SEPA¹ Environmental Checklist

Purpose of checklist

Governmental agencies use this checklist to help determine whether the environmental impacts of your proposal are significant. This information is also helpful to determine if available avoidance, minimization, or compensatory mitigation measures will address the probable significant impacts or if an environmental impact statement will be prepared to further analyze the proposal.

Instructions for applicants

This environmental checklist asks you to describe some basic information about your proposal. Please answer each question accurately and carefully, to the best of your knowledge. You may need to consult with an agency specialist or private consultant for some questions. You may use "not applicable" or "does not apply" only when you can explain why it does not apply and not when the answer is unknown. You may also attach or incorporate by reference additional studies reports. Complete and accurate answers to these questions often avoid delays with the SEPA process as well as later in the decision-making process.

The checklist questions apply to **all parts of your proposal**, even if you plan to do them over a period of time or on different parcels of land. Attach any additional information that will help describe your proposal or its environmental effects. The agency to which you submit this checklist may ask you to explain your answers or provide additional information reasonably related to determining if there may be significant adverse impact.

Instructions for lead agencies

Please adjust the format of this template as needed. Additional information may be necessary to evaluate the existing environment, all interrelated aspects of the proposal and an analysis of adverse impacts. The checklist is considered the first but not necessarily the only source of information needed to make an adequate threshold determination. Once a threshold determination is made, the lead agency is responsible for the completeness and accuracy of the checklist and other supporting documents.

Use of checklist for nonproject proposals

For nonproject proposals (such as ordinances, regulations, plans and programs), complete the applicable parts of sections A and B, plus the Supplemental Sheet for Nonproject Actions (Part D). Please completely answer all questions that apply and note that the words "project," "applicant," and "property or site" should be read as "proposal," "proponent," and "affected geographic area," respectively. The lead agency may exclude (for non-projects) questions in "Part B: Environmental Elements" that do not contribute meaningfully to the analysis of the proposal.

¹ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/Checklist-guidance

A.Background

Find help answering background questions²

1. Name of proposed project, if applicable:

Main Canal mile post 8.4 to 9.6 Canal Grading and Multiple Siphon Removals.

2. Name of applicant:

Kennewick Irrigation District.

3. Address and phone number of applicant and contact person:

Daniel Tissell, P.E.

Engineering Manager

2015 S. Ely St, Kennewick, WA 99337

509-586-6012 ext. 116

4. Date checklist prepared:

8/18/2025

5. Agency requesting checklist:

Kennewick Irrigation District.

6. Proposed timing of schedule (including phasing, if applicable):

The tentative project schedule is as follows:

2025 Irrigation Season (April – October)

- Establishment of a canal road on the South side of Canal Section 2 (Appendix A).
 - o This will add an additional canal road access point to Webber Canyon Road.
- Placement of fill generated from establishing canal road in section 2 in MC 9.0
 Siphon area.
- Placement of fill on the North side of Canal Section 1 (Appendix A) to raise the canal road.
- Placement of excess material generated from establishing a canal road on the South side of Canal Section 2 will be within the project extents where fill is needed.

2025-2026 Irrigation Off-Season (October 2025 – April 2026)

- Raising the canal embankment of Canal Section 3 (Appendix A) on both sides
 - o Install HDPE liner over the exiting concrete and earthen canal prism
 - Addition of a canal access point from Webber Road for the south side canal road of Canal Section 3.

² https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-A-Background

- Decommissioning of existing siphon(s) pipe(s).
- Final placement of fill within siphon(s) and construct canal section(s).
- Lining of canal section(s) with HDPE liner and construct concrete structures.
- 7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Yes. Canal construction, lining and siphon decommissioning are planned in the future within the Kennewick Irrigation District (KID).

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

A previous SEPA has been completed for the KID lining project under TD 2020-24 that includes this area of the KID Main Canal. Additionally, an Archaeological Survey Report was completed for the KID Title Transfer Project. This report found no cultural resources identified within the Main Canal Division II Right-of-Way in which this project is located.

A future SEPA will be completed for the remaining work of the KID WaterSMART22 Grant #R22AP00568. Portions of this project are within the WaterSMART22 Grant boundaries.

9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

Canal Section 2 (Appendix A) was requested to be removed from KID WaterSMART18 Grant #R18AP00184 boundaries with an amendment filed in 2025.

The prospective borrow sites for the MC 7.2 and MC 7.5 fill material will be within the future WaterSMART22 Grant SEPA application.

10. List any government approvals or permits that will be needed for your proposal, if known.

Any necessary easements and/or agreements with neighboring parcel owners will be secured prior to any construction activity on those parcels, as well as any required permits.

11. Give brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

This project will decommission the existing Main Canal (MC) 9.0 Siphon, the MC 7.2 siphon, the MC 7.5 siphon and the MC 10.4 siphon. It will also re-align and re-construct the canal prism of the KID main canal. Upon siphon decommissioning, the KID main canal will be realigned and re-graded to construct an open channel canal within the area of the decommissioned siphon(s). A concrete access ramp will be installed within the canal at the removed siphons of MC 10.4, MC 9.0 and MC 7.2 to provide KID vehicular access, provide a safe stormwater discharge point into the canal and a safe exit point from the canal for trapped animals. Areas of the canal prism outside of a concrete structure will be lined with HDPE.

The existing concrete lined section of the KID main canal (Appendix A, Section 3) directly adjacent to Webber Canyon Road will be raised and lined with HDPE. The installation of a new turnout and 16-inch delivery pipe will also occur.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township, and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

This project is in Division II of the Kennewick Irrigation District main canal within Benton County, Washington. The project is bound by the entrance to the KID main canal mile post 7.2 siphon entrance and the exit of the KID main canal mile post 10.4 siphon exit, with several work areas identified within the project bounds. (See Appendix A)

B.Environmental Elements

1. Earth

Find help answering earth questions³

a. General description of the site:

The project site is primarily hilly with steep slopes. There is a localized depression at the existing siphon location that facilitates drainage uphill of the KID main canal.

Circle or highlight one: Flat, rolling hilly steep slopes mountainous, other:

b. What is the steepest slope on the site (approximate percent slope)?

The steepest slopes in the project area range from 80%-100%, with most slopes in the 30%-50% range based on available LiDAR surface data.

c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them, and note any agricultural land of long-term commercial significance and whether the proposal results in removing any of these soils.

General soil types are Warden Silt Loam, Kiona Very Stony Silt Loam and Finley stony fine sandy loam per the USDA Natural Resources Conservation Service Web Soil Survey. (Appendix B).

d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

None are known.

³ https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-earth

e. Describe the purpose, type, total area, and approximate quantities and total affected area of any filling, excavation, and grading proposed. Indicate source of fill.

The purpose of this project is to re-align, widen and re-shape the canal prism to facilitate installation of HDPE lining. Construction activities will increase the height of canal banks and re-shape the canal, as well as install new open channel sections of canal in place of the decommissioned main canal siphons. Preliminary designs (Appendix C) of canal re-alignment, siphon removal and canal reconstruction have the grading area encompassing approximately 27 acres. Earthwork quantities are expected to be approximately 240,000 – 260,000 CU YD, with approximately 70,000 – 80,000 CU YD of fill material required to balance cut/fill quantities.

