

CONSTRUCTION PLANS
FOR
THE HIGHLANDS AT
HIGH DESERT SUBDIVISION
UNIT 2
ALBUQUERQUE, NEW MEXICO

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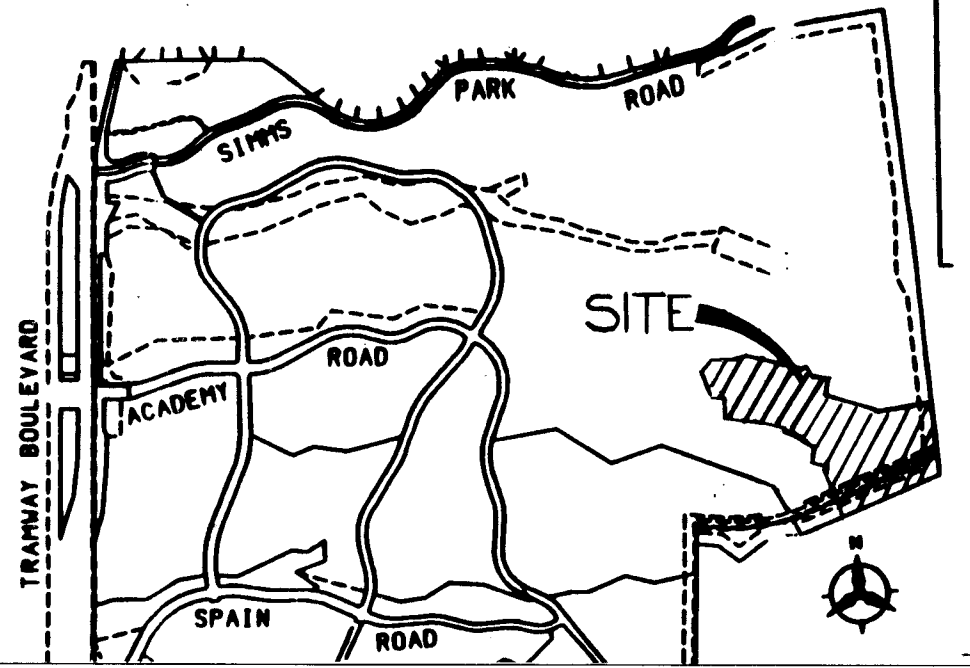
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RECORD DRAWING

I, Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
LS No. 4767



VICINITY MAP
NOT TO SCALE
E-23

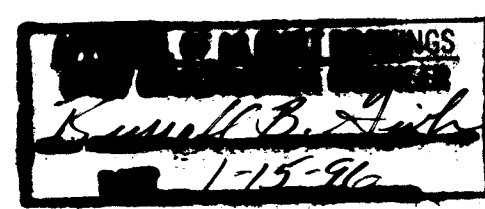
NOTICE TO CONTRACTORS

- 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. 5 REVISIONS, DELETIONS, AND ADDITIONS DATED NOV. 15, 1994.
- 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.
- THREE (3) 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 IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS 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 THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES 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 DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

26-507.91



REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

BOHANNAN HUSTON INC.
ALBUQUERQUE, NEW MEXICO
ENGINEERS PLANNERS PHOTOGRAMMETRISTS

APPROVED FOR CONSTRUCTION

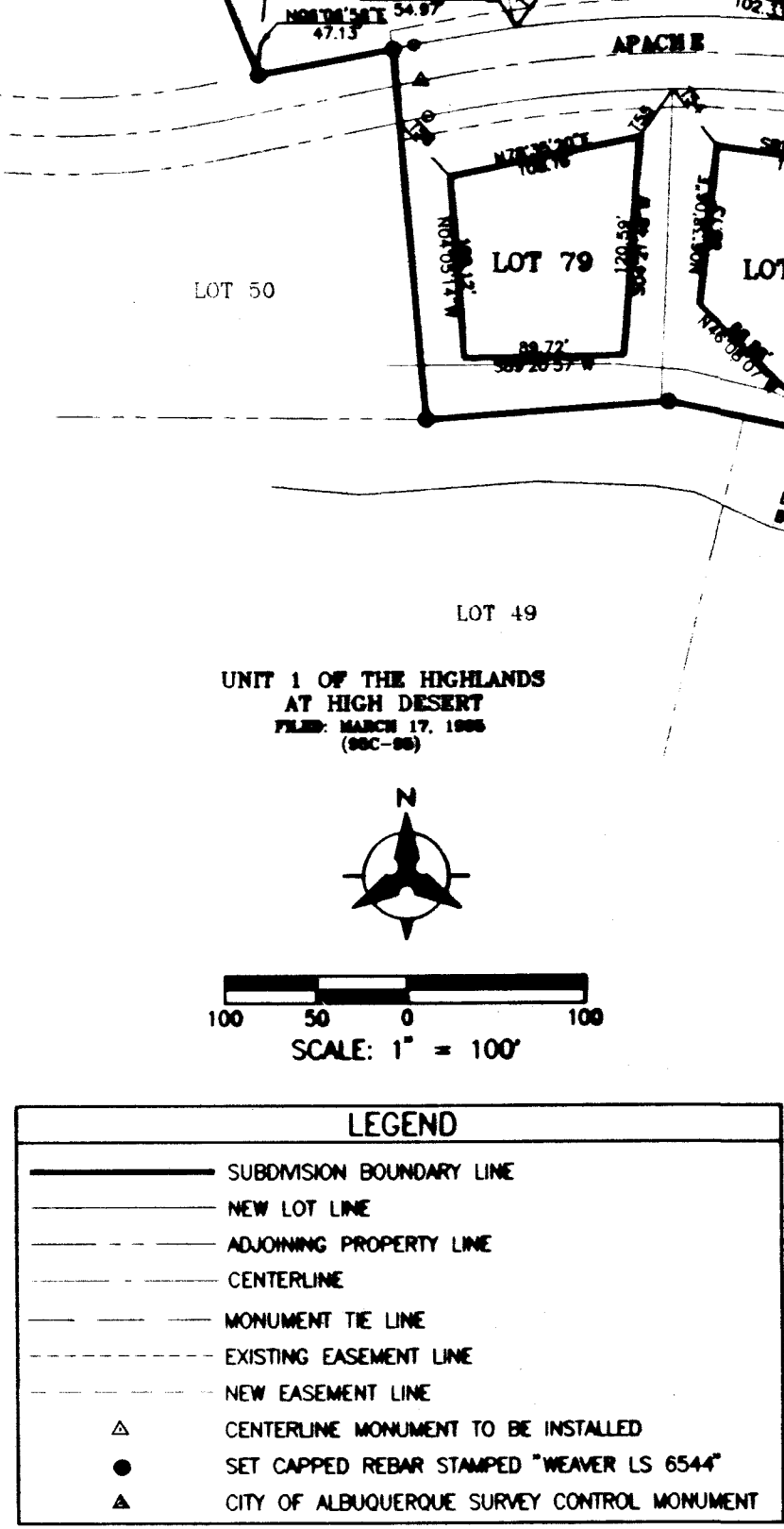
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PROJECT NUMBER 5097.91

SHEET 1 OF 15

PLAT OF
UNIT 2 OF THE HIGHLANDS
AT HIGH DESERT
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1994

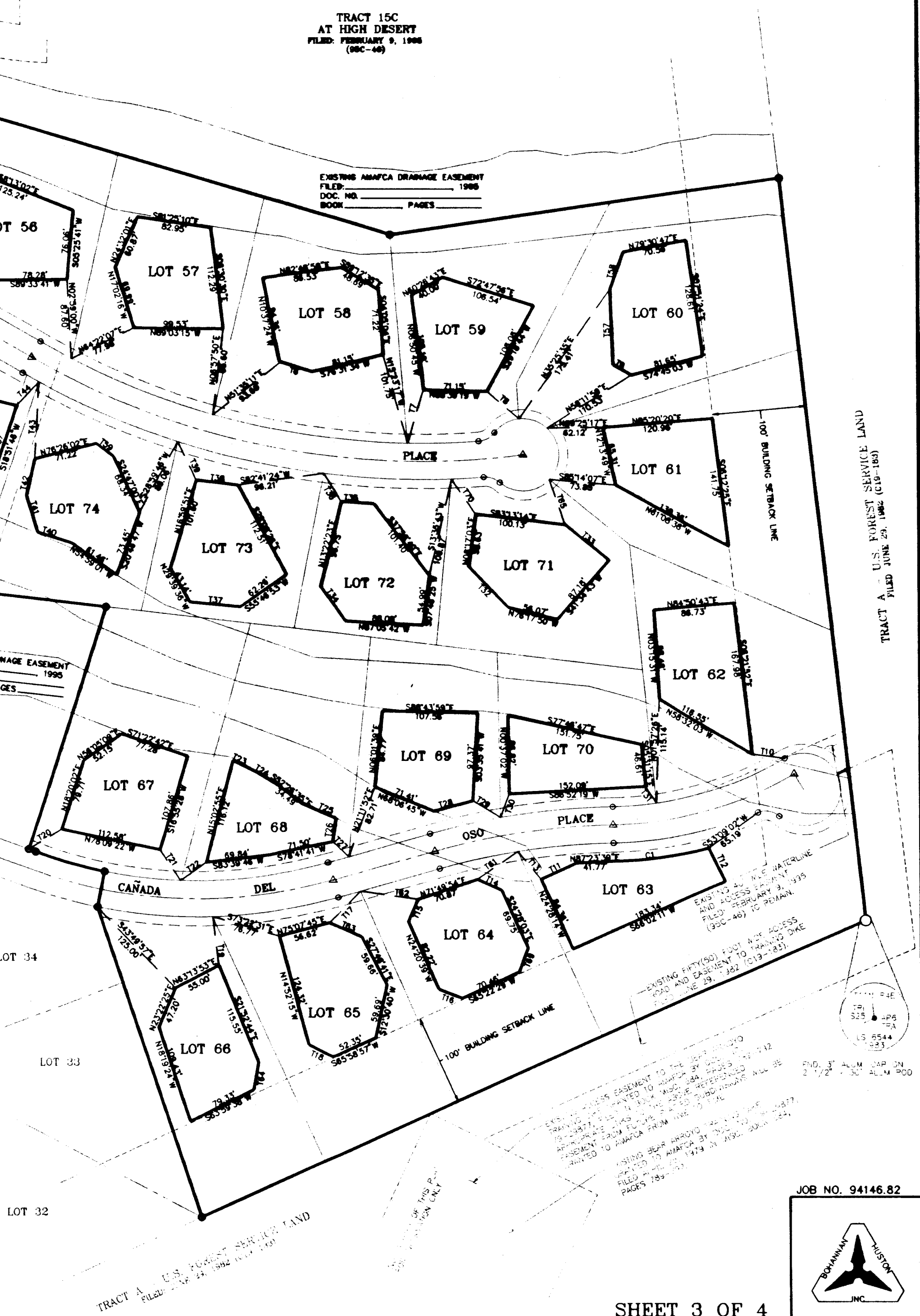
ENVELOPE TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N28°41'28"W	31.24'
T2	N37°58'26"E	55.52'
T3	N35°41'24"W	53.89'
T4	N47°28'02"E	48.19'
T5	S65°44'54"W	35.38'
T6	N72°45'54"W	38.14'
T7	N16°56'59"E	61.75'
T8	N49°49'59"W	47.19'
T9	N60°57'22"W	23.23'
T10	N82°48'13"W	35.96'
T11	N85°31'44"E	43.46'
T12	S24°28'16"E	40.44'
T13	S39°48'42"E	39.91'
T14	S66°19'04"E	29.80'
T15	N23°44'38"E	26.72'
T16	N69°29'05"W	28.21'
T17	S44°55'59"W	49.31'
T18	N62°33'24"W	29.00'
T19	S06°43'51"E	54.20'
T20	N59°16'04"E	42.88'
T21	N33°41'44"W	41.08'
T22	N55°33'31"E	35.23'
T23	S64°06'13"E	27.28'
T24	S58°18'33"E	28.02'
T25	S65°38'44"E	40.79'
T26	S07°41'59"W	26.17'
T27	N46°20'57"W	24.04'
T28	S75°32'09"W	45.51'
T29	N59°16'04"E	42.88'
T30	N20°23'29"E	27.89'
T31	N32°30'39"W	22.03'
T32	N44°19'02"W	62.90'
T33	S50°56'28"E	42.32'
T34	N34°26'00"W	46.04'
T35	S86°38'30"E	36.74'
T36	S29°50'56"E	35.70'
T37	N84°33'44"W	56.58'
T38	S82°52'41"E	46.75'
T39	S25°51'30"E	47.13'
T40	N72°39'06"W	40.02'
T41	N16°23'45"W	42.29'
T42	N13°14'02"E	41.67'
T43	S03°34'17"W	85.08'
T44	S43°25'44"W	36.08'
T45	S08°31'41"W	34.29'
T46	S07°23'23"W	75.06'
T47	S7°09'01"W	30.43'
T48	S14°27'05"E	73.43'
T49	S70°50'44"W	43.48'
T50	S69°27'09"W	34.80'
T51	S40°03'19"E	52.99'
T52	S46°50'35"W	44.68'
T53	N87°30'40"W	50.43'
T54	S37°40'40"E	39.20'
T55	S36°18'18"W	36.06'
T56	S43°39'49"E	40.92'
T57	N01°58'32"W	83.57'
T58	N19°59'35"E	43.89'
T59	S33°08'25"E	23.87'
T60	N23°46'25"E	38.88'
T61	S56°04'28"W	55.13'
T62	S82°00'09"E	65.00'
T63	S66°20'28"E	39.11'
T64	S09°49'46"W	30.42'
T65	S18°50'40"E	52.70'
T66	N56°41'38"E	18.88'
T67	S25°06'24"E	24.56'
T68	S34°46'44"E	47.11'
T69	S20°27'13"W	28.32'
T70	N36°47'50"E	30.58'
T71	N22°26'23"E	32.96'



LOT NO.	ENVELOPE
52	12000.00 SQ. FT.
53	12000.00 SQ. FT.
54	12000.00 SQ. FT.
55	12000.00 SQ. FT.
56	12000.00 SQ. FT.
57	12000.00 SQ. FT.
58	12000.00 SQ. FT.
59	12000.00 SQ. FT.
60	12000.00 SQ. FT.
61	12000.00 SQ. FT.
62	12000.00 SQ. FT.
63	12000.00 SQ. FT.
64	12000.00 SQ. FT.
65	12000.00 SQ. FT.
66	12000.00 SQ. FT.
67	12000.00 SQ. FT.
68	12000.00 SQ. FT.
69	10914.00 SQ. FT.
70	9965.00 SQ. FT.
71	12000.00 SQ. FT.
72	11855.00 SQ. FT.
73	12000.00 SQ. FT.
74	11821.00 SQ. FT.
75	12000.00 SQ. FT.
76	12000.00 SQ. FT.
77	12000.00 SQ. FT.
78	12000.00 SQ. FT.
79	10759.00 SQ. FT.

