

CONSTRUCTION SERVICES AGREEMENT

23-03797VW

Operator Relief Rooms Prefab Building Installation

This Construction Services Agreement is entered into and made effective as of the date of last signature below (the "Effective Date") by and between UTAH TRANSIT AUTHORITY, a public transit district organized under the laws of the State of Utah ("UTA"), and Cal Wadsworth L Wadsworth Construction Company LLC. ("Contractor").

RECITALS

- A. UTA desires to hire Contractor for Operator Relief Rooms Prefab Building Installation per the Specifications and Bid Schedule included in the RFP.
- B. On November 2, 2023, UTA issued Request for Proposal Package Number 23-03797VW ("RFP") encouraging interested parties to submit proposals to perform the services described in the RFP.
- C. Upon evaluation of the proposals submitted in response to the RFP, UTA selected Contractor as the preferred entity with whom to negotiate a contract to perform the Work.
- D. Contractor is qualified and willing to perform the Work as set forth in the Scope of Services.

AGREEMENT

NOW, THEREFORE, in accordance with the foregoing Recitals, which are incorporated herein by reference, and for and in consideration of the mutual covenants and agreements hereafter set forth, the mutual benefits to the parties to be derived herefrom, and for other valuable consideration, the receipt and sufficiency of which the parties acknowledge, it is hereby agreed as follows:

1. SERVICES TO BE PROVIDED

- a. Contractor shall perform all Work as set forth in the Scope of Services (Exhibit A). Except for items (if any) which this Contract specifically states will be UTA-provided, Contractor shall furnish all the labor, material and incidentals necessary for the Work.
- b. Contractor shall perform all Work under this Contract in a professional manner, using at least that standard of care, skill and judgment which can reasonably be expected from similarly situated professionals.
- c. All Work shall conform to generally accepted standards in the transit industry. Contractor shall perform all Work in compliance with applicable laws, regulations, rules, ordinances, permit

constraints and other legal requirements including, without limitation, those related to safety and environmental protection.

- d. Contractor shall furnish only qualified personnel and materials necessary for the performance of the Work.
- e. When performing Work on UTA property, Contractor shall comply with all UTA work site rules including, without limitation, those related to safety and environmental protection.

2. MANAGEMENT OF WORK

- a. Contractor's Project Manager will be the day-to-day contact person for Contractor and will be responsible for all Work, as well as the coordination of such Work with UTA.
- b. UTA's Project Manager will be the day-to-day contact person for UTA, and shall act as the liaison between UTA and Contractor with respect to the Work. UTA's Project Manager shall also coordinate any design reviews, approvals or other direction required from UTA with respect to the Work.

3. PROGRESS OF WORK

- a. Contractor shall prosecute the Work in a diligent and continuous manner and in accordance with all applicable notice to proceed, critical path schedule and guaranteed completion date requirements set forth in (or developed and agreed by the parties in accordance with) the Scope of Services.
- b. Contractor shall conduct regular meetings to update UTA's Project Manager regarding the progress of the Work including, but not limited to, any unusual conditions or critical path schedule items that could affect or delay the Work. Such meetings shall be held at intervals mutually agreed to between the parties.
- c. Contractor shall deliver monthly progress reports and provide all Contract submittals and other deliverables as specified in the Scope of Services.
- d. Any drawing or other submittal reviews to be performed by UTA in accordance with the Scope of Services are for the sole benefit of UTA, and shall not relieve Contractor of its responsibility to comply with the Contract requirements.
- e. UTA will have the right to inspect, monitor and review any Work performed by Contractor hereunder as deemed necessary by UTA to verify that such Work conforms to the Contract requirements. Any such inspection, monitoring and review performed by UTA is for the sole benefit of UTA, and shall not relieve Contractor of its responsibility to comply with the Contract requirements.
- f. UTA shall have the right to reject Work which fails to conform to the requirements of this Contract. Upon receipt of notice of rejection from UTA, Contractor shall (at its sole expense and without entitlement to equitable schedule relief) promptly re-perform, replace or re-execute the Work so as to conform to the Contract requirements.
- g. If Contractor fails to promptly remedy rejected Work as provided in Section 3.6, UTA may (without limiting or waiving any rights or remedies it may have) perform necessary corrective action using other contractors or UTA's own forces. Any costs reasonably incurred by UTA in such corrective action shall be chargeable to Contractor.

4. PERIOD OF PERFORMANCE

This Contract shall commence as of the Effective Date. This Contract shall remain in full force and effect

until all Work is completed in accordance with this Contract, as reasonably determined by UTA. Contractor shall complete all Work no later than **December 31, 2024**. This guaranteed completion date may be extended if Contractor and UTA mutually agree to an extension evidenced by a written Change Order. The rights and obligations of UTA and Contractor under this Contract shall at all times be subject to and conditioned upon the provisions of this Contract.

5. COMPENSATION

- a. For the performance of the Work, UTA shall pay Contractor in accordance with the payments provisions described in Exhibit B. Payments shall be made in accordance with the milestones, progress billing, monthly billing, or other payment provisions detailed in Exhibit B. If Exhibit B does not specify any milestones or other payment provisions, then payment shall be made upon completion of all Work and final acceptance thereof by UTA.
- b. To the extent that Exhibit B or another provision of this Contract calls for any portion of the consideration to be paid on a cost-reimbursement basis, such costs shall only be reimbursable to the extent allowed under 2 CFR Part 200 Subpart E. Compliance with federal cost principles shall apply regardless of funding source for this Contract.
- c. To the extent that Exhibit B or another provision of this Contract calls for any portion of the consideration to be paid on a time and materials or labor hour basis, then Contractor must refer to the not-to-exceed amount, maximum Contract amount, Contract budget amount or similar designation (any of these generically referred to as the “Not to Exceed Amount”) specified in Exhibit B (as applicable). Unless and until UTA has notified Contractor by written instrument designated or indicated to be a Change Order that the Not to Exceed Amount has been increased (which notice shall specify a revised Not to Exceed Amount): (i) Contractor shall not be obligated to perform services or incur costs which would cause its total compensation under this Contract to exceed the Not to Exceed Amount; and (ii) UTA shall not be obligated to make payments which would cause the total compensation paid to Contractor to exceed the Not to Exceed Amount.
- d. UTA may withhold and/or offset from payment any amounts reasonably reflecting: (i) items of Work that have been rejected by UTA in accordance with this Contract; (ii) invoiced items that are not payable under this Contract; or (iii) amounts Contractor owes to UTA under this Contract.

6. INCORPORATED DOCUMENTS

- a. The following documents hereinafter listed in chronological order, with most recent document taking precedence over any conflicting provisions contained in prior documents (where applicable), are hereby incorporated into the Contract by reference and made a part hereof:
 1. The terms and conditions of this Construction Services Agreement
 2. The Addendum 1 Supplemental Terms and Conditions for Construction Services. (including any exhibits and attachments hereto).

3. Contractor's Proposal including, without limitation, all federal certifications (as applicable);
4. UTA's RFP including, without limitation, all attached or incorporated terms, conditions, federal clauses (as applicable), drawings, plans, specifications and standards and other descriptions of the Construction Services;

b. The above-referenced documents are made as fully a part of the Contract as if hereto.

7. **ORDER OF PRECEDENCE**

The Order of Precedence for this contract is as follows:

1. UTA Contract including all terms and conditions, exhibits, and attachments.
2. Addendum 1 Supplemental Terms and Conditions for Construction Services
3. UTA Solicitation Terms
4. Contractor's Bid or Proposal including proposed terms or conditions.

Any contractor proposed term or condition which is in conflict with a UTA contract or solicitation term or condition will be deemed null and void.

8. **INVOICING PROCEDURES**

- a. Contractor shall invoice UTA after achievement of contractual milestones or delivery of all Goods and satisfactory performance of all Services or in accordance with an approved progress or periodic billing schedule. Contractor shall submit invoices to Travis Colledge, PM at tcolledge@rideuta.com for processing and payment. In order to timely process invoices, Contractor shall include the following information on each invoice:
 - i. Contractor Name
 - ii. Unique Invoice Number
 - iii. PO Number
 - iv. Invoice Date
 - v. Detailed Description of Charges
 - vi. Total Dollar Amount Due
- b. UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Software or Services. Approval by UTA shall not be unreasonably withheld. UTA shall also have the right to offset (against payments) amounts reasonably reflecting the value of any claim which UTA has against Contractor under the Contract. Payment for all invoice amounts not specifically disapproved or offset by UTA shall be provided to Contractor within thirty (30) calendar days of invoice submittal to Travis Colledge, PM at tcolledge@rideuta.com. Invoices not submitted electronically will shall be paid thirty (30) calendar days from date of receipt by UTA's accounting department.
- c. Invoices must include a unique invoice number, UTA's Purchase Order number, a description of the Good or Service provided, line-item pricing, total amount due, and must be submitted electronically to Travis Colledge, PM at tcolledge@rideuta.com.

9. OWNERSHIP OF DESIGNS, DRAWINGS, AND WORK PRODUCT

Any deliverables prepared or developed pursuant to the Contract including without limitation drawings, specifications, manuals, calculations, maps, sketches, designs, tracings, notes, reports, data, computer programs, models and samples, shall become the property of UTA when prepared, and, together with any documents or information furnished to Contractor and its employees or agents by UTA hereunder, shall be delivered to UTA upon request, and, in any event, upon termination or final acceptance of the Goods and Services. UTA shall have full rights and privileges to use and reproduce said items. To the extent that any deliverables include or incorporate preexisting intellectual property of Contractor, Contractor hereby grants UTA a fully paid, perpetual license to use such intellectual property for UTA's operation, maintenance, modification, improvement and replacement of UTA's assets. The scope of the license shall be to the fullest extent necessary to accomplish those purposes, including the right to share same with UTA's contractors, agent, officers, directors, employees, joint owners, affiliates and Contractors.

10. USE OF SUBCONTRACTORS

- a. Contractor shall give advance written notification to UTA of any proposed subcontract (not indicated in Contractor's Proposal) negotiated with respect to the Work. UTA shall have the right to approve all subcontractors, such approval not to be withheld unreasonably.
- b. No subsequent change, removal or substitution shall be made with respect to any such subcontractor without the prior written approval of UTA.
- c. Contractor shall be solely responsible for making payments to subcontractors, and such payments shall be made within thirty (30) days after Contractor receives corresponding payments from UTA.
- d. Contractor shall be responsible for and direct all Work performed by subcontractors.
- e. Contractor agrees that no subcontracts shall provide for payment on a cost-plus-percentage-of-cost basis. Contractor further agrees that all subcontracts shall comply with all applicable laws.

11. KEY PERSONNEL

Contractor shall provide the key personnel as indicated in Contractor's Proposal (or other applicable provisions of this Contract), and shall not change any of said key personnel without the express written consent of UTA.

Cal Wadsworth, President.

12. INFORMATION, RECORDS and REPORTS; AUDIT RIGHTS

Contractor shall retain all books, papers, documents, accounting records and other evidence to support any cost-based billings allowable under Exhibit B (or any other provision of this Contract). Such records shall include, without limitation, time sheets and other cost documentation related to the performance of labor services, as well as subcontracts, purchase orders, other contract documents, invoices, receipts or other documentation supporting non-labor costs. Contractor shall also retain other books and records

related to the performance, quality or management of this Contract and/or Contractor's compliance with this Contract. Records shall be retained by Contractor for a period of at least six (6) years after completion of the Work, or until any audit initiated within that six-year period has been completed (whichever is later). During this six-year period, such records shall be made available at all reasonable times for audit and inspection by UTA and other authorized auditing parties including, but not limited to, the Federal Transit Administration. Copies of requested records shall be furnished to UTA or designated audit parties upon request. Contractor agrees that it shall flow-down (as a matter of written contract) these records requirements to all subcontractors utilized in the performance of the Work at any tier.

13. FINDINGS CONFIDENTIAL

Any documents, reports, information, or other data and materials delivered or made available to or prepared or assembled by Contractor or subcontractor under this Contract are considered confidential and shall not be made available to any person, organization,

or entity by Contractor without consent in writing from UTA. If confidential information is released to any third party without UTA's written consent as described above, contractor shall notify UTA of the data breach within 10 days and provide its plan for immediate.

mitigation of the breach for review and approval by UTA.

- a. It is hereby agreed that the following information is not considered to be confidential:
 - 1. Information already in the public domain.
 - 2. Information disclosed to Contractor by a third party who is not under a confidentiality obligation.
 - 3. Information developed by or in the custody of Contractor before entering into this Contract.
 - 4. Information developed by Contractor through its work with other clients; and
 - 5. Information required to be disclosed by law or regulation including, but not limited to, subpoena, court order or administrative order.

14. PUBLIC INFORMATION.

Contractor acknowledges that the Contract and related materials (invoices, orders, etc.) will be public documents under the Utah Government Records Access and Management Act (GRAMA). Contractor's response to the solicitation for the Contract will also be a public document subject to GRAMA, except for legitimate trade secrets, so long as such trade secrets were properly designated in accordance with terms of the solicitation.

15. GENERAL INDEMNIFICATION – see Article 6 of Special Provisions

16. INSURANCE REQUIREMENTS – see Article 7 of Special Provisions

17. OTHER INDEMNITIES -see Article 6 of Special Provisions

18. INDEPENDENT CONTRACTOR

Contractor is an independent contractor and agrees that its personnel will not represent themselves as, nor claim to be, an officer or employee of UTA by reason of this Contract. Contractor is responsible to provide and pay the cost of all its employees' benefits.

19. PROHIBITED INTEREST

No member, officer, agent, or employee of UTA during his or her tenure or for one year thereafter shall have any interest, direct or indirect, including prospective employment by Contractor in this Contract or the proceeds thereof without specific written authorization by UTA.

20. CLAIMS/DISPUTE RESOLUTION - see Article 11 of Special Provisions

21. GOVERNING LAW

This Contract shall be interpreted in accordance with the substantive and procedural laws of the State of Utah. Any litigation between the parties arising out of or relating to this Contract will be conducted exclusively in federal or state courts in the State of Utah and Contractor consents to the jurisdiction of such courts.

22. ASSIGNMENT OF CONTRACT

Contractor shall not assign, sublet, sell, transfer, or otherwise dispose of any interest in this Contract without prior written approval of UTA, and any attempted transfer in violation of this restriction shall be void.

23. NONWAIVER

No failure or waiver or successive failures or waivers on the part of either party in the enforcement of any condition, covenant, or article of this Contract shall operate as a discharge of any such condition, covenant, or article nor render the same invalid, nor impair the right of either party to enforce the same in the event of any subsequent breaches by the other party.

24. NOTICES OR DEMANDS

Any formal notice or demand to be given by one party to the other shall be given in writing by one of the following methods: (i) hand delivered; (ii) deposited in the mail, properly stamped with the required postage; (iii) sent via registered or certified mail; or (iv) sent via recognized overnight courier service. All such notices shall be addressed as follows:

If to UTA:
Utah Transit Authority
ATTN: Vicki Woodward
669 West 200 South
Salt Lake City, UT 84101

with a required copy to:
Utah Transit Authority
ATTN: Legal Counsel
669 West 200 South
Salt Lake City, UT 84101

If to Contractor:

Cal Wadsworth L Wadsworth Construction Company LLC.
Cal Wadsworth, President
392 E 12300 S, Suite F
Draper, UT, 84020

- a. Any such notice shall be deemed to have been given, and shall be effective, on delivery to the notice address then applicable for the party to which the notice is directed; provided, however, that refusal to accept delivery of a notice or the inability to deliver a notice because of an address change which was not properly communicated shall not defeat or delay the giving of a notice. Either party may change the address at which such party desires to receive written notice by providing written notice of such change to any other party.
- b. Notwithstanding the above, the parties may, through mutual agreement, develop alternative communication protocols to address change notices, requests for information and similar categories of communications. Communications provided pursuant to such agreed means shall be recognized as valid notices under this Contract.

25. CONTRACT ADMINISTRATOR

UTA's Contract Administrator for this Contract is Vicki Woodward, or designee. All questions and correspondence relating to the contractual aspects of this Contract should be directed to said Contract Administrator, or designee.

26. INSURANCE COVERAGE REQUIREMENTS FOR CONTRACTOR EMPLOYEES – see Article 8 of Special Provision

27. COSTS AND ATTORNEYS FEES

If any party to this Agreement brings an action to enforce or defend its rights or obligations hereunder, the prevailing party shall be entitled to recover its costs and expenses, including mediation, arbitration, litigation, court costs and attorneys' fees, if any, incurred in connection with such suit, including on appeal

28. NO THIRD-PARTY BENEFICIARY

The parties enter into this Contract for the sole benefit of the parties, in exclusion of any third-party, and no third-party beneficiary is intended or created by the execution of this Contract.

29. FORCE MAJEURE

Neither party to the Contract will be held responsible for delay or default caused by fire, riot, acts of God and/or war which are beyond that party's reasonable control. UTA may terminate the Contract after determining such delay or default will reasonably prevent successful performance of the Contract.

30. SEVERABILITY

Any provision of this Contract prohibited or rendered unenforceable by operation of law shall be ineffective only to the extent of such prohibition or unenforceability without invalidating the remaining provisions of this Contract.

31. UTAH ANTI-BOYCOTT OF ISRAEL ACT

Contractor agrees it will not engage in a boycott of the State of Israel for the duration of this contract.

32. ENTIRE AGREEMENT

This Contract shall constitute the entire agreement and understanding of the parties with respect to the subject matter hereof, and shall supersede all offers, negotiations and other agreements with respect thereto. The terms of the Contract supersede any additional or conflicting terms or provisions that may be preprinted on Vendor’s work plans, cost estimate forms, receiving tickets, invoices, or any other related standard forms or documents of Vendor that may subsequently be used to implement, record, or invoice Goods and/or Services hereunder from time to time, even if such standard forms or documents have been signed or initialed by a representative of UTA. The terms of the Contract prevail in any dispute between the terms of the Contract and the terms printed on any such standard forms or documents, and such standard forms or documents will not be considered written amendments of the Contract.

33. AMENDMENTS

Any amendment to this Contract must be in writing and executed by the authorized representatives of each party.

34. COUNTERPARTS

This Contract may be executed in any number of counterparts and by each of the parties hereto on separate counterparts, each of which when so executed and delivered shall be an original, but all such counterparts shall together constitute but one and the same instrument. Any signature page of the Contract may be detached from any counterpart and reattached to any other counterpart hereof. The electronic transmission of a signed original of the Contract or any counterpart hereof and the electronic retransmission of any signed copy hereof shall be the same as delivery of an original.

35. SURVIVAL

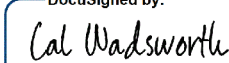
Provisions of this Contract intended by their nature and content to survive termination of this Contract shall so survive including, but not limited to, Articles 5, 7, 8, 10, 14, 15, 17, 18, 19, 20, 23, 29 and 30.

UTAH TRANSIT AUTHORITY:

By:
Jay Fox

Date:

**CALVIN L WADSWORTH
CONSTRUCTION COMPANY, LLC. :**

DocuSigned by:

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Cal Wadsworth, President

Date:2/1/2024

Executive Director

Fed ID# 83-1509086

By:
David Hancock
Chief Service Development Officer

Date:

Approved as to Content and Form

By: 
70E33A415BA44F6...
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Date: 2/1/2024

Reviewed & Recommended

By:
Travis Colledge,
UTA Project Manager

Date:

Design and/or Construction Special Provisions

(To be used for RFPs and Contracts)

ARTICLE 1

General

- 1.1 **Cooperation.** UTA and Contractor commit at all times to cooperate fully with each other, and proceed on the basis of trust and good faith, so as to permit each party to realize the benefits afforded under the Contract Documents.
- 1.2 **Professional Standards.** Contractor shall perform the Work in a good and workmanlike manner, and shall use reasonable skill, care, and diligence. If the Work includes professional services, Contractor shall perform those services in a professional manner, using at least that standard of care, skill and judgment that can reasonably be expected from similarly situated professionals.
- 1.3 **Definitions.** Terms that are defined in the Agreement have the same definition in all the Contract Documents, including in these General Conditions. Unless expressly modified by the Agreement, the following definitions shall also apply to all Contract Documents:

“Agreement” means the document signed by Contractor and UTA to which these General Conditions are attached as an exhibit or into which these General Conditions are incorporated by reference.

“Application for Payment” shall mean an invoice for a progress or final payment made in accordance with the requirements of Article 4.

“Basis of Design Documents” means those preliminary drawings, concept design drawings, technical requirements, performance requirements, project criteria, or other documents that are (i) included in the Contract Documents, and (ii) serve as the basis or starting point for design services to be performed by Contractor, if any.

“Claim” has the meaning indicated in Section 8.1 of these General Conditions.

“Construction Documents” means the final drawings and specifications that set forth in detail the requirements for construction of the Project.

“Contract Documents” means those documents designated as Contract Documents in the Agreement.

“Contract Times” means the guaranteed dates for Substantial Completion, Final Completion (if applicable), and any other deadlines for completion of the Work, or a part thereof, all as set forth in the Agreement.

“Contractor” means the entity that has entered into a contract with UTA to perform construction and other services as detailed in the Contract Documents. The Contractor may be a Design-Builder, general contractor, Construction Manager/General Contractor, or other type of entity.

“Day” means a calendar day unless otherwise specifically noted in the Contract Documents.

“Differing Site Condition” has the meaning indicated in Section 3.2 of these General Conditions.

“Final Completion” has the meaning indicated in Section 4.7 of these General Conditions.

“Force Majeure Event” means a delay caused by any national or general strikes, fires, riots, acts of God, acts of the public enemy, floods, acts of terrorism, unavoidable transportation accidents or embargoes, or other events: (i) which are not reasonably foreseeable as of the date the Agreement was executed; (ii) which are attributable to a cause beyond the control and without the fault or negligence of the party incurring such delay; and (iii) the effects of which cannot be avoided or mitigated by the party claiming such Force Majeure Event through the use of commercially reasonable efforts. The term Force Majeure Event does not include a delay caused by seasonal weather conditions, inadequate construction forces, general economic conditions, changes in the costs of goods, or Contractor’s failure to place orders for equipment, materials, construction equipment or other items sufficiently in advance to ensure that the Work is completed in accordance with the Contract Documents.

“General Conditions” means this document.

“Legal Requirements” means all applicable federal, state, and local laws, codes, ordinances, rules, regulations, orders and decrees of any government or quasi-government entity having jurisdiction over the Project or Site, the practices involved in the Project or Site, or any Work including, without limitation, those related to safety and environmental protection. The terms Legal Requirements shall also include any requirements or conditions included in a permit required for, or issued in conjunction with, the Project.

“Potential Change Notice” has the meaning indicated in Section 7.3 of these General Conditions.

“Project” means the construction project described in the Agreement.

“Punchlist” means shall mean a schedule of Work items (developed in accordance with the procedures described in Article 4) which remain to be completed prior to Final Completion, but which do not adversely affect the performance, operability, capacity, efficiency, reliability, cost effectiveness, safety or use of the Project after Substantial Completion.

“Schedule of Values” means the detailed statement furnished by Contractor and approved by UTA in accordance with Section 4.1, which statement outlines the various components of the Contract Price and allocates values for all such components in a manner that can be used for preparing and reviewing invoices.

“Site” means the land or premises on which the Project is located, as more particularly defined and described in the Contract Documents.

“Subcontractor” means any person or entity (including subcontractors at any tier, design engineers, laborers and materials suppliers) retained by Contractor or any other Subcontractor to perform a portion of Contractor’s obligations under the Contract Documents.

“Substantial Completion” or “Substantially Complete” has the meaning indicated in Section 4.6 of these General Conditions.

“Work” means all obligations, duties, requirements, and responsibilities for the successful completion of the Project by Contractor, including furnishing of all services and/or equipment

(including obtaining all applicable licenses and permits to be acquired by Contractor) in accordance with the Contract Documents.

ARTICLE 2

Contractor's Services

2.1 General Services.

2.1.1 Contractor's Project Manager shall be reasonably available to UTA and shall have the necessary expertise and experience required to supervise the Work. Contractor's Project Manager shall communicate regularly with UTA and shall be vested with the authority to act on behalf of Contractor.

2.1.2 Contractor shall provide UTA with a monthly status report detailing the progress of the Work, including: (i) whether the Work is proceeding according to schedule; (ii) whether discrepancies, conflicts, or ambiguities exist in the Contract Documents that require resolution; (iii) whether unusual health and safety issues exist in connection with the Work; and (iv) other items that require resolution so as not to jeopardize Contractor's ability to complete the Work for the Contract Price and within the Contract Time(s).

2.1.3 Unless a schedule for the execution of the Work has been attached to the Agreement as an exhibit at the time the Agreement is executed, Contractor shall prepare and submit, within seven (7) Days of the execution of the Agreement, a schedule for the execution of the Work for UTA's review and response. The schedule must indicate the dates for the start and completion of the various stages of Work, including the required dates when UTA obligations must be completed to enable Contractor to achieve the Contract Time(s). Such UTA obligation dates may include (where contemplated in the Contract Documents): (i) Site availability requirements; and/or (ii) dates when UTA information or approvals are required. The schedule shall be revised as required by conditions and progress of the Work, but such revisions shall not relieve Contractor of its obligations to complete the Work within the Contract Time(s), as such dates may be adjusted in accordance with the Contract Documents. UTA's review of, and response to, the schedule shall not be construed as relieving Contractor of its complete and exclusive control over the means, methods, sequences and techniques for executing the Work.

2.2 Design Services. If the Work includes any design services, provisions 2.2.1 through 2.2.8 apply.

2.2.1 Contractor shall provide the necessary design services, including architectural, engineering and other design professional services, for the preparation of the required drawings, specifications and other design submittals to permit Contractor to complete the Work consistent with the Contract Documents. Contractor shall ensure that design services are performed by qualified, licensed design professionals employed by Contractor, or by qualified, independent licensed design contractors procured by Contractor.

2.2.2 Contractor and UTA shall, consistent with any applicable provision of the Contract Documents, agree upon any interim design submissions that UTA may wish to review, which interim design submissions may include design criteria, drawings, diagrams, and

specifications setting forth the Project requirements. Interim design submissions must be consistent with the Basis of Design Documents, as the Basis of Design Documents may have been changed through the design process set forth in this Section 2.2.2. On or about the time of the scheduled submissions, Contractor and UTA shall meet and confer about the submissions, with Contractor identifying during such meetings, among other things, the evolution of the design and any changes to the Basis of Design Documents, or, if applicable, previously submitted design submissions. Changes to the Basis of Design Documents shall be processed in accordance with Article 7. Minutes of the meetings, including a full listing of all changes, will be maintained by Contractor and provided to all attendees for review. Following the design review meeting, UTA will be entitled to at least ten (10) Days to review and approve the interim design submissions and meeting minutes.

- 2.2.3 To the extent not prohibited by the Contract Documents or Legal Requirements, and with the approval of UTA, Contractor may prepare interim design submissions and Construction Documents for a portion of the Work to permit construction to proceed on that portion of the Work prior to completion of the Construction Documents for the entire Work.
- 2.2.4 Contractor shall submit proposed Construction Documents to UTA, which must be consistent with the latest set of interim design submissions, as such submissions may have been modified in a design review meeting and recorded in the meeting minutes. The parties shall have a design review meeting to discuss, and UTA shall review and approve, the Construction Documents in accordance with the procedures set forth in Section 2.2.2 above. Contractor shall submit one set of approved Construction Documents to UTA prior to commencement of construction.
- 2.2.5 UTA's review and approval of interim design submissions, meeting minutes, and Construction Documents is for the purpose of mutually establishing a conformed set of Contract Documents compatible with the requirements of the Work. Neither UTA's review nor approval of any interim design submissions, meeting minutes, and Construction Documents shall be deemed to: (i) relieve Contractor from its obligations to comply with the Contract Documents; (ii) relieve Contractor from its obligations with respect to the accuracy of the design submittals; or (iii) transfer any design liability from Contractor to UTA.
- 2.2.6 Upon completion of the Work, and as a condition to receiving final payment pursuant to Section 4.7, Contractor shall prepare and provide to UTA a final set of as-built drawings, depicting the Project as completed, including all changes to the Project made subsequent to the approval of the Construction Documents.
- 2.2.7 All drawings, specifications, interim design submissions, Construction Documents, and other documents furnished by Contractor to UTA pursuant to the Contract Documents (those documents, the "Work Product") are deemed to be instruments of service and Contractor shall retain the ownership and intellectual property rights therein.
- 2.2.8 Once UTA has made a corresponding payment for the Work required for Contractor to prepare any Work Product, Contractor will be deemed to have granted to UTA a license to

use that Work Product in connection with the construction, occupancy, and maintenance of the Project, or any other UTA project or facility.

2.3 Government Approvals, Permits, and Legal Requirements.

- 2.3.1 Except where the Contract Documents expressly state that UTA will be responsible for a specific entitlement, Contractor shall obtain and pay for all necessary permits, approvals, licenses, government charges and inspection fees required for the prosecution of the Work by any government or quasi-government entity having jurisdiction over the Project or Site. Contractor shall provide reasonable assistance to UTA in obtaining any permits, approvals, and licenses that the Contract Documents expressly specify to be a UTA responsibility.
- 2.3.2 Contractor shall perform the Work in accordance with all Legal Requirements and shall provide all notices applicable to the Work as required by the Legal Requirements.
- 2.3.2 Contractor shall file a notice of commencement, a notice of completion, and other notices required by Utah Code Title 38 (Liens). Contractor shall file such notices in the manner and within the time periods required by law.
- 2.3.3 The Contract Price and/or Contract Time(s) will be adjusted to compensate Contractor for the effects of any changes in the Legal Requirements provided that such changes: (i) materially increase Contractor's cost of, or time required for, the performance of the Work; and (ii) are enacted after the effective date of the Agreement.

2.4 Construction Services.

- 2.4.1 Contractor shall proceed with construction in accordance with the approved Construction Documents.
- 2.4.2 Except to the extent that the Contract Documents expressly identify UTA obligations related to the Work, Contractor shall provide through itself or Subcontractors the necessary supervision, labor, inspection, testing, start-up, material, equipment, machinery, temporary utilities and other temporary facilities (whether or not expressly stated or depicted in the Contract Documents or Construction Drawings) to permit Contractor to complete construction of the Project consistent with the Contract Documents.
- 2.4.3 Contractor is responsible for securing the Site until UTA issues a Certificate of Substantial Completion.
- 2.4.4 Contractor shall perform all construction activities efficiently and with the requisite expertise, skill and competence to satisfy the requirements of the Contract Documents. Contractor shall at all times exercise complete and exclusive control over the means, methods, sequences, techniques and procedures of construction.
- 2.4.5 Contractor shall be solely responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take necessary precautions for the safety of, and shall provide necessary protection to prevent damage,

injury or loss to the following: (i) all Contractor, Subcontractor, UTA employees, the public and other persons who may be affected thereby; (ii) all Work and all equipment and materials to be incorporated into the Work; and (iii) other property at the Site or adjacent thereto. Contractor shall comply with the minimum standards imposed by UTA's Construction Safety and Security Program Manual, as updated from time to time (UTA's Construction Safety and Security Program Manual is incorporated into the Contract Documents by reference). However, Contractor shall be responsible for all additional as necessary to comply protect persons and property and comply with applicable Legal Requirements related to safety.

- 2.4.6 Contractor shall employ only Subcontractors who are duly licensed and qualified to perform the Work consistent with the Contract Documents. UTA may require Contractor to remove from the Project a Subcontractor or anyone employed directly or indirectly by any Subcontractor, if UTA reasonably concludes that the Subcontractor is creating safety risks at the Site or quality risks to the Project.
- 2.4.7 Contractor is responsible for the proper performance of the Work by Subcontractors and for any acts and omissions in connection with such performance. Nothing in the Contract Documents is intended or deemed to create any legal or contractual relationship between UTA and any Subcontractor, including but not limited to any third-party beneficiary rights.
- 2.4.8 Contractor shall coordinate the activities of all of its Subcontractors. If UTA performs other work on the Project or at the Site with separate contractors under UTA's control, Contractor agrees to reasonably cooperate and coordinate its activities with those of such separate contractors so that the Project can be completed in an orderly and coordinated manner without unreasonable disruption.
- 2.4.9 Contractor shall keep the Site reasonably free from debris, trash and construction wastes to permit Contractor to perform its construction services efficiently, safely and without interfering with the use of adjacent land areas. Upon Substantial Completion of the Work, or a portion of the Work, Contractor shall remove all debris, trash, construction wastes, materials, equipment, machinery and tools arising from the Work or applicable portions thereof to permit UTA to occupy the Project or a portion of the Project for its intended use.

2.5 Quality Control, Quality Assurance, Inspection, Rejection and Correction of Work.

- 2.5.1 Contractor shall develop a Project-specific construction quality control plan as contemplated in UTA's Quality Management Plan and Construction Quality Plan. The Contractor's plan shall satisfy the minimum requirement imposed by UTA's Construction Quality Plan and shall be sufficient to ensure that Work is performed in compliance with the Contract Documents. If the Work includes any design services, Contractor shall also develop and thereafter comply with a design quality plan that meets the minimum requirements set forth in the UTA Design Quality Plan. The UTA Quality Management Plan, Construction Quality Plan and Design Quality Plan are incorporated into the

Contract Documents by reference. The Contractor's plans shall be subject to UTA's review and approval.

- 2.5.2 Contractor shall comply with the approved quality control plan(s). Responsibilities shall include inspection and testing and related activities including administration, management, supervision, reports, record keeping and use of independent testing agencies and laboratories. Contractor shall provide evidence of compliance with the Contract Documents.
- 2.5.3 UTA will have the right to audit and spot check the Contractor's quality control procedures and documentation. This will include the Company's right to inspect and test all Work at reasonable times. Contractor shall cooperate with any inspection and testing performed by UTA. All contractor-furnished materials and supplies shall be subject to inspection at the point of manufacture.
- 2.5.2 Any inspection and testing performed by UTA shall be for the sole and exclusive benefit of UTA. Neither inspection and testing of Work, nor the lack of same nor acceptance of the Work by UTA, nor payment therefore shall relieve Contractor from any of its obligations under the Contract Documents.
- 2.5.3 At any time prior to Substantial Completion, UTA may reject Work which fails to conform to the Contract Documents. Contractor shall, at its sole expense, promptly re-perform or correct any Work so as to conform to the requirements of the Contract. Contractor shall not be entitled to an adjustment to the Contract Price and/or Contract Times with respect to any corrective action necessary to rectify non-conforming Work.
- 2.5.4 If Contractor fails to promptly remedy rejected Work, UTA may, without limiting or waiving any other rights or remedies it may have, self-perform (through its own forces or through other contractors) the necessary corrective action(s) and deduct all amounts so incurred from any amount then or thereafter due Contractor.

2.6 **Contractor's Warranty.**

- 2.6.1 Contractor warrants to UTA that all Work, including all materials and equipment furnished as part of the Work, shall be: (i) of good quality conforming to generally recognized industry standards; (ii) in conformance with the Contract Documents; (iii) free of defects in materials and workmanship; and (iv) consistent with applicable Legal Requirements. Without limiting the generality of the forgoing, Contractor also specifically warrants that any design, engineering or other professional services provided by Contractor shall be shall satisfy applicable professional standards of care and that all materials and that any equipment furnished as part of the construction shall be new (unless otherwise specified in the Contract Documents). This provision is not intended to limit any manufacturer's warranty that provides UTA with greater warranty rights than set forth in this Section 2.6. Contractor shall provide UTA with all manufacturers' warranties upon Substantial Completion. Similarly, nothing in this Article is intended to limit any other express warranties set forth in the Contract Documents or to limit any other warranties implied by law, custom or usage of trade.

- 2.6.2 If Contractor becomes aware of any defect in the Work, or non-conformance with the Contract Documents, Contractor shall give prompt written notice of that defect or non-conformance to UTA.
- 2.6.3 Except as otherwise stated in the Agreement, Contractor shall correct any Work that does not comply with the warranties provided above for a period of two years following the date of Substantial Completion.
- 2.6.4 Contractor shall, within seven (7) Days of receipt of written notice from UTA that the Work does not comply with the warranties provided above, take meaningful steps to commence corrective action, including the correction, removal, replacement or re-performance of the nonconforming Work and the repair of any damage to other property caused the warranty failure. If Contractor fails to commence the necessary corrective action within such seven (7) Day period (or thereafter fails to continuously and diligently pursue such corrective action to completion), UTA may (in addition to any other remedies provided under the Contract Documents) provide Contractor with written notice that UTA will self-perform (through its own forces or through other contractors) correction of the warranty failure at Contractor's expense. If UTA performs (or causes to be performed) such corrective action, UTA may collect from Contractor all amounts so incurred. If the nonconforming Work creates an emergency requiring an immediate response, the seven (7) Day period identified above shall be deemed inapplicable.
- 2.6.5 The two-year period referenced in Section 2.6.3 above only applies to Contractor's obligation to correct nonconforming Work and is not intended to constitute a period of limitations for any other rights or remedies UTA may have regarding Contractor's other obligations under the Contract Documents

ARTICLE 3

Bond Requirements

3.1 The contract value exceeds the small purchase threshold, contractor shall provide the following bonds:

3.1.1 A Bid Bond (or equivalent guaranty in the form of a letter of credit, certified check or other negotiable instrument deemed to be equivalent by the Authority) equal to five percent of the proposed Contract price securing performance in accordance with the Bid or Proposal provided with submission of bid or proposal.

