
MO./DAY/YR	MO./DAY/YR													
<p><b>City Project No.</b>  <b>6126.91</b></p>		<p><b>Zone Map No.</b>  <b>J-17</b></p>		<p><b>Sheet        <b>6</b>        Of        <b>13</b></b></p>										

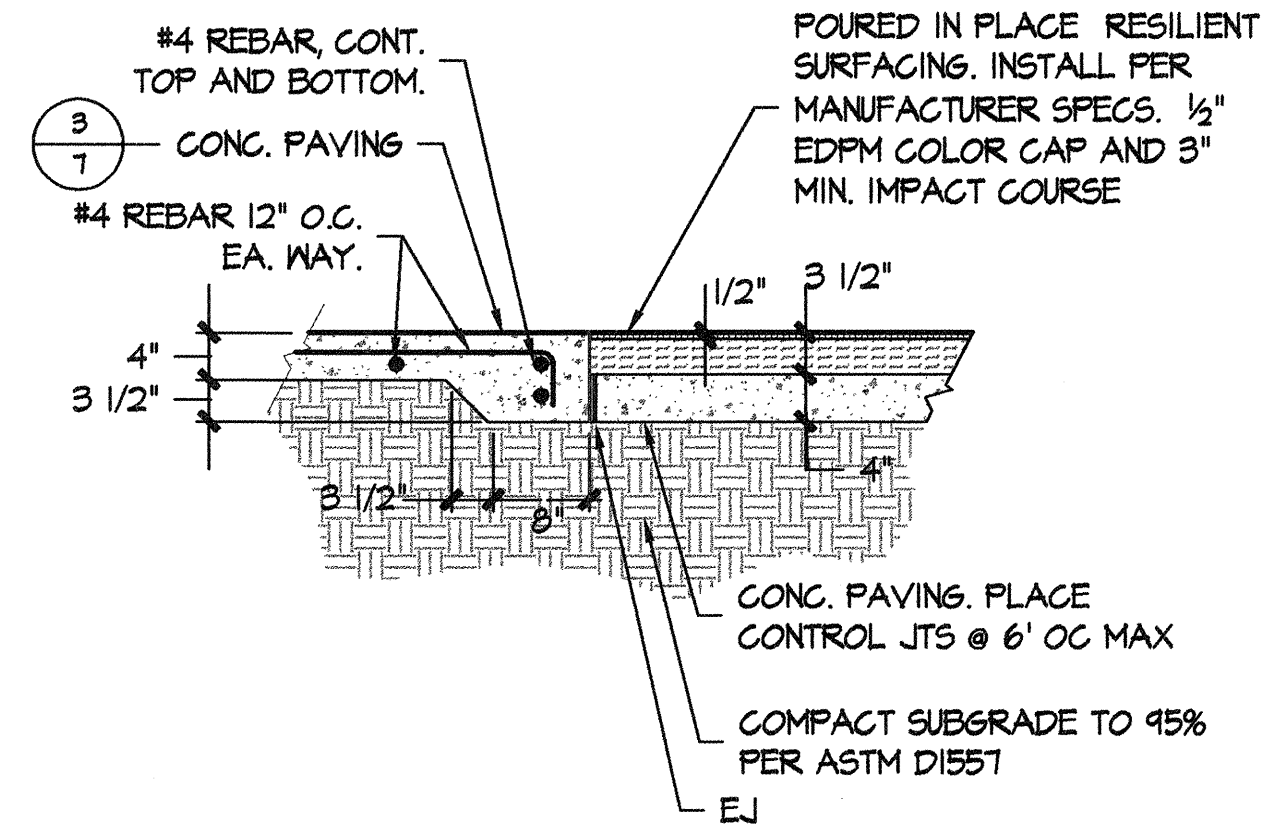


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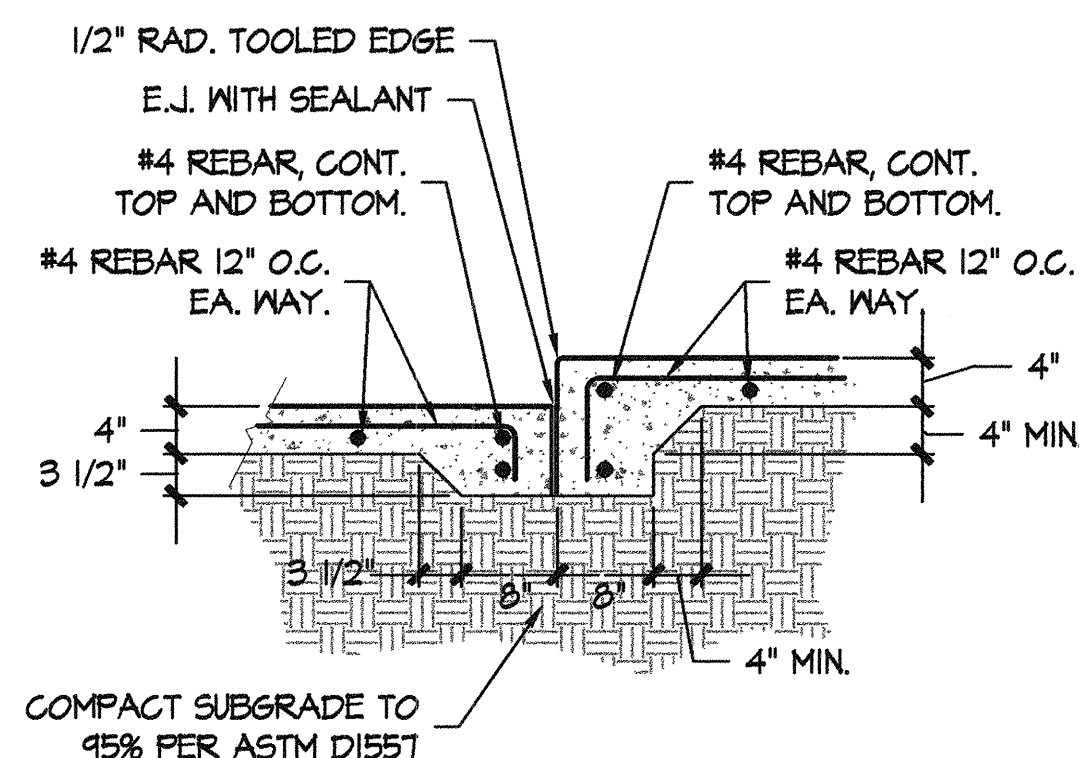




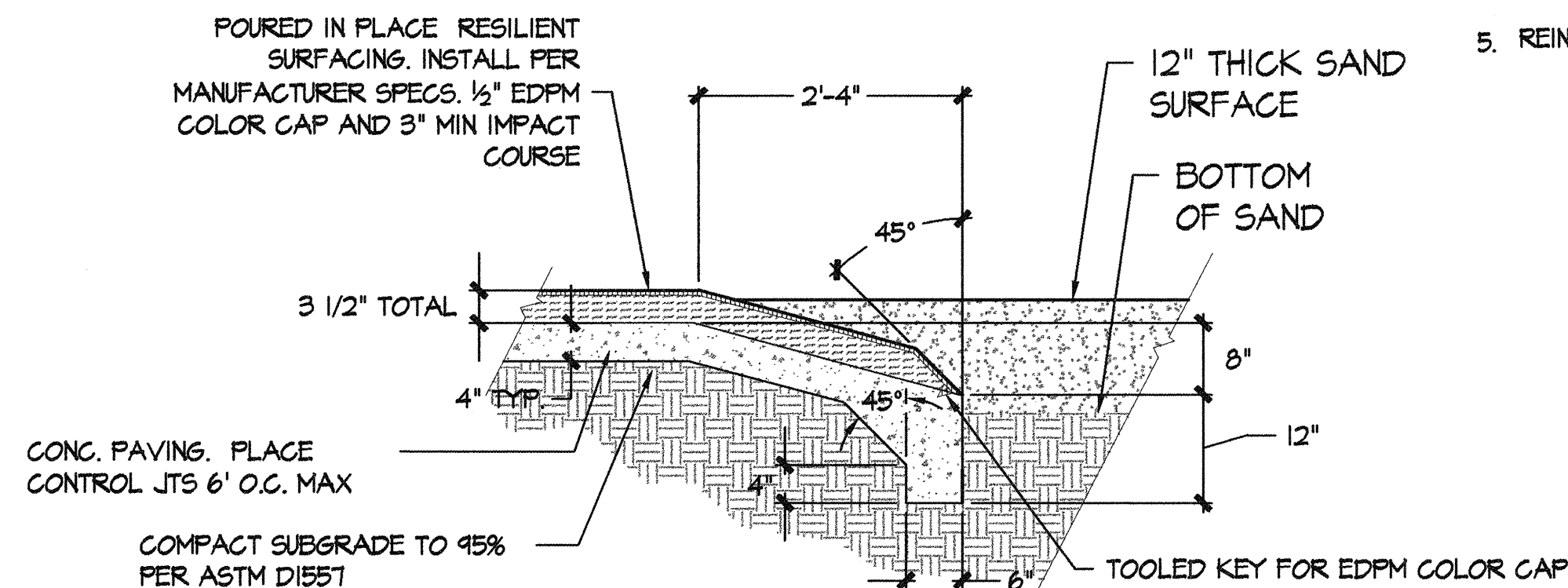
**1 TURN DOWN SLAB AT PLAY AREA SECTION**  
3/4" = 1' - 0"