The mile post 7.2 and 7.5 siphons are the main drivers for the additional fill material needed for this project. The necessary fill for these siphons, and any other areas within this project's boundaries, will be excess material generated through other KID canal lining projects planned for this area. This excess material is planned to come from borrow areas on the South side of the canal adjacent to the MC 7.2 and 7.5 Siphon Removal sites. Revisions to the proposed siphon infill alignments may occur to reduce the amount of fill needed or reduce the amount of easement needed.

Approximately 890 cubic yards of gravel are projected to be imported for the canal maintenance road(s).

f. Could erosion occur because of clearing, construction, or use? If so, generally describe.

Yes. Rill erosion could occur on bare dirt surfaces from a precipitation event during construction. Wind erosion could also occur during construction.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

No impervious surfaces will be constructed after project completion beyond the HDPE canal lining, concrete canal structures and asphalt access aprons in addition to the existing ones. The HDPE canal lining will cover approximately 30% of the project area.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any.

Appropriate best management practices will be employed to reduce erosion at the project site as needed.

2. Air

Find help answering air questions⁴

a. What types of emissions to the air would result from the proposal during construction, operation, and maintenance when the project is completed? If any, generally describe and give approximate quantities if known.

⁴ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-Air

Fugitive dust could occur because of the grading activities of this project. Diesel emissions will occur during the construction activities of the project.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

Appropriate dust control measures consistent with the Benton County Clean Air Agency requirements will be followed to reduce and control emissions.

3. Water

Find help answering water questions⁵

a. Surface:

Find help answering surface water questions⁶

1. Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

No surface bodies of water are in the immediate vicinity of the project except for the KID main canal. The KID canal system eventually drains into the Columbia River.

2. Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

No.

3. Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

None.

4. Will the proposal require surface water withdrawals or diversions? Give a general description, purpose, and approximate quantities if known.

No.

5. Does the proposal lie within a 100-year floodplain? If so, note location on the site plan.

No.

⁵ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water

⁶ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Surface-water

6. Does the proposal involve any discharges of waste materials to surface waters? If so, describe the type of waste and anticipated volume of discharge.

No.

b. Ground:

Find help answering ground water questions⁷

1. Will groundwater be withdrawn from a well for drinking water or other purposes? If so, give a general description of the well, proposed uses and approximate quantities withdrawn from the well. Will water be discharged to groundwater? Give a general description, purpose, and approximate quantities if known.

No.

2. Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (domestic sewage; industrial, containing the following chemicals...; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

c. Water Runoff (including stormwater):

1. Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities, if known). Where will this water flow? Will this water flow into other waters? If so, describe.

Any potential runoff (including storm water) uphill of the site will be impounded by the new canal embankment constructed with siphon decommissionings. Water will be impounded until it reaches a designed elevation to flow into the canal at designated discharge point. Water below this elevation will be impounded until it infiltrates into the ground or evaporates. Storm water that enters the canal during the irrigation season will mix with irrigation water in the canal and be consumed by irrigation customers. During the part of the year outside of the irrigation season, the canal will be dry, and storm water will remain in the canal until it evaporates. Installation of HDPE canal liner will prevent seepage.

Runoff on the downhill side of the KID main canal will follow existing drainage patterns.

2. Could waste materials enter ground or surface waters? If so, generally describe.

Minor waste materials could possibly enter ground water as it infiltrates into the subsurface. Waste materials entering the canal will be collected at the end of the canal lining project, preventing entrance to surface waters.

⁷ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-3-Water/Environmental-elements-Groundwater

3. Does the proposal alter or otherwise affect drainage patterns in the vicinity of the site? If so, describe.

Yes, drainage patterns will change. The current inverted siphons allow uphill storm drainage to cross the canal. Storm water will no longer flow across the existing inverted siphons upon decommissioning and placement of fill material. It will be impounded with the newly constructed open channel berm up to a designed elevation that will then allow storm water to discharge into the canal. Drainage patterns downhill of the canal embankment will have reduced runoff volumes but will otherwise remain unchanged.

The MC 10.4 siphon is planned to have an emergency discharge due to the large drainage area (approximately 5000 acres) above this particular siphon. This emergency discharge would be used if a storm event produces enough runoff to overwhelm the newly constructed canal.

d. Proposed measures to reduce or control surface, ground, and runoff water, and drainage pattern impacts, if any:

Best management practices will be used to reduce sedimentation and waste spills into the canal during project construction. Runoff, including from stormwater, will be accepted into the canal.

4. Plants

Find help answering plants questions

a.	Check the types of vegetation found on the site:		
	\square deciduous tree: alder, maple, aspen, other		
	\square evergreen tree: fir, cedar, pine, other		
	⊠ shrubs		
	⊠ grass		
	\square pasture		
	\square crop or grain		
	\square orchards, vineyards, or other permanent crops.		
	\square wet soil plants: cattail, buttercup, bullrush, skunk cabbage, other		
	\square water plants: water lily, eelgrass, milfoil, other		
	\square other types of vegetation		
b.	What kind and amount of vegetation will be removed or altered?		
	Portions of the project area have recently been burned by wildfire. In those areas, there is minimal sagebrush and other vegetation. In areas unburnt, sagebrush will be removed, as well as cheatgrass, other grass and herbaceous weeds within the grading extents.		

c. List threatened and endangered species known to be on or near the site.

None are known.

d. Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any.

Upon completion of grading, disturbed areas to be hydroseeded.

e. List all noxious weeds and invasive species known to be on or near the site.

None are known.

5. Animals

Find help answering animal questions⁸

a. List any birds and other animals that have been observed on or near the site or are known to be on or near the site.

Examples include:

- Birds: hawk, heron eagle, songbirds other:
- Mammals deer, bear, elk, beaver, other Townsend's ground squirrel
- Fish: bass, salmon, trout, herring, shellfish, other:
- b. List any threatened and endangered species known to be on or near the site.

No threatened or endangered species are known to be on or near the site, but ferruginous hawks and Townsend's ground squirrels could find suitable habitat in open spaces near the project location.

c. Is the site part of a migration route? If so, explain.

The site is located within the greater Pacific Flyway, a major west coast bird migration route.

d. Proposed measures to preserve or enhance wildlife, if any.

Concrete access ramps will be installed in the canal where siphons are decommissioned. Wildlife may use this access ramp to access the canal for water or exit the canal if trapped. The MC 10.4 concrete access ramp will span the entire length of the canal prism. MC 7.2 and 9.0 locations plan on installing a concrete access ramp on the south (uphill) side canal embankment.

e. List any invasive animal species known to be on or near the site.

None are known.

[.]

⁸ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-5-Animals

6. Energy and natural resources

Find help answering energy and natural resource questions⁹

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

The site does not require energy.

b. Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

c. What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any.

None.

7. Environmental health

Health Find help with answering environmental health questions 10

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur because of this proposal? If so, describe.

None are known.

 Describe any known or possible contamination at the site from present or past uses.

None are known.

2. Describe existing hazardous chemicals/conditions that might affect project development and design. This includes underground hazardous liquid and gas transmission pipelines located within the project area and in the vicinity.

None are known.

Describe any toxic or hazardous chemicals that might be stored, used, or produced during the project's development or construction, or at any time during the operating life of the project.

None will be stored, used, or produced.

4. Describe special emergency services that might be required.

None.

5. Proposed measures to reduce or control environmental health hazards, if any.

https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-6-Energy-natural-resou https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-7-Environmental-health

None.

b. Noise

1. What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

Some traffic noise occurs, as well as noises associated with rural residential, farmland and construction.

2. What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from the site)?

During project construction, noise generated will be related to construction activities such as heavy machinery noises. Such noise would occur during workday hours, from approximately 7AM – 5PM. Post construction, there would be no additional noise other than what is currently occurring.

