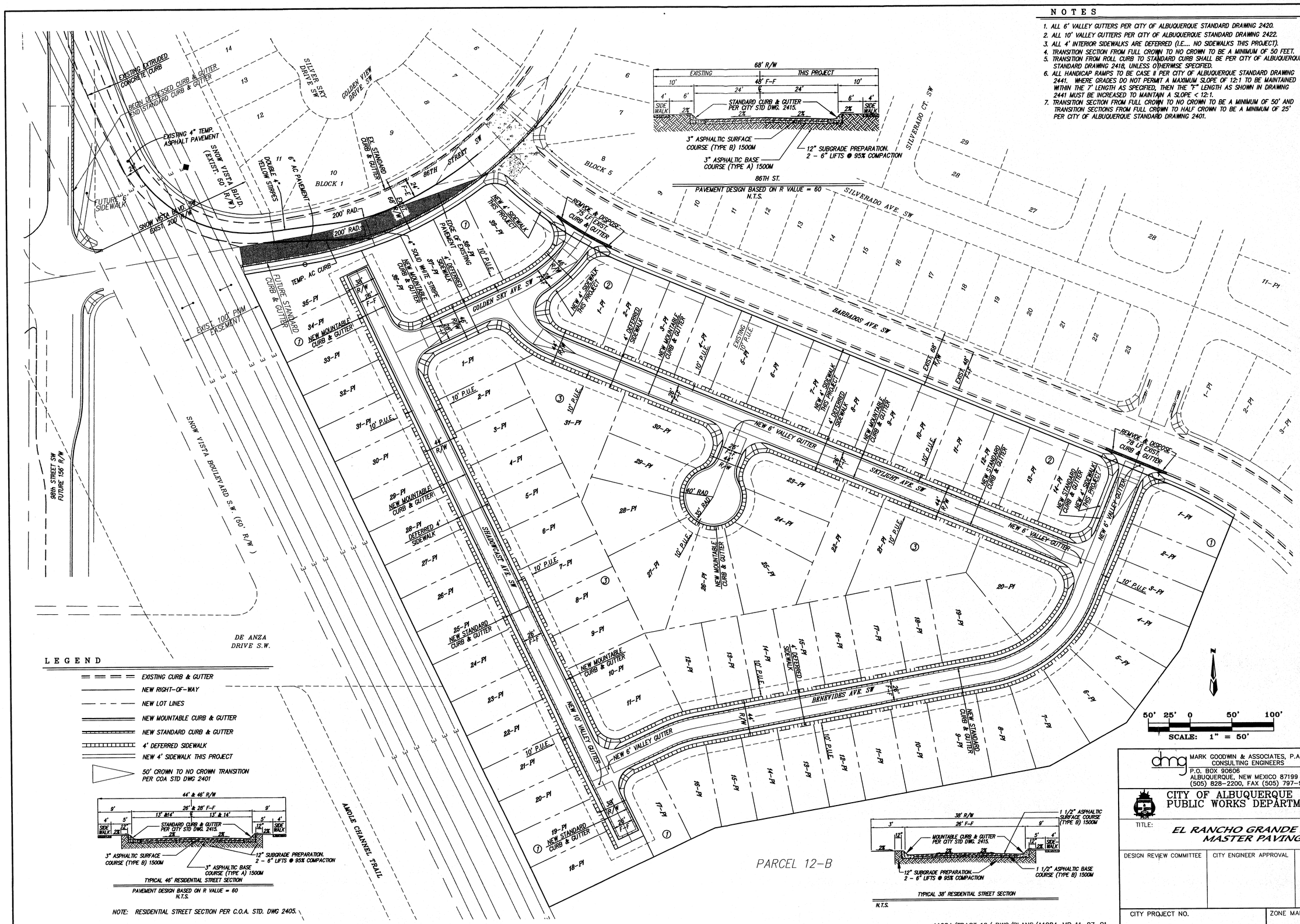
NOTES

1. ALL 6' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2420.
2. ALL 10' VALLEY GUTTERS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2422.
3. ALL 4' INTERIOR SIDEWALKS ARE DEFERRED (I.E.... NO SIDEWALKS THIS PROJECT).
4. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50 FEET.
5. TRANSITION FROM ROLL CURB TO STANDARD CURB SHALL BE PER CITY OF ALBUQUERQUE STANDARD DRAWING 2418, UNLESS OTHERWISE SPECIFIED.
6. ALL HANDICAP RAMPS TO BE CASE II PER CITY OF ALBUQUERQUE STANDARD DRAWING 2441. WHERE GRADES DO NOT PERMIT A MAXIMUM SLOPE OF 12:1 TO BE MAINTAINED WITHIN THE 7' LENGTH AS SPECIFIED, THEN THE "F" LENGTH AS SHOWN IN DRAWING 2441 MUST BE INCREASED TO MAINTAIN A SLOPE < 12:1.
7. TRANSITION SECTION FROM FULL CROWN TO NO CROWN TO BE A MINIMUM OF 50' AND TRANSITION SECTIONS FROM FULL CROWN TO HALF CROWN TO BE A MINIMUM OF 25' PER CITY OF ALBUQUERQUE STANDARD DRAWING 2401.



LEGEND

- EXISTING CURB & GUTTER
- NEW RIGHT-OF-WAY
- NEW LOT LINES
- NEW MOUNTABLE CURB & GUTTER
- NEW STANDARD CURB & GUTTER
- 4' DEFERRED SIDEWALK
- NEW 4' SIDEWALK THIS PROJECT
- 50' CROWN TO NO CROWN TRANSITION PER COA STD DWG 2401

TYPICAL 46' RESIDENTIAL STREET SECTION

PAVEMENT DESIGN BASED ON R VALUE = 60
N.T.S.

NOTE: RESIDENTIAL STREET SECTION PER C.O.A. STD. DWG 2405.

TYPICAL 38' RESIDENTIAL STREET SECTION

N.T.S.

A1084/TRACT 12/ DWG/PLANS/A1084-MP 11-07-01

AS BUILT INFORMATION

		DATE
CONTRACTOR		
WORK STAKED BY		
INSPECTOR'S ACCEPTANCE BY		
FIELD VERIFICATION BY		
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

	DATE
RECORDED BY	
NO.	

