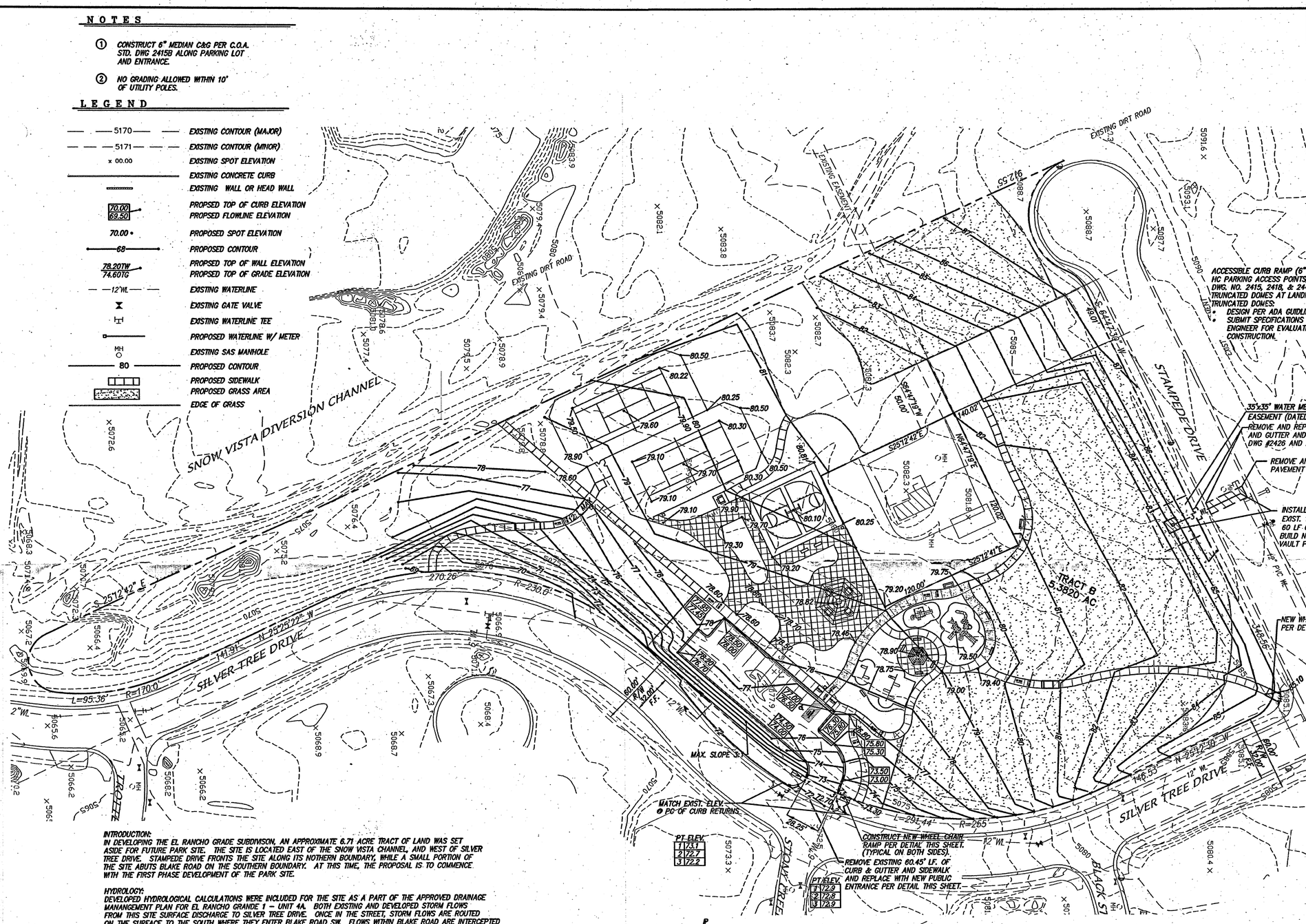
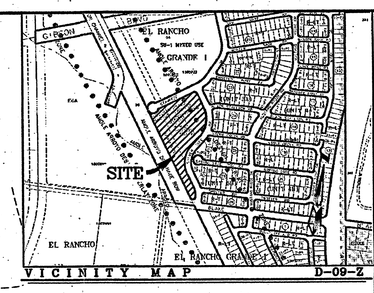
NOTES

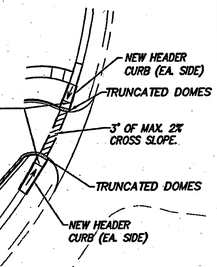
1. CONSTRUCT 6" MEDIAN C&G PER C.O.A. STD. DWG 2415B ALONG PARKING LOT AND ENTRANCE.
2. NO GRADING ALLOWED WITHIN 10' OF UTILITY POLES.

