COLUMBIA PARK POOL ALTERATION 1969

for the

BUREAU OF PARKS & RECREATION

CITY OF PORTLAND

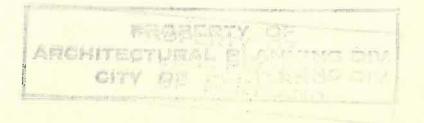
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BUREAU OF PARKS & RECREATION

CITY OF PORTLAND



PROPOSAL: Columbia Park Pool Alteration 1969
Bureau of Parks and Recreation
For the City of Portland, Oregon

TO: City of Portland, Oregon % Purchasing Agent Room 209, City Hall Portland, Oregon 97204

Danie Dide (837 ---- 7-4-)

Gentlemen:

1. The undersigned, having full knowledge of the requirements and conditions and having inspected the premises on which the work is to be done, hereby proposes to furnish all materials, labor and equipment for "Columbia Park Pool Alterations 1969 for the Bureau of Parks and Recreation" in strict accord with the drawings and specifications for same dated January 8, 1970 and any addenda thereto issued prior to the date of bid opening, all as prepared by the Architectural Planning Division, City of Portland, Loyal C. Lang, Supervising Architect, for the following sum:

Alternate No. 1 (To eliminate shelter at W	est side of Pool).
Deduct	

- 2. All work shall be completed within one-hundred (100) calendar days after transmission of the agreement, signed by both parties, from the City to the Contractor.
- 3. The undersigned bidder understands that determination of the successful bidder and award of the contract is subject to review and determination by the City Attorney as to legal sufficiency of any submittal.
- 4. Enclosed herewith or previously filed with the City of Portland is a certified check or an approved bid bond in an amount equal to at least ten percent (10%) of the amount of the basic bid, and payable to the order of the City of Portland. Said amount shall be paid to the City of Portland as liquidated damages if the undersigned is tendered a contract for this project and neglects or refuses to sign the contract or to furnish an approved performance and payment bond, or to furnish evidence of required insurance, all within ten (10) days after receiving the form of agreement from the City Auditor. All such checks or bid bonds shall be retained by the City of Portland for a period of time as set forth in Section 4-1301.2 of the Finance Code of the City of Portland.

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PROPOSAL: Columbia Park Poch Alteration 1969
Bureau of Parks and Recreation
For the City of Portland, Oregon

5. The bidder states below whether he is doing business as an individual, a co-partnership, or as a corporation. If a co-partnership, all partners are named and the person signing on behalf of the co-partnership states his position with the co-partnership. If a corporation, the bidder gives the state of incorporation, whether it is licensed to do business in the State of Oregon, and the position of the person signing in behalf of the corporation.

	Firm:	
	Business as:	
****	State of Incorporation:	-
	Partners:	
	The state of the s	_
		_
	By:	
	(Signature and Title)	
	Address:	-
Date:		

COLUMBIA PARK POOL ALTERATION 1969 For the BUREAU OF PARKS & RECREATION

City of Portland

January 8, 1970

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DRAWINGS

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Prepared by Architectural Planning Division Loyal C. Lang, A.I.A., Supervising Architect Project No. 68.53

INSTRUCTION TO BIDDERS

PROPOSAL

Proposals and bid bond, certified check or cashier's check shall be enclosed in a sealed envelope and addressed as required in the Notice to Contractors and filed as required therein. The Plans and Specifications must be returned with the proposal.

All proposals must be clearly and distinctly typed or written with ink or indelible pencil without any erasures or changes, and any erasure or change may invalidate the proposal.

All proposals must be on the form furnished by the City. Any statement accompanying and tending to qualify a bid may cause rejection of such bid, unless such statement is required in a proposal embracing alternative bids.

WITHDRAWAL OF PROPOSAL

A proposal may be withdrawn on written or telegraphic request of the bidder received prior to the scheduled closing time for filing bids. Negligence on the part of the bidder in preparing his proposal confers no right to withdraw his proposal after the scheduled closing time for filing bids.

LATE PROPOSALS

Proposals received after the scheduled closing time for filing bids, as set forth in the Notice to Contractors, will be returned to the bidder unopened, unless such closing time is extended by the City or unless, if such bid was sent through the mail, a legible postmark cancellation shows the time of mailing to be such that normal mail delivery time would have provided delivery to the City prior to the scheduled closing time for filing bonds, and such proposal is received before the award has been made.

ALTERATION OF DOCUMENTS

Except as may be provided otherwise herein, proposals which are incomplete, or fail to cover all items of the Plans or Specifications may be rejected.

MODIFICATION OF PROPOSAL

Change in a proposal already delivered will be permitted only if a request for the privilege of making such modification is made in writing signed by the bidder and the specific modification itself is stated and received prior to the scheduled closing time for filing bids. However, a modification which is received from an otherwise successful bidder and which makes the terms of the bid more favorable or advantageous to the City will be considered at any time it is received and may thereafter be accepted. To be effective every modification must be made in writing over the signature of the bidder.

BID GUARANTY

Each proposal must be accompanied by a corporate surety bond, certified check or cashier's check payable to the City Treasurer for an amount not less than ten percent (10%) of the total amount of the bond. If a bid bond is submitted in lieu of a certified check, such bid bond shall be on the form provided with these specifications.

Such check or bid bond shall be forfeited to the City as liquidated damage in case the bidder fails or refuses to enter into a contract and furnish a satisfactory bond within ten (10) calendar days after tender of form of contract by the City.

Whenever the City receives a signed approved contract together with the required evidence of insurance and performance bond, or rejects all bids, the bid guaranties then being held by the City will be returned. In any case, no more than thirty days after award of the contract, the bid guaranties of all except the successful bidder and the next best bidder will be returned.

If the successful bidder fails, neglects or refuses to enter into a contract, the City may award the contract to the next best bidder.

ADDENDA TO PLANS OR SPECIFICATIONS

Requests for additional information or for interpretation of the contract documents shall be delivered to the Architect, in writing, at least six (6) days before the date set for opening of bids. If, in the opinion of the Architect, additional information or interpretation is needed by the bidders, an addendum will be issued to all planholders. The provisions of any written addenda issued by the Architect at least forty-eight (48) hours before the time set for the opening of bids shall be binding upon the bidders and failure of a bidder to obtain such addenda shall not excuse him from complying therewith, if he is awarded the contract.

BASIS OF AWARD

The award will be made by the City Council to the responsible bidder submitting the most advantageous bid to the City. In determining such bidder, the City will take into account, among other factors, the prices bid and the experience and ability of the Bidder to perform the work.

Any determination of the responsible bidder submitting the most advantageous bid and award are subject to review and determination by the City Attorney as to legal sufficiency of any bid submitted.

The City reserves the right to reject any or all bids, or waive irregularities not affecting substantial rights.

OREGON PRODUCTS

Contractor must use Oregon produced or manufactured materials with respect to common materials such as cement, sand, crushed rock, gravel, plaster, etc. in all cases where bid prices of such materials are no greater than those of similar materials produced or manufactured outside the State, in accordance with O.R.S. 279.038.

When a project involves the use of non-metallic mineral construction material or materials except cement, sand, gravel, crushed rock and plaster, and if said materials are or can be produced in Oregon, the bidder shall submit alternate bids covering use of such Oregon materials and use of materials from outside the State, if bidder proposes to use such materials from outside the State, in accordance with O.R.S. 279.040.

PREQUALIFICATION OF BIDDERS

Attention of bidders is called to the requirements of Oregon Revised Statutes, Chapter 279, relating to prequalification of bidders on public contracts, and to Article 5 of the Public Works Code (Ordinance No. 128743) of the City of Portland relating to forms, statements and other prequalification matters. Bidders are warned to file any prequalification statements required at least ten (10) days prior to the scheduled closing time for filing bids. In the event a prequalification statement has been filed with the City within the current calendar year and a bidder has been accepted as a qualified bidder upon City projects, a review of the previous statement may be made to determine whether a prospective bidder is qualified to bid upon the work under consideration and additional statements may be required. The City reserves the right to reject the proposal of any bidder who has not been prequalified for the class of work involved in the project.

"OR APPROVED EQUAL" CLAUSE

In order to establish a basis of quality, certain processes, types of machinery and equipment or kinds of materials may be specified on the plans or herein, either by description of process or by designating a manufacturer by name and referring to his brand or product designation or by specifying a kind of material. It is not the intent of these specifications to exclude other processes, equipment or materials of equal value, utility or merit.

Whenever a process is designated or a manufacturer's name, brand or item designation is given or whenever a process or material covered by patent is designated or described, it shall be understood that the words "or approved equal" follow such name, designation or description, whether in fact they do so or not.

If the bidder proposes to furnish an item process or material which he claims to be of equal value, utility or merit to the brand or manufacturer named, product or material designated, or process involved in the specifications, he shall, at least 6 days prior to the date set for opening of proposals, submit to the Architect a written statement describing or naming the item, material or process which he claims to be of equal value, utility or merit, together with samples, supporting data (including pertinent physical, mechanical, electrical, and chemical details), specifications, results of prior tests if available, a statement itemizing and explaining the differences between the item, material, or process he proposes and the specifically named or described item, material or process called for by the specifications, and other details sufficient to permit the Architect to evaluate the same. The Architect may require demonstration, additional tests, and additional data, either before or after bid opening, all to be supplied at the expense of the claimant. If the Architect determines that the proposed item, material or process is of equal value, utility or merit to the City compared to that specified, a proposal including the substitute item, material or process shall be deemed responsive, and not otherwise, to the specifications in that respect. Failure to submit such statement and data prior to bid opening shall be deemed a waiver of any objection on such ground and failure to supply additional material required after such submission shall be deemed an admission for the purposes of the bid that the item, material or process proposed shall not be approved as equal to that specified. The decision of the Architect on the proposed substitute shall be final and binding upon the bidder.

GENERAL CONDITIONS

ARTICLE 1. CONTRACT DOCUMENTS

The contract includes the Agreement and its General Conditions, its Supplementary General Conditions, the Drawings, and the Specifications. Three or more copies of each, as required, shall be signed by both parties, and one signed copy of each retained by each party.

The intent of these documents is to include all labor, materials, appliances and services of every kind necessary for the proper execution of the work, and the terms and conditions of payment therefor.

The documents are to be considered as one, and whatever is called for by any one of the documents shall be as binding as if called for by all.

ARTICLE 2. SAMPLES

The Contractor shall furnish for approval all samples as directed. The work shall be in accordance with approved samples.

ARTICLE 3. MATERIALS, APPLIANCES, EMPLOYEES

Except as otherwise noted, the Contractor shall provide and pay for all materials, labor, tools, water, power and other items necessary to complete the work.

Unless otherwise specified, all materials shall be new, and both workmanship and materials shall be of good quality.

All workmen and subcontractors shall be skilled in their trades.

ARTICLE 4. ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the City harmless from loss on account thereof. The City is the City of Portland, a municipal corporation of the State of Oregon, acting by and through its Council and its duly authorized representatives.

ARTICLE 5. SURVEYS, PERMITS, AND REGULATIONS

The City (as defined in Article 4 above) shall furnish all surveys unless otherwise specified. Permits and licenses necessary for the prosecution of the work shall be secured and paid for by the Contractor. Easements for permanent structures or permanent changes in existing facilities shall be secured and paid for by the City, unless otherwise specified. The Contractor shall comply with all laws and regulations bearing on the conduct of the work and shall notify the City if the drawings and specifications are at variance therewith.

ARTICLE 6. PROTECTION OF WORK, PROPERTY, AND PERSONS

The Contractor shall adequately protect the work, adjacent property and the public and shall be responsible for any damage or injury due to his act or neglect.

ARTICLE 7. ACCESS TO WORK

The Contractor shall permit and facilitate observation of the work by the City and its agents and public authorities at all times.

