

MARCH 24, 2000  
CONSTRUCTION DOCUMENT

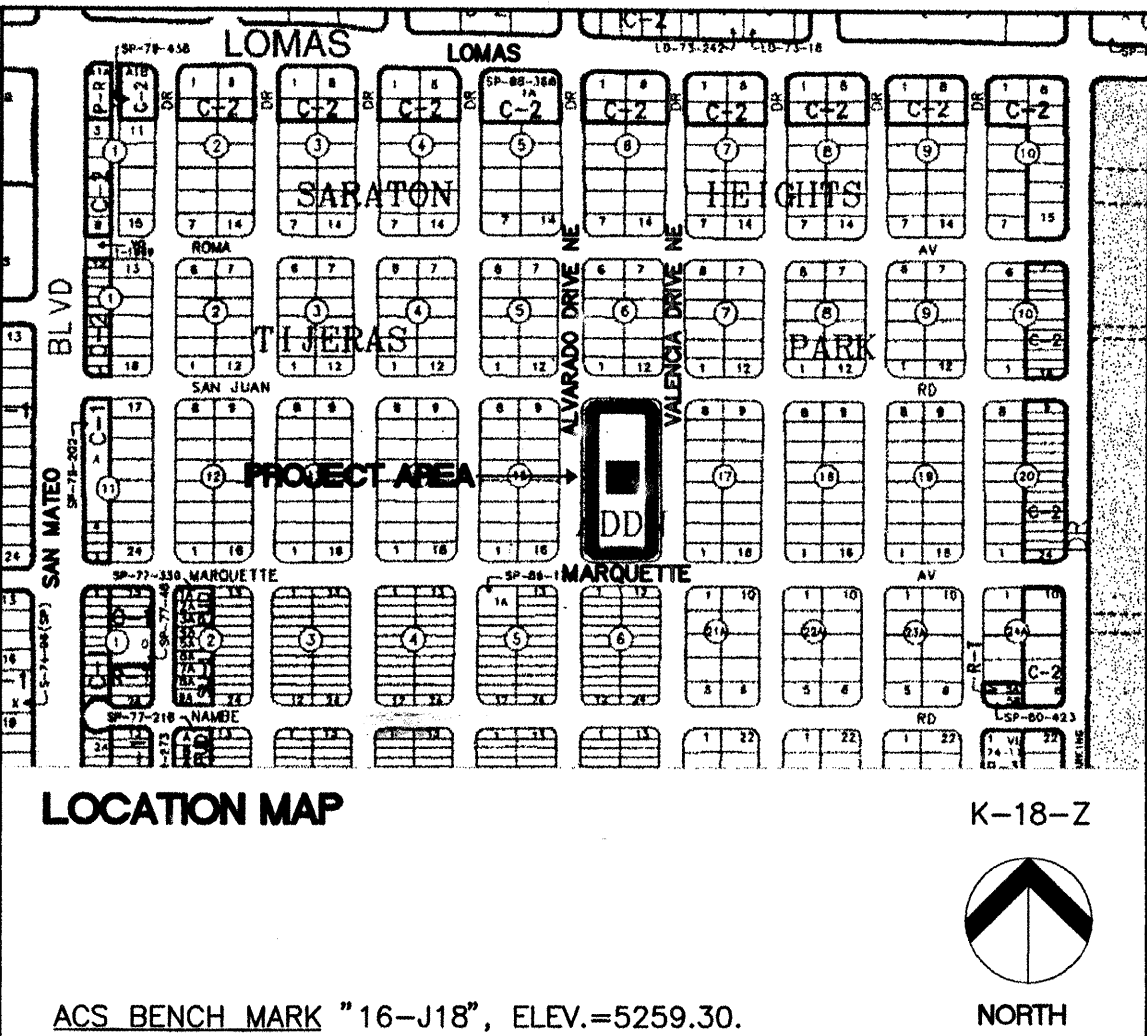
FOX MEMORIAL PARK  
PLAYGROUND RENOVATION

700 ALVARADO DR. NE

INDEX OF DRAWINGS

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DESIGNWORKSHOP  
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Suite E130  
Albuquerque, NM 87104  
(Tel.) 505.243.8333  
(Fax) 505.243.8337



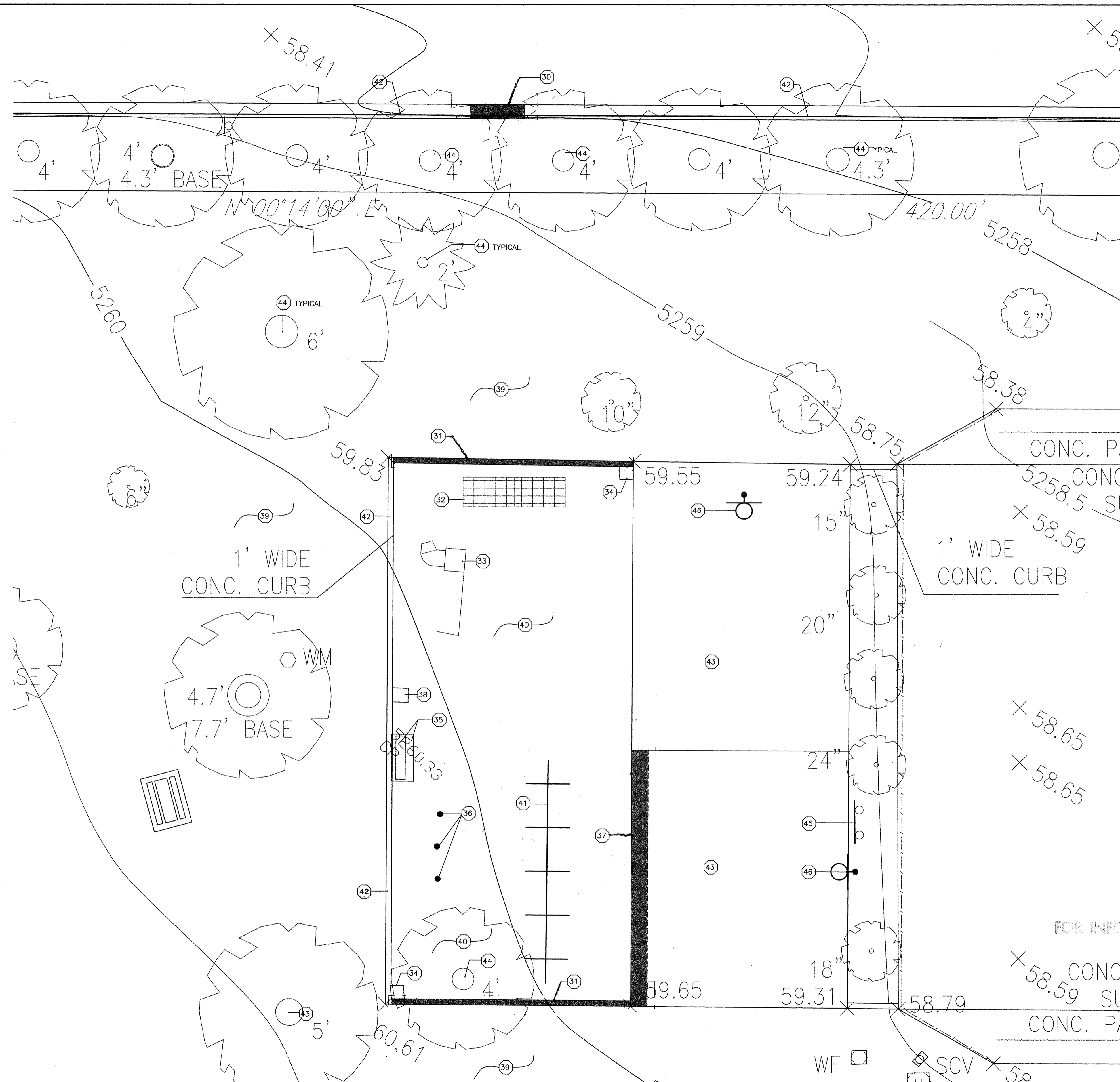
GENERAL NOTES

- ALL EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND SHALL INCLUDE UPDATE NO.6
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL COORDINATE WITH WATER SYSTEMS DIVISION (857-8200) FIVE WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION THREE DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
- CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISH ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO NEW GRADE, UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FORM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

FOR INFORMATION ONLY

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
LANDSCAPE ARCHITECT'S SEAL	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
	DRC CHAIRMAN	<i>[Signature]</i>	4/1/00	<i>[Signature]</i> 4/13/00 City Engineer Date			
	TRANSPORTATION	<i>[Signature]</i>	4/1/00				
	WATER/WASTEWATER	<i>[Signature]</i>	4/1/00				
	HYDROLOGY	<i>[Signature]</i>	4/1/00				
	C.I.P.	<i>[Signature]</i>	4/1/00				
CONSTR. MNGMT.	<i>[Signature]</i>	4/1/00	City Project Number				
CONSTR. COORD.	<i>[Signature]</i>	4/1/00	629391				
Sheet				1	Of	9	

SET NUMBER: \_\_\_\_\_



## KEYNOTES

## REMOVALS

- ③0 -SAWCUT NEATLY REMOVE AND DISPOSE EXISTING CURB AND GUTTER TO NEAREST JOINT.
- ③1 -SAWCUT NEATLY EXISTING CURB INTO 3' LENGTHS TO BE USED IN DESIGN AS STEPPING STONES. (12 TOTAL)
- SEE D3 SHEET 6 FOR STEPPING STONE DETAIL
- REMOVE AND DISPOSE ANY REMAINING EXCESS CURB
- ③2 -REMOVE EXISTING CLIMBER
- ③3 -REMOVE EXISTING PLAY STRUCTURE
- ③4 -REMOVE EXISTING CONCRETE PAD AND TRASH RECEPTACLE. SALVAGE "RINCONADA" STYLE TRASH RECEPTACLE FOR USE IN PROPOSED IMPROVEMENTS. SEE KEYNOTE 8 SHEET 3.
- ③5 -REMOVE EXISTING BENCH AND CONCRETE BASE PAD.
- ③6 -REMOVE EXISTING SPRING TOYS
- ③7 -SAW CUT AND REMOVE 3' OF EXISTING CONCRETE PAD.
- EASE BACK SAWCUT EDGE WITH GRINDER.
- ③8 -REMOVE AND DISPOSE EXISTING TRASH RECEPTACLE AND BASE PAD.
- ③9 -REMOVE SOD FROM AREAS PROPOSED FOR PAVING. SEE LAYOUT PLAN.
- ④0 -REMOVE AND DISPOSE OF EXISTING SAND.
- ④1 -PRESERVE AND PROTECT EXISTING SWING-SET.
- ④2 -PRESERVE AND PROTECT EXISTING CONCRETE CURB.
- ④3 -PRESERVE AND PROTECT EXISTING CONCRETE SURFACE.
- ④4 -PRESERVE AND PROTECT EXISTING TREE.
- ④5 -PRESERVE AND PROTECT EXISTING COMMUNITY BULLETIN BOARD.
- ④6 -PRESERVE AND PROTECT EXISTING BASKET BALL GOAL.

