



WAUKESHA COUNTY  
DEPARTMENT OF PUBLIC WORKS

# CTH YY Pilgrim Road Underwood Creek Structure

Project ID 18-2782(16)

## Meeting Purpose

The intent of the meeting is to be informative. We are here to discuss the proposed project with you, answer questions, and listen to your comments, concerns and/or suggestions. This meeting will be an open house format. Please review handouts and exhibits at your leisure.

## Project Information

Waukesha County is developing plans for the replacement of the CTH YY (Pilgrim Rd) Underwood Creek Structure. The purpose and need of this spot improvement project is to replace the roadway bridge structure in poor condition and address retaining walls in poor condition.

The roadway, bridge structure and retaining walls were originally built and maintained by the City of Brookfield. Jurisdiction of the structures and roadway was transferred to Waukesha County in 2006. This project is being completed with County and State (Local Road Improvement Program) funds.

The CTH YY (Pilgrim Rd) Underwood Creek structure was previously widened to the current substandard width. The bridge was repaired in 2004 but continues to deteriorate. This structure is considered to be in poor condition, replacement is recommended.

## Roadway

CTH YY (Pilgrim Rd) will remain a 2-lane roadway facility with this project. Waukesha County proposes to reconstruct CTH YY (Pilgrim Rd) with 2–12-foot lanes and 10-foot shoulders.

While CTH YY (Pilgrim Rd) will remain a 2-lane facility with this project, it has been identified in the Southeastern Wisconsin Regional Planning Commission's long-range plans as a future 4-lane facility corridor. Therefore, the new Underwood Creek structure design will accommodate a future roadway expansion. A 4-lane expansion of CTH YY (Pilgrim Rd) is not included in the County's 5-Year Capital Plan but expected in the 75-year life expectancy of a new box culvert.

## Underwood Creek

The proposed project will relocate Underwood Creek from the existing east roadside into Wirth Park from the existing walled channel parallel to CTH YY Pilgrim Road. Moving approximately 492 lineal feet of Underwood Creek will allow for a meandering naturalized stream bed.

Waukesha County has consulted with Wisconsin DNR fisheries and waterway biologists to design a new channel that creates a naturalized stream geometry adding a meandering stream alignment with sloped stream banks. Eliminating the straight walled side slope channel segment of Underwood Creek that is currently in the highway right of way. The sloped creek banks create a better aquatic life habitat for amphibians, mammals and other species.

## CTH YY Pilgrim Road

A new box culvert structure is planned north of the existing bridge. Construction of the box culvert and removal of the existing bridge will require a full road closure. A private driveway located between the new and old structures will require that the bridge stay in use until access can be provided across the new box culvert.

## Wirth Park

The main entrance to Wirth Park will be realigned with Esser Court to reduce roadway turning conflict points. During construction access to the park will be maintained when CTH YY Pilgrim Road is closed. Some operations will require flagging to make the roadway improvements.



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DEPARTMENT OF PUBLIC WORKS

# CTH YY Pilgrim Road Underwood Creek Structure

Project ID 18-2782(16)

## Pedestrian Bridge

Relocation of the Creek will require relocating the existing pedestrian bridge. The existing bridge will be relocated to the south by placing the existing steel truss on new concrete abutments.

## Wirth Park Tot Lot

Relocation of the Creek will require relocating the existing Tot Lot parking lot and access road. The existing parking lot will be relocated to the west. A new access road will be built connecting the parking lot to the main Wirth Park entrance road. Access from the parking lot to CTH YY Pilgrim Road will be removed, all access to the parking lot shall be from the main entrance road.

## Construction Staging / Detour Routes

Access will be maintained to properties within the work zone during construction for the project. However, since this is a structure replacement project, CTH YY (Pilgrim Rd) will be closed to all other through traffic.

The project will have a posted detour route during construction. Coordination will begin in the near future with WisDOT and City of Brookfield officials for use of their roadways to detour traffic. Coordination will also take place concerning the timing of construction and other projects in the area.

## Real Estate

Right-of-way acquisition, temporary limited easements (TLEs), and permanent limited easements (PLEs) are anticipated for this project. Land acquisition will be performed by Waukesha County and is anticipated to begin in Late Summer 2023.

## Project Schedule

Final plans for the project are anticipated to be submitted in Summer 2023 with construction taking place in Fall 2023 thru summer 2024, pending coordination with other area projects. Utility relocations are expected to lower underground facilities for the new creek channel and move utility poles in the Summer 2023.

## Public Input / Comments

We encourage you to talk to the project representatives and ask questions. Comment sheets for your written comments and input regarding the proposed project. Please mail any written comments about the project before May 3, 2023, or leave them in the comment box tonight. You can also email your comments to the contacts listed below.

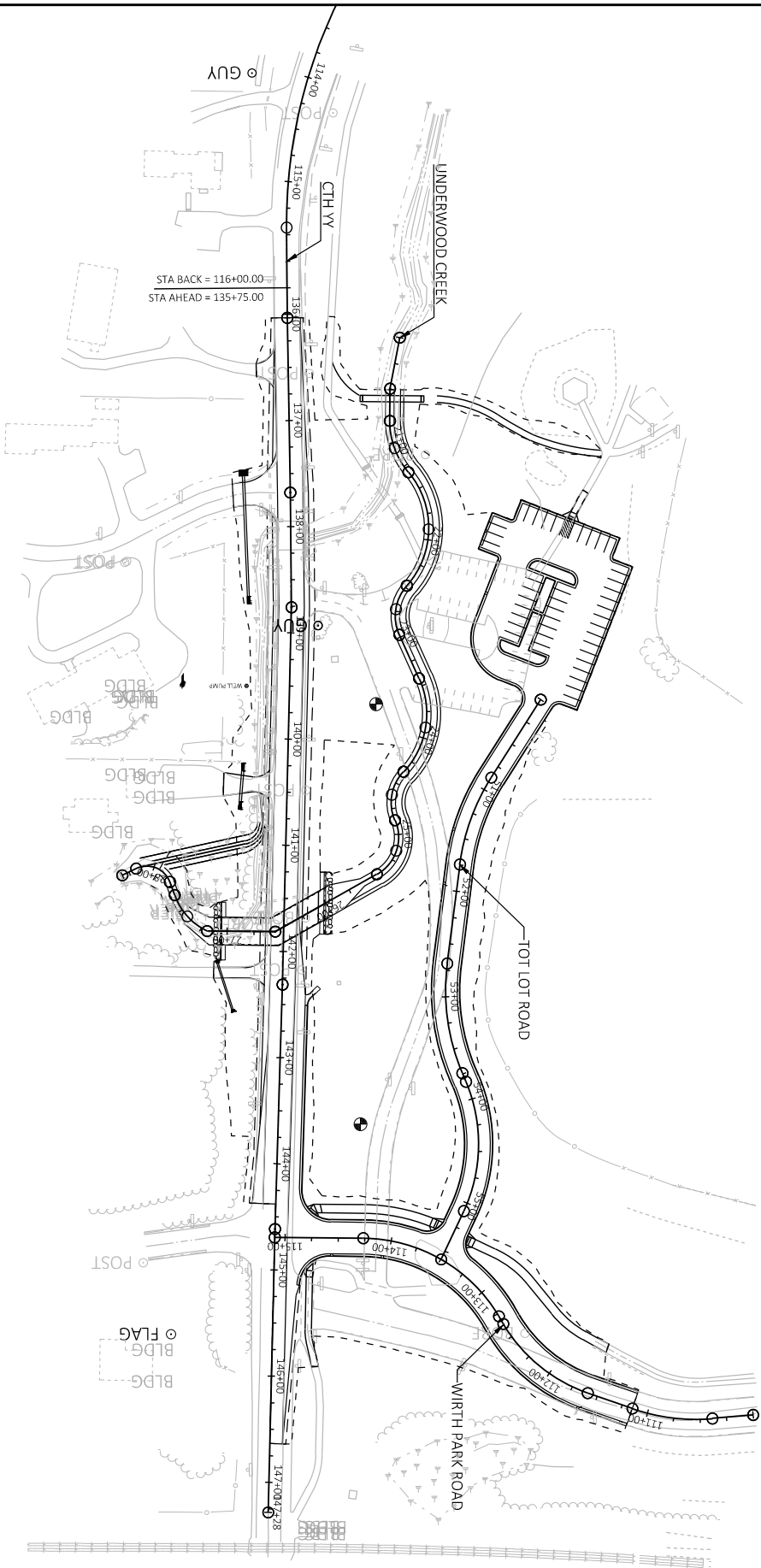
Your comments assist us in developing a project that will serve the needs of the traveling public as well as the needs of the local community. Your input is welcome and appreciated throughout the design process.

For more information, please contact:

Kevin Yanny, PE; Waukesha County DPW  
Project Manager, 515 W Moreland Blvd, AC220,  
Waukesha, WI 53188; Ph: 262.548.7740;  
[KYanny@waukeshacounty.gov](mailto:KYanny@waukeshacounty.gov)

Brenda Schoenfeld, PE; Ayres Associates –  
Consultant Project Manager, 20975 Swenson Drive,  
Suite 200 Waukesha, WI 53186; Ph: 262.522.4921  
[SchoenfeldB@AyresAssociates.com](mailto:SchoenfeldB@AyresAssociates.com)

Selected Design April 2023



PROJECT NO: 18-2782(16)

HWY: CTH YV

COUNTY: WAUKESHA

PROJECT OVERVIEW

SHEET

E

FILE NAME: I:\24\062830 CTH YV UNDERWOOD CREEK\CD SHEETS\LAYOUT\02001.P0.DWG  
LAYOUT NAME: 01

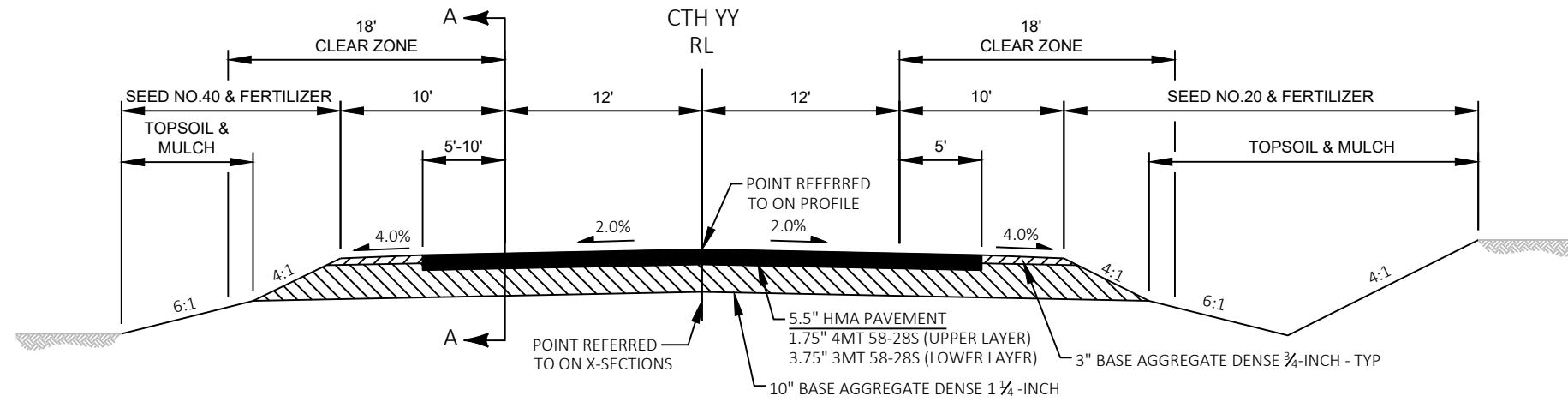
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PLOT BY: JOHNSON, ZAGHARY

PLOT NAME:

