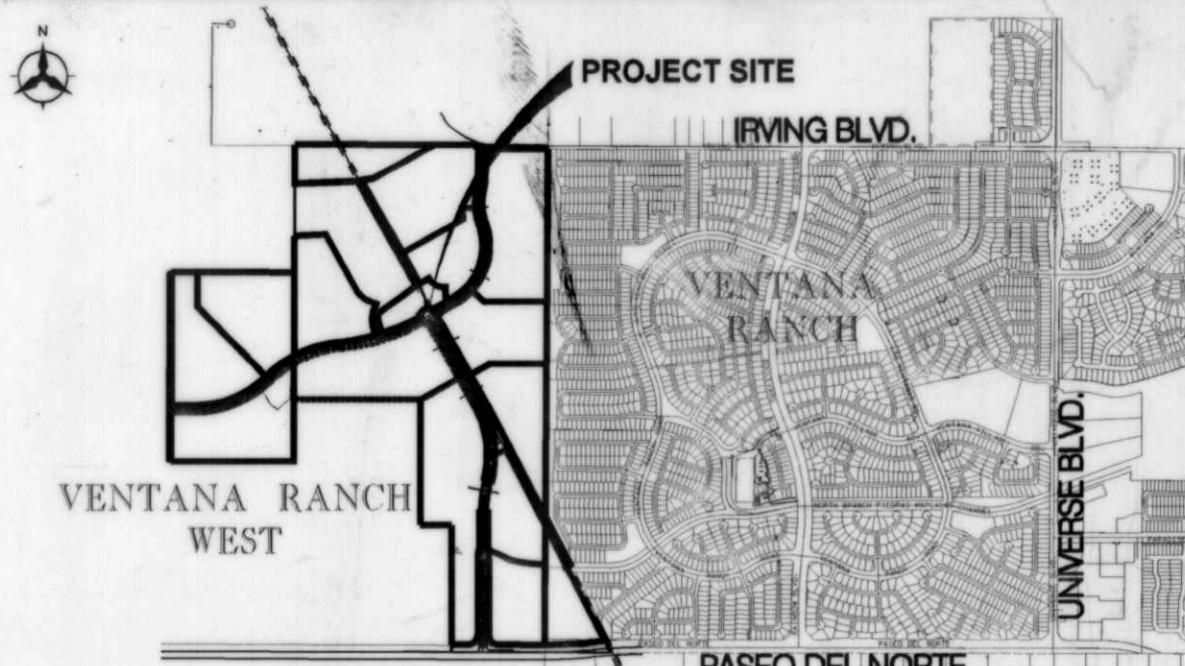


# CONSTRUCTION PLANS FOR VENTANA RANCH WEST WATER & SANITARY SEWER IMPROVEMENTS - PHASE 1 ALBUQUERQUE, NEW MEXICO



VICINITY MAP: NOT TO SCALE ZONE MAP NO. B-8-Z

## 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.7.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. THE (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICAADING 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.
- 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.
- 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 TO THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE, UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4. OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS).
- THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES, (898-2661) THREE WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- 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

- 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 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.

## RECORD DRAWINGS

### 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 derived from the 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



## INDEX

SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2 - 4	PLAT
5	SITE DESCRIPTION PLAN
6	OVERALL UTILITY PLAN
7	UTILITY PLAN AND PROFILE SHEETS
8	VENTANA WEST PARKWAY STA. 0+00.00 - 7+50.00
9	VENTANA WEST PARKWAY STA. 7+50.00 - 17+50.00
10	VENTANA WEST PARKWAY STA. 17+50.00 - 28+00.00
11	VENTANA WEST PARKWAY STA. 28+00.00 - 39+00.00
12	VENTANA RIDGE ROAD STA. 23+00.00 - 32+50.00
13	VENTANA RIDGE ROAD STA. 32+50.00 - 42+00.00
14	VENTANA RIDGE ROAD STA. 42+00.00 - 52+00.00
15	20" TRANSMISSION WATERLINE, STA. 1+00.00 - 13+94.78
16	12" WATERLINE STA. 64+21.82 - 73+00.00
17	12" WATERLINE STA. 73+00.00 - 83+00.00
18	12" WATERLINE STA. 83+00.00 - 91+00.00
19	IRVING/N. BOUNDARY STA. 91+00.00 - 102+00.00
20	LINE "A" SAS STA. 0+00.00 - 6+50.00
21	LINE "A" SAS STA. 6+50.00 - 11+82.61
22	TRACT 5 SAS STA. 0+00 - 3+00 AND STA. 10+00 - 13+81.76 LINE "B" AND LINE "C" SAS CROSSING

REV.	Sheets	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	* * * * *	*	*	*
	DRC Chairman Transportation Water/Wastewater Hydrology CIP Const. Mngmt. Const. Coord. NMUI		6/8/04				
DRB CASE NUMBER	04 DRB-00128	CITY PROJECT NO.	617684	SHEET	1	OF	22







## Bohannan □ Huston

Counted and Registered Professional Surveyor No. 6544

**BULK LAND PLAT FOR  
VENTANA RANCH WEST**  
WITHIN THE CITY OF ALBUQUERQUE  
AND BERNALILLO COUNTY, NEW MEXICO  
FEBRUARY, 2004

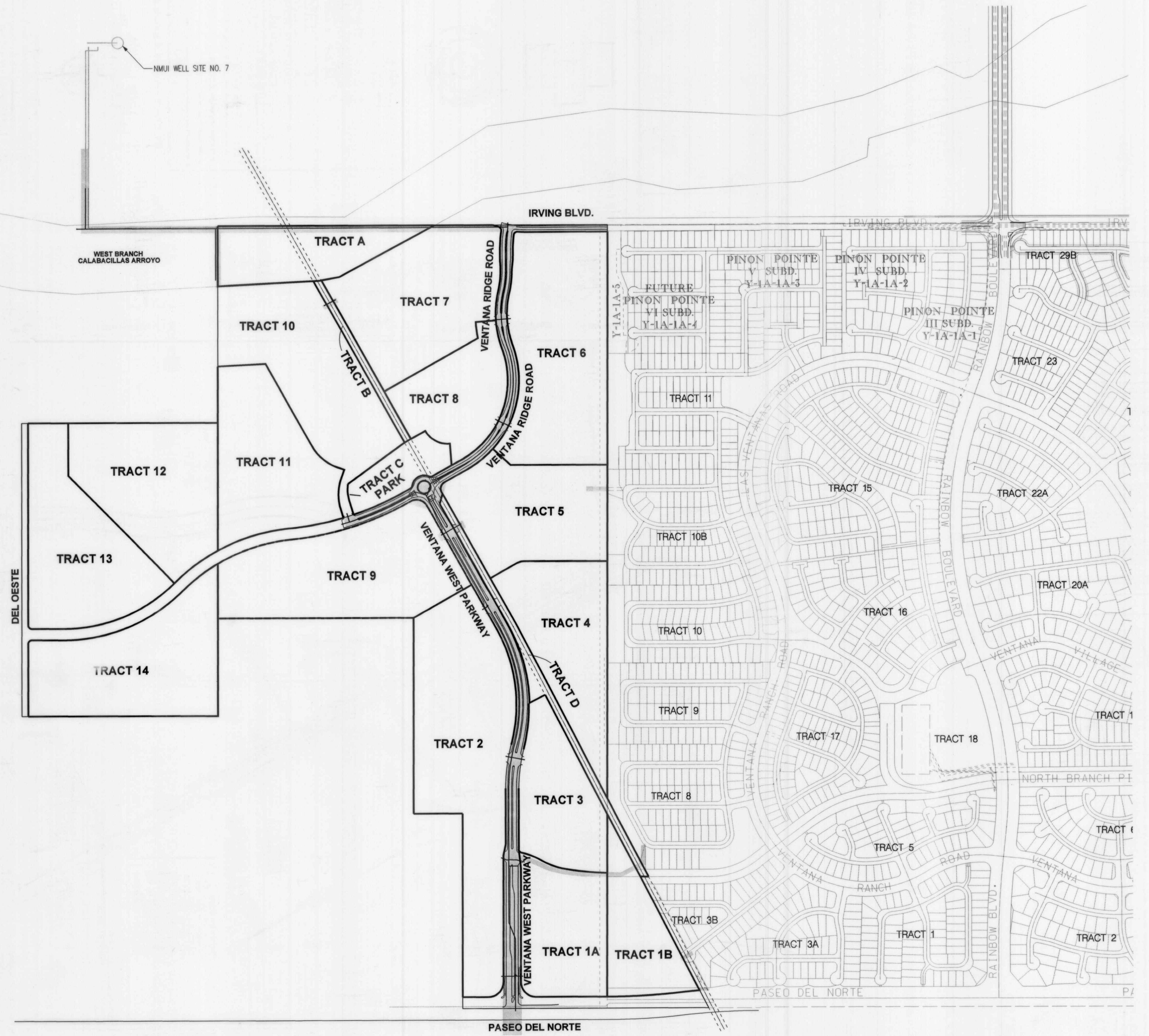
Job No. 04-02370-002  
P.O. Box 2000  
7500 Jefferson St. NE  
Albuquerque, NM 87109-4335

Engineering & Spatial Data Advanced Technologies

**BULK LAND PLAT FOR  
VENTANA RANCH WEST**  
WITHIN THE CITY OF ALBUQUERQUE  
AND BERNALILLO COUNTY, NEW MEXICO  
FEBRUARY, 2004

Job No. 04-02370-002  
P.O. Box 2000  
7500 Jefferson St. NE  
Albuquerque, NM 87109-4335

CURVE DATA					
ID	DELTA	TANGENT	ARC	RADIUS	CHORD
C1	14° 30' 28"	277.78	140.01	278.53	110.00
C2	44° 01' 40"	845.77	444.74	847.27	110.00
C3	44° 38' 35"	451.63	857.10	110.00	824.63
C4	23° 38' 50"	110.00	835.58	110.00	110.00
C5	23° 59' 58"	110.00	835.58	110.00	110.00
C6	23° 59' 58"	422.37	835.44	200.00	533.44
C7	33° 14' 17"	533.47	916.96	650.00	842.80
C8	33° 14' 17"	194.01	377.07	500.00	377.07
C9	33° 14' 17"	146.04	377.07	500.00	453.00
C10	33° 14' 17"	72.50	146.04	145.00	145.00
C11	33° 14' 17"	60.70	121.39	121.39	121.39
C12	33° 14' 17"	51.00	100.00	100.00	100.00
C13	33° 14' 17"	42.87	80.00	80.00	80.00
C14	33° 14' 17"	33.50	60.00	60.00	60.00
C15	15° 34' 05"	132.30	108.00	108.00	108.00
C16	15° 34' 05"	132.30	108.00	108.00	108.00
C17	15° 34' 05"	132.30	108.00	108.00	108.00
C18	80° 49' 40"	585.82	970.57	688.00	892.07
C19	33° 14' 17"	182.67	355.03	612.00	350.07
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C97	33° 14' 17"	182.67	355.03	612.00	350.07
C98	33° 14' 17"	182.67	355.03	612.00	350.07
C99	33° 14' 17"	182.67	35		



AS-BUILT INFORMATION		BENCH MARKS	
ENGINEER'S SEAL	SURVEY INFORMATION	ACS BRASS TABLET STAMPED '2-B10 1980'	CONTRACTOR <i>Sundance</i>
NO.	FIELD NOTES	DATE	WORKED BY <i>AIS</i>
REMARKS	BY	GEOPHIC POSITION (NAD 1927)	INSPECTOR'S ACCEPTANCE BY <i>AIS</i>
REVISIONS	BY	N.M. STATE PLANE COORDINATES	FIELD VERIFICATION BY <i>AIS</i> DATE <i>7/05</i>
DESIGN	BY	(CENTRAL ZONE)	DRAINED BY <i>AIS</i> DATE <i>7/05</i>
		X=357.543, Y=1,527.976, 48	GROUND TO GRID FACTOR = 99966354
		16586 G7104	

