Prepared by the
Utility Agreements and Permits Unit
(Payable)
($27,254.54)
(Actual Cost)

S.P. 6215-117 (T.H. 51)
Location: from Montreal Avenue to Ford Parkway in the City of Saint Paul
Utility Owner: Board of Water Commissioners of the City of Saint Paul
MnDOT Agreement Number 1054146

UTILITY RELOCATION AGREEMENT

This Agreement Number 1054146 (Agreement) is between the State of Minnesota (State), acting through its Commissioner of Transportation, and Board of Water Commissioners of the City of Saint Paul, including its agents, contractors, and subcontractors (Utility Owner). This Agreement describes how the parties will mitigate the effects of a State construction project on the Utility Owner.

RECITALS

The State plans to let a contract to construct State Project Number 6215-117 (Project) on Trunk Highway Number 51. The Project is located from Montreal Avenue to Ford Parkway in the City of Saint Paul.

The Utility Owner owns and operates watermains, their fixtures, and related equipment (Facilities) on TH 51. The Facilities are within the limits of the Project; said Facilities being in place prior to the construction of Trunk Highway Number 51.

On April 24, 1987, the District Court made an interpretation of Chapter 110, Special Laws of Minnesota 1885, that the City of Saint Paul has the obligation to reimburse the Utility Owner for all relocation costs whenever the City of Saint Paul makes improvements to city streets. When the State took Snelling Avenue in from the City, the State assumed the obligation to reimburse the Utility Owner for such relocations of waterworks facilities as a result of street improvements. Therefore, the cost of relocating Facilities is eligible for reimbursement to the Utility Owner. The Facilities are within the limits of the Project.

The Utility Owner must relocate the Facilities that are within the Project limits. The Utility Owner has requested reimbursement for the cost of this relocation from the State.

State law requires a written agreement between the State and the Utility Owner that describes their separate responsibilities.

AGREEMENT

I. Term/Termination

A. *Effective Date:* This Agreement is effective on the date the State obtains all signatures required by Minnesota Statutes, section 16C.05, subdivision 2.

B. *Commencement of Work:* Upon notice of Agreement approval, the Utility Owner must commence work according to the terms of the Notice and Order and prosecute the work according to a schedule the State's Project Engineer (Project Engineer) approves.

C. *Expiration Date:* This Agreement will expire on the date that all obligations, excluding the Utility Owner's ongoing maintenance obligation, have been satisfactorily fulfilled.

D. *Termination by the State:* The State may terminate this Agreement at any time, with or without cause, on 30 calendar days' written notice to the Utility Owner. Upon termination, the Utility Owner will be entitled to payment, on a pro rata basis, for satisfactorily performed services. The termination of this Agreement does not relieve the Utility Owner of its obligations under the Notice and Order.

E. *Survival of Terms:* The following articles survive the Agreement's expiration or termination: (III) Utility Owner's Ongoing Maintenance Requirements; (V) Audits; (VI) Liability, Worker Compensation Claims; Insurance; and (IX) Governing Terms.

II. Utility Owner's Duties

A. *Relocation:* The Utility Owner must:

1. Relocate its Facilities according to:

   a. The terms of the Notice and Order;
   b. All applicable codes;
   c. The directions of the Project Engineer and the State's Utilities Engineer (Utilities Engineer);
   d. The plans for the utility work, which are attached to this Agreement as Exhibit A. If any changes must be made to the plans, the Utilities Engineer must approve these changes in writing before the Utility Owner performs the work to qualify for reimbursement; and
   e. MnDOT's standard construction specifications.

2. Submit one copy of the State's Application for Utility Accommodation on Trunk Highway Right of Way, Form 2525 (Permit), including two copies of "proposed" sketches, for all Facilities within the trunk highway right of way to the Utilities Engineer before beginning relocation work.

3. Coordinate its operations with the State's contractor's (Contractor) operations and notify the Project Engineer at least two days before beginning and after completing each operational phase.

4. Stake the location and elevation of the proposed Facilities within the trunk highway right of way. The Utility Owner must not begin construction until the Project Engineer approves the location and elevation.

5. According to the project schedule the Utility Owner will perform its work concurrently with that of the Contractor and coordinate with the Contractor to ensure that all work is completed to the State's satisfaction without delays.

6. Maintain accurate and up-to-date relocation cost records throughout the course of the Project.

7. Leave materials in place at the Project Engineer's discretion. Any materials left within the right of way after the Utility Owner completes its work will become the property of the Contractor.

B. *Compliance with Safety Regulations*

1. The Utility Owner must comply with the safety regulations contained in Minnesota Rules, part 8810.3400, subpart 5, during all construction and maintenance operations. The Utility Owner will furnish and require each flagger to carry a copy of the current edition of the State's *Field Manual*, which is Part IV of the *Minnesota Manual of Uniform Traffic Control Devices*. The Utility Owner must furnish each flagger with the required vest, hat, hand sign, flags, and any other necessary safety equipment.

2. The provisions of this Agreement do not relieve the Utility Owner of any legal responsibility or liability associated with the construction, operations, or maintenance of its Facilities.

C. *Compliance with Pollution Control Requirements*

1. The Contractor installs pollution control measures according to the National Pollution Discharge Elimination System permit (NPDES Permit). Pollution control measures include silt fences, slope stabilization measures such as seed and mulch, and any other measures the State deems necessary to comply with the NPDES Permit. If the Utility Owner's work affects such pollution control measures, the Utility Owner must restore them to their original condition and to the Project Engineer's satisfaction. If the Utility Owner is relocating Facilities before the Contractor begins construction, the Utility Owner must work with the Project Engineer to determine if pollution control measures are necessary and how to implement them if they are.

III. Utility Owner's Ongoing Maintenance Requirements

A. Once construction is complete, the Utility Owner must maintain the Facilities at its own expense. The Utility Owner must follow the terms of the Permit when it performs any maintenance work.

B. The Utility Owner may open and disturb the trunk highway right of way without a permit in the case of an emergency that is dangerous to the public and requires immediate attention. Upon learning of an emergency, the Utility Owner must immediately notify the State Patrol. The Utility Owner must take all necessary and reasonable safety measures to protect the public and must cooperate fully with the State Patrol. In this event, the Utility Owner must request a permit from the proper authority no later than the working date after it begins working in the right of way.