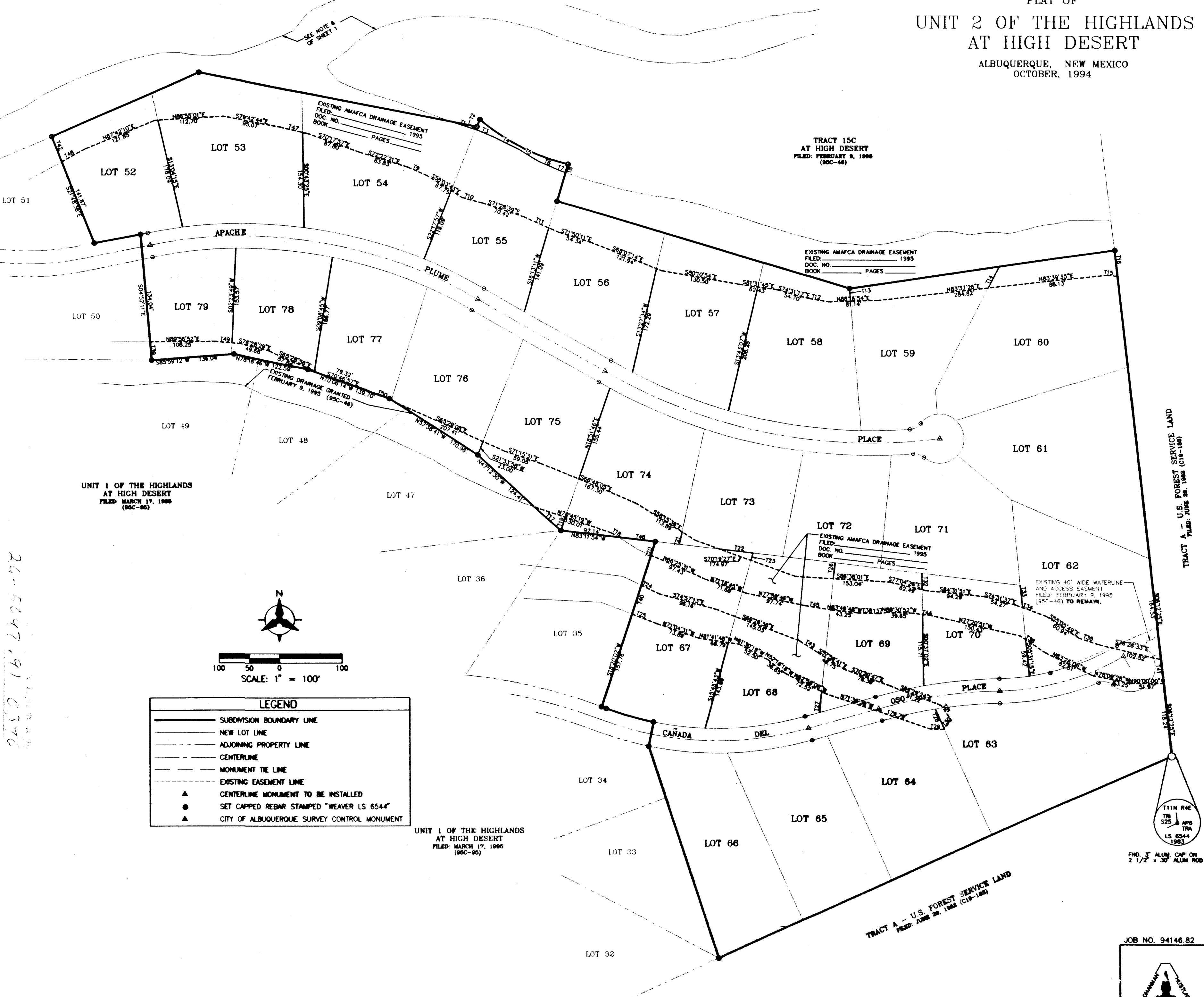
ENVELOPE CURVE DATA					
CURVE	RADIUS	LENGTH	TANGENT	CHORD	CHORD BEARING
C1	437.69'	105.72'	53.12'	105.46'	N82°02'57"E 13°50'22"

UNIT 1 OF THE HIGHLANDS
AT HIGH DESERT
FILED: MARCH 17, 1995
(DOC-95)



PLAT OF
UNIT 2 OF THE HIGHLANDS
AT HIGH DESERT
ALBUQUERQUE, NEW MEXICO
OCTOBER, 1994

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N71°58'38"W	50.39'
T2	N22°17'57"E	5.65'
T3	S67°03'27"E	28.63'
T4	S63°13'57"E	44.47'
T5	S58°27'04"E	34.56'
T6	N74°30'03"E	12.07'
T7	S71°29'20"E	5.11'
T8	N16°13'11"E	14.17'
T9	S66°17'47"E	33.43'
T10	S75°00'19"E	34.81'
T11	S65°25'38"E	61.19'
T12	S80°42'20"E	30.40'
T13	N04°33'59"W	20.65'
T14	N27°49'06"E	39.31'
T15	S84°33'55"E	17.15'
T16	N06°12'25"W	42.19'
T17	N47°12'30"W	56.35'
T18	N57°52'30"W	11.93'
T19	S18°51'46"W	22.51'
T20	N18°20'02"E	23.53'
T21	S12°34'14"W	20.33'
T22	S83°11'54"E	55.99'
T23	N15°45'43"E	12.50'
T24	S64°44'49"E	33.72'
T25	N69°13'44"W	43.85'
T26	N06°14'23"E	25.97'
T27	S06°14'23"W	34.17'
T28	N24°28'15"W	34.38'
T29	N87°23'52"W	21.99'
T30	S43°01'31"W	20.49'
T31	S35°18'40"E	29.37'
T32	N00°03'02"E	26.49'
T33	N05°31'15"W	36.27'
T34	S69°35'26"E	53.33'
T35	S71°22'03"E	32.06'
T36	N55°38'50"W	48.19'
T37	S82°19'58"W	15.25'
T38	N88°01'32"W	33.73'
T39	N04°52'11"W	29.84'
T40	N18°20'02"E	49.26'
T41	S06°12'25"E	39.10'
T42	N21°48'36"W	44.01'
T43	S56°17'32"E	36.31'
T44	N83°14'05"W	31.84'
T45	N80°32'15"W	42.42'
T46	N83°11'54"W	61.20'
T47	S76°07'38"E	44.79'
T48	N61°21'53"E	43.22'
T49	S85°03'53"E	39.85'
T50	S68°33'38"E	41.43'



GENERAL NOTES

1. WHEN CONFLICTS EXIST BETWEEN THE "STANDARD SPECIFICATIONS" AND THE "PLANS" ("PLANS" SHALL MEAN THE SHEETS NUMBERED 1 OF 15 THROUGH 15 OF 15 ENTITLED "CONSTRUCTION PLANS FOR HIGHLANDS SUBDIVISION, UNIT 2"), THE CONSTRUCTION OBSERVER SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION. IN GENERAL, THE PLANS SHALL GOVERN.
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS GOVERNING CONSTRUCTION SAFETY AND HEALTH.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE, ALL EXISTING UTILITIES.
7. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE ITS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. THE CONTRACTOR SHALL AT ALL TIMES TRY TO MINIMIZE THE DISTURBANCE TO THE EXISTING VEGETATION.
8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)
9. ALL TRENCHES AND EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED ACCORDING TO OSHA CONSTRUCTION SAFETY AND HEALTH STANDARDS. JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. BLASTING USING EXPLOSIVES SHALL NOT BE PERMITTED. THE USE OF OTHER TECHNIQUES SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER AND THE CITY OF ALBUQUERQUE.
11. CONTRACTOR SHALL OBTAIN A COPY OF SOILS REPORT FROM THE CONSTRUCTION OBSERVER PRIOR TO BEGINNING CONSTRUCTION.
12. ALL STATIONING IS BASED ON STREET CENTERLINE, UNLESS OTHERWISE NOTED.
13. CONTRACTOR SHALL COORDINATE WITH PNM, US WEST, GAS CO. OF NM AND JONES INTERCABLE FOR THE INSTALLATION OF THEIR FACILITIES. CONTRACTOR SHALL SCHEDULE THOSE UTILITIES SO AS TO ALLOW WORK TO PROCEED IN A TIMELY MANNER BY THE CONTRACTOR AND THE UTILITY FIRMS.
14. THE CONTRACTOR SHALL CONFINE ITS WORK WITHIN THE CONSTRUCTION LIMITS. ANY WORK PERFORMED OUTSIDE THE CONSTRUCTION LIMITS, WITHOUT WRITTEN PERMISSION FROM THE OWNER, SHALL REQUIRE THE CONTRACTOR TO INSTALL BARRICADES AND OR FLAGGING, AS DIRECTED BY THE OWNER, AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL ALSO REVEGETATE ALL AREAS DISTURBED OUTSIDE THE CONSTRUCTION LIMITS, AS DIRECTED BY THE OWNER, AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE DIRECTED BY THE OWNER IN A LETTER.

WATERLINES REQUIREMENTS

1. WATER AND SEWER LINE CROSSINGS UNDER THE BRIDGES SHALL INCLUDE ONE 4" PVC FILLED WITH GROUT ABOVE THE WATER OR SEWER LINE AS SPECIFIED IN THE PLANS. THE 4" PVC WILL SERVE AS A WARNING SIGN IF THE WATER OR SEWER LINES ARE UNCOVERED BY A FLOOD OR EXCAVATION IN THE AREA.
2. TEMPORARY WATERLINE CONNECTIONS FOR CONSTRUCTION PURPOSES SHALL BE INCIDENTAL TO THE PROJECT. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE CITY OF ALBUQUERQUE FOR USE OF EXISTING FIRE HYDRANTS FOR CONSTRUCTION WATER. THE COST OF PERMITS, METERS AND WATER USEAGE SHALL BE INCIDENTAL TO OTHER BID ITEMS. CONTRACTOR SHALL ADVISE HIGH DESERT INVESTMENT CORP. OF WHICH HYDRANTS THEY PREFER TO USE FOR CONSTRUCTION WATER PRIOR TO OBTAINING PERMITS FROM THE CITY OF ALBUQUERQUE.

CONSTRUCTION SIGNING: UNLESS GOVERNED BY A SPECIFIC PLAN, THE FOLLOWING NOTES APPLY:

- A. ALL BARRICADES AND SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST DIVISION EDITION.
- B. CONTRACTOR SHALL PREPARE A CONSTRUCTION SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC DIVISION, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
- C. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.

SPECIAL NOTES FOR CONTRACTOR - CORPS 404 PERMIT REQUIREMENTS:

THE FOLLOWING CONDITIONS WERE PLACED ON THE PROJECT BY THE CORP OF ENGINEERS, SECTION 404, NATIONWIDE PERMIT:

1. AVOID DISTURBANCE TO THE GRAMA GRASS CACTUS WHEREVER POSSIBLE.
2. PROTECT FISH AND WILDLIFE RESOURCES
 - A. STORE FUELS, LUBRICANTS, HYDRAULIC FLUIDS AND OTHER PETROCHEMICALS OUTSIDE THE 100-YEAR FLOODPLAIN.
 - B. INSPECT CONSTRUCTION EQUIPMENT DAILY TO ENSURE THAT NO LEAKS OR DISCHARGES OR LUBRICANTS, HYDRAULIC FLUIDS OR FUELS OCCUR IN THE AQUATIC OR RIPARIAN ECOSYSTEM, AND
 - C. CONTAIN PETROCHEMICAL SPILLS, INCLUDING CONTAMINATED SOIL, AND DISPOSE AT AN UPLAND SITE.
3. CONSTRUCTION WITHIN 200 FEET OF ARCHEOLOGICAL SITES ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES (LA 86078, LA 86079, LA 99727) WILL NOT BEGIN UNTIL AFTER THE CORPS HAS NOTIFIED YOU THAT COORDINATION WITH THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER IS COMPLETE.
4. THE CORPS WILL BE NOTIFIED IMMEDIATELY IF ANY PREVIOUSLY UNDISCOVERED CULTURAL RESOURCES ARE ENCOUNTERED DURING ANY CONSTRUCTION OPERATIONS. CONSTRUCTION WILL CEASE IN THE IMMEDIATE VICINITY OF THE RESOURCE UNTIL THE SIGNIFICANCE AND DISPOSITION OF THE RESOURCE HAS BEEN EVALUATED IN ACCORDANCE WITH CODE OF FEDERAL REGULATIONS 36 (CFR) 800.11.

MISCELLANEOUS NOTES:

1. ALL BOULDERS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PRESERVED AND STOCK PILED BY CONTRACTOR AT A LOCATION, ON SITE, DETERMINED BY OWNER.
2. CONTRACTOR SHALL MAINTAIN IN PLACE ALL EXISTING FENCES AND KEEP ALL GATES LOCKED AT NIGHT AND WHEN NOT PRESENT ON SITE.

