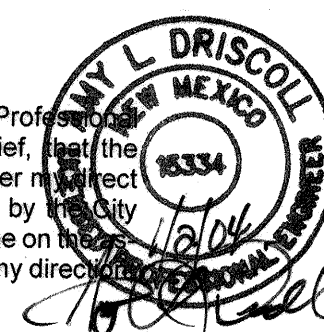


SCANNED BY
MESA REPRO

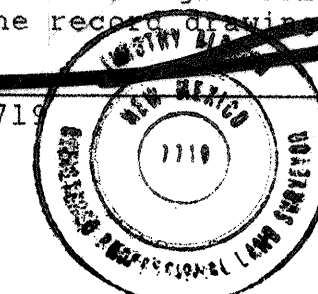
I, Amy L. Driscoll, NMPE 15334, of the firm Mark Goodwin & Associates, PA, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision, and has been constructed in accordance with the plans and specifications approved by me as a Professional Engineer and that the original design intent of the approved plans has been met, except as noted by me on the built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.



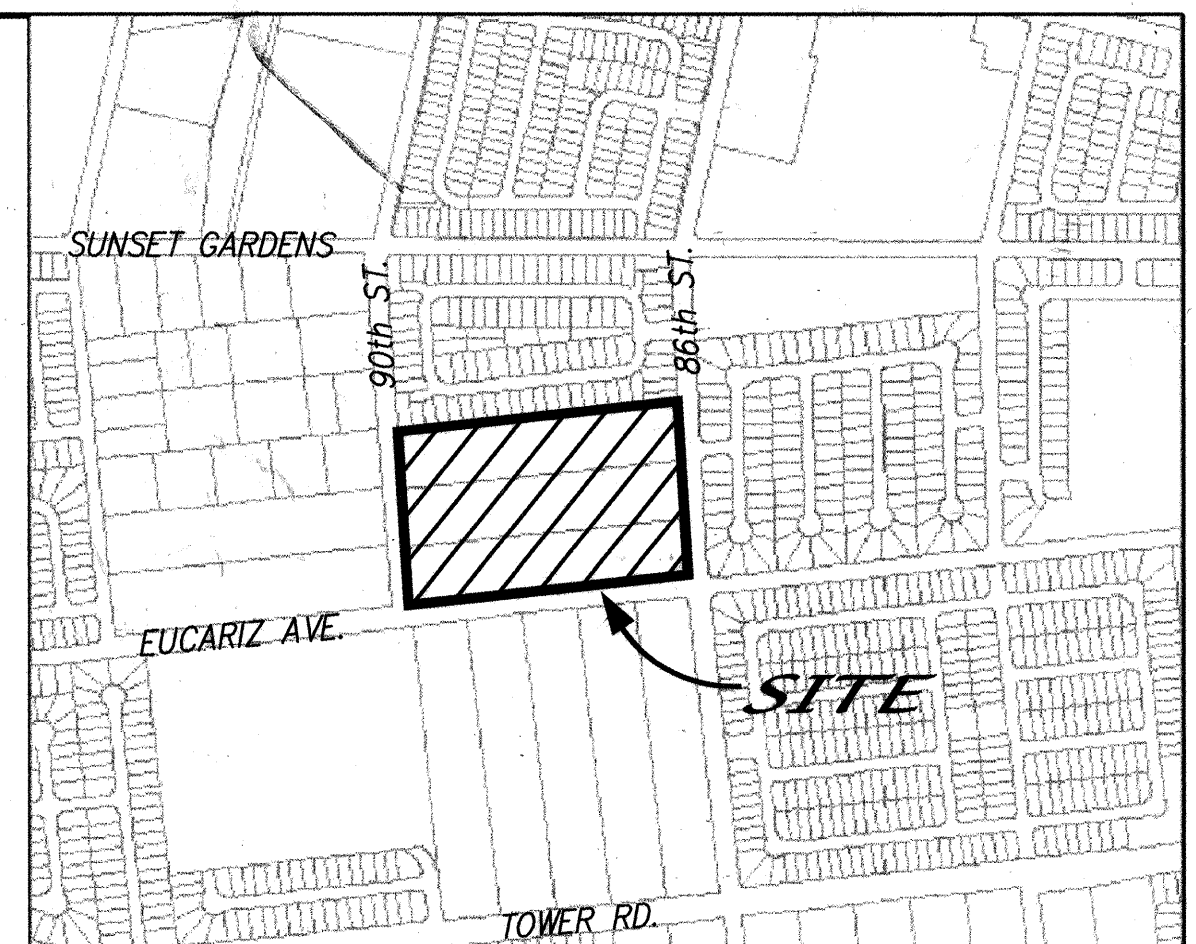
SHEET NO.	SHEET
1	TITLE SHEET
2-3	PLAT
4	GRADING AND DRAINAGE PLAN
5	MASTER PAVING PLAN
6-13	PAVING IMPROVEMENTS
14	MASTER UTILITY PLAN
15-21	UTILITY IMPROVEMENTS
22	WATER DETAILS
23-24	TRAFFIC CONTROL

"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. I further certify that the 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 the design concepts, calculations, engineering or any other information shown on these drawings.

Timothy Aldrich, P.S. No. 7719  Date



1001267



GENERAL NOTES

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. TWO (5) WORKING DAYS PRIOR TO BEGINNING OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE.
6. 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 OCCUPANCY AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
7. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
8. ALL STREET STRIPPING 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.
9. 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 NOTICE. 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.
10. 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.
11. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
12. 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.
13. FOR STORM DRAIN CONSTRUCTION, RCP JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL FINAL INSPECTION. FINAL INSPECTION WILL DETERMINE JOINTS TO BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.
14. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 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.
- ☐ 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 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.

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

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS	ENGINEER	DATE	*****		
		DRC CHAIRMAN	<i>[Signature]</i>	7-16-03	APPROVED FOR CONSTRUCTION		
		TRANSPORTATION	<i>[Signature]</i>	7/16/03			
		WATER/WASTEWATER	<i>[Signature]</i>	7/16/03			
		HYDROLOGY	<i>[Signature]</i>	7/16/03			
		CIP					
		CONSTR. MNGMT.					
		CONSTR. COORD.	<i>[Signature]</i>	7-16-03	CITY ENGINEER DATE		
CITY PROJECT NO.				SHEET OF			
7133.81				1 24			

A2108CP/DWG/A2108-COVER/06-16-03/ACH



LOCATION MAP
SCALE: NONE

SUBDIVISION DATA

Plat Case No.'s.....
Case No.'s.....
DRB Project No. 1001287
03DRB-00021
03DRB-00022
Zone Atlas L-9-Z
Gross Acreage..... 15.0861 AC.
Zone Atlas No. L-9-Z
No. of existing Tracts/Lots..... 3 Tracts
No. of Tracts/Lots created..... 111 Lots
No. of Tracts/Lots eliminated..... 3 Tracts
Miles of full width streets created..... 0.70
Area dedicated to the City of Albuquerque..... 3.8062 AC.
Date of Survey..... October, 2002
Utility Control Location System Log Number..... 2002440499
Zoning..... RD/6 DU/AC

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 rights-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 herein, 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.

OWNER: KB HOME New Mexico, Inc., a New Mexico Corporation
By: Greg Bredelove, Vice-President of Land Development
Greg Bredelove
DATE 5/14/2003

OWNER'S ACKNOWLEDGMENT
STATE OF NEW MEXICO SS
COUNTY OF BERNALILLO
This instrument was acknowledged before me on May 14, 2003
By Greg Bredelove, Vice-President of Land Development for KB HOMES New Mexico, Inc.,
A New Mexico Corporation on behalf of said corporation.
Kimberly Swartz
NOTARY PUBLIC
MY COMMISSION EXPIRES 12/19/06

LEGAL DESCRIPTION (SEE SHEET 2)
NOTES: (SEE SHEET 2)
PURPOSE OF PLAT
1. Subdivide three existing tracts into 111 Residential Lots.
2. Grant easements as shown hereon.
3. Dedicate right-of-way as shown hereon.

PUBLIC UTILITY EASEMENTS
PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:
1. The PNM Electric Services Division for the installation, maintenance and service of overhead and underground electrical lines, transformers, poles and any other equipment, fixtures, structures and related facilities reasonably necessary to provide electrical service.
2. The PNM Gas Services Division for installation, maintenance and service of natural gas lines, valves and any other equipment and facilities reasonably necessary to provide natural gas.
3. Qwest for installation, maintenance and service of such lines, cable and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to above ground pedestals and closures.
4. Comcast cable for installation, maintenance and service of such lines, cable and other related facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, improve and maintain facilities for the purposes described above, together with the free access to, from and over said easement, including sufficient parking area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (above ground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated hereon. Property owners shall be solely responsible for correcting any violations of National Electrical Safety Code caused by construction of pools, decking or any structures adjacent to within or near easements shown on this plat.

In approving this plat, the utility companies did not conduct a Title Search of the properties shown hereon. Consequently, the utility companies do not waive or release any easement or easement rights which may have been granted by prior plat, replat or other document and which are not shown on this plat.

Easements for electric transformers/switchgear, as installed, shall extend ten feet (10') in front of transformers/switchgear doors and five feet (5') on each side.

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.

Project Number: 1001287

Application Number: _____

PLAT APPROVAL

Utility Approvals:

PNM Electric Services
Date 6-11-03
PNM Gas Services
Date 6-13-03
Qwest Telecommunications
Date 6-11-03
Comcast
Date 6-3-03

City Approvals:
City Surveyor
Date 6-3-03

Traffic Engineering, Transportation Division
Date
Utilities Development
Date
Parks and Recreation Department
Date
AMAFCA
Date
City Engineer
Date
DRB Chairperson, Planning Department
Date

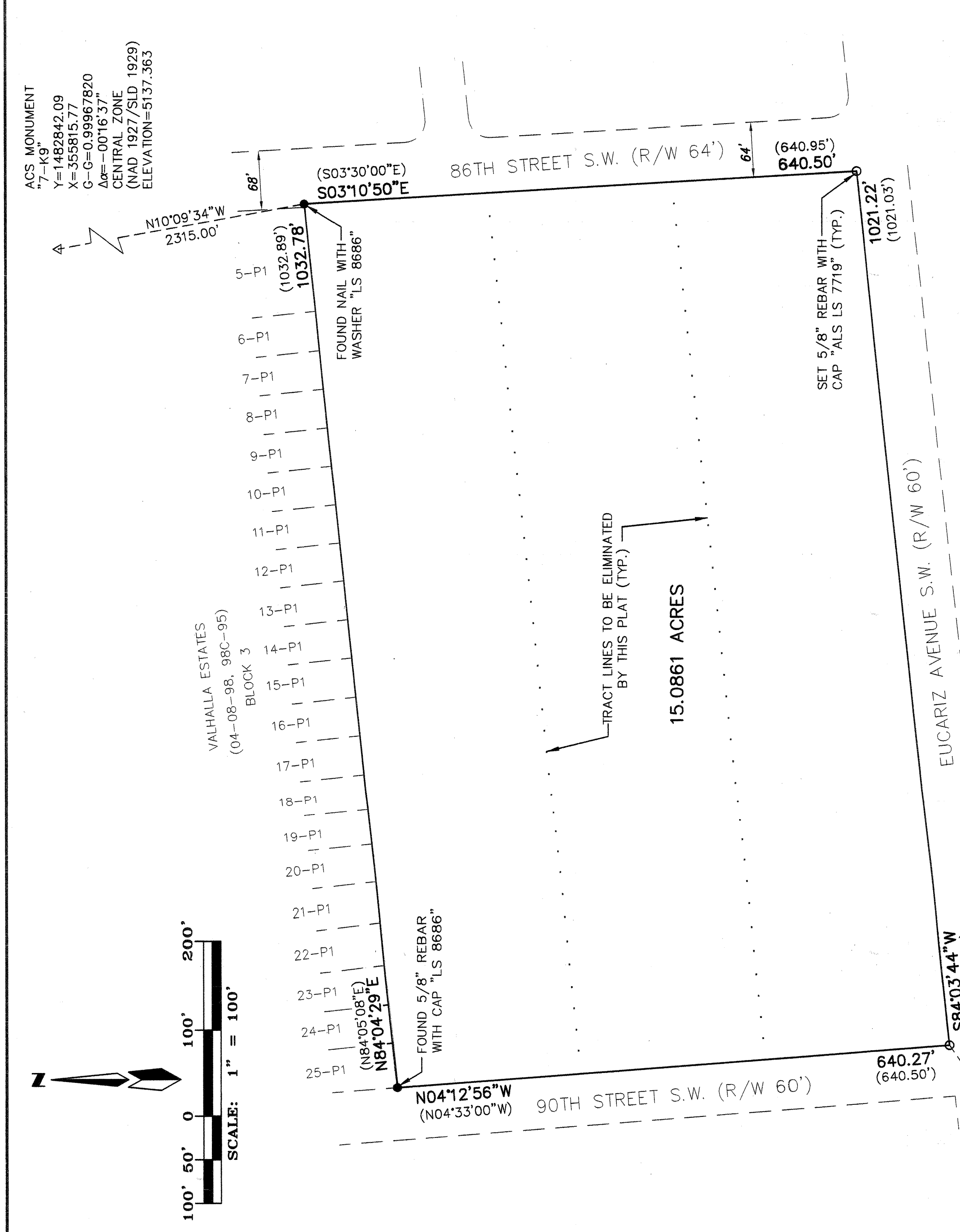
SURVEYOR'S CERTIFICATION

"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 owner(s) and/or proprietor(s) thereof, and that I am a duly qualified and licensed surveyor of the State of New Mexico, and I have read and understand 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 Date 06-03-03

ALDRICH LAND SURVEYING
P.O. BOX 30701 ALBU., N.M. 87190
505-884-1990

Dwg: A2108FPHSH7.dwg Drawn: RICHARD Checked: ALS Sheet 1 of 3
Scale: N/A Date: 05/12/03 Job: A02108



LINE TABLE

LINE ID	LENGTH	BEARING
L1	21.76	S02°56'16"E
L2	36.53	N06°50'46"E
L3	18.40	N03°10'50"W
L4	21.23	N03°10'50"W
L5	15.00	S05°56'16"E
L6	15.00	N04°03'34"E
L7	23.00	N04°03'34"E
L8	20.00	S04°03'44"W
L9	15.01	N04°03'44"E
L10	15.01	S04°12'56"E
L11	23.01	N04°12'56"E
L12	20.00	N05°56'16"W
L13	15.01	N04°03'44"E
L14	15.01	N04°12'56"W
L15	23.01	N05°56'16"E
L16	15.00	S05°56'16"E
L17	15.00	N04°03'44"E
L18	23.00	N04°03'44"E
L19	20.00	N05°56'16"W
L20	23.53	S03°10'50"E
L21	20.90	N05°56'16"W
L22	20.00	N04°03'44"E
L23	48.00	N04°03'44"E

CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD	BEG	END
C1	25.00	39.27	90°00'00"	25.00	35.36	S05°56'16"E	35.36
C2	25.00	39.27	90°00'00"	25.00	35.36	N03°10'50"E	35.36
C3	25.00	39.27	90°00'00"	25.00	35.36	N03°10'50"E	35.36
C4	25.00	39.27	90°00'00"	25.00	35.36	S05°56'16"E	35.36
C5	25.00	39.26	90°01'36"	25.01	35.35	S04°03'44"E	35.35
C6	25.00	39.26	89°58'24"	24.99	34.49	S04°03'44"E	34.49
C7	25.00	39.07	87°14'35"	23.83	30.60	S05°56'16"E	30.60
C8	424.19	20.60	2°46'58"	10.30	19.19	N05°56'16"E	19.19
C9	366.19	17.78	2°46'57"	8.89	17.78	N05°56'16"E	17.78
C10	25.00	40.02	91°43'20"	25.76	35.88	N05°56'16"E	35.88

ACS MONUMENT
"7"-K9"
Y=1482842.09
X=355815.77
G=0.99967720
Z=0.001656
CENTRAL PLANE
ELEVATION=5137.363

SCANNED BY
MESA REPRO

ABBREVIATIONS

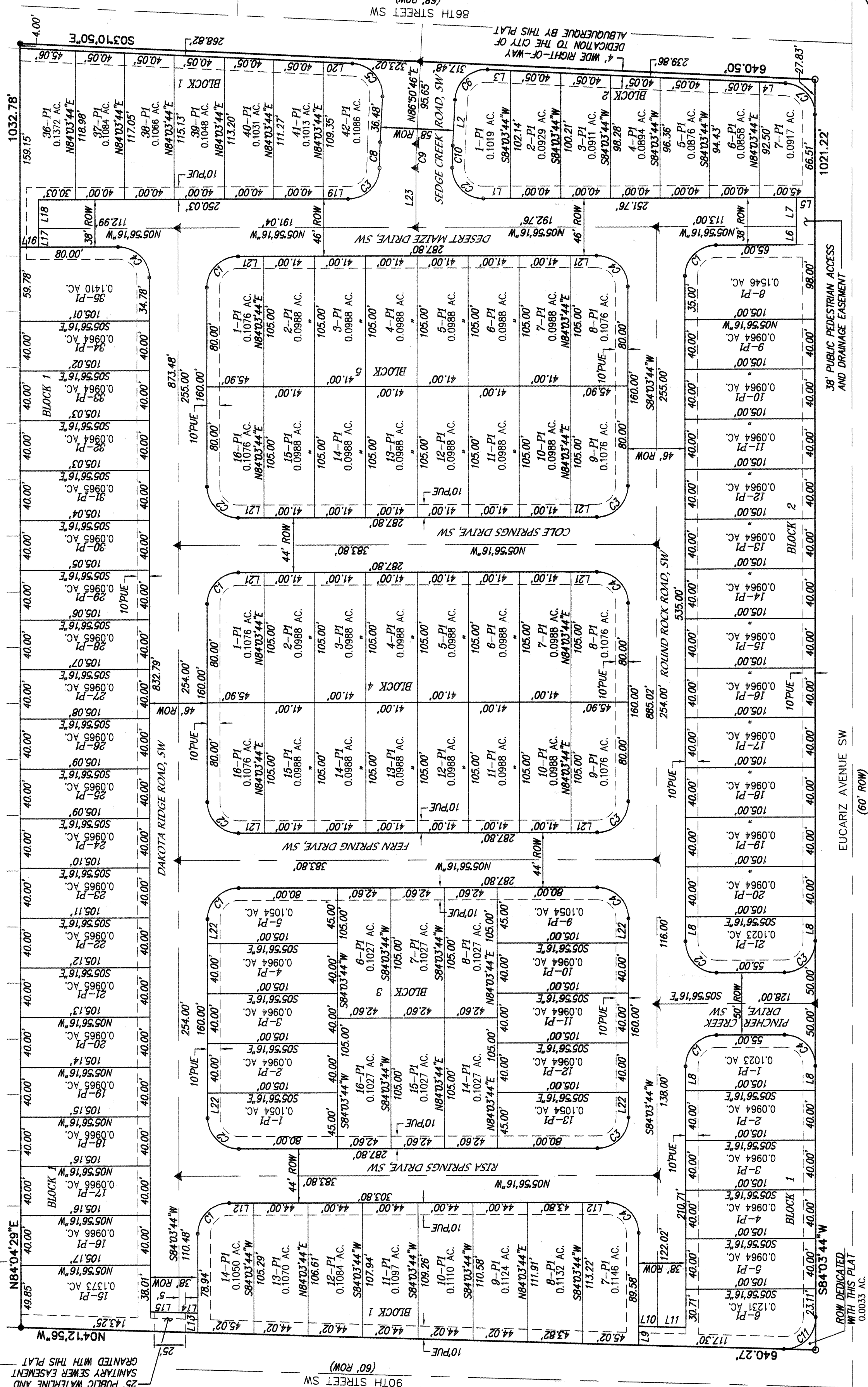
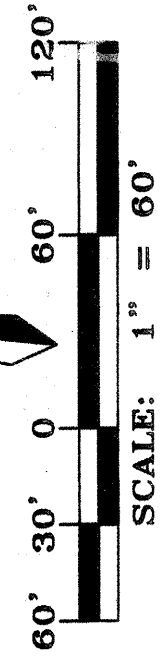
10' PUE = PUBLIC UTILITY EASEMENTS
GRANTED WITH THIS PLAT
ROW = RIGHT-OF-WAY

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

NOTE: CENTERLINE (IN LIEU OF P/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
INCH (4") ALUMINUM ALLOY CAP STAMPED "CITY OF ALBUQUERQUE",
"CENTERLINE MONUMENT", "DO NOT DISTURB", "PLS # 7719".

PLAT FOR
DESERT PINE UNIT 4
SUBDIVISION

WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTIONS 27
TOWNSHIP 11 NORTH, RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
MAY, 2003



ALDRICH LAND
SURVEYING

P.O. BOX 30701, ALBU., N.M. 87190
505-884-1990

SEE SHEET 2 FOR CURVE AND LINE DATA

Drawn: RICHARD
Date: 05/15/03
Checked: ALS
Job: A02108
Scale: 1"=60'

Sheet 3 of 3

LOCATION MAP

ZONE ATLAS L-9-Z

SCALE: NONE

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION SHALL GOVERN ALL WORK.
3. 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.
4. 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 METTING THE SOIL TO KEEP IT FROM BLOWING.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. A PERIMETER CMU WALL WILL BE CONSTRUCTED AROUND THE PROJECT SITE. INTERIOR PROPERTY BOUNDARIES WILL BE SEPARATED BY WALLS (SIDEYARDS AND BACK YARDS).

	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
	EXISTING SPOT ELEVATION
	EXISTING CONCRETE CURB
	EXISTING SIGN
	EXISTING WOOD FENCE
	EXISTING CHAIN LINK FENCE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING FIRE HYDRANT
	EXISTING ELECTRIC TRANSFORMER
	EXISTING TELEPHONE BOX
	NEW MOUNTABLE CURB & GUTTER
	NEW STANDARD CURB & GUTTER
	NEW SIDEWALK
	NEW RIGHT-OF-WAY
	NEW CENTERLINE
	NEW LOT LINES
	NEW EASEMENTS
	NEW GARDEN WALL
	NEW RETAINING WALL
	NEW SPOT ELEVATIONS
	NEW TOP OF WALL ELEVATIONS
	NEW TOP OF GRADE ELEVATIONS
	NEW TOP OF SIDEWALK ELEVATIONS
	NEW FLOW
	NEW SLOPE
	NEW HIGH POINT

[illegible]

	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT												
<i>FOR INFORMATION ONLY</i>													
TITLE:	DESERT PINE - UNIT 4 GRADING AND DRAINAGE PLAN												
DESIGN REVIEW COMMITTEE 	CITY ENGINEER APPROVAL 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="5" style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">LAST DESIGN UPDATE</td> <td style="text-align: center;">MO./DAY/YR.</td> <td style="text-align: center;">MO./DAY/YR.</td> </tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> <tr><td style="height: 30px;"></td><td></td></tr> </table>	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.								
LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.											
CITY PROJECT NO.	ZONE MAP NO.	SHEET											
7133 - 81	L-9-Z	4											
		OF											
		24											

NOTES: 96.7

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER BOUNDARY. (PART BY DEVELOPER, PART BY BUILDER,
2. 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.
3. 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

NTS ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT
LOTS GREATER THAN 2.8' WILL REQUIRE RETAINING WALLS

EROSION CONTROL NOTES

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

TYPICAL LOT LAYOUT PLAN

N.T.S.

