UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
WILLARD CANAL 6.2L LATERAL
PLAIN CITY C-3 & C-3-3.4R DRAINS
WEBER BASIN PROJECT

EASEMENT ENCROACHMENT AGREEMENT
BETWEEN THE
UNITED STATES OF AMERICA
AND
WEBER COUNTY CORPORATION
AND
STEWARD LAND

This Easement Encroachment Agreement made this 11th day of January 2023, pursuant to the Act of Congress of June 17, 1902 (32 Stat. 388), and acts amendatory thereof or supplementary thereto, all of which acts are commonly known and referred to as Reclamation Laws, among the UNITED STATES OF AMERICA and its assigns, hereinafter referred to as the United States and WEBER COUNTY CORPORATION and STWARD LAND, hereinafter referred to as the Permittees.

WITNESSETH THAT:

WHEREAS, the United States is the Grantee of certain easements recorded in the official records of Weber County, State of Utah, hereinafter referred to as the Easement of the United States; and

WHEREAS, the Permittees have requested permission of the Landowner to cross the Landowner's property in such a manner as to encroach upon the Easement of the United States in a manner more particularly specified hereinafter; and

WHEREAS, the United States is willing to agree to said encroachment, upon conditions more particularly specified hereinafter;

NOW, THEREFORE, the United States hereby agrees to encroachment upon the Easement of the United States by the Permittee only to the extent and for the purposes set forth below:

The Permittees will install, operate, and maintain four (4) separate crossings across United States land acquired for the Willard Canal, Weber Basin Project. The first crossing will be an asphalt roadway with associated curb and gutter. The other crossings will be sewer mains of different sizes.

- **Crossing No. 1:** The Permittee or their contractor will construct, operate, and maintain an asphalt roadway with associated curb and gutter across the 24-inch Reinforced Concrete Pipe (RCP) Willard Canal Lateral 6.2L between approximate pipeline Stations 38+15 and 42+64, near the location where "Street "B"" will cross the canal lateral in unincorporated Weber County, Utah. No work is permitted to leave the lateral pipeline with less than 30-

inches of cover nor to be covered with any more than 6-feet of cover. The pipeline is protected by Willard Canal Lateral Easement Tract 12 (Dickerson), the location of which is in the NE ¼ of Section 27, Township 7 North, Range 2 West, Salt Lake Base and Meridian.

- **Crossing No. 2:** The Permittee or their contractor will install, operate, and maintain one (1) 10-inch diameter PVC sanitary sewer main (sewer main) across the 24-inch RCP Willard Canal Lateral 6.2L at approximate pipeline Station 47+10, near the location where "Street "A" crosses the canal lateral in unincorporated Weber County, Utah. The sewer main must be installed and centered within a steel casing (casing) of sufficient size as directed by the Weber Basin Water Conservancy District's (District) inspector. The casing must span the entire width of the United States Easement and be welded into one solid stick. At this crossing no allowance for removal of the drain pipelines or lateral pipeline will be made. They must be protected in place and left un-disturbed. The sewer main will be installed using conventional open trenching methods and must maintain a minimum vertical separation of 12-inches between the casing and the Canal Lateral, if the minimum clearance cannot be obtained, no less than 4-inches of crushable barrier must be placed between the sewer casing and the land drain as approved by the District inspector. The pipeline is protected by Willard Canal System Easement Tract 12 (Dickerson), the location of which is in the NE ¼ of Section 27, Township 7 North, Range 2 West, Salt Lake Base and Meridian.

- **Crossing No. 3:** The Permittee or their contractor will install, operate, and maintain one (1) 10-inch diameter PVC sanitary sewer main that will cross the 12-inch NCP Plain City C-3-3.4R Drain (Land Drain) at approximate pipeline Station 12+90, near the southwest corner of the residential development in unincorporated Weber County, Utah. The sewer main must be installed and centered within a steel casing (casing) of sufficient size as directed by the District inspector. The casing must span the entire width of the United States Easement and be welded into one solid stick. At this crossing no allowance for removal of the drain pipelines or lateral pipeline will be made. They must be protected in place and left un-disturbed. **The drainpipe is extremely fragile at this crossing**, and the sewer main will be installed using conventional open trenching methods, therefore, a minimum vertical separation of 12-inches must be maintained between the casing and the Canal Lateral. The pipeline is protected by Plain City Drain Easement Tract 19 (Christensen), the location of which is in the NE ½ of the SE ¼ of Section 27, Township 7 North, Range 2 West, Salt Lake Base and Meridian.

- **Crossing No. 4:** The Permittee or their contractor will install, operate, and maintain one (1) 10-inch diameter PVC sanitary sewer main that will cross the 18-inch NCP Plain City C-3 Drain (Land Drain) at approximate Station 188+55, in the southeast corner of the residential development in unincorporated Weber County, Utah. The sewer main must be installed and centered within a steel casing (casing) of sufficient size as directed by the District inspector. The casing must span the entire width of the United States Easement and be welded into one solid stick. At this crossing no allowance for removal of the drain pipelines or lateral pipeline will be made. They must be protected in place and left un-disturbed. The sewer main will be installed using conventional open trenching methods and must maintain a minimum vertical separation of 12-inches between the casing and the Canal Lateral, if the minimum clearance cannot be obtained, no less than 4-inches of

crushable barrier must be placed between the sewer casing and the land drain as approved by the District inspector. The drain pipeline is protected by Plain City C-3 Drain Easement Tract 3 (Stevens), the location of which is in the E ½ of the E ½ of Section 27, Township 7 North, Range 2 West, Salt Lake Base and Meridian.

The Permittee (Steward Land) shall be responsible and liable during construction of the encroachments and must adhere to the protections and conditions of this contract. If Steward Land sells the development, after execution of this agreement, any successor or assignee will be held to the same conditions as agreed to this agreement.

The Permittee (Weber County Corporation) will be responsible after construction and will operate and maintain the encroachments in perpetuity.

1. The federal agency is the Department of Interior, Bureau of Reclamation, represented by the officer executing this Agreement, his duly appointed successor, or his duly authorized representative.

2. The United States guidelines for agreeing to such encroachment upon the Easement of the United States are:

a. While installing any utility or roadway within the easement of the United States, the Permittee and/or their contactor shall protect any and all Bureau of Reclamation (BOR) facilities and promptly repair any damage under the direction of the District.

b. If at any time the drain(s) or the lateral, as a result of the work to install the encroachments, shall be the responsibility of the Permittee (Steward Land), their assignees or successors.

c. These licensed encroachments shall not increase the District's cost to operate and maintain the encroached Bureau of Reclamation (BOR) facilities. And, it is the District's intent to extend professional courtesy and protect in place any buried utility line. However, if the District, within reason, needs to remove any of the improvements herein licensed in order to effectively operate or maintain (including repairing or replacing) any of the encroached BOR facilities, the District will only be responsible for replacement and repair of the subgrade materials. The Permittee will be responsible for replacing their licensed encroachments at no cost to the District.

d. The allowable period of construction to be at the sole discretion of the District. In no case shall the construction of these encroachments be permitted to impeded or hinder the District's ability to operate and maintain the encroached facilities.

e. The Permittee or their contractor will be responsible to repair any damage done to the lateral pipe to the satisfaction of the District.

f. The Permittee or their Contractor shall notify the District no less than 48-hours in advance of the above-mentioned work so a District Inspector may be present to monitor activities.

g. Any operation and maintenance (present or future) work performed by Permittee or its assignees, or future homeowners, pertaining to this crossing inside the easement, be approved by the District in advance to coordinate necessary protection measures of the Willard Canal 6.2L Lateral and Plain City Drains C-3-3.4R & C-3 Drain (Land Drain).

h. If Permittee's encroachments are negatively impacted by the District or Reclamation during operation and maintenance of the encroached Reclamation facility, it will be the applicant's responsibility to restore their utility at no expense to the District.

i. The Permittee, their assigns or successors, are required to pothole all encroached pipelines, the District must be notified no less than 48-hours in advance so a District Representative may be present to witness the potholing.

j. Permittee, or its Assignees shall follow the guidelines and standards outlined in Bureau of Reclamation's "Engineering and O&M Guidelines for Crossings", a copy of which will be provided upon request or maybe acquired from Reclamation's Website at:
https://www.usbr.gov/pn/snakeriver/landuse/authorized/crossings.pdfShoring

k. Additional guidelines are shown on Exhibit "A," attached hereto and by this reference made a part hereof.