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGN	JDH	11/01
DESIGNED BY	NHM	11/01
DRAWN BY	DMG	11/01
CHECKED BY		

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:

EL RANCHO GRANDE I - UNIT 1B MASTER PAVING PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	#	#	#

NOTES

VALVE SHUT-OFF PLAN

1. CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200 3 DAYS PRIOR TO NECESSARY SHUT-OFF.
2. VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
3. TURN VALVE OFF APPROXIMATELY 100 FEET SOUTH OF INTERSECTION OF OF 86th STREET SW. & BARBADOS AVENUE SW. AND IN THE INTERSECTION OF BARBADOS AVENUE SW. & BENEVIDES AVENUE SW.

LEGEND

- EXISTING CURB & GUTTER
- TC=39.15 / FL=38.54 — EXISTING TOP OF CURB / EXISTING FLOWLINE
- EX.WL — EXISTING WATERLINE
- EX.SAS — EXISTING SAS
- NEW RIGHT-OF-WAY
- NEW LOT LINES
- NEW RETAINING WALL
- NEW MOUNTABLE CURB & GUTTER
- NEW STANDARD CURB & GUTTER
- 6"WL — NEW WATERLINE
- 8"SAS — NEW SAS
- NEW FIRE HYDRANT
- NEW GATE VALVE
- NEW WATER BEND
- NEW SAS MH
- NEW WATER METERS
- NEW SAS SERVICES
- (2200) ADDRESS

AS BUILT INFORMATION

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

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGN		
DESIGNED BY	JDH	11/01
DRAWN BY	NWH	11/01
CHECKED BY	DMG	11/01

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: *EL RANCHO GRANDE I - UNIT 1B MASTER UTILITY PLAN*

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	#	#	#

A1084/TRACT 12/ DWG/PLANS/A1084-MU 11-01-01

EROSION CONTROL BERM DETAIL

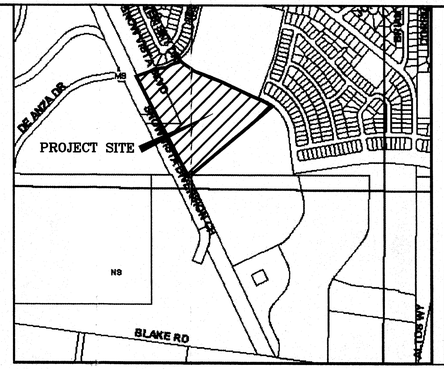
N.T.S.

TYPICAL LOT GRADING DETAIL

NTS

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.



VICINITY MAP ZONE MAP: M-9

LEGEND

5115	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
00.00	EXISTING SPOT ELEVATION
14.50	NEW SPOT ELEVATION
	NEW MOUNTABLE CURB AND GUTTER
	NEW STANDARD CURB AND GUTTER
FP =	FINISHED PAD ELEVATION
	PROPERTY LINE
	PROPOSED SWALE
	NEW RETAINING WALL

NOTES:

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER BOUNDARY.
2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1.3' AND LESS THAN 2.7' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMADATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.

A01084/1084GD50B/11-07-01/ KJS NHM

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS MONUMENT "TRANS"	
Y=1471822.67	
X=354693.45	
G-G=0.99967921	
Δlon=-00°16'42"	
CENTRAL ZONE	
ELEVATION=5118.43	
NAD 1927/SLD 1929	

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUMPHRIES NEW MEXICO 10674 REGISTERED PROFESSIONAL ENGINEER 11-9-01

NO.	DATE	REMARKS	BY

REVISIONS

DESIGN		
DESIGNED BY	JDH	DATE 10/01
DRAWN BY	KJS	DATE 10/01
CHECKED BY	DMG	DATE 10/01

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:

EL RANCHO GRANDE UNIT 1B GRADING AND DRAINAGE PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	M-9	1	#

LEGEND

5115	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
• 00.00	EXISTING SPOT ELEVATION
◦ 14.50	NEW SPOT ELEVATION
	NEW MOUNTABLE CURB AND GUTTER
	NEW STANDARD CURB AND GUTTER
FP =	FINISHED PAD ELEVATION
	PROPERTY LINE
	PROPOSED SWALE
	NEW RETAINING WALL
	DIVERSION DIKE

SECTION Z-Z
NTS

VICINITY MAP ZONE MAP: M-9

DRAINAGE CERTIFICATION w/ SURVEY WORK BY OTHERS
12/02/02

DRAINAGE CERTIFICATION

I, JAMES D. HUGHES, , NMPE 11674 , OF THE FIRM MARK GOODWIN & ASSOCIATES , HEREBY CERTIFY THAT THE PRIVATE PORTION OF THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 1-23-02 EXCEPT AS NOTED BELOW. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ALDRICH LAND , NMPS 7719 , OF THE FIRM TIM ALDRICH LAND SURVEYING . I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 3-5-02 AND ON 11-07-02 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE SURVEY DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF EXCEPT AS NOTED BELOW. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF FINANCIAL GUARANTEES.

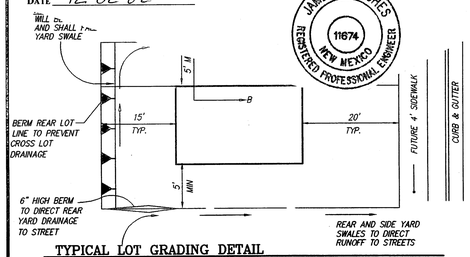
THE FIRST INSPECTION WAS CONDUCTED AFTER COMPLETION OF ROUGH GRADING AND BEFORE ANY INFRASTRUCTURE OR WALL CONSTRUCTION HAD STARTED ON 3-5-02. THE SECOND INSPECTION OCCURRED AFTER HOUSES HAD BEEN COMPLETED ON ALL BUT ONE LOT (LOT 1 BLOCK 1), BUT BEFORE ANY OF THE FRONT YARDS WERE LANDSCAPED. DISPOSITION OF FINAL GRADE IS THE RESPONSIBILITY OF THE BUILDERS LANDSCAPE CONTRACTOR. ALL WALLS HAD BEEN CONSTRUCTED BUT THE RETAINING WALLS IN THE REAR YARDS WERE NOT AVAILABLE FOR INSPECTION BECAUSE ALL HOUSES WERE OCCUPIED.