Z

NOT TO SCALE

UTILITY IMPROVEMENTS THIS PROJECT

APPROVED BY *C-Tay* DATE *C-Tay*

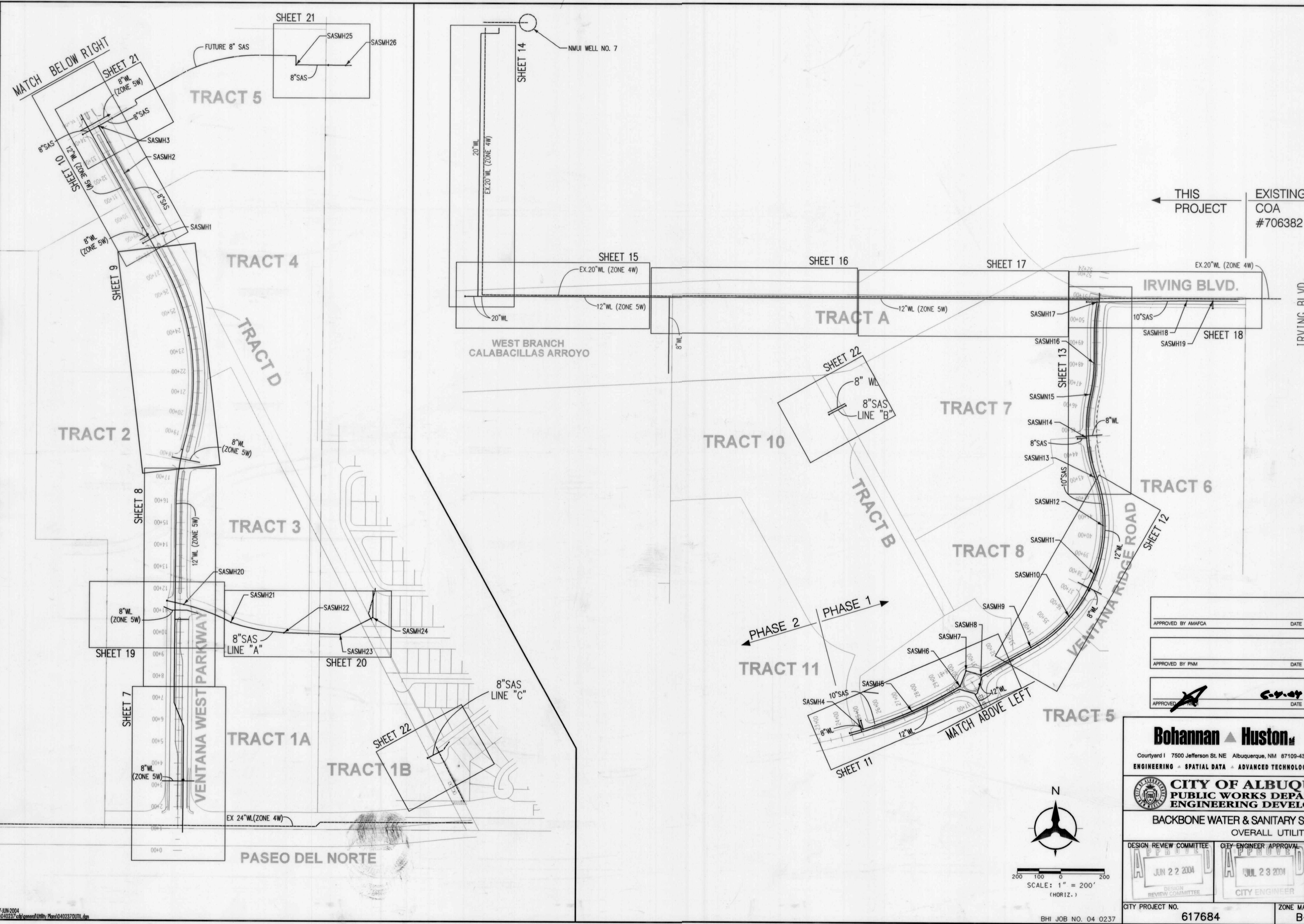
**Bohannan Huston**  
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335  
ENGINEERING • SPATIAL DATA • ADVANCED TECHNOLOGIES

**CITY OF ALBUQUERQUE**  
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING DEVELOPMENT GROUP**

BACKBONE WATER & SANITARY SEWER IMPROVEMENT  
SITE DESCRIPTION PLAN

DESIGN REVIEW COMMITTEE <b>APPROVED</b> JUN 22 2004	CITY ENGINEER APPROVAL <b>APPROVED</b> JUL 23 2004	LAST DESIGN UPDATE MO./DAY/YR. MO./DAY/YR.
DESIGN REVIEW COMMITTEE CITY ENGINEER		

CITY PROJECT NO. 617684 ZONE MAP NO. B-8-Z SHEET 5



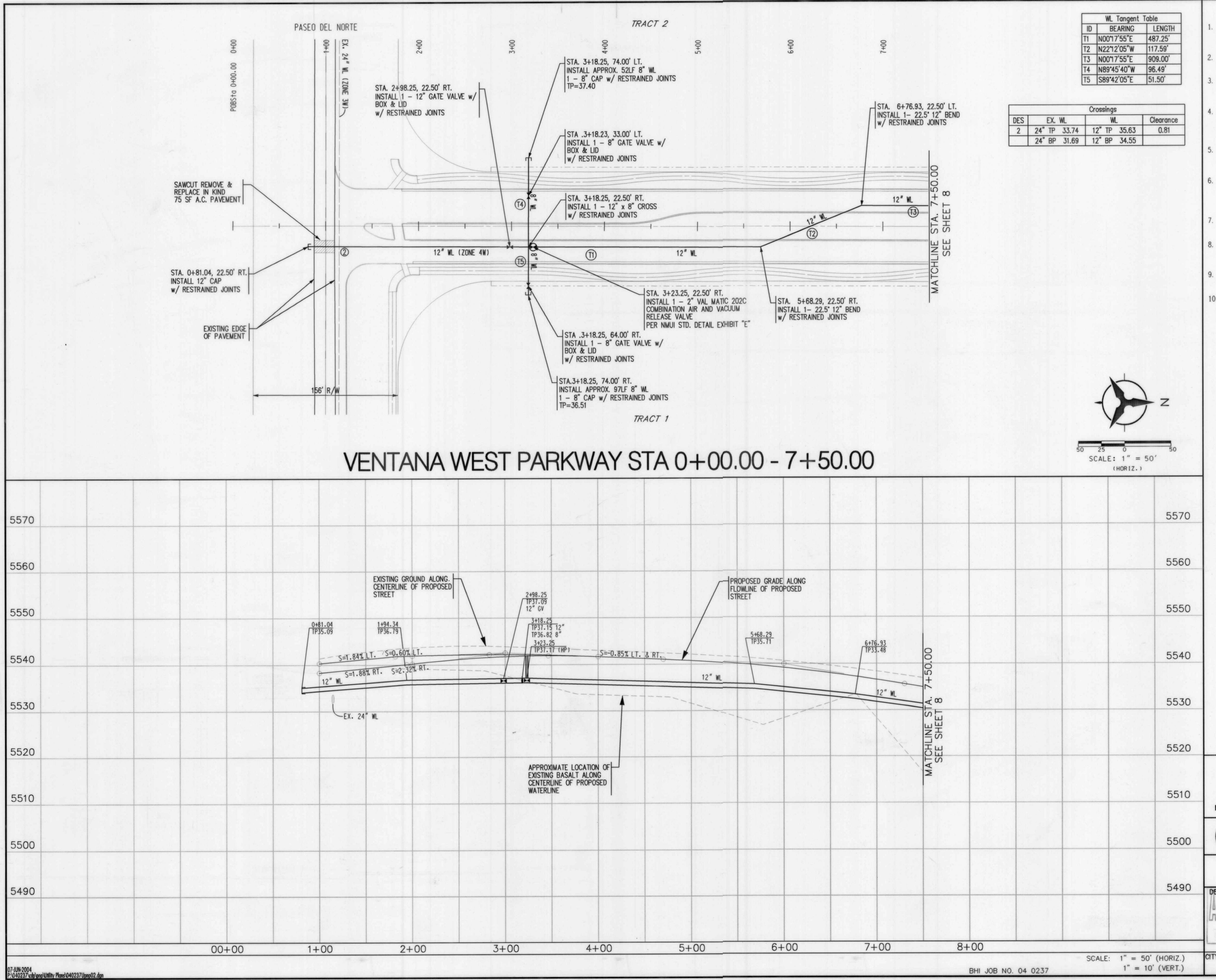
**UERQUE  
RTMENT  
OPMENT GROUP**

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**SEWER IMPROVEMENTS  
ITY PLAN**

MO./DAY/YR.      MO./DAY

LAST DESIGN UPDATE			

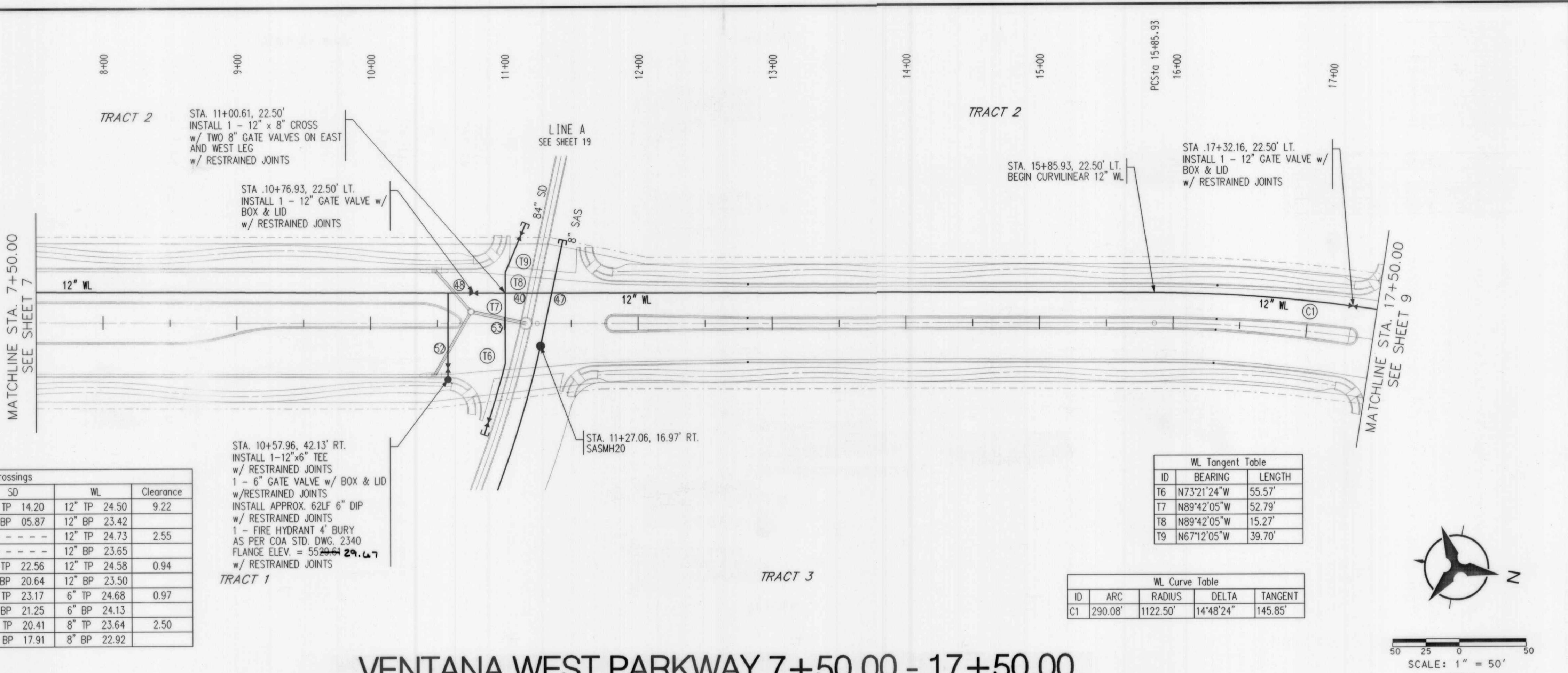


AS-BUILT INFORMATION	
CONTRACTOR	SUPERVISOR
WORK BY	INSPECTOR'S ACCEPTANCE BY
FIELD	DATE
VERIFIED BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	

