

AUGUST 13, 1997

CONSTRUCTION DOCUMENTS
CLASS II CONSTRUCTION

EAGLE RANCH PARK

~~CONGRESS HEIGHTS PARK~~
3500 1/2 CONGRESS AVENUE

CAPITAL IMPLEMENTATION PROGRAM
CITY OF ALBUQUERQUE

INDEX OF DRAWINGS

TITLE

COVER SHEET

LAYOUT PLAN-MAIN PARK AREA

LAYOUT PLAN-WEST SIDE END AND SOUTH END OF PARK

TENNIS COURT, BASKETBALL COURT LAYOUT/SITE DETAILS
DETAILS

PLAY AREA COMPONENT DETAILS

PLAY AREA ENLARGEMENT LAYOUT

STRIPING PLAN DETAIL

GRADING PLAN

DRAINAGE PLAN AND CALCULATIONS-SECTION AND DETAILS

STORM DRAIN PLAN AND PROFILE

IRRIGATION PLAN-MAIN PARK AREA

IRRIGATION LEGEND/CHARTS AND DETAILS

PLANTING PLAN-MAIN PARK AREA

PLANTING LEGEND AND DETAILS

SHEET NO.

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L-1 OF 15

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G-2 OF 15

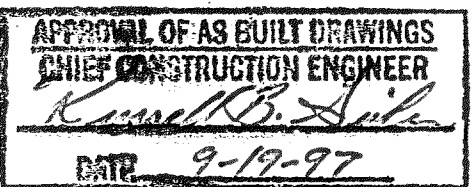
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I-1 OF 15

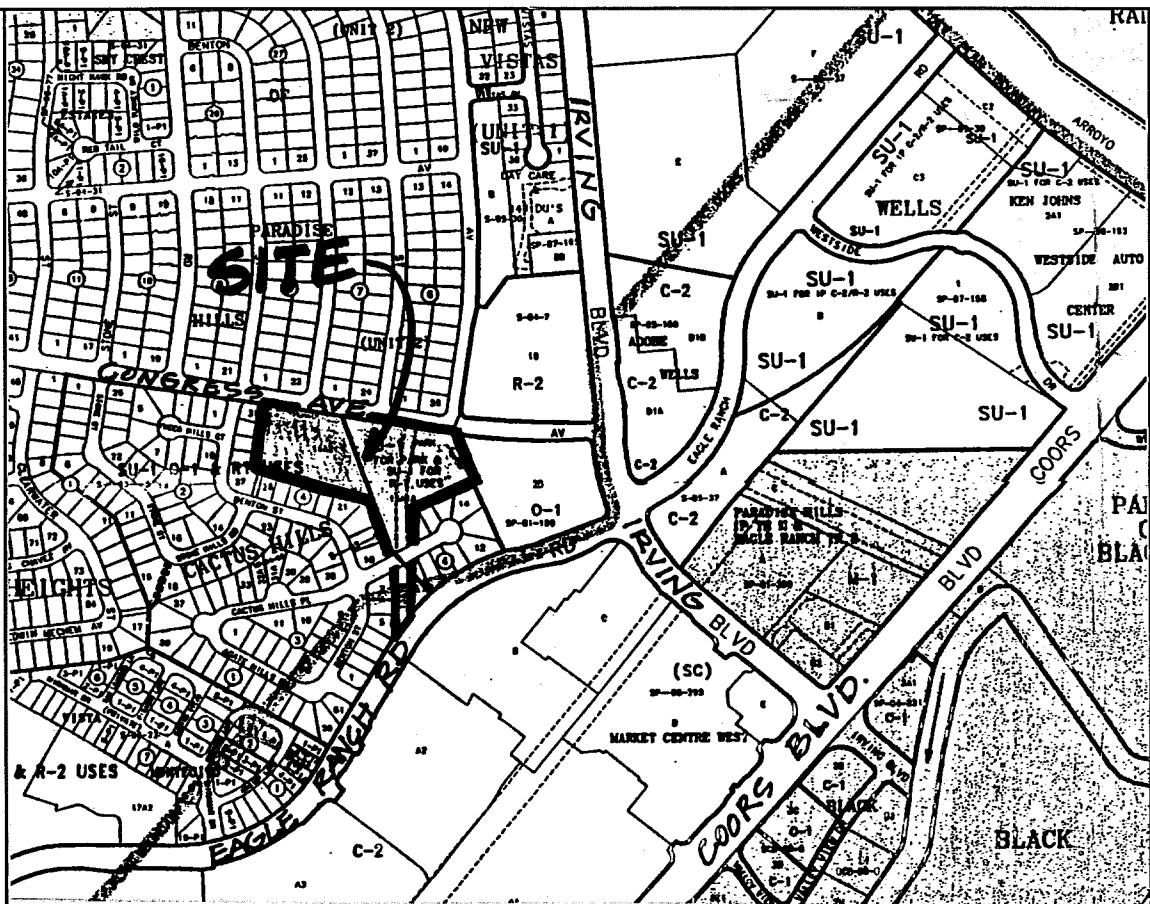
I-2 OF 15

P-1 OF 15

P-2 OF 15



SET NUMBER: _____



NOT TO SCALE
VICINITY MAP

B-13-Z/C-13-Z

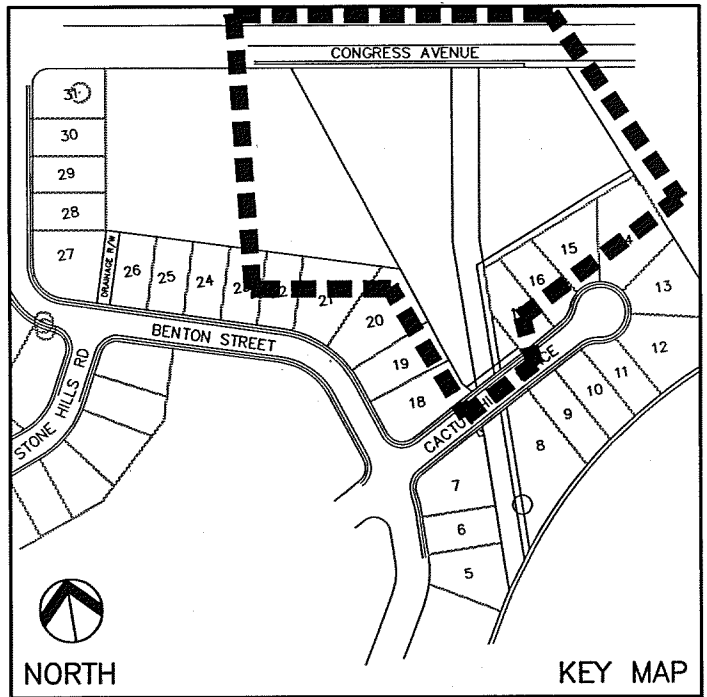
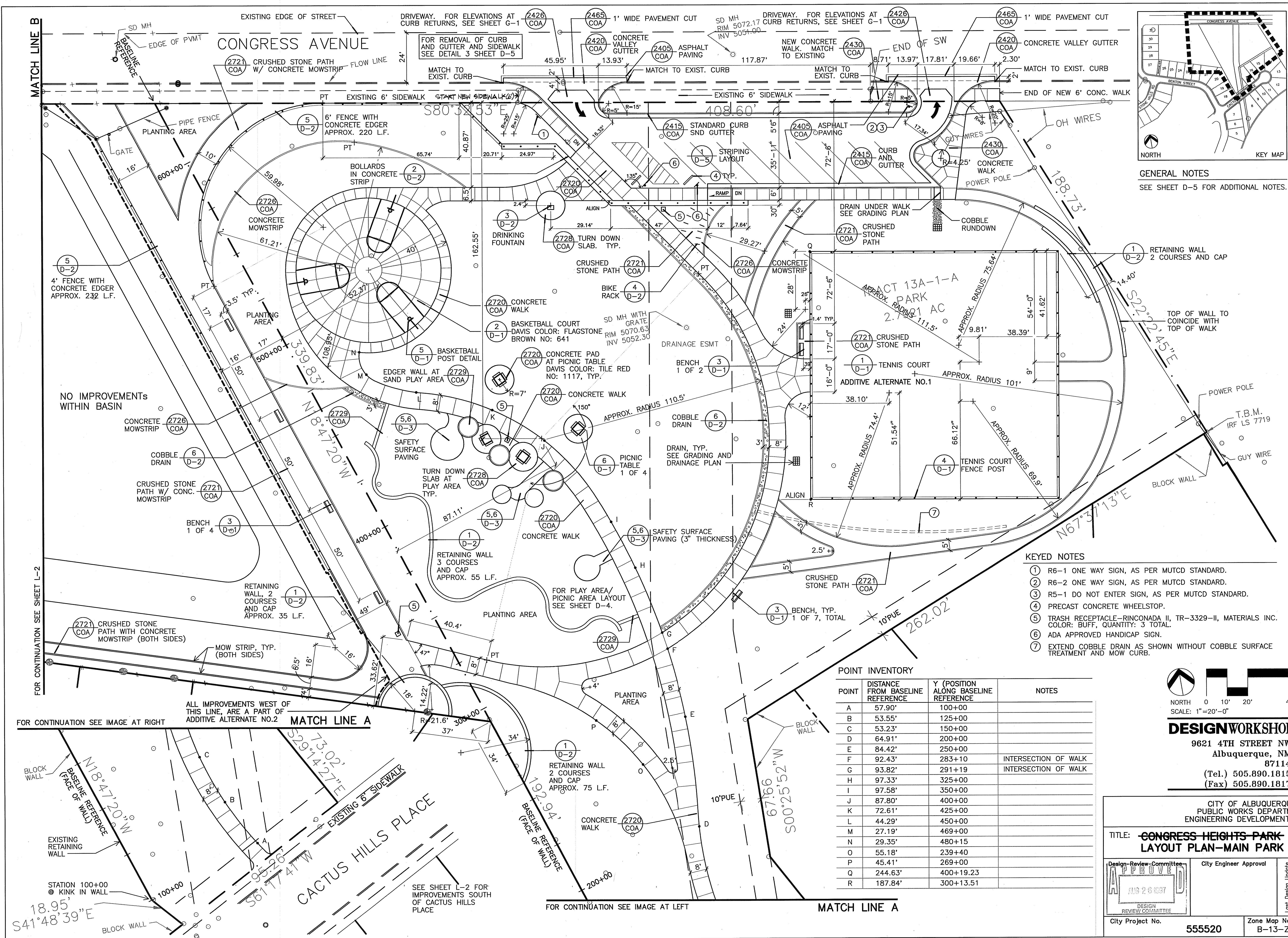
- ALL WORK TO BE IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS, 1986 EDITION (AS UPDATED WITH REVISION #6), AND PER ATTACHED SPECIFICATIONS.
- ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES INCORPORATED SPECIFICATIONS FOR WATER AND WASTE WATER FACILITIES. THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES (898-2661) 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION OF THE UTILITIES.
- (5) FIVE WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. REFER TO SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- (2) 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 CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS.
- ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO EXISTING LOCATIONS OR AS INDICATED BY THIS PLAN SET.
- THE CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL SYSTEM PHONE: 260-1990, TO LOCATE UNDERGROUND UTILITIES 2 WORK DAYS PRIOR TO BEGINNING EXCAVATION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, UNLESS NOTED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS AND SIDEWALKS DURING CONSTRUCTION APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER CITY OF ALBUQUERQUE STANDARDS AT HIS OWN EXPENSE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS, HORIZONTAL AND VERTICAL, AND SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY.
- FOR PURPOSES OF THIS PROJECT THE TERM ENGINEER SHALL REFER TO EITHER THE OWNER'S EMPLOYEE OR THE LANDSCAPE ARCHITECT RESPONSIBLE FOR CONSTRUCTION INSPECTION OF THE PROJECT.
- ALL REFERENCES TO COMPACTED BACKFILL OR COMPACTED SUBGRADE SHALL MEAN SOIL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 UNLESS OTHERWISE NOTED.
- 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.

DESIGNWORKSHOP

9621 4TH STREET NW
Albuquerque, NM
87114
(Tel.) 505.890.1815
(Fax) 505.890.1817

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
LANDSCAPE ARCHITECT'S SEAL	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
	DRC CHAIRMAN	Billy G. Bartley	8-26-97				
	TRANSPORTATION	Bob King	8-26-97				
	WATER/WASTEWATER	John Smith	8-26-97				
	HYDROLOGY	John Hogg	8/26/97				
	C.I.P.	John Williams	8/26/97				
	CONSTR. MNGMT.						
	N.M. UTILITIES						
	City Project Number	555520					
	Sheet	C1					
	Of	15					

26-5555-20001197

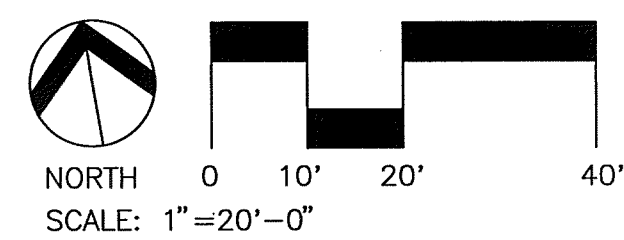


GENERAL NOTES
SEE SHEET D-5 FOR ADDITIONAL NOTES.

- KEYED NOTES**
- ① R6-1 ONE WAY SIGN, AS PER MUTCD STANDARD.
 - ② R6-2 ONE WAY SIGN, AS PER MUTCD STANDARD.
 - ③ R5-1 DO NOT ENTER SIGN, AS PER MUTCD STANDARD.
 - ④ PRECAST CONCRETE WHEELSTOP.
 - ⑤ TRASH RECEPTACLE-RINCONADA II, TR-3329-II, MATERIALS INC. COLOR: BUFF, QUANTITY: 3 TOTAL.
 - ⑥ ADA APPROVED HANDICAP SIGN.
 - ⑦ EXTEND COBBLE DRAIN AS SHOWN WITHOUT COBBLE SURFACE TREATMENT AND MOW CURB.

