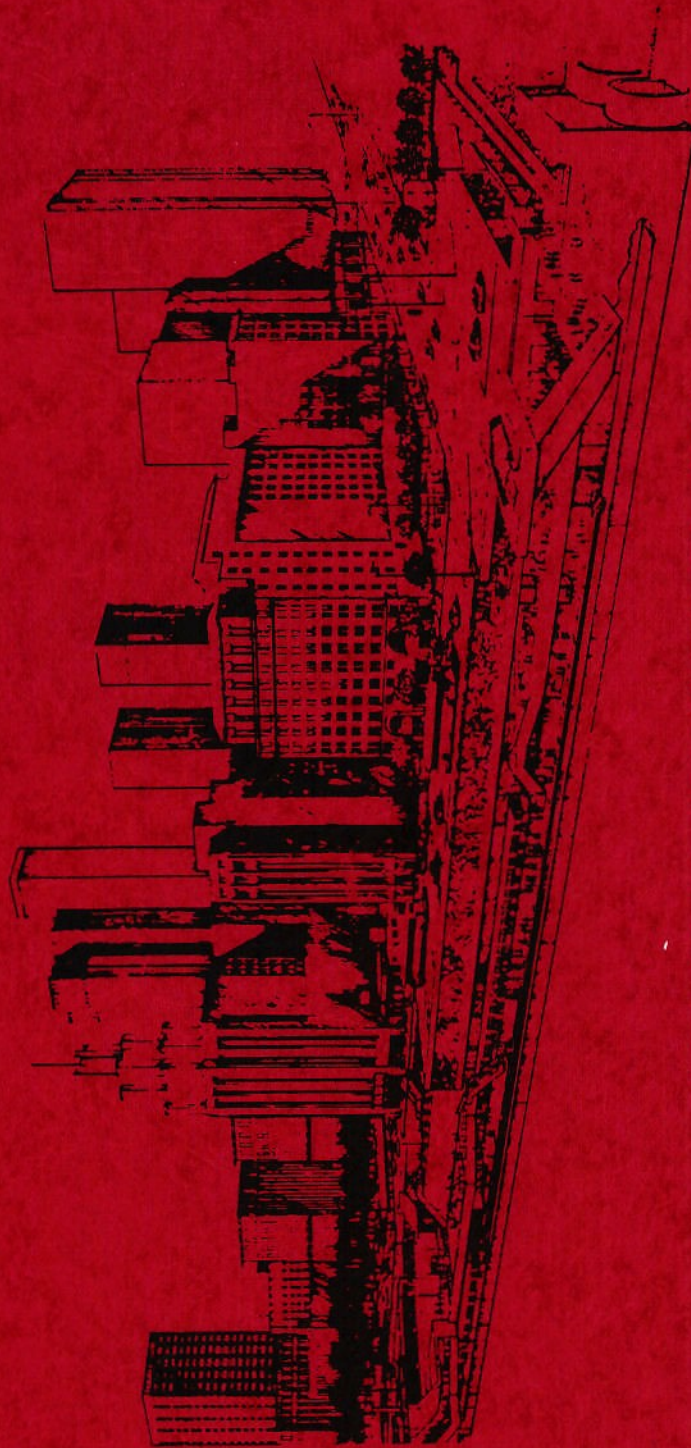


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LOS ANGELES **METRO RED LINE PROJECT**
MONTHLY CONTRACT
PERFORMANCE
REPORT

RTD



REPORT NUMBER 60

JUNE 1989

PDCD

A Joint Venture of The Ralph M. Parsons Co., Dillingham Construction N. A. Inc., and De Leuw, Cather & Co.,

**MONTHLY CONTRACT
PERFORMANCE REPORT**

for the

LOS ANGELES METRO RED LINE PROJECT

JUNE 1989

presented to

Southern California Rapid Transit District

CONTRACT NO. 3369

The preparation of this Document has been financed in part through grants from the State of California, the City of Los Angeles, the Los Angeles County Transportation Commission and the U. S. Department of Transportation, Urban Mass Transportation Administration, under the Urban Mass Transportation Act of 1964, as amended.

Month JUNE Year 1989

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

TABLE OF CONTENTS

	Page
I. Construction Manager's Summary Statement	1
II. Manpower Performance	8
III. Equal Opportunity Performance	15
IV. Schedule Performance	17
V. Cost Performance	20
VI. Additional Activities Performed in June	26
VII. Summary of Activities Planned for July	41
VIII. Subcontractor/Consultant Status	46
IX. Construction Progress Photos	
X. Project History (July 1, 1988 to June 30, 1989)	



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, 2679, 26

SECTION I

**CONSTRUCTION MANAGER'S
SUMMARY STATEMENT**

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LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

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I. CONSTRUCTION MANAGER'S SUMMARY STATEMENT

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MAJOR CM ACTIVITIES

This Contract Performance Report (CPR) for the month of June 1989 is the twelfth and final CPR in the Fifth Annual Work Plan (5th AWP) and covers the period May 27 to June 30, 1989. The following is a summary, by functional organization, of major CM activities during this period:

CONSTRUCTION OPERATIONS: Continued construction management (CM) services for 13 Facility Contracts and 12 Systems Contracts, monitoring of utilities relocations, and performance of submittal reviews. Continued conducting QC inspections of work for compliance to plans and specifications. Monitored contractor progress to approved project schedules. Assisted contractors in coordination with local public agencies in areas of community impact, permits and traffic access. Continued to conduct safety inspections of all contractor activities. Responded to contractor document clarification requests as appropriate.

Environmental Activities: Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175. Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River. Prepared and submitted April and May Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB). Prepared and submitted April and May LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD). Relocated continuous water monitoring instrument at Los Angeles River. Conducted dye study on LA River to determine mixing characteristics of Metro Red Line discharges. Prepared application package for 9 permanent and 14 temporary NPDES water discharge permits. Conducted contamination evaluation of soil samples from A130 chemical grout borings. Negotiated clearance for disposal of contaminated soil from A-146, A-175 and A-145 to a Class II landfill. Reviewed and approved final asbestos submittal and clearance report for asbestos abatement by others at Roosevelt Building, A165. Completed and submitted closure report for tank abandonment at A145.

Utilities and Traffic Activities: Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, and A165. Continued coordination of MOS-1 inspections with LADOT. Processed a total of 6 Traffic and Utilities related submittals.

Surveying Activities: Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175. Continued location survey at yards and shop contracts. Checked slabs poured at A141 and A175 excavation. Continued checking arch form alignment AL tunnel (A171). Checked layout of A165 station.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

PROJECT CONTROLS: Processed 27 Change Requests as follows: 6 for A112; 1 for A130; 1 for A135; 1 for A141; 2 for A144; 5 for A145/A145A; 3 for A146; 4 for A165; 1 for A175; and 3 for A610/A115. Processed 16 Change Notices as follows: 2 for A130; 1 for A135; 3 for A141; 1 for A144; 1 for A145/A145A; 1 for A146; 1 for A165; 1 for A167; 1 for A171; 2 for A175; 2 for A610/A115; Processed 54 Change Orders as follows: 7 for A112; 6 for A130; 10 for A135; 4 for A141; 6 for A144; 8 for A145/A145A; 1 for A146; 1 for A165; 1 for A175; 5 for A610/A115; 1 for A165; and 2 for A620; 1 for A710; and 1 for A751. Processed 49 executed Change Orders through TRACS as follows: 3 for A112; 3 for A130; 6 for A135; 8 for A141; 5 for A144; 4 for A145/A145A; 2 for A165; 2 for A175; 8 for A610/A115; 1 for A616; 3 for A620; 1 for A710; and 1 for A745. Processed 5 Potential Claims as follows: 2 for A112; 2 for A130; and 1 for A135. Processed 26 Change - Technical Evaluations as follows: 1 for A112; 1 for A135; 4 for A141; 3 for A145/A145A; 4 for A146; 2 for A165; 1 for A175; 2 for A610/A115; and 8 for A650. Processed 11 Force Account Change Packages as follows: 2 for A145/A145A; 1 for A146; 3 for A165; 2 for A171; 3 for A610/A115. Processed 19 Monthly Payment Estimates. Completed close-out reconciliations on 6 Force Account Change Orders as follows: 1 for A145/A145A; 1 for A146; 2 for A171; and 2 for A610. Reviewed Contractor Monthly Progress Reports. Prepared inputs to RTD Monthly Status Report. Reviewed: A167 Part I Schedule Resubmittal - approved-as-noted; A630 Part I Schedule Resubmittal-rejected; and A610 Part II Schedule Revision submittal - approved.

Cost Estimates for Changes and Proposals: A112-CR-068: Prepared revised estimate for lighting and power conduits based on agreed scope and quantities, negotiated settlement. A130-CR-032: Reviewed back-up data for removal of concrete foundations. A130-CR-026: Reviewed revised subcontractor proposal on previously negotiated communication duct bank. A135-CR-004: Continued review of proposals and changes LAUPT Baggage Handling Facilities. Solicit and review alternate proposals. A135-CR-032: Prepared estimate and reviewed proposals for LAUPT Police Room. A141-CR-040: Reviewed and clarified scope of work in Incoming Electrical Service Rooms. A145-CR-115: Reviewed and clarified scope of work in Incoming Electrical Service Room. A145-CR-141: Completed estimate for station grounding grid system. A165-CR-044: Prepared estimates for hydraulic elevator piping and conduits, negotiated settlement. A165-CR-047: Prepared estimate for insulating sleeves in air plenums. A165-CR-049: Prepared estimate for 7th Street east bulkhead, A-146 interface. A165-CR-057: Prepared estimate for elevator machine room. A175-CR-068: Prepared estimate for revisions to incoming electrical service rooms. A610/115: Prepared estimates for alternatives to trackwork installation due to tunnel access delays. A710: Prepared R.O.M. estimates for proposed changes to elevators. General: Reviewed contractor proposals, labor and equipment rates for force account work.

CONTRACTS/PROCUREMENT: Issued RFQ's/RFP's and received and evaluated quotes/proposals for Reproduction Services



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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PERIOD JUNE 1989

and Temporary Personnel Services. Prepared and submitted for District approval a portion of Amendments for Associate Subcontracts and other Subcontracts covering AWP-6 requirements. Issued Amendments for two Associate Subcontractors to increase funds to cover remaining AWP-5 requirements.

ENGINEERING SERVICES: In conjunction with review of the A141 tunnel hard rock claim, recovered and tested samples of the Puente Formation siltstone. Initiated once-per-week elevation surveys of the A171 fire station to assure the cessation of settlements prior to repairs being undertaken. Rejected the A135 geotechnical/environmental report compiled by Geofon, the Prime Contractor's consultant, and obtained agreement that they will modify it. Initiated a set of Civic Center Station instrumentation readings immediately after the earthquake of June 12, and found that loads on the support system had increased by less than 1 percent. Observed A135 tieback tests and examined preliminary data on proposed adhesion values. Collected the pre-grout borehole test samples from the A130 area scheduled for chemical grouting through vertical pipes. Began compiling geologic map of the A141 tunnel area where a hard rock claim is pending. Began periodic A141 site visits to observe face geology in the southern reach of the AL tunnel. Began collecting geologic samples from A141 tunnels and storing them in case future strength testing is required for the evaluation of ground conditions. Transmitted A130 busway geologic data to CalTrans for their use in reviewing the bent #4 underpinning submittal. Participated in working sessions with field office personnel and Contractors for Contracts A145 and A165 to resolve numerous design clarification problems. Responded to 115 requests for information or documentation clarification form various contractors. Processed 8 field inquiries with MRTC to obtain clarification of design requirements. Submitted constructibility review comments for Contract A116, Yard Security Fencing, final design; and Contract A187 Wilshire/Alvarado Station Stage II, final design.

During this period 355 Contractor submittals were processed as follows:

For Contract A112✓	- Approved - 13;	Approved-as-Noted - 2;	Rejected - 2	For Record Only - 1.
For Contract A130	- Approved - 12;	Approved-as-Noted - 13;	Rejected - 4.	
For Contract A135	- Approved - 14;	Approved-as-Noted - 9;	Rejected - 3;	For Record Only - 1.
For Contract A135BH	- Approved - 12;	Approved-as-Noted - 12;	Rejected - 4.	
For Contract A141	- Approved - 13;	Approved-as-Noted - 14;	Rejected - 2.	
For Contract A145	- Approved - 15;	Approved-as-Noted - 13;	Rejected - 5.	
For Contract A146	- Approved - 6;	Approved-as-Noted - 4;	Rejected - 3.	
For Contract A165	- Approved - 46;	Approved-as-Noted - 30.		
For Contract A167	- Approved - 1;	Approved-as-Noted - 1;	Rejected - 2.	
For Contract A171	- Approved - 15;	Approved-as-Noted - 6;	Rejected - 2;	For Record Only - 3.



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

For Contract A175	- Approved - 12;	Approved-as-Noted - 4;	Rejected - 1.
For Contract A610/A115	- Approved - 6;	Approved-as-Noted - 3;	Rejected - 1.
For Contract A612	- Approved - 1.		
For Contract A615		Approved-as-Noted - 1.	
For Contract A616	- Approved - 1.		
For Contract A620	- Approved - 5;	Approved-as-Noted - 6.	
For Contract A630	-	Approved-as-Noted - 2;	Rejected - 1.
For Contract A640	- Approved - 4;	Approved-as-Noted - 6;	Rejected - 11.
For Contract A710	- Approved - 3;	Approved-as-Noted - 1.	
For Contract A740	- Approved - 1.		
For Contract A750	-		Rejected - 1.

TOTAL

180

127

43

5 = 355

SAFETY/SECURITY: Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for 10 construction projects. Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service Subcontractors. Reviewed the A167 and A610/A115 Safety Representative candidates for assignment to the Project.

COMMUNITY RELATIONS - Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141. Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.). Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise and accidents. Assisted RTD with coordination of the "hole-thru" media event for Civic Center Station. Assisted with coordination of the U.S. Senator Pete Wilson and U.S. DOT Secretary Skinner media event for 7th/Flower Station. Assisted RTD/GPA with coordination for the scheduled July 13th Community Awareness Meeting for 7th/Flower tenants. Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests. Processed 39 inquiries/complaints. Provided assistance to A145 tenants during Hill Street water line repairs. Provided assistance between A175 Contractor and 7th St. Metro Mall Contractor for access to alley way.

QUALITY ASSURANCE/QUALITY CONTROL - Conducted field surveillance of welding activities in support of Contracts



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

A135, A145, A165, A171 and shop fabrication surveillance at Paramount Steel, COWELCO, and Angeles Steel. Continued monitoring of Testing Lab (Smith-Emery) performance and costs. Continued surveillance of HDPE installation (A141, A165, A171 and A175) and witnessing of fire protection system hydrostatic tests at A165, A175, and A112. Conducted field audit of lift drawings (A130 and A141) to verify conformance with review and approval process.

EQUAL OPPORTUNITY - Monitored Equal Opportunity reporting requirements for 22 contracts. Conducted project site visits/employee interviews at 10 construction sites. Processed penalty assessments for the late submittal of the Monthly Employment Utilization Reports for 8 Contracts.

MANPOWER PERFORMANCE

The manpower performance for June is measured against the approved planned staffing for the 5th AWP. During June, the actual staff level was 200 vs. the planned staff level of 193. Therefore, the actual staff count for June was 7 over the planned staffing level. The staff breakdown by company was 133 for the Joint Venture firms and 67 for the Associate Subcontractors. The increased staff was required for the processing of excessive field submittals and correspondence and for multishift inspection of construction work at various jobsites.

The June period had 192 available workhours/person. The plan provided for expenditure of 35,952 hours, including "as-required" manhours which would have generated a projected equivalent head count of 187.5 personnel at 192 hours/person. Actual hours expended were 36,672 which translates into a 191.0 equivalent head count at 192 hours/person including temporary personnel, resulting in the equivalent of 3.75 personnel over the plan.

Cumulative total hours incurred through June were 371,709 against a plan of 360,320 resulting in an over plan variance of 11,389 hours.

EQUAL OPPORTUNITY (EO) PERFORMANCE

EO performance for PDCD in June measured on a cost accrual basis under THREE ~~four~~ categories - DBE, WBE and Minority and Women Affirmative Action was as follows:

- o Cumulative DBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 18.5%, 1.5% over the goal of 17%.
- o Cumulative WBE participation for the Fifth Annual Work Plan through the month, measured against a total cost basis was 4.5%, 1.5% over the goal of 3%.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- o Minority and Women Affirmative Action performance for the month exceeded the established goals of 17% and 8% by 21% and 0% respectively.

SCHEDULE PERFORMANCE

- o Contractor Submittals - During this period, 339 submittals were received per contract number as follows:
A112 (15), A130 (24), A135 (11), A135BH (15), A141 (22), A145 (16), A146 (7), A165 (59), A167 (1), A171 (15), A175 (12), A610/A115 (5), A612 (0), A615 (1), A616 (6), A620 (4), A630 (2), A640 (0), A710 (2), A732 (1), A740 (1), A745 (0), A750 (1) and A795 (0); of the 339 received this period plus the 206 carryover from May, 325 packages were processed and returned to the contractors; the balance of 220 remain in review.
- o Constructability Reviews - Completed reviews for A116/100%, Yard Site Security Fencing and A187/100%, Wilshire/Alvarado Station, Stage II.

COST PERFORMANCE - Fifth Annual Work Plan

- o Total incurred costs of \$1,657,096 for CM Direct Services (excluding General Condition Items) for the period were under the plan of \$1,659,574 by \$2,478. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$36,816 and labor expenditures (total PDCD and subcontractors) being over the plan by \$34,338.
- o The estimate at completion for the month of June and the cumulative costs for Total CM Services (Including General Condition Items) incurred through June, were \$17,435,582 against a plan of \$17,625,378 resulting in an under plan of \$189,796.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$49,627 for the period were under the plan of \$144,188 for the period by \$94,561. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$861,655 which is over the plan of \$664,300 by \$197,355.

GENERAL

- o This "Monthly Contract Performance Report" covers progress relative to PDCD's CM Services contract with the RTD. By RTD direction PDCD no longer produces the "Monthly Construction Performance Report". An



LOS ANGELES METRO RED LINE

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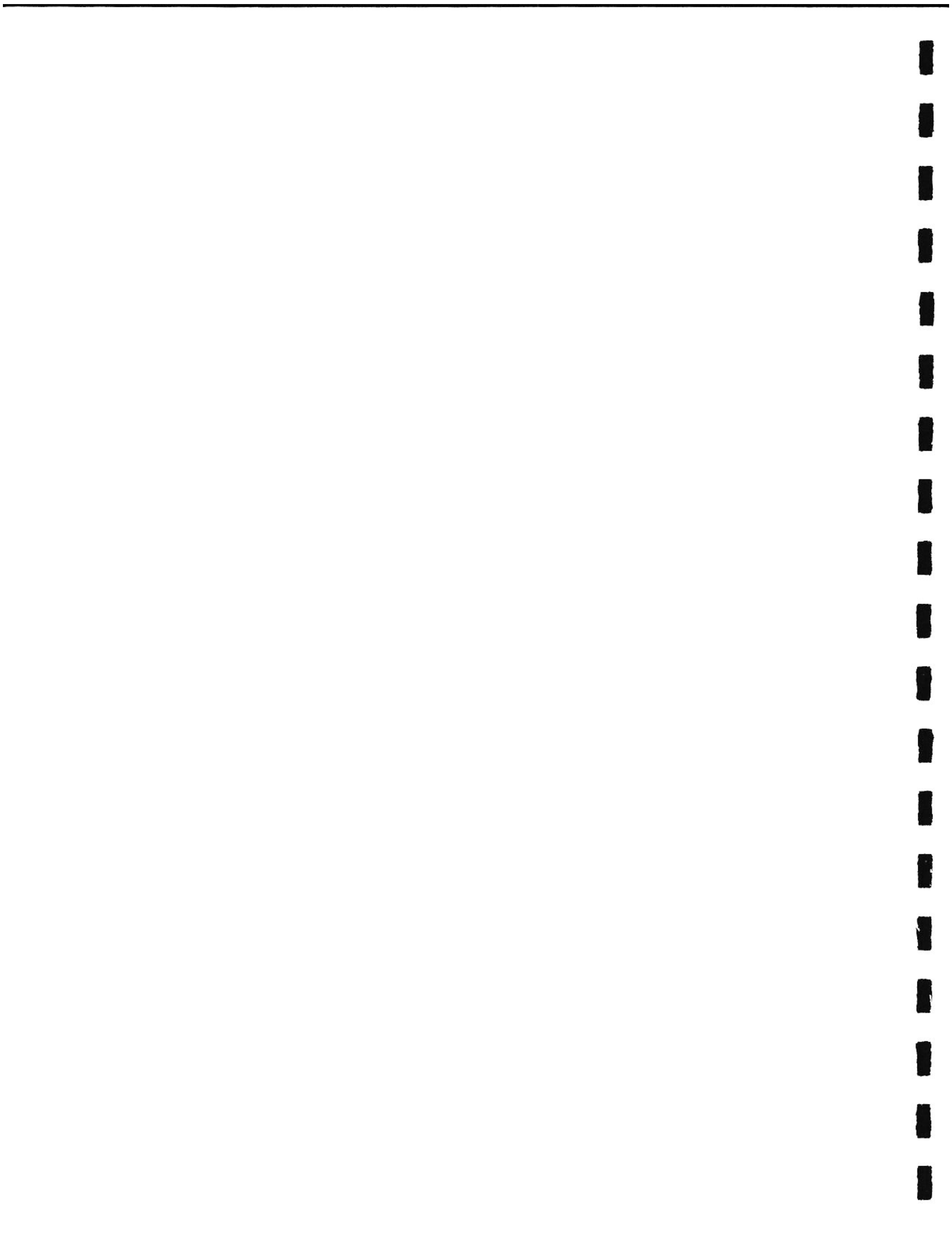
PDCD

PERIOD JUNE 1989

equivalent document is now produced by RTD with PDCD input and is entitled the "Monthly Status Report."
A copy of the RTD report is distributed to previous recipients of the PDCD report as required.

A handwritten signature in cursive script, reading "Melvin L. Polacek".

Melvin L. Polacek
Construction Manager



SECTION II

MANPOWER PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

II. MANPOWER PERFORMANCE

This CPR for the month of June compares actual manpower to the planned manpower in the approved 5th AWP. Table II-1, Page 10, illustrates planned staff vs. actual staff and variances for June.

During June, personnel assignments/deletions included the addition of 1 Architect, 1 Mechanical Engineer, and 1 Sr. Secretary; and the deletion of 1 Sr. Secretary, 1 Field Office Engineer, 1 Structural Engineer, 1 Word Processor, 1 Utility Engineer, 1 Sr. Inspector, 1 Cost Engineer, and 1 Sr. Clerk.

For the June period, under the approved 5th AWP, the total planned staffing level (including regular and as-required classifications) is 193. The actual staff (including regular, as-required and temporary classifications) was 200 resulting in 7 over the plan. The current actual staff by company for the June period is as follows:

<u>Company</u>	<u>Staff Level</u>	<u>Company</u>	<u>Staff Level</u>
The Ralph M. Parsons Company	57	Jenkins, Gales & Martinez, Inc.	10
Dillingham Construction, Inc.	55	Kal Krishnan Consulting	2
De Leuw, Cather & Company	21	Martin & Huang International	4
Better Personnel Employment Services	9	North Pacific Construction Management	5
Construction Control Services Corporation	18	Ochoa & Sillas	-
Dames & Moore	1	Randolph & Tate Associates	-
D'Leon Consulting	1	Transmetrics	1
Engineering-Science, Inc.	3	WCI	4
Jacobs Associates	9		

The PDCD Manpower Chart on Page 11 illustrates planned manpower for Construction Services for the Fifth Annual Work Plan period. Actual equivalent manpower is shown for the months of July through June.