1. THE SIDE YARD BERM WAS MISSING ON ALL LOTS AND SEVERAL OF THE HOUSES HAD SIDE YARD SIDEWALKS THAT INTERFERED WITH THE PLANED GRADING THERE. FINAL GRADES ARE LEFT TO THE BUILDER.
2. GRADING ON COMMERCIAL TRACT WAS NOT DONE EXCEPT THAT THE DIVERSION BERMS AND SEDIMENT TRAP WERE SUBSTANTIALLY COMPLETE.
3. THE DIVERSION SWALE ON THE WEST AND SOUTH SIDE OF BLOCK 1 WAS MISSING AT BOTH THE FIRST AND SECOND INSPECTION AS REFLECTED BY THE AS-BUILT GRADES FROM THE 1-23-02 SURVEY BY ALS. A BERM AND SWALE WAS OBSERVED AT A THIRD INSPECTION ON 11-22-02 BUT NOT IN ACCORDANCE WITH THE PLAN. INSTEAD OF A SLOPE AWAY FROM THE WALL IN THE FIRST FIVE FEET (5') IMMEDIATELY ADJACENT TO THE WALL AS SHOWN ON THE PLAN A BERM HAD BEEN BUILT SLOPING INTO THE WALL. POSITIVE DRAINAGE WAS EVIDENT EVERYWHERE EXCEPT AT THE REAR OF LOTS 4, 5, 6, 18, 19, AND 20, BLOCK 1, WHERE THE GRADES ARE SO FLAT THAT POSITIVE DRAINAGE CAN NOT BE CONFIRMED BY VISUAL INSPECTION.
4. THE AS-BUILT GRADES ON 1-23-02 ON THE REAR CORNERS OF LOTS 11 THRU 17, BLOCK 1 LOTS 2 THRU 11, AND BLOCK 3 WERE SIGNIFICANTLY LOWER THAN PLANNED. DISPOSITION OF FINAL GRADE THERE IS THE RESPONSIBILITY OF THE BUILDERS LANDSCAPE CONTRACTOR.
5. FRONT LOT CORNERS WERE INTENTIONALLY LEFT LOW DURING ROUGH GRADING AS REFLECTED BY THE AS-BUILT ELEVATIONS BUT THEY ALL APPEARED TO BE IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN AT THE SECOND INSPECTION AND SIDEWALKS WERE COMPLETED EVERYWHERE EXCEPT LOT 1, BLOCK 1.
6. LOW GRADES ON THE SOUTH RIGHT OF WAY LINE ON 86TH STREET PER AS-BUILT ON 1-23-02 WERE CORRECTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN AT THE SECOND INSPECTION, AS WERE HIGHER THEN PLANNED GRADES IN BLOCK 2 NEXT TO BARBADOS AVE.

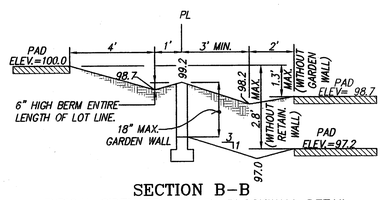
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

(SEAL)
JAMES D. HUGHES, PE / NMPE 11674
DATE 12-02-02

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER



TYPICAL LOT GRADING DETAIL
NTS



SECTION B-B
TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL
NTS

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

NOTES:

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 2.7' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMADATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL

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.

N

50' 25' 0 50' 100'
SCALE: 1" = 50'

A01084/1084GD50B/1-23-02/ NHM

AS BUILT INFORMATION

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

BENCH MARKS

ACS MONUMENT	"TRANS"
Y=1471822.67	
X=354899.45	
G-G=0.99967921	
Lat=-00°16'42"	
CENTRAL ZONE	
ELEVATION=5118.43	
NAD 1927/SLD 1929	

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	

		DATE
DESIGNED BY	JDH	10/01
DRAWN BY	KJS	10/01
CHECKED BY	DMG	10/01

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

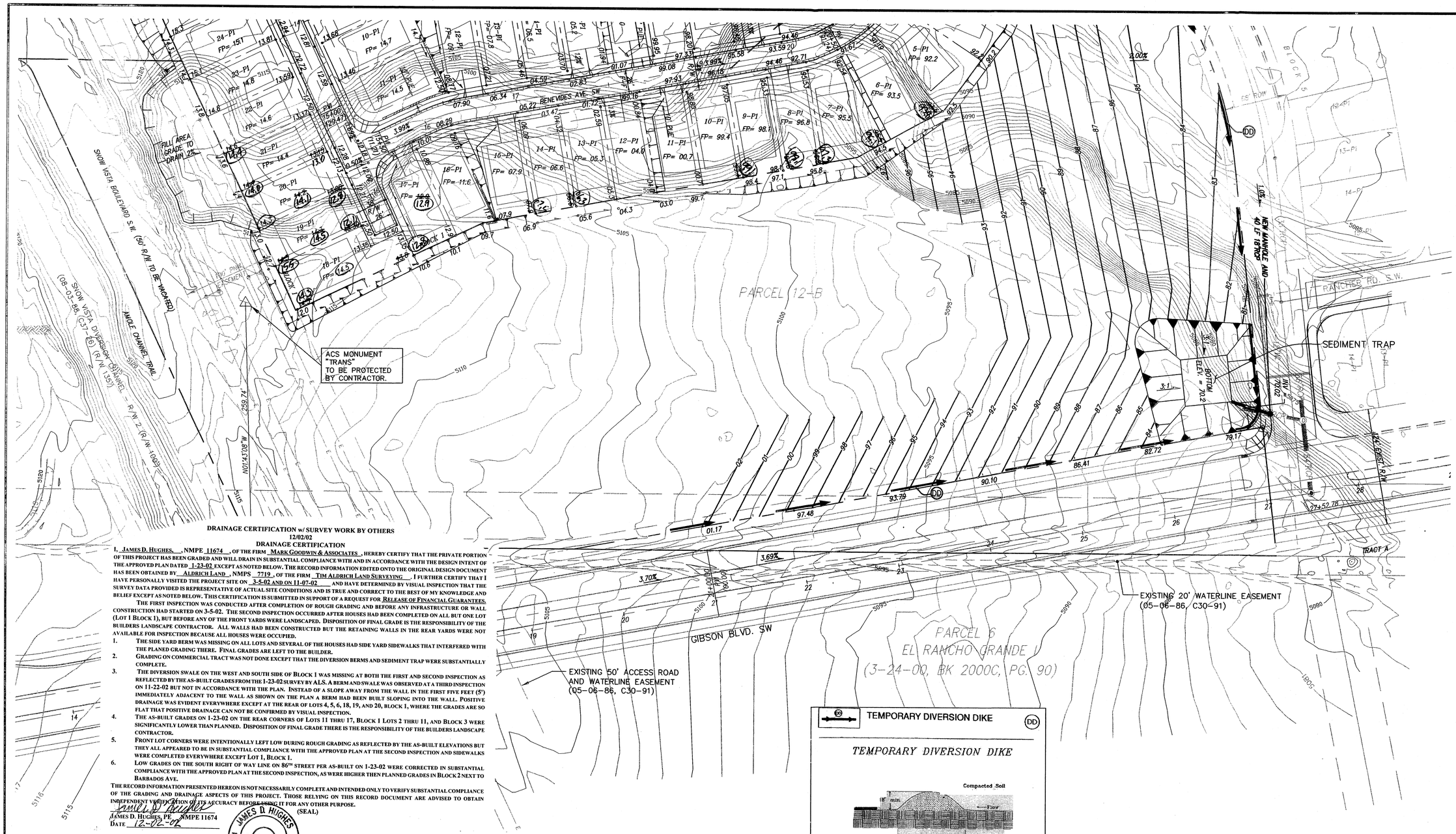
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RECEIVED JAN 08 2003 HYDROLOGY SECTION