POINT INVENTORY

POINT	DISTANCE FROM BASELINE REFERENCE	Y (POSITION ALONG BASELINE REFERENCE)	NOTES
A	57.90'	100+00	
B	53.55'	125+00	
C	53.23'	150+00	
D	64.91'	200+00	
E	84.42'	250+00	
F	92.43'	283+10	INTERSECTION OF WALK
G	93.82'	291+19	INTERSECTION OF WALK
H	97.33'	325+00	
I	97.58'	350+00	
J	87.80'	400+00	
K	72.61'	425+00	
L	44.29'	450+00	
M	27.19'	469+00	
N	29.35'	480+15	
O	55.18'	239+40	
P	45.41'	269+00	
Q	244.63'	400+19.23	
R	187.84'	300+13.51	



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **CONGRESS HEIGHTS PARK EAGLE RANCH PARK LAYOUT PLAN-MAIN PARK AREA**

Design-Review Committee: **APPROVED** AUG 26 1997
City Engineer Approval: _____
Last Design Update: _____

City Project No. **555520** Zone Map No. **B-13-Z** Sheet **L-1** of **15**

REVISIONS
NO. DATE BY
1 4-97
2 8-13-97
3 8-13-97

AS-BUILT INFORMATION

CONTRACTOR: _____
WORK STARTED BY: _____ DATE: _____
FIELD ACCEPTANCE BY: _____ DATE: _____
DESIGNED BY: _____ DATE: _____
DRAWN BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____

BENCH MARKS

ACSA-B-13
ACSA-B-13, X=375489.27, Y=1525104.55
GROUND TO GRID FACTOR=0.9996705
Δα = 0° 14' 25"
ELEVATION=5169.511
NAD 1927
CENTRAL ZONE

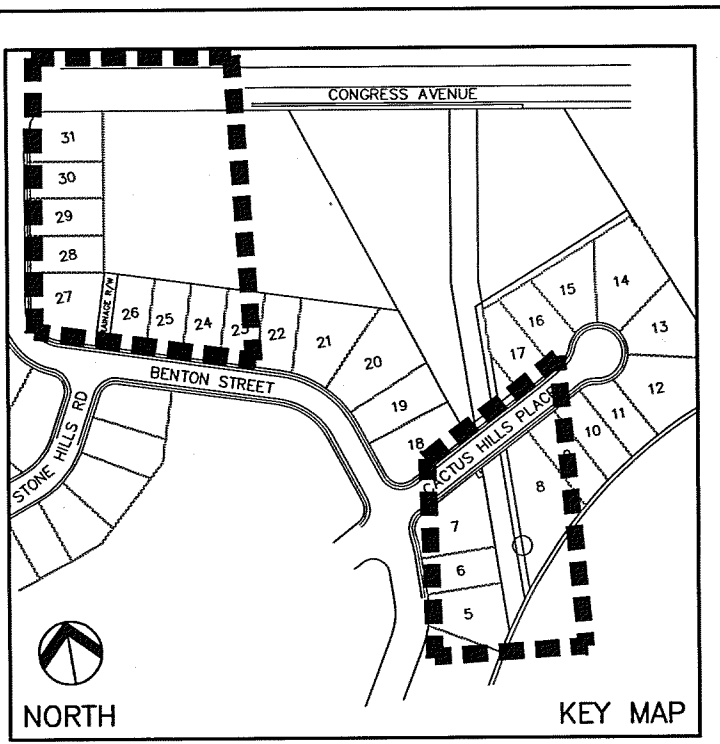
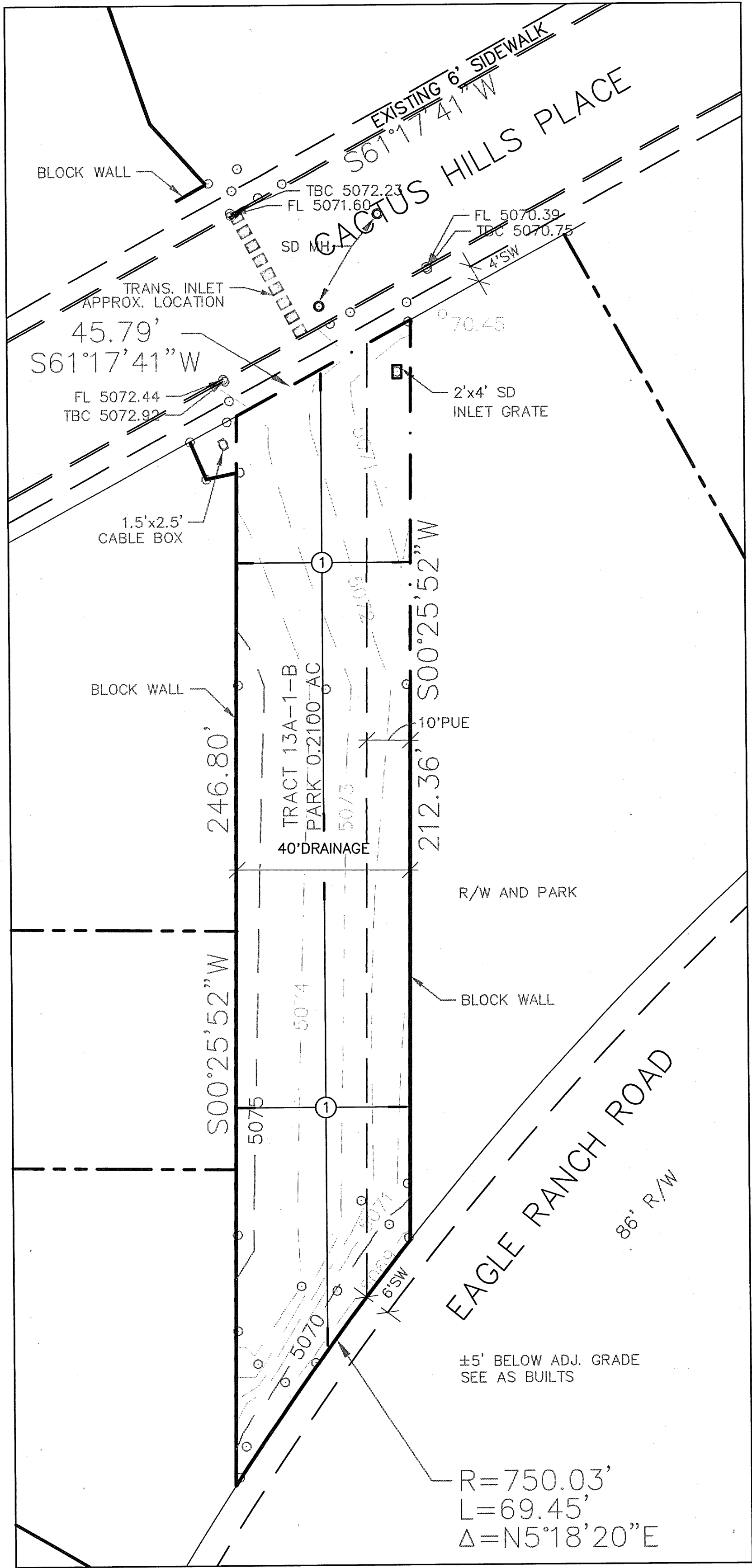
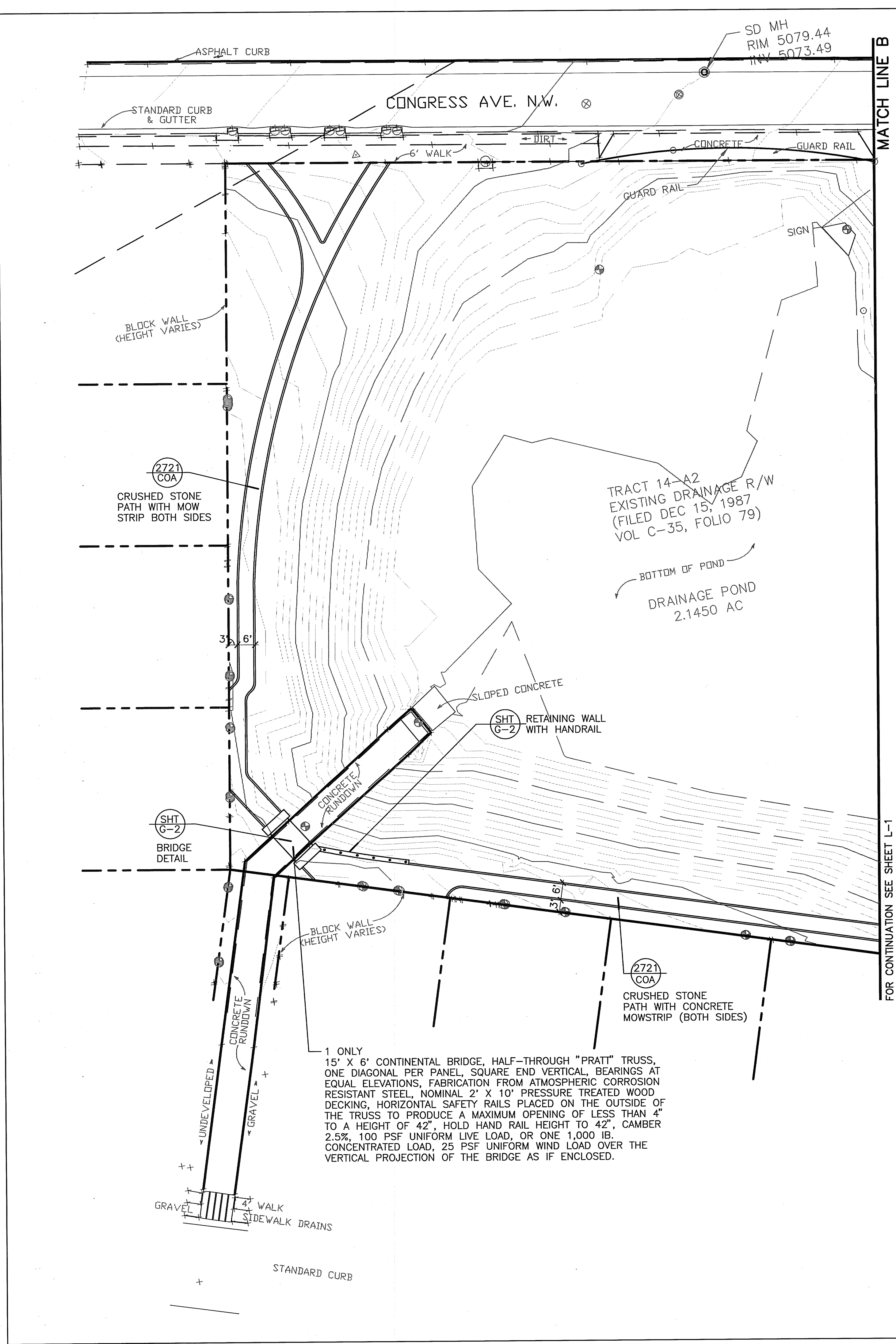
SURVEY INFORMATION

FIELD NOTES BY: _____ DATE: _____
NO. _____

LANDSCAPE ARCHITECT'S SEAL

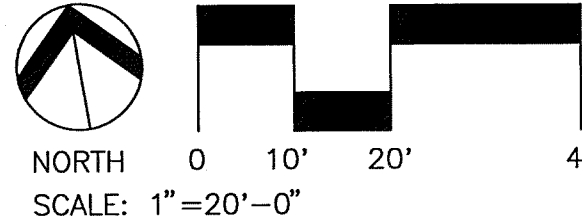
DATE 4-97
DATE 8-13-97
DATE 8-13-97

26-15555.20 40197



KEYED NOTES

① SEED AREA WITH NATIVE SEED MIX. AVAILABLE FROM: CURTIS & CURTIS, INC. SEE SHEET P-2 FOR MIX AND RATE. AREA APPROXIMATELY 1 AC. INSTALL PER COA STANDARD SPECIFICATIONS WITH STRAW MULCH CRIMPING THROUGHOUT AND EROSION CONTROL MATTS ON SLOPES GREATER THAN 3:1.



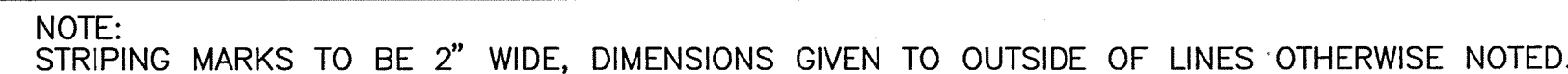
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(Fax) 505.890.1817

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK LAYOUT PLAN—WEST SIDE END & SOUTH END OF PARK	
Design-Review-Committee APPROVED AUG 26 1997 DESIGN REVIEW COMMITTEE	City Engineer Approval Last Design Update
City Project No. 555520	Zone Map No. B-13-Z
Sheet L-2 Of 15	

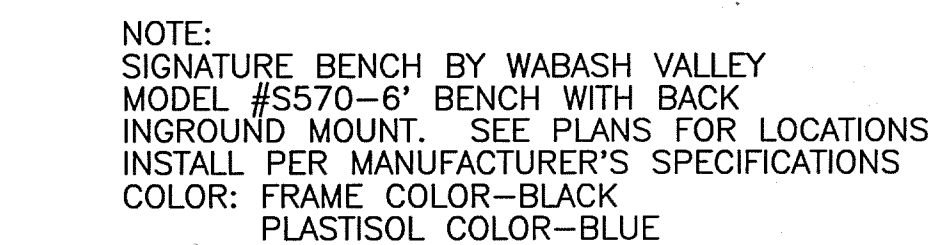
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26-15555. 2026297



NTS



NTS



SECTION

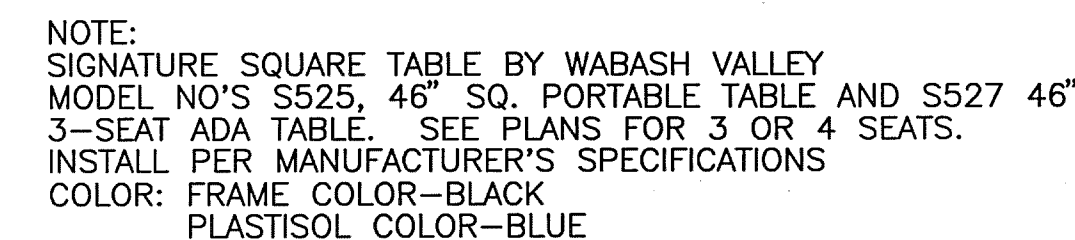
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NTS



NTS



PICNIC TABLE

NT

(Fax) 505.890.1817

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LANDSCAPE ARCHITECT'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
				FIELD NOTES					
				NO.	BY				
				REMARKS		CONTRACTOR		DATE	
				BY		INSPECTOR'S ACCEPTANCE BY		DATE	
				REVISIONS		VERIFICATION BY		DATE	
				DESIGN		DRAWINGS PREPARED BY		DATE	
				DESIGNED BY AM		MICRO-FILM INFORMATION		DATE	
				DRAWN BY WBT		RECORDED BY		DATE	
				DATE 8-13-97		NO.			
				DATE 8-13-97					



1 RETAINING WALL
D-2

NTS



2 BOLLARD DETAIL
D-2

NTS



- NOTES:
1. DRINKING FOUNTAIN AS AVAILABLE FROM "MOST DEPENDABLE FOUNTAIN CO."
4697 WINCHESTER, MEMPHIS TN. 38118.
TEL: 1-800-552-6331. CONTACT: LYNN GRIFFIN.
 2. LOCAL REPRESENTATIVE: EXERPLAY, INC.
TEL: 1-505-821-9109.
 3. VALVE BOX WITH VALVE AND PLUGGED TEE FOR DRAIN DOWN.

3 DRINKING FOUNTAIN
D-2

NTS



4 BIKE LOOP
D-2

NTS



5 CHAIN LINK FENCE
D-2

NTS



6 COBBLE DRAIN
D-2

NTS

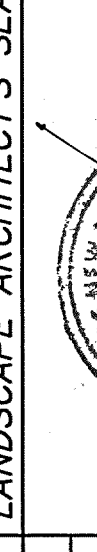
- FENCE
- ① TENSION BAND 15" O.C. MAX.
 - ② 3/16" X 5/8" X 40" STRETCH BAR.
 - ③ CORNER/END POST FOOTING.
 - ④ CONCRETE FOOTING.
 - ⑤ 1 5/8" O.D. TOP RAIL.
 - ⑥ COMPRESSION BRACE.
 - ⑦ 9 GA. X 2" VINYL CLAD MESH FABRIC. TOP AND SELVAGES KNUCKLED UNDER AND WRAPPED FOR SAFETY.
 - ⑧ TRUSS ROD WITH TURNBUCKEL.
 - ⑨ 7 GA. BOTTOM TENSION WIRE WITH HOG RINGS.
 - ⑩ CONCRETE MOWSTRIP, EXPANSION JOINTS @ 20'-0" O.C.
 - ⑪ COMPACTED SUBGRADE.

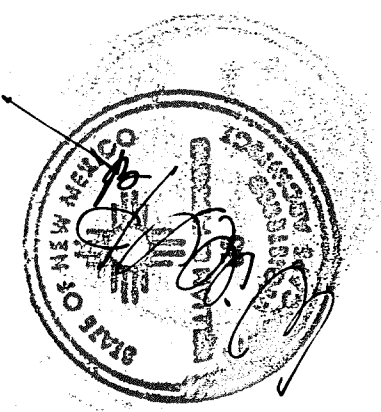
NOTES:

- 1 FOOTING DEPTH TO INCLUDE MOWSTRIP.
- 2 ALL FABRIC, POST AND RAILS TO BE GREEN VINYL CLAD PER SPECIFICATIONS.

FOOTING LEGEND

FENCE HEIGHT	LINE SIZE	POST	LINE FOOTING	CORNER/END POST SIZE	CORNER/END POST FOOTING
UP TO 6'	1.9"	O.D.	24" X 8"	2.375" O.D.	24" X 10"
UP TO 4'	1.9"	O.D.	24" X 8"	2.375" O.D.	24" X 10'

LANDSCAPE ARCHITECT'S SEAL				SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION		
				FIELD NOTES				CONTRACTOR		
				NO.	BY	DATE		DATE STAYED BY	DATE	5/1/98
								INSPECTOR'S ACCEPTANCE BY	DATE	
								VERIFICATION BY	DATE	
								CRANES COMPLETED BY	DATE	
								MICRO-FILM INFORMATION		
								RECORDED BY		
								DATE		
								NO.		