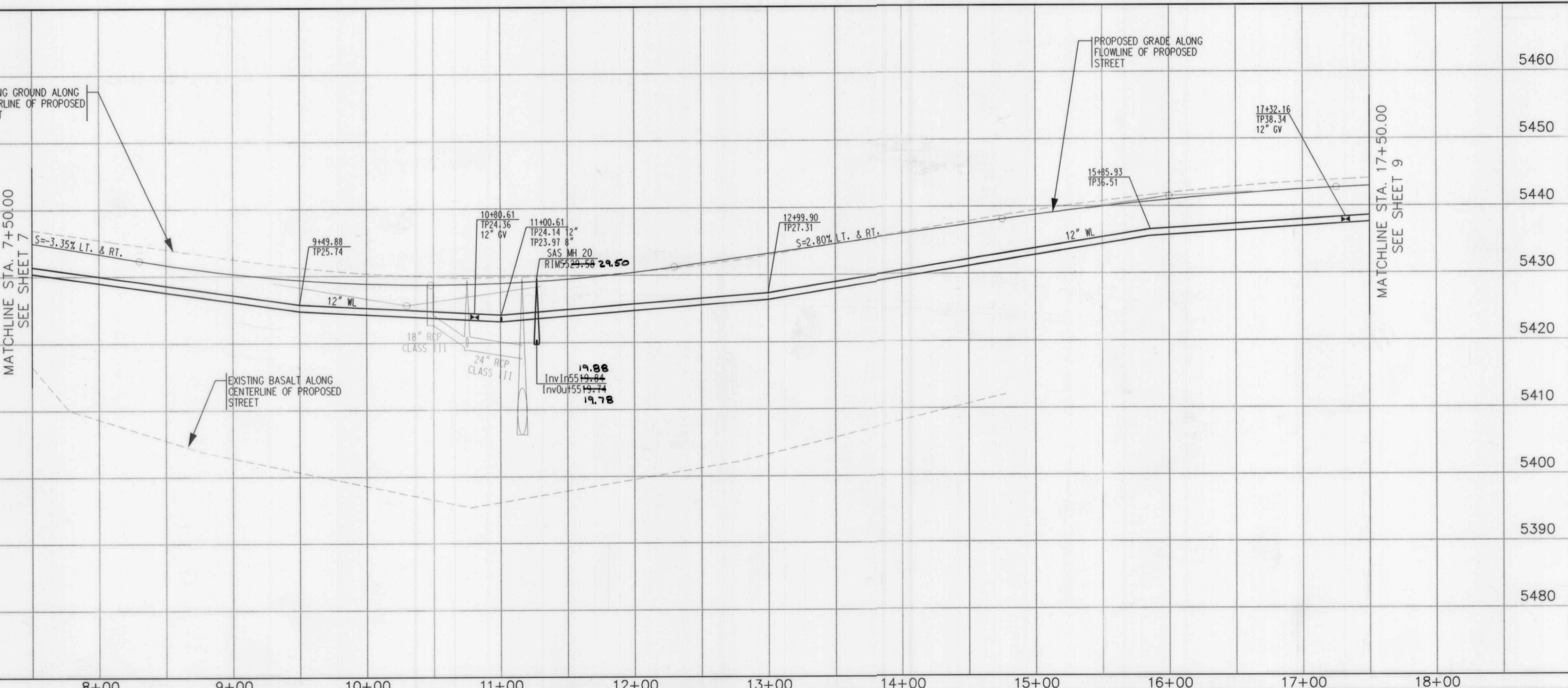
**NOTES**

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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.
- 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 & 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).
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- NO WORK SHALL BE UNDER TAKEN WITHIN EXISTING 50' GASLINE EASEMENT WITHOUT FIRST CONTACTING PNM.
- CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES ON PASEO DEL NORTE. THE USE OF AN UNPAVED DETOUR FOR UP TO TWO DAYS WILL BE ALLOWED WITH PROPER BARRICADING

*[Signature]*  
JAMES J. HANLEY  
NEW MEXICO  
REGISTERED PROFESSIONAL ENGINEER(S)  
16586  
G71104



VENTANA WEST PARKWAY 7+50.00 - 17+50.00



BENCH MARKS  
AS-BUILT INFORMATION

## NOTES

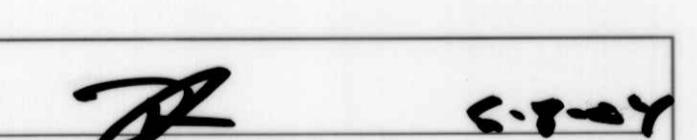
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RESTRAINING JOINT TABLE				
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS			
	20" DIP	12" PVC	8" PVC	
E/AIR RELEASE VALVE	N/A	65'	65'	
TERFLY/AIR RELEASE VALVE	55'	N/A	N/A	
	55'	65'	65'	
	14'	18'	-	
UCER	35'	-	-	
5° HORIZ. BEND	-	6'	4'	
HORIZ. BEND	-	11'	-	

- MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED STANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE).
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE LINE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
- RESTRAINED LENGTHS FOR REDUCERS ARE FOR THE LARGE SIDE.
- RESTRAINED LENGTHS FOR VERTICAL BENDS ARE SHOWN IN PROFILE.

**GENERAL NOTE:**  
**ALL SANITARY SEWER MANHOLES SHALL BE  
4' DIAMETER TYPE "E" AS PER NM APWA  
STANDARD DRAWING 2102  
UNLESS OTHERWISE NOTED.**

**STORM DRAIN AND ROADWAY SHOWN  
FOR REFERENCE ONLY. FOR CONSTRUCTION**



**Kohannan ▾ Huston**

7500 Jefferson St. NE Albuquerque, NM 87109-4335

BRING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CITY OF ALBUQUERQUE

# CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

**PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT**

## **ACKBONE WATER & SANITARY SEWER**

UTILITY PLAN & PROFILE  
MONTANA WEST PARKWAY 3 • FG-2

VIEW COMMITTEE CITY ENGINEER APPROVAL

APPROVED

DESIGN  
DATE

LAST |  
UPD

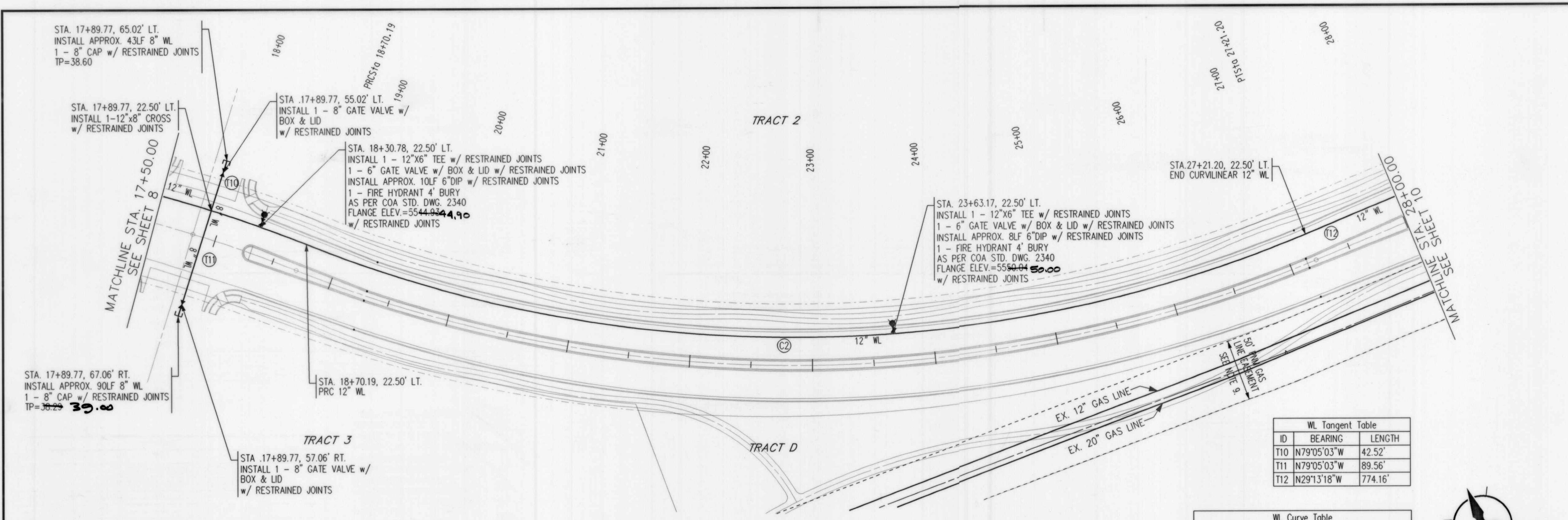
**CITY ENGINEER**

CT NO. ZONE MAP NO.

617684 B-8-Z

Digitized by srujanika@gmail.com

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## VENTANA WEST PARKWAY STA 17+50.00 - 28+00.00



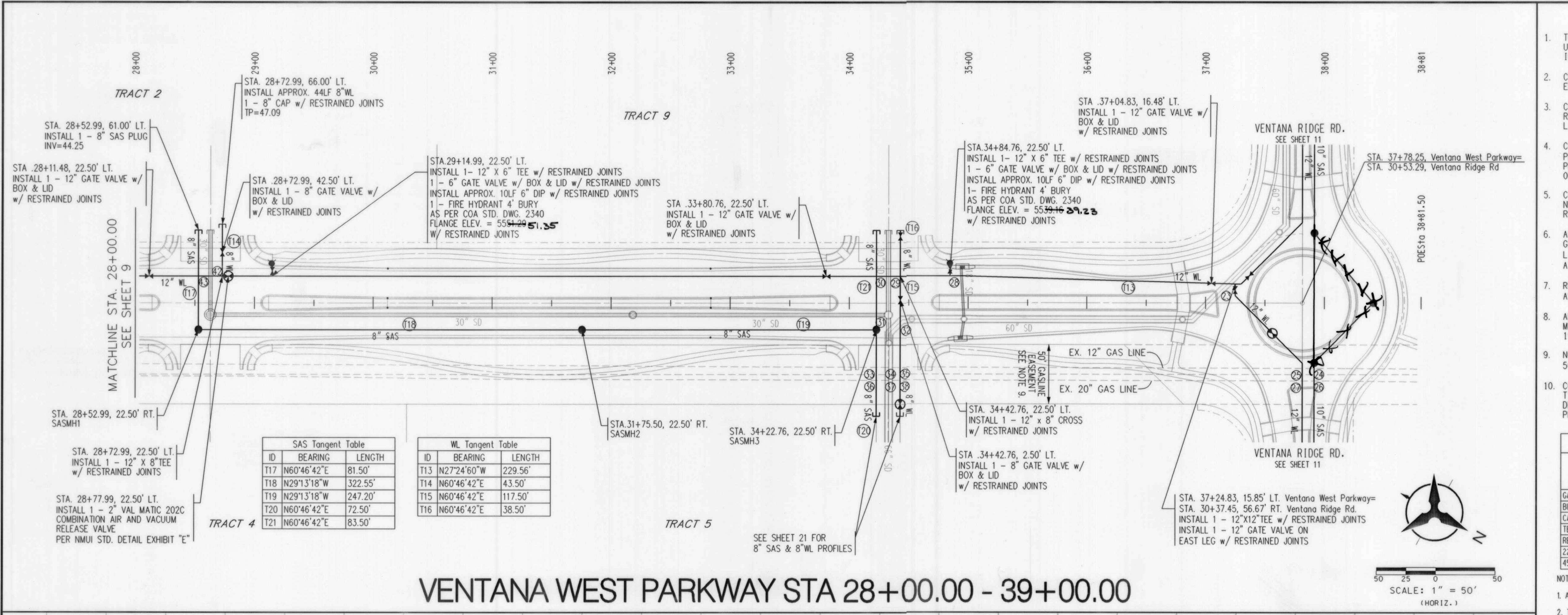
AS-BUILT INFORMATION	
CONTRACTOR	Sundance
WORK STARTED BY	AIS
FIELD ACCEPTANCE BY	
DATE	7/05
DRAWN BY	
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO.	

