

CONSTRUCTION PLANS FOR **COORS AND LA ORILLA, NW SE CORNER OF INTERSECTION**

UTILITY & PAVING IMPROVEMENTS

CITY OF ALBUQUERQUE
NEW MEXICO
AUGUST 2004

FW

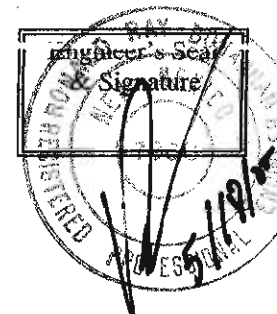
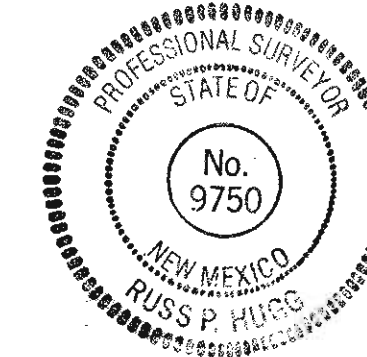
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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
Russ Hugg, of Surv-Tek Inc., NMPS number 9750

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Hereby Certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
8.8.2004



INDEX TO DRAWINGS

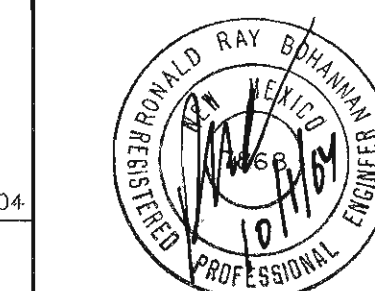
1. TITLE SHEET
2. PLAT
- 2a. PLAT
3. GRADING AND DRAINAGE PLAN
4. MASTER PAVING PLAN
5. PAVING DETAILS
6. COORS BLVD. PAVING
STA: 10+00 TO STA: 19+10.37
7. LA ORILLA RD. PAVING
STA: 10+39.22 TO STA: 16+92.08

8. BOSQUE PLAZA LOOP PAVING
STA: 10+54.83 TO STA: 21+38.33
9. MASTER UTILITY PLAN
10. LA ORILLA RD. UTILITY
STA: 11+63.27 TO STA: 16+90.93
11. BOSQUE PLAZA LOOP UTILITY
STA: 10+08.73 TO STA: 21+87.96
12. STRIPING PLAN
COORS BLVD. & LA ORILLA RD.
13. COORS BLVD. TRAFFIC CONTROL PLAN



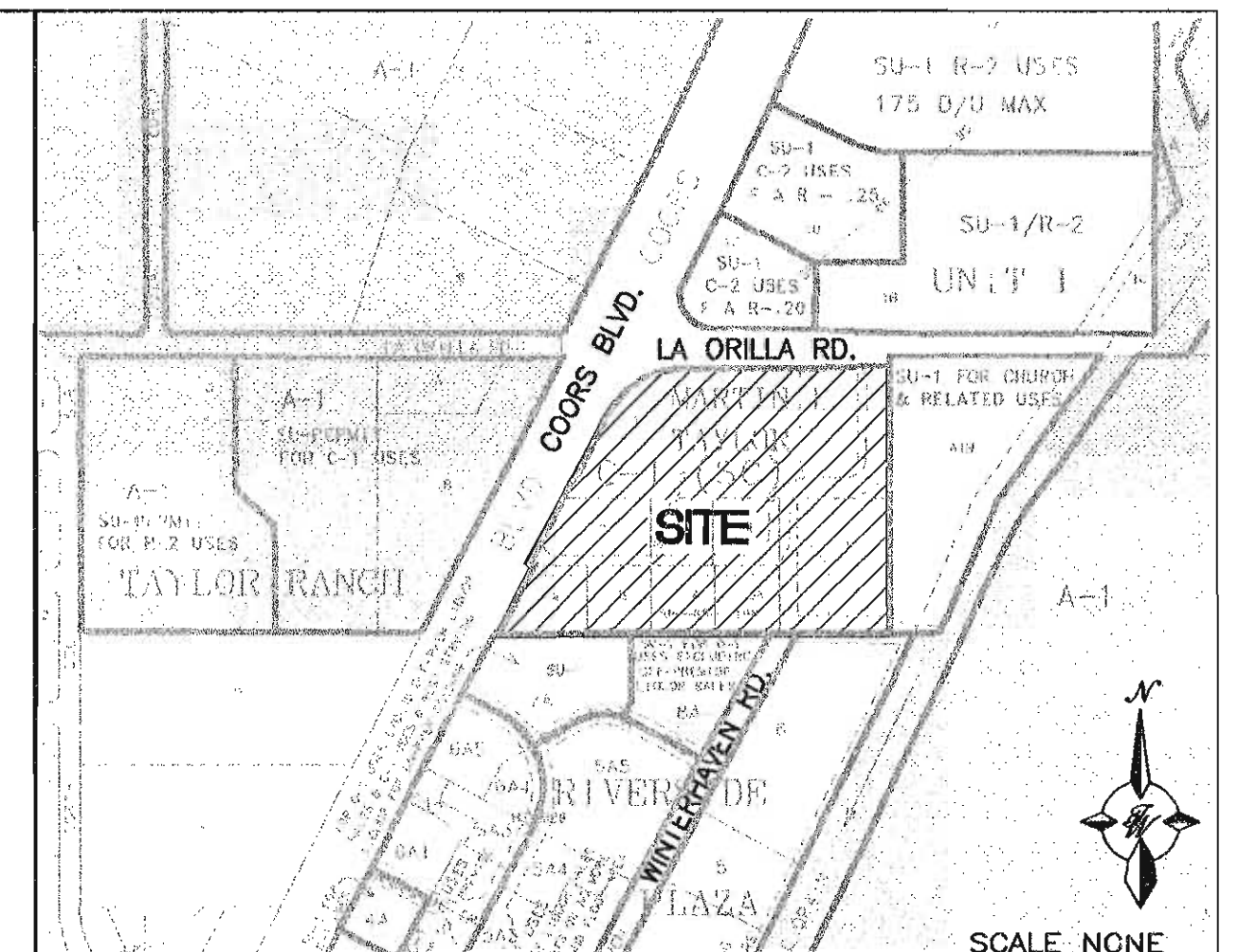
DRB # 1002397

Tierra West LLC
RON JEFFERSON, PE
ALBUQUERQUE, NEW MEXICO 87113
(505)958-3100



REV	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC Chairman		01-27-05	APPROVED FOR CONSTRUCTION		
		Transportation		10/14/04			
		Water/Wastewater		10/14/04			
		Hydrology		10/14/04			
		C.I.P.					
		Constr. Coord.		01-27-05			
CITY PROJECT NO. 7134.81					SHEET 1 OF 13		

Elevations are in NGVD 29.



VICINITY MAP ZONE ATLAS: A-E12 & F12-Z

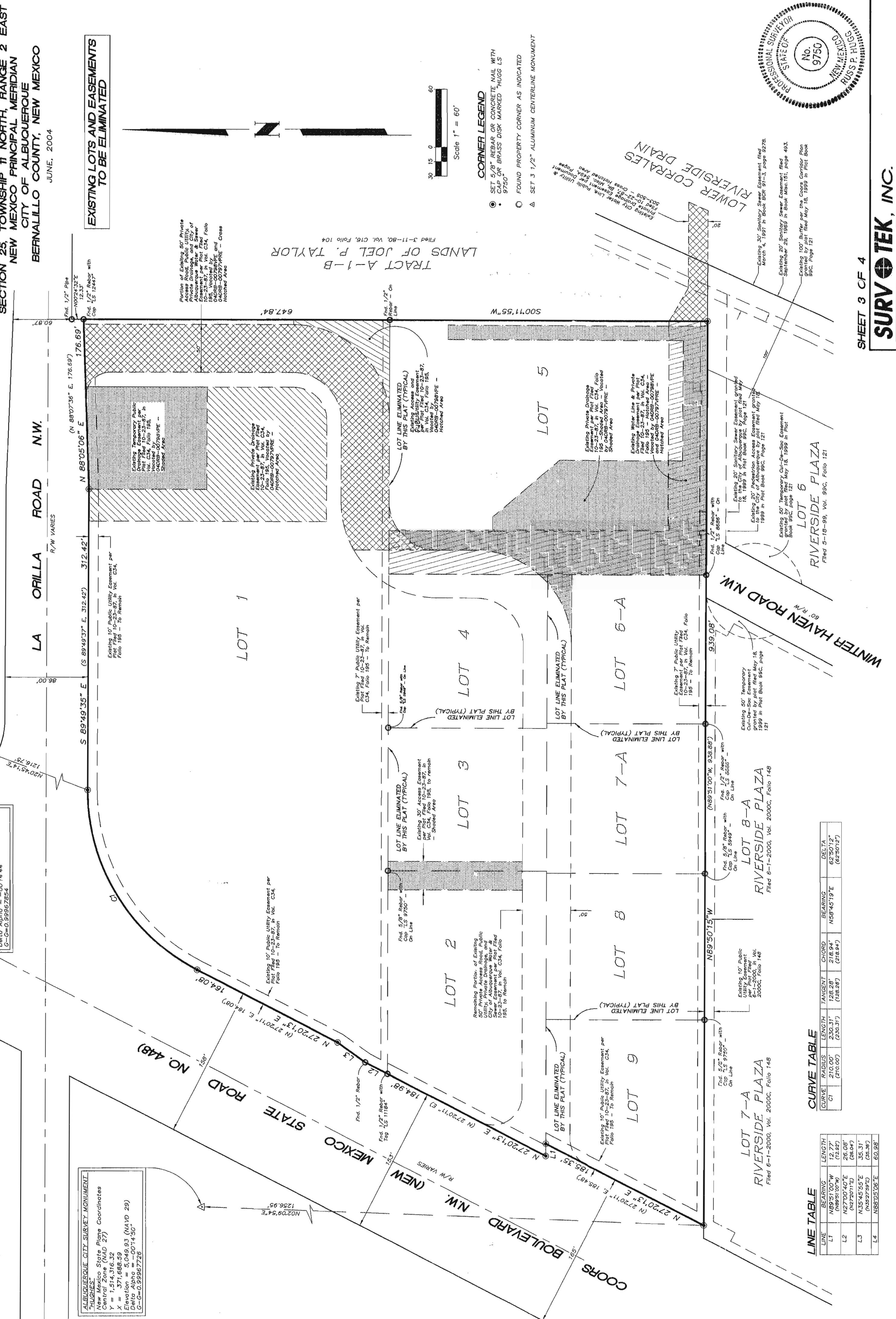
NOTICE TO CONTRACTORS

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 (UPDATE #7)
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. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES 24-HOUR CONSTRUCTION.
4. 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.
5. SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATIONS 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 STANDARD SPECIFICATIONS.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY THE CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY 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. ANY PERMANENT SURVEY MONUMENT LOCATED WITHIN 50' OF THIS PROJECT THAT IS NOT SHOWN ON THE PLAN AND IS DESTROYED DURING CONSTRUCTION WILL BE REPLACED AT THE DESIGNERS EXPENSE.
8. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
9. 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 PROJECT ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSIONED 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.

1/200074/2074--title.DWG/MP/09--29--2004



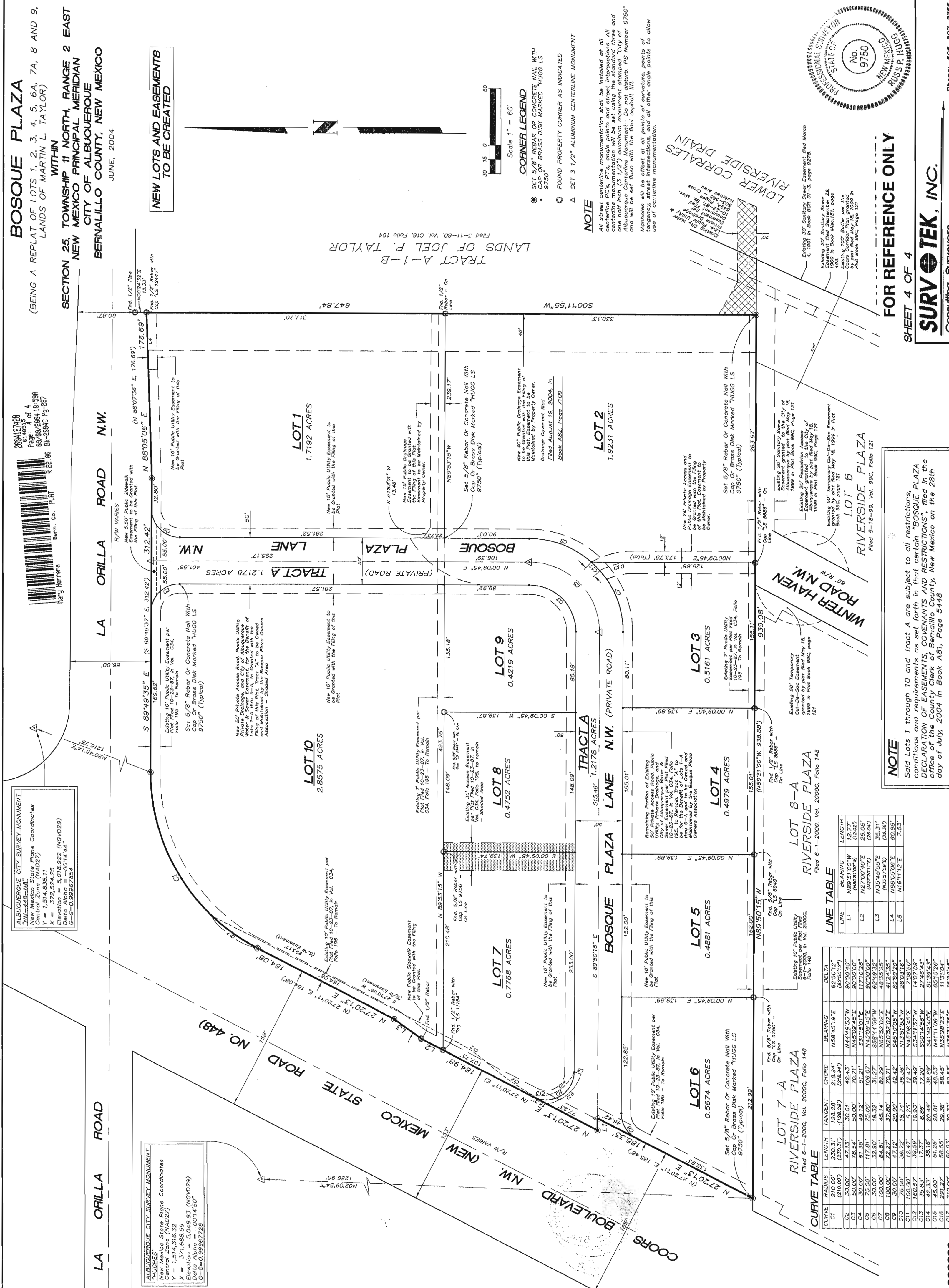
0.30382

SHEET 3 OF 4

SURV **TEK, INC.**

Phone: 505-897-3366
Fax: 505-897-3377

ALBUQUERQUE CITY SURVEY MONUMENT
 NMN-448-NB
 New Mexico State Plane Coordinates
 Central Zone (NAD27)
 Y = 1,514,838.11
 X = 372,524.25
 Elevation = 5,018.922 (NGVD29)
 Delta Alpha = -007144"
 Geoid 8896785.4



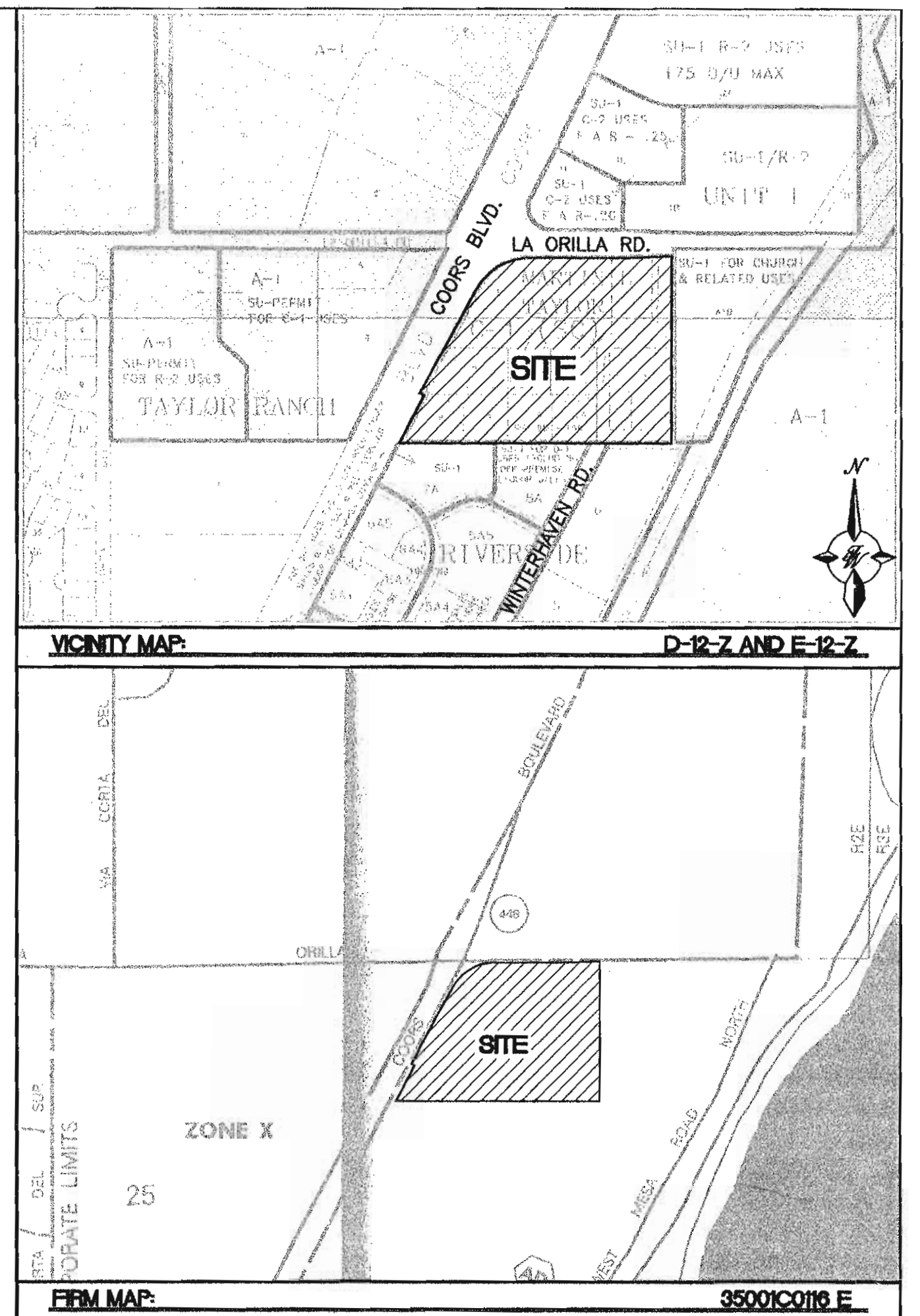
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FOODS

HEET 4 OF 4

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.