3.1.2 A Performance Bond equal to 100% of the Contract price provided prior to formal contract execution; and

3.1.3 A Payment Bond equal to 100% of the Contract price provided prior to formal contract execution.

ARTICLE 4.0

Site Conditions

4.1 Hazardous Materials.

- 4.1.1 Unless otherwise expressly provided in the Contract Documents to be part of the Contractor's Work, Contractor is not responsible for any Hazardous Materials encountered at the Site. "Hazardous Materials" means any substance that: (i) is deemed a hazardous waste or substance under any environmental law; or (ii) might endanger the health of people exposed to it.
- 4.1.2 If Contractor discovers at the Site any substance the Contractor reasonably believes to be a Hazardous Material, Contractor shall immediately stop Work in the area of the discovery and immediately report the discovery to the UTA Project Manager. UTA shall determine how to deal with the Hazardous Material, and Contractor shall resume Work in the area when directed to do so by the UTA Project Manager.
- 4.1.3 Contractor will be entitled to an adjustment to the Contract Price and/or Contract Time(s) to the extent Contractor's cost and/or time of performance have been adversely impacted by the presence of Hazardous Materials.
- 4.1.4 The risk allocation and change provisions of Sections 3.1.1 through 3.1.3 do not apply to any Hazardous Materials introduced to the Site by Contractor, its Subcontractors, or anyone for whose acts Contractor is responsible. Those provisions also exclude Hazardous Materials that were properly stored and/or contained at the Site but thereafter released as a result of the Contractor's negligent performance of the Work. To the extent that Hazardous Materials are introduced and/or released at the Site by Contractor as described above in this Section 3.1.4, then: (i) to the fullest extent permitted by law, Contractor shall defend and indemnify UTA from and against all claims, losses, damages, liabilities and expenses, including attorneys' fees and expenses, arising out of or resulting from such Hazardous Materials; and (ii) Contractor shall not be entitled to an extension of Contract Price and/or Contract Time(s).

4.2 Differing Site Conditions.

- 4.2.1 If Contractor encounters a Differing Site Condition, Contractor will be entitled to an adjustment to the Contract Price and/or Contract Time(s) to the extent Contractor's cost and/or time of performance have been adversely impacted by the Differing Site Condition. "Differing Site Condition" means concealed or latent physical conditions at

the Site that: (i) materially differ from the conditions indicated in the Contract Documents; and (ii) are of an unusual nature, differing materially from the conditions ordinarily encountered and generally recognized as inherent in the Work.

- 4.2.2 Upon encountering a Differing Site Condition, Contractor shall provide prompt written notice to UTA of such condition, which notice shall not be later than five (5) Days after such condition has been encountered. Contractor shall, to the extent reasonably possible, provide such notice before the Differing Site Condition has been substantially disturbed or altered.

ARTICLE 5

Payment

5.1 Schedule of Values (Applicable where payment is made on the basis of progress, milestones, or on a periodic basis.)

- 5.1.1 Unless required by UTA upon execution of this Agreement, within ten (10) Days of execution of the Agreement, Contractor shall submit for UTA's review and approval a Schedule of Values for all of the Work. The Schedule of Values will: (i) subdivide the Work into its respective parts; (ii) include values for all items comprising the Work; and (iii) serve as the basis for monthly progress payments made to Contractor throughout the Work.
- 5.1.2 UTA will timely review and approve the Schedule of Values so as not to delay the submission of the Contractor's first application for payment. UTA and Contractor shall timely resolve any differences so as not to delay the Contractor's submission of its first application for payment.

5.2 Application for Payment.

- 5.2.1 To receive payment, Contractor shall submit to UTA an Application for Payment requesting payment to which contractor is entitled depending on the type of payment specified in Article 5 and Exhibit B. Contractor shall not submit Applications for Payment more often than once per month. The Application for Payment must be accompanied by supporting documentation sufficient to establish, to UTA's reasonable satisfaction, Contractor's entitlement to receive payment.
- 5.2.2 The Application for Payment may request payment for equipment and materials not yet incorporated into the Project, provided that: (i) UTA is satisfied that the equipment and materials are suitably stored at either the Site or another acceptable location; (ii) the equipment and materials are protected by suitable insurance; and (iii) upon payment, UTA will receive the equipment and materials free and clear of all liens and encumbrances.
- 5.2.3 The Application for Payment will constitute Contractor's representation that the Work described therein has been performed consistent with the Contract Documents, has progressed to the point indicated in the Application for Payment, and that title to all materials and equipment will pass to UTA free and clear of all claims, liens,

encumbrances, and security interests upon the incorporation of the materials and equipment into the Project, or upon Contractor's receipt of payment, whichever occurs earlier.

5.3 Invoicing Procedures

- 5.31. Contractor shall invoice UTA after achievement of contractual milestones or after delivery of all Goods and satisfactory performance of all Services. Contractor shall submit invoices to Travis Colledge, PM at tcolledge@rideuta.com for processing and payment. In order to timely process invoices, Contractor shall include the following information on each invoice:
- i. Contractor Name
 - ii. Unique Invoice Number
 - iii. PO Number
 - iv. Invoice Date
 - v. Detailed Description of Charges
 - vi. Total Dollar Amount Due
- 5.3.2 UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Goods or Services. Approval by UTA shall not be unreasonably withheld. UTA shall also have the right to offset (against payments) amounts reasonably reflecting the value of any claim which UTA has against Contractor under the Contract. Payment for all invoice amounts not specifically disapproved or offset by UTA shall be provided to Contractor within thirty (30) calendar days of invoice submittal.

5.4 Sales Tax Exemption

- 5.4.1 Purchases of certain materials are exempt from Utah sales tax. UTA will provide a sales tax exemption certificate to Contractor upon request. UTA will not pay Contractor for sales taxes for exempt purchases, and such taxes should not be included in Contractor's Application for Payment.

5.5 UTA's Payment Obligations.

- 5.5.1 UTA shall pay Contractor all amounts properly requested and documented within thirty (30) Days of receipt of an Application for Payment.
- 5.5.2 Notwithstanding Section 5.5.1, UTA may withhold up to 5% of each payment as retention in accordance with Utah Code Ann. § 13-8-5.
- 5.5.3 Notwithstanding Section 5.5.1, UTA may offset from such Application for Payment amounts any owed to UTA by Contractor pursuant to the Contract Documents.
- 5.5.4 If UTA determines that Contractor is not entitled to all or part of an Application for Payment as a result of Contractor's failure to meet its obligations under the Contract Documents, UTA will notify Contractor of the specific amounts UTA has withheld (or intends to withhold), the reasons and contractual basis for the withholding, and the specific actions Contractor must take to qualify for payment under the Contract

Documents. If the Contractor disputes UTA's bases for withholding, Contractor may pursue its rights under the Contract Documents, including those under Article 8.

5.6 Contractor's Payment Obligations.

5.6.1 Contractor shall pay Subcontractors, in accordance with its contractual obligations to such parties, all the amounts Contractor has received from UTA on account of their work. Contractor shall indemnify and defend UTA against any claims for payment and mechanic's liens as set forth in Section 6.2 hereof. Contractor may withhold up to 5% of each payment as retention corresponding to retentions withheld by UTA but must pay the subcontractor all retained monies within 10 days of receipt from UTA by the Contractor. All retentions must be in compliance with Utah Code Ann. § 13-8-5.

5.6.2 Contractor shall pay its employees and also ensure its sub-tier contractors at every level pay their eligible employees the prevailing wage rate as established by the Utah State Labor Commission.

5.6.3 If the Contract Documents include Federal Clauses, the terms of those Federal Clauses pertaining to payment of Subcontractors supersede any conflicting terms of this Article 5.

5.7 Substantial Completion.

5.7.1 Contractor shall notify UTA when it believes the entire Work is Substantially Complete. As used in the Contract Documents, "Substantially Complete" or "Substantial Completion" refers to the Contractor's satisfactory completion of all Work in accordance with the Contract Documents (excluding Punchlist items) to point such that UTA may safely start-up, occupy or otherwise fully use the Project for its intended purposes in compliance with applicable Legal Requirements. The terms "Substantially Complete" or "Substantial Completion" also require the completion of any items of Work specifically set forth as conditions precedent to Substantial Completion in the Agreement. Within five (5) Days of UTA's receipt of Contractor's notice, UTA and Contractor will jointly inspect such Work to verify that it is Substantially Complete in accordance with the requirements of the Contract Documents. If such Work is Substantially Complete, UTA shall prepare and issue a Certificate of Substantial Completion that will set forth: (i) the date of Substantial Completion of the Work or portion thereof; (ii) the remaining Punchlist items that have to be completed before Final Completion and final payment; and (iii) provisions (to the extent not already provided in the Contract Documents) establishing UTA's and Contractor's responsibility for the Project's security, maintenance, utilities and insurance pending Final Completion and final payment.

5.7.2 Promptly after issuing the Certificate of Substantial Completion, UTA shall release to Contractor all retained amounts, less an amount equal to two times the reasonable value of all remaining Punchlist items noted in the Certificate of Substantial Completion.

- 5.7.3 Upon Contractor's request or upon UTA's own initiative, UTA may, in its sole discretion, deem a discrete segment of the Project to be Substantially Complete. The provisions of Sections 5.6.1 and 5.6.2 will apply to that discrete segment of the Project. In addition, before UTA may take possession of a discrete segment of the Project, UTA and Contractor shall obtain the consent of their sureties, insurers, and any government authorities having jurisdiction over the Project.
- 5.7.4 Following Substantial Completion, UTA may restrict Contractor's access to the Site. UTA shall allow Contractor reasonable access to the Site in order for the Contractor to achieve Final Completion.

5.8 Final Payment.

- 5.8.1 When Contractor has achieved Final Completion of the Work, Contractor shall submit a Final Application for Payment. As used in the Contract Documents, "Final Completion" refers to the Contractor's satisfactory completion of all Work in accordance with the Contract Documents including completion of Punchlist items, demobilization from the Site and the transmittal of all deliverables required by the Contract Documents. The Final Application for Payment shall include (at a minimum) the items set forth below.
 - 5.8.1.1 An affidavit that there are no claims, obligations or liens outstanding or unsatisfied for labor, services, materials, equipment, taxes or other items performed, furnished or incurred for or in connection with the Work which will in any way affect UTA's interests;
 - 5.8.1.2 A general release executed by Contractor waiving, upon receipt of final payment, all claims, except those claims previously made in writing to UTA and remaining unsettled at the time of final payment;
 - 5.8.1.3 All as-built drawings, redlined drawings, operating manuals, warranty assignments and other deliverables required by the Contract Documents; and
 - 5.8.1.4 Certificates of insurance confirming that required coverages will remain in effect consistent with the requirements of the Contract Documents.
- 5.8.2 Deficiencies in the Work discovered after Substantial Completion, whether or not such deficiencies would have been included on the Punchlist if discovered earlier, will be deemed warranty Work. Contractor shall correct such deficiencies pursuant to Section 2.6, and UTA may withhold from the final payment the reasonable value of completion of the deficient work until that work is completed.

ARTICLE 6

Indemnification and Loss

- 6.1 **Patent and Copyright Infringement.** If the Work includes any design services, provisions 6.1.1 through 6.1.3 apply.

- 6.1.1 Contractor shall defend any action or proceeding brought against UTA based on any claim that the Work, or any part thereof, or the operation or use of the Work or any

part thereof, constitutes infringement of any United States patent or copyright, now or hereafter issued. UTA shall give prompt written notice to Contractor of any such action or proceeding and will reasonably provide authority, information and assistance in the defense of same. Contractor shall indemnify UTA from and against all damages and costs, including but not limited to attorneys' fees and expenses awarded against UTA or Contractor in any such action or proceeding. Contractor shall keep UTA informed of all developments in the defense of such actions.

6.1.2 If UTA is enjoined from the operation or use of the Work, or any part thereof, as the result of any patent or copyright suit, claim, or proceeding, Contractor shall at its sole expense take reasonable steps to procure the right to operate or use the Work. If Contractor cannot so procure such right within a reasonable time, Contractor shall promptly, at Contractor's expense, either: (i) modify the Work so as to avoid infringement of any such patent or copyright; or (ii) replace said Work with Work that does not infringe or violate any such patent or copyright.

6.1.3 Sections 6.1.1 and 6.1.2 above shall not be applicable to any suit, claim or proceeding based on infringement or violation of a patent or copyright: (i) relating solely to a particular process or product of a particular manufacturer specified by UTA and not offered or recommended by Contractor to UTA; or (ii) arising from modifications to the Work by UTA or its agents after acceptance of the Work

6.2 **Payment Claim Indemnification.** Provided that UTA is not in breach of its contractual obligation to make payments to Contractor for the Work, Contractor shall indemnify, defend and hold harmless UTA from any claims or mechanic's liens brought against UTA or against the Project as a result of the failure of Contractor, its Subcontractors, or others for whose acts Contractor is responsible, to pay for any services, materials, labor, equipment, taxes or other items or obligations furnished or incurred for or in connection with the Work. Within three (3) Days of receiving written notice from UTA that such a claim or mechanic's lien has been filed, Contractor shall commence to take the steps necessary to discharge said claim or lien, including, if necessary, the furnishing of a mechanic's lien bond. If Contractor fails to do so, UTA will have the right to discharge the claim or lien and hold Contractor liable for costs and expenses incurred, including attorneys' fees.

6.3 **Contractor's General Indemnification.**

6.3.1 Contractor, to the fullest extent permitted by law, shall indemnify, hold harmless and defend UTA, its officers, trustees, and employees from and against claims, losses, damages, liabilities, including attorneys' fees and expenses, for bodily injury, sickness or death, and property damage or destruction resulting from or arising out of the negligent acts or omissions of Contractor, Subcontractors, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable.

6.3.2 If an employee of Contractor, a Subcontractor, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable has a claim against

UTA, its officers, directors, employees, or agents, Contractor’s indemnity obligation set forth in Section 5.3.1 above will not be limited by any limitation on the amount of damages, compensation or benefits payable by or for Contractor, Subcontractors, or other entity under any employee benefit acts, including workers’ compensation or disability acts.

6.4 Risk of Loss. Contractor bears all risk of loss to the Project, including materials and equipment not yet incorporated into the Project, until final payment is made by UTA. The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. UTA is no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this contract by the Contractor, his agents, representatives, employees, or subcontractors and Contractor is free to purchase additional insurance as may be determined necessary.

ARTICLE 7

INSURANCE REQUIREMENTS

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract. The Utah Transit Authority in no way warrants that the minimum limits contained herein are sufficient to protect the Contractor from liabilities that might arise out of the performance of the work under this contract by the Contractor, his agents, representatives, employees or subcontractors and Contractor is free to purchase additional insurance as may be determined necessary.

A. MINIMUM SCOPE AND LIMITS OF INSURANCE: Contractor shall provide coverage with limits of liability not less than those Stated below. An excess liability policy or umbrella liability policy may be used to meet the minimum liability requirements provided that the coverage is written on a “following form” basis.

1. Commercial General Liability – Occurrence Form

Policy shall include bodily injury, property damage and broad form contractual liability coverage.

- General Aggregate \$4,000,000
- Products – Completed Operations Aggregate \$1,000,000
- Personal and Advertising Injury \$1,000,000
- Each Occurrence \$2,000,000

a. The policy shall be endorsed to include the following additional insured language: "The Utah Transit Authority shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Contractor".

- b. The policy must also contain the following endorsement, WHICH MUST BE STATED ON THE CERTIFICATE OF INSURANCE: “Contractual Liability Railroads” ISO from CG 24 17 10 01 (or a substitute form providing equivalent coverage) showing “Utah Transit Authority Property” as the Designated Job Site

2. Automobile Liability

Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.

Combined Single Limit (CSL)	\$2,000,000
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- a. The policy shall be endorsed to include the following additional insured language: "The Utah Transit Authority shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Contractor, including automobiles owned, leased, hired or borrowed by the Contractor".

3. Worker's Compensation and Employers' Liability

Workers' Compensation	Statutory
Employers' Liability	
Each Accident	\$100,000
Disease – Each Employee	\$100,000
Disease – Policy Limit	\$500,000

- a. Policy shall contain a waiver of subrogation against the Utah Transit Authority.
- b. This requirement shall not apply when a contractor or subcontractor is exempt under UCA, AND when such contractor or subcontractor executes the appropriate waiver form.

4. Professional Liability (Errors and Omissions Liability)

The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this contract.

Each Claim	\$1,000,000
Annual Aggregate	\$2,000,000

- a. In the event that the professional liability insurance required by this Contract is written on a claims-made basis, Contractor warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of three (3) years beginning at the time work under this Contract is completed.

5. **Railroad Protective Liability Insurance (RRPLI) –**

During construction and maintenance within fifty (50) feet of an active railroad track, including but not limited to installation, repair or removal of facilities, equipment, services or materials, the Contractor must maintain "Railroad Protective Liability" insurance on behalf of UTA only as named insured, with a limit of not less than \$2,000,000 per occurrence and an aggregate of \$6,000,000.

If the Contractor is not enrolling for this coverage under UTA's blanket RRPLI program, the policy provided must have the definition of "JOB LOCATION" AND "WORK" on the declaration page of the policy shall refer to this Agreement and shall describe all WORK or OPERATIONS performed under this Agreement.

6. **Contractors' Pollution Legal Liability and/or Asbestos Legal Liability** (if project involves environmental hazards) with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate. *(NOTE: Projects over \$10,000,000 will require limits of \$2,000,000 per occurrence and \$4,000,000 aggregate; Projects over \$40,000,000 will require limits of \$5,000,000 per occurrence and \$5,000,000 aggregate)*
7. **Builder's Risk:** Builder's risk (course of construction) insurance, covering the risk of loss for any damage or loss to the building or structure by any means or occurrence until the final completion of the contract work. Coverage shall utilize an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions. The coverage shall include mechanical breakdown, property in transit, property at temporary storage locations, earthquake damage and flood damage insuring the interests of UTA, SLCDA and their respective subcontractors of any tier providing equipment, materials or services for the project.

B. **ADDITIONAL INSURANCE REQUIREMENTS:** The policies shall include, or be endorsed to include the following provisions:

1. On insurance policies where the Utah Transit Authority is named as an additional insured, the Utah Transit Authority shall be an additional insured to the full limits of liability purchased by the Contractor. Insurance limits indicated in this agreement are minimum limits. Larger limits may be indicated after the contractor's assessment of the exposure for this contract; for their own protection and the protection of UTA.
2. The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
3. Contractor and their insurers shall endorse the required insurance policy(ies) to waive their right of subrogation against UTA. Contractor's insurance shall be primary with respect to any insurance carried by UTA. Contractor will furnish UTA at least thirty (30) days advance written notice of any cancellation or non-renewal of any required coverage that is not replaced.

- C. NOTICE OF CANCELLATION: Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided, or canceled except after thirty (30) days prior written notice has been given to the Utah Transit Authority, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to (Utah Transit Authority agency Representative's Name & Address).
- D. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the State and with an "A.M. Best" rating of not less than A-VII. The Utah Transit Authority in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.
- E. VERIFICATION OF COVERAGE: Contractor shall furnish the Utah Transit Authority with certificates of insurance (on standard ACORD form) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be sent to utahta@ebix.com and received and approved by the Utah Transit Authority before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

All certificates required by this Contract shall be emailed directly to Utah Transit Authority's insurance email address at utahta@ebix.com. The Utah Transit Authority project/contract number and project description shall be noted on the certificate of insurance. The Utah Transit Authority reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time. DO NOT SEND CERTIFICATES OF INSURANCE TO THE UTAH TRANSIT AUTHORITY'S CLAIMS AND INSURANCE DEPARTMENT.

- F. SUBCONTRACTORS: Contractors' certificate(s) shall include all subcontractors as additional insureds under its policies or subcontractors shall maintain separate insurance as determined by the Contractor, however, subcontractor's limits of liability shall not be less than \$1,000,000 per occurrence / \$2,000,000 aggregate. Sub-contractors maintaining separate insurance shall name Utah Transit Authority as an additional insured on their policy. Blanket additional insured endorsements are not acceptable from sub-contractors. Utah Transit Authority must be scheduled as an additional insured on any sub-contractor policies.
- G. APPROVAL: Any modification or variation from the insurance requirements in this Contract shall be made by Claims and Insurance Department or the Office of General Counsel, whose decision shall be final. Such action will not require a formal Contract amendment, but may be made by administrative action.

Article 8.0

Health Insurance

Insurance Coverage for Employees.

- 8.1 If the Contract Price is \$2,000,000 or more, Contractor shall, prior to the effective date of the Agreement, demonstrate to UTA that Contractor has and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the Contractor's employees and the employee's dependents during the duration of the Contract.
- 8.2 If the Contractor enters into any subcontracts under the Contract Documents in an amount of \$1,000,000 or more, then Contractor shall also demonstrate to UTA that such subcontractor(s) have and will maintain an offer of qualified health insurance coverage for the subcontractor's employees and the employee's dependents during the duration of the subcontract.

Article 9.0

TIMELINESS

- 9.1 **Obligation to Achieve the Contract Times.** Contractor shall commence performance of the Work and achieve the Contract Time(s) in accordance with the Contract Documents. The Contract Documents specify critical completion milestones with which Contractor must comply. All time and schedule requirements included within the Contract Documents are of the essence. By executing the Agreement, Contractor confirms that the completion milestones in the Contract Documents are reasonable for the performance of the Work. Unless otherwise excused by the terms of the Contract Documents, Contractor's failure to timely perform the Work in accordance with the completion milestones shall result in the assessment of liquidated damages (if, and to the extent, set forth in the Agreement) and (where no liquidated damages are provided under the Agreement or where the maximum liquidated damages available under the Agreement have been incurred) an event of default.
- 9.2 **Excusable Delays.** The Contract Time(s) for performance shall be equitably adjusted by Change Order to the extent that Contractor is actually and demonstrably delayed in the performance of the Work because of: (i) Differing Site Conditions (as provided in Section 3.2); (ii) Hazardous Materials (as provided in Section 3.1); (iii) Force Majeure Events (as defined in Section 1.3); (iv) changes in the Work directed by UTA (as provided in Section 7.2); (v) constructive changes (as provided in Section 7.3); (vi) changes in Legal Requirements (as provided in Section 2.3.3); (viii) a suspension without cause (as provided in Section 9.1); or (viii) UTA's unexcused delay in performing any UTA obligation specified in the Contract Documents in accordance with the completion milestones indicated in the approved schedule.
- 9.3 **Excusable and Compensable Delays.** In addition to Contractor's right to a time extension for those events set forth in Section 6.2 above, Contractor will also be entitled to an appropriate adjustment of the Contract Price provided, however, that the Contract Price will not be adjusted for delays caused by Force Majeure Events.

ARTICLE 10

Changes

10.1 Change Orders.

10.1.1 Contractor shall not undertake any activity that materially changes the Work, or materially deviates from the requirements of the Contract Documents, except as authorized in this Article 7. Any costs incurred by Contractor without authorization as provided in this Article 7 will be considered non-compensable.

10.1.2 A Change Order is a written instrument, signed by UTA and Contractor, issued after execution of the Agreement, stating their agreement on a change in: (i) the scope of the Work; (ii) the Contract Price; and/or (iii) the Contract Time(s).

10.1.3 All changes in the Work authorized by applicable Change Order shall be performed under the applicable conditions of the Contract Documents. UTA and Contractor shall negotiate in good faith and as expeditiously as possible the appropriate adjustments for such changes.

10.2 **UTA-Directed Changes.** UTA may direct changes in the Work. Upon receipt of such direction, Contractor shall prepare an estimate of the cost and schedule impact of the change (if any). Upon agreement between UTA and Contractor on the scope of the change to the Work, and the adjustment, if any, to the Contract Price and/or Contract Times, UTA and Contractor shall execute a written Change Order.

10.3 Constructive Changes.

10.3.1 To the extent that Contractor: (i) receives a written or verbal direction or proceeding from UTA that Contractor believes to constitute a material change to the nature, character or schedule of the Work; and/or (ii) becomes aware of any circumstance or condition that expressly provides Contractor a right to a Change Order under the terms of the Contract Documents, then (in either case) Contractor shall deliver to UTA's Project Manager written notice (hereinafter a "Potential Change Notice") within ten (10) Days after Contractor becomes aware of (or should have reasonably become aware) the facts and circumstances which Contractor believes to give rise to a Change Order.

10.3.2 Contractor's failure to deliver a Potential Change Notice in a timely manner shall constitute a waiver of all of Contractor's rights to a Change Order.

10.3.3 In conjunction with the Potential Change Notice or not longer than 30 days after delivery of notice, Contractor shall submit to UTA all supporting information and documentation necessary for UTA to evaluate the contractual basis for the Potential Change Notice and to also evaluate the relief claimed by Contractor. Contractor shall promptly respond to all UTA inquiries about the Potential Change Notice and the supporting information and documentation.

10.3.4 To the extent UTA concludes that the Potential Change Notice demonstrates Contractor's entitlement to a Contract adjustment, and provided that the parties are able to negotiate mutually agreeable adjustments to the Contract Documents, then UTA and Contractor shall execute a written Change Order.

10.4 Direction or Authorization to Proceed.

10.4.1 Prior to final agreement with respect to a Change Order, UTA may issue a Direction or Authorization to Proceed ("DAP"). A DAP is a written order unilaterally prepared and signed by UTA directing the Contractor to proceed with specified Work while Change Order negotiations or Claim resolution discussions continue. UTA may issue a DAP at any time, and Contractor shall undertake the Work as set forth in the DAP, and in accordance with the Contract Documents.

10.4.2 After issuance of a DAP, UTA and Contractor shall continue to negotiate in good faith to resolve outstanding issues expeditiously.

10.5 Requests for Information. UTA shall have the right, from time to time, to issue clarifications to the Work of a non-material nature at any time. Contractor shall have the corresponding right to seek clarification with respect to ambiguous or conflicting provisions of the Contract Documents. Such clarifications or conflicts shall be confirmed, implemented and documented through a Request for Information ("RFI") process to be developed for the Project. The RFI process may also be used to document minor changes in the Work do not involve an adjustment in the Contract Price and/or Contract Time(s) and do not materially and adversely affect the Work, including the design, quality, performance and workmanship required by the Contract Documents.

10.6 Contract Price Adjustments.

10.6.1 The increase or decrease in Contract Price resulting from a change in the Work will be determined by one or more of the following methods:

10.6.1.1 Unit prices set forth in the Agreement or as subsequently agreed to between the parties;

10.6.1.2 A mutually accepted lump sum, properly itemized and supported by sufficient substantiating data to permit evaluation by UTA;

10.6.1.3 Costs, fees and any other markup rates set forth in the Agreement; or

10.6.1.4 If an increase or decrease cannot be agreed to as set forth in items 10.6.1.1 through 10.6.1.3 above and UTA issues a DAP, the cost of the change of the Work shall be determined by the reasonable expense and savings in the performance of the Work resulting from the change, including a reasonable overhead and profit rate, as may be set forth in the Agreement.

10.6.2 If unit prices are set forth in the Contract Documents or are subsequently agreed to by the parties, but application of such unit prices will cause substantial inequity to UTA or Contractor because of differences in the character or quantity of such unit items as originally contemplated, such unit prices shall be equitably adjusted.

10.6.3 Negotiations over changes in the Contract Price will be conducted using an open-book cost-estimating process. UTA defines “open-book” to include all elements of Contractor’s costs, including labor hours and rates, units and estimated quantities, unit prices, equipment estimates, material costs, and subcontractor costs. Contractor shall openly share its detailed cost estimate, material and subcontractor quotations and any other information used to compile its cost estimate.

10.7 **Disputes Regarding Change Orders.** If the parties are not able to agree as to whether a Change Order is warranted under the Contract Documents, or cannot agree upon the extent of relief to be granted under a Change Order after good faith negotiations, either party may refer the dispute to the Claim resolution provisions of Article 8. Pending resolution of such Claim, Contractor shall proceed with the Work as directed by UTA under a reservation of rights. UTA shall continue to pay any undisputed payments related to such Claim.

10.8 **Emergencies.** In any emergency affecting the safety of persons and/or property, Contractor shall act, at its discretion, to prevent threatened damage, injury or loss. Any change in the Contract Price and/or Contract Time(s) on account of emergency work shall be determined as provided in this Article 7.

ARTICLE 11

Claims and Dispute Resolution

11.1 Claims.

11.1.1 “Claim” means any disputes between UTA and the Contractor arising out of or relating to the Contract Documents including any disputed claims for Contract adjustments that cannot be resolved in accordance with the Change Order negotiation process set forth in Article 8. Claims must be made by written notice. The responsibility to substantiate claims rests with the party making the claim.

11.1.2 Unless otherwise directed by UTA in writing, Contractor shall proceed diligently with performance of the Work pending final resolution of a Claim, including litigation. UTA shall continue to pay any undisputed payments related to such Claim.

11.2 Dispute Resolution.

11.2.1 The parties shall attempt in good faith to resolve promptly through negotiation any Claim arising out of or relating to the Contract Documents. If a Claim should arise, UTA’s Project Manager and Contractor’s Project Manager will meet at least once to attempt to resolve the Claim. For such purpose, either may request the other to meet within seven (7) Days of the date the Claim is made, at a mutually agreed upon time and place.

11.2.2 If UTA’s Project Manager and Contractor’s Project Manager are not able to resolve the Claim within fourteen (14) Days after their first meeting (or such longer period of time as may be mutually agreed upon), either party may request that UTA’s Senior Representative and the Contractor’s management representative (“Contractor’s Management Representative”) meet at least once to attempt to resolve the Claim.

- 11.2.3 If the Claim has not been resolved within sixty (60) Days of the date the Claim is made, either party may refer the Claim to non-binding mediation by sending a written mediation request to the other party. In the event that such a request is made, the Parties agree to participate in the mediation process. Non-binding mediation of claims or controversies under the Contract Documents shall be conducted by a professional mediator that is mutually acceptable to and agreed upon by both parties (the "Mediator"). The parties and the Mediator may join in the mediation any other party necessary for a mutually acceptable resolution of the Claim. The mediation procedure shall be determined by the Mediator in consultation with the parties. The fees and expenses of the Mediator shall be borne equally by the parties.
- 11.2.4 If the Claim is not resolved within thirty (60) days after the commencement of mediation, or if no mediation has been commenced within one hundred and twenty (120) days of the date the Claim is made, either party may commence litigation to resolve the Claim. The exclusive forum for any such litigation is the Third District Court in and for Salt Lake County, Utah.

ARTICLE 12

Suspension and Termination

12.1 UTA's Right to Stop Work.

- 12.1.1 UTA may, without cause and for its convenience, order Contractor in writing to stop and suspend the Work. Such suspension shall not exceed one hundred and twenty (120) consecutive Days or aggregate more than two hundred and forty (240) Days during the duration of the Project. In the event a suspension continues longer than the above-referenced periods, Contractor shall have the right to terminate the Agreement. Any such termination shall be considered to be a termination for convenience by UTA.
- 12.1.2 If a suspension is directed by UTA without cause, Contractor shall be entitled to seek an adjustment of the Contract Price and/or Contract Time(s) if its cost or time to perform the Work has been adversely impacted by any suspension or stoppage of the Work by UTA.
- 12.1.3 In addition to its rights under Section 12.1.1, UTA shall have the right to order a suspension for cause if the Work at any time ceases to comply with the workmanship, safety, quality or other requirements of the Contract Documents or any Legal Requirements. Contractor shall not be entitled to seek an adjustment the Contract Price and/or Contract Time(s) with regard to any such suspension.

12.2 UTA's Right to Terminate for Convenience. Upon written notice to Contractor, UTA may, for its convenience and without cause, elect to terminate this Agreement. In such event, UTA shall pay Contractor for the following:

- 12.2.1 All Work satisfactorily completed or commenced and in process as of the effective date of termination;
- 12.2.2 The reasonable and demonstrable costs and expenses attributable to such termination, including demobilization costs and amounts due in settlement of terminated contracts with Subcontractors; and
- 12.2.3 The fair and reasonable sums for overhead and profit on the sum of items 12.2.1 and 12.2.2 above. UTA shall not be liable for anticipated profits, costs or overhead based upon Work not yet performed as of the date of termination.

12.3 UTA's Right to Terminate for Cause; Other Remedies for Default.

- 12.3.1 Subject to the cure provision of Section 9.3.2 below and other limitations set forth in these General Conditions, Contractor shall be in default of its obligations under the Contract Documents if Contractor: (i) fails to provide a sufficient number of skilled workers; (ii) fails to supply the materials required by the Contract Documents; (iii) fails to comply with applicable Legal Requirements; (iv) fails to timely pay its Subcontractors without proper cause; (v) makes a materially false or misleading representation or certification in conjunction with the Contract Documents; (vi) fails to prosecute the Work with promptness and diligence to ensure that the Work is completed by the Contract Time(s), as such times may be adjusted; (vii) fails to satisfy any guaranteed interim or completion milestone set forth in the Contract Documents; or (viii) fails to perform any other material obligations under the Contract Documents. In any such event, UTA (in addition to any other rights and remedies provided in the Contract Documents or by law) shall have the rights set forth in Sections 9.3.2 through 9.3.5 below.
- 12.3.2 Upon the occurrence of an event of default set forth in Section 9.3.1 above, UTA may provide written notice to Contractor that it intends to terminate the Agreement (in whole or in part) or pursue other available remedies unless the grounds for default are cured within ten (10) Days of Contractor's receipt of such notice. If Contractor fails to cure the grounds for default within such period, then UTA may declare the Agreement, or portions of the Agreement, terminated for default by providing written notice to Contractor of such declaration; provided, however, that to the extent that an item included is the notice of default and demand for cure is capable of cure, but not within the ten-Day cure period, then the Agreement shall not be terminated so long as Contractor commences actions to reasonably cure such breach within the 10-Day cure period and thereafter continuously and diligently proceeds with such curative actions until completion (such additional period not to exceed 45 Days). UTA may terminate the Agreement without opportunity to cure if the breach involves the Contractor's material failure to comply with any Legal Requirements pertaining to safety or environmental compliance.
- 12.3.3 Upon the continuance of a breach described in Section 9.3.1 for more than ten (10) Days following delivery of written notice to Contractor (and regardless of whether

the Agreement, or any portion hereof, has been terminated as provided above), UTA shall be entitled to self-perform (through its own forces or through other contractors) the corrective action necessary to cure Contractor's event of default and deduct all costs so incurred from any amount then or thereafter due to Contractor.

- 12.3.4 Upon the continuance of a breach described in Section 9.3.1 for more than ten (10) Days following delivery of written notice to Contractor (and regardless of whether the Agreement, or any portion hereof, has been terminated as provided above), UTA shall be entitled to seek performance by any guarantor of Contractor's obligations hereunder or draw upon any surety or security provided for in the Contract Documents.
- 12.3.5 Upon declaring the Agreement terminated pursuant to Section 9.3.2 above, UTA may enter upon the premises and take possession, for the purpose of completing the Work, of all materials, equipment, scaffolds, tools, appliances and other items thereon, which have been purchased or provided for the performance of the Work, all of which Contractor hereby transfers, assigns and sets over to UTA for such purpose, and to employ any person or persons to complete the Work and provide all of the required labor, services, materials, equipment and other items. In the event of such termination, Contractor shall not be entitled to receive any further payments under the Contract Documents until the Work shall be finally completed in accordance with the Contract Documents. At such time, if the unpaid balance of the Contract Price exceeds the cost and expense incurred by UTA in completing the Work, such excess shall be paid by UTA to Contractor. If UTA's cost and expense of completing the Work exceeds the unpaid balance of the Contract Price, then Contractor shall pay the difference to UTA. Such costs and expenses include not only the cost of completing the Work, but also losses, damages, costs and expenses, including attorneys' fees and expenses, incurred by UTA in connection with the procurement and defense of claims arising from Contractor's default.
- 12.3.6 All rights and remedies set forth in the Contract Documents are cumulative, and unless otherwise specifically provided in the Contract Documents are not exclusive of any other rights or remedies that may be available, whether provided by law, equity, statute, in any other agreement between the Parties or otherwise. Upon the occurrence of any such default, following the applicable process described in this Article, UTA shall be entitled to pursue any and all other rights and remedies, including without limitation damages, that UTA may have against Contractor under the Contract Documents or at law or in equity.
- 12.3.7 If UTA improperly terminates the Agreement for cause, the termination for cause will be converted to a termination for convenience in accordance with the provisions of Section 9.2 above.