TITLE: ENGINEER'S CERTIFICATION
EL RANCHO GRANDE UNIT 2
GRADING AND DRAINAGE PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645687	M-9	1	2



DRAINAGE CERTIFICATION w/ SURVEY WORK BY OTHERS
12/02/02

DRAINAGE CERTIFICATION

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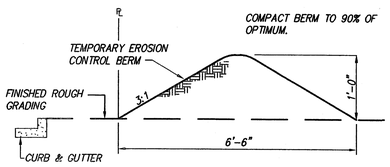
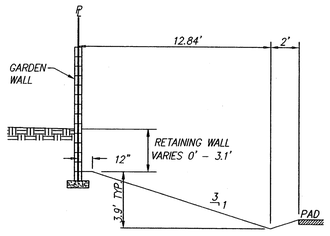
JAMES D. HUGHES, PE NMPE 11674 (SEAL)
DATE 12-02-02

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER



EROSION CONTROL BERM DETAIL

N.T.S.



SECTION A-A
NTS

TEMPORARY DIVERSION DIKE (DD)

TEMPORARY DIVERSION DIKE

Construction Specifications

1. Temporary diversion dikes must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
2. The dike should be adequately compacted to prevent failure.
3. Temporary or permanent seeding and mulch shall be applied to the dike immediately following its construction.
4. The dike should be located to minimize damages by construction operations and traffic.

Maintenance

The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

A01084/1084GD50B/01-23-02/ NHM

AS BUILT INFORMATION

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

BENCH MARKS

NO.	DATE	
		ACS MONUMENT "TRANS"
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		X=354889.45
		C-C=0.99967921
		Δα=-00°16'42"
		CENTRAL ZONE
		ELEVATION=5118.43
		NAD 1927/SLD 1929

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JDH	10/01
DRAWN BY	KJS	10/01
CHECKED BY	DMG	10/01

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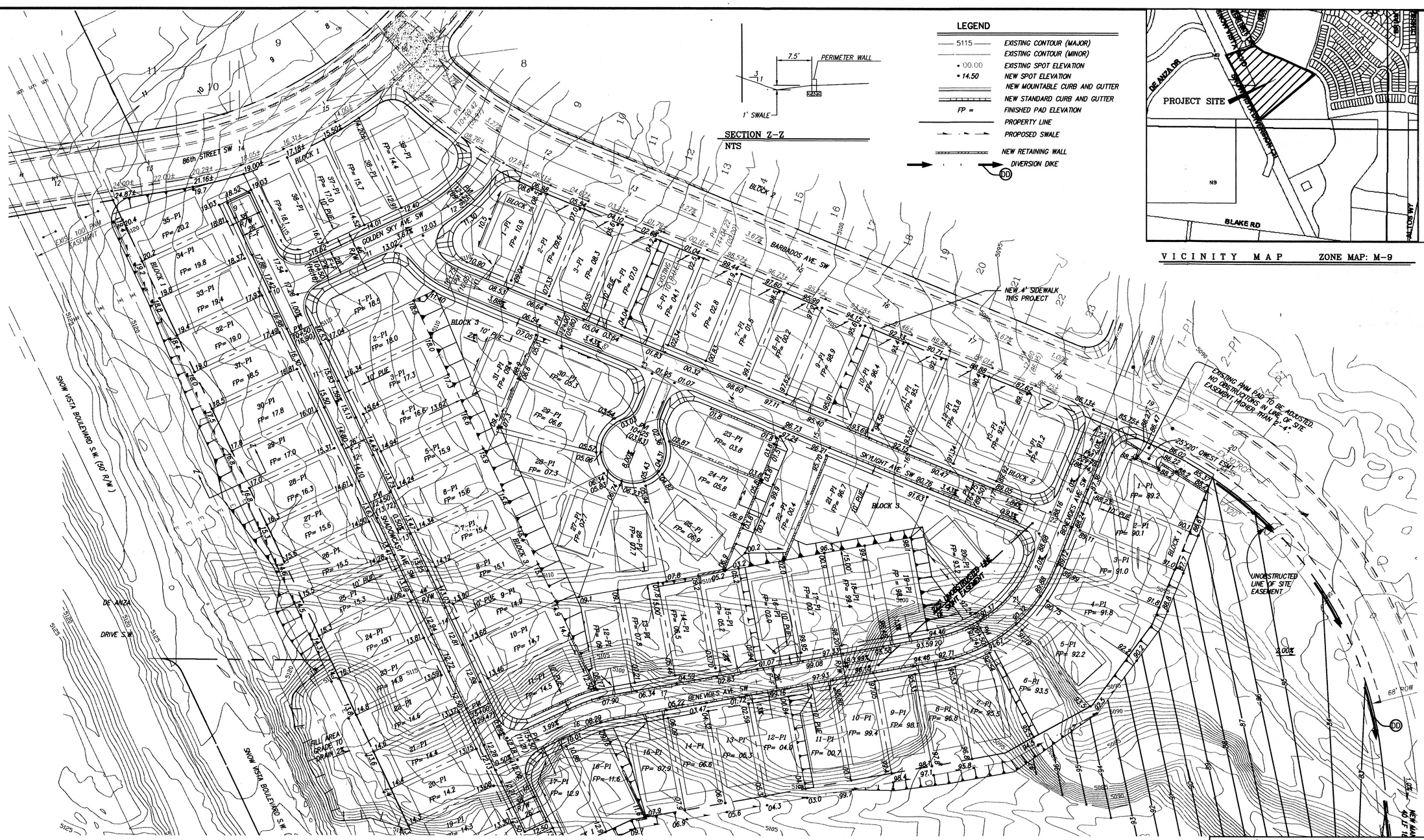
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: ENGINEER'S CERTIFICATION
EL RANCHO GRANDE UNIT 1B
GRADING AND DRAINAGE PLAN