NEW INLET SUMMARY

- ① NEW DBL TYPE "A" INLET
 $T_0 = 12.65$
 $INV = 06.95$
 - ② NEW SQL TYPE "A" INLET
 $T_0 = 15.58$
 $INV(E) = 06.81$
 $INV(S) = 06.71$
 - ③ NEW DBL TYPE "C" INLET
 $T_0 = 11.82$
 $INV(N) = 05.57$
 $INV(S) = 05.52$
 - ④ NEW DBL TYPE "C" INLET
 $T_0 = 11.54$
 $INV(N) = 05.37$
 $INV(S) = 05.32$
 - ⑤ NEW DBL TYPE "C" INLET
 $T_0 = 11.36$
 $INV(N) = 05.17$
 $INV(S) = 05.12$
 - ⑥ NEW DBL TYPE "C" INLET
 $T_0 = 11.20$
 $INV(N) = 04.97$
 $INV(S) = 04.92$
 - ⑦ NEW DBL TYPE "C" INLET
 $T_0 = 10.94$
 $INV(W) = 04.65$
 $INV(E) = 04.60$
 - ⑧ NEW DBL TYPE "A" INLET
 $T_0 = 10.04$
 $INV = 10.04$

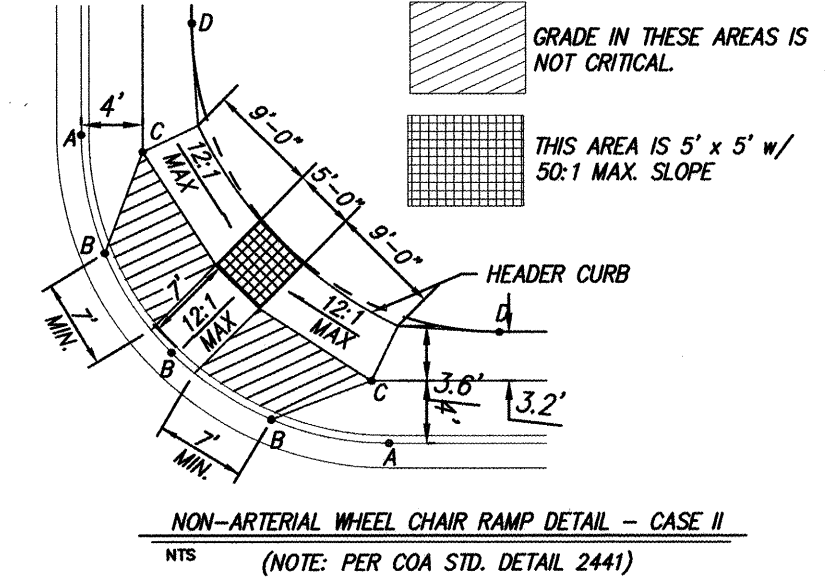
LEGEND

- EXISTING CURB & GUTTER
- EXISTING TOP OF CURB
- EXISTING FLOWLINE
- NEW RETAINING WALL
- NEW GARDENWALL
- NEW PUBLIC EASEMENTS
- NEW STANDARD CURB & GUTTER
- NEW MOUNTABLE CURB & GUTTER
- NEW PROPERTY LINE
- NEW LOT LINE
- NEW RIGHT-OF-WAY
- NEW SIDEWALK THIS PROJECT
- NEW STREET LIGHTS

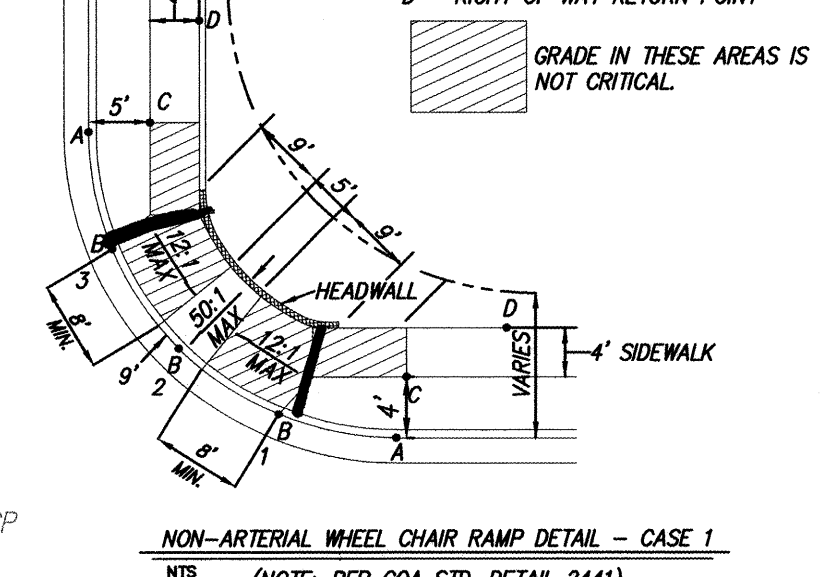
CONSTRUCTION NOTES

- ALL SIDEWALKS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2430.
- ALL 6" VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
- ALL HANDICAP RAMPS ARE PER DETAILS ON THIS SHEET, OR COA DETAIL 2426.
- TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB SHALL BE 10 FEET.
- TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET PER C.O.A. STANDARD DRAWING 2418.
- TRANSITION FROM MOUNTABLE CURB TO STANDARD CURB AT INTERSECTIONS SHALL OCCUR THROUGH THE H.C. RAMP PER C.O.A. STANDARD DRAWING 2418.
- SOIL NOT HAVING THE MINIMUM R-VALUE OF 50 FOR STREETS SHALL BE REMOVED TO A DEPTH OF 2 FEET AND REPLACED BY THE CONTRACTOR WITH SUITABLE MATERIAL OR A PAVEMENT SECTION SHALL BE DESIGNED BY THE CONSULTANT ACCORDING TO THE EXISTING R-VALUE PER C.O.A. STANDARD SPECIFICATIONS.

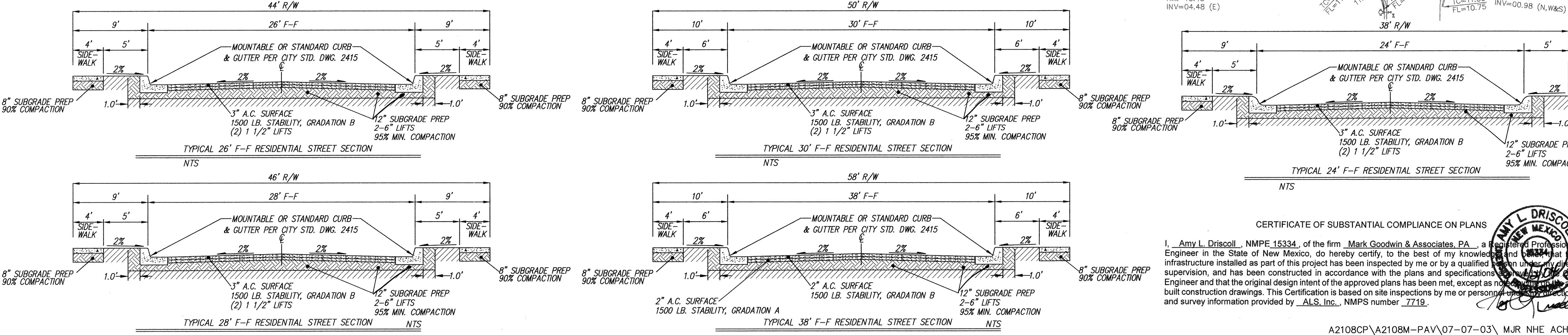
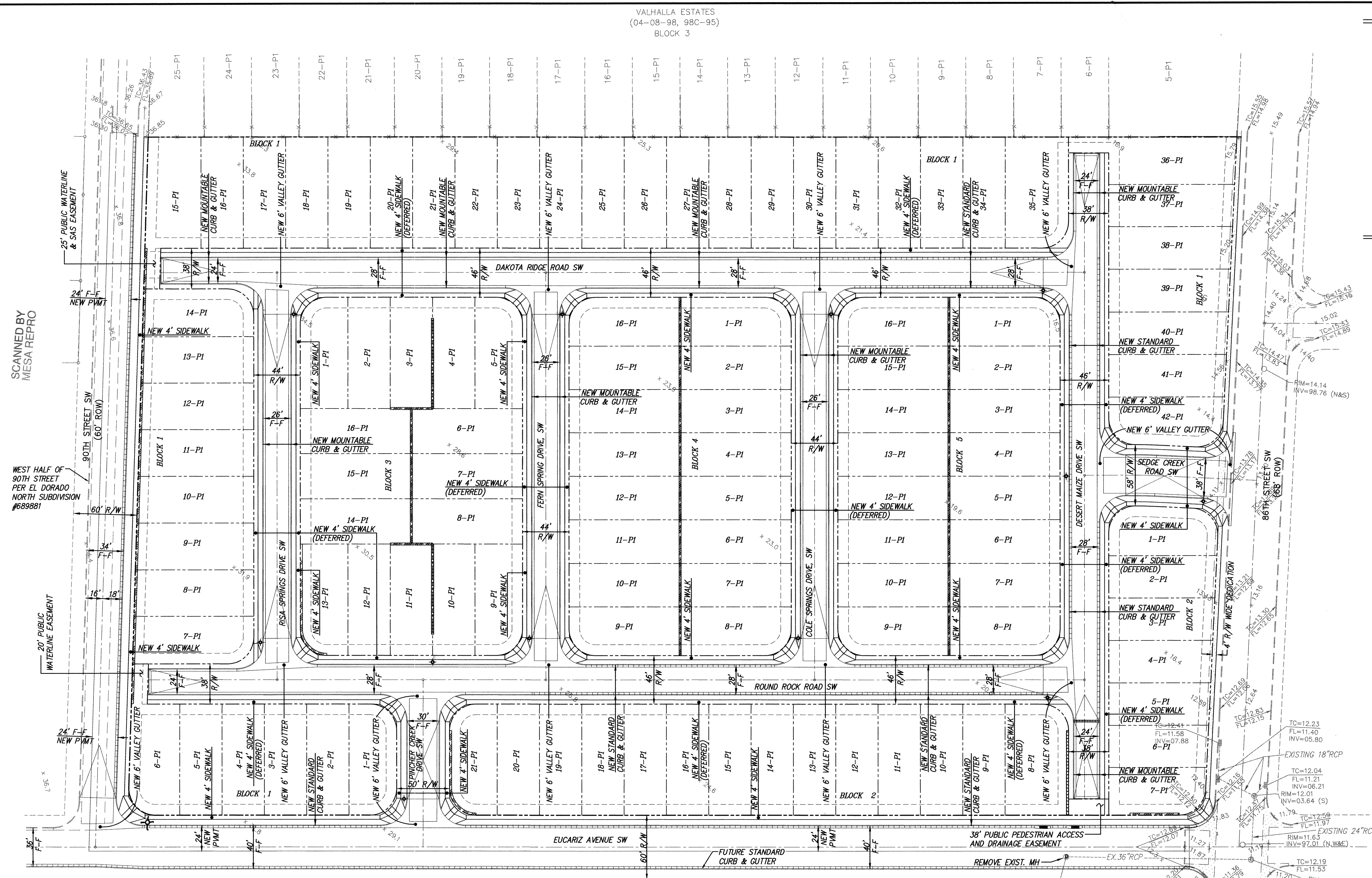
- A = CURB RETURN POINT
- B = QUARTER POINTS
- C = 5' BEHIND FACE OF CURB RETURN
- D = RIGHT OF WAY RETURN POINT



- A = CURB RETURN POINT
- B = QUARTER POINTS
- C = 5' BEHIND FACE OF CURB RETURN
- D = RIGHT OF WAY RETURN POINT



SCALE: 1" = 50'



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 submitted to me as Engineer and that the original design intent of the approved plans has been met, except as noted on the plans and built construction drawings. This Certification is based on site inspections by me or persons under my direction and survey information provided by ALS, Inc., NMPS number 7719.

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: **DESERT PINE - UNIT 4 MASTER PAVING PLAN**

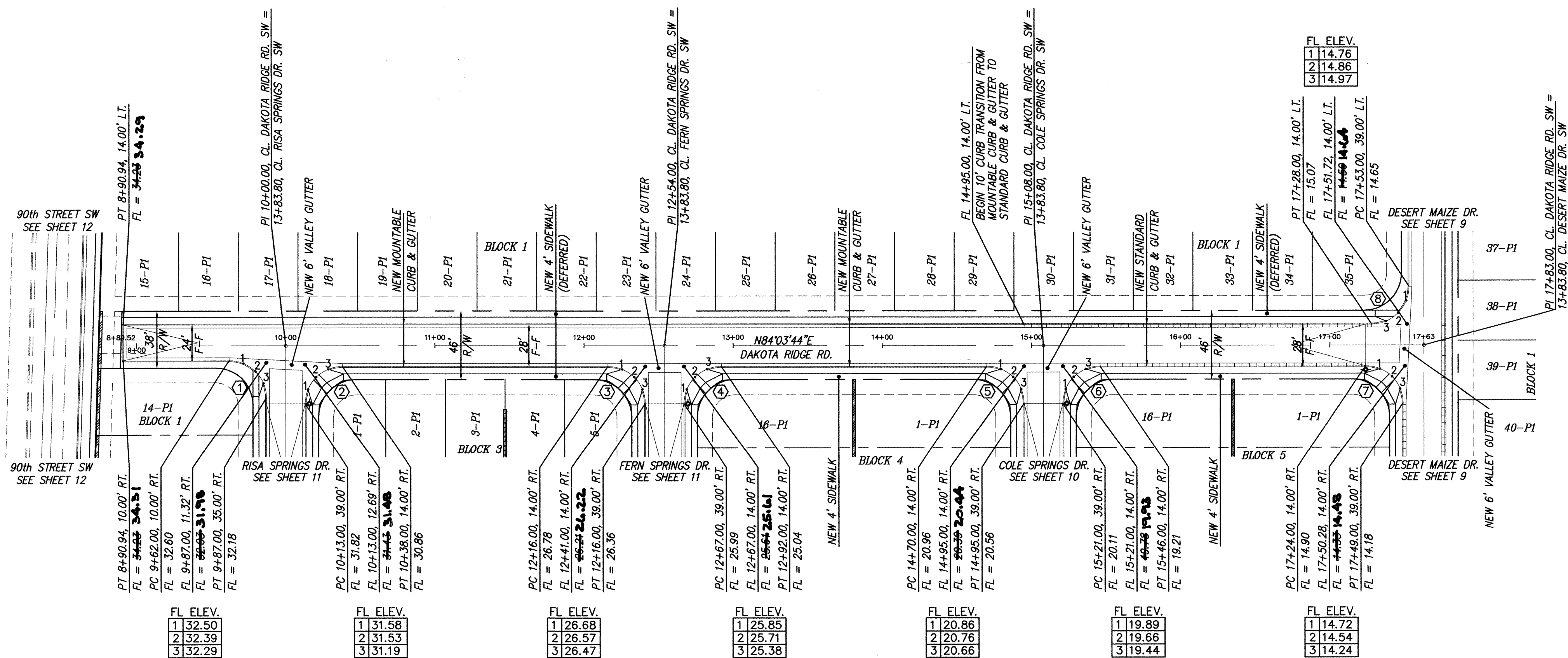
DESIGN REVIEW COMMITTEE: JUL 16 2003
CITY ENGINEER: AUG - 5 2003

DESIGNED BY: ALD
DRAWN BY: MJR
CHECKED BY: DMG

DATE: 11/02
DATE: 11/02
DATE: 11/02

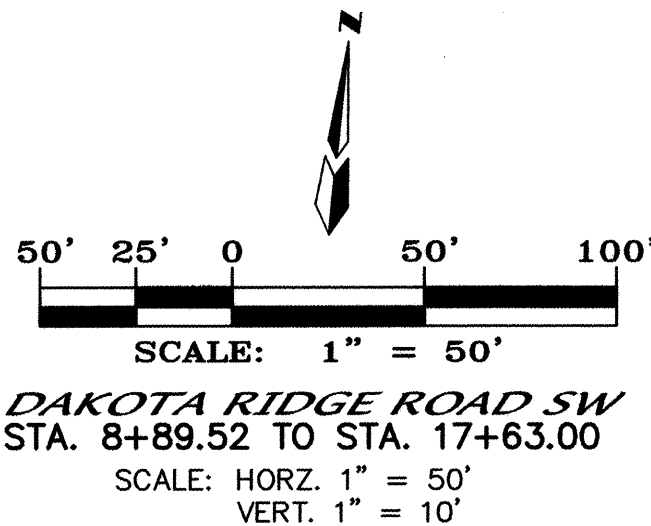
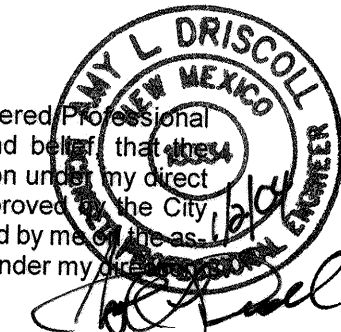
CITY PROJECT NO. **7133.81**
ZONE MAP NO. **L-9-Z**
SHEET **5** OF **24**

SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 built construction drawings. This Certification is based on site inspections by me or personnel under my supervision and survey information provided by ALS, Inc., NMPS number 7719.



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

- | | |
|--|--|
| 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 $\Delta = 90^{\circ}00'00''$
$R = 25.00'$
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$T = 25.00'$ | 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 $\Delta = 90^{\circ}00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ |
| ⑦ $\Delta = 90^{\circ}00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ | ⑧ $\Delta = 90^{\circ}00'00''$
$R = 25.00'$
$L = 39.27'$
$T = 25.00'$ |

SURVEY INFORMATION

FIELD NOTES

ENGINEER'S SEAL

NO. BY DATE

REVISIONS

NO. DATE

DESIGN

DATE

DESIGNED BY

DATE

DRAWN BY

DATE

AS BUILT INFORMATION

CONTRACTOR

BENCH MARKS

ACS BRASS CAP STAMPED "7-K9, 1989". THE STATION IS 530 FEET FROM THE CENTERLINE OF 90th STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE.

GEOGRAPHIC POSITION

(NAD 1927), IN FEET.

NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE).

X = 355,815.71, Y = 1,482,842.09

ELEVATION

= 5137.363, NGVD29, IN FEET.

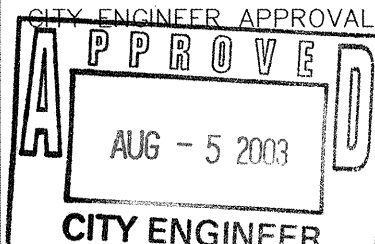
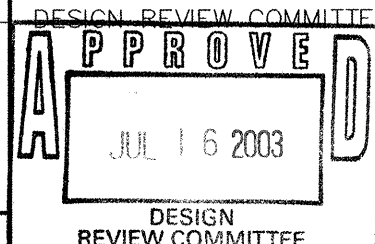
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT



DESERT PINE - UNIT 4
DAKOTA RIDGE RD. S.W.
PAVING IMPROVEMENTS



CITY PROJECT NO.

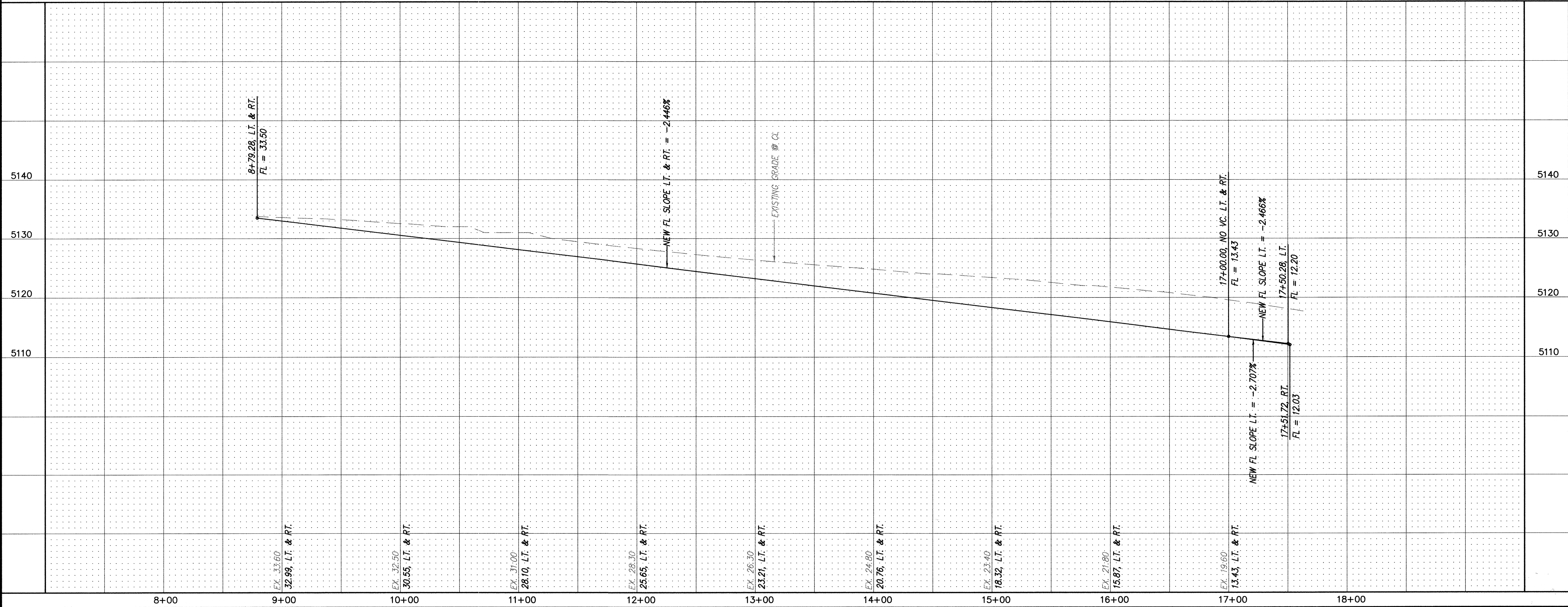
ZONE MAP NO.

SHEET

OF

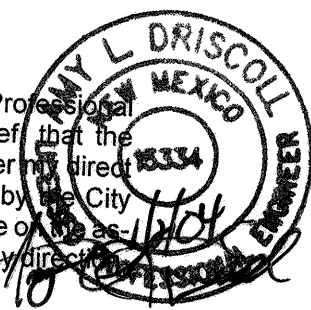
F:\A02\005\A2108CP\DWG\A2108-PP7.dwg Mon Jul 07 10:25:47 2003 D. MARK GOODWIN & ASSOCIATES, PLTIED BY: ACH

SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.

