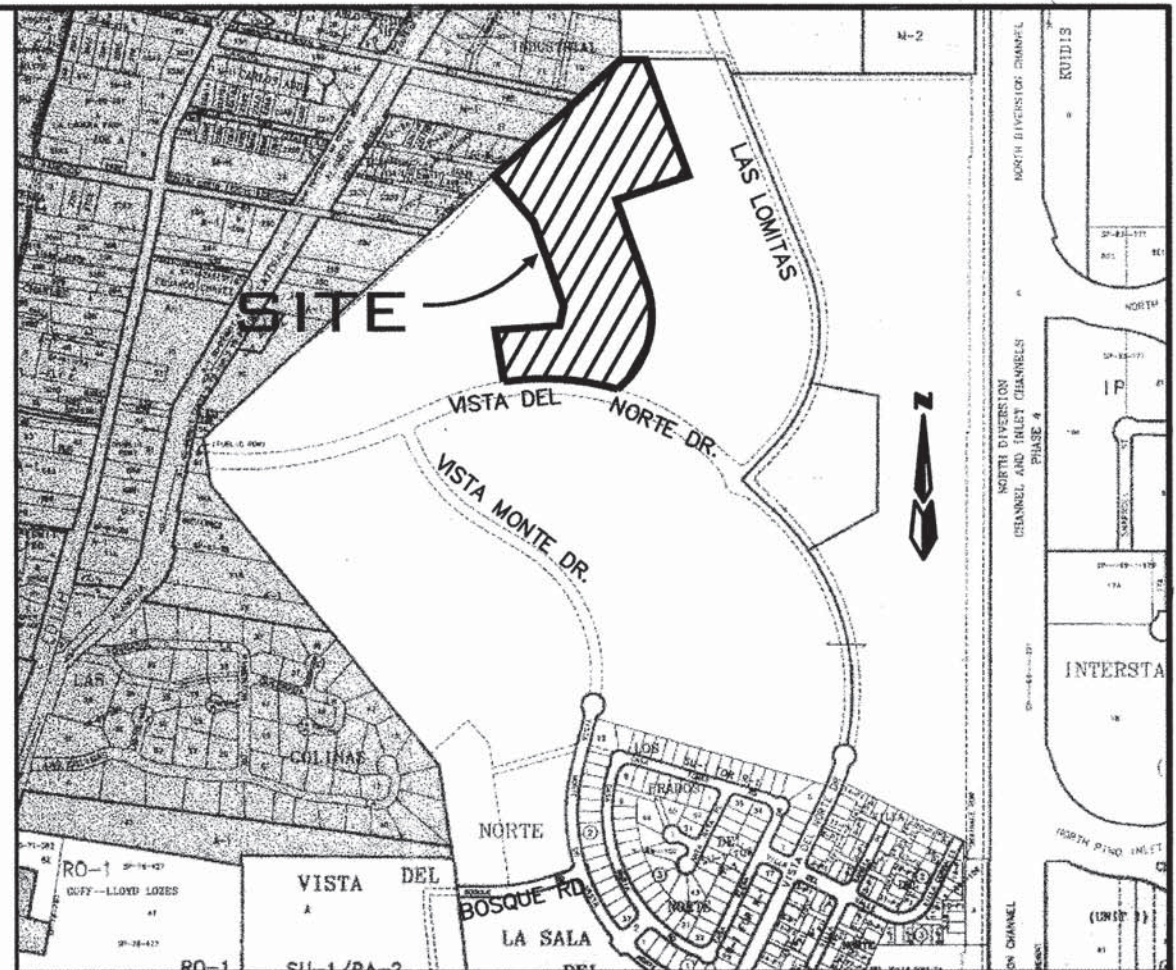


F:\A01005\A1005\VDN\UNIT 4\A1005COVER-4.dwg Mon Jan 06 06:15:38:54 2003 D. MARK GOODWIN & ASSOCIATES, PLT'D BY: ACH

SCANNED BY
MESA REPRO

CONSTRUCTION PLANS
FOR
VISTA DEL NORTE - UNIT 4
MESETA DEL NORTE - UNIT 2
SUBDIVISION
ALBUQUERQUE, NEW MEXICO



VICINITY MAP ZONE ATLAS D-16
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
 2. 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 AS REVISED THROUGH UPDATE #6.
 3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
 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 IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
 7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
 8. 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 TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
 10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
 11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
 12. FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE BY CITY.
- 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.
- ☒ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☐ IF CURB IS DEPRESSURED 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.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

dmg D. MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P. O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
[Signature]
DATE: *3/2/03*

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-4	PLAT
5	GRADING AND DRAINAGE PLAN
6	MASTER PAVING PLAN
7	CALLE COMODO
8	CALLE FUERTE
9	CALLE CARISMA
10	CALLE CORVO
11	CALLE PARAISO & CALLE OTONO
12	MASTER UTILITY PLAN
13	CALLE FUERTE
14	CALLE COMODO
15	CALLE CARISMA
16	CALLE CORVO
17	WATER DETAIL
18-19	TRAFFIC CONTROL

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., 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, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 10-29-03



DRB NO. **1001396**

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 08-06-03
Timothy Aldrich, P.S. No. 7719 Date



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC CHAIRMAN		<i>[Signature]</i>		2-7-03	
		TRANSPORTATION		<i>[Signature]</i>		1/23/03	
		WATER/WASTEWATER		<i>[Signature]</i>		1/23/03	
		HYDROLOGY		<i>[Signature]</i>		1/23/03	
		CIP		<i>[Signature]</i>		1/23/03	
		CONSTR. MNGMT.		<i>[Signature]</i>		2-7-03	
		CONSTR. COORD.		<i>[Signature]</i>		2-7-03	
		CITY PROJECT NO.		682685			
		SHEET OF		1 19			

PLAT FOR
MESETA DEL NORTE SUBDIVISION
UNIT 2
WITHIN THE
ELENA GALLEGOS GRANT
PROJECTED SECTIONS 22 AND 27
TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
DECEMBER, 2002

APPROVED AND ACCEPTED BY:

APPROVAL AND CONDITIONAL ACCEPTANCE as specified by the Albuquerque
subdivision Ordinance, Chapter 14 Article 14 of the Revised Ordinances of Albuquerque, New
Mexico, 1994.

DRB Project No. 1001396

Application No. _____

Planning Director, City of Albuquerque, N.M.

City Engineer, City of Albuquerque, N.M.

Albuquerque Metropolitan Arroyo Flood Control Authority

Transportation Development, City of Albuquerque, N.M.

Utility Development Division, City of Albuquerque, N.M.

Parks and Recreation

City Surveyor, City of Albuquerque, N.M.

Property Management, City of Albuquerque, N.M.

PNM Gas

PNM Electric

Qwest Telecommunications

Comcast Cable

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 this plat and description were prepared by me
or under my supervision, shows all easements as shown on the plat of record or made known
to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and
other parties expressing an interest and meet the minimum requirements for monumentation
and surveys of the Albuquerque Subdivision Ordinance, and further meets the minimum
Standards for Land Surveying in the State of New Mexico, and is true and correct to the best
of my knowledge and belief."

Timothy Aldrich P.S. No. 7719

Dwg.	Covering	Drawn	Checked	AS	Sheet	of
Scale:	1"=1"	Date:	12/18/02	Job:	AD1005	1 of 6

LEGAL DESCRIPTION

A Tract of land situate within the Elena Gallegos Grant, Projected Section 22, Township 11
North, Range 3 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County,
New Mexico Being all of Tract T-2-A-1-A-1 Meseta Del Norte Subdivision as the same is shown
and designated on said plat filed for record in the office of the county clerk of Bernalillo County,
New Mexico on May 16, 2002 in Book 2002C, Page 173 and containing 38.6574 Acres.

NOTES

1. Bearings are New Mexico State Plane Grid Bearings (Central Zone).
2. Distances are ground distances.
3. Bearings and distances are field and record.
4. Basis of boundary are the following plats (and documents) of record entitled:
PLAT FOR MESETA DEL NORTE SUBDIVISION (05-16-02, 2002C-173)
BULK PLAT FOR "TRACTS T-2-A-1-A, T-2-A-1-B, T-2-A-1-C, T-2-A-1-D, T-3-A, AND T-3-B,
VISTA DEL NORTE SUBDIVISION" (01-20-02, 2002C-31)
PLAT FOR "TRACTS T-2-A-1, T-2-A-2 VISTA DEL NORTE SUBDIVISION" (06-19-01,
2001C-171)
PLAT FOR "TRACTS T-2-A, T-2-B VISTA DEL NORTE SUBDIVISION" (02-22-01, 2001C-
56)
PLAT FOR "VISTA DEL NORTE" (03-16-99, 99C-57) PLAT FOR "VILLA DEL NORTE
SUBDIVISION" (07-22-98, 98C-209)
PLAT FOR LOS PACHOS DEL NORTE SUBDIVISION" (08-18-99, 99C-233)
PLAT FOR "TRACTS T-1-1, T-2, T-3 & T-4 VISTA DEL NORTE SUBDIVISION" (12-10-99,
99C-331)
all being records of Bernalillo County, New Mexico.
5. Field Survey performed November, 1998.
6. Unless otherwise noted all point are SET 56" REBAR WITH CAP "ALSLIS 7719" (TYP).
7. The City has the right to enter upon the grantors property at any time and perform whatever
inspection, installation, maintenance, repair, modification or removal ("work") it deems
appropriate without liability to the city. If the work effects any improvements or
encroachments made by the grantor, the city will not be financially or otherwise responsible
for rebuilding or repairing of improvements or encroachments. If in the opinion of the city
the work to be performed by the city could endanger the structural integrity or otherwise
damage the improvements or encroachments, the grantor shall at its own expense, take
whatever protective measures are required to safeguard the improvements or
encroachments.
8. Tract "A" is to be owned and maintained by the Vista Del Norte Homeowner's Association.

LOCATION MAP
ZONE ATLAS D-16Z
SCALE: NONE

SUBDIVISION DATA
Plat Case No. Project #1001396
Gross acreage 38.6574 AC
Zone Atlas No. D-16Z
No. of existing Tract lots 1 TRACTS
No. of Tract lots created 1 TRACT/68 LOTS
Miles of full width streets created 0.56
Area dedicated to the City of Albuquerque 3.5645 AC
Date of Survey NOVEMBER, 1998
Utility Control Location System Log Number: 99092909100192

FREE CONSENT AND DEDICATION.

The subdivision hereon described is with the free consent and in accordance with the
desires of the undersigned owner(s) and/or proprietor(s) thereof and said owner(s)
and/or proprietor(s) do hereby dedicate all streets, public right-of-ways shown hereon
to the City of Albuquerque in fee simple with warranty covenants and do hereby grant
all access, utility and drainage easements shown hereon including the right to
construct, operate, inspect, and maintain facilities therein, and all public utility
easements shown hereon for the common and joint use of gas, electrical power and
communication services for buried distribution lines, conduits, and pipes for
underground utilities where shown or indicated, and including the right of ingress and
egress for construction and maintenance, and the right to trim interfering trees and
shrubs. Said owner(s) and/or proprietor(s) do hereby consent to all of the foregoing
and do hereby certify that this subdivision is their free act and deed. Said owner(s)
warrant that they hold among them complete and indefeasible title to the land
subdivided.

VISTA DEL NORTE DEVELOPMENT, LLC:

By: JOHN A. MYERS, ASSISTANT MANAGER PRO TEM:

JOHN A. MYERS, ASSISTANT MANAGER PRO TEM: 12/19/02 DATE

OWNER'S ACKNOWLEDGMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO

This instrument was acknowledged before me on Dec. 19, 2002
By John A. Myers, Assistant Manager Pro Tem Vista Del Norte Development, LLC A
New Mexico company on behalf of said company

Notary Public 11-18-2005
MY COMMISSION EXPIRES

OFFICIAL SEAL
KAREN LEE ARFMAN
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 11/18/05

CURVE	LENGTH	RADIUS	TANGENT	CH-BE-ANNA-CH-1	CH-1
C1	823.09	716.00	65.51.55"	463.78	N172°44'0"E
C2	777.24	1066.00	41°46.31"	408.80	N67°32.50"W
C3	16.10	1300.00	0°42.35"	8.05	N69°07.40"W
C4	133.32	1410.00	5°25.03"	66.71	N69°07.40"W
C5	28.09	2477.00	0°38.59"	14.04	S64°04.38"W
C6	802.03	1100.00	41°46.31"	418.28	N67°32.50"W
C7	231.20	1100.00	12°07.33"	116.03	N67°32.50"W
C8	570.03	1100.00	29°43.58"	292.00	N67°32.50"W
C9	531.69	566.00	43°46.19"	282.28	N67°32.50"W
C10	139.13	500.00	19°56.57"	70.02	S59°30.32"W
C11	267.69	2900.00	6°08.06"	133.97	S60°20.17"W
C12	256.36	2933.00	5°53.24"	128.79	S60°20.50"W

LINE	BEARING	DISTANCE
L1	S22°31'09"E	66.49
L2	S89°48'21"E	35.86
L3	N67°28'51"E	68.00
L4	N07°34'13"E	68.00
L5	S90°42'27"E	120.08
L6	N07°21'13"E	46.00
L7	N02°38'39"E	115.00
L8	S80°16'59"E	53.59
L9	S83°46'16"E	61.27
L10	N05°13'44"E	2.88

LINE	BEARING	DISTANCE
L11	N83°46'16"W	46.00
L12	N12°34'51"E	85.29
L13	N45°14'51"W	94.95
L14	M44°35'52"W	200.23
L15	S40°27'46"E	123.56
L16	S89°32'18"W	45.37
L17	S20°43'08"W	43.03
L18	N67°28'51"E	28.00
L19	N63°31'37"E	43.10

PLAT FOR
MESETA DEL NORTE SUBDIVISION
UNIT 2
WITHIN THE
ELENA GALLEGOS GRANT
PROJECTED SECTIONS 22 AND 27
TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
DECEMBER, 2002

TRACT A
BERNARDO TRAILS UNIT 1
(FILED: 12-03-01, 2001C-314)

EXISTING 30' PUBLIC
SANITARY SEWER EASEMENT
AND 30' AMATECA ACCESS
EASEMENT (FILED 12/10/99
BK. 99C, PG-331)

TRACT T-1
VISTA DEL NORTE
FILED: 12/10/99 VOL. 99C FOLIO 331

TRACT U
FILED 03/16/99 BK. 99C,
PG-57

ACS MONUMENT "NAA-9"
Y=1,518,711.30, X=394,134.18
G-G=0.99967037
Δα=00°12'15",
CENTRAL ZONE, (NAD 1927)
ELEVATION=5089.27 (SLD 1929)

EXISTING 30' PUBLIC WATERLINE &
SANITARY SEWER EASEMENT (FILED
03/16/99 BK. 99C, PG-57)

TRACT T-2-A-1-A-1
(34.6574 AC.)

