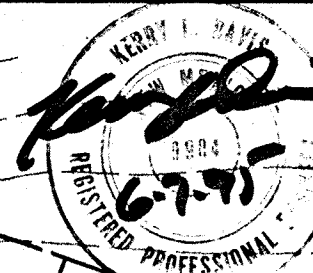


GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #9984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT THE SITE GRADING, PAVING, STORM DRAINAGE, AND OTHER IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING MAY, 1995. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.



EXISTING FEMA 100 YEAR FLOODPLAIN

STA 7+65.60
END WALL D-3
BEGIN FLOODWALL

STA 1+00.00
BEGIN WALL H

STA 1+00.00
BEGIN WALL D-3

STA 12+73.17
END WALL D-2

STA 1+00.00
BEGIN WALL C

SCALE: 1" = 50'

LEGEND

PROJECT BOUNDARY	---
EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	019.25
PROPOSED SPOT ELEVATION	005.70
DIRECTION OF FLOW	S=2.564%
BASIN BOUNDARY	---
EROSION CONTROL BERM	---
PROPOSED RETAINING WALL	---
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	⊙
EXISTING STORM DRAIN INLET	⊙
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	⊙
PROPOSED STORM DRAIN INLET	⊙
STREET FLOW	0.5-0.0CFS
PIPE FLOW	0.5-0.0CFS
SHEET FLOW	0.5-0.0CFS

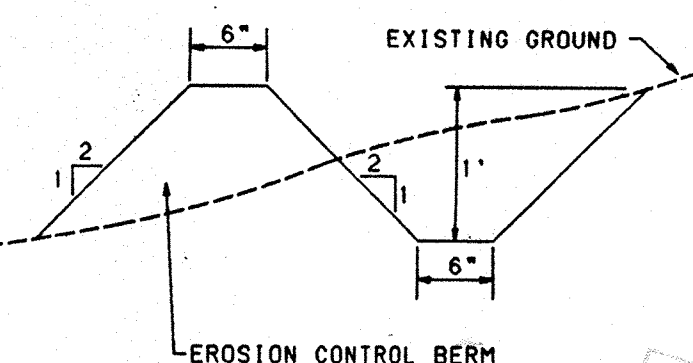
*ALL FLOWS SHOWN ARE 100 YEAR EVENT

GENERAL GRADING NOTES:

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.
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, PERMITS AND APPROVALS.

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.



EROSION CONTROL PLAN

NO SCALE
A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.



RECORD DRAWING

DATE: 5/18/95

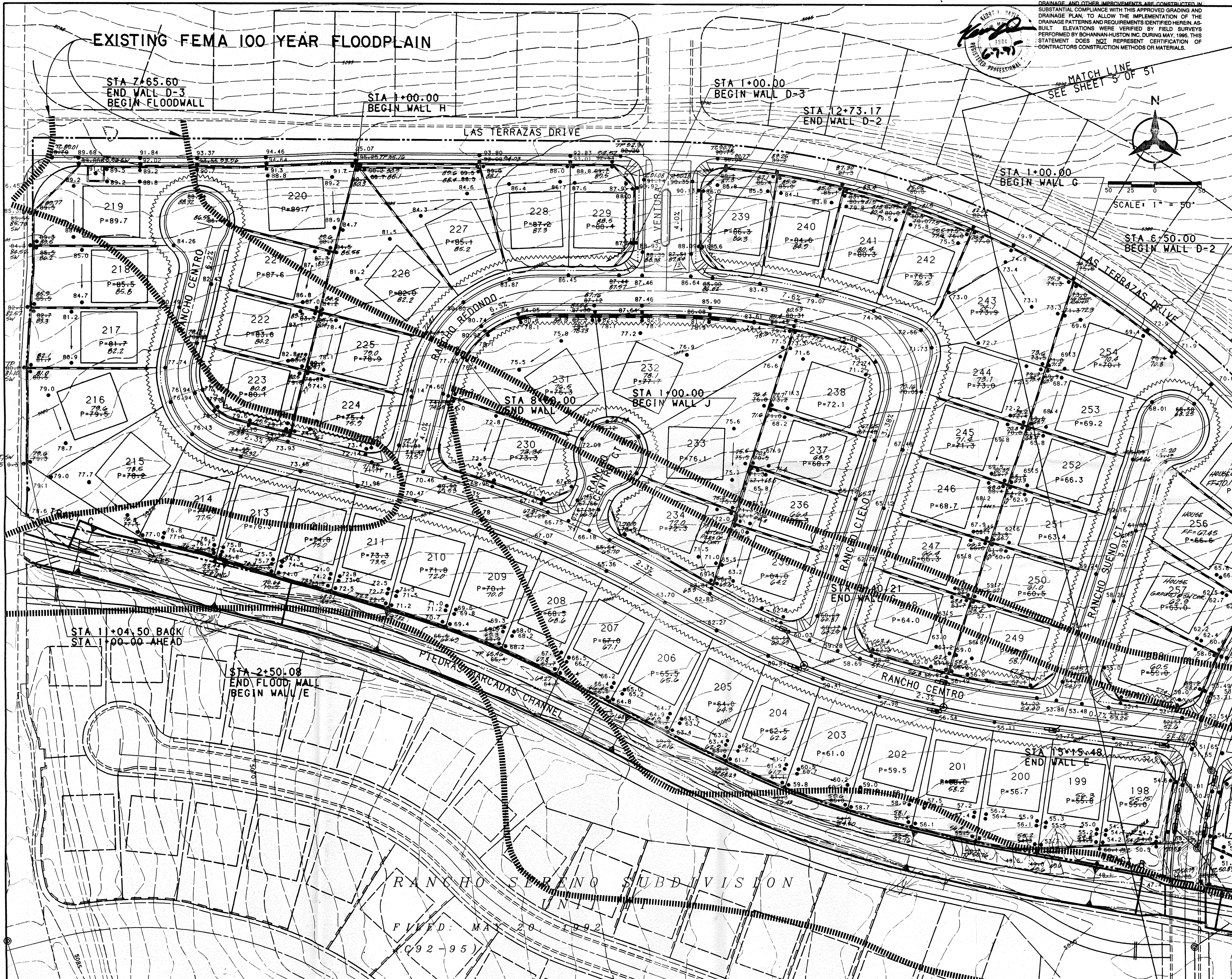
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT III
FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B. J. Bohannon	7-14-94	WATER	N/A RWK	6-17-94
TRANSPORTATION	K. L. Davis	6-7-94	WASTE WATER	N/A RWK	6-17-94
HYDROLOGY	R. L. Davis	6-17-94	A.M.A.F.C.A.	J. L. Bohannon	