RECEIVED JAN 08 2003 HYDROLOGY SECTION

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645687	M-9	2	2



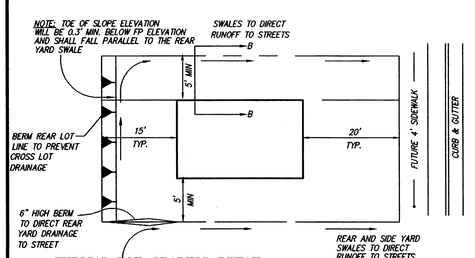
LEGEND

5115	EXISTING CONTOUR (MAJOR)
	EXISTING CONTOUR (MINOR)
• 00.00	EXISTING SPOT ELEVATION
• 14.50	NEW SPOT ELEVATION
	NEW MOUNTABLE CURB AND GUTTER
	NEW STANDARD CURB AND GUTTER
FP =	FINISHED PAD ELEVATION
	PROPERTY LINE
	PROPOSED SWALE
	NEW RETAINING WALL
DD	DIVERSION DIKE

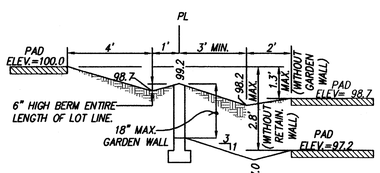
SECTION Z-Z
NTS

VICINITY MAP ZONE MAP: M-9

NOTE: TOE OF SLOPE ELEVATION WILL BE 0.3' MIN. BELOW FP ELEVATION AND SHALL FALL PARALLEL TO THE REAR YARD SWALE



TYPICAL LOT GRADING DETAIL
NTS



SECTION B-B
TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL
NTS

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

NOTES:

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 2.7' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMADATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL

This is the plan that must be satisfied for release of financial guarantees.

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.

N

50' 25' 0 50' 100'
SCALE: 1" = 50'

A01084/1084GD50B/1-23-02/ NHM

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
FIELD DRAWINGS BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS MONUMENT , "TRANS"
Y=1471822.67
X=354899.45
G-C=0.99967921
Δα=-00°16'42"
CENTRAL ZONE
ELEVATION=5118.43
NAD 1927/SLD 1929

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

HAILES D. HIGHSMITH
NEW MEXICO
9384
REGISTERED PROFESSIONAL ENGINEER
1-23-02

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGNED BY	JDH	DATE 10/01
DRAWN BY	KJS	DATE 10/01
CHECKED BY	DMG	DATE 10/01

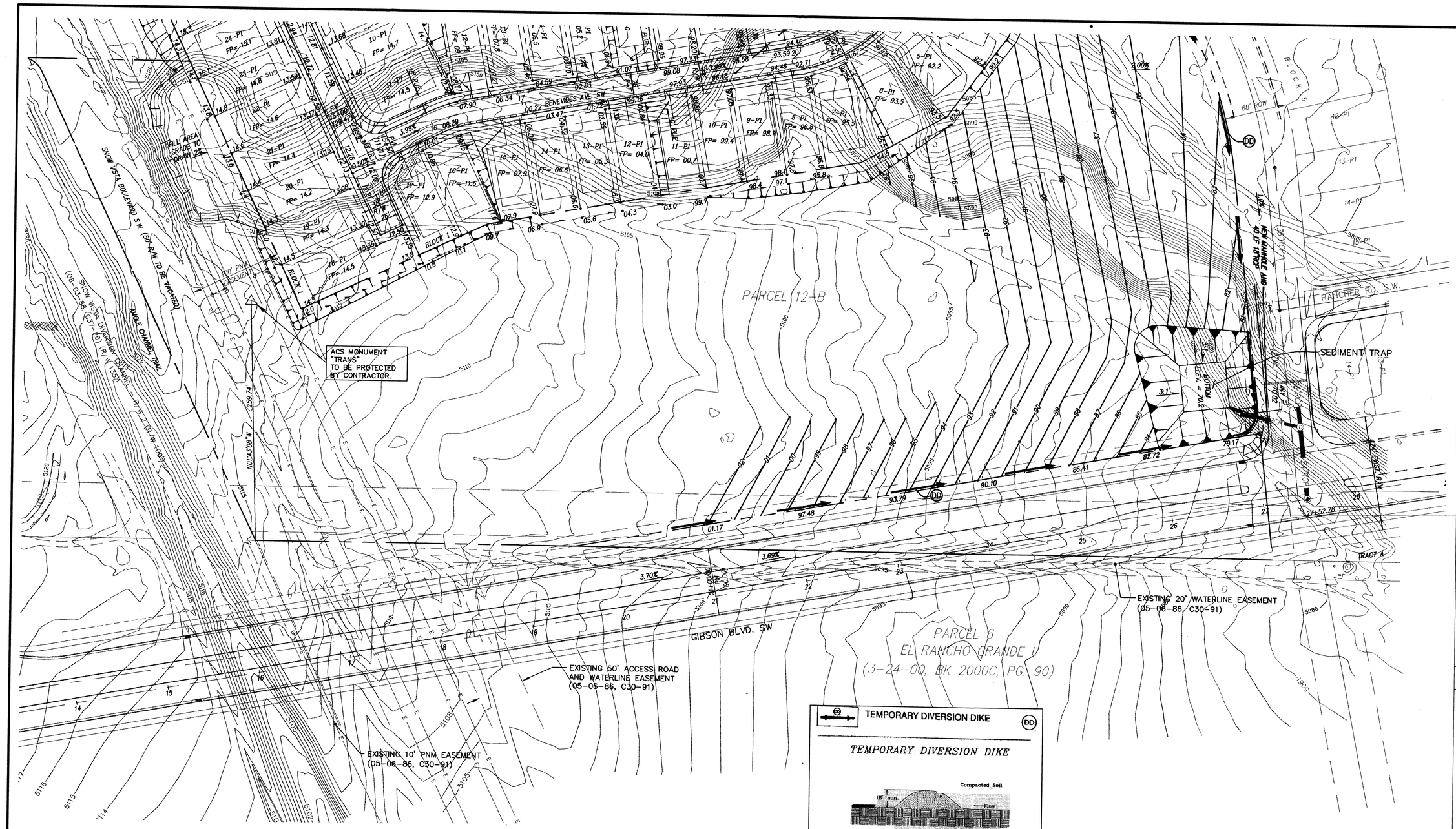
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

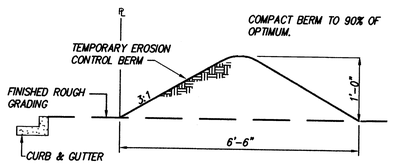
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:
EL RANCHO GRANDE UNIT 1B GRADING AND DRAINAGE PLAN

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

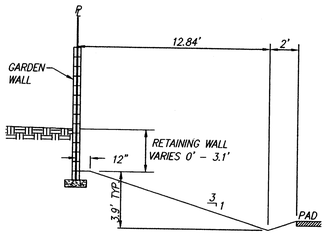
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645687	M-9	1	2





EROSION CONTROL BERM DETAIL

N.T.S.