RESTRAINING JOINT TABLE	
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS
	20" DIP 12" PVC 8" PVC
GATE/AIR RELEASE VALVE	N/A 65' 65'
BUTTERFLY/AIR RELEASE VALVE	55' N/A N/A
CAP	55' 65' 65'
TEE	14' 18' -
REDUCER	35' - -
22.5° HORIZONTAL BEND	- 6' 4'
45° HORIZONTAL BEND	- 11' -

NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF 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.
5. RESTRAINED LENGTHS FOR REDUCERS ARE FOR THE LARGE SIDE.
6. RESTRAINED LENGTHS FOR VERTICAL BENDS ARE SHOWN IN PROFILE.

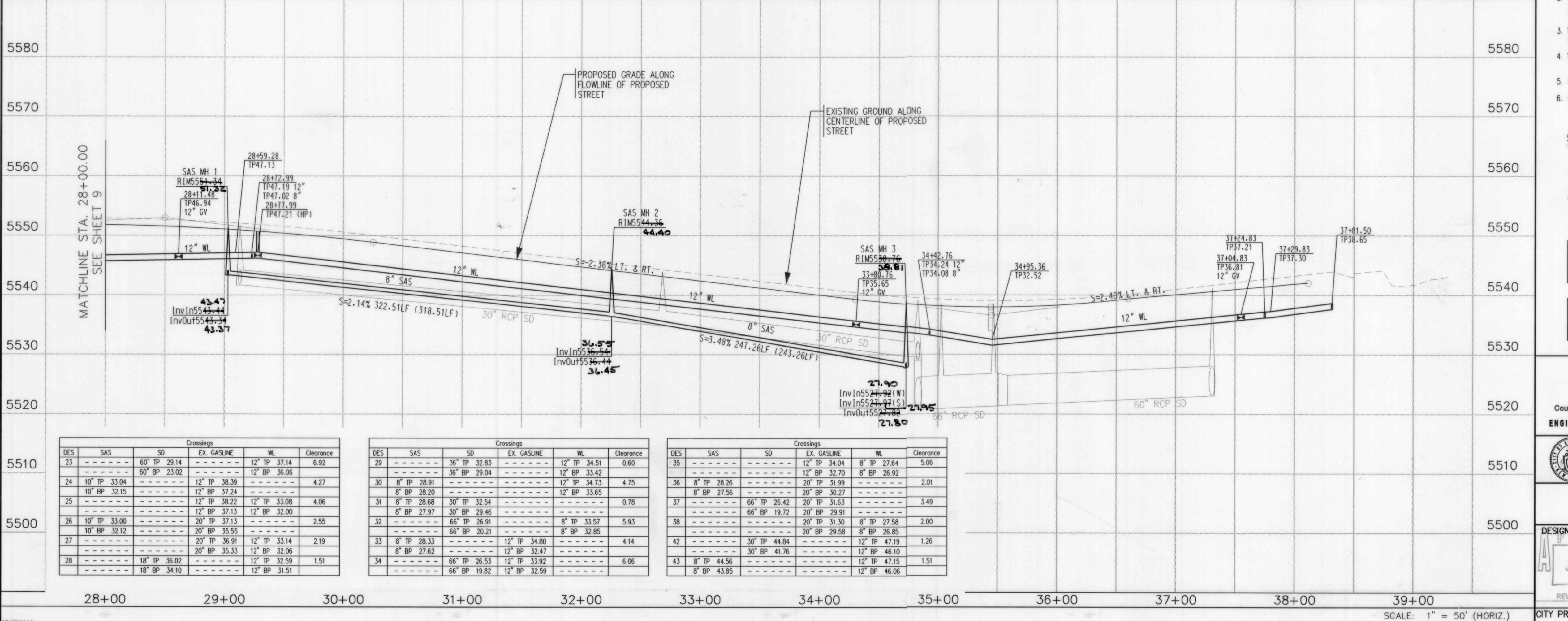
GENERAL NOTE: <b>"ALL SANITARY SEWER MANHOLES SHALL BE 4' DIAMETER TYPE "E" AS PER NM APWA STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED."</b>	
APPROVED BY PNM	DATE
<i>[Signature]</i>	<i>[Signature]</i>
REVISIONS	BY
DESIGN	DATE
APPROVED BY KGP	DATE
DRAWN BY BS/ARR	DATE
CHECKED BY KGP	DATE

Bohannan Huston	
Courtney I 7500 Jefferson St. NE Albuquerque, NM 87109-4335	
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
BACKBONE WATER & SANITARY SEWER IMPROVEMENTS UTILITY PLAN & PROFILE VENTANA WEST PARKWAY 17+50.00 - 28+00.00	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
<b>APPROVED</b> A JUN 22 2004 DESIGN REVIEW COMMITTEE	<b>JUL 23 2004</b> A CITY ENGINEER
LAST DESIGN UPDATE	MO./DAY/YR.
	MO./DAY/YR.



## VENTANA WEST PARKWAY STA 28+00.00 - 39+00.00

SCALE: 1" = 50'  
(HORIZ.)

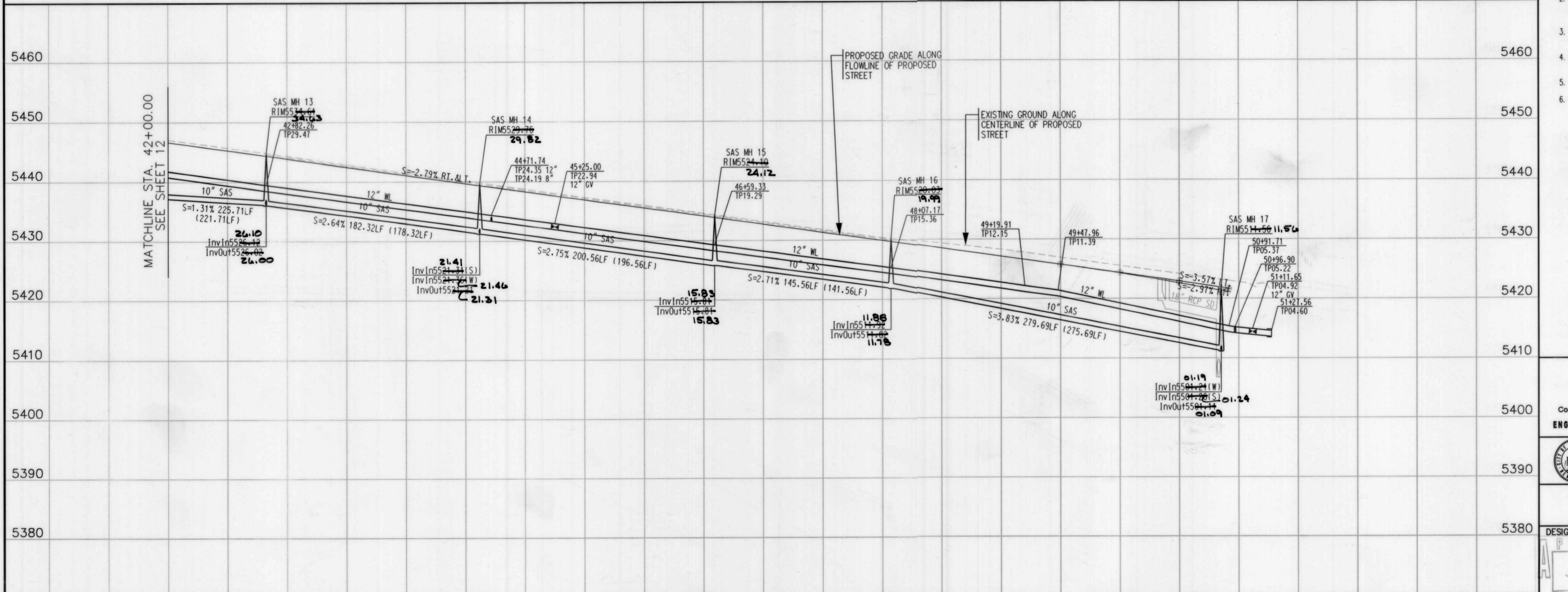








## VENTANA RIDGE ROAD STA. 42+00.00 TO 52+00.00



### NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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.
- 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 & 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 (SAW CUT ONLY).
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- NO WORK SHALL BE TAKEN WITHIN EXISTING 50' GASLINE EASEMENT WITHOUT FIRST CONTACTING PNM.
- CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES ON PASEO DEL NORTE. THE USE OF AN UNPAVED DETOUR FOR UP TO TWO DAYS WILL BE ALLOWED WITH PROPER BARRICADING.

RESTRAINING JOINT TABLE	
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS
20" DIP 12" PVC B" PVC	20"
GATE/AIR RELEASE VALVE	N/A
BUTTERFLY/AIR RELEASE VALVE	55'
CAP	55'
TEE	14'
REDUCER	35'
22.5° HORIZ. BEND	6'
45° HORIZ. BEND	11'

- NOTE:  
 1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.  
 2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FOR ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF 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 MAN TO THE FIRE HYDRANT FLANGE.  
 5. RESTRAINED LENGTHS FOR REDUCERS ARE FOR THE LARGE SIDE.  
 6. RESTRAINED LENGTHS FOR VERTICAL BENDS ARE SHOWN IN PROFILE.

BENCH MARKS		AS-BUILT INFORMATION	
FIELD NOTES	DATE	CONTRACTOR	Sundance
ACS BRASS TABLET STAMPED 2-10 1980'		WORKED BY	
GEOPHYSICAL POSITION (NAD 1927)		INSPECTOR'S ACCEPTANCE BY	
N.M. STATE PLANE COORDINATES		DATE	7/25
(CENTRAL ZONE)		FIELD	
X=357.543.73 Y=1.527.976.48		CORRECTED BY	
GROUND-TO-GRID FACTOR = 99966354		MICRO-FILM INFORMATION	
DELTA ALPHA -001630°		RECORDED BY	
NGVD 1929 ELEVATION = 5429.35		NO.	