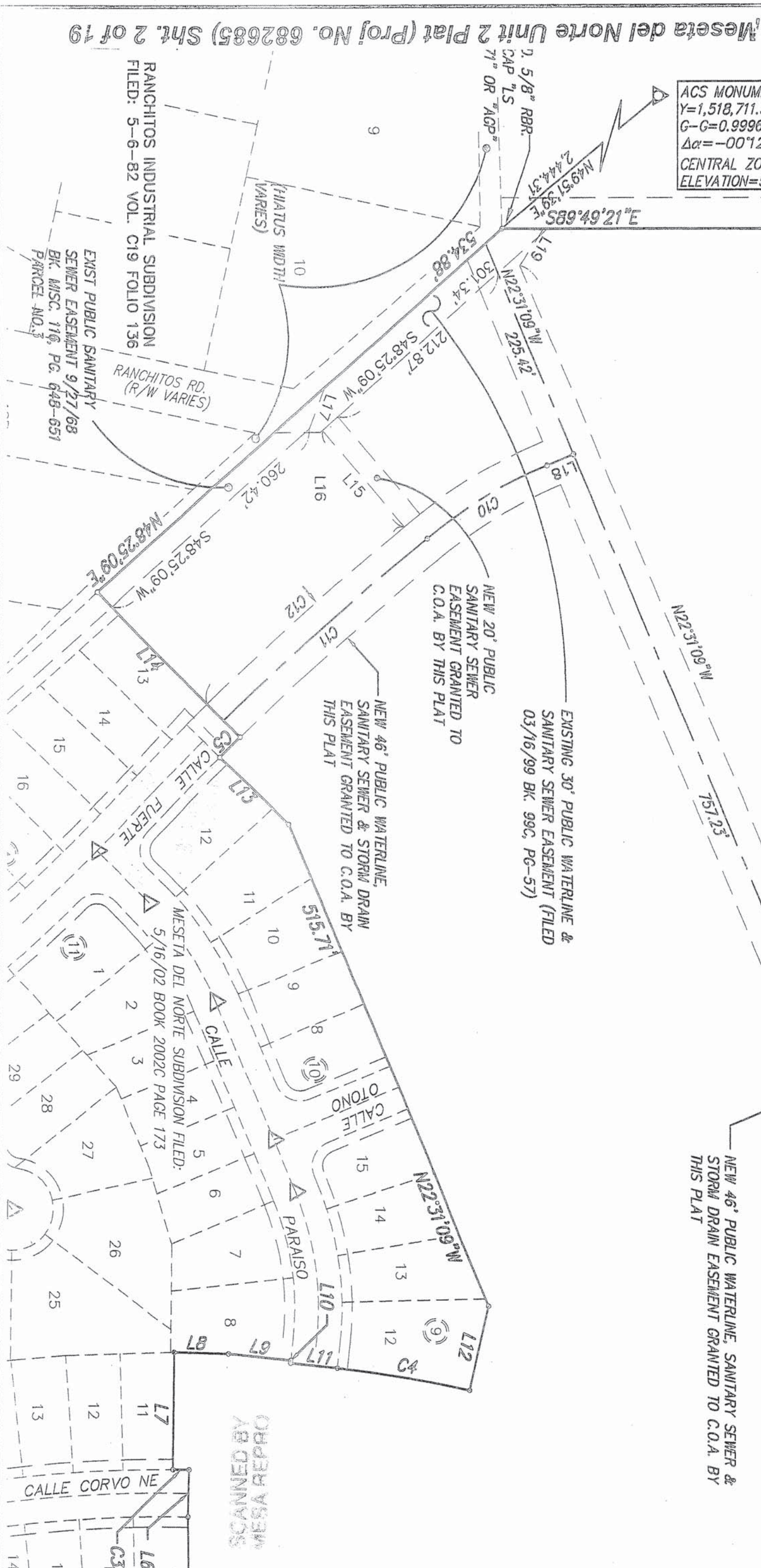
NEW 46" PUBLIC WATERLINE, SANITARY SEWER &
STORM DRAIN EASEMENT GRANTED TO C.O.A. BY
THIS PLAT

LEGEND
△ FIND CITY OF ALBUQUERQUE
CONTROL SURVEY MONUMENT
• FIND PROPERTY CORNER,
5/8" REBAR W/CAP "ALS LS 7719" (TYP)
— DENOTES EXISTING EASEMENT

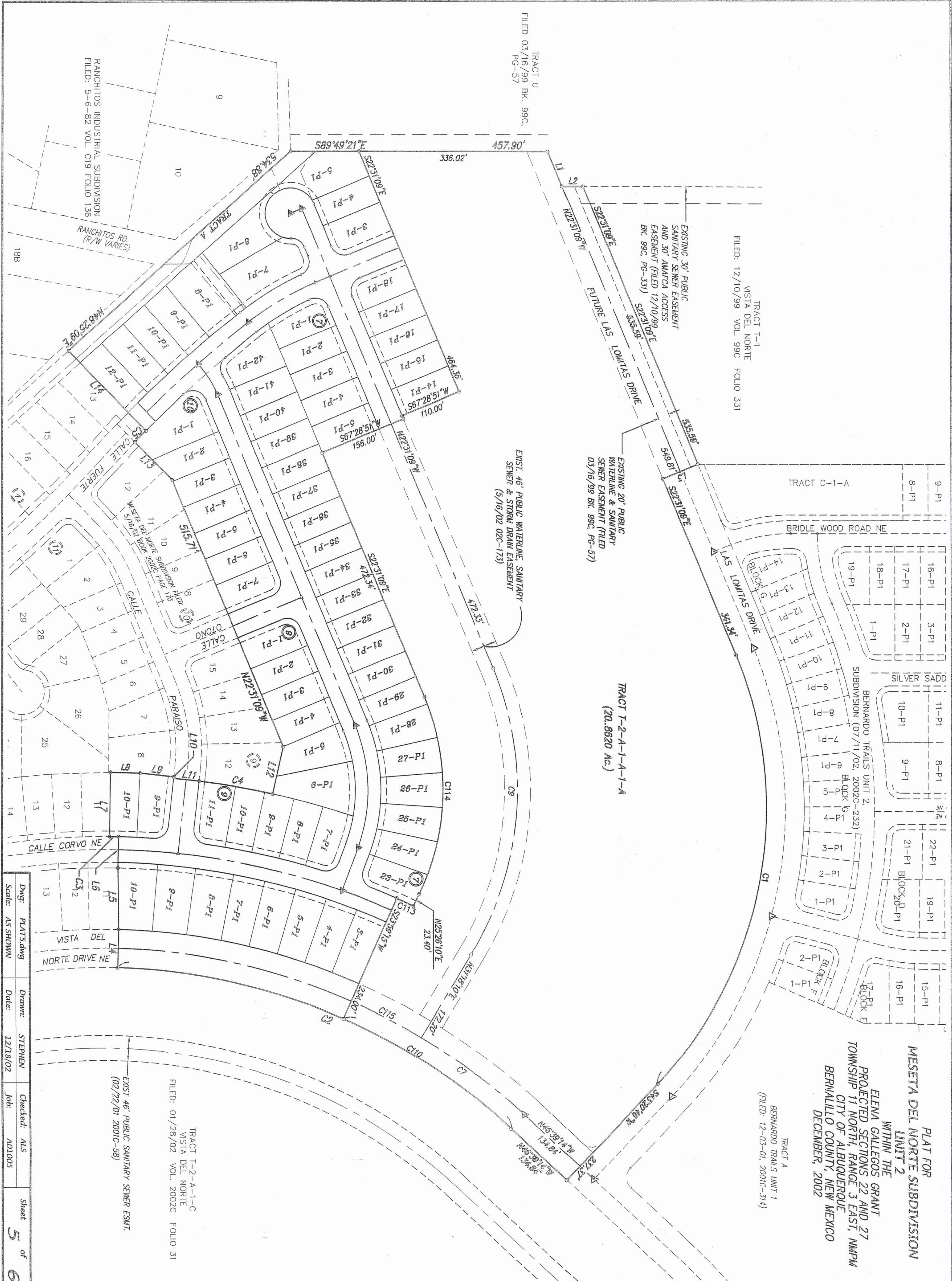
100' 50' 0' 100' 200'
SCALE: 1" = 100'

TRACT T-2-A-1-C
VISTA DEL NORTE
FILED: 01/28/02 VOL. 2002C FOLIO 31

EXIST 46" PUBLIC SANITARY SEWER ESMT.
(02/22/01 2001C-58)



Dwg.	plata.dwg	Drawn:	STEPHEN	Checked:	ALS	Sheet	2 of 6
Scale:	AS SHOWN	Date:	12/18/02	Job:	AD1005		



Dwg: PLAT.dwg	Drawn: STEPHEN	Checked: ALS	Sheet 5 of 6
Scale: AS SHOWN	Date: 12/18/02	Job: A01005	

PLAT FOR
MESETA DEL NORTE SUBDIVISION
UNIT 2
WITHIN THE
ELENA GALLEGOS GRANT
PROJECTED SECTIONS 22 AND 27
TOWNSHIP 11 NORTH, RANGE 3 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
DECEMBER, 2002

CURVE	LENGTH	RADIUS	DEG. IN.	TANGENT BY-BEFORE-CH-DIST.
C28	68.26	2477.00	1.98 07	34.63 S68°55'43"W 68.26
C29	127.46	533.00	1.95 47	63.05 S69°31'07"W 127.46
C30	111.69	477.00	1.07 00	56.10 S69°14'14"W 111.69
C31	26.62	409.50	8.09 53	24.60 S69°14'14"W 26.62
C32	33.00	323.00	4.97 17	124.89 N02°35'48"W 33.00
C33	204.40	272.00	4.97 17	102.11 N01°22'46"W 202.80
C34	48.80	1300.00	2.09 03	24.40 N67°05'17"W 48.80
C35	212.82	1300.00	9.92 47	108.65 N77°00'18"W 212.82
C36	405.40	1300.00	22.93 05	250.97 N77°49'48"W 402.18
C37	63.51	1300.00	2.97 57	31.76 N69°14'48"W 63.51
C38	412.09	1086.00	22.93 05	214.24 N77°31'16"W 440.85
C39	580.18	1086.00	19.21 38	255.58 N78°35'16"W 580.18
C40	580.18	1086.00	19.21 38	255.58 N78°35'16"W 580.18
C41	56.27	1410.00	2.17 54	28.24 N22°30'23"W 56.27
C42	32.87	1300.00	1.26 55	16.44 N65°17'16"W 32.87
C43	302.41	433.00	4.75 19	192.59 N01°27'30"E 351.93
C45	740.44	1100.00	7.19 55	70.37 S62°11'55"E 140.35

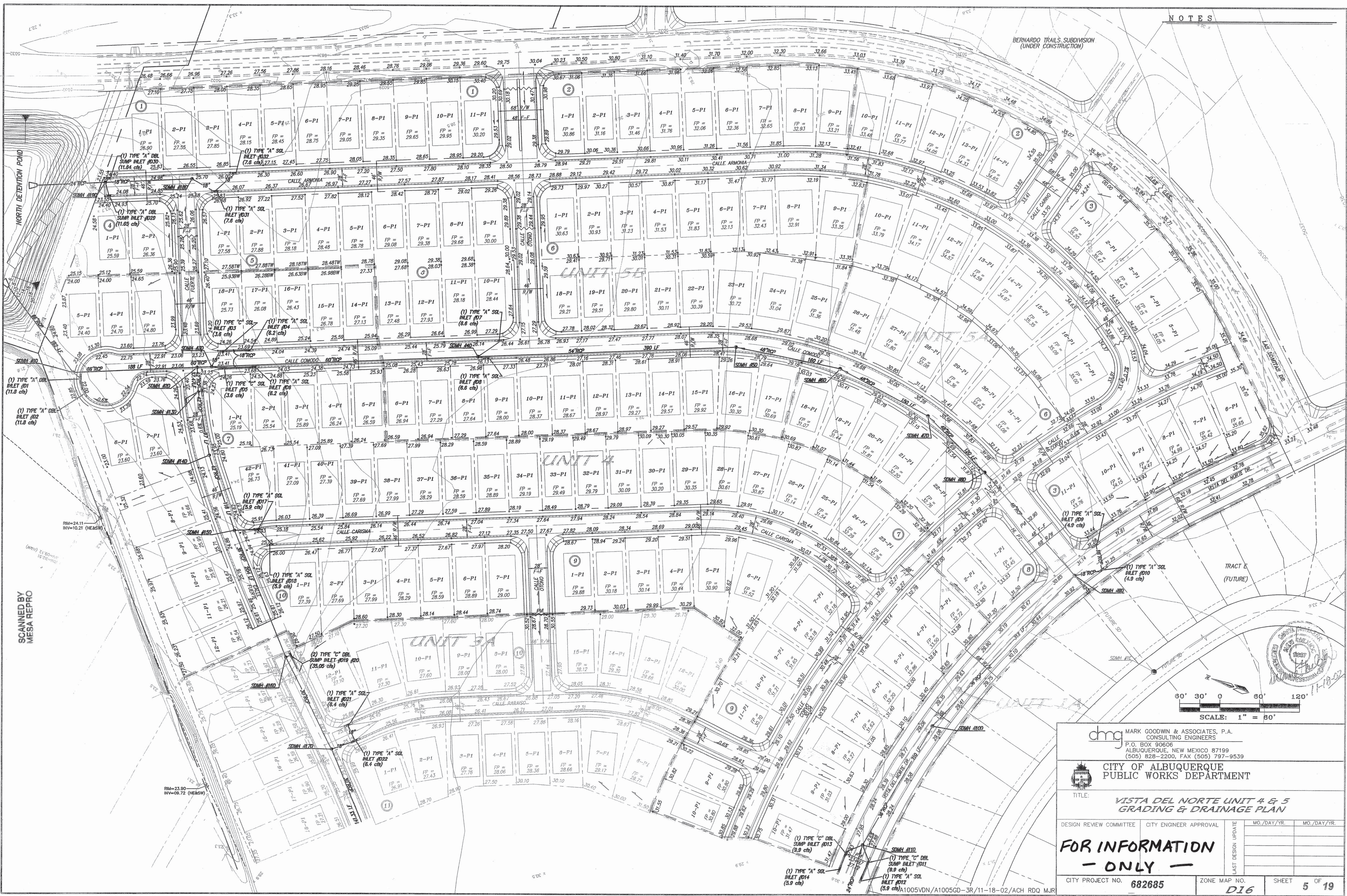
LINE	LENGTH	RADIUS	DEG. IN.	TANGENT BY-BEFORE-CH-DIST.
L1	68.26	2477.00	1.98 07	34.63 S68°55'43"W 68.26
L2	127.46	533.00	1.95 47	63.05 S69°31'07"W 127.46
L3	111.69	477.00	1.07 00	56.10 S69°14'14"W 111.69
L4	26.62	409.50	8.09 53	24.60 S69°14'14"W 26.62
L5	33.00	323.00	4.97 17	124.89 N02°35'48"W 33.00
L6	204.40	272.00	4.97 17	102.11 N01°22'46"W 202.80
L7	48.80	1300.00	2.09 03	24.40 N67°05'17"W 48.80
L8	212.82	1300.00	9.92 47	108.65 N77°00'18"W 212.82
L9	405.40	1300.00	22.93 05	250.97 N77°49'48"W 402.18
L10	63.51	1300.00	2.97 57	31.76 N69°14'48"W 63.51
L11	412.09	1086.00	22.93 05	214.24 N77°31'16"W 440.85
L12	580.18	1086.00	19.21 38	255.58 N78°35'16"W 580.18
L13	580.18	1086.00	19.21 38	255.58 N78°35'16"W 580.18
L14	56.27	1410.00	2.17 54	28.24 N22°30'23"W 56.27
L15	32.87	1300.00	1.26 55	16.44 N65°17'16"W 32.87
L16	302.41	433.00	4.75 19	192.59 N01°27'30"E 351.93
L17	740.44	1100.00	7.19 55	70.37 S62°11'55"E 140.35

