Utah Transit Authority

Board of Trustees

REGULAR MEETING AGENDA

669 West 200 South
Salt Lake City, UT 84101

Wednesday, June 14, 2023 **9:00 AM** **FrontLines Headquarters**

The UTA Board of Trustees will meet in person at UTA FrontLines Headquarters (FLHQ) 669 W. 200 S., Salt Lake City, Utah.

For remote viewing, public comment, and special accommodations instructions, please see the meeting information following this agenda.

1.	**Call to Order and Opening Remarks**	Trustee Jeff Acerson
2.	**Pledge of Allegiance**	Trustee Jeff Acerson
3.	**Safety First Minute**	Nichol Bourdeaux
4.	**Public Comment**	Trustee Jeff Acerson
5.	**Consent**	Trustee Jeff Acerson
	a. Approval of May 24, 2023 Board Meeting Minutes	
6.	**Reports**	
	a. Executive Director's Report	Jay Fox
	b. Committee on Accessible Transportation (CAT) - Annual Report	Amanda Salmon Willie Black
	c. Safety and Security Report - Utah State Safety Oversight Program	Sheldon Shaw Jim Golden
7.	**Resolutions**	
	a. R2023-06-01 - Resolution Approving the Proposed Second Amendment to the 2023-2027 Capital Plan	Mary DeLoretto Viola Miller Daniel Hofer
	b. R2023-06-02 - Resolution Adopting the Authority's Amended 2023 Budget	Viola Miller Brad Armstrong Daniel Hofer
	c. R2023-06-03 - Resolution Modifying the Authority's Organizational Structure	Kim Shanklin

	d.	R2023-06-04 - Resolution Authorizing the Executive Director to Execute Grants Agreements for Specified Projects	Viola Miller Tracy Young Gregg Larsen
8.	**Contracts, Disbursements and Grants**		
	a.	Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pool A (AECOM Technical Services, Inc.)	David Hancock Travis Colledge
	b.	Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pools A, B, C (Focus Engineering & Surveying, LLC.)	David Hancock Travis Colledge
	c.	Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pools A, B, C (Kimley-Horn and Associates, Inc.)	David Hancock Travis Colledge
	d.	Contract: State of Good Repair Replacement of Network Switches and Associated Equipment (CVE Technologies Group, Inc)	Kyle Brimley
	e.	Contract: Timpanogos Bus Bay 4 Lift Replacement (Stertil-Koni USA, Inc.)	Guy Miner
	f.	Contract: TRAX & Frontrunner Park-n-Ride Lots Asphalt Preservation - Seal Coating and Striping (Sumsion Construction DBA Eckles Paving)	Guy Miner
	g.	Contract: Shepard Lane Interchange - Double Tracking Construction Betterment Agreement (Utah Department of Transportation)	Janelle Robertson
9.	**Service and Fare Approvals**		
	a.	Sponsored Fare Agreement: Trip Reduction Program/Free-Fare Days - Amendment Two (Division of Air Quality)	Kensey Kunkel
10.	**Other Business**		Trustee Jeff Acerson
	a.	Next Meeting: Wednesday, June 28th, 2023 at 9:00 a.m.	
11.	**Closed Session**		Trustee Jeff Acerson
	a.	Strategy Session to Discuss Collective Bargaining	
12.	**Open Session**		Trustee Jeff Acerson

13. Adjourn Trustee Jeff Acerson

Meeting Information:

- Special Accommodation: Information related to this meeting is available in alternate format upon request by contacting adacompliance@rideuta.com or (801) 287-3536. Request for accommodations should be made at least two business days in advance of the scheduled meeting.
- Meeting proceedings may be viewed remotely by following the meeting portal link on the UTA Board Meetings page - https://www.rideuta.com/Board-of-Trustees/Meetings
- In the event of technical difficulties with the remote connection or live-stream, the meeting will proceed in person and in compliance with the Open and Public Meetings Act.
- Public Comment may be given live during the meeting by attending in person at the meeting location OR by joining the remote Zoom meeting below.
    - Use this link-https://rideuta.zoom.us/webinar/register/WN_ayswxU31SwqdWP8gTiiprQ and follow the instructions to register for the meeting (you will need to provide your name and email address).
    - Sign on to the Zoom meeting through the URL provided after registering
    - Sign on 5 minutes prior to the meeting start time.
    - Use the "raise hand" function in Zoom to indicate you would like to make a comment.
    - Comments are limited to 3 minutes per commenter.
- Public Comment may also be given through alternate means. See instructions below.
    - Comment online at https://www.rideuta.com/Board-of-Trustees
    - Comment via email at boardoftrustees@rideuta.com
    - Comment by telephone at 801-743-3882 option 5 (801-RideUTA option 5) – specify that your comment is for the board meeting.
    - Comments submitted before 2:00 p.m. on Tuesday, June 13th will be distributed to board members prior to the meeting.
- Meetings are audio and video recorded and live-streamed
- Members of the Board of Trustees and meeting presenters will participate in person, however trustees may join electronically as needed with 24 hours advance notice.
- Motions, including final actions, may be taken in relation to any topic listed on the agenda.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO: Board of Trustees
THROUGH: Jana Ostler, Board Manager
FROM: Jana Ostler, Board Manager

TITLE:

Approval of May 24, 2023 Board Meeting Minutes

AGENDA ITEM TYPE:
Minutes

RECOMMENDATION:
Approve the minutes of the May 24, 2023, Board of Trustees meeting

BACKGROUND:
A meeting of the UTA Board of Trustees was held in person at UTA Frontlines Headquarters and broadcast live via the UTA Board Meetings page on Wednesday May 24, 2023 at 9:00 a.m. Minutes from the meeting document the actions of the Board and summarize the discussion that took place in the meeting. A full audio recording of the meeting is available on the Utah Public Notice Website <https://www.utah.gov/pmn/sitemap/notice/834435.html> and video feed is available through the UTA Board Meetings page <https://rideuta.com/Board-of-Trustees/Meetings>.

ATTACHMENTS:
1. 2023-05-24_BOT_Minutes_unapproved

Utah Transit Authority

Board of Trustees

MEETING MINUTES - Draft

669 West 200 South
Salt Lake City, UT 84101

Wednesday, May 24, 2023 **9:00 AM** **FrontLines Headquarters**

Present: Chair Carlton Christensen
Trustee Beth Holbrook
Trustee Jeff Acerson

Also attending were UTA staff, media, and interested community members.

1. Call to Order and Opening Remarks

Chair Carlton Christensen welcomed attendees and called the meeting to order at 9:03 a.m.

2. Pledge of Allegiance

Attendees recited the Pledge of Allegiance.

3. Safety First Minute

Trustee Beth Holbrook delivered a brief safety message.

4. Public Comment

In Person/Virtual Comment
No in person or virtual comment was given.

Online Comment
No online comment was received.

5. Consent

a. Approval of May 10, 2023 Board Meeting Minutes

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, to approve the consent agenda. The motion carried by a unanimous vote.

6. Reports

a. Executive Director's Report

- **Team Award - Triennial Review Team**
- **UTA Recognition - Ediri Oyake and Chris Charlesworth**
- **UTA Recognition - Government Finance Officers Award (GFOA)**
- **UTA Recognition - Upgraded Credit Rating from S&P**

Team Award - Triennial Review Team

Jay Fox, UTA Executive Director, was joined by Bill Greene, former UTA Chief Financial Officer, and Tracy Young, UTA Grants Director. Mr. Greene thanked the grants team for their preparation and efforts associated with the Federal Transit Administration (FTA) triennial review. Ms. Young introduced and highlighted the work of the triennial review team.

UTA Recognition - Ediri Oyake and Chris Charlesworth

Mr. Fox was joined by Cherryl Beveridge, UTA Chief Operating Officer; Jaron Robertson, Acting Light Rail General Manager; and Tony Berger, UTA Manager of Light Rail Operations. Mr. Berger recognized Ediri Oyake, UTA TRAX Operator, and Chris Charlesworth, UTA Light Rail Operations Supervisor, for their efforts to assist a person contemplating suicide.

UTA Recognition - Government Finance Officers Award (GFOA)

Mr. Fox was again joined by Mr. Greene. Mr. Greene announced the finance team received the GFOA Award for the 29th year in a row.

UTA Recognition - Upgraded Credit Rating from S&P

Mr. Greene reported the agency received an upgrade to AA+ in its credit rating from Standard & Poor's.

Since Mr. Greene is retiring, the board and Mr. Fox expressed appreciation to him for his work with the agency.

American Public Transportation Association (APTA) CEO Conference

Mr. Fox mentioned his recent attendance at the APTA CEO Conference and the strong reputation UTA has among its national peers.

b. Financial Report - March 2023

Viola Miller, UTA Chief Financial Officer, was joined by Brad Armstrong, UTA Director of Budget & Financial Strategy, and David Hancock, UTA Capital Development Director. Ms. Miller reviewed the financial dashboard, sales tax revenue, sales tax collections by county, passenger revenues, headcount, and operating financial results. Mr. Hancock discussed capital spending (including spending by project type) and provided highlights on substation improvements.

Discussion ensued. Questions on decreases in propulsion power costs, operator recruitment, salary numbers, utilities costs, station art installation, and substation components were posed by the board and answered by staff.

c. Discretionary Grants Report

Ms. Young was joined by Gregg Larsen, UTA Manager of Grant Services. Ms. Young reported on several grant applications that have been submitted and are awaiting

selection (for a complete list, see the meeting materials). She then outlined discretionary grants and appropriations for which the agency has been selected, including:

- FTA Transit-Oriented Development (TOD) Planning - Midvalley Connector: $360,000
- Fiscal Year 23 West Side Express Transit Community Project Funding (CPF): $3,500,000
- FrontRunner Strategic Double Track Project Appropriation (Utah Department of Transportation): $486,000,000
- FTA Small Starts - Midvalley Connector: $62,800,000
- FTA Rail Replacement Grant: $60,000,000

Discussion ensued. A question on the no-low emission grant award timeline was posed by the board and answered by staff.

7. Resolutions

a. R2023-05-02 - Resolution Approving the Title VI Service Equity Analysis for August 2023 Change Day

Nichol Bourdeaux, UTA Chief Planning & Engagement Officer, was joined by Russ Fox, UTA Director of Planning; Megan Waters, UTA Community Engagement Director; and Alex Beim, UTA Manager of Long-Range Strategic Planning. Staff reviewed Title VI requirements, datasets, and analysis parameters associated with the August 2023 change day. They summarized proposed minor changes and discussed proposed major changes on routes F202, 603X, and 602, and the discontinuation of routes 603 and 650. While the major change analyses resulted findings of disparate impact and disproportionate burden, they also reflected substantial legitimate justification to proceed with the proposed changes. The major changes reflect increased service and access among low-income and minority populations.

Discussion ensued. Questions on route 903 performance, impacts for operators following the opening of the Orange Street hub, public feedback on proposed changes, and service restoration timelines were posed by the board and answered by staff.

A motion was made by Trustee Acerson, and seconded by Trustee Holbrook, that this resolution be approved. The motion carried by the following vote:

Aye: Chair Christensen, Trustee Holbrook, and Trustee Acerson

8. Contracts, Disbursements and Grants

a. Contract: Head End Power Training Module (Wabtec Transportation Systems, LLC)

Kyle Stockley, UTA Manager of Capital Vehicles, requested the board approve a not-to-exceed $847,175 contract with Wabtec Transportation Systems, LLC for a head end power (HEP) module for the commuter rail maintenance training program.

Discussion ensued. A question on the current training process was posed by the board and answered by staff.

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, that this contract be approved. The motion carried by a unanimous vote.

b. Contract: Toyota Sienna Minivans for Rideshare (Tony Divino Toyota)

Jesse Rogers, UTA Bus Vehicle Procurement Manager, requested the board approve a $707,584 contract with Tony Divino Toyota for the purchase of 20 vanpool vehicles.

Discussion ensued. A question on vanpool vehicle needs was posed by the board and answered by staff.

A motion was made by Trustee Acerson, and seconded by Trustee Holbrook, that this contract be approved. The motion carried by a unanimous vote.

c. Contract: Funding Agreement for Provo Pedestrian Bridge TIGER Program Project (Utah Department of Transportation)

[Note: The TIGER program of projects consists of multiple community betterment projects, including the pedestrian bridge structure discussed in today's meeting.]

Mr. Hancock was joined by Travis Colledge, UTA Project Manager III. Mr. Colledge requested the board approve a $1,100,000 contract with the Utah Department of Transportation (UDOT) for a transfer of Transit Transportation Investment Fund (TTIF) monies from UDOT to UTA for the TTIF funding allocated to construction of the Provo Pedestrian Bridge.

Discussion ensued. Questions on the funding status on the Provo Pedestrian Bridge and potential for procurement challenges were posed by the board and answered by staff.

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, that this contract be approved. The motion carried by a unanimous vote.

d. Change Order: Rewards and Recognition Program Modification No. 4 - Contract Extension (Motivosity)

Kim Shanklin, UTA Chief People Officer, requested the board approve an $85,995 change order to extend the contract with Motivosity for software related to UTA's administrative employee rewards and recognition program through April 2024. Future board approval will be required for the contract's option to extend to December 31, 2024, with its associated extension value, to be executed. The total contract value, including the change order, is $435,336. (Note: The original Motivosity contract did not require board approval initially but has been modified several times since its execution and now meets the threshold for board approval.)

A motion was made by Trustee Acerson, and seconded by Trustee Holbrook, that this

change order be approved. The motion carried by a unanimous vote.

e. Change Order: On-Call Systems Maintenance Contract Task Order #23-005 - Brake Cut-Out Valve Monitoring (Rocky Mountain Systems Services)

Dean Hansen, UTA Manager of Systems Engineering, requested the board approve a $1,419,326 change order to the contract with Rocky Mountain Systems Services (RMSS) for monitoring onboard functions on trains, including the brake cut-out valve.

Discussion ensued. Questions on using the existing controls with different train sets and installation timeline were posed by the board and answered by staff.

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, that this change order be approved. The motion carried by a unanimous vote.

9. Service and Fare Approvals

a. Fare Agreement: Special Events Agreement (Utah Asian Festival)

Kensey Kunkel, UTA Manager of Fare Strategy, requested the board approve an in-kind ticket-as-fare agreement with the Utah Asian Festival for the festival scheduled on June 3, 2023. Transit fare to the festival is valued at $3,000. In exchange for the transit fare, the Utah Asian Festival agrees to provide in-kind marketing to UTA which includes social media mentions, an email blast to ticket-holders, tabling opportunities, other activities, and digital and print recognition.

Discussion ensued. A question on the festival venue was posed by the board and answered by staff.

A motion was made by Trustee Acerson, and seconded by Trustee Holbrook, that this fare agreement be approved. The motion carried by a unanimous vote.

b. Fare Agreement: Special Events Agreement (Utah Pride Center)

Ms. Kunkel requested the board approve an in-kind ticket-as-fare agreement with the Utah Pride Center for the following events:

- Loud and Queer Concert (June 2, 2023)
- Youth Pride Festival (June 3, 2023)
- Pride Festival (June 4, 2023)

Transit fare to the festival is valued between $26,500-$35,000. In exchange for the transit fare, the Utah Pride Center agrees to provide to UTA a sponsorship package valued at $50,000. This sponsorship package includes social media mentions, an email blast to ticketholders, tabling opportunities, other activities, and digital and print recognition.

Discussion ensued. A question on the festival venue was posed by the board and answered by staff.

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, that this fare agreement be approved. The motion carried by a unanimous vote.

Chair Christensen called for a break at 10:34 a.m.

The meeting reconvened at 10:45 a.m.

10. Discussion Items

a. 2022-2023 Benchmark Survey Report

Steve Wright, UTA Chief Communications Officer, was joined by Christina Lau Billings, Mandy Walsh (remote), and Jennifer Hughes (remote), all with R&R Partners (R&R). The R&R team presented on the 2022-2023 Benchmark Survey, including the qualitative and quantitative research objectives, methodology, and participant demographics. Key findings from the qualitative research revealed: 1) the biggest emotional barrier to riding transit is an association between cars and freedom, 2) Utahns are more likely to ride for leisure than for commuting, and 3) the most compelling communications messages highlight the variety of activities accessible by transit. Key findings from the quantitative research showed:

- UTA has seen a slight decrease in favorability year over year, but well over half of respondents still hold a favorable impression
- While UTA experienced a slight decrease in “corporate citizen” ratings year over year, they remain higher than in 2021
- Utahns' impressions of individual UTA services held steady

R&R said the report reflects key metrics have improved and/or held steady in the last five years and overall perceptions of UTA’s services remain consistent. It also showed given no other form of transportation, Utahns generally feel positive about using UTA’s service. R&R added that, while in the minority, concerns about transit use center on crime and inconvenience. They also spoke about public awareness and support of UTA’s innovation efforts, barriers to riding, riding motivators, and consumer advertising recollection. R&R concluded by outlining how information from the report will be used to influence UTA’s brand campaign and how the survey may be changed to align with the agency’s 2023 strategic goals and objectives.

Discussion ensued. Questions on raising awareness around innovation and plans for applying the research were posed by the board and answered by staff. Chair Christensen recommended implementing a marketing strategy focused on the financial benefits of driving less.

11. Other Business

a. Next Meeting: Wednesday, June 14th, 2023 at 9:00 a.m.

12. Closed Session

a. Strategy Session to Discuss Collective Bargaining

Chair Christensen indicated there were matters to be discussed in closed session relative to collective bargaining. A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, for a closed session. The motion carried by a unanimous vote and the meeting convened in closed session at 11:29 a.m.

13. Open Session

A motion was made by Trustee Acerson, and seconded by Trustee Holbrook, to return to open session. The motion carried by a unanimous vote and the meeting reconvened in open session at 12:16 p.m.

14. Adjourn

A motion was made by Trustee Holbrook, and seconded by Trustee Acerson, to adjourn the meeting. The motion carried by a unanimous vote and the meeting adjourned at 12:16 p.m.

Transcribed by Cathie Griffiths
Executive Assistant to the Board Chair
Utah Transit Authority

This document is not intended to serve as a full transcript as additional discussion may have taken place; please refer to the meeting materials or audio located at <https://www.utah.gov/pmn/sitemap/notice/834435.html> for entire content. Meeting materials, along with a time-stamped video recording, are also accessible at <https://rideuta.granicus.com/player/clip/230?view_id=1&redirect=true&h=82c98ace995bedace163a65e3e4bc76f>.

This document along with the digital recording constitute the official minutes of this meeting.

Approved Date:

_____

Carlton J. Christensen
Chair, Board of Trustees

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO: Board of Trustees
FROM: Jay Fox, Executive Director
PRESENTER(S): Jay Fox, Executive Director

TITLE:

Executive Director's Report

AGENDA ITEM TYPE:
Report

RECOMMENDATION:
Informational report for discussion

DISCUSSION:
Jay Fox, Executive Director, will report on recent activities of the agency and other items of interest.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Kim Shanklin, UTA Chief People Officer; Kenya Fail, UTA Manager of Civil Rights
PRESENTER(S):	Amanda Salmon, UTA ADA Compliance Officer Willie Black, CAT Committee Chair

TITLE:

Committee on Accessible Transportation (CAT) - Annual Report

AGENDA ITEM TYPE:
Report

RECOMMENDATION:
Informational report for discussion

BACKGROUND:
As articulated in the Committee on Accessible Transportation (CAT) Charter adopted by the UTA Board of Trustees on October 30, 2019, it is the responsibility of the CAT Committee Chair to provide an annual update to the Board of Trustees regarding significant CAT Committee accomplishments.

DISCUSSION:
This presentation will update the UTA Board of Trustees regarding significant contributions made by CAT Committee members during the 2022 - 2023 CAT membership year. Ongoing accessibility improvements, as well as the upcoming annual ADA Celebration, will be discussed.

ALTERNATIVES:
N/A

FISCAL IMPACT:
None

ATTACHMENTS:
None

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Sheldon Shaw, Director of Safety and Security
PRESENTER(S):	Sheldon Shaw, Director of Safety and Security Jim Golden, UDOT State Safety Oversight Program Manager

TITLE:

Safety and Security Report - Utah State Safety Oversight Program

AGENDA ITEM TYPE:
Report

RECOMMENDATION:
Informational report for discussion

BACKGROUND:
The Federal Transit Administration (FTA) require states to have a State Safety Oversight (SSO) program for rail transit. Utah chose UDOT to fill that role. The purpose of the program is to oversee safety at rail transit systems. SSO activities include audits, assessments, corrective active action plans, accident investigations and safety and emergency management plans review and approval.

DISCUSSION:
The presentation will cover three key areas:

1. Utah State Safety Program

2. Capital Projects

3. 2022-2023 Program Highlights

4. Planned Activities

ATTACHMENTS:

State of Utah

SPENCER J. COX
Governor

DEIDRE M. HENDERSON
Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E.
Executive Director

TERIANNE S. NEWELL, P.E.
Deputy Director of Planning and Investment

LISA J. WILSON, P.E.
Deputy Director of Engineering and Operations

May 5, 2023

The Honorable Governor Spencer Cox
Governor of Utah
350 N. State Street, Suite 200
Salt Lake City, Utah, 84114-2220

Subject: Utah Department of Transportation (UDOT) State Safety Oversight Agency (SSOA) 2022 Annual Report to the Governor

Governor Cox,

In accordance with the requirements of 49 Code of Federal Regulations (CFR) §674.13(a)(7), the Utah Department of Transportation (UDOT) State Safety Oversight Agency (SSOA) hereby provides its 2022 Annual Report on the status of the safety of Utah rail fixed guideway public transportation systems (RFGPTS) under SSOA jurisdiction.

The Federal Transit Administration (FTA) requires safety oversight by the states for RFGPTSs. Utah has one such system with one mode in operation by the Utah Transit Authority (UTA), named the TRAX light rail system. As such, the State of Utah is responsible for designating an SSOA to fulfill oversight requirements. This Annual Report highlights the UDOT SSOA's activities from January through December 2022, including engagement with the UTA regarding the implementation of its safety programs.

Please do not hesitate to contact the SSOA with any questions regarding ongoing activities to ensure the safety of the UTA TRAX light rail system.

Sincerely,

James W. Golden

James W. Golden, P.E, TSSP
State Safety Oversight Program Manager
Utah Department of Transportation
Traffic and Safety Division

Utah Department of Transportation
State Safety Oversight Program
Annual Report to the Governor – May 2023

Governor Cox:

Pursuant to federal regulation, the Utah Department of Transportation hereby presents this annual report of rail transit State Safety Oversight program activities. This report outlines the program's mission and details accomplishments in compliance with federal rules. Please do not hesitate to contact me at any time should you or your staff have questions or wish to discuss the program.

Respectfully:

James W. Golden

James W. Golden, P.E., TSSP
State Safety Oversight Program Manager, UDOT
jimgolden@utah.gov
Mobile: (801)-360-0052

Program Background and Overview

State Safety Oversight (SSO) of "rail fixed guideway public transportation systems" has been required by the Federal Transit Administration (FTA) since 1995, currently under 49 CFR Part 674 In the State of Utah, the modes covered by these regulations are Utah Transit Authority (UTA) TRAX Light Rail and the Sugar House Streetcar (S-Line).

Pursuant to federal regulation, each state designates a state safety oversight agency (SSOA). The Utah Department of Transportation (UDOT) has been designated as the SSOA for the state of Utah. The SSO program is housed within the Division of Traffic & Safety and led by one Program Manager and one Assistant Program Manager (position currently vacant). The program utilizes assistance from technical and administrative consultants.

Key SSOA program activities include:

- Meeting regularly with UTA safety, operations, maintenance, and emergency preparedness personnel,
- Conducting required triennial audits and as-needed special assessments,
- Approving UTA safety and emergency preparedness plans,
- Adopting UTA investigations of accidents, and
- Verifying UTA progress in correcting safety deficiencies.

The SSO program maintains a collaborative relationship with UTA, particularly with its Safety and Security Department and executive leadership. This facilitates strong communication between the parties and an atmosphere of mutual respect. When UDOT makes note of a deficiency or point of non-compliance at UTA, UDOT works with UTA to devise a path forward to eliminate or mitigate the issue. UTA's Safety and Security Department then monitors the Corrective Action Plan to resolution, providing UDOT with status updates and verification documentation.

Program Highlights from 2022:

Safety Plan Completion and Approval:

UDOT continued to work with UTA to update its Public Transportation Agency Safety Plan (PTASP) to include new information, some of which was required under the Bipartisan Infrastructure Law by December 2022. The additions focused on:

- Hazard reporting, analysis, and resolution
- Infectious disease control and response
- System safety and security certification
- Joint labor-management safety committee additions

Safety Risk Management:

UDOT partnered with UTA to enhance safety risk management and safety performance measurement programs through:

- Conducting operations reviews for operator rules compliance
- Attending monthly rail service center safety meetings

- Responding to FTA-required information requests and risk assessments prompted by hazards and events on other U.S. rail transit systems

Safety Event Investigations:

The SSO program tracked and adopted UTA's investigation reports on 24 events that met UDOT and/or FTA-established reporting thresholds. More than half of these events involved minor collisions between a train and an automobile at a grade crossing or intersection. The SSO program has been evaluating potential solutions, which could involve making changes to how the public interacts with transit vehicles at both light-rail stations and traffic lights. In all accident investigations, UDOT works with UTA to agree upon probable cause and develop solutions to prevent reoccurrence where possible. UTA has been very proactive in identifying incident trends and corrective measures, even when probable cause rests with the automobile driver.

On-site Inspections:

In August 2022, UDOT conducted an on-site inspection of UTA's wheel truing process at Midvale Service Center. UDOT conducted this inspection following a May 2022 TRAX LRV derailment event that took place leaving Midvale yard post wheel true. UDOT staff members were impressed with the level of knowledge showcased by UTA employees in relation to the wheel truing process of UTA light rail vehicles. UDOT staff had no findings, recommendations, or areas of concern following this inspection.

In December 2022, UDOT conducted an on-site special audit to assess the frequency of operations safety violations at UTA between 2020 and 2022. The special audit focused on red signal violations and other operations-based rule infringements by UTA operators. UTA staff worked closely with UDOT staff to identify areas of improvement. The audit resulted in four findings of non-compliance; for example, UDOT staff found current UTA field supervision practices are not effective at monitoring and identifying, documenting, mitigating, and consistently issuing discipline for rule violations relating to LRV operator compliance. UTA is currently in the process of creating corrective action plans to mitigate the risks related to these findings for improvement going forward.

Capital Projects

UDOT's SSO program successfully aided with the final planning and opening stages of the new TRAX light rail station at 600 South in downtown Salt Lake City. UDOT conducted on-site safety inspections of the station and modified grade crossing, concluding with a report on required actions related to signage and pavement markings before the station opened for service in the summer of 2022. UTA staff worked closely between departments to implement needed updates to the new station in relation to ADA patrons as well as mitigating potential hazards regarding public crosswalks and line of sight issues.

Planned Activities for 2023:

Triennial FTA Audit of UDOT

UDOT is prepared for a routine compliance audit of the SSO program by the FTA in August 2023. The SSO program has conducted an internal review to determine potential areas of improvement before the FTA audit begins.

Risk-Based Inspection Program

UDOT will develop, refine, and implement a highly structured risk-based inspection program as a result of new requirements in the Bipartisan Infrastructure Law (BIL). The BIL mandates implementation of an SSOA risk-based inspection program by October 2024. UDOT will develop new procedures and enhance its existing inspections to include a more regimented, data-driven, methodology. UDOT staff will meet with FTA staff members monthly to provide updates on the development of this program and will work with UTA at certain stages for data gathering.

Annual Hours of Service Audit

In fall of 2023, UDOT will conduct its annual hours of service audit to ensure compliance with FRA requirements for operator, controller, and signal maintainer personnel. UDOT conducts this audit as a result of UTA's shared use waiver of certain FRA oversight activities.

Additionally, UDOT will continue to conduct routine inspections, meetings, investigation review, and corrective action verification with UTA to ensure compliance and continuous safety improvement.

For further information, please feel free to contact the UDOT SSO Program Manager, whose contact information is contained on the cover page of this report.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Mary DeLoretto, Chief Capital Services Officer
	Viola Miller, Chief Financial Officer
PRESENTER(S):	Mary DeLoretto, Chief Capital Services Officer
	Viola Miller, Chief Financial Officer
	Daniel Hofer- Director of Capital Assets and Project Controls

TITLE:

R2023-06-01 - Resolution Approving the Proposed Second Amendment to the 2023-2027 Capital Plan

AGENDA ITEM TYPE:
Resolution

RECOMMENDATION:
Approve Resolution R2023-06-01 to adopt the second amendment to the 2023-2027 UTA Capital Plan.

BACKGROUND:
On December 21, 2022 the Board of Trustees approved the 2023-27 Capital Plan and the 2023 Capital Budget. A first amendment to the Capital Plan was presented to the Local Advisory Council (LAC) in February and adopted by the Board of Trustees on March 8th, 2023. UTA staff are now proposing a second amendment that will add two new projects to the 2023 Capital Plan and advance completion of an existing 2024 project to the 2023 budget year. This proposal would amend the 2023-27 Capital Plan, allowing the three projects described below to be considered for the 2023 Capital Budget amendment to support this plan.

Previous public meeting discussions on this proposed Capital Plan amendment include a preview to the Board on May 10th followed by a presentation to the LAC on May 31st, 2023. At the LAC's meeting they adopted resolution AR2023-05-02 to approve the plan and recommend adoption by the Board of Trustees. After the adoption of their resolution, individual LAC members requested future consideration for capital projects related to service in Salt Lake County's southeast and southwest service areas.

DISCUSSION:
The amendments being proposed to the 5-Year Capital Plan and 2023 Capital Budget include:

2023-2027 5-Year Capital Plan Amendment

This proposed amendment adds two projects to the approved 2023-2027 Capital Plan and accelerates existing funding for a third project from 2024 to 2023.

1) **ICI230- Workforce/Enterprise Asset Management System - 5-Year Cost is $13,446,000**

This is a new project that UTA feels is in alignment with our overall strategy. The project will upgrade and provide a replacement for a comprehensive Operations System. This is a critical operational and technology infrastructure to support and deploy UTA's daily service delivery needs in both Operations and Maintenance. The software UTA are procuring will have two primary focus areas:

1- Workforce Management System: A system that allows for the effective management of the entire bid to pay process for operators, train hosts, maintenance, and other UTA team members across all modes while adhering to all regulatory requirements.

2- Enterprise Asset Management System: A single, transit specific, asset management and maintenance system allowing for deep native integration with UTA data ecosystems.

Multiple application systems at UTA have exceeded or will reach the end of their useful life over the next couple years. An example of this is the OWATS (Operations Work Assignment and Tracking System) system that operators use to bid on routes, assign daily schedules, track, and measure key records. This system has several challenges with its infrastructure and is no longer supportable. There are currently over 21 separate one-off application systems used that require critical enhancements or full replacements. This project will be for a comprehensive Operating System for all Operations/Maintenance groups at UTA, which will improve reporting, improve operational efficiencies, and expand functionality with scalability and additional security measures.

2) **MSP240- Operator Restrooms throughout System - 5-Year Cost is $1,854,000**

This is a project that had previously existed in UTA's 5-year capital plan as recently as 2021. The project had stalled but is ready to be reintroduced into the capital program. The project delivery team has been working hard on its scope, schedule, and budget reviews and has a delivery plan that will allow for up to five restrooms to be installed throughout UTA's system this year. This project does have a federal grant associated with it and will also be transferring $854,000 from an existing SGR409- System Restroom project to complete funding for his project.

3) **MSP205- Tiger Program of Projects - 5-Year Cost is $13,269,000**

This is a project that UTA has been working on since 2018 and is nearing completion. This project is part of a federal grant which will expire this year in Q4. In order to complete this project before grant funds lapse, UTA is seeking to move the 2024 approved plan of $2,805,000 into the 2023 current budget year.

These three projects have a 5-year total estimated cost of $28.6 million, with a total net addition to the 5-year plan of $1 million (which is revenue backed through grant funding).

There is no impact to UTA's fund balances.

ICI230 & MSP240 projects have progressed to a point where they are ready to move forward and start the procurement process pending the addition of the projects to the capital plan and amended capital budget.

The majority of the funds for the additional project modifications will come from adjusting the budgets of other projects in the adopted 5-Year Capital Plan to better align with their overall delivery potential for the year based on the current anticipated need. UTA will add $1 million in grant funds to the MSP240 project in 2023.

ALTERNATIVES:

MSP240- Operator Restrooms Throughout the System & ICI230- Workforce/Enterprise Asset Management System projects could wait to be added to the 2024-2028 Capital Plan, but UTA would lose 6 months in procurement and construction time which would cause delays to these projects. UTA would also be at risk of losing the grant funds if they are not executed this year.

MSP205- Tiger Program of Projects could run a risk of having insufficient budget authority this year to complete the project in accordance with the terms of the grant agreement.

FISCAL IMPACT:

The request to amend the Five-Year Capital Plan to accommodate these three projects can be addressed by incorporating a secured federal grant and re-aging and/or repurposing approved expenditure plans from other projects in the adopted 5-Year Capital Plan.

These requests will not have a negative impact on UTA's fund balance over the 5-Year Capital Plan.

ATTACHMENTS:

- Resolution R2023-06-01
- Second Amendment to 2023-2027 Capital Plan (as an exhibit to the resolution)

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RESOLUTION OF THE BOARD OF TRUSTEES OF THE UTAH TRANSIT AUTHORITY APPROVING THE SECOND AMENDMENT OF THE AUTHORITY'S 2023 - 2027 CAPITAL PLAN

R2023-06-01 June 14, 2023

WHEREAS, the Utah Transit Authority (the "Authority") is a large public transit district organized under the laws of the State of Utah and was created to transact and exercise all of the powers provided for in the Utah Limited Purpose Local Government Entities - Special Districts Act and the Utah Public Transit District Act; and

WHEREAS, Board Policy 2.1 – Financial Management requires the Executive Director to develop a five-year capital plan annually that is fiscally constrained, maintains all assets at a state of good repair, protects the Authority's capital investments and minimizes future maintenance and replacement costs; and

WHEREAS, the Authority adopted by Resolution R2022-12-04 a Five-Year Capital Plan for the years 2023 through 2027 (the "Plan") which contains a prioritized list of planned capital projects, a description of the annual prioritization process, and projected funding on an annual, cumulative and project basis; and

WHEREAS, the Authority would like to amend the Plan to reflect amendments that advance one existing project into the 2023 year, adds two new projects, modifies several project budgets to absorb the addition of new projects, and adds one-million dollars of revenue-backed funds to the Plan; and

WHEREAS, on May 31, 2023, in Resolution AR2023-05-02 the Local Advisory Council reviewed the Authority's proposed Second Amendment to the 2023-2027 Capital Plan and believed it is in the best interest of the Authority and all constituents to approve the Second Amendment and to forward it to the Board of Trustees with a recommendation for approval; and

WHEREAS, the Board of Trustees desires to amend the Authority's 2023-2027 Capital Plan as set forth in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Utah Transit Authority:

1. That the Board of Trustees hereby adopts the Second Amendment of the Authority's 2023-2027 Capital Plan attached as Exhibit A.

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2. That the Board formally ratifies actions taken by the Authority, including those taken by the Executive Director, staff, and counsel that are necessary or appropriate to give effect to this Resolution.

3. That the corporate seal be attached hereto.

Approved and adopted this 14th day of June 2023.

_____
Jeff Acerson, Acting Chair
Board of Trustees

ATTEST:

_____
Secretary of the Authority

(Corporate Seal)

Approved As To Form:

DocuSigned by:
Tim Merrill
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Legal Counsel

R2023-06-01

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Exhibit A

(Second Amendment of the Authority's 2023-2027 Capital Plan)

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Proposed Capital Plan Amendment - 2023-2027 Program Summary

Department/ Project Code/Project Name	2023 Total Budget	2024 Total Budget	2025 Total Budget	2026 Total Budget	2027 Total Budget	2023-2027 External Funds Total Budget	2023-2027 UTA Funds Total Budget	2023-2027 Total Budget
5310 Projects	8,832,000	681,000	307,000	307,000	307,000	10,166,000	268,000	10,434,000
CDA006- 5310 Admin Funds	307,000	307,000	307,000	307,000	307,000	1,535,000	-	1,535,000
ICI181- Mobility Management	-	-	-	-	-	-	-	-
ICI213- E Voucher Phase 2	415,000	374,000	-	-	-	539,000	250,000	789,000
ICI227- Voucher Project	10,000	-	-	-	-	10,000	-	10,000
MSP175- 5310 Ogden/Layton Funds	-	-	-	-	-	-	-	-
MSP179- FFY 15/17 - 5310 Program - OGDEN/LAYTON	24,000	-	-	-	-	24,000	-	24,000
MSP180- FFY 15/17 - 5310 Program - PROVO/OREM	64,000	-	-	-	-	64,000	-	64,000
MSP181- FFY 15/17 - 5310 Program - SLC/West Valley	144,000	-	-	-	-	144,000	-	144,000
MSP220- FFY 17/18 - 5310 Program - SLC/West Valley	280,000	-	-	-	-	280,000	-	280,000
MSP221- FFY 17/18 - 5310 Program - Odgen/Layton	137,000	-	-	-	-	137,000	-	137,000
MSP222- FFY 17/18 - 5310 Program - Provo/Orem	215,000	-	-	-	-	215,000	-	215,000
MSP249- FFY 19/20 - 5310 Program - SLC/West Valley (Operating)	477,000	-	-	-	-	477,000	-	477,000
MSP250- FFY 19/20 - 5310 Program - Ogden/Layton (Operating)	240,000	-	-	-	-	240,000	-	240,000
MSP251- FFY 19/20 - 5310 Program - Provo/Orem (Operating)	175,000	-	-	-	-	175,000	-	175,000
MSP276- FFY 2022 - 5310 Program - SLC/West Valley	1,231,000	-	-	-	-	1,231,000	-	1,231,000
MSP277- FFY 2022 - 5310 Program - Ogden/Layton	686,000	-	-	-	-	686,000	-	686,000
MSP278- FFY 2022 - 5310 Program - Provo/Orem	474,000	-	-	-	-	474,000	-	474,000
MSP279- FFY 2021 - 5310 Program - Ogden/Layton	383,000	-	-	-	-	383,000	-	383,000
MSP280- FFY 2021 - 5310 Program - SLC/West Valley	677,000	-	-	-	-	677,000	-	677,000
MSP281- FFY 2021 - 5310 Program - Provo/Orem	260,000	-	-	-	-	260,000	-	260,000
MSP295- ARPA 5310	249,000	-	-	-	-	249,000	-	249,000
MSP296- CRRSAA 5310	249,000	-	-	-	-	249,000	-	249,000
MSP297- FFY19/20 - 5310 Program - SLC/West Valley (Capital)	1,113,000	-	-	-	-	1,095,000	18,000	1,113,000
MSP298- FFY19/20 - 5310 Program - Ogden/Layton (Capital)	628,000	-	-	-	-	628,000	-	628,000
MSP299- FFY19/20 - 5310 Program - Provo/Orem (Capital)	394,000	-	-	-	-	394,000	-	394,000
Capital Construction	42,099,000	2,050,000	1,000,000	500,000	-	36,437,000	9,212,000	45,649,000
MSP081- Tooele Bus Facility	-	-	-	-	-	-	-	-
MSP102- Depot District	12,001,000	-	-	-	-	11,812,000	189,000	12,001,000
MSP122- Positive Train Control	-	-	-	-	-	-	-	-
MSP124- Airport Station Relocation	-	-	-	-	-	-	-	-
MSP185- Ogden/Weber State University BRT	25,785,000	-	-	-	-	24,625,000	1,160,000	25,785,000
MSP194- 650 South Station	-	-	-	-	-	-	-	-
MSP227- Meadowbrook Expansion	-	-	-	-	-	-	-	-
MSP228- Operator Restrooms- Salt Lake County	-	-	-	-	-	-	-	-
MSP271- MOW Training Yard	2,050,000	2,050,000	1,000,000	500,000	-	-	5,600,000	5,600,000
MSP272- Trax Operational Simulator	1,763,000	-	-	-	-	-	1,763,000	1,763,000
MSP282- Frontrunner Platform Modification	500,000	-	-	-	-	-	500,000	500,000
Capital Development	88,816,000	100,404,000	119,889,000	27,094,000	14,375,000	240,141,000	110,437,000	350,578,000
FMA683- Apprenticeship Training Aids	-	-	-	-	-	-	-	-
MSP096- Provo-Orem BRT	-	-	-	-	-	-	-	-
MSP132- Technical Support for ICPS Maintenance and Enhancements	36,000	-	-	-	-	-	36,000	36,000
MSP140- Box Elder County Corridor Preservation	2,075,000	1,575,000	1,575,000	1,575,000	1,575,000	-	8,375,000	8,375,000
MSP156- Prop 1 Passenger Imp. Davis County	943,000	-	-	-	-	-	943,000	943,000
MSP162- Electric Bus Purchase Lo/No Grant	-	-	-	-	-	-	-	-

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MSP193- Weber County Corridor Preservation	2,824,000	-	-	-	-	2,824,000	-	2,824,000
MSP196- Bus Stop Imp System-Wide ADA	-	-	-	-	-	-	-	-
MSP202- Davis-SLC Community Connector	1,700,000	5,864,000	35,566,000	12,519,000	-	51,192,000	4,457,000	55,649,000
MSP205- TIGER Program of Projects	13,269,000	-	-	-	-	7,568,000	5,701,000	13,269,000
MSP207- 3300/3500 South MAX Exp/Optimization	1,101,000	1,001,000	-	-	-	1,976,000	126,000	2,102,000
MSP208- Clearfield FR Station Trail	1,501,000	-	-	-	-	1,451,000	50,000	1,501,000
MSP215- Sharp/Tintic	110,000	395,000	-	-	-	-	505,000	505,000
MSP216- Point of the Mountain Transit	3,000,000	500,000	500,000	500,000	500,000	5,000,000	-	5,000,000
MSP224- Bus Stop Improvements- Utah County	-	-	-	-	-	-	-	-
MSP229- Bus Stop Imp/signage - SL County	1,478,000	-	-	-	-	-	1,478,000	1,478,000
MSP232- Northern Utah County Double Track	-	-	-	-	-	-	-	-
MSP240- Operator Restrooms throughout System	1,854,000	-	-	-	-	1,000,000	854,000	1,854,000
MSP248- Planning & Environmental Analysis	360,000	360,000	500,000	500,000	500,000	-	2,220,000	2,220,000
MSP252- FrontRunner Forward	3,880,000	500,000	500,000	800,000	600,000	6,280,000	-	6,280,000
MSP253- Mid-Valley Connector	15,001,000	45,103,000	43,976,000	-	-	104,080,000	-	104,080,000
MSP254- TechLink Corridor	1,200,000	1,200,000	5,000,000	-	-	6,200,000	1,200,000	7,400,000
MSP255- Central Corridor Transit	-	-	-	-	-	-	-	-
MSP258- Mt. Ogden Admin Bldg. Expansion	3,090,000	5,900,000	2,200,000	-	-	-	11,190,000	11,190,000
MSP259- S-Line Extension	7,870,000	6,700,000	3,080,000	-	-	17,650,000	-	17,650,000
MSP260- Westside Express (5600 West)	1,000,000	9,086,000	7,322,000	-	-	16,908,000	500,000	17,408,000
MSP264- South Valley Transit	3,830,000	2,000,000	2,620,000	-	-	5,830,000	2,620,000	8,450,000
MSP265- Program Management Support	3,300,000	3,300,000	3,300,000	3,300,000	3,300,000	-	16,500,000	16,500,000
MSP266- 3500 South TSP Upgrade	-	-	-	-	-	-	-	-
MSP267- New Maintenance Training Facility	2,300,000	2,300,000	3,300,000	-	-	3,760,000	4,140,000	7,900,000
MSP268- Optical Detection Next Steps	109,000	-	-	-	-	35,000	74,000	109,000
MSP269- Warm Springs Sewer Line Relocation	50,000	-	-	-	-	-	50,000	50,000
MSP273- Public Partnership Projects	2,000,000	-	-	-	-	-	2,000,000	2,000,000
MSP274- Historic Utah Southern Rail Trail	14,000	-	-	-	-	-	14,000	14,000
MSP286- Utah County Park & Ride Lots	230,000	2,220,000	2,550,000	-	-	4,200,000	800,000	5,000,000
MSP287- 900 East UVX Station	4,300,000	-	-	-	-	4,000,000	300,000	4,300,000
MSP288- Sustainability Project Pool	200,000	200,000	200,000	200,000	200,000	-	1,000,000	1,000,000
MSP289- Historic Orchard Pathway (Box Elder County)	206,000	-	-	-	-	187,000	19,000	206,000
MSP290- Orange Street Microtransit Vehicle Electric Chargers for micr	414,000	-	-	-	-	-	414,000	414,000
MSP291- CareATC Location Build Out	35,000	-	-	-	-	-	35,000	35,000
MSP293- Sheperd Lane Embankment	300,000	3,700,000	-	-	-	-	4,000,000	4,000,000
REV239- HB322 Future Rail Car Purchase Payment	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000	-	25,000,000	25,000,000
SGR358- Frontrunner Paint Booth	-	-	-	-	-	-	-	-
SGR407- Bus Stop Enhancements	3,090,000	1,000,000	1,100,000	1,100,000	1,100,000	-	7,390,000	7,390,000
SGR408- Route End of Line (EOL) Enhancements	1,000,000	1,500,000	500,000	500,000	500,000	-	4,000,000	4,000,000
SGR409- System Restrooms	146,000	1,000,000	1,100,000	1,100,000	1,100,000	-	4,446,000	4,446,000
Contingency	3,496,000	5,000,000	5,000,000	5,000,000	5,000,000	-	23,496,000	23,496,000
MSP999- Capital Contingency	3,496,000	5,000,000	5,000,000	5,000,000	5,000,000	-	23,496,000	23,496,000
Facilities- SGR	7,021,000	9,117,000	6,245,000	3,527,000	3,823,000	-	29,733,000	29,733,000
FMA559- Office Equipment Reserve	100,000	100,000	100,000	100,000	-	-	400,000	400,000
FMA652- Facilities, Equipment Managed Reserve	571,000	500,000	1,000,000	500,000	750,000	-	3,321,000	3,321,000

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2023-2027 Program Summary

Department/ Project Code/Project Name	2023 Total Budget	2024 Total Budget	2025 Total Budget	2026 Total Budget	2027 Total Budget	2023-2027 External Funds Total Budget	2023-2027 UTA Funds Total Budget	2023-2027 Total Budget
FMA653- Facilities Rehab and Replacement	1,780,000	1,500,000	2,000,000	1,000,000	1,000,000	-	7,280,000	7,280,000
FMA672- Park and Ride Rehab/Replacement	500,000	750,000	1,000,000	500,000	500,000	-	3,250,000	3,250,000
FMA673- Stations and Platforms Rehab/Replace	560,000	250,000	250,000	500,000	250,000	-	1,810,000	1,810,000
FMA678- Meadowbrook Flooring/Lighting	-	-	-	-	-	-	-	-
FMA679- Building Remodels/Reconfiguration	1,170,000	900,000	900,000	900,000	1,200,000	-	5,070,000	5,070,000
FMA685- Wheel Truing Machine JRSC	-	4,000,000	-	-	-	-	4,000,000	4,000,000
FMA686- Warehouse Equipment Managed Reserve	375,000	117,000	95,000	27,000	123,000	-	737,000	737,000
SGR390- Jordan River Bldg 2 Remodel	1,965,000	1,000,000	900,000	-	-	-	3,865,000	3,865,000
Information Technology	21,990,000	26,983,000	17,936,000	10,964,000	3,569,000	-	81,442,000	81,442,000
ICI001- Passenger Information Signage	3,202,000	350,000	-	-	-	-	3,552,000	3,552,000
ICI005- EFC – Rehab & Replacement	225,000	150,000	-	-	-	-	375,000	375,000
ICI146- FrontRunner WiFi Enhancements	712,000	100,000	50,000	50,000	50,000	-	962,000	962,000
ICI173- JDE System Enhancements	50,000	50,000	50,000	50,000	50,000	-	250,000	250,000
ICI179- Network Infrastructure Equipment & Software	242,000	271,000	313,000	279,000	150,000	-	1,255,000	1,255,000
ICI183- Legal SW	-	-	-	-	-	-	-	-
ICI186- In House Application Development	283,000	200,000	200,000	200,000	200,000	-	1,083,000	1,083,000
ICI191- IT Managed Reserves	446,000	400,000	400,000	400,000	400,000	-	2,046,000	2,046,000
ICI197- Bus Communications On-Board Technology	102,000	100,000	100,000	200,000	200,000	-	702,000	702,000
ICI198- Info Security HW/SW (PCI Comp, OT Networks, Cybersecurity)	410,000	283,000	260,000	475,000	250,000	-	1,678,000	1,678,000
ICI199- Rail Communication Onboard Tech	197,000	100,000	100,000	100,000	100,000	-	597,000	597,000
ICI201- Server, Storage Infrastructure Equipment & Software	1,681,000	269,000	286,000	173,000	173,000	-	2,582,000	2,582,000
ICI202- Radio Comm Infrastructure	174,000	100,000	100,000	100,000	100,000	-	574,000	574,000
ICI211- TC-1 Timekeeping Upgrade	-	-	-	-	-	-	-	-
ICI214- Init APC Upgrade	486,000	243,000	243,000	-	-	-	972,000	972,000
ICI216- SSBU Mobility Eligibility Center Trapeze Software	170,000	-	-	-	-	-	170,000	170,000
ICI217- Transit Management System	950,000	-	-	-	-	-	950,000	950,000
ICI222- Fares Systems Replacement Program	5,500,000	13,867,000	11,434,000	6,587,000	200,000	-	37,588,000	37,588,000
ICI223- ERP Analysis	300,000	-	-	-	-	-	300,000	300,000
ICI224- JDE 9.2. Application Upgrade - UNx	-	-	-	-	-	-	-	-
ICI225- SharePoint Cloud Migration	60,000	-	-	-	-	-	60,000	60,000
ICI226- New Radio Communication System	2,000,000	7,000,000	500,000	150,000	150,000	-	9,800,000	9,800,000
ICI228- CPO New HRIS system application upgrade	500,000	1,000,000	1,000,000	-	-	-	2,500,000	2,500,000
ICI230- Workforce/Enterprise Asset Management	4,300,000	2,500,000	2,900,000	2,200,000	1,546,000	-	13,446,000	13,446,000
Infrastructure SGR Projects	53,309,000	40,623,000	35,095,000	27,963,000	25,572,000	111,520,000	71,042,000	182,562,000
MSP189- Signal Pre-emption Projects w/UDOT	200,000	-	-	-	-	200,000	-	200,000
MSP241- Queue Cutter Projects with UDOT	-	-	-	-	-	-	-	-
SGR047- Stray Current Mitigation	567,000	534,000	603,000	510,000	530,000	-	2,744,000	2,744,000
SGR359- Bridge Rehabilitation & Maintenance	625,000	472,000	400,000	320,000	400,000	-	2,217,000	2,217,000
SGR370- Light Rail Red Signal Enforcement	3,315,000	3,500,000	3,000,000	2,500,000	-	-	12,315,000	12,315,000
SGR385- Rail Rehab and Replacement	14,650,000	3,500,000	4,000,000	4,000,000	4,000,000	18,920,000	11,230,000	30,150,000
SGR393- Grade Crossing Rehab/Replacement	4,750,000	3,000,000	3,000,000	3,000,000	3,000,000	6,607,000	10,143,000	16,750,000
SGR397- Traction Power Rehab/Replacement	15,332,000	15,332,000	6,152,000	800,000	-	29,451,000	8,165,000	37,616,000
SGR398- OCS Rehab/Replace	2,000,000	2,035,000	8,000,000	6,000,000	6,000,000	19,228,000	4,807,000	24,035,000
SGR401- Ballast and Tie Rehab/Replacement	250,000	350,000	400,000	400,000	400,000	-	1,800,000	1,800,000
SGR403- Train Control Rehab/Replacement	4,400,000	8,600,000	6,000,000	7,543,000	7,492,000	22,616,000	11,419,000	34,035,000

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Proposed Capital Plan Amendment - 2023-2027 Program Summary

Department/ Project Code/Project Name	2023 Total Budget	2024 Total Budget	2025 Total Budget	2026 Total Budget	2027 Total Budget	2023-2027 External Funds Total Budget	2023-2027 UTA Funds Total Budget	2023-2027 Total Budget
SGR404- Rail Switches/Trackwork Controls	2,820,000	1,300,000	2,000,000	2,250,000	3,000,000	8,496,000	2,874,000	11,370,000
SGR410- Fiber Rehab/Replacement	4,400,000	2,000,000	1,540,000	640,000	750,000	6,002,000	3,328,000	9,330,000
Planning	4,127,000	1,935,000	1,800,000	1,800,000	1,800,000	1,683,000	9,779,000	11,462,000
ICI185- WFRC Grant for Passenger Info improvements (Real Time Bus S	412,000	-	-	-	-	336,000	76,000	412,000
ICI221- Customer Relations Software Replacement	270,000	135,000	-	-	-	-	405,000	405,000
MSP198- Wayfinding Plan	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	-	7,500,000	7,500,000
MSP284- Route Planning Restoration using Equity Index	300,000	-	-	-	-	300,000	-	300,000
MSP285- Bus Network Optimization Program (BNOP)	100,000	-	-	-	-	-	100,000	100,000
MSP292- AOPPP: Paratransit Forward Study	385,000	-	-	-	-	385,000	-	385,000
MSP294- Planning Studies Managed Reserve	300,000	300,000	300,000	300,000	300,000	-	1,500,000	1,500,000
REV234- Tooele County Microtransit & Vehicle Electrification	860,000	-	-	-	-	662,000	198,000	860,000
Property/TOC	8,627,000	2,634,000	1,184,000	791,000	63,000	1,955,000	11,344,000	13,299,000
MSP186- Sandy Parking Structure	-	-	-	-	-	-	-	-
MSP261- Property Management - Capital Repairs	40,000	40,000	40,000	40,000	-	-	160,000	160,000
MSP262- SLCentral HQ Office	1,780,000	1,000,000	-	-	-	-	2,780,000	2,780,000
MSP263- TOD Working Capital	688,000	688,000	688,000	688,000	-	-	2,752,000	2,752,000
MSP275- Station Area Planning	1,119,000	906,000	456,000	63,000	63,000	1,955,000	652,000	2,607,000
MSP283- ROW & Facility Property Opportunity Buy	5,000,000	-	-	-	-	-	5,000,000	5,000,000
Revenue/Service Vehicles	92,249,000	76,910,000	80,935,000	144,664,000	190,278,000	221,036,000	364,000,000	585,036,000
MSP210- Update Bike Cars on FrontRunner	-	-	-	-	-	-	-	-
MSP247- Light Rail Seat Replacement	-	-	-	-	-	-	-	-
MSP270- Transit Signal Priority On Board Units (TOBU) Project	113,000	661,000	1,269,000	580,000	22,000	654,000	1,991,000	2,645,000
REV205- Replacement Non-Revenue Support Vehicles	1,148,000	500,000	500,000	750,000	750,000	-	3,648,000	3,648,000
REV209- Paratransit Replacements	3,328,000	3,328,000	2,883,000	3,435,000	3,546,000	-	16,520,000	16,520,000
REV211- Replacement Buses	31,452,000	38,787,000	42,816,000	50,891,000	26,910,000	-	190,856,000	190,856,000
REV212- Park City Lo/No Grant	4,543,000	-	-	-	-	4,222,000	321,000	4,543,000
REV224- Bus Overhaul	2,100,000	2,000,000	2,000,000	2,000,000	2,000,000	-	10,100,000	10,100,000
REV232- Van Pool Van Replacements	1,923,000	1,676,000	1,717,000	1,758,000	1,800,000	-	8,874,000	8,874,000
REV233- Commuter Rail Vehicle Procurement - Used	4,000,000	8,000,000	-	-	-	-	12,000,000	12,000,000
REV236- VW Battery Buses	22,030,000	-	-	-	-	15,508,000	6,522,000	22,030,000
REV237- GPS Telemetrics System	380,000	-	-	-	-	-	380,000	380,000
REV238- SD100/SD160 Light Rail Vehicle Replacement	2,000,000	5,000,000	16,000,000	73,500,000	143,500,000	180,000,000	60,000,000	240,000,000
SGR040- Light Rail Vehicle Rehab	13,610,000	10,662,000	9,000,000	8,000,000	8,000,000	20,652,000	28,620,000	49,272,000
SGR353- Commuter Rail Engine Overhaul	3,035,000	2,395,000	1,000,000	-	-	-	6,430,000	6,430,000
SGR386- Repair Damaged LRV	1,422,000	1,901,000	-	-	-	-	3,323,000	3,323,000
SGR391- Commuter Rail Vehicle Rehab	1,165,000	2,000,000	3,750,000	3,750,000	3,750,000	-	14,415,000	14,415,000
Safety and Security	6,094,000	2,823,000	2,817,000	2,793,000	2,912,000	21,000	17,418,000	17,439,000
FMA516- Corridor Fencing	50,000	55,000	61,000	67,000	74,000	-	307,000	307,000
FMA543- Police Fleet Vehicles	400,000	53,000	55,000	57,000	59,000	-	624,000	624,000
FMA557- Bus Safety and Security	30,000	33,000	37,000	41,000	45,000	-	186,000	186,000
FMA604- Safety General Projects	100,000	110,000	121,000	133,000	146,000	-	610,000	610,000
FMA645- Camera Sustainability	670,000	682,000	696,000	710,000	726,000	-	3,484,000	3,484,000
FMA656- Facility Security	50,000	50,000	50,000	-	74,000	-	224,000	224,000
FMA658- Bus Replacement Camera System	2,470,000	621,000	621,000	621,000	621,000	-	4,954,000	4,954,000
FMA659- Emergency Operations Training	15,000	-	15,000	-	-	-	30,000	30,000

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Proposed Capital Plan Amendment - 2023-2027 Program Summary

Department/ Project Code/Project Name	2023 Total Budget	2024 Total Budget	2025 Total Budget	2026 Total Budget	2027 Total Budget	2023-2027 External Funds Total Budget	2023-2027 UTA Funds Total Budget	2023-2027 Total Budget
FMA676- Security General Projects	120,000	22,000	24,000	27,000	30,000	-	223,000	223,000
FMA680- Suicide Prevention Research Project	40,000	30,000	-	-	-	21,000	49,000	70,000
FMA681- Arc Flash Analysis	705,000	-	-	-	-	-	705,000	705,000
FMA684- Police Managed Reserve	300,000	150,000	150,000	150,000	150,000	-	900,000	900,000
ICI140- Next Crossing Cameras	40,000	70,000	40,000	40,000	40,000	-	230,000	230,000
ICI229- Red/Blue/Green/Frontrunner Camera Systems	1,104,000	947,000	947,000	947,000	947,000	-	4,892,000	4,892,000
Grand Total	**336,660,000**	**269,160,000**	**272,208,000**	**225,403,000**	**247,699,000**	**622,959,000**	**728,171,000**	**1,351,130,000**

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Viola Miller, Chief Financial Officer
	Mary DeLoretto, Chief Service Development Officer
PRESENTER(S):	Viola Miller, Chief Financial Officer
	Brad Armstrong, Director Budget and Financial Strategy
	Daniel Hofer, Director Capital Assets and Project Controls

TITLE:

R2023-06-02 - Resolution Adopting the Authority's Amended 2023 Budget

AGENDA ITEM TYPE:
Resolution

RECOMMENDATION:
Approve Resolution R2023-06-02 to adopt Amendment 1 to the 2023 Operating Budget and Amendment 2 to the 2023 Capital Budget.

BACKGROUND:
Board of Trustee Policy Number 2.1 - Financial Management, allows the Board of Trustees, after consultation with the Local Advisory Council, to amend the budget at any time after its adoption. The Authority needs to amend the 2023 Operating and Capital Budgets to account for:

- The impacts of the new collective bargaining agreement with the ATU Local 382
- Adjustments to compensation for certain administrative positions to align with labor market studies
- Minor movement of Operating budget authority between Chief Offices (no cost impact)
- Amendment 2 to the 2023 Capital Budget.

The proposed amendments were presented at the May 10, 2023 Board meeting and to the Local Advisory Council for their consultation on May 31, 2023. The Local Advisory Council had no objections to the proposed amendments.

DISCUSSION:
This resolution provides for the adoption of amendments to 2023 Operating and Capital Budgets as described below:

2023 Operating Budget Amendment #1

Bargaining Agreement
UTA and ATU Local 382 negotiated and agreed upon a new Bargaining agreement which was ratified recently by represented members of the bargaining unit and the UTA Board. The term of the new contract is for three years ending in December of 2025. Ratification of this contract resulted in higher compensation costs than are currently reflected in the 2023 Operating Budget.

The terms of the newly ratified bargaining agreement will result in increased compensation expenses for UTA in 2023. UTA is proposing to increase the budgeted costs by $7.74 million to reflect these changes. Included in these costs would be additional wage, fringe benefits, leave expenses, and a one-time signing bonus for members.

Labor Market Adjustments
The UTA People Office engaged in labor market studies to assess whether compensation for various administrative positions within UTA are set at a competitive level to retain and attract the right people to work at UTA. The People Office identified several positions that should have their compensation levels increased to competitive levels. Implementation of these recommendations will result in increased costs which are not currently reflected in the 2023 Operating Budget. These adjustments are designed to help UTA be more competitive in both retaining and attracting talented individuals to administrative positions within the organization. If approved, the proposed adjustments will require an additional $1.01 million increase in the Amended 2023 Budget.

For informational purposes, there have been several moves of full-time employee (FTE) positions between various UTA departments since the approval of the 2023 Operating Budget. As a result of these moves, costs have changed in various budget mode categories shown in Exhibit A-2 of the resolution. However, these moves result in no net change in overall costs in the budget.

2023 Capital Budget Amendment #2

For the 2023 Capital Budget Amendment #2, UTA staff are proposing the addition of two new projects to the 2023 Capital Plan, and to advance the adopted 2024 planned expenditures of an existing project to the 2023 budget year to facilitate delivery of that project. This proposal would add budget authority in 2023 for the three projects described below. The proposed amendment will require an additional $6,663,000 in 2023 Budget authority. This includes:

• MSP205- Tiger Program of Projects
Proposed 2023 Budget $13,269,000 - net increase $2,809,000
$2,809,000 in planned 2024 funding accelerated from 2024 to 2023 to complete this project per grant agreements.

- **MSP240- Operator Restrooms throughout System**

Proposed 2023 Budget $1,854,000 - net 2023 project increase $1,000,000

$1,000,000 has been received in grant funding for this project, and the remaining $854,00 in required budget authority will be realized by reducing the 2023 budget for project SGR409- System Restrooms Modification.

- **ICI230- Workforce/Enterprise Asset Management System**

Proposed 2023 Budget $4,300,000, net 2023 project increase $2,854,000

This is a new project being added by amendment to the Capital Plan and will have a net increase of $2,854,000 to 2023 budget authority. This increase will be offset by reducing the 2023 budget for project MSP269- Warm Springs Sewer Line Relocation, with the balance being realized by reductions in 2024 projects.

ALTERNATIVES:

Capital Budget Amendment #2

MSP240- Operator Restrooms throughout System & ICI230- Workforce/Enterprise Asset Management System projects could wait to be added to the 2024-2028 Capital Plan, but UTA would lose 6 months in procurement and construction time which would cause delays to these projects. UTA would also be at risk of losing the grant funds if they are not executed this year.

MSP205- Tiger Program of Projects could run a risk of having insufficient budget authority this year to complete the project in accordance with the terms of their grant agreement.

FISCAL IMPACT:

Operating Budget Amendment #1

The request to amend the 2023 Operating Budget will increase 2023 budget authority by $8.75 million. This will include the additional budgeted expense of $7.74 million associated with the ratified agreement with the ATU, and an additional $1.01 million in budgeted expense associated with administrative market rate compensation adjustments.

Capital Budget Amendment #2

The request to amend the 2023 Capital Budget will add $6.663 million to the 2023 Capital Budget to fund these three projects. As detailed in Exhibit A-1, this will be achieved by reducing budget authority for two projects, accelerating planned expenditures for the TIGER Program of Projects from 2024, and recognizing new grant funding for the Operator restroom project.

This capital budget amendment will not have a negative impact on UTA's fund balance over the 5-Year Capital Plan.

ATTACHMENTS:

- Resolution R2023-06-02, including the following exhibits:
- Exhibit A: 2023 Operating Budget Amendment 1 (by Mode)

- Exhibit A-1: 2023 Capital Budget Amendment 2
- Exhibit A-2: 2023 Operating Budget Amendment 1 (Financial by Office)
- Exhibit A-2: 2023 Operating Budget Amendment 1 (FTE)

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RESOLUTION OF THE BOARD OF TRUSTEES OF THE UTAH TRANSIT AUTHORITY ADOPTING THE AUTHORITY'S AMENDED 2023 BUDGET

R2023-06-02 June 14, 2023

WHEREAS, the Utah Transit Authority (the "Authority") is a large public transit district organized under the laws of the State of Utah and was created to transact and exercise all of the powers provided for in the Utah Limited Purpose Local Government Entities - Special Districts Act and the Utah Public Transit District Act (the "Act"); and

WHEREAS, the Act and Board Policy 2.1 – Financial Management require the Authority to prepare an annual budget to be approved by the Board of Trustees (the "Board) after consultation with the Local Advisory Council; and

WHEREAS, the Board adopted the Authority's 2023 Budget on December 21, 2023, in Resolution R2022-12-05; and

WHEREAS, Board Policy 2.1 – Financial Management allows the Board to amend or supplement the budget at any time after its adoption; and

WHEREAS, the Authority would like to amend the 2023 Operating Budget and the 2023 Capital Budget to reflect necessary changes to budgets, as described in Exhibit A, Exhibit A-1, and Exhibit A-2 to this resolution; and

WHEREAS, on May 31, 2023, the Local Advisory Council reviewed the Authority's proposed Amendment to the 2023 Budget and provided their consultation and advice to the Board of Trustees; and

WHEREAS, the Board has reviewed the proposed Amendment to the 2023 Budget as presented by Authority staff, and believes that the amended budget reasonably fulfills the needs of the Authority and is in keeping with its responsibility for fiscal conservancy.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Utah Transit Authority:

1. That the Board hereby approves the adoption of the Authority's Amended 2023 Budget, a copy of which is attached to this Resolution as in Exhibit A, and Exhibit A-1.

2. That the 2023 monthly financial reports shall also include budget versus actual comparisons based upon the operating budget classifications attached to this Resolution as Exhibit A-2.

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3. That this Resolution stay in full force and effect until superseded by further action of the Board.

4. That the Board hereby approves any and all actions taken by the Authority, including those taken by the Executive Director, staff, and counsel that are necessary to give effect to this Resolution.

5. That the corporate seal be attached hereto.

Approved and adopted this 14th day of June 2023.

_____
Jeff Acerson, Acting Chair
Board of Trustees

ATTEST:

_____
Secretary of the Authority

(Corporate Seal)

Approved As To Form:

DocuSigned by:
Tim Merrill
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Legal Counsel

R2023-06-02

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Exhibit A

(First Amendment of the Authority's 2023 Operating Budget)

UTAH TRANSIT AUTHORITY
2023 OPERATING BUDGET AMENDMENT
June 14, 2023 **Exhibit A**

		Final 2023 Budget	Bargaining Comp Adjustments	Admin Market Wage Adjustments	Other Adjustments	Amended 2023 Budget
	Revenue					
1	Sales Tax	$ 480,000,000				$ 480,000,000
2	Federal Preventive Maintenance	84,903,000				84,903,000
3	Passenger Revenue	35,850,000				35,850,000
4	Advertising	2,322,000				2,322,000
5	Investment Income	7,215,000			-	7,215,000
6	Other Revenues	11,634,000			-	11,634,000
7	Stimulus Funding	-				-
8	**Total Revenue**	**621,924,000**	**-**	**-**	**-**	**621,924,000**
	Operating Expense					
9	Bus	133,746,000	5,454,000	309,000	(242,000)	139,267,000
10	Commuter Rail	35,258,000	612,000	122,000	-	35,992,000
11	Light Rail	61,926,000	1,658,000	28,000	(63,000)	63,549,000
12	Paratransit Service	27,257,000	895,000	96,000	-	28,248,000
13	Rideshare/Vanpool	3,995,000	9,000	11,000	-	4,015,000
14	Microtransit	9,193,000	4,000	-	(33,000)	9,164,000
15	Operations Support	61,869,000	663,000	514,000	(258,000)	62,788,000
16	Management & Support	55,199,000	(1,628,000)	(152,000)	364,000	53,783,000
17	Planning/Capital Support	11,114,000	68,000	77,000	232,000	11,491,000
18	Non-Departmental	1,000,000	-	-	-	1,000,000
19	**Total Operating Expense**	**400,557,000**	**7,735,000**	**1,005,000**	**-**	**409,297,000**
	Debt Service, Contribution to Reserves, and Transfer to Capital					
20	Principal and Interest	157,941,000				157,941,000
21	Bond Service Utah County for UVX BRT	3,375,000				3,375,000
22	Contribution to Reserves	15,640,000				15,640,000
23	Transfer to Capital	44,411,000			-	44,411,000
24	**Total Debt Service and Reserves**	**221,367,000**	**-**	**-**	**-**	**221,367,000**
25	**Total Expense**	**$ 621,924,000**	**$ 7,735,000**	**$ 1,005,000**	**$ -**	**$ 630,664,000**

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Exhibit A-1

(Second Amendment of the Authority's 2023 Capital Budget)

UTAH TRANSIT AUTHORITY
2023 CAPITAL BUDGET AMENDMENT
JUNE 14, 2023

Exhibit A-1

		Amended 1 2023 Capital Budget	Capital Budget Amendment 2	Amended 2 2023 Capital Budget
	Funding Sources			
1	UTA Current Year Funding	$ 134,242,000	$ 4,036,000	$ 138,278,000
2	Grants	129,280,000	2,222,000	131,502,000
3	Local Partner Contributions	13,929,000	30,000	13,959,000
4	State Contribution	10,695,000	375,000	11,070,000
5	Leasing	41,851,000		41,851,000
6	**Total Funding Sources**	**329,997,000**	**6,663,000**	**336,660,000**
	Expense			
7	State of Good Repair	150,579,000	(854,000)	149,725,000
8	Mid Valley Connector	15,001,000	-	15,001,000
9	Ogden/Weber BRT	25,785,000	-	25,785,000
10	Depot District	12,001,000	-	12,001,000
13	Front Runner Forward	3,880,000	-	3,880,000
11	Warm Springs Sewer Relocation	1,496,000	(1,446,000)	50,000
12	TIGER Program of Projects	10,460,000	2,809,000	13,269,000
13	Workforce/Enterprise Asset Mgmt System	-	4,300,000	4,300,000
14	Operator Restrooms	-	1,854,000	1,854,000
15	Capital Contingency	3,496,000	-	3,496,000
16	Other Capital Projects	107,299,000	-	107,299,000
17	**Total Expense**	**$ 329,997,000**	**$ 6,663,000**	**$ 336,660,000**

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Exhibit A-2 Financial

(First Amendment of the Authority's 2023 Operating Budget)

UTAH TRANSIT AUTHORITY
2023 OPERATING BUDGET AMENDMENT
June 14, 2023

Exhibit A-2
Financial

		Final 2023 Budget	Bargaining Comp Adjustments	Admin Market Wage Adjustments	Other Adjustments	Amended 2023 Budget
	Revenue					
1	Sales Tax	$ 480,000,000				$ 480,000,000
2	Federal Preventive Maintenance	84,903,000				84,903,000
3	Passenger Revenue	35,850,000				35,850,000
4	Advertising	2,322,000				2,322,000
5	Investment Income	7,215,000				7,215,000
6	Other Revenues	11,634,000				11,634,000
7	Stimulus Funding	-				-
8	**Total Revenue**	**621,924,000**				**621,924,000**
	Operating Expense					
9	Board of Trustees	3,147,000	20,000	1,000	-	3,168,000
10	Executive Director	5,926,000	24,000	14,000	59,000	6,023,000
11	Communications	3,943,000	12,000	7,000	-	3,962,000
12	Operations	302,743,000	9,012,000	906,000	(63,000)	312,599,000
13	Finance	17,195,000	144,000	138,000	(16,000)	17,461,000
14	Service Development	8,754,000	61,000	39,000	(83,000)	8,771,000
15	Planning & Engagement	18,657,000	53,000	67,000	40,000	18,817,000
16	Enterprise Strategy	24,822,000	111,000	76,000	-	25,009,000
17	People Office	14,369,000	(1,702,000)	(243,000)	63,000	12,487,000
18	Non-Departmental	1,000,000	-			1,000,000
19	**Total Operations**	**400,557,000**	**7,735,000**	**1,005,000**	**-**	**409,297,000**
20	Debt Service	161,316,000				161,316,000
21	Contribution to Reserves	15,640,000				15,640,000
22	Transfer to Capital Budget	44,411,000				44,411,000
23	**Total 2023 Operating Budget**	**$ 621,924,000**	**$ 7,735,000**	**$ 1,005,000**	**$ -**	**$ 630,664,000**

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Exhibit A-2 FTE

(First Amendment of the Authority's 2023 Operating Budget)

UTAH TRANSIT AUTHORITY
2023 OPERATING BUDGET AMENDMENT
June 14, 2023

Exhibit A-2
FTE

		Final 2023 Budget FTE	New FTE Positions*	Existing FTE Position Moves	Amended 2023 Budget
	Executive				
1	Board of Trustees	14.4	1.0	-	15.4
2	Executive Director	30.5	-	1.5	32.0
3	Communications	15.0	-	-	15.0
4	Operations	2,335.2	-	(1.0)	2,334.2
5	Finance	123.5	1.0	(0.5)	124.0
6	Service Development	62.0	2.0	(2.0)	62.0
7	Planning & Engagement	80.2	-	1.0	81.2
8	Enterprise Strategy	122.0	-	-	122.0
9	People Office	84.0	1.0	1.0	86.0
10	Non-Departmental	-	-		-
11	**Total FTE**	**2,866.8**	**5.0**	**(0.0)**	**2,871.8**

***New FTE Positions approved by Board in prior Technical Budget Adjustments**

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO: Board of Trustees
THROUGH: Jay Fox, Executive Director
FROM: Kim Shanklin, Chief People Officer
PRESENTER(S): Kim Shanklin, Chief People Officer

TITLE:

R2023-06-03 - Resolution Modifying the Authority's Organizational Structure

AGENDA ITEM TYPE:
Resolution

RECOMMENDATION:
Approve Resolution R2023-06-03 to authorize adoption of a new Organizational Structure that renames the Service Development Office to the Capital Services Office.

BACKGROUND:
The Board of Trustees previously adopted Resolution R2022-03-10 which adopted the Organizational Structure. Since then, a decision has been made to rename the Service Development Office to Capital Services Office.

DISCUSSION:
The updated title of Capital Services better reflects the work of the agency office.

ALTERNATIVES:
Continue to call the agency office "Service Development"

FISCAL IMPACT:
None

ATTACHMENTS:
Resolution R2023-06-03

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R2023-06-03 - Resolution Modifying the Authority's Organizational Structure
RESOLUTION OF THE BOARD OF TRUSTEES OF THE UTAH TRANSIT AUTHORITY MODIFYING THE AUTHORITY'S ORGANIZATIONAL STRUCTURE

R2023-06-03 June 14, 2023

WHEREAS, the Utah Transit Authority (the "Authority") is a large public transit district organized under the laws of the State of Utah and was created to transact and exercise all of the powers provided for in the Utah Limited Purpose Local Government Entities - Special Districts Act and the Utah Public Transit District Act ("Act"); and

WHEREAS, the Board of Trustees ("Board") established an organizational structure to provide for the administration of the Authority on March 23, 2022, in Resolution R2022-03-10; and

WHEREAS, the Board desires to modify the organizational structure established by Resolution R2022-03-10 to provide for the effective and efficient administration of the Authority; and

WHEREAS, the Board desires to rename the Service Development Office to Capital Services to more accurately represent the Authority's strategic approach to capital construction and planning functions.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Utah Transit Authority:

1. That the Board hereby adopts the Organizational Structure establishing Chief Offices of: Operations, Planning and Engagement, Finance, People, Capital Services, Enterprise Strategy, and Communications as set forth in Exhibit A to provide for the administration of the Authority.

2. That Resolution R2022-03-10 is hereby rescinded and superseded in its entirety.

3. That the Board formally ratifies actions taken by the Authority, including those taken by the Executive Director, staff, and counsel that are necessary or appropriate to give effect to this Resolution.

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4. That the corporate seal be attached hereto.

Approved and adopted this 14th day of June 2023.

_____
Jeff Acerson, Acting Chair
Board of Trustees

ATTEST:

_____
Secretary of the Authority

(Corporate Seal)

Approved As To Form:

DocuSigned by:
Tim Merrill
56A03BC7C491482...
Legal Counsel

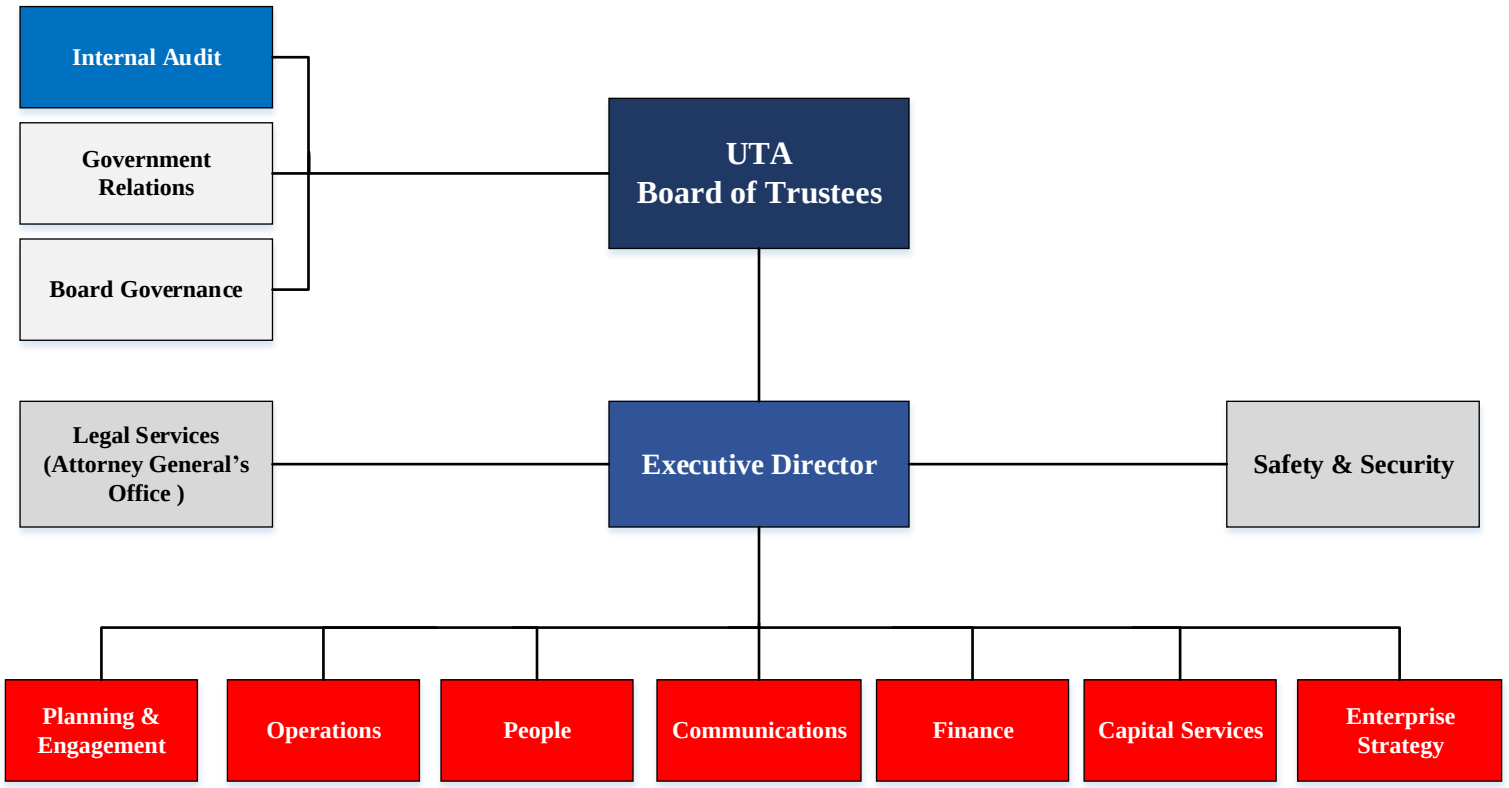
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Exhibit A

(Organizational Chart)

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Organizational Chart



669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Viola Miller, Chief Financial Officer
PRESENTER(S):	Viola Miller, Chief Financial Officer Tracy Young, Grants Director Gregg Larsen, Manager of Grant Services

TITLE:

R2023-06-04 - Resolution Authorizing the Executive Director to Execute Grants Agreements for Specified Projects

AGENDA ITEM TYPE:
Resolution

RECOMMENDATION:
Approve resolution R2023-06-04 authorizing grant execution by the Executive Director and/or his designee of grants shown in Exhibit A.

BACKGROUND:
Board Policy 2.2 - Contract Authority, Procurement and Grants requires agency staff to present discretionary grant awards of $200,000 or more to the Board of Trustees for approval at the time of award. Such awards must be approved in the agency budget prior to the Board's approval of the grant agreement.

DISCUSSION:
UTA has been selected to receive several grants from the Federal Transit Administration (FTA), Congestion Mitigation and Air Quality (CMAQ), Surface Transportation Block Grant (STBG) and Carbon Reduction Program (CRP) funds from the Metropolitan Planning Organizations (MPO) Wasatch Front Regional Council (WFRC) and Mountainland Association of Governments (MAG). These MPO funds are transferred from the Federal Highway Administration (FHWA) to FTA. A detail list of the grant awards is attached as Exhibit A to the resolution.

ALTERNATIVES:

If the grants are not executed in a timely manner, reimbursement of project costs may be delayed.

FISCAL IMPACT:
All Projects in Exhibit A, except the CMAQ funds for rideshare or vanpool, are accounted for in approved Operating or Capital Plan Budgets. CMAQ funds awarded for rideshare and vanpool were not accounted for in the respective FY2020-FY2022 budgets but will be programed for those same services in the 2023 Operating Budget previously approved by the Board.

ATTACHMENTS:
R2023-06-04 with Exhibit

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RESOLUTION OF THE BOARD OF TRUSTEES OF THE UTAH TRANSIT AUTHORITY AUTHORIZING THE EXECUTIVE DIRECTOR TO EXECUTE GRANT AGREEMENTS FOR SPECIFIED PROJECTS

R2023-06-04 June 14, 2023

WHEREAS, the Utah Transit Authority (the "Authority") is a large public transit district organized under the laws of the State of Utah and was created to transact and exercise all of the powers provided for in the Utah Limited Purpose Local Government Entities - Special Districts Act and the Utah Public Transit District Act; and

WHEREAS, the Authority has (i) obtained grants of assistance for the Projects shown in Exhibit A; (ii) secured (or contracted to secure) local match commitments from Stakeholders for the same Projects; and (iii) budgeted Authority funds for the same Projects; and

WHEREAS, UTAH CODE § 17B-2a-801 *et seq*. (the "Public Transit District Act") requires the Board of Trustees to review and approve any contract with a value of $200,000 or more; and

WHEREAS, Board Policy 2.2 Contract Authority, Procurement and Grants requires discretionary grant awards greater than $200,000 to be presented to the Board of Trustees (the "Board") for approval at the time of award, and after such award is approved in the Authority's budget; and

WHEREAS, the Board understands and recognizes that grant agreements for the Projects, shown in Exhibit A, are ready to be executed and qualify as contracts with a value exceeding $200,000; and

WHEREAS, the Board of Trustees understands and recognizes the time sensitive nature often associated with executing grant agreements and the project schedules the grants are supporting; and

WHEREAS, under Board resolution R2020-01-03 the Board gave the Executive Director authority to execute federal and other grant agreements on behalf of the Authority; and

WHEREAS, the Authority's Board of Trustees desires to provide the Executive Director with the authority to execute the grant agreements for the Projects in Exhibit A.

NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of the Utah Transit Authority:

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1. That the Board hereby approves the grant awards for the Projects identified in Exhibit A.

2. That the Board hereby authorizes the Executive Director to execute the grants for the projects listed in Exhibit A.

3. That the Board hereby ratifies any and all actions previously taken by the Authority's management, staff, and counsel to prepare the grants for the projects listed in Exhibit A.

4. That the corporate seal be attached hereto.

Approved and adopted this 14th day of June 2023

_____
Jeff Acerson, Acting Chair
Board of Trustees

ATTEST:

_____
Secretary of the Authority

(Corporate Seal)

Approved As To Form:

DocuSigned by:
Tim Merrill
56A03BC7C491482...
Legal Counsel

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Exhibit A

Grants Selected for Award as of 05/24/2023

Awarding Agency	Funding Program	Date Selected for Award	Project Description	Grant Funds Awarded	Required Local Match	Included in Capital Budget	Pre-Award Authority Y/N
FTA	FY2022 5338 TOD - Pilot program for TOD planning - Midvalley	11/17/2022	TOD planning study for the Midvalley BRT corridor	$ 360,000	$ 90,000	Y	Y
FTA	FY2023 FTA Rail Car Replacement	5/5/2023	20 replacement low floor light rail vehicles	$ 60,000,000	$ 60,000,000	Y	Y
FHWA transfer to FTA - for WFRC and MAG	FY2021 & FY2022 STBG & CRP	Various	WFRC Ogden-Weber State University BRT Construction (FY2021 STBG $1.5M Dee Event Center/FY2022 CRP $1.398M charging infrastructure)	$ 2,898,450	$ 210,474	Y	Y
	FY2020 & FY2021 CMAQ	Various	MAG Operating expenses for UVX BRT ($597,250 federal per year)	$ 1,194,500	$ 86,740	Y	Y
	FY2020, FY2021 & FY2022 CMAQ	Various	MAG UTA Rideshare and Van Pool Management ($189,257 per year)	$ 567,771	$ 41,229	Y	Y
	FY2020 & FY2021 CMAQ	Various	WFRC (SLC UZA) UTA Rideshare and Van Pool Management ($318,733 per year)	$ 637,466	$ 46,292	Y	Y
	FY2020 & FY2021 CMAQ	Various	WFRC (Ogden/Layton UZA) UTA Rideshare and Van Pool Management ($157,130 per year)	$ 314,260	$ 22,822	Y	Y
	FY2022 CMAQ	10/1/2020	MAG TIGER Provo Pedestrian Bridge Project	$ 800,000	$ 58,093	Y	Y
	FY2021 STBG	10/1/2020	WFRC (SLC UZA)TIGER 300 N 500 W Ped/Bike Overpass Project	$ 400,000	$ 29,047	Y	Y
	FY2021 STBG	10/1/2020	WFRC (SLC UZA) UTA On-Board Technology Upgrade	$ 500,000	$ 36,308	Y	Y
	FY2021 STBG	10/1/2020	WFRC (Ogden/Layton UZA) UTA On-Board Technology Upgrade	$ 200,000	$ 14,523	Y	Y
	FY2021 CMAQ	10/1/2020	WFRC (SLC UZA) UTA On-Route Electric Bus Infrastructure	$ 1,750,000	$ 127,079	Y	Y
Total				$ 69,622,447	$ 60,762,607		

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Mary DeLoretto, Chief Capital Services Officer
PRESENTER(S):	Dave Hancock, Director of Capital Development Travis Colledge, Project Manager III

TITLE:

Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pool A (AECOM Technical Services, Inc.)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Authorize the Executive Director to execute the bus system enhancement master task ordering agreement, and associated disbursements, with AECOM Technical Services, Inc. for one year with a not-to-exceed amount of $300,000 for design services pool A.

BACKGROUND:
In the 2023-2027 Five-year Capital Plan local funding has been allocated yearly for Bus Stops, End of Line Facilities, and Operator Restrooms. To develop an ongoing yearly program of projects for bus system improvements, Design Pools A, B, and C were developed. Maintaining a pool of pre-qualified consultants that may be solicited to complete tasks via task order will increase UTA's efficiency to deliver system enhancement projects yearly and utilize the programmed budget. Since requirements and budgets are established on an annual basis, this contract is for one year with four additional one-year options to be exercised contingent on the availability of funds.

DISCUSSION:
AECOM Technical Services, Inc. qualified for Pool A only

- Pool A-Bus Stops $300,000 for one year

No work is authorized, nor funds obligated until a task order is issued under this contract. Individual task orders totaling $200,000 or more will be brought to the board for approval. If the cost of all task orders issued under year one of this agreement exceeds $300,000 additional board approval will be required. Board approval will be obtained for the exercise of subsequent options which exceed $200,000 in value.

CONTRACT SUMMARY:

Contractor Name:	AECOM Technical Services, Inc.
Contract Number:	23-036851VW
Base Contract Effective Dates:	6/14/2023 to 6/14/2024
Extended Contract Dates:	N/A
Existing Contract Value:	N/A
Amendment Amount:	N/A
New/Total Contract Value:	$300,000 (Not to Exceed Amount for Pool A)
Procurement Method:	RFQu (Qualification)
Budget Authority:	2023 Capital Budget

ALTERNATIVES:

By not developing a pool of consultants for design services, UTA is compromised in its ability to deliver system enhancement projects. The alternative to executing contracts for design services in each pool category would require three RFQu's for design services every year and create additional work while possibly impacting completion dates. The current approach streamlines the process, allows for more efficient delivery, and helps ensure the project gets completed on time.

FISCAL IMPACT:

The 2023 Capital Budget includes funds for bus stop design services.

ATTACHMENTS:

1) Contract

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TASK ORDERING AGREEMENT FOR PROFESSIONAL SERVICES
UTA CONTRACT #23-036851 VW
Bus System Enhancements Design Services Pool A – Bus Stops

This Task Ordering Agreement (TOA) is entered into and made effective as of the date of last signature below (the "Effective Date") by and between UTAH TRANSIT AUTHORITY**,** a public transit district organized under the laws of the State of Utah ("UTA"), and AECOM Technical Services, Inc. ("Consultant").

RECITALS

WHEREAS, UTA desires to award a task ordering contract for professional consulting services per the Statement of Services contained at Exhibit A.

WHEREAS, on February 23, 2023, UTA issued Request for Qualifications Package Number 23-03685VW ("RFQu") encouraging interested parties to submit Statement of Qualifications (SOQ) to perform the services described in the RFQu.

WHEREAS, upon evaluation of the SOQs submitted in response to the RFQU, UTA selected Consultant as the preferred entity with whom to negotiate a contract to perform the Work.

WHEREAS, Consultant is qualified and willing to perform the Work as set forth in the Scope of Services.

AGREEMENT

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

1. SERVICES TO BE PROVIDED

a. Consultant shall perform all Tasks issued under this TOA as set forth in the Scope of Services (Exhibit A). Except for items (if any) which this Contract specifically states will be UTA-provided, Consultant shall furnish all the labor, material and incidentals necessary for the Work.
b. Consultant shall perform all Work under this TOA in a professional manner, using at least that standard of care, skill and judgment which can reasonably be expected from similarly situated professionals.
c. All Work shall conform to generally accepted standards in the transit industry. Consultant shall perform all Work in compliance with applicable laws, regulations, rules, ordinances, permit constraints and other legal requirements including, without limitation, those related to safety and environmental protection.
d. Consultant shall furnish only qualified personnel and materials necessary for the performance of the Work.
e. When performing Work on UTA property, Consultant shall comply with all UTA work site rules including, without limitation, those related to safety and environmental protection.

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f. Consultant is not guaranteed to receive any minimum number of task orders under this Agreement.

2. TASK ORDER ISSUANCE

a. The Consultant's shall perform services with respect to a wide variety of tasks, as described in Exhibit A at the request of UTA.
b. Each discrete item is referred to as a "Task." UTA and the Consultant will negotiate scope, schedule, and not-to-exceed (NTE) price for each Task, and document those and other terms, as necessary, in a written "Task Order" in substantively the same format as that attached as Exhibit A. The lump sum or not-to-exceed price for each Task shall be developed in accordance with Section 5 of this Contract and Exhibit C. Upon the execution of a Task Order, the Consultant shall perform services for that Task, including furnishing all the materials, appliances, tools, and labor of every kind required, and constructing and completing in the most substantial and skillful manner, the work identified in the scope of work attached as an Exhibit to that Task Order.
c. If UTA, in its sole discretion, decides not to issue additional task orders beyond those already issued, this agreement shall be cancelled at no additional cost (beyond task orders already issued) to either Party.
d. If UTA and the Consultant are unable to agree on the price, scope, or other terms of a Task Order, UTA shall retain the right to remove the Task from the scope of the on-call Consultant and procure the item outside this Contract.

3. PROGRESS OF WORK

a. Consultant shall prosecute the Work in a diligent and continuous manner and in accordance with all applicable notice to proceed, critical path schedule and guaranteed completion date requirements set forth in (or developed and agreed by the parties in accordance with) the Scope of Services.
b. Consultant shall conduct regular meetings to update UTA's Project Manager regarding the progress of the Work including, but not limited to, any unusual conditions or critical path schedule items that could affect or delay the Work. Such meetings shall be held at intervals mutually agreed to between the parties.
c. Consultant shall deliver monthly progress reports and provide all Contract submittals and other deliverables as specified in the Scope of Services.
d. Any drawing or other submittal reviews to be performed by UTA in accordance with the Scope of Services are for the sole benefit of UTA and shall not relieve Consultant of its responsibility to comply with the Contract requirements.
e. UTA will have the right to inspect, monitor and review any Work performed by Consultant hereunder as deemed necessary by UTA to verify that such Work conforms to the Contract requirements. Any such inspection, monitoring and review performed by UTA is for the sole benefit of UTA and shall not relieve Consultant of its responsibility to comply with the Contract requirements.
f. UTA shall have the right to reject Work which fails to conform to the requirements of this Contract. Upon receipt of notice of rejection from UTA, Consultant shall (at its sole

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expense and without entitlement to equitable schedule relief) promptly re-perform, replace or re-execute the Work to conform to the Contract requirements.

g. If Consultant fails to promptly remedy rejected Work as provided in Section 3 (f) UTA may (without limiting or waiving any rights or remedies it may have) perform necessary corrective action using other Consultants or UTA's own forces. Any costs reasonably incurred by UTA in such corrective action shall be chargeable to Consultant.

4. FINAL ACCEPTANCE OF TASKS

Each Task shall be entirely completed – including all punch list items, final cleanup, etc. – by the final acceptance date specified in the applicable Task Order. When, in the opinion of UTA's PM, the Consultant has fully performed the work under a Task Order, UTA's PM will notify the Consultant of final acceptance.

Final acceptance will be final and conclusive except for defects not readily ascertainable by UTA, actual or constructive fraud, gross mistakes amounting to fraud, or other errors which the Consultant knew or should have known about, as well as UTA's rights under any warranty or guarantee. Final acceptance may be revoked by UTA at any time prior to the issuance of the final payment by UTA or upon UTA's discovery of such defects, mistakes, fraud, or errors in the work even after final payment is issued.

5. PERIOD OF PERFORMANCE

The Period of Performance is for one year from the Effective Date. There are 4 additional one-year options to be exercised in UTA's discretion on an annual basis. This Contract shall remain in full force and effect until all Work is completed in accordance with this Contract, as reasonably determined by UTA. Consultant shall complete all Work for year one no later than June 30, 2024, or the completion of all tasks issued prior to that date. (This contract contains four – one-year additional option years which may be exercised in the sole discretion of UTA with 60 days advance written notice. The option period will be subject to the same terms and conditions which are contained in this TOA. This guaranteed completion date may be extended if Consultant and UTA mutually agree to an extension evidenced by a written Change Order. The rights and obligations of UTA and Consultant under this Contract shall at all times be subject to and conditioned upon the provisions of this Contract.)

6. COMPENSATION

Unless otherwise agreed in a Task Order, payment for the completion of Tasks will be in the form of a lump sum or not-to-exceed price negotiated between UTA and the Consultant and set forth in an executed Task Order. The not-to-exceed price will be negotiated through an open-book cost estimating process based on the pricing elements set forth in Exhibit C. The not-to-exceed price will be paid to the Consultant for satisfactory completion of all work identified in the applicable Task Order. Except as amended by UTA-issued change orders, the amount to be paid to the Consultant for all costs necessary to complete the work, whether stated or reasonably implied in the Task

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Order or other contract documents, will not exceed the lump sum or not-to-exceed price, including all labor, materials, equipment, supplies, small tools, incidental expenses, and any other direct or indirect associated costs'.

7. INCORPORATED DOCUMENTS

a. The following documents hereinafter listed in chronological order, are hereby incorporated into the Contract by reference and made a part hereof:
    1. The terms and conditions of this Task Ordering Agreement (including any exhibits and attachments hereto).
    2. UTA's RFQU including, without limitation, all attached or incorporated terms, conditions, federal clauses (as applicable), drawings, plans, specifications and standards and other descriptions of the Goods and Services;
    3. Consultant's Proposal including, without limitation, all federal certifications (as applicable);

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

8. ORDER OF PRECEDENCE

The Order of Precedence for this contract is as follows:

1. UTA Contract including all attachments.
2. UTA Terms and Conditions
3. UTA Solicitation Terms
4. Contractor's Bid or Proposal including proposed terms or conditions.

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

9. CHANGES

a. UTA's Project Manager or designee may, at any time, by written order designated or indicated to be a Change Order, direct changes in the Work including, but not limited to, changes:

    1. In the Scope of Services;
    2. In the method or manner of performance of the Work; or
    3. In the schedule or completion dates applicable to the Work.

    To the extent that any change in Work directed by UTA causes an actual and demonstrable impact to: (i) Consultant's cost of performing the work; or (ii) the time required for the Work, then (in either case) the Change Order shall include an equitable adjustment to this Contract to make Consultant whole with respect to the impacts of such change.

b. A change in the Work may only be directed by UTA through a written Change Order or (alternatively) UTA's expressed, written authorization directing Consultant to proceed pending negotiation of a Change Order. Any changes to this Contract undertaken by Consultant without such written authority shall be at Consultant's sole risk. Consultant shall not be entitled to rely on any other manner or method of direction.

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c. Consultant shall also be entitled to an equitable adjustment to address the actual and demonstrable impacts of "constructive" changes in the Work if: (i) subsequent to the Effective Date of this Contract, there is a material change with respect to any requirement set forth in this Contract; or (ii) other conditions exist or actions are taken by UTA which materially modify the magnitude, character or complexity of the Work from what should have been reasonably assumed by Consultant based on the information included in (or referenced by) this Contract. In order to be eligible for equitable relief for "constructive" changes in Work, Consultant must give UTA's Project Manager or designee written notice stating:

   A. The date, circumstances, and source of the change; and
   B. That Consultant regards the identified item as a change in Work giving rise to an adjustment in this Contract.

   Consultant must provide notice of a "constructive" change and assert its right to an equitable adjustment under this Section within ten (10) days after Consultant becomes aware (or reasonably should have become aware) of the facts and circumstances giving rise to the "constructive" change. Consultant's failure to provide timely written notice as provided above shall constitute a waiver of Consultant's rights with respect to such claim.

d. As soon as practicable, but in no event longer than 30 days after providing notice, Consultant must provide UTA with information and documentation reasonably demonstrating the actual cost and schedule impacts associated with any change in Work. Equitable adjustments will be made via Change Order. Any dispute regarding the Consultant's entitlement to an equitable adjustment (or the extent of any such equitable adjustment) shall be resolved in accordance with Article 21 of this Contract.

10. INVOICING PROCEDURES

a. Contractor shall invoice UTA after achievement of contractual milestones or delivery of all Goods and satisfactory performance of all Services or in accordance with an approved progress or periodic billing schedule. Contractor shall submit invoices to ap@rideuta.com for processing and payment. In order to timely process invoices, Contractor shall include the following information on each invoice:

   i. Contractor Name
   ii. Unique Invoice Number
   iii. PO Number
   iv. Invoice Date
   v. Detailed Description of Charges
   vi. Total Dollar Amount Due

b. UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Software or Services. Approval by UTA shall not be unreasonably withheld. UTA shall also have the right to offset (against payments) amounts reasonably reflecting the value of any claim which UTA has against Contractor under the Contract. Payment for all invoice amounts not specifically disapproved or offset by UTA shall be provided to Contractor within

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thirty (30) calendar days of invoice submittal to ap@rideuta.com . Invoices not submitted electronically will shall be paid thirty (30) calendar days from date of receipt by UTA's accounting department.

c. Invoices must include a unique invoice number, UTA's Purchase Order number, a description of the Good or Service provided, line-item pricing, total amount due, and must be submitted electronically to ap@rideuta.com.

11. OWNERSHIP OF DESIGNS, DRAWINGS, AND WORK PRODUCT

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

12. USE OF SUBCONSULTANTS

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

13. KEY PERSONNEL

Consultant shall provide the key personnel as indicated in Consultant's Proposal (or other applicable provisions of this Contract) and shall not change any of said key personnel without the express written consent of UTA. The following personnel are considered to be "key" under this clause:

Jarl Jacobson, PE, Point of Contact
Jodi Pearson, PE, Project Manager

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Michael Adams, PE, PTOE, Lead Designer,

If the key personnel listed above are changed without UTA's permission, the Consultant is in default of the contract and liable for default damages.

14. SUSPENSION OF WORK

a. UTA may, at any time, by written order to Consultant, require Consultant to suspend, delay, or interrupt all or any part of the Work called for by this Contract. Any such order shall be specifically identified as a "Suspension of Work Order" issued pursuant to this Article. Upon receipt of such an order, Consultant shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of further costs allocable to the Work covered by the order during the period of Work stoppage.
b. If a Suspension of Work Order issued under this Article is canceled, Consultant shall resume Work as mutually agreed to in writing by the parties hereto.
c. If a Suspension of Work Order is not canceled and the Work covered by such order is terminated for the convenience of UTA, reasonable costs incurred as a result of the Suspension of Work Order shall be considered in negotiating the termination settlement.
d. If the Suspension of Work causes an increase in Consultant's cost or time to perform the Work, UTA's Project Manager or designee shall make an equitable adjustment to compensate Consultant for the additional costs or time and modify this Contract by Change Order.

15. TERMINATION

a. **FOR CONVENIENCE**: UTA shall have the right to terminate the Contract at any time by providing written notice to Consultant. If the Contract is terminated for convenience, UTA shall pay Consultant: (i) in full for Goods delivered and Services fully performed prior to the effective date of termination; and (ii) an equitable amount to reflect costs incurred (including Contract close-out and subconsultant termination costs that cannot be reasonably mitigated) and profit on work-in-progress as of to the effective date of the termination notice. UTA shall not be responsible for anticipated profits based on the terminated portion of the Contract. Consultant shall promptly submit a termination claim to UTA. If Consultant has any property in its possession belonging to UTA, Consultant will account for the same, and dispose of it in the manner UTA directs.

b. **FOR DEFAULT:** If Consultant (a) becomes insolvent; (b) files a petition under any chapter of the bankruptcy laws or is the subject of an involuntary petition; (c) makes a general assignment for the benefit of its creditors; (d) has a receiver appointed; (e) should fail to make prompt payment to any subconsultants or suppliers; or (f) fails to comply with any of its material obligations under the Contract, UTA may, in its discretion, after first giving Consultant seven (7) days written notice to cure such default:
    1. Terminate the Contract (in whole or in part) for default and obtain the Goods and Services using other Consultants or UTA's own forces, in which event

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Consultant shall be liable for all incremental costs so incurred by UTA;

2. Pursue other remedies available under the Contract (regardless of whether the termination remedy is invoked); and/or
3. Except to the extent limited by the Contract, pursue other remedies available at law.

c. **CONSULTANT'S POST TERMINATION OBLIGATIONS:**

Upon receipt of a termination notice as provided above, Consultant shall (i) immediately discontinue all work affected (unless the notice directs otherwise); and (ii) deliver to UTA all data, drawings and other deliverables, whether completed or in process. Consultant shall also remit a final invoice for all services performed and expenses incurred in full accordance with the terms and conditions of the Contract up to the effective date of termination. UTA shall calculate termination damages payable under the Contract, shall offset such damages against Consultant's final invoice, and shall invoice Consultant for any additional amounts payable by Consultant (to the extent termination damages exceed the invoice). All rights and remedies provided in this Article are cumulative and not exclusive. If UTA terminates the Contract for any reason, Consultant shall remain available, for a period not exceeding 90 days, to UTA to respond to any questions or concerns that UTA may have regarding the Goods and Services furnished by Consultant prior to termination.

d. **TERMINATION OF TASKS OR TOA**

UTA's termination rights under this Article shall apply, in UTA's discretion, to either an individual task order or the entire TOA. Where the TOA is terminated for convenience, the Consultant shall be entitled to payment in full for all tasks satisfactorily completed prior to the termination date. Where a task is terminated prior to acceptance by UTA, Consultant shall be entitled to its actual allowable and allocable costs expended to the date of termination for the terminated task.

16. INFORMATION, RECORDS and REPORTS; AUDIT RIGHTS

Consultant shall retain all books, papers, documents, accounting records and other evidence to support any cost-based billings allowable under Exhibit B (or any other provision of this Contract). Such records shall include, without limitation, time sheets and other cost documentation related to the performance of labor services, as well as subcontracts, purchase orders, other contract documents, invoices, receipts or other documentation supporting non-labor costs. Consultant shall also retain other books and records related to the performance, quality or management of this Contract and/or Consultant's compliance with this Contract. Records shall be retained by Consultant for a period of at least six (6) years after completion of the Work, or until any audit initiated within that six-year period has been completed (whichever is later). During this six-year period, such records shall be made available at all reasonable times for audit and inspection by UTA and other authorized auditing parties including, but not limited to, the Federal Transit Administration. Copies of requested records shall be furnished to UTA or designated audit parties upon request. Consultant agrees that it shall flow-down (as a matter of written contract) these

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records requirements to all subconsultants utilized in the performance of the Work at any tier.

17. FINDINGS CONFIDENTIAL

Any documents, reports, information, or other data and materials delivered or made available to or prepared or assembled by Contractor or subcontractor under this Contract are considered confidential and shall not be made available to any person, organization, or entity by Contractor without consent in writing from UTA. If confidential information is released to any third party without UTA's written consent as described above, contractor shall notify UTA of the data breach within 10 days and provide its plan for immediate mitigation of the breach for review and approval by UTA.

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

18. PUBLIC INFORMATION.

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

19. GENERAL INDEMNIFICATION

Consultant shall indemnify, hold harmless and defend UTA, its officers, trustees, agents, and employees (hereinafter collectively referred to as "Indemnitees") from and against all liabilities, claims, actions, damages, losses, and expenses including without limitation reasonable attorneys' fees and costs (hereinafter referred to collectively as "claims") related to bodily injury, including death, or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the acts or omissions of Consultant or any of its owners, officers, directors, agents, employees or subconsultants. This indemnity includes any claim or amount arising out of the failure of such Consultant to conform to federal, state, and local laws and regulations. If an employee of Consultant, a subconsultant, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable brings a claim against UTA or another Indemnitee, Consultant's indemnity obligation set forth above will not be limited by any limitation on the amount of damages, compensation or benefits payable under any employee benefit acts, including workers' compensation or disability acts. The indemnity obligations of

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Consultant shall not apply to the extent that claims arise out of the sole negligence of UTA or the Indemnitees.

20. INSURANCE REQUIREMENTS

Standard Insurance Requirements

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

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

1. Commercial General Liability – Occurrence Form

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

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

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

2. Automobile Liability

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

   Combined Single Limit (CSL) $2,000,000

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

3. Worker's Compensation and Employers' Liability

   Workers' Compensation Statutory

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Employers' Liability

Each Accident	$100,000
Disease – Each Employee	$100,000
Disease – Policy Limit	$500,000

a. Policy shall contain a waiver of subrogation against the Utah Transit Authority.
b. This requirement shall not apply when a contractor or subcontractor is exempt under UCA 34A-2-103, AND when such contractor or subcontractor executes the appropriate waiver form.

4. Professional Liability (Errors and Omissions Liability)
The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this contract.

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

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

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

1. Nothing contained in the insurance requirements of this Agreement, or any Contract Documents is to be construed as limiting the liability of the Consultant or the liability of any subconsultant of any tier, or either of their respective insurance carriers. Insurance limits indicated in this agreement are minimum limits. Larger limits may be indicated after the consultant's assessment of the exposure for this contract; for their own protection and the protection of UTA.

2. The Contractor's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

C. NOTICE OF CANCELLATION: Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days prior written notice has been given to the Utah Transit Authority, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to (Utah Transit Authority agency Representative's Name & Address).

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D. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the State and with an "A.M. Best" rating of not less than A-VII. The Utah Transit Authority in no way warrants that the above-required minimum insurer rating is sufficient to protect the Contractor from potential insurer insolvency.

E. VERIFICATION OF COVERAGE: Contractor shall furnish the Utah Transit Authority with certificates of insurance (on standard ACORD form) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

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

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

F. SUBCONTRACTORS: Contractors' certificate(s) shall include all subcontractors as additional insureds under its policies or subcontractors shall maintain separate insurance as determined by the Contractor, however, subcontractor's limits of liability shall not be less than $1,000,000 per occurrence / $2,000,000 aggregate. Sub-contractors maintaining separate insurance shall name Utah Transit Authority as an additional insured on their policy. Blanket additional insured endorsements are not acceptable from sub-contractors. Utah Transit Authority must be scheduled as an additional insured on any sub-contractor policies.

G. APPROVAL: Any modification or variation from the insurance requirements in this Contract shall be made by Claims and Insurance Department or the UTA Legal Services, whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.

21. INTELLECTUAL PROPERTY INDEMNIFICATION

a. Consultant shall protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all Claims of any kind or nature whatsoever on account of infringement relating to Consultant's performance under this Contract. If

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notified promptly in writing and given authority, information and assistance, Consultant shall defend, or may settle at its expense, any suit or proceeding against UTA so far as based on a claimed infringement and Consultant shall pay all damages and costs awarded therein against UTA due to such breach. In case any portion of the Work is in such suit held to constitute such an infringement or an injunction is filed that interferes with UTA's rights under this Contract, Consultant shall, at its expense and through mutual agreement between the UTA and Consultant, either procure for UTA any necessary intellectual property rights, or modify Consultant's services or deliverables such that the claimed infringement is eliminated.

b. Consultant shall: (i) protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all liens or Claims made or filed against UTA or upon the Work or the property on which the Work is located on account of any labor performed or labor, services, and equipment furnished by subconsultants of any tier; and (ii) keep the Work and said property free and clear of all liens or claims arising from the performance of any Work covered by this Contract by Consultant or its subconsultants of any tier. If any lien arising out of this Contract is filed, before or after Work is completed, Consultant, within ten (10) calendar days after receiving from UTA written notice of such lien, shall obtain a release of or otherwise satisfy such lien. If Consultant fails to do so, UTA may take such steps and make such expenditures as in its discretion it deems advisable to obtain a release of or otherwise satisfy any such lien or liens, and Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA in obtaining such release or satisfaction. If any non-payment claim is made directly against UTA arising out of non-payment to any subconsultant, Consultant shall assume the defense of such claim within ten (10) calendar days after receiving from UTA written notice of such claim. If Consultant fails to do so, Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA to satisfy such claim.

22. INDEPENDENT CONTRACTOR

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

23. PROHIBITED INTEREST

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

24. CLAIMS/DISPUTE RESOLUTION

a. "Claim" means any disputes between UTA and the Consultant arising out of or relating to the Contract Documents including any disputed claims for Contract adjustments that cannot be resolved in accordance with the Change Order negotiation process set forth in Article 6. Claims must be made by written notice. The responsibility to substantiate claims rests with the party making the claim.

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

c. The parties shall attempt to informally resolve all claims, counterclaims and other disputes through the escalation process described below. No party may bring a legal action to enforce any term of this Contract without first having exhausted such process.

d. The time schedule for escalation of disputes, including disputed requests for change order, shall be as follows:

Level of Authority	Time Limit
UTA's Project Manager/Consultant's Project Manager Jarl Jacobson	Five Calendar Days
UTA's Director of Capital Development/Consultant's Loretta Markham, Greater West Transit and Rail Lead, SVP	Five Calendar Days
UTA's Chief Service Development Officer/Consultant's Tyler Besch, VO Transit-Rail Division Manager	Five Calendar Days

Unless otherwise directed by UTA's Project Manager, Consultant shall diligently continue performance under this Contract while matters in dispute are being resolved.

If the dispute cannot be resolved informally in accordance with the escalation procedures set forth above, then either party may commence formal mediation under the Juris Arbitration and Mediation (JAMS) process using a mutually agreed upon JAMS mediator. If resolution does not occur through Mediation, then legal action may be commenced in accordance the venue and governing law provisions of this contract.

25. GOVERNING LAW

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

26. ASSIGNMENT OF CONTRACT

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

27. NONWAIVER

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

28. NOTICES OR DEMANDS

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

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

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

If to AECOM:
ATTN: Jarl Jacobson PE
756 East Winchester Street, Suite 400A
Salt Lake City, UT 84107

c. Any such notice shall be deemed to have been given, and shall be effective, on delivery to the notice address then applicable for the party to which the notice is directed; provided, however, that refusal to accept delivery of a notice or the inability to deliver a notice because of an address change which was not properly communicated shall not defeat or delay the giving of a notice. Either party may change the address at which such party desires to receive written notice by providing written notice of such change to any other party.

d. Notwithstanding Section 23.1, the parties may, through mutual agreement, develop alternative communication protocols to address change notices, requests for information and similar categories of communications. Communications provided pursuant to such agreed means shall be recognized as valid notices under this Contract.

29. CONTRACT ADMINISTRATOR

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

30. INSURANCE COVEREAGE REQUIREMENTS FOR CONSULTANT EMPLOYEES ON DESIGN AND CONSTRUCTION CONTRACTS

a. The following requirements apply to design and construction contracts to the extent that: (i) the initial value of this Contract is equal to or in excess of $2 million; (ii) this Contract, with subsequent modifications, is reasonably anticipated to equal or exceed $2 million; (iii) Consultant has a subcontract at any tier that involves a sub-consultant that has an initial subcontract equal to or in excess of $1 million; or (iv) any subcontract, with subsequent modifications, is reasonably anticipated to equal or exceed $1 million:

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b. Consultant shall, prior to the effective date of this Contract, demonstrate to UTA that Consultant has and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the Consultant's employees and the employee's dependents during the duration of this Contract.

c. Consultant shall also demonstrate to UTA that subconsultants meeting the above-described subcontract value threshold have and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5for the subconsultant's employees and the employee's dependents during the duration of the subcontract.

31. COSTS AND ATTORNEYS FEES

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

32. NO THIRD-PARTY BENEFICIARY

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

33. FORCE MAJEURE

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

34. UTAH ANTI-BOYCOTT OF ISRAEL ACT

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

35. SEVERABILITY

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

36. ENTIRE AGREEMENT

This Contract shall constitute the entire agreement and understanding of the parties with respect to the subject matter hereof, and shall supersede all offers, negotiations and other agreements with respect thereto. The terms of the Contract supersede any additional or conflicting terms or provisions that may be preprinted on Vendor's work plans, cost estimate forms, receiving tickets, invoices, or any other related standard forms or documents of Vendor that may subsequently be used to implement, record, or invoice Goods and/or Services hereunder from time to time, even if such standard forms or

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documents have been signed or initialed by a representative of UTA. The terms of the Contract prevail in any dispute between the terms of the Contract and the terms printed on any such standard forms or documents, and such standard forms or documents will not be considered written amendments of the Contract.

37. AMENDMENTS

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

38. COUNTERPARTS

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

39. SURVIVAL

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

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IN WITNESS WHEREOF, the parties have made and executed this Contract as of the day, month and year of the last signature contained below.

UTAH TRANSIT AUTHORITY:

By: Date:
Jay Fox
Executive Director

By: Date:
Mary DeLoretto
Chief Service Development Officer

Approved as to Content and Form

By: DocuSigned by: Mike Bell 70E33A415BA44F6... Date: 5/24/2023
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:
Travis Colledge,
UTA Project Manager

AECOM:

By: DocuSigned by: Loretta Markham B8B92CACB9904B9... Date: 5/24/2023
Loretta Markham
Greater West Transit and Rail Lead, AVP
Fed ID# 95-2661922

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EXHIBIT A – SCOPE OF SERVICES

All individual Task Orders that are issued to the Consultant will contain their own specific Statement of work. Each Individual Task Order will include a scope of services specific to the needed services which is within the scope of the statement of services contained in the RFQU.

Task Orders shall be issued using the sample format contained at Exhibit C.

All individual Task Orders that are issued to the Consultant will contain their own specific Statement of work, period of performance and not-to-exceed pricing based on the negotiated rates listed in Exhibit B. Each Individual Task Order will include a scope of services specific to the needed services which is within the scope of the statement of services contained in the RFQU.

UTA is awarding Master Tasks Ordering Agreements (MTOA) to AECOM Technical Services, Inc., for the following Pools:
Pool A – Bus Stops

The Period of Performance for the Master Tasks Ordering Agreement (MTOA) shall be one year until June 30, 2024. with two – one-year options. Task Orders will be issued as needed.
Overall management of the MTOA and Task Orders will be under the direction of UTA through the Capital Development office. Work by the selected Contractor shall be in conformance with the pricing, schedule, staffing plan, and budget included in the MTOA and the individual Task Orders.

The Contractor is expected to perform and fulfill the following activities and requirements for Utah Transit Authority.

The Contractor will work closely with the UTA Project Manager, UTA's Program Manager, UTA engineering and operations staff, and requisite project stakeholders to accomplish the as-needed design services as listed in the Scope of Work and in accordance with UTA's procedures.

Pool A - Bus Stop Designs - UTA has guidelines for bus stop designs from Level 1 8'x8' pad up to Level VI 40' x 15' footprint. Bus Stop Levels I-VI are in Appendix VI Bus Stops Design by Level. Right-of-way services and acquisition maybe required to design bus stops. Fiber for digital real-time signage is optional any maybe added depending on location. Follow the most recent UTA Design Criteria for all civil elements.

The Designer shall provide the necessary professional engineers; right-of-way acquisition agents; surveyors; and other staff with professional and technical skills, materials, supplies, and services other than those specifically provided by UTA, required to

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successfully complete this Scope of Work to meet the Project Goals.

Project Goals are:

1. Prepare high quality design packages for bus system enhancement projects to a level ready to be issued for construction.
2. Coordinate stakeholder engagement and obtain necessary plan reviews and approvals required for project permitting. Include designer dispositions showing all comments are resolved including stakeholder approval.
3. Provide the issue for construction package with a cost estimate and summary of stakeholder comments.
4. Provide design consultant support services through the completion of construction projects.

The actual services to be provided shall be described in specific Task Orders. Major work elements anticipated under this MOTA include the following items:

1. Project Management, Administration, and Coordination
2. Design/Engineering Services
3. Agency Coordination Support
4. Public Outreach Support (as needed)

Each Task Order will contain an appropriate schedule showing the completion of the scope of work. The schedule will contain detail consistent with the complexity of the project.

Project Management, Administration, and Coordination

The Designer shall be capable of and prepared to provide project management, administration, and coordination services as necessary to gather and direct a qualified team, conduct meetings, track and resolve issues, and conduct other supervisory services commensurate with the given task order.

Design/Engineering Services

The Designer shall prepare design in accordance with UTA standards and specifications and appropriate jurisdictional roadway design standards unless design waivers and deviations are approved. The Designer will be responsible for development of final engineering level engineering drawings. This engineering development could start with preliminary designs at a level of 10% to 30% depending on the Task Order.

The Program Manager Services Contractor (PMSC) will assist UTA with oversight of the engineering process.

It is anticipated that design will include but is not limited to:

- Civil and site development design
- Structural design including retaining walls.

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- Geotechnical analysis
- Drainage design
- Utilities
- Electrical Engineering
- Architectural design
- Survey and mapping
- Right-of-way including acquisition (as needed)
- Earthwork and Grading
- Bus Stop Design
- Maintenance of Traffic
- Quantities and estimating

In addition to anticipated design disciplines listed above, the Designer shall consider and anticipate including the following elements in the completion of design:

- Schedule
- Quality Control
- Design Criteria
- Specifications
- Environmental Permits
- Value Engineering
- Design Services During Construction
- As-Built Drawings

Public Outreach and Agency Coordination Support

Public outreach appropriate for the level of design services will be managed by the UTA Public Community Engagement Office and coordinated with the PMSC.

The Designer(s) shall be prepared to support UTA and the PMSC with public outreach and agency coordination.

The Designer(s) will coordinate with UTA to provide timely and accurate project information.

The Designer(s) shall support UTA and the PMSC with coordination with requisite stakeholders. The Designer(s) shall participate in stakeholder coordination meetings, as needed per Task Order. Project stakeholders may include representatives from the Utah Department of Transportation (UDOT), municipalities, and other agencies to be determined.

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EXHIBIT B – PRICING

23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet

No	Firm	Prime	Sub	Last Name	First Name	Discipline/Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
Proposed										
1	AECOM	X		Jacobson	Jarl	Project Manager	$ 93.58	147.73%	11%	$ 257.33
2	AECOM	X		Pearson	Jodi	Deputy Project Manager	$ 89.90	147.73%	11%	$ 247.21
3	AECOM	X		Yung	David	Project Engineer	$ 84.93	147.73%	11%	$ 233.54
4	AECOM	X		Shea	Scott	Project Engineer	$ 66.56	147.73%	11%	$ 183.03
5	AECOM	X		Acosta	Mikayla	EIT	$ 46.77	147.73%	11%	$ 128.61
6	AECOM	X		Adams	Michael	Project Engineer	$ 82.30	147.73%	11%	$ 226.31
7	AECOM	X		Azouggagh	Najib	Project Engineer	$ 56.58	147.73%	11%	$ 155.58
8	AECOM	X		Barriga	Tomas	EIT	$ 41.87	147.73%	11%	$ 115.13
9	AECOM	X		Dillon	Matt	EIT	$ 40.87	147.73%	11%	$ 112.38
10	AECOM	X		Davis	Matt	EIT	$ 38.19	147.73%	11%	$ 105.01
11	AECOM	X		Brown	Casey	QA/QC	$ 92.74	147.73%	11%	$ 255.02
12	AECOM	X		Brown	Sherry	Project Controls	$ 72.54	147.73%	11%	$ 199.47
13	AECOM	X		Green	Jason	Env Planner/PI	$ 72.08	147.73%	11%	$ 198.21
14	AECOM	X		Bauer-Fellows	Angie	Env Planner/PI	$ 75.56	147.73%	11%	$ 207.78
15	AECOM	X		Braley	Kordel	QA/QC	$ 90.38	147.73%	11%	$ 248.53
16	AECOM	X		Aswandi	Imanuel	Project Engineer	$ 83.32	147.73%	11%	$ 229.11
17	AECOM	X		Chamberlain	Bryan	Construction Engineering	$ 96.02	147.73%	11%	$ 264.04
18	AECOM	X		Kennedy	Chuck	Drainage Engineer	$ 75.60	147.73%	11%	$ 207.89

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19	AECOM	X		Stoen	Anne	Drainage Engineer	$ 78.11	147.73%	11%	$ 214.79
20	AECOM	X		Burton	AJ	Drainage Engineer	$ 51.03	147.73%	11%	$ 140.32
21	AECOM	X		Helm	Lindsay	EIT	$ 39.27	147.73%	11%	$ 107.98
22	AECOM	X		Hill	Adam	EIT	$ 37.11	147.73%	11%	$ 102.05
23	AECOM	X		Larivey	Grace	Project Controls	$ 49.38	147.73%	11%	$ 135.79
24	AECOM	X		Moore	Mark	Project Controls	$ 52.82	147.73%	11%	$ 145.24
25	AECOM	X		Kollbaum	James	Project Engineer	$ 63.08	147.73%	11%	$ 173.46
26	AECOM	X		Mather	Stoney	Geotechnical Engineer	$ 77.44	147.73%	11%	$ 212.94
27	AECOM	X		Shwartz	Michael	GIS	$ 38.27	147.73%	11%	$ 105.23
28	AECOM	X		Hansen	Eric	Structural Engineer	$ 66.29	147.73%	11%	$ 182.28
29	AECOM	X		Xu	Wenjing	Structural Engineer	$ 60.81	147.73%	11%	$ 167.22
30	AECOM	X		Martinez	Ashton	EIT	$ 40.83	147.73%	11%	$ 112.27
31	AECOM	X		Lavery	Allison	Project Engineer	$ 45.20	147.73%	11%	$ 124.29
32	AECOM	X		Quillon	Lindsey	EIT	$ 42.93	147.73%	11%	$ 118.05
33	AECOM	X		Reischel	Sean	Project Engineer	$ 46.77	147.73%	11%	$ 128.61
34	AECOM	X		Spinks	Katie	Project Engineer	$ 49.67	147.73%	11%	$ 136.58
35	AECOM	X		Mikita	Tyler	EIT	$ 46.28	147.73%	11%	$ 127.26
36	AECOM	X		Mareno	Antony	Project Engineer	$ 67.92	147.73%	11%	$ 186.77
37	Meridian Engineering		X	Nadeau	Michael	Survey Manager / PLS, CFeds PM	$ 70.00	172.72%	11%	$ 211.90
38	Meridian Engineering		X	Baron	Tyler	Right of Way Manager / PLS	$ 68.00	172.72%	11%	$ 205.85
39	Meridian Engineering		X	Daley	Travis	Right of Way Design / PLS	$ 55.00	172.72%	11%	$ 166.50
40	Meridian Engineering		X	Jensen	Travis	Right of Way Design / PLS	$ 57.00	172.72%	11%	$ 172.55
41	Meridian Engineering		X	Evans	Tammy	Right of Way Acquisition / Real Estate Agent	$ 52.00	172.72%	11%	$ 157.41

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42	Meridian Engineering		X	Mortensen	Brad	QA/QC Manager / PLS	$ 56.00	172.72%	11%	$ 169.52
43	Meridian Engineering		X	Marble	Freeman	Surveyor Crew Chief / sUAV	$ 42.00	172.72%	11%	$ 127.14
44	Meridian Engineering		X	Denham	Gus	ROW Drafter	$ 42.00	172.72%	11%	$ 127.14
45	Meridian Engineering		X	Hickman	Robert	ROW Title Specialist/Drafting Support	$ 39.00	172.72%	11%	$ 118.06
46	Meridian Engineering		X	Maumalanga	Jeff	ROW Drafter	$ 31.00	172.72%	11%	$ 93.84
47	Meridian Engineering		X	Bippes	Geoff	Surveyor Crew Chief	$ 30.00	172.72%	11%	$ 90.82
48	Meridian Engineering		X	Butler	Heather	Surveyor Crew Chief / sUAV	$ 35.00	172.72%	11%	$ 105.95
49	Meridian Engineering		X	Boehmer	Brian	LiDAR Surveyor	$ 39.00	172.72%	11%	$ 118.06
50	Meridian Engineering		X	Williams	Travis	Survey / CADD Design	$ 38.00	172.72%	11%	$ 115.03
51	Meridian Engineering		X	Sykes	Miles	Surveyor	$ 33.00	172.72%	11%	$ 99.90
52	Meridian Engineering		X	Holtz	Sierra	Survey / CADD Design	$ 27.00	172.72%	11%	$ 81.73
53	Meridian Engineering		X	Neu	Timothy	Surveyor	$ 22.00	172.72%	11%	$ 66.60
54	Meridian Engineering		X	Atkinson	Levi	Surveyor	$ 20.00	172.72%	11%	$ 60.54
55	Meridian Engineering		X	Oborn	Brandon	Surveyor	$ 22.00	172.72%	11%	$ 66.60
56	Meridian Engineering		X	Fenn	Regan	ROW Drafting Support	$ 25.00	172.72%	11%	$ 75.68

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57	Meridian Engineering		X	Hughes	Kim	Survey Technician	$ 24.00	172.72%	11%	$ 72.65
58	Meridian Engineering		X	Wright	Zachary	Survey Technician	$ 22.00	172.72%	11%	$ 66.60

Signature:
Title: Tyler Besch, Vice President



Date: 4-3-2023

CONTRACT PRICING STRUCTURE

For the avoidance of doubt, this contract is a firm fixed price labor hour contract. The labor rates for the various categories of labor to be used under this contract are loaded with overhead, profit and G&A and are fixed for the life of the contract subject to a yearly 3% escalation factor July of each calendar year.

This contract has a total Not-To-Exceed amount of $300,000 for year one. Additional NTE amounts shall be established for each option year at the time of exercise.

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EXHIBIT C – TASK ORDER TEMPLATE

TASK ORDER NO. _____

TASK ORDER NAME: _____

This is Task Order No. _____ to Contract No. _____ entered into by and between Utah Transit Authority (UTA) and _____, (Contractor) as of _____, _____, 202_

This Task Order is part of the above-described Contract and is governed by the terms thereof.
The purpose of this Task Order is to specifically define the scope, schedule, lump sum price, or not-to-exceed and other terms applicable to the work identified herein.
UTA and Contractor hereby agree as follows:

1.0 SCOPE OF SERVICES

The scope of work for this Task Order _____ is hereby attached and incorporated into this Task Order.

2.0 SCHEDULE

The Substantial Completion Date for this Task is _____, ____, 202_. The Final Acceptance Date for this Task is _____, _____, 202_.

3.0 PRICE

The not-to-exceed (select one) price for this task order is _____.
Invoices will be billed on monthly, milestone or task completion basis (select one).

4.0 APPLICABILITY OF FEDERAL FORMS AND CLAUSES

This Task Order does ☐ does not☐ [Check Applicable] include federal assistance funds which requires the application of the Federal Forms and Clauses appended as Exhibits D and E on the Contract.

5.0 IF THIS TASK ORDER IS FEDERAL FUNDS, THE DBE GOAL IS _____%.

IN WITNESS WHEREOF, this Task Order has been executed by UTA and the Contractor or its appointed representative.

Utah Transit Authority		AECOM Technical Services, Inc.	
By:	Date:	By:	Date:
By:	Date:	By:	Date:

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Approved as to Content and Form

By: Date:
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:

UTA Project Manager

ATTACHMENT 1 – TASK ORDER STATEMENT OF WORK OR SERVICES

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Mary DeLoretto, Chief Capital Services Officer
PRESENTER(S):	Dave Hancock, Director of Capital Development Travis Colledge, Project Manager III

TITLE:

Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pools A, B, C (Focus Engineering & Surveying, LLC.)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Authorize the Executive Director to execute the bus system enhancement master task ordering agreement, and associated disbursements, with Focus Engineering & Surveying, LLC. for one year with a not-to-exceed amount of $500,000. .

BACKGROUND:
In the 2023-2027 Five-year Capital Plan local funding has been allocated yearly for Bus Stops, End of Line Facilities, and Operator Restrooms. To develop an ongoing yearly program of projects for bus system improvements, Design Pools A, B, and C were developed. Maintaining a pool of pre-qualified consultants that may be solicited to complete tasks via task order will increase UTA's efficiency to deliver system enhancement projects yearly and utilize the programmed budget. Since requirements and budget are established on an annual basis, this contract is for one year with 4 additional one-year options to be exercised annually contingent on the availability of funding

DISCUSSION:
If approved, Focus Engineering & Surveying, LLC. is qualified for design pools A, B, and C:

- Pool A-Bus Stops $300,000 for one year
- Pool B-End of Line (EOL) Facilities $100,000 for one year

- Pool C-Operator Restrooms $100,000 for one year

No work is authorized, nor funds obligated until a task order is issued under this contract. Individual task orders totaling $200,000 or more will be brought to the board for approval. If the cost of all task orders issued under this agreement exceeds $500,000 additional board approval will be required. Board approval will be obtained prior to the exercise of subsequent options provided their value exceeds $200,000.

CONTRACT SUMMARY:

Contractor Name:	Focus Engineering & Surveying, LLC.
Contract Number:	23-036852 VW
Base Contract Effective Dates:	6/14/2023 to 6/14/2024
Extended Contract Dates:	N/A
Existing Contract Value:	N/A
Amendment Amount:	N/A
New/Total Contract Value:	$500,000 (Not to Exceed Amount for pools A, B, & C)
Procurement Method:	RFQu (Qualification)
Budget Authority:	2023 Capital Budget

ALTERNATIVES:

By not developing a pool of consultants for design services, UTA is compromised in its ability to deliver system enhancement projects. The alternative to executing contracts for design services in each pool category would require three RFQu's for design services every year and create additional work while possibly impacting completion dates. The current approach streamlines the process, allows for more efficient delivery, and helps ensure the project gets completed on time.

FISCAL IMPACT:

The 2023 Capital Budget includes funds for these bus system enhancement design services.

ATTACHMENTS:

1) Contract

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TASK ORDERING AGREEMENT FOR PROFESSIONAL SERVICES
UTA CONTRACT #23-036852 VW
Bus System Enhancements Design Services Pools
A – Bus Stops
B – End of Line facilities
C – Operator Restrooms

This Task Ordering Agreement (TOA) is entered into and made effective as of the date of last signature below (the "Effective Date") by and between UTAH TRANSIT AUTHORITY**,** a public transit district organized under the laws of the State of Utah ("UTA"), and Focus Engineering & Surveying, LLC. ("Consultant").

RECITALS

WHEREAS, UTA desires to award a task ordering contract for professional consulting services per the Statement of Services contained at Exhibit A.

WHEREAS, on February 23, 2023, UTA issued Request for Qualifications Package Number 23-03685VW ("RFQu") encouraging interested parties to submit Statement of Qualifications (SOQ) to perform the services described in the RFQu.

WHEREAS, upon evaluation of the SOQs submitted in response to the RFQU, UTA selected Consultant as the preferred entity with whom to negotiate a contract to perform the Work.

WHEREAS, Consultant is qualified and willing to perform the Work as set forth in the Scope of Services.

AGREEMENT

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

1. SERVICES TO BE PROVIDED

a. Consultant shall perform all Tasks issued under this TOA as set forth in the Scope of Services (Exhibit A). Except for items (if any) which this Contract specifically states will be UTA-provided, Consultant shall furnish all the labor, material and incidentals necessary for the Work.
b. Consultant shall perform all Work under this TOA in a professional manner, using at least that standard of care, skill and judgment which can reasonably be expected from similarly situated professionals.
c. All Work shall conform to generally accepted standards in the transit industry. Consultant shall perform all Work in compliance with applicable laws, regulations, rules, ordinances, permit constraints and other legal requirements including, without limitation, those related to safety and environmental protection.
d. Consultant shall furnish only qualified personnel and materials necessary for the

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performance of the Work.

e. When performing Work on UTA property, Consultant shall comply with all UTA work site rules including, without limitation, those related to safety and environmental protection.
f. Consultant is not guaranteed to receive any minimum number of task orders under this Agreement.

2. TASK ORDER ISSUANCE

a. The Consultant's shall perform services with respect to a wide variety of tasks, as described in Exhibit A at the request of UTA.
b. Each discrete item is referred to as a "Task." UTA and the Consultant will negotiate scope, schedule, and a not-to-exceed (NTE) price for each Task, and document those and other terms, as necessary, in a written "Task Order" in substantively the same format as that attached as Exhibit A. The lump sum or not-to-exceed price for each Task shall be developed in accordance with Section 5 of this Contract and Exhibit C. Upon the execution of a Task Order, the Consultant shall perform services for that Task, including furnishing all the materials, appliances, tools, and labor of every kind required, and constructing and completing in the most substantial and skillful manner, the work identified in the scope of work attached as an Exhibit to that Task Order.
c. If UTA, in its sole discretion, decides not to issue additional task orders beyond those already issued, this agreement shall be cancelled at no additional cost (beyond task orders already issued) to either Party.
d. If UTA and the Consultant are unable to agree on the price, scope, or other terms of a Task Order, UTA shall retain the right to remove the Task from the scope of the on-call Consultant and procure the item outside this Contract.

3. PROGRESS OF WORK

a. Consultant shall prosecute the Work in a diligent and continuous manner and in accordance with all applicable notice to proceed, critical path schedule and guaranteed completion date requirements set forth in (or developed and agreed by the parties in accordance with) the Scope of Services.
b. Consultant shall conduct regular meetings to update UTA's Project Manager regarding the progress of the Work including, but not limited to, any unusual conditions or critical path schedule items that could affect or delay the Work. Such meetings shall be held at intervals mutually agreed to between the parties.
c. Consultant shall deliver monthly progress reports and provide all Contract submittals and other deliverables as specified in the Scope of Services.
d. Any drawing or other submittal reviews to be performed by UTA in accordance with the Scope of Services are for the sole benefit of UTA and shall not relieve Consultant of its responsibility to comply with the Contract requirements.
e. UTA will have the right to inspect, monitor and review any Work performed by Consultant hereunder as deemed necessary by UTA to verify that such Work conforms to the Contract requirements. Any such inspection, monitoring and review performed by UTA is for the sole benefit of UTA and shall not relieve Consultant of its responsibility to comply with the

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Contract requirements.

f. UTA shall have the right to reject Work which fails to conform to the requirements of this Contract. Upon receipt of notice of rejection from UTA, Consultant shall (at its sole expense and without entitlement to equitable schedule relief) promptly re-perform, replace or re-execute the Work to conform to the Contract requirements.

g. If Consultant fails to promptly remedy rejected Work as provided in Section 3 (f) UTA may (without limiting or waiving any rights or remedies it may have) perform necessary corrective action using other Consultants or UTA's own forces. Any costs reasonably incurred by UTA in such corrective action shall be chargeable to Consultant.

4. FINAL ACCEPTANCE OF TASKS

Each Task shall be entirely completed – including all punch list items, final cleanup, etc. – by the final acceptance date specified in the applicable Task Order. When, in the opinion of UTA's PM, the Consultant has fully performed the work under a Task Order, UTA's PM will notify the Consultant of final acceptance.

Final acceptance will be final and conclusive except for defects not readily ascertainable by UTA, actual or constructive fraud, gross mistakes amounting to fraud, or other errors which the Consultant knew or should have known about, as well as UTA's rights under any warranty or guarantee. Final acceptance may be revoked by UTA at any time prior to the issuance of the final payment by UTA or upon UTA's discovery of such defects, mistakes, fraud, or errors in the work even after final payment is issued.

5. PERIOD OF PERFORMANCE

The Period of Performance is for one year from the Effective Date. There are 4 additional one-year options to be exercised in UTA's discretion on an annual basis. This Contract shall remain in full force and effect until all Work is completed in accordance with this Contract, as reasonably determined by UTA. Consultant shall complete all Work no later than June 30, 2024, or the completion of all tasks issued prior to that date. (This contract contains four – one-year additional option years which may be exercised in the sole discretion of UTA with 60 days advance written notice. The option period will be subject to the same terms and conditions which are contained in this TOA. This guaranteed completion date may be extended if Consultant and UTA mutually agree to an extension evidenced by a written Change Order. The rights and obligations of UTA and Consultant under this Contract shall at all times be subject to and conditioned upon the provisions of this Contract.)

6. COMPENSATION

Unless otherwise agreed in a Task Order, payment for the completion of Tasks will be in the form of a not-to-exceed price negotiated between UTA and the Consultant and set forth in an executed Task Order. The not-to-exceed price will be negotiated through an open-book cost estimating process based on the pricing elements set forth in Exhibit C. The not-to-exceed price will be paid to the Consultant for satisfactory completion of all work identified in the applicable Task Order. Except as amended by UTA-issued change orders, the amount to be paid to the Consultant for all costs necessary to complete the

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work, whether stated or reasonably implied in the Task Order or other contract documents, will not exceed the lump sum or not-to-exceed price, including all labor, materials, equipment, supplies, small tools, incidental expenses, and any other direct or indirect associated costs'.

7. INCORPORATED DOCUMENTS

a. The following documents hereinafter listed in chronological order, are hereby incorporated into the Contract by reference and made a part hereof:
   1. The terms and conditions of this Task Ordering Agreement (including any exhibits and attachments hereto).
   2. UTA's RFQU including, without limitation, all attached or incorporated terms, conditions, federal clauses (as applicable), drawings, plans, specifications and standards and other descriptions of the Goods and Services;
   3. Consultant's Proposal including, without limitation, all federal certifications (as applicable);

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

8. ORDER OF PRECEDENCE

The Order of Precedence for this contract is as follows:

1. UTA Contract including all attachments
2. UTA Terms and Conditions
3. UTA Solicitation Terms
4. Consultant's Bid or Proposal including proposed terms or conditions

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

9. CHANGES

a. UTA's Project Manager or designee may, at any time, by written order designated or indicated to be a Change Order, direct changes in the Work including, but not limited to, changes:

   1. In the Scope of Services;
   2. In the method or manner of performance of the Work; or
   3. In the schedule or completion dates applicable to the Work.

   To the extent that any change in Work directed by UTA causes an actual and demonstrable impact to: (i) Consultant's cost of performing the work; or (ii) the time required for the Work, then (in either case) the Change Order shall include an equitable adjustment to this Contract to make Consultant whole with respect to the impacts of such change.

b. A change in the Work may only be directed by UTA through a written Change Order or (alternatively) UTA's expressed, written authorization directing Consultant to proceed pending negotiation of a Change Order. Any changes to this Contract undertaken by Consultant without such written authority shall be at Consultant's sole risk. Consultant

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shall not be entitled to rely on any other manner or method of direction.

c. Consultant shall also be entitled to an equitable adjustment to address the actual and demonstrable impacts of "constructive" changes in the Work if: (i) subsequent to the Effective Date of this Contract, there is a material change with respect to any requirement set forth in this Contract; or (ii) other conditions exist or actions are taken by UTA which materially modify the magnitude, character or complexity of the Work from what should have been reasonably assumed by Consultant based on the information included in (or referenced by) this Contract. In order to be eligible for equitable relief for "constructive" changes in Work, Consultant must give UTA's Project Manager or designee written notice stating:
   A. The date, circumstances, and source of the change; and
   B. That Consultant regards the identified item as a change in Work giving rise to an adjustment in this Contract.

   Consultant must provide notice of a "constructive" change and assert its right to an equitable adjustment under this Section within ten (10) days after Consultant becomes aware (or reasonably should have become aware) of the facts and circumstances giving rise to the "constructive" change. Consultant's failure to provide timely written notice as provided above shall constitute a waiver of Consultant's rights with respect to such claim.

d. As soon as practicable, but in no event longer than 30 days after providing notice, Consultant must provide UTA with information and documentation reasonably demonstrating the actual cost and schedule impacts associated with any change in Work. Equitable adjustments will be made via Change Order. Any dispute regarding the Consultant's entitlement to an equitable adjustment (or the extent of any such equitable adjustment) shall be resolved in accordance with Article 21 of this Contract.

10. INVOICING PROCEDURES

a. Consultant shall invoice UTA after achievement of contractual milestones or delivery of all Goods and satisfactory performance of all Services or in accordance with an approved progress or periodic billing schedule. Consultant shall submit invoices to ap@rideuta.com for processing and payment. In order to timely process invoices, Consultant shall include the following information on each invoice:
   i. Consultant Name
   ii. Unique Invoice Number
   iii. PO Number
   iv. Invoice Date
   v. Detailed Description of Charges
   vi. Total Dollar Amount Due

b. UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Software or Services. Approval by UTA shall not be unreasonably withheld. UTA shall also have the right to offset (against payments) amounts reasonably reflecting the value of any claim which UTA has against Consultant under the Contract. Payment for all invoice amounts not specifically disapproved or offset by UTA shall be provided to Consultant within

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thirty (30) calendar days of invoice submittal to ap@rideuta.com . Invoices not submitted electronically will shall be paid thirty (30) calendar days from date of receipt by UTA's accounting department.

c. Invoices must include a unique invoice number, UTA's Purchase Order number, a description of the Good or Service provided, line-item pricing, total amount due, and must be submitted electronically to ap@rideuta.com.

11. OWNERSHIP OF DESIGNS, DRAWINGS, AND WORK PRODUCT

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

12. USE OF SUBCONSULTANTS

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

13. KEY PERSONNEL

Consultant shall provide the key personnel as indicated in Consultant's Proposal (or other applicable provisions of this Contract) and shall not change any of said key personnel without the express written consent of UTA. The following personnel are considered to be "key" under this clause:

Pool A – Bus Stops

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Jason Watson, PE, PTOE, Project Manager
Matt Wangsgaard, PE, Design Manager
Evan Wood, PLS, Survey Lead

Pool B – End of Line Facilities & Pool C – Operator Restrooms
Jason Watson, PE, PTOE, Project Manager
Thomas Romney, PE, Design Manager
Wade Edwards, EIT, Design Lead

If the key personnel listed above are changed without UTA's permission, the Consultant is in default of the contract and liable for default damages.

14. SUSPENSION OF WORK

a. UTA may, at any time, by written order to Consultant, require Consultant to suspend, delay, or interrupt all or any part of the Work called for by this Contract. Any such order shall be specifically identified as a "Suspension of Work Order" issued pursuant to this Article. Upon receipt of such an order, Consultant shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of further costs allocable to the Work covered by the order during the period of Work stoppage.
b. If a Suspension of Work Order issued under this Article is canceled, Consultant shall resume Work as mutually agreed to in writing by the parties hereto.
c. If a Suspension of Work Order is not canceled and the Work covered by such order is terminated for the convenience of UTA, reasonable costs incurred as a result of the Suspension of Work Order shall be considered in negotiating the termination settlement.
d. If the Suspension of Work causes an increase in Consultant's cost or time to perform the Work, UTA's Project Manager or designee shall make an equitable adjustment to compensate Consultant for the additional costs or time and modify this Contract by Change Order.

15. TERMINATION

a. **FOR CONVENIENCE**: UTA shall have the right to terminate the Contract at any time by providing written notice to Consultant. If the Contract is terminated for convenience, UTA shall pay Consultant: (i) in full for Goods delivered and Services fully performed prior to the effective date of termination; and (ii) an equitable amount to reflect costs incurred (including Contract close-out and subconsultant termination costs that cannot be reasonably mitigated) and profit on work-in-progress as of to the effective date of the termination notice. UTA shall not be responsible for anticipated profits based on the terminated portion of the Contract. Consultant shall promptly submit a termination claim to UTA. If Consultant has any property in its possession belonging to UTA, Consultant will account for the same, and dispose of it in the manner UTA directs.

b. **FOR DEFAULT:** If Consultant (a) becomes insolvent; (b) files a petition under any chapter of the bankruptcy laws or is the subject of an involuntary petition; (c) makes

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a general assignment for the benefit of its creditors; (d) has a receiver appointed; (e) should fail to make prompt payment to any subconsultants or suppliers; or (f) fails to comply with any of its material obligations under the Contract, UTA may, in its discretion, after first giving Consultant seven (7) days written notice to cure such default:

1. Terminate the Contract (in whole or in part) for default and obtain the Goods and Services using other Consultants or UTA's own forces, in which event Consultant shall be liable for all incremental costs so incurred by UTA;
2. Pursue other remedies available under the Contract (regardless of whether the termination remedy is invoked); and/or
3. Except to the extent limited by the Contract, pursue other remedies available at law.

c. **CONSULTANT'S POST TERMINATION OBLIGATIONS:**

Upon receipt of a termination notice as provided above, Consultant shall (i) immediately discontinue all work affected (unless the notice directs otherwise); and (ii) deliver to UTA all data, drawings and other deliverables, whether completed or in process. Consultant shall also remit a final invoice for all services performed and expenses incurred in full accordance with the terms and conditions of the Contract up to the effective date of termination. UTA shall calculate termination damages payable under the Contract, shall offset such damages against Consultant's final invoice, and shall invoice Consultant for any additional amounts payable by Consultant (to the extent termination damages exceed the invoice). All rights and remedies provided in this Article are cumulative and not exclusive. If UTA terminates the Contract for any reason, Consultant shall remain available, for a period not exceeding 90 days, to UTA to respond to any questions or concerns that UTA may have regarding the Goods and Services furnished by Consultant prior to termination.

d. **TERMINATION OF TASKS OR TOA**

UTA's termination rights under this Article shall apply, in UTA's discretion, to either an individual task order or the entire TOA. Where the TOA is terminated for convenience, the Consultant shall be entitled to payment in full for all tasks satisfactorily completed prior to the termination date. Where a task is terminated prior to acceptance by UTA, Consultant shall be entitled to its actual allowable and allocable costs expended to the date of termination for the terminated task.

16. INFORMATION, RECORDS and REPORTS; AUDIT RIGHTS

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

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

17. FINDINGS CONFIDENTIAL

Any documents, reports, information, or other data and materials delivered or made available to or prepared or assembled by Consultant or subconsultant under this Contract are considered confidential and shall not be made available to any person, organization, or entity by Consultant without consent in writing from UTA. If confidential information is released to any third party without UTA's written consent as described above, Consultant shall notify UTA of the data breach within 10 days and provide its plan for immediate mitigation of the breach for review and approval by UTA.

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

18. PUBLIC INFORMATION.

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

19. GENERAL INDEMNIFICATION

Consultant shall indemnify, hold harmless and defend UTA, its officers, trustees, agents, and employees (hereinafter collectively referred to as "Indemnitees") from and against all liabilities, claims, actions, damages, losses, and expenses including without limitation reasonable attorneys' fees and costs (hereinafter referred to collectively as "claims")

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related to bodily injury, including death, or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the acts or omissions of Consultant or any of its owners, officers, directors, agents, employees or subconsultants. This indemnity includes any claim or amount arising out of the failure of such Consultant to conform to federal, state, and local laws and regulations. If an employee of Consultant, a subconsultant, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable brings a claim against UTA or another Indemnitee, Consultant's indemnity obligation set forth above will not be limited by any limitation on the amount of damages, compensation or benefits payable under any employee benefit acts, including workers' compensation or disability acts. The indemnity obligations of Consultant shall not apply to the extent that claims arise out of the sole negligence of UTA or the Indemnitees.

20. INSURANCE REQUIREMENTS

Standard Insurance Requirements

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

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

1. Commercial General Liability – Occurrence Form
   Policy shall include bodily injury, property damage and broad form contractual liability coverage.
   - General Aggregate $4,000,000
   - Products – Completed Operations Aggregate $1,000,000
   - Personal and Advertising Injury $1,000,000
   - Each Occurrence $2,000,000

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

2. Automobile Liability
   Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.
   Combined Single Limit (CSL) $2,000,000

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

3. Worker's Compensation and Employers' Liability

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

a. Policy shall contain a waiver of subrogation against the Utah Transit Authority.

b. This requirement shall not apply when a Consultant or subconsultant is exempt under UCA 34A-2-103, AND when such Consultant or subconsultant executes the appropriate waiver form.

4. Professional Liability (Errors and Omissions Liability)
The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this contract.

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

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

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

1. On insurance policies where the Utah Transit Authority is named as an additional insured, the Utah Transit Authority shall be an additional insured to the full limits of liability purchased by the Consultant. Insurance limits indicated in this agreement are minimum limits. Larger limits may be indicated after the consultant's assessment of the exposure for this contract; for their own protection and the protection of UTA.

2. The Consultant's insurance coverage shall be primary insurance and non-

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contributory with respect to all other available sources.

C. NOTICE OF CANCELLATION: Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days prior written notice has been given to the Utah Transit Authority, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to (Utah Transit Authority agency Representative's Name & Address).

D. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the State and with an "A.M. Best" rating of not less than A-VII. The Utah Transit Authority in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.

E. VERIFICATION OF COVERAGE: Consultant shall furnish the Utah Transit Authority with certificates of insurance (on standard ACORD form) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

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

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

F. SUBCONSULTANTS: Consultants' certificate(s) shall include all subconsultants as additional insureds under its policies or subconsultants shall maintain separate insurance as determined by the Consultant, however, subconsultant's limits of liability shall not be less than $1,000,000 per occurrence / $2,000,000 aggregate. Sub-Consultants maintaining separate insurance shall name Utah Transit Authority as an additional insured on their policy. Blanket additional insured endorsements are not acceptable from sub-Consultants. Utah Transit Authority must be scheduled as an additional insured on any sub-Consultant policies.

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G. APPROVAL: Any modification or variation from the insurance requirements in this Contract shall be made by Claims and Insurance Department or the UTA Legal Services, whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.

21. INTELLECTUAL PROPERTY INDEMNIFICATION

a. Consultant shall protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all Claims of any kind or nature whatsoever on account of infringement relating to Consultant's performance under this Contract. If notified promptly in writing and given authority, information and assistance, Consultant shall defend, or may settle at its expense, any suit or proceeding against UTA so far as based on a claimed infringement and Consultant shall pay all damages and costs awarded therein against UTA due to such breach. In case any portion of the Work is in such suit held to constitute such an infringement or an injunction is filed that interferes with UTA's rights under this Contract, Consultant shall, at its expense and through mutual agreement between the UTA and Consultant, either procure for UTA any necessary intellectual property rights, or modify Consultant's services or deliverables such that the claimed infringement is eliminated.

b. Consultant shall: (i) protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all liens or Claims made or filed against UTA or upon the Work or the property on which the Work is located on account of any labor performed or labor, services, and equipment furnished by subconsultants of any tier; and (ii) keep the Work and said property free and clear of all liens or claims arising from the performance of any Work covered by this Contract by Consultant or its subconsultants of any tier. If any lien arising out of this Contract is filed, before or after Work is completed, Consultant, within ten (10) calendar days after receiving from UTA written notice of such lien, shall obtain a release of or otherwise satisfy such lien. If Consultant fails to do so, UTA may take such steps and make such expenditures as in its discretion it deems advisable to obtain a release of or otherwise satisfy any such lien or liens, and Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA in obtaining such release or satisfaction. If any non-payment claim is made directly against UTA arising out of non-payment to any subconsultant, Consultant shall assume the defense of such claim within ten (10) calendar days after receiving from UTA written notice of such claim. If Consultant fails to do so, Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA to satisfy such claim.

22. INDEPENDENT CONSULTANT

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

23. PROHIBITED INTEREST

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

24. CLAIMS/DISPUTE RESOLUTION

a. "Claim" means any disputes between UTA and the Consultant arising out of or relating to the Contract Documents including any disputed claims for Contract adjustments that cannot be resolved in accordance with the Change Order negotiation process set forth in Article 6. Claims must be made by written notice. The responsibility to substantiate claims rests with the party making the claim.

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

c. The parties shall attempt to informally resolve all claims, counterclaims and other disputes through the escalation process described below. No party may bring a legal action to enforce any term of this Contract without first having exhausted such process.

d. The time schedule for escalation of disputes, including disputed requests for change order, shall be as follows:

Level of Authority	Time Limit
UTA's Project Manager/Consultant's Project Manager	Five Calendar Days
UTA's Director of Capital Development/Consultant's Managing Partner	Five Calendar Days
UTA's Chief Service Development Officer/Consultant's Managing Partner	Five Calendar Days

Unless otherwise directed by UTA's Project Manager, Consultant shall diligently continue performance under this Contract while matters in dispute are being resolved.

If the dispute cannot be resolved informally in accordance with the escalation procedures set forth above, then either party may commence formal mediation under the Juris Arbitration and Mediation (JAMS) process using a mutually agreed upon JAMS mediator. If resolution does not occur through Mediation, then legal action may be commenced in accordance the venue and governing law provisions of this contract.

25. GOVERNING LAW

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

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26. ASSIGNMENT OF CONTRACT

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

27. NONWAIVER

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

28. NOTICES OR DEMANDS

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

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

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

If to Consultant:
ATTN: Jason Watson
6949 S High Tech Drive, Suite 200
Salt Lake City, UT 84047

c. Any such notice shall be deemed to have been given, and shall be effective, on delivery to the notice address then applicable for the party to which the notice is directed; provided, however, that refusal to accept delivery of a notice or the inability to deliver a notice because of an address change which was not properly communicated shall not defeat or delay the giving of a notice. Either party may change the address at which such party desires to receive written notice by providing written notice of such change to any other party.

d. Notwithstanding Section 23.1, the parties may, through mutual agreement, develop alternative communication protocols to address change notices, requests for information and similar categories of communications. Communications provided pursuant to such agreed means shall be recognized as valid notices under this Contract.

29. CONTRACT ADMINISTRATOR

UTA's Contract Administrator for this Contract is Vicki Woodward, or designee. All questions and

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correspondence relating to the contractual aspects of this Contract should be directed to said Contract Administrator, or designee.

30. INSURANCE COVEREAGE REQUIREMENTS FOR CONSULTANT EMPLOYEES ON DESIGN AND CONSTRUCTION CONTRACTS

a. The following requirements apply to design and construction contracts to the extent that: (i) the initial value of this Contract is equal to or in excess of $2 million; (ii) this Contract, with subsequent modifications, is reasonably anticipated to equal or exceed $2 million; (iii) Consultant has a subcontract at any tier that involves a sub-consultant that has an initial subcontract equal to or in excess of $1 million; or (iv) any subcontract, with subsequent modifications, is reasonably anticipated to equal or exceed $1 million:

b. Consultant shall, prior to the effective date of this Contract, demonstrate to UTA that Consultant has and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the Consultant's employees and the employee's dependents during the duration of this Contract.

c. Consultant shall also demonstrate to UTA that subconsultants meeting the above-described subcontract value threshold have and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5for the subconsultant's employees and the employee's dependents during the duration of the subcontract.

31. COSTS AND ATTORNEYS FEES

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

32. NO THIRD-PARTY BENEFICIARY

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

33. FORCE MAJEURE

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

34. UTAH ANTI-BOYCOTT OF ISRAEL ACT

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

35. SEVERABILITY

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

36. ENTIRE AGREEMENT

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

37. AMENDMENTS

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

38. COUNTERPARTS

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

39. SURVIVAL

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

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IN WITNESS WHEREOF, the parties have made and executed this Contract as of the day, month and year of the last signature contained below.

UTAH TRANSIT AUTHORITY:

By: Date:
Jay Fox
Executive Director

By: Date:
Mary DeLoretto
Chief Service Development Officer

Approved as to Content and Form

By: DocuSigned by: Mike Bell 70E33A415BA44F6... Date: 5/24/2023
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:
Travis Colledge
UTA Project Manager

FOCUS ENGINEERING & SURVEYING, LLC:

By: DocuSigned by: Jason Watson D3F0BA57A9EE4A9... Date: 5/24/2023
Jason Watson
Transportation Department Manager

Fed ID# 20-8912822

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EXHIBIT A – SCOPE OF SERVICES

Task Orders shall be issued using the sample format contained at Exhibit C.

All individual Task Orders that are issued to the Consultant will contain their own specific Statement of work, period of performance and not-to-exceed pricing based on the negotiated rates listed in Exhibit B. Each Individual Task Order will include a scope of services specific to the needed services which is within the scope of the statement of services contained in the RFQU.

UTA is awarding Master Tasks Ordering Agreements (MTOA) to FOCUS Engineering & Surveying, LLC, for the following Pools:
Pool A – Bus Stops
Pool B – End of Line facilities
Pool C – Operator Restrooms.

The Period of Performance for the Master Tasks Ordering Agreement (MTOA) shall be for one year until June 30, 2024, with four – one-year options. Task Orders will be issued as needed.
Overall management of the MTOA and Task Orders will be under the direction of UTA through the Capital Development office. Work by the selected Consultant shall be in conformance with the pricing, schedule, staffing plan, and budget included in the MTOA and the individual Task Orders.

The Consultant is expected to perform and fulfill the following activities and requirements for Utah Transit Authority.

The Consultant will work closely with the UTA Project Manager, UTA's Program Manager, UTA engineering and operations staff, and requisite project stakeholders to accomplish the as-needed design services as listed in the Scope of Work and in accordance with UTA's procedures.

Pool A - Bus Stop Designs - UTA has guidelines for bus stop designs from Level 1 8'x8' pad up to Level VI 40' x 15' footprint. Bus Stop Levels I-VI are in Appendix VI Bus Stops Design by Level. Right-of-way services and acquisition maybe required to design bus stops. Fiber for digital real-time signage is optional any maybe added depending on location. Follow the most recent UTA Design Criteria for all civil elements.

Pool B -End of Line Facilities - Include bus sawtooths, bus circulation area, operator restrooms, wayfinding, bike parking, benches, bus shelters, utility, and site civil work including access. Bus charging and dedicated via rideshare parking is optional and maybe added depending on location. Follow the most recent UTA Design Criteria for all civil elements.

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Pool C -Operator Restrooms - Will be located at UTA hubs or at a EOL facilities. These are prefabricated buildings that sit on a concrete foundation with 2 or 3 restrooms and a break room. Utilities needed are electrical, sewer, and water. Follow the most recent UTA Design Criteria for all civil elements.

The Designer shall provide the necessary professional engineers; right-of-way acquisition agents; surveyors; and other staff with professional and technical skills, materials, supplies, and services other than those specifically provided by UTA, required to successfully complete this Scope of Work to meet the Project Goals.

Project Goals are:

1. Prepare high quality design packages for bus system enhancement projects to a level ready to be issued for construction.
2. Coordinate stakeholder engagement and obtain necessary plan reviews and approvals required for project permitting. Include designer dispositions showing all comments are resolved including stakeholder approval.
3. Provide the issue for construction package with a cost estimate and summary of stakeholder comments.
4. Provide design consultant support services through the completion of construction projects.

The actual services to be provided shall be described in specific Task Orders. Major work elements anticipated under this MOTA include the following items:

1. Project Management, Administration, and Coordination
2. Design/Engineering Services
3. Agency Coordination Support
4. Public Outreach Support (as needed)

Each Task Order will contain an appropriate schedule showing the completion of the scope of work. The schedule will contain detail consistent with the complexity of the project.

Project Management, Administration, and Coordination

The Designer shall be capable of and prepared to provide project management, administration, and coordination services as necessary to gather and direct a qualified team, conduct meetings, track and resolve issues, and conduct other supervisory services commensurate with the given task order.

Design/Engineering Services

The Designer shall prepare design in accordance with UTA standards and specifications and appropriate jurisdictional roadway design standards unless design waivers and deviations are approved. The Designer will be responsible for development of final engineering level engineering drawings. This engineering development could start with

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preliminary designs at a level of 10% to 30% depending on the Task Order.

The Program Manager Services Consultant (PMSC) will assist UTA with oversight of the engineering process.

It is anticipated that design will include but is not limited to:

- Civil and site development design
- Structural design including retaining walls.
- Geotechnical analysis
- Drainage design
- Utilities
- Electrical Engineering
- Architectural design
- Survey and mapping
- Right-of-way including acquisition (as needed)
- Earthwork and Grading
- Bus Stop Design
- Maintenance of Traffic
- Quantities and estimating

In addition to anticipated design disciplines listed above, the Designer shall consider and anticipate including the following elements in the completion of design:

- Schedule
- Quality Control
- Design Criteria
- Specifications
- Environmental Permits
- Value Engineering
- Design Services During Construction
- As-Built Drawings

Public Outreach and Agency Coordination Support

Public outreach appropriate for the level of design services will be managed by the UTA Public Community Engagement Office and coordinated with the PMSC.

The Designer(s) shall be prepared to support UTA and the PMSC with public outreach and agency coordination.

The Designer(s) will coordinate with UTA to provide timely and accurate project information.

The Designer(s) shall support UTA and the PMSC with coordination with requisite stakeholders. The Designer(s) shall participate in stakeholder coordination meetings, as

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needed per Task Order. Project stakeholders may include representatives from the Utah Department of Transportation (UDOT), municipalities, and other agencies to be determined.

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EXHIBIT B – PRICING

CONTRACT PRICING STRUCTURE

For the avoidance of doubt, this contract is a firm fixed price labor hour contract. The labor rates for the various categories of labor to be used under this contract are loaded with overhead, profit and G&A and are fixed for the life of the contract subject to a yearly 3% escalation factor July of each calendar year. This contract has a total Not-To-Exceed amount of $500,000 for year one. Additional NTE amounts shall be established for each option year at the time of exercise.

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POOL A - Bus Stops

23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet - **Pool A - Bus Stops**

No	Firm	Prime	Sub	Last Name	First Name	Discipline/ Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
						Example				
1	ABC Consulting	x		Smith	Bob	PM	$ 75.48	135.70%	8%	$ 192.14
2	XYZ		x	Johnson	Shelley	Planner	$ 62.89	152.40%	7%	$ 169.85
						Proposed				
1	FOCUS Engineering & Surveying	x		Watson	Jason	PM	$ 66.83	184.28%	10%	$ 208.98
2	FOCUS Engineering & Surveying	x		Wangsgaard	Mat	Design Manager	$ 45.43	184.28%	10%	$ 142.06
3	FOCUS Engineering & Surveying	x		Edwards	Wade	Design Engineer	$ 36.54	184.28%	10%	$ 114.26
4	FOCUS Engineering & Surveying	x		Li	Guangyao	Design Engineer	$ 31.25	184.28%	10%	$ 97.72
5	FOCUS Engineering & Surveying	x		Tchivwila	Moise	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
6	FOCUS Engineering & Surveying	x		Shabaan	Ali	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
7	FOCUS Engineering & Surveying	x		Adair	Cody	CAD Designer	$ 34.13	184.28%	10%	$ 106.73
8	FOCUS Engineering & Surveying	x		Wood	Evan	Survey Lead	$ 55.29	184.28%	10%	$ 172.90
9	FOCUS Engineering & Surveying	x		Lundberg	Justin	Survey	$ 40.38	184.28%	10%	$ 126.27
10	FOCUS Engineering & Surveying	x		Price	Chad	Survey Crew Chief	$ 31.25	184.28%	10%	$ 97.72
11	FOCUS Engineering & Surveying	x		Tolley	Annika	Survey Tech	$ 21.00	184.28%	10%	$ 65.67
12	FOCUS Engineering & Surveying	x		Tineo	MJ	CAD Designer	$ 31.25	184.28%	10%	$ 97.72
13	FOCUS Engineering & Surveying	x		Atwood	Tim	CAD Designer	$ 24.50	184.28%	10%	$ 76.61
14	FOCUS Engineering & Surveying	x		Musimbi	Rebecca	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
15	FOCUS Engineering & Surveying	x		Smith	Aaron	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
16	FOCUS Engineering & Surveying	x		Sorenson	Park	QC/QA	$ 42.79	184.28%	10%	$ 133.81
17	FOCUS Engineering & Surveying	x		Ball	Curtis	QC/QA	$ 40.63	184.28%	10%	$ 127.05
18	Davenport Consulting		x	Davenport	Brandi	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	
19	Davenport Consulting		x	McMillan	Carter	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	

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POOL B – End of Line Facilities

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23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet - **Pool B - End of Line Facilities**

No	Firm	Prime	Sub	Last Name	First Name	Discipline/ Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
					Example					
1	ABC Consulting	x		Smith	Bob	PM	$ 75.48	135.70%	8%	$ 192.14
2	XYZ		x	Johnson	Shelley	Planner	$ 62.89	152.40%	7%	$ 169.85
					Proposed					
1	FOCUS Engineering & Surveying	x		Watson	Jason	PM	$ 66.83	184.28%	10%	$ 208.98
2	FOCUS Engineering & Surveying	x		Romney	Thomas	Design Manager	$ 66.83	184.28%	10%	$ 208.98
3	FOCUS Engineering & Surveying	x		Edwards	Wade	Design Engineer	$ 36.54	184.28%	10%	$ 114.26
5	FOCUS Engineering & Surveying	x		Li	Guangyao	Design Engineer	$ 31.25	184.28%	10%	$ 97.72
6	FOCUS Engineering & Surveying	x		Tchivwila	Moise	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
7	FOCUS Engineering & Surveying	x		Shabaan	Ali	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
4	FOCUS Engineering & Surveying	x		Adair	Cody	CAD Designer	$ 34.13	184.28%	10%	$ 106.73
8	FOCUS Engineering & Surveying	x		Wood	Evan	Survey Lead	$ 55.29	184.28%	10%	$ 172.90
9	FOCUS Engineering & Surveying	x		Lundberg	Justin	Survey	$ 40.38	184.28%	10%	$ 126.27
10	FOCUS Engineering & Surveying	x		Price	Chad	Survey Crew Chief	$ 31.25	184.28%	10%	$ 97.72
11	FOCUS Engineering & Surveying	x		Tolley	Annika	Survey Tech	$ 21.00	184.28%	10%	$ 65.67
12	FOCUS Engineering & Surveying	x		Tineo	MJ	CAD Designer	$ 31.25	184.28%	10%	$ 97.72
13	FOCUS Engineering & Surveying	x		Atwood	Tim	CAD Designer	$ 24.50	184.28%	10%	$ 76.61
14	FOCUS Engineering & Surveying	x		Musimbi	Rebecca	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
15	FOCUS Engineering & Surveying	x		Smith	Aaron	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
16	FOCUS Engineering & Surveying	x		Sorenson	Park	QC/QA	$ 42.79	184.28%	10%	$ 133.81
17	FOCUS Engineering & Surveying	x		Ball	Curtis	QC/QA	$ 40.63	184.28%	10%	$ 127.05
18	Davenport Consulting		x	Davenport	Brandi	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	
19	Davenport Consulting		x	McMillan	Carter	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	

POOL C - Operator Restrooms

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23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet - **Pool C - Operator Restrooms**

No	Firm	Prime	Sub	Last Name	First Name	Discipline/ Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
						Example				
1	ABC Consulting	x		Smith	Bob	PM	$ 75.48	135.70%	8%	$ 192.14
2	XYZ		x	Johnson	Shelley	Planner	$ 62.89	152.40%	7%	$ 169.85
						Proposed				
1	FOCUS Engineering & Surveying	x		Watson	Jason	PM	$ 66.83	184.28%	10%	$ 208.98
2	FOCUS Engineering & Surveying	x		Romney	Thomas	Design Manager	$ 66.83	184.28%	10%	$ 208.98
3	FOCUS Engineering & Surveying	x		Edwards	Wade	Design Engineer	$ 36.54	184.28%	10%	$ 114.26
4	FOCUS Engineering & Surveying	x		Li	Guangyao	Design Engineer	$ 31.25	184.28%	10%	$ 97.72
5	FOCUS Engineering & Surveying	x		Tchivwila	Moise	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
6	FOCUS Engineering & Surveying	x		Shabaan	Ali	Design Engineer	$ 18.00	184.28%	10%	$ 56.29
7	FOCUS Engineering & Surveying	x		Adair	Cody	CAD Designer	$ 34.13	184.28%	10%	$ 106.73
8	FOCUS Engineering & Surveying	x		Wood	Evan	Survey Lead	$ 55.29	184.28%	10%	$ 172.90
9	FOCUS Engineering & Surveying	x		Lundberg	Justin	Survey	$ 40.38	184.28%	10%	$ 126.27
10	FOCUS Engineering & Surveying	x		Price	Chad	Survey Crew Chief	$ 31.25	184.28%	10%	$ 97.72
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14	FOCUS Engineering & Surveying	x		Musimbi	Rebecca	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
15	FOCUS Engineering & Surveying	x		Smith	Aaron	CAD Designer	$ 18.00	184.28%	10%	$ 56.29
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18	Davenport Consulting		x	Davenport	Brandi	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	
19	Davenport Consulting		x	McMillan	Carter	Right of Way Agent			$1800 per parcel for acquisition for up to 6 months of negotiations ($150 per hour after 6 months) / $700 per administration compensation estimate	

CONTRACT PRICING STRUCTURE

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For the avoidance of doubt, this contract is a firm fixed price labor hour contract. The labor rates for the various categories of labor to be used under this contract are loaded with overhead, profit and G&A and are fixed for the life of the contract subject to a yearly 3% escalation factor July of each calendar year.

