



MULTNOMAH COUNTY OREGON

BOARD OF COUNTY COMMISSIONERS
ROOM 605, COUNTY COURTHOUSE
1021 S.W. FOURTH AVENUE
PORTLAND, OREGON 97204

GLADYS McCOY • Chair • 248-3308
PAULINE ANDERSON • District 1 • 248-5220
GRETCHEN KAFOURY • District 2 • 248-5219
RICK BAUMAN • District 3 • 248-5217
• District 4 • 248-5213
JANE McGARVIN • Clerk • 248-3277

AGENDA OF
MEETINGS OF THE MULTNOMAH COUNTY BOARD OF COMMISSIONERS
FOR THE WEEK OF
May 29 - June 2, 1989

Tuesday, May 30, 1989 - 9:30 AM - Informal Briefings. .Page 2
Tuesday, May 30, 1989 - 1:30 PM - Executive Session . Page 3
2:00 PM - Informal Meeting
Thursday, June 1, 1989 - 9:30 AM - Formal. Page 4

Tuesday, May 30, 1989 - 9:30 AM

Multnomah County Courthouse, Room 602

INFORMAL BRIEFINGS

1. Legislative Briefing (if needed) - Fred Neal, Howard Klink
2. Update on Columbia Villa Project - Norm Monroe and Rod Englert

PUBLIC TESTIMONY WILL NOT BE TAKEN AT INFORMAL MEETINGS

Tuesday, May 30, 1989 - 1:30 PM

Multnomah County Courthouse, Room 602

EXECUTIVE SESSION - to discuss pending labor negotiations as allowed under ORS 192.660(1)(d) - Darrell Murray

INFORMAL MEETING

2:00 PM

1. Informal Review of Bids and Requests for Proposals:
 - a) Burnside Bridge Sidewalk Rehabilitation
 - b) Animal Control Night Services
 - c) Emulsion Heating Kettle
2. Report and Recommendations regarding request that the Board authorize the Department of Human Services to pursue American Correctional Association Accreditation for Donald E. Long Home - Duane Zussy and Hal Ogburn
3. Report and Recommendations regarding County/Provider operated Downsizing Project - Duane Zussy and Hal Ogburn
4. Informal Review of Formal Agenda of June 1, 1989

PUBLIC TESTIMONY WILL NOT BE TAKEN AT INFORMAL MEETINGS

Thursday, June 1, 1989, 9:30 AM

Multnomah County Courthouse, Room 602

Formal Agenda

REGULAR AGENDA

DEPARTMENT OF GENERAL SERVICES

- R-1 Budget Modification DGS #17 making an appropriation transfer within General Services from Insurance Fund Professional Services salary savings to reclassify an Administrative Technician to Management Analyst
- R-2 Resolution Concerning the Establishment of a Policy for Parental Leave for Employees of Multnomah County

DEPARTMENT OF HUMAN SERVICES

- R-3 In the matter of an intergovernmental agreement with Clackamas County for purchase of County juvenile detention space as available whereby County will receive \$161,454 in equal three-month payments from July 1, 1989 to June 30, 1990
- R-4 In the matter of an intergovernmental revenue agreement with State Health Division to Health Services reflecting an increase in Federal/State WIC funding to pay for data system terminals in County Health Clinic WIC Programs
- R-5 Budget Modification DHS #60 reflecting revenue increases in the amount of \$15,296 from State Health Division grant to Health Services, Equipment WIC Programs for purchase of data system terminals in Health Clinics
- R-6 In the matter of ratification of an intergovernmental agreement (Amendment #4) with Oregon State Adult and Family Services Division whereby the State will continue the Refugee Early Employment Project (REEP), and reimburse the County for providing health services to refugees on a prepaid capitation basis for period July 1, 1989 to September 30, 1990
- R-7 Budget Modification DHS #55 reflecting a decrease in the amount of \$69,358 from Human Services Director's Office, Community Services, within Materials & Services to reflect actual FY 87-88 carryover amounts and additional revenue contracts with State Community Services

- R-8 Budget Modification DHS #56 making an appropriation transfer in the amount of \$80,000 within Social Services from Developmentally Disabled (DD) Case Management to DD Contracts to reflect anticipated shortfall in funding for Employment Transportation for DD clients, and increasing and decreasing various positions and line items
- R-9 Budget Modification DHS #58 reflecting an appropriation in the amount of \$9,548 from Clackamas County to Social Services, Administration and re-programs \$5,590 in State Mental Health Local Administration revenue within Social Services to pay for County on-loan personnel services
- R-10 Budget Modification DHS #59 making an appropriations transfer in the amount of \$1,109 within Social Services from A & D Contracts to A & D Operations to revise earlier budget decisions regarding purchase of telecommunication equipment for substance abuse treatment services to the hearing impaired

ORDINANCES - DEPARTMENT OF HUMAN SERVICES

- R-11 First Reading - An Ordinance adopting a recommendation of the EMS Policy Board to amend Emergency Medical Services Rule 631.502 by revision of the Advanced Life Support Treatment Protocols, and declaring an emergency

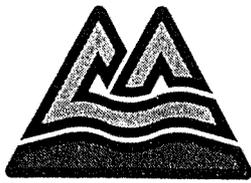
Thursday Meetings of the Multnomah County Board of Commissioners are recorded and can be seen at the following times:

Thursday, 10:00 PM, Channel 11 for East and West side subscribers

Friday, 6:00 P.M., Channel 27 for Rogers Multnomah East subscribers

Saturday 12:00 PM, Channel 21 for East Portland and East County subscribers

bj
0499C.49-53



MULTNOMAH COUNTY OREGON

Jmf # 1
5/30/89 PM

DEPARTMENT OF GENERAL SERVICES
PURCHASING SECTION
2505 S.E. 11TH AVENUE
PORTLAND, OREGON 97202
(503) 248-5111

GLADYS McCOY
COUNTY CHAIR

BOARD OF
COUNTY COMMISSIONERS
MAY 24 PM 2:45
MULTNOMAH COUNTY
OREGON

MEMORANDUM

TO: Jane McGarvin, Clerk of the Board
FROM: Lillie M. Walker, Director, Purchasing Section
DATE: May 24, 1989
SUBJECT: FORMAL BIDS AND REQUESTS FOR PROPOSALS SCHEDULED FOR INFORMAL BOARD

The following Formal Bids and/or Professional Services Request for Proposals (RFPs) are being presented for Board review at the Informal Board on Tuesday,

Bid/RFP No.	Description/Buyer	Initiating Department
B61-600-3523	BURNSIDE BRIDGE SIDEWALK REHABILITATION	DES/ Transportation
	Buyer: Larry Weaver Ex. 5111	Contact: Dave Johnson Phone: 6039
RFP #9S0623	ANIMAL CONTROL NIGHT SERVICES	DES/ Animal Control
	Buyer: Franna Ritz Ex. 5111	Contact: Mike Oswald Phone: 667-4024
B19-351-3519	EMULSION HEATING KETTLE	DES/ Fleet Services
	Buyer: Jan Thompson Ex. 5111	Contact: Tom Guiney Phone: 5353

cc: Gladys McCoy, County Chair
Board of County Commissioners
Linda Alexander, Director, DGS

Copies of the bids and RFPs are available from the Clerk of the Board.

Please run the following Classified Advertisement as indicated below, under your CALL FOR BIDS section

MULTNOMAH COUNTY

BURNSIDE BRIDGE SIDEWALK REHABILITATION

Bids Due June 22, 1989 at 2:00 P.M.
Bid No. B61-600-3523

Sealed bids will be received by the Director of Purchasing, Multnomah County Purchasing Section, 2505 S.E. 11th Ave., Portland, OR 97202 for: Railing Rehabilitation, Lift Span Sidewalk Removal and Replacement, Fixed Span Sidewalk Overlay

Plans and Specifications are filed with the Purchasing Director and copies may be obtained from the above address for a \$5.00 non-refundable fee. **CHECKS AND MONEY ORDERS ONLY.** Plans and Specifications will not be mailed within the Tri-County area.

PREBID CONFERENCE: MANDATORY - June 15, 1989 at 10:00 am @ Multnomah County Bridge Maintenance Shop; 1402 SE Water Ave.; Portland OR

PREQUALIFICATION OF BIDDERS Pursuant to the Multnomah County Public Contract Review Board Administrative Rules (AR 40.030) Prequalification shall be required for this project for the following class(es) of work: Reinforced Concrete & Structural Steel Bridges and Grade Separation Structures

Prequalification applications or statements must be prepared during the period of one year prior to the bid date. Prequalification application and proof of prequalification by the Oregon Department of Transportation must be actually received or postmarked to Multnomah County Purchasing Section by not later than 10 days prior to bid opening.

All bidders must comply with the requirements of the prevailing wage law in ORS 279.350.

Details of compliance are available from the Purchasing Section, Department of General Services, 2505 S.E. 11th Avenue, Portland, OR 97202, (503) 248-5111.

Contractors and subcontractors must be licensed for asbestos abatement work if the project involves working with asbestos.

NONDISCRIMINATION Bidders on this work will be required to comply with the provisions of Federal Executive Order 11246. The requirements for Bidders and Contractors are explained in the Specifications.

No proposal will be considered unless accompanied by a check payable to Multnomah County, certified by a responsible bank, or in lieu thereof, a surety bond for an amount equal to ten percent (10%) of the aggregate proposal. The successful bidder shall furnish a bond satisfactory to the Board in the full amount of the contract.

Multnomah County reserves the right to reject any or all bids.

LILLIE WALKER, DIRECTOR
PURCHASING SECTION

Publish June 1, 2, & 5 1989

TO: Skanner

Please run the following Classified Advertisement as indicated below, under your CALL FOR BIDS section

MULTNOMAH COUNTY

BURNSIDE BRIDGE SIDEWALK REHABILITATION

Bids Due June 22, 1989 at 2:00 P.M.
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LILLIE WALKER, DIRECTOR
PURCHASING SECTION

Publish Week of June 5, 1989

Please run the following Classified Advertisement as indicated below, under your CALL FOR BIDS section

MULTNOMAH COUNTY

BURNSIDE BRIDGE SIDEWALK REHABILITATION

Bids Due June 22, 1989 at 2:00 P.M.
Bid No. B61-600-3523

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Plans and Specifications are filed with the Purchasing Director and copies may be obtained from the above address for a \$5.00 non-refundable fee. **CHECKS AND MONEY ORDERS ONLY.** Plans and Specifications will not be mailed within the Tri-County area.

PREBID CONFERENCE: MANDATORY - June 15, 1989 at 10:00 am @ Multnomah County Bridge Maintenance Shop; 1402 SE Water Ave.; Portland OR

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Contractors and subcontractors must be licensed for asbestos abatement work if the project involves working with asbestos.

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Multnomah County reserves the right to reject any or all bids.

LILLIE WALKER, DIRECTOR
PURCHASING SECTION

Publish Week of June 5, 1989

PROJECT NAME: Burnside Bridge Sidewalk Rehabilitation
LOCATION: Burnside Bridge
KIND OF WORK: Sidewalk Rehabilitation
PROJECT NO.: 1064R
SUBMITTED BY: Dept. Environmental Svcs.-Transportation Division
BID NUMBER: _____
BID ADVERTISEMENT DATES: _____
BID OPENING DATE: _____

BID PROPOSAL FOR CONSTRUCTION



**MULTNOMAH
COUNTY**

Department of General Services
Purchasing Division
2505 S.E. 11th Avenue
Portland, Oregon 97202
(503) 248-3322

Bidder's Name _____
Address _____

Telephone Number _____

FOR BID RESULTS, CALL
248-5338
AFTER 3:00 P.M.

BID PROPOSAL FOR CONSTRUCTION

These Bidding Pages are part of the Bid Documents and contain the following:

- Proposal
- Bid Sheet
- Proposal Bond
- Bidder Residency Statement
- Certificate of Compliance with ORS 305.380-.385
- Return Envelope

Instruction to Bidders

- Proposal &
Bid Sheet: Complete form and sign where indicated.
- Proposal Bond: Proposal Bond shall be made payable to Multnomah County, in an amount of ten (10) percent of the Bidder's maximum Bid price and in the form of a certified check, cashier's check.
- Bidder Residency
Statement: This form must be completed to be eligible for bidding.
- Certificate of
Compliance with
ORS 305.380-.385 This form must be completed to be eligible for bidding.
- Return Envelope: Submit these Bidding Pages in the sealed envelope before the deadline given in the Construction Specifications Manual.

P R O P O S A L

To the Board of County Commissioners of Multnomah County:

The undersigned, as bidder, declares:

That the only persons or parties interested in this proposal as principals are those named herein;

That this proposal is made without collusion with any other person, firm or corporation; that he has carefully examined the plans, specifications, addenda, if any, and form of contract therefor on file in the office of the Purchasing Director.

In submitting this Bid, Bidder represents as more fully set forth in the Agreement, that:

Bidder has examined copies of all the Bid Documents and of the following addenda:

Date _____ Number _____

Date _____ Number _____

Date _____ Number _____

Date _____ Number _____

(receipt of all of which is hereby acknowledged) and also copies of the Advertisement of Invitation to Bid and the Instructions to Bidders.

That he has personally inspected the actual location of the work and all other local conditions affecting it;

That he submits this proposal subject to the terms and conditions stated in the preceding "Instructions to Bidders;"

That if this bid is accepted, the bidder shall covenant in his contract, and it shall be a condition of his bond, as provided by O.R.S., that in performing his contract he will pay and cause to be paid not less than the prevailing rate of wages as of the date of his bid in Multnomah County, per hour, per day, and per week for and to each and every workman who may be employed in and about the performance of his contract; and

That he has satisfied himself as to the quantities and conditions and understands that in signing this proposal he waives all right to plead any misunderstanding regarding the same.

He also proposes and agrees:

That if this bid is accepted, he will contract with said Board of County Commissioners, in the said form of contract, to provide all necessary machinery, tools, apparatus and other means of construction, and to do all the work and furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements of the County Engineer as therein set forth; and that he will complete the work within the specified number of workdays as stated in the paragraph, "COMPLETION TIME LIMIT" in the specifications; and

That he will accept as full payment therefor the amount earned under the contract as computed, in the manner described in the specifications, from the quantities of the various classes of work performed and the respective unit prices bid as set out in the following schedule:

B I D S H E E T

ITEM	QUANTITY	UNIT PRICE	AMOUNT
1. Mobilization	All Req'd		
For	Lump Sum	\$	\$
2. Metal Handrail Removal & Reinstallation	430 Lin. Ft.		
For	Per Lin. Ft.	\$	\$
3. Metal Handrail Rehab.	430 Lin. Ft.		
For	Per Lin. Ft.	\$	\$
4. Metal Handrail Extra Work	Force Account		
For	SEE NOTE		\$5,000.00
5. Sidewalk Removal	38 Cu. Yd.		
For	Per Cu. Yd.	\$	\$
6. Removal of 1/2" Concrete Overlay	1,025 Sq. Yd.		
For	Per Sq. Yd.	\$	\$
7. Structural Concrete, Class 4000 - 3/4	6 Cu. Yd.		
For	Per Cu. Yd.	\$	\$
8. Latex-Modified Concrete	41 Cu. Yd.		
For	Per Cu. Yd.	\$	\$
9. Special Concrete	21 Cu. Yd.		
For	Per Cu. Yd.	\$	\$

NOTE: Force account items listed above are for information and shall not be bid.

B I D S H E E T

ITEM	QUANTITY	UNIT PRICE	AMOUNT
10. Structural Steel A-36	6,040 Lbs.		
For	Per Lb.	\$	\$
11. Steel Grating	6,830 Sq. Ft.		
For	Per Sq. Ft.	\$	\$
12. Steel Form Deck	3,300 Sq. Ft.		
For	Per Sq. Ft.	\$	\$
13. Reinforcing Steel, Epoxy Coated	1,100 Lbs.		
For	Per Lb.	\$	\$
14. Welded Wire Fabric	3,250 Lbs.		
For	Per Lb.	\$	\$
15. Epoxy Injection Edge Beam	76 Lin. Ft.		
For	Per Lin. Ft.	\$	\$
16. Epoxy Injection Extra Work	Force Account		
For	SEE NOTE		\$10,000.00
17. Epoxy Mortar Patching Edge Beam	60 Cu. Ft.		
For	Per Cu. Ft.	\$	\$
18. Epoxy Mortar Patching Underneath Sidewalk	58 Cu. Ft.		
For	Per Cu. Ft.	\$	\$

NOTE: Force account items listed above are for information and shall not be bid.

B I D S H E E T

ITEM	QUANTITY	UNIT PRICE	AMOUNT
19. Epoxy Mortar Patching Extra Work	Force Account		
For	SEE NOTE		\$10,000.00
20 Rebar Splicing, Edge Beam	Force Account		
For	SEE NOTE		\$8,000.00
21. Deck Drain Assembly	4 Each		
For	Per Each	\$	\$
22. Flagging	460 Hours		
For	Per Hours	\$	\$
23. Temporary Protection and Direction Measures for Traffic	All Req'd		
For	Lump Sum	\$	\$
			\$ _____

NOTE: Force account items listed above are for information and shall not be bid.

The party by whom this proposal is submitted, and by whom the contract will be entered into in case the award is made to him, is _____, doing business ("a corporation," "a partnership" or "an individual") at _____ Street, _____, City and State, which address is the address to which all communications concerned with this proposal and the contract should be sent.

The names of the president, treasurer and manager of the bidding corporation, or the names and residences of all persons and parties interested in this proposal as partners or principals are as follows:

Name	Address
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

The name of the surety by which the surety bond covering the contract, if awarded, will be furnished, and the name and address of the surety's local agent are as follows:

Name of Surety _____

Name of Agent _____

Address _____

Accompanying this proposal is _____ in the amount of
("Bidder's bond," "cash" or "certified check")

_____ Dollars (_____)

which amount is not less than ten percent of the total amount of the bid.

If this proposal shall be accepted and the undersigned shall fail to or neglect to contract as aforesaid, and to give bond in the sum of the total amount of the bid as aforesaid, with surety satisfactory to the Board of County Commissioners within five days from the date of receiving from the Board of County Commissioners the contract prepared and ready for execution, the Board of County Commissioners may, at its option, determine that the bidder has abandoned the contract, and thereupon forfeiture of the security accompanying this proposal shall operate and the same shall be the property of Multnomah County.

Dated _____, 19 ____

(Signature of Bidder) _____
(Legal name of person, firm or corporation)

By _____ (Name)

_____ (Title)

_____ (Name of bidder)

_____ (Business address)

_____ (Telephone number) (Federal ID #)

MULTNOMAH COUNTY
PROPOSAL BOND

KNOW ALL MEN BY THESE PRESENTS, That we, _____
_____, as principal
and the _____
a corporation duly organized under the laws of the state of _____
Having its principal place of business at _____
in the state of _____, and authorized to do business in
the State of Oregon, as surety, are held and firmly bound unto the County of
Multnomah for payment as liquidated damages in the amount of ten (10) percent
of the total amount of the bid of said principal for the work hereinafter
described, for the payment of which, well and truly to be made, we bind
ourselves, our heirs, executors, administrators and assigns and successors and
assigns, firmly by these presents.

The condition of this bond is such that, whereas the principal herein is
herewith submitting his or its proposal for the following construction, to
wit:

BURNSIDE BRIDGE SIDEWALK REHABILITATION

said bid and proposal, by reference thereto being hereby made a part hereof.

NOW, THEREFORE, if the said proposal and bid submitted by the said
principal be accepted, and the contract be awarded to said principal, and if
the said principal shall enter into and execute the said contract and shall
furnish bond as required by the County of Multnomah within the time fixed by
the Board of County Commissioners, then this obligation shall be void;
otherwise to remain in full force and effect.

SIGNED and sealed this _____ day of _____

Principal

Countersigned at _____

this _____ day of _____

Surety

BIDDER RESIDENCY STATEMENT

The 1987 Oregon Legislative Assembly enacted a reciprocal preference law which states, in part:

In determining the lowest responsible bidder, a public contracting agency shall, for the purpose of awarding the contract, add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides.

"Resident bidder" means a bidder that has paid unemployment taxes or income taxes in this state during the 12 calendar months immediately preceding submission of the bid, has a business address in this state, and has stated in the bid whether the bidder is a "resident bidder" ...

"Nonresident bidder" means a bidder who is not a "resident bidder" as defined ...

1. CHECK ONE: Bidder is / A resident bidder / A nonresident bidder
2. If a resident bidder, enter your Oregon business address:

3. If a nonresident bidder, enter state of residency: _____

Bidder certifies that the information provided above is true and accurate.

Signature: _____ Title: _____

Name (Print or Type): _____

Firm: _____

Telephone: _____ Date: _____

246U

CERTIFICATE OF COMPLIANCE WITH ORS 305.380-.385

The undersigned provider of goods, services or real estate space to Multnomah County hereby certifies under penalty of perjury that to the best of my knowledge, the undersigned is not in violation of any Oregon tax laws described in ORS 305.380(4).

Dated: _____

By _____

Please call Purchasing Division if there are any questions about methods of compliance with this statute.

246U

380U

Specifications For Multnomah County Oregon Construction

Project: Burnside Bridge Sidewalk Rehabilitation

Location: Burnside Bridge

Kind of Work: Sidewalk Rehabilitation

Project No.: 1064R

Submitted by: _____
(Contractor)

Bid No.: _____

1620 S.E. 190th Avenue Portland, Oregon 97233



MULTNOMAH COUNTY OREGON

Department of Environmental Services
Transportation Division

For Bid Results
Call 248-5338
After 3:00 P.M.

ESTIMATED QUANTITIES

<u>ITEM</u>	<u>QUANTITY</u>
1. Mobilization	All Req'd
For	Lump Sum
2. Metal Handrail Removal & Reinstallation	430 Lin. Ft.
For	Per Lin. Ft.
3. Metal Handrail Rehab.	430 Lin. Ft.
For	Per Lin. Ft.
4. Metal Handrail Extra Work	Force Account
For	SEE NOTE
5. Sidewalk Removal	38 Cu. Yd.
For	Per Cu. Yd.
6. Removal of 1/2" Concrete Overlay	1,025 Sq. Yd.
For	Per Sq. Yd.
7. Structural Concrete, Class 4000 - 3/4	6 Cu. Yd.
For	Per Cu. Yd.
8. Latex-Modified Concrete	41 Cu. Yd.
For	Per Cu. Yd.
9. Special Concrete	21 Cu. Yd.
For	Per Cu. Yd.
10. Structural Steel A-36	6,040 Lbs.
For	Per Lb.
11. Steel Grating	6,830 Sq. Ft.
For	Per Sq. Ft.

NOTE: Force account items listed above are for information and shall not be bid.

ESTIMATED QUANTITIES

<u>ITEM</u>	<u>QUANTITY</u>
12. Steel Form Deck	3,300 Sq. Ft.
For	Per Sq. Ft.
13. Reinforcing Steel, Epoxy Coated	1,100 Lbs.
For	Per Lb.
14. Welded Wire Fabric	3,250 Lbs.
For	Per Lb.
15. Epoxy Injection Edge Beam	76 Lin. Ft.
For	Per Lin. Ft.
16. Epoxy Injection Extra Work	Force Account
For	SEE NOTE
17. Epoxy Mortar Patching Edge Beam	60 Cu. Ft.
For	Per Cu. Ft.
18. Epoxy Mortar Patching Underneath Sidewalk	58 Cu. Ft.
For	Per Cu. Ft.
19. Epoxy Mortar Patching Extra Work	Force Account
For	SEE NOTE
20 Rebar Splicing, Edge Beam	Force Account
For	SEE NOTE
21. Deck Drain Assembly	4 Each
For	Per Each

NOTE: Force account items listed above are for information and shall not be bid.

ESTIMATED QUANTITIES

<u>ITEM</u>	<u>QUANTITY</u>
22. Flagging	460 Hours
For	Per Hours
23. Temporary Protection and Direction Measures for Traffic	All Req'd
For	Lump Sum

NOTE: Force account items listed above are for information and shall not be bid.

TO ALL PLANHOLDERS

THE COUNTY MAY REJECT ANY BIDS IF THE CONDITIONS
ON PAGE 3 OF THIS PROPOSAL, "INSTRUCTIONS TO
BIDDERS," ARE NOT FOLLOWED.

NOTICE TO CONTRACTORS

Sealed proposals, addressed to the Purchasing Director of Multnomah County, Oregon, and endorsed "Bid Proposal for Construction, Multnomah County, Oregon," to wit:

Burnside Bridge Sidewalk Rehabilitation

will be received by the Purchasing Director of Multnomah County, 2505 S.E. 11th Avenue, Portland, Oregon, 97202, until 2:00 P.M., , 1989, at which time they will be publicly opened and read.

Under no circumstances will any bid be considered that has been received after 2:00 P.M.

All proposals must be made upon blank forms to be obtained from the Office of the Purchasing Director, 2505 S.E. 11th Avenue, must give the prices proposed, both in writing and figures, and must be signed by the Purchasing Director, and may be obtained at the above address. A charge of Five Dollars (\$5.00) will be made for the Bid Proposal, Specifications, and Plans. This Five Dollars will not be returned.

Each bid is to be presented under sealed cover, endorsed, "Bid Proposal - Burnside Bridge Sidewalk Rehabilitation," and filed with the Purchasing Director of Multnomah County, Oregon, and shall be accompanied by a surety bond or certified check made payable to Multnomah County Oregon, for an amount equal to ten percent of the amount of each bid, and no bid shall be considered unless such bidder bond or check is enclosed therewith. Such bond or check shall be delivered upon the condition that if said bid be accepted, the party bidding will promptly and properly enter into and execute contracts and bonds in accordance with the award.

Should the successful bidder to whom the contracts are awarded fail to execute the same within five days from the date of notification of such award, such bond or check shall be forfeited to Multnomah County as liquidated damages. All other bonds or checks will be returned to the unsuccessful bidder who submitted the same.

A good and sufficient bond with a satisfactory surety will be required for the faithful performance of the construction contract in a sum equal to the contract price. Such bond shall be approved as to form by the Multnomah County Counsel.

All bids are to be compared on the basis of the Engineer's estimate of the quantities of work to be done and materials to be furnished. All contracts for work to be done shall be in writing, executed by the Contractor and the County Chair of Multnomah County in quintuplicate.

NOTICE TO CONTRACTORS (Continued)

The estimated quantities of work are approximate only, being given as a basis for the comparison of bids, and the Board of County Commissioners of Multnomah County does not expressly nor by implication agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work that may be deemed necessary or expedient.

The right is reserved to reject any and all proposals or to accept the proposal deemed best for Multnomah County and to award the contract as is provided by O.R.S.

Bid No. _____

MULTNOMAH COUNTY, OREGON

Dated _____

By GLADYS McCOY
Chair of the Board

REVIEWED:

LAURENCE KRESSEL
Multnomah County Counsel

Larry F. Nicholas
LARRY F. NICHOLAS, P. E.
County Engineer

By _____
Deputy

INSTRUCTIONS TO BIDDERS

BIDDING

THE BID TO BE SUBMITTED MUST BE MADE ON THE "BID SHEET." THE SIGNATURE OF BIDDER SUPPORTING THE BID MUST APPEAR IN THE SPACE PROVIDED FOR THIS PURPOSE, AND THE COMPLETE "BID PROPOSAL FOR CONSTRUCTION" PACKET MUST BE SUBMITTED IN ITS ENTIRETY.

WORK ON WHICH BIDS ARE TO BE RECEIVED

The work on which bids are to be received is as described on the sheets following Page 10a.

TIME AND PLACE OF RECEIVING BIDS

The time and the place at which bids will be received are as stated upon page one hereof.

SPECIFICATIONS AND PLANS

The work covered by this Proposal shall be done in accordance with the provisions, specifications, terms and requirements set out in the "Standard Specifications for Highway Construction" of the Oregon State Highway Division, 1984 Edition, supplemented by the special provisions given on the sheets following Page 10a and supplemented by the plans, profiles and other information on file in the office of the Purchasing Director.

BIDDING REQUIREMENTS AND CONDITIONS

The bidder's attention is directed to the provisions of SECTION 102 of the above Standard Specifications supplemented hereinafter, which set forth various conditions and requirements governing the submission and acceptance of proposals.

FILLING IN PROPOSAL FORMS

The bidder must submit his proposal on the Proposal form contained in the "Bid Proposal for Construction" packet. The filling in of the blank spaces in the proposal should be done in accordance with the apparent intent. Unit bid prices shall be written in ink, both in words and in numerals. Proposals which do not conform with these requirements may be rejected as informal.

INSTRUCTIONS TO BIDDERS (continued)

CANCELLATION

Multnomah County reserves the right to cancel award of this contract at any time before execution of the contract by both parties if cancellation is deemed to be in Multnomah County's best interest. In no event shall Multnomah County have any liability for the cancellation of award. The bidder assumes the sole risk and responsibility for all expenses connected with the preparation of its bid.

PREQUALIFICATION REQUIREMENT

Pursuant to Multnomah County Public Contract Review Board (PCRB) Administrative Rule AR 40.030, prequalification shall be required for this project in the following classes of work:

Reinforced Concrete and Structural Steel Bridges and Grade Separation Structures.

AWARD AND EXECUTION
OF CONTRACT

The date or dates for the completion of the work contemplated by this contract shall not be vitiated by the fact that there will, of necessity, be a certain period of elapsed time between the date of receiving bids and the signing of the written instruments by all parties thereto.

In specifying the date or dates for completion, it has been assumed that a period of not more than forty (40) days will elapse between the receiving of the bids and the delivery to the Board of County Commissioners by the Contractor of the contract and accompanying bond executed by the Contractor and his Surety. The forty (40) days are comprised of thirty-five (35) days between the receiving of bids and the submission to the Contractor of the written instruments of the contract and bond for execution; and, five (5) days in which the Contractor has to execute and deliver to the Commissioners the executed contract and accompanying bond. If the period between the receiving of bids and the submission to the Contractor of the contract for execution exceeds thirty-five (35) days, consideration will be given granting a corresponding extension of time specified for the completion of the work.

The Contractor shall within the five (5) days from the date of notification by the Board of County Commissioners of Multnomah County that the contract is ready for signature and, before commencing work thereunder, furnish to the Board of County Commissioners a fully executed contract and bond and shall maintain said bond in force during the continuation of his contract.

The bond must be satisfactory to the Board of County Commissioners in the full amount of the contract price for the faithful performance of the contract in all respects. No contract shall be binding until said bond is furnished and approved by the Board of County Commissioners of Multnomah County and, if said bond is not furnished within the said five (5) days herein specified, the contract shall be immediately terminated without any notice or further action by either party.

No work may be commenced by the Contractor until the contract and bond are submitted to the Board of County Commissioners; and, the County Engineer shall, in writing, notify the Contractor of a specific date when he shall proceed with the work and this will be used as a basis of beginning to determine working days.

PERFORMANCE - PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: That we _____
a _____ hereinafter called "Principal" and _____
_____ of _____, State of Oregon,
hereinafter called the "Surety," are held and firmly bound unto Multnomah
County, Oregon, hereinafter called "County," in the penal sum of _____
Dollars (\$ _____)
in lawful money of the United States, for the payment of which sum well and
truly to be made, we bind ourselves, our heirs, executors, administrators and
successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that Whereas, the Principal
entered into a certain Contract with the County, dated the _____ day
of _____, 1989, a copy of which is hereto attached and made a part
for the construction of:

Burnside Bridge Sidewalk Rehabilitation

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform
its duties, in accordance with all the undertakings, covenants, terms,
conditions and agreements of said contract during the original terms thereof,
and any extensions thereof which may be granted by the County, with or without
notice to the Surety, and if he shall satisfy all claims and demands incurred
under such Contract, and shall fully indemnify and save harmless the County
from all costs and damages which it may suffer by reason of failure to do so,
and shall reimburse and repay the County for all outlay and expense which the
County may incur in making good any default, and shall promptly make payment
to all persons, firms, subcontractors, and corporations furnishing materials
for or performing labor in the prosecution of the work provided for in such
contract, and any authorized extension or modification thereof, including all
amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs
on machinery, equipment and tools, consumed or used in connection with the
construction of such work, and all insurance premiums on said work and shall
pay and cause to be paid not less than the prevailing rate of wages as of the
date of his bid in Multnomah County, per hour, per day and per week for and to
each and every workman who may be employed in and about the performance of his
Contract and shall pay all contributions or amounts due the State of Oregon or
departments thereof pursuant to state law from such contractor or
subcontractors incurred in the performance of said contract, and pay all sums
of money withheld from the contractor's employees and payable to the State Tax
Commission pursuant to ORS; and shall pay all other debts, dues and demands
incurred in the performance of the said Contract and shall pay the County of
Multnomah, by and through its Board of County Commissioners, such damages as

PERFORMANCE PAYMENT BOND (Page 2)

may accrue to the County under said Contract and for all labor performed in such work, whether by subcontractor or otherwise, and shall in all respects perform said Contract according to law, then his obligation shall be void; otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said Surety, for value received, hereby stipulates and agrees that no charge, extension of time, alteration or addition to the terms of the Contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligation on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

PROVIDED FURTHER, that for one year after the completion of the construction described in said Contract, and in addition to all previously stated obligations, undertakings, covenants, terms, conditions and agreements, the Surety agrees to keep in force this bond to insure and guarantee that the Principal will fulfill his obligation of restoration and maintenance of subject property for a period of one (1) year beginning immediately at the time of completion of construction described in the Contract. The terms and conditions and agreements of restoration and maintenance are more particularly described in the Proposal.

PROVIDED FURTHER, that no final settlement between the County and the Principal shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in five (5) counterparts, each one of which shall be deemed as original, this ____ day of _____, 1989.

PERFORMANCE PAYMENT BOND (Page 3)

ATTEST:

(Principal) Secretary

(SEAL)

Witness as to Principal

(Address - Zip Code)

Principal

By _____ (S)

(Address - Zip Code)

ATTEST:

(Surety) Secretary

(SEAL)

Witness to Surety

(Address - Zip Code)

Surety

By _____
Attorney-in-Fact

(Address - Zip Code)

REVIEWED:

LAURENCE KRESSEL
County Counsel

By _____

NOTE: Date of Bond must not be prior to date of Contract. If Contractor is Partnership, all partners should execute bond.

**DESCRIPTION OF WORK TO BE DONE
AND SPECIAL PROVISIONS**

On the inserted sheets which follow is given a description of the work to be performed under this particular contract, together with special provisions and instructions supplementing and qualifying the foregoing standard specifications and general provisions making them applicable to the particular work to be done. In case of conflict between these special provisions and instructions and the standard specifications, general provisions or plans, the special provisions and instructions shall govern.

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MULTNOMAH COUNTY SUPPLEMENT
TO OREGON STATE HIGHWAY DIVISION
STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

SECTION 101 - DEFINITIONS AND TERMS

ALL REFERENCES TO THE STATE, OFFICERS, COMMISSIONS, DIVISIONS, REPRESENTATIVES AND DEPARTMENTS AS THE CONTRACTING AGENCY SHALL BE UNDERSTOOD TO REFER TO MULTNOMAH COUNTY, ITS OFFICERS, COMMISSIONS, DIVISIONS, REPRESENTATIVES AND DEPARTMENTS.

Section 101.02 - Definitions

In accordance with the above, words referring to the State, its officers, divisions, etc., shall be understood to refer to Multnomah County and its equivalent officers, commissions, etc., as follows:

Commission - Transportation Commission - County equivalent is the Board of County Commissioners of Multnomah County, Oregon, Room 606, County Courthouse, 1021 S.W. 4th Avenue, Portland, Oregon 97204.

Division - Highway Division - County equivalent is the Transportation Division of the Department of Environmental Services of Multnomah County, Oregon, 1620 S.E. 190th Avenue, Portland, Oregon 97233.

Engineer - County equivalent is the County Engineer of Multnomah County, Oregon, acting either directly or through his authorized representatives.

Project - The specific work described in the proposal and depicted on the plans, to be performed under the contract.

State Controlled Lands - County equivalent is the areas which are controlled, under jurisdiction of, or owned by Multnomah County.

Add the following definition:

Department - The Department of Environmental Services of Multnomah County, Oregon.



SPECIAL PROVISIONSWORK TO BE DONE

Under this contract, the following work to the existing pier sidewalks and spans from Piers No. 1 through No. 4 of the Burnside Bridge, shall be completed as indicated on the plans and as specified herein. The work shall include, but not be limited to, the following items:

1. Remove concrete sidewalks on the lift spans.
2. Remove 1/2" overlay from fixed span sidewalks and pier sidewalks.
3. Remove deteriorated concrete and prepare concrete and reinforcement for patching and epoxy injection of cracks on fixed spans for edge beams and underneath sidewalks.
4. Remove lift span railing.
5. Removal of temporary support steel under sidewalk adjacent to Pier No. 1 if directed by the Engineer.
6. Removal of one panel of sidewalk slab on the fixed span, four (4) places and the end diaphragms under sidewalk at Piers No. 1 and No. 4.
7. Addition of four steel beams and related steel under the sidewalk adjacent to Piers No. 1 and No. 4.
8. Recasting of lift span sidewalks, overlaying of fixed span and pier sidewalks.
9. Repair of the edge beam seats.
10. Patching and epoxy injection of cracks at edge beams and underneath sidewalks on fixed spans.
11. Blast clean and paint lift span railing in shop. Reinstall railing.
12. Installation of storm water collection system at lift spans.

Applicable Standard Specifications

The Standard Specifications which are applicable to the work on this project are the 1984 Edition of the "Standard Specifications for Highway Construction" of the Oregon State Highway Division, and the 1988 edition of the "Standard Specifications for Movable Highway Bridges", American Association of State Highway and Transportation Officials (AASHTO), as amended and supplemented herein.

UNLESS STATED OTHERWISE, ALL NUMBER REFERENCES IN THESE SPECIAL PROVISIONS SHALL BE UNDERSTOOD TO REFER TO THE SECTIONS OR SUBSECTIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 1984, BEARING LIKE NUMBERS.

The following are supporting standard specifications which are invoked by either the plans, these Special Provisions, or the major standard specifications. The current edition of each is to be used except where an earlier edition is specified.

- a. American Society for Testing Materials (ASTM) Annual Book of ASTM Standards (ASTM - designated metals).
- b. American National Standards Institute (ANSI) B46.1 (surface finishes).
- c. Oregon State Highway Division, "Standard Specifications for Welded Highway Bridges", (welded bridge standards).
- d. American Society of Welding Engineers (AWS) "Standard Welding Code - Steel" (1985) (welded structures).
- e. Steel Structures Painting Council (SSPC).

The designated Special Provisions, Supplemental Standard Specifications, and Plans are those which bear the name:

BURNSIDE BRIDGE
Sidewalk Rehabilitation

Class of Project

This is a Multnomah County project.

Completion Time Limit

All work to be done under this contract shall be completed in 130 calendar workdays. Calendar workdays shall be as set forth in Section 108 of the Standard Specifications, except that for this project they shall include every day of the year.

AFFIRMATIVE ACTION REQUIREMENTS
EQUAL EMPLOYMENT OPPORTUNITY

The Contractor's attention is directed to the conditions and requirements, bound herein, for employment, training, reporting, etc., in connection with the employment of minorities.

SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS

102.01 Prequalification of Bidders - Delete the first and second paragraphs and substitute the following:

Pursuant to the Administrative Rules of the Multnomah County Public Contract Review Board (AR-40.030) - prequalification of Contractors shall be required for all projects estimated to cost more than \$50,000.

Prequalifications shall be made through the Department of General Services, Purchasing Division, 2505 SE 11th Avenue, Portland, Oregon 97202.

Those submittals which fail to address all of the above requirements shall be considered nonresponsive and may either be rejected, or returned to the Bidder for resubmittal, at the County's option.

102.05 Examination of Plans, Specifications, Special Provisions and Site of Work - Add the following:

The County will hold a mandatory prebidding meeting for all holders of bidding documents at Multnomah County Bridge Maintenance Shop, 1402 SE Water Avenue, Portland, Oregon on June 15, 1989, at 10:00 a.m.

SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS Cont'd

Bidding documents holders will be given the opportunity to ask questions relating to any details involved in the performance of the work under this contract. Following the meeting the County will conduct an "on-site" inspection of the structure.

Bidders on this contract will be required to have attended this meeting and "on-site" inspection. Bids will not be accepted from any bidder who has not attended the meeting.

Information distributed or responses to questions at the prebidding meeting will not in any way alter or affect any of the provisions contained in the project details and specifications.

102.06 Changes in Plans, Specifications or Quantities Prior to Opening Bids – Delete this Subsection of the Standard Specifications and substitute the following:

102.06 Changes in Plans, Specifications or Quantities Prior to Opening Bids – At any time before proposals are opened, the Division reserves the right to make necessary changes or corrections to plans, specifications, provisions, and quantities. Bidders will be notified of these changes or corrections by letter, facsimile, or telegram sent to the bidders address as it appears in the files of the Division.

The Division will not be responsible for failure of bidders to receive notifications of changes or corrections sent as stated above. Proposals opened and found not to be based on the changes or corrections sent before the proposals were opened will be considered nonresponsive.

102.07 Preparation of Proposal – Add the following to the end of the third paragraph of this Subsection:

The bidder(s) shall provide Federal Tax Identification Number(s) in the appropriate space(s) on the signature page of the proposal form. An individual shall use the person's Social Security Number.

Delete the last sentence of the last paragraph of this Subsection.

SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS Cont'd102.10 Proposal Guaranty -

In the second paragraph change the reference to ten days to read five (5) days.

Delete the third paragraph and substitute the following:

If a proposal bond is given it must be executed on the approved form of Multnomah County. A copy of this form is included with all proposals and may be detached to facilitate execution of same.

102.12 Delivery of Proposals - Add the following:

All proposals shall be delivered in conformance with the requirements of this Subsection. The office designated for receipt of proposals and for withdrawal and revision of proposals is the Office of the Purchasing Director, 2505 SE 11th Avenue, Portland, Oregon 97202.

102.19 Contract Forms, Plans and Specifications -

Delete the first paragraph and substitute the following:

The contract which the successful bidder will be required to sign shall be of the form currently in use by Multnomah County. A copy of the form may be acquired from the County Engineer.

Add to the end of the fifth paragraph of this Subsection:

Drawings pertaining to and becoming part of this contract are those of Multnomah County Department of Environmental Services entitled:

"BURNSIDE BRIDGE SIDEWALK REHABILITATION"

Please direct any questions you may have regarding specifications or design to the Project Engineer, Chuck Henley (503)248-5050 Ext. 6296.

102.30 Preference for Oregon Resident Bidders - This Subsection is required by ORS 279.025 and 279.029, and applies only to contracts for projects financed without federal funds.

SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS Cont'd

In determining the lowest responsible bidder, the Division will, for the purposes of awarding the contract, add a percent increase on the bid of a nonresident bidder equal to the percent, if any, of the preference given to that bidder in the state in which the bidder resides.

The percentage increase applied in each state will be published on or before January 1 of each year by the Department of General Services. The Division may rely on those percentages without incurring any liability to any bidder.

It is understood that this increase will be applied to determine the lowest responsible bidder only and will not cause any increase in payment to the Contractor after award of the contract.

As used in this Subsection:

- "Lowest responsible bidder" means the lowest bidder who substantially complied with all prescribed public bidding procedures and requirements and who has not been disqualified by the Division under ORS 279.037.
- "Resident bidder" means a bidder that has paid unemployment taxes or income taxes in this state during any of the 12 calendar months immediately preceding submission of the bid, has a business address in this state, and has stated in the bid whether the bidder qualified as a "resident bidder."
- "Nonresident bidder" means a bidder who is not a "resident bidder" as defined above.

The bidder shall complete the Bidder Residency Statement form provided by the Division in the proposal booklet. The form shall be signed by a person authorized to sign the proposal. Failure to properly complete and sign the form will be cause to reject the proposal.

SECTION 103 – AWARD AND EXECUTION OF CONTRACT

All references to "Performance Bond" shall be understood to mean "Performance-Payment Bond" as stated in the contract agreement.

103.03 Performance Bond

Delete the last sentence and substitute the following:

The Performance Bond shall be executed on the approved form of Multnomah County, which includes a one year maintenance agreement paragraph. A copy of this form is included with the proposal.

103.06 Execution of Contract and Bond

In the first sentence of the first paragraph of this Subsection, change the reference to ten (10) days to read five (5) days.

103.10 Guaranty – Add the following:

The Contractor shall guarantee for a period of one (1) year from the date of acceptance of the work that all work under the contract is free from all defects due to faulty materials or workmanship. The Contractor shall promptly make such corrections or repairs as may be necessary by reason of such defects including the repairs of any damage to other parts of the system resulting from such defects.

If the Contractor, after notice, fails within 10 days to proceed with such repairs, or other work that may be made necessary by such defects the County may do so and charge the Contractor the cost thereby incurred. The Performance Bond shall remain in full force and effect through the guarantee period.

SECTION 104 – SCOPE OF WORK

104.02 Changes and Alteration of Plans or Character of Work – At the end of the first sentence of the second paragraph of this Subsection, add the word "work."

SECTION 104 - SCOPE OF WORK Cont'd104.05 Maintenance of Traffic Through the Work - Add the following:

The Contractor will not be permitted to interfere with the free flow of traffic on the structure, except as necessary to accomplish the work. Closure of traffic lanes will be permitted only as required for specific operations; see Section 111 and Subsection 108.04.

The Contractor shall be required to limit his activities such that only one (1) outside lane is barricaded and closed to traffic at any time.

The Contractor shall submit to the Engineer for approval a plan and schedule for guiding and protecting traffic and for protecting workers. The Contractor shall receive approval of the plan and schedule prior to commencing any work which interferes with traffic. The plan shall incorporate temporary protection and direction of traffic requirements shown on the plans, in Section 111 of the Supplemental Standard Specifications and Special Provisions and in other applicable portions of the contract documents.

The provisions in this Section and Section 111 may be modified or altered if, in the opinion of the Engineer, public traffic will be better served and work expedited.

SECTION 105 - CONTROL OF WORK

105.01 Authority of the Engineer - Delete this Subsection of the Standard Specifications and substitute the following:

All work on the contract shall completely satisfy the Engineer. The contract and specifications give the Engineer authority over the work. For the purpose of the control of the work, but not for the purpose of determining the Contractor's entitlement to compensation or liability for damages, the decision of the Engineer will be final on all questions including, but not limited to, the following:

- Quality and acceptability of materials and work,
- Measurement of unit price work,
- Acceptability of rates of progress on the work,
- Interpretation of plans and specifications,
- Fulfillment of the contract by the Contractor, and
- Payments under the contract.

SECTION 105 - CONTROL OF WORK Cont'd

The authority of the Engineer is such that the Contractor shall at all times carry out and fulfill the instructions and directions of the Engineer insofar as they concern the work to be done under the contract.

To determine if the Contractor is entitled to additional compensation or is liable for damages, the Engineer's decision within the technical competence of an Engineer, shall be presumed to be correct, unless it is shown to be based on a gross mistake.

For purposes of this Section, a "gross mistake" is one which results in more than a nominal difference in the amount of additional compensation or damages.

An Engineer's decision may be appealed and litigated as provided in Subsection 109.05, Claims for Extra Compensation and Notice.

The Engineer has the authority to suspend the work as set forth in Section 108, particularly Subsection 108.07

All work to be done under the contract will not be considered completed until it has passed final inspection by the Engineer. Interim review of the work by the Engineer during progress of the work signifies favorable opinion and qualified consent; it does not carry with it certification, nor assurance of completeness, nor assurance of quality, nor assurance of accuracy concerning details, dimensions, and quantities. Such review will not relieve the Contractor from responsibility for errors, for improper fabrication, for nonconformance to requirements, or for deficiencies within the Contractor's control.

105.02 Plans and Drawings - Add the following:

Shop Drawings which require correction shall be resubmitted until such time as they are acceptable to the Engineer and such procedure shall not be considered a cause for delay. The Contractor shall bear all costs or damages which may result from the ordering or fabrication of any materials prior to the review of Shop Drawings. As a means of expediting delivery prior to review of Shop Drawings, the Contractor may request, in writing from the Engineer, approval to order raw materials of the correct type for later fabrication from reviewed Shop Drawings.

SECTION 105 - CONTROL OF WORK Cont'd

After review of the Shop Drawings, the Contractor shall supply the Engineer with additional copies of the reviewed Shop Drawings as may be required.

Working Drawings for all scaffold and temporary support structures shall be prepared, signed and stamped with the seal of an engineer registered to practice in the State of Oregon. These Working Drawings along with calculations shall be submitted to the Engineer for review.

It shall be understood that the review of Shop Drawings and drawings and calculations shall in no way relieve the Contractor of any of his responsibility under the contract for the successful completion of the work.

105.05 Cooperation & Superintendence by Contractor - Add the following:

The Contractor shall cooperate and coordinate work efforts with County Bridge Maintenance forces as necessary and directed by the Engineer.

The Burnside Bridge is maintained by the Multnomah County Bridge Maintenance Section. Should the need arise, the County may have to perform emergency maintenance work which will affect lane closures and which may require the Contractor to temporarily remove his men and equipment from the bridge.

If the emergency maintenance work requires a lane closure, the Contractor shall not be allowed to close another lane unless approved by the Engineer.

If completion of a critical work item is delayed by reason of emergency maintenance work performed by the County, consideration of an extension of contract time will be made by the Engineer. Such delay shall not be a basis for claim for extra compensation.

Multnomah County will be letting a contract for mechanical and electrical renovations to the Broadway Bridge, including some electrical work on the Burnside Bridge. The Contractor will cooperate and coordinate his operations with the Broadway project in such a way so as to minimize the time of restriction to river traffic.

SECTION 105 - CONTROL OF WORK Cont'd

The movable span section of the bridge is raised for river traffic with approximately one hours notice. The movable span must be kept clear of all materials, equipment and personnel. No stockpiled material, equipment, or personnel can "ride" the movable span on a rising, lowering cycle. The only exception to this requirement shall be the counterweight provided by the Contractor during sidewalk and railing removal. These weights shall be securely fastened to the lift span when it is opened. Additional weight may be required to keep the structure lift span heavy during the closure periods, but at no time shall the total weight added exceed 45,000 lbs. on each leaf, in the area of construction.

Permission will be granted to the Contractor to have the lift span section remain in the down position for a period of five (5) days, twice, with an interval time of 8 days minimum in between the periods. A formal written request shall be submitted by the Contractor to the County a minimum 45 days prior to the shutdown date. The five (5) day closure period will allow the Contractor time to finish his removal operations, finish reinstalling the metal railing, place the steel deck forms, pour the concrete and allow it to cure sufficiently for lift span opening. During the period of time required for sidewalk and railing removal, prior to the five (5) day closure, the lift span must be ready for opening to accommodate river traffic. Counterweight, measured in foot pounds of moment, slightly greater than the sidewalk and railing to be removed, must be placed on the lift span prior to sidewalk removal. At the time of any opening the counterweight must approximate, closely, the weight of sidewalk and railing already removed, and must be securely attached to the lift span during opening. The Contractor will have the option of arranging his removal operations in such a manner that would permit the opening of only one leaf of the bascule. The anticipated time of this restricted opening must be included in the formal written request for the five (5) day closure. At all times during closure, the structure shall be kept lift span heavy. The Contractor may arrange his operations in anyway he feels he can best utilize the five (5) day closure, provided he has the approval of the Engineer. The Contractor shall submit plans, stamped with the seal of an engineer licensed to practice in the State of Oregon, for placement of the lift span counterweight for approval by the Project Engineer.

The bridge shall be kept as clear as possible of equipment and materials. Stockpiling of materials during non-working hours shall not be allowed.

SECTION 105 - CONTROL OF WORK Cont'd

Stockpiling of materials and equipment shall not be allowed within 26 feet of or on the lift span. The Contractor will be permitted to place materials and equipment on the sidewalks provided the weight of these items does not exceed 30 lbs/sq. ft. when averaged out over 100 sq. ft. of supporting area. The Contractor may be able to place heavier equipment on the sidewalk deck with additional support systems approved by the Engineer. Support systems for the Contractor's equipment should be the responsibility of the Contractor and no additional compensation shall be made for this work. Privately owned vehicles belonging to or used by the Contractor's personnel shall not be parked upon the bridge. The Contractor's foreman's pickup shall be the only non-productive equipment allowed on the bridge.

The work schedule may encompass the Rose Festival period. The work to be performed by this contract will be suspended during the period of time that the use of the bridge is required for the Rose Festival. No temporary signing, barricades, barriers, fencing, construction materials and equipment shall remain on the project site during this period unless approved otherwise by the Engineer. The movable spans shall be fully operational during this period unless approved otherwise by the Engineer.

Contract time will not be charged during this suspended period. No claim for additional compensation will be justified for the delay caused by suspension.

105.06 Utilities

The following is a known list of the utilities within the immediate work area of this project:

Portland General Electric - Electric conduit hanging on the bridge
US West - Telephone conduit hanging on the bridge

Any information shown as to the location of existing water courses, drains, sewer lines or utility lines which cross or are adjacent to the project, has been compiled from the best available sources, but is not guaranteed to be accurate.

The Contractor shall be responsible for all costs for the repair of damage to the Contract work or to any utility, previously known or disclosed during the work, as may be caused by operations.

105.20 Burnside Bridge Sidewalk Rehabilitation Submittals - Add the following:

The Contractor shall submit documents in accordance with the following schedule. Before submission, the Contractor shall review and sign each submittal. The Engineer will review submittals for design concept and conformance with the contract documents and return submittals requiring correction for resubmittal. The contract submittal schedule shall include, but not necessarily be limited to, the listed items.

CONSTRUCTION SUBMITTAL SCHEDULE

WHAT	WHEN (no later than)
1. Subcontractor Agreements	Prior to Notices to Proceed with specific work phases
2. Request for Bridge Closure Periods	45 days prior to first bridge closure period
3. Material Documentation Outline	Prior to beginning millwork or fabrication
4. Type "A" Construction Progress Schedule	Within 14 days of the Preconstruction Conference and before Notice to Proceed
5. Traffic Control Implementation Plan and Schedule	14 days prior to beginning work affecting traffic
6. Certified Welders Statements	14 days prior to commencing shop or field welding
7. Manufacturer's Certificates of Material Compliance	14 days prior to being incorporated in the work

CONSTRUCTION SUBMITTAL SCHEDULE Cont'd

WHAT	WHEN (no later than)
8. Certified Payrolls	Every week whenever any work is being performed
9. Shop Drawings, Details, and Bills	21 days prior to beginning fabrication
10. Steel Erection Drawings	21 days prior to beginning fabrication
11. Falsework Drawings	21 days prior to beginning setup
12. Supplier or Manufacturer's Data	Prior to being incorporated in the work
13. Operational Readiness Certification	Upon work acceptance by the Engineer Prior to final acceptance

SECTION 106 - CONTROL OF MATERIALS

106.08 Samples, Test and Cited Specifications of Materials - Add the following:

Materials requiring a manufacturer's certification from the Contractor will not be permitted to be incorporated into the project without acceptable certification, unless they are necessary for traffic or to restore traffic. If acceptable certifications are not available at time of proposed incorporation, the Contractor may make a written request of the Engineer to determine if the materials can be sampled and tested at the Contractor's expense. The Engineer will then determine if the County can arrange for the material to be sampled and tested, the estimated cost thereof and the estimated length of time to accomplish the testing. The Engineer will provide this information to the Contractor in writing.

SECTION 106 - CONTROL OF MATERIALS Cont'd

Upon receipt of this information, the Contractor may make a written request of the Engineer to proceed with such sampling and testing at the Contractor's expense. If the materials are found acceptable by testing, they will be permitted to be incorporated into the project. If incorporation is necessary for traffic safety or to restore traffic, the above written notices will be waived and the Engineer will sample and test at the Contractor's expense.

Payment for the materials and the cost of incorporating the materials into the project will not be made until the materials are found acceptable by certification or by testing.

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107.06 Industrial Accident Protection - Delete the third paragraph of this Subsection of the Standard Specifications.

Add the following at the end of this Subsection:

The Contractor is advised that employees working over or adjacent to navigable waters are entitled to coverage under the Longshoremen and Harbor Workers Compensation Act (LHWCA) as amended in 1972 (44 Stat. 1424, as amended, 86 Stat. 1251, 33 U.S.C. Section 901 et. seq.). The U.S. Supreme Court case that clarifies the coverage is Director, Office of Workers' Compensation Programs, United States Department of Labor v. Perini North River Association, 103 S. Ct. 634(1983). Ordinary workers' compensation coverage would not prohibit a lawsuit under the Act and could result in direct liability to the Contractor. It is the Contractor's responsibility to determine whether or not they are covered under this Act.

107.11 Deposits in and Bridges over Navigable Waters - Add the following:

The Contractor shall provide means for containment and disposal of fallout material, if any, which accumulates on the water surface and for removal of fallout material that accumulates on the structure. The means shall be satisfactory to the Engineer and meet the requirements of the Oregon Department of Environmental Quality and other regulatory agencies.

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC Cont'dProvisions for River Navigation

In accordance with federal law, the bridge must be opened to river traffic upon demand, except for "closed periods" as noted in Section 105.05 and for peak hour highway traffic, which are from 7:00 a.m. to 8:30 a.m. and from 4:00 p.m. to 5:30 p.m., except weekends and holidays. Vessels inbound from the ocean may demand opening at any time other than the two (2) five day closure periods noted in Section 105.05.

Staging shall not extend more than 5 feet below the lowest truss members.

107.19 Protection and Restoration of Property and Landscape

Add the following:

The Contractor shall be responsible for protection of all road and river traffic, and all adjacent property from damage or disfigurement caused by blasting, flushing, epoxy and painting operations.

107.21 Responsibility for Damage Claims

Add the following:

In connection with the work to be performed under this contract, it shall be understood that the "indemnification and save harmless" requirements extend to the Multnomah County Board of Commissioners and officers and employees of Multnomah County.