RECLAMATION NOTES

1. SEE SUPPLEMENT SPECIFICATION BOOKLET ENTITLED "HIGH DESERT COMMUNITY RESTORATION AND ENHANCEMENT PLAN" DATED NOVEMBER 1994 FOR RESTORATION AND ENHANCEMENT PLAN SPECIFICATIONS.
2. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED IN THE ABOVE MENTIONED SPECIFICATION BOOKLET.
3. WORK AREAS SHALL BE LIMITED TO DESIGNATED ROAD RIGHT-OF-WAY AND WATERLINE EASEMENTS AS SHOWN ON THE PLANS. WORK OUTSIDE OF THE RIGHT-OF-WAY OR WATERLINE EASEMENTS IN EITHER CITY OPEN SPACE OR HIGH DESERT PROPERTY IS NOT ALLOWED WITHOUT WRITTEN CONSENT FROM CITY OPEN SPACE DIVISION AND HIGH DESERT INVESTMENT CORPORATION.
4. COMMENTS OR QUESTIONS CONCERNING THE RESTORATION SPECIFICATIONS SHALL BE DIRECTED TO EITHER THE CONSTRUCTION OBSERVER OR THE LANDSCAPE ARCHITECT.
5. ANY SUBSTITUTION OF PLANT SEED MATERIAL MUST BE APPROVED IN WRITING BY THE CONSTRUCTION OBSERVER. ADDITIONALLY,IF THE SUBSTITUTE MATERIAL IS TO BE USED IN CITY OPEN SPACE IT MUST BE APPROVED BY CITY OPEN SPACE DIVISION.
6. THE CONTRACTOR SHALL WARRANTY THE RECLAMATION WORK FOR A PERIOD OF TWO (2) GROWING SEASONS, CONTINGENT UPON ACCEPTANCE BY HIGH DESERT.

CONSTRUCTION ACCESS:



1. THE HIGHLANDS SUBDIVISION-UNIT 2 CONTRACTOR SHALL ACCESS FROM THE ACADEMY/TRAMWAY OR SPAIN /TRAMWAY INTERSECTIONS ONLY. ACCESS THROUGH THE HIGH DESERT DEVELOPMENT MUST BE COORDINATED AND APPROVED BY THE HIGH DESERT INVESTMENT CORP. DIRECT ACCESS INTO THE HIGHLANDS PROJECT MAY BE TAKEN ONLY FROM THE INTERSECTION OF HIGH DESERT ST. AND ELENA CALLEGOS PL.
2. THE HIGHLANDS SUBDIVISION CONTRACTOR SHALL COOPERATE IN ALLOWING ACCESS FOR OTHER PROJECTS UNDER CONSTRUCTION NEAR THE HIGHLANDS DEVELOPMENT. PROJECTS WHICH MAY BE UNDER CONSTRUCTION DURING THE SAME TIME AS THE HIGHLANDS.

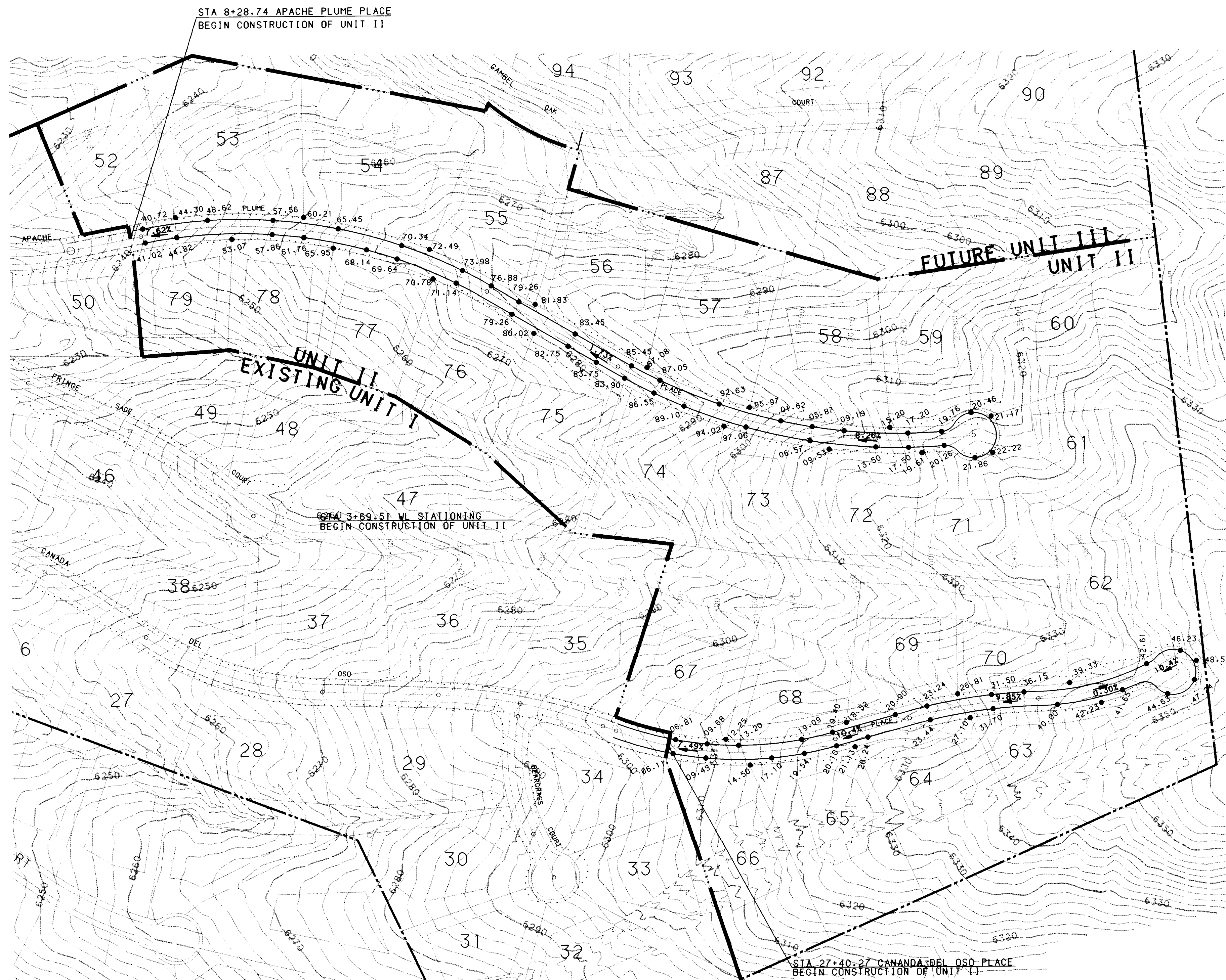
EXISTING UTILITIES:

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH LOCAL UTILITIES, ENGINEERING OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS PROVIDED TO OR OBTAINED BY THE ENGINEER. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROJECT MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THIS CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED, THIS CONTRACTOR SHALL REQUEST THAT THE ENGINEER MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. GAS COMPANY, PNM, US WEST AND/OR CABLE TV SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF THEIR EXISTING LINES. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED TO CLEAR CONSTRUCTION (IF ACTIVE) AND SHALL BE REMOVED (IF INACTIVE) BY THIS CONTRACTOR UNDER THIS CONTRACT. ALL BIDDERS ARE CAUTIONED TO INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. ALL EXISTING PIPING SHALL HAVE A MINIMUM EARTH COVERAGE AND DEPTHS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE MINIMUM COVERAGE DUE TO NEW GRADES OR CONSTRUCTION. CONTRACTOR SHALL PAY FOR ANY AND ALL COSTS OF PERMITS, LINE EXTENSIONS, FIRELINES, METER INSTALLATION, ETC., AS REQUIRED BY LOCAL GOVERNING UTILITIES ENGINEERING OFFICIALS.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY. THIS MAY BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE CONSTRUCTION LIMITS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. THE COST OF REQUIRED EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT COST.
4. DURING THE MONTHS OF JULY, AUGUST, OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT TO A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND THE SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
HIGHLANDS SUBDIVISION UNIT 11 GENERAL NOTES							
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE		
DRC CHAIRMAN	<i>B. G. Smith</i>	6-20-95	WATER		N/A	RWK	6-1-95
TRANSPORTATION	<i>RWD</i>		WASTE WATER		N/A	RWK	6-1-95
HYDROLOGY	<i>JPC</i>	6-12-95					
DRAWING NO.		5097.91		MAP NO. E-23		SHEET 4 OF 15	



LEGEND

PROJECT BOUNDARY

PROPOSED CURB & GUTTER

EXISTING CURB & GUTTER

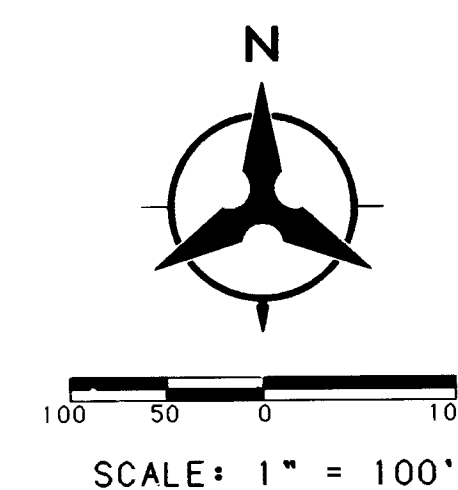
EXISTING CONTOUR

EXISTING SPOT ELEVATION

PROPOSED SPOT ELEVATION

DIRECTION OF FLOW

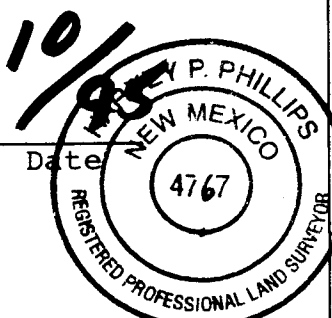
BUILDING ENVELOPE



RECORD DRAWING

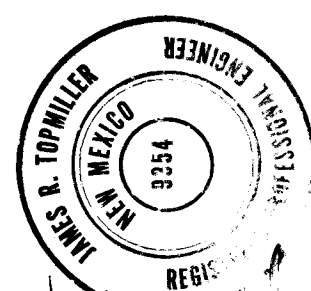
I, Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



Harvey P. Phillips
LS No. 4767

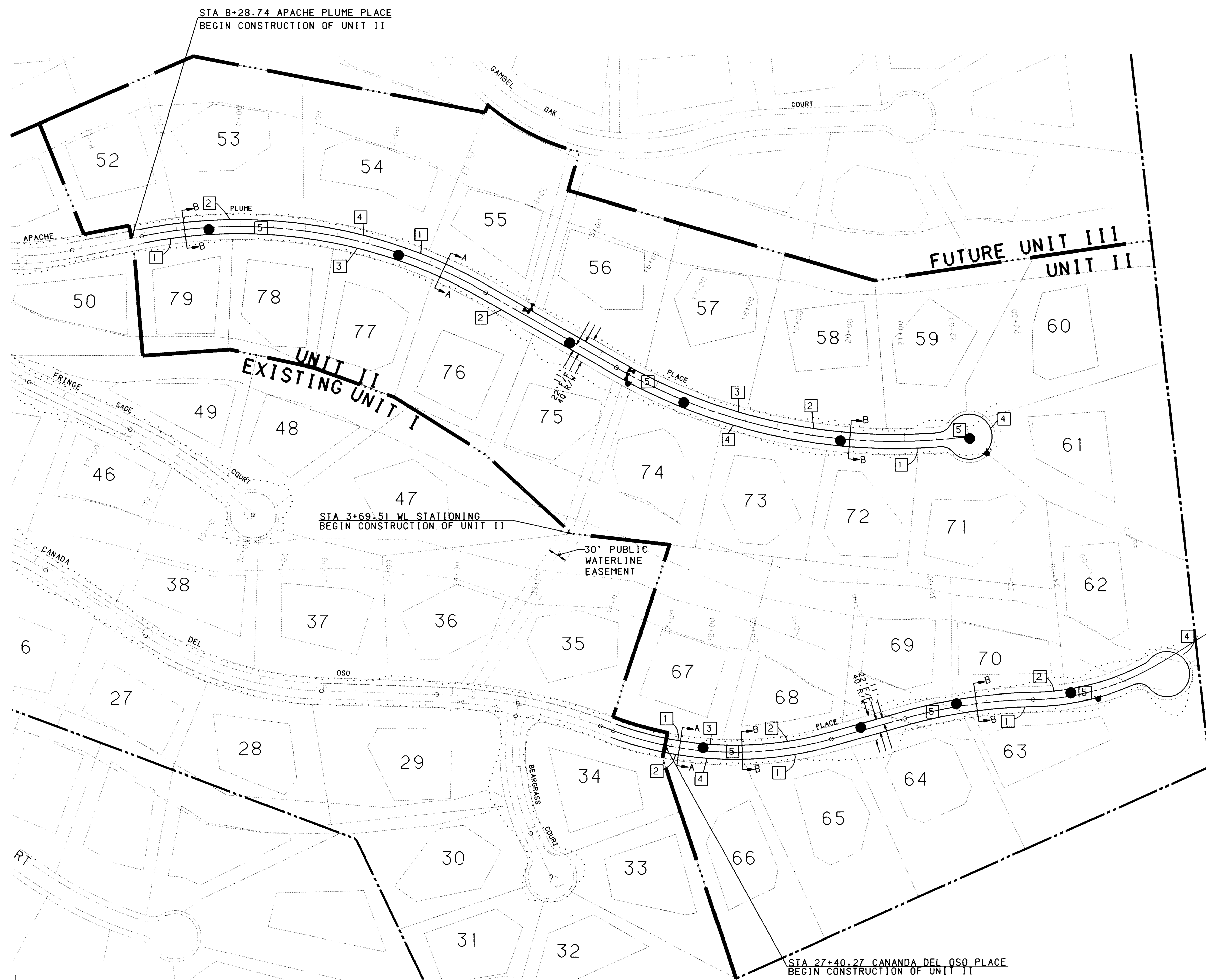


26-5097.91 0596

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	BY	FIELD NOTES	A STD. ACS BRASS TABLE STAMPED "1-024".	CONTRACTED BY	DATE	DATE
NO.	DATE	BY	FIELD NOTES	1 FT. ABOVE GROUND APPROX. TWO MILES NORTH OF MONTGOMERY BLVD. AND ONE MILE EAST OF TRAMWAY BLVD.	CONTRACTED BY	DATE	DATE
NO.	DATE	BY	FIELD NOTES	SEA LEVEL - DATUM OF 1929	CONTRACTED BY	DATE	DATE
NO.	DATE	BY	FIELD NOTES	ELEVATION = 6262.0'	CONTRACTED BY	DATE	DATE