DESIGNWORKSHOP

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ~~CONGRESS HEIGHTS PARK~~ EAGLE RANCH PARK
DETAILS

Design Review Committee
APPROVED
AUG 26 1967
DESIGN
REVIEW COMMITTEE

City Engineer Approval

Last Design Update

Mo.

7. $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$

Mo./Day

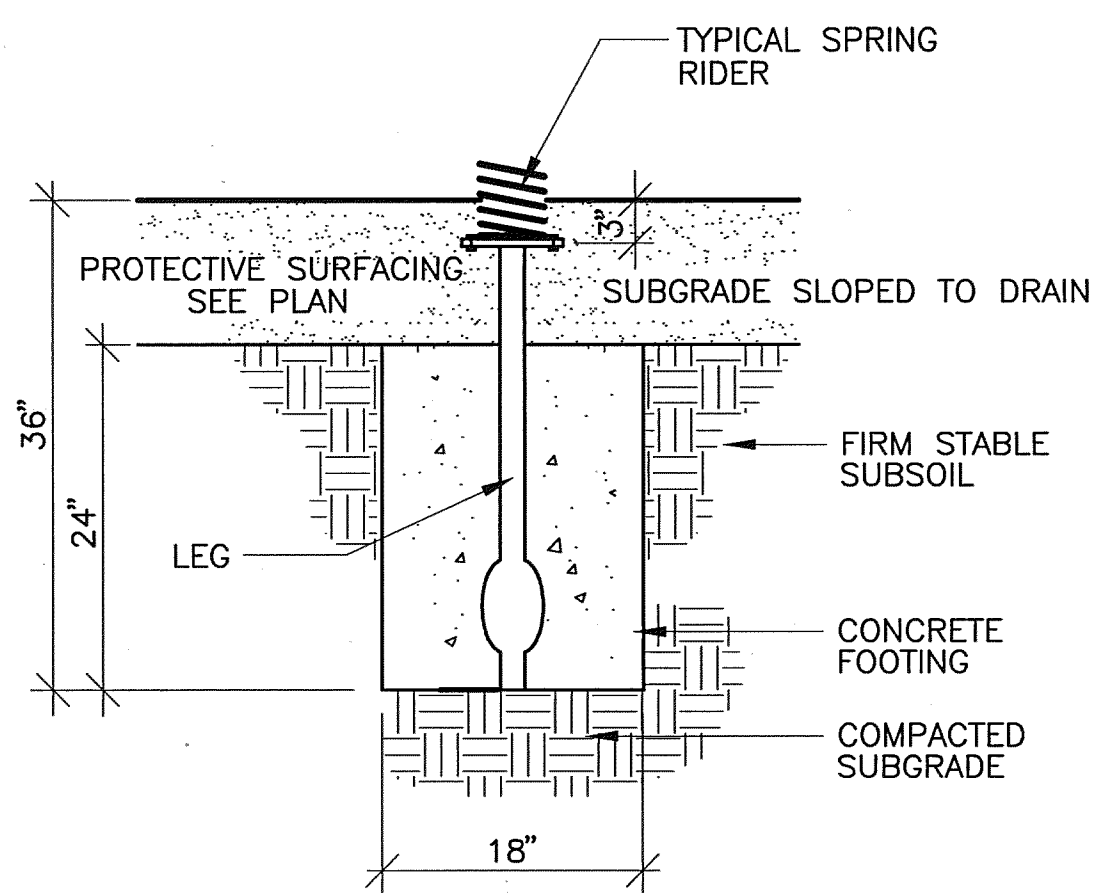
City Project No.

Zone Map No.	
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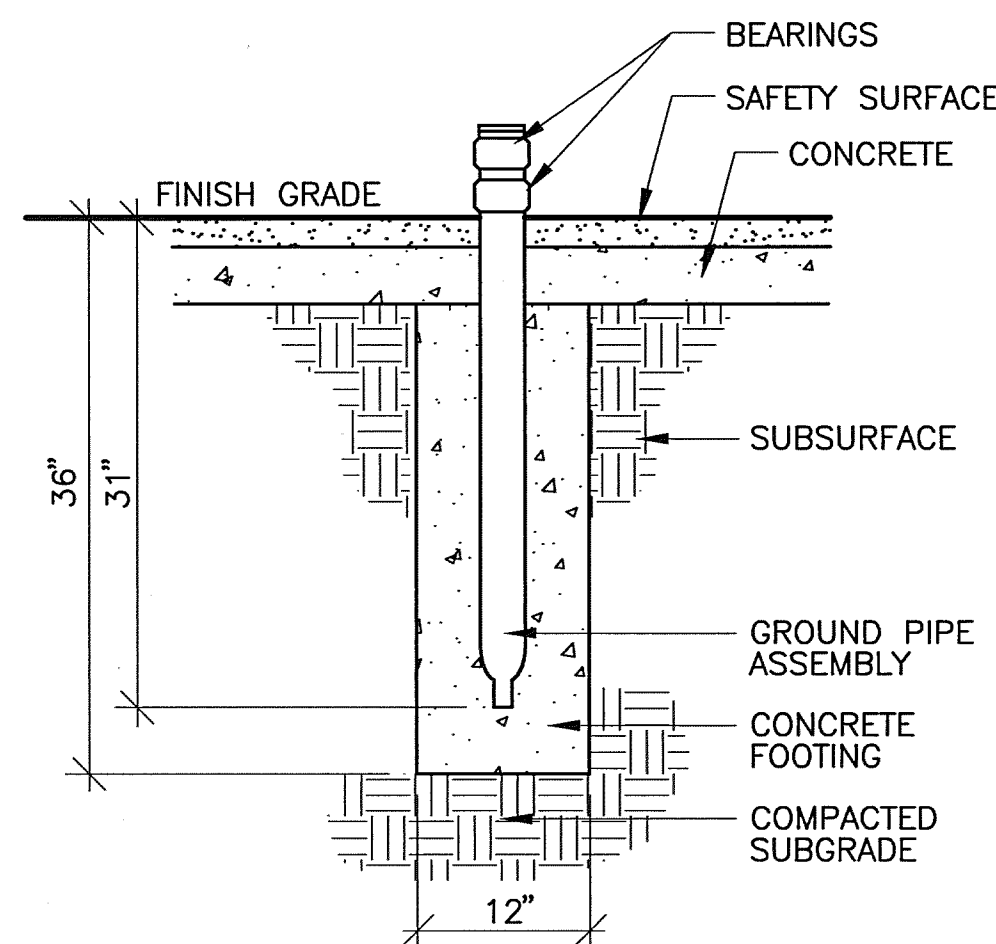
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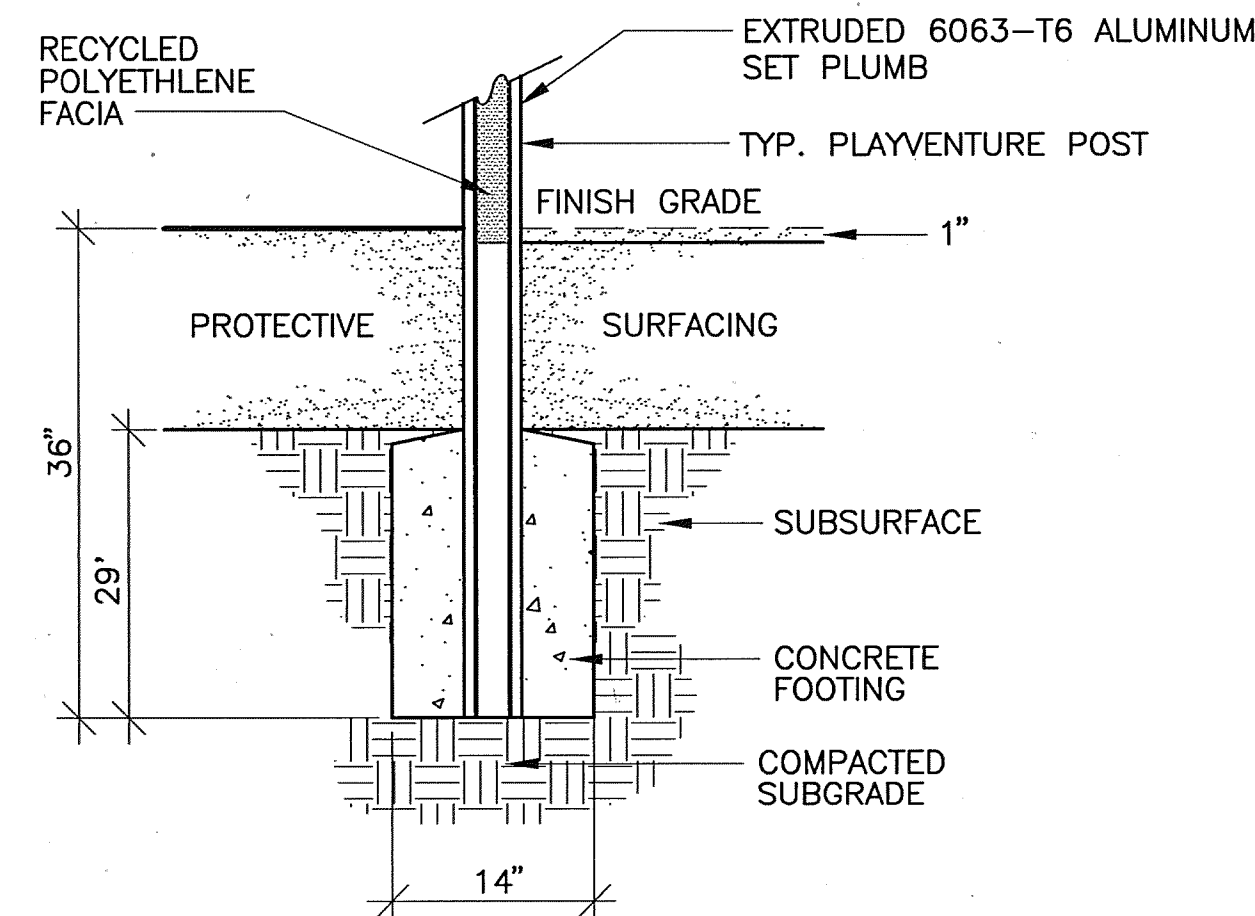
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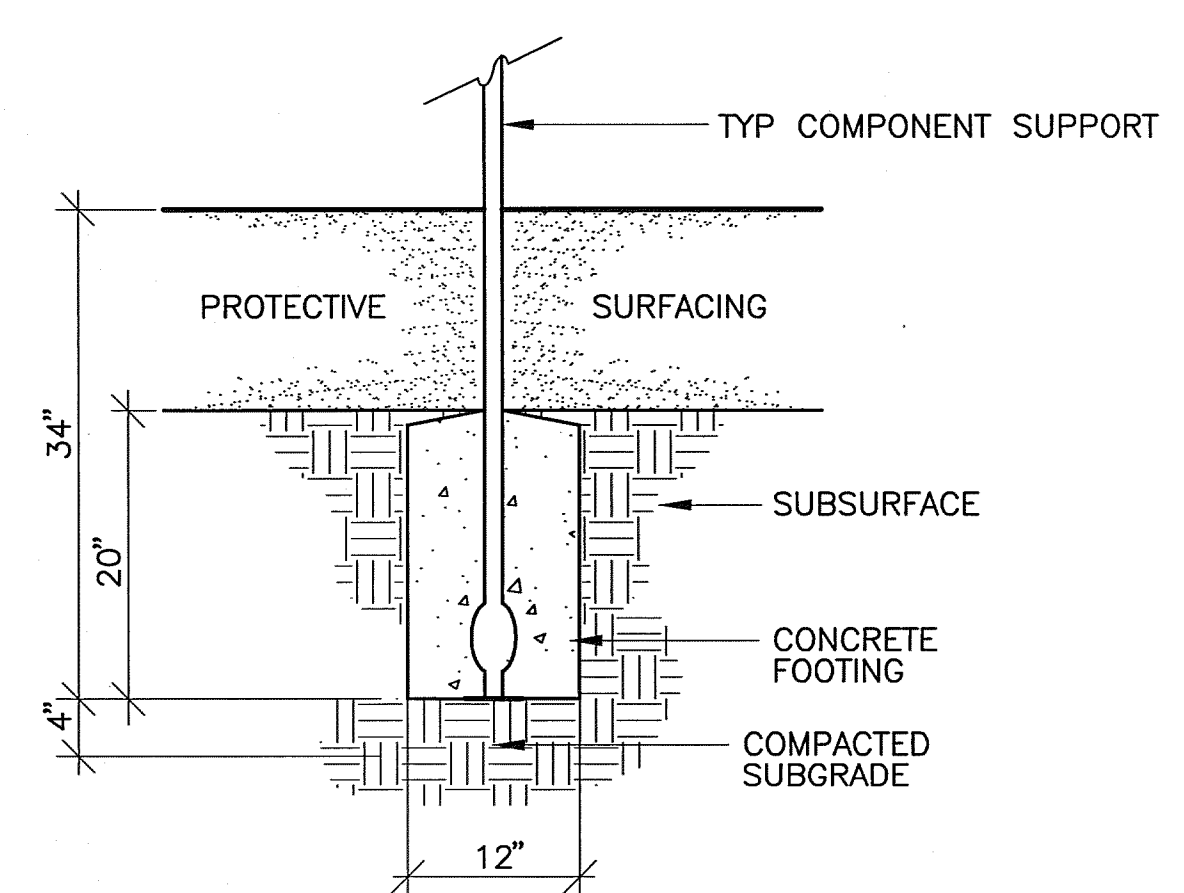
SECTION
1 RHINODINO/T-REX SPRINGRIDER
D-3 NTS