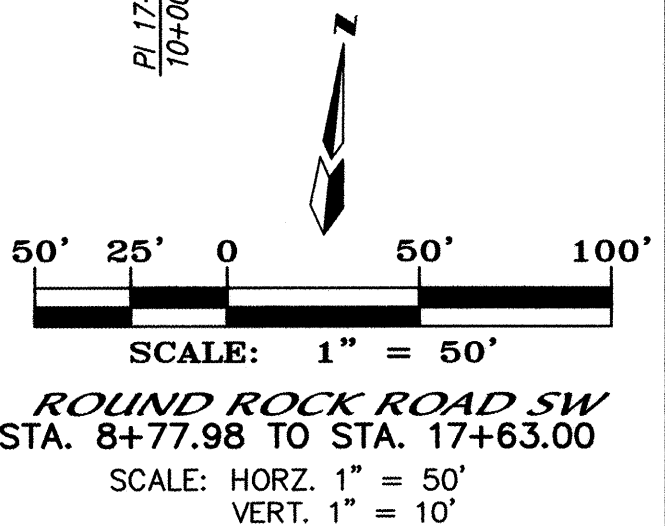


NOTES

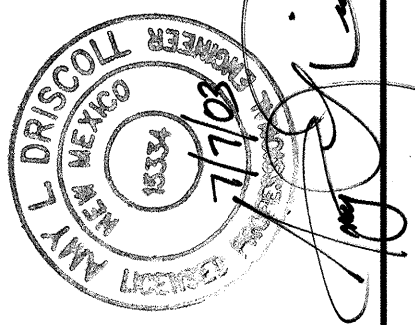
1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

- | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| ① Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ② Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ③ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ④ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑤ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑥ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑦ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑧ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑨ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' | ⑩ Δ = 90°00'00"
R = 25.00'
L = 39.27'
T = 25.00' |
|---|---|---|---|---|---|---|---|---|---|



ENGINEER'S SEAL



SURVEY INFORMATION

NO.	BY	DATE

BENCH MARKS

ACS BRASS CAP STAMPED "7+49, 1988" THE STATION IS 530 FEET FROM THE CENTERLINE OF 90th STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE	
GEOGRAPHIC POSITION (NAD 1927), IN FEET	
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE)	
X = 355,815.77; Y = 1,462,842.09	
ELEVATION = 5137.563, NGVD29, IN FEET	

AS BUILT INFORMATION

CONTRACTOR	FRANKLIN	DATE	03
WORK STAKED BY	ALS	DATE	03
FIELD CHECKED BY	ALS	DATE	03
DESIGNED BY	ALS	DATE	03
DRAWN BY	ALS	DATE	03
CHECKED BY	ALS	DATE	03
RECORDED BY	ALS	DATE	03
NO.			

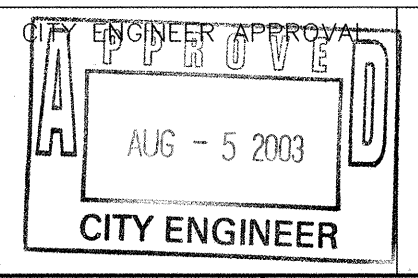
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

DESERT PINE - UNIT 4
ROUND ROCK RD. S.W.
PAVING IMPROVEMENTS



LAST DESIGN UPDATE

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

CITY PROJECT NO.

7133.81

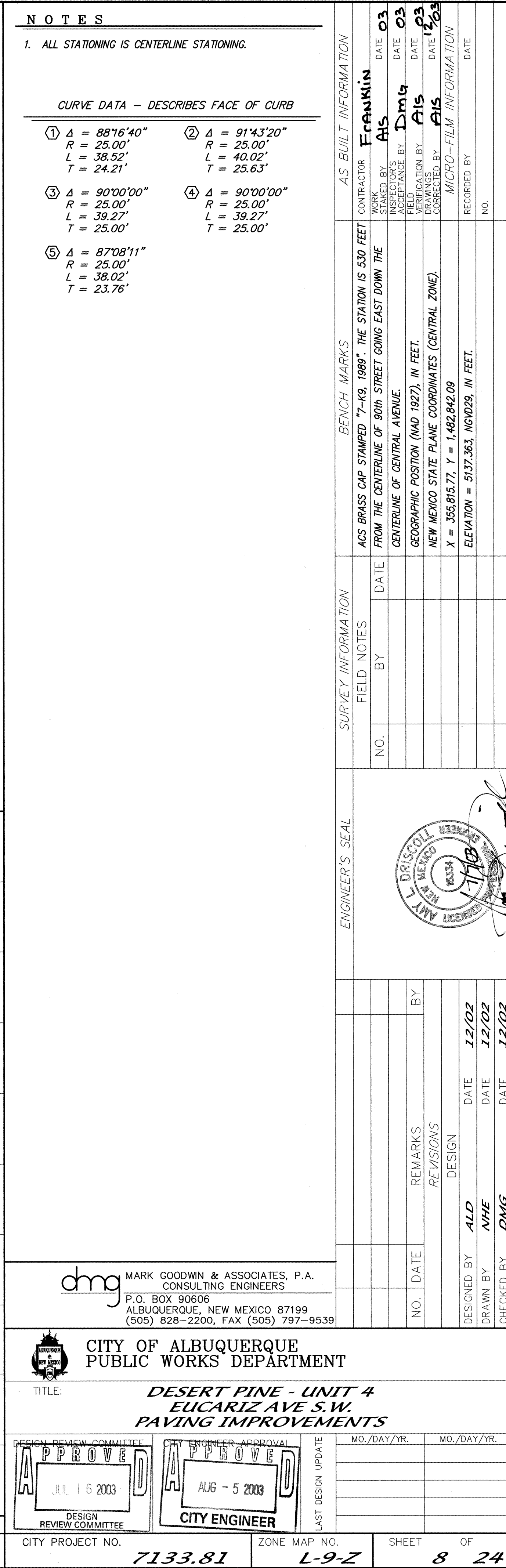
ZONE MAP NO.

L-9-Z

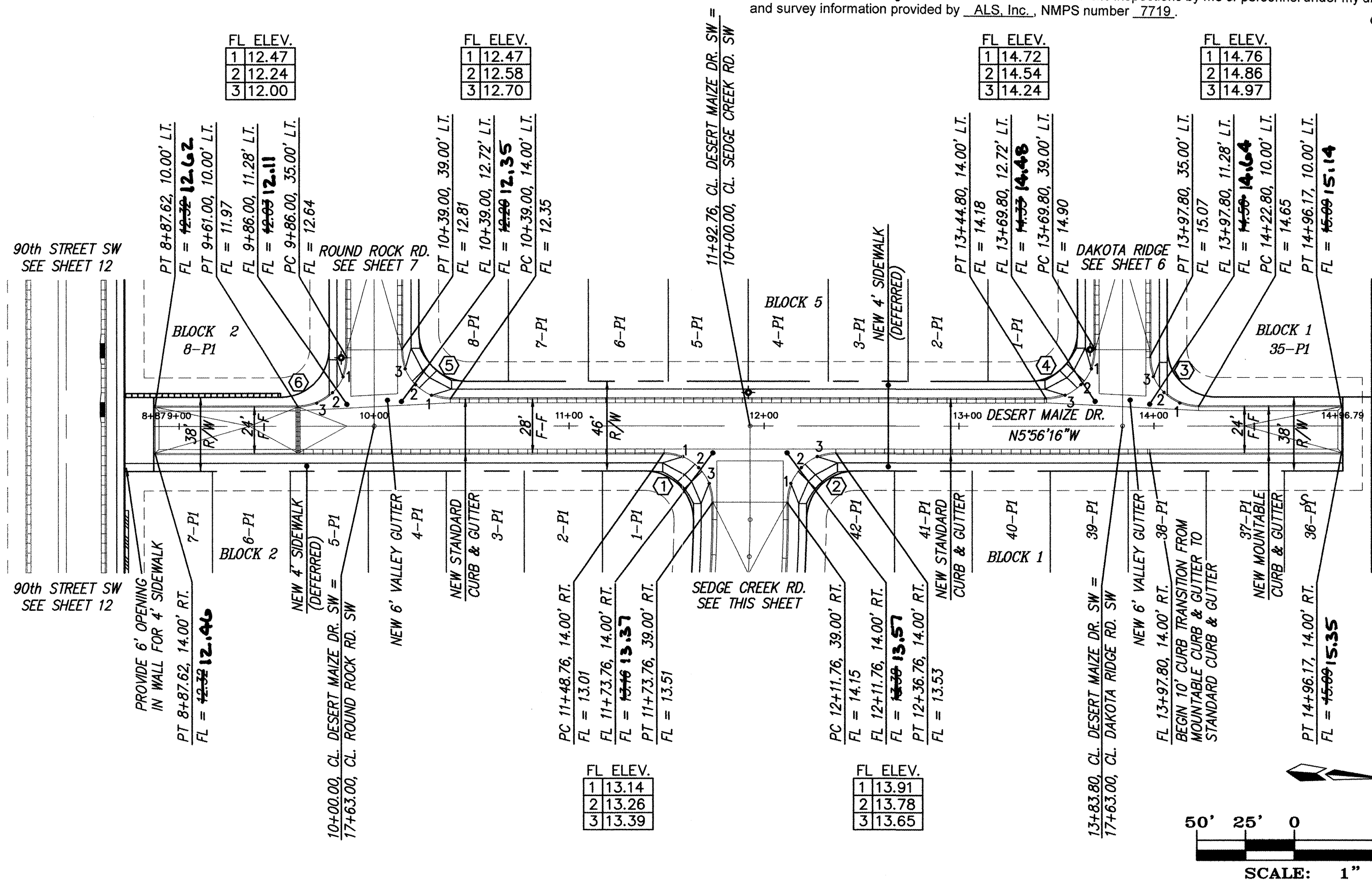
SHEET OF

7 24

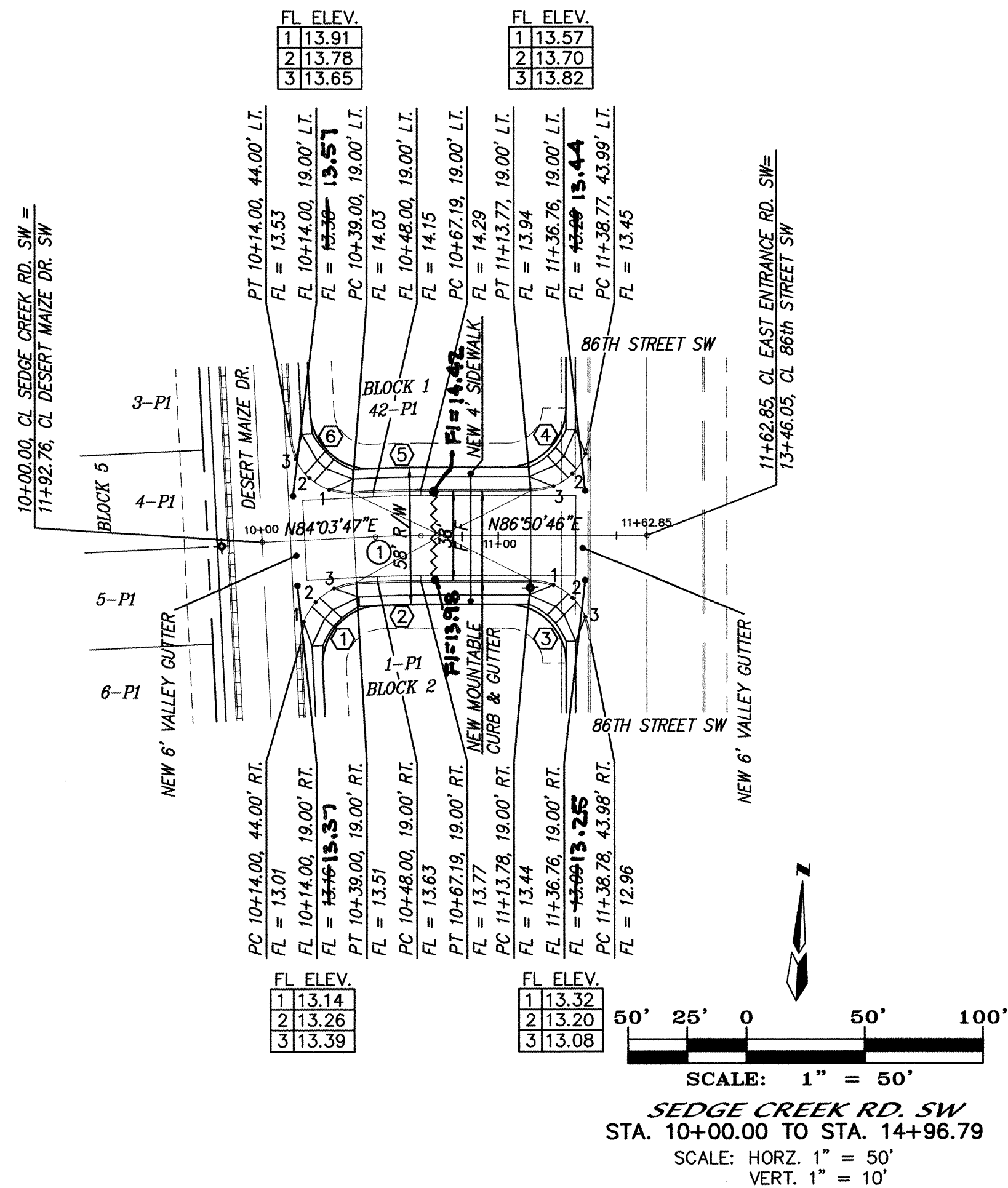
A2108CP/DWG/A2108-PP7 07-07-03 NHE ACH



I, Amly L. Driscoll, 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 me as a Professional Engineer and that the original design intent of the approved plans has been met, except as noted by me on the approved construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.



DESERT MAIZE DR. SW
STA. 8+87.00 TO STA. 14+96.79
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



1. ALL STATIONING IS CENTERLINE STATIONING.

DESERT MAIZE DR.
CURVE DATA - DESCRIBES FACE OF CURB

① $\Delta = 90^{\circ}00'03''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

② $\Delta = 89^{\circ}59'57''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

③ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

④ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

⑤ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

⑥ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

SEDGE CREEK RD.
CURVE DATA - DESCRIBES FACE OF CURB

① $\Delta = 90^{\circ}00'03''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

② $\Delta = 2^{\circ}46'58''$
 $R = 376.19'$
 $L = 18.27'$
 $T = 8.10'$

③ $\Delta = 89^{\circ}57'56''$
 $R = 25.00'$
 $L = 39.25'$
 $T = 24.82'$

④ $\Delta = 89^{\circ}59'04''$
 $R = 25.00'$
 $L = 39.26'$
 $T = 24.82'$

⑤ $\Delta = 2^{\circ}46'58''$
 $R = 414.19'$
 $L = 20.12'$
 $T = 8.91'$

⑥ $\Delta = 89^{\circ}59'57''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

CURVE DATA - DESCRIBES CENTERLINE

$$\begin{aligned} \textcircled{1} \quad \Delta &= 2^{\circ}46'58'' \\ R &= 395.19' \\ L &= 19.19' \\ T &= 8.50' \end{aligned}$$

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: **DESERT PINE - UNIT 4**
DESERT MAIZE DR. SW & SEDGE CREEK RD. SW
PAVING IMPROVEMENTS

DESIGN REVIEW COMMITTEE

A P P R O V E D

JUL 6 2003

DESIGN
REVIEW COMMITTEE

CITY ENGINEER APPROVAL
APPROVED
AUG - 5 2003
CITY ENGINEER

CITY PROJECT NO.

ZONE MAP NC

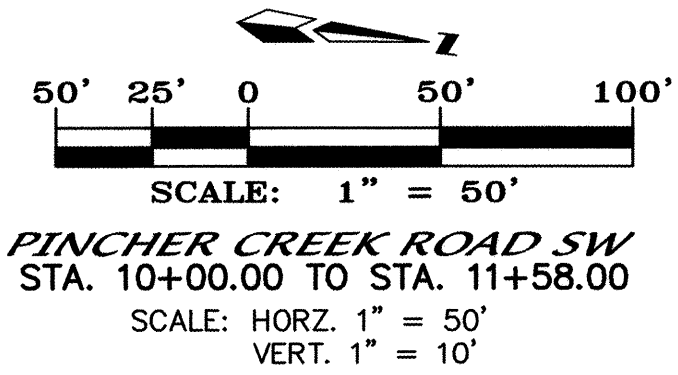
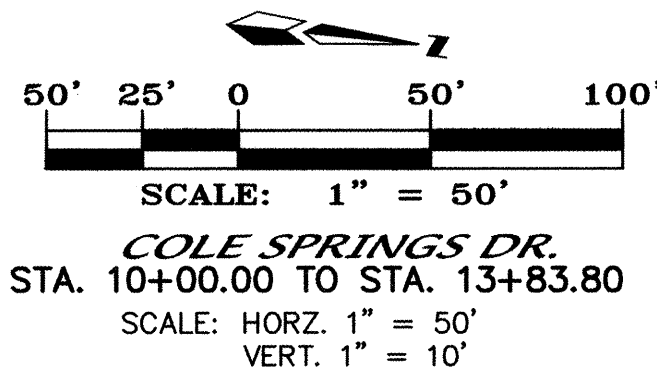
SHEET OF

A2108CP/DWG/A2108-PP5 07-07-03 NHE ACH

7133.81

MAP NO.
L-9-Z

OF
9 10



① $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

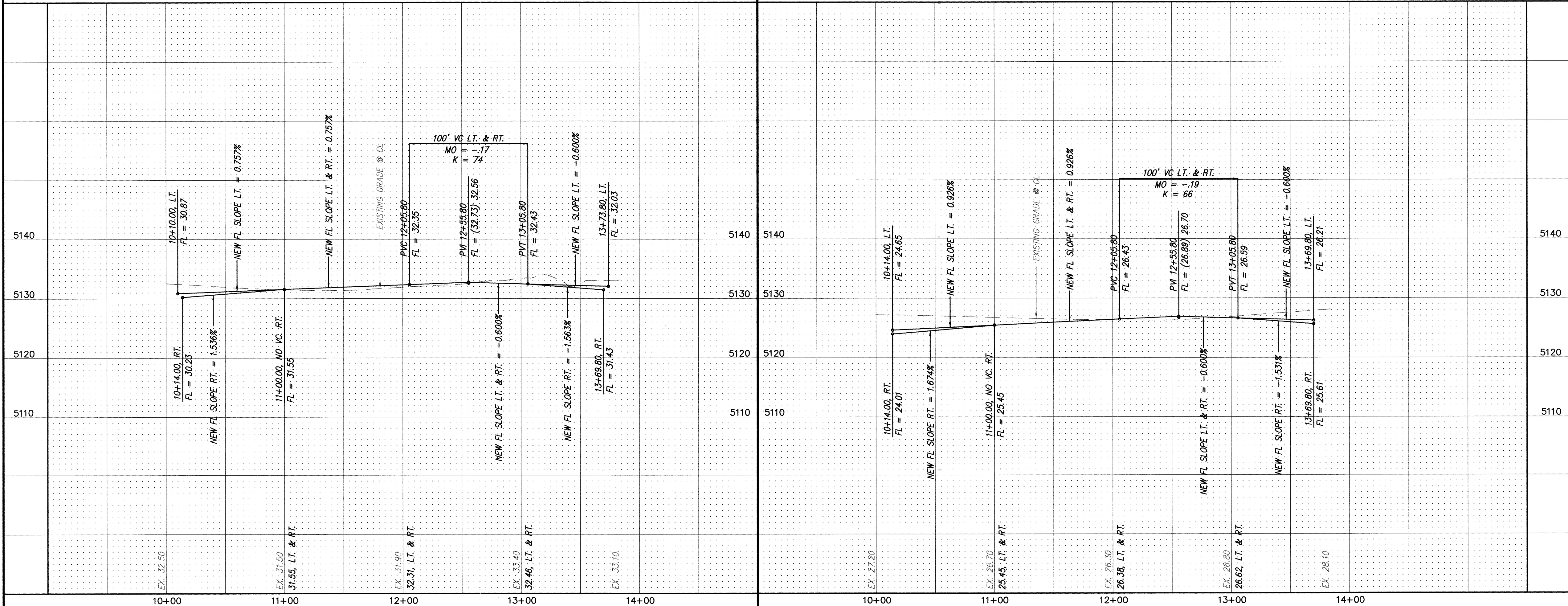
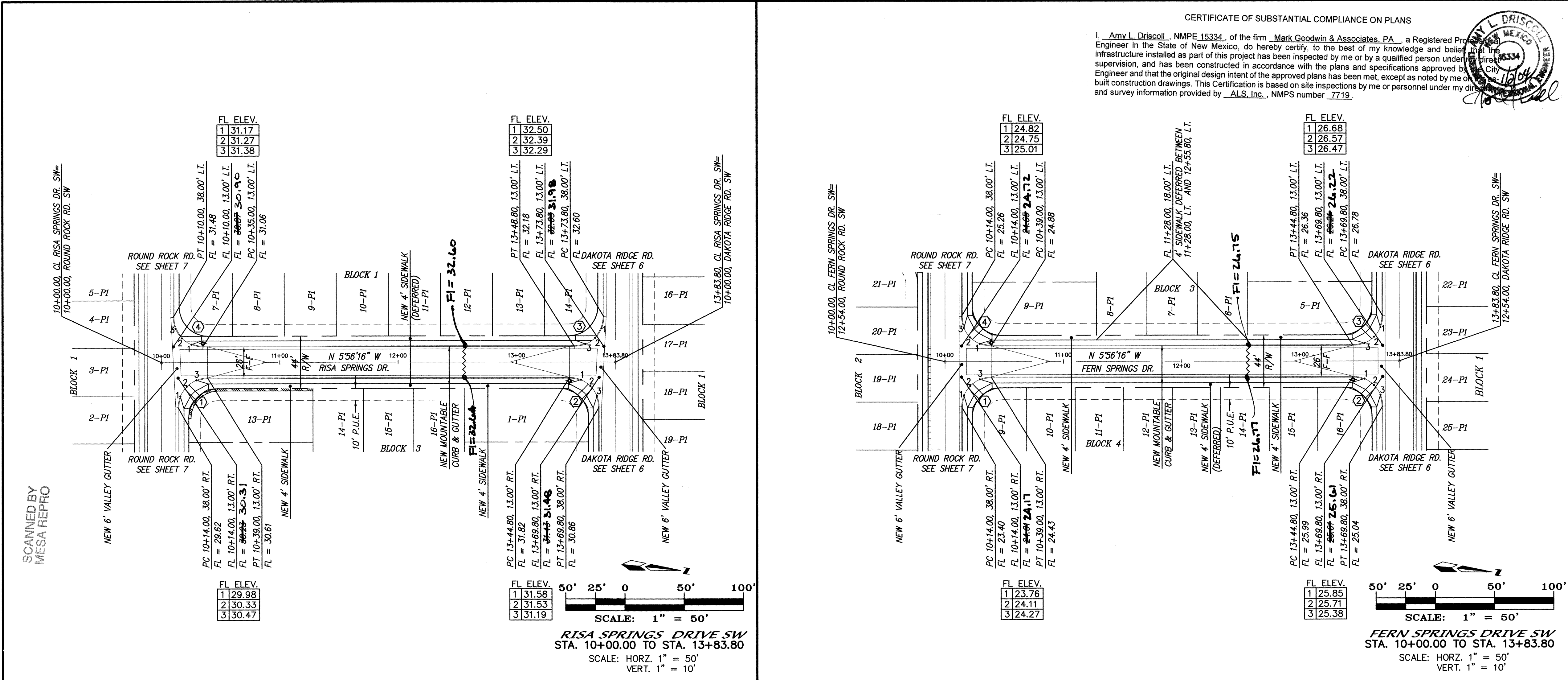
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 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

③ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

④ $\Delta = 90^{\circ}00'00''$
 $R = 25.00'$
 $L = 39.27'$
 $T = 25.00'$

CITY PROJECT NO. 7133.81	ZONE MAP NO. L-9-Z	SHEET OF 10 24
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SHEET OF
10 24



AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	WORK	DATE	DATE	NO.	BY	NO.	BY
FRANKLIN	AS	03	03				
STATIONED BY	DATE	DATE	DATE	NO.	BY	NO.	BY
AS	03	03	03				
FIELD	DATE	DATE	DATE	NO.	BY	NO.	BY
DMG	03	03	03				
DESIGNED BY	DATE	DATE	DATE	NO.	BY	NO.	BY
ALD	12/02	12/02	12/02				
DRAWN BY	DATE	DATE	DATE	NO.	BY	NO.	BY
NHE	12/02	12/02	12/02				
CHECKED BY	DATE	DATE	DATE	NO.	BY	NO.	BY
DMG	12/02	12/02	12/02				

DESIGN REVIEW COMMITTEE
JUL 16 2003

CITY ENGINEER
AUG - 5 2003

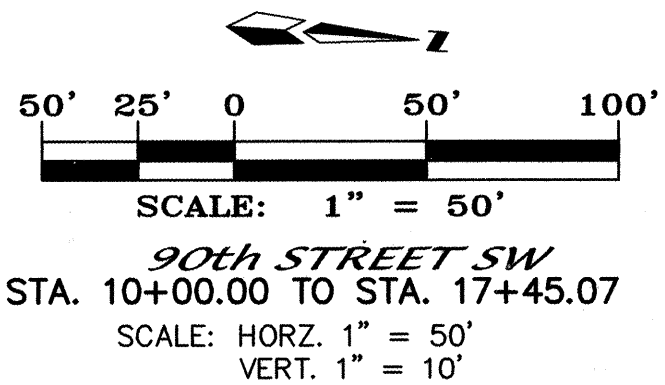
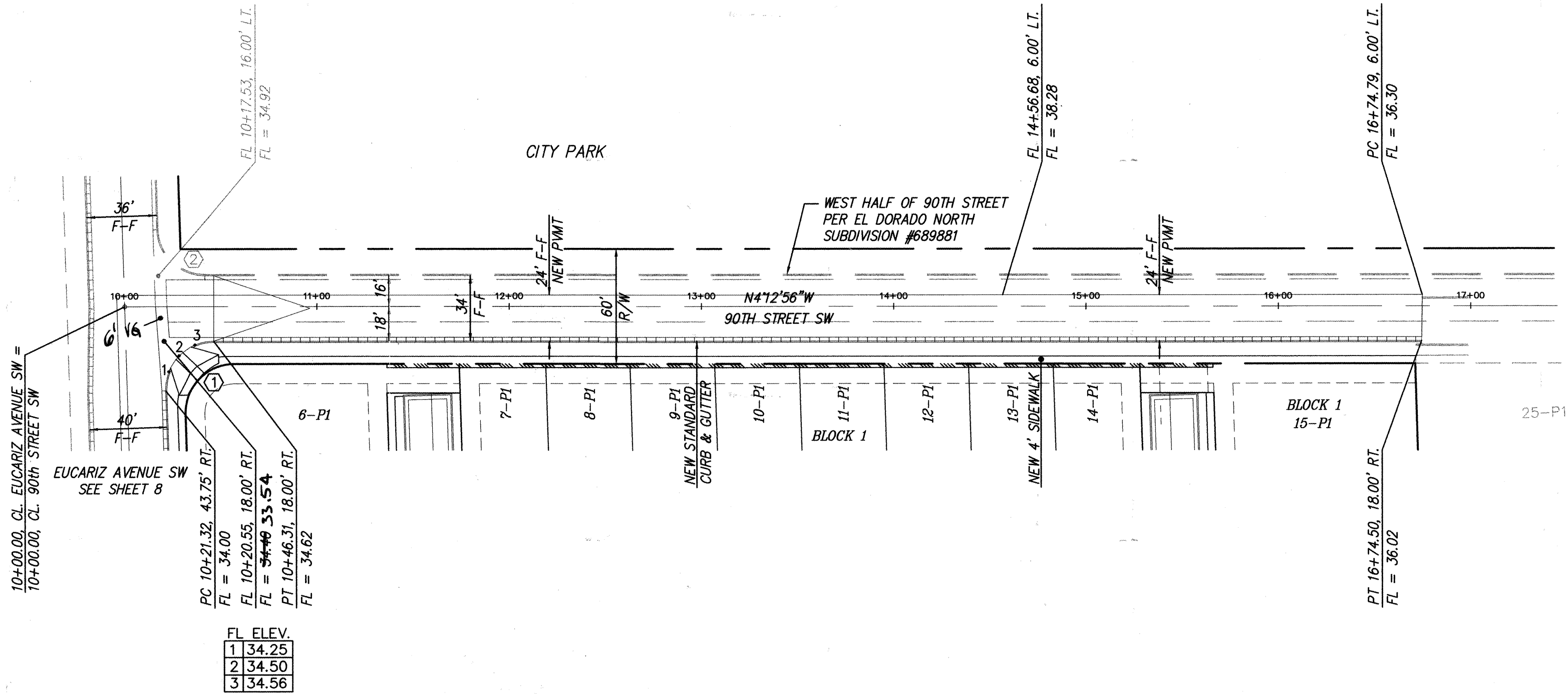
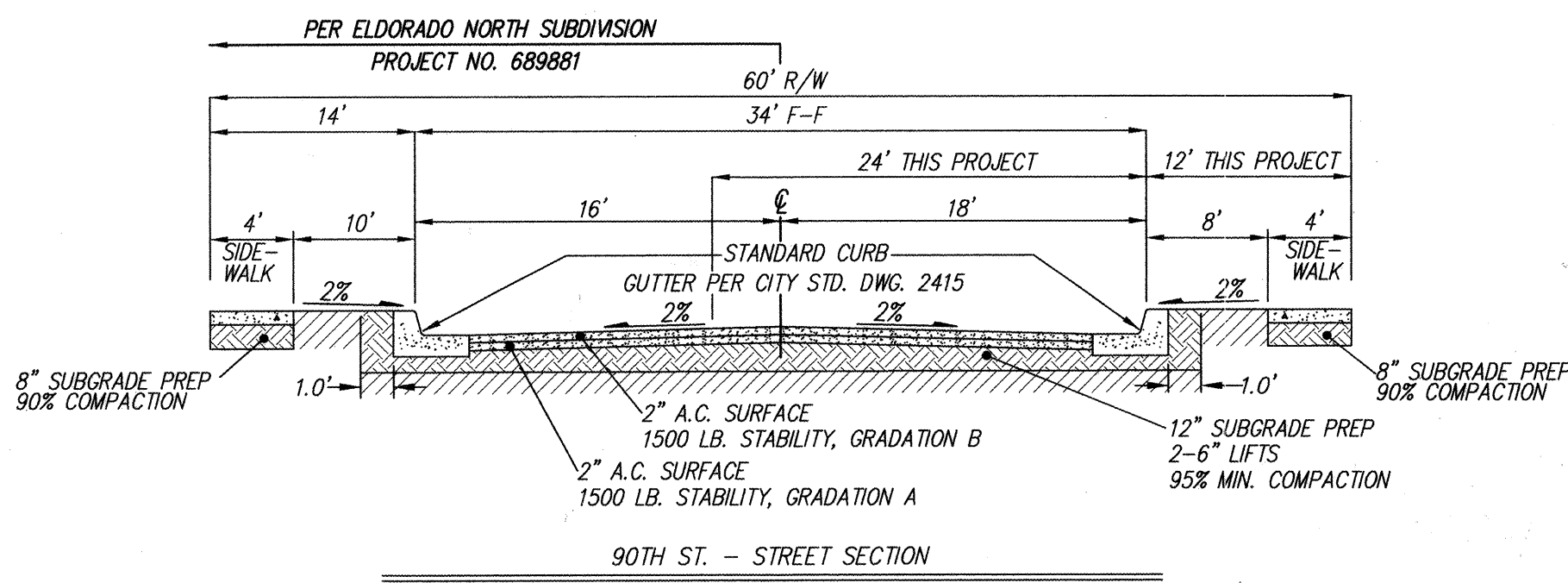
DESIGNED BY ALD **DATE** 12/02
DRAWN BY NHE **DATE** 12/02
CHECKED BY DMG **DATE** 12/02

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

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

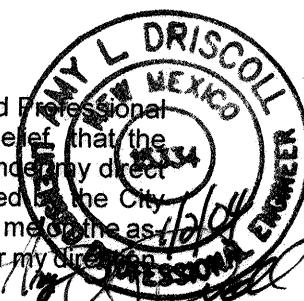
ZONE MAP NO. 7133.81 **SHEET** 11 **OF** 24

SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 modifications to the built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 1719.



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

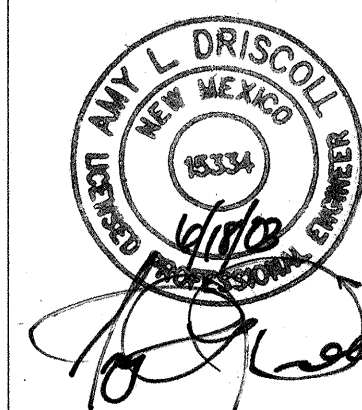
- ① $\Delta = 91^\circ 43' 20''$
 $R = 25.00'$
 $L = 40.02'$
 $T = 25.63'$
- ② $\Delta = 88^\circ 16' 40''$
 $R = 25.00'$
 $L = 38.52'$
 $T = 24.21'$

SURVEY INFORMATION

FIELD NOTES

NO. BY DATE

ENGINEER'S SEAL



BY

REMARKS

REVISIONS

DESIGN

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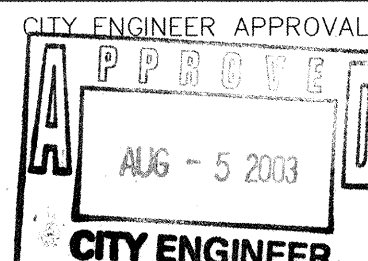
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

DESERT PINE - UNIT 4
90th STREET S.W.
PAVING IMPROVEMENTS



DATE

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DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

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DESIGN REVIEW COMMITTEE

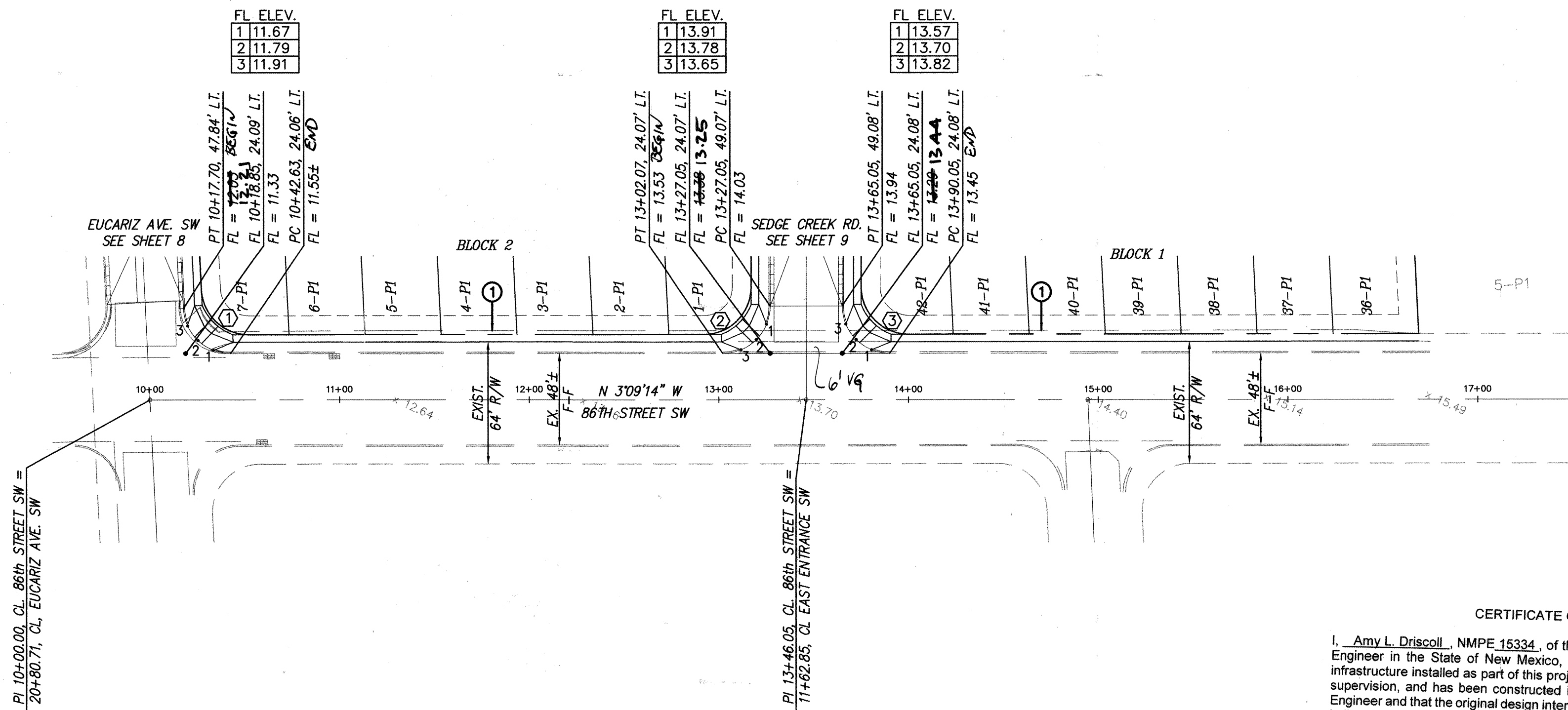
CITY ENGINEER

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DATE

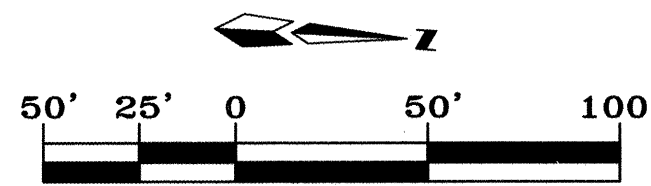
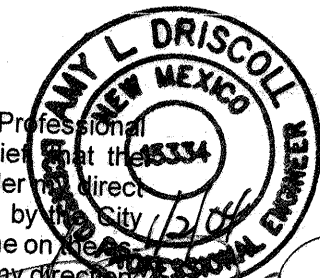
SCANNED BY
MESA RERRO

① 4' OF SIDEWALK SHALL BE IN RIGHT-OF-WAY.
TRIM REMAINING 2'.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 me as Engineer and that the original design intent of the approved plans has been met, except as noted by me on the 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.



SCALE: 1" = 50'
86th STREET SW
STA. 10+00.00 TO STA. 17+49.24
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

CURVE DATA - DESCRIBES FACE OF CURB

- ① $\Delta = 87^{\circ}08'11''$
 $R = 25.00'$
 $L = 38.02'$
 $T = 23.76'$
- ② $\Delta = 89^{\circ}57'56''$
 $R = 25.00'$
 $L = 39.25'$
 $T = 24.82'$
- ③ $\Delta = 89^{\circ}59'04''$
 $R = 25.00'$
 $L = 39.26'$
 $T = 24.62'$

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE	DATE	CONTRACTOR	DATE
				FRANKLIN	03
				WORK	03
				STAKED BY	03
				ACCEPTANCE BY	03
				FIELD	03
				GEOMETRIC POSITION (NAD 1927), IN FEET.	03
				NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE).	03
				X = 355,815.71 Y = 1,462,842.09	03
				ELEVATION = 5137.363, NGVD29, IN FEET.	03
				RECORDED BY	
				NO.	

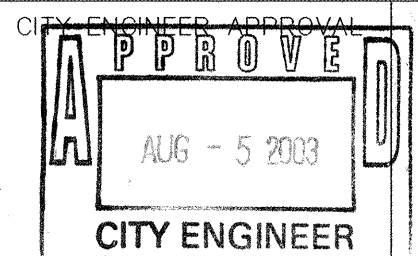


MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: DESERT PINE - UNIT 4
86TH STREET S.W.
PAVING IMPROVEMENTS



CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
7133.81	L-9-Z	13	24

SEE VALHALLA ESTATES,
COA PROJECT 584181,
SHEETS 19

TRACT 430

SCANNED BY
MESA REPRO

WEST HALF OF
90TH STREET & 12" WL
PER EL DORADO
NORTH SUBDIVISION
#689881

EX. 10" WL
EX. 16" WL
EX. 24" RCP
S = 2.60%

EX. INV = 28.80

SEE EL DORADO NORTH SUBDIVISION,
COA PROJECT 689881, SHEETS 11 & 12

VALVE SHUT-OFF PLAN

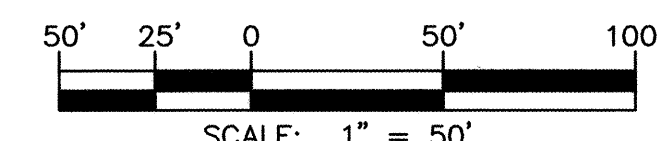
1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, SEVEN (7) DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES SEE THIS SHEET FOR VALVE NUMBERS & LOCATIONS.
3. FOR NON-PRESSURE CONNECTION AT 86TH ST. & EUCARIZ AVE., SHUT OFF VALVE #532.
4. FOR NORTHERN NON-PRESSURE CONNECTION IN 90TH ST. SHUT OFF VALVE #461.
6. FOR NON-LIVE CONNECTION AT 90TH ST. & EUCARIZ AVE., NO VALVES TO SHUT-OFF.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 me as the Engineer and that the original design intent of the approved plans has been met, except as noted by me on the built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.

LEGEND

- EXISTING CURB & GUTTER
- EXISTING TOP OF CURB
- EXISTING WATERLINE
- EXISTING SAS
- EXISTING STORMDRAIN
- NEW GARDEN WALL
- NEW RETAINING WALL
- NEW PUBLIC EASEMENTS
- NEW STANDARD CURB & GUTTER
- NEW MOUNTABLE CURB & GUTTER
- NEW PROPERTY LINE
- NEW LOT LINE
- NEW RIGHT-OF-WAY
- NEW SIDEWALK
- NEW STORM DRAIN
- NEW STORM DRAIN MH
- NEW WATERLINE
- NEW WATER METERS
- NEW TEE
- NEW VALVE
- NEW SAS
- NEW SAS MH
- NEW SAS SERVICES
- NEW LOT ADDRESS
- NEW STREET LIGHT



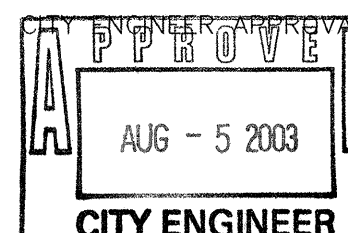
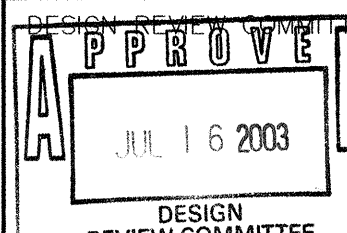
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

DESERT PINE - UNIT 4
MASTER UTILITY PLAN



CITY PROJECT NO.

7133.81

ZONE MAP NO.

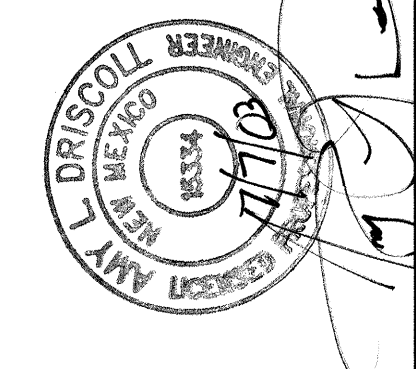
L-9-Z

SHEET

OF

14 24

ENGINEER'S SEAL



SURVEY INFORMATION

NO.	DATE	BY

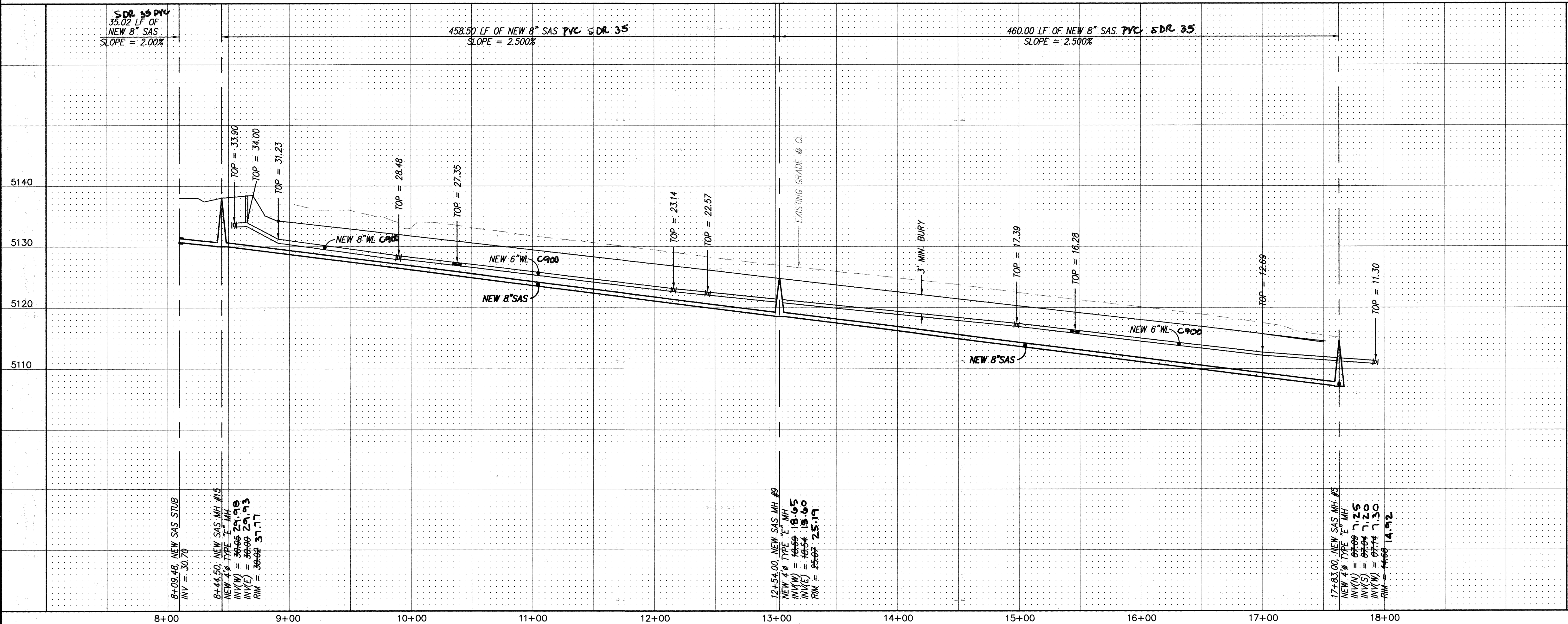
BENCH MARKS

ACS BRASS CAP STAMPED "7-49, 1988". THE STATION IS 530 FEET FROM THE CENTERLINE OF 90TH STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE.
GEOGRAPHIC POSITION (NAD 1983), IN FEET:
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE).
X = 355,815.71, Y = 1,482,842.09
ELEVATION = 5137.363, NGVD29, IN FEET.