Delete the last three paragraphs and substitute the following:

The Contractor shall carry as a minimum personal injury and property damage, insurance in the amounts of \$500,000 per person for personal injury, \$250,000 for property damage, and \$1,000,000 total for all claims arising out of a single accident or occurrence. The Contractor shall include Multnomah County by and through its Department of Environmental Services, its officers, agents and employees, and the City of Portland, as named insureds on insurance policies issued for this project, or shall furnish an additional insured endorsement naming the same as additional insured to the Contractor's existing public liability and property damage insurance.

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC Cont'd

Before the contract is executed, the Contractor shall furnish to the Department, a certificate of insurance for the limits set out above, which is to be in force and applicable to the project.

The insurance coverage shall not be amended, altered, modified or cancelled insofar as the coverage contemplated herein is concerned, without at least 30 days notice mailed by registered mail to the Engineer.

107.25 Contractor's Responsibility for Work - Delete the second sentence of the first paragraph of this Subsection and substitute the following:

The Contractor shall rebuild, repair, restore and make good all losses, injuries and damages to any portion of the work occasioned by any of the above causes before final acceptance and shall bear the expense thereof; except loss, injury or damage to the work due to acts of God, acts of the public enemy or of governmental authorities.

107.27 Assignment of Antitrust Rights - Delete this subsection and substitute the following:

By entering into a contract, the Contractor, for consideration paid to the Contractor under the contract, does irrevocably assign to Multnomah County any claim for relief or cause of action which the Contractor now has or which may accrue to the Contractor in the future, including, at the County's option, the right to control any such litigation on such claim for relief or cause of action, by reason of any violation of 15 USC Sections 1-15 or ORS 646.725 or ORS 646.730, in connection with any goods or services provided to the Contractor by any person, which goods or services are used, in whole or in part, for the purpose of carrying out the Contractor's obligations under this contract.

In the event the Contractor hires subcontractors to perform any of the Contractor's duties under the contract, the Contractor shall require the subcontractor to irrevocably assign to Multnomah County, as a third party beneficiary, any right, title or interest that has accrued or may accrue to the subcontractor by reason of any violation of 15 USC Sections 1-15, ORS 646.725 or ORS 646.730, including, at the County's option, the rights to control any litigation arising thereunder, in connection with any goods or services provided to the subcontractor by a person, in whole or in part, for the purpose of carrying out the subcontractor's obligation as agreed to by the Contractor in pursuance of the completion of the contract.

SECTION 107 - LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC Cont'd

In connection with this assignment, it is an express obligation of the Contractor that it will take no action which will in any way diminish the value of the rights conveyed or assigned hereunder to Multnomah County. It is an express obligation of the Contractor to advise the County Counsel of Multnomah County:

1. In advance, of its intention to commence any action on its own behalf regarding such claims for relief or causes of action;
2. Immediately, upon becoming aware of the fact that an action has been commenced on its own behalf by some other person or persons, of the pendency of such action; and
3. The date on which it notified the obligor(s) of any such claims for relief or causes of action of the fact of its assignment to Multnomah County.

Furthermore, it is understood or agreed that in the event that any payment under any such claim to the Contractor, it shall promptly pay over to Multnomah County its proportionate share thereof, if any, assigned to the County.

SECTION 108 - PROSECUTION AND PROGRESS

108.01 Assignment, Subletting, Specialty Items and Direct Performance of Contract - Insert the following two paragraphs after the second paragraph of this Subsection:

All requests for permission to sublet or subcontract any portion of the contract, or to have any of the work performed by another organization, shall be accompanied by a true copy of the subcontract until the Division has given written consent to the subcontract. Any amendments or modifications to the subcontract agreement shall be submitted in writing and receive the written consent of the Division before any additional work is done.

No assignment of any proceeds due under a contract with the Division will be made unless it is on a form prescribed by the Engineer and the Contractor secures the consent of its surety to the assignment. Copies of the prescribed form titled "Assignment of Claim," Form No. 734-1204, can be obtained from the Manager of Commission Services, Room 121, State Transportation Building, Salem, OR 97310, Telephone (503) 378-6526.

SECTION 108 – PROSECUTION AND PROGRESS Cont'd

108.03 Commencement and Performance of Work – Add the following paragraphs at the end of this Subsection:

The authorized date(s) after which work can proceed shall normally be the date the Contract Time begins to run. This date shall be stated in the Notice to Proceed and corresponds to the "First Notification."

The Contractor shall conduct the work at all times in a manner and sequence that will insure the least interference with traffic. The Contractor shall not begin work that will interfere with work already started. The Engineer may require the Contractor to finish a portion or unit of the project on which work is in progress or to finish a construction operation before work is started on an additional portion or unit of the project.

108.04 Preconstruction Conference, Schedule and Limitation of Operations – Delete this Subsection and substitute the following:

108.04 Limitation of Operations, Preconstruction Conference, and Schedule:

(a) Limitation of Operations – Limitations of operations specified in these Special Provisions include, but are not limited to:

<u>Limitation</u>	<u>Subsection</u>
- Work by other public and private jurisdiction....	105.05
- Regulatory Agency Requirements.....	107.01 & 107.11
- Special events – Rose Festival.....	105.05
- Interim completion time(s) Notice(s) to Proceed..	108.04
- Final completion time(s).....	108.08
- Traffic restrictions.....	104.05 & 111.64

The Contractor shall also be aware of and subject to schedule limitations in the Standard Specifications and Supplemental Standard Specifications which are not listed in this Subsection.

SECTION 108 - PROSECUTION AND PROGRESS Cont'd

"On-site" work shall not begin until such time as the Contractor has labor, tools, equipment, and all materials on the project or guaranteed to arrive on the project without delaying the work and until the Contractor is ready to prosecute the work to completion in a continuous and efficient manner.

For the purpose of these provisions, "on-site" work shall be understood to mean "critical on-site" work as described below, except for installation of temporary signs as required under Section 111 of the Supplemental Standard Specifications. Temporary signs shall be covered or turned according to the requirements of 111.41(f) until "on-site" work is performed unless otherwise directed by the Engineer.

Before any work can begin the Contractor shall be in receipt of written Notice to Proceed and the Division shall be in receipt of required work plans and schedules as follows:

1. Notice of the authority to begin traffic control measures and preparatory work will be given first. This is the date the Contract Time begins and corresponds to the "First Notification."
2. Notice of the authority to begin "critical on-site work" involved in sidewalk replacement that results in the bridge being inoperable will be given after the Engineer is satisfied that all work pre-requisite to an expedient installation is complete.

The Contractor shall notify the Engineer in writing at least twenty-one (21) days prior to beginning any work that restricts vehicular traffic.

The Contractor shall comply with all applicable requirements regarding restriction to navigation.

- (b) Preconstruction conference - Before any work is performed under this contract and within 14 calendar days of the Notice to Proceed, the Contractor shall meet with the Engineer for a preconstruction conference at a time mutually agreed upon.

SECTION 108 - PROSECUTION AND PROGRESS Cont'd

- (c) Type "A" Schedule - The Contractor shall submit project schedules as outlined below. A time scaled bar-chart scheduling technique shall be used to plan, coordinate, and control the progress of construction. The completion dates, work sequencing, and other aspects of the schedule shall conform to the provisions of the contract.

The progress schedules shall take into account the orderly, timely, and efficient prosecution of the work. The project schedules shall indicate the Contractor's plan of prosecution of the work in sufficient detail to enable both the Contractor and the Division to plan, coordinate, appraise, document, and control their respective contract responsibilities.

- (c-1) Project Schedule - At the preconstruction conference, the Contractor shall provide to the Engineer four (4) copies of a time-scaled bar-chart work schedule which shall show the following:

The expected beginning and completion date of each activity.
The expected dates for beginning each phase of each traffic stage.

The schedule shall reflect the elements of the traffic control plan as required under Section 111.02 of the Supplemental Standard Specifications.
The delivery of materials for critical work elements.

Detailed work schedule activities shall include the following:

Construction activities.
Submittal and approval of material samples and shop drawings.
Procurement of critical materials.
Fabrication, installation, and testing of special material and equipment.
Duration of work.
Completion of times of all stages and their subphases.

SECTION 108 - PROSECUTION AND PROGRESS Cont'd

Each activity shall be listed with the following information:

- A description in common terminology.
- The quantity of work, where applicable, common units of measure.
- The activity duration in normal workdays.
- Scheduled start, completion, and time frame shown graphically.

When an activity contains a large quantity of work or is located in several areas or different stages of project, it shall be broken down into several logical separate activities by area, stage, or size. No activity shall contain more work than can be completed within 20 days. The duration of each activity shall be verifiable by manpower and equipment allocation, in common units of measure, or by delivery dates, and shall be justifiable by the Contractor upon the request of the Engineer. The bar-chart shall be prepared as follows:

- The length of bar shall represent the number of normal workdays scheduled.
- The time scale shall be in normal workdays (every day except Saturday, Sunday, and legal holidays, 8 hours each day).
- One calendar day shall be the smallest unit shown.
- At least the first and midpoint of each month shall be identified by date.
- Multiple shift, holiday, or weekend work shall be shown with a different symbol.

The bar-chart drawing(s) shall have a legend and title block and shall be a maximum of 36" x 36" in size. The legend shall contain the symbols used, their definitions, and the time scale shown graphically. The title block shall list the contract name and number, Contractor's name, date of original schedule, and all update dates.

Within seven (7) days after the submission of the project schedule to the Engineer, a meeting will be held between the Engineer and the Contractor to review the project schedule as submitted. Any

SECTION 108 - PROSECUTION AND PROGRESS Cont'd

required changes to the project schedule shall be incorporated into the schedule by the Contractor. Four (4) copies of the project schedule in its completed form shall be signed and marked as approved by the Contractor and shall, within 10 days of the review meeting, be resubmitted to the Engineer.

When completed, the Contractor's approved project schedule shall represent the Contractor's own plans for the project. It shall be the Contractor's responsibilities to ensure that all of the work is described in the project schedule and that it represents the sequence and time planned for the work. Review of this and subsequent schedules by the Engineer shall not relieve the Contractor of responsibilities for timely and efficient execution of the contract. Slack or float time as expressed in the project schedule does not exist for the exclusive use of either party to the contract and belongs to the project.

- (c-2) Project Reporting - The Contractor shall review the project schedule and progress with the Engineer periodically, and shall furnish to the Engineer on a weekly basis a project bar-chart schedule showing planned activities for the following two weeks. This schedule shall be furnished on Friday of each work week.

At the discretion of the Engineer a weekly meeting shall be held between the Engineer, Contractor, and Subcontractor to discuss the schedule and construction activities. At this meeting, project events and changes will be reviewed for their effect on the Contractor's approved project schedule. After any necessary action has been agreed upon, the required changes will be made to the project schedule.

When the Contractor's approved project schedule is updated, the Contractor shall collect information on all activities worked on or scheduled to be worked on since the last update including shop drawings, material procurement, and change orders that have been issued. The information shall include commencement and completion dates on activities started or completed or, if still in progress, the remaining time duration. Detailed subnetworks shall be developed to incorporate changes, additional work, and Extra Work into the project schedule.

SECTION 108 – PROSECUTION AND PROGRESS Cont'd

Detailed subnetworks shall include all necessary activities and logic connectors to describe the work and all restrictions to it. The restraints shall include these activities from the project schedule which initiated the subnetwork as well as those which are restrained by it.

The Contractor shall evaluate this information and compare it with the Contractor's approved project schedule. An undated bar-chart schedule shall be made to incorporate the effect any changes may have on the project completion time(s). The bar-chart diagram shall show the updated information. Four (4) copies of the updated bar-chart shall be submitted to the Engineer within seven (7) days after the progress meeting along with a progress report. The report shall include the following:

Sufficient narrative to describe the past progress, anticipated activities, and stage work.
A description of any current and expected changes or delaying factors and their effect on construction schedule.
Proposed corrective actions.

The predicted completion date(s) for the project schedule shall be within the specified contract time(s) or adjusted contract time or as shown on pending Requests for Adjustment of Contract Time.

Issuance of a progress report does not constitute nor replace any notice the Contractor is required to give the Division under this contract.

- (c-3) Project Schedule Costs – There will be no separate payment for developing, furnishing, monitoring, or updating the project schedules as payment therefore will be included in payment for one or another of the listed bid items.

The Contractor's failure to provide the schedules, schedule information, progress reports, or schedule updates at the times required herein shall cause progress payments under this contract to be suspended until the required data is provided to the Engineer unless the Engineer waives the provisions of this Subsection in writing.

SECTION 108 – PROSECUTION AND PROGRESS Cont'd

108.08 Contract Time for Completion of Work – Add the following:

All work to be done under this contract shall be completed before the elapse of 130 calendar workdays. Contract time will not be charged during the Rose Festival period.

108.08(b) Exclusions from Elapse of Contract Time – At the end of paragraph (b-1) in this Subsection add the following as a third reason for exclusion from elapse of contract time.

- (3) Acts of God

108.09 Adjustment of Contract Time – Add the following to the last sentence of the last paragraph of this Subsection.

..., except for unreasonable delays caused by acts or omissions of the County or persons acting therefor.

108.10(a) Failure to Complete on Time and Liquidated Damages – Delete the table under the heading "Schedule of Liquidated Damages" and substitute the following:

<u>Original Amount of Contract</u>		<u>Per Diem Amount of Liquidated Damages</u>	
<u>For More Than</u>	<u>To and Including</u>	<u>Calendar Days*</u>	<u>Workday</u>
0	25,000	45	60
25,000	50,000	75	105
50,000	100,000	120	165
100,000	500,000	220	310
500,000	1,000,000	380	530
1,000,000	2,000,000	500	700
2,000,000	5,000,000	600	840
5,000,000	10,000,000	830	1,200
10,000,000	-----	1,200	1,700

* Calendar day amounts are applicable when the contract time is expressed on the calendar, calendar workday or fixed date basis.

SECTION 108 - PROSECUTION AND PROGRESS, Cont'-d

108.10(b) Liquidated Damages for Exceeding 5 day Closure Periods - Add the following:

The Contractor shall pay to Multnomah County, not as a penalty, but as liquidated damages the applicable amounts from the following table for exceeding the time allowed during closure periods.

<u>Time Allowed</u>	<u>Time Excess (T) in Days</u>	<u>Per Day Amount of Liquidated Damages</u>
Inoperable Periods (5 day closure period)	$0 < (T) \leq 2$	Actual charges assessed the County for river restrictions*.
	$2 < (T)$	Actual charges assessed + \$1,200

* Assessed charges for river restrictions may range up to \$1,000 per incident plus any additional navigational expense for which the County may be liable.

Any liquidated damages assessed under these Provisions will be in addition to those assessed under Subsection 108.10(a).

108.13 Right-of-Way and Access Delays - Add the following to the last sentence of this Subsection:

..., other than as provided in subsection 108.09.

SECTION 109 - MEASUREMENT AND PAYMENT

109.01(a) General - Add the following to the end of the second paragraph:

All computations shall be rounded off using the following method:

1. The final significant digit will not be changed when the succeeding digit is less than 5.

SECTION 109 – MEASUREMENT AND PAYMENT Cont'd

2. The final significant digit will be increased by one when the succeeding digit is 5 or greater.

109.03 Scope and Limit of Payment – Add the following sentence to the end of the second paragraph:

The costs of bonds and insurance for the project will be considered to be included in the unit price for each item of work performed.

109.07 Payment for Extra and Force Account Work – Add the following sentence after the first sentence of this Subsection:

Under no conditions will the payment for the Extra Work be more than the amount justified by the Engineer on a force account basis.

In subsection "(c) Equipment" delete the name and address of the publisher of the Blue Book from the last sentence and substitute the following:

Dataquest Inc., 1290 Ridder Park Drive, San Jose, CA 05131, Telephone No. (800)227-8444.

Delete the provisions given in Subsection "(c-1) Rate Determination form" of the Standard Specifications.

Delete the provisions given in Subsection "(c-2 Rental rates without operator," Paragraph 3 and substitute the following:

3. The hourly rate for machine and attachment will be paid at the Blue Book monthly rate divided by 176, plus the hourly operating cost.

Add the following paragraph to Subsection (c-2):

8. An amount equal to fifteen percent of the total rental of the equipment will be added for overhead, profit, and all other costs incidental to furnishing and operating the equipment.

Delete the provisions given in Subsection "(c-4) Standby time" and substitute the following:

SECTION 109 - MEASUREMENT AND PAYMENT Cont'd

(c-4) Standby Time - When ordered by the Engineer standby time will be paid at 40 percent of the rental rate established above, excluding operating cost. Rates for standby time which are calculated at less than one (1) dollar per hour will not be paid. Payment will be limited to not more than eight hours in a 24-hour period or 40 hours in a one-week period.

An amount equal to fifteen percent of the cost of standby time, as calculated herein, will be added for overhead, profit, and all other costs including incidental to furnishing and operating the equipment.

Delete the provisions given in Subsection "(c-5) Blue Book omissions," Paragraphs 2 and 3 and substitute the following:

2. Request Dataquest Inc. to furnish a written response for a rental rate on the equipment, which will be presented to the Engineer for approval.
3. Request the Division to establish a rental rate.

SECTION 110 - MOBILIZATION

Mobilization for the work under the contract shall be paid for in conformance with Section 110 of the Standard Specifications supplemented and/or modified as follows:

Subsection 110.01 Scope - Delete the phrase "for premiums on bond and insurance for the project" in the sixth and seventh lines of this Subsection.

110.91 Payment

For the sole purpose of determining progress payment amounts for the item "Mobilization," the amount earned from other bid items will be determined by a schedule of values established by the Engineer for partially completed work. The schedule of values will apply only to the item "Mobilization" and will not be used to determine the amount due under any other bid item.

OREGON STATE HIGHWAY DIVISION
SUPPLEMENTAL STANDARD SPECIFICATIONS

OCTOBER, 1988

SECTION 111 - TEMPORARY PROTECTION AND
DIRECTION OF TRAFFIC

Delete the Table of Contents of Section 111 and Section 111 of the 1984 Standard Specifications and substitute the following:

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SECTION 111 - WORK ZONE TRAFFIC CONTROLDescription

Work zone traffic control shall be constructed in conformance with Section 111 of the Supplemental Standard Specifications bound herein dated October 1988, supplemented and/or modified as follows:

Subsection 111.00 Scope - This work consists of furnishing, installing, moving, operating, maintaining and removing signs, barricades, and other traffic control devices (TCD) throughout the project area according to the standard drawings, the traffic control plan (TCP) for the project, and these specifications, or as established by the Engineer.

The Contractor shall conspicuously post a sign at each end of the Bridge for 24 hour emergency notification. The signs shall include the company name, telephone number and contact person. Lettering shall be no less than 4" in size.

Protective fencing to secure the sidewalk area under construction from pedestrians and the general public shall be installed in conformance to local codes and regulations.

111.01 Definitions and Abbreviations - The following definitions and abbreviations are used in this Section:

(a) Definitions:

Oregon's Manual and Specifications of Uniform Standards for Traffic Control Devices (OMUTCD) - The Oregon Supplements and Manual on Uniform Traffic Control Devices (MUTCD) with Revisions 1, 2, 3, and 4, five exceptions, two Oregon Supplements, the Work Zone Traffic Control Manual, and the Oregon DOT Standards for Signing and Flagging of Highway Division Road Maintenance Operations as adopted by Administrative Rule 734-20-005.

(b) Abbreviations:

ADT	- Average Daily Traffic
NEC	- National Electric Code
MUTCD	- Manual on Uniform Traffic Control Devices
OMUTCD	- Oregon's Manual and Specifications of Uniform Standards for Traffic Control Devices
TCD	- Traffic Control Devices
TCM	- Traffic Control Measures
TCP	- Traffic Control Plan

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.02 General Requirements - The Contractor shall furnish, place, and use traffic control devices that conform to these specifications and the Oregon's Manual and Specifications of Uniform Standards for Traffic Control Devices (OMUTCD) as defined in 111.01(a), except the Oregon DOT Standard for Signing and Flagging of Highway Division Road Maintenance Operations publication shall not be used.

Make any written or verbal changes requested by the Engineer concerning traffic control measures (TCM) without delay. Verbal changes will be followed promptly by a letter. The responsibility to provide TCM lies solely with the Contractor.

Work may be suspended as specified in 108.07 or the TCM may be performed by the Division if TCM are not furnished and maintained by the Contractor. Costs for work performed by the Division will be deducted from monies due the Contractor.

Work which would restrict or interrupt traffic movement shall not be performed on opposite sides of the traveled way at the same time unless prior written approval has been obtained from the Engineer.

111.03 Traffic Control Outside Contract Limits - The Contractor shall provide traffic control measures outside the contract limits when the Contractor's work activities affect traffic.

When construction speed signs are in place, the Contractor shall install 48" x 60" Type "C" signs indicating the posted speed approximately 500 feet beyond the ends of the project facing outgoing traffic. If an existing speed sign is in the vicinity and off the project, this signing will not be required.

111.04 Regulations and Codes - All electrical equipment, materials, and workmanship shall conform to the requirements of the National Electrical Code (NEC) and any local ordinances which apply.

111.05 Contractor's Traffic Control Plan - The Contractor shall submit the following in writing at the preconstruction conference:

- Proposed TCP showing all TCM.
- Proposed order and duration of TCM.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

The Contractor shall submit his proposed plans to the County on an 11 x 17 sheet for review by County and City. Upon County receipt of the proposed plan, the County shall review, in consultation with the City of Portland who has control of the bridge approaches, and return the proposed plan to the Contractor as "approved" or "revisions required" prior to Contractor commencing work.

Submit all proposed TCM additions and revisions during the performance of the contract.

TCM revisions will be subject to a Contract Change Order before implementation.

Do not start work on any stage of construction until all TCD are in place, and the TCP is operating satisfactorily.

Materials

111.10 General - The Contractor shall use new or like new materials for all temporary installations, unless otherwise specified. Provide certifications of quality, equipment lists, and drawing when specified. Acceptance will be by the certifications, equipment lists, drawings, and testing as necessary to assure, compliance with the specifications.

111.11 Temporary Signing - Temporary signing and accessories shall conform to the following:

(a) Signs - Use materials and fabricate signs conforming to Section 645 of the Standard Specifications, except for medium-density overlay plywood, and the following:

(a-1) Size and shape - Use standard size and shape signs conforming to the current edition of the OMUTCD, unless otherwise specified or ordered. Double-face signs will not be allowed except for flagger "STOP/SLOW" sign paddles.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(a-2) Type - Use Type "O" signs, composed of orange reflectorized sheeting background with nonreflectorized black legend on one of the following, unless otherwise indicated on the plans.

- Sheet aluminum.
- 3/4-inch high-density overlay plywood.
- 3/4-inch medium-density overlay plywood.

Medium-density overlay plywood shall conform to the following:

The medium-density overlay shall be applied to both faces of plywood sign material and shall be a cellulose-fiber sheet or sheets containing not less than 17 percent resin solids for a beater-loaded sheet, or 22 percent for an impregnated sheet, both based on the volatile-free weight of resin and fiber, exclusive of glueline. The resin-treated material shall weigh not less than 58 pounds per 1,000 square feet of single face, including both resin and fiber, but exclusive of glueline. After application, the material shall measure not less than 0.012-inch thick. A black or neutral color medium oil alkyd primer plywood edge sealer shall be applied.

(a-3) Folding or turning signs - Temporary signs on posts may be the folding or turning type as long as they can be locked when not in use so the sign message is not visible to any traffic.

(b) Sign supports:

(b-1) Wood sign posts - Use wood sign post material conforming to the

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

size and quantity determined by the sign post size on T.E. Drawing 5457 entitled "Temporary Signs Post Size" included herein.

(b-2) Portable supports - Portable supports shall be:

- Capable of supporting signs in vehicle caused turbulence and winds common to the area in which they are used.
- Constructed in such a manner that the sign mounting height is a minimum of one foot above the pavement surface elevation. This dimension shall be measured from the edge of pavement elevation to the bottom of the lowest sign face. Supports shall be capable of supporting amber flasher units, if required, in proper alignment of traffic.

(c) Sign covers - Temporary sign covers shall be:

- One piece plywood, or another material, if approved. Polyethylene film or canvas will not be allowed.
- Large enough to completely cover the sign.
- Easy to attach to and remove from the sign without damaging the sign face.
- Black, nonreflective, and opaque
- Temporary sign covers will not be required for folding type signs that are in compliance with the requirements of 111.11(a) if the backs are black, nonreflective and opaque.

(d) Sign flags - Sign flags shall be:

- Orange or fluorescent red-orange.
- 16-inch square or larger.
- Made from an acceptable tight woven fabric or plastic sheeting.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(e) Amber flashers - Amber flashers shall be:

- Industry standard 8-inch traffic signal head with visors.
- Visible the full width of the traveled way and shoulders 1,200 feet from the flashers.
- 110-120 volt flashers conforming to the applicable requirements of 661.45 or 12-volt rechargeable flashers capable of the following:
 - Provide a constant flash rate of one flash per second \pm 10 percent.
 - Provide an illuminated period of each flash of 30 percent \pm 10 percent of each flash cycle.
 - Operate one 50-watt, 12-volt incandescent lamp.

111.12 Temporary Barricades, Guard Rail, Barrier and Attenuators - Temporary barricades, guard rail, barrier, attenuators and accessories shall conform to the following:

(a) Barricades - Use barricades conforming to Drawing 2126C.

(b) Guard rail - Use guard rail conforming to Section 606, except posts may be untreated. Continuous rail traffic barriers shall not be used on this project.

Used guard rail materials may be reused provided:

- Timber posts are structurally sound, 6" x 8" or 8" x 8" at least 6 feet long and free from damage which would affect their strength.
- Rail members meet the requirements of the first paragraph of 606.16(b).
- Guard rail hardware is in good condition and conforms to the design for new materials.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(c) Concrete barrier - Use pin and loop concrete barrier detailed on Drawing 2127 and conforming to the applicable requirements of Section 611 of the Standard Specifications.

Pin and loop concrete barrier that conforms to Drawing 2127 and salvaged in good condition may be used when found acceptable by the Engineer. The Contractor shall provide written certification that barrier salvaged from a site outside the limits of the contract meets these specifications and identify the site from which it was salvaged.

(d) Impact attenuators - Use temporary impact attenuators from the Division's Products Listing.

(e) Barrier and guard rail mounted reflectors - Temporary concrete barrier and temporary guard rail reflectors shall have a minimum reflective area of 8 square inches and be one of the following:

- Reflective sheeting conforming to 711.04 or 761.19(c).
- Sealed acrylic plastic prismatic reflex units conforming to 761.18(c-2a).

111.13 Temporary Traffic Delineation - Temporary traffic delineation items and accessories shall conform to the following:

(a) Tubular markers - Tubular markers shall be:

- Manufactured of a material capable of withstanding impact without damage to the markers or vehicles. The tube shall remain in the base when hit by vehicles.
- Capable of remaining upright during normal traffic flow and wind conditions in the area where they are used.
- A minimum height of 28 inches.
- Colored orange.
- Reflectorized with at least two white, flexible reflective bands, at least 3 inches wide, securely attached no more than two inches from the top with no more than six inches nor less than one inch between the bands.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

The use of conical shaped traffic cones will not be permitted. The reflective bands on tubular traffic cones shall be white and shall have minimum specific intensity per unit area (SIA) expressed as candelas per foot candle per square foot as follows rather than the values set forth in Subsection 761.19(c):

<u>Entrance Angle (degrees)</u>	<u>Observation Angle (degrees)</u>	<u>SIA Value</u>
-4	0.2	250
+30	0.2	95
-4	0.5	95
+30	0.5	60
-4	2.0	4
+30	2.0	3

The reflective intensity under wet performance conditions shall be not less than 90% of those shown above when measured at a -4. entrance angle and 0.2" observation angle in accordance with Federal Specification L-S-300C Standard Rainfall test requirements.

(b) Plastic drums - Use plastic drums conforming to the following or from the Division's Qualified Products Listing:

- Made of tough, durable polyethylene.
- Either one or two piece construction. Open tops are not acceptable.
- Hold enough sand to prevent the drums from turning over or moving out of position due to wind or turbulence caused by passing vehicles. No ballast shall be placed on top of drums.
- Have drain hole(s) in the base.
- At least 36 inches high.
- Have a minimum diameter of 18 inches regardless of orientation.
- Have either four integral feet or a flattened side to provide stability and prevent rolling when hit.
- Orange with at least two horizontal, 4-inch to 8-inch wide, orange reflective stripes, and two horizontal, 4-inch to 8-inch wide, white reflective stripes alternately placed around the drums. Nonreflective spaces between reflective stripes shall not exceed 2 inches.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(c) Delineators - Use new or salvaged reflectorized delineators (W-1) or (Y-1) as appropriate, conforming to the requirements of Section 623.

(d) Pavement markers:

(d-1) Reflective pavement markers - Use either Type Ia or type Ib reflective pavement markers conforming to 762.05 or use markers from the Division's Qualified Products Listing.

Use epoxy adhesives conforming to the requirements of 762.06.

Use bituminuous adhesives from the Division's Qualified Products Listing as recommended by the manufacturer.

(d-2) Oiling road markers - Use new oiling road markers conforming to the following requirements:

<u>Polyurethane Marker Body Property</u>	<u>Requirement</u>	<u>ASTM Test Method</u>
Specific Gravity (min.)	1.19	D-792
Hardness (min.)	80A	D-2240
Tensile Strength (min. PSI)	4600	D-412
Ultimate Elongation (min. %)	330	D-412
Modulus @ 300% (min. PSI)	1000	D-412
Stiffness @ -20°F (min. PSI)	17000	D-1053
@ 72°F (min. PSI)	900	D-1053
Compression Set 22 hours @ 70°C (max. %)	65	D-395
Taber Abrasion CS17 Wheel Wt Loss Mg./1000 cycles	3	

Dimensions

Thickness	0.060" + or - 0.010"
Height	between 1-3/4" and 2-1/4"
Width	between 3-1/2" and 4"

Marker Type

Requirements

Type "Y"	A yellow body with yellow reflective tape on both faces and solid butyl rubber adhesive on the base.
Type "W"	A white body with white reflective tape on the face towards oncoming traffic and solid butyl rubber adhesive on the base.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

Reflective Tape Metalized polycarbonate microprism retro-reflective material or equal. Use a minimum 1/4" wide by 3-1/2" long tape with a minimum reflectance of 1,200 candlepower per footcandle per square foot at 1/10° observation and 0° entrance angles.

Adhesive on the base Solid butyl rubber 1/8" thick, 3/4" wide on 1" wide release paper.

Removable cover Adequate to protect the reflective surfaces of the marker during the construction of the chip seals, sand seals, or oil mats.

(e) Striping:

(e-1) Striping paint - Use striping paint conforming to Sections 1 through 6 of the Division's current Standard Specifications for White and Yellow Traffic Line Bead Binder Paint.

Use Glass Beads conforming to Sections 1 through 4 of the Division's current Standard Specifications for Glass Beads (Spheres) for Traffic Line Bead Binder (Paint).

Copies of these specifications are available from the Engineer of Materials and Research.

(e-2) Reflectorized striping tape - Use reflectorized striping tapes from the Division's Qualified Products Listing.

111.14 Temporary Illumination - Materials for temporary illumination shall conform to this subsection of the special provisions.

111.15 Temporary Traffic Signals - Materials for temporary traffic signals shall conform to this subsection of the special provisions.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.16 Temporary Electrical Signs - The Contractor shall furnish electrical signs conforming to the following:

(a) Sequential arrow signs - Use sequential arrow signs with the following features:

- Rectangular, solid construction, with a nonreflective black finish, and meet at least the following requirements:
 - 48-inch x 96-inch size.
 - Contain at least 25 panel lamps.
 - Legibility distance of 1 mile.
- Capable of the following mode selections:
 - Left or right flashing arrows with all lamps forming the arrowhead and shaft simultaneously.
 - Left or right sequential arrows with the arrow forming sequentially from the shaft to the head in three steps.
 - Left or right sequential chevrons forming sequentially in three steps.
 - Double flashing arrows with all lamps forming the arrowheads and shaft simultaneously.
 - Caution, consisting of four or more lamps, arranged in a pattern which will not indicate a direction.
- A flash rate of at least 25 but no more than 40 flashes per minute.
- Minimum lamp "on time" of 50 percent for flashing arrows and 25 percent for sequential arrows and sequential chevrons.
- Manual dimming control capable of reducing the lamp voltage to 50 percent.
- Automatic photoelectric dimming control with a variable dimming range that will reduce the lamp voltage to 50 percent when the ambient light conditions reach 2 footcandles.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Recessed mounted or at least 180° upper hooded panel lamps or lenses. The color of the light emitted shall be yellow.
- Truck or trailer mounted with a self contained power supply for the sign.
- Mounted at least 7 feet above the pavement to the bottom of the sign.

(b) Portable changeable message signs - Use portable changeable message sign units with the following features:

- Minimum message sign panel size of 5'8"x7'5" with a capacity for a three-line message.
- Eight-character display per message line.
- Message modules containing at least 36 different preprogrammed messages (three-line displays) to be selected by the Engineer.
- The capacity to create, preview, and display new messages and message sequences.
- The capability to "lock out" the controller from display.
- A waterproof, lockable cover for the controller keyboard.
- An operator's manual, a service manual, and wiring diagram.
- Quick release attachments on display panel cover.
- Variable flash and sequence rates.
- Manual and automatic dimming capability on lamp bulb matrix models.
- Mounted at least 7 feet above the pavement to the bottom of the message sign panel.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'dEquipment

111.20 General - The Contractor shall use new or like new equipment for all temporary items under this Section unless otherwise specified. Acceptance will be by such testing as the Engineer determines necessary to assure compliance with the specifications.

111.27 Flagger Equipment - Flaggers shall be equipped as follows:

- Clothing to cover the complete body except neck, head, and arms below the point of the shoulders.
- An orange or yellow hard hat.
- An orange, fluorescent red-orange or fluorescent yellow-orange vest. For nighttime conditions, the vest shall be reflective.
- Highly visible, reflectorized "STOP/SLOW" sign paddles conforming to the MUTCD.
- For flaggers farthest from the worksite as indicated in 111.30, 24-inch square or larger red flag made of tightly woven fabric or plastic attached to a 3-foot long staff. The free edge shall be weighted.
- Portable, self-contained two-way radio.
- Illuminated stand area of high visibility, when used at night.

111.28 Pilot Cars - Pilot cars shall conform to the following:

- Be no smaller than a compact pickup truck.
- Have 4 wheels.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Be identified with a 36" x 18" "PILOT CAR FOLLOW ME" sign mounted in a conspicuous place visible from the rear of the vehicle.
- Equipped with an operating rotating light consisting of at least 2 sealed beam lamps with amber colored dome and metal or plastic base.
- Equipped with two-way radio.
- Be operated at a prudent speed.

Labor

111.30 General - The Contractor shall provide flaggers to stop traffic at the work area and to maintain traffic through the work at reduced speeds. Locate flaggers far enough in advance of the work area to permit adequate response time of the motorist to the flaggers' instructions.

When two flaggers are used for one direction of traffic in advance of a worksite, the flagger farthest from the site may use either a red flag or "STOP/SLOW" sign paddle. The flagger nearest the worksite shall use only the "STOP/SLOW" sign paddle.

When one flagger is used in advance of a worksite, use only the "STOP/SLOW" sign paddle.

Station flaggers, as directed, at locations where traffic can enter the highway within the limits of the traffic controlled area, to specifically direct vehicles entering the highway so they will follow the line of pilot car led vehicles in the desired direction of travel.

Flagging stations shall be staffed continuously during those hours requiring flaggers, or until the Engineer determines flagging is no longer required.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

In place of a properly equipped flagger, the Contractor may use a uniformed law enforcement officer to control traffic. If the Contractor uses uniformed law enforcement officers, the provisions of 111.27, except the illuminated stand area, will not be required.

The Contractor shall observe all laws, rules and regulations concerning construction safety and health standards as required in 107.09.

Use flaggers, signal operators, and pilot car operators meeting the following qualifications:

- Mental and physical ability to provide timely, clear, and positive guidance.
- Sense of responsibility for safety of public and work crew.
- Neat appearance.
- Courteous but firm manner.
- Completed an approved worksite traffic control course within the past three years.

Construction

111.40 General - The Contractor shall install, move, operate, maintain, and remove temporary TCD according to the plans, and these specifications and the following:

- Install, maintain, and move all TCD by working with the direction of traffic.
- Provide additional TCD, according to 111.02 of these specifications, when traffic or work conditions require them and when directed.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Remove all temporary TCD when the contract is completed and obliterate all evidence of the temporary devices.
- Remove TCD in a sequence reverse to installation.

When installing, maintaining, moving and removing TCD, protect traffic according to the applicable configuration shown on Drawing 2201.

The configurations shall be modified by replacing the 36" x 36" signs with 48" x 48" signs of the same type and legend and by eliminating the "MEN WORKING" signs.

All temporary TCD are to remain the property of the Contractor.

All appropriate, existing TCD shall remain in operation throughout the contract or until replaced by new, permanent devices.

When existing signing conflicts with temporary signing installed on the project, the conflicting existing signs shall be covered with temporary covers until the temporary signs are removed.

The Contractor shall be responsible for maintenance of all temporary covers.

When the Contractor is not working on the project or is directed by the plans or the Engineer, all inappropriate signing shall be removed or moved to a location that will not pose a hazard to the traveling public.

The Contractor shall post mount all temporary signs on the project except those signs that are required in one location for less than 48 continuous hours.

Signs on portable sign supports shall be mounted at a height of one foot above the roadway edge of pavement elevation. The signs shall have orange or fluorescent red-orange 16-inch square or larger flags mounted above the sign face in such a manner as to not obstruct the viewing of sign messages. The flags shall be made from either a tightly woven fabric or plastic sheeting acceptable to the Engineer.

SECTION 111 – WORK ZONE TRAFFIC CONTROL Cont'd

When signs mounted on portable sign supports are inappropriate, the signs and supports shall be removed or relocated away from traffic and turned so that the sign is not visible to any traffic. If the sign cannot be turned to preclude visibility to all traffic, the sign shall be covered using temporary sign cover conforming to subsection 111.11(c). When the signs are turned or covered, the flags shall be removed or rolled and completely covered with an opaque black, nonreflective sheath to preclude flag visibility.

111.41 Temporary Signing – When work on the project requires flaggers and sign installations at locations not shown on the plans, the Contractor shall install signs according to the OMUTCD, as limited in 111.02. Otherwise, install all temporary signing according to the plans and the following:

(a) Speed zone signing – Cover white speed zone signs or speed riders on other signs if the speed shown is higher than the construction speed zone on orange signs. Uncover them when the construction speed is not in effect. When there is no work on the project, and when directed, cover orange construction speed signs and restore the original white designated speed zone signs. At the trailing ends of the project, install a white sign with the original designated speed. If existing white speed signs are 500 feet or less beyond the project, these additional signs will not be required.

(b) Drop-off signing – Install signs, as shown on Drawing 2201, at the temporary end of paving, or where there is a change of roadway elevation greater than one inch.

(c) Sign supports:

(c-1) Wood sign posts – Mount temporary signs on wood sign posts as shown on the plans and as follows:

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

<u>Sign Location</u>	<u>Vertical Distance Above Pavement or Curb to Bottom of Sign (min.)</u>	<u>Horizontal Distance From Edge of Pavement or Curb to Edge of Sign</u>
Rural and Uncurbed Areas	5 Ft.	6 Ft. to 12 Ft.
Urban, Curbed Areas	7 ft.	2 Ft. (min.)

Signs required in one location for less than 48 hours may be mounted on portable sign supports.

When sign posts are installed in rock, a shorter post may be used provided the post is installed in a buried concrete footing at least 1-foot in diameter and 2 feet deep.

(c-2) Portable sign supports - Mount signs on portable supports one foot above the edge of roadway pavement. Do not use them for more than 48 hours in any one location.

(c-3) Median barrier mounted signs support - Mount signs on median barrier as follows:

- Positioned so the lowest point of the sign is at least 7 feet above the roadway surface.
- Mounted securely with a device that prevents blowdown.
- Mounted so the sign can be turned parallel to the flow of traffic when not in use.

(c-4) Barricade mounted sign supports - Mount signs on Type III barricades as follows:

- Positioned so the lowest point of the sign is at least 7 feet above the roadway surface.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Mounted on 4" x 4" wood posts.
- Fastened to prevent swaying or blowdown of the barricade and sign support assembly.

(d) Sign flags - Install at least two flags, conforming to 111.11(d), above all "ROAD CONSTRUCTION AHEAD," "CONSTRUCTION SPEED" signs, and all signs mounted on portable sign supports. The flags are in addition to specified amber flashers. Mount flags above the signs so that the entire sign and amber flasher is visible at all times.

(e) Amber flashers - On all freeway interstate signs that require amber flashers, use 110-120 volt flashers. On all other highway signs that require amber flashers, use either 110-120 volt flashers or 12 volt rechargeable flashers as the Contractor elects.

(f) In appropriate temporary signs - When temporary signs are not necessary, as determined by the Engineer, to warn traffic of construction conditions, obstructions, or restrictions, do the following:

- Fold, turn, cover, or remove the signs so that the message is not visible to any traffic. Sign covers will not be required for folding type signs if the sign backs are opaque, black, and nonreflective.
- Remove or roll and completely cover flags with an opaque, black, nonreflective sheath.
- Turn off or remove amber flashers.
- Remove or relocate portable signs and supports off the roadway shoulder area and turn them so that the message is not visible to any traffic.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

When only minor work remains on the project, as determined by the Engineer, and the work area does not encroach on the roadway, do the following:

- Remove all temporary signs, including the advance construction signs.
- Provide signs for minor work on portable sign supports subject to 111.41(c-2).
- Place advance construction signs at least 500 feet in advance of the other temporary signs, or as directed by the Engineer.

111.42 Temporary Barricades, Guard Rail, Barrier, and Attenuators - The Contractor shall install temporary barricades, guard rail, barrier, attenuators, and accessories conforming to the following:

- (a) Barricades - Use and place barricades as shown on the plans or as directed.
- (b) Guard rail - Construct temporary guard rail as shown on the plans and Section 606.

Continuous rail traffic barrier consisting of metal guard rail members attached to a portable stand will not be allowed.

- (c) Concrete barrier - Place temporary concrete barrier on 1-1/2" x 24" x 24" cellular type polyethylene, polyfoam, or polystyrene pads. Center a pad at each joint under the barrier so that half of the pad is supporting the end of each section of the barrier.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

Flare the leading end, as shown in the table below, and treat ends as designated on the plans.

<u>Speed (MPH)</u>	<u>Flare</u>
55	16:1
50	14:1
45	13:1
40	11:1

(d) Mounds - When temporary concrete barrier mound end treatment is shown on the plans, construct them with the uncompacted material. Maintain and remove them as directed.

(e) Impact attenuators - Assemble and install impact attenuators according to the manufacturer's recommendations and the following:

- For ease in installing, moving, and removing, the modules may be installed on pallets that are not more than 4 inches high.
- Place and fill the modules with the weight of dry sand shown on the plans.
- Mix salt with the sand to the proportions recommended by the manufacturer or at least 5 percent by volume when no manufacturer recommendations are given.
- Attach an object marker to the lead module as detailed on the plans.

(f) Reflectors - Reflectors used on temporary concrete barrier and temporary guard rail shall be:

- Spaced on 25-foot centers.
- The same type for each run of barrier on guard rail.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Bracket mounted to the top of guard rail posts and concrete barrier. Use epoxy or double faced butyl tape on concrete barrier.
- Yellow when installed on the left side of traffic.
- White when installed on the right side of traffic.
- Positioned to face oncoming traffic.

111.43 Temporary Traffic Delineation - The Contractor shall install temporary traffic delineation items and accessories conforming to the following:

(a) Tubular markers - Use and place tubular markers according to the plans and as directed by the Engineer.

Place tubular markers, no more than 10 feet apart, along both sides of driveways, streets, and road connections within work areas.

Reference made to "cones," "traffic cones," or "26-inch traffic cones" on the plan sheets shall be understood to mean "tubular markers."

(b) Plastic drums - Use and place plastic drums according to the plans or as directed by the Engineer.

Reference made to "plastic safety markers" on the plan sheets shall be understood to mean "plastic drums."

(c) Delineators - Use and place traffic delineators as shown on the plans or as directed by the Engineer, except as provided in 111.43(d).

(d) Pavement edge delineators - When traffic or construction work has obscured the painted should stripe (fog line), install pavement edge delineation the same day by one of the following methods:

- Place and maintain tubular markers along the pavement edge as follows:

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Between existing delineators.
- Space markers as shown for traffic delineators on Drawing 2129, except do not exceed 200 feet.
- Patrol daily and restore them to their proper position at least once in the early morning and once in the late afternoon until the tubular markers are no longer required.
- Remove after a new edge stripe has been painted, or 14 days after completion of the final wearing course, whichever occurs first.
- Install appropriate temporary Type W-1 or Y-1 delineators as shown on Drawing 2129. Remove when directed by the Engineer.
- Install permanent traffic delineators as shown on the plans when included in the Bid Schedule.
- Paint a temporary shoulder stripe (except on the final wearing course) when included in the Bid Schedule.

(e) Pavement markers:

(e-1) Reflective pavement markers - Install reflective pavement markers as shown on the plans and according to Section 649, except for the following:

- Bituminous adhesive may be used in place of epoxy adhesive.
- The Engineer will establish alignment with control points at 200 foot intervals on tangents and at 50-foot intervals on curves.

(e-2) Oiling road markers - Use oiling road markers for chip seals, sand seals, and oil mats. Install the markers during the 24 hour period immediately before placing the chip seals, sand seals, or oil mats. Remove marker covers when termination of pilot car traffic control is ordered.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

If a section of roadway is not completed when traffic control ends, install another set of markers immediately before the next oil shot.

Install oiling road markers as follows:

<u>Location of Lines</u>	<u>Kinds of Lines</u>	<u>Kinds of Markers</u>	<u>Spacing</u>
On Curves & Tangents under 500'	"Skip"	Single	40'
On Tangents over 500'	"Skip"	Single	120'
On Curves & Tangents	Solid "No Passing"	Double	20'

Use Type "Y" road markers for highway centerlines.
 Use Type "W" road markers for lines between adjacent lanes in the same direction of travel.

Install the oiling road markers so that the markers remain in place at least 30 days to allow time for permanent striping. Nail the markers to the roadway surface if necessary.

(f) Striping - Apply 4-inch wide, beaded temporary striping before opening the roadway to traffic unless otherwise permitted. Immediately remove all unacceptable striping and replace with acceptable striping at the Contractor's expense.

(f-1) Painted temporary striping - Use temporary painted striping at locations designated by the Engineer. Apply bead binder at a thickness of 15 mils wet, equivalent to 17 gallons per mile for a 4-inch wide solid line. Apply glass beads at a rate of 5 pounds per gallon of paint. For skip striping, apply 10 foot long stripes with 30-foot gaps.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(f-2) Reflectorized tape - Approved reflectorized striping tape will be allowed for skip line striping for up to two weeks if the Contractor maintains the striping tape in an acceptable condition. Place and maintain 4-inch wide by 1-foot long strips of tape with a 19-foot gaps. Remove tape placed on permanent surfaces after the permanent striping is complete.

(g) Strip removal - Remove painted and thermoplastic stripe by sandblasting or hydroblasting so that the pavement surface is not damaged. Repair any damaged surfaces to the Engineer's satisfaction at no cost to the Division.

Coordinate all removal work with the construction activity. It shall be done during the same day(s) the traffic shift is accomplished, unless otherwise approved by the Engineer. Remove the traffic stripes in areas not affected by construction as directed by the Engineer. Schedule the removal so that the permanent stripes can be repainted by Division forces and maintain safe conditions for the traveling public.

(h) Striping and stripe removal mobilization - Mobilization for striping and stripe removal consists of moving personnel, equipment, supplies, and incidentals to the project site each time the Contractor is required to perform striping and stripe removal.

111.44 Temporary Illumination - Temporary illumination shall be constructed according to the plans and this subsection of the special provisions.

111.45 Temporary Traffic Signals - Temporary traffic signals shall be constructed according to the plans and this subsection of the special provisions.

111.46 Temporary Power Service - The Contractor shall arrange for and provide all electrical power.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.50 Temporary Direct Access on Freeways - Unless shown on the plans no temporary direct access through the access control fence on any controlled access highway will be allowed for a Contractor unless all of the following conditions are met:

- It is within the designated limits of the contract.
- The distance between adjacent interchanges is five miles or more.
- The distance from the temporary direct access to the nearest interchange is two miles or more.
- The Contractor and the State agree that it will be in the public interest to construct and use the temporary access.

If allowed, the Contractor shall do the following:

- Construct standard acceleration and deceleration tapers for the designated speed zone in which it is located.
- Construct a subgrade, base, and pavement suitable for the use intended.
- Barricade, gate, and lock the access control fence during nonwork hours and when not in use.
- Install appropriate advance signing to warn the traveling public when the temporary access is in use. Remove or cover signs when the temporary direct access is not in use.
- Do not allow vehicles using it to cross a travel lane.
- Provide at least 2 lanes, in the same direction, for public traffic on the portion of the traveled way being entered or exited.
- Pay all costs of constructing, maintaining, and removing the temporary direct access.

SECTION 111 – WORK ZONE TRAFFIC CONTROL Cont'd

On sections of freeway roadway closed to the traveling public, the above criteria may be waived at the discretion of the Engineer.

Vehicles entering the median to perform work may exit the median in either direction, with the flow of traffic, subject to temporary direct access criteria listed above.

Maintenance

111.60 General – The Contractor shall maintain all temporary devices while in use as follows:

- Keep the devices in proper position, clean, and legible at all times.
- Keep lights and flashers clean, visible, and operable during both daylight and darkness.
- Trim or remove vegetative growth or other materials so the devices are not obscured.
- Verify the effectiveness of the installations at frequent intervals, both in daylight and darkness, by actual travel and inspection.
- Repair, replace, or restore damaged or destroyed devices to maintain continuity and effectiveness.
- Have a person on the job during working hours, and on call at all other times who:
 - Has the responsibility to maintain all traffic control device in proper position.
 - Is equipped with a two-way radio.
 - Has the authority to assign and control flagging operations.
- File the name and phone number with the Engineer and local police.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

- Maintain all temporary traffic control devices during suspension of work the same as when work is in progress.

111.61 Materials and Equipment - The Contractor shall maintain materials and equipment as follows:

- (a) Impact attenuators - Complete repair of damaged temporary impact attenuators within 24 hours of being notified of the damage.
- (b) Electrical signs - While portable changeable message signs are in use, have on the project site the following, as appropriate for each sign:
 - Lamp-matrix models - 20 extra bulbs and extra driveboard.
 - Reflective-matrix models - 20 extra replaceable reflective elements with an extra driveboards and 2 extra illumination bulbs.

111.62 Maintaining Devices - The Contractor shall maintain traffic control devices as follows:

- (a) Signs - Maintain all existing guide signs, warning signs, and regulatory signs the same as temporary signs and devices are maintained.
- (b) Existing signals, illumination, and sign illumination - Maintain all existing signals, illumination, and sign illumination after the Contractor adjusts them or works on them. Routine maintenance will be provided by the Division, at the Division's expense until the Contractor works on them and after work on them is completed and accepted by the Engineer.
- (c) Electrical signs - Maintain and use the required portable changeable message sign according to the manufacturer's recommendations, traffic control plans, and as approved by the Engineer. Do not display or alter any sign message before it is approved by the Engineer.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

Replace any sequential arrow signs or portable changeable message signs that are damaged or destroyed, when directed by the Engineer, at no cost to the Division.

Replace any damaged or destroyed sequential arrow signs or portable changeable message signs before continuing any work that requires use of the signs.

111.63 Public Safety - The Contractor shall provide public safety as follows:

- Conduct work at all times so there is the least possible obstruction to traffic.
- Follow the provisions of 107.18.
- Do not perform work which would restrict or interrupt traffic movement on opposite sides of the traveled way at the same time.
- Where there are paved shoulders less than 4 feet wide adjacent to excavations, protect the traffic as follows:
 - At the end of each working day, backfill pavement edge excavations to the elevation of the existing pavement with permanent base material or with a temporary wedge of aggregate as shown on the plans.
 - Do not excavate along both edges of the pavement adjacent to traffic at the same time. Before excavating at the edge of the pavement on the opposite side of the roadway, complete the construction to existing pavement elevation on the side which was excavated first.
 - Remove the temporary wedge of aggregate material, if used, before placing permanent base material and place it in the shoulder slope area or spread it uniformly over the subgrade. Payment for furnishing and placing the aggregates in the temporary wedge, and later moving, placing, and compacting these aggregates as specified will be made at the unit price for the appropriate bid item.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.64 Traffic Control - The Contractor shall provide traffic control as follows:

- Maintain the existing lanes of traffic through the project at all times except, when necessary, one lane may be closed to traffic in the immediate work area, but only during those hours when work is actually being performed.
- Submit the proposed methods and times of lane closure in each instance to the Engineer for approval in ample time to allow the traveling public to be notified through the news media.
- Obtain approval from the Engineer before closing any lanes.
- Do not close any lane until the area is signed according to the plans and/or the requirements of this Section.

Work which would restrict or interrupt traffic movement shall not be performed on opposite sides of the traveled way at the same time unless prior written approval has been obtained from the Engineer.

When construction speed signs are in place, the Contractor shall install 48" x 60" Type "C" signs indicating the posted speed approximately 500 feet beyond the ends of the project facing outgoing traffic. If an existing speed sign is in the vicinity and off the project, this signing will not be required.

Work shall be scheduled to minimize adverse impacts to vehicular and pedestrian traffic. The Contractor shall make a special effort to schedule and expedite work so that:

1. Westbound lanes are open during peak traffic hours from 6:00 a.m. to 9:00 a.m., Monday through Friday,
2. Eastbound lanes are open during peak traffic hours from 4:00 p.m. to 7:00 p.m., Monday through Friday,
3. Continuous openings (bridge in the open position) only occurs on weekends from 9:00 p.m. Friday night to 6:00 a.m. Monday morning.

The Contractor's operations shall not impede river traffic in any way, except during the permitted five (5) day closure period.

SECTION 111 – WORK ZONE TRAFFIC CONTROL Cont'd

No lane closures will be permitted until the Contractor has materials and equipment on hand or guaranteed to be delivered so that the work can be prosecuted in an efficient manner with a minimum period of lane closure.

No lane closure will be permitted until the area is adequately signed in accordance with details shown on the plans and/or the requirements of Section 111.

111.65 Work Area Traffic Maintenance – The Contractor shall maintain traffic through the work area according to 104.05 and the following:

(a) Roadway surfaces – If loose rock or dust exist on roadway surfacings, the Engineer may direct one or more of the following:

- Use pilot cars and/or flaggers.
- Apply a fine spray of water to the roadway surface. When water is used, the Engineer will determine the rate of application. Water will be measured and paid for according to Section 233.
- Broom the roadway surface with power brooms. No separate measurement or payment will be made for brooming.

(b) Routing traffic over surfacings – Control traffic being routed over newly constructed surfacings as follows:

(b-1) Aggregates – Where traffic is routed over aggregate surfacings, and when directed by the Engineer, control traffic by pilot cars and/or flaggers.

(b-2) Cement treated base (CTB) – Route traffic over CTB conforming to 308.43 of the special provisions.

(b-3) Asphalt concrete – Route traffic over asphalt concrete conforming to 402.50 or 403.50 of the Supplemental Standard Specifications.

(b-4) Oil mats/chip seals – Where traffic is routed over emulsified asphalt oil mats or chip seals, unless otherwise directed by the Engineer, control the traffic until the entire surface has been broomed or bladed the morning after the aggregate was placed as follows:

- With two or more pilot cars when the ADT exceed 1,500.
- With one or more pilot cars when the ADT is below 1,500.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(b-5) Sand seals - During application of emulsified asphalt and until it is covered with aggregate or the Engineer directs otherwise, control traffic with flaggers and pilot car(s).

Measurement111.80 General

(a) Quantities and adjustments - The pay quantities for temporary traffic control will be measured for payment as follows:

The quantities will be limited to the following:

- Quantities called for by the plans and specifications.
- Additional devices and/or measures mutually agreed to by the Engineer and the Contractor as being necessary to adequately protect and direct traffic.

The following items shall be replaced by the Contractor at no cost to the Division:

- Sequential Arrow Signs
- Portable Changeable Message Signs
- Devices damaged or destroyed by Contractor's equipment or operations.

(b) Temporary protection and direction of traffic - The item "Temporary Protection and Direction of Traffic" will be paid for on the lump sum basis. No measurement of quantities will be made.

111.81 Temporary Signing:

(a) Signs - Temporary signs will be determined by computing the area of the sign to the nearest one-tenth of a square foot of required sign area. The quantity of signs to be paid for under this item will be the minimum number necessary to complete the project, based on the contract plans, specifications, and approved modifications. Measurement will be for those signs installed in their initial location.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

(b) Oversize signs - Oversize advance construction signs will be measured on a unit basis, per each by actual count, where the devices are initially installed on the project.

(c) Amber flashers - Amber flashers will be measured on a unit basis, per each by actual count, where the devices are initially installed on the project.

111.82 Temporary Barricades, Guard Rail, Barrier, and Attenuators:

(a) Barricades and attenuators - Barricades and temporary impact attenuators will be measured on a unit basis, per each by actual count, where the devices are initially installed on the project.

(b) Guard rail and concrete barrier - Temporary guard rail, temporary concrete barrier, and moving temporary concrete barrier will be measured to the nearest linear foot in each run, from end to end of the rail or barrier along the line and grade as installed.

111.83 Temporary Traffic Delineation:

(a) Plastic drums, delineators, and reflective pavement markers - Plastic drums, temporary delineators, and reflective pavement markers will be measured on a unit basis, per each by actual count, where the devices are initially installed on the project.

No measurement will be made for temporary delineators used to delineate the pavement edge because of edge line obliteration.

(b) Striping - Temporary striping will be determined by measuring the actual linear feet of 4-inch painted stripe in place, as accepted by the Engineer.