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EXHIBIT C – TASK ORDER TEMPLATE

TASK ORDER NO. _____

TASK ORDER NAME: _____

This is Task Order No. _____ to Contract No. _____ entered into by and between Utah Transit Authority (UTA) and _____, (Consultant) as of _____, _____, 202_

This Task Order is part of the above-described Contract and is governed by the terms thereof.
The purpose of this Task Order is to specifically define the scope, schedule, lump sum price, or not-to-exceed and other terms applicable to the work identified herein.
UTA and Consultant hereby agree as follows:

1.0 SCOPE OF SERVICES

The scope of work for this Task Order _____ is hereby attached and incorporated into this Task Order.

2.0 SCHEDULE

The Substantial Completion Date for this Task is _____, ____, 202_. The Final Acceptance Date for this Task is _____, _____, 202_.

3.0 PRICE

The lump sum or not-to-exceed (select one) price for this task order is _____. Invoices will be billed on monthly, milestone or task completion basis (select one).

4.0 APPLICABILITY OF FEDERAL FORMS AND CLAUSES

This Task Order does ☐ does not☐ [Check Applicable] include federal assistance funds which requires the application of the Federal Forms and Clauses appended as Exhibits D and E on the Contract.

5.0 IF THIS TASK ORDER IS FEDERAL FUNDS, THE DBE GOAL IS _____%.

IN WITNESS WHEREOF, this Task Order has been executed by UTA and the Consultant or its appointed representative.

Utah Transit Authority		**Focus Engineering & Surveying, LLC.**	
By:	Date:	By:	Date:

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By: Date: By: Date:

Approved as to Content and Form

By: Date:
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:

UTA Project Manager

ATTACHMENT 1 – TASK ORDER STATEMENT OF WORK OR SERVICES

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Mary DeLoretto, Chief Capital Services Officer
PRESENTER(S):	Dave Hancock, Director of Capital Development Travis Colledge, Project Manager III

TITLE:

Contract: Master Task Ordering Agreement for Bus System Enhancement Design Services Consultant Pools A, B, C (Kimley-Horn and Associates, Inc.)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Authorize the Executive Director to execute the bus system enhancement Master Task Ordering Agreement, and associated disbursements, with Kimley-Horn and Associates, Inc. for one year with a not-to-exceed amount of $500,000.

BACKGROUND:
In the 2023-2027 Five-year Capital Plan, local funding has been allocated yearly for Bus Stops, End of Line Facilities, and Operator Restrooms. To develop an ongoing yearly program of projects for bus system improvements, Design Pools A, B, and C were developed. Maintaining a pool of pre-qualified consultants that may be solicited to complete tasks via task order will increase UTA's efficiency to deliver system enhancement projects yearly and utilize the programmed budget. Since requirements and budget are determined on an annual basis, these contracts are for one year with 4 additional one-year options to be exercised each year contingent on the availability of funds. Board approval will be obtained prior to the exercise of each option provided its value exceeds $200,000.

DISCUSSION:
If approved, Kimley-Horn and Associates, Inc. is qualified for Design Pools A, B, and C:

- Pool A-Bus Stops $300,000 for one year
- Pool B-End of Line (EOL) Facilities $100,000 for one year

- Pool C-Operator Restrooms $100,000 for one year

No work is authorized, nor funds obligated until a task order is issued under this contract. Individual task orders totaling $200,000 or more will be brought to the board for approval. If the cost of all task orders issued for year one under this agreement exceeds the not-to- exceed Amount of $500,000, additional board approval will be required.

CONTRACT SUMMARY:

Contractor Name:	Kimley-Horn and Associates, Inc.
Contract Number:	23-036853 VW
Base Contract Effective Dates:	6/14/2023 to 6/14/2024
Extended Contract Dates:	N/A
Existing Contract Value:	N/A
Amendment Amount:	N/A
New/Total Contract Value:	$500,000 (Not to Exceed Amount for pools A, B, & C)
Procurement Method:	RFQu (Qualification)
Budget Authority:	2023Capital Budget

ALTERNATIVES:

By not developing a pool of consultants for design services, UTA is compromised in its ability to deliver system enhancement projects. The alternative to executing contracts for design services in each pool category would require three RFQu's for design services every year and create additional work while possibly impacting completion dates. The current approach streamlines the process, allows for more efficient delivery, and helps ensure the project gets completed on time.

FISCAL IMPACT:

The 2023 Capital Budget includes fund for these busy system enhancement design services.

ATTACHMENTS:

1) Contract

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TASK ORDERING AGREEMENT FOR PROFESSIONAL SERVICES
UTA CONTRACT #23-036853VW
Bus System Enhancements Design Services Pools
A – Bus Stops
B – End of Line facilities
C – Operator Restrooms

This Task Ordering Agreement (TOA) is entered into and made effective as of the date of last signature below (the "Effective Date") by and between UTAH TRANSIT AUTHORITY**,** a public transit district organized under the laws of the State of Utah ("UTA"), and Kimley-Horn and Associates, Inc. ("Consultant").

RECITALS

WHEREAS, UTA desires to award a task ordering contract for professional consulting services per the Statement of Services contained at Exhibit A.

WHEREAS, on February 23, 2023, UTA issued Request for Qualifications Package Number 23-03685VW ("RFQu") encouraging interested parties to submit Statement of Qualifications (SOQ) to perform the services described in the RFQu.

WHEREAS, upon evaluation of the SOQs submitted in response to the RFQU, UTA selected Consultant as the preferred entity with whom to negotiate a contract to perform the Work.

WHEREAS, Consultant is qualified and willing to perform the Work as set forth in the Scope of Services.

AGREEMENT

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

1. SERVICES TO BE PROVIDED

a. Consultant shall perform all Tasks issued under this TOA as set forth in the Scope of Services (Exhibit A). Except for items (if any) which this Contract specifically states will be UTA-provided, Consultant shall furnish all the labor, material and incidentals necessary for the Work.
b. Consultant shall perform all Work under this TOA in a professional manner, using at least that standard of care, skill and judgment which can reasonably be expected from similarly situated professionals.
c. All Work shall conform to generally accepted standards in the transit industry. Consultant shall perform all Work in compliance with applicable laws, regulations, rules, ordinances, permit constraints and other legal requirements including, without limitation, those related to safety and environmental protection.
d. Consultant shall furnish only qualified personnel and materials necessary for the

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performance of the Work.

e. When performing Work on UTA property, Consultant shall comply with all UTA work site rules including, without limitation, those related to safety and environmental protection.
f. Consultant is not guaranteed to receive any minimum number of task orders under this Agreement.

2. TASK ORDER ISSUANCE

a. The Consultant's shall perform services with respect to a wide variety of tasks, as described in Exhibit A at the request of UTA.
b. Each discrete item is referred to as a "Task." UTA and the Consultant will negotiate scope, schedule, and a not-to-exceed (NTE) price for each Task, and document those and other terms, as necessary, in a written "Task Order" in substantively the same format as that attached as Exhibit A. The lump sum or not-to-exceed price for each Task shall be developed in accordance with Section 5 of this Contract and Exhibit C. Upon the execution of a Task Order, the Consultant shall perform services for that Task, including furnishing all the materials, appliances, tools, and labor of every kind required, and constructing and completing in the most substantial and skillful manner, the work identified in the scope of work attached as an Exhibit to that Task Order.
c. If UTA, in its sole discretion, decides not to issue additional task orders beyond those already issued, this agreement shall be cancelled at no additional cost (beyond task orders already issued) to either Party.
d. If UTA and the Consultant are unable to agree on the price, scope, or other terms of a Task Order, UTA shall retain the right to remove the Task from the scope of the on-call Consultant and procure the item outside this Contract.

3. PROGRESS OF WORK

a. Consultant shall prosecute the Work in a diligent and continuous manner and in accordance with all applicable notice to proceed, critical path schedule and completion date requirements set forth in (or developed and agreed by the parties in accordance with) the Scope of Services. Times for performance shall be extended as necessary for delays or suspensions due to circumstances that the Consultant does not control.
b. Consultant shall conduct regular meetings to update UTA's Project Manager regarding the progress of the Work including, but not limited to, any unusual conditions or critical path schedule items that could affect or delay the Work. Such meetings shall be held at intervals mutually agreed to between the parties.
c. Consultant shall deliver monthly progress reports and provide all Contract submittals and other deliverables as specified in the Scope of Services.
d. Any drawing or other submittal reviews to be performed by UTA in accordance with the Scope of Services are for the sole benefit of UTA and shall not relieve Consultant of its responsibility to comply with the Contract requirements.
e. UTA will have the right to inspect, monitor and review any Work performed by Consultant hereunder as deemed necessary by UTA to verify that such Work conforms to the Contract requirements. Any such inspection, monitoring and review performed by UTA is for the sole

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benefit of UTA and shall not relieve Consultant of its responsibility to comply with the Contract requirements.

f. UTA shall have the right to reject Work which fails to conform to the requirements of this Contract. Upon receipt of notice of rejection from UTA, Consultant shall (at its sole expense and without entitlement to equitable schedule relief) promptly re-perform, replace or re-execute the Work to conform to the Contract requirements.

g. If Consultant fails to promptly remedy rejected Work as provided in Section 3 (f) UTA may (without limiting or waiving any rights or remedies it may have) perform necessary corrective action using other Consultants or UTA's own forces. Any costs reasonably incurred by UTA in such corrective action shall be chargeable to Consultant.

4. FINAL ACCEPTANCE OF TASKS

Each Task shall be entirely completed by the final acceptance date specified in the applicable Task Order. When, in the opinion of UTA's PM, the Consultant has fully performed the work under a Task Order, UTA's PM will notify the Consultant of final acceptance.

Final acceptance will be final and conclusive except for negligent errors not readily ascertainable by UTA, actual or constructive fraud, gross mistakes amounting to fraud, or other errors which the Consultant knew or should have known about, as well as UTA's rights under any warranty or guarantee. Final acceptance may be revoked by UTA at any time prior to the issuance of the final payment by UTA or upon UTA's discovery of such negligent errors, mistakes, fraud, or errors in the work even after final payment is issued.

5. PERIOD OF PERFORMANCE

The Period of Performance is for one year from the Effective Date. There are 4 additional one-year options to be exercised in UTA's discretion on an annual basis. This Contract shall remain in full force and effect until all Work is completed in accordance with this Contract, as reasonably determined by UTA. Consultant shall complete all Work for year one no later than June 30, 2024, or the completion of all tasks issued prior to that date. (This contract contains four – one-year additional option years which may be exercised in the sole discretion of UTA with 60 days advance written notice. The option period will be subject to the same terms and conditions which are contained in this TOA. This guaranteed completion date may be extended if Consultant and UTA mutually agree to an extension evidenced by a written Change Order. The rights and obligations of UTA and Consultant under this Contract shall at all times be subject to and conditioned upon the provisions of this Contract.)

6. COMPENSATION

Unless otherwise agreed in a Task Order, payment for the completion of Tasks will be in the form of a not-to-exceed price negotiated between UTA and the Consultant and set forth in an executed Task Order. The not-to-exceed price will be negotiated through an open-book cost estimating process based on the pricing elements set forth in Exhibit C. The not-to-exceed price will be paid to the Consultant for satisfactory completion of all work identified in the applicable Task Order. Except as amended by UTA-issued change

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orders, the amount to be paid to the Consultant for all costs necessary to complete the work, whether stated or reasonably implied in the Task Order or other contract documents, will not exceed the lump sum or not-to-exceed price, including all labor, materials, equipment, supplies, small tools, incidental expenses, and any other direct or indirect associated costs'.

7. INCORPORATED DOCUMENTS

a. The following documents hereinafter listed in chronological order, are hereby incorporated into the Contract by reference and made a part hereof:
    1. The terms and conditions of this Task Ordering Agreement (including any exhibits and attachments hereto).
    2. UTA's RFQU including, without limitation, all attached or incorporated terms, conditions, federal clauses (as applicable), drawings, plans, specifications and standards and other descriptions of the Goods and Services;
    3. Consultant's Proposal including, without limitation, all federal certifications (as applicable);

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

8. ORDER OF PRECEDENCE

The Order of Precedence for this contract is as follows:

1. UTA Contract including all attachments
2. UTA Terms and Conditions
3. UTA Solicitation Terms
4. Consultant's Bid or Proposal including proposed terms or conditions

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

9. CHANGES

a. UTA's Project Manager or designee may, at any time, by written order designated or indicated to be a Change Order, direct changes in the Work including, but not limited to, changes:
    1. In the Scope of Services;
    2. In the method or manner of performance of the Work; or
    3. In the schedule or completion dates applicable to the Work.

    To the extent that any change in Work directed by UTA causes an actual and demonstrable impact to: (i) Consultant's cost of performing the work; or (ii) the time required for the Work, then (in either case) the Change Order shall include an equitable adjustment to this Contract to make Consultant whole with respect to the impacts of such change.

b. A change in the Work may only be directed by UTA through a written Change Order or (alternatively) UTA's expressed, written authorization directing Consultant to proceed pending negotiation of a Change Order. Any changes to this Contract undertaken by Consultant without such written authority shall be at Consultant's sole risk. Consultant

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shall not be entitled to rely on any other manner or method of direction.

c. Consultant shall also be entitled to an equitable adjustment to address the actual and demonstrable impacts of "constructive" changes in the Work if: (i) subsequent to the Effective Date of this Contract, there is a material change with respect to any requirement set forth in this Contract; or (ii) other conditions exist or actions are taken by UTA which materially modify the magnitude, character or complexity of the Work from what should have been reasonably assumed by Consultant based on the information included in (or referenced by) this Contract. In order to be eligible for equitable relief for "constructive" changes in Work, Consultant must give UTA's Project Manager or designee written notice stating:
   A. The date, circumstances, and source of the change; and
   B. That Consultant regards the identified item as a change in Work giving rise to an adjustment in this Contract.

   Consultant must provide notice of a "constructive" change and assert its right to an equitable adjustment under this Section within ten (10) days after Consultant becomes aware (or reasonably should have become aware) of the facts and circumstances giving rise to the "constructive" change. Consultant's failure to provide timely written notice as provided above shall constitute a waiver of Consultant's rights with respect to such claim.

d. As soon as practicable, but in no event longer than 30 days after providing notice, Consultant must provide UTA with information and documentation reasonably demonstrating the actual cost and schedule impacts associated with any change in Work. Equitable adjustments will be made via Change Order. Any dispute regarding the Consultant's entitlement to an equitable adjustment (or the extent of any such equitable adjustment) shall be resolved in accordance with Article 21 of this Contract.

10. INVOICING PROCEDURES

a. Consultant shall invoice UTA after achievement of contractual milestones or delivery of all Goods and satisfactory performance of all Services or in accordance with an approved progress or periodic billing schedule. Consultant shall submit invoices to ap@rideuta.com for processing and payment. In order to timely process invoices, Consultant shall include the following information on each invoice:
   i. Consultant Name
   ii. Unique Invoice Number
   iii. PO Number
   iv. Invoice Date
   v. Detailed Description of Charges
   vi. Total Dollar Amount Due

b. UTA shall have the right to disapprove (and withhold from payment) specific line items of each invoice to address non-conforming Software or Services. Approval by UTA shall not be unreasonably withheld. UTA shall also have the right to offset (against payments) amounts reasonably reflecting the value of any claim which UTA has against Consultant under the Contract. Payment for all invoice amounts not specifically disapproved or offset by UTA shall be provided to Consultant within

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thirty (30) calendar days of invoice submittal to ap@rideuta.com. Invoices not submitted electronically will shall be paid thirty (30) calendar days from date of receipt by UTA's accounting department.

c. Invoices must include a unique invoice number, UTA's Purchase Order number, a description of the Good or Service provided, line-item pricing, total amount due, and must be submitted electronically to ap@rideuta.com.

11. OWNERSHIP OF DESIGNS, DRAWINGS, AND WORK PRODUCT

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

12. USE OF SUBCONSULTANTS

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

13. KEY PERSONNEL

Consultant shall provide the key personnel as indicated in Consultant's Proposal (or other applicable provisions of this Contract) and shall not change any of said key personnel without the express written consent of UTA. The following personnel are considered to be "key" under this clause:

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Chris Price, PE, Project Manager
Brent Crowther, PE, PTOE, RSP, PIC/Multimodal Integration
John Matern, PE, Transit Design Lead
Amanda Risano, PE, Site Civil Lead/Earthwork/Utilities

If the key personnel listed above are changed without UTA's permission, the Consultant is in default of the contract and liable for default damages.

14. SUSPENSION OF WORK

a. UTA may, at any time, by written order to Consultant, require Consultant to suspend, delay, or interrupt all or any part of the Work called for by this Contract. Any such order shall be specifically identified as a "Suspension of Work Order" issued pursuant to this Article. Upon receipt of such an order, Consultant shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of further costs allocable to the Work covered by the order during the period of Work stoppage.
b. If a Suspension of Work Order issued under this Article is canceled, Consultant shall resume Work as mutually agreed to in writing by the parties hereto.
c. If a Suspension of Work Order is not canceled and the Work covered by such order is terminated for the convenience of UTA, reasonable costs incurred as a result of the Suspension of Work Order shall be considered in negotiating the termination settlement.
d. If the Suspension of Work causes an increase in Consultant's cost or time to perform the Work, UTA's Project Manager or designee shall make an equitable adjustment to compensate Consultant for the additional costs or time and modify this Contract by Change Order.

15. TERMINATION

a. **FOR CONVENIENCE**: UTA shall have the right to terminate the Contract at any time by providing written notice to Consultant. If the Contract is terminated for convenience, UTA shall pay Consultant: (i) in full for Goods delivered and Services fully performed prior to the effective date of termination; and (ii) an equitable amount to reflect costs incurred (including Contract close-out and subconsultant termination costs that cannot be reasonably mitigated) and profit on work-in-progress as of to the effective date of the termination notice. UTA shall not be responsible for anticipated profits based on the terminated portion of the Contract. Consultant shall promptly submit a termination claim to UTA. If Consultant has any property in its possession belonging to UTA, Consultant will account for the same, and dispose of it in the manner UTA directs.

b. **FOR DEFAULT:** If Consultant (a) becomes insolvent; (b) files a petition under any chapter of the bankruptcy laws or is the subject of an involuntary petition; (c) makes a general assignment for the benefit of its creditors; (d) has a receiver appointed; (e) should fail to make prompt payment to any subconsultants or suppliers; or (f) fails to comply with any of its material obligations under the Contract, UTA may, in

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its discretion, after first giving Consultant seven (7) days written notice to cure such default:

1. Terminate the Contract (in whole or in part) for default and obtain the Goods and Services using other Consultants or UTA's own forces, in which event Consultant shall be liable for all incremental costs so incurred by UTA;
2. Pursue other remedies available under the Contract (regardless of whether the termination remedy is invoked); and/or
3. Except to the extent limited by the Contract, pursue other remedies available at law.

c. **CONSULTANT'S POST TERMINATION OBLIGATIONS:**

Upon receipt of a termination notice as provided above, Consultant shall (i) immediately discontinue all work affected (unless the notice directs otherwise); and (ii) deliver to UTA all data, drawings and other deliverables, whether completed or in process. Consultant shall also remit a final invoice for all services performed and expenses incurred in full accordance with the terms and conditions of the Contract up to the effective date of termination. UTA shall calculate termination damages payable under the Contract, shall offset such damages against Consultant's final invoice, and shall invoice Consultant for any additional amounts payable by Consultant (to the extent termination damages exceed the invoice). All rights and remedies provided in this Article are cumulative and not exclusive. If UTA terminates the Contract for any reason, Consultant shall remain available, for a period not exceeding 90 days, to UTA to respond to any questions or concerns that UTA may have regarding the Goods and Services furnished by Consultant prior to termination.

d. **TERMINATION OF TASKS OR TOA**

UTA's termination rights under this Article shall apply, in UTA's discretion, to either an individual task order or the entire TOA. Where the TOA is terminated for convenience, the Consultant shall be entitled to payment in full for all tasks satisfactorily completed prior to the termination date. Where a task is terminated prior to acceptance by UTA, Consultant shall be entitled to its actual allowable and allocable costs expended to the date of termination for the terminated task.

16. INFORMATION, RECORDS and REPORTS; AUDIT RIGHTS

Consultant shall retain all books, papers, documents, accounting records and other evidence to support any cost-based billings allowable under Exhibit B (or any other provision of this Contract). Such records shall include, without limitation, time sheets and other cost documentation related to the performance of labor services, as well as subcontracts, purchase orders, other contract documents, invoices, receipts or other documentation supporting non-labor costs. Consultant shall also retain other books and records related to the performance, quality or management of this Contract and/or Consultant's compliance with this Contract. Records shall be retained by Consultant for a period of at least six (6) years after completion of the Work, or until any audit initiated within that six-year period has been completed (whichever is later). During this six-year

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period, such records shall be made available at all reasonable times for audit and inspection by UTA and other authorized auditing parties including, but not limited to, the Federal Transit Administration. Copies of requested records shall be furnished to UTA or designated audit parties upon request. Consultant agrees that it shall flow-down (as a matter of written contract) these records requirements to all subconsultants utilized in the performance of the Work at any tier.

17. FINDINGS CONFIDENTIAL

Any documents, reports, information, or other data and materials delivered or made available to or prepared or assembled by Consultant or subconsultant under this Contract are considered confidential and shall not be made available to any person, organization, or entity by Consultant without consent in writing from UTA. If confidential information is released to any third party without UTA's written consent as described above, Consultant shall notify UTA of the data breach within 10 days and provide its plan for immediate mitigation of the breach for review and approval by UTA.

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

18. PUBLIC INFORMATION.

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

19. GENERAL INDEMNIFICATION

Consultant shall indemnify and hold harmless UTA, its officers, trustees, agents, and employees (hereinafter collectively referred to as "Indemnitees") from and against all liabilities, claims, actions, damages, losses, and expenses including without limitation reasonable attorneys' fees and costs (hereinafter referred to collectively as "claims") related to bodily injury, including death, or loss or damage to tangible or intangible property to the extent caused by the negligent acts or omissions of Consultant or any of its owners, officers, directors, agents, employees or subconsultants. This indemnity includes any claim or amount arising out of the failure of such Consultant to conform to federal, state, and local laws and regulations. If an employee of Consultant, a subconsultant, anyone employed directly or indirectly by any of them or anyone for whose acts any of them may be liable

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brings a claim against UTA or another Indemnitee, Consultant's indemnity obligation set forth above will not be limited by any limitation on the amount of damages, compensation or benefits payable under any employee benefit acts, including workers' compensation or disability acts. The indemnity obligations of Consultant shall not apply to the extent that claims arise out of the sole negligence of UTA or the Indemnitees. Neither party to this Contract shall be liable to the other party or any third party claiming through the other respective party, for any special, incidental, indirect, punitive, liquidated, delay or consequential damages of any kind including but not limited to lost profits or use of property, facilities or resources, that may result from this Contract, or our of any good or services furnished hereunder.

20. INSURANCE REQUIREMENTS

Standard Insurance Requirements

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

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

1. Commercial General Liability – Occurrence Form
   Policy shall include bodily injury, property damage and broad form contractual liability coverage.
   - General Aggregate $4,000,000
   - Products – Completed Operations Aggregate $1,000,000
   - Personal and Advertising Injury $1,000,000
   - Each Occurrence $2,000,000

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

2. Automobile Liability
   Bodily Injury and Property Damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.
   Combined Single Limit (CSL) $2,000,000

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

3. Worker's Compensation and Employers' Liability

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

a. Policy shall contain a waiver of subrogation against the Utah Transit Authority.

b. This requirement shall not apply when a Consultant or subconsultant is exempt under UCA 34A-2-103, AND when such Consultant or subconsultant executes the appropriate waiver form.

4. Professional Liability (Errors and Omissions Liability)
The policy shall cover professional misconduct or lack of ordinary skill for those positions defined in the Scope of Services of this contract.

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

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

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

1. On insurance policies where the Utah Transit Authority is named as an additional insured, the Utah Transit Authority shall be an additional insured to the full limits of liability purchased by the Consultant. Insurance limits indicated in this agreement are minimum limits. Larger limits may be indicated after the consultant's assessment of the exposure for this contract; for their own protection and the protection of UTA.

2. The Consultant's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.

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C. NOTICE OF CANCELLATION: Each insurance policy required by the insurance provisions of this Contract shall provide the required coverage and shall not be suspended, voided or canceled except after thirty (30) days prior written notice has been given to the Utah Transit Authority, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to (Utah Transit Authority agency Representative's Name & Address).

D. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the State and with an "A.M. Best" rating of not less than A-VII. The Utah Transit Authority in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.

E. VERIFICATION OF COVERAGE: Consultant shall furnish the Utah Transit Authority with certificates of insurance (on standard ACORD form) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

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

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

F. SUBCONTRACTORS: Consultant' certificate(s) shall include all subconsultants as additional insureds under its policies or subconsultants shall maintain separate insurance as determined by the Consultant, however, subconsultant's limits of liability shall not be less than $1,000,000 per occurrence / $2,000,000 aggregate. Sub-consultants maintaining separate insurance shall name Utah Transit Authority as an additional insured on their policy. Blanket additional insured endorsements are not acceptable from subconsultants. Utah Transit Authority must be scheduled as an additional insured on any subconsultants policies.

G. APPROVAL: Any modification or variation from the insurance requirements in this Contract shall be made by Claims and Insurance Department or the UTA Legal Services,

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whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.

21. INTELLECTUAL PROPERTY INDEMNIFICATION

a. Consultant shall protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all Claims of any kind or nature whatsoever on account of infringement relating to Consultant's performance under this Contract. If notified promptly in writing and given authority, information and assistance, Consultant shall defend, or may settle at its expense, any suit or proceeding against UTA so far as based on a claimed infringement and Consultant shall pay all damages and costs awarded therein against UTA due to such breach. In case any portion of the Work is in such suit held to constitute such an infringement or an injunction is filed that interferes with UTA's rights under this Contract, Consultant shall, at its expense and through mutual agreement between the UTA and Consultant, either procure for UTA any necessary intellectual property rights, or modify Consultant's services or deliverables such that the claimed infringement is eliminated.

b. Consultant shall: (i) protect, release, defend, indemnify and hold harmless UTA and the other Indemnitees against and from any and all liens or Claims made or filed against UTA or upon the Work or the property on which the Work is located on account of any labor performed or labor, services, and equipment furnished by subconsultants of any tier; and (ii) keep the Work and said property free and clear of all liens or claims arising from the performance of any Work covered by this Contract by Consultant or its subconsultants of any tier. If any lien arising out of this Contract is filed, before or after Work is completed, Consultant, within ten (10) calendar days after receiving from UTA written notice of such lien, shall obtain a release of or otherwise satisfy such lien. If Consultant fails to do so, UTA may take such steps and make such expenditures as in its discretion it deems advisable to obtain a release of or otherwise satisfy any such lien or liens, and Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA in obtaining such release or satisfaction. If any non-payment claim is made directly against UTA arising out of non-payment to any subconsultant, Consultant shall assume the defense of such claim within ten (10) calendar days after receiving from UTA written notice of such claim. If Consultant fails to do so, Consultant shall upon demand reimburse UTA for all costs incurred and expenditures made by UTA to satisfy such claim.

22. INDEPENDENT CONTRACTOR

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

23. PROHIBITED INTEREST

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

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24. CLAIMS/DISPUTE RESOLUTION

a. "Claim" means any disputes between UTA and the Consultant arising out of or relating to the Contract Documents including any disputed claims for Contract adjustments that cannot be resolved in accordance with the Change Order negotiation process set forth in Article 6. Claims must be made by written notice. The responsibility to substantiate claims rests with the party making the claim.

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

c. The parties shall attempt to informally resolve all claims, counterclaims and other disputes through the escalation process described below. No party may bring a legal action to enforce any term of this Contract without first having exhausted such process.

d. The time schedule for escalation of disputes, including disputed requests for change order, shall be as follows:

Level of Authority	Time Limit
UTA's Project Manager/Consultant's Project Manager Chris Price	Five Calendar Days
UTA's Director of Capital Development/Consultant's Office Practice Lead (OPL)	Five Calendar Days
UTA's Chief Service Development Officer/Consultant's Regional Production Manager	Five Calendar Days

Unless otherwise directed by UTA's Project Manager, Consultant shall diligently continue performance under this Contract while matters in dispute are being resolved.

If the dispute cannot be resolved informally in accordance with the escalation procedures set forth above, then either party may commence formal mediation under the Juris Arbitration and Mediation (JAMS) process using a mutually agreed upon JAMS mediator. If resolution does not occur through Mediation, then legal action may be commenced in accordance the venue and governing law provisions of this contract.

25. GOVERNING LAW

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

26. ASSIGNMENT OF CONTRACT

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

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27. NONWAIVER

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

28. NOTICES OR DEMANDS

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

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

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

If to Kimley-Horn and Associates:
ATTN: Chris Price, PE
421 Fayetteville Street, Suite 600
Raleigh, NC 27601

c. Any such notice shall be deemed to have been given, and shall be effective, on delivery to the notice address then applicable for the party to which the notice is directed; provided, however, that refusal to accept delivery of a notice or the inability to deliver a notice because of an address change which was not properly communicated shall not defeat or delay the giving of a notice. Either party may change the address at which such party desires to receive written notice by providing written notice of such change to any other party.

d. Notwithstanding Section 23.1, the parties may, through mutual agreement, develop alternative communication protocols to address change notices, requests for information and similar categories of communications. Communications provided pursuant to such agreed means shall be recognized as valid notices under this Contract.

29. CONTRACT ADMINISTRATOR

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

30. INSURANCE COVEREAGE REQUIREMENTS FOR CONSULTANT EMPLOYEES ON DESIGN AND CONSTRUCTION CONTRACTS

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a. The following requirements apply to design and construction contracts to the extent that: (i) the initial value of this Contract is equal to or in excess of $2 million; (ii) this Contract, with subsequent modifications, is reasonably anticipated to equal or exceed $2 million; (iii) Consultant has a subcontract at any tier that involves a sub-consultant that has an initial subcontract equal to or in excess of $1 million; or (iv) any subcontract, with subsequent modifications, is reasonably anticipated to equal or exceed $1 million:

b. Consultant shall, prior to the effective date of this Contract, demonstrate to UTA that Consultant has and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5) for the Consultant's employees and the employee's dependents during the duration of this Contract.

c. Consultant shall also demonstrate to UTA that subconsultants meeting the above-described subcontract value threshold have and will maintain an offer of qualified health insurance coverage (as defined by Utah Code Ann. § 17B-2a-818.5for the subconsultant's employees and the employee's dependents during the duration of the subcontract.

31. COSTS AND ATTORNEYS FEES

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

32. NO THIRD-PARTY BENEFICIARY

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

33. FORCE MAJEURE

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

34. UTAH ANTI-BOYCOTT OF ISRAEL ACT

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

35. SEVERABILITY

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

36. ENTIRE AGREEMENT

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

37. AMENDMENTS

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

38. COUNTERPARTS

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

39. SURVIVAL

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

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IN WITNESS WHEREOF, the parties have made and executed this Contract as of the day, month and year of the last signature contained below.

UTAH TRANSIT AUTHORITY:

By: Date:
Jay Fox
Executive Director

By: Date:
Mary DeLoretto
Chief Service Development Officer

Approved as to Content and Form

DocuSigned by:
By: Mike Bell Date: 5/24/2023
70E33A415BA44F6...
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:
Travis Colledge,
UTA Project Manager

KIMLEY-HORN AND ASSOCIATES, INC:

DocuSigned by:
By: Brent Crowther Date: 5/24/2023
ACF0D3195D5E422...
Brent C. Crowther, PE
Vice President
Fed ID# 56-0885615

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EXHIBIT A – SCOPE OF SERVICES

Task Orders shall be issued using the sample format contained at Exhibit C.

All individual Task Orders that are issued to the Consultant will contain their own specific Statement of work, period of performance and not-to-exceed pricing based on the negotiated rates listed in Exhibit B. Each Individual Task Order will include a scope of services specific to the needed services which is within the scope of the statement of services contained in the RFQU.

UTA is awarding Master Tasks Ordering Agreements (MTOA) to Kimley-Horn and Associates, Inc., for the following Pools:
Pool A – Bus Stops
Pool B – End of Line facilities
Pool C – Operator Restrooms.

The Period of Performance for the Master Tasks Ordering Agreement (MTOA) shall be for one year until June 30, 2024, with four – one-year options. Task Orders will be issued as needed.
Overall management of the MTOA and Task Orders will be under the direction of UTA through the Capital Development office. Work by the selected Consultant shall be in conformance with the pricing, schedule, staffing plan, and budget included in the MTOA and the individual Task Orders.

The Consultant is expected to perform and fulfill the following activities and requirements for Utah Transit Authority.

The Consultant will work closely with the UTA Project Manager, UTA's Program Manager, UTA engineering and operations staff, and requisite project stakeholders to accomplish the as-needed design services as listed in the Scope of Work and in accordance with UTA's procedures.

Pool A - Bus Stop Designs - UTA has guidelines for bus stop designs from Level 1 8'x8' pad up to Level VI 40' x 15' footprint. Bus Stop Levels I-VI are in Appendix VI Bus Stops Design by Level. Right-of-way services and acquisition may be required to design bus stops. Fiber for digital real-time signage is optional and may be added depending on location. Follow the most recent UTA Design Criteria for all civil elements.

Pool B - End of Line Facilities - Include bus sawtooths, bus circulation area, operator restrooms, wayfinding, bike parking, benches, bus shelters, utility, and site civil work including access. Bus charging and dedicated via rideshare parking is optional and may be added depending on location. Follow the most recent UTA Design Criteria for all civil elements.

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Pool C - Operator Restrooms - Will be located at UTA hubs or at a EOL facilities. These are prefabricated buildings that sit on a concrete foundation with 2 or 3 restrooms and a break room. Utilities needed are electrical, sewer, and water. Follow the most recent UTA Design Criteria for all civil elements.

The Designer shall provide the necessary professional engineers; right-of-way acquisition agents; surveyors; and other staff with professional and technical skills, materials, supplies, and services other than those specifically provided by UTA, required to successfully complete this Scope of Work to meet the Project Goals.

Project Goals are:

1. Prepare high quality design packages for bus system enhancement projects to a level ready to be issued for construction.
2. Coordinate stakeholder engagement and obtain necessary plan reviews and approvals required for project permitting. Include designer dispositions showing all comments are resolved including stakeholder approval.
3. Provide the issue for construction package with a cost estimate and summary of stakeholder comments.
4. Provide design consultant support services through the completion of construction projects.

The actual services to be provided shall be described in specific Task Orders. Major work elements anticipated under this MOTA include the following items:

1. Project Management, Administration, and Coordination
2. Design/Engineering Services
3. Agency Coordination Support
4. Public Outreach Support (as needed)

Each Task Order will contain an appropriate schedule showing the completion of the scope of work. The schedule will contain detail consistent with the complexity of the project.

Project Management, Administration, and Coordination

The Designer shall be capable of and prepared to provide project management, administration, and coordination services as necessary to gather and direct a qualified team, conduct meetings, track and resolve issues, and conduct other supervisory services commensurate with the given task order.

Design/Engineering Services

The Designer shall prepare design in accordance with UTA standards and specifications and appropriate jurisdictional roadway design standards unless design waivers and deviations are approved. The Designer will be responsible for development of final engineering level engineering drawings. This engineering development could start with preliminary designs at a level of 10% to 30% depending on the Task Order.

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The Program Manager Services Consultant (PMSC) will assist UTA with oversight of the engineering process.

It is anticipated that design will include but is not limited to:

- Civil and site development design
- Structural design including retaining walls.
- Geotechnical analysis
- Drainage design
- Utilities
- Electrical Engineering
- Architectural design
- Survey and mapping
- Right-of-way including acquisition (as needed)
- Earthwork and Grading
- Bus Stop Design
- Maintenance of Traffic
- Quantities and estimating

In addition to anticipated design disciplines listed above, the Designer shall consider and anticipate including the following elements in the completion of design:

- Schedule
- Quality Control
- Design Criteria
- Specifications
- Environmental Permits
- Value Engineering
- Design Services During Construction
- As-Built Drawings

Public Outreach and Agency Coordination Support

Public outreach appropriate for the level of design services will be managed by the UTA Public Community Engagement Office and coordinated with the PMSC.

The Designer(s) shall be prepared to support UTA and the PMSC with public outreach and agency coordination.

The Designer(s) will coordinate with UTA to provide timely and accurate project information.

The Designer(s) shall support UTA and PMSC with coordination with requisite stakeholders. The Designer(s) shall participate in stakeholder coordination meetings, as needed per Task Order. Project stakeholders may include representatives from the Utah

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Department of Transportation (UDOT), municipalities, and other agencies to be determined.

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EXHIBIT B – PRICING

23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet

No	Firm	Prime	Sub	Last Name	First Name	Discipline/Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
Proposed										
1	Kimley-Horn and Associates	X		Price	Chris	PM	$68.92	194.38%	10%	$223.18
2	Kimley-Horn and Associates	X		Crowther	Brent	PIC/Multimodal Integration	$90.07	194.38%	10%	$291.66
3	Kimley-Horn and Associates	X		Matern	John	Transit Design	$73.35	194.38%	10%	$237.53
4	Kimley-Horn and Associates	X		Risano	Amanda	Site Civil	$63.86	194.38%	10%	$206.79
5	Kimley-Horn and Associates	X		Erickson	Lars	Landscape Architecture	$65.54	194.38%	10%	$212.23
6	Kimley-Horn and Associates	X		Turner	Derrick	Drainage	$57.81	194.38%	10%	$187.21
7	Kimley-Horn and Associates	X		Colombo	Mike	Electrical	$79.25	194.38%	10%	$256.64
8	Kimley-Horn and Associates	X		Amado	Gabrielle	ATMS/ITS	$52.25	194.38%	10%	$169.19
9	Kimley-Horn and Associates	X		Emmons	Sam	MOT/Constructability/Estimating	$55.73	194.38%	10%	$180.48
10	Kimley-Horn and Associates	X		Gresham	Teresa	Environmental	$86.08	194.38%	10%	$278.74
11	Kimley-Horn and Associates	X		Herrick	Christine	Building Structures	$64.62	194.38%	10%	$209.24
13	KCI Technologies		X	Ritchie	Elisha	PM	$63.00	166.90%	10%	$184.96
14	KCI Technologies		X	Sowers	Jeff	PE	$74.00	166.90%	10%	$217.26
15	KCI Technologies		X	Taylor	Seth	Technician	$36.06	166.90%	10%	$105.87
16	KCI Technologies		X	Tinkler	George	Technician	$32.45	166.90%	10%	$95.27
	KCI Technologies		X	Pavlowski	Dena	Drafter	$33.04	166.90%	10%	$97.00
17	Meridian Engineering		X	Nadeau	Michael	Survey Manager / PLS, CFeds PM	$70.00	172.72%	10%	$209.99
18	Meridian Engineering		X	Baron	Tyler	Right of Way Manager / PLS	$68.00	172.72%	10%	$203.99
19	Meridian Engineering		X	Daley	Travis	Right of Way Design / PLS	$55.00	172.72%	10%	$165.00
20	Meridian Engineering		X	Jensen	Travis	Right of Way Design / PLS	$57.00	172.72%	10%	$171.00

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23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet (CONTINUED)

No	Firm	Prime	Sub	Last Name	First Name	Discipline/Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
Proposed										
21	Meridian Engineering		X	Evans	Tammy	Right of Way Acquisition / Real Estate Agent	$52.00	172.72%	10%	$156.00
22	Meridian Engineering		X	Mortensen	Brad	QA/QC Manager / PLS	$56.00	172.72%	10%	$168.00
23	Meridian Engineering		X	Marble	Freeman	Surveyor Crew Chief / sUAV	$42.00	172.72%	10%	$126.00
24	Meridian Engineering		X	Denham	Gus	ROW Drafter	$42.00	172.72%	10%	$126.00
25	Meridian Engineering		X	Hickman	Robert	ROW Title Specialist/Drafting Support	$39.00	172.72%	10%	$117.00
26	Meridian Engineering		X	Maumalanga	Jeff	ROW Drafter	$31.00	172.72%	10%	$93.00
27	Meridian Engineering		X	Bippes	Geoff	Surveyor Crew Chief	$30.00	172.72%	10%	$90.00
28	Meridian Engineering		X	Butler	Heather	Surveyor Crew Chief / sUAV	$35.00	172.72%	10%	$105.00
29	Meridian Engineering		X	Boehmer	Brian	LiDAR Surveyor	$39.00	172.72%	10%	$117.00
30	Meridian Engineering		X	Williams	Travis	Survey / CADD Design	$38.00	172.72%	10%	$114.00
31	Meridian Engineering		X	Sykes	Miles	Surveyor	$33.00	172.72%	10%	$99.00
32	Meridian Engineering		X	Holtz	Sierra	Survey / CADD Design	$27.00	172.72%	10%	$81.00
33	Meridian Engineering		X	Neu	Timothy	Surveyor	$22.00	172.72%	10%	$66.00
34	Meridian Engineering		X	Atkinson	Levi	Surveyor	$20.00	172.72%	10%	$60.00
35	Meridian Engineering		X	Oborn	Brandon	Surveyor	$22.00	172.72%	10%	$66.00
36	Meridian Engineering		X	Fenn	Regan	ROW Drafting Support	$25.00	172.72%	10%	$75.00
37	Meridian Engineering		X	Hughes	Kim	Survey Technician	$24.00	172.72%	10%	$72.00
38	Meridian Engineering		X	Wright	Zachary	Survey Technician	$22.00	172.72%	10%	$66.00
39	MHTN Architects		X	Wallace	J Ryan	Principal Architect	$70.00	189.50%	10%	$222.92
40	MHTN Architects		X	Milillo	Joe	Architect / Project Manager	$59.50	189.50%	10%	$189.48
41	MHTN Architects		X	Drake	Matthew	Architectural Support / BIM	$52.00	189.50%	10%	$165.59
42	Ninyo & Moore		X	Elison	Eric	Principal	$76.72	137.19%	10%	$200.17

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23-03685VW Bus System Enhancement "Labor Cost" Rate Proposal Sheet (CONTINUED)

No	Firm	Prime	Sub	Last Name	First Name	Discipline/Classification	Basic Hourly Rate	Overhead	Fee	Fully Burdened Bill Rate
Proposed										
43	Ninyo & Moore		X	Gambrell	Robert	PM	$45.42	137.19%	10%	$118.50
44	Ninyo & Moore		X	Spendlove	Joseph	Staff Geologist	$29.02	137.19%	10%	$75.72
45	Ninyo & Moore		X	Salinas	Edgar	Staff Engineer	$32.31	137.19%	10%	$84.30
46	Ninyo & Moore		X	Long	Reggie	Laboratory Manager	$32.31	137.19%	10%	$84.30
47	Ninyo & Moore		X	Morin	Colin	Laboratory Technician	$27.30	137.19%	10%	$71.23

* Unit prices are for hourly labor only. Additional costs associated with SUE or similar field work will be billed as unit costs

**Kimley-Horn rates are based on anticipated salary adjustments effective July 1st, 2023.

Kimley-Horn and Associates, Inc., KCI Technologies, Meridian Engineering, MHTN Architects, Ninyo & Moore, have annual rate adjustment that occurs July 1st of each year starting in 2023: * Annual escalation of 3%.

CONTRACT PRICING STRUCTURE

For the avoidance of doubt, this contract is a firm fixed price labor hour contract. The labor rates for the various categories of labor to be used under this contract are loaded with overhead, profit and G&A and are fixed for the life of the contract subject to a yearly 3% escalation factor. This contract has a total Not-To-Exceed amount of $500,000 for year one. Additional NTE amounts shall be established for each option year at the time of exercise.

DocuSign Envelope ID: EFF5BC86-A329-4048-B279-4EB6DBE2105B

EXHIBIT C – TASK ORDER TEMPLATE

TASK ORDER NO. _____

TASK ORDER NAME: _____

This is Task Order No. _____ to Contract No. _____ entered into by and between Utah Transit Authority (UTA) and _____, (Consultant) as of _____, _____, 2023

This Task Order is part of the above-described Contract and is governed by the terms thereof.
The purpose of this Task Order is to specifically define the scope, schedule, lump sum price, or not-to-exceed and other terms applicable to the work identified herein.
UTA and Consultant hereby agree as follows:

1.0 SCOPE OF SERVICES

The scope of work for this Task Order _____ is hereby attached and incorporated into this Task Order.

2.0 SCHEDULE

The Substantial Completion Date for this Task is _____, ____, 202_. The Final Acceptance Date for this Task is _____, _____, 202_.

3.0 PRICE

The not-to-exceed (select one) price for this task order is _____.
Invoices will be billed on monthly, milestone or task completion basis (select one).

4.0 APPLICABILITY OF FEDERAL FORMS AND CLAUSES

This Task Order does ☐ does not☐ [Check Applicable] include federal assistance funds which requires the application of the Federal Forms and Clauses appended as Exhibits D and E on the Contract.

5.0 IF THIS TASK ORDER IS FEDERAL FUNDS, THE DBE GOAL IS _____%.

IN WITNESS WHEREOF, this Task Order has been executed by UTA and the Consultant or its appointed representative.

Utah Transit Authority		Kimley-Horn and Associates, Inc.	
By:	Date:	By:	Date:

DocuSign Envelope ID: EFF5BC86-A329-4048-B279-4EB6DBE2105B

By: Date: By: Date:

Approved as to Content and Form

By: Date:
Mike Bell, AAG State of Utah
And UTA Legal Counsel

Reviewed & Recommended

By: Date:

UTA Project Manager

ATTACHMENT 1 – TASK ORDER STATEMENT OF WORK OR SERVICES

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Alisha Garrett, Chief Enterprise Strategy Officer
PRESENTER(S):	Kyle Brimley, IT Director

TITLE:

Contract: State of Good Repair Replacement of Network Switches and Associated Equipment (CVE Technologies Group, Inc)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Authorize the Executive Director to execute a purchase order and associated disbursements with CVE Technologies Group, Inc. for $262,949.81 to procure the selected hardware and associated software and licensing for network device replacements.

BACKGROUND:
The network switches and associated equipment currently installed on the rail lines are in need of replacement. These are life-cycle replacements in the state-of-good repair process defined in the 10-year IT strategy. The networking devices have reached their end of serviceable life and will be replaced with new equipment by the Network Support group.

DISCUSSION:
The IT Network Support Manager has budgeted this in 2023-2027 capital plan.

These forty-one (41) networking devices are part of UTA rail platform networks which support digital signage, ticket vending machines, security cameras, and additional network equipment on these platforms. These replacements are on multiple platforms across the system.

CONTRACT SUMMARY:

Contractor Name:	CVE Technologies Group, Inc.
Contract Number:	UTA # 23-03723, Cisco State of Utah Contract number: NASPO AR3227,
Base Contract Effective Dates:	6/14/2023
Extended Contract Dates:	N/A
Existing Contract Value:	N/A
Amendment Amount:	N/A
New/Total Contract Value:	$262,949.81
Procurement Method:	State of Utah Procurement Contract NASPO AR3227
Budget Authority:	2023-2027 Capital Plan

ALTERNATIVES:

Operate on un-supported hardware and operating systems.

FISCAL IMPACT:

Funding will be drawn from the capital funding projects as follows:

$242,000 - Network & Infrastructure Equipment

$20,949.81 - Server, Storage, Infrastructure Equipment and Software.

ATTACHMENTS:

UTA Purchase Order

CVE Quote

Links to Utah State Contract AR3227 with Cisco

Contract Details (utah.gov) <https://statecontracts.utah.gov/Contract/Details/AR3227-Data-Communications-Equipment-and-Services%7Cee54a2a0-8dda-4e7a-818d-f4a74b0dcbc4>

NASPO ValuePoint DataCom Utah - Cisco <https://www.cisco.com/c/en/us/solutions/industries/government/us-government-solutions-services/resources/government-contracts-funding-vehicles/state-local-government-contracts/naspo-valuepoint-datacom-AR3227/utah.html>

Portfolio Contractor - NASPO ValuePoint <https://www.naspovaluepoint.org/portfolio/data-communications-2019-2026/cisco-systems-inc/>

CVE Technologies Group, Inc 1414 S GUSTIN RD Salt Lake City UT 84104		Utah Transit Authority	PURCHASE ORDER NUMBER OG	2303723
			PO Number Must Appear On All Invoices And Shipments	
			VENDOR NUMBER	PO DATE
			1229623	5/11/2023
SEND INVOICE TO:	SHIP TO:	*An Equal Opportunity Employer*	ORDER TAKEN BY	FOB
AP@RIDEUTA.COM	ATTENTION: RECEIVING		DEREK A	*
669 W 200 S	3600 S 700 W	801-287-3008	BUYER	PAGE NUMBER
SLC, UT 84101	Salt Lake City UT 84119	www.rideuta.com	Wilson, Rick V	1 of 1

Confirmation: Do not Duplicate
Utah Transit Authority Is Tax Exempt Total PO Value: 262,949.81 Ship as soon as possible. Early Shipments Allowed

LINE #	REQ #	CONFIRMED DELIVERY DATE	QUANTITY	PART NUMBER ACCOUNT CODE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
2	00011897	5/11/23	1 EA	40-2201.68912	SGR Network Equpment Terrie Gavin	20949.8100	20,949.81
3	00011897	5/11/23	EA	40-2179.68912	SGR Network Equpment Terrie Gavin	242000.0000	242,000.00

This Purchase Order is contingent on UTA Board of Trustees Approval on or about 5/14/2023.

Unless otherwise expressly agreed in a written document executed by Utah Transit Authority ("UTA"), this Purchase Order is subject to UTA's standard terms and conditions revision date: September 2020, effective as of the date of this Purchase Order. UTA's standard terms and conditions are found at https://rideuta.com/-/media/Files/Home/Terms_Conditions_UTAGeneralStandard7821.ashx. *Vendor's acceptance of this Purchase Order is limited to the express terms of UTA's standard terms and conditions, without modification. Vendor's delivery of the Goods or commencement of performance of Services identified in this Purchase Order are effective modes of acceptance. Any proposal for additional or different terms or any attempt by Vendor to vary in any degree any of the terms of the Contract, are hereby objected to and rejected (and this Purchase Oder shall be deemed accepted by Vendor without the additional or different terms).*

If this Purchase order is purchased using a State Contract, then terms and conditions are pursuant to that State Contract.

CVE Technolgies Group, Inc
1338 Gustin Rd
Salt Lake City UT 84104
(801) 908-6666
FAX (801) 880-3144

QUOTE

Quote #	CVEQ78361
Date	03/01/23
Sales Rep	Derek Anderson
Phone #	801-908-2676
Email :	derek.anderson@cvetech.com

Quote To:

Utah Transit Authority
Terrie Gavin
3600 S. 700 W.
Salt Lake City, UT 84130-0810

Ship To:

Utah Transit Authority
Terrie Gavin
3600 S. 700 W.
Salt Lake City, UT 84130-0810

Qty	Part Number	Description	Price	Ext. Price
		Bulk Promo Prices and Cisco Learning Credits are valid until 3-31-2023		
41	IE-4010-16S12P	IE4010 w/ 12GE SFP, 12GE Copper PoE+ & 4GE SFP uplink ports	$4,427.09	$181,510.69
41	CON-SNT-E401016S	SNTC-8X5XNBD IE4010 16x1G SFP and	$672.37	$27,567.17
41	IOT-MASS-TRANSIT	Mass Transit; For tracking only.	$0.00	$0.00
41	PWR-RGD-AC-DC-250	Higher PoE, 250W PSU for IE4010/5000, 100-240VAC/100-250VDC	$816.43	$33,473.63
41	IE4010_SW	Software for IE4010 rugged series switch	$0.00	$0.00
41	IOT-TRANSPORTATION	Transportation Industry Solutions; For tracking only.	$0.00	$0.00
		SubTotal		$242,551.49
		Cisco SFP Option		
82	GLC-LH-SMD=	1000BASE-LX/LH SFP transceiver module, MMF/SMF, 1310nm, DOM	$248.76	$20,398.32
		SubTotal		$20,398.32
1	Cisco CLC	No Cost Cisco Learning Credits for Cisco Live	$0.00	$0.00

Qty	Part Number	Description	Price	Ext. Price

SubTotal	$262,949.81
Total	**$262,949.81**

Authorization:

Name: _____ Date: _____

Signature: _____ P.O # _____

UTAH STATE CONTRACT INFORMATION:
*Cisco State of Utah Contract number: NASPO AR3227.

Currently, we are experiencing significant price increases and shipping delays from material and equipment due to market conditions outside of our control, CVE can only guarantee prices for no more than 30 days.

There is an additional 3% processing fee for Credit Card orders TAX and SHIPPING CHARGES will be billed on the invoice, and may not be reflected on the quote.

This quote represents a formal contact when signed and dated by an authorized party.

PRODUCTS MUST BE RETURNED WITHIN 30 DAYS OF DATE OF PURCHASE
All product returns require prior manufacturer authorization. A return to manufacturer authorization (RMA) must be requested, completed, and approved before a return is authorized. Many items are not returnable after 30 days or if the manufacturer box has been opened.
FOR SUBSCRIPTION ORDERS: SUBSCRIPTION CANCELLATIONS/NON RENEWALS REQUIRE 45 DAYS ADVANCE NOTICE
Not withstanding any contrary terms in the Cisco End User License Agreement, the Cisco Click-Accept Agreement or any Third Party License Agreement, upon acceptance of the foregoing Quote, Customer shall be bound to pay to CVE all charges specified above for the full term quoted, whether Customer determines to cease using the software or otherwise abandons its use. If either party initiates legal action to enforce the contract created by acceptance of this Quote, the prevailing party shall be entitled to recover all costs of collection, including reasonable attorney's fees.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO: Board of Trustees
THROUGH: Cherryl Beveridge
FROM: Cherryl Beveridge, Chief Operating Officer
PRESENTER(S): Guy Miner, Facilities Maintenance Manager

TITLE:

Contract: Timpanogos Bus Bay 4 Lift Replacement (Stertil-Koni USA, Inc.)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Approve purchase order 17041 and authorize the Executive Director to execute the contract and associated disbursements with Stertil-Koni USA, Inc. to replace Timpanogos Bay 4 Bus Lift in the amount of $455,294.29.

BACKGROUND:
The bus lift/hoist in Bay 4 at Timpanogos has exceeded its useful life and is beyond economical repair and needs to be replaced. Stertil-Koni has identified a suitable replacement. The cost will be $455,294.29.

DISCUSSION:

UTA Staff is requesting approval of purchase order 17041 to replace the bus lift in bay 4 at Timpanogos with a new unit installed by Stertil-Koni in the amount of $455,294.29. The scope of the contract includes removing the existing in-ground, rotary three-post lift and its associated hydraulic lines and replacing it with a new Diamond 96CR-10-10, lift with a single fixed post and two movable posts. This unit will be of equal capacity as the unit being replaced. It will be equipped with a new sump pump, Quick Turn for tandem axles, a wired remote control, and an automatic wheelbase positioning system. The concrete will be cut to remove the old Bay 4 lift. New, 7 bag concrete will be poured over a new vapor barrier to accommodate the new unit. All existing plumbing, trenches, drain, connections, and cleanouts will be preserved. Stertil-Koni will coordinate with UTA on the time frame for demolition and

construction and the arrival time of the lift to mitigate the time the bay will be down for construction. UTA shall have a two-year warranty on all work and materials performed and factory warranty on the lift and associated parts of 2 years.

This lift replacement has been identified as a 2023-2027 Capital Plan. This purchase from Stertil-Koni will be made under the State Contract #PA4107 (expires March 31, 2028).

CONTRACT SUMMARY:

Contractor Name:	Stertil-Koni USA, Inc.
Contract Number:	17041
Base Contract Effective Dates:	6/14/2023
Extended Contract Dates:	N/A
Existing Contract Value:	N/A
Amendment Amount:	N/A
New/Total Amount Contract Value:	$455,294.29
Procurement Method:	State Contract PA4107
Budget Authority:	Local/2023 Facilities Capital Budget

ALTERNATIVES:

There are no viable alternatives. The lift offered by Stertil-Koni is a complete, turn-key system. Systems from other manufacturers would be custom-built using available parts and components. Along with increased lead times, this increases the cost of the project due to engineering, manufacturing, and assembly time.

FISCAL IMPACT:

Budgeted in the 2023-2027 Capital Plan for the Facilities Managed Reserve

ATTACHMENTS:

1) Purchase Order
2) Link to State Contract PA4107 - https://statecontracts.utah.gov/Contract/Details/pa4107-Auto-Parts-and-Repair%7Cb4805832-5a8f-450b-9108-c6fb5b709c18

DocuSign Envelope ID: B70FBAF0-37E7-491A-9427-9DDFC763DD33

STERTIL KONI USA INC.
200 Log Canoe Circle
Stevensville MD 21666

UTA

Utah Transit Authority

An Equal Opportunity Employer

PURCHASE ORDER NUMBER	
OG	17041

PO Number Must Appear On All Invoices And Shipments

VENDOR NUMBER	PO DATE
1204653	5/12/2023

SEND INVOICE TO:	SHIP TO:	ORDER TAKEN BY	FOB
AP@RIDEUTA.COM	ATTENTION: RECEIVING	KELLY	*
669 W 200 S	1110 Soth Geneva Road	BUYER	PAGE NUMBER
SLC, UT 84101	Orem UT 84058		1 of 1

801-287-3008
www.rideuta.com

Confirmation: Do not Duplicate
Utah Transit Authority Is Tax Exempt Total PO Value: 455,294.29 Ship as soon as possible. Early Shipments Allowed

LINE #	REQ #	CONFIRMED DELIVERY DATE	QUANTITY	PART NUMBER ACCOUNT CODE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	00011947	10/31/23	1 EA	40-1653.63000.3003	Bus Lift Replacement Bay 4 96CR-10-10Sys Timp Johnny J	333202.2900	333,202.29
2	00011947	10/31/23	1 LT	40-1653.63000.3003	Installation - Diamondlift For Timp-Orem 3200 Johnny J	16000.0000	16,000.00
3	00011947	10/31/23	1 LT	40-1653.63000.3003	Civil Work - Concrete, Hydraul remove & replace Timp-Orem JJ	92092.0000	92,092.00
4	00011947	10/31/23	1 LT	40-1653.63000.3003	Freight Charge - S&H For Timp-Orem 3200 Johnny J	14000.0000	14,000.00

TAX EXEMPT SERVICE ORDER - UTA TAX EXEMPT CERT# 11991324-200-STC

*** Reference attached (2 docs) Utah State Contract PA4107 (NASPO CW7260), and Stertil-Koni Quote 310 dated 05/12/2023 ***
UTA standard Terms and Conditions referenced in this P.O. take precedence over the Stertil-Koni terms and conditions.
Reference Utah State Contract PA4107 (NASPO CW7260)
All pricing based on Utah State Contract PA4107 and Quote 310 dated 05/12/23
Total Order Price $455,294.29 for On-Site Service to include Material, Labor for Removal & Replacement, & Installation Services to be provided by Stertil-Koni in accordance with attached Quote 310 dated 05/12/23
Stertil-Koni / Rocky Mountain Lifts to provide Certificate of Insurance (COI) prior to On-Site Services

DELIVERY ON OR BEFORE 10/31/23

SITE SERVICE LOCATION:
Utah Transit Authority – Timp-Orem 3200 Facility
1110 South Geneva Road
Orem, UT 84058
Contact: Johnny Johnson o 801-287-5031 / c 801-557-7637 jjohnson@rideuta.com to schedule onsite service
Requestor: Johnny Johnson o 801-287-5031 / c 801-557-7637 jjohnson@rideuta.com
RSS: 11947-OU-00001 for 3800 Facilities – Timp Bay 4 Bus Hoist R/R

Ship Method: Ground / Supplier Truck (Prepay and Add (PPA) to Invoice
FOB: Destination UTA – SLC, UT
Payment Terms: Net30
Supplier POC: BOBBY LAWSON 801-372-1294 bobby@rockymountainlifts.com
Ref Quote: Stertil-Koni Quote 310 dated 05/12/23
Contract Buyer: Brent Miller v deuta.com

UTA SIGNATURE APPROVAL:
Tim Merril or Mike Bell
(Utah Attorney General)

DocuSigned by:
Tim Merrill
56A03BC7C491482...

Date: 5/24/2023

Unless otherwise expressly agreed in a written document executed by Utah Transit Authority ("UTA"), this Purchase Order is subject to UTA's standard terms and conditions revision date: September 2020, effective as of the date of this Purchase Order. UTA's standard terms and conditions are found at https://rideuta.com/-/media/Files/Home/Terms_Conditions_UTAGeneralStandard7821.ashx. Vendor's acceptance of this Purchase Order is limited to the express terms of UTA's standard terms and conditions, without modification. Vendor's delivery of the Goods or commencement of performance of Services identified in this Purchase Order are effective modes of acceptance. Any proposal for additional or different terms or any attempt by Vendor to vary in any degree any of the terms of the Contract, are hereby objected to and rejected (and this Purchase Oder shall be deemed accepted by Vendor without the additional or different terms).

If this Purchase order is purchased using a State Contract, then terms and conditions are pursuant to that State Contract.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Cherryl Beveridge, Chief Operating Officer
PRESENTER(S):	Guy Miner, Facilities Maintenance Manager

TITLE:

Contract: TRAX & Frontrunner Park-n-Ride Lots Asphalt Preservation - Seal Coating and Striping (Sumsion Construction DBA Eckles Paving)

AGENDA ITEM TYPE:
Procurement Contract/Change Order

RECOMMENDATION:
Approve purchase order 17048 and authorize Executive Director to execute a contract and associated disbursements in the amount of $231,062.04 with Sumsion Construction, LC dba Eckles Paving to perform asphalt preservation.

BACKGROUND:
The parking lots identified below require maintenance in order to preserve and extend serviceability and useful life. Sumsion Construction, LC dba Eckles Paving, a State Contract holder, has been selected to perform the work.

DISCUSSION:
UTA Staff is requesting approval of purchase order 17048 to preserve the following UTA parking lots by repairing cracks, sealing, coating, and restriping.

Orem Frontrunner, 1350 West 900 South Orem UT.

Draper Town Center, 1131 East Pioneer Road. Draper UT.

Kimballs Lane, 11796 South 700 East Sandy UT.

Crescent View, 361 East 1400 South Sandy UT.

Murray Central TRAX, 5144 South Cottonwood Street, Murray UT

The work will be done by Sumsion Construction, LC dba Eckles Paving for $231,062.04 though State of Utah Contact No #MA3181 (expires April 18, 2024).

The scope of work includes seal coating with **Onyx Frictional Mastic Surface Treatment** or equivalent. All cracks will be filled and sealed to match asphalt elevation; cracks greater than 1/8" will be filled with hot pour crack filler. Crack seal will be installed around all concrete to asphalt transitions to avoid cratering. The contractor will apply two coats of Onyx or equivalent, repaint all parking stalls and ADA stalls, cross walks, and curbs with two coats of DOT Spec paint on the entire parking lot station surface, to include paint on concrete bus areas. Paint color will be matched at each station. The contractor will accommodate UTA customers by only doing ½ to 1/3 of the area at a time or do the work on the weekend. Four days must be allowed between sealant applications in high traffic lots/areas before moving to next area. The contractor will be responsible for installing safety cones to block off areas to be coated and painted. The contractor will place cones and caution tape in the areas to be coated and will be responsible for replacing any signage moved during the project. The contractor will work with UTA Facilities to schedule each parking lot for renovation.

This preservation project has been identified as a 2023 RSS project (12137) and is funded in the 2023 Facilities budget.

CONTRACT SUMMARY:

Contractor Name:	Sumsion Construction, LC dba Eckles Paving
Contract Number:	17048
Base Contract Effective Dates:	6/14/2023 - 9/15/2023
Extended Contract Dates:	NA
Existing Contract Value:	NA
Amendment Amount:	NA
New/Total Contract Value:	$231,062.04
Procurement Method:	RFQ- State Contract MA 3181
Budget Authority:	2023-2027 Capital Plan

ALTERNATIVES:

There are no suitable alternatives. The overall condition of lots is good. They do not require repaving. Repairing cracks, resealing the surface, and restriping is the only proper and cost-effective method of preservation.

FISCAL IMPACT:

Funds for the project were planned for in the 2023-2027 Capital Plan

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ATTACHMENTS:

1) Purchase Order
2) Link to State Contract MA3181 - https://statecontracts.utah.gov/Contract/Details/MA3181-

Construction-Management-Services%7C44b153af-4042-4e3d-967d-c90dc4b70fdd

DocuSign Envelope ID: A5FA7ABB-566E-41DC-98C2-BF0023E351DD

SUMSION CONSTRUCTION LC
PO BOX 68
Springville UT 84663

Utah Transit Authority

An Equal Opportunity Employer

PURCHASE ORDER NUMBER	
OG	17048

PO Number Must Appear On All Invoices And Shipments

VENDOR NUMBER	PO DATE
1402592	5/25/2023

SEND INVOICE TO:	SHIP TO:	ORDER TAKEN BY	FOB
AP@RIDEUTA.COM	ATTENTION: RECEIVING	MIKE B	*
669 W 200 S	3600 S 700 W	801-287-3008	BUYER / PAGE NUMBER
SLC, UT 84101	Salt Lake City UT 84119	www.rideuta.com	Miller, Brent / 1 of 1

Confirmation: Do not Duplicate
Utah Transit Authority Is Tax Exempt Total PO Value: 231,062.04 Ship as soon as possible. Early Shipments Allowed

LINE #	REQ #	CONFIRMED DELIVERY DATE	QUANTITY	PART NUMBER ACCOUNT CODE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1	00012137	9/15/23	1 EA	40-1672.64000.4007	Crack Seal & Sealcoat P&R Lots for Five Trax Loc - J. Johnson	231062.0400	231,062.04

TAX EXEMPT SERVICE ORDER - UTA TAX EXEMPT CERT# 11991324-200-STC

*** Reference attached (7 docs) Utah State Contract MA3181, Sumsion Construction LC Quotes MB23039, MB23040, MB23041, MB23042, and MB23045 and UTA Scope of Work ***
Utah State Contract MA3181 Terms and Conditions referenced in this P.O. take precedence over the Sumsion Construction LC's terms and conditions.
Reference Utah State Contract MA3181 Expires April 18, 2024

Terms and Conditions based on Utah State Contract MA3181
Total Order Price $231,062.04 based on Quotes MB23039, MB23040, MB23041, MB23042, and MB23045 for On-Site Service to include Material and Labor to perform Asphalt Preservation Services for UTA's Trax Park & Ride lots in accordance with attached Quotes and UTA's Scope of Work.
Sumsion Construction LC dba Eckles Paving to provide Certificate of Insurance (COI) prior to On-Site Services

SERVICE DELIVERY ON OR BEFORE 09/15/23

SITE ATTACHED SCOPE OF WORK FOR SERVICE REQUIREMENTS

SITE SERVICE LOCATION:		PRICE
1.	Quote MB23040 - Orem FrontRunner, 1350 West 900 South Orem UT.	$48,505.87
2.	Quote MB23041 - Draper Town Center, 1131 East Pioneer Road. Draper UT.	$45,455.61
3.	Quote MB23042 - Kimballs Lane, 11796 South 700 East Sandy UT.	$31,117.56
4.	Quote MB23039 - Crescent View, 361 East 1400 South Sandy UT.	$22,875.45
5.	Quote MB23045 - Murray Central Trax, 5144 South Cottonwood Street, Murray UT.	$83,107.55

Project Manager Contact: Johnny Johnson o 801-287-5031 / c 801-557-7637 jjohnson@rideuta.com to schedule onsite service
Requestor: Johnny Johnson o 801-287-5031 / c 801-557-7637 jjohnson@rideuta.com
RSS: 12137-OU-00001 for 3800 Facilities – P&R Lots, Asphalt Preservation

Ship Method:	Ground / Supplier Truck (Prepay and Add (PPA) to Invoice
FOB:	Destination UTA – SLC, UT
Payment Terms:	Net30
Supplier POC:	Mike Bennion c 801-473-6590 / o 801-225-3715 mike@ecklespaving.com
Ref Ouote:	MB23039, MB23040, MB23041, MB23042, and MB23045 dated 4/21/23 & 4/26/23
Contract Buyer:	Brent Miller wk 801-287-3009 brmiller@rideuta.com

UTA SIGNATURE APPROVAL:
Mike Bell
(Utah Attorney General)

DocuSigned by:
Mike Bell
70E33A415BA44F6...

Date: 5/25/2023

Unless otherwise expressly agreed in a written document executed by Utah Transit Authority ("UTA"), this Purchase Order is subject to UTA's standard terms and conditions revision date: September 2020, effective as of the date of this Purchase Order. UTA's standard terms and conditions are found at https://rideuta.com/-/media/Files/Home/Terms_Conditions_UTAGeneralStandard7821.ashx. Vendor's acceptance of this Purchase Order is limited to the express terms of UTA's standard terms and conditions, without modification. Vendor's delivery of the Goods or commencement of performance of Services identified in this Purchase Order are effective modes of acceptance. Any proposal for additional or different terms or any attempt by Vendor to vary in any degree any of the terms of the Contract, are hereby objected to and rejected (and this Purchase Oder shall be deemed accepted by Vendor without the additional or different terms).

If this Purchase order is purchased using a State Contract, then terms and conditions are pursuant to that State Contract.

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Dave Hancock, Director of Capital Development
PRESENTER(S):	Janelle Robertson, Project Manager III

TITLE:

Contract: Shepard Lane Interchange - Double Tracking Construction Betterment Agreement (Utah Department of Transportation)

AGENDA ITEM TYPE:
Non-Procurement Agreement

RECOMMENDATION:
Approve the Utah Department of Transportation (UDOT) Double Tracking Construction Betterment Agreement as part of UDOT's new Shepard Lane Interchange project and authorize the Executive Director to execute the agreement and associated disbursements in the amount of $3,576,341.42 .

BACKGROUND:
In 2019, UDOT requested that UTA review and comment on the Environmental Assessment (EA) document which was being prepared for a new I-15 Interchange located in Davis County at Shepard Lane. Shortly after UTA provided comments on the EA, UTA was invited to participate in design coordination meetings. Several of the comments provided to UDOT dealt with the need to accommodate a future FrontRunner double-track in this location. Over the past two years, UTA has worked closely with UDOT in identifying what would be needed to accommodate this future-double track and how it would fit with the new interchange design. In 2022, UTA determined it would be significantly cheaper and more efficient if UDOT's contractor were to build the double-track section (embankment and sub-ballast) as part of the interchange project.

A previous agreement was brought to the UTA Board on January 26, 2022 to proceed with the design of the double-track section and related infrastructure items. The design is now complete and UDOT is in the process of advertising for a contractor to build the project. This new agreement is a Betterment Agreement with UDOT stating that UTA will be responsible to pay for the double-track amenities in the project.

DISCUSSION:
Signing the Betterment Agreement with UDOT will authorize UDOT's selected contractor to build UTA's future FrontRunner double-track section (embankment and sub-ballast) in the area of the new Shepard Lane Interchange. These funds are programmed in the 2023-2027 Five-year Capital Plan. A request for these funds ($3,576,341.42) will be made in the UTA 2024 Capital Budget. This will correspond to when the work will be performed and billed by UDOT.

CONTRACT SUMMARY:

Contractor Name:	Utah Department of Transportation (UDOT)
Contract Number:	23-P00264
Base Contract Effective Dates:	6/14/2023 - completion
Extended Contract Dates:	N/A
Existing Contract Value:	NA
Amendment Amount:	N/A
New/Total Contract Value:	$3,576,341.42
Procurement Method:	UDOT Procurement
Budget Authority:	UTA 5 year Capital Plan

ALTERNATIVES:
The selected UDOT contractor could build the Shepard Lane Interchange and not do any construction of the FrontRunner double-track section. Later, when needed for FrontRunner, UTA could procure their own contractor to build the double-track section and a higher cost and a significantly more complicated construction project having to build around the new interchange.

FISCAL IMPACT:
The Betterment Agreement amount requested ($3,576,341.42) is included in the 5-year capital plan, and programmed for the 2024 UTA Capital Budget.

ATTACHMENTS:
1. Double-Tracking Construction Betterment Agreement - Shepard Lane Interchange
2. Contract Exhibits A & B

DocuSign Envelope ID: 762F135F-12BA-47D4-9460-622DEAF377E1

Double Tracking Construction Betterment Agreement Utah Transit Authority **UDOT Finance No._____**	Betterment Description: **Shepard Lane Interchange** **UTA Double Tracking Construction Betterment**	Estimated Cost for the Double Tracking Construction Betterment **$3,576,341.42**
PIN Number 15684 FINET/CID Number 72703	Project Number **S-I15-7(340)325** Project Name **I-15; Shepard Lane Interchange**	Agreement Number Date Executed

THIS AGREEMENT made and entered into the date shown below, by and between the **UTAH DEPARTMENT OF TRANSPORTATION**, (**"UDOT**"), and the **UTAH TRANSIT AUTHORITY, ("UTA"),** a public transit district organized pursuant to the Utah Public Transit District Act.

Subject to the attached provisions, **UDOT** will include the following Double Tracking Construction Betterment " Betterment Work" items into the above referenced Project and will oversee the construction of the Betterment Work. Upon signing this Agreement, **UTA** agrees that the costs shown below are estimates only and that **UTA** will be responsible for paying the actual costs associated with the construction Betterment Work items, based on Contract Unit Bid Prices, and actual quantities placed.

Description of Betterment Work: Shepard Lane Interchange **UTA** Betterment Work includes work to install a retaining wall, barrier, and fill between southbound I-15 and the FrontRunner tracks to accommodate a future second FrontRunner track. The work will also include drainage, utilities, moving ATMS fiber, and accommodating an overhead sign foundation into the wall/barrier system. See the attached Scope of Work marked Exhibit "A" and Cost Estimate marked Exhibit "B," that are incorporated by reference. The estimate includes a credit for UTA to perform the tamping required for settlement caused by the Project Work.

Cost Estimate:

Bid Item No.	Description	Estimated Cost
1	Roadway	$643,045.90
2	Drainage	$100,480.00
3	Structures: Cast in Place Retaining Walls	$1,961,330.00
4	Utilities	$243,250.00
5	Contingency @10%	$294,810.59
	Subtotal	**$3,242,916.49**
6	PE Construction Engineering	$39,133.28

DocuSign Envelope ID: 762F135F-12BA-47D4-9460-622DEAF377E1

7	CE Construction Support	$147,405.30
8	Change Order Contingency @ 6.00%	$176,886.35
	Total Betterment Cost	$3,606,341.42
9	Tamping Credit (6 occurrences at $5,000 each)	($30,000.00)
	Total Estimated Cost of construction Betterment work	**$3,576,341.42**

The total actual cost of the construction Betterment Work shall be invoiced to **UTA** as the work phases are completed.

UTA shall make payment within 30 days of receiving an invoice from **UDOT**. **UTA** shall deposit the amount with **UDOT's** Comptroller's Office located at UDOT/Comptroller, 4501 South 2700 West, Box 141500, Salt Lake City 84119-1500.

Contact Information
UDOT's Consultant Resident Engineer is Ray Carter, telephone number (801) 557-2385 and e-mail ray.carter@hdrinc.com, or their designated representative, as assigned.

UDOT's Region Utility Leader is Lincoln Port telephone number (801) 620-1660, and e-mail lport@utah.gov.

Provisions
(Note: the language in these provisions shall not be changed without prior approval from the Utah AG's office)

UDOT has prepared plans, specifications and estimates of costs for the construction of the Project, hereinafter referred to as the "Project."

UTA desires to include the construction Betterment Work items described herein in the Project contract work.

UDOT is agreeable to include **UTA's** requested construction betterment work in the Project contract providing that **UTA** pays the actual additional costs incurred. **UTA** agrees that **UDOT's** Project will not be delayed as a result of adding these betterments, and that no betterments will be added to the bid package until this Agreement has been signed by both parties.

UTA, at no cost to the Project, shall provide on-call support from **UTA**'s Design Engineer or appropriate representative to correct or clarify issues during construction and to perform the necessary inspection for the **UTA** work installed by the contractor. The **UTA** engineer and/or inspector shall work with and through **UDOT**'s Project Manager or Resident Engineer and shall give no orders directly to **UDOT's** Contractor unless authorized in writing to do so. It is agreed that **UDOT**'s Contractor will accomplish the work covered herein on **UTA**'s facilities in accordance with the plans and specifications provided by **UTA**, including changes or additions to said plans and specifications which are approved by the parties hereto. **UTA**, through their inspection of said work, will provide **UDOT**'s Project Manager or Resident Engineer with information covering any problems or concerns **UTA** may have with the acceptance of said facilities upon completion of construction.

Any periodic plan and specification review or construction inspection performed by **UDOT** arising out of the performance of the Project does not relieve **UTA** of its duty in the performance of this Project or to ensure compliance with acceptable standards.

Construction Access: **UDOT**'s contractor shall be required to apply to **UTA** for a Track Access Permit to enter the **UTA** Property for the purpose of constructing or installing **UTA** Betterment Work. **UTA** will grant such Permit on reasonable

DocuSign Envelope ID: 762F135F-12BA-47D4-9460-622DEAF377E1

terms and conditions. **UDOT**'s contractor shall not enter **UTA** property without a permit.

UTA will provide temporary easements required for the **UDOT** Project and **UTA** Betterment Work.

UTA and **UDOT** will meet with the Project contractor to memorialize a three-week look ahead schedule, which will be updated weekly, for the **UDOT** Project and **UTA** Betterment Work.

UTA will provide site observation and flagging for the **UDOT** Project and **UTA** Betterment Work.

Except in cases of emergency, it is understood that access for maintenance and servicing of the **UTA** facilities located on State right of way will be by Permit issued by **UDOT** to **UTA**, and that **UTA** will obtain said Permit and abide by the conditions thereof for policing and other controls in the conformance with Utah Administrative Rules.

I. Indemnification:
UDOT and **UTA** are both governmental entities subject to the Governmental Immunity Act. Each party agrees to indemnify, defend, and save harmless the other from and against all claims, suits and costs, including attorneys' fees for injury or damage of any kind, arising out of its negligent acts, errors or omissions of its officers, agents, contractors or employees in the performance of this Agreement, and from and against all claims, suits, and costs, including attorneys' fees for injury or damage of any kind. Nothing in this paragraph is intended to create additional rights to third parties or to waive any of the provisions of the Governmental Immunity Act. The obligation to indemnify is limited to the dollar amounts set forth in the Governmental Immunity Act, provided said Act applies to the action or omission giving rise to the protections in this paragraph. The indemnification in this paragraph shall survive the expiration or termination of this Agreement.

II. **Termination:**
This Agreement may be terminated as follows:
a. By mutual Agreement of the parties, in writing
b. By either **UDOT** or **UTA** for the failure of the other party to fulfill their obligations as set forth in the provisions of this Agreement. Reasonable allowances will be made for circumstances beyond the control of the parties. Written notice of intent to terminate is required and shall specify the reasons for termination.
c. By **UDOT** for the convenience of the State upon written notice to **UTA**.
d. Upon satisfactory completion of the provisions of this Agreement.

III. Maintenance:
UTA agrees that, upon completion and final inspection of the Project construction, to accept, own and maintain the Betterment Work on top of the retaining wall and everything to the west of the retaining wall at no further cost to **UDOT.**
UDOT will maintain the retaining wall within **UDOT** right-of-way.

IV. Payment and Reimbursement to UDOT:
UTA shall be responsible for all actual costs associated with these construction items.

UTA agrees that if it modifies or cancels this construction betterment agreement at any time after it has been signed, to pay any cancellation penalties or costs incurred by **UDOT** as a result of the construction Betterment Work scope being modified or canceled.

V. Change in Scope and Schedule:
UTA recognizes that if their project scope or schedule changes from the original intent of this Agreement, the Agreement must be amended prior to proceeding with the work. Any costs incurred by **UDOT** as a result of these scope or schedule changes will be the responsibility of **UTA**.

In the event there are changes in the scope of the work, extra work, or changes in the planned work covered by this Agreement, a modification to this Agreement approved in writing by the parties hereto is required prior to the start of work on said changes or additions.

VI. Content Review:
Language content was reviewed and approved by the Utah AG's office on April 12, 2016.

IN WITNESS WHEREOF, the Agencies hereto have caused this Agreement to be executed in duplicate as of the date first herein written.