ARTICLE 8. CHANGES IN THE WORK

The City may order changes in the work, the Contract Sum and/or Contract Time being adjusted accordingly. All such orders and adjustments shall be in writing. Claims by the Contractor for extra cost must be made in writing before executing the work involved.

ARTICLE 9. CORRECTION OF WORK

The Contractor shall re-execute any work that fails to conform to the requirements of the contract and that appears during the progress of the work, and shall remedy any defects due to faulty materials or workmanship which appear within a period of one (1) year from the date of completion and acceptance of the work under the contract. The provisions of this article apply to work done by subcontractors as well as to work done by direct employees of the Contractor.

ARTICLE 10. CITY'S RIGHT TO TERMINATE CONTRACT

Should the Contractor neglect to prosecute the work properly, or fail to perform any provision of the contract, the City, after seven days' written notice to the Contractor, and its surety, if any, may without prejudice to any other remedy he may have, make good the deficiencies and may deduct the cost thereof from the payment then or thereafter due the Contractor, or at its option may terminate the contract and take possession of all materials, tools, and appliances and finish the work by such means as the City sees fit, and if the unpaid balance of the contract price exceeds the expense of finishing the work, such excess shall be paid to the Contractor, but if such expense exceeds such unpaid balance, the Contractor shall pay the difference to the City.

ARTICLE 11. CONTRACTOR'S RIGHT TO TERMINATE CONTRACT

Should the work be stopped by any public authority for a period of thirty days or more, through no fault of the Contractor, or should the work be stopped through act or neglect of the City for a period of seven (7) days, or should the City fail to pay the Contractor any payment within seven (7) days after it is due, then the Contractor upon seven additional days' written notice to the City, may stop work or terminate the contract and recover from the City payment for all work executed.

ARTICLE 12. PAYMENTS

Payments shall be made as provided in the Agreement. The making and acceptance of the final payment shall constitute a waiver of all claims by the City, other than those arising from unsettled claims or from faulty work appearing thereafter, as provided for in Article 9, and of all claims by the Contractor except any previously made and still unsettled. Payments otherwise due may be withheld on account of defective work not remedied, claims filed, damage by the Contractor to others not adjusted, or failure to make payments properly to subcontractors or for material or labor.

ARTICLE 13. CONTRACTOR'S INSURANCE

a) The Contractor shall maintain such public liability and property damage insurance as will protect the Contractor and the City from any and all claims for damage or personal injury, including death, which may arise from operations under the Agreement or in connection therewith, including all operations of subcontractors. Unless otherwise required by the Supplementary General Conditions, such insurance shall provide coverage for not less than \$100,000 for personal injury to each person, \$300,000 for each accident and \$50,000 for general property damage. Such insurance shall be without prejudice to coverage otherwise existing, and shall name as additional insureds the City of Portland and all other governmental bodies with jurisdiction in the area involved under the Contract Documents, their officers, agents, and employees, and shall further provide that the policy shall not terminate or be cancelled prior to the completion of the Agreement without first giving ten (10) days' notice in writing to the Auditor of the City of Portland.

Notwithstanding the naming of additional insureds, the said policy shall protect each insured in the same manner as though a separate policy had been issued to each; but nothing herein shall operate to increase the insurer's liability as set forth elsewhere in the policy beyond the amount or amounts for which the insurer would have been liable if only one person or interest had been named as insured.

Such insurance shall be subject to the approval of the City Attorney on behalf of the City as to the adequacy of protection.

- The Contractor shall be held responsible for all damage to the work under construction, whether from fire, water, high winds or other cause, during construction and until final completion and acceptance, even though partial payments or progress payments have been made under the Agreement. The Contractor shall, at his sole expense, obtain property insurance against the perils of fire, extended coverage, vandalism and malicious mischief, in form, amount, coverage and with a company satisfactory to the City. Such insurance shall include all items of labor and materials connected with the work, whether in or adjacent to the structure or work insured, materials in place, or to be used as a part of the permanent construction, including surplus materials and miscellaneous materials and supplies incident to the work, in an amount equal to one hundred percent (100%) of the insurable value thereof. The loss, if any, shall be made adjustable with and payable to the City as trustee for whom it may concern. Any payments made under any such policy shall inure to the benefit of the City to the extent of any loss suffered by the City, and to the Contractor as to any remaining balance, for the replacement of the loss suffered. The policy of insurance shall provide that it shall not terminate or be cancelled prior to the completion of the Agreement without first giving ten (10) days' written notice to the Auditor of the City of Portland.
- c) The Contractor and all his Subcontractors engaged on the work shall provide Workmen's Compensation coverage for all persons employed on the work to be done under the Agreement. The Contractor and all his Subcontractors shall be required to assure that his subject workmen will receive the compensation for compensable injuries provided in ORS 656.001 to 656.794 either by:
 - (1) contributing to the Industrial Accident Fund as a contributing employer; or
 - (2) qualifying as a direct responsibility employer under ORS 656.405 and 656.409.

In the event that the Contractor or any of his Subcontractors shall elect to fulfill this responsibility by qualifying as a direct responsibility employer under ORS 656.405 and 656.409, satisfactory proof of such fact shall be required. In the event that the certification as a direct responsibility employer is withdrawn, as provided in ORS 656.417, the Contractor or any Subcontractor shall thereafter, on the effective date of the withdrawal of certification, become a contributing employer.

ARTICLE 14. CONTRACTOR'S PERFORMANCE BOND

At the time of execution of the Agreement, the successful bidder must furnish a performance bond or bonds approved by the Mayor of the City of Portland and the City Attorney in an amount equal to the amount of the contract based upon the estimate of quantities or lump sum as set forth in the Proposal, conditioned upon a compliance with and fulfillment of all the terms and provisions of the contract, plans and specifications, including maintenance, repair and replacement, and all applicable laws, and the prompt payment, as due, to all persons supplying labor and/or material for the prosecution of the work provided for in the Agreement.

ARTICLE 15. SATISFACTION OF CLAIMS

The retained percentage of payments due under the Agreement, or, if none is provided for, the final payment shall not become due until the Contractor shall have first executed a receipt for all amounts paid or payable by the City under the Agreement and a release and waiver of all claims against the City growing out of and/or connected with the Agreement, in form approved by the City Attorney, and shall have furnished satisfactory evidence that all amounts due for labor, materials and other obligations under the Agreement have been paid by Contractor and that all actions for injuries or damage arising out of operations under the Contract Documents have been fully and finally settled or are fully covered by insurance protecting the City, its officers, agents and employees as well as Contractor.

ARTICLE 16. SEPARATE CONTRACTS

The City has the right to let other contracts in connection with the work, and the Contractor shall properly cooperate with any such contractors.

ARTICLE 17. LABOR AND SUPPLIERS

- a) All statutory, charter and ordinance provisions that are applicable to public contracts in the City of Portland and the State of Oregon shall be followed.
- b) Contractor shall make payment promptly, as due, to all persons supplying to him labor or material for the prosecution of the work. Contractor shall pay all contributions or amounts due from him to the State Industrial Accident Fund and shall pay to said Fund all amounts due from any subcontractor and remaining unpaid, incurred in the performance of the work. Contractor shall not permit any lien or claim to be filed or prosecuted against the City on account of any labor or material furnished. Contractor shall pay to the State Tax Commission all sums withheld from employees pursuant to Oregon Revised Statutes Chapters 315 or 316.

- c) If the Contractor shall fail, neglect or refuse to make prompt payment of any claim for labor or services furnished to the Contractor or a subcontractor by any person in connection with the project as such claim shall become due, the City may pay such claim to the person furnishing the labor or services and charge the amount of the payment against funds due or to become due the Contractor by reason of the contract. Payment by City of such a claim shall not relieve the Contractor or his surety from his or its obligation with respect to any unpaid claims.
- d) Contractor shall comply with all of the provisions of the laws of the State of Oregon, ordinances of the City of Portland, and governmental regulations relating to the employment of labor. Contractor agrees that no person shall be required or permitted to labor more than eight (8) hours in any one day, or forty (40) hours in any one week, except in cases of necessity, emergency, or where the public policy absolutely requires it, in which event, the person or persons so employed for excessive hours shall receive at least time and one-half for overtime in excess of eight (8) hours a day, and for work performed on Saturday and on legal holidays. This provision does not apply to the employment by any Contractor of foremen, watchmen, and timekeepers paid on monthly rates, and this provision shall not apply to labor performed in the manufacture or fabrication of any material ordered by the Contractor or manufactured or fabricated in any plant or place other than the place where the main contract is to be performed.
- e) Contractor shall promptly, as due, make payment to any person, copartner-ship, association or corporation, furnishing medical, surgical and hospital care, or other needed care and attention, incident to sickness or injury, to the employees of Contractor, of all sums which Contractor agrees to pay for such services and all moneys and sums which Contractor: (1) may or shall have deducted from the wages of his employees for such services pursuant to the terms of Oregon Revised Statutes Chapter 655, and any contract entered into pursuant thereto, or, (2) collected or deducted from the wages of his employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service.
- f) The minimum wage to be paid to any employee of a contractor or subcontractor engaged in the performance of the public work required in the contract, other than an employee paid on a monrthly or per diem basis and specifically exempted by Statute, shall be the prevailing rate of wages paid for the same class of work in the trade or industry in the Portland, Oregon area as required by ORS 279.350.
- g) Once before the first payment and each time the prevailing wage rate changes, and once before final payment is made of any sum under the Contract Documents for the work, the Contractor or his surety and every subcontractor or his surety performing work on the project covered by the payment, shall first file with the Auditor of the City of Portland a statement in writing under oath, in form prescribed by the State Labor Commissioner, certifying the hourly rate of vage paid each classification of workmen not exempt by statute, employed by Contractor upon such work, and further certifying that no workman employed by Contractor upon such work has been paid less than the minimum prevailing rate of wage.

ARTICLE 18. CITY'S REPRESENTATIVE

The Architect or other appropriate official shall be designated by the City as its representative during the construction period. He has authority to stop

the work if necessary to insure its proper execution. He shall certify to the City when payments under the contract are due and the amounts to be paid.

ARTICLE 19. CLEANING UP

The Contractor shall keep the premises free from accumulation of waste material and rubbish and at the completion of the work he shall remove from the premises all rubbish, implements and surplus materials and leave the building broom-clean.

DIVISION # 1

General Scope (101)

The contractor, in his bid, shall include all plant, labor, materials, equipment and tools and perform all operations required for the construction and completion of all elements of this project, indicated in the contract documents, to the point where each element is finished, complies with all applicable codes, and is capable of functioning in accord with its reasonably inferrable purpose unless specific individual exceptions to this requirement are listed.

The work covered by these documents shall be performed under a single contract.

Examination of Site and Conditions

(102)

Bidders are directed to visit the site and to inform themselves of all existing observable conditions. Failure to so inform himself will in no way relieve the successful bidder from the responsibility of furnishing any material and performing any work that may be required for completion of the project in accord with the drawings and specifications.

No statement made by an officer, agent, or employee of the City in relation to the physical conditions pertaining to the site of the work will be binding on the City.

Superintendent (103)

The Contractor shall employ a competent superintendent who shall be in attendance at the Project site at all times during the progress of the Work. The superintendent shall be satisfactory to the Architect, and shall not be changed except with the consent of the Architect, unless the superintendent proves unsatisfactory to the Contractor and ceases to be in his employ. The Superintendent shall represent the Contractor, and all communications given to the superintendent shall be as binding as if given directly to the Contractor.

Temporary Facilities

(104)

- l. Field Office: Provide a Temporary Office suitable for the requirements of Contractor and Subcontractors; with reasonable space for the Architect's inspector. Space within the Columbia Park building will be made available to the Contractor for this purpose; location as directed by the Supervising Architect.
- 2. Temporary Storage: Facilities will be made available to the Contractor in the Columbia Park building for storage of construction materials which might be damaged by weather.
- 3. Temporary Ladders, Runways, Hoists and Scaffolds: All equipment furnished and maintained as required for proper execution of the work; to meet all requirements of labor laws and state and local laws applicable thereto.