Skip intervals will not be included in the measurement for payment.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

The quantity of temporary striping will be the number of linear feet of lines, based on a nominal width of 4 inches. Where the plans call for, or the Engineer directs, painting stripes other than nominal width, the linear measurement will be adjusted by converting to equivalent linear feet of nominal 4-inch width.

(c) Stripe removal - Stripe removal will be determined by measuring the actual linear feet of 4-inch stripe removed as accepted by the Engineer.

No measurement will be made for the removal of pavement marking the tape materials.

The quantity of stripe removal will be the number of linear feet of lines based on a nominal width of 4 inches. Where the plans call for, or the Engineer directs, removing stripes other than nominal width, the linear measurement will be adjusted by converting to equivalent linear feet of nominal 4-inch width.

(d) Striping and stripe removal mobilization - Striping and stripe removal mobilization will be measured on the unit basis per each for each time the Contractor mobilizes as required by the Engineer for striping and stripe removal.

111.84 Temporary Illumination - The item "Temporary Illumination" will be paid for on a lump sum basis. No measurement of quantities will be made.

111.85 Temporary Traffic Signals - The item "Temporary Traffic Signals" will be paid for on the lump sum basis. No measurement of quantities will be made.

111.86 Temporary Electrical Signs:

(a) Sequential arrow signs - Sequential arrow signs will be measured on a unit basis, per each by actual count where the devices are initially installed on the project.

(b) Portable changeable message signs - Portable changeable message signs will be measured on the basis of the actual number of hours, to the nearest hour, the signs are operating and in use to control traffic.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.87 Flaggers - Flaggers will be limited to the actual number of hours flagging stations are staffed.

111.88 Pilot Cars - Pilot cars will be limited to the actual number of hours fully operated pilot cars are operated.

Payment111.90 General:

(a) Pay items - The accepted pay quantities, measured as provided in 111.80 through 111.88, will be paid for at the contract lump sum amount, or contract unit price per unit of measurement, for each of the respective pay items listed in the Bid Schedule. Payment will be full compensation for furnishing, installing, moving, operating, maintaining, and removing the materials and devices, and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work as specified except as covered in 111.90(b).

Tubular markers damaged by public traffic and replaced by the Contractor will be included in payment in 111.90(b). All other devices damaged by public traffic and replaced by the Contractor, except those excluded in 111.80(a), will be paid for at the contract unit price for the respective pay items listed in the Bid Schedule. Payment will be made only under the following conditions:

- It is ordered by the Engineer
- The replacement devices are used on the project.
- The damaged devices are disposed of to the satisfaction of the Engineer.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

No separate or additional payment will be made for the following:

- Moving and reinstalling signs, barricades, attenuators, plastic drums, delineators, sequential arrow signs, and portable changeable message signs required by stage construction.
- Providing TCM, including flaggers, used at material sources and disposal sites that are outside the contract limits, unless specifically called for in the plans or specifications.
- Providing portable signs when only minor work is required as indicated in 111.41(f).

111.90(b) Temporary Protection and Directional Measures for Traffic

Payment for all signs, specified barricades, fencing and all other protective and warning devices will be made at the contract lump sum amount for the item "Temporary Protective and Directional Measures for Traffic."

No separate measurement or payment will be made for temporary sign covers as payment therefrom will be included in payment for the item "Temporary Protective and Directional Measures for Traffic."

Payment for the above shall be understood to be full and complete payment for furnishing all labor, materials, tools, equipment, supplies, and for other costs to complete the work as specified.

111.91 Temporary Signing - The pay items for temporary signing and appurtenances will be as follows:

<u>Item Reference</u>	<u>Pay Item</u>	<u>Unit of Measurement</u>
(a)	Temporary Signs	Sq. Ft.
(b)	Oversize Advance Construction Signs	Each
(c)	Amber Flashers	Each

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

Payment for item (a) will be full compensation for signs regardless of type, flags, and posts or other supports.

Payment for item (b) will be full compensation for signs, flashers, and floodlights.

Payment for item (c) will be full compensation for the flashers.

111.92 Temporary Barricades, Guard Rail, Barrier, and Attenuators - The pay items for temporary barricades, guard rail, barrier, and attenuators will be as follows:

<u>Item Reference</u>	<u>Pay Item</u>	<u>Unit of Measurement</u>
(a)	Temporary Barricades	Each
(b)	Temporary Guard Rail, Type <u> * </u>	Lin. Ft.
(c)	Temporary Guard Rail, Type <u> * </u> , Reflectorized	Lin. Ft.
(d)	Temporary Concrete Barrier	Lin. Ft.
(e)	Temporary Concrete Barrier Reflectorized	Lin. Ft.
(f)	Moving Temporary Concrete Barrier	Lin. Ft.
(g)	Temporary Impact Attenuators	Each

* The applicable type will be inserted with a separate pay item for each type.

Payment for items (a) and (g) will be full compensation for each device, regardless of size.

Payment for items (b), (c), (d), and (e) will be full compensation for the devices.

Payment for item (f) will be full compensation for moving temporary concrete barriers from one location of actual use to another, including removing and replacing reflectors on the barriers, as necessary.

111.93 Temporary Traffic Delineation - The pay items for temporary traffic delineation will be as follows:

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

<u>Item Reference</u>	<u>Pay Item</u>	<u>Unit of Measurement</u>
(a)	Temporary Plastic Drums	Each
(b)	Temporary Delineators	Each
(c)	Temporary Reflective Pavement Markers . . .	Each
(d)	Temporary Striping.	Lin. Ft.
(e)	Stripe Removal.	Lin. Ft.
(f)	Striping and Stripe Removal Mobilization. .	Each

Payment for items (a) and (b) will be full compensation for the devices.

No separate payment will be made for temporary delineators used to delineate the pavement edge because of edge line obliteration. Payment will be included in payment made for the item "Temporary Protection and Direction of Traffic."

Payment for item (c) will be full compensation for temporary pavement markers having either one or two reflective faces.

Payment for items (d) and (e) will be full compensation for all materials and work as specified. No separate payment will be made for furnishing, placing, removing, and disposing reflectorized striping tape.

Overrun of the quantities of items (d) and (e) shown in the Bid Schedule will be paid for as Extra Work (109.07) up to, but not more than, the contract unit price.

Payment for item (f) will be full compensation for each time the Contractor mobilizes as required for striping and stripe removal.

111.94 Temporary Illumination - Payment for the item "Temporary Illumination", will be made at the contract lump sum amount and will be full compensation for all required materials called for by the plans, specifications, special provisions, and for minor adjustments not requiring disassembly.

111.95 Temporary Traffic Signals - Payment for the item "Temporary Traffic Signal Installation," will be made at the contract lump sum amount and will be full compensation for all required materials called for by the plans, specifications, special provisions, and for minor adjustments not requiring disassembly.

SECTION 111 - WORK ZONE TRAFFIC CONTROL Cont'd

111.96 Temporary Electrical Signs - The pay item for electrical signs will be as follows:

<u>Item Reference</u>	<u>Pay Item</u>	<u>Unit of Measurement</u>
(a)	Sequential Arrow Signs	Each
(b)	Portable Changeable Message Signs.	Hour

Payment for items (a) and (b) will full compensation for the signs and supports.

111.97 Flaggers - Payment for the item "Flaggers", will be full compensation for flaggers as specified, including payment for all special apparel, flagging equipment, two-way radios, and illumination for night use.

Workers performing flagging duties who are not properly equipped or attired will not be considered to be flaggers and will not be eligible for payment under this item.

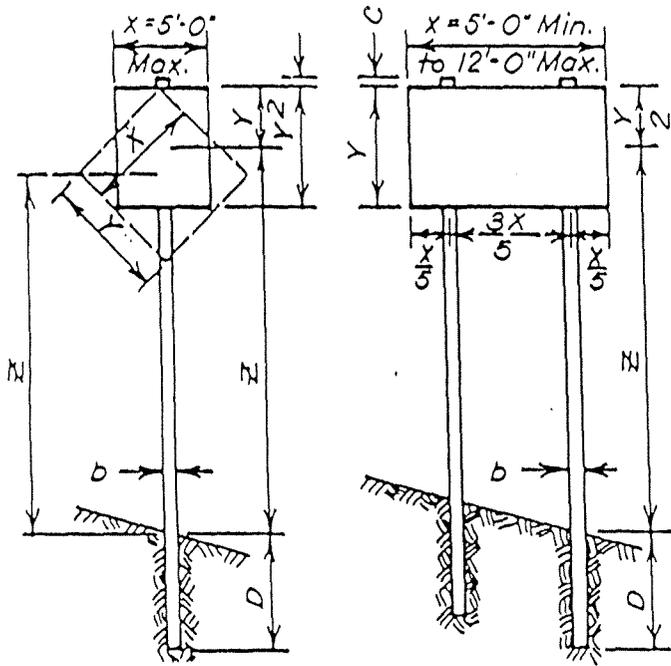
Flaggers performing work other than flagging will not be considered flaggers and will not be eligible for payment under this item.

Overrun of the number of flagger hours shown in the Bid Schedule will be paid for as Extra Work (109.07) up to, but not more than, the contract price.

When the bridge is closed to vehicular and pedestrian traffic during authorized bridge closure, the Contractor shall station, at locations acceptable to the Engineer, two persons, one on each side of the drawspan, whose sole responsibilities will be to prevent errant vehicles or pedestrians from passing.

111.98 Pilot Cars - Payment for the item "Pilot Cars", will be full compensation for fully operated pilot cars, two-way radios, the "PILOT CAR FOLLOW ME" signs, the rotating amber light mounted on the pilot car, and all other incidental costs.

Overrun of the number of pilot car hours shown in the Bid Schedule will be paid for as Extra Work (109.07) up to, but not more than, the contract unit price.



X and Y are the dimensions of the rectangle enclosing all the signs.
 Z is the height from ground line to the midpoint of the sign rectangle at the longest post.
 D is the minimum post embedment depth.
 b is the smaller dimension of the post.
 c = 3" ± 1". Flat or roofed top is optional.
 For horizontal and vertical clearances refer to 111.41. (C-1) of the Supplemental Standard Specifications.

POST SIZE	(X)(Y)(Z) in Ft ³		
	NO. OF POSTS	1	2
4" x 4"	110	220	4'-0"
4" x 6"	280	560	5'-0"

POST SELECTION

Given a sign 6ft. wide and 3ft. high mounted 10.5 ft. above the ground. X = 6, Y = 3, Z = 12;
 (X)(Y)(Z) = 216

Use two 4" x 4" posts.

Values shown in the table for the product X·Y·Z are the maximum permitted.

* Increase Post Imbedment depth when poor soil conditions warrant.

TEMPORARY SIGNS POST SIZE

SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS202.01 Scope

Delete this subsection and insert the following:

Areas of concrete removal and prescribed action:

1. FIXED SPANS

- A. Typically remove 1/2" concrete overlay on sidewalks for a width of approximately 6'-11" as shown on the plans. Light poles, signing posts, signal supports and similar items to remain.
- B. Adjacent to Piers 1 and 4: Remove sidewalks to full depth within limits shown on plans.
- C. Edge Beams and Underneath Sidewalks: At cracks and spalls, remove all deteriorated concrete to sound substrate.
- D. Adjacent to Piers 1 and 4: Remove temporary steel supports and appurtenant items if directed by Engineer following rehabilitation of the adjacent bearing supports.

2. LIFT SPANS

- A. Remove light poles. Terminate and secure power source from nearest junction box. Provide wiring and conduit in new sidewalk. Reinstall light poles and connect power after new sidewalks are cast.
- B. Remove metal handrail. Blast clean in conformance to Steel Structure Paint Council Specification SSPC-SP7 and paint metal railing. Blast clean rusting areas, paint per maintenance painting steel structures.
- C. Remove sidewalk completely along with top of curb to the limits shown on the plans.

SECTION 202 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS Cont'd

- D. Inlets, 4 places: Sawcut roadway deck and remove concrete to allow inlet placement.
- 3. PIERS 2 and 3
 - A. Remove 1/2" concrete overlay on sidewalks.
- 4. The concrete removal operations listed above shall not damage the existing rebars with the exception of the wire mesh in the lift span sidewalk, or any wires, conduits and utility lines that are embedded in the concrete, in the adjacent areas and below the deck. The Contractor shall be responsible for any damages caused by his operations and shall repair all damages to conform to the original condition.

202.31 Area of Work and General Requirements - Add the following:

Equipment - The existing sidewalk areas as shown on the plans shall be removed by any method the Contractor chooses but subject to the approval of the Engineer.

202.81 Lump Sum Basis - Delete this subsection202.82 Separate Item Basis - Add the following:

1. FIXED SPANS

- A. Removal of 1/2" Concrete Overlay will be measured for payment by the square yard.
- B. Adjacent to Piers 1 and 4: "Sidewalk Removal" (complete slab removal) will be measured for payment by the cubic yard.
- C. Edge Beams and Underside of Sidewalks: Removal of spalled concrete will be incidental to "Epoxy Mortar Patching".
- D. Temporary support steel member removals will be incidental to "Sidewalk Removal".

SECTION 202 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS Cont'd

2. LIFT SPANS

- A. Light pole removal and replacement, in working order, will be incidental to "Sidewalk Removal".
- B. Metal rail removal, reinstallation, cleaning and painting will be measured for payment by the linear foot.
- C. "Sidewalk Removal" will be measured for payment by the cubic yard.

1. NOTE: During this time of sidewalk removal, prior to the 5 day closure, the lift span must be ready at all times for minimum notice opening. The Contractor must compensate for the weight of sidewalk and railing removed by adding weight to the lift span. The method of adding weight is optional but must be approved by the Engineer. The task of adding weight will be incidental to Sidewalk Removal.

- D. Inlets: Concrete removal will be incidental to "Deck Drain Assembly"

3. PIERS 2 and 3

- A. Removal of 1/2" Concrete Overlay will be measured by square yard.

202.91 Lump Sum Basis – Delete this subsection.

The accepted pay quantities for the separate pay items listed above will be paid for at the unit price per unit measured which price and payment shall be full compensation for all work performed, and materials furnished, plus all labor, tools, equipment, and incidental cost necessary to complete the work as specified.

SECTION 504 - STRUCTURAL CONCRETE504.31 Classes of Concrete - Add the following:

Concrete Class 4000 - 3/4 (modified) as approved by ODOT mix design. This concrete is to be cast for the fixed span sidewalk decks adjacent to Piers 1 and 4.

504.51(b) Roadway and Sidewalk Finish - Add the following:

The top surface of the new sidewalk shall have a light broom finish normal to the existing sidewalk curb. Top of sidewalk shall be sloped to match grade of grating overlay.

SPECIAL CONCRETE

Scope - Special Concrete shall be applied as a filler to the steel grating overlay on the fixed span sidewalks as indicated on the drawings. See section "Epoxy Bonding Coat" for construction sequence and application.

Special Concrete shall have a design strength of 3300 psi in 28 days.

General - Special Concrete shall meet all provisions of Section 504 - Structural Concrete of the Standard Specifications, except for the size of aggregate. The maximum size of course aggregate shall not exceed 3/8" and shall meet the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing (by weight)</u>	
	<u>Min.</u>	<u>Max</u>
3/8"	100	
No. 4	20	60
No. 30	0	10
No. 200	0	3

Payment - Special Concrete shall be measured and paid for by the cubic yard and shall be understood to include full compensation for furnishing and placing the concrete, including all labor, equipment, tools, and incidental costs necessary to complete the work.

SECTION 504 - STRUCTURAL CONCRETE Cont'd

LATEX-MODIFIED CONCRETE

Scope - This work shall consist of furnishing and placing latex-modified concrete for the lift span sidewalks and overlaying of pier sidewalks.

Materials - All materials shall be furnished, placed and finished in conformance with Section 504 of the Standard Specifications supplemented and/or modified as follows:

On page 299 of the Standard Specifications delete the test for "Consistency.....AASHTO T 183."

The friable particles tests to be made on aggregates to be used in portland cement concrete as set forth in Subsection 703.01 and 703.02 of the Standard Specifications, as herein modified, will be made in conformance to the requirements of OSHD TM 221.

In Subsection 703.01(c) change the limit for friable particles from 3 percent to 1.5 percent maximum.

In Subsection 703.02(c) change the limit for friable particles from 2 percent to 1 percent maximum.

The portland cement shall be Type I or II, with a 7-day design strength of not less than 4,000 psi with a minimum compressive strength of 2,000 psi reached prior to opening the lift span. The temperature of the cement shall not exceed 100 degrees F just prior to mixing.

Fine aggregate shall have a sand equivalent of not less than 75.

Course aggregate shall meet the following gradation requirements:

<u>Sieve Size</u>	<u>Percent Passing (by weight)</u>	
	<u>Min.</u>	<u>Max</u>
3/4"	100	
1/2"	85	100
3/8"	20	50
No. 4	0	10
No. 200	0	1.5

SECTION 504 - STRUCTURAL CONCRETE Cont'd

If gravel is used in the production of aggregate for the latex-modified concrete, the material shall contain in each designated separate size not less than 60 percent (by weight) of fragments which have at least one fractured face produced by mechanical crushing.

That portion of the aggregate retained on a No. 4 sieve will be known as coarse aggregate and shall be crushed rock or crushed gravel. The coarse aggregate shall contain not more than 10 percent (by weight) of flat elongated pieces having a maximum dimension greater than three times its minimum dimension.

Formulated latex admixture shall be a nontoxic, film forming, polymeric emulsion in water to which all stabilizers have been added at the point of manufacture and shall be homogeneous and uniform in composition.

The latex modifier may be Dow Concrete Modifier A, Dylex 1186 by Tex-crete or Tylac 97-314 by Reichold Chemical.

Other latex emulsions will be acceptable if they meet the prequalification requirements specified in Report FHWA-RD-78-35, "Styrene-Butadiene Latex Modifiers for Bridge Deck Overlay Concrete", April 1978.

The Contractor shall submit to the Engineer certification from the manufacturer stating that each batch of the product furnished for use in the latex-modified concrete is identical to that tested and approved by the FHWA Fairbanks Laboratory.

Latex admixture to be stored shall be kept in suitable enclosures which will protect it from freezing and from prolonged exposure to temperatures in excess of 85 degrees F. Containers of latex admixture may be stored at the bridge site for a period not to exceed 10 days.

The latex modified concrete for resurfacing of bridge decks shall be a workable mixture having the following properties or limits:

SECTION 504 - STRUCTURAL CONCRETE Cont'd

<u>Material or Property</u>	<u>Quantity</u>
Cement content, sacks/cu.yd.	7.0
Latex emulsion admixture, gal./sack	3.5
*Water, gal./sack max. (incl. moisture in aggregate)	2.0
Air content, percent of plastic mix	3-6
**Slump, inches	3-5
Percent fine aggregate as percent of total aggregate by weight	45-50

NOTE: *The Contractor shall maintain positive control of the amount of moisture in the fine aggregate and must be able to report to the Engineer at any time the moisture content within + 0.5%. The water added shall be adjusted to control the slump within the prescribed limits and should produce net water-cement ratios of 0.29-0.33 by weight. Nonsolids in latex shall be included in calculation of water-cement ratio as water.

**The slump shall be measured 4 to 5 minutes after discharge from the mixer.

Mixing, Placing and Finishing Concrete - shall conform to Section 504 of the Standard Specification except for the following:

The mixer shall be self-propelled and shall be capable of carrying sufficient unmixed dry bulk cement, sand, coarse aggregate, latex modifier and water to produce on the site not less than 6 cubic yards of concrete per batch.

The mixer shall be capable of positive measurement of cement being introduced into the mix. A recording meter visible at all times and equipped with a ticket print-out shall indicate this quantity.

SECTION 504 - STRUCTURAL CONCRETE Cont'd

The mixer shall provide positive control of the flow of water and latex emulsion into the mixing chamber. Water flow shall be indicated by flow meter and shall be readily adjustable to provide for minor variations in aggregate moisture.

The mixer shall be capable of being calibrated to automatically proportion and blend all components of indicated composition on a continuous or intermittent basis as required by the finishing operation, and shall discharge mixed material through a conventional chute directly in front of the finishing machine. Sufficient mixing capacity or mixers shall be provided to permit the pour to be placed without interruption.

Placing and finishing equipment shall include hand tools for placement of concrete and for working down to approximately the correct level for striking off with the screed. Manual type screeds or metal plates with approved electric vibrators attached shall be used to consolidate and finish the smaller area. The top surface shall have a light broom finish normal to the sidewalk curb.

The Contractor shall be solely responsible for any and all damage to sidewalk finishes caused by vandalism or mischief. Damaged sidewalk sections with unsightly surface defects shall be removed and replaced. No additional payment for the costs of this work will be made.

For the sidewalk overlay work at Piers 2 and 3, the prepared sidewalk surface shall be wetted with potable water just prior to the placement of the 1" Latex-Modified Concrete.

No latex-modified material shall be placed at temperatures lower than 45 degrees F. It may be placed at 45 degrees F when rising temperature is predicted and then only if and until the prediction indicates 8 hours over 45 degrees F for the curing period. Concrete shall not be placed at temperatures above 85 degrees F.

In case of delay in the placement operation exceeding one hour in duration an approved construction joint shall be formed by removing all material not up to finish grade and sawing the edge in a straight line. During minor delays of one hour or less, the end of the placement may be protected from drying with several layers of wet burlap.

SECTION 504 - STRUCTURAL CONCRETE Cont'd

The density of the plastic concrete mixture shall be at least 98 percent of the standard rodded unit weight determined in accordance with AASHTO T 121.

The Contractor shall be responsible for adequate precautions taken to protect freshly placed concrete from rain. The Engineer may order removal of any concrete material damaged by rainfall.

CURING CONCRETE

The surface shall be promptly covered with a single layer of clean, presoaked wet burlap as soon as the surface will support it without deformation. It is the nature of the latex modifier to form a plastic film at the surface upon drying, possibly within 15 minutes in hot, dry weather. It is the intent of this specification that this film be protected from drying and cracking by prompt covering with wet burlap.

Within one hour of covering with wet burlap, a layer of 4-mil polyethylene film shall be placed on the wet burlap and the surface cured for 24 hours. The curing material shall then be removed for an additional 72 hours air cure. Wet burlap-polyethylene sheets may be substituted for the polyethylene film with the approval of the Engineer but shall not replace the initial wet burlap.

NOTE: Placing the latex Modified Concrete and curing it to the extent required for lift span opening will be scheduled during the 5 day closure periods set forth in Section 105 herein. The minimum curing time for any portion of the concrete prior to opening the lift span shall be 48 hours.

PAYMENT

Latex Modified Concrete will be measured and paid for by the cubic yard.

Payment will include full compensation for all work performed, and materials furnished, plus all labor, tools, equipment, and incidental cost necessary to complete the work as specified.

SECTION 510 - STEEL STRUCTURES

510.01 Scope - Delete this subsection and insert the following:

This work shall consist of furnishing, fabricating and erecting a structural steel (A-36) channel, a "L" member and 4 each 16 x 36 wide flange members and miscellaneous steel members as required by plans and these specifications.

This work also includes the installation of an L4x3x1/4 angle to the lift span curb beams as shown on the plans.

This work shall be performed in conformance with these specifications and in reasonably close conformity to the lines, grades and dimensions shown on the plans or established by the Engineer.

510.11 Materials - Add the following:

Subject to approval of the Engineer, rolled shapes having equal or greater section properties may be substituted in lieu of members specified on the plan. All steel shall comply with ASTM A 36 specifications.

510.39 Welding - Add the following:

The welding shall be performed by a prequalified welder in accordance with the current issue of the State of Oregon Standard Specifications for welded highway bridges required for the base metals of ASTM A-36 Steel. Only the low-hydrogen type electrodes shall be used. Preheating shall not be required in the welding process. Surfaces and edges to be welded shall be free from loose or thick scale, slag, rust, paint, moisture, grease and any other material that would prevent proper welding or produce objectionable fumes. The Contractor shall provide the Engineer with a list of certified welders at the preconstruction conference.

In the event the existing steel members in the lift span are not weldable, threaded shear studs are to be used as indicated on the drawings.

SECTION 510 - STEEL STRUCTURES Cont'd510.84 Estimated Quantity and Payment

The estimated quantity of structural steel required to complete the project is approximately 6040 pounds. All anchor bolts are incidental to "Structural Steel A36".

Structural Steel shall be paid for in pounds and shall be understood to include full compensation for fabrication and erection, including all labor, equipment, tools, and incidental costs necessary to complete the work.

STEEL GRATING

Scope - Steel grating is used in conjunction with Special Concrete on the fixed spans sidewalks to provide an overlay 1" thick. See section on "Epoxy Bonding Coat" for construction sequence and application.

Material - W-19-4; bearing bar size = 1" x 3/16" and spaced at 1 3/16" on center as manufactured by Grating Fabricators, Inc. or approved equal. All grating shall be hot-dipped galvanized.

Application - Grating shall be layed down in a manner such that adjoining pieces are smooth and level with respect to each other.

Payment - Standard steel grating will be measured and paid for by the square foot. The Epoxy Bonding Coat will be incidental to the item "Steel Grating".

Payment will include full compensation for all work performed and materials furnished, plus all labor, tools, equipment, and incidental cost necessary to complete the work as specified.

STEEL FORM DECK

Material - Steel form deck shall be 1.5C18 as manufactured by Vulcraft or approved equal. If a different manufacturer's product is used, the total weight of the concrete plus the form shall be 37.5 psf plus or minus 5 percent. All form deck shall be galvanized using a G-90 finished coating.

SECTION 510 - STEEL STRUCTURES Cont'd

Shear Stud Connectors - Shear stud connectors shall be welded in accordance with the OSHD Standard Specifications for Welded Highway Bridges issue of July, 1982.

Application - Galvanized surfaces that are abraded or damaged shall be repaired by thoroughly wire brushing the damaged areas and removing all loose and cracked coating, after which the cleaned areas shall be painted with Epoxy paint as specified under "Maintenance Painting Steel Structures".

Payment - Steel form deck will be measured and paid for by the square foot. All shear studs are incidental to the item "Steel Form Deck".

Payment will include full compensation for all work performed, and materials furnished, plus all labor, tools, equipment, and incidental cost necessary to complete the work as specified.

EPOXY INJECTION

Work performed in this section shall consist of, but not necessarily be limited to, epoxy injection of cracks located in the edge beams and any additional cracks as indicated by the Engineer.

Materials and procedures shall conform to the following requirements or an approved equal, and shall be in agreement with the manufacturer's written recommendations. The manufacturer shall be present or have his representative or prequalified Applicator present at all times during the injection process.

GENERAL

Scope - The contractor or his subcontractor shall furnish all materials, tools, equipment, appliances, transportation, labor and supervision required to repair delamination by the injection of an epoxy resin adhesive.

SECTION 510 - STEEL STRUCTURES Cont'd

Prequalification

- A. Applicator's Qualifications. Epoxy injection shall be performed by a certified applicator of the Structural Concrete Bonding Process, or he shall be certified in a process that is equal in method and intent.

Prior to doing any work, the applicator shall provide to the Engineer a copy of his certificate for the successful completion of the required training courses from the manufacturer.

- B. Workman's Qualification. As a minimum, Contractor's/Subcontractor's Field Supervisor, who directs the epoxy injection process, shall have satisfactorily completed a program on instruction in the methods of restoring concrete structures and beams utilizing the specific epoxy injection process indicated. The curriculum shall include theory on the nature and causes of delaminations in concrete, methods for permanently repairing damaged structural members, the technical aspects of correct material selection and use, and the operation, maintenance and trouble-shooting of equipment. Proof of attendance shall be submitted to the County.

SECTION 510 - STEEL STRUCTURES Cont'dMATERIALS AND EQUIPMENT

Epoxy Resin Adhesive for Injection

MATERIAL SPECIFICATIONS
EPOXY INJECTION OF CRACKS WITH SURFACE WIDTH OF
.010" AND LARGER IN AREA AS SHOWN ON PLANS

Material for work performed at 50 degrees F or above and cracks .010" and larger.

<u>Viscosity</u> -	Part A @ 77° F ± 3° F	Brookfield RVT Spindle No. 2 @ 20 rpm	700 cps max
-	Part B @ 77° F ± 3° F	Brookfield RVT Spindle No. 2 @ 20 rpm	240 cps max
<u>Potlife</u> -	60 gm mass @ 77° ± 3° F		13-25 min.
<u>Compressive Yield Strength</u> -	7 days @ 77° F ± 3° F	ASTM D 695	11,000 psi min.
<u>Slant Shear Strength</u> -	1 day @ 77° F ± 3° F	AASHTO T 237	5,000 psi min.
<u>Heat Deflection Temperature</u> -	7 days @ 77° F ± 3° F	ASTM D 648	130° F min.

Surface Seal

- A. Description - The surface seal material is that material used to confine the injection adhesive in the delamination fissure during injection and cure. The material shall meet the manufacturer's recommendations.

SECTION 510 - STEEL STRUCTURES Cont'd

- B. Properties - The surface seal material shall have adequate strength to hold injection fittings firmly in place and to resist injection pressures adequately to prevent leakage during injection.

Pins

- A. Threaded pins are recommended (such as ASTM A-36 steel 3/8 inch diameter) and shall be free of loose and/or deleterious substances; i.e. rust, grease, mill scale etc....galvanized bolts shall not be used.

Equipment for Injection

- A. Type - The equipment used to meter and mix the two injection adhesive components and inject the mixed adhesive into the delamination shall be portable, positive displacement type pumps with interlock to provide positive ratio control of exact proportions of the two components at the nozzle. The pumps shall be electric or air powered and shall provide in-line metering and mixing.
- B. Discharge Pressure - The injection equipment shall have automatic pressure control capable of discharging the mixed adhesive at any pre-set pressure up to 200 psi plus/minus 5 psi and shall be equipped with a manual pressure control override.
- C. Ratio Tolerance - The equipment shall have the capability of maintaining the volume ratio for the injection adhesive prescribed by the manufacturer of the adhesive within a tolerance of plus or minus 5 percent by volume at any discharge pressure up to 200 psi.
- D. Automatic Shut-Off Control - The injection equipment shall be equipped with sensors on both the component A and B reservoirs that will automatically stop the machine when only one component is being pumped to the mixing head.

SECTION 510 - STEEL STRUCTURES Cont'dEXECUTION OF WORKPreparation

- A. Surfaces adjacent to delamination or other areas of application shall be cleaned of dirt, dust, grease, oil, efflorescence or other foreign matter detrimental to bond of the epoxy injection surface seal system(s). Acids and corrosives shall not be permitted for cleaning.
- B. Entry ports shall be provided along the delamination at a geometric grid interval. Spacing of entry ports will vary depending on size, width and depth of the delamination.
- C. Surface seal material shall be applied to the face of the delaminated or other areas of application between the entry ports as needed. For through cracks associated with delamination a surface seal shall be applied to both faces.
- D. Enough time for the surface seals material to gain adequate strength shall pass before proceeding with the injection.
- E. The pins shall be set in accordance with epoxy injection material manufacturers recommendation. A rotary impact drill shall be used to drill holes 1/4" to 3/8" larger than pin size.

Epoxy Injection

- A. On a grid pattern (spacing of grid ports depends on size and overall thickness of delaminated area.) Injection of epoxy adhesive shall begin at lower entry port and continue until there is an appearance of epoxy adhesive at the next entry port adjacent to the entry port being pumped.
- B. When epoxy adhesive travel is indicated by appearance at the next adjacent port, injection shall be discontinued on the entry port being pumped, entry port plugged, and epoxy injection shall be transferred to next adjacent port where epoxy adhesive has appeared.

SECTION 510 – STEEL STRUCTURES Cont'd

- C. Perform epoxy adhesive injection continuously until delaminations are completely filled.
- D. If port to port travel of epoxy adhesive is not indicated, the work shall immediately be stopped and the Engineer notified.
- E. The Engineer may stop the injection process at any time.

Finishing

- A. When the delaminations are completely filled, the epoxy adhesive shall be allowed to cure for sufficient time to allow removal of surface seal without any draining or runback of the epoxy material from delaminations and/or associated cracks.
- B. Surface seal material and injection adhesive runs or spills shall be removed from the surfaces.
- C. The surface area shall be finished flush to the adjacent concrete showing no indentations or protrusions caused by the placement ports.
- D. Filling of Field Control Testing Core Holes. This procedure consists of using two-component bonding agent applied to surfaces of cored holes followed by application of grout mix placed by hand trowel, thoroughly rodded and tamped in place, and finished to match color, finish and texture of existing concrete to the satisfaction of the Engineer. Materials and procedures for filling testing core holes shall be submitted to and approved by the Engineer before proceeding with this work. Filling testing core holes shall be at the Contractor's expense.

Field Quality ControlA. Core Testing

- 1. Initial Cores: The contractor/subcontractor shall obtain three 2" diameter initial core samples in the first two hundred square

SECTION 510 - STEEL STRUCTURES Cont'd

feet of delamination repaired and one core for each two hundred square feet thereafter. The cores shall be for full depth of the delamination and taken from locations as selected by the Engineer. Additionally, the Contractor/subcontractor shall provide at no additional expense to the county the following labor, materials, and services required for core sampling and testing as directed by the Engineer, including but not limited to:

- a. Preparation, handling, storage and transportation of epoxy injection concrete core test specimens as directed by the Engineer.
 - b. Providing suitable containers for the storage, curing and transportation of test specimens.
 - c. Providing suitable storage for supply of test equipment and other items required for sampling and testing.
2. Initial cores will be tested to determine degree of epoxy penetration and bond strength.
 3. Testing of initial core samples will be performed by the county's representative at the county's expense.
 4. Additional cores, called verification cores, required as indicated in Paragraph 7.c herein, will be tested by the county at the Contractor's expense in accordance with a fee schedule established by the Engineer.
 5. Methods of Testing Initial and Verifying Cores
 - a. Penetration: Visual Examination
 - b. Bond Strength/Compression Test: Concrete failure prior to adhesive failure.
 6. Test Requirements
 - a. Penetration: A minimum of 90 percent of the delamination shall be full of epoxy adhesive.

SECTION 510 – STEEL STRUCTURES Cont'd

- b. Bond Strength: Concrete failure before adhesive failure, or 6,500 psi with no failure of either concrete or adhesive.

7. Evaluation and Acceptance of Tests

- a. If the initial cores pass tests as specified above, epoxy adhesive injection work at the area represented by the cores will be accepted.
- b. If initial cores fail either by lack of penetration or bond strength, the work shall not proceed further until the area represented by the cores are reinjected, and retested for acceptance.
- c. After re-work of areas represented by failed initial cores is complete, the contractor shall obtain verifying cores, the number and location to be determined by the Engineer. Verifying cores shall be tested in accordance with paragraphs 5 and 6 for compliance.

B. Pressure Test

- 1. Method. The mixing head of the injection equipment shall be disconnected and the two-adhesive component delivery lines shall be attached to the pressure check device. The pressure check device shall consist of two independent valved nozzles capable of controlling flow rate and pressure by opening or closing the valve. There shall be a pressure gauge capable of sensing the pressure build-up behind each valve. The valves on the pressure check device shall be closed and the equipment operated until the gauge pressure on each line reads a pressure specified by the Manufacturer. The pumps shall be stopped and the gauge pressure shall not drop a greater amount than that specified by the manufacturer within 3 minutes.
- 2. Frequency of Pressure Test. The pressure test shall be run for each injection unit at the beginning and after the meal break of every shift that the unit is used in the work of delamination repair.

SECTION 510 - STEEL STRUCTURES Cont'dC. Ratio Test

1. Method. The mixing head of the injection equipment shall be disconnected and the two adhesive components shall be pumped simultaneously through the ratio check device. The ratio check device shall consist of two independent valved nozzles capable of controlling back pressure by opening or closing the valve. There shall be a pressure gauge capable of sensing the back pressure behind each valve. The discharge pressure shall be adjusted to 160 psi for both adhesive components. Both adhesive components shall be simultaneously discharged into separate calibrated containers. The amounts discharged into the calibrated containers simultaneously during the same time period shall be compared to determine the volume discharged conforms to the manufacturers recommended ratio for the appropriate material.

D. Proof of Ratio and Pressure Test

1. At all times during the course of the work the Contractor shall keep complete and accurate records available to the Engineer of the pressure and ratio tests specified above.
2. In addition, the Engineer at any time without prior notification of the Contractor may request the Contractor to conduct the tests specified above in the presence of the Engineer.

Measurement and Payment

Measurement and payment for this work will be the unit price bid per lineal feet of crack for the item "Epoxy Injection" for the quantity used. The method of crack measurement shall be approved by the Engineer.

Payment at the contract prices per unit of measurement as above set forth shall be full compensation for furnishing and placing all materials, labor, tools, equipment, test corings and incidentals necessary to complete the work.

SECTION 510 - STEEL STRUCTURES Cont'dEPOXY MORTAR PATCHINGScope

Work performed in this section shall consist of, but not necessarily be limited to, epoxy spall patching on, edge beams, underneath fixed span sidewalks, and at other locations as directed by the Engineer.

Materials

The Epoxy Patching Mortar shall be composed of the following components:

1. Epoxy Resin Binder
2. Wear Surface Aggregate

The epoxy resin binder shall be a light colored 100% solids, two component, flexible, thermosetting, moisture insensitive material. It shall have an excellent resistance to ultraviolet radiation, as well as excellent toughness, abrasion resistance, bond strength, and waterproofing properties. The epoxy resin binder shall have the following physical properties at an age of seven (7) days or as otherwise noted.

<u>Physical Properties</u>	<u>Test Method</u>	<u>Required Value</u>
Pot Life	AASHTO-T-237	10 to 30 minutes
Tensile Strength	ASTM-D-638	1500 PSI Minimum
Tensile Elongation	ASTM-D-638	40% Minimum
Compressive Strength	ASTM-D-695	4000 PSI Minimum
Viscosity CPS	ASTM-2395 RVT	1200-2500 CPS
Bond Test **	ACI-503 R	100% Failure in Concrete
Tensile Modulus	ASTM-D-638	2.0 x 10 ⁴ PSI Maximum
Water Absorption Maximum %	ASTM-D-570	0.6 Maximum

**This is to test performances as prescribed by ACI-503R-Appendix A of the ACI Manual for Concrete Practice. The Tensile Bond Strength shall be greater than or equal to 250 PSI or a failure area, at a depth of 1/4" or more into base concrete, greater than 50% of the test area.

SECTION 510 - STEEL STRUCTURES Cont'dPreparation and Mixing

Areas to receive patching compound shall be free of dirt, grime, dust, grease, oils or any deleterious substances. At areas that contain reinforcement, the bars shall be blast cleaned for 1/2" around the perimeter in conformance with Steel Structures Painting Council Specification SSPC-6, "Commercial Blast Cleaning". The appearance of the blast cleaned surface shall closely approximate pictorial standard SA2 of ASTM D 220 (SSPC-Vis 1). The rebar shall then be epoxy painted. Areas to be patched shall be inspected and approved by the engineer prior to compound placement.

On the underside of the north sidewalks located above the 8 conduits, where normal preparation can't be accomplished, use the following procedure. Chip out loose concrete by hand, steel brush the rebar, epoxy coat it, and patch area with epoxy mortar.

The epoxy patching mortar shall be the material as specified under "material specifications." The epoxy resin must be mixed according to manufacturer's instructions. Prime the prepared substrate with neat epoxy resin. Brush out all puddled areas. To prepare the epoxy for depths up to 1/2" add three to four parts of oven dried silica sand 20/30 mesh to one part by volume of mixed epoxy resin. Continue mixing with a mechanical mixer until uniformly blended. For areas over 1/2" in depth, add one and one-half parts by volume pea gravel, and two parts by volume silica sand 20/30 mesh to one part by volume mixed epoxy resin. Pea gravel shall be 3/8" - 0 as produced by Lonestar Industries or approved equal. Continue mixing with mechanical mixer until uniformly blended.

Application

Apply epoxy mortar to beams and underside of sidewalks. Strike off with a screed and finish with a steel trowel.

Measurement and Payment

Measurement and payment for this work will be the unit price bid for "Epoxy Mortar Patching" per cubic feet, for the quantity used.

SECTION 510 - STEEL STRUCTURES Cont'd

Payment will include full compensation for all work performed, and materials furnished, plus all labor, tools, equipment, and incidental cost necessary to complete the work as specified.

REBAR SPLICING, EDGE BEAM

On fixed span edge beams where exposed rebar reveals a reduced cross section area that is less than 75% of the original cross section area, new additional reinforcing shall be spliced in. The existing concrete surrounding the bar shall be chipped out for a distance of 24 diameters on each side of the deteriorated rebar, as measured by the Engineer. A new rebar, equivalent in size, shall be spliced in and patched with epoxy mortar.

All "Rebar Splicing" extra work shall be approved by the Engineer and will be paid for on a force account basis.

SECTION 510 - STEEL STRUCTURES Cont'd

EPOXY BONDING COAT

Scope

Epoxy Bonding Coat is used to bond the steel grating and special concrete to the existing fixed span sidewalks. See sections "Steel Grating" and "Special Concrete" for additional information.

NOTE: Fixed span sidewalk overlay work is not to commence until Epoxy Injection and Spall Patching is complete.

Materials and Technical Properties

Specific Gravity		1.2		
Minimum Application Temperature		50°F		
Application Temperature Range		50-105°F		
		<u>@50°F</u>	<u>@77°F</u>	<u>@105°F</u>
Potlife				
1 quart	4.5 hr	75 min.	30 min.	
1 gallon	3.0 hr	70 min.	25 min.	
5 gallon	2.5 hr	60 min.	20 min.	
Viscosity				
Part A	660	120	90	
Part B	11.5	3.5	1.1	
Mixed	630	90	85	
Thin Film Open Time ¹	4 hr	2 hr	40 min.	
Thin Film Hard Dry Time	36 hr	10 hr-		
Thin Film Full Cure Time	14 days	7 days	3 days	

SECTION 510 - STEEL STRUCTURES Cont'dTYPICAL MECHANICAL PROPERTIES²

Tensile Strength, psi	4,000
Elongation at Break, % (ASTM D638)	2.5
Compressive Yield Strength, psi	9,300
Compressive Modulus, psi (ASTM D695)	4.0 x 10 ⁵
Heat Deflection Temperature, °F (ASTM D648)	127
Slant Shear Strength, psi Damp to Damp Concrete (AASHTO T-237)	>5,000 100% concrete failure
Flexural Bond Strength, psi, (ASTM C293)	570

-
- 1 From start of mixing to placement of new concrete
 - 2 Cure schedule 7 days @ 77°F; test temperature 77°F

Surface Preparation

Remove 1/2" concrete overlay by any method approved by the Engineer. The newly prepared surface shall be free of dirt, laitance, grease, or any foreign matter. Spalled areas requiring patching shall be patched in accordance with "Epoxy Mortar Patching" as directed by the engineer. Payment for this spall patching shall be on a force account basis.

Proportioning and Mixing

Mix only the amount of material that can be used before the expiration of the potlife. If the potlife and area to be bonded permit, mix the entire contents of the pre-proportioned units as supplied. If less than a unit size is used, first stir each component, then measure out portions of parts A & B

SECTION 510 - STEEL STRUCTURES Cont'd

in the proper volumetric ratio. Mix the components thoroughly using a slow speed (600 rpm) drill with a mixing paddle such as a Jiffy mixer or equal. Proper mixing will take from 3 to 5 minutes.

Application

The existing concrete surface shall be dry at the time of application. Apply the bonding agent with a brush, paint roller, squeegee, conventional spray or airless spray. The minimum bondline thickness shall be 20 mils. The bonding agent shall not be applied when the surface ambient temperature is above 80°F.

Immediately after the epoxy bonding agent is in place, the prefitted steel grating shall be laid down, followed by the application of a special concrete as specified herein. The grating and concrete shall be placed within the "open time" or while the bonding agent is still tacky. A manufacturer's representative shall be on site for the first application.

NOTE: It is essential that this application procedure be followed precisely, as a secure bond is critical to the performance of the steel grating overlay. The Contractor will be responsible for complying with the manufacturer's recommendations and the application procedure described herein.

Measurement and Payment

No separate payment shall be made for this item of work, it being expressly understood that this item of work is incidental to unit price bid for "Steel Grating".

MAINTENANCE PAINTING STEEL STRUCTURES

Scope - New structural channel and "L" members, wide flange members, metal handrail, and existing structural steel encompassing the repair shall be cleaned and painted with an oil alkyd painting system.

Existing paint damaged by Contractor's operations shall be repaired by the Contractor to the satisfaction of the Engineer. The required minimum limits of steel to be blasted and painted are listed in this section.

SECTION 510 - STEEL STRUCTURES Cont'd

Painting new and existing steel shall include the preparation of metal surfaces, the application, protection and drying of the paint coatings, and the supplying of all tools, tackle, scaffolding, labor and materials necessary for the entire work.

The existing paint system is an oil alkyd paint system. Extensive areas of rust, rust scale, loose and tight mill scale may be encountered.

The Contractor shall protect all road and river traffic, and all adjacent property from damage or disfigurement as a result of blasting and painting operations. The Contractor shall provide suitable protective devices as necessary.

Cleaning

Blast Cleaning - All steel surfaces to be painted shall be blast cleaned in conformance with Steel Structures Painting Council Specification SSPC-SP6 "Commercial Blast Cleaning." The appearance of the blast cleaned surface shall closely approximate Pictorial Standard Sa2 of ASTM D 2200 (SSPC-Vis 1).

The edges of existing paint remaining in place shall be feathered in cleaning and the area of overlap of new paint to old paint shall be thoroughly cleaned by solvent or other means so that a suitable bond between new paint and old occurs.

Portions of existing steel shall be blast cleaned for a minimum of 2" down from contact point with concrete. For example, 2" down channel backs", 2" on the under sides of channel flanges or other flanged members, including flange edges.

Field welds shall be blasted at least 2"-3" each side to remove weld blue scale prior to painting.

Blast cleaning shall be performed using an abrasive of a size which will produce a minimum profile of 1 mil on the surface of the finally cleaned steel. The maximum height of the profile shall be controlled by the Contractor by his cleaning methods, so as to produce a surface profile not considered to be detrimental to the performance of the coating.

SECTION 510 - STEEL STRUCTURES Cont'd

If wet sandblasting methods are employed, an effective rust inhibitor not detrimental to the coating system shall be applied to the freshly cleaned surface or contained in the water used in cleaning. At the commencement of work, the Contractor shall prepare a test panel to show that the rust inhibitor used does not cause loss of bond between the cleaned steel substrate and the primer. If such bond failure occurs, no further water blast cleaning will be allowed.

Surfaces cleaned by dry blast cleaning methods shall be primed on the same day as cleaned. Surfaces cleaned by wet blast cleaning methods shall be thoroughly dry before priming and shall be primed before any visible indication of rust formation.

Painting - Materials

(a) All paint supplied for this project shall conform to the following requirements. The various coats of paint shall be applied in thicknesses as hereinafter specified under "Painting - Application."

(a-1) Formulation

(a-1.1) Prime Coat - The formulation shall conform to Federal Specification "TT-P-645A Primer, Paint, Zinc-Chromate, Alkyd Type," contained hereinafter.

(a-1.2) First Base - The formulation shall be the same as TT-P-645A except that 4 pounds (dry powder weight) of Lampblack Tinting Materials shall be added per 100 gallons of paint.

(a-1.3) Second Base - The formulation shall be the same as TT-P-645A except that 10 pounds (dry powder weight) of Lampblack Tinting Materials shall be added per 100 gallons of paint.

(a.1.4) First Finish Coat - The formulation shall be the same as "Yellow Ochre," except that 4 pounds of Lampblack Tinting Material shall be added per 102 gallons of paint.

(a.1.5) Second Finish Coat - The formulation shall be that for "Yellow Ochre," contained herein.

SECTION 510 - STEEL STRUCTURES Cont'd

PRIME COAT

"TT-P 645A PRIMER, PAINT, ZINEC-CHROMATE ALKYD TYPE"

FORMULATION:

Pigment:	<u>Percent</u>	<u>Gallons</u>	<u>Pounds</u>
Zinc Chromate (TT-P 465, Type II)	47.50	9.80	282.2
Titanium (ASTM D 476, Type II)	11.00	1.87	65.5
Zinc Oxide (TT-P-463 Type I, Grade A)	14.20	1.80	84.5
Magnesium Silicate TT-P-403	26.80	6.80	154.8
Aluminium Stearate (Mil-A-15206)	<u>.50</u>	<u>.36</u>	<u>3.0</u>
	100.00		
 Vehicle:			
Alkyd Resin: (TTR-266, Type I or II)	70.00	53.42	416.7
Thinner (TT-T-291, Type I or II, Grade A)	28.90	25.20	172.0
Lead Drier (TT-D-643)	.60	.37	3.6
Colbalt Drier (TT-D-643)	.25	.19	1.5
Manganese Drier (TT-D-643)	<u>.25</u>	<u>.19</u>	<u>1.5</u>
	100.00	100.00	1,185.3

REQUIREMENTS:

Pigment	50.0% ± 1.0%
Vehicle	50.0% ± 1.0%
Non-volatile Vehicle	49.0% ± 2.0%
Weight per Gallon	11.5% min.
Viscosity	70-85 K U
Fineness	4

Pigment Analysis:

TiO ₂	10.0% min.
ZnO	30.5% min.
CrO ₃	19.5% min.

SECTION 510 - STEEL STRUCTURES Cont'd

YELLOW OCHRE

NOTE: For the first finish coat four (4) lbs. of lampblack ASTM D-209-47, shall be added per 102 Gallons.

Pigment:

Titanium dioxide (IT-T-425 Type 3)	32.39	30	2.29
Brown Iron Oxide (90% min. Fe _s O ₃)	12.15	30	.86
C.P. Med. Chrome Yellow	20.24	50	1.02
Burnt Umber (TTP-455)	10.12	25	.82
Yellow Iron Oxide (TTP=458)	8.10	20	.60
Calcium Carbonate (ASTM D1199-52T Type PC, or GC)	16.20	40	1.77
Aluminum Stearate (MIL-M-15206)	<u>.80</u>	<u>2</u>	<u>.24</u>
	100.00	247	7.60

Vehicle:

*Resin Solution (TT-R-266a, Type 3)	81.00	567	75.00
Thinner (TT-T-291a)	17.28	121	18.00
Lead Drier (TT-D-643)	1.00	7	.72
Cobalt Drier (TT-D-643)	.44	3	.37
Manganese Drier (TT-D-643)	.14	1	.13
Anti-Skinning Agent	<u>.14</u>	<u>1</u>	<u>.14</u>
	<u>100.00</u>	<u>700</u>	<u>94.19</u>
	TOTAL	947	101.79

* Resiin solution is supplied at 50% solids by weight.

Pigment % by weight of paint =	26.08%
Vehicle solids by weight of paint =	29.94%
Non-volatile by weight of paint =	56.02%
Weight per gallon =	9.30 pounds
Viscosity =	75 k.v. + 5 k.v.
Fineness =	5
Drying Time =	24 hours maximum

SECTION 510 - STEEL STRUCTURES Cont'd

(a-2) Manufacturing - All paint shall be prepared at the factory ready for application. The addition of thinner or other material to the paint after the paint has been shipped will not be permitted, except as recommended by the manufacturer and by permission of the Engineer.

Paint shall be homogeneous, free of contamination and of a consistency suitable for use in the capacity for which it is specified. The manufacturer shall include in the paints the necessary additives for control of sagging, pigment settling, leveling, drying, dryer absorption and skinning or other requisite qualities and satisfactory properties in all respects which affect its application and curing.

An unopened one-quart container of the finished paint, sampled at the factory at the time of paint containerizing, shall be furnished by the manufacturer to the OSHD Materials Laboratory for testing. One sample shall be furnished for each type of paint to be used. Check samples of finished paint as being applied will be taken at the jobsite as determined by the Engineer.

All tests will be conducted in accordance with the latest test methods of American Society for Testing and Materials, Federal Test Method Standard No. 141, and methods in use by the Oregon Department of Transportation Laboratory.

Application of paint will not be permitted until the paint has been approved by the Engineer.

(a-2.1) Tinting - All tinting materials required shall be added to the paint at the time of paint manufacture. Field tinting will not be allowed, except that near the completion of work and with the permission of the Engineer, small quantities of prime and first base coat paint may be field tinted to allow its use for succeeding coats to complete the work.

(a-2.4) Packaging - The finished paint shall be furnished in new round steel containers of not more than 6-gallon capacity and of metal not thinner than 0.024-inch nominal thickness. The containers shall have lug type crimp lids with ring seals and shall be equipped with ears and

SECTION 510 - STEEL STRUCTURES Cont'd

bails. The containers shall meet U.S. Department of Transportation Hazardous Material Shipping Regulations. The containers shall be lined if necessary to prevent attack by the paint. The lining shall not come off the can as skins.

All containers shall be labeled showing the exact title of the paint, the manufacturer's name, date of manufacture, the manufacturer's batch number, and the State specification number and lot number if appropriate.

Precautions concerning the handling and application of paint shall be shown on the label of paint and solvent containers.

(a-3) Sealant - Sealant for joints as defined in paragraph (b-4) hereafter shall be an industrial grade silicone sealer, General Electric Silicone Construction Sealant "Silpruf," GE SCS 2004, or approved equal. The color of sealant shall be either clear or "Burnside Bridge Deep Gold" to approximate the color of the finish paint. Polystyrene backing material shall be "Ethafoam" or approved equal, in sufficient diameter to fill the joint as required.

Painting - Application

(b) Description - All painting to be performed under this contract shall be performed in conformance with the best practices of the trade, in conformance with the recommendations of the coating manufacturer, and in conformance with applicable portions of the Steel Structures Painting Council Specification SSPC-PA 1, when those specifications are not in conflict with these Special Provisions.

(b-1) Number of Coats and Film Thickness - Paint shall be applied to the cleaned steel surfaces as follows:

<u>Coat</u>	<u>Formula</u>	<u>Minimum Dry Film Thickness</u>
Prime	TT-P-645A	1.5 mils approx.
1st Base	TT-P-645A Tinted	1.5 mils approx.
2nd Base	TT-P-645A Tinted	<u>1.5 mils approx.</u>
		4.5 mils subtotal
1st Finish	Burnside Bridge Yellow Ochre	1.5 mils approx.
2nd Finish	Burnside Bridge Yellow Ochre	<u>1.5 mils approx.</u>
		3.0 mils subtotal
		<u>7.5 mils total</u>

SECTION 510 - STEEL STRUCTURES Cont'd

(b-2) Paint Film Thickness - The thickness of all paint coats shall conform to the following requirements:

The paint system shall be applied in not less than four coats, each coat to the approximate thickness shown. A coat shall be considered to be as many applications as necessary to achieve the desired thickness.

Each prime, base or finish coat of paint specified shall be preceded by a preliminary, extra application of paint on all edges, corners, interior angles, seams, crevices, junctions of joining members, rivet or bolt heads, nuts and threads, weld lines, and similar surface irregularities. This preliminary application shall be sufficient thickness to completely hide the surface being covered, and shall be followed as soon as practical by the application(s) of the full prime or finish coat to its desired thickness.

Paint film thickness measurements will be made after the application of the second base coat and again after the application of the finish coat. One hundred percent of all thickness measurements shall be within the specified minimum dry film thickness for the prime and base coats and again for the total paint systems. Where thickness measurements fall below the specified minimum, additional applications of paint shall be made as necessary to meet the thickness required.

Film thickness shall be measured above the peaks of the profile of the anchor pattern in the substrate and shall include the thickness of previous coats.

Regardless of the total thickness of prime and intermediate coats, the finish coat shall be applied in sufficient thickness to achieve uniform and complete coverage and appearance.

(b-3) Application - The Contractor shall notify the Engineer, in writing, at least one week in advance of the date cleaning and painting operations are to begin.

SECTION 510 - STEEL STRUCTURES Cont'd

It is the intent of these specifications that each coat of paint be applied over the preceding coat as soon as possible, allowing for drying time for the preceding coat, weather and temperature conditions, and similar factors. The Contractor shall provide sufficient skilled workmen, equipment and materials and shall so schedule his work to conform with this intent.

Sufficient time shall elapse between successive coats to permit them to dry properly for recoating. Paint shall be considered dry for recoating when it feels firm, does not deform or feel sticky under moderate pressure of the finger, and the application of another coat of paint does not cause such film irregularities as lifting or loss of adhesion to the undercoat.

Paint shall be applied by air or airless spray, brush, roller or any combination of these methods. Rollers, when used, shall be of a type which do not leave a stippled texture in the paint film.

Each coat of paint shall completely cover the preceding coat and shall be tinted as hereinbefore specified so that skips and holidays can be easily detected. Runs, sags, skips, and holidays, or other deficiencies shall be considered evidence that the work is unsatisfactory and shall be corrected before application of succeeding coats. Such corrective work may require recleaning, application of additional paint, or other measures as directed by the Engineer at the Contractor's expense.

The surface of the paint being covered shall be thoroughly dry and free of moisture, dust, grease, or any other substance which would prevent the bond of succeeding applications. Blast cleaning will not be allowed in any area when dust or abrasive may settle on painted surfaces that are not thoroughly dry. Freshly painted surfaces shall be protected by the Contractor from contamination by abrasive dust or foreign materials from any source. Contaminated surfaces shall be cleaned to the satisfaction of the Engineer before any succeeding application of paint is made.

Mechanical mixers shall be used to mix paint. Prior to application, the paint shall be mixed a sufficient length of time to thoroughly mix the pigment and vehicle together.

SECTION 510 - STEEL STRUCTURES Cont'd

(b-4) Sealing - Insofar as practical, all crevices between structural shapes and plates shall be filled and sealed with paint. However, all crevices between structural shapes and plates and around rivet heads, bolt heads or nuts, and similar areas which would retain moisture and that cannot be filled with paint shall be filled with sealant. The sealant shall be applied after the final application of finish paint.

(b-5) Time of Painting - The prime coat shall be applied on blast cleaned surfaces as previously specified under cleaning. Unless prevented by drying time or weather conditions or as otherwise allowed by the Engineer, each succeeding intermediate or top coat shall be applied within 48 hours of the preceding coat.