The June period had 192 available workhours/person. The plan provided for an expenditure of 35,952 hours, including "as-required" manhours, which would have generated a projected equivalent head count of 187.25 personnel @192 hrs/person. Actual hours expended were 36,672 which translates into an equivalent head count of 191.0 @ 192 hrs/person including temporary personnel, resulting in the equivalent of 3.75 personnel over the plan.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

The hours expended for the period were 36,672 versus a plan of 35,952. The 720 manhours variance for the period is calculated as follows:

3.75 equivalent staff over plan @ 192
hours/period in plan =

720 hours

JUNE MANHOUR VARIANCE TO PLAN

720 hours

Cumulative total hours incurred through June were 371,709 against a plan of 360,320 resulting in an over plan variance of 11,389 hours. (Page 22)



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

TABLE II-1 CONSTRUCTION MANAGEMENT STAFF COUNT - JUNE
FIFTH ANNUAL WORK PLAN

Phase II
Construction
Services
Regular/As-required/Temporary

Position	Planned	Actual	Variance
Construction Manager	1	1	0
Manager, Safety and Security	1	1	0
Safety Inspectors	2	2	0
Manager, Quality Assurance	1	1	0
QA/QC Inspector	1	1	0
Secretary/Word Processing/Clerical/ Drafting/Courier	15	16	1
Labor Relations	0	0	0
Legal Counsel	0	0	0
Subtotal	22	24	2
Manager, Administration and Staff Support	1	1	0
Manager, Project Administration/Accounting	1	1	0
Senior Accountant	1	1	0
Senior Accounting Clerks	2	2	0
Office Manager	1	1	0
Arts Coordinator	1	0	(1)
Manager, Community Relations	1	1	0
Community Relations Coordinator	1	1	0
Manager, EO Administration	1	1	0
EO Administrator	1	1	0
(3) Lead Document Control Specialist	1	1	0
Document Control Specialist	1	1	0
Shop Drawing Coordinator	1	1	0
Data Technician	2	4	2
File Clerk	1	2	1
Subtotal	17	19	2
DCM, Project Controls/Engineering Services	1	1	0
Manager, Project Controls	1	1	0
Technical Data Coordinator	1	1	0
Lead Cost Engineer	4	4	0
Cost Engineers	1	1	0
Lead Change Control Specialist	1	1	0
Change Control Spec.	1	1	0
Claims Proc. Spec.	1	1	0
Data Technician	1	1	0
Lead Planner/Scheduler	6	8	2
Planner/Schedulers	1	1	0
Lead Estimator	5	2	(3)
Estimators	1	1	0
Sr. Data Technician	1	1	0
Computer Support	0	0	0
Subtotal	26	25	(1)
Manager, Contracts/Procurement	1	1	0
Sr. Contract Administrator	2	2	0
Subtotal	3	3	0

Phase II
Construction
Services
Regular/As-required/Temporary

Position	Planned (1)	Actual (2)	Variance
Manager, Engineering Services/ Systems Integration	1	1	0
Drafting Technicians	3	1	(2)
Lead Architect	1	1	0
Architect	0	1	1
Lead Electrical Engineer	1	1	0
Lead Engineer, Geotech. Section	1	3	2
Engineers, Geotech. Section	7	4	(3)
Lead Mechanical Engineer	1	1	0
Mechanical Engineer	1	1	0
Lead Structural Engineer	1	1	0
Sr. Struct./Struct. Engineers	2	3	1
Lead Systems Engineer	1	1	0
Office Engineer	2	1	(1)
Subtotal	23	23	0
DCM, Operations	1	1	0
Manager, General Services	1	1	0
Lead Utilities Engineer	1	1	0
Utility Engineer	1	0	(1)
Chief of Surveys	1	1	0
Party Chief	1	1	0
Instrument Person	2	2	0
Rod Person	1	2	1
Lead Environmental Engineer	1	1	0
Environmental Specialists	3	3	0
Engineer	0	0	0
Engineering Technician/Coordinator	1	1	0
Resident Engineers	9	10	1
Chief Inspectors	8	9	1
Sr. Inspectors/Inspectors	38	38	0
Office Engineers	10	12	2
Field Secretaries/Clerical	14	13	(1)
Manager, Systemwide Construction	1	1	0
Office Engineer	2	3	1
Resident Engineers	4	4	0
Secretaries/Clerical	2	3	1
Inspector	0	0	(0)
Subtotal	102	106	4
Totals	193	200	7

NOTES:

- (1) The "Planned" staff count is taken directly from the RTD approved PDCD 5th App. It is the planned staff count for the reported month and includes both "Regular" and "As-required" classifications.
- (2) The "Actual" staff count is the total actual staff count by Job Position. Included are regular, as-required and temporary staff.
- (3) Effective February 1, 1989, the Document Control Section, previously in the DCM, Engineering Services/Project Controls group, was transferred to the Manager, Administration and Staff Support group.



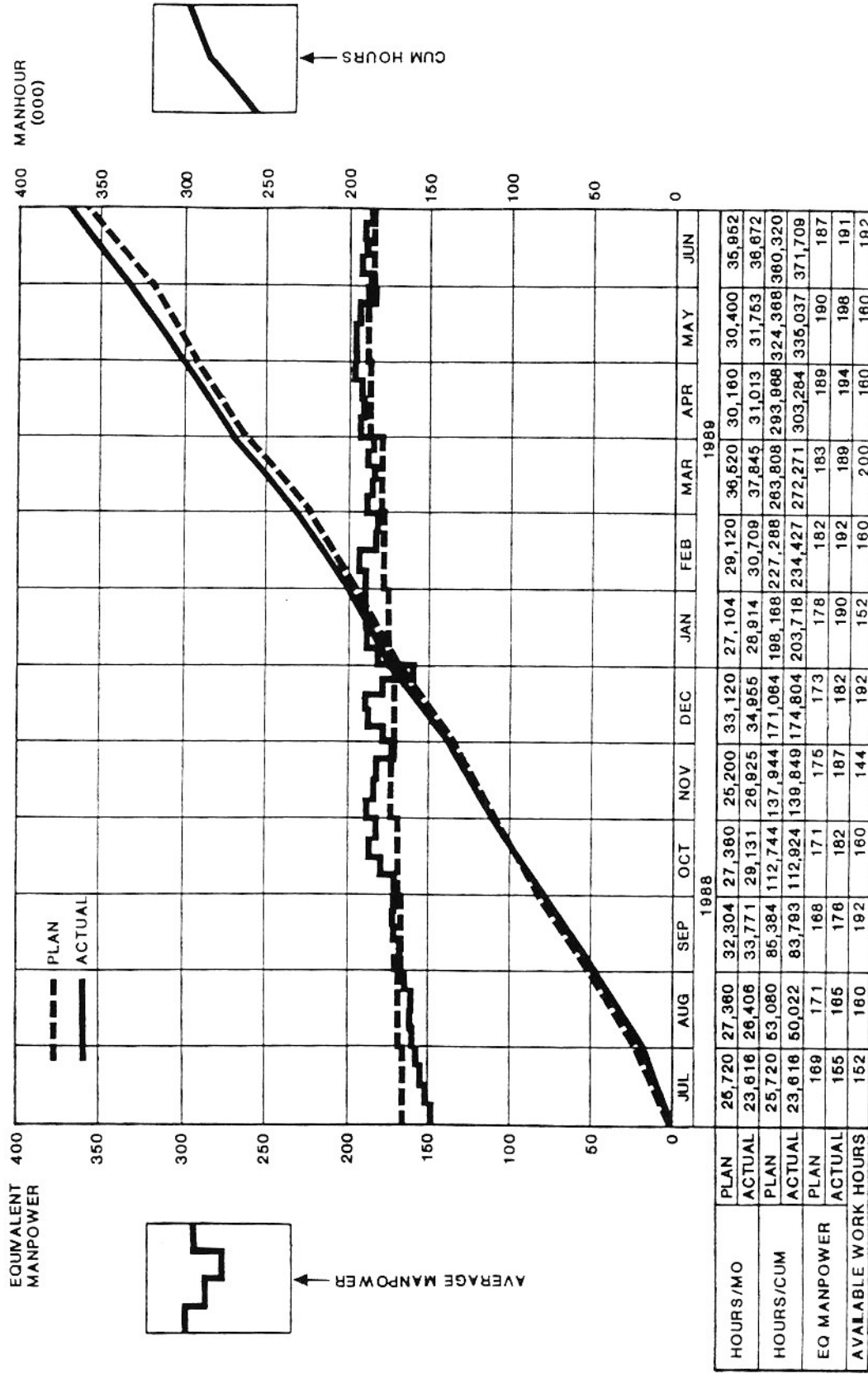
LOS ANGELES METRO RED LINE

PDCD

CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

PERIOD JUNE 1989



PDCD MANPOWER

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

FIFTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 1 OF 3

DESCRIPTION (MURS)		1988												1989											
		JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS											
MANHOURS BY FUNCTIONAL DEPARTMENT																									
A Project Management and Secretarial	Plan	2,736	2,080	3,456	2,880	2,592	3,456	2,736	2,880	3,600	2,880	2,880	3,456	36,432											
	Actual	2,736	5,616	9,072	11,952	14,544	18,000	20,736	23,616	27,216	30,096	32,976	36,432	36,432											
C Facilities Construction Management	Plan	9,400	10,160	11,984	10,320	9,536	12,368	10,320	11,120	14,200	11,840	12,160	14,208	137,616											
	Actual	9,400	19,560	31,544	41,864	51,400	63,768	74,088	85,208	99,408	111,248	123,408	137,616	137,616											
E Systemwide Construction Management	Plan	9,697	10,772	13,438	12,086	11,439	15,144	12,354	13,150	16,050	12,949	13,276	15,602	155,817											
	Actual	9,697	20,329	33,767	45,853	57,292	72,436	84,790	97,940	113,990	126,939	140,215	155,817	155,817											
F General Services	Plan	1,304	1,200	1,584	1,200	1,392	1,616	1,456	1,360	1,840	1,320	1,520	1,776	17,768											
	Actual	1,304	2,504	4,088	5,288	6,680	8,296	9,752	11,112	12,952	14,472	15,992	17,768	17,768											
K Project Controls	Plan	1,984	2,080	2,464	1,920	1,744	2,272	1,832	1,920	2,360	1,920	1,920	2,272	24,688											
	Actual	1,984	4,064	6,528	8,448	10,192	12,464	14,296	16,216	18,576	20,496	22,416	24,688	24,688											
L Contracts/Procurement	Plan	2,083	2,408	3,642	2,644	2,554	3,051	2,172	2,155	2,888	2,370	2,066	2,109	30,142											
	Actual	2,083	4,491	8,133	10,777	13,331	16,382	18,554	20,709	23,597	25,967	28,033	30,142	30,142											
	Plan	4,184	4,480	5,264	4,560	4,032	5,456	4,336	4,560	5,840	4,720	4,720	5,616	57,768											
	Actual	4,184	8,664	13,928	18,488	22,520	27,976	32,312	36,872	42,712	47,432	52,152	57,768	57,768											
	Plan	2,882	3,203	3,498	3,743	3,275	4,353	3,765	4,050	5,306	4,326	4,854	5,459	48,714											
	Actual	2,882	6,085	9,583	13,326	16,601	20,954	24,719	28,769	34,075	38,401	43,255	48,714	48,714											
	Plan	456	480	576	480	432	576	456	480	600	480	480	576	6,072											
	Actual	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072	6,072											
	Plan	445	471	509	407	388	447	385	422	447	354	442	393	5,110											
	Actual	445	916	1,425	1,852	2,220	2,667	3,052	3,474	3,921	4,275	4,717	5,110	5,110											
M Engineering Services/Systems Integration	Plan	2,976	2,960	3,536	2,960	2,672	3,536	3,128	3,600	4,280	3,520	3,520	3,968	40,656											
	Actual	2,976	5,936	9,472	12,432	15,104	18,640	21,768	25,368	29,648	33,168	36,688	40,656	40,656											
	Plan	2,440	3,048	4,247	3,284	3,063	3,762	3,329	3,847	4,164	3,194	3,358	4,200	41,936											
	Actual	2,440	5,488	9,735	13,019	16,082	19,844	23,173	27,020	31,184	34,378	37,736	41,936	41,936											



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

FIFTH ANNUAL WORK PLAN PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 2 OF 3

DESCRIPTION (HOURS)		1989												TOTALS	
		JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE		
M Community Relations	Plan	304	320	384	320	288	384	304	320	400	320	320	384	4,048	
	Current														
	Cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048		
Actual	Plan	293	290	361	310	249	292	248	204	375	304	233	300	3,459	
	Current														
	Cumulative	293	583	944	1,254	1,503	1,795	2,043	2,247	2,622	2,926	3,159	3,459		
P Safety and Security	Plan	456	480	576	480	432	576	456	480	600	480	480	576	6,072	
	Current														
	Cumulative	456	936	1,512	1,992	2,424	3,000	3,456	3,936	4,536	5,016	5,496	6,072		
Actual	Plan	272	320	352	344	416	432	424	464	544	424	432	536	5,040	
	Current														
	Cumulative	272	592	944	1,288	1,704	2,216	2,640	3,104	3,648	4,072	4,504	5,040		
D Quality Assurance	Plan	304	480	384	320	208	464	224	400	320	240	240	464	4,048	
	Current														
	Cumulative	304	784	1,168	1,488	1,696	2,160	2,384	2,784	3,104	3,344	3,584	4,048		
Actual	Plan	240	263	441	406	352	481	406	411	681	552	510	645	5,388	
	Current														
	Cumulative	240	503	944	1,350	1,702	2,183	2,589	3,000	3,681	4,233	4,743	5,388		
K Project Administration	Plan	912	960	1,152	960	864	1,152	912	960	1,200	960	960	1,312	12,304	
	Current														
	Cumulative	912	1,872	3,024	3,984	4,848	6,000	6,912	7,872	9,072	10,032	10,992	12,304		
Actual	Plan	752	798	1,327	905	742	1,021	865	910	1,023	870	807	1,027	11,047	
	Current														
	Cumulative	752	1,550	2,877	3,782	4,524	5,545	6,410	7,320	8,343	9,213	10,020	11,047		
S EO Administration	Plan	304	320	384	320	288	384	304	320	400	320	320	384	4,048	
	Current														
	Cumulative	304	624	1,008	1,328	1,616	2,000	2,304	2,624	3,024	3,344	3,664	4,048		
Actual	Plan	152	152	152	192	272	360	261	266	387	262	352	333	3,141	
	Current														
	Cumulative	152	304	456	648	920	1,280	1,541	1,807	2,194	2,456	2,808	3,141		
I Labor Relations	Plan	0	0	0	0	0	0	0	0	160	0	160	0	320	
	Current														
	Cumulative	0	0	0	0	0	0	0	0	160	160	320	320		
Actual	Plan	0	0	9	9	0	4	0	0	0	8	4	0	38	
	Current														
	Cumulative	0	0	9	18	18	22	22	22	26	34	38	38		
U Legal Counsel	Plan	0	0	0	0	0	160	0	160	0	160	0	160	640	
	Current														
	Cumulative	0	0	0	0	0	160	160	320	320	480	480	640		
Actual	Plan	0	0	0	0	0	5	0	0	0	0	0	0	5	
	Current														
	Cumulative	0	0	0	0	0	5	5	5	5	5	5	5		
Subtotal (HOURS)		25,320	26,800	31,744	26,720	24,480	32,400	26,464	28,560	35,800	29,360	29,680	35,152	352,480	
Actual	Plan	25,320	52,170	83,864	110,584	135,044	167,464	193,928	222,488	258,288	287,648	317,328	352,480		
	Current														
	Cumulative	25,320	77,540	131,404	242,088	377,132	544,640	738,568	961,056	1,219,344	1,506,992	1,824,320	2,176,800		

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD JUNE 1989

FIFTH ANNUAL WORK PLAN
PDCD MANHOURS BY FUNCTIONAL DEPARTMENT

PAGE 3 OF 3

DESCRIPTION (MMS)	1988												1989		
	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	TOTALS		
Other Direct Labor															
R. H. Parsons															
K Project Controls	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	582	0	65	87	76	240	320	320	400	400	480	1,378	1,378	1,378
L Procurement	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M Engineering Services/ Systems Integration	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	160	320	320	320	320	320	320	320	320	320	320	320	320	320	320
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	341	(189)	507	243	511	418	2,000	2,170	2,170	2,170	2,170	2,170	2,170	2,170	2,170
N Quality Assurance	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O Administration	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	83	80	(94)	61	73	32	56	148	90	113	224	924	924	924
Billingham Construction K Project Controls	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M Engineering Services/ Systems Integration	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	72	152	148	277	160	160	1,120	1,280	1,280	1,280	1,280	1,280	1,280	1,280	1,280
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	72	224	372	444	484	488	488	488	488	488	488	488	488	488	488
DeLeuw, Cather F General Services	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	80	160	240	320	400	480	560	640	720	800	880	960	960	960	960
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
M Engineering Services/ Systems Integration	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	160	320	320	320	320	320	320	320	320	320	320	320	320	320	320
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	0	94	145	145	159	161	225	278	316	343	359	359	359	359	359
Subtotal	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	400	800	800	800	800	800	800	800	800	800	800	800	800	800	800
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	413	772	772	772	772	772	772	772	772	772	772	772	772	772	772
TOTAL DIRECT LABOR HOURS	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan	Current	Plan
	25,720	27,340	32,364	27,340	25,200	33,720	27,164	29,128	34,320	30,160	30,400	35,952	344,320	344,320	344,320
I Negative due to correction to prior period accruals.	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual
	23,616	26,404	33,771	29,131	26,925	34,953	28,914	30,708	37,845	31,613	31,323	34,672	371,709	371,709	371,709

Parsons-Dillingham-De Leuw, Cather



SECTION III

**EQUAL OPPORTUNITY
PERFORMANCE**



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

III. EQUAL OPPORTUNITY PERFORMANCE

DBE Participation

The monthly DBE participation for the Fifth Annual Work Plan for June measured on the basis of accrued total cost was 20.0%, 3.0% above the 17% goal. The cumulative percentage for the Fifth Annual Work Plan was 18.5%, 1.5% above the 17% goal (Figure 1).

WBE Participation

The monthly WBE participation for the Fifth Annual Work Plan for June measured on the basis of accrued total cost was 4.2%, 1.2% above the 3% goal. The cumulative percentage for the Fifth Annual Work Plan was 4.5%, 1.5% above the 3% goal (Figure 2).

Affirmative Action Analysis

The Affirmative Action Analyses for minorities and women, as indicated in Figures 3 and 4, exceeds the established goals of 17% for minorities, and 8% for women by 21% and 0% respectively.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE

REPORT

FIFTH ANNUAL WORK PLAN

PCCD

PERIOD JUNE 1989

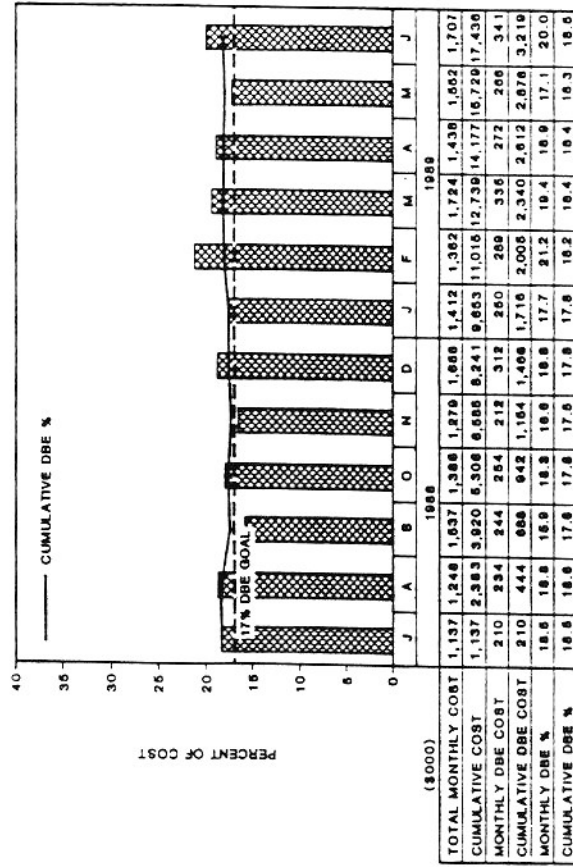


FIGURE 1 - DBE ANALYSIS

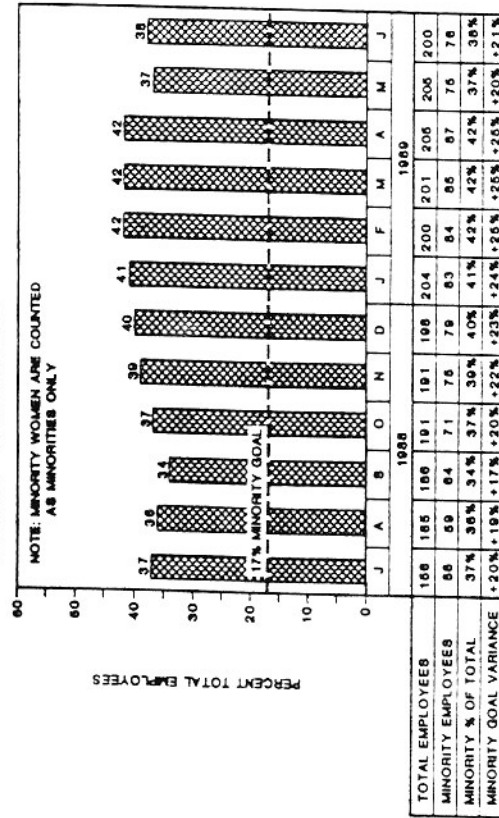


FIGURE 3 - MINORITY AFFIRMATIVE ACTION ANALYSIS

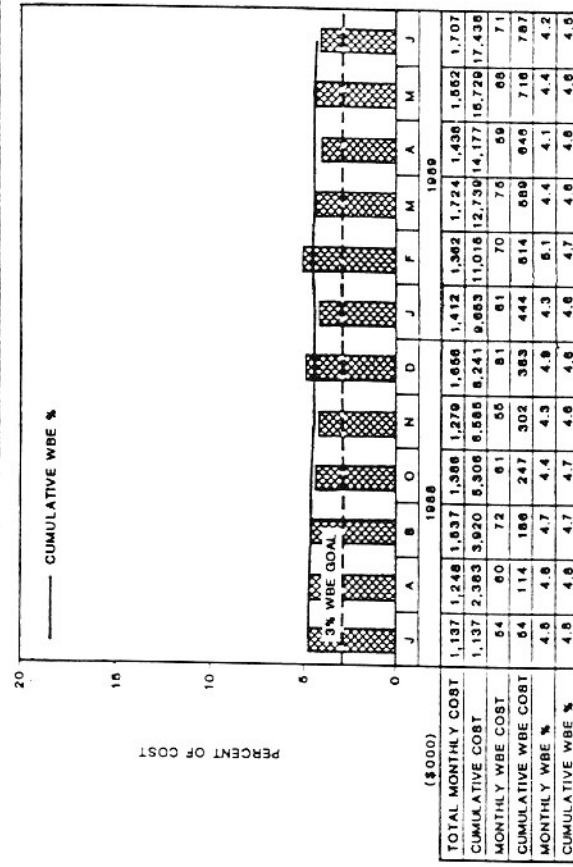


FIGURE 2 - WBE ANALYSIS

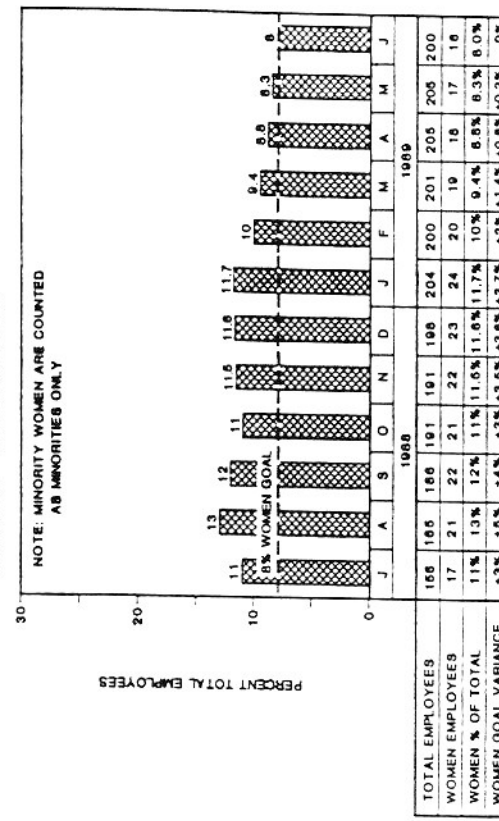


FIGURE 4 - WOMEN AFFIRMATIVE ACTION ANALYSIS

SECTION IV

SCHEDULE PERFORMANCE





LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

POCD

PERIOD JUNE 1989

IV. SCHEDULE PERFORMANCE

CONTRACTOR SUBMITTALS - During this period, 370 submittals were received from the Construction Contractors and 220 were carried over from May. 355 packages were processed (approved, approved-as-noted, rejected and reviewed for record only) and returned to the Contractors as shown in the following tabulation. The balance (235) are still under review.