CURVE	LENGTH	RADIUS	DEG. IN.	TANGENT BY-BEFORE-CH-DIST.
C1	823.69	716.00	6.51 55	463.78 N02°14'41"E 770.51
C2	777.24	716.00	41°46'31"	405.80 N67°39'36"W 760.14
C3	16.10	1300.00	0°42'35"	8.05 N69°07'00"W 16.10
C4	133.32	1100.00	5°35'03"	66.71 N69°07'00"W 133.32
C5	288.09	2477.00	0°39'58"	16.04 S69°14'14"W 288.09
C6	213.20	1100.00	1°09'33"	116.03 N69°30'31"W 288.38
C7	570.81	1100.00	2°34'38"	292.00 N23°13'46"W 564.44
C8	531.69	566.00	53°49'17"	287.28 N02°31'30"E 512.45
C9	138.13	500.00	15°56'17"	70.02 S69°30'31"W 138.69
C10	287.69	2600.00	6°09'06"	133.97 S49°28'11"W 282.56
C11	256.36	2633.00	5°33'24"	126.79 S49°28'11"W 259.25
C12	38.27	25.00	60°00'00"	25.00 S67°10'19"E 35.35
C13	30.14	25.00	69°04'31"	11.21 N67°10'19"E 35.35
C14	30.14	25.00	69°04'31"	11.21 N67°10'19"E 35.35
C15	84.88	45.00	1°02'34'05"	70.88 S1°35'37"E 78.16
C16	114.57	523.00	12°31'06"	57.52 S69°13'26"W 114.34
C17	26.63	477.00	1°39'36"	13.47 S63°10'16"W 26.63
C18	71.77	2477.00	1°39'36"	35.89 S69°42'26"W 71.77
C19	35.10	25.00	80°26'21"	21.14 S69°39'26"W 32.29
C20	28.50	203.00	80°26'21"	14.27 N66°39'27"W 28.42
C21	13.31	433.00	1°45'46"	6.64 N67°39'15"W 62.26
C22	62.32	433.00	8°14'45"	31.21 N69°23'14"W 62.26
C23	62.32	433.00	8°14'45"	31.21 N69°23'14"W 62.26
C24	62.32	433.00	8°14'45"	31.21 N69°23'14"W 62.26
C25	61.67	433.00	8°09'38"	30.89 N67°19'29"E 61.62
C26	38.15	433.00	5°02'32"	19.09 N22°34'44"E 39.14
C27	61.67	1300.00	3°35'39"	40.85 N69°21'49"W 61.66
C28	38.15	25.00	87°55'28"	24.11 S67°12'05"E 38.17
C29	42.41	323.00	7°31'59"	21.05 S69°39'19"E 46.45
C30	42.41	323.00	7°31'59"	21.05 S69°39'19"E 46.45
C31	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C32	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C33	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C34	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C35	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C36	46.49	323.00	8°14'45"	23.28 N69°23'14"W 46.45
C37	9.91	323.00	1°45'46"	4.97 N67°39'15"W 9.94
C38	51.67	1134.00	2°35'39"	25.64 N67°19'29"E 51.67
C39	51.67	1134.00	2°35'39"	25.64 N69°35'44"W 51.67
C40	51.67	1134.00	2°35'39"	25.64 N69°35'44"W 51.67
C41	51.67	1134.00	2°35'39"	25.64 N69°35'44"W 51.67
C42	51.67	1134.00	2°35'39"	25.64 N69°35'44"W 51.67
C43	62.22	1134.00	3°08'36"	31.12 N69°35'44"W 62.22
C44	62.22	1134.00	3°08'36"	31.12 N69°35'44"W 62.22
C45	60.89	1134.00	3°04'36"	30.45 N69°35'44"W 60.89
C46	57.14	1254.00	2°35'39"	28.59 N67°19'29"E 57.14
C47	57.14	1254.00	2°35'39"	28.59 N69°35'44"W 57.14
C48	57.14	1254.00	2°35'39"	28.59 N69°35'44"W 57.14
C49	57.14	1254.00	2°35'39"	28.59 N69°35'44"W 57.14
C50	57.14	1254.00	2°35'39"	28.59 N69°35'44"W 57.14
C51	57.14	1254.00	2°35'39"	28.59 N69°35'44"W 57.14
C52	68.61	1254.00	3°08'36"	34.41 N69°35'44"W 68.60
C53	72.07	1254.00	3°17'15"	36.05 N67°00'03"W 72.05
C54	48.25	1300.00	2°10'14"	24.63 N69°16'15"W 48.25
C55	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C56	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C57	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C58	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C59	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C60	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C61	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C62	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C63	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C64	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C65	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C66	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C67	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C68	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C69	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C70	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C71	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C72	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C73	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C74	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C75	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C76	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C77	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C78	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C79	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C80	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C81	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C82	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C83	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C84	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C85	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C86	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C87	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C88	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C89	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C90	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C91	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C92	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C93	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C94	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C95	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C96	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C97	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C98	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C99	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35
C100	30.36	1300.00	1°20'17"	15.18 N72°59'05"E 30.35

SCANNED BY
MESA REPRO

Dwg: PLAT.dwg	Drawn: STEPHEN	Checked: ALS	Sheet 6 of 6
Scale: AS SHOWN	Date: 12/18/02	Job: A01005	

BERNARDO TRAILS SUBDIVISION
(UNDER CONSTRUCTION)



SCANNED BY
MESA REPRO

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



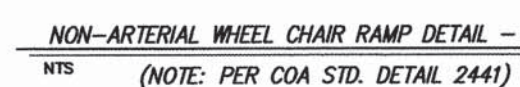
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **VISTA DEL NORTE UNIT 4 & 5
GRADING & DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

**FOR INFORMATION
- ONLY -**

CITY PROJECT NO. **682685** ZONE MAP NO. **D16** SHEET **5** OF **19**



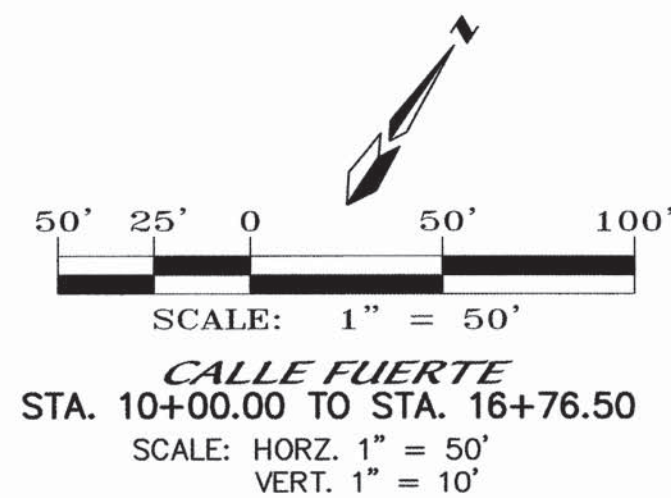
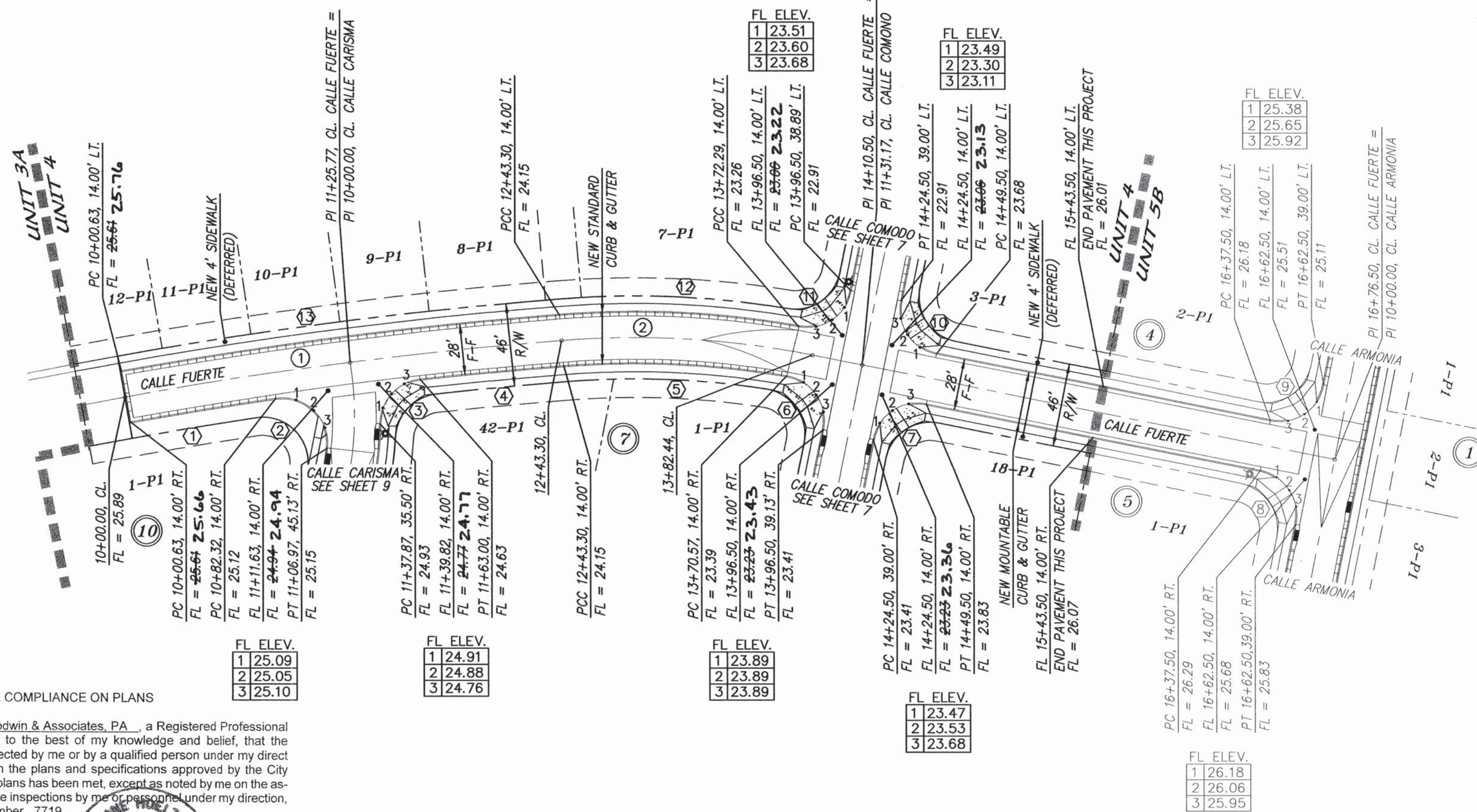
SHEET OF

SCANNED BY
MESA REPRO

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, 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, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 10-29-03



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

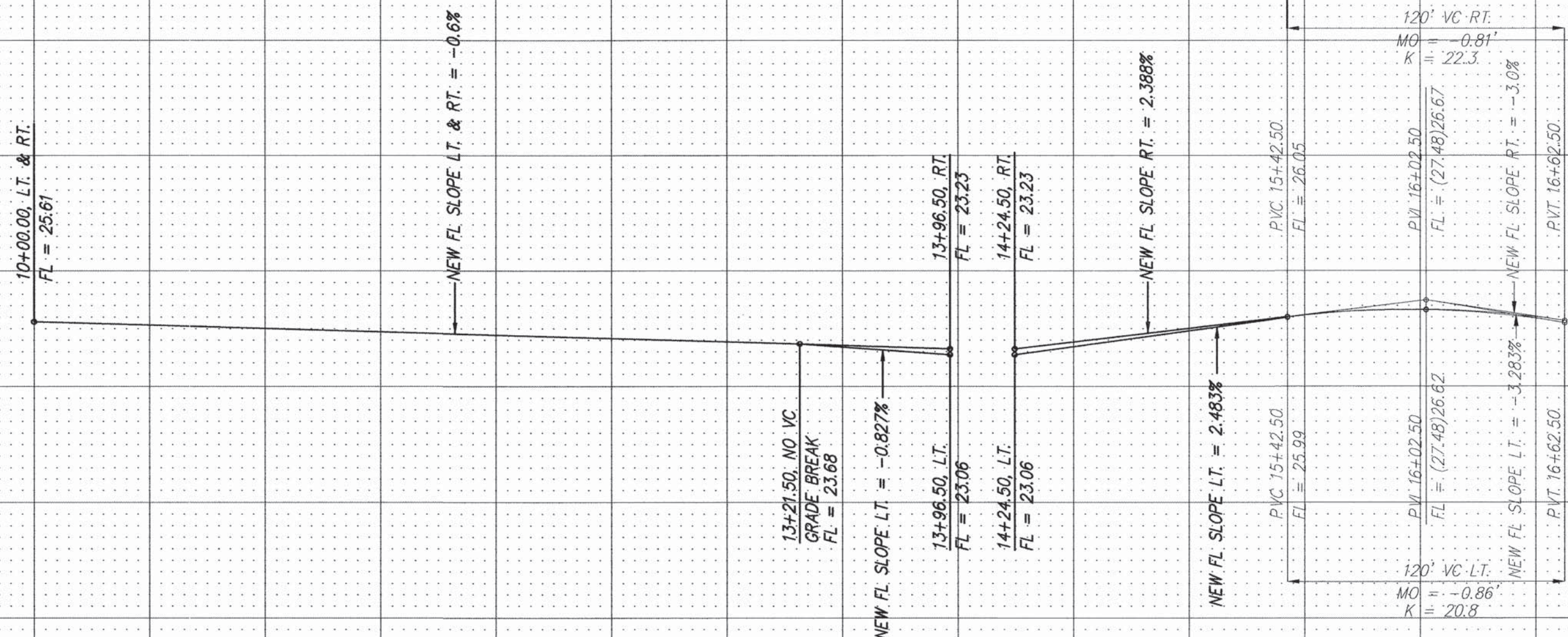
- | | |
|--|---|
| ① $\Delta = 152'20''$
$R = 2486.00'$
$L = 81.23'$
$T = 40.62'$ | ② $\Delta = 104'29'09''$
$R = 25.00'$
$L = 45.59'$
$T = 32.28'$ |
| ③ $\Delta = 82'14'29''$
$R = 25.00'$
$L = 35.88'$
$T = 21.82'$ | ④ $\Delta = 150'26''$
$R = 2486.00'$
$L = 79.86'$
$T = 39.93'$ |
| ⑤ $\Delta = 14'35'02''$
$R = 486.00'$
$L = 123.71'$
$T = 62.19'$ | ⑥ $\Delta = 91'21'35''$
$R = 25.00'$
$L = 39.86'$
$T = 25.60'$ |
| ⑦ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ | ⑧ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ |
| ⑨ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ | ⑩ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ |
| ⑪ $\Delta = 88'50'14''$
$R = 25.00'$
$L = 38.76'$
$T = 24.50'$ | ⑫ $\Delta = 14'46'51''$
$R = 514.00'$
$L = 132.60'$
$T = 66.67'$ |
| ⑬ $\Delta = 5'33'43''$
$R = 2514.00'$
$L = 244.04'$
$T = 122.12'$ | |

CURVE DATA - DESCRIBES CENTERLINE

- | | |
|--|---|
| ① $\Delta = 5'34'34''$
$R = 2500.00'$
$L = 243.30'$
$T = 121.75'$ | ② $\Delta = 15'56'37''$
$R = 500.00'$
$L = 139.13'$
$T = 70.02'$ |
|--|---|

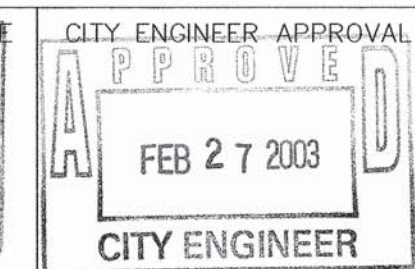
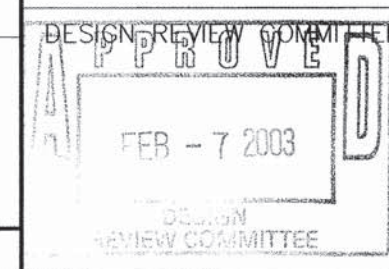
UNIT 4
THIS PROJECT

UNIT 5B
(UNDER CONSTRUCTION)



MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TITLE: VISTA DEL NORTE - UNIT 4
CALLE FUERTE
PAVING IMPROVEMENTS



DESIGNED BY DLH

DRAWN BY ACH

CHECKED BY DMG

DATE 01/02

DATE 01/02

DATE 01/02

ZONE MAP NO.

