CONSTRUCTION PLANS FOR

UNIVERSE BLVD. STREET IMPROVEMENTS

(A PORTION OF UNIVERSE BLVD.)

ALBUQUERQUE, NEW MEXICO

INDEX

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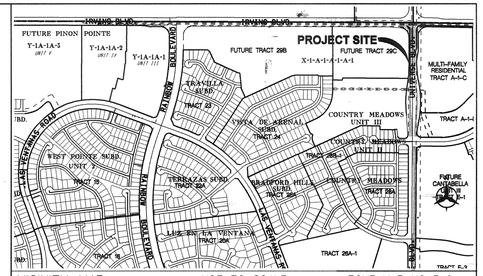

VICINITY MAP: NOT TO SCALE ZONE MAP NO. B-9

RECORD DRAWINGS

I, PATRICK CONLEY of the firm of SMITH ENG. CO A Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications, ~~while someone from Smith Engineering Company was onsite,~~ approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me on the as-built construction drawings. This Certification is based on site inspections by me or personnel under my direction and survey information provided by TIM ALDRICH (Surveyor Name) NMPS number 7719 (PS #).
(ALDRICH LAND SURVEYING)

Engineers Seal & Signature
PATRICK J. CONLEY NEW MEXICO 10141 REGISTERED PROFESSIONAL ENGINEER

10/02/03

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 11/5/03

NOTICE TO CONTRACTORS

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AND SHALL INCLUDE UPDATE No.6
2. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
3. 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.
4. 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 (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
5. ALL PERMANENT STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED W/ PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
6. 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.
7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
8. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS).
9. THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES. (898-2661) THREE WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. FOR STORM DRAIN CONSTRUCTION, RCP PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- [X] ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- [X] BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- [ ] TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE ENGINEER.
- [X] 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.
- [X] ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- [X] 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.

SURVEYOR'S CERTIFICATION

"I, Timothy Aldrich, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that the 'as-built' information shown on these drawings was obtained from field construction and 'as-built' surveys performed by me or under my supervision, that the 'as-built' information shown on these drawings was added by me or under my supervision, and that this 'as-built' information is true and correct to the best of my knowledge and belief." Aldrich Land Surveying is not responsible for any of the design concepts, calculations, engineering, or intent of the record drawings.

Timothy Aldrich, P.S. No. 7719 — 09-30-03 Date

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	* * * * * * * * * * * * * * *
KEVIN G. PATTON NEW MEXICO 13968 REGISTERED PROFESSIONAL ENGINEER 3-11-03	DRC Chairman		4-2-03	APPROVED FOR CONSTRUCTION
	Transportation		3/11/03	
	Water/Wastewater		3/11/03	
	Hydrology	Brady J. Patt	3/11/03	
	CIP			
	Const. Mngmt.			
	Const. Coord.		4-2-03	
	NMUI	N/A		
DRB Case Number 1001101 1001453	City Project No. 702381			Sheet 1 Of 19

HAB

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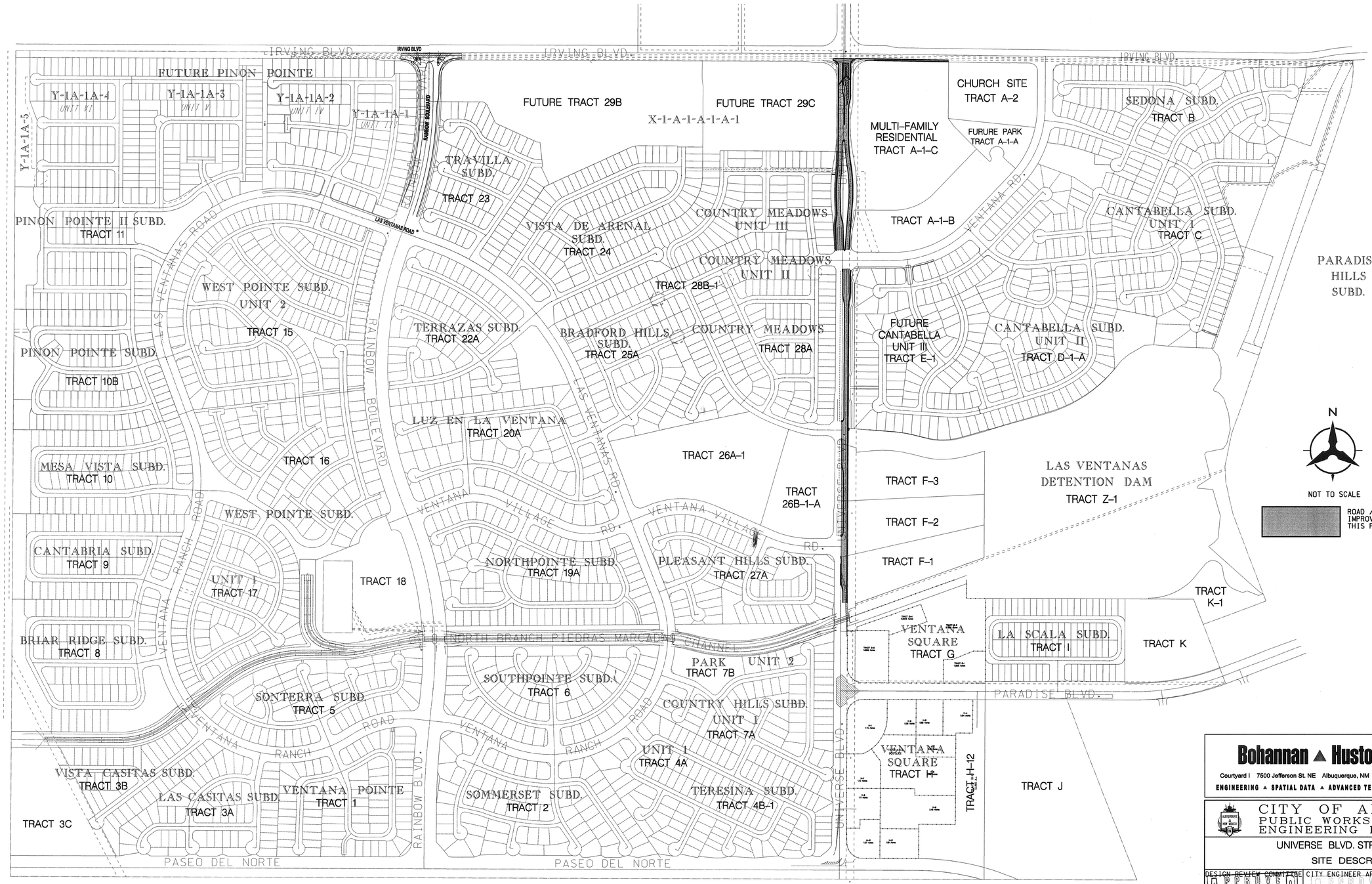

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS

SITE DESCRIPTION PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE	APPROVED APR 29 2003 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	2	19

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BHI JOB NO. 020169001

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10-MAR-2003
10:53

AS-BUILT INFORMATION

CONTRACTOR Sundance

WORK STAKED BY AIS DATE 2/03

WORK INSPECTED'S ACCEPTANCE BY JC DATE 2/03

FIELD LOCATION BY AIS/JBJ DATE 2/03

DRAWINGS CORRECTED BY AIS DATE 2/03

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "1-B9 1980"

GEOGRAPHIC POSITION (NAD 1927)

N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X=355,077.00 Y=1,529,056.93

GROUND-TO-GRID FACTOR = .99966334

DELTA ALPHA -00°16'47"

NGVD 1929 ELEVATION = 5450.51

ENGINEER'S SEAL

KEVIN G. PATTON NEW MEXICO 10985 REGISTERED PROFESSIONAL ENGINEER

3.11.03

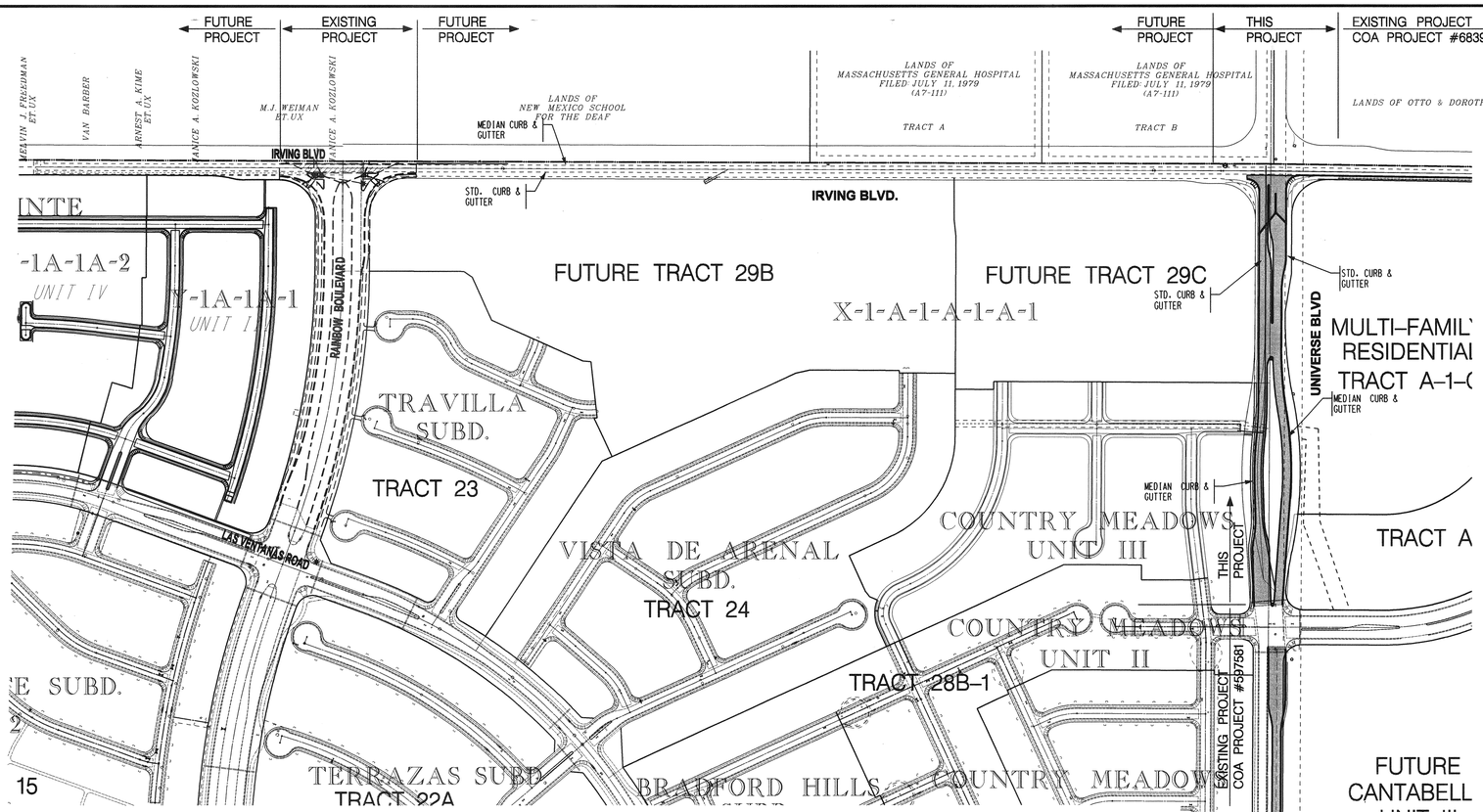
SURVEY INFORMATION

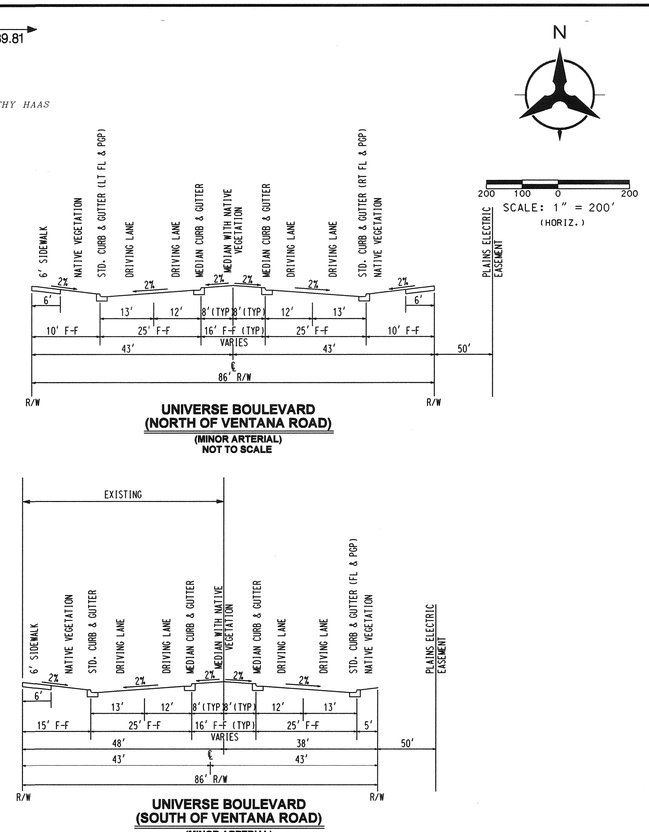
FIELD NOTES

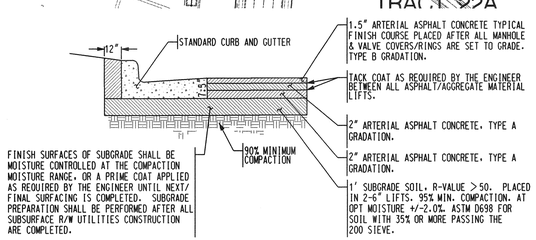
NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

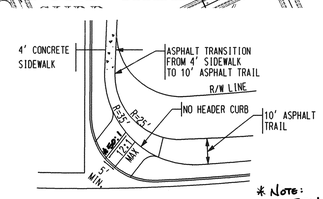
		DATE
DESIGNED BY	YOP	02/2002
DRAWN BY	DLM	02/2002
CHECKED BY	KGP	02/2002





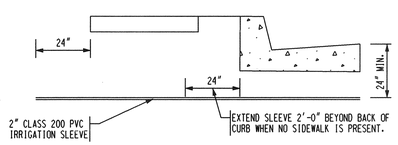


UNIVERSE BLVD. PAVEMENT SECTION B
MINOR ARTERIAL
DESIGNED WITH COA PROJECT # 5750.86
NOT TO SCALE

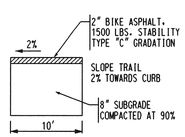


* Note: 50:1 AT UNIVERSE & IRVING

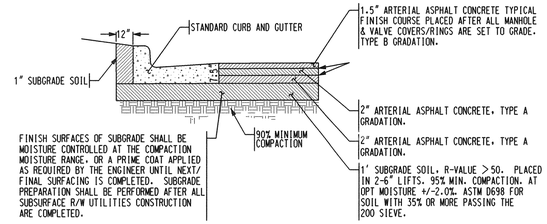
TRANSITION DETAIL FROM 4' SIDEWALK TO 10' ASPHALT TRAIL WHEEL CHAIR RAMP DETAIL B
NOT TO SCALE
(AS USED THROUGHTOUT VENTANA RANCH)



IRRIGATION SLEEVES UNDER PAVING AND SIDEWALKS
NOT TO SCALE



ASPHALT TRAIL
NOT TO SCALE



IRVING BLVD. PAVEMENT SECTION
(MINOR ARTERIAL)
NOT TO SCALE
(DESIGNED W/ COA PROJ. # 670981)