Contracts	Carryover From May	No. of Submittals Received in June	Submittals Processed Within 30 Days	Submittals Processed In Over 30 Days	Carryover to July
A112 ✓	15	17	18	0	14
A130	24	33	27	2	28
A135	11	27	26	1	11
A135BH	15	30	28	0	17
A141	22	18	22	7	11
A145/A145A	16	34	33	0	17
A146	7	17	12	1	11
A165	59	87	74	2	70
A167	1	6	4	0	3
A171	15	18	26	0	7
A175	12	12	17	0	7
A610/A115	5	14	10	0	9
A612	0	4	1	0	3
A615	1	0	0	1	0
A616	6	1	0	0	6
A620	4	21	11	0	14
A630	2	3	3	0	2
A640	0	22	19	2	1
A710	2	3	4	0	1
A732 ✓	1	0	0	0	1
A740	1	3	2	0	0
A745	0	0	0	0	0
A750	1	0	1	0	0
A795	0	0	0	0	0
Total	220	370	338	17	235

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

Construction Package Reviews - Analysis of the activities on the "Design Packages Status Window Report, Current Period", (Page 19), shows the following document review:

- o Constructibility Reviews - Completed constructibility reviews for A116/100%, Yard Site Security Fencing and A187/100%, Wilshire/Alvarado Station, Stage II.

Training Programs - The following training program for PDCD personnel was underway during the June period:

- o American Concrete Institute Inspector Qualification Training - Certified training for 15 PDCD Field Office Inspectors to perform inspection and testing of concrete.

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD JUNE 1989

DESIGN PACKAGE STATUS WINDOW REPORT - CURRENT PERIOD
5-27-89 TO 6-30-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-116	YARD SITE SECURITY FENCING	DWGS	FS100%		06-16-89	06-22-89	06-26-89		
A-116	YARD SITE SECURITY FENCING	SPEC	FS100%		06-16-89	06-22-89	06-26-89		
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	DWGS	FS100%	06-01-89	05-22-89	06-12-89	06-13-89		ADVANCE DWGS.
A-187	WILSHIRE/ALVARADO STATION (STAGE II)	SPEC	FS100%	06-01-89	06-01-89	06-12-89	06-13-89		

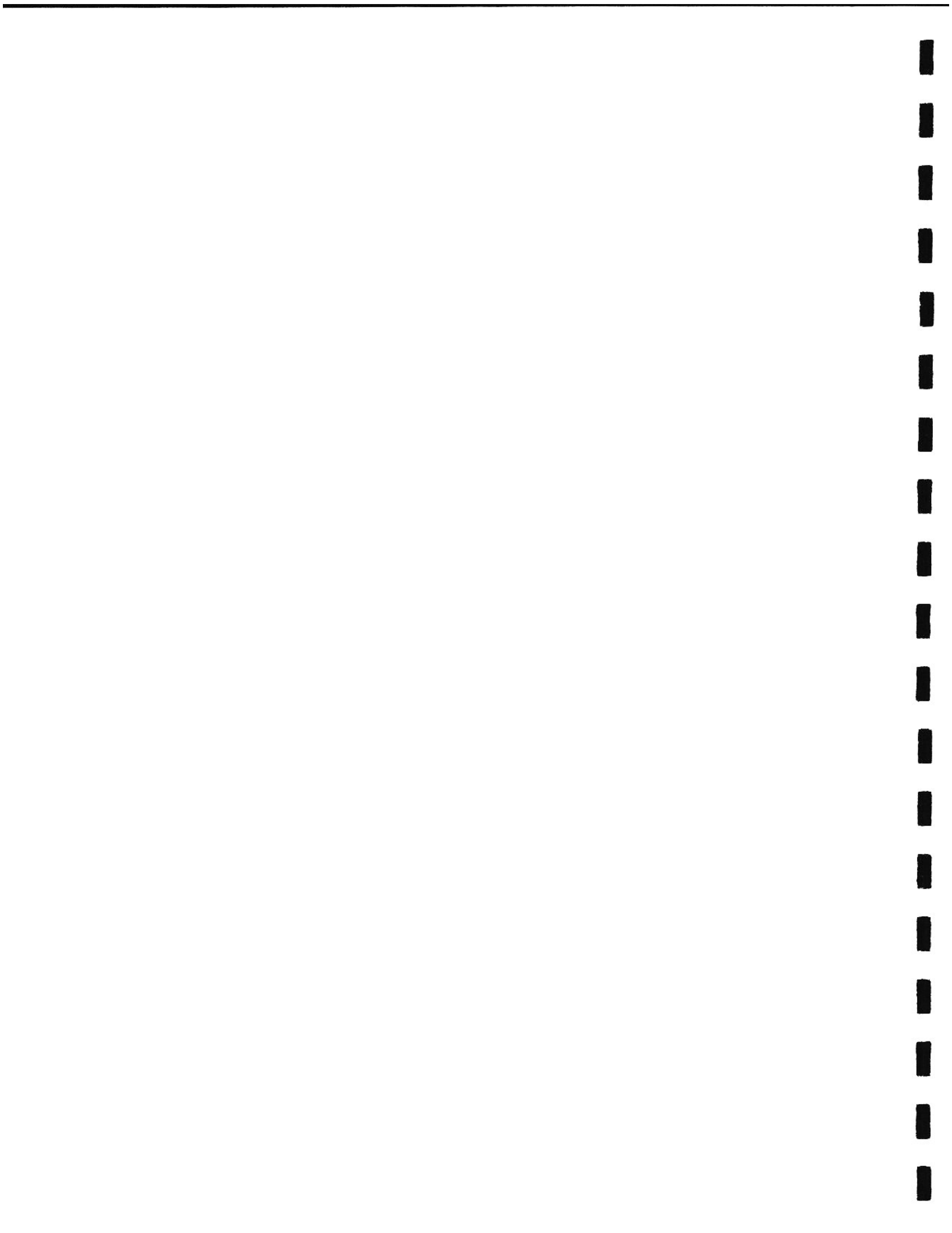
**

4 records listed. 4 values listed.

Review Codes : LT60 - Less than 60%
PF90 - Prefinal 90%
CAR- Claims Avoidance Review
NOTE : Based on 7-6-89, MRTC Design Review Schedule

IP60 - In progress 60%
FS100 - Final submittal 100%
CE - Check Estimate

PF85 - Prefinal 85%
DC100 - Final design complete 100%



SECTION V

COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

V. COST PERFORMANCE

FIFTH ANNUAL WORK PLAN

Total incurred costs of \$1,657,096 (Page 25) for CM Direct Services (without General Condition Items) for the period were under the plan of \$1,659,574 by \$2,478. This variance results from the net effect of Other Direct Costs (ODCs) being under the plan by \$36,816 and Labor expenditures (total PDCD and subcontractors) being over the plan by \$34,338.

The estimate at completion for the month of June and the cumulative costs for Total CM Services (including General Condition Items) incurred through June, were \$17,435,582 against a plan of \$17,625,378 resulting in an under plan expenditure of \$189,796 (Page 25). Extracting the General Condition Items and reporting them separately, the June CPR forecasts a CM Direct Services estimate at completion of \$16,573,927 versus a plan of \$16,961,078 for an under plan expenditure of \$387,151.

GENERAL CONDITION ITEMS

General Condition Items (GCI's) expenditure of \$48,627 were under the plan of \$144,188 for the period by \$94,561. This report forecasts an estimate at completion (EAC) in the 5th AWP period for GCI's of \$861,655 versus a plan of \$664,300, for a projected overplan expenditure of \$197,355. (Page 24)

LABOR COSTS

The average hourly labor rate, including burdens and fees, experienced for the period was \$42.07/hr. compared to a plan rate of \$41.96 (-)/hr., resulted in a difference of \$0.11 per hour.

The variances can be summarized into two categories:

STAFFING VARIANCE

3.75 equivalent staff over plan @ 192
hours at \$41.9573/hour =

IMPACT ON JUNE COSTS

\$ 30,209



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

RATE VARIANCE

191 actual staff equivalent @ 192 hours
@ \$0.11259/hour =

4,129

JUNE COST VARIANCE TO PLAN

\$ 34,338

OTHER DIRECT COSTS

Other Direct Costs (ODCs) were under the plan for the period by a net of \$36,816 as follows:

DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS	
	BUDGET	ACTUAL	BUDGET	VARIANCE
(1)Field Office Expenses	61,589	48,653	718,100	- 91,076
(2)Office Equipment	16,371	6,165	181,900	- 19,800
(3)Travel & Relocation	28,550	20,135	325,000	-170,287
(4)Vehicles & Maintenance	6,225	4,910	93,600	- 41,585
(5)Reproduction	7,152	7,068	75,600	- 12,960
(6)Telephone & Telex	8,844	6,894	93,500	- 27,131
(7)Computer Operation Support	3,238	2,000	38,900	- 11,752
(8)Gross Receipt Tax	9,643	8,592	94,230	- 1,230
(9)Field Equipment	9,513	9,892	105,700	- 41,889
S/T ODC's	151,125	114,309	1,726,530	-417,710
			<u>[-36,816]</u>	

NOTES

- (1) Field Office Expenses - underexpenditure due to underrun in equipment maintenance and supplies.
- (2) Office Equipment - underexpenditure due to the purchase of Personal Computers and related software.
- (3) Travel and Relocation - underexpenditure due to lower than planned expenditures combined with an accrual adjustment.
- (4) Vehicles & Maintenance - underexpenditure due to lower than planned maintenance costs.
- (5) Reproduction - underexpenditure due to lower than planned reproductions.
- (6) Telephone and Telex - underexpenditure due to lower communications cost.
- (7) Computer Operation Support - underexpenditure due to lower than normal DMCS costs.
- (8) Gross Receipt Tax - varies directly with the actual cumulative rate of expenditure per period.
- (9) Field Equipment - overexpenditure due to higher than planned expenditures.

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LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD JUNE 1989

CM COST PERFORMANCE - JUNE 1989
FIFTH ANNUAL WORK PLAN
CONSTRUCTION
(\$000)

	PLANNED	ACTUAL	VARIANCE	%
PDCD				
LABOR, BURDENS, FEE				
CUMULATIVE THROUGH MAY	\$ 8739	\$ 8855	\$ 116	1.33%
CURRENT MONTH	937	1004	67	7.15%
CUMULATIVE THROUGH JUNE	\$ 9676	\$ 9859	\$ 183	1.89%
TRAVEL AND ODC'S				
CUMULATIVE THROUGH MAY	\$ 1576	\$ 1,195	\$ (381)	-24.18%
CURRENT MONTH	151	114	(37)	-24.50%
CUMULATIVE THROUGH JUNE	\$ 1727	\$ 1,309	\$ (418)	-24.20%
SUBCONTRACTORS				
CUMULATIVE THROUGH MAY	\$ 4,987	\$ 4,867	\$ (120)	-2.41%
CURRENT MONTH	571	539	(32)	-5.60%
CUMULATIVE THROUGH JUNE	\$ 5,558	\$ 5,406	\$ (152)	-2.73%
SUBTOTAL CM DIRECT SERVICES				
CUMULATIVE THROUGH MAY	\$ 15,302	\$ 14,917	\$ (385)	-2.52%
CURRENT MONTH	1,659	1,657	(2)	-0.12%
CUMULATIVE THROUGH JUNE	\$ 16,961	\$ 16,574	\$ (387)	-2.28%
GENERAL CONDITION ITEMS				
CUMULATIVE THROUGH MAY	\$ 520	\$ 812	\$ 292	56.15%
CURRENT MONTH	144	50	(94)	-65.28%
CUMULATIVE THROUGH JUNE	\$ 664	\$ 862	\$ 198	29.82%
TOTAL CM SERVICES				
CUMULATIVE THROUGH MAY	\$ 15,822	\$ 15,729	\$ (93)	-0.59%
CURRENT MONTH	1,803	1,707	(96)	-5.32%
CUMULATIVE THROUGH JUNE	\$ 17,625	\$ 17,436	\$ (189)	-1.07%
HOURS				
CUMULATIVE THROUGH MAY	324,368 hrs	335,037 hrs	10,669 hrs	3.29%
CURRENT MONTH	35,952	36,672	720	2.00%
CUMULATIVE THROUGH JUNE	360,320 hrs	371,709 hrs	11,389 hrs	3.16%

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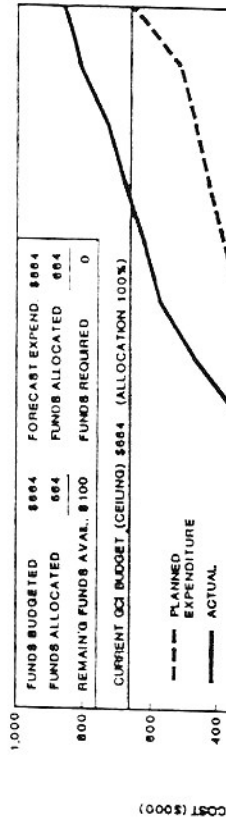
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

FIFTH ANNUAL WORK PLAN

PDCD

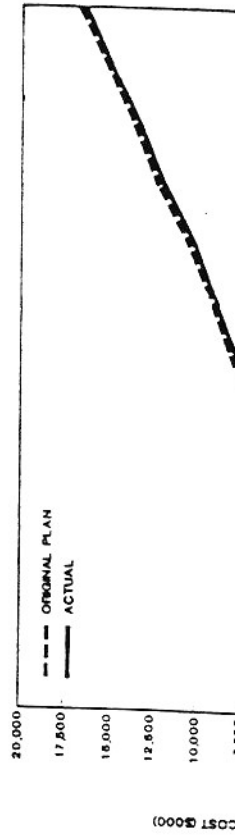
PERIOD JUNE 1989



COST (\$000)

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLANNED EXPEND	44	106	150	211	255	289	343	386	432	478	520	564
ACTUAL	35	80	108	280	333	470	561	631	696	736	812	862
VARIANCE	(9)	(26)	(48)	169	78	171	218	245	264	258	292	197
ETC	520	583	488	403	331	266	311	270	217	162	81	0
EAC	559	663	664	693	664	736	692	601	506	387	234	562

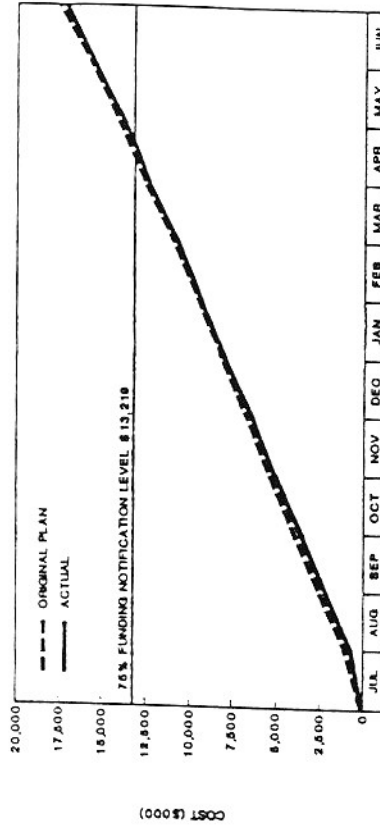
GENERAL CONDITION ITEMS CUMULATIVE COST PERFORMANCE



COST (\$000)

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLAN	1,244	2,656	4,050	5,366	6,684	8,111	9,395	10,767	12,446	13,870	15,302	16,901
ACTUAL	1,095	2,303	3,784	5,046	6,262	7,770	9,078	10,356	12,060	13,441	14,817	16,974
VARIANCE	(149)	(353)	(366)	(320)	(1422)	(1341)	(1317)	(1411)	(1386)	(1429)	(1485)	(1977)
ETC	15,667	14,667	13,207	11,916	10,709	9,117	7,880	6,339	4,853	3,241	1,566	0
EAC	16,906	16,962	16,961	16,962	16,961	16,967	16,732	16,724	16,703	16,662	16,612	16,974

CM DIRECT SERVICES CUMULATIVE COST PERFORMANCE



	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
PLAN	1,285	2,692	4,210	5,670	6,819	8,411	9,732	11,186	12,870	14,346	15,822	17,625
ACTUAL	1,137	2,323	3,820	5,308	6,586	8,241	9,683	11,016	12,739	14,177	15,729	17,436
VARIANCE	(148)	(369)	(390)	(1362)	(1233)	(1170)	(1054)	(1169)	(1131)	(1169)	(1093)	(1190)
ETC	19,487	18,242	13,705	12,318	11,040	9,385	7,871	6,809	4,870	3,363	1,777	0
EAC	17,624	17,624	17,624	17,624	17,624	17,624	17,624	17,624	17,624	17,624	17,624	17,624

TOTAL CM SERVICES (INCLUDING G.C.I.'s) CUMULATIVE COST PERFORMANCE



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING JUNE 30, 1989 REPORT SUMMARIZED BY RESPONSIBILITY

CONSTRUCTION GENERAL CONDITION ITEMS

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS		CUMULATIVE DOLLARS		ESTIMATE		AT COMPLETION DOLLARS	
	BUDGET	ACTUAL	BUDGET	ACTUAL	TO COMPL	VARIANCE	BUDGET	ESTIMATE
B GUARD SERVICES	7,750	5,967	-1,783	71,908	-21,092	0	93,000	71,908
D FIELD OFFICE TRAILERS	0	0	0	0	-34,000	0	34,000	0
E CLEAN-UP OF FIELD SITES	0	1,660	1,660	18,348	18,348	0	0	18,348
F WTF EXPENSES	0	0	0	24,703	24,703	0	0	24,703
G SIGNS AND BARRICADES	0	0	0	40,317	40,317	0	0	40,317
X CONSTRUCTION PHOTO	3,525	5,000	1,475	55,955	13,655	0	42,300	55,955
Y TESTING PROGRAM	32,913	37,000	4,087	650,424	255,424	0	395,000	650,424
S/T ALLOCATED	44,188	49,627	5,439	861,655	297,355	0	564,300	861,655
Z UNALLOCATED	100,000	0	-100,000	0	-100,000	0	100,000	0
S/T GEN. COND. ITEMS	144,188	49,627	-94,561	861,655	197,355	0	664,300	861,655



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

PDCD CM SERVICES - 5TH ANNUAL WORK PLAN COST REPORT FOR MONTH ENDING JUNE 30, 1989 REPORT SUMMARIZED BY RESPONSIBILITY CONSTRUCTION

RESPONSIBILITY CD-DESCRIPTION	CURRENT PERIOD DOLLARS BUDGET	ACTUAL	VAR.	CUMULATIVE DOLLARS BUDGET	ACTUAL	VARIANCE	ESTIMATE TO COMPL	BUDGET	ESTIMATE	VARIANCE
A PROJECT MANAGEMENT	99,519	94,510	-4,909	1,049,100	1,012,407	-36,693	0	1,049,100	1,012,407	-36,693
C FAC. CONSTRUCTION	524,948	594,229	69,281	5,131,561	5,700,864	569,303	0	5,131,561	5,700,864	569,303
E SYSTEMWIDE CONST	59,696	67,945	8,249	605,480	621,623	16,143	0	605,480	621,623	16,143
F GENERAL SERVICES	100,378	88,144	-12,234	1,084,962	1,202,995	118,033	0	1,084,962	1,202,995	118,033
K PROJECT CONTROLS	258,606	262,119	3,513	2,581,921	2,681,143	-99,222	0	2,581,921	2,681,143	-99,222
L PROCUREMENT	25,597	17,835	-7,762	269,840	228,621	-41,219	0	269,840	228,621	-41,219
M ENGR. SVCS./SYST. INTEGR.	197,951	221,305	23,354	2,108,035	2,280,211	-172,176	0	2,108,035	2,280,211	-172,176
N COMMUNITY RELATIONS	14,617	11,993	-2,624	154,087	135,368	-18,719	0	154,087	135,368	-18,719
P SAFETY	26,569	25,098	-1,471	280,081	229,680	-50,401	0	280,081	229,680	-50,401
Q QUALITY ASSURANCE	26,082	31,837	5,755	232,452	263,901	31,449	0	232,452	263,901	31,449
R PROJECT ADMIN.	50,468	45,830	-4,638	436,598	417,299	-19,299	0	436,598	417,299	-19,299
S EQUAL OPPORTUNITY	17,764	13,909	-3,855	187,260	133,278	-53,982	0	187,260	133,278	-53,982
T LABOR RELATIONS	0	0	0	21,405	2,492	-18,913	0	21,405	2,492	-18,913
U LEGAL	20,000	0	-20,000	80,000	3,887	-76,113	0	80,000	3,887	-76,113
S/T LABOR-BRON & OH	1,422,195	1,474,854	52,659	14,222,782	14,313,769	90,987	0	14,222,782	14,313,769	90,987
1 FIELD OFFICE EXPENSES	61,589	48,653	-12,936	718,100	627,024	-91,076	0	718,100	627,024	-91,076
2 OFFICE EQUIPMENT	16,371	6,165	-10,206	181,900	162,100	-19,800	0	181,900	162,100	-19,800
3 TRAVEL & RELOCATION	28,550	20,135	-8,415	325,000	154,713	-170,287	0	325,000	154,713	-170,287
4 VEHICLES & MAINT.	6,225	4,910	-1,315	93,600	52,015	-41,585	0	93,600	52,015	-41,585
5 REPRODUCTION	7,152	7,068	-84	75,600	62,640	-12,960	0	75,600	62,640	-12,960
7 TELEPHONE & TELEX	8,844	6,894	-1,950	93,500	66,369	-27,131	0	93,500	66,369	-27,131
8 COMPUTER OPERATION SUPPT.	3,238	2,000	-1,238	38,900	27,148	-11,752	0	38,900	27,148	-11,752
9 GROSS RECEIPT TAX	9,643	8,592	-1,051	94,230	93,000	-1,230	0	94,230	93,000	-1,230
A FIELD EQUIPMENT	9,513	9,892	379	105,700	63,811	-41,889	0	105,700	63,811	-41,889
S/T ODC'S	151,125	114,309	-36,816	1,726,530	1,308,820	-417,710	0	1,726,530	1,308,820	-417,710
W FUCD FEE	45,000	45,000	0	595,000	595,000	0	0	595,000	595,000	0
X S/C FEE	41,254	22,933	-18,321	416,766	356,338	-60,428	0	416,766	356,338	-60,428
S/T FEES	86,254	67,933	-18,321	1,011,766	951,338	-60,428	0	1,011,766	951,338	-60,428
S/T CM DIRECT SVCS	1,659,574	1,657,096	-2,478	16,961,078	16,573,927	-387,151	0	16,961,078	16,573,927	-387,151
S/T GEN. COND. ITEMS	144,188	49,627	-94,561	664,300	861,655	197,355	0	664,300	861,655	197,355
TOTAL CM SERVICES	1,803,762	1,706,723	-97,039	17,625,378	17,435,582	-189,796	0	17,625,378	17,435,582	-189,796

PERCENT OF BUDGET EXPENDED = 99%

NEGATIVE VARIANCE INDICATES UNDERRUN

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SECTION VI
ADDITIONAL ACTIVITIES
PERFORMED IN JUNE

MTA LIBRARY





LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

VI. ADDITIONAL ACTIVITIES PERFORMED IN JUNE

The following activities performed by the CM functional organization are in addition to the activities presented in other sections of this report.