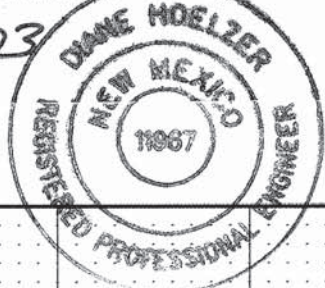
682685

SHEET 8 OF 19

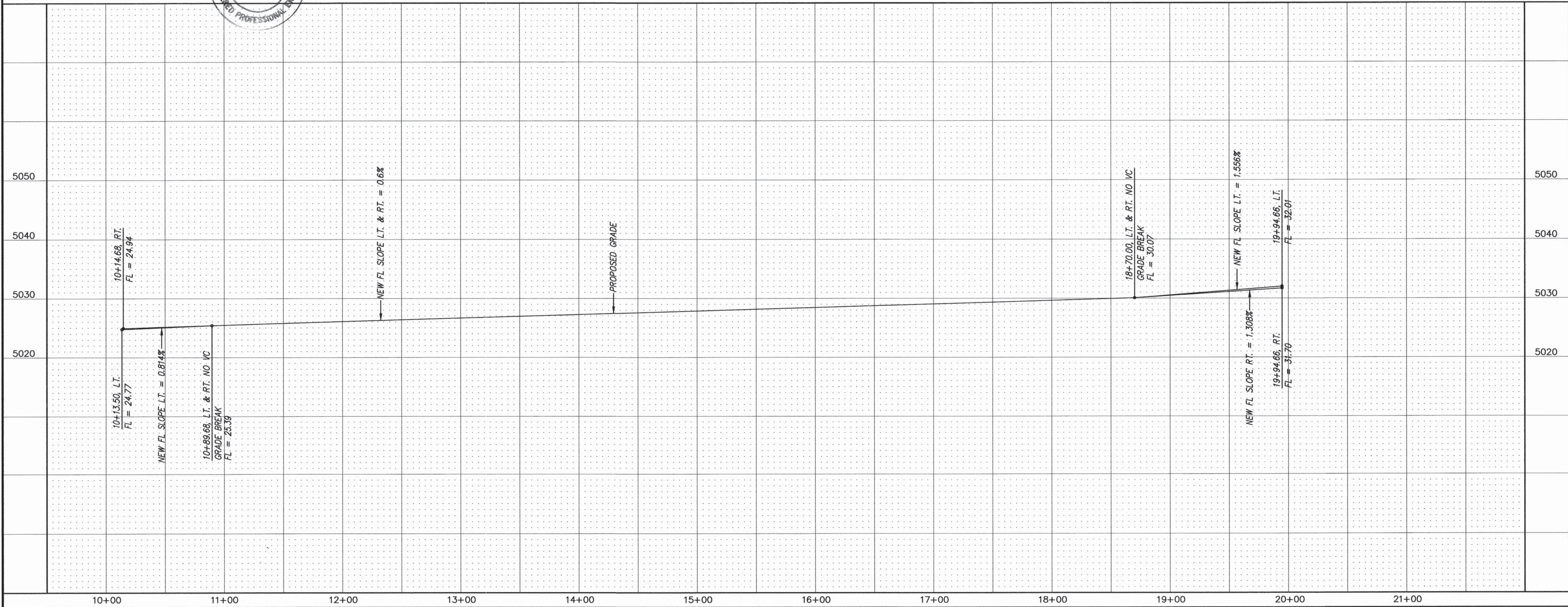
A1005VDN/UNIT 4/A1005PP-6/01-03-03/ACH

SCANNED BY
MESA REPRO

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., 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, and survey information provided by ALS, Inc., NMPE number 7719.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

- | | |
|--|--|
| ① $\Delta = 104'29'09''$
$R = 25.00'$
$L = 45.59'$
$T = 32.28'$ | ② $\Delta = 5'08'51''$
$R = 166.00'$
$L = 14.91'$
$T = 7.46'$ |
| ③ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ | ④ $\Delta = 90'00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ |
| ⑤ $\Delta = 42'16'47''$
$R = 286.00'$
$L = 211.05'$
$T = 110.59'$ | ⑥ $\Delta = 88'18'06''$
$R = 25.00'$
$L = 38.53'$
$T = 24.27'$ |
| ⑦ $\Delta = 88'18'06''$
$R = 25.00'$
$L = 38.53'$
$T = 24.27'$ | ⑧ $\Delta = 42'16'47''$
$R = 314.00'$
$L = 231.71'$
$T = 121.41'$ |
| ⑨ $\Delta = 10'01'32''$
$R = 194.00'$
$L = 33.95'$
$T = 17.02'$ | ⑩ $\Delta = 82'14'29''$
$R = 25.00'$
$L = 35.88'$
$T = 21.83'$ |

CURVE DATA - DESCRIBES CENTERLINE

- | | |
|--|--|
| ① $\Delta = 20'42'02''$
$R = 180.00'$
$L = 65.03'$
$T = 32.88'$ | ② $\Delta = 42'16'47''$
$R = 300.00'$
$L = 221.38'$
$T = 116.00'$ |
|--|--|



CALLE CARISMA
STA. 10+00.00 TO STA. 20+08.58
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

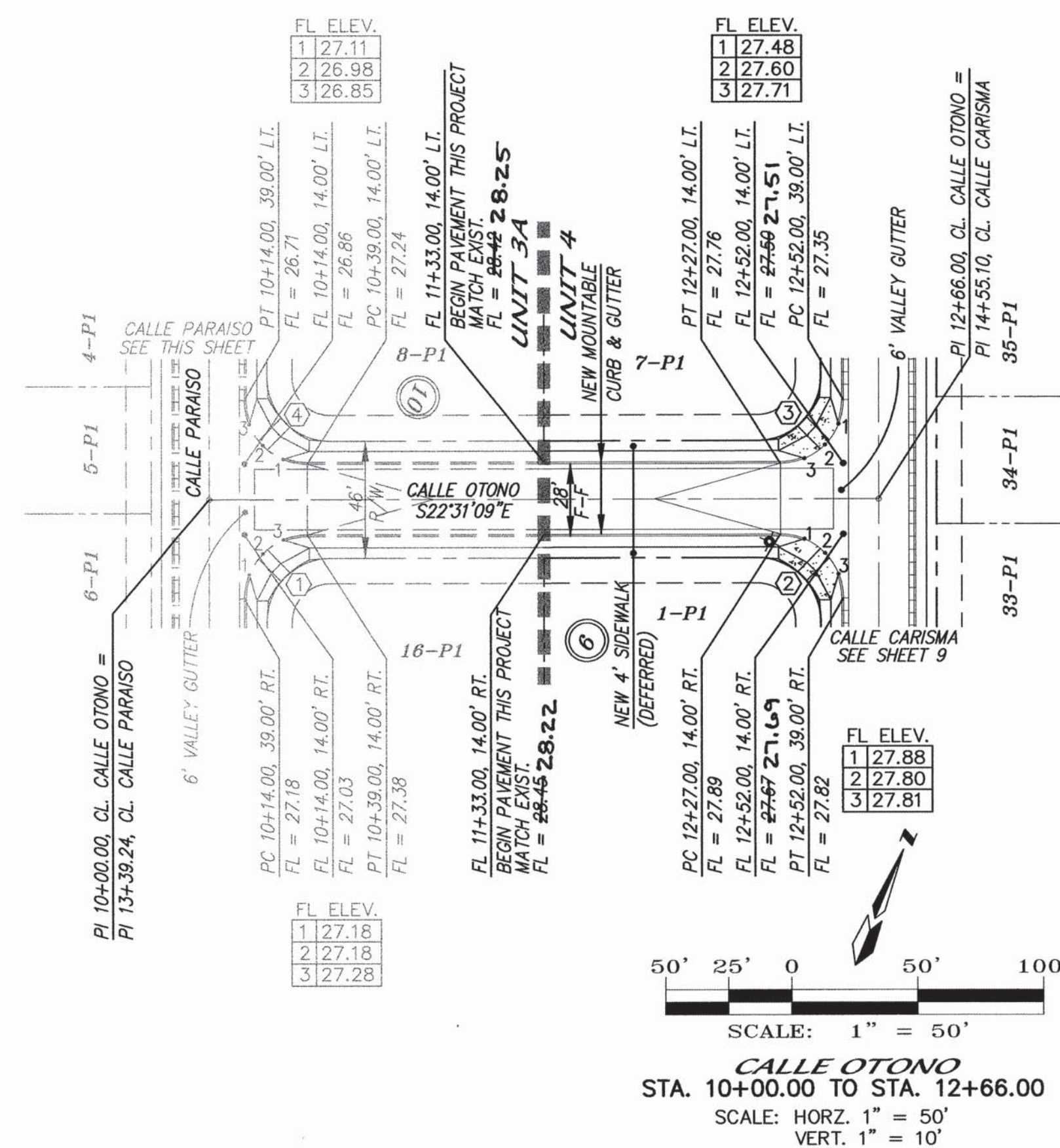
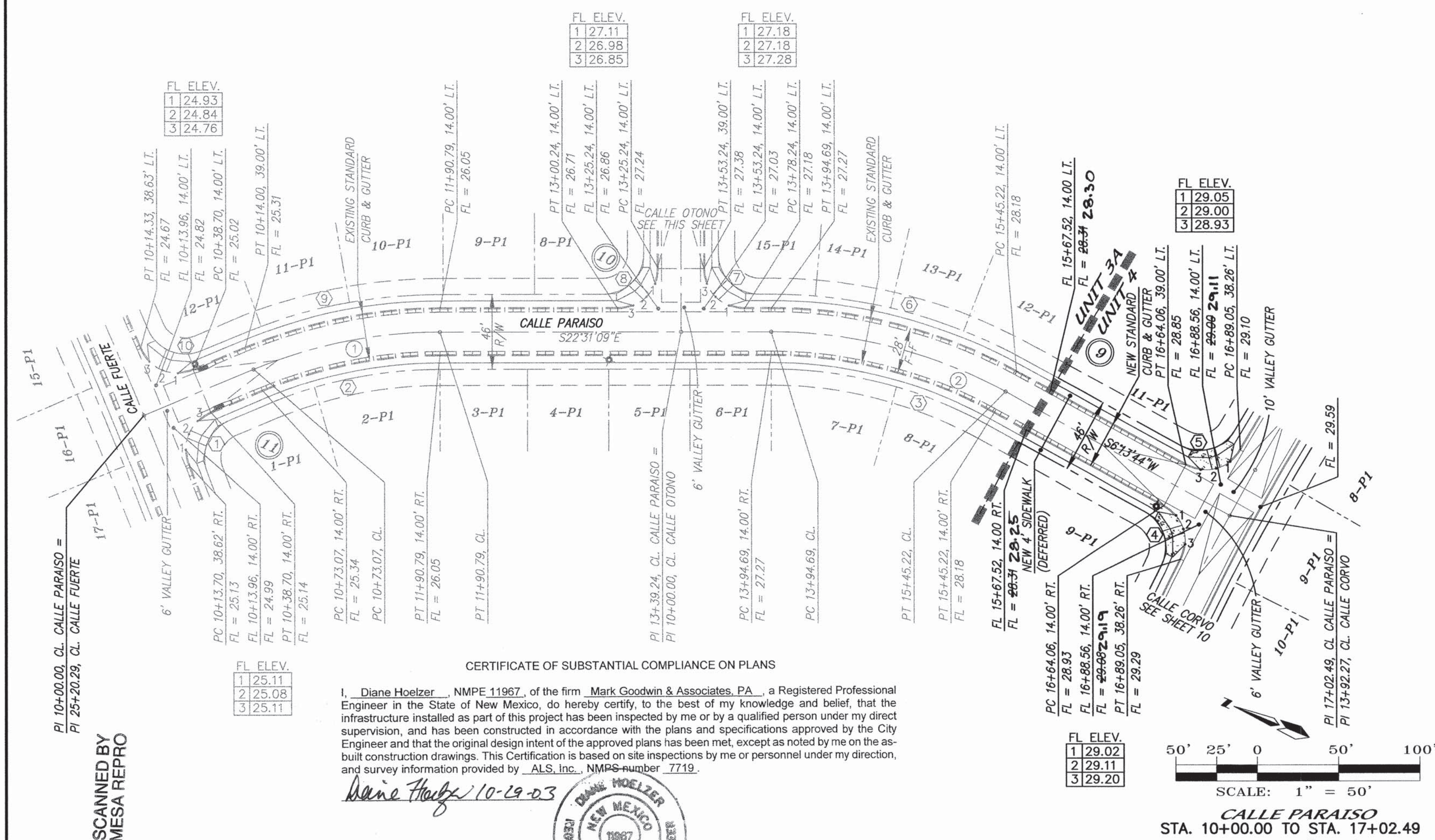
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **VISTA DEL NORTE - UNIT 4
CALLE CARISMA
PAVING IMPROVEMENTS**

DESIGN REVIEW COMMITTEE APPROVED FEB - 7 2003	CITY ENGINEER APPROVAL APPROVED FEB 27 2003 CITY ENGINEER	MO./DAY/YR. 	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

CITY PROJECT NO. **682685** ZONE MAP NO. **D-16** SHEET **9** OF **19**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR Sundance	DATE 03/03	ACS BRASS CAP STAMPED "MAA-9"	DATE 	FIELD NOTES BY 	NO. 		REMARKS REVISIONS DESIGN
INSPECTOR'S ALS	DATE 03/03	LOCATED IN SOUTHEAST QUADRANT OF PASEO DEL NORTE & NORTH DIVERSION CHANNEL INTERSECTION.					
FIELD VERIFICATION BY ALS	DATE 03/03	GEOGRAPHIC POSITION (NAD 1983), IN FEET					
CORRECTION BY ALS	DATE 03/03	N.M. STATE PLANE COORDINATES (CENTRAL ZONE)					
MICRO-FILM INFORMATION		ELEVATION = 5069.27 (NGVD 1929), IN FEET				DESIGNED BY DLH	DATE 02/02
RECORDED BY 						DRAWN BY ACH	DATE 02/02
						CHECKED BY DMG	DATE 02/02



