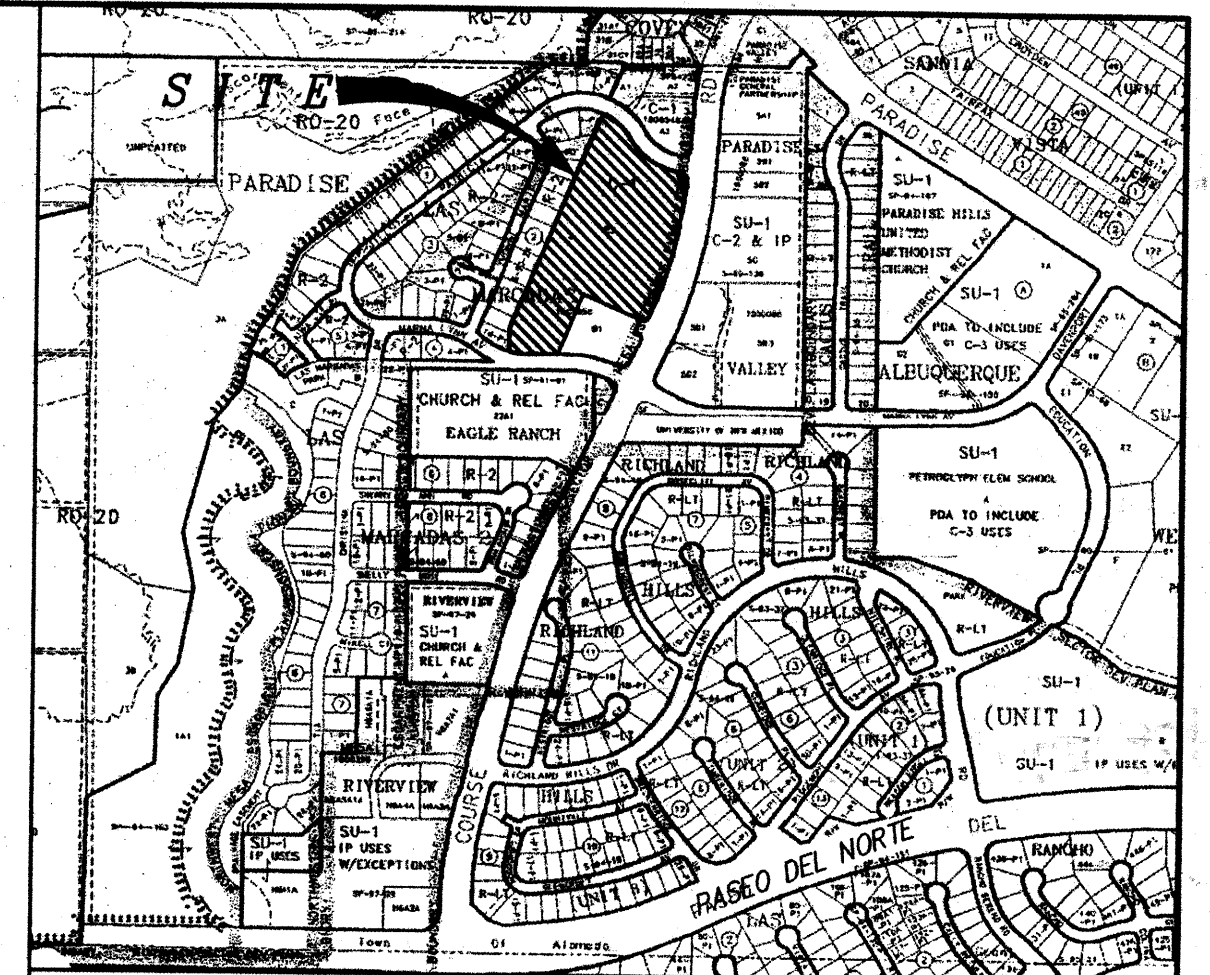


CONSTRUCTION PLANS
FOR
TRAILS AT LAS MARCADAS SUBDIVISION
ALBUQUERQUE, NEW MEXICO



VICINITY MAP ZONE ATLAS: C-12-Z
SCALE: NONE

GENERAL NOTES

NOTICE TO CONTRACTORS

- AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- 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 #7.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- SEVEN (7) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. SEVEN (7) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADE 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.
- ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- 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.
- 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 NMU FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
- ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS). THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES (888-2661) THREE (3) WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF THE UTILITIES.
- 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.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 24 CFR 1926.650 SUBPART P.

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.
- ☒ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

INDEX TO DRAWINGS

SHEET NO.	SHEET
1	TITLE SHEET
2-3	PLAT
4	GRADING & DRAINAGE PLAN
5	MASTER PAVING PLAN
6-7	PAVING IMPROVEMENTS
8	MASTER UTILITY PLAN
9-10	UTILITY IMPROVEMENTS

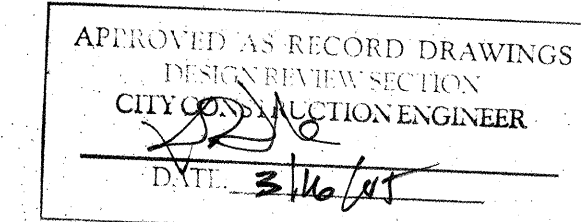
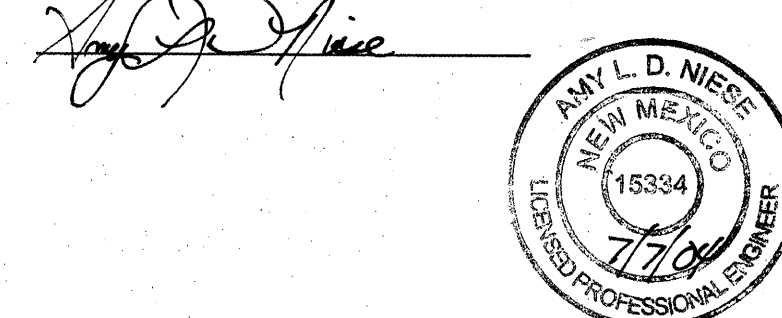
SURVEYOR'S CERTIFICATION

"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, R.S. No. 7719
Date 07-07-04

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L.D. Niese, NMPE 15334, 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.



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

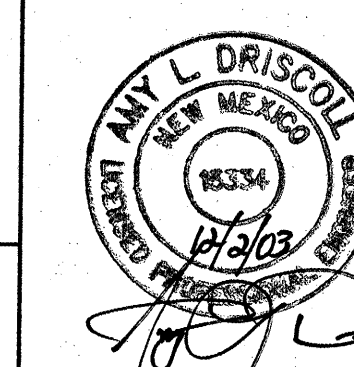
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 7 2 5 6 8 1 0 5

N.M.U.I.

DATE 12-15-03

DRB NO.

1002050



REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE
3, 9, 10, 12	8, 9, 10	3-24-04	3/19/04	3/05/2004	
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****
DRC CHAIRMAN				12-30-03	APPROVED FOR CONSTRUCTION
TRANSPORTATION				12/20/03	
WATER/WASTEWATER				12/16/03	
HYDROLOGY				12/16/03	
CIP					
CONSTR. MGMT.					
CONSTR. COORD.				12-30-03	
CITY PROJECT NO.		725681		SHEET OF 1 10	

ALL STREETS SHOWN
HEREON ARE HEREBY
DEDICATED AS PUBLIC
RIGHT-OF-WAY

NOTE: ▲

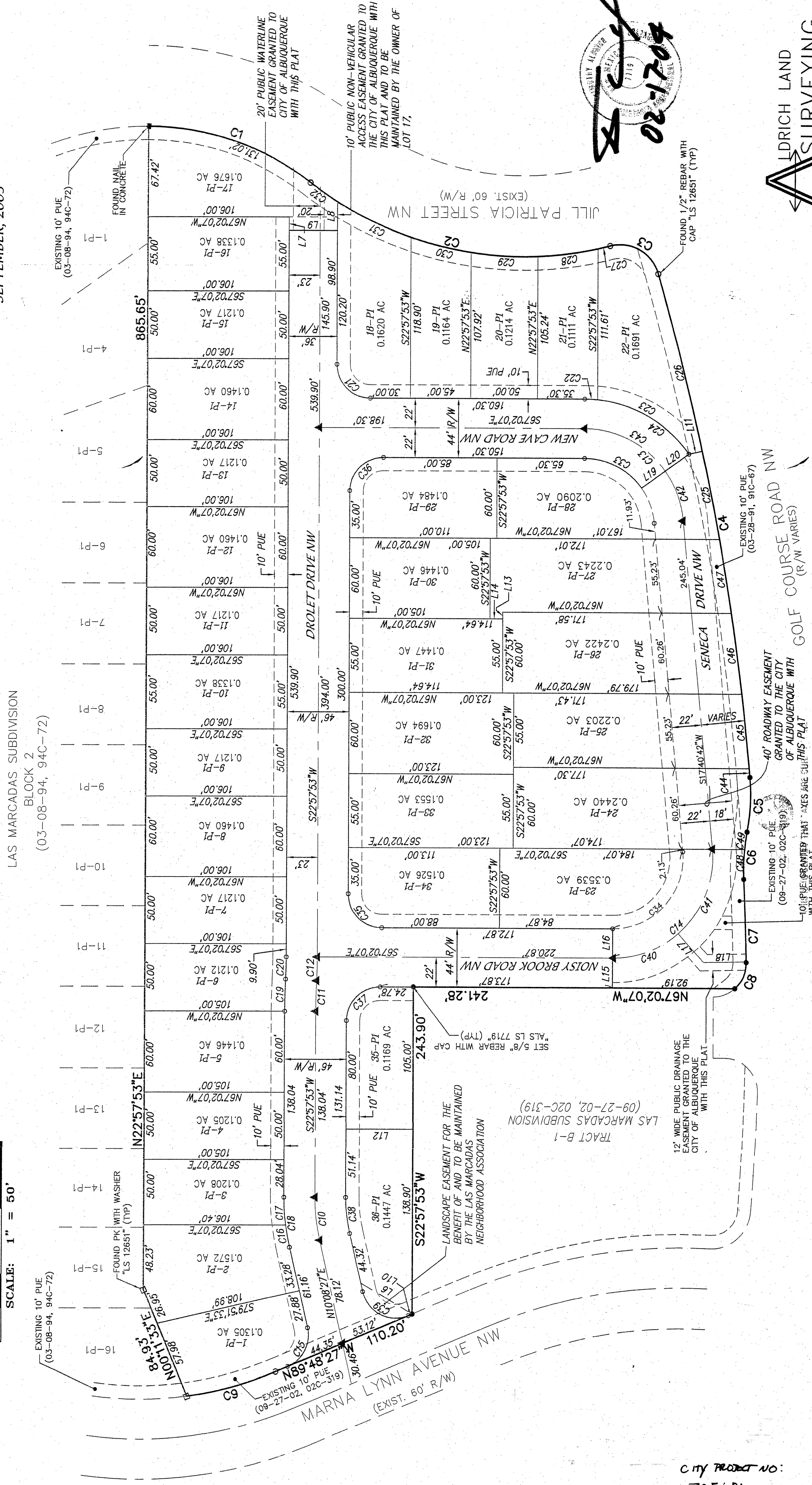
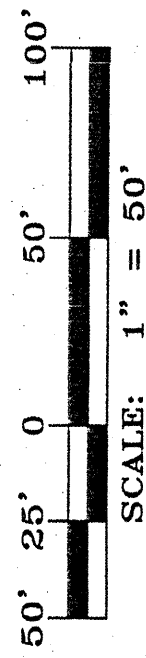
CENTERLINE (IN LIEU OF R/W) MONUMENTATION IS TO BE INSTALLED
AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS AND STREET
INTERSECTIONS AS SHOWN HEREON, AND WILL CONSIST OF A FOUR
"X" (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE",
"CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

