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420 COLLEGE ST SE
LACEY, WA 98503

ADDENDUM NO. 1

TO THE PLANS, SPECIFICATIONS, PROPOSAL AND CONTRACT FOR THE CITY OF LACEY

MADRONA AND WESTSIDE PH TREATMENT

LACEY CONTRACT NO. PW 2022-37

TO ALL PLAN HOLDERS:

You are hereby notified of the following changes, revisions, deletions, additions, corrections and/or clarifications to the plans, specifications, and contract documents for the *Madrona and Westside pH Treatment* project. This addendum is made part of these contract documents as though it was originally included in the Contract. The Contractor shall note the location of the Addenda Receipt Acknowledgement on Page B-4 of the Contract Proposal.

Issued this 7th day of February 2024.

I. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE PLANS

ITEM NO. 1: **Cover Sheets**

- 1) *The revisions include changes to City Official Names and signature by the Public Works Director.*
Delete the overall cover page, Schedule A cover page, and Schedule B cover page and replace with the new pages as attached.

ITEM NO. 2: **Schedule A – Sheet C-6**

- 1) *The revisions include changes to the linetype for vault sump discharge piping and revision to the note regarding replacement of the existing site paving.*
Delete Schedule A - Sheet C-6 and replace it with the new page as attached.

ITEM NO. 3: **Schedule A – Sheet C-8**

- 1) *The revisions include an addition of a note to Detail 4.*
Delete Schedule A - Sheet C-8 and replace it with the new page as attached.

ITEM NO. 4:
Schedule A – Sheet C-8A

- 1) *The revisions include changes to trench backfill notes.*
Delete Schedule A - Sheet C-8A and replace it with the new page as attached.

ITEM NO. 5:
Schedule A – Sheet C-9

- 1) *The revisions include changes to the linetype for vault sump discharge piping and 337 transmission main connection note.*
Delete Schedule A - Sheet C-9 and replace it with the new page as attached.

ITEM NO. 6:
Schedule A – Sheet C-12

- 1) *The revisions include changes to trench backfill notes.*
Delete Schedule A - Sheet C-12 and replace it with the new page as attached.

ITEM NO. 7:
Schedule A – Sheet M-1

- 1) *The revisions include changes to the valve schedule.*
Delete Schedule A - Sheet M-1 and replace it with the new page as attached.

ITEM NO. 8:
Schedule A – Sheet M-2

- 1) *The revisions include deletion of sample line valves.*
Delete Schedule A - Sheet M-2 and replace it with the new page as attached.

ITEM NO. 9:
Schedule A – Sheet M-3

- 1) *The revisions include changes to sample line valving and notes related to and split case pump vent valve.*
Delete Schedule A - Sheet M-3 and replace it with the new page as attached.

ITEM NO. 10:
Schedule A – Sheet M-13

- 1) *The revisions include changes to Detail 4.*

Delete Schedule A - Sheet M-13 and replace it with the new page as attached.

ITEM NO. 11:
Schedule A – Sheet M-15

- 1) *The revisions include addition of a note to Detail 5.*
Delete Schedule A - Sheet M-15 and replace it with the new page as attached.

ITEM NO. 12:
Schedule B – Sheet C-17

- 1) *The revisions include changes to trench backfill notes.*
Delete Schedule B - Sheet C-17 and replace it with the new page as attached.

ITEM NO. 13:
Schedule B – Sheet S-3

- 1) *The revisions include correction of the footer width scaling.*
Delete Schedule B - Sheet S-3 and replace it with the new page as attached.

ITEM NO. 14:
Schedule B – Sheet M-1

- 1) *The revisions include changes to the valve schedule.*
Delete Schedule B - Sheet M-1 and replace it with the new page as attached.

ITEM NO. 15:
Schedule B – Sheet M-2

- 1) *The revisions include changes to sample line valving.*
Delete Schedule B - Sheet M-2 and replace it with the new page as attached.

ITEM NO. 16:
Schedule B – Sheet M-3

- 1) *The revisions include changes to notes related to the trench drain size and split case pump vent valve.*
Delete Schedule B - Sheet M-3 and replace it with the new page as attached.

ITEM NO. 17:
Schedule B – Sheet M-10

- 1) *The revisions include the addition of in-line water filters.*
Delete Schedule B - Sheet M-10 and replace it with the new page as attached.

