

SCANNED
BY **PLN**

CONSTRUCTION PLANS FOR

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-11503.82 001

DESERT VISTA SUBDIVISION

WATERLINE IMPROVEMENTS

CITY OF ALBUQUERQUE
NEW MEXICO
JANUARY 2005

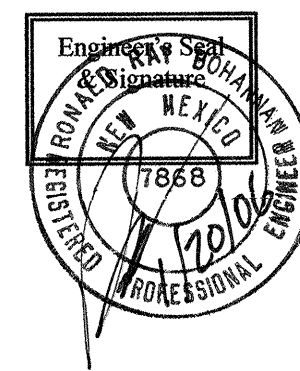
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CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

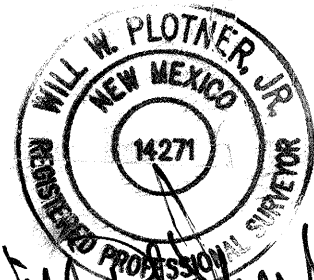
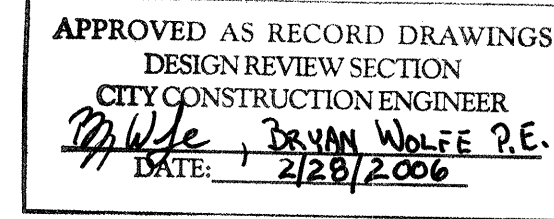
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications 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 with survey information provided by Will Plotner, Jr., of Cartesian Surveys, NMPS number 14271.



SURVEYOR'S CERTIFICATION

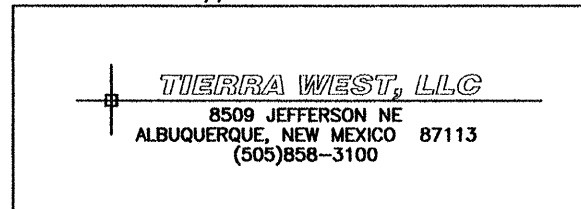
I, WILL PLOTNER JR., A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND 'AS-BUILT' SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT 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. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS.

WILL PLOTNER JR., NMPS 14271



Will K. Plotner Jr.
6/15/05

DRB # 1002473



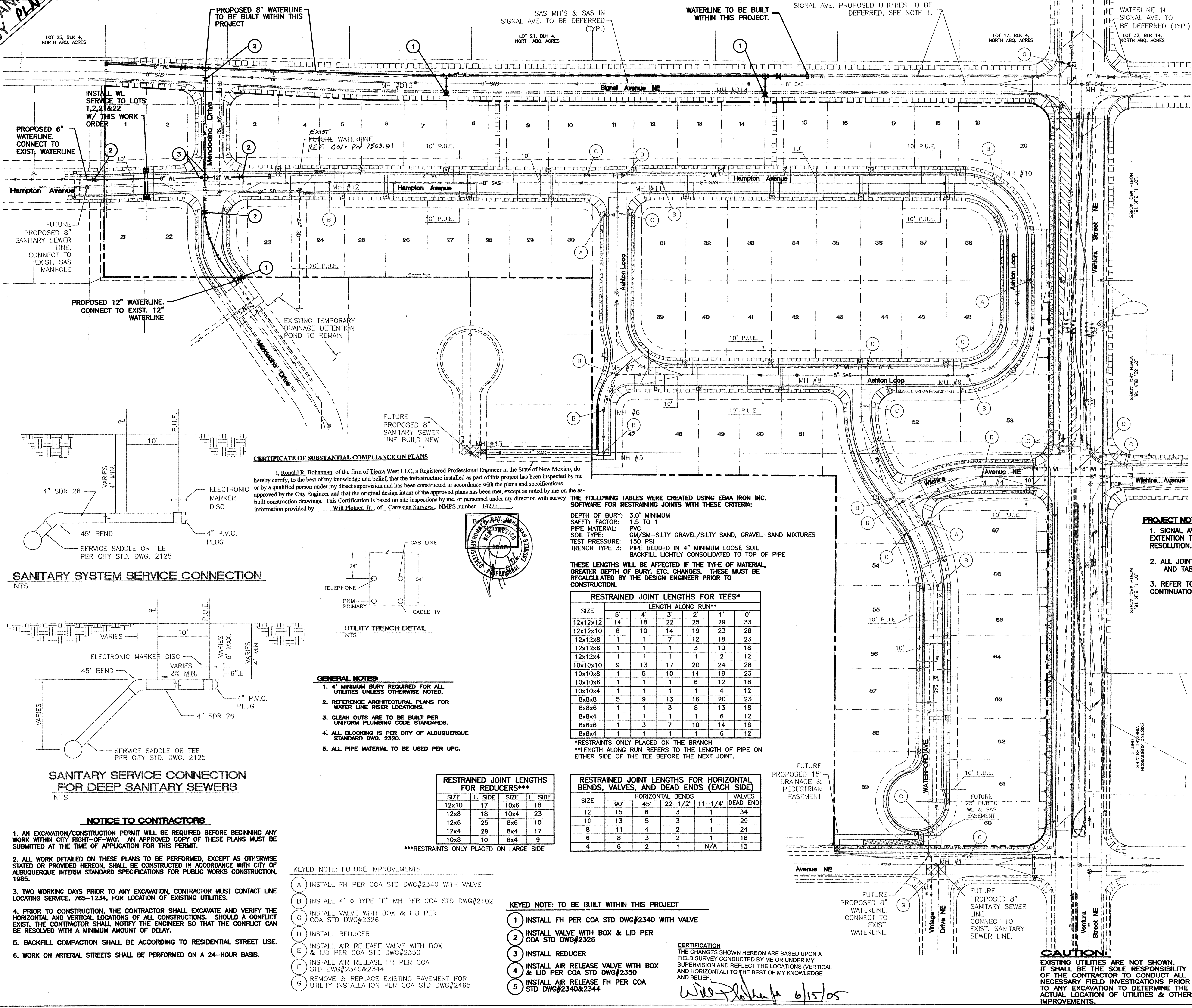
- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE PROJECT ENGINEER.
 - ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☐ IF CURB IS DERESSED 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.