- NOTES:**
1. ALL SPOT ELEVATIONS REPRESENT FLOWLINE ELEVATION UNLESS OTHERWISE NOTED.
 2. SEE SHEET 3A OF 13 FOR SECTIONS Y-Y AND Z-Z

LEGEND

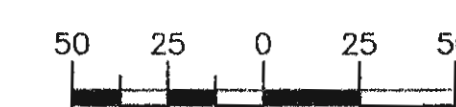
- EXISTING STORM SEWER MANHOLE
- EXISTING STORM SEWER INLET
- EXISTING STORM SEWER LINE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED DBL "A" INLET
- PROPOSED SNGL "A" INLET
- PROPOSED SNGL "D" INLET
- PROPOSED DBL "D" INLET
- 24" RCP
- PROPOSED STORM SEWER LINE
- EXISTING FENCE
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT
- PROPOSED SIDEWALK
- EXISTING SIDEWALK
- PROPOSED RETAINING WALL
- EXISTING RETAINING WALL
- EXISTING CONTOUR
- EXISTING INDEX CONTOUR
- FLOW ARROW
- SLOPE TIE
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- FUTURE SPOT ELEVATION
- HGL
- CENTERLINE

ENGINEER'S SEAL RONALD R. BOHANNAN P.E. #7868	LA ORILLA AND COORS, RETAIL CENTER GRADING AND DRAINAGE PLAN TERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505) 858-3100	DRAWN BY MP DATE: 09-29-2004 2074GR-092104X.DWG SHEET # 3 OF 13 JOB # 200074

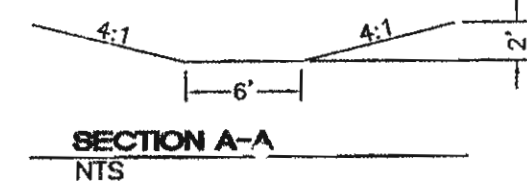
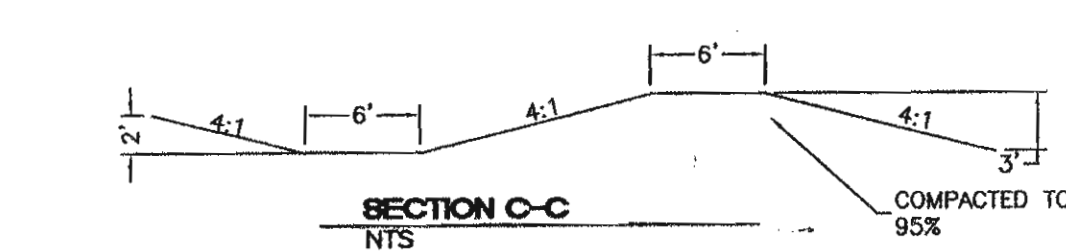
CAUTION: EXISTING UTILITIES ARE NOT SHOWN. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES & OTHER IMPROVEMENTS.

FOR REFERENCE ONLY

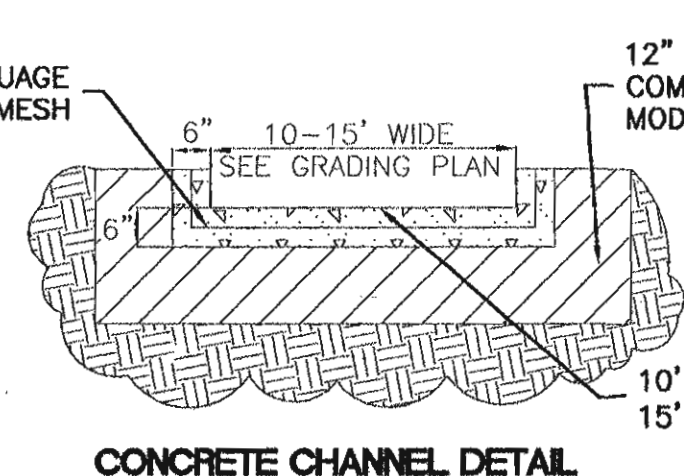
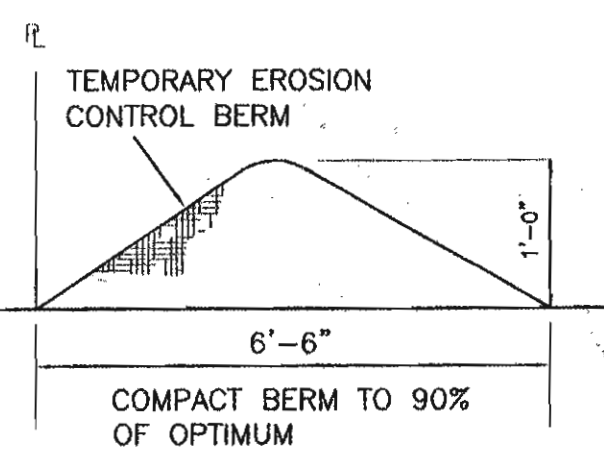
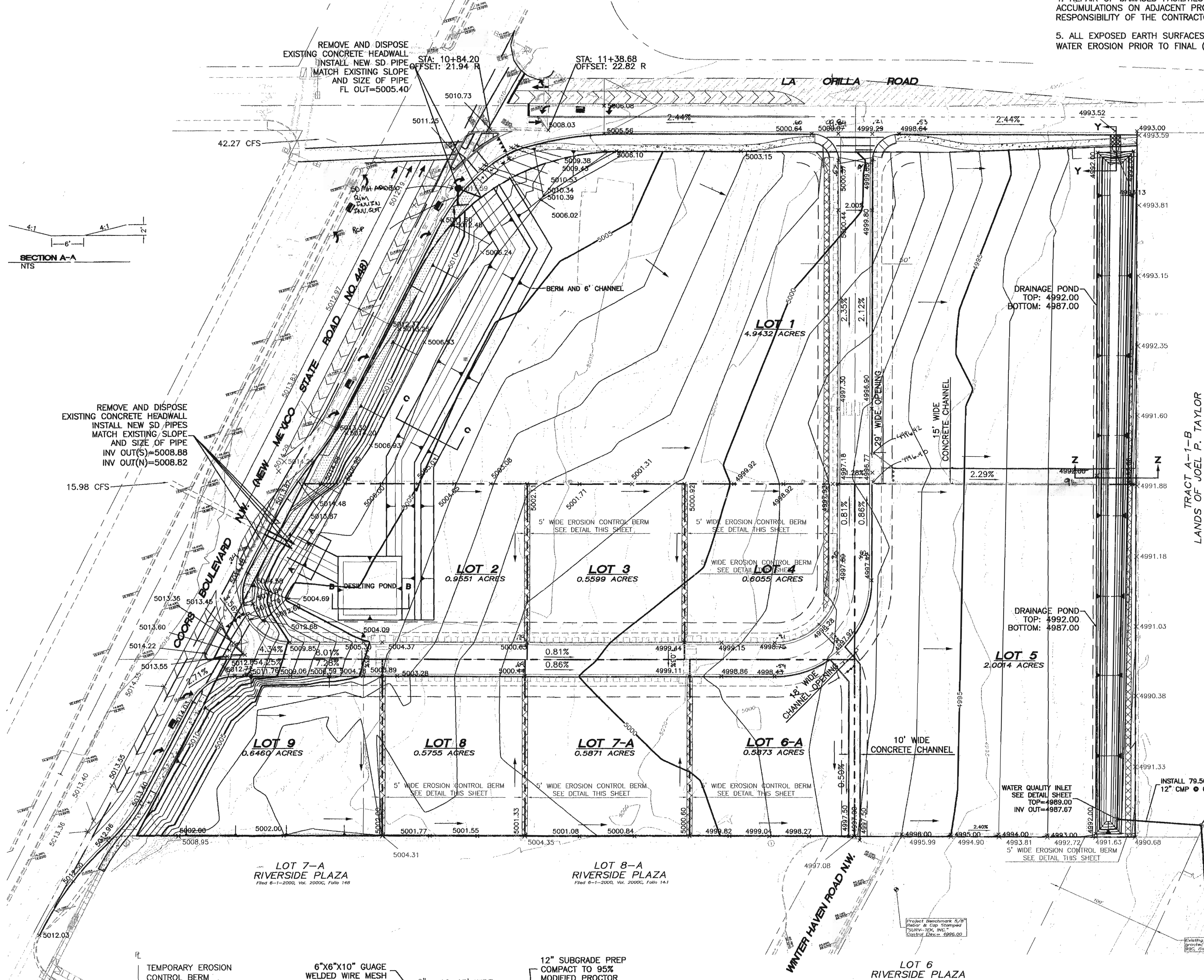
GRAPHIC SCALE



SCALE: 1"=50'



SCANNED BY MESA-REPRO

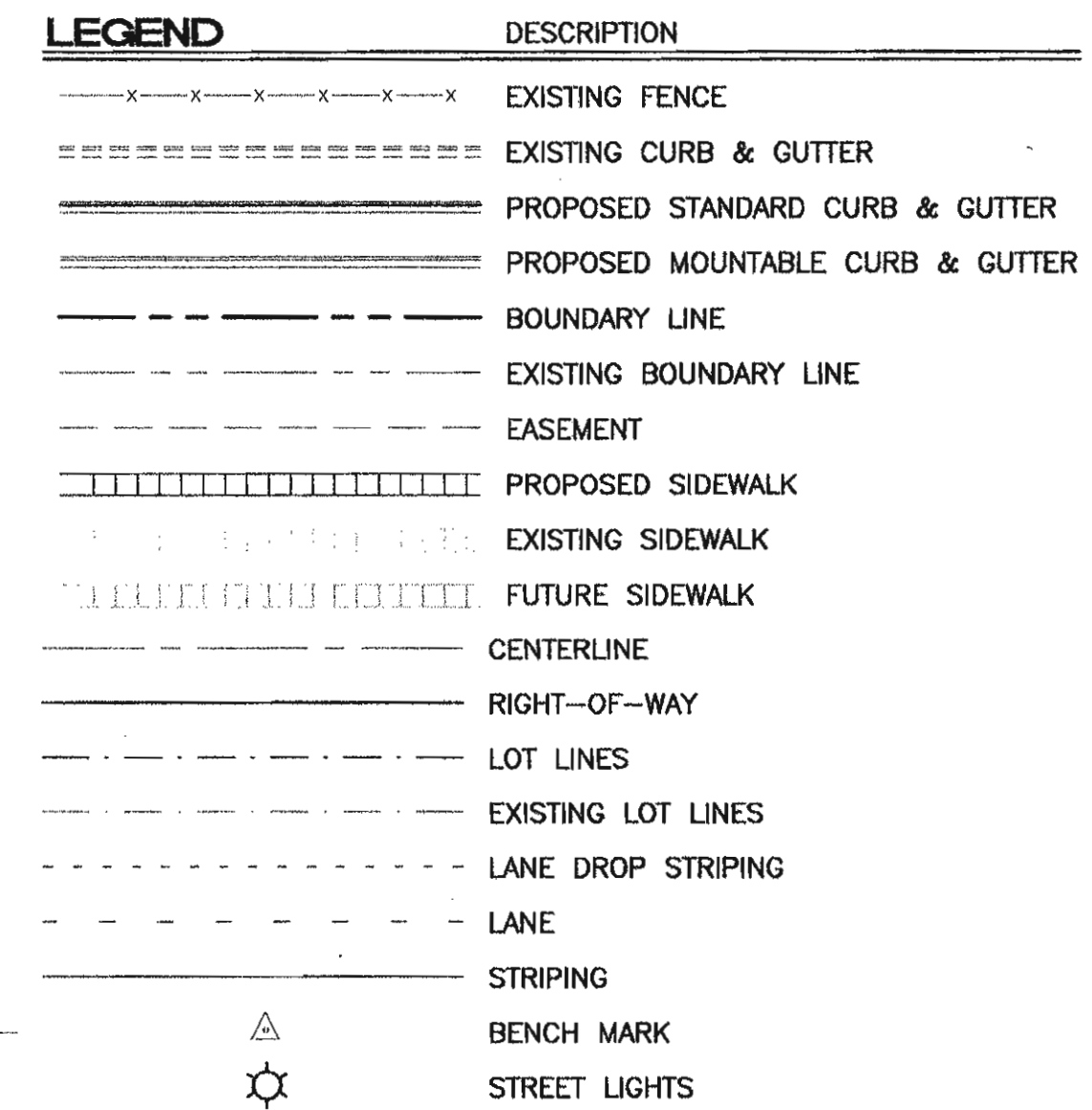


ROUGH GRADING APPROVAL

DATE

713481

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 _____.



1. STRIPING ERADICATION SHALL BE ACCOMPLISHED BY WATER BLASTING OR SURFACE PLANING OF THE ROADWAY TO A MINIMUM OF 0.25 INCHES AND A WIDTH TO EQUAL 2 TIMES THE WIDTH OF THE STRIPE OR MARKING TO BE REMOVED.

(A) EXISTING POWER POLE TO
BE RELOCATED. COORDINATE WITH PNM.

(B) EXISTING PULLBOX LIDS TO BE REMOVED AND DISPOSED
REPLACE WITH TRAFFIC RATED LIDS PER COA STD DWG#2550
COORDINATE WITH COA TRAFFIC ENGINEER

** 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 AND OTHER IMPROVEMENTS. COORDINATE WITH PROPER AUTHORITIES.

[illegible]

DATE MONTH	
RS BLVD. & COORS BLVD.	
MO./DAY/YR. 	MO./DAY/YR.
NO. OF SHEET	OF 4 13

TIERRA WEST, LLC
8509 JEFFERSON NE
ALBUQUERQUE, NEW MEXICO 8711
(505)858-3100

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

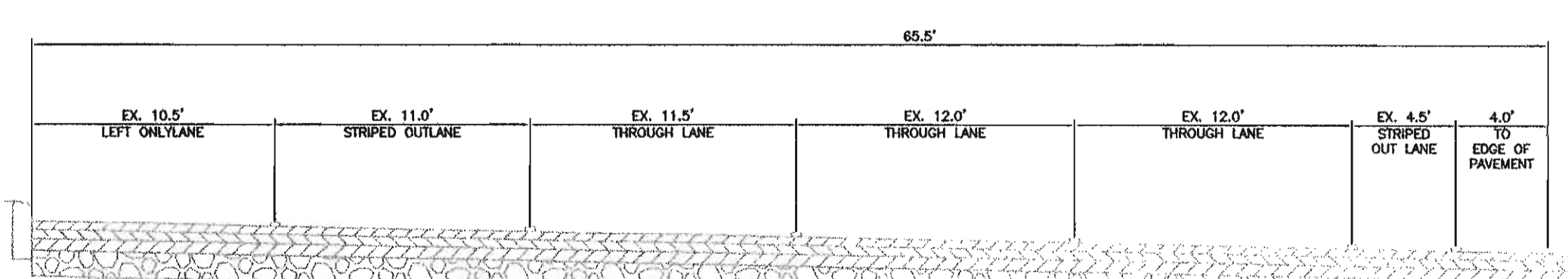
TITLE: **LA ORILLA RD. AND COORS BLVD.**
MASTER PAVING PLAN
S.E. CORNER OF LA ORILLA RD. & COORS BLVD.