12.4 **Bankruptcy of Contractor.**

- 12.4.1 If Contractor institutes or has instituted against it a case under the United States Bankruptcy Code, such event may impair or frustrate the Contractor's ability to perform its obligations under the Contract Documents. Accordingly, should such event occur:
- 12.4.1.1 Contractor, its trustee or other successor, shall furnish, upon request of UTA, adequate assurance of the ability of the Contractor to perform all future material obligations under the Contract Documents, which assurances shall be provided within ten (10) Days after receiving notice of the request; and
- 12.4.1.2 Contractor shall file an appropriate action within the bankruptcy court to seek assumption or rejection of the Agreement within sixty (60) Days of the institution of the bankruptcy filing and shall diligently prosecute such action. If Contractor fails to comply with its foregoing obligations, UTA shall be entitled to request the bankruptcy court to reject the Agreement, declare the Agreement terminated and pursue any other recourse available to the UTA under this Article 9.
- 12.4.2 The rights and remedies under Section 9.4.1 above shall not be deemed to limit the ability of UTA to seek any other rights and remedies provided by the Contract Documents or by law, including its ability to seek relief from any automatic stays under the United States Bankruptcy Code.

ARTICLE 13

Value Engineering

13.1 Value Engineering Change Proposals.

- 13.1.1 A Value Engineering Change Proposal ("VECP") is a proposal developed, prepared, and submitted to UTA by the Contractor, which reduces the cost of the Work without impairing essential functions or characteristics of the Project, as determined by UTA in its sole discretion. UTA encourages Contractor to submit VECPs whenever it identifies potential savings or improvements. UTA may also request the Contractor to develop and submit a specific VECP.
- 13.1.2 In determining whether a VECP will impair essential functions or characteristics of the Project, UTA may consider: (i) relative service life; (ii) maintenance effort and frequency; (iii) environmental and aesthetic impacts; (iv) system service; (v) effect of other system components; and (vi) other issues as UTA deems relevant. A VECP must not be based solely on a change in quantities.
- 13.1.3 Contractor must include the following information in any VECP:
- 13.1.3.1 A narrative description of the proposed change,

- 13.1.3.2 A discussion of differences between existing requirements and the proposed change, together with advantages and disadvantages of each changed item;
- 13.1.3.3 A complete cost analysis, including the cost estimate of any additional rights-of-way or easements required for implementation of the VECP;
- 13.1.3.4 Justification for changes in function or characteristics of each item and effect of the change on the performance on the end item;
- 13.1.3.5 A description of any previous use or testing of the proposed approach and the conditions and results. If the VECP was previously submitted on another UTA project, the Contractor shall indicate the date, contract number, and the action taken by UTA;
- 13.1.3.6 Costs of development and implementation; and
- 13.1.3.7 Any additional information requested by UTA, which must be provided in a timely manner.

13.2 **Review and Approval of VECPs**

- 13.2.1 Upon receipt of a VECP, UTA shall process it expeditiously, but will not be liable for any delay in acting upon any VECP. Contractor may withdraw all or part of any VECP at any time prior to approval by UTA, but shall, in any case, be liable for costs incurred by UTA in reviewing the withdrawn VECP, or part thereof. In all other situations, each party will bear its own costs in connection with preparation and review of VECPs.
- 13.2.2 UTA may approve in whole or in part any VECP submitted. The decision of UTA regarding rejection or approval of any VECP will be at the sole discretion of UTA and will be final and not subject to appeal. Contractor will have no claim for any additional costs or delays resulting from the rejection of a VECP, including development costs, loss of anticipated profits, or increased material or labor costs.

13.3 **Cost Savings.** Except as otherwise stated in the Agreement, any savings resulting from an approved VECP will accrue to the benefit of UTA and Contractor on a 50/50 cost sharing basis. Nevertheless, a Contractor shall not be eligible to share in cost savings where the Contractor had responsibility under its scope of work for drafting, reviewing or approving the designs or processes involved in the VECP.

13.4 **Ownership of VECPs.** All approved or disapproved VECPs will become the property of UTA and must contain no restrictions imposed by Contractor on their use or disclosure. UTA retains the right to use, duplicate, and disclose, in whole or in part, any data necessary for the utilization of the VECP on any other projects without any obligation to Contractor. This provision is not intended to deny rights provided by law with respect to patented materials or processes.

ARTICLE 14

Miscellaneous

- 14.1 **Confidential Information.** “Confidential Information” means information that is determined by the transmitting party to be of a confidential or proprietary nature and: (i) the transmitting party identifies in writing as either confidential or proprietary; (ii) the transmitting party takes steps to maintain the confidential or proprietary nature of the information; and (iii) the document is not otherwise available in or considered to be in the public domain. To the extent permitted by law (including specifically UCA Title 63G Chapter 2), the receiving party shall maintain the confidentiality of the Confidential Information and shall use the Confidential Information solely in connection with the Project. The parties agree that the Agreement itself (including all incorporated Contract Documents) does not constitute Confidential Information.
- 14.2 **PUBLIC INFORMATION:** Vendor acknowledges that the Contract and related materials (invoices, orders, etc.) will be public documents under the Utah Government Records Access and Management Act (GRAMA). Vendor’s response to the solicitation for the Contract will also be a public document subject to GRAMA, except for legitimate trade secrets, so long as such trade secrets were properly designated in accordance with terms of the solicitation.
- 14.3 **Prohibited Interest.** No member, officer, agent, or employee of UTA during his or her tenure or for one year thereafter shall have any interest, direct or indirect, including prospective employment by, Contractor or the proceeds under the Contract Documents without specific written authorization by UTA.
- 14.4 **Assignment.** Contractor acknowledges that the Work to be performed by Contractor is considered personal by UTA. Contractor shall not assign or transfer its interest in the Contract Documents without prior written approval by UTA.
- 14.5 **Successors.** Contractor and UTA intend that the provisions of the Contract Documents are binding upon the parties, their employees, agents, heirs, successors and permitted assigns.
- 14.6 **Governing Law.** The Agreement and all Contract Documents are governed by the laws of the State of Utah, without giving effect to its conflict of law principles. Actions to enforce the terms of this Agreement may only be brought in the Third District Court for Salt Lake County, Utah.
- 14.7 **Attorneys Fees and Costs.** If any party to this Agreement brings an action to enforce or defend its rights or obligations hereunder, the prevailing party shall be entitled to recover its costs and expenses, including mediation, arbitration, litigation, court costs and attorneys’ fees, if any, incurred in connection with such suit, including on appeal.
- 14.8 **Severability.** If any provision or any part of a provision of the Contract Documents is finally determined to be superseded, invalid, illegal, or otherwise unenforceable pursuant to any applicable Legal Requirements, such determination shall not impair or otherwise affect the validity, legality, or enforceability of the remaining provision or parts of the provision of the Contract Documents, which shall remain in full force and effect as if the unenforceable provision or part were deleted.

- 14.9 **No Waiver.** The failure of either Contractor or UTA to insist, in any one or more instances, on the performance of any of the obligations required by the other under the Contract Documents shall not be construed as a waiver or relinquishment of such obligation or right with respect to future performance.
- 14.10 **Headings.** The headings used in these General Conditions, or any other Contract Document, are for ease of reference only and shall not in any way be construed to limit or alter the meaning of any provision.
- 14.11 **Amendments.** The Contract Documents may not be changed, altered, or amended in any way except in writing signed by a duly authorized representative of each party.
- 14.12 **FORCE MAJEURE:** Neither party to the Contract will be held responsible for delay or default caused by fire, riot, acts of God and/or war which are beyond that party's reasonable control. UTA may terminate the Contract after determining such delay or default will reasonably prevent successful performance of the Contract.
- 14.13 **ENTIRE AGREEMENT:** The Contract constitutes the entire agreement between the parties with respect to the subject matter, and supersedes any and all other prior and contemporaneous agreements and understandings between the parties, whether oral or written. The terms of the Contract supersede any additional or conflicting terms or provisions that may be preprinted on Vendor's work plans, cost estimate forms, receiving tickets, invoices, or any other related standard forms or documents of Vendor that may subsequently be used to implement, record, or invoice Goods and/or Services hereunder from time to time, even if such standard forms or documents have been signed or initialed by a representative of UTA. The terms of the Contract prevail in any dispute between the terms of the Contract and the terms printed on any such standard forms or documents, and such standard forms or documents will not be considered written amendments of the Contract.

EXHIBIT A – SCOPE OF WORK

The Utah Transit Authority (“UTA”) is contracting to construct the proposed Operator Relief Rooms improvement projects (the “Project”). These include furnishing and installing 5 prefabricated restroom buildings; removals as needed including saw cutting and removal of sidewalk and pavement, tree removals and excavation; obtain required permits from Farmington City, Murray, City of West Jordan, and Midvale; connections to power, water and sewer; site work including building pad prep work, grading and flatwork; furnishing and coordinating placement of prefabricated buildings, connections to utilities, and activation of building; and providing required traffic control, to be approved by corresponding municipality, for each location. The five station locations are as follows:

- Farmington Station: 450 N 850 W, Farmington
- Fashion Place West Station: 222 W Winchester St, Murray
- Jordan Valley Station: 3400 W 8600 S, West Jordan
- Midvale Center Station: 95 W 7720 S, Midvale
- Midvale Fort Union Station: 180 W 7250 S, Midvale

UTA’s project manager for the Project is Travis Colledge. The designer for the Project is Focus Engineering and Surveying, LLC. HNTB is providing Program Management services to UTA for the Project. The contractor is expected to work with stakeholders including cities and utilities companies as needed.

The prefabricated restroom buildings shall be CTX Prefabricated Santiago Model Building Number 22-019-3P, or approved equal, with two restrooms and one break room. No construction or fabrication shall begin until the Contractor has received approval of shop drawings, plans and other documents approved by the permitting authorities. No utility work shall begin until shop drawings have been approved and Contractor submits plans for review for utility connections.

General Project Description: General Contractor to furnish and install five prefabricated Operator Relief Rooms, including the following removals, sitework and traffic control. Contractor is responsible for obtaining required permits and approvals for this work.

1. Removals – Saw cutting & removal of existing sidewalk and pavement as needed, tree removal, and excavation.
2. Utilities – Coordinating with utility companies and providing connections needed for power, water, and sewer. Contractor is responsible for obtaining required permits and coordinating municipalities for inspections required.
3. Site work – Building pad preparation, grading, and flatwork. Contractor is responsible to ensure site work is complete prior to them scheduling delivery of the building.

4. Prefabricated Building – Submittal of shop drawings that include a climatized building for review and approval, fabricating and installation of the prefabricated buildings, connecting utilities, and activating buildings.
5. Traffic Control – Contractor is responsible for providing required traffic control at each location, along with approvals from corresponding municipality.

UTA's standard for Contractor's is to utilize UTA's Procore System. This includes construction submittals, request for information (RFI), invoicing, material certifications, inspections, daily logs, change orders, drawings, and specifications.

Environmental Documentation: The sites were reviewed for the improvements.

A soil management plan was prepared for the Jordan Valley Station as is attached in the appendix. From the pre-construction sampling, soil near SS-8 for the electrical line had lead level concentrations of 2,330 mg/kg, and therefore soil excavated for the electrical line trench 25 feet from each side of where SS-8 was collected and to the bottom of the excavation will need to be disposed of offsite at a non-hazardous waste disposal facility. Contractor is required to have a site-specific health and safety plan and 40-hr HAZWOPER training is required. The Fort Union Station site will require a fugitive dust control plan be submitted and approved prior to work commencing at that station.

Special Requirements: The Contractor is responsible for obtaining required permits including but not limited to land disturbance, encroachment and building permits, coordinating with utilities for required connections and obtaining approval from corresponding municipalities for traffic control approval and other approvals as needed.

As shown on the plans, the Jordan Valley Station site contains metals impacted soil. Site-specific health and safety training is required prior to construction and construction must comply with the soil management plan. See soil management plan for further details pertaining to handling of the soils and required disposal of contaminated soils off site.

OPERATOR RELIEF ROOMS

PREPARED FOR:
 UTAH TRANSIT AUTHORITY
 LOCATED IN:
 FARMINGTON, UT



VICINITY MAP



SITE MAP

Sheet List Table	
Sheet Number	Sheet Title
FARMINGTON STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
FASHION PLACE WEST STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
JORDAN VALLEY STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
MIDVALE CENTRAL STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
FORT UNION STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
C3.1	UTILITY PLAN
C3.2	UTILITY PLAN
APPENDIX STANDARD DRAWINGS	

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL ADHERE TO FARMINGTON CITY STANDARD PLANS AND SPECIFICATIONS.
- ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
- THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH D), IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION AS THERE MAY BE TEXT OR DETAILS THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.

NOTICE

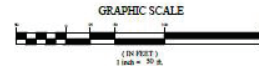
BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

ENGINEER'S NOTES TO CONTRACTOR

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE THE NECESSARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES KNOWN OR NOT KNOWN ON THESE DRAWINGS IF UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY TO CONTRACTOR'S AND MAY BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- UNAUTHORIZED CHANGES & IDEAS: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARE OF THESE PLANS.
- ALL CONTROL LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH ENGINEERING. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SITE ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS OBTAIN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE SUCCESFULLY THE DEFENDED IMPROVEMENTS.

CONTACTS

ENGINEER & SUPERVISOR
 FOCUS ENGINEERING & SURVEYING, LLC
 694 S. HIGH TECH DRIVE SUITE 200
 MIDVALE, UTAH 84047
 (801) 825-9079
 PROJECT MANAGER: JASON WATSON
 SURVEY MANAGER: EVAN WOOD



REV	DATE	DESCRIPTION
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UTA
 UTAH TRANSIT AUTHORITY

Designed By:	WE
Drawn By:	SD
Checked By:	JW
Approved By:	

OPERATOR RELIEF ROOMS
 FARMINGTON STATION
 COVER SHEET

Code:	N.T.A.
CAD Filename:	C1 - COVER - PETA.dwg
Issued Date:	10/16/23
UTA Control No.:	24-00549W
Drawn No.:	C1

COMPLIANCE

1. ALL WORK TO CONFORM TO UTA, IDOT, CITY, AND APWA STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS.
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

PERMITTING AND INSPECTIONS

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PAY FOR AND ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGUN UNTIL THE CONTRACTOR HAS RECEIVED THROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. UTA WILL PAY FOR IMPACT FEES.
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTOR AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY, COUNTY, OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

COORDINATION AND VERIFICATION

1. ALL DIMENSIONS, GRADES AND UTILITY DEVISIONS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS. IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER, CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BEGIND AND BIND UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
2. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL, SITE LIGHTING, AND ELECTRICAL SERVICE TO THE BUILDINGS, ETC., NOT SHOWN ON CIVIL PLANS.

SAFETY AND PROTECTION

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.
4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE, AND LIMITS OF TRENCH EXCAVATION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNERS FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
7. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF PEDESTRIANS AND VISITORS. ALL CONSTRUCTION SIGNS, BARRICADES, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL, ACCORDING TO GOVERNING AGENCY STANDARDS.
10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION, AND IMPLEMENT STORM WATER POLLUTION PREVENTION PLAN.
11. WORK IN PUBLIC STREETS, ORCE BEGINS SHALL BE PROTECTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING FEATURES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE UTA SAFETY MANUAL.

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Submitted By: _____ Approved By: _____

MATERIALS

1. SITE CONCRETE SHALL BE A MINIMUM 4.5 BAG MIX, 4000 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 5% TO 7% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATIONS.
2. SLAB ON GRADE WILL BE TYPICALLY SCORED (1/4" DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FILL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY CRACK (DEEMED TO BE FIXED, CHANGES IN DIRECTION, AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET).
3. CONCRETE WATER REDUCERS, CURABLE MEMBRANES, CURB AND JOINTER, ETC. WILL TYPICALLY BE SCORED (1/4" DEPTH) AT INTERVALS NOT TO EXCEED 12 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 50 FEET.
4. UNLESS OTHERWISE NOTED, ALL SLAB ON GRADE WILL HAVE A MINIMUM 6" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
5. UNLESS OTHERWISE NOTED, A 6" LAYER OF PORTLAND CEMENT CONCRETE (6" FOR BUS TRAFFIC AREAS) SHALL BE PLACED OVER A MINIMUM OF 6" UNTREATED ROAD BASE OVER A WELL COMPACTED 10% SUBGRADE. UNLESS OTHERWISE NOTED, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 8% MINIMUM OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 7% ABOVE OR 1% BELOW OPTIMUM.
6. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED. ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "WET".
7. ALL JOINTS (CONTROL, CONSTRUCTION, OR EXPANSION, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATIONS).
8. CONCRETE REPAIRS SHALL MEET FARMINGTON CITY STANDARDS. SEE STANDARD PLAN NO. 231-SP.

2. ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 1" OVER 8" OF COMPACTED 10% ROAD BASE OVER 10" GRANULAR SUBGRADE OVER 10% SUBGRADE FOR BUS TRAFFIC, 4" MAXIMUM SLUMP WITH 5% TO 7% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATIONS.
3. ASPHALT CONCRETE SHALL BE 1/2" MINUS MAX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
4. ASPHALT CONCRETE PAVEMENT TO BE 1/4" ABOVE LIP OF ALL OUTER (EXCEPT SILL AND CURB CURBS) AFTER COMPACTION.
5. THICKNESS OVER 2" WILL BE LIFT IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 5/8" MINUS DESIGN.

UTILITIES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO VERIFY BY POT-Holing BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK. FORCE.
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POT-Holing A MINIMUM OF 30 FEET AHEAD. PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNATED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKES MUST BE ASSUMED AS APPROXIMATE. REQUIRE FIELD VERIFICATION.
5. FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARD AND SPECIFICATIONS.
6. ALL STORM DRAIN LINES AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
7. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHINKING GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
8. NO CHANGES IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
9. ALL STORM DRAIN AND SEWER CONDUITS, MANHOLES, AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DEBT, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
10. CONTRACTOR IS RESPONSIBLE FOR THE COST AND SCHEDULING OF REQUIRED UTILITIES TO THE PROJECT.
11. ALL WATER LINES SHALL BE INSTALLED PER FARMINGTON CITY STANDARDS. STANDARD PLAN NO. 231-SP FOR WATER SERVICE CONNECTION.

AMERICANS WITH DISABILITIES ACT

1. PREEXISTING ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - ROUTES SHALL HAVE A 2.0% (1:50) MAXIMUM CROSS SLOPE.
 - ROUTES SHALL HAVE A 4.0% (1:25) MAXIMUM SLOPE.
 - RAMPS SHALL HAVE A 8.3% (1:12) MAXIMUM SLOPE.
2. ADA PARKING SPACES AND ADAIC ACCESSIBLE ROUTES SHALL HAVE A 2.0% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
3. THE CONTRACTOR SHALL ADDRESS TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY CONSTRUCTION.

GRADING/SOIL

1. SITE EXCAVATION SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 90% MINIMUM OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 7% ABOVE OR 1% BELOW OPTIMUM.
3. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, AND/OR OTHER UTILITIES. THE LOCATION OF ALL UTILITIES SHALL BE DETERMINED BY THE ENGINEER.
4. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTION AND REVIEW OF WORK.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING BUT NOT LIMITED TO TRAFFIC AND SHORING, TRAFFIC CONTROL, AND SECURITY.
3. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
4. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS OF UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION.
5. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POT-Holing A MINIMUM 100 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGN PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTORS NEGLIGENCE TO POT-HOLE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO THE OWNER.
6. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (E.P.P.S, STRUCTURES, ETC.) DURING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.
7. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL AND NOTIFY ENGINEER OF ANY CHANGES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN OR RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EMISSION CONTROL, 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER.
10. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST AND SCHEDULING OF ALL QUALITY CONTROL INSPECTIONS, TESTING, AND SAMPLING AS OUTLINED IN THE PROJECT SPECIFICATIONS.
11. UTA WILL PROVIDE QUALITY ASSURANCE FOR PROJECT.

UTILITY CONTACTS

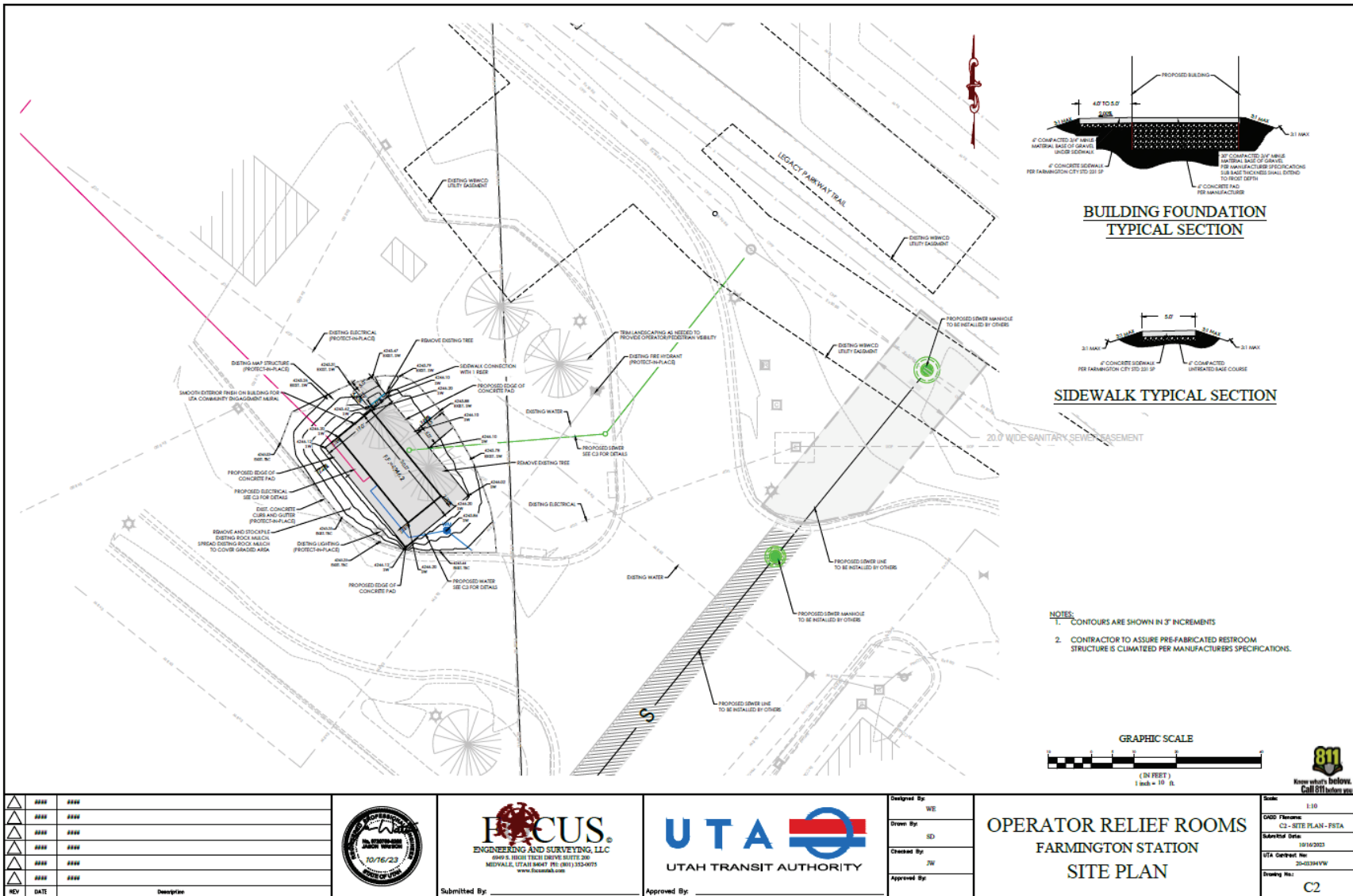
COMPANY NAME	CONTACT NAME	PHONE	EMAIL
BIGWATER BROADBAND	STEPHEN LIPPERTHE	435-837-6140	SLIPPERTHE@BIGWATER.UTAH.GOV
BRENCHLAND WATER (WASCO BASIN AREA)	SCOTT FARRELL	801-451-4106	SFARRELL@BRENCHLAND.WATER.UTAH.GOV
CASCADES - NORTHERN UT	JEFF HILGERTIN	435-224-2309	JEFF.HILGERTIN@CDM.BRENCHLAND.WATER.UTAH.GOV
CENTRAL DATA SERVICE CENTER	MIKA-ANN SELL	801-941-4106	MIKA-ANN.SELL@UTA.UTAH.GOV
CENTRUM LINK LOCAL NETWORK	ROBERT VIEHL	801-534-6268	ROBERT.VIEHL@CENTRUMLINK.COM
FARMINGTON CITY	MIK WASHINGTON	801-451-2824	MIK.WASHINGTON@FARMINGTON.UTAH.GOV
FERTILITY AND TELECOM	BRANTON DALMOPH	801-459-1940	BRANTON.DALMOPH@FERTILITY.COM
HULLY SENEZOT PARTNERS	IAN AYDIE HUST	435-239-0670	IAN.AYDIE@HULLYSENZOT.COM
PHILLIPS 66 PIPELINE LLP	COLT FARLEY	801-299-9626	COLT.FARLEY@PHILLIPS66.COM
BONNIN ENERGY	801-324-3070		
BONNIN MOUNTAIN POWER - LAYTON	JORIE SEMMONS	303-419-5600	
STORVICK NETWORKS			
UDOT BROADBAND	AUSTIN LAMBE	801-629-3036	ALAMBE@UDOT.UTAH.GOV
UTORFA	DIAPONG WU	801-619-5864	DIAPONG@UTORFA.UTAH.GOV



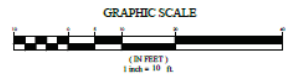
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Drawn By:	SD
Checked By:	JW
Approved By:	

**OPERATOR RELIEF ROOMS
FARMINGTON STATION
GENERAL NOTES**

Scale:	N/A
GIS Filename:	C1.1 - GENERAL NOTES - FSTA
Sheet# of #:	10/16/2023
UTS Control No.:	20-0394W
Drawing No.:	C1.1



- NOTES:**
1. CONTOURS ARE SHOWN IN 3" INCREMENTS
 2. CONTRACTOR TO ASSURE PRE-FABRICATED RESTROOM STRUCTURE IS CLIMATIZED PER MANUFACTURERS SPECIFICATIONS.



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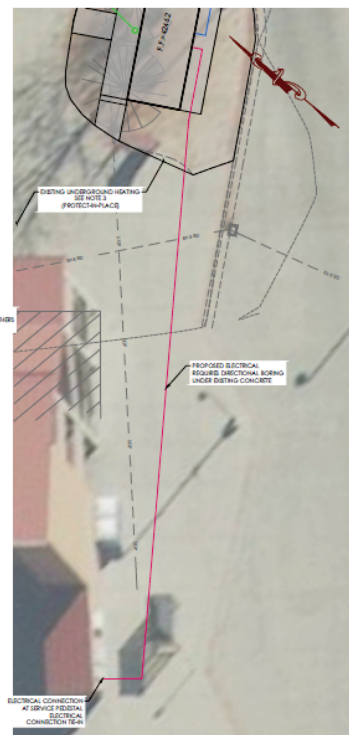
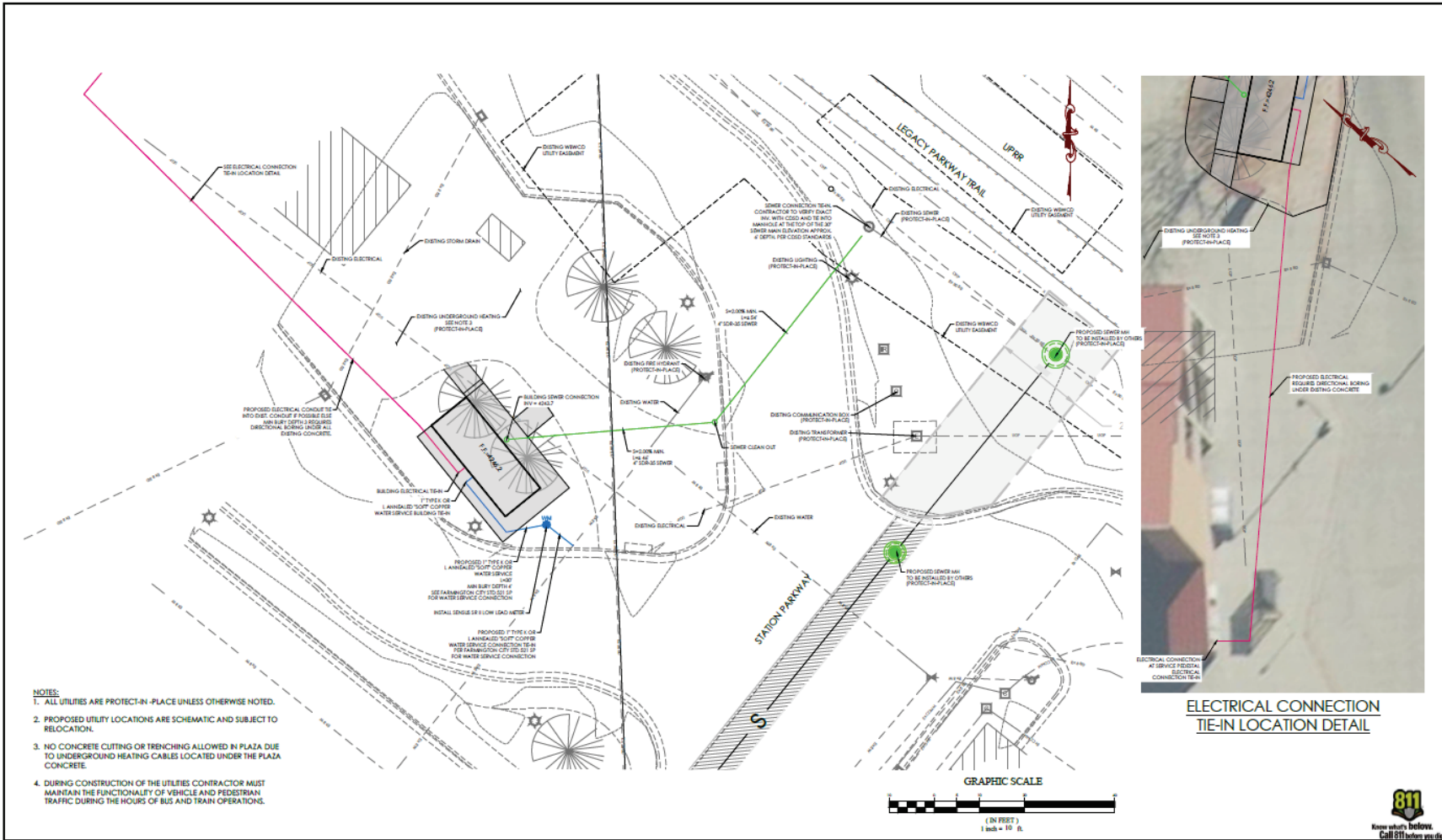
FOCUS
ENGINEERING AND SURVEYING, LLC
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MIDVALE, UTAH 84047 TEL: (801) 332-4075
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UTA
UTAH TRANSIT AUTHORITY

Designed By:	WE
Drawn By:	SD
Checked By:	ZW
Approved By:	

**OPERATOR RELIEF ROOMS
FARMINGTON STATION
SITE PLAN**

Scale:	1:10
GD&D File No.:	C3 - SITE PLAN - PSTA
Submitted Date:	10/16/2023
UTA Contract No.:	20-03394YW
Drawing No.:	C2



ELECTRICAL CONNECTION TIE-IN LOCATION DETAIL

- NOTES:**
1. ALL UTILITIES ARE PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
 2. PROPOSED UTILITY LOCATIONS ARE SCHEMATIC AND SUBJECT TO RELOCATION.
 3. NO CONCRETE CUTTING OR TRENCHING ALLOWED IN PLAZA DUE TO UNDERGROUND HEATING CABLES LOCATED UNDER THE PLAZA CONCRETE.
 4. DURING CONSTRUCTION OF THE UTILITIES CONTRACTOR MUST MAINTAIN THE FUNCTIONALITY OF VEHICLE AND PEDESTRIAN TRAFFIC DURING THE HOURS OF BUS AND TRAIN OPERATIONS.

REV	DATE	Description



FOCUS
ENGINEERING AND SURVEYING, LLC
6045 S. HIGH TECH DRIVE SUITE 200
MIDVALE, UTAH 84047 TEL: (801) 352-0075
www.focusnh.com



Designed By: WE
Drawn By: SD
Checked By: JW
Approved By:

**OPERATOR RELIEF ROOMS
FARMINGTON STATION
UTILITY PLAN**

Scale: 1:10
CDD Filename: C3-UTILITY PLAN - FSTA
Submitted Date: 10/16/2020
UTA Contract No: 20-03344YV
Drawing No: C3



OPERATOR RELIEF ROOMS

PREPARED FOR:
UTAH TRANSIT AUTHORITY
 LOCATED IN:
MURRAY, UT



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

Sheet List Table	
Sheet Number	Sheet Title
FARMINGTON STATION	
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C3	UTILITY PLAN
FASHION PLACE WEST STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
JORDAN VALLEY STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
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C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
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FORT UNION STATION	
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C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
C3.1	UTILITY PLAN
C3.2	UTILITY PLAN
APPENDIX	STANDARD DRAWINGS

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL ADHERE TO MURRAY CITY STANDARD PLANS AND SPECIFICATIONS.
- ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
- THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH D). IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION AS THERE MAY BE TEXT OR DETAILS THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.

NOTICE

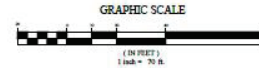
BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

ENGINEER'S NOTES TO CONTRACTOR

- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THIS CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS IF UTILITY LINES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE ENGINEER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- ALL CONTOUR LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH CONTOURS. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS GOVERN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILDOUT OF THE INTENDED IMPROVEMENTS.

CONTACTS

ENGINEER & SURVEYOR
 FOCUS ENGINEERING & SURVEYING, LLC
 8445 S. 15001 TRICH DRIVE SUITE 200
 MIDVALE, UT 84047
 (801) 552-0075
 PROJECT MANAGER: JASON WALTON
 SURVEY MANAGER: EVAN WOOD



REV	DATE	DESCRIPTION



FOCUS
 ENGINEERING AND SURVEYING, LLC
8445 S. 15001 TRICH DRIVE SUITE 200
 MIDVALE, UT 84047 TEL: (801) 552-0075
 www.focusllc.com

UTA
 UTAH TRANSIT AUTHORITY

Designed By:	WE
Drawn By:	ED
Checked By:	JW
Approved By:	

OPERATOR RELIEF ROOMS
FASHION PLACE WEST STATION
COVER SHEET

Scale: 1"=70'

CAD File Name: C1 - COVER - FPW

Submitted Date: 10/16/23

UTA Contract No: 20-03344VW

Drawing No: **C1**

COMPLIANCE

1. ALL WORK TO CONFORM TO UTA, UDOT, CITY, AND APWA STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS.
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

PERMITTING AND INSPECTIONS

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PAY FOR AND ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. UTA WILL PAY FOR IMPACT FEES.
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY, COUNTY, OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

COORDINATION AND VERIFICATION

1. ALL DIMENSIONS, GRADES AND UTILITY DEFSITIONS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT NOTICED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN DISCLOSED TO THE ATTENTION OF THE ENGINEER. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BEGIND AND BEING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
2. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL, SITE LIGHTING, AND ELECTRICAL SERVICE TO THE BUILDINGS, ETC., NOT SHOWN ON CIVIL PLANS.

SAFETY AND PROTECTION

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.
4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS, DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE, AND LIMITS OF TRENCH EXCAVATION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNERS FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
7. CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, FLASHERS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNING, BARRICADEING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL, ACCORDING TO GOVERNING AGENCY STANDARDS.
10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION, AND INSTALL A STORM WATER FILLUTION PREVENTION PLAN.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROTECTED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING RECESSES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURE TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE UTA SAFETY MANUAL.