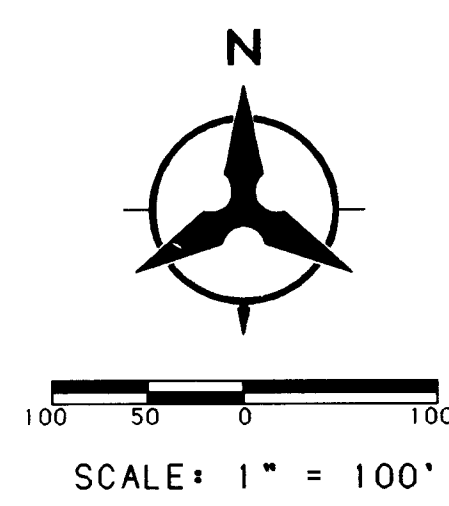


		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
HIGHLANDS SUBDIVISION - UNIT 2 OVERALL GRADING PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B. G. Bailey</i>	<i>6-20-95</i>	WATER	<i>N/A RWK</i>	<i>6-1-95</i>
TRANSPORTATION	<i>N. G. GAO</i>	<i>6-01-95</i>	WASTE WATER	<i>N/A RWK</i>	<i>6-1-95</i>
HYDROLOGY	<i>JPC</i>	<i>6-2-95</i>			
DRAWING NO.		5097.91	MAP NO.		E-23
			SHEET		5 OF 15



- KEYED NOTES**
- 1 DEPRESSED GUTTER TYPE CURB (MODIFIED) SEE SHEET 7 OF 15.
 - 2 RUNDOWN CURB TYPE AS PER STD. DWG. 2415
 - 3 TRANSITION FROM DEPRESSED GUTTER (MODIFIED) TO RUNDOWN CURB TYPE IN 10 LF.
 - 4 TRANSITION FROM RUNDOWN CURB TO DEPRESSED GUTTER (MODIFIED) IN 10 LF.
 - 5 BUILD RESIDENTIAL STREET ASPHALT PAVEMENT SECTION SEE SHEET 7 OF 15 FOR TYPICAL ASPHALT PAVEMENT SECTION.

- LEGEND**
- PROJECT BOUNDARY
 - PROPOSED CURB & GUTTER
 - EXISTING CURB & GUTTER
 - FUTURE DEVELOPMENT
 - PROPOSED SANITARY SEWER MANHOLE
 - EXISTING SANITARY SEWER MANHOLE
 - PROPOSED FIRE HYDRANT
 - EXISTING FIRE HYDRANT
 - PROPOSED GATE VALVE
 - EXISTING GATE VALVE
 - PROPOSED STREET LIGHT
 - BUILDING ENVELOPE



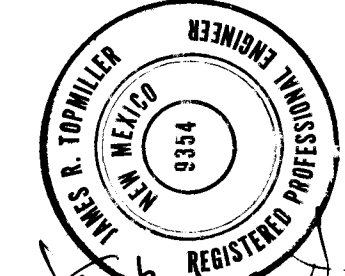
NOTE:
FOR CROSS SECTIONS ABOVE
A-A: SEE SHEET 7 OF 15
B-B: SEE SHEET 7 OF 15

RECORD DRAWING
I, Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
Harvey P. Phillips
LS No. 4767

24-5097.91 0090

ENGINEER'S SEAL		SEAL SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	BY	DATE	A STD. ACS BRASS TABLE STAMPED "1-D24"	CONTRACTOR	INSPECTOR'S	DATE
				CEMENTED IN TOP OF 2" IRON PIPE PROJECTIN	STAKED BY	DATE	
				1 FT. ABOVE GROUND APPROX. TWO MILES	INSPECTOR'S	DATE	
				NORTH OF MONTGOMERY BLVD. AND ONE MILE	VERIFICATION BY	DATE	
				EAST OF TRAMWAY BLVD.	CORRECTED BY	DATE	
				SEA LEVEL - DATUM OF 1929	MICRO-FILM INFORMATION		
				ELEVATION = 6282.0'	RECORDED BY	DATE	
					NO.		



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

HIGHLANDS SUBDIVISION - UNIT 2
OVERALL PAVING PLAN

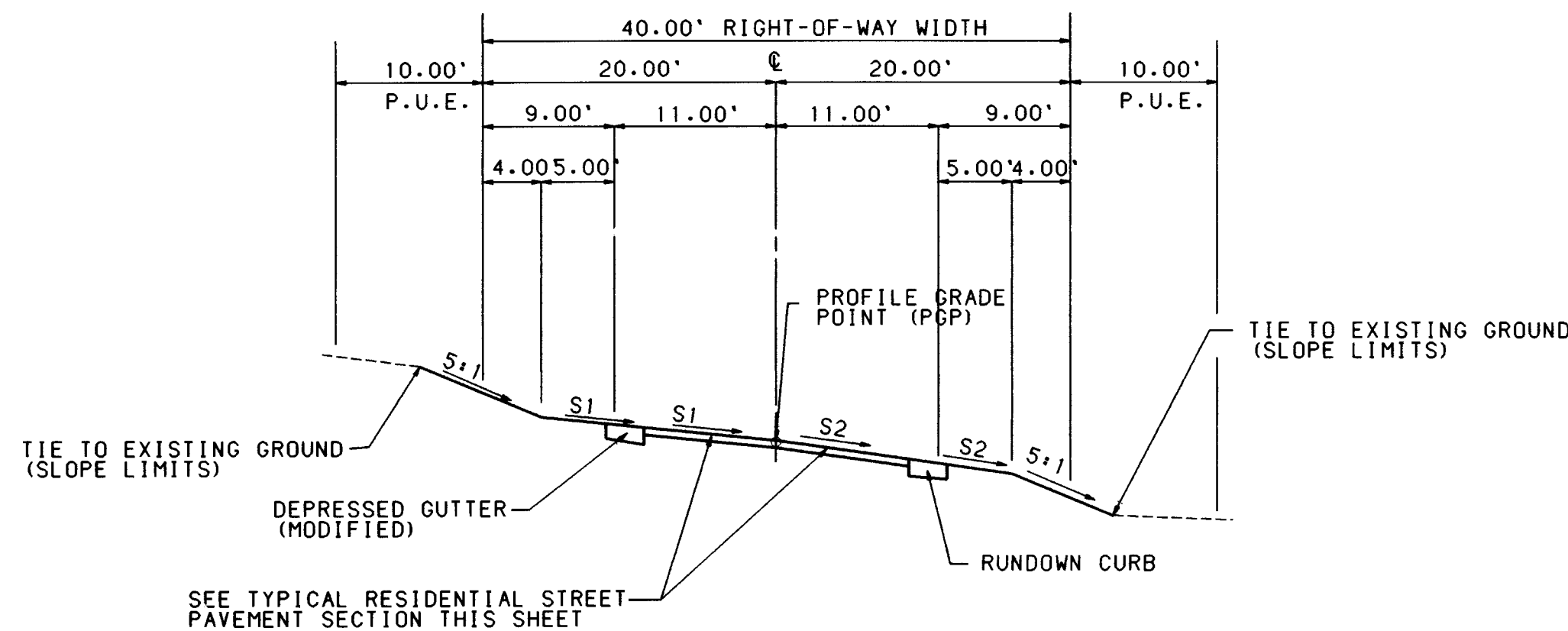
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Buckley</i>	6-20-95	WATER	N/A RWK	6-1-95
TRANSPORTATION	<i>R. Phillips</i>	6-01-95	WASTE WATER	N/A RWK	6-1-95
HYDROLOGY	<i>ARC</i>	6-12-95			

DRAWING NO.	5097.91	MAP NO.	E-23	SHEET	6 OF 15
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BHI JOB NO. 94146.44

SCANNED BY
BY LASON

Copyright Bohannon-Huston, Inc. 1994
DATE: NOV 18, 1994

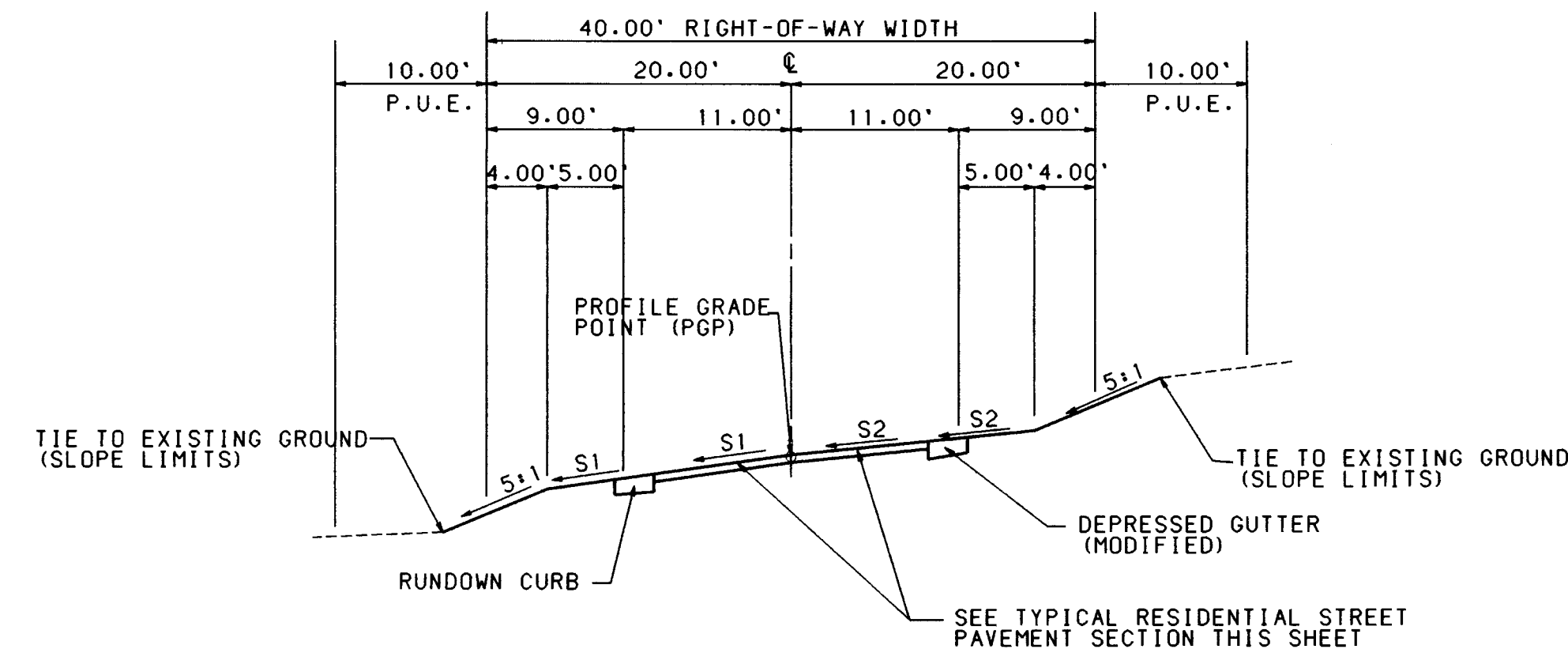


RESIDENTIAL STREET SECTION A-A

SCALE 1"=10' HORIZONTAL
SCALE 1"= 5' VERTICAL

CAÑADA DEL OSO PLACE	
STA 27+40.27	S1=S2=-3.00%
STA 27+40.27 TO 28+00.00	TRANSITION TO SECTION B-B
APACHE PLUME PLACE	
STA 8+28.74 TO 8+45.04	SEE SHEET 9 OF 15 FOR DETAILS ABOUT TRANSITIONING
STA 8+45.04 TO 11+70.00	S1=S2=-1.00%
STA 11+70.00 TO 12+50.00	TRANSITION S1 & S2 FROM -1.00% TO -3.00%
STA 12+50.00 TO 13+20.00	S1=S2=-3.00%
STA 13+20.00 TO 13+60.00	TRANSITION S1 & S2 FROM -3.00% TO -1.00%
STA 13+60.00 TO 14+30.00	S1=S2=-1.00%
STA 14+30.00 TO 14+70.00	TRANSITION S1 & S2 FROM -1.00% TO -3.00%
STA 14+70.00 TO 16+80.00	S1=S2=-3.00%
STA 16+80.00 TO 17+40.00	TRANSITION S1 & S2 FROM -3.00% TO -1.00%
STA 17+40.00 TO 18+20.00	S1=S2=-1.00%
STA 18+20.00 TO 19+00.00	TRANSITION TO SECTION B-B

NOTE
CONTRACTOR SHALL COORDINATE AND VERIFY ALL DATA WITH PAVING PLAN AND PROFILE SHEETS.