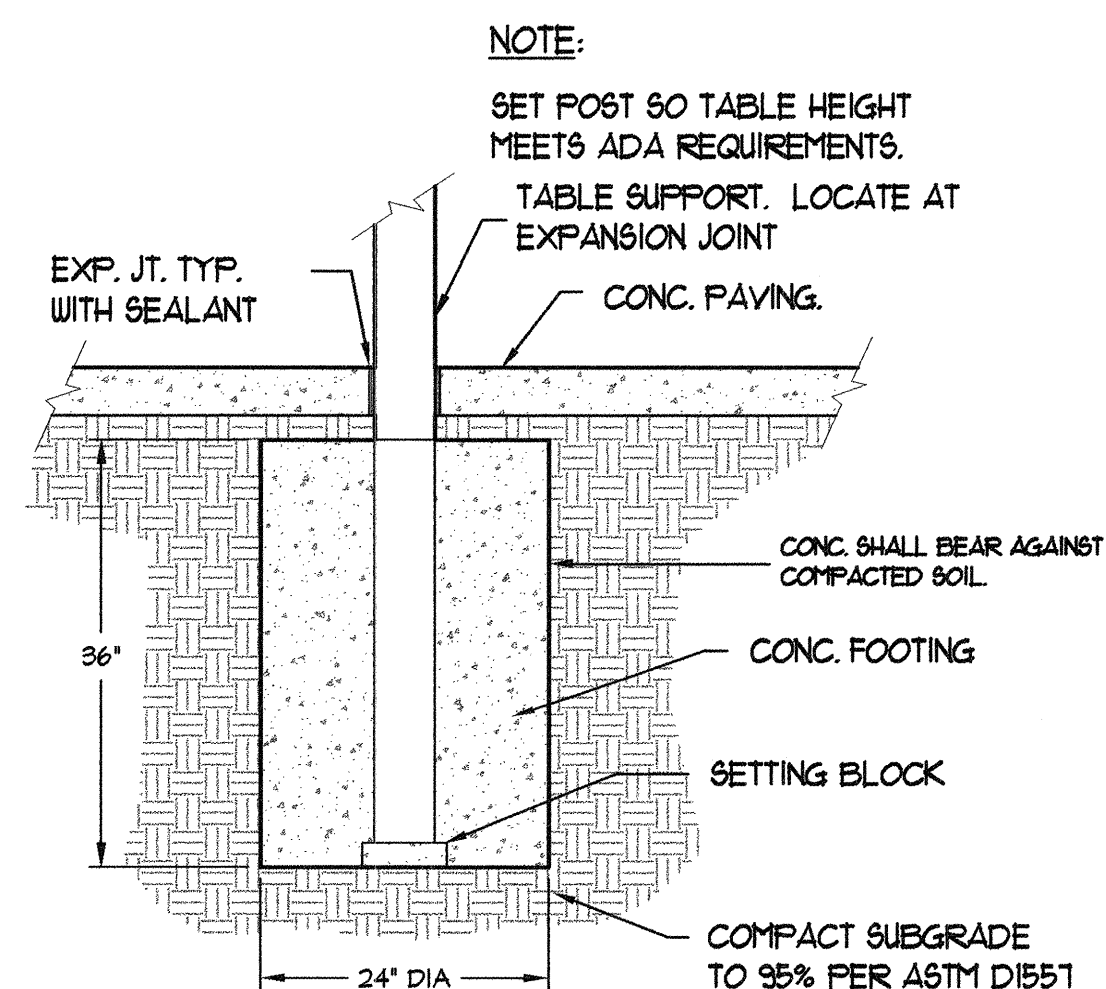
**2 SURFACE TRANSITION SECTION**  
3/4" = 1' - 0"



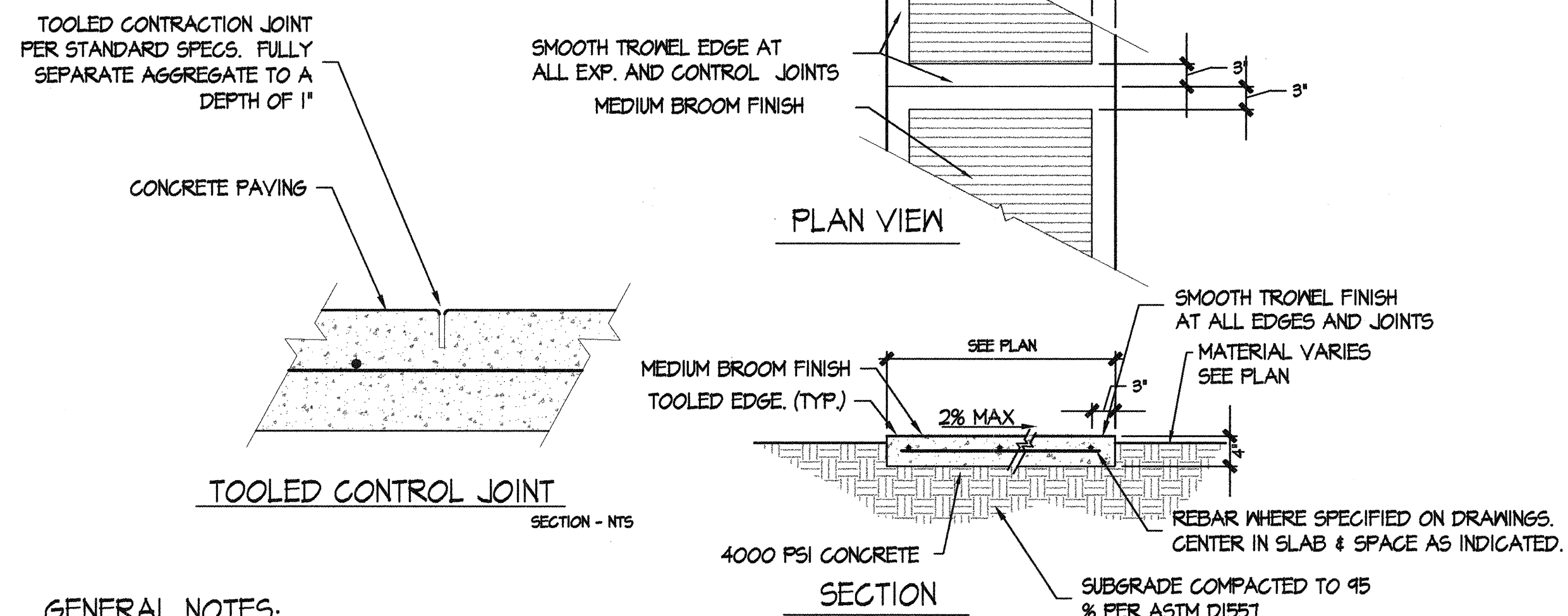
**4 RAMP EDGE SECTION**  
3/4" = 1' - 0"