LEGEND

- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- FUTURE CURB AND GUTTER
- PROPOSED STORM DRAIN MANHOLE
- EXISTING STORM DRAIN MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE
- PROPOSED STREET LIGHT
- 6' SIDEWALK

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

AS-BUILT INFORMATION
CONTRACTOR Sundance
WORK STAKED BY ALS DATE 03
WORK INSPECTED BY ALS DATE 3/03
ACCEPTANCE BY DATE
FIELD VERIFICATION BY ALS DATE 3/03
DRAWINGS CORRECTED BY ALS DATE 3/03
RECORDED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X=355,077.00 Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
MICRO-FILM INFORMATION
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

SURVEY INFORMATION

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

FIELD NOTES

ENGINEER'S SEAL
KEVIN G. PATTON NEW MEXICO 12641 REGISTERED PROFESSIONAL ENGINEER
3-11-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	TSG	03/2002
DRAWN BY	BJG	03/2002
CHECKED BY	PLT	03/2002

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS
OVERALL PAVING PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	3	19

BHI JOB NO. 020169001

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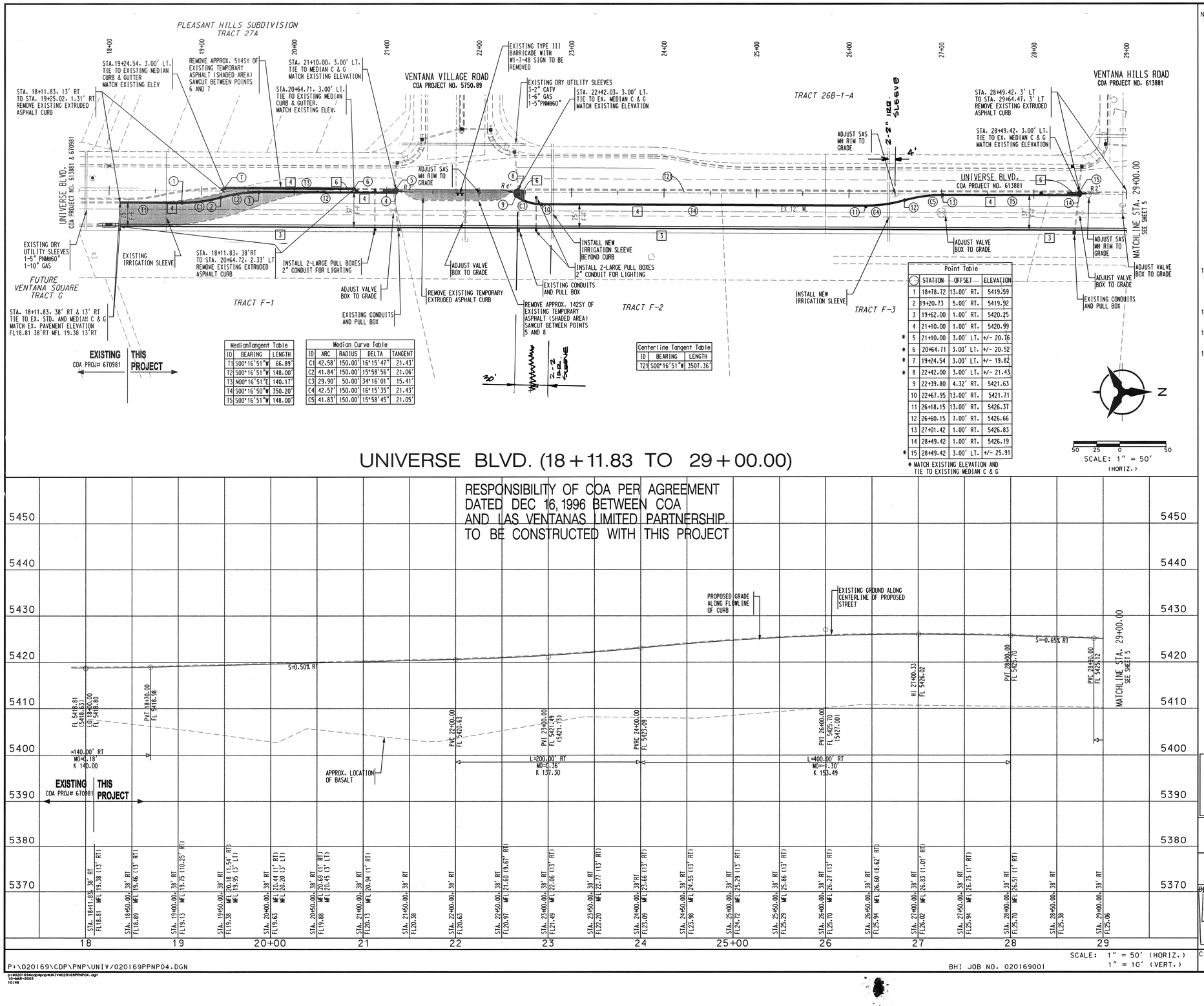

Point Table			
	STATION	OFFSET	ELEVATION
1	18+78.72	13.00' RT.	5419.59
2	19+20.73	5.00' RT.	5419.92
3	19+62.00	1.00' RT.	5420.25
4	21+10.00	1.00' RT.	5420.99
* 5	21+10.00	3.00' LT.	+/- 20.76
* 6	20+64.71	3.00' LT.	+/- 20.52
* 7	19+24.54	3.00' LT.	+/- 19.82
* 8	22+42.00	3.00' LT.	+/- 21.43
9	22+39.80	4.32' RT.	5421.63
10	22+67.95	13.00' RT.	5421.71
11	26+18.15	13.00' RT.	5426.37
12	26+60.15	7.00' RT.	5426.66
13	27+01.42	1.00' RT.	5426.83
14	28+49.42	1.00' RT.	5426.19
* 15	28+49.42	3.00' LT.	+/- 25.91

* MATCH EXISTING ELEVATION AND TIE TO EXISTING MEDIAN C & G

MedianTangent Table		
ID	BEARING	LENGTH
T1	S00°16'51"W	66.89'
T2	S00°16'51"W	148.00'
T3	N00°16'51"E	140.17'
T4	S00°16'50"W	350.20'
T5	S00°16'51"W	148.00'

Median Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C1	42.58'	150.00'	16°15'47"	21.43'
C2	41.84'	150.00'	15°58'56"	21.06'
C3	29.90'	50.00'	34°16'01"	15.41'
C4	42.57'	150.00'	16°15'35"	21.43'
C5	41.83'	150.00'	15°58'45"	21.05'

Centerline Tangent Table		
ID	BEARING	LENGTH
T21	S00°16'51"W	3507.36'

UNIVERSE BLVD. (18+11.83 TO 29+00.00)

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BHI JOB NO. 020169001

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' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" 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 & 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. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I
2. INSTALL WHEELCHAIR RAMP AS PER MODIFIED STD. DWG. 2441, CASE II WITH ALTERNATE SECTION AA AND AS PER DETAIL SHEET 3
3. STD. CURB AND GUTTER AS PER STD. DWG. 2415
4. MEDIAN CURB AND GUTTER AS PER STD. DWG. 2415
5. FUTURE CURB AND GUTTER
6. 10' BACK FROM FACE OF MEDIAN OR IF MEAN IS 4' OR LESS 15' MAX INSTALL 4" PORTLAND CEMENT PATTERNED CONCRETE BOMINITE AS PER STD. DWG. 2408. NOSE TO BE PAINTED REFLECTIVE YELLOW
7. 6' WIDE PCC SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
STAKED BY AIS DATE 02
INSPECTOR'S ACCEPTANCE BY SAU DATE 9/03
FIELD VERIFICATION BY AIS DATE 9/03
DRAWINGS CORRECTED BY AIS DATE 9/03

BENCH MARKS

ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) X=355,077.00
Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

MICRO-FILM INFORMATION

RECORDED BY DATE
NO. DATE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

ENGINEER'S SEAL

KENNETH G. PATTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 3.11.03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY YOP DATE 11/2001
DRAWN BY DLM DATE 11/2001
CHECKED BY KGP DATE 11/2001

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

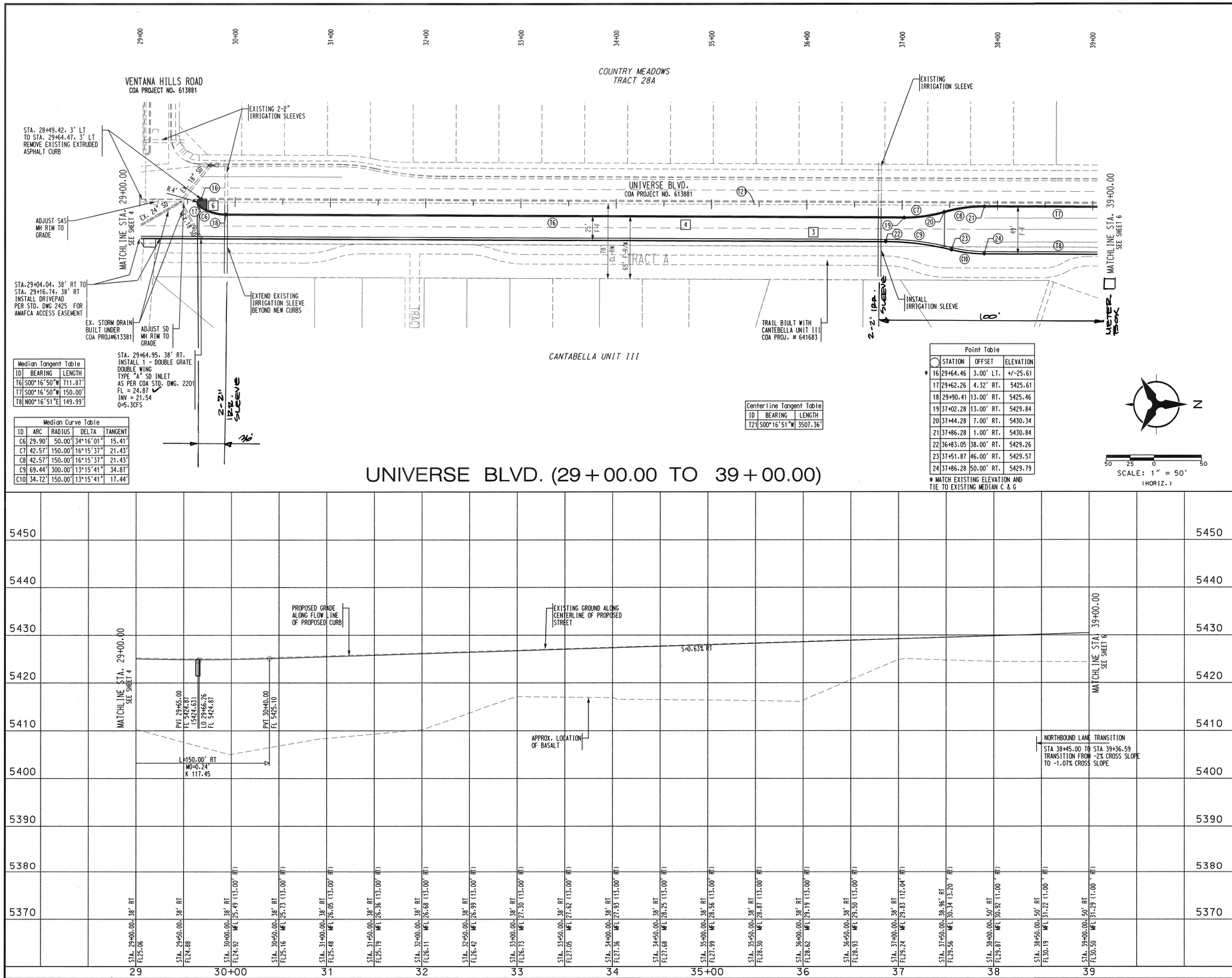
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS
PAVING PLAN & PROFILE
UNIVERSE BLVD. 18+11.83 TO 29+00.00

DESIGN REVIEW COMMITTEE APPROVAL: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	4	19

HAB



UNIVERSE BLVD. (29 + 00.00 TO 39 + 00.00)

Median Tangent Table		
ID	BEARING	LENGTH
T6	S00°16'50"W	711.87'
T7	S00°16'50"W	150.00'
T8	N00°16'51"E	149.99'

Median Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C6	29.90'	50.00'	34°16'01"	15.41'
C7	42.57'	150.00'	16°15'37"	21.43'
C8	42.57'	150.00'	16°15'37"	21.43'
C9	69.44'	300.00'	13°15'41"	34.87'
C10	34.72'	150.00'	13°15'41"	17.44'

Centerline Tangent Table		
ID	BEARING	LENGTH
T21	S00°16'51"W	3507.36'

Point Table			
	STATION	OFFSET	ELEVATION
* 16	29+64.46	3.00' LT.	+/-25.61
17	29+62.26	4.32' RT.	5425.61
18	29+90.41	13.00' RT.	5425.46
19	37+02.28	13.00' RT.	5429.84
20	37+44.28	7.00' RT.	5430.34
21	37+86.28	1.00' RT.	5430.84
22	36+83.05	38.00' RT.	5429.26
23	37+51.87	46.00' RT.	5429.57
24	37+86.28	50.00' RT.	5429.79

* MATCH EXISTING ELEVATION AND TIE TO EXISTING MEDIAN C & G

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' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" 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 & 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. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I
2. INSTALL WHEELCHAIR RAMP AS PER MODIFIED STD. DWG. 2441, CASE II WITH ALTERNATE SECTION AA AND AS PER DETAIL SHEET 3
3. STD. CURB AND GUTTER AS PER STD. DWG. 2415
4. MEDIAN CURB AND GUTTER AS PER STD. DWG. 2415
5. FUTURE CURB AND GUTTER
6. 10' BACK FROM FACE OF MEDIAN OR IF MEAN IS 4' OR LESS 15' MAX INSTALL 4" PORTLAND CEMENT PATTERNED CONCRETE BOMINITE AS PER STD. DWG. 2408. NOSE TO BE PAINTED REFLECTIVE YELLOW
7. 6' WIDE PCC SIDEWALK

AS-BUILT INFORMATION

CONTRACTOR	SUNDANCE	
STAKED BY	AIS	DATE 9/03
INSPECTOR'S ACCEPTANCE BY	SAC	DATE 9/03
FIELD VERIFICATION BY	AIS	DATE 9/03
DRAWINGS CORRECTED BY	AIS	DATE 9/03

BENCH MARKS

ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) X=355,077.00
Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

RECORDED BY
DATE
NO.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	BOHANNAN-HUSTON INC	8/95

ENGINEER'S SEAL

KENNETH G. PARTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 3-11-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	YOP	02/2003
DRAWN BY	DLM	02/2003
CHECKED BY	KGP	02/2003

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS
PAVING PLAN & PROFILE
UNIVERSE BLVD. 39 + 00.00 TO 49 + 00.00