A. ADMINISTRATION AND ACCOUNTING

- (1) Continued to assist the Resident Engineers in the supply of administrative material and the assignment/orientation of new field personnel at the field offices.
- (2) Continued processing of personnel (acquisition and termination).
- (3) Coordinated audit responses from Associate Subcontractors to RTD Audit Department.

B. Quality Assurance

- (1) Conducted field surveillance of welding activities in support of Contracts A135, A145, A165, A171 and shop fabrication surveillance at Paramount Steel, COWELCO, and Angeles Steel.
- (2) Continued monitoring of Testing Lab (Smith-Emery) performance and costs.
- (3) Continued surveillance of HDPE installation (A141, A165, A171 and A175) and witnessing of fire protection system hydrostatic tests at A165, A175, and A112.
- (4) Conducted field audit of lift drawings (A130 and A141) to verify conformance with review and approval process.

C. Equal Opportunity Administration

- (1) Monitored Equal Opportunity reporting requirements (i.e. SSA&P Report, Monthly Employment Utilization Reports, Certified Payroll) for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745, A750 and A795.
- (2) Conducted project site visits/employee interviews at the following sites: A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115.
- (3) Processed penalty assessments for the late submittal of the Monthly Employment Reports for Contracts A112, A130, A135, A141, A144, A145, A165 and A610/115.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

D. Contracts and Procurement

- (1) Issued RFQ's/RFP's and received and evaluated quotes/proposals for Reproduction Services and Temporary Personnel Services.
- (2) Prepared and submitted for District approval a portion of Amendments for Associate Subcontracts and other Subcontracts covering AWP-6 requirements.
- (3) Issued Amendments for two Associate Subcontractors to increase funds to cover remaining AWP-5 requirements.

E. Community Relations

- (1) Coordinated community notifications for A141, A145, A146, A165 and A175 and LAPD traffic control assistance for A141.
- (2) Coordinated and resolved traffic mitigation concerns for tenants along Hill St. affected by A141, and A146 traffic access plans, and for tenants in the 7th/Flower area affected by A165 and A146 (under 7th St.).
- (3) Provided assistance to A141, A145, A146 and A165 for problems caused by street closures and lane restrictions, blocked access, noise and accidents.
- (4) Assisted with coordination of the U.S. Senator Pete Wilson and U.S. DOT Secretary Skinner media event for 7th/Flower Station.
- (5) Assisted RTD/GPA in coordination for the scheduled July 13th Community Awareness Meeting for 7th/Flower tenants.
- (6) Provided assistance to PDCD/RTD in coordinating site visits and responding to media requests.
- (8) Processed 39 inquiries/complaints.
- (9) Provided assistance to A145 tenants during Hill Street water line repairs.
- (10) Provided assistance between A175 Contractor and 7th St. Metro Mall Contractor for access to alley way.

F. Safety and Security

- (1) Performed daily site safety, health and security surveillances on a two shift basis and prepared written reports for the A112, A130, A135, A141, A145, A146, A165, A171, A175 and A610/A115 construction projects.
- (2) Coordinated activities of the Systemwide Security Guard Service and the Systemwide Clean-up Service subcontractors.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

(3) Review the A167 and A610/A115 Safety Representative candidates for assignment to the project.

G. Construction Operations

- (1) Continued construction management (CM) services for Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750 (4984, 4986, 4988) and A795; monitoring of Master Agreement Work and submittal reviews.
- (2) Continued coordination of traffic control plans and street closures with city agencies for A130, A141, A145, and A165.
- (3) Continued coordination of MOS-1 inspections with LADOT.
- (4) Processed a total of 6 Traffic and Utilities related submittals.
- (5) Continued monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (6) Continued monitoring Discharge Monitoring Stations at the Ballona Creek and Los Angeles River.
- (7) Prepared and submitted April and May Discharge Monitoring Report (DMR) to the California Regional Water Quality Board (CRWQCB).
- (8) Prepared and submitted April and May LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (9) Relocated continuous water monitoring instrument at Los Angeles River.
- (10) Conducted dye study on LA River to determine mixing characteristics of Metro Red Line discharges.
- (11) Prepared application package for 9 permanent and 14 temporary NPDES water discharge permits.
- (12) Conducted contamination evaluation of soil samples from A130 chemical grout borings.
- (13) Negotiated clearance for disposal of contaminated soil from A-146, A-175 and A-145 to a Class II landfill.
- (14) Reviewed and approved final asbestos submittal and clearance report for asbestos abatement by others at Roosevelt Building, A165.
- (15) Completed and submitted closure report for tank abandonment at A145.
- (16) Continued checking contractor's control points and layout.
- (17) Continued monitoring instrumentation, building and ground settlement points on A135, A141, A145, A146, A165, A171 and A175.
- (18) Continued location survey at shop and yards contracts.
- (19) Checked slabs poured at A141 and A175 excavation.
- (20) Continued checking arch form alignment AL tunnel (A171).
- (21) Checked layout of A165 station.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

H. Engineering Services

- (1) In conjunction with review of the A141 tunnel hard rock claim, recovered and tested samples of the Puente Formation siltstone.
- (2) Initiated once-per-week elevation surveys of the A171 fire station to assure the cessation of settlements prior to repairs being undertaken.
- (3) Rejected the A135 geotechnical/environmental report compiled by Geofon, the Prime Contractor's consultant, and obtained agreement that they will modify it.
- (4) Initiated a set of Civic Center Station instrumentation readings immediately after the earthquake of June 12, and found that loads on the support system had increased by less than 1 percent.
- (5) Observed A135 tieback tests and examined preliminary data on proposed adhesion values.
- (6) Collected the pre-grout borehole test samples from the A130 area scheduled for chemical grouting through vertical pipes.
- (7) Began compiling geologic map of the A141 tunnel area where a hard rock claim is pending.
- (8) Began periodic A141 site visits to observe face geology in the southern reach of the AL tunnel.
- (9) Began collecting geologic samples from A141 tunnels and storing them in case future strength testing is required for the evaluation of ground conditions.
- (10) Transmitted A130 busway geologic data to CalTrans for their use in reviewing the bent #4 underpinning submittal.
- (11) Participated in working sessions with field office personnel and Contractors for Contracts A145 and A165 to resolve numerous design clarification or documentation problems.
- (12) Responded to 115 requests for information or documentation clarification from various contractors.
- (13) Processed 8 field inquiries with MRTC to obtain clarification of design requirements.
- (14) Submitted constructibility review comments for Contract A116, Yard Security Fencing, final design; Contract A187 Wilshire/Alvarado Station Stage II, final design.
- (15) For Contract A112✓ - Approved 13 Contractor submittals for metal decking, manual with list of materials for sprinkler system & fire pump, O & M Manual for fire pump and sprinkler system, plumbing items for fuel oil, crane rail data and sample of bolt assembly, wheel boring pits calculations, cable & wire data, welding procedures, steam cleaning pit bar list and placing drawing, sanitary sewers miscellaneous items, grating for steam pit, and bar lists for approach slabs and racks.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PCCD

PERIOD JUNE 1989

Approved -as-Noted 2 Contractor submittals for 0 & M Manual for traction power DC switchboard, yard negative return disconnect switch and negative bus box, and 0 & M Manual for plumbing items.

Rejected 2 Contractor submittals for Monthly Progress reports.

Reviewed For Record Only 1 Contractor submittal for network diagram.

(16) For Contract A130 - Approved 12 Contractor submittals for calculations for tieback anchorage details, mix designs @ 0.45 water/cement ratio, traffic control plan, rebar mill certificates for slurry wall panels, fire valve pit vault, protective coating for precast concrete sewer manholes, painting material data, precast walkway panels, and concrete sealer/curing compound.

Approved-as-Noted 13 Contractor submittals for dewatering procedures and meter catalog cuts, chemical grouting program for Santa Ana Freeway, tunnel boring machine, supplement to underpinning @ Bent #4 transfer beam, traffic control plan for chemical/compaction grouting, rebar release details for footings east wing walls, steel placement details, instrumentation locations in tunnel area, fire protection welding procedures, and calculations for lateral support of busway transfer beam & miscellaneous concrete anchors.

Rejected 4 Contractor submittals for lift drawing for Monthly Status Reports, and tunnel excavation equipment.

(17) For Contract A135 - Approved 14 Contractor submittals for slurry wall layout, mix design for .45 w/c ratio, partial demolition & support of transformer vault #3, rebar mill test reports, paint data for temporary bridge, electrical manhole, tieback anchor design for slurry wall, and 34.5 kv cable tests.

Approved-as-Noted 9 Contractor submittals for dewatering procedures and equipment data sheets, precast walkway panel concrete, calculations for cable tray & support, lift of additional electrical manholes with water stop detail in lieu of keyway, demolition procedure for passenger tunnels, haul permit, installation of load cells, and tunnel/ramp demolition.

Rejected 3 Contractor submittals for welding procedures, concrete bond material, and Monthly Status Report.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

Reviewed For Record Only 1 Contractor submittal for inclinometer data.

(18) For Contract A135BH (Baggage Handling) - Approved 12 Contractor submittals for door schedule, underground street level piping, fire valve connections, Stair #1 excavation support, hydromat product information, concrete mix design, paint data, mill certificates, fire valve pit, toilet accessories, and manhole details.

Approved-as-Noted 12 Contractor submittals for vent details, partial street level HVAC layout, anchor bolt details, partial street level plumbing details, overhead piping at street level, ceiling grid board samples, sheet metal drawing, welding procedures, channel & tube support, and footing calculations.

Rejected 4 Contractor submittals for basement piping, overhead piping at street level, mechanical room details, and fire valve pit.

(19) For Contract A141 - Approved 13 Contractor submittals for ground surface settlement points, rebar reinforcement mill test reports, Arizona Pacific Wood certificates of treatment for tunnel lagging, Portland Cement concrete mix design, concrete slab electro-form inserts product data, and cast-in-place concrete lift drawings for mezzanine wall.

Approved-as-Noted 14 Contractor submittals for various concrete lift drawings, north blast relief shaft backfill support plan bulkhead report, steel delivery receipts/mill certificates, reshoring for structural slabs, and temporary lane closure at 1st/Hill intersection.

Rejected 2 Contractor submittals for traffic plan during south blast relief shaft backfill, and concrete mix design.

(20) For Contract A145 - Approved 15 Contractor submittals for hydrocarbon resistant elevation casings, vendor data for tamper switches for OS&Y valves for fire protection, pre-load gauge certificate test report, invert slab bulkhead, 4" & 2" mud slab concrete mix design, data on concrete placing equipment, rebar drawings invert area, material list & welding procedures for hydraulic lines, and product data for cold applied pipe tape on hydraulic lines.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

Approved-as-Noted - 13 Contractor submittals for HDPE panel layout, HDPE penetration details, exterior wall miscellaneous details, rebar drawing details, Phase II southeast entrance excavation support design, catalog cuts-snap tie data, slurry concrete mix designs for utility work, welding procedures for mechanical work, and mezzanine falsework & forms.

Rejected 5 Contractor submittals for welders' qualifications, progress report, monthly narrative, material list & welding procedures for hydraulic lines, and rebar splice proposal for invert exterior wall.

(21) For Contract A146 - Approved 6 Contractor submittals for sump pump catalog data, embedded inserts & concrete arch data, wire & cable catalog data, and invert concrete placements.

Approved-As-Noted 4 Contractor submittals for walkway dimensions, and worksite traffic control plans.

Rejected 3 Contractor submittals for monthly reports and schedule updates.

(22) For Contract A165 - Approved 46 Contractor submittals for various lift drawings, rebar drawings, mill test reports, elevator casings, and traffic detours.

Approved-as-Noted 30 Contractor submittals for various lift drawings for slabs and walls, column welding procedures, anchor plate details, grounding details, HDPE elevator casings, and traffic detours.

(23) For Contract A167 - Approved 1 Contractor submittal for temporary fencing plan at Home Savings Tower.

Approved-As-Noted 1 Contractor submittal for CPM schedule narrative.

Rejected 2 Contractor submittals for CPM schedule, and schedule of values.

(24) For Contract A171 - Approved 15 Contractor submittals for sump pump, exit light fixture Type Y, walkway lift drawings, wet standpipe system, catalog data for conduit ID tags, backfill grouting, tunnel receptacles, electrical tape, wires & cables, sump pump motor starter, and catalog data for permanent electrical equipment.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

Approved-as-Noted 6 Contractor submittals for air handling apparatus, tunnel lighting fixtures Type X, sump pump control panel, and backfill grouting.

Rejected 2 Contractor submittals for Monthly Schedule update, and light fixture Type X.

Reviewed For Record Only 3 Contractor submittals for ballast for Type X tunnel lighting fixtures, light fixtures Type X additional correspondence, and Type X light fixture clarification.

(25) For Contract A175 - Approved 12 Contractor submittals for revised concrete mix designs, concrete curing compound, literature on GRS conduit fittings, lift drawings for interior walls base to mezzanine floor, and precast concrete details.

Approved-as-Noted 4 Contractor submittals for concrete mezzanine level reshoring, mezzanine shoring plan, rebar drawings, and concrete form calculations for form wall.

Rejected 1 Contractor submittal for Monthly Progress narrative.

(26) For Contract A610/A115 - Approved 6 Contractor submittals for sanitary sewer lift station housing, catalog cuts for lighting fixtures, notarized certificates for insulation inspection test & depth hardening, Monthly Progress Status Report, rail thermometer, and Pacific Wood treatment quality control manual.

Approved-as-Noted 3 Contractor submittals for concrete mix designs, and bonded insulated rail joints.

Rejected 1 Contractor submittal for sanitary sewer lift station.

(27) For Contract A612 - Approved 1 Contractor submittal for contact rail production test report.

(28) For Contract A615 - Approved-As-Noted 1 Contractor submittal for quality assurance plan - final submission.

(29) For Contract A616 - Approved 1 Contractor submittal for production elastomer test results.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

(30) For Contract A620 - Approved 5 Contractor submittals for conduit & fittings, power & battery calculations, track circuit qualification test reports, and factory acceptance test reports for FA signals.

Approved-as-Noted 6 Contractor submittals for Monthly Schedule & Narrative, System Safety Program Plan, Civic Center Final Design Review, 5th/Hill Final Design Review, 7th/Flower Final Design Reviews, and Track & Cable Plans.

(31) For Contract A630 - Approved-as-Noted 2 Contractor submittals for 480 VAC switchgear.

(32) For Contract A640 - Approved 4 Contractor submittals for PA subsystem functional block diagrams, CTS equipment floor plan arrangement, power battery sizing, and preliminary design data package for vehicle radio subsystem.

Approved-as-Noted 6 Contractor submittals for communication equipment room floor plan, preliminary design review package fire and emergency management subsystem, power subsystem & computations, preliminary design review data package radio subsystems, and power subsystem & computations, preliminary design review data package radio subsystems, and power subsystem preliminary design data package.

Rejected 11 Contractor submittals for PA subsystems schematic & wiring diagrams, seismic detection electrical schematics, gas analyzers conditioning & pumps, gas monitoring tubing sizing & capacity calculations, gas monitoring displays & controls location drawings, seismic event detection equipment drawings, gas monitoring probe installation drawings, gas monitoring & seismic subsystem/equipment arrangement drawings, gas monitoring & seismic subsystem piping schematic, and preliminary design review gas monitoring & seismic detection subsystem.

(33) For Contract A710 - Approved 3 Contractor submittals for elevator car fixtures, elevator hardware samples, and Monthly Schedule Update.

Approved-as-Noted 1 Contractor submittal for handrail, deck, interior panel, skirt panel & access cover plate.

(34) For Contract A740 - Approved 1 Contractor submittal for Monthly Report and Schedule Update.



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

Rejected 1 Contractor submittal for QA program.

(35) For Contract A750 - Rejected 1 Contractor submittal for waste management final report for the Roosevelt Hotel.

I. PROJECT CONTROLS

- (1) Processed Change Requests: A112-CR-123, A112-CR-124, A112-CR-125, A112-CR-126, A112-CR-127, A112-CR-128, A130-CR-032, A135-CR-050, A141-CR-116, A144-CR-025, A144-CR-026, A145/145A-CR-139, A145-CR-141, A145-CR-144, A145-CR-145, A145-CR-146, A146-CR-028B, A146-CR-030A, A146-CR-036, A165-CR-074, A165-CR-079, A165-CR-080, A165-CR-081, A175-CR-050, A610/115-CR-068, A610/115-CR-071, and A610/115-CR-072.
- (2) Processed Change Notices: A130-CN-019, A130-CN-020, A135-CN-022, A141-CN-038, A141-CN-069, A141-CN-070, A144-CN-004, A145/145A-CN-043, A146-CN-011, A165-CN-035, A167-CN-002, A171-CN-014, A175-CN-012, A175-CN-028, A610/115-CN-007, and A610/115-CN-035.
- (3) Processed Change Orders: A112-CO-010II, A112-CO-046, A112-CO-046II, A112-CO-047, A112-CO-048, A112-CO-050II, A112-CO-051II, A130-CO-011, A130-CO-013II, A130-CO-022, A130-CO-023, A130-CO-024I, A130-CO-024, A135-CO-012, A135-CO-023, A135-CO-020I, A135-CO-022, A135-CO-002U, A135-CO-002V, A135-CO-002W, A135-CO-002X, A135-CO-002Y, A135-CO-002Z, A141-CO-010M.1, A141-CO-026, A141-CO-046, A141-CO-047, A144-CO-012, A144-CO-017, A144-CO-018, A144-CO-009, A144-CO-020, A144-CO-001, A145/145A-CO-011AII, A145/145A-CO-020AII, A145/145A-CO-033AIII, A145/145A-CO-034, A145/145A-CO-034A, A145/145A-CO-035, A145/145A-CO-037, A145/145A-CO-088, A146-CO-025, A165-CO-040, A175-CO-016B, A610/115-CO-025I, A610/115-CO-050, A610/115-CO-051I, A610/115-CO-052A, A610/115-CO-052I, A615-CO-001, A620-CO-008, A620-CO-009, A710-CO-003, and A751-CO-008.
- (4) Processed through TRACS, 47 executed Change Orders: A112-CO-002A, A112-CO-008B, A112-CO-053, A130-CO-011, A130-CO-015A, A130-CO-021, A135-CO-002U, A135-CO-002V, A135-CO-002W, A135-CO-002X, A135-CO-002Y, A135-CO-019, A141-CO-010N1, A141-CO-031A, A141-CO-033A, A141-CO-041, A141-CO-044, A141-CO-045, A141-CO-045A, A141-CO-046, A144-CO-005, A144-CO-005A, A144-CO-006, A144-CO-006A, A144-CO-019, A145-CO-037A, A145-CO-042A, A145-CO-084, A145-CO-087, A175-CO-015A, A175-CO-028, A610/115-CO-025A, A610/115-CO-028A, A610/115-CO-034A, A610/115-CO-039, A610/115-CO-041, A610/115-CO-045, A610/115-CO-046, A610/115-CO-047, A616-CO-010, A745-CO-003, A620-CO-005, A620-CO-006, A620-CO-007, A710-CO-003, A165-CO-027A, and A165-CO-029D.
- (5) Processed Potential Claims: A112-PC-049, A112-PC-056, A130-PC-011, A130-PC-017, and A135-PC-023.
- (6) Processed Change Technical Evaluations: A112-CR-124, A135-CR-050, A141-CR-113, A141-CR-114,



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- A141-CR-116, A141-CR-117, A145-145A-CR-139, A145-145A-CR-144, A145-145A-CR-145, A146-CR-28J, A146-CR-034, A146-CR-035, A146-CR-036, A165-CR-064A, A165-CR-078A, A175-CR-047, A610/115-CR-071, A610/115-CR-073, A650-CR-004, A650-CR-005, A650-CR-006, A650-CR-007, A650-CR-008, A650-CR-009, A650-CR-010, and A650-CR-011.
- (7) Processed Force Account Change Packages: A145-145A-CO-0258, A145-145A-CO-054, A146-CO-013, A165-CO-013, A165-CO-018, A165-CO-034, A171-CO-008, A171-CO-012, A610-CO-012, A610-CO-019, and A610-CO-040.
- (8) Processed Monthly Payment Estimates for 19 Contracts: A112, A130, A135, A141, A144, A145, A146, A165, A171, A175, A610/A115, A616, A620, A640, A710, A732, A740, A745, and A750.
- (9) Completed a Close-out reconciliation on 6 Force Account Change Orders: A145-CO-054, A146-CO-009A, A610-CO-019, A610-CO-040, A171-CO-008 and A171-CO-012.
- (10) Completed a final revision to 6th AWP.
- (11) Reviewed Contractor Monthly Progress Reports.
- (12) Prepared inputs to RTD Monthly Status Report.
- (13) Reviewed A167 Part I Schedule Resubmittal - approved as noted.
- (14) Reviewed A630 Part I Schedule Resubmittal - rejected.
- (15) Reviewed A610 Part II Schedule Revision Submittal - approved.
- (16) A112-CR-068 ✓ Prepared revised estimate for lighting and power conduits based on agreed scope and quantities, negotiated settlement.
- (17) A130-CR-032 Reviewed back-up data for removal of concrete foundations.
- (18) A130-CR-026 Reviewed revised subcontractor proposal on previously negotiated communication duct bank.
- (19) A135-CR-004 Continued review of proposals and changes LAUPT Baggage Handling Facilities. Solicit and review alternate proposals.
- (20) A135-CR-032 Prepared estimate and reviewed proposals for LAUPT Police Room.
- (21) A141-CR-040 Reviewed and clarified scope of work in Incoming Electrical Service Rooms.
- (22) A145-CR-115 Reviewed and clarified scope of work for Incoming Electrical Service Room.
- (23) A145-CR-141 Completed estimate for station grounding grid system.
- (24) A165-CR-044 Prepared estimates for hydraulic elevator piping and conduits, negotiated settlement.
- (25) A165-CR-047 Prepared estimate for insulating sleeves in air plenums.
- (26) A165-CR-049 Prepared estimate for 7th Street east bulkhead, A-146 interface.
- (27) A165-CR-057 Prepared estimate for elevator machine room.
- (28) A175-CR-068 Prepared estimates for revisions to incoming electrical service rooms.
- (29) A610/115 Prepared estimates for alternatives to trackwork installation due to tunnel access delays.
- (30) A710 Prepared R.O.M. estimates for proposed changes to elevators.
- (31) General Reviewed contractor proposals, labor and equipment rates for force account work.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