3. Proposed measures to reduce or control noise impacts, if any:

Work will occur during normal working hours weekdays and occasional Saturdays, eliminating noise at night that may disturb area residents.

8. Land and shoreline use

Find help answering land and shoreline use questions¹¹

a. What is the current use of the site and adjacent properties? Will the proposal affect current land uses on nearby or adjacent properties? If so, describe.

The current use of the site are inverted siphons, canal, and associated canal maintenance road(s). Adjacent properties include rural residential, farmland and undeveloped area.

This project will not affect current land uses on nearby or adjacent properties.

b. Has the project site been used as working farmlands or working forest lands? If so, describe. How much agricultural or forest land of long-term commercial significance will be converted to other uses because of the proposal, if any? If resource lands have not been designated, how many acres in farmland or forest land tax status will be converted to nonfarm or nonforest use?

No. Nearby properties are used for agricultural purposes.

1. Will the proposal affect or be affected by surrounding working farm or forest land normal business operations, such as oversize equipment access, the application of pesticides, tilling, and harvesting? If so, how?

No.

c. Describe any structures on the site.

¹¹ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-8-Land-shoreline-use

Existing concrete inverted siphons at the KID main canal mile post 7.2, 7.5, 9.0 and 10.4 and a concrete culvert crossing of Webber Canyon Road with a check structure on the inlet side of the culvert crossing.

Concrete lined canal from KID main canal mile post 8.4 to 8.7 and from milepost 9.4 to 9.6 approximately. There is also a turnout at mile post 8.4, 9.0 and 9.5 of the KID main canal.

d. Will any structures be demolished? If so, what?

Yes. The inverted siphons at mile post 7.2, 7.5, 9.0 and 10.4 of the KID main canal, the check structure directly upstream of Webber Canyon Road, the mile post 9.0 turnout and the mile post 9.5 turnout will be demolished. A new style of turnout will replace the demolished mile post 9.5 turnout.

e. What is the current zoning classification of the site?

Benton County has zoned this area as GMA AG and RL-5. The siphon at the KID main canal milepost 7.2 is within the RL-5 zoning.

f. What is the current comprehensive plan designation of the site?

The current Benton County comprehensive plan designates the site as GMA AG and RURAL REMOTE. The siphon at the KID main canal milepost 7.2 is within the rural remote designation.

- g. If applicable, what is the current shoreline master program designation of the site? Not Applicable.
- h. Has any part of the site been classified as a critical area by the city or county? If so, specify.

Yes. A majority of the project sites are within Geologically Hazardous Areas classified by Benon County for Combined Erosion Hazard and Steep Slope 15%. (Appendix D)

- i. Approximately how many people would reside or work in the completed project? None.
- j. Approximately how many people would the completed project displace? None.
- k. Proposed measures to avoid or reduce displacement impacts, if any.

None.

I. Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any.

The proposed project will consist of decommissioning existing inverted siphons, demolishing and constructing turnouts, demolishing a check station, canal re-alignment, re-construction and canal lining with HDPE material. This project will be compatible with existing and projected land uses and plans.

m. Proposed measures to reduce or control impacts to agricultural and forest lands of long-term commercial significance, if any:

None.

9. Housing

Find help answering housing questions¹²

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.

b. Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

c. Proposed measures to reduce or control housing impacts, if any:

None.

10. Aesthetics

Find help answering aesthetics questions 13

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

New canal embankments will be installed where the siphons are located. The new canal embankment will be taller than the existing grade of the current drainage path across the siphons. At the siphons at mile post 7.2 and 7.5 of the main canal, the new canal road is approximately 50 - 65 feet higher than the lowest point of the existing grade. At the mile post 9.0 siphon, the elevation difference is approximately 35 feet. At the mile post 10.4 siphon, the elevation difference is approximately 15 feet.

The revised canal embankments within sections of the existing canal prism will be approximately 4 - 6 feet taller than the current canal embankment.

b. What views in the immediate vicinity would be altered or obstructed?
None.

c. Proposed measures to reduce or control aesthetic impacts, if any:

None.

https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-9-Housing
 https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-10-Aesthetics

11. Light and glare

Find help answering light and glare questions¹⁴

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

Some light may be produced by lighting provided if work at dawn/dusk is required to complete the project. Some glare from windows/mirrors on the equipment may be present during the daytime hours.

b. Could light or glare from the finished project be a safety hazard or interfere with views?

No.

- c. What existing off-site sources of light or glare may affect your proposal?
 None.
- d. Proposed measures to reduce or control light and glare impacts, if any: None.

12. Recreation

Find help answering recreation questions

a. What designated and informal recreational opportunities are in the immediate vicinity?

Some unauthorized recreational use of the existing canal road occurs at the site. This mostly consists of walkers, horseback riders and all-terrain vehicles.

b. Would the proposed project displace any existing recreational uses? If so, describe.

The project would eliminate the access points to the uphill side of the canal, restricting unauthorized recreation from crossing the canal.

c. Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

None.

13. Historic and cultural preservation

Find help answering historic and cultural preservation questions¹⁵

a. Are there any buildings, structures, or sites, located on or near the site that are over 45 years old listed in or eligible for listing in national, state, or local preservation registers? If so, specifically describe.

The Kennewick Irrigation District main canal has been determined eligible for listing.

https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-11-Light-glare
 https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-13-Historic-cultural-p

b. Are there any landmarks, features, or other evidence of Indian or historic use or occupation? This may include human burials or old cemeteries. Are there any material evidence, artifacts, or areas of cultural importance on or near the site? Please list any professional studies conducted at the site to identify such resources.

None are known.

c. Describe the methods used to assess the potential impacts to cultural and historic resources on or near the project site. Examples include consultation with tribes and the department of archeology and historic preservation, archaeological surveys, historic maps, GIS data, etc.

The Department of Archaeology and Historic Preservation Searchable Database.

d. Proposed measures to avoid, minimize, or compensate for loss, changes to, and disturbance to resources. Please include plans for the above and any permits that may be required.

An Inadvertent Discovery Protocol will be implemented. Work will stop in the location where evidence is uncovered and the proper authorities will be notified.

14. Transportation

Find help with answering transportation questions¹⁶

a. Identify public streets and highways serving the site or affected geographic area and describe proposed access to the existing street system. Show on site plans, if any.

Webber Canyon Road provides access to the site.

b. Is the site or affected geographic area currently served by public transit? If so, generally describe. If not, what is the approximate distance to the nearest transit stop?

The site is not served by public transit. The nearest transit stop is approximately 3 miles.

c. Will the proposal require any new or improvements to existing roads, streets, pedestrian, bicycle, or state transportation facilities, not including driveways? If so, generally describe (indicate whether public or private).

None.

d. Will the project or proposal use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

e. How many vehicular trips per day would be generated by the completed project or proposal? If known, indicate when peak volumes would occur and what percentage of the volume would be trucks (such as commercial and nonpassenger vehicles). What data or transportation models were used to make these estimates?

¹⁶ https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-B-Environmental-elements/Environmental-elements-14-Transportation

None.

f. Will the proposal interfere with, affect, or be affected by the movement of agricultural and forest products on roads or streets in the area? If so, generally describe.

No.

g. Proposed measures to reduce or control transportation impacts, if any:

None.

15. Public services

Find help answering public service questions¹⁷

a. Would the project result in an increased need for public services (for example: fire protection, police protection, public transit, health care, schools, other)? If so, generally describe.