**NOTE:**  
IRRIGATION DEMOLITION AND IRRIGATION IMPROVEMENTS ARE  
ON SHEET 5.

<i>AS-BUILT INFORMATION</i>	
CONTRACTOR	
WORK STARTED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
<i>MICRO-FILM INFORMATION</i>	
RECORDED BY	DATE
NO.	

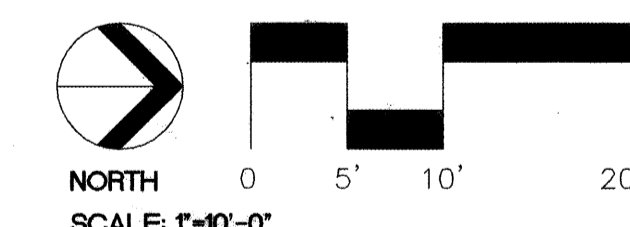
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LANDSCAPE ARCHITECT'S SEAL

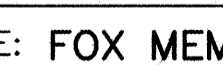

The seal is circular with the text "STATE OF NEW YORK" at the top and "REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT" at the bottom. In the center, it reads "WILLIAM H. WILLIAMS" and "No. 12345". A signature is written across the seal.

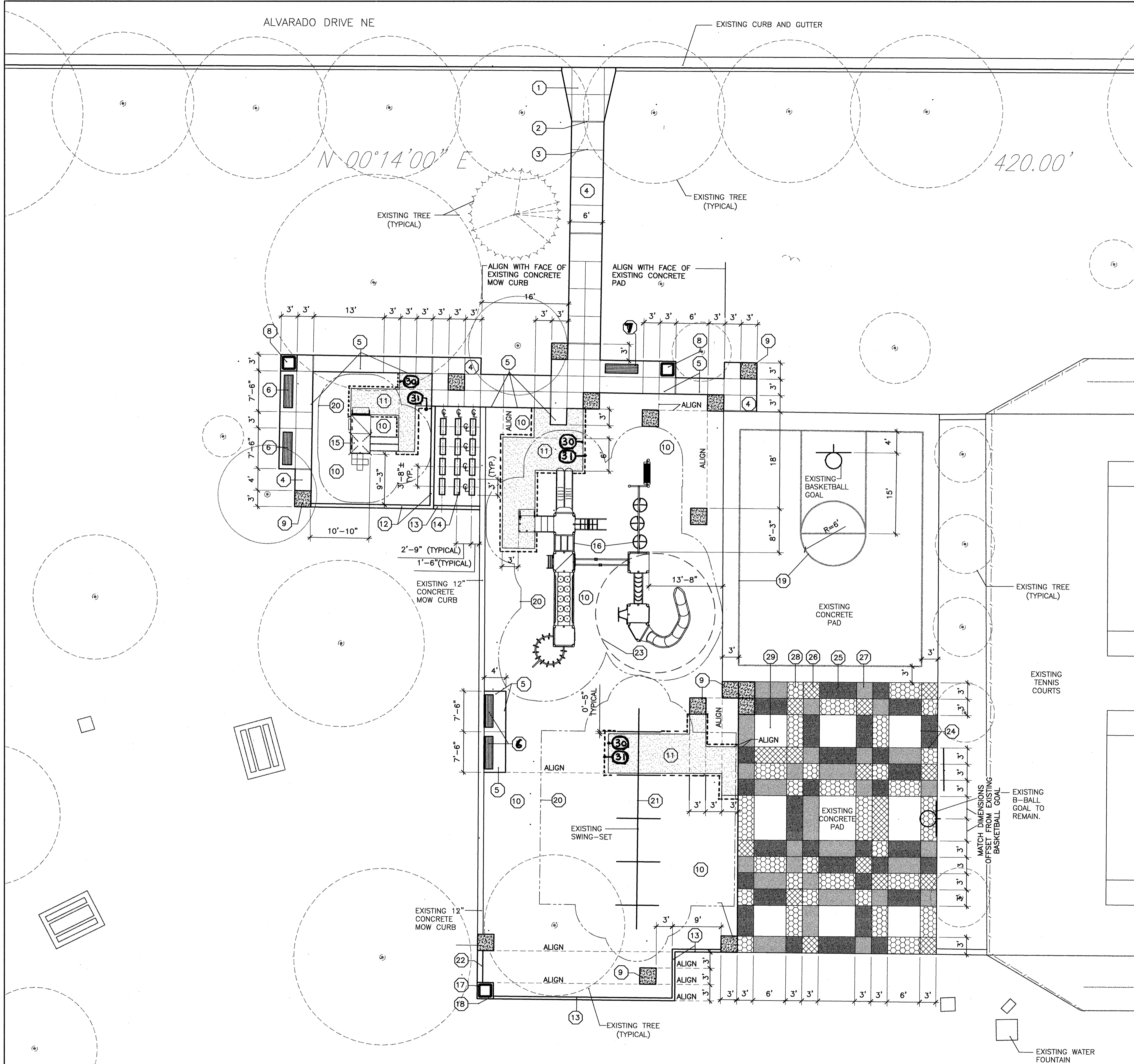
NO.		DATE		REMARKS		BY
<i>REVISIONS</i>						
<i>DESIGN</i>						
DESIGNED BY	W.S.F./S.M		DATE		12/99	
DRAWN BY	SM		DATE		12/99-03/00	
CHECKED BY	W.S.D		DATE		3/02/00	

FOR INFORMATION ONLY



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP																									
<b>TITLE: FOX MEMORIAL PARK – PLAYGROUND RENOVATION REMOVALS PLAN</b>																									
Design Review Committee 	City Engineer Approval 	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Mo./Day/Yr.</th> <th style="width: 50%; text-align: center;">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> <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> </tbody> </table>	Mo./Day/Yr.	Mo./Day/Yr.																				
Mo./Day/Yr.	Mo./Day/Yr.																								
City Project No.  <div style="text-align: center; font-size: 1.2em; font-weight: bold;">629391</div>	Zone Map No.  <div style="text-align: center; font-size: 1.2em; font-weight: bold;">K-18</div>	Sheet  <div style="text-align: center; font-size: 1.2em; font-weight: bold;">2</div>	Of  <div style="text-align: center; font-size: 1.2em; font-weight: bold;">9</div>																						



KEYNOTES

ITEM	DESCRIPTION	DETAIL REFERENCE
① RAMP	-CONCRETE WHEELCHAIR RAMP	-SEE D7 SHEET 6 -SEE SHEET 4 FOR GRADES.
② EXPANSION JOINT	-LOCATE AS PER PLAN	-AS PER C.O.A STANDARD DETAIL # 2720
③ CONTROL JOINT	-LOCATE AS PER PLAN	-AS PER C.O.A STANDARD DETAIL # 2720
④ CONCRETE WALK	-LOCATE SCORELINES AND EXPANSION JOINTS AS SHOWN ON PLAN	-C.O.A STANDARD DETAIL #2720 SEE D10 SHEET 6 FOR CONCRETE FINISH.
⑤ TURN DOWN SLAB	-THICKEN EDGE TO BE ADJACENT TO PLAY AREA	-C.O.A STANDARD DETAIL #2728 SEE D910 SHEET 6 FOR CONCRETE FINISH.
⑥ BENCH (NO BACK REST) (1 OF 3)	-MANUFACTURER: DUMOR INC. MODEL: 6' BENCH 103 INSTALLATION: EMBEDMENT POWDER COAT: DEEP RED RECYCLED PLASTIC SLATS: GREY REPRESENTATIVE: EXERPLAY INC. (505) 281-0151 NOTE: BENCH TO BE CENTERED BETWEEN SURROUNDING CONTROL JOINTS AND/OR EXPANSION JOINTS.	-SEE D5 SHEET 6 OR APPROVED EQUAL
⑦ BENCH (WITH BACK REST) (1 OF 2)	-MANUFACTURER: DUMOR INC. MODEL: 6' BENCH 88 INSTALLATION: EMBEDMENT POWDER COAT: DEEP RED RECYCLED PLASTIC SLATS: GREY REPRESENTATIVE: EXERPLAY INC. (505) 281-0151 NOTE: ALIGN BENCH WITH EDGE OF CONCRETE SLAB AS SHOWN ON PLAN.	-SEE D4 SHEET 6 OR APPROVED EQUAL W/ARMRESTS
⑧ TRASH RECEPTACLE (1 OF 2)	-SALVAGED: SEE REMOVALS SHEET 2 INSTALL TRASH RECEPTACLE CENTERED WITHIN SURROUNDING CONTROL JOINTS AND/OR EXPANSION JOINTS.	-SHEET 2 REMOVALS PLAN
⑨ CONCRETE CUBE (1 OF 15)	-CAST IN PLACE CONCRETE CUBES DAVIS COLOR: GRAPHITE	-SEE D8 SHEET 6
⑩ SAND SAFETY SURFACE	-CLEAN MASONARY SAND TO BE INSTALLED AT 12" MIN DEPTH. HOLD TOP OF SAND 2" BELOW TOP OF ADJACENT PAVING.	-----
⑪ RESILIENT SURFACE	-----	-SEE D6 SHEET 6
⑫ EDGER WALL	-ADJACENT TO SAND PLAY AREA	-C.O.A STANDARD DETAIL #2729
⑬ 8" MOW CURB	-----	-SEE D9 SHEET 6
⑭ STEPPING STONES	-SALVAGED AND RELOCATED CURB STONES	-SEE D3 SHEET 6
⑮ TOT LOT PLAYSTRUCTURE	-----	-SEE D2 SHEET 6
⑯ PLAYSTRUCTURE	-----	-SEE D1 SHEET 6
⑰ TRASH RECEPTACLE	-MANUFACTURER: MATERIALS INC. (505) 867-9035 MODEL: RINCONADA 3 PROPOSED TRASH RECEPTACLE TO MATCH SALVAGED TRASH RECEPTACLES. CENTER TRASH RECEPTACLE ON CONCRETE PAD, AND INSTALL PER MANUFACTURERS INSTRUCTIONS.	-----
⑱ CONCRETE PAD UNDER TRASH RECEPTACLE.	-----	-C.O.A STANDARD DETAIL #2720 SEE D10 SHEET 6 FOR CONCRETE FINISH.
⑲ PAINTED BASKETBALL COURT LINES	-LIGHTLY SANDBLAST EXISTING CONCRETE SURFACE TO REMOVE EXISTING COURTLINES. LOCATE NEW LINES AS SHOWN ON PLAN. PAINT: WHITE CONCRETE PAINT.	-----
⑳ LIMITS OF SAFETY ZONE	-LIMITS CONTAIN PLAY EQUIPMENT AND SAFETY SURFACES ONLY. AREA TO BE FREE FROM OTHER MATERIALS AND/OR OBSTRUCTIONS.	-----
㉑ SWING-SET RENOVATIONS	-SWING FRAME TO BE SANDED, PRIMED, AND PAINTED. -PAINT: TIGER DRY-LAC 009. (RED) -REPLACE SEATS/BUCKETS, CHAINS IF NECESSARY IN ACCORDANCE WITH STANDARD C.O.A MAINTENANCE REGIME. (NIC)	-----
㉒ 12" MOW CURB	-MATCH EXISTING CURB TO REMAIN	-SEE D9 SHEET 6
㉓ SAND SAFETY SURFACE	-CLEAN MASONARY SAND INSTALLED TO A MINIMUM DEPTH OF 18". DEPTH OF SAND RELATES TO CRITICAL FALL HEIGHT OF PLAY STRUCTURE.	-----