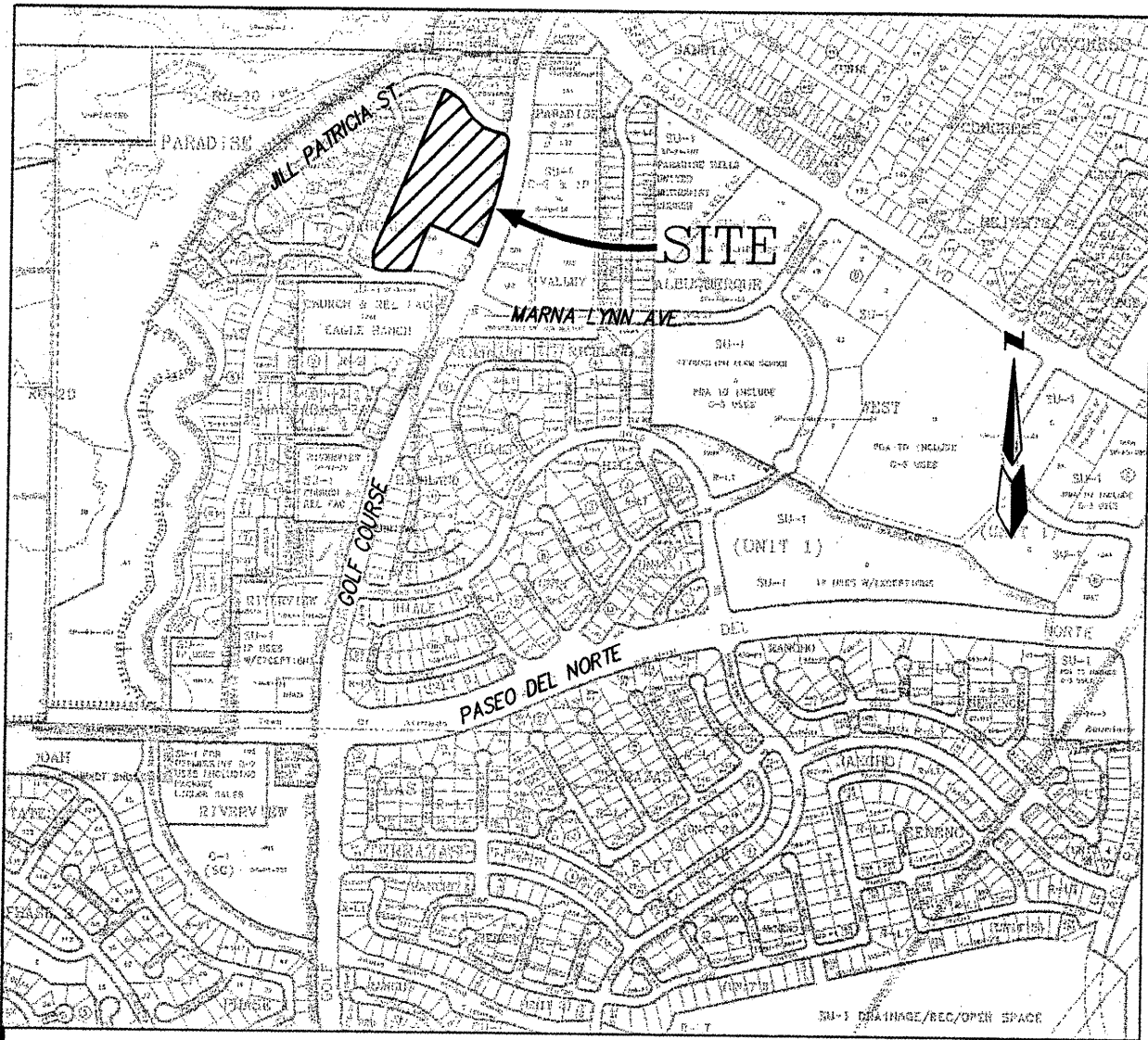
ABBREVIATIONS

10' PUE = PUBLIC UTILITY EASEMENTS
GRANTED WITH THIS PLAT
R/W = RIGHT-OF-WAY

PLAT FOR
**TRAILS AT LAS MARCADAS
SUBDIVISION**

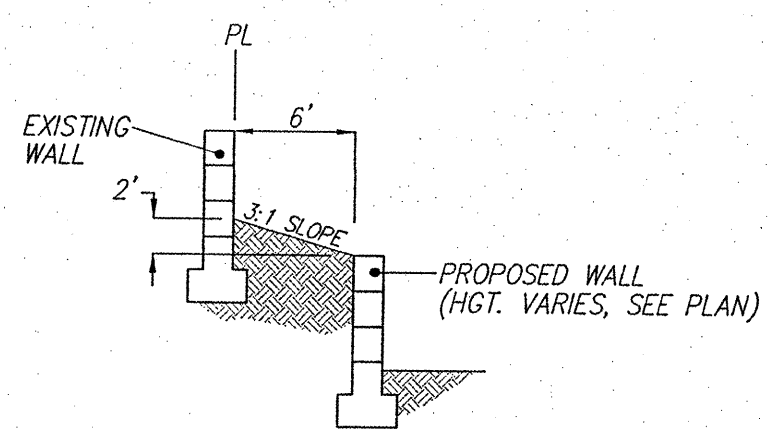
WITHIN IN
TOWN OF ALAMEDA GRANT
PROJECTED SECTION 13
TOWNSHIP 11 NORTH, RANGE 2 EAST, N11PM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
SEPTEMBER, 2003





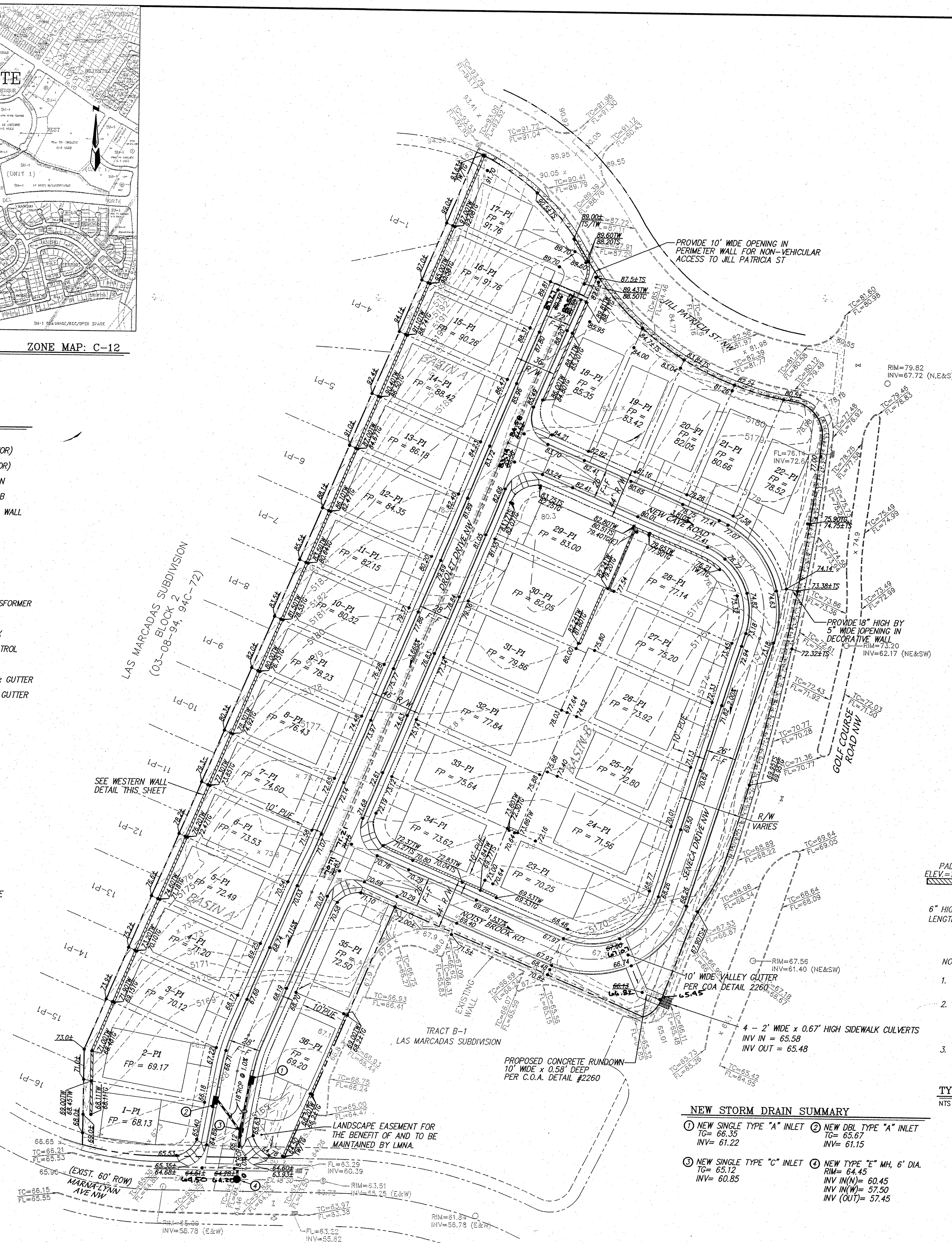
VICINITY MAP

- LEGEND**
- 5615 EXISTING CONTOUR (MAJOR)
 - 5616 EXISTING CONTOUR (MINOR)
 - TC x 00.0 EXISTING SPOT ELEVATION
 - EXISTING CONCRETE CURB
 - EXISTING WALL OR HEAD WALL
 - EXISTING SIGN
 - EXISTING WOOD FENCE
 - EXISTING SAS MANHOLE
 - EXISTING FIRE HYDRANT
 - EXISTING WATER VALVE
 - EXISTING ELECTRIC TRANSFORMER
 - EXISTING STREET LIGHT
 - EXISTING TELEPHONE BOX
 - EXISTING SPRINKLER CONTROL
 - EXISTING CATV PEDESTAL
 - NEW MOUNTABLE CURB & GUTTER
 - NEW STANDARD CURB & GUTTER
 - NEW SIDEWALK
 - NEW RIGHT-OF-WAY
 - NEW CENTERLINE
 - NEW LOT LINES
 - NEW EASEMENTS
 - NEW RETAINING WALL
 - NEW SPOT ELEVATIONS
 - NEW FLOW
 - NEW SLOPE, 3:1 MAX.
 - NEW HIGH POINT
 - NEW BASIN BOUNDARY
 - NEW STORM
 - NEW DRAINAGE BASIN LINE



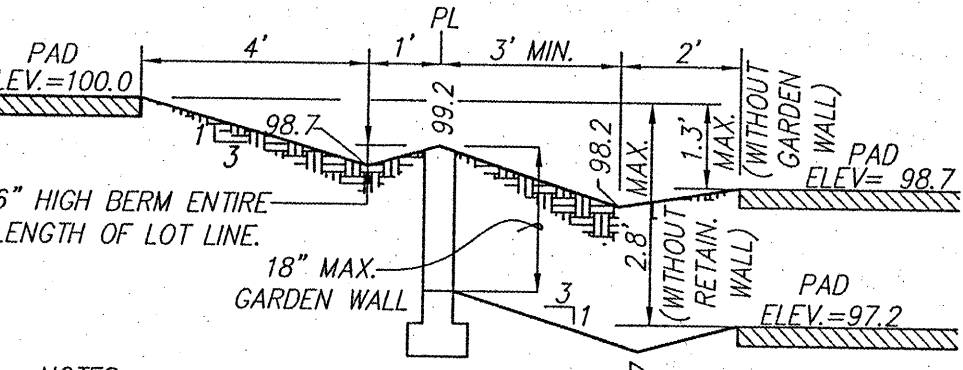
WESTERN WALL DETAIL

N.T.S.