ITEM NO. 18:
Schedule B – Sheet M-11

- 1) *The revisions include the addition of in-line water filters.*
Delete Schedule B - Sheet M-11 and replace it with the new page as attached.

ITEM NO. 19:
Schedule B – Sheet M-12

- 1) *The revisions include the addition of in-line water filters.*
Delete Schedule B - Sheet M-12 and replace it with the new page as attached.

ITEM NO. 20:
Schedule B – Sheet M-14

- 1) *The revisions include changes to Detail 5.*
Delete Schedule B - Sheet M-14 and replace it with the new page as attached.

ITEM NO. 21:
Schedule B – Sheet M-17

- 1) *The revisions include changes to Detail 3.*
Delete Schedule B - Sheet M-17 and replace it with the new page as attached

II. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE SPECIFICATIONS

ITEM NO. 22:
Section B

- 1) *The revisions include changes to the quantities for Bid items A 10, A11, A34, B9, and B10.*
Delete Pages B-1 to B-2 and replace it with the new pages as attached.

ITEM NO. 23:
Section D

- 1) *Add new section 4-04 Ballast and Crushed Surfacing to read as follows:*

4-04 Ballast and Crushed Surfacing

4-04.5 Payment

(*****)

Supplement this section with the following:

The unit price for "Crushed Surfacing Base Course" and "Crushed Surfacing Top Course" shall be paid for furnishing and installing those materials as surfacing material and as sub-base for asphalt, sidewalks, and driveways. The use of Crushed Surfacing Base Course and Crushed Surfacing Top Course under structures, pads, and as trench bedding and backfill will be paid under other items.

ITEM NO. 24:
Section D

- 1) *Delete Section 7-04.5 Payment on Page D-74 and replace with the following:*

7-04.5 Payment

(*****)

Delete this section and replace with the following:

"Connection to Drainage Structure", per each.

The unit contract price for "Connection to Drainage Structure" shall be full pay for providing all labor, tools, equipment, and materials necessary to connect to an existing drainage structure. For purposes of payment, there will be no distinction made for the difficulty of connecting or the

quantity of connecting pipes or other materials needed. If no such item exists all costs shall be incidental to the project and no additional compensation shall be allowed.

" ____ Inch Diameter Storm Sewer Pipe", per linear foot.

The unit contract price per linear foot for " ____ Inch Diameter Storm Sewer Pipe", shall be full compensation for all labor, material, and equipment to furnish, place, assemble, and install storm sewer line, complete in place, including all wyes, tees, caps, plugs, special fittings, joint materials, commercial concrete, adjustment of inverts to manholes, dewatering, bypass pumping, and testing. Further, all excavation, hauling, disposal, compaction, temporary patching, imported bedding and backfill, and other required earthwork shall be included.

ITEM NO. 25:
Section D

- 1) *Delete Section 7-08.2 Materials on Page D-75 and replace with the following:*

7-08.2 Materials
(*****)

Supplement this section with the following:

Crushed Surfacing for Trench Backfill shall be in accordance with Section 9-09.9(3)
Bank Run Gravel for Trench Backfill shall be in accordance with Section 9-03.19.
Controlled Density Fill shall be in accordance with Section 2-09.3(1)E.
Imported Pipe Bedding shall be in accordance with Section 9-03.16.

ITEM NO. 26:
Section D

- 1) *Delete Section 7-08.3(3) Backfilling on Page D-76 and replace with the following:*

7-08.3(3) Backfilling
(*****)

Supplement this section with the following:

For backfilling trenches for longitudinal runs of pipe under asphalt, concrete, or structures, the Contractor shall use imported Crushed Surfacing Base Course. For backfilling trenches for longitudinal runs of pipe under landscaped areas the Contractor may use suitable native material prior to using imported crushed surfacing, bank run gravel and/or controlled density fill. All native backfill material shall be approved by the Engineer prior to placement. If the Contractor places imported material prior to approval, no compensation shall be made for the imported material. All backfill material shall be compacted and tested according to Section 2-03.3(14)D.

For transverse runs of pipe including the service lines within the roadway prism, the Contractor shall use controlled density fill unless approved otherwise by the Engineer. All native material shall be excavated, hauled and disposed of offsite. All exceptions shall be approved by the Engineer.