DRAWING NO.	4569.95	MAP NO.	C-12	SHEET	4 OF 51
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FILENAME: GRADE1.GRF

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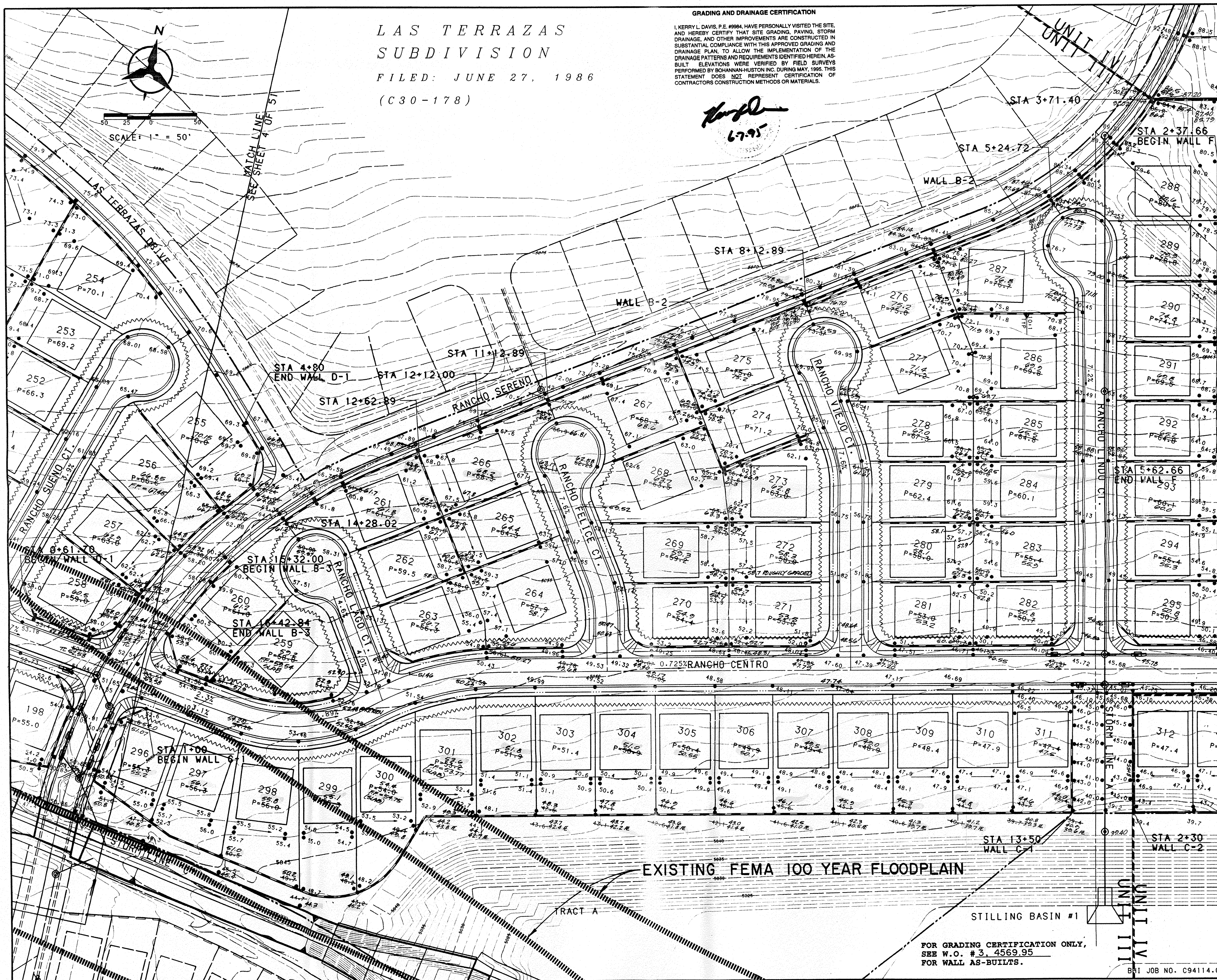
Eng. Cert

(C 3 0 - 1 7 8)

GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #9984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT SITE GRADING, PAVING, STORM DRAINAGE, AND OTHER IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOWMAN-HUSTON INC. DURING MAY, 1995. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTOR CONSTRUCTION METHODS OR MATERIALS.

Kay
6-7-95



PROJECT BOUNDARY _____

EXISTING CONTOUR _____

EXISTED SPOT ELEVATION _____ 019.25

PROPOSED SPOT ELEVATION _____ ●05.70

DIRECTION OF FLOW _____ S=2.564%

BASIN BOUNDARY _____

EROSION CONTROL BERM _____

PROPOSED RETAINING WALL _____

EXISTING STORM DRAIN LINE _____ SD

EXISTING STORM DRAIN MANHOLE _____ (C)

EXISTING STORM DRAIN INLET _____ □

PROPOSED STORM DRAIN LINE _____ SD

PROPOSED STORM DRAIN MANHOLE _____ (C)

PROPOSED STORM DRAIN INLET _____ (C)

STREET FLOW _____ Q_s = 5.0CFS

PIPE FLOW _____ Q_p = 5.0CFS

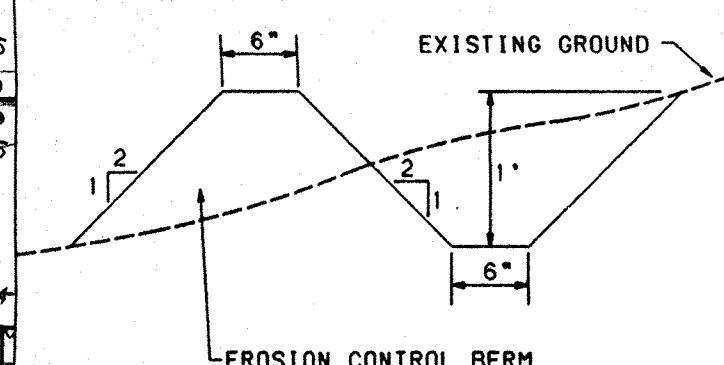
SHEET FLOW _____ Q = 5.5CFS

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.

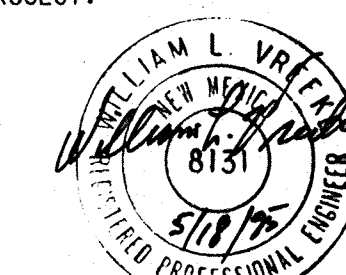
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS.

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.

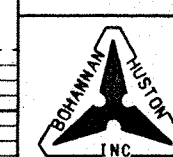


NO SCALE

A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.



DATE: 5/18/95



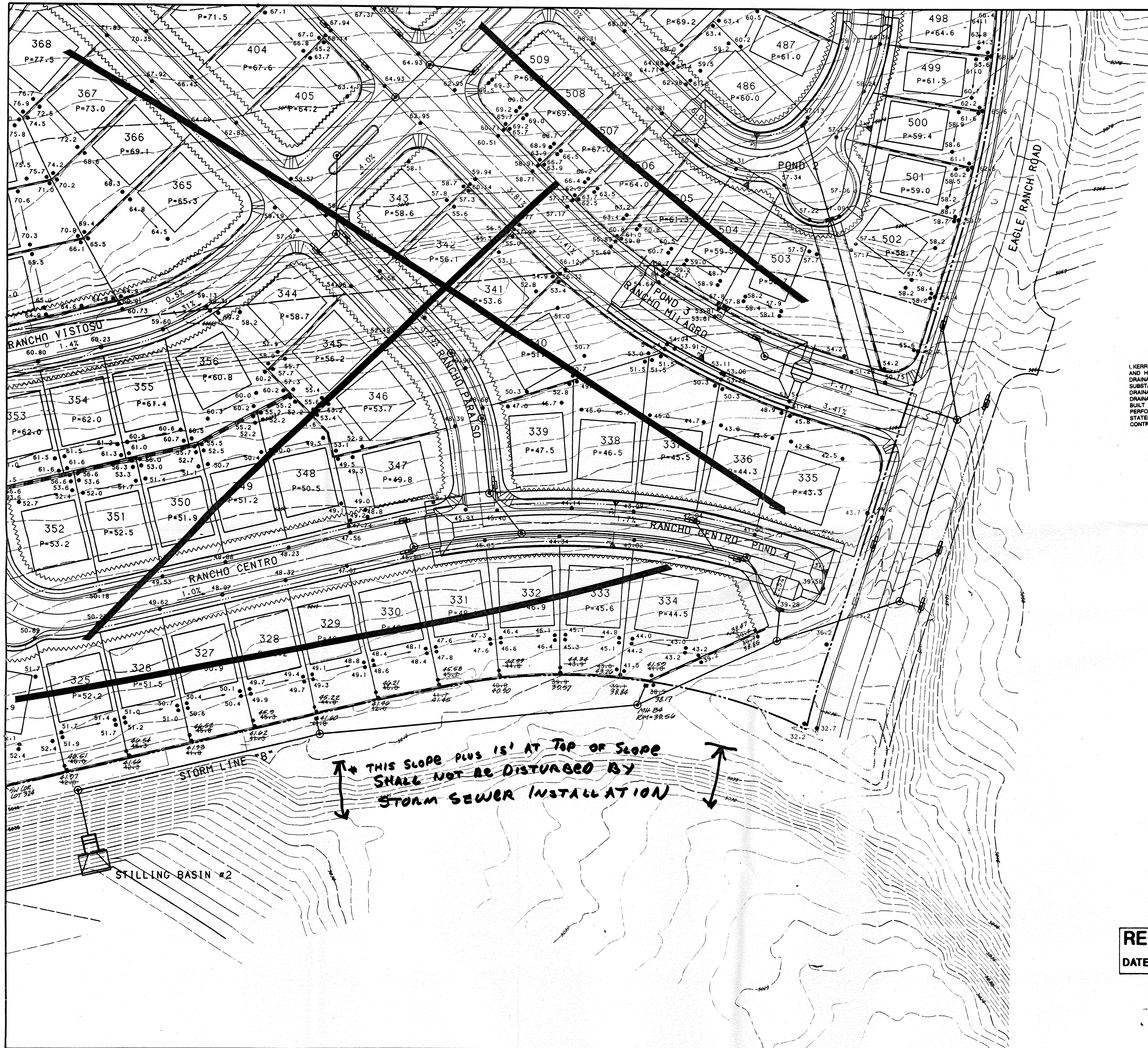
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT III
FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
ORC CHAIRMAN	B.G. Gendley	7-14-94	WATER	N/A RWC	6-17-94
TRANSPORTATION	N/A RWC	6-17-94	WASTE WATER	N/A RWC	6-17-94
HYDROLOGY	Justin	6-17-94	A.M.A.F.C.A.	Paul	6-27-94