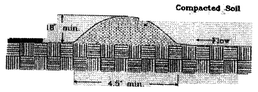


SECTION A-A

NTS

TEMPORARY DIVERSION DIKE (DD)

TEMPORARY DIVERSION DIKE



Construction Specifications

1. Temporary diversion dikes must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
2. The dike should be adequately compacted to prevent failure.
3. Temporary or permanent seeding and mulch shall be applied to the dike immediately following its construction.
4. The dike should be located to minimize damages by construction operations and traffic.

Maintenance

The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.

N

50' 25' 0 50' 100'

SCALE: 1" = 50'

A01084/1084GD50B/01-23-02/ NHM

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS MONUMENT "TRANS"	
Y=1471822.67	
X=354899.45	
G-G=0.99967921	
Δα=-0016'42"	
CENTRAL ZONE	
ELEVATION=5118.43	
NAD 1927/SLD 1929	

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUNGERFORD NEW MEXICO 11975 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JDH	10/01
DRAWN BY	KJS	10/01
CHECKED BY	DMG	10/01

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

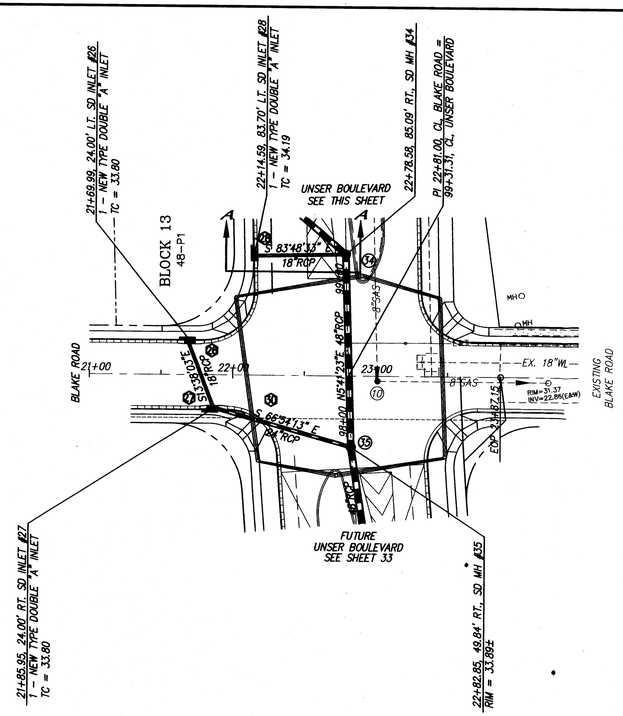
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:

EL RANCHO GRANDE UNIT 1B GRADING AND DRAINAGE PLAN

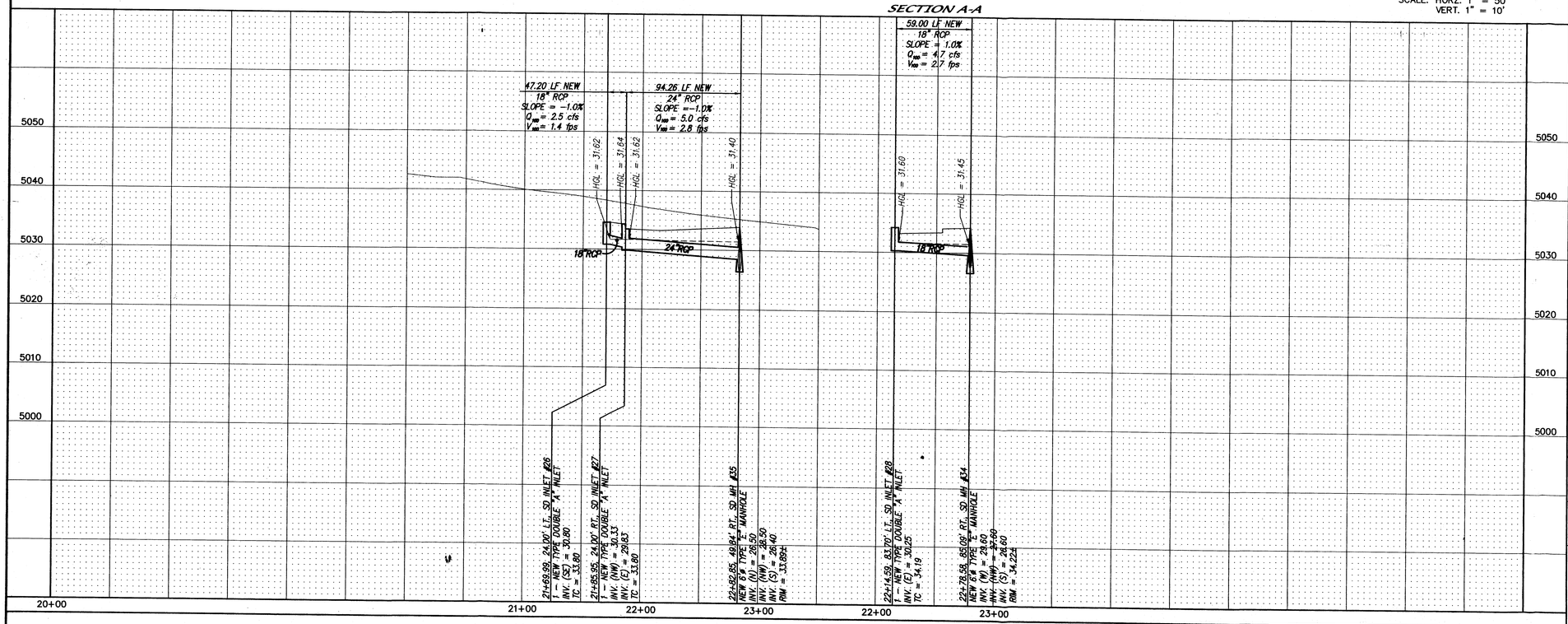
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
645687	M-9	2	2