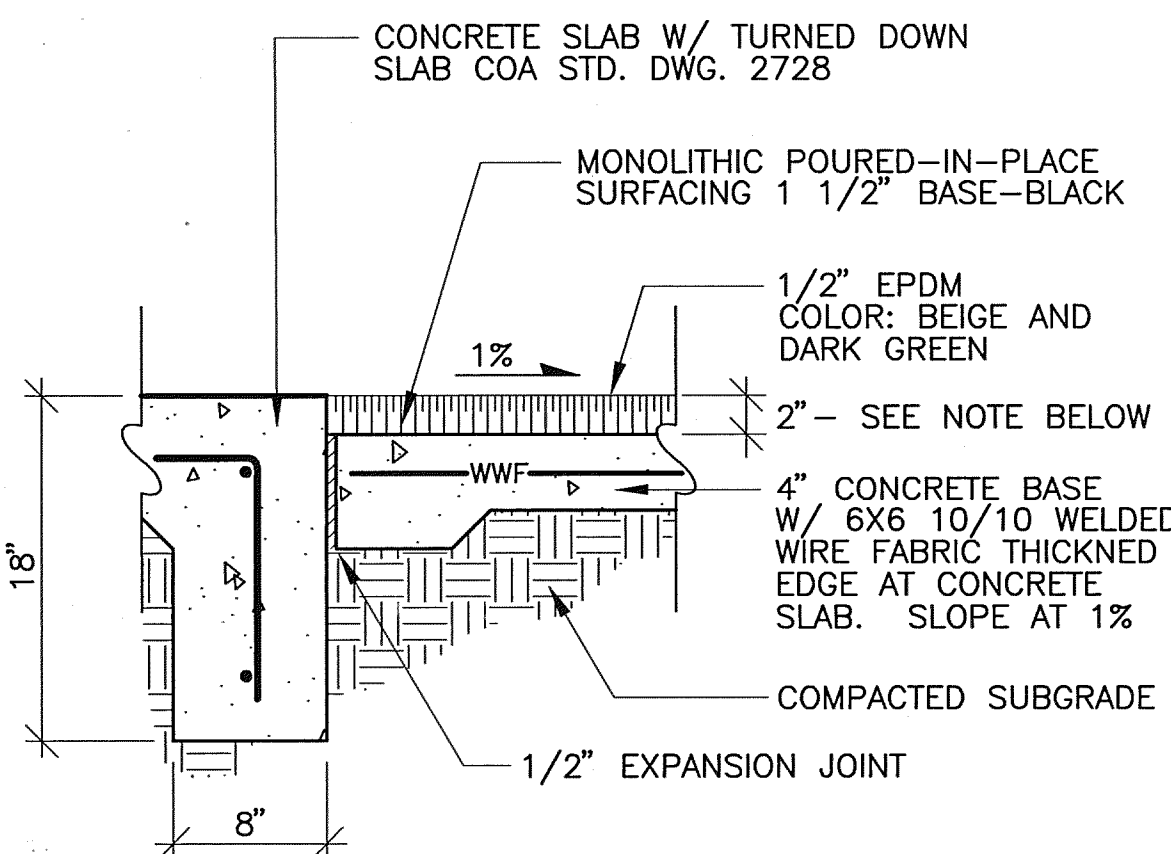
SECTION
2 HANDICAP ACCESSIBLE SUPERSCOOP
D-3 NTS



SECTION
3 TYPICAL POST CONCRETE FOOTING
D-3 NTS
FORM CAMEL

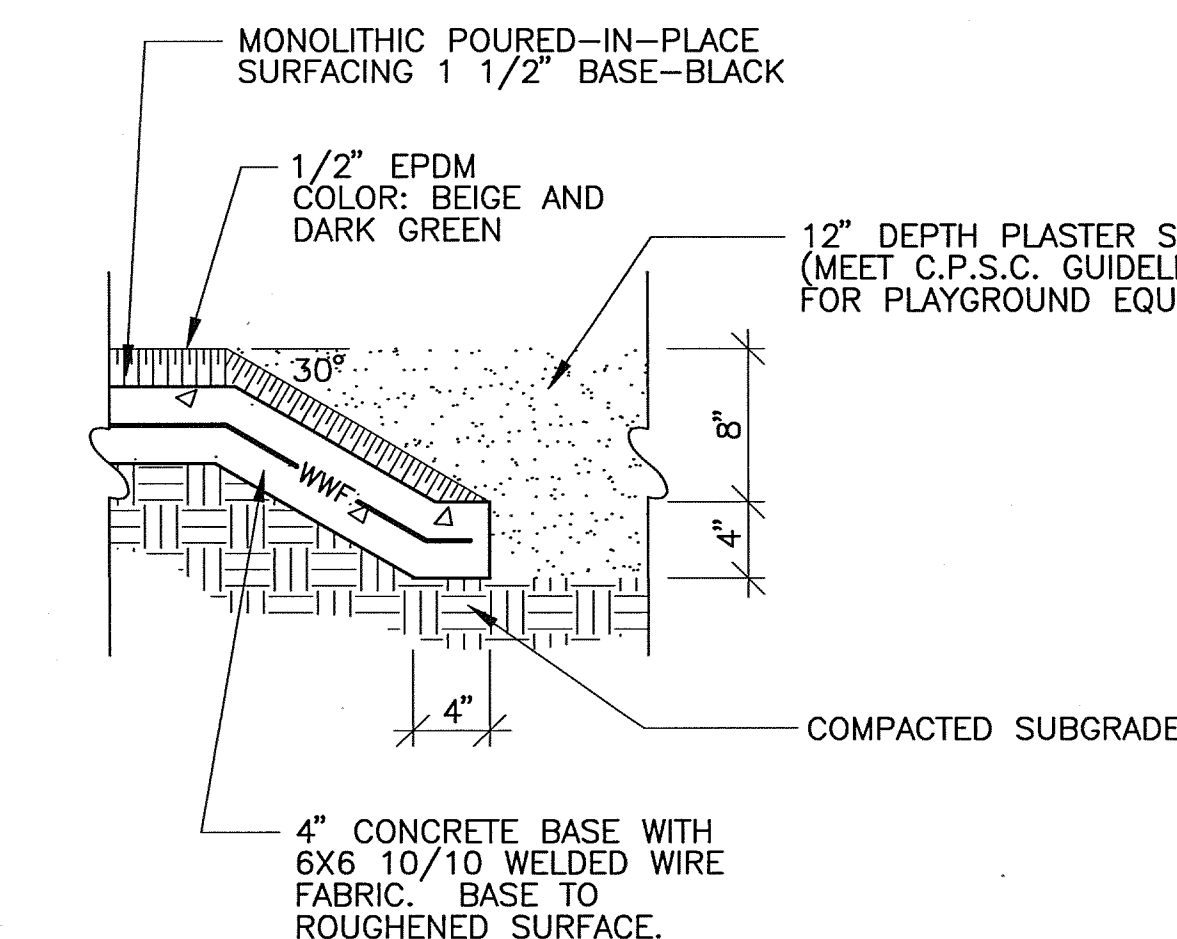


SECTION
4 COMPONENT CONCRETE FOOTING
D-3 NTS

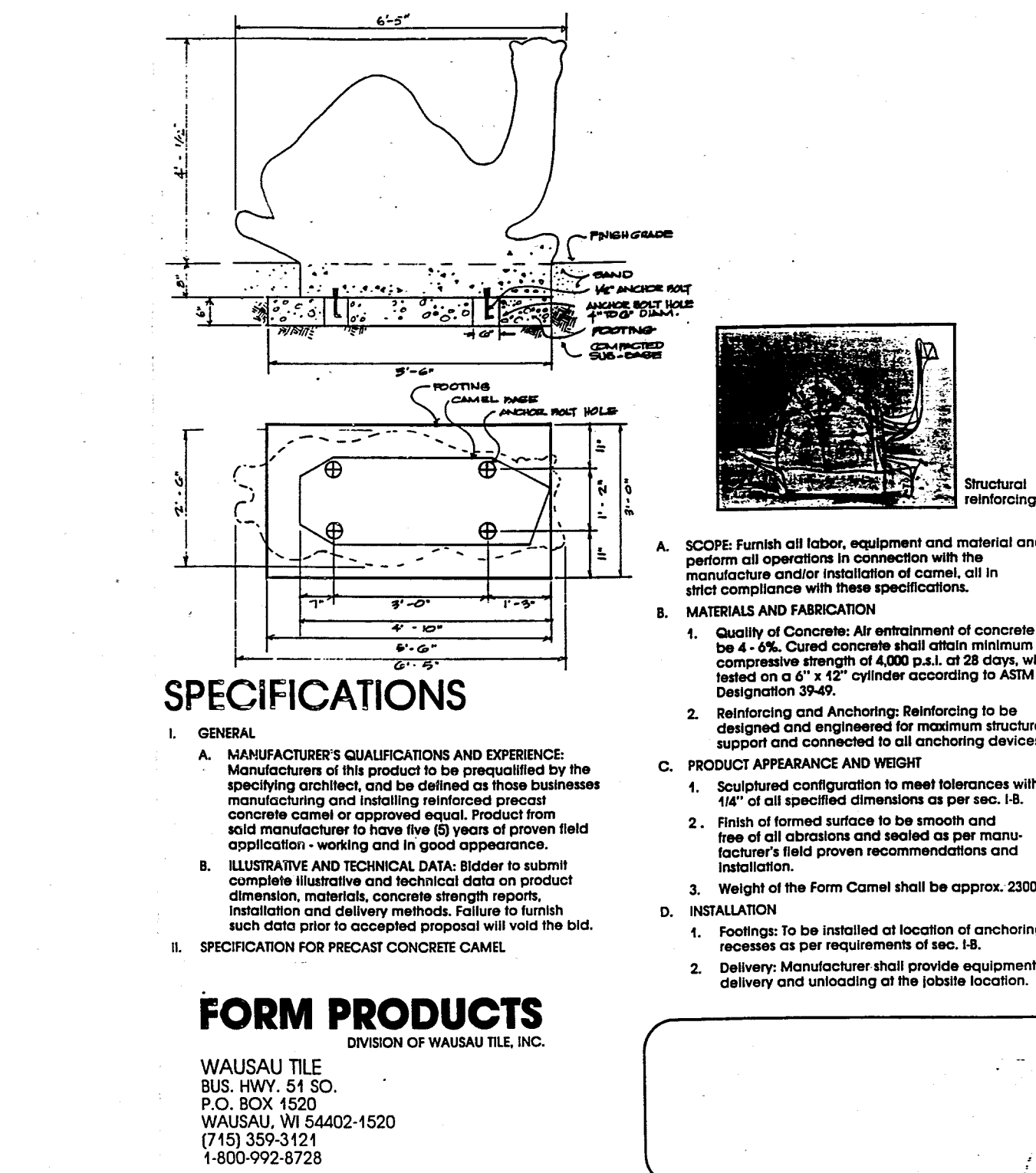


NOTE: MONOLITHIC, POURED-IN-PLACE SURFACING TO BE SURFACE CREATIONS AVAILABLE FROM LEISURE DESIGN SYSTEMS, INC. FOR SWING SET SURFACING, BASE MONOLITHIC POURED IN PLACE SURFACING IS TO BE 2 1/2" THICK 1/2" EPDM FOR A TOTAL THICKNESS OF 3".

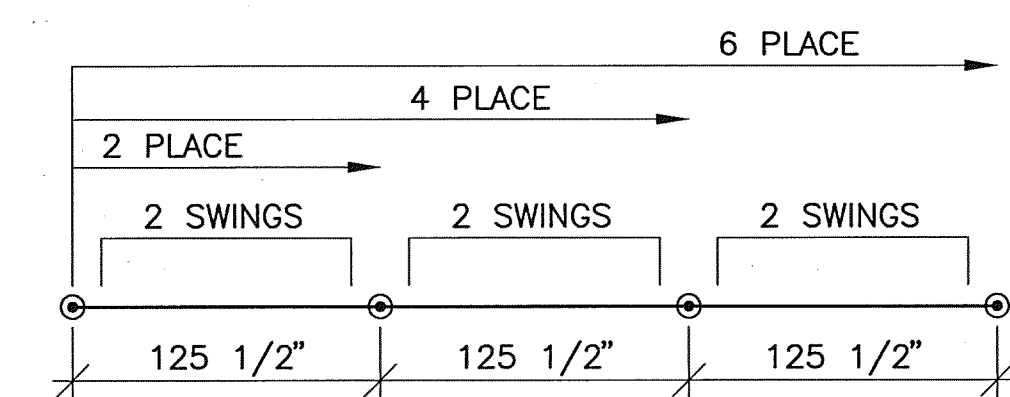
SECTION
5 MONOLITHIC RESILIENT SURFACING DETAIL
D-3 NTS



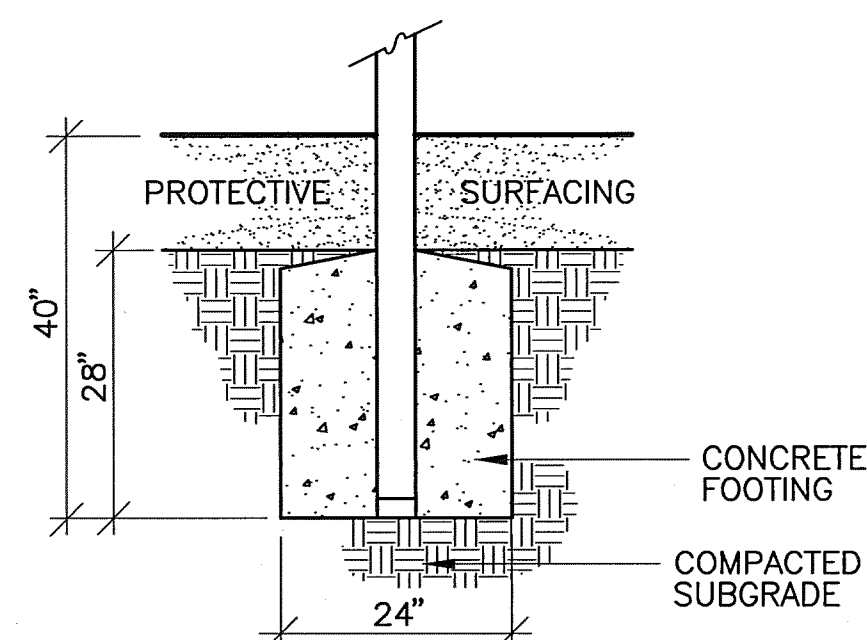
SECTION
6 MONOLITHIC, RESILIENT SURFACING BEVELED EDGE DETAIL
D-3 NTS



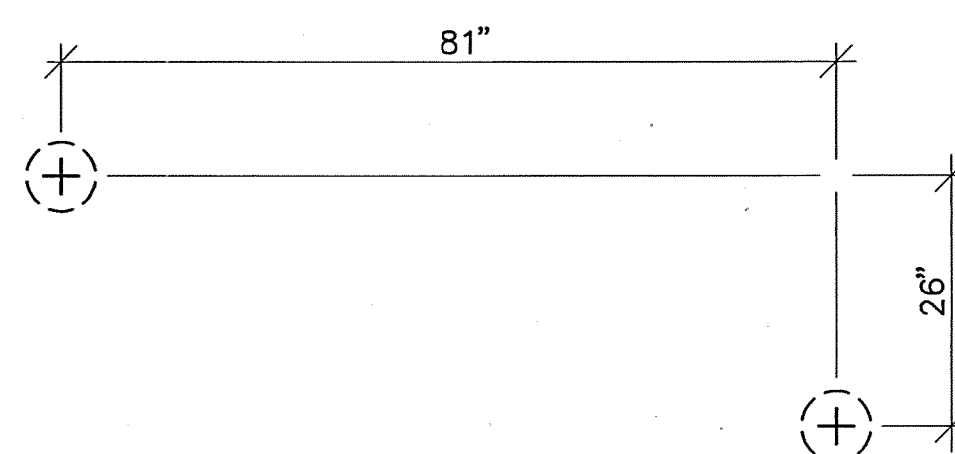
SECTION
7 CAMEL DETAIL
D-3 NTS



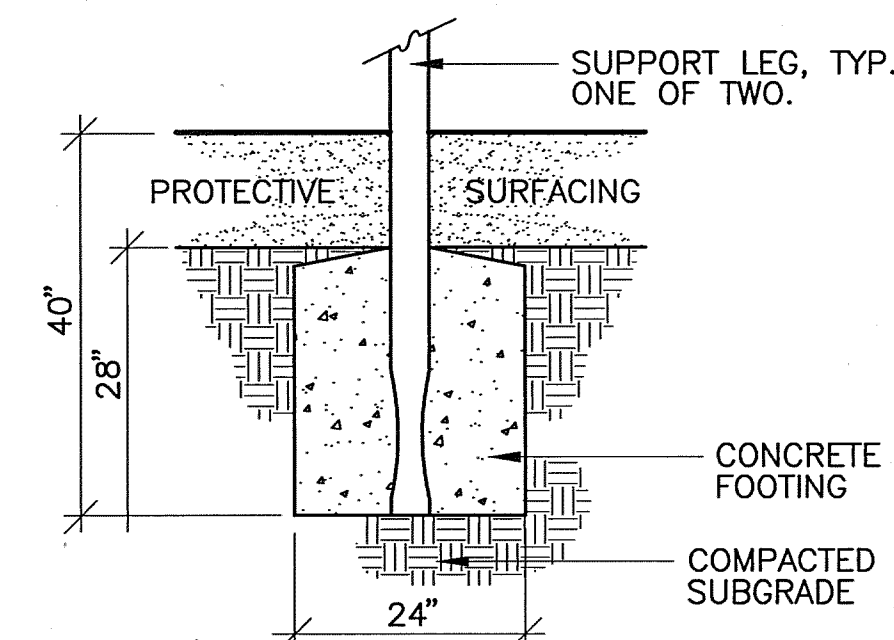
PLAN VIEW/CONCRETE FOOTING LAYOUTS
9 SINGLE POST SWINGS
D-3 NTS



CONCRETE FOOTING SECTION



PLAN VIEW/FOOTING LAYOUT
10 CURVED BALANCE BEAM FOOTING
D-3 NTS



CONCRETE FOOTING SECTION

NOT USED

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK PLAY AREA COMPONENT DETAILS			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	Mo./Day/Yr.	Mo./Day/Yr.
DESIGN REVIEW COMMITTEE			
City Project No.	Zone Map No.	Sheet	Of
555520	B-13-Z	D-3	15