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman	<i>[Signature]</i>	12-08-05	APPROVED FOR CONSTRUCTION		
		Transportation	<i>N/A</i>	2-2-05			
		Water/Wastewater	<i>[Signature]</i>	2/2/05			
		Hydrology	<i>Bradley A. Bingham</i>	2/2/05			
		C.I.P.					
		Constr. Coord.	<i>[Signature]</i>	12-08-05	City Engineer <i>[Signature]</i> Date 3-01-05		
		CITY PROJECT NO.	7503.82		SHEET 1 OF 5		

Elevations are in NGVD 29.

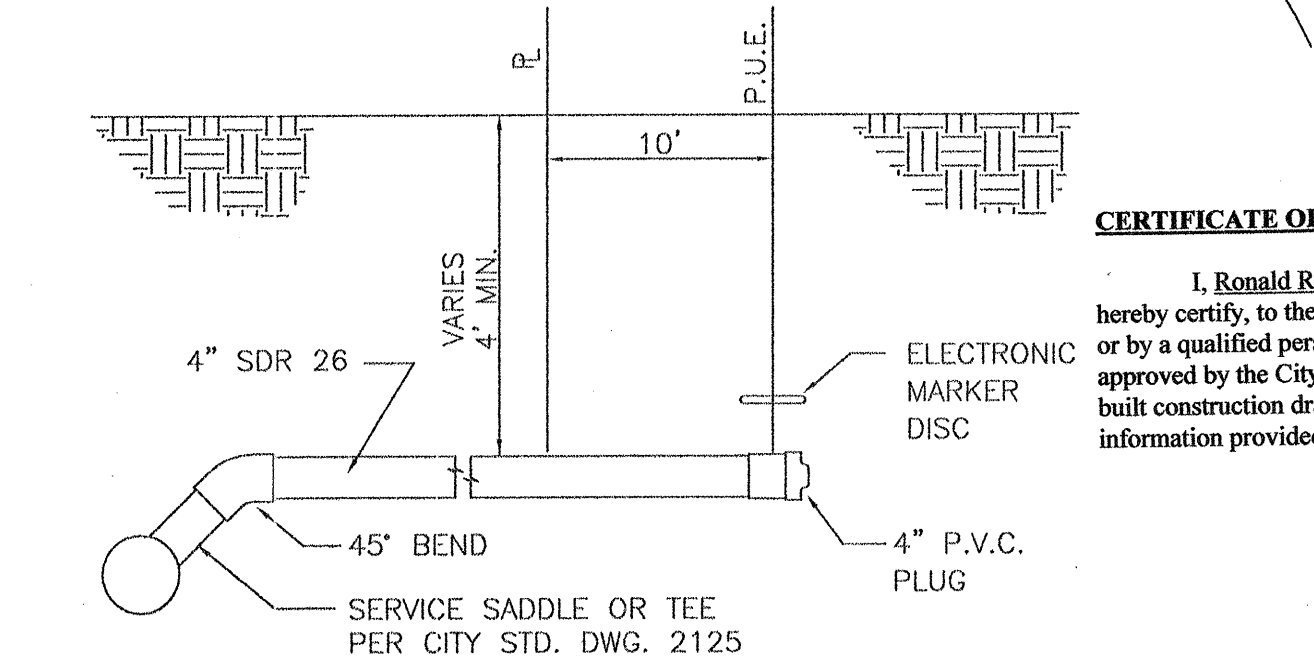
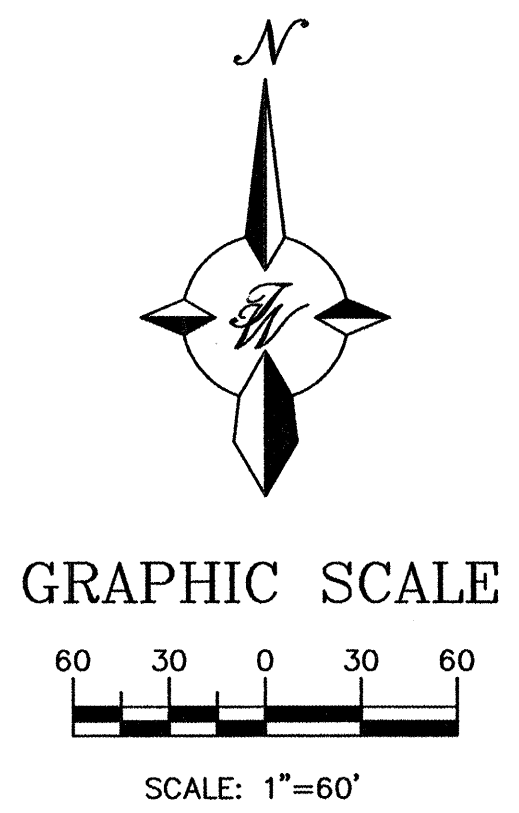
1/220098/2298--title.DWG/MP/11--30--2004