BLAKE ROAD
STA. 21+00.00 TO STA. 24+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

SECTION A-A



A0124/UNIT4B/A0124-SD2/11-30-01 NHM ACH

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

AS BUILT INFORMATION

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

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH. ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, G-G = 0.99967921(NAD 1927)
"7-H9" LOCATED ON SW COR. OF 98th & SAGE, NAVD 29 EL. = 5147.87

SURVEY INFORMATION

NO.	BY	DATE

FIELD NOTES

ENGINEER'S SEAL

JAMES D. HIGHT
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
10-1-01

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JDH	02/01
DRAWN BY	NHM	02/01
CHECKED BY	DMG	02/01

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

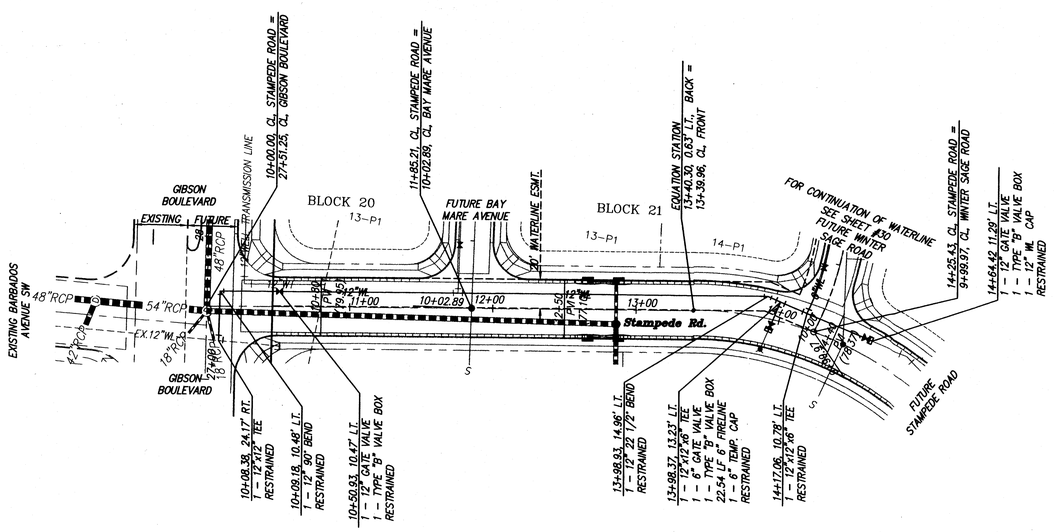
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

EL RANCHO GRADE I, UNIT 4B STORM DRAIN IMPROVEMENTS

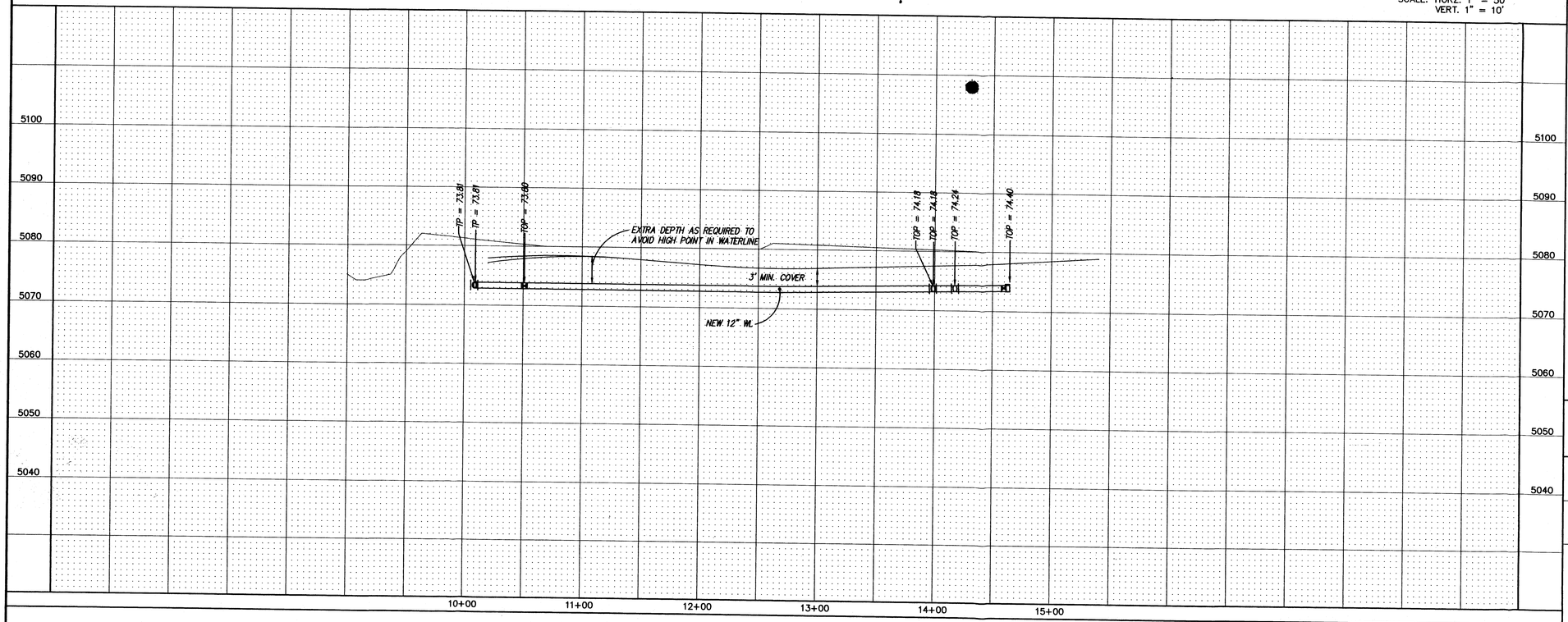
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6456.85	M-9&N-9	27	33



OFFSITE WATERLINE
STA. 10+00.00 TO STA. 11+17.06

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'



NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)					
PIPE SIZE	90°	45°	22.5°	11.25°	VALVE
6"	17'	7'	3'	2'	46'
8"	22'	9'	4'	2'	60'
10"	26'	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 LENGTH FOR TEES (FT.)		
PIPE SIZE	RUN	BRANCH
12"x12"x6"	5'	1'
12"x12"x12"	18'	3'

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

TITLE: EL RANCHO GRANDE I, UNIT 4B
OFFSITE WATERLINE IMPROVEMENTS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
654585	M-9&N-9	29	32