IV. Payment

A. *Payment*

1. Exhibit B, which is attached to this Agreement, is a detailed, itemized estimate of the cost of the Utility Owner's relocation work. Actual cost includes all expenses attributable to design engineering and construction relocation work. Reimbursement will be based on the actual costs for work that conforms to Exhibit A. Betterment, increase in value, and salvage value derived from the relocated Facilities will not be included in this reimbursement.

2. The State will pay the Utility Owner for the actual cost the Utility Owner incurs performing its obligations pursuant to this Agreement, in an amount not to exceed $27,254.54, upon receiving:

   a. Proof that the Facilities have been relocated to the Project Engineer's and Utilities Engineer's satisfaction; and

b. One original, signed invoice that is supported by an itemized statement of costs. An authorized representative of the Utility Owner must sign the invoice and submit the final bill to the Utilities Engineer no later than 90 days after completing the work.

3. The State's payment constitutes payment in full for all work the Utility Owner performs and for any and all damages, claims, or causes of action of any kind accruing to the Utility Owner because of the State's order to relocate the Facilities. Notwithstanding anything in this Agreement to the contrary, the Utility Owner reserves the right to pursue any lawful remedy it may have for tortious acts that may arise out of the relocation of the Facilities.

4. If acceptable to the Utilities Engineer, the State may process periodic progress billings of incurred cost without prior audit.

B. *Limitation on Payment*

1. The total amount the State is required to pay is limited to the amount shown in Article IV.A.2.

2. If the Utility Owner deems it necessary to perform additional work not covered by this Agreement, or anticipates costs exceeding the amount in Article IV.A.2., then the Utility Owner must promptly notify the Utilities Engineer, in writing, of the nature and cause of the additional work or costs prior to performing or incurring them. Notification must include the amount of additional State funds requested and reason(s) supporting the request. The Utilities Engineer may approve the request subject to the availability and encumbrance of funds. If the Utility Owner performs additional work for which the State has not previously encumbered funds, the State is not obligated to pay for that additional work.

3. If the amount the Utility Owner requests under Article IV.B.2. does not exceed 10 percent of the amount in Article IV.A.2., the State may authorize payment of that pre-approved additional amount without amending this Agreement. The Utility Owner must receive notification from the State that the State has approved the additional work and encumbered the additional funds before beginning the additional work, or that work will be ineligible for reimbursement.

4. If the amount the Utility Owner requests exceeds 10 percent of the amount shown in Article IV.A.2., this Agreement must be amended to reflect the new cost before the State will be responsible for paying that additional cost.

V. Audits

A. The Utility Owner's costs to relocate its Facilities according to this Agreement and the costs for any additions or alterations to these Facilities are subject to the State and federal government's examination and audit. Pursuant to Minnesota Statutes, section 16C.05, subdivision 5, the Utility Owner's accounting books, records, documents, procedures, and practices that are relevant to this Agreement are subject to Legislative or State Audit for six years after this Agreement expires.

B. The Utility Owner must respond to requests for audit information to support claimed costs no later than 60 days after receiving the request or the State will cite all costs in question. If the Utility Owner does not respond during this 60-day period, the State will consider the audit citations accepted and will make payment accordingly.

VI. Liability; Worker Compensation Claims; Insurance

A. Each party is responsible for its own acts, omissions and the results thereof to the extent authorized by law and will not be responsible for the acts and omissions of others and the results thereof. Minnesota Statutes § 3.736 and other applicable law govern liability of the State. Minnesota Statutes Chapter 466 and other applicable law govern liability of the Utility Owner. This clause will not be construed to bar any legal remedies a party may have to fulfill its obligations under this contract.

A. The Utility Owner certifies that its workers' compensation insurance coverage complies with Minnesota Statutes, section 176.181, subdivision 2. The Utility Owner's employees and agents are not considered State employees. The State is not responsible for any claims asserted by the Utility Owner's employees, agents, subcontractors, or any third parties under the Minnesota Workers' Compensation Act.

VII. Nondiscrimination

A. The Utility Owner will comply with the United States Department of Transportation's nondiscrimination regulations. These regulations are in the current version of the Code of Federal Regulations, title 49, part 21. The Utility Owner must incorporate these regulations by reference in all contracts.

B. Minnesota Statutes, section 181.59 and any applicable local ordinances pertaining to civil rights and nondiscrimination are considered part of this Agreement.

VIII. Buy America Requirements

The Utility Owner will comply with Buy America, the requirements of which are detailed below.

A. *Buy America.* The provisions of the Build America, Buy America (BABA) Act, Public Law No.117-58 §§ 70901-70952, the Buy America law, 23 U.S.C. § 313 and 23 CFR § 635.410 are applicable to this Agreement. The Utility Owner must furnish iron and steel materials (including miscellaneous items such as fasteners, nuts, bolts, and washers) and construction materials which will be permanently incorporated on projects, funded at least partly with federal funds to be produced in the United States.

B. *Iron and Steel*. In the case of iron and steel materials, produced in the United States means that all manufactured processes from the initial melting stage through the application of coatings, occur in the United States. Foreign source materials are any domestic products taken out of the United States for any process (e.g., change of chemical content, permanent shape or size, or final finish of product).

1. Prior to performing work, the Utility Owner shall submit to the Engineer a certification stating that all iron and steel materials supplied are produced in the United States.

2. Raw materials such as iron ore, pig iron, processed, pelletized, and reduced iron ore, waste products (including scrap, iron or steel no longer useful in its present form from old automobiles, machinery, pipe, railroad rail, and steel trimmings from mills or product manufacturing) and other raw materials used in the production of iron or steel products may be imported from outside of the Unites States. Extracting, handling, or crushing the raw materials which are inherent to the transporting of these Materials for later use in the manufacturing process are exempt from the BABA Act.

C. *Construction Materials*. In the case of construction materials, produced in the United States means that the final two manufacturing processes for the construction materials occurred in the United States.

1. Construction materials include any article, material, or supply that is or consists primarily of: Non-ferrous metals, Plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), Glass (including fiber optic glass), Lumber; or Drywall.