LEGEND

5170	EXISTING CONTOUR (MAJOR)
5171	EXISTING CONTOUR (MINOR)
x 00.00	EXISTING SPOT ELEVATION
	EXISTING CONCRETE CURB
	EXISTING WALL OR HEAD WALL
70.00 / 69.50	PROPSED TOP OF CURB ELEVATION / PROPSED FLOWLINE ELEVATION
70.00 •	PROPOSED SPOT ELEVATION
68	PROPOSED CONTOUR
78.20TW / 74.60TG	PROPSED TOP OF WALL ELEVATION / PROPSED TOP OF GRADE ELEVATION
12"WL	EXISTING WATERLINE
	EXISTING GATE VALVE
	EXISTING WATERLINE TEE
	PROPOSED WATERLINE W/ METER
MH	EXISTING SAS MANHOLE
80	PROPOSED CONTOUR
	PROPOSED SIDEWALK
	PROPOSED GRASS AREA
	EDGE OF GRASS

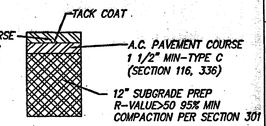






DETAIL OF PUBLIC ENTRANCE

SCALE: NTS



PARKING LOT PAVING SECTION

SCALE: NTS

NOTE:

EXISTING UTILITY LINES ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR TO VERIFY ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION.

INTRODUCTION:
IN DEVELOPING THE EL RANCHO GRADE SUBDIVSON, AN APPROXIMATE 6.71 ACRE TRACT OF LAND WAS SET ASIDE FOR FUTURE PARK SITE. THE SITE IS LOCATED EAST OF THE SNOW VISTA CHANNEL, AND WEST OF SILVER TREE DRIVE. STAMPEDE DRIVE FRONTS THE SITE ALONG ITS NOTHERN BOUNDARY, WHILE A SMALL PORTION OF THE SITE ABUTS BLAKE ROAD ON THE SOUTHERN BOUNDARY. AT THIS TIME, THE PROPOSAL IS TO COMMENCE WITH THE FIRST PHASE DEVELOPMENT OF THE PARK SITE.

HYDROLOGY:
DEVELOPED HYDROLOGICAL CALCULATIONS WERE INCLUDED FOR THE SITE AS A PART OF THE APPROVED DRAINAGE MANANGEMENT PLAN FOR EL RANCHO GRANDE 1 – UNIT 4A. BOTH EXISTING AND DEVELOPED STORM FLOWS FROM THIS SITE SURFACE DISCHARGE TO SILVER TREE DRIVE. ONCE IN THE STREET, STORM FLOWS ARE ROUTED ON THE SURFACE TO THE SOUTH WHERE THEY ENTER BLAKE ROAD SW. FLOWS WITHIN BLAKE ROAD ARE INTERCEPTED VIA EXISTING DROP INLETS LOCATED BETWEEN SILVER TREE DRIVE AND UNSER BLVD.

SUMMARY OF AHYMO CALCULATED FLOWS FROM THE PROPOSED SILVER TREE PARK SITE:

EXISTING CONDITIONS

70%A, 28%C, 2%D
Q(100yr, 6hr) = 11.44 cfs

DEVELOPED CONDITIONS

70%B, 10%C, 20%D
Q(100yr, 6hr) = 16.96 cfs

SUMMARY:
AS INDICATED IN THE EL RANCHO GRANDE 1, UNIT 4A DRAINAGE REPORT, THE MAXIMUM ALLOWABLE RUNOFF FROM THIS PARK SITE IS 17.96 cfs. WITH DEVELOPMENT OF PARK SITE, THE PROPOSED RUNOFF RATE IS 16.96 cfs. THERE WILL BE NO ADVERSE IMPACTS DOWNSTREAM OF THE SITE AS A RESULT OF THIS PARK DEVELOPEMENT.

SECTION A–A

SCALE: NTS

HC Ramp at Intersection

SCALE: NTS

A4026STP/A4026GD4.dwg/11-14-07 KJS SPS DER CAR SLV RDQ

AS BUILT INFORMATION

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

MICRO-FILM INFORMATION

RECORDED BY
NO.

BENCH MARKS

ACS MONUMENT "HV-111" HAVING AN ELEVATION OF 5103.53 FEET.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JOHN K. MacKENZIE NEW MEXICO 11819 REGISTERED PROFESSIONAL ENGINEER

10-1-07

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE
DESIGNED BY	JSD	06/04
DRAWN BY	DER	06/04
CHECKED BY	DMG	06/04

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:
SILVER TREE PARK
UTILITY & GRADING & 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
728591	N-9-Z	13	14

RECEIVED
NOV 19 2009
HYDROLOGY SECTION

P:\AGAUOBS\A4026stp\A4026gd4.dwg, 11/14/2007 11:05:30 AM, PLOTTED BY RDQ

NOTES

1. CONSTRUCT 6" MEDIAN C&G PER C.O.A. STD. DWG 2415B ALONG PARKING LOT AND ENTRANCE.
2. NO GRADING ALLOWED WITHIN 10' OF UTILITY POLES.