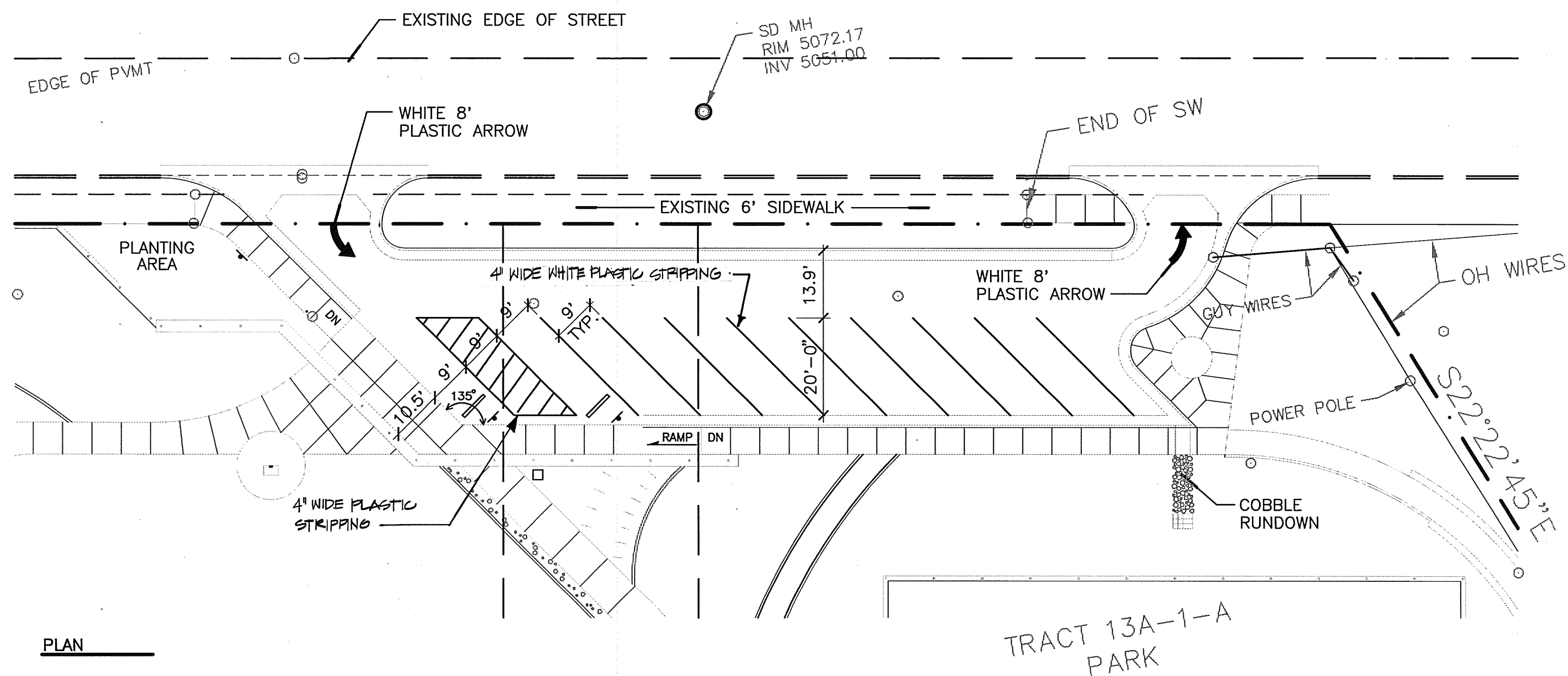


- ① 1-DOUBLE TODDLER SWING. LANDSCAPE STRUCTURES NO.117962B WITH 2 HALF BUCKET SEATS INCLUDING CHAINS. COLOR: RED. SEE DETAIL 9 SHEET D-3.
- ② 1-CURVED BALANCE BEAM. LANDSCAPE STRUCTURES NO. 100041A. COLOR: BLUE. SEE DETAIL 10 SHEET D-3.
- ③ 1-T-REX SPRING RIDER. LANDSCAPE STRUCTURES NO. 100124A. SEE DETAIL 1 SHEET D-3.
- ④ 1-T-WHEELCHAIR ACCESSIBLE SUPER SCOOP. LANDSCAPE STRUCTURES NO. 120893. COLOR: RED. SEE DETAIL 1 SHEET D-3. ADDITIVE ALTERNATE NO.3.
- ⑤ 1-RHINODINO SPRING RIDER. LANDSCAPE STRUCTURES NO.100123. SEE DETAIL 1 SHEET D-3.
- ⑥ PLAYVENTURE PLAY STRUCTURE BY LANDSCAPE STRUCTURES AVAILABLE FROM EXERPLAY (505)281-0105. SEE DETAILS 3 AND 4 SHEET D-4.
COLOR SCHEME: PLAYVENTURE POSTS, DOUBLE POLY SLIDE, SMALL SLIDE WINDER-BLUE; PIPE BARRIERS, SLIDE WINDER, DISCS-RED; SNAKE CLIMBER, CORKSCREW, LOOP POLE, FIRE POLE, HORIZONTAL LADDER, LOG ROLL-GREEN; BLOCK CLIMBER-TAN AND BLUE.
- ⑦ 1-4 SEAT SINGLE POST SWING SET. LANDSCAPE STRUCTURES NO. 100126C. COLOR: GREEN. SEE DETAILS 9 SHEET D-4.
NOTE: 2 BELT SEATS, 2 HALF BUCKET SEATS CLOSEST TO SIDEWALK.
- ⑧ 1-CONCRETE CAMEL CLIMBER AS AVAILABLE FROM FORM PRODUCTS (800)231-4836. 7-CAM CAMEL.
- ⑨ POURED IN PLACE SAFETY SURFACE CREATIONS, THICKNESS 2". COLOR: 50% TAN, 50% GREEN (TYP). SEE DETAIL 5,6 SHEET D-3. ADDITIVE ALTERNATE 3.
- ⑩ POURED IN PLACE SAFETY SURFACE CREATIONS, THICKNESS 2". COLOR: TAN AND GREEN. SEE DETAIL 5,6 SHEET D-3.
- ⑪ POURED IN PLACE SAFETY SURFACE CREATIONS, THICKNESS 3". COLOR: TAN AND GREEN. SEE DETAIL 5,6 SHEET D-3. ADDITIVE ALTERNATE 4.
- ⑫ 12" DEPTH PLASTER SAND.

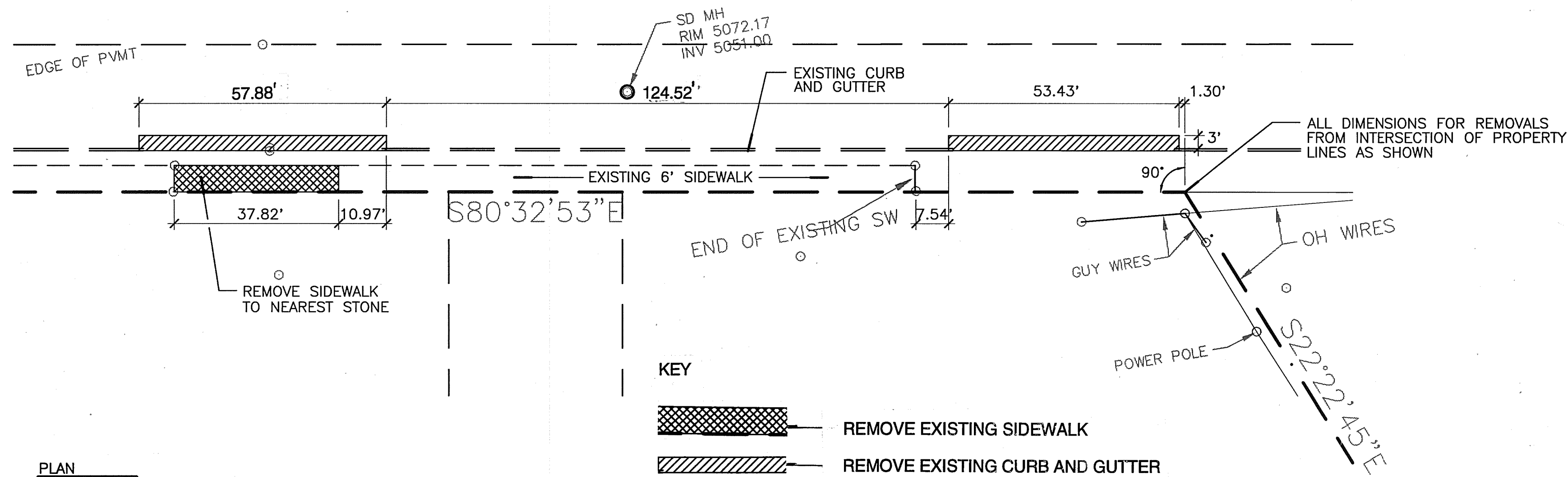
POINT	DISTANCE FROM BASELINE REFERENCE	Y (POSITION ALONG BASELINE REFERENCE)	NOTES/POINTS OF TANGENCY/ARC
A	28.99'	430+4.37	TODDLER SWING
B	21.77'	410+4.41	CURVED BALANCE BEAM
C	46.39'	420+5.31	T-REX
D	38.42'	420+0.57	SUPER SCOOP
E	47.77'	410+7.50	RHINODINO
F	46.47'	400+0.60	CAMEL
G	38.33'	370+3.78	PLAYSTRUCTURE
H	61.06'	330+3.13	4 SEAT SWING SET
I	82.76'	430+6.28	CENTER OF CONCRETE PAD
J	58.50'	420+3.29	CENTER OF TREE WELL
K	63.50'	410+4.11	CENTER OF CONCRETE PAD
L	65.25'	400+4.15	CENTER OF TREE WELL
M	75.00'	390+8.00	CENTER OF CONCRETE PAD
N	105.01'	390+7.25	CENTER OF CONCRETE PAD
O	82.32'	380+0.85	CENTER OF TREE WELL
P	45.70'	420+1.05	CENTER OF SAFETY SURFACE PAVING
Q	57.25'	380+6.95	CENTER OF SAFETY SURFACE PAVING
R	70.15'	360+7.94	CENTER OF SAFETY SURFACE PAVING
S	76.68'	350+5.96	CENTER OF SAFETY SURFACE PAVING
T	00.41'	430+4.09	RADIUS POINT/ARC=89°
U	12.03'	410+8.13	RADIUS POINT/ARC=101°
V	17.81'	420+4.74	RADIUS POINT/ARC=32°
W	11.78'	390+9.94	RADIUS POINT/ARC=97°
X	-46.67'	410+7.83	RADIUS POINT/ARC=21°
Y	20.92'	360+4.37	RADIUS POINT/ARC=131°
Z	25.91'	280+1.81	RADIUS POINT/ARC=107°
A ¹	38.54'	330+5.05	RADIUS POINT/ARC=102°
B ¹	60.67'	320+3.02	RADIUS POINT/ARC=136°
C ¹	67.19'	300+3.37	RADIUS POINT/ARC=119°

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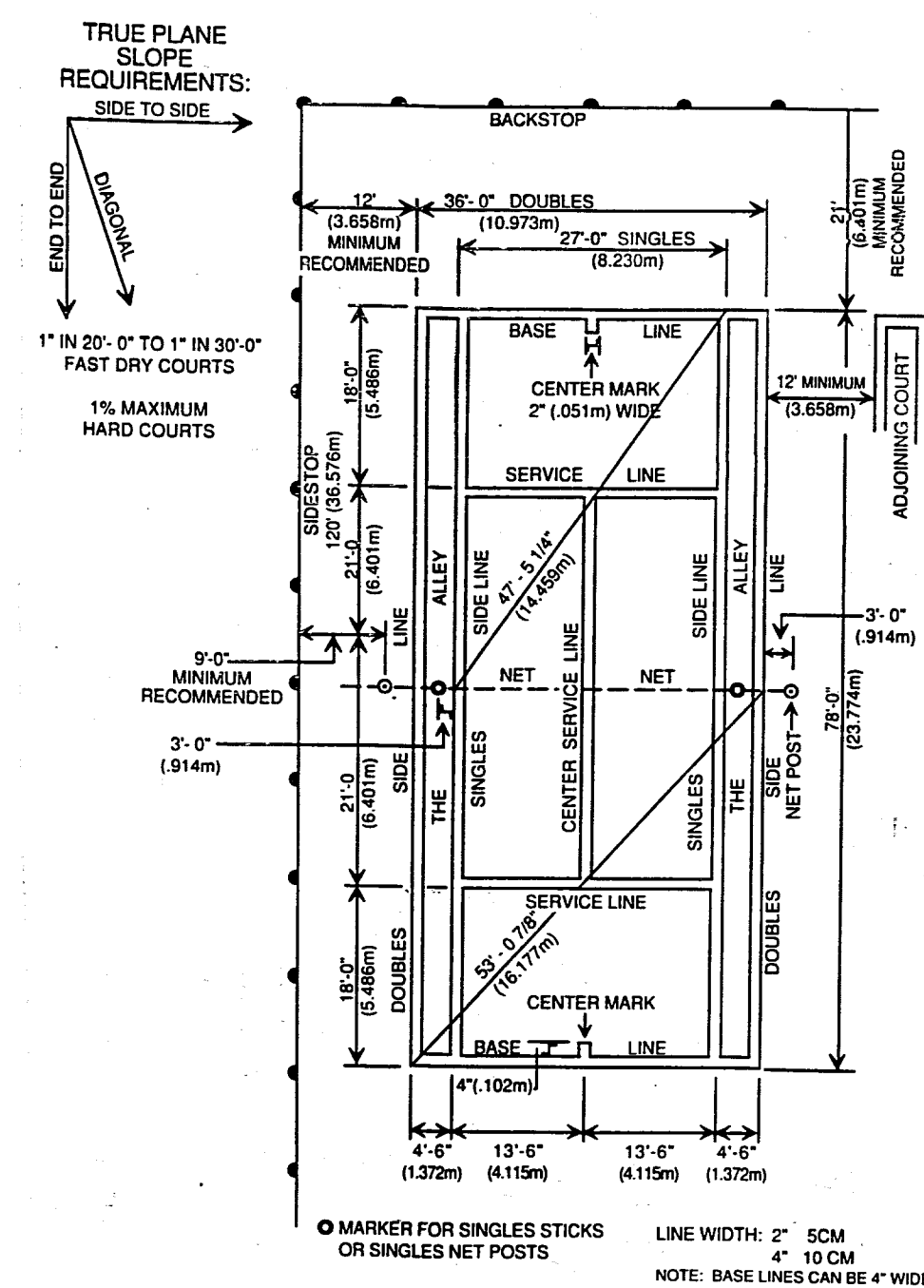
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2	6	-	5	5	5	.	2	0	0	0	4	9	7	