NEW STORM DRAIN SUMMARY

- ① NEW SINGLE TYPE "A" INLET
TG= 66.35
INV= 61.22
- ② NEW DEL TYPE "A" INLET
TG= 65.67
INV= 61.15
- ③ NEW SINGLE TYPE "C" INLET
TG= 65.12
INV= 60.85
- ④ NEW TYPE "E" MH, 6' DIA.
INV IN(N)= 60.45
INV IN(W)= 57.50
INV (OUT)= 57.45



- NOTES:**
- A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER BOUNDARY. (PART BY DEVELOPER, PART BY BUILDER.)
 - WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1.3' AND LESS THAN 2.8' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
 - WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.8' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.

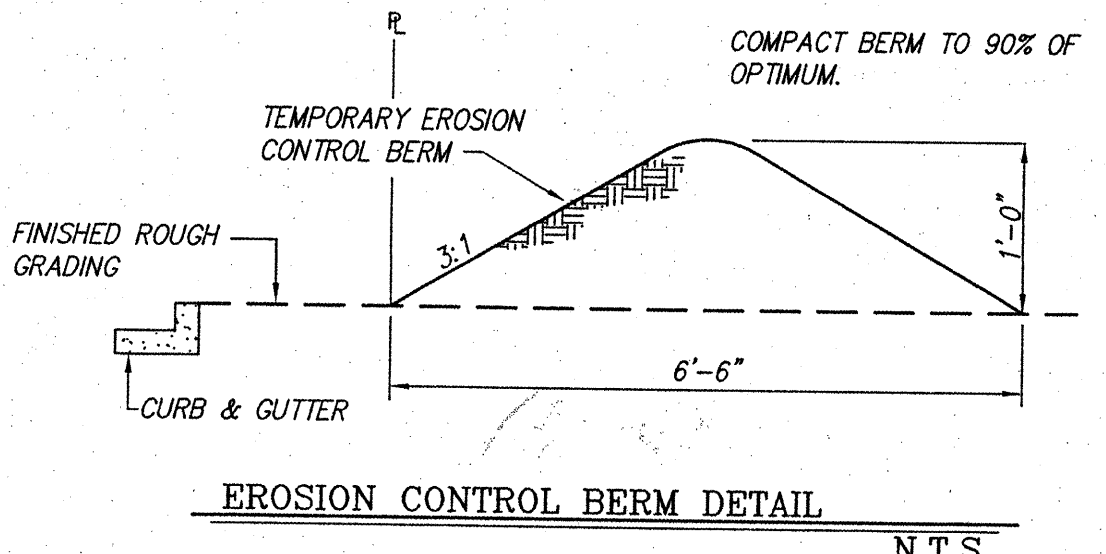
TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL

N.T.S. ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT LOTS GREATER THAN 2.8' WILL REQUIRE RETAINING WALLS

ROUGH GRADING APPROVAL, ± 1 FT.

NOTES

- CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
- CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
- THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
- THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
- THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
- SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE.

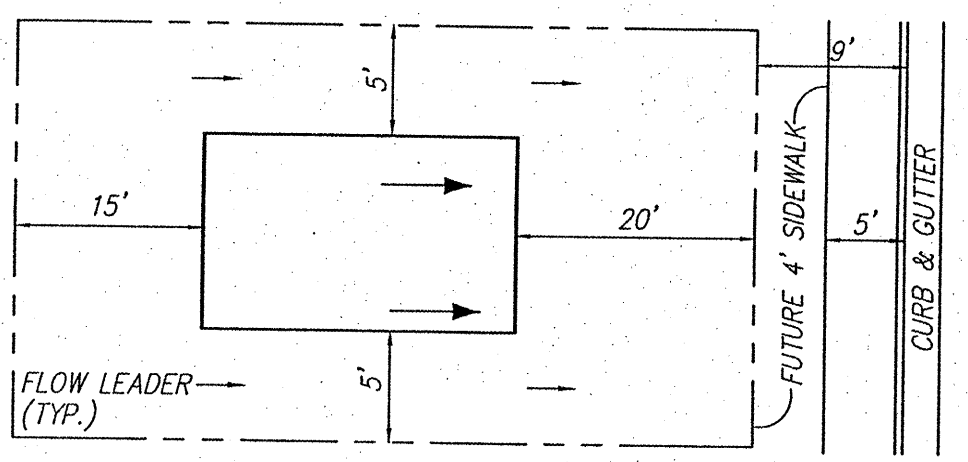


EROSION CONTROL BERM DETAIL

N.T.S.

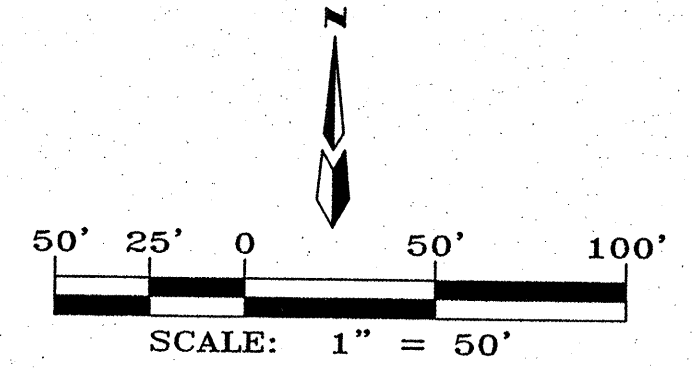
EROSION CONTROL NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- EROSION CONTROL BERMS ARE REQUIRED AROUND THE ENTIRE SITE.
- ALL EROSION CONTROL BERMS MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.



TYPICAL LOT LAYOUT PLAN

N.T.S.



SCALE: 1" = 50'

dmg MARK GOODWIN & ASSOCIATES, P.A.
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P.O. BOX 90606
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(505) 828-2200, FAX (505) 797-9539

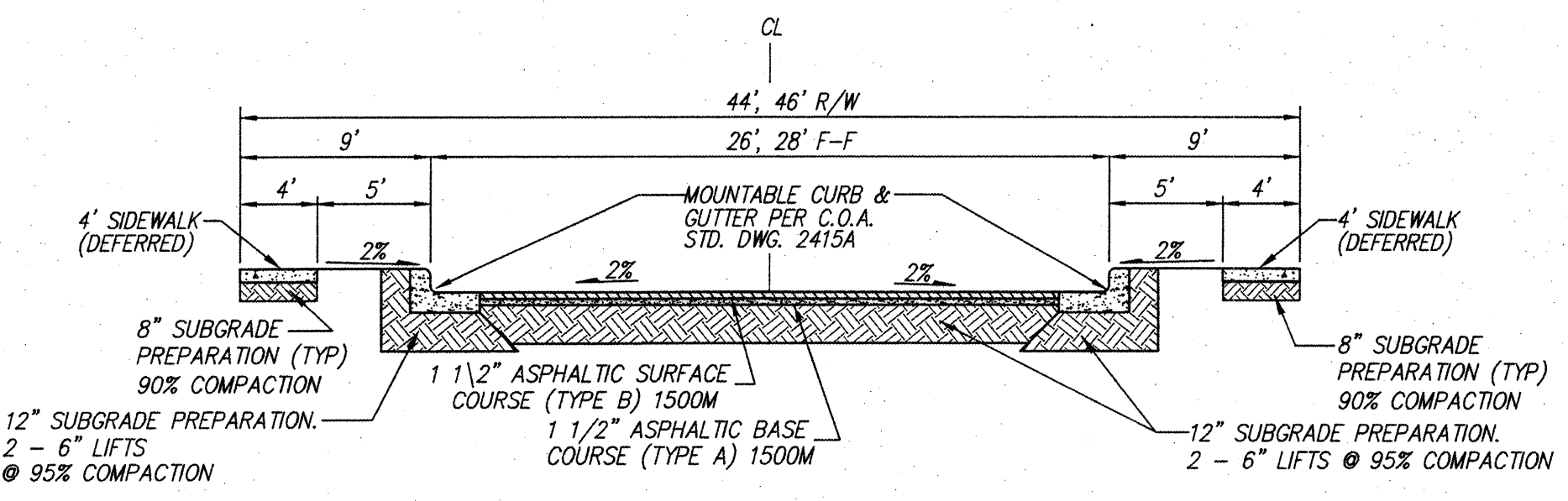
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **FOR INFORMATION ONLY**
TRAILS AT LAS MARCADAS SUBDIVISION
GRADING & DRAINAGE PLAN

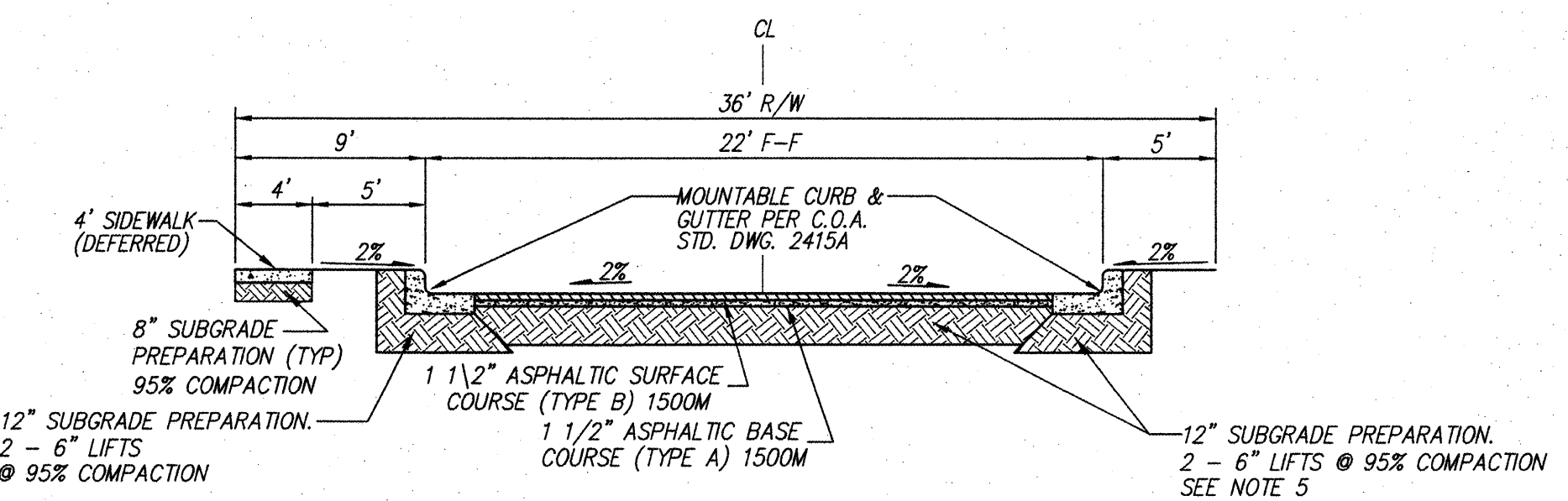
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. **725681** ZONE MAP NO. **C-12** SHEET **4** OF **10**