LEGEND

- 5170 — EXISTING CONTOUR (MAJOR)
- 5171 — EXISTING CONTOUR (MINOR)
- x 00.00 — EXISTING SPOT ELEVATION
- EXISTING CONCRETE CURB
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- MH — EXISTING SAS MANHOLE
- 80 — PROPOSED CONTOUR
- PROPOSED SIDEWALK
- PROPOSED GRASS AREA
- EDGE OF GRASS

DRAINAGE CERTIFICATION

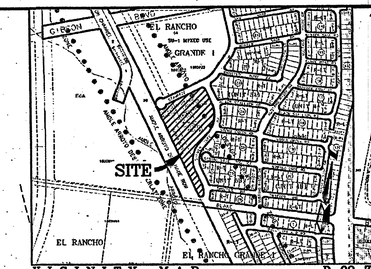
I, JOHN M. MACKENZIE, NMPE 11619, OF THE FIRM MARK GOODWIN & ASSOCIATES, PA, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN, DATED October 1, 2007. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY Rusty Hugg, NMPS 9750 OF THE FIRM Surv-Tek, Inc. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 11/03/09, 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. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR GRADING CERTIFICATION APPROVAL.

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.

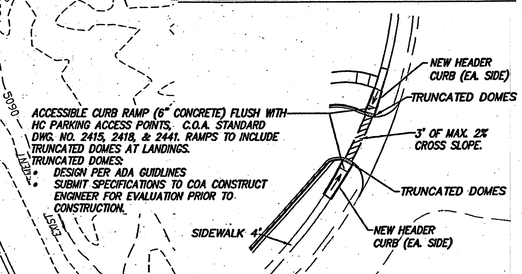
John MacKenzie
JOHN M. MACKENZIE NMPE 11619

11-18-09
DATE

JOHN M. MACKENZIE NEW MEXICO 11619 REGISTERED PROFESSIONAL ENGINEER



VICINITY MAP D-09-Z



ACCESSIBLE CURB RAMP (6" CONCRETE) FLUSH WITH HC PARKING ACCESS POINTS. C.O.A. STANDARD DWG. NO. 2415, 2418, & 2441. RAMPS TO INCLUDE TRUNCATED DOMES AT LANDINGS.
TRUNCATED DOMES:
- DESIGN PER ADA GUIDLINES
- SUBMIT SPECIFICATIONS TO COA CONSTRUCT ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.

DETAIL OF PUBLIC ENTRANCE

SCALE: NTS

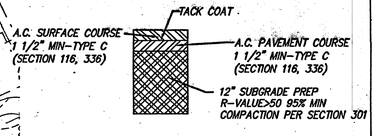
35'x35' WATER METER VAULT EASEMENT (DATED 3/13/07, BK A 133, PAGE 8942)

REMOVE AND REPLACE 10' OF CURB AND GUTTER AND SIDEWALK PER COA DWG #2426 AND 2430.

REMOVE AND REPLACE 28 SY. OF PAVEMENT PER COA DWG #2465.

INSTALL NEW WATER SERVICE OFF EXIST. 12" WATERLINE USING 60 LF OF 3" PVC BUILD NEW WATER METER VAULT PER CITY STD.: #2370.

NEW WHEEL CHAIR RAMP PER DETAIL THIS SHEET.



PARKING LOT PAVING SECTION

SCALE: NTS

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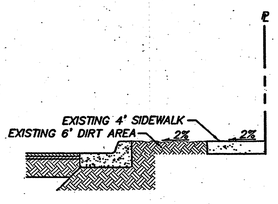
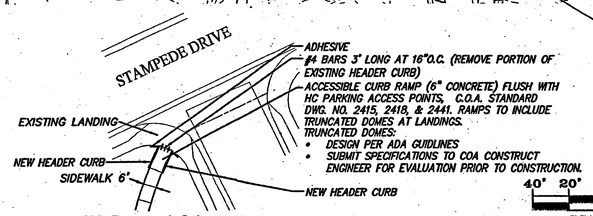


SECTION A–A

SCALE: NTS



HC Ramp at Intersection

SCALE: NTS

40' 20' 0 40' 80'
SCALE: 1" = 40'

A4026STP/A4026GD4.dwg/11-14-07 KJS SPS DER CAR SLV RDQ

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

BENCH MARKS
ACS MONUMENT "HV-111" HAVING AN ELEVATION OF 5103.53 FEET.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JOHN M. MACKENZIE NEW MEXICO 11619 REGISTERED PROFESSIONAL ENGINEER
10-1-07

NO.	DATE	REMARKS	BY
		REVISIONS	

		DATE	DATE	DATE
DESIGNED BY	JSD	06/04		
DRAWN BY	DER	06/04		
CHECKED BY	DMG	06/04		

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

TITLE:
SILVER TREE PARK
UTILITY & GRADING & 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
728591		13	14