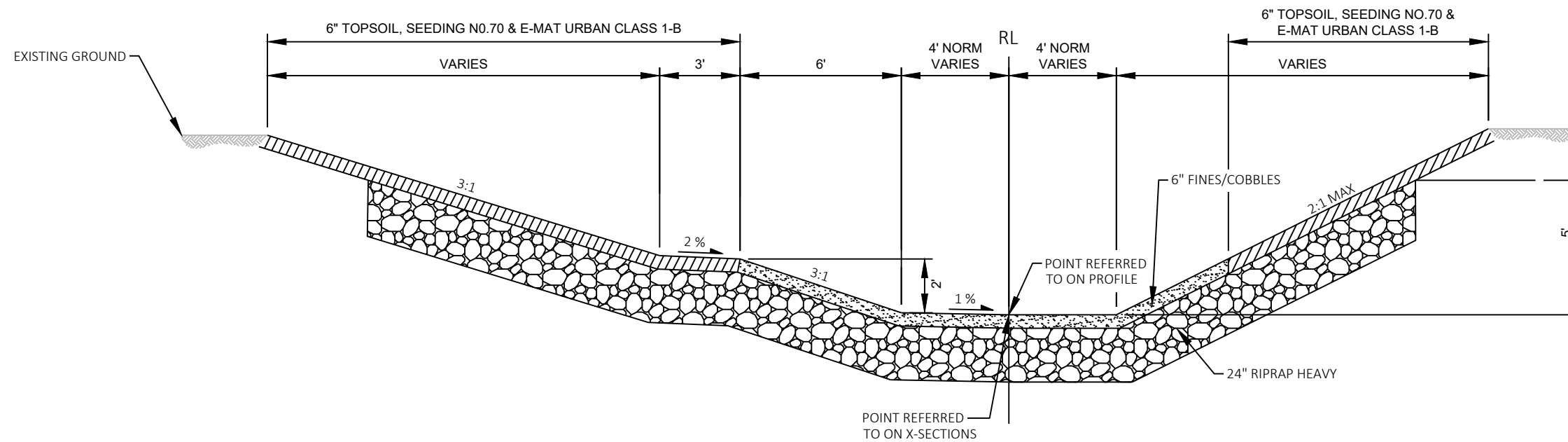
PLOT SCALE: 1/4" = 100 FT

VISION/CADD SHEET #2



**FINISHED TYPICAL SECTION - CTH YY**  
 STA 136+03.37 - STA 146+67.00

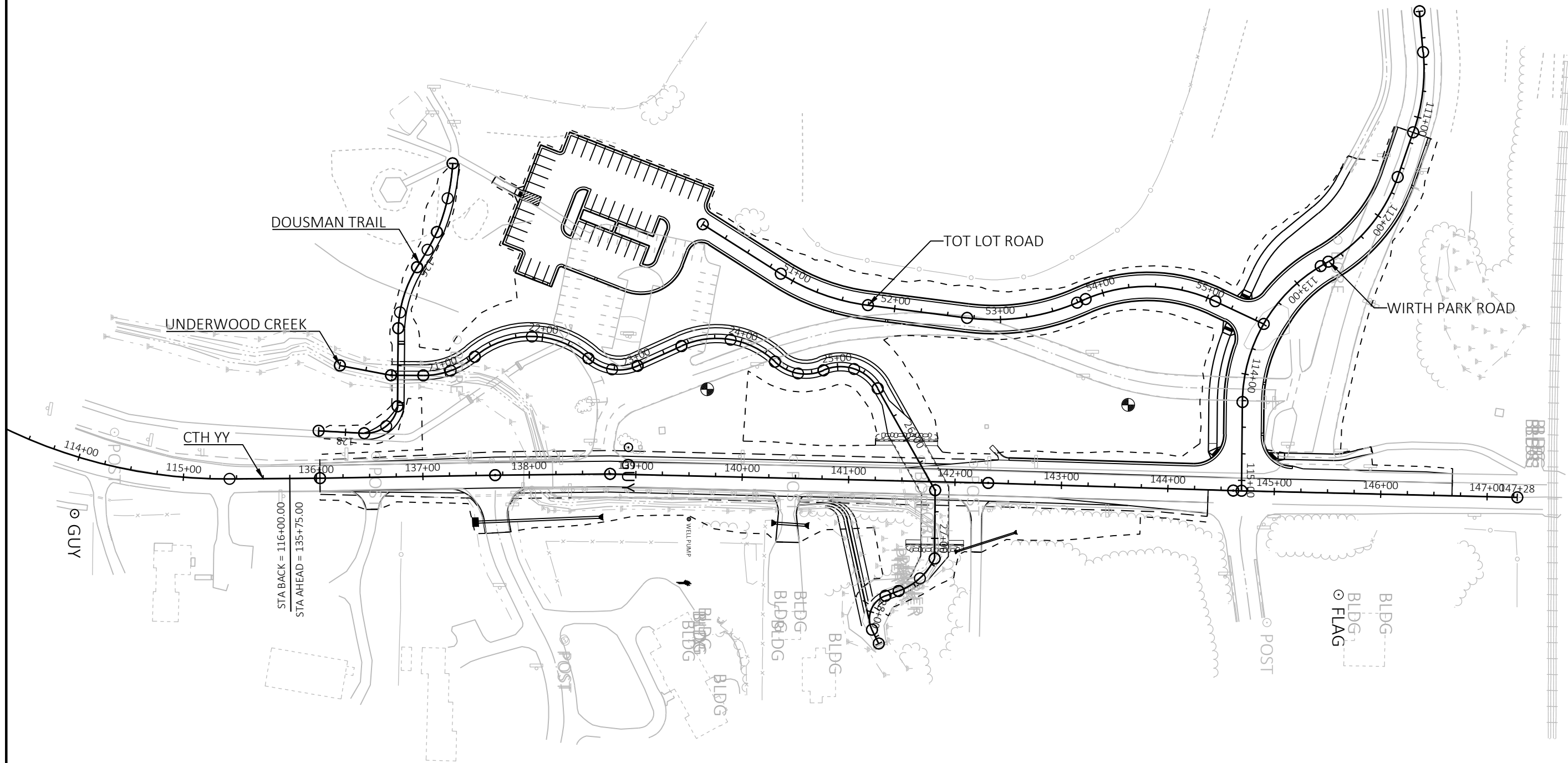
**Selected Design April 2023**  
**As displayed at PIM #2, April 26, 2023**



**FINISHED TYPICAL SECTION - UNDERWOOD CREEK**  
 STA 20+84.94 - STA 27+90.80

# Selected Design April 2023

As displayed at PIM #2, April 26, 2023



PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	PROJECT OVERVIEW	SHEET	<b>E</b>
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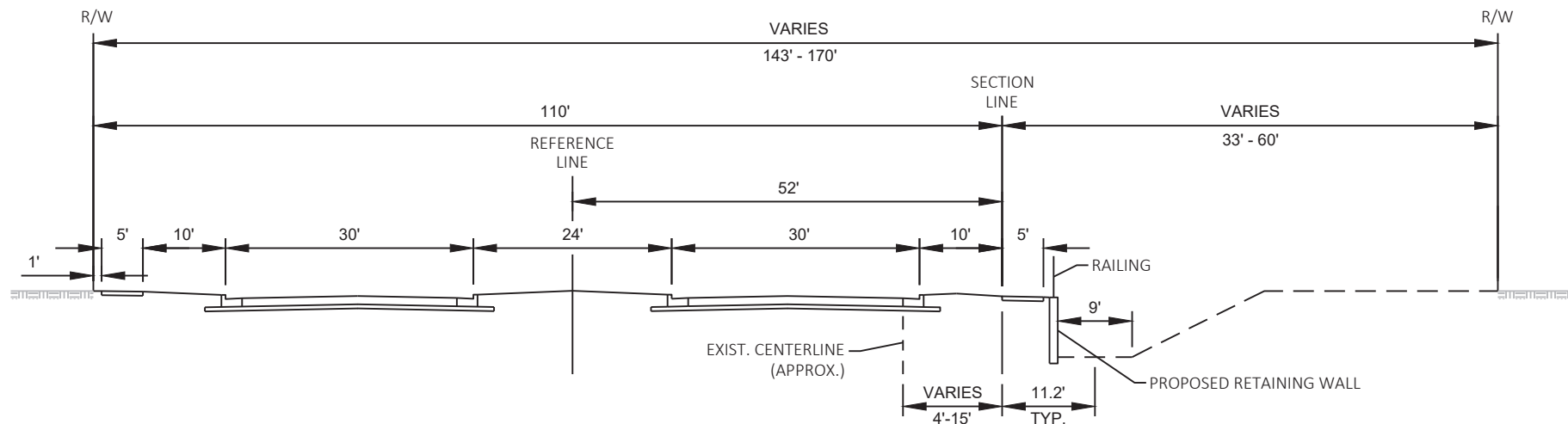