At the end of each workday, the Contractor shall install a lift of temporary asphalt cold mix on top of the trench backfill, flush with the existing pavement. No trench excavation shall be exposed to traffic without a temporary asphalt cold mix sealing the existing pavement surface. If approved by the Engineer, the Contractor may choose to use HMA for Pavement Repair Cl. ½" PG 64-22 for permanent pavement repair if a bid item for this work has been included in the Proposal. All costs associated with providing and removal of temporary asphalt cold mix shall be incidental to the bid item for the pipe being installed and no other compensation will be allowed.

ITEM NO. 27:
Section D

- 1) *Delete the first sentence of Section 7-08.5 Payment on Page D-80 and replace with the following.*

If no bid item for "Crushed Surfacing for Trench Backfill", "Bank Run Gravel for Trench Backfill" or "Imported Pipe Bedding" is included, any work described in these sections shall be included in the contract price for other items and no additional compensation shall be allowed.

ITEM NO. 28:
Section D

- 1) *Delete Section 7-09.5 Payment on Page D-84 and D-85 and replace with the following.*

7-09.5 Payment
(*****)

Supplement this section with the following:

The unit contract price for "Site Water Piping and Fittings" per lump sum shall be full pay for furnishing all labor, materials, tools and equipment, necessary to install the water main outside of the Treatment Facility building, vaults, and well buildings, complete in-place, including but not limited to pipe, couplings, adaptors, crosses, tees, bends, reducers, caps, plugs, restrained joint fittings, bend markers, temporary and permanent blow off assemblies, and other fittings not specifically identified on the plans. Further, all excavation, hauling and disposing of excavated material, imported bedding and backfill, backfilling, compacting, temporary patching, all other required earthwork, formed thrust blocking, testing, flushing, and disinfecting shall also be included in the unit contract price. Items not specifically identified on the plans but necessary to properly install the water main shall be considered incidental to the water main and no other compensation shall be allowed.

Temporary blow-off assembly required for temporary or permanent release of air, chlorination or flushing purposes shall be provided by the Contractor as a part of the new water main. The unit contract price for "Site Water Piping and Fittings" shall be full pay for providing all labor, tools, equipment, and materials necessary to abandon the pipe including temporary blow-off assembly.

ITEM NO. 29:
Section D

- 1) *Delete Section 8-12.4 Measurement and 8-12.5 Payment on Page D-103 and D-104 and replace with the following*

8-12.4 Measurement
(*****)

Supplement this section with the following:

“Chain Link Fence, Vinyl Coated”, will be measured per linear foot including length of fence and gates.

8-12.5 Payment
(*****)

Supplement this section with the following:

The unit price per linear foot for “Chain Link Fence, Vinyl Coated” shall be full pay for all labor, materials, and equipment to install the chain link fencing and gates in their entirety including end, corner, privacy slats, pull posts, gate posts, automatic gate operator, access equipment, concrete pads for operators and access equipment, and accessories as shown on the plans. See Plans and Technical Specifications 32 31 14 6-Foot Chain Link Fencing and Gates and 32 31 13 Cantilever Slide Gate for detailed requirements.

ITEM NO. 30:
Section D

- 1) *Add the following sentence to the end of 8-50.4 TREATMENT FACILITY on Page D-107:*

Item includes all foundation, roof, floor drain, pressure relief and sanitary drain piping, including piping outside of the building footprint to the point of connection with the existing well blow-off, storm drain, or grinder pump system as applicable.

ITEM NO. 31:
Section D

- 1) *Add the following sentence to the end of 8-50.5 VAULT STRUCTURE AND MECHANICAL on Page D-108:*

Item also includes sump discharge piping and blowoff assembly.