In the event that the above time limits are exceeded, or if the surface becomes contaminated by any material other than rust at any time, the surface shall be cleaned in a manner satisfactory to the Engineer before the succeeding application of paint is made.

If the surface becomes contaminated by rust at any time, the contaminated area shall be blast cleaned as previously specified and repainted with all previous coats. Recleaning and repainting shall be at the Contractor's expense.

(b-6) Weather Conditions - Paint shall be applied only during periods of favorable weather. Painting will not be allowed when the atmospheric temperature is at or below 40°F or when the ambient or temperature of the steel is less than 5°F above the dew point. No painting will be allowed if the Engineer determines that weather conditions would be detrimental to proper application of paint. If fresh paint is damaged by the elements it shall be replaced or repaired by the Contractor at his expense.

(b-7) Inspection - Each phase of cleaning and painting shall be inspected by the Engineer and approved by the Engineer before succeeding phases are commenced by the Contractor. The Contractor shall provide the inspector access to all areas where work is being performed.

SECTION 510 - STEEL STRUCTURES Cont'd

The surface of cleaned steel shall be approved before the first application of paint is made, and each coat of paint shall be inspected for conformance to specifications before succeeding coats are applied.

(b-7.1) Instruments - Surface preparation and paint film thickness instruments and equipment used for measuring and inspecting may include but are not limited to the following:

<u>Instrument</u>	<u>Manufacturer</u>
Surface Preparation:	
SSPC Vis 1 Pictorial Standards ASTM D 2200 Pictorial Stds. Surface Profile Comparator	Steel Structures Painting Council Amer. Soc. for Testing Material Kenneth Tator Associates
Magnetic Dry Film Gages: (Pull-off Type)	
Microtest 102 FIM Elkometer Inspector III	DeFelsko, KTA Elkometer, KTA
Wet Film Gages:	
Roller (OSHD) Wet Film Gage 790/010	Oregon Dept. of Transportation Nordson
Destructive Film Thickness Gages:	
Tooke Inspector Gage	KTA

In areas where dry film thickness measurements are impractical or inappropriate, wet film thickness measurements will be determined by comparative measurements of wet to dry film thickness on similar surfaces with the same paint.

SECTION 510 - STEEL STRUCTURES Cont'd

(b-8) Protection Against Damage - Adjacent painted steel and concrete surfaces shall be masked or otherwise covered to protect these surfaces from paint overspray drippings. All paint on these surfaces which result in an unsightly appearance shall be removed or obliterated by the Contractor at his expense to the satisfaction of the Engineer. Blast cleaning of concrete surfaces adjacent to freshly painted surfaces will be allowed if the freshly painted surfaces are protected from the blast cleaning.

Old paint lifting after new paint is applied shall be scraped off and the exposed area repainted with all previous coats.

All painted surfaces that are marred or damaged as a result of the Contractor's operations shall be repaired by the Contractor at his expense with materials and to a condition equal to the coating specified herein. Upon completion of all painted operations and of any other work that would cause any foreign materials to be deposited upon the painted surfaces, the painting surfaces shall be cleaned if necessary. At the completion of all work, the painting shall be complete and the surfaces shall be undamaged and clean.

Removal of Improper Paint

All surfaces not properly cleaned before painting or painted without prior inspection and approval, or surfaces coated with impure or improper paint shall be thoroughly cleaned and repainted at the Contractor's expense.

Cleanup

The Contractor shall remove all paint, sand and debris resulting from cleaning or painting under this Contract, from all areas of the structure on which no cleaning and painting are to be performed. All cleanup work shall be performed in a manner approved by the Engineer, and to a degree acceptable to him.

SECTION 510 - STEEL STRUCTURES Cont'd

The Contractor shall be responsible for the disposal of empty paint containers and thinners used to cleanup tools. The disposal of these items shall conform with current Environmental Protection Agency standards.

Oil pans shall be installed under compressors or other equipment, as required.

Epoxy Paint

Epoxy paint is to be used on 1) the lift span sidewalks where residue is evident from welding of shear studs to the steel form deck 2) rebar painting during spall patching and 3) any other area the engineer may indicate.

Epoxy paint shall be one of the following or approved equal as the Contractor elects, subject to the approval of the engineer.

1. Scotchkote 309, Minnesota Mining and Mfg. Co., St. Paul, Minnesota 55144.
2. M180 or M186, Armstrong Products Co., Warsaw, Indiana 46580.

Cleaning, preparation of surface, and painting application shall be in accordance with this section "Maintenance Painting Steel Structures" and section "Steel Form Deck".

Measurement and Payment

No separate payment shall be made for this item of work, it being expressly understood that this item of work is incidental to unit price bid for "Structural Steel A-36" pounds.

SECTION 510 - STEEL STRUCTURES Cont'dMETAL HANDRAIL REHABILITATIONScope

The existing metal handrail is to be removed from the lift span sidewalk for rehabilitation in the fabricator's shop. All rust is to be removed, damaged nuts and bolts replaced, and the entire handrail painted.

After the rehabilitation work is complete, the railing shall be reinstalled on the lift span. Any surfaces marred or damaged as a result of the Contractor's operation shall be repaired by the Contractor at his expense. The reinstallation shall be complete before the steel form deck and concrete work may commence.

Preparation, Materials, and Manufacturing

Surface preparation and materials shall conform to Cleaning and Painting-Materials sections for Maintenance Painting Steel Structures of this specification, except for the method of blast cleaning. Blast cleaning shall conform to Steel Structures Painting Council Specification SSPC-SPI10 (near white metal blast cleaning)

Replacing Damaged Parts

ALL nuts, bolts, and other small metal parts that are damaged or have excessive corrosion where upon cleaning of the member, if the members have lost more than 1/4 of the original thickness of the members, those particular members or parts shall be replaced with a new part or member to restore the handrail to its original form. All necessary new material and associated labor shall be approved by the Engineer and will be paid for as extra work on a force account basis. The Contractor will be responsible for the cost of any damage caused by his operations in removing or reinstalling the railing.

SECTION 510 - STEEL STRUCTURES Cont'd

Painting

- (a) The painting of the handrail shall conform to the Painting-Application Section on Maintenance Painting Steel Structures of this specification.
- (b) The painting of members where original sound paint was not removed shall receive the First Finish Coat and Second Finish Coat in accordance to the section on Maintenance Painting Steel Structures of this specification.

Measurement and Payment

Measurement for "Metal Handrail Rehabilitation" and "Removal and Reinstallation" shall be by linear feet along the top of existing handrail.

The unit contract price per linear feet for "Metal Handrail Rehabilitation" and "Removal and Reinstallation", shall be full payment for furnishing all labor, material, tools, equipment and for all other costs necessary to clean and paint the metal handrail on the lift spans as specified above.

SUPPLEMENTAL REQUIRED CONTRACT PROVISIONS
(Bid Conditions)

PORTLAND AREA AFFIRMATIVE ACTION PLAN

EQUAL EMPLOYMENT OPPORTUNITY
(For all Construction Contracts to be Awarded in
Multnomah County, Oregon)

EACH BIDDER, CONTRACTOR OR SUBCONTRACTOR (HEREINAFTER THE CONTRACTOR) MUST FULLY COMPLY WITH PART II OF THESE BID CONDITIONS AS TO EACH CONSTRUCTION TRADE IT INTENDS TO USE ON THIS CONSTRUCTION CONTRACT AND ALL OTHER CONSTRUCTION WORK IN MULTNOMAH COUNTY DURING THE PERFORMANCE OF THIS CONTRACT OR SUBCONTRACT. THE CONTRACTOR COMMITS ITSELF TO THE GOALS FOR MINORITY UTILIZATION IN PART II, AND ALL OTHER REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS BY SUBMITTING A PROPERLY SIGNED BID.

THE CONTRACTOR SHALL APPOINT A COMPANY EXECUTIVE TO ASSUME THE RESPONSIBILITY FOR THE IMPLEMENTATION OF THE REQUIREMENTS, TERMS AND CONDITIONS OF THESE BID CONDITIONS.

PART I

Effective December 1, 1975, the Office of Federal Contract Compliance Programs eliminated Part I of the bid conditions of the Portland Area Affirmative Action Plan and directed that all crafts be placed under Part II of said bid conditions.

PART II

A. Coverage. The provisions of Part II shall be applicable to all Multnomah County Contracts, since they are within the Portland Plan Area.

B. Requirement--An Affirmative Action Plan. Contractors described in "A. Coverage" above shall be subject to the provisions and requirements of Part II of these bid conditions including the goals and timetables for minority^{1/} utilization, and specific affirmative action steps set forth in Sections B.1 and 2 of this Part II. The contractor's commitment to the goals for minority utilization as required by this Part II constitutes a commitment that it will make every good faith effort to meet such goals.

^{1/} "Minority" is defined as including Blacks, Hispanics, American Indians, and Asian and Pacific Islanders, both men and women.

1. Goals and Timetables - The goals of minority utilization required of the contractor are applicable to each trade used by the contractor in the Portland Plan Area.

For all such trades the goals of minority utilization expressed in percentage terms shall be from 5.5% to 6.5%.

The goals of minority and female utilization above are expressed in terms of hours of training and employment as a proportion of the total number of hours to be worked by the contractor's aggregate work force, which includes all supervisory personnel, in each trade on all projects (both Federal and Non-Federal) in the Portland Plan Area during the performance of its contract (i.e., the period beginning with the first day of work on the construction contract and ending with the last day of work.)

The hours of minority employment and training must be substantially uniform throughout the length of the contract in each trade and minorities must be employed evenly on each of a contractor's projects. Therefore, the transfer of minority employees or trainees from contractor to contractor or from project-to-project for the purpose of meeting the contractor's goals shall be a violation of Part II of these Bid Conditions.

If the contractor counts the nonworking hours of trainees and apprentices in meeting the contractor's goals, such trainees and apprentices must be employed by the contractor during the training period; the contractor must have made a commitment to employ the trainees and apprentices at the completion of their training subject to the availability of employment opportunities; and the trainees must be trained pursuant to training programs approved by the Bureau of Apprenticeship and Training for "Federal Purposes" or approved as supplementing the Portland Plan.

2. Specific Affirmative Action Steps - No contractor shall be found to be in noncompliance with Executive Order 11246, as amended, solely on account of its failure to meet its goals, but shall be given an opportunity to demonstrate that the contractor has instituted all the specific affirmative action steps specified in this Part II and has made every good faith effort to make these steps work toward the attainment of its goals within the timetables, all to the purpose of expanding minority utilization in its aggregate work force in the Portland Plan Area. A contractor subject to Part II which fails to achieve its commitments to the goals for minority utilization has the burden of proving that it has engaged in an affirmative action program directed at increasing minority utilization and that such efforts were at least as extensive and as specific as the following:

a. The contractor should have notified minority organizations when employment opportunities were available and should have maintained records of the organizations' response.

b. The contractor should have maintained a file of the names and addresses of each minority referred to it by any individual or organization and what action was taken with respect to each such referred individual, and if the individual was not employed by the contractor, the reasons therefor. If such individual was sent to the union hiring hall for referral and not referred back by the union or if referred, not employed by the contractor, the file should have documented this and the reasons therefor.

c. The contractor should have promptly notified the contracting or administering agency and the Office of Federal Contract Compliance Programs when the union or unions with which the contractor has collective bargaining agreements did not refer to the contractor a minority sent by the contractor, or when the contractor had other information that the union referral process has impeded efforts to meet its goals.

d. The contractor should have disseminated its EEO policy within its organization by including it in any employee handbook or policy manual; by publicizing it in company newspapers and annual reports, and by advertising such policy at reasonable intervals in union publications. The EEO policy should be further disseminated by conducting staff meetings to explain and discuss the policy; by posting of the policy; and by review of the policy with minority employees.

e. The contractor should have disseminated its EEO policy externally by informing and discussing it with all recruitment sources; by advertising in news media, specifically including minority news media; and by notifying and discussing it with all subcontractors.

f. The contractor should have made both specific and reasonably recurrent written and oral recruitment efforts. Such efforts should have been directed at minority, organizations, schools with substantial minority enrollment, and minority recruitment and training organizations within the contractor's recruitment area.

g. The contractor should have evidence available for inspection that all tests and other selection techniques used to select from among candidates for hire, transfer, promotion, training or retention are being used in a manner that does not violate the OFCCP Testing Guidelines in 41 CFR Part 60-3.

h. The contractor where reasonable, should have developed on-the-job training opportunities and participated and assisted in all Department of Labor funded and/or approved training programs relevant to the contractor's employee needs consistent with its obligations under this Part II.

i. The contractor should have made sure that seniority practices and job classifications do not have a discriminatory effect.

j. The contractor should have made certain that all facilities were not segregated by race.

k. The contractor should have continually monitored all personnel activities to ensure that its EEO policy was being carried out including the evaluation of minority employees for promotional opportunities on a quarterly basis and the encouragement of such employees to seek those opportunities.

1. The contractor should have solicited bids for subcontracts from available minority subcontractors engaged in the trades covered by these Bid Conditions, including circulation of minority contractor associations.

NOTE: The Assistant Regional Administrator of the Office of Federal Contract Compliance Programs and the compliance agency staff will provide technical assistance on questions pertaining to minority recruitment sources, minority community organizations and minority news media upon receipt of a request for assistance from a contractor.

3. Nondiscrimination. In no event may a contractor utilize the goals and affirmative action steps required by this Part II in such a manner as to cause or result in discrimination against any person on account of race, color, religion, sex or national origin.

PART III COMPLIANCE AND ENFORCEMENT

In all cases, the compliance of a contractor will be determined in accordance with its obligations under the terms of these Bid Conditions. Therefore, contractors who are governed by the provisions of Part II shall be subject to the requirements of that Part regardless of the obligations of its prime contractor or lower tier subcontractors.

All contractors performing or to perform work on projects subject to these Bid Conditions hereby agree to inform their subcontractors in writing of their respective obligations under the terms and requirements of these Bid Conditions, including the provisions relating to goals of minority employment and training.

A. Contractors Subject to Part II. In regard to Part II of these Bid Conditions, if the contractor meets the goals set forth therein or can demonstrate that it has made every good faith effort to meet these goals, the contractor shall be presumed to be in compliance with Executive Order 11246, as amended, the implementing regulations and its obligations under Part II of these Bid Conditions. In that event, no formal sanctions or proceedings leading toward sanctions shall be instituted unless the contracting or administering agency otherwise determines that the contractor is violating the Equal Opportunity clause.

Where the agency finds that the contractor failed to comply with the requirements of Executive Order 11246, as amended, the implementing regulations and the obligations under Part II of these Bid Conditions, the agency shall take such action and impose such sanctions, which include suspension,

termination, cancellation, and debarment, as may be appropriate under the Executive Order and its regulations. When the agency proceeds with such formal action it has the burden of proving that the contractor has not met the goals contained in Part II of these Bid Conditions. The contractor's failure to meet its goals shall shift to it the requirement to come forward with evidence to show that it has met the good faith requirements of these Bid Conditions by instituting at least the specific affirmative action steps listed in Part II, Section 2. The pendency of such proceedings shall be taken into consideration by Federal agencies in determining whether such contractor can comply with the requirements of Executive Order 11246, as amended, and is therefore a "responsible prospective contractor" within the meaning of the basic principles of Federal procurement law.

It shall be no excuse that the union with which the contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees. Discrimination in referral for employment, even if pursuant to provisions of a collective bargaining agreement, is prohibited by the National Labor Relations Act, as amended, and Title VII of the Civil Rights Act of 1964, as amended. It is the policy of the Office of Federal Contract Compliance Programs that contractors have a responsibility to provide equal employment opportunity if they wish to participate in federally involved contracts. To the extent they have delegated the responsibility for some of their employment practices to a labor organization and, as a result, are prevented from meeting their obligations pursuant to Executive Order 11246, as amended, such contractors cannot be considered to be in compliance with Executive Order 11246, as amended, its implementing rules and regulations.

PART IV GENERAL REQUIREMENTS

1. Contractors are responsible for informing their subcontractors in writing regardless of tier, as to their respective obligations under Part II hereof. Whenever a contractor subcontracts a portion of the work in any trade covered by these Bid Conditions, it shall include these Bid Conditions in such subcontracts and each subcontractor shall be bound by these Bid Conditions to the full extent as if it were the prime contractor. The contractor shall not, however, be held accountable for the failure of its subcontractors to fulfill their obligations under these Bid Conditions. However, the prime contractor shall give notice to the Assistant Regional Administrator of the Office of Federal Contract Compliance Programs of the Department of Labor and to the contracting or administering agency of any refusal or failure of any subcontractor to fulfill its obligations under these Bid Conditions. A subcontractor's failure to comply will be treated in the same manner as such failure by a prime contractor.

2. Contractors hereby agree to refrain from entering into any contract or contract modification subject to Executive Order 11246, as amended, with a contractor debarred from or who is determined not to be a "responsible" bidder for Government contracts and federally-assisted construction contracts pursuant to the Executive Order.

3. The Contractor shall carry out such sanctions and penalties for violation of these Bid Conditions and the Equal Opportunity clause including suspension, termination and cancellation of existing subcontracts and debarment from future contracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations by the contracting or administering agency and the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall also be deemed to be in noncompliance with these Bid Conditions and Executive Order 11246, as amended.

4. Nothing herein is intended to relieve any contractor during the term of its contract from compliance with Executive Order 11246, as amended, and the Equal Opportunity clause of its contract with respect to matters not covered in Part II of these Bid Conditions.

5. The procedures set forth in these Bid Conditions shall not apply to any contract which the head of the contracting or administering agency determines is essential to the national security and its award, without following such procedures, is necessary to the national security. Upon making such a determination, the agency head will notify, in writing, the Director of the Office of Federal Contract Compliance Programs within thirty days.

6. Requests for exemptions from these Bid Conditions must be made in writing, with justification, to the Director, Office of Federal Contract Compliance Programs, U.S. Department of Labor, Washington, D.C. 20210, and shall be forwarded through and with the endorsement of the head of the contracting or administering agency.

7. Contractors must keep such records and file such reports relating to the provisions of these Bid Conditions as shall be required by the contracting or administering agency or the Office of Federal Contract Compliance Programs.

8. Information relative to compliance with these Bid Conditions may be obtained from the County Engineer, Multnomah County, Oregon, 2115 S.E. Morrison Street, Portland, Oregon 97214. Phone (503) 248-3591.

RECORDS AND REPORTS

The contractor and each subcontractor (\$10,000 or more) shall submit to the engineer the following reports:

A "Monthly Employment Utilization Report" (Standard Form - 257) in accordance with the instructions given therein. Once the contractor and/or subcontractors have begun work, these reports are to be submitted even if no employees are working on the project during the reporting period. (Report is to be marked "negative".)

Failure of a contractor to submit the required reports (Standard Form 257 and all lists and statements called for thereon) within the time stipulated thereon may result in the issuance by Multnomah County of a 30-day Show Cause Notice indicating the contractor is in noncompliance for failure to submit required information and reports.

U. S. DEPARTMENT OF LABOR Employment Standards Administration, OFCCP	MONTHLY EMPLOYMENT UTILIZATION REPORT	1 COVERED AREA (SMSA OR EA)	3 CURRENT GOALS MINORITY: _____ FEMALE: _____	4 REPORTING PERIOD FROM: _____ TO: _____
* This report is required by Executive Order 11246, Sec. 203. Failure to report can result in contracts being cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts of federally assisted construction contracts.		2 EMPLOYER'S ID NO.		

NAME AND LOCATION OF CONTRACTOR	FEDERAL FUNDING AGENCY
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5. CONSTRUCTION TRADE	Classifications	6. WORK HOURS OF EMPLOYMENT (Federal & Non-Federal)										9. TOTAL NUMBER OF EMPLOYEES		10. TOTAL NUMBER OF MINORITY EMPLOYEES			
		6a. TOTAL ALL EMPLOYEES BY TRADE		6b. BLACK (Not of Hispanic Origin)		6c. HISPANIC		6d. ASIAN OR PACIFIC ISLANDERS		6e. AMERICAN INDIAN OR ALASKAN NATIVE						7. MINORITY PERCENTAGE	8. FEMALE PERCENTAGE
		M	F	M	F	M	F	M	F	M	F						
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	Journey worker																
	APPRENTICE																
	TRAINEE																
	SUB-TOTAL																
	TOTAL JOURNEY WORKERS																
	TOTAL APPRENTICES																
	TOTAL TRAINEES																
	GRAND TOTAL																

11. COMPANY OFFICIAL'S SIGNATURE AND TITLE	12. TELEPHONE NUMBER (Include area code)	13. DATE SIGNED	PAGE _____ OF _____
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INSTRUCTIONS FOR FILING MONTHLY EMPLOYMENT UTILIZATION REPORT (CC-257)

The Monthly Utilization Report is to be completed by each subject contractor (both prime and sub) and signed by a responsible official of the company. The reports are to be filed by the 5th day of each month during the term of the contract, and they shall include the total work-hours for each employee classification in each trade in the covered area for the monthly reporting period. The prime contractor shall submit a report for its aggregate work force and collect and submit reports for each subcontractor's aggregate work force to the Federal compliance agency that has Executive Order 11246 responsibility. (Additional copies of this form may be obtained from the U.S. Department of Labor, Employment Standards Administration, OFCCP's regional office for your area.)

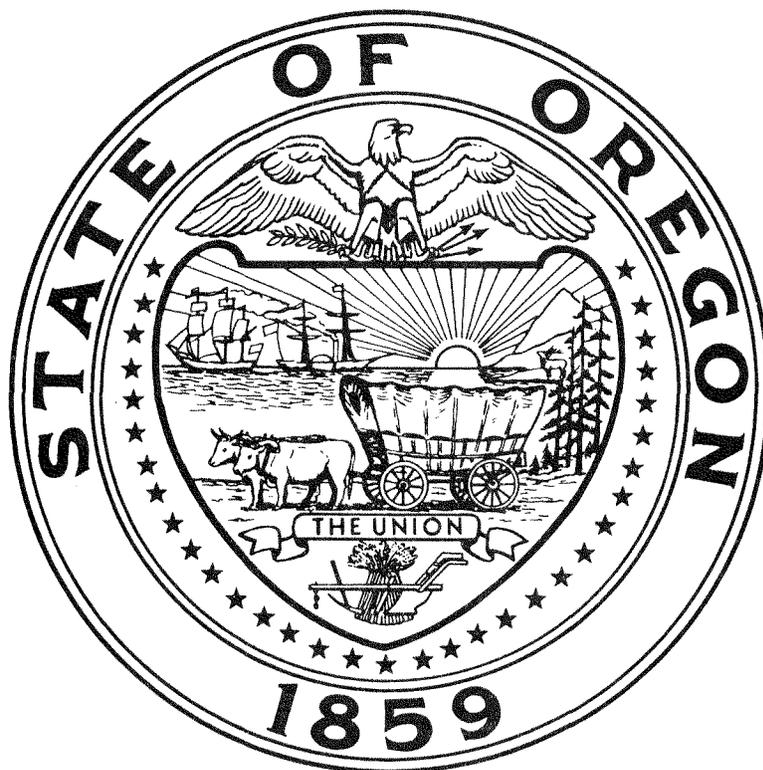
- | | |
|--|---|
| Compliance Agency | U.S. Government agency assigned responsibility for equal employment opportunity. (Secure this information from the contracting officer.) |
| Federal Funding Agency | U.S. Government agency funding project (in whole or in part). If more than one agency, list all. |
| Contractor | Any contractor who has a construction contract with the U.S. Government or a contract funded in whole or in part with Federal funds. |
| Minority | Includes Blacks, Hispanic, American Indians, Alaskan Natives, and Asian and Pacific Islanders—both men and women. |
| 1. Covered Area | Geographic area identified in Notice required under 41 CFR 60-4.2. |
| 2. Employer's Identification Number | Federal Social Security Number used on Employer's Quarterly Federal Tax Return (U.S. Treasury Department Form 941). |
| 3. Current Goals (Minority & Female) | See contract Notification. |
| 4. Reporting Period | Monthly, or as directed by the compliance agency, beginning with the effective date of the contract. |
| 5. Construction Trade | Only those construction crafts which contractor employs in the covered area. |
| 6. Work-Hours of Employment (a-e) | a. The total number of male hours and the total number of female hours worked by employees in each classification.

b-e. The total number of male hours and the total number of female hours worked by each specified group of minority employees in each classification. |
| Classification | The level of accomplishment or status of the worker in the trade (Journey Worker, Apprentice, Trainee) |
| 7. Minority Percentage | The percentage of total minority work-hours of all work-hours (the sum of columns 6b, 6c, 6d, and 6e divided by column 6a; just one figure for each construction trade). |
| 8. Female Percentage | For each trade the number reported in 6a, F divided by the sum of the numbers reported in 6a, M and F. |
| 9. Total Number of Employees | Total number of male and total number of female employees working in each classification of each trade in the contractor's aggregate work force during reporting period. |
| 10. Total Number of Minority Employees | Total number of male minority employees and total number of female minority employees working in each classification in each trade in the contractor's aggregate work force during reporting period. |

PREVAILING WAGE RATES

for

Public Works Contracts in Oregon



BOLI

Mary Wendy Roberts

Commissioner

Bureau of Labor and Industries

Effective January 1, 1989



BUREAU OF LABOR AND INDUSTRIES

Mary Roberts, Commissioner

January 1, 1989

This booklet contains the Prevailing Wage Rates for the building and construction trades in the State of Oregon. These rates are effective January 1, 1989. These rates have been amended in accordance with ORS 279.348 through ORS 279.365.

Prevailing Wage Rates are the minimum wages that must be paid to all workers employed in the construction, reconstruction, major renovation or painting of any public works. Copies of these rates must be incorporated into all bid specifications when the advertisement for a public works contract is issued. A provision that Prevailing Wage Rates be paid must also be put in the contract. The rates in effect at the time the bid specifications are first advertised are those that apply for the duration of the project, with one exception; if during the bidding process the Prevailing Wage Rates change, the public contracting agency has the option of amending the bid specifications to reflect such changes.

If you identify any errors in the rates published, please bring them to the attention of the Prevailing Wage Rate Analyst in Portland (229-6655). If you have any questions about the manner in which the Prevailing Wage Rates are enforced, contact the Wage and Hour Division in Portland (229-5750).


MARY WENDY ROBERTS
Commissioner
Bureau of Labor and Industries

PORTLAND
1400 SW 5th Avenue
Portland, Oregon 97201

SALEM
3865 Wolverine St. NE; E-1
Salem, Oregon 97310

EUGENE
165 E. 7th Street, Suite 220
Eugene, Oregon 97401

MEDFORD
700 E. Main
Medford, Oregon 97504

COOS BAY
320 Central Ave., Suite 510
Coos Bay, Oregon 97420

BEND
1250 NE 3rd, Suite B105
Bend, Oregon 97701

PENDLETON
700 SE Emigrant, Suite 240
Pendleton, Oregon 97801

AN EQUAL OPPORTUNITY EMPLOYER

CORRECTION
OF THE FEBRUARY 20, 1989 AMENDMENT
OF PREVAILING WAGE RATES FOR PUBLIC WORKS CONTRACTS IN OREGON

Please disregard the paragraph concerning Power Equipment Operators. There has been no change in the fringe benefits of Power Equipment Operators. The paragraph should have said,

Fringe Benefits of Truck Drivers are increased \$.25 per hour, to \$4.95.

The section of the Amendment concerning Asbestos Workers is correct.

We apologize for any confusion or inconvenience this error may have caused.

The effective date of the Amendment and the correction is February 20, 1989.

AN AMENDMENT TO THE JANUARY 1, 1989
PREVAILING WAGE RATES FOR PUBLIC WORKS CONTRACTS IN OREGON

February 20, 1989

There have been changes in the Prevailing Wage Rates of 2 different trades since the most recent PWR Booklet appeared on January 1, 1989.

1. Fringe benefits of Power Equipment Operators are increased \$.25 per hour, to \$4.95.
2. Asbestos Workers rates have been restructured to reflect the size and type of project.

Asbestos Workers	Wage Rate	Fringe Benefits
HVAC work	\$16.00	\$4.03
Non-HVAC work on contracts and subcontracts less than \$100,000 **	\$17.00	\$4.03
Non-HVAC work on contracts and subcontracts of \$100,000 or more **	\$17.49	\$4.03

JURISDICTIONAL NOTE: The removal of all insulation materials from mechanical systems (pipes, boilers, ducts, flues, breechings, etc.) is exclusively the work of Asbestos Workers, unless the mechanical systems are going to be scrapped. (It does not matter whether the insulation materials contain asbestos.) Laborers do all removal of insulation materials on mechanical systems to be scrapped and any non-mechanical insulation. They also do loading of any insulation materials that have already been removed, bagged, and tagged, as well as cleanup at the removal site and all work done at the disposal site.

Laborers trained for removal of Asbestos are considered Class 3.

** If the insulation work is done under a subcontract, the total value of the subcontract determines which rate applies. If the insulation work is done without a subcontract, the total value of the project determines which rate applies. (This method of determining the appropriate rate to be paid is different from the method used for Carpenters, Laborers, Power Equipment Operators, and Truck Drivers, which always refers to the value of the total project. This method also has no bearing on the standard for calculating whether a public works project is subject to Oregon Prevailing Wage Rates. That standard is based on the value of the total project.)

ALL RATES IN THE JANUARY 1989 BOOKLET WHICH ARE NOT AMENDED REMAIN IN FORCE!

ANNOUNCEMENT

The Prevailing Wage Rates contained in this booklet generally reflect those rates determined for Oregon by the Secretary of Labor of the United States pursuant to the Davis-Bacon Act; certain changes have been made to better reflect prevailing practices in Oregon. Pursuant to ORS 279.348 to ORS 279.365, these rates have been adopted for use on public works contracts in Oregon. If you have specific questions regarding how rates are determined or if you would like a copy of this booklet, please contact:

Prevailing Wage Rate Analyst
Bureau of Labor and Industries
1400 S. W. 5th Avenue,
Portland, OR 97201
(503)229-6655

The first copy is free. Additional copies are available for 75¢ each.

GENERAL INFORMATION

Information in this section and in the "Commonly Asked Questions" is meant to provide a convenient reference to Oregon's Prevailing Wage Rate Law. It is in no way a complete statement of the laws and rules.

If you have questions about the enforcement of Prevailing Wage Rates, please contact the Wage and Hour Division. Division offices may be reached at the following phone numbers:

Bend	388-6330
Eugene	686-7623
Medford	776-6201
Pendleton	276-7884
Portland	229-5750
Salem	378-3292

Apprentices and Trainees

Apprentices and trainees may be employed on public works. To qualify as an apprentice or trainee, the worker must be registered in a bonafide apprenticeship or training program of the U.S. Department of Labor, Bureau of Apprenticeship and Training (BAT) or with any State Apprenticeship and Training Agency recognized by BAT. The apprentice or trainee is to receive all fringe benefits and a percentage of the journeyman's wage rate; the appropriate percentage shall be determined by the apprenticeship or training committee. All other workers must receive rates as published.

Zone Pay

In certain trades, the basic hourly rate of pay progressively increases based upon the distance between the job site and a designated landmark; this is commonly referred to as zone pay. To determine the hourly wage, find the correct zone based on the number of road miles the job site is from the closest designated city (based either on distance from city hall or from geographical center of the city, depending on the trade) and add the amount for that zone to the basic hourly rate. Zone pay, unlike travel pay, is the basic hourly wage upon which overtime is computed.

Bid Specifications

The specifications for every public works contract must include the current Prevailing Wage Rates in effect at the time the specifications are first advertised. A statement incorporating the existing rates by reference will not satisfy this requirement (ORS 279.352).

NOTE: If a public agency fails to include the Prevailing Wage Rates in the contract specifications or fails to include in the contract the provision that Prevailing Wage Rates must be paid, the liability for any unpaid prevailing wages could be exclusively that of the agency.

Fringe Benefits

Payments for fringe benefits are in addition to the basic hourly rate. Fringe benefits means the amount for:

- a) medical or hospital care; pensions on retirement or death; compensation for injuries or illness resulting from an occupational activity, or insurance to provide any of the foregoing;
- b) unemployment benefits, life insurance, disability and sickness insurance or accident insurance;
- c) vacation and holiday pay;
- d) defraying costs of apprenticeship or other similar programs; and
- e) other such bona fide benefits.

NOTE: For the purpose of Prevailing Wage Rates, fringe benefits do not include any benefits which may be required by federal, state or local law (e.g. Workers' Compensation, Unemployment Insurance, etc.).

Fringe benefits may be paid to the worker in cash or to a third party administering a fringe benefit program. When an hourly rate in excess of the required prevailing base rate is paid, the amount by which the rate is exceeded may be credited toward payment of fringe benefits.

Overtime

Workers employed on a public works job for more than eight hours in a day or 40 hours in a week must be paid overtime for each additional hour so worked (ORS 279.334). Overtime is calculated at no less than one and one-half times the basic hourly rate as determined by the Commissioner of Labor (not including fringe benefits which are paid at the straight rate for every hour worked). In the computation of overtime, travel pay does not need to be included but zone pay differentials do.

Work performed on Saturday, Sunday or legal holidays must also be compensated at time and one-half. Legal holidays for purposes of Prevailing Wage Rates include the following: 1) New Year's Day on January 1; 2) Memorial Day on the last Monday in May; 3) Independence Day on July 4; 4) Labor Day on the first Monday in September; 5) Thanksgiving Day on the fourth Thursday in November; 6) Christmas Day on December 25.

NOTE: Contractors who are signatory to a collective bargaining agreement may be subject to different overtime requirements (ORS 279.334[3]).

Certification of Payroll

The law requires every contractor and subcontractor to file certain information on wages paid to each worker employed on a public works contract. This statement must completely and accurately reflect payroll records for the work week immediately preceding the submission. A contractor or subcontractor must complete and submit the certified statement contained on Form WH-38 as well as the information required on the weekly payroll side of the form. A copy of Form WH-38 and instructions for completing it are included in the back of this booklet; xeroxed copies may be used for filing.

The schedule for submitting payroll information is as follows: once within 15 days of the date the contractor or subcontractor first began work on the project and once before the final inspection of the project by the public contracting agency; in addition, for projects exceeding 90 days, submissions are to be made at 90 day intervals. Payroll information is to be filed with both the public contracting agency and the Wage and Hour Division, Bureau of Labor and Industries, 1400 S.W. Fifth Avenue, Portland, Oregon 97201. The payroll information must be kept by the contractor and or subcontractor for three years.

COMMONLY ASKED QUESTIONS

1) What are "Prevailing Wage Rates?"

A prevailing wage rate is the minimum wage, including fringe benefits to be paid workers employed on contracts for public works. Different rates are established for specific trades and specific geographical areas.

2) Who must be paid "Prevailing Wage Rates?"

All employees of a contractor or subcontractor engaged on a public works project when the total price of the project is \$10,000 or more must receive at least the Prevailing Wage Rate (PWR) for time worked on the project, unless otherwise exempt.

Supervisory and office/clerical employees are not required to be paid the PWR. A person who owns and operates his/her own truck or other hauling equipment on construction projects (Owner/Operator) is not required to be paid the PWR.

3) What about contracts when Federal funds are used?

When more than \$2,000 of federal funds are involved, the contract is usually subject to the provisions of the Davis-Bacon Act, not Oregon statutes. Further information may be obtained from the U.S. Department of Labor, Wage and Hour Division, Portland, Oregon (221-3057). However, in the event that federal funds are involved, but the contract is not regulated under Davis-Bacon, Oregon's Prevailing Wage Rates Statutes may apply (ORS 279.348 - 279.365).

COMMONLY ASKED QUESTIONS (Continued)

4) I don't have a pension fund. How do I calculate fringe benefits?

Workers must receive at a minimum the sum of the basic hourly rate plus all fringe benefits for each hour worked on a public works contract. Fringe benefits may be paid either to a third party trust account or in cash directly to the worker.

5) What if the employees are not paid on an hourly basis?

All workers must receive at least the basic hourly rate of wage and fringe benefits for each hour worked on the project. If an employee is paid other than on an hourly basis, the equivalent hourly rate (for both wages and fringe benefits) must still be at least equal to the rates published.

6) How do I classify workers?

Virtually all of the job classifications/trades normally used in the construction industry are represented by the job classifications used in this PWR publication. These classification titles should be used according to common practice. Try to fit your workers into existing classifications. If you have questions about how to classify workers, contact the Wage and Hour Division at 229-5750 in Portland or at one of the offices listed on page 1 of this booklet.

Laborers who do basic work requiring no specific skills, training or knowledge are generally classified as Group 1 Laborers.

(Note that Landscapers are classified as Laborers, and Ornamental Ironworkers are classified as Ironworkers.)

7) When are new rates determined? How long are they effective?

Prevailing Wage Rates are determined once each year by the Commissioner of the Bureau of Labor and Industries. The Commissioner may amend the rates at any time. The rates are usually amended at least once each year. The rates in effect at the time the bid specifications are first advertised are those that apply for the duration of the contract, with one exception. If during the bidding process the prevailing wage rate changes, the public contracting agency (not the contractor) has the option of amending the bid specifications to reflect such change.

8) How do I post Prevailing Wage Rates?

Every contractor or subcontractor employing workers on a public works project is required to post the applicable Prevailing Wage Rates in a conspicuous and accessible place in or about the work-site.

Rates need to be posted for the duration of the job. Contractors and subcontractors who intentionally fail to post the PWR can be made ineligible to receive any public works contract for up to three years.

COMMONLY ASKED QUESTIONS (Continued)

- 9) What can I do about a contractor who is not complying with Oregon's PWR law?

File a complaint with the nearest office of the Oregon Bureau of Labor and Industries or contact the Wage and Hour Division, Bureau of Labor and Industries, 1400 S.W. 5th Avenue, Portland, Oregon 97201 (229-5750). Other Bureau offices are located in Bend (388-6330), Coos Bay (269-4575), Eugene (686-7623), Medford (776-6013), Pendleton (276-7884) and Salem (378-3292). You may also complain to the contracting agency, which has the contractual authority to pay PWR claims directly to a contractor's or subcontractor's workers (ORS 279.314).

- 10) What happens to contractors who do not comply with PWR statutes?

Contractors and subcontractors who pay less than the Prevailing Wage Rates may be liable to the workers affected for the amount found due plus an equal amount as liquidated damages (ORS 279.356). Contracting agencies also have the contractual authority to withhold payments due or to be due to the contractor or subcontractor in order to pay the unpaid prevailing wages directly to the worker (ORS 279.314).

Contractors and subcontractors who intentionally refuse to pay the Prevailing Wage Rate to workers employed on public works or to post the PWR on the job site may be determined to be ineligible to receive any public works contracts for a period of up to three years (ORS 279.361). Workers employed by the contractor or subcontractors have a right of action against the surety of the prime contractor for any unpaid prevailing wages.

A list is kept of all contractors, subcontractors, and other persons ineligible to receive public works contracts and subcontracts. When a contractor or subcontractor is a corporation, the individual officers and agents of the corporation can be debarred, in addition to the corporation. As a result, individuals who intentionally fail to pay or post the PWR are prevented from simply moving from one corporation to another.

- 11) How much do I pay apprentices?

To qualify as an apprentice, the worker must be registered in a bona fide apprenticeship program of the U.S. Department of Labor, Bureau of Apprenticeship and Training (BAT) or with any State Apprenticeship Agency recognized by BAT. The apprentice is to receive all fringe benefits and a percentage of the journeyman's wage rate; the appropriate percentage shall be determined by the apprenticeship committee. All other workers receive rates as published.

COMMONLY ASKED QUESTIONS (Continued)

12) What records must I keep? For how long?

Contractors and subcontractors are required to keep records necessary for determining if Prevailing Wage Rates were paid. These records must include the Payroll and Certified Statement Form (WH-38) as well as the following: The name and address of each employee; the work classification(s) of each employee; the rate(s) of wages and fringe benefits paid to each employee; the rate(s) of fringe benefit payments made in lieu of those required to be provided to each employee; total daily and weekly compensation paid to each employee; daily and weekly hours worked by each employee; apprenticeship and training agreements; any payroll and other such records pertaining to the employment of employees upon a public works contract.

These need to be kept for a period of three (3) years from the completion of the public work contract. Records relating to public works contracts must be maintained separately from records relating to private projects/contracts.

13) What forms are public agencies required to file with the Bureau of Labor and Industries?

Public agencies are required to prepare and file with the Commissioner of the Bureau of Labor and Industries a list of every public improvement that the agency intends to fund during the subsequent budget period (ORS 279.023[2]). If, after the original filing, the agency plans additional public improvements, a revised list is to be submitted (OAR 839-16-008[2]).

The "Notice of Award of Public Works Contract" is to be filed with the Wage and Hour Division within 30 days of the date when a contract is awarded which requires the payment of Prevailing Wage Rates (i.e., is regulated under ORS 279.348 to 279.365).

Copies of the "Planned Public Improvement Summary" (Form No. WH-118), the "Capital Improvement Project Cost Comparison Estimate" (WH-119), and the "Notice of Award of Public Works Contract" (WH-81) can be found at the back of this booklet.

14) Does a contracting agency have any power to enforce payment of Prevailing Wage Rates on its public works projects?

Yes. According to ORS 279.314, all public contracts for work or services must contain a clause or condition permitting the contracting agency to pay a worker's past due wage claim, charging the payment against funds due or to become due to the contractor.

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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ASBESTOS WORKERS

Including insulation of piping and other mechanical surfaces.
 \$15.40 \$4.03

BOILERMAKERS 20.58 4.80

BRICKLAYERS/Stonemasons

Area 1 18.28 3.68

Area 2 17.65 3.82

Area 1

Baker	Hood River	Polk	Wallowa
Clackamas	Malheur (a)	Sherman	Wasco (b)
Clatsop	Marion	Tillamook	Washington
Columbia	Morrow	Umatilla	Yamhill
Gilliam	Multnomah	Union	

Area 2

Benton	Douglas	Josephine	Linn
Crook	Grant	Klamath	Malheur (c)
Coos	Harney	Lake	Wasco (d)
Curry	Jackson	Lane	Wheeler
Deschutes	Jefferson	Lincoln	

- a) North half
- b) North of the City of Maupin
- c) South half
- d) Including the City of Maupin and South thereof

CARPENTERS (see page 11)

CEMENT MASONS

Zone 1 (Base Rate):
 o Cement Masons 16.69 4.97
 o Composition Workers (includes installation of epoxy & other resinous toppings), and Power Mach. Oper. 17.01 4.97

Zone Differential for Cement Masons (Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the cities listed below.

Zone 2: More than 30 miles but less than 400 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

Cities

Bend	Corvallis	Coos Bay	Roseburg	Eugene
Pasco	The Dalles	Medford	Longview	K. Falls
Salem	Pendleton	Astoria	Portland	Newport

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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DIVERS & DIVERS' TENDERS

o Divers 43.62 3.67
 o Divers' Tenders 19.29 3.67

Depth Pay and Enclosure Pay are added to the Divers' Basic Hourly Rate to obtain the Total Hourly Rate for the diver.

BASIC HOURLY RATE + DEPTH PAY + ENCLOSURE PAY = TOTAL HOURLY PAY

o Divers' Depth Pay

Depth of Dive	Hourly Depth Pay
50-100 ft	[(total ft- 50) x \$1.00]/hr.
100-150 ft	\$ 50 + [(total ft-100) x \$1.50]/hr.
150-200 ft	\$125 + [(total ft-150) x \$2.00]/hr.

o Divers' Enclosure Pay(working without vertical escape)

Distance Travelled In the Enclosure	Hourly Enclosure Pay
5 - 50 ft	\$.50/hr
50 - 100 ft	\$.63/hr
100 - 150 ft	\$ 2.13/hr
150 - 200 ft	\$ 4.63/hr
200 - 300 ft	\$ 4.63 + ([total ft-200]x \$.05)/hr
300 - 450 ft	\$ 9.63 + ([total ft-300]x \$.10)/hr
450 - 600 ft	\$24.63 + ([total ft-450]x \$.20)/hr

DREDGING

o Leverman-Hydraulic 19.49 5.17
 o Leverman-Dipper 20.27 5.17
 o Asst. Engineer (including: Watch Engineer, Welder, Mechanic, Machinist) 18.88 5.17
 o Tenderman (Boatman, Attending Dredge Plan); Fireman 18.43 5.17
 o Assistant Mate (Deckhand); Oiler 18.04 5.17

DRYWALL/WETWALL

o Drywall (Accoustical and Drywall Applicator) 15.95 4.02
 o Wetwall (Lather) 14.70 5.27

ELECTRICIANS

Area 1:

o Electricians 16.25 3.32
 o Cable Splicers 17.88 3.40

Area 2:

o Electricians 20.71 5.63
 o Cable Splicers 21.75 5.66

Area 3:

o Electricians 16.50 4.94

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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ELECTRICIANS (continued)

Area 4:

Where the cost of electrical work (labor and material) is less than or equal to \$100,000:

o Electricians	17.45	3.04
o Cable Splicer	19.20	3.10

Where the cost of electrical work (labor and material) is more than \$100,000:

o Electricians	17.95	3.06
o Cable Splicer	19.75	3.11

Area 5:

o Electricians	19.80	4.69
o Cable Splicers	20.55	4.72

Area 6:

o Electricians	17.20	4.12
o Cable Splicers	18.92	4.17

Area 1	Area 2	Area 2(cont)	Area 3
Malheur	Baker Gilliam Grant Morrow	Umatilla Union Wallowa Wheeler	Coos Curry Lincoln Douglas (a) Lane (a)

Area 4	Area 5	Area 6
Benton Crook Deschutes Jefferson Lane (b) Linn Marion Polk Yamhill(c)	Clackamas Clatsop Columbia Hood River Multnomah Sherman Tillamook Wasco Washington Yamhill (d)	Harney Jackson Josephine Klamath Lake Douglas (b)

- a) Those portions lying west of a line North and South from the NE corner of Coos County to the SE corner of Lincoln County
- b) That portion lying east of a line running North and South from the NE corner of Coos County to the SE corner of Lincoln County
- c) South half
- d) North half

ELEVATOR CONSTRUCTORS

Area 1

o Mechanic	18.88	4.33 + a
o Helper	13.22	4.33 + a
o Probationary Helper	9.44	-

Area 2

o Mechanic	19.22	4.33 + a
o Helper	13.45	4.33 + a
o Probationary Helper	9.61	-

- a) Plus 10.8% of basic hourly rate for employees with more than 5 years of service; 8.8% of basic hourly rate for 6 months to 5 years of service.

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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ELEVATOR CONSTRUCTORS (continued)

Area 1

Umatilla
Wallowa
Union
Baker

Area 2

All
Remaining
Counties

GLAZIERS

Area 1	17.97	3.08
Area 2	13.76	1.72

Area 1

All Counties
except Malheur

Area 2

Malheur

HIGHWAY AND PARKING STRIPERS

	18.14	1.05
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IRONWORKERS

o Structural, Reinforcing, Ornamental, Riggers, Fence Erectors, Signal Men	18.26	5.81
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LABORERS (see page 11)

LIMITED ENERGY ELECTRICIANS

May only be used for electrical work not exceeding 100 va:

Area 1	9.50	2.28
Area 2	9.95	1.53
Area 3	9.44	2.00
Area 4	9.69	2.14
Area 5	10.57	2.17
Area 6	9.55	2.28
Area 7	9.88	1.77
Area 8	9.40	2.18
Area 9	9.92	1.70
Area 10	9.81	1.59
Area 11	10.65	1.66
Area 12	12.78	1.69
Area 13	10.79	2.04
Area 14	10.54	1.84

- Area 1 Clatsop, Columbia, Tillamook
- Area 2 Clackamas, Multnomah, Washington
- Area 3 Marion, Polk, Yamhill
- Area 4 Benton, Lincoln, Linn
- Area 5 Lane
- Area 6 Douglas
- Area 7 Coos, Curry
- Area 8 Jackson, Josephine
- Area 9 Hood River, Sherman, Wasco
- Area 10 Crook, Deschutes, Jefferson
- Area 11 Klamath, Lake
- Area 12 Gilliam, Grant, Morrow, Umatilla, Wheeler
- Area 13 Baker, Union, Wallowa
- Area 14 Harney, Malheur

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	
LINE CONSTRUCTION			MARBLE SETTERS (Includes Granite)			
<u>Area 1</u>			Area 1			
Zone 1 (Base Rate):			19.28 3.68			
o Group 1	21.68	4.31	<u>Area 1</u>			
o Group 2	19.59	4.24	Baker	Hood River	Sherman	Wallowa
o Group 3	15.35	4.09	Clackamas	Malheur (a)	Tillamook	Wasco (b)
o Group 4	16.89	3.34	Clatsop	Morrow	Union	Washington
o Group 5	14.78	3.27	Columbia	Multnomah	Umatilla	Yamhill (a)
o Group 6	13.90	3.24	Gilliam			
Zone Differential (Add to Zone 1 Rate)			a) North half b) North of the City of Maupin			
Zone 2	2.40		PAINTERS & DRYWALL TAPERS			
Zone 3	3.15		Area 1			
Zone 4	3.90		o Painter & Drywall Tapers			
Zone 5	5.15		12.02 2.01			
Group 3 receives Zone 1 Rate ONLY			Area 2			
(No Zone Differential)			o Brush			
<u>Area 2:</u>			13.21 3.26			
o Cable Splicers	18.06	2.88	o Spray, sandblasting, other pressure blasting over 3000 psi, and steam cleaning			
o Journeyman Lineman	16.42	2.82	13.71 3.26			
o Line Equip. Mech. (Right-of-way)	15.55	2.79	o Wall covering including: paper hanging, gilding, and mural painting			
o Line Equip. Oper.	14.81	2.77	13.71 3.26			
o Line Equip. Srvcmn	14.57	2.76	o Bridges or Over 50'			
o Groundman	11.55	2.65	-Brush 13.96 3.26			
<u>Area 1</u>			-Spray 14.46 3.26			
ALL counties except Malheur County			o Drywall Tapers 15.71 4.29			
Zone 1: 0 to 3 miles from the geographical center of Medford and Portland			Area 1 Area 2			
Zone 2: 0 to 20 miles from the geographical center of Astoria, Baker, Burns, Bend, Corvallis, Eugene, Klamath Falls, Lakeview, Longview, Pendleton, Salem, Roseburg, The Dalles, Umatilla (NOTE: for Portland and Medford, Zone 2 is 3 to 20 miles)			Malheur County Remaining Counties			
Zone 3: 20 to 35 miles radius			PLASTERERS			
Zone 4: 35 to 50 miles radius			Area 1 17.35 4.02			
Zone 5: Over 50 miles radius			Area 2 17.18 4.01			
<u>Group 1</u>			Area 1 Area 1(cont) Area 1(cont) Area 2			
Cable Splicers			Benton Deschutes Lincoln (b) All			
Leadman Pole Sprayer			Coos Harney Linn (b) remaining			
<u>Group 2</u>			Crook Jefferson Wasco (b) counties			
Certified Lineman Welder			Curry Klamath (a) Wheeler (b)			
Heavy Line Equipment Man			Douglas Lane			
Lineman			a) Northern one-third b) South half			
Pole Sprayer			PLUMBERS & STEAMFITTERS/PIPEFITTERS			
<u>Group 3</u>			Area 1 (Both) 19.08 4.85			
Tree Trimmer			Area 2 (Both) 21.75 4.91			
<u>Group 4</u>			Area 3 (Both)			
Line Equipment Man			-on projects less than 20,000 sq. ft. 13.70 3.23			
<u>Group 5</u>			-on all other projects 17.50 4.00			
Head Groundman			Area 1 Area 2 Area 3			
Jackhammer Man			Baker Grant (b) All remaining counties			
Powderman			Harney (a) Morrow			
<u>Area 2</u>			Malheur Umatilla			
Malheur County			Wallowa			
			Union			
			a) Except Northwest Portion			
			b) Except Southwest Corner			
			POWER EQUIPMENT OPERATORS (see page 11)			

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	
ROOFERS			
Area 1:			
o Roofers	15.10	3.70	
o Handling coal tar pitch	16.61	3.70	
Area 2:			
o Roofers(a)	15.04	2.93	
Area 3:			
o Roofers	14.15	2.70	
(Add \$1.50 per hour to Fringe for work with irritable Bituminous material.)			
Area 4:			
o Roofers	14.75	3.35	
(Add \$2.00 per hour to Fringe for work with irritable Bituminous materials)			
Area 5:			
o Roofers	11.55	3.55	
(Add \$3.00 per hour to Fringe for work with irritable Bituminous materials)			
Area 1	Area 1(cont)	Area 2	Area 2(cont)
Baker	Multnomah	Benton	Klamath
Clackamas	Sherman	Coos	Lake
Clatsop	Tillamook	Crook	Lane
Columbia	Wasco	Curry	Lincoln
Jefferson	Washington	Deschutes	Linn
Gilliam	Wheeler	Douglas	Marion
Grant		Harney	Polk
Hood River		Jackson	Yamhill
		Josephine	
Area 3	Area 4	Area 5	
Malheur	Umatilla	Morrow	
	Union		
	Wallowa		
SHEETMETAL WORKERS			
Area 1	Building Trades		
	Journeyman	16.80	4.85
	Architectural (a)		
	Journeyman	14.64	4.12
Area 2		16.28	3.01
Area 3		18.86	4.11
Area 4		16.34	2.99
Area 1			
Benton	Gilliam	Linn	Tillamook
Clackamas	Grant	Marion	Wasco
Clatsop	Harney	Multnomah	Washington
Columbia	Hood River	Polk	Wheeler
Crook	Jefferson	Sherman	Yamhill
Deschutes	Lincoln		
Area 2	Area 3	Area 4	Area 4 (cont)
Baker	Morrow	Coos	Josephine
Malheur	Umatilla	Curry	Klamath
	Union	Douglas	Lake
	Wallowa	Jackson	Lane
a) Architectural work is <u>job-site</u> exterior work only on gutters, downspouts, scuppers, conductor heads, flashing, metal roofing and siding, including job-site roll formed, decking, louvers, gravity type ventilators, fascia, soffits, window wall, column covers, pre-engineered metal buildings and sandwich type wall systems such as Alucobond, Robertson, Molenco or Inryco.			

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	
SOFT FLOOR LAYERS			
Area 1	15.15	3.42 + b	
Area 2	12.99	2.01	
b) plus 4% of basic hourly rate for employees with less than one year of service, 6% for those with more than one year.			
Area 1 - All counties except Malheur County			
Area 2 - Malheur County			
SPRINKLER FITTERS	20.30	3.90	
TENDERS TO MASON TRADES			
Tenders for Bricklayers, Tile Setters, Marble Setters and Terrazzo Workers; Topping for Cement Finishers and Mortar Mixers.			
	14.71	3.90	
TENDERS TO PLASTERERS			
	14.22	3.90	
TILE SETTERS			
Area 1	17.10	3.55	
Area 2	16.05	2.65	
Area 1	Area 1(cont)	Area 2	Area 2(cont)
Baker	Polk	Benton	Josephine
Clackamas	Sherman	Coos	Klamath
Clatsop	Tillamook	Crook	Lake
Columbia	Umatilla	Curry	Lane
Gilliam	Union	Deschutes	Lincoln
Hood River	Wallowa	Douglas	Linn
Malheur(a)	Wasco (b)	Grant	Malheur (c)
Marion	Washington	Harney	Wasco (d)
Morrow	Yamhill	Jackson	Wheeler
Multnomah		Jefferson	
a) North half c) South half			
b) North of Maupin d) Maupin and south thereof			
TILE & TERRAZZO HELPERS			
Area 1	13.32	2.20	
Area 1			
Baker	Hood River	Sherman	Wallowa
Clackamas	Gilliam (a)	Tillamook	Wasco (b)
Clatsop	Morrow	Umatilla	Washington
Columbia	Multnomah	Union	Yamhill (a)
Malheur (North Half)	Yamhill (North Half)		
Wasco (North of Maupin)			
TRUCK DRIVERS (see Page 11)			
WELDERS; RIGGERS			
Receive rate for craft performing operation to which welding and rigging are incidental.			

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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CARPENTERS, LABORERS, POWER EQUIPMENT OPERATORS and TRUCK DRIVERS

Under the following circumstances a rate lower than the basic hourly rate may be used for these four trades:

The lower rate applies to all public works projects of less than \$1.0 million. The lower rate also applies to projects under \$1.5 million involving the construction, reconstruction, major renovation or painting of buildings, bridges or docks. (When the amount is between \$1.0 and \$1.5 million the work done on a building, bridge or dock must constitute at least 20% of the total project price to use the lower rates.) In determining the \$1.5 million figure, do not include the cost of underground utilities (i.e., the amount of the contract dedicated to facilities for electricity, water, gas, sewerage including storm water, and communications) which are five feet or more outside of and away from the building, bridge or dock and are subordinate and incidental to the major purpose of the project.

NOTE: In determining whether or not the lower rates are applicable, consider the total project cost, and not the cost of any individual contract (or schedule) within that project.

ZONE RATES AND DESCRIPTIONS

Zone Differential for Carpenters (Groups 1 and 2 only), Laborers, Power Equipment Operators and Truck Drivers

(Add to Zone 1 Rate)

Zone 2	.65
Zone 3	1.15
Zone 4	1.70
Zone 5	2.75

Zone 1: Projects within 30 miles of City Hall in the Cities listed below.

Zone 2: More than 30 miles but less than 40 miles.

Zone 3: More than 40 miles but less than 50 miles.

Zone 4: More than 50 miles but less than 80 miles.

Zone 5: More than 80 miles.