UTA APPROVED AS TO FORM:

DocuSigned by:
Tim Merrill
56A03BC7C491482...
Tim Merrill, Assistant Attorney General

Date: 5/12/2023

DocuSigned by:
Jodi Howick
150E42BB6F33495...
Jodi Howick, Assistant Attorney General

Date: 5/16/2023

UTAH TRANSIT AUTHORITY

DocuSigned by:
Dave Hancock
4D26C63DEBB416...
Dave Hancock, Director Capital Services

Date: 5/19/2023

Mary DeLoretto, Chief Capital Services Officer

Date:

Jay Fox, Executive Director

Date:

UTAH DEPARTMENT OF TRANSPORTATION

Region Director

Date:

UDOT COMPTROLLER'S OFFICE

By:
Contracts Administrator

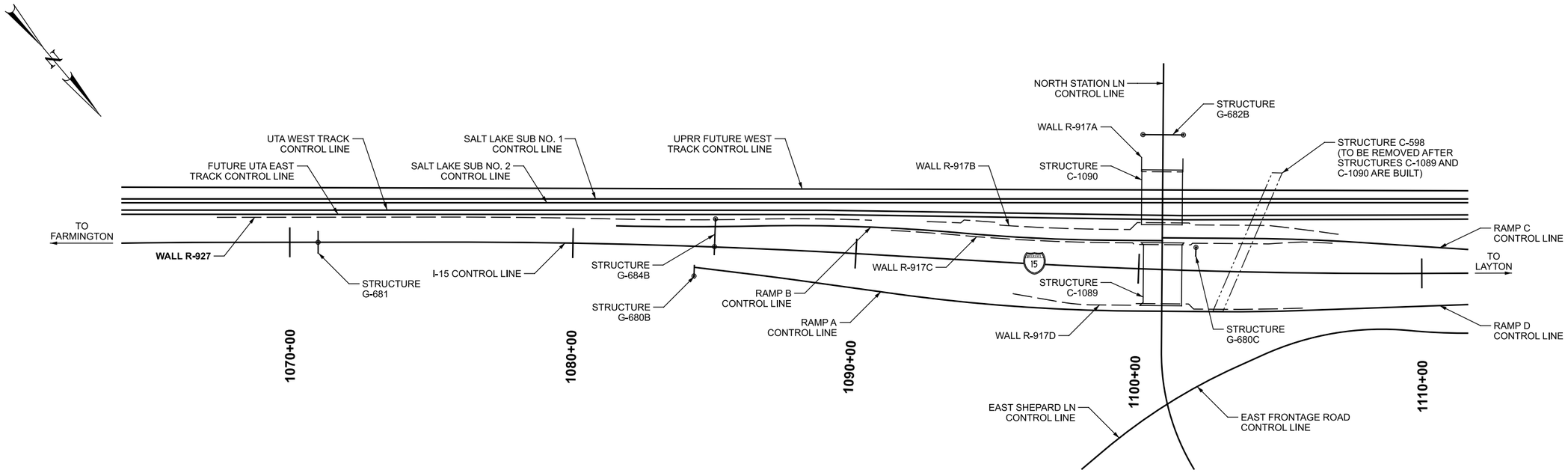
Date:

Recommended for Approval:

By:

Region Utility and Railroad Leader Date:

EXHIBIT A



LOCATION PLAN

DESIGN DATA

LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION 2020 AND THE UDOT STRUCTURES DESIGN AND DETAILING MANUAL, 2022. RAIL ROAD LIVE LOADING FOR UTA COMMUTER RAIL TRAIN IN ACCORDANCE WITH THE AREMA MANUAL FOR RAILWAY ENGINEERING, 2022.

POST HOLE CONCRETE:	f'c = 4.0 KSI	n = 8	CLASS AA(AE)	fy(REINF) = 60 KSI
PRECAST WALL PANEL AND POST CONCRETE:	f'c = 5.0 KSI	n = 7	CLASS AAA(AE)	fy(REINF) = 60 KSI

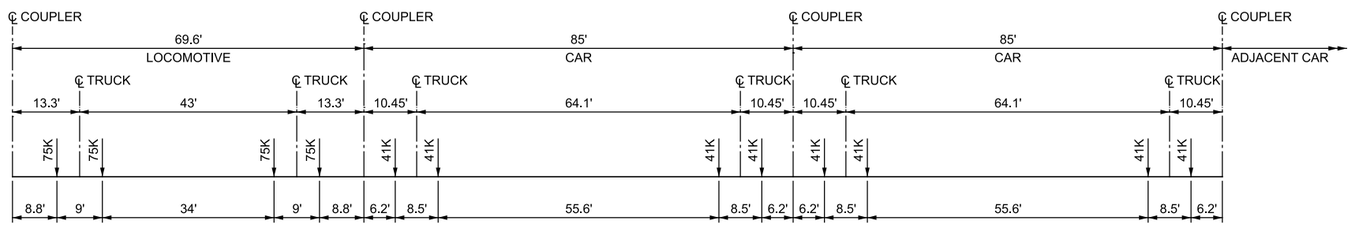
SEISMIC: 7% PROBABILITY OF EXCEEDANCE IN 75 YR DESIGN EVENT
PGA = 0.339g, Ss = 0.786g, S1 = 0.236g
As = 0.394g, SDs = 0.932g, SD1 = 0.454g
SITE CLASS D

GENERAL NOTES

1. USE COATED DEFORMED CARBON STEEL BARS CONFORMING TO AASHTO A767 OR ASTM A775, AND AASHTO M31 GRADE 60, UNLESS SHOWN OTHERWISE.
2. CHAMFER ALL EXPOSED CONCRETE CORNERS 3/4 INCH UNLESS SHOWN OTHERWISE.
3. PROVIDE 2 INCH MINIMUM CONCRETE COVER TO REINFORCING STEEL UNLESS SHOWN OTHERWISE.
4. VERIFY UTILITY LOCATIONS BEFORE CONSTRUCTION. PROTECT EXISTING UTILITIES IN PLACE UNLESS SHOWN OTHERWISE.
5. COAT OR GALVANIZE ALL MISCELLANEOUS STRUCTURAL STEEL PLACED IN STRUCTURAL CONCRETE, UNLESS SHOWN OTHERWISE.
6. DO NOT SCALE DRAWINGS. HORIZONTAL DIMENSIONS ARE PLAN. VERTICAL DIMENSIONS ARE PLUMB.
7. ALL STATIONS, OFFSETS AND ANGLE POINTS ARE LOCATED AT THE WALL CONTROL LINE.

INDEX OF SHEETS

1. LOCATION PLAN AND GENERAL NOTES
2. VERTICAL PROFILES
3. R-927 SITUATION AND LAYOUT 1 OF 3
4. R-927 SITUATION AND LAYOUT 2 OF 3
5. R-927 SITUATION AND LAYOUT 3 OF 3
6A. SOIL DATA 1 OF 3
6B. SOIL DATA 2 OF 3
6C. SOIL DATA 3 OF 3
7. R-927 WALL DETAILS 1
8. R-927 WALL DETAILS 2



COMMUTER RAIL TRAIN

(MAX LOAD UP TO 10 CARS)

THIS SEAL APPLIES TO ALL SHEETS CONTAINING THE SIGNATURE ON THE SEAL

THIS SEAL APPLIES TO ALL SHEETS CONTAINING THE SIGNATURE ON THE SEAL

UTAH DEPARTMENT OF TRANSPORTATION

AUTHORIZED FOR USE

UDOT STRUCTURES DESIGN MANAGER

QUANTITIES

ITEM	EST	UNIT	AS CONST
PRECAST PANELS	14858	SQ FT	
PRECAST POSTS	6810	FT	
POST HOLES	4823	FT	

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN KRC 10/22 | CHECK JHO 10/22
DRAWN BJA 10/22 | CHECK JHO 10/22

MM/DD/YY DATE — ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
LOCATION PLAN AND GENERAL NOTES

PIN 15684
PROJECT NUMBER S-I15-7(340)325

DAVIS
COUNTY

R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

SHEET 1 OF 162

2/18/2023 12:05:05 PM Personal pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon_Engineer/15684/Sheet_Files/Structures/Walls/Shepard Lane/R-927/15684_R-927_01-Location_Plan.dgn

EXHIBIT A

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I-15; SHEPARD LN INTCHG & PED OVERPASS

PRECAST RETAINING WALL

VERTICAL PROFILES

PROJECT NUMBER S-I15-7(340)325 PIN 15684

UTAH DEPARTMENT OF TRANSPORTATION

STRUCTURES DIVISION

HORROCKS ENGINEERS

PRELIMINARY - NOT FOR CONSTRUCTION

PS&E SUBMITTAL - 02/23/2023

MM/DD/YY DATE

ENGINEER OF RECORD (EOR)

DESIGN KRC 10/22 CHECK JHO 10/22

DRAWN BJA 10/22 CHECK JHO 10/22

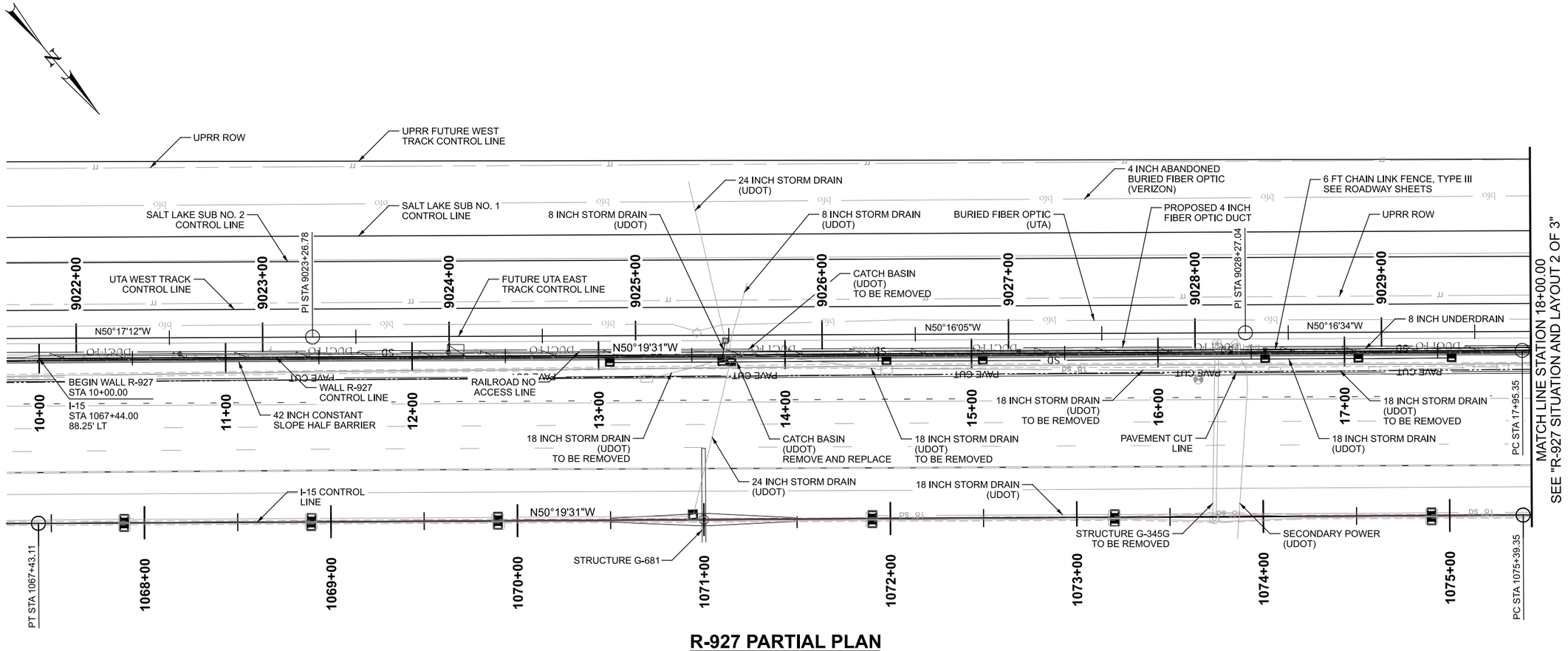
SHEET 2 OF 163

DRAWING NUMBER R-927

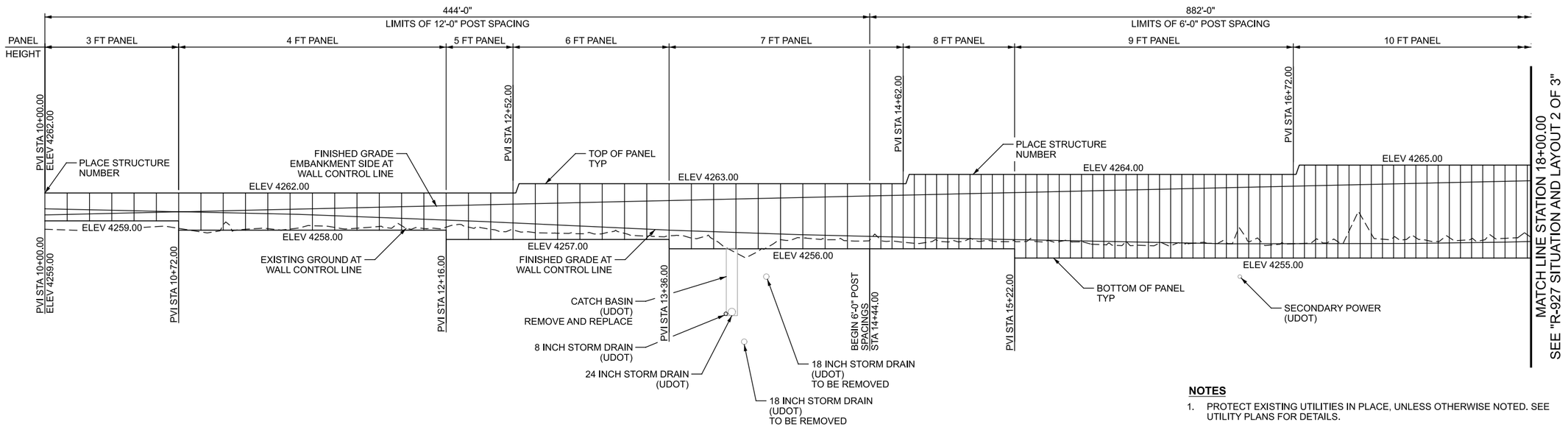
STRUCTURE NUMBER R-927

COUNTY DAVIS

EXHIBIT A



R-927 PARTIAL PLAN



R-927 PARTIAL DEVELOPED ELEVATION

STATION RANGES ARE FROM CENTER OF POST TO CENTER OF POST
POST HOLES AND 6 FT CHAIN LINK FENCE, TYPE III NOT SHOWN FOR CLARITY

NOTES

1. PROTECT EXISTING UTILITIES IN PLACE, UNLESS OTHERWISE NOTED. SEE UTILITY PLANS FOR DETAILS.
2. PLACE THE STRUCTURE NUMBER, INCLUDING THE END LETTER DESIGNATION, AT THE TOP OF THE PRECAST PANEL AT BEGINNING, END, AND AT 500 FT INTERVALS. REFER TO "R-927 WALL DETAILS 2" FOR THE REQUIRED SIZE AND SHAPE OF LETTERING.
3. SPACE POSTS AT 12'-0" ON CENTER UNLESS NOTED OTHERWISE.

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

MM/DD/YY DATE — ENGINEER OF RECORD (EOR)

DESIGN KRC 10/22 | CHECK JHO 10/22
DRAWN BJA 10/22 | CHECK JHO 10/22

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
R-927 SITUATION AND LAYOUT 1 OF 3

PIN 15684
PROJECT NUMBER S-I15-7(340)325

DAVIS
COUNTY

R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

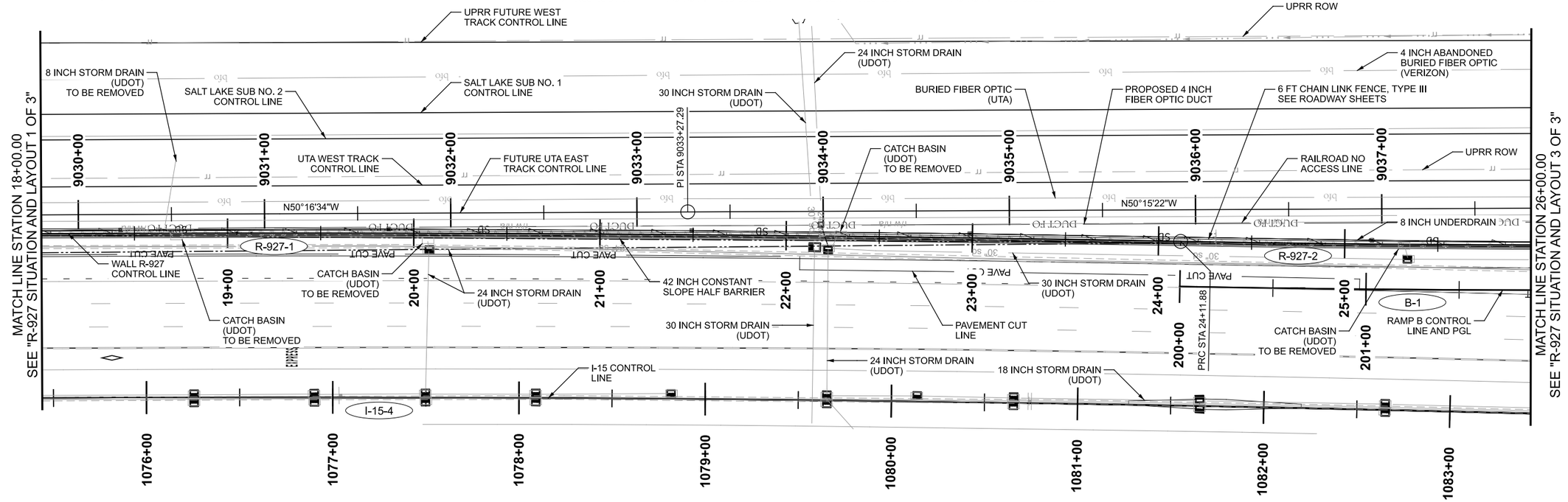
SHEET 3 OF 164

2/16/2023 1:22:03 PM Personal pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-21031 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Structures/Walls/Shepard Lane/R-927/15684_R-927_03-SitLo1.dgn

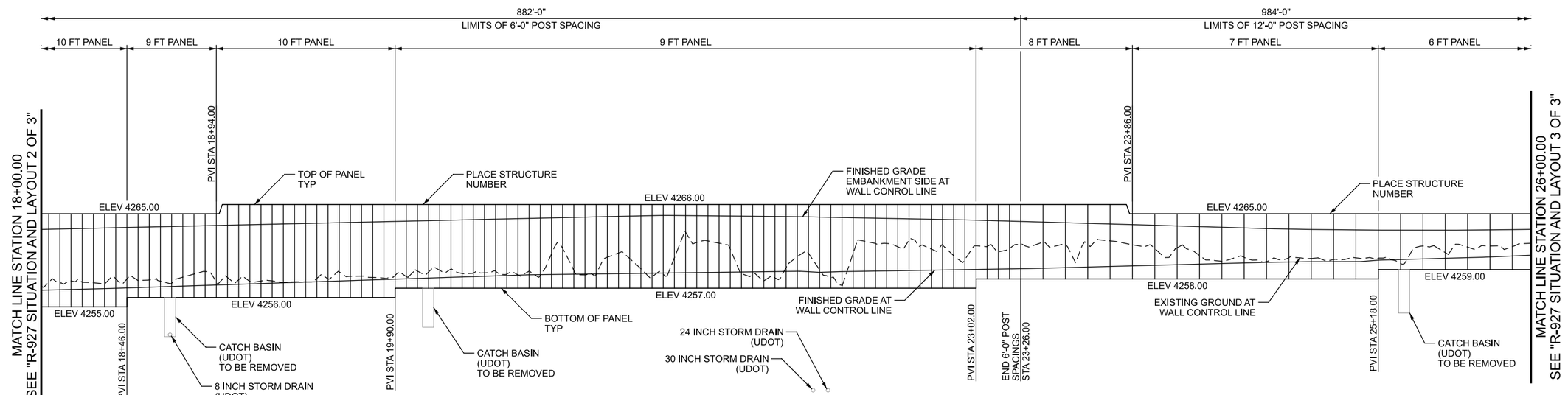
EXHIBIT A

CURVE DATA

CURVE NUMBER I-15-4	CURVE NUMBER RAMP B-1	CURVE NUMBER R-927-1	CURVE NUMBER R-927-2
Δ = 03°24'21" RT	Δ = 02°33'17" LT	Δ = 01°23'39" RT	Δ = 02°33'17" LT
R = 25250.00'	R = 11100.00'	R = 25338.25'	R = 11075.75'
T = 750.69'	T = 247.50'	T = 308.28'	T = 246.96'
L = 1500.94'	L = 494.91'	L = 616.53'	L = 493.83'
PI = STA 1082+90.04	PI = STA 202+47.50	PI = STA 21+03.63	PI = STA 26+58.83
N = 523523.63	N = 523556.67	N = 523173.26	N = 523538.03
E = 525475.00	E = 525356.09	E = 525759.17	E = 525340.56
PC TO PI = N50°19'31"W	PC TO PI = N48°55'52"W	PC TO PI = N50°19'31"W	PC TO PI = N48°55'52"W



R-927 PARTIAL PLAN



R-927 PARTIAL DEVELOPED ELEVATION

STATION RANGES ARE FROM CENTER OF POST TO CENTER OF POST
POST HOLES AND 6 FT CHAIN LINK FENCE, TYPE III NOT SHOWN FOR CLARITY

NOTES

1. SEE "R-927 SITUATION AND LAYOUT 1 OF 3" FOR NOTES.

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN	KRC	10/22	CHECK	JHO	10/22
DRAWN	BJA	10/22	CHECK	JHO	10/22

MM/DD/YY DATE — ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
R-927 SITUATION AND LAYOUT 2 OF 3
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684

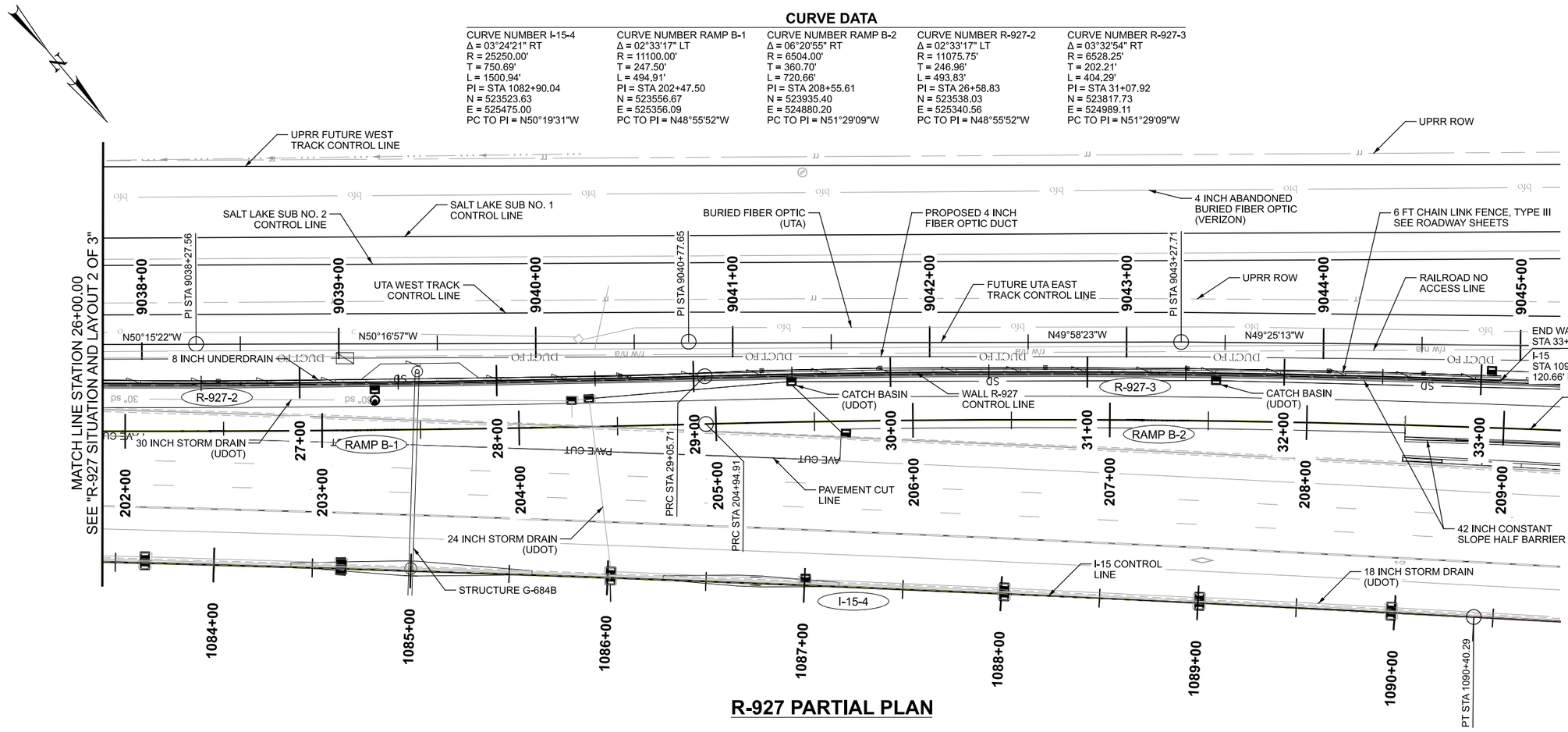
DAVIS — COUNTY
R-927 — STRUCTURE NUMBER
R-927 — DRAWING NUMBER
SHEET 4 OF 165

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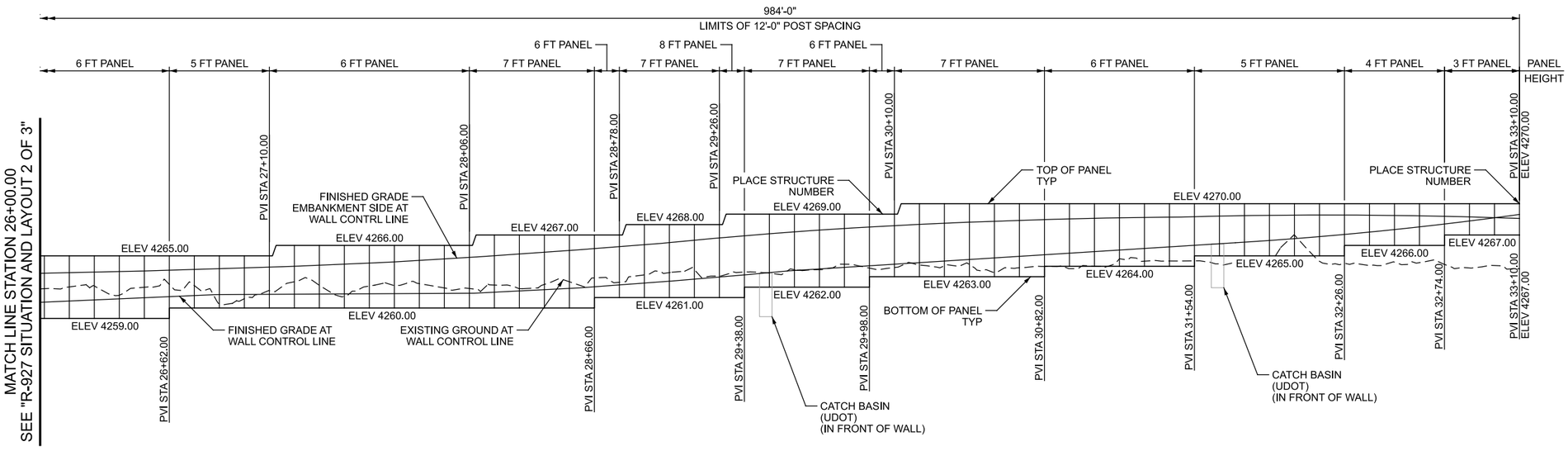
EXHIBIT A

CURVE DATA

CURVE NUMBER I-15-4	CURVE NUMBER RAMP B-1	CURVE NUMBER RAMP B-2	CURVE NUMBER R-927-2	CURVE NUMBER R-927-3
Δ = 03°24'21" RT	Δ = 02°33'17" LT	Δ = 06°20'55" RT	Δ = 02°33'17" LT	Δ = 03°32'54" RT
R = 25250.00'	R = 11100.00'	R = 6504.00'	R = 11075.75'	R = 6528.25'
T = 750.69'	T = 247.50'	T = 360.70'	T = 246.96'	T = 202.21'
L = 1500.94'	L = 494.91'	L = 720.66'	L = 493.83'	L = 404.29'
PI = STA 1082+90.04	PI = STA 202+47.50	PI = STA 208+55.61	PI = STA 26+58.83	PI = STA 31+07.92
N = 523523.63	N = 523556.67	N = 523935.40	N = 523538.03	N = 523817.73
E = 525475.00	E = 525356.09	E = 524880.20	E = 525340.56	E = 524989.11
PC TO PI = N50°19'31"W	PC TO PI = N48°55'52"W	PC TO PI = N51°29'09"W	PC TO PI = N48°55'52"W	PC TO PI = N51°29'09"W



R-927 PARTIAL PLAN



R-927 PARTIAL DEVELOPED ELEVATION

STATION RANGES ARE FROM CENTER OF POST TO CENTER OF POST
POST HOLES AND 6 FT CHAIN LINK FENCE, TYPE III NOT SHOWN FOR CLARITY

NOTES

1. SEE "R-927 SITUATION AND LAYOUT 1 OF 3" FOR NOTES.

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN KRC 10/20 | CHECK JHO 10/22
DRAWN BJA 10/20 | CHECK JHO 10/22

MM/DD/YY DATE
ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
R-927 SITUATION AND LAYOUT 3 OF 3
PIN 15684
PROJECT NUMBER S-I15-7(340)325

DAVIS
COUNTY

R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

SHEET 5 OF 166

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EXHIBIT A

DRILL HOLE LOG — BORING NO. 21-UTA-B1

PROJECT: I-15; SHEPARD LANE INTERCHANGE - UTA WALL
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N: 522697, E: 526355 / LAT: 40.994164° N, LONG: 111.914497° W
DRILLING METHOD: 20-CME-55 / NW CASING TO 5'
DRILLER: T.K.
DEPTH TO WATER - INITIAL: ▽ 9.0' **AFTER 24 HOURS:** ▼ N.M.
PROJECT NUMBER: 202101-017-02
DATE STARTED: 9/1/22
DATE COMPLETED: 9/1/22
GROUND ELEVATION: 4258.3'
LOGGED BY: M.N.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	See Legend	USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
							16" ASPHALT								
				16	40,42,27,(99+)	GP-GM	brown, moist, very dense — GRAVEL W/SILT & SAND (fill)								
						GM	red, moist, very dense — SILTY GRAVEL W/SAND (fill)								
4255						GM	red, moist								
				15	18,29,35,(99+)	SM (A-1-b(0))	brown, moist, very dense — SILTY SAND W/GRAVEL (fill)		6.8		NP	34	48	16	
	5														
				16	6,12,17,(62)	SM (A-4(0))	brown & gray, moist, very dense — SILTY SAND		17.4		NP	2	51	47	
							GRAVEL (driller's observation)								
4250							LEAN CLAY W/SAND								
						CL (A-4(6))	dk. brown, moist		18.5	27	9	0	17	83	
	10			16	5,5,6,(20) T 0.36	CL-ML	gray, very moist, firm								
							SILTY CLAY W/SAND								
				14	Pushed T 0.31	CL-ML (A-4(3))	lt. brown, very moist, firm	100.9	22.0	27	7	0	28	72	CT UU 2,946 psf
4245															
	15						SILTY CLAY W/SAND silty sand lenses								
				15	3,2,2,(6) T 0.30	CL-ML	lt. brown, very moist, firm								

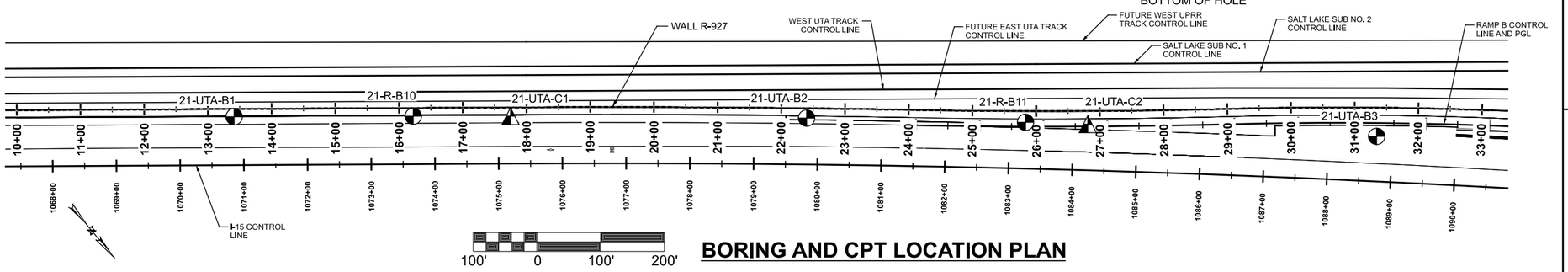
BOTTOM OF HOLE

DRILL HOLE LOG — BORING NO. 21-UTA-B2

PROJECT: I-15; SHEPARD LANE INTERCHANGE - UTA WALL
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N: 523276, E: 525668 / LAT: 40.995742° N, LONG: 111.916996° W
DRILLING METHOD: 20-CME-55 / NW CASING TO 5'
DRILLER: T.K.
DEPTH TO WATER - INITIAL: ▽ 9.5' **AFTER 24 HOURS:** ▼ N.M.
PROJECT NUMBER: 202101-017-02
DATE STARTED: 9/1/22
DATE COMPLETED: 9/1/22
GROUND ELEVATION: 4258.7'
LOGGED BY: M.N.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	See Legend	USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
							16" ASPHALT								
				16	45,35,27,(99+)	GP-GM	brown, sl. moist, very dense — GRAVEL W/SILT & SAND (fill)								
						GM	red, moist, very dense — SILTY GRAVEL W/SAND (fill)								
						GM	red-brown, moist								
4255				15	22,25,25,(99+)	ML	brown, moist — SANDY SILT slightly plastic (fill)								
						SM	brown, very moist, very dense — SILTY SAND W/GRAVEL (fill)								
	5														
				0	21,10,5,(30)	-	no recovery — LEAN CLAY W/SAND								
						CL	gray, wet								
				12	3,2,2,(7) T 0.20	CL	dk. gray to black, very moist, soft — LEAN CLAY trace organics								
4250						SM	dk. gray, wet								
						SM (A-4(0))	dk. gray, wet — SILTY SAND		23.8		NP	0	51	49	
	10			13	Pushed T 0.25	CL (A-6(12))	dk. gray, wet — LEAN CLAY organics, sand seams	93.3	31.0	34	12	0	6	94	CT
				15	2,2,2,(7)	ML (A-4(0))	brown, wet, loose — SANDY SILT clay lenses		29.3		NP	0	39	61	Hyd.
4245															
	15			14	Pushed	ML	gray, wet								
				18	2,1,2,(5)	ML (A-4(0))	gray, wet, loose — SANDY SILT organics		28.2		NP	0	33	67	Hyd.
4240															
	20			17	2,2,2,(6) T 0.15	CL	lt. brown, wet, soft — LEAN CLAY silty sand lenses								

BOTTOM OF HOLE



BORING AND CPT LOCATION PLAN

KEY TO BORING LOG

SYMBOLS

Split Spoon Sample — 2,3,7,(6) ← (N)60 Value; T 0.45 ← Torvane (tsf); PP 2.0 ← Pocket Penetrometer (tsf)
Core — 95,60 ← Percent Recovery, R.Q.D.
Thin-Walled Tube Sample — Pushed; T 0.45 ← Torvane (tsf); PP 2.0 ← Pocket Penetrometer (tsf)

CT = Consolidation
UU = Unconsolidated, Undrained
Hyd. = Hydrometer
Chem. = pH, Resistivity, Sulfate, Chloride, Soluble Salts

2" OD Split Spoon (SPT)
2.5" OD Split Spoon

RELATIVE DENSITY (NON-PLASTIC - SAND & SILT)

VERY LOOSE, $(N_1)_{60}$ <5
LOOSE, $(N_1)_{60}$ 5-10
MED DENSE, $(N_1)_{60}$ 11-30
DENSE, $(N_1)_{60}$ 31-50
VERY DENSE, $(N_1)_{60}$ >50

CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT, TORVANE <0.12, PP <0.25
SOFT, TORVANE 0.12-0.25, PP 0.25-0.5
FIRM, TORVANE 0.25-0.50, PP 0.5-1.0
STIFF, TORVANE 0.50-1.00, PP 1.0-2.0
VERY STIFF, TORVANE 1.00-2.00, PP 2.0-4.0
HARD, TORVANE >2.00, PP >4.0

GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED ON 09/01/22 BY RB&G ENGINEERING, INC.
2. THIS BORING LOG REPRESENTS A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN THE BORING AND IS BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THIS BORING LOG MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
3. THE WATER LEVEL AND CONDITIONS INDICATED ON THE BORING LOG REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED THAT AT LOCATIONS AWAY FROM THE BORING OR AT ANOTHER TIME THE WATER LEVEL AND CONDITIONS MAY VARY SIGNIFICANTLY.
4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES, AND THE TRANSITION MAY BE GRADUAL.
5. COBBLE - A ROCK WITH AN AVERAGE DIMENSION BETWEEN 3 INCHES AND 12 INCHES
6. BOULDER - A ROCK WITH AN AVERAGE DIMENSION OF 12 INCHES OR GREATER.

NOTE: DRILL RIG USED - 20-CME-55, HAMMER E=0.83

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN MNH 09/22 CHECK SRJ 10/22
DRAWN JPN 10/22 CHECK SRJ 10/22

MM/DD/YY DATE — ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
RB&G ENGINEERING

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
SOIL DATA 1 OF 3
PIN 15684
S-I15-7(340)325
PROJECT NUMBER

DAVIS
COUNTY
R-927
STRUCTURE NUMBER
R-927
DRAWING NUMBER
SHEET 6A OF 167

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EXHIBIT A

DRILL HOLE LOG — BORING NO. 21-UTA-B3

PROJECT: I-15; SHEPARD LANE INTERCHANGE - UTA WALL
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N: 523873, E: 525001 / LAT: 40.997372° N, LONG: 111.919422° W
DRILLING METHOD: 20-CME-55 / NW CASING TO 9'
DRILLER: T.K.
DEPTH TO WATER - INITIAL: ▽ 10.7' **AFTER 24 HOURS:** ▼ N.M.
PROJECT NUMBER: 202101-017-02
DATE STARTED: 9/1/22
DATE COMPLETED: 9/1/22
GROUND ELEVATION: 4266.3'
LOGGED BY: M.N.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
							12.5" ASPHALT								
4265				17	55,64,47,(99+)	GM	gray-brown, moist, very dense — SILTY GRAVEL W/SAND (fill)								
						GP-GM	brown, moist, very dense — SILTY SAND W/GRAVEL (fill)								
						CL-ML	brown, moist, stiff — SANDY SILTY CLAY (fill)								
				16	24,38,25,(99+)	GM	gray-brown, moist, very dense — SILTY GRAVEL W/SAND (fill)								
						SM	lt. brown, moist, very dense — SILTY SAND								
	5														
4260				11	Pushed T 0.33	CL-ML (A-4(5))	lt. brown, moist, firm — SILTY CLAY	104.1	20.3	28	6	0	3	97	UU 1,848 psf
					T 0.20	CL-ML	lt. brown, moist, soft — SILTY CLAY silty sand lenses								
	10			8	4,3,4,(13)	SM	lt. rusty-brown, wet, med. dense — SILTY SAND								
4255				16	3,2,3,(8) T 0.18	CL-ML,SM	lt. brown, very moist & wet, soft/loose — INTERBEDDED LAYERS OF SILTY CLAY & SILTY SAND								
	15			18	Pushed T 0.19	CL (A-6(11))	lt. brown, very moist, soft to firm — LEAN CLAY silty sand lenses	88.9	29.7	34	11	0	5	95	CT UU 2,105 psf
4250				18	0,1,2,(5) T 0.17	CL	lt. brown, very moist, soft								

BOTTOM OF HOLE

DRILL HOLE LOG — BORING NO. 21-R-B10

PROJECT: I-15; SHEPARD LANE INTERCHANGE
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N: 522877, E: 526139 / LAT: 40.994654° N, LONG: 111.915280° W
DRILLING METHOD: 08-CME-55 / NW CASING to 5'
DRILLER: D.K.
DEPTH TO WATER - INITIAL: ▽ 2.9' **AFTER 24 HOURS:** ▼ DRY AT 5.4' 1/26/22
PROJECT NUMBER: 202101-017
DATE STARTED: 6/11/21
DATE COMPLETED: 6/11/21
GROUND ELEVATION: 4257.1'
LOGGED BY: W.R., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
							16" ASPHALT								
4255				10	30,25,16,(90)	GM	lt. brown, moist, very dense — SILTY GRAVEL W/SAND (fill)								
						GM	red-brown, very moist								
				15	8,10,11,(49)	ML	dk. brown, wet, dense — SILT plastic								
	5			15	13,20,50,(99+)	SM (A-4(0))	dk. gray, wet, very dense — SILTY SAND W/GRAVEL		15.1		NP	16	42	42	
4250				6	38,22,8,(67)	GC	dk. gray-brown, very moist, dense — CLAYEY GRAVEL W/SAND								
							SILTY SAND								
	10			6	5,2,4,(12)	SM	dk. gray, wet, med. dense								

BOTTOM OF HOLE

DRILL HOLE LOG — BORING NO. 21-R-B11

PROJECT: I-15; SHEPARD LANE INTERCHANGE
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N: 523502, E: 525409 / LAT: 40.996361° N, LONG: 111.917934° W
DRILLING METHOD: 20-CME-55 / NW CASING TO 4.5'
DRILLER: T.K.
DEPTH TO WATER - INITIAL: ▽ 4.6' **AFTER 24 HOURS:** ▼ N.M.
PROJECT NUMBER: 202101-017
DATE STARTED: 6/15/21
DATE COMPLETED: 6/15/21
GROUND ELEVATION: 4260.2'
LOGGED BY: M.N.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4260							13" ASPHALT								
				15	32,30,20,(99+)	GP-GM	brown, sl. moist, very dense — GRAVEL W/SILT & SAND (fill)								
				13	10,15,16,(73)	SM	lt. brown, dry, very dense — SILTY SAND								
						SM	lt. brown, moist								
4255	5			15	8,7,9,(38)	ML	brown, moist — SANDY SILT								
						SM	dk. gray, moist, dense — SILTY SAND								
				13	2,1,2,(6)	OL	black, moist, soft — ORGANIC SILT W/SAND								
	10														

BOTTOM OF HOLE

KEY TO BORING LOG

SYMBOLS

Split Spoon Sample — 2,3,7(16) ← (N)60 Value; T 0.45 ← Torvane (tsf); PP 2.0 ← Pocket Penetrometer (tsf)
Core — 95,60 ← Percent Recovery, R.Q.D.
Thin-Walled Tube Sample — Pushed; T 0.45 ← Torvane (tsf); PP 2.0 ← Pocket Penetrometer (tsf)

CT = Consolidation
UU = Unconsolidated, Undrained
Hyd. = Hydrometer
Chem. = pH, Resistivity, Sulfate, Chloride, Soluble Salts

2" OD Split Spoon (SPT)
2.5" OD Split Spoon

RELATIVE DENSITY (NON-PLASTIC - SAND & SILT)

VERY LOOSE, $(N_1)_{60}$ <5
LOOSE, $(N_1)_{60}$ 5-10
MED DENSE, $(N_1)_{60}$ 11-30
DENSE, $(N_1)_{60}$ 31-50
VERY DENSE, $(N_1)_{60}$ >50

CONSISTENCY (PLASTIC - SILT & CLAY)

VERY SOFT, TORVANE <0.12, PP <0.25
SOFT, TORVANE 0.12-0.25, PP 0.25-0.5
FIRM, TORVANE 0.25-0.50, PP 0.5-1.0
STIFF, TORVANE 0.50-1.00, PP 1.0-2.0
VERY STIFF, TORVANE 1.00-2.00, PP 2.0-4.0
HARD, TORVANE >2.00, PP >4.0

GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED BETWEEN 06/11/21 AND 09/01/22 BY RB&G ENGINEERING, INC.
2. THIS BORING LOG REPRESENTS A SYNOPSIS OF THE SOIL DEPOSITS ENCOUNTERED WITHIN THE BORING AND IS BASED ON SOUND GEOLOGICAL AND ENGINEERING JUDGEMENT. BECAUSE SOIL IS A COMPLEX MEDIUM, THIS BORING LOG MAY OR MAY NOT REPRESENT THE SOIL CONDITIONS AT THIS SITE. THIS SUBSURFACE INTERPRETATION IS PRESENTED IN GOOD FAITH AND IS NOT INTENDED AS A SUBSTITUTE FOR PERSONAL INVESTIGATION AND JUDGEMENT OF THE CONTRACTOR.
3. THE WATER LEVEL AND CONDITIONS INDICATED ON THE BORING LOG REPRESENT HOLE CONDITIONS ON THE DATE SHOWN, HOWEVER, IT SHOULD BE NOTED THAT AT LOCATIONS AWAY FROM THE BORING OR AT ANOTHER TIME THE WATER LEVEL AND CONDITIONS MAY VARY SIGNIFICANTLY.
4. THE STRATIFICATION LINES REPRESENT THE APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES, AND THE TRANSITION MAY BE GRADUAL.
5. COBBLE - A ROCK WITH AN AVERAGE DIMENSION BETWEEN 3 INCHES AND 12 INCHES
6. BOULDER - A ROCK WITH AN AVERAGE DIMENSION OF 12 INCHES OR GREATER.

NOTE: DRILL RIG USED -
20-CME-55, HAMMER E=0.83
08-CME-55, HAMMER E=0.83

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN MNH 09/22 | CHECK SRJ 10/22
DRAWN JPN 10/22 | CHECK SRJ 10/22

MM/DD/YY DATE — ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
RB&G ENGINEERING

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
SOIL DATA 2 OF 3

PIN 15684
S-I15-7(340)325
PROJECT NUMBER

DAVIS
COUNTY

R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

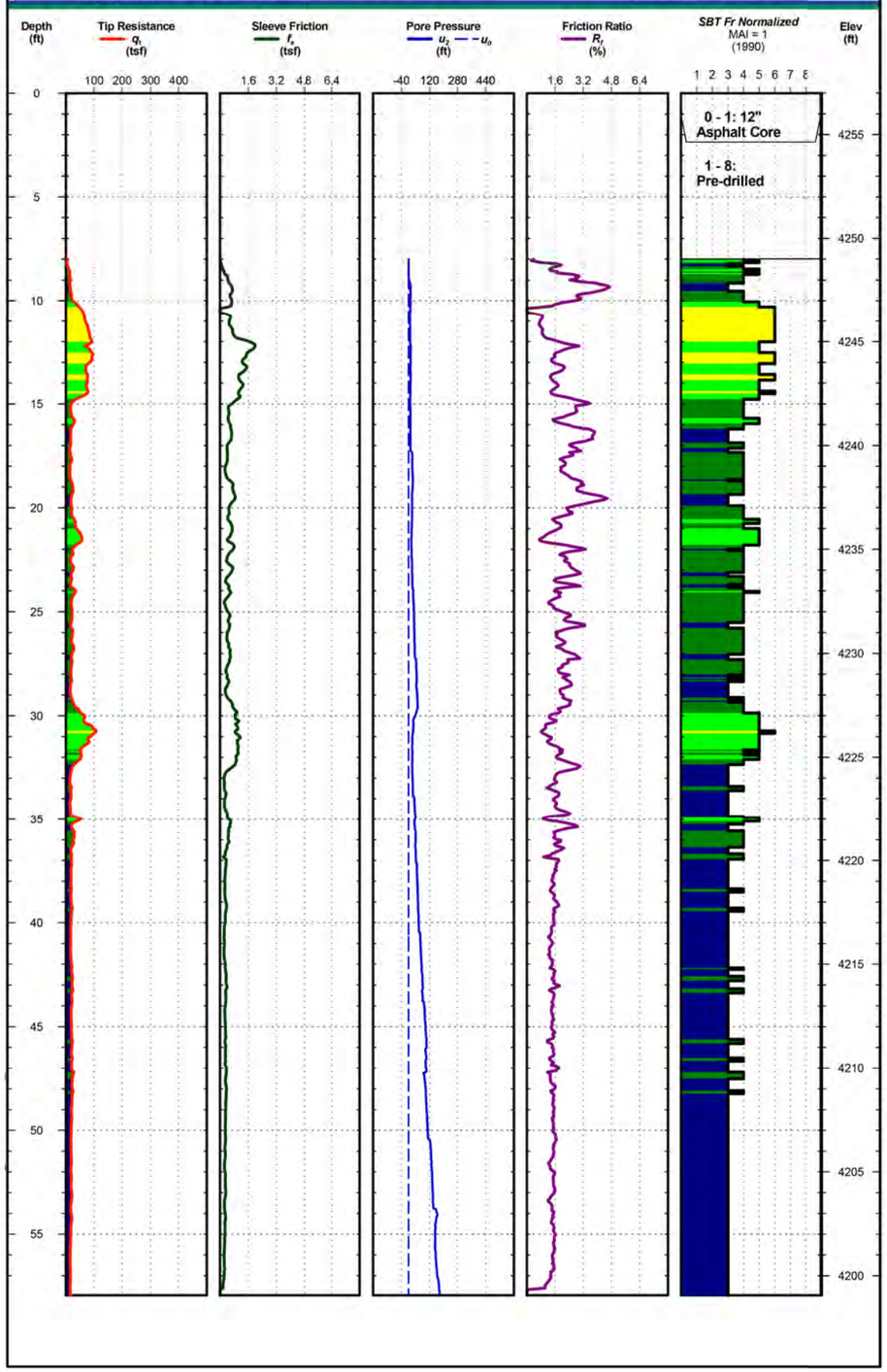
SHEET 6B OF 168

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EXHIBIT A

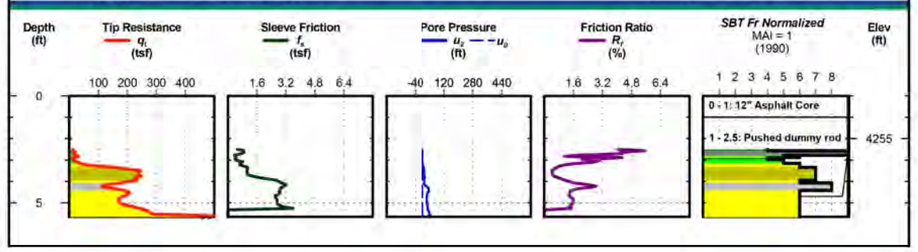
Cone Penetration Test — 22-UTA-C01

Date: Sep. 1, 2022
Estimated Water Depth:
Rig/Operator: DHBedke / ADBedke
Latitude: 40.994923
Longitude: -111.915706
Elevation: 4257.0
Total Depth: 58.0 ft
Termination Criteria: Target Depth
Cone Size: 1.41 sn 4644.149



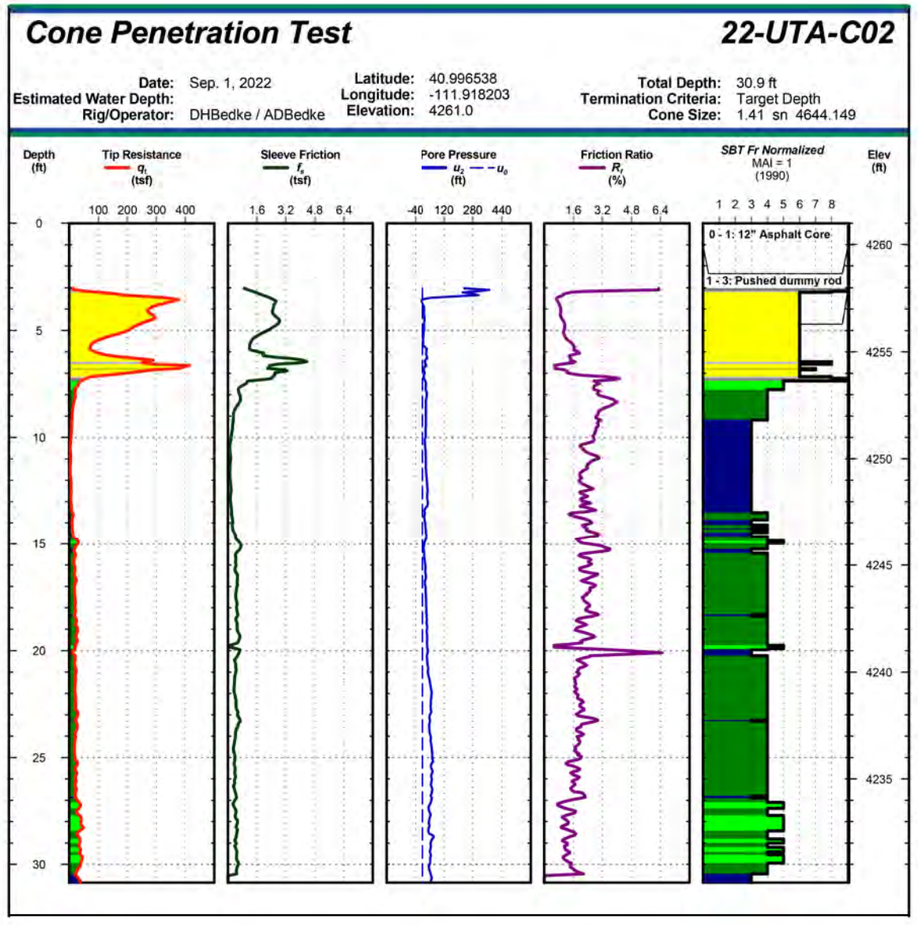
Cone Penetration Test — 22-UTA-C01a

Date: Sep. 1, 2022
Estimated Water Depth:
Rig/Operator: DHBedke / ADBedke
Latitude: 40.994936
Longitude: -111.915738
Elevation: 4257.0
Total Depth: 5.7 ft
Termination Criteria: Maximum Reaction Force
Cone Size: 1.41 sn 4644.149



Cone Penetration Test — 22-UTA-C02

Date: Sep. 1, 2022
Estimated Water Depth:
Rig/Operator: DHBedke / ADBedke
Latitude: 40.996538
Longitude: -111.918203
Elevation: 4261.0
Total Depth: 30.9 ft
Termination Criteria: Target Depth
Cone Size: 1.41 sn 4644.149



KEY TO CPT LOG

GENERAL NOTES

1. THE SUBSURFACE EXPLORATIONS SHOWN WERE CONDUCTED ON 09/01/2022 BY BEDKE GEOTECHNICAL FIELD SERVICES FOR RB&G ENGINEERING, INC..
2. EQUILIBRIUM PORE PRESSURES ARE ESTIMATED PORE WATER PRESSURE IN FEET OF PIEZOMETRIC HEAD DETERMINED USING PORE PRESSURE DISSIPATION TESTS AT THE DEPTHS AND ON THE DATES SHOWN. ACTUAL GROUNDWATER CONDITIONS AT OTHER LOCATIONS, AT OTHER DEPTHS, OR AT OTHER TIMES MAY VARY SIGNIFICANTLY.
3. CPT LOG IS CORRELATED INTERPRETATION OF SOIL BEHAVIOR BASED ON MEASUREMENTS OF AN ELECTRIC PIEZOCONE, AND SOIL BEHAVIOR TYPE (SBT) INTERPRETATIONS WILL NOT NECESSARILY MATCH TRADITIONAL CLASSIFICATIONS OF PHYSICAL SOIL SAMPLES.

SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clays-Clay to Silty Clay
- 4 - Silt Mixtures-Clay Silt to Silty Clay
- 5 - Sand Mixtures-Silty Sand to Sandy Silt
- 6 - Sands-Clean Sand to Silty Sand
- 7 - Gravelly Sand to Sand
- 8 - Very Stiff Clay to Clayey Sand*
- 9 - Very Stiff Fine Grained Soils*

*overconsolidated or cemented

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN JSP 09/22 | CHECK SRJ 10/22
DRAWN JPN 10/22 | CHECK SRJ 10/22

MM/DD/YY DATE | ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
RB&G ENGINEERING

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
SOIL DATA 3 OF 3

PIN 15684
PROJECT NUMBER S-I15-7(340)325

DAVIS
COUNTY

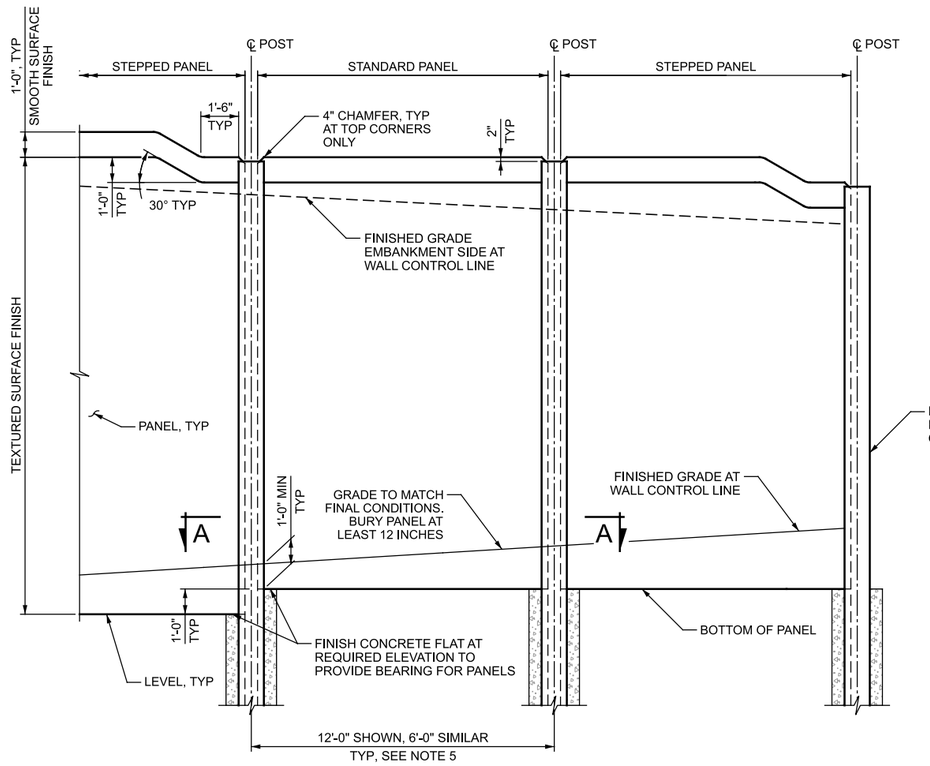
R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

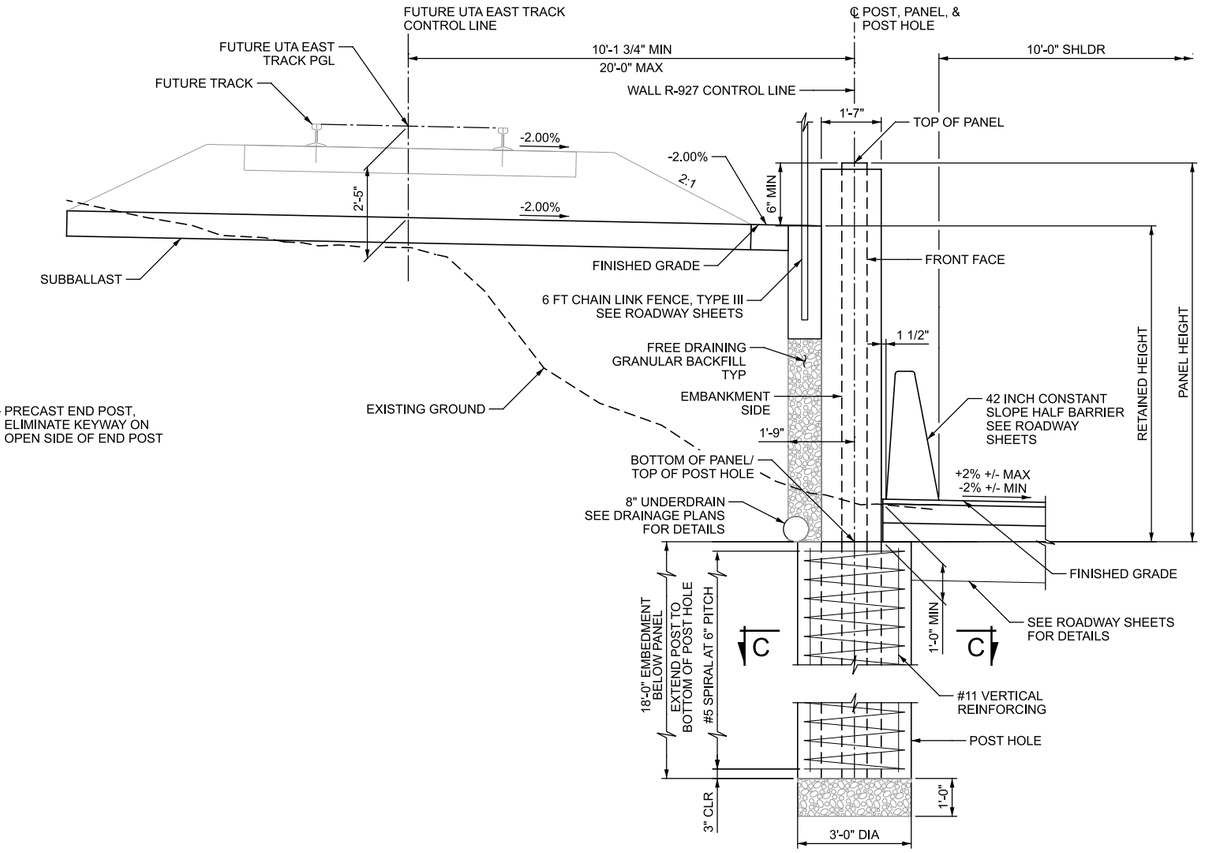
SHEET 6C OF 169

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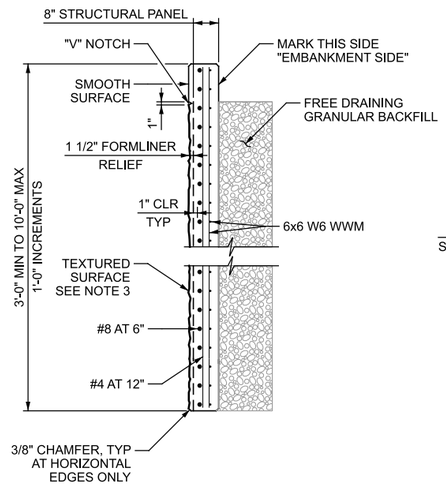
EXHIBIT A



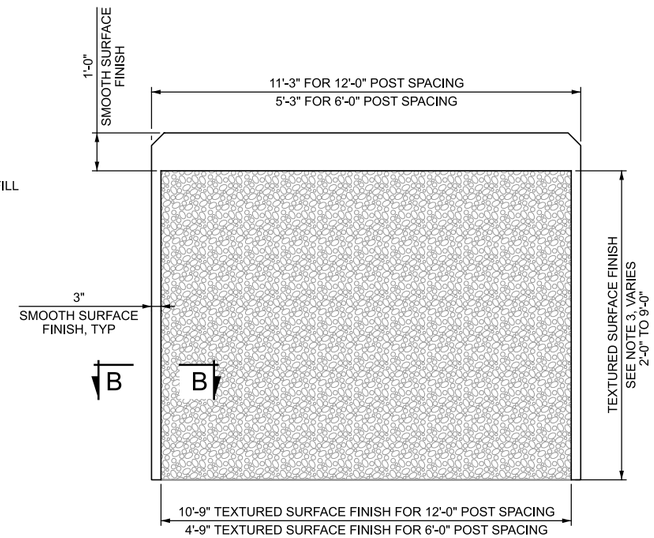
TYPICAL ELEVATION



TYPICAL SECTION

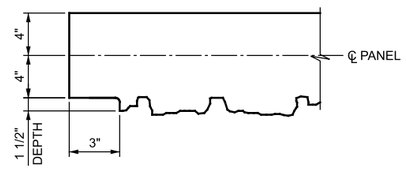


PANEL SECTION

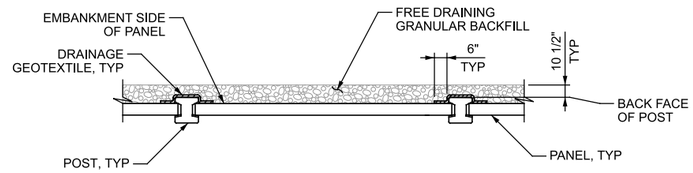


TYPICAL PANEL

EMBANKMENT SIDE FACE SMOOTH SURFACE FINISH



SECTION B-B



NOTE: PLACE FREE DRAINING GRANULAR BACKFILL AND DRAINAGE GEOTEXTILE FROM TOP OF FINISHED GRADE TO BOTTOM OF PANEL.

SECTION A-A

NOTES

1. ALL PANELS ARE: RETAINING PANELS

	6 FT POST SPACING	12 FT POST SPACING
MIN HEIGHT:	7 FT	3 FT
MAX HEIGHT:	10 FT	8 FT
LENGTH:	5 FT 3 IN	11 FT 3 IN
THICKNESS (EXCLUDES TEXTURED SURFACE):	8 IN	8 IN

2. SEE "R-927 WALL DETAILS 2" FOR SECTION C-C.
3. FORM A TEXTURED SURFACE ON EXPOSED SIDE OF RETAINING PANEL. USE LARGE SANDSTONE ASHLAR OR APPROVED EQUAL WITH 1 1/2" MAX RELIEF AND CONCRETE COATING, SAE INTERNATIONAL AMS-STD-595A 36492.
4. SEE "R-927 WALL DETAILS 2" FOR POST AND POST HOLE DETAILS. MEASURE POST HOLE DEPTH FROM THE LOWER OF THE TWO ADJACENT PANELS.
5. SEE SITUATION AND LAYOUT SHEETS FOR WALL POST SPACING REQUIREMENTS.
6. AT CONTRACTOR'S OPTION, RIGID PLASTIC FOAM MAY BE ADDED BETWEEN POSTS AND ROADWAY BARRIER TO FORM BARRIER.

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN KRC 10/22 | CHECK JHO 10/22
DRAWN BJA 10/22 | CHECK JHO 10/22

MM/DD/YY DATE | ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

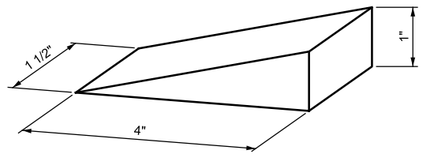
I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
R-927 WALL DETAILS 1

PIN 15684
PROJECT NUMBER S-I15-7(340)325

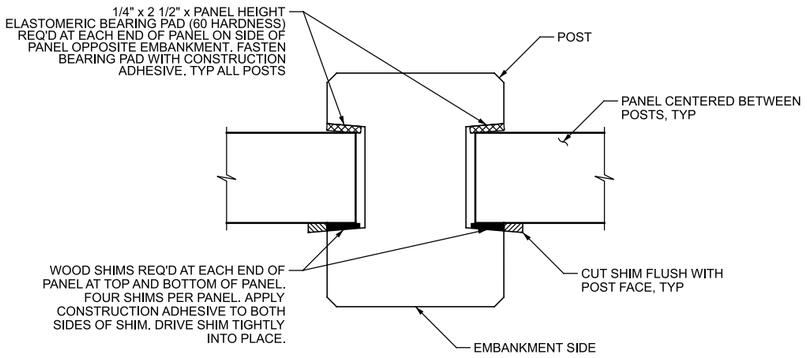
DAVIS COUNTY
R-927 STRUCTURE NUMBER
R-927 DRAWING NUMBER
SHEET 7 OF 170

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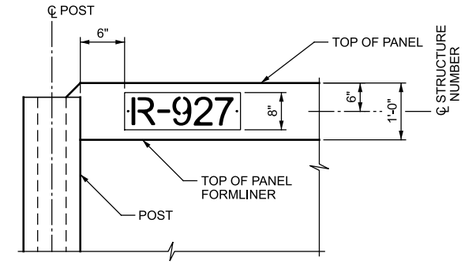
EXHIBIT A



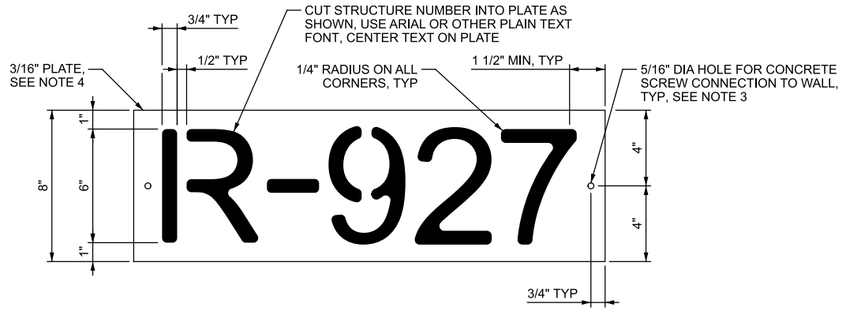
WOOD SHIM DETAIL



POST & PANEL DETAIL



FRONT OF WALL ELEVATION

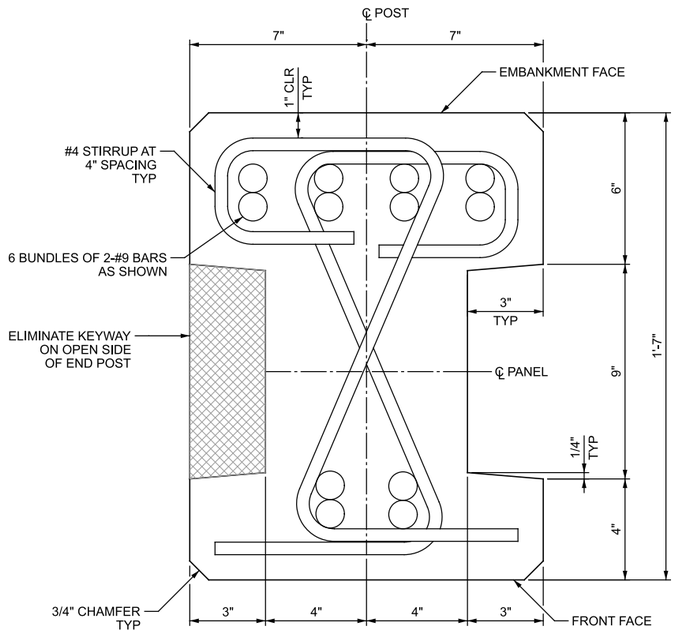


STRUCTURE NUMBER PLATE DETAIL

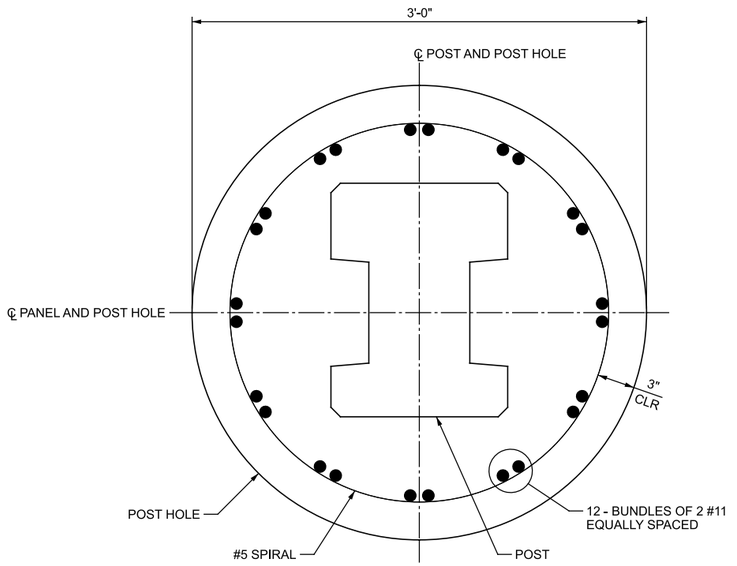
FOR SCREW CONNECTION TO WALL

PANEL STRUCTURE NUMBER DETAIL

SEE NOTES



SECTION THROUGH POST



SECTION C-C

NOTES

1. SEE SITUATION AND LAYOUT SHEETS FOR STRUCTURE NUMBER LOCATIONS.
2. USE COATED 3/16 INCH DIAMETER OR 1/4 INCH DIAMETER CONCRETE SCREWS AT EACH END FOR ATTACHING PLATE TO CONCRETE WALL FACE. USE COATING THAT PROVIDES LONG-TERM CORROSION RESISTANCE INTENDED FOR OUTDOOR HARSH ENVIRONMENTS THAT IS COMPATIBLE WITH THE STEEL PLATE GALVANIZED FINISH. FOLLOW ALL MANUFACTURER INSTRUCTIONS FOR SCREW INSTALLATION.
3. USE STEEL CONFORMING TO AASHTO M270 GRADE 36 FOR PLATE. GALVANIZE PLATE AFTER FABRICATION ACCORDING TO AASHTO M111.

QUANTITIES		
ITEM	EST QTY	UNIT
PRECAST 11'-3" RETAINING PANEL HEIGHT 3 FT	9	EACH
PRECAST 11'-3" RETAINING PANEL HEIGHT 4 FT	16	EACH
PRECAST 11'-3" RETAINING PANEL HEIGHT 5 FT	13	EACH
PRECAST 11'-3" RETAINING PANEL HEIGHT 6 FT	35	EACH
PRECAST 11'-3" RETAINING PANEL HEIGHT 7 FT	40	EACH
PRECAST 11'-3" RETAINING PANEL HEIGHT 8 FT	6	EACH
PRECAST 5'-3" RETAINING PANEL HEIGHT 7 FT	3	EACH
PRECAST 5'-3" RETAINING PANEL HEIGHT 8 FT	14	EACH
PRECAST 5'-3" RETAINING PANEL HEIGHT 9 FT	85	EACH
PRECAST 5'-3" RETAINING PANEL HEIGHT 10 FT	45	EACH
PRECAST POST LENGTH 20'-10"	9	EACH
PRECAST POST LENGTH 21'-10"	16	EACH
PRECAST POST LENGTH 22'-10"	14	EACH
PRECAST POST LENGTH 23'-10"	34	EACH
PRECAST POST LENGTH 24'-10"	45	EACH
PRECAST POST LENGTH 25'-10"	18	EACH
PRECAST POST LENGTH 26'-10"	86	EACH
PRECAST POST LENGTH 27'-10"	45	EACH

PRELIMINARY - NOT FOR CONSTRUCTION
PS&E SUBMITTAL - 02/23/2023

DESIGN KRC 10/22 | CHECK JHO 10/22
DRAWN BJA 10/22 | CHECK JHO 10/22

MM/DD/YY DATE
ENGINEER OF RECORD (EOR)

UTAH DEPARTMENT OF TRANSPORTATION
STRUCTURES DIVISION
HORROCKS ENGINEERS

I-15; SHEPARD LN INTCHG & PED OVERPASS
PRECAST RETAINING WALL
R-927 WALL DETAILS 2
PIN 15684
PROJECT NUMBER S-I15-7(340)325

DAVIS
COUNTY

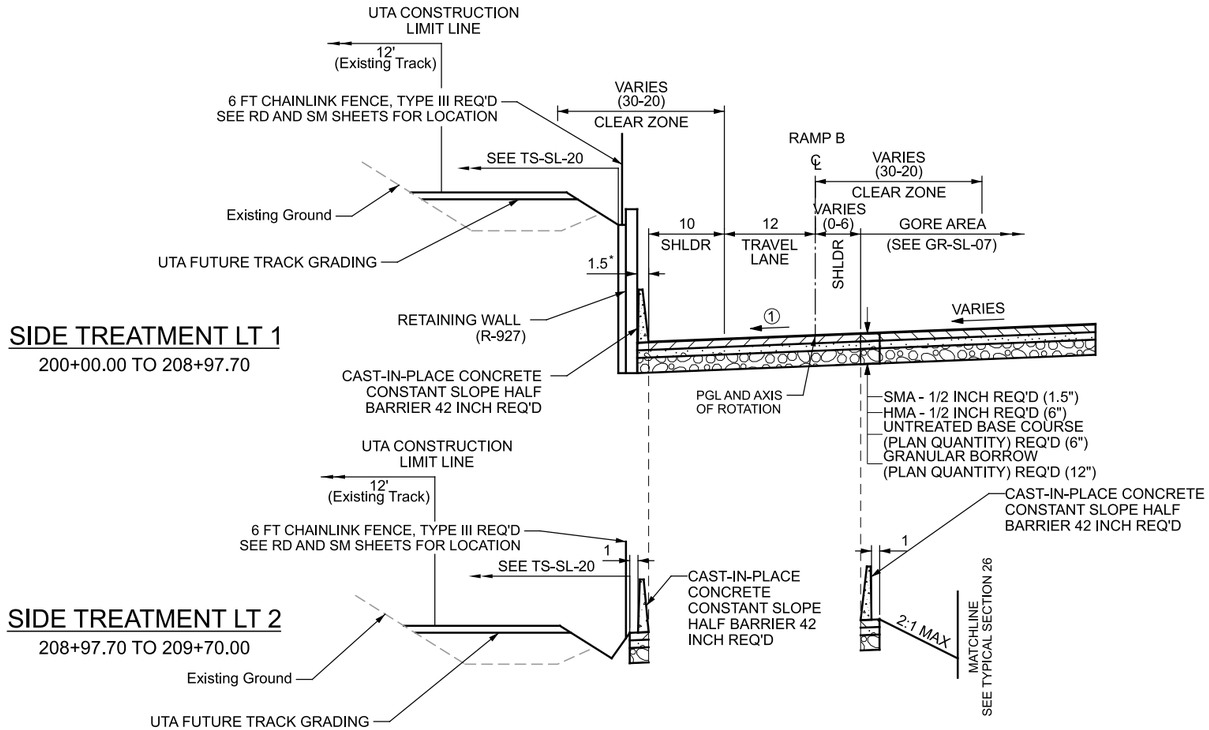
R-927
STRUCTURE NUMBER

R-927
DRAWING NUMBER

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EXHIBIT A



SIDE TREATMENT LT 1
200+00.00 TO 208+97.70

SIDE TREATMENT RT 1
200+00.00 TO 208+50.00

SIDE TREATMENT LT 2
208+97.70 TO 209+70.00

SIDE TREATMENT RT 2
208+50.00 TO 209+70.00

TYPICAL SECTION 18

RAMP B

200+00.00 TO 209+70.00
DESIGN SPEED 60/45 MPH
CLEAR ZONE 30/20 FT
*INCLUDES 1 INCH CONCRETE BEHIND BARRIER

NOTES:

① REFER TO RP-SL SERIES SHEETS FOR CROSS SLOPE INFORMATION

2. REFER TO GR-SL SERIES SHEETS FOR INTERSECTION AND GORE GRADING DETAILS.
3. REFER TO RD-SL SERIES SHEETS FOR PAVEMENT WIDTH INFORMATION.
4. REFER TO SS-SL SERIES SHEETS FOR LANE WIDTH INFORMATION.
5. REFER TO LS SERIES SHEETS FOR LANDSCAPING TREATMENTS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

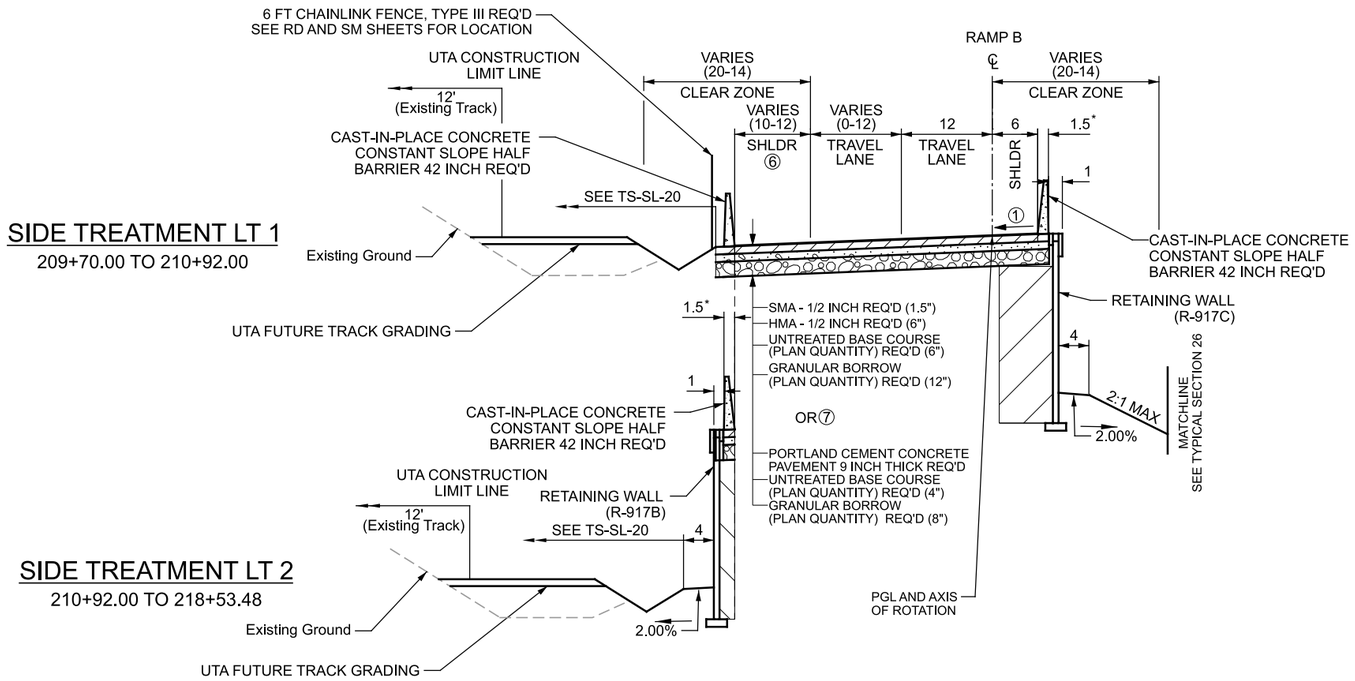
DRAWN BY KLY
QC CHECKED BY RNW
DATE MM/DD/YY
APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
TYPICAL SECTION

SHEET NO. TS-SL-11

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EXHIBIT A



TYPICAL SECTION 19

RAMP B

209+70.00 TO 218+53.48
DESIGN SPEED 45/25 MPH
CLEAR ZONE 20/14 FT
*INCLUDES 1 INCH PAVEMENT BEHIND BARRIER

NOTES:

1. REFER TO RP-SL SERIES SHEETS FOR CROSS SLOPE INFORMATION
2. REFER TO GR-SL SERIES SHEETS FOR INTERSECTION AND GORE GRADING DETAILS.
3. REFER TO RD-SL SERIES SHEETS FOR PAVEMENT WIDTH INFORMATION.
4. REFER TO SS-SL SERIES SHEETS FOR LANE WIDTH INFORMATION.
5. REFER TO LS SERIES SHEETS FOR LANDSCAPING TREATMENTS.
6. EXTRA SHOULDER WIDTH TO ACCOMMODATE FUTURE RAMP METERING.
7. SEE RD SERIES SHEETS FOR PAVING LIMITS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

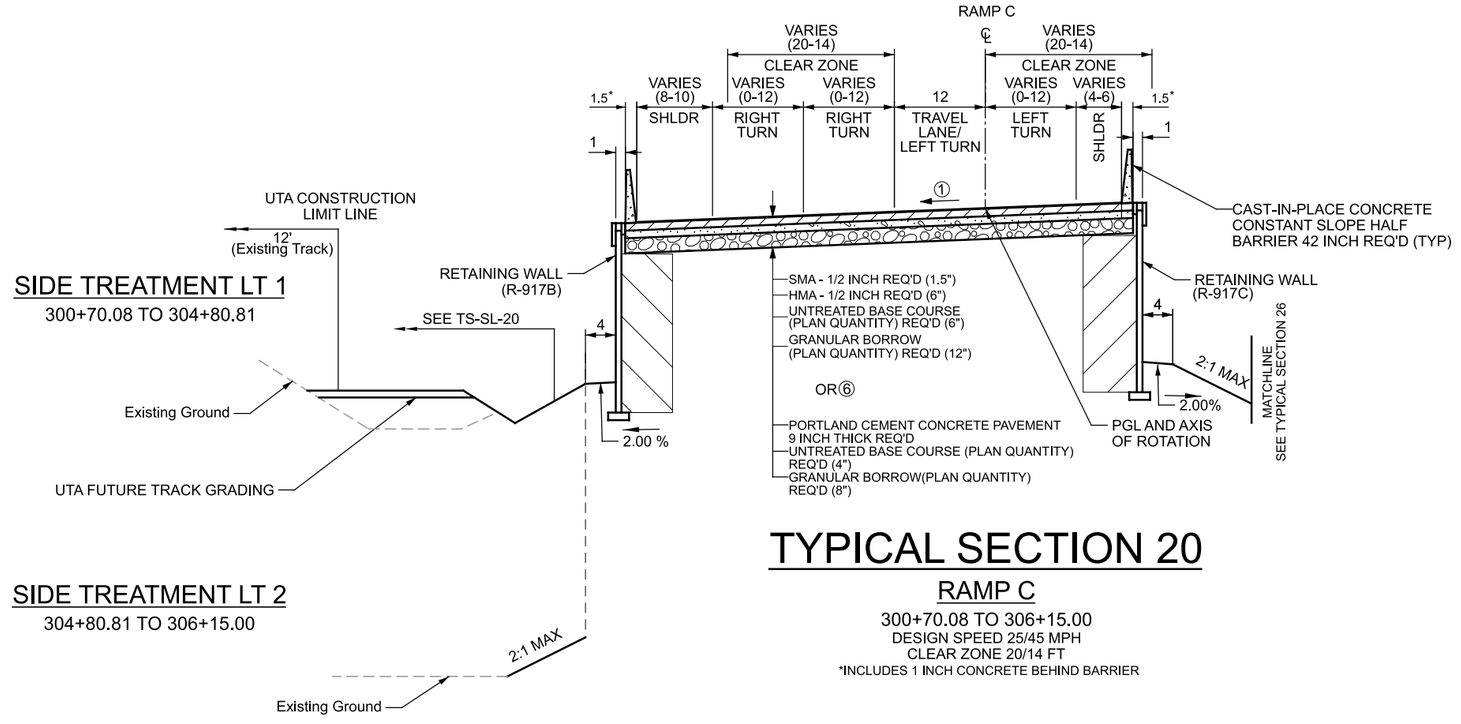
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QC CHECKED BY RNW
DATE MM/DD/YY

APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
TYPICAL SECTION
SHEET NO. TS-SL-12

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EXHIBIT A



TYPICAL SECTION 20

RAMP C

300+70.08 TO 306+15.00
DESIGN SPEED 25/45 MPH
CLEAR ZONE 20/14 FT
*INCLUDES 1 INCH CONCRETE BEHIND BARRIER

NOTES:

① REFER TO RP-SL SERIES SHEETS FOR CROSS SLOPE INFORMATION

2. REFER TO GR-SL SERIES SHEETS FOR INTERSECTION AND GORE GRADING DETAILS.
3. REFER TO RD-SL SERIES SHEETS FOR PAVEMENT WIDTH INFORMATION.
4. REFER TO SS-SL SERIES SHEETS FOR LANE WIDTH INFORMATION.
5. REFER TO LS SERIES SHEETS FOR LANDSCAPING TREATMENTS.

