

October 25, 1990  
CH/pb harbord.pb

Introduced by: Audrey Gruger

Proposed No.: 90-891

**9682**

ORDINANCE NO. \_\_\_\_\_

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AN ORDINANCE making the following appropriations: \$1,067,957 to Harborview Medical Construction - 1977, Fund 387; \$8,288,627 to Harborview Long Range Capital Improvement Projects, Fund 3120; and \$164,343 to Harborview Repair and Replacement, Fund 3961; and amending Ordinance No. 9221, Section 92, Attachments No. 1 and 2, as amended.

BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

SECTION 1. There is hereby approved and adopted an appropriation of \$1,052,347 to CIP Project No. 668294, Ambulatory Care Project and \$15,610 to Project No. 668270, 1% for Art Fund 387, from unallocated bond proceeds in Fund 387.

SECTION 2. There is hereby approved and adopted an appropriation of \$6,206,318 to CIP Project No. 678294, Trauma Center Project; \$1,961,463 to Project No. 678296, Bed Replacement Project; and \$120,846 to Project No. 668279, 1% for Art Fund 3120, from unallocated bond proceeds in Fund 3120.

SECTION 3. There is hereby approved and adopted an appropriation of \$114,105 to Project No. 678268, King County Public Health Lab; \$47,694 to Project No. 678265, King County Tuberculosis Clinic; and \$2,544 to Project No. 678277, 1% for Art Fund 3961, from the Trauma Center Building Equity Fund within Fund 3961.

SECTION 4. Ordinance No. 9221, Section 92, Attachments 1 and 2, as amended, are hereby amended by adding thereto and inserting therein the following:

CIP PROJECT APPROPRIATIONS - From the several capital improvement project funds there are hereby appropriated and authorized to be disbursed the following amounts for specific projects identified in Attachment No. 1, as adjusted by Attachment No. 2, of this ordinance

<u>Fund</u>	<u>Capital Fund</u>	
387	Harborview Medical Construction - 1977	\$1,067,957

1           3120           Harborview Long Range Capital  
 2                           Improvement Projects                           \$8,288,627  
 3           3961           Harborview Repair and Replacement           \$ 164,343

4           Provided that:

- 5           1. King County endorses the effort of the Harborview Board  
 6           of Trustees to seek waiver of unforeseen road vacation  
 7           costs associated with the Harborview Medical Center bond-  
 8           funded capital projects;  
 9           2. Further 1 percent for Art appropriations for the  
 10          Harborview improvements will be considered based on an art  
 11          project plan for the Medical Center. The Arts Commission  
 12          is encouraged to apply a cost guideline of 15 percent for  
 13          project administration and planning expenses;  
 14          3. The Harborview Project Manager request the architect to  
 15          purchase the \$100,000 lower project insurance deductible;  
 16          4. No contingency reserve funds be expended without written  
 17          approval of the Council Health, Housing and Human Services  
 18          Committee Chair and approval of the HMC Oversight  
 19          Committee;  
 20          5. The HMC Oversight Committee obtain and review specific  
 21          cost estimates and approve such estimates prior to  
 22          completion of contracts for equipment planning and signage.

23          INTRODUCED AND READ for the first time this 22nd day  
 24          of October, 1990.

25          PASSED this 29th day of October, 1990.

26                           KING COUNTY COUNCIL  
 27                           KING COUNTY, WASHINGTON

28   Lois North  
 29   Chair

30          ATTEST:

31          Gerald A. Peltier  
 32                           Clerk of the Council

33          APPROVED this 9th day of November, 1990.

34   Jim Hill  
   King County Executive

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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON  
 FILE: SP\_LDR1.WK1