ENGINEER'S SEAL			FIELD NOTES			BENCH MARKS			AS BUILT INFORMATION		
										</	

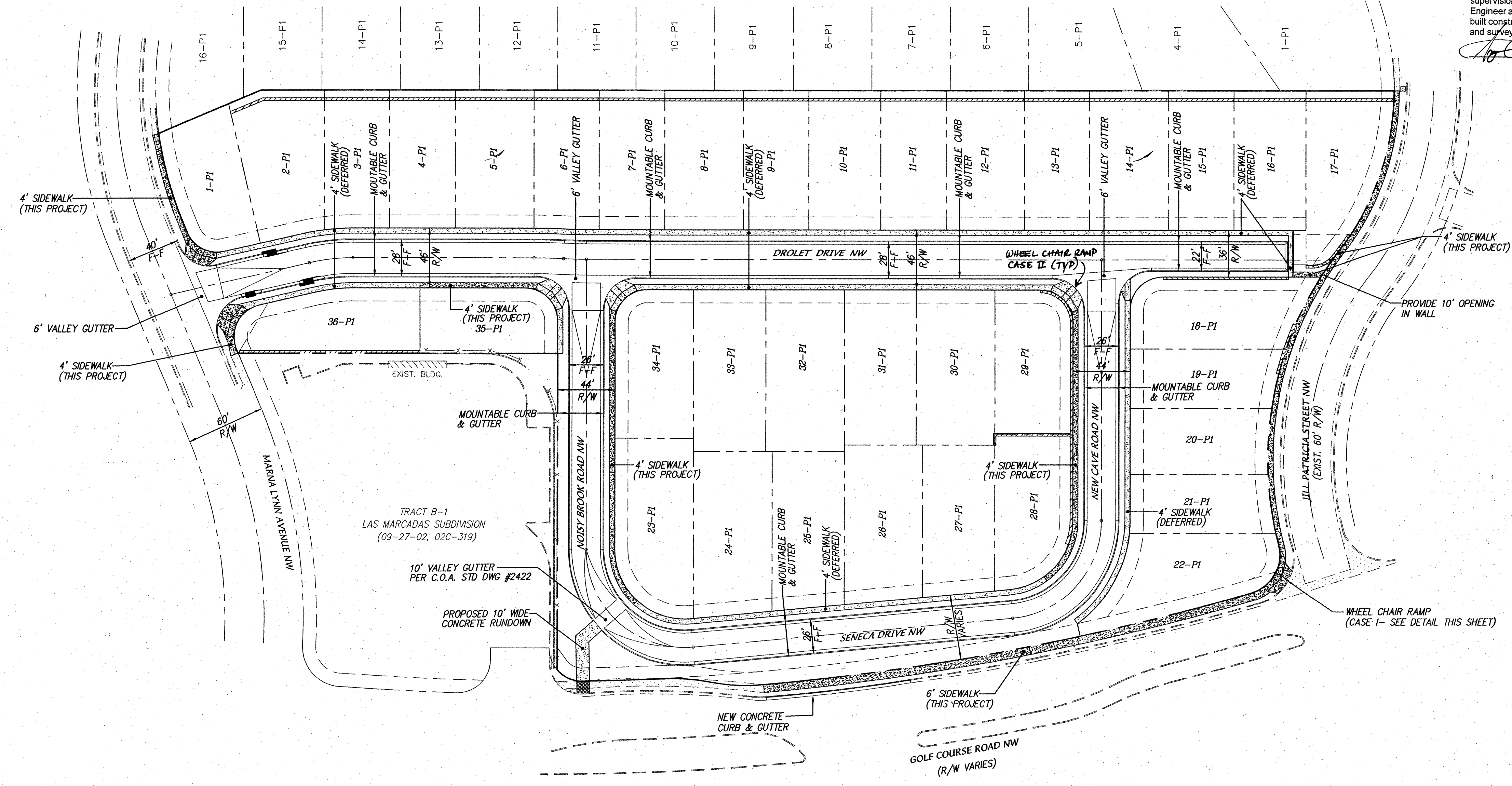


TYPICAL 26' & 28' RESIDENTIAL STREET SECTION
N.T.S. (SEE NOTE 5)



TYPICAL 22' RESIDENTIAL STREET SECTION
N.T.S. (SEE NOTE 5)

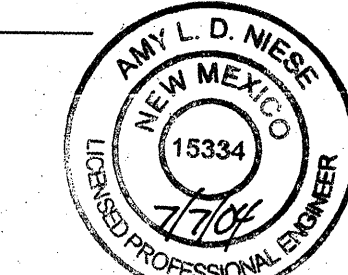
LAS MARCADAS SUBDIVISION
BLOCK 2
(03-08-94, 94C-72)



- NOTES**
- ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
 - ALL 6\"/>

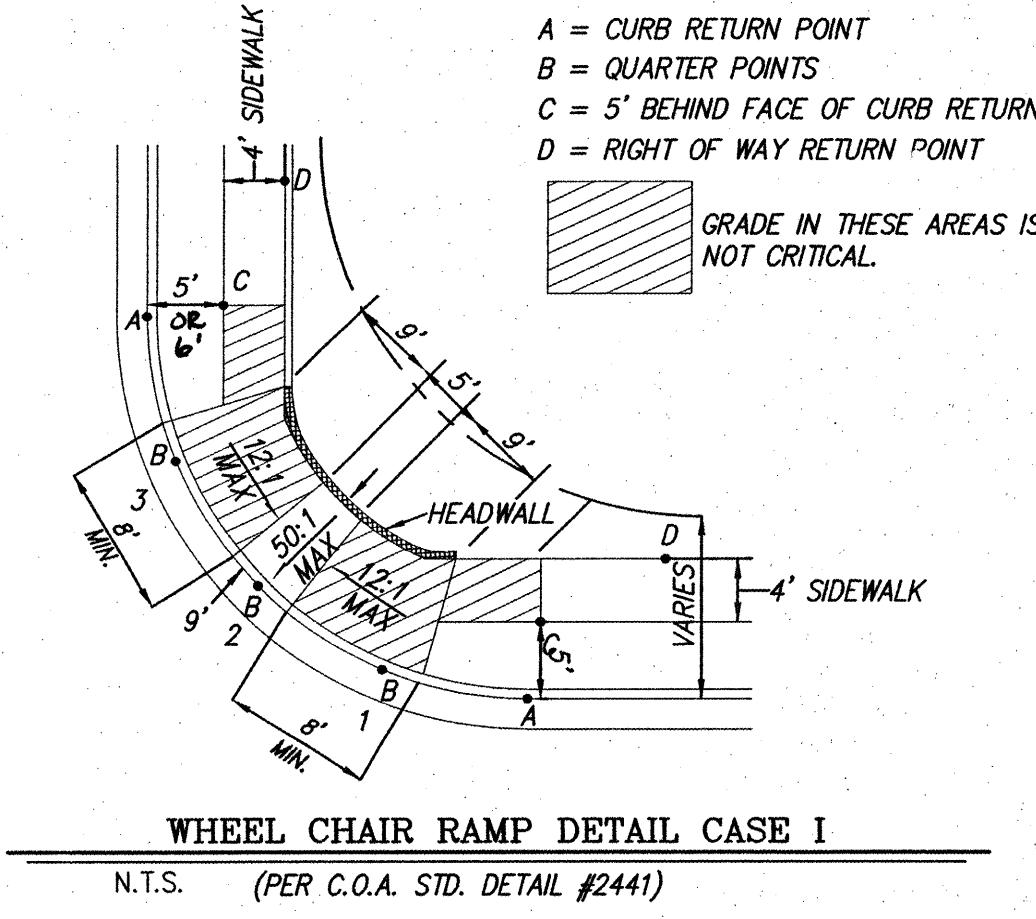
CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L.D. Niese, NMPE 15334, 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.

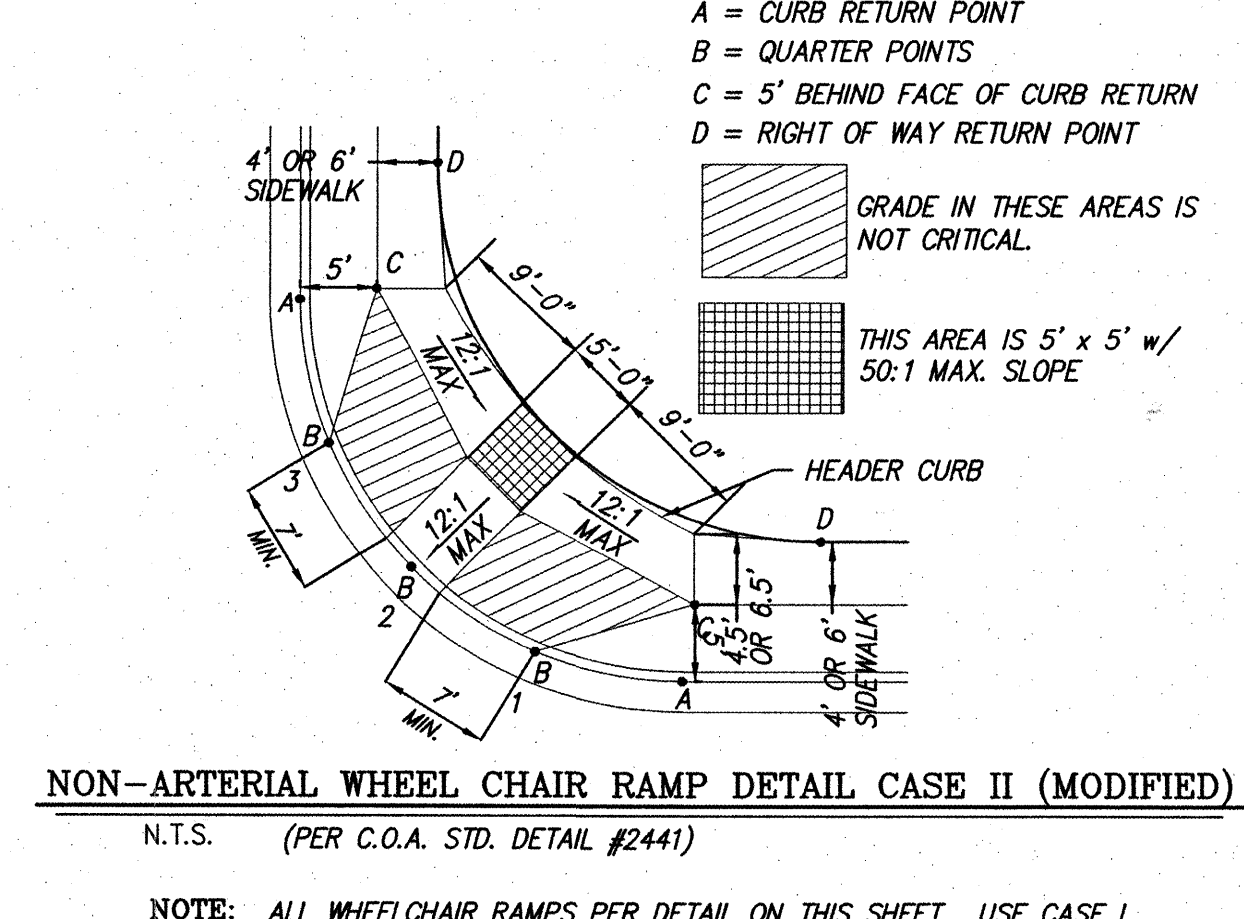


- LEGEND**
- EXISTING CURB & GUTTER
 - BOUNDARY LINE
 - EXISTING ADJOINING PROPERTY LINE
 - EXISTING CONCRETE/SIDEWALK
 - PROPOSED STANDARD CURB & GUTTER
 - PROPOSED MOUNTABLE CURB & GUTTER
 - PROPOSED LOT LINE
 - PROPOSED/EXISTING EASEMENT LINE
 - PROPOSED CENTERLINE
 - PROPOSED CROWN TRANSITION
 - PROPOSED CONCRETE SIDEWALK (THIS PROJECT)
 - PROPOSED CONCRETE SIDEWALK (DEFERRED)
 - PROPOSED STREET LIGHT
 - WHEEL CHAIR RAMP (THIS PROJECT)
 - PROPOSED NEW OFFSITE PAVEMENT
 - REMOVE & REPLACE PAVEMENT