GENERAL NOTE:	BY
*ALL SANITARY SEWER MANHOLES SHALL BE 4" DIAMETER TYPE "E" AS PER NM APWA STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.	
*STORM DRAIN AND ROADWAY SHOWN FOR REFERENCE ONLY. FOR CONSTRUCTION INFORMATION SEE C.O.A. PROJECT # 617683	

REVISIONS	REMARKS

APPROVED BY *[Signature]* DATE *[Signature]* DATE

**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

BACKBONE WATER & SANITARY SEWER IMPROVEMENTS  
UTILITY PLAN & PROFILE

VENTANA RIDGE ROAD STA 42+00.00 - 52+00.00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE
JUN 22 2004 DESIGN REVIEW COMMITTEE	JUL 23 2004 CITY ENGINEER	

CITY PROJECT NO. 617684 ZONE MAP NO. B-8-Z SHEET 13 OF 22

STALL A 4  
CH SANIT  
SIBLE FO

VIDE THE INSPECTORS, (CIT)  
POSED HYDROSTATIC TESTING  
BE APPROVED BEFORE TESTI

EQUIPMENT AND VEHICLES AS  
NORMAL ACTIVITIES OF  
CONTRACTORS ON SITE.

NDUITS, LANDSCAPING, UTILITIES  
CONSTRUCTION SHALL BE REPLACED  
EXPENSE.

CHING AND SHORING ACTIVITIES  
IN ACCORDANCE WITH OSHA 29 C

**JOINT TABLE**

RESTRAINED JOINTS		
20" DIP	12" PVC	8" PVC
N/A	65'	65'
E 55'	N/A	N/A

14	16	
35'	-	-
-	6'	4'
-	11'	-
25'	-	-

IDE A MINIMUM PIPE LENGTH OF 20 LF FROM  
PIPE JOINTS WITHIN 20 LF OF MJ SHALL BE  
TORS EXPENSE.

RAIN ALL PIPE JOINTS IN THE SPECIFIED  
LE ABOVE. (SEE NOTE 2 ABOVE).

RAIN ALL FIRE HYDRANTS JOINTS FROM  
RE HYDRANT FLANGE.

DUCERS ARE FOR THE LARGE SIDE.

ERTICAL BENDS ARE SHOWN IN PROFILE.

6

**RANCHO UTILITIES DEPT.** DATE

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**HUSTON INC.**

OF ALBUQUERQUE

# **EEERING DEVE WATER & SANITARY**

CITY ENGINEER APPROVAL

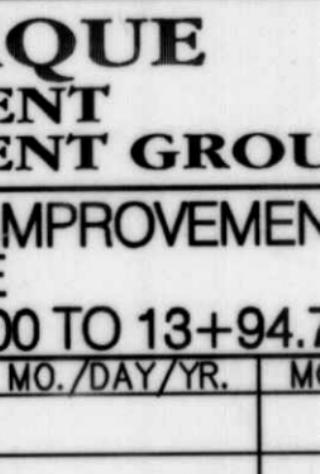
JUL 23 2004

ZONE

34

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
		FIELD NOTES		ACS BRASS TABLET STAMPED "2-B10 1980"		CONTRACTOR <u>Sundance</u>	
NO.	BY	DATE	DATE	WORK STAKED BY <u>AIS</u>	INSPECTOR'S ACCEPTANCE BY	FIELD VERIFICATION BY <u>AIS</u>	DRAWINGS CORRECTED BY <u>AIS</u>
				N.M. STATE PLANE COORDINATES (CENTRAL ZONE)			
				X= 357,543.73 Y= 1,527,976.48			
NO.	DATE	REMARKS	REVISIONS				







## NOTES

FIELD VERIFY ALL EXISTING  
D NOTIFY THE ENGINEER  
Y DISCREPANCIES.

TALL A 4" X 4" X 5' POST AND  
CH SANITARY SEWER SERVICE.

SIBLE FOR REPAIR AND/OR  
TILITY CONDUITS AND EXISTING

VIDE THE INSPECTORS, (CITY AND  
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BE APPROVED BEFORE TESTING

K EQUIPMENT AND VEHICLES AS  
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NDUITS, LANDSCAPING, UTILITY  
CONSTRUCTION SHALL BE REPLACED  
EXPENSE.

ING CURB AND GUTTER SHALL BE  
2415 (SAWCUT ONLY).

CHING AND SHORING ACTIVITIES  
IN ACCORDANCE WITH OSHA 29 CFR

ER TAKEN WITHIN EXISTING  
WITHOUT FIRST CONTACTING PNM.

ITAIN TWO-WAY TRAFFIC AT ALL  
HORTE. THE USE OF AN UNPAVED  
D DAYS WILL BE ALLOWED WITH

### JOINT TABLE

LENGTH OF RESTRAINED JOINTS		
20" DIP	12" PVC	8" PVC
N/A	65'	65'
55'	N/A	N/A
55'	65'	65'
14'	18'	-
35'	-	-
-	6'	4'
-	11'	-

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DVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM  
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CTORS EXPENSE.

TRAIN ALL PIPE JOINTS IN THE SPECIFIED  
BLE ABOVE. (SEE NOTE 2 ABOVE).

TRAIN ALL FIRE HYDRANTS JOINTS FROM THE  
IRE HYDRANT FLANGE.

REDUCERS ARE FOR THE LARGE SIDE.

VERTICAL BENDS ARE SHOWN IN PROFILE.

DATE

DATE

C-T-09

DATE

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
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CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

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34	ZONE MAP NO.	B-8-Z	SHEET	16

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CITY ENGINEER				
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34	ZONE MAP NO.	B-8-Z	SHEET	16

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34	ZONE MAP NO.	B-8-Z	SHEET	16

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CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

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34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
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34	ZONE MAP NO.	B-8-Z	SHEET	16

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34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
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34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

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JUL 23 2004				
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34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
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34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
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JUL 23 2004				
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JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 2004				
CITY ENGINEER				
34	ZONE MAP NO.	B-8-Z	SHEET	16

CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	MO./DAY/YR.	MC
JUL 23 200				

### NOTES

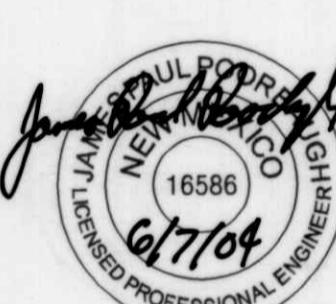
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- REMOVAL OF THE EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- NO WORK SHALL BE UNDER TAKEN WITHIN EXISTING 50' GASLINE EASEMENT WITHOUT FIRST CONTACTING PNM.
- CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES ON PASEO DEL NORTE. THE USE OF AN UNPAVED DETOUR FOR UP TO TWO DAYS WILL BE ALLOWED WITH PROPER BARRICADING.

BENCH MARKS		AS-BUILT INFORMATION	
		CONTRACTOR <i>Sundance</i>	
		INSPECTOR'S ACCEPTANCE BY	DATE <i>7/25</i>
FIELD NUMBER	MARK NUMBER	FIELD NUMBER	MARK NUMBER
(CENTRAL ZONE)	X=357.543.73 Y=1,527.976.48	GEODETIC COORDINATES	DATE <i>7/25</i>
	GROUNDO-TO-GRID FACTOR = 99966354	RECORDED BY	DATE <i>7/25</i>
	DELTA ALPHA -0°16'30"	RECORDED BY	DATE <i>7/25</i>
	NOVO 1929 ELEVATION = 5429.35	RECORDED BY	DATE <i>7/25</i>

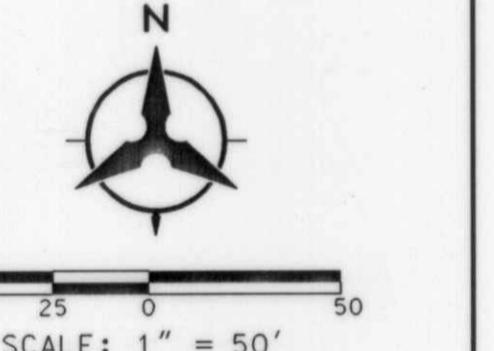
RESTRAINING JOINT TABLE	
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS
20" DIP 12" PVC B" PVC	20'
GATE/AIR RELEASE VALVE	N/A 65' 65'
BUTTERFLY/AIR RELEASE VALVE	55' N/A N/A
CAP	55' 65' 65'
TEE	14' 18' -
REDUCER	35' - -
22.5° HORIZ. BEND	- 6' 4'
45° HORIZ. BEND	- 11' -

NOTE:

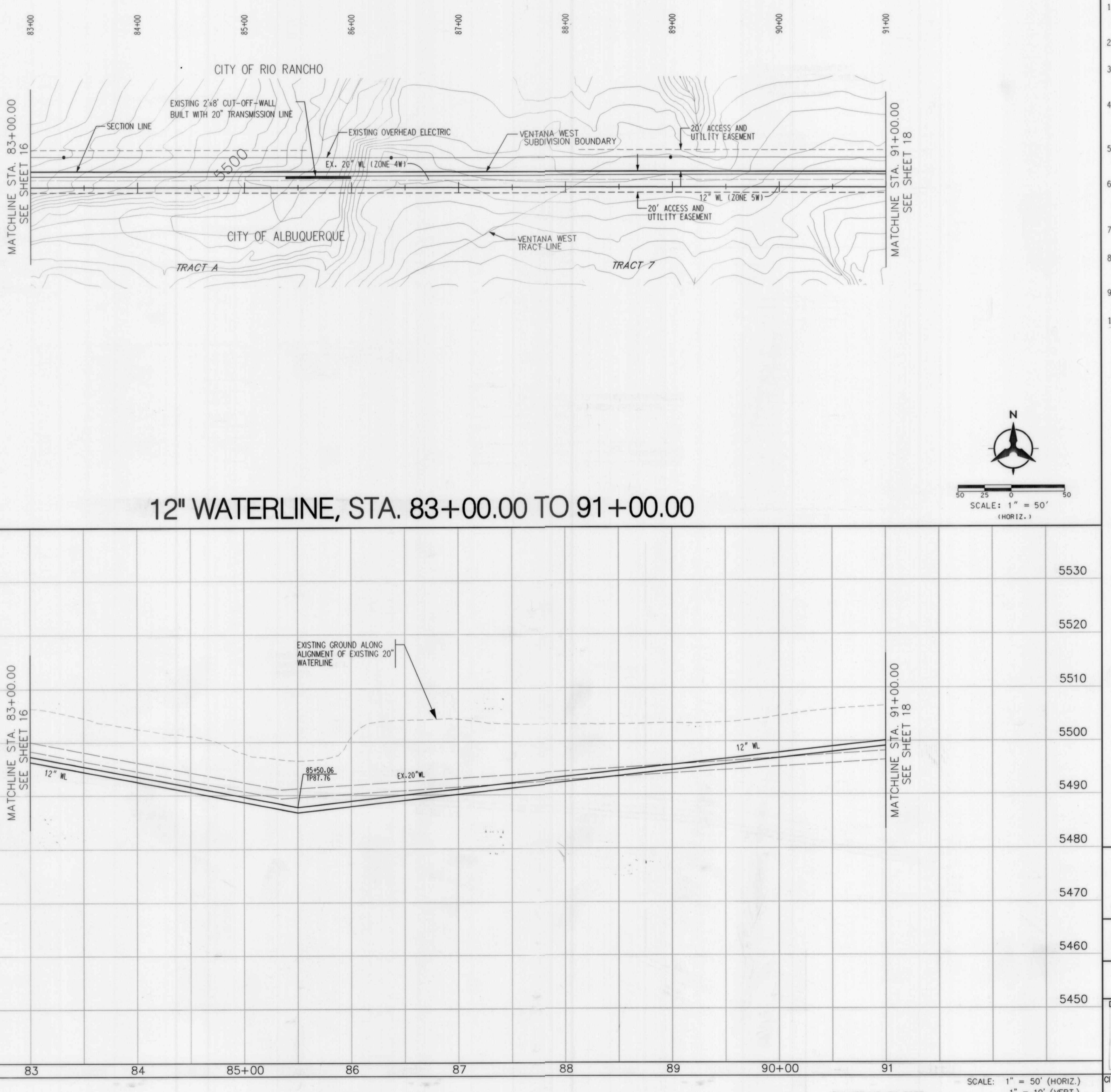
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- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE).
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE TEE ON THE MAN TO THE FIRE HYDRANT FLANGE.
- RESTRAINED LENGTHS FOR REDUCERS ARE FOR THE LARGE SIDE.
- RESTRAINED LENGTHS FOR VERTICAL BENDS ARE SHOWN IN PROFILE.