DESIGN REVIEW COMMITTEE APPROVAL: APPROVED APR 7 2003
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	5	19

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BHI JOB NO. 020169001

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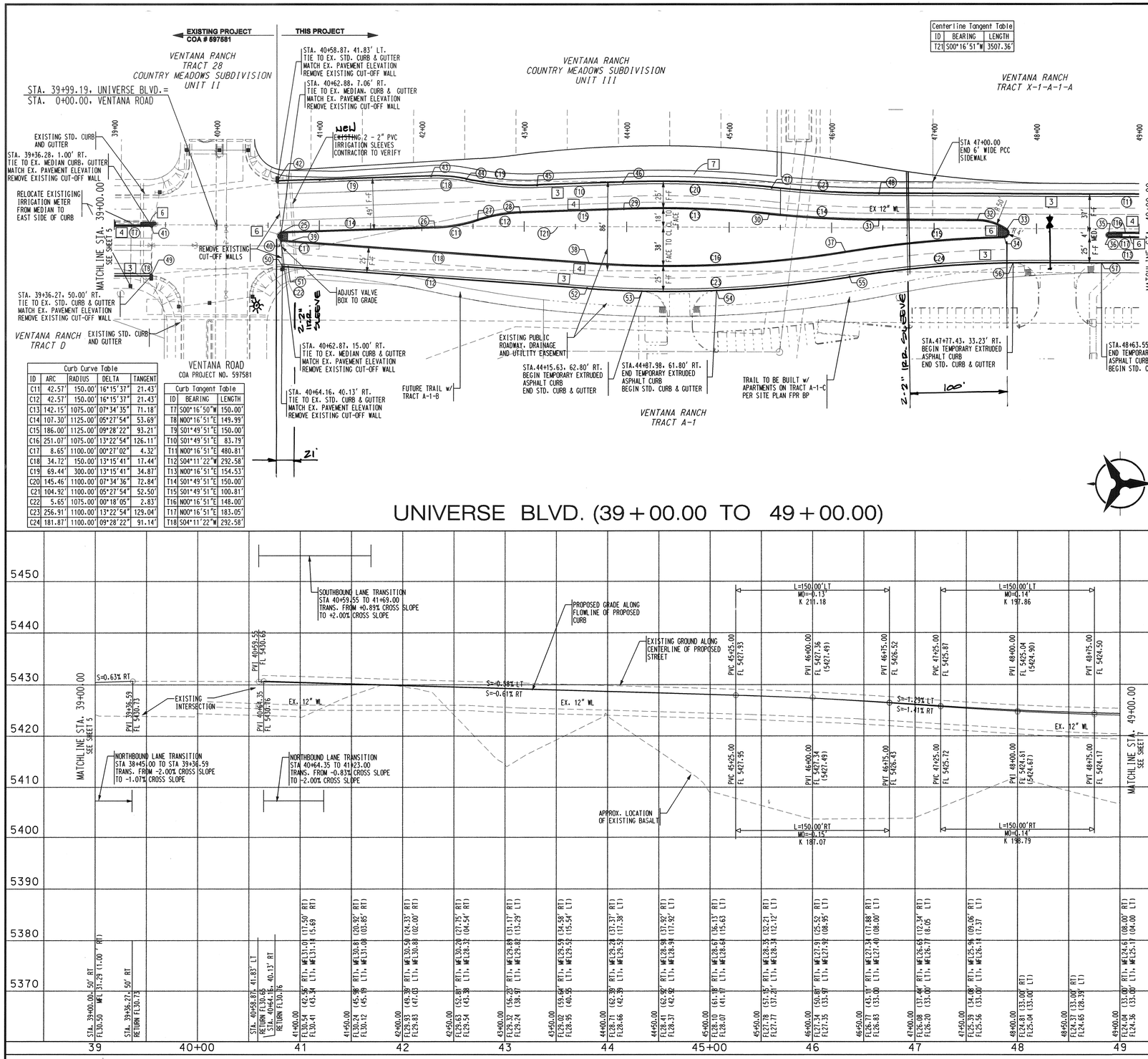

Centerline Tangent Table		
ID	BEARING	LENGTH
T21	S00°16'51"W	3507.36'

Point Table			
ID	STATION	OFFSET	ELEVATION
* 25	40+62.55	7.05' RT.	5431.19
26	42+12.77	1.53' RT.	5430.80
27	42+54.52	6.01' LT.	5430.32
28	42+96.27	13.56' LT.	5429.85
29	43+97.02	17.27' LT.	5429.25
30	45+39.01	13.11' LT.	5428.41
31	46+46.15	8.00' LT.	5427.44
32	47+42.10	8.00' LT.	5426.23
33	47+70.91	1.13' RT.	5426.08
34	47+68.71	8.40' RT.	5425.73
35	48+70.55	4.00' RT.	5425.33
36	48+70.55	8.00' RT.	5424.77
37	46+13.61	23.34' RT.	5427.77
38	43+63.40	35.50' RT.	5429.50
39	40+71.50	15.55' RT.	5431.06
* 40	40+62.87	15.00' RT.	5431.07
* 41	39+36.28	1.00' RT.	5431.35
* 42	40+58.87	41.83' LT.	5430.65
43	42+08.77	47.35' LT.	5429.78
44	42+43.30	44.63' LT.	5429.58
45	43+12.37	39.17' LT.	5429.17
46	43+96.10	42.25' LT.	5428.68
47	45+41.39	38.00' LT.	5427.83
48	46+46.15	33.00' LT.	5426.87
* 49	39+36.27	50.00' RT.	5430.73
* 50	40+64.16	40.13' RT.	5430.76
51	40+69.80	40.50' RT.	5430.73
52	43+61.70	60.44' RT.	5428.94
53	44+15.63	62.80' RT	5028.62
54	44+87.98	61.80' RT.	5028.17
55	46+17.72	48.00' RT.	5427.15
56	47+77.43	33.23' RT.	5425.06
57	48+63.55	33.00' RT.	5424.25

* MATCH EXISTING ELEVATION AND TIE TO EXISTING CURB & GUTTER

Curb Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C11	42.57'	150.00'	16°15'37"	21.43'
C12	42.57'	150.00'	16°15'37"	21.43'
C13	142.15'	1075.00'	07°34'35"	71.18'
C14	107.30'	1125.00'	05°27'54"	53.69'
C15	186.00'	1125.00'	09°28'22"	93.21'
C16	251.07'	1075.00'	13°22'54"	126.11'
C17	8.65'	1100.00'	00°27'02"	4.32'
C18	34.72'	150.00'	13°15'41"	17.44'
C19	69.44'	300.00'	13°15'41"	34.87'
C20	145.46'	1100.00'	07°34'36"	72.84'
C21	104.92'	1100.00'	05°27'54"	52.50'
C22	5.65'	1075.00'	00°18'05"	2.83'
C23	256.91'	1100.00'	13°22'54"	129.04'
C24	181.87'	1100.00'	09°28'22"	91.14'

Curb Tangent Table		
ID	BEARING	LENGTH
T7	S00°16'50"W	150.00'
T8	N00°16'51"E	149.99'
T9	S01°49'51"E	150.00'
T10	S01°49'51"E	83.79'
T11	N00°16'51"E	480.81'
T12	S04°11'22"W	292.58'
T13	N00°16'51"E	154.53'
T14	S01°49'51"E	150.00'
T15	S01°49'51"E	100.81'
T16	N00°16'51"E	148.00'
T17	N00°16'51"E	183.05'
T18	S04°11'22"W	292.58'

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' UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE ALONG FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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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13. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED GENERAL NOTES

1. INSTALL WHEELCHAIR RAMP AS PER STD. DWG. 2441, CASE I
2. INSTALL WHEELCHAIR RAMP AS PER MODIFIED STD. DWG. 2441, CASE II WITH ALTERNATE SECTION AA AND AS PER DETAIL SHEET 3
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7. 6' WIDE PCC SIDEWALK

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
MARKED BY AIS DATE 9/03
INSPECTOR'S ACCEPTANCE BY SGL DATE 9/03
FIELD LOCATION BY AIS DATE 9/03
VERIFICATION BY AIS DATE 9/03
CORRECTED BY AIS
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE) X=355,077.00 Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

FIELD NOTES

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

ENGINEER'S SEAL
KENT A. PATTON NEW MEXICO 13986 REGISTERED PROFESSIONAL ENGINEER
3-11-03

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

		DATE
DESIGNED BY	YOP	02/2002
DRAWN BY	DLM	02/2002
CHECKED BY	KGP	02/2002

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS
PAVING PLAN & PROFILE
UNIVERSE BLVD. 39+00.00 TO 49+00.00

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

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

BHI JOB NO. 020169001

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 6 OF 19

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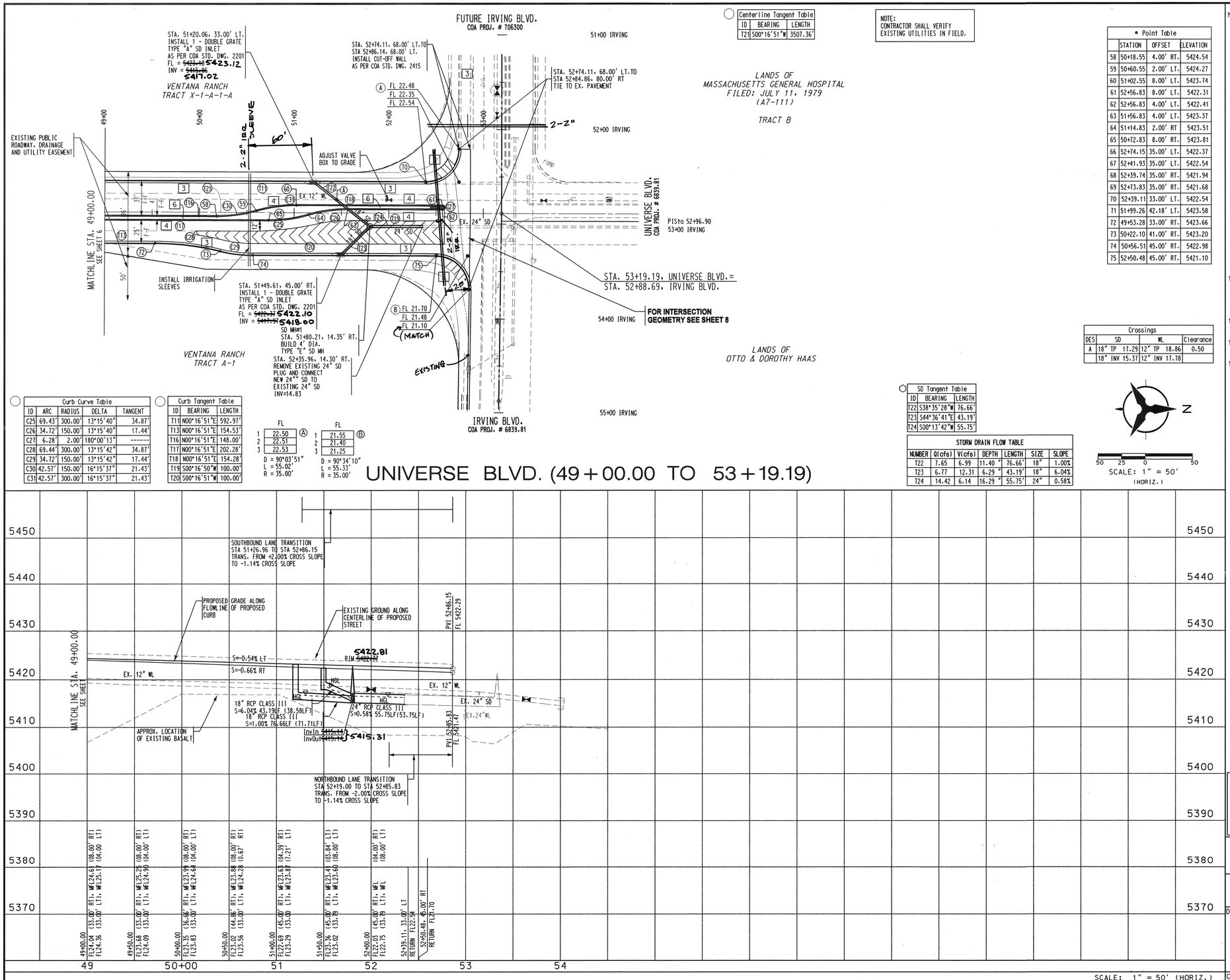

Centerline Tangent Table		
ID	BEARING	LENGTH
T21	S00°16'51"W	3507.36'

NOTE:
CONTRACTOR SHALL VERIFY
EXISTING UTILITIES IN FIELD.

• Point Table			
	STATION	OFFSET	ELEVATION
58	50+18.55	4.00' RT.	5424.54
59	50+60.55	2.00' LT.	5424.27
60	51+02.55	8.00' LT.	5423.74
61	52+56.83	8.00' LT.	5422.31
62	52+56.83	4.00' LT.	5422.41
63	51+56.83	4.00' LT.	5423.37
64	51+14.83	2.00' RT	5423.51
65	50+72.83	8.00' RT	5423.81
66	52+74.15	35.00' LT.	5422.37
67	52+41.93	35.00' LT.	5422.54
68	52+39.74	35.00' RT.	5421.94
69	52+73.83	35.00' RT.	5421.68
70	52+39.11	33.00' LT.	5422.54
71	51+99.26	42.18' LT.	5423.58
72	49+53.28	33.00' RT.	5423.66
73	50+22.10	41.00' RT.	5423.20
74	50+56.51	45.00' RT.	5422.98
75	52+50.48	45.00' RT.	5421.10

Crossings			
DES	SD	WL	Clearance
A	18" TP 17.29	12" TP 18.86	0.50
	18" INV 15.37	12" INV 17.78	

Curb Curve Table				
ID	ARC	RADIUS	DELTA	TANGENT
C25	69.43'	300.00'	13°15'40"	34.87'
C26	34.72'	150.00'	13°15'40"	17.44'
C27	6.28'	2.00'	180°00'13"	------
C28	69.44'	300.00'	13°15'42"	34.87'
C29	34.72'	150.00'	13°15'42"	17.44'
C30	42.57'	150.00'	16°15'37"	21.43'
C31	42.57'	300.00'	16°15'37"	21.43'

Curb Tangent Table		
ID	BEARING	LENGTH
T11	N00°16'51"E	592.97'
T13	N00°16'51"E	154.53'
T16	N00°16'51"E	148.00'
T17	N00°16'51"E	202.28'
T18	N00°16'51"E	154.28'
T19	S00°16'50"W	100.00'
T20	S00°16'51"W	100.00'

	FL (A)	FL (B)
1	22.50	21.55
2	22.51	21.40
3	22.53	21.25
	D = 90°03'51"	D = 90°34'10"
	L = 55.02'	L = 55.33'
	R = 35.00'	R = 35.00'

SD Tangent Table		
ID	BEARING	LENGTH
T22	S38°35'28"W	76.66'
T23	S44°36'41"E	43.19'
T24	S00°13'42"W	55.75'

STORM DRAIN FLOW TABLE						
NUMBER	Q(cfs)	V(cfs)	DEPTH	LENGTH	SIZE	SLOPE
T22	7.65	6.99	11.40 "	76.66'	18"	1.00%
T23	6.77	12.31	6.29 "	43.19'	18"	6.04%
T24	14.42	6.14	16.29 "	55.75'	24"	0.58%

N

50 25 0 50

SCALE: 1" = 50'
(HORIZ.)