**5 RESILIENT SURFACE EDGE SECTION**  
3/4" = 1' - 0"

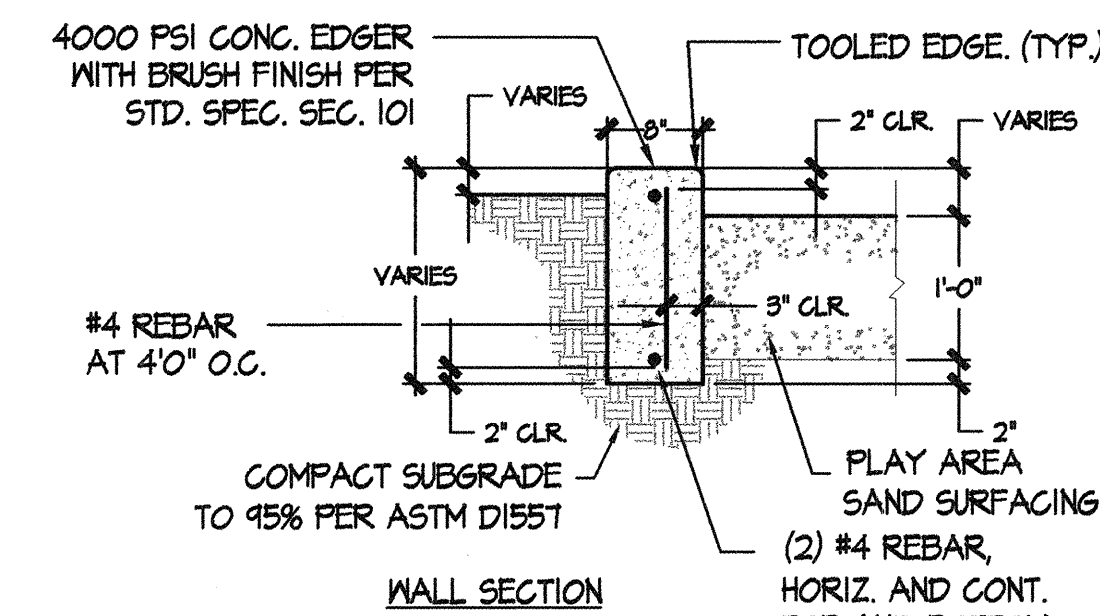
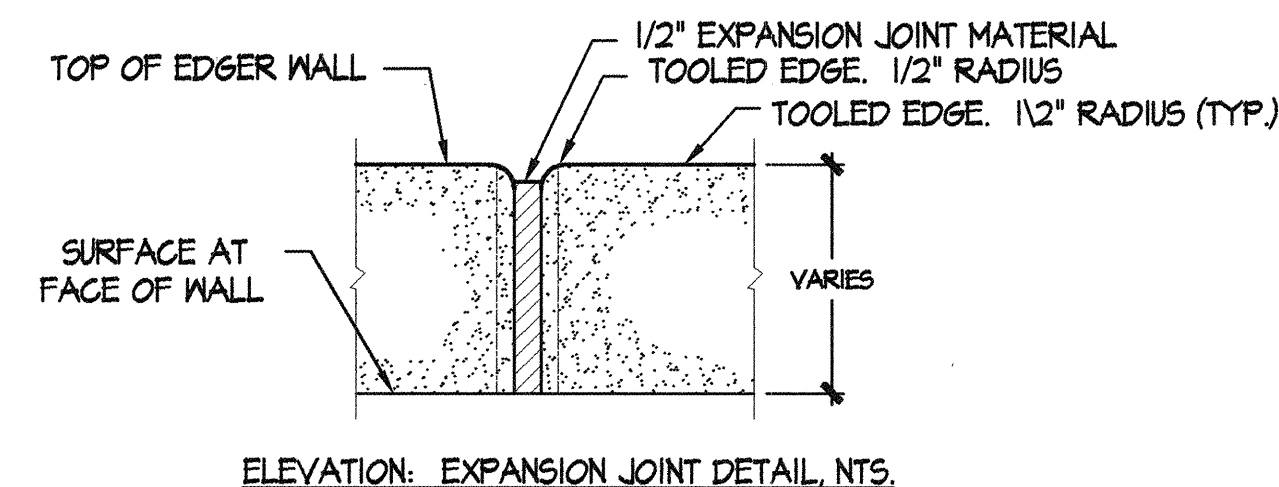


**7 TABLE FOOTING SECTION**  
3/4" = 1' - 0"



- GENERAL NOTES:**
- CONTRACTION JOINTS SHALL BE PLACED EQUALLY SPACED AT APPROX. 6' O.C. ON LINEAR WALKWAY SEGMENTS AS SHOWN ON PLAN. JOINT PATTERN AT WALKWAY INTERSECTIONS SHALL BE AS SHOWN ON PLAN. CONTRACTOR SHALL MARK JOINT LAYOUT AT INTERSECTIONS ON FORMS FOR REVIEW.
  - EXPANSION JOINTS SHALL BE PLACED AT APPROX. 18' O.C., AND WHERE THE CONCRETE WALK ABUTS ANOTHER HARD SURFACE.
  - JOINT PATTERN FOR GENERAL OPEN PAVED AREAS SHALL BE AS SHOWN ON LAYOUT PLANS.
  - DIRECTION OF BROOM FINISH ON LINEAR SEGMENTS OF WALKWAYS SHALL BE TRANSVERSE TO DIRECTION OF TRAVEL. DIRECTION OF BROOM FINISH ON OPEN PAVED AREAS SHALL BE AS SHOWN ON LAYOUT PLANS.
  - REINFORCE PAVING WHERE INDICATED ON THE PLANS.

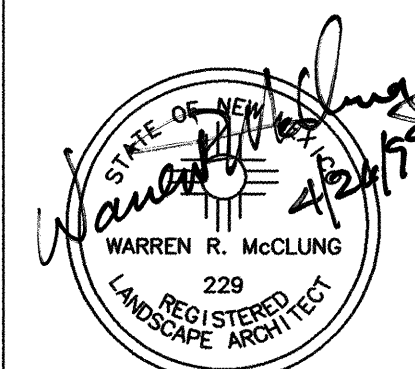
**3 CONCRETE PAVING PLAN AND SECTION**  
3/4" = 1' - 0"



- GENERAL NOTES:**
- CONTROL JOINTS SHALL BE PLACED AT APPROX. 5' O.C.
  - EXPANSION JOINTS SHALL BE PLACED AT APPROX. 20' O.C., AND WHERE THE EDGER WALL ABUTS ANOTHER HARD SURFACE.
  - ALIGN JOINTS WITH ADJACENT PAVING JOINTS.

**6 CONCRETE EDGER WALL SECTION AND ELEVATION**  
3/4" = 1' - 0"

AS BUILT INFORMATION		BENCHMARK		SURVEY INFORMATION		SEAL		REVISIONS / REMARKS		NO. DATE	
CONTRACTOR	DATE:	ACS MONUMENT 11-J17	NGVD 1929 ELEVATION = 5167.688'	FIELD NOTES	BY	DATE	NO.	DATE	REMARKS	NO.	DATE
WORK STAKED BY	DATE:										
INSPECTOR'S APPROVAL	DATE:										
FIELD VERIFICATION BY	DATE:										
DRAWING CORRECTED BY	DATE:										
MICRO-FILM INFORMATION	DATE:										
RECORDED BY	DATE:										
NO.											