MATERIALS

1. SITE CONCRETE SHALL BE A MINIMUM 4.5 BAQ MIX, 4000 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 1% TO 1% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATIONS.
- A. SLABS-ON-GRADE SHALL BE TYPICALLY SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT (DEEMED TO BE FIXED, CHANGES IN DIRECTION, AND AT EQUAL INTERVALS NOT TO EXCEED 30 FEET).
- B. CONCRETE WALLS SHALL BE CURBLED, MOWERS, CURBS AND GUTTER, ETC. WILL TYPICALLY BE SCORED (1/4 THE DEPTH) AT INTERVALS NOT TO EXCEED 12 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 10 FEET.
- C. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 6" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
- D. UNLESS OTHERWISE NOTED, A 6" LAYER OF PORTLAND CEMENT CONCRETE 6" FOR BUS TRAFFIC AREAS) SHALL BE PLACED OVER A MINIMUM OF 6" UNTRAINED ROAD BASE OVER A WELL COMPACTED 10% SUBGRADE. (UNTRAINED ROAD SHALL BE PLACED OVER 10% ROAD BASE OVER 10" OF GRANULAR SUBGRADE OVER A TENSAT TX 160 GROUND OR AN APPROVED EQUIVALENT) OVER PROPERLY PREPARED AND COMPACTED 10% SUBGRADE FOR BUS TRAFFIC, UNLESS OTHERWISE NOTED. SEE SPECIFICATION.
- E. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED, ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "GREEN".
- F. ALL JOINTS (CONTRACT, CONSTRUCTION, OR EXPANSION, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATIONS).
- G. ASPHALT CONCRETE PAVEMENT TO BE CONSTRUCTED PER MURRAY CITY STANDARDS. SEE ADA ACCESS SIDEWALK RAMP STANDARD DRAWING C-1.

2. ASPHALT CONCRETE PAVEMENT SHALL BE A MINIMUM 1" OVER 8" OF COMPACTED 10% ROAD BASE OVER 8" GRANULAR ROADWORE PROPERLY PREPARED AND COMPACTED 10% SUBGRADE FOR CAR TRAFFIC, AND A MINIMUM 1" ASPHALT CONCRETE OVER 8" OF COMPACTED 10% ROAD BASE OVER 10" OF GRANULAR ROADWORE OVER A TENSAT TX 160 GROUND OR AN APPROVED EQUIVALENT) OVER PROPERLY PREPARED AND COMPACTED 10% SUBGRADE FOR BUS TRAFFIC, UNLESS OTHERWISE NOTED. SEE SPECIFICATION.
- A. ASPHALT CONCRETE SHALL BE A MINIMUM 90% MARSHALL DENSITY.
- B. REPAIR COARSE SHALL BE 1/2" MIN. MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
- C. ASPHALT CONCRETE PAVEMENT TO BE A 1/4" ABOVE LIP OF ALL GUTTER (EXCEPT SIDE AND COLLAR CURB) AFTER COMPACTION.
- D. THICKNESS OVER 2" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 3/4" MINUS DESIGN.
- E. REFER TO MURRAY STANDARD DRAWING C-4 AND C-7 FOR DETAILS ON ROADWAY PAVEMENT REPLACEMENT IN SAWCUT AREAS AND FOR TRENCH BACKFILL DETAILS.

UTILITIES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THESE FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO VERIFY BY POT-HOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK FORCE.
3. CONTRACTOR MUST STAY AT LOW END OF ALL NEW GRAFTY UTILITY LINES. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM OF 30 FEET AHEAD. PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGNED PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE, REQUIRING FIELD VERIFICATION.
5. FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
6. STORM DRAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
7. ALL STORM DRAIN LINES AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
8. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUDED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
9. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
10. ALL STORM DRAIN AND SEWER CONDUITS, MANHOLES, AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DEBRIS, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
11. CONTRACTOR IS RESPONSIBLE FOR THE COST AND SCHEDULING OF REQUIRED UTILITIES TO THE PROJECT.

AMERICANS WITH DISABILITIES ACT

1. PEDESTRIAN ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - ROUTES SHALL HAVE A 2.0% (+/-) MAXIMUM CROSS SLOPE.
 - ROUTES SHALL HAVE A 5.0% (+/-) MAXIMUM MAXIMUM SLOPE.
 - RAMPS SHALL HAVE A 8.3% (+/-) MAXIMUM SLOPE.
2. ADA PAVING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.0% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
3. THE CONTRACTOR SHALL ADDRESS TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY CONSTRUCTION.

GRADING/SOIL

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED 95% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D-1557, EXCEPT UNDER BUILDING FOUNDATIONS WHERE IT SHALL BE 90% MINIMUM OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 1% BELOW OPTIMUM.
3. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. OR FILL WITH FLOOR FILL AS DETERMINED BY THE ENGINEER.
4. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTION AND REVIEW OF WORK.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING BUT NOT LIMITED TO TRAFFIC AND SHORING, TRAFFIC CONTROL, AND SECURITY.
3. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
4. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS OF UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION.
5. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM 100 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONFLICTS WITH DESIGN PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POT-HOLE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO OWNER.
6. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (E.G. PIPES, STRUCTURES, ETC.) EXISTING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.
7. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL AND NOTIFY ENGINEER OF ANY PROBLEMS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN OR RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EMISSION CONTROL, 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT, UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER.
10. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST AND SCHEDULING OF ALL QUALITY CONTROL INSPECTIONS, TESTING, AND SAMPLING AS OUTLINED IN THE PROJECT SPECIFICATIONS.
11. UTA WILL PROVIDE QUALITY ASSURANCE FOR PROJECT.

UTILITY CONTACTS

COMPANY NAME	CONTACT NAME	PHONE	EMAIL
COVARIANT - NORTHERN UT	JEFF HOUVRON	435-534-0365	JEFF.HOUVRON@COVARIANT.UT
CENTURYLINK LOCAL NETWORK	BOBBIE VIGIL	801-228-0455	BOBBIE.VIGIL@CENTURYLINK.COM
CANADIAN VALLEY WATER CO. D	JARRETT COOPER	801-699-4300	JARRETT@CVWATER.UT
MURRAY CITY POWER	MATT McQUESTEN	801-279-2451	MATT.MCQUESTEN@MURRAY.UTAH.GOV
MURRAY CITY SEWER	MATT McQUESTEN	801-279-2451	MATT.MCQUESTEN@MURRAY.UTAH.GOV
MURRAY CITY STORM WATER DEPARTMENT	STEVE KAPLANA	801-279-2442	STEVE.KAPLANA@MURRAY.UTAH.GOV
MURRAY CITY WATER	MATT McQUESTEN	801-279-2451	MATT.MCQUESTEN@MURRAY.UTAH.GOV
BIRMINGHAM ENERGY		801-524-0570	
STRETSIA NETWORK		800-454-7211	
UTAH REGION 1	GOLDYNN HOLT	801-882-0405	HOLT@UTAHREGION1.UTAH.GOV
UTOPIA	SHANTONG WU	801-613-0854	SHANTONG.WU@UTOPIA.UTAH.GOV
SAVO FIBER	STYLAN STEWART	801-608-7308	STYLAN.STEWART@SAVO.UTAH.GOV

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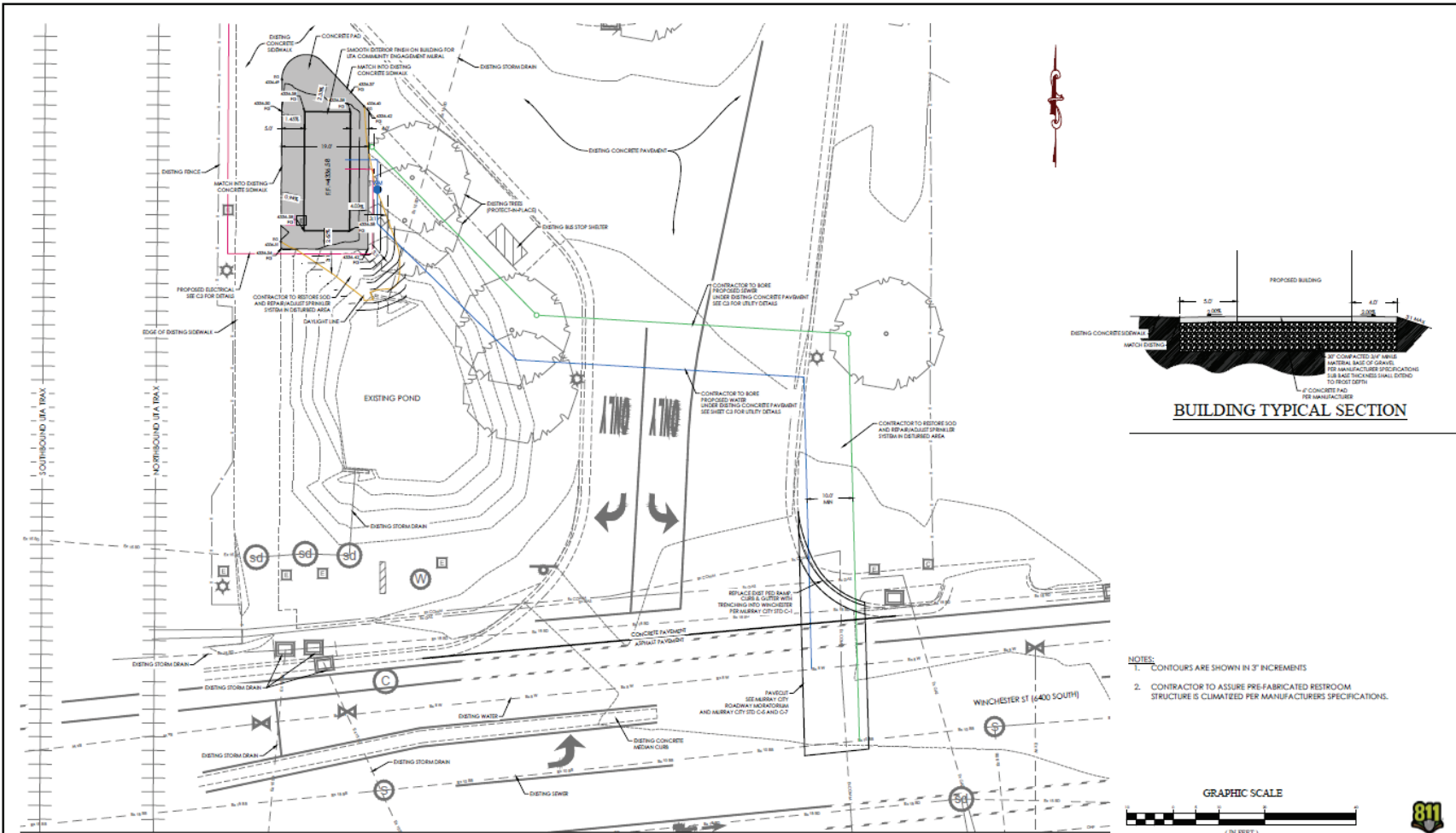
FOCUS
ENGINEERING AND SURVEYING, LLC
8669 S. IRVIN TRAIL DRIVE SUITE 200 WEST
MIDVALE, UT 84047 PH: (801) 950-1507
www.focusub.com

UTAH TRANSIT AUTHORITY

Designed by WE
Drawn by SD
Checked by JW
Approved by

**OPERATOR RELIEF ROOMS
FASHION PLACE WEST STATION
GENERAL NOTES**

Scale: N/A
CADD Filename: C1.1 - GENERAL NOTES - FPW
Submitted Date: 10/16/23
UTAH Contract No.: 20-03547W
Drawing No.: C1.1



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FOCUS
 ENGINEERING AND SURVEYING, LLC
 1000 S. 1000 E. SUITE 2000, WEST VALLEY, UT 84115
 MED VALLEY, UT 84115
 www.focusllc.com

Submitted By:

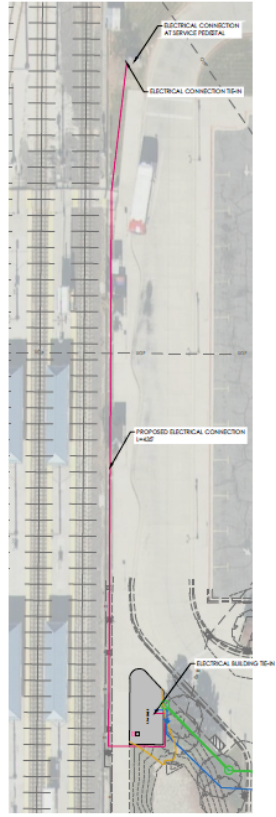
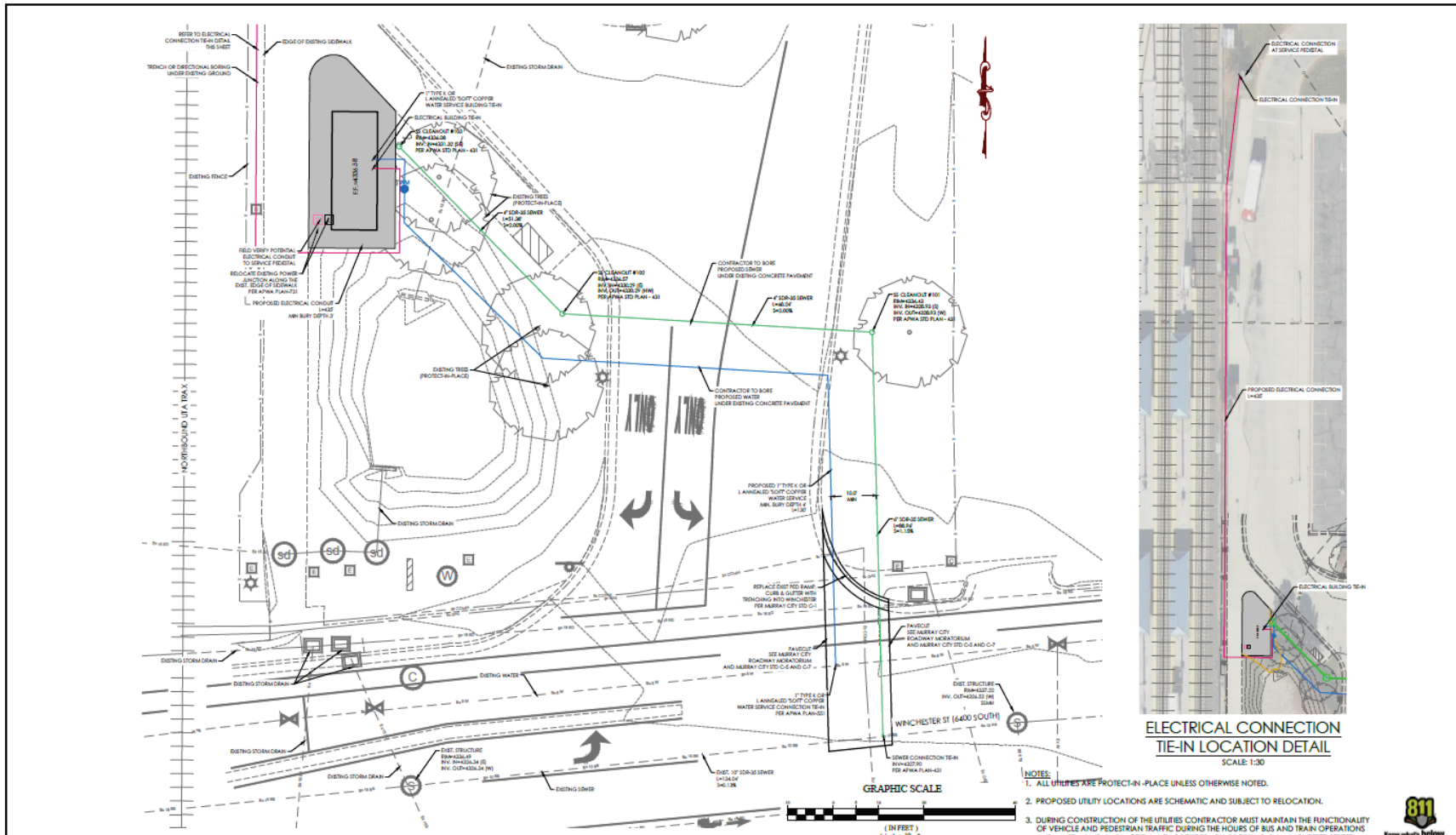
UTA
 UTAH TRANSIT AUTHORITY

Approved By:

Designed By:	WE
Drawn By:	SD
Checked By:	JW
Approved By:	

**OPERATOR RELIEF ROOMS
 FASHION PLACE WEST STATION
 SITE PLAN**

Scale:	1:10
GDG Filename:	C2 - SITE PLAN - FFW
Sheet# of Date:	10/16/2023
UTA Contact No.:	20-03394FW
Drawing No.:	C2



ELECTRICAL CONNECTION TIE-IN LOCATION DETAIL
SCALE: 1:30

- NOTES:**
1. ALL UTILITIES ARE PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
 2. PROPOSED UTILITY LOCATIONS ARE SCHEMATIC AND SUBJECT TO RELOCATION.
 3. DURING CONSTRUCTION OF THE UTILITIES CONTRACTOR MUST MAINTAIN THE FUNCTIONALITY OF VEHICLE AND PEDESTRIAN TRAFFIC DURING THE HOURS OF BUS AND TRAIN OPERATIONS AND MUST MAINTAIN FUNCTIONALITY OF THE TRACK CROSSING ON WINCHESTER STREET.



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FOCUS
ENGINEERING AND SURVEYING, LLC
400 S. WEST TRAIL DRIVE, SUITE 200
MIDVALE, UTAH 84047 TEL: (801) 333-0075
www.focusnh.com



Designed By: WE
Drawn By: SD
Checked By: JW
Approved By:

**OPERATOR RELIEF ROOMS
FASHION PLACE WEST STATION
UTILITY PLAN**

Scale: 1:30
CADD Filename: C3 - UTILITY PLAN - FPW
Submit Date: 10/16/2023
UTAH Contract No.: 20-03194YV
Drawing No.: C3

OPERATOR RELIEF ROOMS

PREPARED FOR:
UTAH TRANSIT AUTHORITY
 LOCATED IN:
WEST JORDAN, UT



VICINITY MAP
NOT TO SCALE



SITE MAP
NOT TO SCALE

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. ALL CONSTRUCTION SHALL ADHERE TO WEST JORDAN CITY STANDARD PLANS AND SPECIFICATIONS.
4. ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER METHOD OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
5. THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH D). IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION, AS THERE MAY BE TEXT OR DETAIL THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.

NOTICE

BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

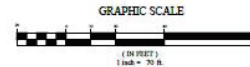
ENGINEER'S NOTES TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONCRETE OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONCRETE OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS, IF UTILITIES ARE ENCOUNTERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTIES, THAT THE CONTRACTOR SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FOR ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
4. ALL CONTROL LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTROLLED BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH LINESWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTROL IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. MOST ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THESE DRAWINGS COVER ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPLORE AND ADJUSTMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILDOUT OF THE INTENDED IMPROVEMENTS.

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APPENDIX	STANDARD DRAWINGS

CONTACTS

ENGINEER & SURVEYOR
 FOCUS ENGINEERING & SURVEYING, LLC
 6945 E 8301 TRAIL DRIVE SUITE 200
 MIDVALE, UTAH 84047
 (801) 352-9775
 PROJECT MANAGER: JASON WATSON
 SURVEY MANAGER: EVAN WOOD



REV	DATE	DESCRIPTION



Submitted By: _____



Approved By: _____

Designed By:	WE
Drawn By:	SD
Checked By:	FW
Approved By:	

OPERATOR RELIEF ROOMS
JORDAN VALLEY STATION
COVER SHEET

Scale:	
CADD File name:	XXXX
Issued Date:	01/16/2023
UTA Contract No.:	20-03344VM
Drawing No.:	C1

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COMPLIANCE

1. ALL WORK TO CONFORM TO UTA, IDOT, CITY, AND APWA STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), INTERNATIONAL PLUMBING CODE, STATE DRINKING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS.
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

PERMITTING AND INSPECTIONS

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PAY FOR AND ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. UTA WILL PAY FOR IMPACT FEES.
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUESTING OBSERVATION.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY, COUNTY, OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

COORDINATION AND VERIFICATION

1. ALL DIMENSIONS, GRADES AND UTILITY DEPTHS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE DRAWNER.
2. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BEGIND UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
3. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL, SITE LIGHTING, AND ELECTRICAL SERVICE TO THE BUILDINGS, ETC., NOT SHOWN ON CIVIL PLANS.

SAFETY AND PROTECTION

1. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHIELDING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.
4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES BUT IS NOT LIMITED TO VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE, AND LIMITS OF TRENCH EXCAVATION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNERS FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
7. CONTRACTOR SHALL PROVIDE BARRIERS, SIGNS, FLAGMENS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SIGNALING, BARRICADEING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNMENT AGENCY STANDARDS.
10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION, AND SURFACE STORM WATER POLLUTION PREVENTION PLAN.
11. WORK IN PUBLIC STREETS, ONCE BEGINS, SHALL BE PROTECTED TO COMPLETION WITHOUT DELAY AS TO MAINTAIN MINIMUM WATER FLOW IN PREVENTION FLEAK.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER/OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE UTA SAFETY MANUAL.

MATERIALS

1. SITE CONCRETE SHALL BE A MINIMUM 6.5 BAG MIX, 4060 F.S.I @ 28 DAYS, 4" MAXIMUM SLUMP WITH 3% TO 7% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATIONS.
- A. SLABS-ON-GRADE WILL BE TYPICALLY SCHEDULED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCHEDULING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT (DEEMED) TO BE FIXED, CHANGES IN DIRECTION, AND AT EQUAL INTERVALS NOT TO EXCEED 50 FEET.
- B. CONCRETE REINFORCING CURRALS, MONOTRIPS, CURB AND GUTTER, ETC. WILL TYPICALLY BE SCHEDULED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED 12 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT EQUAL SPACING NOT TO EXCEED 12 FEET.
- C. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 4" TURNED-UP EDGE TO HELP CONTROL FROST HEAVE.
- D. UNLESS OTHERWISE NOTED, A 6" LAYER OF PORTLAND CEMENT CONCRETE (4" FOR BUS TRAFFIC AREAS) SHALL BE PLACED OVER A MINIMUM OF 4" UNTRACED ROAD BASE OVER A WELL COMPACTED 2% SUBGRADE. UNTRACED ROAD BASE SHALL BE PLACED AGAINST ANY OBJECT (DEEMED) TO BE FIXED. EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED ANY "PLASTERED" FINISH OF NEW CONCRETE WILL BE DONE WITH IT. "BROOM" FINISH.
- E. ALL JOINTS (CONTRACT, CONSTRUCTION, OR EXPANSION, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT (SEE SPECIFICATIONS).

2. ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 4" OVER 10" OF COMPACTED (95%) ROAD BASE OVER 4" GRANULAR BORROW OVER PROPERLY PREPARED AND COMPACTED (95%) SUBGRADE FOR CAR TRAFFIC, AND A MINIMUM 2" ASPHALTIC CONCRETE OVER 4" OF COMPACTED (95%) ROAD BASE OVER 10" OF GRANULAR BORROW OVER A TENSAT TX 160 (SCHEDULED FOR AN APPROVED EQUIVALENT) OVER PROPERLY PREPARED AND COMPACTED (95%) SUBGRADE FOR BUS TRAFFIC, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
- A. ASPHALT CONSTRUCTION SHALL BE A MINIMUM 95% MARSHALL DESIGN.
- B. ASPHALT COURSE SHALL BE 1/2" MINUS MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
- C. ASPHALT CONSTRUCTION PAYMENT TO BE A 1/4" ABOVE LIP OF ALL OUTER (EXCEPT SPILL AND COLLAR CURB) AFTER COMPACTION.
- D. TRENCHES OVER 10" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 5/8" MINUS DESIGN.
- E. SEE WEST JORDAN CITY STANDARD DRAWING RD075 FOR STANDARD TRENCH EXCAVATION CONSTRUCTION.
- F. SEE WEST JORDAN CITY STANDARD DRAWING RD020 FOR STANDARD SIDEWALK DETAILS.

UTILITIES

1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH BLUE STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. CONTRACTOR TO VERIFY BY POTHOLES BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE UTILITIES CAUSED BY THEIR WORK FORCE.
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLES AT A MINIMUM OF 30 FEET AHEAD. PIPELINE CONSTRUCTION TO AVOID CONTACTS WITH EXISTING PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSUMED AS APPROXIMATE. EXCESSIVE TRENCH DEPTH.
5. FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNMENT MUNICIPALITY STANDARD AND SPECIFICATIONS.
6. STORM DRAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
7. ALL STORM DRAIN LINES AND IRRIGATION CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
8. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED SMOOTH WITH A NON-SHRINK GROUT ON THE INSIDE. CONCRETS SHALL BE CUT OFF FLESH WITH THE INSIDE OF THE BOX.
9. NO CHANGE IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
10. ALL STORM DRAIN AND SEWER CONDUITS, MANHOLES, AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DEBRIS, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
11. CONTRACTOR IS RESPONSIBLE FOR THE COST AND SCHEDULING OF REQUIRED UTILITIES TO THE PROJECT.
12. ALL WATER LINES SHALL BE INSTALLED PER WEST JORDAN CITY STANDARDS. SEE STANDARD DRAWING SS-108 FOR WATER LATERAL DETAILS.
13. ALL SEWER LINES SHALL BE INSTALLED PER WEST JORDAN CITY STANDARDS. SEE STANDARD DRAWING SS-405 FOR SEWER LATERAL DETAILS.

AMERICANS WITH DISABILITIES ACT

1. PEDESTRIAN ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
 - ROUTES SHALL HAVE A 2.0% (1:50) MAXIMUM CROSS SLOPE.
 - ROUTES SHALL HAVE A 5.0% (1:20) MAXIMUM SLOPE.
 - RAMPS SHALL HAVE A 1:12 (1:12) MAXIMUM SLOPE.
2. ADA PARKING SPACES AND ADJACENT ROUTES SHALL HAVE A 2.0% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
3. THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY CONSTRUCTION.

GRADING/SOIL

1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
1. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED 95% OF MODIFIED PROCTOR MAXIMUM DENSITY. PER ASTM TEST D1557, EXCEPT UNDER BUILDING FOOTINGS WHERE IT SHALL BE 98% MINIMUM OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR BELOW OPTIMUM.
3. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. OR FILLING WITH FLOWABLE FILL AS DETERMINED BY THE ENGINEER.
4. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.
5. SITE STABILIZATION METHODS SHALL BE USED TO PROTECT EXISTING UNDERGROUND UTILITIES. METALS IS REQUIRED PRIOR TO CONSTRUCTION FOR ALL PERSONS INVOLVED IN SOIL DISTURBANCE ACTIVITIES. THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION OF A FACILITY. CONSTRUCTION MUST COMPLY WITH THE SOIL MANAGEMENT PLAN. SOIL BELOW THE SITE ACTION LEVEL COULD BE RETURNED TO THE EXCAVATION OR DISPOSED OFFSITE AT AN APPROVED DISPOSAL FACILITY. SOIL AT OR ABOVE THE SITE ACTION LEVEL MUST BE DISPOSED OFFSITE AT AN APPROVED DISPOSAL FACILITY. SITE WILL HAVE A ZERO DUST GOAL. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST AND STORMWATER RUNOFFS.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTION AND REVIEW OF WORK.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING BUT NOT LIMITED TO TRENCHING AND SHIELDING, TRAFFIC CONTROL, AND SECURITY.
3. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
4. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS OF UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION.
5. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POTHOLES A MINIMUM 100 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONTACTS WITH EXISTING PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTOR'S NEGLIGENCE TO POTHOLE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO OWNER.
6. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (E PIPES, STRUCTURES, ETC.) DURING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.
7. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL AND NOTIFY ENGINEER OF ANY PROBLEMS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN OR RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EROSION CONTROL 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT. UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER.
10. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST AND SCHEDULING OF ALL QUALITY CONTROL, INSPECTIONS, TESTING, AND SAMPLING AS OUTLINED IN THE PROJECT SPECIFICATIONS.
11. UTA WILL PROVIDE QUALITY ASSURANCE FOR PROJECT.

UTILITY CONTACTS

COMPANY NAME	CONTACT NAME	PHONE	EMAIL
COMPACT - NORTHERN UT	JEFF HOUSTON	435-514-6500	JEFF.HOUSTON@CTE1.UTAH.GOV
CENTURYLINK LOCAL NETWORK	ROBERT VIEL	801-248-0535	ROBERT.VIEL@CENTURYLINK.COM
DAYBREAK SECONDARY WATER CO	ROTH HANSEN	801-278-9600	ROTH@DAYBREAKWATER.COM
JORDAN VALLEY WATER CO	LARRY COWLES	801-955-1895	LARRY@JVALLEYWATER.CO
VERIZON FIBERLESS-UCT		800-942-9675	8009429675@VERIZON.COM
BONNISON ENERGY		801-354-9070	
BOCKY MOUNTAIN POWER	JORL REDMONS	303-819-7680	
STEDINA NETWORKS		800-484-2114	
TILEON TECHNOLOGY MANAGEMENT	HLAUR CHILL	801-554-8632	HLAUR@TILEONTECH.COM
UTCPA	SHAOYING WU	801-919-2884	SHAOYING@UTCPA.ORG
WEST JORDAN CITY	BLUNT HUTCHINGS	801-969-9116	BLUNT.HUTCHINGS@WESTJORDAN.UTAH.GOV

NO	DATE	DESCRIPTION



FOCUS


ENGINEERING AND SURVEYING, LLC
4004 LINDEN DRIVE SUITE 200
MIDVALE, UTAH 84047 TEL: (801) 353-0075
www.focusllc.com



UTAH TRANSIT AUTHORITY

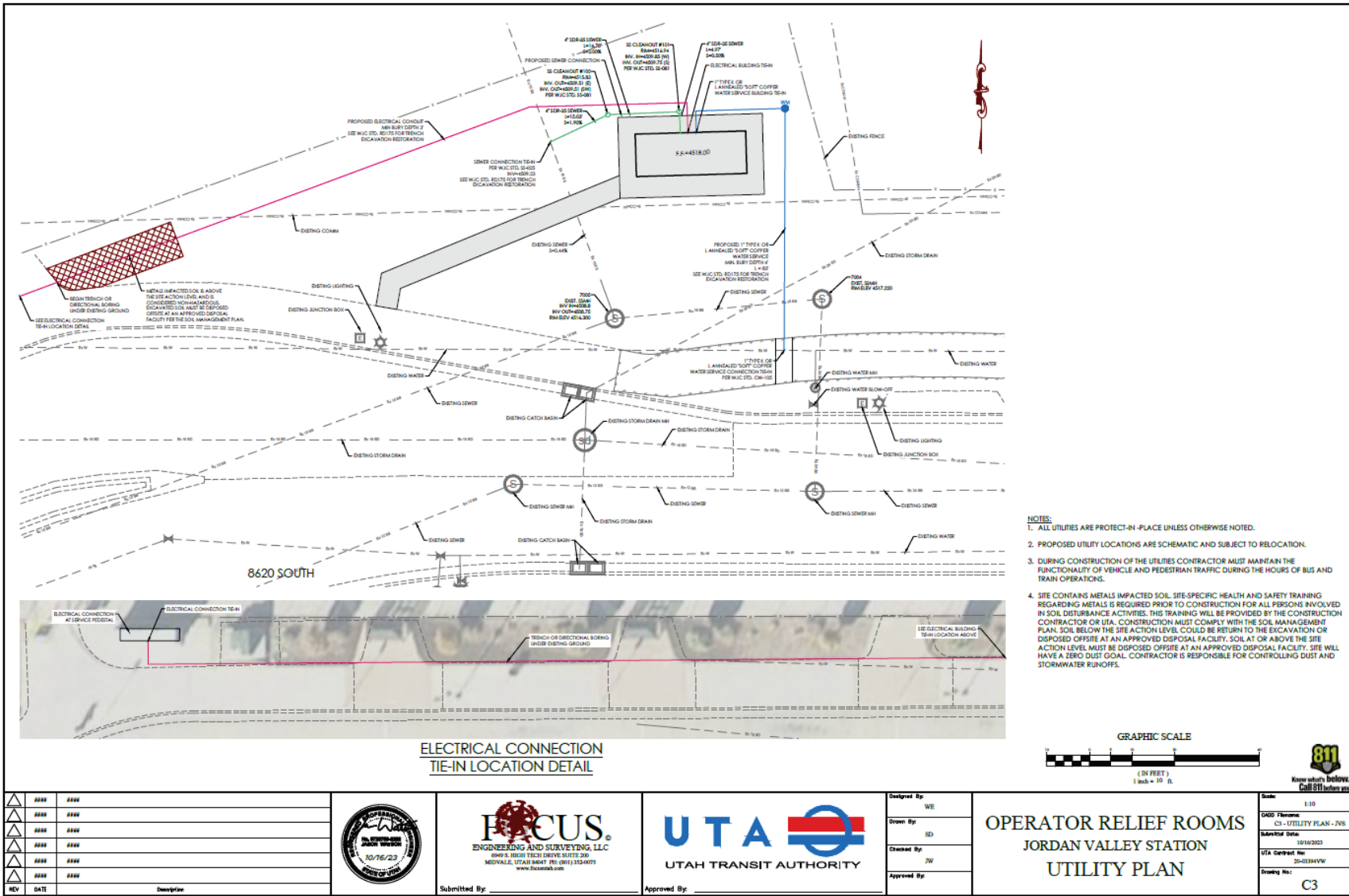
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Drawn by:	SD
Checked by:	JW
Approved by:	

OPERATOR RELIEF ROOMS
JORDAN VALLEY STATION
GENERAL NOTES



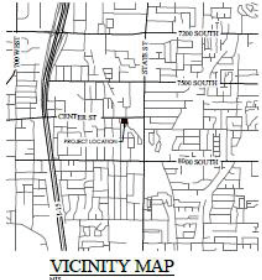
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Submitted Date:	10/16/2023
UTP Control No.:	20-033494W
Drawing No.:	C1.1



OPERATOR RELIEF ROOMS

PREPARED FOR:
UTAH TRANSIT AUTHORITY
 LOCATED IN:
MIDVALE, UT



VICINITY MAP



SITE MAP

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APPENDIX	STANDARD DRAWINGS

GENERAL NOTES

1. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. ALL CONSTRUCTION SHALL ADHERE TO MIDVALE CITY STANDARD PLANS AND SPECIFICATIONS.
4. ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
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BEFORE PROCEEDING WITH THIS WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL CONDITIONS, QUANTITIES, DIMENSIONS, AND GRADE ELEVATIONS, AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER.

ENGINEER'S NOTES TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDISCOVERED UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS, TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN IN THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS. IF UTILITY LINES ARE DISCOVERED DURING CONSTRUCTION THAT ARE NOT IDENTIFIED BY THESE PLANS, CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
2. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE CITY, THE OWNER, AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
3. UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPAREE OF THESE PLANS.
4. ALL CONTOUR LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTOURS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH LINEWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTOURS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THE DESIGN DRAWINGS COVER ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILD-OUT OF THE INTENDED IMPROVEMENTS.

CONTACTS

ENGINEER & SURVEYOR
 FOCUS ENGINEERING & SURVEYING, LLC
 694 S. HIGH TECH DRIVE SUITE 200
 MIDVALE, UTAH 84047
 (801) 262-9777
 PROJECT MANAGER: JASON WATSON
 SURVEY MANAGER: EVAN WOOD



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REV	DATE	Description



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UTA
 UTAH TRANSIT AUTHORITY

Designed By:	WE
Drawn By:	SD
Checked By:	JW
Approved By:	

**OPERATOR RELIEF ROOMS
 MIDVALE CENTRAL STATION
 COVER SHEET**

Scale:	
CADD File no.:	XXXX
Submitted Date:	10/16/2023
UTA Contract No.:	26-0394VV
Drawing No.:	C1

COMPLIANCE

- 1. ALL WORK TO CONFORM TO UTA, IDOT, CITY, AND APWA STANDARDS, SPECIFICATIONS, AND REQUIREMENTS.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DOCUMENTS AND THE MOST RECENT, ADOPTED EDITIONS OF THE FOLLOWING: INTERNATIONAL BUILDING CODE (IBC), THE INTERNATIONAL PLUMBING CODE, STATE DRAINING WATER REGULATIONS, APWA MANUAL OF STANDARD PLANS AND SPECIFICATIONS.
3. ALL CONSTRUCTION SHALL BE AS SHOWN ON THESE PLANS. ANY REVISIONS MUST HAVE PRIOR WRITTEN APPROVAL. IF CONFLICTS ARE NOTED, CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO START OF CONSTRUCTION.

PERMITTING AND INSPECTIONS

- 1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PAY FOR AND ENSURE ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. UTA WILL PAY FOR IMPACT FEES.
2. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
3. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE CITY, COUNTY, OR STATE AGENCY CONTROLLING THE ROAD AND WITH APPROPRIATE INSPECTIONS.

COORDINATION AND VERIFICATION

- 1. ALL DIMENSIONS, GRADES AND UTILITY DEVIATIONS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS, IF NOT VERIFIED AND NOTIFICATION OF CONFLICTS HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING AND BRING UP ANY QUESTIONS BEFOREHAND. NO ALLOWANCE WILL BE MADE FOR DISCREPANCIES OR OMISSIONS THAT CAN BE EASILY OBSERVED.
2. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL, SITE LIGHTING, AND ELECTRICAL SERVICE TO THE BUILDINGS, ETC., NOT SHOWN ON CIVIL PLANS.
3. CONTRACTOR TO COORDINATE WITH ALL OTHER DISCIPLINES, INCLUDING BUT NOT LIMITED TO LANDSCAPE PLANS, SITE ELECTRICAL, SITE LIGHTING, AND ELECTRICAL SERVICE TO THE BUILDINGS, ETC., NOT SHOWN ON CIVIL PLANS.