NOTES

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KEYED GENERAL NOTES

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7. 6' WIDE PCC SIDEWALK

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
STAKED BY AIS DATE 8/03
INSPECTOR'S ACCEPTANCE BY SEC DATE 8/03
FIELD VERIFICATION BY AIS DATE 8/03
DRAWINGS CORRECTED BY AIS DATE 8/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) X=355,077.00
Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

ENGINEER'S SEAL

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

SURVEY INFORMATION
FIELD NOTES

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN

DESIGNED BY	YOP	DATE 02/2003
DRAWN BY	DLM	DATE 02/2003
CHECKED BY	KGP	DATE 02/2003

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
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UNIVERSE BLVD. STREET IMPROVEMENTS
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UNIVERSE BLVD. 49+00.00 to 53+19.19

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	7	19

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

BHI JOB NO. 020169001

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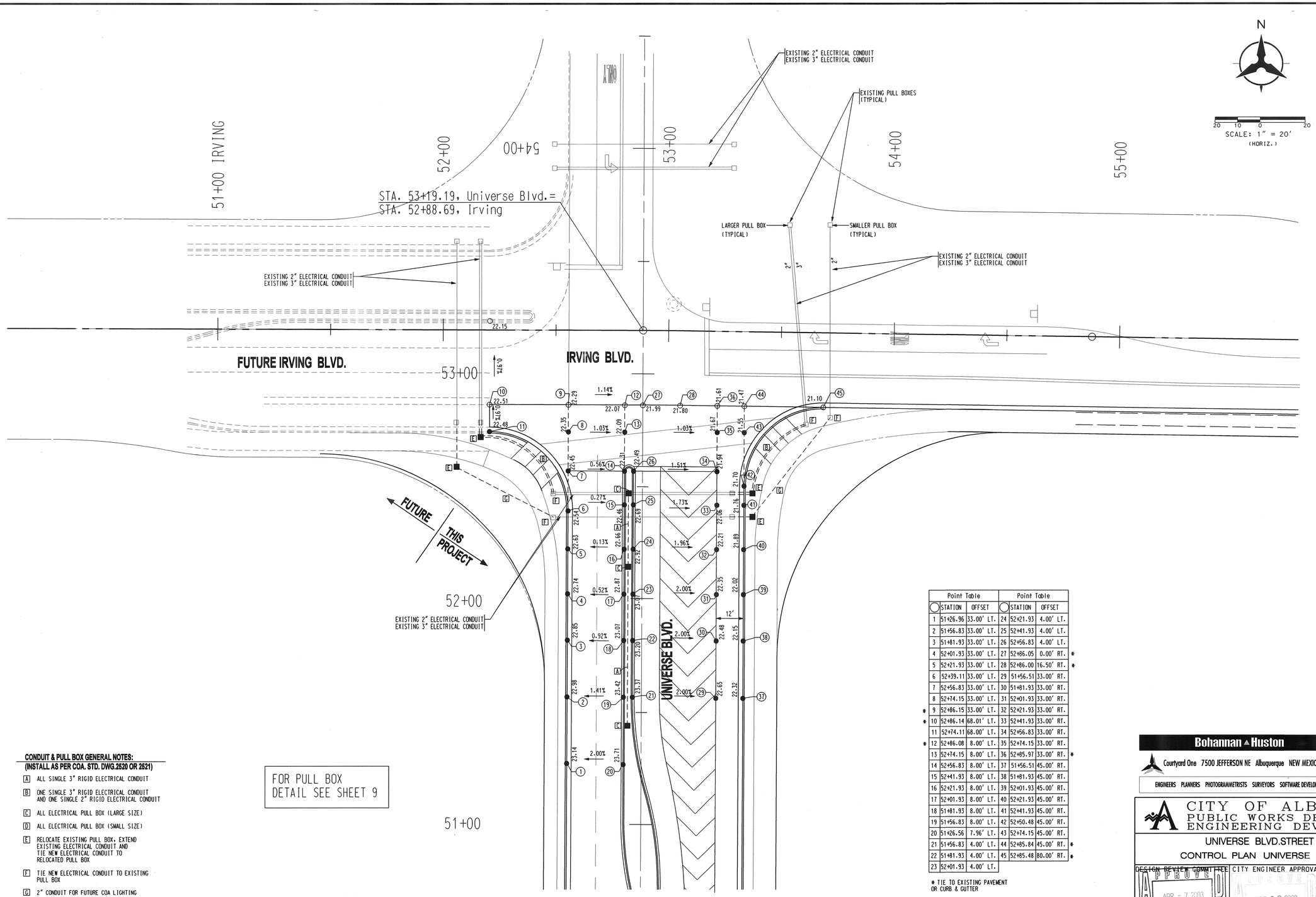

	Point Table			Point Table	
	STATION	OFFSET		STATION	OFFSET
1	51+26.96	33.00' LT.	24	52+21.93	4.00' LT.
2	51+56.83	33.00' LT.	25	52+41.93	4.00' LT.
3	51+81.93	33.00' LT.	26	52+56.83	4.00' LT.
4	52+01.93	33.00' LT.	27	52+86.05	0.00' RT. *
5	52+21.93	33.00' LT.	28	52+86.00	16.50' RT. *
6	52+39.11	33.00' LT.	29	51+56.51	33.00' RT.
7	52+56.83	33.00' LT.	30	51+81.93	33.00' RT.
8	52+74.15	33.00' LT.	31	52+01.93	33.00' RT.
* 9	52+86.15	33.00' LT.	32	52+21.93	33.00' RT.
* 10	52+86.14	68.01' LT.	33	52+41.93	33.00' RT.
11	52+74.11	68.00' LT.	34	52+56.83	33.00' RT.
* 12	52+86.08	8.00' LT.	35	52+74.15	33.00' RT.
13	52+74.15	8.00' LT.	36	52+85.97	33.00' RT. *
14	52+56.83	8.00' LT.	37	51+56.51	45.00' RT.
15	52+41.93	8.00' LT.	38	51+81.93	45.00' RT.
16	52+21.93	8.00' LT.	39	52+01.93	45.00' RT.
17	52+01.93	8.00' LT.	40	52+21.93	45.00' RT.
18	51+81.93	8.00' LT.	41	52+41.93	45.00' RT.
19	51+56.83	8.00' LT.	42	52+50.48	45.00' RT.
20	51+26.56	7.96' LT.	43	52+74.15	45.00' RT.
21	51+56.83	4.00' LT.	44	52+85.84	45.00' RT. *
22	51+81.93	4.00' LT.	45	52+85.48	80.00' RT. *
23	52+01.93	4.00' LT.			

* TIE TO EXISTING PAVEMENT OR CURB & GUTTER

CONDUIT & PULL BOX GENERAL NOTES:
(INSTALL AS PER COA. STD. DWG.2520 OR 2521)

- [A] ALL SINGLE 3" RIGID ELECTRICAL CONDUIT
- [B] ONE SINGLE 3" RIGID ELECTRICAL CONDUIT AND ONE SINGLE 2" RIGID ELECTRICAL CONDUIT
- [C] ALL ELECTRICAL PULL BOX (LARGE SIZE)
- [D] ALL ELECTRICAL PULL BOX (SMALL SIZE)
- [E] RELOCATE EXISTING PULL BOX. EXTEND EXISTING ELECTRICAL CONDUIT AND TIE NEW ELECTRICAL CONDUIT TO RELOCATED PULL BOX
- [F] TIE NEW ELECTRICAL CONDUIT TO EXISTING PULL BOX
- [G] 2" CONDUIT FOR FUTURE COA LIGHTING
- [H] PROVIDE 3" RIGID CONDUIT STUB-OUT (5') AND CAP FOR FUTURE

FOR PULL BOX DETAIL SEE SHEET 9

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE
STAKED BY AIS DATE 9/03
INSPECTOR'S ACCEPTANCE BY EBC DATE 9/03
FIELD VERIFICATION BY AIS DATE 9/03
DRAWINGS CORRECTED BY AIS DATE 9/03

BENCH MARKS
ACS BRASS TABLET STAMPED"1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) X=355,077.00
Y=1,529,056.93
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DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

ENGINEER'S SEAL
REGISTERED PROFESSIONAL ENGINEER
STEVEN G. PATTON
NEW MEXICO
8466
3-11-03

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY YOP DATE 03/2002
DRAWN BY DLM DATE 03/2002
CHECKED BY KGP DATE 03/2002

Bohannan ▲ Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD.STREET IMPROVEMENTS
CONTROL PLAN UNIVERSE BLVD./IRVING BLVD.

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 8 OF 19

BHI JOB NO. 020169001

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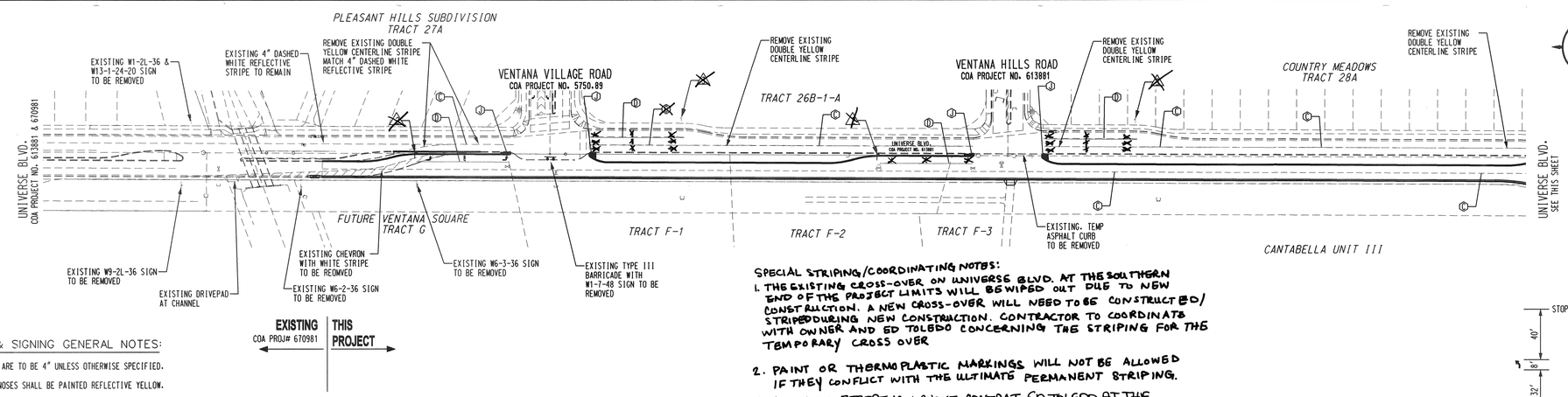
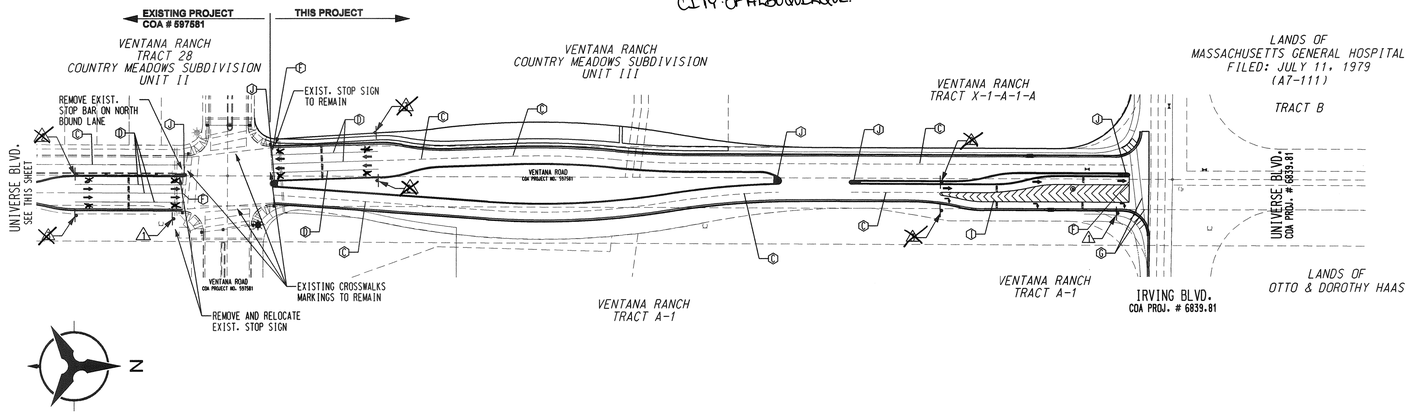
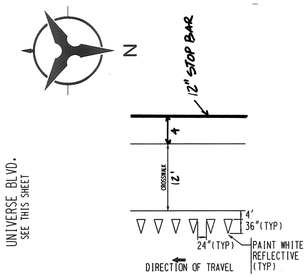


SPECIAL STRIPING/COORDINATING NOTES:

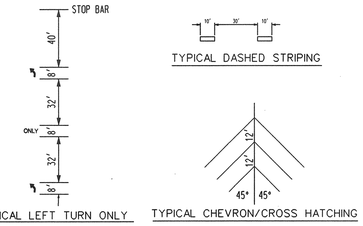
1. THE EXISTING CROSS-OVER ON UNIVERSE BLVD. AT THE SOUTHERN END OF THE PROJECT LIMITS WILL BE WIPED OUT DUE TO NEW CONSTRUCTION. A NEW CROSS-OVER WILL NEED TO BE CONSTRUCTED/STRIPED DURING NEW CONSTRUCTION. CONTRACTOR TO COORDINATE WITH OWNER AND ED TOLEDO CONCERNING THE STRIPING FOR THE TEMPORARY CROSS OVER
2. PAINT OR THERMOPLASTIC MARKINGS WILL NOT BE ALLOWED IF THEY CONFLICT WITH THE ULTIMATE PERMANENT STRIPING.
3. PRIOR TO STRIPING LAYOUT CONTACT ED TOLEDO AT THE CITY OF ALBUQUERQUE.





YEILD LINE STRIPING FOR CHANNALIZED RIGHT TURN

NTS



TYPICAL DASHED STRIPING

TYPICAL LEFT TURN ONLY

TYPICAL CHEVRON/CROSS HATCHING

TYPICAL STRIPING DETAILS

STRIPING & SIGNING GENERAL NOTES:

1. ALL STRIPES ARE TO BE 4" UNLESS OTHERWISE SPECIFIED.
2. ALL MEDIAN NOSES SHALL BE PAINTED REFLECTIVE YELLOW.
3. EACH SIGN FACE SHOWN ON THE PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARED HIGHWAY SIGNS MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
4. ALL SIGNS SHALL BE ALUMINUM.
5. POST LENGTHS AND SECTIONS ARE BASED ON 7'-0" CLEARANCE HEIGHT FROM THE TOP OF SIDEWALK TO THE BOTTOM OF THE SIGN. FINAL POST LENGTHS AND SECTIONS ARE TO BE DETERMINED IN THE FIELD.
6. PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SUPPLEMENTAL TECHNICAL SPECIFICATION SECTION 440 FOR THE REFLECTORIZED PLASTIC PAVEMENT SYMBOLS, LEGENDS, STRIPES, AND MARKINGS. PREFORMED
7. FOR EXACT LOCATION OF SIGNING, CONTACT ED TOLEDO AT 857-8004.