J. CM Meetings in June 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
June 1	RTD/TSP	A135-004 Negotiated settlement, rough carpentry for Baggage Handling Facility, LAUPT
June 1	RTD/Walsh/Elec. Sub.	A112-CR-068 Shop building lighting conduits, agreement on quantities covered by scope of work.
June 1	RTD/OIG	F.A. Audits
June 1	Columbia College	Metro Red Line presentation
June 5, 12, 19, 26	RTD	CCB Meeting
June 5, 6	RTD	A165-CR-049 East Bulkhead, outline scope of work, quantities, costs and RTD position.
June 6	RTD/TSP	A135-004 LAUPT Baggage Handling Facilities, reviewed miscellaneous proposals, negotiated settlement
June 7	RTD/ Granite/Mech. Sub	A165-CR-004 Negotiated settlement for hydraulic elevator piping phase of change
June 7	RTD/GFA/Mech. Sub	A145-CRE-133 Negotiations hydraulic elevator piping
June 7	RTD/GPA	Community Relations update
June 7	RTD, MRTC, LACoSD, LAPD, BAH, RTD police	General Project Security, Safety including operations
June 8	RTD	A620 Reviewed wage rates as proposed by contractor for changes, etc.
June 8	OCPM	Claims
June 8	Battalion Fire Chief	Settlements of fire station at A171 access shaft.
June 8	R. Jioras	PDCD computer interface with instrumentation
June 8	Woodward-Clyde Consult.	data logger installed in the 5th/Hill Station

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
June 9	RTD/Walsh/Sub.	A112-CR-068 Negotiations for settlement, shop lighting and power conduits
June 9	RTD/QA	Audit of A121 Submittal
June 11	LADOT	A141 Traffic Submittal
June 13, 19, 20	RTD/Granite/Sub.	A165-CR-057 Clarify scope of work, elevator machine rooms
June 14	RTD	A165-CR-049 Reviewed estimated costs and RTD position on east bulkhead
June 14, 21, 28	RTD	CRB Meeting
June 14	Tutor-Saliba/Perini and Geofon, Inc.	A135 instrumentation installations
June 14	Guy F. Atkinson and Woodward-Clyde Consult.	A145 strut loads correlation between jacks and strain gauges
June 14, 29	RTD, MRTC	Project Controls Meeting
June 14	Substructure Committee	Monthly Utility and Governmental Agencies Meeting
June 14, 29	Contractors, DIA, RTD	Project Safety Review
June 14	Argonaut LAFD	Fowler Brothers Bookstore (A165)
June 15	RTD Board of Directors	A165-CR-049 Negotiations 7th Street East Bulkhead
June 15	RTD/Granite	A640 Temporary Power
June 15, 20	DWP-P	Metro Red Line presentation
June 15	ARCO (Civic Action Program)	Fire proofing for A112 Shop Building
June 15	RTD/MRTC/A112 Contractor	
June 15	CAFCO Representative	
June 16	RTD	A610 Review alternative studies for trackwork due to tunnel access delays
June 16	RTD	A130-CR-026 Review contractors objections to previously settled duct bank change



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
June 16	Tutor-Saliba/Perini and Nicholson Construction Co. RTD/GPA	A135 tieback tests to determine adhesion values
June 16		Project Streetwise Hotline Orientation staff meeting
June 19	Inspector General	Force Accounts
June 19	RTD	RTD Test Program
June 19	Bechtel/Motorola	A640 Subcontractor QA Program Review
June 20	RTD/TSP	A135-004 Baggage Handling Facilities closure walls and miscellaneous changes
June 20	D.O.T. Auditors	Progress Payments
June 21	RTD	A165-CR-049 Revised Proposal, east bulkhead, establish position
June 21	RTD/Granite/Subs	A165-CR-044 & 057 Negotiate settlement hydraulic elevator revised piping, conduit and machine room
June 21	Tutor-Saliba/Perini and Geofon, Inc. RTD	Rejection of Geofon's A135 geotechnical/environmental report
June 22		A610 Review parameters for schedules and costs, tunnel access delay alternatives
June 22	RTD, MRTC	A187 Design Review
June 22	LADOT	A141 Traffic Closure
June 22, 27	SCRTD	Ventilation for Systemwide work
June 22	RTD/GPA	GPA tour coordination
June 22, 23, 29, 30	ORECOR	Repair of deficiencies in A165 columns
June 23	RTD	Prepare for Wilson/Skinner tour
June 26	RTD/Granite	A165-CR-049 Negotiations for settlement East Bulkhead
June 26	RTD/TSP	A135-CR-004 Review status of closure wall proposals LAUPT, Baggage Handling Facilities
June 26	RTD	U.S. Senator Pete Wilson/DOT Secretary Skinner tour of A165/media event
June 27	RTD	A135-CR-004 Baggage Handling Facilities closure walls, station of proposed subcontractors



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

<u>Date</u>	<u>Agency/Company</u>	<u>General Subject</u>
June 27	RTD/TSP/Sub	A141-CR-040 Clarify scope of work and quantities for incoming electric services
June 27	RTD/GPA	Coordination for 7th/Flower Community Awareness meeting
June 28	RTD/GFA/Sub	A145-CR-115 Clarify scope of work, incoming electric services
June 28	RTD	A610 Tunnel access delays to trackwork, alternatives, presentation of schedules and costs
June 28	BAH,RTD,MRTC	Safety Certification Review
June 28	Caltrans	Metro Red Line presentation
June 30	Bechtel/PacTel	A640 Subcontractor QA Program Plan



SECTION VII

SUMMARY OF ACTIVITIES

PLANNED FOR JULY



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

VII. SUMMARY OF ACTIVITIES PLANNED FOR JULY 1989

A. Administration and Accounting

- (1) Continue to provide priority administrative and accounting assistance to construction field operations.
- (2) Continue the recruitment and termination of personnel as required.
- (3) Continue to coordinate RTD's auditing process with Associate Subcontractors.

B. Quality Assurance

- (1) Continue to review welding activities and conduct fabrication inspections as required to support facilities and system procurement contracts.
- (2) Continue to monitor testing and test laboratory activities.
- (3) Continue to participate in A112 and A121 close-out activities.
- (4) Conduct "hands on" training session for inspectors preparing for ACI Concrete Technician 1 certification. Administer test to approximately 15 inspectors.
- (5) Finalize QA audit/surveillance of inspection reports and preparation of red-lined drawings at field sites.
- (6) Perform QA audit of A112 safety certification documentation.
- (7) Conduct QA audits of prime contractor and subcontractor activities on contracts A640, A740 and A745.
- (8) Support RE Acceptance Test activities.
- (9) Initiate review of Project QA Manuals.

C. Equal Opportunity Administration

- (1) Conduct contract compliance site visits, employee interviews and monitor reporting requirements for Contract Nos. A112, A130, A135, A141, A145, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A640, A710, A732, A740, A745, A750 and A795.

D. Contracts and Procurement

- (1) Evaluate proposals and submit request to District for approval to award new Subcontract for Temporary Personnel Services. Upon receipt of District approval, issue new Subcontract.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- (2) Complete submission of AWP-6 Associate Subcontract Amendments to District for approval. Upon receipt of District approval, issue all Amendments.
- (3) Upon receipt of District approval, issue Annual Agreements and Blanket Agreements covering typewriter maintenance, copier maintenance (AB Dick and Xerox), film and photo developing, copier rental, copy and computer paper and reproduction services.
- (4) Issue District-approved Amendment to Construction Photographic Services Subcontract to incorporate change orders 2 and 3 and increase AWP-5 funding.
- (5) Issue amendment to Laboratory Testing and Inspection Services Subcontractor to increase funding to cover AWP-5 requirements.
- (6) Upon receipt of District approval, solicit and evaluate quotes and issue Purchase Order for 4 additional personal computers.

E. Community Relations

- (1) Continue tenant notifications on traffic access issues for A141, A145, A146, A165 and A175.
- (2) Continue expanded communication activities with A130, A145, A146, A165 and A175 tenants regarding ongoing and pending construction activities.
- (3) Assist RTD/Government and Public Affairs in planning and executing community outreach to Building Managers in the downtown area, including extending promotional activities for the Project Streetwise Hotline and the Information Centers.
- (4) Continue implementing CR Work Plan; conduct community presentations; the dissemination of construction information; and responding to complaints and inquiries.
- (5) Assist RTD/GPA in coordinating noon hour construction briefings for the community.
- (6) Update CR tenant mailing list, emergency contact information and CR merchant files.
- (7) Update slide presentations of ongoing construction activities.

F. Safety and Security

- (1) Continue to monitor safety, health and security activities on all active construction sites on a two shift basis.
- (2) Provide specialized underground safety training/indoctrination for PDCD staff, SCRTD, MRTD and visitors.
- (3) Continue to monitor activities of the Security Guard Service and the Site Clean-up Service subcontractors.
- (4) Upon receipt, review A167 Safety and Security Plan.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- (5) Upon receipt, review replacement Safety Representatives for the A146 Project.

G. Construction Operations

- (1) Continue construction management (CM) services at Contracts A112, A130, A135, A141, A143, A144, A145/A145A, A146, A165, A167, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, (4984, 4986, 4988) and A795; monitoring of Master Agreement work and submittal reviews.
- (2) Continue coordination with governmental agencies and MOS-1 inspection with LADOT.
- (3) Continue to process submittals and Master Agreement invoices on as-needed basis.
- (4) Continue monitoring of ground water and construction water discharges at A141, A144, A145, A146, A165, A171 and A175.
- (5) Continue monitoring Discharge Monitoring Stations at Ballona Creek and Los Angeles River.
- (6) Prepare and submit June Discharge Monitoring Reports (DMR) to the California Regional Water Quality Control Board (CRWQCB).
- (7) Prepare and submit June LA River Dissolved Solids Report to Central and West Basin Water Replenishment District (CWBWRD).
- (8) Continue to monitor instrumentation, building and ground settlement marks, various contracts.
- (9) Continue to check Contractor's control points and layout.
- (10) Continue to perform survey tasks as requested by R.E.'s.
- (11) Continue to perform as-built survey of tunnels for Contracts A141 and A146.
- (12) Continue location surveys in shop and yard contracts.
- (13) Continue to check slab pours for Contracts A141, A165 and A175.
- (14) Perform high precision control survey through AL and AR Tunnels (A171).
- (15) Check arch form alignment AR Tunnel (A171).
- (16) Provide A145 as-built drawings to the City of Los Angeles in order to obtain sign-offs for building basements along Hill Street (east side).

H. Engineering Services

- (1) Continue inspecting instrumentation and analyzing data in Contracts A130, A135, A141, A145, A146, A165 and A175.
- (2) Continue to track northern A145 geology and instrumentation results as part of the A141 Design Criteria Verification Study, Task B.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- (3) Continue to process Contractor's submittals for Contracts A112, A130, A135, A135BH, A141, A145, A146, A165, A171, A175, A610/A115, A612, A615, A616, A620, A630, A640, A710, A732, A740, A745, A750, and A795.
- (4) Continue production of A161 as-built drawings.
- * (5) Complete constructibility review for Contract A680/60%, Operational Graphics.

I. Project Controls

- (1) Process Monthly Payment Estimates for all active contracts.
- (2) Process all the executed Change Orders through TRACS
- (3) Continue close-out reconciliations for Force Account Change Orders.
- (4) Plan for PC TRACS implementation.
- (5) Review Contractor Monthly Progress Reports.
- (7) Prepare Scheduling inputs to RTD Quarterly Progress Report.
- (8) Review A167 Part II Schedule Submittal.
- (9) Review A630 Part I Schedule Resubmittal.

* See Page 45.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

DESIGN PACKAGE STATUS WINDOW REPORT - NEXT 30 DAYS 7-1-89 TO 7-28-89

Contract #	Description	Pkg Type	Review Code	Schedule Receipt	Received	Schedule Complete	Actual Complete	SC	Remarks
A-680	OPERATIONAL GRAPHICS	DWGS	IP60%	07-06-89		07-21-89			
A-680	OPERATIONAL GRAPHICS	SPEC	IP60%	07-06-89		07-21-89			

2 records listed. 2 values listed.

Review Codes : LT60 - Less than 60%
PF90 - Prefinal 90%
CAR- Claims Avoidance Review

IP60 - In progress 60%
FS100 - Final submittal 100%
CE - Check Estimate

PF85 - Prefinal 85%
DC100 - Final design complete 100%

NOTE : Based on 7-6-89, MRTC Design Review Schedule

1990

SECTION VIII

SUBCONTRACTOR/CONSULTANT

STATUS

MTA LIBRARY



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

VIII. SUBCONTRACTOR/CONSULTANT STATUS

The following 5th AMP Subcontract Status Report provides a current status of subcontracts awarded to the twelve associate and four consultant subcontractors. The Report shows major milestones for each subcontractor action from receipt of the requisition, execution of the document and includes an abbreviated description of the subcontract amendment issued.

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT

JUNE 30, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUISITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JV APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
1-SC-3389-1	BETTER PERSONNEL EMPLOYMENT SERVICES	08/03/88	04/08/88	06/08/88	07/25/88	06/13/88	06/13/88	06/14/88	08/11/88	\$420,632	06/11/88	FIFTH AMP
	AMEND. NO. 11	N/A	N/A	N/A	N/A	11/04/88	11/08/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
2-SC-3389-1	CONSTRUCTION CONTROL SERVICES CORP.	08/03/88	04/08/88	06/08/88	07/25/88	06/17/87	04/20/88	06/27/88	08/15/88	\$1,482,039	08/31/88	FIFTH AMP
	AMEND. NO. 11	N/A	N/A	N/A	N/A	11/04/88	11/28/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
	AMEND. NO. 12	N/A	N/A	N/A	N/A	05/15/89	06/01/89	N/A	N/A	\$1,617,039	06/01/89	INCREASES FUNDS
3-SC-3389-1	DAMES & MOORE	08/03/88	04/08/88	06/08/88	07/25/88	06/28/88	06/28/88	06/30/88	08/15/88	\$234,517	08/15/88	FIFTH AMP
	AMEND. NO. 10	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
4-SC-3389-1	ENGINEERING-SCIENCE	08/03/88	04/08/88	06/08/88	07/25/88	07/06/88	07/15/88	07/18/88	08/12/88	\$228,002	08/15/88	FIFTH AMP
	AMEND. NO. 10	N/A	N/A	N/A	N/A	11/04/88	12/01/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE
	AMEND. NO. 11	12/30/88	N/A	N/A	*	01/15/89	01/25/89	01/27/89	04/25/89	\$477,824	04/25/89	INCREASES FUNDS
5-SC-3389-1	HAYAKAWA ASSOCIATES	08/03/88	04/08/88	07/15/88	07/25/88	08/02/88	08/18/88	08/24/88	09/16/88	\$133,484	09/16/88	FIFTH AMP (TERMINATED)
6-SC-3389-1	JACOBS ASSOCIATES	08/03/88	04/08/88	06/09/88	07/25/88	06/22/87	06/29/88	06/30/88	08/15/88	\$596,419	08/16/88	FIFTH AMP
	AMEND. NO. 13	N/A	N/A	N/A	N/A	11/04/88	12/06/88	N/A	N/A	N/C	11/04/88	ADMINISTRATIVE

**IN PROCESS



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

JUNE 30, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	DATE EXECUTED	REMARKS
7-SC-3389-1	JENKINS, GALES & MARTINEZ, INC.										
		08/03/88	04/08/88	06/08/88	07/25/88	07/18/88	07/29/88	07/29/88	08/23/88	08/23/88	FIFTH AMP
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	11/04/88	ADMINISTRATIVE
8-SC-3389-1	MARTIN & HUANG INTERNATIONAL										
		08/03/88	04/08/88	06/08/88	07/25/88	07/13/88	07/18/88	07/25/88	08/18/88	08/18/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	10/06/88	10/17/88	N/A	N/A	10/06/88	REVISED IPR
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	10/31/88	11/02/88	N/A	N/A	10/31/88	ADMINISTRATIVE
	CHANGE ORDER NO. 12	N/A	N/A	N/A	N/A	05/24/88	05/20/88	N/A	N/A	05/20/88	INCREASES FUNDS
9-SC-3389-1	NORTH PACIFIC CONSTRUCTION MANAGEMENT										
		08/03/88	04/08/88	06/29/88	07/25/88	07/18/88	07/29/88	08/03/88	08/23/88	08/23/88	FIFTH AMP
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	11/04/88	11/15/88	N/A	N/A	11/04/88	ADMINISTRATIVE
10-SC-3389-1	UDUNA & SILLUS										
		08/03/88	04/08/88	06/14/88	N/A	07/19/88	07/21/88	07/25/88	08/18/88	08/18/88	FIFTH AMP
11-SC-3389-1	RAMBOLPH & TATE ASSOCIATES										
		08/03/88	04/08/88	04/10/88	N/A	07/20/88	08/08/88	08/08/88	08/18/88	08/18/88	FIFTH AMP
15-SC-3389-1	MUESER RUTLEDGE CONSULTING ENGINEERS (JAMES GOULD, Ph.D)										
		08/03/88	04/08/88	06/15/88	N/A	06/21/88	06/21/88	06/23/88	08/12/88	08/12/88	FIFTH AMP
18-SC-3389-1	DEO GRAY/ PHOTOGRAPHY										
		08/13/88	N/A	N/A	N/A	08/18/88	08/19/88	07/01/88	08/18/88	08/22/88	FIFTH AMP
	CHANGE ORDER NO. 2	N/A	N/A	N/A	N/A	07/13/88	07/20/88	N/A	N/A	07/20/88	ADMINISTRATIVE
	CHANGE ORDER NO. 3	N/A	N/A	N/A	N/A	05/10/88	05/10/88	N/A	N/A	05/10/88	ADDS ITEMS
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	05/10/88	05/10/88	05/19/88	06/20/88	06/20/88	INCREASES FUNDS
19-SC-3389-1	WORK CENTER, INC.										
		05/25/88	N/A	N/A	N/A	08/12/88	08/26/88	06/27/88	08/11/88	08/26/88	FIFTH AMP
	CHANGE ORDER NO. 5	N/A	N/A	N/A	N/A	11/07/88	12/20/88	N/A	N/A	12/20/88	ADMINISTRATIVE
	CHANGE ORDER NO. 7	07/08/88	N/A	N/A	N/A	05/10/88	05/17/88	02/05/88	05/07/88	05/07/88	INCREASES FUNDS
	CHANGE ORDER NO. 8	05/12/88	N/A	N/A	N/A	05/22/88	06/19/88	05/01/88	05/11/88	06/19/88	INCREASES FUNDS

**IN PROCESS

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

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PERIOD JUNE 1989

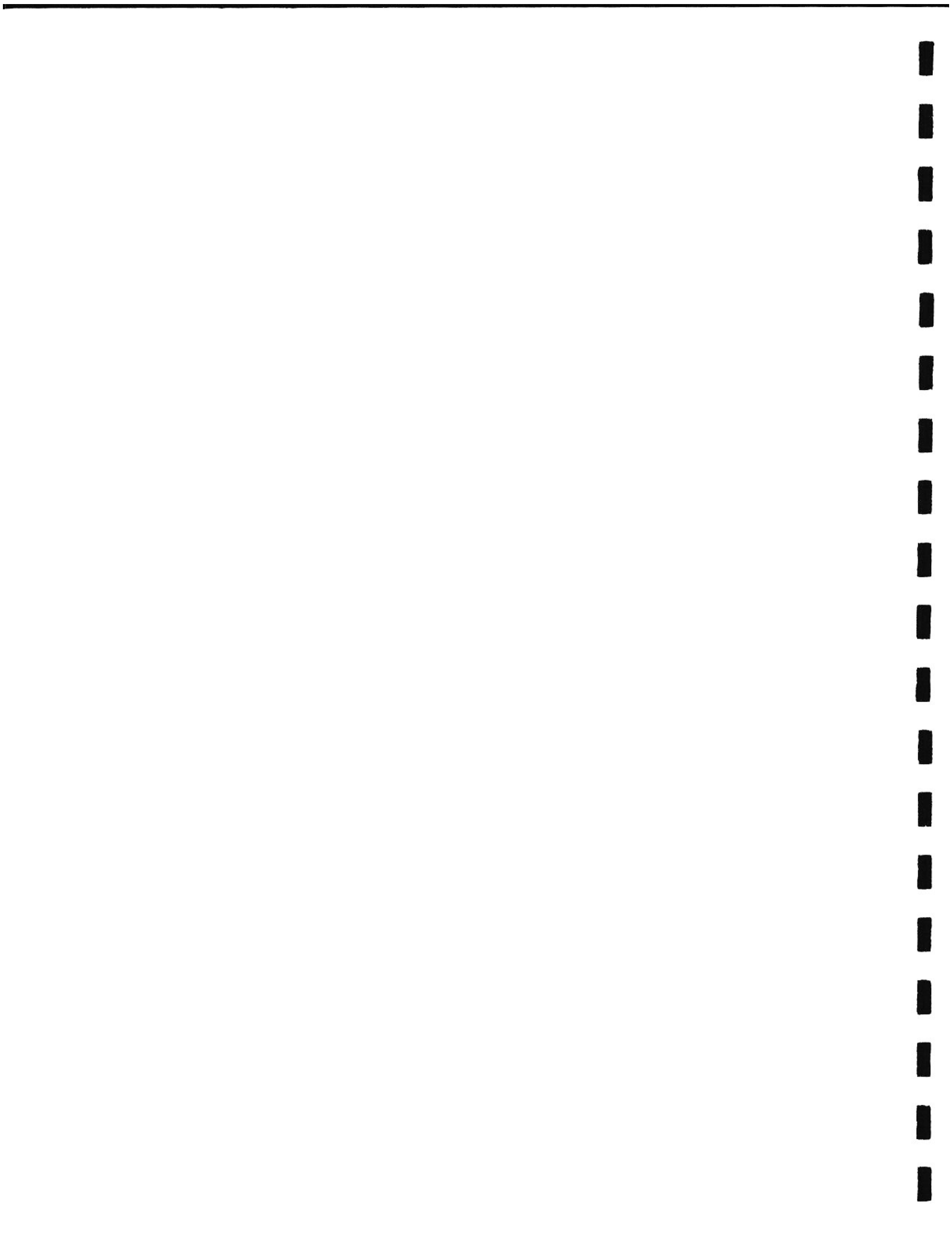
FIFTH ANNUAL WORK PLAN SUBCONTRACT STATUS REPORT (Contd)