DESIGN REVIEW COMMITTEE DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL CITY ENGINEER	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
71048	F&E-12	4	13	

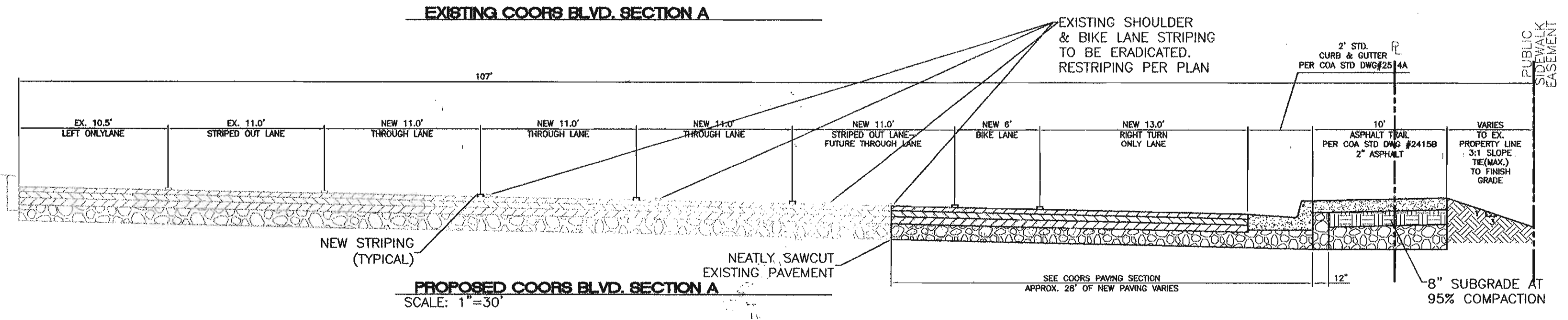
PROJECT NO.
71348

11. TYPICAL PAVEMENT SECTION, SEE STANDARD SPECIFICATIONS FOR PAVEMENTS

SCANNED BY
MESA TIEMPO



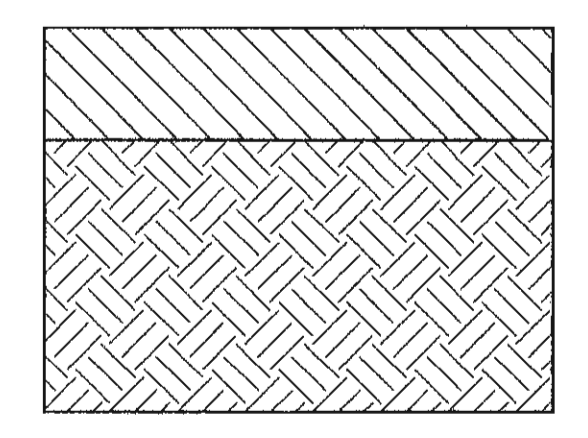
EXISTING COORS BLVD. SECTION A



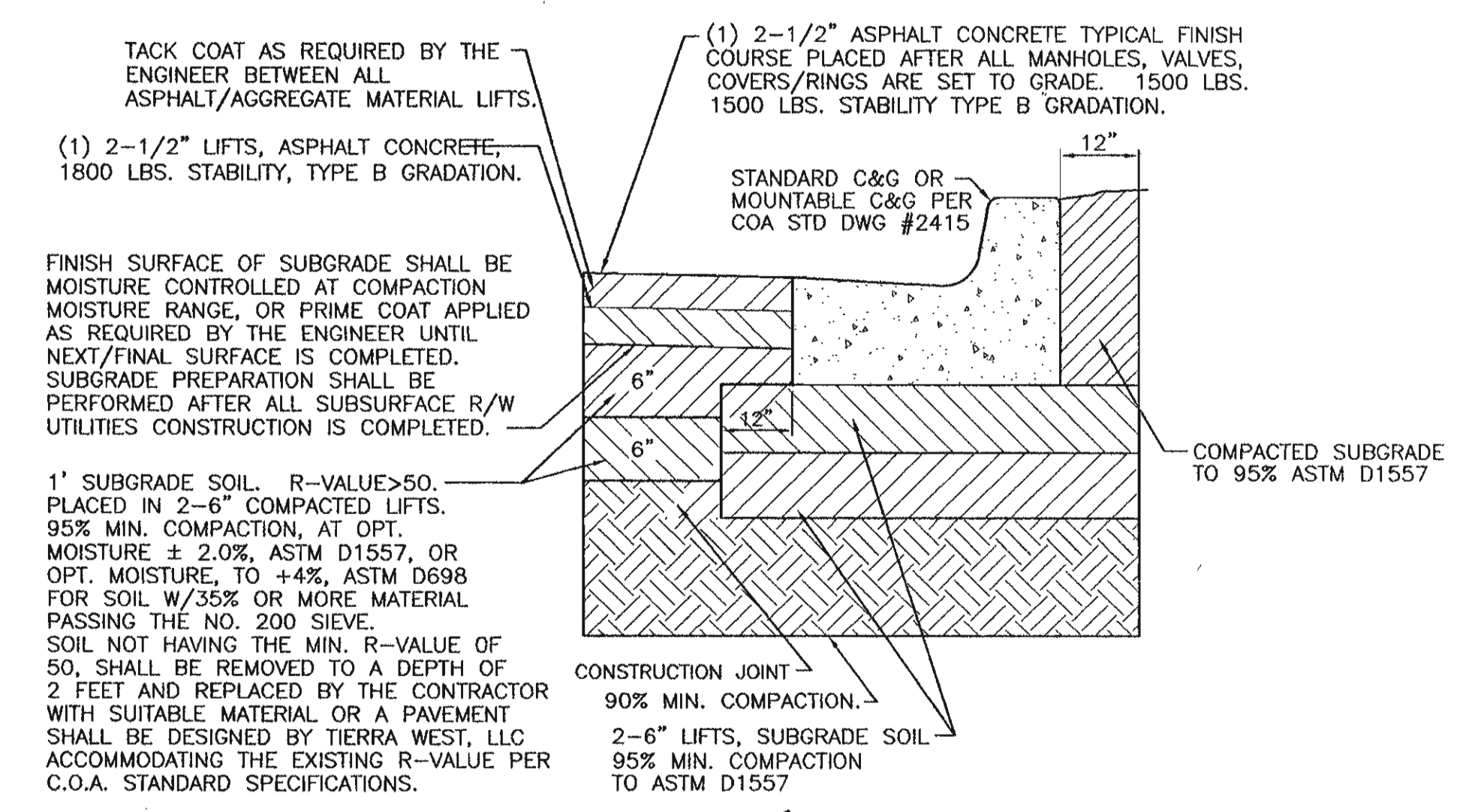
PROPOSED COORS BLVD. SECTION A
SCALE: 1"=30'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

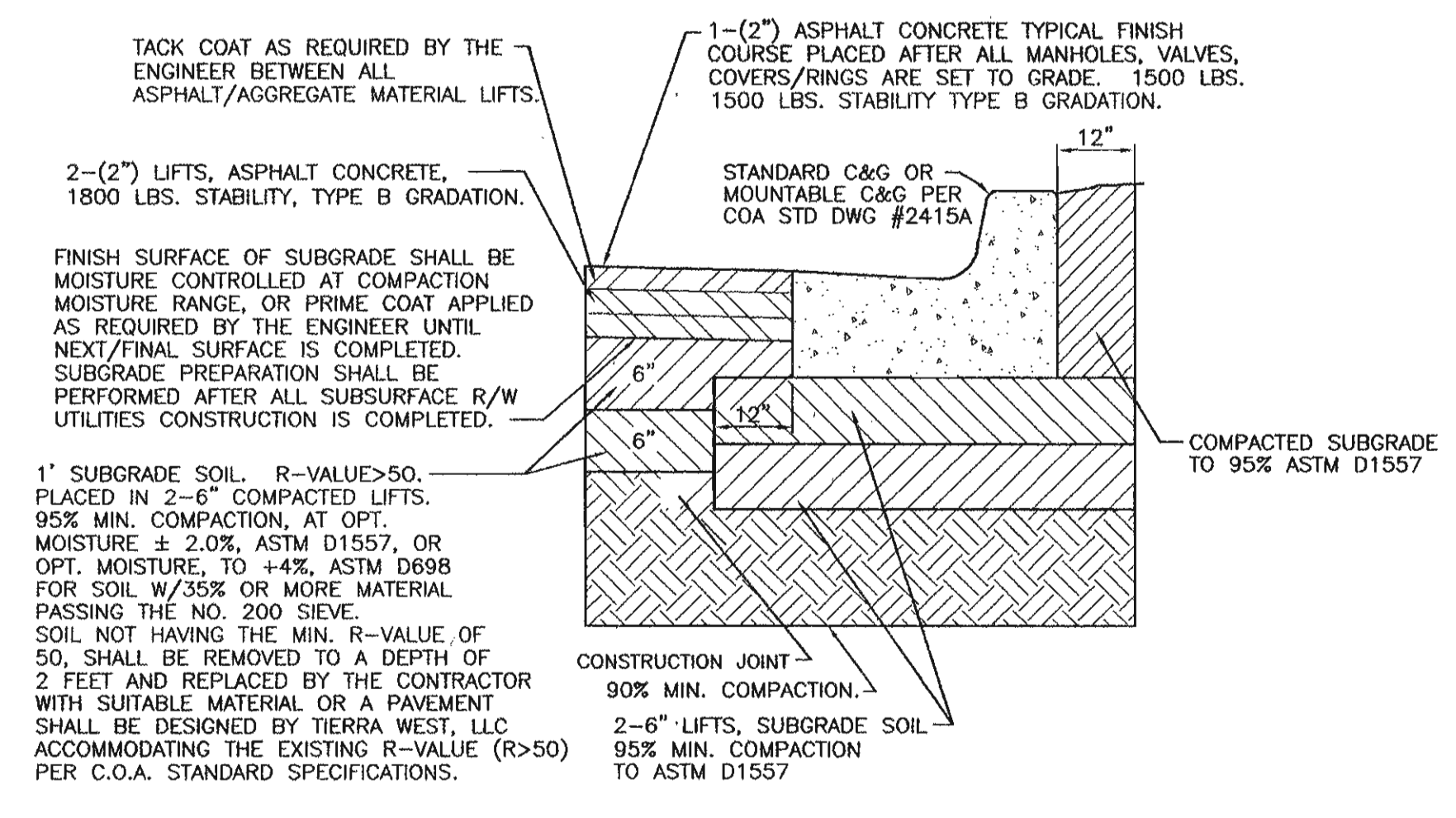
I, Ronald R. Bohannon, of the firm of **Tierra West LLC**, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct 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 **Russ Hugg**, of **Survey-Tek Inc.**, NMPS number **9750**.



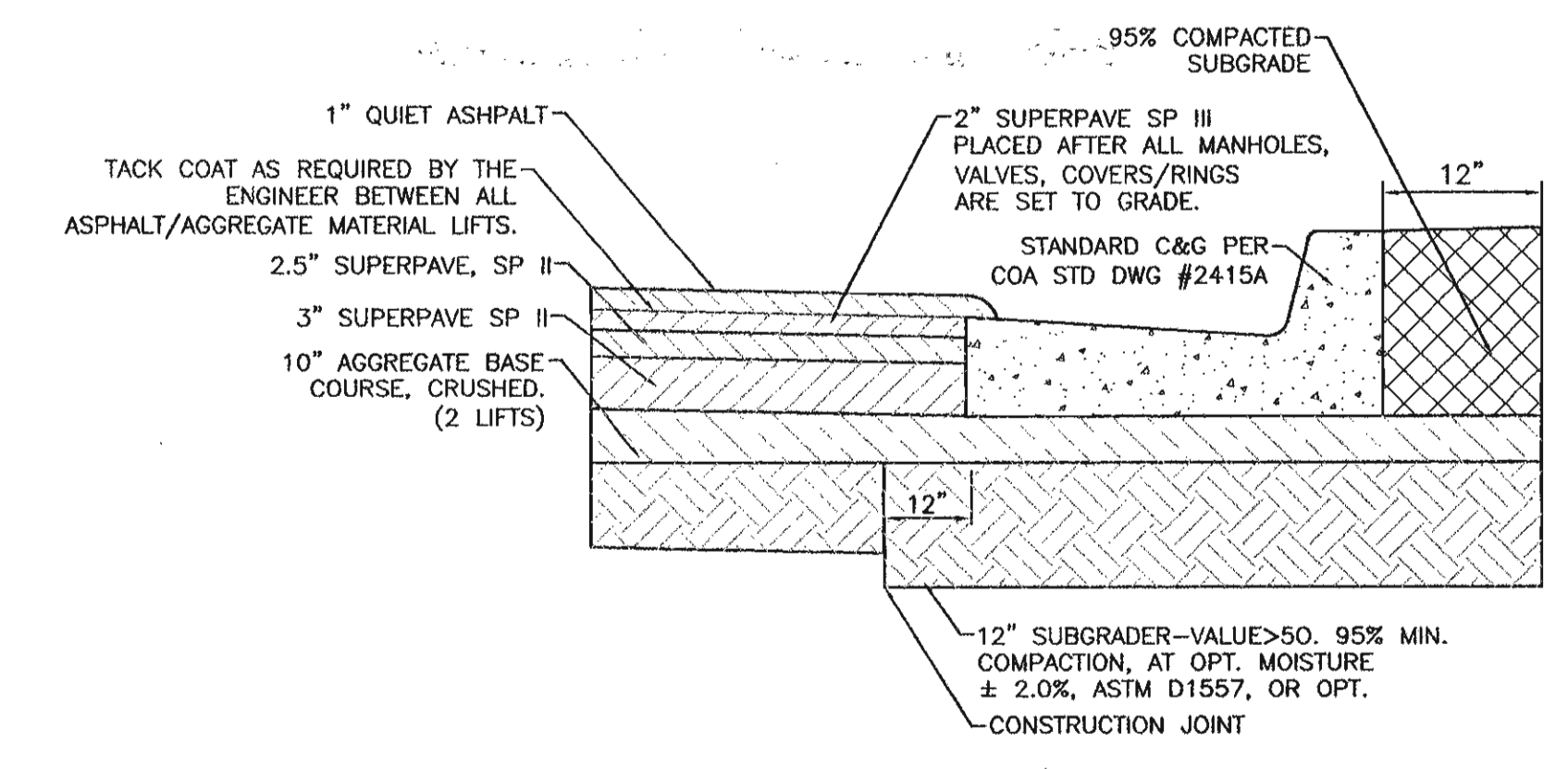
TEMPORARY PAVING SECTION (per 2415B)