No.

b. Proposed measures to reduce or control direct impacts on public services, if any.

None.

16. Utilities

Find help answering utilities questions¹⁸

- a. Circle utilities currently available at the site: electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other:
- b. Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.

guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-16-utilities

SEPA Environmental checklist (WAC 197-11-960)

¹⁷ https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-guidance/sepa-checklist-section-b-environmental-elements/environmental-elements-15-public-services
¹⁸ https://ecology.wa.gov/regulations-permits/sepa/environmental-review/sepa-guidance/sepa-checklist-

C.Signature

Find help about who should sign¹⁹

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Type name of signee: Daniel Tissell, P.E.

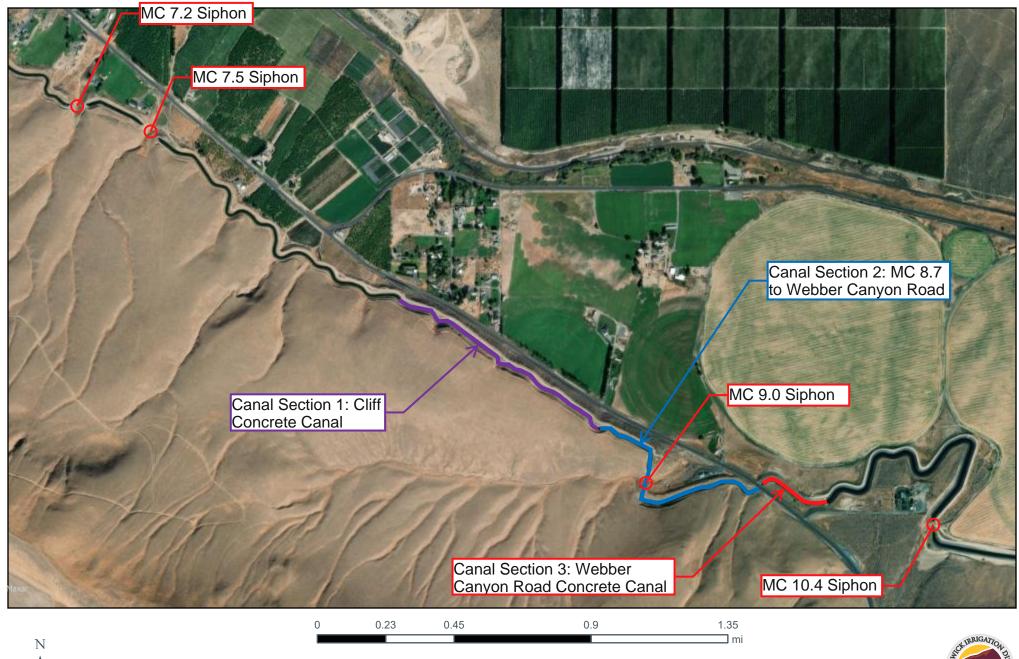
Position and agency/organization: Engineering Manager, Kennewick Irrigation District

Date submitted: 8/29/2025

 $^{^{19}\} https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance/SEPA-checklist-guidance/SEPA-Checklist-Section-C-Signature$

APPENDIX A

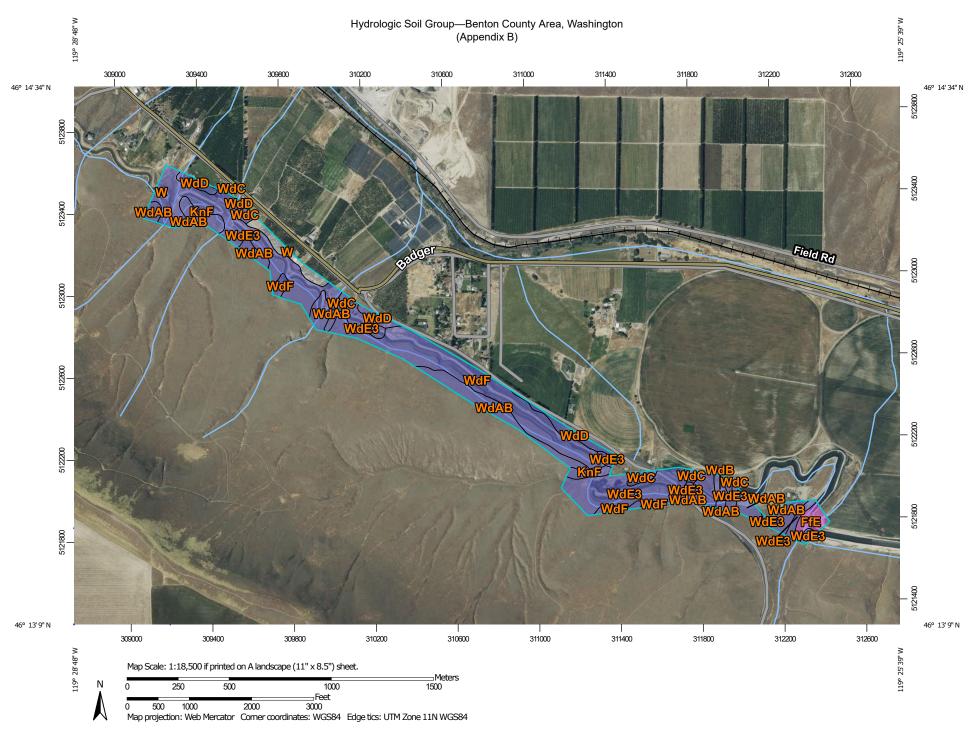
APPENDIX A







APPENDIX B



MAP LEGEND MAP INFORMATION The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) С 1:20.000. Area of Interest (AOI) C/D Please rely on the bar scale on each map sheet for map Soils D measurements. Soil Rating Polygons Not rated or not available Α Source of Map: Natural Resources Conservation Service Web Soil Survey URL: **Water Features** A/D Coordinate System: Web Mercator (EPSG:3857) Streams and Canals В Maps from the Web Soil Survey are based on the Web Mercator Transportation projection, which preserves direction and shape but distorts B/D Rails --distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more Interstate Highways accurate calculations of distance or area are required. C/D **US Routes** This product is generated from the USDA-NRCS certified data as D Major Roads of the version date(s) listed below. Not rated or not available -Local Roads Soil Survey Area: Benton County Area, Washington Soil Rating Lines Survey Area Data: Version 20, Aug 27, 2024 Background Aerial Photography Soil map units are labeled (as space allows) for map scales 1:50.000 or larger. A/D Date(s) aerial images were photographed: Jun 26, 2022—Jun 27, 2022 B/D The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor C/D shifting of map unit boundaries may be evident. D Not rated or not available **Soil Rating Points** A/D B/D

Hydrologic Soil Group

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
FfE	Finley stony fine sandy loam, 0 to 30 percent slopes	A	4.1	2.5%
KnF	Kiona very stony silt loam, 30 to 65 percent slopes	В	6.0	3.8%
W	Water		5.1	3.2%
WdAB	Warden silt loam, 0 to 5 percent slopes	В	22.8	14.3%
WdB	Warden silt loam, 2 to 5 percent slopes	В	1.6	1.0%
WdC	Warden silt loam, 5 to 8 percent slopes	В	5.3	3.3%
WdD	Warden silt loam, 8 to 15 percent slopes	В	8.0	5.0%
WdE3	Warden silt loam, 15 to 30 percent slopes, severely eroded	В	65.7	41.2%
WdF	Warden silt loam, 30 to 65 percent slopes	В	41.1	25.8%
Totals for Area of Inter	est	1	159.7	100.0%