JUNE 30, 1989

SUBCONTRACT NUMBER	SUBCONTRACTOR	REQUI- SITION	REQ FOR PROPOSAL	NEGOTIATION COMPLETE	JY APPROVAL	DATE TO SC	RETURNED FROM SC	CONSENT REQUESTED	CONSENT RECEIVED	NTE AMOUNT	DATE EXECUTED	REMARKS
21-SC-3369-1	SMITH ENERGY CO.											
	AMEND. NO. 3	06/13/88	N/A	N/A	07/25/88	08/23/88	08/29/88	06/16/88	08/29/88	\$395,000	08/31/88	FIFTH AMP
	CHANGE ORDER NO. 4	N/A	N/A	N/A	N/A	12/30/88		N/A	N/A	N/C	12/30/88	ADDS ITEMS
	AMEND. NO. 4	04/15/88	N/A	N/A	N/A	04/05/88	04/05/88	02/15/88	04/03/88	\$595,000	04/05/88	INCREASES FUNDS
	AMEND. NO. 5	N/A	N/A	N/A	N/A			N/A	N/A	\$690,000		INCREASES FUNDS
22-SC-3369-1	COLEMAN SECURITY SERVICES INC.											
	AMEND. NO. 3	05/13/88	N/A	N/A	N/A	08/15/88	08/17/88	06/15/88	08/15/88	\$53,000	08/18/88	FIFTH AMP
28-SC-3369-1	SUBWAY TERMINAL BLDG (A145/148 SITE OFFICE LEASE)	N/A	N/A	N/A	N/A	N/A	N/A	06/01/88	06/02/88	\$58,910	N/A	EXER 1YR OPT
33-SC-3369-1	F. E. ENOACOTT (CONSULTING AGREEMENT)	05/18/88	N/A	N/A	N/A	06/16/88	07/05/88	07/06/88	08/16/88	\$61,000	08/16/88	FIFTH AMP
34-SC-3369-1	BASHAGLION-DARNELL INC. (COMPLETED)											
35-SC-3369-1	MARY & SON MAINTENANCE (SITE CLEAN-UP)	06/27/88	06/27/88	07/21/88	07/25/88	08/10/88	08/11/88	07/13/88	08/12/88	\$60,000	08/15/88	FIFTH AMP
36-SC-3369-1	STARLITE SAFETY SUPPLIES (COMPLETED)											
37-SC-3369-1	KAL KRISHNAN	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/19/88	11/04/88	12/12/88	\$98,000	12/20/88	NEW ASSOCIATE
	AMEND. NO. 1	N/A	N/A	02/17/89	N/A	02/23/89		N/A	N/A	\$94,130		RATE ADDITIONS
38-SC-3369-1	EDWARD D. GNAZ (CONSULTING AGREEMENT)	08/10/88	N/A	N/A	N/A	08/12/88	08/16/88	08/10/88	09/07/88	\$50,000	09/07/88	
39-SC-3369-1	D'LEW CONSULTING ENGINEERS CO.	08/25/88	09/12/88	10/18/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$99,015	12/30/88	NEW ASSOCIATE
40-SC-3369-1	TRANSMETRICS	08/25/88	09/12/88	10/19/88	N/A	12/15/88	12/29/88	11/04/88	12/12/88	\$55,350	12/29/88	NEW ASSOCIATE
	CHANGE ORDER NO. 1	N/A	N/A	N/A	N/A	01/26/89	02/01/89	N/A	N/A	N/C	01/26/89	ADMINISTRATIVE

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Parsons-Dillingham-De Leuw, Cather





SECTION IX

CONSTRUCTION PROGRESS PHOTOS



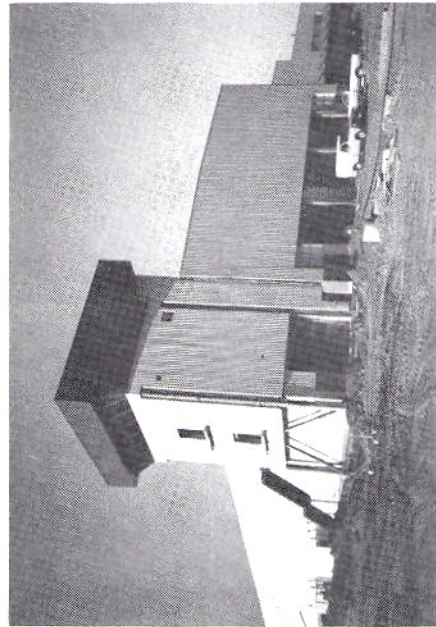
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE
REPORT

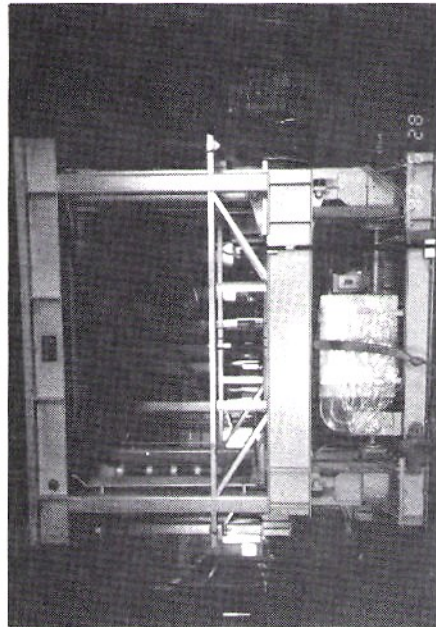
PDCD

PERIOD JUNE 1989

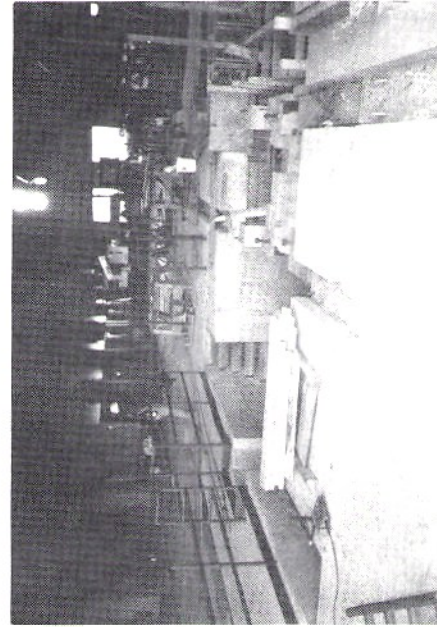
MAIN SHOP BUILDING
CONTRACT A112 ✓



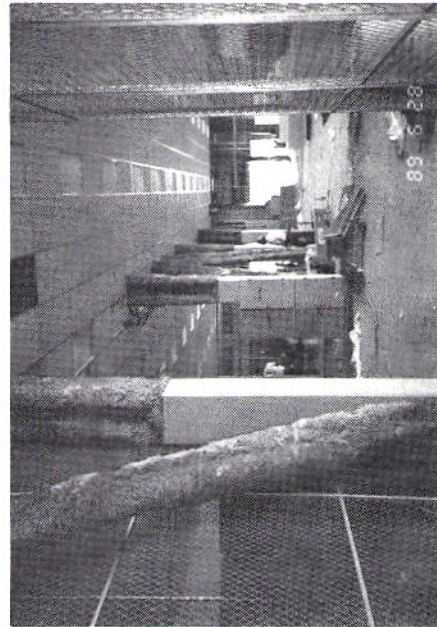
CONTROL TOWER, BLOWDOWN FACILITY AND
NORTH ENTRY TO S & I AREA



HOIST MACHINE AS DELIVERED



WHEEL TRUING MACHINE PIT



TOOL ROOM & SECURITY STORAGE LEADING
INTO SYSTEM STORES

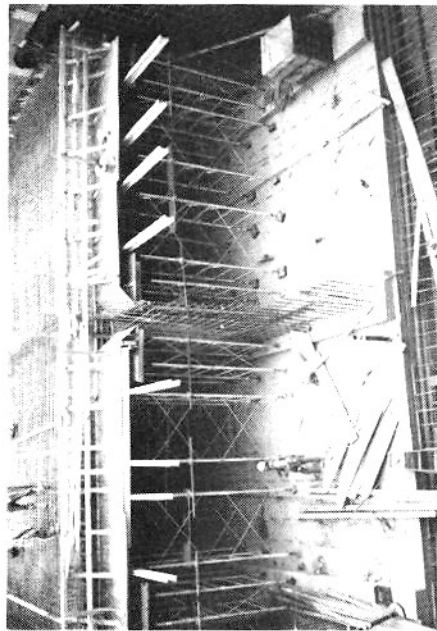


LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

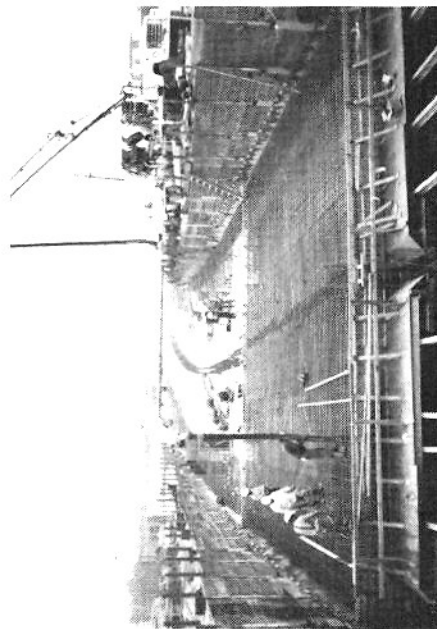
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PERIOD JUNE 1989

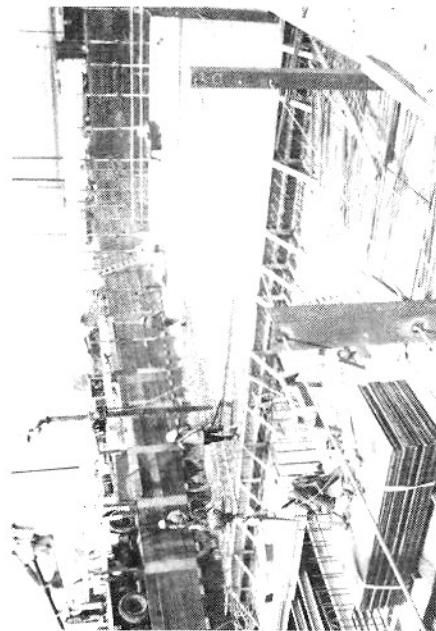
YARD LEADS & TRANSFER ZONE CONTRACT A130



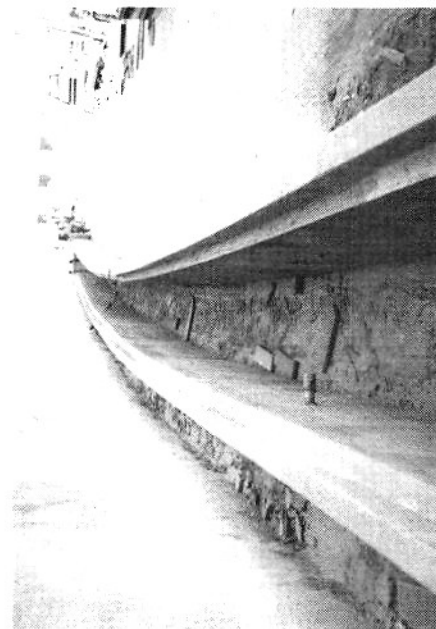
FORM SUPPORT SYSTEM FOR BOX
STRUCTURE ROOF SLAB



PLACING CONCRETE IN BOX
STRUCTURE ROOF SLAB



PLACING CONCRETE IN BOX
STRUCTURE ROOF SLAB



WALKWAY - CABLE TRENCH IN
"U" WALL STRUCTURE

Parsons-Dillingham-De Leuw, Cather



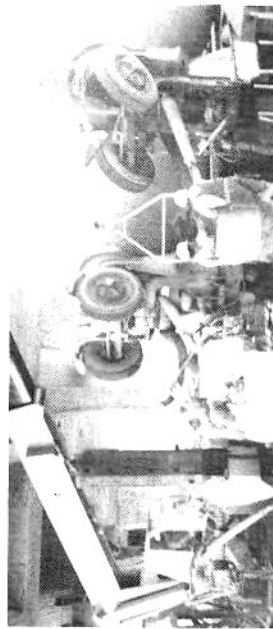
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

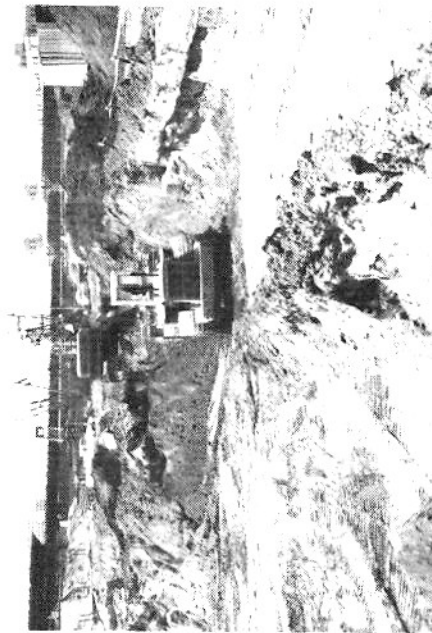
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PERIOD JUNE 1989

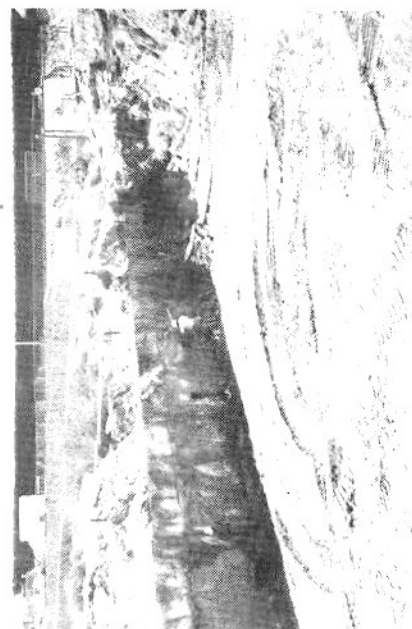
YARD LEADS & TRANSFER ZONE CONTRACT A130 (Contd)



PLACING CONCRETE IN SLURRY WALL PANEL



STRUCTURE EXCAVATION IN SLURRY WALL AREA



EXPOSED SLURRY WALLS



EXPOSED SLURRY WALLS

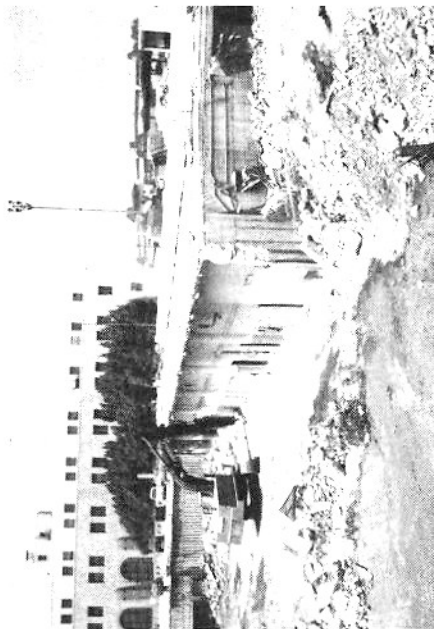


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

PDCD

PERIOD JUNE 1989

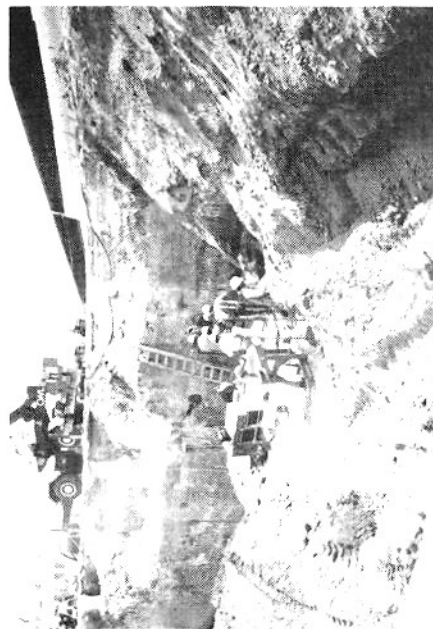
UNION STATION
CONTRACT A135



DEMOLITION OF STREET LEVEL SLAB OF
THE REA BUILDING



DRILLING OPERATION FOR SLURRY WALL TIEBACKS



BACKGROUND: SLURRY WALL
TIEBACK ANCHOR TESTING
FOREGROUND: ARCHEOLOGICAL EXCAVATION



EXCAVATION TO ELEVATION 272
IN WEST AREA OF TRACK YARD

Parsons-Dillingham-De Leuw, Cather



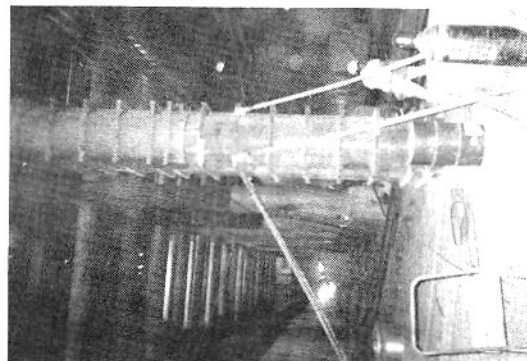
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

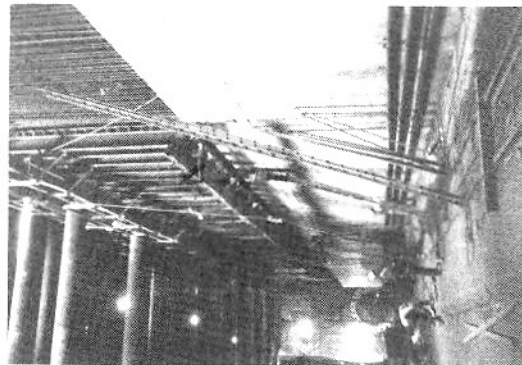
POCD

PERIOD JUNE 1989

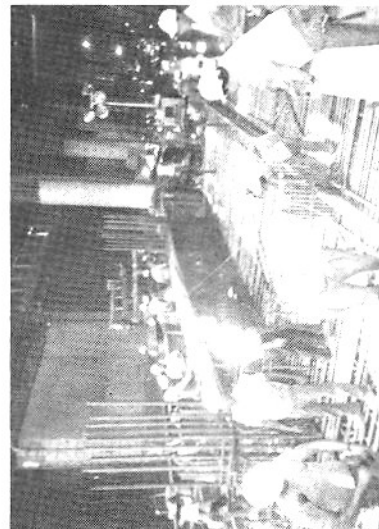
CIVIC CENTER STATION AND TUNNEL CONTRACT A141



PREPARING TO POUR COLUMN
CONCRETE AT CIVIC CENTER STATION



FORMING FOR MEZZANINE LEVEL WALLS
IN CENTER OF CIVIC CENTER STATION



PREPARING TO POUR INVERT #1
AT NORTH END OF CIVIC CENTER STATION



POURING CONCRETE FOR INVERT #1
AT NORTH END OF CIVIC CENTER STATION



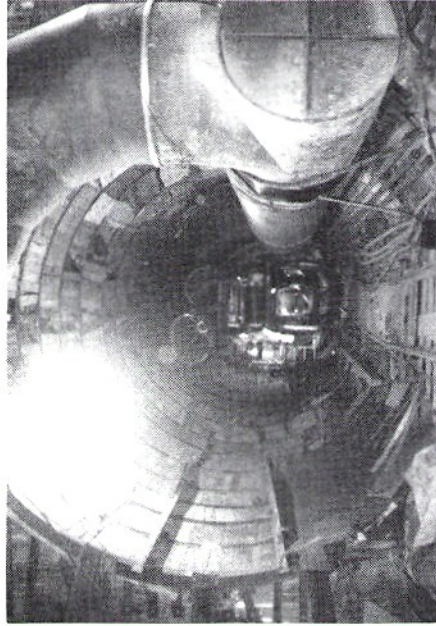
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

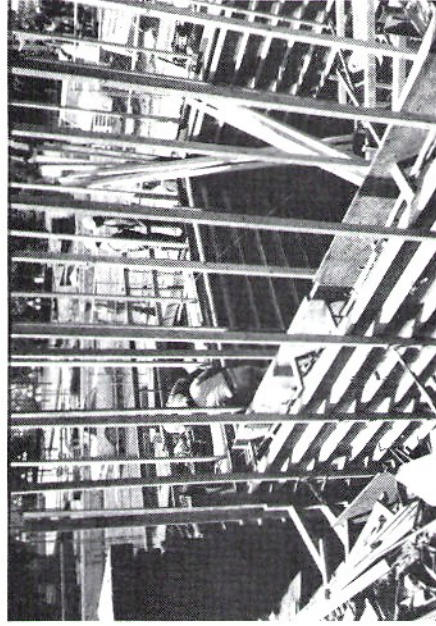
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PERIOD JUNE 1989

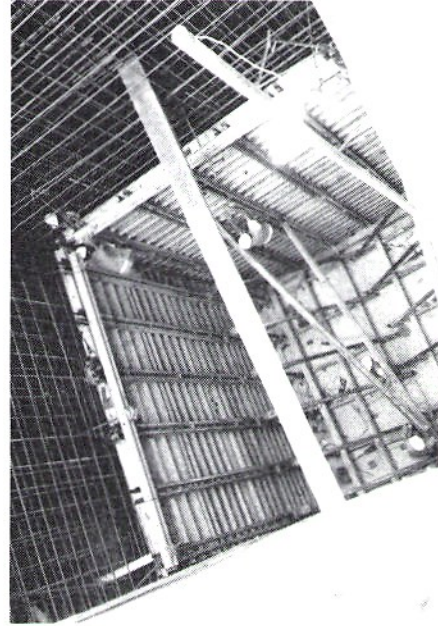
CIVIC CENTER STATION AND TUNNEL CONTRACT A141 (Contd)



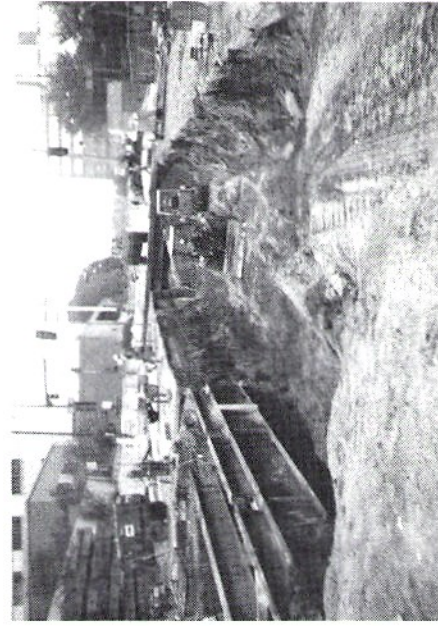
AL TUNNEL LOOKING SOUTH FROM
CIVIC CENTER STATION



FORMING VERTICAL WALLS AT
NORTH BLAST RELIEF SHAFT



FORMING VERTICAL WALLS AT
SOUTH BLAST RELIEF SHAFT



BACKFILLING HILL STREET SOUTH OF FIRST ST.
OVER THE SOUTH BLAST RELIEF SHAFT

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

5TH/HILL UTILITY RELOCATION AND 5TH/HILL STATION STAGE I CONTRACT A145/A145A



TEMPORARY SANITARY SEWER LINE--C, SUPPORTED
AT THE NORTH END OF STATION, UNDER 4TH STREET



STATION NORTH BULKHEAD SHOWING SUPPORTED
TELEPHONE MANHOLE NO. 793 (TEMPORARY)