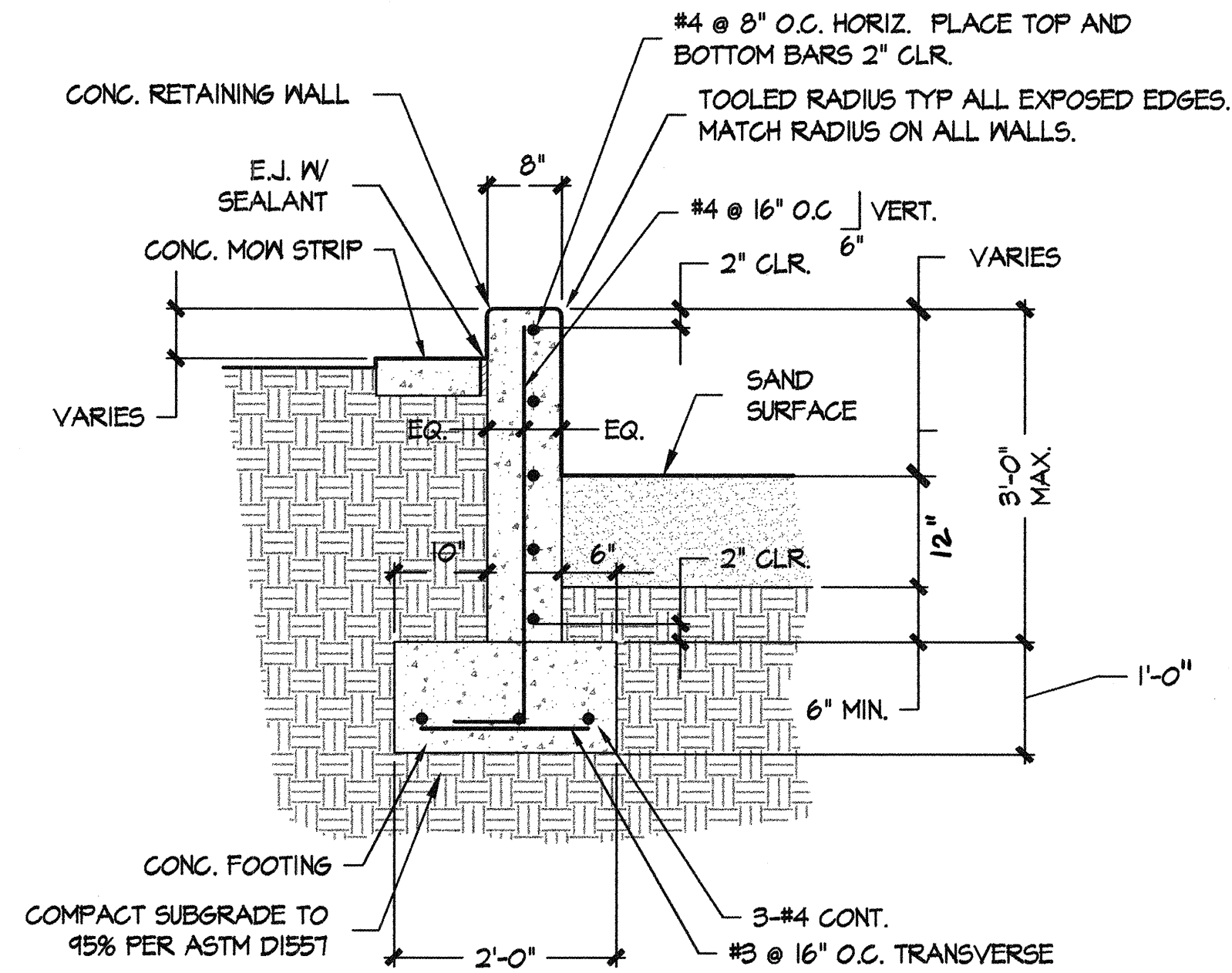


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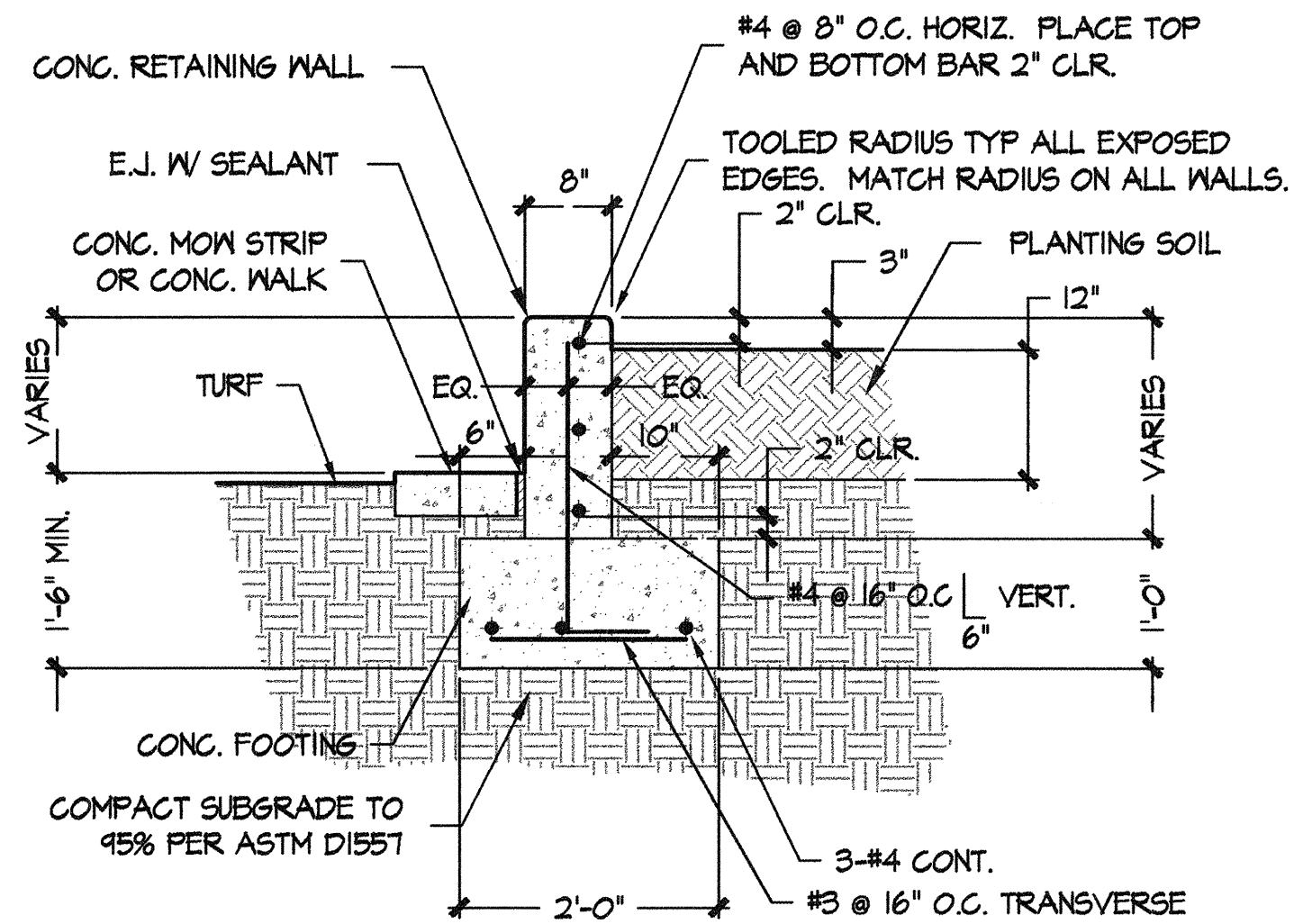
CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: <b>ALTURA PARK PLAY AREA</b>			
CONSTRUCTION DOCUMENTS CONSTRUCTION DETAILS			
Design Review Committee	City Engineer Approval	MO. / DAY / YR.	MO. / DAY / YR.
Last Design Update		DATE: APRIL 1999	DATE: APRIL 1999
City Project No. <b>6126.91</b>		Zone Map No. <b>J-17</b>	Sheet <b>7</b> Of <b>13</b>

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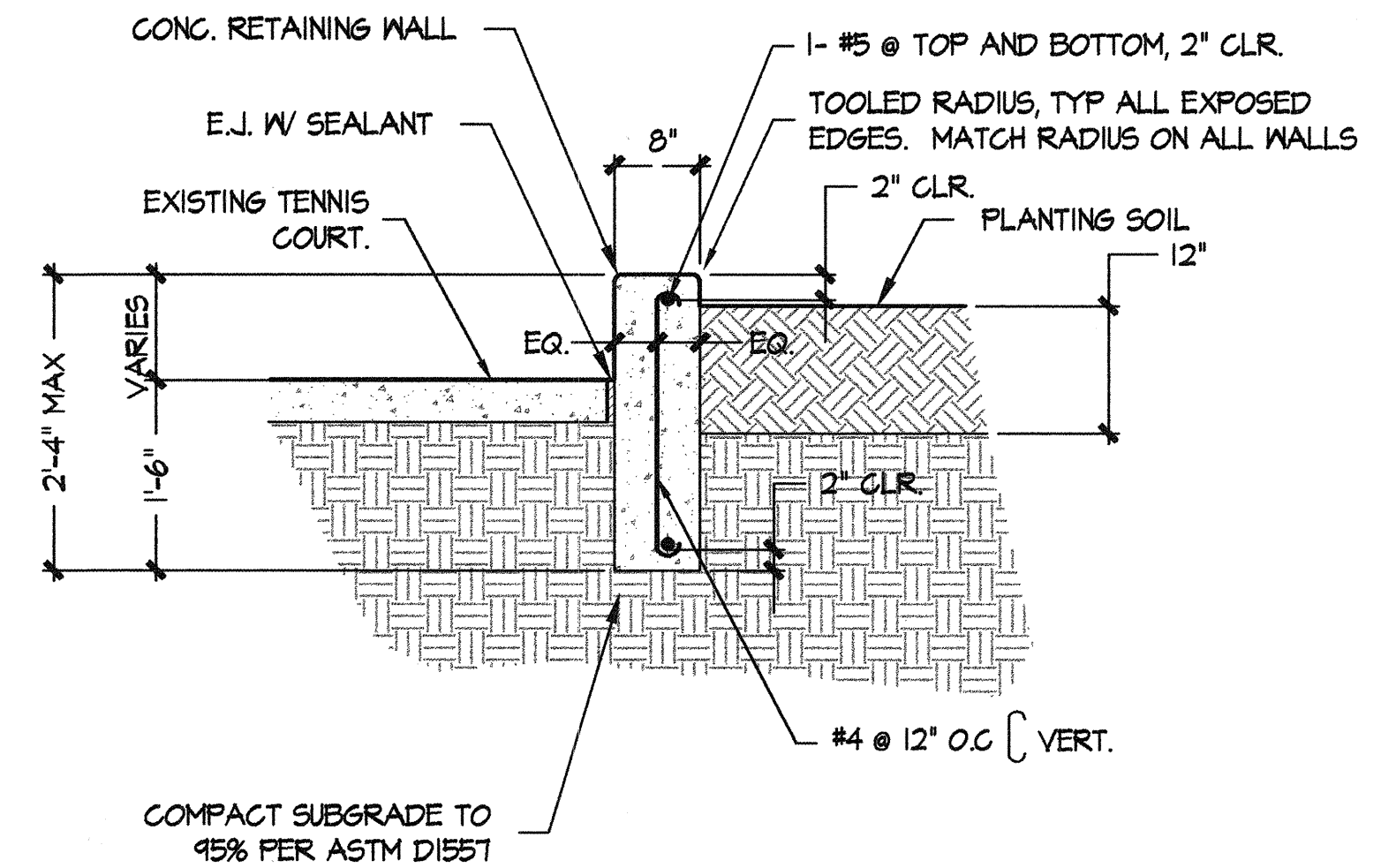