3. The Permittee or its Contractor shall perform all work within the encroachment area in accordance with the plans, drawings, guidelines, and maps attached hereto, and in a manner satisfactory to the United States and the District.

4. SEVERABILITY: Each provision of this use authorization shall be interpreted in such a manner as to be valid under applicable law, but if any provision of this use authorization shall be deemed or determined by competent authority to be invalid or prohibited hereunder, such provision shall be ineffective and void only to the extent of such invalidity or prohibition, but shall not be deemed ineffective or invalid as to the remainder of such provision or any other remaining provisions, or of the use authorization as a whole.

5. ILLEGAL USE: Any activity deemed to be illegal on Federal lands will be cause for immediate termination of the use authorization.

6. TERM OF AGREEMENT – REVOCATION/TERMINATION: This Agreement may be revoked by the United States upon thirty (30) days written notice to the Permittee: 1. For nonuse of the project lands by Permittee for a period of two (2) continuous years; or, 2. The United States determines that the Permittee's use of the land is no longer compatible with project purpose; or, 3. After failure of the Permittee to observe any of the conditions of this Agreement and on the tenth day following service of written notification on the Permittee of the termination because of failure to observe such conditions; or, 4. At the sole discretion of the United States.

7. HOLD HARMLESS: The Permittee hereby agrees to indemnify and hold harmless the United States, its employees, agents, and assigns from any loss or damage and from any liability on account of personal injury, property damage, or claims for personal injury or death arising out of the Permittee activities under this agreement.

(a) In consideration of the United States agreeing to encroachment upon the Easement of the United States by the Permittee, the Permittee hereby agrees to indemnify and hold the United States and the District, their agents, employees, and assigns, harmless from any and all claims whatsoever for personal injuries or damages to property when such injuries or damages directly or indirectly arise out of the existence, construction, maintenance, repair, condition, use or presence of the encroachment upon the Easement of the United States, regardless of the cause of said injuries or damages; provided, however, that nothing in this agreement shall be construed as releasing the United States or the District from responsibility for their own negligence. Nothing herein shall be deemed to increase the liability of the United States beyond the provisions of the Federal Tort Claims Act, Act of June 25, 1948, 62 Stat. 989 (28 U.S.C. §1346(b), 2671 et seq.) or other applicable law.

(b) In consideration of the United States agreeing to the Permittee encroaching upon the Easement of the United States, the Permittee agrees that the United States shall not be responsible for any damage caused to facilities, equipment, structures, or other property if damaged by reason of encroachment upon the Easement of the United States by the Permittee. The Permittee hereby releases the United States and the District, their officers, employees, agents, or assigns, from liability for any and all loss or damage of every description or kind whatsoever which may result to the Landowner from the construction, operation, and maintenance of Project works upon said lands, provided that nothing in this Agreement shall be construed as releasing the United States or the District from liability for their own negligence. Nothing herein shall be deemed to increase the liability of the United States beyond the provisions of the Federal Tort Claims Act, Act of June 25, 1948, 62 Stat. 989 (28 U.S.C. §1346(b), 2671 et seq.) or other applicable law.

(c) If the maintenance or repair of any or all structures and facilities of the United States located on the easement area should be made more expensive by reason of the existence of the encroachment improvements or works of the Permittee or its Contractor, the Permittee or its Contractor will promptly pay to the United States or the District, their agents or assigns, responsible for operation and maintenance of said structures or facilities, the full amount of such additional expense upon receipt of an itemized bill.

8. PROTECTION OF UNITED STATES INTERESTS: The Permittee shall comply with all applicable laws, ordinances, rules, and regulations enacted or promulgated by any Federal, state, or local governmental body having jurisdiction over the encroachment.

9. UNRESTRICTED ACCESS: The United States reserves the right of its officers, agents, and employees at all times to have unrestricted access and ingress to, passage over, and egress from all of said lands, to make investigations of all kinds, dig test pits and drill test holes, to survey for and construct reclamation and irrigation works and other structures incident to Federal Reclamation Projects, or for any purpose whatsoever.

10. OFFICIALS NOT TO BENEFIT: No member of Congress shall be admitted to any share or part of any contract or agreement made, entered into, or accepted by or on behalf of the United States, or to any benefit to arise thereupon.

11. SUCCESSORS IN INTEREST OBLIGATED: The provisions of this Agreement shall inure to the benefit of and be binding upon the heirs, executors, administrators, personal representatives, successors, and assigns of the parties hereto; provided, however, that no such heir, executor, administrator, personal representative, successor or assign of the Permittee shall have the right to use, alter, or modify the encroachment in a manner which will increase the burden of the encroachment of the Easement of the United States.

12. This agreement makes no finding as to the right, title, or validity of the Permittee or the encroaching interest, but merely defines the conditions under which the encroachment will not be deemed unreasonable by the United States.

13. In accordance with 43 CFR 429.16 Subpart D, any applicant requesting a right-of-use over Reclamation land has remitted a nonrefundable application fee of One Hundred Dollars ($100). The receipt of this application fee is hereby acknowledged, which amount represents the initial review of your application.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement the day and year first above written.

UNITED STATES OF AMERICA

Acting for:

By: Digitally signed by RICK BAXTER Date: 2023.01.11 08:17:08 -07'00'
Name: Kent Kofford
Title: Area Manager, Provo Area Office

PERMITTEE:
WEBER COUNTY CORPORATION

By:
Name:
Title:

STEWARD LAND

By:
Name:
Title:

CONCUR:
WEBER BASIN WATER CONSERVANCY DISTRICT

By:
Name: Scott Paxman
Title: General Manager

BN

EXHIBIT "A"

SPECIAL PROVISIONS

A. Surface structures that generally will be allowed to be constructed within United States rights-of-way include asphalt roadways, with no utilities within roadway, non-reinforced parking lots, curbs, gutters and sidewalks, walkways, driveways, fences with gated openings (no footings, foundation, and masonry block walls). However, where United States system pipe has specific maximum and minimum cover designation the special requirements for roadways, parking lots and driveways crossing over the pipe shall be obtained from the United States for the maximum allowable external loading or minimum cover. **HOWEVER, IT IS UNDERSTOOD THAT ALL SURFACE STRUCTURES SHALL BE ANALYZED AND CONSIDERED ON AN INDIVIDUAL BASIS.**

B. Structures that may not be constructed in, on, or along United States rights-of-way include but are not limited to, permanent structures such as buildings, garages, carports, trailers, and swimming pools as designated by the United States.