**WAUKESHA COUNTY**  
**DEPARTMENT OF PUBLIC WORKS**

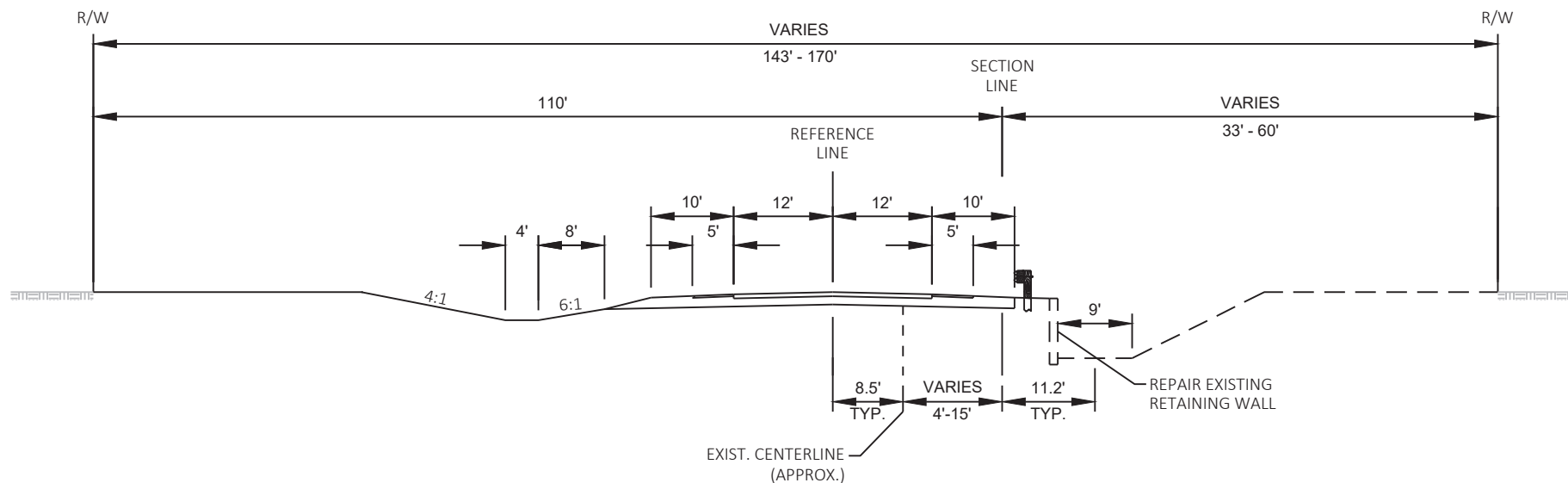
# **Alternative Exhibits**

**Project ID 18-2782(16)**  
**CTH YY (Pilgrim Rd) – Underwood Creek Structure**  
**Waukesha County**

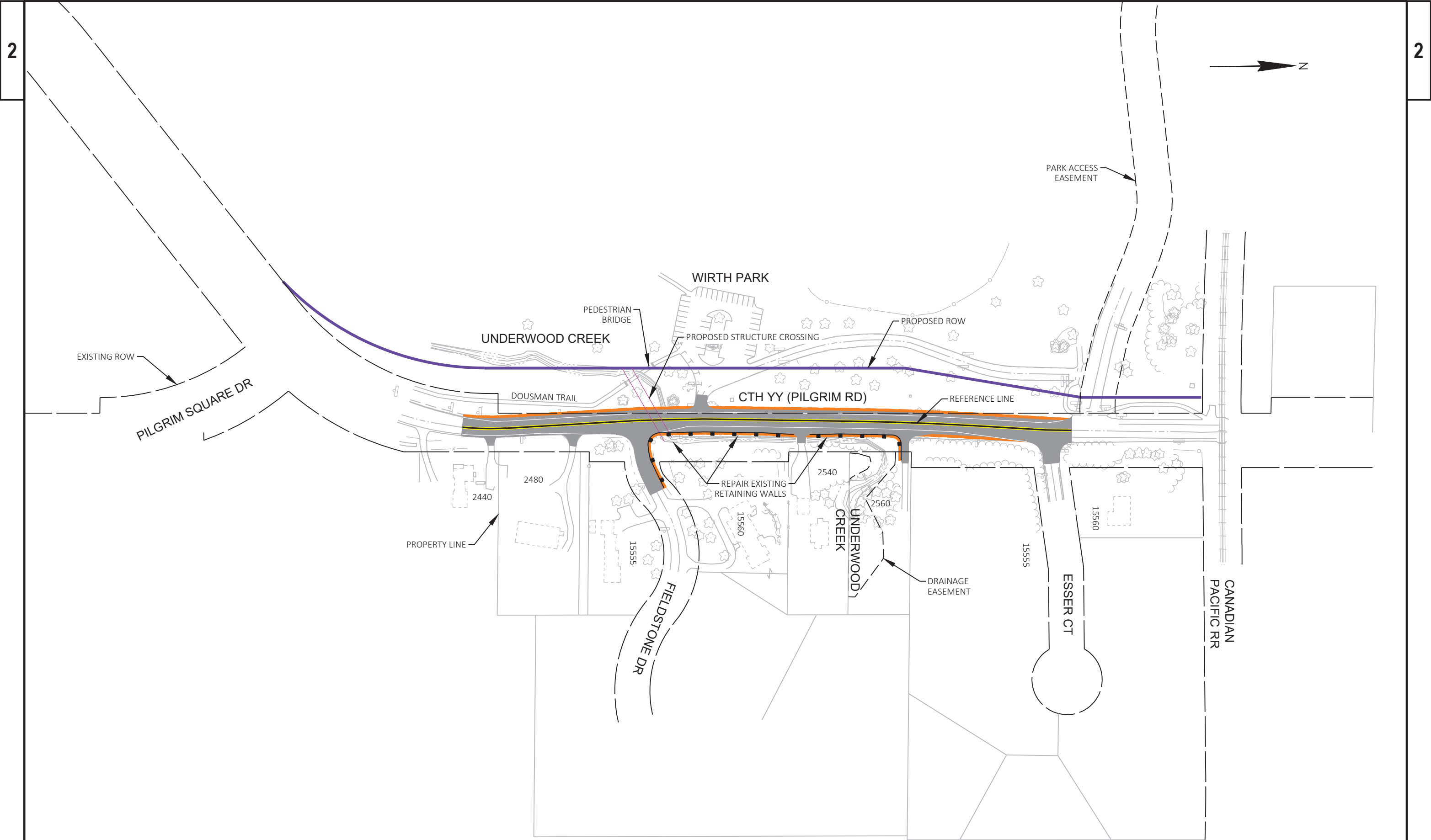
July 2 2021



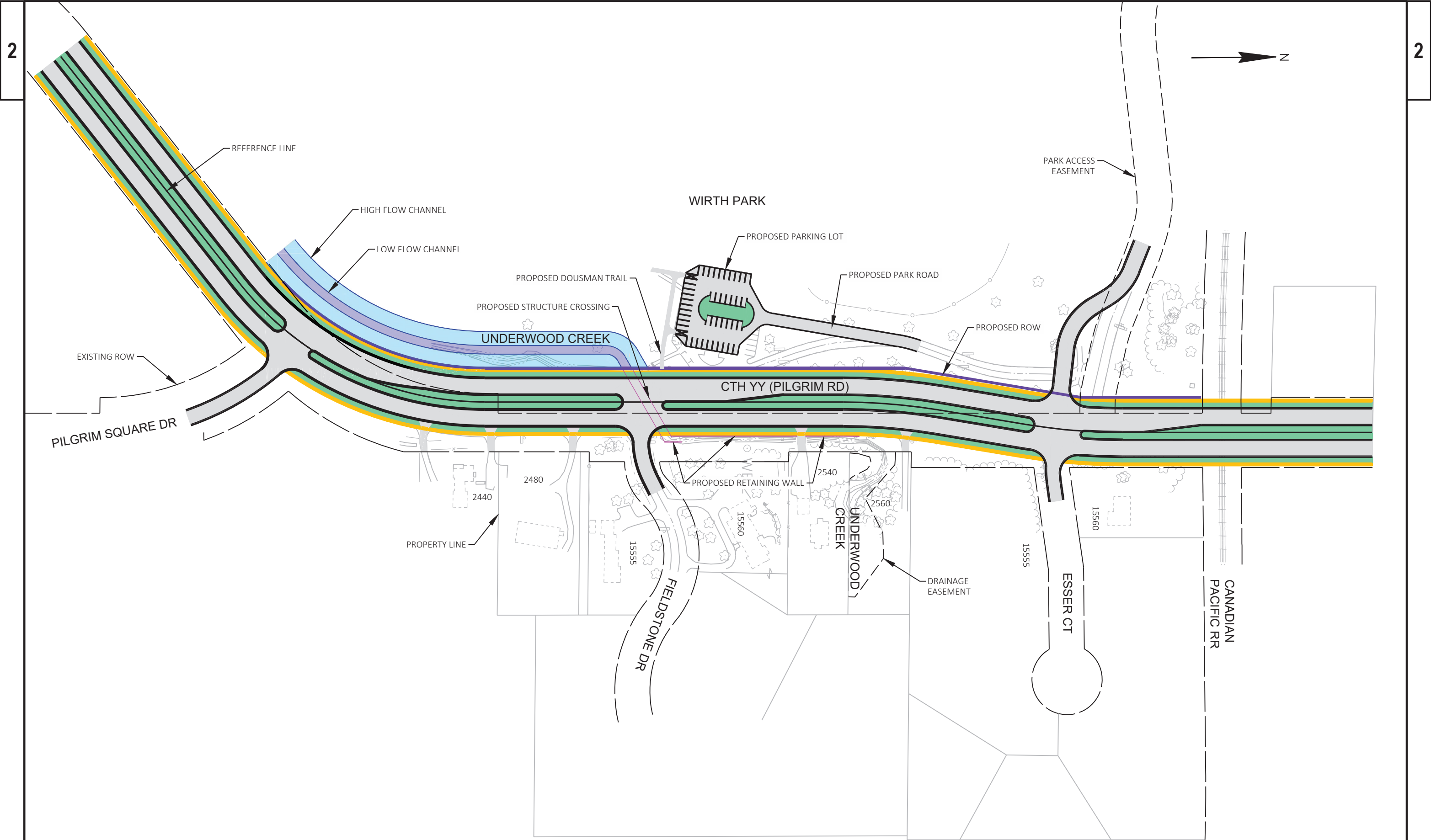
UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST)  
4-LANE FACILITY



UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST)  
2-LANE FACILITY





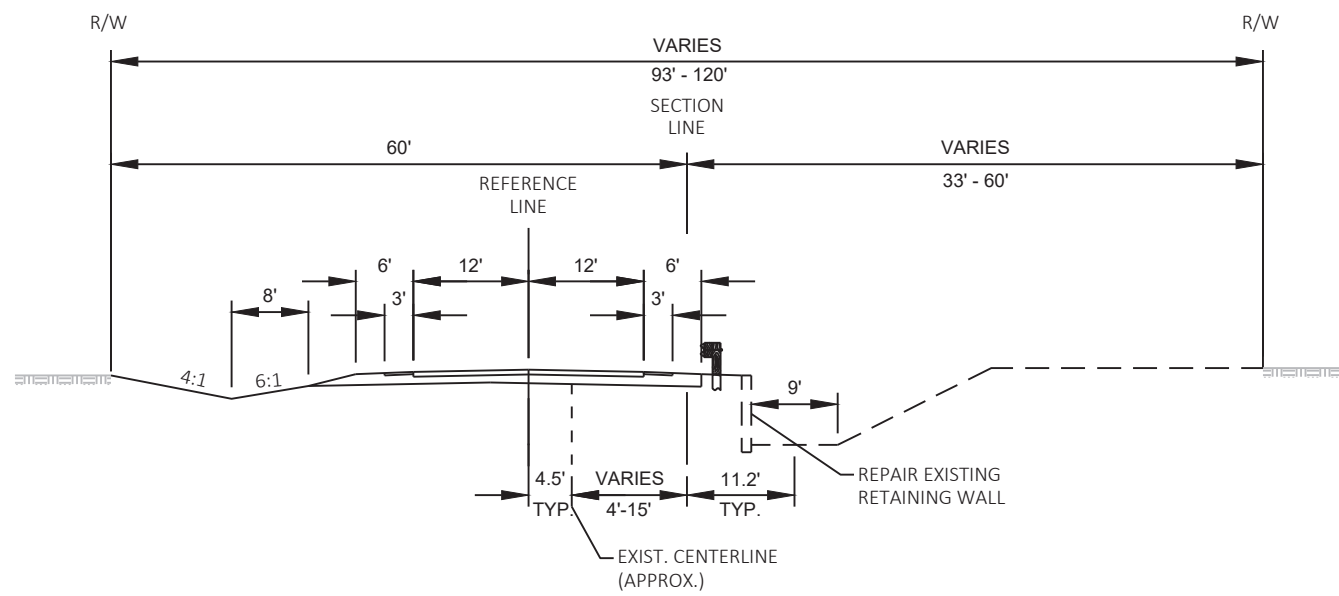


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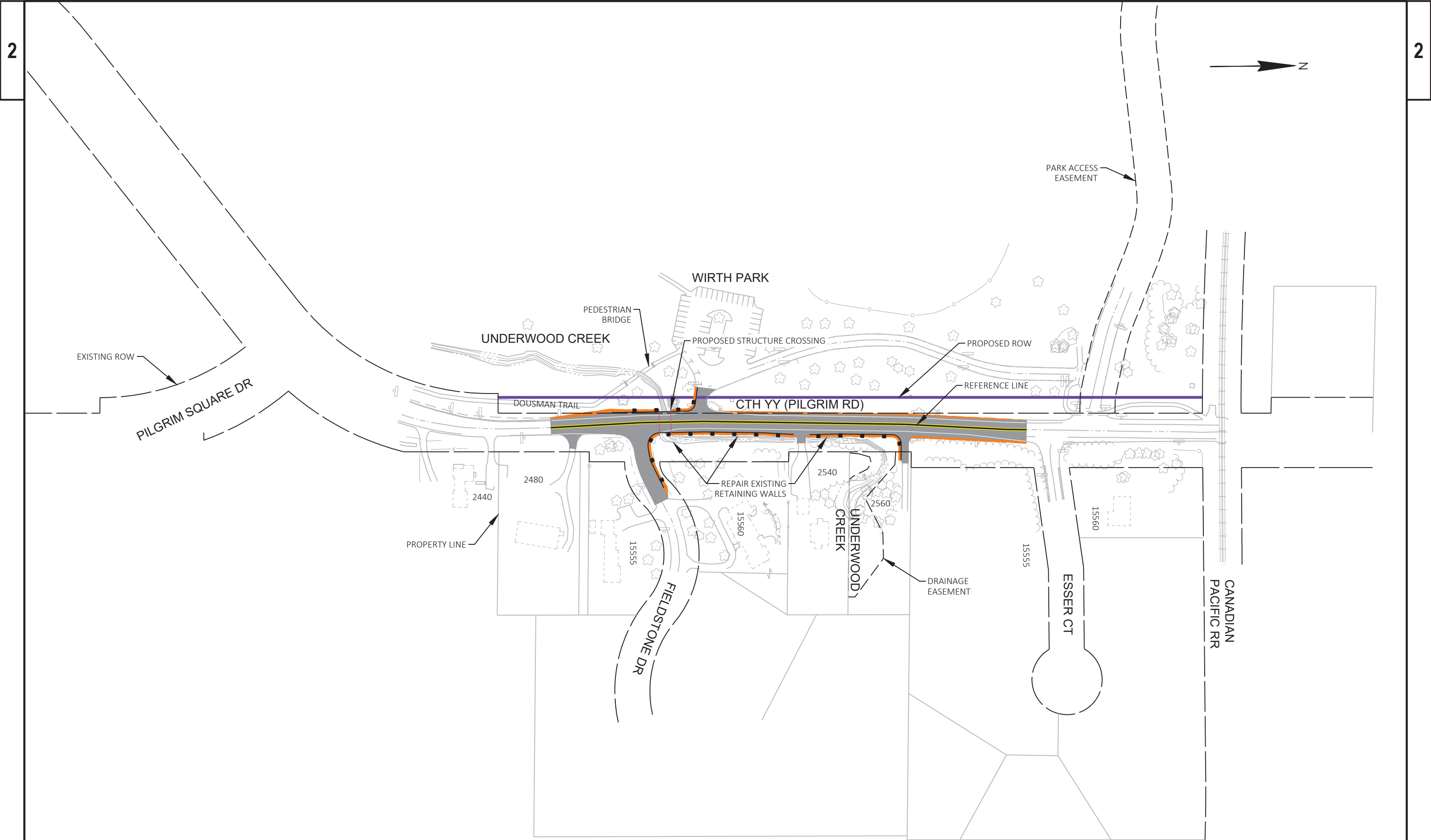
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PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST): 4-LANE FACILITY	SHEET	<b>E</b>
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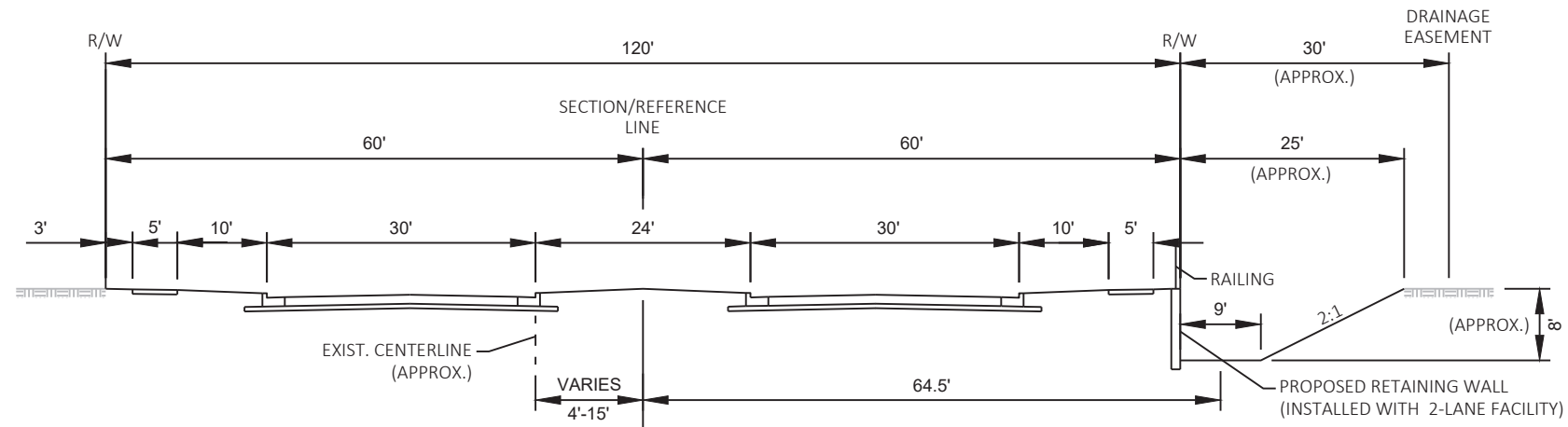
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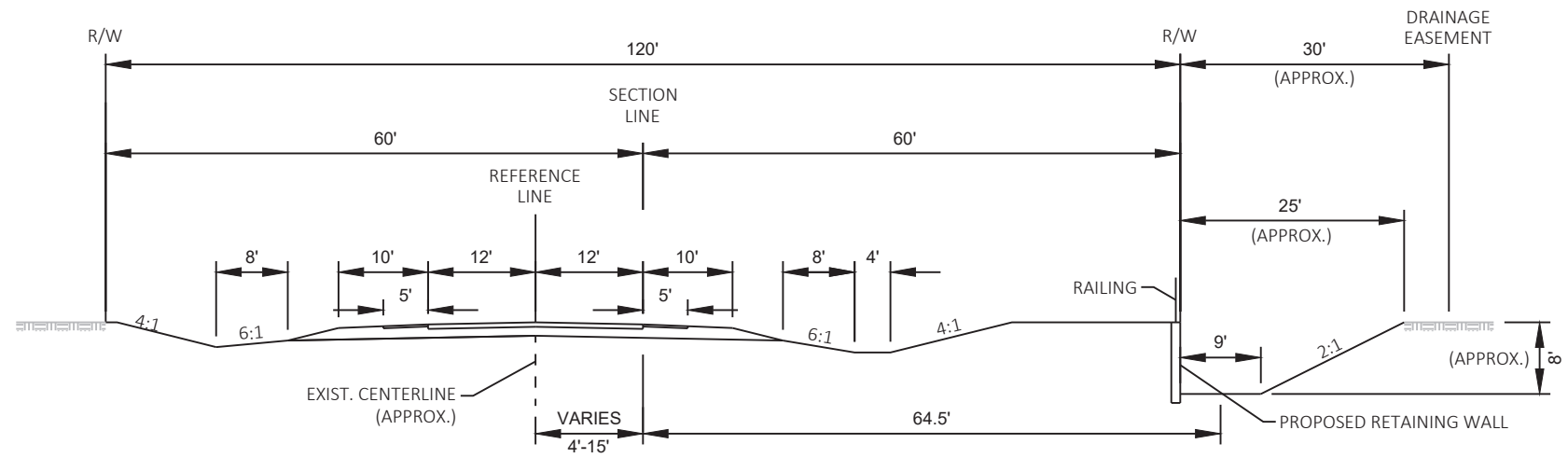
2