GENERAL STRIPING & SIGNING LEGEND

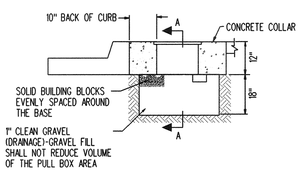
- REFLECTORIZED LEFT TURN ARROW (PREFORMED PLASTIC)
- REFLECTORIZED RIGHT TURN ARROW (PREFORMED PLASTIC)
- REFLECTORIZED STRAIGHT ARROW (PREFORMED PLASTIC)
- ONLY REFLECTORIZED "ONLY"
- EXISTING SIGN
- PROPOSED SIGN
- EXISTING TYPE III BARRICADE
- PROPOSED STREET LIGHT
- EXISTING STREET LIGHT

STRIPING LEGEND

- (A) 4" SOLID YELLOW REFLECTIVE STRIPE
- (B) 4" DOUBLE SOLID YELLOW REFLECTIVE STRIPE
- (C) 4" DASHED WHITE REFLECTIVE STRIPE (10' STRIPE, 30' SKIP)
- (D) 4" SOLID WHITE REFLECTIVE STRIPE
- (E) 4" DASHED YELLOW REFLECTIVE STRIPE (10' STRIPE, 30' SKIP)
- (F) 12" 24" SOLID WHITE REFLECTIVE STOP BAR STRIPE
- (G) 12" SOLID WHITE REFLECTIVE CROSSWALK STRIPE
- (H) REMOVE 4" DOUBLE YELLOW & REPLACE WITH 4" DASHED REFLECTIVE PLASTIC STRIPE (10' STRIPE, 30' GAP)
- (I) INSTALL CHEVRONS AT 10' SPACING, 45° ANGLE OF 4" WHITE REFLECTIVE PLASTIC. (SEE DETAIL THIS SHEET)
- (J) NOSE TO BE PAINTED REFLECTIVE YELLOW

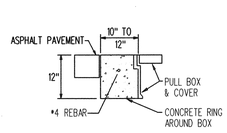
CONDUIT & PULL BOX GENERAL NOTES:
(INSTALL AS PER COA. STD. DWG.2520 OR 2521)

- [A] ALL SINGLE 3" RIGID ELECTRICAL CONDUIT
- [B] ALL DOUBLE 3" RIGID ELECTRICAL CONDUIT
- [C] ALL ELECTRICAL PULL BOX (LARGE SIZE)
- [D] PROVIDE 3" RIGID CONDUIT STUB-OUT (5') AND CAP FOR FUTURE
- [E] CAP RIGID CONDUIT FOR FUTURE JUST BEYOND NEW PAVEMENT LIMITS
- [F] 2" CONDUIT FOR FUTURE LIGHTING

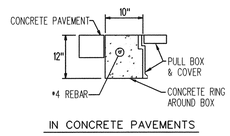


TYPICAL PULL BOX INSTALLATION

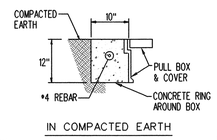
NOTE: SEE "CONCRETE COLLAR DETAIL"



IN ASPHALT PAVEMENTS



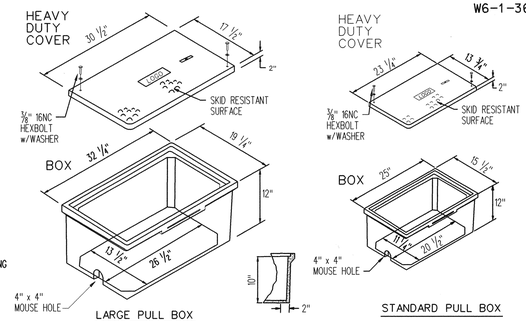
IN CONCRETE PAVEMENTS



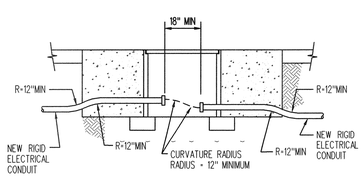
IN COMPACTED EARTH

CONCRETE COLLAR DETAILS

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEMS

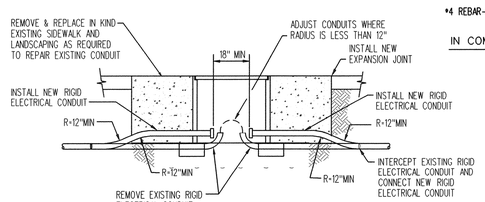


PULL BOX DETAILS



TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION

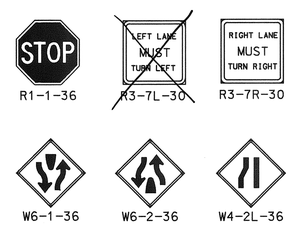


TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES:
   COMPRESSIVE STRENGTH - 11,000 PSI, TENSILE STRENGTH - 1,700 PSI, FLEXURAL STRENGTH - 7,500 PSI
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" x 23 1/4" x 2".



SIGNAGE KEYED NOTES:

1. INSTALL R1-1-36.
2. INSTALL R3-7L-30.
3. INSTALL R3-7R-30.
4. INSTALL W6-1-36.
5. INSTALL W6-2-36.
6. INSTALL W4-2L-36.

* NOTE: X INDICATES NOT USED THIS PROJECT

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

AS-BUILT INFORMATION

CONTRACTOR	SUNDANCE	
STAKED BY	AIS	DATE 9/03
INSPECTOR'S ACCEPTANCE BY	SAC	DATE 9/03
FIELD VERIFICATION BY	AIS	DATE 9/03
DRAWINGS CORRECTED BY	AIS	DATE 9/03

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BRASS TABLET STAMPED "1-B9 1980"
GEOGRAPHIC POSITION (NAD 1927)
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) X=355,077.00
Y=1,529,056.93
GROUND-TO-GRID FACTOR = .99966334
DELTA ALPHA -00°16'47"
NGVD 1929 ELEVATION = 5450.51

FIELD NOTES

NO.	BY	DATE
1	BOHANNAN-HUSTON INC.	8/95

ENGINEER'S SEAL

KEVIN G. PATTON NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
3-11-03

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY	YGP	DATE 01/2003
DRAWN BY	DLM	DATE 01/2003
CHECKED BY	KGP	DATE 01/2003

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. STREET IMPROVEMENTS

STRIPING, SIGNING, INTERCONNECT AND PULL BOX DETAILS

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 9 OF 19

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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

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

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

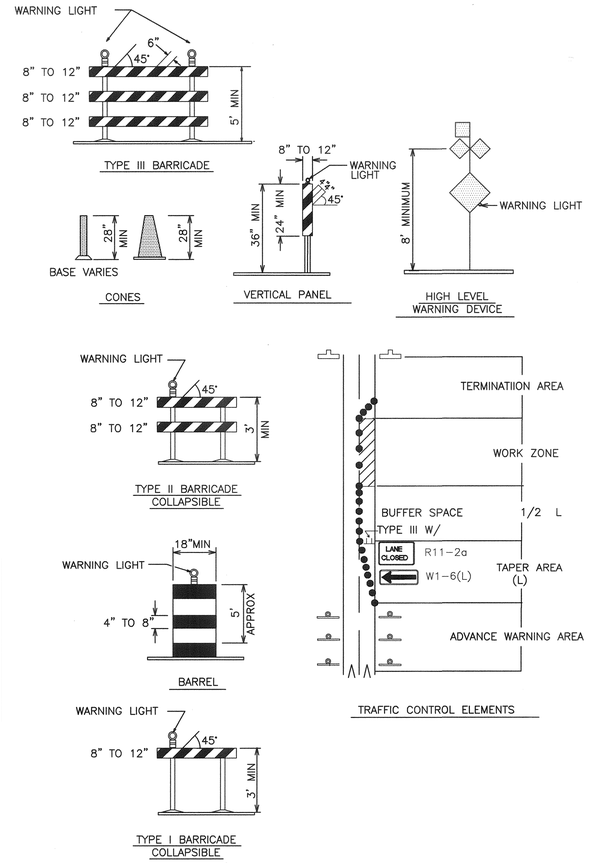
25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

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

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

SPECIAL NOTES

1. TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON UNIVERSE BLVD. BETWEEN PARADISE BLVD. AND VENTANA RD.
2. BARRICADING OF EXISTING LANES ON UNIVERSE BLVD. IS SUBJECT TO ARTERIAL/ COLLECTOR ROAD USAGE FEES OF $0.01 PER SQUARE FOOT OF BARRICADED AREA PER DAY.
3. MINIMUM DAILY BARRICADE PERMIT FEES OF $21.00 PER DAY WILL BE ASSESSED ON THE BARRICADE PERMIT WHILE BARRICADES ARE PRESENT ALONG UNIVERSE BLVD.
4. CONTRACTOR SHALL ERADICATE ALL CONFLICTING STRIPING DURING CONSTRUCTION, AND FOLLOWING COMPLETION OF THIS PROJECT.



LEGEND

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

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0–20	10 X SPEED LIMIT	10 X SPEED LIMIT
25–30	10 X SPEED LIMIT	10 X SPEED LIMIT
30–35	10 X SPEED LIMIT	10 X SPEED LIMIT
40–45	10 X SPEED LIMIT	10 X SPEED LIMIT
50–60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

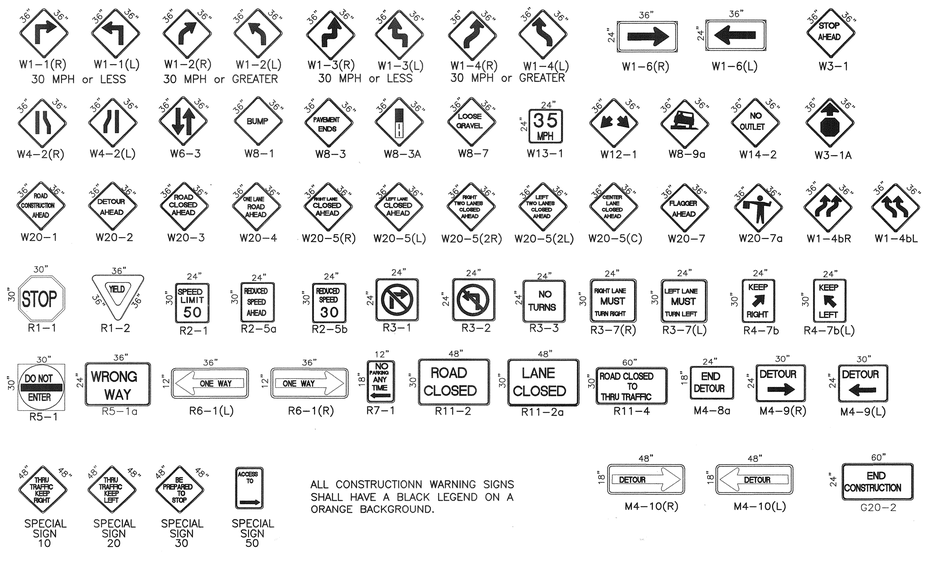
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$

L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS



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

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE DATE
WORK STAKED BY DATE 03
INSPECTOR ACCEPTANCE BY AIS DATE 4/08
FIELD VERIFICATION BY DATE 9/03
DRAWINGS CORRECTED BY AIS DATE 9/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
COA STD

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: COA DATE: 12/02
Drawn By: COA DATE: 12/02
Checked By: COA DATE: 12/02

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

UNIVERSE BLVD. STREET IMPROVEMENTS
SIGNING & CONSTRUCTION
TRAFFIC CONTROL STANDARDS

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

City Project No. 702381 | Zone Map No. B-9 | Sheet 10 Of 19

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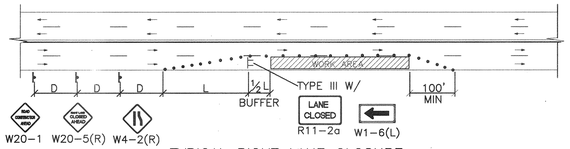
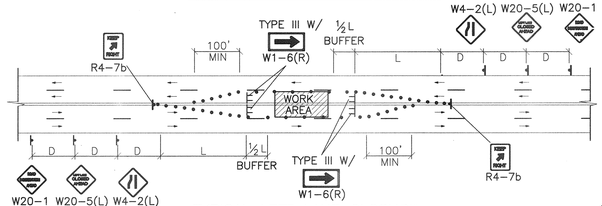
Mar 17, 2003 - 10:47am

BHI JOB #020169001

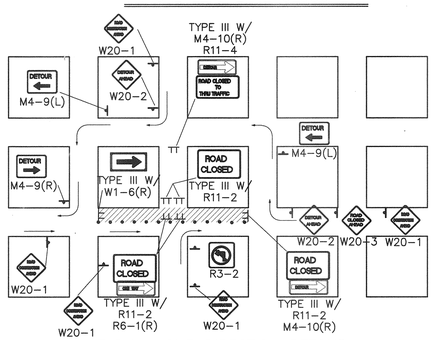
DATE: DECEMBER, 2002



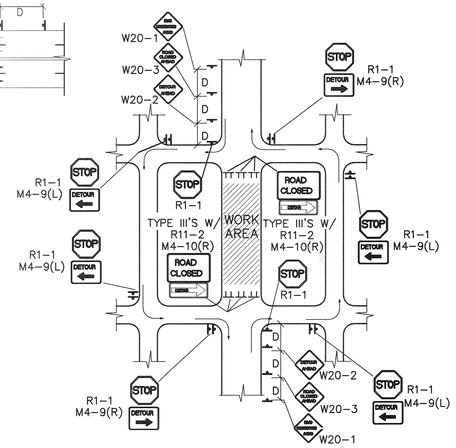
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



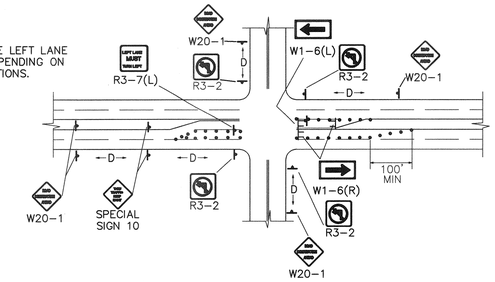
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

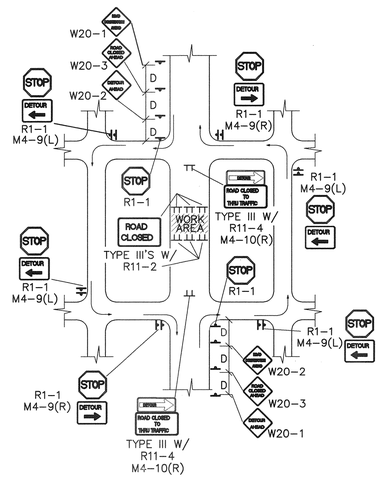
NOTE: (R1–1) BASED ON FIELD CONDITIONS.

NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



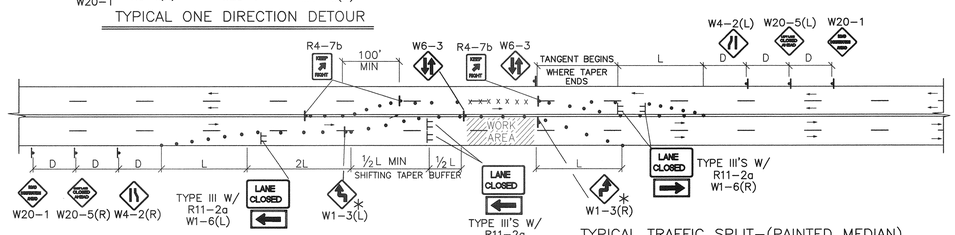
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.

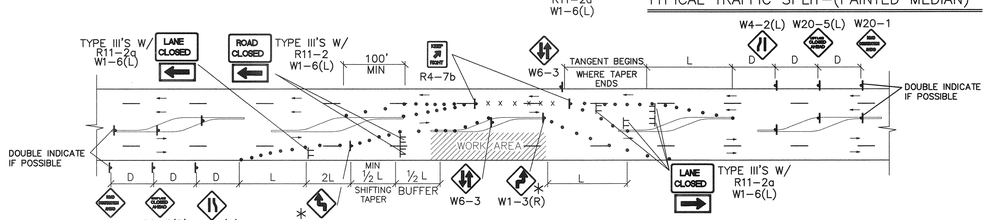


TYPICAL MID-BLOCK CLOSURE

NOTE: (R1–1) BASED ON FIELD CONDITIONS.



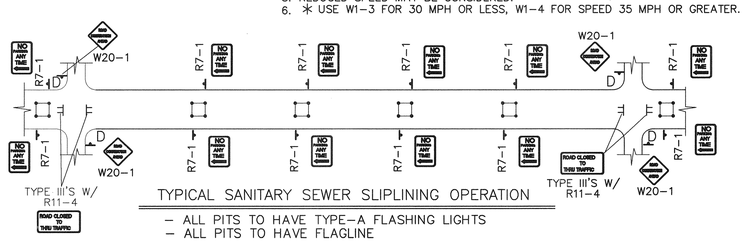
TYPICAL TRAFFIC SPLIT–(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT – (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. * USE W1–3 FOR 30 MPH OR LESS, W1–4 FOR SPEED 35 MPH OR GREATER.