1 ENTRANCE AND PARKING STALL STRIPING PLAN
D-5



3 REMOVALS OF CURB AND GUTTER AND SIDEWALK
D-5



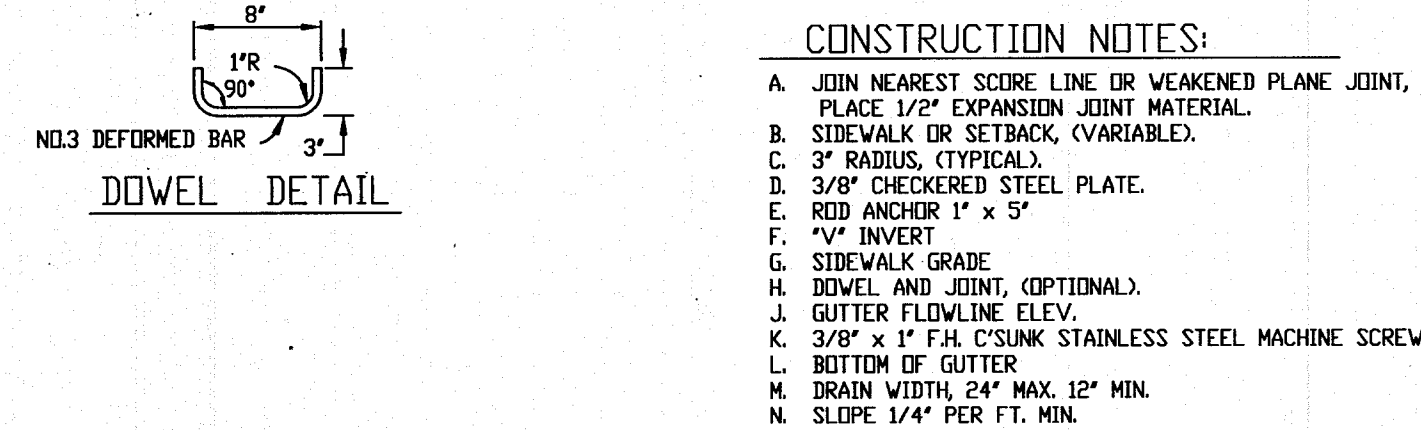
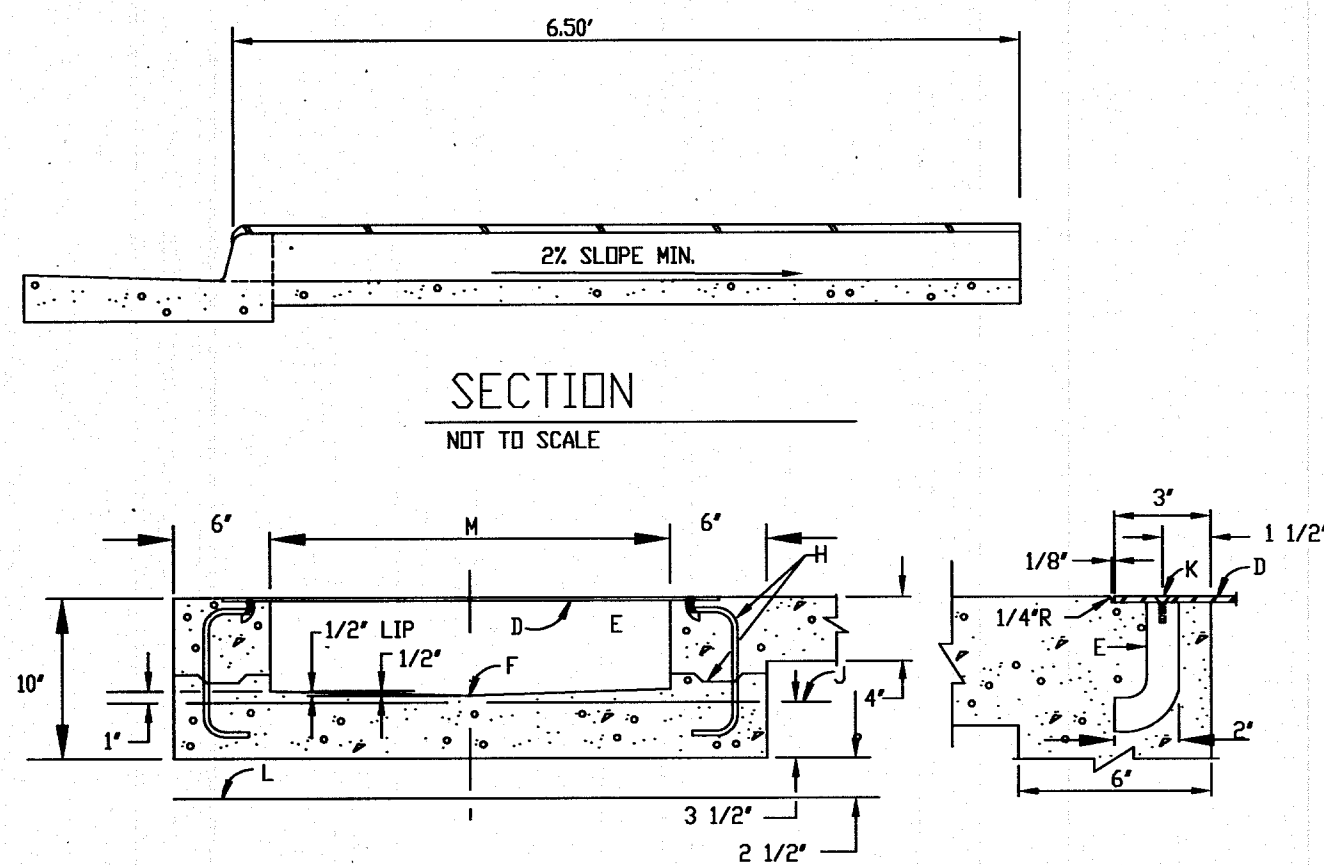
2 TENNIS COURT STRIPING PLAN
D-5

GENERAL NOTES, REFER TO SHEET L-1

- 1 THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION AT ALL TIMES.
- 2 THE CONTRACTOR SHALL MINIMIZE THE DISRUPTION OF TRAFFIC ON CONGRESS AVENUE.
- 3 NO LANES OF TRAFFIC SHALL BE AFFECTED BETWEEN THE HOURS OF 4:00 PM AND 7:00 AM.
- 4 THE CONTRACTOR SHALL LIMIT ALL WORK THAT WILL INFLUENCE THE LANES OF TRAFFIC IN CONGRESS AVENUE TO WITHIN A SPECIFIC 5 DAY PERIOD. WORK IN CONGRESS AVENUE WILL TAKE PLACE BETWEEN 9:00 AM AND 3:00 PM.
- 5 THE WATER SERVICE TAP SHALL BE CONSTRUCTED IN A MANNER THAT MINIMIZES THE IMPACT ON TRAFFIC. THE WATER SERVICE TAP WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD CITY OF ALBUQUERQUE DETAILS.
- 6 ALL CONCRETE AND ASPHALT WORK BEHIND THE CURB WILL BE COMPLETED PRIOR TO COMMENCEMENT OF DEMOLITION OF THE EXISTING CURB AND GUTTER ON CONGRESS AVENUE.
- 7 BARRICADES SHALL BE INSTALLED, MAINTAINED AND REMOVED IN ACCORDANCE WITH STANDARD CITY OF ALBUQUERQUE DETAILS AND SPECIFICATIONS.

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK STRIPING PLAN DETAIL			
Design-Review-Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED AND 26 1997 DESIGN REVIEW COMMITTEE			
City Project No.	Zone Map No.	Sheet	Of
555520	B-13-Z	D-5	15



TYPICAL SIDEWALK CULVERT DETAILS
NOT TO SCALE

DRAINAGE PLAN

The following items concerning the Congress Heights Park Drainage Plan are contained herein:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located on the south side of Congress Avenue N.W. immediately east of an existing public detention pond opposite the intersection with Buckeye Street. The site is rough and unimproved with little vegetation, and is traversed by a public 60" storm drain leading to the Eagle Ranch Storm Drain.

As shown by Panel 108 of 825 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the County of Bernalillo, New Mexico, and Incorporated Areas, dated September 20, 1996, this site does not lie within or upstream of a designated flood hazard zone.

The site is surrounded by developed public infrastructure and/or residential properties. The residential properties are separated from the site by CMU walls and hence do not contribute any significant offsite flows. The adjacent public streets are developed with curb and gutter and do not drain onto the site. As indicated above, a public 60" diameter storm drain crosses beneath the site discharging to the Eagle Ranch Storm Drain.

The Grading Plan shows: 1) existing grades indicated by spot elevations and contours as shown on survey information provided by the Owner (the City of Albuquerque), 2) proposed grades indicated by spot elevations and contours at 1'0" intervals, 3) the limit and character of the existing improvements as indicated on the above referenced surveys and as indicated on record drawings obtained from City Mapping, 4) the limit and character of the proposed improvements, and 5) continuity between existing and proposed grades. As indicated by this plan, the proposed improvements consist of developing the dedicated park site with a basketball court, a small parking lot, concrete and crusher fines walks, a tennis court and landscaping improvements. The majority of the work consists of landscaping improvements. For the most part, Land Treatment "C" (existing condition) will be replaced by Land Treatment "B". The site is characterized by two drainage basins. Basin A will collect the majority of the runoff generated by the site, including all hard surface areas, and discharge that runoff directly to the existing public storm drain. Basin B, which constitutes a small portion of the site, will consist of landscaping improvements only and will continue to discharge in its historic pattern. Hard surface areas are not proposed within Basin B.

The park is part of the Cactus Hills Subdivision (C13/D13). The Drainage Report for Cactus Hills does not provide for the routing of the park runoff into the existing pond which lies adjacent to the park, thereby allowing for the free discharge of the park runoff from the site. The runoff from the park will be directly discharged into the storm drain as opposed to draining the park runoff into the adjacent streets and then into the storm drain. This pattern of drainage is consistent with the Cactus Hills Drainage Report and recognizes that the proposed improvements will result in a slight decrease in the peak discharge of runoff from the site.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, the peak rates of discharge of Basin A and B will both be reduced by the proposed improvements.

Site Characteristics

1. Precipitation Zone = 1
2. $P_{6,100} = P_{360} = 2.20$ in.
3. Total Area (A_T) = 121,624 sf/2.7921 ac

4. Existing Land Treatment	Area (sf/ac)	%
Treatment C	121,624/2.7921	100

5. Developed Land Treatment	Area (sf/ac)	%
A. Basin A	112,984/2.59	
Treatment B	78,231/1.80	69
D	34,750/0.80	31

B. Basin B	8,640/0.20	%
Treatment B	8,040/0.185	93
C	600/0.014	07

6. Existing Condition

Full Site

1. Volume

$$E_W = (E_{A^A} + E_{B^A} + E_{C^A} + E_{D^A})/A_T$$

$$E_W = [0 + 0 + (0.99)(2.79) + 0]/2.79 = 0.99 \text{ in.}$$

$$V_{100} = (E_W/12)A_T$$

$$V_{100} = (0.99/12)2.79 = 0.2302 \text{ ac.ft.; } 10,026 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA^A} + Q_{PB^A} + Q_{PC^A} + Q_{PD^A}$$

$$Q_p = Q_{100} = 0 + 0 + (2.87)(2.79) + 0 = 8.00 \text{ cfs}$$

6. Developed Condition

A. Basin A

1. Volume

$$E_W = (E_{A^A} + E_{B^A} + E_{C^A} + E_{D^A})/A_T$$

$$E_W = [0 + (0.67)(1.80) + 0 + (1.97)(0.80)]/2.59 = 1.07 \text{ in.}$$

$$V_{100} = (E_W/12)A_T$$

$$V_{100} = (1.07/12)(2.59) = 0.2318 \text{ ac.ft.; } 10,099 \text{ cf?}$$

2. Peak Discharge

$$Q_p = Q_{PA^A} + Q_{PB^A} + Q_{PC^A} + Q_{PD^A}$$

$$Q_p = Q_{100} = (2.03)(1.80) + 0 + (4.37)(0.80) = 7.15 \text{ cfs}$$

B. Basin B

1. Volume

$$E_W = (E_{A^A} + E_{B^A} + E_{C^A} + E_{D^A})/A_T$$

$$E_W = [0 + (0.67) + (0.185) + (0.99)(0.014) + 0]/0.20 = 0.69 \text{ in.}$$

$$V_{100} = (E_W/12)A_T$$

$$V_{100} = (0.15/12)(0.20) = 0.0115 \text{ ac.ft.; } 500 \text{ cf}$$

2. Peak Discharge

$$Q_p = Q_{PA^A} + Q_{PB^A} + Q_{PC^A} + Q_{PD^A}$$

$$Q_p = Q_{100} = (2.05)(0.185) + (2.87)(0.014) + 0 = 0.42 \text{ cfs}$$

Comparison

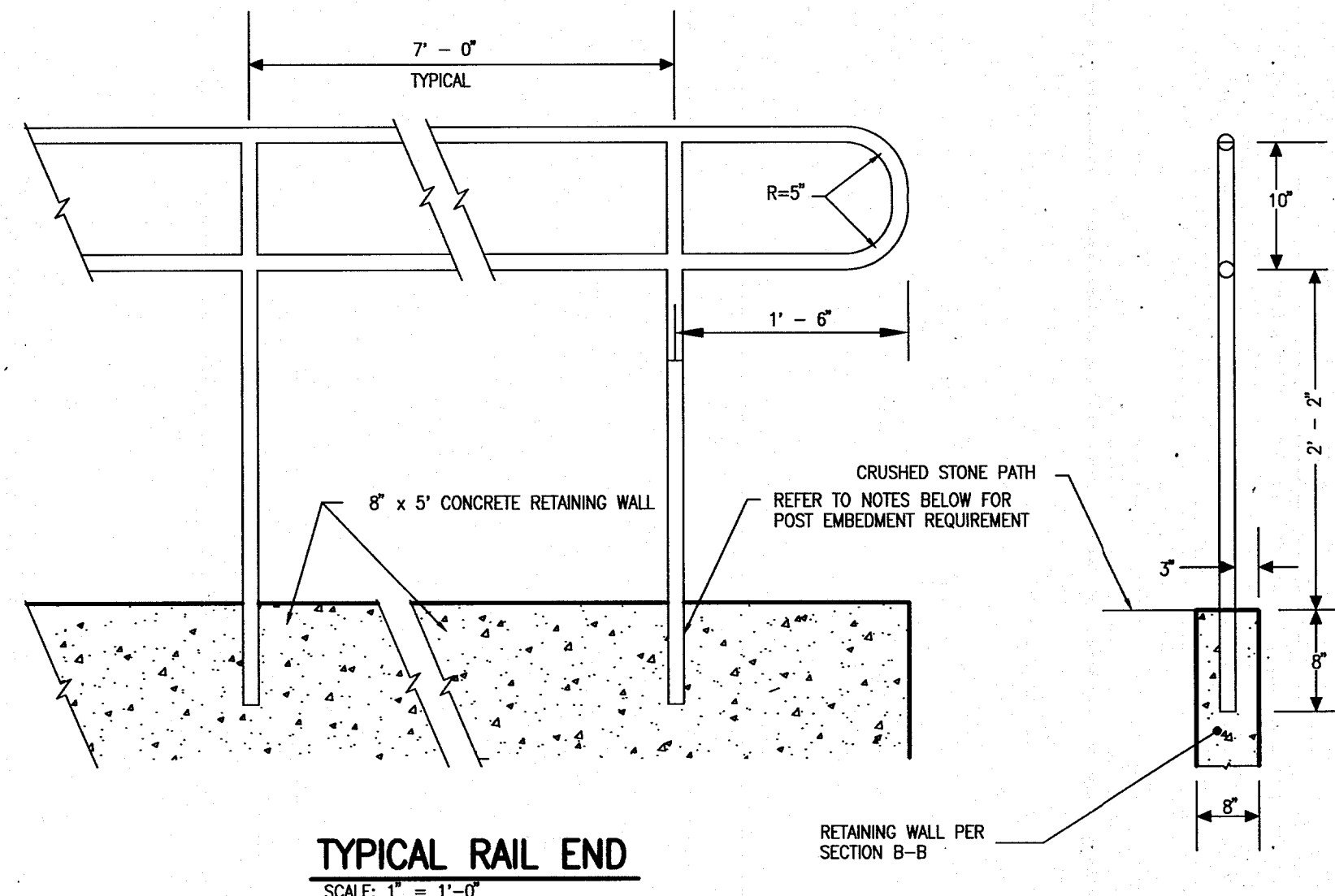
$$1. \Delta V_{100} = 10,026 - (10,099 + 500) = 573 \text{ cf (increase)}$$