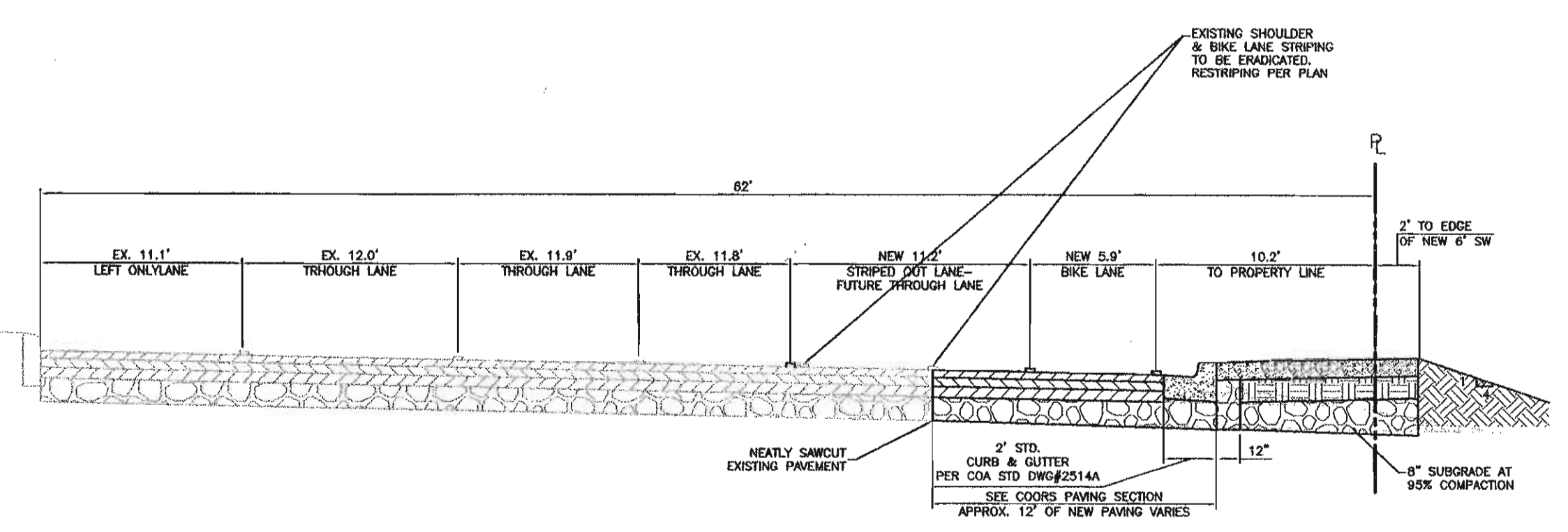
SECTION A*1
FLEXIBLE RESIDENTIAL PAVEMENT SECTION
NTS - FOR BOSQUE LOOP LANE



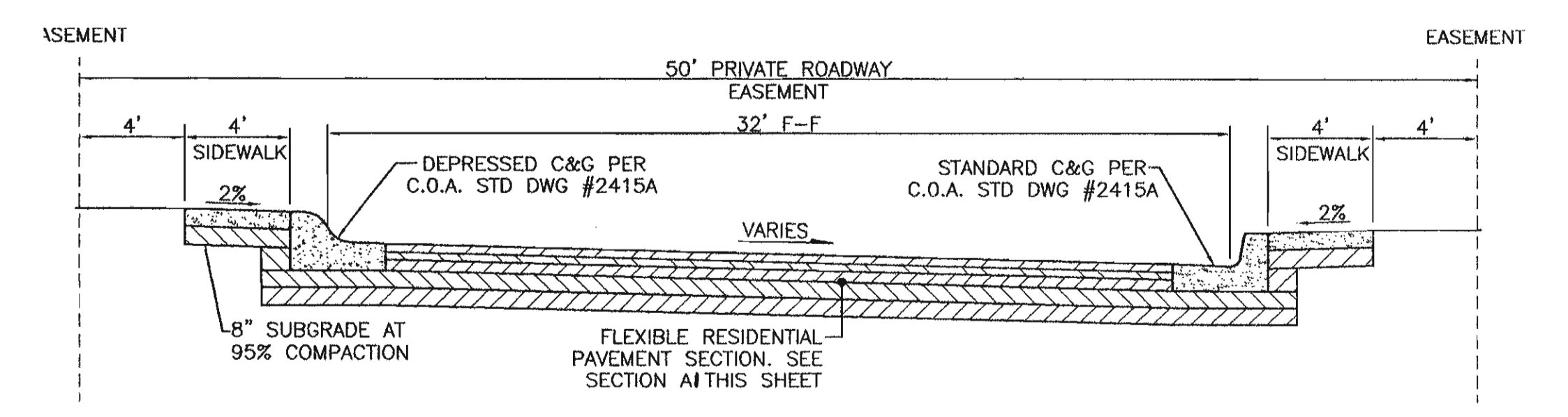
LA ORILLA PAVING SECTION
NTS PER COA STD DWG#2405B



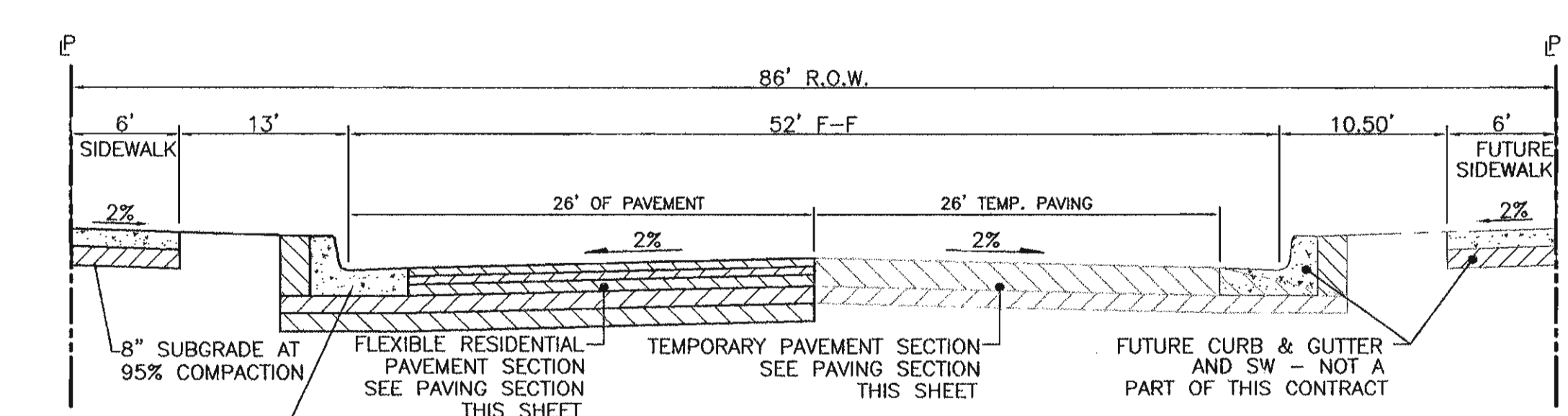
COORS PAVING SECTION
NTS PER ASBUILT PROJECT #5885.90



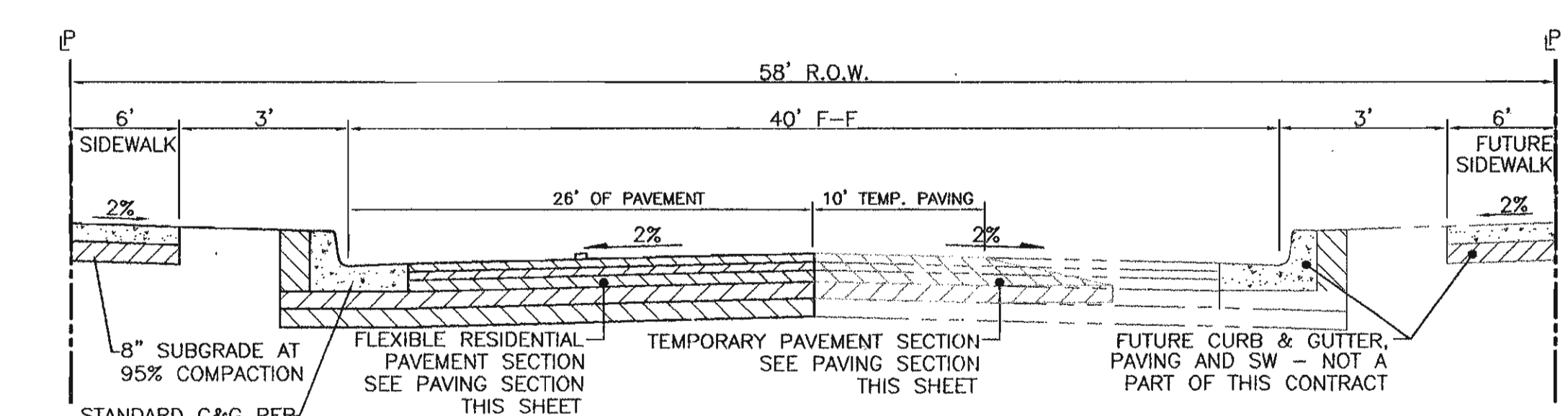
PROPOSED COORS BLVD. SECTION B
NOT TO SCALE



SECTION D
NTS



SECTION E
NTS



SECTION F
NTS

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:
LA ORILLA RD. AND COORS BLVD.
PAVING DETAILS
S.E. CORNER OF LA ORILLA RD. & COORS BLVD.

DESIGN REVIEW COMMITTEE
APPROVE
JAN 2 2009

DESIGN REVIEW COMMITTEE

CITY PROJECT NO.
713481

ZONE MAP NO.
E&F-12

DESIGNED BY: MP
DATE: 03-2004

DRAWN BY: MP
DATE: 09-29-2004

CHECKED BY: SL/RRB
DATE: 09-2004

REVISIONS
DESIGN

NO. DATE

BY

AS BUILT INFORMATION

CONTRACTOR
NEW
STAKED BY
DATE
INSPECTOR'S
DATE
FIELD
DATE
VERIFICATION BY
DATE
CORRECTED BY
DATE
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS

ACS "NM-448-N8"

CENTRAL STATION DATA
NM STATE PLANE COORDINATES
Central Zone (NAD 29)
X=372524.25
Y=1514838.11
G-G=0.9997854
Do=-0.01444"
ELEV=5018.922 (NAD 29)

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00 19+00 20+00 21+00 22+00

QUARTER POINTS

C3	FL	ELEV.	C100	FL	ELEV.	C100	FL	ELEV.
1	5013.84		1	5010.48		1	5012.57	
2	5013.64		2	5010.96		2	5013.12	
3	5013.44		3	5011.44		3	5013.67	

C13	FL	ELEV.	C14	FL	ELEV.	C15	FL	ELEV.
1	5011.54		1	5010.84		1	5009.28	
2	5011.33		2	5010.78		2	5007.87	
3	5011.12		3	5010.71		3	5008.48	

LINE	LENGTH	BEARING
L1	10.62	N28°12'53"E
L2	104.09	N28°14'56"E
L3	26.51	S27°51'07"W
L4	6.32	S89°51'03"E
L5	52.87	N27°08'25"E
L6	208.29	N27°08'22"E
L7	14.72	N27°08'22"E
L8	7.87	N27°08'22"E
L9	14.21	S89°49'35"E
L10	15.67	N29°33'02"E
L11	9.15	S29°33'02"W
L12	7.76	S52°46'53"E
L13	3.34	N48°40'26"E
L14	3.36	S52°46'53"E
L15	15.38	N26°24'38"E
L16	18.84	N26°24'38"E

CURVE TABLE

CURVE	LENGTH	RADIUS	DELTA	TANGENT	CH. BEARING	CHORD
C1	99.04	300.00	18°54'55"	49.98	S37°40'20"W	98.59
C2	49.43	150.00	18°52'52"	24.94	N37°41'22"E	49.21
C3	48.62	45.00	61°54'01"	26.99	S59°11'57"W	46.29
C5	14.69	71.00	11°51'21"	7.37	S32°38'37"E	14.67
C6	4.38	2.00	125°27'56"	3.88	N89°24'55"W	3.56
C7	9.65	4.00	138°09'35"	10.46	S41°13'41"E	7.47
C8	4.14	65.00	3°39'09"	2.07	S88°19'23"W	4.14
C9	2.46	1.00	141°03'27"	2.83	N19°37'14"E	1.89
C10	91.88	45.00	116°58'28"	73.42	S31°21'19"E	76.73
C11	71.14	300.00	13°35'11"	35.74	S33°56'01"W	70.97
C12	35.57	150.00	13°35'11"	17.87	N33°56'59"E	35.49
C13	82.46	180.00	28°14'56"	41.97	S40°16'50"W	81.74
C14	30.44	90.00	19°22'48"	15.37	S63°04'42"W	30.30
C15	90.19	300.00	17°13'32"	45.44	S81°22'52"W	89.85
C16	17.66	195.00	5°09'41"	8.83	S46°34'10"W	17.65
C17	5.70	2.00	163°09'03"	13.50	S54°26'09"E	3.96
C18	11.00	10.00	63°00'03"	6.13	S58°38'24"W	10.45
C19	2.66	1.00	152°36'16"	4.10	N13°31'27"W	1.94
C20	15.49	106.00	8°22'21"	7.76	S58°35'31"W	15.48
C21	11.98	195.00	3°30'04"	5.99	S52°39'18"W	11.98
C22	8.97	71.00	7°14'13"	4.49	S47°17'23"E	8.96
C23	11.61	65.00	10°14'07"	5.82	S74°48'35"W	11.60
C24	3.52	2.00	100°48'29"	2.42	N76°48'53"E	3.08

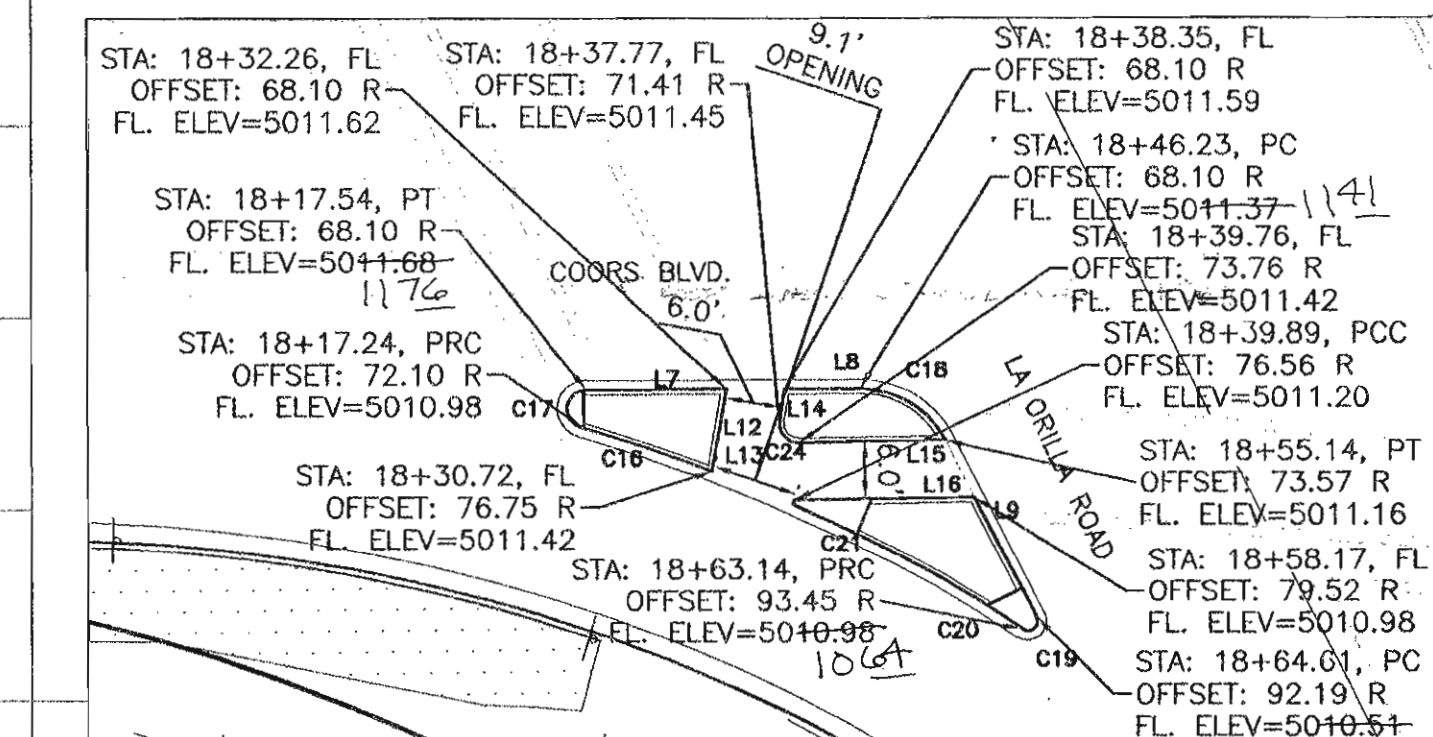
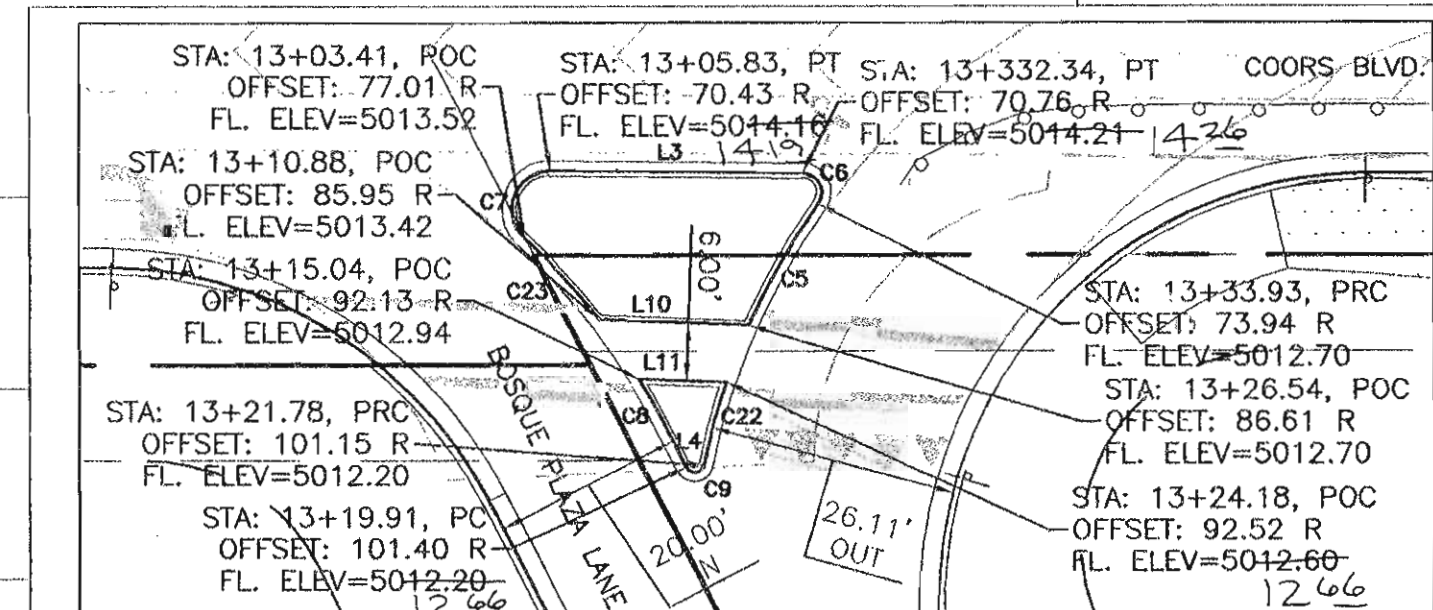
KEYED NOTE:

- SEE MASTER PAVING SHEET FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
- ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.
- ALL INTERSECTIONS TO BE BUILT PER C.O.A. STD. DWG#2401
- SEE SHEET 12 OF 13 FOR STRIPING DETAILS
- CENTERLINE OF COORS R.O.W. IS BASIS OF STATIONING

NOTE:

- SEE MASTER PAVING SHEET FOR STREET SECTIONS AND WHEELCHAIR RAMP TYPES.
- ALL CURB AND GUTTER ARE TO BE STANDARD UNLESS OTHERWISE NOTED.
- ALL INTERSECTIONS TO BE BUILT PER C.O.A. STD. DWG#2401
- SEE SHEET 12 OF 13 FOR STRIPING DETAILS
- CENTERLINE OF COORS R.O.W. IS BASIS OF STATIONING

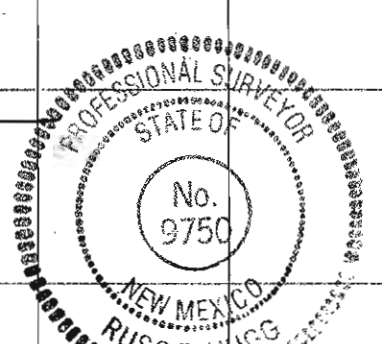
SCALE: HORIZ. 1"=50'
VERT. 1"= 5'



SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Herby certify that the as-built information shown herein is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
2003



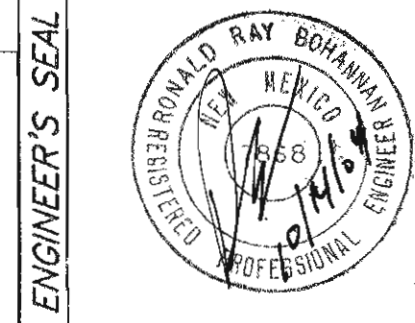
TERRA WEST, LLC

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **LA ORILLA RD. AND COORS BLVD.**
COORS BLVD. PAVING IMPROVEMENTS
STA: 10+00 TO STA: 19+10.37

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVE	APPROVE		
JAN 9 7 2005	FEB 9 2 2005		
DESIGN REVIEW COMMITTEE			
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	E&F-12	6	13



REMARKS	BY	DATE
DESIGN	MP	03-2004
REVISIONS	MP	10-14-2004
	MP	10-2004
	MP	10-2004

COORS BLVD.

STA: 10+00 TO STA: 19+10.37

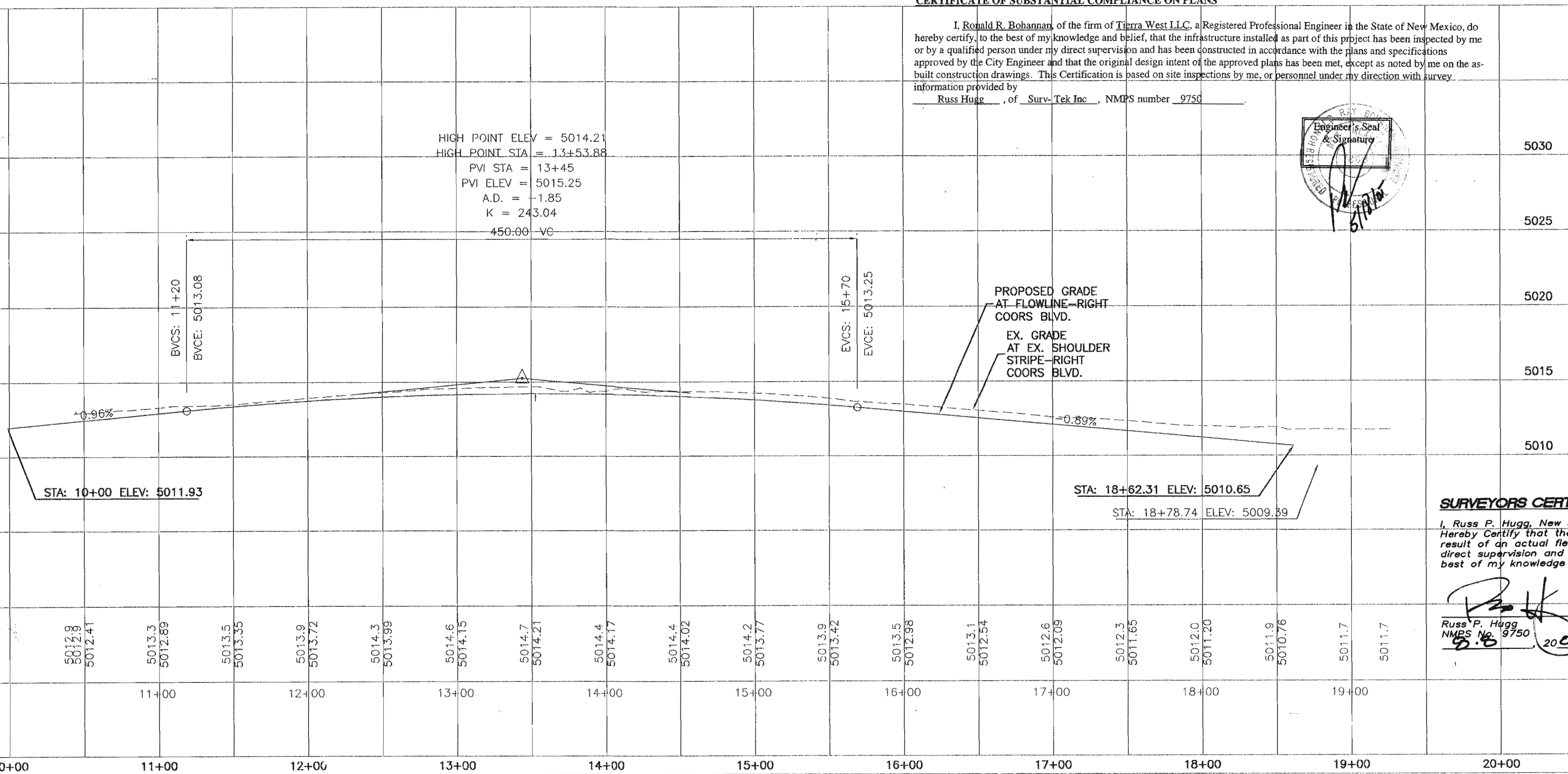
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohannon, of the firm of Terra 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 Russ Hugg, of Surv-Tek Inc., NMPS number 9750.



HIGH POINT ELEV = 5014.21
HIGH POINT STA = 13+53.88
PVI STA = 13+45
PVI ELEV = 5015.25
A.D. = -1.85
K = 243.04
450.00 - VC

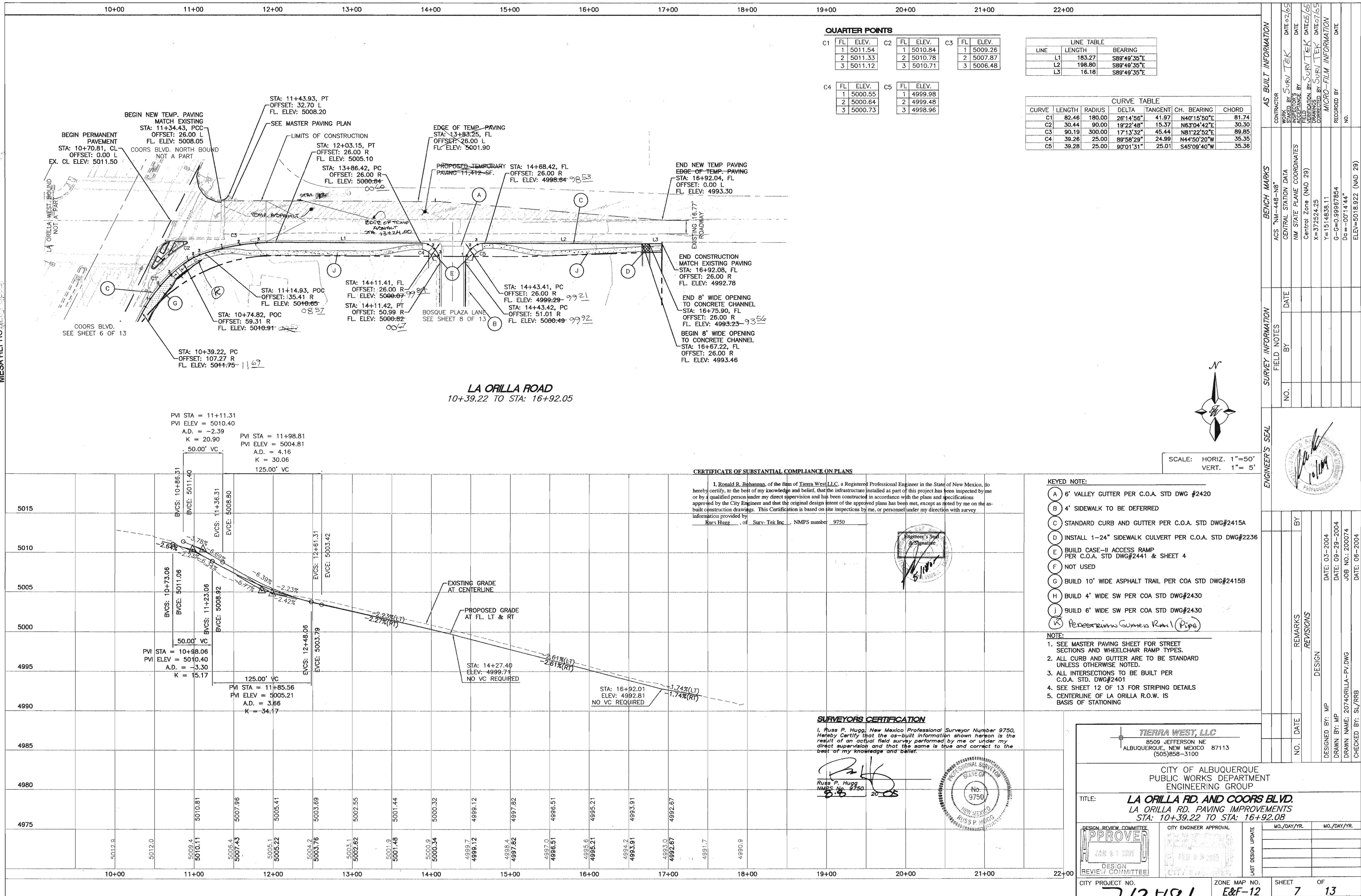
PROPOSED GRADE
AT FLOWLINE-RIGHT
COORS BLVD.
EX. GRADE
AT EX. SHOULDER
STRIPE-RIGHT
COORS BLVD.