C. No trees or vines will be allowed within the rights-of-way of the United States.

D. All temporary or permanent changes in ground surfaces within United States rights-of-way are to be considered encroaching structures and must be handled as such. Earthfills and cuts on adjacent property shall not encroach onto United States rights-of-way without prior approval by the United States.

E. Existing gravity drainage of the United States rights-of-way must be maintained. No new concentration of surface or subsurface drainage may be directed onto or under the United States rights-of-way without adequate provision for removal of drainage water or adequate protection of the United States rights-of-way.

F. Prior to construction of any structure that encroaches within United States rights-of-way, an excavation must be made to determine the location of existing United States facilities. The excavation must be made by or in the presence of the District or the United States.

G. Any contractor or individual constructing improvements in, on, or along United States rights-of-way must limit his construction to the encroaching structure previously approved and construct the improvements strictly in accordance with plans or specifications.

H. The ground surfaces within United States rights-of-way must be restored to a condition equal to that which existed before the encroachment work began or as shown on the approved plans or specifications.

I. The owner of newly constructed facilities that encroach on United States rights-of-way shall notify the United States upon completion of construction and shall provide the United States with two copies of as-built drawings showing actual improvements in, on, or along the rights-of-way.

J. Except in case of ordinary maintenance and emergency repairs, an owner of encroaching facilities shall give the District at least 10 days notice in writing before entering upon United States rights-of-way for the purpose of reconstructing, repairing, or removing the encroaching structure or performing any work on or in connection with the operation of the encroaching structure.

K. If unusual conditions are proposed for the encroaching structure or unusual field conditions within United States rights-of-way are encountered, the United States reserves the right to impose more stringent criteria than those prescribed herein.

L. All backfill material within United States rights-of-way shall be compacted to 90 percent of maximum density unless otherwise shown. Mechanical compaction shall not be allowed within 6 inches of the projects works whenever possible. In no case will mechanical compaction using heavy equipment be allowed over the project works or within 18 inches horizontally of the projects works.

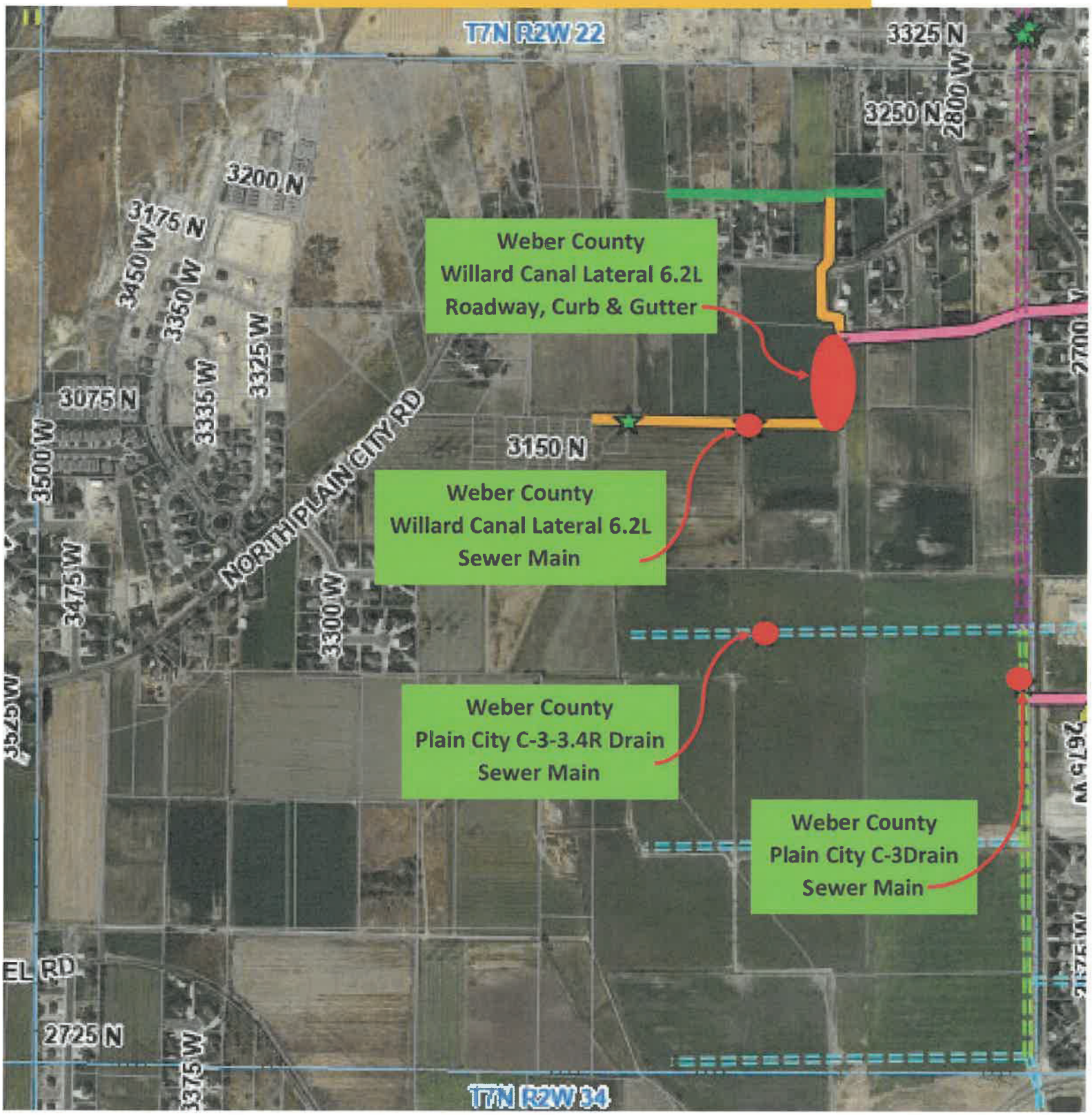
M. The backfilling of any excavation or around any structure within the United States rights-of-way shall be compacted in layers not exceeding 6 inches thick to the following requirements: (1) cohesive soils to 90 percent maximum density specified by ASTM Part 19, D-698, method A; (2) noncohesive soils to 70 percent relative density specified by ANSI/ASTM Part 19, d-2049, par. 7.1.2, wet method.