AS BUILT INFORMATION

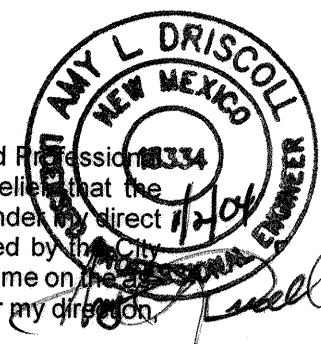
CONTRACTOR	DATE
FRANKLIN	03
WORK	DATE
STAKED BY	03
ACCEPTED BY	03
FIELD	DATE
COLLECTED BY	03
DRAWING BY	03
CORRECTED BY	03
RECORDED BY	03
NO.	

SCANNED BY
MESA REPRO



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 me as the Engineer and that the original design intent of the approved plans has been met, except as noted by me on the drawings. This Certification is based on site inspections by me or personnel under my direct supervision, and survey information provided by ALS, Inc., NMPS number 7719.



SCALE: 1" = 50'
DAKOTA RIDGE ROAD SW
STA. 8+89.52 TO STA. 17+63.00
SCALE: HORIZ. 1" = 50'
VERT. 1" = 10'

NOTES

- ALL STATIONING IS CENTERLINE STATIONING.
- SEE GATE VALVE BOX DETAIL ON SHEET 22.

SANITARY SEWER SERVICES

BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	15	9+18.22	28.60'	33.00'
1	16	9+38.22	28.15'	33.00'
1	17	9+78.22	27.23'	33.00'
1	18	10+18.22	26.31'	33.00'
1	19	10+58.22	25.40'	33.00'
1	20	10+98.22	24.48'	33.00'
1	21	11+38.22	23.56'	33.00'
1	22	11+78.22	22.65'	33.00'
1	23	12+18.22	21.73'	33.00'
1	24	12+58.22	20.81'	33.00'
1	25	12+98.22	19.90'	33.00'
1	26	13+38.22	18.98'	33.00'
1	27	13+78.22	18.06'	33.00'
1	28	14+18.22	17.15'	33.00'
1	29	14+58.22	16.23'	33.00'
1	30	14+98.22	15.31'	33.00'
1	31	15+38.22	14.40'	33.00'
1	32	15+78.22	13.48'	33.00'
1	33	16+18.22	12.56'	33.00'
1	34	16+58.22	11.65'	33.00'
1	35	16+98.22	10.73'	33.00'
3	1	10+47.00	25.65'	33.00'
3	2	10+77.00	24.97'	33.00'
3	3	11+17.00	24.05'	33.00'
3	4	11+57.00	23.13'	33.00'
3	5	11+97.00	22.22'	33.00'

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

PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
8"	22'	9'	4'	2'	60'
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'	-

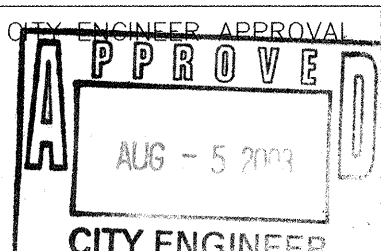
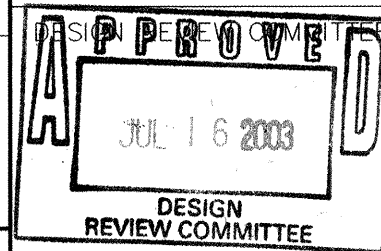
RESTRAINED JOINT LENGTH FOR TEES (FT.)

PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
8"x8"x6"	7'	5'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 30606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: DESERT PINE - UNIT 4
DAKOTA RIDGE RD. S.W.
UTILITY IMPROVEMENTS

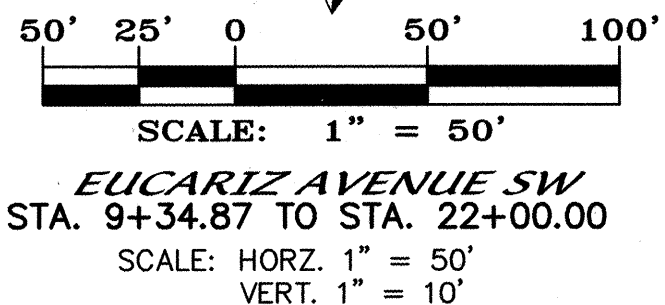
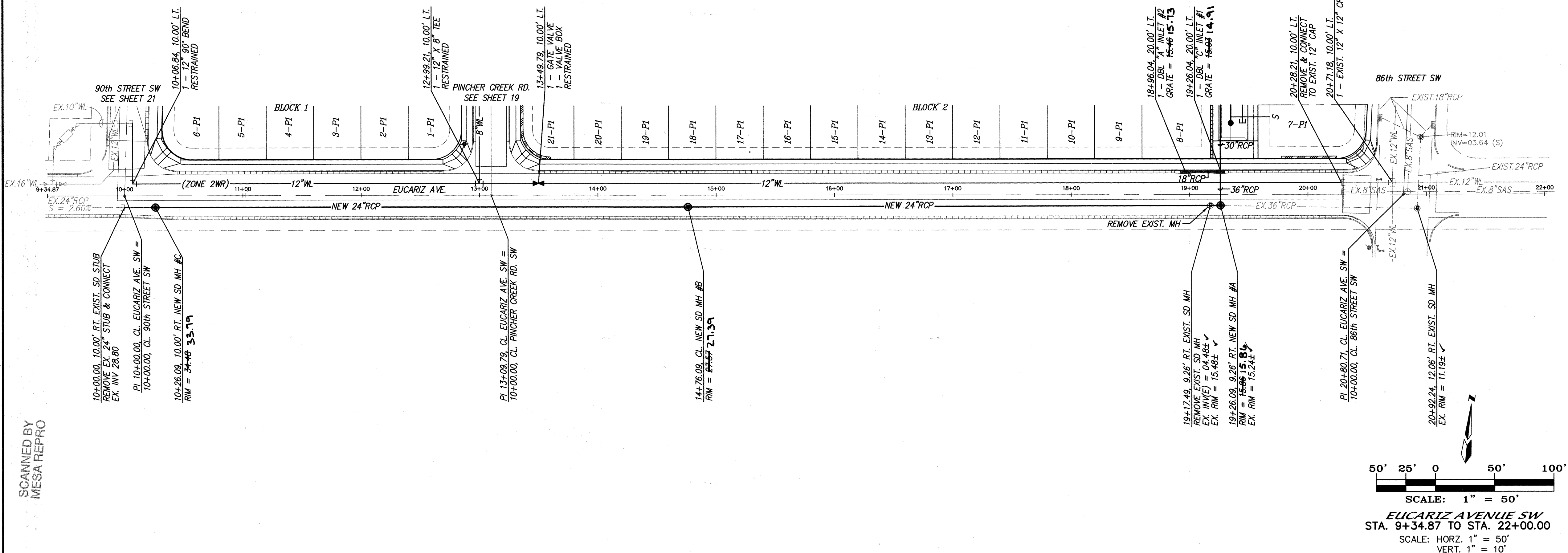
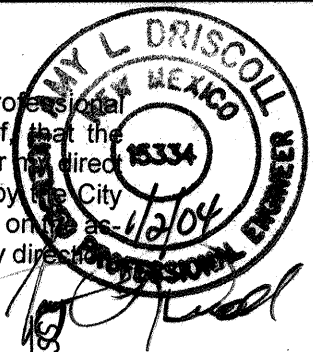


CITY PROJECT NO. 7133.81 ZONE MAP NO. L-9-Z SHEET 15 OF 24

AS BUILT INFORMATION	
CONTRACTOR	FRANKLIN
WORK DATE	03
STAKED BY	ALS
ACCEPTANCE BY	Dmg
FIELD ACTION BY	ALS
DRAWINGS DATE	03
CORRECTED BY	ALS
RECORDED BY	MICRO-FILM INFORMATION
NO.	DATE
BENCH MARKS	
ACS BRASS CAP STAMPED "7+93, 1989". THE STATION IS 530 FEET FROM THE CENTERLINE OF 90th STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE.	
GEOGRAPHIC POSITION (NAD 1927), IN FEET.	
NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE).	
X = 355,815.71, Y = 1,462,842.09	
ELEVATION = 5137.363, NGVD29, IN FEET.	
SURVEY INFORMATION	
NO.	DATE
BY	
ENGINEER'S SEAL	
AMY L. DRISCOLL NEW MEXICO 15334 6/18/03 REGISTERED PROFESSIONAL ENGINEER	
NO.	DATE
REVISIONS	DATE
DESIGN	12/02
ALD	12/02
NHE	12/02
Dmg	12/02

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.



NOTES

- ALL STATIONING IS CENTERLINE STATIONING.
- SEE GATE VALVE BOX DETAIL ON SHEET 22.

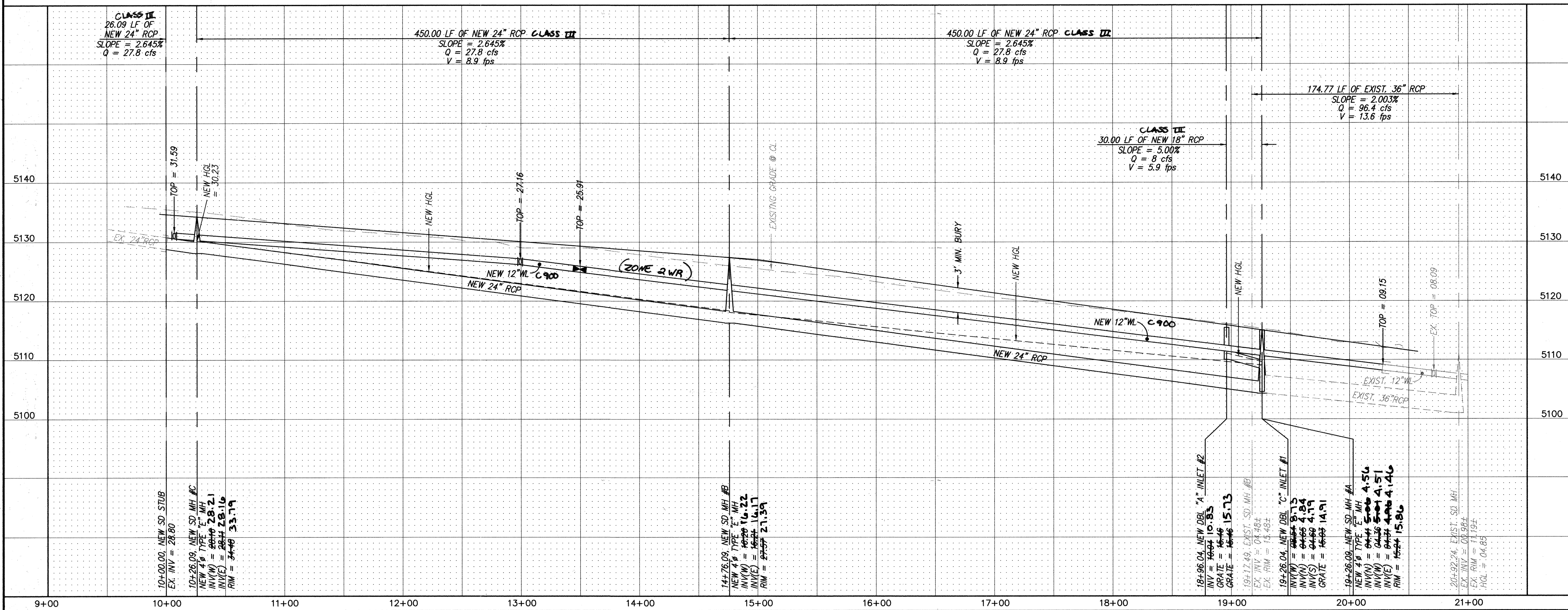
RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	-	-	46'
10"	-	11'	5'	3'	72'
12"	30'	12'	6'	3'	85'

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.

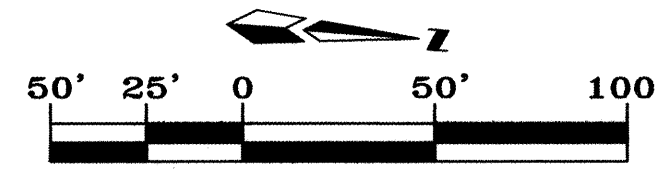
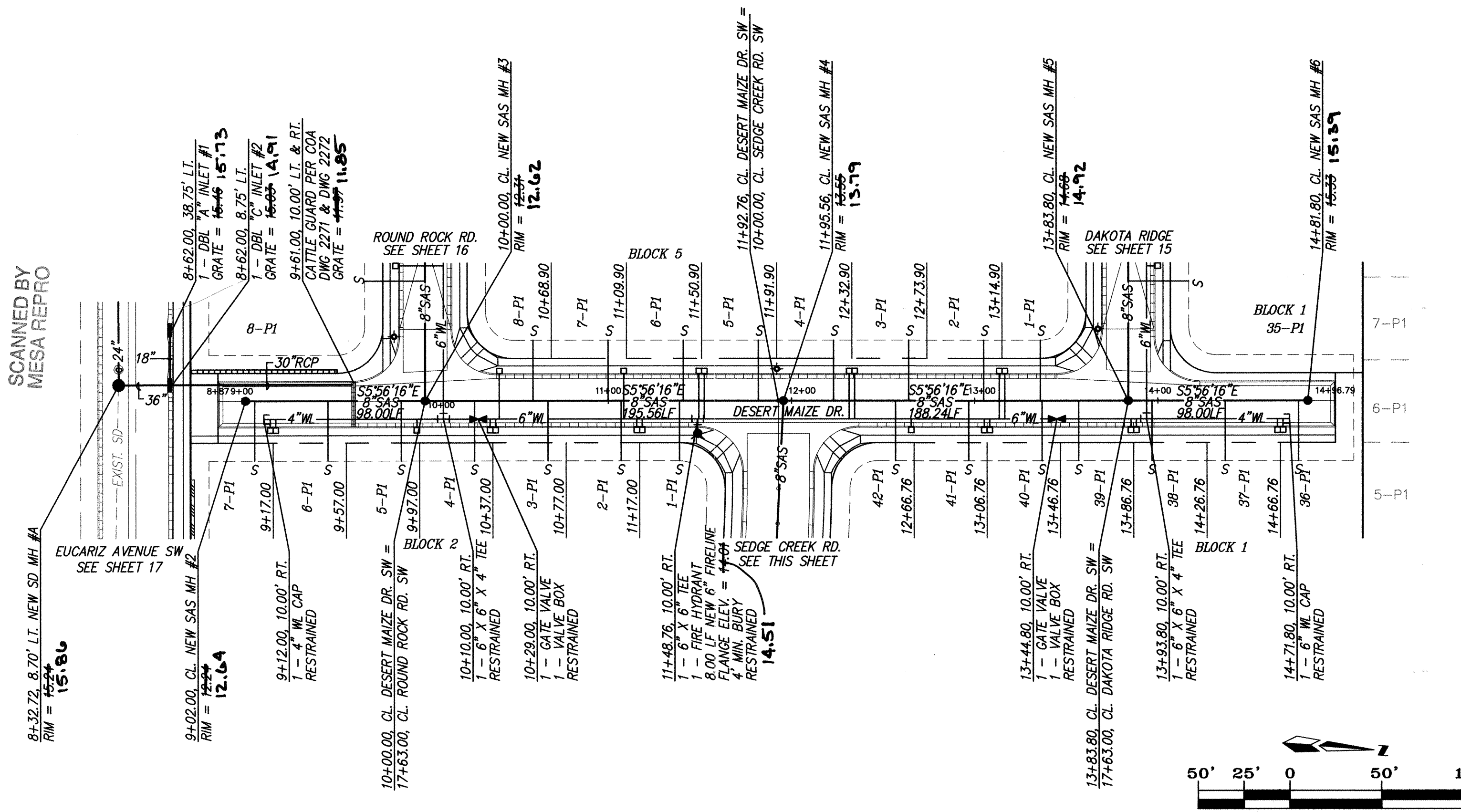
RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)		
PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44'	-

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
12"x12"x8"	8'	5'
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
6"x6"x6"	10'	2'

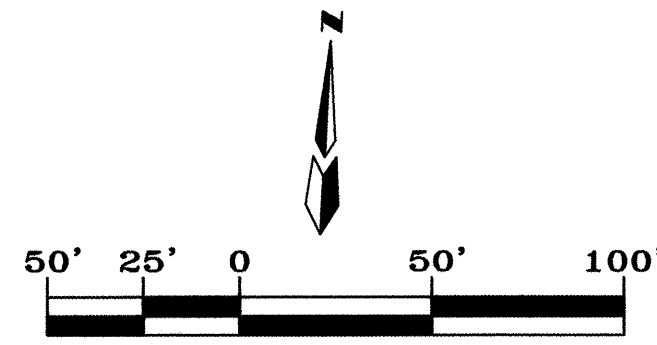
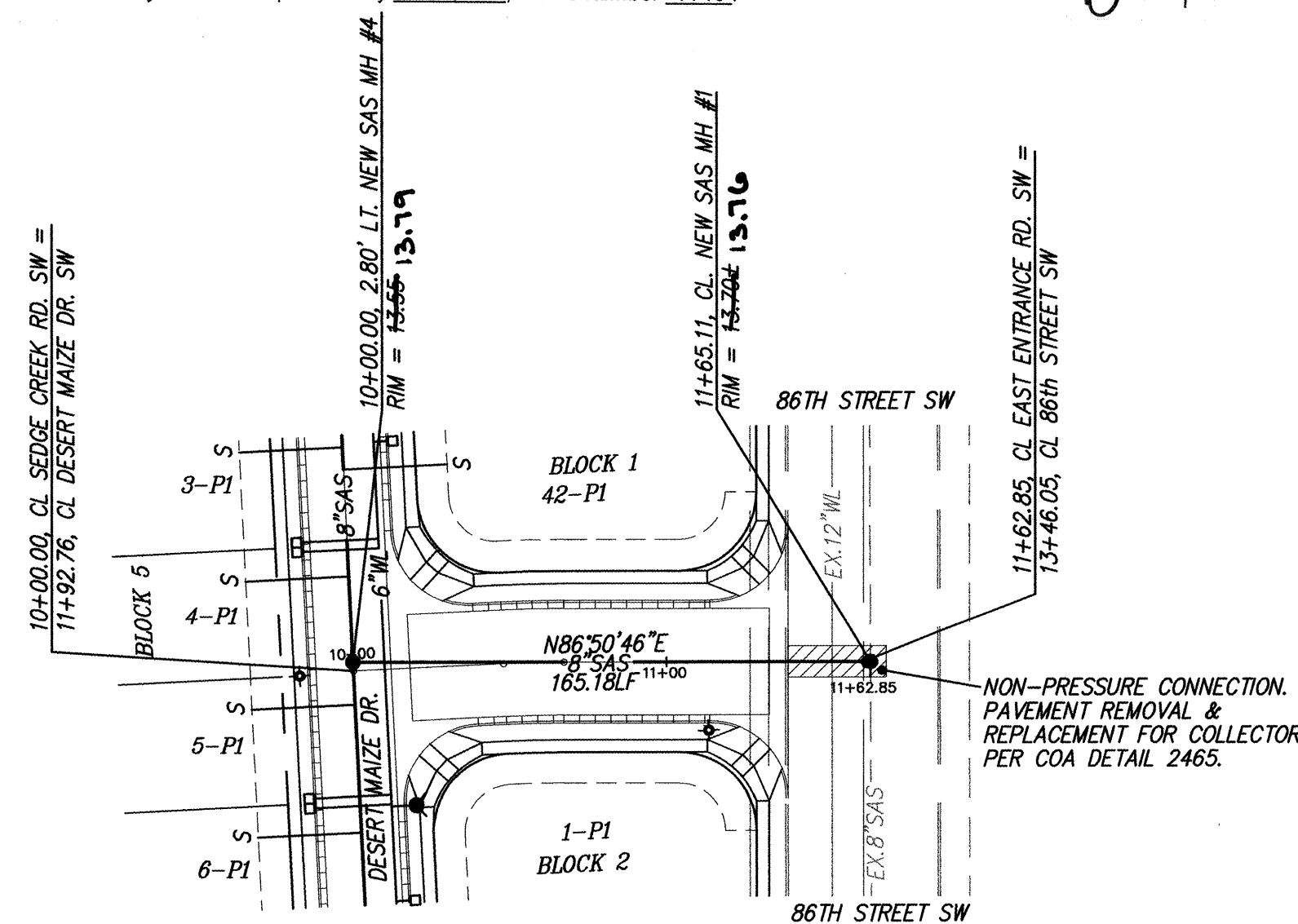
AS BUILT INFORMATION			
CONTRACTOR	WORK	DATE	DATE
FRANKLIN	ALS	03	03
STATIONED BY	DATE	DATE	DATE
ALS	03	03	03
FIELD	DATE	DATE	DATE
ALS	03	03	03
DESIGNED BY	DATE	DATE	DATE
ALS	03	03	03
CHECKED BY	DATE	DATE	DATE
ALS	03	03	03
RECORDED BY	DATE	DATE	DATE
ALS	03	03	03
NO.	DATE	DATE	DATE
1	12/02	12/02	12/02



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
DESERT PINE - UNIT 4 EUCARIZ AVE S.W. UTILITY & STORM IMPROVEMENTS	
APPROVED JUL 16 2003 DESIGN REVIEW COMMITTEE	APPROVED AUG - 5 2003 CITY ENGINEER
MO./DAY/YR.	MO./DAY/YR.
LAST DESIGN UPDATE	LAST DESIGN UPDATE
MO./DAY/YR.	MO./DAY/YR.
MO./DAY/YR.	MO./DAY/YR.