SAFETY AND PROTECTION

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHOD OF CONSTRUCTION.
2. CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PROJECT AND SHALL MEET ALL OSHA REQUIREMENTS.
3. CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SCHEDULING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS AND PUBLIC.
4. CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE PROPERTY, ROADWAYS, AND UTILITY IMPROVEMENTS. DAMAGE TO EXISTING IMPROVEMENTS CAUSED BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THEIR OWN EXPENSE TO THE SATISFACTION OF THE OWNER OF SAID IMPROVEMENTS.
5. CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THEY INCLUDE, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE, AND LIMITS OF TRENCH EXCAVATION.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNMENT AGENCY AND/OR INDIVIDUAL PROPERTY OWNERS FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.
7. CONTRACTOR SHALL PROVIDE BARRIERS, SIGNS, FLAGMANS, OTHER EQUIPMENT AND FLAG PERSONS NECESSARY TO INSURE THE SAFETY OF WORKERS AND VISITORS. ALL CONSTRUCTION SCHEDULING, BRACING, AND TRAFFIC DELINEATION SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" LATEST EDITION.
8. CONTRACTOR SHALL COMPLY WITH LOCAL NOISE ORDINANCE STANDARDS.
9. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO GOVERNING AGENCY STANDARDS.
10. CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY AND ALL WORK IN CONNECTION WITH CONSTRUCTION, AND SURFACE STORM WATER POLLUTION PREVENTION PLAN.
11. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE PROHIBITED TO COMPLETION WITHOUT DELAY AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND THE TRAVELING PUBLIC.
12. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITIONS BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND FOR INGRESS AND EGRESS TO NEW CONSTRUCTION.
13. NATURAL VEGETATION AND SOIL COVER SHALL NOT BE DISTURBED PRIOR TO ACTUAL CONSTRUCTION OF A REQUIRED FACILITY OR IMPROVEMENT. MASS CLEARING OF THE SITE IN ANTICIPATION OF CONSTRUCTION SHALL BE AVOIDED. CONSTRUCTION TRAFFIC SHALL BE LIMITED TO ONE APPROACH TO THE SITE. THE APPROACH SHALL BE DESIGNATED BY THE OWNER OR GOVERNING AGENCY.
14. THE CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PROTECT EXISTING IMPROVEMENTS FROM DAMAGE AND ALL SUCH IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR RECONSTRUCTED TO THE ENGINEER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL REVIEW AND COMPLY WITH THE UTA SAFETY MANUAL.

MATERIALS

- 1. SITE CONCRETE SHALL BE A MINIMUM 6.5 BAG MIX, 4060 P.S.I. @ 28 DAYS, 4" MAXIMUM SLUMP WITH 3% TO 7% AIR ENTRAINMENT, UNLESS SPECIFIED OTHERWISE. SEE SPECIFICATIONS.
A. SLABS-ON-GRADE WILL BE TYPICALLY SCHEDULED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED THEIR WIDTH OR 12 TIMES THEIR DEPTH, WHICHEVER IS LESS. SCORING WILL BE PLACED TO PREVENT RANDOM CRACKING. FULL DEPTH EXPANSION JOINTS WILL BE PLACED AGAINST ANY OBJECT DEEMED TO BE FIXED, CHANGES IN DIRECTION, AND AT JOINT INTERVALS NOT TO EXCEED 50 FEET.
B. CONCRETE SHALL BE PLACED AND FINISHED AT INTERVALS NOT TO EXCEED 10 FEET. IT WILL TYPICALLY BE SCHEDULED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED 12 FEET AND HAVE FULL DEPTH EXPANSION JOINTS AT JOINT INTERVALS NOT TO EXCEED 30 FEET.
C. UNLESS OTHERWISE NOTED, ALL SLABS-ON-GRADE WILL HAVE A MINIMUM 6" TURNED-DOWN EDGE TO HELP CONTROL FROST HEAVE.
D. UNLESS OTHERWISE NOTED, A 6" LAYER OF PORTLAND CEMENT CONCRETE (4" FOR BUS TRAFFIC AREAS) SHALL BE PLACED OVER A MINIMUM OF 6" UNTRAINED ROAD BASE OVER A WELL COMPACTED 10% SUBGRADE. UNTRAINED ROAD BASE SHALL BE SCHEDULED (14 THE DEPTH) AT INTERVALS NOT TO EXCEED 10 FEET. ALL EXPOSED SURFACES WILL HAVE A TEXTURED FINISH, RUBBED OR BROOMED ANY "PLASTERING" OF NEW CONCRETE WILL BE DONE WHILE IT IS STILL "WET".
E. ALL JOINTS (CONTROL, CONSTRUCTION, OR EXPANSION, ETC.) WILL BE SEALED WITH A ONE PART POLYURETHANE SEALANT SEE SPECIFICATIONS.
G. CONCRETE SHALL MEET ALL THE SPECIFICATIONS FOR BUS TRAFFIC.
G. CONCRETE SHALL MEET ALL THE SPECIFICATIONS FOR BUS TRAFFIC.

- 2. ASPHALTIC CONCRETE PAVEMENT SHALL BE A MINIMUM 7" OVER 8" OF COMPACTED (90% ROAD BASE OVER 10% GRANULAR SUBGRADE OVER 10% GRANULAR SUBGRADE) OR AN APPROVED EQUIVALENT) OVER PROPERLY PREPARED AND COMPACTED (90% SUBGRADE FOR BUS TRAFFIC, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS.
A. ASPHALT CONCRETE SHALL BE A MINIMUM 90% (MARSHALL DESIGN).
B. SURFACE COURSE SHALL BE 1/2" MINUS MIX DESIGN TO BE SUBMITTED FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO ANTICIPATED PAVING SCHEDULE.
C. ASPHALT CONCRETE PAVEMENT TO BE A 1/4" ABOVE LIP OF ALL GUTTER (EXCEPT FLEET AND COLLAR CURB) AFTER COMPACTION.
D. THICKNESS OVER 2" WILL BE LAID IN TWO LIFTS WITH THE FIRST LIFT BEING AN APPROVED 3/4" MINUS DESIGN.

UTILITIES

- 1. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES EITHER DIRECT OR THROUGH THEIR STAKE TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION.
2. THE CONTRACTOR TO VERIFY BY POT-HOLING BOTH THE VERTICAL AND HORIZONTAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLING ANY NEW LINES. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK.
3. CONTRACTOR MUST START AT LOW END OF ALL NEW GRAVITY UTILITY LINES. NO EXTRA COMPENSATION IS TO BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO FAILURE TO COMPLY WITH THESE REQUIREMENTS.
4. CONTRACTOR IS TO VERIFY LOCATION, DEPTH, SIZE, TYPE, AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM OF 300 FEET AHEAD, PIPELINE CONSTRUCTION TO AVOID CONTACTS WITH DESIGNING PIPELINE GRADE AND ALIGNMENT. EXISTING UTILITY INFORMATION SHOWN ON PLANS OR OBTAINED FROM UTILITY COMPANIES OR BLUE STAKED MUST BE ASSESSED AS APPROPRIATE. RECONSTRUCT FIELD VERIFICATION.
5. FIRE SERVICE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH LOCAL GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
6. STORM DRAIN TO BE CONSTRUCTED IN ACCORDANCE WITH THE GOVERNING MUNICIPALITY STANDARDS AND SPECIFICATIONS.
7. ALL STORM DRAIN LINES AND DRAINAGE CONDUITS SHALL BE INSTALLED WITH WATER TIGHT JOINTS AND CONNECTIONS.
8. ALL STORM DRAIN PIPE PENETRATIONS INTO BOXES SHALL BE CONSTRUCTED WITH WATER TIGHT SEALS ON THE OUTSIDE AND GROUTED BENEATH WITH A NON-SHREKING GROUT ON THE INSIDE. CONDUITS SHALL BE CUT OFF FLUSH WITH THE INSIDE OF THE BOX.
9. NO CHANGES IN THE DESIGN OF UTILITIES AS SHOWN WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF THE GOVERNING MUNICIPALITY, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.
10. ALL STORM DRAIN AND SEWER CONDUITS, MANHOLES, AND BOXES SHALL BE CLEAN AND FREE OF ROCKS, DEET, AND CONSTRUCTION DEBRIS PRIOR TO FINAL INSPECTION.
11. CONTRACTOR IS RESPONSIBLE FOR THE COST AND SCHEDULING OF REQUIRED UTILITIES TO THE PROJECT.
12. ALL WATER LINES SHALL BE INSTALLED PER MIDVALE CITY STANDARDS.
13. ALL SEWER LINES SHALL BE INSTALLED PER MIDVALE CITY STANDARDS.

AMERICANS WITH DISABILITIES ACT

- 1. PREEXISTING ADA ROUTES SHALL MEET THE FOLLOWING SPECIFICATIONS:
- ROUTES SHALL HAVE A 2.0% (+/-0.150) MAXIMUM CROSS SLOPE.
- ROUTES SHALL HAVE A 5.0% (+/-0.20) MAXIMUM SIDE SLOPE.
- RAMPS SHALL HAVE A 1.5% (+/-0.12) MAXIMUM SIDE SLOPE.
2. ADA PARKING STALLS AND ADJACENT ROUTES SHALL HAVE A 2.0% MAXIMUM SURFACE SLOPE IN ANY DIRECTION.
3. THE CONTRACTOR SHALL ADHERE TO THE ABOVE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO ANY CONSTRUCTION.

GRADING/SOIL

- 1. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.
2. ALL EXCAVATED OR FILLED AREAS SHALL BE COMPACTED 90% OF MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM TEST D1557, EXCEPT UNDER FILLING LOCATIONS WHERE IT SHALL BE 98% MINIMUM OF MAXIMUM DENSITY. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE OR 2% BELOW OPTIMUM.
3. SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL UNDERGROUND TANKS, PIPES, VALVES, ETC. OR FILLING WITH FLOWABLE FILL AS DETERMINED BY THE ENGINEER.
4. ALL EXISTING VALVES, MANHOLES, ETC. SHALL BE RAISED OR LOWERED TO GRADE AS REQUIRED.

GENERAL CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL COORDINATE WITH ALL GOVERNING AGENCIES FOR ALL PERMITS AND BONDS REQUIRED FOR CONSTRUCTION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTION AND REVIEW OF WORK.
2. CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING BUT NOT LIMITED TO TRENCHING AND SHIELDING, TRAFFIC CONTROL, AND SECURITY.
3. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE "AS-BUILT" DRAWINGS THROUGHOUT THE PROJECT. THESE DRAWINGS SHALL BE PROVIDED TO THE OWNER UPON COMPLETION OF THE PROJECT.
4. CONTRACTOR IS CAUTIONED THAT THE LOCATION AND ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE DRAWINGS IS BASED ON RECORDS OF UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS EXACT OR COMPLETE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SERVICE LATERALS AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITY DURING CONSTRUCTION.
5. THE CONTRACTOR WILL VERIFY LOCATIONS OF UTILITIES IN THE FIELD BY POT-HOLING A MINIMUM 100 FEET AHEAD OF PIPELINE CONSTRUCTION TO AVOID CONTACTS WITH DESIGN PIPELINE GRADE AND ALIGNMENT. IF A CONFLICT ARISES RESULTING FROM THE CONTRACTORS NEGLIGENCE TO NOTIFY UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO RESOLVE THE CONFLICT WITHOUT ADDITIONAL COST OR CLAIM TO OWNER.
6. CONTRACTOR SHALL TAKE THE NECESSARY MEASURES TO PROTECT ALL FACILITIES (IE PIPES, STRUCTURES, ETC.) DURING CONSTRUCTION UNTIL THE DESIGN GRADE AND COVER HAS BEEN ATTAINED AND WORK HAS BEEN ACCEPTED.
7. CONTRACTOR SHALL VERIFY ALL EXISTING PROJECT MONUMENTS AND CONTROL AND NOTIFY ENGINEER OF ANY PROBLEMS PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL MAINTAIN OR RESTORE ALL MONUMENTS AND MONUMENT REFERENCE MARKS WITHIN THE PROJECT SITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST AND EROSION CONTROL 24 HOURS PER DAY UNTIL VEGETATION IS ESTABLISHED, AND MAINTAIN UNIMPEDED ACCESS ROAD MAINTENANCE IN ACCORDANCE WITH CITY STANDARDS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY TRAFFIC CONTROL DURING THE CONSTRUCTION OF THE PROJECT UNTIL WORK IS APPROVED AND ACCEPTED BY OWNER.
10. CONTRACTOR WILL BE RESPONSIBLE FOR THE COST AND SCHEDULING OF ALL QUALITY CONTROL INSPECTIONS, TESTS, AND SAMPLES AS OUTLINED IN THE PROJECT SPECIFICATIONS.
11. UTA WILL PROVIDE QUALITY ASSURANCE FOR PROJECT.

UTILITY CONTACTS

Table with 4 columns: COMPANY NAME, CONTACT NAME, PHONE, EMAIL. Includes contacts for UTA, Crown Central, City of Midvale, and various utility providers.

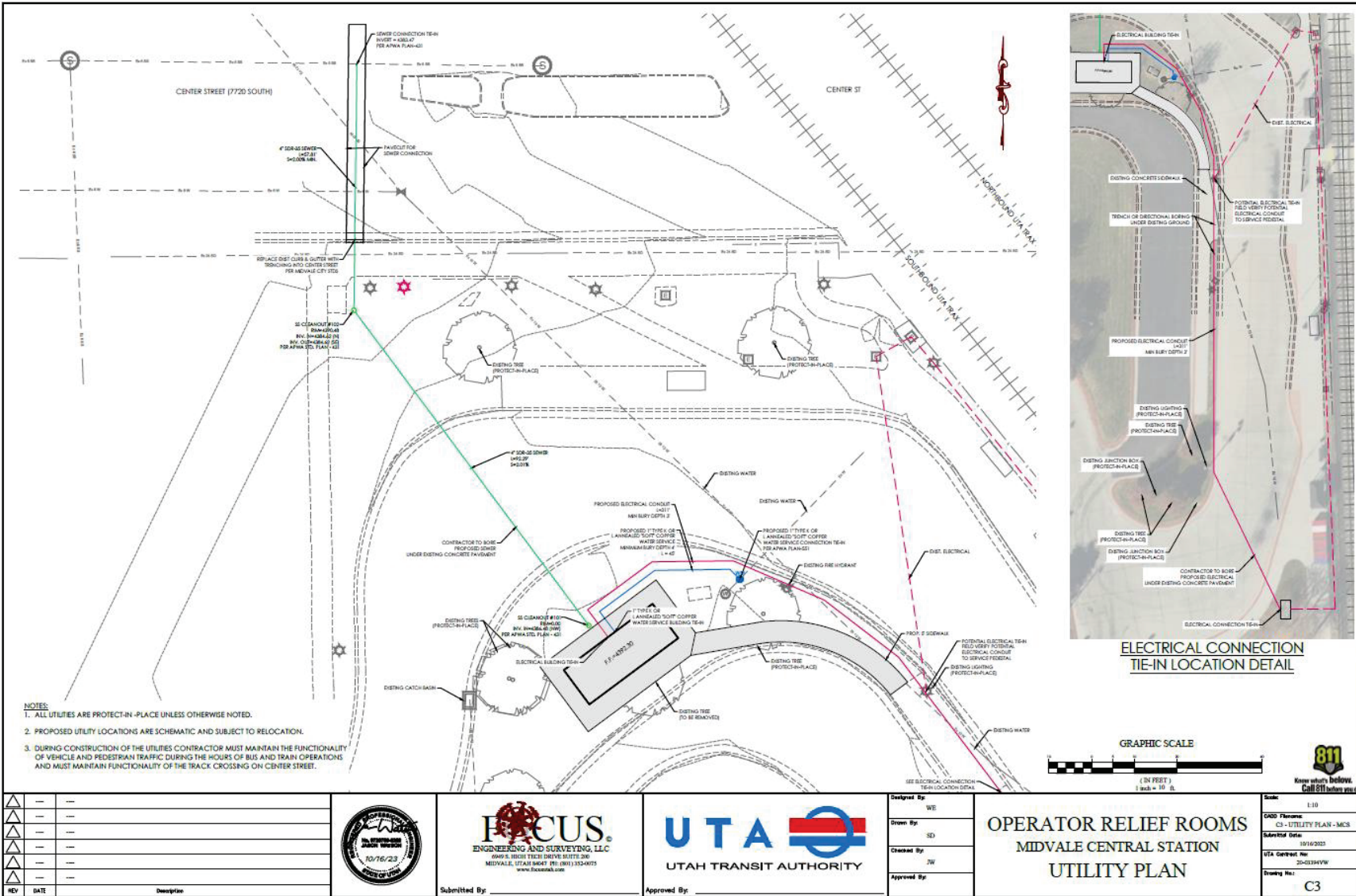
Revision table with columns: DATE, DESCRIPTION, and checkmarks.



Approval table with columns: Designed By, Drawn By, Checked By, Approved By. Includes names and initials.

OPERATOR RELIEF ROOMS
MIDVALE CENTRAL STATION
GENERAL NOTES

811 logo with slogan 'Know what's below. Call 811 before you dig.' Includes fields for Scale (NSA), CAD File Name (C11 - GENERAL NOTES - MCS), Submitted Date (10/16/2023), UTA Contact No. (2042339476), and Drawing No. (C1.1).



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FOCUS
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 1000 W. 1100 S. SUITE 200
 MIDVALE, UTAH 84047 (P: 801) 352-4075
 www.focusllc.com

Submitted By: _____

UTA
 UTAH TRANSIT AUTHORITY

Approved By: _____

Designed By:	WE
Drawn By:	SD
Checked By:	JW
Approved By:	

**OPERATOR RELIEF ROOMS
 MIDVALE CENTRAL STATION
 UTILITY PLAN**

Scale:	1:10
CADD Filename:	C3 - UTILITY PLAN - MCS
Submit Date:	10/16/2023
UTA Contract No.:	20-03344VW
Drawing No.:	C3

OPERATOR RELIEF ROOMS

PREPARED FOR:
UTAH TRANSIT AUTHORITY
 LOCATED IN:
MIDVALE, UT



VICINITY MAP
NS



SITE MAP
NS

Sheet List Table	
Sheet Number	Sheet Title
FARMINGTON STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
FASHION PLACE WEST STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
JORDAN VALLEY STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
MIDVALE CENTRAL STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
FORT UNION STATION	
C1	COVER AND INDEX
C1.1	GENERAL NOTES
C2	SITE PLAN
C3	UTILITY PLAN
C3.1	UTILITY PLAN
C3.2	UTILITY PLAN
APPENDIX	STANDARD DRAWINGS

GENERAL NOTES

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION, AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- ANY AND ALL DISCREPANCIES IN THESE PLANS ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL ADHERE TO MIDVALE CITY STANDARD PLANS AND SPECIFICATIONS.
- ALL UTILITIES AND ROAD IMPROVEMENTS SHOWN ON THE PLANS HEREIN SHALL BE CONSTRUCTED USING REFERENCE TO SURVEY CONSTRUCTION STAKES PLACED UNDER THE SUPERVISION OF A PROFESSIONAL LICENSED SURVEYOR WITH A CURRENT LICENSE ISSUED BY THE STATE OF UTAH. ANY IMPROVEMENTS INSTALLED BY ANY OTHER VERTICAL OR HORIZONTAL REFERENCE WILL NOT BE ACCEPTED OR CERTIFIED BY THE ENGINEER OF RECORD.
- THIS DRAWING SET IS SCALED TO BE PRINTED ON A 24" X 36" SIZE OF PAPER (ARCH D). IF PRINTED ON A SMALLER PAPER SIZE, THE DRAWING WILL NOT BE TO SCALE AND SHOULD NOT BE USED TO SCALE MEASUREMENTS FROM THE PAPER DRAWING. ALSO USE CAUTION, AS THERE MAY BE TEXT OR DETAIL THAT MAY BE OVERLOOKED DUE TO THE SMALL SIZE OF THE DRAWING.

NOTICE

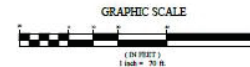
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- UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- ALL CONTROL LINES SHOWN ON THE PLANS ARE AN INTERPRETATION BY CAD SOFTWARE OF FIELD SURVEY WORK PERFORMED BY A LICENSED SURVEYOR. DUE TO THE POTENTIAL DIFFERENCES IN INTERPRETATION OF CONTIGUOUS BY VARIOUS TYPES OF GRADING SOFTWARE BY OTHER ENGINEERS OR CONTRACTORS, FOCUS DOES NOT GUARANTEE OR WARRANT THE ACCURACY OF SUCH LINEWORK. FOR THIS REASON, FOCUS WILL NOT PROVIDE ANY GRADING CONTROLS IN CAD FOR ANY TYPE OF USE BY THE CONTRACTOR. SPOT ELEVATIONS AND PROFILE ELEVATIONS SHOWN IN THESE DRAWINGS GOVERN ALL DESIGN INFORMATION ILLUSTRATED ON THE APPROVED CONSTRUCTION SET. CONSTRUCTION EXPERTISE AND JUDGMENT BY THE CONTRACTOR IS ANTICIPATED BY THE ENGINEER TO COMPLETE BUILDOUT OF THE INTENDED IMPROVEMENTS.

CONTACTS

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 FOCUS ENGINEERING & SURVEYING, LLC
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 MIDVALE, UTAH 84047
 (801) 352-0075
 PROJECT MANAGER: JASON WATSON
 SURVEY MANAGER: EVAN WOOD



REV	DATE	DESCRIPTION



Submitted By:

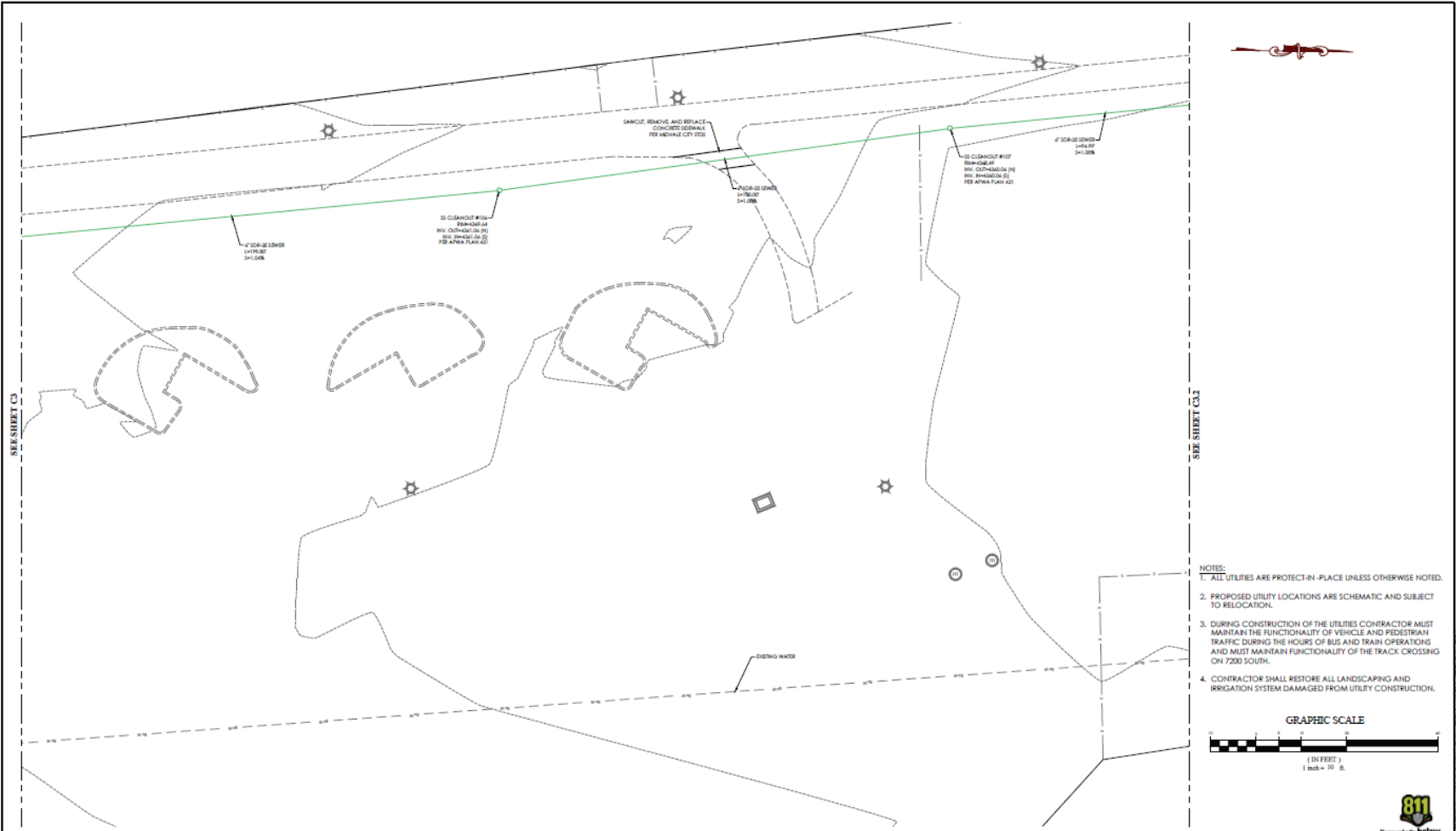


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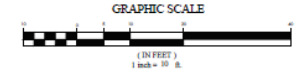
Designed By: WE
 Drawn By: SD
 Checked By: JW
 Approved By:

OPERATOR RELIEF ROOMS
FORT UNION STATION
COVER SHEET

Scale:
 CAD File No: XXX
 Revised Date: 10/16/2025
 UTA Contract No: 20-05944VW
 Drawing No.: C1



- NOTES:
1. ALL UTILITIES ARE PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
 2. PROPOSED UTILITY LOCATIONS ARE SCHEMATIC AND SUBJECT TO RELOCATION.
 3. DURING CONSTRUCTION OF THE UTILITIES CONTRACTOR MUST MAINTAIN THE FUNCTIONALITY OF VEHICLE AND PEDESTRIAN TRAFFIC DURING THE HOURS OF BUS AND TRAIN OPERATIONS AND MUST MAINTAIN FUNCTIONALITY OF THE TRACK CROSSING ON 7200 SOUTH.
 4. CONTRACTOR SHALL RESTORE ALL LANDSCAPING AND IRRIGATION SYSTEM DAMAGED FROM UTILITY CONSTRUCTION.



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REV	DATE	Description



FOCUS
 ENGINEERING AND SURVEYING, LLC
 6040 S. HUNT STREET SUITE 200
 MIDVALE, UTAH 84047 TEL: (801) 952-0075
 www.focusllc.com

Submitted By: _____

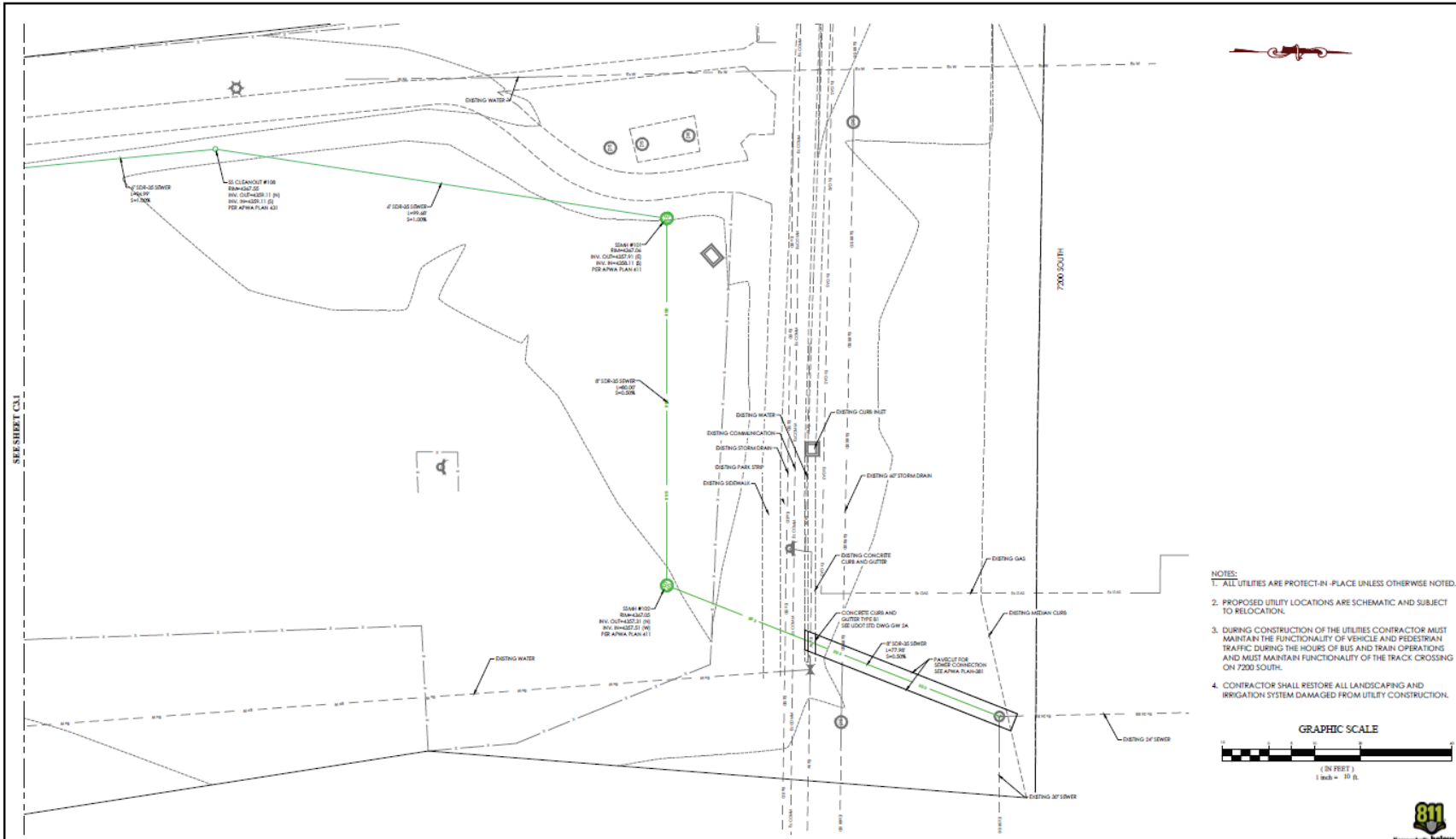
UTA
 UTAH TRANSIT AUTHORITY

Approved By: _____

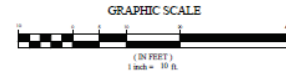
Designed By:	WE
Drawn By:	SD
Checked By:	JW
Approved By:	

**OPERATOR RELIEF ROOMS
 FORT UNION STATION
 UTILITY PLAN**

Scale:	1:10
GOOD Filename:	C3.1 - UTILITY PLAN - FUS
DATE:	10/16/23
UTA Contract No.:	20-033497W
Drawing No.:	C3.1



- NOTES:
1. ALL UTILITIES ARE PROTECT-IN-PLACE UNLESS OTHERWISE NOTED.
 2. PROPOSED UTILITY LOCATIONS ARE SCHEMATIC AND SUBJECT TO RELOCATION.
 3. DURING CONSTRUCTION OF THE UTILITIES CONTRACTOR MUST MAINTAIN THE FUNCTIONALITY OF VEHICLE AND PEDESTRIAN TRAFFIC DURING THE HOURS OF BUS AND TRAIN OPERATIONS AND MUST MAINTAIN FUNCTIONALITY OF THE TRACK CROSSING ON 7200 SOUTH.
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REV	DATE	Description



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UTA
UTAH TRANSIT AUTHORITY

Designed By	WE
Drawn By	SD
Checked By	ZW
Approved By	

**OPERATOR RELIEF ROOMS
FORT UNION STATION
UTILITY PLAN**

Scale:	1:10
CADD Filename:	C3.2 - UTILITY PLAN - FUS
Submitted Date:	10/16/2023
UTa Contract No.:	20-03344VW
Drawing No.:	C3.2

Appendix VI

Project Special Provisions, Standard Plans and City Details

1. Special Provision 13 34 70 T Prefabricated Modular Concrete Building Assemblies.
2. SR II Low Lead Meter Data Sheet
3. APWA Standard Plan 236.1 Mid-block Curb Cut Assembly
4. APWA Standard Plan 431 Sewer Lateral Connection
5. APWA Standard Plan 551 3/4" and 1" Service Taps
6. APWA Standard Plan 633 Control Valve
7. APWA Standard Plan 731 Junction Box
8. APWA Standard Plan 741 Screw-in Base Street Light Pole
9. APWA Plan No. 231 SP Concrete Sidewalk
10. APWA Plan No. 521 SP Water Service Connection
11. Murray City Details C-1 ADA Access Sidewalk Ramp
12. Murray City Details C-5 Roadway Detail
13. Murray City Detail C-7 Trench Backfill
14. City of West Jordan Standard Plan CW-105 Service Taps for 3/4" and 1" Laterals
15. City of West Jordan Standard Plan RD175 Standard Trench Excavation Restoration
16. City of West Jordan Standard Plan RD200 Standard Sidewalk
17. City of West Jordan Standard Plan SS-25 Sanitary Sewer Lateral

SECTION 13
34 70 T

PREFABRICATED MODULAR CONCRETE BUILDING ASSEMBLIES

PART I - GENERAL

1.1 SUMMARY

- A. Description: The work of this Section includes furnishing and installing of high quality precast concrete restroom facility. Provide units in accordance with Contract Documents.

1.2 SUBMITTALS

- A. Product Data: Submit two copies of manufacturer's literature for all products furnished, describing products, installation procedures and maintenance instructions.
- B. Deferred Submittal: The prefabricated building will be procured by the selected contractor. The contractor will be responsible to prepare, submit, and obtain approval of all deferred submittals for the project required by Utah Transit Authority and the appropriate city agency including, but not limited to, the building structure, electrical requirements, plumbing, and building pad and foundations.
- C. Shop Drawings: For all components of prefabricated modular concrete building: Include plans, elevations sections, details, and attachments to other work. Include the following:
 - 1. Door and window shop drawings. Include the following:
 - a. Elevations of each door or window type.
 - b. Details of doors and windows, including vertical- and horizontal-edge details and metal thicknesses.
 - c. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 - d. Locations of reinforcement and preparations for hardware.
 - e. Details of each different wall opening condition.
 - f. Details of anchorages, joints, field splices, and connections.
 - g. Details of accessories.
 - 2. Wiring Diagrams: For power, signal, and control wiring.
 - 3. Delegated-Design Submittal: For prefabricated modular concrete building assembly indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.3 QUALITY CONTROL

- A. Quality control shall be made in accordance with the requirements of the General Provisions, except as modified herein.
- B. Engage an experienced installer (either as a direct employee or as a subcontractor) who has prefabricated concrete structure installations similar in material, design, and extent to that indicated for this Project and with a minimum of

5 year record of successful in-service performance.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Deliver and handle modular structures in such a manner to prevent damage to products and finishes.
- B. Protect components during storage and construction against rain, snow or ground water.

1.5 PROJECT CONDITIONS

- A. Pre-Installation Conference
 - 1. Before beginning prefabricated concrete building assemblies and associated work, the Subcontractor, with concrete foreman, shall meet at the Project site with the Contractor's Superintendent, the installer of each component of the associated work, the representatives of the prefabricated concrete building assembly manufacturer, installers of other work requiring coordination with precast concrete unit work and the Engineer for a pre-installation conference.
 - 2. The material selections and procedures to be followed in performing the work shall be reviewed to verify compliance with the requirements specified.
 - 3. If either the concrete foreman or Contractor's Superintendent are replaced before completion of work of this Section, the conference shall be repeated.
- B. Frozen Work
 - 1. Frozen materials or materials mixed or coated with ice or frost shall not be used.
 - 2. Work damaged by frost or freezing shall be removed and replaced at no cost b UTA.