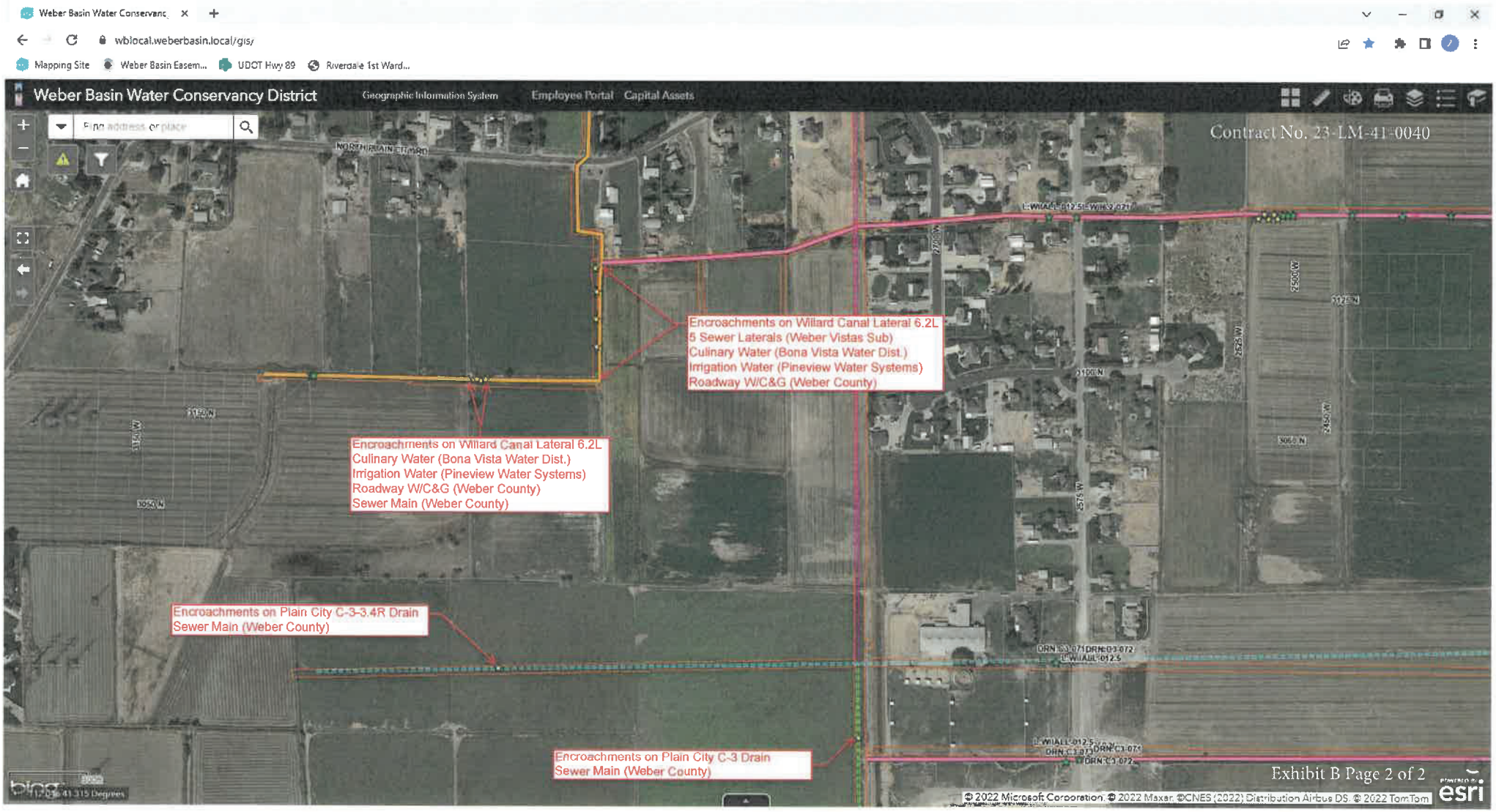
N. Any nonmetallic encroaching structure below ground level shall be accompanied with a metallic strip within the United States rights-of-way.

O. Owners of encroaching facilities shall notify the United States at least forty-eight (48) hours in advance of commencing construction to permit inspection by the United States.

P. No use of United States lands or rights-of-way shall be permitted that involve the storage of hazardous material.

SECTION 27 • TOWNSHIP 7 NORTH • RANGE 2 WEST




Weber Basin Water Conservanc
wblocal.weberbasin.local/gis/
Mapping Site
Weber Basin Easem...
UDOT Hwy 89
Riverdale 1st Ward...
Weber Basin Water Conservancy District
Geographic Information System
Employee Portal
Capital Assets
Find address or place
Contract No. 23-LM-41-0040
Encroachments on Willard Canal Lateral 6.2L
5 Sewer Laterals (Weber Vistas Sub)
Culinary Water (Bona Vista Water Dist.)
Irrigation Water (Pineview Water Systems)
Roadway W/C&G (Weber County)
Encroachments on Willard Canal Lateral 6.2L
Culinary Water (Bona Vista Water Dist.)
Irrigation Water (Pineview Water Systems)
Roadway W/C&G (Weber County)
Sewer Main (Weber County)
Encroachments on Plain City C-3-3.4R Drain
Sewer Main (Weber County)
Encroachments on Plain City C-3 Drain
Sewer Main (Weber County)
Exhibit B Page 2 of 2
© 2022 Microsoft Corporation © 2022 Maxar ©CNES (2022) Distribution Airbus DS © 2022 TomTom
esri

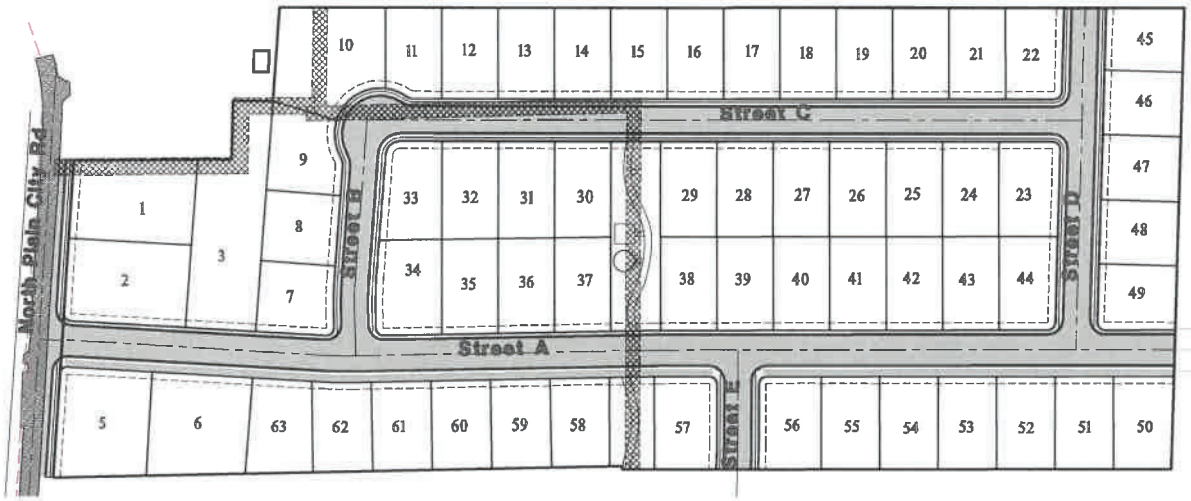
Project Narrative/Notes/Revisions

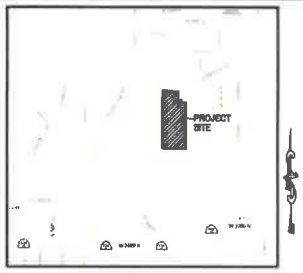
1. 2022/06/15 NF – COMPLETED DESIGN FOR CLIENT & CITY REVIEW.