DESERT MAIZE DR. SW
STA. 8+87.00 TO STA. 14+96.79
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



SEDGE CREEK RD. SW
STA. 10+00.00 TO STA. 14+96.79
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 Professional Engineer and that the original design intent of the approved plans has been met, except as noted by me on the built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 22.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	36	14+76.76	09.97'	33.00'
1	37	14+76.76	09.73'	33.00'
1	38	13+96.76	09.49'	33.00'
1	39	13+56.76	09.25'	33.00'
1	40	13+36.76	09.13'	33.00'
1	41	12+96.76	08.89'	33.00'
1	42	12+56.76	08.65'	33.00'
2	1	11+38.76	07.95'	33.00'
2	2	11+07.00	07.76'	33.00'
2	3	10+67.00	07.52'	33.00'
2	4	10+27.00	07.28'	33.00'
2	5	9+87.00	07.04'	33.00'
2	6	9+47.00	06.70'	33.00'
2	7	9+07.00	06.36'	33.00'
5	1	13+35.80	09.13'	33.00'
5	2	13+04.90	08.94'	33.00'
5	3	12+63.90	08.70'	33.00'
5	4	12+22.90	08.45'	33.00'
5	5	11+81.90	08.21'	33.00'
5	6	11+40.90	07.96'	33.00'
5	7	10+99.90	07.71'	33.00'
5	8	10+58.90	07.47'	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.

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'
6"x6"x4"	4'	7'

 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: ***DESERT PINE - UNIT 4***
DESERT MAIZE DR. SW & SEDGE CREEK RD. SW
UTILITY & STORM IMPROVEMENTS

DESIGN REVIEW COMMITTEE

APPROVED

JUN 6 2003

CITY ENGINEER APPROVAL
APPROVED
AUG - 5 2003

DESIGN
REVIEW COMMITTEE
CITY PROJECT NO.

CITY ENGINEER	
	ZONE M

CITY PROJECT NO.

ZONE MAP NO.

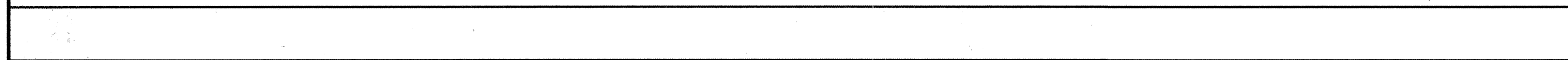
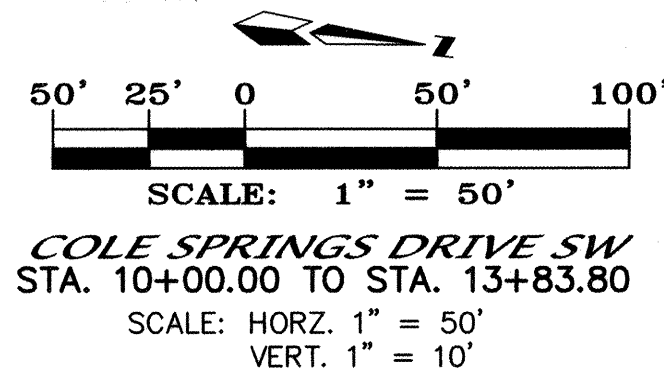
SHEET OF

A2108CP/DWG/A2108-UP5 07-07-03 NHE ACH

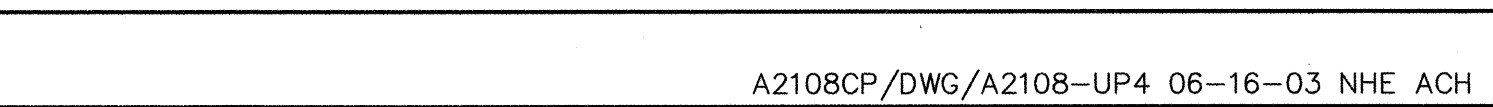
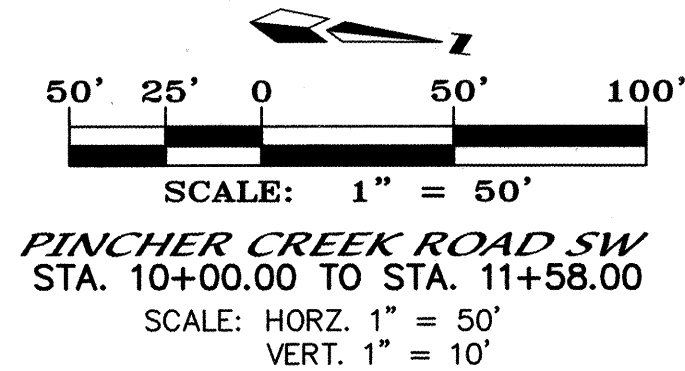
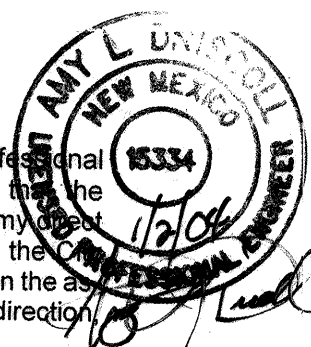
7133.81

MAP NO.

ET OF



I, Amy L. Driscoll, 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 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.



1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 22.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (F.T.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	—	—	46'
8"	22'	9'	4'	2'	60'
10"	—	11'	5'	3'	72'

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF
THE BEND. RESTRRAIN 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
12"x12"x8"	8'	5'
10"x10"x10"	15'	
10"x10"x6"	6'	1'
8"x8"x6"	7'	5'
6"x6"x6"	10'	2'

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: **DESERT PINE - UNIT 4**
COLE SPRINGS DR. SW & PINCHER CREEK RD. SW
UTILITY IMPROVEMENTS

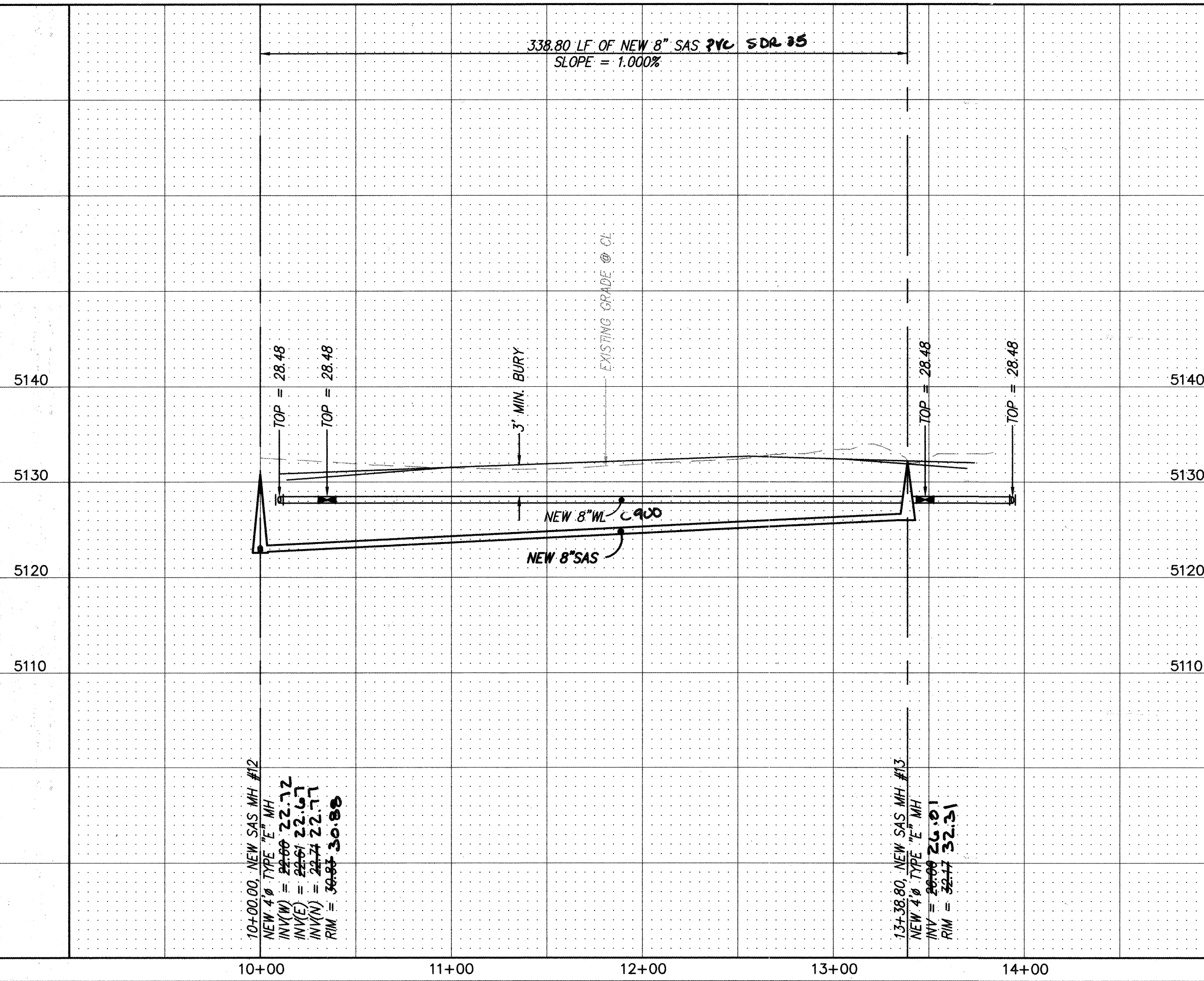


CITY ENGINEER APPROVAL
APPROVED
AUG - 5 2003
CITY ENGINEER

CITY PROJECT NO.	ZONE MAP NO.	SHEET OF
7133.81	L-9-Z	19 24

SHEET 19 OF 24 DATE 12/02/02 MO./DAY/YR.		PROJECT 4 CREEK RD. SW WENTZ		ENGINEER'S SEAL 		SURVEY INFORMATION FIELD NOTES NO. BY DATE		BENCH MARKS ACS BRASS CAP STAMPED "7-93, 1989". THE STATION IS 530 FEET FROM THE CENTERLINE OF 90TH STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE.		AS BUILT INFORMATION CONTRACTOR Franklin WORK ORDER BY ALB DATE 03/03 INSPECTOR'S ACCEPTANCE BY DMG DATE 03/03 FIELD CATION BY ALB DATE 03/03 DRAWINGS CORRECTED BY ALB DATE 12/03 MICRO-FILM INFORMATION RECORDED BY NO. DATE	
NO. DATE REMARKS		DESIGNED BY ALD DATE 12/02		DRAWN BY NHE DATE 12/02		CHECKED BY DMG DATE 12/02		GEOGRAPHIC POSITION (NAD 1927), IN FEET. NEW MEXICO STATE PLANE COORDINATES (CENTRAL ZONE). $X = 355,815.71$, $Y = 1,482,842.09$ ELEVATION = 5137.363, NGVD29, IN FEET.		NO. DATE	

SCANNED BY
MESA REPRO



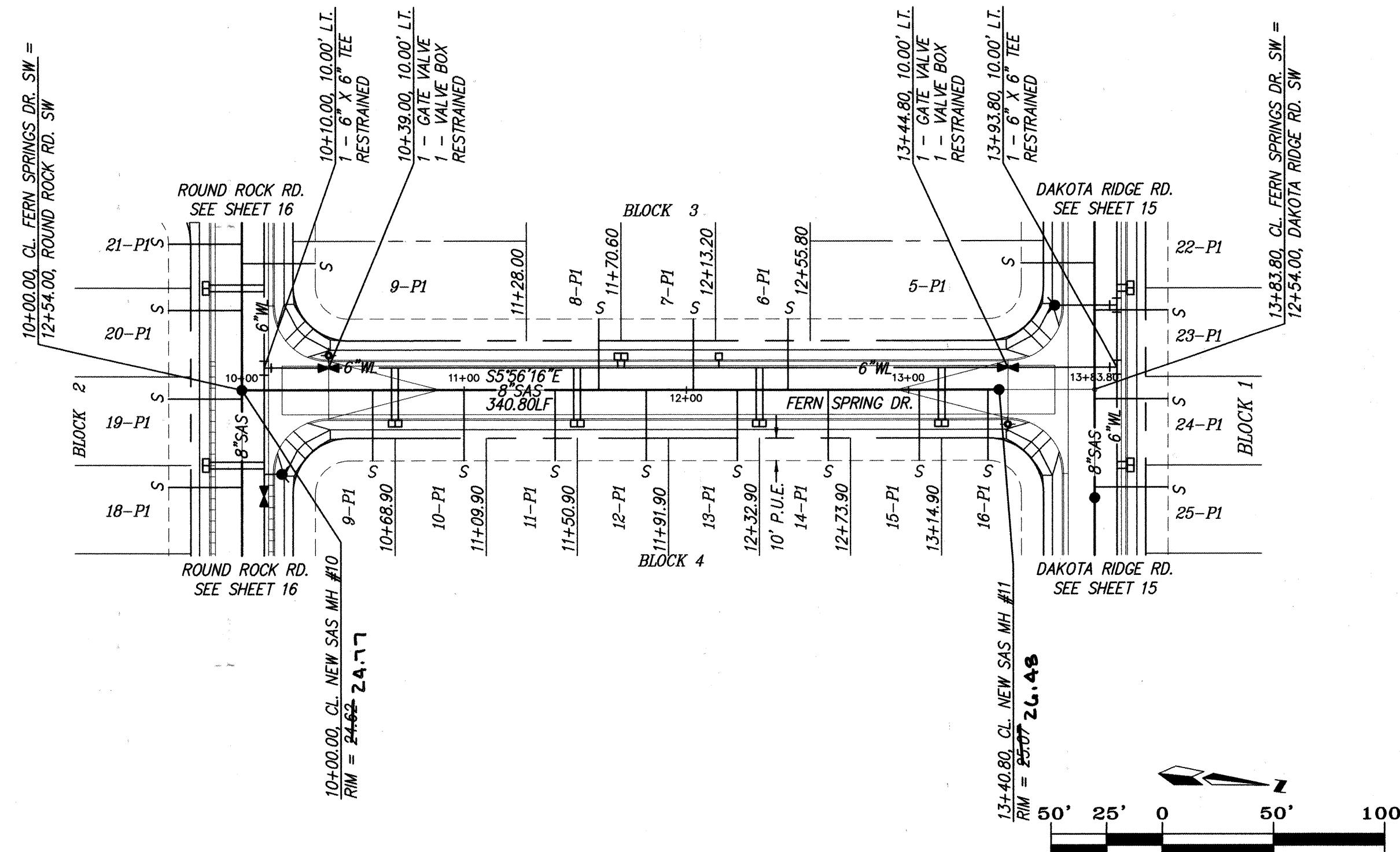
10+00.00, CL. NEW SAS MH #12
INV = 22.45
INVERT = 22.45
INVERT = 22.45
RIM = 24.45

11+00.00

12+00.00

13+00.00

14+00.00



10+00.00, CL. NEW SAS MH #10
INV = 24.45
INVERT = 24.45
INVERT = 24.45
RIM = 26.45

11+00.00

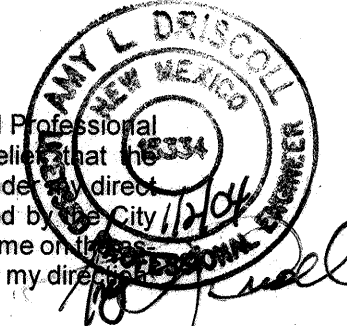
12+00.00

13+00.00

14+00.00

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Amy L. Driscoll, 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 me as the Engineer and that the original design intent of the approved plans has been met, except as noted by me on the built construction drawings. This Certification is based on site inspections by me or personnel under my direct supervision and survey information provided by ALS, Inc., NMPS number 7719.



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.
2. SEE GATE VALVE BOX DETAIL ON SHEET 22.

SANITARY SEWER SERVICES				
BLOCK	LOT	STATION AT PUE	INV. ELEV. AT PUE	LENGTH AT PUE
1	7	10+50.00	25.78'	32.00'
1	8	10+93.80	26.45'	32.00'
1	9	11+37.80	26.84'	32.00'
1	10	11+81.80	27.17'	32.00'
1	11	12+25.80	27.50'	32.00'
1	12	12+69.80	27.65'	32.00'
1	13	13+13.80	27.31'	32.00'
1	14	13+33.80	26.99'	32.00'
3	15	11+60.60	27.00'	32.00'
3	16	12+03.20	26.95'	32.00'
3	17	12+45.80	27.65'	32.00'
3	18	12+45.80	21.80'	32.00'
3	19	12+03.20	21.41'	32.00'
3	20	11+60.60	21.01'	32.00'
4	9	10+58.90	19.76'	32.00'
4	10	10+99.90	20.45'	32.00'
4	11	11+40.90	20.83'	32.00'
4	12	11+81.90	21.21'	32.00'
4	13	12+22.90	21.59'	32.00'
4	14	12+63.90	21.84'	32.00'
4	15	13+04.90	21.60'	32.00'
4	16	13+45.90	21.13'	32.00'

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)				
PIPE SIZE	90°	45°	22.5°	11.25° VALVE
6"	17'	7'	-	46'
8"	22'	9'	4'	60'
10"	-	11'	5'	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.

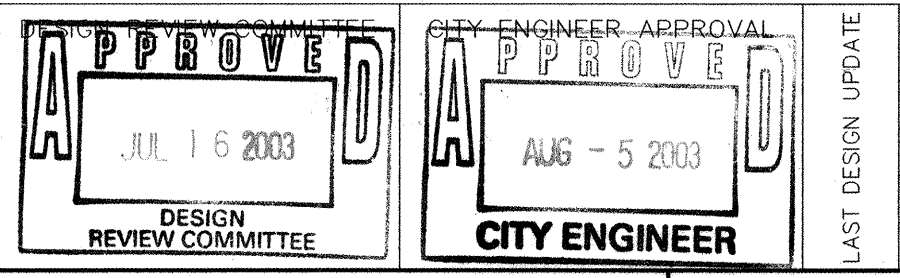
RESTRAINED JOINT LENGTHS FOR REDUCERS (FT.)		
PIPE SIZE	LARGE SIDE	SMALL SIDE
10" X 6"	44'	-

RESTRAINED JOINT LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
10"x10"x10"	15'	5'
10"x10"x6"	6'	1'
8"x8"x6"	7'	5'
8"x8"x4"	3'	7'
6"x6"x6"	10'	2'

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
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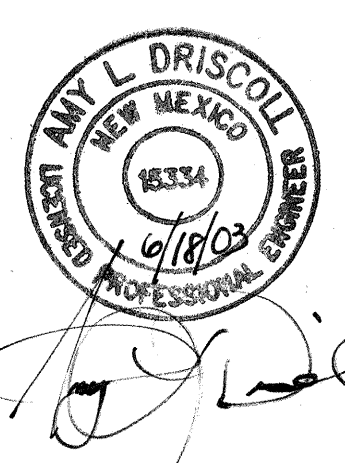
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **DESERT PINE - UNIT 4**
RISA SPRINGS DR. SW / FERN SPRINGS DR. SW
UTILITY IMPROVEMENTS



CITY PROJECT NO. **7133.81** ZONE MAP NO. **L-9-Z** SHEET **20** OF **24**

AS BUILT INFORMATION			
CONTRACTOR	WORK	DATE	NO.
ALS	ALS	03	
BENCH MARKS			
ACS BRASS CAP STAMPED "7-19-1988"	THE STATION IS 530 FEET FROM THE CENTERLINE OF 90TH STREET GOING EAST DOWN THE CENTERLINE OF CENTRAL AVENUE	DATE	NO.
DATE	NO.	DATE	NO.
03		03	
SURVEY INFORMATION			
NO.	BY	DATE	NO.
ENGINEER'S SEAL			
NO.	DATE	REVISIONS	DESIGN
DESIGNED BY	DATE	12/02	
DRAWN BY	DATE	12/02	
CHECKED BY	DATE	12/02	