EXCAVATING FOR GRADE BEAM AT STATION'S
SOUTH END AT APPROX. INVERT 13



POURING THE 4-INCH MUD-MAT AT THE
STATION'S SOUTH END, INVERT 16/15

Parsons-Dillingham-De Leuw, Cather

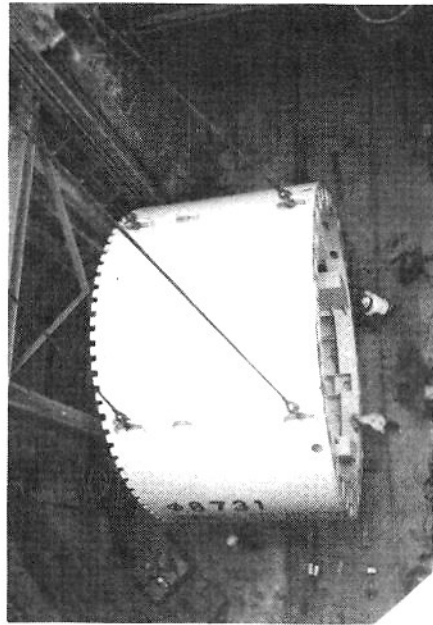


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

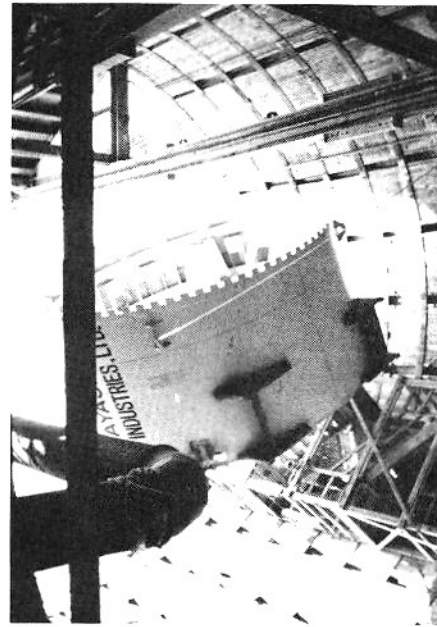
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PERIOD JUNE 1989

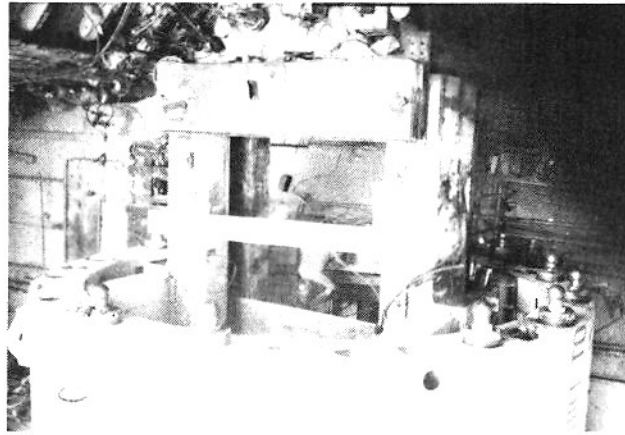
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER
CONTRACT A146



AR TUNNEL SHIELD BEING LOWERED
DOWN ACCESS SHAFT



AR TUNNEL SHIELD BEING LOWERED
DOWN ACCESS SHAFT



ASSEMBLING SHIELD FOR AR TUNNEL
AT BOTTOM OF ACCESS SHAFT



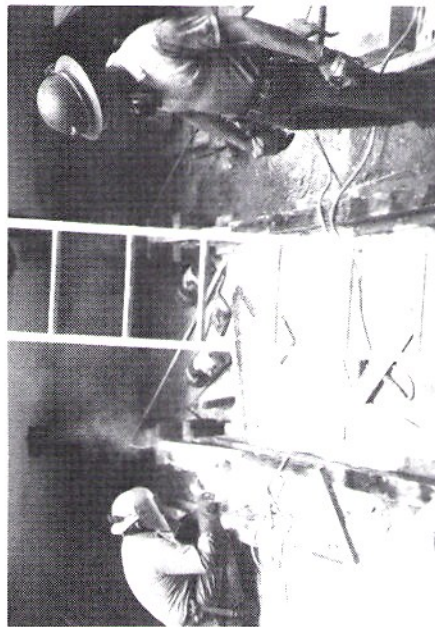
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

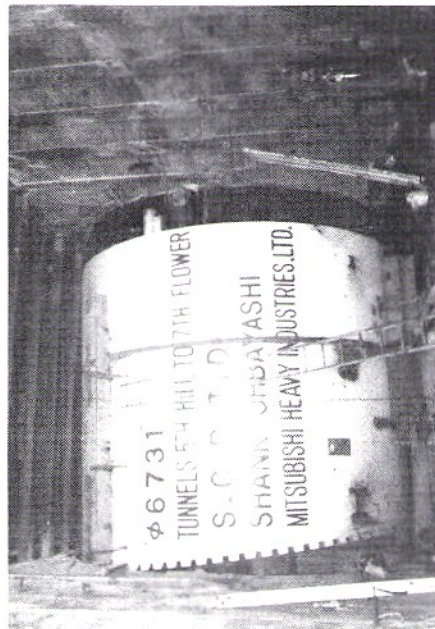
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PERIOD JUNE 1989

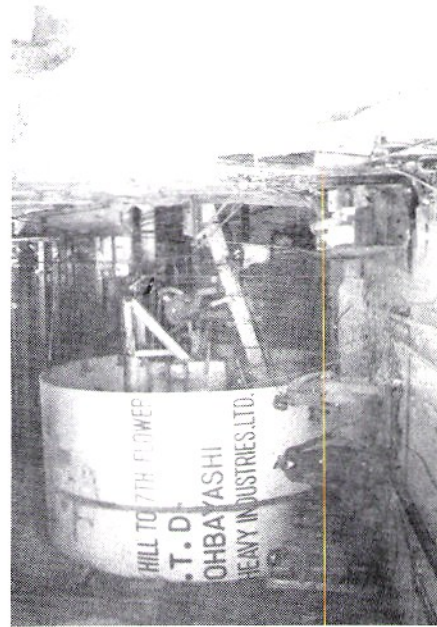
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A146 (Contd)



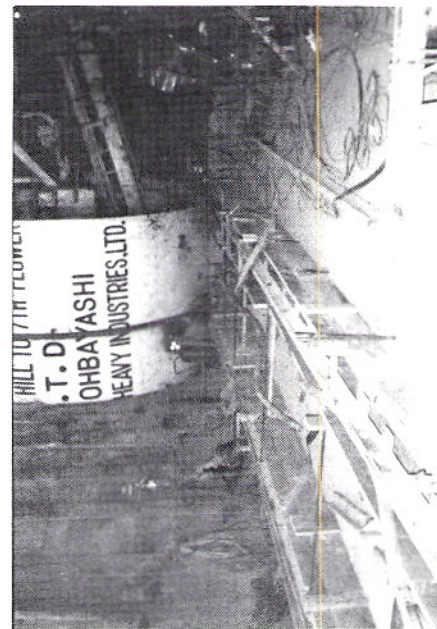
PREPARING TO SKID SHIELD FROM ACCESS SHAFT
TOWARD AR TUNNEL USING HYDRAULIC JACKS



SHIELD IN POSITION AT PORTAL OF AR TUNNEL;
CONCRETE SADDLE BEING POURED BENEATH SHIELD



SHIELD JACKED FORWARD BY 9 FEET INTO AR TUNNEL;
MUCK REMOVAL CONVEYOR BEING ASSEMBLED



PREPARING TO POUR CONCRETE UNDER
TRACK IN ACCESS DRIFT



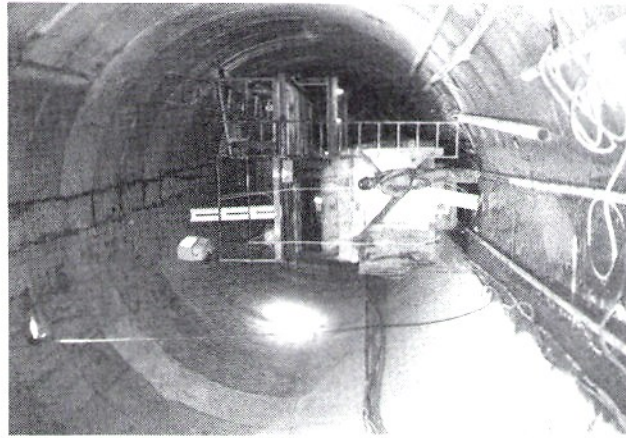
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

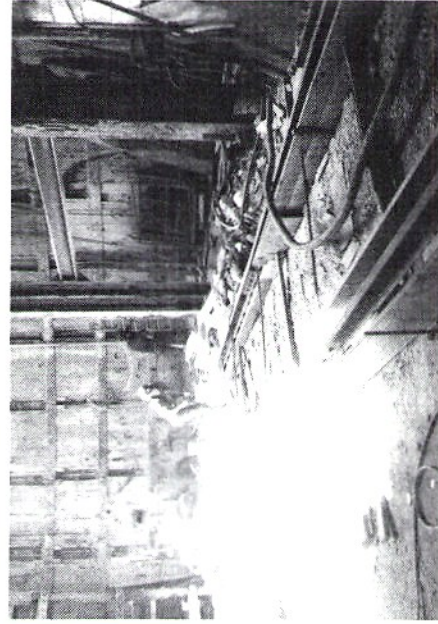
TUNNELS FROM 5TH/HILL TO 7TH/FLOWER CONTRACT A 146 (Contd)



PLATFORM MOUNTED ON RAILCAR FOR
SAWCUTTING CONCRETE SEGMENTS PRIOR
TO CROSS PASSAGE EXCAVATION
IN AL TUNNEL



TEMPORARY MUCK REMOVAL CONVEYOR
INSTALLED IN AR TAIL TUNNEL



PREPARING TO POUR CONCRETE UNDER TRACK
AT BOTTOM OF ACCESS DRIFT



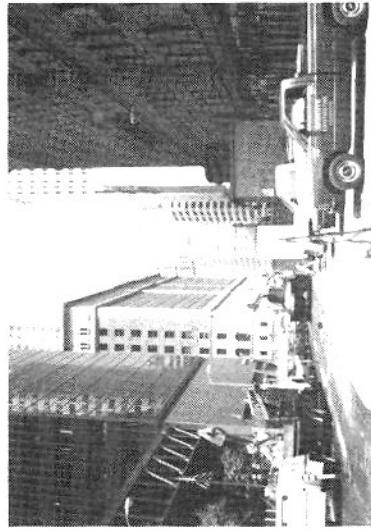
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

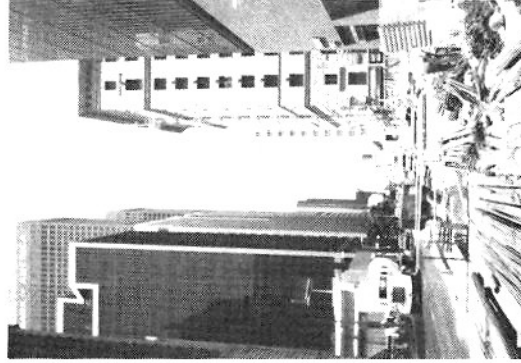
PDOPD

PERIOD JUNE 1989

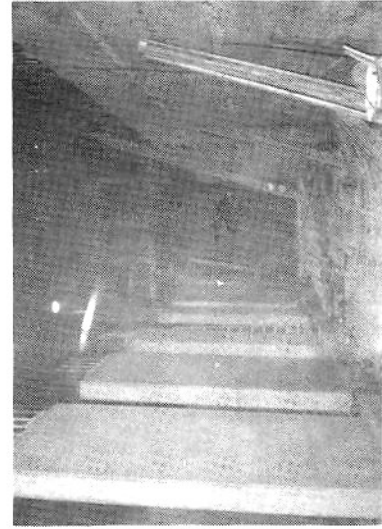
7TH/FLOWER STATION CONTRACT A165



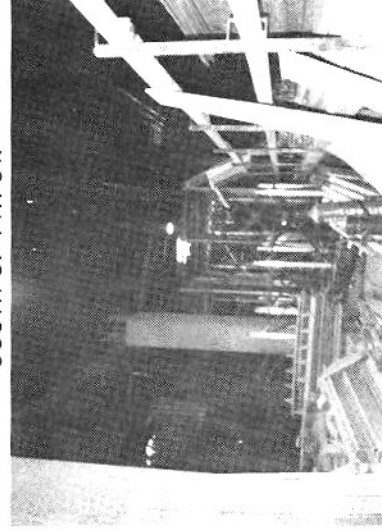
CONSTRUCTION LAYDOWN AREA,
ON NORTH SIDE OF 7TH ST.
EAST OF FLOWER ST.



CONSTRUCTION LAYDOWN AREA,
ON EAST SIDE OF FLOWER ST.
SOUTH OF 7TH ST.



LRT CENTRAL WALLS AT NORTH BULKHEAD
ON FLOWER STREET



LRT INTERIOR COLUMNS,
SOUTH OF 7TH ST. ON FLOWER ST.



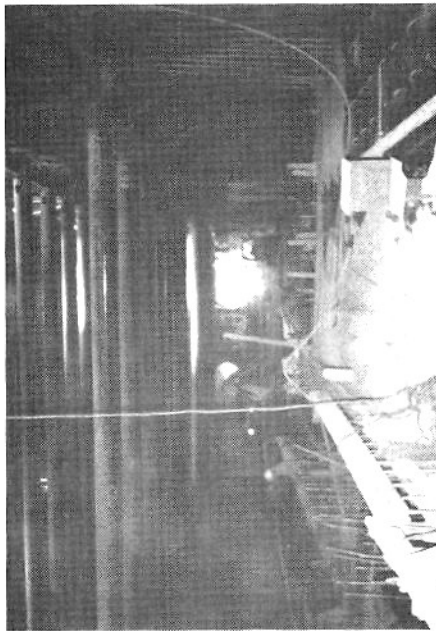
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

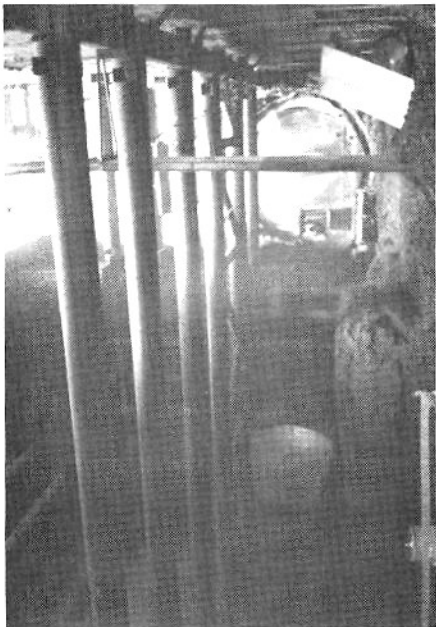
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PERIOD JUNE 1989

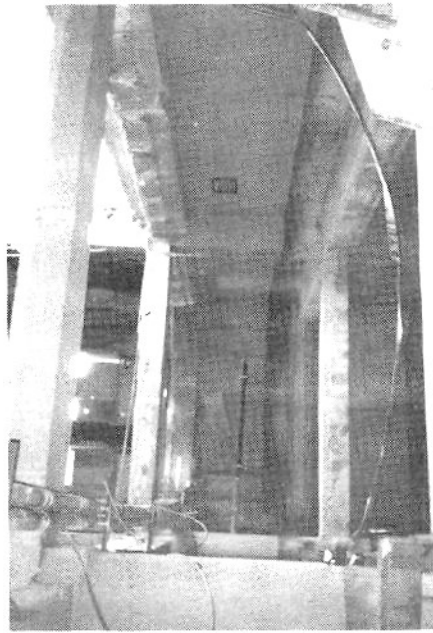
7TH/FLOWER STATION CONTRACT A165 (Contd)



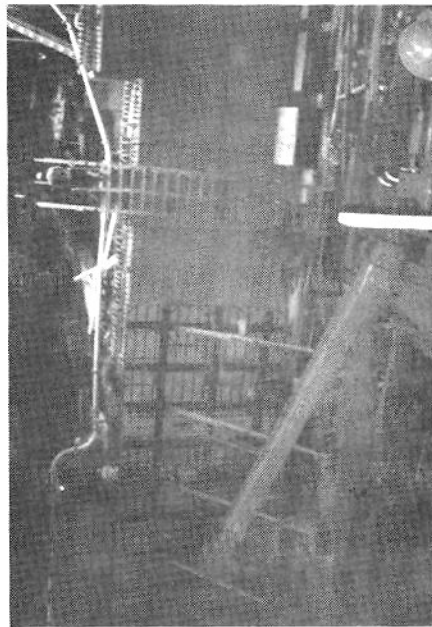
MRT BASE SLAB WEST OF FLOWER ST. ON 7TH ST.
A171 TUNNELS IN THE BACKGROUND



MRT OPEN CUT EXCAVATION ON WEST 7TH
STREET, A171 IN THE BACKGROUND



DEMOLITION OF ROOSEVELT BUILDING
1ST FLOOR AND BASEMENT SLABS



MRT NORTH WALL AT INTERSECTION OF
FLOWER AND 7TH STREET

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO CONTRACT A171



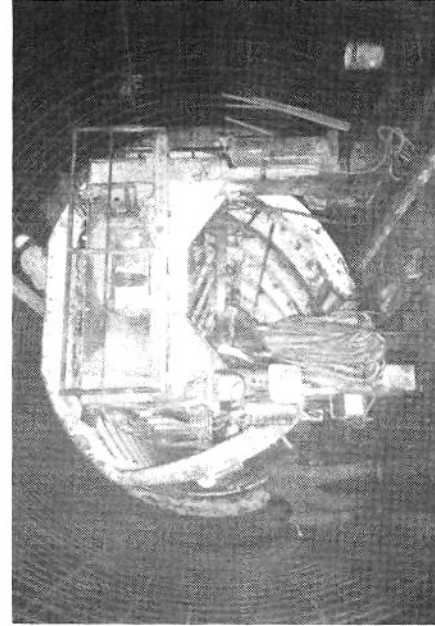
GROUTING AL TUNNEL ARCH STA 241+85



CONCRETE BULKHEAD AT A165/A171 INTERFACE
HAS BEEN REMOVED. A171 AL TUNNEL
LINING HAS BEEN PLACED



BULKHEAD IN PLACE AT A165/A171 AR TUNNEL
INTERFACE; AR TUNNEL ARCH CONCRETE HAS BEEN
PLACED AT STA 206+05 TO 207+49



FORM CARRIER MOVING ARCH FORMS IN AR TUNNEL

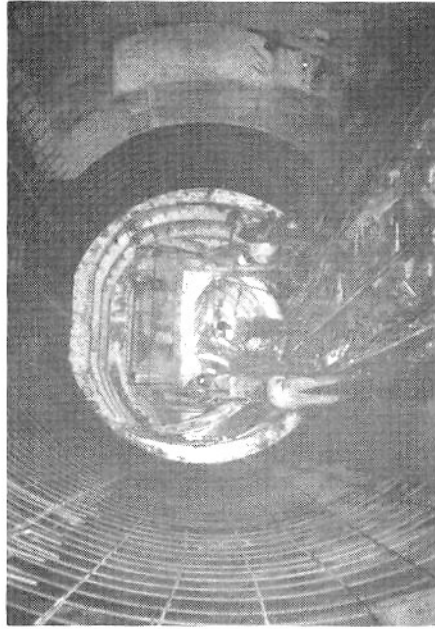


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

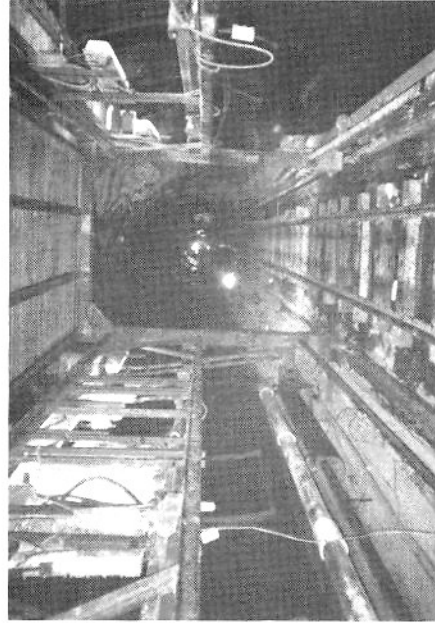
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PERIOD JUNE 1989

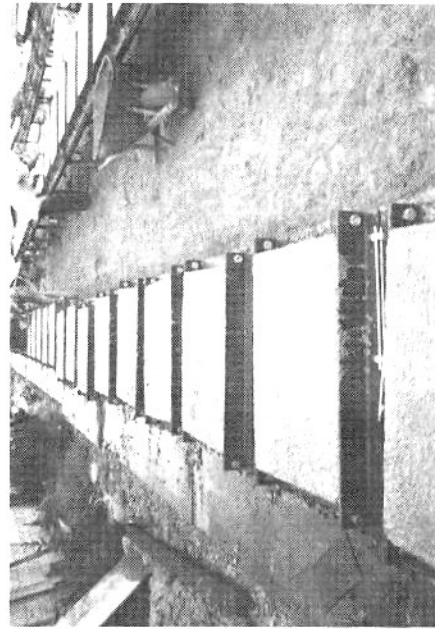
LINE SECTION - 7TH/FLOWER TO WILSHIRE/ALVARADO
CONTRACT A171 (Contd)



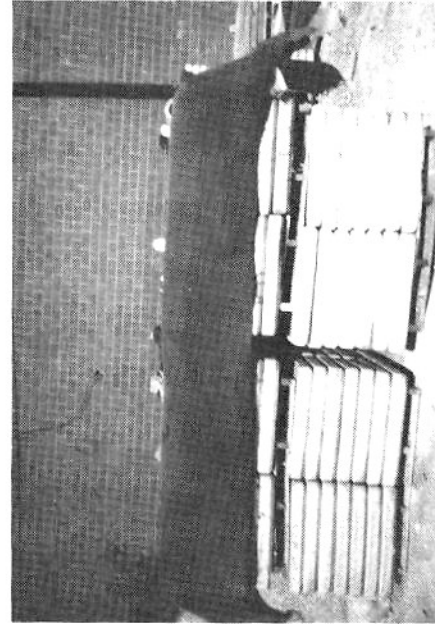
HDPE & REBAR HAS BEEN INSTALLED
IN ARCH STA 210+60



HDPE INSTALLATION HIGH CAR STA 218+00



LIGHT WEIGHT CONCRETE BEING CAST IN YARD
FOR TUNNEL WALKWAYS



FINISHED WALKWAY PADS ON PALLETS READY
FOR SHIPMENT TO TUNNEL JOBSITE

Parsons-Dillingham-De Leuw, Cather



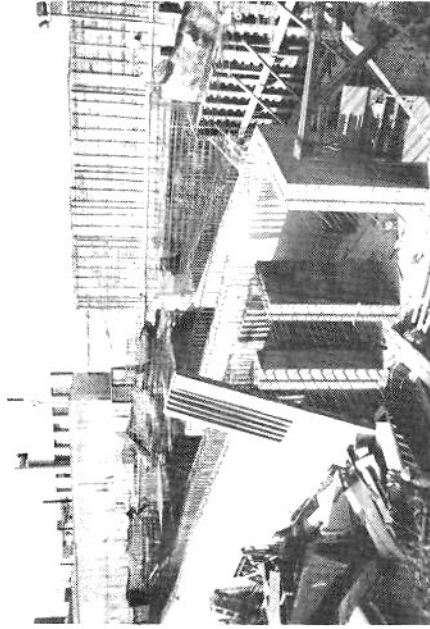
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