### 12" WATERLINE, STA. 83+00.00 TO 91+00.00



SCALE: 1" = 50'  
(HORIZ.)



**Bohannan Huston**

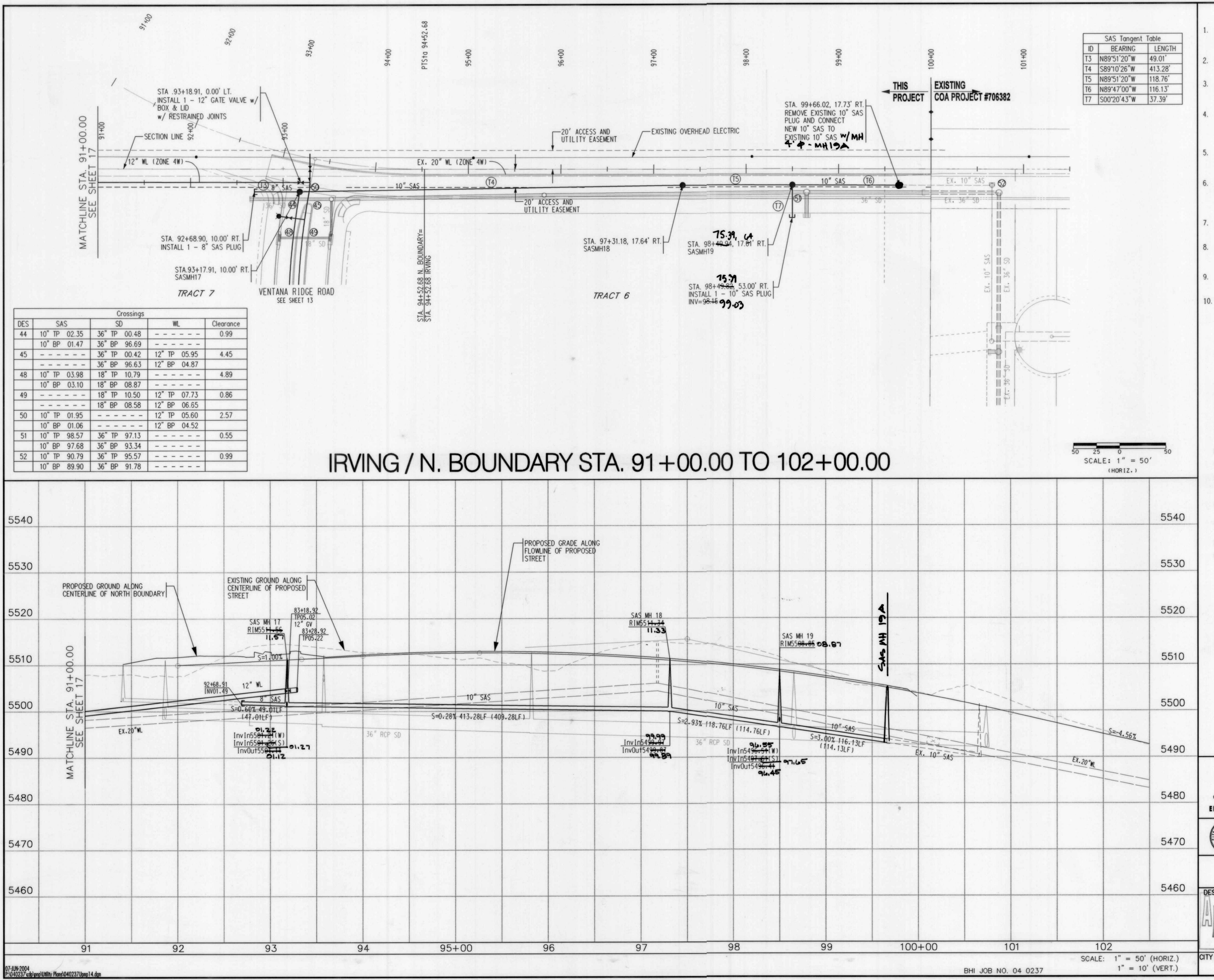
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335  
ENGINEERING □ SPATIAL DATA □ ADVANCED TECHNOLOGIES

**CITY OF ALBUQUERQUE**  
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING DEVELOPMENT GROUP**

BACKBONE WATER & SANITARY SEWER IMPROVEMENTS  
UTILITY PLAN & PROFILE

12" WATERLINE 83+00 TO 91+00

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
JUN 22 2004 DESIGN REVIEW COMMITTEE	JUL 23 2004 CITY ENGINEER APPROVAL		



SAS Tangent Table	
BEARING	LENGTH
N89°51'20" W	49.01'
S89°10'26" W	413.28'
N89°51'20" W	118.76'
N89°47'00" W	116.13'
S00°20'43" W	37.39'

- NOTES**

E CONTRACTOR SHALL FIELD VERIFY ALL EXISTING  
ILITY LOCATIONS AND NOTIFY THE ENGINEER  
EDIATELY OF ANY DISCREPANCIES.

TRACTOR IS TO INSTALL A 4" X 4" X 5' POST AND  
D AT THE END OF EACH SANITARY SEWER SERVICE.

TRACTOR IS RESPONSIBLE FOR REPAIR AND/OR  
PLACEMENT OF ALL UTILITY CONDUITS AND EXISTING  
NES.

TRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND  
IVATE) WITH THE PROPOSED HYDROSTATIC TESTING  
AN. THE PLAN MUST BE APPROVED BEFORE TESTING  
ERATIONS BEGIN.

TRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS  
T TO INTERFERE WITH NORMAL ACTIVITIES OF  
SIDENTS OR OTHER CONTRACTORS ON SITE.

Y DAMAGE TO THE EXISTING FACILITIES (CURB &  
UTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY  
NES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED  
THE CONTRACTORS' EXPENSE.

MOVAL OF THE EXISTING CURB AND GUTTER SHALL BE  
PER COA STD. DWG. 2415 (SAWCUT ONLY).

L EXCAVATION, TRENCHING AND SHORING ACTIVITIES  
ST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR  
26.650 SUBPART P.

WORK SHALL BE UNDER TAKEN WITHIN EXISTING  
' GASLINE EASEMENT WITHOUT FIRST CONTACTING PNM.

TRACTOR MUST MAINTAIN TWO-WAY TRAFFIC AT ALL  
MES ON PASEO DEL NORTE. THE USE OF AN UNPAVED  
TOUR FOR UP TO TWO DAYS WILL BE ALLOWED WITH  
OPER BARRICADING.

BENCH MARKS

AS-BUILT INFORMATION

RESTRAINING JOINT TABLE				
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS			
	20" DIP	12" PVC	8" PVC	
TE/AIR RELEASE VALVE	N/A	65'	65'	
ITTERFLY/AIR RELEASE VALVE	55'	N/A	N/A	
P	55'	65'	65'	
E	14'	18'	-	
DUCTOR	35'	-	-	
.5° HORIZ. BEND	-	6'	4'	
° HORIZ. BEND	-	11'	-	

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- RESTRAINED LENGTHS FOR REDUCERS ARE FOR THE LARGE SIDE.
- RESTRAINED LENGTHS FOR VERTICAL BENDS ARE SHOWN IN PROFILE

**GENERAL NOTE:**  
**ALL SANITARY SEWER MANHOLES SHALL BE  
4' DIAMETER TYPE "E" AS PER NM APWA  
STANDARD DRAWING 2102  
UNLESS OTHERWISE NOTED.**