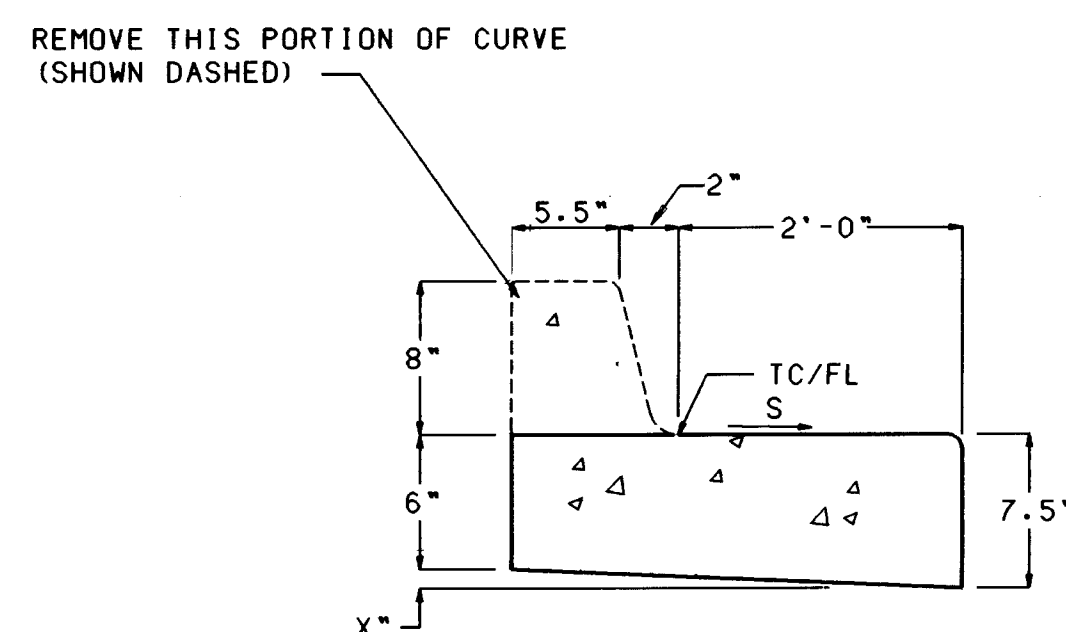
RESIDENTIAL STREET SECTION B - B

SCALE 1"=10' HORIZONTAL
SCALE 1"= 5' VERTICAL

CAÑADA DEL OSO PLACE	
STA 28+00.00 TO 29+35.00	S1=S2=0.50%
STA 29+35.00 TO 29+80.00	TRANSITION FROM 0.50% TO 3.00%
STA 29+80.00 TO 30+60.00	S1= 0.50% & S2= 3.00%
STA 30+60.00 TO 31+05.00	TRANSITION S2 FROM 3.00% TO 0.50%
STA 31+05.00 TO 32+60.00	S1=S2=0.50%
STA 32+60.00 TO 33+05.00	TRANSITION S1 FROM 0.50% TO 3.00%
STA 33+05.00 TO 33+30.00	S1= 3.00% S2= 0.50%
STA 33+30.00 TO 33+75.00	TRANSITION S2 FROM 0.50% TO 3.00%
STA 33+75.00 TO 35+00.00	S1= S2= 3.00%
STA 35+00.00 TO 35+35.00	TRANSITION S1 FROM 3.00% TO 1.00%
STA 35+35.00 TO END OF CUL-DE-SAC	S1= 1.00% S2= 3.00%

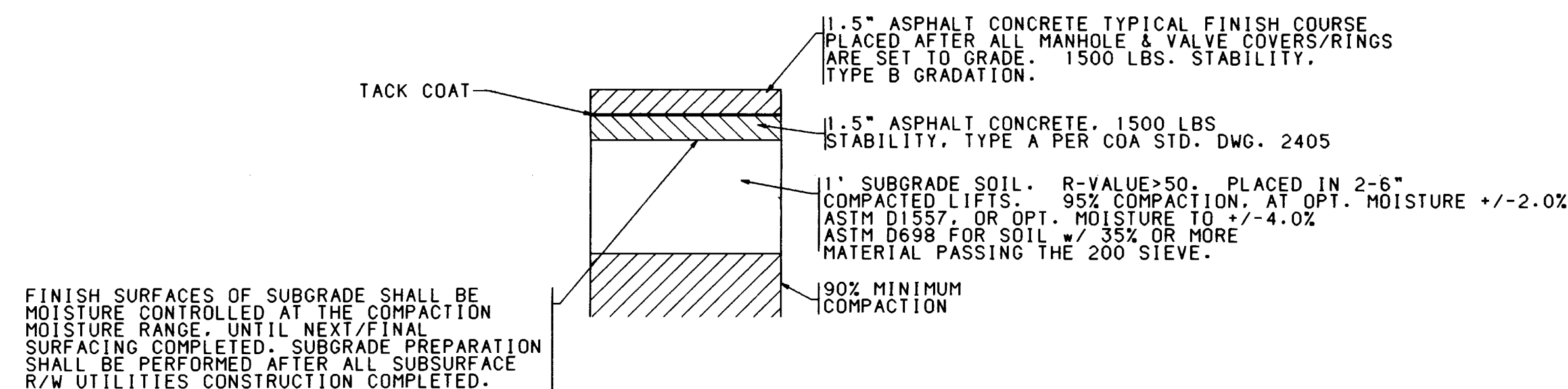
APACHE PLUME PLACE	
STA 19+00.00 TO 20+00.00	S1=S2=3.00%
STA 20+00.00 TO 20+40.00	TRANSITION S1 & S2 FROM 3.00% TO 1.00%
STA 20+40.00 TO 21+20.00	S1=S2=1.00%
STA 21+20.00 TO 21+40.00	TRANSITION S1 & S2 FROM 1.00% TO 2.00%
STA 21+40 TO BEGINING OF CUL-DE-SAC	S1=S2=2.00%

NOTE
CONTRACTOR SHALL COORDINATE AND VERIFY ALL DATA WITH PAVING PLAN AND PROFILE SHEETS.



S=SLOPE (VARIES TO MATCH CROSS SLOPE OF PAVEMENT)
NOTE: X-DIMENSION VARIES WITH SLOPE

DEPRESSED GUTTER (MODIFIED)



RESIDENTIAL STREET ASPHALT PAVEMENT SECTION

AS PER CUA STD. DWG 2405

RECORD DRAWING

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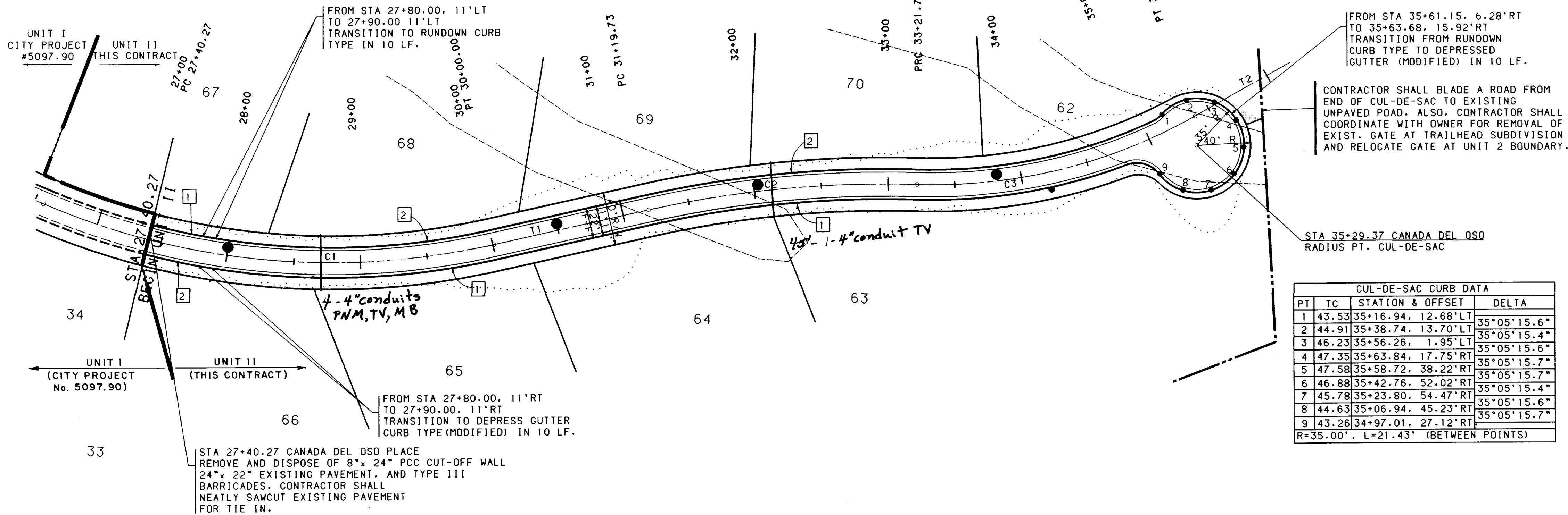
Harvey P. Phillips
LS No. 4767
10/1/95
REGISTERED PROFESSIONAL LAND SURVEYOR
STATE OF NEW MEXICO
AT 67

SCANNED BY
BY LASON

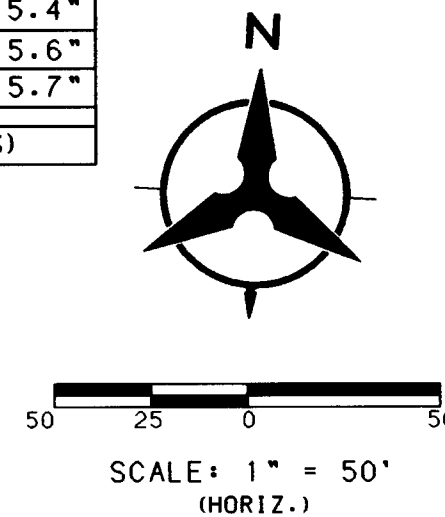
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
THE HIGHLANDS AT HIGH DESERT ROADWAY CROSS-SECTIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	6/20/95	6-20-95	WATER	U/A RUC	6-1-95
TRANSPORTATION	6-21-95	6-21-95	WASTE WATER	N/A RUC	6-1-95
HYDROLOGY	6-22-95	6-22-95			
DRAWING NO.	5097.91	MAP NO. E-23	SHEET 7 OF 15		

CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	28+73.08	27° 09' 3.5"	132.81	260.63	550.00
C2	32+21.29	14° 28' 10"	101.56	202.03	800.00
C3	34+33.00	31° 15' 7.1"	111.23	216.93	397.70

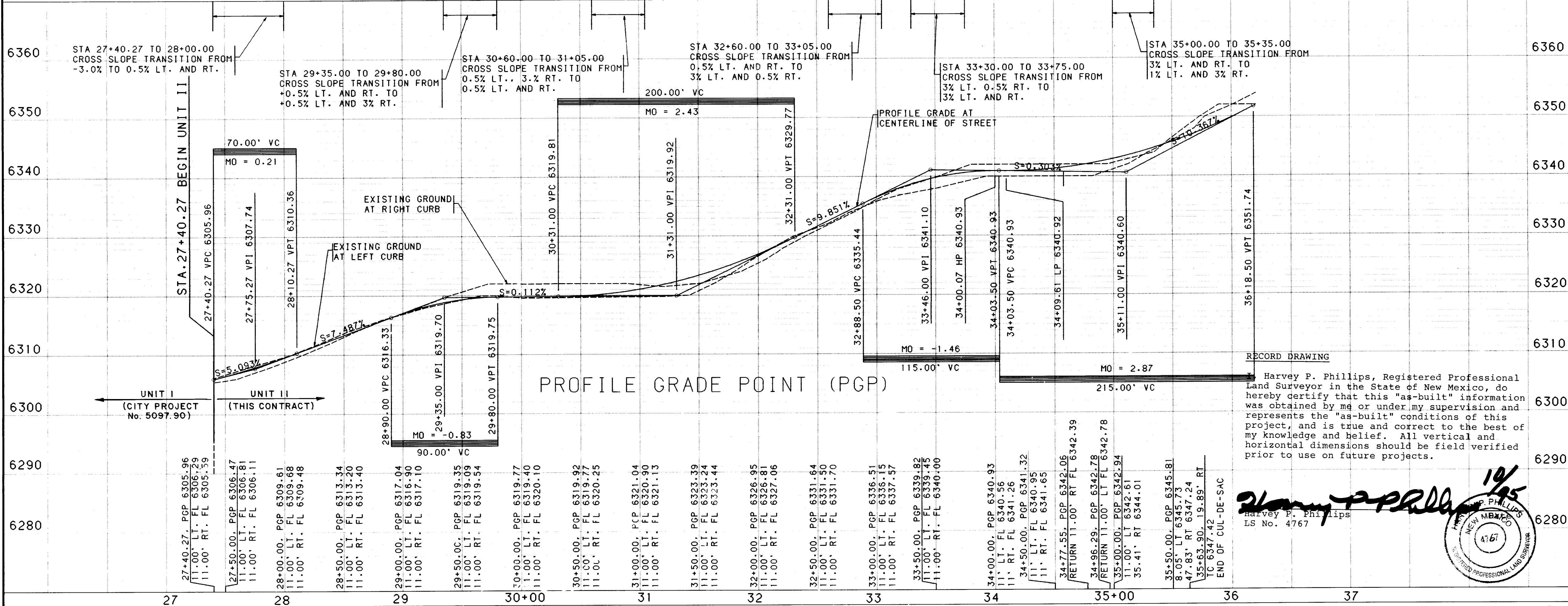
TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N74° 30' 03"E	118.83'
T2	N57° 43' 06"E	111.31'



CUL-DE-SAC CURB DATA			
PT	TC	STATION & OFFSET	DELTA
1	43.53	35+16.94, 12.68' LT	35° 05' 15.6"
2	44.91	35+38.74, 13.70' LT	35° 05' 15.4"
3	46.23	35+56.26, 1.95' LT	35° 05' 15.6"
4	47.35	35+63.84, 17.75' RT	35° 05' 15.7"
5	47.58	35+58.72, 38.22' RT	35° 05' 15.7"
6	46.88	35+42.76, 52.02' RT	35° 05' 15.7"
7	45.78	35+23.80, 54.47' RT	35° 05' 15.4"
8	44.63	35+06.94, 45.23' RT	35° 05' 15.6"
9	43.26	34+97.01, 27.12' RT	35° 05' 15.7"
R=35.00', L=21.43' (BETWEEN POINTS)			



CANADA DEL OSO PLACE



RECORD DRAWING
Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
LS No. 4767

- NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF RUNDOWN CURB UNLESS OTHERWISE SPECIFIED.
 5. CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
 6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
 7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
 8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
 9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
 10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
 11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).