⑥ SEE RD SERIES SHEETS FOR PAVING LIMITS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY KLY
QC CHECKED BY RNW
DATE MM/DD/YY

APPROVED
PROFESSIONAL ENGINEER

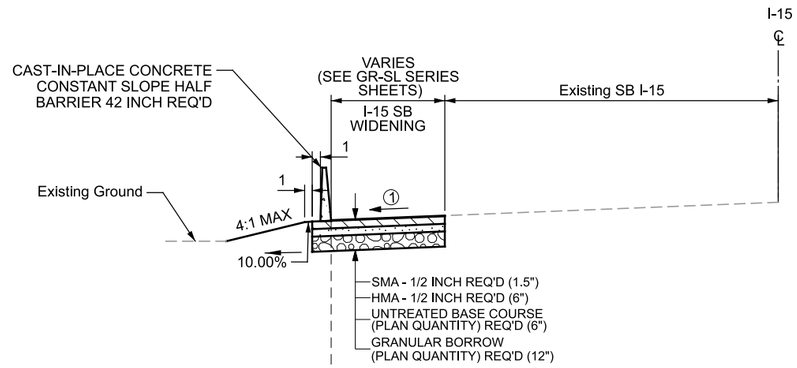
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PIN: 15684
TYPICAL SECTION

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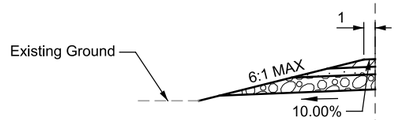
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EXHIBIT A

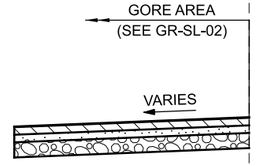
SIDE TREATMENT LT 1
1046+93.78 TO 1051+46.00



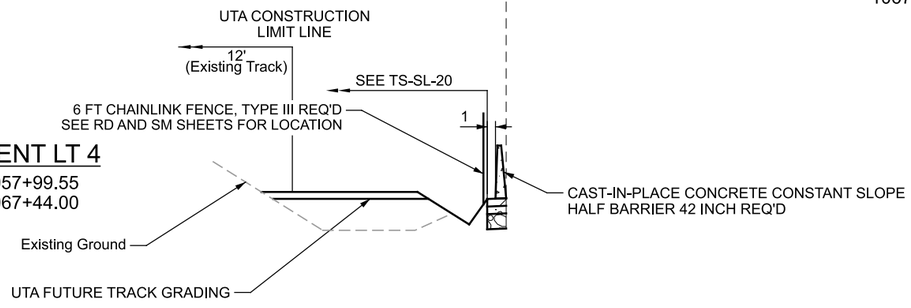
SIDE TREATMENT LT 2
1051+46.00 TO 1054+48.03



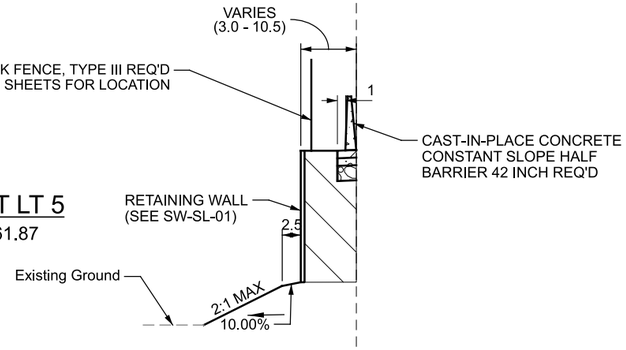
SIDE TREATMENT LT 3
1054+48.03 TO 1055+78.44



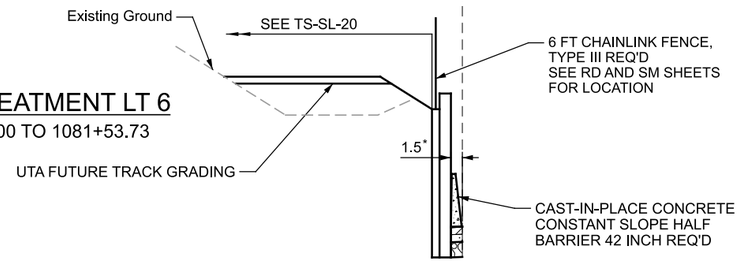
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1057+41.00 TO 1057+99.55
1060+61.87 TO 1067+44.00



SIDE TREATMENT LT 5
1057+99.55 to 1060+61.87



SIDE TREATMENT LT 6
1067+44.00 TO 1081+53.73



TYPICAL SECTION 26
I-15 (SOUTHBOUND)
1046+93.78 TO 1055+78.44
1057+41.00 TO 1081+53.73
DESIGN SPEED 70 MPH
CLEAR ZONE 30 FT

NOTES:

① REFER TO GR-SL SERIES SHEETS FOR PAVEMENT WIDENING DETAILS.

2. REFER TO RD-SL SERIES SHEETS FOR PAVEMENT WIDTH INFORMATION.
3. REFER TO SS-SL SERIES SHEETS FOR LANE WIDTH INFORMATION.
4. REFER TO LS SERIES SHEETS FOR LANDSCAPING TREATMENTS.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY KLY
QC CHECKED BY RNW
DATE MM/DD/YY

APPROVED
PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT
PROJECT NUMBER S-I15-7(340)325
PIN 15684

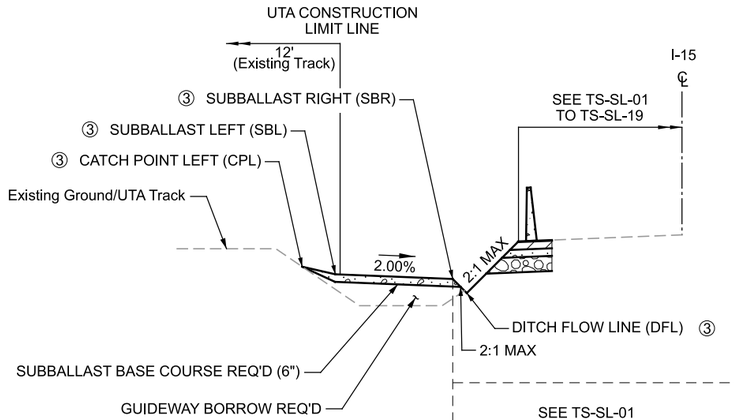
TYPICAL SECTION

SHEET NO. TS-SL-19

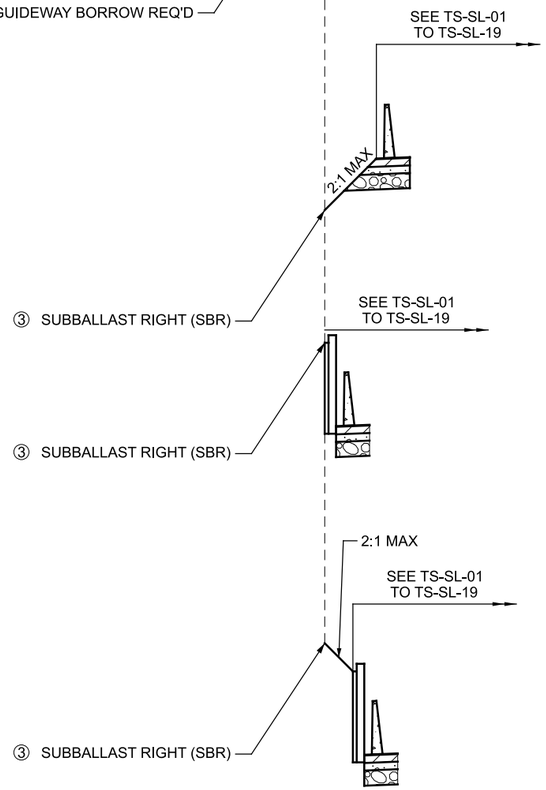
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3/9/2023 9:42:08 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-30119-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Shaet_Files/Typicals/15684_TS-SL-19.dgn

EXHIBIT A



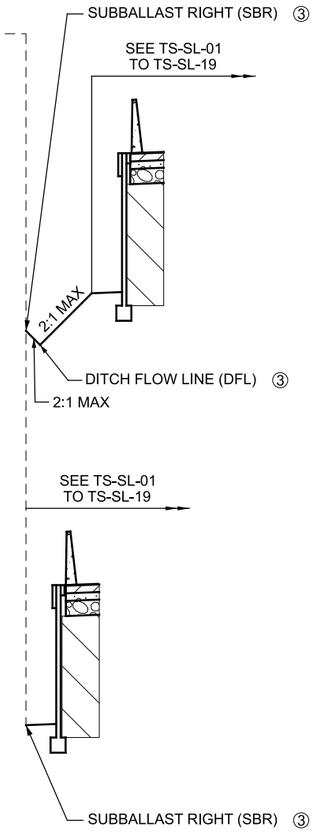
SIDE TREATMENT 1
1057+05.50 TO 1062+16.06
1090+47.54 TO 1092+42.63



SIDE TREATMENT 2
1062+16.06 TO 1067+44.00

SIDE TREATMENT 3
1067+44.00 TO 1079+50.00

SIDE TREATMENT 4
1079+50.00 TO 1090+47.54



SIDE TREATMENT 5
1092+42.63 TO 1093+68.52
1094+42.75 TO 1099+82.79
1101+80.19 TO 1105+63.69

SIDE TREATMENT 6
1093+68.52 TO 1094+42.75
1099+82.79 TO 1101+80.19

TYPICAL SECTION 27
FUTURE UTA TRACK GRADING
1057+05.50 TO 1105+63.69*
*STATIONING BASED OFF I-15 CL

NOTES:

1. SEE TS-SL-01 TO TS-SL-19 FOR INFORMATION NOT SHOWN ON THIS SHEET.
2. REFER TO LS SERIES SHEETS FOR LANDSCAPING TREATMENTS.
3. SEE GR-SL-24 THRU GR-SL-32 FOR STATION/OFFSET/ELEVATION INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY KLY
QC CHECKED BY RNW
DATE MM/DD/YY

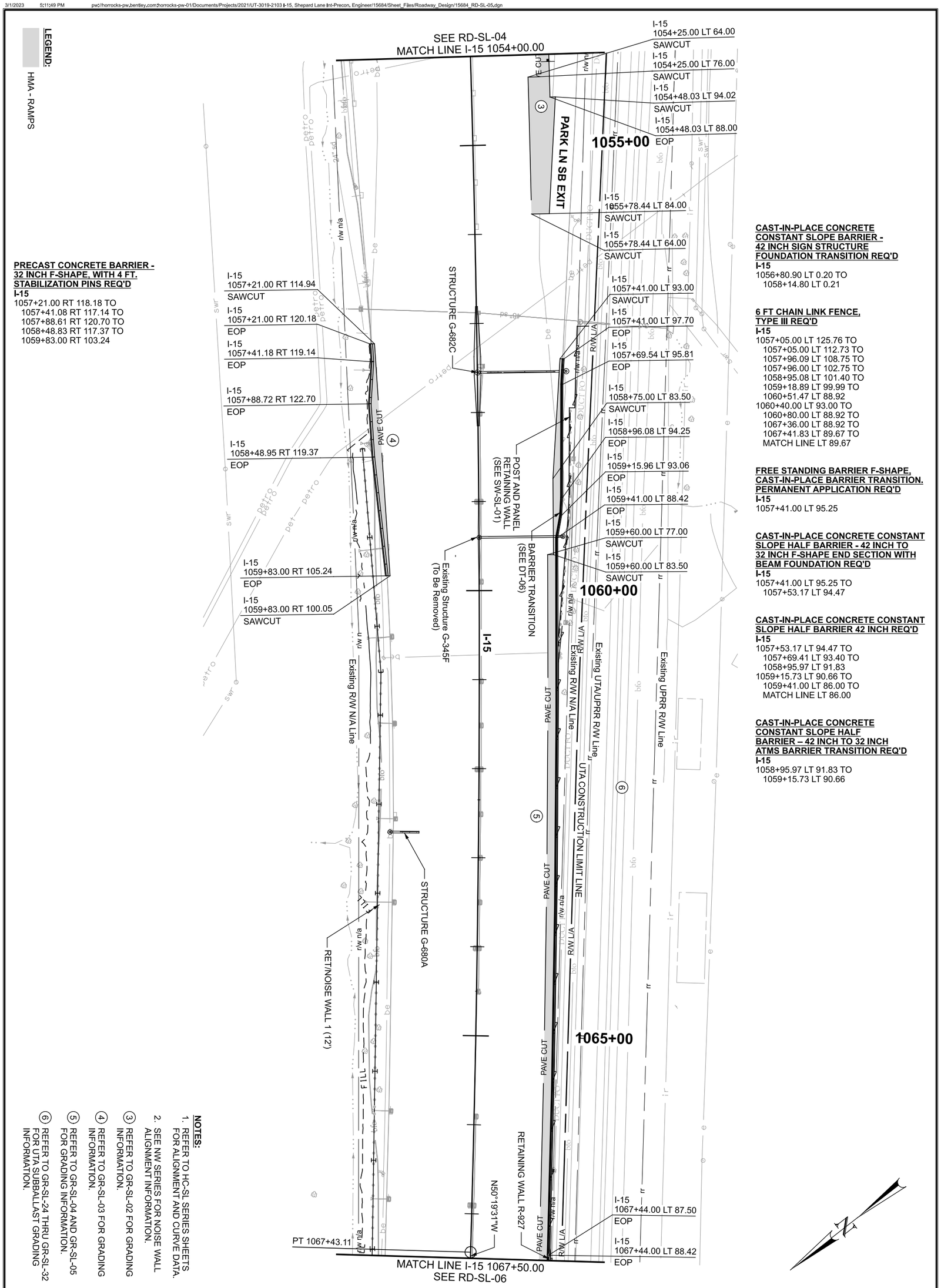
APPROVED
PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT
PROJECT NUMBER S-I15-7(340)325
PIN 15684
TYPICAL SECTION

SHEET NO. TS-SL-20

3/8/2023 9:42:29 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-30193-21031-I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Tydicals/15684_TS-SL-20.dgn

EXHIBIT A



PRECAST CONCRETE BARRIER - 32 INCH F-SHAPE, WITH 4 FT. STABILIZATION PINS REQ'D
I-15
1057+21.00 RT 118.18 TO
1057+41.08 RT 117.14 TO
1057+88.61 RT 120.70 TO
1058+48.83 RT 117.37 TO
1059+83.00 RT 103.24

CAST-IN-PLACE CONCRETE CONSTANT SLOPE BARRIER - 42 INCH SIGN STRUCTURE FOUNDATION TRANSITION REQ'D
I-15
1056+80.90 LT 0.20 TO
1058+14.80 LT 0.21

6 FT CHAIN LINK FENCE, TYPE III REQ'D
I-15
1057+05.00 LT 125.76 TO
1057+05.00 LT 112.73 TO
1057+96.09 LT 108.75 TO
1057+96.00 LT 102.75 TO
1058+95.08 LT 101.40 TO
1059+18.89 LT 99.99 TO
1060+51.47 LT 88.92
1060+40.00 LT 93.00 TO
1060+80.00 LT 88.92 TO
1067+36.00 LT 88.92 TO
1067+41.83 LT 89.67 TO
MATCH LINE LT 89.67

FREE STANDING BARRIER F-SHAPE, CAST-IN-PLACE BARRIER TRANSITION, PERMANENT APPLICATION REQ'D
I-15
1057+41.00 LT 95.25

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER - 42 INCH TO 32 INCH F-SHAPE END SECTION WITH BEAM FOUNDATION REQ'D
I-15
1057+41.00 LT 95.25 TO
1057+53.17 LT 94.47

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER 42 INCH REQ'D
I-15
1057+53.17 LT 94.47 TO
1057+69.41 LT 93.40 TO
1058+95.97 LT 91.83
1059+15.73 LT 90.66 TO
1059+41.00 LT 86.00 TO
MATCH LINE LT 86.00

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER – 42 INCH TO 32 INCH ATMS BARRIER TRANSITION REQ'D
I-15
1058+95.97 LT 91.83 TO
1059+15.73 LT 90.66

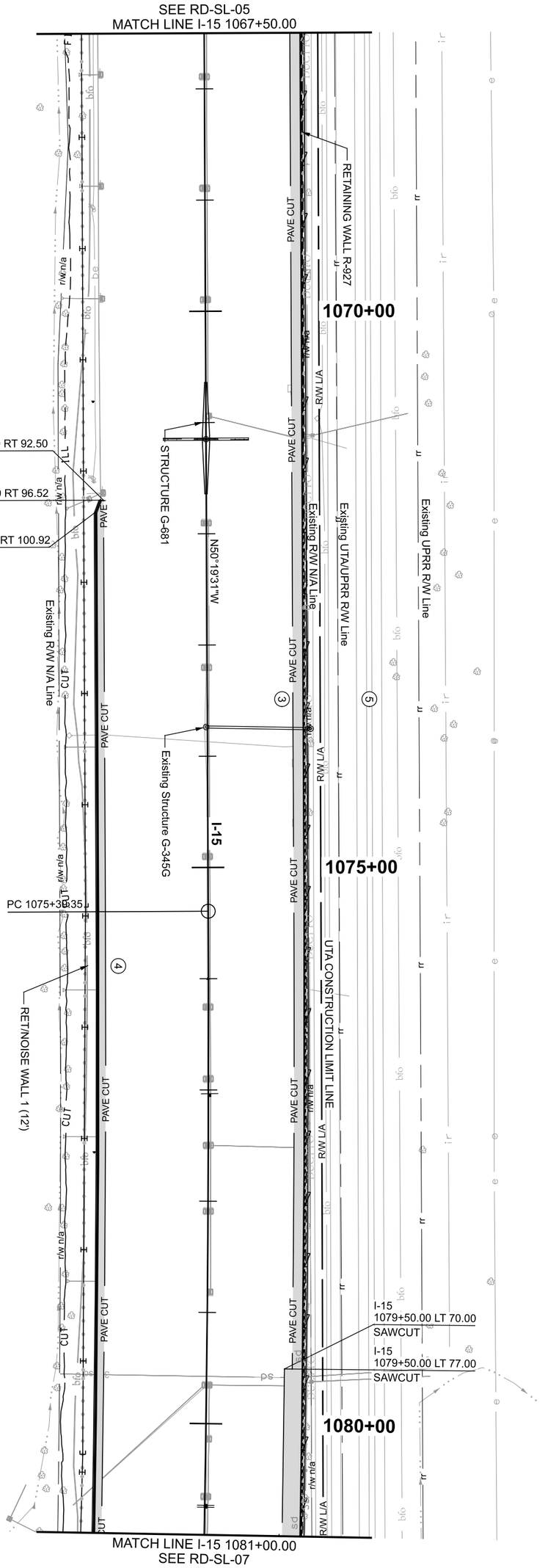
NOTES:
1. REFER TO HC-SL SERIES SHEETS FOR ALIGNMENT AND CURVE DATA.
2. SEE NW SERIES FOR NOISE WALL ALIGNMENT INFORMATION.
3. REFER TO GR-SL-02 FOR GRADING INFORMATION.
4. REFER TO GR-SL-03 FOR GRADING INFORMATION.
5. REFER TO GR-SL-04 AND GR-SL-05 FOR GRADING INFORMATION.
6. REFER TO GR-SL-24 THRU GR-SL-32 FOR UTA SUBBALLAST GRADING INFORMATION.

SHEET NO. RD-SL-05	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY HB	

EXHIBIT A

LEGEND:

HMA - RAMPS



CAST-IN-PLACE CONCRETE CONSTANT SLOPE BARRIER - 42 INCH SIGN STRUCTURE FOUNDATION TRANSITION REQ'D
I-15
1070+64.00 RT 0.06 TO
1071+64.00 RT 0.26

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER - 42 INCH TO 32 INCH F-SHAPE END SECTION WITH BEAM FOUNDATION REQ'D
I-15
1071+69.39 RT 94.08 TO
1071+80.81 RT 98.50

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER 42 INCH REQ'D
I-15
1071+80.81 RT 98.50 TO
MATCH LINE RT 98.50

CAST-IN-PLACE CONCRETE CONSTANT SLOPE HALF BARRIER 42 INCH REQ'D
I-15
MATCH LINE LT 86.00 TO
MATCH LINE LT 86.00

6 FT CHAIN LINK FENCE, TYPE III REQ'D
I-15
MATCH LINE LT 89.67 TO
MATCH LINE LT 89.67

NOTES:

1. REFER TO HC-SL SERIES SHEETS FOR ALIGNMENT AND CURVE DATA.
2. SEE NW SERIES FOR NOISE WALL ALIGNMENT INFORMATION.

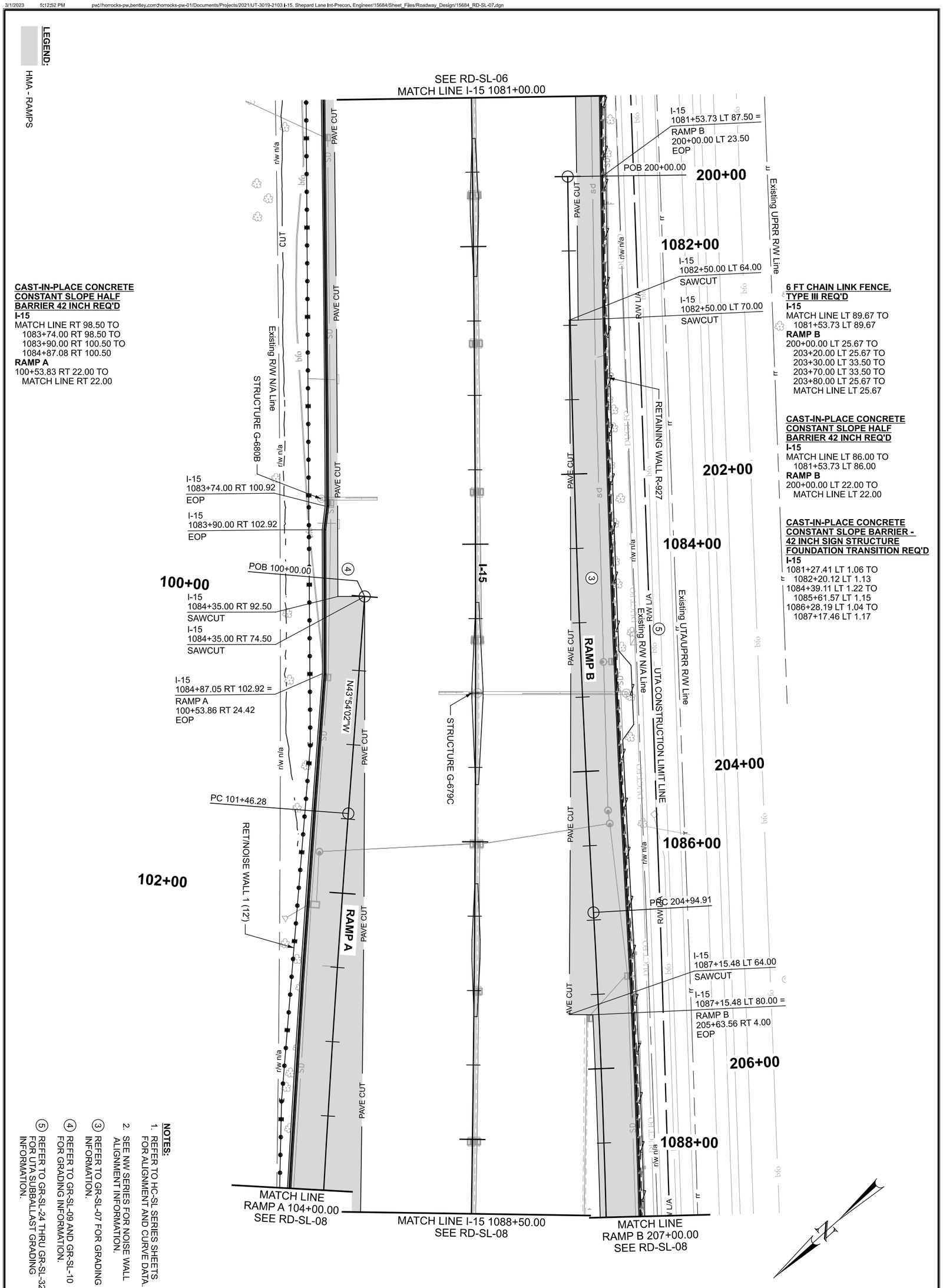
(3) REFER TO GR-SL-05 AND GR-SL-06 FOR GRADING INFORMATION.

(4) REFER TO GR-SL-08 AND GR-SL-09 FOR GRADING INFORMATION.

(5) REFER TO GR-SL-24 THRU GR-SL-32 FOR UTA SUBBALLAST GRADING INFORMATION.

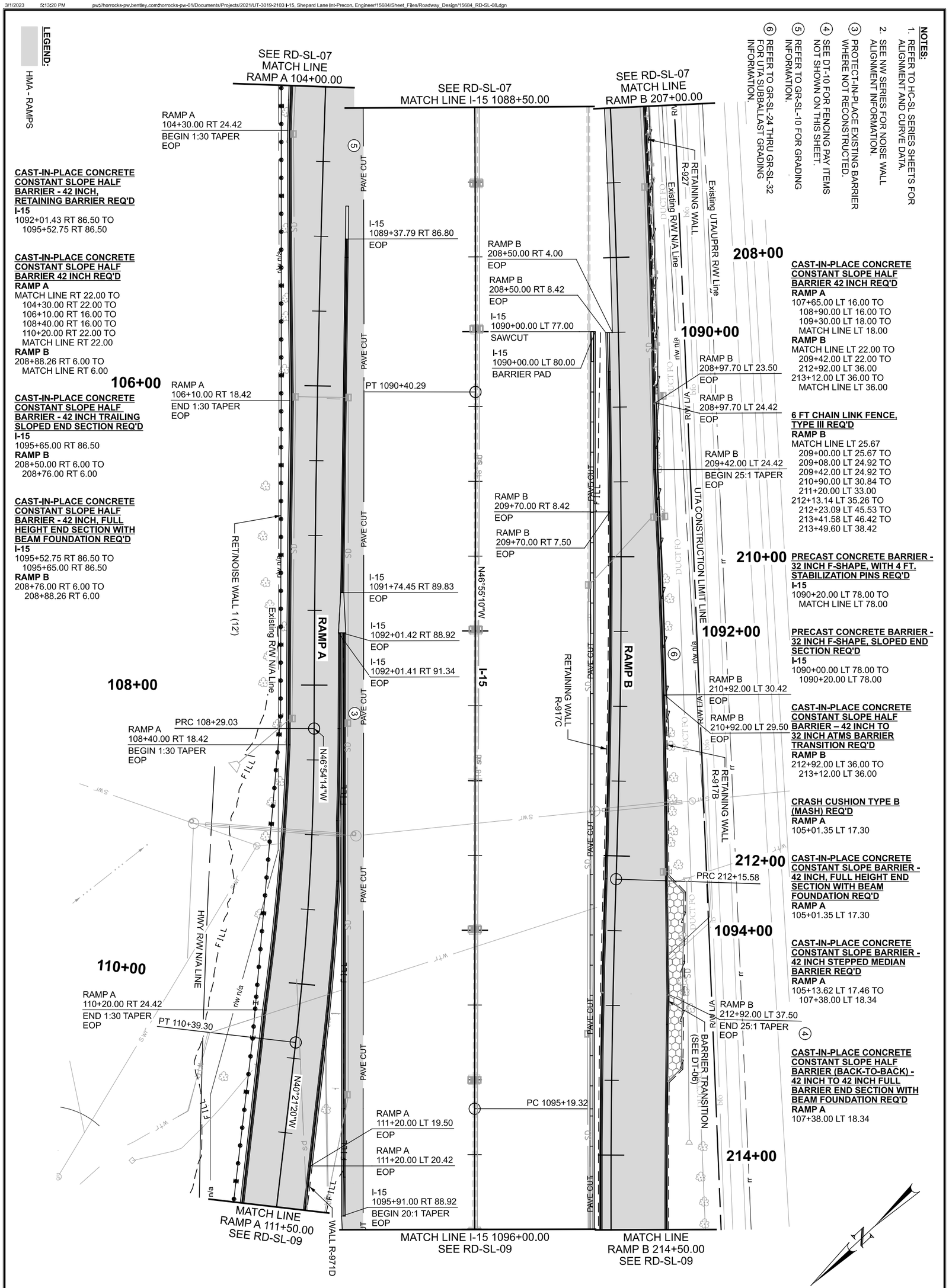
SHEET NO. RD-SL-06	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		MM/DD/YY DATE	QC CHECKED BY HB	

EXHIBIT A



SHEET NO. RD-SL-07	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY HB	

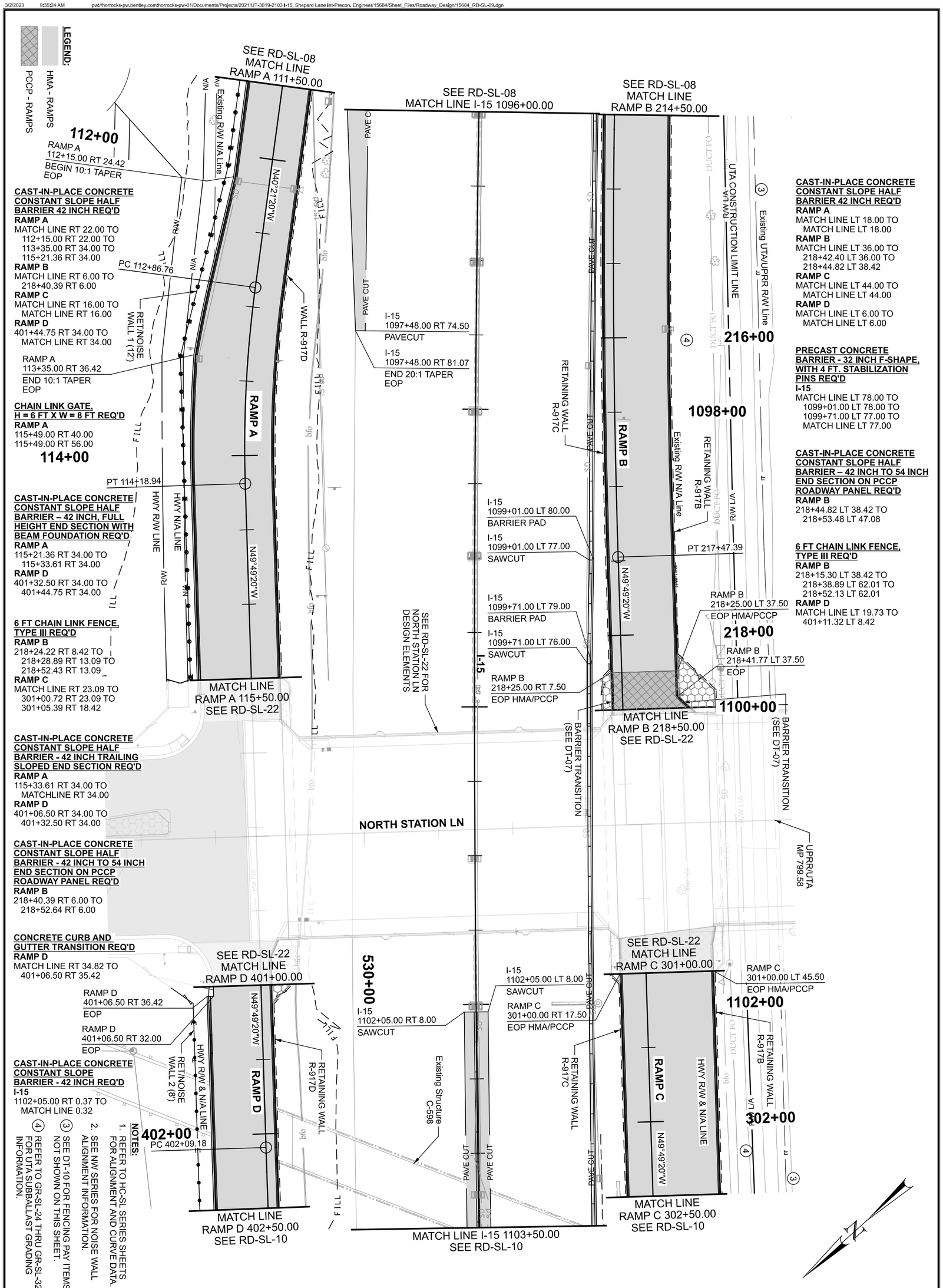
EXHIBIT A



SHEET NO. RD-SL-08	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		MM/DD/YY DATE	QC CHECKED BY HB	

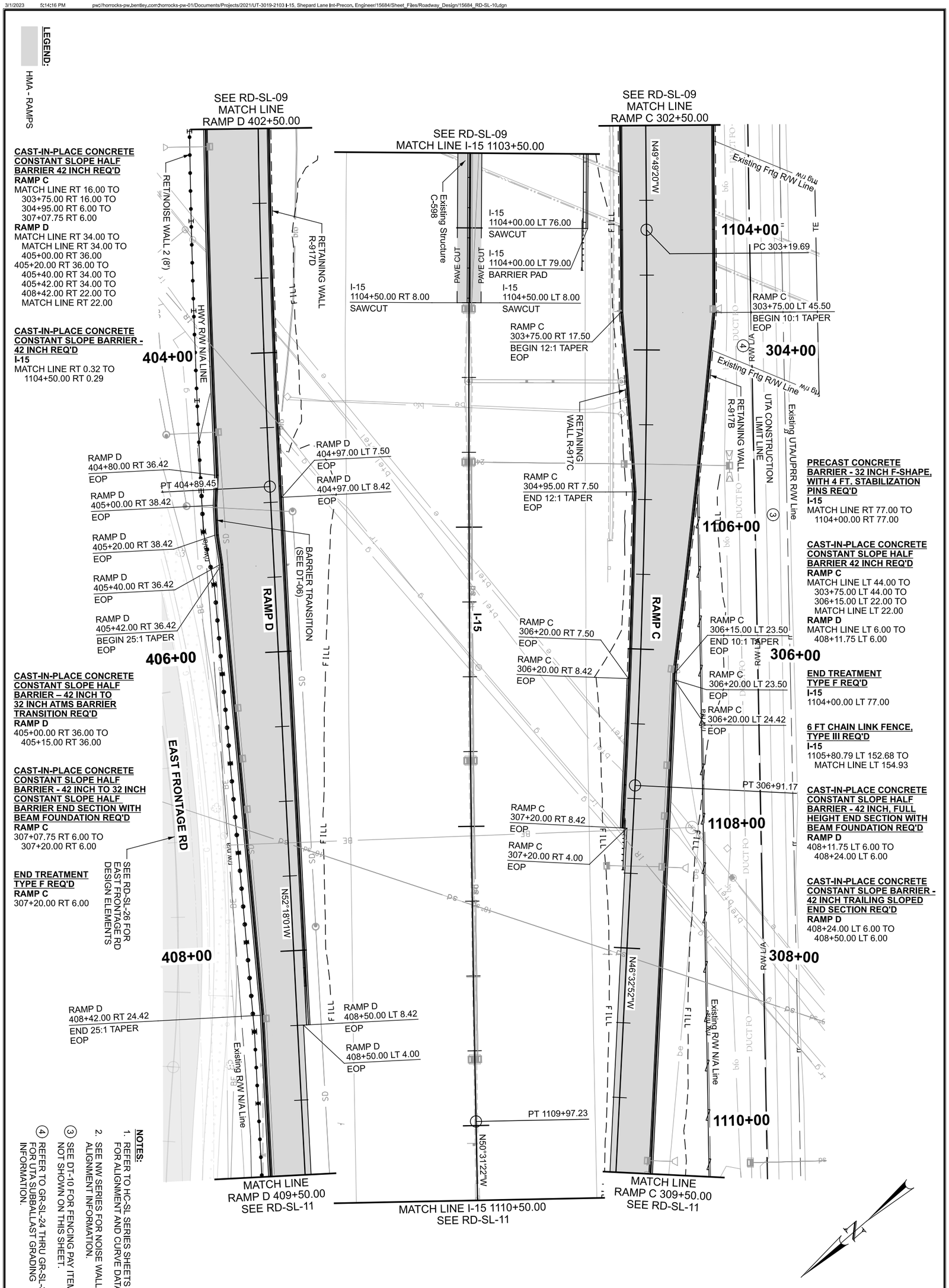
EXHIBIT A

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SHEET NO. RD-SL-09	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY HB	

EXHIBIT A



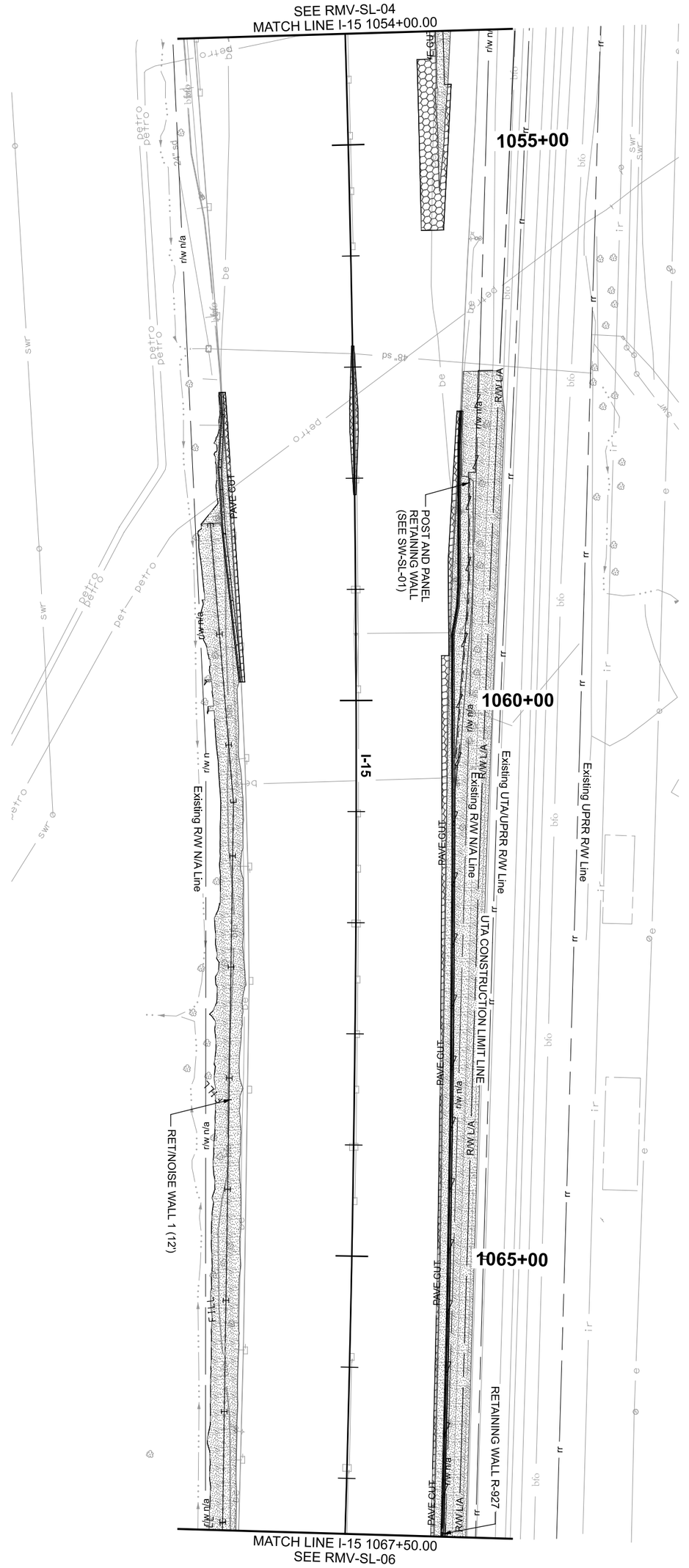
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	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED ..... PROFESSIONAL ENGINEER	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	ROADWAY		MM/DD/YY DATE	QC CHECKED BY HB	

EXHIBIT A

LEGEND:

REMOVE ASPHALT PAVEMENT REQ'D

CLEARING AND GRUBBING (PLAN QUANTITY) REQ'D



REMOVE PRECAST CONCRETE BARRIER REQ'D
I-15
1057+21.00 RT 117.18 TO
1059+83.00 RT 102.24

REMOVE TREE REQ'D
I-15
1058+50.00 RT 140.00 TO
1065+65.00 RT 110.00
(APPROX. 7 TREES)

REMOVE PRECAST CONCRETE BARRIER REQ'D
I-15
MATCH LINE LT 79.38 TO
1054+51.31 LT 79.43
1057+41.00 LT 95.25 TO
MATCH LINE LT 78.12

REMOVE FENCE REQ'D
I-15
1057+05.00 LT 125.50 TO
MATCHLINE LT 96.27

REMOVE CAST-IN-PLACE CONCRETE BARRIER REQ'D
I-15
1057+07.50 LT 0.24 TO
1058+06.50 LT 0.21

REMOVE TREE REQ'D
I-15
1060+20.00 LT 100.00 TO
1061+20.00 LT 100.00
(APPROX. 4 TREES)

NOTES:

1. SEE DR-SL SERIES SHEETS FOR ALL DRAINAGE REMOVALS AND RELOCATIONS.
2. SEE UR-SL SERIES SHEETS FOR ALL UTILITY REMOVALS AND RELOCATIONS.
3. SEE SS-SL SERIES SHEETS FOR ALL SIGNING REMOVALS AND RELOCATIONS.

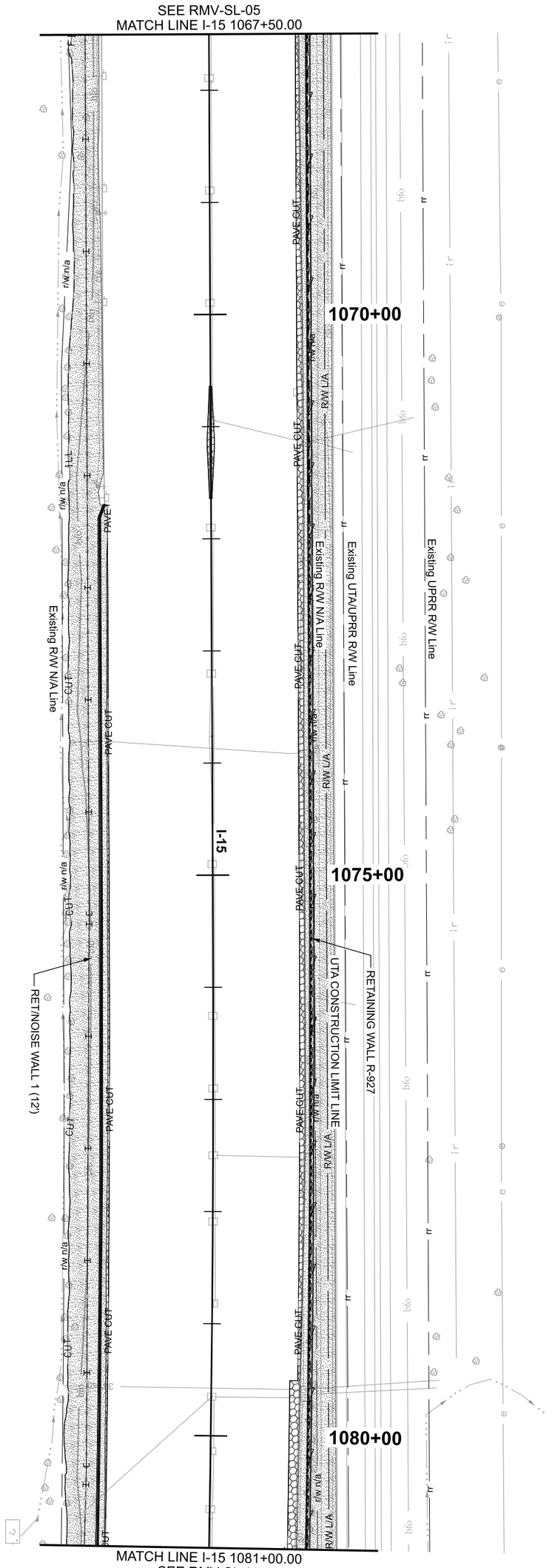
SHEET NO. RMV-SL-05	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	REMOVAL		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY KLY	

EXHIBIT A

LEGEND:

REMOVE ASPHALT PAVEMENT REQ'D

CLEARING AND GRUBBING (PLAN QUANTITY) REQ'D



REMOVE TREE REQ'D
I-15
1068+25.00 RT 110.00 TO
1068+60.00 RT 115.00
(APPROX. 2 TREES)

REMOVE FENCE REQ'D
I-15
MATCHLINE LT 96.27 TO
MATCHLINE LT 100.40

REMOVE PRECAST CONCRETE BARRIER REQ'D
I-15
MATCH LINE LT 78.12 TO
MATCH LINE LT 75.83

REMOVE CAST-IN-PLACE CONCRETE BARRIER REQ'D
I-15
1070+49.83 RT 0.02 TO
1071+48.80 RT 0.24

REMOVE TREE REQ'D
I-15
1076+25.00 LT 90.00 TO
MATCH LINE LT 90.00
(APPROX. 13 TREES)

NOTES:

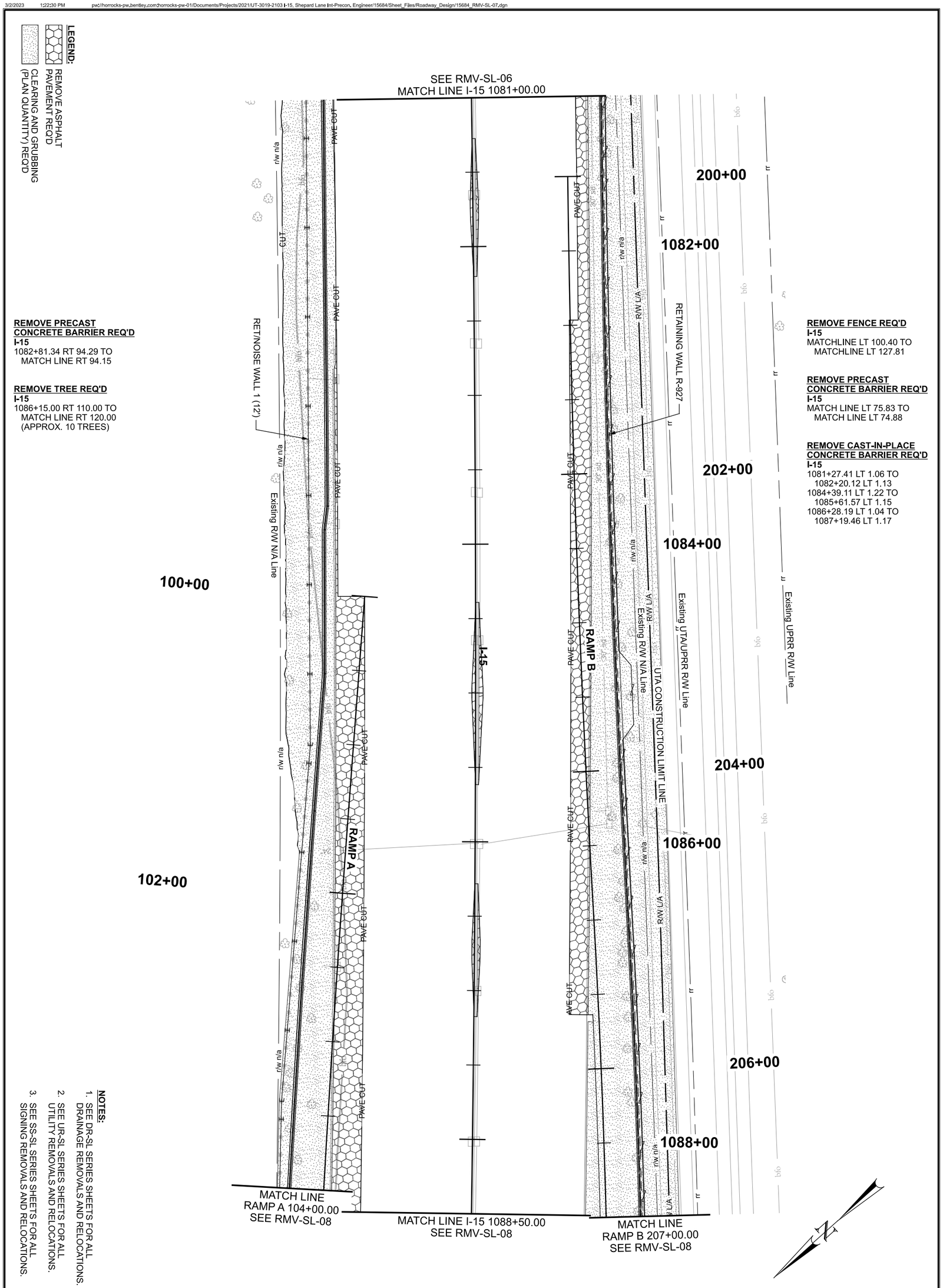
1. SEE DR-SL SERIES SHEETS FOR ALL DRAINAGE REMOVALS AND RELOCATIONS.
2. SEE UP-SL SERIES SHEETS FOR ALL UTILITY REMOVALS AND RELOCATIONS.
3. SEE SS-SL SERIES SHEETS FOR ALL SIGNING REMOVALS AND RELOCATIONS.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	**UTAH DEPARTMENT OF TRANSPORTATION** HORROCKS ENGINEERS	REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED ..... PROFESSIONAL ENGINEER	DRAWN BY KKH
	REMOVAL	MM/DD/YY DATE	QC CHECKED BY KLY

NO.	DATE	APPROVED BY	REMARKS

SHEET NO. RMV-SL-06

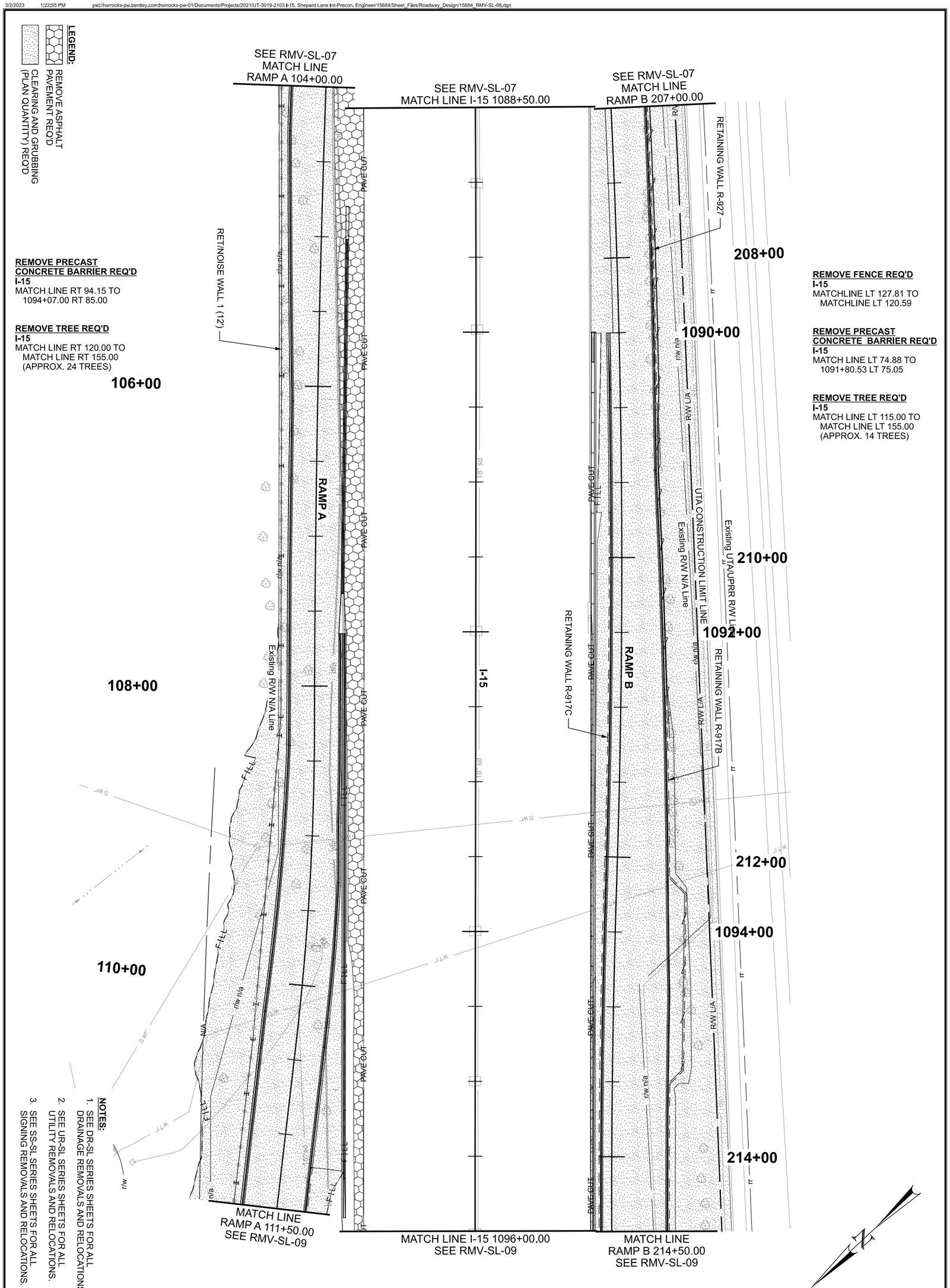
EXHIBIT A



PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS			REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY	KKH	NO. DATE APPROVED BY REMARKS
	REMOVAL	PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY	KLY	

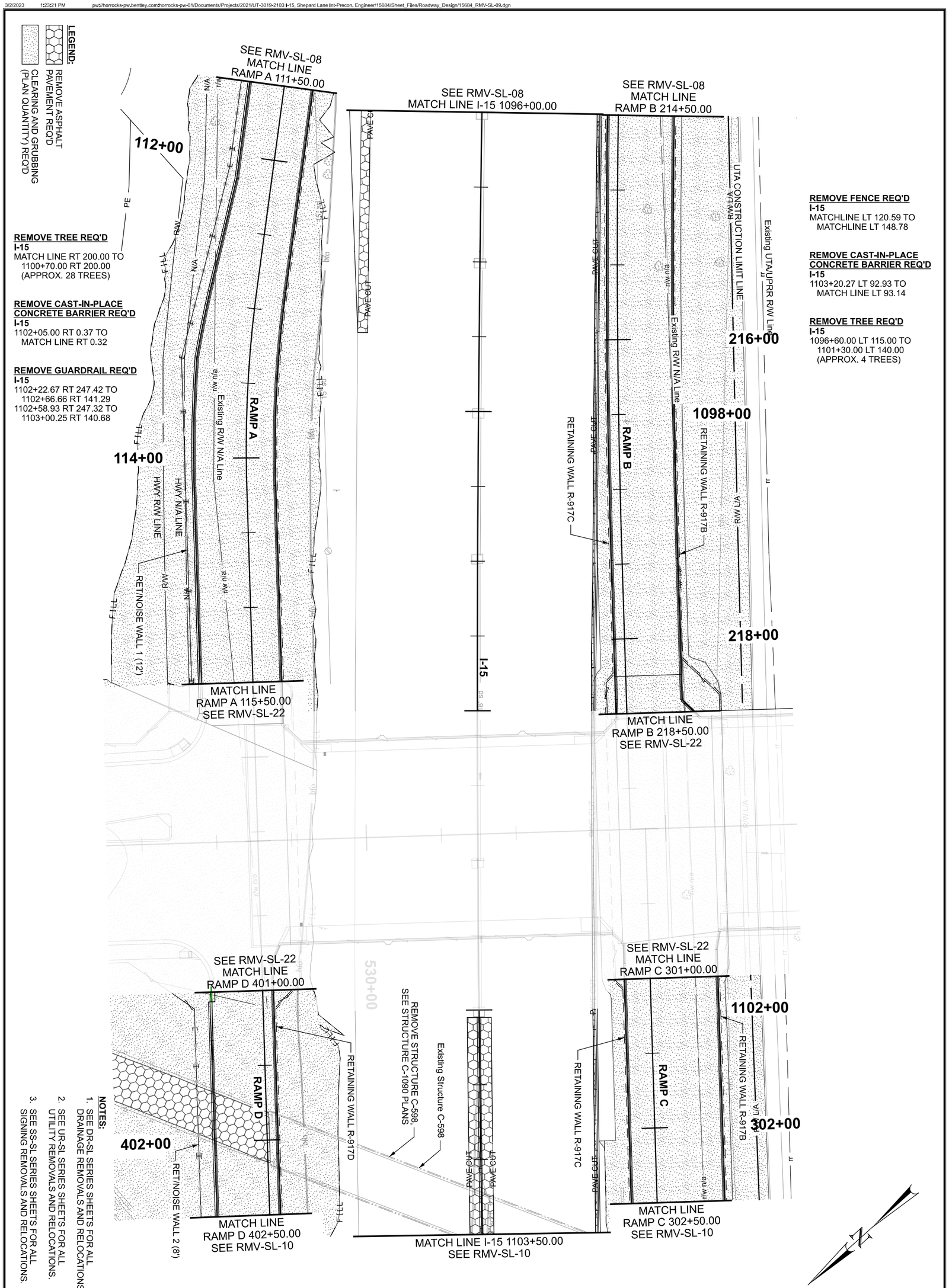
SHEET NO. RMV-SL-07

EXHIBIT A



SHEET NO. RMV-SL-08	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	REMOVAL		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY KLY	

EXHIBIT A



NOTES:

1. SEE DR-SL SERIES SHEETS FOR ALL DRAINAGE REMOVALS AND RELOCATIONS.
2. SEE UR-SL SERIES SHEETS FOR ALL UTILITY REMOVALS AND RELOCATIONS.
3. SEE SS-SL SERIES SHEETS FOR ALL SIGNING REMOVALS AND RELOCATIONS.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS			
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED		DRAWN BY	KKH
REMOVAL		PROFESSIONAL ENGINEER	MM/DD/YY DATE	QC CHECKED BY	KLY

REVISIONS			
NO.	DATE	APPROVED BY	REMARKS

SHEET NO. RMV-SL-09

EXHIBIT A

LEGEND:

REMOVE ASPHALT PAVEMENT REQ'D

CLEARING AND GRUBBING (PLAN QUANTITY) REQ'D

SEE RMV-SL-09 MATCH LINE RAMP D 402+50.00

SEE RMV-SL-09 MATCH LINE I-15 1103+50.00

SEE RMV-SL-09 MATCH LINE RAMP C 302+50.00

RETAINING WALL R-917D

REMOVE STRUCTURE C-598 SEE STRUCTURE C-1090 PLANS

Existing Structure C-598

RETAINING WALL R-917C

Existing Frtg R/W Line

404+00

406+00

1104+00

304+00

1106+00

306+00

1108+00

308+00

1110+00

RET/NOISE WALL 2 (8')

REMOVE NOISEWALL REQ'D
RAMP D
402+76.21 LT 4.00 TO MATCHLINE RT 28.61

REMOVE CAST-IN-PLACE CONCRETE BARRIER REQ'D
I-15
MATCH LINE RT 0.32 TO 1104+50.00 RT 0.29

REMOVE FENCE REQ'D
I-15
MATCH LINE LT 149.20 TO MATCH LINE LT 154.72

REMOVE CAST-IN-PLACE CONCRETE BARRIER REQ'D
I-15
MATCH LINE LT 93.14 TO 1106+09.34 LT 93.10

RETAINING WALL R-917B

Existing UTA/UPRR R/W Line

Existing R/W N/A Line

RAMP D

RAMP C

I-15

UTA CONSTRUCTION LIMIT LINE

EAST FRONTAGE RD

SEE RMV-SL-26 FOR EAST FRONTAGE ROAD REMOVAL ITESM

MATCH LINE RAMP D 409+50.00 SEE RMV-SL-11

MATCH LINE I-15 1110+50.00 SEE RMV-SL-11

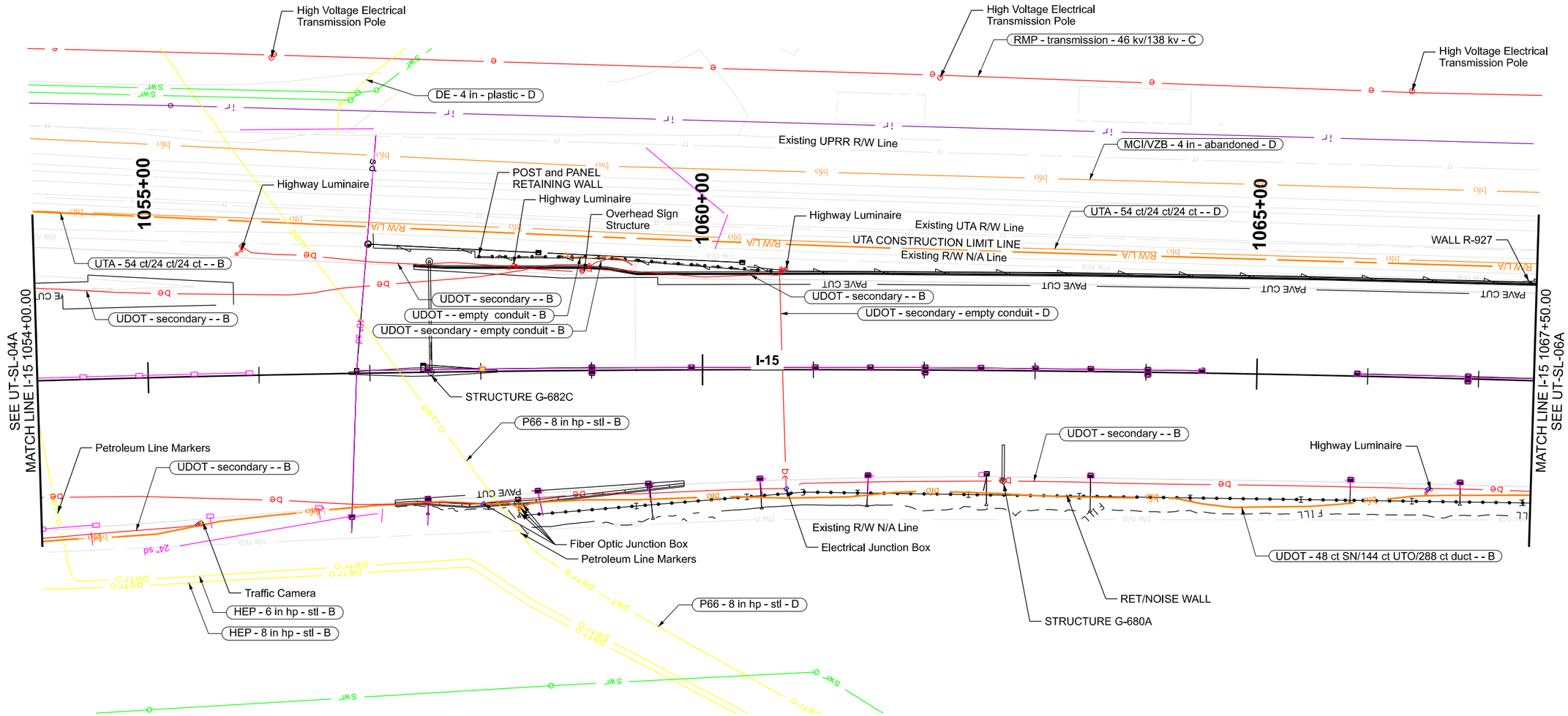
MATCH LINE RAMP C 309+50.00 SEE RMV-SL-11

NOTES:

1. SEE DR-SL SERIES SHEETS FOR ALL DRAINAGE REMOVALS AND RELOCATIONS.
2. SEE UR-SL SERIES SHEETS FOR ALL UTILITY REMOVALS AND RELOCATIONS.
3. SEE SS-SL SERIES SHEETS FOR ALL SIGNING REMOVALS AND RELOCATIONS.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	**UTAH DEPARTMENT OF TRANSPORTATION** HORROCKS ENGINEERS	REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED ..... PROFESSIONAL ENGINEER	DRAWN BY KKH
	REMOVAL	MM/DD/YY DATE	QC CHECKED BY KLY
SHEET NO.	RMV-SL-10		NO. DATE APPROVED BY REMARKS

EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
2. SEE UT-SL-##B SHEETS FOR EXISTING WET UTILITY INFORMATION (IRRIGATION, SANITARY SEWER, WATER).
3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
4. SEE ATMS SHEETS FOR ATMS INFORMATION.
5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: WLS
DATE: MM/DD/YY
APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
UTILITY

SHEET NO. UT-SL-05A

2/16/2023 12:21:01 PM pw://horrocks-pw.bentley.com:horrocks-pw-2\0\Documents\Projects\2021\UT-20134-2103 I-15, Shepard Lane Int-Precon, Engineer\15684\Sheet Files\UI\15684_UT-SL-05A.dgn

EXHIBIT A

WBWCD - 16 in - stl - D
CDSD - 18 in - con - C
CDSD - 30 in - con - C
Sanitary Sewer Manhole
CDSD - 30 in - con - C
WBWCD - 16 in - stl - D
Irrigation Manhole
Existing UPRR R/W Line
POST AND PANEL RETAINING WALL
1055+00
1060+00
1065+00
Existing UTA R/W Line
UTA CONSTRUCTION LIMIT LINE
Existing R/W N/A Line
WALL R-927
PAVE CUT
I-15
STRUCTURE G-682C
SEE UT-SL-04B
MATCH LINE I-15 1054+00.00
MATCH LINE I-15 1067+50.00
SEE UT-SL-06B
Existing R/W N/A Line
STRUCTURE G-680A
RET/NOISE WALL
Sanitary Sewer Manhole
CDSD - 8 in - con - C
CDSD - 8 in - con - C
Sanitary Sewer Manhole
Sanitary Sewer Manhole

UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
2. SEE UT-SL-##B SHEETS FOR EXISTING WET UTILITY INFORMATION (IRRIGATION, SANITARY SEWER, WATER).
3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
4. SEE ATMS SHEETS FOR ATMS INFORMATION.
5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: WLS
DATE: MM/DD/YY

APPROVED

PROFESSIONAL ENGINEER

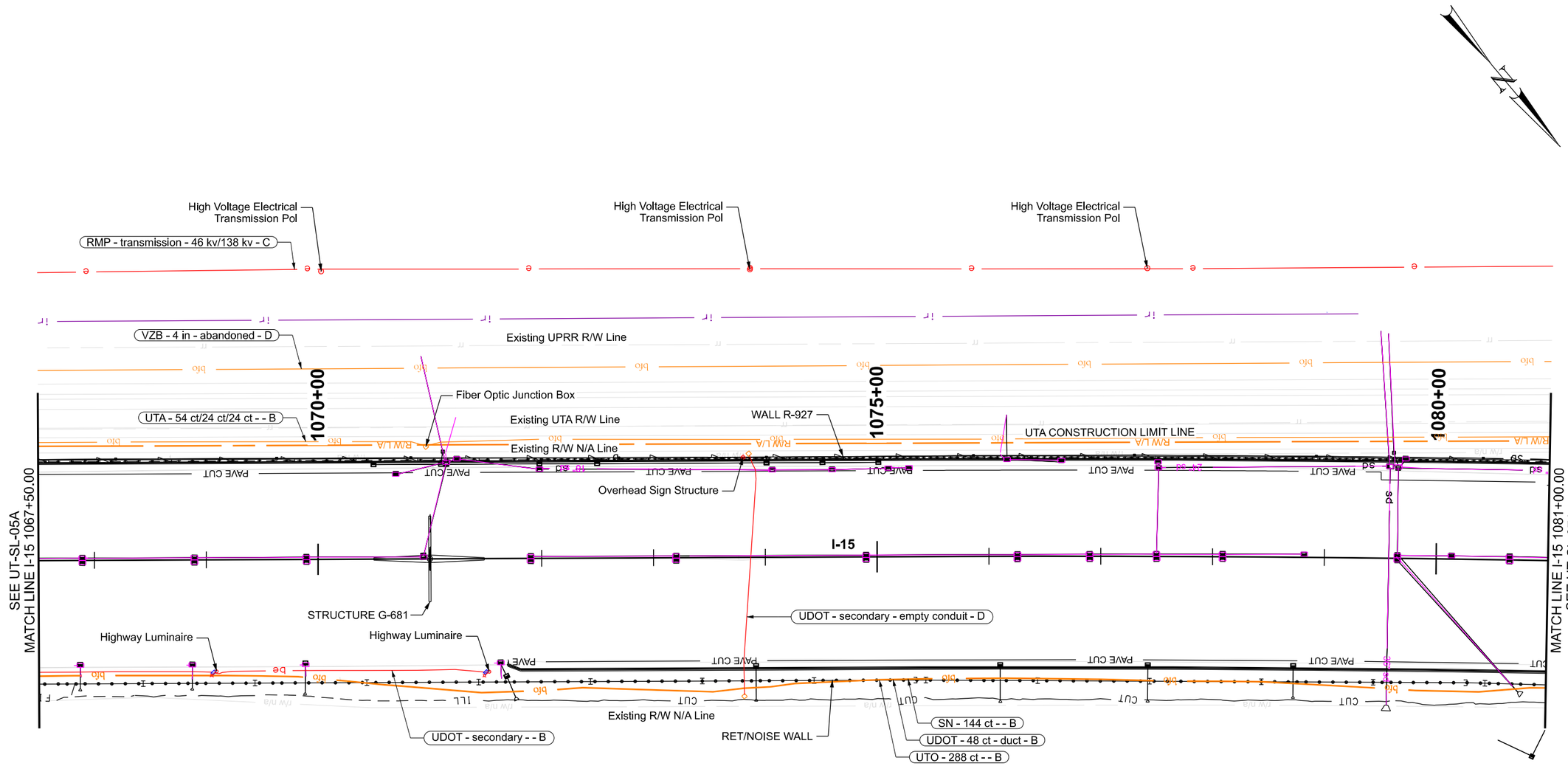
PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684

UTILITY

SHEET NO. UT-SL-05B

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
2. SEE UT-SL-##B SHEETS FOR EXISTING WET UTILITY INFORMATION (IRRIGATION, SANITARY SEWER, WATER).
3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
4. SEE ATMS SHEETS FOR ATMS INFORMATION.
5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: WLS
DATE: MM/DD/YY

APPROVED

PROFESSIONAL ENGINEER

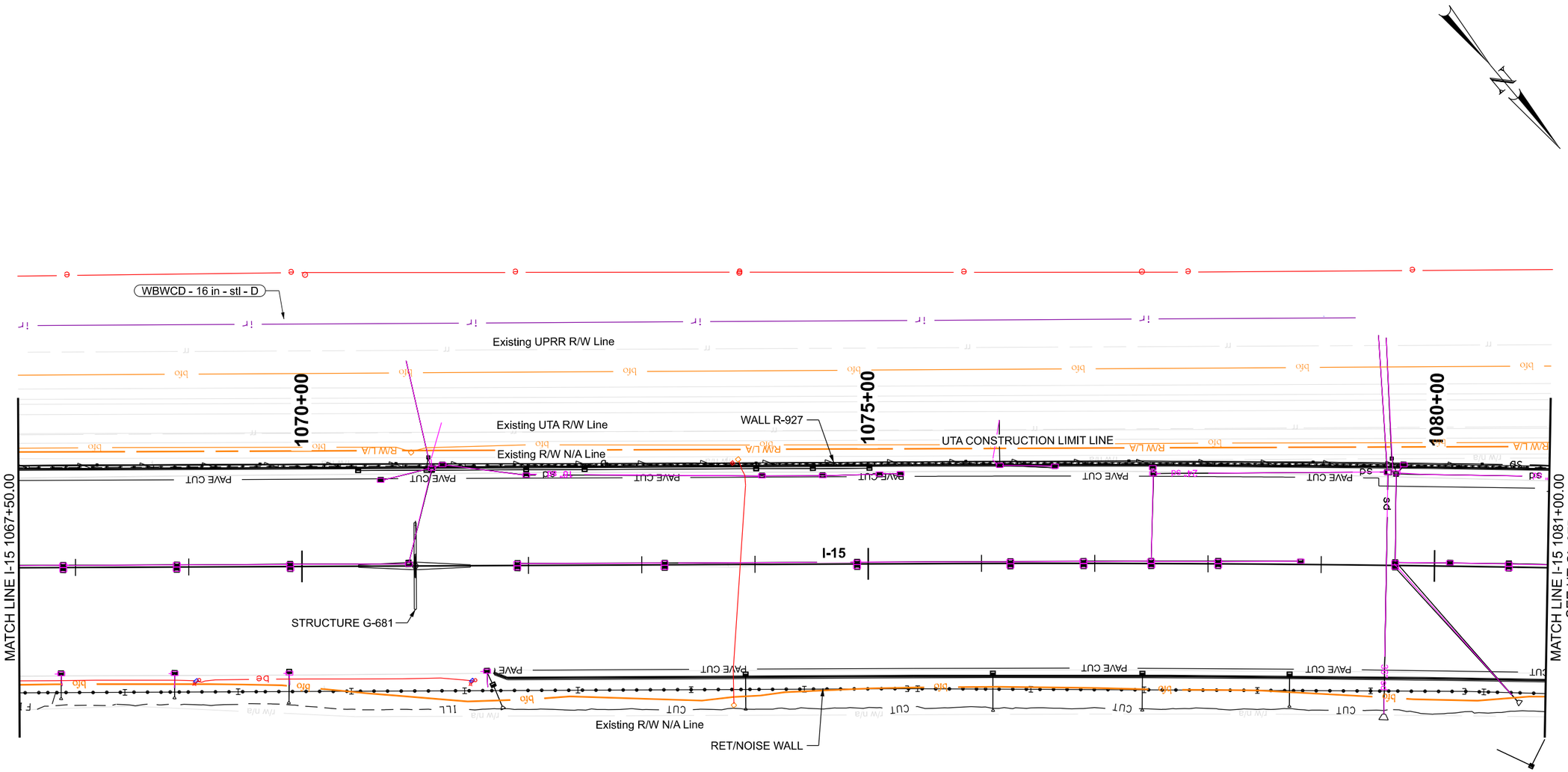
PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684

UTILITY

SHEET NO. UT-SL-06A

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
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5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY: KKH
CHECKED BY: WLS
QC
DATE: MM/DD/YY

APPROVED

PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT NUMBER: S-I15-7(340)325

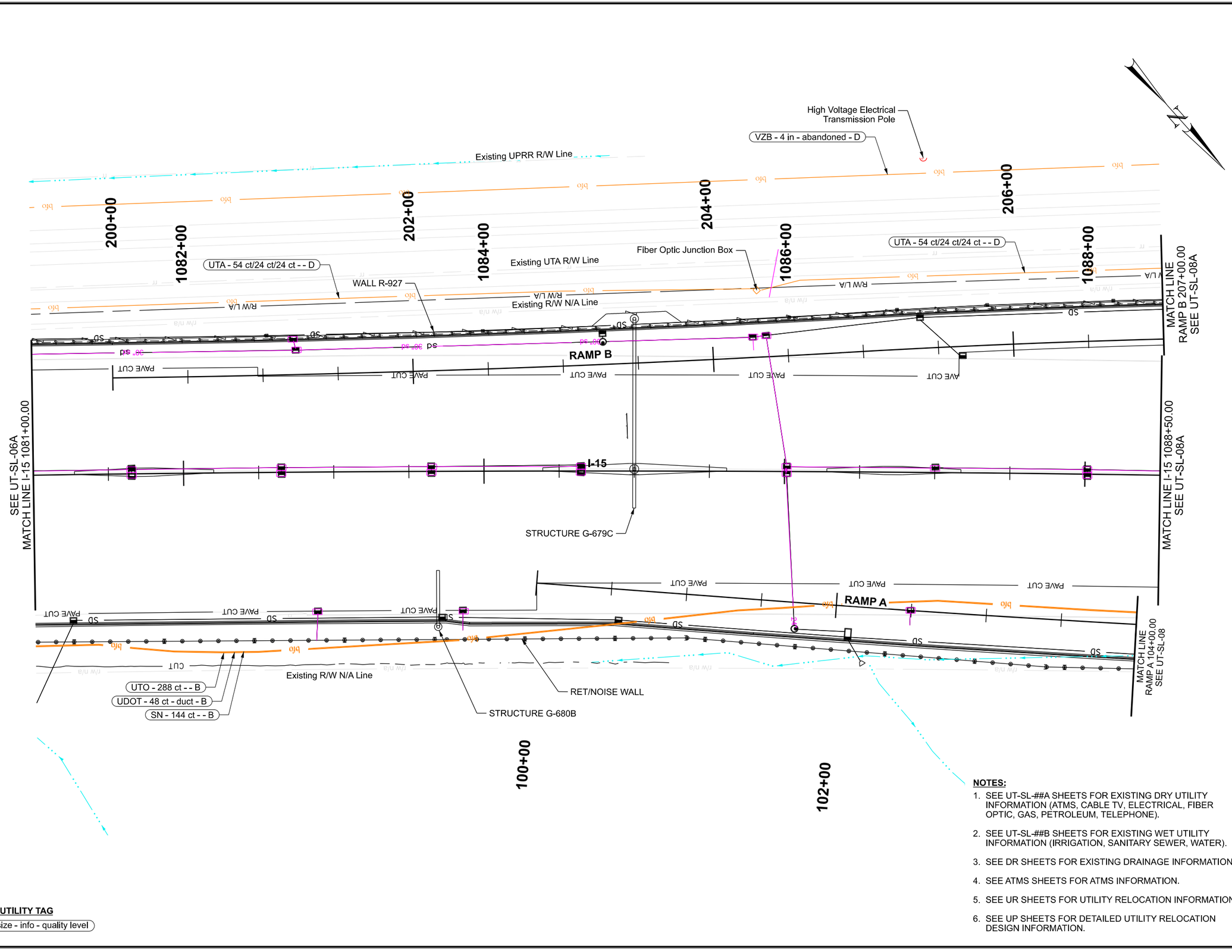
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UTILITY

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
4. SEE ATMS SHEETS FOR ATMS INFORMATION.
5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY KKH
QC CHECKED BY WLS
DATE MM/DD/YY

APPROVED

PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT

PROJECT NUMBER S-I15-7(340)325

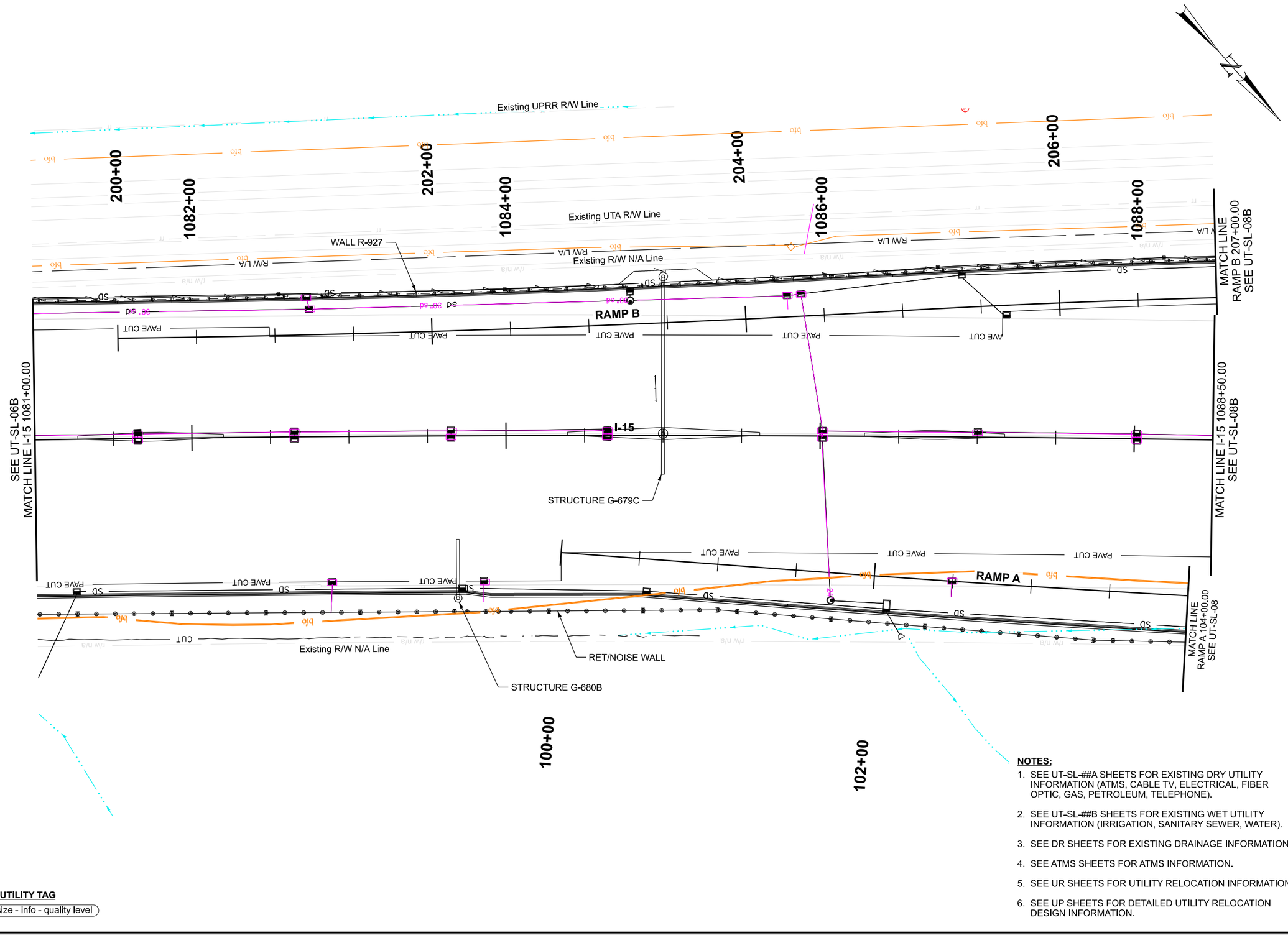
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UTILITY