**1**  
**8** **CONC. RETAINING WALL TYPE 1**  
**SECTION** 3/4" = 1' - 0"

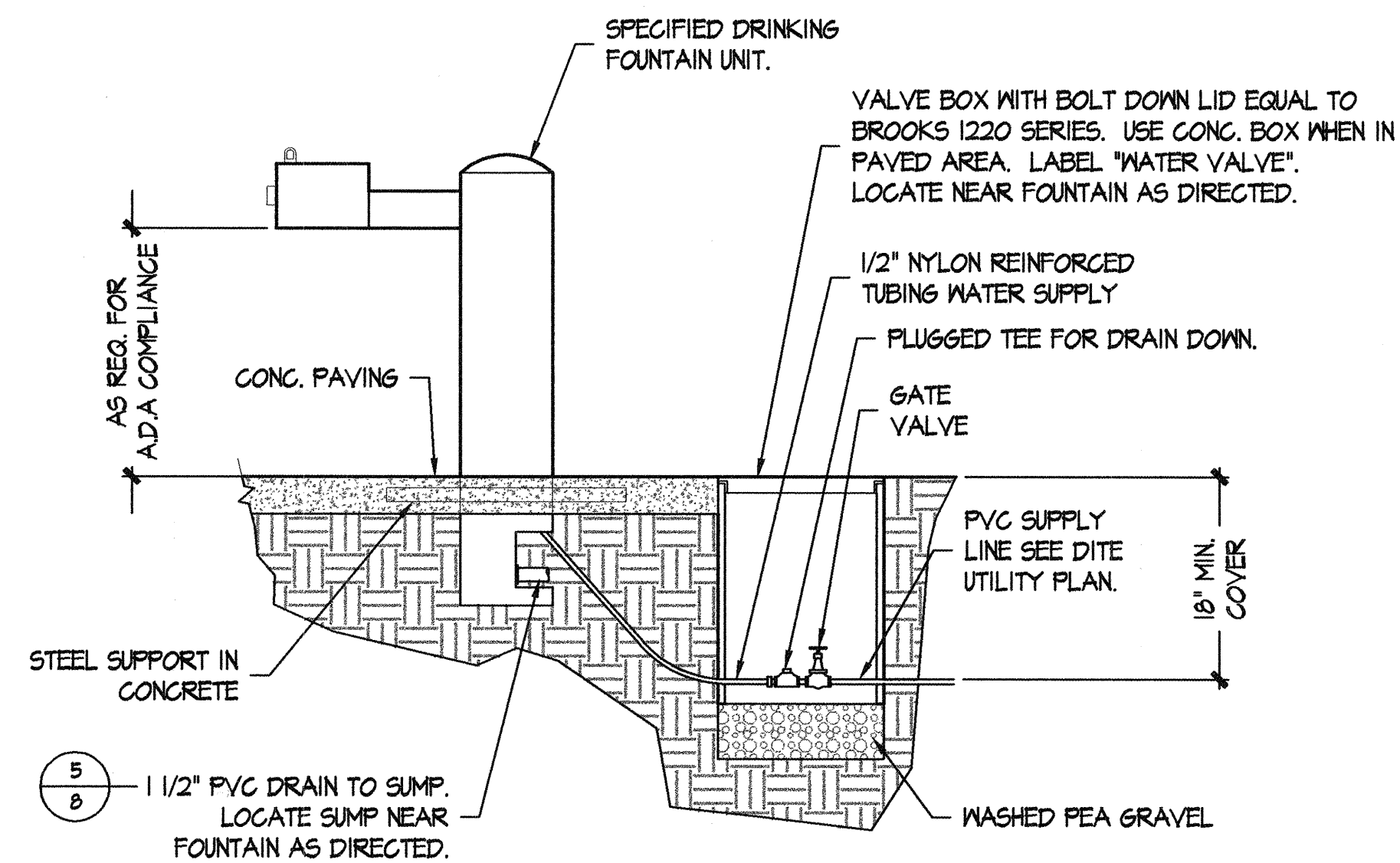
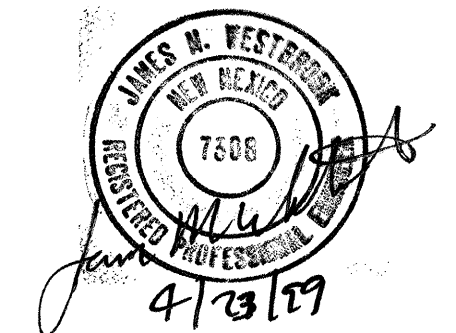