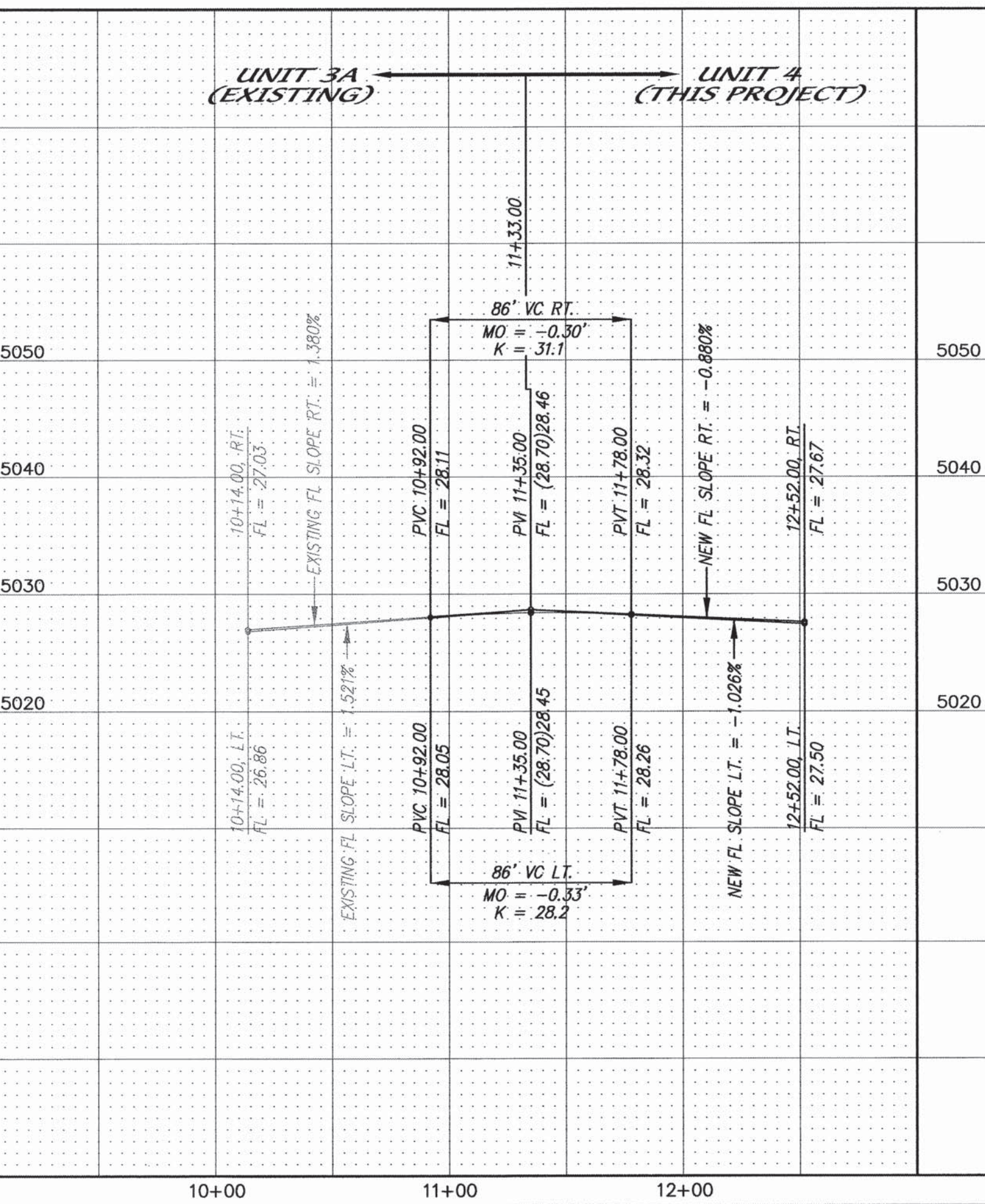
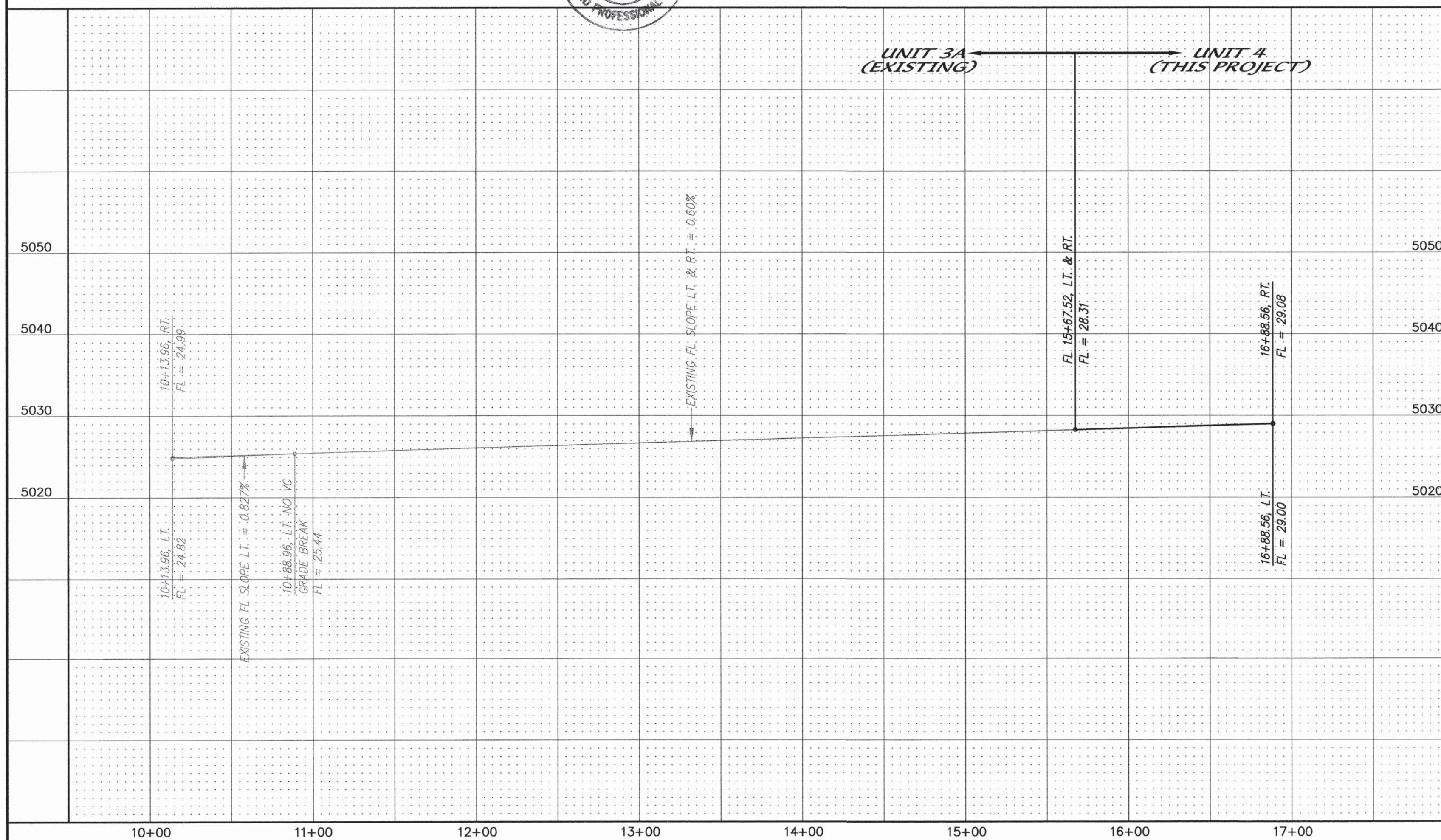
NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. ALL SIDEWALKS ARE DEFERRED.

CALLE PARAISO
CURVE DATA - DESCRIBES FACE OF CURB

CURVE DATA - DESCRIBES CENTERLINE	
① $\Delta = 22^{\circ}28'58''$	② $\Delta = 28^{\circ}44'53''$
$R = 300.00'$	$R = 300.00'$
$L = 117.72'$	$L = 150.52'$
$T = 59.63'$	$T = 150.52'$

CALLE OTONO	
CURVE DATA – DESCRIBES FACE OF CURVE	
① $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	② $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$
③ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	④ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ***VISTA DLE NORTE - UNIT 4
CALLE PARAISO & CALLE OTONO
PAVING IMPROVEMENTS***

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
682685	D-16	11	19

AS BUILT INFORMATION	
CONTRACTOR	Sundance
WORK STARTED BY	AIS
INSPECTOR'S ACCEPTANCE BY	M. Sticker
DATE	2008
DATE	08/20/08
VERIFICATION BY	AIS
DRAWINGS	AIS
CORRECTED BY	MICRO-FILM INFORMATION
RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BRASS CAP STAMPED "MA-9"
LOCATED IN SOUTHEAST QUADRANT OF PASEO DEL NORTE &
NORTH DIVERSION CHANNEL INTERSECTION.
GEOGRAPHIC POSITION (NAD 1927), IN FEET
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X' = 394,154.18 Y' = 1,518,771.30
ELEVATION = 5069.27 (NGVD 1929), IN FEET

[illegible][illegible]

LEGEND

- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- NEW FIRE HYDRANT
- NEW MH
- LOT 20
- GATE VALVE
- TEE
- BEND
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- PROPOSED WATERLINE
- PROPOSED SANITARY SEWER
- CENTERLINE OF ROAD
- EXISTING CURB AND GUTTER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- EXISTING SANITARY SEWER
- EXISTING EDGE OF PAVEMENT
- 4' SIDEWALK
- NEW LOT ADDRESS
- NEW STREET LIGHT

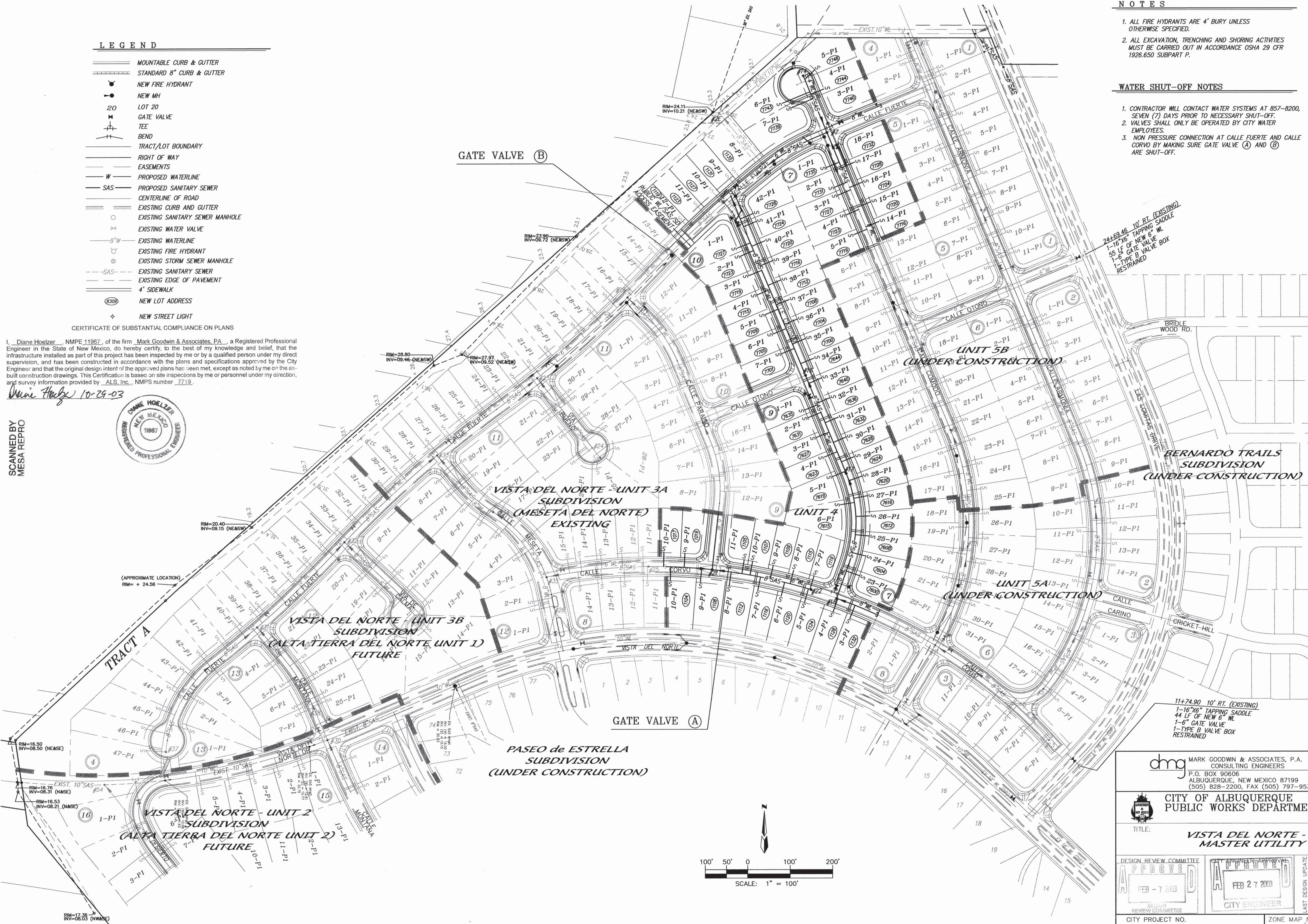
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, P.A., 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, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 10-29-03



SCANNED BY
MESA REPRO



NOTES

- ALL FIRE HYDRANTS ARE 4' BURY UNLESS OTHERWISE SPECIFIED.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE OSHA 29 CFR 1926.650 SUBPART P.

WATER SHUT-OFF NOTES

- CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
- VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
- NON PRESSURE CONNECTION AT CALLE FUERTE AND CALLE CORVO BY MAKING SURE GATE VALVE (A) AND (B) ARE SHUT-OFF.

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
Sundata	03						
WORK BY	DATE	REMARKS	BY	DESIGNED BY	DATE	DRAWN BY	DATE
ACCEPTANCE BY	DATE			DLH	12/01	NHM	12/01
FIELD CHECK BY	DATE			CHECKED BY	DATE		DATE
DRAWINGS	DATE						
CORRECTED BY	DATE						
INFORMATION	DATE						
RECORDED BY	DATE						
NO.							