CONCRETE STAINING

㉔ SAWCUT SCORELINES (TYP)	-CONTINUOUS SAW CUT TO A 1/8" DEPTH. LOCATE SCORELINES AS SHOWN ON PLAN. (20 TOTAL SAWCUT SCORELINES.)	FOR INFORMATION ONLY
㉕ VIBRANT STAIN	-PANTONE RED 032	
㉖ VIBRANT STAIN	-PANTONE BLACK	
㉗ VIBRANT STAIN	-PANTONE ORANGE 021	
㉘ VIBRANT STAIN	-PANTONE PROCESS BLUE	
㉙ NO STAIN	-LIGHTLY SANDBLASTED SURFACE	

INSTALLATION NOTES:

- Lightly sandblast existing concrete surface and patch/repair all defects in the surface in preparation for staining. The substrate shall be free of all debris, oils, grease, curing compounds, sealers, etc. prior to application of the stain(s) and/or sealer(s).
- The Stain and Seal Coat shall be applied to the clean substrate, and in accordance with the manufacturer's recommendations.
- Concrete Stain to be waterbased, penetrating, concrete stain as supplied and installed by Creative Concrete (505 764-8780) or approved equal.

- ③① EDGE OF SAND (TYP)
- ③② BURIED EDGE OF RESILIENT SURFACE (TYP)

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: FOX MEMORIAL PARK - PLAYGROUND RENOVATION  
PLAYGROUND LAYOUT PLAN

Design Review Committee  
APR 11 2000  
DESIGN REVIEW COMMITTEE

City Engineer  
APR 13 2000  
CITY ENGINEER

City Project No. 629391

Zone Map No. K-18

Sheet 3 Of 9

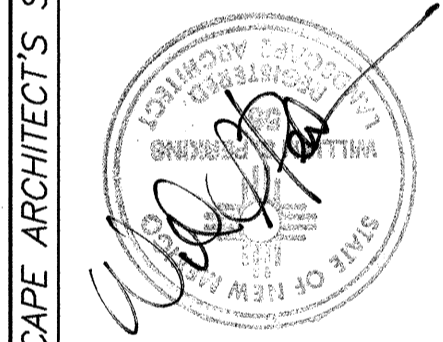
REMARKS

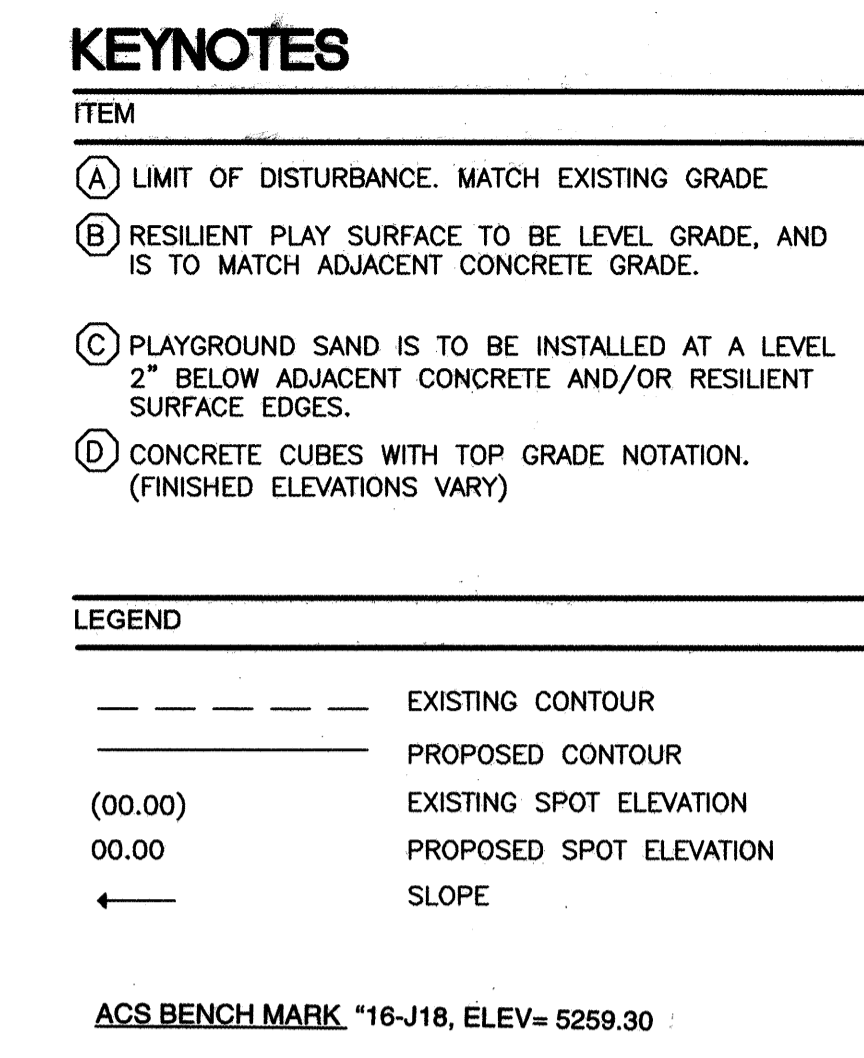
DESIGNED BY: W.S.P./S.M. DATE: 12/99

DRAWN BY: SM DATE: 12/99-03/00



CHECKED BY: W.S.P. DATE: 3/22/00

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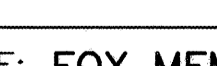

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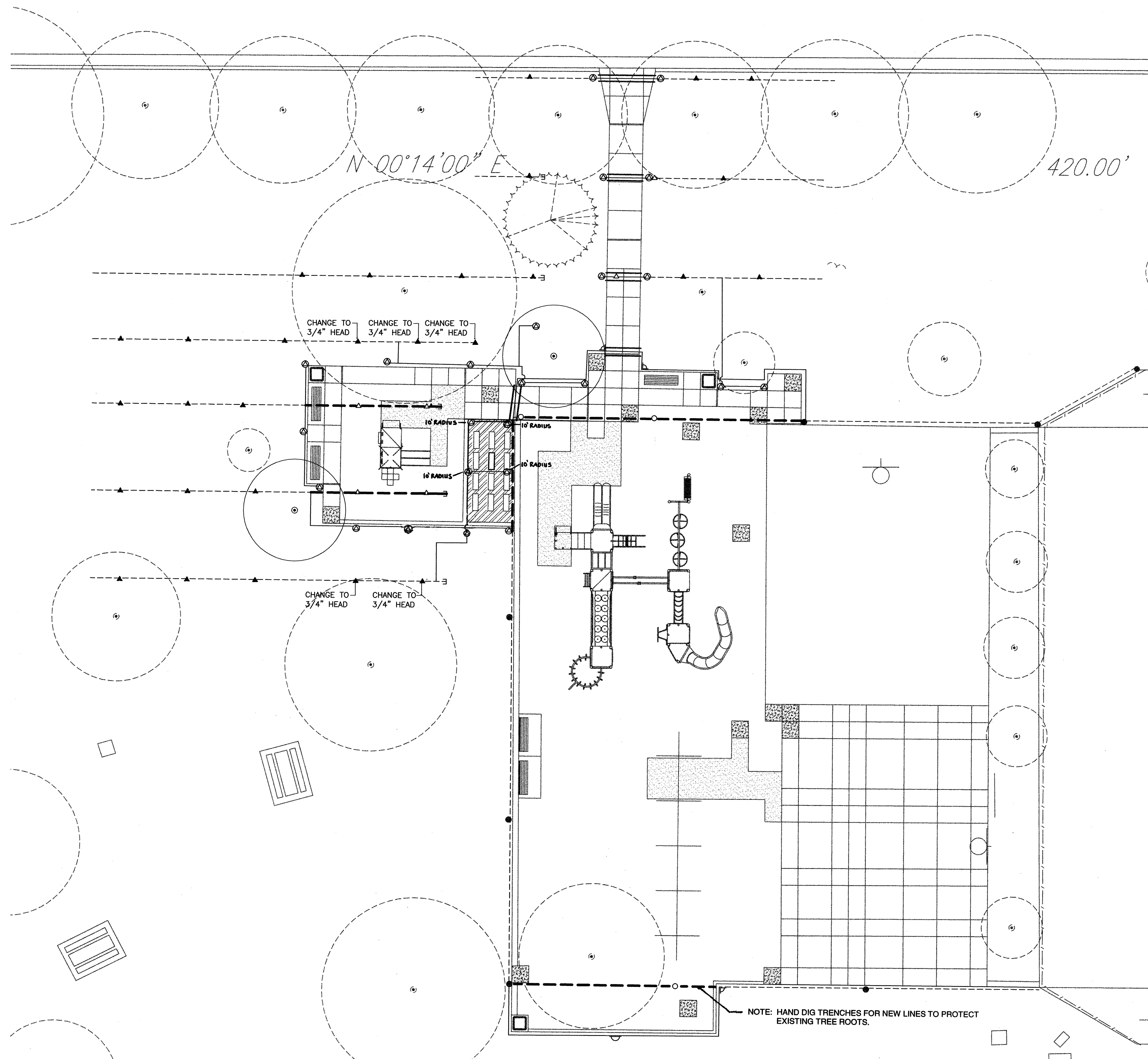
 