SCANNED BY PLAN

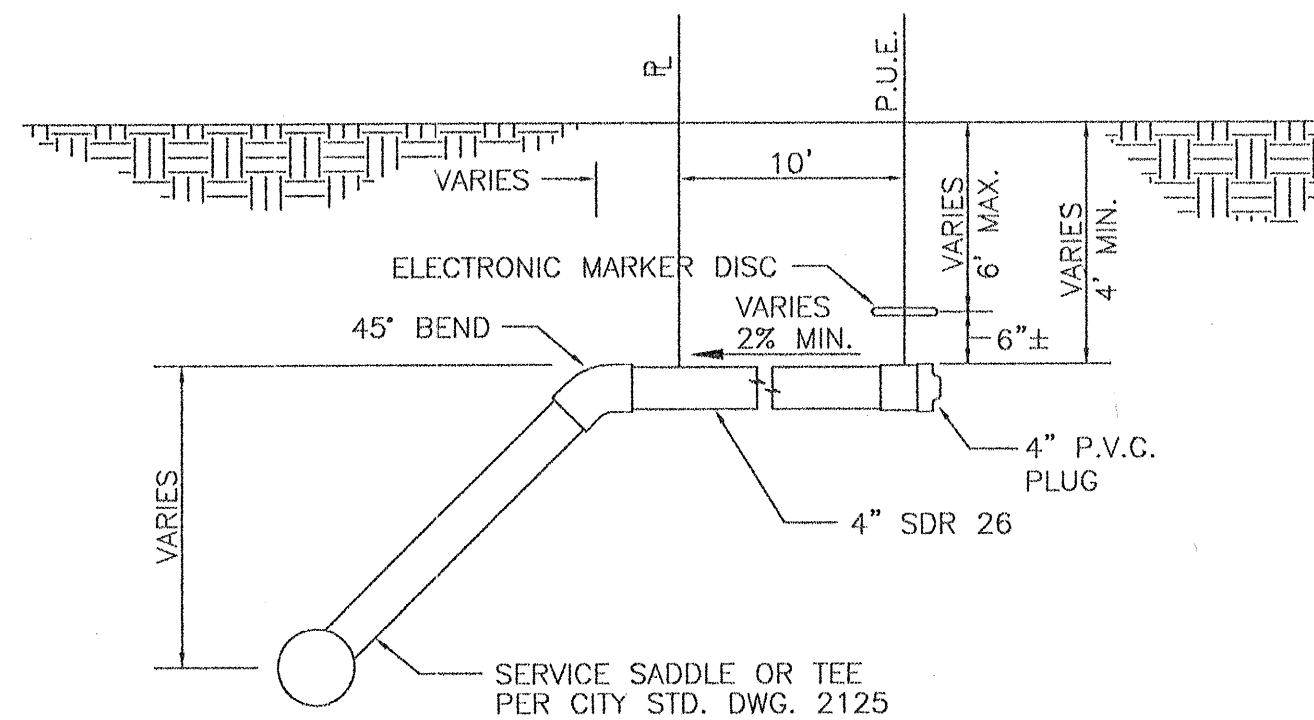


LEGEND	DESCRIPTION
○	EXISTING SAS MANHOLE
—	EXISTING SANITARY SEWER LINE
●	PROPOSED SAS MANHOLE
—	PROPOSED SAS CLEANOUT
→	DIRECTION OF FLOW
—	PROPOSED SANITARY SEWER LINE
—	SANITARY SEWER SERVICE LINE
—	DEFERRED SANITARY SEWER LINE
○	EXISTING METER
—	EXISTING VALVE W/BOX
—	EXISTING FIRE HYDRANT
—	EXISTING AIR RELEASE VALVE
—	EXISTING REDUCER
—	EXISTING WATER LINE
—	PROPOSED METER
—	PROPOSED VALVE W/BOX
—	PROPOSED FIRE HYDRANT
—	PROPOSED REDUCER
—	FUTURE WATER LINE
—	DEFERRED WATER LINE
—	PROPOSED WATER LINE
○	EXISTING STORM SEWER MANHOLE
—	EXISTING STORM SEWER INLET
—	EXISTING STORM SEWER LINE
○	PROPOSED STORM SEWER MANHOLE
—	PROPOSED DBL "A" INLET
—	PROPOSED SINGL. "A" INLET
—	PROPOSED STORM SEWER LINE
—	EXISTING CURB & GUTTER
—	PROPOSED CURB & GUTTER
—	BOUNDARY LINE
—	EXISTING BOUNDARY LINE
—	EASEMENT
—	PROPOSED SIDEWALK
—	FUTURE SIDEWALK
—	CENTERLINE
—	RIGHT-OF-WAY
—	LOT LINES
—	EXISTING LOT LINES
—	SETBACK LINE
—	LANE
—	STRIPING
—	BENCH MARK
—	STREET LIGHTS

PROJECT NOTES:
1. SIGNAL AVENUE N.E. SANITARY SEWER & PARTIAL WATERLINE EXTENSION TO BE DEFERRED PENDING ALAMEDA BLVD. ALIGNMENT RESOLUTION.