2. Should any of the listed construction materials be combined through a manufacturing process with a second listed material or with a non-listed item, then BABA Act does not apply to those items unless the construction material is combined with iron or steel. If the construction material is combined with iron or steel, the iron and steel material provisions apply.

3. The BABA Act does not apply to: cement, cementitious materials, aggregates such as stone, sand, or gravel, aggregate binding agents or additives, or asphalt.

D. *Certificate of Compliance*. The Utility Owner is required to submit a Certificate of Compliance prior to incorporating any materials into the Project containing iron or steel, or construction materials. This shall be accomplished by the Utility Owner submitting the appropriate Certificate of Compliance to the State when the materials are delivered to the project site. The Certifications of Compliance for iron and steel will certify the materials are considered produced in the United States. The Certifications of Compliance for construction materials will certify that the final two manufacturing processes for the construction materials occurred in the United States. The certificate must be signed and dated by the Utility Owner's authorized representative, include a BABA Act submittal number, and a statement: The materials herein referenced are produced in the United States and comply with the requirements of 23 CFR § 635.410, and Public Law No.117-58 §§ 70901-70952, and 23 U.S.C. § 31.

E. *Documentation*. Supporting documentation to demonstrate compliance with BABA Act provisions (such as mill test reports, manufacturer/supplier certifications, etc.) shall be organized and maintained by the Utility Owner from the date of delivery until six years after substantial completion of the Project.

1. The State may review the Utility Owner's supporting documentation to verify compliance with the BABA Act provisions at any time upon request. The burden of proof to meet the BABA Act provisions rest with the Utility Owner. If the supporting documentation does not demonstrate to the State that the iron or steel and construction materials identified in the Certificates of Compliance were produced in the United States, then the iron, steel, or construction materials will be considered unauthorized work and must be removed and replaced.

IX. Governing Terms

A. *Data Practices:* All parties must comply with the Minnesota Government Data Practices Act (Minnesota Statutes, chapter 13) as it applies to any data that a party to this Agreement receives, collects, stores, or disseminates under it. The Act provides civil liability for failure to comply with its requirements.

B. *Applicable Law:* Minnesota law governs the validity, interpretation, and enforcement of this Agreement. Venue for all legal proceedings arising out of this Agreement, or its breach, must be in Ramsey County, Minnesota.

C. *Waiver:* If the State fails to enforce any provision of this Agreement, that failure does not waive the provision or the State's right to subsequently enforce it.

D. *Merger:* This Agreement contains all negotiations and agreements between the State and the Utility Owner. No prior understanding regarding this Agreement, whether written or oral, may be used to bind either party.

E. *Assignment:* The Utility Owner may neither assign nor transfer any rights or obligations under this Agreement without the State's consent and a fully executed assignment agreement. To be valid, the assignment agreement must be signed and approved by the same parties who signed and approved this Agreement, or their successors in office.

F. *Amendments:* Any amendment to this Agreement must be in writing. An amendment will not be effective until the same parties who signed and approved this Agreement, or their successors in office, sign and approve the amendment.

G. *Incorporation of Exhibits:* All exhibits attached to this Agreement are incorporated into this Agreement.

The remainder of this page was left blank intentionally.

IN TESTIMONY WHEREOF, the parties have duly executed this Agreement by their duly authorized officers and caused their respective seals to be hereunto affixed.

BOARD OF WATER COMMISSIONERS OF THE CITY OF SAINT PAUL

Approved:

By: _____
Patrick Shea
General Manager
Saint Paul Regional Water Services

Date: _____

By: _____
Mara Humphrey
President

Date: _____

By: _____
Mollie Gagnelius
Secretary

Approved as to form:

By: _____
Assistant City Attorney

Date: _____

Date: _____

By: _____
John McCarthy
Director
Office of Financial Services

Date: _____

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION

State Encumbrance Verification

Individual certifies that funds have been encumbered as required by Minnesota Statutes §§ 16A.15 and 16C.05.

By: _____

Date: _____

Contract Number: _____

Order Number: _____

Department of Transportation

Recommended for Approval:

By: _____
Metro Utility Coordinator

Date: _____

Approved:

By: _____
Director, Office of Land Management

Date: _____

Department of Administration

By: _____

Date: _____

JZ

SAINT PAUL REGIONAL WATER SERVICES (SPRWS)

2024

SNELLING AVE S
WATER MAIN REPLACEMENT
SPRWS PROJECT NO. 24-00-XXX
STATE PROJ. NO. 6215-117 (TH 51)

LEGEND:

EXISTING WATER	PROPOSED WATER
WATER MAIN	WATER MAIN
CASING	
ABANDONED WATER MAIN	ABANDONED WATER MAIN
DOMESTIC SERVICE	DOMESTIC SERVICE
AUTOFIRE SERVICE	AUTOFIRE SERVICE
TEE	TEE
CROSS	CROSS
BEND	BEND
SERVICE VALVE	SERVICE VALVE
GATE VALVE	GATE VALVE
BUTTERFLY VALVE	BUTTERFLY VALVE
DIVIDING GATE VALVE	DIVIDING GATE VALVE
DIVIDING BUTTERFLY VALVE	DIVIDING BUTTERFLY VALVE
HYDRANT	HYDRANT
REDUCER	REDUCER
CAP	CAP
PLUG	PLUG
AIR VENT	AIR VENT
BLOW OFF	BLOW OFF
VERTICAL OFFSET	VERTICAL OFFSET
IN PROP MAT CP	RECONNECT SERVICE, 5 LF - TYPE K CP (1" OR EXISTING SERVICE DIAMETER IF LARGER), SIDEWALL FUSION SADDLE, CORPORATION STOP, INSTALL 5 LB (BARE WT.) ZINC ANODE
IN PROP MAT LD	
IN PROP MAT UNKNOWN	
SERVICE IS INACTIVE	ABANDON SERVICE, REMOVE STOP BOX

PLAN SHEET INDEX:

W1	TITLE SHEET
W2	STANDARD PLATES
W3-W5	PROPOSED WATER MAIN
W6	EXCAVATION AREAS

MnDOT Agreement Number 1054146
Exhibit A

General Construction Notes:

1. Water facilities shall be constructed according to the latest version of SPRWS Standards for the Installation of Water Mains.
2. All persons constructing water main shall hold a valid pipelayers certification. Acceptable certifications include the MUCA pipelayers certification, the local laborers union pipelaying courses, or approved equal.
3. Only SPRWS staff are permitted to operate valves on the existing water system.
4. All water main and water service pipe less than 12" in diameter shall have a cover of 8.0'. For larger diameters, see SPRWS Standards for the Installation of Water Mains.
5. Sidewalks, pavements, ducts and appurtenant structures shall not be undermined unless a support system or another method of protection is provided.
6. All new and existing water valve boxes within the construction area must be exposed and accessible to SPRWS at all times throughout construction.
7. All class 52 and 53 ductile iron pipe shall be zinc coated and manufactured with no asphaltic seal coating applied to the inside cement mortar lining.
8. Ductile iron pipe and fittings shall be wrapped with V-BIO enhance polyethylene encasement and taped in accordance with AWWA C105.
9. Contractor shall notify SPRWS a minimum of two weeks in advance to request a shut-off of the water system to allow sufficient time to notify and coordinate shut-off with affected customers. In general, shut-offs shall be limited to 8 hours unless otherwise authorized by the Engineer.
10. A four-sided trench box (plywood not acceptable) is required on all excavations deeper than 5 feet per SPRWS Trench Excavation Policy. Backfilling around trench box is required to prevent shifting of the box and to egress in or out of the box with use of ladder. Ladders are required inside the trench box and must extend 3 feet above the surface of the trench.
11. Contractor shall use a 6'x24' trench box when constructing water main 12" and smaller, and an 8'x24' trench box when constructing water main larger than 12". No extra compensation shall be paid for over excavating the trench beyond 1 foot on either side of the trench box, including for additional backfill material.
12. Water service re-taps are considered incidental to water main installation. Services may not be re-tapped on water main until the main has passed all testing including pressure, bacteria, and conductivity. Service retaps shall be completed per standard plate D13.
13. Lead service replacements shall be from the water main to property line or as approved by Engineer or Inspector. No exceptions shall be made for the presence of existing utilities. No additional payment will be made to the Contractor for working around existing utilities
14. When placing valves on the water system, whether located along new water main or cut into existing water main, the Contractor shall construct sufficient restraining measures such that once water pressure is applied behind the closed valve, the Contractor may safely work near it without risk of joints separating in the system and without the need for a second shut down.
15. The Contractor shall be prepared to encounter oversized cast iron pipe within the existing water system. Grinding of the existing pipe in the field to make the connection will not be allowed.
16. Contractor shall remove all foreign matter or dirt from the inside of the pipe before it is lowered into the trench and keep the pipe clean by approved means during and after laying. A cap, plug or other water tight seal shall be placed on the end of the pipe at the end of each day to prevent water or other contaminants from entering it.
17. Contractor shall use brightly colored restraining gaskets to restrain slip joint pipe. See standard plate D-11 for minimum lengths of restrained pipe required for tees, bends, and dead ends.
18. The SPRWS inspector will collect and submit samples to SPRWS lab for bacterial testing in accordance with AWWA C651 5.1.2. Water samples will be collected at hydrants or air vents as shown on the plan. Samples will be drawn at 200 foot intervals.
19. Placement of imported backfill material shall be done only as approved by the Engineer or Inspector. The Contractor will not be paid for backfill material placed without the expressed authorization of the Engineer or Inspector.
20. Connecting new water main to existing water main is considered incidental.
21. Fittings, sleeves, etc. are shown for planning purposes. Final quantities for payment shall be as measured in the field.
22. Utilities shown in the plans are utility quality level D. Utility locations shall be field verified prior to any excavation.
23. 6" & 12" cast iron mains may be oversized and will require specialty fittings.

Temporary Water Notes:

1. Temporary water systems will be provided by SPRWS for existing water services supplied by mains planned for replacement within the project corridor.
2. Contractor shall excavate and prepare pipe for SPRWS to perform tie-in of temporary water for services 1.5" or larger. Tie-in excavations shall be paid under bid item 2504 Water Utility Hole. Contractor must comply with SPRWS Trench Excavation Policy and general construction requirement note 10.
3. Excavated tie-ins will be coordinated with each customer to minimize impact to water service. Excavations may be scheduled on nights and weekends.
4. The Contractor must provide a detailed schedule at the start of the project so that temporary water can be planned accordingly. Contractor shall notify SPRWS of any temporary water needs prior to water main service outage. Two weeks notice is required in residential areas and three weeks notice is required in commercial areas.

This Sheet includes excerpts from the specifications. The specifications shall prevail if any conflicts arise.

SAINT PAUL REGIONAL WATER SERVICES
ENGINEERING DIVISION
1900 RICE STREET NORTH
SAINT PAUL, MN 55113

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 90% DRAFT
PRINTED NAME: TOM JAUQUET
DATE: 06/14/2023 REG. NO: 59970

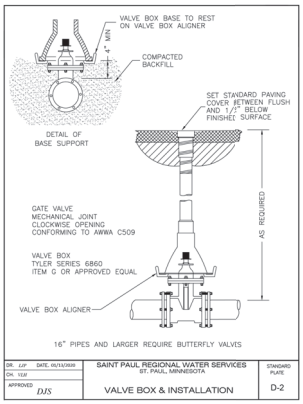
REVISIONS:

PROJ. NO. 24-00-XXX
DATE: 06/14/2023
DESIGNED: AMB
REVIEWED: TMJ

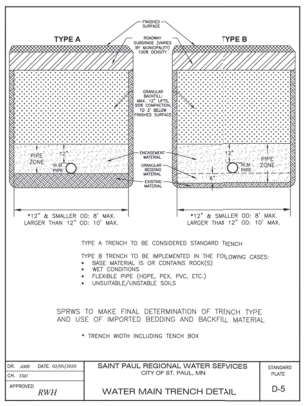
TITLE SHEET

SNELLING AVE S
STATE PROJ. NO. 6215-117 (TH 51)
2024
SAP 164-010-087

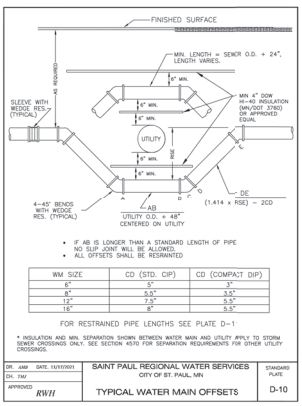
SHEET: W1 OF W6



DR. LJP DATE: 05/13/2020 CH. YLM APPROVED DJS	SAINT PAUL REGIONAL WATER SERVICES ST. PAUL, MINNESOTA VALVE BOX & INSTALLATION	STANDARD PLATE D-2