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher

APPENDIX C



9.25'

9.25'

1' DEEP SWALE

20.00'

18.50'

CANAL CROSS SECTION
SCALE: 1" = 10'

02

01

DESIGN BY: BCB

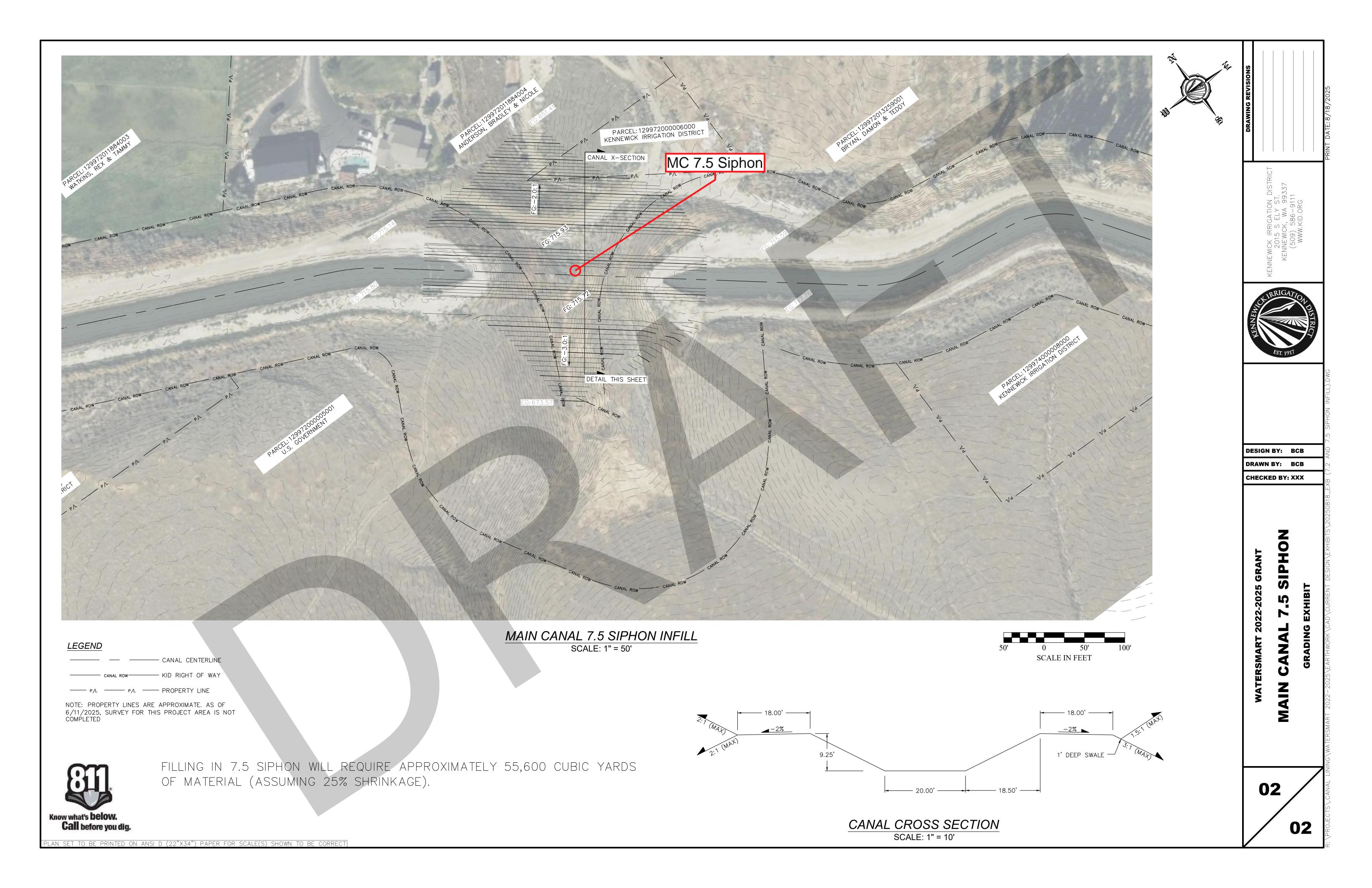
DRAWN BY: BCB

CHECKED BY: XXX

SIPHON

LAN SET TO BE PRINTED ON ANSI D (22"X34") PAPER FOR SCALE(S) SHOWN TO BE CORRECT

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





MAIN CANAL GRADING: 10.4 SIPHON INFILL SCALE: 1" = 40'

PRELIMINARY EARTHWORK QUANTITIES**		
CUT	5,770 CU YD	
FILL	8,770 CU YD	
NET(FILL)*	3,000 CU YD	

*CUT/FILL CALCULATIONS ARE BASED ON AN ASSUMED SHRINKAGE FACTOR OF 20%.

**BASED ON 2018 AND/OR 2020 USGS LIDAR DATA AS EG.



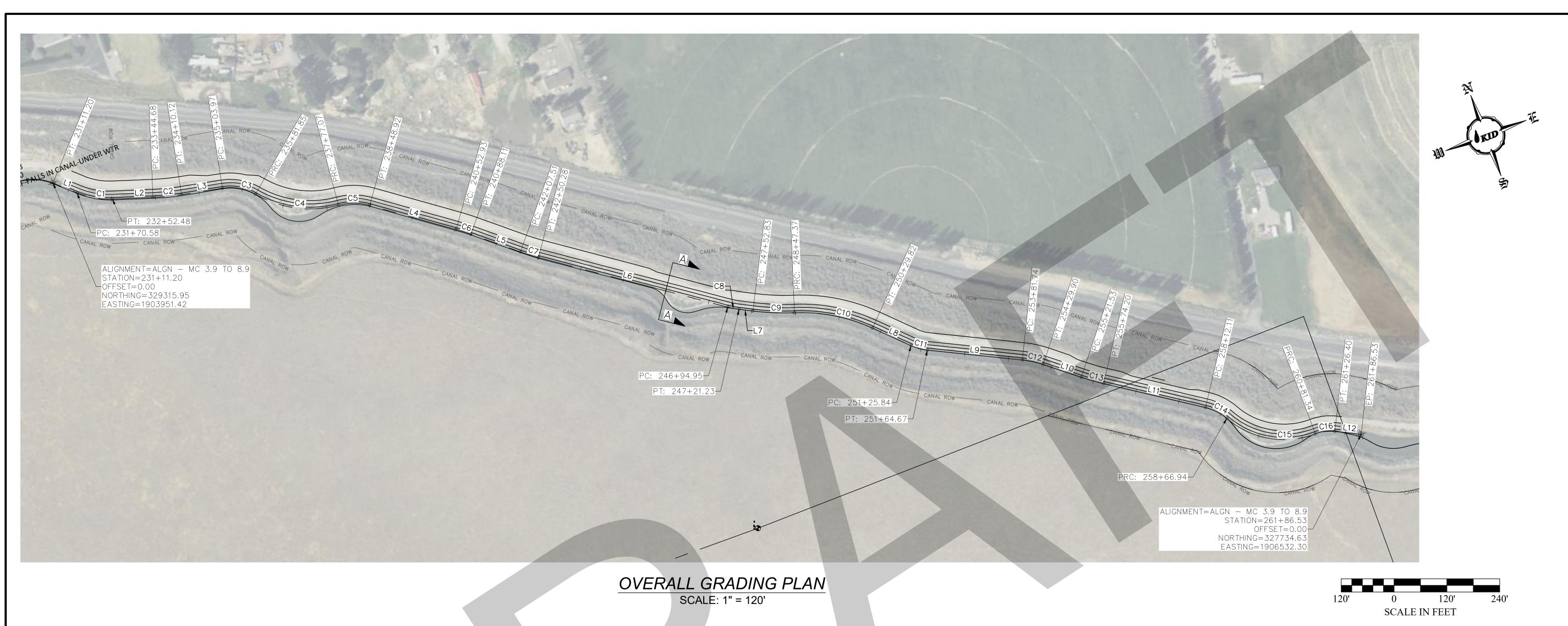
PRELIMINARY

CHECKED BY: XXX

GRADING

PLAN SET TO BE PRINTED ON ANSI D (22"X34") PAPER FOR SCALE(S) SHOWN TO BE CORRECT.