- 4. Telephone: Installed in Contractors Office and made accessible to all Subcontractors and Architect.
 - 5. Water: Will be supplied by the City from existing hose bibbs.
- 6. Toilet Facilities: Existing toilet facilities within the Columbia Park building will be made available to the Contractor and his workmen. It shall be the Contractor's responsibility to maintain these facilities and to turn them over to the owner at the completion of his work in good condition, equal to or better than the condition of facilities when assigned to him for his use.
- 7. Electrical Service: Existing electrical service will be made available to the Contractor and his personnel during construction. The Contractor shall furnish all necessary facilities to bring this electrical power to the construction area.

Laying out Work (105)

The Contractor shall, immediately upon entering the project site for the purpose of beginning work, locate all general reference points and take such action as is necessary to prevent their destruction; lay out his own work and be responsible for all lines, elevations and measurements of the building, and any other miscellaneous work to be executed under the contract. He must exercise proper precaution to verify figures shown on the drawings before laying out work, and will be held responsible for any error resulting from his failure to exercise such precaution.

Precedence (106)

Should there appear any discrepancy between the drawings and the specifications, variations between dimensions and scale of the drawings, doubt as to kind, quality, or detail of any materials, or any other matter, it shall be referred to the Architect immediately for his interpretation or correction. If such action is not taken by the Contractor and an error appears or a question arises at a later date, the Contractor, subcontractor and material men shall be held to the Architect's interpretation of the drawing's and specifications.

Shop Drawings and Samples

(107)

The Contractor shall review, stamp with his approval and submit with reasonable promptness and in orderly sequence, all Shop Drawings and Samples required by the Contract Documents or subsequently by the Architect as covered by Modifications. At the time of submission the Contractor shall inform the Architect in writing of any deviation in the Shop Drawings or Samples from the requirements of the Contract Documents.

Workmanship (108)

All work shall be done or supervised by skilled mechanics, fully experienced and qualified as journeymen in the work which they perform. All work shall be done according to the best current practices. Any work not acceptable to the supervising Architect shall be removed and re-done. All manufactured items shall be installed according to manufacturers instructions for installation.

Patching (109)

Any irregularity in the material or finish of ceilings, floors, walls, partitions, or other elements of the building, which appears to be a result of operations under this contract, shall be filled and finished to match similar adjoining surfaces.

Changes (110)

Changes in the work, which in the aggregate involve no more than five percent (5%) of the contract amount, may be authorized by the Commissioner of Public Affairs without further Council action.

Liquidated Damages (111)

Time shall be considered the essence of the contract. If the contractor fails to complete the project within the time specified in his proposal or any expension thereof by the City Council the actual damage to the City for the delay will be substantial but will be difficult or impractical to determine and therefore, in lieu thereof the contractor shall be charged and will pay to the City as fixed, agreed and liquidated damages for each and every calendar day of delay, the sum of \$100.00. Upon written application by the contractor to the Architect, extensions of time for completion will be allowed by the City Council only if the contractor establishes beyond a reasonable doubt that he has been subjected to unforseen and unavoidable delay through no fault of his own.

Use and Prior Occupancy (112)

The Owner reserves the fight to use and occupy the whole or any part of this improvement which has been completed sufficiently to permit use and occupancy and such use and occupancy shall not be construed as an acceptance of the work, or any part thereof, and any claims which the Owner may have against the Contractor shall not be deemed to have been waived by such use and occupancy.

Anti-Discrimination Statute (113)

Attention of the contractors located in Oregon and of any contractor performing work in Oregon is called to the provisions of Oregon Revised Statutes Chapter 659 prohibiting discrimination in employment.

Insurance (114)

The first sentence of Paragraph "b", Article 13 of the General Conditions shall apply to work under this contract. All of the remainder of Paragraph "b", Article 13 is hereby nullified.

Payments (115)

Upon written application of the contractor to the Architect, payments will be made as follows: On or about the 15th day of each month, the value of the labor and materials worked into the project up to the first day of that month, less the retainage and the aggregate of previous payments. Retainage shall be 10 percent (10%) of the amount earned until 5 percent (5%) of the contract amount shall have been retained after which the amount retained shall not be increased. Upon substantial completion of the entire work and acceptance thereof by the City Council a sum sufficient to increase the total payment to 95 percent (95%) of the contract amount. Thirty-five days thereafter, the balance of the contract amount provided the work of the project, including administrative requirements, is then fully performed.

Alternates (116)

The basic bid shall cover all of the work complete as indicated by the drawings and/or specifications for this project.

Alternate No. 1 - Each bidder, in his proposal shall state the amount to be deducted from the basic bid for the following:

Eliminate the shelter at West side of Pool area including the Infrared gas heating system, pipe railing, electrical wiring and light fixtures.

Provide footings and anchor bolts for columns as shown but provide cold joint panels 24" x 24" in concrete slab at these locations for future setting of steel columns.

DIVISION # 2

Scope (201)

This division includes the clearing of site and protection of Owners property, all excavating for footings and walls below grade, filling and back filling, disposal of excess materials, drainage and any incidentals pertaining to preparation of site for the construction as shown on the drawings and/or called for in the specification.

Work not Included (202)

- 1. The existing chain link fence and steel support posts will be removed and stored by Owner.
- 2. The existing Life Guard platforms and Diving Board and supports will be removed and stored by Owner.

Clearing of Site (203)

- 1. Remove existing concrete deck around pool. Care shall be used in breaking away concrete from pool edge coping as all coping damaged shall be replaced by this contractor.
- 2. Old concrete footings and walls at existing fence line surrounding pool shall be removed or cut down to a minimum of 8 inches below bottom of new concrete deck.
- 3. Remove existing wall to allow installation of outside doors to boiler room.
 - 4. All excess materials shall be removed from site.

Protection (204)

- l. Protect against damage to all trees, planting, walks and other work that is to remain on property.
- 2. Protect and maintain all conduits, pipes, drains and sewers that are to remain in place.

Excavating and Backfill (205)

- 1. Remove all sod and vegetation from area under concrete slabs.
- Top soil shall be stock piled on site for reuse in finish grading work.
- 3. Excavate to proper depth and sufficient to allow erection of forms, shoring and inspection of foundations.
- 4. Footings shall be excavated a minimum of 1'-0" into undisturbed bearing soil and not less than 2'-0" below finish grades.

- 5. Grade area around pool within wall enclosure to allow for a minimum of 6" of compacted fill, pitched to drainage gutter 1/4" to 1'-0".
- 6. Do all backfilling and grading necessary to bring all areas to levels as shown on plans. Remove all debris from excavations before backfilling.
- 7. Excavation and backfilling for mechanical and electrical work to be by others.

Shoring and Bracing

(206)

Provide, install and remove such shoring and bracing as required to retain existing earth and thereby hold area of excavation within workable limits.

Compacted Fill

(207)

Under all concrete slabs there shall be a minimum of 6 inches of clean 3/4" minus gravel, graded even and compacted as required to prevent settlement.

Site Drainage

(208)

The pitch of drainage gutters surrounding the pool area shall be the responsibility of this Contractor. Drainage lines shall be the responsibility of the Mechanical Contractor as specified under Div. #15.

DIVISION # 3

<u>Scope</u> (301)

Work under this division includes the furnishing of all materials, tools, equipment and labor for complete installation of all plain and reinforced concrete, steel reinforcement, forms, anchors, and miscell—aneous items in connection therewith, as shown on the drawings and/or called for in the specifications.

Reinforcing Steel (302)

- 1. Deformed hi-bond bars manufactured from new billet steel or intermediate grade steel complying with ASTM A-615-68, Grade 40.
 - 2. Welded wire mesh shall conform to ASTM A-185.
- 3. Steel shall be placed as shown on the drawings in accordance with C.R.S.I. Standards. All supports shall be incombustible material. Reinforcing shall be securely wired in place so as to stay in proper position during concrete placing and vibrating.
- 4. Lap all steel 24 diameters at splices and corners. Minimum lap 12".
 - 5. Lap mesh 6 inches minimum.

Forms (303)

Forms for the concrete shall be built of metal or moisture resistant plywood in large sheets in conformance with Section 7-2610 of the Portland Building Code, sufficiently tight to prevent leakage of the concrete, of ample strength to sustain the weight and pressure of the wet concrete, and any additional construction load which is likely to come upon them, and braced and tied together to maintain position and shape. Wall form ties shall pitch downward toward the outside. Wall forms shall have openings at the bottom for removal of dirt, sawdust and litter. Lumber once used in forms shall have all nails removed and the surfaces to be in contact with concrete thoroughly cleaned before being used again for forms.

Nailing Pieces, etc. (304)

Nailing blocks, bucks, raglet strips, flashings, anchors, boits, etc. shall be placed in the forms before the concrete is poured. The mechanics of each trade involved shall be given opportunity to place their ties, hangers, sleeves, boxes, anchors, piping, etc. in the forms before concrete is poured. Chases for pipes shall be formed as required.

Concrete (305)

1. All concrete shall be mixed and placed in accordance with ACI Standard "Building Code Requirements for Reinforced Concrete."

2. Materials: "Ready-Mix" Concrete 3000# @ 28 days equal to 1-2-4 5-1/2 sack mix.

1375# - 1400# sand

1175# - 1225# 3/4" to #4 Round River Rock

750# - 800# 1-1/2 to 3/4" Round River Rock

5 to 5-1/2 gals. water per sack cement

4" slump plus or minus 1"

- 3. Admixture: Use an air-entraining admixture to generate an air content of about 2% by volume.
- 4. Grout: Shall be highly fluid consisting of one part cement, three parts sand and two parts pea gravel (3/8" to #4).
 - 5. Placing:
 - a. Place so as to prevent separation of ingredients.
 - b. Place concrete as soon as possible after mixing.
 - c. Clean out and wet down forms before placing.
 - d. Place within 60 minutes after mixing.
 - 6. Carefully vibrate concrete around reinforcing to remove voids and air pockets and to ensure uniformity.
 - f. Do not disturb partially set concrete of previous pour layer.

Tests (306)

For each 50 cubic yards of poured concrete or fraction thereof there shall be 2 test cylinders made at 7 days and 2 test cylinders made at 28 days. The 28 day test shall show a strength of not less than 3,000 lbs. per square inch. Tests shall be made by a qualified laboratory and two copies of each test shall be sent to the owner. In the event that the tests do not show the required strength, the contractor shall determine the actual strength of the concrete which has been placed in the structure and shall replace that which does not meet the strength requirements.

Expansion Joints (307)

Expansion joints in the concrete deck surrounding the pool shall consist of 1/2" untreated cork up to 5/8" from the deck surface; and pourable Hornflex Joint Sealant up to the level of the deck after application of Vinyl Tape and Hornflex Primer all in accordance with the manufacturer's recommendations.

All other expansion joints shall be 1/2" premoulded expansion joint material of clean granulated cork premixed and securely bonded together with hot bituminous mixture. Kork-Pak by Grace Construction Materials Co. or approved equal.

Form Removal (308)

All forms shall be removed after the concrete has set sufficiently to carry the dead loads and any construction loads likely to occur. Form ties shall be removed.