DR. AMB DATE: 03/05/2020 CH. TMJ APPROVED RWH	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN WATER MAIN TRENCH DETAIL	STANDARD PLATE D-5

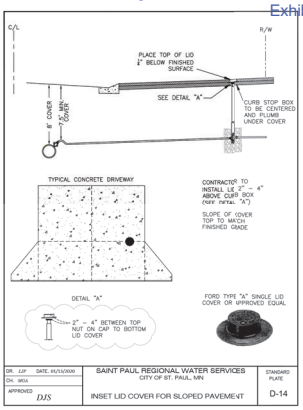


WM SIZE	CD (STD. CIP)	CD (COMPACT DIP)
6"	5"	3"
8"	5.5"	3.5"
12"	7.5"	5.5"
16"	8"	5.5"

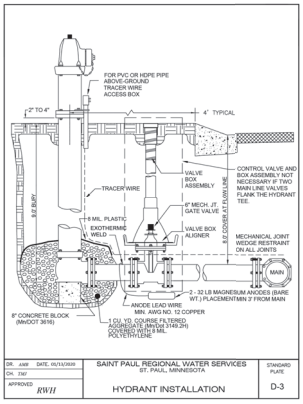
FOR RESTRAINED PIPE LENGTHS SEE PLATE D-1*

* INSULATION AND MIN. SEPARATION SHOWN BETWEEN WATER MAIN AND UTILITY APPLY TO STORM SEWER CROSSINGS ONLY. SEE SECTION 4570 FOR SEPARATION REQUIREMENTS FOR OTHER UTILITY CROSSINGS.

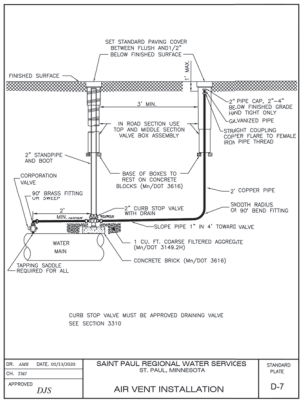
DR. AMB DATE: 11/17/2021 CH. TMJ APPROVED RWH	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN TYPICAL WATER MAIN OFFSETS	STANDARD PLATE D-10



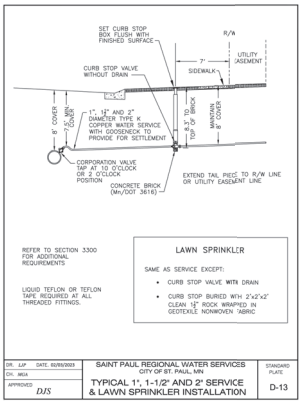
DR. LJP DATE: 01/13/2020 CH. MGA APPROVED DJS	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN INSET LID COVER FOR SLOPED PAVEMENT	STANDARD PLATE D-14



DR. AMB DATE: 05/13/2020 CH. TMT APPROVED RWH	SAINT PAUL REGIONAL WATER SERVICES ST. PAUL, MINNESOTA HYDRANT INSTALLATION	STANDARD PLATE D-3



DR. AMB DATE: 05/13/2020 CH. TMT APPROVED DJS	SAINT PAUL REGIONAL WATER SERVICES ST. PAUL, MINNESOTA AIR VENT INSTALLATION	STANDARD PLATE D-7



DR. LJP DATE: 02/05/2020 CH. MGA APPROVED DJS	SAINT PAUL REGIONAL WATER SERVICES CITY OF ST. PAUL, MN TYPICAL 1", 1-1/2" AND 2" SERVICE & LAWN SPRINKLER INSTALLATION	STANDARD PLATE D-13

ABBREVIATIONS LEGEND:

BFV	BUTTERFLY VALVE
CI, CIP	CAST IRON PIPE
CIPP	CURED-IN-PLACE PIPE
CMP	COMPRESSION
CP	COPPER
CPLD	COPPER PIPE TO STOP BOX AND LEAD PIPE TO PROPERTY LINE
CTS	COPPER TUBE SIZE
DI, DIP	DUCTILE IRON PIPE
DIPS	DUCTILE IRON PIPE SIZE
GI	GALVANIZED IRON
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
LD	LEAD PIPE
OS	OVER SIZED
PVCO	MOLECULARLY ORIENTED POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
RPL	REPLACEMENT
SDR	STANDARD DIAMETER RATIO
SSTS	STAINLESS STEEL STIFFENER
TEMP	TEMPORARY
VCP	VITRIFIED CLAY PIPE

SAINT PAUL REGIONAL WATER SERVICES

ENGINEERING DIVISION
1900 RICE STREET NORTH
SAINT PAUL, MN 55113

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: 90% DRAFT
PRINTED NAME: TOM JAUQUET
DATE: 06/14/2023 REG. NO: 59970