DRAWING NO.	4569.95	MAP NO.	C-12	SHEET	5	OF	51
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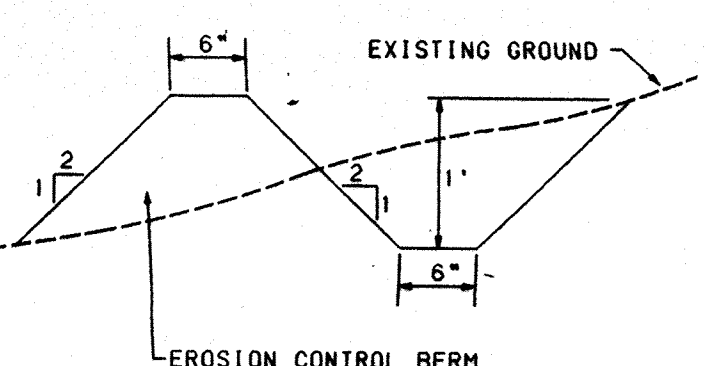
GRADING AND DRAINAGE CERTIFICATION
I, KERRY L. DAVIS, P.E. #9984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT THE GRADING, PAVING, STORM DRAINAGE, AND OTHER IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN AS BUILT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING MAY, 1995. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.



LEGEND	
PROJECT BOUNDARY	---
EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	019.25
PROPOSED SPOT ELEVATION	005.70
DIRECTION OF FLOW	S-2.584%
BASIN BOUNDARY	---
EROSION CONTROL BERM	---
PROPOSED RETAINING WALL	---
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	⊙
EXISTING STORM DRAIN INLET	⊙
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	⊙
PROPOSED STORM DRAIN INLET	⊙
STREET FLOW	Q _s = 5.0CFS
PIPE FLOW	Q _p = 5.0CFS
SHEET FLOW	Q _s = 5.0CFS
*ALL FLOWS SHOWN ARE 100 YEAR EVENT	

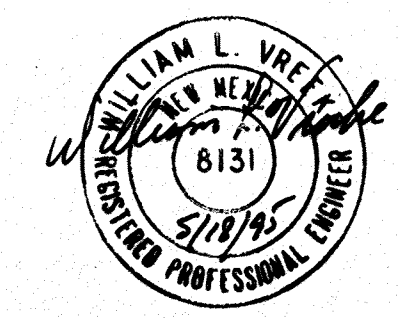
- GENERAL GRADING NOTES:**
1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.
 2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.
 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, PERMITS AND APPROVALS.

EROSION CONTROL PLAN:
THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.



EROSION CONTROL PLAN
NO SCALE
A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.

26	1	5	6	9	8	5	0	7	9	5
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RECORD DRAWING
DATE: 5/19/95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT III
FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>[Signature]</i>	7-14-94	WATER	<i>[Signature]</i>	7-14-94
TRANSPORTATION	<i>[Signature]</i>	6-17-94	WASTE WATER	<i>[Signature]</i>	6-17-94
HYDROLOGY	<i>[Signature]</i>	6-17-94	A.M.A.F.C.	<i>[Signature]</i>	6-17-94

DRAWING NO.	4569.95	MAP NO.	C-12	SHEET	7 OF 51
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GRADING AND DRAINAGE CERTIFICATION