ENGINEER'S SEAL SURVEY INFORMATION		FIELD NOTES		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	BY	DATE	NO.	DATE	NO.	DATE

KEYED NOTES		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
NO.	DATE	NO.	DATE	MPE/KGP	JAO/SV	JRT			
1									
2									

26-5097.91 0896

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

THE HIGHLANDS AT HIGH DESERT UNIT-2
PAVING PLAN & PROFILE
CANADA DEL OSO PL. STA. 27+40.27 TO 34+69.25

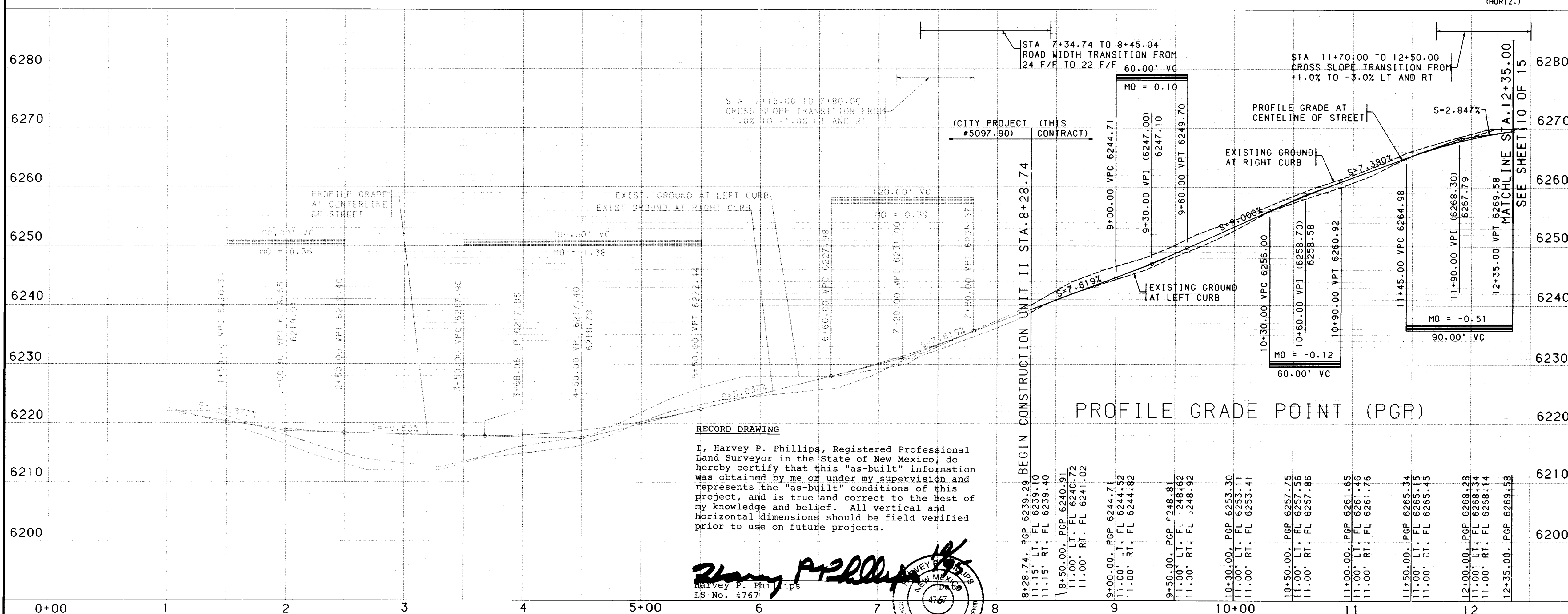
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	6-1-95	6-1-95	WATER	NIA RUK	6-1-95
TRANSPORTATION	6-1-95	6-1-95	WASTE WATER	NIA RUK	6-1-95
HYDROLOGY	6-1-95	6-1-95			

DRAWING NO. 5097.91 MAP NO. E-23 SHEET 8 OF 15

Plan view of a road construction project. The drawing shows a road alignment with stationing from 0+00 to 12+35.00. The road is divided into two units: UNIT I (CITY PROJECT #5097.90) and UNIT II (THIS CONTRACT). Key features include:

- Stationing:** 0+00, 1+00, 2+00, 3+00, 4+00, 5+00, 6+00, 7+00, 8+00, 9+00, 10+00, 11+00, 12+00.
- Unit Division:** UNIT I (CITY PROJECT #5097.90) and UNIT II (THIS CONTRACT).
- Construction Notes:**
 - STA 8+28.74, APACHE PLUME PLACE REMOVE AND DISPOSE 53 8"x 24" PCC CUT-OFF WALL, 24"x22" OF EXISTING PAV'T AND TYPE III BARRICADES CONTRACTOR SHALL NEATLY SAWCUT EXISTING PAVEMENT FOR TIE-IN.
 - 4" Conduit PLM FROM STA 11+80.00, 11' RT TO 11+90.00, 11' RT TRANSITION FROM DEPRESSED GUTTER (MODIFIED) TO RUNDOWN CURB TYPE IN 10LF
 - STA 7+34.74 TO 8+45.04 ROAD WIDTH TRANSITION FROM 24 F/F TO 22 F/F
- Other Labels:** 12, 13, 43, 50, 51, 52, 78, 79, 80, 94, 97, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200.

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	N62° 29' 52"E	16.30'



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Harvey P. Phillips
LS No. 4767

2. INSTALL RUNDOWN CURB TYPE AS
PER STD DWG 2415.



APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.G. Ambler</i>	6-20-95	WATER	<i>VIA RUK</i>	6-1-95
TRANSPORTATION	<i>R. R. Ruk</i>	6-01-95	WASTE WATER	<i>N/A RUK</i>	6-1-95
HYDROLOGY	<i>B.G.</i>	6-20-95			

DRAWING NO. 5097.91		MAP NO. E-23	SHEET 9 OF 15
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USERNAME: CDP:[C9414640.PAD2]
FILENAME: APPNP2.GRF

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SCANNED BY
BY LASON

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

DRAWING NO.	5097.91	MAP NO.	E-23	SHEET	9	OF	15
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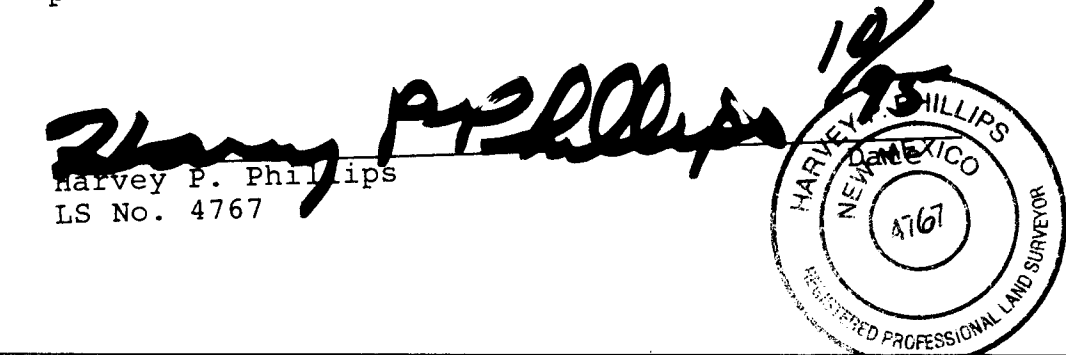
Copyright Bohannon-Huston, Inc. 199

TANGENT DATA		
NUMBER	BEARING	DISTANCE
T1	S76° 12' 13"E	233.95'

CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	12+99.75	14° 48' 24.1"	99.75'	198.39'	767.70'
C2	19+27.38	37° 30' 50.3"	295.03'	568.83'	568.79'

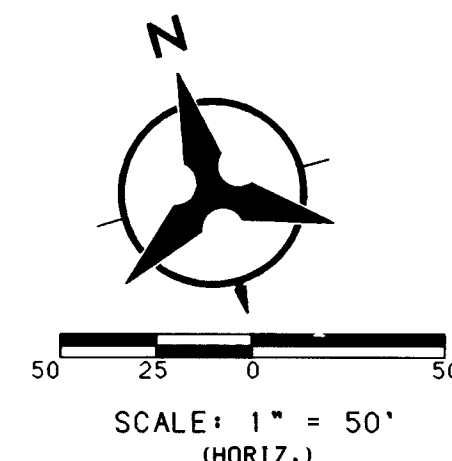
RECORD DRAWING

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APACHE PLUME PLACE

CUL-DE-SAC CURB DATA			
PT	TC	STATION & OFFSET	DELTA
1	20.23	21+73.08, 21.33' LT	35° 46' 42.2"
2	20.30	21+91.29, 33.63' LT	35° 46' 42.3"
3	20.68	22+13.19, 32.87' LT	35° 46' 42.4"
4	21.22	22+30.14, 19.65' LT	35° 46' 42.4"
5	21.97	22+36.17, 0.99' RT	35° 46' 42.2"
6	22.07	22+28.98, 21.26' RT	35° 46' 42.5"
7	22.02	22+11.31, 33.50' RT	35° 46' 42.2"
8	21.66	21+90.25, 33.18' RT	35° 46' 42.2"
9	21.12	21+73.28, 20.68' RT	35° 46' 42.5"
R=35.00', L=21.86' (BETWEEN POINTS)			



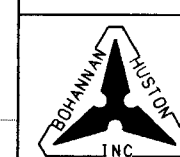
NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURB RETURN RADI SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF RUNDOWN CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
- REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).

KEYED NOTES

- INSTALL DEPRESSED GUTTER TYPE CURB AS PER DETAIL SHEET 7 OF 15.
- INSTALL RUNDOWN CURB TYPE AS PER STD DWG 2415.

26-5097.91 1096

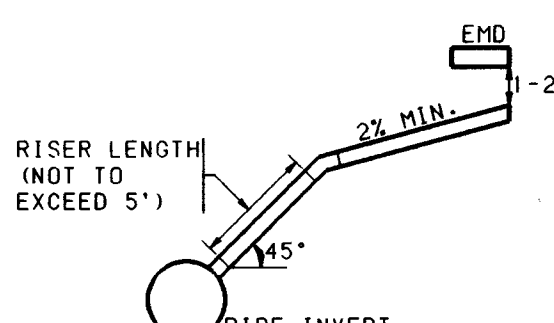
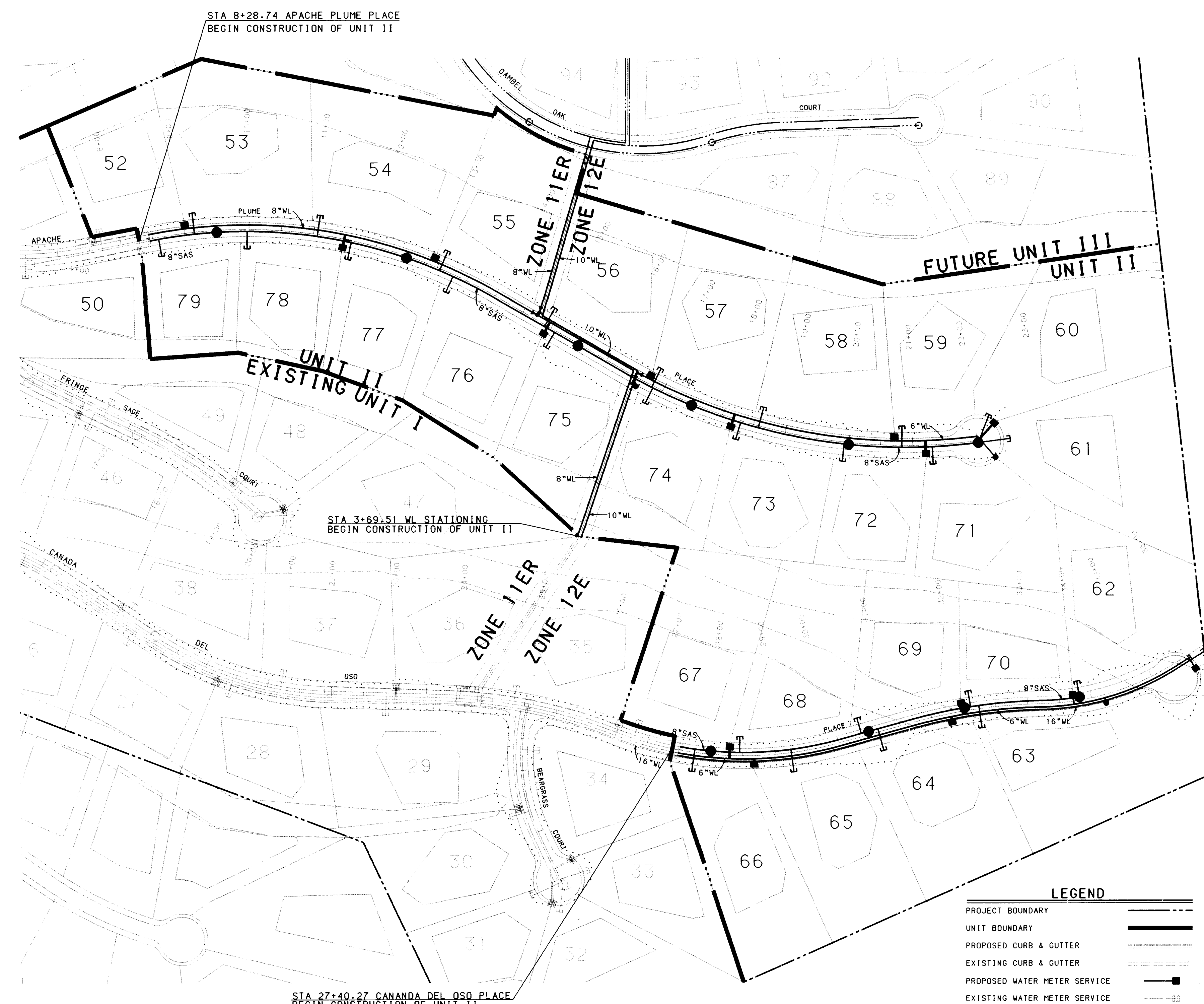


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

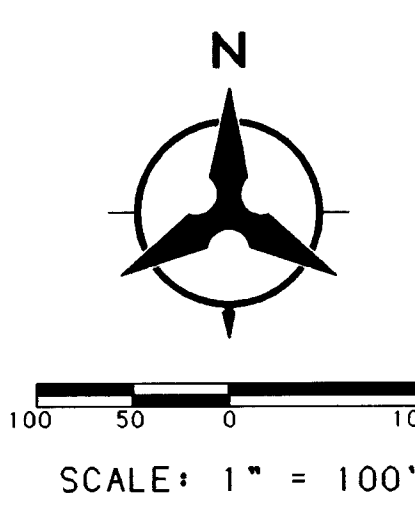
THE HIGHLANDS AT HIGH DESERT UNIT -2
PAVING PLAN & PROFILE
APACHE PLUME PL. STA 12+35.00 TO 22+36.18