NORTH  
SCALE: 1"=10'-0"

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP													
<b>TITLE: FOX MEMORIAL PARK – PLAYGROUND RENOVATION</b> <b>GRADING PLAN</b>													
Design Review Committee 	City Engineer Approval 	Last Design Update	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Mo./Day/Yr.</td> <td style="width: 50%; padding: 2px;">Mo./Day/Yr.</td> </tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> <tr><td style="height: 20px;"></td><td></td></tr> </table>	Mo./Day/Yr.	Mo./Day/Yr.								
Mo./Day/Yr.	Mo./Day/Yr.												
City Project No.	<b>629391</b>	Zone Map No.	<b>K-18</b>										
		Sheet	<b>4</b>										
		Of	<b>9</b>										

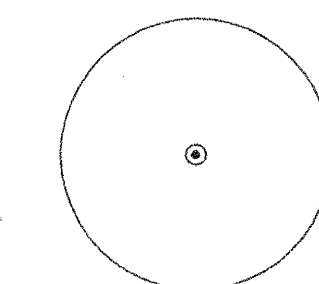


## IRRIGATION SCHEDULE

<hr/>	
ITEM	
●	EXISTING HUNTER 1-20 HEAD TO REMAIN PRESERVE AND PROTECT
○	EXISTING HUNTER 1-20 (TO BE REMOVED)
▽	PROPOSED HUNTER 1-20 QUARTER HEAD
∇	PROPOSED HUNTER 1-20 HALF HEAD
▲	EXISTING HUNTER PS-4 HEAD TO REMAIN PRESERVE AND PROTECT
△	EXISTING HUNTER PS-4 HEAD TO BE REMOVED.
⊙	PROPOSED HUNTER PS-4 HEAD (QUARTER, HALF, FULL OR ADJUSTABLE AS REQUIRED)
-----	EXISTING LATERAL LINE PRESERVE AND PROTECT
-----	EXISTING LATERAL LINE TO BE REMOVED
-----	
=====	PROPOSED SCHEDULE 40 PVC LATERAL LINE TO BE DETERMINED WITH FIELD VERIFICATION OF EXISTING IRRIGATION LINES.
=====	PROPOSED SLEEVES.
=====	SLEEVES TO BE TWICE THE DIAMETER OF PIPE BEING SLEEVED.

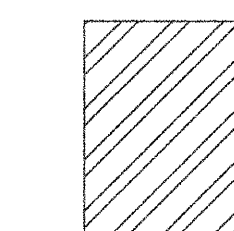
**NOTE:**  
PROVIDE AND INSTALL SPRINKLERS HEADS PER  
STANDARD C.O.A DETAIL #2709

## PLANTING



Bradford Ornamental Pear  
(*Pyrus calleryana* 'Capital')  
2" Caliper  
Total quantity = 2

TREES TO BE INSTALLED AS PER  
C.O.A STANDARD DETAIL  
# 2714.



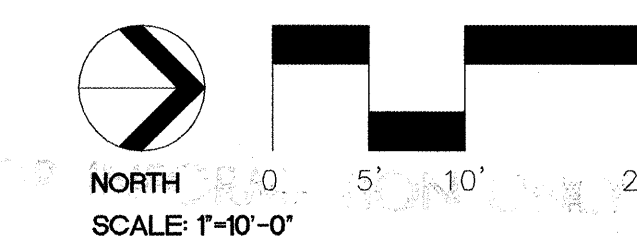
AREA TO BE SODDED WITH "PARK BLEND" TURF GRASS.

### ADDITIONAL NOTES

-ALL DISTURBED AREAS, AS APPROXIMATELY DEFINED, ON GRADING PLAN ARE TO BE SODDED WITH "PARK BLEND" TURF GRASS.

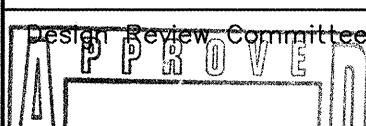
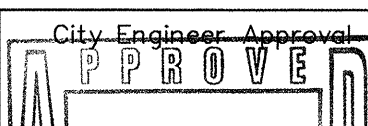
-SOD INSTALLATION IS TO BE PER COA STANDARD SPECIFICATIONS.

FOR INFORMATION ONLY

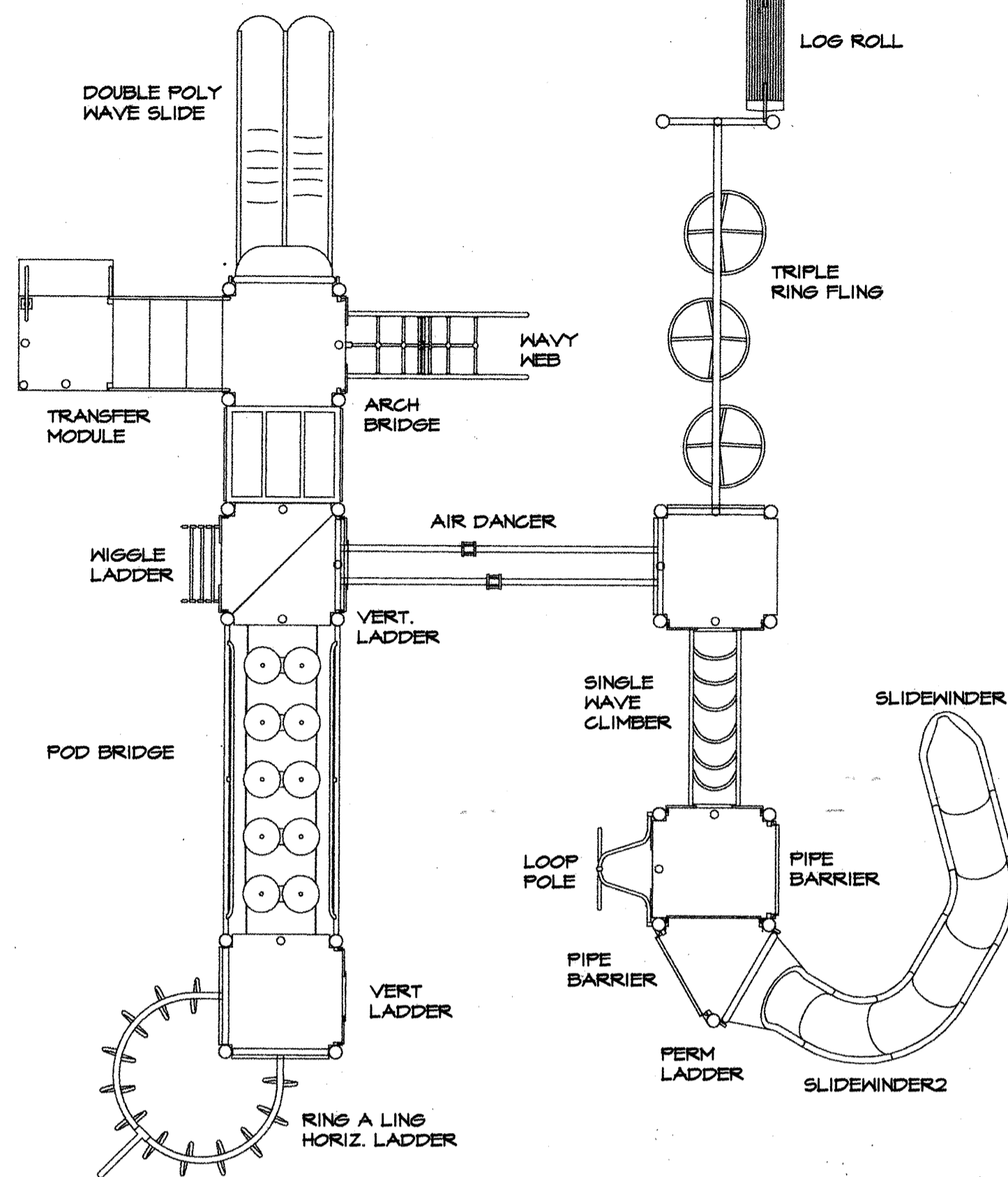


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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP				
TITLE: FOX MEMORIAL PARK – PLAYGROUND RENOVATION IRRIGATION AND PLANTING PLAN				
Design Review Committee 		City Engineer Approval 		Last Design Update
				Mo./Day/Yr.     
				Mo./Day/Yr.     
City Project No.		Zone Map No.	Sheet Of	
629391		K-18	5 of 7	