~~UNIT IV~~
~~UNIT III~~

STA 9+89.50

WALL A
STA 6+86.64

STA 16+08.70

STA 16+80.93 BACK
~~STA 1+00 AHEAD~~

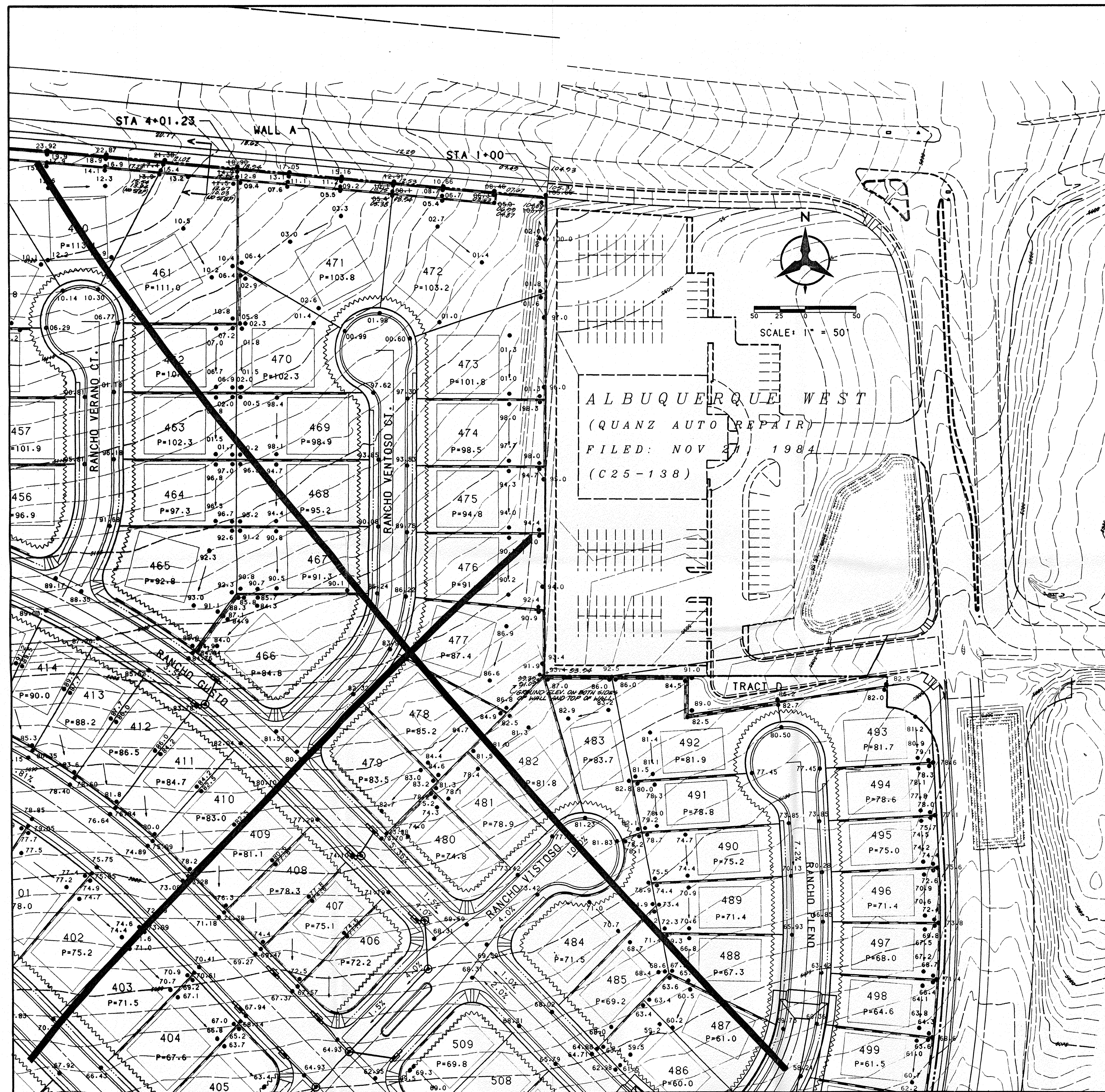
STA 4+00.00
BEGIN WALL B-1

~~STA 7+06.49~~
~~END WALL B-~~

~~STA 0+62.12~~
~~BEGIN WALL~~

Copyright Behavioral-Hunter Inc. 1997

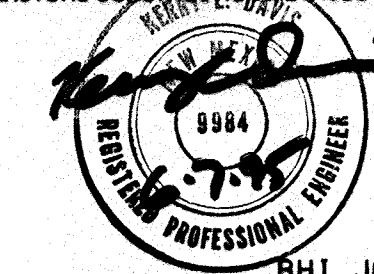
6 OF 17



FOR GRADING CERTIFICATION ONLY,
SEE W.O. # 3 4569.95
FOR WALL AS-BUILTS.

GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #8984, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT THE SITE GRADING, PAVING, STORM DRAINAGE, AND OTHER IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE IMPLEMENTATION OF THE DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING MAY, 1994. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.



BHI JOB NO. C94114.01

LEGEND

PROJECT BOUNDARY	---
EXISTING CONTOUR	---
EXISTING SPOT ELEVATION	019.25
PROPOSED SPOT ELEVATION	005.70
DIRECTION OF FLOW	S-2.544X
BASIN BOUNDARY	---
EROSION CONTROL BERM	---
PROPOSED RETAINING WALL	---
EXISTING STORM DRAIN LINE	SD
EXISTING STORM DRAIN MANHOLE	SD
PROPOSED STORM DRAIN LINE	SD
PROPOSED STORM DRAIN MANHOLE	SD
PROPOSED STORM DRAIN INLET	SD
STREET FLOW	Q _s = 5.0 CFS
PIPE FLOW	Q _p = 5.0 CFS
SHEET FLOW	Q _s = 5.0 CFS

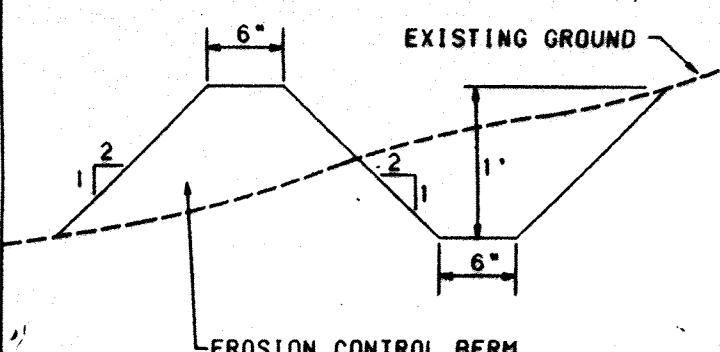
*ALL FLOWS SHOWN ARE 100 YEAR EVENT

GENERAL GRADING NOTES:

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.
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, PERMITS AND APPROVALS.

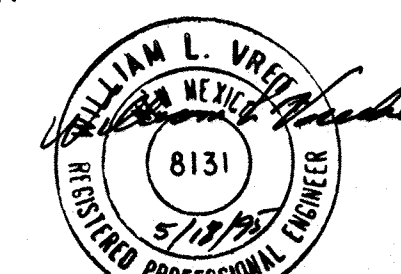
EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.



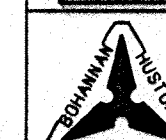
EROSION CONTROL PLAN

NO SCALE
A BERM WITH THE DIMENSIONS SHOWN SHALL BE MAINTAINED DURING CONSTRUCTION UNTIL COMPLETION OF INDIVIDUAL HOMES WITHIN THE PROJECT.



RECORD DRAWING

Perimeter Wall, Paved Driveway
DATE: 5/10/95



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT III FINAL GRADING & DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	W. L. Virdi	7-4-94	WATER	N/A	7-4-94
TRANSPORTATION	M. R. C. H.	6-17-94	WASTE WATER	N/A	6-17-94
HYDROLOGY	A. C. H.	6-17-94	A.M.A.F.C.A.	N/A	6-17-94