2. ALL JOINTS SHALL BE RESTRAINED PER COA STD DWG#2358 AND TABLES SHOWN ON THIS SHEET
3. REFER TO C.O.A. PROJECT NO. 7503.81 FOR SAS, STORM SEWER & CONTINUATION OF WATERLINE.



SANITARY SYSTEM SERVICE CONNECTION
NTS



SANITARY SERVICE CONNECTION
FOR DEEP SANITARY SEWERS
NTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Ronald R. Bohannon, of the firm of Tierra West LLC, 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 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 with survey information provided by Will Plotter, Jr., of Cartesian Surveys, NMPS number 14271.

THE FOLLOWING TABLES WERE CREATED USING EBAA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:
DEPTH OF BURY: 3.0' MINIMUM
SAFETY FACTOR: 1.5 TO 1
PIPE MATERIAL: PVC
SOIL TYPE: GM/SM-SILTY GRAVEL/SILTY SAND, GRAVEL-SAND MIXTURES
TEST PRESSURE: 150 PSI
TRENCH TYPE 3: PIPE BEDDED IN 4" MINIMUM LOOSE SOIL BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE

THESE LENGTHS WILL BE AFFECTED IF THE TYPE OF MATERIAL, GREATER DEPTH OF BURY, ETC. CHANGES. THESE MUST BE RECALCULATED BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION.