WILLIAM/FOX PROPERTIES

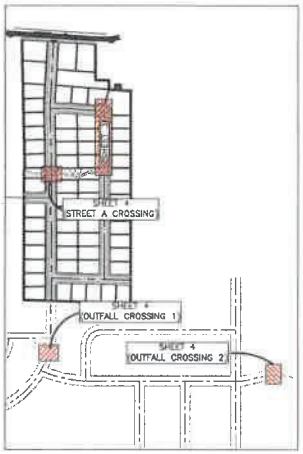
Bureau of Reclamation

PLAIN CITY, WEBER COUNTY, UTAH
JUNE, 2022





Vicinity Map
NOT TO SCALE



Sheet Index Key Map
NOT TO SCALE

Sheet Index

Sheet 1 - Cover/Index Sheet
Sheet 2 - Notes/Legend
Sheet 3 - Street C 5+00.00 - 10+00.00
Sheet 4 - Irrigation Cross Sections

Surveyor:
Trevor Hatch
Reeve & Associates, Inc.
5160 South 1500 West
Riverdale, Utah, 84405
PH:(801) 621-3100

811 Know what's below. Call before you dig.

Developer Contact:
Contact Name
Company Name
Address
City, State, Zip
PH: (000) 000-0000

Project Contact:
Nate Reeve
Reeve & Associates, Inc.
5160 South 1500 West
Riverdale, Utah, 84405
PH:(801) 621-3100

Notice:
THESE PLANS WERE CREATED UTILIZING COLORS FOR UTILITIES & OTHER INFRASTRUCTURE. IF PRINTED IN, OR COPIED TO BLACK & WHITE, SOME LINE WORK MAY NOT SHOW UP PROPERLY.

Engineer's Notice To Contractors:
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO CONTACT THE UTILITY COMPANIES AND TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN, AND ANY OTHER LINES OBTAINED BY THE CONTRACTOR'S RESEARCH, AND OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF REEVE & ASSOCIATES, INC., 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405, AND SHALL NOT BE PHOTOCOPIED, RE-DRAWN, OR USED ON ANY PROJECT OTHER THAN THE PROJECT SPECIFICALLY DESIGNED FOR, WITHOUT THEIR WRITTEN PERMISSION. THE OWNERS AND ENGINEERS OF REEVE & ASSOCIATES, INC. DISCLAIM ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS MADE TO THESE PLANS OR THE DESIGN THEREIN WITHOUT THEIR CONSENT.

Reeve & Associates, Inc.

REVISIONS
DATE | DESCRIPTION

Williams/Fox Properties
Bureau of Reclamation
PLAIN CITY, WEBER COUNTY, UTAH

Cover/Index Sheet

REGISTERED PROFESSIONAL ENGINEER
375629
J. NATE REEVE
06/15/2022
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: N. FICKLIN
Begin Date: MARCH 2022
Name: WILLIAMS/FOX PROPERTIES
Number: 7152-14

1
4 Total Sheets

General Notes:

1. ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY OF WH-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, AMERICAN PUBLIC WORKS ASSOCIATION (APWA), AND THE DESIGN ENGINEER. THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY, IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
2. CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
3. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT GOVERNING AGENCIES TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
7. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
8. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED, NO CONSTRUCTION OR EXCAVATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND EITHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF CONCRETING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
10. ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL RETAINING TO THE APPROPRIATE CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
11. ALL DIMENSIONS, GRADES & UTILITY CROSSING 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.
12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFORE HAND.
13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
16. CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTORS SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
17. CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATIONS OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE AT VARIANCE WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK AND ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTION FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER'S OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
20. CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
21. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND 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.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER. ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
23. IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND PROPERLY DISPOSING OF THE EXISTING IMPROVEMENTS. COST OF REMOVING AND REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
24. WHENEVER EXISTING FACILITIES ARE REMOVED, DAMAGED, BROKEN, OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE PLANS OR SPECIFICATIONS, SAID FACILITIES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE WITH MATERIALS EQUAL TO THE MATERIALS USED IN THE ORIGINAL EXISTING FACILITIES. THE FINISHED PRODUCT SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER, THE ENGINEER, AND THE RESPECTIVE REGULATORY AGENCY.
25. CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED, WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS RECORDED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
26. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE HIGHEST QUALITY ARE TO BE USED.
27. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING ON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PERIODS, UNUSUAL OR UNEVEN CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO TIE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.
29. CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4 FEET OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH LOCAL, STATE AND NATIONAL SAFETY CODES, ORDINANCES AND REQUIREMENTS FOR EXCAVATION AND TRENCHES.
30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

Utility Notes:

1. CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
2. EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS), PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE IN THE FIELD, THEIR MAIN AND SERVICE LINES 48 HOURS IN ADVANCE OF ANY EXCAVATION WORK. THE CONTRACTOR SHALL REQUIRE THE BLUE STAKES ORDER NUMBER FOR EACH UTILITY TO BE FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE MADE BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
3. CONTRACTOR SHALL POT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THAT MAY CREATE, DURING THE CONSTRUCTION PERIODS, UNUSUAL OR UNEVEN CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
4. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIREMENTS OF BLUE STAKES.
5. CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE.
6. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
7. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
8. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
9. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX
10. SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NOTED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
11. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
12. EACH TRENCH SHALL BE EXCAVATED SO THAT THE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DE-WATERED CONDITIONS.
13. CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
14. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
15. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
16. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
17. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
18. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" BELOW FINISHED GRADE.
19. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES. IF A 10 FOOT SEPARATION CAN NOT BE MAINTAINED, THE SEWER LINE AND WATER LINE SHALL BE LAID IN SEPARATE TRENCHES AND THE BOTTOM OF THE WATER LINE SHALL BE AT LEAST 18" ABOVE THE TOP OF THE SEWER LINE.
20. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE VABLE POINTS AND TEES.
21. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
22. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
23. THRUST BLOCKS & RESTRAINED JOINTS WITH MEGA-LUG ADAPTERS REQUIRED ON ALL BENDS AND FITTINGS USING SILLIC BOLTS. PROTECT ALL BOLTS FROM BEING ENGAGED IN CONCRETE. INSTALL PER MANUFACTURER RECOMMENDATIONS.

Notice to Contractor:

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON RECORDS OF THE VARIOUS UTILITY COMPANIES AND/OR MUNICIPALITIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.

THE CONTRACTOR AGREES THAT THEY 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. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.

NOTE:
1. SAWCUT EXISTING ASPHALT INSIDE FROM OUTER EDGE FOR TACK SEAL OF NEW ASPHALT
2. CONTRACTOR TO VERIFY 2% MIN. AND 5% MAX SLOPE FROM EDGE OF ASPHALT TO LIP OF GUTTER

Survey Control Note:

THE CONTRACTOR OR SURVEYOR SHALL BE RESPONSIBLE FOR FOLLOWING THE NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS (NSPS) MODEL STANDARDS FOR ANY SURVEYING OR CONSTRUCTION LAYOUT TO BE COMPLETED USING REEVE & ASSOCIATES, INC. SURVEY DATA OR CONSTRUCTION IMPROVEMENT PLANS. PRIOR TO PROCEEDING WITH CONSTRUCTION STAKING, THE SURVEYOR SHALL BE RESPONSIBLE FOR VERIFYING HORIZONTAL CONTROL FROM THE SURVEY MONUMENTS AND FOR VERIFYING ANY ADDITIONAL CONTROL POINTS SHOWN ON AN ALTA SURVEY, IMPROVEMENT PLAN, OR ANY ELECTRONIC DATA PROVIDED. THE SURVEYOR SHALL ALSO USE THE BENCHMARKS AS SHOWN ON THE PLAN AND VERIFY THEM AGAINST NO LESS THAN FIVE (5) EXISTING HARD IMPROVEMENT ELEVATIONS INCLUDED ON THESE PLANS OR ON ELECTRONIC DATA PROVIDED. IF ANY DISCREPANCIES ARE ENCOUNTERED, THE SURVEYOR SHALL IMMEDIATELY NOTIFY REEVE & ASSOCIATES, INC. AND RESOLVE THE DISCREPANCIES BEFORE PROCEEDING WITH ANY CONSTRUCTION STAKING.