JUNE 8, 1990

PAGE: 1 of 7

I. WAREHOUSE RENODEL  
 A. Loading Dock Relocation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Construct mezzanine within the existing building, including tying into existing structure	4,000	SF	30.00	120,000
2.	Allowance for foundations, including breaking up & repairing existing slab	4,000	SF	7.50	30,000
3.	Carefully demolish and remove boiler and stack	1	LS	60,000.00	60,000
4.	Entrance/exit doors to facility, cutting & patching	1	LS	10,000.00	10,000
5.	Allowance for interior partitions & doors to accommodate functions as outlined (see Note #4)	8,000	SF	4.00	32,000
6.	Floor, ceiling & wall finishes	8,000	SF	3.00	24,000
7.	Specialty allowance	8,000	SF	2.00	16,000
8.	Service elevator (built into existing structure)	1	LS	80,000.00	80,000
9.	New shafts, pits				Combined w/ Above
10.	Plumbing allowance	8,000	SF	2.40	19,200
11.	HVAC allowance	8,000	SF	7.25	58,000
SUBTOTAL, Carried Forward					449,200

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I. WAREHOUSE REMODEL  
 A. Loading Dock Relocation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
SUBTOTAL, Carried Forward					449,200
12.	Fire protection	8,000	SF	2.10	16,800
13.	Special mechanical systems	8,000	SF	1.20	9,600
14.	Allowance for electrical service & distribution	8,000	SF	2.00	16,000
15.	Allowance for lighting & power	8,000	SF	3.50	28,000
16.	Fire alarm, security & other special electrical allowance	8,000	SF	3.50	28,000
17.	Loading dock equipment & other fixed equipment	1	LS	70,000.00	70,000
18.	Site demolition (as required) outside footprint of building	1	LS	5,000.00	5,000
19.	Unloading canopy	40	LF	350.00	14,000
20.	Demolish and remove existing conditions where new work occurs	1	LS	10,000.00	10,000
21.	Clean existing surfaces, new finish	1	LS	20,000.00	20,000
SUBTOTAL, Carried Forward					666,600

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I. WAREHOUSE REMODEL  
A. Loading Dock Relocation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
SUBTOTAL, Carried Forward					666,600

22. Allowance for reworking existing exterior closure to accommodate new receiving areas 1 LS 15,000.00 15,000

23. Entrance/exit doors to facility, cutting & patching 1 LS 10,000.00 10,000

24. Landscaping - trees, shrubs, fencing, etc. 1 LS 10,000.00 10,000

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SUBTOTAL - Loading Dock Relocation					701,600
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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
 B. Construct New Tunnel

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Drill for steel pile	700	LF	15.00	10,500
2.	Steel H pile	20	TN	1,200.00	24,000
3.	Lean mix concrete to surround pile	82	CY	50.00	4,100
4.	Excavate (in one lane widths) for tunnel and remove	1,500	CY	15.00	22,500
5.	Timber lagging	3,200	SF	8.00	25,600
6.	Concrete to base of tunnel	65	CY	100.00	6,500
7.	Concrete to walls	160	CY	240.00	38,400
8.	Concrete in suspended slab	75	CY	240.00	18,000
9.	Controlled density fill	450	CY	20.00	9,000
10.	Precast concrete plank	1,600	SF	7.00	11,200
11.	Asphalt paving	2,400	SF	1.00	2,400
12.	Site preparation, phasing, temporary signage, protection	1	LS	15,000.00	15,000
----- SUBTOTAL, Carried Forward					187,200

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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
 B. Construct New Tunnel

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
SUBTOTAL, Carried Forward					187,200
13.	Patch & repair as necessary to surrounding areas	1	LS	15,000.00	15,000
14.	Allowance for connection to south wing including demolition, temporary protection	1	LS	30,000.00	30,000
15.	Allowance for locating, temporarily supporting all utilities in 9th Avenue	1	LS	10,000.00	10,000
16.	Finish to inside surfaces of tunnel	4,800	SF	1.00	4,800
17.	Bumper guards	150	LF	12.00	1,800
18.	Plumbing allowance	1	LS	6,000.00	6,000
19.	Heating & ventilating	1,600	SF	3.00	4,800
20.	Fire protection	1,600	SF	2.00	3,200
21.	Lighting & power	1,600	SF	4.00	6,400
22.	Equipment allowance	1	LS	5,000.00	5,000
23.	Materials handling/ingress, egress	1	LS	15,000.00	15,000
SUBTOTAL - Construct New Tunnel					289,200