<u>Slabs</u> (309)

- 1. Make certain the gravel fill is thoroughly compacted and brought to the proper elevation shown on the drawings.
- 2. Install 6" \times 6" 10/10 reinforcing mesh shown over the graded fill, properly lap at joints and edges 6 inches minimum.
- 3. Install screed rods and suitable screeds at proper level to ensure finish surfaces of slabs to come to grades shown.
- 4. Place concrete mix at maximum rate uniformly over area. Place each batch against edge of that previously placed to amoid stone pockets and segregation.
- 5. Spread the concrete uniformly using short handled; squareended shovels or come-alongs. Do not spread with rakes or by vibration.
- 6. Screed concrete level with magnesium type screed. Screeding shall begin immediately after concrete has been spread. As the straight edge screeds off the spread concrete, low spots shall be filled by placing additional concrete in them with a shovel, taking care so there is no segregation. Rescreed these areas. All screeding must be completed before any excess moisture or bleeding water appears on the surface. As screeding progresses fixed markers should be driven down flush with the subgrade, if expendable, or extracted one at a time to avoid walking back into the screeded concrete.
- 7. Darbying, or Bull-floating if preferred, should follow immediately after screeding before any excess moisture or bleeding water appears on the surface, to eliminate the ridges and fill in the voids left by the straight edge and in addition fill in all surface voids and only slightly embed the course aggregate.

After darbying, or bull-floating, wait until the concrete stiffens before proceeding further. When the concrete can sustain foot pressure with no more than 1/4 inch indentation, subsequent operations can be undertaken.

- 8. Hand float entire slab surface to remove slight imperfections, humps and voids to produce a plane surface. Magnesium or aluminum tools must be used with air-entrained concrete.
 - 9. Trowel immediately after floating to a smooth hard surface.
- 10. Finish the slab surrounding the pool by applying 30 pounds of "Durafax" per 100 square feet in two passes, and troweling lightly after each pass.
- ll. The surface shall be roughened slightly after final troweling by drawing a soft bristled push broom or stiff bristled broom, as directed by the Architect, once over the surface.
- 12. All exposed edges shall be finished with an edger having a 3/8" radius.
- 13. All slabs shall be finished to drain completely and true within a tolerance of 1/8" in 8 feet. Special care shall be exercised along the joint between the deck and pool edge.

Curing (310)

- 1. In dry weather, after removal of forms, all vertical concrete surfaces and horizontal related surfaces shall be thoroughly wet by sprinkling four times per day for seven days and twice per day thereafter until fourteen days have elapsed.
- 2. All slabs shall be kept constantly wet for seven days or covered after finishing with suitable Sisalkraft paper as approved by Architect.

From seven to fourteen days the slabs shall be thoroughly wet four times per day or if covered shall remain so until authorized by Architect to remove covering.

Inserts and Existing Equipment (311)

Existing pool equipment, such as diving boards, and lifeguard platforms, presently set on concrete foundations shall be removed by Owner.

Equipment such as ladders, etc., set on anchor bolts shall be reset with suitable new anchor bolts in the new concrete deck slab as specifically directed by the Architect.

Cleaning (312)

Just before the work is to be turned over to the Owner the slabs shall be thoroughly cleaned and left in good condition.

DIVISION # 4

<u>Scope</u> (401)

Work under this division includes furnishing all materials, tools, equipment and labor for complete installation of all concrete block walls, including the mortar, grout, reinforcing steel, and expansion joints, as shown on the drawings and/or called for in the specifications.

<u>Materials</u> (402)

1. Mortar: Shall be type 'S' and comply with ASTM C-270 64T. Proportions by volume shall be 1 part masonry cement to 2-1/4 parts mason's sand or 1 part (94 lbs.) Portland Cement with 1/2 part (20 lbs.) hydrated lime to 4-1/2 parts (4-1/2 cu. ft.) mason's sand.

Strength: Minimum compressive strength of 2" cubes at 28 days shall be 1800 p.s.i.

Aggregates: For mortar shall be of a quality at least equal to that set forth in U.B.C. Standard No. 24-22-64.

Required testing of production mortar when so requested by the Architect shall be conducted by a certified commercial laboratory in accordance with ASTM C-270 and paid for by the mason contractor.

- 2. Concrete Masonry Grout: Shall be 3000 p.s.i. ready mixed concrete as specified under Division #3 except aggregate shall be 3/8" minus.
- 3. Hollow Masonry Concrete Units: Shall be Grade P-1 ASTM C 90-66T. Linear shrinkage not to exceed .035, moisture content not to exceed 30% of total absorption. Mason contractor shall be responsible for moisture of block after delivery to jobsite until laid in wall.

Manufacturer shall submit certified laboratory test verifying moisture content of units, Special shapes shall be furnished as required. Concrete units for wall shall be Series 840-SP, Rock Face,

8" x 4" x 16" or approved equal.

- 4. Reinforcing: Reinforcing bars shall be as specified for concrete work Division #3. Horizontal joint reinforcing shall be "Dur-O-Wall", "Krimplok" or approved, galvanized steel welded truss reinforcement, 4" wide with 3/16" side rods and No. 9 gage cross rods.
- 5. Expansion Joint: 1/2" thick premoulded expansion joint material of clean granulated cork premixed and securely bonded together with hot bituminous material. Kork-Pak by Grace Construction Materials Co. or approved equal.

Workmanship (403)

1. Hydrated lime putty shall stand 48 hours before mixing with the sand. Cement shall not be added until just before the mortar is to be used, and no mortar shall be used which has stood more than 30 minutes after the cement has been added.

- 2. Perimeter wall of concrete masonry shall be laid in stack bond. Build straight and plumb with true horizontal and vertical joints with one inch off-set each 4'-0" module as shown. Joints shall be 3/8" thick with full mortar coverage on vertical and horizontal face shells. Inside face of wall shall be laid true and plumb with irregularities caused by block thickness variations reserved for the exterior face.
- 3. Masonry units, 8" x 4" x 16" rock faced, shall be built into the wall with rock face to outside. At the two exterior corners, the units shall be miter cut to preserve the stack bond appearance each way from the corners. The void thus formed shall be reinforced with vertical rebars as shown and horizontal reinforcing around corner at 12" o/c.
- 4. Mortar Joints shall be struck off flush with face of units. After mortar has taken an initial set, tool joints by compressing mortar tightly against adjacent masonry units on both sides of joint.

Spread mortar thick in bed joints, avoid deep furrowing. Do not throw mortar scrapings into joints. Do not shift position of unit by tapping or hammering after initial setting of unit.

Metal Door Frames, reinforcing, piping, conduits, etc. shall be built-in where required.

- 5. Dowell the starting course to concrete foundation wall as shown. After wall is up to a reasonable height install the vertical rebar where shown lapping foundation dowells. Install the specified horizontal reinforcing at 12" o/c vertically as shown using 6 inch wide reinforcing lap at corners.
- 6. Grout vertical cells containing vertical rebars full height with specified concrete grout, place carefully to avoid air or rock pockets. Spade grout to facilitate placing. Strike off at bottom of top bond beam.
- 7. Construct bond beam with reinforcing as shown filling with specified concrete grout and finishing with cement wash as shown.
- 8. Construct expansion joints where shown but not to exceed 50 ft. apart.
- 9. Scaffolding: This contractor shall furnish, install, maintain and remove all scaffolding required by his work.
- 10. Protection: During construction the tops of all walls shall be covered at night and during bad weather or delays. Masonry shall be protected against freezing and shall not be laid in freezing weather.
- 11. Cleaning: Mortar shall be cleaned off the face of the work as the walls are laid; exposed surfaces shall be thoroughly washed and rinsed so as to remove all dirt, stains and efflorescence. At conclusion of the masonry work, the contractor shall remove all equipment used in the work, clean up all his debris and surplus material and remove same from the premises.
- 12. Final: All work under this section shall be free from all defects, and all work shall be performed in a first-class workmanship manner. All work not true, plumb or not meeting the specifications shall be replaced.

DIVISION # 5

Scope	(501)
To provide all structural steel, railings, miscellaneous iron, gratings, and other metal specified or indicated on drawings, necessary to complete the construction of the building.	
Shop Drawings	(502)
Shop drawings are required for all structural steel and all other fabricated items. This contractor shall take all field measurements and shop drawings shall show such measurements.	
Welding	(503)
The welds shall be made by operators who are qualified by test as per "Standard Qualification Procedure" of the American Welding Society. Fillet welds shall be as per AISC Specifications, and all welds shall be ground smooth, and thoroughly cleaned.	
Field Welds	(504)
All field welds shall be performed with the same care and quality as the shop weldings except as may be pertinent to the field conditions.	
Painting	(505)
All work, except galvanized or aluminum shall be given an approved shop coat of red lead or zinc chromate primer before being delivered to the job site. All field welds shall be cleaned and given a coat of paint as per shop coat.	
Templates and Bolts	(506)
This contractor shall furnish all necessary bolts and templates needed for columns, hangers, etc. and as required by the General Contractor or the installer of metal work.	
Metal Imbedded in Concrete	(507)
All metal which is to be imbedded in concrete shall be clean and free from all foreign material such as oil, slag or paint.	
Structural Steel	(508)
All structural steel material, fabrication, erection and connection shall be in accordance with AISC specification for design, fabrication and erection of structural steel such as columns and beams, etc.	

GuttersCovers & Frames

(509)

This contractor shall furnish all gutter covers as shown on the drawings. All edges of covers shall be ground smooth. The covers and frames shall be galvanized after fabrication.

Expansion Shields

(510)

The expansion shields shall be double type as manufactured by Keystone. They shall be case alloy, rust-proof and non electrolytic.

Pipe Railing

(511)

Pipe railings are to be removable, standard weight 1-1/2" O.D. steel pipe with welded joints ground smooth and hot-dipped galvanized after fabrication. Secure to concrete deck thru flanged base with minimum of 3 (1/2" rd.) S.S. bolts into threaded anchor sleeves set flush with concrete surface. Finish as called for in Division No. 9.

Expanded Metal

(512)

Provide 1-1/2" - 16-18 expanded metal panels to be set in relite partition with wood stops. Prime and finish as called for in Division #9.

Areaway Grating

(513)

Provide hot-dipped galvanized grating in two sections at area way access to Boiler Room; each section, approximately 36" x 48", to be of 1" x 1/8" bars the 36" direction at 1-3/16" o/c with cross bars at 4" o/c, design load 266#/ sq. ft. Irving Grating Co. or approved; Saddle clips as required for securing from underside. Finish as called for in Division # 9.

CARPENTRY

DIVISION # 6

Scope (601)

The carpentry work shall include all labor, materials and equipment required to complete all rough and finish carpentry as shown on the drawings and/or called for in the specifications. It shall include the building and removal of forms for concrete work, rough hardware, framing and sheathing, use of pre-assembled components and the wood trim, mill-work, siding and soffit.

Grades and Dimensions

(602)

The Contractor shall carefully check all grades, lines and dimensions of all footings, walls, slabs and roof and shall report any discrepancies to the Architect or his representative. See Division #1 (105 & 106).

Forms for Concrete Work

(603)

See Division #3 (303) for description of form material. Care shall be used to see that all form work is true, level, and plumb, constructed according to drawings and figured dimensions.

Materials (604)

- l. Framing lumber shall be Douglas Fir Construction Grade, WWPA
 Para. 40.11 (1500 f) 7/1/68 S 4 S, for Light Framing.
- 2. Sheathing shall be Douglas Fir plywood, C-C Ext.-DFPA, (4), 3/4" thick, unsanded.
- 3. Soffit material shall be rough sawn 303 siding in 4' \times 10' sheets with B plugged or better face and C back and inner plys, DFPA Group 4, Exterior; prestained with Olympic stain of color as selected by the Architect. Attach to 2 \times 4 furring strips with 8d galvanized nails 6" o/c among edges and 12" o/c in interior of panels.
- 4. Plywood panels for partition in existing Columbia Park Building to be A-A exterior DFPA, (4) with C grade interior plys sanded to receive paint to be set in wood stops.
- 5. Wood trim and moldings to be "B" or better V.G. Douglas Fir or Hemlock. All finish and millwork shall be kiln dried not to exceed 12% moisture content.
- 6. Roof framing to be Trus-Joist, I series, 24" depth and spaced 4'-0" o/c. Bridging and blocking as required, furnished by manufacturer.
- 7. Asbestos cement board shall be 3/8" thick smooth one side of natural color composed of asbestos fiber and portland cement to meet Federal specification SS-B-755 a Type W and ASTM C 220-67, Type U. Fasten with galvanized nails and adhesive in strict accordance with manufacturers recommendation.
- 8. Rough Hardware includes all spikes, bolts, washers and nuts, screws, framing anchors and nails necessary to complete the work of this Division.