**2**  
**8** **CONC. RETAINING WALL TYPE 2**  
**SECTION** 3/4" = 1' - 0"

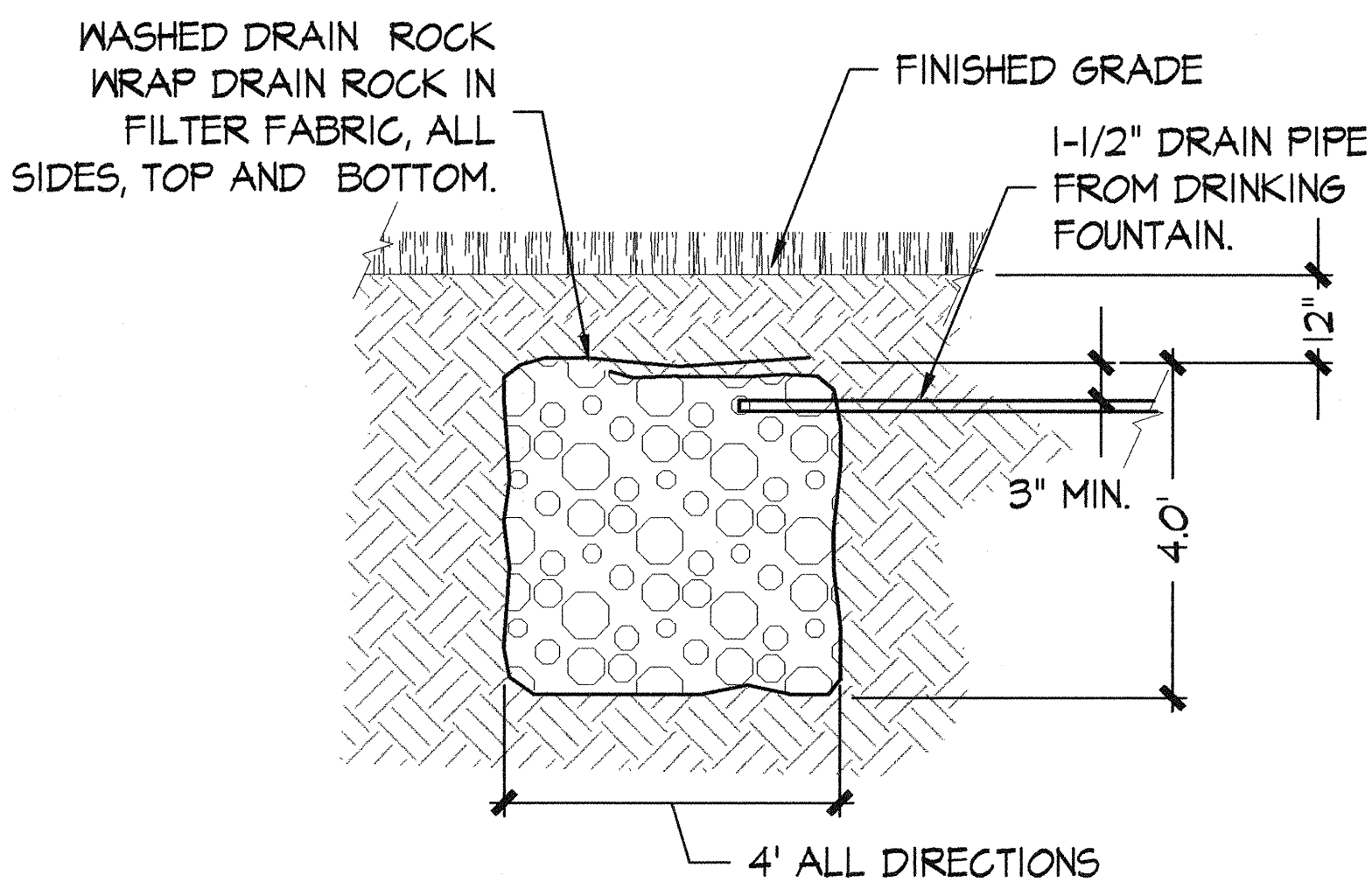


**3**  
**8** **CONC. RETAINING WALL TYPE 3**  
**SECTION** 3/4" = 1' - 0"

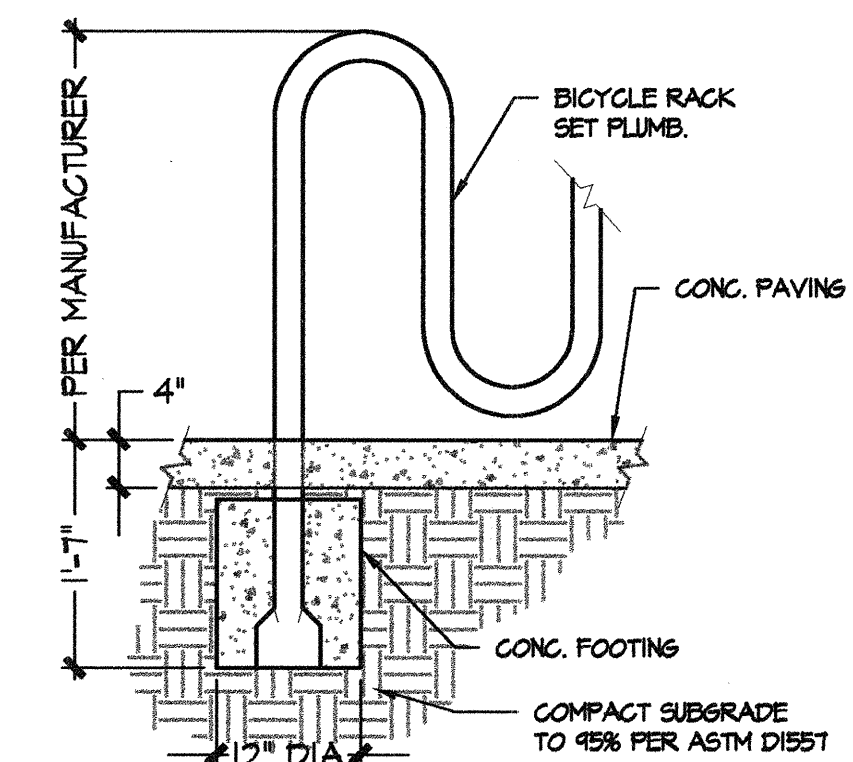
ENGINEER'S STAMP FOR  
DETAILS 1, 2, AND 3 ONLY



**4**  
**8** **DRINKING FOUNTAIN**  
**SECTION** 3/4" = 1' - 0"



**5**  
**8** **SUMP**  
**SECTION** NTS



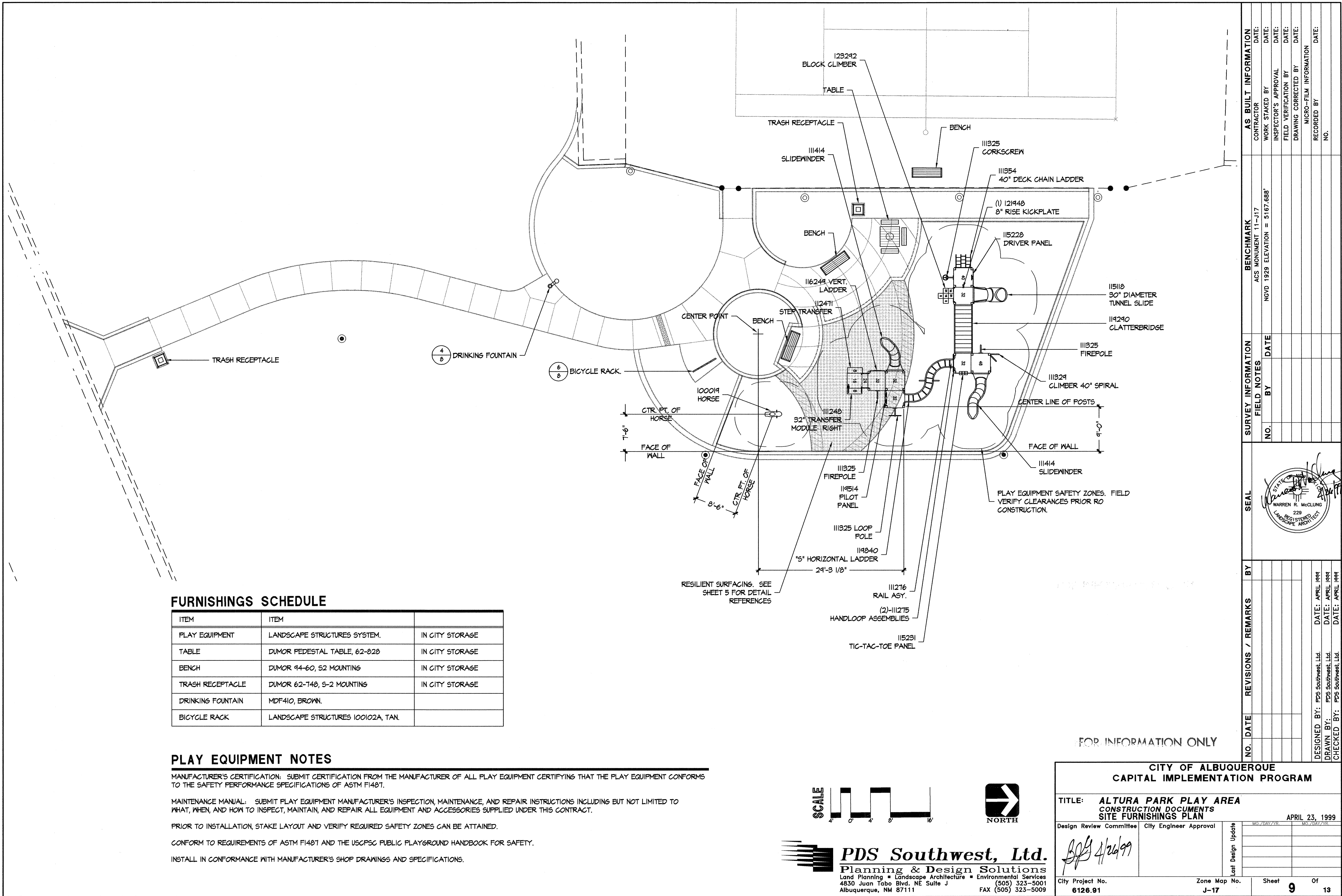
**6**  
**8** **BIKE RACK**  
**SECTION** NTS