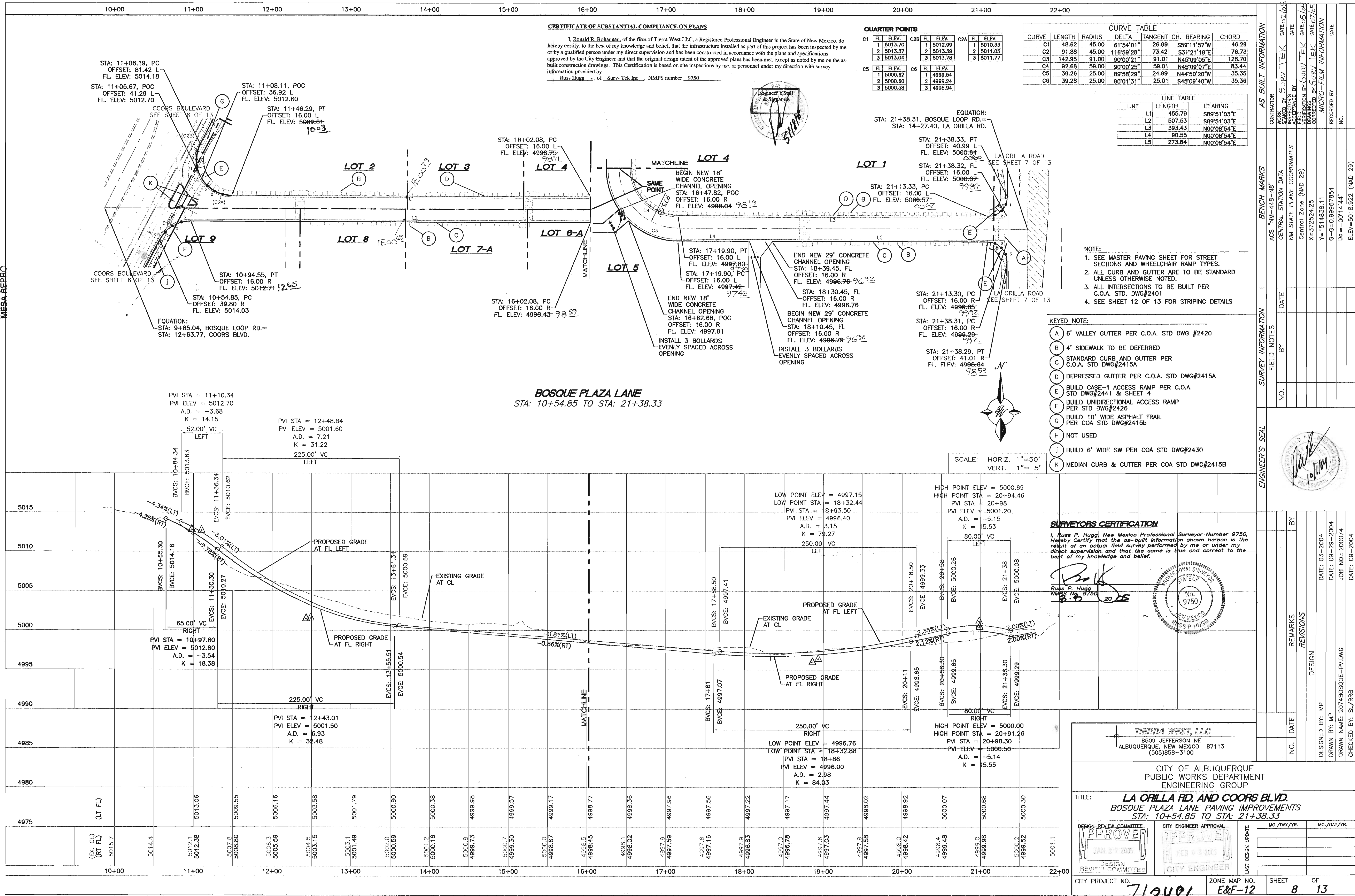
STA: 10+00 ELEV: 5011.93

STA: 18+62.31 ELEV: 5010.65

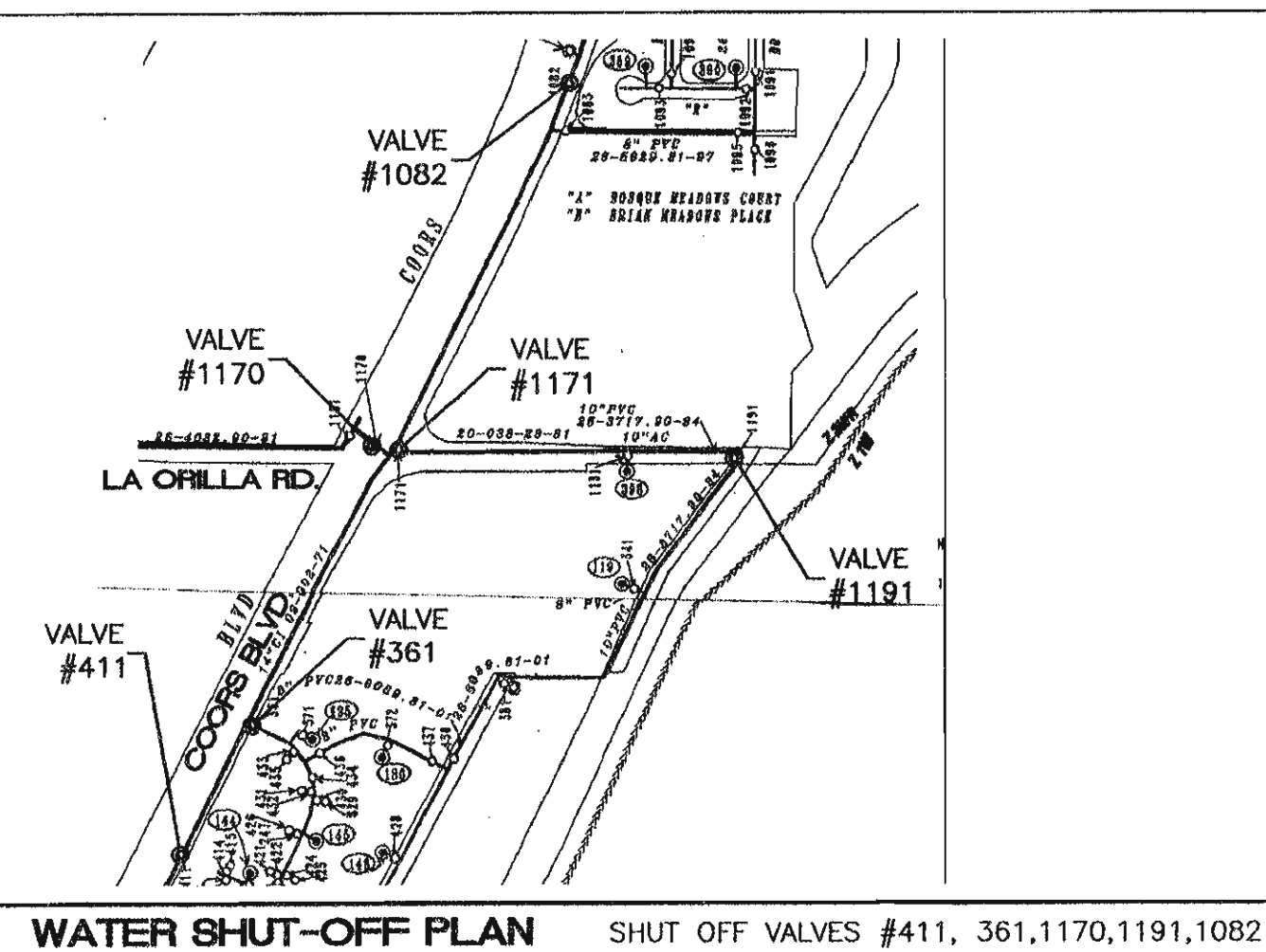
STA: 18+78.74 ELEV: 5009.39



SCANNED BY
MESA REPEC



SCANNED BY
MESA HEPHO



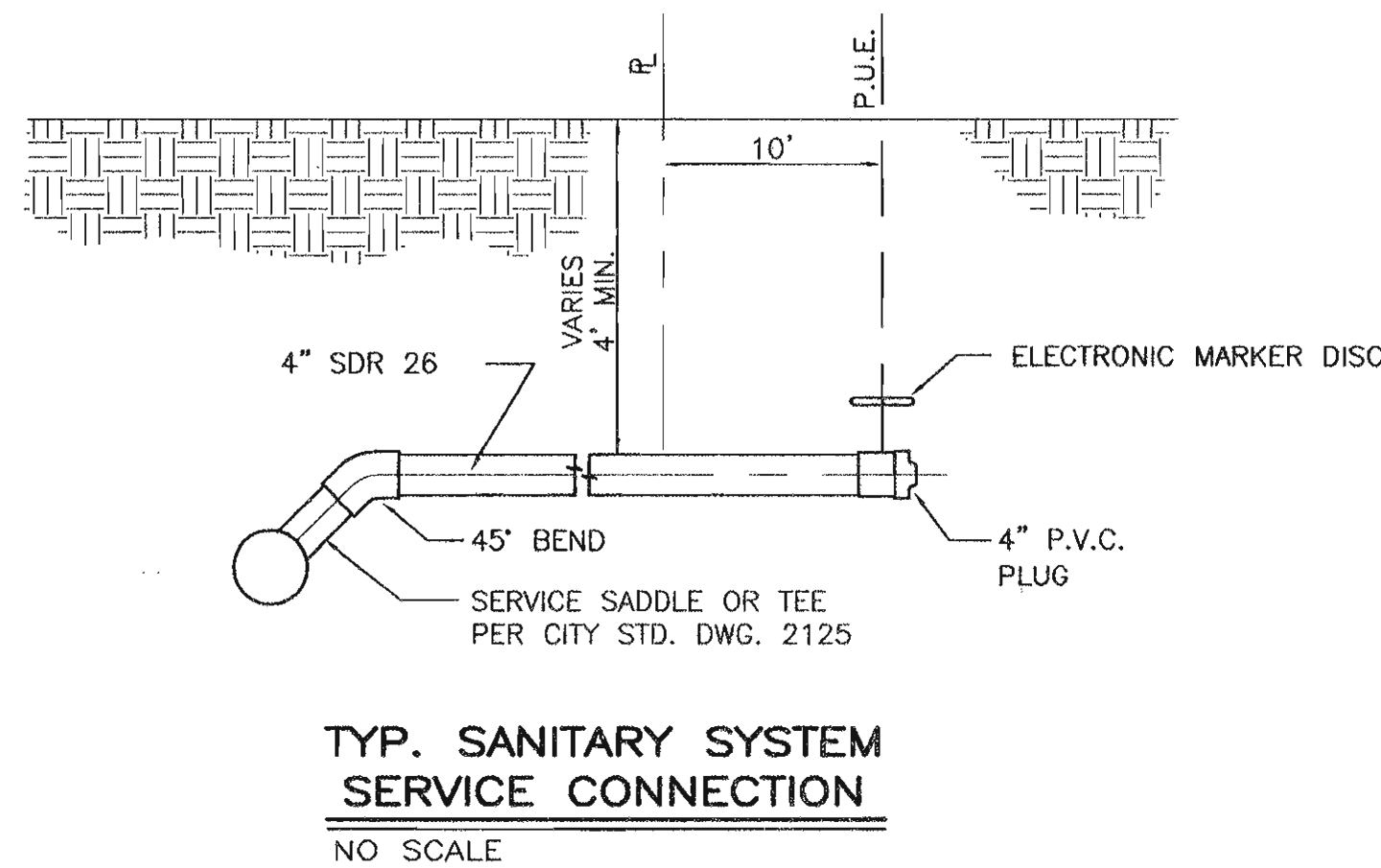
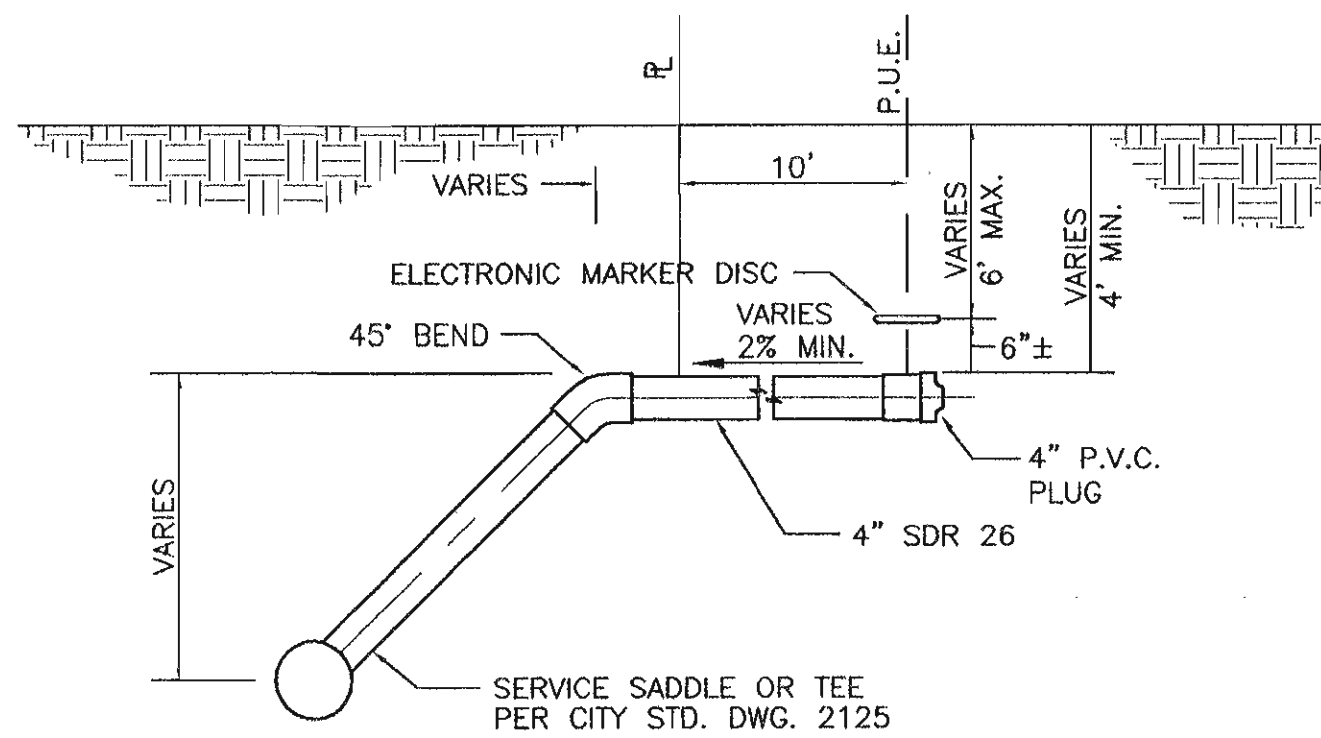
- NOTES:
- ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
 - NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
 - APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
 - SHUTOFF THE VALVES INDICATED IN THE ABOVE PLAN

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 VERTICAL OFFSETS/BENDS (EACH SIDE)			
		HORIZONTAL BENDS			
		90°	45°	22-1/2°	11-1/4°
12	UPPER	DON'T USE	14	2	3
	LOWER	DON'T USE	4	2	1
10	UPPER	DON'T USE	12	6	3
	LOWER	DON'T USE	3	2	1
8	UPPER	DON'T USE	10	5	2
	LOWER	DON'T USE	3	4	1
6	UPPER	DON'T USE	8	4	2
	LOWER	DON'T USE	2	1	N/A
4	UPPER	DON'T USE	5	3	1
	LOWER	DON'T USE	1	1	N/A



LEGEND	
○	EXISTING SAS MANHOLE
— EX. 8" SAS —	EXISTING SANITARY SEWER LINE
●	PROPOSED SAS MANHOLE
8	PROPOSED SAS CLEANOUT
▶	DIRECTION OF FLOW
— 6" SAS —	PROPOSED SANITARY SEWER LINE
⊗	EXISTING METER
⊗	EXISTING VALVE W/BOX
⊗	EXISTING FIRE HYDRANT
— EX. 16" WL —	EXISTING WATER LINE
⊗	PROPOSED METER
⊗	PROPOSED VALVE W/BOX
⊗	PROPOSED FIRE HYDRANT
— 8" WL —	PROPOSED WATER LINE
—	EXISTING CURB & GUTTER
—	PROPOSED CURB & GUTTER
—	BOUNDARY LINE
—	EXISTING BOUNDARY LINE
—	EASEMENT
—	PROPOSED SIDEWALK
☼	STREET LIGHTS

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*					
		LENGTH ALONG RUN**					
		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
6x6x4		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 HORIZONTAL BENDS, VALVES, AND DEAD ENDS (EACH SIDE)			
		HORIZONTAL BENDS			
		90°	45°	22-1/2°	11-1/4°
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

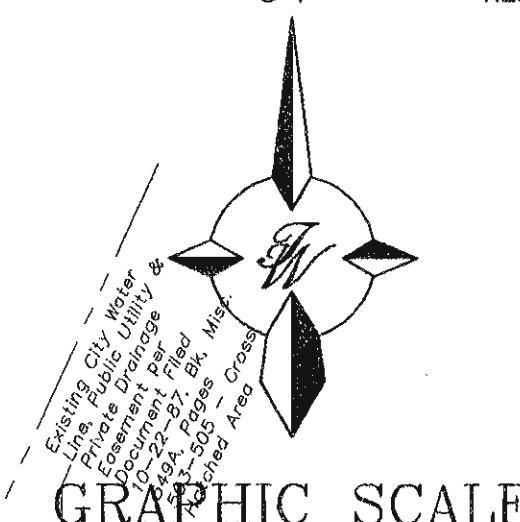
SIZE		RESTRAINED JOINT LENGTHS FOR REDUCERS***	
		L. SIDE	R. SIDE
12x10	17	10x6	18
12x8	18	10x4	23
12x6	25	8x6	10
12x4	29	8x4	17
10x8	10	6x4	9

***RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Ronald R. Bohman, 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 instruments used by me or personnel under my direction.

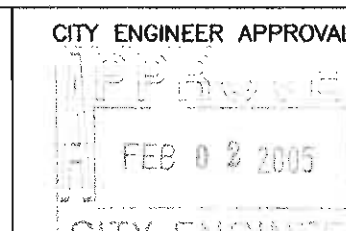
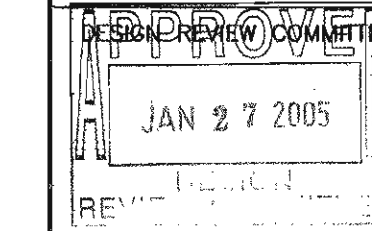
Russ Bhatia, P.E., Survey-Tek Inc., N.M.P.S. number 9750



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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **LA ORILLA RD. AND COORS BLVD.**
MASTER UTILITY PLAN
S.E. CORNER OF LA ORILLA RD. & COORS BLVD.



CITY PROJECT NO. **713481** ZONE MAP NO. **E&F-12** SHEET **9** OF **13**

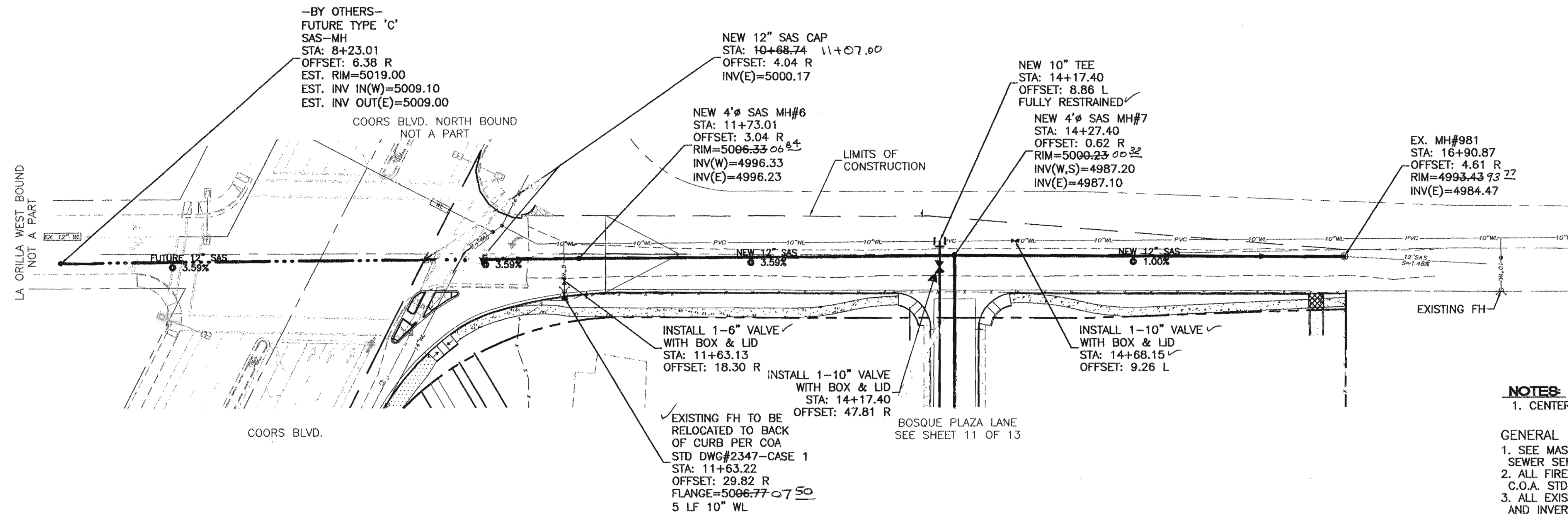
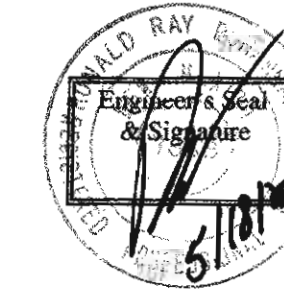
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	CCT/7	ACS	NM-448-NB	DATE	NO.	REMARKS	REVISIONS
WORK	BY	CENTRAL STATION DATA		BY		DATE	DESIGN
INSPECTOR	DATE	NM STATE PLANE COORDINATES		DATE		DATE: 03-2004	
ACCEPTANCE BY	DATE	Central Zone (NAD 29)		DATE		DATE: 10-12-2004	
VERIFICATION BY	DATE	X=372524.25		DATE		DATE: 10-2004	
DRAWINGS	DATE	Y=1514838.11		DATE			
CORRECTED BY	DATE	G-G=0.99967854		DATE			
RECORDED BY	DATE	Dc=-001'4.44"		DATE			
NO.		ELEV=5018.922 (NAD 29)		DATE			

SCANNED BY
MESA REPRO

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

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 **Russ Hugg**, of **Surv-Tek Inc.**, NMPS number **9750**.