REVISIONS

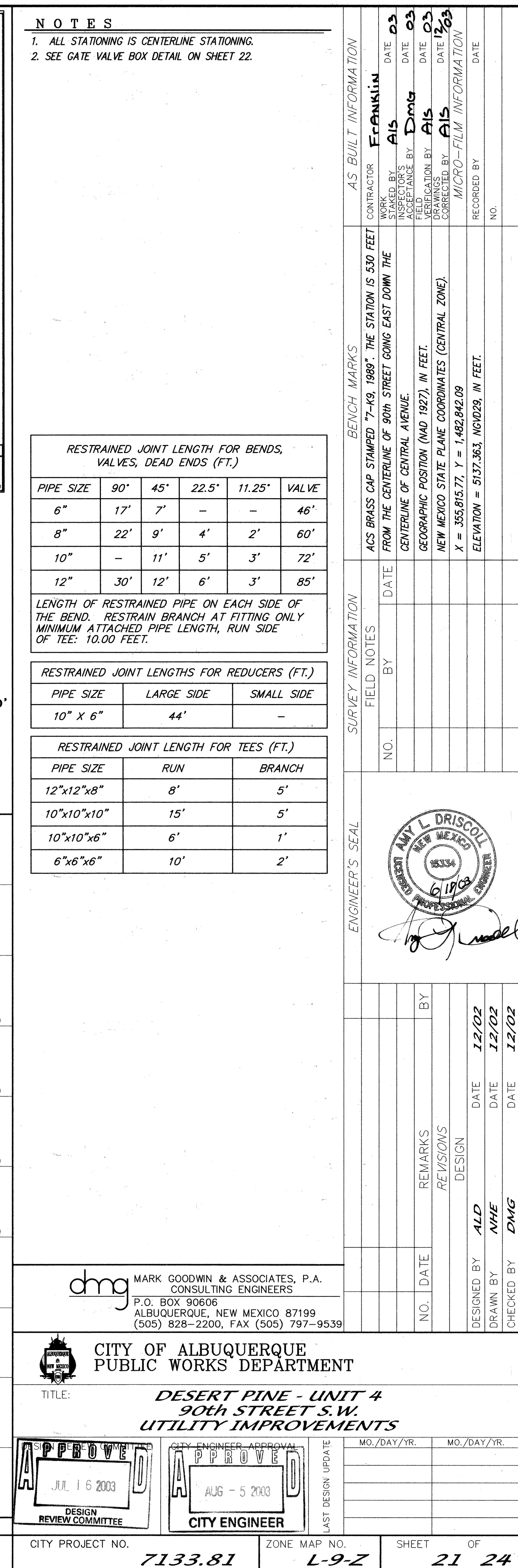
DESIGN

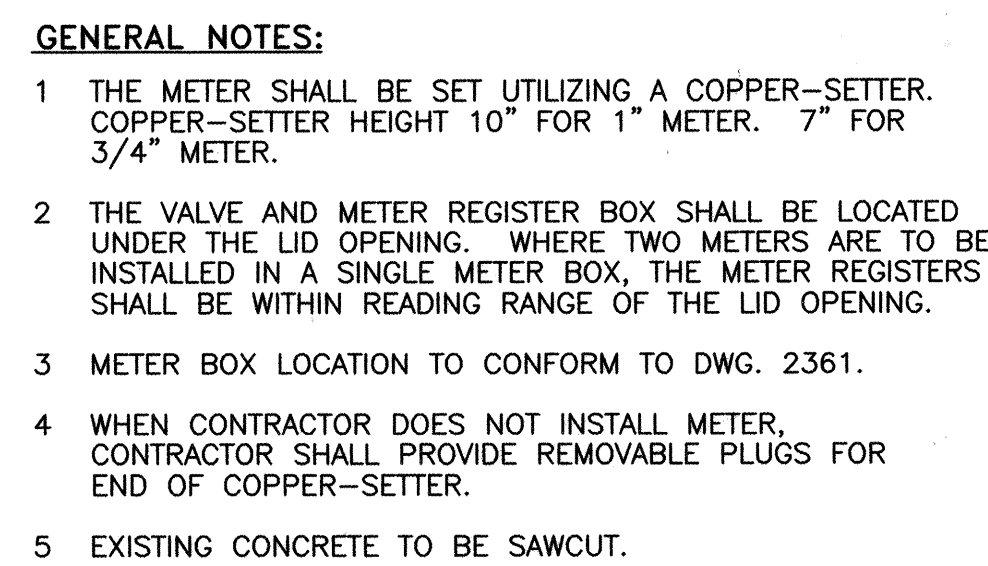
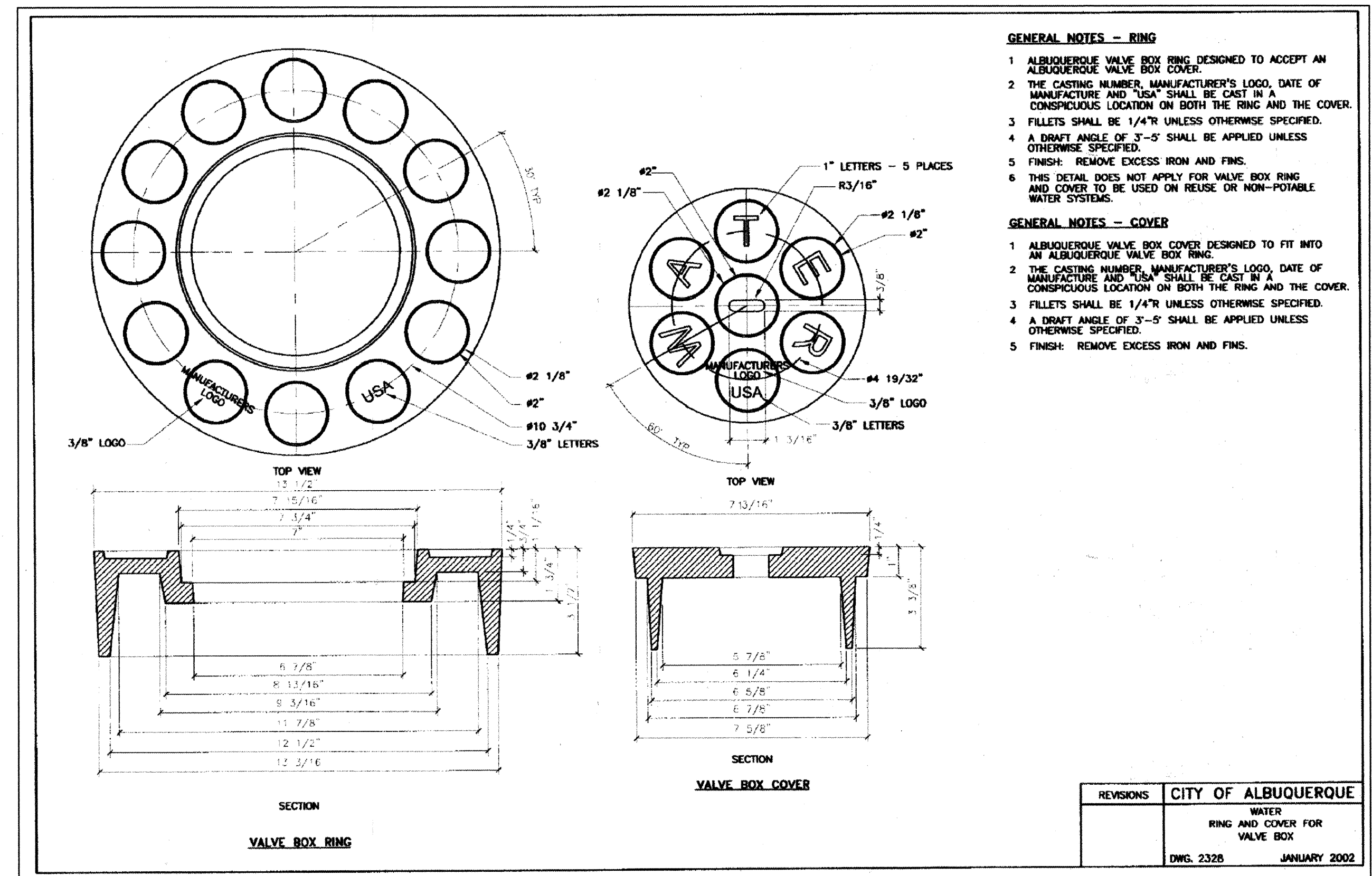
12/02

12/02

12/02

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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.

	MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS														
	P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539														
 DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____ CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT															
TITLE: <i>DESERT PINE - UNIT # WATER DETAILS</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. 7133.81								ZONE MAP NO. L-9-Z		SHEET 22 OF 24					

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 OCCUPANCY 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:

1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

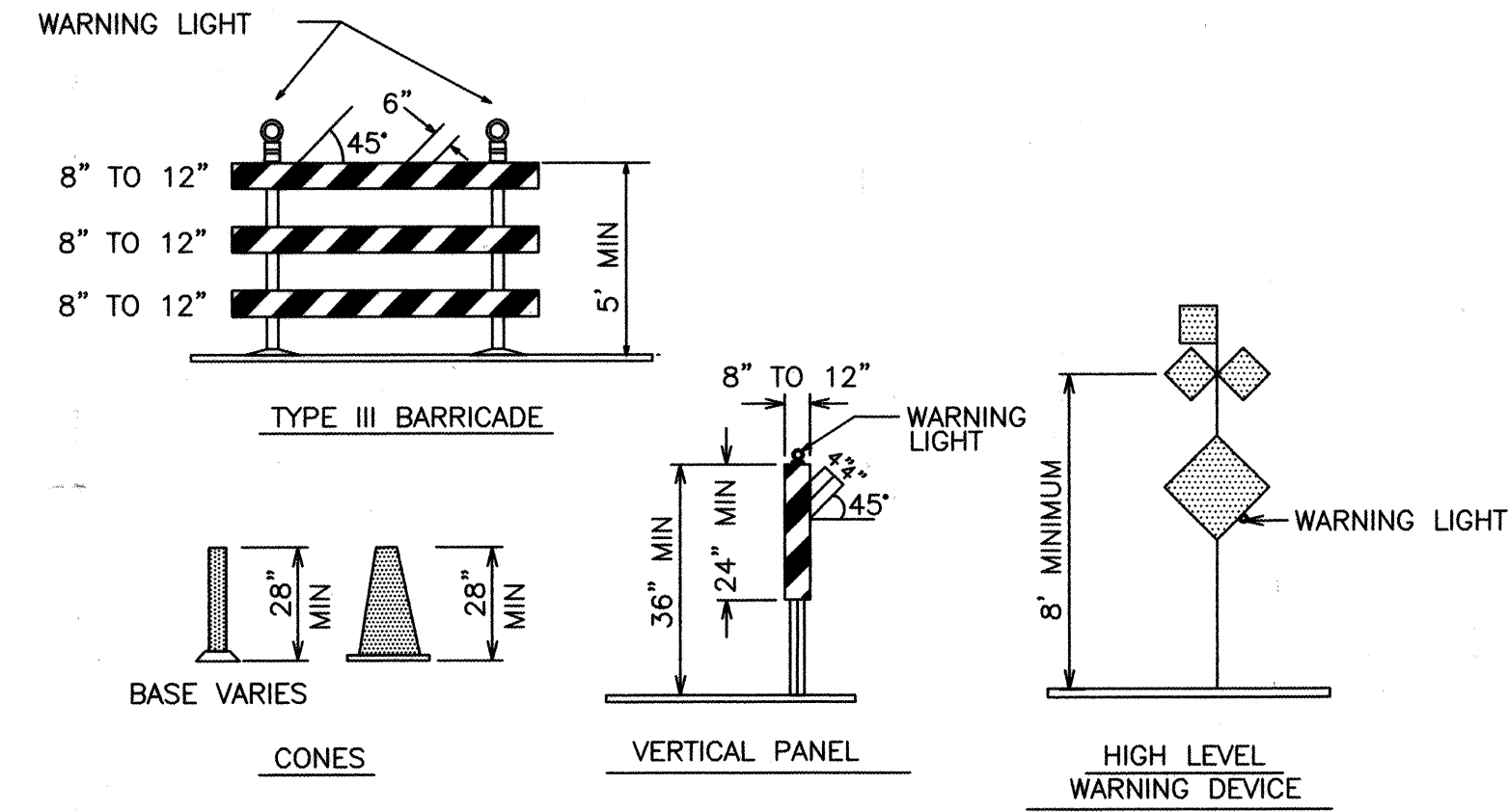
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

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	13' 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)	MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS		FROM LAST SIGN TO TAPER
		10 X SPEED LIMIT	10 X SPEED LIMIT	
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

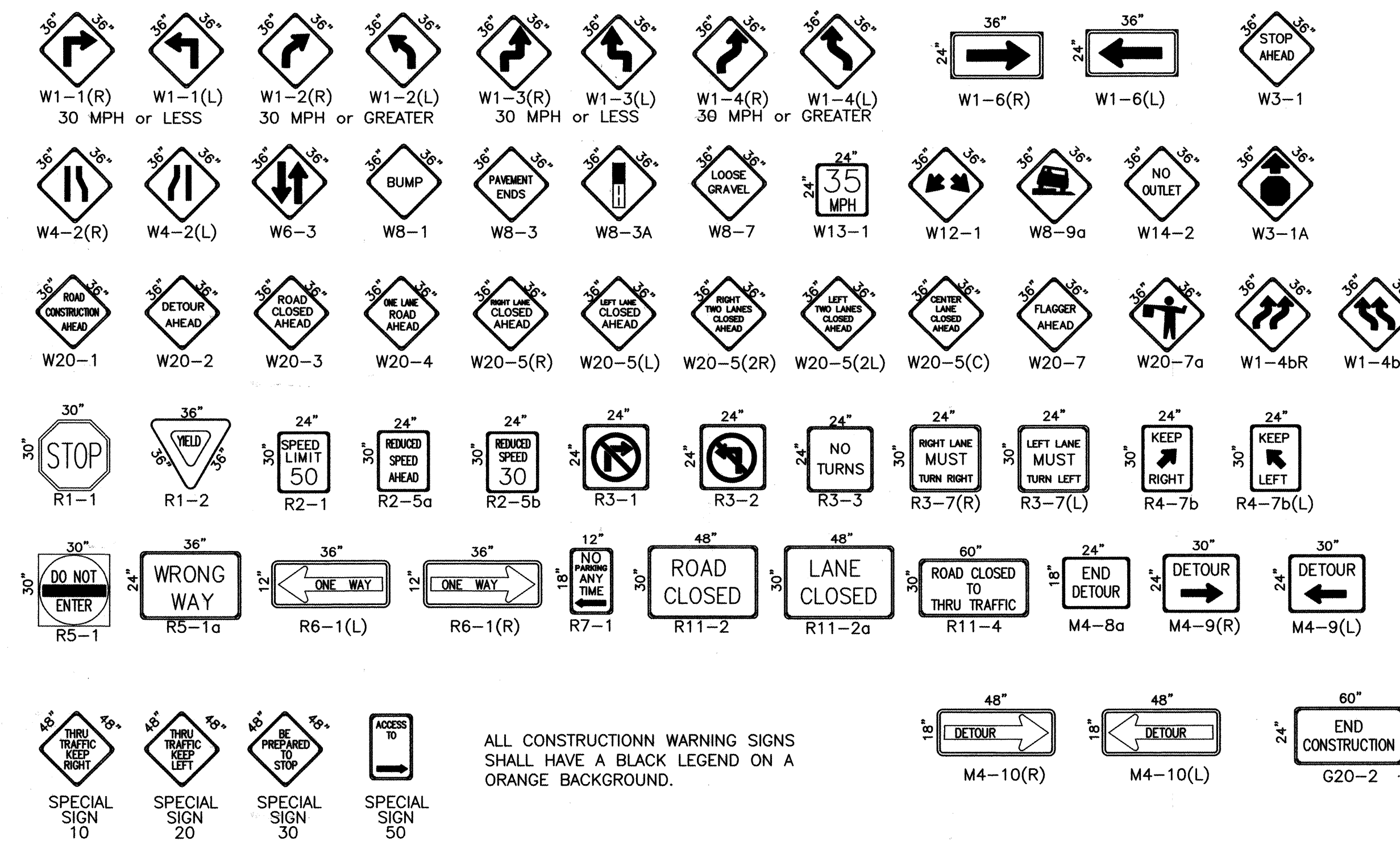
TAPER CRITERIA

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

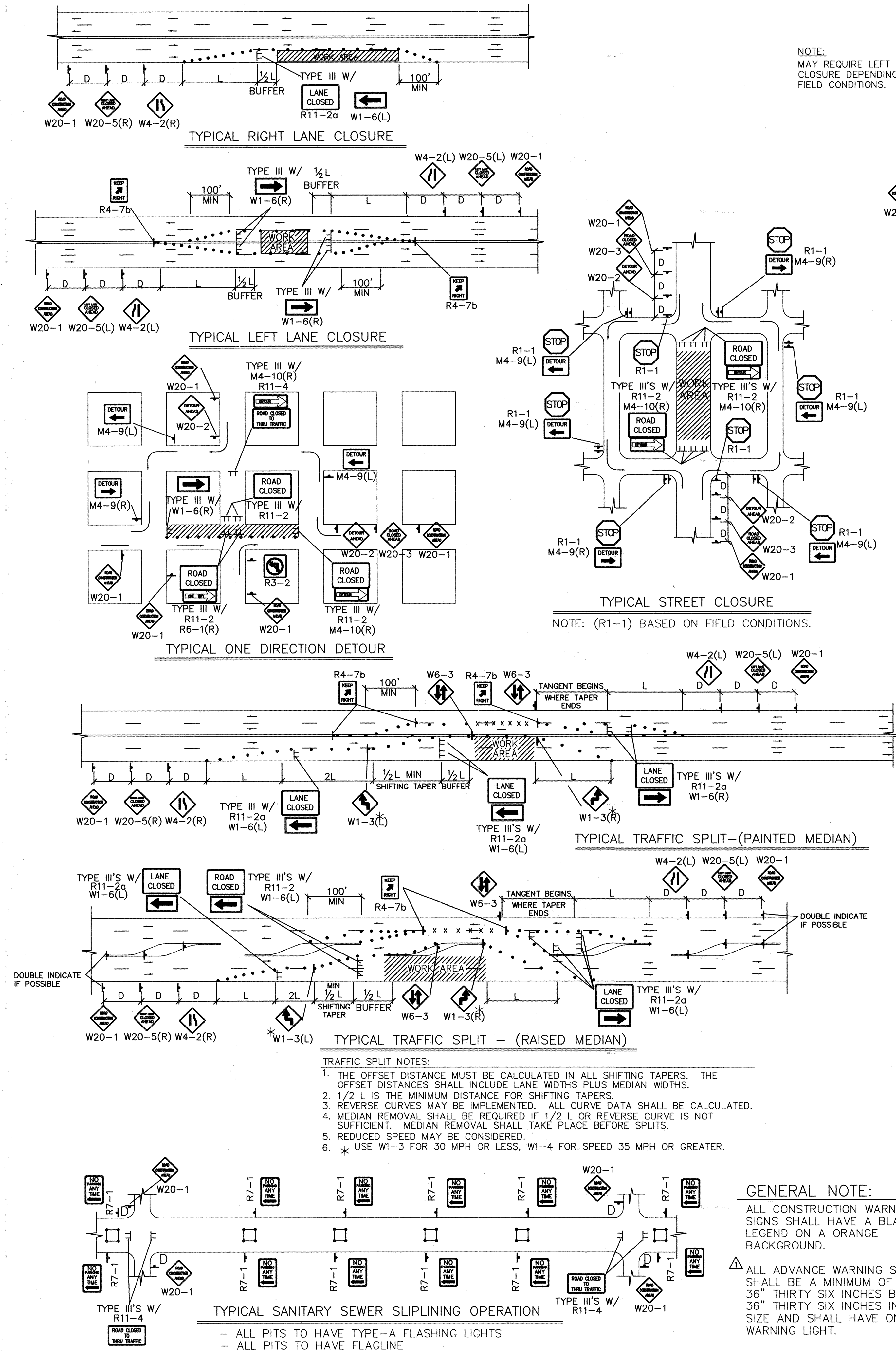


ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

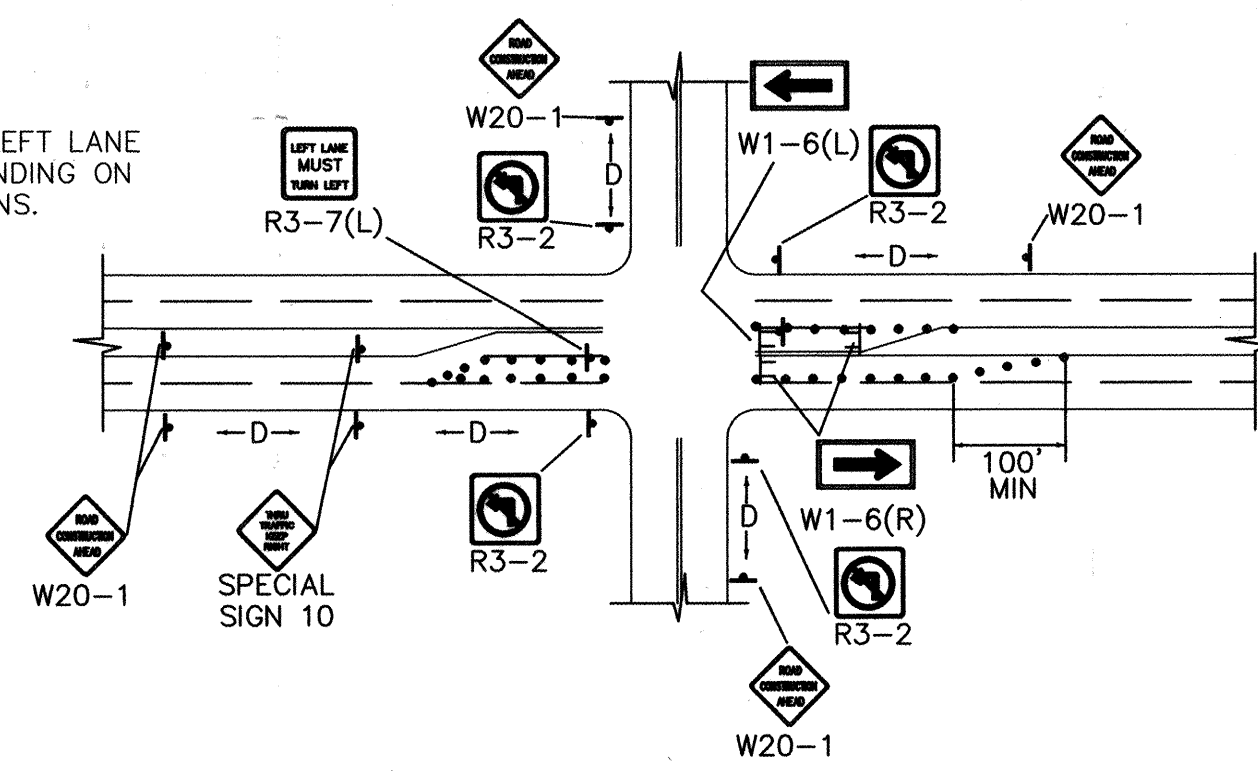
SCANNED BY
MESA REPRO

F:\02-DBS\02108CP\04g\citysign.dwg Tue Jun 17 11:25:13 2003 D: MARK GOODWIN & ASSOCIATES, PLTIED BY: ADH

			
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: DESERT PINE - UNIT 4			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
7133.81	L-9-Z	23	24

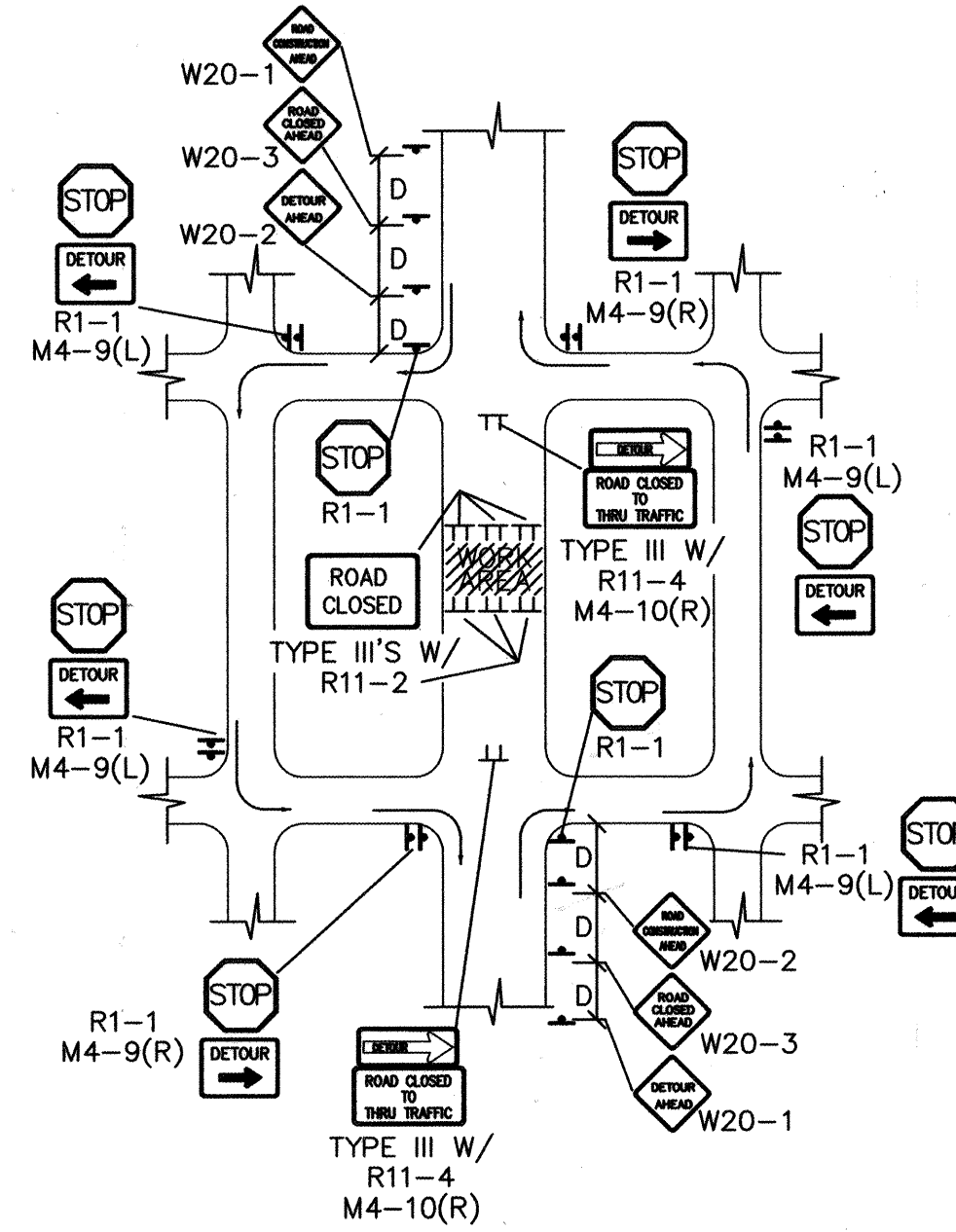


NOTE:
MAY REQUIRE LEFT LANE
CLOSURE DEPENDING ON
FIELD CONDITIONS.