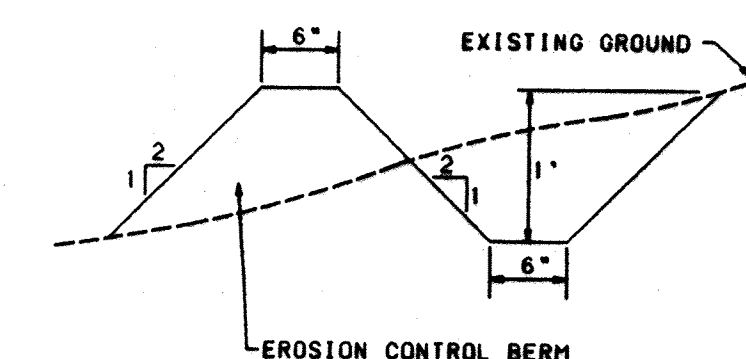
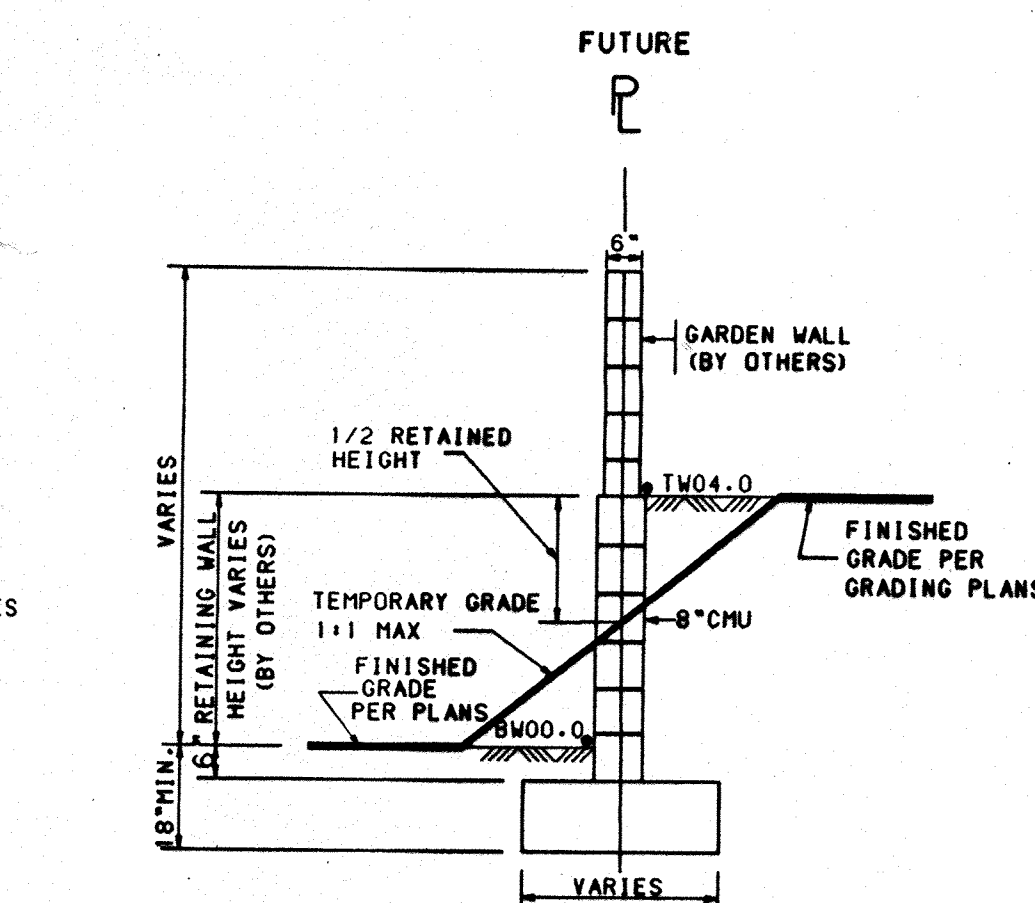
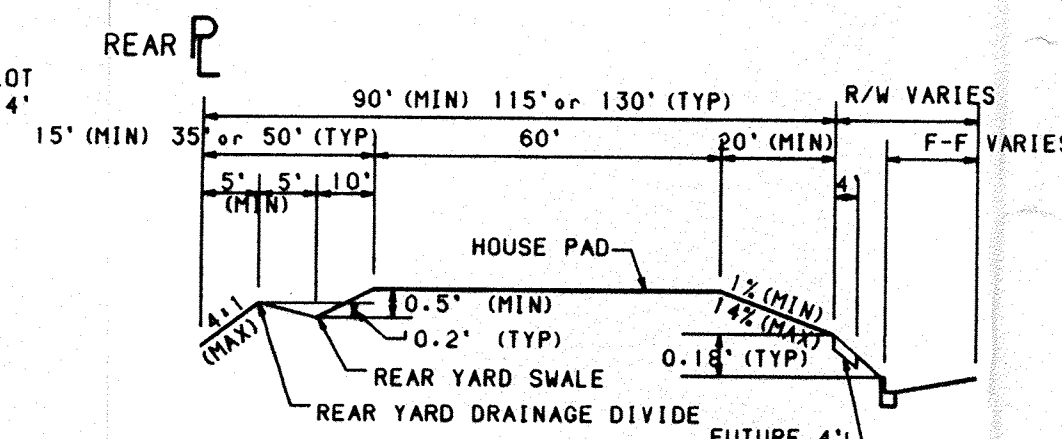
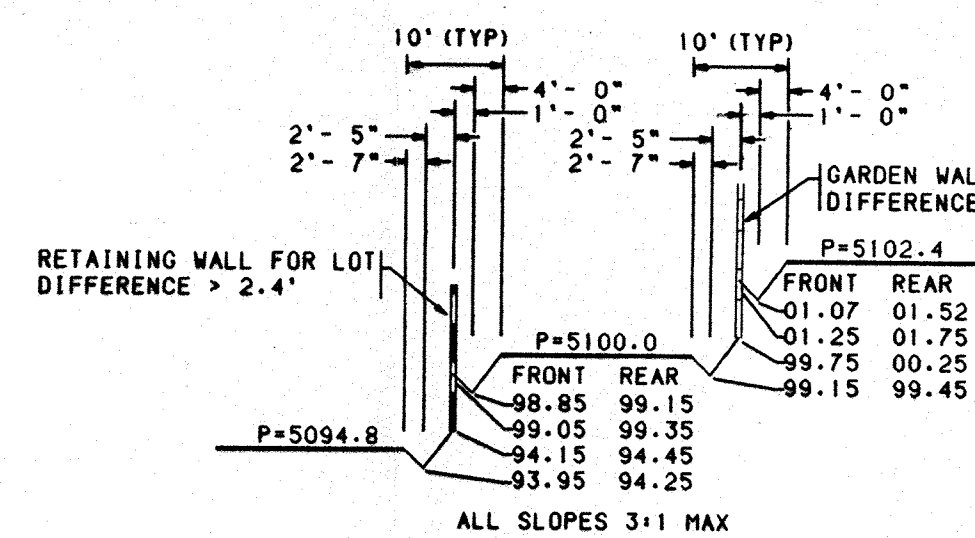
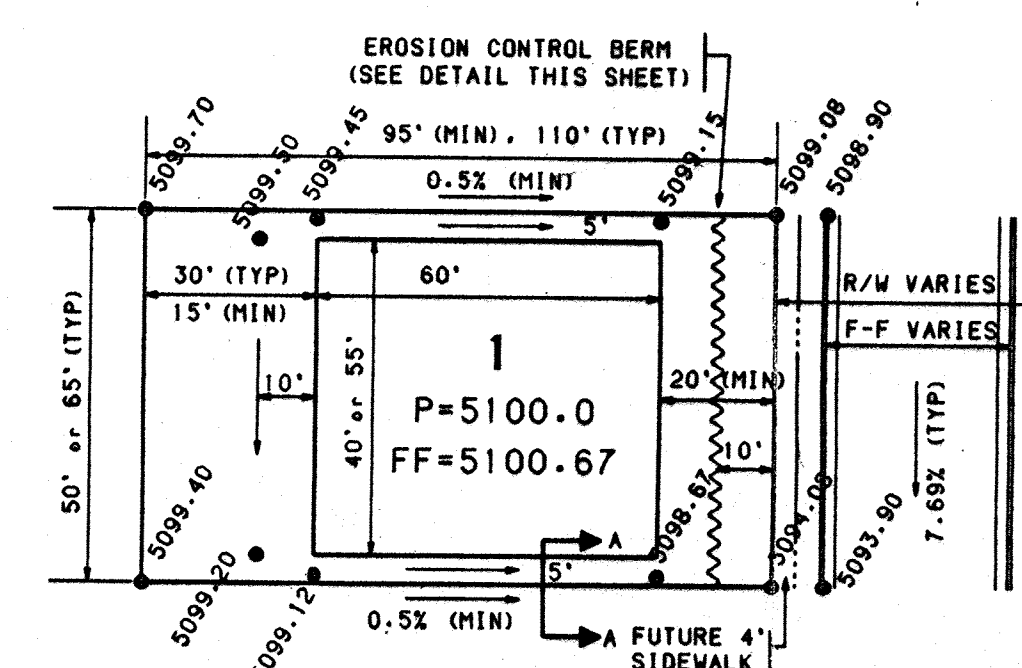
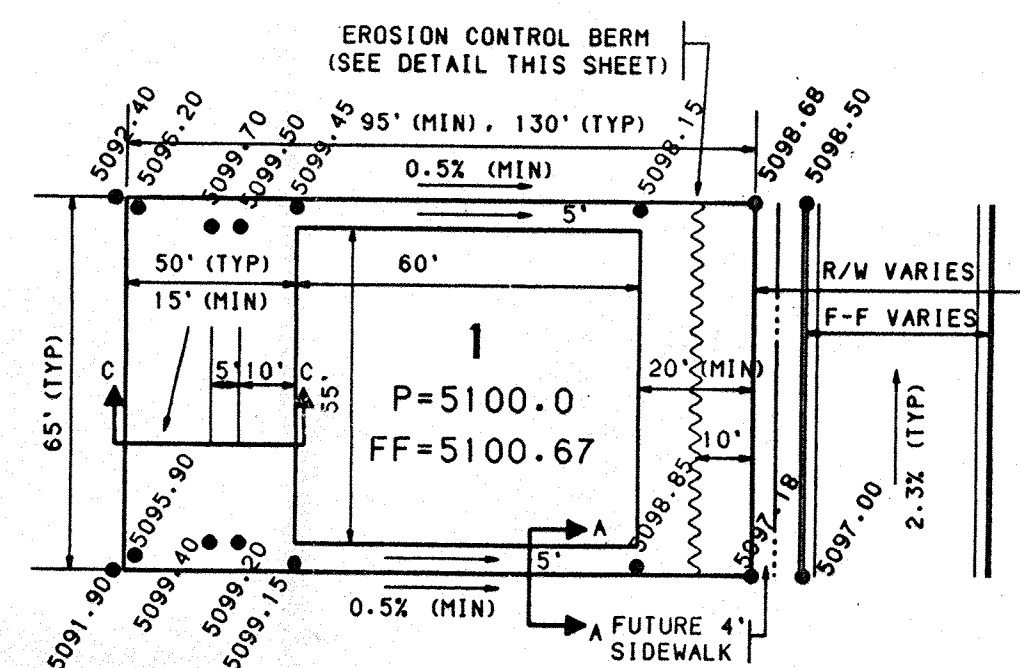