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO-OP. TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO-OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT. X = 354,899.45, Y = 1,471,822.67, C-G = 0.9996792(NAD 1927)
"7-H3" LOCATED ON SW COR. OF 98th & SAGE. NGVD 29 EL. = 5147.87

AS BUILT INFORMATION

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

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JDH	8/01
DRAWN BY	NHM	8/01
CHECKED BY	DMG	8/01

A00124/UNIT4B/A0124-UP21/ 08-28-01 NHM

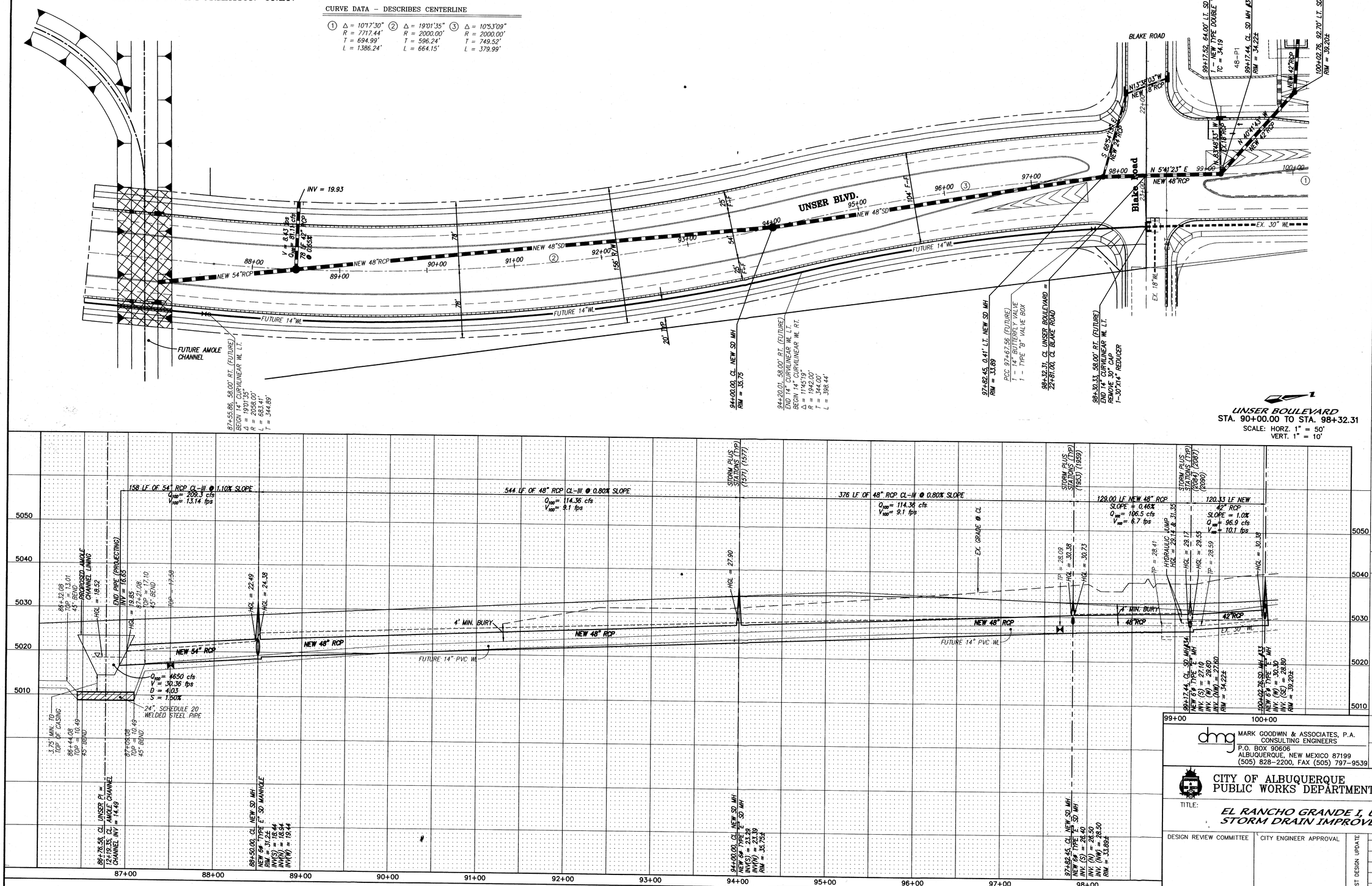
NOTE: ROADWAY IMPROVEMENTS SOUTH OF BLAKE RD. ARE SHOWN FOR INFORMATION ONLY.

CURVE DATA – DESCRIBES CENTERLINE

①	②	③
Δ = 10°17'30"	Δ = 19°01'35"	Δ = 10°53'09"
R = 7717.44'	R = 2000.00'	R = 2000.00'
T = 694.99'	T = 596.24'	T = 749.52'
L = 1386.24'	L = 664.15'	L = 379.99'

NOTES

1. ALL STATIONING IS CENTERLINE STATIONING.



UNSER BOULEVARD
STA. 90+00.00 TO STA. 98+32.31
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

AS BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE
WICRO–FILM INFORMATION	
RECORDED BY	DATE
NO.	

BENCH MARKS

STATION "TRANS" IS LOCATED 6 MI. SOUTHWEST OF DOWNTOWN ALBUQUERQUE, IN THE R.O.W. OF A PLAINS ELECTRIC CO–OP TRANSMISSION LINE. TO REACH STATION FROM INTERSECTION OF CENTRAL AVE. & 98TH ST. SW, GO SOUTH ON 98TH ST. 1.2 MI. TO JUNCTION WITH GIBSON BLVD. & SNOW VISTA BLVD., THEN SOUTHEAST ALONG SNOW VISTA AND CO–OP ELECTRIC TRANSMISSION LINE 0.85 MI. TO PYLON NUMBERED "52". STATION IS JUST EAST OF THIS POINT.
X = 354,899.45, Y = 1,471,822.67, C–G = 0.99967921(NAD 1927)
"7–H9" LOCATED ON SW COR. OF 98th & SAGE, NAVD 29 EL. = 5147.87

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 12-1-01

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JDH	02/01
DRAWN BY	NHM	02/01
CHECKED BY	DMG	02/01

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:

EL RANCHO GRANDE I, UNIT 4B STORM DRAIN IMPROVEMENTS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
6456.85	M-9&N-9	33	33

98071BRB/NEW/8071–PP1/12–03–01/NHM ACH