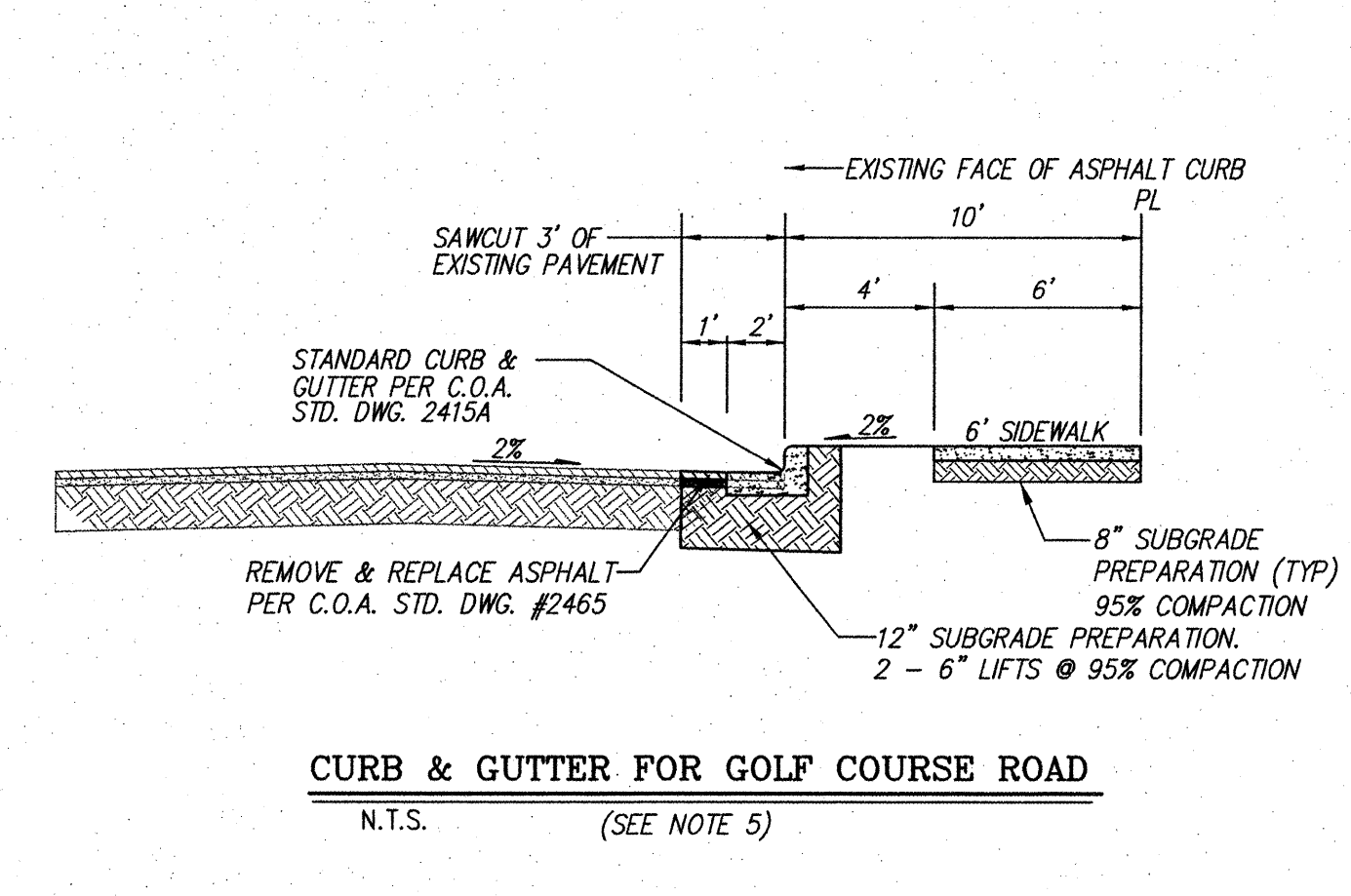
- TRAFFIC NOTES**
- IF REQUIRED, ONLY SINGLE LANE CLOSURES ON GOLF COURSE ROAD WILL BE ALLOWED.
 - LANE CLOSURES ON GOLF COURSE ROAD WILL NOT BE ALLOWED FROM 6:00 A.M. TO 9:00 A.M., AND FROM 4:00 P.M. TO 7:00 P.M., MONDAY THROUGH FRIDAY.
 - ARTERIAL/COLLECTOR ROAD USAGE FEES OF \$0.01 PER SQUARE FOOT OF BARRICADED AREA PER DAY WILL BE COLLECTED FOR ALL LANE CLOSURES IN GOLF COURSE ROAD.



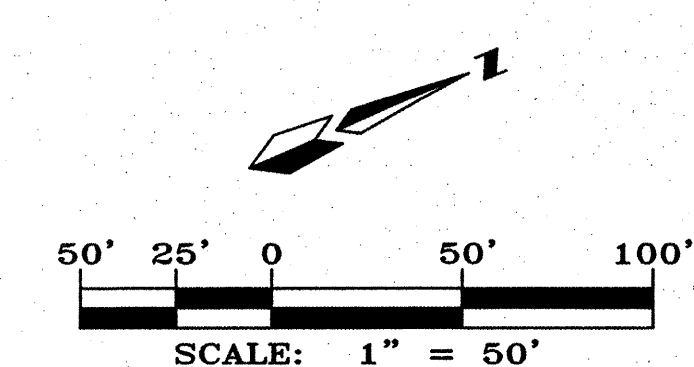
WHEEL CHAIR RAMP DETAIL CASE I
N.T.S. (PER C.O.A. STD. DETAIL #2441)



NON-ARTERIAL WHEEL CHAIR RAMP DETAIL CASE II (MODIFIED)
N.T.S. (PER C.O.A. STD. DETAIL #2441)



CURB & GUTTER FOR GOLF COURSE ROAD
N.T.S. (SEE NOTE 5)

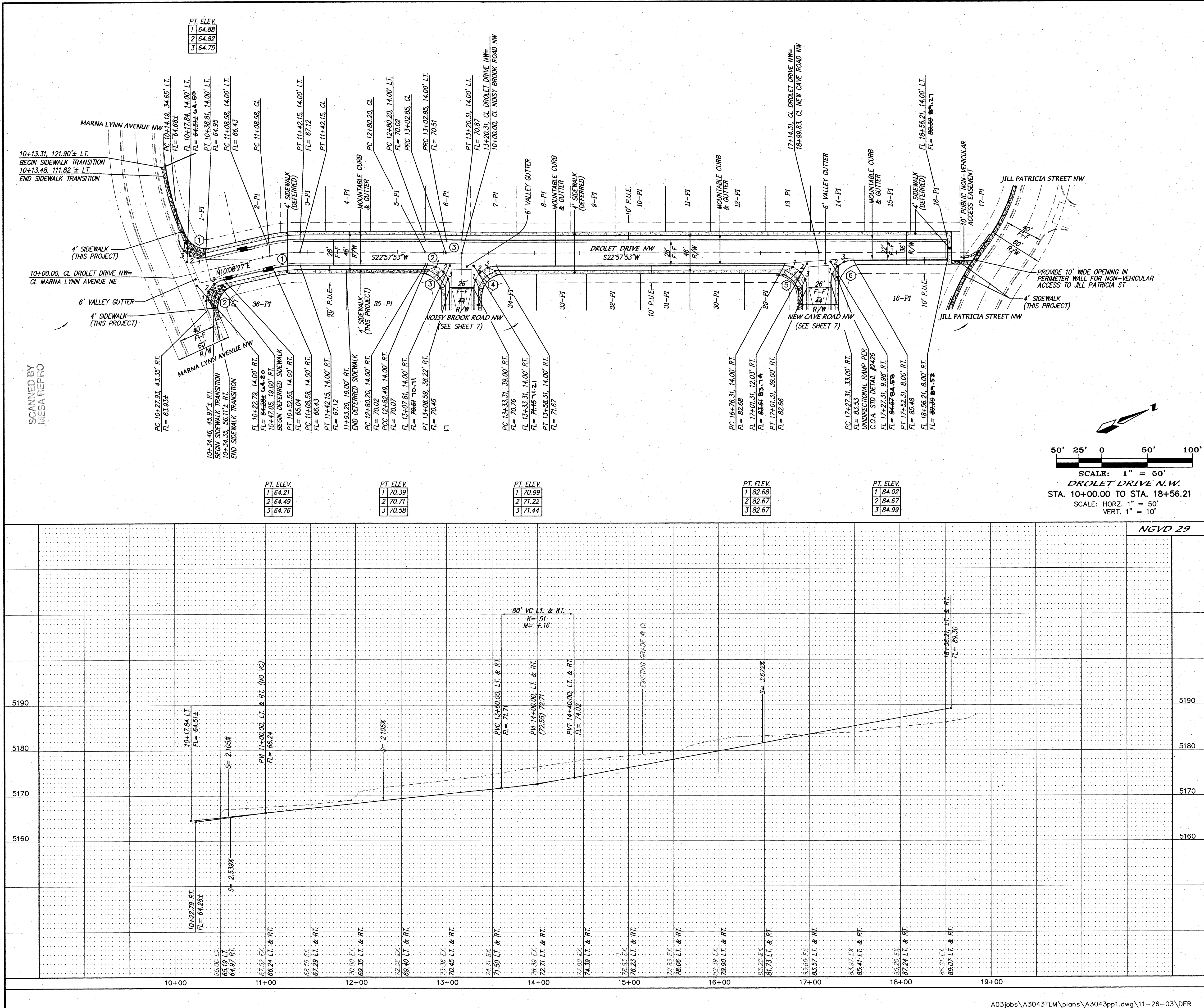


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **TRAILS AT LAS MARCADAS SUBDIVISION MASTER PAVING PLAN**

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 30 2003	FEB 18 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	
CITY PROJECT NO. 725681	ZONE MAP NO. C-12-Z	SHEET 5 OF 10	



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF NEW CURB

① $\Delta = 79^{\circ}58'24''$ $R = 25.00'$ $L = 34.90'$ $T = 20.97'$	② $\Delta = 100^{\circ}00'36''$ $R = 25.00'$ $L = 43.64'$ $T = 29.80'$	③ $\Delta = 89^{\circ}42'39''$ $R = 25.00'$ $L = 39.14'$ $T = 24.87'$
④ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	⑤ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$	⑥ $\Delta = 90^{\circ}00'00''$ $R = 25.00'$ $L = 39.27'$ $T = 25.00'$

CURVE DATA - DESCRIBES CENTERLINE/BASELINE

① $\Delta = 12^{\circ}49'26''$ $R = 150.00'$ $L = 33.57'$ $T = 16.86'$	② $\Delta = 02^{\circ}51'27''$ $R = 454.32'$ $L = 22.66'$ $T = 11.33'$	③ $\Delta = 02^{\circ}51'27''$ $R = 350.00'$ $L = 17.45'$ $T = 8.73'$
---	---	--

SCALE: 1" = 50'

STA. 10+00.00 TO STA. 18+56.21

SCALE: HORZ. 1" = 50'

VERT. 1" = 10'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. D. Niese, NMPE 15334, 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.