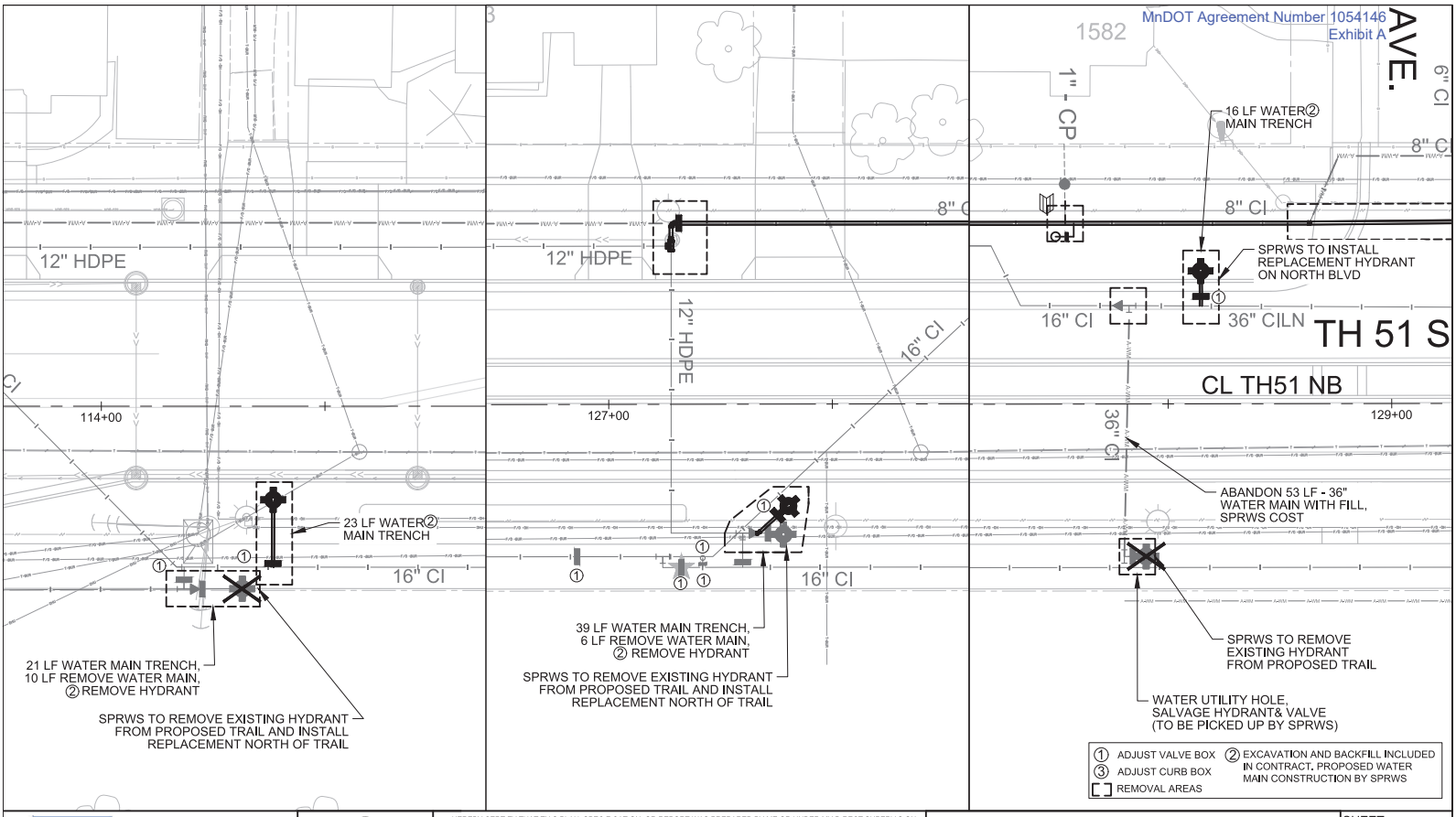
REVISIONS: _____
_____
_____
_____

PROJ. NO. 24-00-XXX
DATE: 06/14/2023
DESIGNED: AMB
REVIEWED: TMJ

STANDARD PLATES

SNELLING AVE S
STATE PROJ. NO. 6215-117 (TH 51)
2024
SAP 164-010-087

SHEET:
W2
OF W6



SAINT PAUL REGIONAL WATER SERVICES

ENGINEERING DIVISION
1900 RICE STREET NORTH
SAINT PAUL, MN 55113

0 20
HORZ. SCALE: 1" = 20'
VERTICAL SCALE: 1" = 10'

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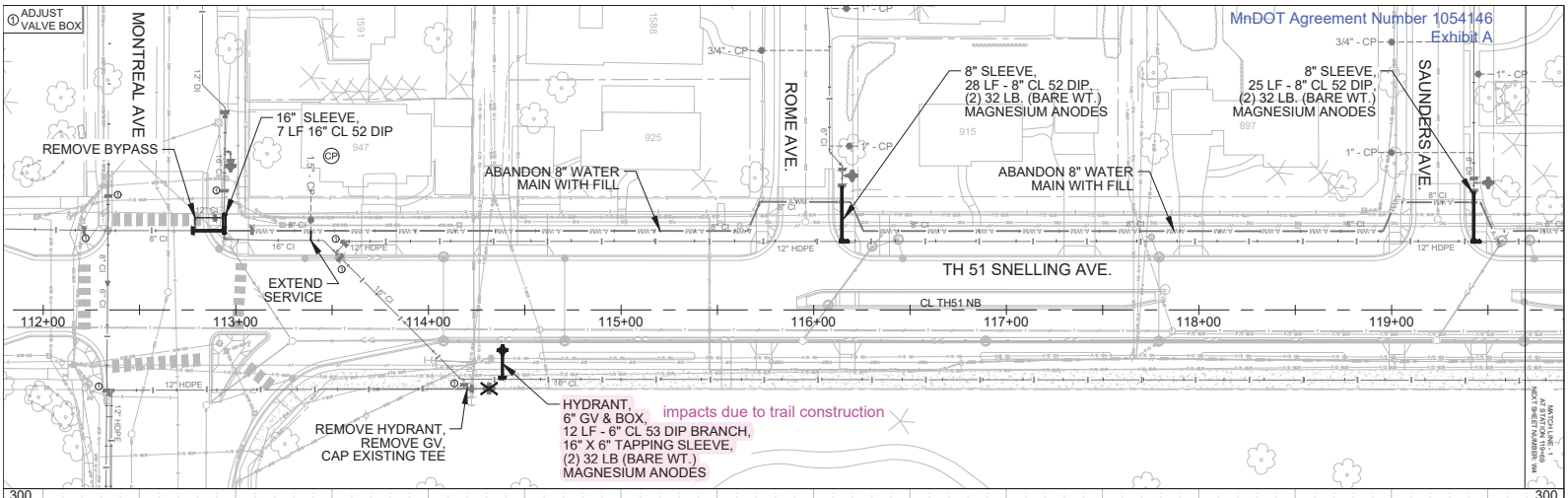
SIGNATURE:
PRINTED NAME: RICH HIBBARD
DATE: 10/20/2023 REG. NO: 49169