2

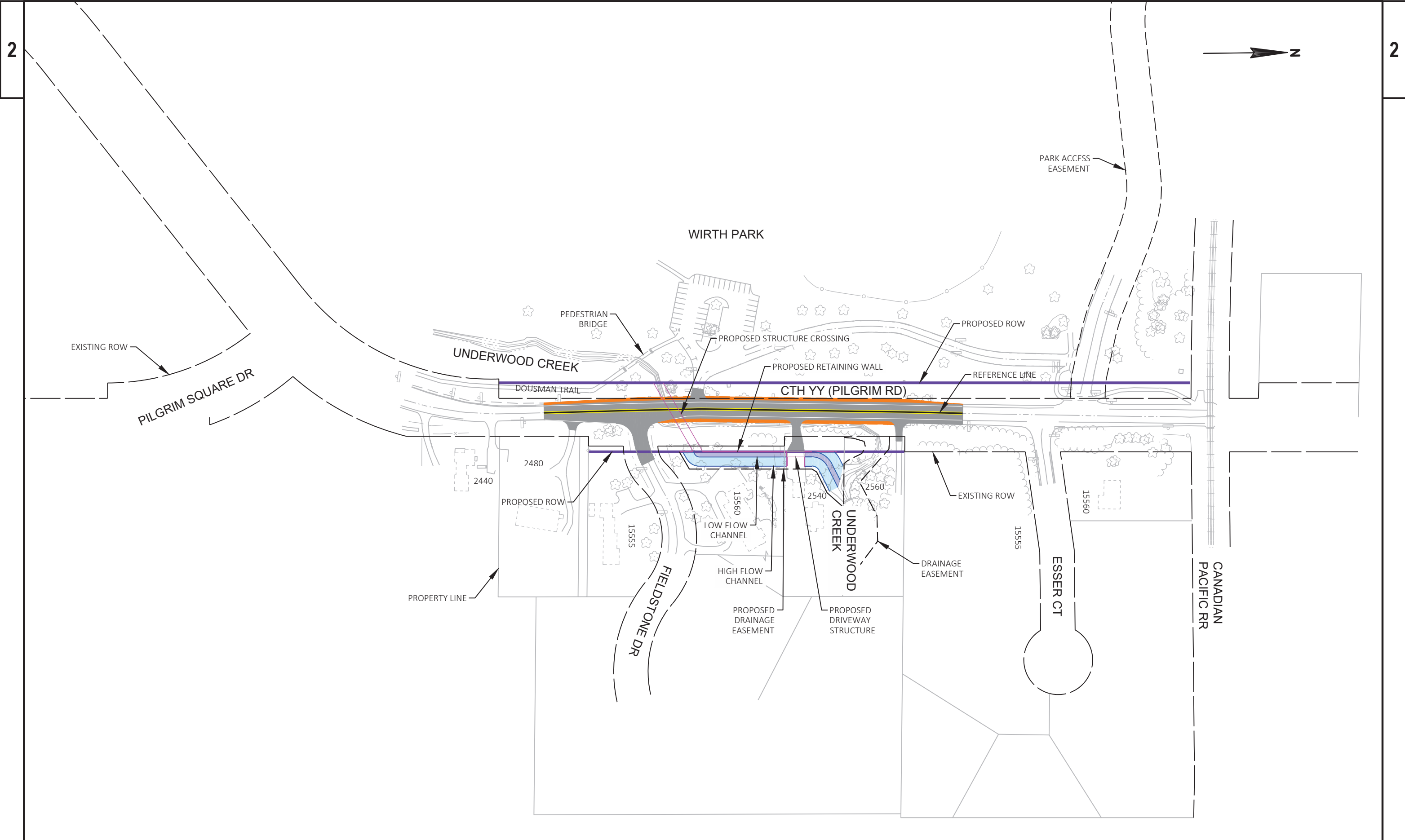
PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST - NARROW): 2-LANE FACILITY	SHEET	<b>E</b>
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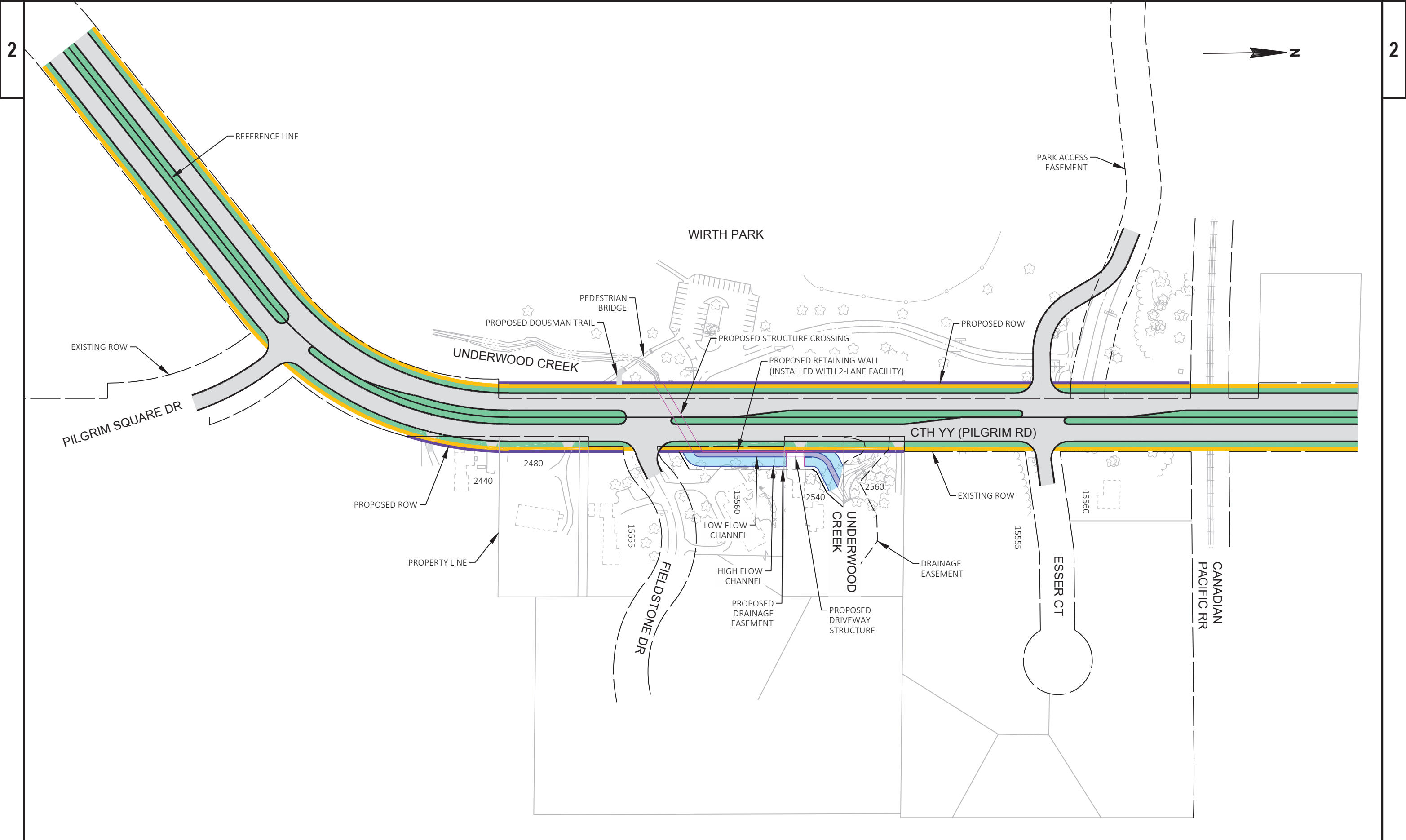