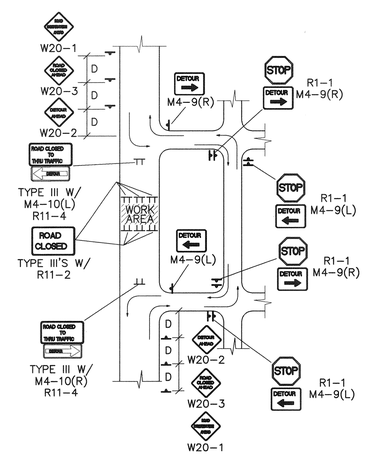
TYPICAL SANITARY SEWER SLIPLINING OPERATION

– ALL PITS TO HAVE TYPE–A FLASHING LIGHTS
– ALL PITS TO HAVE FLAGLINE

GENERAL NOTE:

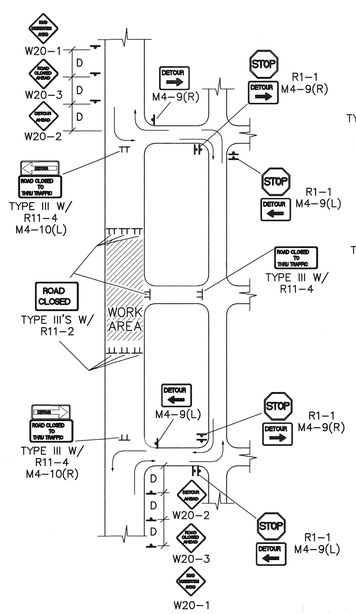
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.



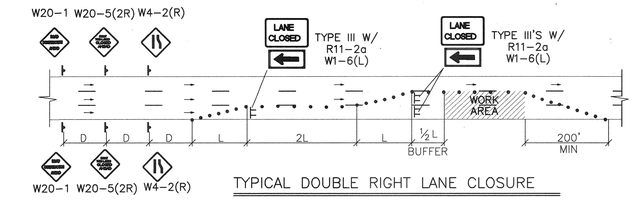
TYPICAL STREET CLOSURE

NOTE: (R1–1) BASED ON FIELD CONDITIONS.

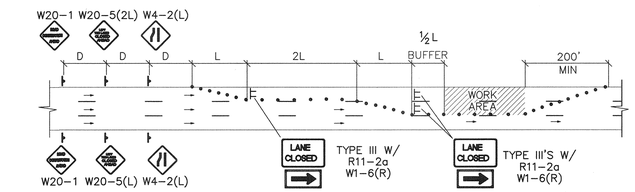


TYPICAL STREET CLOSURE

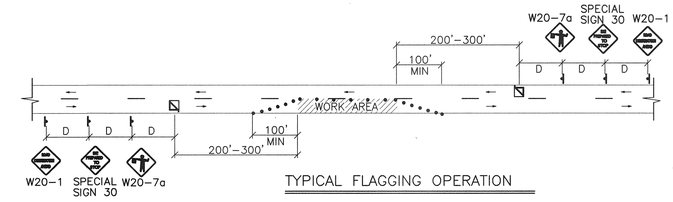
NOTE: (R1–1) BASED ON FIELD CONDITIONS.



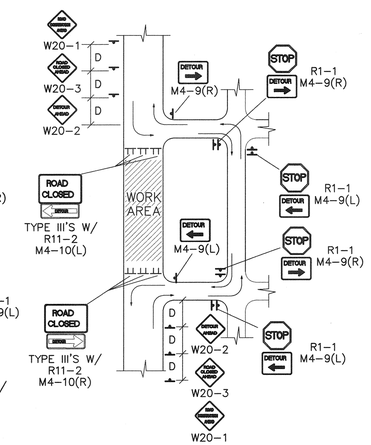
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

NOTE: (R1–1) BASED ON FIELD CONDITIONS.

AS-BUILT INFORMATION
CONTRACTOR SUNDANCE DATE
WORK STAKED BY DATE 8-03
WORK INSPECTED BY AIS DATE 8-08
ACCEPTANCE BY DATE 9-03
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY AIS DATE 9-03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

COA STD

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: COA DATE: 12/02
Drawn By: DATE: 12/02
Checked By: DATE: 12/02

Bohannan ▲ Huston inc

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

UNIVERSE BLVD. STREET IMPROVEMENTS
TYPICAL TRAFFIC CONTROL &
SIGNING EXAMPLES (REF MUTCD)

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

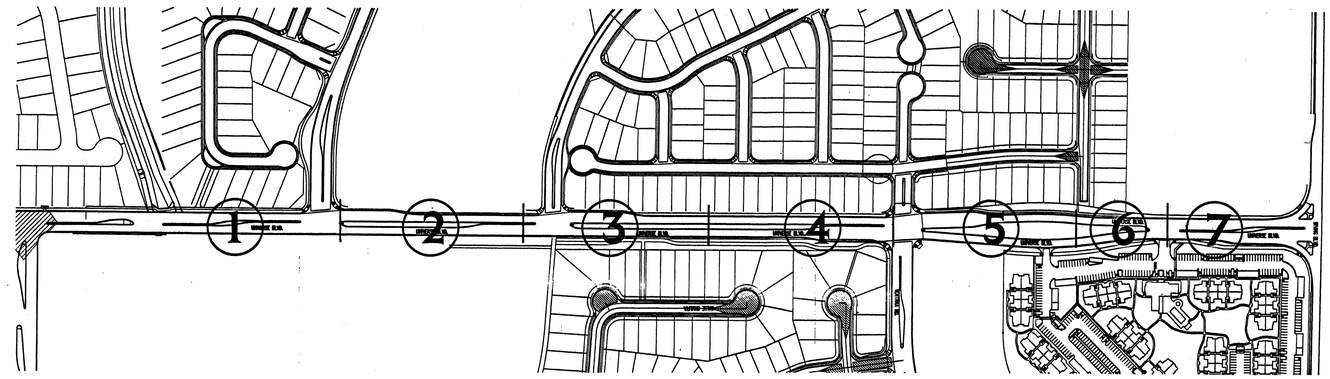
City Project No.	Zone Map No.	Sheet	Of
702381	B-9	11	19

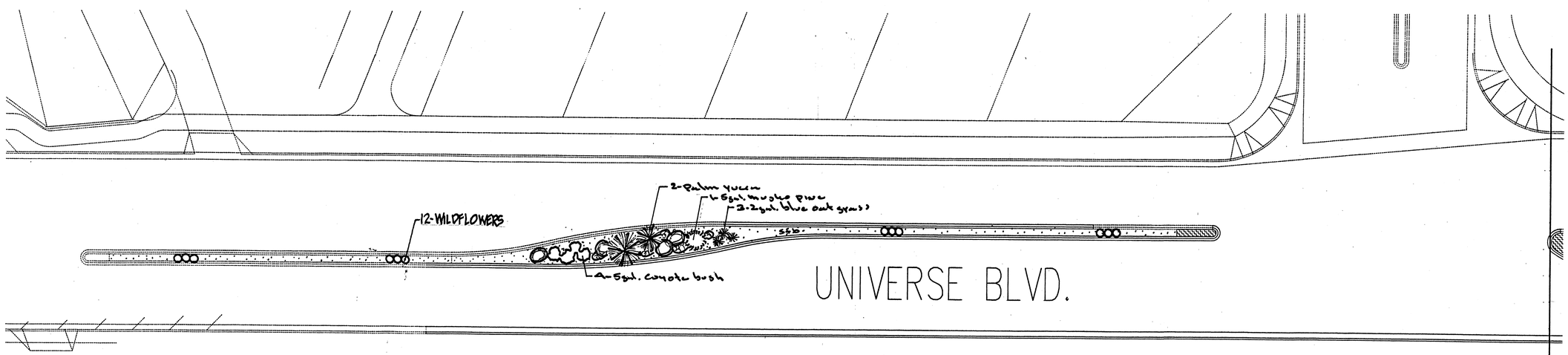
BHI JOB #020169001

DATE: DECEMBER, 2002

PLANT LEGEND

COTTON WOOD (H) 3 4" Cal.	PINON PINE (M) 4 6'–8'	VITEX TREE (M) 2 20 Gal.
ASH (H) 9 2 1/2" Cal.	AUSTRIAN PINE (H) 6 6'–8'	DESERT WILLOW (L) 9 15 Gal.
GOLDEN RAIN TREE (M) 3 2 1/2" Cal.	PALM YUCCA (L) 11	BLUE OAT GRASS (L) 6 2 Gal. 9sf
PURPLE ROBE LOCUST (L) 3 2 1/2" Cal.	MUGO PINE (L) 6 15 Gal.	ROSEMARY (M) 3 1 Gal. 36sf
NEW MEXICO OLIVE (M) 3 5 Gal.	AUTUMN SAGE (M) 9 5 Gal. 9sf	POTENTILLA (M) 14 1 Gal.
ALTHEA (M) 1 5 Gal.	APACHE PLUME (L) 3 5 Gal. 25sf	BOSTON IVY (M) 16 1 Gal. 400sf
SILVERBERRY (M) 26 5 Gal. 100sf	BLUE MIST SPIREA (M) 12 5 Gal.	LAVENDER (H) 3 1 Gal. 25sf
COTONEASTER (M) 3 5 Gal.	SCOTCH BROOM (M) 5 5 Gal.	BLUE PIN CUSHION (M) 11 1 Gal. 4sf
BIG SAGE (L) 1 5 Gal.	SERVICE BERRY (L) 1 5 Gal. 36sf	WILDFLOWER 39 1 Gal. 4sf
COYOTE BUSH (L) 15 5 Gal. 36sf	BUFFALO JUNIPER 4 5 Gal. 25sf	PENSTEMON (M) 6 1 Gal. 200sf
RUSSIAN SAGE (M) 3 5 Gal.	MAIDENGRASS (M) 36 5 Gal. 16sf	
TAM JUNIPER (M) 56 5 Gal. 225sf	CHAMISA (L) 2 5 Gal.	





1

LANDSCAPE NOTES:

Landscape maintenance shall be the responsibility of the Ventana Ranch Community Association, Inc.

It is the intent of this plan to comply with the City Of Albuquerque Water Conservation Landscaping and Water Waste Ordinance planting restriction approach.

Approval of this plan does not constitute or imply exemption from water waste provisions of the Water Conservation Landscaping and Water Waste Ordinance. Water management is the sole responsibility of the Property Owner.

All landscaping will be in conformance with the City of Albuquerque Zoning Code, Street Tree Ordinance, Pollen Ordinance, and Water Conservation Landscaping and Water Waste Ordinance. In general, water conservative, environmentally sound landscape principles will be followed in design and installation.

Plant beds shall achieve 75% live ground cover at maturity.

Santa Fe Brown Gravel over Filter Fabric shall be placed in all landscape areas which are not designated to receive native seed.

Landscape planting is to be adjusted in the field so that no plant is within 3' off the walk when planted.

IRRIGATION NOTES:

Irrigation shall be a complete underground system with Trees to receive (5) 1.0 GPH Drip Emitters and Shrubs to receive (2) 1.0 GPH Drip Emitters. Drip and Bubbler systems to be tied to 1/2" polypipe with flush caps at each end.

Run time per each drip valve will be approximately 15 minutes per day, to be adjusted according to the season.

Point of connection for irrigation system is unknown at current time and will be coordinated in the field.

Irrigation will be operated by automatic controller. Location of controller to be field determined and power source for controller to be provided by others.

Irrigation maintenance shall be the responsibility of the Ventana Ranch Community Association, Inc.

GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

The Hilltop
LANDSCAPE ARCHITECTS & CONTRACTORS
Cont. Lic. #26458
7909 Edith N.E.
Albuquerque, NM 87184
Ph. (505) 898–9690
Fax (505) 898–7737
cmd@hilltoplandscaping.com

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY AIS DATE 2-3
INSPECTOR ACCEPTANCE BY SJC DATE 3/10
FIELD VERIFICATION BY AIS DATE 9/12
DRAWINGS CORRECTED BY AIS DATE 5-26
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
JAMES E. ROY
10007
REGISTERED LANDSCAPE ARCHITECT
1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY Hilltop DATE 4/02
DRAWN BY Hilltop DATE 4/02
CHECKED BY Hilltop DATE 4/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

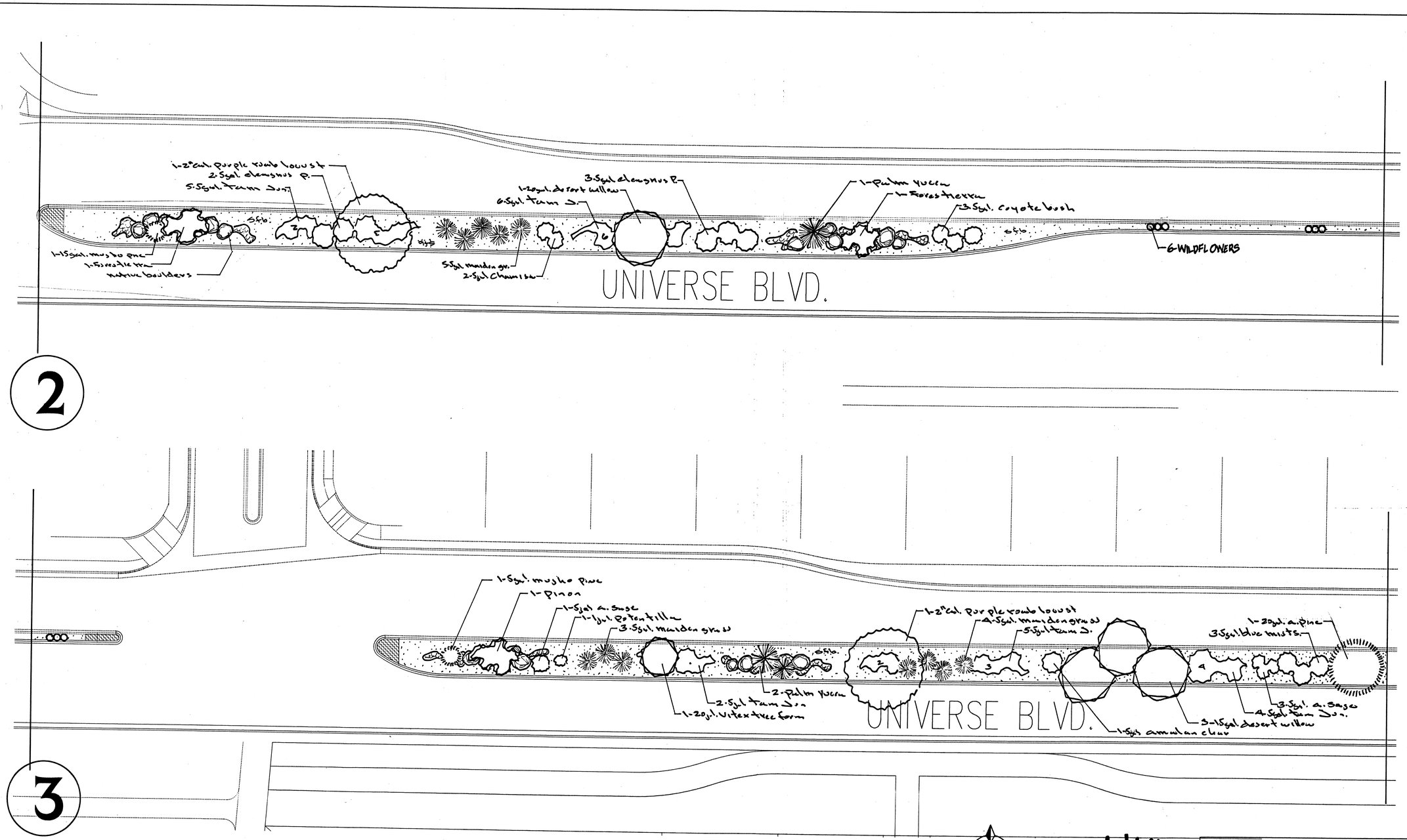
UNIVERSE BLVD. AT VENTANA RANCH
LANDSCAPE PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR – 7 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B – 9	12	19