**STORM DRAIN AND ROADWAY SHOWN  
FOR REFERENCE ONLY. FOR CONSTRUCTION  
INFORMATION SEE C.O.A. PROJECT # 617683**

**Bohannan ▲ Huston**

**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP**

**BACKBONE WATER & SANITARY SEWER IMPROVEMENTS  
UTILITY PLAN & PROFILE**

**IRVING / N. BOUNDARY STA 91+00 TO 102+00**

**REVIEW COMMITTEE APPROVAL**

DESIGN DATE

JUN 22 2000 10:00 AM  
FBI ENGINEER  
LAST 1  
UPD

**CITY ENGINEER**

PROJECT NO. 617224 ZONE MAP NO. D-27 SHEET 12 OF

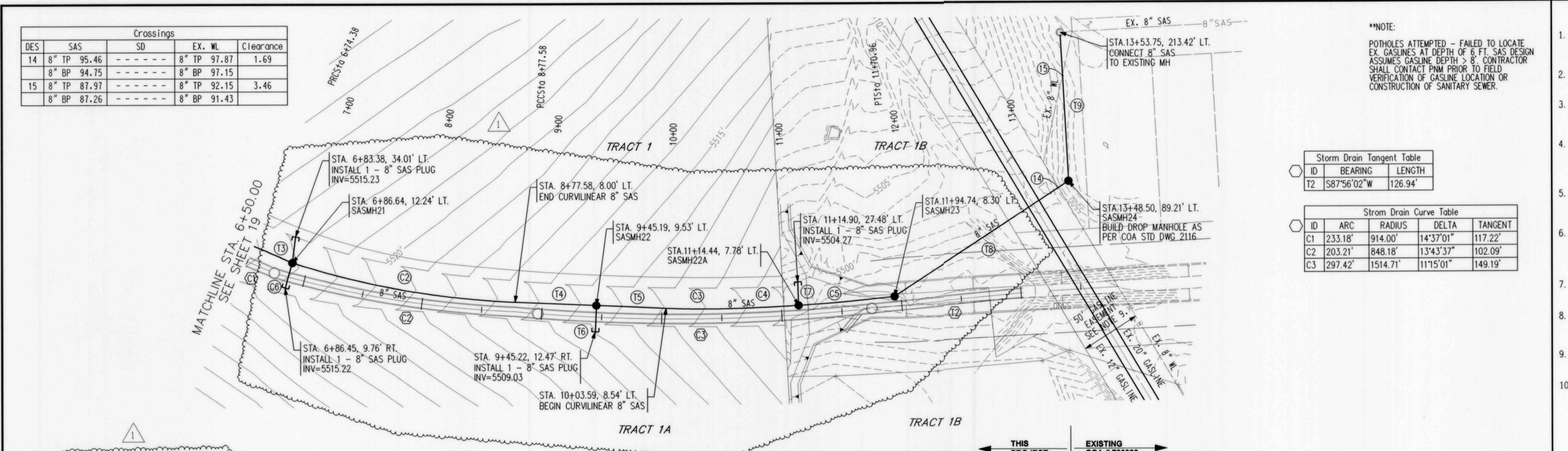
617684 B-8-Z 18

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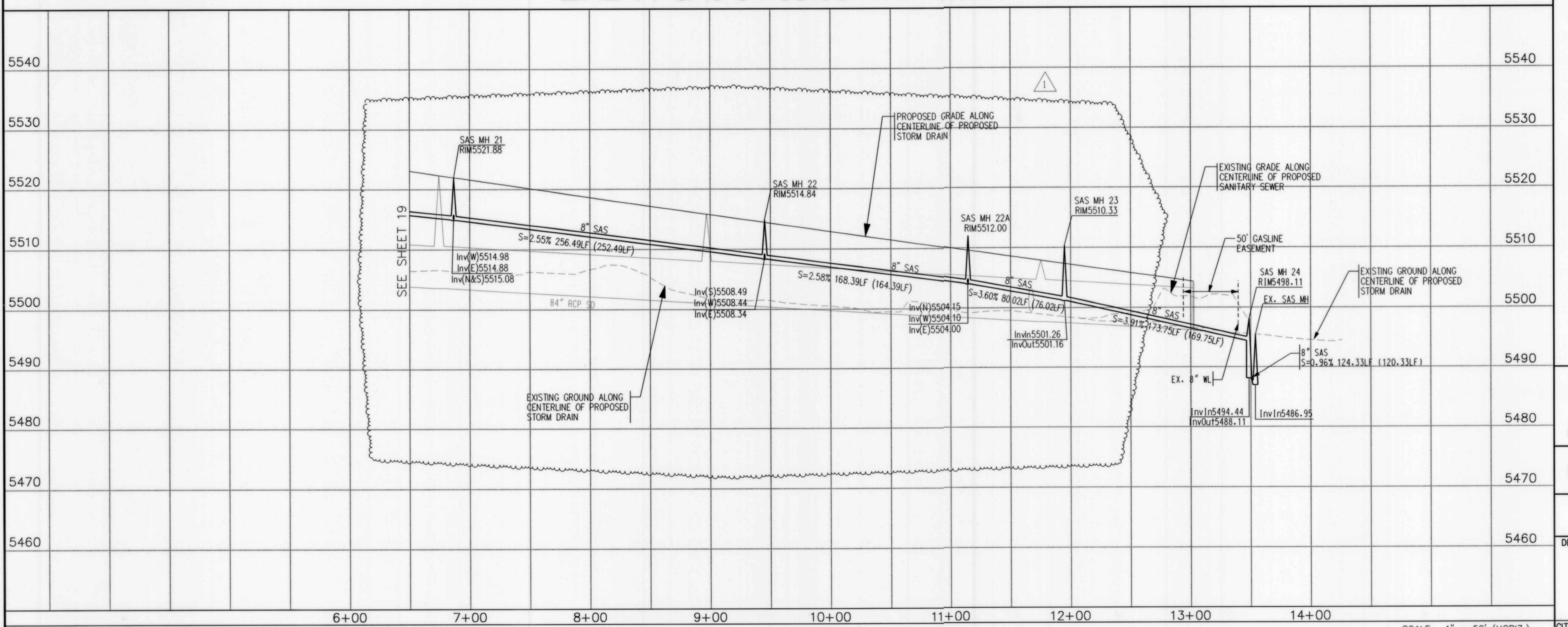
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LINE "A" SAS 6+50.00 - 11+82.61



26-JUL-2005 -  
P:\040237\cdp\pnp\Utility Plans\040237Upnp16 Rev.dgn

BHI JOB NO. 04 0237

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

## NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

CONTRACTOR IS TO INSTALL A 4" X 4" X 5' 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.

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 & 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).

ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

NO WORK SHALL BE UNDER TAKEN WITHIN EXISTING 50' GASLINE EASEMENT WITHOUT FIRST CONTACTING PNM.

CONTRACTOR MUST MAINTAIN TWO-WAY TRAFFIC AT ALL TIMES ON PASEO DEL NORTE. THE USE OF AN UNPAVED DETOUR FOR UP TO TWO DAYS WILL BE ALLOWED WITH PROPER BARRICADING

RESTRAINING JOINT TABLE				
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS			
	20" DIP	12" PVC	8" PVC	
TE/AIR RELEASE VALVE	N/A	65'	65'	
TERFLY/AIR RELEASE VALVE	55'	N/A	N/A	
	55'	65'	65'	
E	14'	18'	-	
UCER	35'	-	-	
5° HORIZ. BEND	-	6'	4'	
HORIZ. BEND	-	11'	-	

OTE:

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**UNLESS OTHERWISE NOTED.**

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[View all reviews](#)

APPROVED BY PNM \_\_\_\_\_ DATE \_\_\_\_\_

**Bohanan ▲ Huston, Inc.**

**Engineering ▲ Spatial Data ▲ Advanced Technologies**



# **CITY OF ALBUQUERQUE**

## **PUBLIC WORKS DEPARTMENT**

### **ENGINEERING DEVELOPMENT**

# **BACKBONE WATER & SANITARY SEWAGE UTILITY PLAN & PROPERTY**

LINE "A" SASSIA 6+50.00 -

DESIGN  
DATE

LAST  
PAGE

PROJECT NO. \_\_\_\_\_ ZONE MAP NO. \_\_\_\_\_

617684

BENCH MARKS	ACS BRASS TABLET STAMPED "2-B10 1980"	AS-BUILT INFORMATION
GEOGRAPHIC POSITION (NAD 1927)	CONTRACTOR WORK STAKED BY	INSPECTOR'S ACCEPTANCE BY DATE
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)	FIELD VERIFICATION BY	DRAWINGS CORRECTED BY DATE
X=357.543.73 Y=1.527.976.48	MICRO-FILM INFORMATION	RECORDED BY DATE
GROUND-TO-GRID FACTOR = .99966354	NO.	
DELTA ALPHA -00'16"30"		
NGVD 1929 ELEVATION = 5429.35		

A circular seal for a licensed professional engineer in New Mexico. The outer ring contains the text "NEW MEXICO" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom. The center of the seal features the number "16586" above the date "10-05-04". The entire seal is handwritten over with a large signature.

REMARKS		REVISIONS		DESIGN	
DATE	REPLACEMENT SHEET	DATE	REMARKS	DATE	REMARKS
/05/04	REPLACEMENT SHEET		REMARKS	DATE	REMARKS
			BY	JP/KGP	3/2004
			BY	BS/ARR	3/2004

10  
NO. □  
DESIGNED BY  
DRAWN BY

**ENT GROUP  
R IMPROVEMENTS  
ILE**

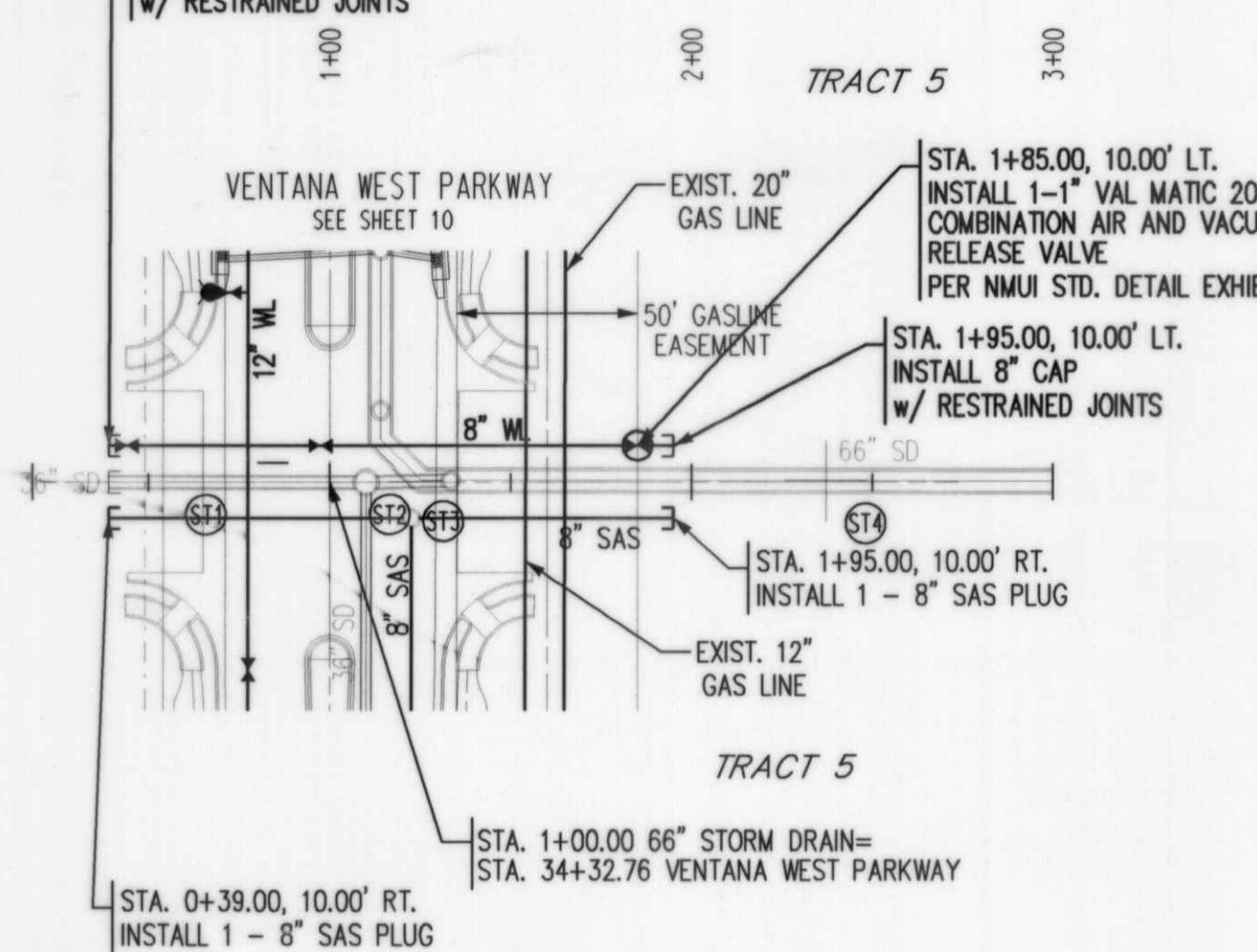
+82.61  
MO./DAY/YR. MO./DAY/YR.