1.6 WARRANTY

- A. Provide warranty in writing from prefabricated concrete building assembly manufacturer that warrants concrete products against defects in materials or workmanship. Manufacturer shall repair or replace any part of the product that proves, upon manufacturer's inspections, to be defective in materials and /or workmanship. Finished goods installed in the building will carry that manufacture.
 - 1. Warranty Period: One (1) year from date of purchase.
- B. Warranty Specific Conditions:
 - 1. Products must be properly installed and operating procedures and maintenance instructions must be followed.
 - 2. Only authorized representatives of manufacturer must perform repairs or replacements to the products supplied by manufacturer.
- C. Warranty Exclusions:
 - 1. Warranty does not cover damage resulting from third party transit, accidents, acts of God, misuse, unauthorized repairs, negligence, modifications, tampering, disconnection, improper adjustments, improper care or maintenance, improper installation and out of warranty service. Although every attempt will be made to design the structure in accordance with published wind loads and seismic activity for the specified geographical area where it will be installed, this warranty does not cover damage that may result from environmental loads or conditions in excess

-
- of agreed-upon design values.
2. Any implied warranty of merchantability or fitness for a particular purpose applicable to this product is limited to the duration of this written warranty.
 3. Manufacturer is not liable for incidental or consequential damages resulting from breach of this written warranty or any implied warranty.
 4. The performance of repairs or needed adjustments shall be the exclusive remedy of the user/purchaser under this written warranty or any implied warranty.
 5. This warranty gives the Owner specific rights. No person shall be authorized to change, add to, or create any warranty or obligation other than set forth herein as provided by state of Utah.

PART II - PRODUCTS

2.1 MANUFACTURERS

The manufacturer supplying the requested precast concrete multi-flush restroom facility must meet the following:

- A. Manufacturer must be ISO 9001 certified at the time of bid.
- B. Manufacturing plant must be PCI certified at the time of bid.
- C. Manufacturer must not have defaulted on any contract within the last five years.
- D. Manufacturer must provide stamped, engineered drawings prior to acceptance.
- E. Manufacturer must be pre-approved prior to bidding.
- F. Manufacturer must show four examples of precast concrete flush facilities produced, installed, and in use as an example of their ability to perform on this contract.
- G. Manufacture shall provide a 20-year warranty.

Manufacturers meeting these criteria are:

CXT, Incorporated
Spokane Industrial Park
3808 North Sullivan Road, Building 7
Spokane, WA 99216
Phone: 800-696-5766

- H. Precast Concrete Manufacturers:
 1. Design Components: Provide components of Prefabricated Buildings as indicated herein, including doors, hardware, accessories, and lighting components or provide equivalent components, by other manufacturers, approved in writing before bid by Architect/Engineer and prefabricated building manufacturer.

2.2 MATERIALS

A. Concrete - General

The concrete mix design will be designed to ACI 211.1 to produce concrete of good workability.

1. Concrete will contain a minimum of 675 pounds of cementitious material per yard. Cement will be a low alkali type I/II or III conforming to ASTM C-150
2. Coarse aggregates used in the concrete mix design will conform to ASTM C33 with the designated size of coarse aggregate #67.
3. Minimum water/cement ratio will not exceed .45.
4. Air-entraining admixtures will conform to ASTM C260. Water reducing admixtures will conform to ASTM C494, Type A.
5. If Self Compacting Concrete (SCC) is used, it must conform to ASTM C1611

B. Colored Concrete

1. Color additives will conform to ASTM C979. A 12"x12"x1" color sample will be available for customer approval.
2. The following will contain colored concrete:
 - a. Toilet building roof panels
 - b. Building walls
 - c. Screen panels
3. The same brand and type of color additive will be used throughout the manufacturing process.
4. All ingredients will be weighed and the mixing operation will be adequate to ensure uniform dispersion of the color.

C. Cold Weather Concrete

1. Cold weather concrete placement will be in accordance with ACI 306.
2. Concrete will not be placed if ambient temperature is expected to be below 35 degrees F. during the curing period unless heat is readily available to maintain the surface temperature of the concrete at least 45 degrees F.
3. Materials containing frost or lumps of frozen materials will not be used.

D. Hot Weather Concrete

The temperature of the concrete will not exceed 95 degrees F. at the time of placement. When the ambient reaches 90 degrees F. the concrete will be protected with moist covering.

E. Concrete Reinforcement

1. All reinforcing steel will conform to ASTM A615. All welded wire fabric will conform to ASTM A185.
2. All reinforcement will be new, free of dirt, oil, paint, grease, loose mill scale and loose or thick rust when placed.
3. Details not shown of drawings or specified will be to ACI318.
4. Steel reinforcement will be centered in the cross-sectional area of the walls and will have at least 1 1/4" of cover on the under surface of the floor.
5. The maximum allowable variation for center-center spacing of reinforcing steel will be 1/2".
6. Full lengths of reinforcing steel will be used when possible. When splices are necessary on long runs, splices will be alternated from opposite sides of the components for adjacent steel bars. Lap bars #4 or smaller a minimum of 12". Lap bars larger than #4 a minimum of 24 bar diameters.
7. Reinforcing bars will be bent cold. No bars partially embedded in concrete will be field bent unless approved by the customer.

F. Sealers and Curing Compounds

1. Curing compounds, if used, will be colorless, complying with ASTM C309, type I or 1-D.
2. Weatherproofing sealer for exterior of building will be a clear water repellent penetrating sealer.

G. Caulking, Grout, Adhesive and Sealer

1. Caulking service temperatures from -40 to +194 degrees Fahrenheit.
2. Interior and exterior joints will be caulked with a paintable polyurethane sealant.
3. Grout will be a non-shrink type and will be painted to match the color of surrounding concrete as nearly as possible.
4. Cement base coating is formulated with a very fine aggregate system and is a built-in bonding agent.

H. Paint

1. All paints and materials will conform to all Federal specifications or be similar "top-of-the-line-components". Paints will not contain more than .06 percent by weight of lead.
2. Type of paints for toilets
 - a. Inside concrete surfaces
 - I. Interior floors will be a chemical resistant urethane. The color will be gray.

from the wall. Lower hook will extend at least 1-1/4" from the wall.

Q. Door Sweep

Door sweep will be provided at the bottom of door and will be an adjustable brush type.

R. Signs

1. Signs to have raised pictograms, letters and Braille to meet ADA.
2. All signs inset a minimum of 3/4" into wall with 45 degree bevel.
3. All signs to be anchored into concrete with 1/4" x 3/4" concrete anchor nail

S. Windows

1. Window frames will be constructed from steel.
2. Window glazing will be 3/16" thick translucent pebble finished mar-resistant Lexan.
3. Windows to have 3/4" recess with 45 degree bevel.
4. Window frames to have vandal resistant fasteners.

T. Plumbing

1. All fixtures to meet ANSI A112.19.2
2. Waste and vent material will be ABS or PVC plastic and will be plumbed to meet Uniform Building Codes.
3. Water material will be copper tubing Type L, hard drawn. A gate valve will be provided at the inlet end of the water line. All water lines will be of a size to provide proper flushing action based on a nominal water pressure of 40 psi.
4. All plumbing will be concealed in the service area.
5. Toilet will be constructed of vitreous china, wall hung, with siphon jet action. Toilet will have a back spud for a concealed flush valve connection and will be mounted with the top of the seat 18 inches above the finished floor. Seat will be heavy duty solid plastic with an open front. Stainless steel fixtures may be used. Toilet shall have floor mounted supports.
6. Flush valve will be concealed closet flush-o-meter constructed of rough brass. Furnish valve with integral vacuum breaker and wall mounted push button. Valve will be of a water saver type with a flow of 1.6 gallons per flush.
7. Lavatory will be vitreous china with back splashguard, front overflow opening, equipped with brass trap and drain pipe without stopper. Sink will be 20 inches wide x 18 inches front to back x 5 3/4" inches deep with ADA trap cover. Stainless steel fixtures may be used.
8. Water valve will be self-closing water set with indexed push button.
9. Water bottle Filling Station capable of filling up to 40 oz water bottles to be included in the breakroom (1 total).
10. Sanitary Napkin Disposal Receptacle to be included in each of the restrooms (2 total).
11. Paper Towel Dispensers to be included in each of the restrooms and in the

breakroom (3 total).

12. Hose bib provided in the chase area.
13. Hammer arrester to be installed on water line.
14. Trap primer distribution unit shall be installed
15. Optional 30 gallon electric hot water tank available.
16. Main Shut off valve and drain.

U. Electrical

1. All components to be UL listed
2. All electrical wiring will be in conduit, surface mounted in the service area and concealed in the user compartments. All wire will be copper.
3. A 100 amp breaker panel required.
4. Interior lights will be wall mounted vandal resistant 2 bulb T8 4 foot wrap around lens fixtures with low temperature ballast, emergency battery pack and fluorescent night light.
5. Lighting on the exterior of building will be photocell activated; interior will be motion activated, chase switch activated.
6. 3 exterior 35-watt High Pressure Sodium lights, polycarbonate vandal resistant.
7. 1 GFI outlets located next to the sink.
8. 2 restroom HVI certified exhaust fans with 270 CFM speed controlled (control in chase area).
9. The hand dryer will be an air compression type with remote motor unit. Push button switch located in cast nozzle housing with flexible hose connecting blower motor, housing and nozzle. Power input 120VAC, 7A (non-heated air).

V. Stalls

1. Stall partition walls to be produced of 3-inch concrete. Stall doors to be solid HDPE, in matching white color.

W. Climate Control

1. Each room within pre-fabricated building shall have a multi-zone wall mounted type indoor unit heat pump. Heat pump shall be 7000 BTU/H.
2. Building shall be insulated per manufacturers specifications.

2.1 DESIGN AND FABRICATION

The prefabricated modular concrete building shall meet the size and requirements for this project as illustrated on the construction drawings. Prefabricated structure shall consist of 2 restrooms, and 1 breakroom. The Santiago 22-019-3P, produced by CXT has been designed to individually meet the following criteria. An approved equal prefab building meeting the criteria as shown on the sample plans and in this specification may be used if approved by the engineer and would be required to have calculations and Engineer's stamped drawings. The design criteria are to ensure that the approved prefabricated structure, not only will withstand the forces of nature listed below but will provide protection from vandalism and other unforeseen hazards. Design criteria include 2006 IBC Code, 2006 IPC, 2008 NEC.

- A. **Roof Snow Load**
 - 1. The prefabricated restroom shall be designed to withstand a 250 pounds per square foot snow load
- B. **Floor Load**
 - 1. The prefabricated restroom shall be designed to withstand 400 pounds per square foot floor load
- C. **Wind Load**
 - 1. The prefabricated restroom shall be designed to withstand the effects of 150 mile per hour (3-second gust) wind exposure C
- D. **Earthquake**
 - 1. The prefabricated restroom shall be designed to withstand the effects of a seismic group 1 seismic design category E earthquake.
- E. **Additional Design Standards**
 - 1. The prefabricated restroom shall be designed to meet the requirements of the Americans with Disabilities Act Requirements and Uniform Federal Accessibility Standards as of the date of this specification.
 - 2. The prefabricated restroom shall be an all-concrete structure. Design with a minimum 3/12 roof pitch.
 - 3. The prefabricated restroom shall have a minimum 4-inch wall, 4 ½ inch roof, and 5-inch floor thickness.
 - 4. All wall to floor interior surface seams shall have a minimum 1" radius coving made of high strength grout.
- F. Provide building structure design and fabrication adequate to withstand wind loads, snow loads and seismic activity for the geographic region in which it will be installed and in accordance with governing building codes and the stresses and shocks common to buildings. Clearly state in design calculations and Shop Drawings design loads and criteria, safety factors, etc. used to arrive at a design load.
- G. Construct forms for precast components with finished components that have sharp definition, dimensional accuracy, and uniformity of shape and texture.
 - 1. Prefabricate precast components to sizes and shapes indicated on plans.
 - 2. Provide assembly with no unfinished edges exposed to view.
 - 3. Provide finished components that are straight and square.
 - 4. Do not use waxed, cracked, broken, spalled, stained, or otherwise defective units.
 - 5. Do not use components with imperfections in exposed surfaces.
- H. Prefabricate reinforcing assemblies into single complete units with minimum of 3/4 inch clearance from edges and surfaces of precast unit. Place and secure in forms all necessary anchors, clips, inserts, lifting devices, stud bolts, ties and other device required for handling and installing precast components and for attachment of subsequent items.
- I. Cure precast concrete components in forms for minimum of 24 hours, or until concrete reaches 75 percent of design strength.

1. Cover exposed surfaces to control the loss of moisture and temperature. After the precast component is removed from the form cover it or moisture cure it until the results of a 7 day compression test is available
- J. Attach precast cover panels to walls to form continuous unit. Permanently attach wall and floor reinforcing to each other. The welding procedure shall be approved by a professional engineer.
- K. Welding shall be done by welders having current valid certifications and having current experience in this type of welding. All construction shall be per American Welding Society Codes and Recommendations. Paint exposed steel plate assemblies (both inside and out) over shop coat.
- L. Provide finished floor that is level along all walls. No area of the floor shall allow wastewater to accumulate.

2.2 MANUFACTURE

A. Mixing and Delivery of Concrete

Mixing and delivery of concrete will be in accordance with ASTM C94, section 10.6 through 10.9 with the following additions:

1. Aggregate and water will be adjusted to compensate for differences in the saturated surface-dry condition.

B. Placing and Consolidating Concrete

Concrete will be consolidated by the use of mechanical vibrators.

Vibration will be sufficient to accomplish compaction but not to the point that segregation occurs.

C. Finishing Concrete

1. Interior floor and exterior slabs will be floated and troweled.
2. All exterior building walls and exterior screen walls will be any one of the available textures.
3. All exterior surfaces of the roof panels will be cast to simulate any one of the available textures. The underside of the overhang will have a smooth finish.

D. Cracks and Patching

1. Cracks in concrete components which are judged to affect the structural integrity of the building will be rejected.
2. Small holes, depressions and air voids will be patched with a suitable material. The patch will match the finish and texture of the surrounding surface.
3. Patching will not be allowed on defective areas if the structural integrity of the building is affected.

E. Curing and Hardening Concrete

1. Concrete surfaces will not be allowed to dry out from exposure to hot, dry weather during initial curing period.

2.3 FINISHING AND FABRICATION

A. Structural Joints

1. Wall components will be joined together with two welded plate pairs at each joint. Each weld plate will be 6" long and located one pair in the top quarter and one pair in the bottom quarter of the seam. Weld plates will be anchored into the concrete panel and welded together with a continuous weld. The inside seams

will be a paintable caulk. The outside seams will use a caulk in a coordinating building color or clear.

2. Walls and roof will be joined with weld plates, 3"x6" at each building corner.
3. The joint between the floor slab and walls will be joined with a grout mixture on the inside, a matching-colored caulk on the outside and two weld plates 6" long per wall.

B. Painting/Staining

1. An appropriate curing time will be allowed before paint is applied to concrete.
2. Some applications may require acid etching. A 30% solution of hydrochloric acid will be used, flushed with water and allowed to thoroughly air dry.
3. Painting will not be done outside in cold, frosty or damp weather.
4. Painting will not be done outside in winter unless the temperature is 50 degrees F. or higher.
5. Painting will not be done in dusty areas.
6. All surface voids to be filled prior to painting
7. Schedule of finishes

a. Inside concrete surfaces

- I. Inside floors will be 1 coat of 1-part water based chemical resistant urethane.
- II. Interior walls and ceilings will be 2 coats of a modified acrylic, water repellent penetrating stain, followed by 1 coat of clear sealer.

b. Metal surfaces both inside and out

- I. 2 coats of DTM ALKYD

c. Exterior concrete surfaces

- I. Exterior walls will be 2 coats of water repellent penetrating stain in the same color as the walls or roof followed by 1 coat of clear acrylic anti-graffiti sealer.

C. Exterior Walls and Roof: At exterior concrete walls and exterior roof of building, provide single coat of Polyamide Epoxy Base Coat as manufactured by Benjamin Moore (or approved equal) and applied at factory. Architect/Engineer will select colors (coordinate with UTA).

D. Exterior Doors and Frames: Prime and apply 2 coats of Urethane Alkyd Enamel. Color to be selected and approved by Architect/Engineer (coordinate with UTA).

E. Caulking Compound: Before all joints of the package plant are sealed, place rolled polyurethane foam rope in seams. Seal joints with non-sag, non-staining polyurethane caulking compound meeting ASTM C-920-79. Sika-flex or equal is approved.

F. Interior Walls, Ceiling, and Floor: Steel towel floor slab and provide broom finish. Apply floor sealer to finished concrete, Benjamin Moore Super Spec Waterborne Epoxy or approved equal. Seal interior walls and ceiling with Benjamin Moore Super Spec Acrylic Epoxy (or approved equal) tinted to Owner's specifications.

PART III-EXECUTION

3.1 INSTALLATION

A. Scope of Work

Work specified under this Section relates to the placement of the prefabricated unit on the prepared foundations.

B. Location

It's the responsibility of the contractor to:

1. Provide exact location by stakes or other approved method.
2. Provide clear and level site free of overhead and/or underground obstructions.
3. Provide access to the site for truck delivery and sufficient area for the crane to install and the equipment to perform the contract requirements.
4. Water, electrical, and sewage site connections to be placed per engineered drawings. Must be placed to easily connect to the building.

C. Compacting

The bottom of the area must be compacted after it has been dug out. After the base has been placed, it must be compacted as well. The bearing of the soil and base should be a minimum of 1,500 pounds per square foot.

D. Base

After compacting the bottom of the area, a minimum of 6" of a compacted, $\frac{3}{4}$ " minus material base of gravel (i.e. road base) should be placed for support, leveling and drainage purposes. The base also limits frost action. The base must be confined so as to prevent washout, erosion or any other undermining.

E. Access to Site

Contractor is responsible for the delivery of the prefabricated structure to the site. Contractor is responsible for the placement of the prefabricated structure on the site. Delivery to site made on normal highway trucks and trailers.

F. Install as per each manufacturer's written instructions. Provide all necessary ground improvements including base material, compaction and concrete as required by prefabricated building manufacturer.

3.2 TESTING

The following tests will be performed on concrete used in the manufacture of toilets. All testing must be performed in the PCI certified laboratories. Testing will only be performed by qualified individuals who have been certified ACI Technician Grade 1. Sampling will be in accordance with ASTM C172.

1. The air content of the concrete will be checked per ASTM C231 on the first batch of concrete. The air content will be in the range of 5.0% +/- 2.0%.
2. The compressive strength of the cylinders will be tested to ASTM C39. We will make one (1) cylinder for release, one (1) for 7-days and one (1) for 28-days. The release must be a minimum strength of 2500 psi, the 7-day must be a minimum of 4500 psi and the 28-day must be a minimum of 5000 psi.
3. A copy of all test reports will be available to the customer as soon as 28-day test results are available.

**END OF
SECTION**



SR II® Low Lead Meter

Positive Displacement Water Meter with Sensus® Electronic Register+™

The Sensus SR II® is for measurement of cold water flow usage in residential services.

FEATURES

- 5/8" (DN 15 mm), 3/4" (DN 20 mm), and 1" (DN 25 mm) Sizes
- Sensus® Electronic Register+™ advanced electronic register
- Hydrodynamically balanced design
- Compatible with current Sensus AMI/AMR systems

BENEFITS

- Enable more cost-effective, accurate meter readings
- Deliver a wide range of flows
- Provide lasting measurement accuracy for years of dependable service
- Integrate seamlessly with the FlexNet SmartPoint® module
- Tamper resistant
- Improve customer service
- Environmental and public health conscience

Operation

Water flows through the meter's strainer and into the measuring chamber where it drives the piston. The hydrodynamically balanced piston oscillates around a central hub, guided by the division plate. A drive magnet transmits the motion of the piston to a sensor located within the register. The Electronic Register+ calculates the rotations into volume totalization units displayed on the register LCD.

Construction

SR II meters consist of three basic components: maincase, measuring chamber and sealed register. Maincases are made of NFS approved brass with externally-threaded spuds. Registers are housed in a bonnet of synthetic polymer. Measuring chambers are Rocksyn®, a corrosion-resistant, tailored thermoplastic material formulated for long-term performance and especially suitable for aggressive water conditions. Maincase bottom plates are available in brass or, if frost protection is desired, cast iron or synthetic polymer.

Magnetic Drive

The SR II features a hydrodynamically balanced design that eliminates premature wear of components. The meter utilizes a patented positive reliable drive coupling. The high strength magnets eliminate "drive slip" in normal use and also provide adequate strength to drive remote register units.

Sensus Electronic Register+

The Sensus® Electronic Register+™ is an advanced electronic register with 120 days of hourly data logging with 30-day data pull intervals available. This information helps utilities make better informed decisions.

SR II® Water Meter

DATA SHEET



Conformance to Standards

Sensus SR II meters meet the requirements of NSF 61, Annex F/G and 372, and comply with AWWA Standard C700-latest revision. Each meter is tested to ensure compliance with AWWA standards.

Maintenance

SR II meters are engineered to provide long-term value and virtually maintenance-free operation. Simplicity of design allows interchangeability of parts of like-size meters, reduced parts inventory requirements and ease of maintenance. The register can be removed without relieving the water pressure or removing the maincase from the installation.

Connections

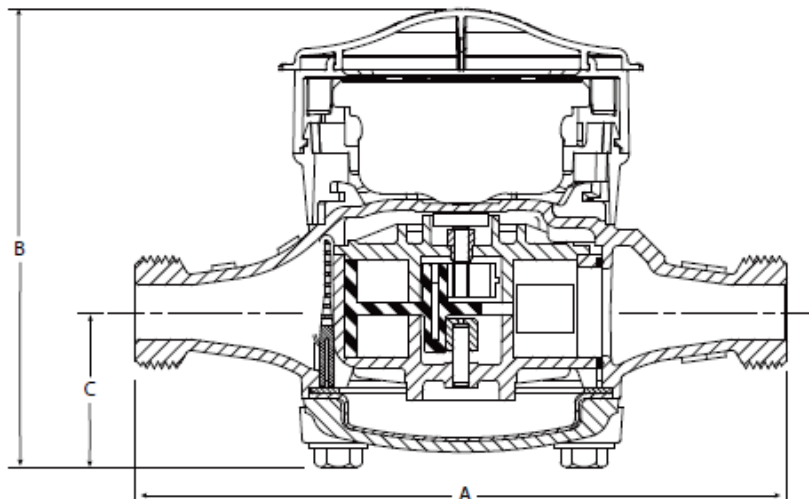
Tailpieces/unions for installing the meters on a variety of pipe types and sizes are available.

AMR/AMI Systems

Meters and encoders are compatible with current Sensus AMR/AMI systems.

Guarantee

Sensus SR II water meters are backed by “the Sensus Guarantee.” Ask your Sensus representative for details or see Bulletin G-500.



Dimensions and Net Weights

Meter Size	A	B	C	Width	Net Weight
5/8" (DN 15mm)	7-1/2" (190 mm)	5-3/8" (136 mm)	1-3/4" (44 mm)	3-7/8" (98 mm)	4.3 lb. (1.97 kg)
5/8" x 3/4" (DN 15mm x 20mm)	7-1/2" (190 mm)	5-3/8" (136 mm)	1-3/4" (44 mm)	3-7/8" (98 mm)	4.4 lb. (2.0 kg)
3/4" Short (DN 20mm)	7-1/2" (190 mm)	5-7/8" (149 mm)	2-3/16" (56 mm)	4-1/2" (114 mm)	6.2 lb. (2.81 kg)
3/4" (DN 20mm)	9" (229 mm)	5-7/8" (149 mm)	2-3/16" (56 mm)	4-1/2" (114 mm)	6.4 lb. (2.90 kg)
1" (DN 25mm)	10-3/4" (273 mm)	7-1/8" (181 mm)	2-3/4" (70 mm)	6-1/2" (165 mm)	11.9 lb. (5.4 kg)

SR II® Water Meter

DATA SHEET



Smart Alarms

Electronic Register+ has several available smart alarms. Get alerts and address these issues before they become more costly:

- **Tampering**
Detect register removal as well as magnetic interference to reduce apparent water losses and protect against unauthorized activities.
- **Low Battery**
Replace your meters before they stop recording consumption through alerts indicating battery capacity to the meter is running low.
- **Customer Leak**
Detect continual consumption of water over a period of time to indicate downstream leaks. This can reduce water loss and leak adjustment costs.
- **Reverse Flow**
Keep untreated water from re-entering your distribution system or deter tampering attempts when reverse flow is detected.
- **High Flow**
Detect broken pipes, high usage and reduce property damage through an alert triggered when excessive flow rates are recorded.



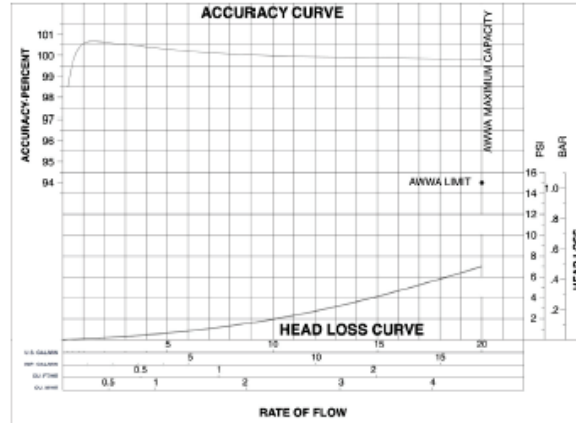
Specifications

Service	Measurement of potable and reclaim water. 0-100% humidity. Fully submersible. IP68 rated.		
Temperature	Water operating temperature range of 33 °F (0.55 °C) to 80 °F (26.7 °C) . Ambient air operating temperature -22 °F (-30 °C) to -140 °F (60 °C). Storage air temperature -30 °F (-34.4 °C) to 158F (70 °C).		
Normal operating flow range (100% ±1.5%)	5/8" (DN 15 mm) size: 1 to 20 gpm (0.25 to 4.5 m ³ /hr)	3/4" (DN 20 mm) size: 2 to 30 gpm (0.45 to 7.0 m ³ /hr)	1" (DN 25 mm) size: 3 to 50 gpm (0.07 to 11.0 m ³ /hr)
Low flow registration (95%-101%)	5/8" (DN 15 mm) size: 1/4 gpm (0.06 m ³ /hr)	3/4" (DN 20 mm) size: 1/2 gpm (0.10 m ³ /hr)	1" (DN 25 mm) size: 3/4 gpm (0.15 m ³ /hr)
Maximum pressure loss	5/8" (DN 15 mm) size: 7.0 psi at 20 gpm (0.5 bar at 4.5 m ³ /h)	3/4" (DN 20 mm) size: 9.0 psi at 30 gpm (0.6 bar at 7.0 m ³ /h)	1" (DN 25 mm) size: 7.3 psi at 50 gpm (0.5 bar at 11.0 m ³ /h)
Maximum operating pressure	150 psi (10.0 bar)		
Measurement element	Oscillating piston		
Register	Electronic Register+: Hermetically sealed, communication of smart alarms with cable output options. Direct Read: Hermetically sealed, no communication output.		
Capacity	10,000,000 gallons, 1,000,000 cubic feet or 100,000 m ³ capacity. 8 odometer wheels.		
Meter Registration	Electronic: 0.1 gallons/imperial gallons, 0.01 cubic foot, or 0.001 m ³	Standard: 10 gallons, 1 cubic foot, or 0.01 m ³ / or 0.1 m ³ / sweep hand revolution.	
Meter Connections	5/8" (DN 15 mm) size: 3/4" (20 mm) threads 3/4" (DN 20 mm) size: 1" (25 mm) threads (All threads are straight pipe, external type, conforming to ANSI B1.20.1 or ISO R228, if specified.)	5/8" x 3/4" (DN 15mm x 20mm) size: 1" (25 mm) threads 1" (DN 25mm) size: 1-1/4" (32 mm) threads	
Materials	Maincase - Bismuth BiAlloy CDA 89836 or EnviroBrass II C89520 Register Box - Synthetic polymer	Measuring chamber - Rocksyn* Bottom plate - Bismuth BiAlloy CDA89836	Magnets - Ceramic Casing bolts - Stainless steel Strainer - Synthetic polymer

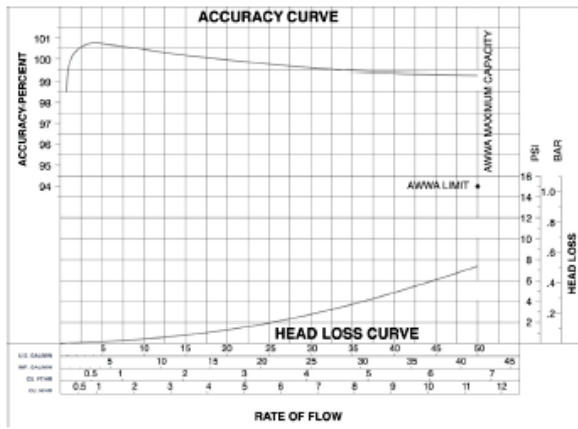
SR II® Water Meter



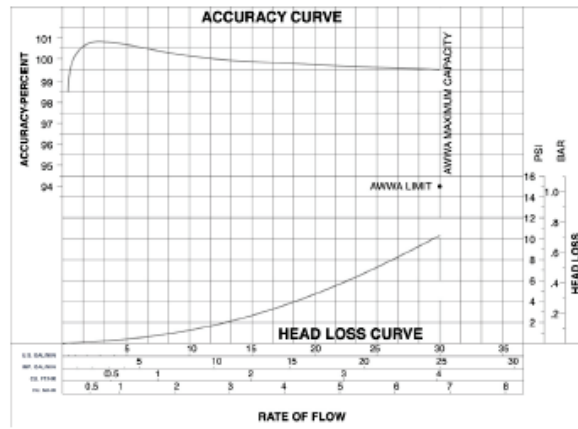
Performance Curves



5/8" and 5/8" x 3/4" SR II Meter



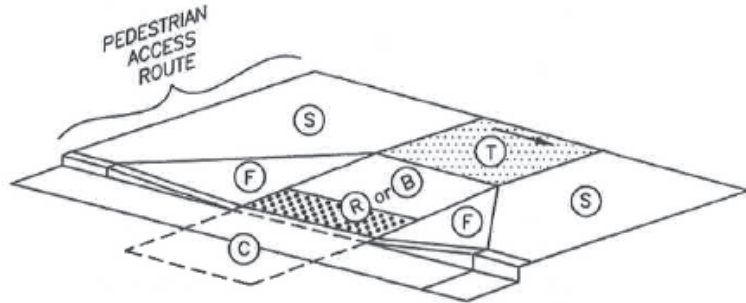
1" SR II Meter



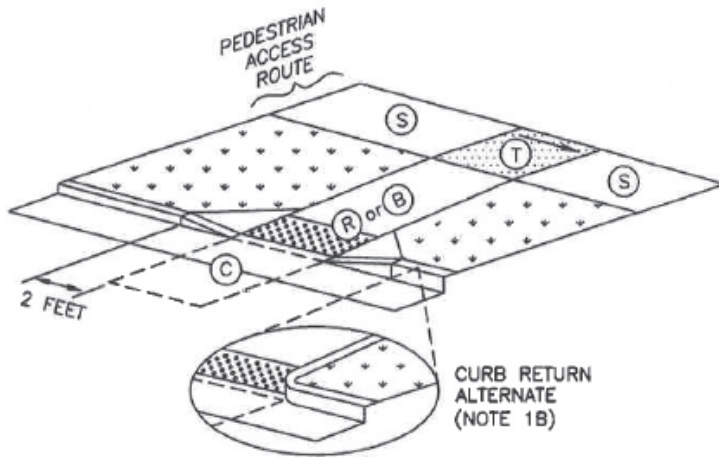
3/4" SR II Meter

TURNING SPACE AT SIDEWALK LEVEL

THE LOCATION OF THE PEDESTRIAN ACCESS ROUTE AFFECTS FLARE SLOPE CONSTRUCTION



EXAMPLE 1

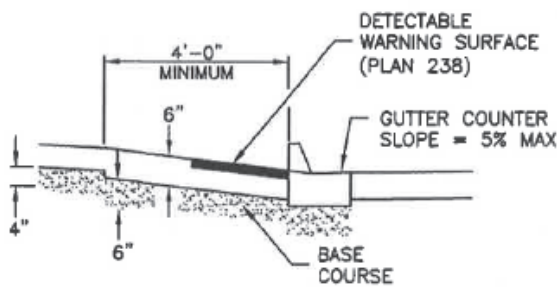


EXAMPLE 2

ELEMENT	DIMENSION
(R) (B)	4 FEET WIDE MINIMUM
(C) (T)	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

TABLE OF DIMENSIONS



MATERIALS

	RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE (T)	STREET GRADE	2
CURB RAMP (R)	8.33	2 (c)
BLENDED TRANSITION (B)	5	2 (c)
CLEAR SPACE (C)	5	2 (c)
SIDEWALK (S)	STREET GRADE	2
FLARE (F)	10	--

- (a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
- (b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

SLOPE TABLE

Sewer lateral connection

1. GENERAL

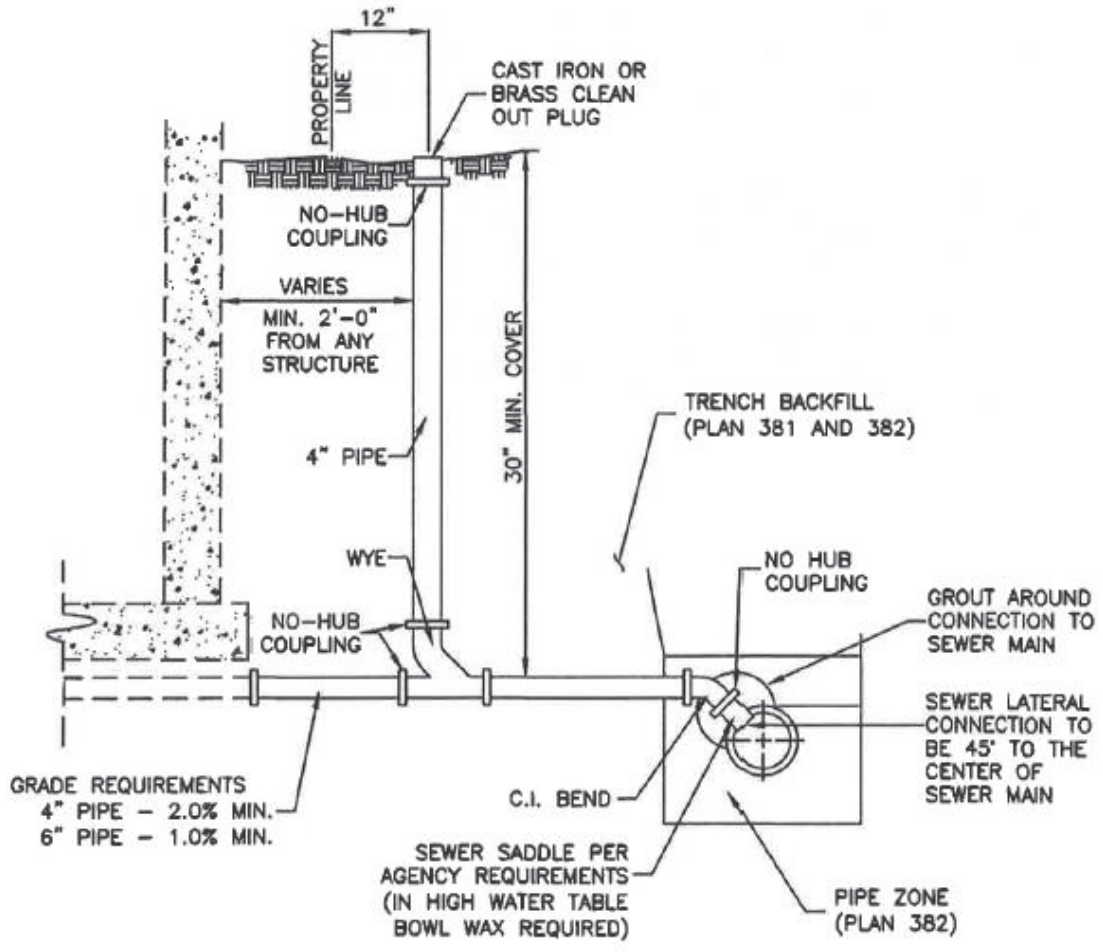
- A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and couplings to be used.
- B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24 hours notice.
- C. Verify if CONTRACTOR or agency is to install the wye.

2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Provide agency approved wye or tee with appropriate donut.
- D. Stainless steel straps required.

3. EXECUTION

- A. Tape wrap pipe as required by soil conditions.
- B. Remove core plug from sewer main. Do not break into sewer main to make connection.
- C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



3/4" and 1" Service taps

1. GENERAL

A. Before backfilling around taps, secure inspection of installation by ENGINEER.

2. PRODUCTS

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.