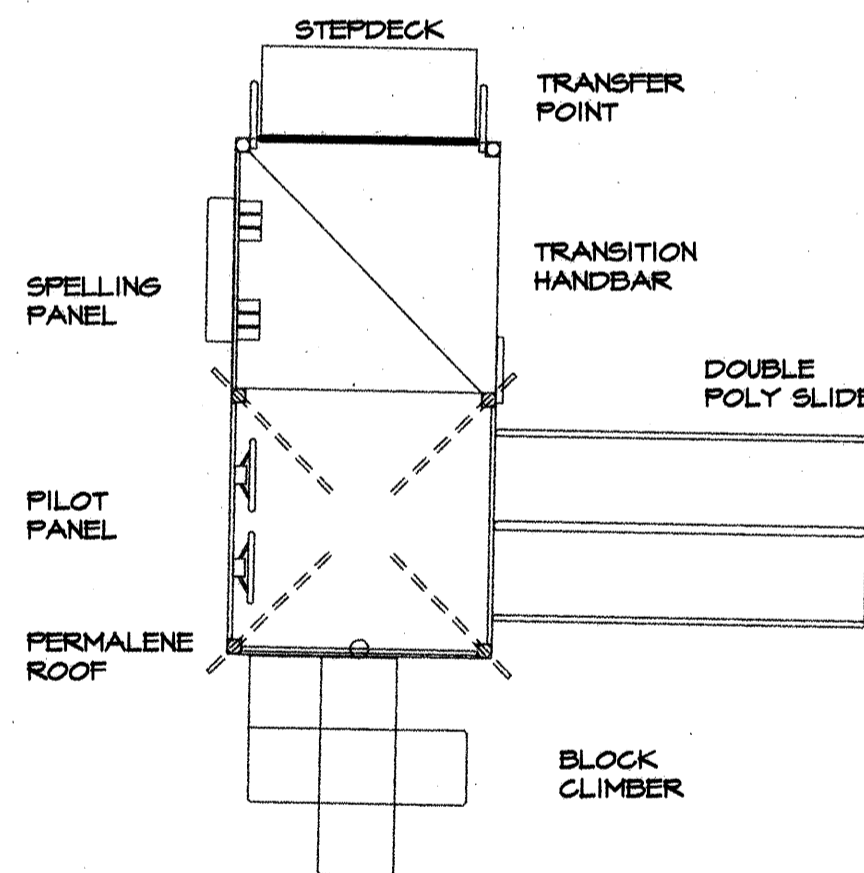
PLAYSTRUCTURE  
MANUFACTURER: LANDSCAPE STRUCTURES INC.  
VENDOR: EXERPLAY INC. DAVID SMITH, (505) 281-0151  
MODEL: PLAYBOOSTER  
DRAWING# 15000ST



## D1 PLAY STRUCTURE NTS

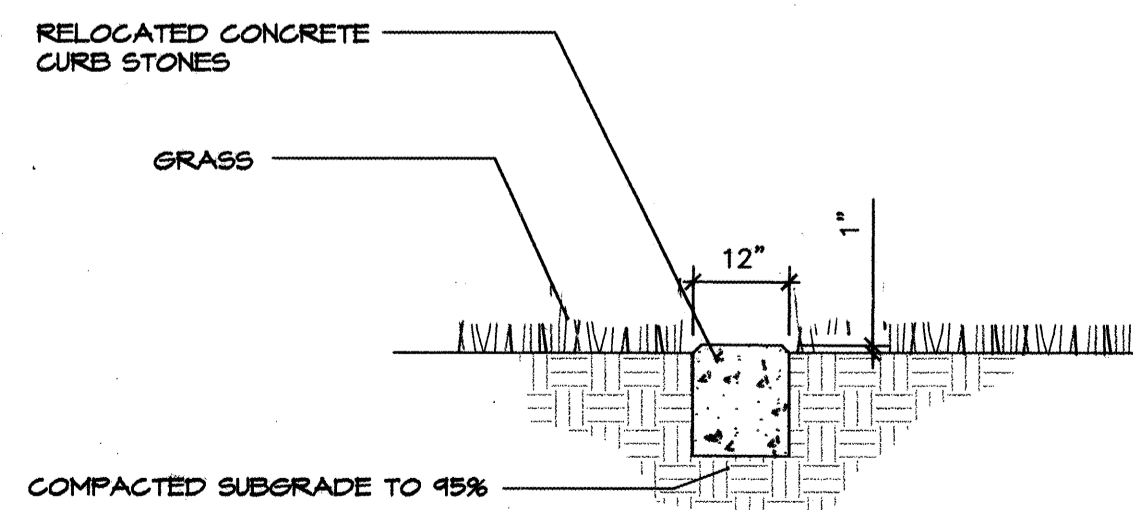
### PLAYGROUND NOTES

PLAYSTRUCTURES TO BE  
INSTALLED AS PER  
MANUFACTURERS INSTRUCTIONS.  
DECK: BLACK  
SLIDES: BLUE  
POSTS: YELLOW  
COLLARS: PURPLE  
TENDER TUFF: RED  
PANELS: RED  
PERMALENE ROOF: GREEN



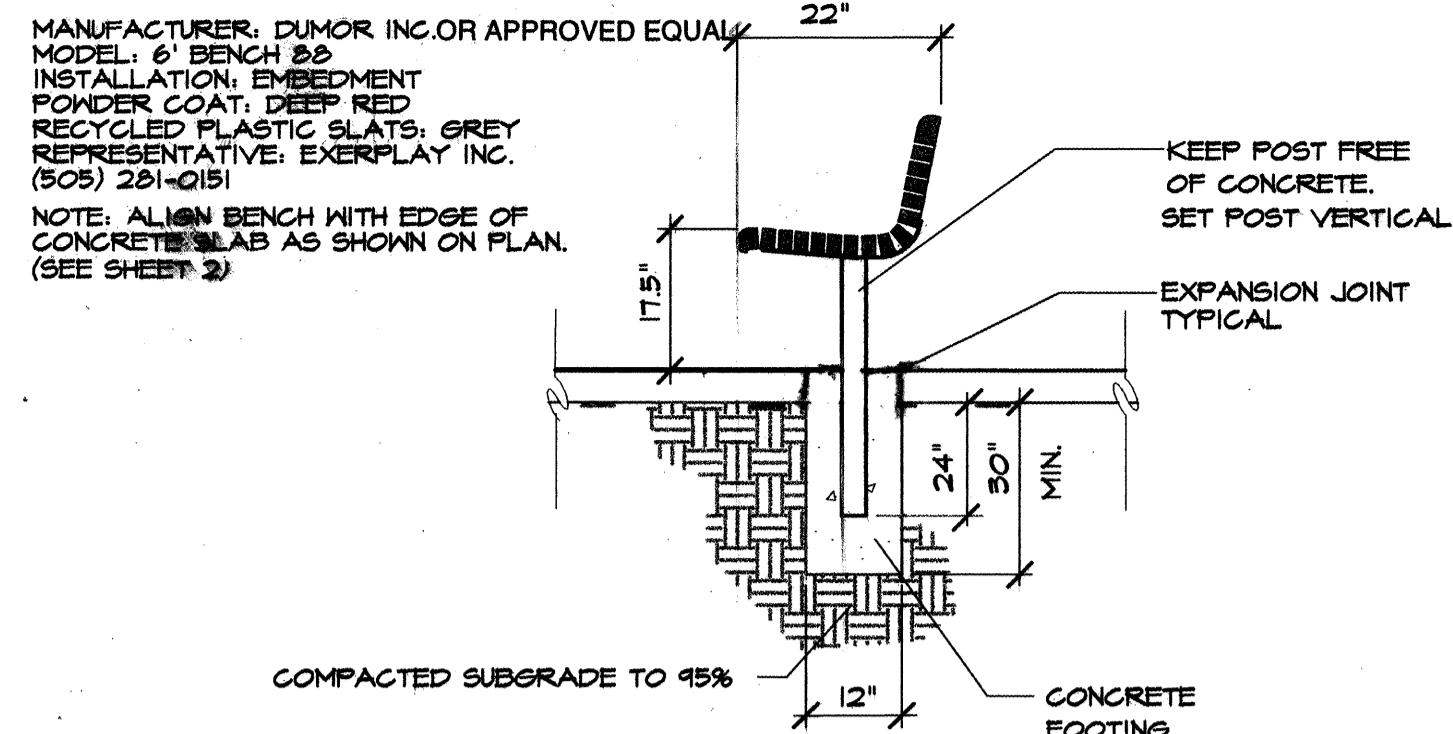
TOT-LOT  
-MANUFACTURER: LANDSCAPE  
STRUCTURES INC.  
-VENDOR: EXERPLAY INC.  
DAVID SMITH, (505) 281-0151  
-MODEL: PLAYBOOSTER  
-DRAWING# 150460TB  
(MIRRORED TOT-LOT)