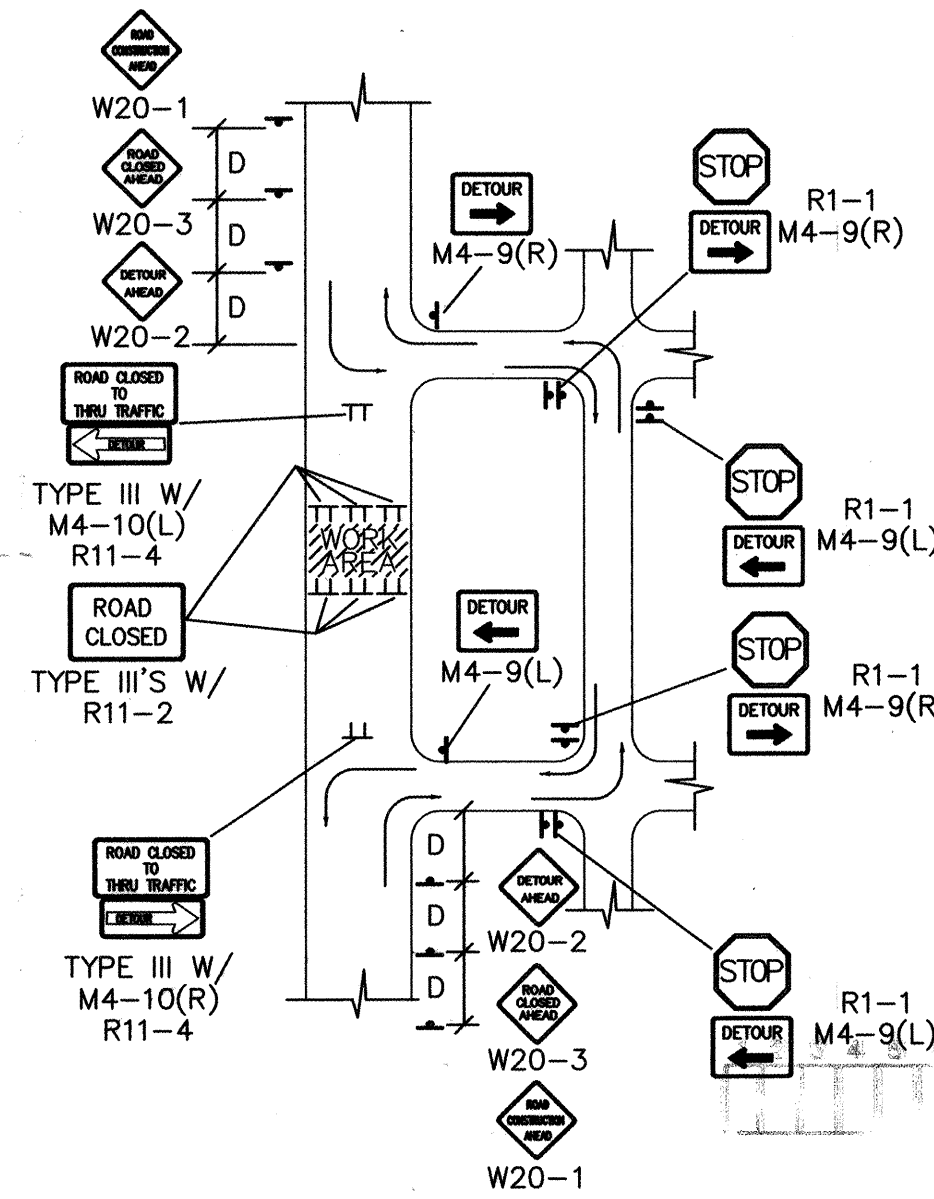
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



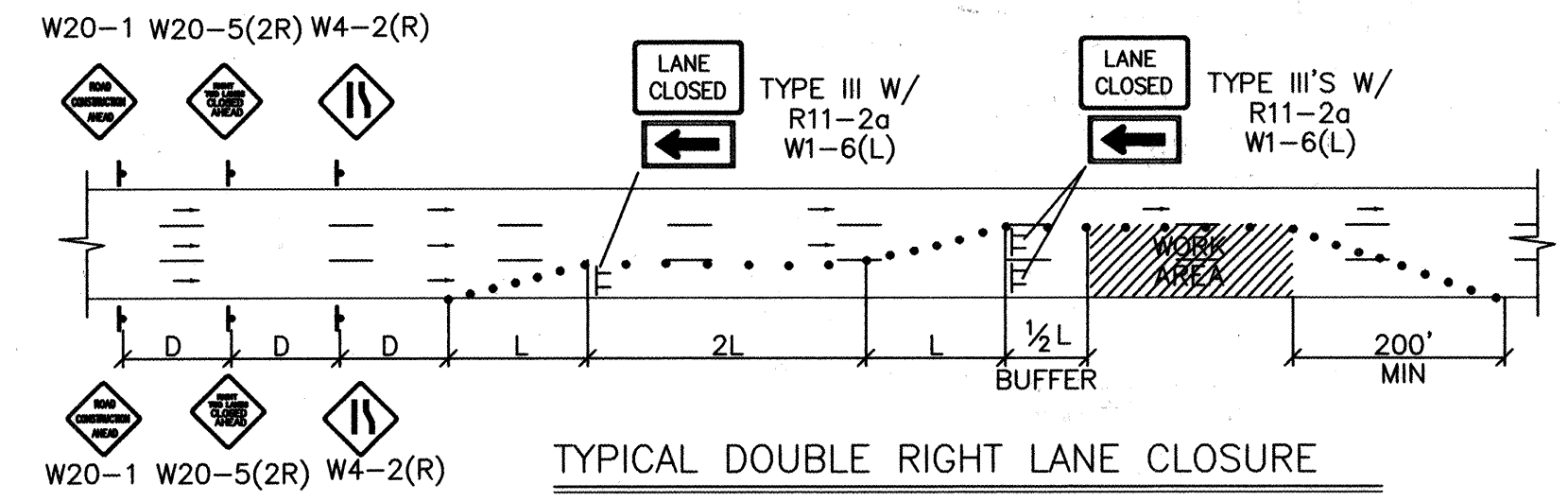
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS.

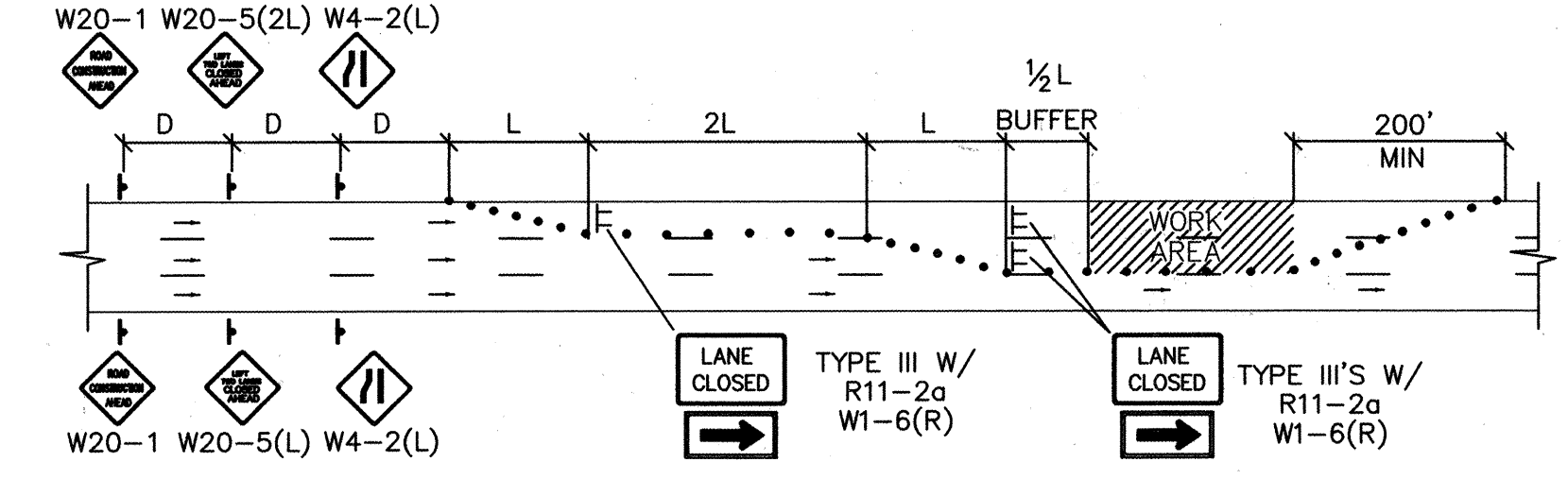


TYPICAL STREET CLOSURE

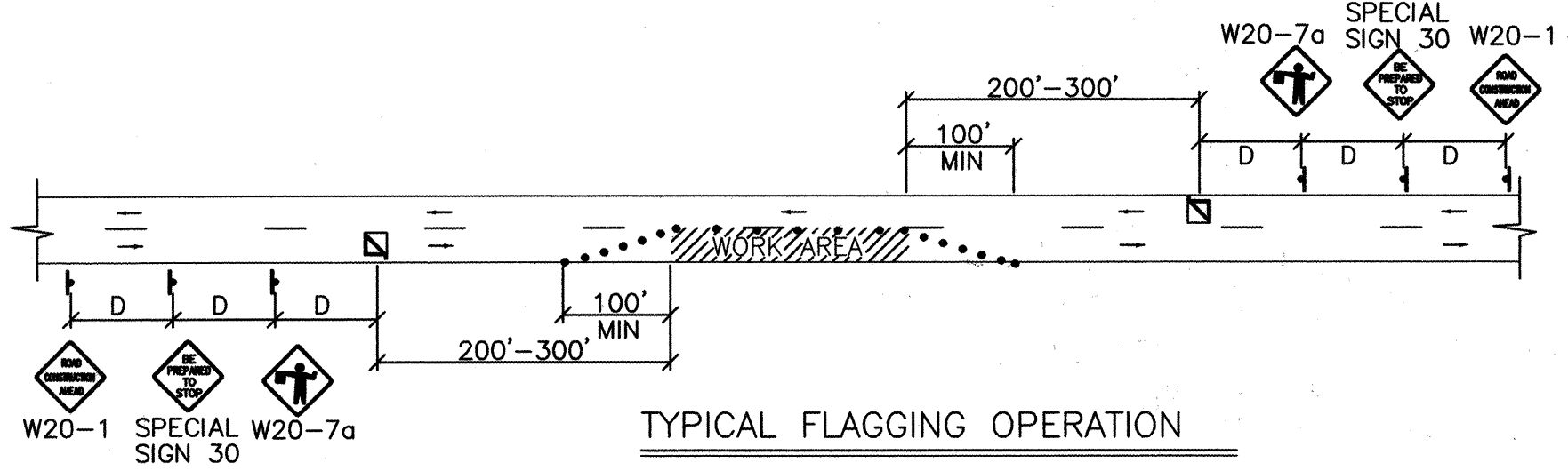
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



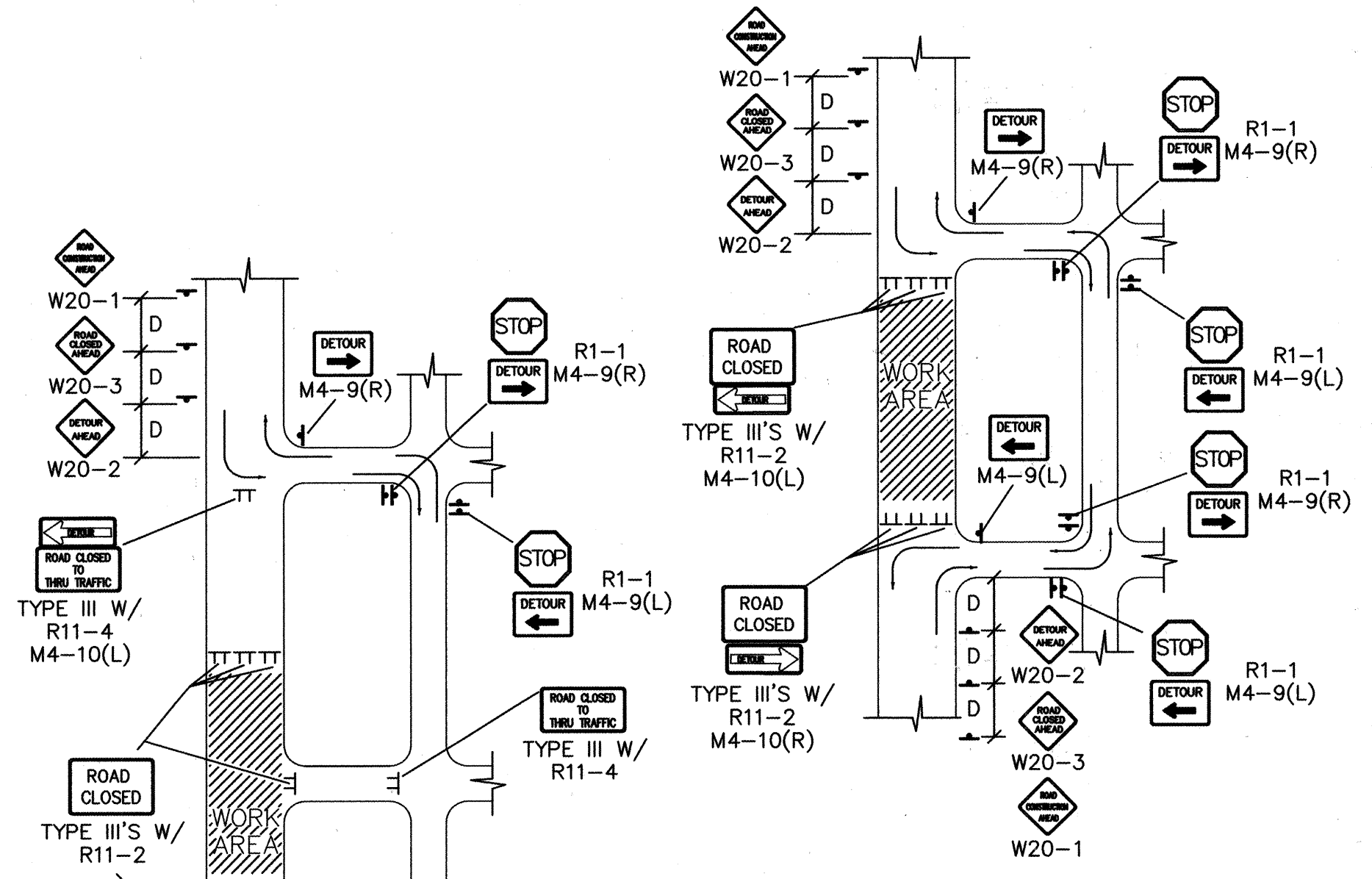
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE

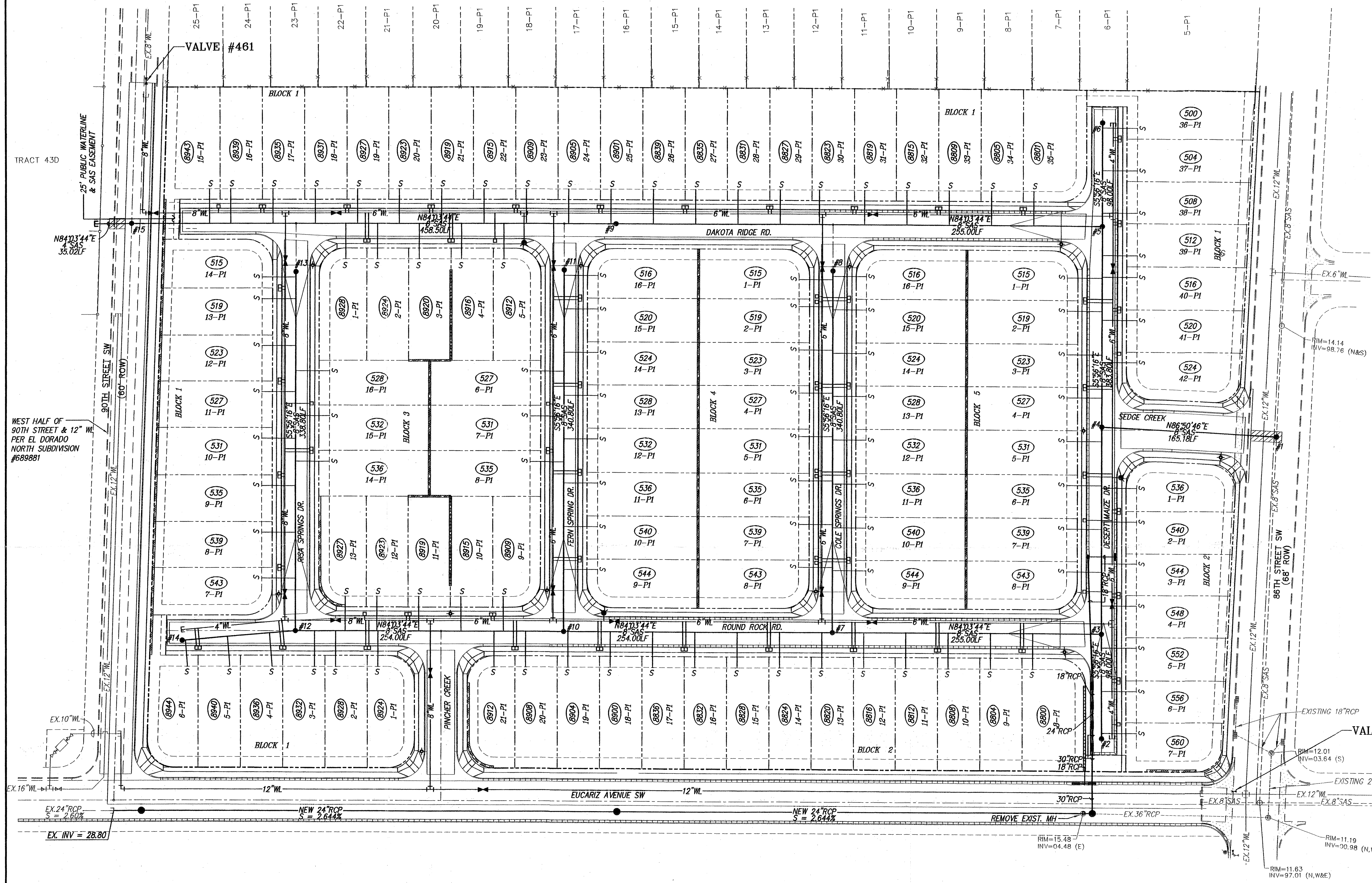
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: DESERT PINE - UNIT 4			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
C.O.A. STANDARD	C.O.A. STANDARD		
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
7133.81	L-9-Z	24	24

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-7/133.181-2012

SCANNED BY
PLANNING

VALHALLA ESTATES
(04-08-98, 98C-95)
BLOCK 3



LEGEND

- EXISTING CURB & GUTTER
- EXISTING TOP OF CURB
- EXISTING FLOWLINE
- EXISTING WATERLINE
- EXISTING SAS
- EXISTING STORMDRAIN
- NEW GARDEN WALL
- NEW RETAINING WALL
- NEW PUBLIC EASEMENTS
- NEW STANDARD CURB & GUTTER
- NEW MOUNTABLE CURB & GUTTER
- NEW PROPERTY LINE
- NEW LOT LINE
- NEW RIGHT-OF-WAY
- NEW SIDEWALK
- NEW STORM DRAIN
- NEW STORM DRAIN MH
- NEW WATERLINE
- NEW WATER METERS
- NEW TEE
- NEW VALVE
- NEW SAS
- NEW SAS MH
- NEW SAS SERVICES
- NEW LOT ADDRESS
- NEW STREET LIGHT

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN		DATE	
CONTRACTOR	DATE	WORK	DATE	NO.	BY			NO.	DATE	DESIGNED BY	DATE	DRAWN BY	DATE
FROM THE CENTERLINE OF 90TH STREET GOING EAST DOWN THE		DATE								ALD	11/02	MJR	11/02
CENTERLINE OF CENTRAL AVENUE.										CHECKED BY	DATE		DATE
GEOGRAPHIC POSITION (NAD 1927), IN FEET.													
NEW MOUNTABLE CURB & GUTTER													
NEW PROPERTY LINE													
NEW LOT LINE													
NEW RIGHT-OF-WAY													
NEW SIDEWALK													
NEW STORM DRAIN													
NEW STORM DRAIN MH													
NEW WATERLINE													
NEW WATER METERS													
NEW TEE													
NEW VALVE													
NEW SAS													
NEW SAS MH													
NEW SAS SERVICES													
NEW LOT ADDRESS													
NEW STREET LIGHT													

AFD PLANS CHECKING OFFICE
924-3611
APPROVED/DISAPPROVED
HYDRANT(S) ONLY
R. C. [Signature]
SIGNATURE & DATE



SCALE: 1" = 50'

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(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TITLE: **DESERT PINE - UNIT 4
MASTER UTILITY PLAN**

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

CITY PROJECT NO. 713381 ZONE MAP NO. L-9-Z SHEET # OF #

VALVE SHUT-OFF PLAN

- 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 SEE THIS SHEET FOR VALVE NUMBERS & LOCATIONS.
- FOR NON-PRESSURE CONNECTION AT 86TH ST. & EUCARIZ AVE., SHUT OFF VALVE #532.
- FOR NORTHERN NON-PRESSURE CONNECTION IN 90TH ST. SHUT OFF VALVE #461.
- FOR NON-LIVE CONNECTION AT 90TH ST. & EUCARIZ AVE., NO VALVES TO SHUT-OFF.