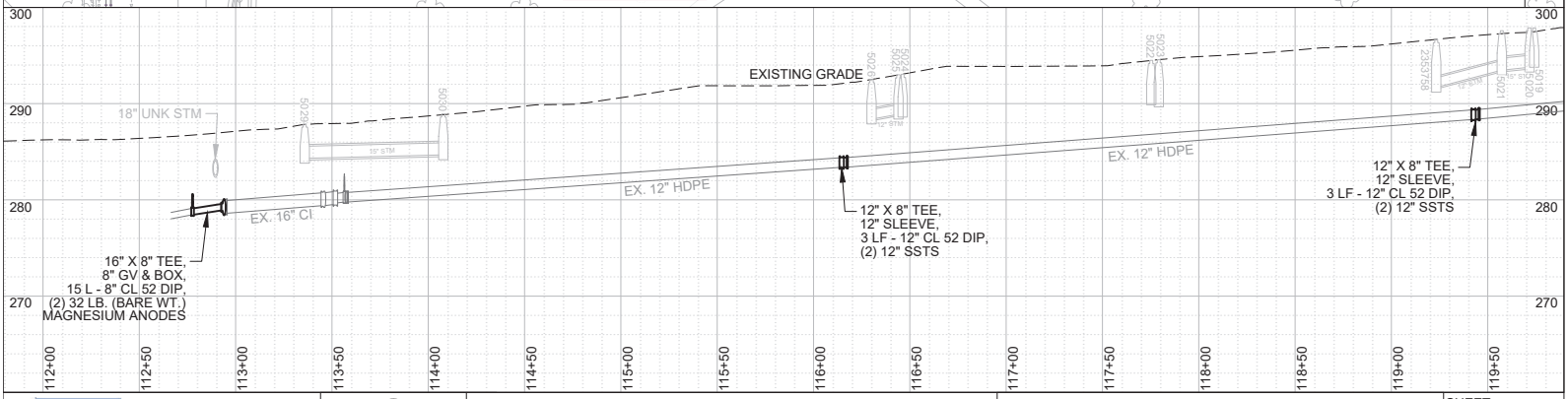
REVISIONS: 08/30/2023
PROJ. NO. 24-00-003
DATE: 10/20/2023
DESIGNED: AMB
REVIEWED: RWH