Erosion Control General Notes:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO GOVERNING AGENCIES ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT OPEN FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS. THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE GOVERNING AGENCIES.

Maintenance:

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL PROJECT CLOSE-OUT.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

DESIGN SLOPES:

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHOD:
A) SPREADING DISTURBED AREAS WITH A TRACTOR VIA HYDROSEED
B) TRACKING STRAW PERPENDICULAR TO SLOPES
C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

EXHIBIT "A"

PROTECTION CRITERIA

A. Surface structures that generally will be allowed to be constructed within United States rights-of-way include asphalt roadways, with no utilities within roadway, non-reinforced parking lots, curbs, gutters and sidewalks, walkways, driveways. However where United States rights-of-ways specify specific maximum and minimum cover designations the special requirements for roadways, parking lots and driveways crossing over the pipe shall be obtained from the United States for the maximum allowable external loading or minimum cover. HOWEVER, IT IS UNDERSTOOD THAT ALL SURFACE STRUCTURES SHALL BE ANALYZED AND FURNISHED ON AN INDIVIDUAL BASIS.

B. Structures that may not be constructed in, on, or along United States rights-of-way include but are not limited to, permanent structures such as fences, retaining walls, block walls, buildings, garages, decks, carports, trailers, and swimming pools as designated by the United States

C. No trees or vines will be allowed within the rights-of-way of the United States.

D. All temporary or permanent changes in ground surfaces within United States rights-of-way are to be coordinated to by maintaining structures and must be handled as such. Earthfills and cuts on adjacent property shall not encroach onto United States rights-of-way without prior approval by the United States.

E. Existing gravity drainage of the United States rights-of-way must be maintained. No new concentration of surface or subsurface drainage may be directed onto or under the United States rights-of-way without adequate provision for removal of drainage water or adequate protection of the United States rights-of-way.

F. Prior to construction of any structure that encroaches within United States rights-of-way, an excavation must be made to determine the location of existing United States facilities. The excavation must be made by or in the presence of water users or the United States.

G. Any commercial individual constructing improvements in, on, or along United States rights-of-way must first his construction in the encroaching structure previously approved and construct the improvements strictly in accordance with plans or specifications.

H. The ground surfaces within United States rights-of-way must be restored to a condition equal to that which existed before the encroachment work began or as shown on the approved plans or specifications.

I. The owner of newly constructed facilities that encroach on United States rights-of-way shall notify the United States and/or the District upon completion of construction and shall provide the District with one copy and the United States with two copies of as-built drawings showing actual improvements in, on, or along the rights-of-way.

J. Except in case of ordinary maintenance and emergency repairs, no use of encroaching facilities shall give the District at least 10 days notice in writing before entering upon United States rights-of-way for the purpose of reconstructing, repairing, or removing the encroaching structure or performing any work on or in connection with the operation of the encroaching structure.

K. If unusual conditions are proposed for the encroaching structure or unusual field conditions within United States rights-of-way are encountered, the United States reserves the right to impose more stringent criteria than those prescribed herein.

L. All backfill material within United States rights-of-way shall be compacted to 90 percent of maximum density unless otherwise shown. Mechanical compaction shall not be allowed within 6 inches of the projects work, whenever possible. In no case will mechanical compaction using heavy equipment be allowed over the project work or within 18 inches horizontally of the project work.

M. That the backfilling of any excavation or around any structure within the United States rights-of-way shall be compacted in layers not exceeding 6 inches thick to the following requirements: (1) cohesive soils to 90 percent maximum density specified by ASTM Part 19, D-698, method A; (2) cohesionless soils to 70 percent relative density specified by ASTM/ASTM Part 19, d-2049, par. 7.1.2, wet method.

N. Any nonmetallic encroaching structure below ground level shall be accompanied with a metallic strip within the United States rights-of-way

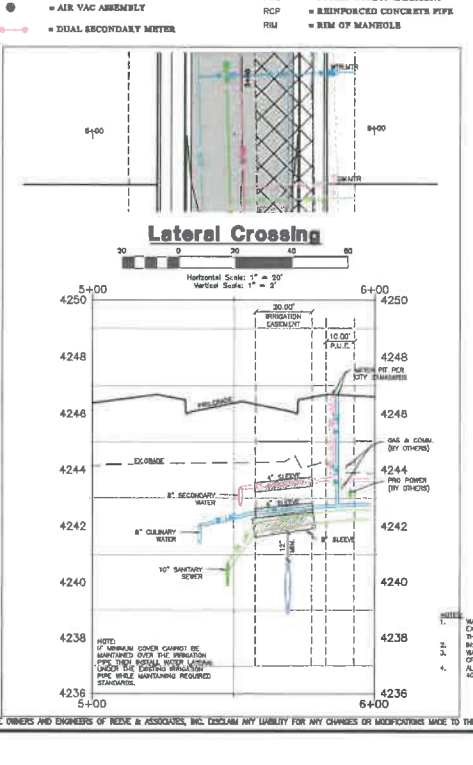
O. Owners of encroaching facilities shall notify the United States and/or the District at least forty eight (48) hours in advance of commencing construction to permit inspection by the United States and/or the District.

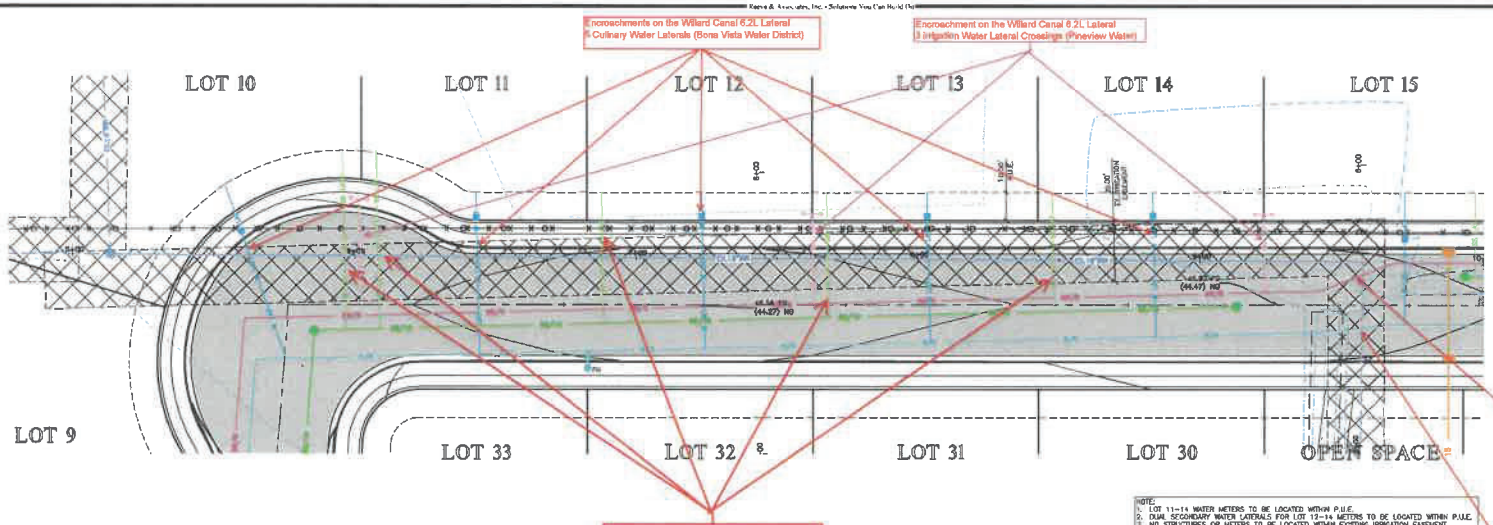
P. No use of United States lands or rights-of-way shall be permitted that involves the storage of hazardous material.