Cities

Albany	Eugene	Longview	Portland
Astoria	Goldendale	Madras	Port Orford
Baker	Grants Pass	Medford	Reedsport
Bend	Hermiston	McMinnville	Roseburg
Brookings	Hood River	Newport	Salem
Burns	Klamath Falls	Oregon City	The Dalles
Coos Bay	LaGrande	Ontario	Tillamook
Corvallis	Lakeview	Pendleton	

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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CARPENTERS (See preceding column for explanation of when the lower rates may be used)

LESS THAN
100% 100%

Zone 1 (Base Rate):*

o Group 1	14.79	17.77	3.67
o Group 2	14.91	17.92	3.67
o Group 3	14.99	18.02	3.67
o Group 4	15.11	18.17	3.67
o Group 5	14.87	17.87	3.67
o Group 6	14.95	17.97	3.67

*NOTE: Zone rates for Carpenter Groups 1 and 2 are listed in the preceding column. Zone rates for Carpenter Groups 3 through 6 are listed below.

Zone Differential for Groups 3 through 6 Only (Add to Zone 1 Rate)

Zone 2	.85
Zone 3	1.25
Zone 4	1.70
Zone 5	1.95
Zone 6	2.80

Zones for Groups 3, 4, 5 and 6 Carpenters are determined by the distance between the project site and either 1) the worker's residence or 2) City Hall of a reference city for the appropriate group shown below, whichever is closer.

- Zone 1: 0-30 miles.
- Zone 2: 30-40 miles.
- Zone 3: 40-50 miles.
- Zone 4: 50-60 miles.
- Zone 5: 60-70 miles.
- Zone 6: Over 70 miles.

Cities for Groups 3 and 4

Corvallis	Longview	North Bend	The Dalles
Eugene	Medford	Portland	

Cities for Groups 5 and 6

Astoria	Eugene	Newport	Salem
Bend	Klamath Falls	Portland	The Dalles
Coos Bay	Medford	Roseburg	

Group 1

Auto. Nailing Machine Carpenters
Form Stripper
Manhole Builders

Group 2

Floor Layers & Finishers
Stationary Power Saw Operators
Wall & Ceiling Insulators

Group 3

Millwrights
Machine Erectors

Group 4

Certified Welders

Group 5

Bridge, Dock & Wharf Builders
Piledrivermen

Group 6

Boom Men

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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LABORERS¹

	LESS THAN 100%	100%	
Zone 1 (Base Rate): ²			
o Group 1	11.17	13.34	4.90
o Group 2	11.45	13.69	4.90
o Group 3	11.69	13.99	4.90
o Group 4	11.89	14.24	4.90
o Group 5	9.00	10.00	4.90
o Group 6	8.50	8.50	4.90

Group 1

Asphalt Plant Laborers	General Laborer ***
Asphalt Spreaders	Guardrail, Median
Batch Weighman	Rail (c)
Broomers	Leverman or Aggregate
Brush Burners/Cutters	Spreader (d)
Carpenter Tender	Material Yard Man (e)
Car & Truck Loaders	Powderman Tender
Change-House Man	Railroad Track Laborers
Choke Setter	Ribbon Setters (f)
Chipper Operator (a)	Rip Rap Man (Hand
Clean-up Laborers ***	Placed)
Concrete Laborers	Road Pump Tender
Culvert (hand labor)	Sewer Laborer
Curing, concrete	Signalman
Demolition, wrecking	Skipman
and moving ***	Slopers
Driller Tender	Sprayman
Dry-shack Man	Stake Chaser
Dumpers, road oiling	Stockpiler
crew	Timber Faller/Bucker
Dumpmen for grading	(Hand Labor)
crew	Toolroom Man (Job site)
Elevator Feeders	Tunnel Bull Gang
Fine Graders	(Above Ground)
Fire Watch	Weight-Man-Crusher (g)
Form Strippers (b)	

- a) Pittsburg or similar types
- b) Not swinging stages
- c) Reference Post, Guide Post, or Right-of Way Marker
- d) Flaherty, Loading Spotters or similar types
- e) Including electrical
- f) Including steel forms
- g) Aggregate when used

*** Laborers can tear off roofs, clean up or handle roofing materials only when at least one new story is added or in demolition work, where no reroofing will occur.

Group 2

Applicators (a)	Gunite or Pot Tender
Brush Cutters (b)	Handlers/Mixers (f)
Burners	Post Hole Digger, Air,
Choker Splicer	gas or electric
Clary Power Spreader(c)	Power Tool Operators (g)
Clean-up Nozzlemans	Sand Blasting (wet)
Green Cutter (d)	Stake Setter
Concrete Power Buggyman	Tampers
Crusher Feeder	Tunnel Muckers/Brakeman/
Demolition/Wrecking (e)	Concrete Crew/Bull
Grade Checker	Gang (underground)
Granite Nozzlemans	
Tender	

(Group 2 continues top of next column.)

LABORERS (continued)

- a) Including Pot Tender for same, applying protective material by hand or nozzle on utility lines or storage tanks on project
- b) Power saw
- c) And similar types
- d) Concrete, rock, etc.
- e) Charred Materials
- f) Of all materials of an irritating nature including cement and lime
- g) Includes, but not limited to: Dry Pack Machine, Jackhammer, Chipping Guns, Paving Breakers, Vibrators (less than 4" diameter)

Group 3

Asbestos Removal	Power Saw Operators (d)
Asphalt Rakers	Pumpcrete Nozzlemans
Bit Grinder	Sand Blasting (dry)
Concrete Saw Operator	Sewer Pipe Layers
Drill Doctor	Sewer Timberman
Drill Operators (a)	Track Liners (e)
Gunite Nozzlemans	Tugger Operator
High Scales,	Tunnel-Chuck Tenders,
Strippers, Drillers(b)	Nippers, Timberman
Laser Beam (c)	Vibrator (4" and larger)
Manhole Builder	Water Blaster
Powdermen	Welder

- a) Air Tracks, Cat Drills, Wagon Drills, Rubber-mounted drills, and other similar types
- b) Covers work in Swinging Stages, chairs or belts, under extreme conditions unusual to normal drilling, blasting, barring-down, or sloping and stripping
- c) Pipe laying, applicable when employee assigned to move, set up, align Laser Beam.
- d) Bucking and falling
- e) Anchor Machines, Ballast Regulators, Multiple Tampers, Power Jacks

Group 4

Laser Beam (Tunnel), applicable when employee assigned to move, set-up, align laser beam
Tunnel Miners
Tunnel Powderman

Group 5**

Flagger

Group 6**

Fence Builder Landscaping or planting laborer

**Groups 5 and 6 were formerly a single group. Note the difference in rates between the two groups now.

¹ See page 11 for description of when rates less than 100% may be used

² See page 11 for zone rates and descriptions

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
<u>POWER EQUIPMENT OPERATORS (continued)</u>			<u>POWER EQUIPMENT OPERATORS (continued)</u>		
<u>Group 6</u>			Drill Cat Operator Stationary Drag Scraper		
Asphalt Burner and Reconditioner	Concrete Spreader		Drill Doctor		Surface Heater and Planer
Cast-In Place Pipe Laying Machine	Curb Machine (b)		Drill Doctor (Bit Grinder)		Tractor (g)
Concrete Finishing Machine (A)	Loaders (c)		Grizzly Crusher		Tractor (h)
Concrete Joint Machine	Maginnis Internal Full Slab Vibrator		a) 5 ton capacity or less		Trench Machine (i)
Concrete Paving Machine	Pavement Grinder and/or Grooving Machine (d)		b) Or similar type crane-hoist		
Concrete Planer	Rock Spreaders (e)		c) And similar types		
a) Clary, Johnson, Bidwell, Burgess, Bridges Deck or similar type			d) All types		
b) Mechanical Berm, Curb and/or Gutter			e) Track type 3/8 cu. yds.		
c) Rubber-tired type, 2 1/2 cu. yds. and under			f) Front end and overhead, 2 1/2 cu. yds. and under 4 cu. yds.		
d) Riding type			g) With boom attachments		
e) Self-propelled			h) Rubber-tired over 50 H.P. flywheel		
			i) Maximum digging capacity over 3 ft. depth		
<u>Group 7</u>			<u>Group 10</u>		
A-Frame Truck (a)	Grouting Machine		Barge Operator, self-loading		Compactor, multi-engine Dozers and Pushers (c)
Ballast Regulator	Hydraulic Backhoe (e)		Bulldozer (a)		Driller (d)
Ballast Tamper (b)	Locomotive, 40 tons & over		Cable Plow (any type)		Jack Operator/Elevating Barges
Beltcrete	Pot Rammer		Combination H.D. Mechanic-Welder (b)		
Boom Truck	Pumpcrete Operator (any type)		a) Twin engine (TC 12 and similar)		
Churn Drill/ Earth Boring Machine	Roller (any asphalt mix)		b) With dispatcher and/or required to do both		
Concrete Mixer (c)	Shuttle Car		c) Rubber-tired (Michigan, Cat, Hough type)		
Concrete Pump	Tie Spacer		d) Percussion, Diamond, Core, Cable, Rotary and similar type		
Elevating Grader (d)	Tower Mobile Operator				
Fuller-Kenyon and similar	Track Liner				
a) Double drum			<u>Group 11</u>		
b) Multiple purpose			Clamshell, Hoe, etc. (a)		Dragline
c) Single drum, five bag capacity and over			Combination Guardrail Machines (b)		Grade-Alls (a)
d) Tractor towed requiring operator or grader			Concrete Breaker		Mixer Mobile
e) Wheel type 3/8 cu. yds. and under with or without front end attachment 2 1/2 cu. yds. and under (Ford, John Deere, Case type)			Crane Operator (c)		Mucking Machine (tunnel) Shovel
			a) Under 1 cu. yd.		
			b) i.e., Punch, Auger, etc.		
			c) 25 tons and under		
<u>Group 8</u>			<u>Group 12</u>		
Asphalt Paver Operator	Diesel-Electric Engineer (c)		Batch Plant and/or Wet Mix (a)		Paddle Wheel, Auger Type Piledriver (not crane type)
Batch Plant and/or wet-mix (a)	Generator Operator		Blade Mounted Spreaders (b)		Reinforced Tank Banding Machine (K-17 or similar)
Belt Loader (b)			Blade Operator		Rubber-tired Scraper (d)
a) One and two drum			Elevating Loader (c)		Shield Operator
b) Kolman and Ko Cal types			Hoist, two or more drums		Single Scraper (e)
c) Plant, Crusher, Generator, Floating			a) 3 units or more		
			b) Ulrich and similar types		
			c) Athey and similar		
			d) Single and twin engine		
			e) With Push-pull attachments, self loader		
<u>Group 9</u>					
Asphalt Plant Operator	Guardrail Punch and Auger (d)				
Bolt-Threading Machine	H.D. Mechanic and Welder				
Boom-Type Lifting Device (a)	Hammer Operator				
Boring Machine	Hydraulic Backhoe (e)				
Bulldozer	Lift Slab Machine				
Cherry Picker (a)(b)	Loader (f)				
Chicago Boom (c)	Machine Tool Operator				
Compactor with Blade	Pipe Cleaning, Doping, Bending and wrapping Machines				
Concrete Cooling Machine	Side-boom Cat				
Crusher Plant Operator					
(Group 9 continues top of next column.)					

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS	TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
POWER EQUIPMENT OPERATORS (continued)			POWER EQUIPMENT OPERATORS (continued)		
<u>Group 13</u>			a) Over 100 ton and including 200 ton		
Back Filling Machine	Derrick, under 100 tons		b) Derrick Barge, 80 ton, but less than 150 ton		
Blade (a)	Elevating Grader (e)		c) 12 cu. yds. and over		
Blade, multi-engine	Floating Clamshell, etc. (f)		d) 5 cu. yds. and over		
Blade Operator, finish	Floating Crane (g)		e) Over 80 ton and including 150 ton		
Bridge Crane	Grade-all, 1 cu. yd.				
Operator (b)	and over		<u>Group 18</u>		
Cableway Operator (c)	Hoist (h)		Band Wagons (a)	Wheel Excavator (d)	
Concrete Paving Road	Piledriver Operator		Crane (b)	Whirley (e)	
Mixer	Shovel, etc (i)		Floating Crane (c)		
Crane (d)			a) In conjunction with Wheel Excavator		
a) Externally controlled by electronic, mechanical hydraulic means			b) Over 200 ton		
b) Locomotive Crane, Gantry and Overhead			c) 150 ton but less than 250 ton		
c) 25 ton and over			d) Over 200 ton		
d) Over 25 ton and including 40 tons			e) 150 ton and over		
e) Operated by Tractor Operator, Sierra, Eculid, or similar					
f) Under 3 cu. yds.			<u>Group 19</u>		
g) Derrick Barge, less than 30 ton			Floating Crane (a)	Remote Controlled Earth Moving Equipment	
h) Stiff Leg, Guy Derrick, or similar, 50 tons and over			Helicopter (b)	Under Water Equipment (c)	
i) 1 cu. yd. and less than 3 cu. yds.			a) 250 ton and over		
			b) When used in erecting work		
<u>Group 14</u>			c) Remote or otherwise		
Rubber-tired Scraper (a)					
Tower Crane Operator			<u>TRUCK DRIVERS¹</u>		
a) With Tandem Scrapers, self-loading, Paddle Wheel, Auger type, finish and/or 2 or more units					
				LESS THAN	
				100%	100%
<u>Group 15</u>			Zone 1 (Base Rate): ²		
Loader, 4 cu. yds., but less than 6 cu. yds.			o Group 1	13.09	15.73 4.70
Rock Hound Operator			o Group 2	13.13	15.78 4.70
			o Group 3	13.17	15.83 4.70
<u>Group 16</u>			o Group 4	13.21	15.88 4.70
Autograder or "Trimmer"	Floating Crane (Derrick Barge) (c)		o Group 5	13.25	15.93 4.70
Automatic Concrete Slip Form Paver	Loader (d)		o Group 6	13.33	16.03 4.70
Cableway (a)	Rubber-tired Scraper (e)		o Group 7	13.41	16.13 4.70
Concrete Canal Line Crane (b)	Shovel (f)		o Group 8	13.49	16.23 4.70
Floating Clamshell, etc., 3 cu. yds. and over	Tandem Bulldozer (g)		o Group 9	13.57	16.33 4.70
	Wheel Excavator (h)		o Group 10	13.71	16.50 4.70
	Whirley, 80 ton and under		o Group 11	13.79	16.60 4.70
a) 25 tons and over			o Group 12	13.87	16.70 4.70
b) Over 40 ton and including 100 ton			o Group 13	13.95	16.80 4.70
c) 30 ton but less than 80 ton			o Group 14	14.03	16.90 4.70
d) 6 cu. yds., but less than 12 cu. yds.					
e) With Tandem Scrapers, multi-engine			<u>Work</u>		<u>Group</u>
f) 3 cu. yds., but less than 5 cu. yds.			A-Frame or Hydra-lift Truck w/load bearing surface.		2
g) Quad-nine and similar			Battery Rebuilder		1
h) Under 750 cu. yds. per hour			Bus or Man-Haul Driver.		1
			Concrete Buggies (Power operated)		1
<u>Group 17</u>			Drivers and Helpers handling Sacked Cement--add 15¢ per hour		
Canal Trimmer	Loader (c)		Dump Trucks, Side, End and Bottom Dumps, including Semi-Trucks and trains or combinations thereof:		
Crane (a)	Shovel, etc. (d)		6 cu. yds. and under		1
Floating Crane (b)	Whirley (e)		Over 6 cu. yds. and inc. 10 cu. yds		3
			Over 10 cu. yds. and inc. 20 cu. yds		6
			Over 20 cu. yds. and inc. 30 cu. yds		7
(Group 17 continues top of next column)					

¹ See page 11 for description of when rates less than 100% may be used.
² See page 11 for zone rates and descriptions.

TRADES	BASIC HOURLY RATE	FRINGE BENEFITS
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TRUCK DRIVERS (continued)

Over 30 cu. yds. and inc. 40 cu. yds . . .	8	
Over 40 cu. yds. and inc. 50 cu. yds . . .	9	
Over 50 cu. yds. and inc. 60 cu. yds . . .	10	
Over 60 cu. yds. and inc. 70 cu. yds . . .	11	
Over 70 cu. yds. and inc. 80 cu. yds . . .	12	
Over 80 cu. yds. and inc. 90 cu. yds . . .	13	
Over 90 cu. yds. and inc. 100 cu. yds . . .	14	
Dumpsters or Similar Equipment--all sizes	5	
Flaherty Spreader Driver or Leverman.	4	
Lift Jitneys, Fork Lifts--all sizes--used in loading, unloading & transporting material on job site.	1	
Loader and/or Leverman on Concrete Dry Batch Plant, manually operated.	1	
Low Bed Equipment, Flat Bed Semi-Truck and Trailer or Doubles transporting equipment or wet or dry materials	4	
Lubrication Man, Fuel Truck Driver, Driver, Tireman, Wash Rack, Steam Cleaner or combination.	2	
Lumber Carrier, Driver--Straddle Carrier--used in loading, unloading and transportation of material on job site.	4	
Oil Distributor Driver or Leverman.	4	
Pilot Car	1	
Slurry Truck Driver or Leverman	3	
Solo Flat Bed and Misc. Body Trucks--0-10 tons	1	
Transit Mix and Wet or Dry Mix Trucks:		
5 cu. yds. and under	1	
Over 5 cu. yds. and inc. 7 cu. yds	5	
Over 7 cu. yds. and inc. 9 cu. yds	6	
Over 9 cu. yds. and inc. 11 cu. yds	7	
Over 11 cu. yds. and inc. 13 cu. yds	8	
Over 13 cu. yds. and inc. 15 cu. yds	9	
Team Drivers.	2	
Tireman, full-time basis.	3	
Truck Helper.	1	
Truck Mechanic--Welder--Body Repairman.	6	
Truck Mechanic Helper	1	
Water Wagons (Rated Capacity) up to:		
1600 gallons	1	
1600 to 3000 gallons	3	
3000 to 5000 gallons	4	
5000 to 7000 gallons	6	
7000 to 10,000 gallons	7	
10,000 to 15,000 gallons	8	
Winch Truck--takes classification of truck on which winch is mounted		

¹ See page 11 for description of when rates less than 100% may be used.
² See page 11 for zone rates and descriptions.

BUREAU OF LABOR AND INDUSTRIES - WAGE AND HOUR DIVISION

INSTRUCTIONS FOR COMPLETING PAYROLL AND CERTIFIED STATEMENT FORM, WH-38 (Rev 3/84)

General: This form meets needs resulting from the 1983 amendments to the Prevailing Wage Rate Law. Under this amended law, the contractor is required to pay not less than fringe benefits as predetermined by the Bureau of Labor and Industries, in addition to payment of not less than the predetermined rates. The contractor's obligation to pay fringe benefits may be met either by payment of the fringes to the various plans, funds, or programs or by making these payments to the employees as cash in lieu of fringes.

This form provides for the contractor's showing of the payroll and all monies paid to the employees, whether as basic rates or as cash in lieu of fringes and provides for the contractor's representation in the certified statement that he/she is paying to others fringes required by the contract and not paid as cash in lieu of fringes. Detailed instructions concerning the preparation of the form follow:

Fill in all boxes at top of form. Be sure to enter the date the contract was first advertised for bid by the contracting agency. This date should appear on the bid documents.

Column 1 - Name, Address, and Social Security number of Employee: The employee's full name must be shown on each payroll submitted. The employee's address must also be shown on the first payroll submitted. The address need not be shown on subsequent payrolls unless the address changes. Although not required, space is available in the name and address section so that Social Security numbers may be listed.

Column 2 - Withholding Exemptions: This column is merely inserted for the employer's convenience and is not a requirement.

Column 3 - Work Classifications: List classification descriptive of work actually performed by employees. Include group number when appropriate. Consult classifications and minimum wage schedule set forth in contract specifications. If additional classifications are deemed necessary, see Contracting Officer or Agency representative. Employee may be shown as having worked in more than one classification provided accurate breakdown of hours so worked is maintained and shown on submitted payroll by use of separate line entries.

Column 4 - Hours Worked: Enter as overtime hours all hours worked in excess of 8 hours per day, all hours worked on Saturday and Sunday and hours worked on legal holidays as defined in ORS 279.334.

Column 5 - Total: Self-explanatory.

Column 6 - Rate of Pay, including Fringe Benefits: In straight time box, list actual hourly rate paid the employee for straight time worked plus any cash in lieu of fringes paid the employee. When recording the straight time hourly rate, any cash paid in lieu of fringes may be shown separately from the basic rate, thus \$12.50/2.35. This is of assistance in correctly computing overtime. See "Fringe Benefits" below. Payment of not less than time and one half the basic or regular rate paid is required for overtime under ORS 279.334. In addition to paying not less than the predetermined rate for the classification in which the employee works, the contractor shall pay to approved plans, funds, or programs or shall pay as cash in lieu of fringes amounts predetermined as fringe benefits in the wage decision made part of the contract. See "FRINGE BENEFITS" below.

FRINGE BENEFITS -- Contractors who pay all required fringe benefits: A contractor who pays fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Commissioner of the Bureau of Labor and Industries shall continue to show on the payroll the basic cash hourly rate and overtime rate paid to employees. Such a contractor shall check paragraph 4(a) of the Certified Statement to indicate that he/she is also paying to approved plans, funds, or programs not less than the amount predetermined as fringe benefits for each craft. Any exceptions shall be noted in Section 4(c).

Contractors who pay no fringe benefits: A contractor who pays no fringe benefits shall pay to the employee, and insert in the straight time hourly rate column of the payroll, an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringes, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on basic or regular rate, plus the required cash in lieu of fringes at the straight time rate. In addition, the contractor shall check paragraph 4(b) of the Certified Statement to indicate that he/she is paying fringe benefits in cash directly to employees. Any exceptions shall be noted in Section 4(c).

Use of Section 4(c), Exceptions

Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination required is obliged to pay the deficiency directly to the employees as cash in lieu of fringes. Any exceptions to Section 4(a) or 4(b), whichever the contractor may check, shall be entered in Section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid the employee as cash in lieu of fringes and the hourly amount paid to plans, funds, or programs as fringes. The contractor shall pay, and shall show that he/she is paying to each such employee for all hours (unless otherwise provided by applicable determination) worked on the project an amount not less than the predetermined rate plus cash in lieu of fringes as shown in Section 4(c). The rate paid and amount of cash paid in lieu of fringe benefits per hour should be entered in column 6 on the payroll. See paragraph on "Contractors who pay no fringe benefits" for computation of overtime rate.

Column 7 - Gross Amount Earned: Enter gross amount earned on this project. If part of the employees' wage was earned on projects other than the project described on this payroll, enter in column 7 first the amount earned on the project and then the gross amount earned on all projects, thus \$63.00/120.00.

Column 8 - Deductions: Four columns are provided for showing deductions made. If more than four deductions should be involved, use first 3 columns; show the balance of deductions under "Other" column; show actual total under "Total Deductions" column; and in the attachment to the payroll describe the deductions contained in the "Other" column. All deductions must be in accordance with the provisions of ORS 652.610. If the employee worked on other jobs in addition to this project, show actual deductions from gross wage, but indicate that deductions are based on gross wages.

Column 9 - Net Wages Paid for Week: Self-explanatory.

Certified Statement Required by ORS 279.354: While this form need not be notarized, the Certified Statement is subject to the penalties provided by ORS 279.990. Accordingly, the party signing this required statement should have knowledge of the facts represented as true.

Space has been provided between items (1) and (2) of the Statement for describing any deductions made. If all deductions made are adequately described in the "Deductions" column above, state "See Deductions column in this payroll." See paragraph entitled "FRINGE BENEFITS" above for instructions concerning filling out paragraph 4 of the Statement.

CERTIFIED STATEMENT

I, _____, _____
 (Name or signatory party) (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

_____ on the _____
 (Contractor, subcontractor or surety) (Building or work)

_____ ; that during the payroll commencing on the _____
 day of _____, 19____, and ending the _____ day of

_____, 19____, all persons employed on said project have been
 paid the full weekly wages earned, that no rebates have been or will be made
 either directly or indirectly to or on behalf of said _____

 (Contractor, subcontractor or surety)

from the full weekly wages earned by any person and that no deductions have been
 made either directly or indirectly from the full wages earned by any person,
 other than permissible deductions as specified in ORS 652.610, and described
 below:

(2) That any payrolls otherwise under this contract required to be submitted
 for the above period are correct and complete; that the wage rates for workers
 contained therein are not less than the applicable wage rates contained in any
 wage determination incorporated into the contract; that the classifications set
 forth therein for each worker conform with work performed.

(3) That any apprentices employed in the above period are duly registered in a
 bona fide apprenticeship program registered with a State apprenticeship agency
 recognized by the Bureau of Apprenticeship and Training, United States Department
 of Labor, or if no such recognized agency exists in a State, are registered with
 the Bureau of Apprenticeship and Training, United States Department of Labor.

FORM WH-38 (3/84)

(4) That:

- (a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS OR PROGRAMS
 In addition to the basic hourly wage rates paid to each worker listed
 in the above referenced payroll, payments of fringe benefits as
 listed in the contract have been or will be made to appropriate
 programs for the benefit of such employees, except as noted in
 Section 4(c) below.
- (b) WHERE FRINGE BENEFITS ARE PAID IN CASH
 Each worker listed in the above referenced payroll has been paid,
 as indicated on the payroll, an amount not less than the sum of
 the applicable basic hourly wage rate plus the amount of the
 required fringe benefits as listed in the contract, except as noted
 in Section 4(c) below.
- (c) EXEMPTIONS

EXCEPTION (CRAFT)	EXPLANATION
REMARKS	

I have read this certified statement, know the contents thereof and it is
 true to my knowledge.

NAME AND TITLE	SIGNATURE
<input type="checkbox"/> Contractor	<input type="checkbox"/> Subcontractor <input type="checkbox"/> Surety

File this form with the contracting agency and send a true copy to the
 Bureau of Labor and Industries, 1400 SW Fifth Ave., Portland, OR 97201

PLANNED PUBLIC IMPROVEMENT SUMMARY

FISCAL YEAR _____ - _____

PAGE _____ OF _____

(Name of State or Local Government Agency)

Project Number	Project Name	Project Type	Project Location	Estimated Project Cost	Agency or Contract Work

ORS 279.023 generally states that not less than 30 days prior to adoption of its budget for the subsequent budget period, each public agency shall prepare and file with the Commissioner of the Bureau of Labor and Industries a list of every public improvement known to that agency that the agency plans to fund in the budget period... If the agency decides to use its own equipment and personnel for constructing projects estimated to cost more than \$50,000, the agency shall show that the decision conforms to the policy of the State of Oregon that public agencies shall make every effort to construct public improvements at the least cost to the public agency, and the public agency shall cause to be kept and preserved a full, true and accurate account of the costs of performing the work including all engineering and administrative expenses and a reasonable estimate of the cost, including investment cost, of the equipment used. NOTE: This Improvement Summary together with the project estimate and least cost determination constitutes a public record available in the usual manner for public review or copying. Mail a copy of this public improvement summary to: Wage and Hour Division, 306 State Office Building, Portland, Oregon 97201

NOTICE OF AWARD OF PUBLIC WORKS CONTRACT
(For Use by Public Agency in Complying with ORS 279.363)

1. PRIME CONTRACTOR

Name _____

Address _____

City, State, Zip _____

Phone Number () _____

2. CONTRACTING AGENCY

Name _____

Address _____

City, State, Zip _____

Phone Number () _____

Submit this completed notice to:
Wage and Hour Division,
Prevailing Wage Section,
1400 S.W. 5th Avenue - Room 306
Portland, Oregon 97201

FORM WH-81 (Rev. 6/88)

3. CONTRACT INFORMATION

A. Contract Name and Number:

B. Location of work: _____

C. County: _____

D. Amount of the Award: \$ _____

E. Source of Funds: (i.e. 100%
Federal Funds; 50/50,
Federal, State; 100% local)

F. Date Contract Awarded: _____

G. Date Contract Specifications
Advertised for Bid:

NOTICE OF AWARD OF PUBLIC WORKS CONTRACT
(For Use by Public Agency in Complying with ORS 279.363)

1. PRIME CONTRACTOR

Name ZAK CONSTRUCTION COMPANY

Address 1234 N.W. Camille Street

City, State, Zip Alexandra, OR 97201

Phone Number (503) 12-4567

2. CONTRACTING AGENCY

Name LOPEZ IRRIGATION DISTRICT

Address 1234 N.W. Shannon Court

City, State, Zip Jamestown, OR 97201

Phone Number (503) 987-6543

Submit this completed notice to:
Wage and Hour Division,
Prevailing Wage Section,
1400 S.W. 5th Avenue - Room 306
Portland, Oregon 97201

FORM WH-81 (Rev. 6/88)

3. CONTRACT INFORMATION

A. Contract Name and Number:
Dam Repair 100-H

B. Location of work: Becca, Oregon

C. County: Malheur

D. Amount of the Award: \$ 25,000

E. Source of Funds: (i.e. 100%
Federal Funds; 50/50,
Federal, State; 100% local)

100% State

F. Date Contract Awarded: July 16, 1985

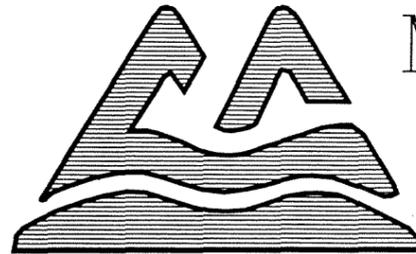
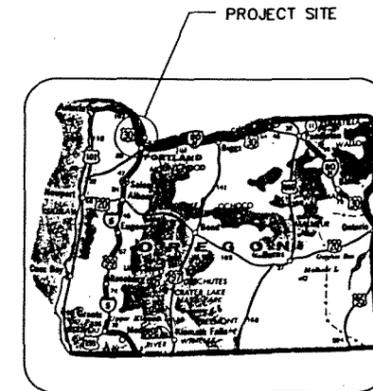
G. Date Contract Specifications
Advertised for Bid:
July 10, 1985

SAMPLE

DRAWING INDEX

DWG. NO.	DRAWING TITLE
1	TITLE SHEET
2	GENERAL LAYOUT
3	CONSTRUCTION TRAFFIC SIGNING
4	LIFT SPAN SIDEWALK REPLACEMENT
5	SECTION AND DETAILS
6	SIDEWALK DECK, EDGE BEAM DETAILS
7	DECK DRAIN ASSEMBLY

DWG. NO.	REFERENCE DRAWINGS
T30	STRESS DIAGRAM
T33	FLOOR BEAMS
57	MISCELLANEOUS DETAILS
L64	GENERAL DETAILS, PIER 4
L76	DECK ON FIXED SPANS
69	METAL HANDRAIL DETAILS
2126	BARRICADES
2200	TEMP. PROT. & DIR. OF TRAFFIC
S-1	STD. SIGN DETAILS INSTALLATION
S-5	STD. SIGN DETAILS REGULATORY SIGNS
S-6	STD. SIGN DETAILS WARNING SIGNS
S-7	STD. SIGN DETAILS WARNING SIGNS
S-12	STD. SIGN DETAILS CONSTR. SIGNS



MULTNOMAH COUNTY
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 TRANSPORTATION DIVISION

BURNSIDE BRIDGE SIDEWALK REHABILITATION

COUNTY ENGINEER
 LARRY F. NICHOLAS



VICINITY MAP

Rev. No. Date Revision		MULTNOMAH COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION 1620 S.E. 190th Ave. Portland, Ore. LARRY F. NICHOLAS - COUNTY ENGINEER	
Designed DHP/RM Drawn HOLT Checked WAJ		BURNSIDE BRIDGE SIDEWALK REHABILITATION	
Date 5/89 Scale NONE BR.# 0511		Sht 1 of 7	

TO: DAILY JOURNAL OF COMMERCE

Please run the following Classified Advertisement as indicated below, under your "CALL FOR BID" section

MULTNOMAH COUNTY

Proposals Due: June 15, 1989 at 2:00 P.M.

Proposal No. RFP #9S0623

Sealed proposals will be received by the Director of Purchasing, 2505 S.E. 11th Ave., Portland, OR 97202 for:

A yearly contract with Multnomah County Animal Control for night services for the pick-up and transportation of animals.

Multnomah County reserves the right to reject any or all proposals.

Specifications may be obtained at: Multnomah County Purchasing Section

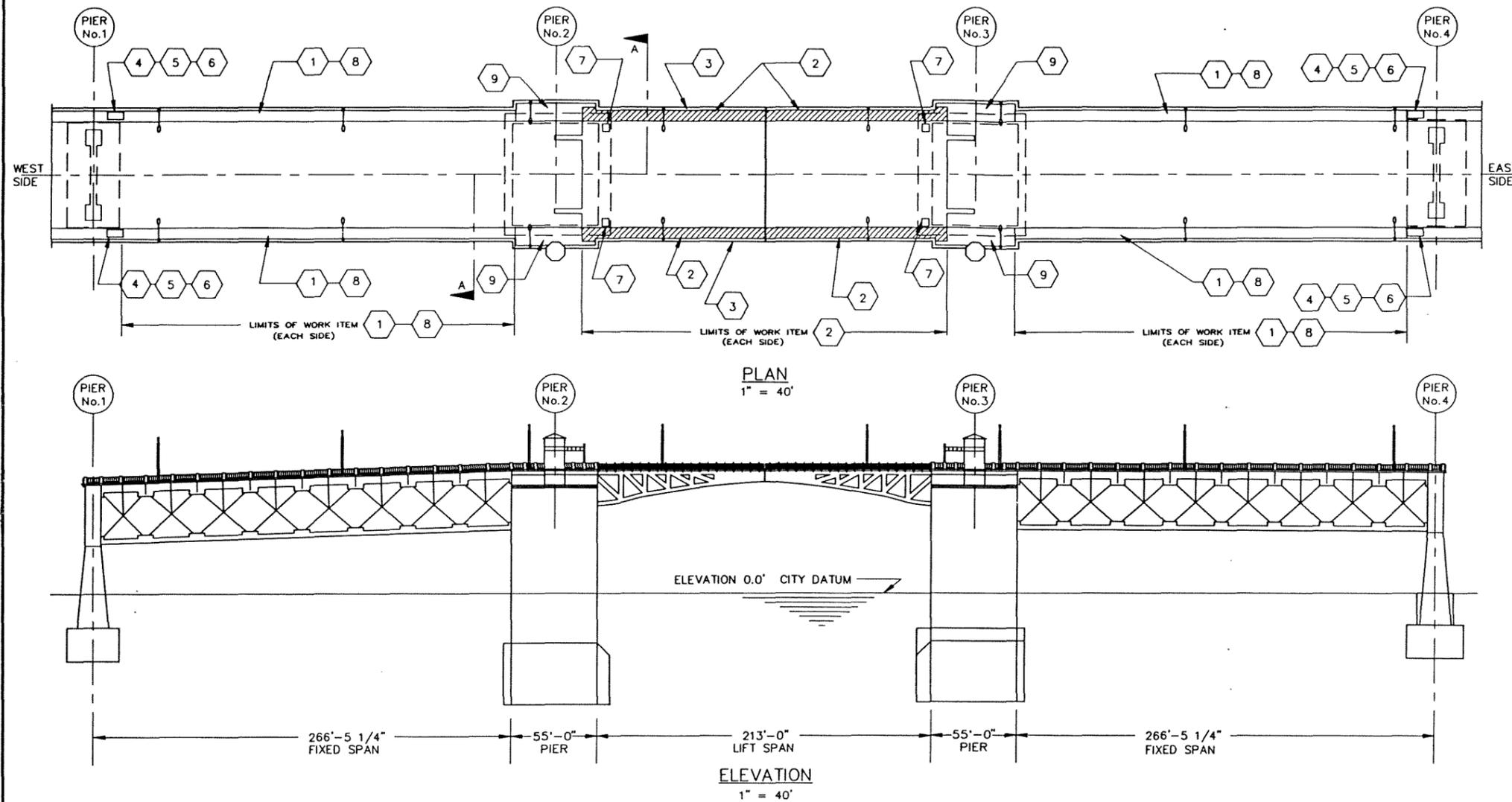
2505 S.E. 11th Avenue

Portland, OR 97202

(503) 248-5111

Lillie M. Walker, Director
Purchasing Section

PUBLISH: June 1, 1989



WORK ITEM	DESCRIPTION	DETAILS SHEET No.
1	FIXED SPAN SIDEWALK OVERLAY USING STEEL GRATING.	5
2	LIFT SPAN SIDEWALK DECK REPLACEMENT	4
3	LIFT SPAN STEEL HAND RAIL REHABILITATION	4
4	REHABILITATION OF SIDEWALK SLAB ADJACENT TO PIER NO. 1 AND PIER NO. 4	5, 6
5	REPAIR END DIAPHRAGM AND EDGE BEAM BEARING SUPPORT AT PIERS NO. 1 AND NO. 4	6
6	REMOVE AND CAST NEW SIDEWALK SLAB AT FIRST PANEL ADJACENT TO PIERS NO. 1 AND NO. 4.	6
7	INSTALLATION OF NEW DECK DRAIN ASSEMBLIES (4 REQUIRED)	7
8	REPAIR CRACKS IN EDGE BEAM WITH EPOXY INJECTION ON FIXED SPAN SIDEWALKS. REMOVE AND REPAIR SPALLED AREAS ON EDGE BEAM AND UNDERSIDE OF FIXED SPAN SIDEWALKS.	5
9	PIER SIDEWALK OVERLAY AT PIERS 2 & 3.	4

GENERAL NOTES:

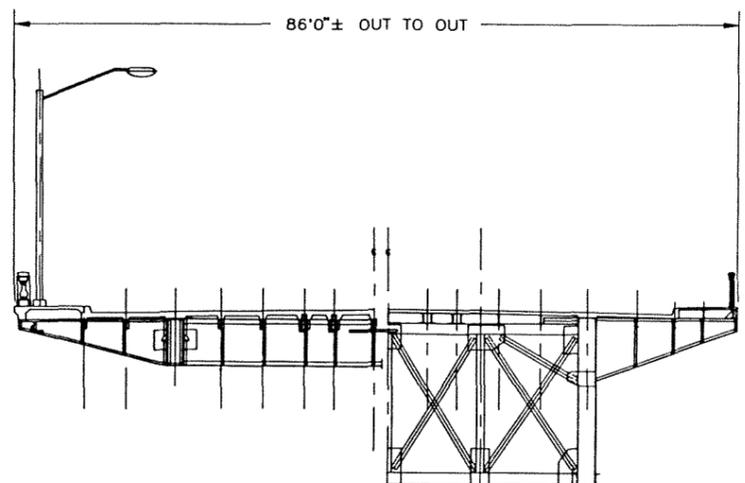
DESIGN SPECIFICATION:
 CURRENT EDITION OF AASHTO STANDARD SPECIFICATION FOR HIGHWAY BRIDGES, INCLUDING INTERIM SPECIFICATIONS.

DESIGN LOADING:
 PEDESTRIAN LOAD = 100 Lb/Sq Ft

MATERIAL:
 STRUCT. CONCRETE CLASS 4000 - 3/4 (SEE SPECIAL PROVISIONS)
 LATEX-MODIFIED CONCRETE (SEE SPECIAL PROVISIONS)
 SPECIAL CONCRETE (SEE SPECIAL PROVISIONS)
 STRUCTURAL STEEL - ASTM A-36
 STANDARD STEEL GRATING (SEE SPECIAL PROVISIONS)
 STEEL FORM DECK (SEE SPECIAL PROVISIONS)
 REINFORCING STEEL - ASTM A615 GRADE 60 EPOXY COATED
 WELDED WIRE FABRIC - ASTM A497
 EPOXY BONDING COAT (SEE SPECIAL PROVISIONS)
 EPOXY INJECTION (SEE SPECIAL PROVISIONS)
 EPOXY MORTAR PATCHING (SEE SPECIAL PROVISIONS)

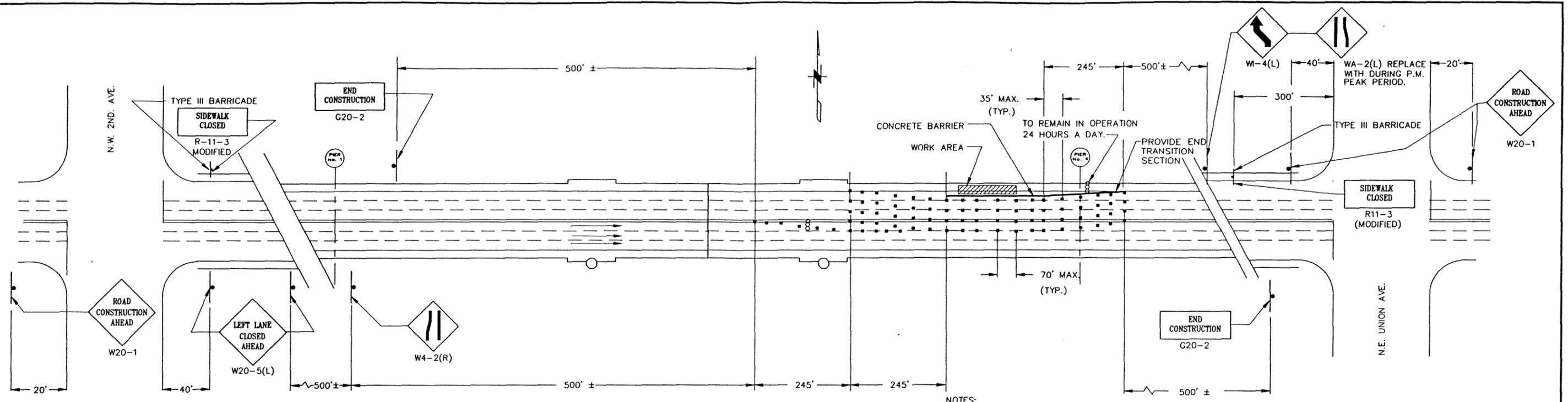
ESTIMATED QUANTITIES					
ITEM	UNIT	LIFT SPAN	FIXED SPAN	PIERS 2 & 3	TOTAL
MOBILIZATION	L. S.				LUMP SUM
METAL HANDRAIL REMOVAL & REINSTALLATION	LIN. FT.	430			430
METAL HANDRAIL REHABILITATION	LIN. FT.	430			430
METAL HANDRAIL EXTRA WORK	F. ACCT.	F. ACCT.			F. ACCT.
SIDEWALK REMOVAL	CU. YD.	33	5		38
REMOVAL OF 1/2" CONCRETE OVERLAY	SQ. YD.		760	265	1025
STRUCT. CONCRETE CLASS 4000 - 3/4	CU. YD.		6		6
LATEX-MODIFIED CONCRETE	CU. YD.	33		8	41
SPECIAL CONCRETE	CU. YD.*		21		21
STRUCTURAL STEEL A-36	Lbs.	2740	3300		6040
STEEL GRATING	SQ. FT.		6830		6830
STEEL FORM DECK	SQ. FT.	3300			3300
REINFORCING STEEL, EPOXY COATED	LBS.		1100		1100
WELDED WIRE FABRIC	LBS.	3250			3250
EPOXY INJECTION EDGE BEAM **	LIN. FT.		76		76
EPOXY INJECTION EXTRA WORK	F. ACCT.		F. ACCT.		F. ACCT.
EPOXY MORTAR PATCHING EDGE BEAM	CU. FT.		60		60
EPOXY MORTAR PATCHING UNDERNEATH SIDEWALK	CU. FT.		58		58
EPOXY MORTAR PATCHING EXTRA WORK	F. ACCT.		F. ACCT.		F. ACCT.
REBAR SPLICING, EDGE BEAM	F. ACCT.		F. ACCT.		F. ACCT.
DECK DRAIN ASSEMBLY	EACH	4			4
FLAGGING	HRS.	100	300	60	460
TEMP. PROT. & DIRECT. MEAS. FOR TRAFFIC ***	L.S.				LUMP SUM

* 785 SQ. YD. ** AS OBSERVED FROM OUTSIDE FACE AND BOTTOM PORTION OF EDGE BEAM. DOES NOT INCLUDE CRACKS ON INSIDE FACE. *** TEMPORARY PROTECTION & DIRECT MEASURE FOR TRAFFIC INCLUDES TEMPORARY CONCRETE BARRIER, TEMPORARY BARRICADES, TEMPORARY SIGNS, ETC.



TYPICAL SECTION A-A
 1"=10'-0"

MULTNOMAH COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION 1620 S.E. 190th Ave. Portland, Ore.	
LARRY F. NICHOLAS - COUNTY ENGINEER	
BURNSIDE BRIDGE SIDEWALK REHABILITATION GENERAL LAYOUT	
Designed DHP/RM Drawn H. HOLT Checked WAJ/ATH Date 5/89 Scale AS SHOWN BR.# 0511	Sht 2 of 7

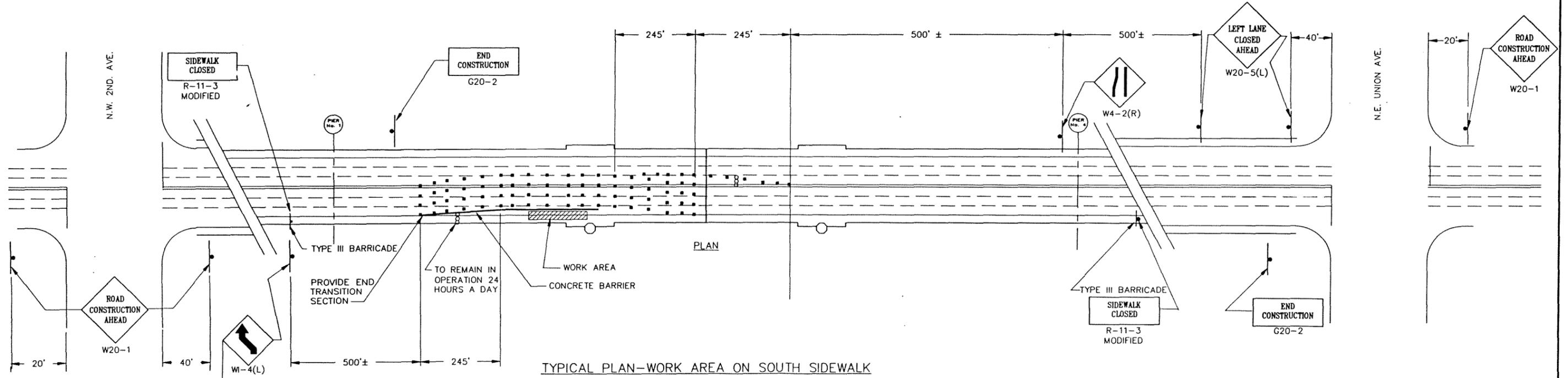


TYPICAL PLAN-WORK AREA ON NORTH SIDEWALK

THE CONTRACTOR TO PROVIDE FENCING TO SECURE AND PROTECT CONSTRUCTION AREA FROM THE GENERAL PUBLIC IN CONFORMANCE TO LOCAL CODES AND REGULATIONS.

NOTES:
APPLICATION SHOWN FOR A.M. PEAK TRAFFIC PERIOD. REMOVE OR COVER SIGNS, REMOVE SEQUENTIAL ARROW SIGN AND CHANNELIZING DEVICES SOUTH OF WEST BOUND LANE FOR P.M. PEAK TRAFFIC PERIOD TO ALLOW 3 LANES OF TRAFFIC EAST BOUND.

LEGEND	
■	CHANNELIZING DEVICES
∞	SEQUENTIAL ARROW SIGN



TYPICAL PLAN-WORK AREA ON SOUTH SIDEWALK

SIGNS ON PORTABLE SIGN SUPPORTS SHALL BE MOUNTED AT A HEIGHT OF ONE FOOT ABOVE THE ROADWAY EDGE OF PAVEMENT ELEVATION. THE SIGNS SHALL HAVE ORANGE OR FLUORESCENT RED-ORANGE 16-INCH SQUARE OR LARGER FLAGS MOUNTED ABOVE THE SIGN FACE IN SUCH A MANNER AS TO NOT OBSTRUCT THE VIEWING OF SIGN MESSAGES. THE FLAGS SHALL BE MADE FROM EITHER A TIGHTLY WOVEN FABRIC OR PLASTIC SHEETING ACCEPTABLE TO THE ENGINEER. ALL SIGNS SHALL CONFORM TO MUTCD GUIDELINES.

NOTES:
APPLICATION SHOWN FOR P.M. PEAK TRAFFIC PERIOD. REMOVE OR COVER SIGNS, REMOVE SEQUENTIAL ARROW SIGN AND CHANNELIZING DEVICES NORTH OF EAST BOUND LANES FOR A.M. PEAK TRAFFIC PERIOD TO ALLOW FOR 3 LANES OF TRAFFIC WEST BOUND.

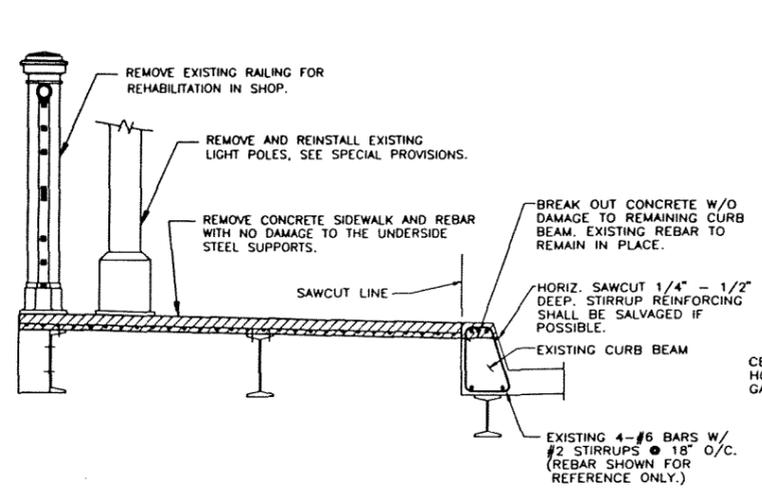
Rev No.	Date	Revision

MULTNOMAH COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES
TRANSPORTATION DIVISION
1620 S.E. 190th Ave. Portland, Ore.

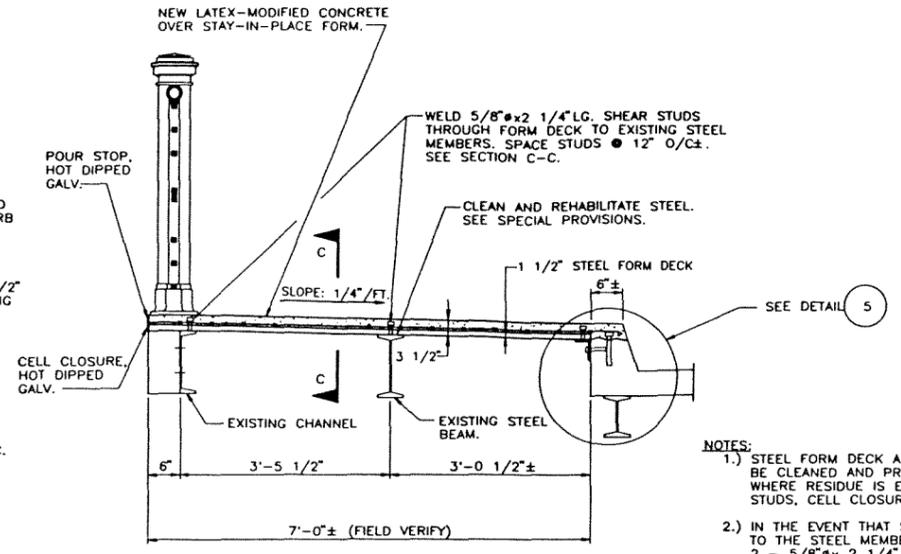
LARRY F. NICHOLAS - COUNTY ENGINEER

**BURNSIDE BRIDGE
SIDEWALK REHABILITATION
CONSTRUCTION TRAFFIC SIGNING**

Designed DHP/RM Drawn H. HOLT Checked WAJ Sht 3 of 7
Date 5/89 Scale NOT TO SCALE BR.# 0511

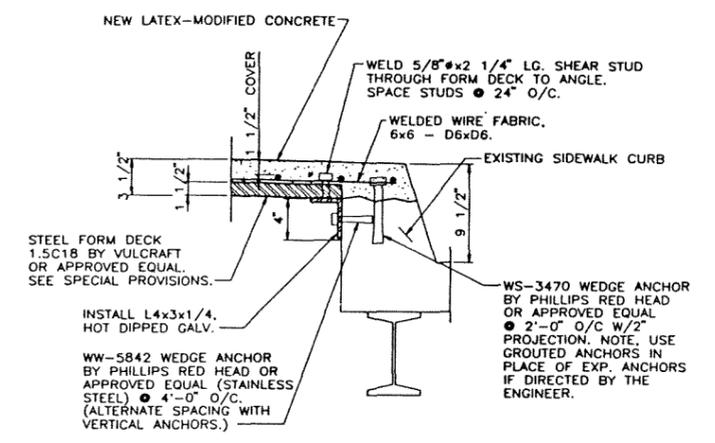


LIFT SPAN SIDEWALK REMOVAL

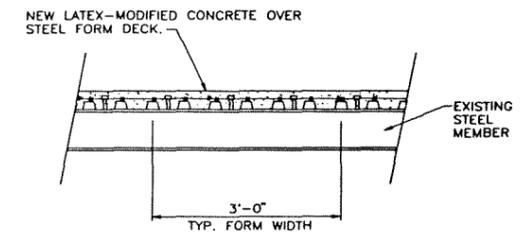


LIFT SPAN SIDEWALK REPLACEMENT

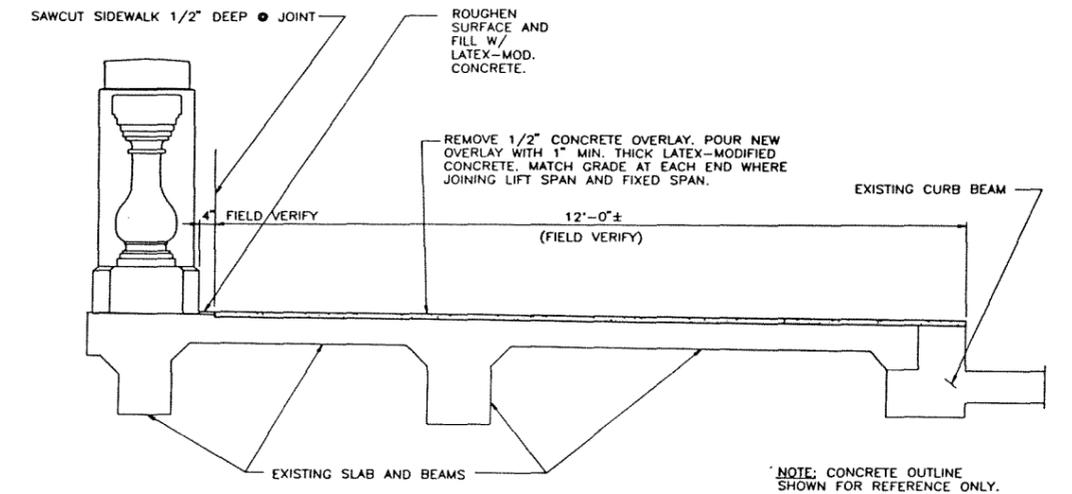
- NOTES:
- 1.) STEEL FORM DECK AND EXISTING STEEL MEMBERS SHALL BE CLEANED AND PRIMED W/ EPOXY PAINT IN AREAS WHERE RESIDUE IS EVIDENT FROM THE WELDING OF SHEAR STUDS, CELL CLOSURES, ETC.
 - 2.) IN THE EVENT THAT SHEAR STUDS ARE NOT WELDABLE TO THE STEEL MEMBERS, REPLACE EXISTING RIVETS W/ 2 - 5/8" x 2 1/4" LG. STUDDED BOLTS @ 2'-0" O/C.



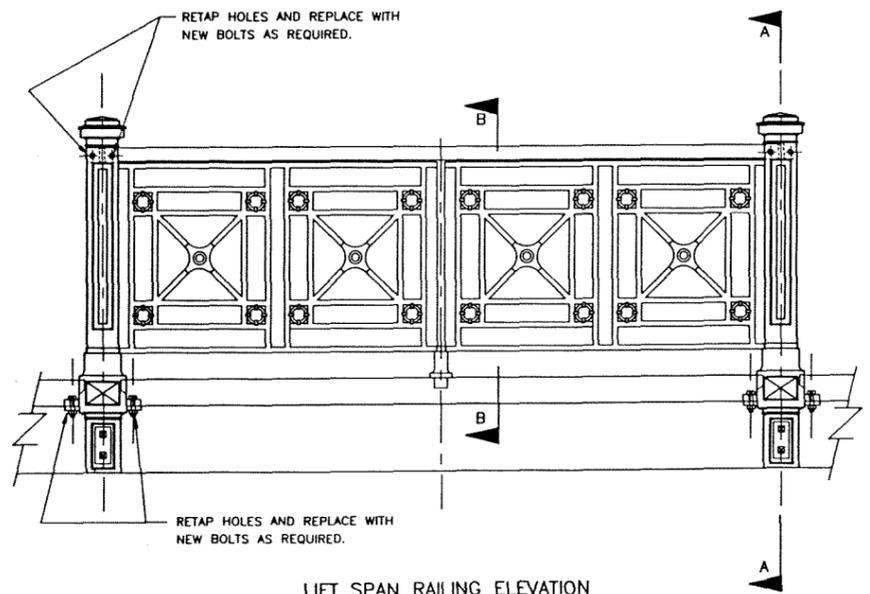
DETAIL 5
1 1/2" = 1'-0"



SECTION C - C

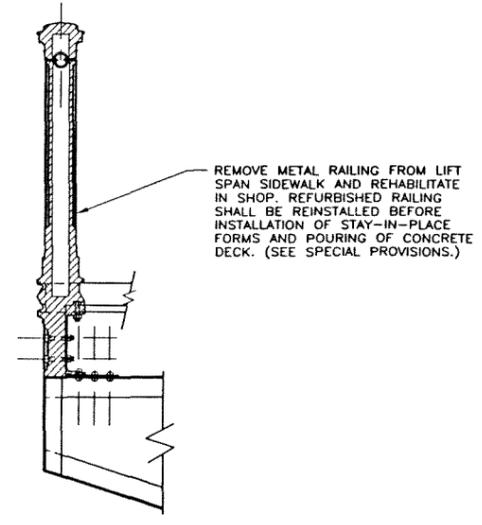


PIER SIDEWALK OVERLAY

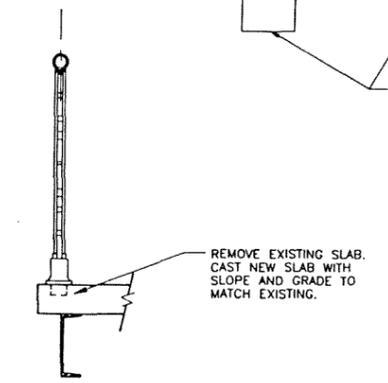


LIFT SPAN RAILING ELEVATION

NOTE:
RAILING MAY REQUIRE BRACING UNTIL SIDEWALK IS CONSTRUCTED.
IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THE INTEGRITY OF THE RAILING AND MAINTAIN THE SAME LINE AND GRADE AS IN ITS PRESENT FORM.
COST SHALL BE INCIDENTAL TO THE UNIT PRICE BID PER LINEAR FEET OF "METAL HANDRAIL REHABILITATION".