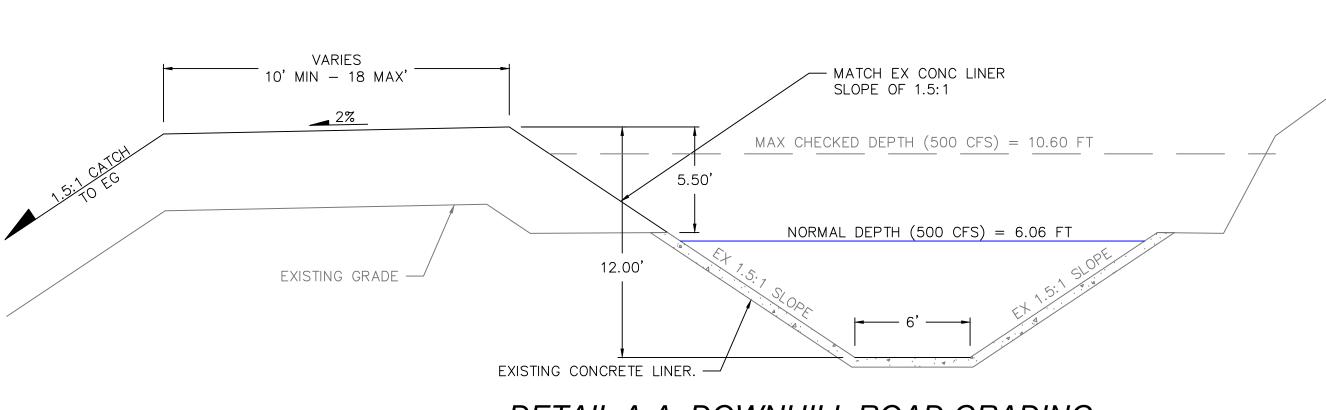
PRELIMINARY



*RAISING DOWNHILL ROAD TO FUTURE FINISHED GRADE ELEVATION WILL REQUIRE APPROXIMATELY 11,000 CUBIC YARDS OF FILL, ASSUMING SHRINKAGE OF 25%.

CURVE TABLE: MC 8.4 - 8.9			8.4 - 8.9
CURVE #	RADIUS	LENGTH	CHORD DIRECTION
C1	190.00	81.90	S59° 23′ 43.45″E
C2	570.00	65.44	S75° 01′ 57.25"E
С3	115.00	77.88	S58° 55' 14.54"E
C4	250.00	195.22	S61° 53′ 24.94″E
C5	135.00	71.85	S69° 00' 52.23"E
C6	500.00	35.18	S51° 45' 10.44"E
C7	495.00	42.77	S52° 12' 44.58"E
C8	200.00	26.28	S58° 28' 22.87"E
С9	573.00	94.53	S66° 57' 47.51"E
C10	390.00	182.46	S58° 17' 13.55"E
C11	120.00	38.83	S54° 09' 19.70"E
C12	220.00	48.16	S57°09′19.70″E
C13	572.90	52.66	S53° 31' 05.26"E
C14	114.58	54.83	S42°27'30.53"E
C15	200.00	214.40	S59°27'37.05"E
C16	95.00	45.06	S76° 35′ 04.03″E

	LINE	TABLE:	MC 8.4 - 8.9
	LINE #	LENGTH	DIRECTION
	L1	59.38	S47° 02′ 49.73″E
	L2	92.21	S71° 44′ 37.18″E
	L3	93.85	S78° 19' 17.32"E
	L4	204.01	S53° 46′ 06.35″E
	L5	119.41	S49° 44' 14.53"E
	L6	444.67	S54° 41′ 14.62″E
	L7	31.60	S62° 14' 12.64"E
	L8	96.02	S44° 53′ 04.70″E
	L9	217.07	S63° 25′ 34.70″E
	L10	91.63	S50° 53' 04.70"E
	L11	237.91	S56° 09' 26.03"E
	L12	60.14	S62° 59' 51.31"E



DETAIL A-A: DOWNHILL ROAD GRADING
SCALE: 1" = 5'

DRAWING REVISIONS

REV A 06/15/202.

NNEWICK IRRIGATION DISTRIC 2015 S ELY ST. KENNEWICK, WA 99337 (509) 586-9111 WWW.KID.ORG



DESIGN BY: BCB

DRAWN BY: BCB

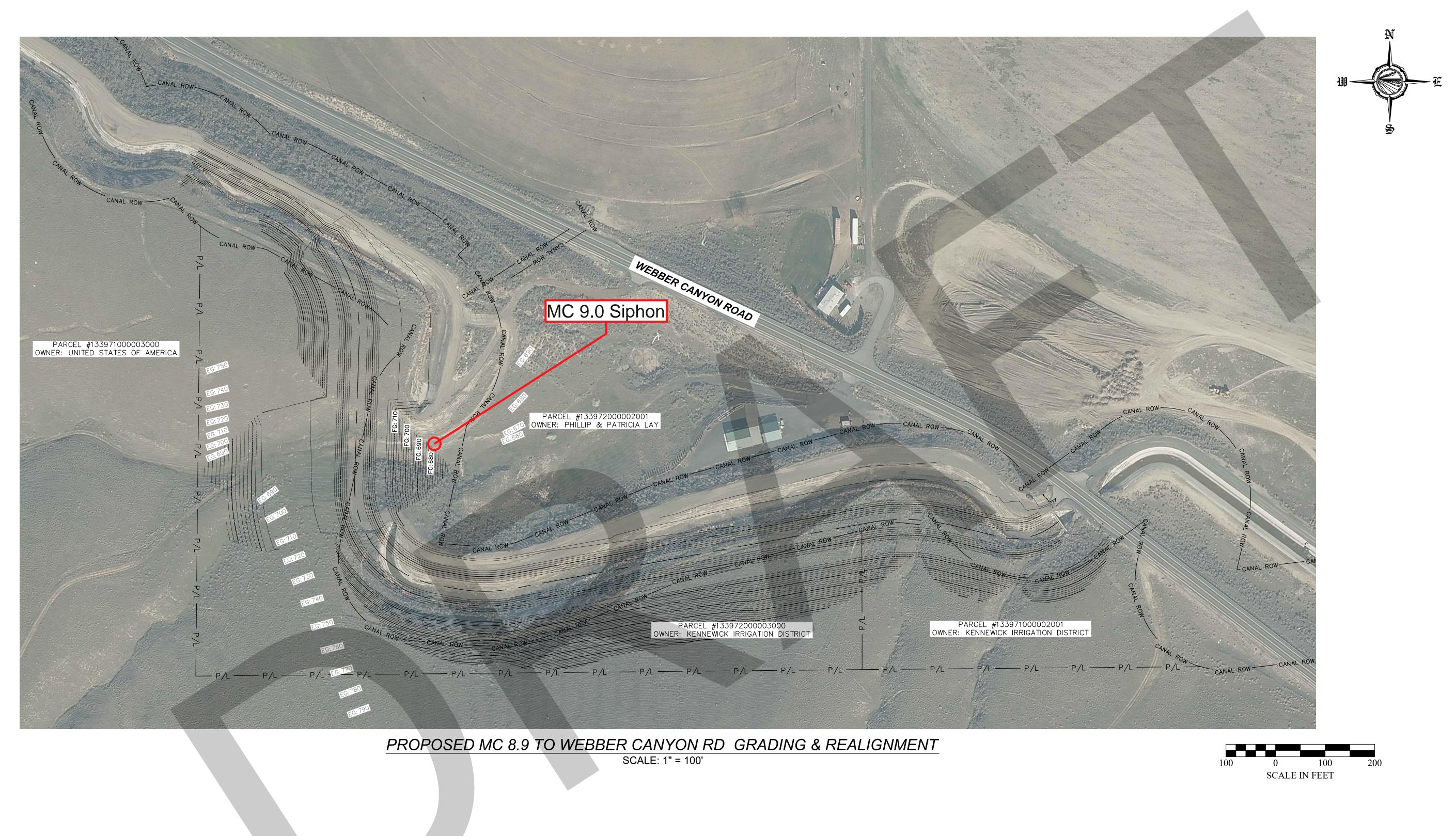
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CANAL 8.4 TO 8.9
ING & HORIZONTAL CONTROL PLA