CONTRACTOR: Sundata
DATE: 03
WORK BY: ALS
DATE: 03
ACCEPTANCE BY: ALS
DATE: 03
FIELD CHECK BY: ALS
DATE: 03
DRAWINGS: ALS
DATE: 03
CORRECTED BY: ALS
DATE: 03
INFORMATION: ALS
DATE: 03
RECORDED BY: ALS
DATE: 03
NO.: 03

ACS BRASS CAP STAMPED "M4-9"
LOCATED IN SOUTHEAST QUADRANT OF PASEO DEL NORTE & NORTH DIVISION CHANNEL INTERSECTION.
GEOGRAPHIC POSITION (NAD 1983), IN FEET
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 394,134.18 Y = 1,518,711.30
ELEVATION = 5069.27 (NGVD 1929), IN FEET

11+74.90, 10' RT. (EXISTING)
1-16"x6" TAPPING SADDLE
44 LF OF NEW 6" WL
1-6" GATE VALVE
1-TYPE B VALVE BOX
RESTRAINED

24+69.46, 10' RT. (EXISTING)
1-16"x6" TAPPING SADDLE
55 LF OF NEW 6" WL
1-6" GATE VALVE
1-TYPE B VALVE BOX
RESTRAINED

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: VISTA DEL NORTE - UNIT 4
MASTER UTILITY PLAN

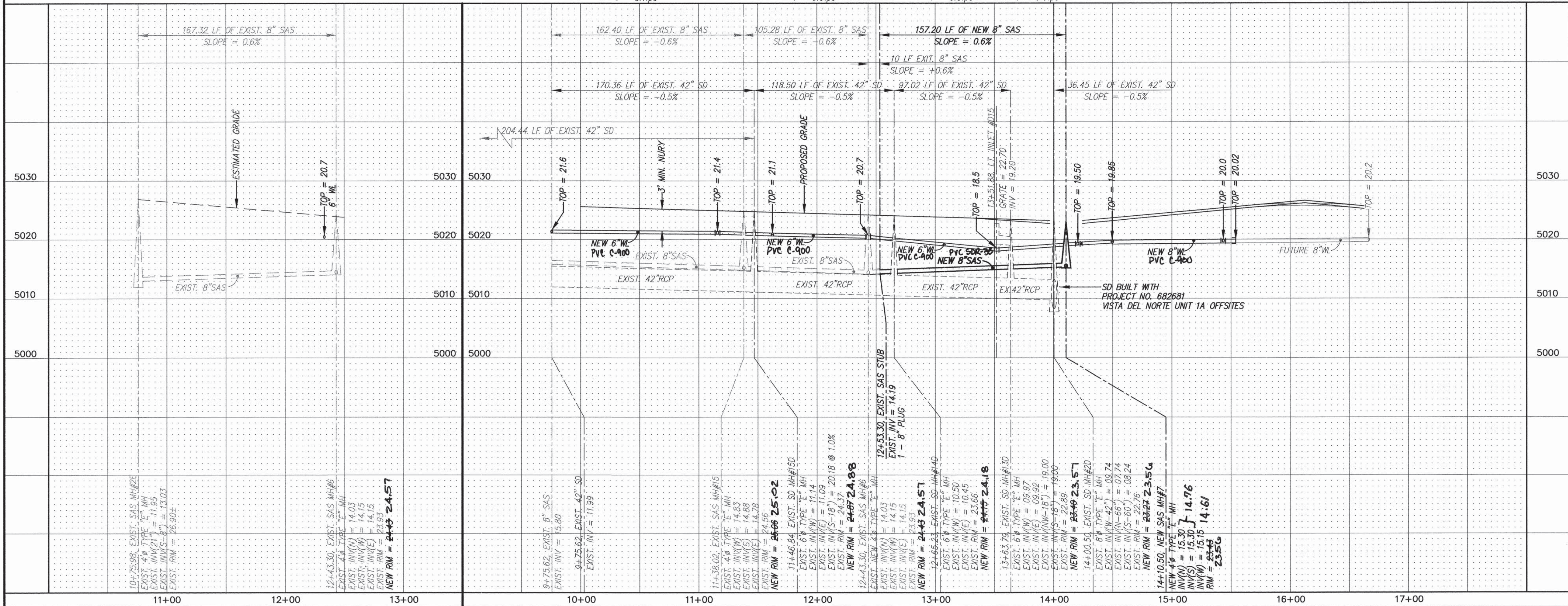
DESIGN REVIEW COMMITTEE
APPROVED
FEB - 7 2003

CITY ENGINEER
APPROVED
FEB 27 2003

LAST DESIGN UPDATE
MO./DAY/YR.

CITY PROJECT NO. 682685
ZONE MAP NO. D-16
SHEET 12 OF 19

SCANNED BY
MESA REPRO



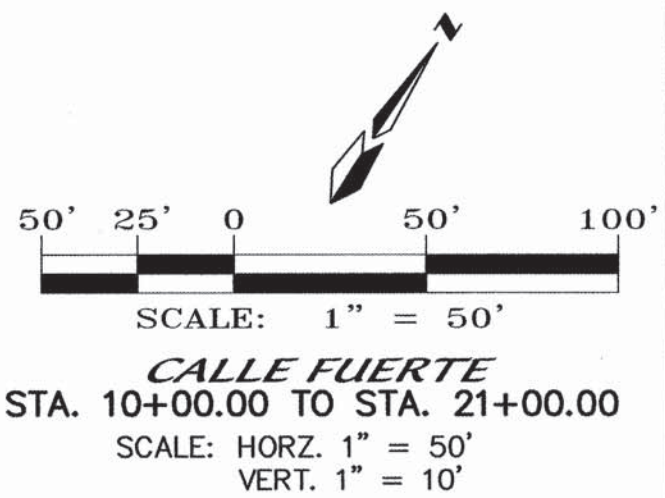
STORM SEWER & SANITARY SEWER IN CALLE FUERTE
BUILT WITH PROJ. NO. 682682
VISTA DEL NORTE UNIT 3A

STORM SEWER IN CALLE COMODO
BUILT WITH PROJ. NO. 682681
VISTA DEL NORTE UNIT 1A OFFSITES

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoelzer, NMPE 11967, of the firm, Mark Goodwin & Associates, P.A., 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, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoelzer 10-29-03



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 17.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
4	8	12+22.45	19.31'	33.00'
4	9	11+47.65	19.75'	33.00'
4	10	11+13.21	19.95'	33.00'
4	11	10+64.06	20.24'	33.00'
4	12	10+14.90	20.52'	33.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
10"	-	11'	5'	3'	72'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)

PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44'	-

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
6"x6"x6"	10'	2'

SUMMARY TABLE

STORM SEWER HYDRAULICS

LOCATION	HGL	GRATE/RIM
MH 20	16.24	22.76
MH 130	16.89	22.89
MH 140	17.99	23.66
MH 150	19.27	24.37



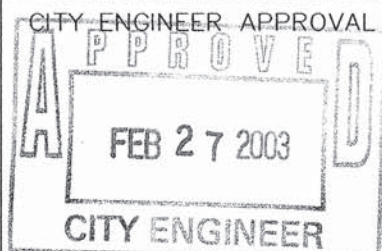
MARK GOODWIN & ASSOCIATES, P.A.
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ALBUQUERQUE, NEW MEXICO 87199
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

VISTA DEL NORTE - UNIT 4
CALLE FUERTE
UTILITY IMPROVEMENTS



CITY PROJECT NO.

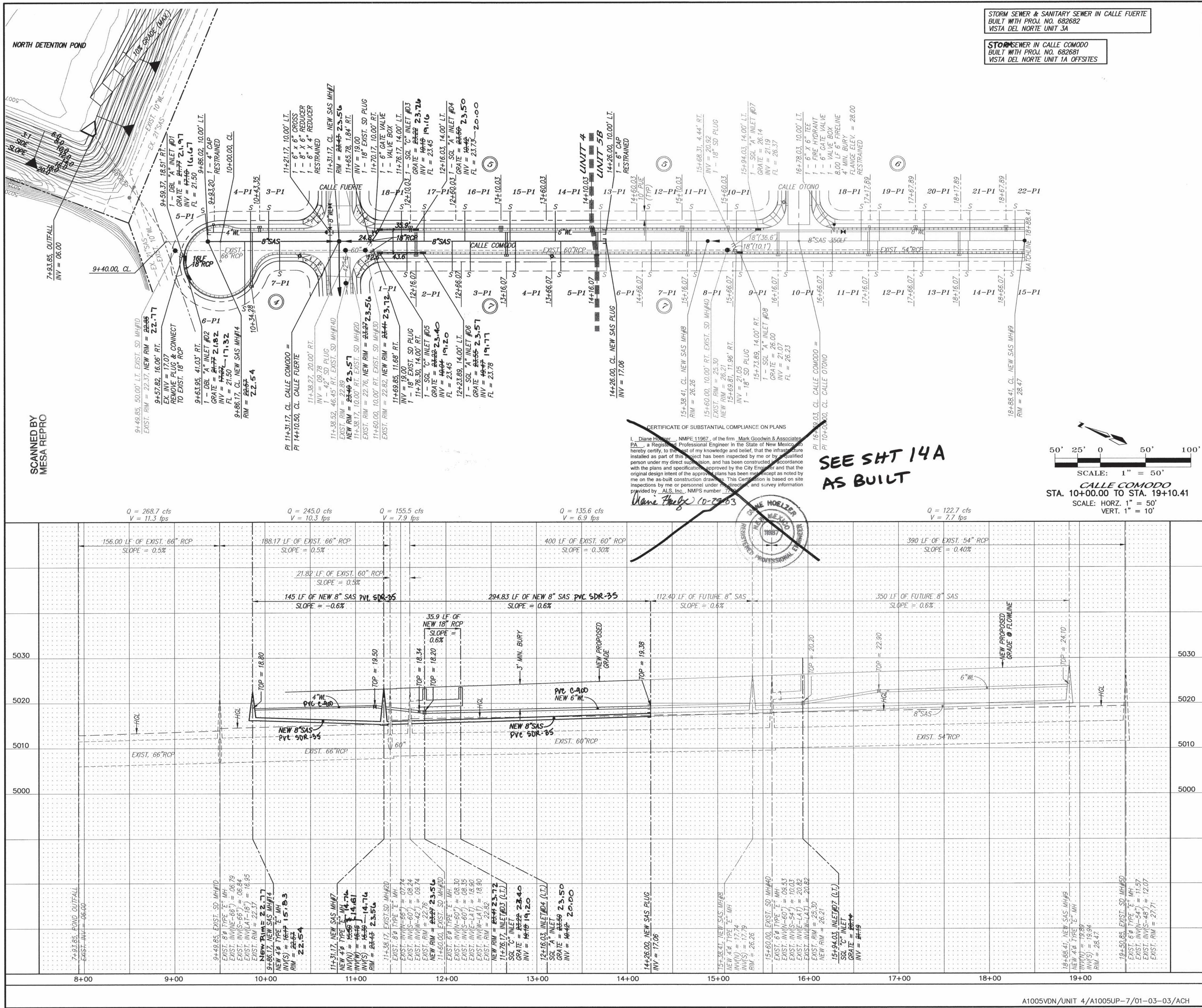
ZONE MAP NO.

SHEET OF

682685

D-16

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STORM SEWER & SANITARY SEWER IN CALLE FUERTE
BUILT WITH PROJ. NO. 682682
VISTA DEL NORTE UNIT 3A

STORM SEWER IN CALLE COMODO
BUILT WITH PROJ. NO. 682681
VISTA DEL NORTE UNIT 1A OFFSITES

STORM SEWER IN CALLE COMODO
BUILT WITH PROJ. NO. 682681
VISTA DEL NORTE UNIT 1A OFFSITES

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 17.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. PUE	LENGTH AT PUE
4	3	10+53.35	17.68'	33.00'
4	4	10+33.35	17.56'	33.00'
4	5 *	9+83.35	17.25'	30.55'
4	6	10+26.77	17.52'	70.05'
4	7	10+65.38	17.75'	32.00'
5	14	13+70.03	19.63'	33.00'
5	15	13+20.03	19.49'	33.00'
5	16	12+70.03	18.15'	33.00'
5	17	12+25.03	18.84'	33.00'
5	18	12+00.03	18.67'	33.00'
7	1	12+06.07	18.72'	33.00'
7	2	12+56.07	19.06'	33.00'
7	3	12+76.07	19.19'	33.00'
7	4	13+26.07	19.53'	33.00'
7	5	13+76.07	19.87'	33.00'

* SANITARY SEWER SERVICE LINE INTO MANHOLE
PER STD. DWG 2118.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	—	—	46'
10"	—	11'	5'	3'	72'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)		
PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44'	—

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
6"x6"x6"	10'	2'

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

VISTA DEL NORTE - UNIT 4
CALLE COMODO
UTILITY IMPROVEMENTS

DESIGN REVIEW COMMITTEE

APPROVED

FEB - 7 2003

DESIGN
REVIEW COMMITTEE

CITY ENGINEER APPROVA
APPROVE
FEB 27 2003
CITY ENGINEER

LAST DESIGN UPDATE

MC

0./DAY

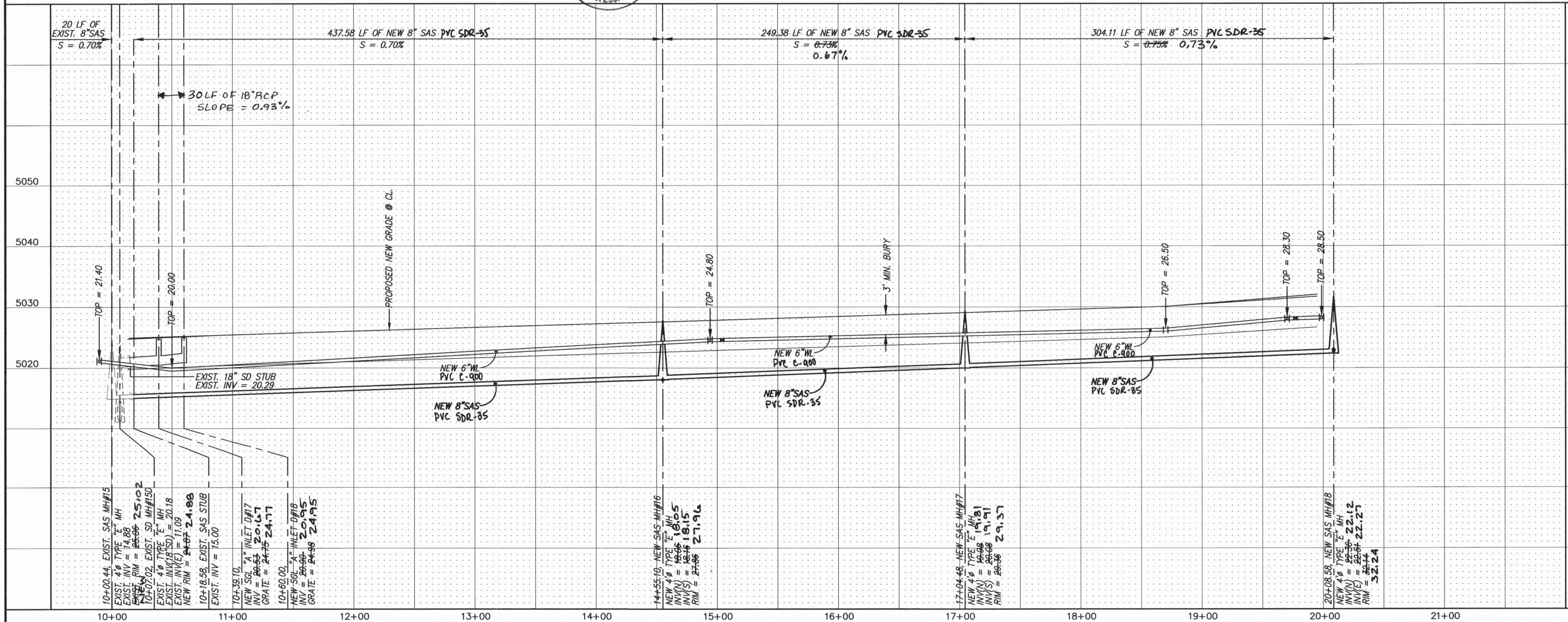
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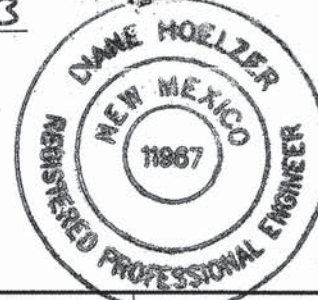
SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Diane Hoeltzer, NMPE 11967, of the firm Mark Goodwin & Associates, PA, 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, and survey information provided by ALS, Inc., NMPS number 7719.