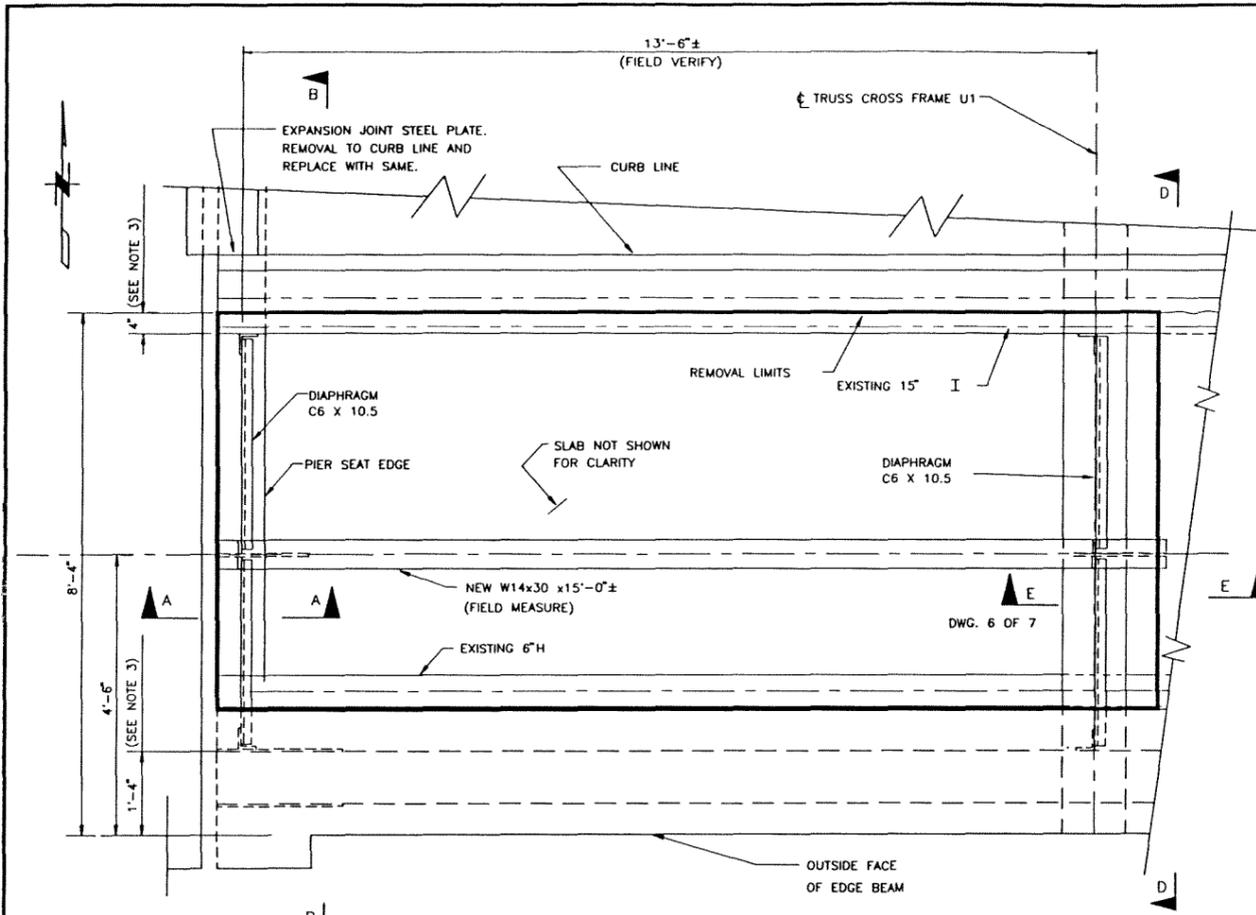
SECTION A - A



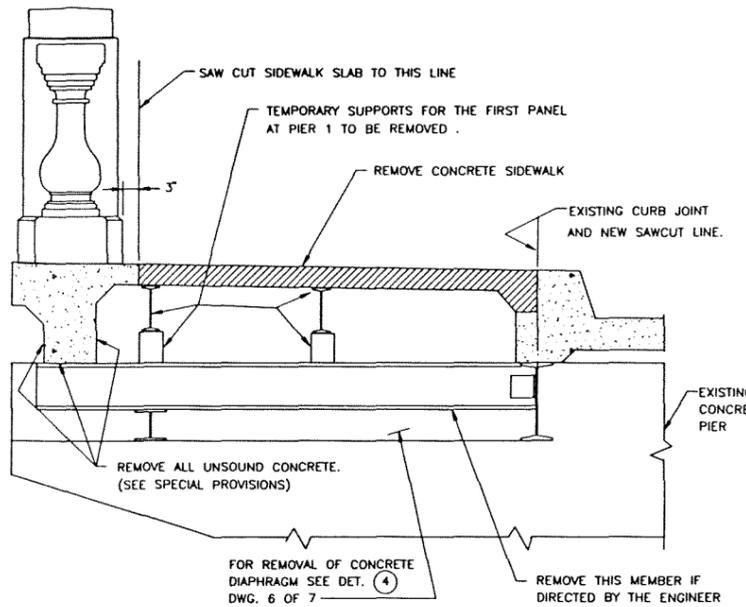
SECTION B - B

FOR GENERAL NOTES SEE SHEET #2.

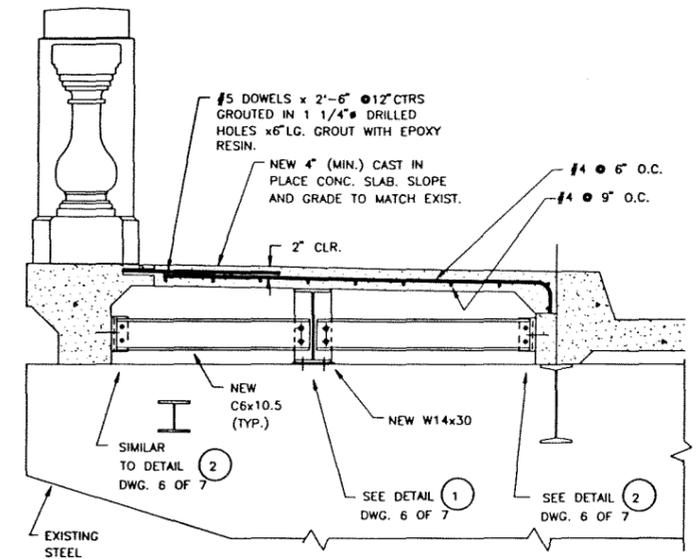
<p>Rev No. Date Revision</p>			<p>MULTNOMAH COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION 1620 S.E. 190th Ave. Portland, Ore. LARRY F. NICHOLAS - COUNTY ENGINEER</p>
<p>Designed DHP/RM Drawn HOLT Checked WAJ/ATL Sht 4 of 7</p>			
<p>Date 5/89 Scale 3/4" = 1'-0" BR.# 0511</p>		<p>BURNSIDE BRIDGE SIDEWALK REHABILITATION LIFT SPAN SIDEWALK REPLACEMENT</p>	



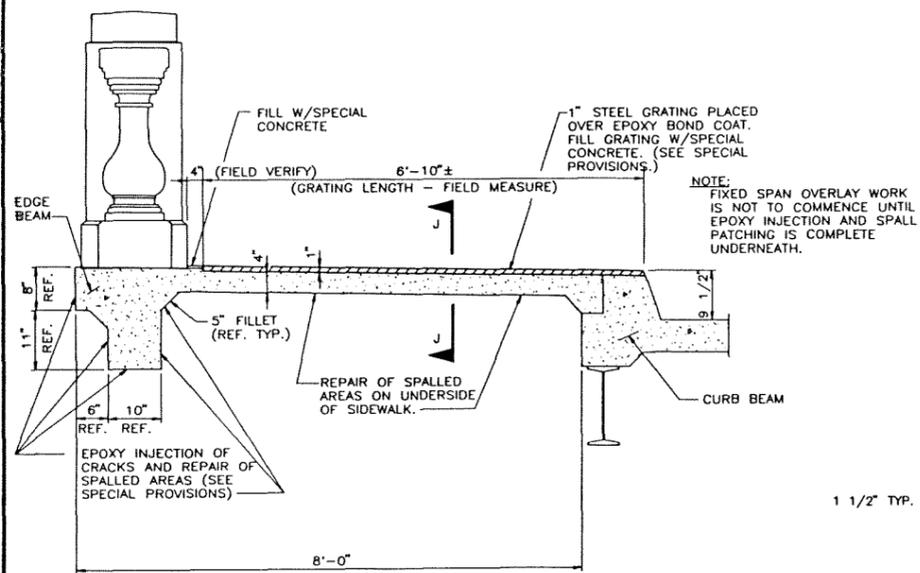
PARTIAL PLAN FIRST PANEL ADJACENT TO S.E. SIDE PIER No. 1
SIMILAR AT N.E. SIDE PIER No. 1 & N.W. & S.W. SIDES OF PIER No. 4



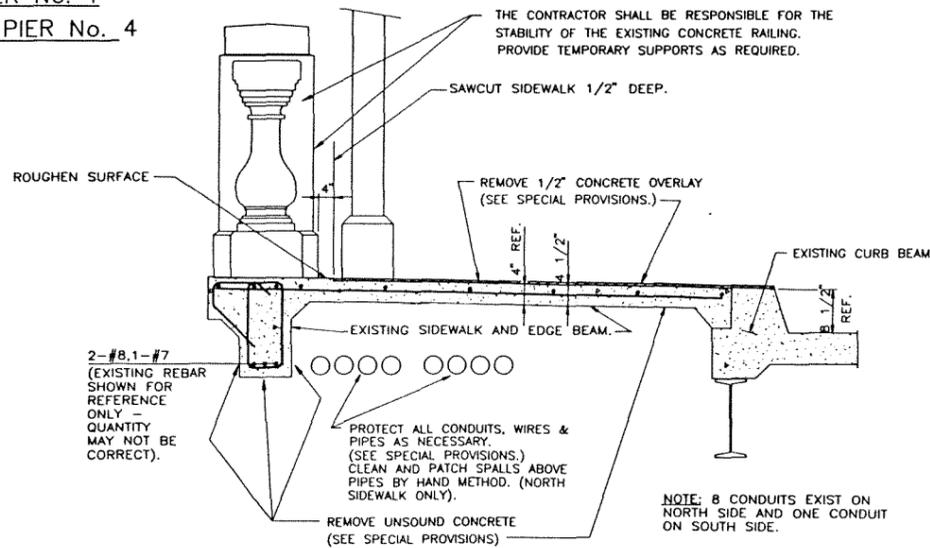
SECTION B - B
REMOVAL DETAILS
ONE PANEL ADJACENT TO PIERS 1 & 4
(4 PLACES AS NOTED)



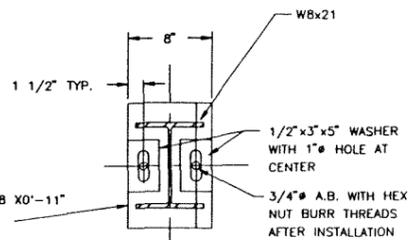
SECTION D - D
REHABILITATION ONE PANEL ADJACENT TO PIER 1 & PIER 4
(4 PLACES)



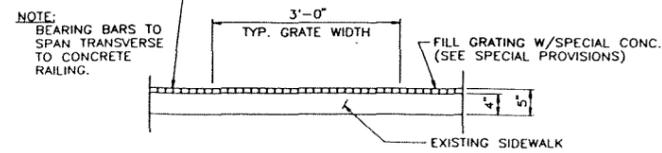
FIXED SPANS DECK REHABILITATION



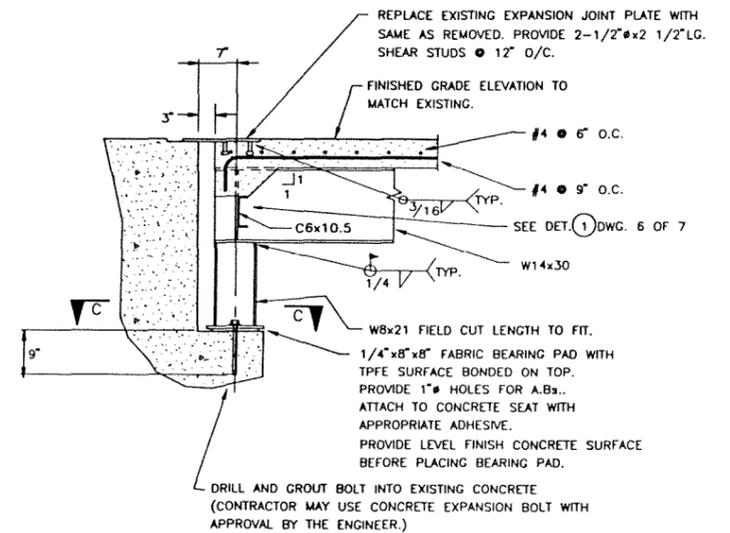
FIXED SPANS OVERLAY REMOVAL



SECTION C - C
1 1/2" = 1'-0"



SECTION J - J



SECTION A - A

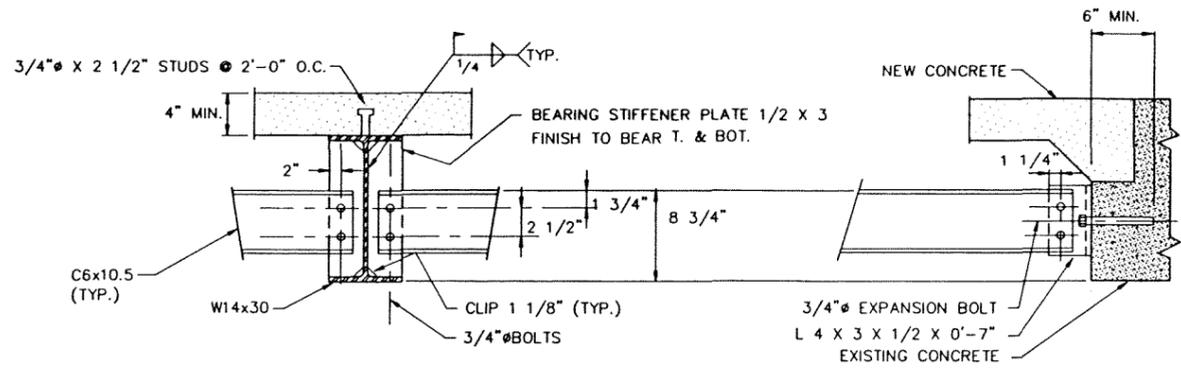
- NOTES:**
- 1.) FOR GENERAL NOTES SEE SHEET #2.
 - 2.) FILL GROUT HOLE PARTIALLY WITH GROUT BEFORE PLACING DOWELS SO NO AIR POCKETS DEVELOP.
 - 3.) FIELD VERIFY ALL DIMENSIONS OF EXISTING STRUCTURE.

Rev. No.	Date	Revision

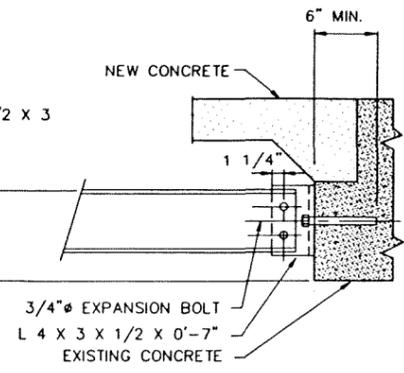
MULTNOMAH COUNTY
DEPARTMENT OF ENVIRONMENTAL SERVICES
TRANSPORTATION DIVISION
1620 S.E. 190th Ave. Portland, Ore.
LARRY F. NICHOLAS - COUNTY ENGINEER

BURNSIDE BRIDGE
SIDEWALK REHABILITATION
SECTIONS AND DETAILS

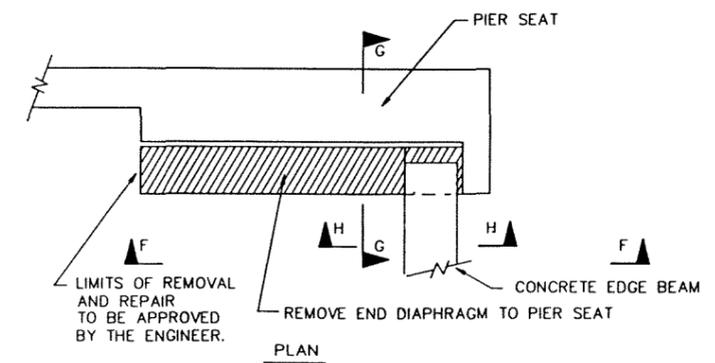
Designed DHP/RM Drawn H HOLT Checked WJL/ATH Sht 5 of 7
Date 5/89 Scale 3/4" = 1'-0" U/N BR. # 0511



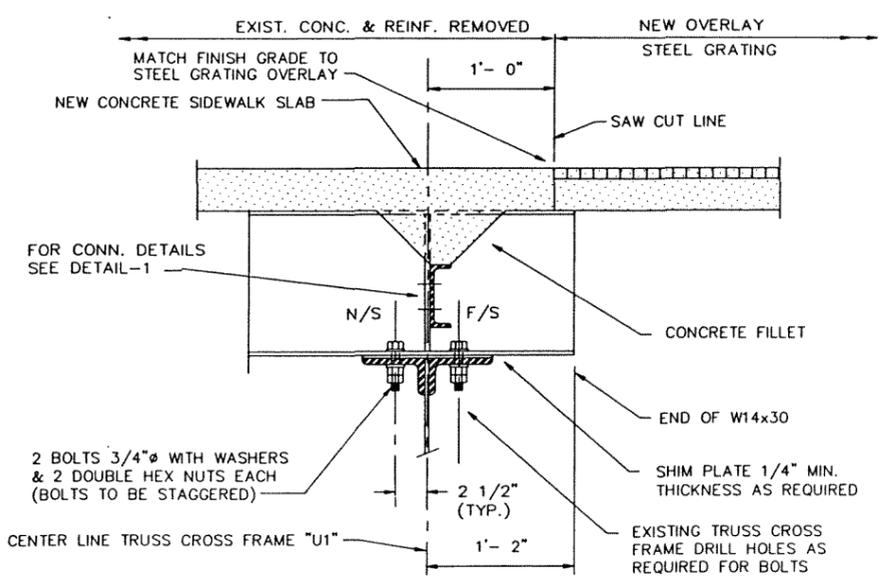
DETAIL 1 (DWG. 5 OF 7)
1 1/2" = 1'-0"



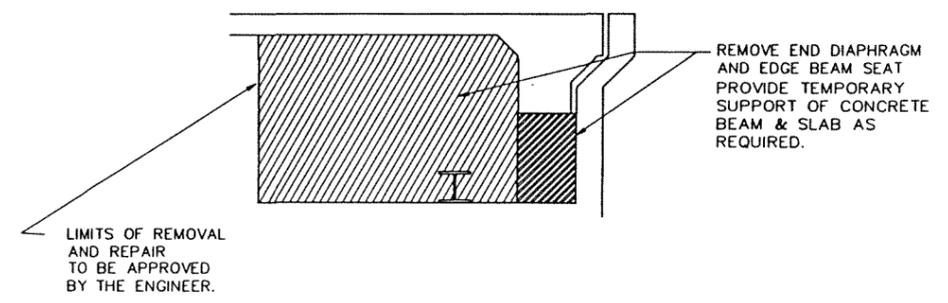
DETAIL 2 (DWG. 5 OF 7)
1 1/2" = 1'-0"
(SAME DETAIL REQUIRED AT
EDGE BEAM EXCEPT AS SHOWN
IN SECTIONS G-G & H-H)



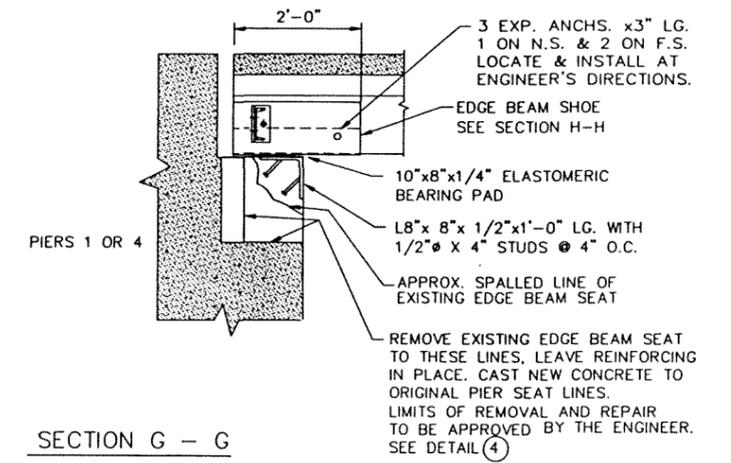
DETAIL 4 (DWG. 5 OF 7)
SCHEMATIC END DIAPHRAGM PLAN
(4 PLACES)



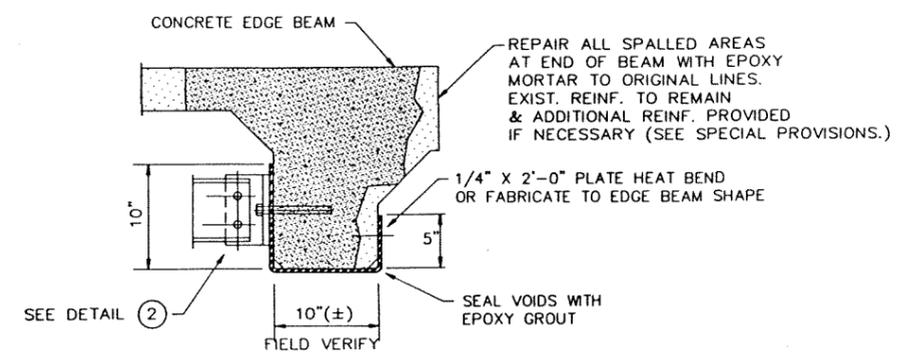
SECTION E - E (DWG. 5 OF 7)
1 1/2" = 1'-0"



ELEVATION F - F



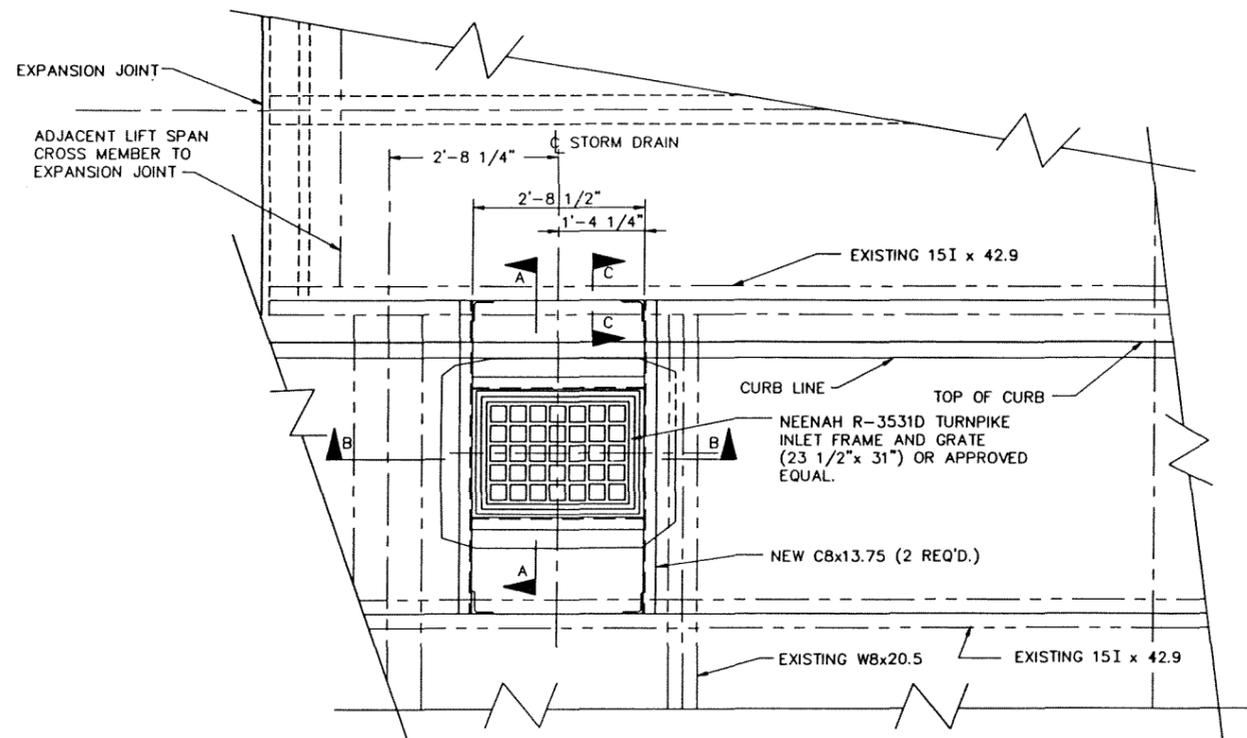
SECTION G - G



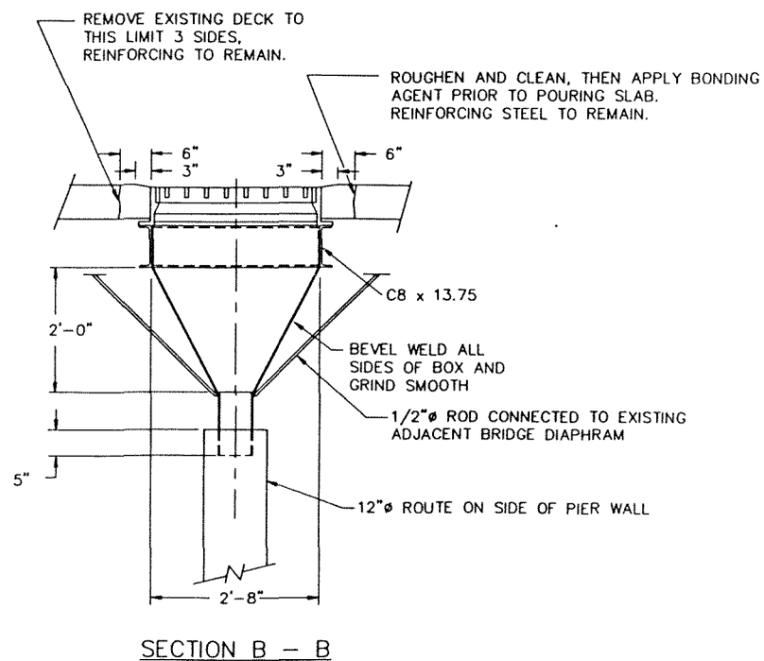
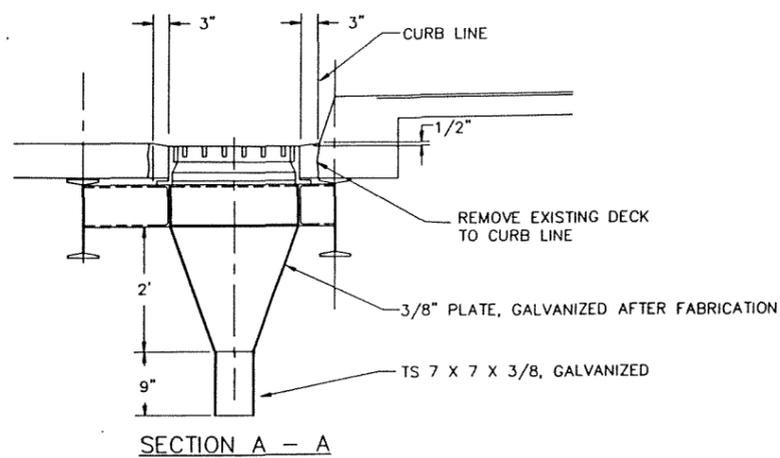
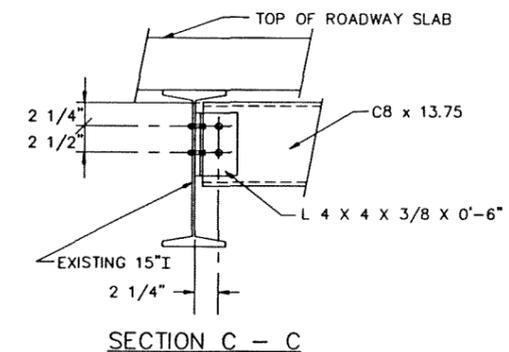
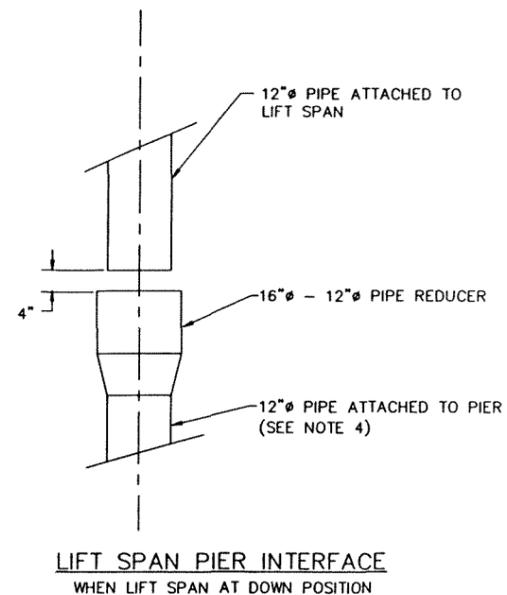
SECTION H - H
EDGE BEAM SHOE
1 1/2" = 1'-0"

NOTES:
1) SEE NOTES ON SHEETS 2 & 5

MULTNOMAH COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION 1620 S.E. 190th Ave. Portland, Ore.	
LARRY F. NICHOLAS - COUNTY ENGINEER	
BURNSIDE BRIDGE SIDEWALK REHABILITATION SIDEWALK DECK, EDGE BEAM DETAILS	
Designed BHP/RM Date 5/89	Drawn H. HOL Scale 3/4" = 1'-0" U/N BR. # 0511
Checked WAZ SRT 6	of 7



PLAN - DECK DRAIN ASSEMBLY
(4 REQ'D.)



NOTES:

1. SAW CUT EXISTING DECK TO INLET SIZE.
2. CHIP-OFF ADDITIONAL 6" 3 SIDES AND TO CURB LINE, LEAVE REINFORCING STEEL INPLACE.
3. FRAME AND INSTALL DRAIN PIPE ASSEMBLY.
4. FIELD ROUTE 12" DIA. DRAIN PIPE FROM NEW CATCH BASIN TO JUST ABOVE EXISTING SILL. ATTACH SECURELY TO INSIDE OF PIER WALL WITH APPROPRIATE BRACKETS & ANCHORS. ROUTING AND CONNECTIONS SUBJECT TO ENGINEERS APPROVAL. (REQUIRES APPROX. 30 LIN. FT. OF PIPE.)

Rev. No.		Date	Revision
MULTNOMAH COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES TRANSPORTATION DIVISION 1620 S.E. 190th Ave. Portland, Ore. LARRY F. NICHOLAS - COUNTY ENGINEER			
BURNSIDE BRIDGE SIDEWALK REHABILITATION DECK DRAIN ASSEMBLY			
Designed DHP/waj		Drawn H. HOLT	Checked R. MOY
Date 5/89		Scale 3/4"=1'-0"	BR.# 0511
		Sht 7	of 7

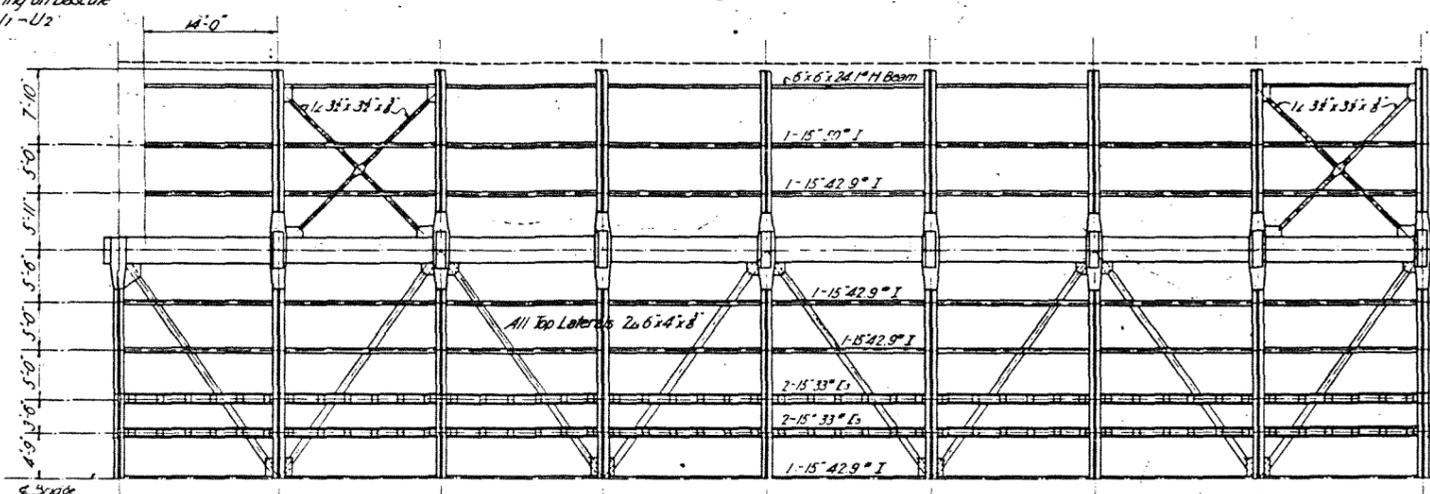
DEAD LOAD
Actual weight of materials --
For Trusses 15,000 per lin. ft. of span
LIVE LOADS

Floor system --
Sidewalks: 80 per square foot of walk
Roadway: 20 ton trucks
Street Railway: Solid line of cars as shown below on both tracks

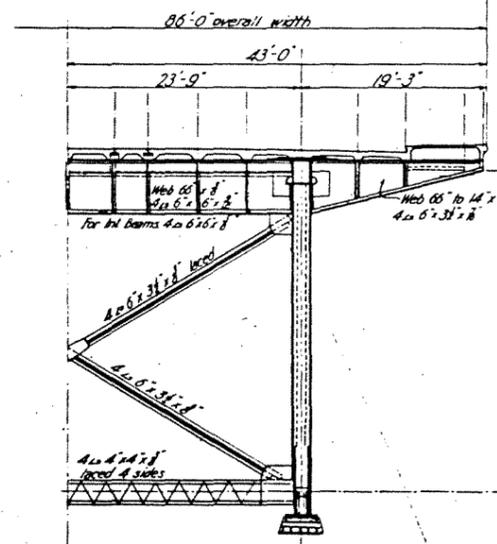
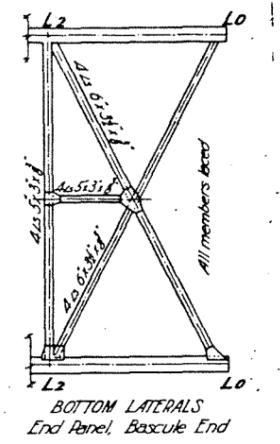


Trusses: 1900 per lin. ft. per track or 3800 per lin. ft. of span
80 per sq. foot of roadway outside of space occupied by street cars
50 per sq. foot on sidewalks
Total 6320 per lin. foot of span

Cantilever Bracing on Bascule
end in panel U1-U2

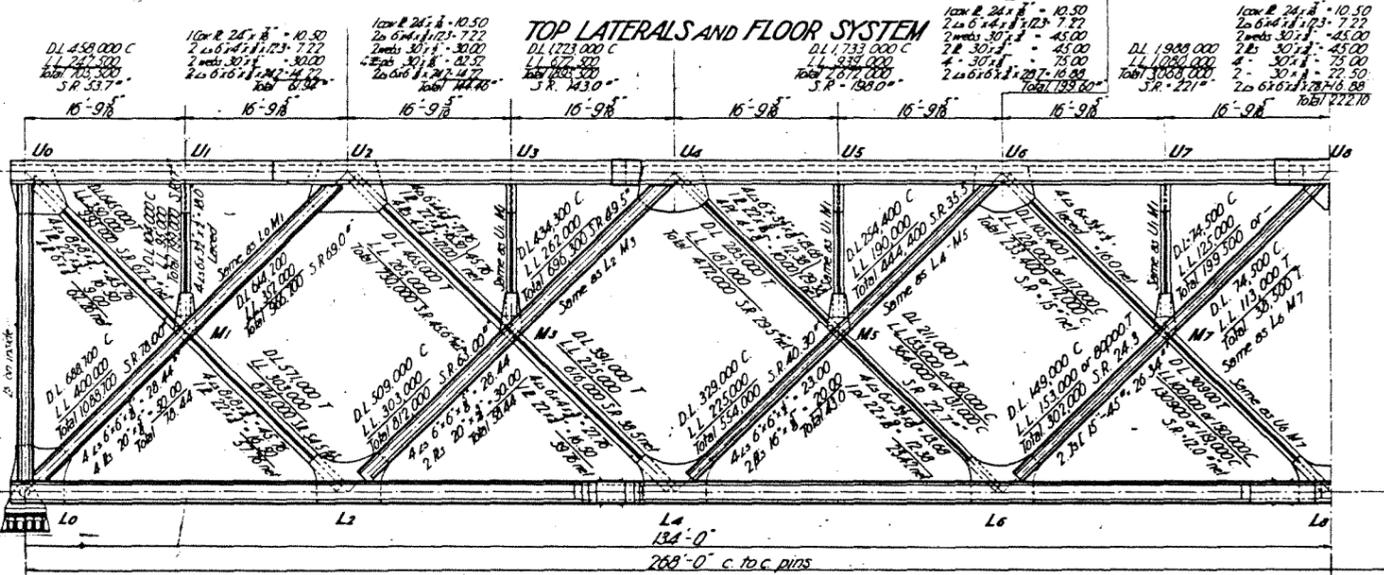


Fascia Girder
Curb Stringer
Outside Roadway Stringer
Top Chord
Roadway Stringer
Track Stringer
Track Stringer
Center Curb Stringer



SWAY BRACING, SHORE END

For End Post of Bascule
see sheets nos. 34 & 35
DL 641,980
LL 472,000
Total 1,114,000



TOP LATERALS AND FLOOR SYSTEM

DL 458,000 C
LL 247,300
Total 705,300
S.R. 337"

10x8 24' x 8' = 10.50
2x 6x6x3/4x23' = 7.77
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x27' = 27.00
Total 105.27

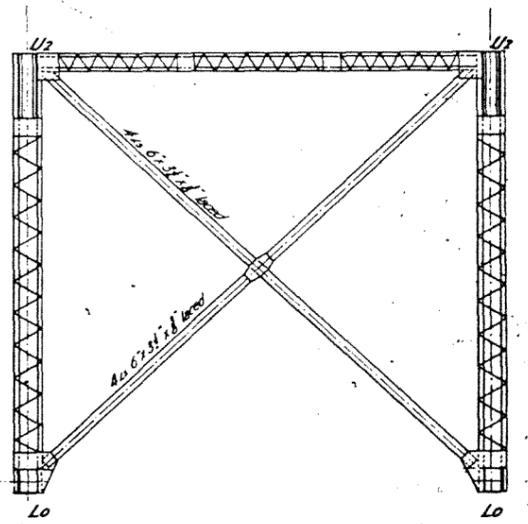
10x8 24' x 8' = 10.50
2x 6x6x3/4x23' = 7.77
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x27' = 27.00
Total 105.27

DL 1733,000 C
LL 833,300
Total 2,566,300
S.R. 198.0"

10x8 24' x 8' = 10.50
2x 6x6x3/4x23' = 7.77
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x27' = 27.00
Total 105.27

DL 1988,000 C
LL 1,080,000
Total 3,068,000
S.R. 221"

10x8 24' x 8' = 10.50
2x 6x6x3/4x23' = 7.77
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x30' = 30.00
2x 6x6x3/4x27' = 27.00
Total 105.27



SWAY BRACING, BASCULE END
IN PLANE U2-L0

ELEVATION

DL 488,000 T
LL 284,000
Total 772,000 S.R. 40.2"

4x6x3/4x19.6 = 23.0
2x 30x8 = 33.75
Total 56.75 gr. 50.57 net

DL 1254,000 T
LL 709,000
Total 1,963,000 S.R. 122.8"

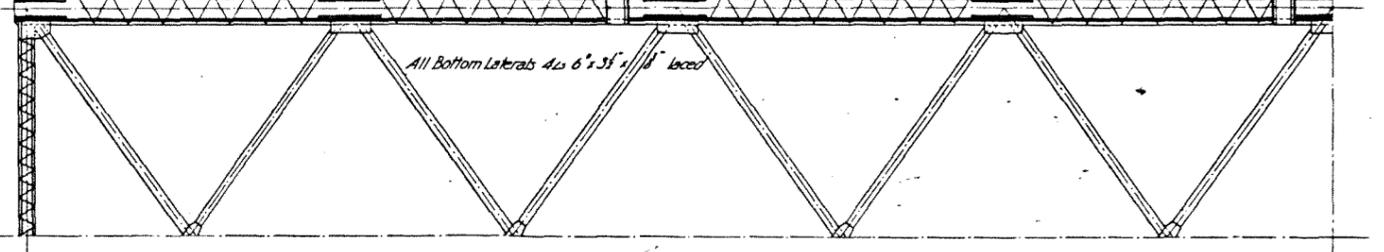
4x6x3/4x19.6 = 23.0
2x 30x8 = 33.75
2x 30x8 = 33.75
2x 30x8 = 33.00
Total 133.50 gr. 124.00 net

DL 1,764,000 T
LL 975,000
Total 2,739,000 S.R. 171.5"

4x6x3/4x19.6 = 23.0
8x 30x8 = 165.0
Total 188.0 gr. 173.0 net

DL 2070,000 T
LL 1,116,000
Total 3,186,000 S.R. 196.4"

4x6x3/4x19.6 = 23.0
8x 30x8 = 165.0
2x 30x8 = 30.0
Total 218.0 gr. 199.74 net



BOTTOM LATERALS

THIS PAGE FOR INFORMATION ONLY

General Notes
All metal medium steel unless otherwise noted
Anchor bolts of soft steel and fixed ends
Rivets soft steel and 8 diam except when noted
Rivet holes punched 1/8 smaller and reamed to 1/8 greater diam than the rivet, except in I beam stringers and stringer bracing, where holes may be punched full size
Ends of floor beams and cantilevers to be faced, and reamed to cast iron template
All abutting ends of compression members to be faced to even bearing
Sheared edges of all plates except stay plates, lateral plates and lacing bars, to be faced
Corners of outstanding legs of lacing bars are to be sheared off

For Truss details see American Bridge Co. shop plans, Order #595.

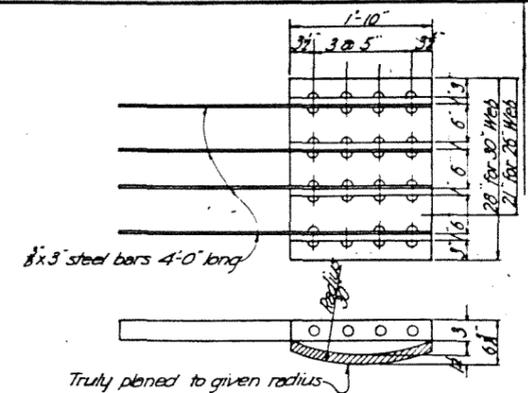
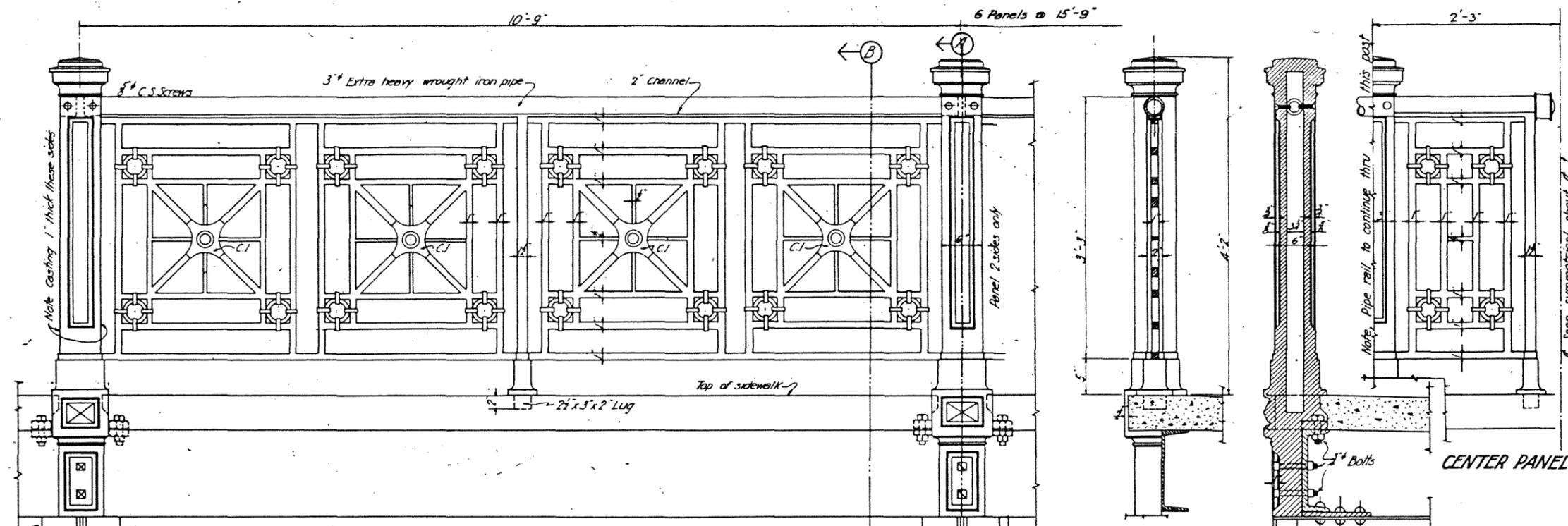
MULTNOMAH COUNTY - OREGON

BURNSIDE BRIDGE
PORTLAND, OREGON

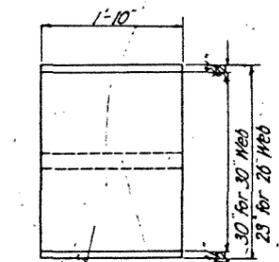
STRESS DIAGRAM & GENERAL DIMENSIONS
268' DECK TRUSS

MADE BY *R. H. ...* HEDRICK & KREMERS
CHECKED BY *R. H. ...* CONSULTING ENGINEERS
TRACED BY *R. H. ...* PORTLAND, OREGON
CHECKED BY *R. H. ...* DATE JUL 5 1924
DRAWING NO. SHEET NO. **J30**

SHEETS SCALE 1" = 1'-0"

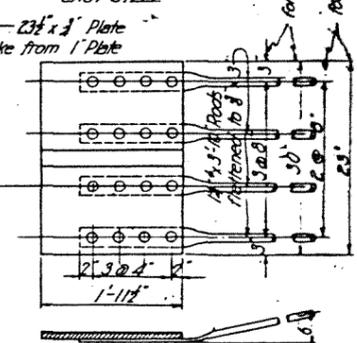


TOP PLATE CAST STEEL



SLIDING SHOE CAST STEEL

THIS PAGE FOR INFORMATION ONLY



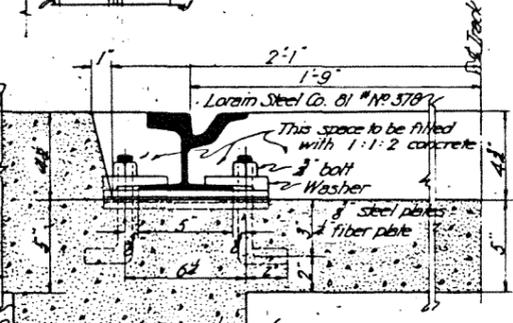
BEARING PLATE STEEL

DETAILS OF EXPANSION & ROCKER BEARINGS Scale 1"-1'-0"

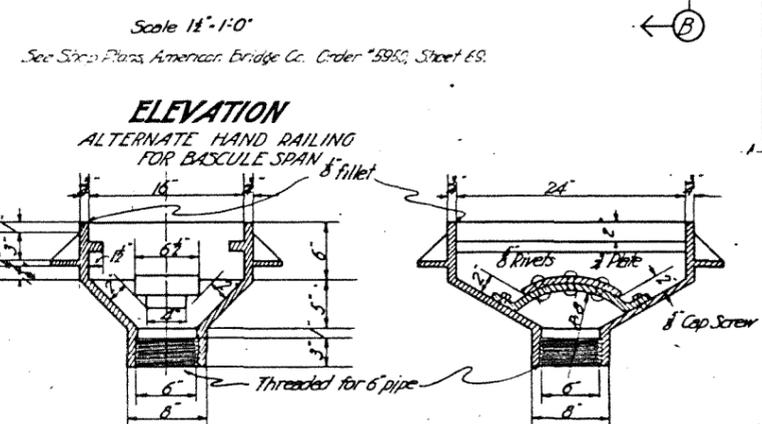
MULTNOMAH COUNTY, OREGON BURNSIDE BRIDGE PORTLAND, OREGON

MISCELLANEOUS DETAILS

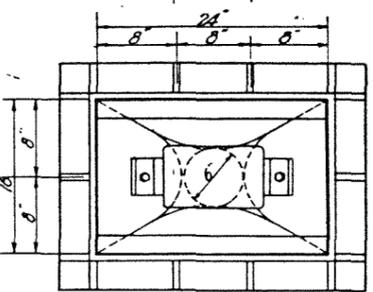
MADE BY DREW HEDRICK & KREMERS CONSULTING ENGINEERS PORTLAND, OREGON DATE FEB. 21, 1921 DRAWING NO. SHEETS Scale as noted SHEET NO. 57



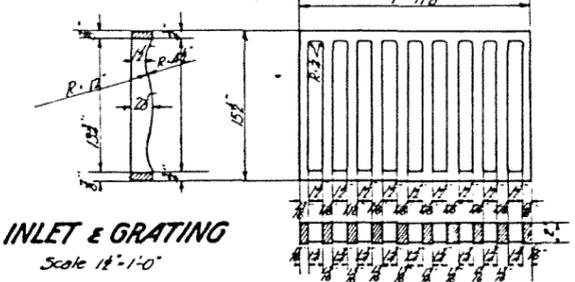
TYPICAL RAIL FASTENING Scale 5"-1'-0"



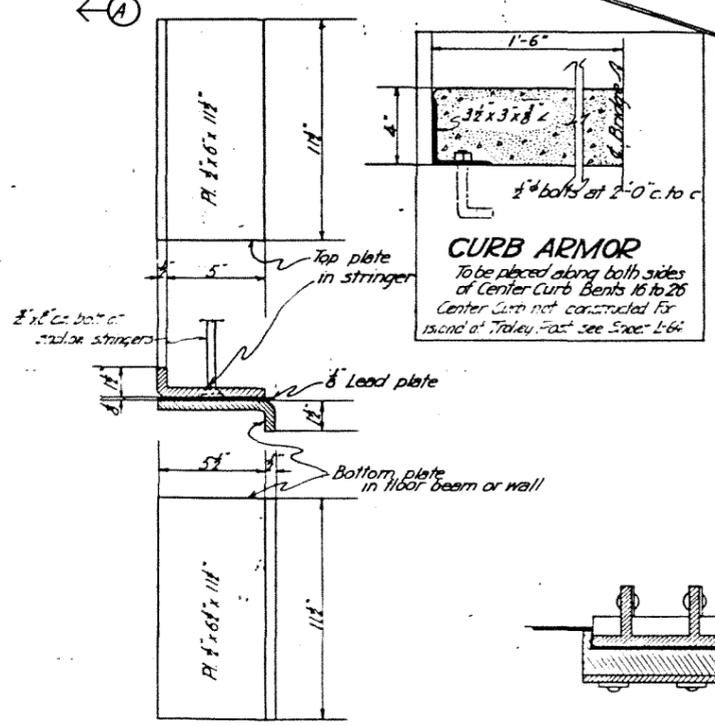
Grating and frame machined to true bearing. This inlet & grating to be used only where connection is made to city sewers. For others use cast iron inlet.