03

##

PLAN SET TO BE PRINTED ON ANSI D (22"X34") PAPER FOR SCALE(S) SHOWN TO BE CORRECT



PRELIMINARY EARTHWORK QUANTITIES 161,200 CU YD CUT 136,300 CU YD FILL NET(CUT)* 24,900 CU YD *CUT/FILL CALCULATIONS ARE BASED ON AN ASSUMED SHRINKAGE FACTOR OF 20%.

01

PLAN SET TO BE PRINTED ON ANSI D (22"X34") PAPER FOR SCALE(S) SHOWN TO BE CORRECT.

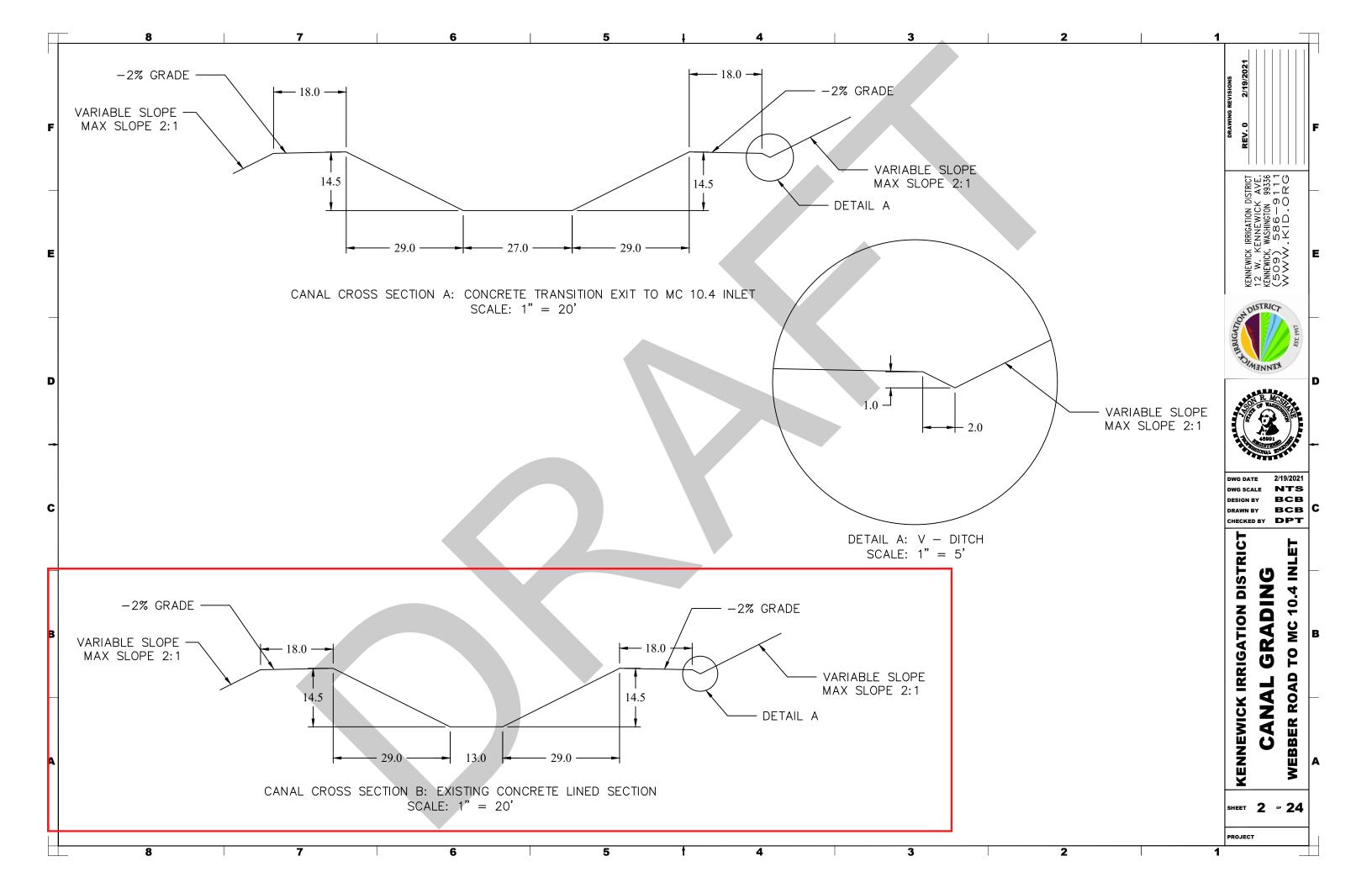
Know what's **below**. **Call** before you dig.