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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

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PAGE: 6 of 7

I. WAREHOUSE REMODEL  
C. Waterproofing Existing Tunnels

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Waterproofing of existing tunnels (preliminary estimate)	1	LS	300,000.00	300,000

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SUBTOTAL - Waterproof Existing Tunnels 300,000  
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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

I. SUMMARY OF CONSTRUCTION COSTS

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
	SUBTOTAL - A. Loading Dock Relocation				701,600
	SUBTOTAL - B. Construct New Tunnel				289,200
	SUBTOTAL - C. Waterproof Existing Tunnels				300,000
	SUBTOTAL - Base Construction Costs				1,290,800
	Estimating Contingency (15%)				193,620
	Escalation (14.32%)				184,843
	SUBTOTAL - Net Building Cost				1,669,263
	Contractor Overhead and Profit (15%)				250,389
	MACC - Maximum Allowable Construction Cost				1,919,652

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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON  
FILE: SP\_SITE1.WK1

JUNE 8, 1990

PAGE: 1 of 5

II. SITE MODIFICATIONS

A. Helipad

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Imported fill to bring to levels	400	CY	15.00	6,000
2.	Asphalt paving	1,500	SF	1.50	2,250
3.	Drainage allowance	1	LS	1,000.00	1,000
4.	Retaining wall				NOTE #1
5.	Allowance for grading to falls & slope	1	LS	1,000.00	1,000
6.	Chainlink fence	480	LF	16.00	7,680
7.	Helipad lighting	1	LS	3,000.00	3,000
8.	Allowance for reworking access for ambulances	1	LS	3,000.00	3,000
9.	Landscaping (shrubs)	1	LS	4,000.00	4,000
10.	Miscellaneous site improvements	1	LS	1,000.00	1,000
11.	Blast fence	100	LF	15.00	1,500

SUBTOTAL - Helipad

30,430

NOTES:

1. This item is covered in the estimate for ingress/egress drive modifications.

II. SITE MODIFICATIONS  
B. Ingress/Egress Drive Modifications

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Retaining Wall	1,000	SF	20.00	20,000
2.	Contouring, earthmoving	1	LS	7,000.00	7,000
3.	Asphalt paving	5,800	SF	1.00	5,800
4.	Patch & repair	1	LS	2,000.00	2,000
5.	Allowance for curb cuts, signage	1	LS	2,000.00	2,000
6.	Landscaping	1	LS	2,400.00	2,400

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SUBTOTAL - Ingress/Egress Drive Modifications

39,200  
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II. SITE MODIFICATIONS  
C. 8th Avenue ROW Vacation  
(Utilities Relocation)

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Root Pruning	1	LS	3,500.00	3,500
2.	Take up and remove parking meters	25	EA	200.00	5,000
3.	Master water meters	2	EA	20,200.00	40,400
4.	Remove existing meter at 2" line	1	EA	100.00	100
5.	Remove existing meter at 3" line	1	EA	550.00	550
6.	Relocate existing hydrants	2	EA	2,600.00	5,200
7.	Purchase existing hydrant	1	EA	550.00	550
8.	Remove 8" fire service meter	1	EA	650.00	650
9.	Relocate 2" line & meter for WashDOT	1	EA	2,500.00	2,500

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SUBTOTAL - 8th Avenue ROW Vacation (Utilities Relocation)  
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58,450

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II. SITE MODIFICATIONS  
D. 8th Avenue ROW Vacation  
(Cul-De-Sac Construction)