Relocation and Remodeling

The Contractor shall do all relocation or remodeling of present facilities necessary to insure continued functioning of all parts of the present plant or to alleviate any conflict with the new facilities.

This work includes the remodeling or relocation of valve boxes and shut-offs at pool side and the placement of all materials, devices and fittings to insure their continued function.

Cooperation

(606)

This Contractor shall cooperate with other trades, such as electrical and mechanical work, in the installation of their equipment, devices and fixtures. All special cutting of wood framing required in this connection shall be done by the carpenters, and any headers required in this connection shall be placed by this Contractor.

Final

(607)

All construction shall be of first-class workmanship and shall be true, level and plumb. All faulty work or materials shall be corrected at the Contractors expense with no expense to the City of Portland. All work shall meet the requirements of the City of Portland Building Code and Fire Code, latest edition.

(605)

MOISTURE PROTECTION

DIVISION # 7

Scope (701)

(702)

Work under this division includes the furnishing of all materials, tools, equipment and labor for complete installation of foofing and accessories, calking and sealants, ventilators and vent strips, sheet metal gutters, downspouts and flashing, as shown on the drawings and/or called for in the specifications.

Fire Proofed Shingles

- 1. Shingles to be Koppers Class "B" red cedar; No. 1, 18" Perfections, 175 pounds/ square; delivered to job site with one U. L. Class "B" Label attached to each bundle of shingles.
- 2. Shingles to be installed as per instruction sheet of manufacturer for class "B" assembly over underlayment of plastic-coated steel foil as furnished by Koppers.
 - 3. Weather exposure not to exceed 5-1/2" for 7/12 pitch.
 - 4. Roof sheathing to be minimum of 3/4" as specified under Div. #6.

Built-up Roofing (703)

Flat roof areas shall be covered with a built-up roof similar to Johns-Mansville No. 80 Flexstone Asbestos Mineral Surface, Specif. No. 425-FS, bondable up to 20 years. Flashing on all built-up areas shall be Johns-Mansville Asbestile system. At all angles in roofing materials a reinforcing layer of fiberglass shall be placed. The roofing and flashing shall be applied in strict accordance with manufacturer's specifications by a roofing contractor approved by the manufacturer.

Roof Ventilators (704)

Shall be low profile aluminum, storm proof with one piece base attached to collar with leak-proof construction; opening dovered with 8 mesh screen for bird and insect seal. "Leigh" No. 408 with 44 sq. in. net free area or approved; 8" round hold in roof sheathing.

Strip Ventilators (705)

Soffits to have aluminum strip ventilators installed flush and continuous at locations as shown on drawings in lengths of 8'-0" - "Trimvent" model No. 640 as supplied by Pacific Metal Co. or approved.

Calking and Sealants (706)

Joints between different materials and around exterior metal door frames shall be calked tight. The space provided for calking shall be thoroughly cleaned and a polyethylene foam sealant backer rod shall be compressed in the joint to the proper depth so that the sealant thickness can be applied as recommended by the sealant manufacturer. Dow "Ethafoam" SB brand sealant backer rod and Dow Corning 780 silicone rubber, non-acid sealant or G.E. Silicone Construction Sealant or approved.

Sheet Metal (707)

l. All flashings, coping, collars, sleeves, etc. necessary to make the roof watertight, including furnishing of flashing materials necessary to be installed by other trades, and supervision of installation of same, 26 gauge galvanized steel minimum.

- 2. Gutters shall be formed as detailed on the drawings of 24 gauge galvanized steel, fastened in approved manner with brass screws and hook strips of galvanized steel nailed to roof decking. Gutters shall be straight and well formed with proper pitch to downspouts.
- 3. Downspouts shall be stock 2-1/4" x 3-1/4" galvanized steel at locations as shown. Leaders shall be shaped to fit into C. I. pipe, installed by Plumbing Contractor. Downspout strainers shall be brass wire.

Final (708)

The applicator, at completion of the job shall inspect and correct all damaged portions of his work. He shall maintain in a watertight condition for a period of one year from completion all portions of his work and shall promptly repair or replace any defects during this period upon written notification of the owner. All work shall meet the requirements of the City of Portland Building Code and Fire Code, latest edition.

DCORS, WINDOWS, & GLASS

DIVISION # 8

Scope (801)

Work under this Division includes the furnishing of all materials, tools, equipment and labor for the complete installation of Hollow Metal Doors and Frames, Finish Hardware and all related work as shown on the drawings and/or called for in the specifications.

Work not Included (802)

There are no windows included in this work.

Glass work is limited to the glazing of Door No. 3 as shown on the drawings.

Shop Drawings (803)

Before fabrication of hollow metal work, submit 3 copies of shop drawings for the Architect's approval.

Hollow Metal Doors (804)

- 1. Hollow Metal Doors shall be constructed of prime quality, cold rolled, stretcher leveled 16 gauge steel with flush pan type construction (edge seams tack welded and filled, leaving no visible joints).
 - a. Doors No. 1, 2, and 5 shall be $3^{\dagger}-8^{\prime\prime} \times 7^{\dagger}-0^{\prime\prime} \times 1-3/4^{\prime\prime}$ with full flush panel.
 - b. Door No. 3 shall be 3'-0" x 7'-0" x 1-3/4" with single top light glazed with 1/4" smooth rough Misco welded wire patterned glass.
 - c. Pair of doors (No. 4) shall be 4'-0" x 8'-0" x 1-3/4" with full fixed slat louver panels of 18 gauge steel, with 1/2" sq. wire screen welded to inside face.
- 2. Prepare doors to receive locking device as called for under door hardware (this Div.) Door No. 4 will not receive locks.
- 3. Prepare doors to receive 1-1/2 pair standard weight template hinges as called for under door hardware (this Div.). Doors No. 4 will require 2 pair each door.
- 4. Doors shall be furnished bonderized and prime coated at factory, ready to receive finish coats, after installation, as called for in Division # 9.

Metal Door Frames (805)

- 1. Frames are to be prime quality, cold rolled 16 gauge steel, bonderized and prime coated at factory with high quality rust inhibitive baked-on primer. (Painting in Div. #9).
- 2. All frames shall be supplied with suitable anchors for type of wall construction in which they are to be installed.
 - a. Doors No. 1, 2 and 5 to be set in 8" concrete block walls.
 - b. Door No. 3 to be set in opening cut in wood studded wall of existing building.
 - c. Doors No. 4 (pair) to be set in opening cut in concrete wall of Boiler Room at areaway access.
- 3. All frames for single doors to have three rubber bumpers, factory installed, in each strike jamb. Double doors to have two rubber bumpers in head.
- 4. Jamb to have 3/16" steel hinge and strike reinforcing and to be mortised for standard weight template hinges and strike as salled for under Finish Hardware (this Div.).
- 5. Mounting holes for surface applied hardware are to be drilled and tapped in the field.
 - 6. All frames to have standard jamb depth of 6-3/4".
- 7. Field coat the inside of frame with asphalt emulsion and fill with mortar at time of setting. Provide plaster guards.
- 8. Frames shall be delivered to the job completely set up and arc welded. Protect frames from racking during transit with proper bracing.

Manufacturer (806)

Hollow Metal Doors and Frames shall be as manufactured by Reuter and Son, Grand Metal, Steel Craft or approved.

Protection (807)

All doors and frames shall be protected against damage to surfaces during transit, erection and completion of adjacent builder's work.

Finish Hardware (808)

1. Includes all finish hardware required for the project, each item complete with screws or other attachment and all delivered to the job site as the Contractor may designate.

- 2. The catalog numbers used in the following specifications give the requir ments as to design, quality and finish. They designate Lawrence, LCN, P & F Corbin, H. B. Ives, Sargent & Greenleaf, Von Duprin, and Best Universal. Other makes may be furnished if first approved in writing by the Architect.
- 3. All locks shall be keyed alike in the building with "Best Universal" locks master keyed to present Park Bureau series. Contractor to furnish and install construction cores to be exchanged by Park Bureau for coded cores. Coded cores shall be shipped directly to the Owner by the manufacturer.
- 4. The supplier shall take off quantities and prepare a completely itemized list of all the required hardware, each item properly identified. The hardware shall be packaged and labeled to conform to the list. A copy of the list shall be given to the Architect.
- 5. Furnish the Hollow Metal Door manufacturer all necessary templates for butts, locks, closers and panic devices to facilitate manufacturer's fabrication.

6. Schedule:

Doors No. 1 & 2
Butts - 1-1/2 pr., BB 4101A, 4-1/2 x 4-1/2 NRP. US 26 D
Panic Device - 88 NL, Alum.
Cylinder - 1 E 62, US 26 D
Door Closer - 4115, Alum.

Door No. 3

Butts - 1-1/2 pr., BB 4101, 4-1/2 x 4-1/2, US 26 D

Lock Set - 7 K 6 A 4 A, US 28

Door Closer - 4033, Alum.

Wall Stop - 407, US 28

Threshold - 5" saddle, Alum.

Door No. 4 (Pair)
Butts - 4 pr., BB 4101, 4-1/2 x 4-1/2, US 26 D
Latch Set - 7 K ON 4 A, US 28
Flush Bolts (2) - 2846 - 12", US 28

Door No. 5

Butts - 1-1/2 pr., BB 4101 A, 4-1/2 x 4-1/2 NRP, US 26 D

Panic Device - 88 EO, Alum.

Door Closer - 4115, Alum.

Alarm - SG 1031, sprayed

Cylinder - 1 E 64, US 26 D

FINISHES

DIVISION # 9

<u>Scope</u> (901)

Work under this Division includes the furnishing of all materials, tools, equipment and labor to complete the finish applied to walls, floors, structural members and roof, all exposed metal work on exterior and interior, hollow metal doors and jambs, exterior and interior woodwork and related items as shown on the drawings and/or called for in the specifications.

Exceptions (902)

Masonry wall enclosing pool is not included in this work. It will be left in its natural state with finish as called for under Masonry, Division $\#4_{\circ}$

Painting (903)

l. Materials:

- a. All paints, enamels, varnishes, stains, etc. shall be of the brand and quality specified and shall be delivered at the site in clean, unopened, original containers and stored where designated.
- b. Miscellaneous basic materials such as raw and boiled linseed oils, shellac, white lead, putty, solvents, shall be pure and of the highest quality, and shall comply with the latest ASTM Standards.
- c. The following manufacturers of paint or stain products are acceptable: Pratt and Lambert, Millers, Sherwin Williams, W. P. Fuller Paint Co., General Paint Co., Pittsburgh Paint Co. and Olympic Stain.

2. Colors and Finishes:

- a. Secure color schedule from the Architect before under coating. Samples of colors selected and finishes specified shall be submitted to the Architect for his approval before proceeding with the work.
- b. Unless specified otherwise, all undercoats shall be tinted slightly to approximate the finish color.

3. Surface Preparation:

- a. All surfaces to receive paint finish shall be cleaned free of all dust, dirt, oil, grease and other foreign matter prior to the application of the prime coat.
- b. Repair all voids, cracks, dents, etc., with suitable patching material and finish flush with adjacent surface.
- c. Shop coats on metal, which are damaged, parts unpainted or otherwise unprotected after installation, shall be cleaned and spot primed with #585 Rustmaster Tank and Structural primer for ferrous metals, #471 Rustmaster Galvanized Iron Primer for galvanized metal.
- d. Finish hardware and contact plates shall be fitted and removed prior to painting.