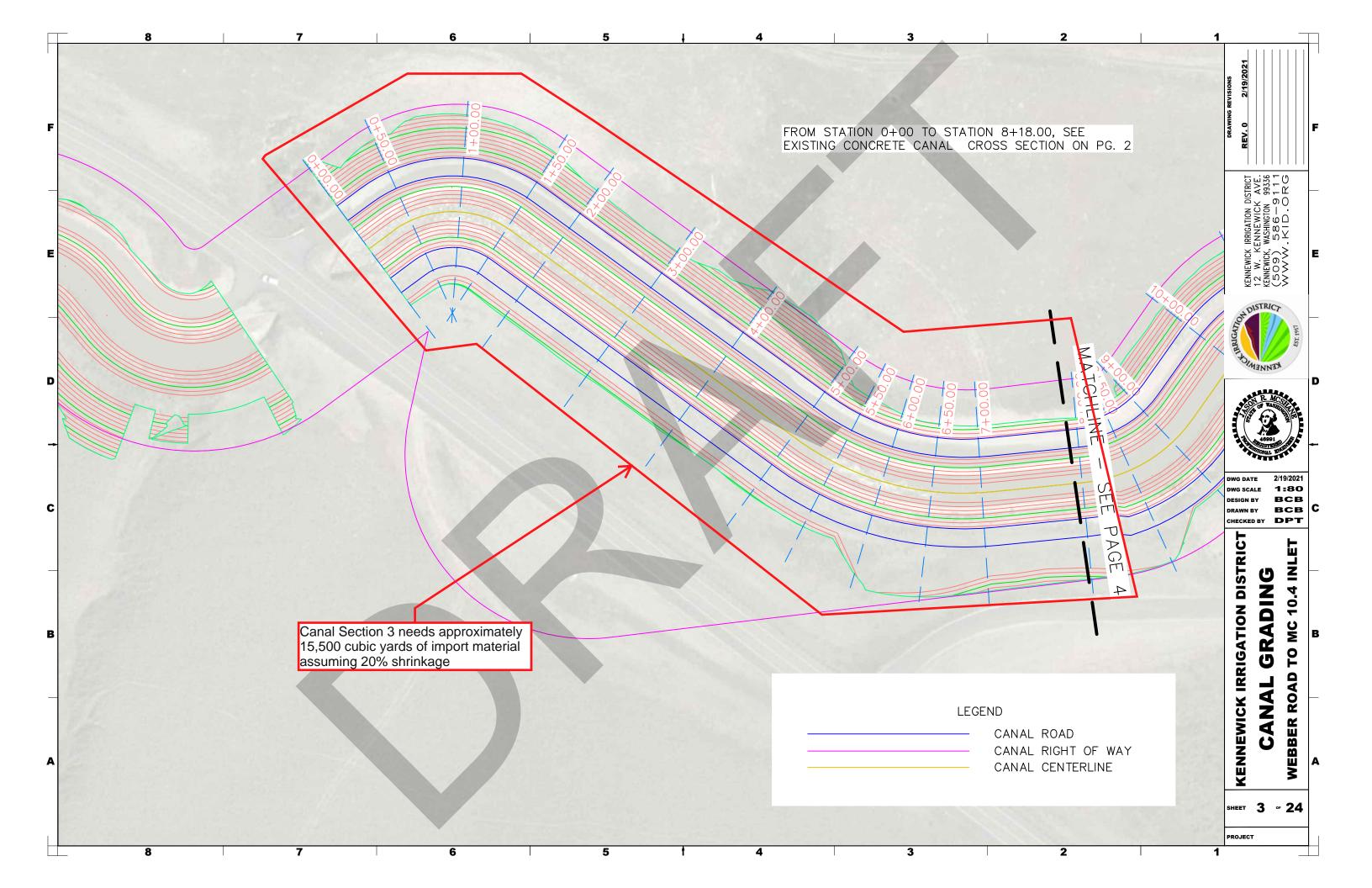
PROPOSED

DRAWN BY: BCB

CHECKED BY: XXX

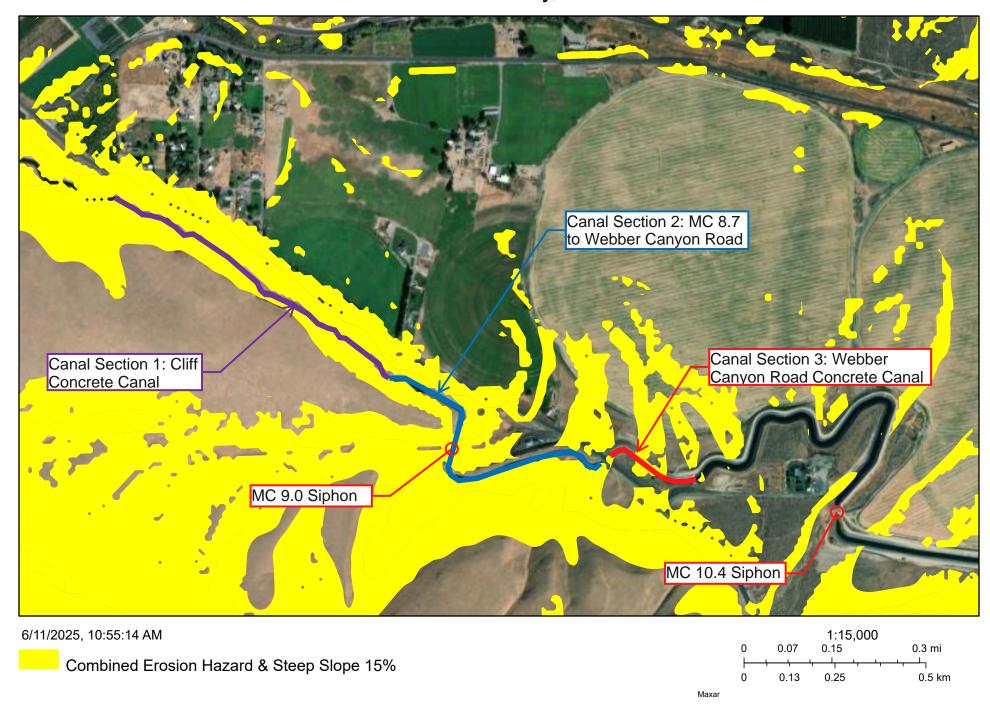
GRADING



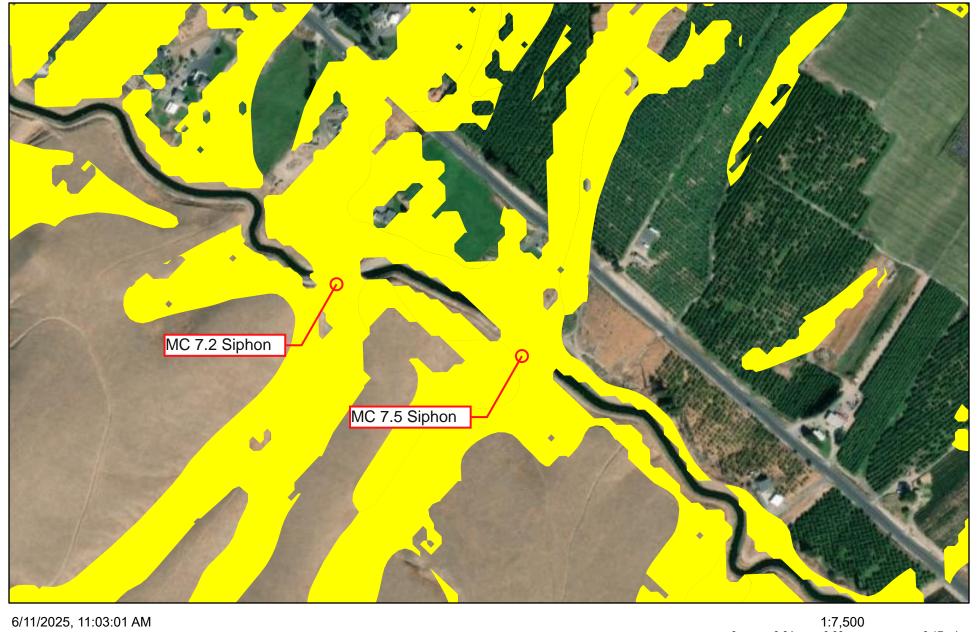


APPENDIX D

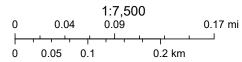
Benton County, WA



Benton County, WA



Combined Erosion Hazard & Steep Slope 15%



Maxar