SIZE	RESTRAINED JOINT LENGTHS FOR TEES*					
	5'	4'	3'	2'	1'	0'
12x12x12	14	18	22	25	29	33
12x12x10	6	10	14	19	23	28
12x12x8	1	1	7	12	18	23
12x12x6	1	1	1	3	10	18
12x12x4	1	1	1	1	2	12
10x10x10	9	13	17	20	24	28
10x10x8	1	5	10	14	19	23
10x10x6	1	1	1	6	12	18
10x10x4	1	1	1	1	4	12
8x8x8	5	9	13	16	20	23
8x8x6	1	1	3	8	13	18
8x8x4	1	1	1	1	6	12
6x6x6	1	3	7	10	14	18
8x8x4	1	1	1	1	6	12

*RESTRAINTS ONLY PLACED ON THE BRANCH
**LENGTH ALONG RUN REFERS TO THE LENGTH OF PIPE ON EITHER SIDE OF THE TEE BEFORE THE NEXT JOINT.

SIZE	RESTRAINED JOINT LENGTHS FOR REDUCERS***			
	L	SIDE	SIDE	L
12x10	17	10x6	18	
12x8	18	10x4	23	
12x6	25	8x6	10	
12x4	29	8x4	17	
10x8	10	6x4	9	

***RESTRAINTS ONLY PLACED ON LARGE SIDE

SIZE	RESTRAINED JOINT LENGTHS FOR HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)				
	90°	45°	22-1/2°	11-1/4°	VALVES DEAD END
12	15	6	3	1	34
10	13	5	3	1	29
8	11	4	2	1	24
6	8	3	2	1	18
4	6	2	1	N/A	13

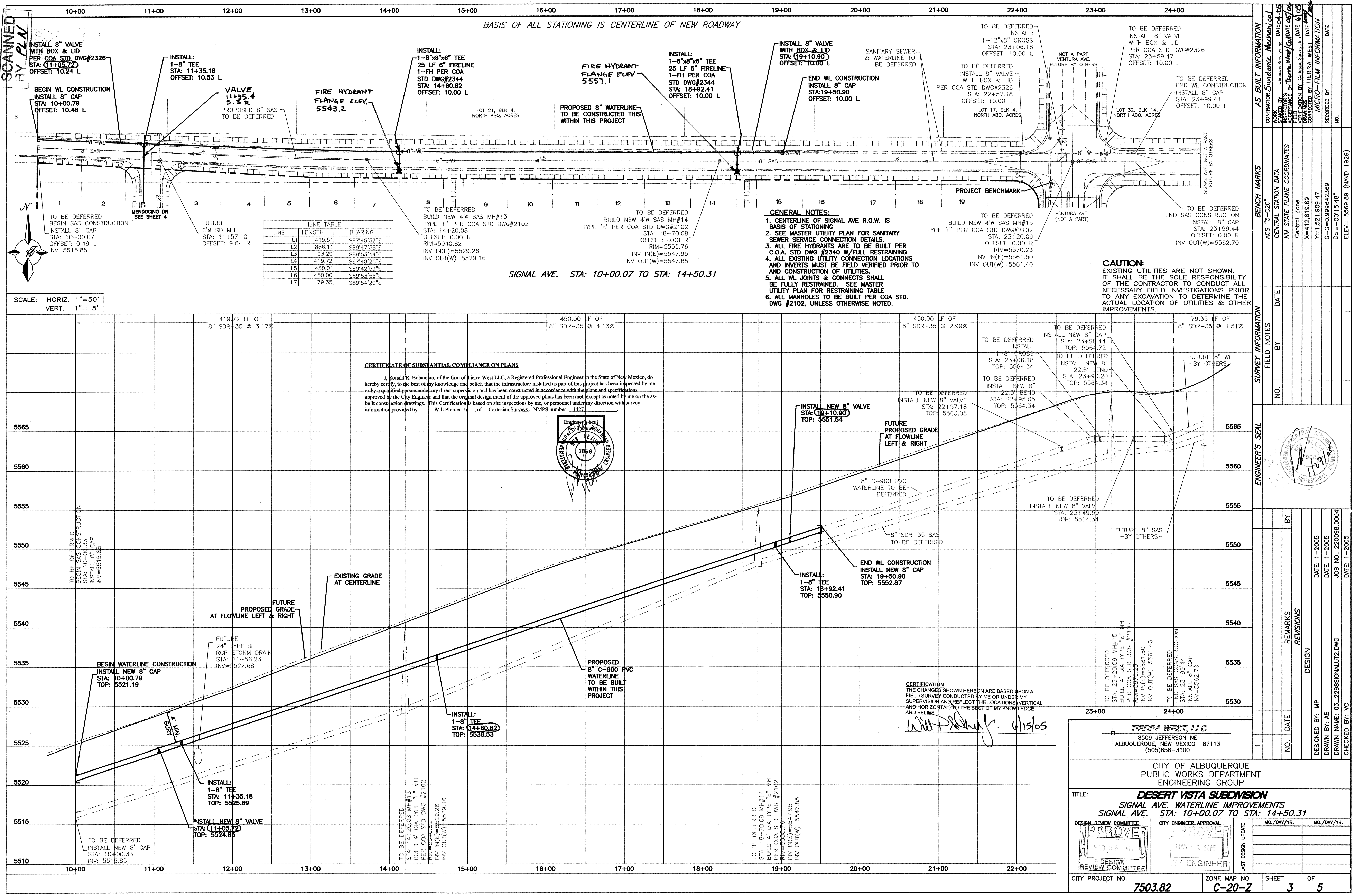
- KEYED NOTE: FUTURE IMPROVEMENTS
- (A) INSTALL FH PER COA STD DWG#2340 WITH VALVE
 - (B) INSTALL 4" Ø TYPE "E" MH PER COA STD DWG#2102
 - (C) INSTALL VALVE WITH BOX & LID PER COA STD DWG#2326
 - (D) INSTALL REDUCER
 - (E) INSTALL AIR RELEASE VALVE WITH BOX & LID PER COA STD DWG#2350
 - (F) INSTALL AIR RELEASE FH PER COA STD DWG#2340&2344
 - (G) REMOVE & REPLACE EXISTING PAVEMENT FOR UTILITY INSTALLATION PER COA STD DWG#2465