CIP W.O. David Flores

Desig. approved 12/22/03

RECEIVED DEC 02 2009 HYDROLOGY SECTION

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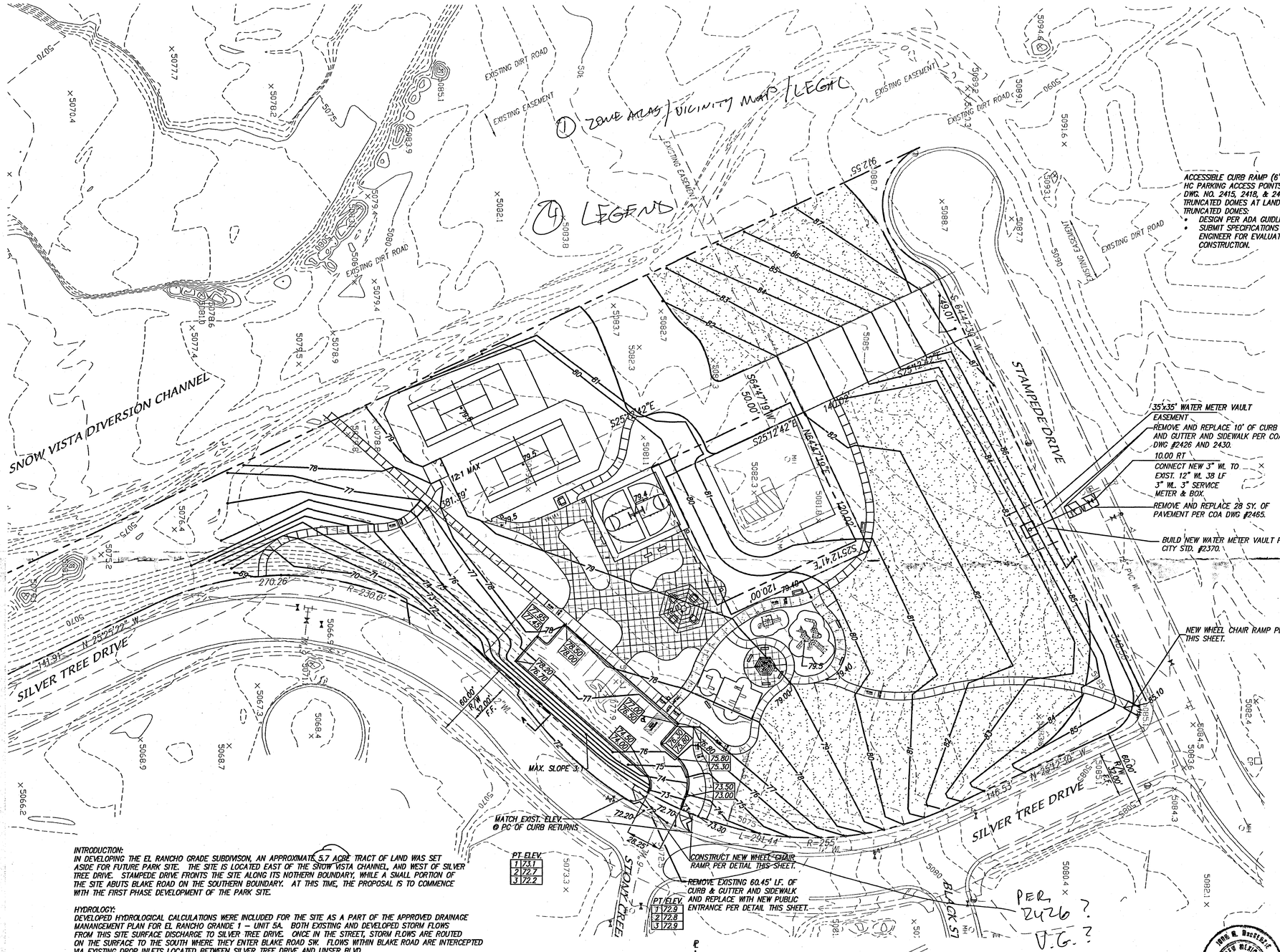

NOTES

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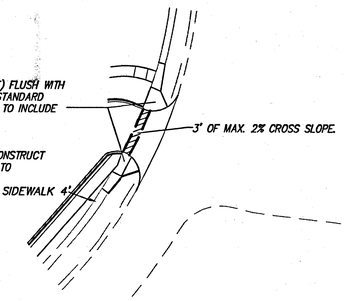
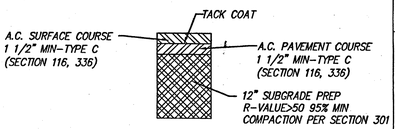
2. NO GRADING ALLOWED WITHIN 10' OF UTILITY POLES.