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	<i>[Signature]</i>	6-20-95	WATER	VIA RWE	6-1-95
TRANSPORTATION	<i>[Signature]</i>	6-21-95	WASTE WATER	VIA RWE	6-1-95
HYDROLOGY	<i>[Signature]</i>	6-12-95			

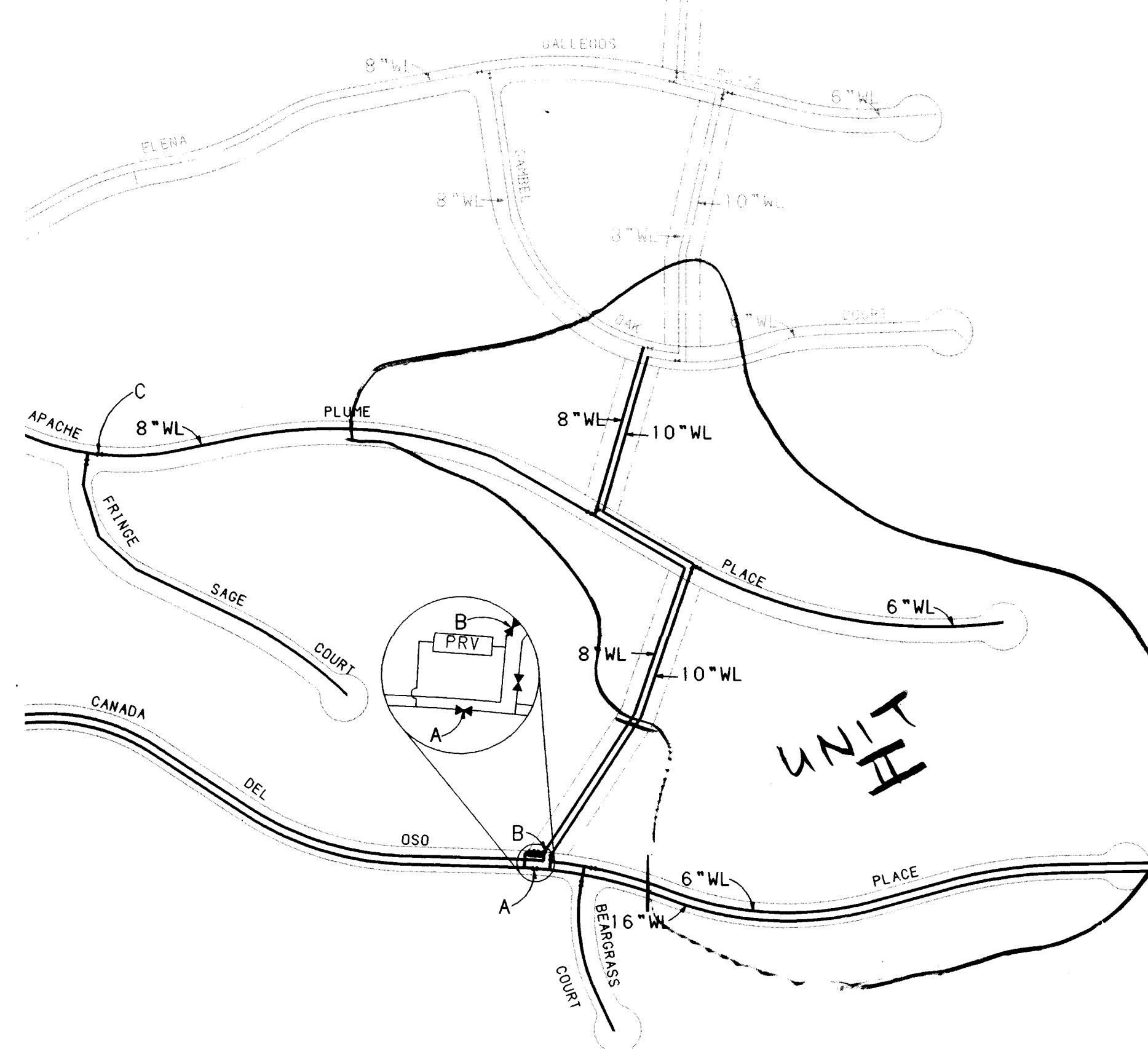
DRAWING NO.	5097.91	MAP NO.	E-23	SHEET	10	OF	15
				DATE			



SERVICE RISER DETAIL
(SERVICE CONNECTION & INSTALLATION
TO CONFORM TO COA STD. DWG. 2134.
USE CI SOIL PIPE ONLY)



- LEGEND
- PROJECT BOUNDARY
 - UNIT BOUNDARY
 - PROPOSED CURB & GUTTER
 - EXISTING CURB & GUTTER
 - PROPOSED WATER METER SERVICE
 - EXISTING WATER METER SERVICE
 - PROPOSED FIRE HYDRANT
 - EXISTING FIRE HYDRANT
 - PROPOSED GATE VALVE
 - EXISTING GATE VALVE
 - PROPOSED SANITARY SEWER MANHOLE
 - EXISTING SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER LINE
 - EXISTING SANITARY SEWER LINE
 - PROPOSED WATER LINE
 - EXISTING WATER LINE
 - PROPOSED SANITARY SEWER SERVICE
 - EXISTING SANITARY SEWER SERVICE
 - BUILDING ENVELOPE
 - FUTURE DEVELOPMENT
 - FUTURE UTILITIES



WATER SHUT-OFF REQUIREMENTS
CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF THIS PROJECT.

AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN. CONTRACTOR SHALL NOT OPERATE CITY VALVES.

DESCRIPTION OF CONNECTION	VALVE TO CLOSE
16" WL IN CANADA DEL OSO PLACE	A (16")
6" WL IN CANADA DEL OSO PLACE	A (16")
10" WL IN WATERLINE EASEMENT	A (16")
8" WL IN WATERLINE EASEMENT	B (8")
8" WL IN APACHE PLUME PLACE	C (8")

NOTE: VALVES A, B, AND C ARE NOT SHOWN ON THE COA AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, AND FOR THIS REASON, ARE LABELED AS SUCH FOR THIS PLAN ONLY. THE CONTRACTOR SHALL COORDINATE THE SHUT-OFF PLAN WITH THE OWNER.

WATER SHUT OFF PLAN
NOT TO SCALE

RECORD DRAWING
I, Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
L.S. No. 4767

24-5097.91 1196

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
HIGHLANDS SUBDIVISION - UNIT 2 OVERALL UTILITY PLAN					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	B.G. Loomis	6-20-95	WATER	R.W. Kane	6-1-95
TRANSPORTATION	R.W. Kane	6-01-95	WASTE WATER	R.W. Kane	6-1-95
HYDROLOGY	JPC	6-12-95			
DRAWING NO.	5097.91	MAP NO. E-23	SHEET 11	OF 15	

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DATE: NOV 18, 1994

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
REMARKS		REVISIONS		DESIGN		MICRO-FILM INFORMATION	
DESIGNED BY	KGP	DATE	2/95	CONTRACTOR	NEW CONCEPTS, INC.	INSPECTOR'S	DATE
DRAWN BY	JAO	DATE	2/95	STAMPED BY	H.P.	APPROVED BY	DATE
CHECKED BY	JRT	DATE	2/95	VERIFIED BY	J.S.	DATE	DATE
				DATE	DATE	DATE	DATE

SAS CURVE DATA						
NUMBER	PI STA.	DELTA		TANGENT	LENGTH	RADIUS
C8	27+77.44	4° 39'	34.7°	22.17'	44.32'	545.00'
C9	29+00.66	20° 55'	43.5°	100.66'	199.07'	545.00'
C10	31+61.66	5° 57'	49.7°	41.93'	83.79'	805.00'
C11	32+62.85	8° 30'	14.7°	59.85'	119.48'	805.00'
C12	32+51.55	8° 40'	34.3°	29.79'	59.47'	392.70'

WATERLINE CURVE DATA

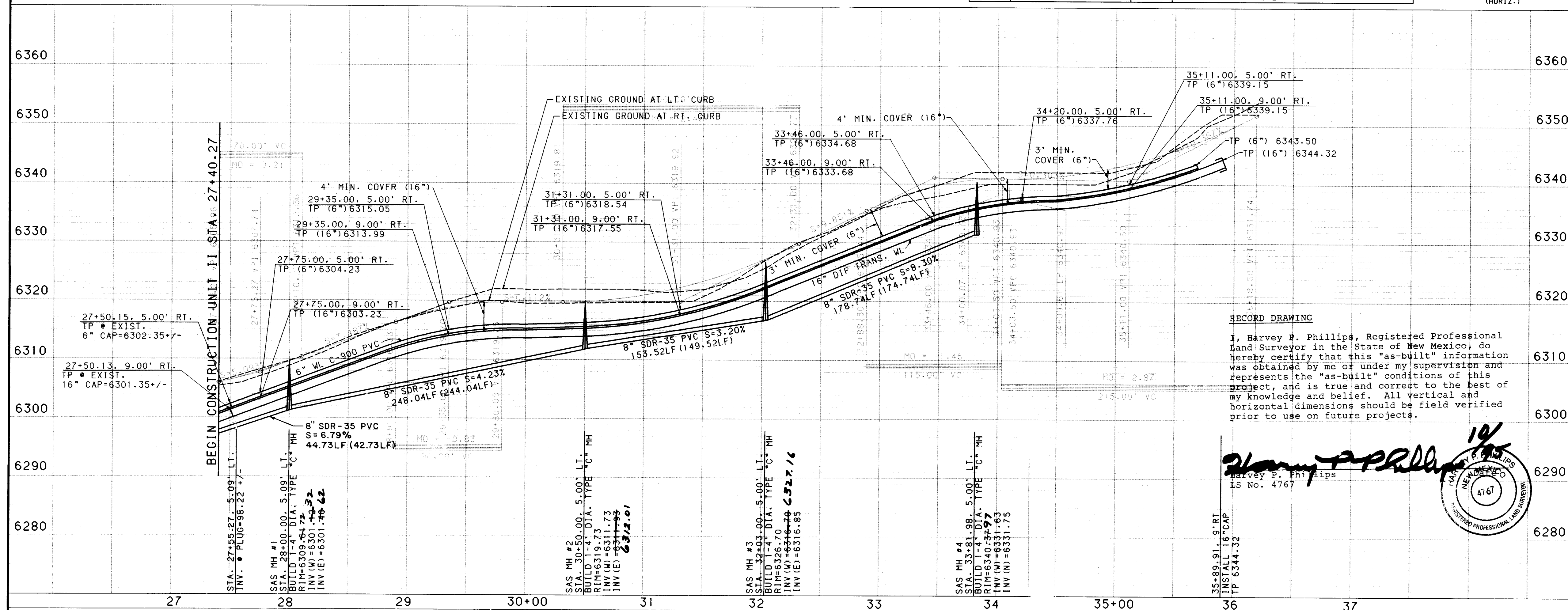
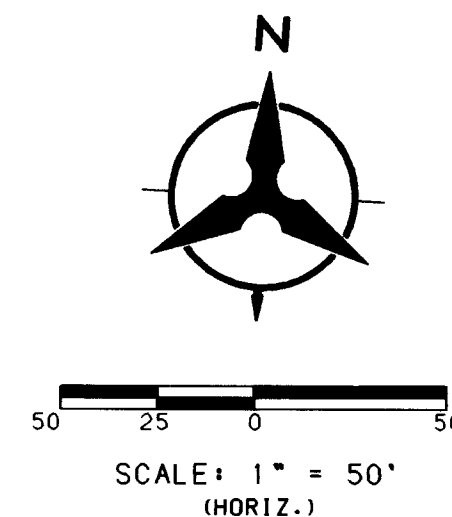
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	28+78.89	26° 07' 26.1"	128.76'	253.05'	555.00'
C2	32+20.64	14° 28' 44"	100.91'	200.75'	795.00'
C3	33+71.96	14° 10' 59.5"	50.10'	99.69'	402.70'
C4	34+80.64	17° 04' 7.5"	60.43'	119.97'	482.70'
C5	28+79.82	26° 07' 26.1"	129.69'	254.87'	559.00'
C6	32+20.13	14° 28' 4.4"	100.40'	199.74'	791.00'
C7	34+35.51	31° 15' 7.1"	113.75'	221.83'	406.70'

WATER & SANITARY SEWER SERVICES

LOT NUMBER	STATION & OFFSET	WL TYPE	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
62	33+73.00, 5.00' RT.	SINGLE	33+81.98, 5.00' LT.	24.00'	33.50' 80
63	32+12.04, 5.00' RT.	DOUBLE	32+25.00, 5.00' LT.	36.00'	22.00
64	32+12.04, 5.00' RT.	DOUBLE	30+65.00, 5.00' LT.	36.00'	15.00
65	28+65.82, 5.00' RT.	DOUBLE	29+25.00, 5.04' LT.	36.00'	10.32
66	28+65.82, 5.00' RT.	DOUBLE	27+75.00, 5.09' LT.	36.00'	02.00
67	28+29.41, 5.00' RT.	DOUBLE	EXISTING	---	---
68	28+29.41, 5.00' RT.	DOUBLE	28+45.98, 5.09' LT.	24.00'	04.50' 70
69	31+99.11, 5.00' RT.	DOUBLE	30+38.00, 5.00' LT.	24.00'	12.85
70	31+99.11, 5.00' RT.	DOUBLE	32+12.00, 5.00' LT.	24.00'	19.50

WATERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	28+78.89	26° 07' 26.1"	128.76'	253.05'	555.00'
C2	32+20.64	14° 28' 44"	100.91'	200.75'	795.00'
C3	33+71.86	14° 10' 59.5"	50.10'	99.69'	402.70'
C4	34+80.64	17° 04' 7.5"	60.43'	119.97'	402.70'
C5	28+78.89	26° 07' 26.1"	129.69'	254.87'	559.00'
C6	32+20.13	14° 28' 4.4"	100.40'	199.74'	791.00'
C7	34+35.51	31° 15' 7.1"	113.75'	221.83'	406.70'

WATER & SANITARY SEWER SERVICES						
LOT NUMBER	STATION & OFFSET	WL TYPE	STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG	
62	33+73.00, 5.00' RT.	SINGLE	33+81.98, 5.00' LT.	24.00'	23.56	8.9
63			32+25.00, 5.00' LT.	36.00'	22.00	
64	32+12.04, 5.00' RT.	DOUBLE	30+65.00, 5.00' LT.	36.00'	15.05	
65			29+25.00, 5.04' LT.	36.00'	10.32	
66	28+65.82, 5.00' RT.	DOUBLE	27+75.00, 5.09' LT.	36.00'	02.00	
67			EXISTING	---	---	
68	28+29.41, 5.00' RT.	DOUBLE	28+45.00, 5.09' LT.	24.00'	04.17	10.0
69			30+38.00, 5.00' LT.	24.00'	12.85	
70	31+99.11, 5.00' RT.	DOUBLE	32+12.00, 5.00' LT.	24.00'	19.50	
62,63	35+64.95, 5.00' RT.	SINGLE	1" LANDSCAPE METER			



RECORD DRAWING

I, Harvey R. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
LS No. 4767

19/75
HARRY P. PHILLIPS
NEW DATE
MEXICO
A767
EVOR

NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF ROUNDOFF CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4"x4"x.5" POST AND EMD AT THE END OF EACH SANITARY SEWER SERVICE.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
12. INSTALL ALL WATER LINES IN ACCORDANCE WITH COA STANDARD SPECS AND THE RESTRAINED JOINT TABLE BELOW.