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	New curb	750	LF	10.00	7,500
2.	Driveway openings	10	EA	1,000.00	10,000
3.	Site demolition and removal	1	LS	6,000.00	6,000
4.	Concrete walk	7,000	SF	3.00	21,000
5.	Relocate trees and lightpole	1	LS	3,750.00	3,750
6.	Line marking	1	LS	1,000.00	1,000
7.	Patch and repair	1	LS	5,000.00	5,000
8.	Miscellaneous items	1	LS	3,500.00	3,500

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SUBTOTAL - 8th Avenue ROW Vacation (Cul-De-Sac Construction) 57,750  
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HARBORVIEW MEDICAL CENTER  
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ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
	SUBTOTAL - A. Helipad				30,430
	SUBTOTAL - B. Ingress/Egress Drive Modifications				39,200
	SUBTOTAL - D. Bth Avenue Vacation (Cul-De-Sac Construction)				58,450
	SUBTOTAL - C. Bth Avenue Vacation (Utilities Relocation)				57,750
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	SUBTOTAL - Base Construction Cost				185,830
	Estimating Contingency (15%)				27,875
	Escalation (10.32%)				19,178
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	SUBTOTAL - Net Construction Cost				232,882
	Contractor Overhead and Profit (15%)				34,932
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					267,814
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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON  
 FILE: SP\_WHRE1.WK1

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
 A. General Renovation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Relocation costs (temporary)				NOTE #1
2.	Relocation costs (permanent); paint shop				NOTE #1
3.	Demolish and remove existing conditions where new work occurs	1	LS	20,000.00	20,000
4.	Prepare building for new construction, including but not limited to temporary protection, access, etc.	1	LS	10,000.00	10,000
5.	Construct mezzanine within the existing building, including tying into existing structure				NOTE #2
6.	Allowance for foundations, including breaking up & repairing existing slab				NOTE #2
7.	Replace existing windows throughout	1,400	SF	25.00	35,000
8.	Allowance for reworking existing exterior closure to accommodate new receiving areas	1	LS	15,000.00	15,000
9.	Clean existing surfaces, refinish	1	LS	20,000.00	20,000
10.	Carefully demolish and remove boiler and stack				NOTE #3
SUBTOTAL, Carried Forward					100,000

## NOTES:

- Relocation costs will be borne by the owner outside of project construction costs.
- All items directly related to renovation work required for relocation of Loading Dock functions have been eliminated from this estimate.
- This estimate is based on the assumption that this demolition, though desirable, is required by neither the code nor the program.

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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

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I. WAREHOUSE REMODEL  
 A. General Renovation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
SUBTOTAL, Carried Forward					100,000
11.	Entrance/exit doors to facility, cutting & patching	1	LS	5,000.00	5,000
12.	Remove existing roof, install new	16,000	SF	8.00	128,000
13.	Infilling at roof	1	LS	5,000.00	5,000
14.	Allowance for interior partitions & doors to accommodate functions as outlined (see Note #4)	18,000	SF	4.00	72,000
15.	Floor, ceiling & wall finishes	18,000	SF	3.00	54,000
16.	Specialty allowance	18,000	SF	2.00	36,000
17.	Service elevator (built into existing structure)	1	LS	60,000.00	60,000
18.	New shafts, pits				Combined w/ Above
19.	Plumbing allowance	18,000	SF	2.30	41,400
20.	HVAC allowance	18,000	SF	7.25	130,500
21.	Protection of existing vents	1	LS	1,000.00	1,000
22.	Fire protection	18,000	SF	2.10	37,800
23.	Special mechanical systems	18,000	SF	1.20	21,600
SUBTOTAL, Carried Forward					692,300

## NOTES:

4. 16,000 SF is the approximate amount of floor area anticipated in the renovated facility.