## D2 TOT-LOT PLAY STRUCTURE NTS

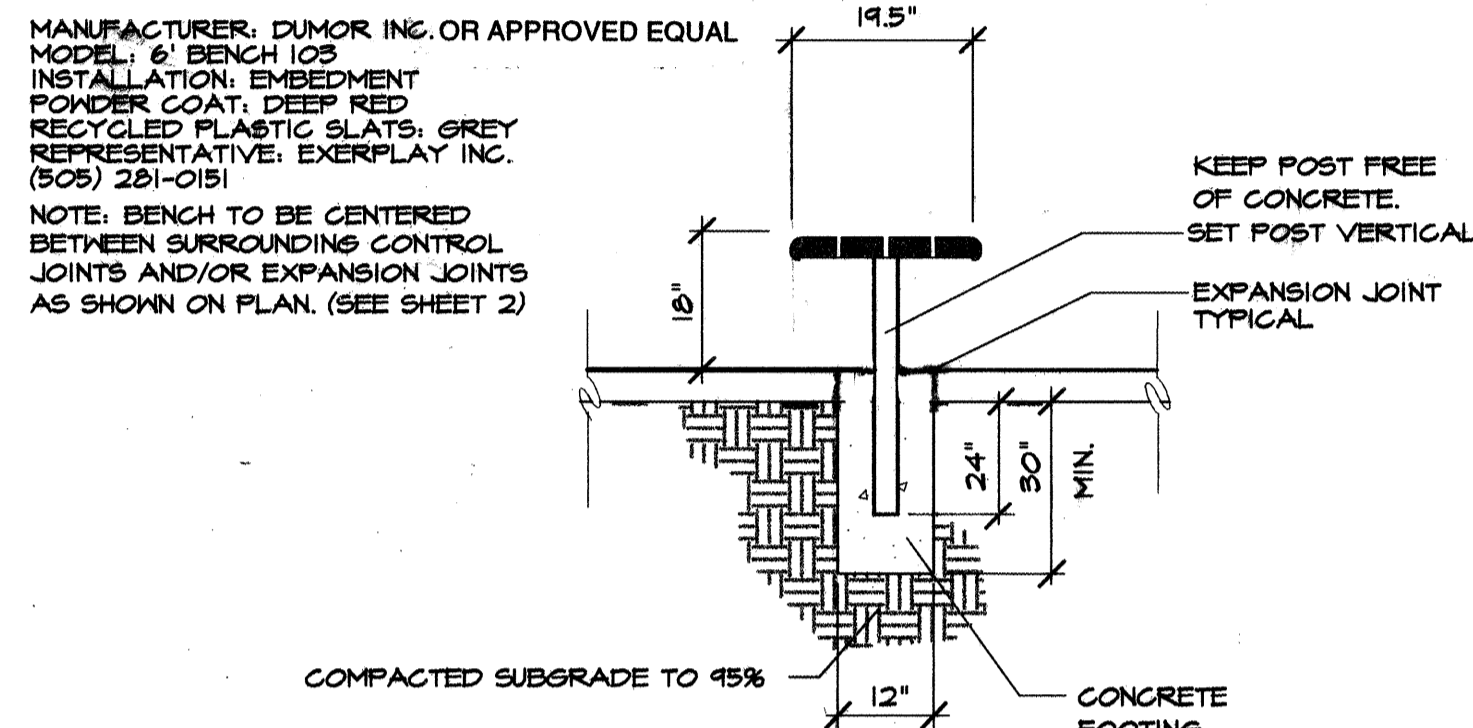


NOTE: SEE SHEET 2 FOR CURB STONE SALVAGE INSTRUCTIONS.

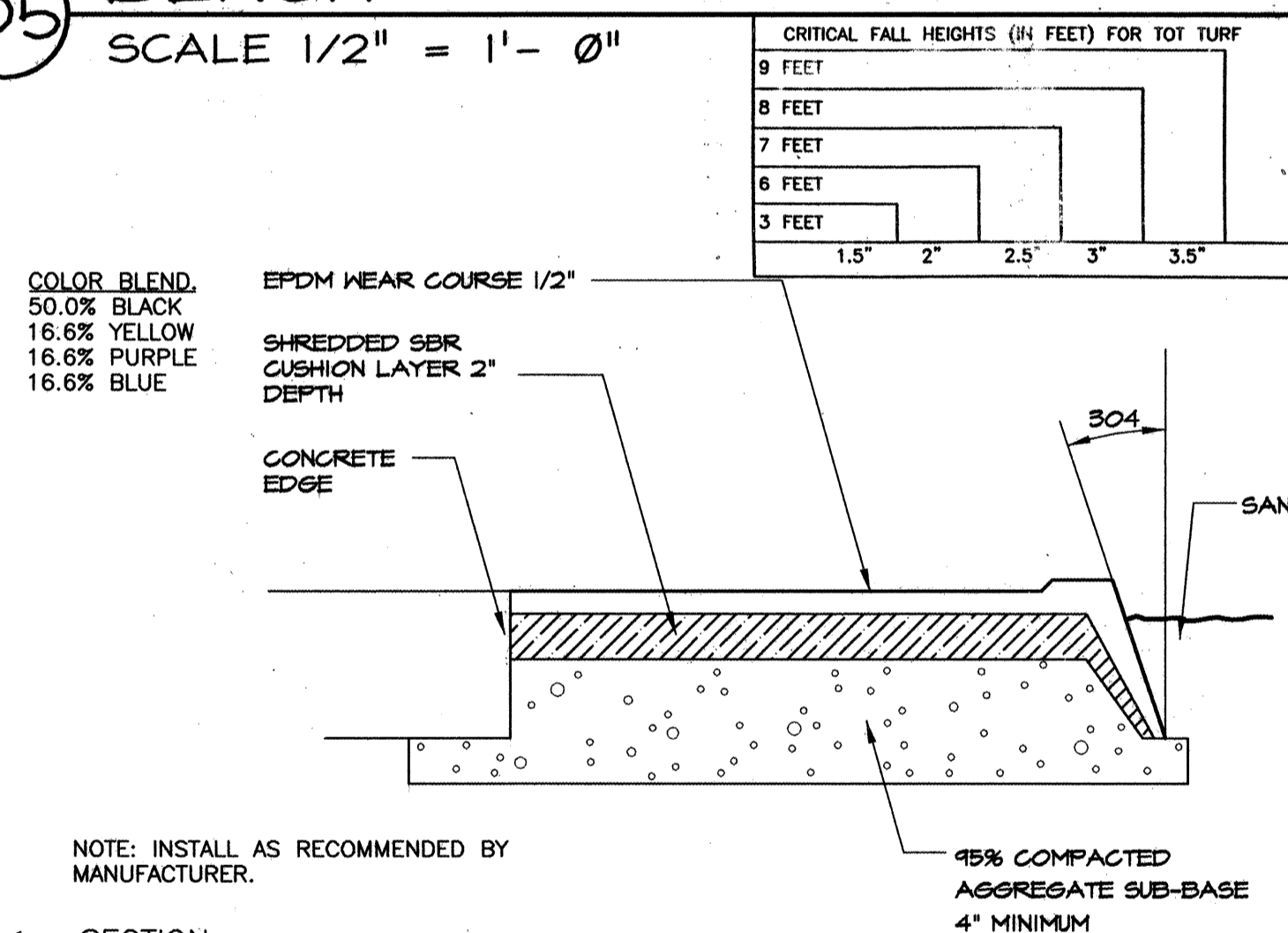
## D3 STEPPING STONES SCALE 1/2" = 1'- 0"



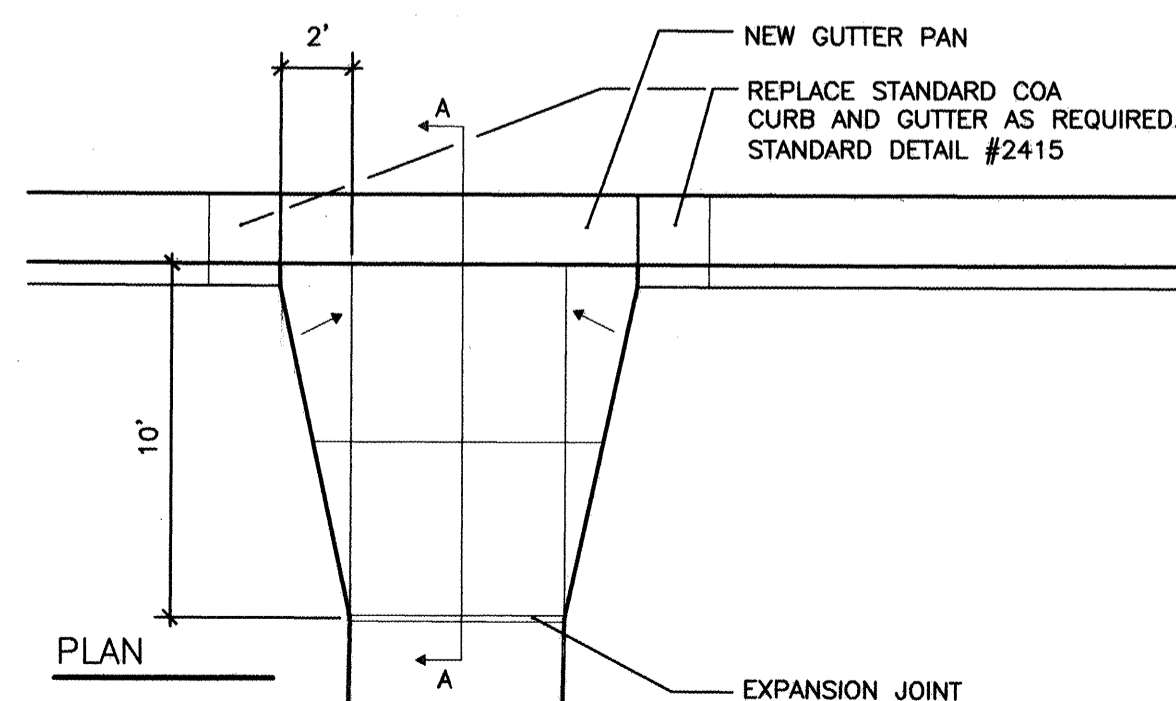
## D4 BENCH SCALE 1/2" = 1'- 0"



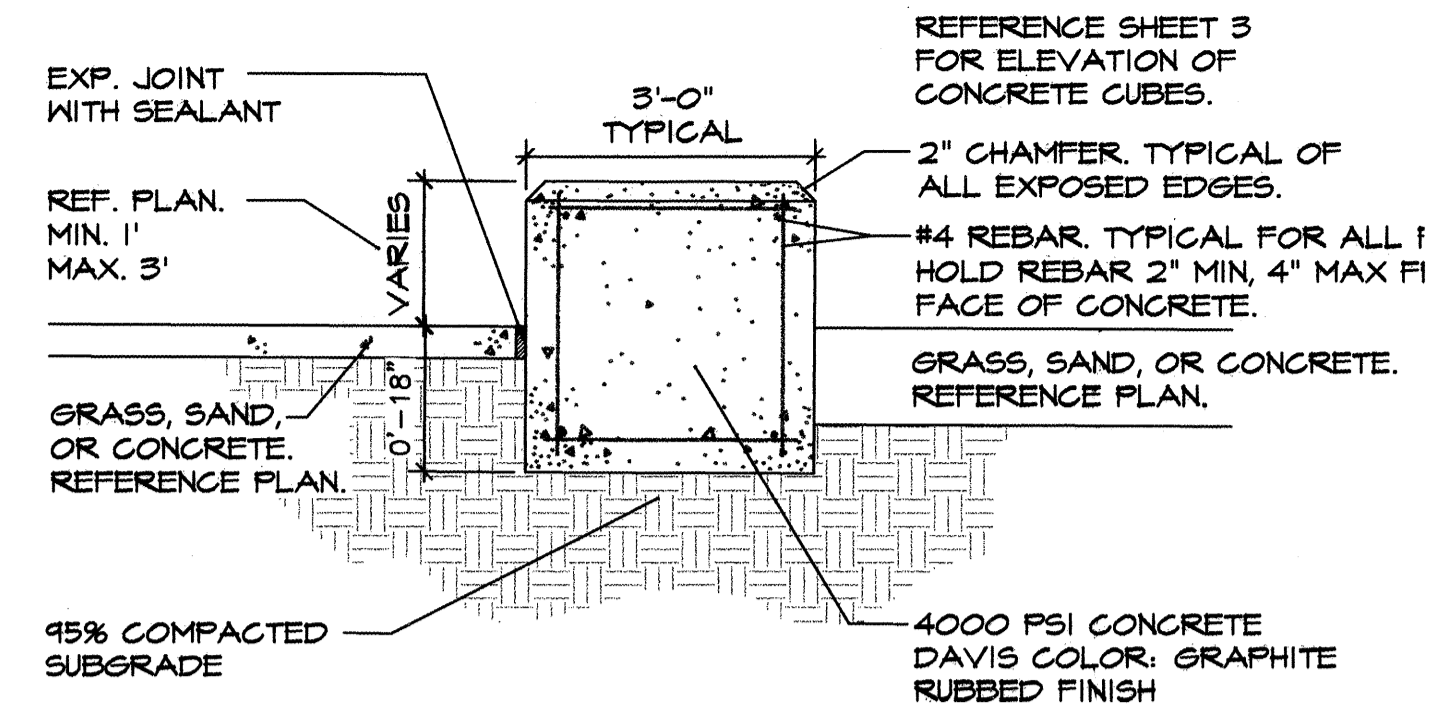
## D5 BENCH SCALE 1/2" = 1'- 0"