HC Ramp at Intersection

SCALE: NTS



PARKING LOT PAVING SECTION

SCALE: NONE

LEGEND

5170	EXISTING CONTOUR (MAJOR)
5171	EXISTING CONTOUR (MINOR)
× 00.00	EXISTING SPOT ELEVATION
	EXISTING CONCRETE CURB
	EXISTING WALL OR HEAD WALL
70.00 / 69.50	PROPSED TOP OF CURB ELEVATION / PROPSED FLOWLINE ELEVATION
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12"WL	EXISTING WATERLINE
	EXISTING GATE VALVE
	EXISTING WATERLINE TEE
	PROPOSED WATERLINE W/ METER
MH	EXISTING SAS MANHOLE
80	PROPOSED CONTOUR

INTRODUCTION:
IN DEVELOPING THE EL RANCHO GRADE SUBDIVISON, AN APPROXIMATE 5.7 ACRE TRACT OF LAND WAS SET ASIDE FOR FUTURE PARK SITE. THE SITE IS LOCATED EAST OF THE SNOW VISTA CHANNEL, AND WEST OF SILVER TREE DRIVE. STAMPEDE DRIVE FRONTS THE SITE ALONG ITS NOTHERN BOUNDARY, WHILE A SMALL PORTION OF THE SITE ABUTS BLAKE ROAD ON THE SOUTHERN BOUNDARY. AT THIS TIME, THE PROPOSAL IS TO COMMENCE WITH THE FIRST PHASE DEVELOPMENT OF THE PARK SITE.

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SUMMARY OF AHYMO CALCULATED FLOWS FROM THE PROPOSED SILVER TREE PARK SITE:

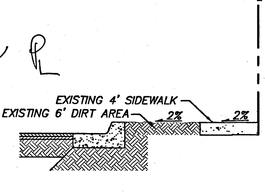
EXISTING CONDITIONS
70%A, 28%C, 2%D
Q(100yr, 6hr) = 13.14 cfs

DEVELOPED CONDITIONS
10%A, 60%B, 15%C, 15%D
Q(100yr, 6hr) = 18.12 cfs

SUMMARY:
AS INDICATED IN THE EL RANCHO GRANDE 1, UNIT 5A REPORT, WITHE DEVELOPMENT OF THE SILVER TREE PARK SITE, THERE WILL BE NO ADVERSE IMPACTS DOWNSTREAM OF THE SITE.

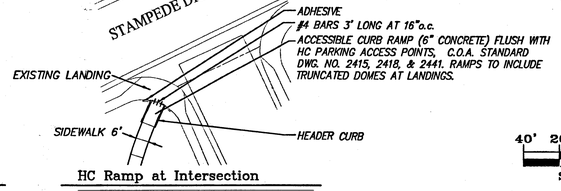
PT. ELEV.	
1	73.1
2	72.7
3	72.2

PT. ELEV.	
1	72.9
2	72.8
3	72.9



SECTION A–A

SCALE: NTS



HC Ramp at Intersection

SCALE: NTS

John E. Bustamante
NEW MEXICO
11810
REGISTERED PROFESSIONAL ENGINEER
01-31-07

40' 20' 0 40' 80'

SCALE: 1" = 40'

A4026STP/A4026GD4.dwg/01-31-07 KJS SPS DER CAR SLV

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

BENCH MARKS
ACS MONUMENT "HV-111" HAVING AN ELEVATION OF 5103.53 FEET.