Diane Hoeltzer 10-29-03

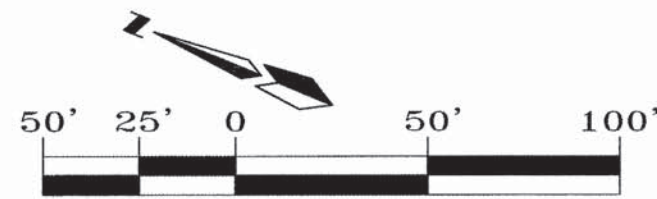


NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 17.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
7	23	19+40.60	25.99'	33.00'
7	24	18+95.42	25.40'	33.00'
7	25	18+52.24	24.96'	33.00'
7	26	18+09.07	24.70'	33.00'
7	27	17+65.89	24.45'	33.00'
7	28	17+22.72	24.19'	33.00'
7	29	16+75.03	23.90'	33.00'
7	30	16+25.03	23.60'	33.00'
7	31	15+75.03	23.30'	33.00'
7	32	15+25.03	23.00'	33.00'
7	33	14+75.03	22.70'	33.00'
7	34	14+25.03	22.40'	33.00'
7	35	13+75.03	22.10'	33.00'
7	36	13+25.03	21.80'	33.00'
7	37	12+75.03	21.50'	33.00'
7	38	12+25.03	21.20'	33.00'
7	39	11+75.03	20.90'	33.00'
7	40	11+25.03	20.60'	33.00'
7	41	10+75.03	20.30'	33.00'
7	42	10+25.03	20.00'	33.00'
9	1	15+28.96	23.02'	33.00'
9	2	15+48.96	23.14'	33.00'
9	3	15+98.96	23.44'	33.00'
9	4	16+48.96	23.74'	33.00'
9	5	16+98.96	24.04'	33.00'
9	6	17+48.96	24.34'	33.00'
10	1	11+16.24	20.55'	33.00'
10	2	11+36.24	20.67'	33.00'
10	3	11+56.24	20.79'	33.00'
10	4	12+06.24	21.27'	33.00'
10	5	12+56.24	21.57'	33.00'
10	6	13+06.24	21.87'	33.00'
10	7	13+56.24	22.17'	33.00'



CALLE CARISMA
STA. 10+00.00 TO STA. 20+08.58
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
10"	-	11'	5'	3'	72'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND, RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)

PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44'	-

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
6"x6"x6"	10'	2'

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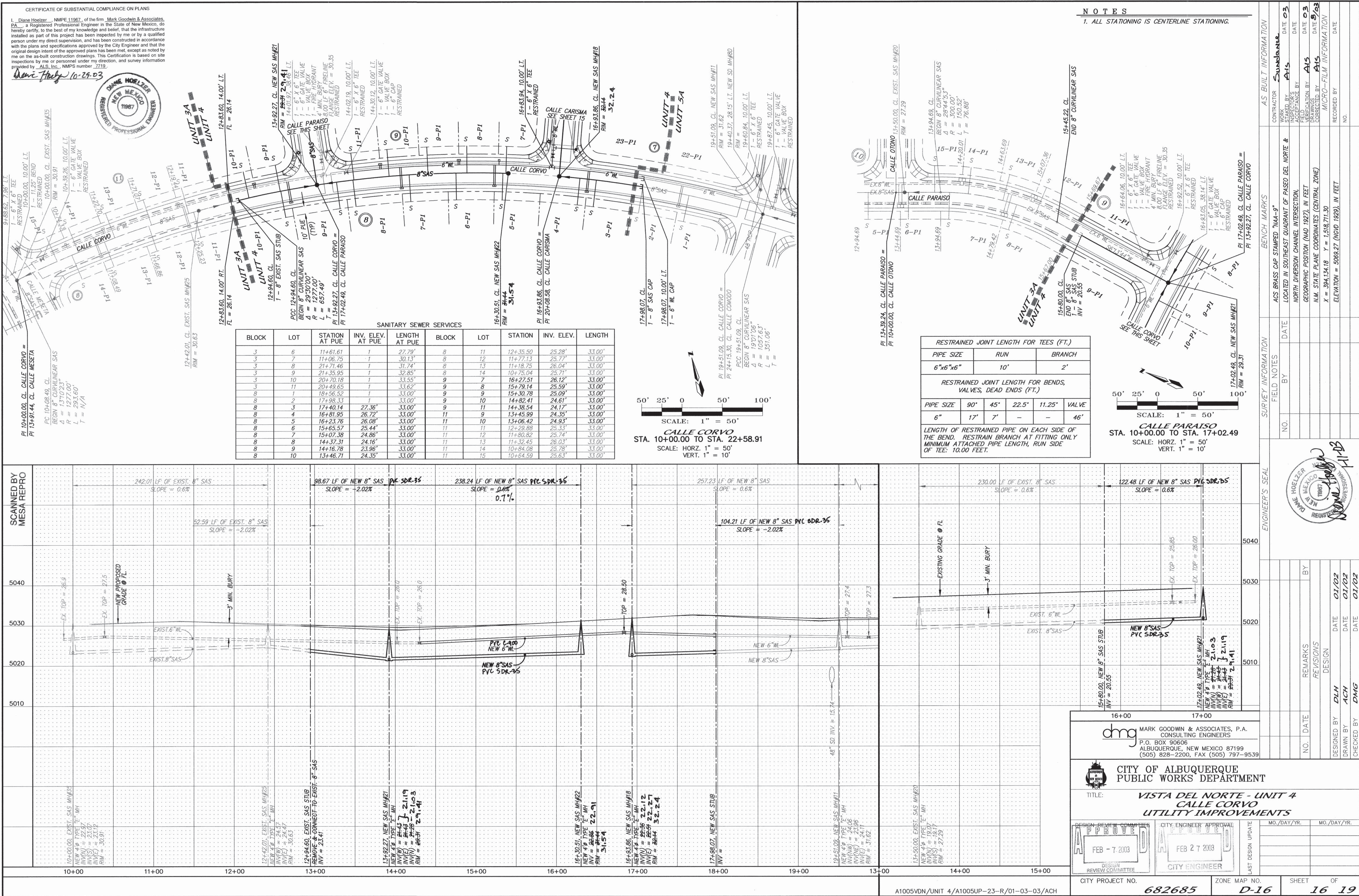


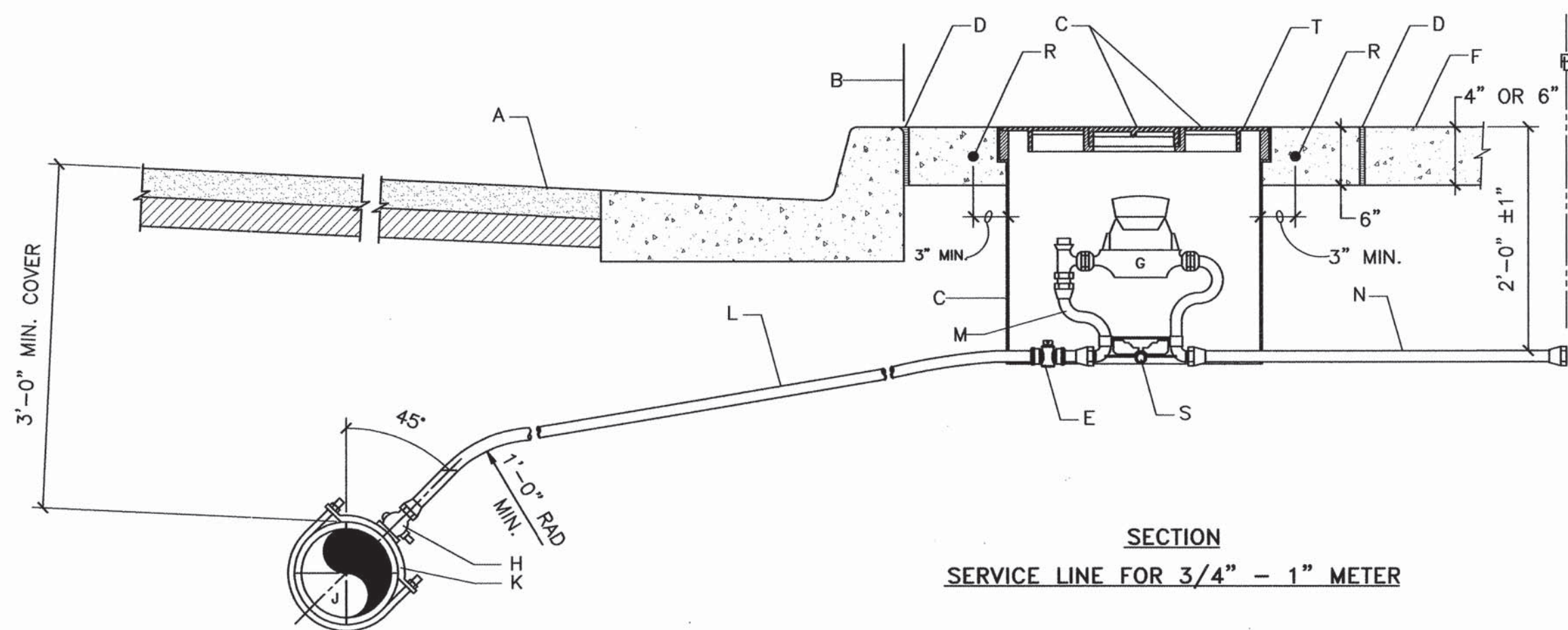
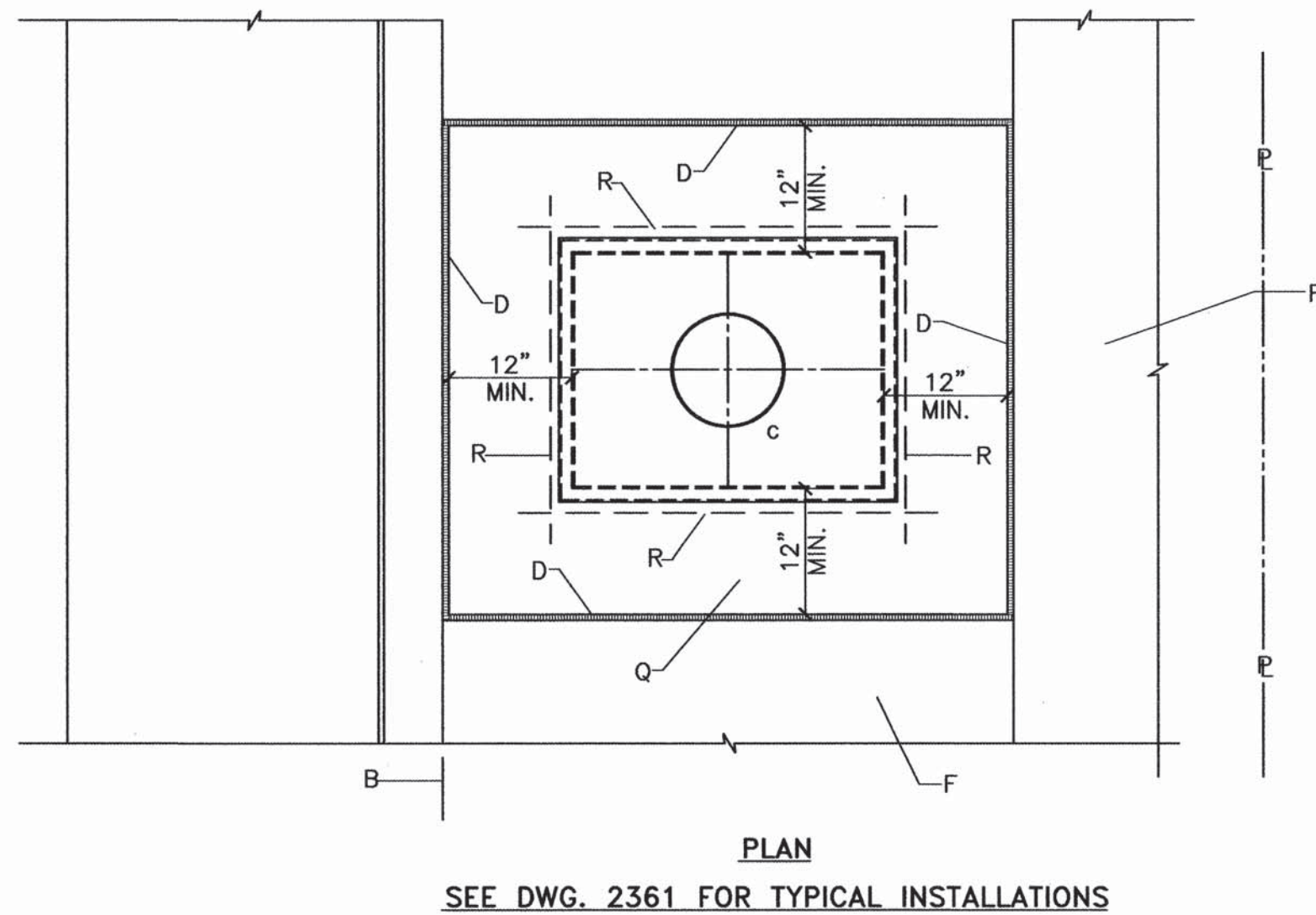
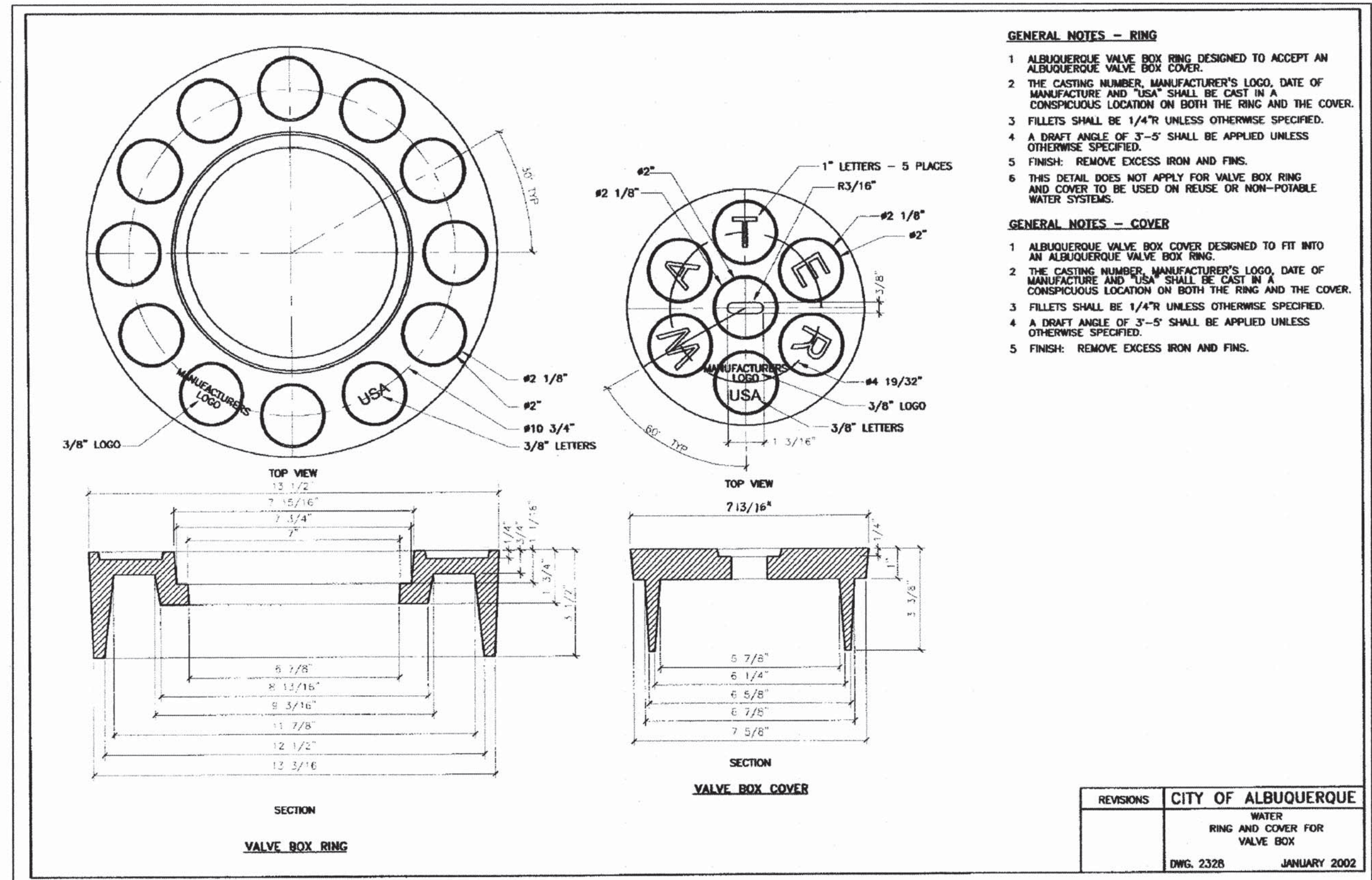
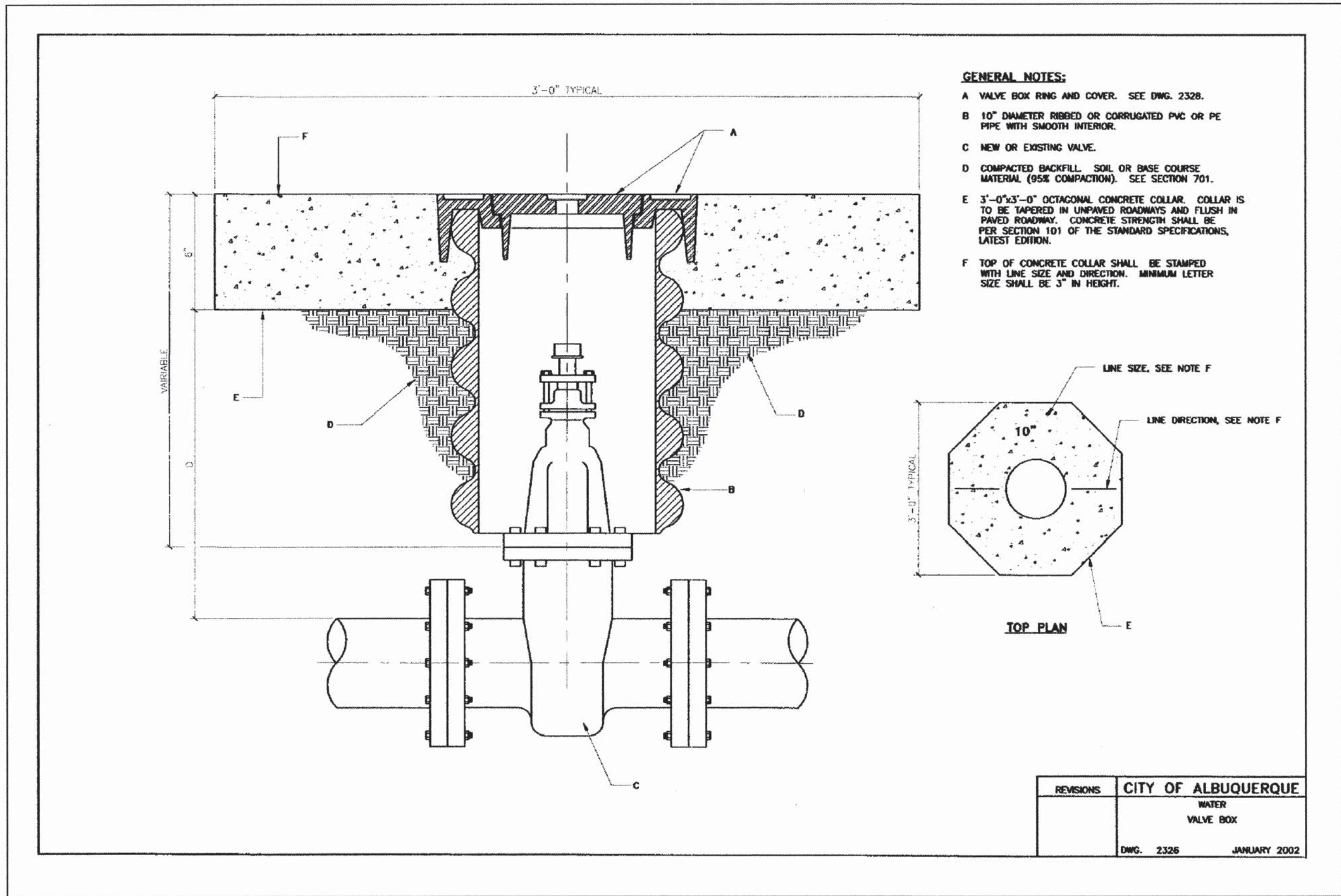
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TITLE: **VISTA DEL NORTE - UNIT 4
CALLE CARISMA
UTILITY IMPROVEMENTS**