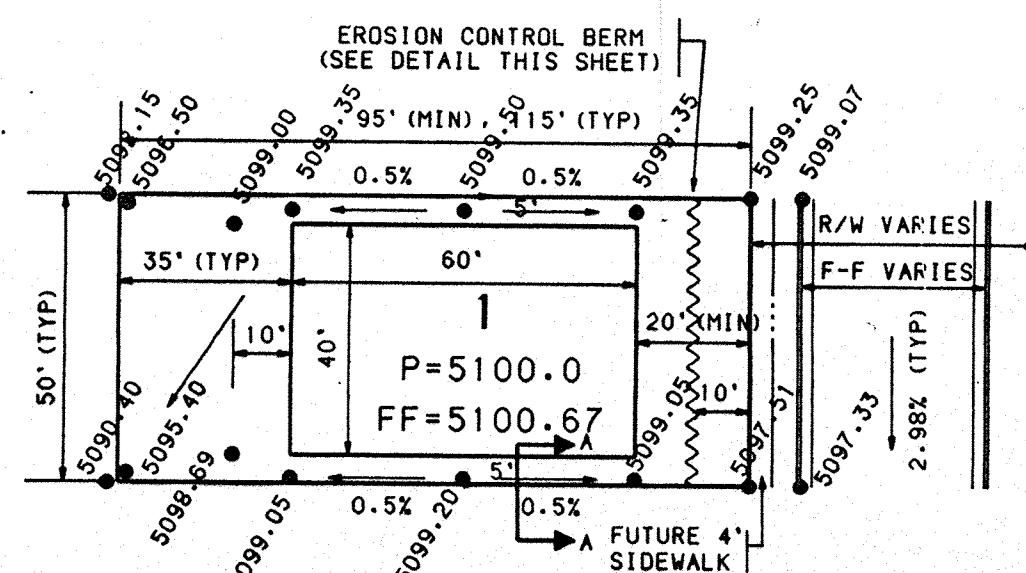
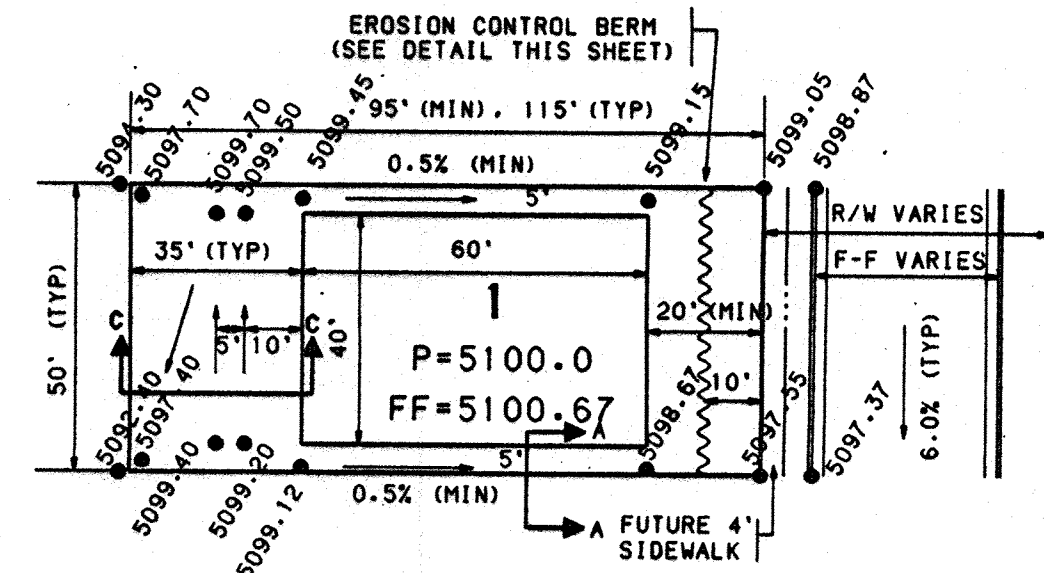
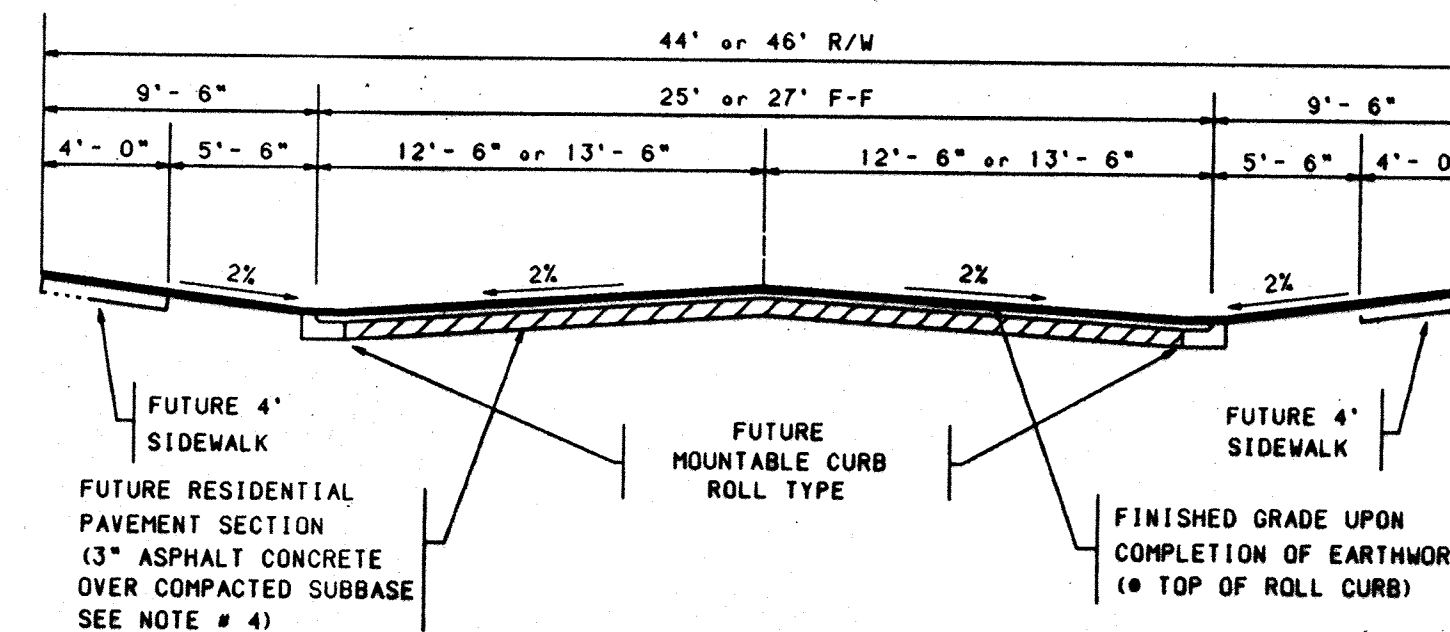
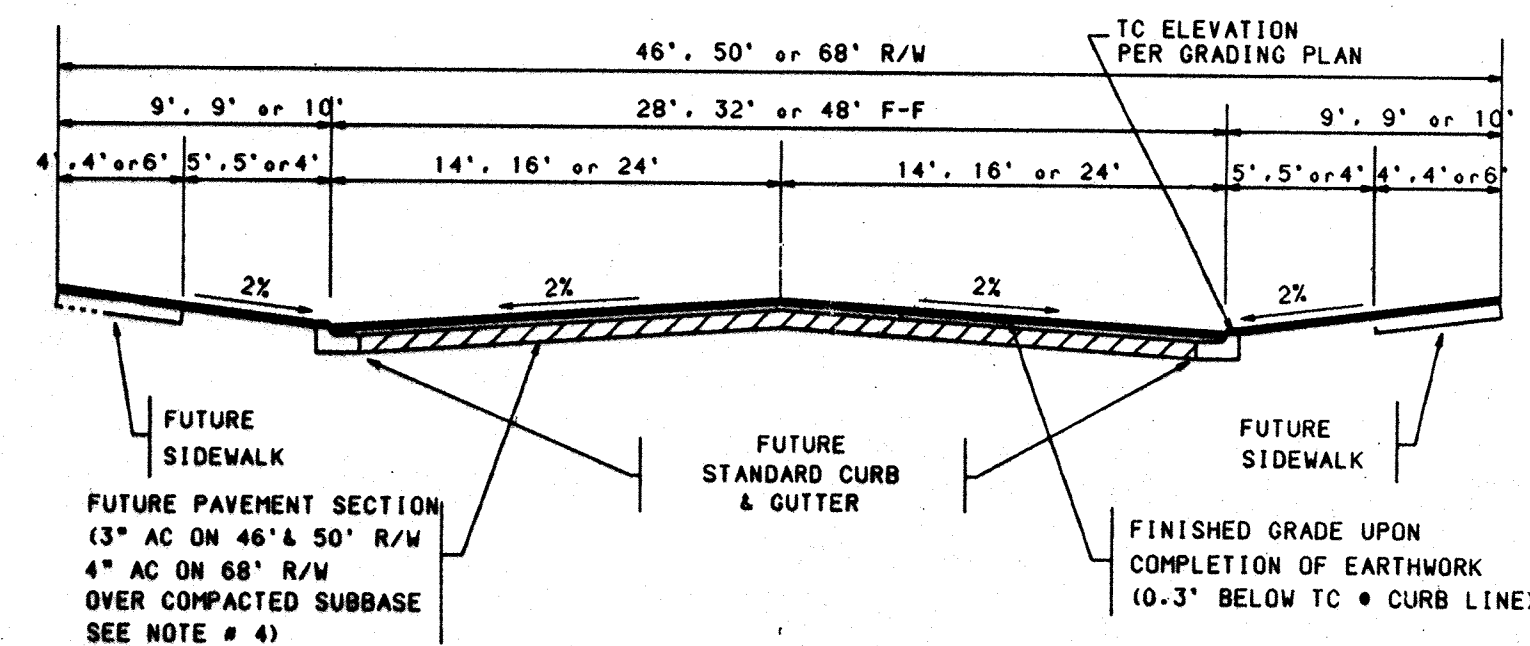
DRAWING NO.	4569.95	MAP NO.	C-12	SHEET	9 OF 51
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FILENAME: GRADES.GRF