LA ORILLA ROAD
STA: 10+68.74 TO STA: 16+90.87

NOTES

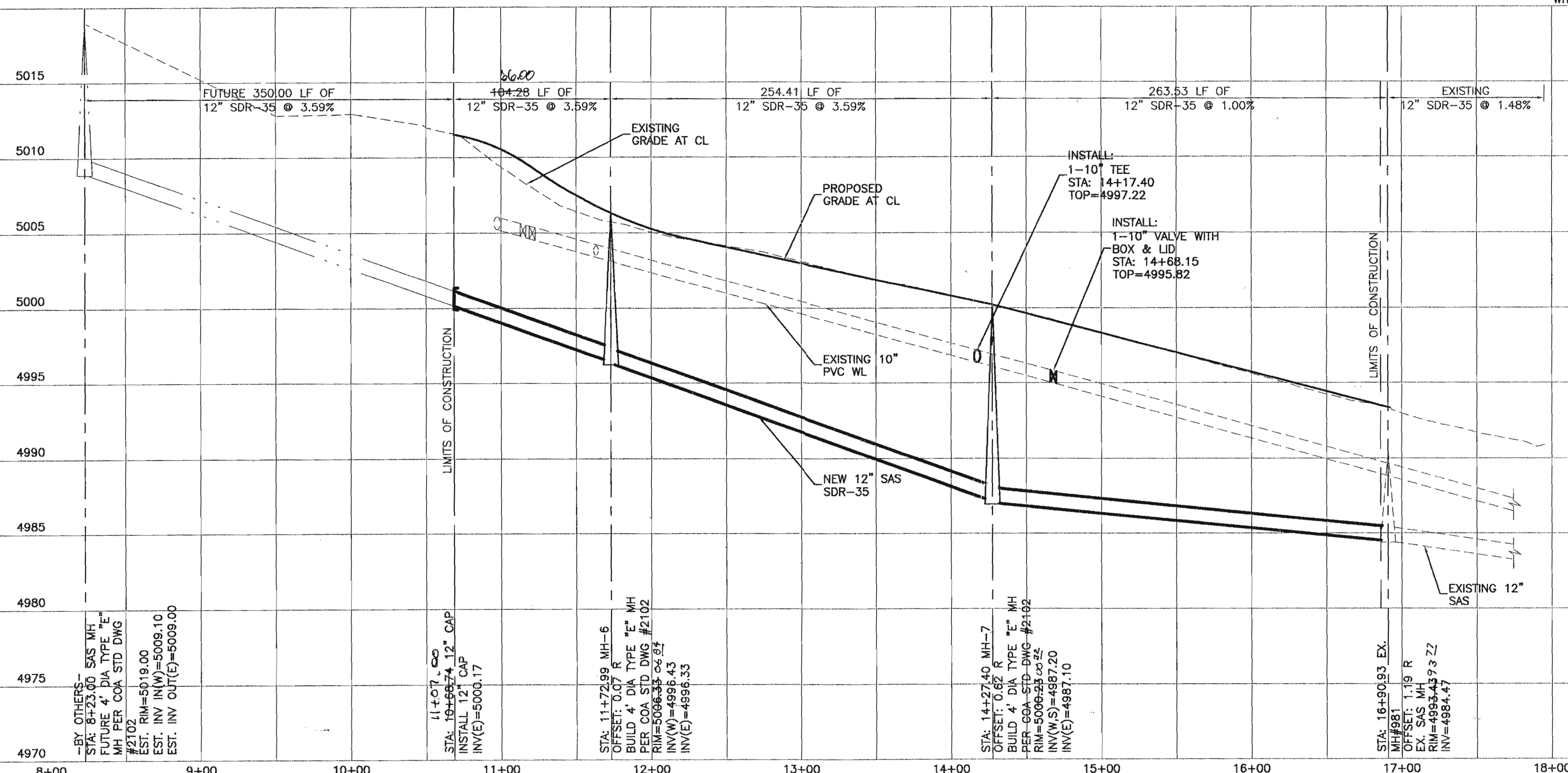
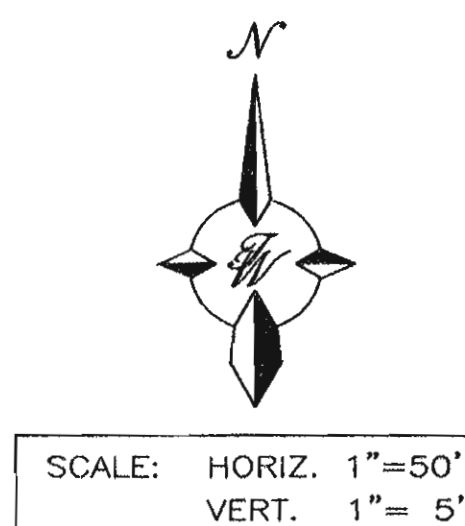
1. CENTERLINE OF LA ORILLA RD. R.O.W. IS BASIS OF STATIONING.

GENERAL NOTES:

- SEE MASTER UTILITY PLAN FOR SANITARY SEWER SERVICE CONNECTION DETAILS.
- ALL FIRE HYDRANTS ARE TO BE BUILT PER C.O.A. STD DWG #2340 W/FULL RESTRAINING AND INVERTS MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION OF UTILITIES.
- SEE MASTER UTILITY PLAN FOR RESTRAINING TABLE
- ALL MANHOLES TO BE BUILT PER COA STD. DWG #2102, UNLESS OTHERWISE NOTED.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

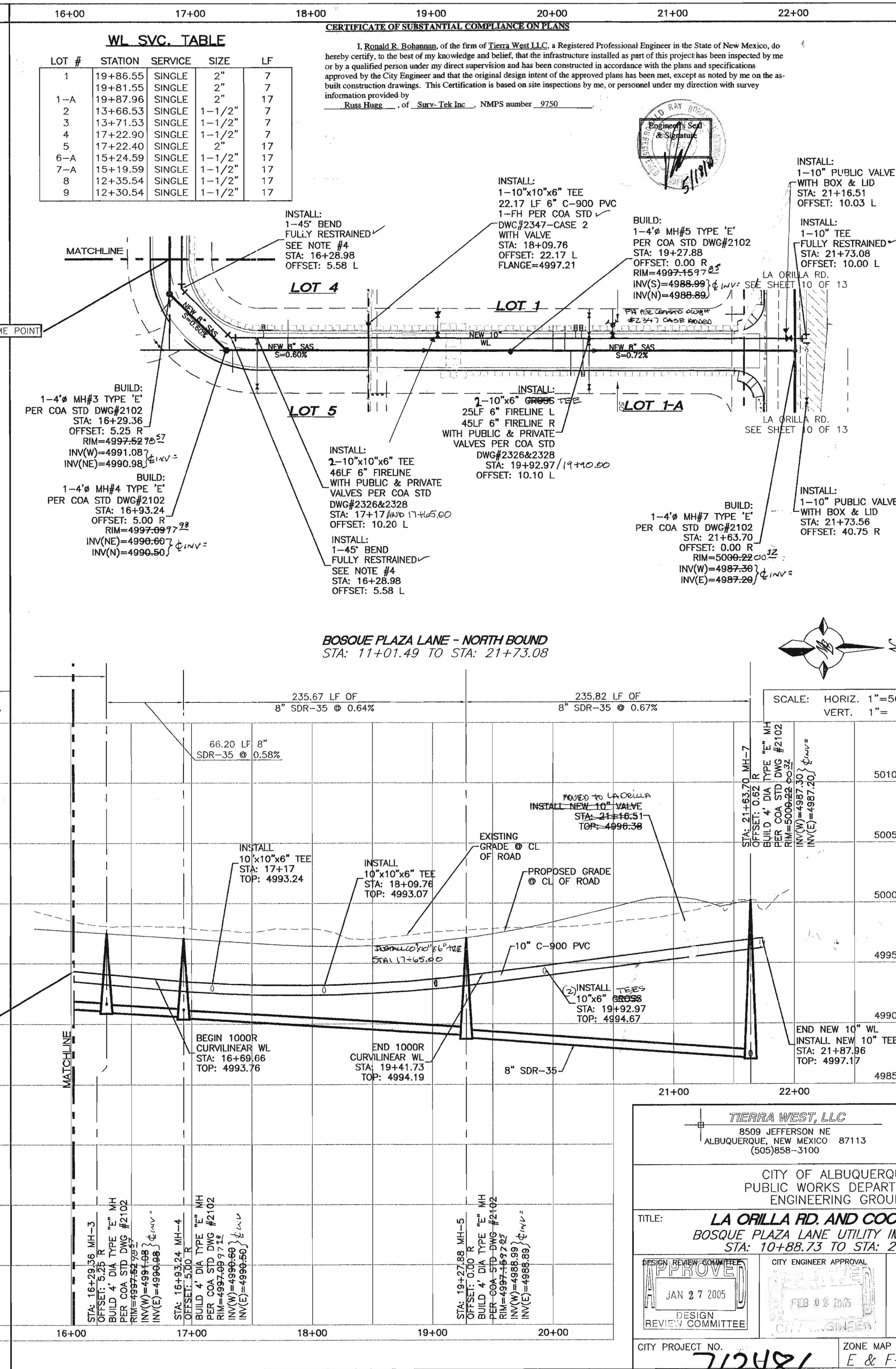
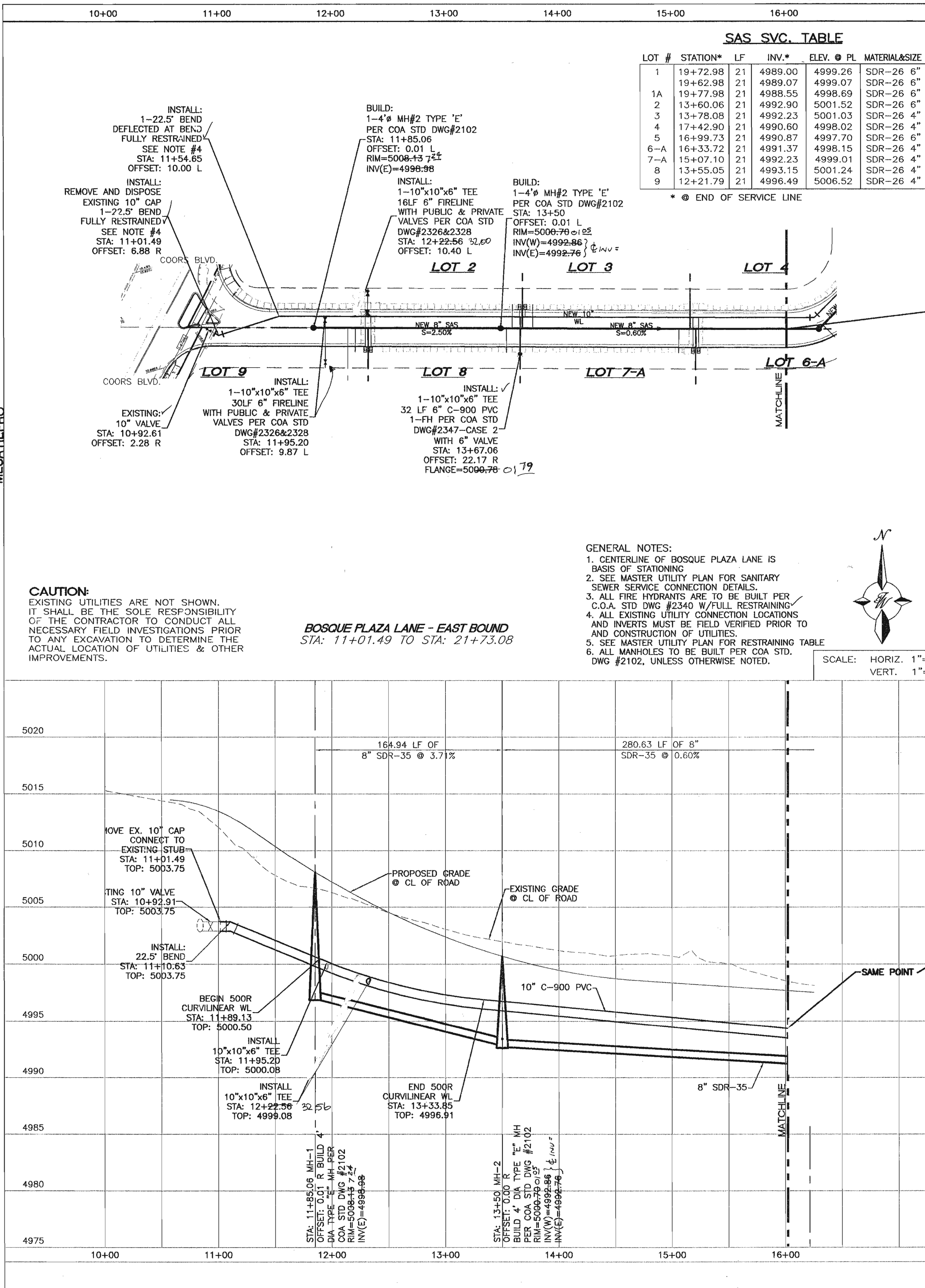
CAUTION:

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.



AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY: MP		DRAWN BY: MP		CHECKED BY: SJ/RRB	
CONTRACTOR	C.C./T	ACS	NM-448-NB	FIELD NOTES	DATE	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
INSPECTOR'S	STANDARD	NM STATE PLANE	COORDINATES	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
FIELD	DATE	Central Zone (NAD 29)	X=372524.25	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
VERIFICATION	DATE	Central Zone (NAD 29)	Y=1514838.11	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
CORRECTED	DATE	Central Zone (NAD 29)	G-S=0.99867854	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
MICRO-FILM	DATE	Central Zone (NAD 29)	Da=00'14"44"	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004
RECORDED	DATE	Central Zone (NAD 29)	ELEV=5018.922 (NAD 29)	NO.	BY	NO.	BY	NO.	DATE	DATE: 03-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004	DATE: 09-29-2004

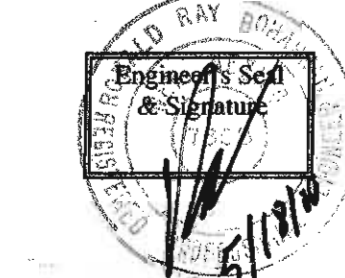
TIERRA WEST, LLC 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT	
TITLE: LA ORILLA RD. AND COORS BLVD. LA ORILLA RD. UTILITY IMPROVEMENTS STA: 10+68.74 TO STA: 16+90.87	
DESIGN REVIEW COMMITTEE APPROVED JAN 27 2005	CITY ENGINEER APPROVAL APPROVED FEB 02 2005
DESIGN REVIEW COMMITTEE	CITY ENGINEER
CITY PROJECT NO.	ZONE MAP NO. E&F-12
SHEET	OF 10 13



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

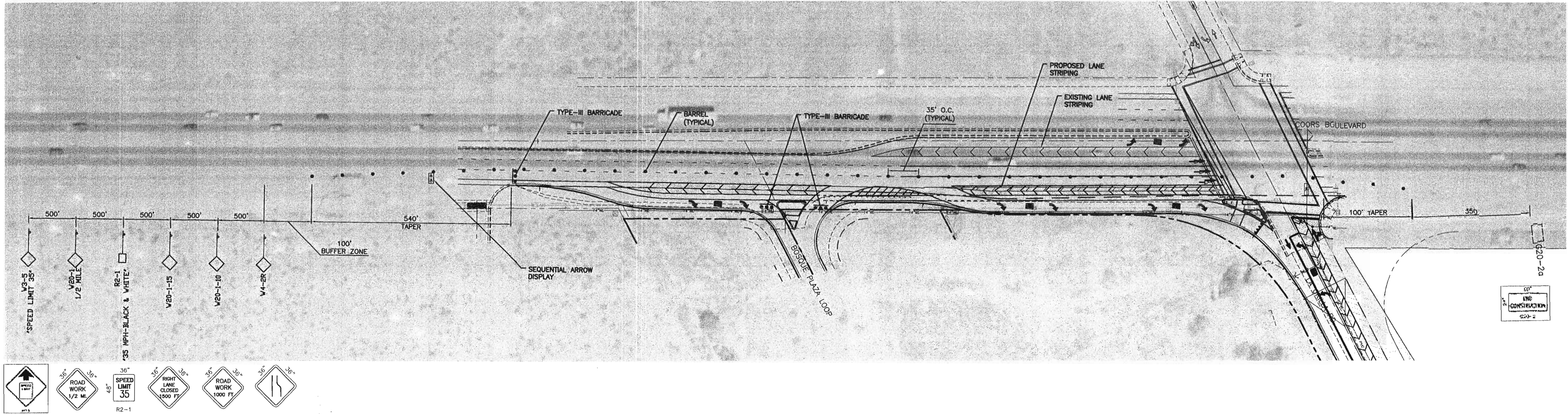
I, Ronald R. Bohannon, of the firm of Tierra West LLC, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct 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:

Russ Huggins, of Surv-Tek Inc., NMPS number 9750

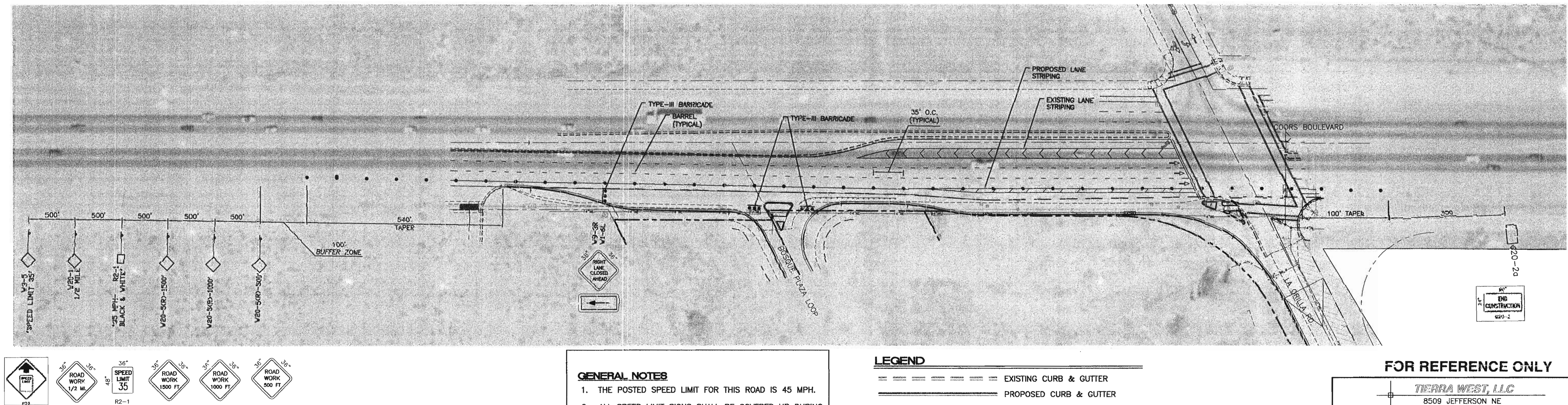


AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL				
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CONTRACTOR	DATE 2005	WORK	DATE 2005	ACS	DATE	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
CONTRACTOR	DATE 2005	WORK	DATE 2005	ACS	DATE	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
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CONTRACTOR	DATE 2005	WORK	DATE 2005	ACS	DATE	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
CONTRACTOR	DATE 2005	WORK	DATE 2005	ACS	DATE	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
CONTRACTOR	DATE 2005	WORK	DATE 2005	ACS	DATE	BY	DATE	NO.	BY	DATE	NO.	BY	DATE	NO.	BY	DATE
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CONTRACTOR	DATE 2005	WORK</														

WORKING HOURS TRAFFIC CONTROL PLAN



NON-WORKING HOURS TRAFFIC CONTROL PLAN

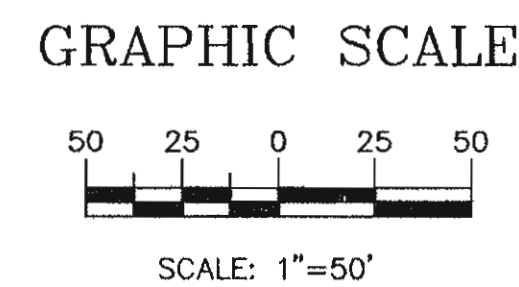


GENERAL NOTES

1. THE POSTED SPEED LIMIT FOR THIS ROAD IS 45 MPH.
2. ALL SPEED LIMIT SIGNS SHALL BE COVERED UP DURING CONSTRUCTION WITHIN WORK ZONE
3. THE CONTRACTOR SHALL PERFORM AS MUCH WORK AS POSSIBLE BEHIND THE EXISTING CURB AND GUTTER PRIOR TO AFFECTING TRAFFIC.
4. CONTRACTOR SHALL REMOVE ALL LANE CLOSURES AT THE END OF EACH WORK SHIFT IF THE ROADWAY IS SAFE TO DO SO.
5. WORK HOURS SHALL BE FROM 9:00 AM TO 3:00 PM ONLY.
6. COORDINATE ANY SIGNAL TIMING MODIFICATIONS WITH THE CITY OF ALBUQUERQUE TO KEEP TRAFFIC MOVING FREELY.
7. LANE CLOSURES ON COORS BLVD. WITHOUT WORK BEING PERFORMED IS GROUNDS FOR PERMIT REVOCATION.

LEGEND

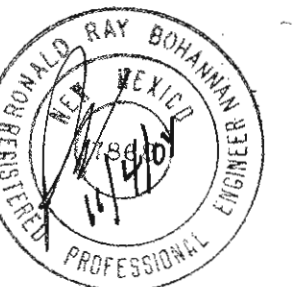
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- STREET LIGHTS
- TRAFFIC CONTROL BARREL
- TYPE-III BARRICADES
- NEW DIRECTIONAL TRAFFIC MARKINGS & BIKE LANE SYMBOL
- FUTURE DIRECTIONAL TRAFFIC MARKING
- EXISTING DIRECTIONAL TRAFFIC MARKING
- VEHICLE TRAVEL PATH

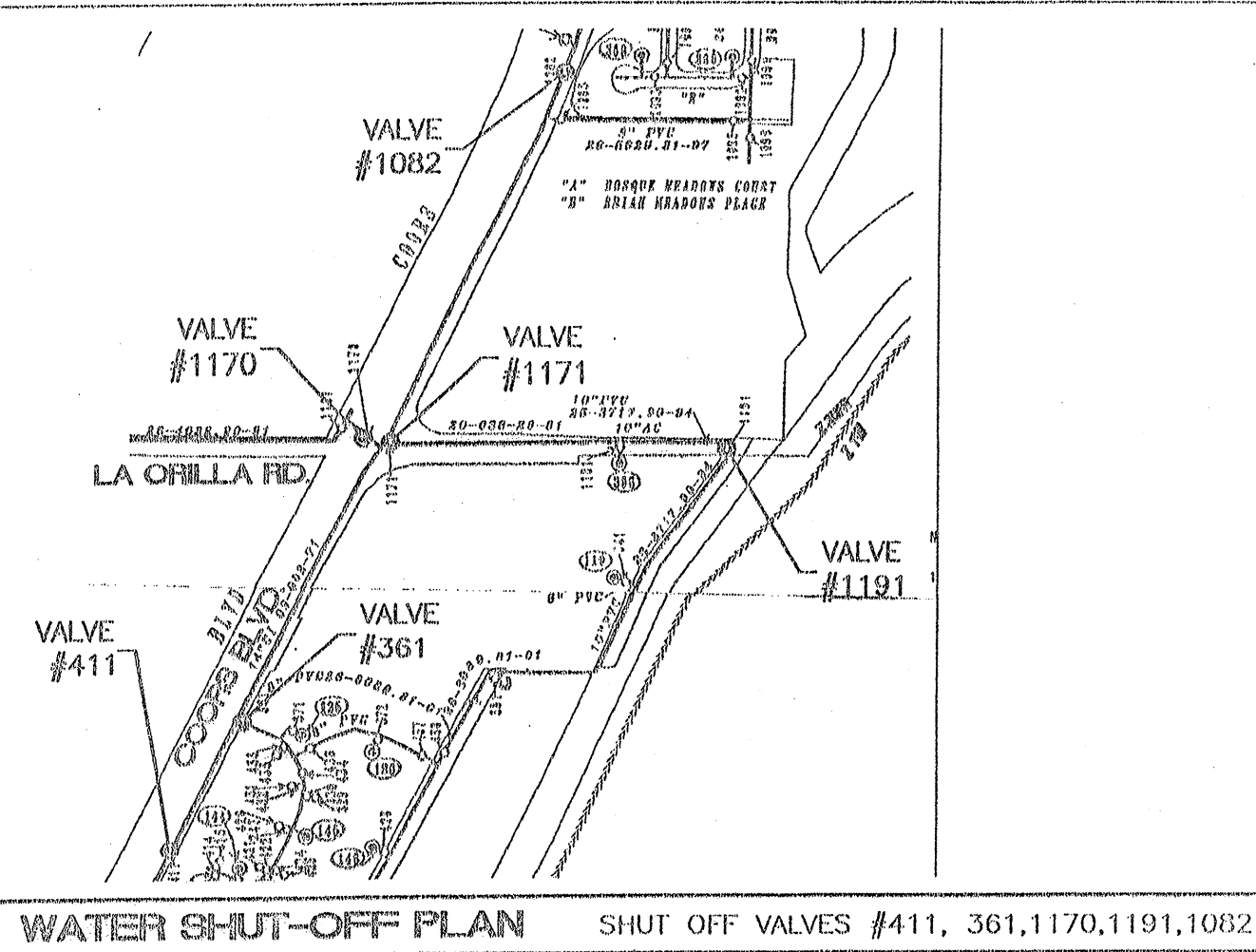


FOR REFERENCE ONLY

TERRA WEST, L.L.C. 8509 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87113 (505)858-3100	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: LA ORILLA RD. AND COORS BLVD. WORKING HOURS TRAFFIC CONTROL PLAN LA ORILLA ROAD AND COORS BOULEVARD	
DESIGN REVIEW COMMITTEE APPROVED JAN 27 2005 DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL APPROVED FEB 02 2005 CITY ENGINEER
CITY PROJECT NO. 713481	ZONE MAP NO. E & F - 12
DESIGNED BY: MP DRAWN BY: MP DRAWN NAME: 2074TCP.DWG CHECKED BY: SLV/RRB	REVISIONS DATE: 03-2004 DATE: 11-02-2004 DATE: 11-2004
SHEET 13 OF 13	

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE	BY	CONTRACTOR	NO.
				WORK BY	DATE
				INSPECTOR'S	DATE
				ACCEPTANCE BY	DATE
				VERIFICATION BY	DATE
				DRAWINGS	DATE
				NO. OF SHEETS	DATE
				RECORDED BY	DATE
				NO.	DATE





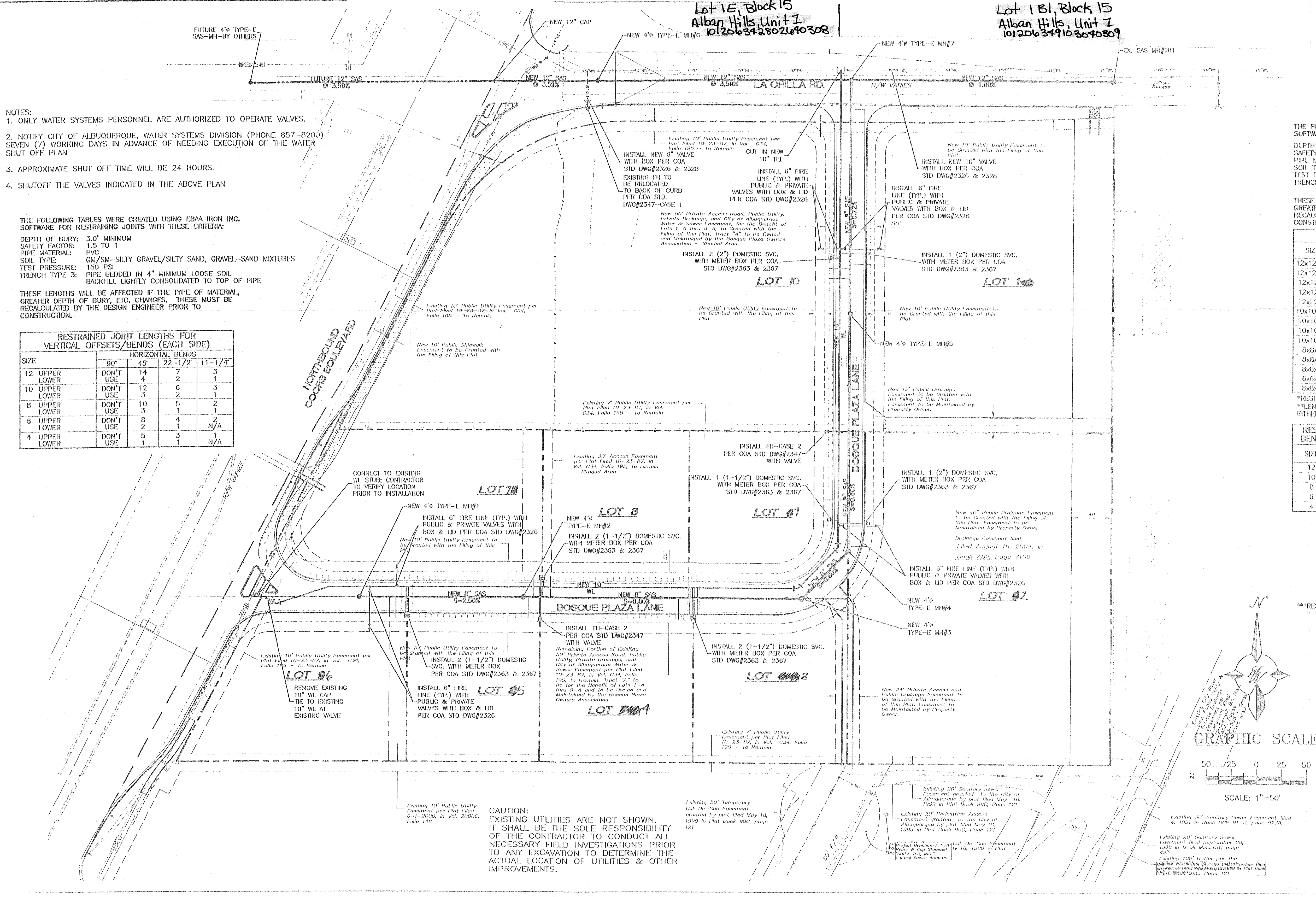
- NOTES:
1. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.
 2. NOTIFY CITY OF ALBUQUERQUE, WATER SYSTEMS DIVISION (PHONE 857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF NEEDING EXECUTION OF THE WATER SHUT OFF PLAN
 3. APPROXIMATE SHUT OFF TIME WILL BE 24 HOURS.
 4. SHUTOFF THE VALVES INDICATED IN THE ABOVE PLAN

THE FOLLOWING TABLES WERE CREATED USING EDMA 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: CM/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	90°	45°	22-1/2°	11-1/4°
12 UPPER	14	7	3	3
12 LOWER	4	2	1	1
10 UPPER	12	6	3	3
10 LOWER	3	2	1	1
8 UPPER	10	5	2	2
8 LOWER	3	1	1	1
6 UPPER	8	4	2	2
6 LOWER	2	1	1	1
4 UPPER	5	3	1	1
4 LOWER	1	1	1	1



THE FOLLOWING TABLES WERE CREATED USING EDMA IRON INC. SOFTWARE FOR RESTRAINING JOINTS WITH THESE CRITERIA:

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SIZE	LENGTH ALONG RUN**				
	5'	4'	3'	2'	1'
12x12x12	14	18	22	25	29
12x12x10	6	10	14	19	23
12x12x8	1	1	7	12	18
12x12x6	1	1	1	3	10
12x12x4	1	1	1	1	2
10x10x10	9	13	17	20	24
10x10x8	1	5	10	14	19
10x10x6	1	1	1	6	12
10x10x4	1	1	1	1	4
8x8x8	5	9	13	16	20
8x8x6	1	1	3	8	13
8x8x4	1	1	1	1	6
8x8x2	1	1	1	1	1

*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	HORIZONTAL BENDS				DEAD END
	90°	45°	22-1/2°	11-1/4°	
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

SIZE	L. SIDE	SIZE	L. SIDE
12x10	17	10x8	18
12x8	18	10x4	23
12x6	25	8x6	10
12x4	29	8x4	17
10x8	10	6x4	9

***RESTRAINTS ONLY PLACED ON LARGE LARGE SIDE

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: **LA ORILLA RD. AND COORS BLVD.**
MASTER UTILITY PLAN
S.E. CORNER OF LA ORILLA RD. & COORS BLVD.

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

CITY PROJECT NO. 713481 **ZONE MAP NO.** E-5-12 **SHEET** 9 **OF** 10



REVISIONS

NO.	DATE	REMARKS
1	03-2004	DESIGN
2	10-12-2004	
3	10-2004	

DESIGNED BY: MP **DATE:** 03-2004
DRAWN BY: MP **DATE:** 10-12-2004
DRAWN NAME: 2074UC-082104X.DWG
CHECKED BY: SL/RBB **DATE:** 10-2004