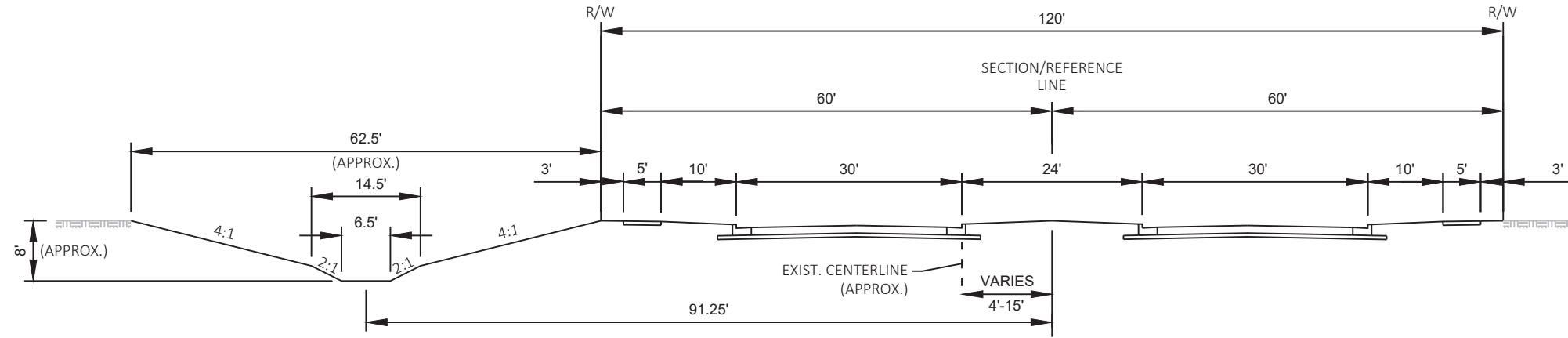
UNDERWOOD CREEK MOVED EAST (UC EAST)  
4-LANE FACILITY



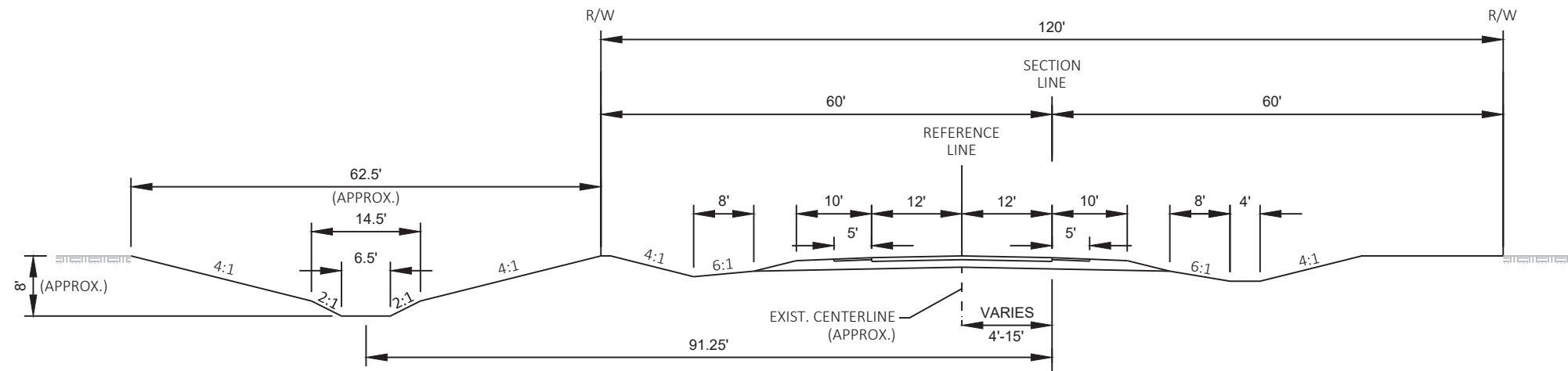
UNDERWOOD CREEK MOVED EAST (UC EAST)  
2-LANE FACILITY



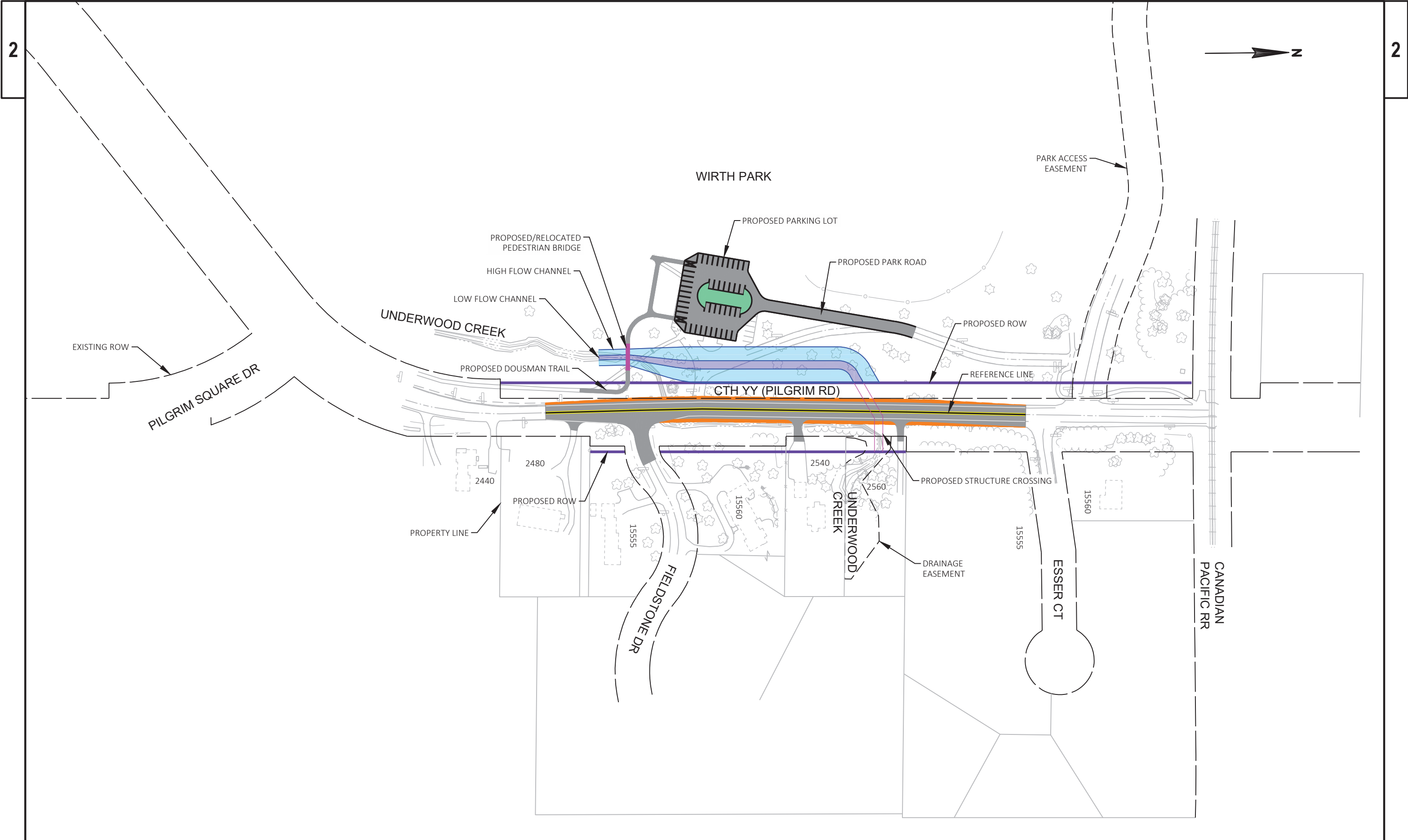




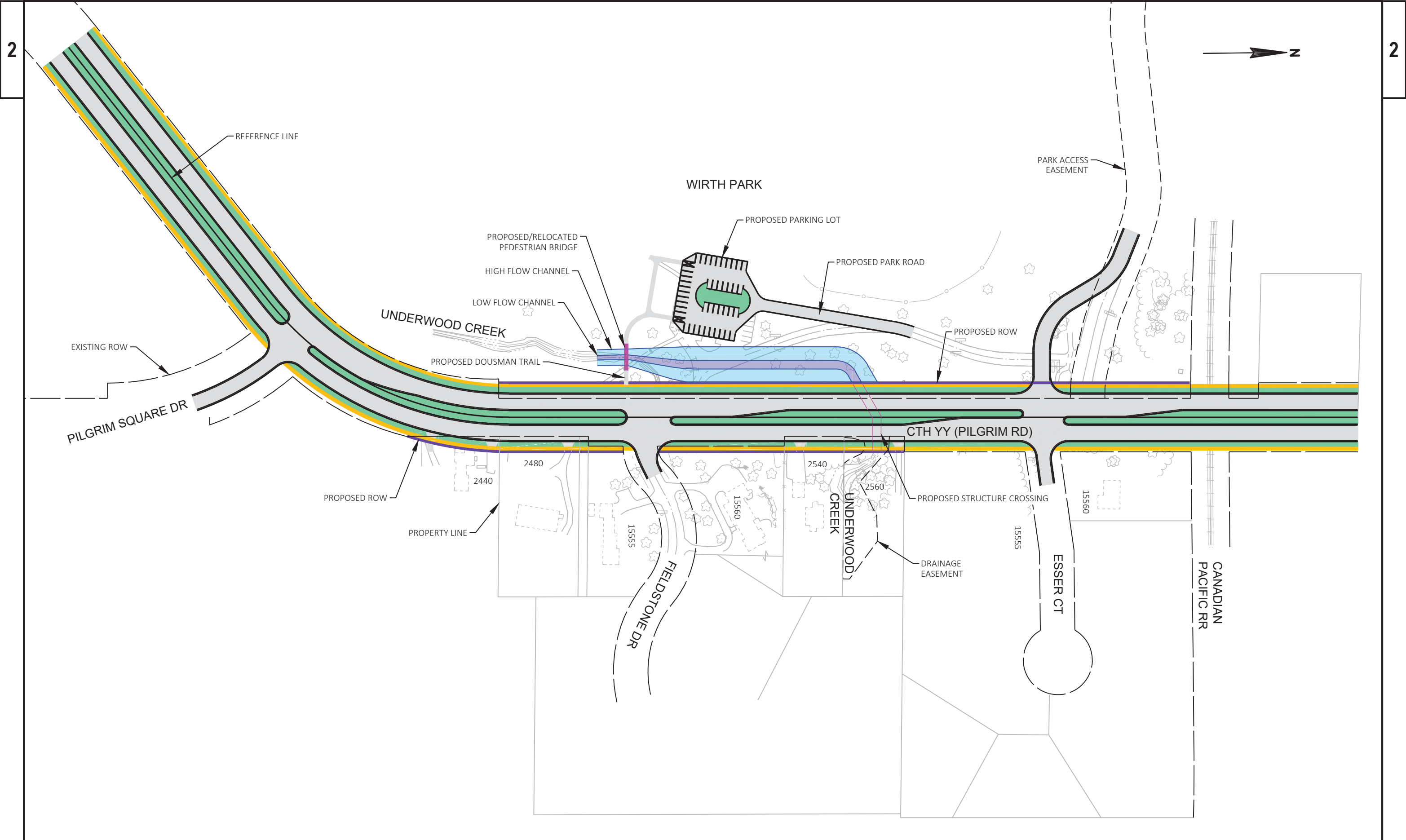
UNDERWOOD CREEK MOVED WEST (UC WEST)  
4-LANE FACILITY



UNDERWOOD CREEK MOVED WEST (UC WEST)  
2-LANE FACILITY







# **Public Involvement Meeting Handout**

**Project ID 18-2782(16)  
CTH YY (Pilgrim Rd) – Underwood Creek Structure  
Waukesha County**



**WAUKESHA COUNTY  
DEPARTMENT OF PUBLIC WORKS**

**February 13, 2019  
5 pm to 7 pm  
City of Brookfield Public Safety Building**

*Welcome to the Public Involvement Meeting for the replacement of the  
CTH YY (Pilgrim Rd) Underwood Creek Structure!*

## **Meeting Purpose**

The intent of the meeting is to be informative. We are here to discuss the proposed project with you, answer questions, and listen to your comments, concerns and/or suggestions. This meeting will be an open house format from 5 pm – 7 pm. Please review handouts and exhibits at your leisure.

## **Project Information**

Waukesha County is evaluating alternatives for the replacement of the CTH YY (Pilgrim Rd) Underwood Creek Structure. This project is a spot improvement project to replace a structure in poor condition.

The roadway and structure were originally built and maintained by the City of Brookfield. Jurisdiction of the structure and roadway was transferred to Waukesha County in 2006. This project is being completed with County funds.

The CTH YY (Pilgrim Rd) structure is a concrete slab with a single span of approximately 18'. The structure has been widened on both sides using pre-stressed concrete channel girders. Deterioration and undermining of the abutments was repaired in 2004 with a concrete skirt at each abutment.

CTH YY (Pilgrim Rd) will remain a 2-lane facility with this project. Waukesha County proposes to reconstruct CTH YY (Pilgrim Rd) with 2-12' lanes and 10' shoulders.

While CTH YY (Pilgrim Rd) will remain a 2-lane facility with this project, it has been identified in the Southeastern Wisconsin Regional Planning Commission's long-range plans as a future 4-lane facility. Therefore, preliminary design will investigate how the structure built today could accommodate a future expansion. A 4-lane expansion of CTH YY (Pilgrim Rd) is not programmed in the County's 5-Year Capital Plan.

## **Structure Replacement Alternatives**

The following is a synopsis of the alternatives being investigated. Please see exhibits for additional information.

### **Underwood Creek in Existing Location**

This alternative would maintain Underwood Creek in its existing location along the east side of CTH YY (Pilgrim Rd) north of Fieldstone Dr. The retaining walls defining the creek would also remain in the existing location. CTH YY (Pilgrim Rd) would shift to the west.

### **Underwood Creek Moved East**

This alternative would relocate Underwood Creek east of the existing creek location. The new creek alignment would be established in order to accommodate a future 4-lane expansion. Therefore, the creek would need to be placed outside of the highway right-of-way within a drainage easement. This alternative would construct new retaining walls along the west side of the creek. As it does today, the east side of the creek would be graded (sloped) back to match into the abutting property. CTH YY (Pilgrim Rd) would stay on its existing alignment.

### **Underwood Creek Moved West**

This alternative would propose to relocate Underwood Creek to the west side of CTH YY (Pilgrim Rd). The new creek alignment would be established in order to accommodate a future 4-lane expansion. The stream crossing of CTH YY (Pilgrim Rd) would be moved north. The crossing would occur south of Esser Ct where Underwood Creek flows to the east within an existing drainage easement. This alternative would remove the existing retaining walls and backfill Underwood Creek along the existing alignment. CTH YY (Pilgrim Rd) would remain on its existing alignment.

## **Highway Right-of-Way (ROW)**

The Established Street and Highway Width Map for Waukesha County, WI indicates a planned 120' highway ROW width for CTH YY (Pilgrim Rd) between CTH M (North Ave) and CTH K (Lisbon Rd). North and south of the project limits the ROW is 120'. Within the project limits the ROW varies from 66' to 93'. In accordance with the Waukesha County Code of Ordinances, this project may acquire highway ROW widths in accordance with those indicated in the Established Street and Highway Width Map.

## **Real Estate**

Right-of-way acquisition, temporary limited easements (TLEs), and permanent limited easements (PLEs) are anticipated for this project. Land acquisition will be performed by Waukesha County and is anticipated to begin in Fall 2019.

## **Construction Staging / Detour Routes**

Access will be maintained to properties within the work zone during construction for the project. However, since this is a structure replacement project, CTH YY (Pilgrim Rd) will be closed to all other through traffic.

The project will have a posted detour route during construction. Coordination will begin in the near future with WisDOT and City of Brookfield officials for use of their roadways to detour traffic. Coordination will also take place concerning timing of construction and other projects in the area.

## **Project Schedule**

The design team will evaluate comments received during tonight's Public Involvement Meeting as the alternative investigation continues. It is anticipated that a preferred alternative will be selected in late spring or early summer 2019. The selected alternative will be shared with stakeholders at that time.

Final plans for the project are anticipated to be submitted in January 2020 with construction taking place in Summer 2020, pending coordination with other area projects.

## **Public Input / Comments**

We encourage you to talk to the project representatives and ask questions. Attached to this handout is a sheet for your written comments and input regarding the proposed project. Please mail any written comments about the project before March 1, 2019 or leave them in the comment box tonight. You can also email your comments to the contacts listed below.

Your comments assist us in developing a project that will serve the needs of the traveling public as well as the needs of the local community. Your input is welcome and appreciated throughout the design process.

For more information, please contact:

Kevin Yanny, PE; Waukesha County DPW – Project Manager,  
515 W Moreland Blvd, AC220, Waukesha, WI 53188; Phone: 262.548.7740; email:  
[KYanny@waukeshacounty.gov](mailto:KYanny@waukeshacounty.gov)

Philip Bain, PE; Ayres Associates – Design Leader,  
N17 W24222 Riverwood Drive, Suite 310, Waukesha, WI 53188; Phone: 262.522.4940; email:  
[BainP@AyresAssociates.com](mailto:BainP@AyresAssociates.com)

# Waukesha County GIS Map



Project ID 18-2782(16)  
CTH YY  
Underwood Creek Structure

Wirth Park

Underwood Creek

Project Location

0 0.04 Miles

Notes: CTH YY at Underwood Creek Structure

The information and depictions herein are for informational purposes and Waukesha County specifically disclaims accuracy in this reproduction and specifically admonishes and advises that if specific and precise accuracy is required, the same should be determined by procurement of certified maps, surveys, plats, Flood Insurance Studies, or other official means. Waukesha County will not be responsible for any damages which result from third party use of the information and depictions herein, or for use which ignores this warning.



Project ID 18-2782(16)

CTH YY (Pilgrim Rd) – Underwood Creek Structure

Waukesha County

	Overview of Alternatives	
	Wirth Park Considerations	Residential Considerations
Alternative		
<b>Underwood Creek in Existing Location</b>	<ul style="list-style-type: none"> <li>- Road shifted west to accommodate new shoulder and guardrail along creek.</li> <li>- Right-of-way acquisition required to achieve 120' highway corridor and accommodate roadway shift.</li> <li>- Creek realigned to accommodate new structure.</li> <li>- Pedestrian bridge impacted.</li> <li>- Dousman Trail impacted in 4-lane expansion.</li> <li>- Park access north of Fieldstone Dr closed in 4-lane expansion.</li> <li>- Parking lot impacted in 4-lane expansion.</li> <li>- Park road impacted in 4-lane expansion.</li> </ul>	<ul style="list-style-type: none"> <li>- No permanent right-of-way acquisition required.</li> <li>- Creek remains within existing highway right-of-way.</li> <li>- Retaining wall remains along creek.</li> <li>- Existing driveway structure over creek remains.</li> <li>- New guardrail installed.</li> </ul>
<b>Underwood Creek Moved East</b>	<ul style="list-style-type: none"> <li>- Road remains on existing alignment.</li> <li>- Right-of-way acquisition required to achieve 120' highway corridor.</li> <li>- Pedestrian bridge unaffected.</li> <li>- Dousman Trail impacted in 4-lane expansion.</li> <li>- Park access north of Fieldstone Dr closed in 4-lane expansion.</li> <li>- Parking lot unaffected.</li> <li>- Park road unaffected.</li> </ul>	<ul style="list-style-type: none"> <li>- Right-of-way acquisition required to achieve 120' highway corridor.</li> <li>- Creek relocated outside of highway right-of-way.</li> <li>- Drainage easement required for relocating creek outside of highway right-of-way.</li> <li>- New retaining wall required along creek.</li> <li>- New driveway structure over relocated creek.</li> </ul>
<b>Underwood Creek Moved West</b>	<ul style="list-style-type: none"> <li>- Road remains on existing alignment.</li> <li>- Right-of-way acquisition required to achieve 120' highway corridor.</li> <li>- Creek relocated west, outside of highway ROW.</li> <li>- Pedestrian bridge impacted.</li> <li>- Dousman Trail impacted.</li> <li>- Park access north of Fieldstone Dr closed.</li> <li>- Parking lot impacted.</li> <li>- Park road impacted.</li> </ul>	<ul style="list-style-type: none"> <li>- Right-of-way acquisition required to achieve 120' highway corridor.</li> <li>- Creek no longer between roadway and homes.</li> <li>- No retaining wall needed.</li> <li>- No driveway structure needed.</li> <li>- No guardrail needed.</li> </ul>

**PUBLIC INVOLVEMENT MEETING COMMENT SHEET**

Project ID 18-2782(16)

CTH YY (Pilgrim Rd) – Underwood Creek Structure

Waukesha County

**Wednesday, February 13, 2019, 5-7 pm**



WAUKESHA COUNTY  
DEPARTMENT OF PUBLIC WORKS

Please use the space below to comment on the proposed **CTH YY Underwood Creek Structure** replacement project. Your input is important to us. You may either leave the completed form with us today or you can mail it to us by March 1, 2019.