$$2. \Delta Q_{100} = 8.0 - (7.15 + 0.42) = 0.43 \text{ cfs (decrease)}$$

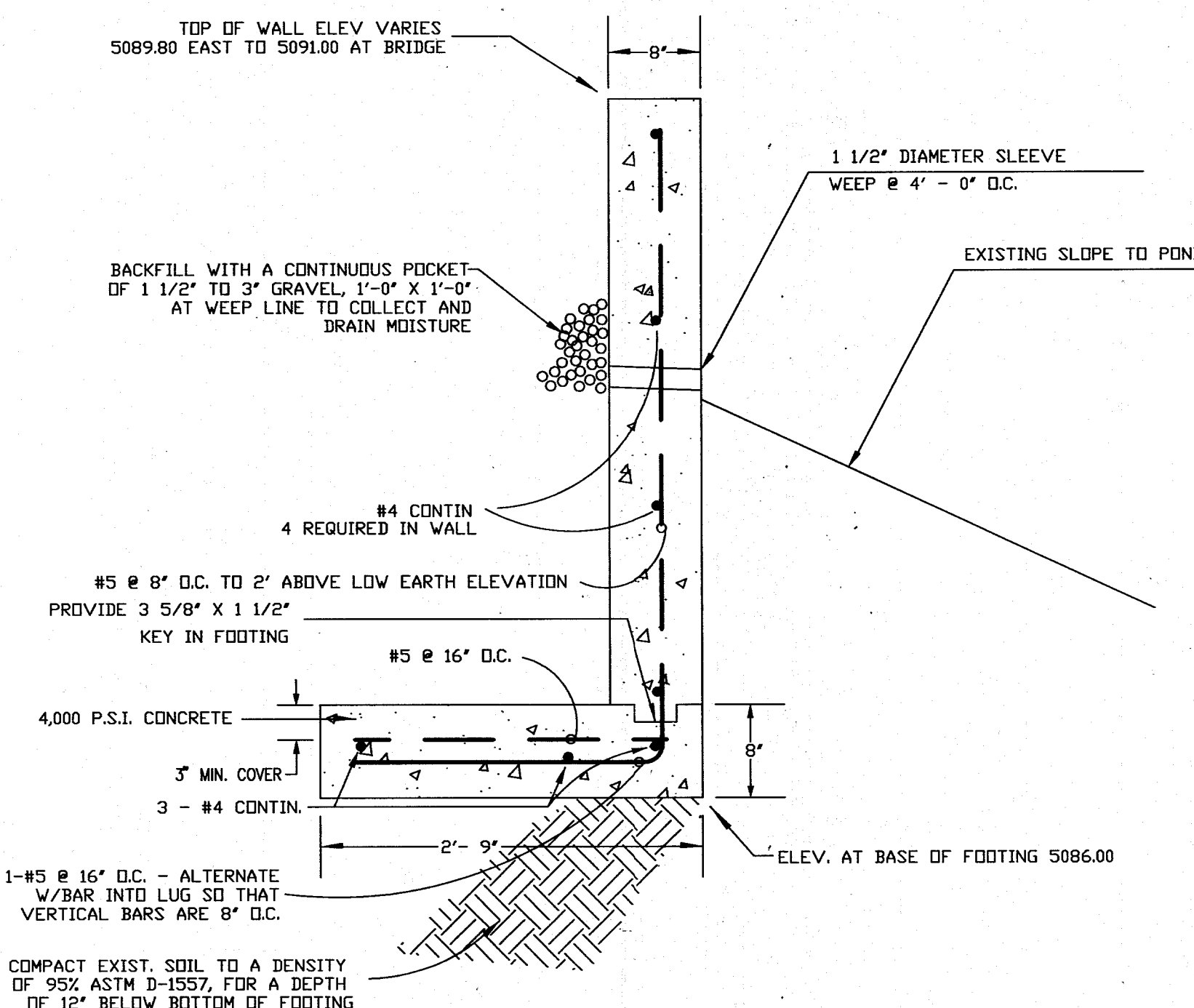
CALCULATIONS

RAILING NOTES

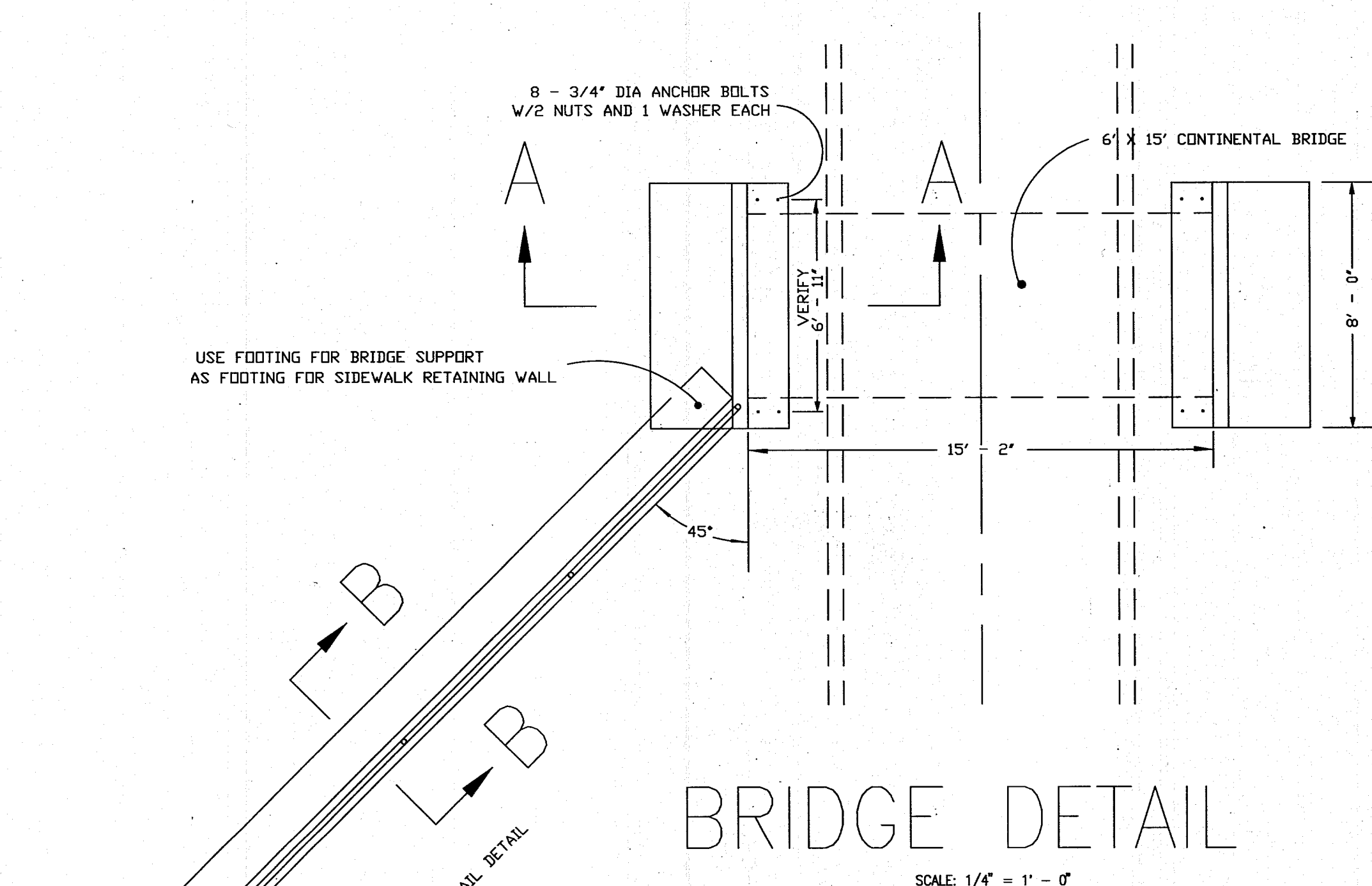
1. SET 1 1/4" POSTS INTO 2" CORED HOLE IN CONCRETE 8" DEEP AND FILL REMAINING VOID WITH A NON-SHRINKING, QUICK SETTING GROUT (SUCH AS BURKE STONE) TO 1/2" BELOW FINISHED SURFACE. FILL THE LAST 1/2" OF VOID WITH A POLYURETHANE SEALING MATERIAL. FOLLOW MANUFACTURER'S DIRECTIONS FOR ALL MATERIALS USED. MAINTAIN RAILING HEIGHTS ON DRAWINGS.
2. WELD AND GRIND SMOOTH ALL JOINTS; PRIME THE FABRICATED PIECES COMPLETELY WITH RED OXIDE PRIMER AND FINISH WITH TWO COATS OF EXTERIOR FLAT LATEX PAINT (BLACK). CONTRACTOR SHALL SUBMIT COLOR SAMPLE TO ARCHITECT.



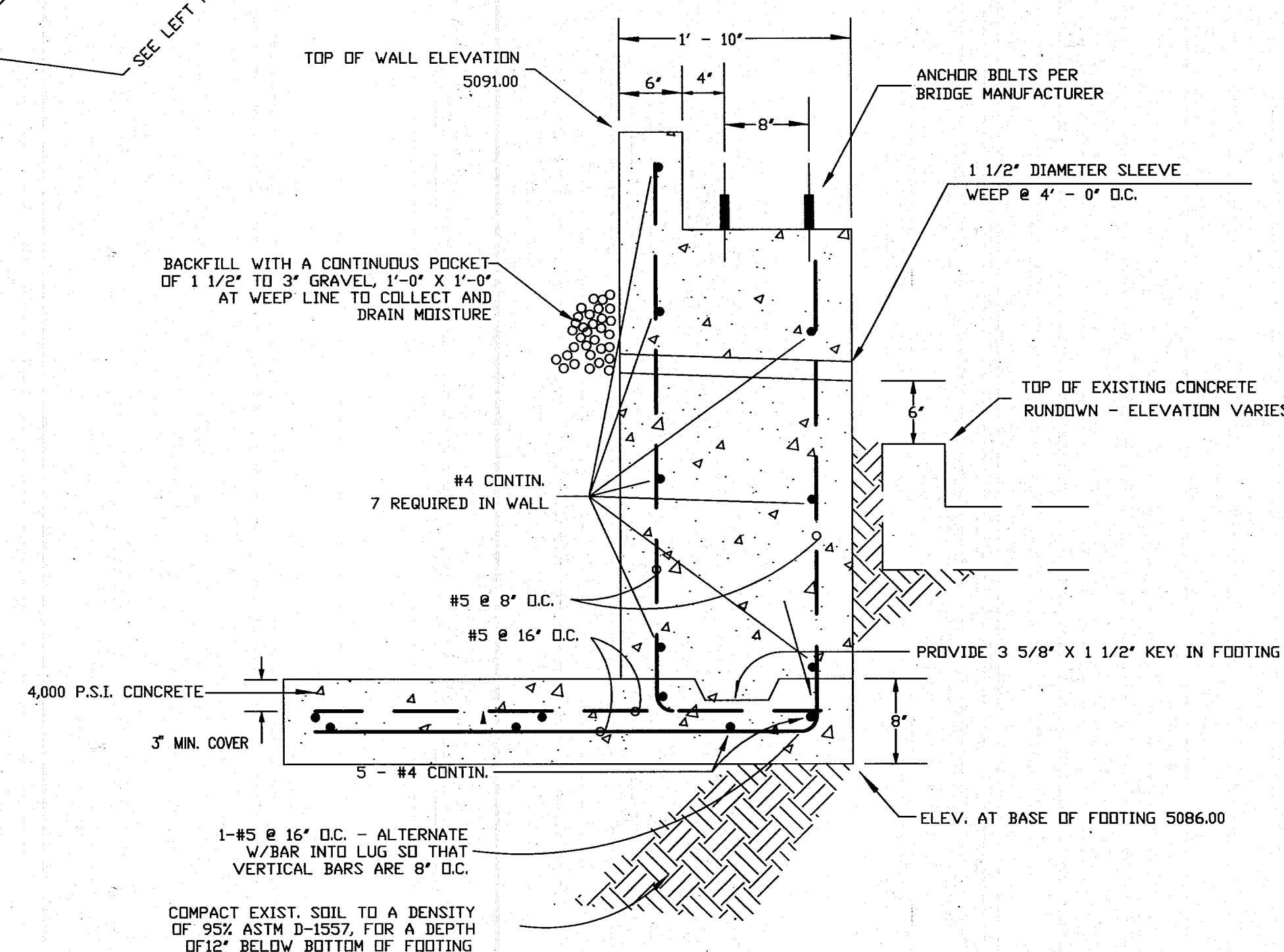
TYPICAL RAIL END
SCALE: 1" = 1'-0"



SECTION B-B
SCALE: 1" = 1'-0"



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



SECTION A-A
SCALE: 1" = 1'-0"

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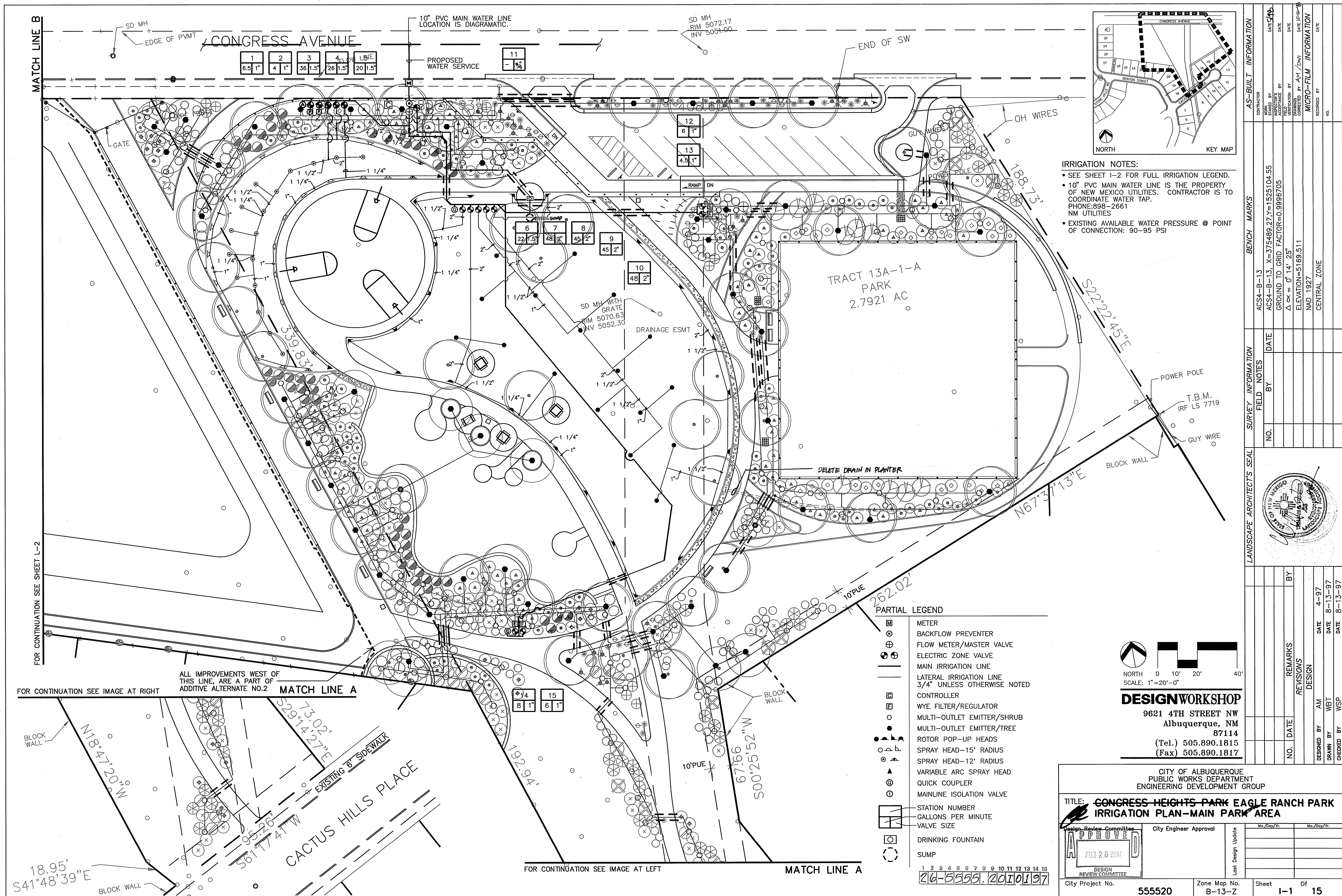
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JEFF MORTENSEN & ASSOCIATES, INC.
6010-B MIDWAY-PARK BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87109
ENGINEERS SURVEYORS (505) 345-4250