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

REVISIONS

		DATE
DESIGNED BY	JSD	06/04
DRAWN BY	DER	06/04
CHECKED BY	DMG	06/04

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

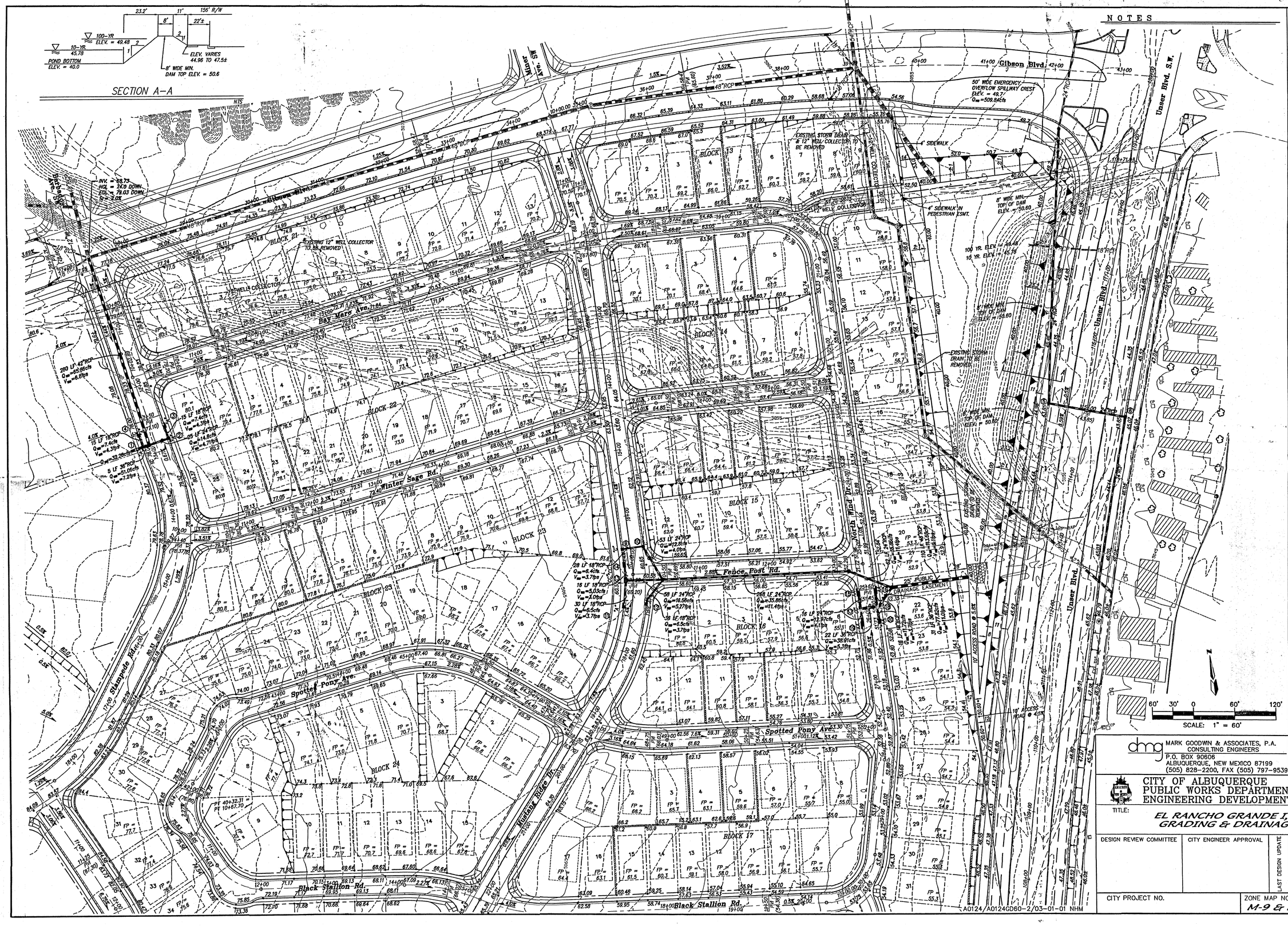
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE:
SILVER TREE PARK
UTILITY & GRADING & 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
728591	N-9-Z	13	14

RECEIVED
FEB 01 2007
HYDROLOGY SECTION



A0124/A0124GD60-2/03-01-01 NHM

AS BUILT INFORMATION

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

BENCH MARKS

STATION "TRANS" IS LOCATED 8 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. STATION MARK IS STANDARD USC&GC BRASS TABLET STAMPED "TRANS, 1969". SET IN TOP OF CONCRETE POST PROJECTING 0.3 FT.