Date: \_\_\_\_\_

General Project Comments:

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Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone Number: ( ) \_\_\_\_\_ E-Mail Address \_\_\_\_\_

*Thank you for taking the time to complete the comment section. We appreciate your involvement with the project.*



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**CTH YY (Pilgrim Rd) Underwood Creek Structure  
Project ID 18-2782(16), Waukesha County  
Public Comment Form**

Add  
Stamp  
Here

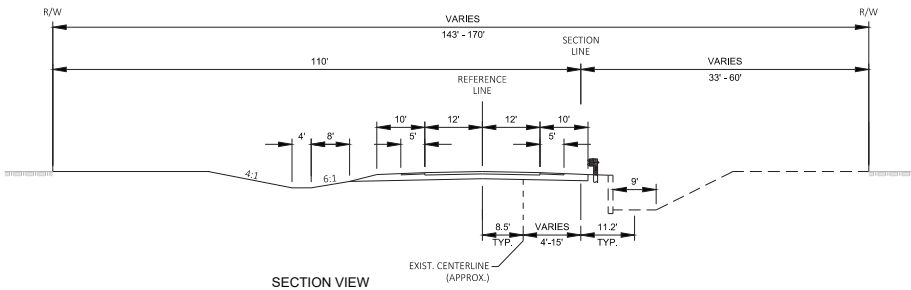
**AYRES**  
**ASSOCIATES**

N17 W24222 Riverwood Drive, Suite 310  
Waukesha, WI 53188

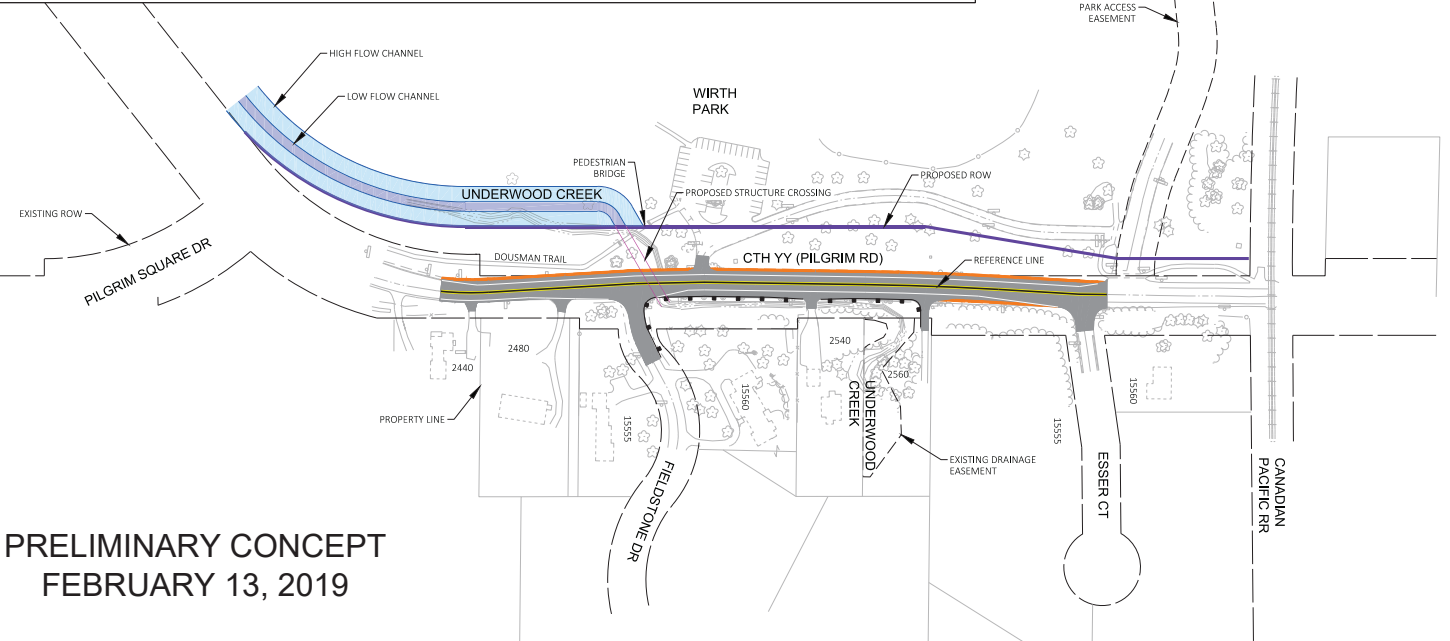
Mr. Philip Bain, PE  
Ayes Associates  
N17 W24222 Riverwood Drive, Suite 310  
Waukesha, WI 53188

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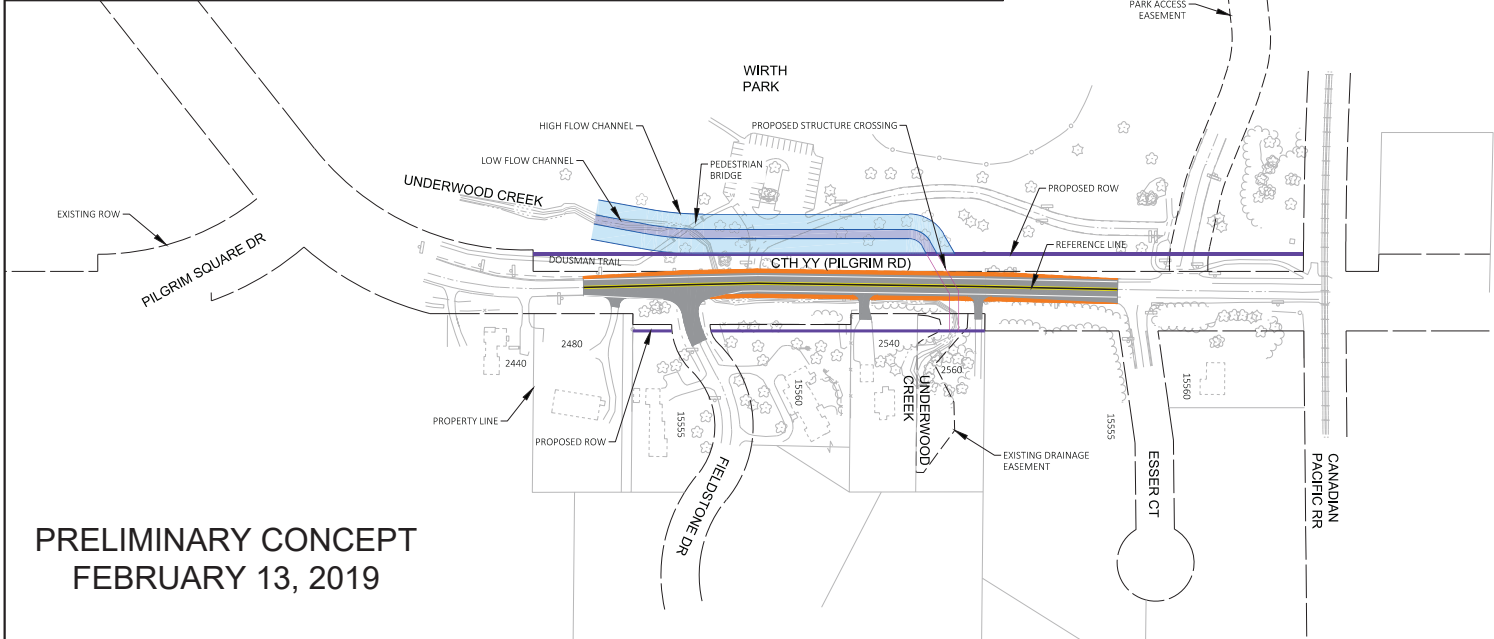
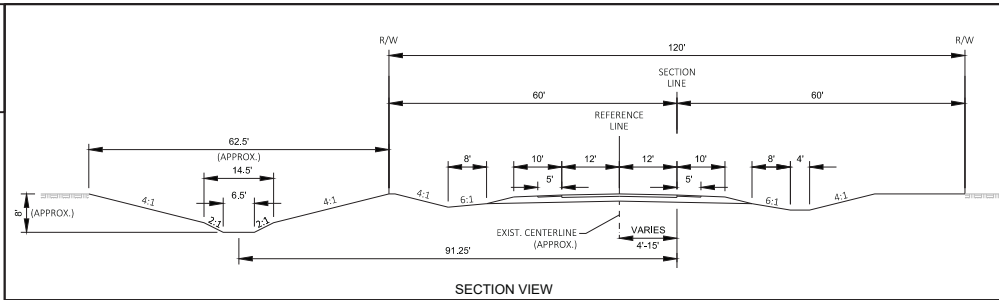
SECTION VIEW



PRELIMINARY CONCEPT  
FEBRUARY 13, 2019

PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	PRELIMINARY CONCEPT: UNDERWOOD CREEK IN EXISTING LOCATION	SHEET	<b>E</b>
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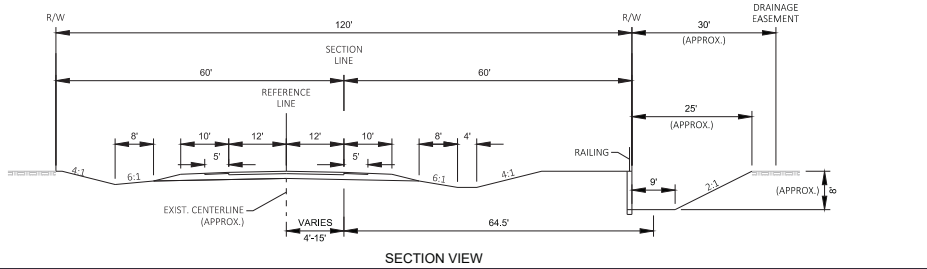
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 PLOT DATE: 2/12/2019 12:18 PM  
 PLOT BY: STEUCK, ROBERT  
 PLOT NAME:  
 PLOT SCALE: 1 IN=150 FT  
 WEDOT\CAD\DS SHEET 42



**PRELIMINARY CONCEPT**  
**FEBRUARY 13, 2019**

PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	PRELIMINARY CONCEPT: UNDERWOOD CREEK MOVED WEST	SHEET <b>E</b>
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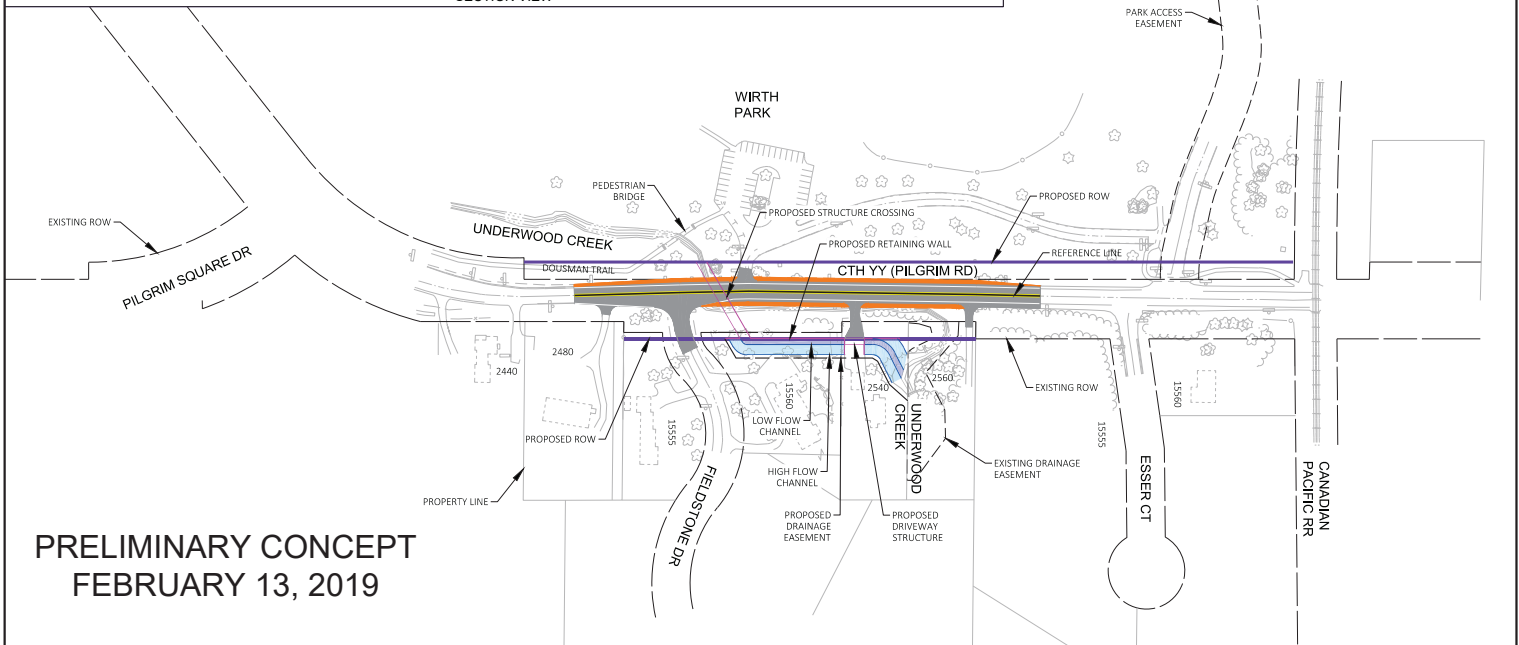
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 PLOT DATE: 2/12/2019 12:02 PM  
 PLOT BY: STEUCK, ROBERT  
 PLOT NAME:  
 PLOT SCALE: 1 IN=150 FT  
 WEDOT\CAD\DS SHEET 42



SECTION VIEW



**PRELIMINARY CONCEPT**  
**FEBRUARY 13, 2019**



PROJECT NO: 18-2782(16)	HWY: CTH YY	COUNTY: WAUKESHA	PRELIMINARY CONCEPT: UNDERWOOD CREEK MOVED EAST	SHEET	<b>E</b>
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FILE NAME: V:\TRANS-WK\18046300 CTH YY UNDERWOOD CREEK\CD\SHETS\OTHER\PM 1 EXHIBITS\CREEKEASTBEYONDRW.DWG PLOT DATE: 2/12/2019 12:19 PM PLOT BY: STEUCK, ROBERT PLOT NAME: WEDOT\CAD\DS SHEET 42

**Paul Farrow**  
County Executive



**Allison Bussler**  
Director

## Waukesha County Department of Public Works

Contact: Kevin Yanny  
[kyanny@waukeshacounty.gov](mailto:kyanny@waukeshacounty.gov)  
262-548-7740

**FOR IMMEDIATE RELEASE**

Date: Thursday, April 13, 2023

### **PUBLIC INFORMATION MEETING** **CTH YY (PILGRIM ROAD) UNDERWOOD CREEK STRUCTURE PROJECT** Meeting will be April 26, 2023 at the Brookfield Public Safety Building

**(WAUKESHA, WI)** – The Waukesha County Department of Public Works along with their engineering consultant Ayres Associates, will host the second public information meeting for a project to replace the CTH YY (Pilgrim Road) structure over Underwood Creek in the City of Brookfield. The informational meeting will be held on Wednesday, April 26, 2023 from 4:00 p.m. to 6:00 p.m. at the City of Brookfield Public Safety Building courtroom.