GRAPHIC SCALE

20 10 0 10 20

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH
LANDSCAPE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE	APR 29 2003 CITY ENGINEER			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	13	19

AS-BUILT INFORMATION
CONTRACTOR Sundance
STAKED BY AIS 03
INSPECTOR'S ACCEPTANCE BY SAC DATE 2/13
FIELD VERIFICATION BY AIS DATE 3/03
DRAWINGS CORRECTED BY AIS DATE 3/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

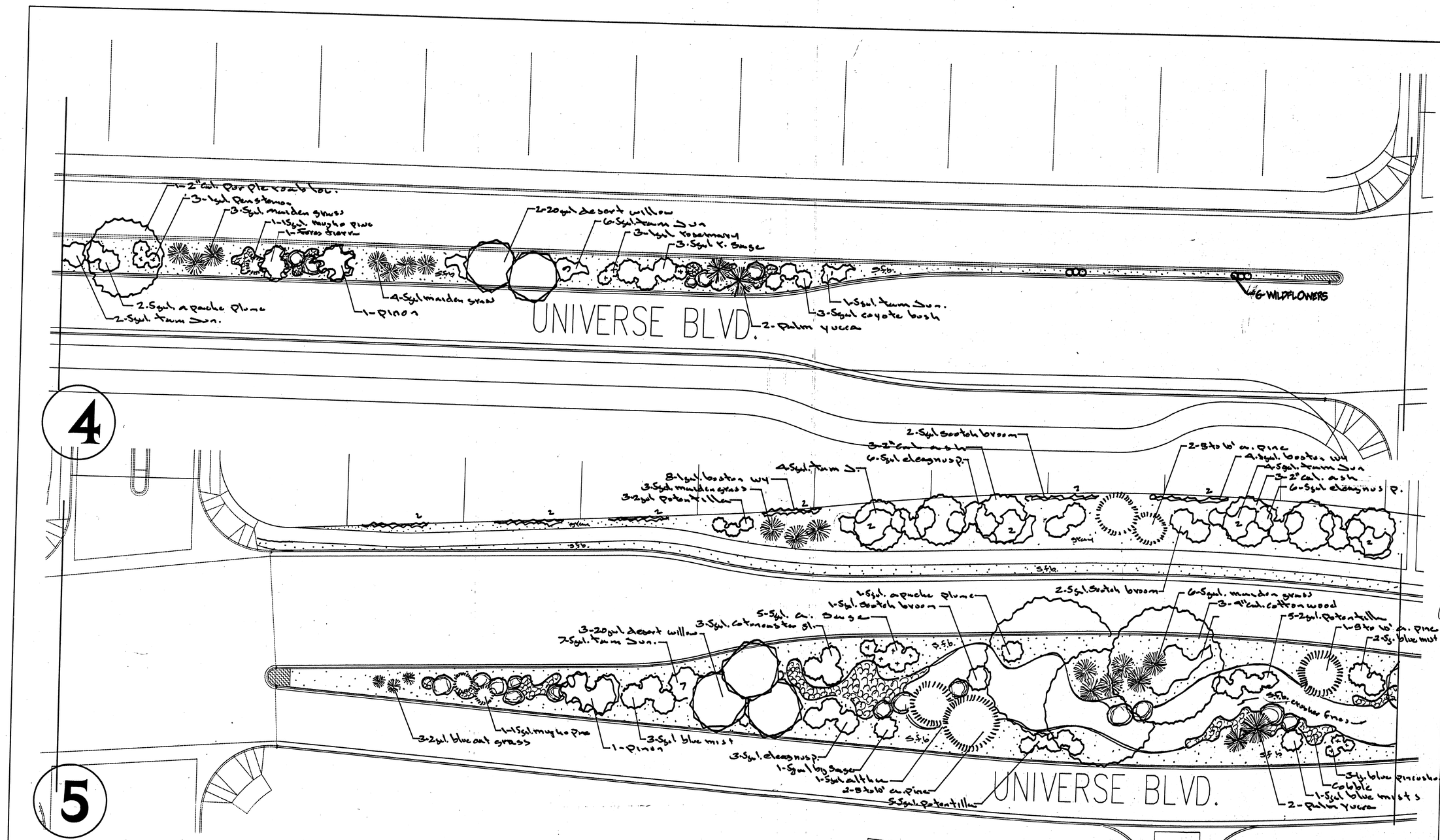
SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
JAMES DE PLONI
0007
REGISTERED LANDSCAPE ARCHITECT
1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	Hilltop	DATE 4/02
DRAWN BY	Hilltop	DATE 4/02
CHECKED BY	Hilltop	DATE 4/02



GRAPHIC SCALE

20 10 0 10 20

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH
LANDSCAPE PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 — DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 29 2003 — CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 14 OF 19

ENGINEER'S SEAL
STATE OF NEW MEXICO
JAMES DE FLON
0007
REGISTERED LANDSCAPE ARCHITECT
1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

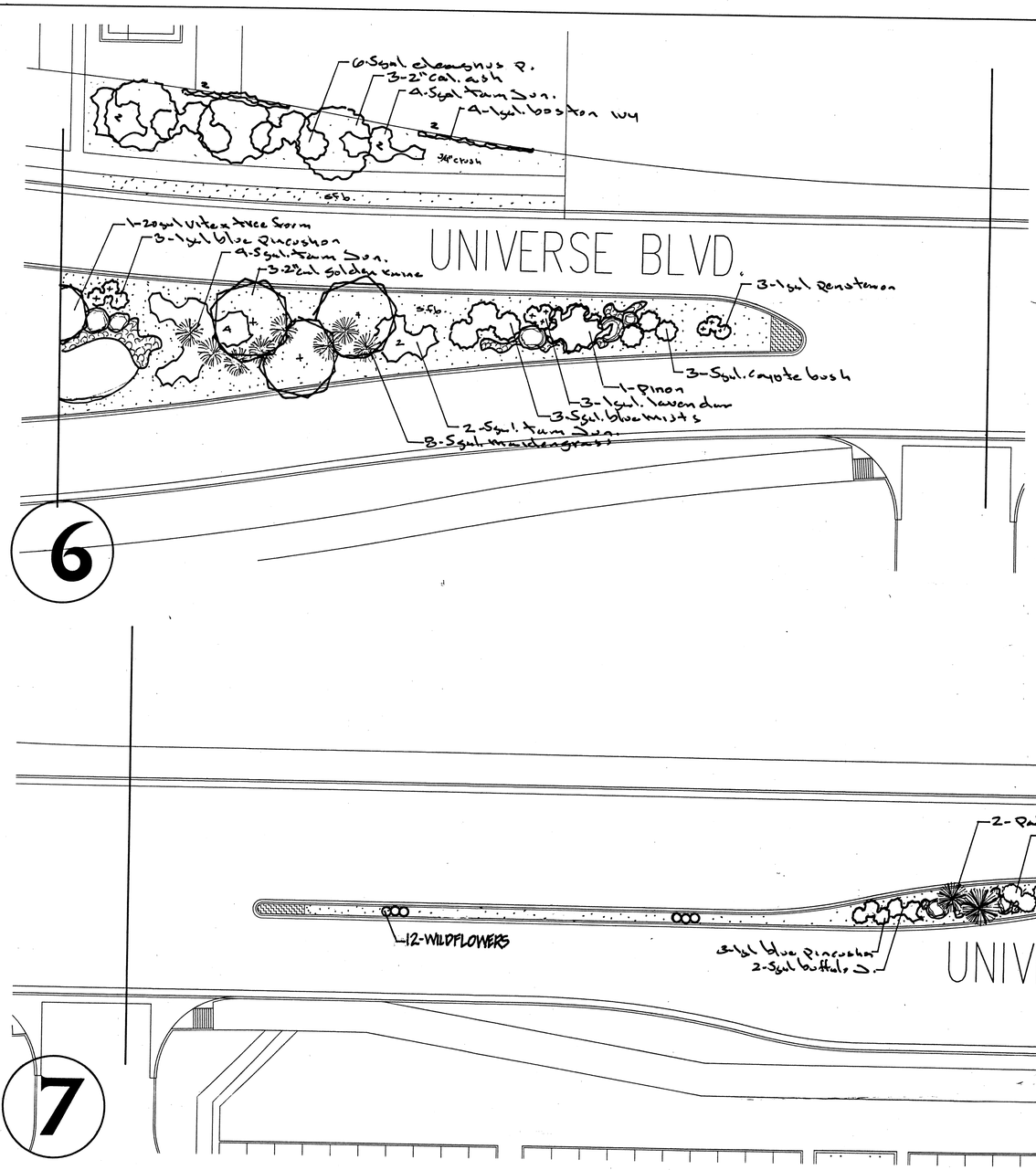
DESIGNED BY Hilltop DATE 4/02
DRAWN BY Hilltop DATE 4/02
CHECKED BY Hilltop DATE 4/02

AS-BUILT INFORMATION
CONTRACTOR Sunindance
WORK STAKED BY AIS DATE 2/03
INSPECTOR'S ACCEPTANCE BY [illegible] DATE 2/03
FIELD VERIFICATION BY AIS DATE 2/03
DRAWINGS CORRECTED BY AIS DATE 2/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE



GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

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LANDSCAPE ARCHITECTS & CONTRACTORS
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Albuquerque, NM 87184
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AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY AHS DATE 3/03
INSPECTOR'S ACCEPTANCE BY SJC DATE 4/03
FIELD VERIFICATION BY AHS DATE 4/03
DRAWINGS CORRECTED BY AHS DATE 5/03
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RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO
CHARLES M. DUNCAN JR.
REGISTERED LANDSCAPE ARCHITECT

1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY Hilltop DATE 4/02
DRAWN BY Hilltop DATE 4/02
CHECKED BY Hilltop DATE 4/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH
LANDSCAPE PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE

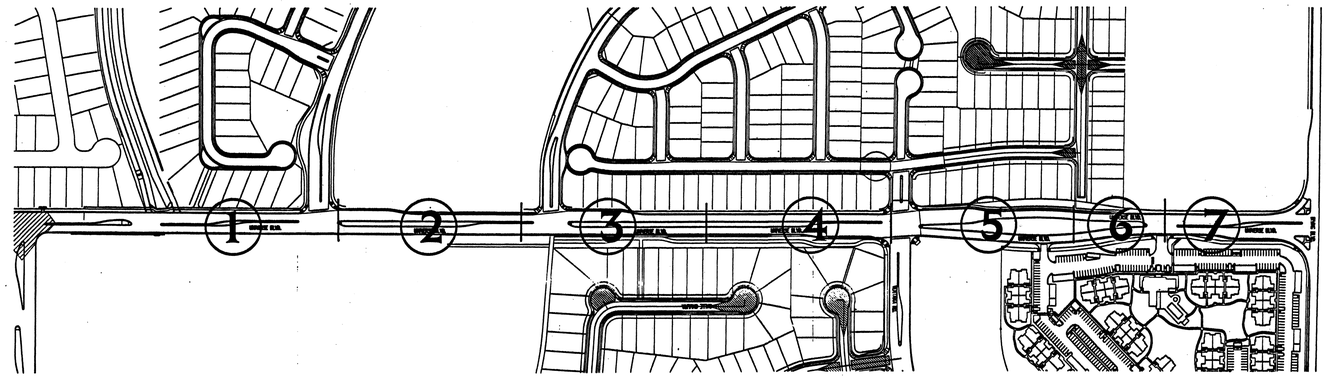
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

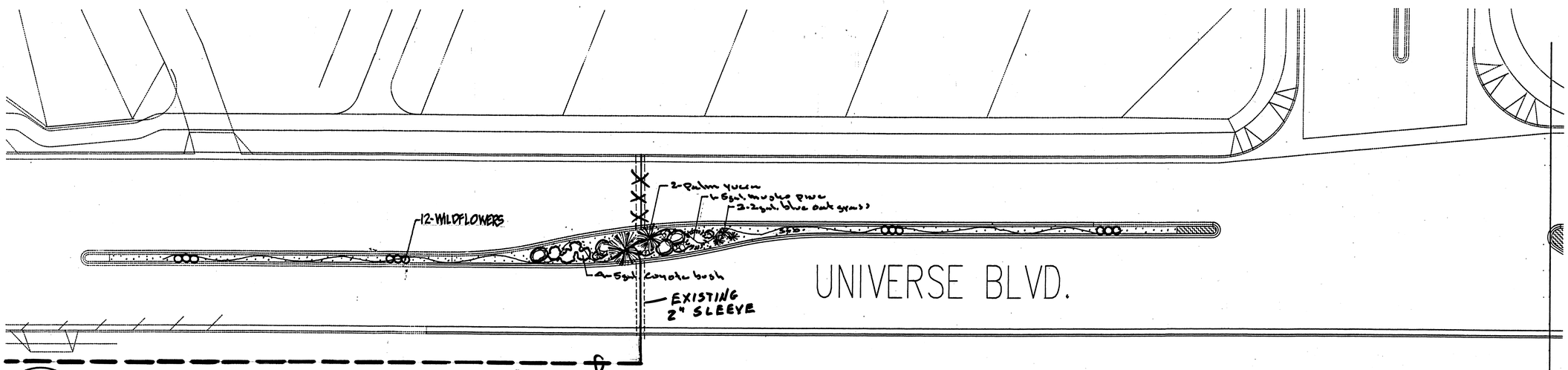
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 15 OF 19

IRRIGATION LEGEND

- ~~EXISTING LINE~~ IRRIGATION DISTRIBUTION LINES
- LATERAL, SIZE PER PLAN (UNSIZED PIPE TO BE 3/4").
- DRIP LINE, SIZE PER PLAN (UNSIZED DRIP LINE TO BE 1/2").
- DISTRIBUTION LINE
- [W] WATER METER





1

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GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

The Hilltop
LANDSCAPE ARCHITECTS & CONTRACTORS
Cont. Lic. #26458
7909 Edith N.E.
Albuquerque, NM 87184
Ph. (505) 898-9690
Fax (505) 898-7737
cmd@hilltoplandscaping.com

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY AIS
INSPECTOR'S ACCEPTANCE BY SSC DATE 3/13/03
FIELD VERIFICATION BY AIS DATE 3/13/03
DRAWINGS CORRECTED BY AIS DATE 3/13/03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

AL SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO
JAMES D. ROSS
9007
REGISTERED LANDSCAPE ARCHITECT

1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	Hilltop	4/02
DRAWN BY	Hilltop	4/02
CHECKED BY	Hilltop	4/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH

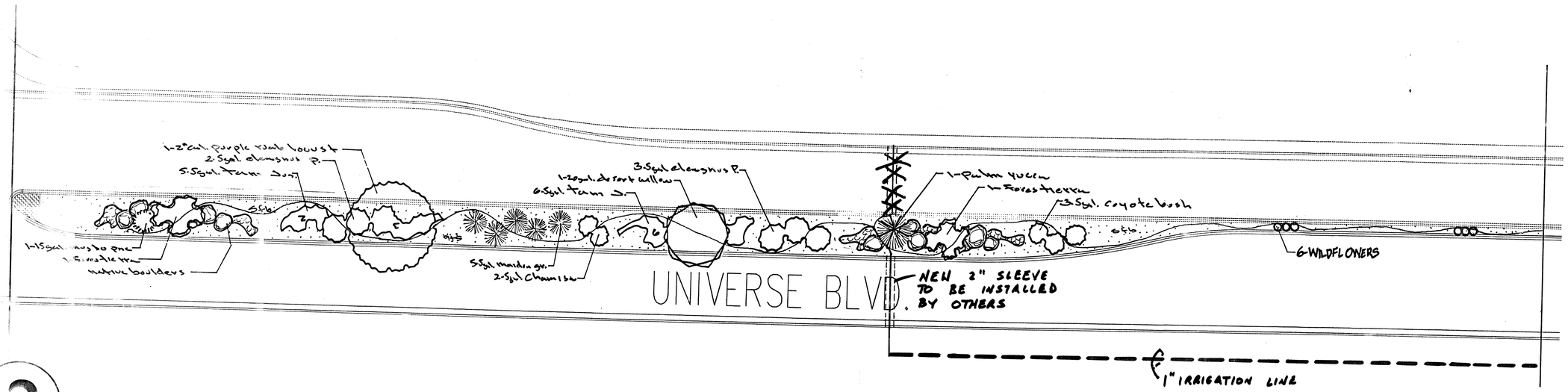
IRRIGATION PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	8-9	16	19



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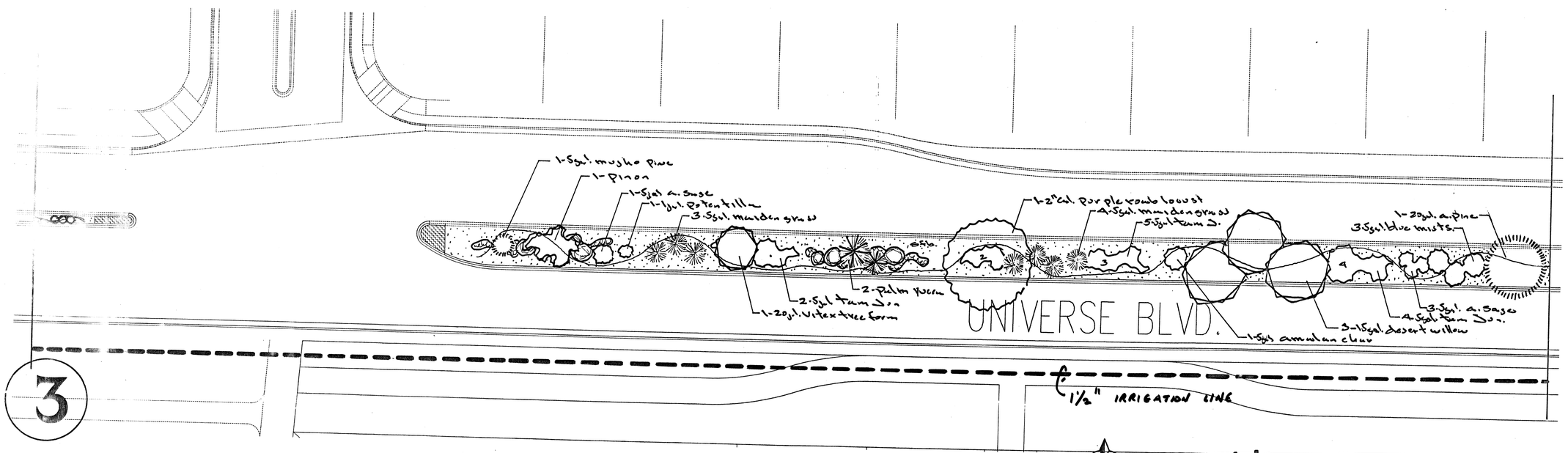

3

GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH

IRRIGATION PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 702381 | ZONE MAP NO. B-9 | SHEET 17 OF 19

AS-BUILT INFORMATION

CONTRACTOR SUNDANCE
WORK STAKED BY AS DATE 2/10
INSPECTOR'S ACCEPTANCE BY SC DATE 3/03
FIELD VERIFICA. ON BY AS DATE 3/03
DRAWINGS CORRECTED BY AS DATE 3/03

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

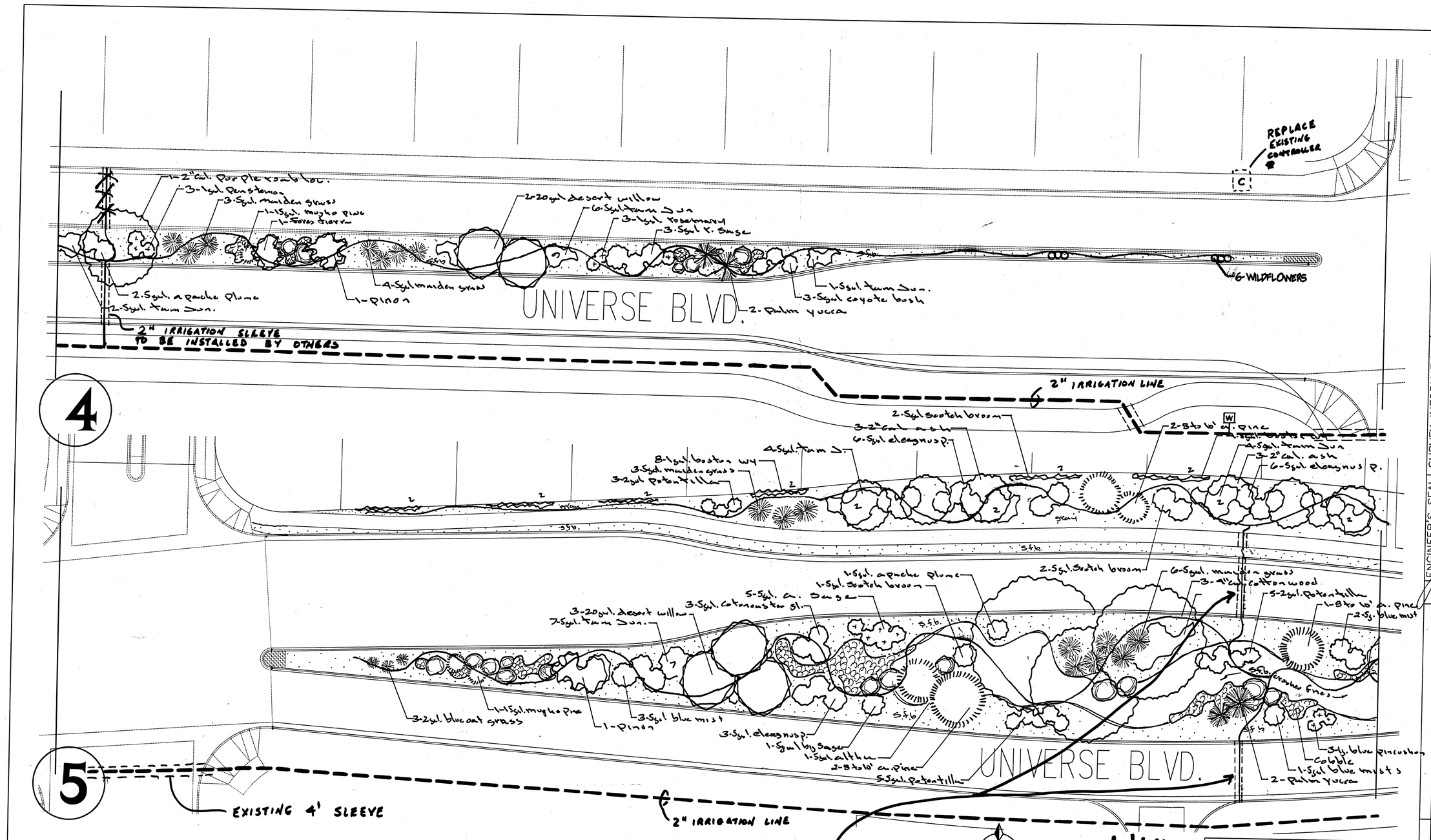
STATE OF NEW MEXICO
DEFRON
6007
REGISTERED LANDSCAPE ARCHITECT
1-24-03
3-13-03

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN

		DATE
DESIGNED BY	Hilltop	4/02
DRAWN BY	Hilltop	4/02
CHECKED BY	Hilltop	4/02



—— steel edging
sway — 3/4" crushed gray gravel over f.f.
s.f.b — Santa Fe brown / f.f.

The Hilltop
LANDSCAPE ARCHITECTS & CONTRACTORS
Cont. Lic. #26458
7909 Edith N.E.
Albuquerque, NM 87184
Ph. (505) 898-9690
Fax (505) 898-7737
cmd@hilltoplandscaping.com

AS-BUILT INFORMATION
CONTRACTOR Sundance DATE 3-27-03
WORK STAKED BY ALS
INSPECTOR'S ACCEPTANCE BY CSL DATE 4-15-03
FIELD VERIFICATION BY ALS DATE 7-23-03
DRAWINGS CORRECTED BY ALS DATE 7-23-03
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO
JAMES O. ELSON
10007
REGISTERED LANDSCAPE ARCHITECT
1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	

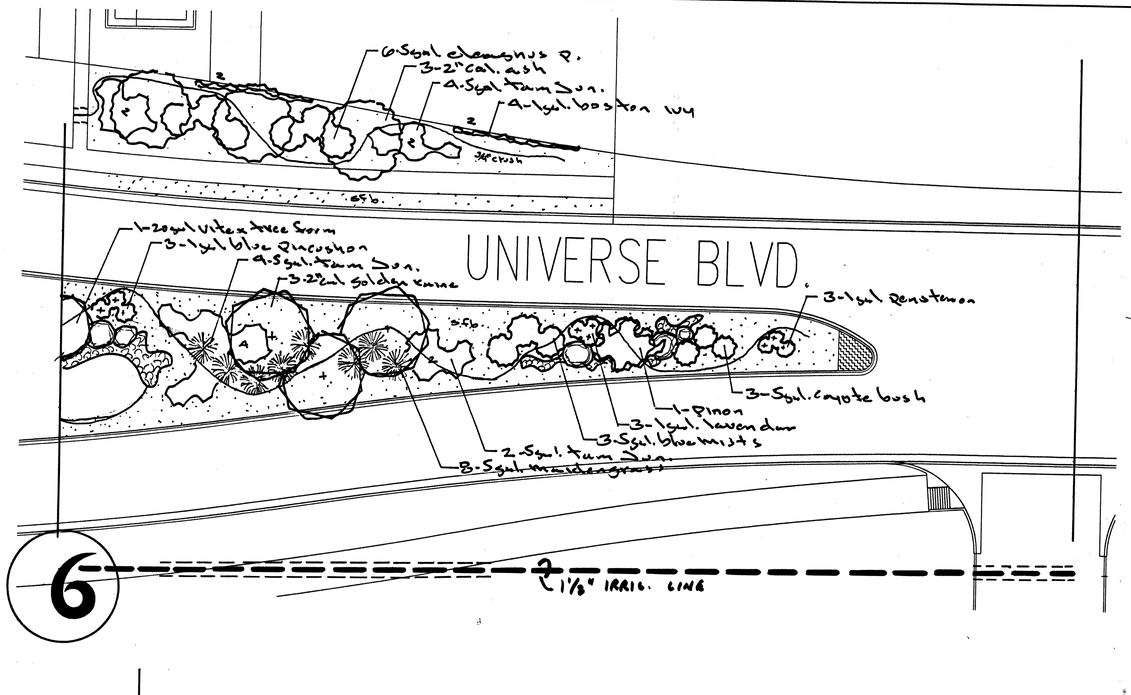
		DATE
DESIGNED BY	Hilltop	4/02
DRAWN BY	Hilltop	4/02
CHECKED BY	Hilltop	4/02

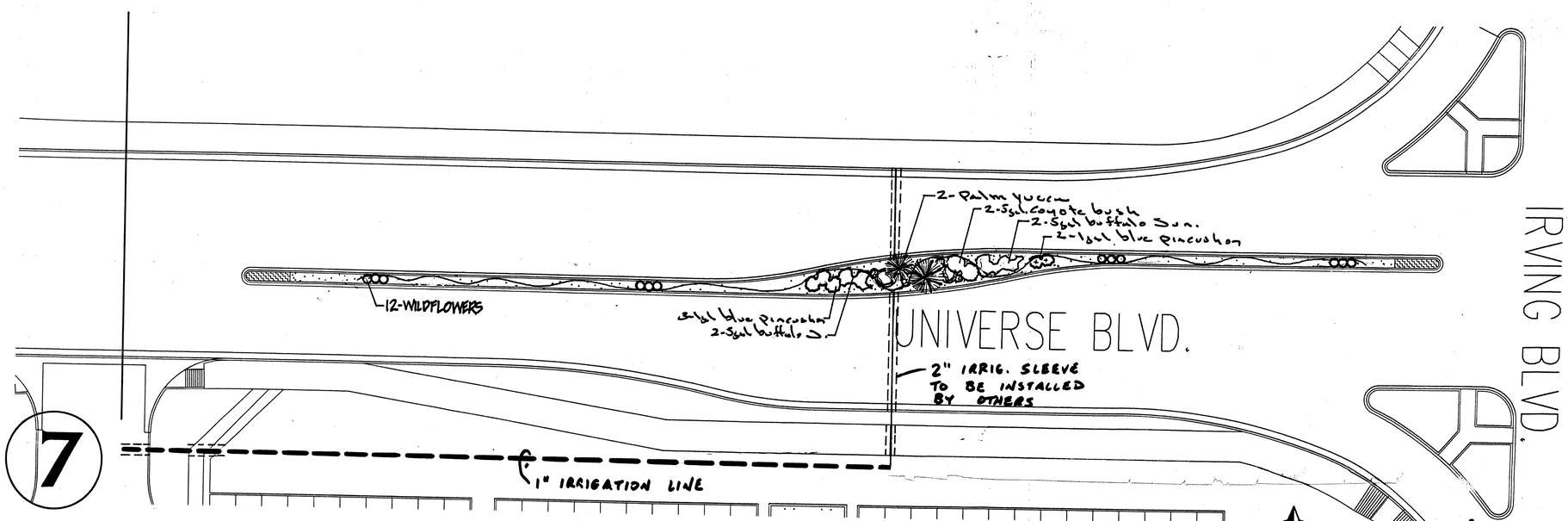
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH
IRRIGATION PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER
LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO. 702381
ZONE MAP NO. B-9
SHEET 18 OF 19





GRAPHIC SCALE

20 10 0 10 20

SCALE: 1"=20'

The Hilltop

LANDSCAPE ARCHITECTS & CONTRACTORS

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Albuquerque, NM 87184
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AS-BUILT INFORMATION

CONTRACTOR	SUNDANCE
WORK STAKED BY	AIS
INSPECTOR'S ACCEPTANCE BY	DATE 4/03
FIELD VERIFICATION BY	AIS DATE 9/03
DRAWINGS CORRECTED BY	AIS DATE 9/03
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO
JAMES DE FLON
0007
REGISTERED LANDSCAPE ARCHITECT

1-24-03
3-13-03

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

DESIGNED BY	Hilltop	DATE 4/02
DRAWN BY	Hilltop	DATE 4/02
CHECKED BY	Hilltop	DATE 4/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNIVERSE BLVD. AT VENTANA RANCH

IRRIGATION PLAN

DESIGN REVIEW COMMITTEE: APPROVED APR - 7 2003 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL: APPROVED APR 29 2003 CITY ENGINEER

LAST DESIGN UPDATE | MO./DAY/YR. | MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
702381	B-9	19	19