SURVEY INFORMATION

NO.	DATE	FIELD NOTES BY

ENGINEER'S SEAL

JAMES D. HINKLE
NEW MEXICO
7524
REGISTERED PROFESSIONAL ENGINEER
3-2-98

NO.	DATE	REMARKS	BY
		REVISIONS	

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

dmg
MARK GOODWIN & ASSOCIATES, P.A.
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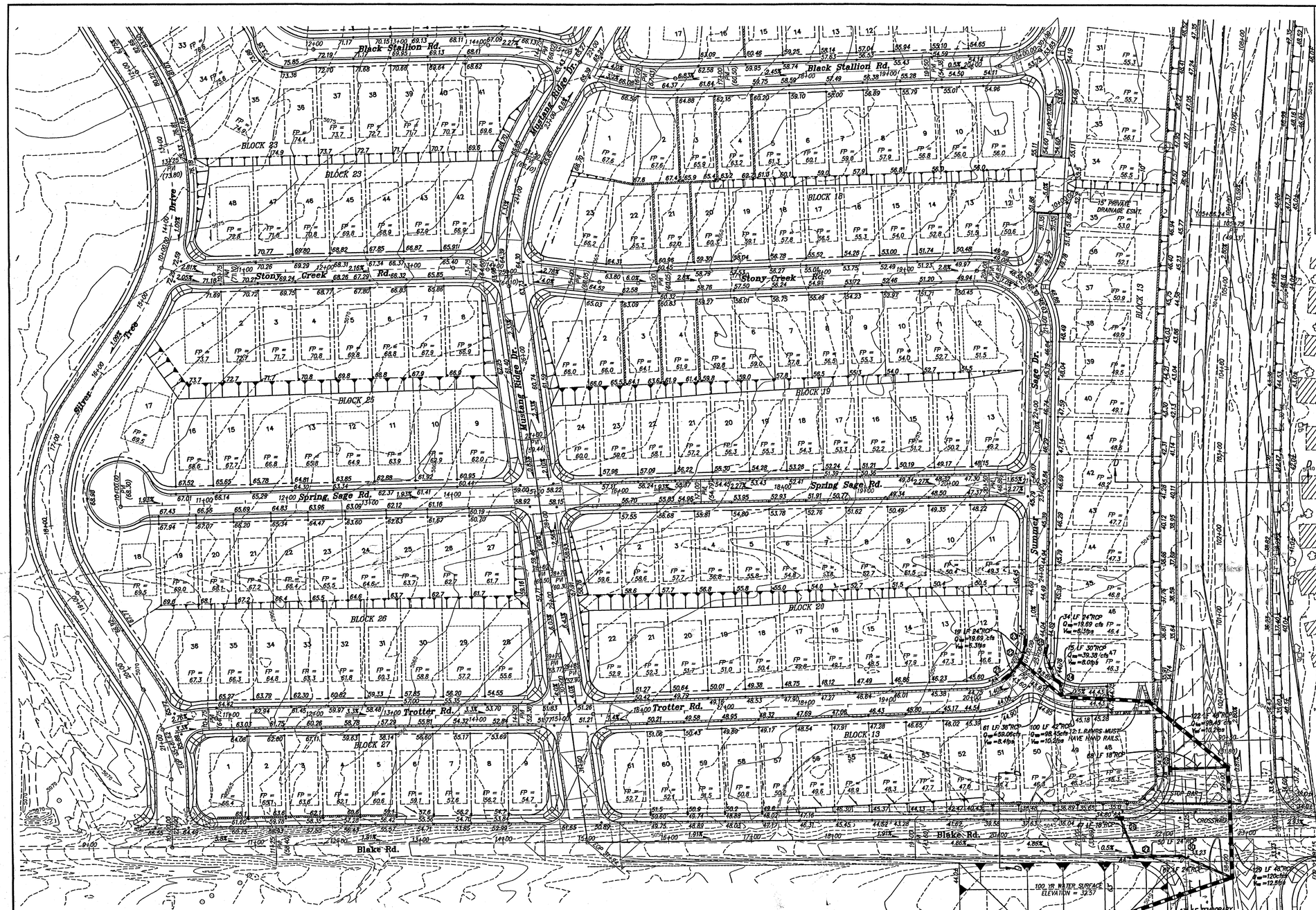
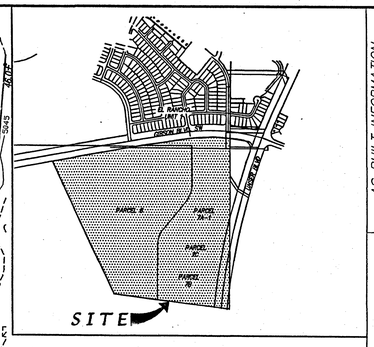
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EL RANCHO GRANDE I, UNIT 4
GRADING & DRAINAGE PLAN

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

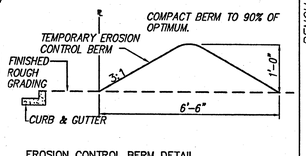
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	M-9 & N-9	1	3





VICINITY MAP ZONE MAP: M-9 & N-9

NTS

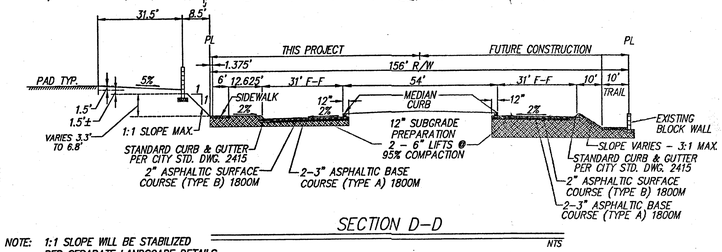


EROSION CONTROL BERM DETAIL

N.T.S.

EROSION CONTROL NOTES

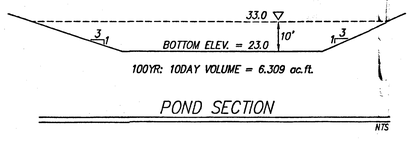
1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND SHALL 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 AS PER DETAIL, THIS SHEET AND BY WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOW LINE ELEVATIONS.



SECTION D-D

NTS

NOTE: 1:1 SLOPE WILL BE STABILIZED PER SEPARATE LANDSCAPE DETAILS.



POND SECTION

NTS

A00124/A0124GD60-1/03-02-01 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

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. STATION MARK IS STANDARD USC&GC BRASS TABLET STAMPED "TRANS, 1969", SET IN TOP OF CONCRETE POST PROJECTING 0.3 FT.