4. Workmanship:

- a. All work shall be executed by skilled craftsmen, experienced in their trade and shall be of the highest standards and methods.
- b. Paints shall be mixed and applied in strict accordance with manufacturer's printed directions for his product.
- c. All materials shall be applied smoothly with proper film thickness, without runs, sags, skips or any other defects. Enamels and varnishes shall be lightly sanded between coats, dusted and wiped clean before recoating.
- d. All work shall be done under favorable weather conditions, suitable for the production of first-class work.
- e. No exterior or interior painting shall be done until surfaces are thoroughly dry and cured.

5. Protection:

The Painting Contractor shall protect all surfaces and objects inside and outside, grounds, lawns, shrubbery and work of other crafts against damage. He shall be responsible for the orderly storage of materials, removal of all combustible rags, empty containers, etc., at the end of each day, taking every precaution to prevent fire.

6. Inspection:

All work shall be subject to approval by the Architect and any work not complying with these specifications shall be properly corrected.

7. Cleaning and Removal:

At works completion this contractor shall remove from the premises all surplus materials, containers and debris created by him. He shall remove all splatterings and leave his work in a clean and finished condition.

Painting Schedule (904)

- b. Two coats pure prepared exterior first quality outside house paint, such as Millers semi-gloss No. 200, or approved.
- c. Allow 24 hours for drying touch—up primer coat and 8 hours between finish coats.
 - 2. Galvanized Metal gutters, downspouts, flashings & ventilators:
 - a. Remove dirt, oil and grease by washing with mineral spirits.
 - b. When clean apply #471 Rustmaster Galvanized Iron primer.
- c. Two coats pure prepared exterior first quality outside house paint, such as Millers flat No. 202.
- d. Allow 48 hrs. for drying of primer and 8 hrs. between finish coats.

- 3. Galvanized pipe railings and gratings:
 - a. When clean apply #471 Rustmaster galvanized iron primer.
- b. Two coats pure prepared exterior first quality outside house paint, such as Millers Semi-gloss No. 200.
 - c. Allow 48 hrs. drying of primer and 8 hrs. between finish coats.
- d. Gutter covers and frames, hot dipped galvanized after fabrication shall be left unpainted.
 - 4. Exterior wood facia and trim:
- a. First coat, Millers Oil Primer No. 240. Allow 24 hours drying time putty all defects.
- b. Second coat, equal parts No. 240 primer and Millers pure No. 200. Allow 8 hours drying time.
 - c. Third coat, Millers semi-gloss No. 200, no thinning.
 - 5. Exterior Wood Soffits:
- a. The rough sawn plywood panels for wood soffits shall be delivered to the job site pre-stained. This contractor shall stain all field cuts and edges exposed during normal application of these panels, using Olympic Stain of color as selected, to match.
- b. Soffit panels are to be pre-stained on the Olympic Stainer Model 5004 using full strength Olympic Stain in color as selected and as manufactured by Olympic Stained Products Co., 1118 N. W. Leary Way, Seattle, Wash. (Lakeside Lumber Wholesale Div., local distributor.)
 - 6. Wood Interior Partition:
 - a. First coat. Millers No. S-81 undercoat; allow 8 hrs. to dry.
- b. Second coat, equal parts No. S-81 undercoat and No. S-343 satin enamel; allow 4 hrs. to dry.
- c. Third coat, Millers No. S-343 satin enamel for Le-Sheen finish.
- d. Expanded metal panels at top of partition to receive same as above.
 - 7. Exterior Wood Bench Tops:
 - a. First coat, Pratt & Lambert Penetrating Rustic Stain (a)
- b. Three coats Pratt & Lambert Vitralite UVA Spar Varnish or Pratt and Lambert Gloss Varmor
 - c. Allow 12 hours drying between coats.

SPECIALTIES

DIVISION # 10

<u>Scope</u> (1001)

Work under this division includes the furnishing of all materials, tools, equipment and labor for the complete installation of specialty items not covered under other Divisions of this specification but shown on drawings.

Benches (1002)

There are a number of existing spectator benches located around the pool. This Contractor shall remove these benches from their present locations and place them in storage in the Columbia Park Building. During the construction of the pool side slab, this Contractor shall take inventory of benches in storage against the location and number of benches required in the drawings and furnish new benches to match to fill out the requirements. He shall recondition and refinish all existing benches that are to be re-used, and finish new benches to match these. Benches are located on each side of Lamp Poles around pool, on the inside of concrete block wall enclosure. Bench supports shall be anchored to concrete slab in an approved manner. Bench seats shall be "B" and better Kiln Dried Douglas Fir or Hemlock hand selected for appearance and free of pitch pockets.

Light Poles (1003)

Light Poles (standards) shall be furnished and installed by the Electrical Contractor under Division No. 16. This includes base flange and anchor bolts, and shall be closely coordinated with the work of the Contractor.

DIVISION #15

General Conditions - Plumbing

(1501)

- l. The General Conditions and the Supplementary General Conditions of the specifications shall be referred to by the Contractor under this division as they will constitute a part of the contract for the work under this division.
- 2. Each bidder shall visit the site and familiarize himself with all conditions to be met during construction.
- 3. This specification and the accompanying drawings must be considered together and any work called for in the one or indicated in the other, together with such work as can reasonably be considered a part of the piping and necessary to complete same shall be included.
- 4. Where work of Piping Contractor connects to that of another Contractor or to piping or equipment in place, the Piping Contractor shall take such measurements in the field as may be necessary to make this work come true or line up.
- 5. Furthermore, where work covered by this specification connects to equipment furnished by others, this Contractor shall check in the field and will be held responsible for the proper connection to such equipment.
- 6. The word "provide" shall mean the furnishing, installing and connecting up complete for all the equipment or material as mentioned.
- 7. The wor'd "Architect" shall mean the Architect employed on the work or his authorized representative.

Permits, Ordinances and Inspection

(1502)

- l. The Contractor shall promptly obtain all permits and arrange for all necessary inspection and furnish a certificate or certificates of inspection and approval from all the authorities having jurisdiction. Should any changes be necessary in the drawings or specifications to secure such approval, this Contractor shall include in his bid all costs for such changes to comply with these departments without extra cost to the Owner.
- 2. All work under this division shall be installed in complete accordance with State Laws and Local Ordinances.
- 3. All work and material covered by these specifications shall be subject to inspection at any time by the Architect. All work covered up before inspection and approval of the Architect, shall, at his option, be uncovered at the Contractor's expense.

Scope of Work

(1503)

l. Work under this section includes the remodeling of the under slab drain piping, the removal of existing deck drains as indicated and connection of drains from new drain trenches around the existing pool. It also includes the re-location of the two electric hot water heaters in the Mechanical room which are in way of new boiler installation and installation of floor drain and drywell at areaway.

2. The Mechanical Contractor to furnish all labor and materials to complete the project. He shall also make the required connections to all equipment furnished by others that requires waste, vent and water service.

Soil and Waste Lines

(1504)

- l. All soil and waste lines running under the deck surrounding the pool to be standard weight cast iron of first quality smooth inside and out, of standard dimensions. Piping shall be free from cracks or sand holes and coated with coal tar pitch. Fittings shall be of same quality as the pipe and specifically made for drainage purposes.
- 2. Horizontal soil, and waste piping shall be given a grade in direction of flow of 1/4" per foot, but in no case less than 1/8" per foot. All changes in pipe size on soil and waste shall be made with reducing fittings.
- 3. Contractor may at his option use Ty-Seal ring joints in waste piping.
 - Install cleanouts as required by prevailing codes.
- 5. Install 2" floor drain equal to Zurn #415 with Type B strainer, nickel bronze finish connect to drywell.

Gas Piping (1505)

- l. Gas piping running inside building to be standard weight black iron pipe with screwed and banded malleable iron fittings.
- 2. Gas piping running underground to be wrapped with two layers of scotch wrap around both pipe and fittings.
- 3. Gas piping inside building shall run above ceiling in attic void space. Gas piping to be hung and/or supported at ten foot intervals and each change of direction, using split ring type hangers and threaded rods for adjustment.

<u>Tests</u> (1506)

- l. All soil and waste lines running under slabs shall be tested hydrostatically to 10 PSIG block off ends of piping, this test to include new piping and existing waste lines new piping connects into. Check carefully for any leaks, which shall be made tight and the test repeated.
 - 2. Test gas piping to 100 PSIG, hold for 24 hours.

Cleaning and Closing of Piping

(1507)

The interior of all piping shall be thoroughly cleaned before installation as lines are complete, all openings shall be capped or plugged. Lines shall be kept closed until connection of fixtures are made. The Contractor shall remove any stoppage in piping or fixtures at his own expense.

Materials and Equipment

(1508)

- 1. All material and equipment shall be new "American Made", where several types or qualities of materials are listed the Contractor has the option to use any or all. Insofar as is possible use one type or quality throughout.
- 2. If the Contractor desires to use other materials than those specifically mentioned by name, he shall obtain the written approval from the Architect before bidding. See Supplementary General Conditions.

Excavation and Backfilling

(1509)

Provide all excavation and backfilling necessary for the installation of equipment covered by this specification, included hereinafter. Backfilling under floor slabs shall be compacted gravel.

Removal of Rubbish

(1510)

All rubbish and debris resulting from work under this division shall be removed from the building and premises as directed by the Architect.

Record Drawings

(1511)

Contractor shall locate piping in accordance with plans. If any deviation is necessary, the new location shall be marked on a set of plans used for this purpose only, and these plans shall be delivered to the Architect. Contractor shall pay for printing of any plan sheets required from the Architect.

Guarantee

(1512)

Unless otherwise specified, all materials furnished and installed under this section shall be "American Made" and free from defects and shall be guaranteed for a period of one year from date of acceptance of the work. Should any trouble develop during this period due to faulty workmanship or defective material, this Contractor shall furnish all material and labor necessary to correct the condition to the satisfaction of the Architect and without cost to the Owner.

General Conditions - Heating

(1513)

- 1. The standard form of the General Conditions and the Supplementary General Conditions of the Contract are part of this specification and the Contractor is to consult them for instructions pertaining to the work under this heading.
- 2. No claim for additional compensation will be entertained on behalf or paid to this Contractor on account of his failure to be informed of the above conditions or requirements.
- 3. These specifications and the accompanying drawings must be considered together and any work called for in the one or indicated in the other, together with such work as can be reasonably considered a part of the piping system and necessary to complete same, shall be included.

- 4. Each bidder shall visit the site and familiarize himself with all conditions to be met during construction.
- 5. The layout of the equipment, piping, etc., under this division is generally diagramatic unless specifically dimensioned. This Contractor shall check with the other trades to see that there is no interference between his work and that of others.
- 6. Excavate for all work as required and backfill according to specifications, Division #2.

Scope of Work (1514)

- 1. Work under this section includes the addition of a gas fired instantaneous hot water heater to be located in present basement Mechanical Room.
- 2. Existing circulating pool piping between pool and present filters to be revamped so that pool water flows through the new heater to heat the pool.
- 3. It also includes the installation of gas fired projection type heaters to heat the Boys and Girls locker rooms and the Lobby.
- 4. It also includes the installation of gas fired infra-red heaters located under new shelter adjacent to the shallow pool.

Piping (1515)

- l. Hot water heating system piping shall be standard weight black iron either butt or lapweld.
- 2. Valves not otherwise specified shall be bronge body or cast iron body with bronze trim rated at 150 lbs. working pressure with seats and discs to suit service intended. Valves over 2-1/2" shall be flanged. Valves under 2-1/2" may be screwed or flanged.
- 3. Ground joint unions for pipe 2-1/2" and under and flat face flanges for pipe over 2-1/2" shall be installed as indicated or as required for takedown purposes.
- 4. Pipe fittings shall be standard weight welding fittings, welding shall conform to City requirements.