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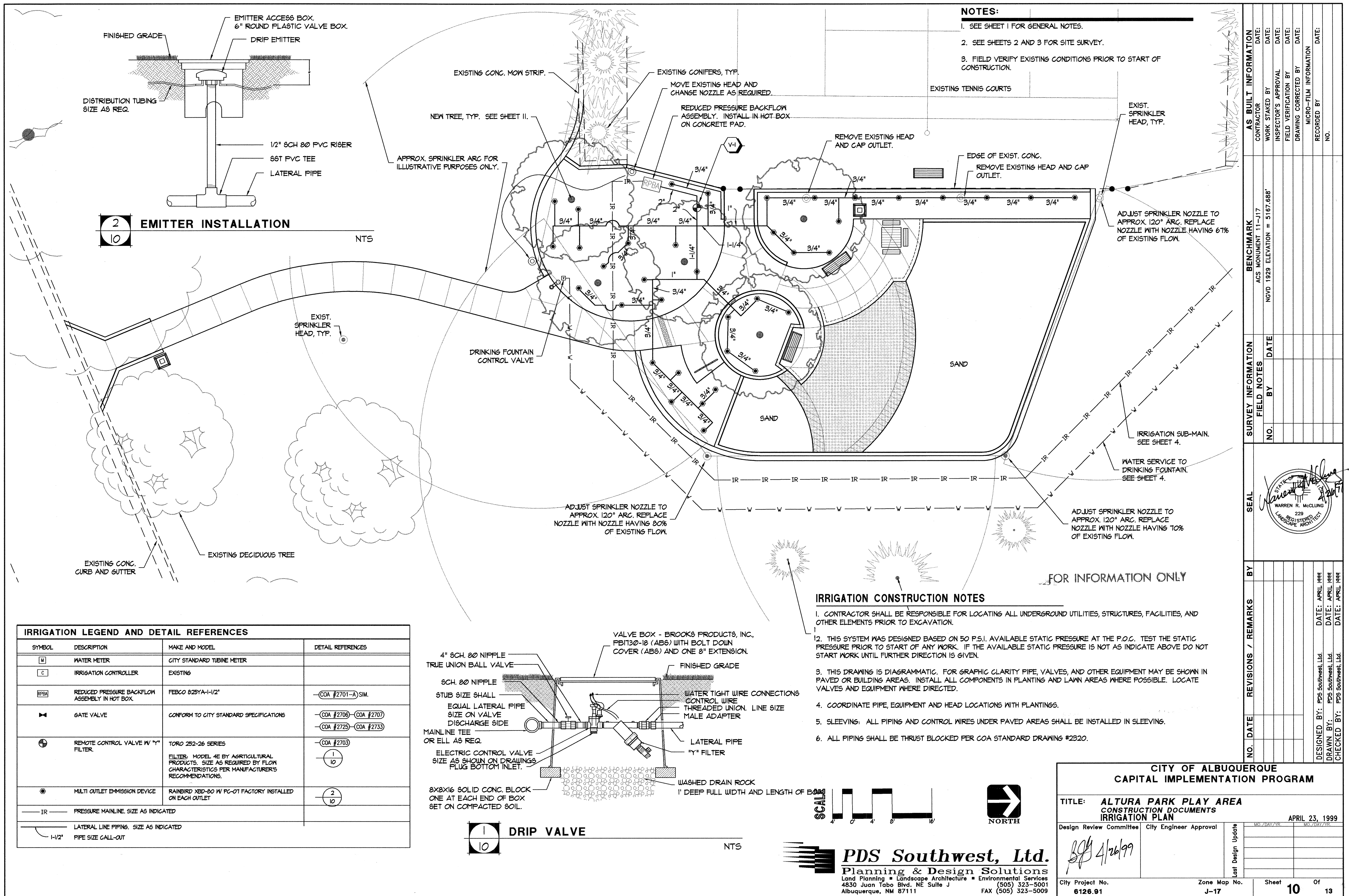
CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM	
TITLE: <b>ALTURA PARK PLAY AREA</b>	
CONSTRUCTION DOCUMENTS	
CONSTRUCTION DETAILS	
APRIL 23, 1999	
Design Review Committee	City Engineer Approval
DESIGNED BY: PDS Southwest, Ltd.	DATE: APRIL 1999
DRAWN BY: PDS Southwest, Ltd.	DATE: APRIL 1999
CHECKED BY: PDS Southwest, Ltd.	DATE: APRIL 1999
City Project No.	Zone Map No.
6126.91	J-17
Sheet	Of
8	13

**PDS Southwest, Ltd.**  
Planning & Design Solutions  
Land Planning ■ Landscape Architecture ■ Environmental Services  
4830 Juan Tabo Blvd. NE Suite J (505) 323-5001  
Albuquerque, NM 87111 FAX (505) 323-5009

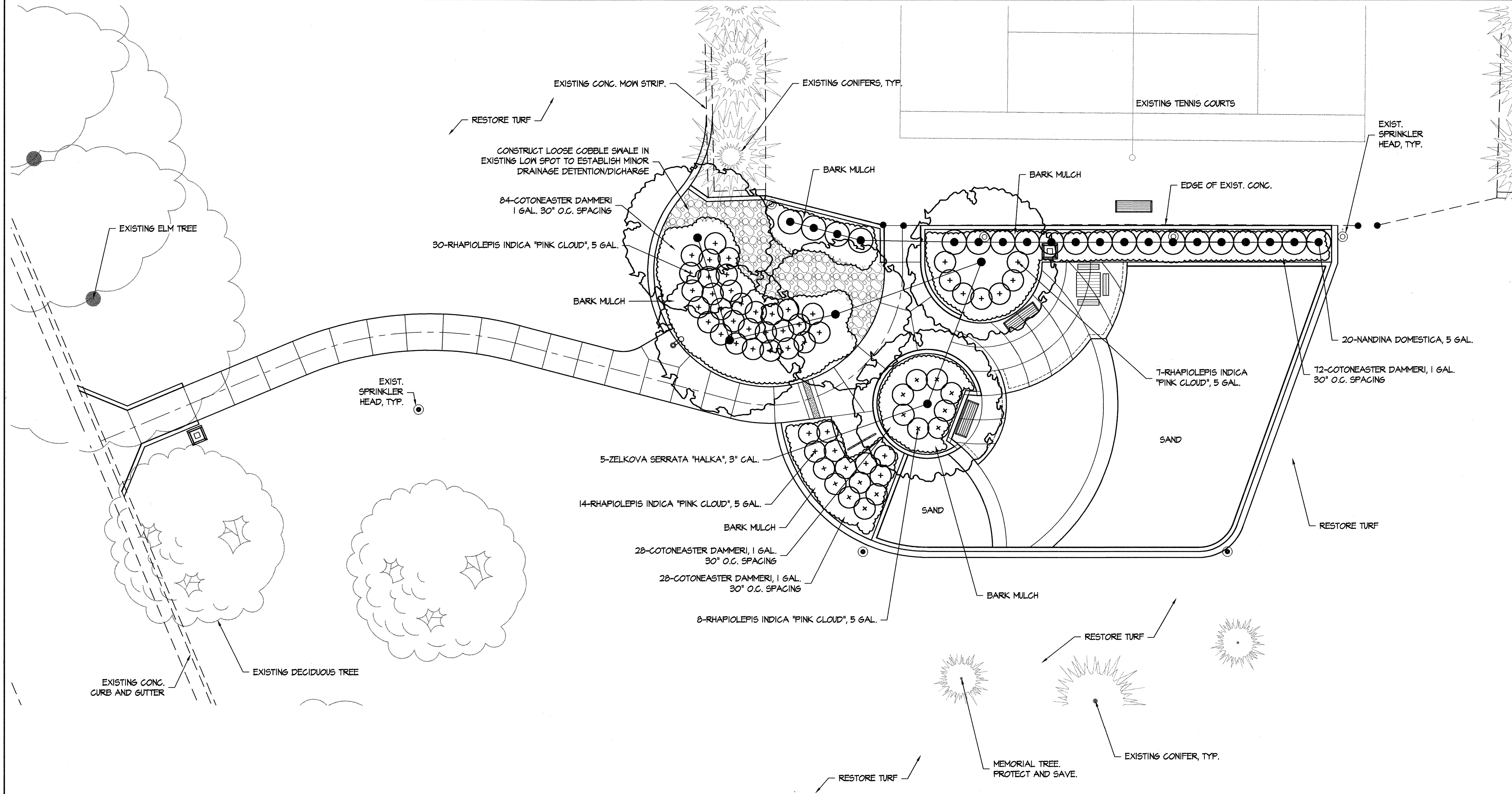








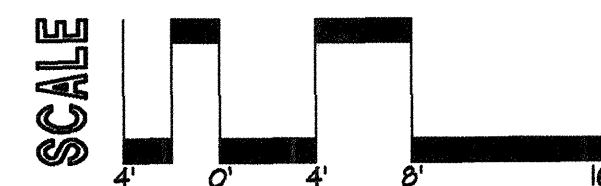




PLANT LIST

Q	BOTANICAL NAME	COMMON NAME	HT.	W
12	ZELKOVA SERRATA "HALKA"	ZELKOVA SERRATA "HALKA"	40'	30'
20	NANDINA DOMESTICA	NANDINA DOMESTICA	5'	3'
54	RHAPIOLEPIS INDICA "PINK CLOUD"	RHAPIOLEPIS INDICA "PINK CLOUD"	3'	3'
412	COTONEASTER DAMMERI "EICHHOLZ"	COTONEASTER DAMMERI "EICHHOLZ"	1'	--