AMY L. D. NIESE
NEW MEXICO
15334
REGISTERED PROFESSIONAL ENGINEER

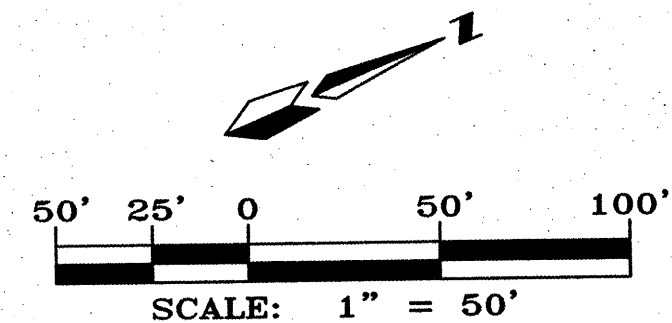
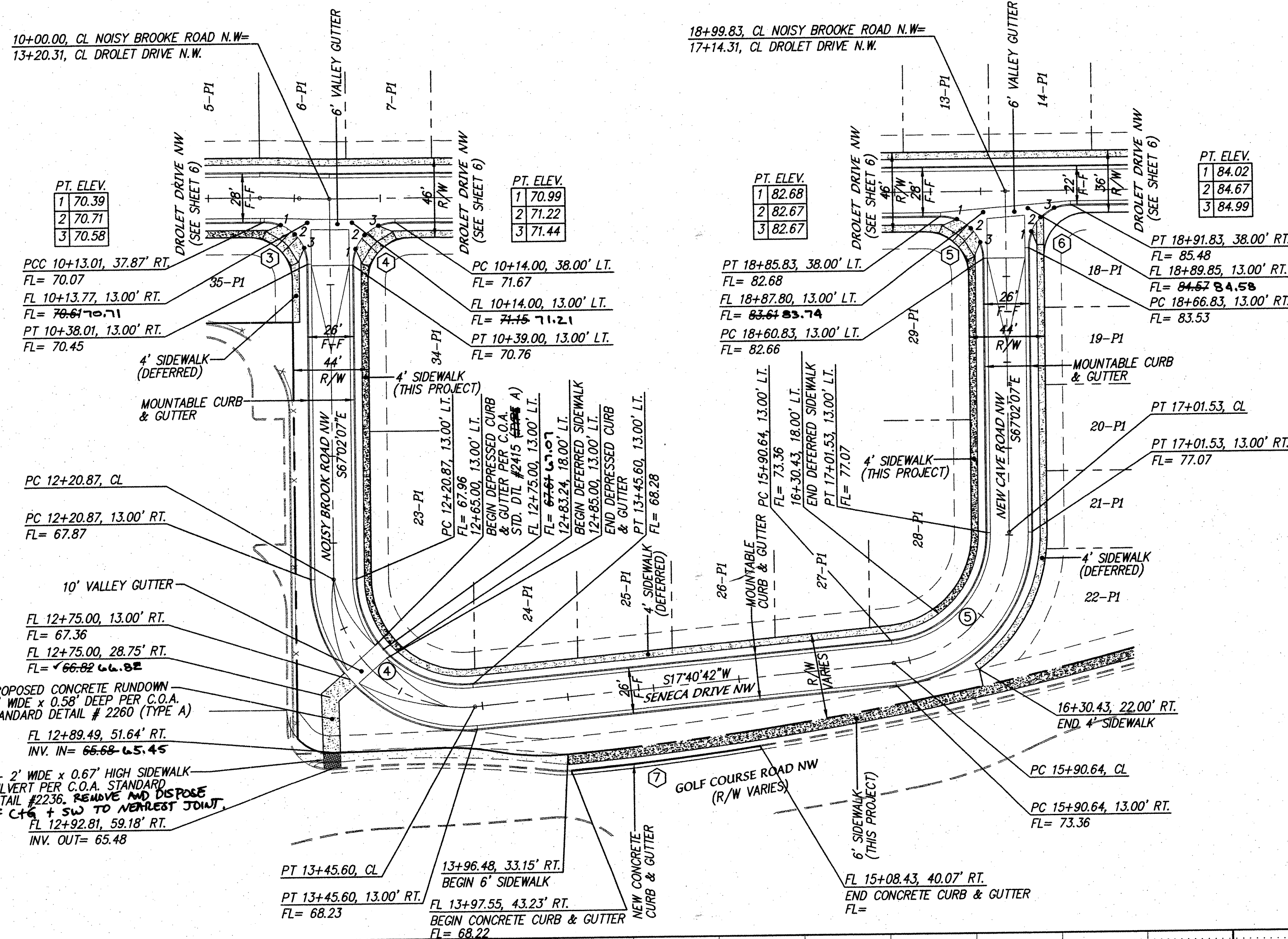
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED DEC 30 2003	APPROVED FEB 18 2004		
DESIGN REVIEW COMMITTEE	CITY ENGINEER	LAST DESIGN UPDATE	

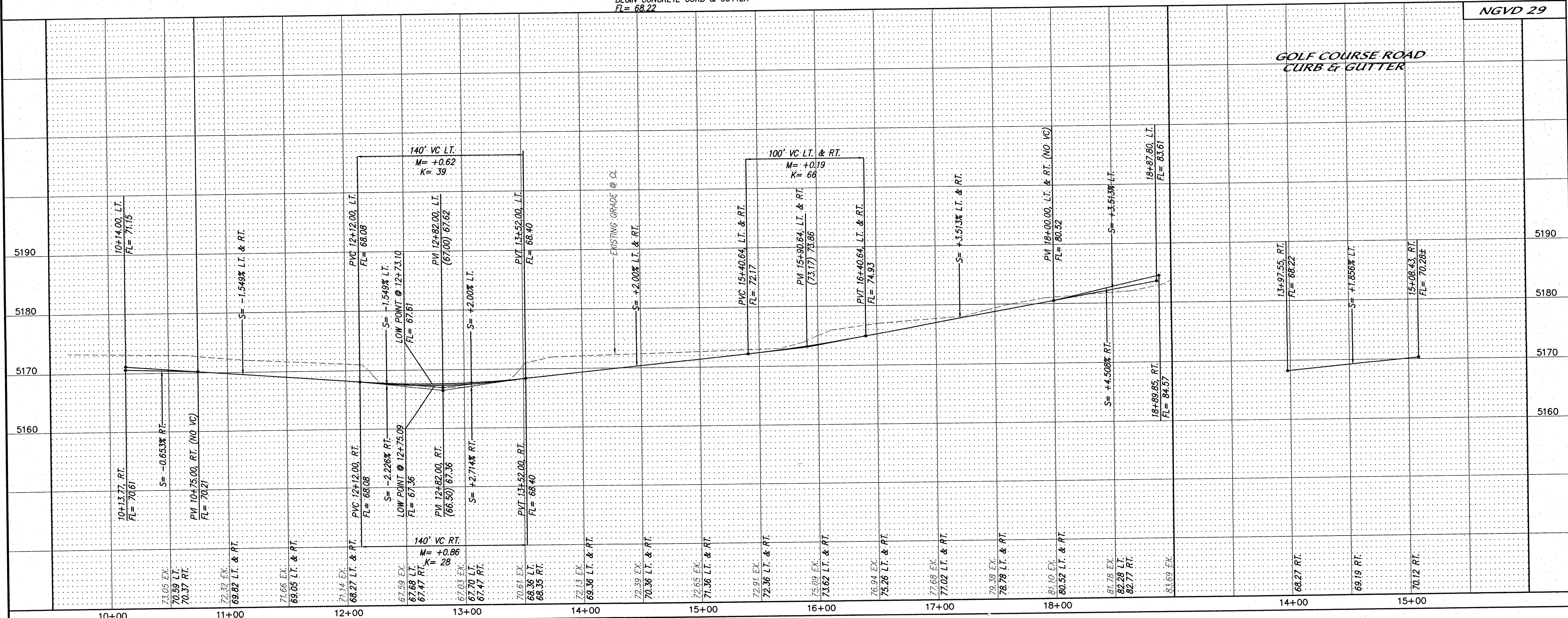
CITY PROJECT NO. 725681

ZONE MAP NO. C-12-Z

SHEET 6 OF 10



NOISY BROOK RD./SENECA DR.
& NEW CAVE RD. N.W.
STA. 10+00.00 TO STA. 18+99.83
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF NEW CURB

③ Δ = 89°42'39"	④ Δ = 90°00'00"	⑤ Δ = 90°00'00"
R = 25.00'	R = 25.00'	R = 25.00'
L = 39.14'	L = 39.27'	L = 39.27'
T = 24.87'	T = 25.00'	T = 25.00'

CURVE DATA - DESCRIBES CENTERLINE/BASELINE

④ Δ = 95°17'11"	⑤ Δ = 84°42'49"
R = 75.00'	R = 75.00'
L = 124.73'	L = 110.89'
T = 82.26'	T = 68.38'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. D. Niese, NMPE 15334, 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.

AMY L. D. NIESE
NEW MEXICO
15334
REGISTERED PROFESSIONAL ENGINEER

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: TRAILS AT LAS MARCAS SUBDIVISION
NOISY BROOK RD., SENECA DR. & NEW CAVE RD. N.W.
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE APPROVED DEC 3 0 2003	CITY ENGINEER APPROVAL APPROVED FEB 18 2004	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
DESIGN REVIEW COMMITTEE	CITY ENGINEER			

CITY PROJECT NO. 725681 ZONE MAP NO. C-12-Z SHEET 7 OF 10

1. ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO UTILITIES, INC. SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISIONS). THE CONTRACTOR SHALL NOTIFY NEW MEXICO UTILITIES (898-2661) THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION OF THE UTILITIES.
2. VALVES SHALL ONLY BE OPERATED BY N.M.U.I. EMPLOYEES.
3. NON-PRESSURE CONNECTION AT MARNA LYNN AVE. NW & DROLET DRIVE NW. CLOSE VALVES A & B AS SHOWN ON THIS SHEET.
4. NON-PRESSURE CONNECTION AT JILL PATRICIA STREET NW & DROLET DRIVE NW. CLOSE VALVES B & C AS SHOWN ON THIS SHEET.

	EXISTING CURB & GUTTER
	EXISTING CONCRETE/SIDEWALK
	PROPOSED/EXISTING EASEMENT LINE
	EXISTING STORM DRAIN LINE
	EXISTING STORM DRAIN MAN HOLE
	EXISTING SANITARY SEWER LINE
	EXISTING SANITARY SEWER MAN HOLE
	EXISTING WATER LINE
	EXISTING WATER GATE VALVE
	EXISTING FIRE HYDRANT
	EXISTING CAP
	EXISTING STREET LIGHT
	EXISTING TELEPHONE PEDISTAL
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER MAN HOLE
	PROPOSED WATER LINE
	PROPOSED SINGLE WATER METER
	PROPOSED DOUBLE WATER METER
	PROPOSED WATER GATE VALVE
	PROPOSED FIRE HYDRANT
	PROPOSED STREET ADDRESS
	PROPOSED STREET LIGHT
	REMOVE & REPLACE PAVEMENT

I, Amv L.D. Niese, NMPE 15334, 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.