The meeting will be an open-house format with no formal presentation. Exhibits will be on display and handouts will be available. Persons with interest in this project are encouraged to stop by anytime between 4:00 p.m. and 6:00 p.m. Representatives from Waukesha County and Ayres Associates will be available to discuss the project, answer questions and gather input and comments from the public.

The Brookfield Public Safety Building is located at 2100 North Calhoun Road in the City of Brookfield. The building is ADA accessible. Hearing impaired persons needing assistance or persons requiring an interpreter please contact the individuals below by Monday, April 17.

For more information, please contact Mr. Kevin Yanny, Waukesha County Project Manager at (262) 548-7740 or Ms. Brenda Schoenfeld, Ayres Associates Project Manager at (262) 522-4921.

#### **About the Waukesha County Department of Public Works**

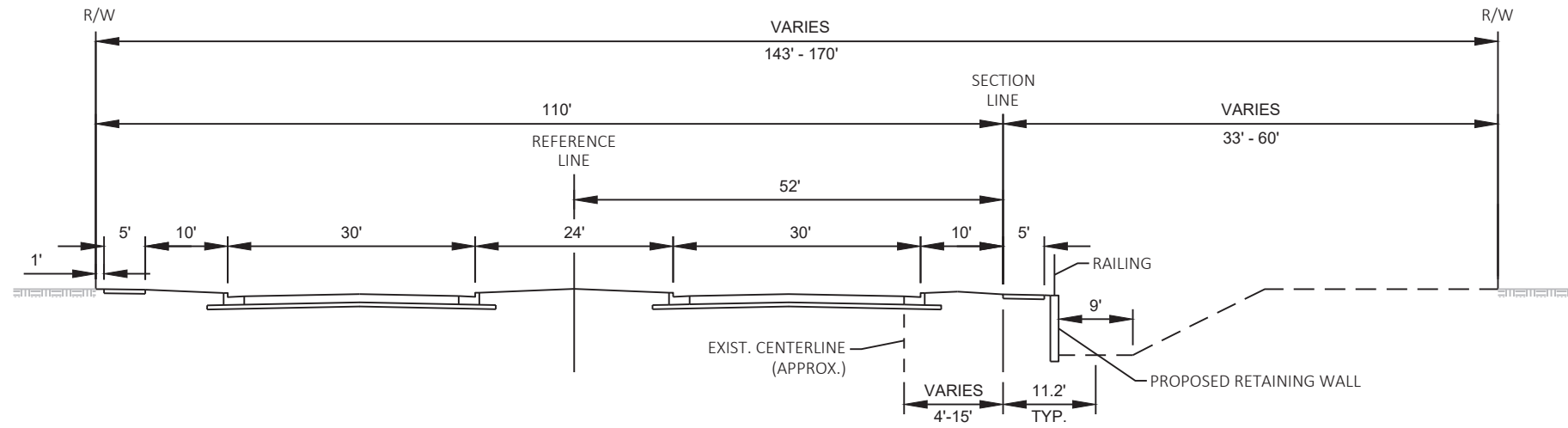
The Waukesha County Department of Public Works is committed to providing the foundations of success for the citizens and businesses of Waukesha County by constructing and maintaining quality transportation and building infrastructure. Get info on projects, plans, and more at [www.WaukeshaCounty.gov/DPW](http://www.WaukeshaCounty.gov/DPW).

Follow Waukesha County DPW on Twitter at [www.twitter.com/WaukeshaCoDPW](https://www.twitter.com/WaukeshaCoDPW).

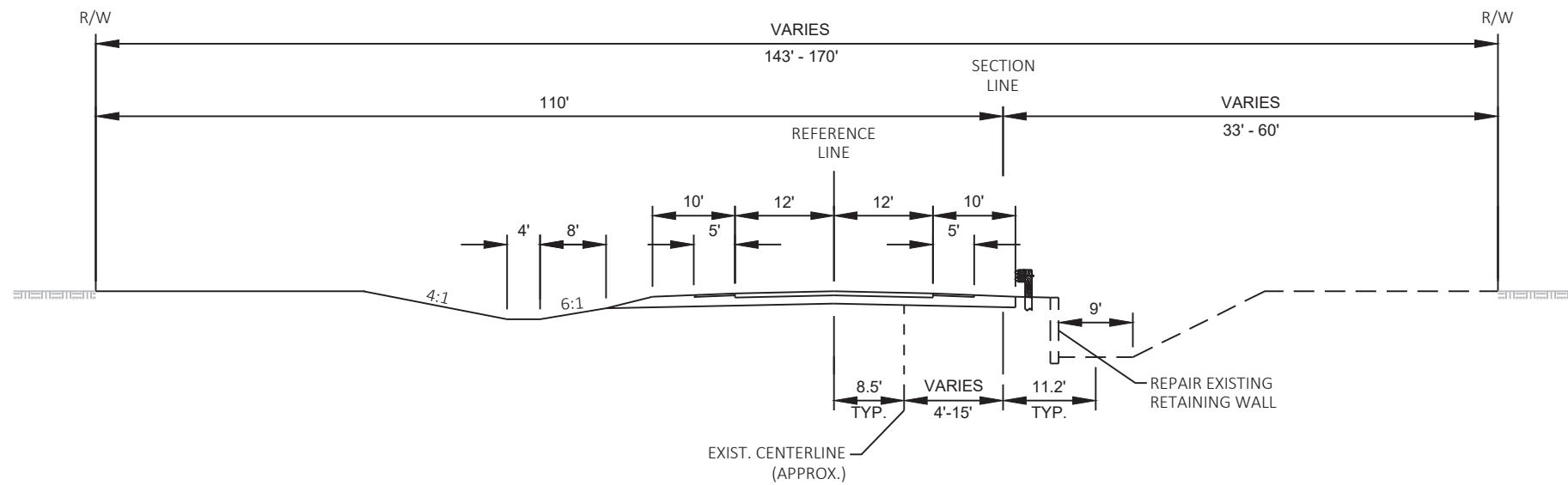
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**Department of Public Works**  
515 W. Moreland Blvd., Room AC220  
262-548-7740

