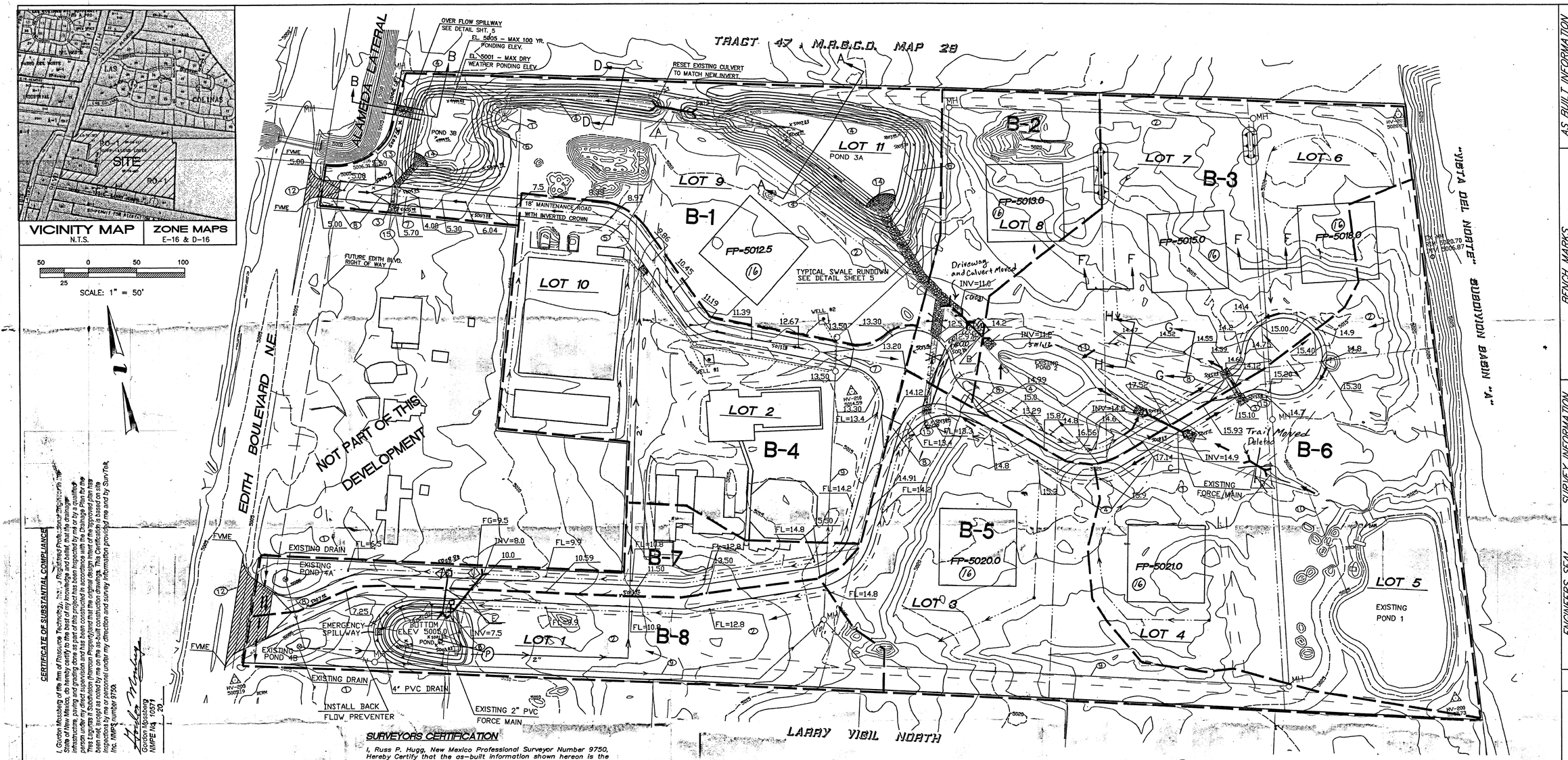

CERTIFICATE OF SUBSTANTIAL COMPLIANCE

I, Gordon Mossberg of the firm of Resource Technology, Inc., a Registered Professional Engineer in the State of New Mexico, do hereby certify to the best of my knowledge and belief, that the drainage improvements for Tres Lagunas II Subdivision (Petroglyph Property) have been constructed in accordance with the Drainage Plan for the project under my direct supervision and has been constructed in accordance with the Drainage Plan for the approved plan 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 me and by Sun-Tek, Inc. NMPE number 9750.