Tests (1516)

- l. Before any portion of water piping is backfilled, it shall be tested as follows: Water supply and return mains shall be tested to 100 p.s.i. The Hydrostatic Pressure shall be maintained for a period of not less than one hour with not more than 2 p.s.i. drop. Tests shall be witnessed by the Architect or his representative.
 - 2. Contractor shall thoroughly flush all piping systems.

Insulation (1517)

Boiler room heating supply and return piping shall be covered with standard thickness Calcium Silicate preformed pipe insulation with cloth cover glued and banded in place.

Permits, Ordinances and Regulations

(1518)

- 1. The Contractor shall promptly obtain all permits and arrange for all necessary inspection and furnish a certificate or certificates of inspection and approval from the public authorities having jurisdiction. Should any changes be necessary in the drawings of specifications, to secure such approval, this Contractor shall include in his bid all costs for such changes to comply with these departments, without extra cost to the Owner.
- 2. The construction and installation of all apparatus and material shall be in accordance with the requirements of all legally constituted inspection agancies having jurisdiction. Attention is called to the Orggon Safety Code regarding fired and unfired pressure vessels.

Substitutes and Approvals

(1519)

Where an article is described by manufacturer's name, this particular piece of equipment is desired. An article of other manufacture or of similar quality, construction, size and capacity, may be substituted if approval is obtained in writing from the Architect. Submit request for approval to Architect six days prior to bid opening. Where several manufacturers names are listed, that mentioned first is preferred but others may be substituted without formal approval.

Furnished by Others

(1520)

- 1. Others will provide all concrete foundations if required, ready for this Contractor to install his equipment thereon. This Contractor shall furnish the General Contractor complete information, such as size and location concerning all bases, curbing required for the complete installation.
- 2. All electric wiring from power center to motor starters and to motors will be furnished and installed by the Electrical Contractor expept control wiring for automatic controls of heating system. Motor starters will be furnished by this Contractor and handed over to the Electrical Contractor for installation.
- 3. Painting of grilles, registers, difussers and other wall or surface mounted equipment will be done by others.

Operating Instructions

(1521)

At the termination of this Contract's work, and at the time the building is officially turned over to the Owner, this Contractor shall furnish to the Owner a complete portfolio containing shop drawings, detailed operating instruction etc., on all equipment furnished under this contract. As required for special equipment this Contractor shall furnish a competent instructor to advise the operating personnel as to the proper operation, servicing, etc., of said equipment.

Gas Fired Water Heater

(1522)

- l. Gas fired packaged instantaneous water heater "Ajax" series "X" size model WGX-4750 with AGA rated input of not less than 4,750,000 Btuh and output of not less than 3,800.000 Btuh when fired on natural gas. Unit to be completely packaged and wired at the factory.
- 2. Unit to be furnished with 13 gauge copper tubes with metalized headers and magnesium anodes for use on heating swimming pool water direct.
- 3. Electric controls and trim shall consist of 120v 60 cy single phase control panel mounted on right hand side. High limit, low water cutoff, electric gas valve, safety pilot burner, gas pressure regulator, manual gas shut off valves, main and pilot, pressure relief valve set at 45 PSIG, pressure temperature gauge.
- 4. Contractor shall furnish and install in water return to boiler a submerged aquastat set at 90° F to send control signal to burner controls.

Gas Fired Infra Red Heaters

(1523)

- l. Furnish and install the suspended gas fired infra-red heaters under shelter roof adjacent to shallow pool. These units are to be, CO-RAY-VAC self vented infra-red gas fired units. Furnish and install the eight firing devices with combustion chambers, shields, and interconnecting radiant pipe with shields. Units are to be installed according to manufacturers recommendations.
- 2. Units to be mounted and suspended from overhead ceiling of shelter the clearance above radiant heating pipes shall be as recommended by the manufacturer. System shall be suspended from adequate hanger system.
- 3. Furnish and install with this system the separate vacuum pump required as well as discharge pipe. Provide adequate support for vacuum pump, with discharge directed away from occupants.
 - 4. Make connections to natural gas lines as required.
- 5. These units are to be manually controlled from switch with pilot light located in present Basket Room. This switch will energize the separate circuit provided by the Electrical division.

Gas Fired Unit Heaters

(1524)

- l. Furnish and install the gas fired projection type unit heaters in the Boys and Girls locker rooms and also the existing Lobby.
- 2. Each unit, aluminized steel burners, heat exchangers aluminized steel, built-in draft diverter, adjustable air deflector blades and rust protected casings, additional vertical deflector blades.
- 3. Controls to consist of thermostat, low voltage relay, and summer winter fan switch.
 - 4. Unit Number 1, Modine Model Number P-50 50,000 Btuh input Unit Number 2, Modine Model Number P-135 135,000 Btuh input Unit Number 3, Modine Model Number P-175 175,000 Btuh input

Gas Vents (1525)

Gas vents from gas fired boiler and gas fired unit heaters to be Metalbestos of the required sizes and installed according to manufacturers recommendations. Furnish and install the proper equipment to go through roof and adequate flashing to make each penetration water tight, Boiler gas vent to discharge into present brick chimney, Contractor to cut into present chimney and install an adequate thimble grouted into brick work.

Exhaust Fans (1526)

- 1. Furnish and install for each Boys and Girls shower rooms a motor operated exhaust fan of weatherproof construction to be mounted on base provided by General Contractor.
- 2. Furnish and install an aluminum exhaust grille in ceiling of each shower room Carnes model 6795V5 of size indicated on the plan.
- 3. Furnish and install aluminum connecting exhaust duct between ceiling exhaust grille and fan mounted on roof,
 - 4. Equip exhaust fan with gravity type backdraft damper.
- 5. Exhaust fans to be Pace CRE-15 rated at 1500 CFM at 3/8" external S.P. 1/4 H.P.

Shop Drawings (1527)

- l. After contract has been awarded, this Contractor shall furnish the Architect, for approval, four (4) sets of shop drawings for all equipment and material being furnished by this Contractor not later than thirty (30) days from date of contract, and four (4) sets of erection drawings for all congested areas, such as equipment rooms, etc., and of any areas which are materially changed due to change over after the contract is signed.
- 2. Contractor shall btain Architect's approval on all the above before any equipment is purchased or any piping is installed. Contractor shall also secure approval of the public authorities having jurisdiction on all equipment installed and on the layout of the complete system.

Guarantee (1528)

Unless otherwise specified all material furnished and installed under this section shall be new and free from defects and shall be guaranteed for a period of one year from date of acceptance of work. Should any trouble develop during this period due to defective materials or faulty workmanship, this Contractor shall furnish all material and labor necessary to correct the trouble without cost to the Owner.

DIVISION # 16

General (1601)

The General Conditions and Special Condition of the specifications for the Ardhitectural and Structural work shall be as much a part of this section of the Specifications and of the agreement between the Contractor and the Sub-contractors as though they were herein repeated.

The Contractor shall visit the site of the job to determine all conditions affecting his work, prior to submitting his bid. Ignorance of existing conditions will not relieve the Contractor from any obligation to his bid or to the contract.

Permits and Codes (1602)

Complete installation shall be in strict accordance with the latest Rules and Regulations of the Codes of the State and Local authorities having jurisdiction and to the Regulations of the Electric and Telephone Utilities. If the Contractor observes that the drawings and/or specifications are at variance, he shall promptly notify the Architect in writing. Should the Contractor perform any work in non-compliance with the above mentioned Codes and Regulations, and without such notice to the Architect, he shall bear all costs arising therefrom. Any items in excess of Code Requirements shall take precedence unless special permission is obtained from the Architect.

Procure and pay for all necessary and usual permits, inspections, etc., for all electrical work, and upon completion of the job the Contractor shall, together with the Architect, test out and inspect the entire installation.

Scope (1603)

The electrical work shall include a complete installation for lighting, power, signal systems, etc., as indicated on the electrical drawings and as specified herein in detail under "Work Included".

Mention herein, or the indication on the drawings shall require the Contractor to furnish each item mentioned or indicated, complete with all related and incidental items such as switches, receptacles, protective and control devices necessary or required to serve all outlets or equipment. Provide and perform all labor necessary to install all items mentioned or indicated.

The Contractor shall determine in advance the location of other equipment to be installed and shall be required to avoid interference with same.

Excavation and Backfilling

(1604)

Trenching, excavation, backfilling, restoration of paving, etc., required by this work shall be included in this contract. All work shall be done in a manner approved by the Architect.

Wiring throughout shall be concealed unless otherwise indicated. Exposed runs of conduit or tubing shall be at right angles to or parallel with the structural lines of the building. All feeders and branch circuits serving lighting and appliances to have solid neutral, properly grounded. Surface work in finished areas shall be installed in surface metal raceway equal to Wiremold.

Home runs to panels may be re-routed or re-grouped if desired, but must conform to all Code requirements and must not change the function of the branch circuits. Circuit numbers shown on the plans do not necessarily refer to branch circuit numbers on panels. Balance all branch circuits properly at distribution panels to utilize three or four wire feeders.

All work shall be executed in a workmanlike manner and shall present a neat and mechanical appearance upon completion. A sufficient number of journeyman electricians shall be employed so that every portion of the work shall have the direct supervision of qualified mechanics. The Architect reserves the right to order the removal of any man, who in his opinion, is not qualified or cooperating with other crafts for the best interests of the job.

Materials (1606)

Materials shall be new, of current standard design conforming to the standards of the Underwriters' Laboratories, Inc. and to the requirements of all enforcing authorities having jurisdiction and to the requirements of the serving Utility.

Where the finish, shape or size of equipment is such as to prevent or make unsuitable the use of the exact type specified, suitable types having as nearly as practicable the same quality and functional uses as those specified, shall be used upon approval from the Architect.

All devices shall be specification grade and be equal to the following:

Control switches, Hubbell #1221 Duplex receptacles, Hubbell #5242 Photo-electric switches, Precision or Bryant Flush plates, Stainless steel.

Outlet boxes shall be code gauge, galvanized steel, of proper type and of sufficient size to accommodate all wires, fittings and devices contained therein as specified in the Codes.

For ceiling light outlets, boxes shall be 4" octagon, 1-1/2" or more deep, with 3/8" fixture studs. Bracket light outlets shall also be equipped with a 2" x 3" plaster ring.

For switch, receptacle and similar outlets, boxes shall be 4" square, 1-1/2" or more deep, with single or two gang flush device vovers mounted vertically. Where three or more devices are at one location, use one piece gang boxes, with suitable device cover. Install not more than one device per gang.

Wiring Method (1607)

Firing method for service and all runs underground or in concrete to be hot dipped, galvanized, rigid steel conduit. In other locations electrical metallic tubing may be used, as limited by code. Aluminum conduit shall not be used underground or in concrete. EMT shall not be used where exposed to weather.

No run of conduit or tubing shall contain more that the equivalent of four quarter bends and all fittings shall be approved for the locations used.

Runs of conduit in concrete shall be securely fastened in place and have corks inserted in all open ends, before concrete is poured. It shall be the responsibility of this contractor to replace any conduits containing concrete without additional cost.

Electrical metallic tubing where used in wet locations shall have water-tight connectors and couplings, made up tight. In dry locations indentor type fittings may be used. Set screw type fittings for sizes 1" and smaller will not be accepted. EMT connectors shall be factory pre-insulated with bushings having a smooth well rounded edge. For exposed runs of EMT, offset type connectors shall be used.

Minimum wire size for any circuit, shall be No. 12 unless specifically noted on the plans. Home runs over 50 ft. long for circuits carrying 1000 watts or more shall be No. 10. All runs underground or in concrete in contact with earth shall contain type RW, TW, RHW or THW wire. All wire No. 3 and larger shall be type RHW or THW. All wire in locations with an ambient temperature greater than 100 degrees F. shall be type RHW, THW or other type approved for the purpose.

Work Included (1608)

1. Service & Distribution:

Revise existing service and distribution, as shown on the plan, to provide a phote-electric and clock controlled panel to supply current to new lighting installation.