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 45 69 95 09 25

JUN - 9 1995



GENERAL GRADING NOTES:

1. THE CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE CITY OF ALBUQUERQUE, ENVIRONMENTAL HEALTH DIV., PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS TO REFER TO THE EARTHWORK SPECIFICATIONS NOTED IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED BY VINEYARD AND ASSOCIATES, DATED JUNE 16, 1993 AND SUPPLIED BY THE OWNER.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREVENTING AND OBTAINING ALL NECESSARY APPLICATIONS, PERMITS AND APPROVALS.
4. FINISHED GRADE IN ROADWAY SECTIONS IS BASED UPON MATERIAL IMPORTED DURING EARTHWORK BEING ACCEPTABLE FOR ROADWAY SUBBASE.

EROSION CONTROL PLAN:

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERMS AS PER DETAIL THIS SHEET AND WETTING THE SOIL REGULARLY TO KEEP IT FROM BLOWING. IN ADDITION, THE CONTRACTOR SHALL RESEED ALL DISTURBED AREAS WITH AHAFCA'S PIEDRAS MARCADAS DAM BASIN ACCORDING TO CITY STANDARD REVEGETATION SPECIFICATIONS.

GRADING AND DRAINAGE CERTIFICATION

I, KERRY L. DAVIS, P.E. #0084, HAVE PERSONALLY VISITED THE SITE, AND HEREBY CERTIFY THAT SITE GRADING, PAVING, STORM DRAINAGE AND OTHER IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THIS APPROVED GRADING AND DRAINAGE PLAN, TO ALLOW THE ELLEVATED STORM DRAINAGE PATTERNS AND REQUIREMENTS IDENTIFIED HEREIN. AS-BUILT ELEVATIONS WERE VERIFIED BY FIELD SURVEYS PERFORMED BY BOHANNAN-HUSTON INC. DURING MAY, 1995. THIS STATEMENT DOES NOT REPRESENT CERTIFICATION OF CONTRACTORS CONSTRUCTION METHODS OR MATERIALS.



RECORD DRAWING

DATE: 5/18/95

APPROVED FOR ROUGH GRADING ($\pm 1'$)

A.M.A.F.C.A. DATE

APPROVED FOR ROUGH GRADING ($\pm 1'$)

HYDROLOGY ENGINEER DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

RANCHO SERENO SUBDIVISION - UNIT III
GRADING & DRAINAGE DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>B.F. Gooding</i>	<i>7-14-94</i>	WATER	<i>N/A RWK</i>	<i>6-17-94</i>
TRANSPORTATION	<i>N/A RHO</i>	<i>6-17-94</i>	WASTE WATER	<i>N/A RWK</i>	<i>6-17-94</i>
HYDROLOGY	<i>C. Austin</i>	<i>6-17-94</i>	A.M.A.F.C.A.	<i>John Hall</i>	<i>6-17-94</i>