Gordon Mossberg
Gordon Mossberg
NMPE No. 10571
_____, 20__

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, Hereby Certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
AUGUST 20, 2004

PROFESSIONAL SURVEYOR STATE OF NEW MEXICO No. 9750 RUSS P. HUGG

DRAINAGE SUMMARY

EXISTING CONDITIONS

BASIN	AREA (Ac)	LAND TREATMENT %A	%B	%C	%D	PEAK Q (CFS) 6-HR 10YR	100YR	VOLUME (AC-FT) 24-HR 10YR	100YR
	14.9	80	5	10	5	10.1	28.5	0.294	0.945

FUTURE CONDITIONS

BASIN	AREA (Ac)	LAND TREATMENT %A	%B	%C	%D	PEAK Q (CFS) 6-HR 10YR	100YR	VOLUME (AC-FT) 24-HR 10YR	100YR	10-DAY 100YR
B-1	2.66	80	5	10	5	1.80	5.10	0.053	0.151	0.169
B-2	0.83	40	30	10	20	1.03	2.16	0.032	0.069	0.092
B-3	2.58	40	30	10	20	3.20	6.63	0.098	0.202	0.281
B-4	2.28	10	20	30	40	4.54	7.85	0.145	0.266	0.388
B-5	1.66	40	30	10	20	2.05	4.28	0.063	0.137	0.181
B-6	3.10	75	5	10	10	2.53	6.40	0.077	0.196	0.238
								NORTHWEST SUBTOTAL 10-DAY VOLUME		1.314
B-7	0.54	0	64	0	36	1.06	1.92	0.034	0.064	0.093
B-8	1.24	36	36	15	13	1.42	3.06	0.041	0.095	0.116
								SOUTHWEST SUBTOTAL 10-DAY VOLUME		0.209
								SITE TOTAL 10-DAY VOLUME		1.523

STORAGE SUMMARY

POND	STORAGE VOLUME (Ac – Ft)
3A	0.787
3B	0.598
SUB-TOTAL– NORTHWEST	1.39

POND	STORAGE VOLUME (Ac – Ft)
4A	0.022
4B	0.060
4C	0.217
SUB-TOTAL– SOUTHWEST	0.299
TOTAL– SITE	1.69

LEGEND

- BASIN BOUNDARY
- DRAINAGE BASIN — B-1
- EXISTING DRAINAGE FLOW DIRECTION
- PROPOSED DRAINAGE SWALE
- DEVELOPED FLOW PATTERNS
- FLOWLINE ELEVATION — FL
- EXIST. CONTOUR — 75
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION — 73.0
- EXISTING FENCE
- EXISTING CULVERT
- PROPOSED CULVERT
- PROPERTY LINE
- ROAD EASEMENT LIMIT
- GRAVEL ROAD
- FIELD VERIFY/MATCH EXISTING — FVME
- EXISTING BUILDING/STRUCTURE

CULVERT	PIPE SIZE in.	INVERT ENT. EL. ft.	INVERT OUT EL. ft.	DESIGN Q cfs.	CULVERT CAPACITY cfs.	HEADWATER AVAILABLE in.
A	24	~~5.5~~ 1.31	~~5.0~~ 1.21	*	17.8	36
B	24	~~12.5~~ 11.0	~~12.0~~ 10.81	14.48	17.8	36
C	18	~~14.5~~ 15.11	~~13.5~~ 14.41	6.40	9.5	30
D	18	19	18.5	6.40	9.5	30
E	12	~~8~~ 8.80	~~7.5~~ 7.71	1.92	4.5	24