SHEET NO. UT-SL-07A

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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3. SEE DR SHEETS FOR EXISTING DRAINAGE INFORMATION.
4. SEE ATMS SHEETS FOR ATMS INFORMATION.
5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

APPROVED

PROFESSIONAL ENGINEER

DRAWN BY KKH

QC CHECKED BY WLS

DATE MM/DD/YY

I-15; SHEPARD LN INTCHG & PED OVERPASS

PIN 15684

S-I15-7(340)325

UTILITY

PROJECT

PROJECT NUMBER

SHEET NO. UT-SL-07B

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EXHIBIT A

SEE UT-SL-07A
MATCH LINE
RAMP B 207+00.00

SEE UT-SL-07A
MATCH LINE I-15 1088+50.00

SEE UT-SL-07
MATCH LINE
RAMP A 104+00.00

MATCH LINE
RAMP B 214+50.00
SEE UT-SL-09A

MATCH LINE I-15 1096+00.00
SEE UT-SL-09A

MATCH LINE
RAMP A 111+50.00
SEE UT-SL-09

208+00 | 1090+00 | 210+00 | 1092+00 | 212+00 | 1094+00 | 214+00

106+00 | 108+00 | 110+00

UTA - 54 ct/24 ct/24 ct - - D

WALL R-927

Existing UTA R/W Line

Existing R/W N/A Line

RAMP B

RAMP A

I-15

WALL R-917B

WALL R-917C

TH-001D
TH-001C
TH-001B
TH-001
TH-001A
TH-003A
TH-003
TH-001B
TH-001C

UTO-288 ct- -B
UDOT-48 ct- -B
SN-144 ct- -B
Fiber Optic Manhole

Electrical/ATMS
Junction Box
Traffic Camera

TH-047
TH-047A
TH-047C
TH-047B

UDOT-secondary- -B

RET/NOISE WALL

Existing R/W N/A Line

UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DESIGNED BY KKH
DRAWN BY
QC CHECKED BY WLS

MM/DD/YY
DATE

APPROVED

PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG &
PED OVERPASS

PROJECT

PROJECT NUMBER S-I15-7(340)325

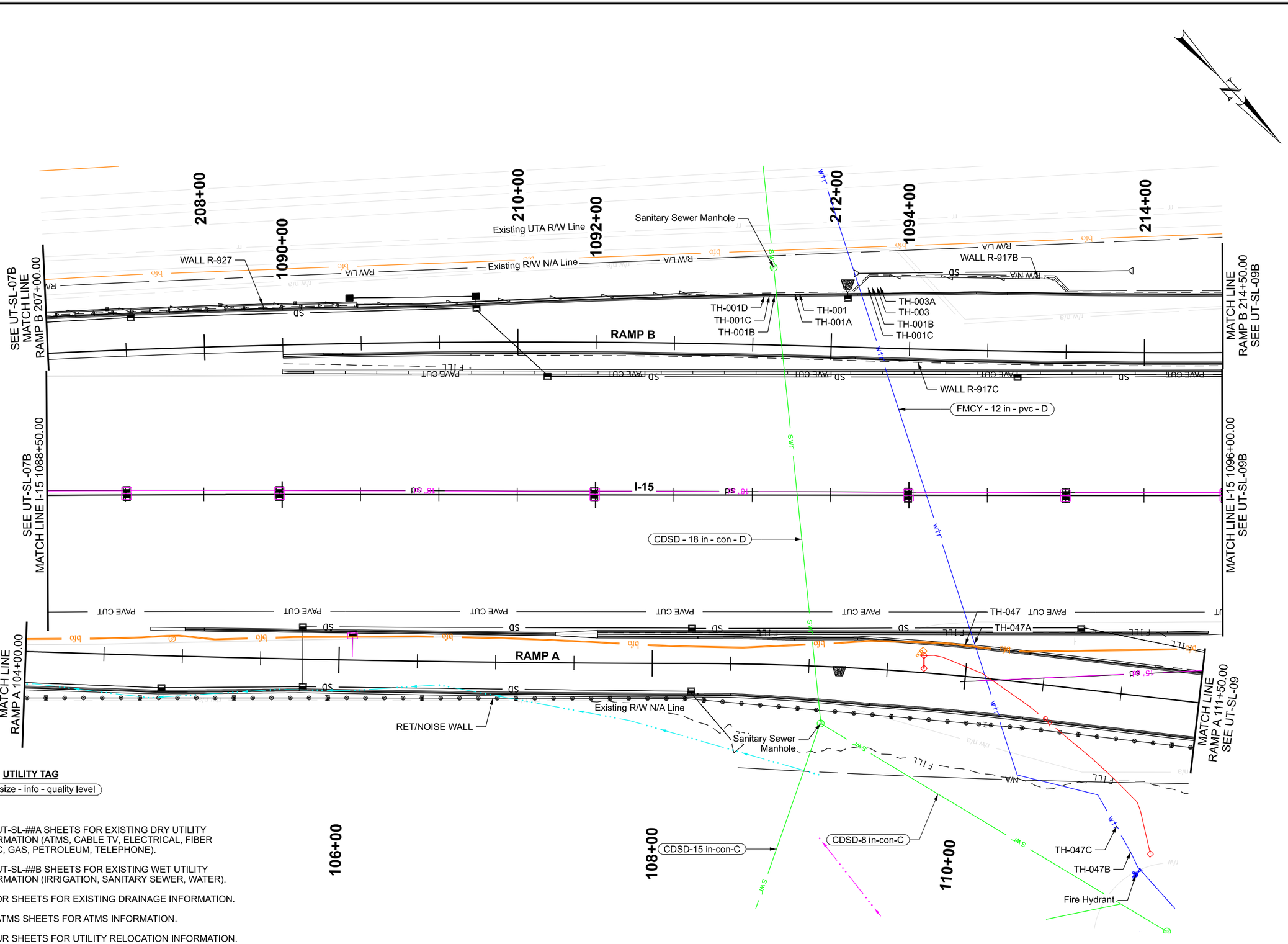
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UTILITY

SHEET NO. UT-SL-08A

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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6. SEE UP SHEETS FOR DETAILED UTILITY RELOCATION DESIGN INFORMATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

APPROVED

PROFESSIONAL ENGINEER

DRAWN BY KKH

QC CHECKED BY WLS

MM/DD/YY
DATE

I-15; SHEPARD LN INTCHG &
PED OVERPASS

PROJECT

PROJECT NUMBER S-I15-7(340)325

PIN 15684

UTILITY

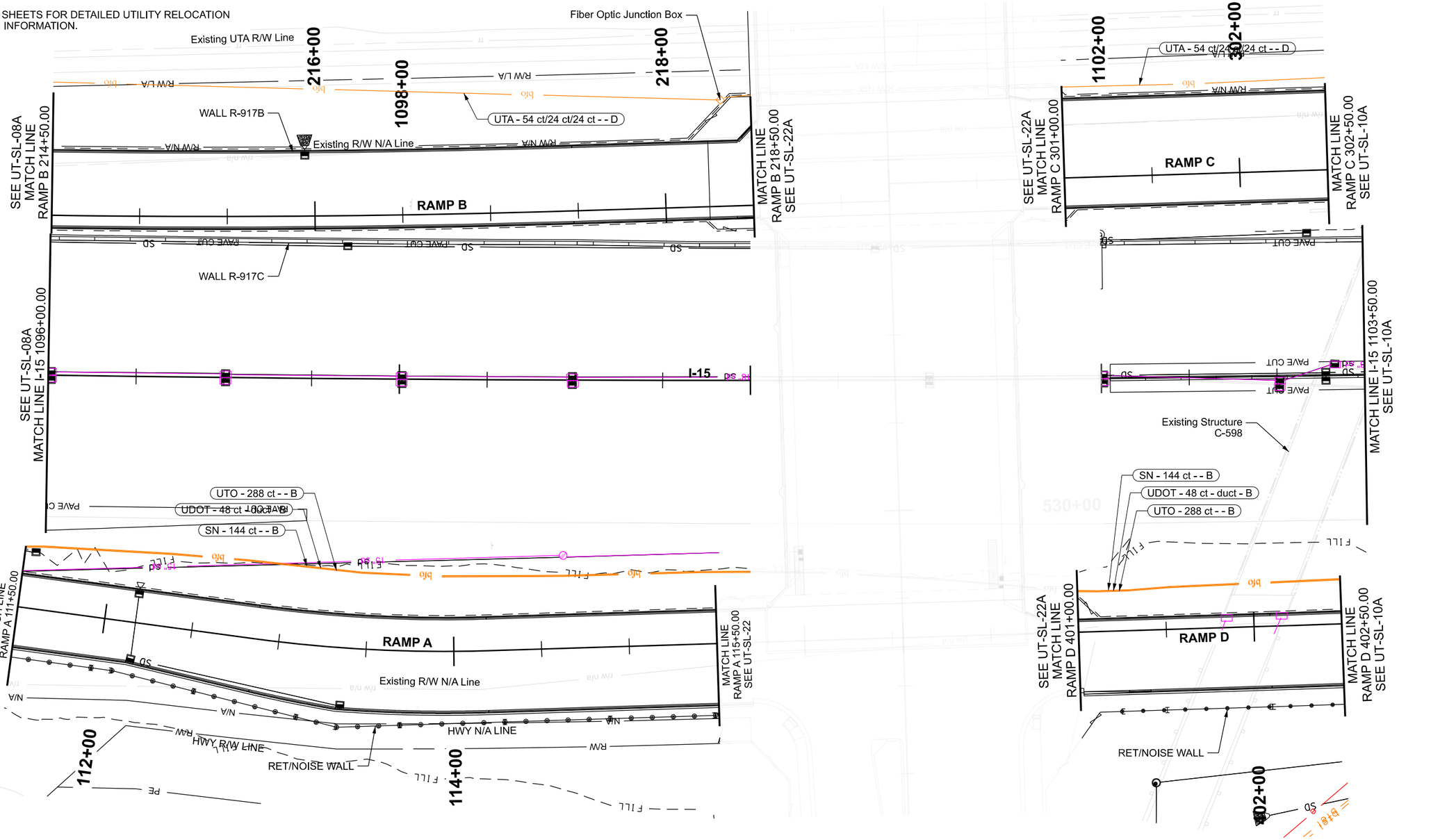
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EXHIBIT A

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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5. SEE UR SHEETS FOR UTILITY RELOCATION INFORMATION.
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UTILITY TAG

owner - size - info - quality level

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY	KKH	APPROVED	
QC CHECKED BY	WLS		
DATE	MM/DD/YY	PROFESSIONAL ENGINEER	

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	PIN	15684
PROJECT NUMBER	S-I15-7(340)325		
	UTILITY		

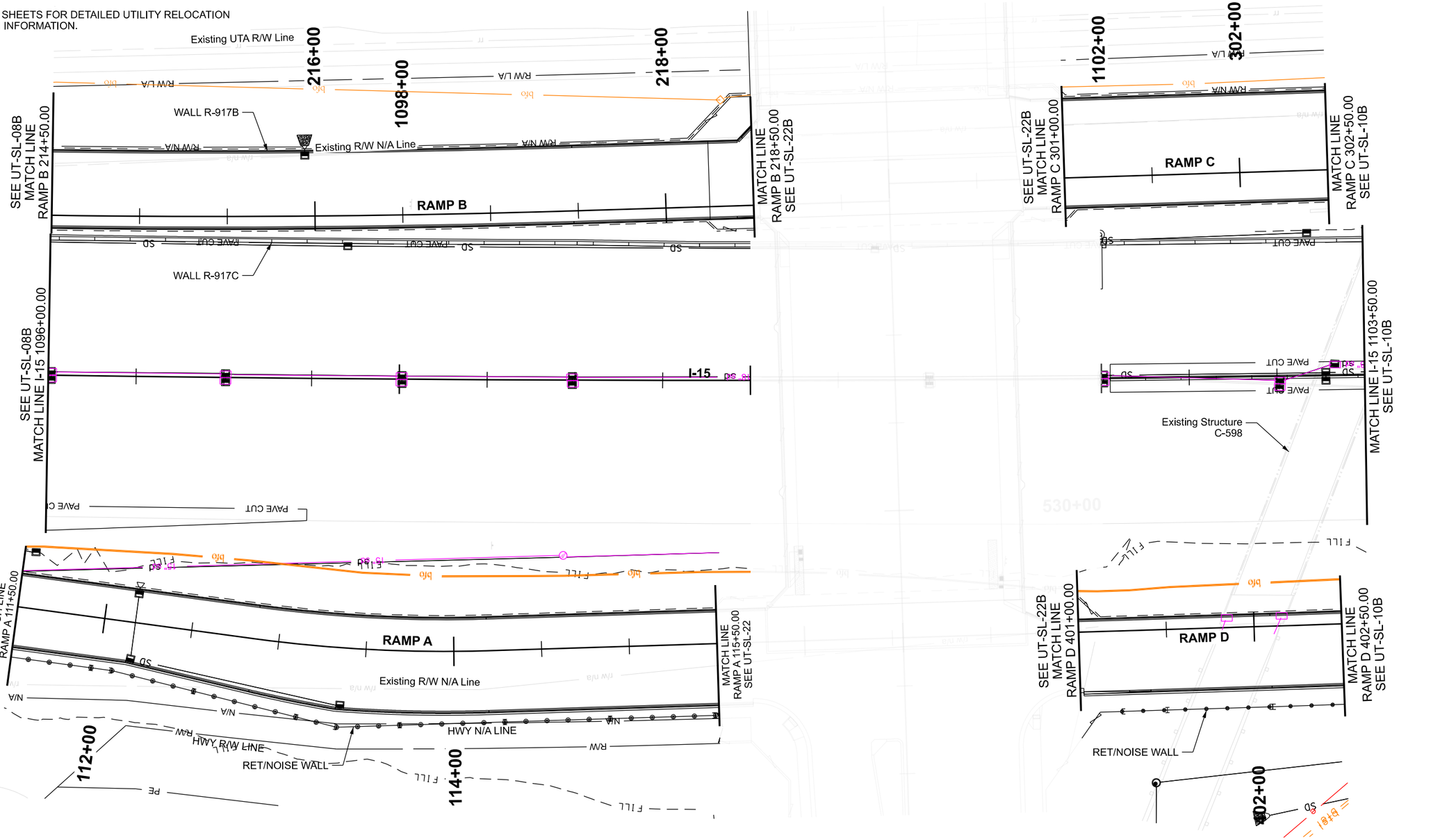
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EXHIBIT A

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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UTILITY TAG

owner - size - info - quality level

REVISIONS					
NO.	DATE	APPROVED BY	REMARKS		

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY	KKH
QC CHECKED BY	WLS
DATE	MM/DD/YY

APPROVED

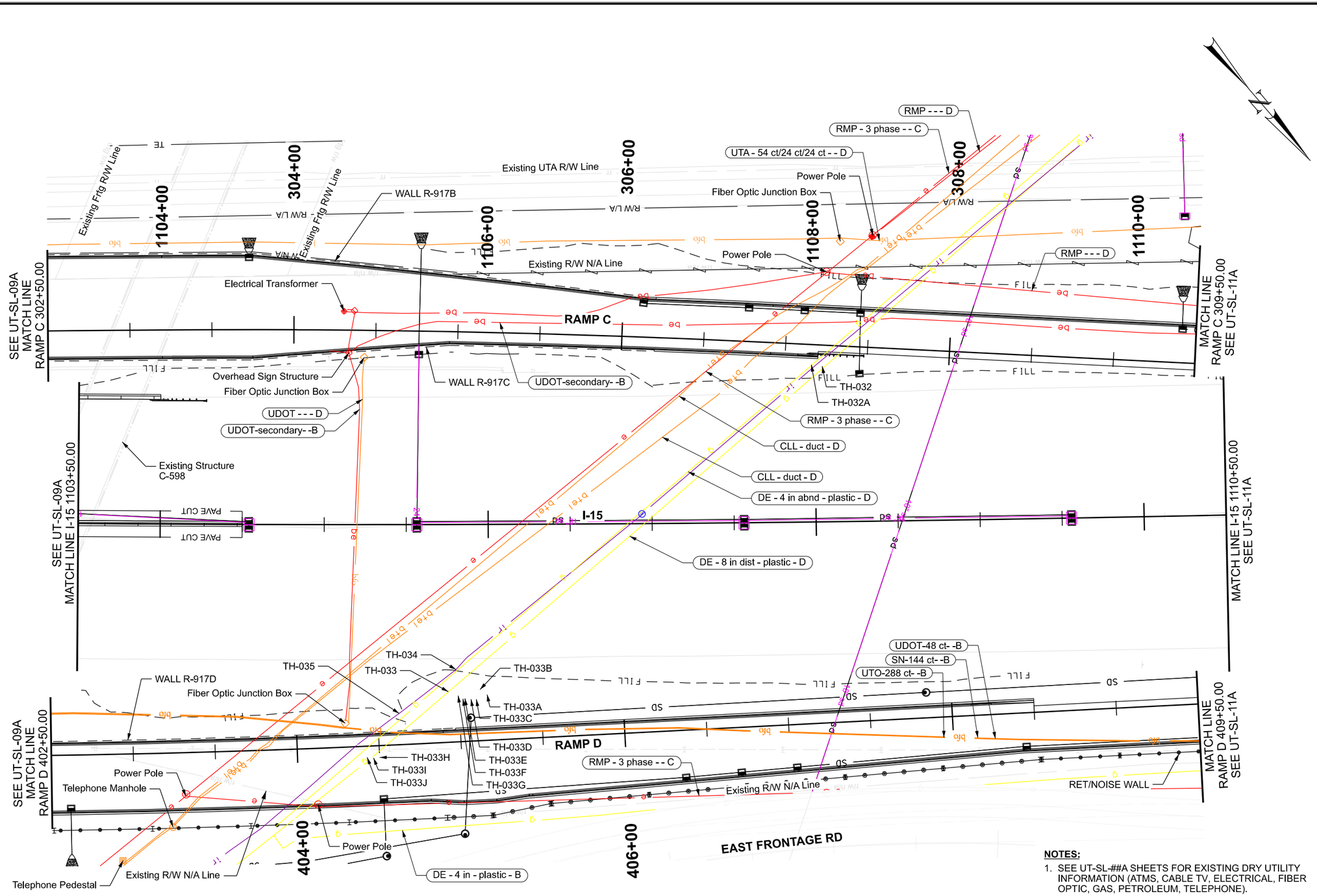
PROFESSIONAL ENGINEER

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER	S-I15-7(340)325
PIN	15684
	UTILITY

SHEET NO. UT-SL-09B

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

DRAWN BY KKH

QC CHECKED BY WLS

APPROVED

MM/DD/YY
DATE

PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT

PROJECT NUMBER S-I15-7(340)325

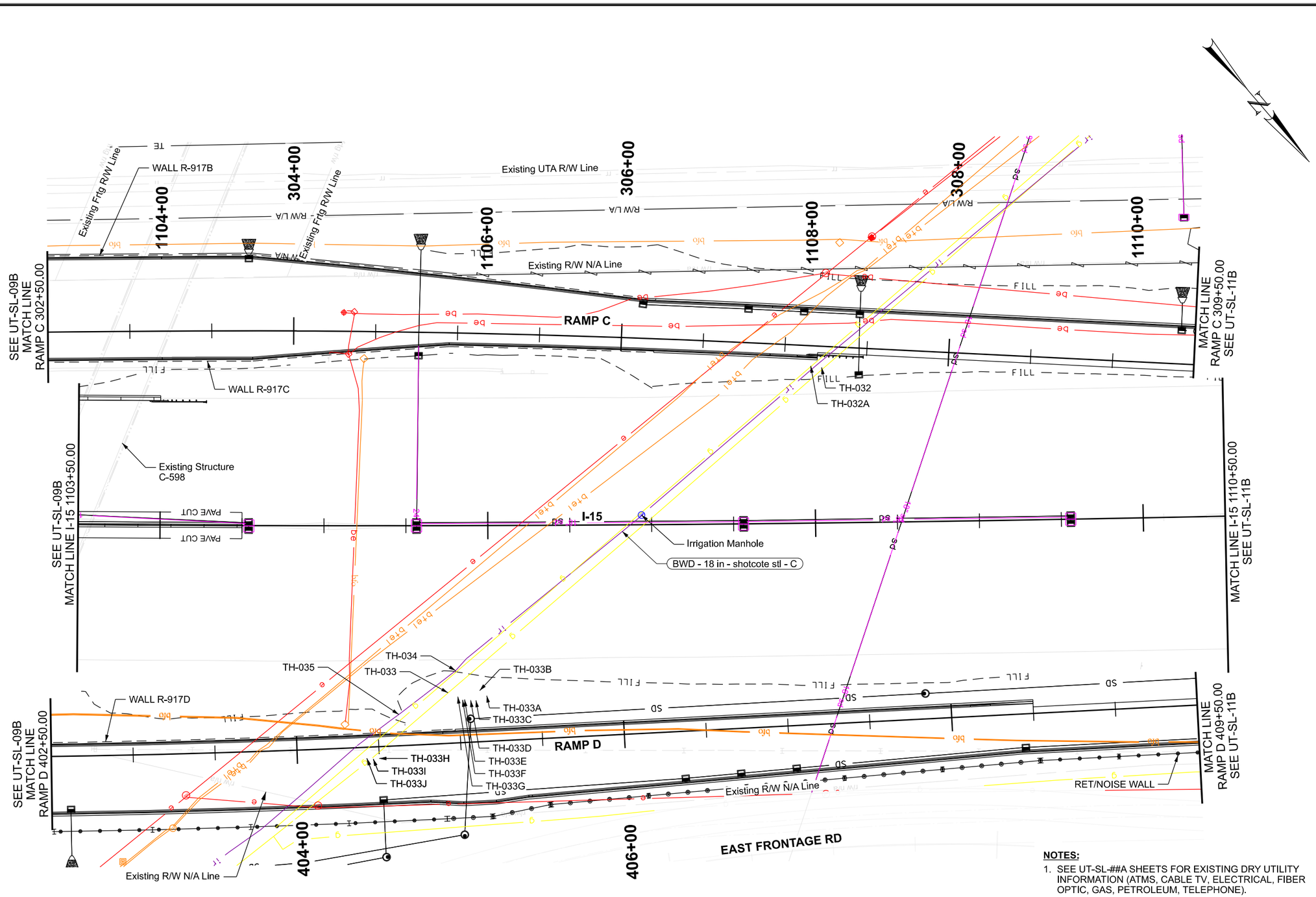
PIN 15684

UTILITY

SHEET NO. UT-SL-10A

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EXHIBIT A



UTILITY TAG

owner - size - info - quality level

NOTES:

1. SEE UT-SL-##A SHEETS FOR EXISTING DRY UTILITY INFORMATION (ATMS, CABLE TV, ELECTRICAL, FIBER OPTIC, GAS, PETROLEUM, TELEPHONE).
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REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

APPROVED

PROFESSIONAL ENGINEER

DRAWN BY KKH

QC CHECKED BY WLS

MM/DD/YY
DATE

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT

PROJECT NUMBER S-I15-7(340)325

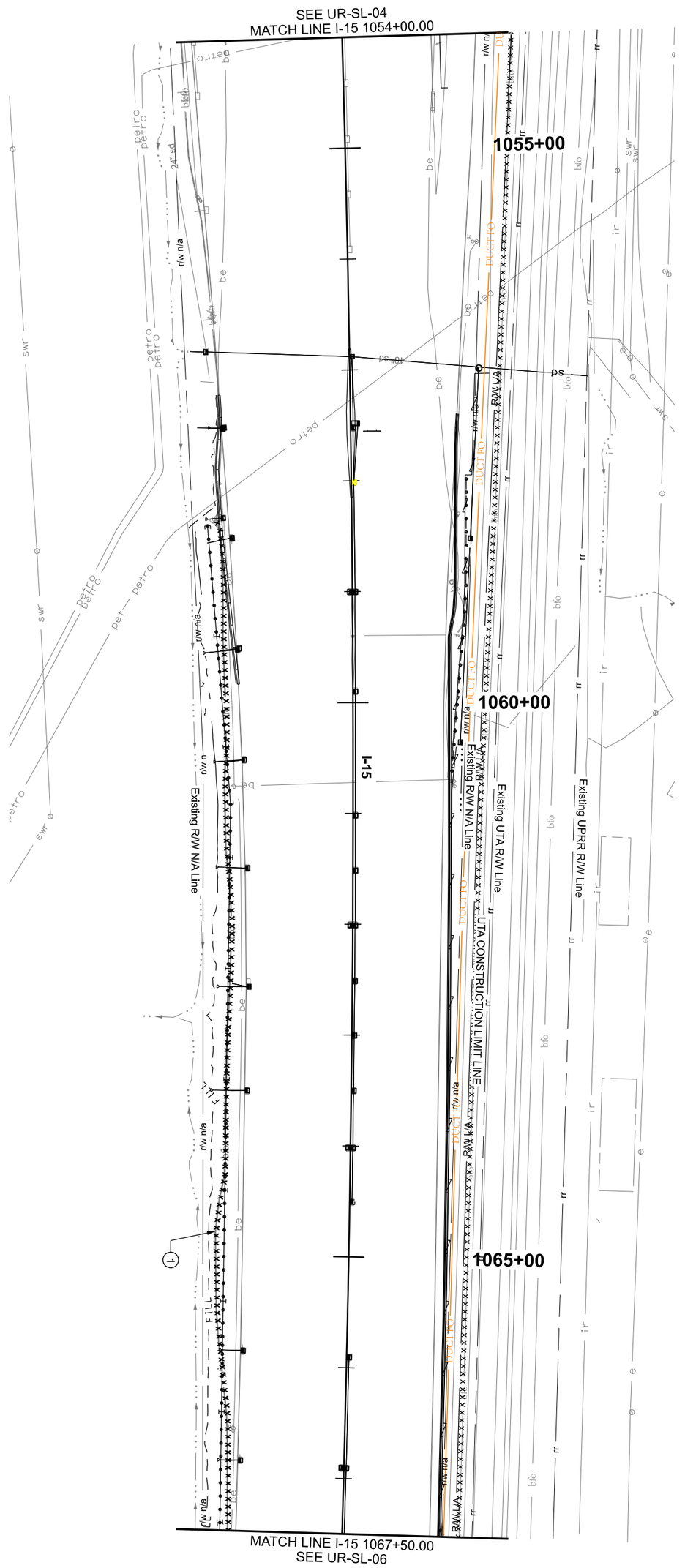
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UTILITY

SHEET NO. UT-SL-10B

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EXHIBIT A



RELOCATE BURIED FIBER OPTIC (SYRINGA)
I-15
1058+34.16 RT 123.28 TO MATCH LINE RT 102.95

RELOCATE BURIED FIBER OPTIC (UTOPIA)
I-15
1058+34.16 RT 123.28TO MATCH LINE RT 102.95

1D CONDUIT REQ'D
I-15
MATCH LINE LT 142.30 TO MATCH LINE LT 91.62

RELOCATE BURIED FIBER OPTIC (UTA)
I-15
MATCH LINE LT 153.30 TO MATCH LINE LT 105.58

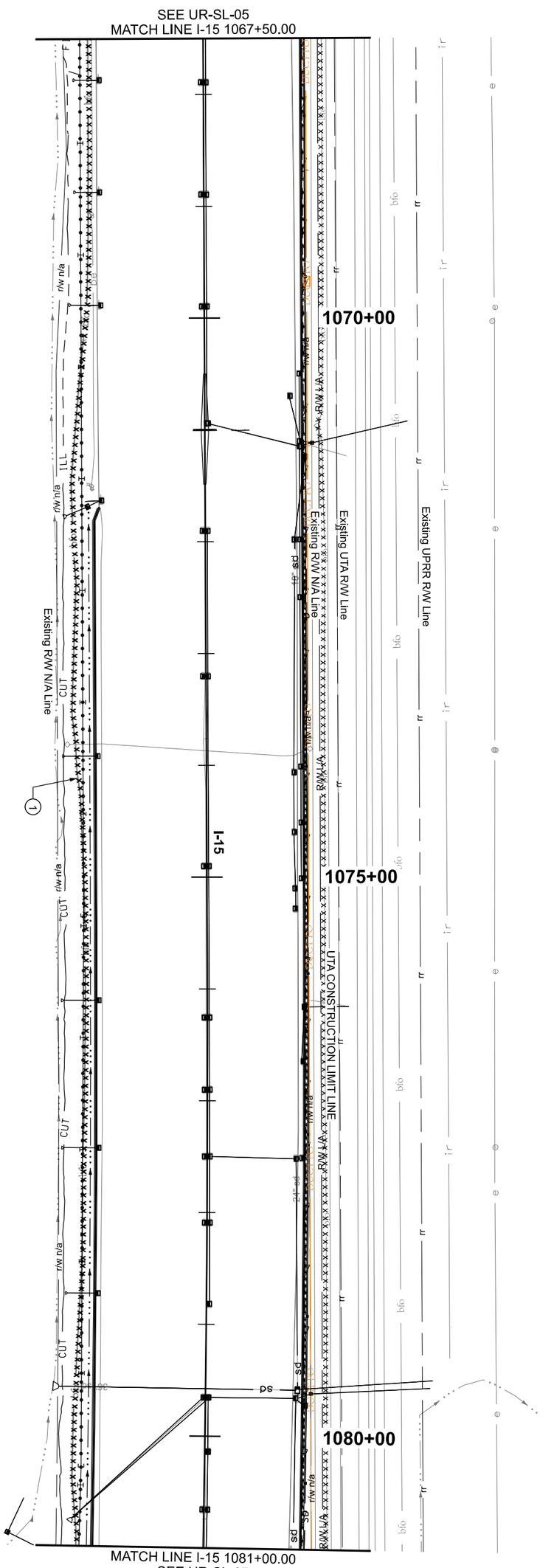
NOTES:

1. (1) BURIED FIBER OPTIC LINES RUN IN UDOT ATMS SYSTEM.
2. SEE ATMS SHEETS FOR ATMS REMOVALS AND RELOCATIONS.
3. PROPOSED ALIGNMENT OF UTA DUCT BANK IS 7.5' FROM CENTERLINE OF FUTURE SECOND FRONTRUNNER TRACK.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS			REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH		NO. DATE APPROVED BY REMARKS
	UTILITY RELOCATION	PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY TAS		

SHEET NO. UR-SL-05

EXHIBIT A



RELOCATE BURIED FIBER OPTIC (SYRINGA)
I-15
MATCH LINE RT 102.95 TO MATCH LINE RT 113.89

RELOCATE BURIED FIBER OPTIC (UTOPIA)
I-15
MATCH LINE RT 102.95 TO MATCH LINE RT 113.89

1D CONDUIT REQ'D
I-15
MATCH LINE LT 91.62 TO MATCH LINE LT 96.59

RELOCATE BURIED FIBER OPTIC (UTA)
I-15
MATCH LINE LT 105.58 TO MATCH LINE LT 110.62

POLYMER CONCRETE JUNCTION BOX TIER 22, TYPE II REQ'D
I-15
1069+67.43 LT 91.75

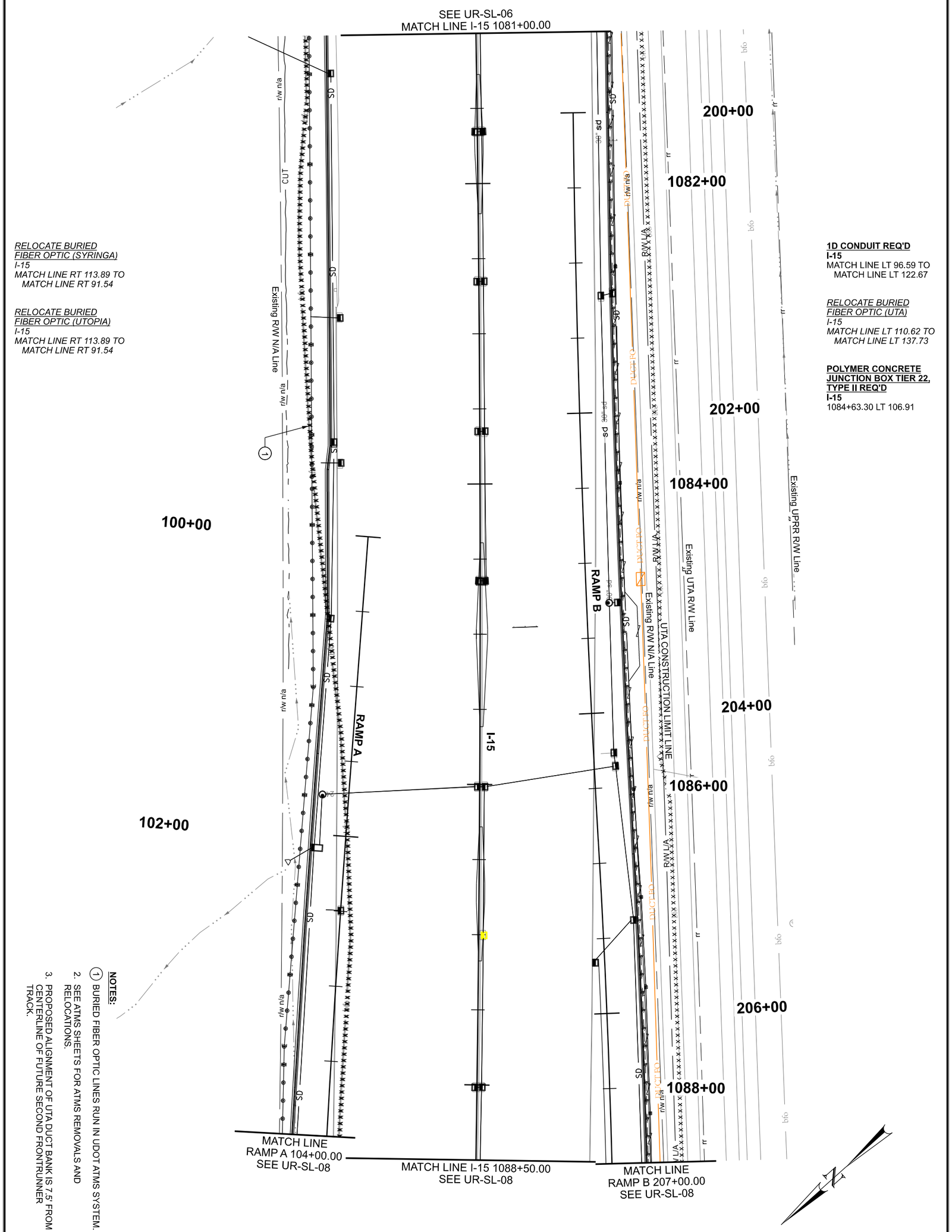
NOTES:

1. (1) BURIED FIBER OPTIC LINES RUN IN UDOT ATMS SYSTEM.
2. SEE ATMS SHEETS FOR ATMS REMOVALS AND RELOCATIONS.
3. PROPOSED ALIGNMENT OF UTA DUCT BANK IS 7.5' FROM CENTERLINE OF FUTURE SECOND FRONT RUNNER TRACK.

SHEET NO. UR-SL-06	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	UTILITY RELOCATION		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY TAS	

EXHIBIT A

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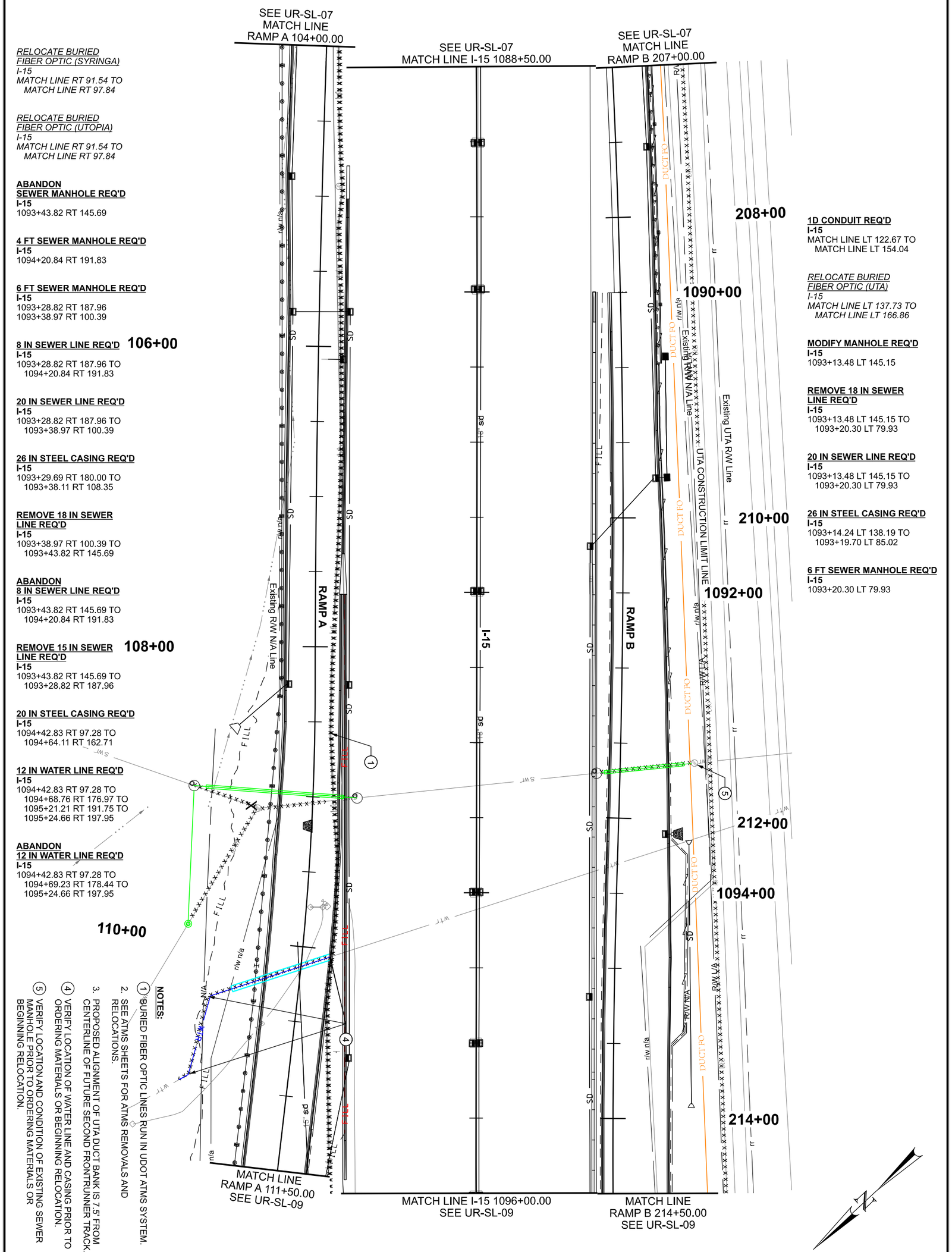
NOTES:

1. BURIED FIBER OPTIC LINES RUN IN UDOT ATMS SYSTEM.
2. SEE ATMS SHEETS FOR ATMS REMOVALS AND RELOCATIONS.
3. PROPOSED ALIGNMENT OF UTA DUCT BANK IS 7.5' FROM CENTERLINE OF FUTURE SECOND FRONTRUNNER TRACK.

SHEET NO. UR-SL-07 203	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	UTILITY RELOCATION		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY TAS	

EXHIBIT A

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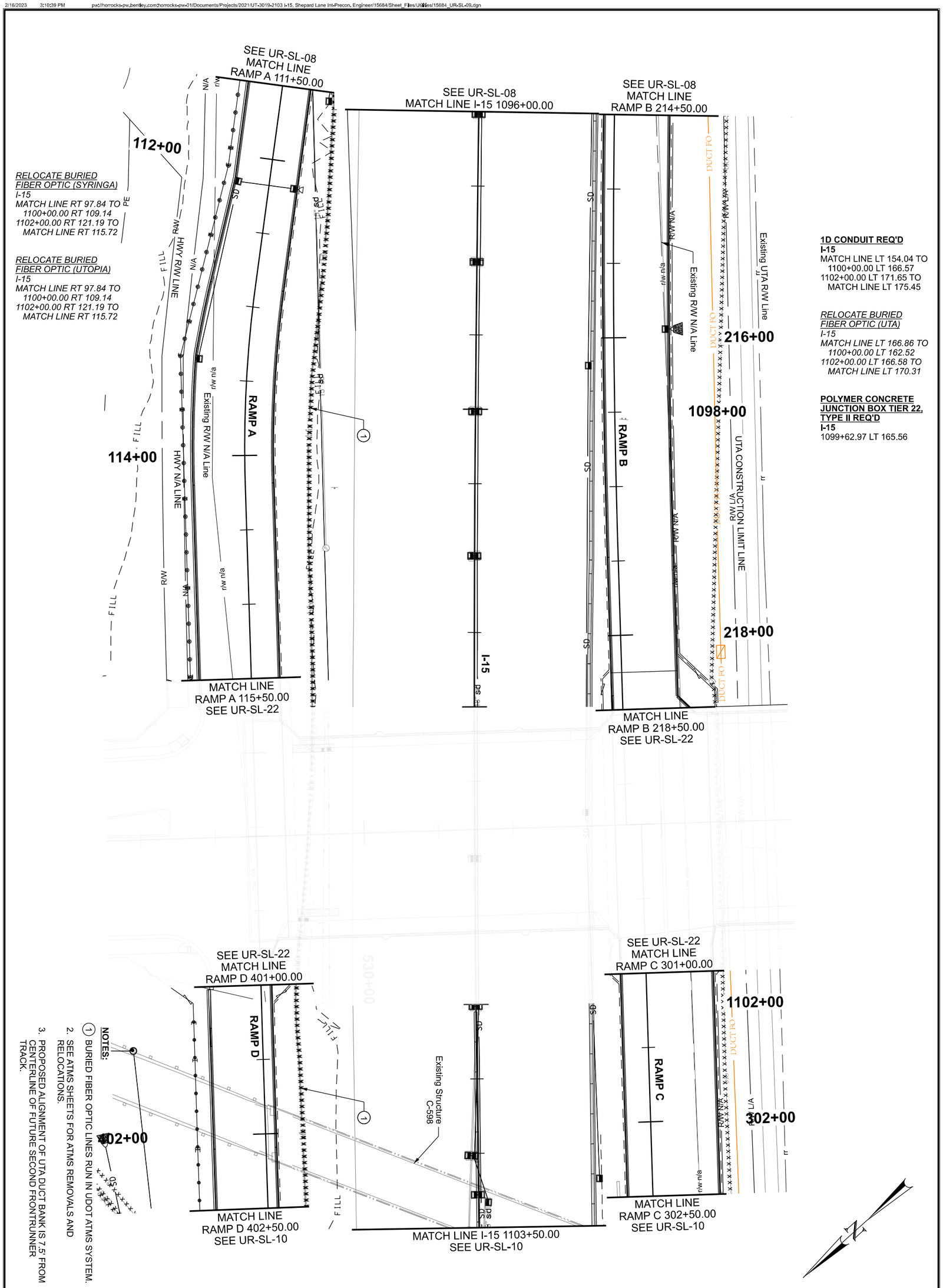
NOTES:

1. BURIED FIBER OPTIC LINES RUN IN UDOT ATMS SYSTEM.
2. SEE ATMS SHEETS FOR ATMS REMOVALS AND RELOCATIONS.
3. PROPOSED ALIGNMENT OF UTA DUCT BANK IS 7.5' FROM CENTERLINE OF FUTURE SECOND FRONTRUNNER TRACK.
4. VERIFY LOCATION OF WATER LINE AND CASING PRIOR TO ORDERING MATERIALS OR BEGINNING RELOCATION.
5. VERIFY LOCATION AND CONDITION OF EXISTING SEWER MANHOLE PRIOR TO ORDERING MATERIALS OR BEGINNING RELOCATION.

SHEET NO. UR-SL-08 204	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	**UTAH DEPARTMENT OF TRANSPORTATION** HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	UTILITY RELOCATION		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY TAS	

EXHIBIT A

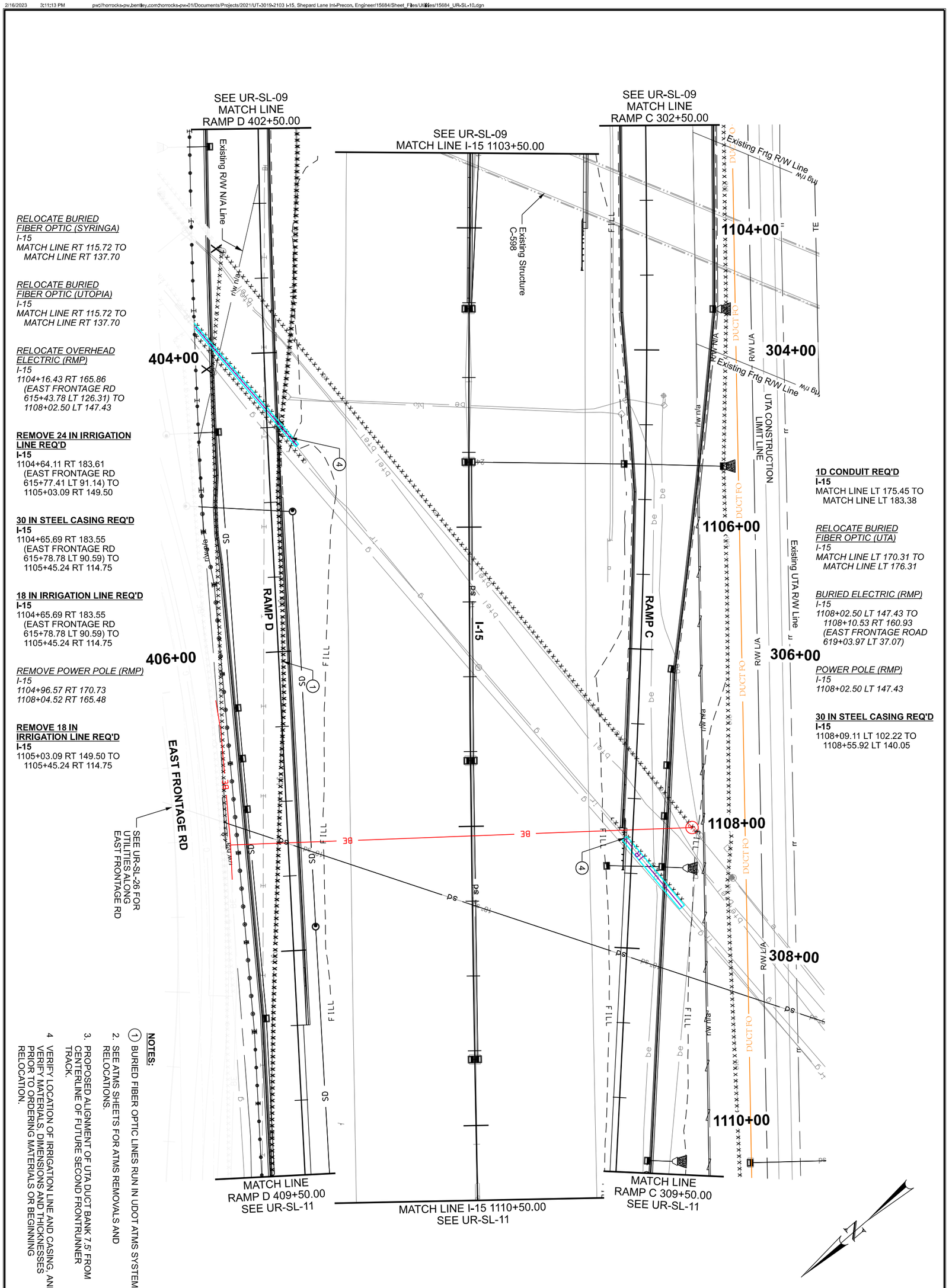
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SHEET NO. UR-SL-09	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER	DRAWN BY KKH QC CHECKED BY TAS	NO. DATE APPROVED BY REMARKS
	UTILITY RELOCATION		MM/DD/YY DATE		

EXHIBIT A

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RELOCATE BURIED FIBER OPTIC (SYRINGA)
I-15
MATCH LINE RT 115.72 TO MATCH LINE RT 137.70

RELOCATE BURIED FIBER OPTIC (UTOPIA)
I-15
MATCH LINE RT 115.72 TO MATCH LINE RT 137.70

RELOCATE OVERHEAD ELECTRIC (RMP)
I-15
1104+16.43 RT 165.86 (EAST FRONTAGE RD 615+43.78 LT 126.31) TO 1108+02.50 LT 147.43

REMOVE 24 IN IRRIGATION LINE REQ'D
I-15
1104+64.11 RT 183.61 (EAST FRONTAGE RD 615+77.41 LT 91.14) TO 1105+03.09 RT 149.50

30 IN STEEL CASING REQ'D
I-15
1104+65.69 RT 183.55 (EAST FRONTAGE RD 615+78.78 LT 90.59) TO 1105+45.24 RT 114.75

18 IN IRRIGATION LINE REQ'D
I-15
1104+65.69 RT 183.55 (EAST FRONTAGE RD 615+78.78 LT 90.59) TO 1105+45.24 RT 114.75

REMOVE POWER POLE (RMP)
I-15
1104+96.57 RT 170.73
1108+04.52 RT 165.48

REMOVE 18 IN IRRIGATION LINE REQ'D
I-15
1105+03.09 RT 149.50 TO 1105+45.24 RT 114.75

SEE UR-SL-26 FOR UTILITIES ALONG EAST FRONTAGE RD

1D CONDUIT REQ'D
I-15
MATCH LINE LT 175.45 TO MATCH LINE LT 183.38

RELOCATE BURIED FIBER OPTIC (UTA)
I-15
MATCH LINE LT 170.31 TO MATCH LINE LT 176.31

BURIED ELECTRIC (RMP)
I-15
1108+02.50 LT 147.43 TO 1108+10.53 RT 160.93 (EAST FRONTAGE ROAD 619+03.97 LT 37.07)

POWER POLE (RMP)
I-15
1108+02.50 LT 147.43

30 IN STEEL CASING REQ'D
I-15
1108+09.11 LT 102.22 TO 1108+55.92 LT 140.05

NOTES:

1. (1) BURIED FIBER OPTIC LINES RUN IN UDOT ATMS SYSTEM.
2. SEE ATMS SHEETS FOR ATMS REMOVALS AND RELOCATIONS.
3. PROPOSED ALIGNMENT OF UTA DUCT BANK 7.5' FROM CENTERLINE OF FUTURE SECOND FRONTRUNNER TRACK.
4. VERIFY LOCATION OF IRRIGATION LINE AND CASING, AND VERIFY MATERIALS, DIMENSIONS AND THICKNESSES PRIOR TO ORDERING MATERIALS OR BEGINNING RELOCATION.

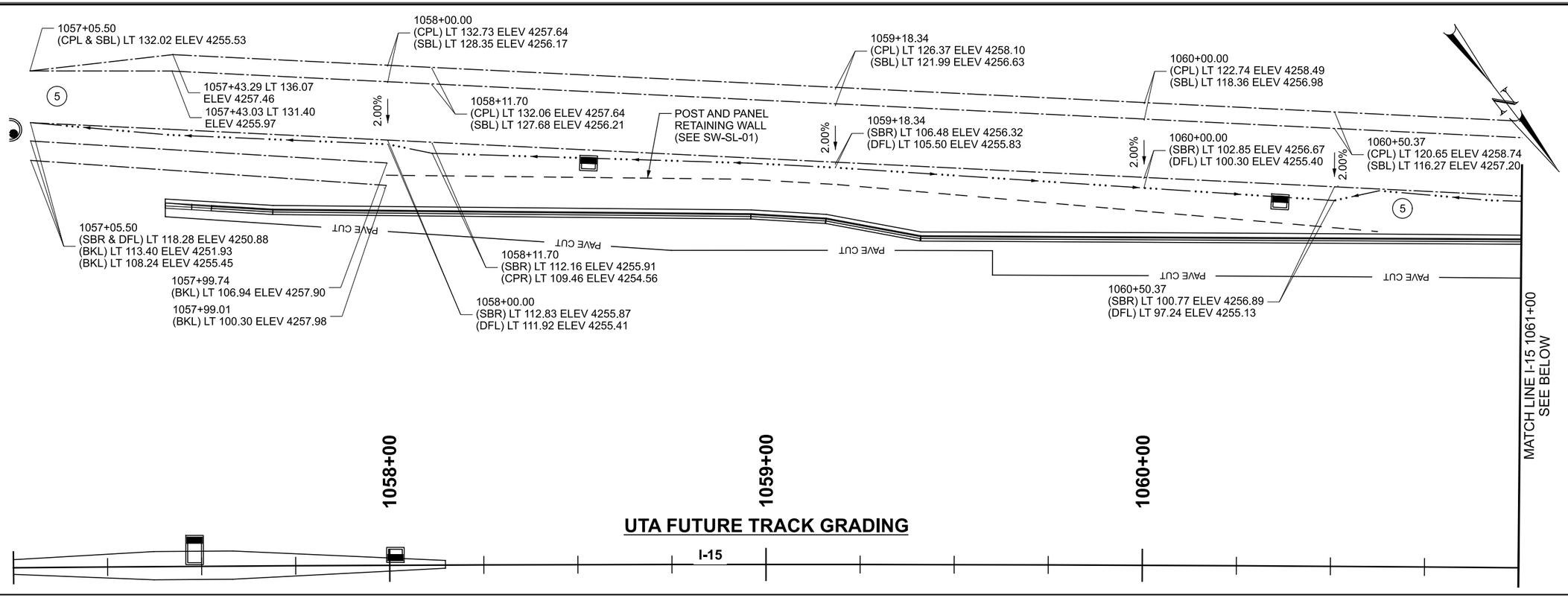
PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	**UTAH DEPARTMENT OF TRANSPORTATION** HORROCKS ENGINEERS		
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	
	UTILITY RELOCATION	PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY TAS	

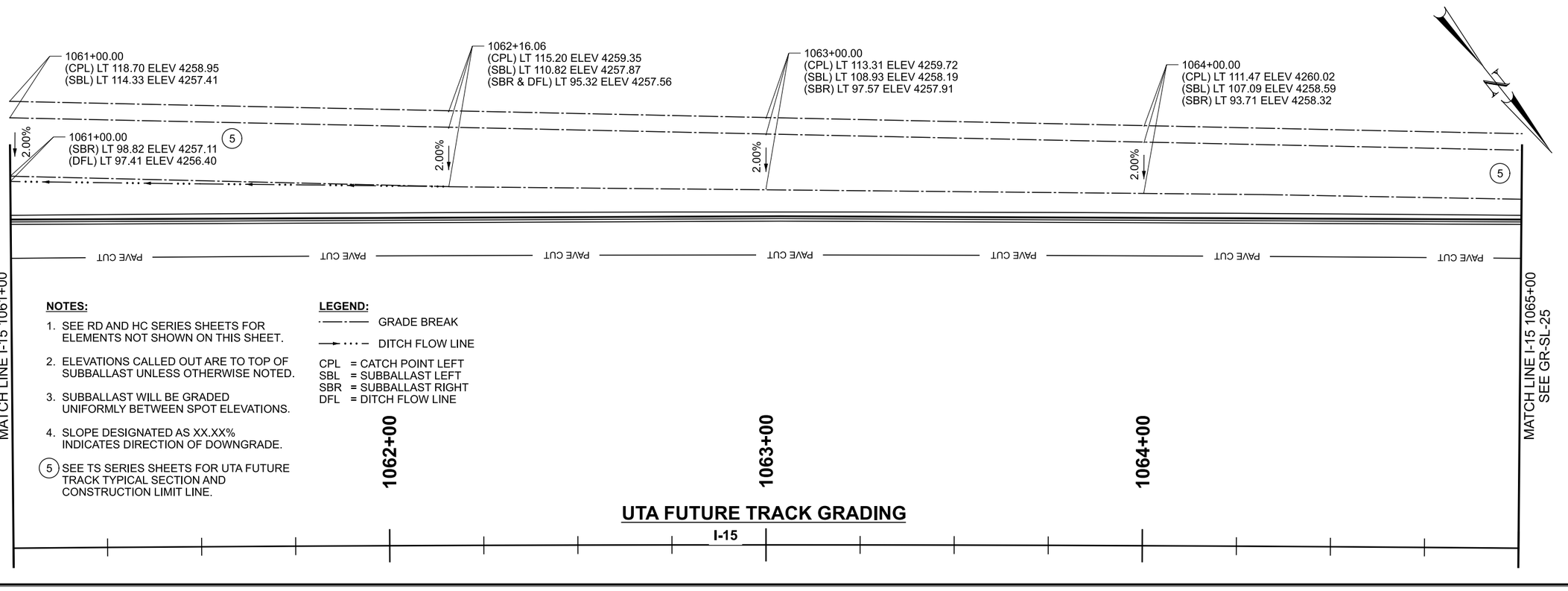
REVISIONS

NO.	DATE	APPROVED BY	REMARKS

SHEET NO. UR-SL-10

EXHIBIT A





NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.
5. SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: 01/11/23

APPROVED
PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG &
PED OVERPASS

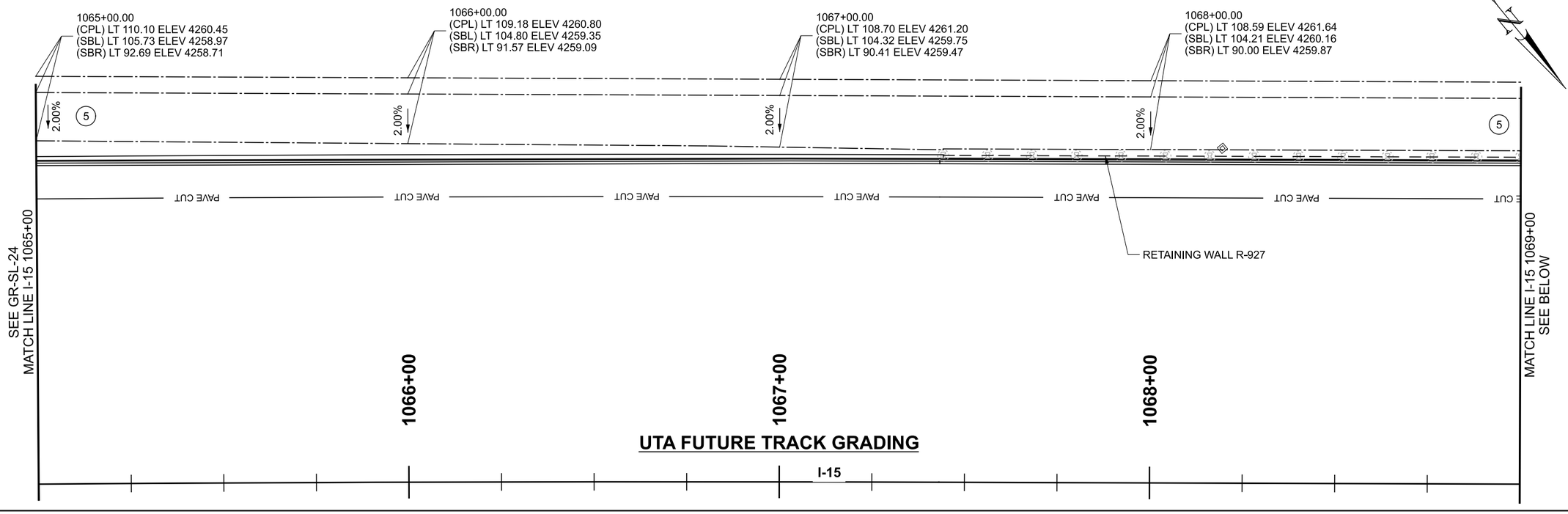
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PROJECT NUMBER: S-I15-7(340)325
PIN: 15684

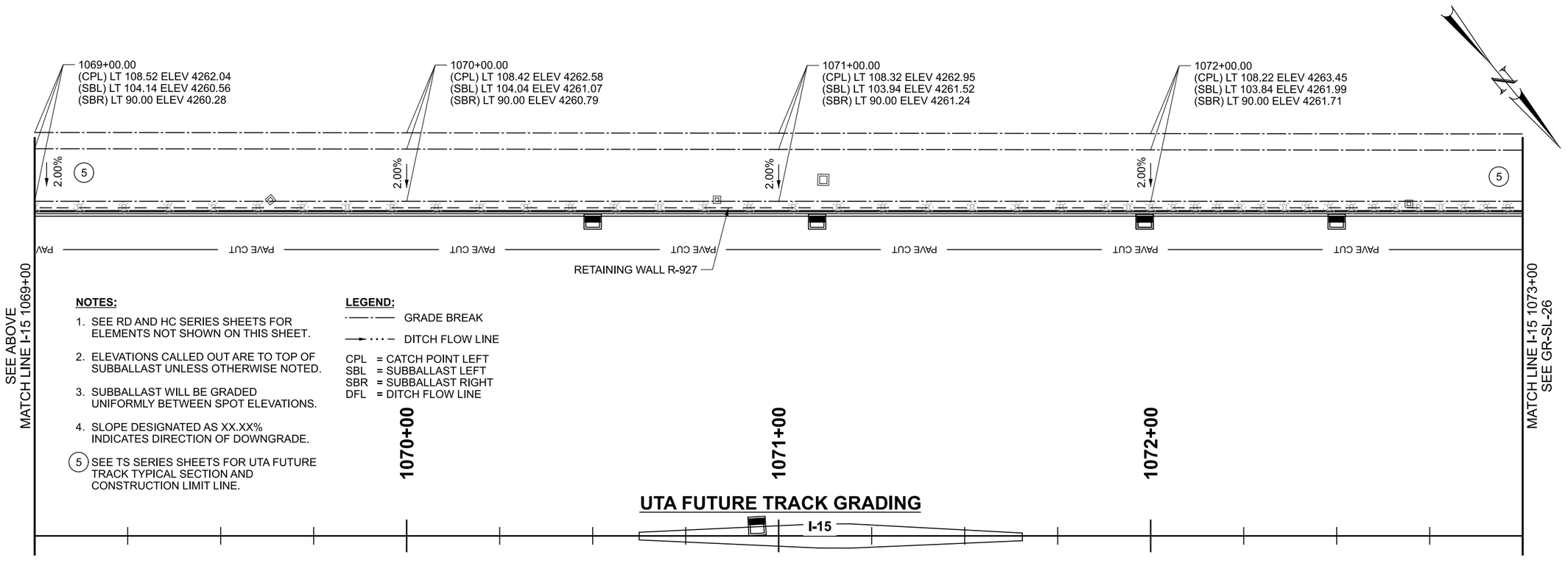
GRADE

SHEET NO. GR-SL-24 207

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EXHIBIT A





NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.
5. SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: 01/11/23

APPROVED

PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG &
PED OVERPASS

PROJECT

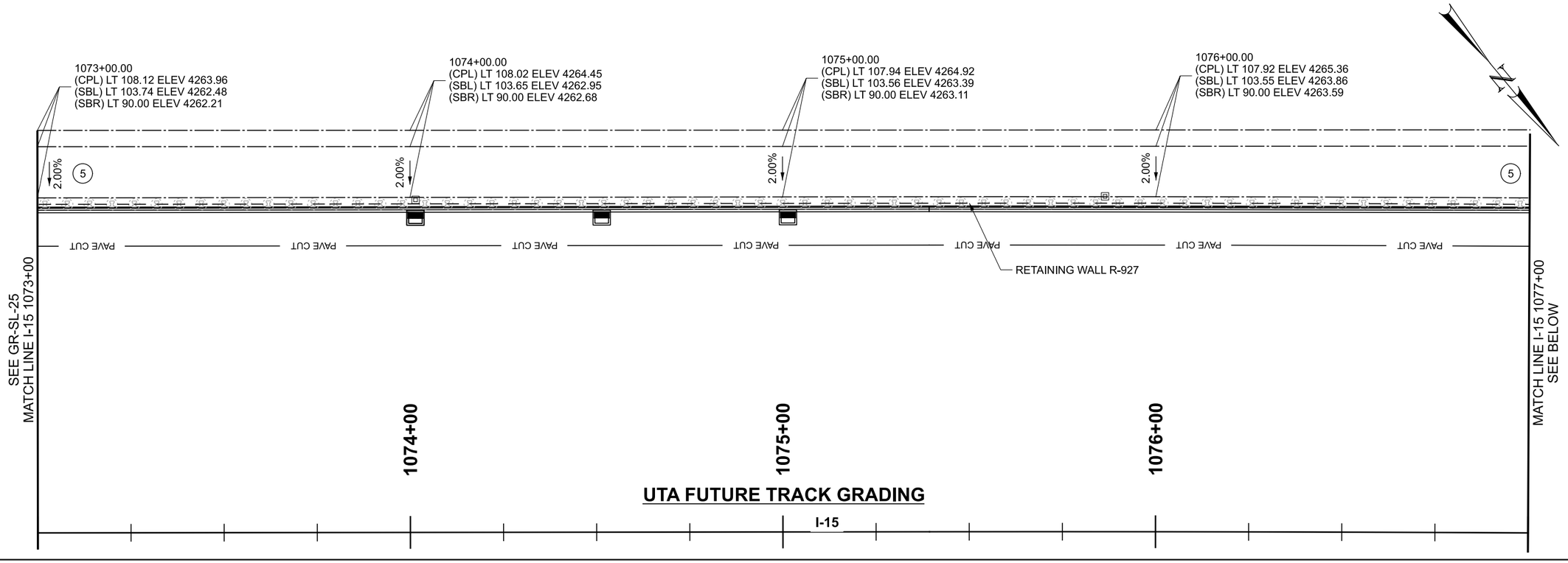
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PIN: 15684

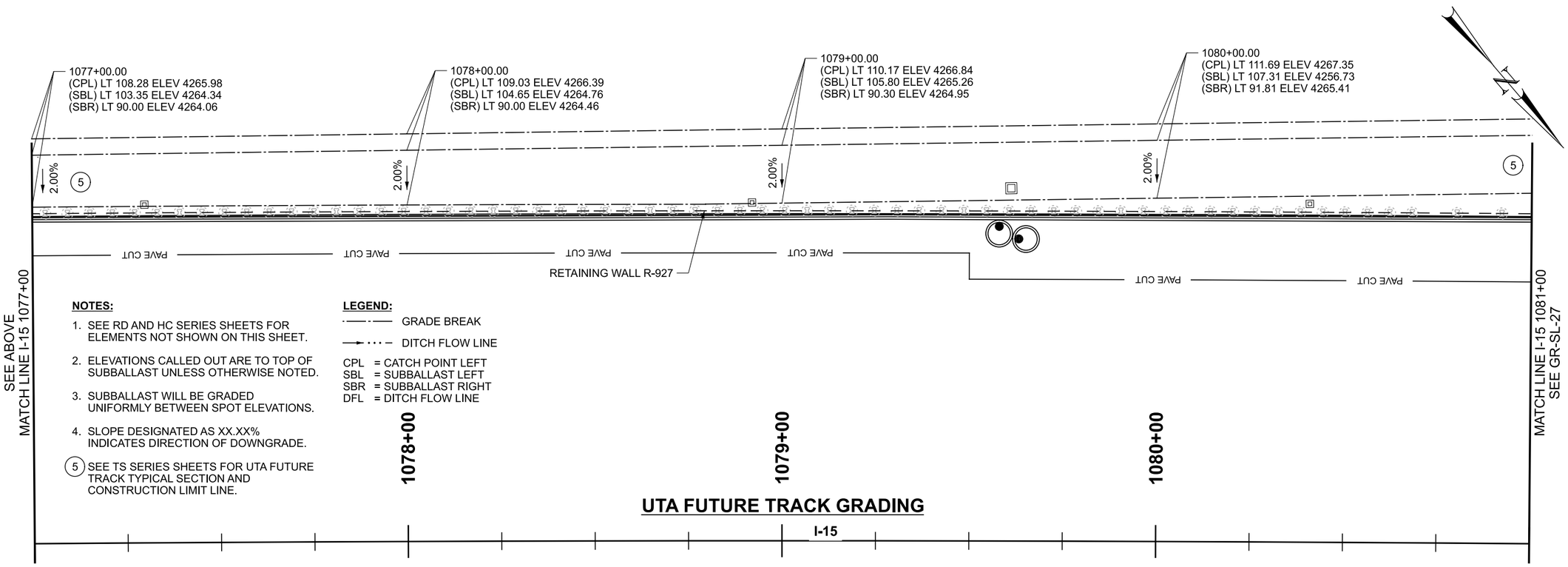
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EXHIBIT A





NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.
5. SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: 01/11/23

APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
GRADE

SHEET NO. GR-SL-26

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EXHIBIT A

1081+00.00
(CPL) LT 113.60 ELEV 4267.84
(SBL) LT 109.22 ELEV 4266.19
(SBR) LT 93.72 ELEV 4265.88

1082+00.00
(CPL) LT 115.90 ELEV 4268.28
(SBL) LT 111.53 ELEV 4266.66
(SBR) LT 96.03 ELEV 4266.35

1083+00.00
(CPL) LT 118.61 ELEV 4268.88
(SBL) LT 114.23 ELEV 4267.21
(SBR) LT 98.73 ELEV 4266.90

1084+00.00
(CPL) LT 121.72 ELEV 4269.48
(SBL) LT 117.34 ELEV 4267.85
(SBR) LT 101.84 ELEV 4267.54

200+00 201+00 202+00 203+00

2.00% 2.00% 2.00% 2.00%

(5)

RETAINING WALL R-927

PAVE CUT PAVE CUT PAVE CUT PAVE CUT PAVE CUT PAVE CUT

RAMP B

SEE GR-SL-26
MATCH LINE I-15 1081+00

MATCH LINE I-15 1085+00
SEE BELOW

1082+00 1083+00 1084+00

UTA FUTURE TRACK GRADING

I-15

1085+00.00
(CPL) LT 125.27 ELEV 4270.03
(SBL) LT 120.90 ELEV 4268.41
(SBR) LT 105.39 ELEV 4268.09

1086+00.00
(CPL) LT 129.22 ELEV 4270.67
(SBL) LT 124.84 ELEV 4269.07
(SBR) LT 109.33 ELEV 4268.76

1087+00.00
(CPL) LT 133.23 ELEV 4271.31
(SBL) LT 128.85 ELEV 4269.69
(SBR) LT 113.34 ELEV 4269.37

1088+00.00
(CPL) LT 137.43 ELEV 4271.70
(SBL) LT 133.05 ELEV 4270.23
(SBR) LT 117.54 ELEV 4269.91

204+00 205+00 206+00 207+00

2.00% 2.00% 2.00% 2.00%

(5)

RETAINING WALL R-927

PAVE CUT PAVE CUT PAVE CUT PAVE CUT

RAMP B

SEE ABOVE
MATCH LINE I-15 1085+00

MATCH LINE I-15 1089+00
SEE GR-SL-28

1086+00 1087+00 1088+00

UTA FUTURE TRACK GRADING

I-15

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE

REVISIONS				
NO.	DATE	APPROVED BY		REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: 01/11/23

APPROVED

PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
GRADE

SHEET NO. GR-SL-27

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EXHIBIT A

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

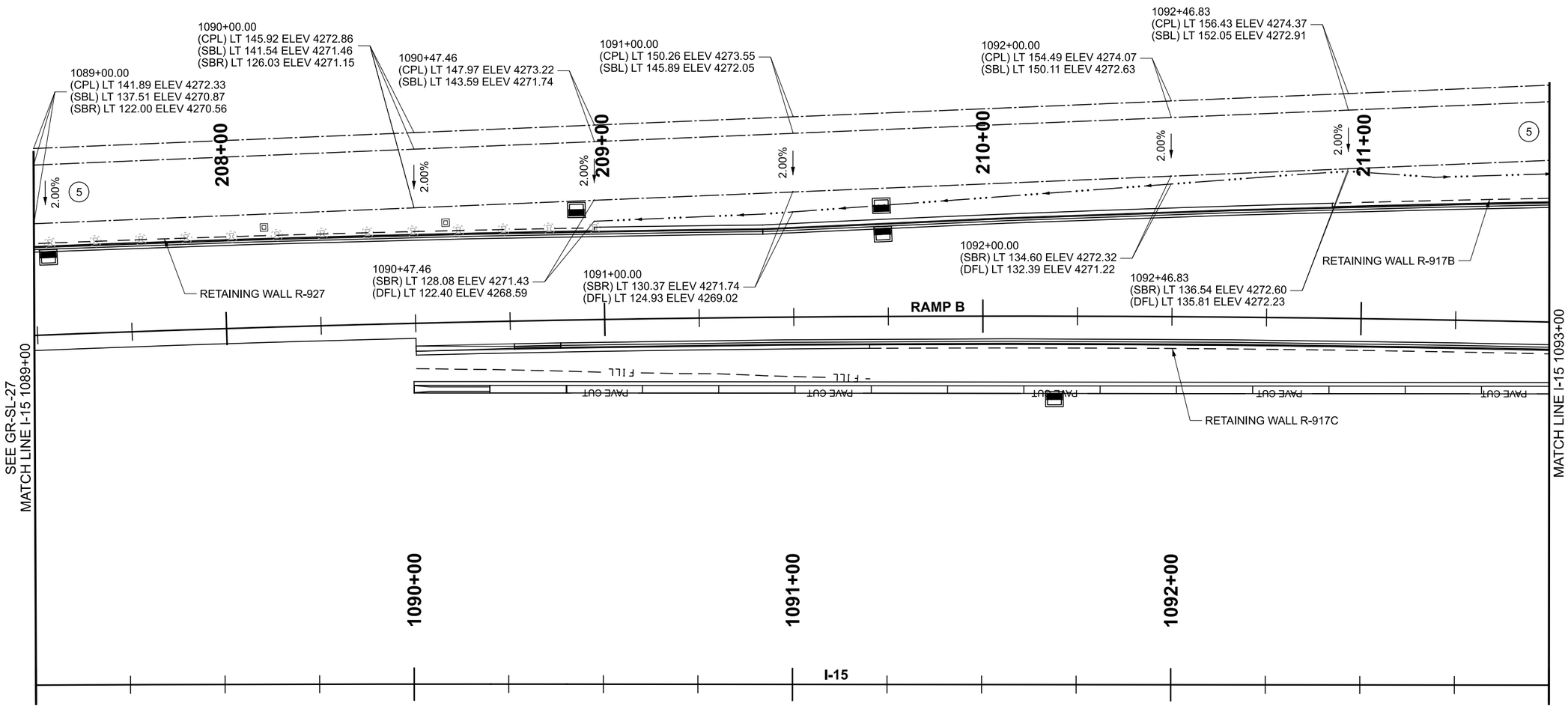
(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE



UTA FUTURE TRACK GRADING

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: MM/DD/YY

APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
GRADE

SHEET NO. GR-SL-28

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EXHIBIT A

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

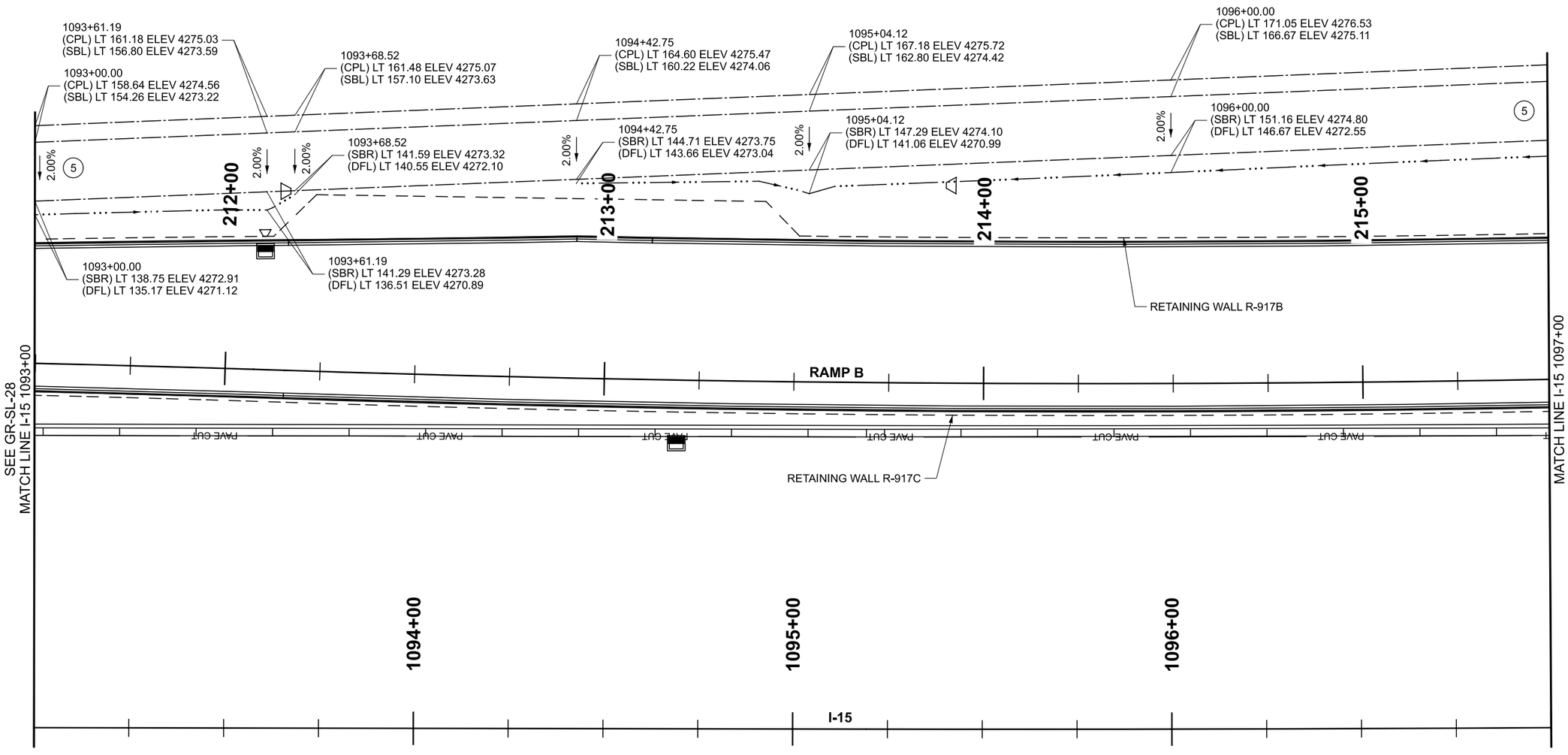
(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE



UTA FUTURE TRACK GRADING

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
DATE: MM/DD/YY

APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
GRADE

SHEET NO. GR-SL-29

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EXHIBIT A

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

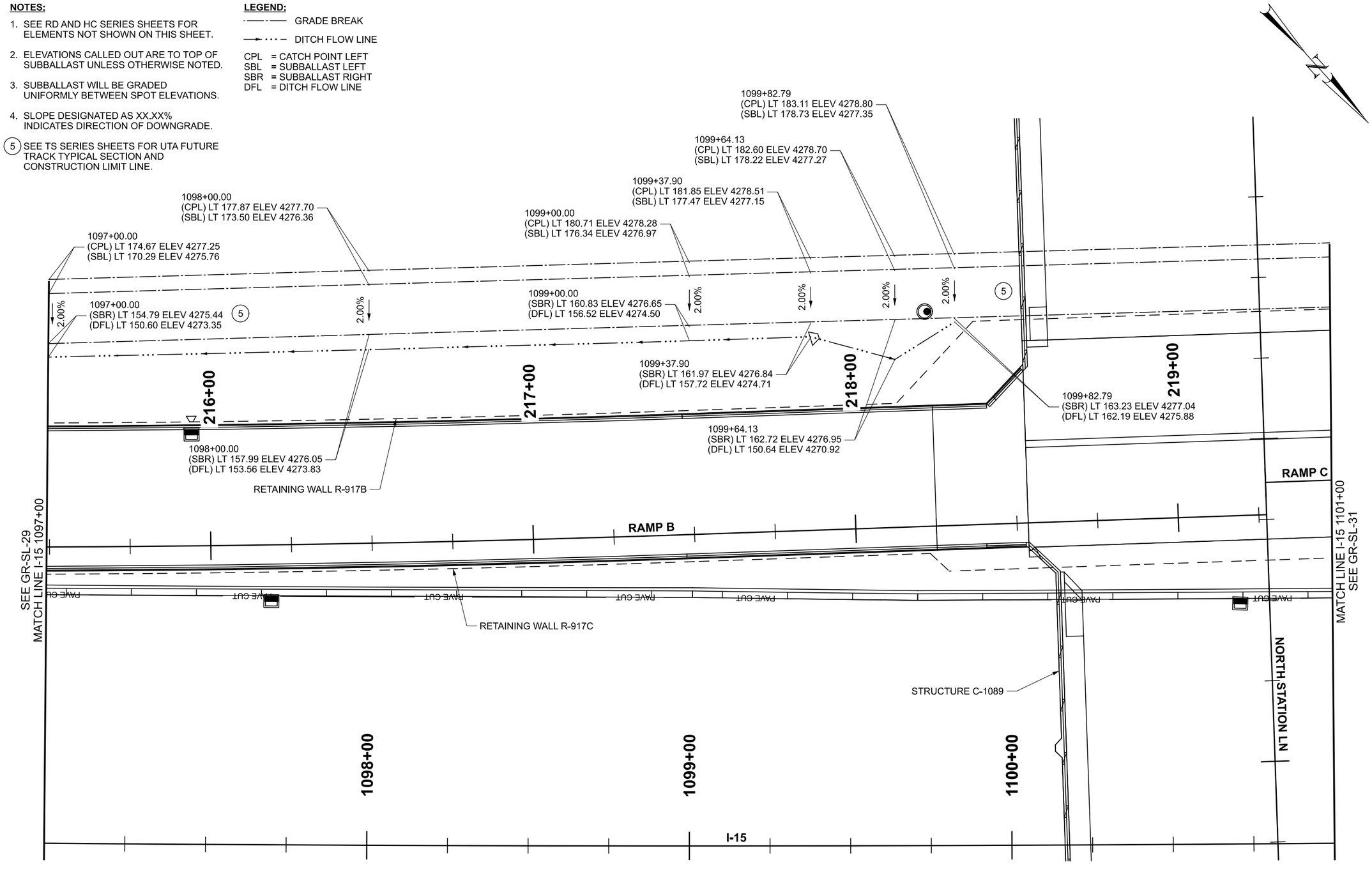
(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE



UTA FUTURE TRACK GRADING

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY
APPROVED: MM/DD/YY
DATE
PROFESSIONAL ENGINEER

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	PIN	15684
PROJECT NUMBER	S-I15-7(340)325		
	GRADE		

SHEET NO. GR-SL-30

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EXHIBIT A

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

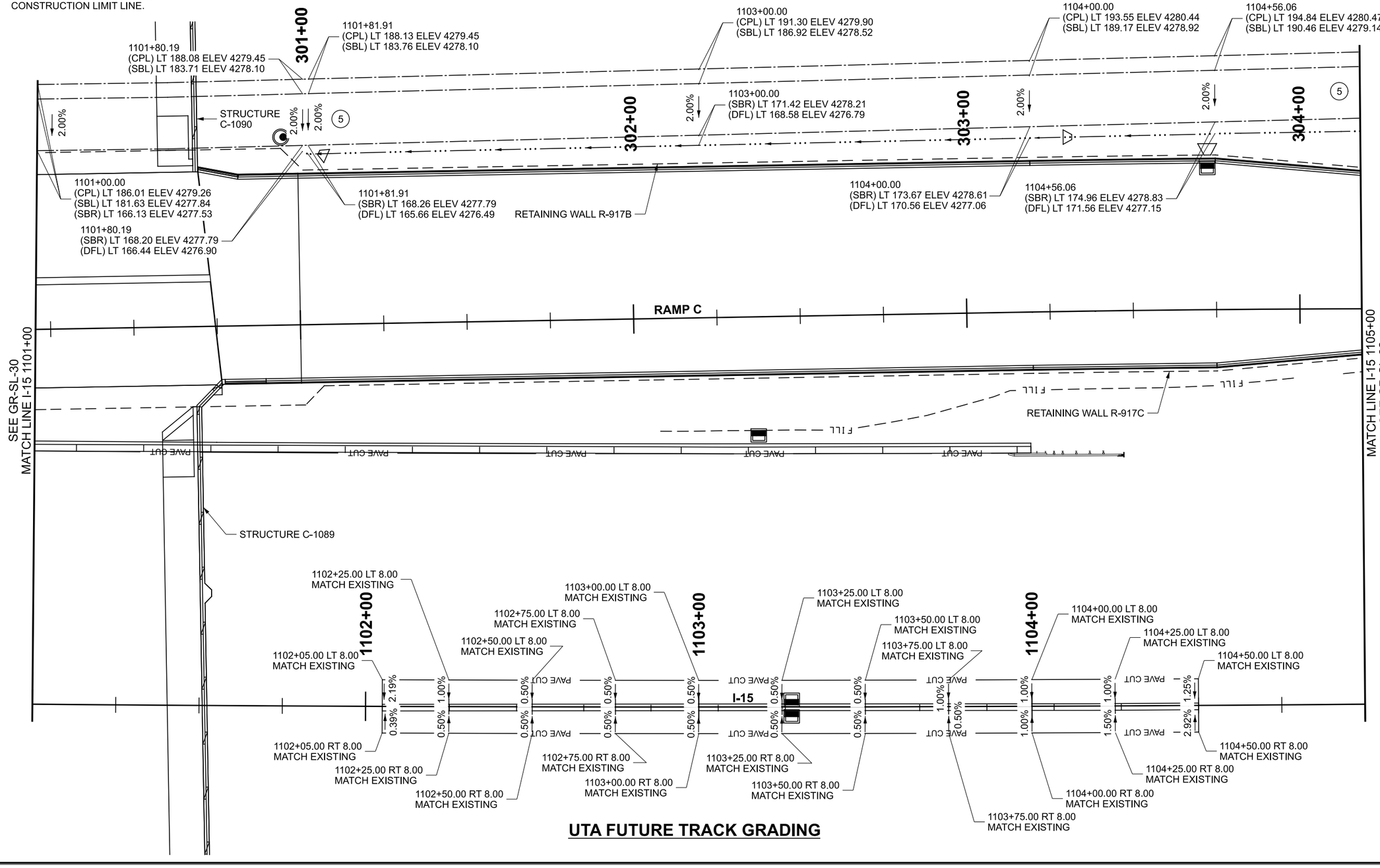
(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE



UTA FUTURE TRACK GRADING

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION

HORROCKS ENGINEERS

APPROVED

PROFESSIONAL ENGINEER

DRAWN BY	KKH		
QC CHECKED BY	KLY		
DATE	MM/DD/YY		

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	PIN	15684
PROJECT NUMBER	S-I15-7(340)325		
	GRADE		

SHEET NO. GR-SL-31

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EXHIBIT A

NOTES:

1. SEE RD AND HC SERIES SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
2. ELEVATIONS CALLED OUT ARE TO TOP OF SUBBALLAST UNLESS OTHERWISE NOTED.
3. SUBBALLAST WILL BE GRADED UNIFORMLY BETWEEN SPOT ELEVATIONS.
4. SLOPE DESIGNATED AS XX.XX% INDICATES DIRECTION OF DOWNGRADE.