ITEM NO. 32:
Section E

- 1) *Delete Part 2.2 F. of Section 03 31 00 Concrete Mixtures on page 03 31 00 – 6 and replace with the following:*

- F. CONCRETE CLASS AND LOCATION: The proportions of cement, aggregate, and water for concrete shall be determined by the Contractor and subject to the requirements of this Section. Concrete shall meet the following criteria:

Property	Class A	Class B	Class C
Cement type	C150 Type 2	C150 Type 2	C150 Type 2
Max. water/cementitious ratio	0.52	0.52	0.52
Entrained air	Yes	Yes	No
Compressive strength at 28 days	4,000 psi	4,000 psi	4,000 psi

Class	Location
A	Footings
B	Walls and Exterior Slabs
C	Slab-on-Grade (Interior Only)

ITEM NO. 33:
Section E

- 1) *The revisions include the addition of a specification section for aluminum windows.*

Add the attached Section 08 51 13 Aluminum Windows to the Section E specifications.
Revise the Section E Supplemental Technical Specifications Table of Contents to list 08 51 13 Aluminum Windows within Division 08 - Openings

ITEM NO. 34:
Section E

- 2) *The revisions include revision to the location of Coating system 208. Delete Part 3.8 of Section 09 90 00 Painting and Coating on page 09 90 00 – 17 and replace with the following:*

3.8 COATING SCHEDULE

Coating & Painting Schedule		
Coating/Paint System	Location	Comments
100	Applies to entire project.	
101	Applies to entire project.	
102	Applies to entire project.	
103	Applies to entire project.	
104	Applies to entire project.	
200 through 202	Do not apply.	
203	Applies to entire project.	
204 through 207	Do not apply.	
208	Does not apply.	
209	Does not apply.	
300	Applies to entire project.	
301	Does not apply.	

302	Applies to entire project.	
303	Applies to entire project.	
304	Applies to entire project.	
305	Does not apply.	
306	Applies to entire project.	

1. NOTES: Fusion bonded epoxy [ANSI/AWWA C213] can be substituted for coal tar epoxy. Potable water epoxy, NSF approved, shall be used for all surfaces in contact with potable water.

ITEM NO. 35:
Section E

- 1) *Delete Part 2.2 C.1. c. & d. of Section 22 00 00 Plumbing page 22 00 00 – 3 and replace with the following:*

- c. Frame Width: 8 inches or 10.25 inches, for 6-inch and 8-inch trench drains respectively
- d. Inside Diameter: 6 inches or 8 inches, as indicated on the drawings

ITEM NO. 36:
Section E

- 1) *The revisions include revision to conduit type for beneath slab on grade for consistency with other parts of the specification section. Delete Part 3.1 A. of Section 26 05 33 Raceways, Boxes, & Fittings on page 26 05 33 – 6 and replace with the following:*

- A. Table A specifies the type of raceway required for each location and application. Unscheduled conduit, (i.e. lighting, convenience outlets, etc.), not shown on the drawings shall be in accordance with Table A below.

Table A

Location	Application/Condition	RACESPEC
Indoor Dry	Exposed	GRS
Indoor Wet	Exposed	PGRS
Outdoor	Exposed	PGRS
Concealed	Power circuits embedded in concrete structure or beneath slab-on-grade	PGRS
Concealed	Instrumentation, communications and data signals encased in concrete, duct bank	PGRS
Underground	Power circuits encased in concrete, duct bank	PVC4
Underground	Power circuits directly buried	PVC4
Underground	Instrumentation, communications and data signals directly buried	PVC4
Nonhazardous	Final connection to equipment and light fixtures	LFS

Hazardous corrosive	Exposed	PGRS
Architecturally finished areas	Final connection to light fixtures	FLEX

ITEM NO. 37:
Section E

1) Add the following new Part 2.20 and Part 2.21 to Section 40 05 13 Common Work Results for Process Piping:

2.20 IN LINE WATER FILTER HOUSINGS

A. Manufacturer

1. Pentair

a. Pentek Big Clear Heavy Duty Series, 20-inch length

1) Part # 166201

B. Materials

1. Cap – polypropylene

2. Housing – Styrene acrylonitrile, clear

3. O-Ring – Buna-N

4. Pressure Relief Button Assembly – 300 series stainless steel, EPDM, ad polypropylene

C. Inlet and outlet ports – 1-inch NPT

2.21 EXPANSION JOINT REDUCERS

A. Products

1. Reducing type rubber connector shall be as manufactured by the Metraflex Co. Chicago, IL, or approved equal.

2. Rubber spherical connector cover shall be of Butyl construction.

3. Rubber spool connector shall be reinforced with Nylon cord with steel bands.

4. Flanges shall be integral with the body, with ASTM A 36 carbon steel baking rings.
 - a. Flanges shall have 150 lb. drilling.
5. Options.
 - a. Control units must be furnished in unanchored applications, or as recommended by the manufacturer.
- B. When used as expansion joints, spherical rubber joints shall be anchored and guided in accordance with Expansion Joint Manufacturers Association recommendations