LAST DESIGN UPDATE

MO./DAY/YR.	MO./DAY/YR.





GENERAL NOTES:

- 1 THE METER SHALL BE SET UTILIZING A COPPER-SETTER. COPPER-SETTER HEIGHT 10" FOR 1" METER. 7" FOR 3/4" METER.
- 2 THE VALVE AND METER REGISTER BOX SHALL BE LOCATED UNDER THE LID OPENING. WHERE TWO METERS ARE TO BE INSTALLED IN A SINGLE METER BOX, THE METER REGISTERS SHALL BE WITHIN READING RANGE OF THE LID OPENING.
- 3 METER BOX LOCATION TO CONFORM TO DWG. 2361.
- 4 WHEN CONTRACTOR DOES NOT INSTALL METER, CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER.
- 5 EXISTING CONCRETE TO BE SAWCUT.

CONSTRUCTION NOTES:

- A STREET SURFACE.
- B BACK OF CURB.
- C CAST IRON METER BOX, COVER AND LID. SEE DWG. 2368 OR 2369.
- D 1/2" EXPANSION JOINT.
- E CURB STOP, LOCATE INSIDE METER BOX.
- F SIDEWALK OR DRIVEPAD.
- G METER. TOP OF METER TO BE 12"-18" BELOW COVER.
- H CORP STOP.
- J MAIN WATER LINE.
- K TAPPING SADDLE.
- L COPPER SERVICE LINE.
- M COPPER SETTER.
- N TAILPIECE TO PROPERTY LINE WITH INSTA-TITE I.P.T. CAPPED FITTING.
- Q CONCRETE PAD REQUIRED IN ALL AREAS.
- R #4 REBAR CONTINUOUS ALL AROUND METER BOX.
- S STABILIZER BAR. 12" LONG X 1/2" DIAMETER GALVANIZED STEEL PIPE.
- T METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **VISTA DEL NORTE - UNIT 4
WATER DETAILS**

DESIGN REVIEW COMMITTEE
C.O.A. STANDARD
CITY ENGINEER APPROVAL
C.O.A. STANDARD
LAST DESIGN UPDATE

CITY PROJECT NO. **682685**
ZONE MAP NO. **D-16**
SHEET **17** OF **19**

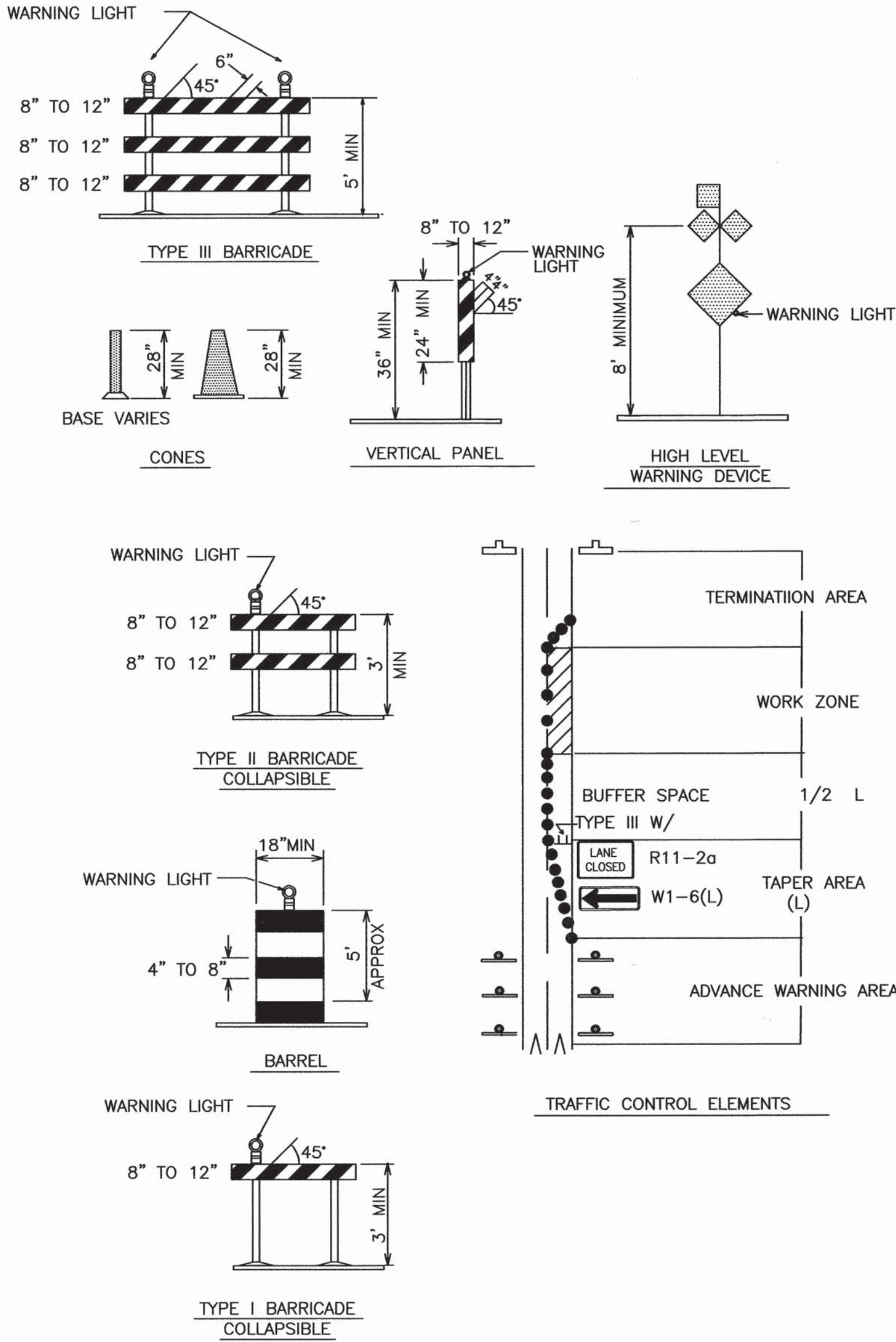
AS BUILT INFORMATION				BENCH MARKS				SURVEY INFORMATION				ENGINEER'S SEAL			
CONTRACTOR	DATE	BY	NO.	ACS BRASS CAP STAMPED "MA-9"	DATE	BY	NO.	FIELD NOTES	DATE	BY	NO.	DRAFT C.O.A. STANDARD			
WORK	DATE	BY	NO.	LOCATED IN SOUTHEAST QUADRANT OF PASO DEL NORTE & NORTH DIVERSION CHANNEL INTERSECTION.	DATE	BY	NO.	NO.	DATE	BY	NO.				
ACCEPTANCE	DATE	BY	NO.	GEOREFERENCE POSITION (NAD 1983), IN FEET	DATE	BY	NO.	REMARKS	DATE	BY	NO.				
FIELD	DATE	BY	NO.	N.M. STATE PLANE COORDINATES (CENTRAL ZONE)	DATE	BY	NO.	REVISIONS	DATE	BY	NO.				
DRAWING	DATE	BY	NO.	X = 394,134.18 Y = 1,518,711.30	DATE	BY	NO.	DESIGN	DATE	BY	NO.	DRAFT C.O.A. STANDARD			
CORRECTED BY	DATE	BY	NO.	ELEVATION = 5069.27 (NGVD 1929), IN FEET	DATE	BY	NO.	NO.	DATE	BY	NO.				
MICRO-FILM INFORMATION	DATE	BY	NO.		DATE	BY	NO.	NO.	DATE	BY	NO.				
RECORDED BY	DATE	BY	NO.		DATE	BY	NO.	NO.	DATE	BY	NO.				

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 SEPARATE 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:
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
 - 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 EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



LEGEND

WORK AREA

BARRICADE - TYPE I, TYPE II, OR BARREL

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE STREET LIMIT OF THE STREET

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)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		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 LIMIT (MPH)	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 CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *VISTA DEL NORTE - UNIT 4*

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD	LAST DESIGN UPDATE	
CITY PROJECT NO.	ZONE MAP NO.	SHEET OF	
682685	D-16	18 19	

SCANNED BY
MESA REPRO

F:\A01\JOBS\14005\01\Unit4\citysign.dwg Mon Jan 06 16:13:33 2003 D: MARK GOODWIN & ASSOCIATES; PLTIED BY: ACH

E:\HW-MAN\PROJECTS\97177\TRANS\DESIGN\SIGN\CONSIG.DWG

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.

TITLE: <i>VISTA DEL NORTE - UNIT 4</i>				
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD			
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
<i>682685</i>	<i>D-16</i>	<i>19</i>	<i>19</i>	

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