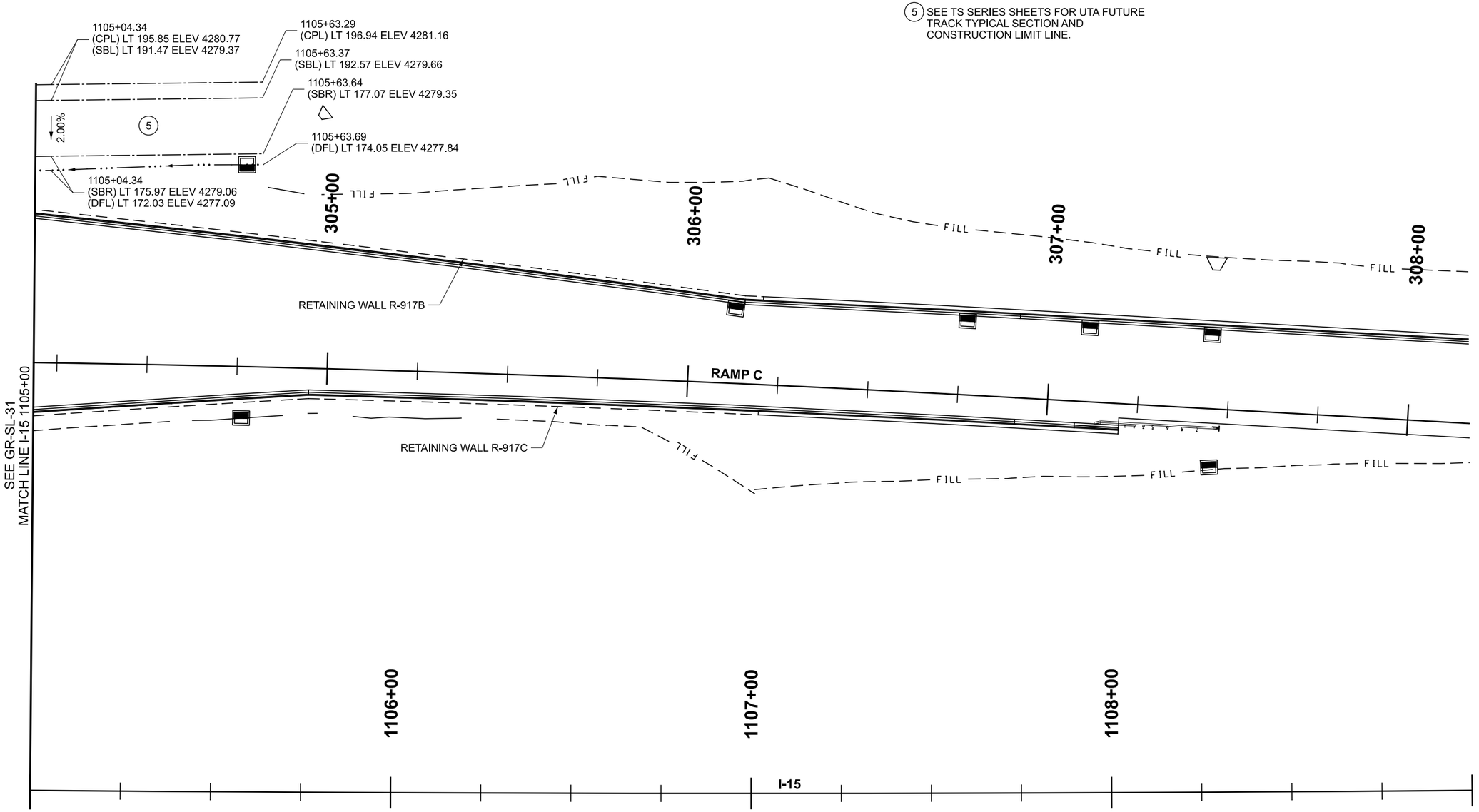
(5) SEE TS SERIES SHEETS FOR UTA FUTURE TRACK TYPICAL SECTION AND CONSTRUCTION LIMIT LINE.

LEGEND:

GRADE BREAK

DITCH FLOW LINE

CPL = CATCH POINT LEFT
SBL = SUBBALLAST LEFT
SBR = SUBBALLAST RIGHT
DFL = DITCH FLOW LINE



UTA FUTURE TRACK GRADING

REVISIONS				
NO.	DATE	APPROVED BY	REMARKS	

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: KLY

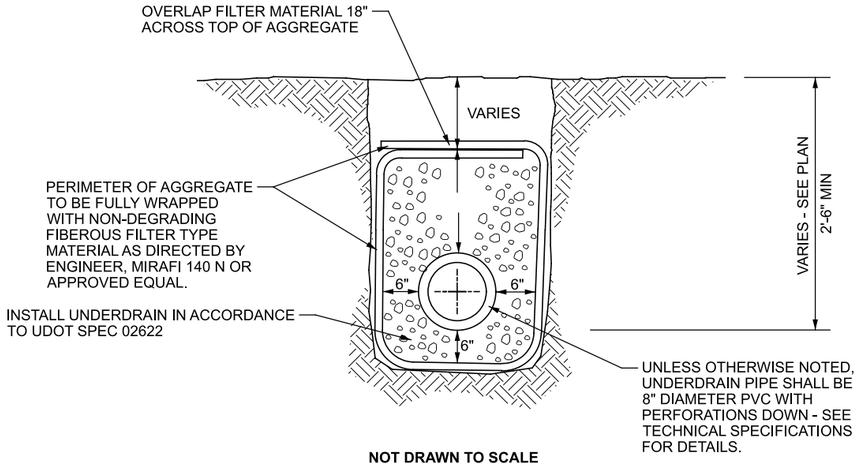
APPROVED
PROFESSIONAL ENGINEER
MM/DD/YY
DATE

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER	S-I15-7(340)325
PIN	15684
	GRADE

SHEET NO. GR-SL-32

3/8/2023 11:50:47 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Grading/15684_GR-SL-32.dgn

EXHIBIT A

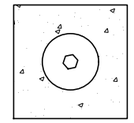


NOT DRAWN TO SCALE

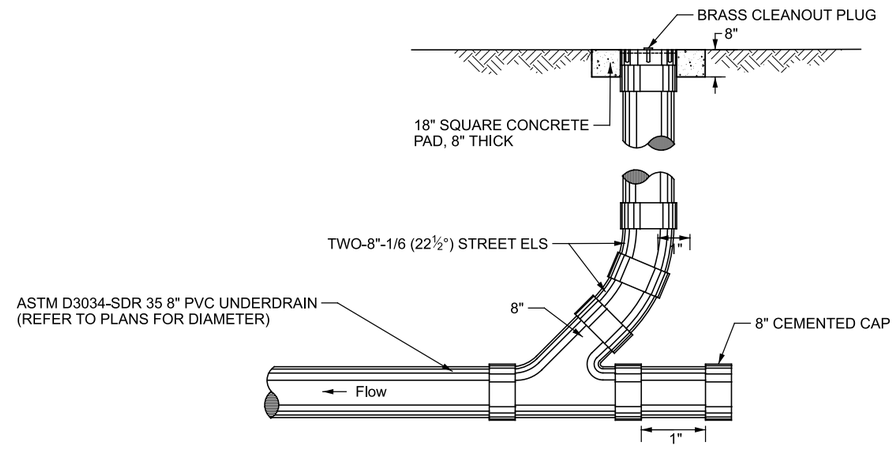
NOTE:

1. SOLID PIPE (W/O PERFORATIONS) IS TO BE USED UNDER DRIVES AND ROADWAYS, WITH COMPACTED BACKFILL.

UNDERDRAIN SECTION



PLAN VIEW
NOT DRAWN TO SCALE



SECTION VIEW
NOT DRAWN TO SCALE

NOTES:

1. CLEANOUT FACES DOWNSTREAM.
2. ALL CLEANOUTS ARE 6" ONLY

UNDERDRAIN CLEANOUT

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

DRAWN BY: PJG
QC CHECKED BY: CMR
DATE: 01/11/23
APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684

DRAINAGE DETAIL

SHEET NO. DRDT-1

2/16/2023 8:10:28 AM pw:2horrocks-pw.bentley.com:horrocks-pw-01\Documents\Projects\2021\UT-20I15-21031\I-15; Shepard Lane Int-Precon, Engineer\15684\Sheet_Files\Hydraulics\15684_DRDT-11_UNDERDRAIN AND CLEANOUT.dgn

EXHIBIT A

NOTES:

1. DECK DRAINS ON THE PEDESTRIAN BRIDGE ARE CONNECTED BY A PIPE. THE PIPE OUTFALLS TO A VERTICAL PIPE ATTACHED TO THE SIDE OF THE BENT. OUTFLOW DRAINS TO CB 5-4. SEE STRUCTURE 011034C FOR DETAILS.
2. SEE DRDT-15 FOR DETAILS ON THE APRON FOR CB5-1.
3. REMOVE EXISTING APRON, GUTTER AND INLET FOR INSTALLATION OF BRIDGE BENT. REPLACE THE SECTION REMOVED WITH A NEW GUTTER. MATCH THE FLOWLINE AND CROSS-SECTION OF THE EXISTING GUTTER.
4. CONNECT VERTICAL PIPE INSTALLED ALONG BRIDGE BENT TO CB 5-1.
5. FOR A LIST OF PAY ITEMS FOR THIS DETAIL, SEE DR-PL-03 AND DR-PL-05.

DRAINAGE DESIGN BEHIND THE UTA PLATFORM AND UNDER THE NEW PEDESTRIAN BRIDGE

SEE PARK LANE PLANS FOR THIS AREA

500+00

502+00

100+00

EXISTING PIPE

UTA PLATFORM

UTA TRACK

TRAIL E

TRAIL A

STRUCTURE 011034C

DECK DRAIN

Existing concrete swale behind the station platform

Existing retaining wall

End existing retaining wall

easement

property line

fence

r/r row

UPRR TRACK

TRACK

RMV EX P2-22

RMV EX CB5-35

RMV EXP2-20

RMV EXES2-20

RMV EXES2-21

RMV EXP2-21

RMV EXMH2-2

RMV EXP5-35

WALL R-922A

WALL R-922B

CB2-3

P2-5

P5-2

P5-1

MH2-4

CB5-1

EX CB5-2

FILL

PE

ps

sd

LEGEND

DRAINAGE KEY:

CB - CATCH BASIN
ES - END SECTION
EX CB - EXISTING CATCH BASIN
EX P - EXISTING PIPE
MH - MANHOLE
P - PIPE
RS CB - RECONSTRUCT CATCH BASIN

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

DRAWN BY CMR
QC CHECKED BY BOW
DATE 01/11/23
APPROVED
PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG & PED OVERPASS

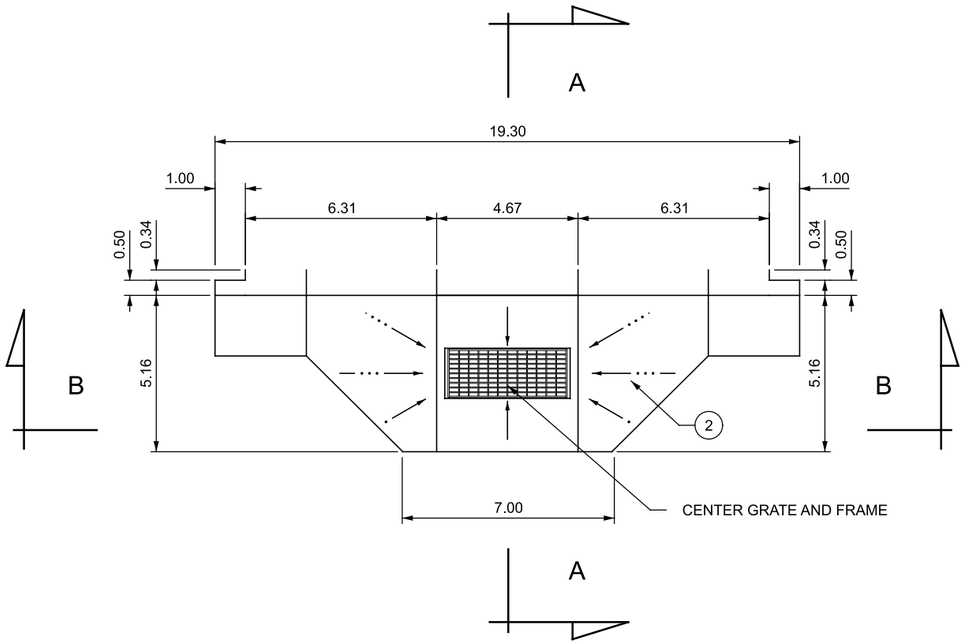
PROJECT
PROJECT NUMBER S-I15-7(340)325
PIN 15684

DRAINAGE DETAILS

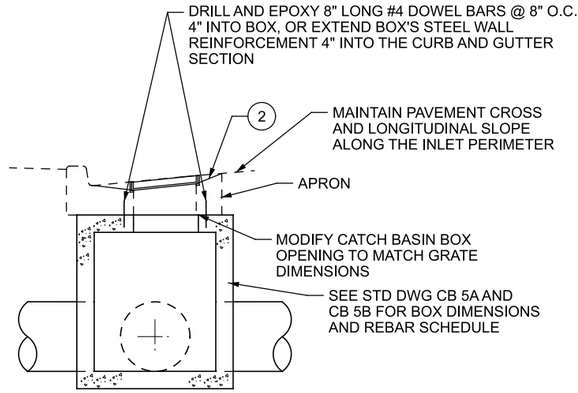
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2/16/2023 8:11:10 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-30192-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Hydraulics/15684_DRDT-14_DR at UTA Station.dgn

EXHIBIT A

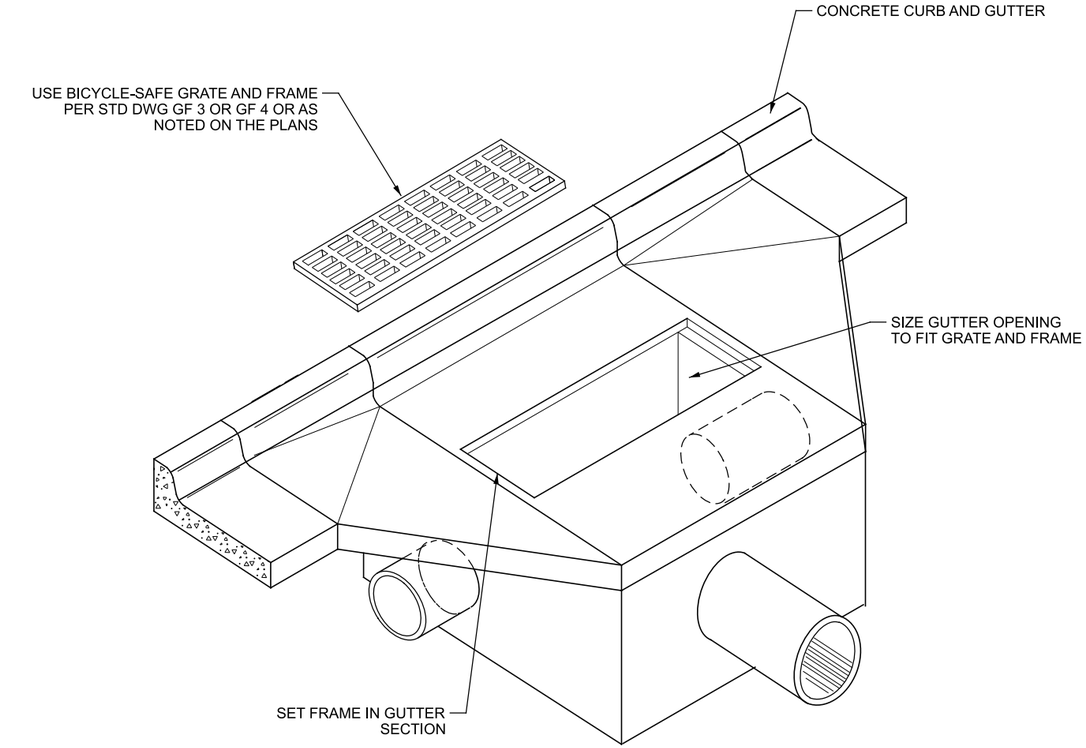


PLAN



SECTION A-A

SECTION B-B



ISOMETRIC VIEW

APRON FOR INLET BEHIND UTA TRAIN STATION

NOTES:

1. SEE DRDT-14 FOR LOCATION OF INLET.
2. MATCH THE SLOPES AND DIMENSIONS OF THE EXISTING APRONS BEHIND THE STATION PLATFORM.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

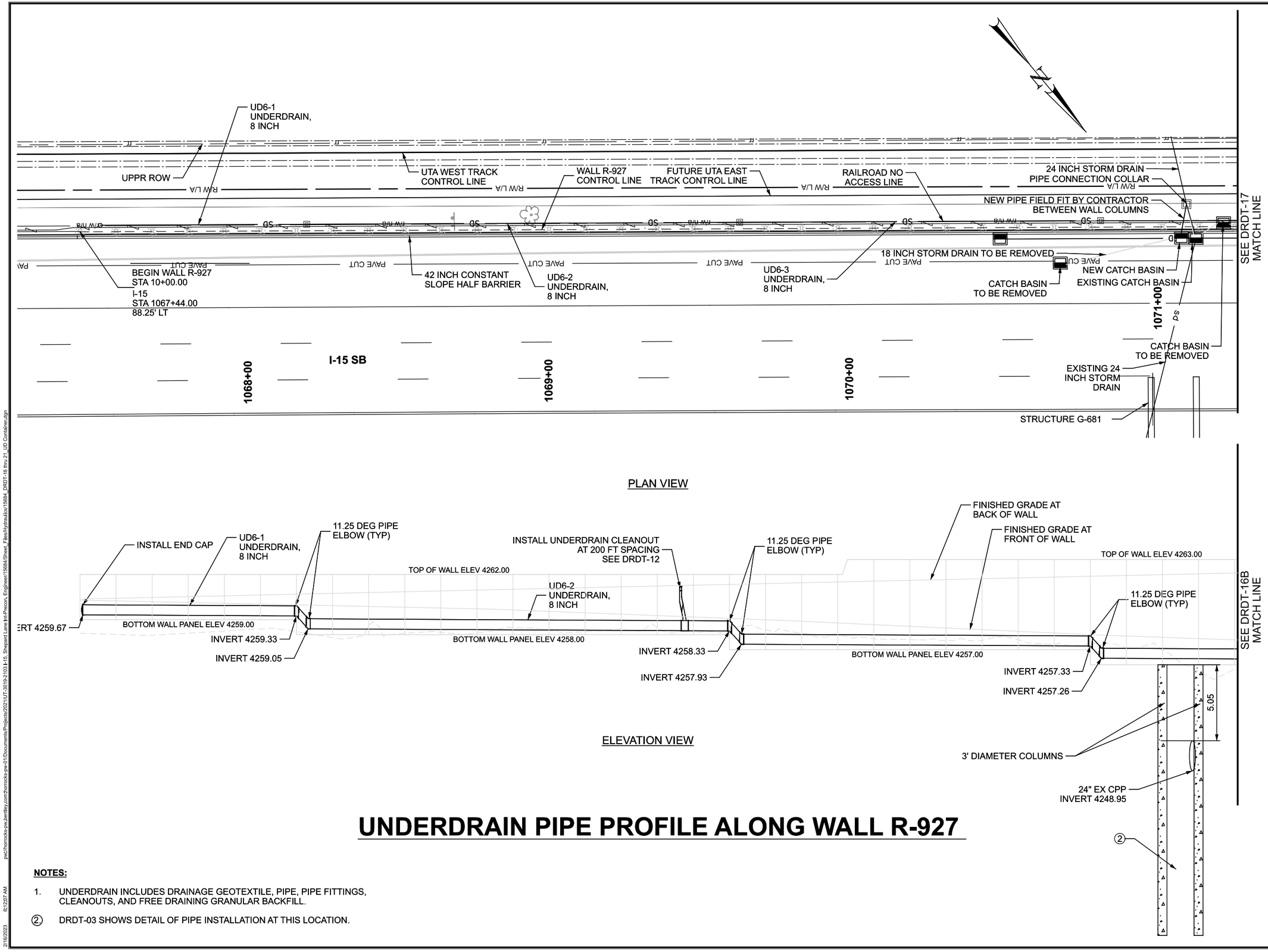
DRAWN BY PJG
QC CHECKED BY CMR
01/11/23 DATE
APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
DRAINAGE DETAIL

SHEET NO. DRDT-1 218

2/16/2023 8:11:27 AM pw://hormoks-pw.bentley.com:hormoks-pw-01/Documents/Projects/2021/UT-30019-2103 I-15; Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Hydraulics/15684_DRDT-15_Apron at UTA Station

EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

② DRDT-03 SHOWS DETAIL OF PIPE INSTALLATION AT THIS LOCATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER

DRAWN BY	CHECKED BY	QC
AJB	CMR	

DATE 01/11/23

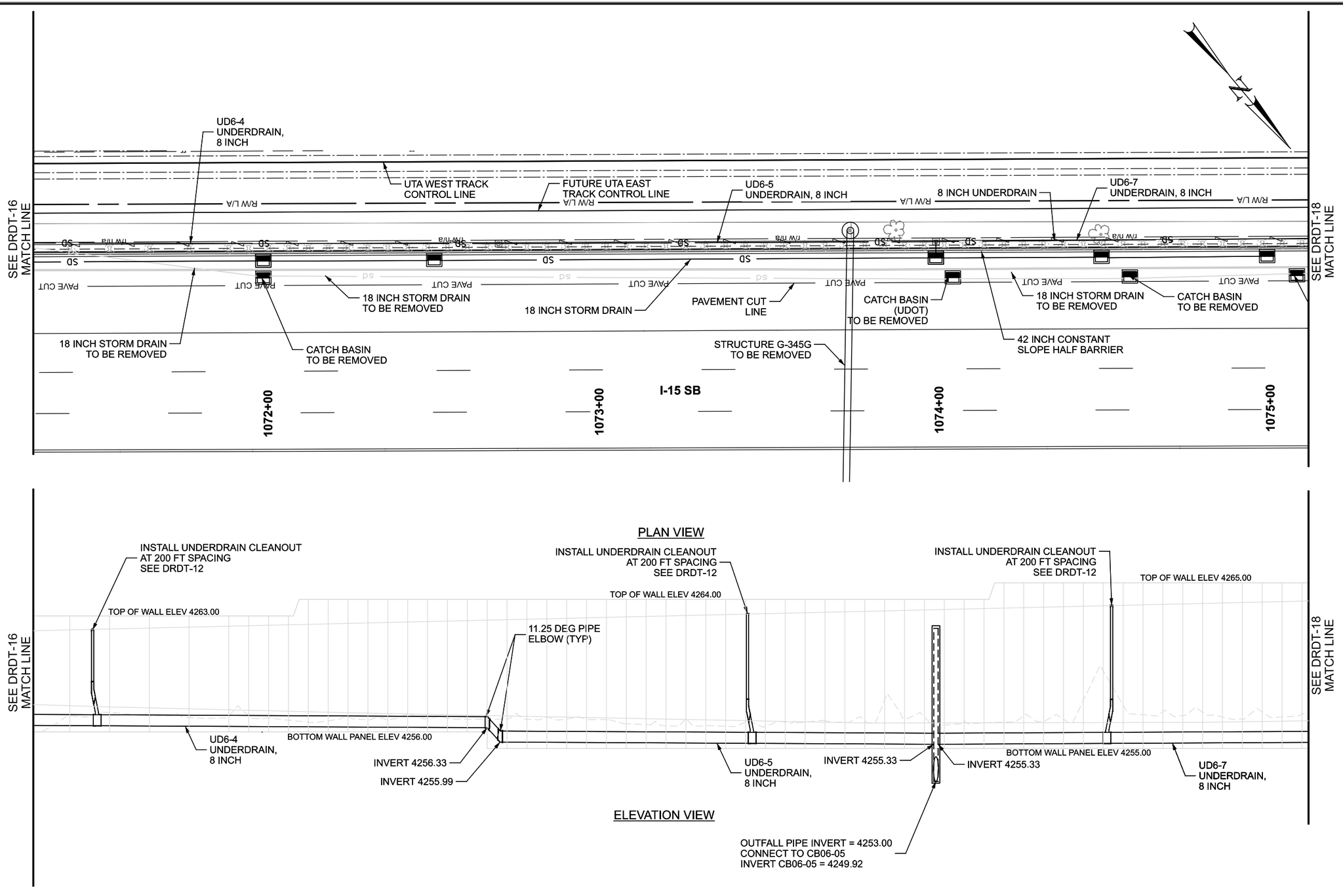
PROJECT	PROJECT NUMBER	PIN
I-15; SHEPARD LN INTCHG & PED OVERPASS	S-I15-7(340)325	15684

DRAINAGE DETAIL

SHEET NO. DRDT-16

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EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER

DRAWN BY AJB
QC CHECKED BY CMR
DATE 01/11/23

PROJECT: I-15; SHEPARD LN INTCHG &
PED OVERPASS

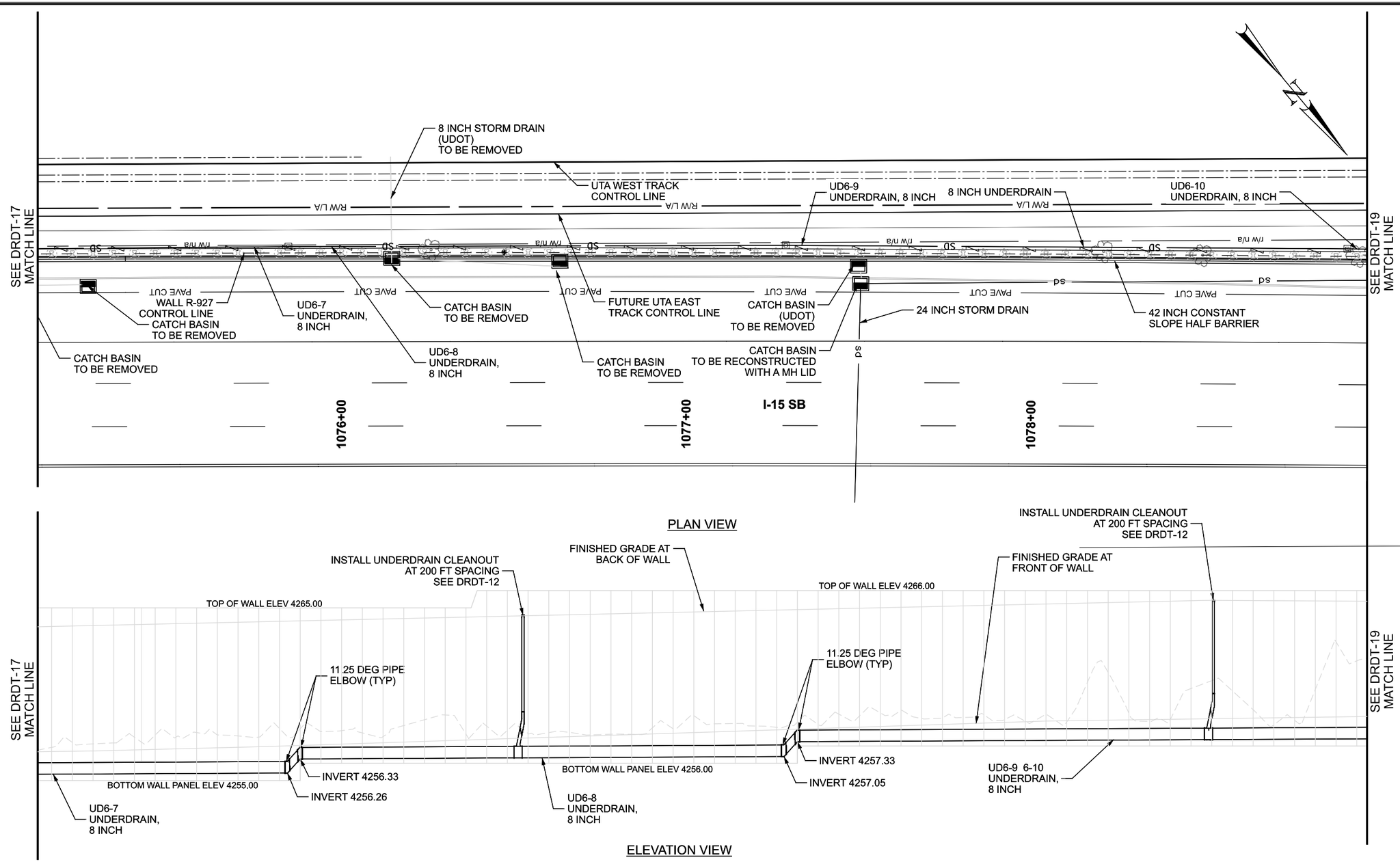
PROJECT NUMBER: S-I15-7(340)325
PIN 15684

DRAINAGE DETAIL

SHEET NO. DRDT-17 220

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2/16/2023 8:12:09 AM

EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

DRAWN BY AJB
QC CHECKED BY CMR
DATE 01/11/23

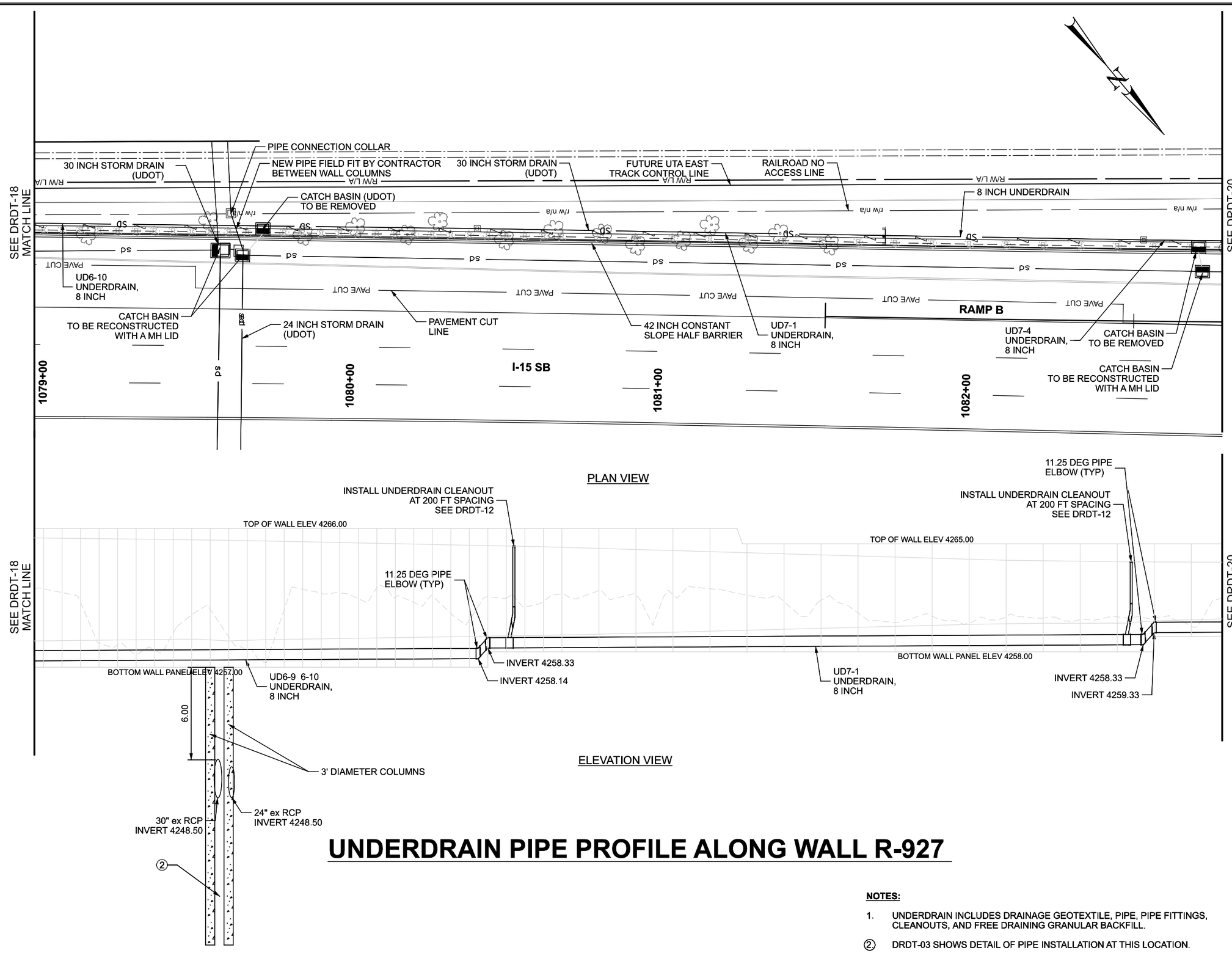
APPROVED
PROFESSIONAL ENGINEER

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
DRAINAGE DETAIL

SHEET NO. DRDT-18

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EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

② DRDT-03 SHOWS DETAIL OF PIPE INSTALLATION AT THIS LOCATION.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

DRAWN BY AJB
QC CHECKED BY CMR
DATE 01/11/23
APPROVED
PROFESSIONAL ENGINEER

I-15; SHEPARD LN INTCHG &
PED OVERPASS

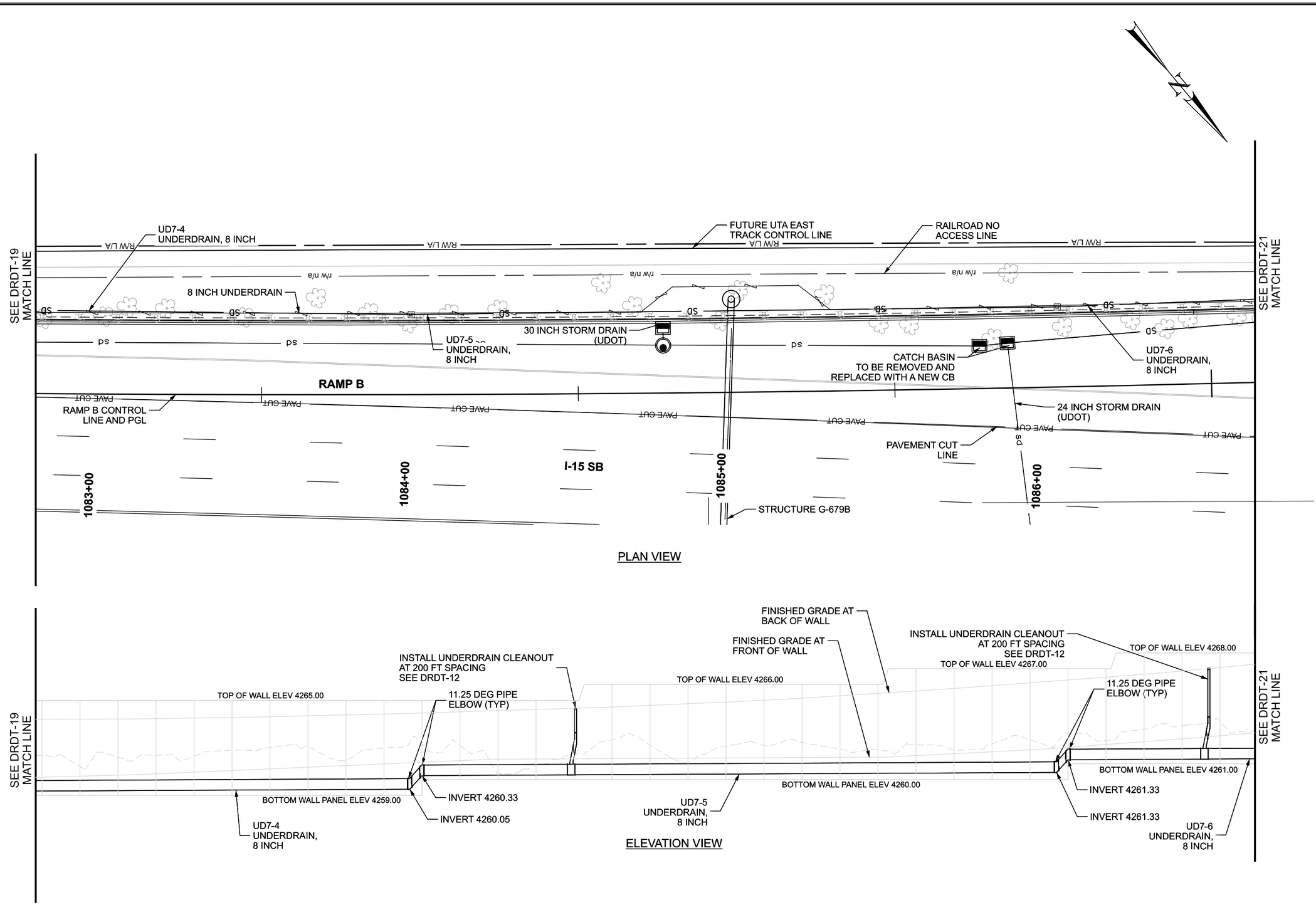
PROJECT
PROJECT NUMBER S-I15-7(340)325
PIN 15684

DRAINAGE DETAIL

SHEET NO. DRDT-19

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EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER

DRAWN BY	AJB
QC CHECKED BY	CMR
DATE	01/11/23

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT

PROJECT NUMBER: S-I15-7(340)325

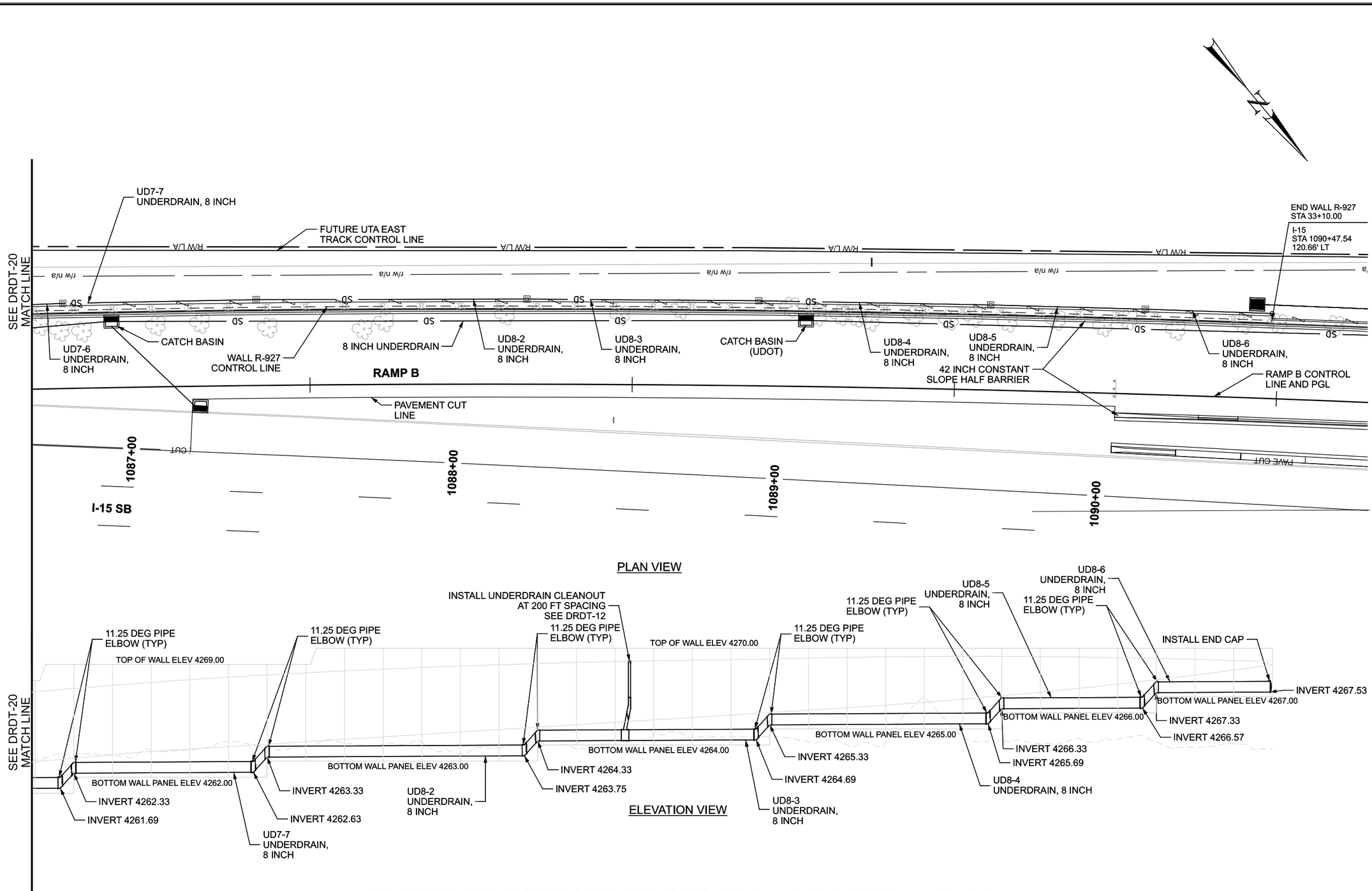
PIN: 15684

DRAINAGE DETAIL

SHEET NO. DRDT-20

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EXHIBIT A



UNDERDRAIN PIPE PROFILE ALONG WALL R-927

NOTES:

1. UNDERDRAIN INCLUDES DRAINAGE GEOTEXTILE, PIPE, PIPE FITTINGS, CLEANOUTS, AND FREE DRAINING GRANULAR BACKFILL.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER

DRAWN BY AJB
QC CHECKED BY CMR
DATE 01/11/23

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN 15684
DRAINAGE DETAIL

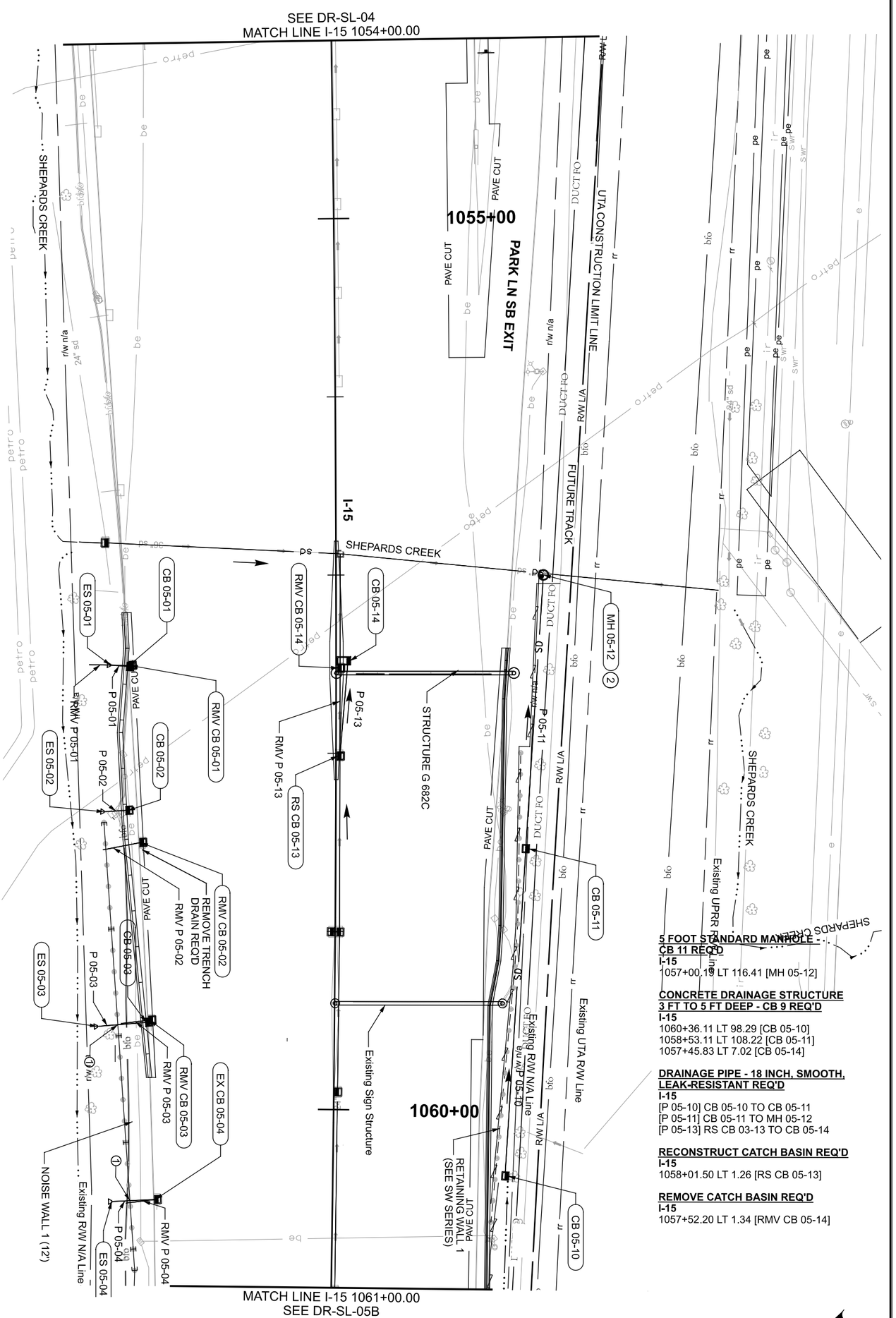
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EXHIBIT A

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE



CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1057+51.28 RT 116.91 [CB 05-01]
1058+32.48 RT 117.29 [CB 05-02]
1059+51.99 RT 105.57 [CB 05-03]

CIRCULAR END SECTION 12 INCH REQ'D
I-15
1057+50.55 RT 126.57 [ES 05-01]
1058+33.31 RT 130.05 [ES 05-02]
1059+54.50 RT 133.02 [ES 05-03]
1060+53.25 RT 123.89 [ES 05-04]

DRAINAGE PIPE - 12 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 05-01] CB 05-01 TO ES 05-01
[P 05-02] CB 05-02 TO ES 05-02
[P 05-03] CB 05-03 TO ES 05-03
[P 05-04] 1060+51.78 RT 99.48
[EX CB 05-04] TO ES 05-04

REMOVE CATCH BASIN REQ'D
I-15
1057+50.79 RT 115.49 [RMV CB 05-01]
1058+50.60 RT 109.44 [RMV CB 05-02]
1059+50.69 RT 103.73 [RMV CB 05-03]

REMOVE TRENCH DRAIN REQ'D
I-15
1057+10.00 RT 108.63 TO
1059+90.00 RT 108.38

REMOVE PIPE REQ'D
I-15
[RMV P 05-01] RMV CB 05-01 TO 1057+50.31 RT 138.36
[RMV P 05-02] RMV CB 05-02 TO 1058+54.79 RT 130.39
[RMV P 05-03] RMV CB 05-03 TO 1059+52.73 RT 119.63
[RMV P 05-04] EX CB 05-04 TO 1060+54.03 RT 115.72

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
I-15
1057+00.19 LT 116.41 [MH 05-12]

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1060+36.11 LT 98.29 [CB 05-10]
1058+53.11 LT 108.22 [CB 05-11]
1057+45.83 LT 7.02 [CB 05-14]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 05-10] CB 05-10 TO CB 05-11
[P 05-11] CB 05-11 TO MH 05-12
[P 05-13] RS CB 03-13 TO CB 05-14

RECONSTRUCT CATCH BASIN REQ'D
I-15
1058+01.50 LT 1.26 [RS CB 05-13]

REMOVE CATCH BASIN REQ'D
I-15
1057+52.20 LT 1.34 [RMV CB 05-14]

NOTES:
1. SEE WALL DETAIL SHEETS FOR PIPES UNDER/THROUGH NOISE WALLS. STAKE OUT LOCATIONS OF WALL COLUMNS PRIOR TO PIPE INSTALLATION.
2. CONNECT MH5-12 TO EXISTING PIPE.

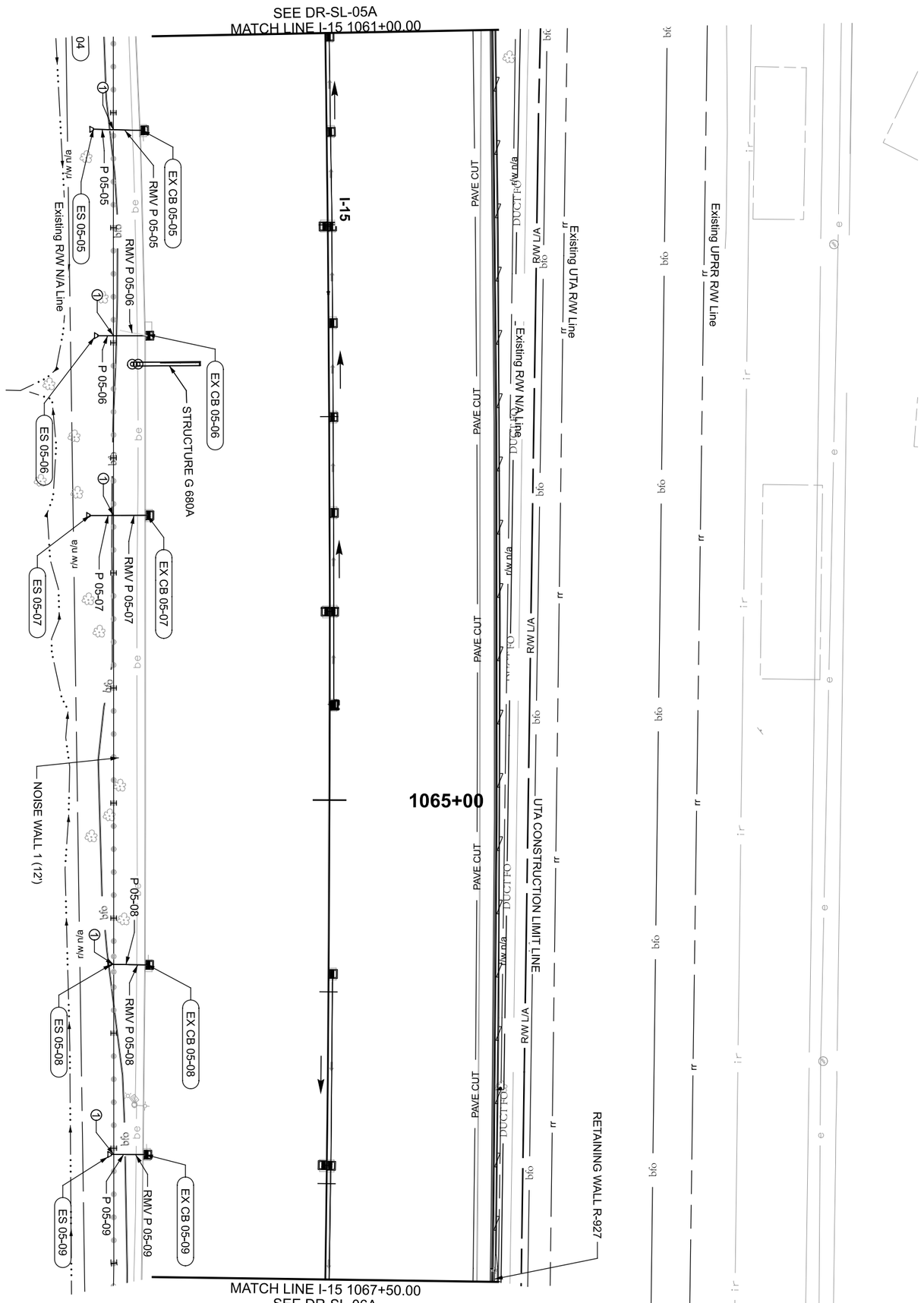
PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP			REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED		DRAWN BY AJB	NO. DATE APPROVED BY REMARKS
	DRAINAGE	PROFESSIONAL ENGINEER	01/11/23 DATE	QC CHECKED BY CMR	

SHEET NO. DR-SL-05A

EXHIBIT A

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE



CIRCULAR END SECTION 12 INCH REQ'D
I-15
1061+48.68 RT 121.64 [ES 05-05]
1062+56.94 RT 120.32 [ES 05-06]
1063+51.18 RT 124.91 [ES 05-07]
1065+86.48 RT 113.41 [ES 05-08]
1066+86.10 RT 112.44 [ES 05-09]

DRAINAGE PIPE - 12 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 05-05] EX CB 05-05 TO ES 05-05
[P 05-06] EX CB 05-06 TO ES 05-06
[P 05-07] EX CB 05-07 TO ES 05-07
[P 05-08] EX CB 05-08 TO ES 05-08
[P 05-09] EX CB 05-09 TO ES 05-09

REMOVE PIPE REQ'D
I-15
[RMV P 05-05] 1061+49.59 RT 96.34
[EX CB 05-05] TO 1061+49.38 RT 114.27
[RMV P 05-06] 1062+57.14 RT 94.69
[EX CB 05-06] TO 1062+54.27 RT 108.59
[RMV P 05-07] 1063+51.18 RT 95.13
[EX CB 05-07] TO 1063+51.46 RT 108.45
[RMV P 05-08] 1065+86.62 RT 94.82
[EX CB 05-08] TO 1065+86.78 RT 104.09
[RMV P 05-09] 1066+85.97 RT 94.86
[EX CB 05-09] TO 1066+86.55 RT 104.87

NOTES:
1. SEE WALL DETAIL SHEETS FOR PIPES UNDER/THROUGH NOISE WALLS. STAKE OUT LOCATIONS OF WALL COLUMNS PRIOR TO PIPE INSTALLATION.

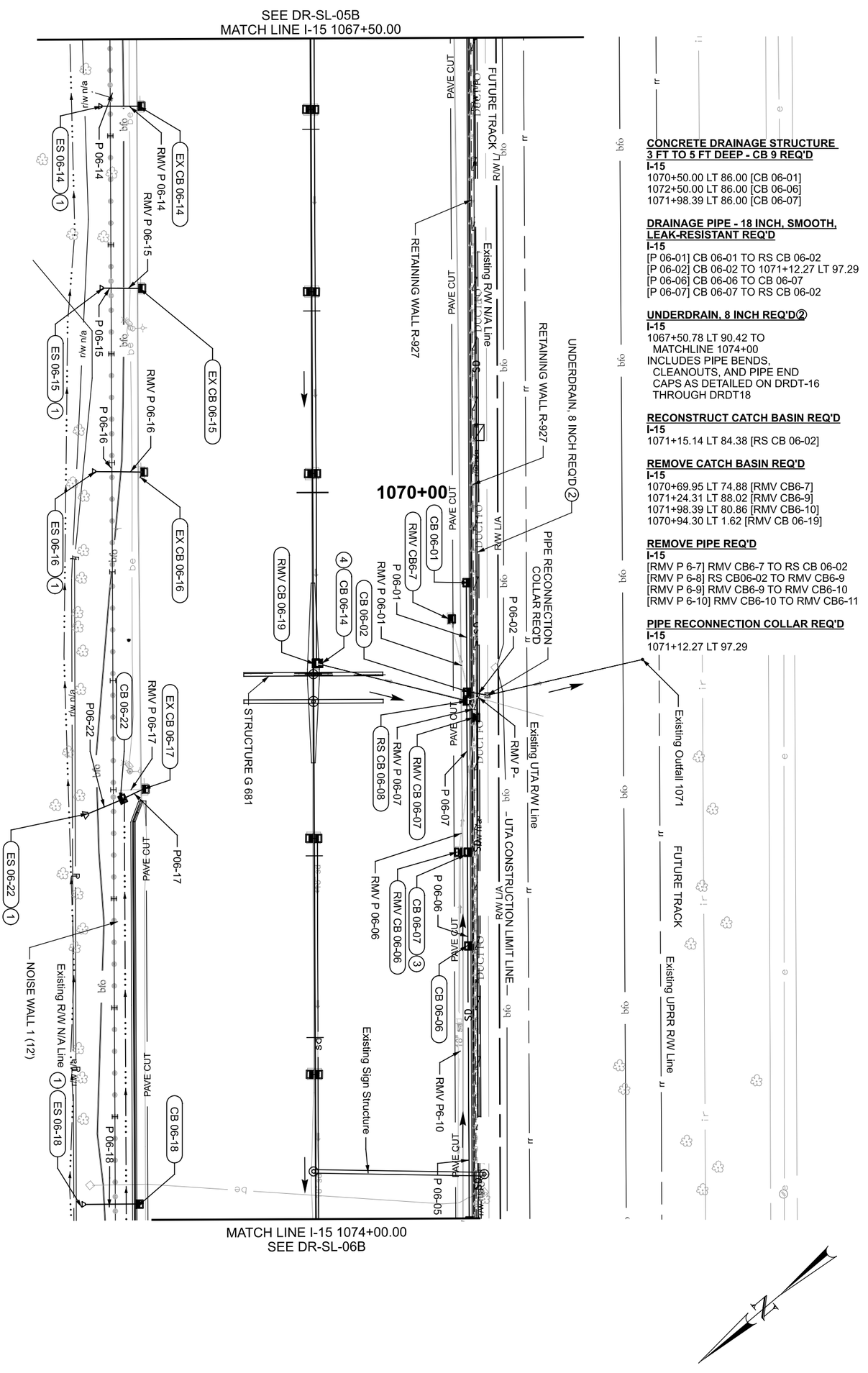
PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	**UTAH DEPARTMENT OF TRANSPORTATION** WALL CONSULTANT GROUP			REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY	AJB	NO. DATE APPROVED BY REMARKS
	DRAINAGE	PROFESSIONAL ENGINEER 01/11/23 DATE	QC CHECKED BY	CMR	

SHEET NO. DR-SL-051

EXHIBIT A

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE



CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1073+92.79 RT 98.50 [CB 06-18]
1071+63.07 RT 104.39 [CB 06-22]

CIRCULAR END SECTION 12 INCH REQ'D
I-15
1067+72.33 RT 123.72 [ES 06-14]
1068+86.56 RT 130.50 [ES 06-15]
1069+84.01 RT 126.14 [ES 06-16]
1073+93.81 RT 129.89 [ES 06-18]
1071+63.31 RT 129.55 [ES 06-22]

DRAINAGE PIPE - 12 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 06-14] 1067+86.86 RT 94.67
[EX CB 06-14] TO ES 06-14
[P 06-15] 1068+87.13 RT 94.78
[EX CB 06-15] TO ES 06-15
[P 06-16] 1069+90.95 RT 95.00
[EX CB 06-16] TO ES 06-16
[P 06-17] 1071+62.88 RT 94.15
[EX CB 06-17] TO CB 06-22
[P 06-18] CB 06-18 TO ES 06-18
[P 06-22] CB 06-22 TO ES 06-22

REMOVE PIPE REQ'D
I-15
[RMV P 06-14] EX CB 06-14 TO 1067+87.55 RT 104.56
[RMV P 06-15] EX CB 06-15 TO 1068+86.85 RT 106.85
[RMV P 06-16] EX CB 06-16 TO 1069+88.48 RT 104.74
[RMV P 06-17] EX CB 06-17 TO 1071+63.48 RT 107.30

REMOVE CATCH BASIN REQ'D
I-15
1070+93.93 RT 0.18 [RMV CB 06-19]

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1070+50.00 LT 86.00 [CB 06-01]
1072+50.00 LT 86.00 [CB 06-06]
1071+98.39 LT 86.00 [CB 06-07]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 06-01] CB 06-01 TO RS CB 06-02
[P 06-02] CB 06-02 TO 1071+12.27 LT 97.29
[P 06-06] CB 06-06 TO CB 06-07
[P 06-07] CB 06-07 TO RS CB 06-02

UNDERDRAIN, 8 INCH REQ'D (2)
I-15
1067+50.78 LT 90.42 TO MATCHLINE 1074+00
INCLUDES PIPE BENDS, CLEANOUTS, AND PIPE END CAPS AS DETAILED ON DRDT-16 THROUGH DRDT18

RECONSTRUCT CATCH BASIN REQ'D
I-15
1071+15.14 LT 84.38 [RS CB 06-02]

REMOVE CATCH BASIN REQ'D
I-15
1070+69.95 LT 74.88 [RMV CB6-7]
1071+24.31 LT 88.02 [RMV CB6-9]
1071+98.39 LT 80.86 [RMV CB6-10]
1070+94.30 LT 1.62 [RMV CB 06-19]

REMOVE PIPE REQ'D
I-15
[RMV P 6-7] RMV CB6-7 TO RS CB 06-02
[RMV P 6-8] RS CB06-02 TO RMV CB6-9
[RMV P 6-9] RMV CB6-9 TO RMV CB6-10
[RMV P 6-10] RMV CB6-10 TO RMV CB6-11

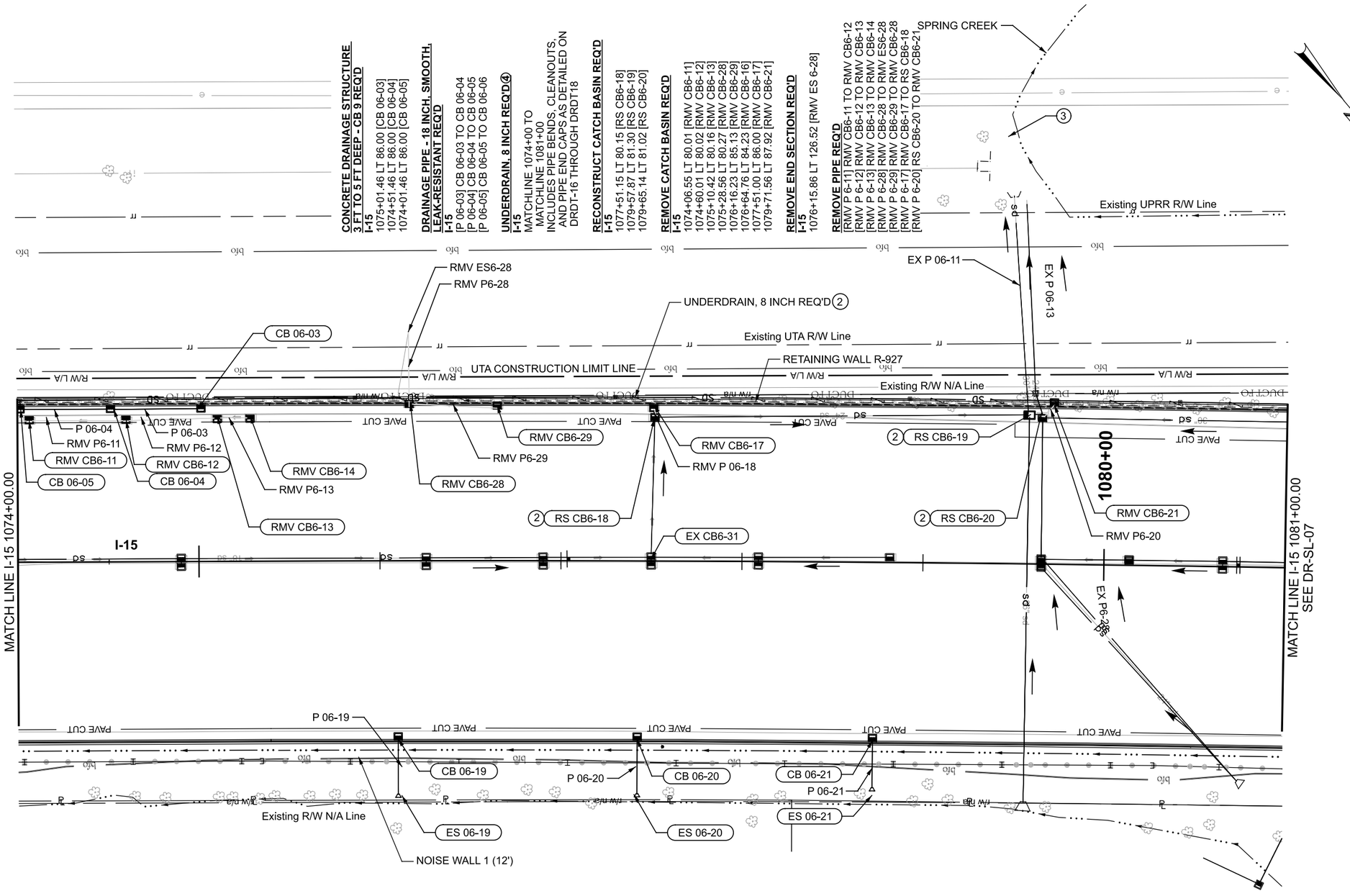
PIPE RECONNECTION COLLAR REQ'D
I-15
1071+12.27 LT 97.29

NOTES:
1. SEE WALL SHEETS FOR PIPE UNDER/THROUGH NOISE WALL. STAKE OUT LOCATIONS OF WALL COLUMNS PRIOR TO INSTALLATION.
2. INSTALL UNDERDRAIN AS SHOWN ON DRDT-11 AND DRDT-16 THROUGH 18. INSTALL UNDERDRAIN CLEANOUTS AT 200 FT MAX SPACING.
3. TIE UNDERDRAIN OUTFALL PIPE TO CB 06-07. SEE DRDT-17
4. REMOVE EXCB AND REPLACE WITH CB 06- TO FIT DRAINAGE AROUND NEW SIGN STRUCTURE.
5. SEE DRDT-03 FOR DETAILS ON PIPE CONNECTIONS HERE.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP			REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED		DRAWN BY AJB	NO. DATE APPROVED BY REMARKS
	DRAINAGE	PROFESSIONAL ENGINEER	01/11/23 DATE	QC CHECKED BY CMR	

SHEET NO. DR-SL-06/ 227

EXHIBIT A



CONCRETE DRAINAGE STRUCTURE
3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1075+01.46 LT 86.00 [CB 06-03]
1074+51.46 LT 86.00 [CB 06-04]
1074+01.46 LT 86.00 [CB 06-05]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
I-15
[P 06-03] CB 06-03 TO CB 06-04
[P 06-04] CB 06-04 TO CB 06-05
[P 06-05] CB 06-05 TO CB 06-06

UNDERDRAIN, 8 INCH REQ'D (4)
I-15
MATCHLINE 1074+00 TO
MATCHLINE 1081+00
INCLUDES PIPE BENDS, CLEANOUTS, AND PIPE END CAPS AS DETAILED ON DRDT-16 THROUGH DRDT18

RECONSTRUCT CATCH BASIN REQ'D
I-15
1077+51.15 LT 80.15 [RS CB6-18]
1079+57.87 LT 81.30 [RS CB6-19]
1079+65.14 LT 81.02 [RS CB6-20]

REMOVE CATCH BASIN REQ'D
I-15
1074+06.55 LT 80.01 [RMV CB6-11]
1074+60.01 LT 80.02 [RMV CB6-12]
1075+10.42 LT 80.16 [RMV CB6-13]
1075+28.56 LT 80.27 [RMV CB6-28]
1076+16.23 LT 85.13 [RMV CB6-29]
1076+64.76 LT 84.23 [RMV CB6-16]
1077+51.00 LT 86.00 [RMV CB6-17]
1079+71.56 LT 87.92 [RMV CB6-21]

REMOVE END SECTION REQ'D
I-15
1076+15.86 LT 126.52 [RMV ES 6-28]

REMOVE PIPE REQ'D
[RMV P 6-11] RMV CB6-11 TO RMV CB6-12
[RMV P 6-12] RMV CB6-12 TO RMV CB6-13
[RMV P 6-13] RMV CB6-13 TO RMV CB6-14
[RMV P 6-28] RMV CB6-28 TO RMV ES6-28
[RMV P 6-29] RMV CB6-29 TO RMV CB6-28
[RMV P 6-17] RMV CB6-17 TO RS CB6-18
[RMV P 6-20] RS CB6-20 TO RMV CB6-21

CONCRETE DRAINAGE STRUCTURE
3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1076+11.92 RT 98.50 [CB 06-19]
1077+42.43 RT 98.50 [CB 06-20]
1078+72.94 RT 98.50 [CB 06-21]

CIRCULAR END SECTION 12 INCH REQ'D
I-15
1076+11.91 RT 129.80 [ES 06-19]
1077+40.77 RT 129.13 [ES 06-20]
1078+72.87 RT 128.80 [ES 06-21]

DRAINAGE PIPE - 12 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 06-19] CB 06-19 TO ES 06-19
[P 06-20] CB 06-20 TO ES 06-20
[P 06-21] CB 06-21 TO ES 06-21

NOTES:

1. SEE WALL SHEETS FOR PIPE UNDER/THROUGH NOISE WALL. STAKE OUT LOCATIONS OF WALL COLUMNS PRIOR TO PIPE INSTALLATION.
2. RECONSTRUCT CATCH BASIN WITH ROUND MANHOLE LID.
3. SEE DRDT-04 FOR DETAILS ON PIPE CONNECTIONS HERE.
4. INSTALL UNDERDRAIN AS SHOWN ON DRDT-11 AND DRDT-16 THROUGH 18. INSTALL UNDERDRAIN CLEANOUTS AT 200 FT MAX SPACING.

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER

DRAWN BY	AJB
QC CHECKED BY	CMR
DATE	01/11/23

I-15; SHEPARD LN INTCHG & PED OVERPASS

PROJECT
PROJECT NUMBER S-I15-7(340)325
PIN 15684

DRAINAGE

SHEET NO. DR-SL-06B

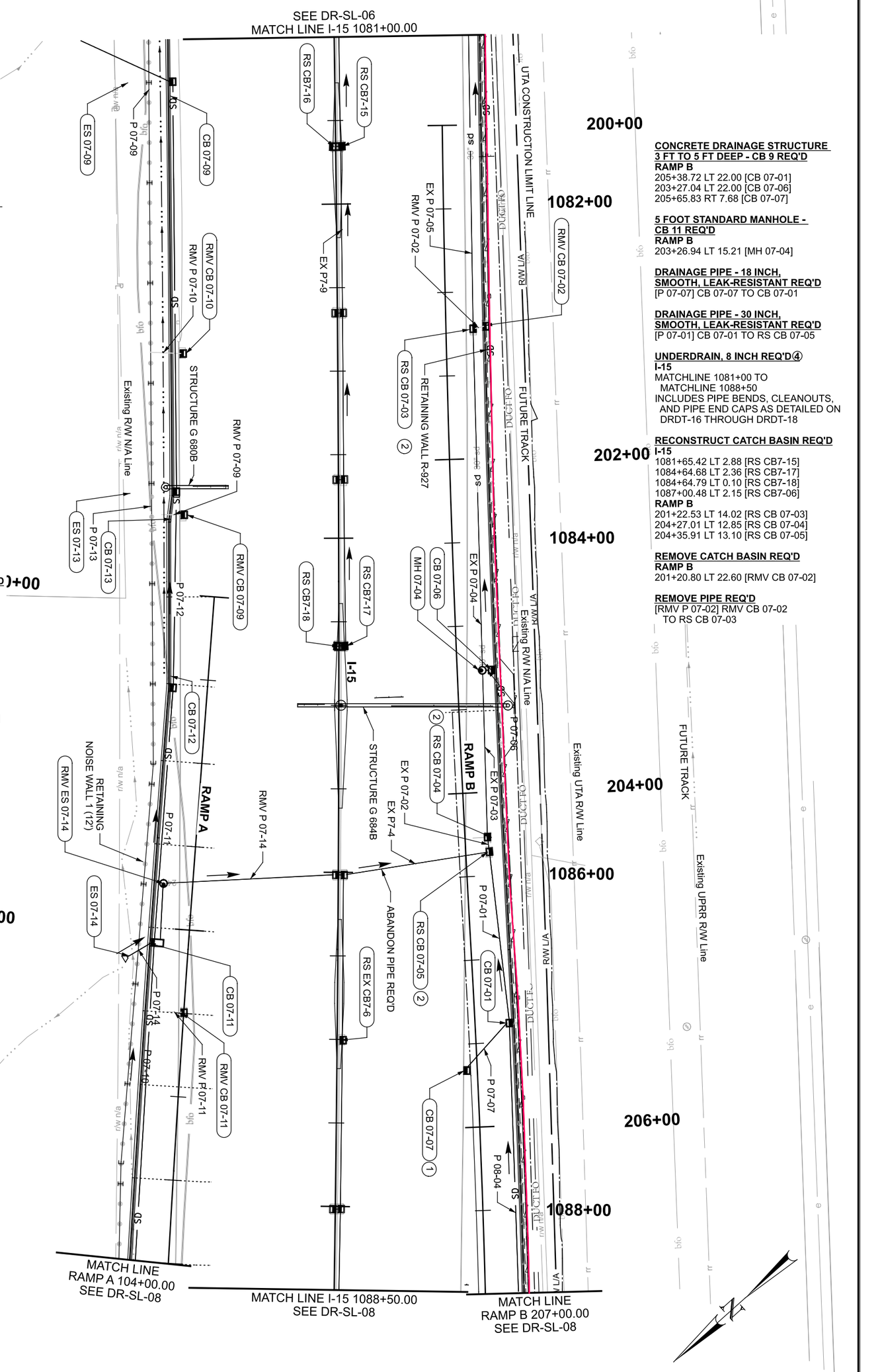
2/16/2023 7:45:00 AM dw:\hornocks-pw.bentley.com:hornocks-pw-01\Documents\Projects\20211UT-3919-2103 I-15, Shepard Lane Int-Prevcon, Engineer\15684\Sheet_Files\Hydraulics\15684_DR-SL-06B.dgn

EXHIBIT A

2/16/2023 7:50:31 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Hydraulics/15684_DR-SL-07.dgn

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE



CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1081+33.96 RT 98.50 [CB 07-09]
1083+88.26 RT 100.27 [CB 07-13]
1084+82.58 RT 100.66 [CB 07-12]
RAMP A
103+35.90 RT 22.00 [CB 07-10]
102+09.82 RT 22.00 [CB 07-11]

CIRCULAR END SECTION 12 INCH REQ'D
I-15
1081+25.67 RT 123.90 [ES 07-09]

CIRCULAR END SECTION 24 INCH REQ'D
I-15
1083+72.64 RT 124.72 [ES 7-13]
RAMP A
102+18.40 RT 32.81 [ES 7-14]

DRAINAGE PIPE - 12 INCH, REINFORCED CONCRETE, LEAK-RESISTANT REQ'D
[P 07-09] CB 07-09 TO ES 07-09

DRAINAGE PIPE - 24 INCH, REINFORCED CONCRETE, LEAK-RESISTANT REQ'D
[P 07-10] CB 07-10 TO CB 07-11
[P 07-11] CB 07-11 TO CB 07-12
[P 07-12] CB 07-12 TO CB 07-13
[P 07-13] CB 07-13 TO ES 07-13
[P 07-14] ES 07-14 TO CB 07-11

RECONSTRUCT CATCH BASIN REQ'D
I-15
1081+65.66 RT 0.87 [RS CB7-16]

REMOVE CATCH BASIN REQ'D
I-15
1083+85.69 RT 93.85 [RMV CB 07-09]
1082+88.79 RT 93.92 [RMV CB 07-10]
RAMP A
102+49.66 LT 1.74 [RMV CB 07-11]

REMOVE END SECTION REQ'D
I-15
1086+06.94 RT 102.12 [RMV ES 07-14]

REMOVE PIPE REQ'D
I-15
[RMV P 07-09] RMV CB 07-09 TO 1083+85.47 RT 105.81
[RMV P 07-10] RMV CB 07-10 TO 1082+87.80 RT 112.162
[RMV P 07-14] 1086+01.54 RT 3.09 TO RMV ES 07-14
RAMP A
[RMV P 07-11] RMV CB 07-11 TO 102+49.79 RT 6.86

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP B
205+38.72 LT 22.00 [CB 07-01]
203+27.04 LT 22.00 [CB 07-06]
205+65.83 RT 7.68 [CB 07-07]

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
RAMP B
203+26.94 LT 15.21 [MH 07-04]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 07-07] CB 07-07 TO CB 07-01

DRAINAGE PIPE - 30 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 07-01] CB 07-01 TO RS CB 07-05

UNDERDRAIN, 8 INCH REQ'D④
I-15
MATCHLINE 1081+00 TO MATCHLINE 1088+50
INCLUDES PIPE BENDS, CLEANOUTS, AND PIPE END CAPS AS DETAILED ON DRDT-16 THROUGH DRDT-18

RECONSTRUCT CATCH BASIN REQ'D
I-15
1081+65.42 LT 2.88 [RS CB7-15]
1084+64.68 LT 2.36 [RS CB7-17]
1084+64.79 LT 0.10 [RS CB7-18]
1087+00.48 LT 2.15 [RS CB7-06]
RAMP B
201+22.53 LT 14.02 [RS CB 07-03]
204+27.01 LT 12.85 [RS CB 07-04]
204+35.91 LT 13.10 [RS CB 07-05]

REMOVE CATCH BASIN REQ'D
RAMP B
201+20.80 LT 22.60 [RMV CB 07-02]

REMOVE PIPE REQ'D
[RMV P 07-02] RMV CB 07-02 TO RS CB 07-03

NOTES:
1. PLACE CB07-07 AT LOWPOINT IN UNPAVED GORE AREA.
2. RECONSTRUCT CATCH BASIN WITH A MANHOLE LID - GF 7 SOLID LID.
3. SEE WALL SHEETS FOR PIPE UNDER/THROUGH NOISE WALL.
4. INSTALL UNDER DRAIN AS SHOWN ON DRDT-12 AND DRDT-16 THROUGH 18. INSTALL UNDERDRAIN CLEANOUTS AT 200 FT MAX SPACING.

SHEET NO. DR-SL-07	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY AJB	NO. DATE APPROVED BY REMARKS
	DRAINAGE		PROFESSIONAL ENGINEER 01/11/23 DATE	QC CHECKED BY CMR	

EXHIBIT A

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE

SEE DR-SL-07 MATCH LINE RAMP A 104+00.00

SEE DR-SL-07 MATCH LINE I-15 1088+50.00

SEE DR-SL-07 MATCH LINE RAMP B 207+00.00

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1089+98.72 RT 86.50 [CB 08-12]
RAMP A
106+22.02 RT 22.00 [CB 08-14]
109+19.53 RT 22.00 [CB 08-15]

CIRCULAR END SECTION 18 INCH REQ'D
RAMP A
109+19.58 LT 28.63 [ES 08-15]
I-15
1090+27.74 RT 99.08 [ES 08-13]

CONCRETE HEADWALL REQ'D
TRASH RACK REQ'D
RAMP A
108+98.61 RT 70.45 [ES 08-08]

LOOSE RIPRAP REQ'D
RAMP A
109+19.58 LT 28.63 [ES 08-15]

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
RAMP A
108+05.05 LT 33.73 [MH 08-09]
106+22.02 LT 14.00 [MH 08-10]
105+62.21 LT 14.00 [MH 08-11]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 08-12] CB 08-12 TO MH 08-11
[P 08-14] CB 08-14 TO MH 08-10
[P 08-15] CB 08-15 TO ES 08-15

DRAINAGE PIPE - 24 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 08-08] ES 08-08 TO MH 08-09
[P 08-09] MH 08-09 TO MH 08-10
[P 08-10] MH 08-10 TO MH 08-11
[P 08-11] MH 08-11 TO CB 07-10
[P 08-13] ES 08-13 TO MH 08-11

UNDERDRAIN CLEANOUT REQ'D①
RAMP A
108+52.12 RT 55.99 [UDCO 08-16]
107+57.47 RT 46.77 [UDCO 08-17]
106+56.64 RT 44.23 [UDCO 08-18]

UNDERDRAIN, 8 INCH REQ'D①
[UD 08-16] UDCO 08-16 TO UDCO 08-17
[UD 08-17] UDCO 08-17 TO UDCO 08-18
[UD 08-18] UDCO 08-18 TO CB 08-14

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15
1094+69.19 LT 76.76 [CB 08-01]
1091+69.19 LT 77.00 [CB 08-02]
RAMP B
209+73.62 LT 23.26 [CB 08-03]
207+53.66 LT 22.00 [CB 08-04]
208+93.27 LT 24.07 [CB 08-07]
209+73.28 LT 29.39 [CB 08-08]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 08-01] CB 08-01 TO CB 08-02
[P 08-02] CB 08-02 TO CB 08-03
[P 08-05] CB 08-05 TO CB 08-03
[P 08-07] CB 08-07 TO CB 08-05

DRAINAGE PIPE - 30 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 08-03] CB 08-03 TO CB 08-04
[P 08-04] CB 08-04 TO CB 07-01
[P 08-20] ES 08-20 TO ES 08-21

UNDERDRAIN, 8 INCH REQ'D 1
I-15
MATCHLINE 1088+50 TO 1090+47.40 LT 121.92
INCLUDES PIPE BENDS, CLEANOUTS, AND PIPE END CAPS AS DETAILED ON DRDT-16 THROUGH DRDT-18

LOOSE RIPRAP REQ'D
RAMP B
212+09.49 LT 35.12 [ES 08-06]

CIRCULAR END SECTION 18 INCH REQ'D
RAMP B
212+15.78 LT 47.23 [ES 08-21]
213+89.86 LT 52.12 [ES 08-20]

DOWNDRAIN ITEMS (DRDT-11):
CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP B
212+09.58 LT 32.70 [CB 08-06]

12 IN SDR-17 HDPE FUSION WELDED PIPE REQ'D
RAMP B
[P 08-06] CB 08-06 TO ES 08-06

DOWNDRAIN NOZZLE REQ'D
RAMP B
212+09.49 LT 35.12 [ES 08-06]

NOTES:
1. INSTALL UNDER DRAIN AS SHOWN ON DRDT-12. INSTALL UNDERDRAIN CLEANOUTS AT 200 FT MAX SPACING.