SURVEY INFORMATION

NO.	DATE	FIELD NOTES BY

ENGINEER'S SEAL

JAMES D. HUGHES JR. NEW MEXICO REGISTERED PROFESSIONAL ENGINEER 11674

NO.	DATE	REMARKS	BY

REVISIONS

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

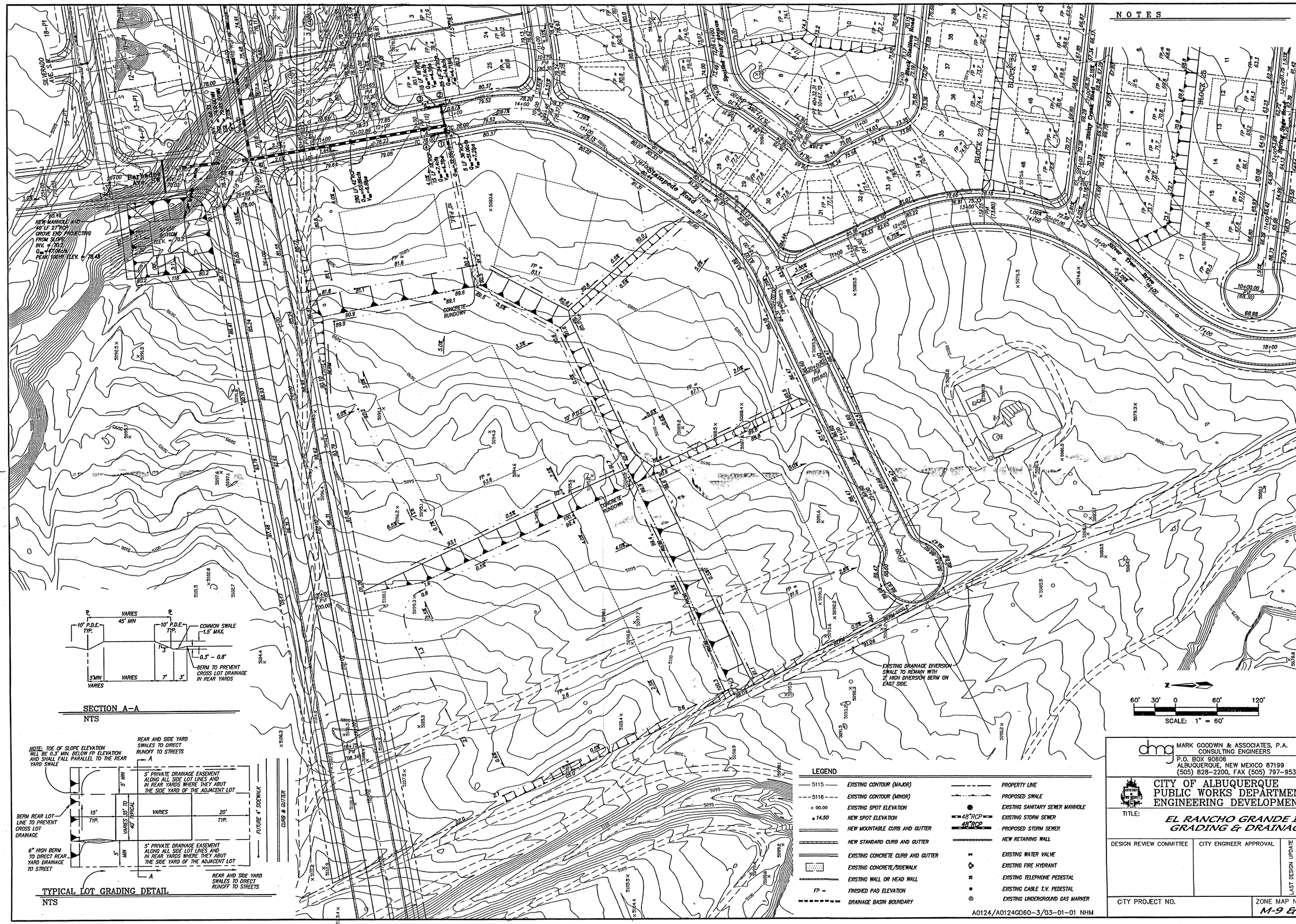
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *EL RANCHO GRANDE I, UNIT 4*
GRADING & 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 & N-9	2	3



SECTION A–A

NTS

TYPICAL LOT GRADING DETAIL

NTS

NOTES

LEGEND

5115 — EXISTING CONTOUR (MAJOR)	PROPERTY LINE
5116 — EXISTING CONTOUR (MINOR)	PROPOSED SWALE
x 00.00 EXISTING SPOT ELEVATION	EXISTING SANITARY SEWER MANHOLE
• 14.50 NEW SPOT ELEVATION	48"RCP EXISTING STORM SEWER
NEW MOUNTABLE CURB AND GUTTER	48"RCP PROPOSED STORM SEWER
NEW STANDARD CURB AND GUTTER	NEW RETAINING WALL
EXISTING CONCRETE CURB AND GUTTER	EXISTING WATER VALVE
EXISTING CONCRETE/SIDEWALK	EXISTING FIRE HYDRANT
EXISTING WALL OR HEAD WALL	EXISTING TELEPHONE PEDESTAL
FP = FINISHED PAD ELEVATION	EXISTING CABLE T.V. PEDESTAL
DRAINAGE BASIN BOUNDARY	EXISTING UNDERGROUND GAS MARKER

A0124/A0124GD60–3/03–01–01 NHM

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
AS-BUILT VERIFICATION BY		DATE
AS-BUILT CORRECTED BY		DATE

BENCH MARKS

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SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 14574 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

REVISIONS

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

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

EL RANCHO GRANDE I, UNIT 4 GRADING & 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 & N-9	3	3