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK DRAINAGE PLAN AND CALCULATIONS-SECTIONS AND DETAILS	
City Engineer Approval	City Project No. 5555.20.20
Design Review Committee	Zone Map No. B-13
City Engineer Approval	Sheet G-2

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR	DATE						
ACCEPTANCE BY	DATE						
VERIFICATION BY	DATE						
DESIGNED BY	DATE						
DRAWN BY	DATE						
CHECKED BY	DATE						

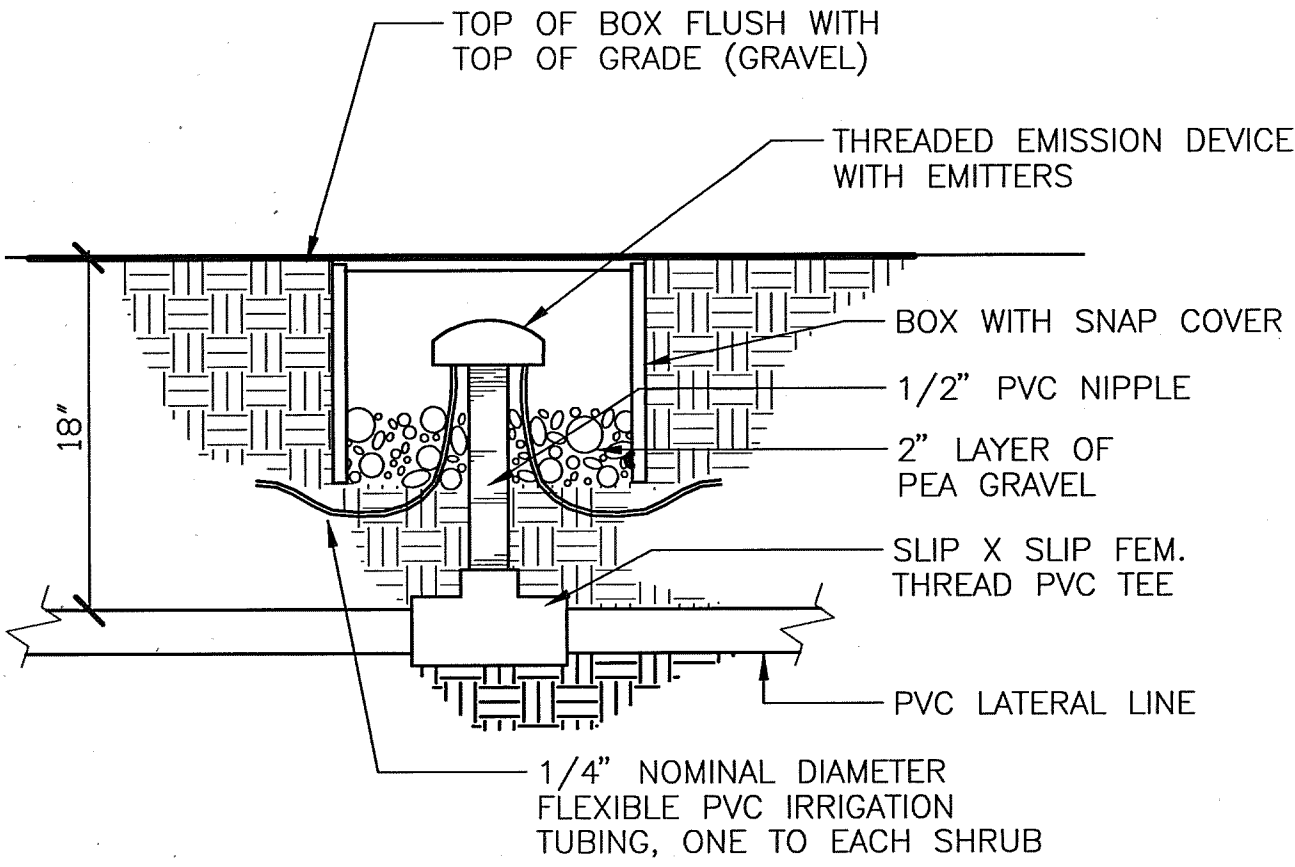


IRRIGATION LEGEND

SYM	DESCRIPTION/MANUFACTURER	DETAIL	NOTES
	RAINBIRD PEB-PRS-B SERIES PLASTIC REMOTE CONTROL VALVE BRONZE GATE VALVE/BROOKS BOX 1730B-P28-18 COLOR: TAN IN PLANTING BEDS/GREEN IN LAWN	CITY STD. 2703	SEE VALVE CHART FOR SIZES
	REDUCED PRESSURE BACKFLOW PREVENTER IN INSULATED STEEL FEBCO 825YB (2 1/2") HOT BOX NO. HB3N	CITY STD. 2701-A	MOUNTING PAD SIZE FOR HOT BOX 82"X38"
	BERMAD 910-B FLOW METER WITH MASTER VALVE/BOX BROOKS BOX 1730B-P28-18 WITH LOCKING COVER AND EXTENSIONS BOX COLOR: GREEN IN TURF AREAS, GREY IN MULCH.	CITY STD. 2701-A	
	METER SIZE: 1 1/2"		COORDINATE WATER METER INSTALLATION WITH NM UTILITIES. 898-2661
	REGULATOR, RAINBIRD PRS-050, IN LINE WYE FILTER, RAINBIRD RBY-100, BROOKS BOX 1730B-P28-18, COLOR: TAN	CITY STD. 2709-A	
	TORO 300-15-ADJ ROTOR POP-UP SPRINKLER	CITY STD. 2709	
	TORO 570Z-4P-15-H-PC TORO 570Z-4P-15-FH-PC POP-UP SPRAY HEADS	CITY STD. 2709	
	TORO 570Z-4P-V-15 TORO 570Z-4P-12-F-PC POP-UP SPRAY HEADS	CITY STD. 2709	
	TORO 570Z-4P-V-15 VARIABLE ARC POP-UP SPRAY HEADS	CITY STD. 2709	
	XERIBUG-8-XBD-80 RAINBIRD MULTI-OUTLET EMITTER XERI-BUG PC-05, PC-10, XB-10,XB-20 DT-025-050/DBC-025/TS-025/ WITH BUG CAP. BOX, NDS 108BC 7" ROUND, COLOR: TAN		SEE PLANT LEGEND FOR EMITTER INFORMATION PER TREE
	XERIBUG-8-XBD-80 RAINBIRD MULTI-OUTLET EMITTER XERI-BUG XB-20, XB-10/XB-05/DT-025-050/DBC-025/TS-025/ WITH BUG CAP. BOX, NDS 108BC 7" ROUND, COLOR: TAN		SEE PLANT LEGEND FOR EMITTER INFORMATION PER PLANT
	SCHEDULE 40 PVC PIPE LATERAL LINE, 18" MIN. BURY, SIZE AS INDICATED ON DRAWINGS		
	SCHEDULE 40 PVC PIPE MASTERLINE, 24" MIN. BURY, SIZE: 2 1/2"		
	CLASS 200 PVC SLEEVING MATERIAL, SIZE SLEEVE 2 TIMES LARGER THAN PIPE OR CONDUIT		
	MIR 5000 IRRINET CONTROLLER IN STAINLESS STEEL CABINET WITH 16 STATION, 24 VOLT SURGE PROTECTION. PART NO. M51-1T-SOR		
	IRRIGATION MAINLINE ISOLATION VALVE	CITY STD. .2707	
	AIR RELIEF VALVE	CITY STD. 2705	
	QUICK COUPLER VALVE	CITY STD. 2708	
	STATION NUMBER GALLONS PER MINUTE VALVE SIZE		REFERENCE VALVE CHART
	ELECTROMINI BALL VALVE 3/4" PVC BALL VALVE ASAHI AMERICA		

VALVE CHART

VALVE NO.	VALVE SIZE	TOTAL GPM	HEAD TYPE	PRECIP. RATE INCHES/HR.	RUN TIME MIN. FOR 1/2"	INCHES/MO. MAY-SEPT.	PLANT MATERIAL
MV	-	-	-	N/A	-	-	-
1	1"	6.5	MOE	N/A	-	N/A	TREES
2	1"	4	MOE	N/A	-	N/A	SHRUBS
3	1 1/2"	36	SPRAY	1.4	21 MIN.	6.9"	TURF
4	1 1/2"	26	SPRAY	1.4	21 MIN.	6.9"	TURF
5	1 1/2"	20	SPRAY	1.4	21 MIN.	6.9"	TURF
6	2"	41	SPRAY	1.4	21 MIN.	6.9"	TURF
7	2"	48	ROTOR	.90	36 MIN.	6.9"	TURF
8	2"	45	ROTOR	.90	36 MIN.	6.9"	TURF
9	2"	45	ROTOR	.90	36 MIN.	6.9"	TURF
10	2"	48	ROTOR	.90	36 MIN.	6.9"	TURF
11	1"	-	N/A	N/A	-	N/A	WATER FOUNTAIN
12	1"	6	MOE	N/A	-	N/A	TREES
13	1"	4.5	MOE	N/A	-	N/A	SHRUBS
14	1"	8	MOE	N/A	-	N/A	SHRUBS
15	1"	6	MOE	N/A	-	N/A	TREES



1 MULTI-OUTLET EMITTER NTS

2 MIR 5000 IRRINET 16 STATION CONTROLLER NTS

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK IRRIGATION LEGEND/CHARTS AND DETAILS			
Design Review Committee 	City Engineer Approval	Mo./Day/Yr.	
Least Design Update	REVISIONS	NO.	DATE
		DESIGNED BY	DATE
		DRAWN BY	DATE
		CHECKED BY	DATE
City Project No. 555520	Zone Map No. B-13-Z	Sheet 1-2	Of 15

PLANT LEGEND

SYM	COMMON NAME/BOTANICAL NAME	APPROX. QUANTITY	SIZE	HEIGHT	MINIMUM SPACING	IRRIGATION NOTES
TREES:						
DW	DESERT WILLOW/CHILOPSIS LINEARIS	16	10 GAL	10'-20'	16' O.C.	2-PC-05 XERIBUG EMITTERS/TREE
RHA	SUMMIT ASH/FRAXINUS PENNSYLVANICA 'SUMMIT'	16	2.5" CAL	40'-50'	25' O.C.	3-PC-10 XERIBUG EMITTERS/TREE
LPT	LONDON PLANE TREE/PLATANUS ACERFOLIA	9	3" CAL	40'-50'	27' O.C.	(TREES PLANTED IN TURF AREA)
CP	CHINESE PISTACHE/PISTACIA CHINENSIS	9	20 GAL	40'-50'	SEE PLAN	3-PC-05 XERIBUG EMITTERS/TREE
PRL	PURPLE ROBE LOCUST/ROBINA 'PURPLE ROBE'	8	2.25" CAL	30'-40'	SEE PLAN	3-PC-10 XERIBUG EMITTERS/TREE
RA	RAYWOOD ASH/FRAINUS OXYCARPA 'RAYWOOD'	6	2.5" CAL	30'-40'	SEE PLAN	3-PC-10 XERIBUG EMITTERS/TREE
PA	PATMORE ASH/FRAXINUS PENNSYLVANICA 'PATMORE'	5	2.5" CAL	30'-40'	22' O.C.	3-PC-10 XERIBUG EMITTERS/TREE

SHRUB:						
⊙	PARNEYII COTONEASTER/ COTONEASTER PARNEYII	60	1 GAL	4'-6'	6' O.C.	1-XB-20 XERIBUG EMITTERS/SHRUBS
⊙	APACHE PLUME/FALLUGIA PARADOXA	94	1 GAL	5'	5' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
⊗	CHAMISA/CHRYSOETHAMNUS NAUSEOUSUS	74	1 GAL	3'-6'	6' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
⊙	BLACK DALEA/PSOROTHAMNUS SCOPARIUS	20	1 GAL	2'-3'	5' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
○	THREADLEAF SAGE/ARTEMESIA FILIFOLIA	105	1 GAL	3'-4'	4' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
⊗	FOUR WING SALT BUSH/ATRIPLEX CANESCENS	39	1 GAL	5'	5' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
⊕	SOAPWEED/YUCCA GLAUCA	9	1 GAL	2'-3'	5' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
⊙	WESTERN SANDCHERRY/PRUNUS BESSEYI	38	5 GAL	4'	5' O.C.	1-XB-20 XERIBUG EMITTERS/SHRUBS
⊙	BLUE MIST SPIREA/CARYOPTERIS CLANDONENSIS	47	5 GAL	4'	5' O.C.	1-XB-10 XERIBUG EMITTERS/SHRUBS
○	BUFFALO JUNIPER/JUNIPERUS SABINA 'BUFFALO'	61	5 GAL	18'	5' O.C.	2-XB-20 XERIBUG EMITTERS/SHRUBS
⊗	SILVER BERRY/ELAEAGNUS PUNGENS	19	5 GAL	10'-12'	6' O.C.	1-XB-20 XERIBUG EMITTERS/SHRUBS
⊗	NEW MEXICO OLIVE/ FORBSTERIA NEOMEXICANA	10	5 GAL	10'-18'	8' O.C.	1-XB-20 XERIBUG EMITTERS/SHRUBS
⊗	SILVER BUFFALOBERRY/SHEPERDIA ARGENTEA	9	5 GAL	10'-18'	SEE PLANS	1-XB-20 XERIBUG EMITTERS/SHRUBS

PERENNIALS:						
✿	CONE FLOWER/RATIBIDA COLUMNIFERA	27	1 GAL	18"	2' O.C.	1-XB-05 XERIBUG EMITTERS/PLANT
✿	PAPERFLOWER/PSILOSTROPHE TAGETINA	38	1 GAL	12"	2' O.C.	1-XB-05 XERIBUG EMITTERS/PLANT
⊕	BLANKET FLOWER/GAILLARDIA ARISTATA	8	1 GAL	12"	2' O.C.	1-XB-05 XERIBUG EMITTERS/PLANT

NATIVE GRASS MIX: AVAILABLE FROM CURTIS & CURTIS (505) 762-4759			APPLICATION RATE:
	BLUE GRAMA/BOUTELOUA GRACILIS		5 LBS. P.L.S./ACRE
	INDIAN RICE GRASS/ORYZOPSIS HYMENOIDES		6 LBS. P.L.S./ACRE
	SAND LOVE GRASS/ERAGROSTIS TRICHODES		1 LBS. P.L.S./ACRE
	GALLETA/HILARIA JAMESSI		7.5 LBS. P.L.S./ACRE
	PURPLE PRAIRIE CLOVER/PETALOSTENUM PURPUREUM		3.75 LBS. P.L.S./ACRE
	FOURWING SALT BUSH/ATRIPLEX CANESCENS		5 LBS. P.L.S./ACRE
	THREADLEAF SAGE/ARTEMESIA FILIFOLIA		.5 LBS. P.L.S./ACRE
	CHAMISA/CHRYSOTHAMNUS NAUSEOUSUS		.5 LBS. P.L.S./ACRE
	NOTE: AREA TO BE SEEDED, APPROXIMATELY 1 ACRE.		

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		LANDSCAPE ARCHITECT'S SEAL	
CONTRACTOR	NO.	DATE	BY	NO.	DATE		
DESIGNED BY							
DRAWN BY							
CHECKED BY							
REVISIONS							
NO.	DATE	REMARKS	BY				
DESIGNED BY	AM	DATE	8-13-97				
DRAWN BY	WBT	DATE	8-13-97				
CHECKED BY	WSP	DATE	8-13-97				

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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: CONGRESS HEIGHTS PARK EAGLE RANCH PARK PLANTING LEGEND AND DETAILS			
Design Review Committee 	City Engineer Approval	Last Design Update	
City Project No. 555520	Zone Map No. B-13-Z	Sheet P-2	Of 15