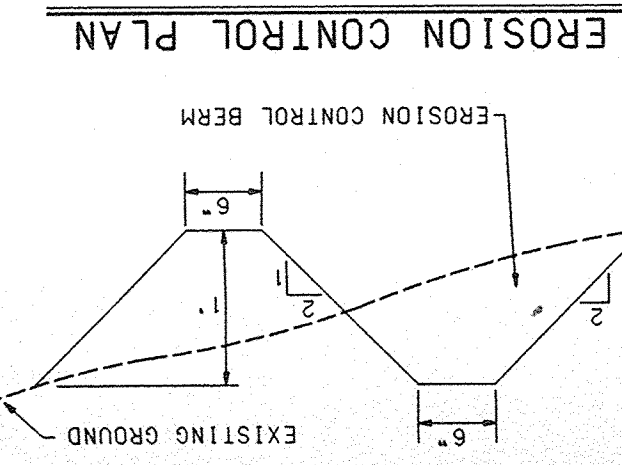
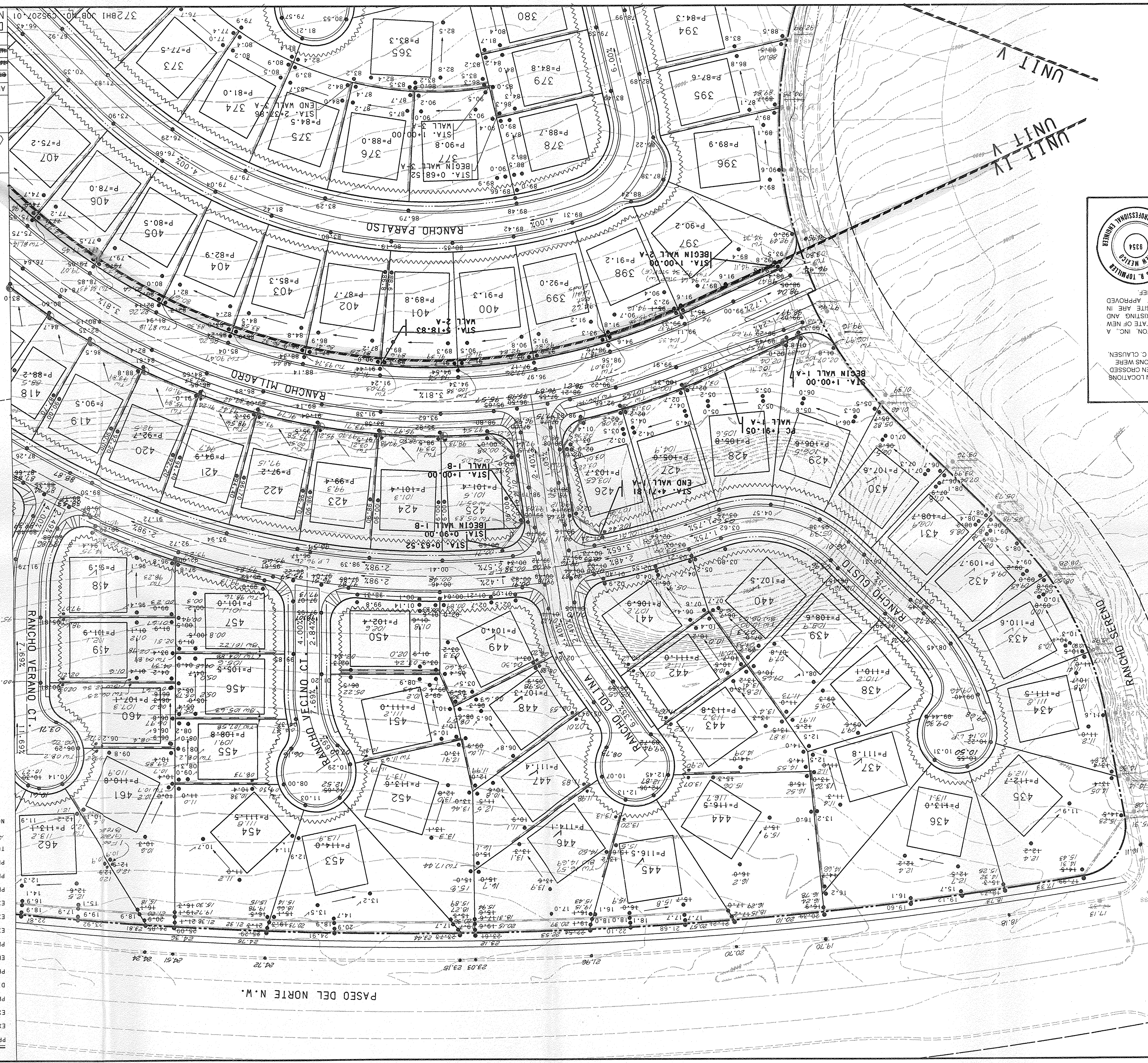
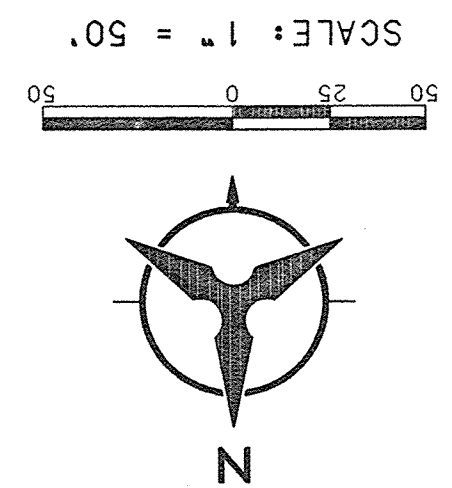
DRAWING NO.	4569.95	MAP NO.	C-12	SHEET	10 OF 51
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DATE: 4/26/98
JAMES R. TOPMILLER, P.E.
K.M.P.E. NO. 9954

AS-BUILT ELEVATIONS ARE SHOWN ON THE PLAN IN LOCATIONS OUT AND THE NEW ELEVATION IS LISTED. ELEVATIONS WERE PROVIDED BY BOHANNAN-HUSTON, INC. AND DAVID C. CLAUSON.

REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE EXISTING AND PROPOSED DRAINAGE CONDITIONS OF THE SITE ARE IN SUBSTANTIAL COMPLIANCE WITH PREVIOUSLY APPROVED PLANS, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

JAMES R. TOPMILLER
REGISTERED PROFESSIONAL ENGINEER
K.M.P.E. NO. 9954



- LEGEND
- PROJECT BOUNDARY
 - EXISTING SPOT ELEVATION
 - PROPOSED SPOT ELEVATION
 - DIRECTION OF FLOW
 - PHASE BOUNDARY
 - EROSION CONTROL BERM
 - EXISTING STORM DRAIN LINE
 - EXISTING STORM DRAIN MANHOLE
 - PROPOSED STORM DRAIN LINE
 - PROPOSED STORM DRAIN MANHOLE
 - TURNED BLOCK LOCATION
 - AS-BUILT ELEVATION (TYPE)
 - NOTE: SPOT ELEVATIONS SHOWN AT CURB

RECORD DRAWING

DATE: _____

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

APPROVALS: _____
ENGINEER: _____
DATE: _____
APPROVALS: _____
ENGINEER: _____
DATE: _____

DRAWING NO. 4569.96
MAP NO. C-12
SHEET 7 OF 38

DESIGNED BY: MSJ
DRAWN BY: SAR
CHECKED BY: KLD

DATE: 10/95
DATE: 10/95
DATE: 10/95

REVISIONS

NO.	DATE	REMARKS	BY
1	1/29/98	DARKENED PROPOSED RETAINING WALLS	MSJ

ENGINEER'S SEAL SURVEY INFORMATION

FIELD NOTES

DATE: _____
BY: _____

BENCH MARKS

STATION MARK IS A STANDARD USCSAS BRASS
TABLET, STAMPED "HUGHES, 1954", SET IN TOP
OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE
THE GROUND. TO REACH THE STATION FROM THE
INTERSECTION OF CENTRAL AVE. AND STATE RD.
448, GO NORTH ON STATE RD. 448, 6.1 MILES.
THE STATION IS 450' WEST OF STATE RD. 448
IN A FENCED-IN PRAIRIE. ELEV. = 5049.93

AS-BUILT INFORMATION

CONTRACTOR: _____
INSPECTOR'S: _____
DATE: _____
RECORDED BY: _____
DATE: _____

	RANCHO SERENO SUBDIVISION - UNIT IV GRADING & DRAINAGE DETAILS	
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ENGINEER'S SEAL

THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY EROSION CONTROL BERRMS AS PER DETAIL THIS SHEET AND MENDING THE SOIL REGULARLY TO KEEP IT FROM BLOWING.
STATION MARK TABLET, STAINLESS STEEL, OF A CONCRETE FOUNDATION. INTERSECTION 448. GO NORTH IN A FENCED

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

EROSION CONTROL BERM

-EROSION CONTROL PERMIT

NO SCALE

BM=FINISHED GRADE ELEVATION AT BOTTOM OF RETAINING WALL

NO SCALE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 104

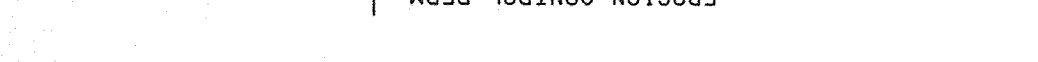
NO SCALE

SECTION A-A

REAR

RANCHO MILAGRO EROSION CONTROL

5810 000 0 000 000 011



1. IC ELEVATION

UNCLASSIFIED//FOR OFFICIAL USE ONLY

GENERAL GRADING NOTES

1000