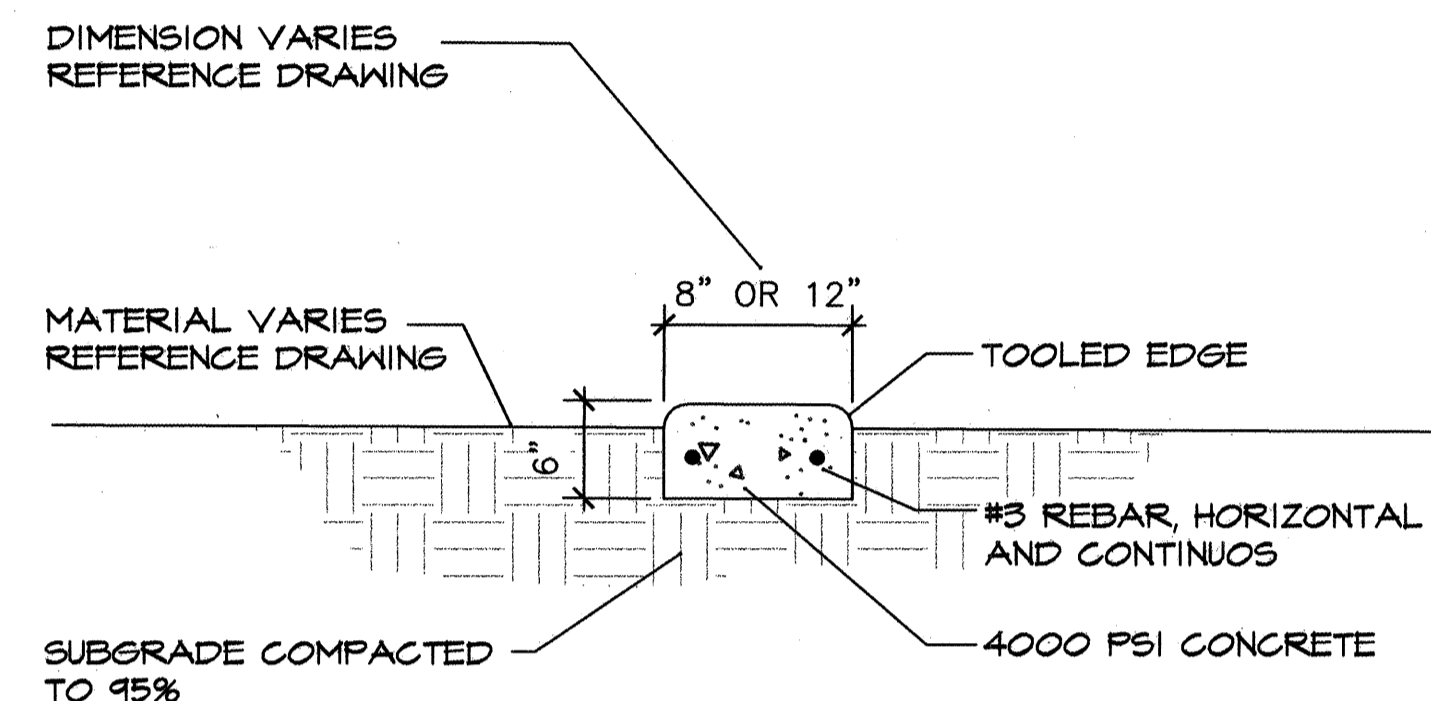
## D6 RESILIENT SURFACING NTS



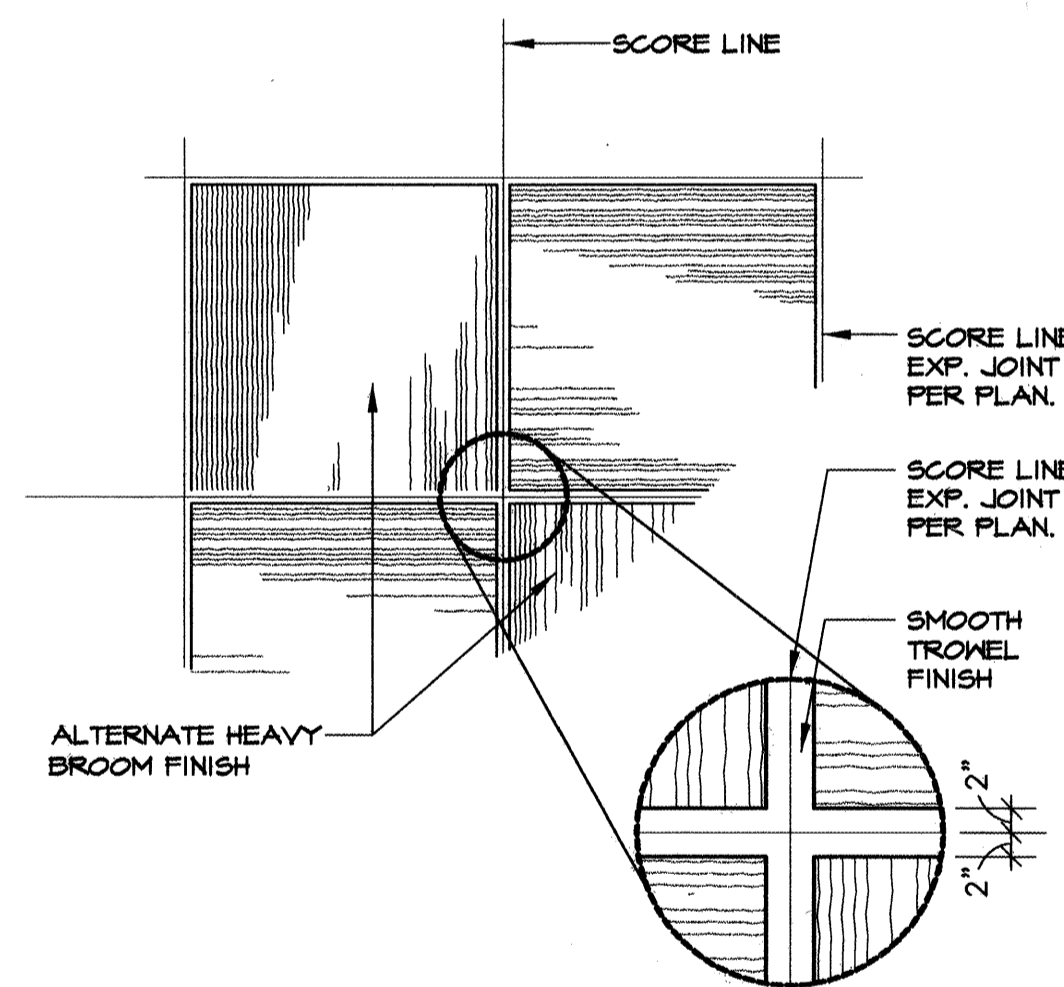
## D7 WHEEL CHAIR RAMP NTS



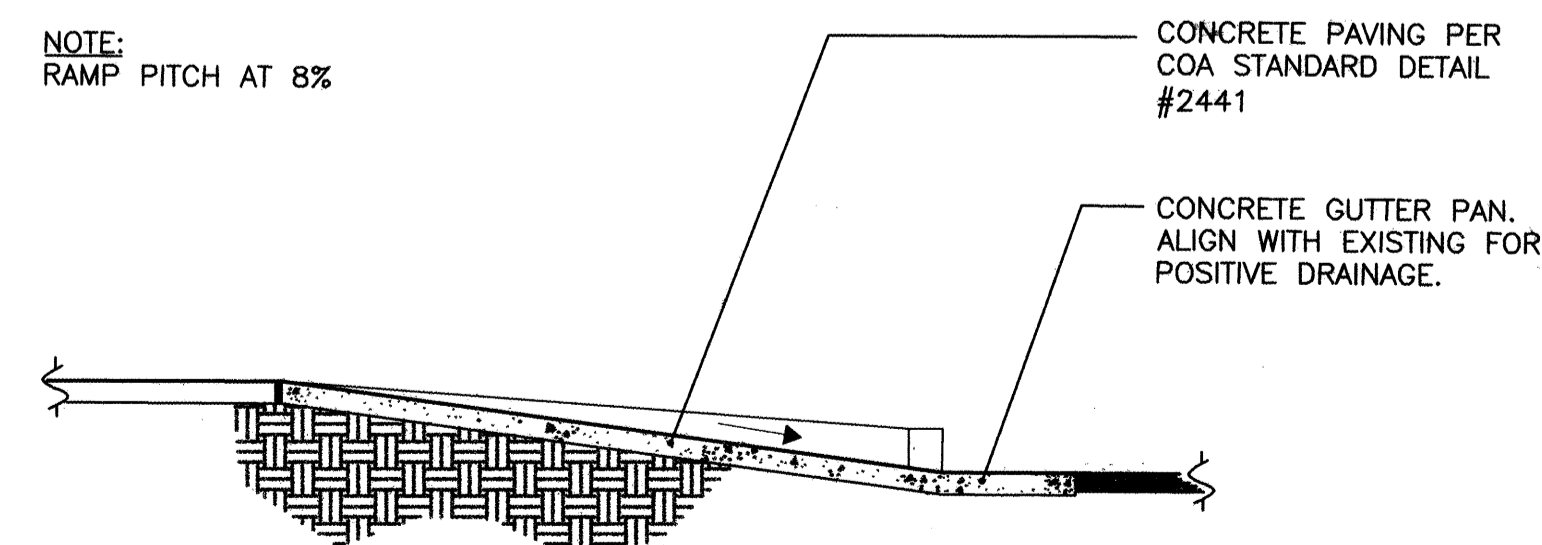
## D8 CONCRETE CUBES SCALE 1/2" = 1'- 0"