ITEM NO. 38:
Section E

1) *Delete Part 2.1 B of Section 40 05 13 Common Work Results for Process Piping page 40 05 13 – 6 and replace with the following:*

- B. Unless specified otherwise or indicated differently in the Drawings, all piping systems and process piping materials shall be as listed in the table below or as shown on the Drawings:

Service	Installation	Material
Storm Drain	All	Refer to Section 7-04 of City of Lacey Section D and WSDOT Standard Specifications
Sanitary Sewer	Buried	Refer to Section 7-17 of City of Lacey Section D
Water	Exposed ≥ 4"	Class 53 Ductile Iron or Heavy Wall Welded Steel, linings and coatings as noted below
	Submerged/ Buried ≥ 4"	Class 52 Ductile Iron and as specified in Section 7-09 of the City of Lacey Section D
	Submerged/ Buried < 4"	Stainless Steel - Type 316 Schedule 40 Threaded - ASTM A 312 Fittings Welded or Threaded
	Exposed < 4"	Brass - ASTM B 43, Fittings - Bronze - ASTM B 62 Threaded - ANSI/ASME B 16.15
	Buried < 4"	Copper Tubing - ASTM B88 Type K Soft / Fittings - Wrought Copper - ANSI B16.22, Joints-Soldered
Sample	Exposed	Solvent Welded Schedule 80 PVC
Sodium Hypochlorite	All	Solvent Welded Schedule 80 CPVC
Vent, Plumbing and Drainage	Exposed	Schedule 40 PVC
Vent, Plumbing and Drainage	Buried	Cast Iron, No Hub
Air Supply / Vent, Aeration Unit	All	Schedule 80 PVC
Vent, Hypochlorite	All	Schedule 80 CPVC

Carrier	All	Schedule 80 PVC, all bends long radius sweeps
Miscellaneous Pipelines		As shown in the Drawings

ITEM NO. 39:

Section E

- 1) *The revisions include addition of larger diameter double check valves to the section. Add the following new Part 1.1 B.2. to Section 40 05 23.24 Check Valves:*
- 2) Double check valve assemblies, 4-inch diameter and larger

ITEM NO. 40:

Section E

- 1) *The revisions include addition of larger diameter double check valves to the section. Add the following new Part 2.2. to Section 40 05 23.24 Check Valves:*

2.2 DOUBLE CHECK VALVE ASSEMBLIES, 4-INCH DIAMETER AND LARGER

A. Description

1. Meeting the requirements of AWWA C510 and approved by DOH for cross connection control.
2. Working Pressure: 150 psi
3. Modular check assemblies with center stem guiding.
4. Each check module shall have a captured spring and be accessible through a bolted cover plate.
5. Seals shall be replaceable without special tools.
6. Includes ball valve test cocks and replaceable stainless steel seats.

B. Finishes:

1. Epoxy lining and coating conforming to AWWA C210.
2. For potable water service, epoxy lining and coating shall meet be provided with NSF 61 certification.

C. Manufacturer:

1. Watts LF709
2. Approved equal

ITEM NO. 41:

Section E

- 1) *The revisions include revision to valve features. Delete Part 2.2 C.3. of Section 40 05 23.73 Control Valves Valves page 40 05 23.73– 6 and replace with the following:*

3. Main valve shall open upon loss of power.

ITEM NO. 42:

Section E

- 1) *The revisions include revision to valve features. Delete Part 2.2 D.4. of Section 40 05 23.73 Control Valves Valves page 40 05 23.73– 6 and replace with the following:*

4. Solenoid manual actuator.

ITEM NO. 43:

Section E

- 1) *The revisions include revision to valve features. Delete Part 2.4 E.5. and Part 2.4 E.6. of Section 40 05 23.73 Control Valves Valves page 40 05 23.73– 10 and replace with the following:*

5. Not used
6. Solenoid manual actuator

ITEM NO. 44:

Section E

- 1) *The revisions include revision to valve features. Delete Part 2.5 A.1.a.1) of Section 40 05 23.73 Control Valves Valves page 40 05 23.73– 11 and replace with the following:*

- 1) Contractor shall remove the existing pilot control, solenoids, and piloting, in accordance with Section 02 41 00 – Demolition. All existing copper pilot tubing and fittings shall be removed and replaced.