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED			
	(6")	(8")	(10")	(16")
1.25" H BEND	2'	3'	3'	5'
2.50" H BEND	4'	5'	6'	10'
3.50" H BEND	8'	11'	13'	21'
4.00" H BEND	20'	26'	31'	50'
GATE VALVE	55'	72'	86'	---
STRIKELY VALVE	---	---	---	108'
FLAP	55'	72'	86'	108'

NOTE:

1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 15 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 15 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

THE HIGHLANDS AT HIGH DESERT UNIT-2
UTILITY PLAN & PROFILE
CANADA DEL OSO PL. STA. 27+40.27 TO 34+69.25

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.G. Sedyky	6-20-95	WATER	R.W. Kane	6-1-95
TRANSPORTATION	M.A. Rao	6-01-95	WASTE WATER	R.W. Kane	6-1-95
HYDROLOGY	DOC	6-12-95			

DRAWING
NO.

MAP NO.
E-23

SHEET 12 OF 15

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FILENAME: OSQPNP4.GRF
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SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

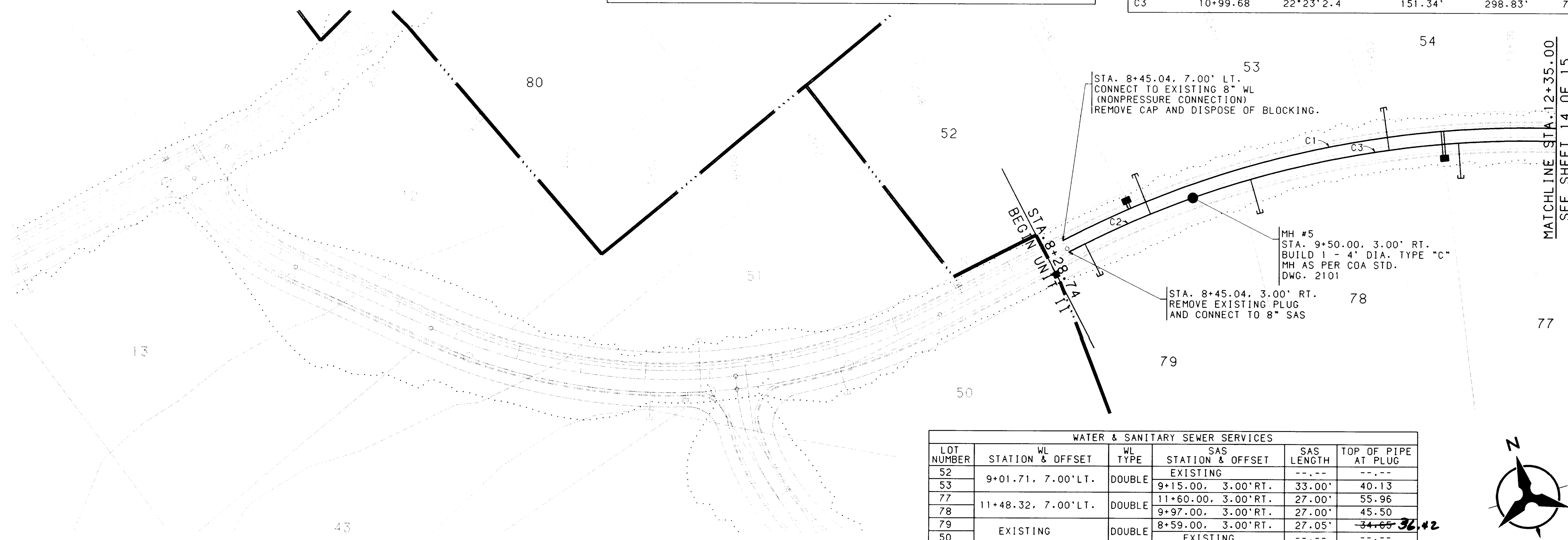
BHI JOB NO. 94146.4

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DATE:

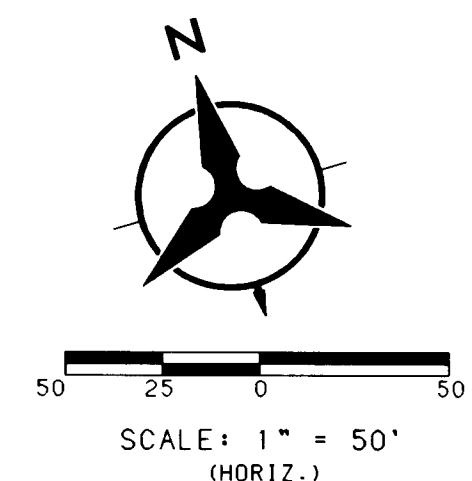
SCANNED BY
BY LASON

WATER CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	10+52.50	41°17'52.8"	291.95'	558.40'	774.71'

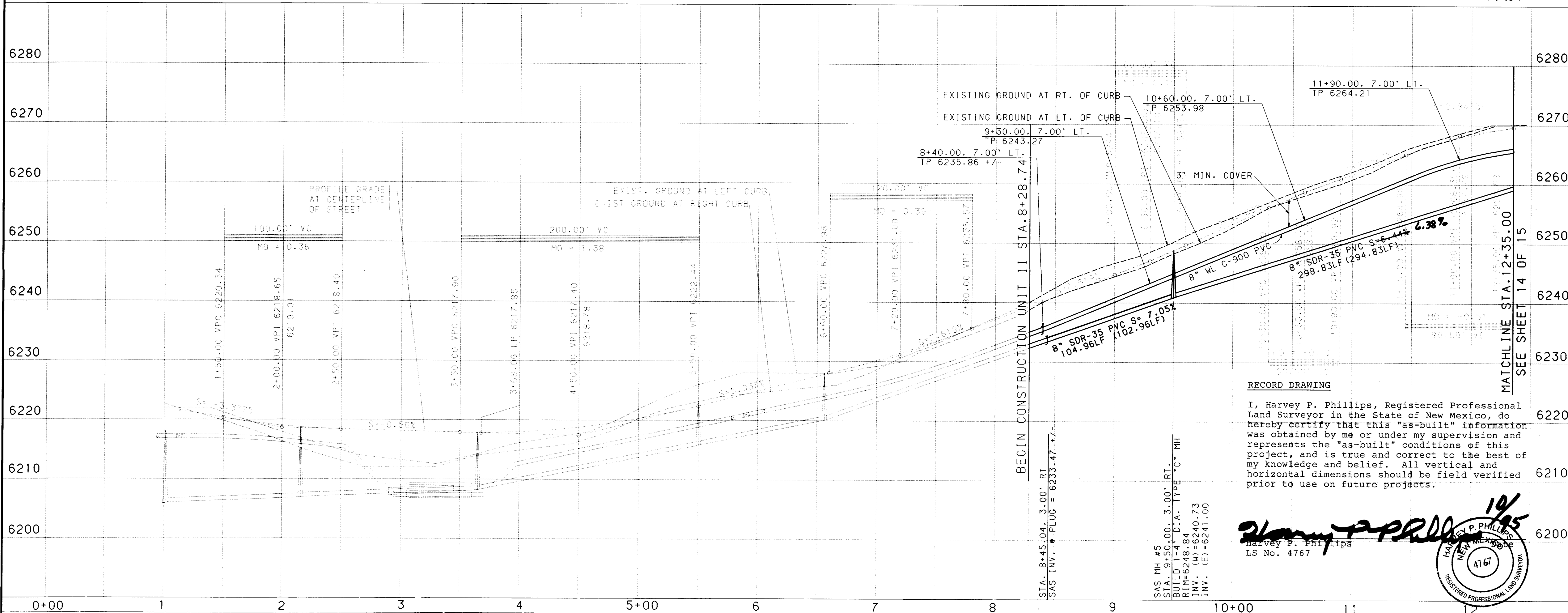
SAS CENTERLINE CURVE DATA					
NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C2	8+97.40	7°50'2.4"	52.36'	104.55'	764.70'
C3	10+99.68	22°23'2.4"	151.34'	298.83'	764.70'



WATER & SANITARY SEWER SERVICES					
LOT NUMBER	STATION & OFFSET	WL TYPE	STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG
52	9+01.71, 7.00' LT.	DOUBLE	EXISTING	---	---
53	9+01.71, 7.00' LT.	DOUBLE	9+15.00, 3.00' RT.	33.00'	40.13
77	11+48.32, 7.00' LT.	DOUBLE	11+60.00, 3.00' RT.	27.00'	55.96
78	9+97.00, 3.00' RT.	DOUBLE	9+97.00, 3.00' RT.	27.00'	45.50
79	EXISTING	DOUBLE	8+59.00, 3.00' RT.	27.05'	34.65
50	EXISTING	DOUBLE	EXISTING	---	---



APACHE PLUME PLACE



RECORD DRAWING

I, Harvey P. Phillips, Registered Professional Land Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Harvey P. Phillips
LS No. 4767

- NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ALL CURB RETURN RADIUS SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF RUNDOWN CURB UNLESS OTHERWISE SPECIFIED.
 5. CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
 6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
 7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
 8. CONTRACTOR SHALL PROVIDE THE INSPECTORS (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
 9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
 10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
 11. REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
 12. INSTALL ALL WATER LINES IN ACCORDANCE WITH COA STANDARD SPECS AND THE RESTRAINED JOINT TABLE BELOW.

MECHANICAL JOINTS		LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED (6") (8") (10") (16")			
11.25" H BEND	2'	3'	3'	5'	5'
22.50" H BEND	4'	5'	6'	10'	10'
45" H BEND	8'	11'	13'	21'	21'
90" H BEND	20'	26'	31'	50'	50'
GATE VALVE	55'	72'	86'	---	---
BUTTERFLY VALVE	---	---	---	108'	---
CAP	55'	72'	86'	108'	---

- NOTE:**
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 15 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 15 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
 3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
 4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING**

**THE HIGHLANDS AT HIGH DESERT UNIT-2
UTILITY PLAN & PROFILE
APACHE PLUME PL. STA 8+28.74 TO 12+35.00**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R.W. Kane	6-20-95	WATER	R.W. Kane	6-1-95
TRANSPORTATION	M.A. Carr	6-01-95	WASTE WATER	R.W. Kane	6-1-95
HYDROLOGY	JPC	6-12-95			

DRAWING NO. 5097.91 MAP NO. E-23 SHEET 13 OF 15

NUMBER	BEARING	DISTANCE
T1	S59°56'1.4"E	75.22'
T2	S59°56'1.4"E	171.21'
T3	S59°56'1.4"E	171.02'

NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C1	11+36.99	41°17'54.3"	291.95'	558.40'	774.70'
C2	15+33.26	36°17'58.4"	282.51'	545.55'	861.79'

NUMBER	BEARING	DISTANCE
T5	S76°12'13.5"E	151.61'
T6	S76°12'13.5"E	82.34'

NUMBER	PI STA.	DELTA	TANGENT	LENGTH	RADIUS
C3	11+01.34	22°23'23.2"	151.34'	298.83'	764.70'
C4	13+24.14	11°4'30.2"	74.14'	147.81'	764.70'
C5	16+91.47	7°45'33.4"	59.12'	118.06'	871.79'
C6	18+76.30	16°29'13.8"	126.30'	250.86'	871.79'
C7	21+01.39	13°16'3.1"	101.39'	200.69'	871.79'

- NOTES**
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
 4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF RUNDOWN CURB UNLESS OTHERWISE SPECIFIED.
 5. CONTRACTOR IS TO INSTALL A 4"x4"x5' POST AND END AT THE END OF EACH SANITARY SEWER SERVICE.
 6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
 7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
 8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
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 12. INSTALL ALL WATER LINES IN ACCORDANCE WITH COA STANDARD SPECS AND THE RESTRAINED JOINT TABLE BELOW.

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED (6") (8") (10") (16")			
	2'	3'	5'	10'
11.25" H BEND	2'	3'	5'	10'
22.50" H BEND	4'	5'	6'	10'
45" H BEND	8'	11'	13'	21'
90" H BEND	20'	26'	31'	50'
GATE VALVE	55'	72'	86'	---
BTRFLY VALVE	---	---	---	108'
CAP	55'	72'	86'	108'

- NOTE:**
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 15 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 15 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
 3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
 4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING**

**THE HIGHLANDS AT HIGH DESERT UNIT -2
UTILITY PLAN & PROFILE
APACHE PLUME PL. STA 12+35.00 TO 22+36.18**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>R.W. Kane</i>	6-1-95	WATER	<i>R.W. Kane</i>	6-1-95
TRANSPORTATION	<i>R.W. Kane</i>	6-1-95	WASTE WATER	<i>R.W. Kane</i>	6-1-95
HYDROLOGY	<i>R.W. Kane</i>	6-1-95			

DESIGNED BY: MPE/KGP
DRAWN BY: JAO/SV
CHECKED BY: JRT

DRAWING NO. 5097.91
MAP NO. E-23
SHEET 14 OF 15