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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
 A. General Renovation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
-----					
	SUBTOTAL, Carried Forward				692,300
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24.	Allowance for electrical service & distribution	18,000	SF	2.00	36,000
25.	Allowance for lighting & power	18,000	SF	3.25	58,500
26.	Fire alarm, security & other special electrical allowance	18,000	SF	3.25	58,500
27.	Loading dock equipment & other fixed equipment	1	LS	30,000.00	30,000
28.	Site demolition (as required) outside footprint of building	1	LS	5,000.00	5,000
29.	Site paving	10,000	SF	1.25	12,500
30.	Regrade alley/retaining walls	1	LS	10,000.00	10,000
31.	Allowance for curbs, sidewalks, ramps	1	LS	4,500.00	4,500
32.	Remove existing coal vault	1	LS	10,000.00	10,000
33.	Structural upgrade to north tunnel	1	LS	25,000.00	25,000
34.	Unloading canopy				NOTE #2
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	SUBTOTAL, Carried Forward				942,300
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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
A. General Renovation

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
SUBTOTAL, Carried Forward					942,300
35.	Street trees				Deleted
36.	Allowance for site utilities/ relocate electric lines	1	LS	25,000.00	25,000
37.	Site lighting	1	LS	5,000.00	5,000
38.	Fill existing UST	1	LS	6,000.00	6,000
39.	Remove existing UST	3	LS	15,000.00	45,000
SUBTOTAL - General Renovation					1,023,300

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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
B. Construct New Tunnel

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Drill for steel pile				NOTE #2
2.	Steel H pile				NOTE #2
3.	Lean mix concrete to surround pile				NOTE #2
4.	Excavate (in one lane widths) for tunnel and remove				NOTE #2
5.	Timber lagging				NOTE #2
6.	Concrete to base of tunnel				NOTE #2
7.	Concrete to walls				NOTE #2
8.	Concrete in suspended slab				NOTE #2
9.	Controlled density fill				NOTE #2
10.	Precast concrete plank				NOTE #2
11.	Asphalt paving				NOTE #2
12.	Site preparation, phasing, temporary signage, protection				NOTE #2
----- SUBTOTAL, Carried Forward					0

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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
B. Construct New Tunnel

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
-----					
	SUBTOTAL, Carried Forward				0
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13.	Patch & repair as necessary to surrounding areas				NOTE #2
14.	Allowance for connection to south wing including demolition, temporary protection				NOTE #2
15.	Allowance for locating, temporarily supporting all utilities in 9th Avenue				NOTE #2
16.	Finish to inside surfaces of tunnel				NOTE #2
17.	Bumper guards				NOTE #2
18.	Plumbing allowance				NOTE #2
19.	Heating & ventilating				NOTE #2
20.	Fire protection				NOTE #2
21.	Lighting & power				NOTE #2
22.	Equipment allowance				NOTE #2
-----					
	SUBTOTAL - Construct New Tunnel				0
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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

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PAGE: 7 of 12

I. WAREHOUSE REMODEL  
C. Emergency Generators

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	900 KW generator	2	EA	185,000.00	370,000
2.	8000 A switchboard with automatic paralleling/load shedding controls	1	EA	120,000.00	120,000
3.	Feeders (quantities provided by Electrical Consultant)	1	LS	150,000.00	150,000
4.	Relocate 450 KW generator	2	EA	10,000.00	20,000
5.	Fuel tank, 20,000 gallon	2	EA	20,000.00	40,000
6.	Miscellaneous connections, cutting, patching, hangers	1	LS	50,000.00	50,000

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SUBTOTAL - Emergency Generators

750,000  
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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

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I. WAREHOUSE REMODEL  
 D. Medical Air Compressors