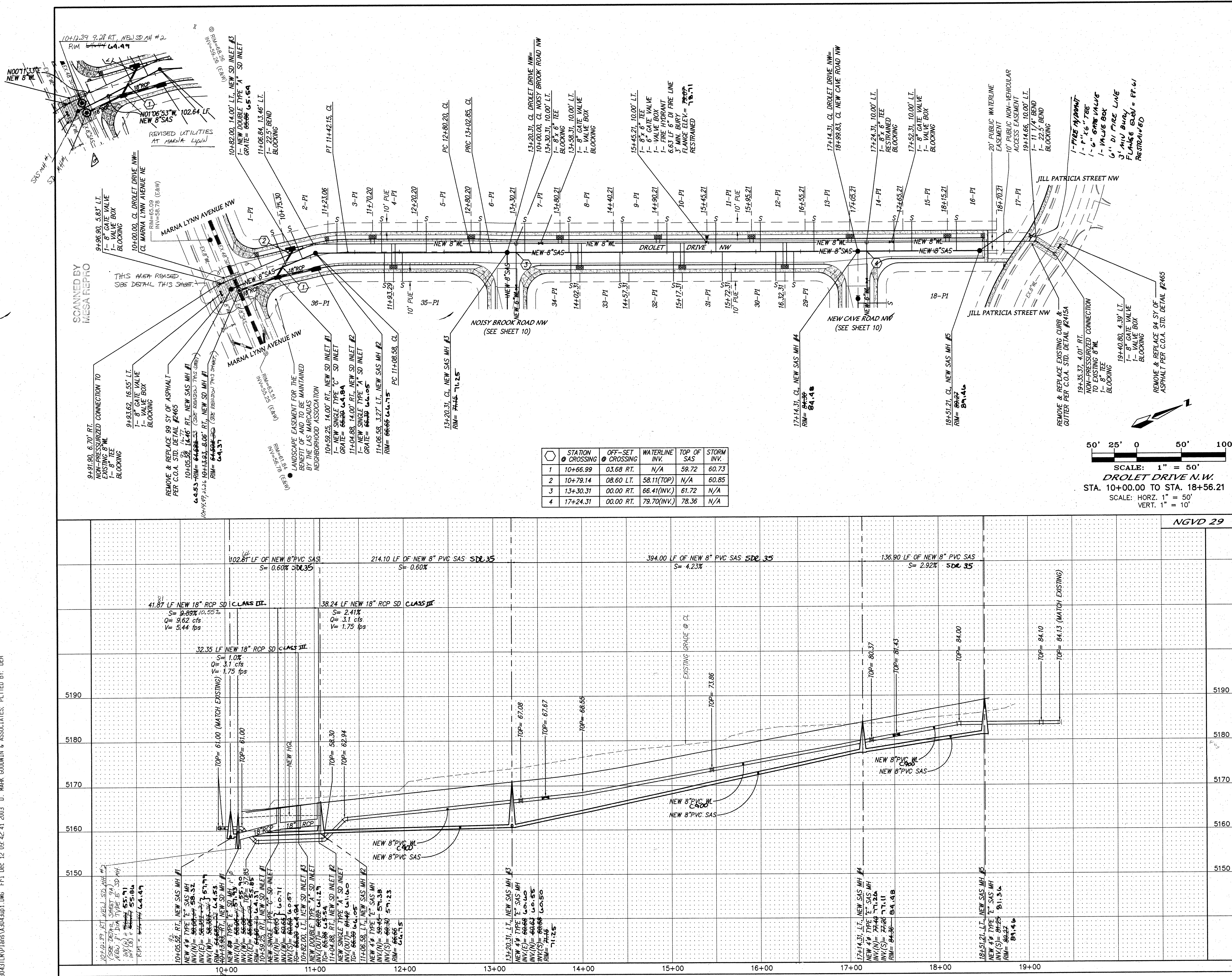
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **TRAILS AT LAS MARCADAS SUBDIVISION
MASTER UTILITY PLAN**

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
725681	C-12-Z	8	10

\\03\005\A3043\TLM\plans\A3043up1.dwg P1 Dec 12 09:42:41 2003 D. MARK GOODWIN & ASSOCIATES, PLTIED BY: DER



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. 4' MINIMUM COVER ON ALL WATERLINES.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. D. Niese, NMPE 15334, 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.

[Signature]
AMY L. D. NIESE
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
15334

N.M.U.I. *[Signature]* 12-15-03 DATE

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	1-P1	10+65.30	60.45	36.42'
2	2-P1	10+85.30	60.51	33.32'
3	3-P1	11+32.35	60.91	33.61'
4	4-P1	11+80.20	61.18	34.00'
5	5-P1	12+30.20	61.45	33.00'
6	6-P1	12+89.52	61.78	33.90'
7	7-P1	13+40.21	62.67	33.00'
8	8-P1	13+90.21	64.83	33.00'
9	9-P1	14+50.21	67.40	33.00'
10	10-P1	15+00.21	69.55	33.00'
11	11-P1	15+55.21	71.93	33.00'
12	12-P1	16+05.21	74.08	33.00'
13	13-P1	16+65.21	76.66	33.00'
14	14-P1	17+55.21	79.84	33.00'
15	15-P1	17+75.21	80.44	33.00'
16	16-P1	18+25.21	81.93	33.00'
17	17-P1	18+80.21	83.40	35.23'
18	18-P1	19+42.31	76.01	33.00'
19	19-P1	16+22.31	74.82	33.00'
20	20-P1	15+62.31	72.23	33.00'
21	21-P1	15+07.31	69.87	33.00'
22	22-P1	14+47.31	67.28	33.00'
23	23-P1	13+92.31	64.92	33.00'
24	24-P1	12+03.29	61.27	32.00'
25	25-P1	11+83.29	61.16	32.00'

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'

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 LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
6"x6"x6"	10'	2'

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ALBUQUERQUE, NEW MEXICO 87199
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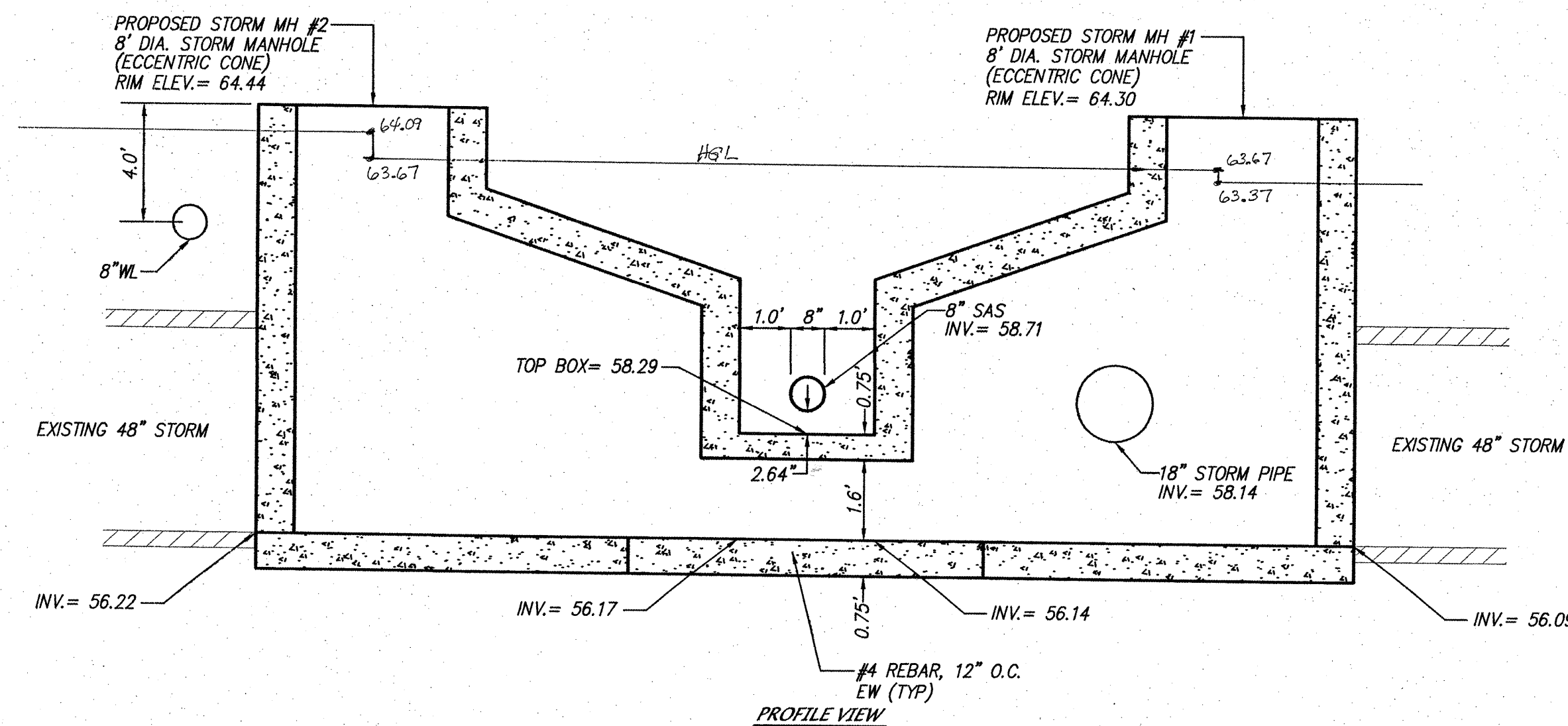
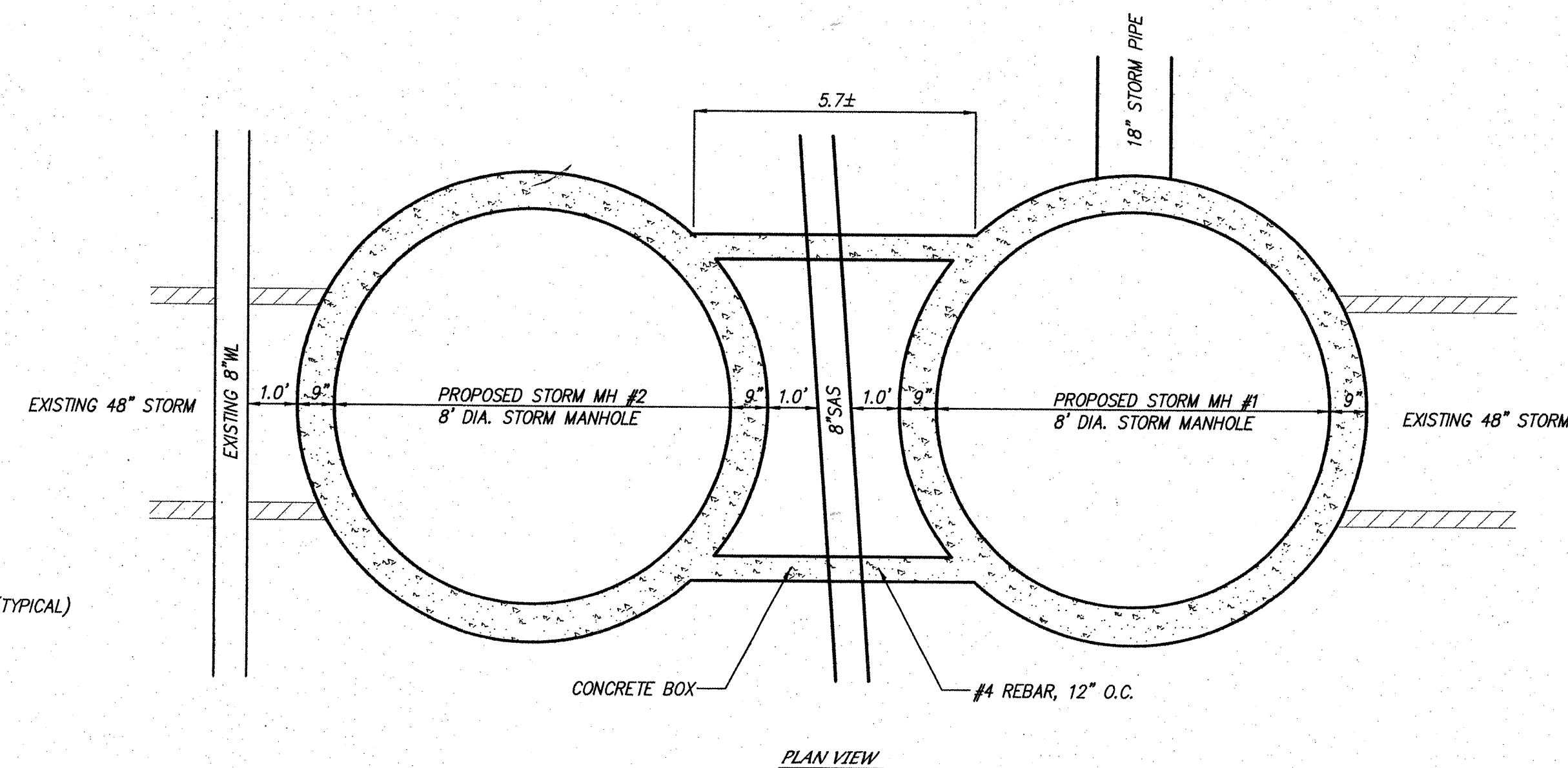
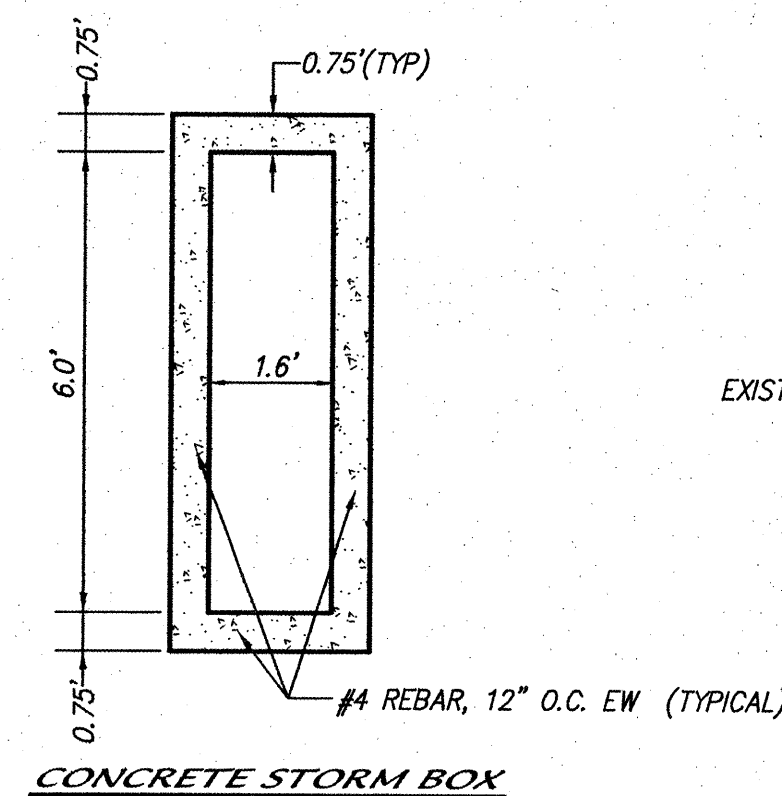
**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: **TRAILS AT LAS MARCADAS SUBDIVISION
DROLE DRIVE N.W.
UTILITY IMPROVEMENTS**