* EQUALIZING PIPE

KEYED NOTES

1. EXISTING LIFT STATIONS & UNDERGROUND FORCE MAINS TO REMAIN.
2. EXISTING DRAINAGE PATHS TO REMAIN IN NATURAL STATE.
3. DRIVEWAY TURNOUTS & VALLEY GUTTERS SHALL CONFORM TO CITY OF ALBUQUERQUE, STANDARD DWGS. 2420, & 2426 TYPICAL SLOPES 3H:1V.
4. MAINTENANCE ROAD SHALL HAVE 9' LANES IN 25' EASEMENT.
5. TYPICAL SLOPES 5H:1V.
6. TRANSITION TO INVERTED CROWN ROAD SECTION.
7. TRANSITION TO 2% CROWN ROAD SECTION COA STD DWG 2401.
8. EXISTING IRRIGATION LINE.
9. EXISTING RECIRCULATION LINE.
10. TRANSITION SWALE TO SURFACE DRAIN INTO POND 2
11. CONSTRUCTION OF PERMANENT TURNOUTS FOR EDITH BLVD, SHALL BE CONSISTENT WITH FUTURE EDITH BLVD IMPROVEMENTS USE TEMPORARY ASPHALT PAVING FOR INTERIM CONDITIONS. CONSTRUCT TEMPORARY PAVING TO MATCH EDGE OF EXISTING PAVEMENT, FORMED BY NEAT CUT LINE ALONG SOUND ASPHALT–NO SPALLING. COMPACT BASE MATERIAL TO 95% PROCTOR PRIOR TO ASPHALT LAYDOWN. FORM DRAINAGE GUTTER TO MATCH FLOWLINE PARALLEL TO EDITH BLVD.
12. RUNDOWN SWALE SEE DETAIL SHEET 5
13. RUNDOWN EROSION PROTECTION SEE DETAIL SHEET 5
14. EROSION PADS REQUIRED FOR ALL ENTRANCES AND EXITS ON HYDRAULIC STRUCTURES

(16) BUILDING PADS TO BE CONSTRUCTED BY BUILDER CONFORMING TO APPROVED GRADING PLAN. A LETTER BY AN ENGINEER LICENSED IN NEW MEXICO SHALL CERTIFY COMPLIANCE WITH THE APPROVED GRADING PLAN.

GENERAL NOTES

1. CONTRACTOR SHALL CONTACT NEW MEXICO ONE CALL AT (505) 260-1990 TO HAVE EXISTING UTILITIES LOCATED PRIOR TO ANY CONSTRUCTION.
2. CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER AT (505) 243-7300 OF ANY DISCREPANCIES OR CONFLICTS FOUND IN THE FIELD.
3. ALL EXISTING IRRIGATION EASEMENTS AND STRUCTURES ARE TO REMAIN UNDISTURBED.
4. OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE OF DETENTION FACILITIES AND EROSION PROTECTION.
5. PROVIDE A 10% GRADE AWAY FROM BUILDING PADS ON ALL SIDES FOR A MINIMUM OF 10 FEET. CONSTRUCT A DRAINAGE SWALE IF NECESSARY – IF EXISTING GROUND IS AT HIGHER ELEVATION. OTHERWISE ALLOW NATURAL DRAINAGE TO A ROADSIDE OR LANDSCAPE SWALE.
6. SEE DRAINAGE REPORT FOR DRAINAGE DETAILS
7. SEE PLAT FOR EASEMENT LAY OUT.

NOTE: ROADWAY CURVES HAVE BEEN REVISED
SEE PAVING PLANS SHEETS 6 & 7

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY: SUN-TEK DATE 9/03
SURVEY COURSES ACCEPTANCE BY: DATE
VERIFICATION BY SUN-TEK DATE 7/04
DRAWINGS REVIEWED BY SUN-TEK DATE 8/04
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

STATION NAME: 11–D16
THE STATION IS LOCATED 6.2 MILES NORTH OF DOWNTOWN ALBUQUERQUE, NEAR THE NORTHWEST CORNER OF THE INTERSECTION OF EDITH BLVD. N.E. AND LOS RANCHOS DR. N.E.
NORTHING: 1516625.951
EASTING: 390159.736
ELEVATION: 5004.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEERS SEAL

GORDON T. MOSSBERG NEW MEXICO 10571 REGISTERED PROFESSIONAL ENGINEER
7-15-03

NO.	DATE	REMARKS	BY
		REVISIONS	

DESIGN
DESIGNED BY E.D.D.S. DATE NOV., 1999
DRAWN BY C.R. DATE NOV., 1999
CHECKED BY E.D.D.S. DATE NOV., 1999

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Civil Engineering, Environmental Sciences, Water Resources, Landscape Architecture, Planning
1720 – B Randolph Road SE, Albuquerque, New Mexico 87106
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Telephone: (505) 243-7300
Facsimile: (505) 243-7400

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TRES LAGUNAS SUBDIVISION**
GRADING and DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
For Information Only				

City Project No. 659481 | Zone Map No. E-16 + D-16 | Sheet 4 of 23 | Rev. 1

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GradingDrain.dwg 11-8-00 8:45:11 am EST