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	400 A feeder	250	LF	15.00	3,750
2.	400 A ATS	1	EA	11,000.00	11,000
3.	4" diameter copper, type L main	640	LF	45.00	28,800
4.	Allowance for fittings	1	LS	5,000.00	5,000
5.	Allowance for demolition & repairs where new piping installed	1	LS	15,000.00	15,000
6.	Disconnect and relocate equipment	1	LS	10,000.00	10,000
7.	Test compressor & associated pipework	1	LS	1,000.00	1,000
8.	Cap existing pipework	1	LS	1,000.00	1,000
9.	Housekeeping pads	1	LS	5,000.00	5,000
10.	Cold water supply	1	LS	1,200.00	1,200
11.	Floor Drain	1	LS	1,000.00	1,000
12.	Miscellaneous fittings	1	LS	3,000.00	3,000
----- SUBTOTAL - Medical Air Compressors					85,750

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HARBORVIEW MEDICAL CENTER  
 SITE PREPARATION PROJECT  
 SEATTLE, WASHINGTON

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PAGE: 9 of 12

## I. WAREHOUSE REMODEL

## E. Bulk Oxygen Storage Tanks (Site Development)

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	Concrete Pad	448	SF	10.00	4,480
2.	Security fencing	88	LF	25.00	2,200
3.	Access gate	2	EA	500.00	1,000
4.	Truck pad with spillway containment	1,000	SF	10.00	10,000
5.	Take down & remove overhead power lines, provide temporary service				NOTE #4
6.	New underground service	1	LS	15,000.00	15,000
7.	Manholes	2	EA	5,000.00	10,000
8.	Rework existing coal vault				NOTE #4
9.	Modify entrance @ Alder & Terrace Streets	1	LS	20,000.00	20,000
10.	2-1/2" copper main	800	LF	25.00	20,000
11.	Fittings	1	LS	5,000.00	5,000
12.	Allowance for direct burying pipe	1	LS	3,000.00	3,000
13.	Medical gas alarm wiring to CCC	1	LS	1,500.00	1,500
----- SUBTOTAL, Carried Forward					92,180

## NOTES:

4. This work has been included in the estimate for General Renovation.

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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL  
E. Bulk Oxygen Storage Tanks (Site Development)

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ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
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SUBTOTAL, Carried Forward 92,180

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14.	Miscellaneous cutting & patching	1	LS	6,000.00	6,000
15.	Site utilities/connecting lines	1	LS	6,000.00	6,000
16.	Storage tank removal			NIC	NIC

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SUBTOTAL - Bulk Oxygen Storage Tanks (Site Development)					104,180
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HARBORVIEW MEDICAL CENTER  
SITE PREPARATION PROJECT  
SEATTLE, WASHINGTON

JUNE 8, 1990

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I. WAREHOUSE REMODEL

E. Bulk Oxygen Storage Tanks (Equipment Purchased By Owner)

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
1.	9000 gallon bulk oxygen storage tanks with all associated vaporizers, pipework, gauges and connections	1	EA	115,000.00	115,000
SUBTOTAL - F. Bulk Oxygen Storage Tanks (Equipment Purchased By Owner)					115,000
Estimating Contingency (15%)					17,250
Escalation (10.32%)					11,868
SUBTOTAL - Net Equipment Cost					144,118
Contractor Overhead and Profit (10%)					14,412
TOTAL					158,530

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I. WAREHOUSE REMODEL  
SUMMARY OF CONSTRUCTION COSTS

ITEM #	DESCRIPTION	QUANTITY	UNIT	UNIT COST	ESTIMATE TOTAL
	SUBTOTAL - A. General Renovation				1,023,300
	SUBTOTAL - B. Construct New Tunnel				0
	SUBTOTAL - C. Emergency Generators				750,000
	SUBTOTAL - D. Medical Air Compressors				85,750
	SUBTOTAL - E. Bulk Oxygen Storage Tanks (Site Development)				104,100
	SUBTOTAL - Base Construction Costs				1,963,230
	Estimating Contingency (15%)				294,485
	Escalation (10.32%)				202,605
	SUBTOTAL - Net Building Cost				2,460,320
	Contractor Overhead and Profit (15%)				369,048
	MACC - Maximum Allowable Construction Cost				2,829,368