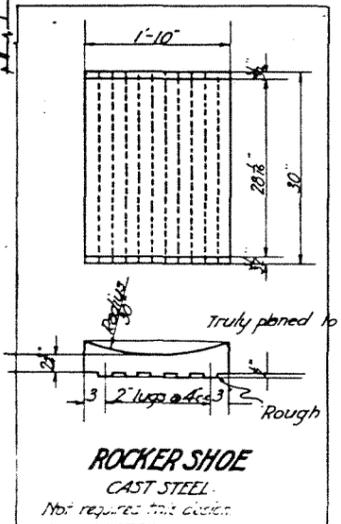
INLET



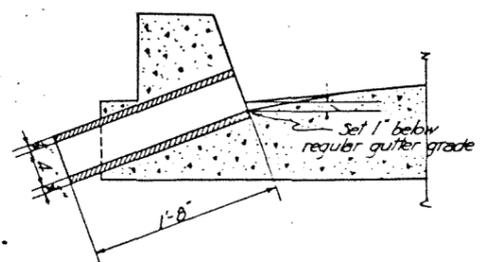
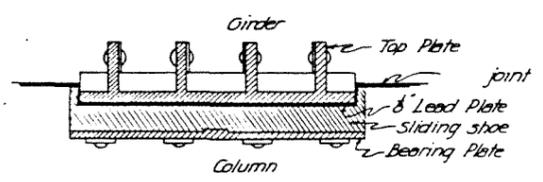
INLET & GRATING Scale 1 1/2"-1'-0"



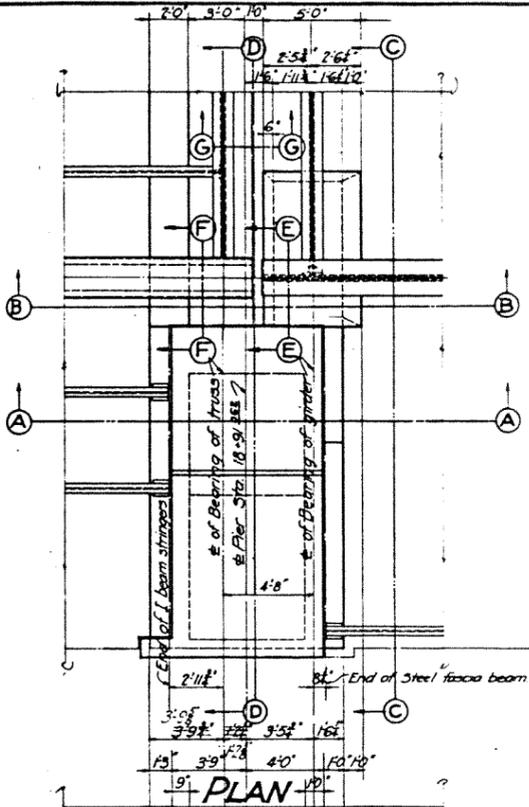
TYPICAL DETAIL BEARING PLATES For use under stringers at expansion joints Scale 5"-1'-0"



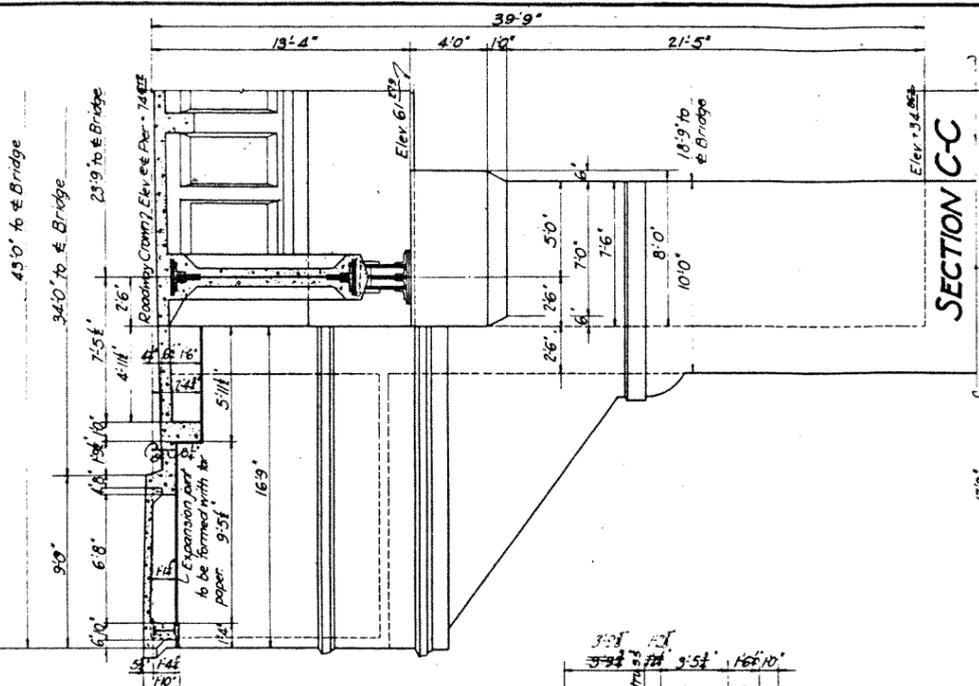
ARRANGEMENT Scale 1 1/2"-1'-0"



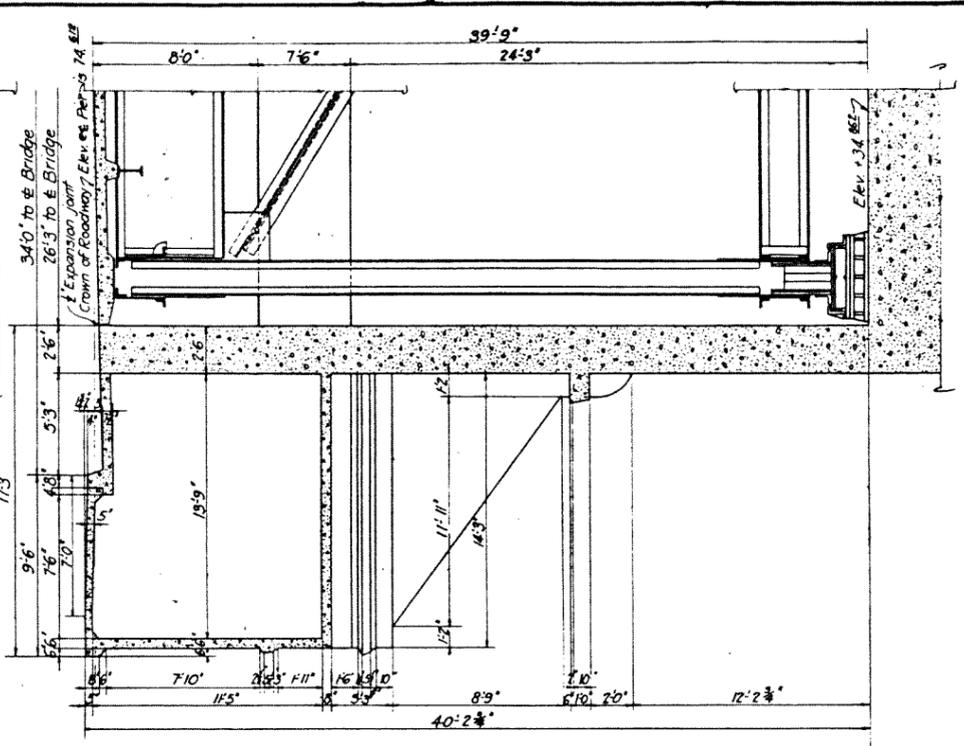
CAST IRON INLET



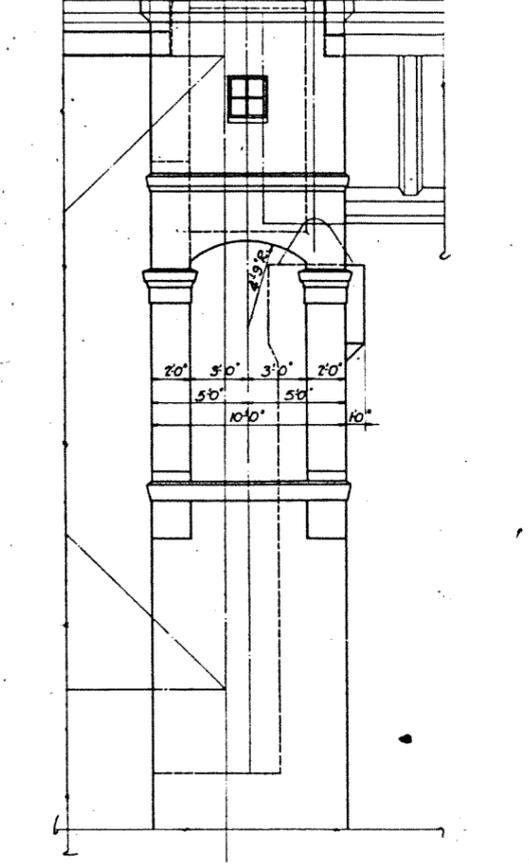
PLAN



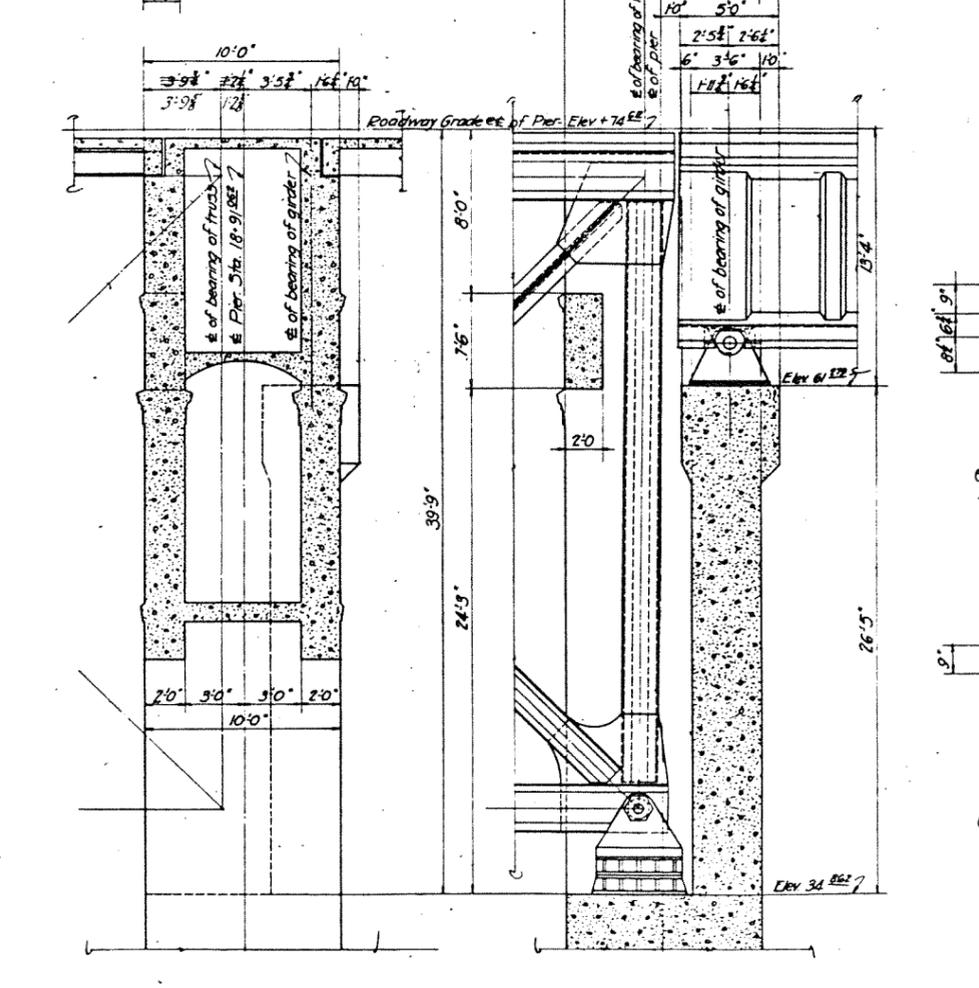
SECTION C-C



SECTION D-D

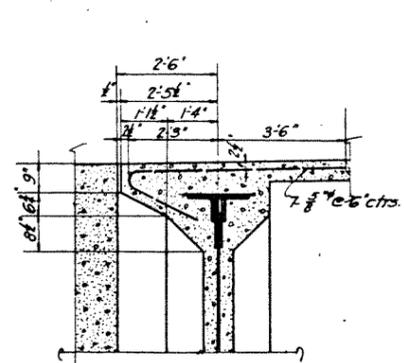


ELEVATION

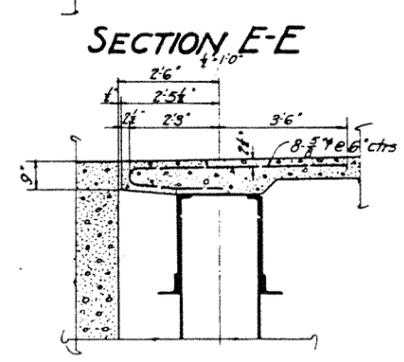


SECTION A-A

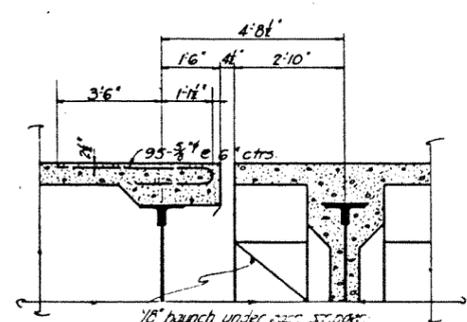
SECTION B-B



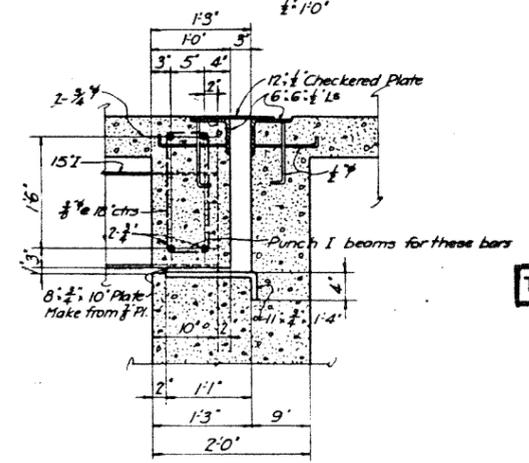
SECTION E-E



SECTION F-F



SECTION G-G



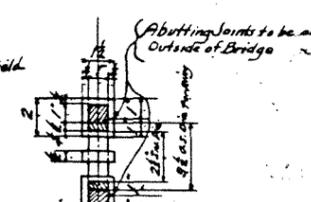
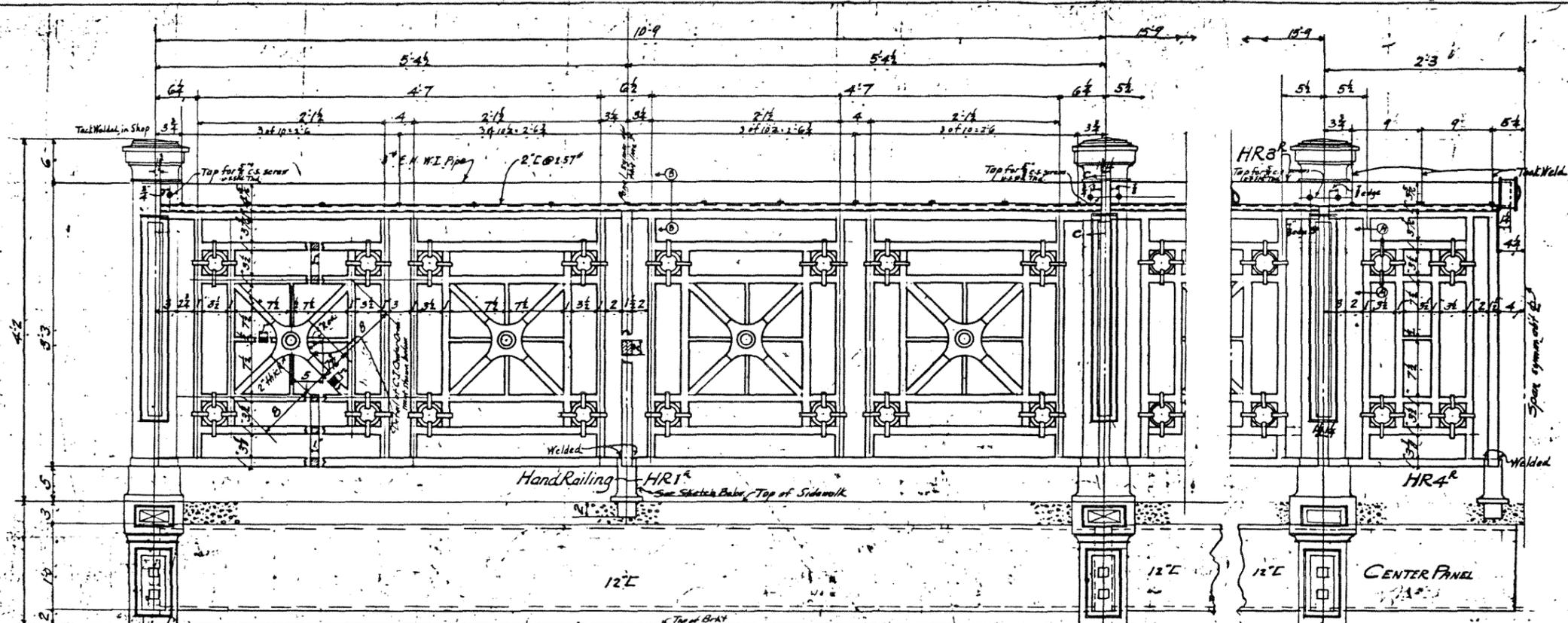
SECTION SHOWING TRUSS STRINGERS AT PIER 4

For reinforcing of Pier 4 see sheet L-17
 For details of bearing plate of steel fascia beam on Pier 4 see sheet L-63.
 For details of cantilever ends of concrete stringers span 20 see sheet L-63
 For details of roadway expansion plate see sheet 53.

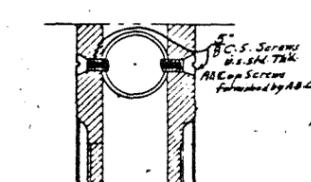
THIS PAGE FOR INFORMATION ONLY

MULTNOMAH COUNTY - OREGON
BURNSIDE BRIDGE
 PORTLAND, OREGON
GENERAL DETAILS
PIER 4 PYLON

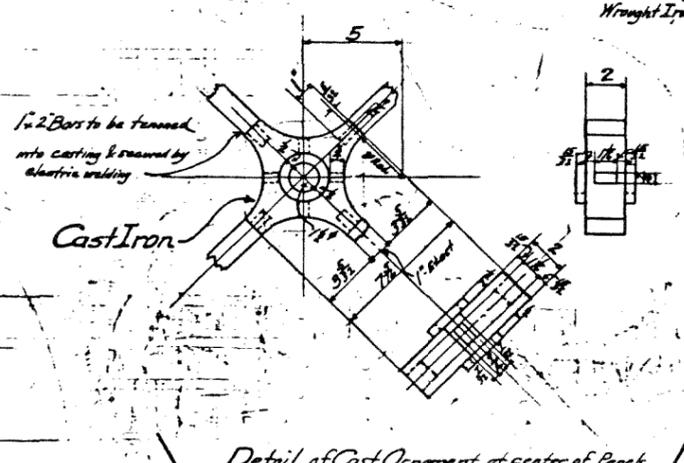
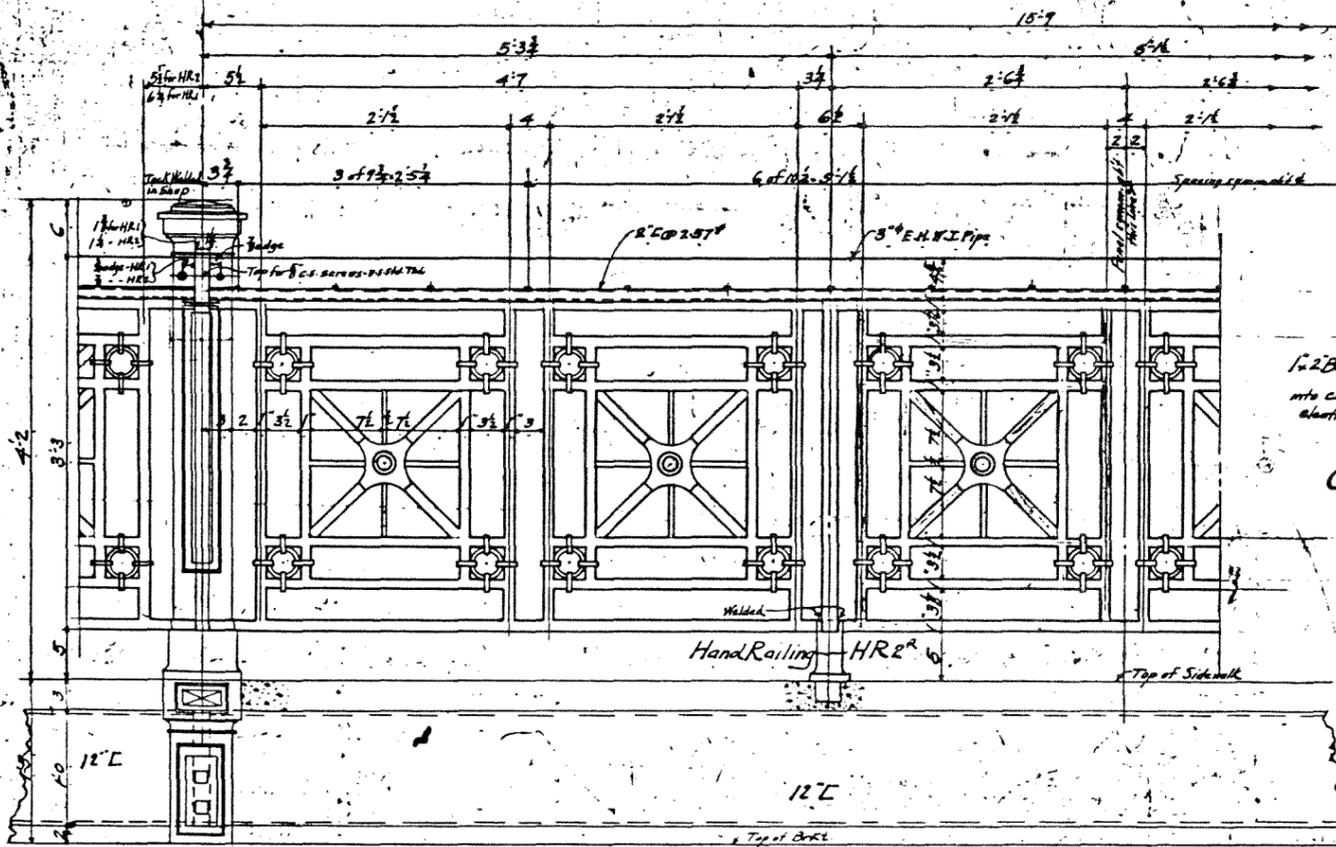
MADE BY *[Signature]* GUSTAV LINDENTHALS
 CHECKED BY *[Signature]* CONSULTING ENGINEERS
 TRACED BY *[Signature]* PORTLAND, OREGON
 CHECKED BY *[Signature]* DATE OCT. 27, 1924
 DRAWING NO. D.L. 131 B SHEET NO. 164
 4 SHEETS SCALE 1/2" = 1'-0" EXCEPT AS NOTED



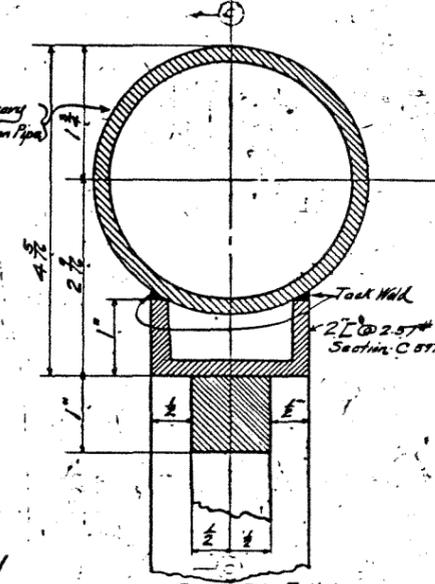
Section AA-3 Scale



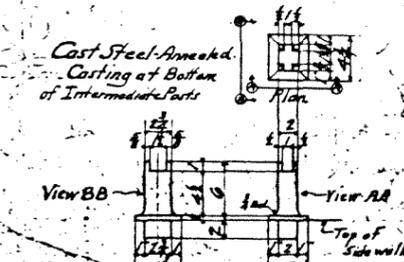
Section CC-5 Scale



Detail of Cast Ornament at center of Panels



Section BB-Full size



Cast Steel Annealed Casting at Bottom of Intermediate Parts

LINE	NO.	MATERIAL	SHAPE	LENGTH	WEIGHT	REMARKS	QUANTITY	UNIT	WEIGHT
1									
2		4 Hand Railings - HR1							
3		4 3" E.H. Pipe 10.64							
4		4 1/2" 2x2 1/2 10.64							
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15		20 Hand Railings - HR2							
16		20 3" E.H. Pipe 15.64							
17		20 1/2" 2x2 1/2 15.64							
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30		4 Hand Railings - (2 - HR3 & 2 - HR4)							
31		4 3" E.H. Pipe 17.8							
32		4 1/2" 2x2 1/2 15.64							
33		4 Caps End of Railings at Center of Bridge							
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45		4 Hand Railings - (2 - HR3 & 2 - HR4)							
46		4 3" E.H. Pipe 17.8							
47		4 1/2" 2x2 1/2 15.64							
48		4 Caps End of Railings at Center of Bridge							
49									
50									
51									
52									
53									
54									
55									
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67									

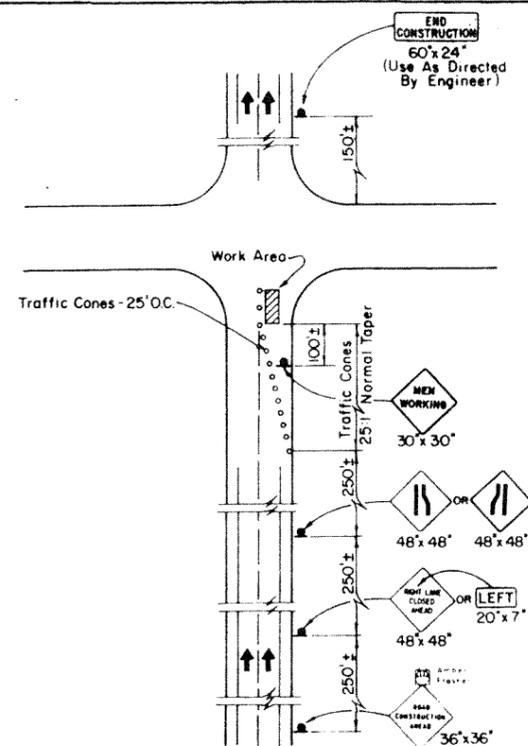
THIS PAGE FOR INFORMATION ONLY

U.S. Steel Products Co. Pac. Coast Dept.
Burnside Bridge
over
Willamette River
Portland, Ore.
1-Don't Let Slivers Bore! - Spun
252-47 c.c. High Tensile
Scale 1/2 in. = 1 ft.

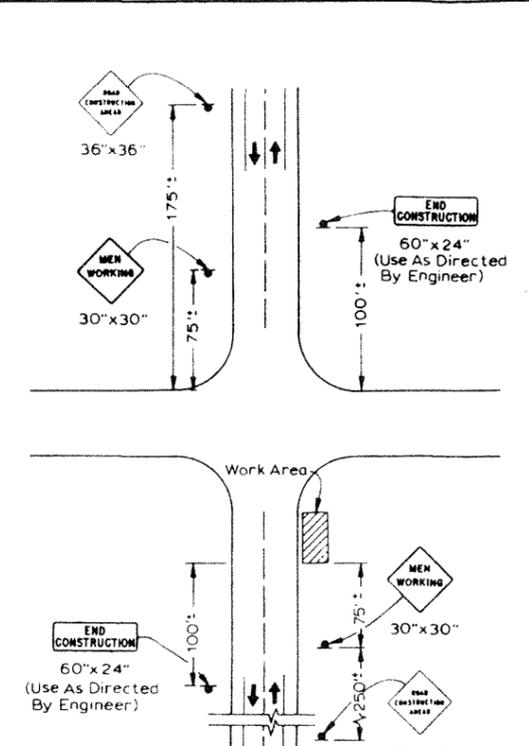
AMERICAN BRIDGE CO.
AMBRIDGE PLANT
Dept. 470 at Ambridge Pa. 2 is charge of work
Designed by J.P. Date 1/24/24 Checked by J.C. Date 1/24/24
F.W. Date 1/24/24
ORDER NO. E5950-XI SHEET NO. 69

NOTES:
MATERIAL Wrought Iron except as noted
SPECIFICATIONS By Hendrich & Gross.
INSPECTION P. T. L.
ERECTION By Others.
PAINTS
OPEN HOLES
As noted on this drawing.

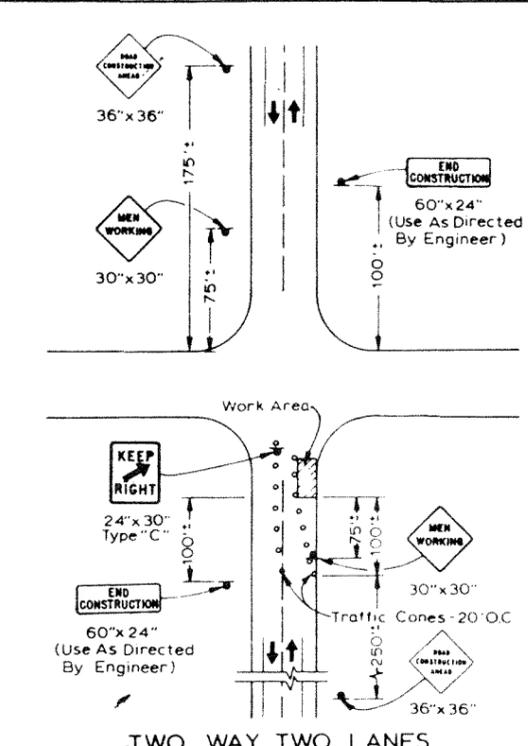
2-6.3c



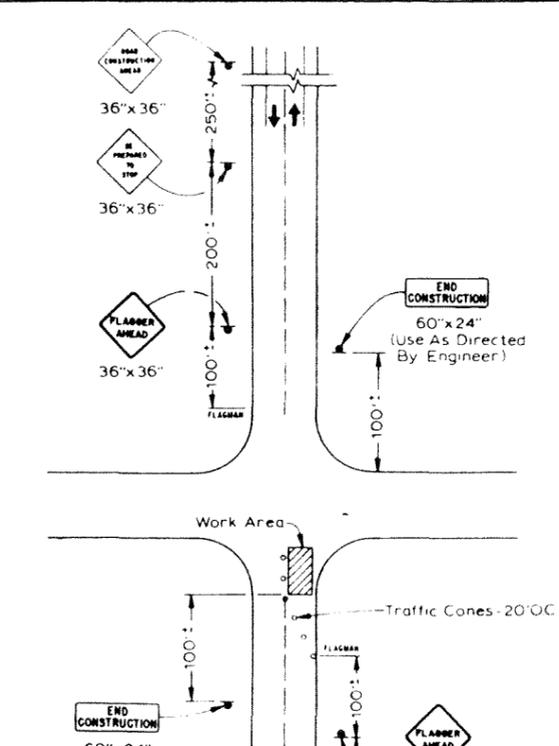
ONE WAY, TWO LANES
ONE LANE CLOSED



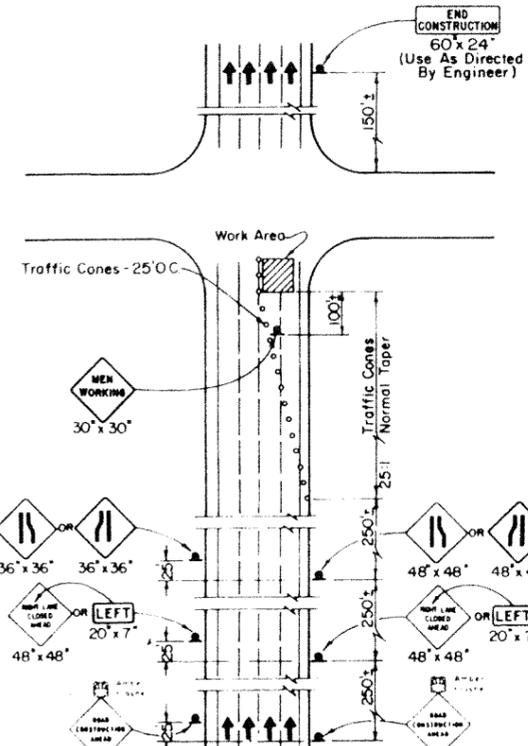
TWO WAY, TWO LANE
NO LANES CLOSED



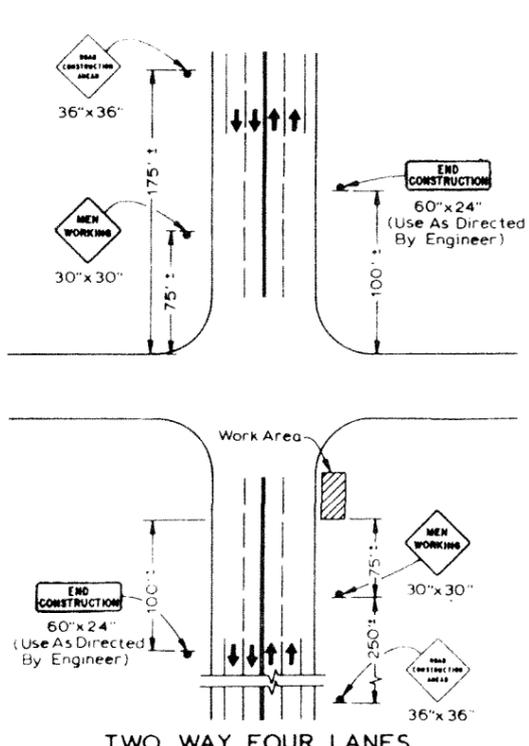
TWO WAY, TWO LANES
ONE LANE PARTIALLY CLOSED



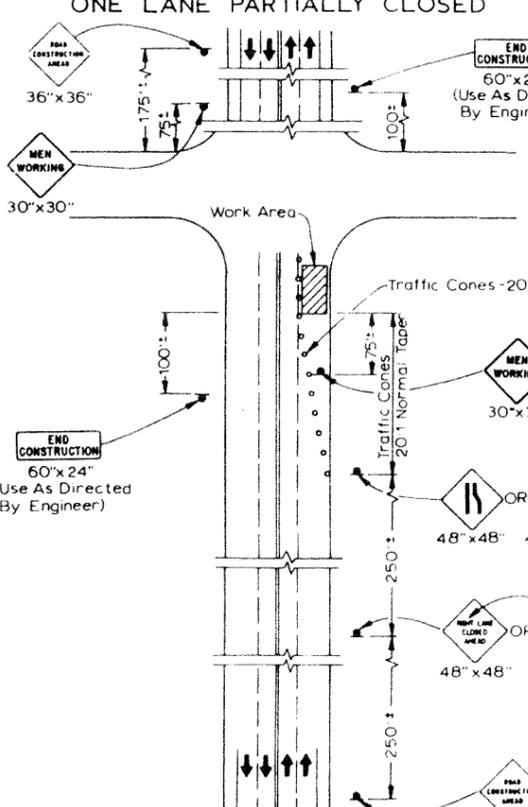
TWO WAY, TWO LANE
ONE LANE CLOSED



ONE WAY, FOUR LANES
ONE (OR TWO) LANES CLOSED



TWO WAY, FOUR LANES
NO LANES CLOSED



TWO WAY, FOUR LANES
ONE LANE CLOSED

- GENERAL NOTES:**
1. Typical examples shown are for use only on lower speed city streets.
 2. Signs and traffic cones shown are the minimum required.
 3. All signs are to be Type "O" unless otherwise noted.
 4. Sign and traffic cone locations are shown for only one street of the intersection; they are also to be installed on the cross street when work on the cross street affects traffic.
 5. The "BE PREPARED TO STOP" sign shall be used only in conjunction with the "FLAGGER AHEAD" sign.

To be accompanied by Drg. S-1, S-5, S-6 & S-12

NOTE:
All material and workmanship shall be in accordance with the current State of Oregon Standard Specifications For Highway Construction

STATE OF OREGON STATE HIGHWAY DIVISION STANDARD		APPROVED <i>[Signature]</i> ASST. STATE HIGHWAY ENGINEER
TEMPORARY PROTECTION & DIRECTION OF TRAFFIC SIGNAL INSTALLATIONS & INTERSECTIONS		
JUNE 1, 1974		
DATE	REVISIONS	DRG. NO. 2200
12-1-80	ONE-WAY CLOSURES ADDED	
JAN 1982	NOTE 5 REVISED	

NOTE
THE SCALE OF THIS PRINT IS
APPROXIMATELY 45% OF THE
ORIGINAL DRAWING
DO NOT SCALE

All signs on this sheet shall be Type "C" unless noted otherwise.

Regulatory signs shall have non-reflectORIZED black letters, symbols and borders on a white background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed sign drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin and corner radii shall be as follows unless noted otherwise.

BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADIUS
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



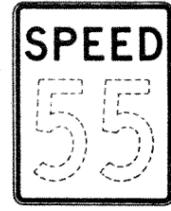
Corners not to be rounded

SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	BORDER	
R1-1-30	30" x 30"	10" x 10"	1"	1"

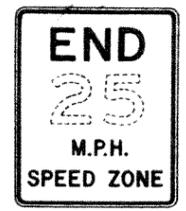
* Reduce spacing by 40%.



SIGN SPECIFICATIONS						
SIGN NUMBER	DIMENSIONS	BORDER	CORNER RADIUS	LEGEND	RADIUS	LETTERS
R1-2-36	36" x 36"	1"	1"	1"	1"	3"
R1-2-48	48" x 48"	1"	1"	1"	1"	4"



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR2-1-48	36" x 48"	8" D	10" C	LINE 1 LINE 2 LINE 3 LINE 4	
DR2-1-60	48" x 60"	10" D	12" C		



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR2-8-48	36" x 48"	8" E	12" E	4" D	4" D

* Reduce spacing by 33%.



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R2-5C-48	36" x 48"	8" C	8" C	8" C	
R2-5C-60	48" x 60"	10" C	10" C	10" C	



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R3-1-30	24" x 24"			
R3-1-36	30" x 30"			



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R3-2-24	24" x 24"			
R3-2-30	30" x 30"			



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R3-3-24	24" x 24"	8" D	5" D		

* Reduce spacing by 35%.



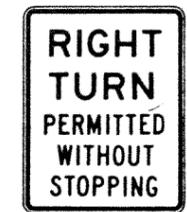
SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	HEAD	SHAFT
R3-5-36	30" x 36"	8" D	10" x 10"	1"	1"



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	HEAD	SHAFT
R3-5R-36	30" x 36"	8" D	10" x 10"	1"	1"



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR3-0-30	24" x 30"	4" E	4" E	3" C	3" C



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR3-1-30	24" x 30"	4" E	4" E	3" C	3" C



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR3-1-30	24" x 30"	4" E	4" E	3" C	3" C

* Reduce spacing by 40%.



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES
R4-1-48	36" x 48"	8" C	8" C	
R4-1-60	48" x 60"	10" C	10" C	



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R4-3-48	36" x 48"	8" D	8" D	8" D	8" D
R4-3-60	48" x 60"	10" D	10" D	10" D	10" D

* Reduce spacing by 25%.



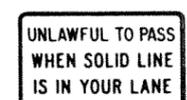
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R4-7-30	24" x 30"			
R4-7-48	36" x 48"			



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R4-9-30	24" x 30"	8" D	8" D	10" x 10"	4" D
R4-9-48	36" x 48"	10" D	10" D	12" x 12"	4" D



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R4-9-30	24" x 30"	8" D	8" D	10" x 10"	4" D
R4-9-48	36" x 48"	10" D	10" D	12" x 12"	4" D



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR4-9-36	30" x 36"	8" C	8" C	3" C	3" C

* Reduce spacing by 50%.



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R5-1-30	30" x 30"	4" D	4" D	2"	
R5-1-36	36" x 36"	5" D	5" D	2"	
R5-1-48	48" x 48"	6" D	6" D	2"	



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
R5-3-24	24" x 24"	4" D	4" D	2"	
R5-3-30	30" x 30"	5" D	5" D	2"	
R5-3-36	36" x 36"	6" D	6" D	2"	



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R6-1-12	36" x 12"	4" C	10" x 10"	1"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R6-1-12	36" x 12"	4" C	10" x 10"	1"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R6-2-30	24" x 30"	5" D	10" x 10"	1"
R6-2-36	30" x 36"	6" D	12" x 12"	1"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW	
R6-2-24	24" x 24"	5" D	10" x 10"	1"
R6-2-30	30" x 30"	6" D	12" x 12"	1"



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	B	SERIES	
DR-4-36	36" x 36"	8" C	8" D		

* Reduce spacing by 50%.

NOTE
THE SCALE OF THIS PRINT IS APPROXIMATELY 45% OF THE ORIGINAL DRAWING.
DO NOT SCALE

DATE	INITIAL	REVISION
9/72	SL	Revised R5-9 & R5-1
4/73	SL	General Revision
1/74	SL	Deleted DR2-7
1/74	SL	Added R1-2
7/74	SL	Revised R1-1
4/76	SL	Revised DR4-9
4/76	SL	Deleted DR2-10 & R2-2
4/76	SL	Added DR2-6
4/79	SL	Removed Plaques
9/80	SL	Revised R2-5C

APPROVED: *[Signature]*
TRAFFIC ENGINEER

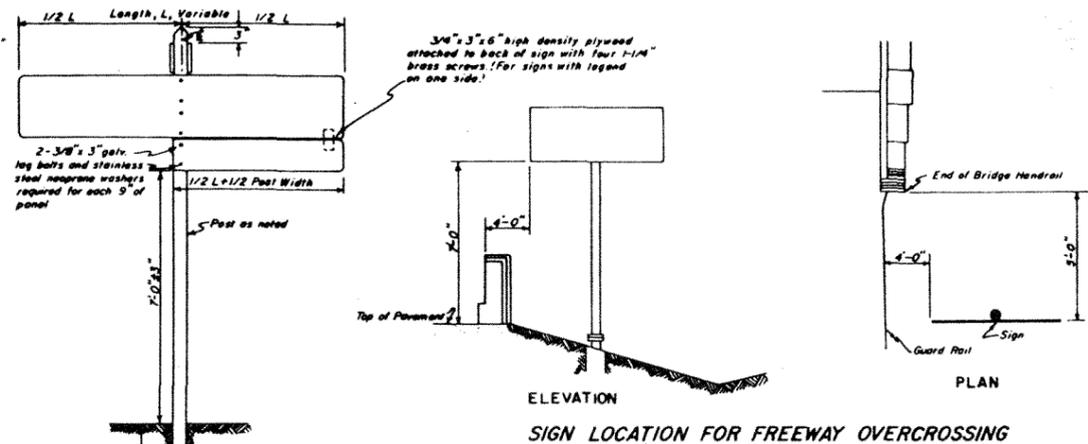
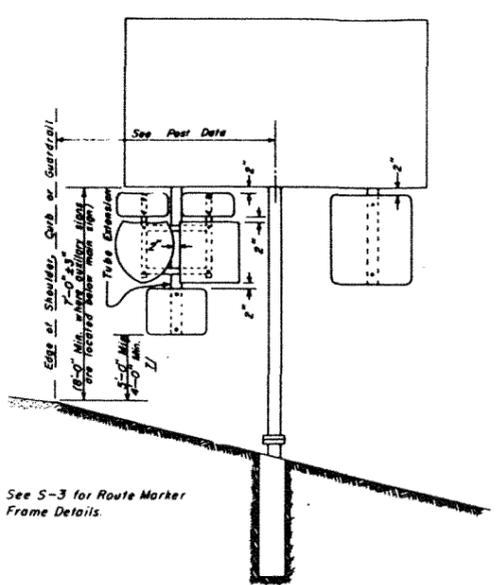
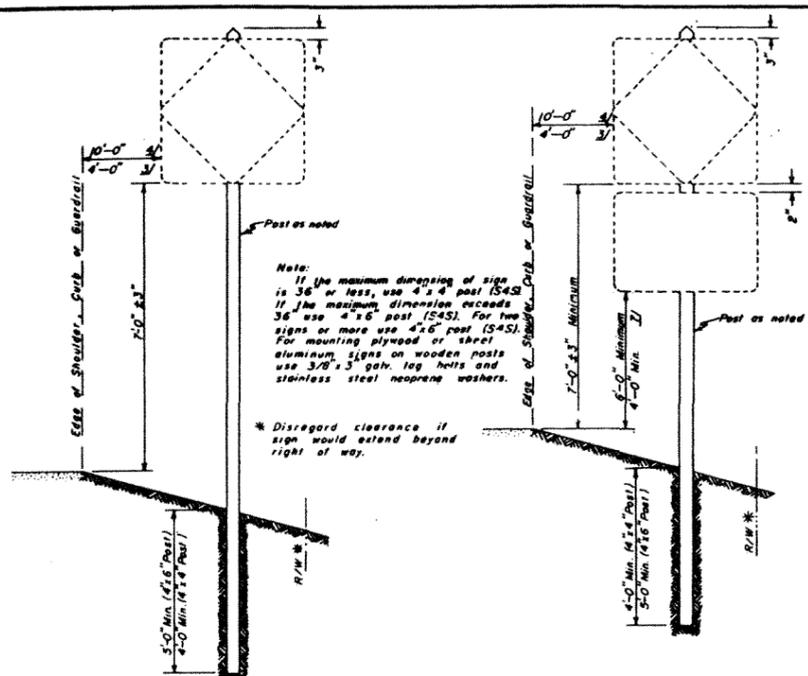
OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

STANDARD
SIGNING DETAILS
REGULATORY SIGNS

DATE: June 1972

T.E.S. DWG NO. S-5

3-2.5



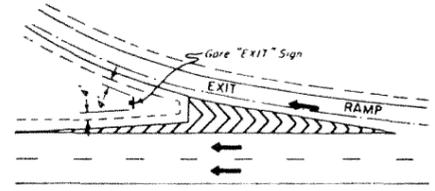
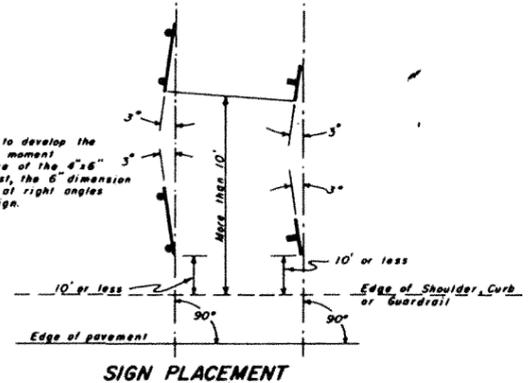
STANDARD SIGN CLEARANCES TO BE USED IF NO CLEARANCE IS INDICATED IN POST DATA

TYPE SIGN	BEHIND GUARDRAIL	NOT BEHIND GUARDRAIL
Route Shields 6/	4'-0"	10'-0" 4/
Control Signs 1/	4'-0"	10'-0" 4/
Guide Signs 2/	4'-0"	30'-0" 5/
Guide Signs 2/	4'-0"	20'-0" 5/

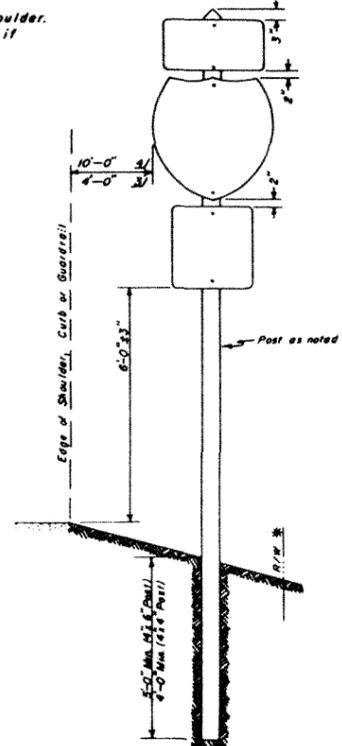
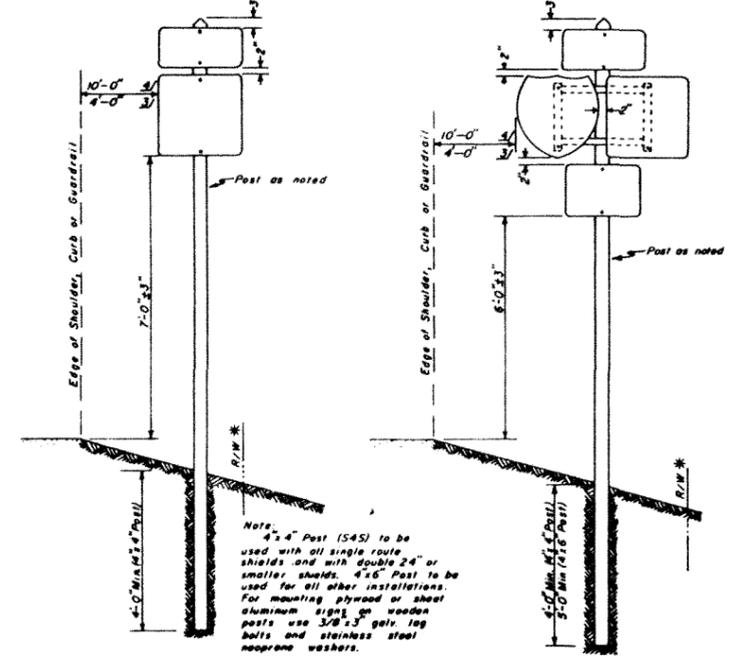
- 1/ Signs on main highway.
- 2/ Signs at ramp terminal.
- 3/ Distance from edge of sign to face of guardrail.
- 4/ Distance from edge of sign to curb or edge of shoulder.
- 5/ Distance from center of nearest post to curb or edge of shoulder.
- 6/ "STOP" signs shall always be installed at 6'-0" clearance, if not behind guardrail.
- 7/ For 2 lane rural roads only.

TYPICAL SIGN INSTALLATIONS

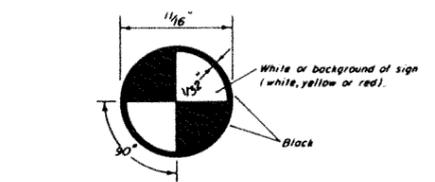
Note: In order to develop the maximum moment resistance of the 4"x6" wood post, the 6" dimension is to be at right angles to the sign.



TYPICAL "EXIT" SIGN INSTALLATION



ROUTE MARKER ASSEMBLIES



SIGN IDENTIFICATION MARKER

Note: Sign identification markers shall be located on the face and approximately 1/2" inside the border on all regulatory and warning signs. The marker shall be located in the lower left hand corner on all square and rectangular signs and centered on the bottom of the sign on all other shapes (diamond, round, octagon, etc.). The marker may be applied by any method desired. The application process shall be in conformance with industry standards and last the life of the sign.

TYPE	SIGN	BACKGROUND	LEGEND
A	Aluminum Panels	Green non-reflectORIZED sheeting	ReflectORIZED White removable
AA	Aluminum Panels	Green reflectORIZED sheeting	ReflectORIZED White removable
B	Aluminum Panels	Blue non-reflectORIZED sheeting	ReflectORIZED White removable
BB	Aluminum Panels	Blue reflectORIZED sheeting	ReflectORIZED White removable
C	Sheet Aluminum or Plywood	White reflectORIZED sheeting	Non-reflectORIZED Black screened
D	Sheet Aluminum or Plywood	Yellow reflectORIZED sheeting	Non-reflectORIZED Black screened
E	Sheet Aluminum or Plywood	White reflectORIZED sheeting overlaid with Red transparent paste	ReflectORIZED White screened
F	Sheet Aluminum or Plywood	White reflectORIZED sheeting overlaid with Red and Blue transpar paste	ReflectORIZED White screened
G	Sheet Aluminum or Plywood	White reflectORIZED sheeting overlaid with Blue transparent paste	ReflectORIZED White screened
M	Sheet Aluminum	White reflectORIZED sheeting overlaid with Red and Blue transpar paste	ReflectORIZED White screened
P	Plywood	Green Acrylic overlay	ReflectORIZED White Cut Out
Q	Plywood	Blue Acrylic overlay	ReflectORIZED White Cut Out
R	Sheet Aluminum	White reflectORIZED sheeting	Non-reflectORIZED Black screened
T	Sheet Aluminum or Plywood	White reflectORIZED sheeting	Transparent Red screened
U	Plywood	Green reflectORIZED sheeting	ReflectORIZED White Cut Out
V	Plywood	Blue reflectORIZED sheeting	ReflectORIZED White Cut Out
CC	Sheet Aluminum or Plywood	White non-reflectORIZED sheeting	Non-reflectORIZED Black screened
DD	Sheet Aluminum or Plywood	Yellow non-reflectORIZED sheeting	Non-reflectORIZED Black screened
O	Sheet Aluminum or Plywood	Orange reflectORIZED sheeting	Non-reflectORIZED Black screened
H	Sheet Aluminum or Plywood	White reflectORIZED sheeting	Screened non-reflectORIZED Black with a reflectORIZED circle and continuous diagonal bar overlaid with Red transparent paste
I	Sheet Aluminum or Plywood	Yellow reflectORIZED sheeting (The center circle shall be part of background)	Screened non-reflectORIZED Black and reflectORIZED circles overlaid with Red and Green transparent paste
EE	Sheet Aluminum or Plywood	Silver-white encapsulated reflectORIZED sheeting overlaid with Red transparent paste	Encapsulated reflectORIZED Silver-white screened
EEE	Sheet Aluminum or Plywood	White reflectORIZED sheeting (Outer triangle is part of legend)	Screened Red transparent paste

MATERIAL DESCRIPTION

DATE	INITIAL	REVISION
9/72		Added Type "EE"
2/74		Removed Arrow Detail
2/74		Added Type "EEE" Signs
2/74		Revised "EXIT" Sign Locations
5/74		Added "typical conditions" note
7/74		Revised Type "C", "D", "I", "B", "EEE" Signs
9/74		Revised Type "C", "D", "I", "B", "EEE" Signs
8/75		Added Sign Identification Marker
3/79		Revised Type "A" and "B" Signs

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

STANDARD SIGNING DETAILS INSTALLATION

DATE: JUN 1972

APPROVED: *[Signature]*
TRAFFIC ENGINEER

T.E.S. DWG. NO. S-1

All signs on this sheet shall be Type "C" unless noted otherwise.

Regulatory signs shall have non-reflectORIZED black letters, symbols and borders on a white background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed sign drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin and corner radii shall be as follows unless noted otherwise.

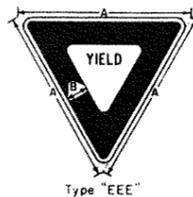
BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADIUS
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



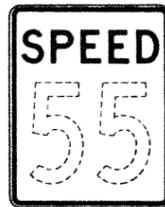
Corners not to be rounded

SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	BORDER
R1-24	24" x 24"	8" x 8"	5/8"
R1-30	30" x 30"	10" x 10"	5/8"

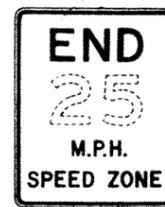
* Reduce spacing by 40%.



SIGN SPECIFICATIONS					
SIGN NUMBER	DIMENSIONS	BORDER	CORNER RADIUS	LEGEND RADIUS	LETTERS
R1-2-36	36"	5"	3"	1 1/4"	3" x 3"
R1-2-48	48"	6"	3"	2"	4" x 4"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
OR2-4-48	48" x 48"	8" x 8"	20" C
OR2-4-60	60" x 60"	8" x 8"	30" C



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
OR2-4-48	36" x 48"	8" x 8"	12" E, 4" B, 4" D, 4" O

* Reduce spacing by 33%.



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R2-30-48	48" x 48"	8" x 8"	8" C, 8" D, 8" E
R2-30-60	60" x 60"	10" x 10"	10" C, 10" D, 10" E



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R3-24-24	24" x 24"	8" x 8"	1 1/2"
R3-30-30	30" x 30"	10" x 10"	1 1/2"
R3-36-36	36" x 36"	12" x 12"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R3-24-24	24" x 24"	8" x 8"	1 1/2"
R3-30-30	30" x 30"	10" x 10"	1 1/2"
R3-36-36	36" x 36"	12" x 12"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R3-24-24	24" x 24"	8" x 8"	3" O

* Reduce spacing by 35%.



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R3-24-24	24" x 24"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R3-36-36	36" x 36"	12" x 12"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
OR3-30-24	24" x 30"	4" x 4"	3" C, 3" D, 3" E



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
OR3-30-24	24" x 30"	4" x 4"	3" C, 3" D, 3" E



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R4-24-24	24" x 24"	8" x 8"	8" B

* Reduce spacing by 40%.



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R4-2-48	36" x 48"	8" x 8"	8" C, 8" D, 8" E



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R4-3-48	36" x 48"	8" x 8"	8" C, 8" D, 8" E
R4-3-60	48" x 60"	8" x 8"	8" C, 8" D, 8" E

* Reduce spacing by 25%.



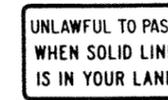
SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R4-2-48	36" x 48"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	ARROW
R4-2-48	36" x 48"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	ARROW
R4-2-30	24" x 30"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R4-2-48	36" x 48"	8" x 8"	8" C, 8" D, 8" E

* Reduce spacing by 50%.



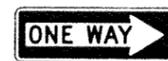
SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R5-30-30	30" x 30"	8" x 8"	8" C, 8" D, 8" E
R5-36-36	36" x 36"	8" x 8"	8" C, 8" D, 8" E
R5-48-48	48" x 48"	8" x 8"	8" C, 8" D, 8" E



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	CORNER RADIUS
R5-30-30	30" x 30"	8" x 8"	3"
R5-36-36	36" x 36"	8" x 8"	3"
R5-48-48	48" x 48"	8" x 8"	3"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R6-2-36	36" x 36"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R6-2-36	36" x 36"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R6-2-30	24" x 30"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	ARROW
R6-2-30	24" x 30"	8" x 8"	1 1/2"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LETTERS
R6-4-36	48" x 36"	8" x 8"	8" C, 8" D, 8" E

* Reduce spacing by 50%.

NOTE
THE SCALE OF THIS PRINT IS
APPROXIMATELY 45% OF THE
ORIGINAL DRAWING
DO NOT SCALE

DATE	INITIAL	REVISION
9/72	JS	Revised R5-9 & R5-1
4/73	JS	General Revision
1/74	JS	Deleted OR2-7
1/74	JS	Added R1-2
7/74	JS	Revised R1-1
4/76	JS	Revised OR4-9
4/76	JS	Deleted OR2-10 & R2-2
4/76	JS	Added OR2-6
4/79	JS	Removed Plaques
9/80	JS	Revised R2-5c

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION
**STANDARD
SIGNING DETAILS
REGULATORY SIGNS**

DATE: JUNE 1972
APPROVED: *James*
TRAFFIC ENGINEER
S-5
T.E.S. DWG NO. S-5

All signs on this sheet shall be Type "D" when used as permanent signing and Type "O" when used on maintenance or construction work, unless noted otherwise.

Warning signs shall have non-reflectORIZED black letters, symbols and borders on a yellow or orange background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed sign drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin, and corner radii shall be as follows unless noted otherwise.

BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADII
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-IL-30	30" x 30"
W1-IL-48	48" x 48"



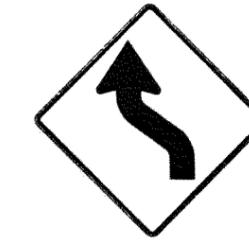
SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-IR-30	30" x 30"
W1-IR-48	48" x 48"



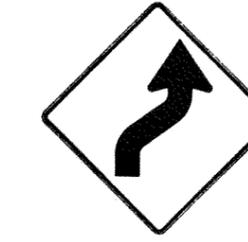
SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-2L-30	30" x 30"
W1-2L-48	48" x 48"



SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-2R-30	30" x 30"
W1-2R-48	48" x 48"



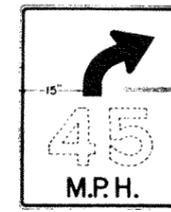
SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-4L-30	30" x 30"
W1-4L-48	48" x 48"



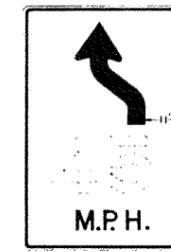
SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W1-4R-30	30" x 30"
W1-4R-48	48" x 48"



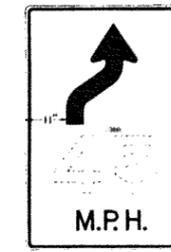
SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	SERIES
OW1-BL-60	48" x 60"	4" & 5"	8" & 1"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	SERIES
OW1-BR-60	48" x 60"	4" & 5"	8" & 1"



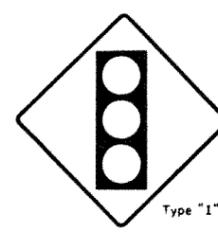
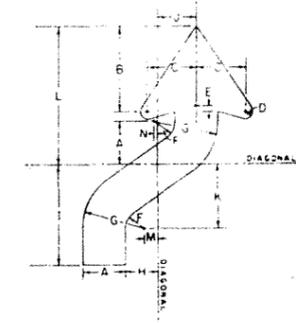
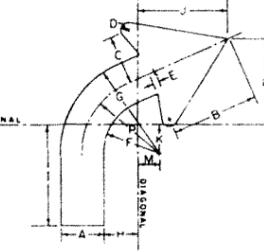
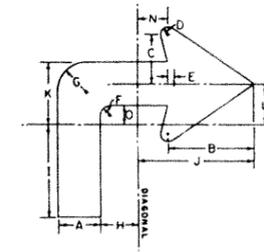
SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	SERIES
OW1-9L-72	48" x 72"	4" & 5"	8" & 1"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	SERIES
OW1-9R-72	48" x 72"	4" & 5"	8" & 1"



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT	SERIES
W3-11-36	36" x 36"	7" & 8"	7" & 8"
W3-11-48	48" x 48"	9" & 10"	9" & 10"



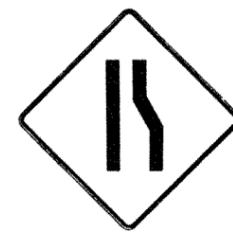
Type "1"

SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT & SERIES
W3-11-36	36" x 36"	4" x 5"	4" & 5"
W3-11-48	48" x 48"	4" x 5"	4" & 5"

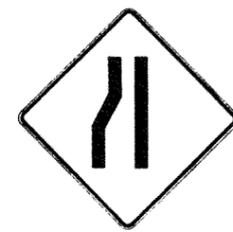


SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT & SERIES
W4-11-30	30" x 30"	4" x 5"	5" & 6"
W4-11-48	48" x 48"	4" x 5"	5" & 6"

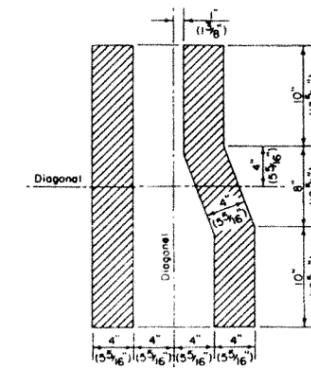
* Reduce spacing by 20%.



SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W4-2L-36	36" x 36"
W4-2L-48	48" x 48"



SIGN SPECIFICATIONS	
SIGN NUMBER	BOARD SIZE
W4-2R-36	36" x 36"
W4-2R-48	48" x 48"



Details For W4-2L (W4-2R Reversed)

NOTE
THE SCALE OF THIS PRINT IS APPROXIMATELY 45% OF THE ORIGINAL DRAWING.
DO NOT SCALE

SIGN NO.	BOARD SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
W1-IL-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	1	3	3 3/4	9 1/16	12	6 1/4	4 1/16	—	3 1/8	1 7/8	—
W1-IL-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	1 9/16	4 7/8	6	15 1/2	19 3/16	10	6 1/2	—	5	3	—
W1-IR-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	1	3	3 3/4	9 1/16	12	6 1/4	4 1/16	—	3 1/8	1 7/8	—
W1-IR-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	1 9/16	4 7/8	6	15 1/2	19 3/16	10	6 1/2	—	5	3	—
W1-2L-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	5 5/8	10	3 1/16	10 5/16	9 1/16	2 5/16	8 7/8	2 3/16	—	—	7 1/2
W1-2L-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	9	16	5 1/2	16 1/2	14 1/2	4 1/16	14 3/16	3 1/2	—	—	12 1/2
W1-2R-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	5 5/8	10	3 1/16	10 5/16	9 1/16	2 5/16	8 7/8	2 3/16	—	—	7 1/2
W1-2R-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	9	16	5 1/2	16 1/2	14 1/2	4 1/16	14 3/16	3 1/2	—	—	12 1/2
W1-4L-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	1 7/8	6 1/4	3 3/16	10 5/16	3 5/16	6 9/16	4 1/16	1 3/32	3/8	—	—
W1-4L-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	3	10	5 1/4	16 1/2	16 9/16	10 1/2	22 1/2	2 1/4	3/8	—	—
W1-4R-30	30" x 30"	4 3/8	8 7/8	5	7/8	1 1/16	1 7/8	6 1/4	3 3/16	10 5/16	3 5/16	6 9/16	4 1/16	1 3/32	3/8	—	—
W1-4R-48	48" x 48"	7	14 3/16	8	1 3/8	1 1/16	3	10	5 1/4	16 1/2	16 9/16	10 1/2	22 1/2	2 1/4	3/8	—	—
OW1-BL-60	48" x 60"	7	14 3/16	8	1 3/8	1 1/16	9	16	5 1/2	7 1/2	14 1/2	4 1/16	14 3/16	3 1/2	—	—	12 1/2
OW1-BR-60	48" x 60"	7	14 3/16	8	1 3/8	1 1/16	9	16	5 1/2	7 1/2	14 1/2	4 1/16	14 3/16	3 1/2	—	—	12 1/2
OW1-9L-72	48" x 72"	7	14 3/16	8	1 3/8	1 1/16	3	10	5 1/4	13 1/2	6 9/16	10 1/2	22 1/2	2 1/4	5/8	—	—
OW1-9R-72	48" x 72"	7	14 3/16	8	1 3/8	1 1/16	3	10	5 1/4	13 1/2	6 9/16	10 1/2	22 1/2	2 1/4	5/8	—	—

ARROW DETAILS FOR W1 SERIES SIGNS

DATE	INITIAL	REVISION
4/73		General Revision
11/77		Revised OW1-BL & OW1-BR
4/79		Removed Plaques

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

STANDARD
SIGNING DETAILS
WARNING SIGNS

DATE June 1972

APPROVED: *R. S. George*
TRAFFIC ENGINEER

T & S DWG NO. S-6

All signs on this sheet shall be Type "D" when used as permanent signing and Type "C" when used on maintenance or construction work, unless noted otherwise.

Warning signs shall have non-reflectORIZED black letters, symbols and borders on a yellow or orange background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed highway signs drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin, and corner radii shall be as follows unless noted otherwise.

BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADI
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W3-2-30	30" x 30"	5" x 8"	5"	W3
W3-2-48	48" x 48"	8" x 8"	8"	W3

* Reduce spacing by 20%.



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W8-1-36	36" x 36"	4" x 4"	4"	W8
W8-1-48	48" x 48"	6" x 6"	6"	W8



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W8-2-36	36" x 36"	3" x 3"	3"	W8
W8-2-48	48" x 48"	5" x 5"	5"	W8



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W8-3-30	30" x 30"	4" x 4"	4"	W8
W8-3-48	48" x 48"	6" x 6"	6"	W8



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM5-4-48	48" x 48"	8" x 8"	8"	DM5



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM5-4-48	48" x 48"	8" x 8"	8"	DM5



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM5-4-48	48" x 48"	8" x 8"	8"	DM5



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM5-4-48	48" x 48"	8" x 8"	8"	DM5



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM4-6-36	36" x 36"	3" x 3"	3"	DM4
DM4-6-48	48" x 48"	5" x 5"	5"	DM4



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W8-8-30	30" x 30"	5" x 5"	5"	W8
W8-8-48	48" x 48"	8" x 8"	8"	W8



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W9-11-36	36" x 36"	6" x 6"	6"	W9
W9-11-48	48" x 48"	8" x 8"	8"	W9



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W9-11-36	36" x 36"	6" x 6"	6"	W9
W9-11-48	48" x 48"	8" x 8"	8"	W9



SIGN SPECIFICATIONS			
SIGN NUMBER	BOARD SIZE	LETTERS	STROKE WIDTH
W10-1-36	36" Dia	R-R	3/16"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W11-1-48	48" x 48"	5" x 5"	5"	W11

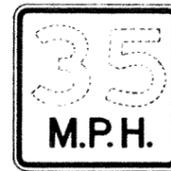


SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W12-2-30	30" x 30"	5" x 5"	5"	W12
W12-2-48	48" x 48"	8" x 8"	8"	W12



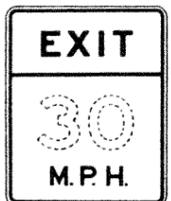
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W12-3-36	36" x 36"	3" x 3"	3"	W12
W12-3-48	48" x 48"	5" x 5"	5"	W12

* Reduce spacing by 50%



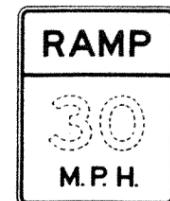
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W13-1-48	48" x 48"	5" x 5"	5"	W13
W13-1-60	60" x 60"	7" x 7"	7"	W13

* Increase spacing by 100%



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W13-2-48	48" x 48"	6" x 6"	6"	W13
W13-2-60	60" x 60"	8" x 8"	8"	W13

* Increase spacing by 100%



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
W13-3-48	48" x 48"	6" x 6"	6"	W13
W13-3-60	60" x 60"	8" x 8"	8"	W13

* Increase spacing by 100%



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	PLAQUE SIZE	LETTER HEIGHT	SERIES
DM6-4-36	36" x 36"	4" x 4"	4"	DM6



NOTE: THE SCALE OF THIS PRINT IS APPROXIMATELY 45% OF THE ORIGINAL DRAWING.
DO NOT SCALE

DATE	INITIAL	REVISION
4/73		General Revision
2/74		Add Prepare To Stop Sign DM5-14
4/79		Removed Plaques

APPROVED: *L.E. Jones*
TRAFFIC ENGINEER

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION
STANDARD SIGNING DETAILS WARNING SIGNS
DATE June, 1972

115 DWG NO. S-7

3-2.7



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
RD-6-36	24" x 36"	3"-D	3"-D	3"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
R1-2-30	48" x 30"	8"-D	8"-D	8"-D



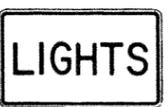
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
R1-2-30	48" x 30"	8"-D	8"-D	8"-D



SIGN SPECIFICATIONS					
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	CORNER RADIUS	LINE 1	LINE 2
R1-4-30	60" x 30"	8"-C	8"-C	8"-C	1"



Type "CC"



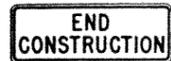
Type "CC"

SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
DM-1-24	30" x 24"	3 1/2"-C	3 1/2"-C	3 1/2"-C

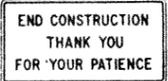
All signs in this section shall be Type "C" unless noted otherwise.

Regulatory signs shall have non-reflectORIZED black letters, symbols and borders on a white background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed sign drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin and corner radii shall be as follows unless noted otherwise.

BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADIUS
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
GD-2-24	48" x 24"	8"-C	8"-C	8"-C



SIGN SPECIFICATIONS						
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2	LINE 3	LINE 4
GD-20-3-48	96" x 48"	8"-C	8"-C	8"-C	8"-C	8"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
GD-20-4-24	48" x 24"	7"-C	7"-C	7"-C



SIGN SPECIFICATIONS						
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2	LINE 3	RADIUS
RD-11-36	60" x 36"	8"-C	8"-C	8"-C	8"-C	8"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-30-24	30" x 24"	3"-D	3"-D	3"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-30-24	30" x 24"	3"-D	3"-D	3"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-30-24	30" x 24"	3"-D	3"-D	3"-D

All signs in this section shall be Type "D" when used as permanent signing and Type "D" when used on maintenance or construction work, unless noted otherwise.

Warning signs shall have non-reflectORIZED black letters, symbols and borders on a yellow or orange background, unless noted otherwise. All backgrounds shall be reflectORIZED. The Federal Highway Administration's standard rounded capital letter alphabets and letter spacing shall be used unless noted otherwise. For detailed sign drawings and dimensions, see the publication "Standard Highway Signs" by the Federal Highway Administration, 1971. The border, margin and corner radii shall be as follows unless noted otherwise.

BOARD DIMENSIONS	BORDER	MARGIN	CORNER RADIUS
Either or both less than 30"	5/8"	3/8"	1 1/2"
Both 30"	3/4"	1/2"	1 7/8"
Both more than 30" & either less than 48"	7/8"	5/8"	2 1/4"
Both 48" or larger	1 1/4"	3/4"	3"



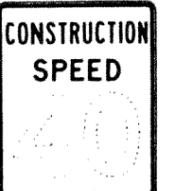
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-1-30	30" x 30"	8"-C	8"-C	8"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW1-1-30	30" x 30"	8"-D	8"-D	8"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-1-48	48" x 48"	8"-D	8"-D	8"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW23-1-36	36" x 36"	4"-C	4"-C	4"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW23-3-36	36" x 36"	8"-C	8"-C	8"-C



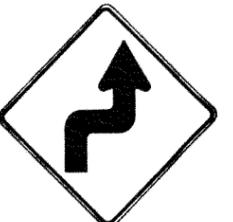
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW21-7-48	48" x 48"	8"-C	8"-C	8"-C



RIDERS FOR SIGN OW21-7-48



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW10-4-30	30" x 30"	7"-C	7"-C	7"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W1-30-48	48" x 48"	10"-D	10"-D	10"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W20-1-36	36" x 36"	3"-C	3"-C	3"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W20-2-48	48" x 48"	8"-D	8"-D	8"-D



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W20-4-48	48" x 48"	7"-C	7"-C	7"-C



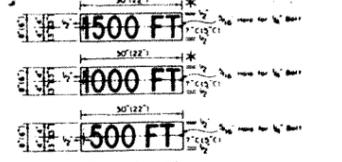
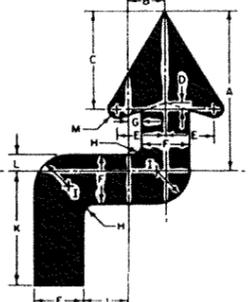
SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
W20-5-48	48" x 48"	8"-C	8"-C	8"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW20-7-48	48" x 48"	7"-C	7"-C	7"-C



SIGN SPECIFICATIONS				
SIGN NUMBER	BOARD SIZE	LETTER HEIGHT & SERIES	LINE 1	LINE 2
OW10-4-48	48" x 48"	7"-C	7"-C	7"-C



OVERLAYS FOR W20-(36) & 48 SIGNS

ARROW DETAILS FOR W1-3R & L SIGNS														
SIGN NUMBER	BOARD SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M
W1-30-30	30" x 30"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
W1-30-48	48" x 48"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"	2 1/4"

NOTE
THE SCALE OF THIS PRINT IS
APPROXIMATELY 46% OF THE
ORIGINAL DRAWING.
DO NOT SCALE

DATE	INITIAL	REVISION
12/78	ES	Added TRUCKS' sign OW10-4
4/73	ES	General Revision
2/75	ES	Remove SINGLE LANE AHEAD, revise TRUCKS' sign number
5/76	ES	Revised OW21-7
6/77	ES	Added W1-3R & L signs
2/80	ES	Revised M4-9, OW23-3, W20-5 & OW20-7. Added G20-1.

OREGON STATE HIGHWAY DIVISION
TRAFFIC ENGINEERING SECTION

STANDARD
SIGNING DETAILS
CONSTRUCTION SIGNS

DATE JUN 1972
APPROVED: *ES*
TRAFFIC ENGINEER
T E S DWG NO. S-12

3-2.12

Multnomah County
Animal Control Division

NIGHT SERVICES CONTRACT

FY 89/90

RFP. #9S0623

BACKGROUND

Multnomah County Animal Control (MCAC) is committed to providing a timely response to emergency and priority calls. These calls cover the following services:

- a. The humane impoundment and transportation to a veterinarian of injured and sick dogs and cats in cases where the owner is unknown or is unable to be reached.
- b. The confinement of loose livestock which present a public or traffic safety hazard.
- c. Requests from law enforcement agents to take custody of domestic animals whose owner is temporarily unable to care for them due to accident, arrest, or death.
- d. Requests for law enforcement agents to assist them in the impoundment of dangerous dogs, which are an immediate safety hazard.

This responsibility is a 24 hours-a-day, 365 days-a-year commitment. This service is provided by animal control officers during normal daytime hours. This service is made available by contract during the hours when normal operations are discontinued. The services rendered are response and transportation of animals to either a veterinarian or the animal shelter in Troutdale. No advanced emergency situation knowledge or skills are required. This service is provided throughout Multnomah County and all cities therein. MCAC will provide answering service and pager system.

SERVICE OBJECTIVES

1. Provide timely response on every call. An average response time of no longer than 30 minutes from the time the call is received to arrival at the scene.
2. Transport each injured or sick animal to a veterinary clinic, as designated by MCAC.
3. Humanely apprehend, handle, and transport all animals. Impoundment and confinement of animals will be according to directions of MCAC, whether prior directions or situational as needed. Appropriate and necessary forms shall be completed for each animal handled. MCAC provides the forms.

4. Treat the public in a courteous, helpful, and professional manner.
5. Provide uninterrupted service seven days a week, including holidays. Hours of service shall be: Monday through Friday from 2030 - 0630 hours; and, Saturday and Sunday from 2030 - 0800 hours.
6. Maintain and submit a monthly report of activities to MCAC no later than the fifth day of the following month, including the number of calls responded to, animals transported, milage, and other information requested . MCAC will supply appropriate report forms.
7. Perform only those animal control services authorized in this agreement. A call for service under this agreement shall only include those calls which have been received through the MCAC provided answering service. Any call received from sources other than the MCAC provided answering service shall not be authorized.
8. No drugs will be administered on any animals impounded under this agreement unless specifically authorized by MCAC.
9. Contractor's performance will be evaluated every 90 days by MCAC. All evaluations shall be in writing, and copies given to the contractor.
10. The Contractor shall demonstrate and maintain a competency level in animal handling skills to the satisfaction of MCAC. Competency levels shall be demonstrated and maintained by all employees providing contract work. MCAC may identify and provide appropriate training.
11. The contractor shall provide all equipment and all transportation requirements. All equipment and vehicles used by the contractor shall be approved by MCAC. Vehicles and equipment shall be maintained and used in a safe and professional manner.
12. The contractor shall provide MCAC with a current list of all employees performing contract work, along with their current drivers license numbers.
13. The contractor and employees shall obey all traffic laws, animal control ordinances, and all statutes regarding animal control work in the State of Oregon, County of Multnomah, and all municipalities within Multnomah County.

SERVICE RESPONSE EXPECTATIONS

Members of the public and law enforcement agents will access MCAC night services through the answering service provided by MCAC. No calls shall be accepted unless referred through this channel.

1. Injured and sick dogs and cats, where the owner is unknown or is unable to be reached.
 - a. Contractor responds to the scene and locates animal.
 - 1) If animal is found and is still alive, it will be transported to the veterinary clinic identified by MCAC for treatment and temporary sheltering.
 - 2) If animal is dead, the contractor will transport the animal to MCAC, as instructed.
 - 3) If animal cannot be located, the contractor will attempt to verify information with the person who reported the problem, if possible.
 - b. If the animal is impounded (dead or alive), the contractor will complete the animal record form provided by MCAC, as trained.
2. Loose livestock, on or with access to public roads, which present an immediate safety hazard. These calls shall only be accepted from a law enforcement agency, which has verified the information through an Officer on the scene.
 - a. Contractor responds to the scene and locates animal.
 - 1) Animal(s) shall be safely confined at or near the scene. The animal(s) may be returned to pasture, left with a consenting neighbor, or tied safely.
 - 2) If the animal cannot be located, patrol area and try to contact the person who reported the problem or the responding law enforcement agency, for more information.
 - b. Contractor will phone MCAC immediately to notify them of the situation and the present location of animal(s), the name of the owner, and any other information. MCAC will provide additional instructions, if necessary.
3. Protective custody calls. These are requests from law enforcement agencies to assist them by taking owned animals into MCAC custody and when the owner is temporarily unable to provide needed care due to accident, arrest, death, etc.
 - a. Contractor responds to the scene and impounds all animals as requested by law enforcement officials at the scene.
 - 1) Animals are to be transported to MCAC and sheltered there as directed by MCAC, unless the animal is sick or injured.
 - 2) All appropriate forms, provided by MCAC, shall be completed at the scene.
 - 3) MCAC shall be phoned immediately, if unusual circumstances exist and specific instructions are needed.

4. Loose, dangerous dogs posing an immediate safety hazard. These calls are requests received from law enforcement agents on the scene.
 - a. Contractor responds to the scene and impounds the loose, dangerous dog if its owner is not present or is unable to control the dog.
 - b. If unable to locate the dog, contractor will patrol area and attempt to contact the person who reported the incident for more information.
 - c. If the dog is impounded, the contractor will transport the dog to MCAC immediately, shelter it as directed, and complete all forms provided by MCAC.
 - d. The contractor will notify MCAC before noon of next day, of the outcome of call.

PROPOSAL ELEMENTS

Your proposal must contain the following:

1. An outline of how each of the Service Objectives will be met.
2. Your understanding of the scope of the work required and the manner in which you plan to approach it.
3. Your cost per response based on 70 calls per month, for fiscal year 1989/90 (July 1, 1989 through June 30, 1990). Include cost adjustment factors for fewer than and more than the estimated 70 calls per month, a list of all associated costs, and the total bid amount.
4. A statement of qualifications on the forms provided.

STATEMENT OF QUALIFICATIONS

Each individual or firm submitting a proposal shall present a summary of pertinent qualifications and professional experience. Past performance, if applicable, shall be considered. The County retains the right to request and contact references.

EVALUATION CRITERIA

The following is an outline of the general areas which will be used to evaluate the proposal:

1. The contractor's experience and knowledge in the humane apprehension, handling and transportation of injured and sick animals (25 points possible).
2. The contractor's experience and knowledge in the humane apprehension and handling of: potentially dangerous dogs (10 points possible); and, Livestock (5 points possible).

3. The contractor's ability to respond to the scene on every call ensuring that the County receives reliable service, including the contractor's plans for providing back-up services and communications (35 points possible).
4. The contractor's ability to treat the public, veterinarians, and other agencies involved in animal welfare issues in a courteous, helpful, and professional manner (25 points possible).
5. The cost per response at which the contractor will provide the services (10 points possible).

EVALUATION PROCEDURE

Proposals will be evaluated by an evaluation committee. Each criteria has been assigned possible points. The contractor receiving the highest cumulative score shall be recommended as the successful contractor.

PROPOSAL SUBMISSION

Respondents must submit an original and four (4) complete copies of the proposal to: Purchasing Director, Multnomah County, 2505 S.E. 11th Avenue, Portland, Oregon, 97202, no later than 2:00 p.m. on June 15, 1989. LATE PROPOSALS WILL NOT BE ACCEPTED.

CLARIFICATION

Any vendor requiring clarification of the information or protesting any provision herein, must submit specific comments in writing to:

Franna Ritz, Purchasing Program Coordinator
Purchasing Section
2505 S.E. 11th Avenue
Portland, OR 97202

The deadline for submitting such questions or comments is June 8, 1989. A written response will be provided to those questions which are deemed appropriate, copies of which will be sent to all vendors in receipt of this RFP. Questions will not be answered verbally except those which would clarify specifications and requirements of this RFP and as further provided herein. However, any actions or changes resulting from these communications will be forwarded to all bidders as an addendum to this RFP.

Oral instructions or information concerning the specifications for the projects or requirements given out by County officers, employees, or agents to prospective bidders shall not bind the County. Any addenda shall be issued by the Purchasing Director not later than five (5) days prior to bid opening.

REJECTION OF PROPOSALS

Multnomah County reserves the right to reject any or all responses to this Request for Proposal.

COST OF PREPARATION OF RESPONSE

Costs incurred by any agency in the preparation of the response to this Request for Proposal are the responsibility of the responding agency and will not be reimbursed by the County.

CANCELLATION

Multnomah County reserves the right to cancel award of the contract at any time before execution of the contract by both parties if cancellation is deemed to be in Multnomah County's best interest. In no event shall Multnomah County have any liability for the cancellation of award. The bidder assumes the sole risk and responsibility for all expenses connected with the preparation of its proposal.

STATE LAW COMPLIANCE

The successful proposer agrees to make payment promptly as due to all persons supplying such successful proposer with labor or materials for the prosecution of the work provided for in this contract, and that said successful proposer will not permit any lien or claim to be filed or prosecuted against the County on account of any labor or material furnished, and agrees further that no person shall be employed for more than eight hours in any one day, or forty hours in any one week; unless in case of necessity or emergency, or where the public policy absolutely requires it, and in such case to pay wages in accordance with the provisions of ORS 279.334 and ORS 279.338 where applicable.

The successful proposer agrees that should the successful proposer fail, neglect or refuse to make prompt payment of any claim for labor or services furnished by any person for the prosecution of the work provided in this contract as said claim becomes due, whether said services and labor be performed for said successful proposer or a sub-contractor, fail, neglect, or refuse to make all contributions or amounts due the State Industrial Accident Fund or to the State Unemployment Compensation Fund, and all sums withheld from employees due the State Department of Revenue, then and in such event the said County and the other proper officers representing said County may pay such claim or funds to the person furnishing such labor or services or to the State Industrial Accident Commission or to the State Unemployment Compensation or to the State Department of Revenue and charge the amount thereof against funds due or to become due said successful proposer by reason of his said contract, but payment of any such claims in the manner herein authorized shall not relieve the contractor or his surety from his or its obligation with respect to any unpaid claims.

The successful proposer shall promptly, as due, make payment to any person, copartnership, association or corporation furnishing medical, surgical or hospital care or other needed care and attention incident to sickness or injury to the employees of such successful proposer of all sums which the said successful proposer agrees to pay for such services, and all moneys and sums which the successful proposer may or shall have deducted from the wages of his/her employees for such services.

ASSIGNMENT

Neither the resultant contract nor any of the requirements, rights, or privileges demanded by it may be sold, assigned, contracted, or transferred by the Contractor without the express written consent of Multnomah County.

NONDISCRIMINATION IN EMPLOYMENT

The successful proposer's attention is directed to the provisions of Oregon Revised Statutes, Chapter 659, prohibiting discrimination in employment. ---

ATTACHMENT A

STATEMENT OF QUALIFICATIONS

1. Number of years in business _____

If not under present firm name, list previous firm names and types of organizations:

2. Contractor's Employer Identification No. _____, or social security number _____ (whichever is applicable)

3. List contracts your firm has performed of a similar nature in the last five years. (List most recent projects first.)

NAME & ADDRESS OF CONTRACTING AGENCY OR FIRM	CONTRACT DESCRIPTION	DATE OF COMPLETION
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

TO: DAILY JOURNAL OF COMMERCE

Please run the following Classified Advertisement as indicated below, under your "CALL FOR BID" section

MULTNOMAH COUNTY

Proposals Due: June 13, 1989 at 2:00 P.M.

Proposal No. B19-351-3519

Sealed proposals will be received by the Director of Purchasing, 2505 S.E. 11th Ave., Portland, OR 97202 for:

Emulsion Heating Kettle

as per specifications on file with the Purchasing Director. No proposal will be received or considered unless the proposal contains a statement by the bidder as part of his bid that the requirements of ORS 279.350 shall be included. Multnomah County reserves the right to reject any or all proposals.

Specifications may be obtained at: Multnomah County Purchasing Section

2505 S.E. 11th Avenue

Portland, OR 97202

(503) 248-5111

Lillie M. Walker, Director
Purchasing Section

PUBLISH: June 1, 1989

AD2:PURCH2



MULTNOMAH COUNTY OREGON

INVITATION FOR BIDS # B19-351-3519 To be opened 2 P.M. June 13, 1989

SEALED BIDS will be received by the Purchasing Director of Multnomah County in the Ford Building Lobby, 2505 S.E. 11th Avenue, Portland, Oregon, 97202, until 2 P.M. Pacific Time and will be publicly opened and read for furnishing Emulsion Heating Kettle

in estimated quantities and as per specifications as indicated herein. To insure proper bid identification and handling, USE THE BID ENVELOPE, attached herewith.

Protests to the specifications will not be considered unless detailed in official correspondence to the Purchasing Director and received five (5) days or more prior to the opening date.

As required by ORS 279.021, Multnomah County shall always--price, fitness and quality being equal--prefer supplies, goods, wares, merchandise, manufacturers or produce that has been grown, manufactured or produced in this State and shall next prefer such as have been partially manufactured, grown or produced in this State.

Also the constitutional debt limitation for counties requires any county contract which extends beyond the current fiscal year to be executed subject to future appropriations to fund its provisions, and contract documents will reflect this condition.

Pursuant to Multnomah County Administrative Rules, the County may, in its discretion, waive the bid security requirements of ORS 279.033 for contracts other than those for public improvements. No proposal will be considered unless accompanied by a check payable to Multnomah County, certified by a responsible bank, or in lieu thereof a surety bond for an amount equal to ten percent of the aggregate proposal, unless otherwise specified in the space provided below. The successful bidder may be required to furnish a performance bond satisfactory to the Board in the full amount of the contract.

Surety Bond: W A I V E D

The right is expressly reserved to reject any and all bids.

Dated at Portland, Oregon _____, 19__.

Board of County Commissioners
MULTNOMAH COUNTY, OREGON

Publication Dates June 1, 1989

By _____
Lillie M. Walker, Director
Purchasing Section

To the Board of County Commissioners:

The undersigned proposes to furnish the services herein mentioned at the unit price indicated, all in accordance with the specifications and provisions as herein above set forth, attached hereto and made a part hereof.

In compliance with ORS 279.350 for public works projects and as a part of this bid, the bidder herein agrees to covenant in his contract and it shall be a condition of his bond that in performing his contract he will pay and cause to be paid not less than the prevailing rate of wages as of the date of his bid in such county-per hour, per day and per week for and to each and every workman who may be employed in and about the performance of his contract. If the public officers who make the contract determine at any time that the prevailing rate of wages has not been or is not being paid as required by the contract, they may retain from the moneys due to the contractor an amount sufficient to make up the difference between the wages actually paid and the prevailing rate of wages, and they may also cancel the contract.

The undersigned bidder hereby represents as follows: That this bid is made without connection with any person, firm or corporation making a bid for the same material, and is in all respects fair and without collusion or fraud.

Delivery to be F.O.B. _____ within _____ days after receipt of order.

Accompanying this proposal is a _____ in the amount of _____ Dollars (\$ _____) which is not less than ten percent of the total amount of this bid.
("Certified Check" or "Surety Bond")

(Signature of bidder) _____
Legal name of firm or corporation

By _____
(Name)

Dated _____

(Title)

Address _____



PURCHASING DIVISION 503-248-5111
 2505 S.E. 11TH AVE. PORTLAND, OREGON 97202

VENDOR
 VENDOR

RETURN MULTNOMAH COUNTY
 FLEET SERVICES DIVISION
 TO: 1620 SE 190TH
 PORTLAND OR 97233

REQUEST FOR BID/QUOTATION

BID/QUOTATION
 DATE 06/13/89
 NAME HEAT KITTLE
 NUMBER 3193013519

OPEN DATE
 06/13/89

TO BE QUOTED F.O.B.
 DESTINATION

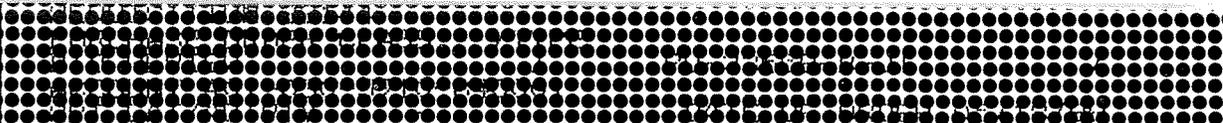
TERMS OF PAYMENT
 BID TO INDICATE



ITEM	MAT ID	QUANTITY	U/M	SPECIFICATIONS	UNIT PRICE	TOTAL PRICE
1		1	EA	<p>EMULSION HEATING KETTLE AS PER SPECIFICATIONS</p> <p>CANCELLATION OF AWARD</p> <p>MULTNOMAH COUNTY RESERVES THE RIGHT TO CANCEL AWARD OF THE CONTRACT RESULTING FROM THIS BID AT ANY TIME BEFORE EXECUTION OF THE CONTRACT BY BOTH PARTIES IF CANCELLATION IS DEEMED TO BE IN MULTNOMAH COUNTY'S BEST INTEREST. IN NO EVENT SHALL MULTNOMAH COUNTY HAVE ANY LIABILITY FOR THE CANCELLATION OF AWARD. THE BIDDER ASSUMES THE SOLE RISK AND RESPONSIBILITY FOR ALL EXPENSES CONNECTED WITH THE PREPARATION OF IT'S BID.</p> <p>TERMS OF PAYMENT</p> <p>DISCOUNTS FOR EARLY PAYMENT WILL BE CONSIDERED IN AWARDING THE BID IF AT LEAST 20 DAYS ARE ALLOWED FOR MAKING PAYMENT. DISCOUNT TIME SHALL COMMENCE UPON RECEIPT OF MATERIAL/SERVICES OR PROPERLY EXECUTED INVOICE, WHICHEVER IS THE LATER.</p> <p>PLEASE INDICATE TERMS IN SPACE PROVIDED ABOVE ON PAGE 1</p> <p>IF TERMS ARE NOT INDICATED ON THE BID/QUOTE THE INVOICE(S) WILL BE PAID ON A NET 30 DAYS BASIS.</p>		



PURCHASING DIVISION 503-248-5111
 2505 S.E. 11TH AVE. PORTLAND, OREGON 97202



VENDOR
 VENDOR

RETURN MULTNOMAH COUNTY
 FLEET SERVICES DIVISION
 TO: 1620 SE 190TH
 PORTLAND OR 97233

BID/QUOTATION
 DATE 06/13/89
 NAME HEAT KITTLE
 NUMBER B193513519

REQUEST FOR BID/QUOTATION

OPEN DATE
 06/13/89

TO BE QUOTED F.O.B.
 DESTINATION

TERMS OF PAYMENT
 BID TO INDICATE



ITEM	MAT ID	QUANTITY	U/M	SPECIFICATIONS	UNIT PRICE	TOTAL PRICE
<p>NONAPPROPRIATION</p> <p>THIS CONTRACT IS MADE EXPRESSLY CONDITIONED UPON FUTURE APPROPRIATIONS BY THE BOARD OF COUNTY COMMISSIONERS TO FUND ITS PROVISIONS, TO THE EXTENT THAT PERFORMANCE AND PAYMENT EXTENDS IN TO THE FISCAL YEAR SUBSEQUENT TO THE YEAR OF AWARD.</p>					TOTAL:	PAGE 4
<p>****END**** BUYER JT JAN M THOMPSON</p>						

Item #1 One (1) new current standard model of production Emulsion Heating Kettle.

GENERAL PROVISIONS

GENERAL DESCRIPTION

The unit shall be completed and operational upon delivery. Any component normally offered as standard equipment, or recommended by the manufacturer for the intended use shall meet all applicable laws including Federal O.S.H.A. and Oregon O.S.E.A. Regulations. Any component required to provide a complete, operational and safe unit shall be provided even if it is not specifically specified. Failure to comply with any of these specifications may result in the rejection of the bid.

The apparent silence of this specification and supplemental specifications as to any detail, or the apparent omission from it of a detailed description concerning any point, shall be regarded as meaning that only best commercial practice is to prevail and that only materials and workmanship of first quality are to be used.

Units shall be new (unused), current model of production, and shall be completely prepared for customer delivery through service by a factory franchised dealer prior to delivery. A new unit predelivery inspection and service sheet, properly completed and signed by the service manager of the seller, shall be furnished with each unit. Each unit shall include all inspection coupons, certicards or warranty identification cards furnished to the trade in general in accordance with standard warranty policy.

SPECIFICATIONS

Complete specifications for units will be supplied with the bid.

PARTS & SERVICE

The successful bidder shall have available and shall provide same-day delivery to the Yeon Shops for normal repair parts. Service and warranty repair service shall be available in the greater Portland area. Failure to prove the ability to provide these availability requirements to Multnomah County's Fleet Administrator's satisfaction may result in the rejection of the bid by Multnomah County.

TRAINING

The successful bidder shall provide to Multnomah County, at no additional cost, all training necessary for the safe and efficient operation and maintaining of the unit by Multnomah County personnel.

DELIVERY

The delivery of the unit shall be in a ready-for-operation condition to Multnomah County's Yeon Shops, 1620 S.E. 190th Avenue, Portland, Oregon, 97233, within ninety (90) days from the awarding of the contract. Proof of ability to meet the delivery schedule may be considered in the awarding of the contract.

APPROVED EQUAL

When a specific brand name or model number is specified and approved equal is offered as an alternative, no limitation on other brand names is intended. This is intended to indicate and guarantee a quality level. The alternate must be approved in writing by the Multnomah County Director of Fleet & Electronic Services.

LUBRICANTS

Bidders shall provide Multnomah County with S.A.E. specifications for all lubricants or interchange to lubricants currently used in Multnomah County.

MANUALS

Two operator's manuals, two parts manuals, and two shop repair manuals shall be supplied.

NOTE: Four Hundred Dollars (\$400.00) of contract amount shall be withheld from payment until all manuals are delivered.

WARRANTY

- a. A submission of a bid in response to this invitation shall constitute the manufacturer's and bidder's warranty of the unit offered, including all parts and accessories, for a period of at least three years or 1,000 hours, whichever comes first after the "in-service date". "In-service date" is defined as the day that the unit is put into regular service after installation. Each unit and major component shall carry the manufacturer's normal service and normal warranty policy in conjunction with purchaser's stated warranty and shall include all inspection coupons, certicards or warranty identification cards — furnished to the general trade. Said warranty shall be honored by all franchised dealers of that make in the State of Oregon.

- b. If all or any part of this equipment shall prove defective in workmanship or materials, the manufacturer shall replace or repair the part or defect without cost to Multnomah County.
- c. The warranty shall exclude such components as tires, batteries and light bulbs, except as warranted by the manufacturer of said items. It shall also exclude damage to the unit due to operator's abuse.
- d. In an emergency, if the vendor is unable to furnish a serviceman and parts to the job site within 72-hours, the County may elect to have emergency repairs made and hold the damaged parts for the vendor's inspection, together with sufficient documents to justify or verify the repairs, and the vendor shall reimburse the County for all costs therein.
- e. Warranty adjustments will not necessarily be confined to the above limits. Malfunction of parts or failure discovered beyond the above warranty, which are reasonably attributable to a manufacturing fault not revealed during the initial period, shall be corrected at no cost, or on a cost-sharing basis, depending on the individual case.
- f. The vendor shall not be responsible for damages caused by delay or failure to perform under the terms of the warranty where such delay or failure is due to fire, strikes, Acts of God, legal acts of public authority or demands of the Government in time of war or national emergency.
- g. The bidder shall be responsible for all warranty adjustments.
- h. Any manufacturer's extended warranties available should be offered as options above the bid price.

BID REJECTION

The County has the right to reject any or all bids.

TRAILER

The trailer is to be not less than 6,000 pound capacity, single axle. The tire is to be not less than 8 x 14.5 - 12 ply rating, and tire and wheel ratings are to exceed loaded capacity of the unit. The spring capacity is to exceed axle capacity; the unit is to be equipped with: an adjustable screw type front jack leg with swivel wheel; an adjustable rear stand leg; combination tail lights and turn signals; electric brakes complete with controller; and any other equipment necessary to meet the Oregon Motor Vehicle Code. The trailer shall have an approximately seven (7) foot tall hose minder that swivels mounted near the right rear corner of the trailer.

A Pintle type trailer hitch eye with hitch height is to be approximately twenty (20) inches from the ground, and heavy duty fenders and safety chains are to be provided. Surge style brakes with a breakaway are to be supplied.

EQUIPMENT

The unit is to be equipped with a minimum of twenty-five (25) foot material spray hose and five (5) foot spray bar complete with control valve for application of materials. Not less than a twenty (20) foot hose complete with regulator and propane hand torch for heating of pavement is to be provided. Both hoses and the wand and hand torch are to be complete with means for storing while traveling that allows the hand valve to drip back into the tank. The unit is to be equipped with not less than a nine (9) gallon diesel tank for flushing of the system; diesel is to be "sucked" into system prior to the pump and flush the pump and all hoses and valves in the system; the unit is to be capable of pumping the diesel from the tank through the system or draw materials for flusing from another source. Not less than a fifty (50) gallon propane tank is to be mounted on the front end of the unit.

PAINT

The unit is to be painted the manufacturer's standard color.

DETAILED DESCRIPTIONGENERAL

The unit is to be specifically designed for the heating and application of emulsified asphalt used in the Pacific Northwest such as "CRS-2", or equal. The unit is to be complete and any component not specified that is necessary to provide a complete unit or is normally offered to the public as standard equipment shall be furnished.

CAPACITY

Not less than 300 gallons, or not to exceed 325 gallons.

ENGINE

The unit is to be powered by not less than a five (5) horsepower engine, using propane as fuel. The engine is to drive the product pump directly, and shall have a reduction of approximately six (6) to one (1).

PUMP

The pump shall be specifically designed for pumping of emulsified asphalts. The pump is to be enclosed in the tank to enable it to be heated by the material. The pump is to be a rotary gear type, be gear driven, and have a capacity of not less than thirty (30) gallons per minute. The pump system is to be of the recirculating type, and the system is to be equipped with an adjustable pressure relief valve.

TANK

The tank is to be constructed of not less than twelve (12) gauge material and is to be equipped with not less than a ten (10) inch fill lid. The heating of material is to be by propane through a double fire tube heating system, complete with automatic gas controlled burners. All necessary burners, valves, gauges, regulators, hose and are to be provided. The tank is to be equipped with a drain plug or other means for draining. The tank shall have a spigot located on the rear of the right hand side near the bottom that will be used for filling a sixteen (16) inch tall can. The tank shall be equipped so that the stored hand wand will drip back into the tank.

Meeting Date 5/30/89
Agenda No. # 2 juv

REQUEST FOR PLACEMENT ON THE AGENDA

Subject: National Accreditation for Donald E. Long Home

Informal Only* May 30, 1989 Formal Only _____
(Date) (Date)

DEPARTMENT Human Services DIVISION Juvenile Justice

CONTACT Hal Ogburn TELEPHONE x3470

*NAME(S) OF PERSON MAKING PRESENTATION TO BOARD Duane Zussy/Hal Ogburn

BRIEF SUMMARY Should include other alternatives explored, if applicable, and clear statement of rationale for the action requested.

The Department of Human Services recommends that the Board authorize the department to pursue American Correctional Association Accreditation of the Donald E. Long Home. To achieve accreditation an institution must meet detailed standards which seek to insure that juvenile justice programs are humane, protect individual rights of juveniles and operate efficiently and effectively. The Department proposes creation of an Accreditation Project Manager in JJD by reallocating moneys currently in DHS' approved budget for FY89-90.

(IF ADDITIONAL SPACE IS NEEDED, PLEASE USE REVERSE SIDE)

ACTION REQUESTED:

INFORMATION ONLY PRELIMINARY APPROVAL POLICY DIRECTION APPROVAL

INDICATE THE ESTIMATED TIME NEEDED ON AGENDA 15 minutes

IMPACT:

PERSONNEL

FISCAL/BUDGETARY

General Fund

Other _____

1989 MAY 23 PM 1:40
MULTIPLER COUNTY
OREGON
Office of
COUNTY COMMISSIONER

SIGNATURES:

DEPARTMENT HEAD, ELECTED OFFICIAL, or COUNTY COMMISSIONER: Duane Zussy (PC)

BUDGET / PERSONNEL /

COUNTY COUNSEL (Ordinances, Resolutions, Agreements, Contracts) _____

OTHER _____
(Purchasing, Facilities Management, etc.)

NOTE: If requesting unanimous consent, state situation requiring emergency action on back.



MULTNOMAH COUNTY OREGON

DEPARTMENT OF HUMAN SERVICES
7th FLOOR J. K. GILL BUILDING
426 S.W. STARK STREET
PORTLAND, OREGON 97204
(503) 248-3782

BOARD OF COUNTY COMMISSIONERS
GLADYS McCOY • CHAIR OF THE BOARD
PAULINE ANDERSON • DISTRICT 1 COMMISSIONER
GRETCHEN KAFOURY • DISTRICT 2 COMMISSIONER
RICK BAUMAN • DISTRICT 3 COMMISSIONER
POLLY CASTERLINE • DISTRICT 4 COMMISSIONER

MEMORANDUM

TO: Gladys McCoy, Multnomah County Chair

FROM: Duane Zussy, Director *Duane Zussy*
Department of Human Services

DATE: May 12, 1989

SUBJECT: National Accreditation for the Donald E. Long Home

RECOMMENDATION:

The Department of Human Services and the Juvenile Justice Division recommend that the Board authorize the department to pursue American Correctional Association Accreditation of the Donald E. Long Home. To accomplish this objective, I propose the creation of an Accreditation Project Manager within the Juvenile Justice Division by reallocating moneys currently included within DHS' approved budget for 1989-90.

ANALYSIS:

The American Correctional Association, in conjunction with the Commission on Accreditation for Corrections and the National Institute of Corrections, publishes detailed standards for juvenile detention facilities.

The standards which must be met in order to achieve accreditation offer administrators of juvenile facilities the means with which to ensure that juvenile justice programs are humane, protect the individual rights of juveniles, and operate efficiently and effectively.

These standards deal with such matters as safety, physical plant, sanitation and hygiene, medical and health care, food services, and rules and discipline. The standards reflect the desire of corrections' professionals to improve corrections practice in accordance with nationally recognized and respected bench marks. Compliance is a large project and may require substantial change in traditional operating procedures. It is the stated position of the Commission on Accreditation that, consistent with public safety, the least restrictive environment should be imposed when determining the detention of a juvenile.

Memo to Gladys McCoy
May 4, 1989
Page 2

Oftentimes, it is not possible to achieve accreditation for a complete facility. For example, we are relatively certain that the Donald E. Long Home cannot meet the physical plant standards for accreditation without extensive renovation and may never fully meet accreditation standards. As an alternative and/or an intermediate goal, we can seek to achieve "certification" for specific portions of a facility, such as the medical and health care service or the food service components.

At this time, the cost of total accreditation or certification of various program components is unknown. The department, therefore, recommends that you and the Board approve, subject to cost consideration, a policy of pursuing certification of as many elements of the Donald E. Long facility and program of operations as may be feasible as intermediate steps toward the ultimate goal of achieving complete accreditation.

Pursuing accreditation will require a substantial time commitment on the part of current JJD staff as well as the identification of new resources. Resources needed include one FTE to act as Accreditation Project Manager as well as funds to pay the ACA accreditation fee. The Department proposes to shift resources internally to provide the funds needed for these two items. A draft budget amendment is attached.

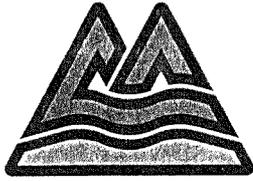
BACKGROUND:

As you know, various issues regarding the Donald E. Long Home have also been raised by members of the Juvenile Law Project, who have alleged numerous deficiencies in the operation of the facility. DHS staff has been working with County Counsel, and Board staff to review the allegations raised by the Juvenile Law Project and to explore options for revising certain of our current procedures in the Juvenile Justice Division to fully assure compliance with the spirit as well as the letter of the law. The effort to achieve accreditation, which I recommend herein, may be viewed as the most logical and appropriate extension of this process which has already been initiated. To wit, it should be noted that virtually all of the materials cited by the Juvenile Law Project as authoritative standards against which to compare our alleged practices were taken directly from the standards set forth by the American Correctional Association, the entity from whom I now propose to seek certification and, eventually, full accreditation.

Given the Board's strong interest in issues concerning youth, the goal of accreditation of the Donald E. Long facility constitutes sound public policy. This is clearly a desirable public policy in order to ensure adherence to the most humane and highest standards of professional practice within our juvenile justice system.

cc: Mindy Brown
Denise Chuckovich
Ardys Craghead
Rhea Kessler
Hal Ogburn

[1935F/vc]



MULTNOMAH COUNTY OREGON

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CAROLINE MILLER • DISTRICT 3 COMMISSIONER
POLLY CASTERLINE • DISTRICT 4 COMMISSIONER

MEMORANDUM

TO: County Chair Gladys McCoy

FROM: Duane Zussy, Director *Duane Zussy (DZ)*
Department of Human Services

DATE: May 30, 1989

SUBJECT: Technical Amendment to Fund Accreditation Project Manager Position

Recommendation: The Department of Human Services recommends that the County Chair and Board of County Commissioners approve a technical amendment which creates an Accreditation Project Manager position and budgets for first year payment of ACA accreditation fee. This is to be funded by reducing various line items within DHS and requesting \$15,000 from general fund contingency.

Analysis: In my memo to you of May 12 (attached), I recommended that the County pursue national accreditation for the Donald E. Long Home by creating an Accreditation Project Manager position in the Juvenile Justice Division. We have prepared a technical amendment (attached) to reallocate monies currently included within DHS' approved budget for FY 89-90 to cover the costs associated with the position and for accreditation fees. Unfortunately, although we have worked diligently to identify funds internally to support this activity, we find we are \$15,000 short of the total \$68,275 needed.

As I believe it to be imperative that we find a way to proceed with this activity, I am asking that the Chair and the Board consider a technical amendment moving \$15,000 from contingency to cover those costs which the department is unable to cover internally.

Your consideration of this request is sincerely appreciated.

cc: Liaison Commissioner Rick Bauman
County Commissioner Pauline Anderson
County Commissioner Gretchen Kafoury

①
PROJECT MANAGER
10/10/89
Gretchen Kafoury

BUDGET AMENDMENT NO. _____
Proposed _____

Date _____

Date Approved _____

1. PROPOSED BY _____

DEPARTMENT DHS DIVISION JJD FUND 100 BUDGET PAGES _____

2. DESCRIPTION OF AMENDMENT

This Budget Amendment creates an Accreditation Project Manager position (\$64,275), and budgets for the first year's payment of the ACA Accreditation fee (\$4,000) in the Juvenile Justice Division and funds it by reducing various line items within DHS, and requests \$15,000 from General Fund Contingency.

Juvenile Justice Division reduces: Temporary (\$5,000), Overtime (\$5,000) in Detention; Dues/Subscriptions (\$5,667) in Mgt./Support; Personal Services (\$2,985) and delays hiring a Juvenile Counselor. Director's Office reduces: Personal Services (\$11,258) and delays hiring a Comm. Information Tech.; Temporary (\$619) in the WP unit; Professional Svcs (\$6,000); Supplies (\$1,051); and, Ed & Travel (\$695). Health Services Division reduces: Personal Services (\$8,000) .25 FTE Program Development Specialist; Professional Services (\$2,000). Aging Services Division reduces: Bldg. Mgt. Services (\$5,000).

3. PERSONNEL CHANGES

JOB TITLE	FTE	BASE	FRINGE	INS	TOTAL
PROJECT MANAGER (JJD)	1.00	48,027	12,151	4,097	64,275
COMM. INFORM TECH.(DIR)	(0.40)	(8,695)	(1,425)	(1,138)	(11,258)
PROGRAM DEV SPEC (HSD)	(0.25)	(6,591)	(495)	(914)	(8,000)
JUVENILE COUNSELOR (JJD)	(0.10)	(2,239)	(567)	(179)	(2,985)
TOTAL REDUCTIONS	(0.75)	(17,525)	(2,487)	(2,231)	(22,243)
NET DIFFERENCE	0.25	30,502	9,664	1,866	42,032

4. REVENUE IMPACT (Explain revenues being changed and the reason for the change.)

Increase Service Reimbursement FROM GF TO Insurance Fund by a net of \$2,780.
Reduces Service Reimbursement FROM F/S Fund TO Insurance Fund by \$914.
Increase Service Reimbursement FROM F/S Fund (HSD) TO GF (JJD) by \$10,000.
Reduces Cash Transfer FROM GF TO F/S Fund (ASD) by \$5,000.

EFFECT ON GENERAL FUND CONTINGENCY (15,000)

FUND	AGENCY	ORGANIZATION	*REVENUE OBJECT	INCREASE (DECREASE)	NOTES
100	010	2520	5100	48,007	Permanent
			5500	12,151	Fringe
			5550	4,097	Insurance

				64,275	PS SUBTOTAL
			6100	4,000	Prof.Svcs./ACA Fees

				68,275	TOTAL
100	010	2510	5200	(5,000)	Temporary
			5300	(5,000)	Overtime

				(10,000)	PS SUBTOTAL
		2520	6620	(5,667)	Dues/Subscriptions
		2530	5100	(2,239)	Permanent
			5500	(567)	Fringe
			5550	(179)	Insurance

				(2,239)	PS SUBTOTAL

				(18,652)	TOTAL JJD
100	010	0100	5100	(8,695)	Permanent
			5200	(619)	Temporary
			5500	(1,425)	Fringe
			5550	(1,138)	Insurance

				(11,877)	PS SUBTOTAL
			6110	(6,000)	Professional Svcs
			6230	(1,051)	Supplies
			6310	(695)	Ed & Travel

				(7,746)	M & S SUBTOTAL

				(19,623)	TOTAL DIR



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POLLY CASTERLINE • DISTRICT 4 COMMISSIONER

MEMORANDUM

TO: Gladys McCoy, Multnomah County Chair

FROM: Duane Zussy, Director *Duane Zussy*
Department of Human Services

DATE: May 12, 1989

SUBJECT: National Accreditation for the Donald E. Long Home

RECOMMENDATION:

The Department of Human Services and the Juvenile Justice Division recommend that the Board authorize the department to pursue American Correctional Association Accreditation of the Donald E. Long Home. To accomplish this objective, I propose the creation of an Accreditation Project Manager within the Juvenile Justice Division by reallocating moneys currently included within DHS' approved budget for 1989-90.

ANALYSIS:

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The standards which must be met in order to achieve accreditation offer administrators of juvenile facilities the means with which to ensure that juvenile justice programs are humane, protect the individual rights of juveniles, and operate efficiently and effectively.

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Memo to Gladys McCoy
May 12, 1989
Page 2

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At this time, the cost of total accreditation or certification of various program components is unknown. The department, therefore, recommends that you and the Board approve, subject to cost consideration, a policy of pursuing certification of as many elements of the Donald E. Long facility and program of operations as may be feasible as intermediate steps toward the ultimate goal of achieving complete accreditation.

Pursuing accreditation will require a substantial time commitment on the part of current JJD staff as well as the identification of new resources. Resources needed include one full time position to act as Accreditation Project Manager as well as funds to pay the ACA accreditation fee. The Department proposes to shift resources internally to provide the funds needed for these two items. A draft budget amendment is being prepared at this time which will be available for the Board's consideration along with other "Technical Amendments" to the FY89-90 Approved Budget in June.

BACKGROUND:

As you know, various issues regarding the Donald E. Long Home have also been raised by members of the Juvenile Law Project, who have alleged numerous deficiencies in the operation of the facility. DHS staff has been working with County Counsel, and Board staff to review the allegations raised by the Juvenile Law Project and to explore options for revising certain of our current procedures in the Juvenile Justice Division to fully assure compliance with the spirit as well as the letter of the law. The effort to achieve accreditation, which I recommend herein, may be viewed as the most logical and appropriate extension of this process which has already been initiated. To wit, it should be noted that virtually all of the materials cited by the Juvenile Law Project as authoritative standards against which to compare our alleged practices were taken directly from the standards set forth by the American Correctional Association, the entity from whom I now propose to seek certification and, eventually, full accreditation.

Given the Board's strong interest in issues concerning youth, the goal of accreditation of the Donald E. Long facility constitutes sound public policy. This is clearly a desirable public policy in order to ensure adherence to the most humane and highest standards of professional practice within our juvenile justice system.

cc: Mindy Brown
Denise Chuckovich
Ardys Craghead
Rhea Kessler
Hal Ogburn

[1935F/vc]

5/22/89

Meeting Date 5/30/89
Agenda No. 13 pm

REQUEST FOR PLACEMENT ON THE AGENDA

Subject: Downsizing the State Beds for Juvenile Offenders

Informal Only* May 30, 1989
(Date)

Formal Only _____
(Date)

DEPARTMENT Human Services

DIVISION Juvenile Justice

CONTACT Maggie Gareau

TELEPHONE 248-3782

*NAME(s) OF PERSON MAKING PRESENTATION TO BOARD Duane Zussy, Harold Ogburn

BRIEF SUMMARY Should include other alternatives explored, if applicable, and clear statement of rationale for the action requested. The State's adopted budget may include funds for community treatment of juvenile offenders involved in gang activity. If so the Juvenile Justice Division would like to combine the dollars allocated for Multnomah County, with the \$640,000 available for downsizing, and develop a comprehensive plan for a County/provider operated downsizing project. At this time the Division would like to brief the Board on the status of current planning efforts, the conditions under which operating the downsizing project would be acceptable, and the steps the County will need to undertake, should these conditions be met. Should the stated conditions be met, DHS will seek Board approval for continuing with this planning (IF ADDITIONAL SPACE IS NEEDED, PLEASE USE REVERSE SIDE) effort.

ACTION REQUESTED:

- INFORMATION ONLY
- PRELIMINARY APPROVAL
- POLICY DIRECTION
- APPROVAL

INDICATE THE ESTIMATED TIME NEEDED ON AGENDA 15 minutes

IMPACT:

PERSONNEL

FISCAL/BUDGETARY

General Fund

Other _____

1989 MAY 23 11 12 31
OREGON COUNTY

SIGNATURES:

DEPARTMENT HEAD, ELECTED OFFICIAL, or COUNTY COMMISSIONER: Duane Zussy (DC)

BUDGET / PERSONNEL _____

COUNTY COUNSEL (Ordinances, Resolutions, Agreements, Contracts) _____

OTHER _____
(Purchasing, Facilities Management, etc.)

NOTE: If requesting unanimous consent, state situation requiring emergency action on back.

REQUEST FOR PLACEMENT ON THE AGENDA

Subject: Informational Briefing-Donald E. Long
Home Accreditation

Informal Only* 5/30/89
(Date)

Formal Only _____
(Date)

DEPARTMENT Dept. of Human Services DIVISION _____

CONTACT Denise Chuckovich TELEPHONE X-3782

*NAME(S) OF PERSON MAKING PRESENTATION TO BOARD _____

BRIEF SUMMARY Should include other alternatives explored, if applicable, and clear statement of rationale for the action requested.

RECEIVED
MAY 25 11 29 AM '89
COUNTY CLERK

(IF ADDITIONAL SPACE IS NEEDED, PLEASE USE REVERSE SIDE)

ACTION REQUESTED:

- INFORMATION ONLY
- PRELIMINARY APPROVAL
- POLICY DIRECTION
- APPROVAL

INDICATE THE ESTIMATED TIME NEEDED ON AGENDA _____

IMPACT:

- PERSONNEL
- FISCAL/BUDGETARY
 - General Fund
 - Other _____

*Barb
Denise is
on her way
w/ attachments
by 2pm.*

SIGNATURES:

DEPARTMENT HEAD, ELECTED OFFICIAL, or COUNTY COMMISSIONER: Gladys McCoy

BUDGET / PERSONNEL _____

COUNTY COUNSEL (Ordinances, Resolutions, Agreements, Contracts) _____

OTHER _____
(Purchasing, Facilities Management, etc.)

NOTE: If requesting unanimous consent, state situation requiring emergency action on back.