- KEYED NOTE: TO BE BUILT WITHIN THIS PROJECT
- (1) INSTALL FH PER COA STD DWG#2340 WITH VALVE
 - (2) INSTALL VALVE WITH BOX & LID PER COA STD DWG#2326
 - (3) INSTALL REDUCER
 - (4) INSTALL AIR RELEASE VALVE WITH BOX & LID PER COA STD DWG#2350
 - (5) INSTALL AIR RELEASE FH PER COA STD DWG#2340&2344

CERTIFICATION
THE CHANGES SHOWN HEREON ARE BASED UPON A FIELD SURVEY CONDUCTED BY ME OR UNDER MY SUPERVISION AND REFLECT THE LOCATIONS (VERTICAL AND HORIZONTAL) TO THE BEST OF MY KNOWLEDGE AND BELIEF.
Will Plotter Jr. 6/15/05

CAUTION:
EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

Tierra West, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: DESERT VISTA SUBDIVISION WATERLINE IMPROVEMENTS MASTER UTILITY PLAN	
DESIGN-REVIEW COMMITTEE APPROVED DATE: 6/15/05 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED DATE: 6/15/05 CITY ENGINEER
CITY PROJECT NO: 7503.82	MO./DAY/YR. C-20-2
DESIGNED BY: MP DRAWN BY: AB CHECKED BY: VC	MO./DAY/YR. 2 5