## D9 CONCRETE MOW CURB SCALE 3/4" = 1'- 0"



## D10 CONCRETE FINISHING NTS



FOR INFORMATION ONLY  
TOP SURFACE ONLY

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: FOX MEMORIAL PARK - PLAYGROUND RENOVATION CONSTRUCTION DETAILS	
Design Review Committee	City Engineer Approval
APPROVED	APPROVED
DESIGN REVIEW COMMITTEE	CITY ENGINEER
City Project No. 629391	Zone Map No. K-18
Sheet 6	Of 9



# CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 48 HOURS PRIOR TO 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.
- 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.

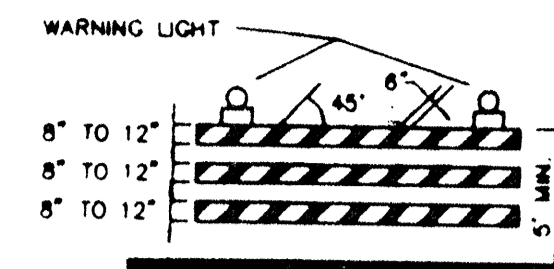
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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

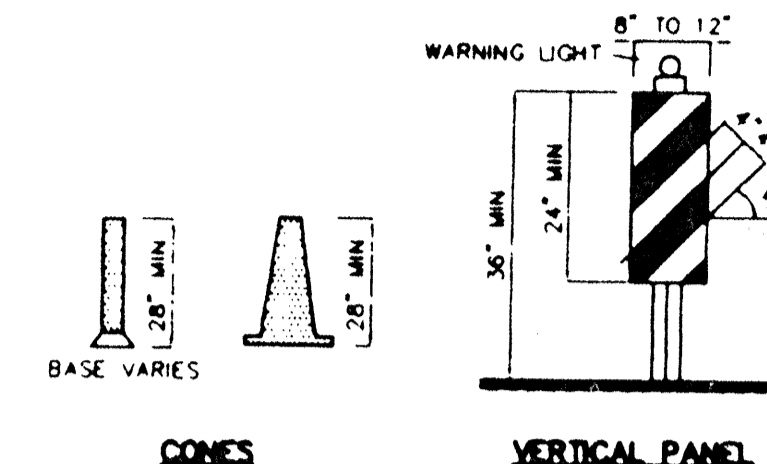
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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 MUTCD.

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



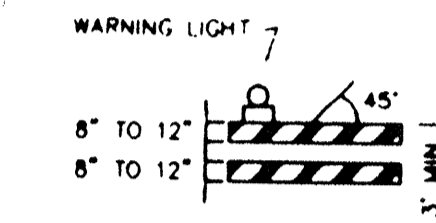
TYPE II BARRICADE



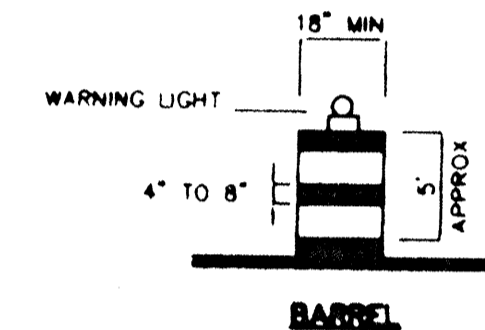
CONES

VERTICAL PANEL

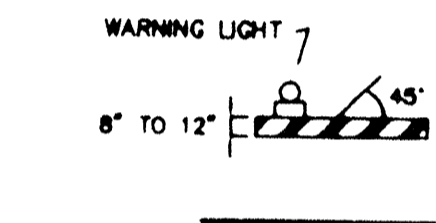
HIGH LEVEL WARNING DEVICE



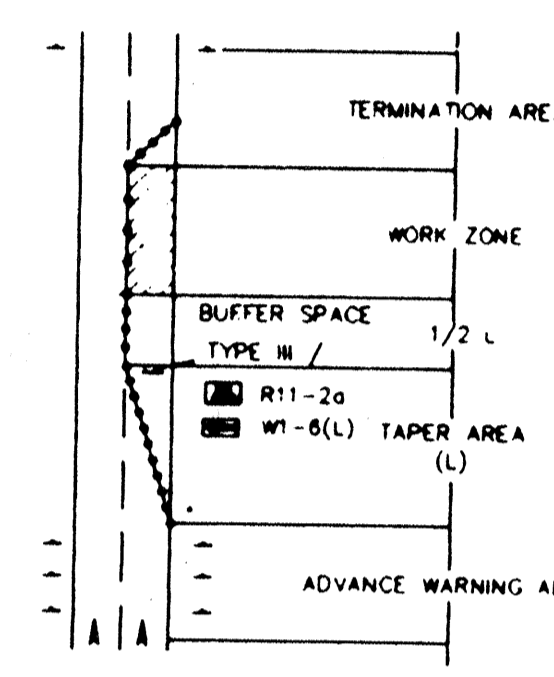
TYPE I BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

## LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET

## TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		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 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

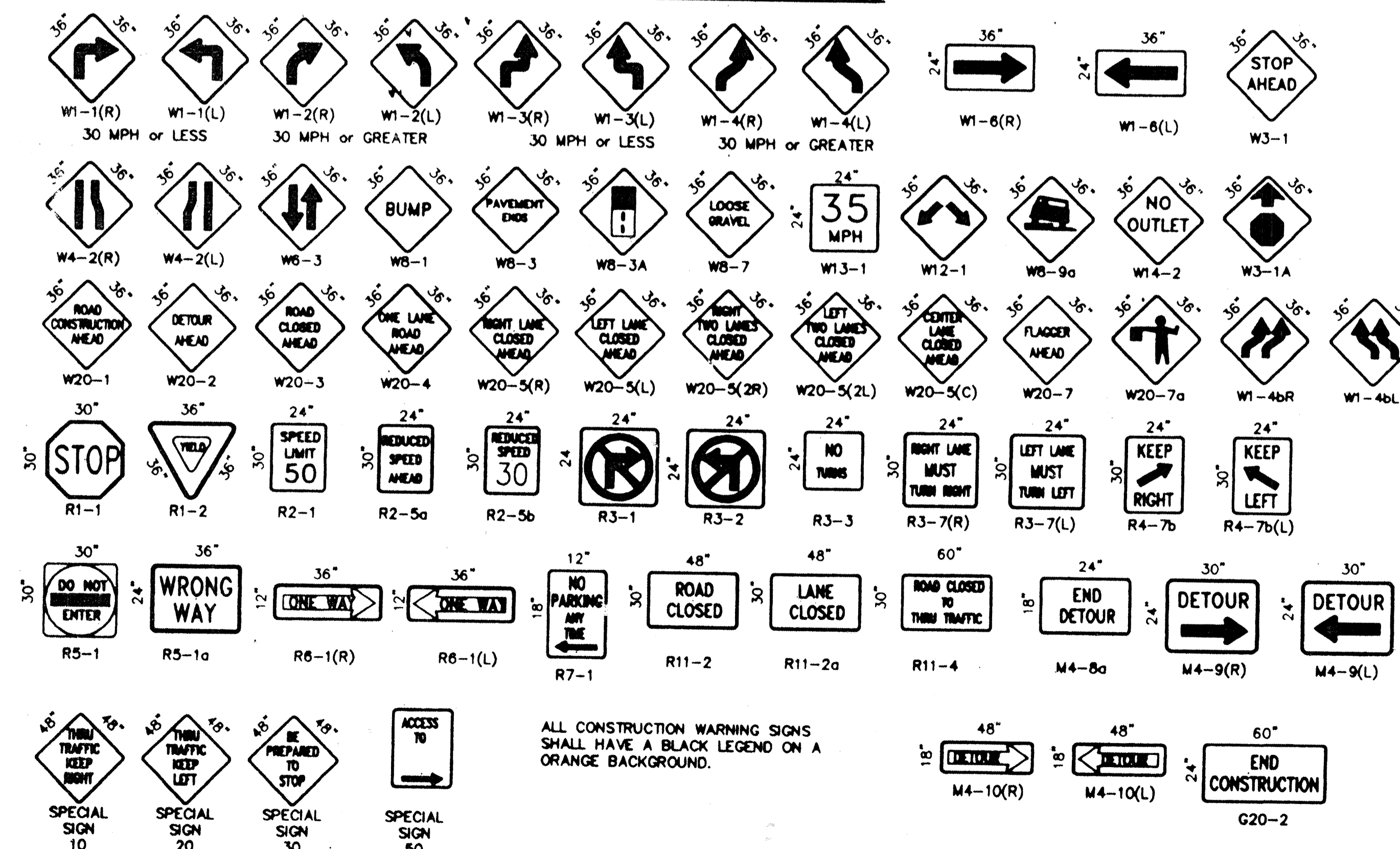
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTER TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

## TAPER LENGTH COMPUTATION

SPEED LIMIT	L = W x S
40 MPH OR LESS	L = W x 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

## SIGN FACE DETAILS



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

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: <b>SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS</b>	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
PROJECT NO. 629391	MAP NO. K-18
SHEET NO. 9	DATE