B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

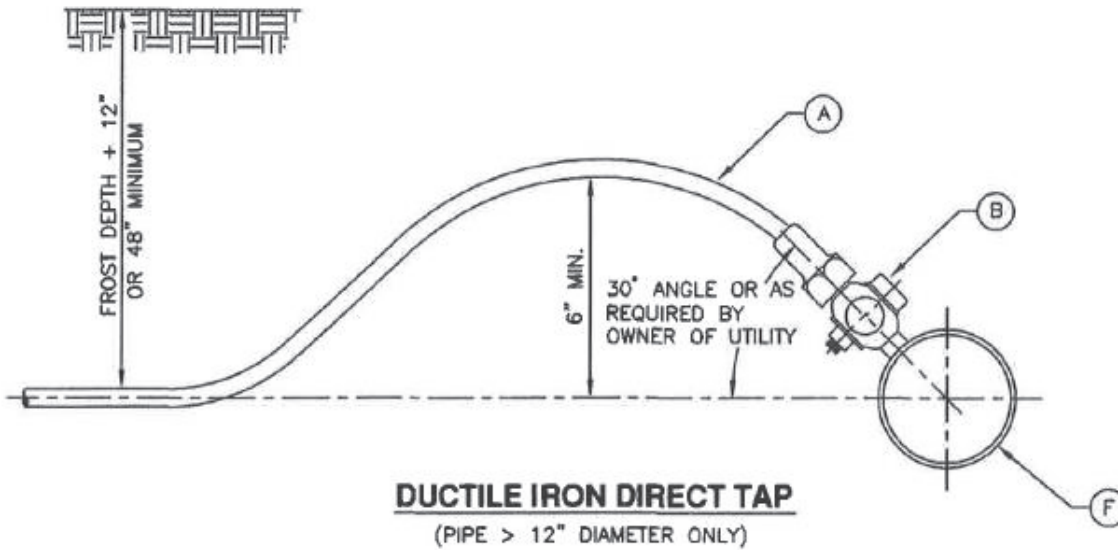
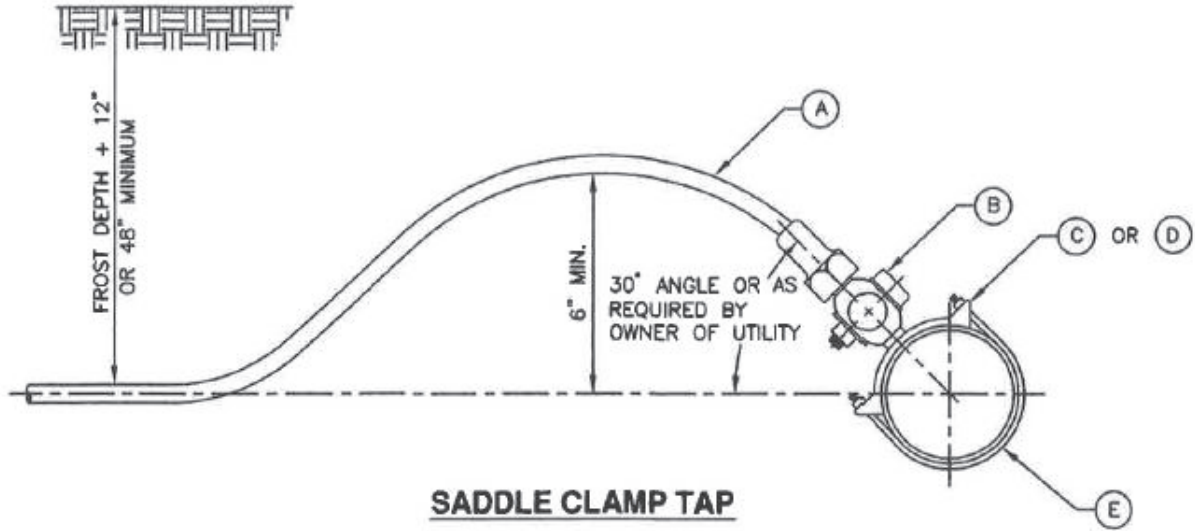
C. Tape: Teflon tape is required on all taps.

3. EXECUTION

A. Tapping: Place taps a minimum of 36-inches apart. Use a tapping tool which is sized corresponding to the size of the service line to be installed. No taps within 36-inches of end of pipe.

B. PVC or AC Pipe: A service saddle clamp is required on all PVC and AC pipe taps unless specified otherwise.

C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.



LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		COPPER PIPE	TYPE K - SOFT
(B)		CORPORATION STOP	BRASS
(C)		SERVICE SADDLE CLAMP	(D.I., C.I., A.C.) **
(D)		SERVICE SADDLE CLAMP	(P.V.C.)
(E)		WATER MAIN PIPE	(D.I., C.I., A.C., P.V.C.)
(F)		WATER MAIN PIPE	(DUCTILE IRON (D.I.) ONLY)

* FURNISHED BY UTILITY AGENCY

** DI & CI PIPE MAY BE DIRECT TAPPED

Control valve

1. GENERAL

A. Before backfilling around valve box, get ENGINEER's inspection of drain installation. System must be pressurized during inspection.

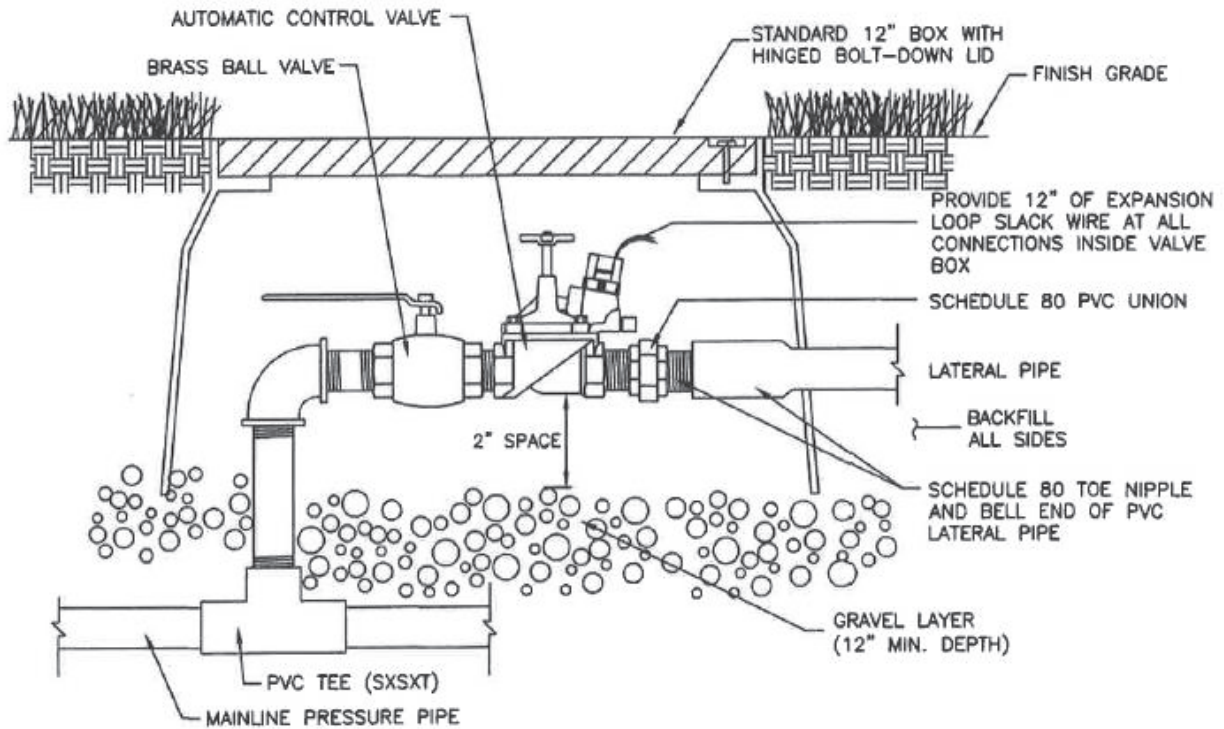
2. PRODUCTS

A. Backfill: APWA Section 31 05 13.
 1) Gravel with a maximum particle size 2-inches.
 2) Native soil.

3. EXECUTION

A. Install automatic controllers and wiring per manufacturer's recommendations.

NARRATIVE: USE SCHEDULE 80 THREADED PIPING



SXSXT = SLIP BY SLIP
 BY THREAD CONNECTIONS

Junction box

1. GENERAL

- A. Set all junction boxes to match grade of surrounding terrain.
- B. Other junction boxes subject to ENGINEER's acceptance.

2. PRODUCTS

A. Junction Box:

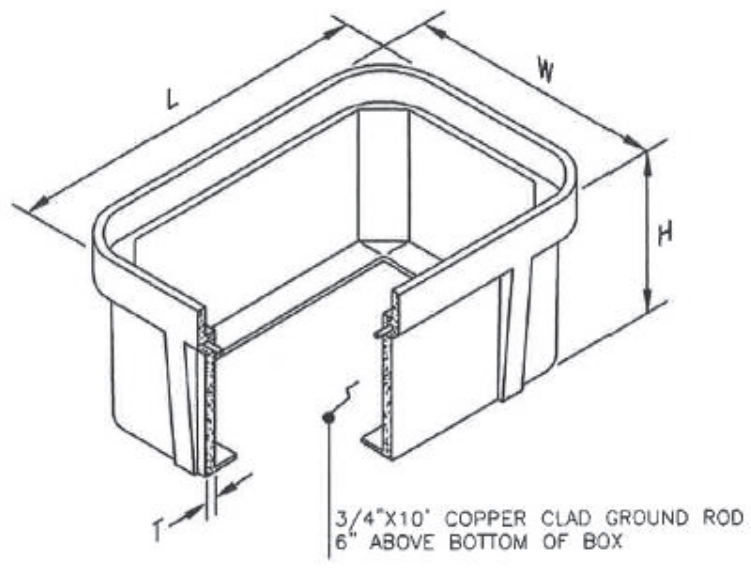
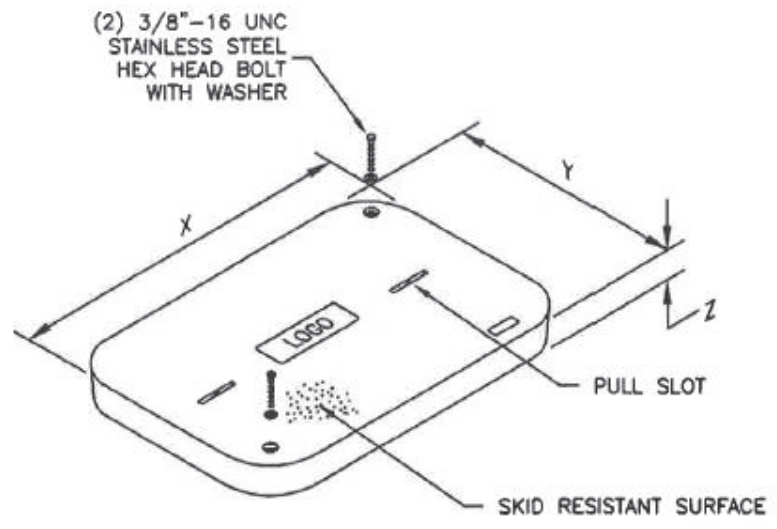
- 1) Support wheel load of 12,000 pounds and a maximum deflection of 1/2" with 8,000 pound load using a 10"x10" load.
- 2) Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
- 3) Logo
 - "SIGNAL" for signals
 - "STREET LIGHTING" for street lights
 - "SIGNAL" for interconnects
- 4) Made from polymer concrete consisting of sand and aggregate bound together with a polymer resin complying as a complete unit with the following properties

Property	ASTM	Polymer Concrete
Tensile Strength	C496	1,700 psi
Flexural Strength	D790	7,500 psi
Impact Resistance	D2444	72 foot-pounds
<i>Compressive Strength</i>	<i>C109</i>	<i>11,000 psi</i>
Effects of Acids	D543	Very Resistant
Effects of Alkalizes	D543	Very Resistant
Skid Resistance		0.50 coefficient

- B. Bolts, Nuts, Washers, Accessories: Stainless steel, APWA Section 05 05 23.

3. EXECUTION

- A. Cast conduit holes in junction box at the time of casting or drill at time of placement with no structural damage to box.
- B. Make all drilled holes match the outside diameter of the conduit.
- C. Ground: Install ground rod with each box installation.



TYPE AND DIMENSIONS							
TYPE	L	W	H	T	X	Y	Z
I	20 1/4	13 3/8	12	1/2	18 1/8	11 1/4	1 3/4
II	32 1/4	19 1/4	18	1 1/4	30 1/2	17 1/2	2
III	37 5/8	26	24	2	35 5/8	24	3
D	49 5/8	32 1/8	24	2	47 5/8	30 1/8	3

Screw-in base street light pole

1. GENERAL

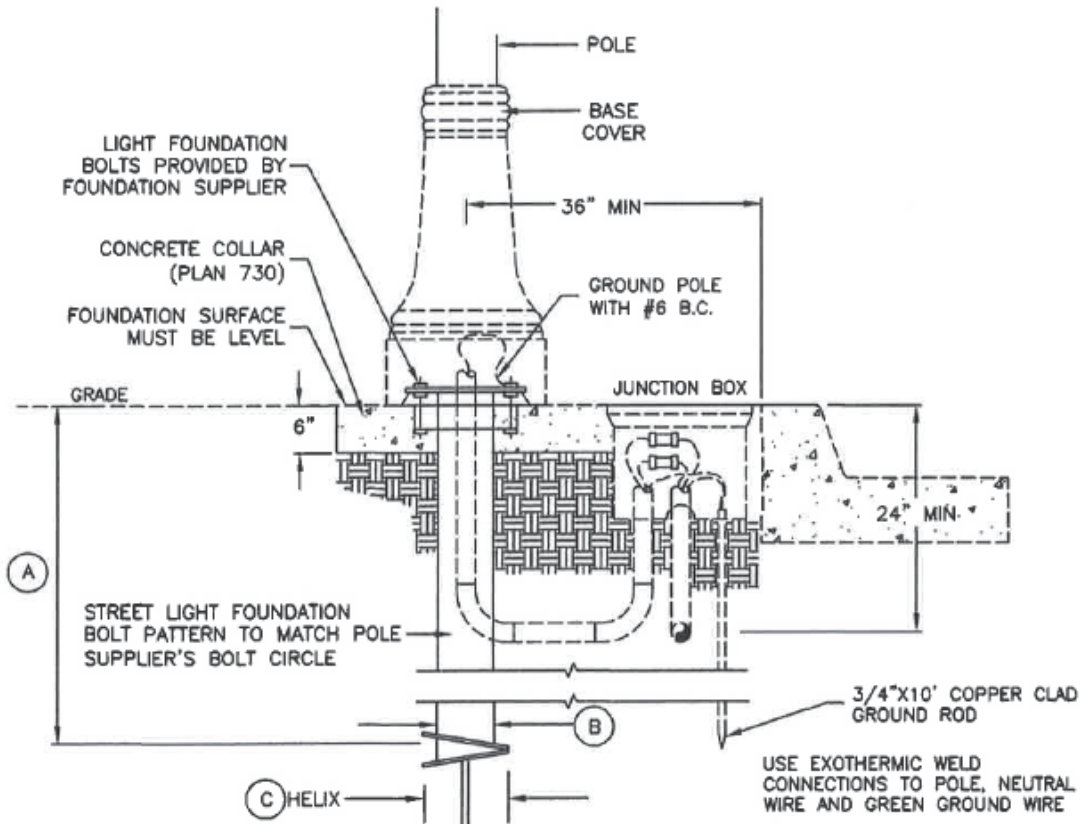
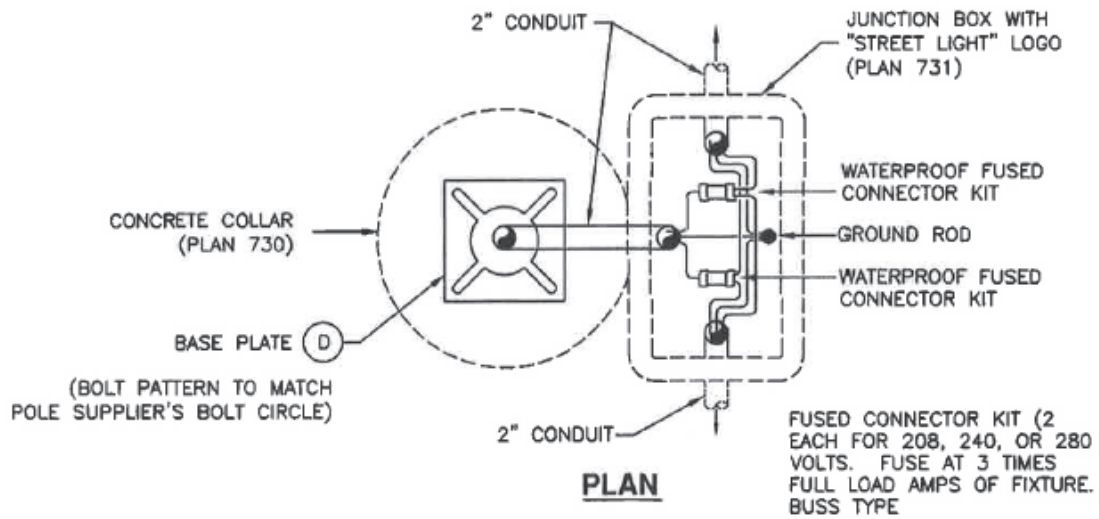
- A. Before screwing in the base, use key holing procedure or other procedure to verify position of underground utilities and pipelines.

2. PRODUCTS

- A. Concrete: Class 4000, APWA Section 03 30 04.
- B. Ground Cover: Match existing, APWA Section 32 93 13.
- C. Screw-in Base: Material and dimensions to meet or exceed manufacturer's recommendations.
- D. Bolts, Nuts, Washers, Accessories: Stainless or galvanized steel, APWA Section 05 05 23.
- E. Conduit: PVC schedule 40.

3. EXECUTION

- A. Keyhole to verify pole placement and protect utilities, APWA Section 31 23 16.
- B. Before concrete placement, place all conduits in same trench where possible.



POLE SIZE	LENGTH (A)	SHAFT (B)	HELIX (C)	PLATE (D)
8'-15'	60"	6.6"	12"	3/4"x12" SQ
16'-20'	60"	6.6"	12"	1"x15 3/4" SQ
21'-30'	84"	8.6"	14"	1"x15 3/4" SQ

ELEVATION

CONCRETE SIDEWALK

NOTES:

1. UNTREATED BASE COURSE: PROVIDE MATERIAL SPECIFIED IN APWA SECTION 32 11 23. DO NOT USE GRAVEL WITHOUT ENGINEERS PERMISSION. PLACE PER APWA SECTION 32 05 10. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8-INCHES AFTER COMPACTION.

2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.

- A. IF NECESSARY, PROVIDE CONCRETE THAT ACHIEVES DESIGN STRENGTH IN LESS THAN 7 DAYS. USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
- B. PLACE PER APWA SECTION 03 30 10.
- C. UNLESS SHOWN OTHERWISE, PROVIDE 1/2 INCH RADIUS ON CONCRETE EDGES EXPOSED TO PUBLIC VIEW.
- D. APPLY A CURING COMPOUND PER APWA SECTION 03 39 00 OR USE AN ACCEPTABLE ALTERNATE CURING METHOD

3. EXPANSION JOINTS: FULL DEPTH 1/2 INCH THICK TYPE F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE.

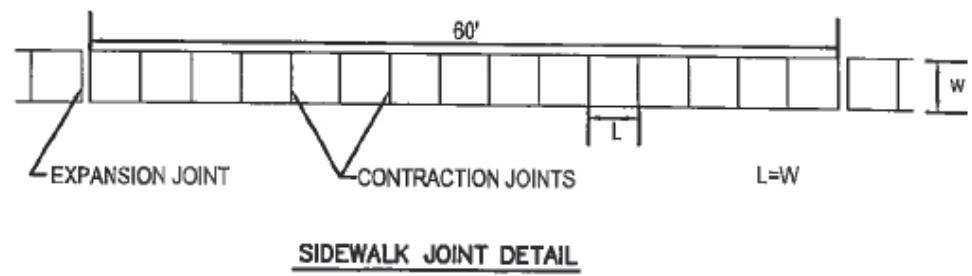
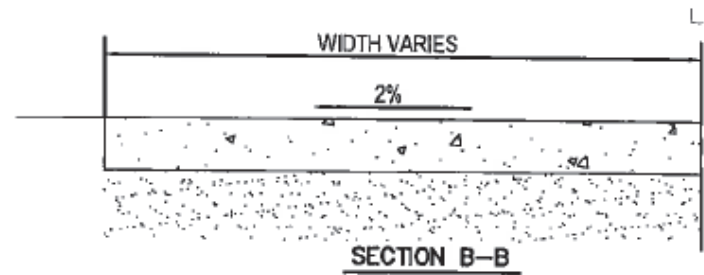
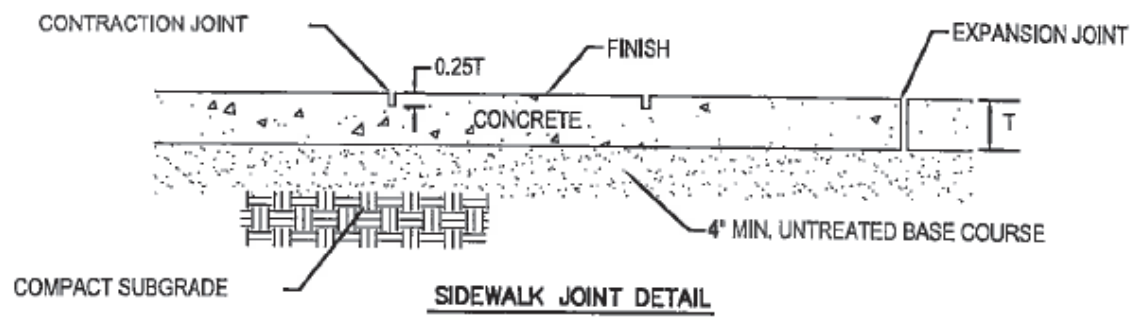
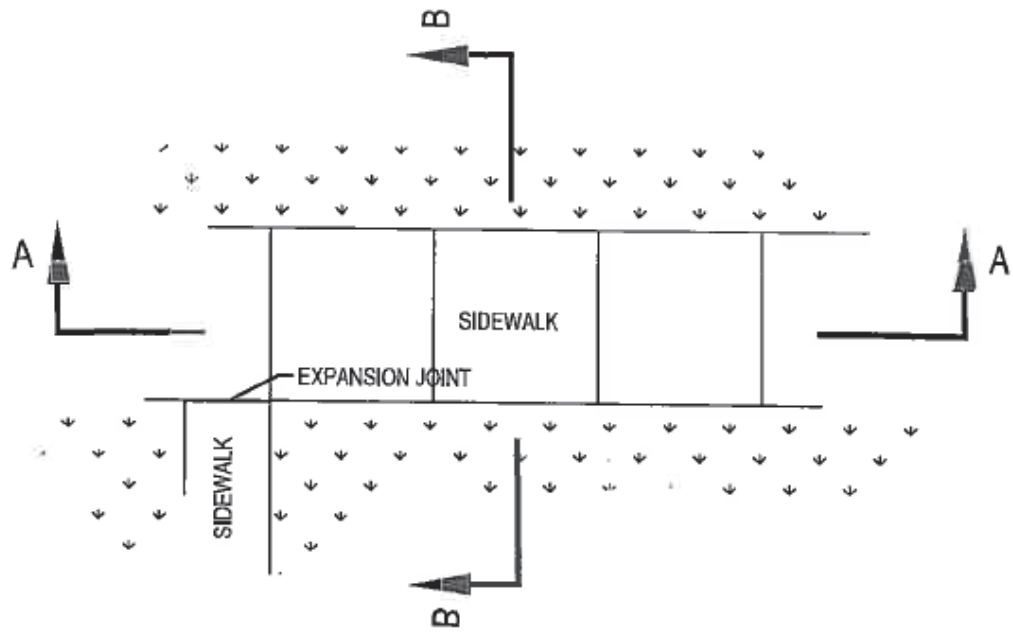
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8 INCH WIDE, AND 1 INCH DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 4 INCHES THICK.

5. FINISH: BROOMED

6. DEPTH OF SIDEWALK (T):

- A. NEW CONSTRUCTION: NOMINAL 6" IN RESIDENTIAL ZONES, 8" IN NON-RESIDENTIAL ZONES.
- B. REMOVAL AND REPLACEMENT CONSTRUCTION: MATCH EXISTING.

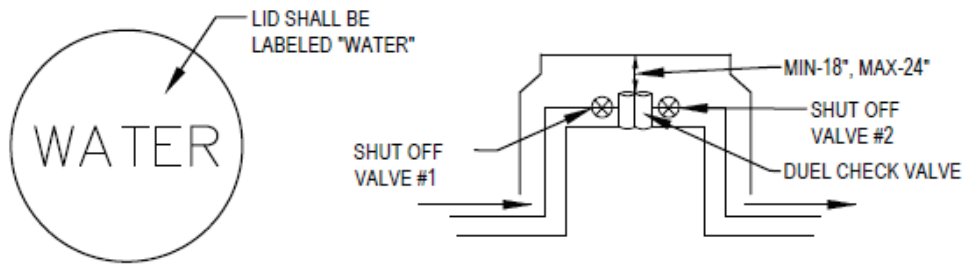
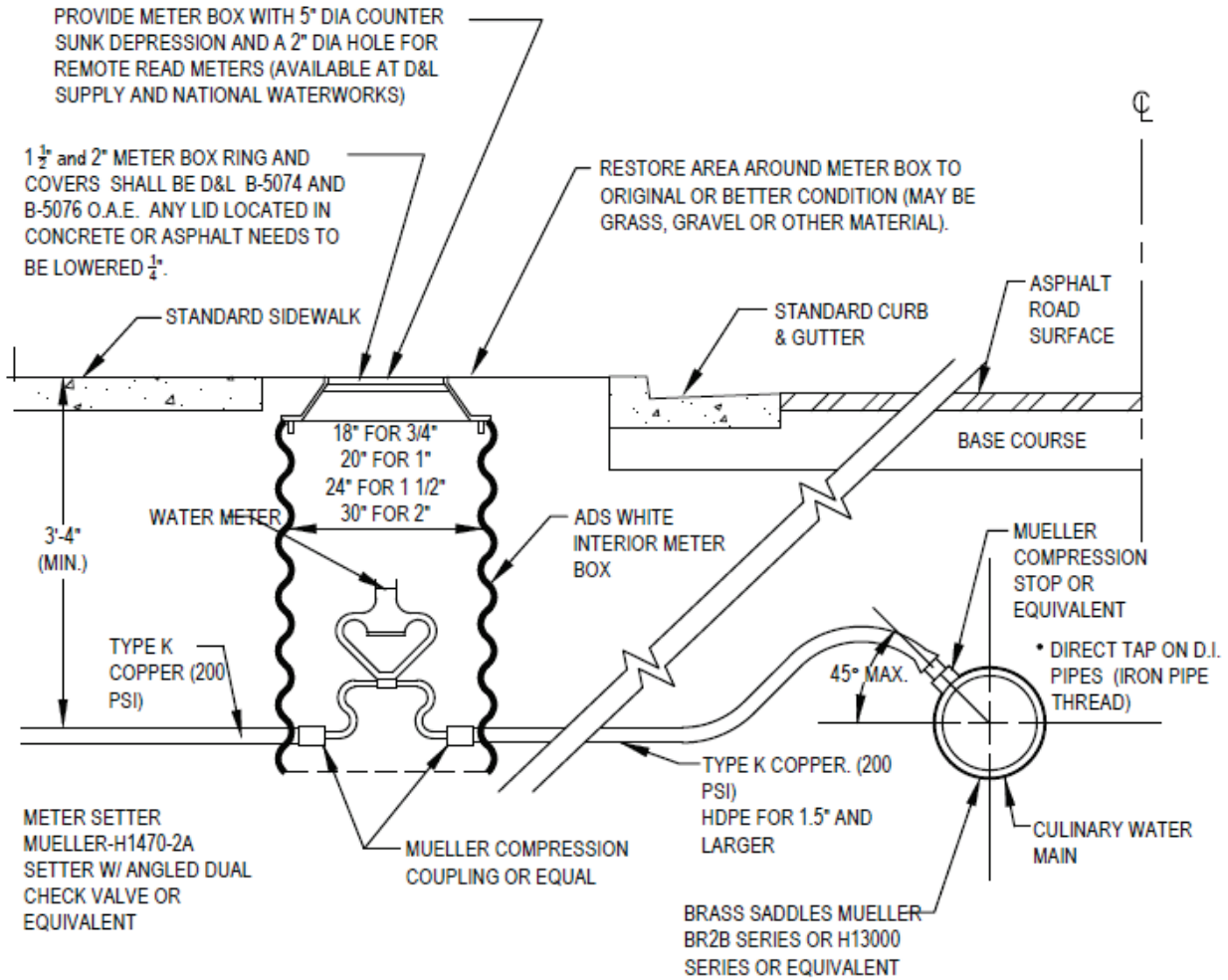
* MICRO -SYNTHETIC FIBERS SHALL BE ADDED TO THE CONCRETE MIX DESIGN. MICRO-SYNTHETIC FIBERS SHALL SERVE TO REDUCE PLASTIC SHRINKAGE CRACKING, REDUCE WATER MIGRATION, AND DAMAGE FROM FREEZE/THAW AND IMPROVE DURABILITY. FIBERS SHALL CONFORM TO ASTM 116/C 1116M, TYPE III FIBER REINFORCED CONCRETE AND SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.



WATER SERVICE CONNECTION

NOTES:

1. 10'-0" MIN. EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER LATERAL SERVICE.
2. WHERE WATER AND SEWER LATERALS MUST CROSS, WATER LATERAL SHALL BE 18" ABOVE THE SEWER LATERAL AS MEASURED FROM THE BOTTOM TO TOP OF PIPES. THIS SEPERATION SHALL BE MAINTAINED FOR AT LEAST 10'-0" EITHER SIDE OF CROSS POINT.
3. NO METER BOXES SHALL BE INSTALLED IN DRIVE APPROACHES OR SIDEWALKS.
4. MINIMUM LATERAL SIZE 3/4".
5. 1" METERS REQUIRE-20" METER BOX DIA.
6. PRIOR TO BACKFILLING AROUND METER BOX SECURE INSPECTION OF INSTALLATION FROM CITY.
7. BACKFILL: PROVIDE AND PLACE PER APWA SECTION 33 05 20. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95-PERCENT OR GREATER. MAXIMUM LIFT THICKNESS IS 8-INCHES BEFORE COMPACTION.
8. PRESSURE TEST ALL WATERLINES AND SERVICES
9. WATER LATERALS ARE TO BE LOCATED 5' OFF OF THE PROPERTY LINE. WATER METERS ARE NOT TO BE RELOCATED AFTER INSTALLATION.
10. TYPE K COPPER PIPE IS PREFERRED ON LATERALS. HDPE PIPE CAN BE USED IF TRACER WIRE IS INSTALLED WITH THE LATERAL.
11. WATER LATERALS ARE TO BE INSTALLED AT 90° ANGLES FROM THE WATER MAIN AND EXTEND STRAIGHT OFF THE CORP STOP WHERE POSSIBLE (EXCEPTIONS WILL BE ALLOWED IN CUL-DE-SACS)
12. COORDINATE WITH THE CITY FOR INSTALLATION OF METERS LARGER THAN 1".
13. IT IS THE HOMEOWNERS RESPONSIBILITY TO MAINTAIN VALVE AND METER BOXES ON THEIR PROPERTY TO ENSURE THAT THEY ARE EXPOSED, ACCESSABLE AND AT GRADE.
14. 1 1/2" METERS REQUIRE-24" METER BOX DIA.
15. 2" METERS REQUIRE-30" METER BOX DIA. WITH A 30" TRAFFIC RATED RING AND COVER.



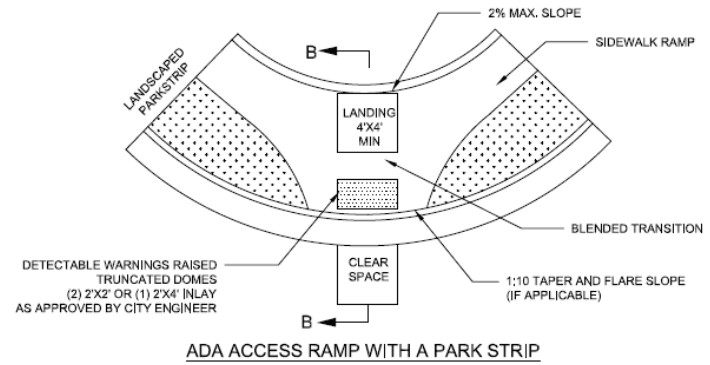
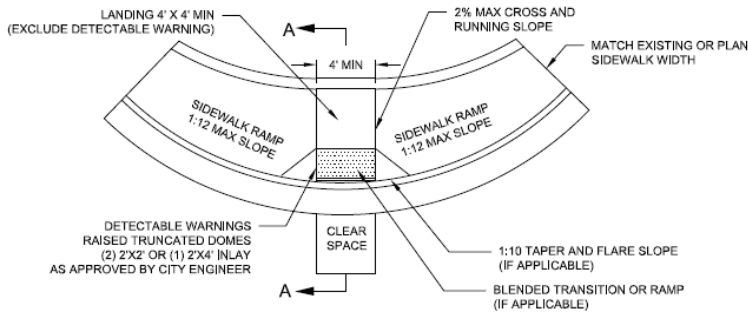
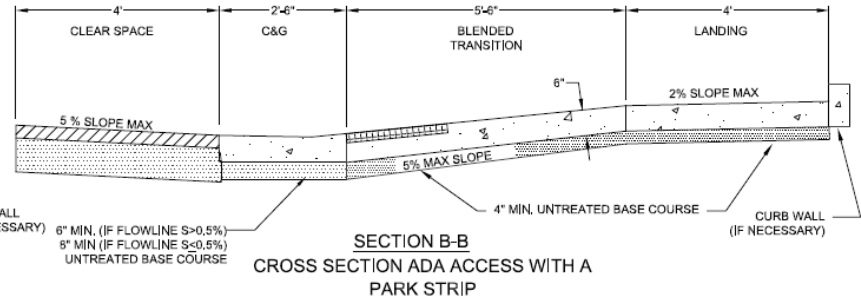
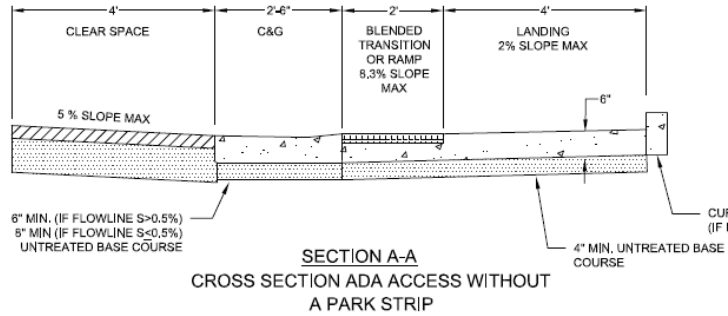
3/4" - 2" WATER SERVICE CONNECTION

PLAN NO. 521 SP

DRAWING 1 OF 1

REVISED 02/04/14

UTAH TRANSIT AUTHORITY



ADA ACCESS RAMP WITHOUT A PARK STRIP

ADA ACCESS RAMP WITH A PARK STRIP

GENERAL NOTES

- ALL CURB, GUTTER, SIDEWALK AND DRIVE APPROACHES SHALL BE DESIGNED AND STAMPED BY A LICENSED ENGINEER OR LAND SURVEYOR AND SHALL SUBMIT A PLAN AND PROFILE DRAWING TO THE CITY ENGINEER FOR APPROVAL.
- THE CITY ENGINEER WILL REQUIRE A LAYOUT INSPECTION.
- 24 HR. NOTICE WILL BE REQUIRED FOR ALL CONCRETE INSPECTIONS. THE INSPECTOR MAY INSPECT THE FOLLOWING:
 - A) DENSITY TESTS
 - B) GRADE VERIFICATION
 - C) SLUMP TESTS
 - D) AIR ENTRAINMENT TESTS
 - E) EXPANSION JOINT PLACEMENT
 - F) COMPRESSION CYLINDER TESTS
- CONCRETE
 - A) CONCRETE SHALL BE CLASS 4000 AS PER APWA SECTION 03 30 04
 - B) CONCRETE SHALL BE 6.5 BAG MAX
 - C) SLUMP SHALL BE LESS THAN 4"
 - D) AIR ENTRAINMENT SHALL BE 6% +/- 1%
- CURB AND GUTTER SHALL BE APWA STANDARD PLAN NO. 205 TYPE A.
- SIDEWALK SHALL ADHERE TO APWA STANDARD PLAN 231. SIDEWALK SHALL BE 6" THICK FOR ALL SIDEWALK IN RESIDENTIAL AREAS AND 8" IN COMMERCIAL. DRIVE APPROACHES SHALL BE 8" THICK FOR RESIDENTIAL AND 8" FOR COMMERCIAL, OR SPECIFIED BY PROJECT ENGINEER.
- FLARED DRIVE APPROACH SHALL BE APWA STANDARD PLAN NO. 221.
- WATERWAY SHALL BE APWA STANDARD PLAN NO. 211.
- REINFORCEMENT STEEL SHALL MEET REQUIREMENTS OF APWA SECTION 03 20 09.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE RED RAISED TRUNCATED DOMES.
- SIDEWALK RAMP DETECTABLE WARNINGS SHALL BE 2'x4' INLAYS AND SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO INSTALLATION.
- CONCRETE PLACED IN COLD WEATHER CONDITIONS WILL BE PLACED IN ACCORDANCE WITH ACI 308R REQUIREMENTS.
- SEE APWA STANDARD PLANS 235 TO 238 FOR ADDITIONAL INSTALLATION DETAILS.
- TYPE D CURB AND GUTTER INSTALLATION MUST BE APPROVED IN WRITING BY THE CITY ENGINEER PRIOR TO INSTALLATION.