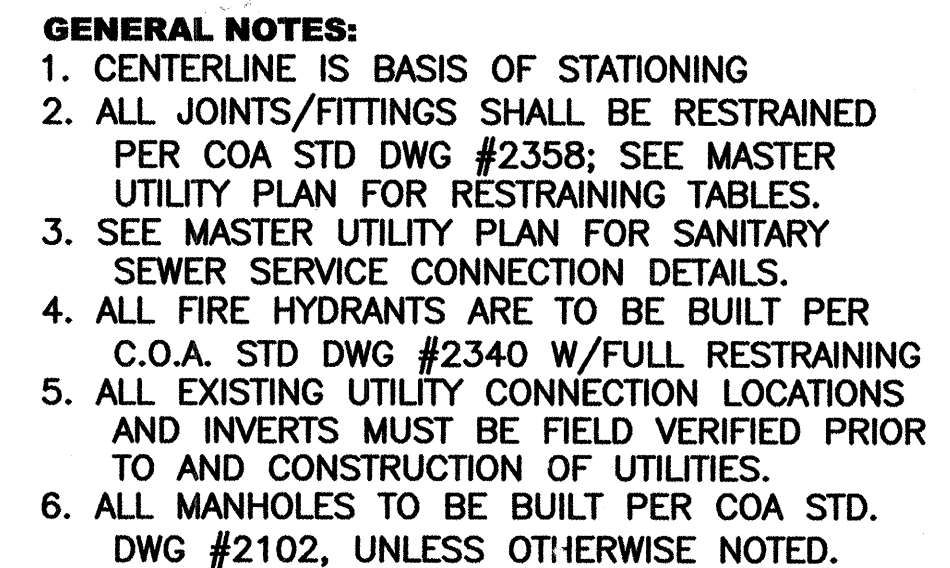
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR: <i>Sundance Mechanical</i>	DATE: <i>04/05</i>	AS: <i>3-C20</i>	DATE: <i>04/05</i>	NO.	BY		
WORK: <i>Waterline Improvements</i>	DATE: <i>04/05</i>	CENTRAL STATION DATA	DATE: <i>04/05</i>	NO.	BY		
INSPECTOR: <i>Will Plotner</i>	DATE: <i>04/05</i>	NM STATE PLANE COORDINATES	DATE: <i>04/05</i>	NO.	BY		
VERIFICATION: <i>Will Plotner</i>	DATE: <i>04/05</i>	CENTRAL ZONE	DATE: <i>04/05</i>	NO.	BY		
MICRO-FILM INFORMATION		REVISIONS		DESIGN		DESIGNED BY: MP	
RECORDED BY: <i>Will Plotner</i>	DATE: <i>04/05</i>	DATE: <i>04/05</i>		DATE: <i>04/05</i>		DATE: <i>04/05</i>	
NO.		JOB NO.: <i>220098.0004</i>		CHECKED BY: <i>VC</i>		DATE: <i>04/05</i>	

TITLE: **DESERT VISTA SUBDIVISION**
SIGNAL AVE. WATERLINE IMPROVEMENTS
SIGNAL AVE. STA: 10+00.07 TO STA: 14+50.31

DESIGN REVIEW COMMITTEE: *APPROVED* FEB 08 2005
CITY ENGINEER APPROVAL: *APPROVED* MAR 08 2005

CITY PROJECT NO. **7503.82** ZONE MAP NO. **C-20-Z** SHEET **3** OF **5**

CENTERLINE IS BASIS OF STATIONING

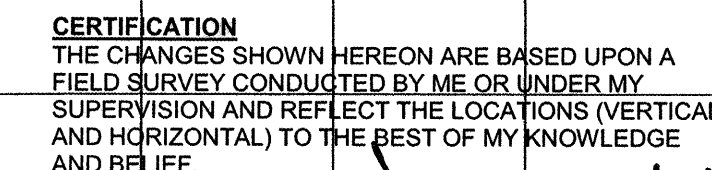
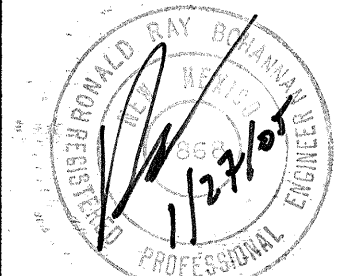


SCALE: HORIZ. 1"=20'
VERT. 1"= 2'

MENDOCINO DR. STA: 9+92.30 TO STA: 12+90.52

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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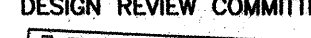


Will Fletcher for 6/15/09

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 87113
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: ***DESERT VISTA SUBDIVISION***
WATERLINE IMPROVEMENTS
MENDOCINO DR. STA: 9+92.30 TO STA: 12+90.52

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LATEST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
				

CITY PROJECT NO.		ZONE MAP NO.	SHEET	OF
750382		C-20-7	4	5

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION

ENGINEER'S SEAL

BY	
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REMARKS

NO.	DATE
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2005

DESIGN

DESIGNED BY: _____

19-2005

DRAWN BY: AB

220098.0004
2005

DOCINOUT2.DWG

DRAWN NAME: V
CHECKED BY: V