Legend

SW LAT	= PROPOSED SECONDARY WATER LATERAL		= PROPOSED WATER METER
LD LAT	= PROPOSED LAND DRAIN LATERAL		= EXISTING WATER METER
W LAT	= PROPOSED WATER LATERAL		= PROPOSED REDUCER
SS LAT	= PROPOSED SEWER LATERAL		= EXISTING REDUCER
W/8	= PROPOSED CULINARY WATER LINE		= PROPOSED CATCH BASIN
EX.W	= EXISTING CULINARY WATER LINE		= EXISTING CATCH BASIN
SW/8	= PROPOSED SECONDARY WATER LINE		= PLUG W/ 2" BLOW-OFF
EX.SW	= EXISTING SECONDARY WATER LINE		= STREET LIGHT
SS/8	= PROPOSED SANITARY SEWER LINE		= SIGN
EX.SS	= EXISTING SANITARY SEWER LINE		= POWER POLE
SD/18	= PROPOSED STORM DRAIN LINE	BFE	= BASEMENT FLOOR ELEVATION
EX.SD	= EXISTING STORM DRAIN LINE	BLDG	= BUILDING
LD/8	= PROPOSED LAND DRAIN LINE	BOS	= BOTTOM OF STAIRS
EX.LD	= EXISTING LAND DRAIN LINE	BOW	= BOTTOM OF WALL
IRR/18	= PROPOSED IRRIGATION LINE	BP	= BEGINNING POINT
EX.IRR	= EXISTING IRRIGATION LINE	C&G	= CURB & GUTTER
	= EXISTING FENCE LINE	CB	= CATCH BASIN
	= PROPOSED FENCE LINE	CF	= CUBIC FEET
	= DRAINAGE SWALE	CFS	= CUBIC FEET PER SECOND
OHP	= OVERHEAD POWER LINE	EP	= ENDING POINT
	= PROPOSED FIRE HYDRANT	FF	= FINISH FLOOR
	= EXISTING FIRE HYDRANT	FFE	= FINISH FLOOR ELEVATION
	= PROPOSED MANHOLE	FG	= FINISHED GRADE
	= EXISTING MANHOLE	FH	= FIRE HYDRANT
	= PROPOSED SEWER CLEAN-OUT	FL	= FLOW LINE
	= PROPOSED GATE VALVE	GB	= GRADE BREAK
	= EXISTING GATE VALVE	INV	= INVERT
	= PLUG & BLOCK	LF	= LINEAR FEET
	= AIR VAC ASSEMBLY	NG	= NATURAL GRADE
	= DUAL SECONDARY METER	OHP	= POWER/UTILITY POLE
		PP	= POWER/UTILITY POLE
		PRC	= POINT OF RETURN CURVATURE
		PUE	= PUBLIC UTILITY EASEMENT
		RCP	= REINFORCED CONCRETE PIPE
		RIM	= RIM OF MANHOLE

ROW	= RIGHT-OF-WAY
SD	= STORM DRAIN
SS	= SANITARY SEWER
TBC	= TOP BACK OF CURB
TOA	= TOP OF ASPHALT
TOC	= TOP OF CONCRETE
TOFF	= TOP OF FINISHED FLOOR
TOS	= TOP OF STAIRS
TOW	= TOP OF WALL
TSW	= TOP OF SIDEWALK
UGP	= UNDERGROUND POWER
W	= CULINARY WATER
WM	= WATER METER
	= EXISTING ASPHALT PAVEMENT
	= PROPOSED ASPHALT PAVEMENT
	= PROPOSED CONCRETE
	= PROPOSED GRAVEL
4800	= EXISTING CONTOUR GRADE
4800	= PROPOSED CONTOUR GRADE

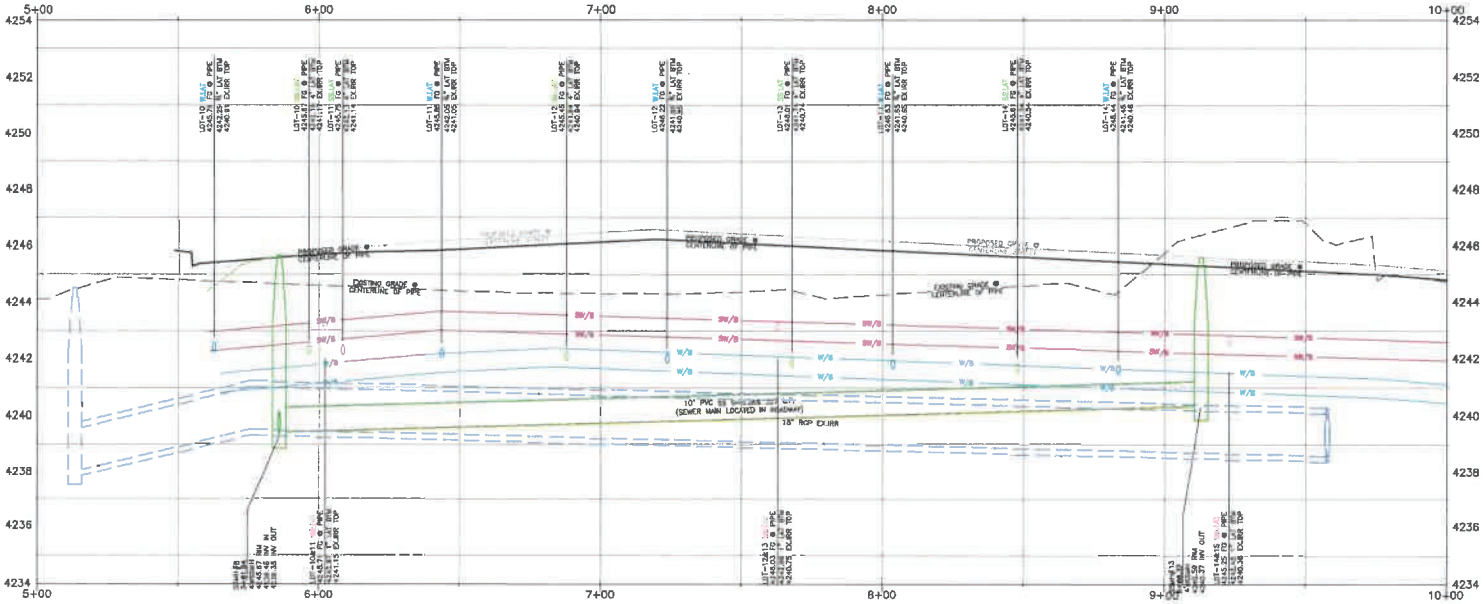

Lateral Crossing
Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'
5+00
6+00
4250
4248
4246
4244
4242
4240
4238
4236
30.00' IRRIGATION EASEMENT
10.00' P.U.E.
EX.GRADE
4" SLEEVE
8" SECONDARY WATER
8" CULINARY WATER
10" SANITARY SEWER
8" SLEEVE
GAS & COMM. (BY OTHERS)
PRO POWER (BY OTHERS)
NOTE:
IF MINIMUM COVER CANNOT BE MAINTAINED OVER THE IRRIGATION PIPE, THEN INSTALL WATER LATERAL UNDER THE EXISTING IRRIGATION PIPE WHILE MAINTAINING REQUIRED STANDARDS.
NOTES
1. WATER LATERALS TO BE INSULATED WHEN CROSSING OVER EXISTING IRRIGATION 8" COVER O