New main switch may be fused switch or molded case circuit breaker.built into panel, at contractors option. Sub-panel shall contain breakers equal to NLAB or NQB, bolted to the bus bars. All cabinets shall be galvanized steel with standard sprayed finish.

Provide individual, engraved, bakelite signs for each service and distribution switch or breaker to clearly indicate load served. Provide sign on each panel to correspond with sign at service or distribution. Fill out directory cards, typewritten, indicating use and location of all circuits.

2. Lighting Fixtures:

Fixtures shall meet the standards and bear the lable of Underwriters' Laboratories, Inc. Ballasts shall be ETL, CBM certified, high power factor type with low noise level.

For location of fixtures look for type letters adjacent to outlets. Install a fixture on every outlet, unlabeled outlets shall have the same type of fixtures as neighboring or similar labeled ones.

Requests for substitutions must be submitted 5 days prior to opening bids and must be accompanied by descriptive information showing construction, weight or metal, finish, type of plastic or glass. ETL photometric data, etc.

Provide fixtures as follows or approved equal:

Type "A" One tube, 96", 1500 ma having clear, ribbed, acrylic enclosure with foam rubber end gaskets and neoprene seals on sockets.

Cool white lamps.

Nu-Art No. STFE-E-196-1500

"B" 1000 watt, Metallic vapor, area flood light. To be fully enclosed having cast aluminum door frame and tempered glass lens. Lens or reflector shall be hinged to permit relamping without removing parts. High power factor ballast to be self contained. Provide slip fitter for pole mounting and 1000 watt metallic vapor lamp.

Pole to be galvanized steel. 41 ft. long complete with 1-1/4" x 48" anchor bolts.

Flood; Crouse-Hinds No. GAL-10-M-HP-4 Pole; Crouse-Hinds No. ML 3486, Galvanized

"C" 4" porcelain keyless receptacle. 150 watt.
P & S No. 110

"D" Mercury vapor bracket with diecast canopy and widespread prismatic globe. 100 watt deluxe white lamp and photoelectric control.

Art Matal No. 3682 - Cell

3. Heating:

Unless otherwise shown on the plans or in the Mechanical Specifications, power wiring to all motors, starters, etc. shall be by the Electrical Contractor. This will include the mounting of all motor starting equipment and final connection to the motors.

Mechanical Contractor will furnish all motor starters, pilot lights, etc. Control wiring to thermostats, interlocking controls, etc., will be included in the Mechanical Contract unless specifically shown on the electrical plan.

Provide outlets as required for Mechanical Contractor's control transformers, connect to nearest receptacle circuit. Provide a disconnect switch or junction box at each motor when required by Code, whether shown on the plans or not.

Verify location of all mechanical equipmentl

Electrical contractor to furnish and install one 3000 watt, 240 v infrared heater, equal to Electromode No. 8353-A, complete with percentage timer control, No. 8385-DS, where shown on the plans.

4. Telephone Outlets:

Extend 3/4" conduit from existing boiler room to the Life Guard's shelter as shown on the plans. Outlet to consist of masonry box with stainless steel blank cover. Mounting height 54" above deck.

Work Not Included

(1609)

- 1. Appliances, motors or current consuming equipment.
- 2. Controls and control wiring for heating and ventilating equipment.
- 3. Temporary Electric Power for construction work.

Final

(1610)

Contractor shall submit a list of all materials, fixtures, etc., to the Architect for his approval within 15 days after award of the contract.

Tools and materials shall be kept in an orderly manner throughout the construction period and upon completion of the work, all suppliers, materials, tools, etc., furnished by this contractor shall be removed from the premises. Dirt and debris of whatever nature caused by the execution of the electrical work shall be removed as directed by the Architect.

Leave the entire electrical system in proper working order and explain and demonstrate to the Owner the operation and care of all equipment installed in this contract.

The Electrical Contractor shall guarantee the entire electrical installation to be in full accordance with the contract. He shall replace promptly any portion developing defects through normal use, within one year from the acceptance of the work without cost to the Owner.

Architectural Planning Division City of Portland, Oregon 1020 S. W. Front Ave. Portland, Oregon 97204

> <u>ADDENDUM</u> <u>NO. 1</u> February 17. 1970

Project: COLUMBIA PARK FOOL ALTERATION 1969

January 8, 1970 7500 N. Woolsey

Bureau of Parks, City of Portland

Notice to Bidders:

All changes included in addenda issued prior to the bid date are to be included in the bidders' proposal and the contents of such addenda become a part of the contract documents for this project.

Metals - Division #5

- Nelding (503) All connections of steel members to be welds that develop full strength of the members.
- 2. Provide steel ladder rungs per Oregon State Regulations Safety Code.

Carpentry - Division #6

Materials (604)

- Gang-nail trussed joists by Air King Mfg. Corp. are approved for paragraph 6.
- 2. Truss Manufacturer to provide engineered drawing of entire roof framing applicable to his system.
- 3. Secure ledger to concrete masonry wall with 1/2" x 8" anchor bolts, 2'-0" o/c. Secure joists to ledger with framing anchors. Detail "A", sheet 1 of drawings.
- 4. Apply 3/4 inch roof sheathing so that end joints are staggered. Place 2 x 4 blocking beneath all panel edges otherwise unsupported. Nail plywood sheathing with 3 d nails at 6" o/c to all supporting members, not less than 3/8 inch from edge.
- 5. 3/4" plywood shearhing to bear Identification Index No. 48/24.
- 6. Johns-Manville Type F (flexible) asbestos cement board, 1/8" thickness is approved in lieu of Type U, 3/8" thick, as specified in paragraph 7.

Doors, Windows and Glass - Division #8

- 1. Door No. 3 to comply with and have attached to the U. L. Class "C" label for door and frame.
- 2. Doors No. 4 to comply with and have attached to the U. L. Class "E" or "F" label for door and frame. Substitute louvers 12" from bottom of doors, with total free area of 452 sq. inches, for full louver panels as specified.
- 3. Republic steel 634 series doors and frames are approved for bidding.

Specialties- Division #10

Benches (1002) - At contractors' option, all new benches may be furnished in lieu of reconditioning and refinishing existing spectator benches.

Mechanical - Division #15

- 1. Jay R. Smith Drainage Products approved for Floor Drains and Gutter Drains.
- 2. Laars AF 4900 Heavy Duty Commercial Fool Heater approved. Mechanical (1522).
- 3. Gas Fire Unit Heaters as manufactured by Durham-Bush, Model W, are approved for areas designated in paragraph (1524).
- 4. Fire Damper to be Fire Underwriters approved and have U.L. approved fusible links, of 12 ga. steel construction, factory primed, self lubricating bearings. Refer to attached drawing of Present Boiler Room showing location and requirements.
- 5. Royal Gas Vent Piping approved. Mechanical (1525).
- 6. Gas Vents to extend a minimum of 24 inches above roof comply with City of Fortland Building Code.
- 7. Roof drains from shelters at Pool side to be carried into deck perimeter gutter drainage system.
- 8. Provide a clearly marked gas shut-off per Portland Building Code #7-708.

Electrical - Division #16

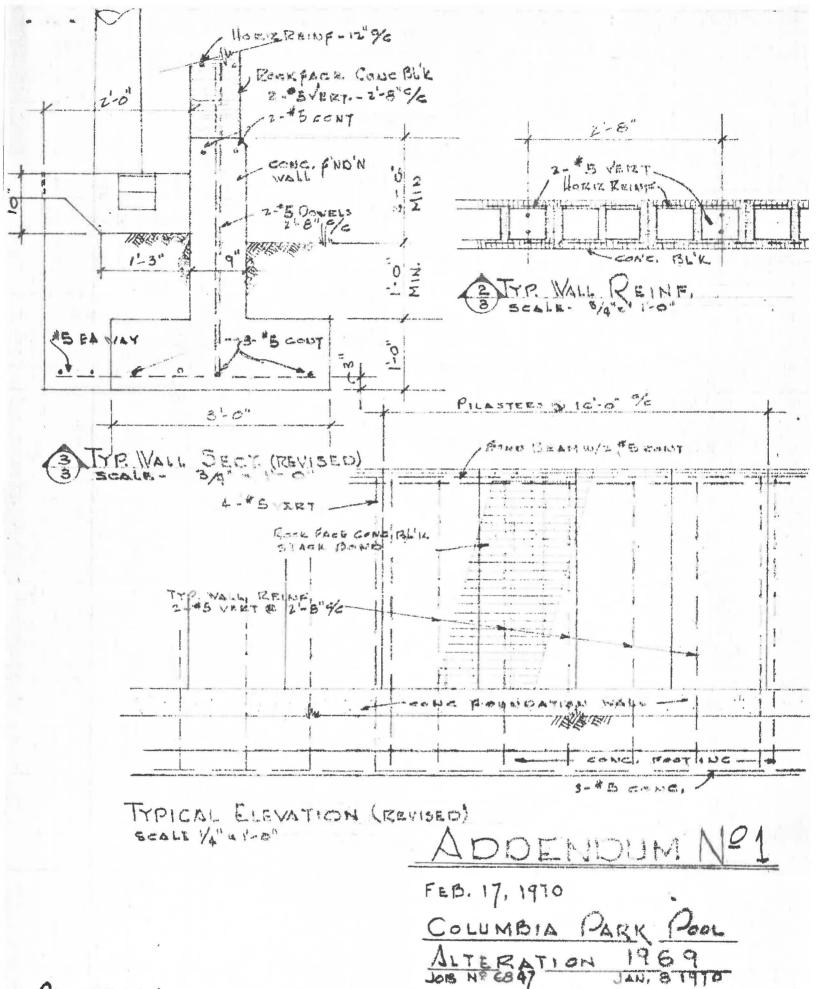
- 1. Under type "B" (fixtures) change 1-1/4" x 48" anchor bolts to read 1-1/4" x 24".
- 2. Flood Wide lite F 1001-BWRB-B and Steber 2885-120H approved for bidding.
- 3. Pole Garmire G3-40 and Valmont DS 210 A40 P2 are approved for bidding.

Attachments:

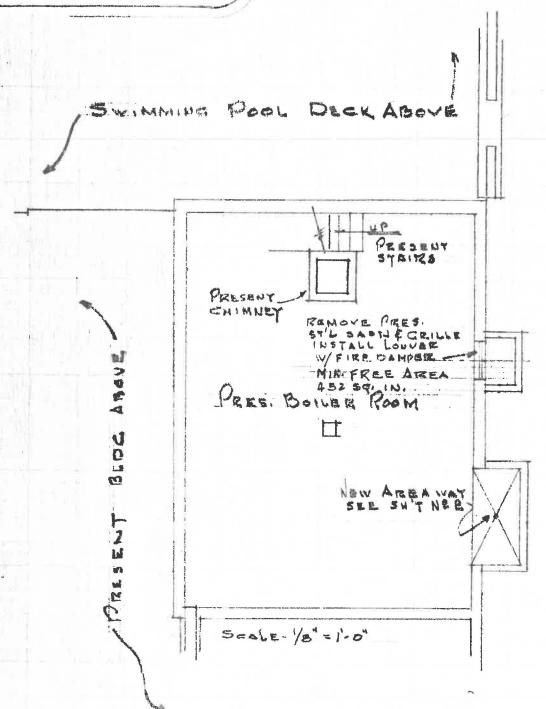
Page 3 of 4. Revised detail drawing of Masonry Wall, footing and reinforcement, Sect. 3/3. Revised offset reinforcement spacing, Sect. 2/3.

Page 4 of 4. Drawing of Present Boiler loom showing 452 ng. inch louver with Fire Damper to be furnished and installed in existing areaway opening.

Town Constituting



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ADDENDUM Nº1

FEB. 14, 1970

COLUMBIA PARK POOL ALTERATION 1969 JOB Nº GEAT JAN. B. 1970