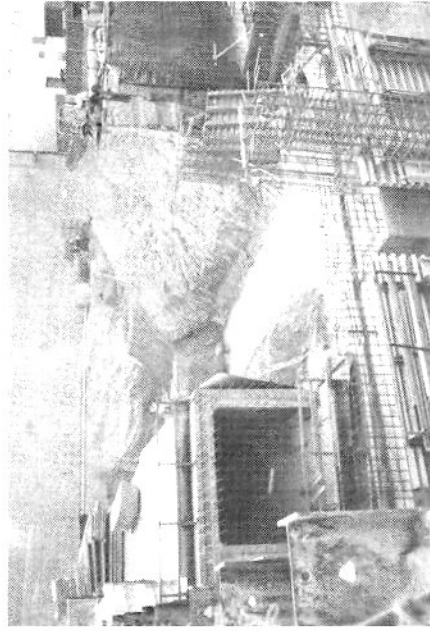
PDCD

PERIOD JUNE 1989

WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175



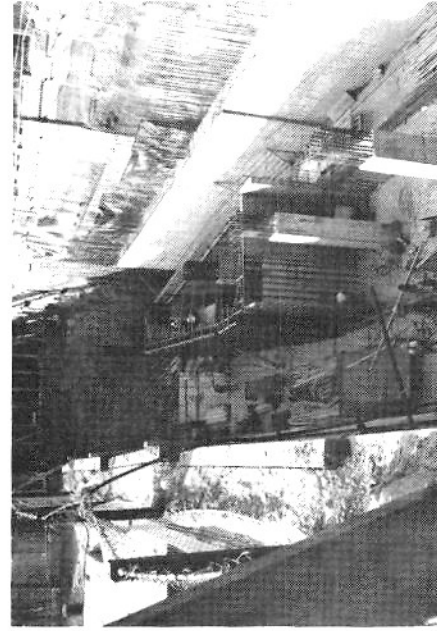
WORK AT SOUTH INTAKE AND EXHAUST SHAFT,
WALLS ARE COMPLETED AND CONTRACTOR
IS PREPARING FOR ROOF SUPPORT



EXCAVATION AND PLACEMENT OF LEAN CONCRETE
MUD SLAB FOR EMERGENCY STAIR #7,
ADJACENT IS NORTH BLAST RELIEF SHAFT



EXCAVATION AND SUPPORT OF EXCAVATION
AT A171/A175 INTERFACE



PLACEMENT OF INTERIOR WALLS AT EAST END
OF STATION EXCAVATION



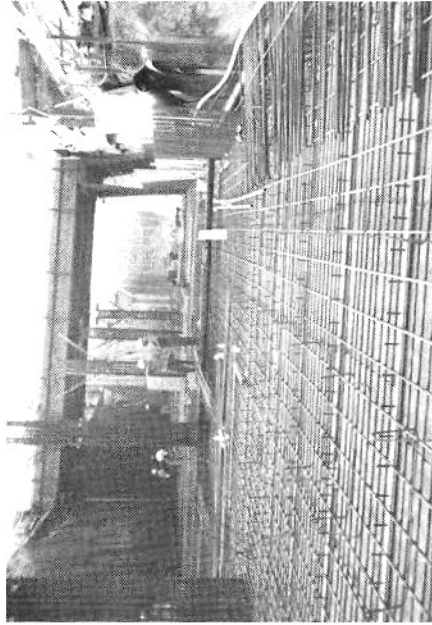
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

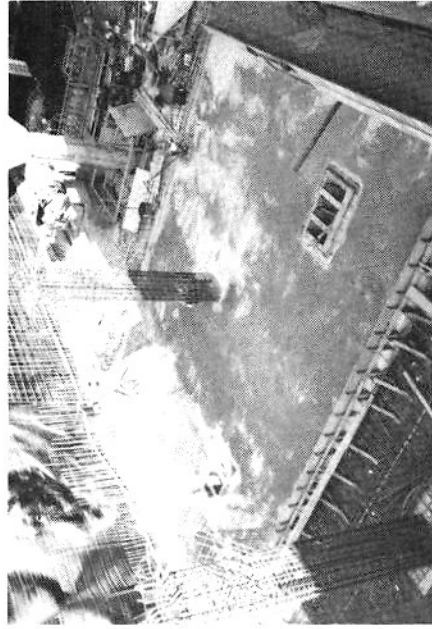
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PERIOD JUNE 1989

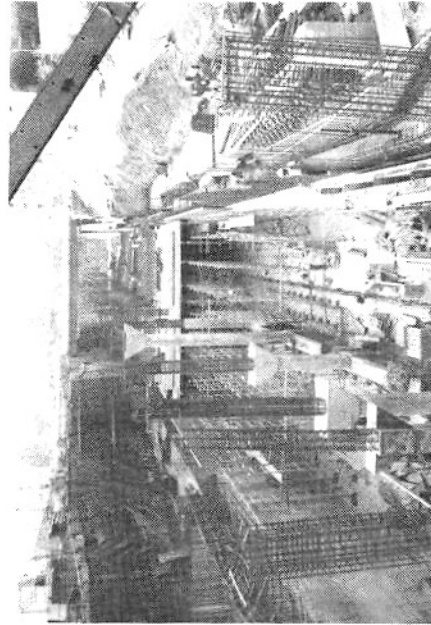
WILSHIRE/ALVARADO STATION - STAGE I CONTRACT A175 (Contd)



RESTEEL AND CHANNEL IMBEDS FOR
MEZZANINE SLABS



FIRST COMPLETED MEZZANINE SLAB FOR A175,
MEZZANINE LEVEL POUR #6



END VIEW OF STATION CONSTRUCTION PROGRESS,
LOOKING EAST FROM ALVARADO ST. MEZZANINE
SUPPORT BEING INSTALLED TOWARDS CAMERA



END VIEW OF STATION PROGRESS FROM EAST
(BONNIE BREA ST.) END OF STATION LOOKING WEST

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

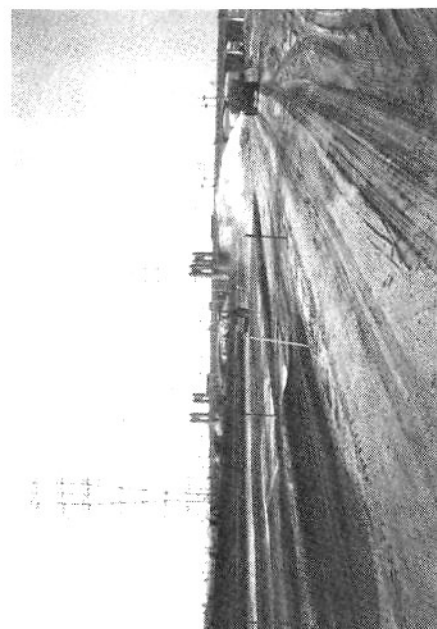
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PERIOD JUNE 1989

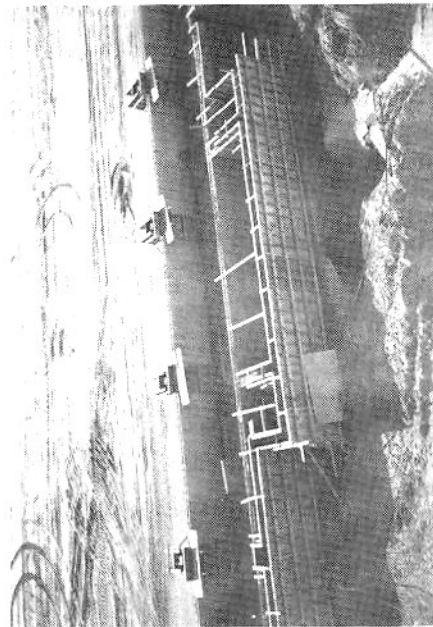
TRACKWORK INSTALLATION/YARD STORAGE AREA CONTRACT A610/A115



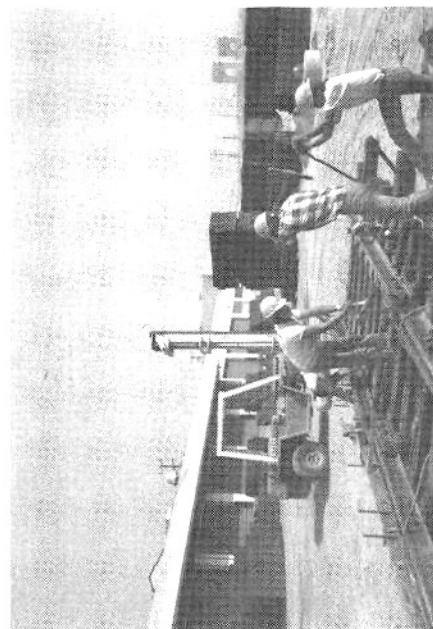
STARTED PLACEMENT OF INITIAL BALLAST FOR
TAIL TRACKS, LOOKING SOUTH TOWARDS
6TH STREET BRIDGE



CONTINUED PLACEMENT OF SUBBALLAST, BASE
LINE STATION 23+00 TO 27+00, TRACKS 1 THRU 9,
LOOKING SOUTH TOWARDS 4TH STREET BRIDGE



CONSTRUCTION OF HEAVY CAR CLEANING PLATFORM,
LOOKING EAST FROM MAIN SHOP BUILDING TOWER



PRE-ASSEMBLING TURNOUT SWITCHES
FOR YARD TRACKS, EAST OF M.O.W. BUILDING

Parsons-Dillingham-De Leuw, Cather



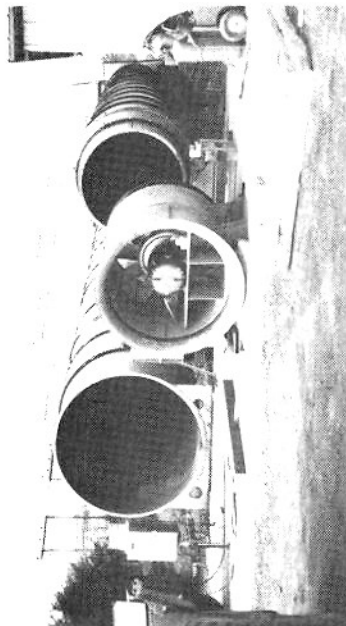
LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

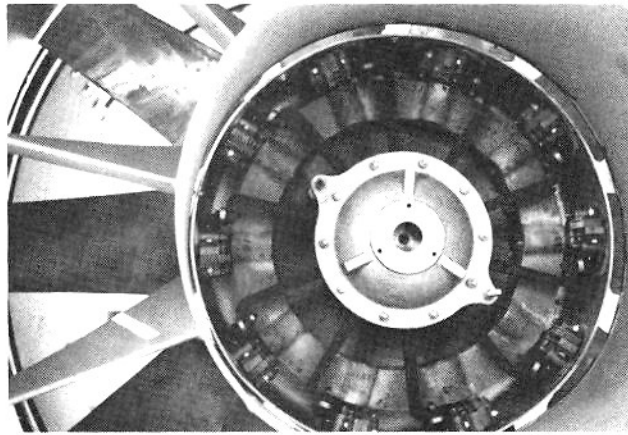
POCD

PERIOD JUNE 1989

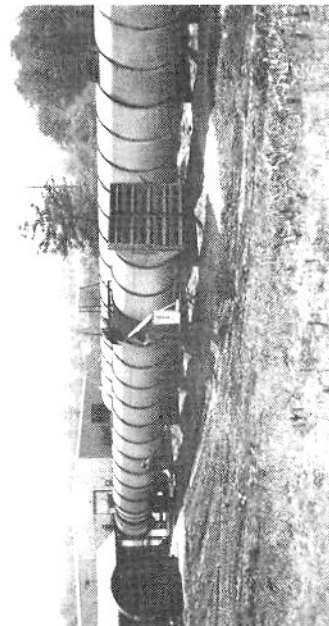
VENTILATION EQUIPMENT CONTRACT A740



UNDERPLATFORM FAN/MOTOR



VARIABLE PITCH MECHANISM FOR
UNDERPLATFORM FAN/MOTOR



WIND TUNNEL FOR UNDERPLATFORM FAN/MOTOR TEST



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

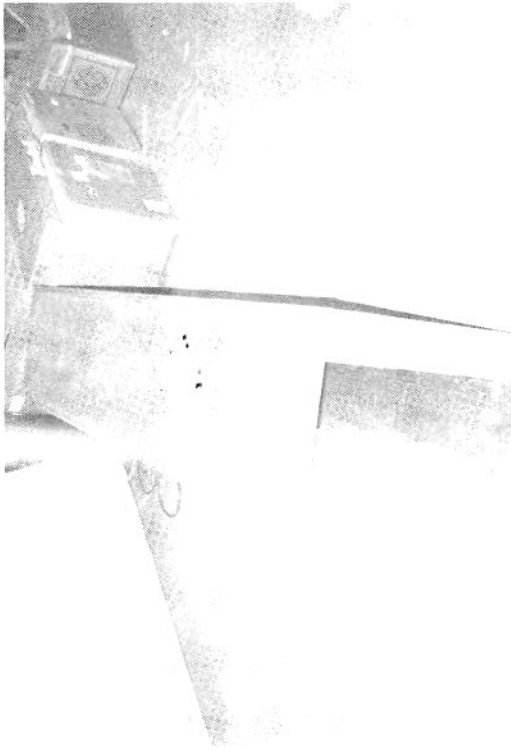
PDCD

PERIOD JUNE 1989

VENTILATION EQUIPMENT CONTRACT A740 (Contd)



TEST SET UP FOR SOUND ATTENUATOR



SOUND ATTENUATOR MODULE



LOS ANGELES METRO RED LINE CONTRACT PERFORMANCE REPORT

POCD

PERIOD JUNE 1989

HANDLING OF HAZARDOUS MATERIALS CONTRACT A750



TEMPORARY STORAGE FACILITY FOR CONTAMINATED SOIL



CONTAMINATED SOIL BEING LOADED FROM TEMPORARY
STORAGE FACILITY PRIOR TO DISPOSAL

Parsons-Dillingham-De Leuw, Cather

PROJECT HIGHLIGHTS

(JULY 1, 1988 TO JUNE 30, 1989)





LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

X. PROJECT HISTORY

The Project History included in this June 1989 Contract Performance Report is a summary, presented on a monthly basis, of key Metro Red Line program-related events and activities significant to the Project that occurred during the 5th AWP from July 1988 through June 1989.

JULY 1988

- o A130 received Notice to Proceed.
- o A130 started demolition activities.

AUGUST 1988

- o Underwriters reduce insurance premium by 13% for 1989 based on Metro Rail Safety record.
- o A165 completed installation of deck beams & mats on Flower Street.
- o A165 completed utility relocation at Barker Brothers Building and building restoration and utility relocation at Bank of America.

SEPTEMBER 1988

- o A165 completed installation of vertical conveyor system for excavation.
- o A710 Elevators/Escalators received Notice to Proceed.
- o PDCD completed geologic field mapping and monitoring of the magnetometer surveys for A171 AR tunnel.
- o A145 Contractor completed installing temporary bridge decking.

OCTOBER 1988

- o A146 started tunneling through AL Test Area #2.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- o A165 began installation of HDPE membrane.
- o A146 completed compaction grouting at International Jeweler's Center.
- o A165 completed removal of asbestos-containing material from LRT and MRT areas at Roosevelt Building.
- o A640 completed conceptual design review.
- o A740 delivered Damper companion flanges to Stations A141, A165, and A175.

NOVEMBER 1988

- o A146 completed tunneling through and grouting of Test Area #2.
- o A165 placed first station concrete slab at LRT interface.
- o A165 completed deck beams and mat installation.
- o A146 began installation of replacement compaction grout holes and instrumentation at LA Jewelry Mall and California Jewelry Mart.
- o A175 placed first structural concrete for N.W. blast relief shaft base slab.

DECEMBER 1988

- o A146 completed installation of compaction grouting replacement holes and instrumentation.
- o A146 recommenced AL tunneling and compaction grouting of Pershing Square Garage.
- o A146 completed compaction grouting of Pershing Square Garage.
- o A146 began tunneling under California Jewelry Mart Building.
- o A175 finished station excavation (except for Interface area).

Parsons-Dillingham-De Leuw, Cather



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

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PERIOD JUNE 1989

- o Completed asbestos abatement work for A165 and for the Boiler Room and Platform Utility Tunnel within the Baggage Room Relocation area, Union Station, A135.
- o As-built survey for the A146 AL tunnel and the A171 AR tunnel completed.

JANUARY 1989

- o First use of chemical grout on the A146 project.
- o A135 excavation began on first slurry wall panel.
- o A610/115 first out of state product inspection; timber tie production process at Washington Plant.
- o A135 first slurry wall panel is placed.
- o A620/A640 Interface Meeting No. 1 held.
- o A740 completed review of test procedures for dampers and sound attenuators.

FEBRUARY 1989

- o California Department of Health Services issued variance to SCRID which permitted operation of Contaminated Soil Storage Area at Macy & Vignes adjacent to Ground Water Treatment Facility.
- o A740 delivered damper companion flanges to stations A130 and A145.

MARCH 1989

- o Completed placement of all A171 AL tunnel invert concrete.
- o A135 asbestos abatement commenced in REA building at Union Station.
- o Commenced operation of Contaminated Soil Storage Area at Water Treatment Facility.
- o Contract A167 7th/Flower Station, Stage II awarded.



LOS ANGELES METRO RED LINE

CONTRACT PERFORMANCE REPORT

PDCD

PERIOD JUNE 1989

- o Structural steel erection commences at Baggage Handling Facility (A135).
- o Obtained temporary occupancy permit for AMTRAK machine shop (A141).
- o A610/A115 started pre-plating timber ties for yard tracks.

APRIL 1989

- o A171 began installing AL tunnel arch forms.
- o A135 conveyor installation commences in Baggage Handling Facility.
- o A171 completed AR tunnel invert concrete.
- o California Regional Water Quality Control Board conducted site visit to A141, A144, A171 and A175.

MAY 1989

- o A146 completed mining AL tunnel section.
- o A141 completed mining AR tunnel Union Station to Civic Center Station; media event of "hole-thru" on May 5.
- o Lowered A146 AR tunnel shield into access shaft.

JUNE 1989

- o A135 completed demolition of LAUPT Passenger Tunnel.
- o A171 completed AL tunnel arch concrete and began placing AR arch concrete.
- o A135 REA Building demolition completed.
- o A135 erection of railroad trestle begins.
- o Started placing initial ballast for A610/A115.

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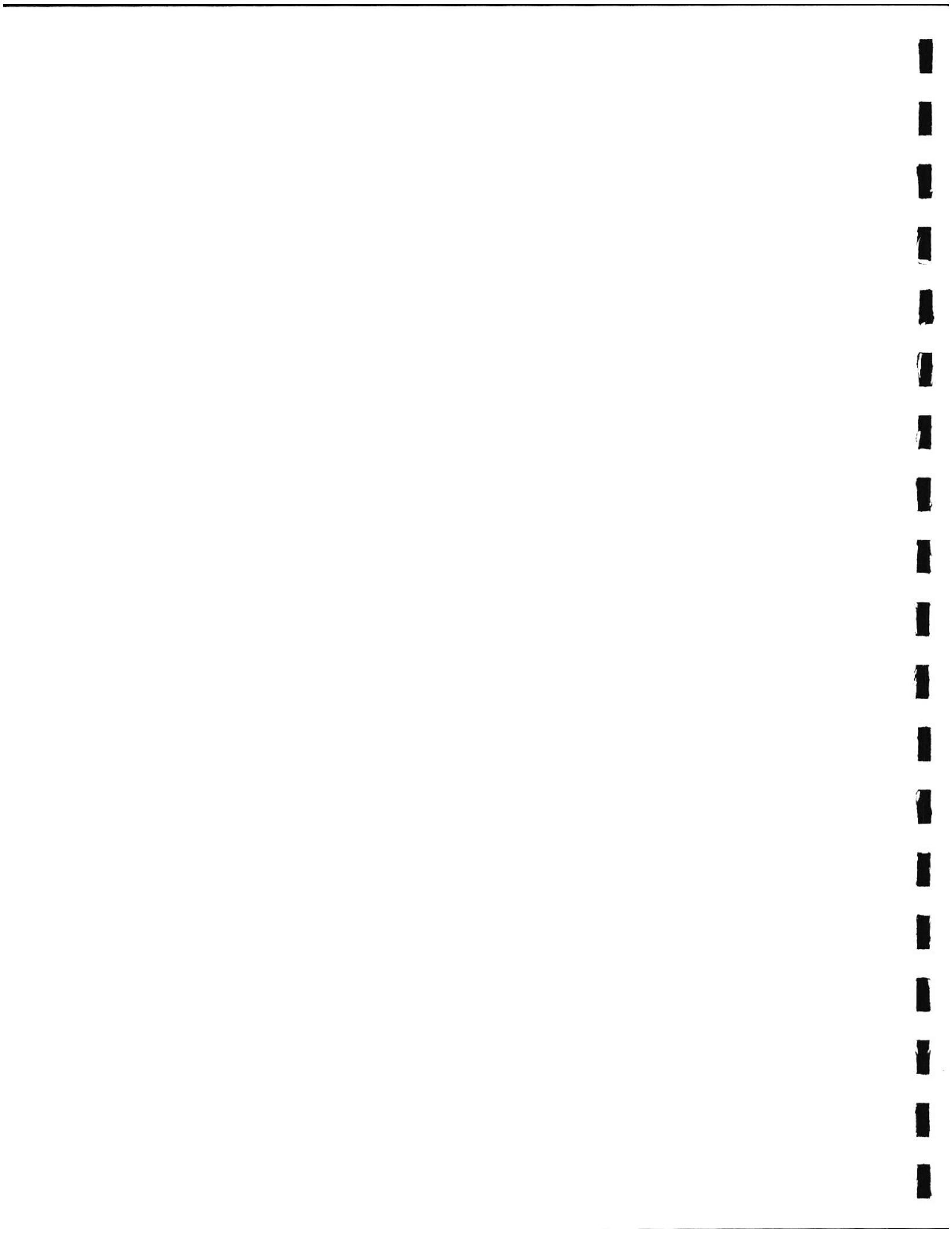


LOS ANGELES METRO RED LINE
CONTRACT PERFORMANCE
REPORT

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PERIOD JUNE 1989

- o Obtained Permanent Occupancy Permit for Machine Shop (LAUPT) Union Station.
- o A135 first tiebacks for excavation support system installed.





W. 1000