SHEET OF

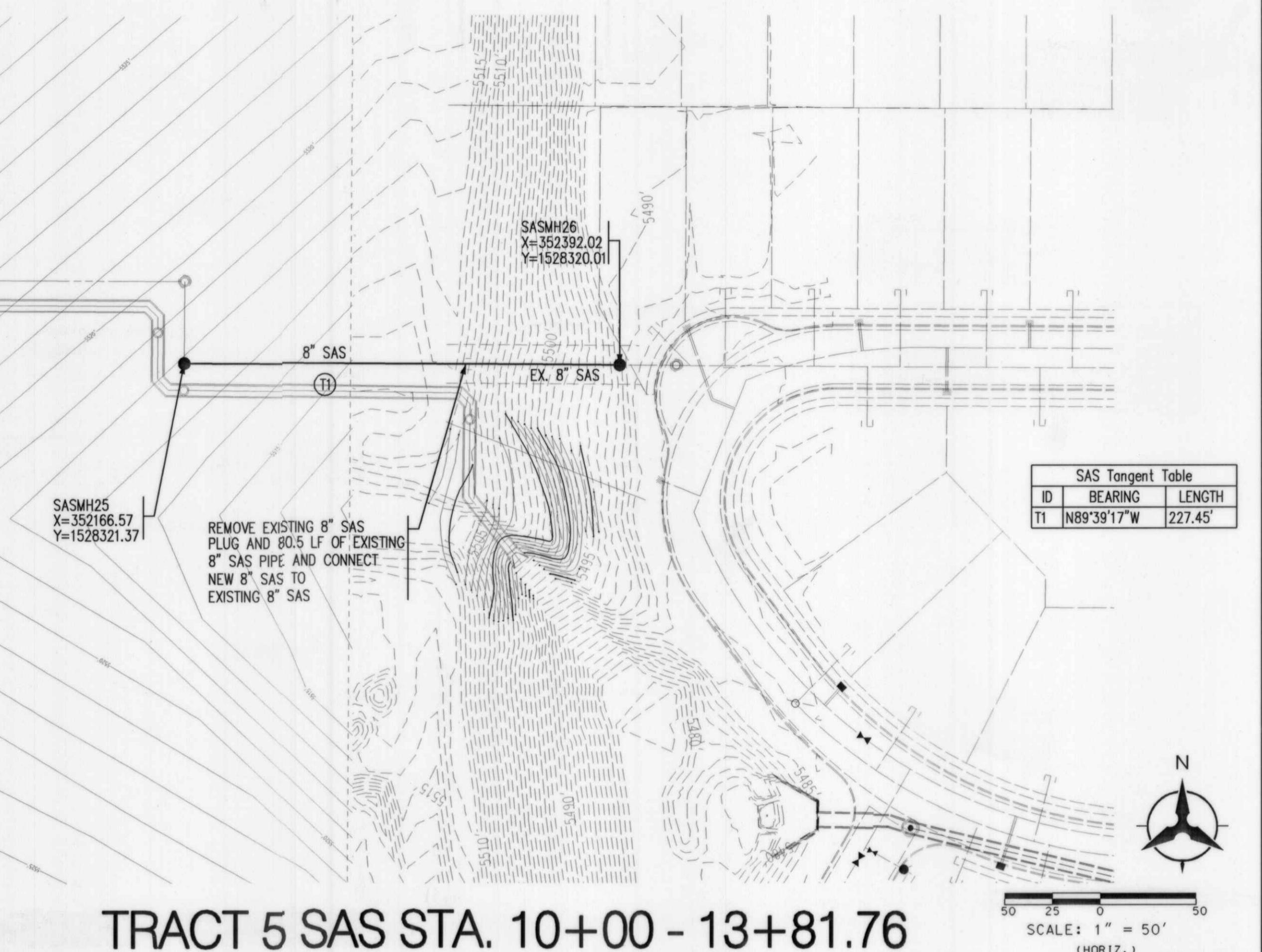
20A 22

STA. 0+39.00, 10.00' LT.  
INSTALL 1-8" GATE VALVE  
w/ BOX & LID  
w/ RESTRAINED JOINTS  
INSTALL 8" CAP  
w/ RESTRAINED JOINTS

Tangent Table		
ID	BEARING	LENGTH
S11	S60°46'42"W	71.00'
S12	S59°35'19"W	23.32'
S13	S60°54'41"W	8.00'
S14	S60°50'44"W	208.00'



TRACT 5 SAS STA. 0+00 - 3+00

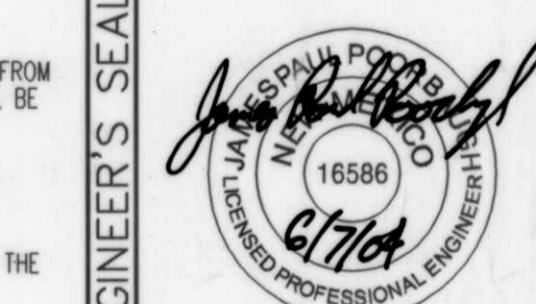


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BUTTERFLY/AIR RELEASE VALVE	55'	N/A N/A
CAP	55'	65' 65'
TEE	14'	18' -
REDUCER	35'	- -
22.5° HORIZ. BEND	-	6' 4'
45° HORIZ. BEND	-	11' -

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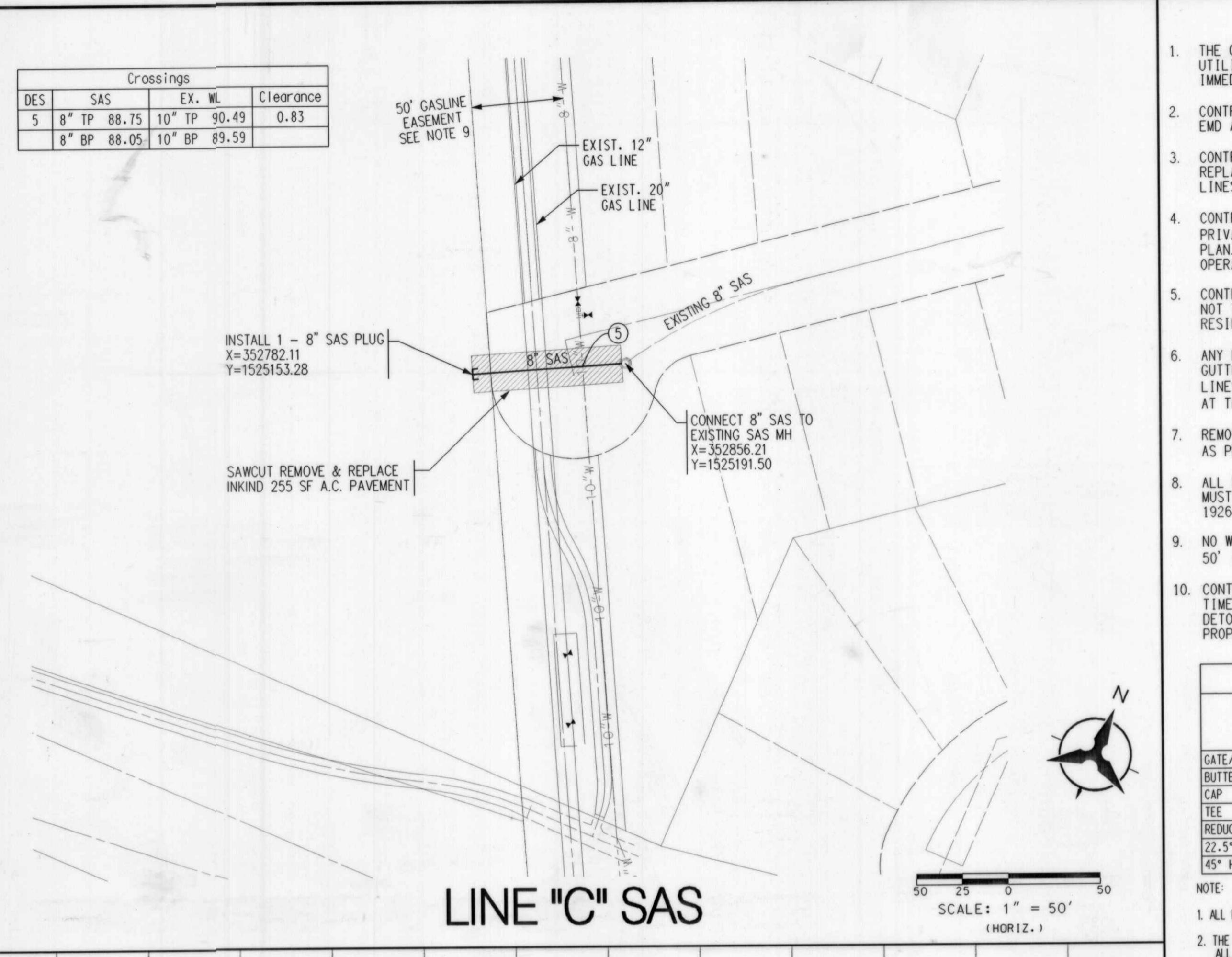
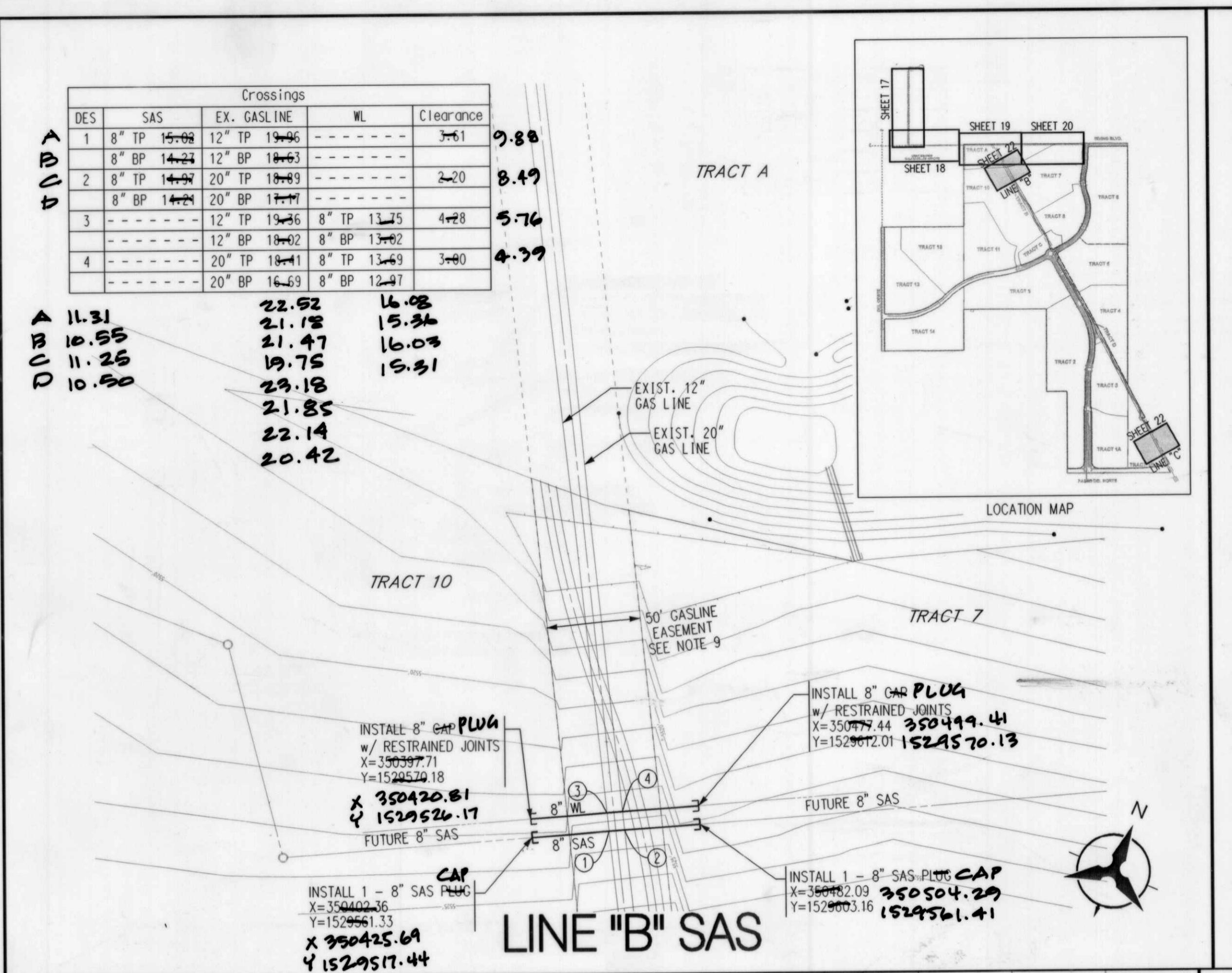


16586

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OCT 2004

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APPROVED BY PNM DATE  
 

**Bohannan Huston, Inc.**

Address: 7500 Jefferson St. NE Albuquerque, NM 87109-4335

**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP**

ECT NO. 617684	ZONE MAP NO. B-8-Z	SHEET 22	OF 22
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