DESIGN COMMITTEE: **DEC 30 2003**
CITY ENGINEER: **FEB 18 2004**

CITY PROJECT NO. **725681** ZONE MAP NO. **C-12-Z** SHEET **9** OF **10**

SCANNED BY
MESA REPRO



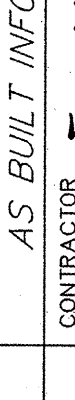
STORM DRAIN DETAIL

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. D. Niese, NMPE 15334, 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.

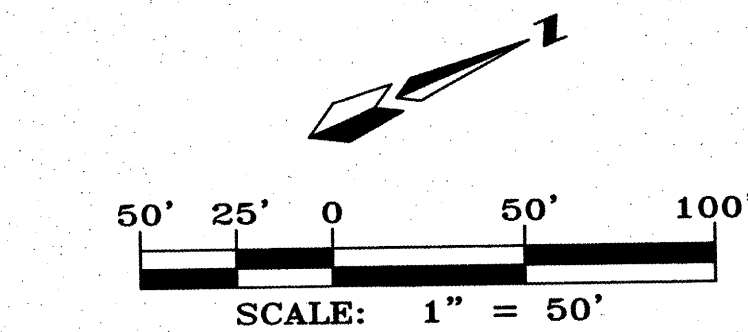
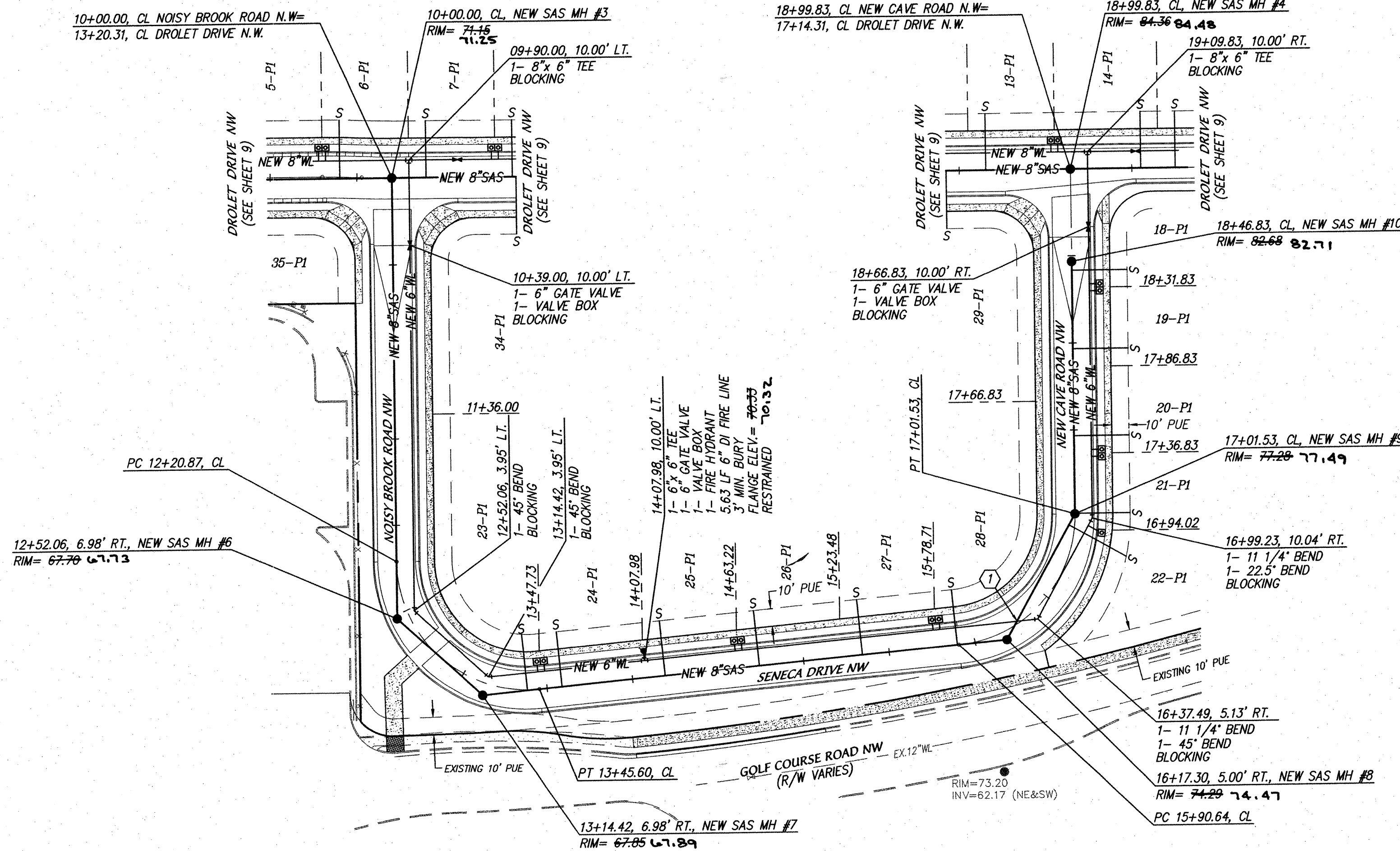


	MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS						NO. 01 DESIGNED BY DRAWN BY CHECKED BY	NO. 01 DESIGNED BY DRAWN BY CHECKED BY
	P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539							
 CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT								
TITLE: <i>TRAILS AT LAS MARCADAS SUBDIVISION DROLET DRIVE N.W. UTILITY IMPROVEMENTS</i>								
REGIONAL REVIEW COMMITTEE APPROVE MAR 2 4 2004 D DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL APPROVE MAR 2 4 2004 D CITY ENGINEER		LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.	SHEET	OF
CITY PROJECT NO. 725681		ZONE MAP NO. C-12-Z		9A		10		

ENGINEER'S SEAL	SURVEY INFORMATION		BENCH MARKS	AS BUILT INFORMATION	
	NO.	FIELD NOTES BY DATE		CONTRACTOR	DATE
			ACS Brass Cap stamped "3-B12"	FRANKLIN'S	
			From I-40 and Coors Rd. go North on Coors 5.75 miles to Paradise Blvd, turn West go 1.6 miles to Redcliffe Rd., turn south go 0.1 mile to a dirt road cutting off going Southeast 0.07 miles to top of escarpment.	INSPECTED BY ACCEPTANCE BY	DATE DATE
			Continue 0.36 miles. The station is 185 feet Southeast of this point.	VERIFICATION BY DRAWINGS CORRECTED BY	DATE DATE DATE
			Geographic Position (NAD 1927), in feet		
			N.M. State Plane Coordinates (Central Zone) X=393,484.87, Y=1,524,345.87	RECORDED BY NO.	DATE

SCANNED BY
MESA REPRO

STATION	OFF-SET	WATERLINE	TOP OF
1	16+27.44	01.31 LT.	69.42
			65.75



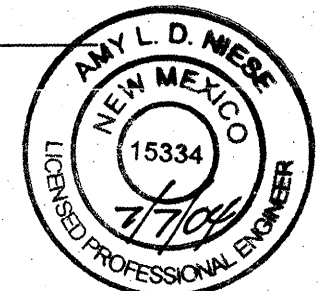
NOISY BROOK RD./SENECA DR.
& NEW CAVE RD. N.W.
STA. 10+00.00 TO STA. 19+09.83
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. 4' MINIMUM BURY ON ALL WATERLINES UNLESS OTHERWISE NOTED.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

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N.M. DATE 12-15-03

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
18-P1		18+41.83	77.29	32.00'
19-P1		17+96.83	75.51	32.00'
20-P1		17+46.83	73.52	32.00'
21-P1		17+01.83	71.74	32.00'
22-P1		16+84.10	70.86	37.81'
23-P1		13+33.45	64.05	32.00'
24-P1		13+58.70	64.20	32.00'
25-P1		14+18.95	64.54	32.00'
26-P1		14+74.19	64.86	32.00'
27-P1		15+34.44	65.20	32.00'
28-P1		15+89.68	65.52	32.00'

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'

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

RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
6"x6"x6"	10'	2'

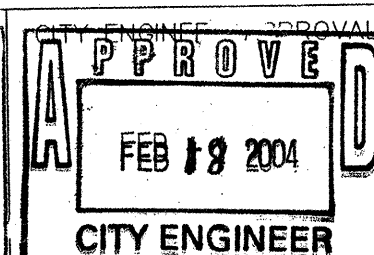
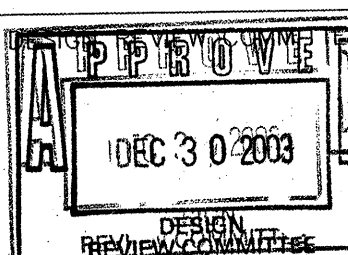


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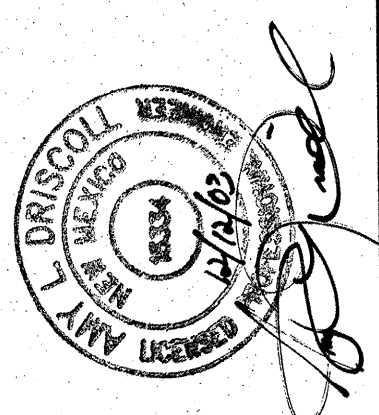
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: TRAILS AT LAS MARCADAS SUBDIVISION
NOISY BROOK RD., SENECA DR. & NEW CAVE RD. N.W.
UTILITY IMPROVEMENTS



CITY PROJECT NO. 725681 ZONE MAP NO. C-12-Z SHEET 10 OF 10

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	NO.	DATE	NO.	DATE
ALS	DATE	ALS	DATE				
INSPECTED BY	DATE	INSPECTED BY	DATE				
ADJUSTED BY	DATE	ADJUSTED BY	DATE				
VERIFIED BY	DATE	VERIFIED BY	DATE				
CORRECTED BY	DATE	CORRECTED BY	DATE				
MICRO-FILM INFORMATION		MICRO-FILM INFORMATION					
RECORDED BY	DATE	RECORDED BY	DATE				
NO.		NO.					



DESIGNED BY ALD DATE 09/03
DRAWN BY DER DATE 09/03
CHECKED BY DMG DATE 09/03