MAXIMUM SLOPES

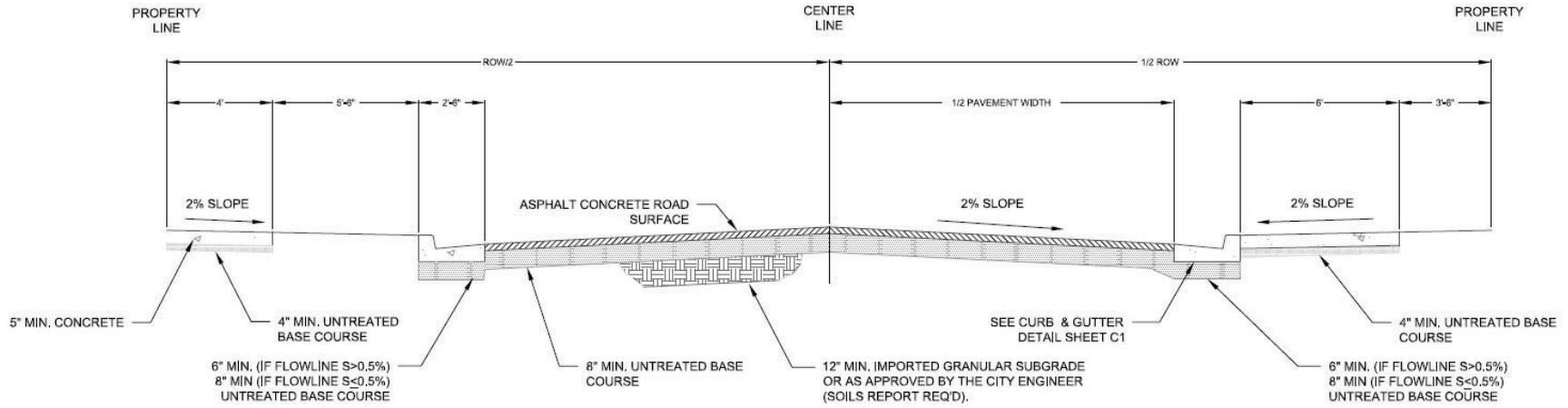
	RUNNING SLOPE	CROSS SLOPE
LANDING	1:48 (2%)	1:48 (2%)
RAMP	1:12 (8.33%)	1:48 (2%)
CLEAR SPACE	1:20 (5%)	1:48 (2%)
BLENDED TRANSITION	1:20 (5%)	1:48 (2%)

DATE	REVISIONS	MADE BY
4/10	GENERAL REVISIONS	MSP
4/15	GENERAL REVISIONS	CTZ
4/19	GENERAL REVISIONS	CTZ



MURRAY CITY CORPORATION
ENGINEERING DEPARTMENT
4846 SOUTH 500 WEST
MURRAY, UT 84123
801.270.6400

MURRAY CITY
ADA ACCESS SIDEWALK RAMP
DETAILS C - 1



ROADWAY SECTION ROW*

*SIDEWALK, PARK STRIP AND ROAD WIDTHS VARY IN THE MU, TOD AND MCCD ZONES

ROADWAY SECTION				
CLASSIFICATION	ROW (FT)	PAVEMENT WIDTH (FT)	LANES	PAVEMENT THICKNESS (IN)
ALLEY	25 TO 30	22 TO 25	2	3
RESIDENTIAL	49 TO 60	25 TO 35	2	3
MINOR COLLECTOR	60 TO 66	35 TO 40	2 TO 3	4
MAJOR COLLECTOR	66 TO 80	40 TO 60	2 TO 5	5 TO 6
MINOR ARTERIAL	66 TO 80	40 TO 60	3 TO 5	6 TO 7

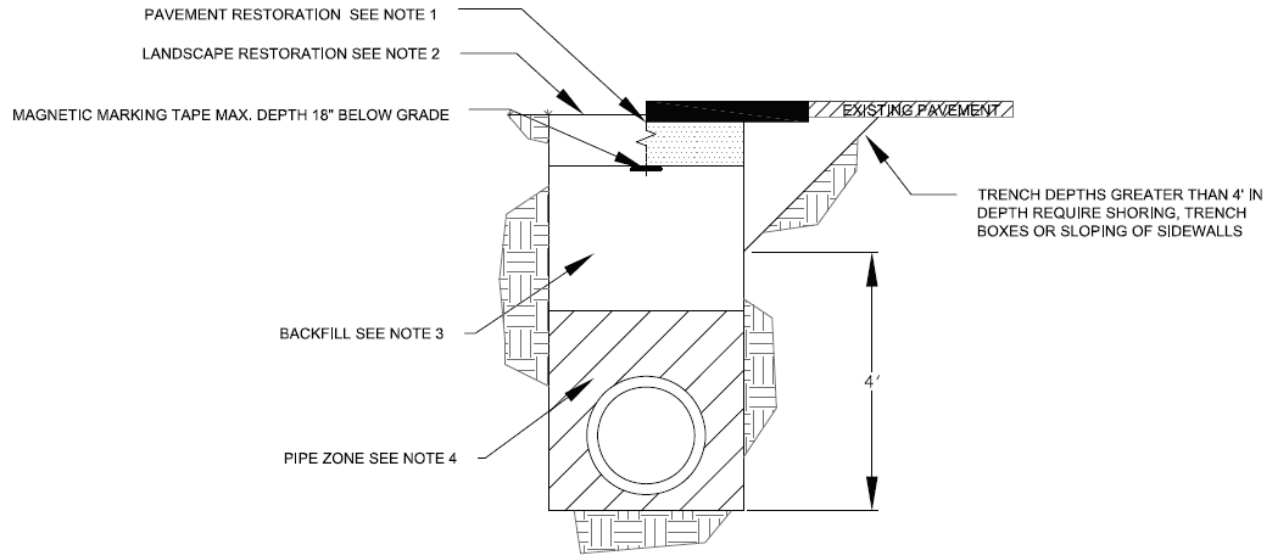
DATE	REVISIONS	MADE BY
4/19	GENERAL REVISIONS	MSP
4/18	GENERAL REVISIONS	CTZ
4/18	GENERAL REVISIONS	CTZ



MURRAY CITY CORPORATION
 ENGINEERING DEPARTMENT
 4846 SOUTH 500 WEST
 MURRAY, UT 84123
 801 270-2400

MURRAY CITY

ROADWAY DETAIL
 DETAILS C - 5



TRENCH BACKFILL

NOTES

1. DO NOT INSTALL ASPHALT OR CONCRETE SURFACING UNTIL TRENCH COMPACTION IS ACCEPTED BY ENGINEER. SEE PLAN 255 OR 256 OF 2017 APWA STANDARD PLANS.
2. PROVIDE 4" OF COMPACTED TOPSOIL AND MATCH TO EXISTING GRADE. PLACE VEGETATION TO MATCH PRE-EXISTING CONDITIONS.
3. GRANULAR BACKFILL BORROW MATERIAL TO BE A-1 CLASSIFICATION WITH A MAXIMUM PARTICLE SIZE OF 2". UNCOMPACTED LIFT THICKNESS TO BE A MAXIMUM OF 6" AND PLACED ACCORDING TO 2007 APWA SECTION 31 05 15. FLOWABLE FILL TO BE LOW STRENGTH (60 PSI) PER APWA SECTION 31 05 15.
4. PIPE ZONE MATERIAL TO BE PLACE ACCORDING TO 2017 APWA STANDARD PLAN 362.

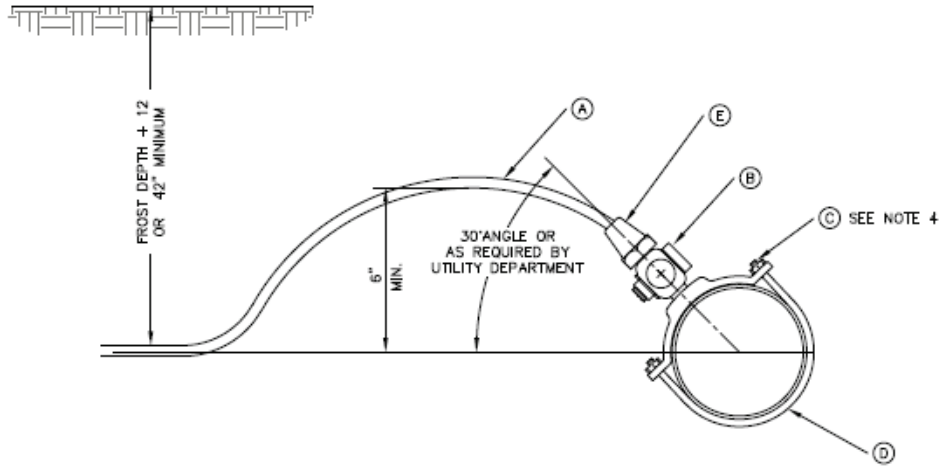
DATE	REVISIONS	MADE BY
2/13	GENERAL REVISIONS	MSP
2/18	GENERAL REVISIONS	CTZ
5/19	GENERAL REVISIONS	CTZ



MURRAY CITY CORPORATION
 ENGINEERING DEPARTMENT
 454E SOUTH 500 WEST
 MURRAY, UT 84125
 801 276-2400

MURRAY CITY

TRENCH BACKFILL
 DETAIL C - 7



TYPE A – SADDLE CLAMP TAP

No.	ITEM	LEGEND	
		DESCRIPTION 3/4"	DESCRIPTION 1"
(A)	SERVICE PIPE	POLYETHYLENE IPS-ID 200 PSI SIDR-7 "BLUE" NSF APPROVED	POLYETHYLENE IPS-ID 200 PSI SIDR-7 "BLUE" NSF APPROVED
(B)	CORPORATION STOP	BRASS FORD FB 500-3	BRASS FORD FB 500-4
(C)	SERVICE SADDLE CLAMP	BRASS DOUBLE STRAP MUELLER: H 16109 FOR 8" FORD: 202B-962-IP3 MUELLER: H 16113 FOR 10" FORD: 202B-1212-IP3 MUELLER: H 16116 FOR 12" FORD: 202B-1438-IP3	 MUELLER: H 16109 FOR 8" FORD: 202B-962-IP4 MUELLER: H 16113 FOR 10" FORD: 202B-1212-IP4 MUELLER: H 16116 FOR 12" FORD: 202B-1438-IP4
(D)	WATER MAIN PIPE	PVC or D I PIPE	
(E)	CONNECTIN FITTING FROM PIPE TO CORPORATION STOP	MUELLER INSTA-TITE H-15456 RPS NON-FLARED x INSTA-TITE	MUELLER INSTA-TITE H-15456 RPS NON-FLARED x INSTA-TITE

NOTES:

1. INSPECTION: PRIOR TO BACKFILLING AROUND TAPS, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER APWA SECTION 33-05-20.
3. TAPPING: PLACE TAPS A MINIMUM OF 24 INCHES APART. USE A TAPPING TOOL WHICH IS SIZED CORRESPONDING TO THE SIZE OF THE SERVICE LINE TO BE INSTALLED. NO TAPS WITHIN 24 INCHES OF THE END OF THE PIPE.
4. SERVICE SADDLE: A SERVICE SADDLE CLAMP IS REQUIRED ON ALL PIPE TAPS.
5. TEFLON TAPE: TEFLON TAPE IS REQUIRED ON ALL TAPS.

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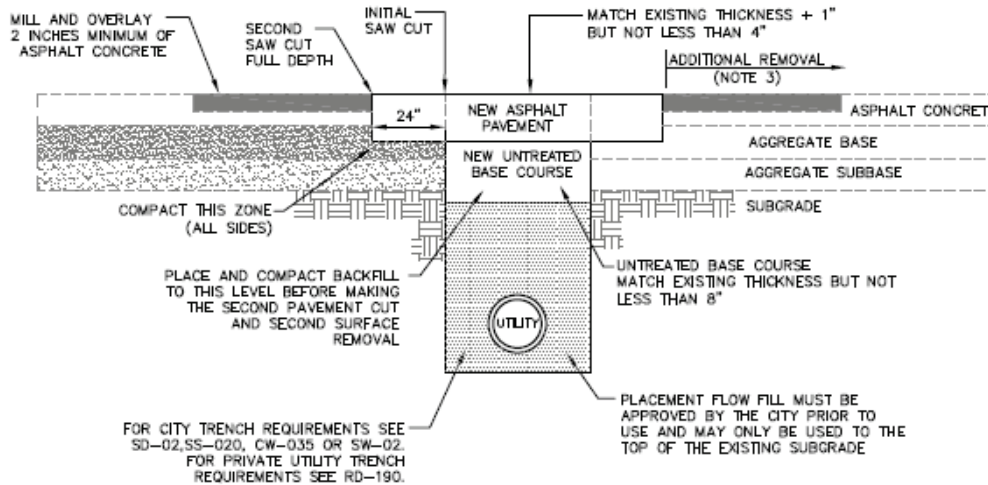
City of West Jordan, Utah



**SERVICE TAPS FOR
3/4 " AND 1" LATERALS**

PLAN
CW-105

ASPHALT TRENCH RESTORATION



ASPHALT TRENCH RESTORATION CONSTRUCTION NOTES

1. ENCROACHMENT PERMIT: ALL WORK INSIDE WEST JORDAN RIGHT OF WAY REQUIRES AN APPROVED ENCROACHMENT PERMIT. COPY OF PERMIT SHALL BE HELD ON-SITE.

2. INSPECTION REQUIREMENTS: CITY MUST BE NOTIFIED FOR THE FOLLOWING INSPECTION APPOINTMENTS 48 HOURS IN ADVANCE:

- A. NOSE-ON OR TAP.
- B. BACKFILL AND COMPACTION.
- C. ROAD BASE COMPACTION.
- D. PREPARATION OF SURFACE FOR ASPHALT.
- E. ASPHALT PLACEMENT AND COMPACTION.

SURFACE RESTORATION SHALL BE DONE WITHIN 48 HOURS OF EXCAVATION, UNLESS OTHERWISE APPROVED BY THE CITY. TRAFFIC SHALL NOT BE PLACED ON UNTREATED BASE UNLESS APPROVED BY THE CITY. CONTRACTOR SHALL COVER ALL UNATTENDED EXCAVATIONS WITH STEEL PLATES.

CONTRACTOR SHALL PROVIDE THE CITY WITH A COPY OF THE DENSITY TESTING RESULTS PRIOR TO ASPHALT PLACEMENT.

3. ADDITIONAL PAVEMENT REMOVAL:

- A. PARALLEL TRENCH: COLLECTOR OR ARTERIAL STREETS - REMOVE ADDITIONAL PAVEMENT TO A PAINTED LANE STRIPE, A LIP OF GUTTER OR AN EDGE OF THE PAVEMENT. RESIDENTIAL STREETS - REMOVE ADDITIONAL PAVEMENT FROM THE LIP OF GUTTER TO THE CENTER OF THE STREET. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVEMENT RESTORATION IF DEEMED APPROPRIATE TO RESTORE THE ROADWAY TO THE ORIGINAL CONDITION.
- B. PERPENDICULAR TRENCH: REPAIR TRENCH AS DESCRIBED IN THE STANDARD PLAN. MILL AND OVERLAY PAVEMENT 10 FEET EACH WAY FROM THE EDGE OF THE SECOND SAW CUT. CONTRACTOR SHALL COMBINE MULTIPLE TRENCH CUTS INTO ONE RESTORATION PATCH. THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL PAVEMENT RESTORATION GREATER THAN 10 FEET IF DEEMED APPROPRIATE TO RESTORE THE ROADWAY TO THE ORIGINAL CONDITION.
4. NEW UNTREATED BASE COURSE: PROVIDE AGGREGATE CLASS "A" UNTREATED BASE COURSE MATERIAL SPECIFIED IN APWA SECTION 32 11 23. DO NOT USE GRAVEL OR SEWER ROCK. PLACE NEW MATERIAL PER APWA 32 05 10. COMPACT PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT IN LIFTS NOT EXCEEDING 6 INCHES THICK AFTER COMPACTION.
5. TACK COAT: PLACE AS SPECIFIED IN APWA SECTION 32 12 13.13. PROVIDE FULL TACK COAT COVERAGE ON ALL VERTICAL SURFACES.
6. ASPHALT PAVEMENT: USE PG-64-34 DM 1/2 HOT MIX ASPHALT CONCRETE AS SPECIFIED IN APWA SECTION 33 12 05. RAP SHALL BE NO MORE THAN 15 PERCENT OF THE MIX. INSTALL PER APWA SECTION 32 12 16.13 IN MAXIMUM 3 INCH LIFTS. COMPACT TO 94 PERCENT OF ASTM D2041 (RICE METHOD) PLUS OR MINUS TWO PERCENT. ASPHALT PLACED AFTER APRIL 15 AND PRIOR TO MARCH 1 WILL BE CONSIDERED TEMPORARY AND MUST BE REPLACED AFTER MARCH 1.
7. PATCH REPAIRS: REPAIR THE FOLLOWING CONDITIONS DURING THE CORRECTION PERIOD.
 - A. PAVEMENT SURFACE DISTORTION EXCEEDS 1/4 INCH DEMATION IN 10 FEET. REPAIR OPTION: PLANE OFF SURFACE DISTORTIONS. COAT WITH AN EMULSION THAT COMPLIES WITH APWA 32 12 03 AND PROVIDE SAND BLOTTER.
 - B. CRACKS 1/4 WIDE AND 1 FOOT LONG OCCUR MORE OFTEN THAN 1 IN 10 SQUARE FEET. REPAIR OPTION: CRACK SEAL PER APWA 32 01 17.
 - C. ASPHALT RAVELING IS GREATER THAN 1 SQUARE FOOT IN 10 SQUARE FEET. REPAIR OPTION: MILL AND INLAY.

DRAWING UPDATED JUNE, 2019

City of West Jordan, Utah

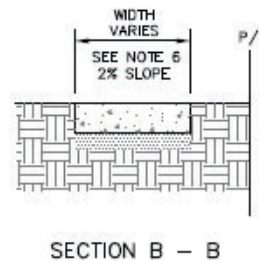
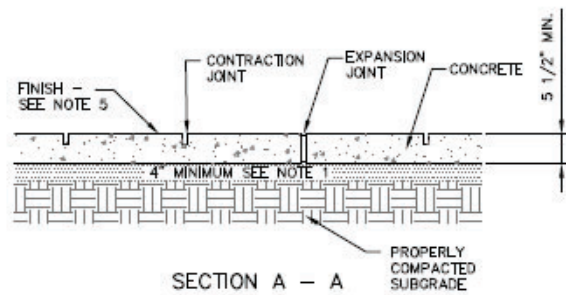
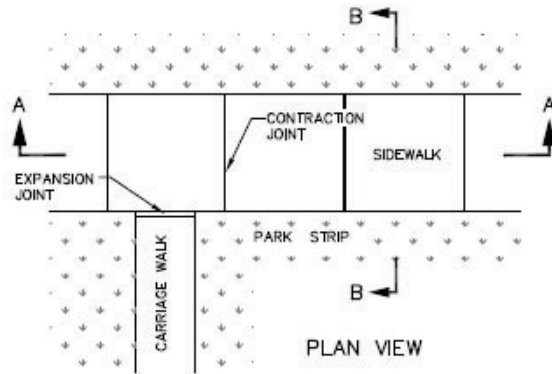


STANDARD TRENCH EXCAVATION RESTORATION

PLAN
RD175

NOTES:

1. UNTREATED BASE COURSE: USE CLASS A UNTREATED BASE COARSE GRADE 1 OR GRADE 3/4 PER APWA SECTION 32 11 23. USE OF SEWER ROCK OR RECYCLED AGGREGATE REQUIRES ENGINEER'S WRITTEN APPROVAL.
 - A. PLACE BACKFILL MATERIAL PER APWA SECTION 32 05 10.
 - B. COMPACT BACKFILL MATERIAL PER APWA SECTION 31 23 26 TO A MODIFIED PROCTOR DENSITY OF 95 PERCENT OR GREATER.
2. CONCRETE: CLASS 4000 PER APWA SECTION 03 30 04.
 - A. IF NECESSARY, PROVIDE CONCRETE WHICH ACHIEVES DESIGN STRENGTH IN 72 HOURS (3 DAYS). USE CAUTION, HOWEVER, AS SPIDER CRACKS DEVELOP IF AIR TEMPERATURE EXCEEDS 90 DEGREES F.
 - B. PLACE CONCRETE PER APWA SECTION 03 30 10.
 - C. PROVIDE 1/2 INCH RADIUS ON ALL EXPOSED CONCRETE EDGES UNLESS OTHERWISE SHOWN.
 - D. APPLY A SEALING/CURING COMPOUND PER APWA SECTION 03 39 00. (TYPE ID CLASS A; CLEAN WITH FUGITIVE DYE)
 - E. PROTECT CONCRETE FROM PREMATURE DRYING, HOT OR COLD TEMPERATURES, GRAFFITI, AND MECHANICAL INJURY.
 - F. REPLACE CONCRETE DAMAGED BY MECHANICAL INJURY, OR THAT DOES NOT CONFORM TO REQUIRED LEVELS, LINES, DETAILS AND ELEVATIONS.
3. EXPANSION JOINTS:
 - A. PROVIDE FULL DEPTH 1/2 INCH THICK F1 JOINT FILLER MATERIAL PER APWA SECTION 32 13 73. SET TOP OF FILLER FLUSH WITH SURFACE OF CONCRETE. PLACE EXPANSION JOINTS EVERY 50 FEET.
 - B. EXPANSION JOINTS ARE NOT REQUIRED IN SLIP FORM WORK EXCEPT AT THE START OR END OF THE WORK DAY, AND AT THE START OR END OF A STREET INTERSECTION CURB RADIUS RETURN.
4. CONTRACTION JOINTS: MAKE CONTRACTION JOINTS VERTICAL, AT LEAST 1/8" WIDE, AND 2 INCHES DEEP OR 1/4 SLAB THICKNESS IF THE SLAB IS GREATER THAN 8 INCHES THICK. PLACE CONTRACTION JOINTS EVERY 10 FEET.
5. FINISH: FINE HAIR BRUSH ON LONGITUDINAL GRADES LESS THAN 6 PERCENT. ROUGH GRADE BRUSH ON LONGITUDINAL GRADES GREATER THAN 6 PERCENT.
6. WIDTH OF SIDEWALK: 5 FOOT MINIMUM WIDTH ON RESIDENTIAL AND COLLECTOR ROADWAYS. 6 FOOT MINIMUM WIDTH ON ARTERIAL STREET AND WHEN ADJACENT TO CURB.
7. REBAR: CONTRACTOR TO USE 3/4 INCH COATED DEFORMED DOWELS ON 5 FEET MAXIMUM CENTERS WHEN SIDEWALK IS ADJACENT TO CURB AND GUTTER.



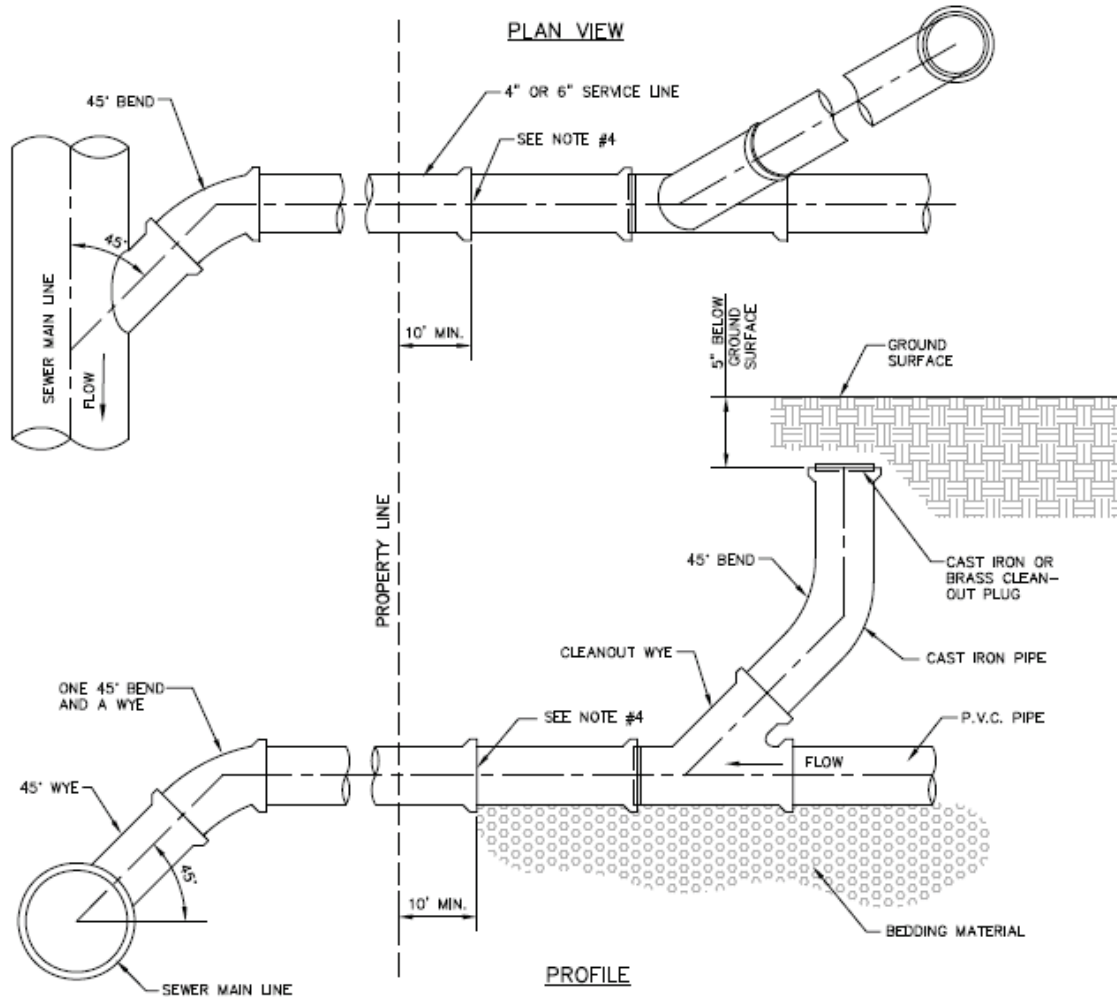
DRAWING UPDATED JUNE, 2019

City of West Jordan, Utah



STANDARD SIDEWALK

PLAN
RD200



NOTES:

1. INSPECTION:
 - A. PRIOR TO INSTALLATION, SECURE ACCEPTANCE BY ENGINEER FOR ALL PIPE, FITTINGS, AND COUPLINGS.
 - B. PRIOR TO BACKFILLING SEWER LATERAL, SECURE INSPECTION OF INSTALLATION BY ENGINEER.
2. INSTALLATION:
 - A. PROVIDE WEST JORDAN CITY UTILITIES DEPARTMENT APPROVED WYE OR TEE WITH APPROPRIATE DONUT.
 - B. TAPE WRAP PIPE AS REQUIRED BY SOIL CONDITIONS.
 - C. CORE OUT PLUG IN SEWER MAIN. DO NOT BREAK INTO SEWER MAIN TO MAKE CONNECTION.
 - D. CONSTRUCT 4 INCH LATERALS WITH MINIMUM 2% SLOPE.
 - E. CONSTRUCT 6 INCH LATERALS WITH MINIMUM 1% SLOPE.
3. BACKFILL: INSTALL AND COMPACT ALL BACKFILL MATERIAL PER APWA SECTION 33 05 20.
4. LOCATION: CONTRACTOR TO MARK LATERAL WITH A PIN IN THE CURB AND RECORD LOCATION.

RAWING UPDATED JANUARY 2020

City of West Jordan, Utah



SANITARY SEWER LATERAL

PLAN
SS-25

UTA Operator Relief Room Construction-Farmington Station

Exhibit B- Cost Form

General Contractor Calvin L Wadsworth LLC

Total Project Lump Sum Cost (from below) **\$ 399,848**

Instructions: Fill in the Subtotal, Total and Total Project Cost.

Bid Item No.	Division Specification: General Description of included items **	Unit	Quantity	Total Cost
1	Traffic Control/Flagging	LS	1	\$ 1,875
2	Climatized Precast Building	LS	1	\$ 154,000
3	Sewer Utility Connections	LF	103	\$ 23,022
4	Water Utility Connections	LF	34	\$ 9,890
5	Power Utility Connections	LF	128	\$ 14,443
6	SR II Low Lead Water Meter	EA	1	\$ 10,000
7	Directional Boring	LF	205	\$ 15,364
8	6" Concrete Pad and Footing For Building	SQ FT	570	\$ 7,729
9	30" Subbase Under Concrete Pad For Building	CU YD	53	\$ 4,030
10	6" Sidewalk	SQ FT	78	\$ 3,200
11	6" Subbase Under Sidewalk	CU YD	2	\$ 800
12	Grading	SQ YD	170	\$ 7,027
13	Relocate Irrigation Valves	LS	1	\$ 2,500
14	Remove Existing Tree	EA	2	\$ 600
Subtotal Bid Items				\$ 254,480
	General Conditions and Mobilization			\$ 66,885
	Bonding			\$ 5,000
	Profit and Overhead			\$ 73,483
Total (including Subtotal Bid Items, GCs, Mobilization, Bonding, Profit and Overhead)				\$ 399,848

All Items to include what is necessary to obtain a finished and operational project (including but not limited to pavement restoration for utility connections, junction boxes, manholes, fittings, etc. for utility connections, materials disposal, labor, equipment, permits)

UTA Operator Relief Room Construction-Fashion Place West Station					
Exhibit B- Cost Form					
General Contractor			Calvin L Wadsworth LLC		
Total Project Lump Sum Cost				(from below)	\$ 465,846
Instructions: Fill in the Subtotal, Total and Total Project Cost.					
Bid Item No.	Division Specification: General Description of included items **	Unit	Quantity	Total Cost	
1	Traffic Control/Flagging	LS	1	\$ 2,500	
2	Climatized Precast Building	LS	1	\$ 154,000	
3	Sewer Utility Connections	LF	210	\$ 33,376	
4	Water Utility Connections	LF	190	\$ 38,596	
5	Power Utility Connections	LF	440	\$ 45,500	
6	Directional Boring	LF	140	\$ 8,725	
7	Replace Curb and Gutter	LF	30	\$ 3,225	
8	Replace Pedestrian Ramp	SF	40	\$ 2,180	
9	6" Concrete Pad and Footing For Building	SQ FT	730	\$ 10,120	
10	30" Subbase Under Concrete Pad For Building	CU YD	68	\$ 5,290	
11	Grading	SQ YD	105	\$ 5,547	
Subtotal Bid Items				\$ 309,059	
	General Conditions and Mobilization			\$ 68,369	
	Bonding			\$ 5,000	
	Profit and Overhead			\$ 83,418	
Total (including Subtotal Bid Items, GCs, Mobilization, Bonding, Profit and Overhead)				\$ 465,846	
All Items to include what is necessary to obtain a finished and operational project (including but not limited to pavement restoration for utility connections, junction boxes, manholes, fittings, etc. for utility connections, materials disposal, labor, equipment, permits)					

UTA Operator Relief Room Construction-Jordan Valley Station

Exhibit B- Cost Form

General Contractor Calvin L Wadsworth LLC

Total Project Lump Sum Cost

(from
below) \$ 438,719

Instructions: Fill in the Subtotal, Total and Total Project Cost.

Bid Item No.	Division Specification: General Description of included items **	Unit	Quantity	Total Cost
1	Traffic Control/Flagging	LS	1	\$ 2,500
2	Climatized Precast Building	LS	1	\$ 154,000
3	Sewer Utility Connections	LF	37	\$ 19,536
4	Water Utility Connections	LF	84	\$ 30,109
5	Power Utility Connections	LF	412	\$ 42,700
6	Directional Boring	LF	220	\$ 13,200
7	6" Concrete Pad and Footing For Building	SQ FT	646	\$ 7,929
8	30" Subbase Under Concrete Pad For Building	CU YD	60	\$ 909
9	6" Sidewalk	SQ FT	328	\$ 6,560
10	6" Subbase Under Sidewalk	CU YD	6	\$ 1,200
11	Grading	SQ YD	195	\$ 8,775
Subtotal Bid Items				\$ 287,418
	General Conditions and Mobilization			\$ 66,885
	Bonding			\$ 5,000
	Profit and Overhead			\$ 79,416
Total (including Subtotal Bid Items, GCs, Mobilization, Bonding, Profit and Overhead)				\$ 438,719
<p>**All Items to include what is necessary to obtain a finished and operational project (including but not limited to disposal of contaminated soil off-site, pavement restoration for utility connections, junction boxes, manholes, fittings, etc. for utility connections, materials disposal, labor, equipment, permits)**</p>				

UTA Operator Relief Room Construction-Midvale Central Station				
Exhibit B- Cost Estimate Form				
General Contractor			Calvin L Wadsworth LLC	
Total Project Lump Sum Cost				(from below) \$444,576
Instructions: Fill in the Subtotal, Total and Total Project Cost.				
Bid Item No.	Division Specification: General Description of included items **	Unit	Quantity	Total Cost
1	Traffic Control/Flagging	LS	1	\$ 1,875
2	Climatized Precast Building	LS	1	\$ 154,000
3	Sewer Utility Connections	LF	160	\$ 42,233
4	Water Utility Connections	LF	50	\$ 22,500
5	Power Utility Connections	LF	320	\$ 33,500
6	Directional Boring	LF	325	\$ 7,800
7	Replace Curb and Gutter	LF	5	\$ 500
8	6" Concrete Pad and Footing For Building	SQ FT	646	\$ 8,157
9	30" Subbase Under Concrete Pad For Building	CU YD	60	\$ 3,000
10	6" Sidewalk	SQ FT	265	\$ 2,650
11	6" Subbase Under Sidewalk	CU YD	5	\$ 4,926
12	Grading	SQ YD	110	\$ 4,950
13	Remove Existing Tree	EA	1	\$ 600
14	Remove and Replace Street Light & Junction Box	LS	1	\$ 5,000
Subtotal Bid Items				\$ 291,691
	General Conditions and Mobilization			\$ 67,885
	Bonding			\$ 5,000
	Profit and Overhead			\$ 80,0000
Total (including Subtotal Bid Items, GCs, Mobilization, Bonding, Profit and Overhead)				\$ 444,576
All Items to include what is necessary to obtain a finished and operational project (including but not limited to pavement restoration for utility connections, junction boxes, manholes, fittings, etc. for utility connections, materials disposal, labor, equipment, permits)				

UTA Operator Relief Room Construction-Fort Union Station

Exhibit B- Cost Form

General Contractor Calvin L. Wadsworth LLC

Total Project Lump Sum Cost **(from below) \$511,192**

Instructions: Fill in the Subtotal, Total and Total Project Cost.

Bid Item No.	Division Specification: General Description of included items **	Unit	Quantity	Total Cost
1	Traffic Control/Flagging	LS	1	\$ 1,875
2	Climatized Precast Building	LS	1	\$ 154,000
3	Sewer Utility Connections	LF	868	\$ 109,029
4	Water Utility Connections	LF	143	\$ 36,619
5	Power Utility Connections	LF	125	\$ 14,000
6	Directional Boring	LF	130	\$ 7,800
7	Replace Curb and Gutter	LF	5	\$ 500
8	6" Concrete Pad and Footing For Building	SQ FT	570	\$ 741
9	30" Subbase Under Concrete Pad For Building	CU YD	53	\$ 3,180
10	6" Sidewalk	SQ FT	205	\$ 4,080
11	6" Subbase Under Sidewalk	CU YD	4	\$ 1,200
12	Grading	SQ YD	125	\$ 7,090
13	Remove Tree	EA	2	\$ 1,200
14	Relocate Irrigation Valves	LS	1	\$ 2,500
15	Remove and Replace Street Lighting and Junction Box	EA	1	\$ 2,000
Subtotal Bid Items				\$ 345,814
	General Conditions and Mobilization			\$ 69,885
	Bonding			\$ 5,000
	Profit and Overhead			\$ 90,493
Total (including Subtotal Bid Items, GCs, Mobilization, Bonding, Profit and Overhead)				\$ 511,192

All Items to include what is necessary to obtain a finished and operational project (including but not limited to pavement restoration for utility connections, junction boxes, manholes, fittings, etc. for utility connections, materials disposal, labor, equipment, permits, dust mitigation plan and implementation.