NOTE:
1. LOT 11-14 WATER METERS TO BE LOCATED WITHIN P.U.E.
2. DUAL SECONDARY WATER LATERALS FOR LOT 12-14 METERS TO BE LOCATED WITHIN P.U.E.
3. NO STRUCTURES OR METERS TO BE LOCATED WITHIN EXISTING IRRIGATION EASEMENT.
4. POWER, COMMUNICATIONS, & GAS TO BE PROVIDED/DESIGNED BY OTHERS.
5. ALL UTILITIES CROSSING OVER OR UNDER EXISTING IRRIGATION MUST MAINTAIN 12" FROM TOP OR BOTTOM OF EXISTING IRRIGATION.
6. SEWER PIPE & STRUCTURES, CULINARY WATER, & SECONDARY WATER MAINS SHOW FOR REFERENCE ONLY. MAINS ARE LOCATED WITHIN STREET.
7. ALL UTILITIES CROSSING WITHIN EXISTING EASEMENTS MUST BE SLEEVED.
8. 1" & 2" LATERALS TO BE INCASED WITH SCHEDULE 40 PVC PIPE.
9. BUILDERS (LOT PURCHASERS) MUST OBTAIN AN "EASEMENT ENCROACHMENT AGREEMENT" FROM WBWCD/BOR, FOR DRIVEWAYS ON SPECIFIC LOTS.

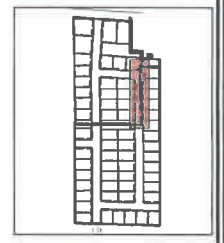
Street B 5+00.00 - 10+00.00

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'



Key Map

NOT TO SCALE



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CULINARY WATER
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W/8 – 8" DIP W/POLY WRAP WATER LINE
W LAT – 1" TYPE K COPPER SERVICE LATERAL

SANITARY SEWER
SS/10 – 10" PVC SDR-35 SEWER LINE
SS LAT – 4" PVC SDR-35 SERVICE LATERAL

STORM DRAIN
SD/12 – 12" RCP CLASS III STORM DRAIN
SD/15 – 15" RCP CLASS III STORM DRAIN

SECONDARY WATER
SW/8 – 8" PVC C-900 DR-14 SECONDARY WATER LINE
SW LAT – 1" SERVICE LATERAL W/ 1" METER

Reeve & Associates, Inc.

REVISIONS
DATE | DESCRIPTION

Williams/Fox Properties
Bureau of Reclamation
PLAIN CITY, WEBER COUNTY, UTAH

Street B 5+00.00 - 10+00.00

REGISTERED PROFESSIONAL ENGINEER
375623
J. NATE REEVE
06/15/2022
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: N. FICKLIN
Begin Date: MARCH 2022
Name: WILLIAMS/FOX PROPERTIES
Number: 7152-14

811 Know what's below. Call before you dig.

3
4 Total Sheets

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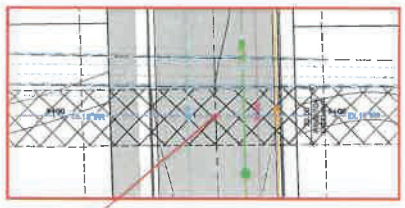
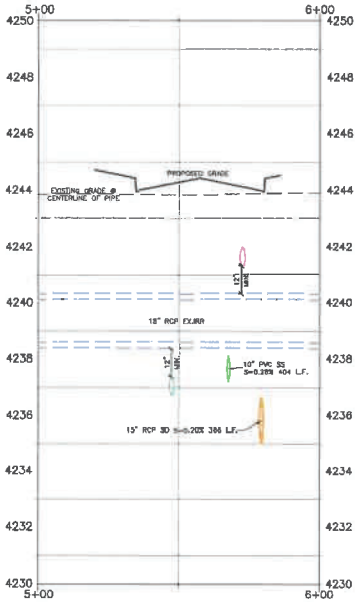
This is not an Irrigation Line it is a Land Drain

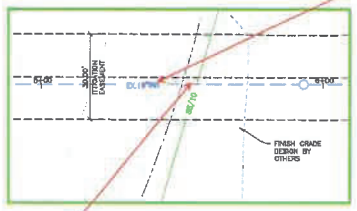


Encroachment on the Willard Canal 6.2L Lateral
Roadway Asphalt with Curb and Gutter (O&M by Weber County)
Sewer Main Crossing (Weber County)
Culinary Water Main (Bona Vista Water District)
Irrigation Water Main (Pineview Water Systems)

Street A Crossing

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

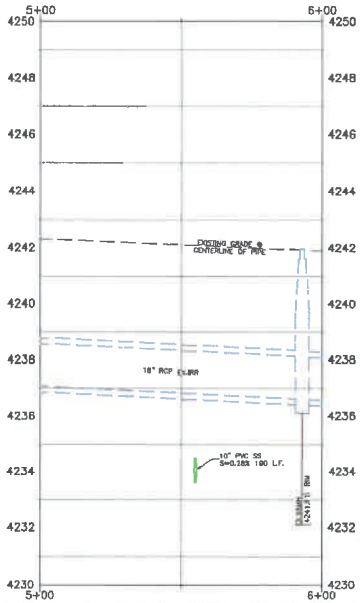


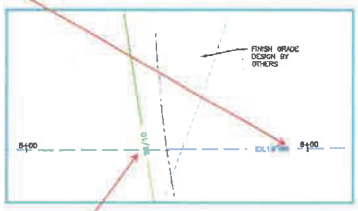


Encroachment on the Plain City C-3-3.4L
Sewer Main Crossing (Weber County)

Outfall Crossing 1

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'

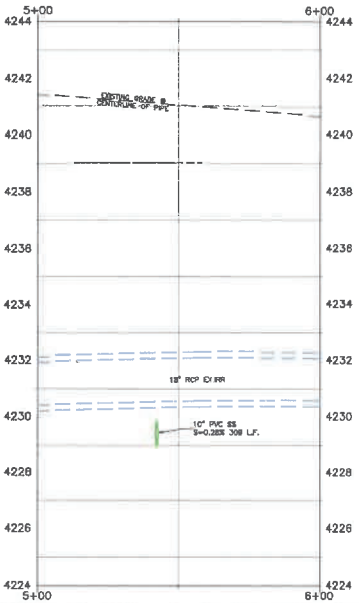




Encroachment on the Plain City C-3
Sewer Main Crossing (Weber County)

Outfall Crossing 2

Horizontal Scale: 1" = 20'
Vertical Scale: 1" = 2'



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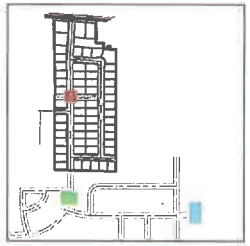

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Bureau of Reclamation
PLAIN CITY, WEBER COUNTY, UTAH

Irrigation Cross Sections

REGISTERED PROFESSIONAL ENGINEER
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