MNDOT COST HYDRANT ADJUSTMENTS

SNELLING AVE S
STATE PROJ. NO. 6215-117 (TH 51)
2024
164-010-087

SHEET:
DETAIL 1
OF 1





SAINT PAUL REGIONAL WATER SERVICES
ENGINEERING DIVISION
1900 RICE STREET NORTH
SAINT PAUL, MN 55113

HORZ. SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

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90% DRAFT

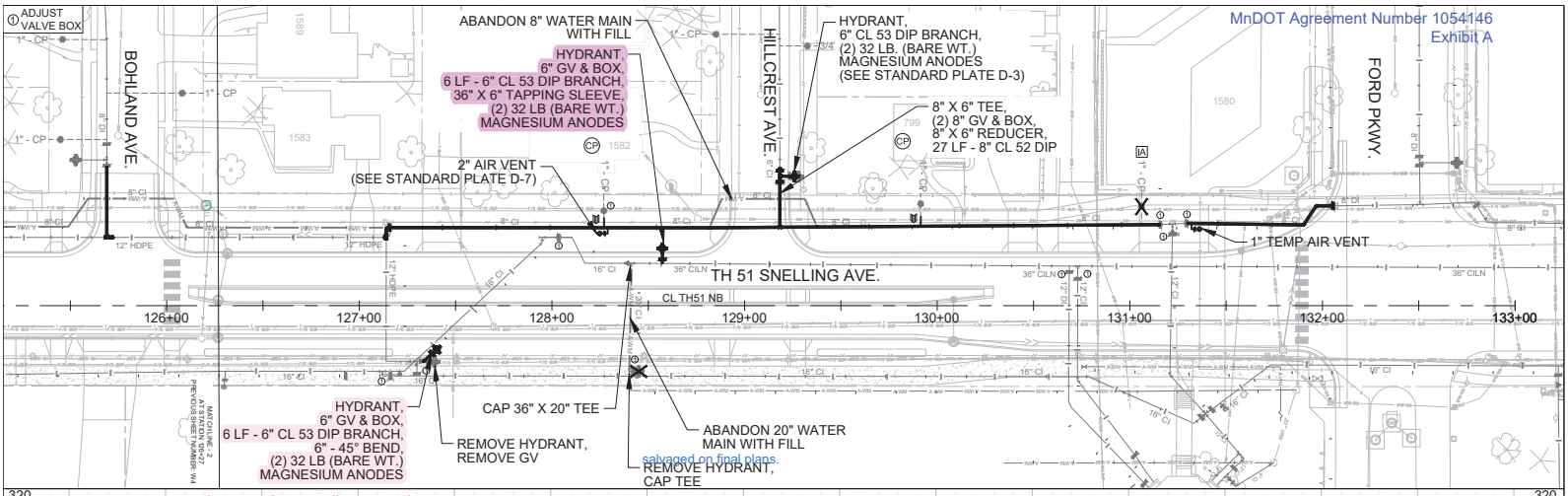
SIGNATURE:
PRINTED NAME: TOM JAUQUET
DATE: 06/14/2023 REG. NO: 59970

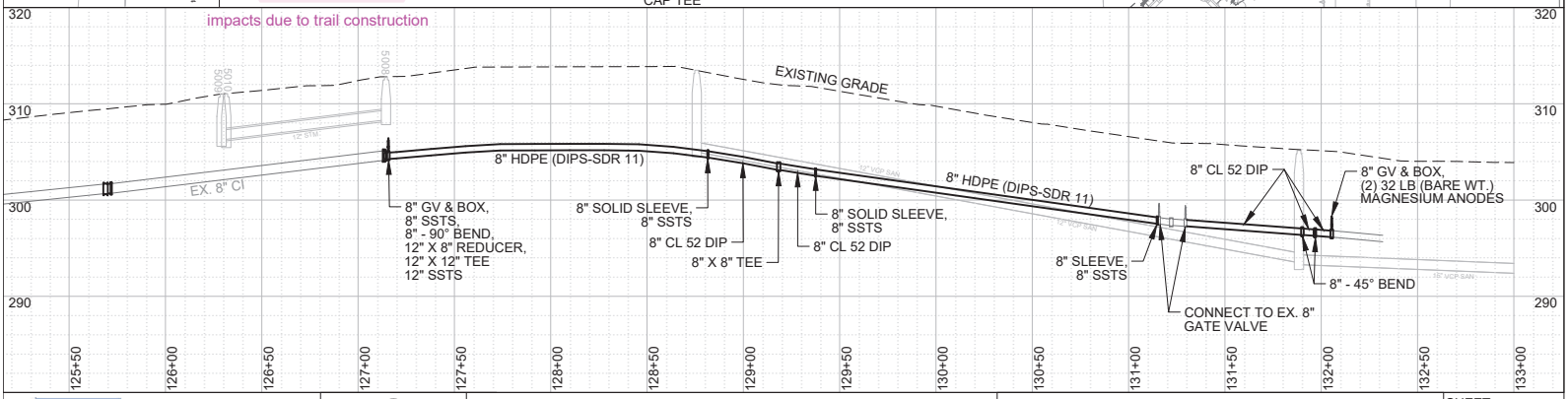
REVISIONS:
PROJ. NO. 24-00-XXX
DATE: 06/14/2023
DESIGNED: AMB
REVIEWED: TMJ

PROPOSED WATER MAIN

SNELLING AVE S
STATE PROJ. NO. 6215-117 (TH 51)
2024
164-010-087

SHEET: W3
OF W6





SAINT PAUL REGIONAL WATER SERVICES

ENGINEERING DIVISION
1900 RICE STREET NORTH
SAINT PAUL, MN 55113

0 50
HORZ. SCALE: 1" = 50'
VERTICAL SCALE: 1" = 10'

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REVISIONS:
PROJ. NO. 24-00-XXX
DATE: 06/14/2023
DESIGNED: AMB
REVIEWED: TMJ

Page 5 of 5

PROPOSED WATER MAIN

SNELLING AVE S
STATE PROJ. NO. 6215-117 (TH 51)
2024
164-010-087

SHEET:
W5
OF W6

WORK DESIGN ESTIMATE REPORT

MnDOT Agreement Number 1054146
Exhibit B

Report Select Criteria: WORK_DESIGN_NO = 2300040 PLANT = 01
Report Ordered By: PLANT

Project/Subproject: /
Work Design No: 2300040
S.P. 6215-117 (T.H. 51)
Location: from Montreal Avenue to Ford Parkway in the City of Saint Paul

DESIGN ESTIMATE SUMMARY	AMOUNT
Material	18,414.57
Labor	783.88
Equipment	334.40
Other Costs	7,721.69
Discount	0.00
Standard Price Adjustment	0.00
Subtotal	27,254.54
Contractor Amount	0.00
Subtotal with Contractor	27,254.54
State	0.00
Federal	0.00
Local	0.00
Estimated Total	27,254.54

DETAILS

Cost Type	Amount
ENGINEERING ADDITIVE	150.97
FRINGES - REGULAR TIME	333.15
MATERIAL ADDITIVES - BILLABLE	7,063.12
OVERHEAD ADDITIVE	174.45
Other Costs Total	7,721.69

Str.	Stock Type / Code	Item Description	Qty.	UOM	Unit Price	Total
WWH	I/000172	BEND MJMJ 1/4 OR 90 - 2	1.00	EA	38.63	38.63
WWH	I/000318	CONC TAPPING SADDLE-36 X 6	1.00	EA	1,327.50	1,327.50
WWH	I/000336	DI PIPE-MJ-6	3.00	EA	753.66	2,260.99
WWH	I/000440	GATE VALVE-MJRS-6	1.00	EA	1,006.78	1,006.78
WWH	I/000620	TAPPING VALVE-MJFL-6	2.00	EA	630.21	1,260.42
WWH	I/000642	MEGA LUG-6	4.00	EA	33.26	133.04
WWH	I/000870	GATE BOX POT-6	3.00	EA	87.96	263.88
WWH	I/000934	TAPPING SLEEVE-16 X 6	1.00	EA	687.00	687.00
WWH	I/001014	GATE BOX-SM-TOP SECT-26	3.00	EA	103.13	309.39
WWH	I/001019	GATE BOX-SM BOTTOM EXT #59-24	3.00	EA	70.87	212.60
WWH	I/001020	GATE BOX-SM BOTTOM EXT-36	3.00	EA	88.57	265.72
WWH	I/001061	GATE BOX-SM COVER	3.00	EA	37.09	111.27
WWH	I/001904	Magnesium Anodes	6.00	EA	336.04	2,016.22
WWH	I/002047	PACER 100 FIRE HYDRANT DS WITH STORZ FITTING	3.00	EA	2,754.87	8,264.61
WWH	I/002216	VALVE BOX ADAPTERS WATR - 6"	3.00	EA	85.50	256.51

WORK DESIGN ESTIMATE REPORT

MnDOT Agreement Number 1054146
Exhibit B

Adjustment	18,414.57
Subtotal	0.00
Material Total	18,414.57

Craft	Description	# of People	Hours	Rate	Total
194-B	B WATER UTIL MAINS SUPV	1	8	29.18	233.40
277-E	H WATER UTILITY WORKER I	1	8	22.43	179.44
297AA	H WATER UTILITY WORKER II	2	8	23.19	371.04

Subtotal	783.88
Travel	0.00
Subtotal with Travel	783.88
Adjustment	0.00
Labor Total	783.88

Equipment	Description	Qty.	Duration	UOM	Rate	Total
W_E512-16	WATER-2016 FORD F350 PICKUP #512	1.00	8	HOUR	13.60	108.80
W_E519-17	Water - 2017 CREW VAN #519	1.00	8	HOUR	17.20	137.60
W_E531-17	Water - 2017 FORD F350 PICKUP #531	1.00	8	HOUR	11.00	88.00

Subtotal	334.40
Adjustment	0.00
Equipment Total	334.40