REMOVE CATCH BASIN REQ'D
I-15
1090+45.12 RT 90.49
[RMV CB 8-10]

REMOVE END SECTION REQ'D
I-15
1090+44.88 RT 99.06
[RMV ES 8-10]
1094+31.76 RT 119.03
[RMV ES8-1]

REMOVE PIPE REQ'D
[RMV P 8-10] RMV CB 8-10 TO ES 8-10

MATCH LINE RAMP A 111+50.00 SEE DR-SL-09

MATCH LINE I-15 1096+00.00 SEE DR-SL-09

MATCH LINE RAMP B 214+50.00 SEE DR-SL-09

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS				
PROJECT NUMBER	S-I15-7(340)325	PIN	15684		
	DRAINAGE				

UTAH DEPARTMENT OF TRANSPORTATION
WALL CONSULTANT GROUP

APPROVED
PROFESSIONAL ENGINEER
01/11/23
DATE

DRAWN BY AJB
QC CHECKED BY CMR

REVISIONS			
NO.	DATE	APPROVED BY	REMARKS

SHEET NO. DR-SL-08

EXHIBIT A

2/16/2023 7:51:34 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Hydraulics/15684_DR-SL-09.dgn

DRAINAGE KEY:
CB - CATCH BASIN
ES - END SECTION
MH - MANHOLE
P - PIPE
UD - UNDERDRAIN
UDCO - UNDERDRAIN CLEANOUT

MODIFIER:
EX - EXISTING
RS - RECONSTRUCT
RMV - REMOVE

SEE DR-SL-08 MATCH LINE RAMP A 111+50.00

SEE DR-SL-08 MATCH LINE I-15 1096+00.00

SEE DR-SL-08 MATCH LINE RAMP B 214+50.00

RETAINING WALL R-917E

CB 09-10

P 09-10

NOISE WALL 1 (12')

CB 09-09

P 09-09

RETAINING WALL R-917D

RAMP A

RAMP B

RAMP D

RAMP C

I-15

Existing R/W N/A Line

HWY R/W LINE

HWY N/A LINE

RMV MH9-1

RMV ES9-2

RMV P9-2

RMV P9-1

CB 09-04

P 09-04

RETAINING WALL R-917C

CB 09-01

ES 09-01

P 09-01

DOWNDRAIN SEE DRDT-11

LOOSE RIPRAP REQ'D

Existing UTA N/A Line

UTA CONSTRUCTION LIMIT LINE

RETAINING WALL R-917B

P 09-03

CB 09-03

P 09-02

CB 09-02

STRUCTURE C-1089

SEE DR-SL-22 FOR NORTH STATION LN DESIGN ELEMENTS

LOOSE RIPRAP REQ'D (2)

STRUCTURE C-1090

STRUCTURE G 680C

Existing Structure C-598

530+00

216+00

1098+00

218+00

1102+00

302+00

MATCH LINE RAMP A 115+50.00 SEE DR-SL-22

MATCH LINE RAMP B 218+50.00 SEE DR-SL-22

SEE DR-SL-22 MATCH LINE RAMP D 401+00.00

SEE DR-SL-22 MATCH LINE RAMP C 301+00.00

MATCH LINE RAMP D 402+00.00 SEE DR-SL-10

MATCH LINE RAMP C 302+50.00 SEE DR-SL-10

MATCH LINE I-15 1103+50.00 SEE DR-SL-10

MH 09-12

P 09-11

P 09-12

ES 10-19

RIPRAP AT BOTTOM OF BRIDGE DOWNSPOUT. SEE DRDT-08, SEE R-917D PLANS FOR LOCATIONS OF DOWNSPOUTS.

SEE DR-SL-10B FOR P 09-11 AND P 09-12 PIPE PROFILES.

NOTES:

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP A
113+36.34 RT 34.00 [CB 09-09]
112+16.24 RT 22.22 [CB 09-10]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 09-07] MH9-8 TO MH10-11
[P 09-09] CB 09-09 TO CB09-10
[P 09-10] CB09-10 TO CB 08-15
[P 09-12] MH9-12 TO CB26-1

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
RAMP D
401+40.07 RT 87.35 [MH9-12]

REMOVE END SECTION REQ'D
I-15
1099+82.11 RT 98.18 [RMV ES 9-2]

REMOVE MANHOLE REQ'D
I-15
1098+93.55 RT 100.95 [RMV MH 9-1]

LOOSE RIPRAP REQ'D (2)
I-15
1100+27.16 RT 94.51
1101+37.15 RT 91.55

REMOVE PIPE END SECTION REQ'D
[RMV P 9-2] RMV ES 9-2 TO RMV MH 9-1
[RMV P 9-1] RMV MH 9-1 TO RMV ES 8-1

(2) LOOSE RIPRAP REQ'D

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
I-15 MAINLINE
1103+33.68 LT 88.77 [CB 09-02]
1100+71.35 LT 76.00 [CB 09-03]
1097+70.01 LT 77.00 [CB 09-04]
RAMP B
215+94.40 LT 36.00 [CB 09-01]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
[P 09-02] CB 09-02 TO CB 09-03
[P 09-03] CB 09-03 TO CB 09-04
[P 09-04] CB 09-04 TO CB 08-01

DOWNDRAIN ITEMS (DRDT-11):
CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP B
215+94.40 LT 36.00 [CB 09-01]

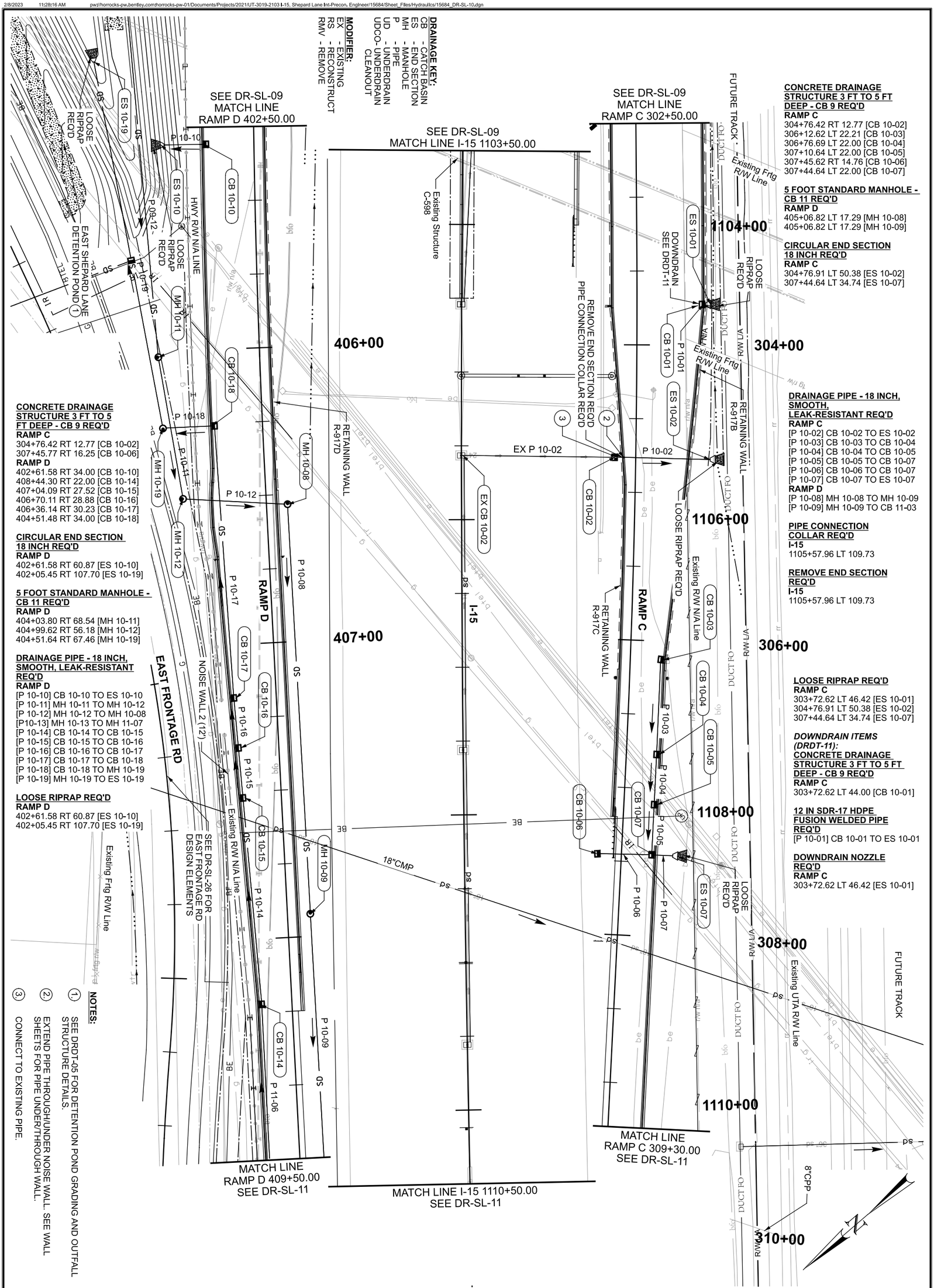
12 IN SDR-17 HDPE FUSION WELDED PIPE REQ'D
[P 09-01] CB 09-01 TO ES 09-01

DOWNDRAIN NOZZLE REQ'D
RAMP B
215+94.37 LT 38.42 [ES 09-01]

LOOSE RIPRAP REQ'D
RAMP B
215+94.37 LT 38.42

SHEET NO. DR-SL-09	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY AJB	NO. DATE APPROVED BY REMARKS
	DRAINAGE		PROFESSIONAL ENGINEER 01/11/23 DATE	QC CHECKED BY CMR	

EXHIBIT A



CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP C
304+76.42 RT 12.77 [CB 10-02]
307+45.77 RT 16.25 [CB 10-06]
RAMP D
402+61.58 RT 34.00 [CB 10-10]
408+44.30 RT 22.00 [CB 10-14]
407+04.09 RT 27.52 [CB 10-15]
406+70.11 RT 28.88 [CB 10-16]
406+36.14 RT 30.23 [CB 10-17]
404+51.48 RT 34.00 [CB 10-18]

CIRCULAR END SECTION 18 INCH REQ'D
RAMP D
402+61.58 RT 60.87 [ES 10-10]
402+05.45 RT 107.70 [ES 10-19]

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
RAMP D
404+03.80 RT 68.54 [MH 10-11]
404+99.62 RT 56.18 [MH 10-12]
404+51.64 RT 67.46 [MH 10-19]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
RAMP D
[P 10-10] CB 10-10 TO ES 10-10
[P 10-11] MH 10-11 TO MH 10-12
[P 10-12] MH 10-12 TO MH 10-08
[P10-13] MH 10-13 TO MH 11-07
[P 10-14] CB 10-14 TO CB 10-15
[P 10-15] CB 10-15 TO CB 10-16
[P 10-16] CB 10-16 TO CB 10-17
[P 10-17] CB 10-17 TO CB 10-18
[P 10-18] CB 10-18 TO MH 10-19
[P 10-19] MH 10-19 TO ES 10-19

LOOSE RIPRAP REQ'D
RAMP D
402+61.58 RT 60.87 [ES 10-10]
402+05.45 RT 107.70 [ES 10-19]

CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP C
304+76.42 RT 12.77 [CB 10-02]
306+12.62 LT 22.21 [CB 10-03]
306+76.69 LT 22.00 [CB 10-04]
307+10.64 LT 22.00 [CB 10-05]
307+45.62 RT 14.76 [CB 10-06]
307+44.64 LT 22.00 [CB 10-07]

5 FOOT STANDARD MANHOLE - CB 11 REQ'D
RAMP D
405+06.82 LT 17.29 [MH 10-08]
405+06.82 LT 17.29 [MH 10-09]

CIRCULAR END SECTION 18 INCH REQ'D
RAMP C
304+76.91 LT 50.38 [ES 10-02]
307+44.64 LT 34.74 [ES 10-07]

DRAINAGE PIPE - 18 INCH, SMOOTH, LEAK-RESISTANT REQ'D
RAMP C
[P 10-02] CB 10-02 TO ES 10-02
[P 10-03] CB 10-03 TO CB 10-04
[P 10-04] CB 10-04 TO CB 10-05
[P 10-05] CB 10-05 TO CB 10-07
[P 10-06] CB 10-06 TO CB 10-07
[P 10-07] CB 10-07 TO ES 10-07
RAMP D
[P 10-08] MH 10-08 TO MH 10-09
[P 10-09] MH 10-09 TO CB 11-03

PIPE CONNECTION COLLAR REQ'D
I-15
1105+57.96 LT 109.73

REMOVE END SECTION REQ'D
I-15
1105+57.96 LT 109.73

LOOSE RIPRAP REQ'D
RAMP C
303+72.62 LT 46.42 [ES 10-01]
304+76.91 LT 50.38 [ES 10-02]
307+44.64 LT 34.74 [ES 10-07]

DOWNDRAIN ITEMS (DRDT-11):
CONCRETE DRAINAGE STRUCTURE 3 FT TO 5 FT DEEP - CB 9 REQ'D
RAMP C
303+72.62 LT 44.00 [CB 10-01]

12 IN SDR-17 HDPE FUSION WELDED PIPE REQ'D
[P 10-01] CB 10-01 TO ES 10-01

DOWNDRAIN NOZZLE REQ'D
RAMP C
303+72.62 LT 46.42 [ES 10-01]

NOTES:
1. SEE DRDT-05 FOR DETENTION POND GRADING AND OUTFALL STRUCTURE DETAILS.
2. EXTEND PIPE THROUGH/UNDER NOISE WALL. SEE WALL SHEETS FOR PIPE UNDER/THROUGH WALL.
3. CONNECT TO EXISTING PIPE.

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP			
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED		DRAWN BY	AJB
	DRAINAGE	PROFESSIONAL ENGINEER	01/11/23 DATE	QC CHECKED BY	CMR

REVISIONS			
NO.	DATE	APPROVED BY	REMARKS

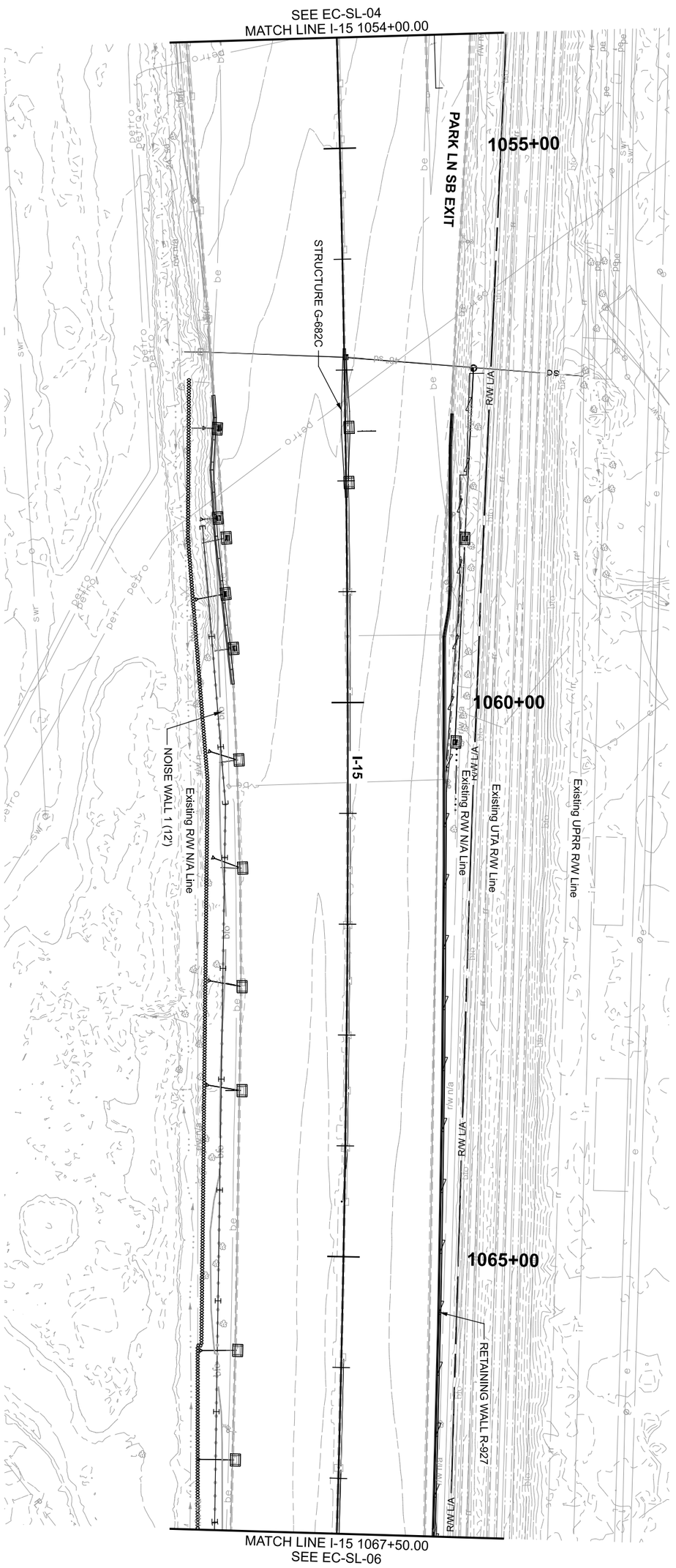
SHEET NO. DR-SL-10

EXHIBIT A

LEGEND

SILT FENCE REQ'D

GUTTER - INLET BARRIER REQ'D



GUTTER - INLET BARRIER REQ'D
I-15
1057+51.28 RT 116.91 [CB 05-01]
1058+32.48 RT 117.29 [CB 05-02]
1059+01.35 RT 110.93 [CB 05-03]
1060+51.78 RT 99.48 [EX CB 05-04]
1061+49.59 RT 96.34 [EX CB 05-05]
1062+56.91 RT 94.70 [EX CB 05-06]
1063+51.18 RT 95.13 [EX CB 05-07]
1065+86.70 RT 94.82 [EX CB 05-08]
1066+85.97 RT 94.86 [EX CB 05-09]
1057+51.28 RT 116.91 [RMV CB 05-01]
1058+50.60 RT 109.44 [RMV CB 05-02]
1059+50.69 RT 103.73 [RMV CB 05-03]

SILT FENCE REQ'D
I-15
1057+05.30 RT 140.41 TO
1058+49.87 RT 143.22 TO
1060+69.94 RT 126.63 TO
1065+82.94 RT 126.51 TO
1065+83.02 RT 129.8 TO
MATCH LINE RT 125.57

GUTTER - INLET BARRIER REQ'D
I-15
1060+36.17 LT 99.16 [CB 05-10]
1058+53.11 LT 108.22 [CB 05-11]
1057+52.30 LT 1.34 [RS CB 05-15]

SILT FENCE REQ'D
I-15
MATCH LINE LT 129.73 TO
1056+77.04 LT 115.02 TO
1056+80.85 LT 146.96 TO
MATCH LINE LT 117.27

N

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP	
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY BOW
	EROSION CONTROL	PROFESSIONAL ENGINEER 01/11/23 DATE	QC CHECKED BY CMR

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

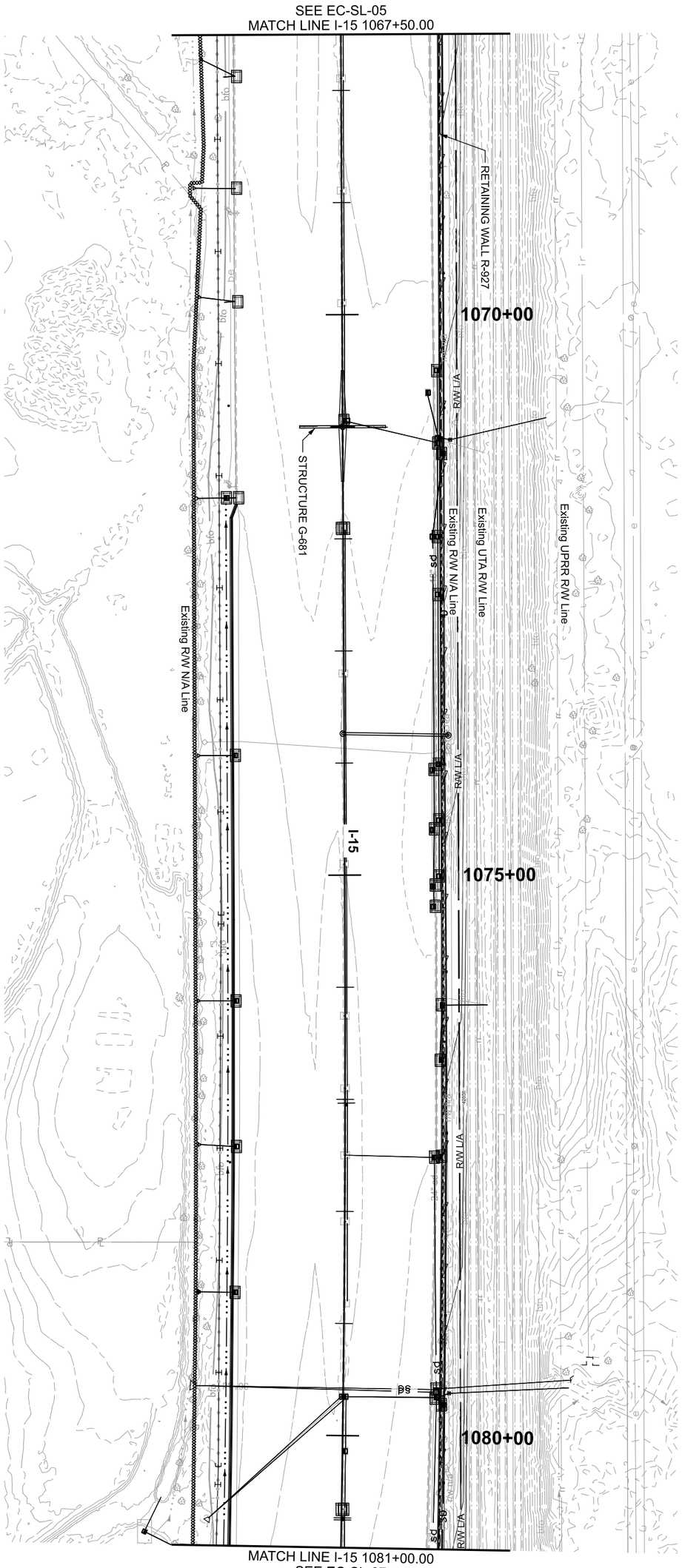
SHEET NO. EC-SL-05

EXHIBIT A

LEGEND

SILT FENCE REQ'D

GUTTER - INLET BARRIER REQ'D



GUTTER - INLET BARRIER REQ'D
I-15
1073+92.79 RT 98.50 [CB 06-18]
1076+11.92 RT 98.50 [CB 06-19]
1077+42.43 RT 98.50 [CB 06-20]
1078+72.94 RT 98.50 [CB 06-21]
1071+63.07 RT 104.39 [CB 06-22]
1071+90.22 RT 0.36 [EX CB6-13]
1067+86.86 RT 94.67 [EX CB 06-14]
1068+87.13 RT 94.78 [EX CB 06-15]
1069+88.28 RT 95.00 [EX CB 06-16]
1071+62.88 RT 94.15 [EX CB 06-17]
1070+94.39 RT 0.62 [EX CB6-19]

SILT FENCE REQ'D
I-15
MATCH LINE RT 125.57 TO
1068+81.45 RT 124.37 TO
1068+82.20 RT 134.9 TO
1068+93.16 RT 135.28 TO
1069+04.86 RT 125.58 TO
1070+46.69 RT 132.90 TO
MATCH LINE RT 132.03

GUTTER - INLET BARRIER REQ'D
I-15
1070+50.00 LT 86.00 [CB 06-01]
1075+01.46 LT 86.00 [CB 06-03]
1074+51.46 LT 86.00 [CB 06-04]
1074+01.46 LT 86.00 [CB 06-05]
1072+50.00 LT 86.00 [CB 06-06]
1071+98.39 LT 86.00 [CB 06-07]
1071+15.14 LT 85.87 [RS CB 06-02]
1077+51.15 LT 80.15 [RS CB6-18]
1079+57.87 LT 81.30 [RS CB6-19]
1079+65.14 LT 81.02 [RS CB6-20]
1070+94.30 LT 1.62 [RS CB06-30]
1070+69.95 LT 74.88 [RMV CB6-7]
1071+24.31 LT 88.02 [RMV CB6-9]
1071+98.39 LT 80.86 [RMV CB6-10]
1074+06.55 LT 80.01 [RMV CB6-11]
1074+60.01 LT 80.02 [RMV CB6-12]
1075+10.42 LT 80.16 [RMV CB6-13]
1075+28.56 LT 80.27 [RMV CB6-28]
1076+16.23 LT 85.13 [RMV CB6-29]
1076+64.76 LT 84.23 [RMV CB6-16]
1077+51.00 LT 86.00 [RMV CB6-17]
1079+71.56 LT 87.92 [RMV CB6-21]
1071+90.37 LT 0.73 [EX CB-9]
1080+65.64 LT 0.47 [EX CB 6-32]
1080+65.56 LT 1.35 [EX CB-19]

SILT FENCE REQ'D
I-15
MATCH LINE 117.27 TO
MATCH LINE LT 124.62

N

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP	REVISIONS
PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER 01/11/23 DATE	DRAWN BY BOW QC CHECKED BY CMR
	EROSION CONTROL		NO. DATE APPROVED BY REMARKS

SHEET NO. EC-SL-06

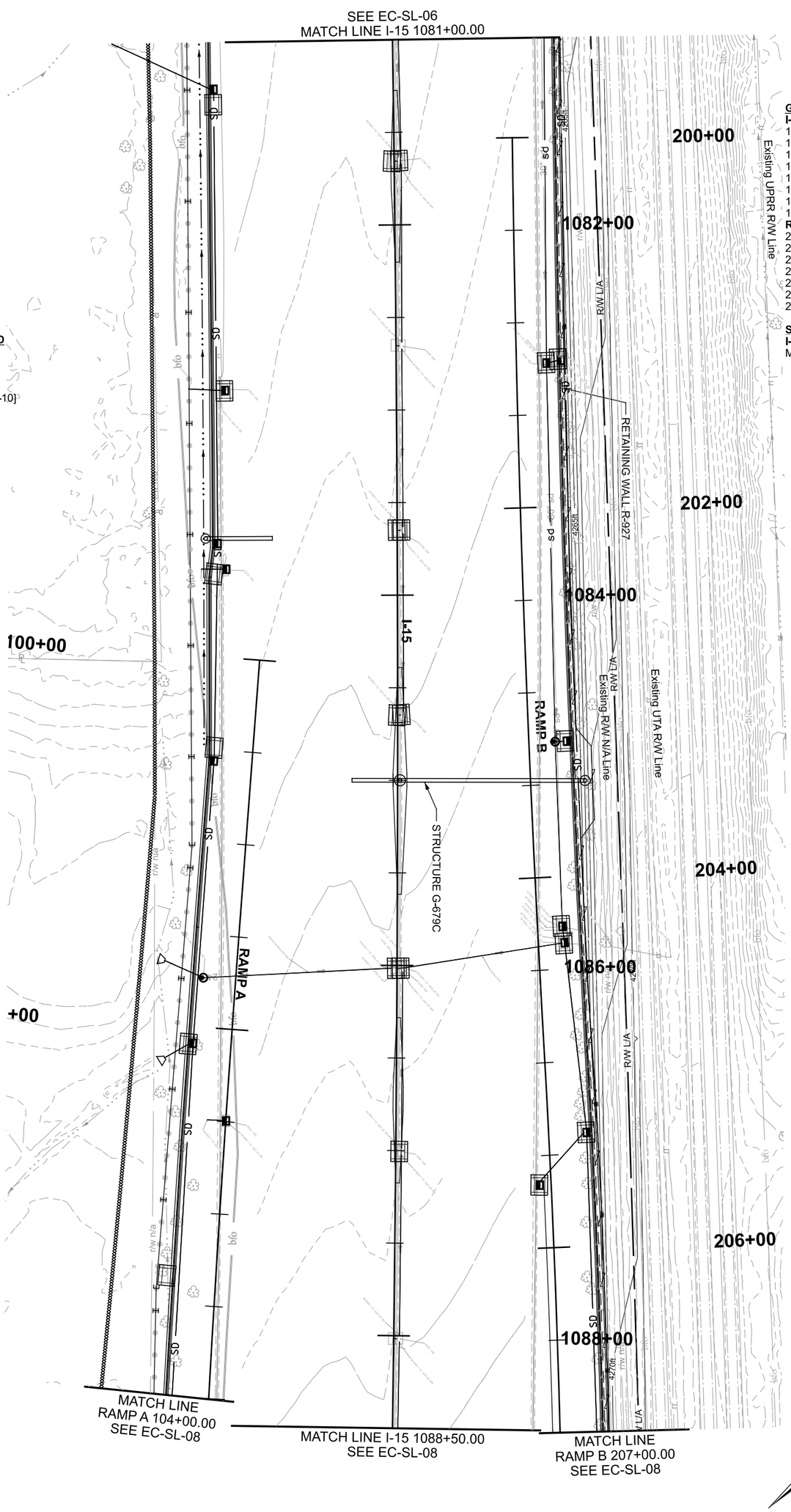
EXHIBIT A

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LEGEND

GUTTER - INLET BARRIER REQ'D

SILT FENCE REQ'D



GUTTER - INLET BARRIER REQ'D
I-15
1081+33.96 RT 98.50 [CB 07-09]
1083+88.26 RT 100.27 [CB 07-13]
1084+82.58 RT 100.66 [CB 07-12]
1082+88.79 RT 93.92 [RMV CB 07-10]
RAMP A
103+35.90 RT 22.00 [CB 07-10]
102+09.82 RT 22.00 [CB 07-11]

SILT FENCE REQ'D
I-15
MATCH LINE RT 132.03 TO
1085+08.64 RT 131.13 TO
MATCH LINE RT 159.20

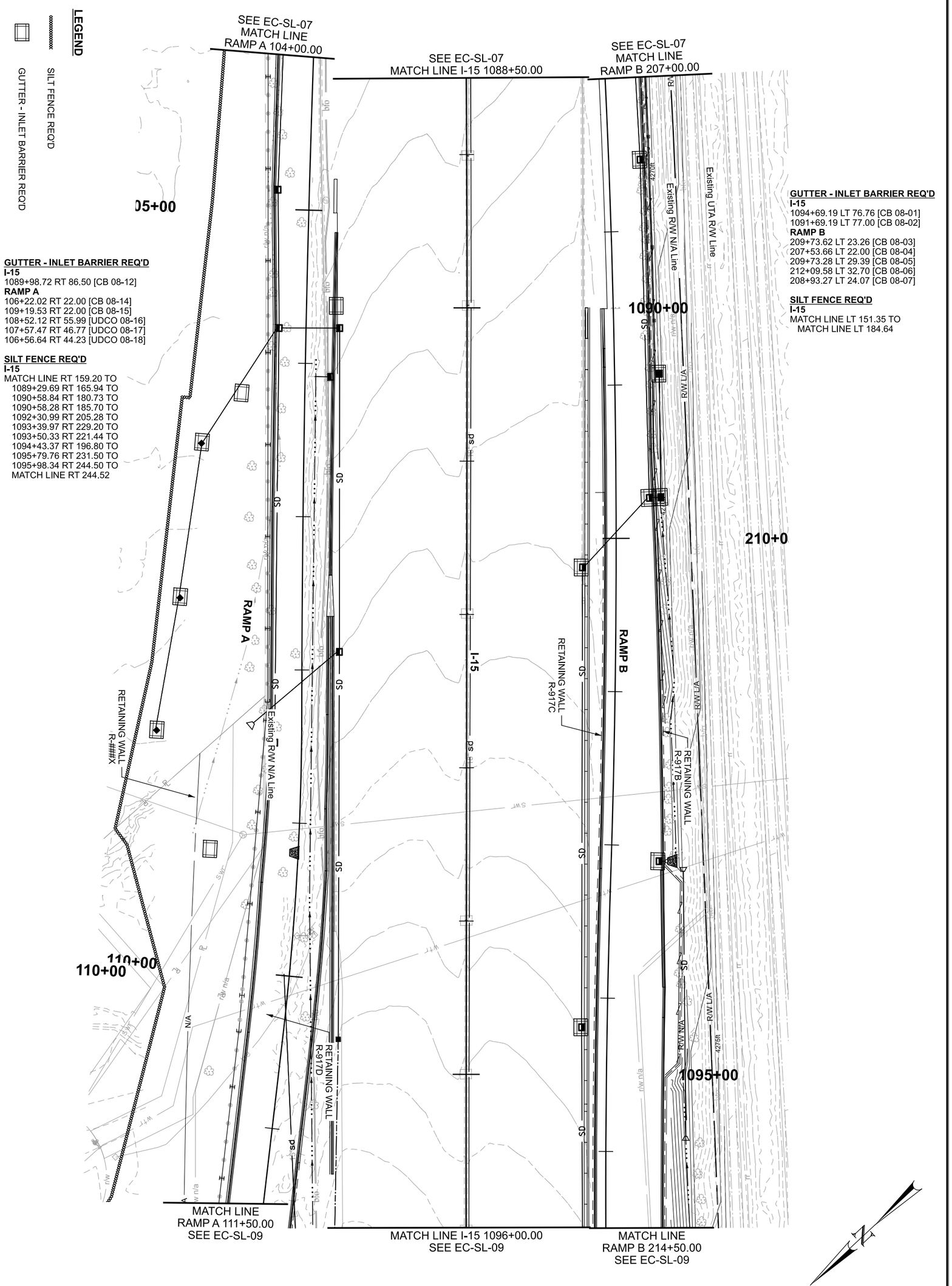
GUTTER - INLET BARRIER REQ'D
I-15
1081+65.42 LT 2.88 [RS CB7-15]
1084+64.68 LT 2.36 [RS CB7-17]
1084+64.79 LT 0.10 [RS CB7-18]
1083+64.85 LT 0.80 [EX CB-16]
1083+65.01 LT 1.55 [EX CB-21]
1086+01.51 LT 0.57 [EX CB7-4]
1087+00.46 LT 0.65 [EX CB7-6]
1086+01.52 LT 1.51 [EX CB 07-12]
RAMP B
205+38.72 LT 22.00 [CB 07-01]
203+27.04 LT 22.00 [CB 07-06]
205+65.83 RT 7.68 [CB 07-07]
201+22.53 LT 14.02 [RS CB 07-03]
204+27.01 LT 12.85 [RS CB 07-04]
204+35.91 LT 13.10 [RS CB 07-05]
201+20.80 LT 22.60 [RMV CB 07-02]

SILT FENCE REQ'D
I-15
MATCH LINE LT 124.62 TO
MATCH LINE LT 151.35

SHEET NO. EC-SL-07	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER 01/11/23 DATE	DRAWN BY BOW QC CHECKED BY CMR	NO. DATE APPROVED BY REMARKS
		EROSION CONTROL			

EXHIBIT A

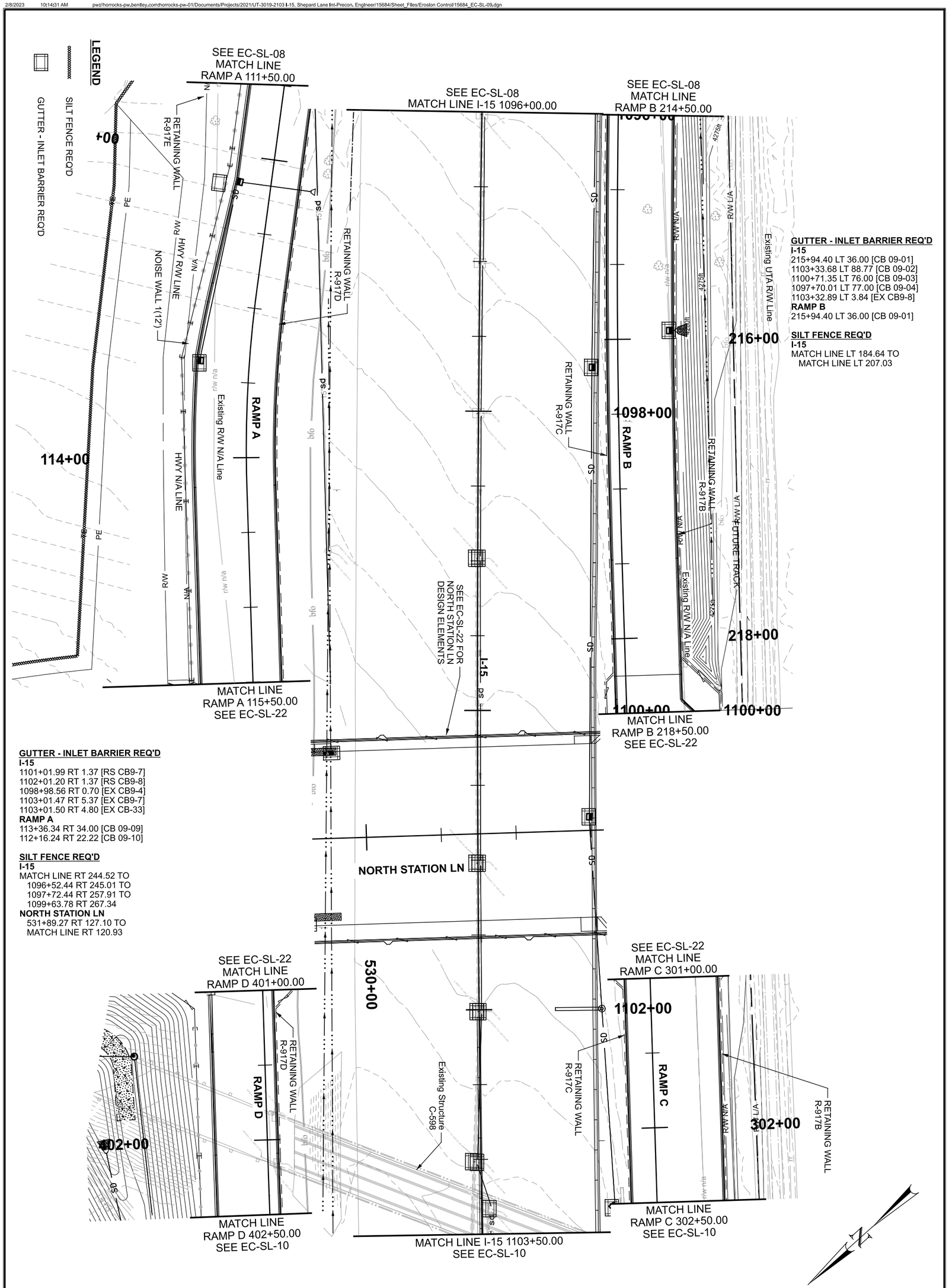
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SHEET NO. EC-SL-08	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS		UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP		REVISIONS	
	PROJECT NUMBER	S-I15-7(340)325	PIN 15684	APPROVED PROFESSIONAL ENGINEER	01/11/23 DATE	DRAWN BY BOW QC CHECKED BY CMR	NO. DATE APPROVED BY REMARKS
		EROSION CONTROL					

EXHIBIT A

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GUTTER - INLET BARRIER REQ'D
I-15
215+94.40 LT 36.00 [CB 09-01]
1103+33.68 LT 88.77 [CB 09-02]
1100+71.35 LT 76.00 [CB 09-03]
1097+70.01 LT 77.00 [CB 09-04]
1103+32.89 LT 3.84 [EX CB9-8]
RAMP B
215+94.40 LT 36.00 [CB 09-01]

SILT FENCE REQ'D
I-15
MATCH LINE LT 184.64 TO MATCH LINE LT 207.03

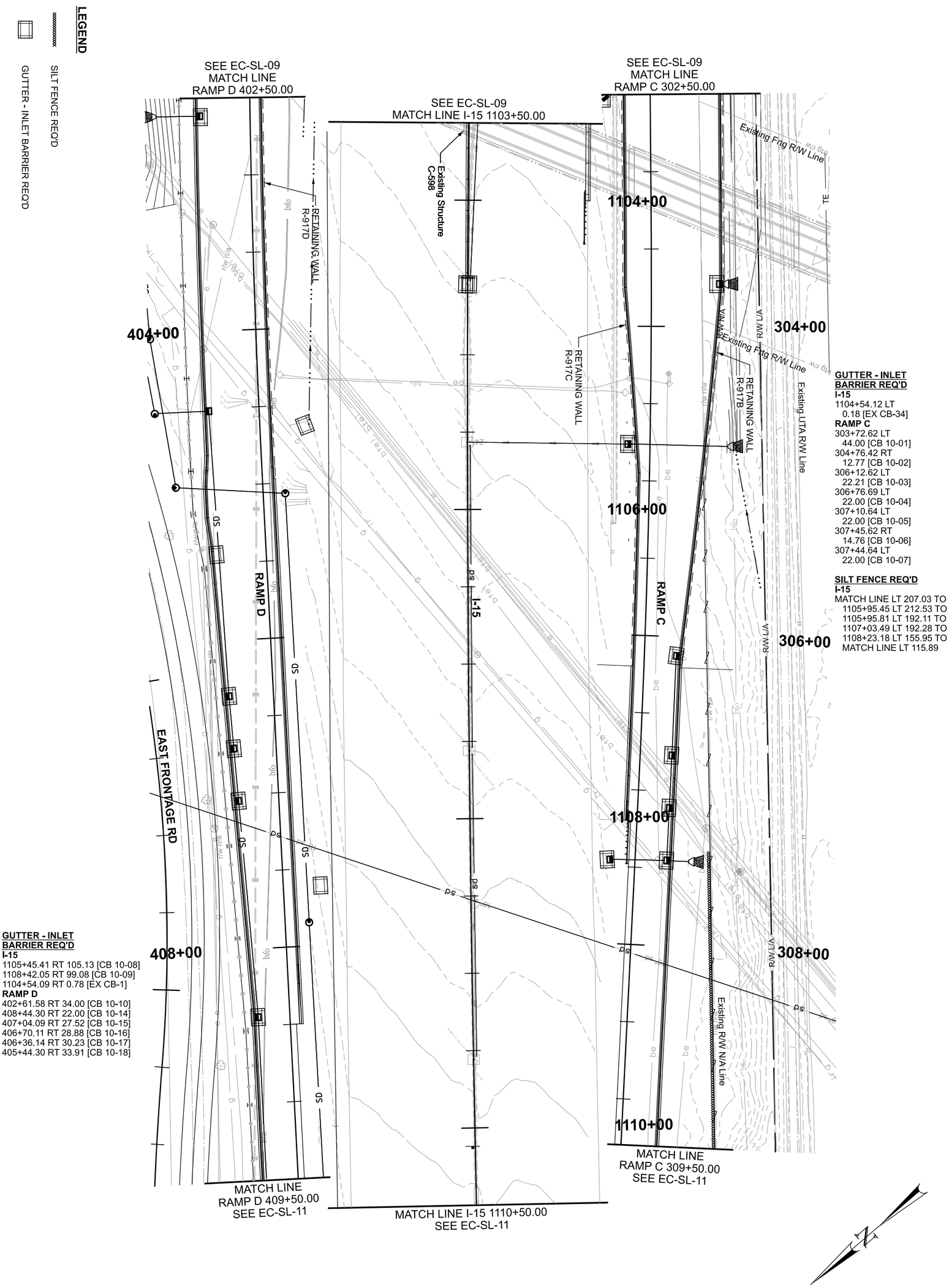
GUTTER - INLET BARRIER REQ'D
I-15
1101+01.99 RT 1.37 [RS CB9-7]
1102+01.20 RT 1.37 [RS CB9-8]
1098+98.56 RT 0.70 [EX CB9-4]
1103+01.47 RT 5.37 [EX CB9-7]
1103+01.50 RT 4.80 [EX CB-33]
RAMP A
113+36.34 RT 34.00 [CB 09-09]
112+16.24 RT 22.22 [CB 09-10]

SILT FENCE REQ'D
I-15
MATCH LINE RT 244.52 TO
1096+52.44 RT 245.01 TO
1097+72.44 RT 257.91 TO
1099+63.78 RT 267.34
NORTH STATION LN
531+89.27 RT 127.10 TO
MATCH LINE RT 120.93

SHEET NO. EC-SL-09 237	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY BOW	NO. DATE APPROVED BY REMARKS
	EROSION CONTROL		PROFESSIONAL ENGINEER 01/11/23 DATE	QC CHECKED BY CMR	

EXHIBIT A

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SHEET NO. EC-SL-10	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION WALL CONSULTANT GROUP			REVISIONS	
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED		DRAWN BY BOW	NO. DATE APPROVED BY	REMARKS
	EROSION CONTROL		PROFESSIONAL ENGINEER	01/11/23 DATE	QC CHECKED BY CMR		

EXHIBIT A

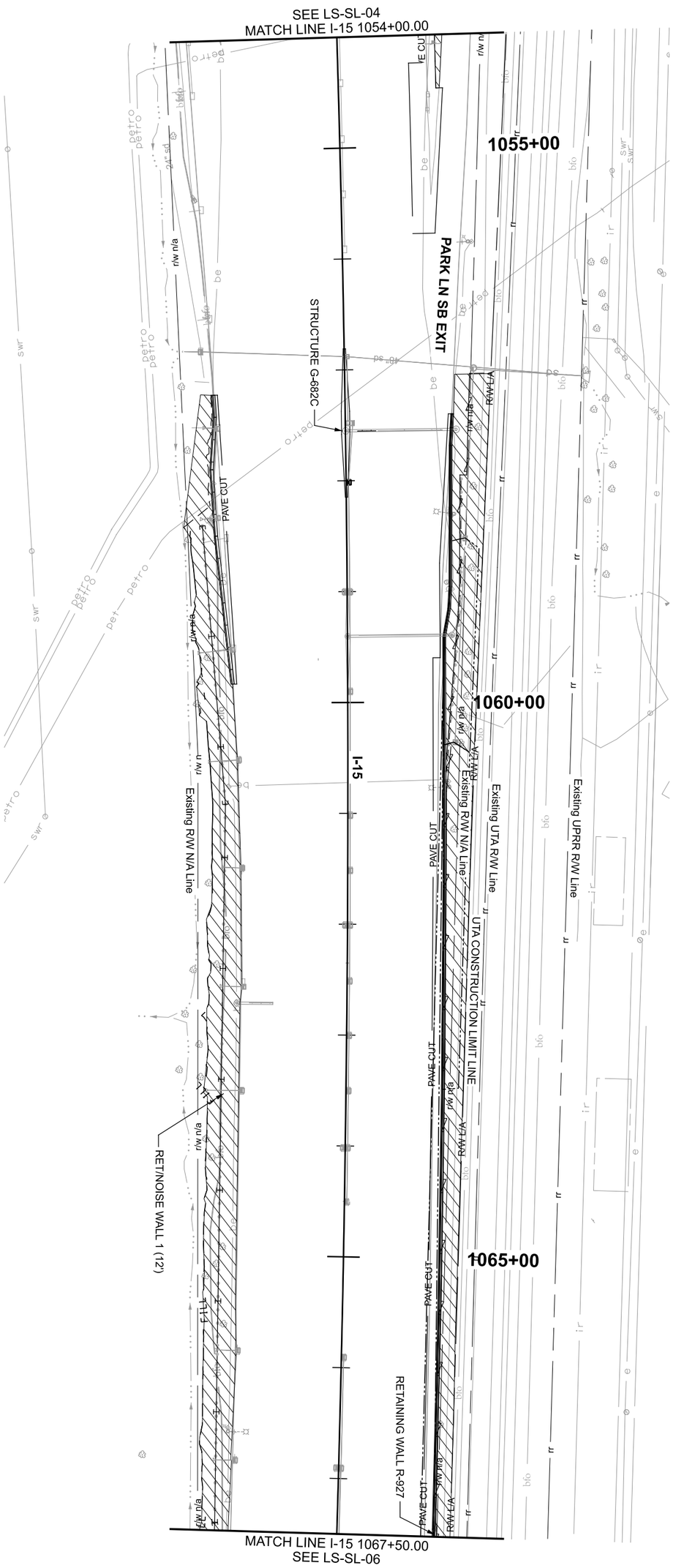
LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1057+21.10 RT TO
1067+50.00 RT

HECP TYPE 1 REQ'D
I-15
1057+21.10 RT TO
1067+50.00 RT

BROADCAST SEED REQ'D
I-15
1057+21.10 RT TO
1067+50.00 RT



STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1054+00.00 LT TO
1054+48.03 LT
1057+05.47 LT TO
1067+50.00 LT

HECP TYPE 1 REQ'D
I-15
1054+00.00 LT TO
1054+48.03 LT
1057+05.47 LT TO
1067+50.00 LT

BROADCAST SEED REQ'D
I-15
1054+00.00 LT TO
1054+48.03 LT
1057+05.47 LT TO
1067+50.00 LT

NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

SHEET NO. LS-SL-05	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS		REVISIONS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY KKH	NO. DATE APPROVED BY REMARKS
	LANDSCAPE		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY ZS	

EXHIBIT A

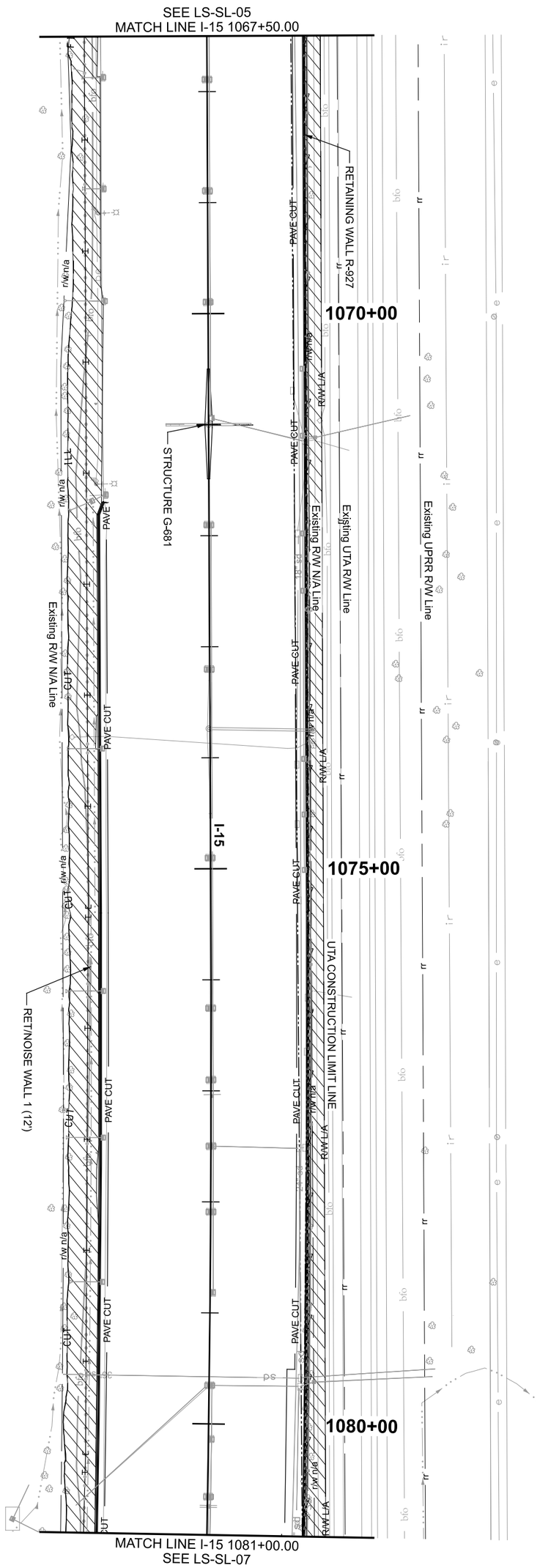
LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1067+50.00 RT TO
1081+00.00 RT

HECP TYPE 1 REQ'D
I-15
1067+50.00 RT TO
1081+00.00 RT

BROADCAST SEED REQ'D
I-15
1067+50.00 RT TO
1081+00.00 RT



STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1067+50.00 LT TO
1081+00.00 LT

HECP TYPE 1 REQ'D
I-15
1067+50.00 LT TO
1081+00.00 LT

BROADCAST SEED REQ'D
I-15
1067+50.00 LT TO
1081+00.00 LT

NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

SHEET NO. LS-SL-06	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED PROFESSIONAL ENGINEER — MM/DD/YY DATE
	LANDSCAPE		DRAWN BY KKH QC CHECKED BY ZS

REVISIONS			
NO.	DATE	APPROVED BY	REMARKS

EXHIBIT A

LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1081+00.00 RT TO
1088+34.12 RT

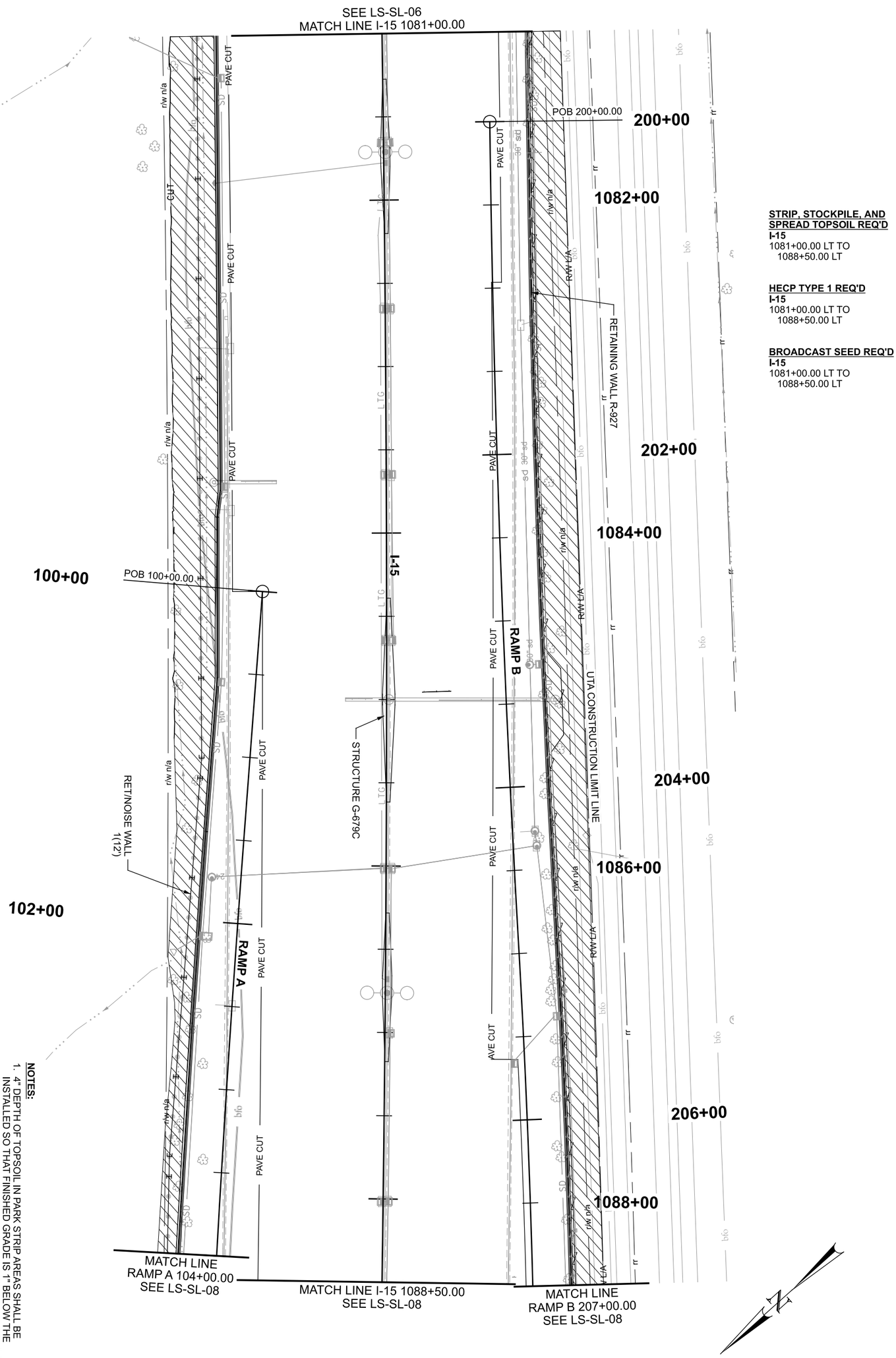
HECP TYPE 1 REQ'D
I-15
1081+00.00 RT TO
1088+34.12 RT

BROADCAST SEED REQ'D
I-15
1081+00.00 RT TO
1088+34.12 RT

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
I-15
1081+00.00 LT TO
1088+50.00 LT

HECP TYPE 1 REQ'D
I-15
1081+00.00 LT TO
1088+50.00 LT

BROADCAST SEED REQ'D
I-15
1081+00.00 LT TO
1088+50.00 LT



NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED, THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

SHEET NO. LS-SL-07	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED ..... PROFESSIONAL ENGINEER — MM/DD/YY DATE
		LANDSCAPE	DRAWN BY KKH QC CHECKED BY ZS

REVISIONS			
NO.	DATE	APPROVED BY	REMARKS

EXHIBIT A

LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
RAMP A
104+00.00 RT TO
111+50.00 RT

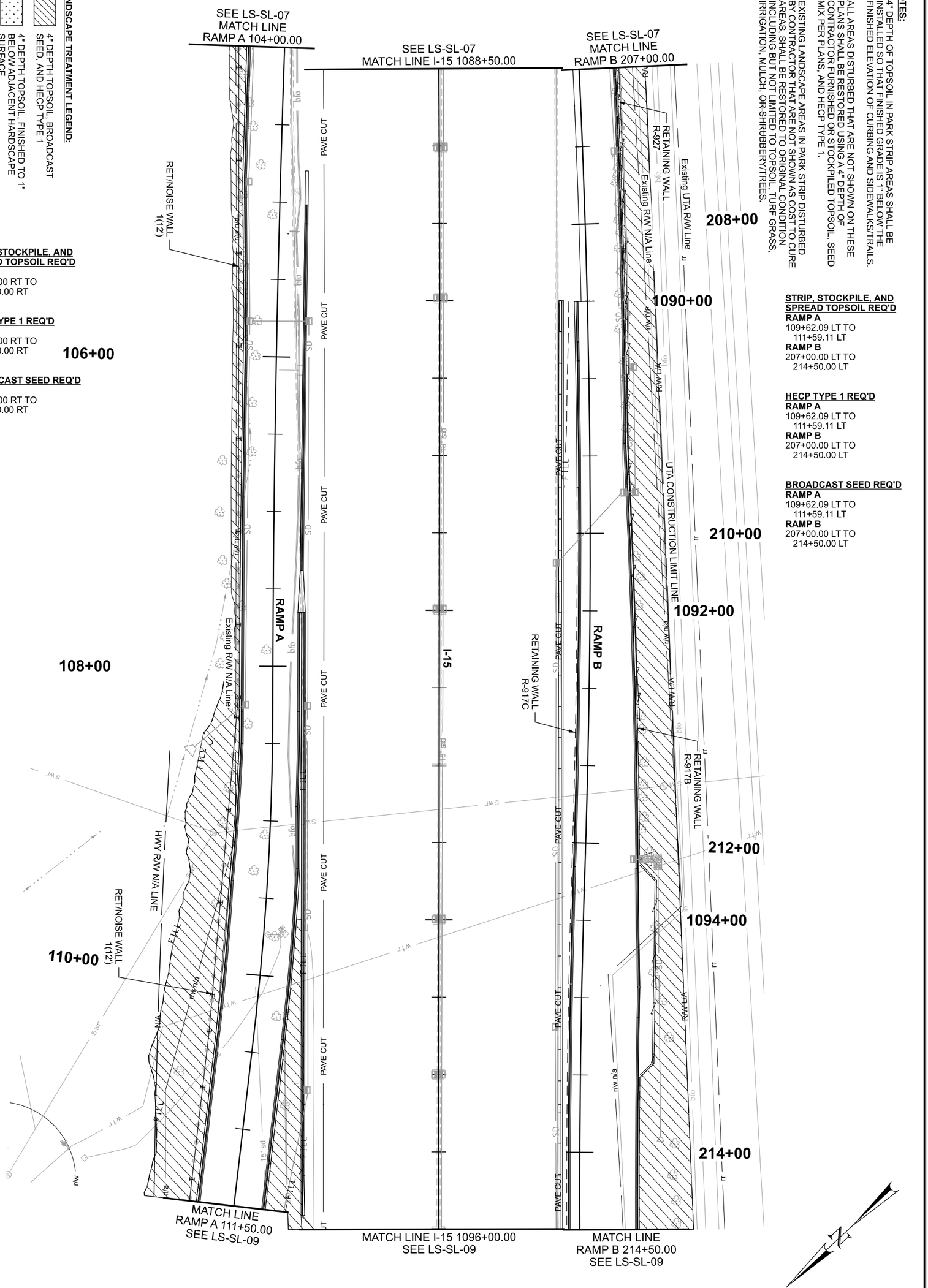
HECP TYPE 1 REQ'D
RAMP A
104+00.00 RT TO
111+50.00 RT

BROADCAST SEED REQ'D
RAMP A
104+00.00 RT TO
111+50.00 RT

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
RAMP A
109+62.09 LT TO
111+59.11 LT
RAMP B
207+00.00 LT TO
214+50.00 LT

HECP TYPE 1 REQ'D
RAMP A
109+62.09 LT TO
111+59.11 LT
RAMP B
207+00.00 LT TO
214+50.00 LT

BROADCAST SEED REQ'D
RAMP A
109+62.09 LT TO
111+59.11 LT
RAMP B
207+00.00 LT TO
214+50.00 LT



SHEET NO. LS-SL-08	PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	UTAH DEPARTMENT OF TRANSPORTATION HORROCKS ENGINEERS			REVISIONS	
	PROJECT NUMBER	S-I15-7(340)325 PIN 15684	APPROVED	DRAWN BY	KKH	NO. DATE APPROVED BY	REMARKS
	LANDSCAPE		PROFESSIONAL ENGINEER MM/DD/YY DATE	QC CHECKED BY	ZS		

EXHIBIT A

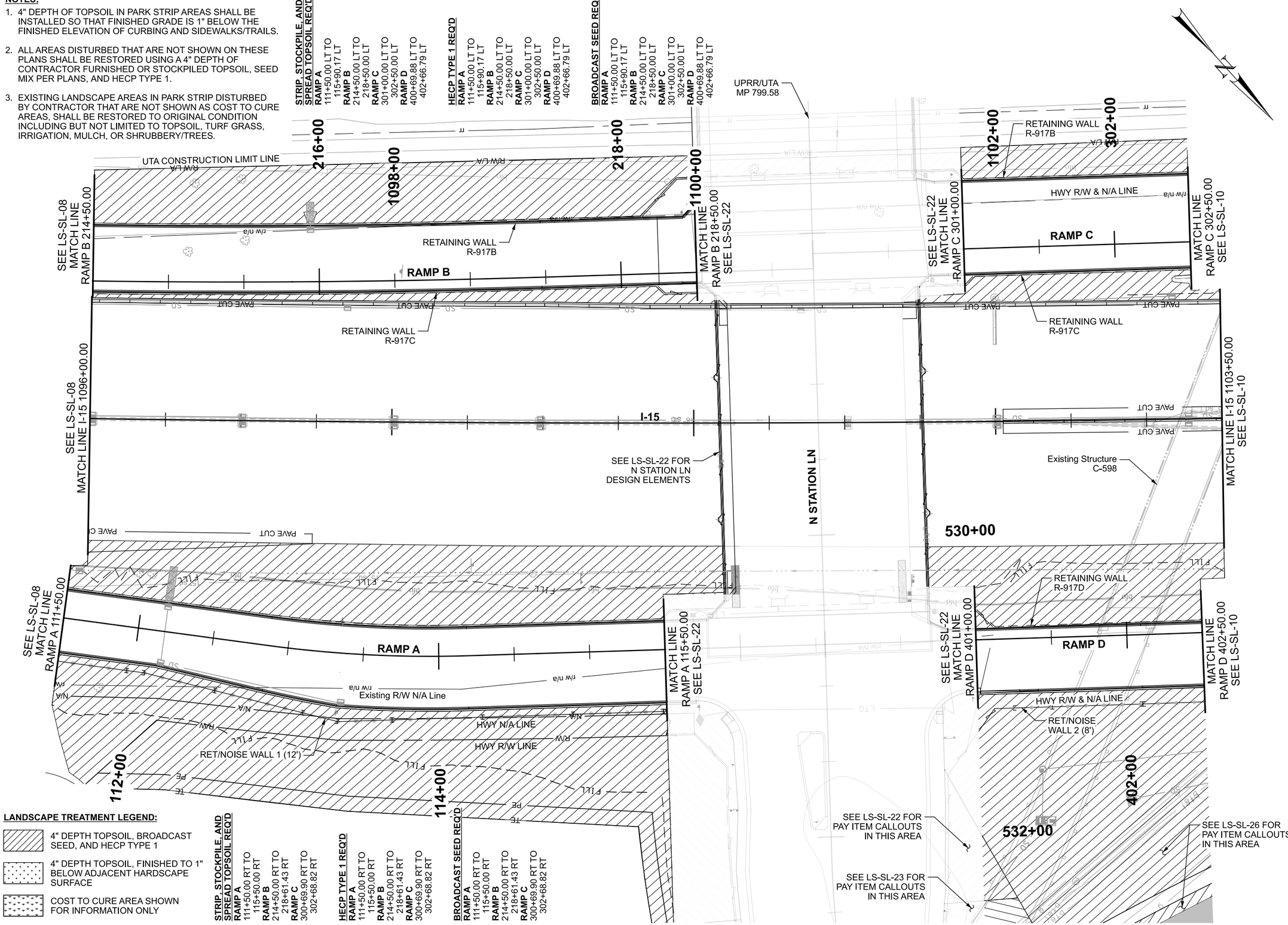
NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
RAMP A 111+50.00 LT TO 115+90.17 LT
RAMP B 214+50.00 LT TO 218+50.00 LT
RAMP C 301+00.00 LT TO 302+50.00 LT
RAMP D 400+69.88 LT TO 402+66.79 LT

HECP TYPE 1 REQ'D
RAMP A 111+50.00 LT TO 115+90.17 LT
RAMP B 214+50.00 LT TO 218+50.00 LT
RAMP C 301+00.00 LT TO 302+50.00 LT
RAMP D 400+69.88 LT TO 402+66.79 LT

BROADCAST SEED REQ'D
RAMP A 111+50.00 LT TO 115+90.17 LT
RAMP B 214+50.00 LT TO 218+50.00 LT
RAMP C 301+00.00 LT TO 302+50.00 LT
RAMP D 400+69.88 LT TO 402+66.79 LT



LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
RAMP A 111+50.00 RT TO 115+50.00 RT
RAMP B 214+50.00 RT TO 218+61.43 RT
RAMP C 300+69.90 RT TO 302+68.82 RT

HECP TYPE 1 REQ'D
RAMP A 111+50.00 RT TO 115+50.00 RT
RAMP B 214+50.00 RT TO 218+61.43 RT
RAMP C 300+69.90 RT TO 302+68.82 RT

BROADCAST SEED REQ'D
RAMP A 111+50.00 RT TO 115+50.00 RT
RAMP B 214+50.00 RT TO 218+61.43 RT
RAMP C 300+69.90 RT TO 302+68.82 RT

NO.	DATE	APPROVED BY	REMARKS

REVISIONS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: ZS
MM/DD/YY
DATE

APPROVED

PROFESSIONAL ENGINEER

PROJECT	I-15; SHEPARD LN INTCHG & PED OVERPASS	PIN	15684
PROJECT NUMBER	S-I15-7(340)325		
	LANDSCAPE		

SHEET NO. LS-SL-09

2/20/2023 8:38:20 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Landscape/15684_LS-SL-09.dgn

EXHIBIT A

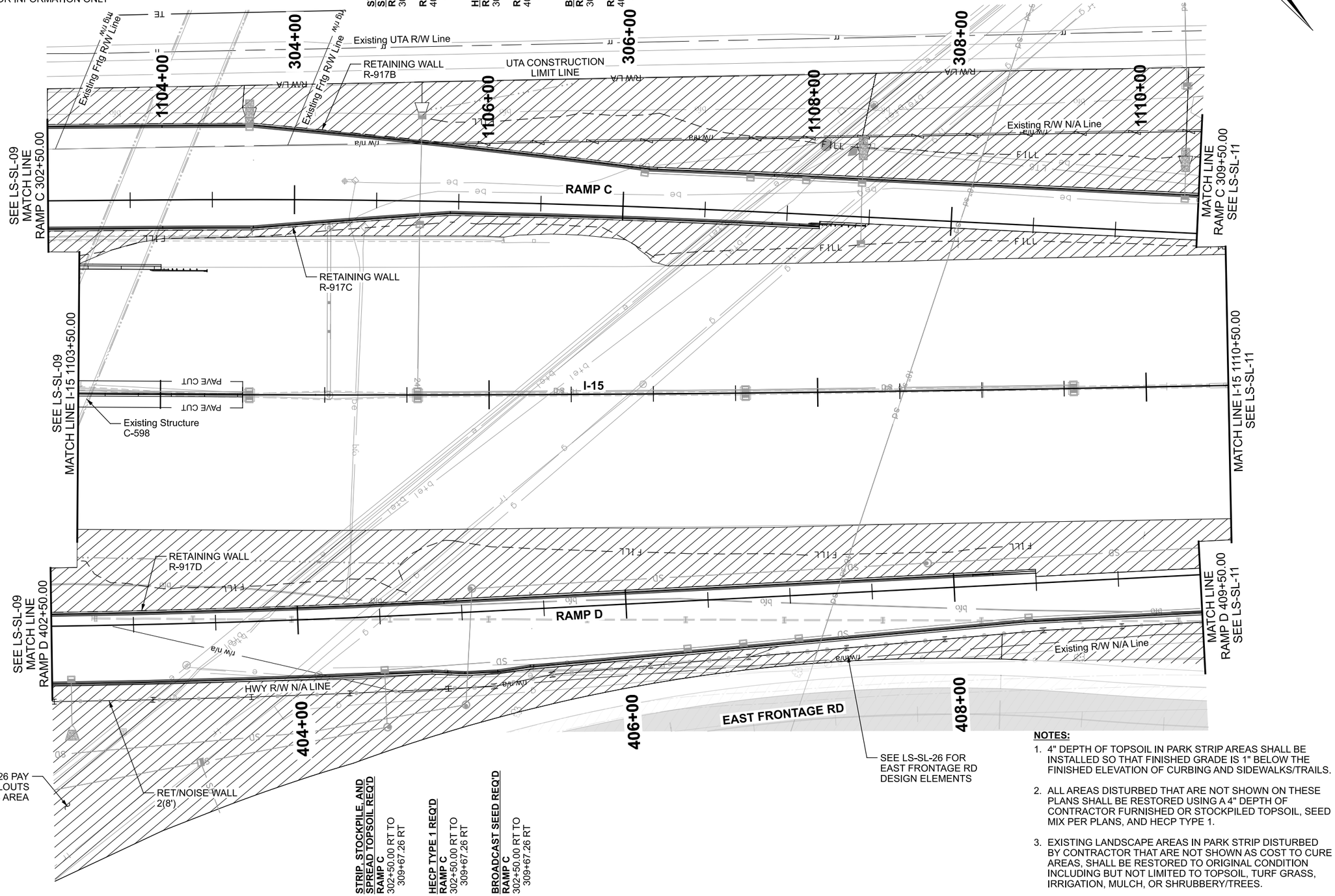
LANDSCAPE TREATMENT LEGEND:

- 4" DEPTH TOPSOIL, BROADCAST SEED, AND HECP TYPE 1
- 4" DEPTH TOPSOIL, FINISHED TO 1" BELOW ADJACENT HARDSCAPE SURFACE
- COST TO CURE AREA SHOWN FOR INFORMATION ONLY

STRIP, STOCKPILE, AND SPREAD TOPSOIL REQ'D
RAMP C
302+50.00 LT TO 309+50.00 LT
RAMP D
402+50.00 LT TO 409+70.04 LT

HECP TYPE 1 REQ'D
RAMP C
302+50.00 LT TO 309+50.00 LT
RAMP D
402+50.00 LT TO 409+70.04 LT

BROADCAST SEED REQ'D
RAMP C
302+50.00 LT TO 309+50.00 LT
RAMP D
402+50.00 LT TO 409+70.04 LT



NOTES:

1. 4" DEPTH OF TOPSOIL IN PARK STRIP AREAS SHALL BE INSTALLED SO THAT FINISHED GRADE IS 1" BELOW THE FINISHED ELEVATION OF CURBING AND SIDEWALKS/TRAILS.
2. ALL AREAS DISTURBED THAT ARE NOT SHOWN ON THESE PLANS SHALL BE RESTORED USING A 4" DEPTH OF CONTRACTOR FURNISHED OR STOCKPILED TOPSOIL, SEED MIX PER PLANS, AND HECP TYPE 1.
3. EXISTING LANDSCAPE AREAS IN PARK STRIP DISTURBED BY CONTRACTOR THAT ARE NOT SHOWN AS COST TO CURE AREAS, SHALL BE RESTORED TO ORIGINAL CONDITION INCLUDING BUT NOT LIMITED TO TOPSOIL, TURF GRASS, IRRIGATION, MULCH, OR SHRUBBERY/TREES.

REVISIONS

NO.	DATE	APPROVED BY	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
HORROCKS ENGINEERS

DRAWN BY: KKH
QC CHECKED BY: ZS

APPROVED: _____ MM/DD/YY
PROFESSIONAL ENGINEER DATE

PROJECT: I-15; SHEPARD LN INTCHG & PED OVERPASS
PROJECT NUMBER: S-I15-7(340)325
PIN: 15684
LANDSCAPE

SHEET NO. LS-SL-10

2/20/2023 8:37:01 AM pw://horrocks-pw.bentley.com:horrocks-pw-01/Documents/Projects/2021/UT-3019-2103 I-15, Shepard Lane Int-Precon, Engineer/15684/Sheet_Files/Landscape/15684_LS-SL-10.dgn

EXHIBIT B

PIN: 15684 PROJECT NAME: SHEPARD LANE INTERCHANGE - UTA DOUBLE TRACKING BETTERMENT

Cost Estimate - Concept Level

Prepared By: Horrocks Engineers **Date** 3/8/2023

Approximate Route Reference Mile Post (BEGIN) =		(END) =	
Project Length =		miles	ft
Current FY Year (July-June) =	2022		
Assumed Construction FY Year =	2023		
Construction Items Inflation Factor =	1.09	1 yrs for inflation	
Assumed Yearly Inflation for Engineering Services (PE and CE) (%/yr) =	3.0%		
Assumed Yearly Inflation for Right of Way (%/yr) =	3.0%		
Contingency (% of Construction) =	15.0%		
Preliminary Engineering (% of Construction + Incentives) =			
Construction Engineering (% of Construction + Incentives) =	5.0%		

Sheet1

Item #	Item	Quantity	Units	Price	Cost	Remarks
Roadway						
	Mobilization	1	Lump	$31,008.23	$31,008.23	
	Survey and Layout	1	Lump	$16,802.67	$16,802.67	
	Clearing and Grubbing	3.0	Acre	$1,250.00	$3,750.00	
	Guideway Excavation	1,102	Cu Yd	$62.00	$68,324.00	
	Guideway Borrow	7,363	Cu Yd	$42.00	$309,246.00	
	Subgrade Stabilization Type IB (Contingency)	250	Cu Yd	$215.00	$53,750.00	
	Subballast Base Course	1,555	Cu Yd	$103.00	$160,165.00	
				Roadway Subtotal	**$643,045.90**	
Drainage						
	Concrete Drainage Structure 5 ft to 7 ft Deep - CB 9	4	Each	$10,250.00	$41,000.00	
	Drainage Pipe - 18 inch, Smooth, Leak-Resistant	58	ft	$410.00	$23,780.00	
	Precast Manhole - CB11	2	Each	$11,875.00	$23,750.00	
	Pipe connection collar	1	Each	$750.00	$750.00	
	Circular End Section 18 inch	1	Each	$1,000.00	$1,000.00	
	Remove Catch Basin	4	Each	$1,000.00	$4,000.00	
	Remove Pipe	62	ft	$100.00	$6,200.00	
				Drainage Subtotal	**$100,480.00**	
Structures						
	Precast Panels (R-927)	14,858	Sq ft	$35.00	$520,030.00	
	Precast Posts (R-927)	6,810	ft	$70.00	$476,700.00	
	Post Holes (R-927)	4,823	ft	$200.00	$964,600.00	
				Structures Subtotal	**$1,961,330.00**	
Utilities						
	Fiber Optic Duct Bank, 1-D, Installed in Trench	5,950	ft	$35.00	$208,250.00	Cable by UTA
	Fiber Optic Duct Bank, 1-D, Installed by Bore	500	ft	$55.00	$27,500.00	Cable by UTA
	Type II Pull Box	4	Each	$1,875.00	$7,500.00	Cable by UTA
				Utilities Subtotal	**$243,250.00**	
				Subtotal	$2,948,105.90	
				Contingency (10%)	$294,810.59	
				Construction Subtotal	**$3,242,916.49**	
P.E. Construction Support				**P.E. Construction Support Subtotal**	**$39,133.28**	
C.E. Cost				**C.E. Subtotal**	**$147,405.30**	5%
Right of Way				**Right of Way Subtotal**	**$0**	
	Total Take (w/Residential Relocation)		*Each*	*$0.00*		
	Partial Take		*sq ft*	*$15.00*		
	Demolition of Property		*Each*	*$10,000.00*		
Utility Relocations		**0.00%**		**Utilities Subtotal**	**$0**	
Contractor Incentives		**0.00%**		**Incentives Subtotal**	**$0**	
Aesthetics		**0.00%**		**Aesthetics Subtotal**	**$0**	
Change Order Contingency		**6.00%**		**CO Contingency Subtotal**	**$176,886.35**	
Miscellaneous				**Miscellaneous Subtotal**	**$0**	
				BETTERMENT AMOUNT	**$3,606,341.42**	

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO:	Board of Trustees
THROUGH:	Jay Fox, Executive Director
FROM:	Viola Miller, Chief Financial Officer
PRESENTER(S):	Kensey Kunkel, Manager Business Dev. And Sales

TITLE:

Sponsored Fare Agreement: Trip Reduction Program/Free-Fare Days - Amendment Two (Division of Air Quality)

AGENDA ITEM TYPE:
Service or Fare Approval

RECOMMENDATION:
Approve and authorize the Executive Director to execute Amendment Two (2) with the Division of Air Quality (the Division) extending the existing agreement for one year.

BACKGROUND:
In January 2020, House Bill 353, Reduction of Single Occupancy Vehicle Trips Pilot Program, was approved by the Utah Legislature. The bill created a pilot program offering free fares for public transit during select bad air days. With the Board of Trustee's approval, UTA partnered with the Division to fund free-fare days with funds appropriated in HB353.

On June 23, 2021, the UTA Board of Trustees approved and authorized the Executive Director to execute a contract a(21-F0199) with the Division in the amount of $492,000 to provide free-fare days on UTA Services on designated bad air quality days. On June 22, 2022, the board approved and authorized the Executive Director to execute Amendment One (1) (21-F0199-2), which extended the agreement for one more year through June 30, 2023. The amount billable per day is $82,000 with a maximum allowable total reimbursement of $492,000 from the Division to UTA. Funding received is used to cover forgone fare revenue. Any administrative or operating costs that are incurred with this program are absorbed by UTA. To date, UTA has utilized four (4) free fare days and the Division support for Free Fare February in 2022 for a total of $367,314 in revenue reimbursement. Both UTA and the Division desire to extend the current agreement for one additional year through June 30, 2024 to utilize the remaining funds ($124,686).

DISCUSSION:
This agreement amendment will extend the current agreement through June 30, 2024. All other terms of the contract will remain the same.

For clarification purposes, the Division considered contract 21-F0199 as Amendment One (1) and any subsequent amendments will be considered Amendment Two (2) and Amendment Three (3) for the Division. UTA considered contract 21-F0199 as a new contract, and any subsequent amendments will be considered Amendment One (1) and Amendment (2) for UTA.

CONTRACT SUMMARY:

Contractor Name:	Department of Air Quality
Contract Number:	21-F0199-2
Base Contract Effective Dates:	July 1, 2021 through June 30, 2023
Extended Contract Dates:	July 1, 2023 through June 30, 2024
Existing Contract Value:	$492,000
Amendment Amount:	NA
New/Total Contract Value:	$492,000 See Notes in Fiscal Impact
Procurement Method:	NA
Budget Authority:	NA

ALTERNATIVES:
Not providing Free Fare Days could result in higher motor vehicle emissions contributing to inversion and in not being compliant with House Bill 353

FISCAL IMPACT:
Up to $124,686 in revenue reimbursement for the remainder of the contract term. A total of $367,314 of the total contract value of $492,000 has been spent to sponsor four (4) free fare days since the contract's inception.

ATTACHMENTS:
Amendment 2

DocuSign Envelope ID: A09761C4-2B94-4063-A8CF-8B0D1B40E124

UTA Contract Number:
21-0199-A2

STATE OF UTAH
CONTRACT AMENDMENT

AMENDMENT # 3 To **CONTRACT** # 201392

TO BE ATTACHED TO AND MADE A PART OF the above numbered contract by and between the State of Utah, Division of Air Quality referred to as State Entity and, Utah Transit Authority, referred to as Contractor.

THE PARTIES AGREE TO AMEND THE CONTRACT AS FOLLOWS:

1. **Contract period:**

01/01/2020	(original starting date)
06/30/2023	(current ending date)
06/30/2024	**new ending date**

2. **Contract amount:**

$492,000	(current contract amount)
$0	(amendment amount)
$492,000	**new contract amount** add current amount to amendment amount

*Contract remaining balance is $124,686.05 as of 05-31-2023.

3. **Other changes:** (attach other sheets if necessary):

4. **Effective Date of Amendment**: 06/28/2023

All other conditions and terms in the original contract and previous amendments remain the same.

IN WITNESS WHEREOF, the parties sign and cause the amendment to be executed.

CONTRACTOR

Contractor's signature Date

Type or Print Name and Title

Contractor's signature Date

Type or Print Name and Title

DocuSigned by:
Mike Bell
70E33A415BA44F6...Form

STATE

Agency's signature Date

Director, Division of Finance Date

Glade Sowards	801-536-4020		gladesowards@utah.gov
Agency Contact Person	Telephone Number	Fax Number	Email

(Revision 04 October 2018)

669 West 200 South
Salt Lake City, UT 84101

Utah Transit Authority

MEETING MEMO

Board of Trustees **Date:** 6/14/2023

TO: Board of Trustees
THROUGH: Jay Fox, Executive Director
FROM: Jay Fox, Executive Director
PRESENTER(S): Jeff Acerson, Trustee

TITLE:

Strategy Session to Discuss Collective Bargaining

AGENDA ITEM TYPE:
Closed Session

RECOMMENDATION:
Approve moving to closed session for discussion of collective bargaining.

BACKGROUND:
Utah Open and Public Meetings Act allows for the Board of Trustees to meet in a session closed to the public for various specific purposes.

DISCUSSION:
The purpose for this closed session is:

- Strategy session to discuss collective bargaining