ITEM NO. 45:

Section E

- 1) *The revisions include revision to valve features. Delete Part 2.6 A.1.a.1) of Section 40 05 23.73 Control Valves Valves page 40 05 23.73– 12 and replace with the following:*

- 1) Contractor shall remove the existing pilot control, solenoids, and piloting, in accordance with Section 02 41 00 – Demolition. All existing copper pilot tubing and fittings shall be removed and replaced.

ITEM NO. 46:
Section E

- 1) *The revisions include revision to pressure rating. Delete Part 2.1 C.1. of Section 40 05 23.74 Pressure Relief Valves page 40 05 23.74– 2 and replace with the following:*

1. Valves shall be suitable for a working water pressure of 250 psig.

ITEM NO. 47:
Section E

- 1) *The revisions include revision to strainer model. Delete Part 2.1 F.1. of Section 40 05 23.74 Pressure Relief Valves pages 40 05 23.74– 2 to 40 05 23.74– 3 and replace with the following:*

1. Strainers for pilot system.
 - a. Strainer and restriction orifice.
 - b. Manufacturer:
 - i. Model X42N-2 as manufactured by Cla-Val Co., Newport Beach, CA, without exception.

ITEM NO. 48:
Section E

- 1) *The revisions include revision to section footer. Delete “40 21 52” in the footer of all pages of Section 43 21 52 Deep Well Vertical Turbine Pumps and replace with the following:*

43 21 52

ITEM NO. 49:
Section E

- 1) *The revisions include revision to hydraulic design point. Delete Part 2.1 C. of Section 43 21 52 Deep Well Vertical Turbine Pumps page 43 21 52 – 5 and replace with the following:*

- C. Performance Requirements at Full Pump Speed:

	P-S1
Minimum Shutoff Head (ft)	230'
Duty Point 1 (@ 70% BEP Flow)	445 gpm @ 177' TDH
Duty Point 2 (@ BEP Flow)	637 gpm @ 138' TDH
Duty Point 3 (@ 120% BEP Flow)	764 gpm @ 105' TDH
Duty Point 1 Efficiency (@ 70% BEP)	73.0%

Duty Point 2 Efficiency (@ BEP)	81.0%
Duty Point 3 Efficiency (@120% BEP)	76.0%
Maximum Pump Speed (rpm)	1770
Maximum Motor Size (hp)	30

ITEM NO. 50:
Section E

- 1) *The revisions include revision to bowl dimensions. Delete Part 2.1 F. of Section 43 21 52 Deep Well Vertical Turbine Pumps page 43 21 52 – 6 and replace with the following:*

F. Well and Pumping System Dimensions:

	P-S1
Impeller Diameter (inches)	7.175
Maximum Pump Bowl Diameter (inches)	9.5
Number of Stages	5
Discharge Size (inches)	6
Column Pipe Diameter (inches)	6
Existing Casing Diameter (inches)	10
Water or Oil Lubricated	Water
Minimum Line-Shaft Diameter	1.5
Pump Bowl Setting (ft bgs)	97.7
Static Water Level (ft bgs)	67

ITEM NO. 51:
Section E

- 1) *The revisions include revision to note the basis of design pump. Add Part 2.10 B to Section 43 21 52 Deep Well Vertical Turbine Pumps as follows:*

B. Basis of design pump is Integrity 9IHDL, 5 stage.

ITEM NO. 52:
Section E

- 1) *The revisions include clarification of the air stripper vessel vent flexible coupling.. Delete Part 2.1 A.1.i. of Section 46 51 15 Packaged Aeration Systems page 46 51 15 – 3 and replace with the following:*

- i. The air vent shall be piped outdoors by the installer and terminated with a 90-deg 24 mesh screened elbow. The screened elbow shall be oversized, and the stainless steel (SS) screen shall have a minimum of 65% open area. The air vent connection to the vessel shall include two flexible couplings, Fernco or approved equal.



Scott Egger, P.E.
Director of Public Works