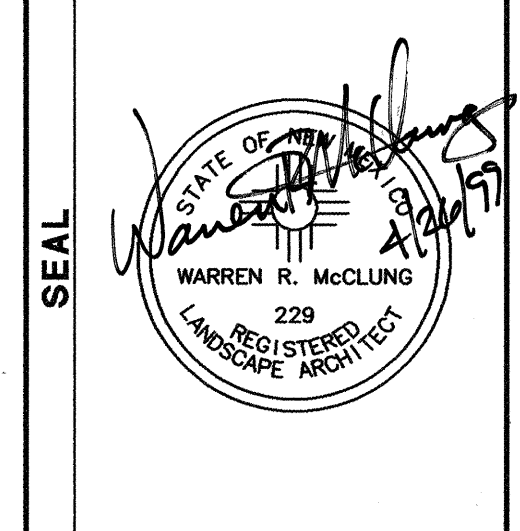
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CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: <b>ALTURA PARK PLAY AREA CONSTRUCTION DOCUMENTS PLANTING PLAN</b>			
DESIGNED BY: PDS Southwest, Ltd.		DATE: APRIL 1999	
DRAWN BY: PDS Southwest, Ltd.		DATE: APRIL 1999	
CHECKED BY: PDS Southwest, Ltd.		DATE: APRIL 1999	
Design Review Committee		City Engineer Approval	
Last Design Update		MO./DAY/YR.	
City Project No. <b>6126.91</b>		Zone Map No. <b>J-17</b>	
Sheet <b>11</b>		Of <b>13</b>	

SURVEY INFORMATION		BENCHMARK		AS BUILT INFORMATION	
FIELD NOTES		ACS MONUMENT 11-J17		CONTRACTOR	
NO.	BY	DATE	NGVD 1929 ELEVATION = 5167.688'	WORK STAKED BY	DATE
				INSPECTOR'S APPROVAL	DATE
				FIELD VERIFICATION BY	DATE
				DRAWING CORRECTED BY	DATE
				MICRO-FILM INFORMATION	
				RECORDED BY	DATE
				NO.	





## CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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 OCCUPANCY 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:


- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
- SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

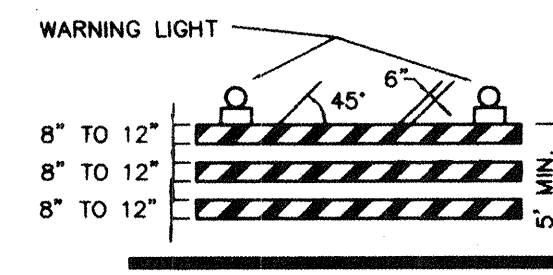
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

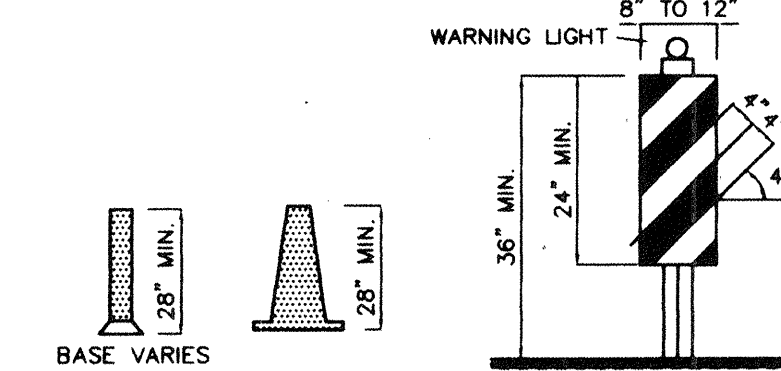
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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

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



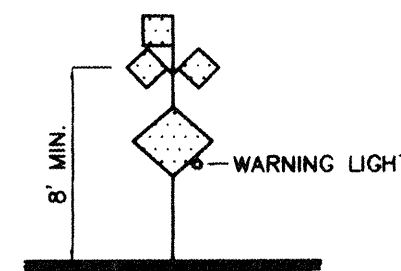
TYPE III BARRICADE



VERTICAL PANEL



CONES



HIGH LEVEL WARNING DEVICE

## 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 LIMIT (MPH)	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

## TAPER CRITERIA

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

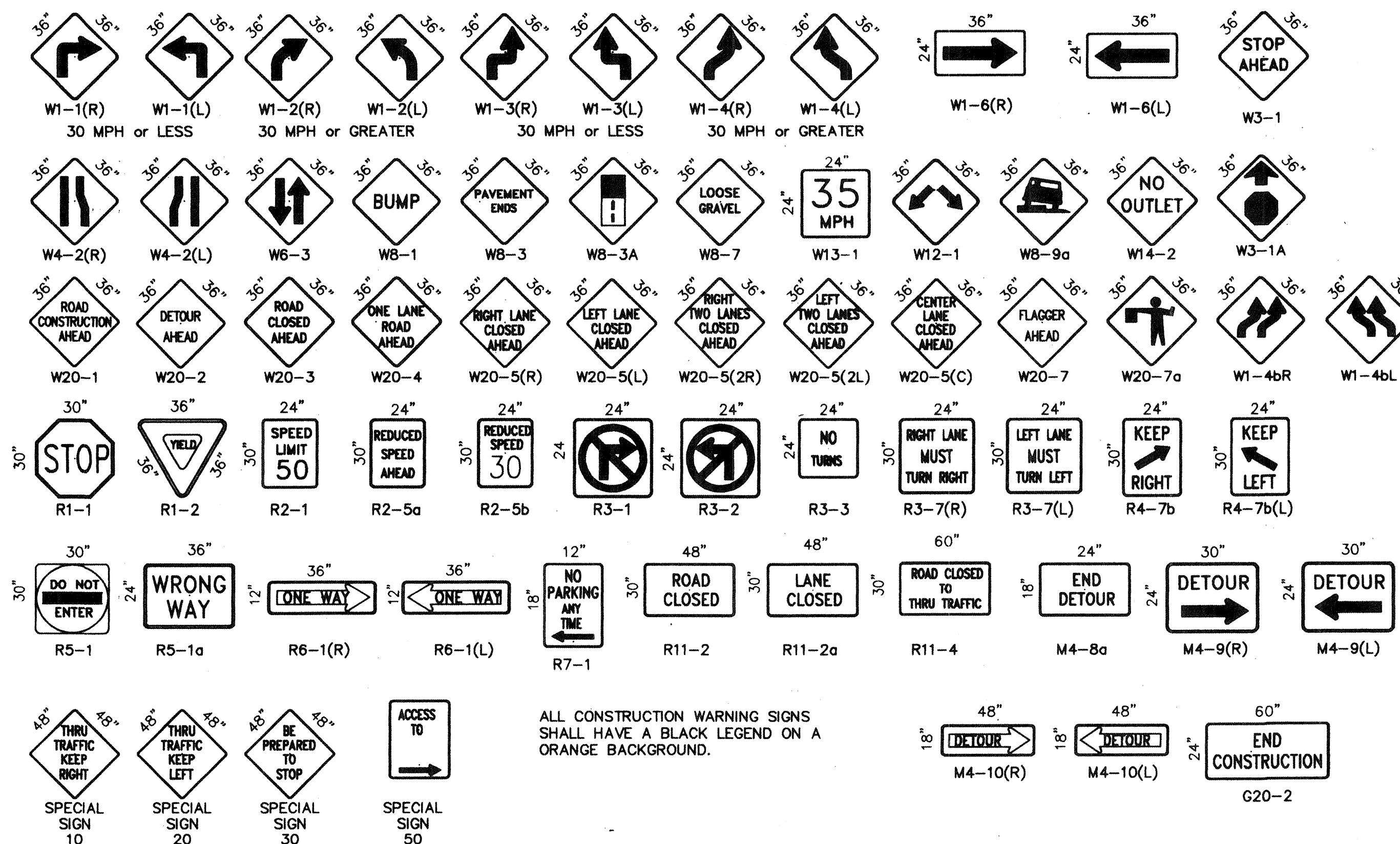
## TAPER LENGTH COMPUTATION

SPEED LIMIT	L = WS <sup>2</sup> / 60
40 MPH OR LESS	
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

FOR INFORMATION ONLY

## SIGN FACE DETAILS



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

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: <b>ALTURA PARK PLAY AREA SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS</b> A2711 23.1599	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST UPDATE	
PROJECT NO. <b>6126.91</b>	MAP NO.
SHEET <b>12</b> OF <b>13</b>	