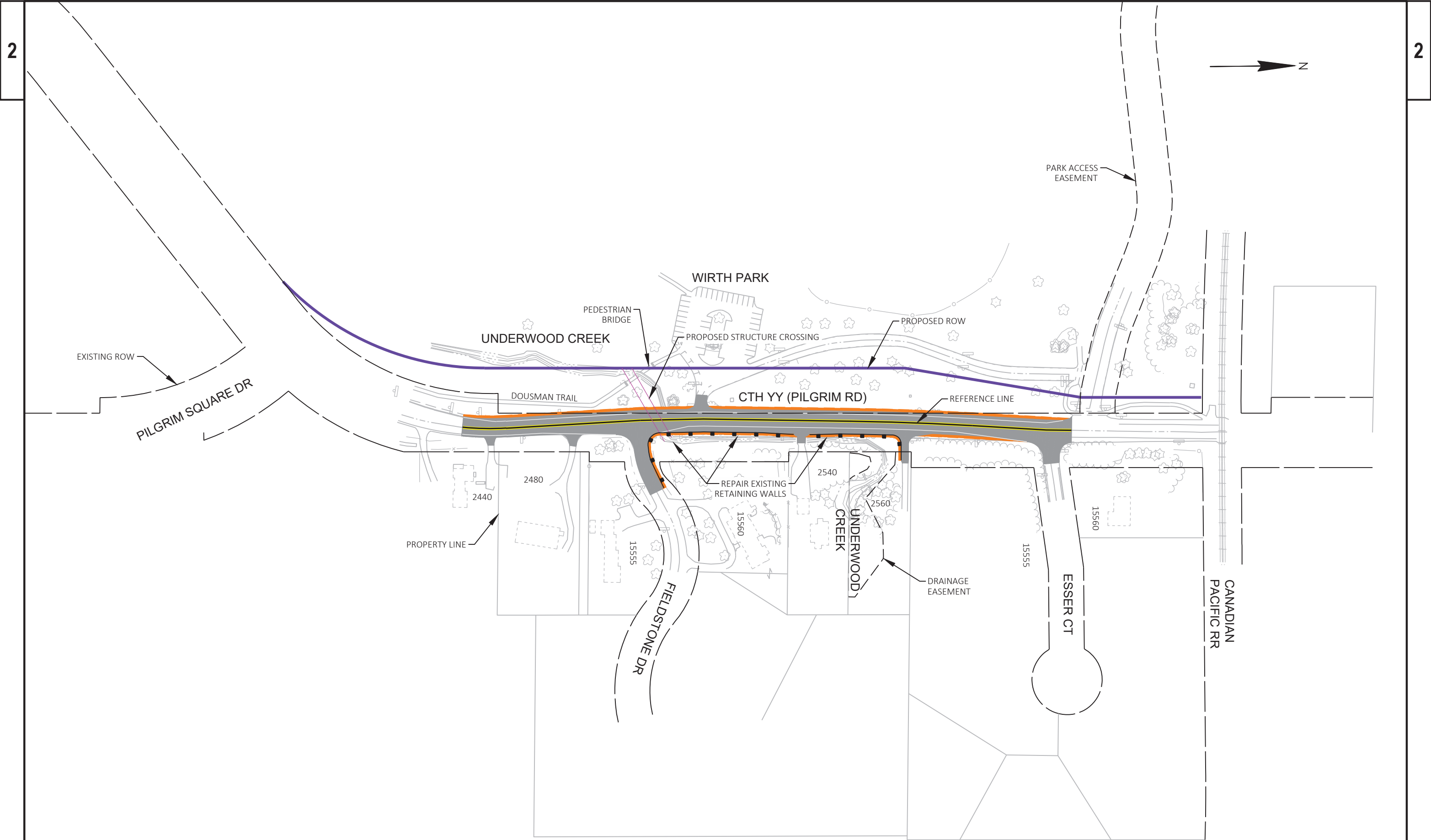


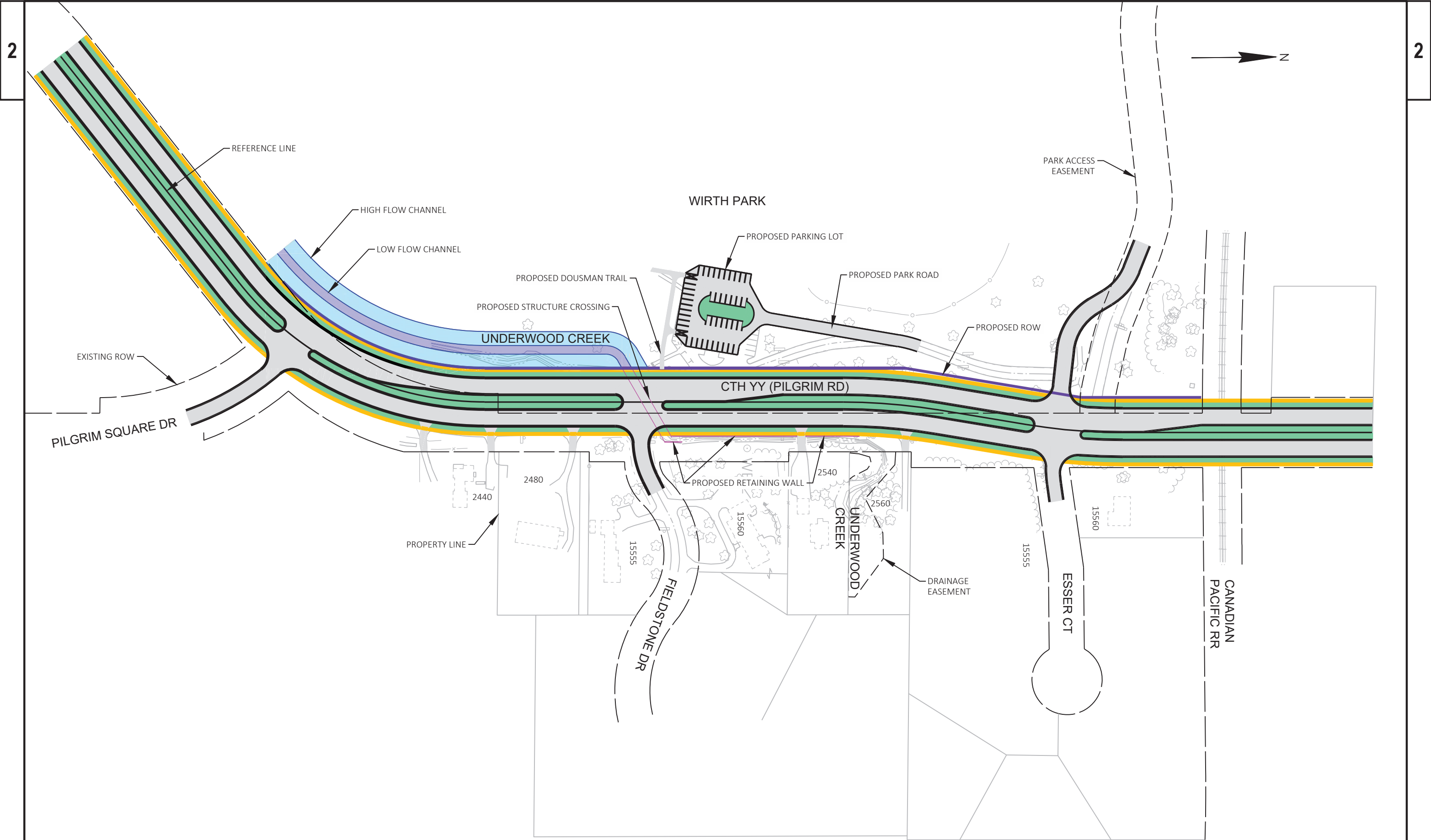


UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST)  
4-LANE FACILITY

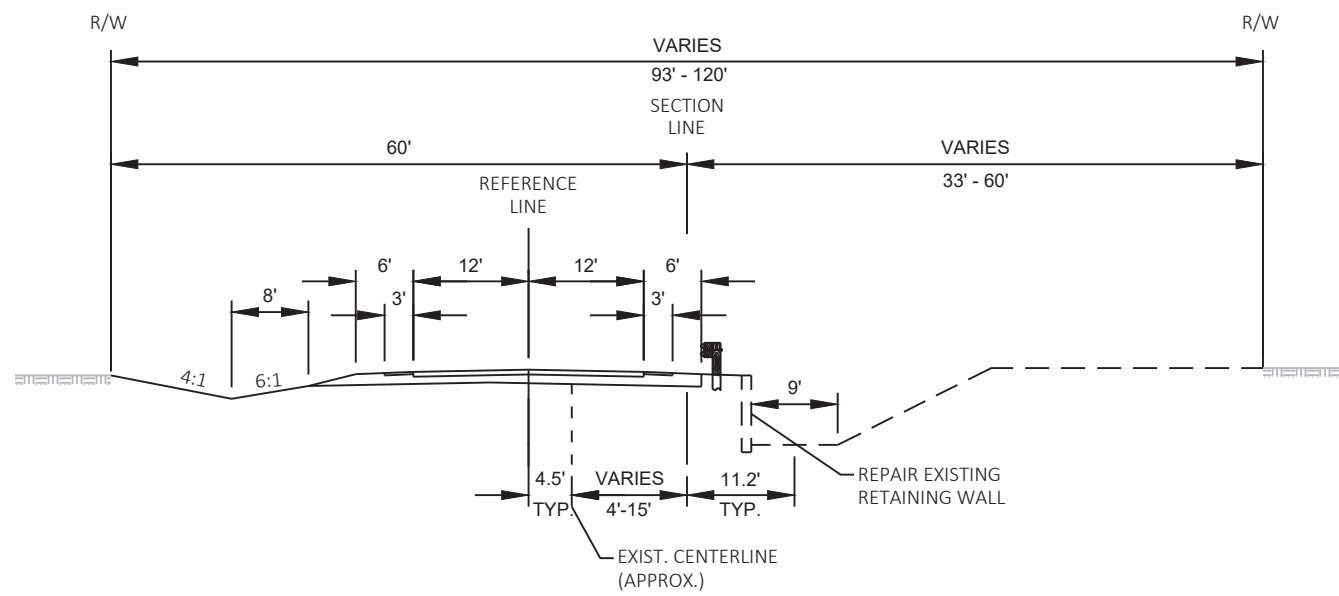


UNDERWOOD CREEK IN EXISTING LOCATION (UC EXIST)  
2-LANE FACILITY

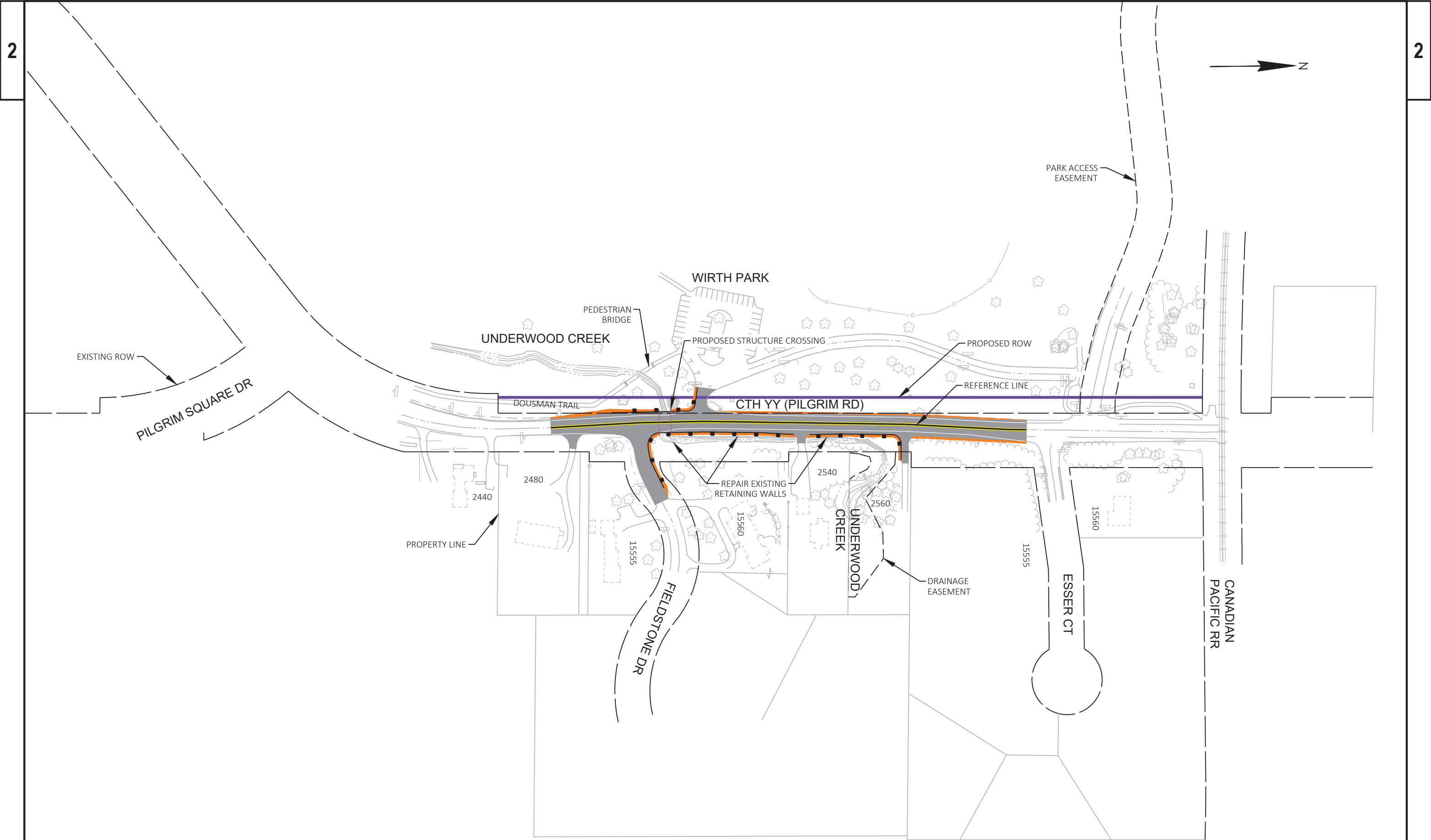


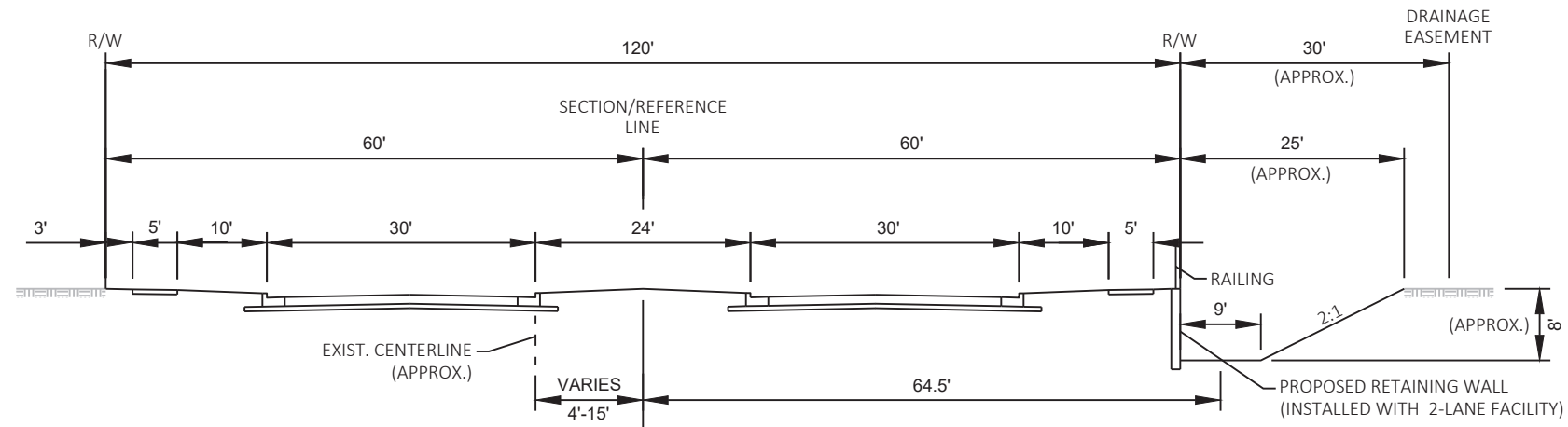




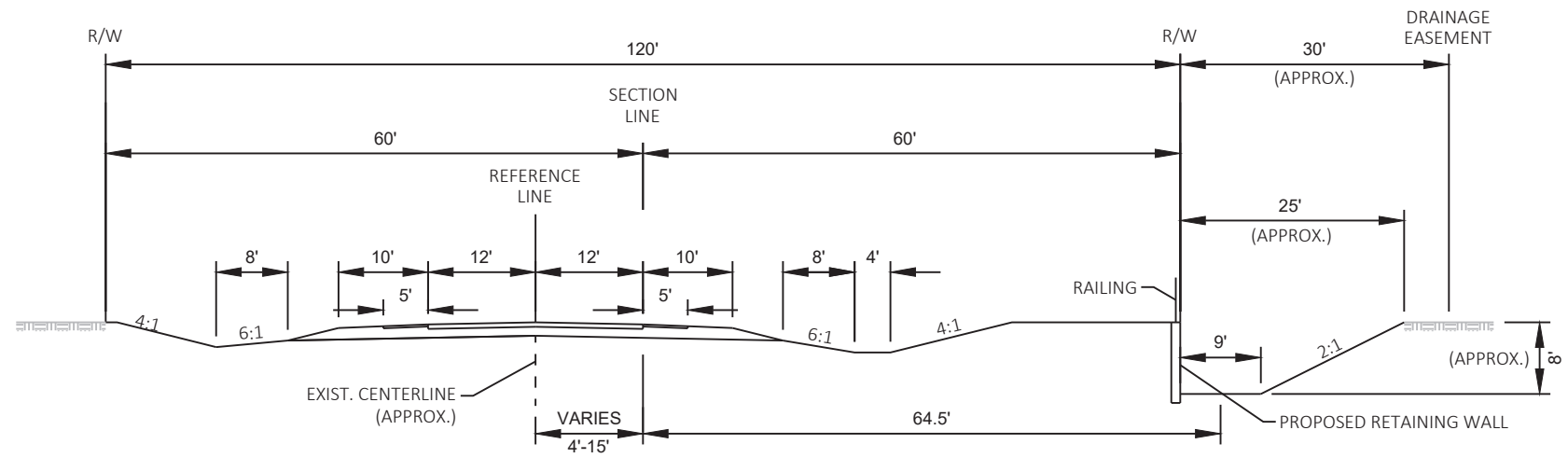


UNDERWOOD CREEK IN EXISTING LOCATION WITH NARROW SHOULDERS (UC EXIST - NARROW) 2-LANE FACILITY

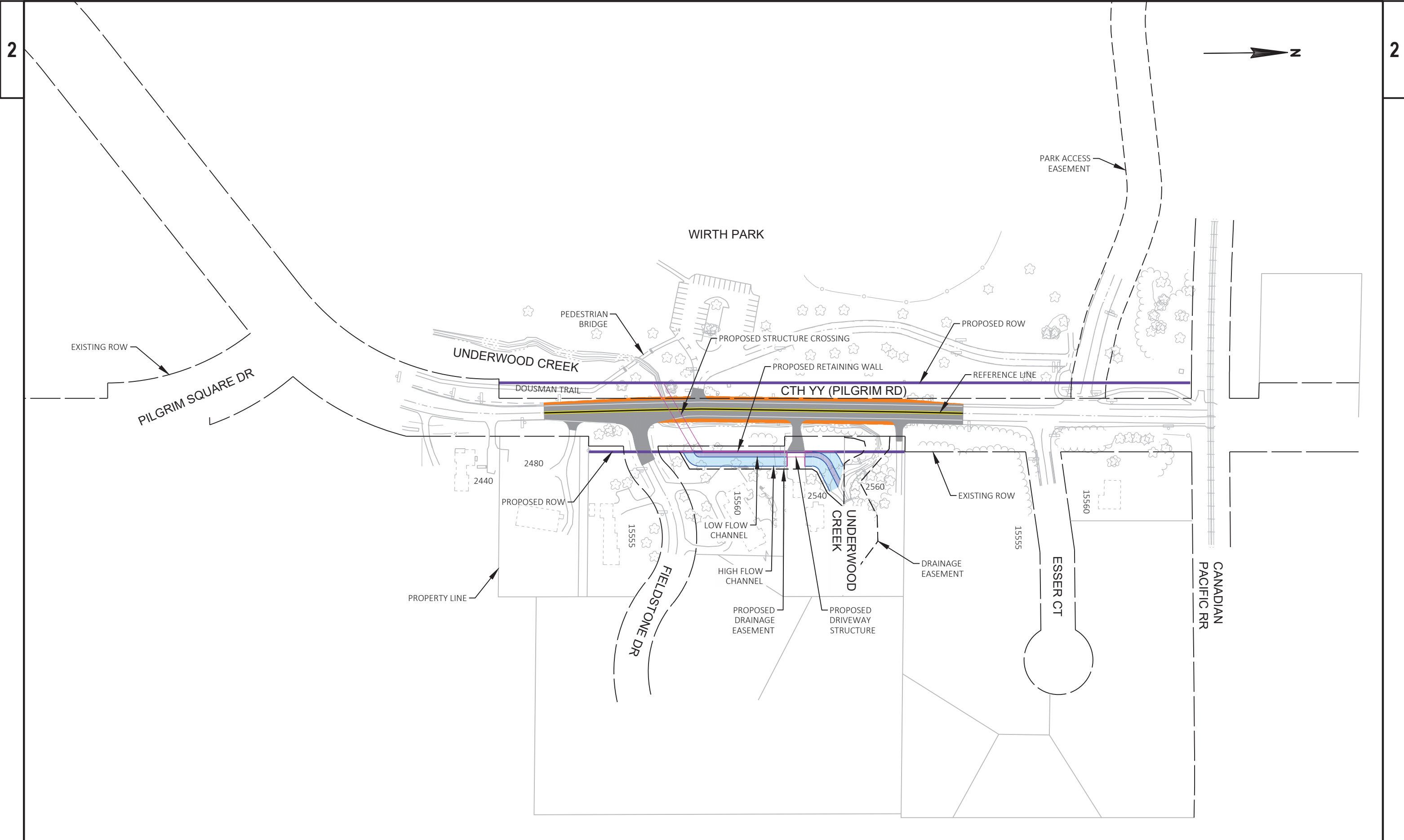


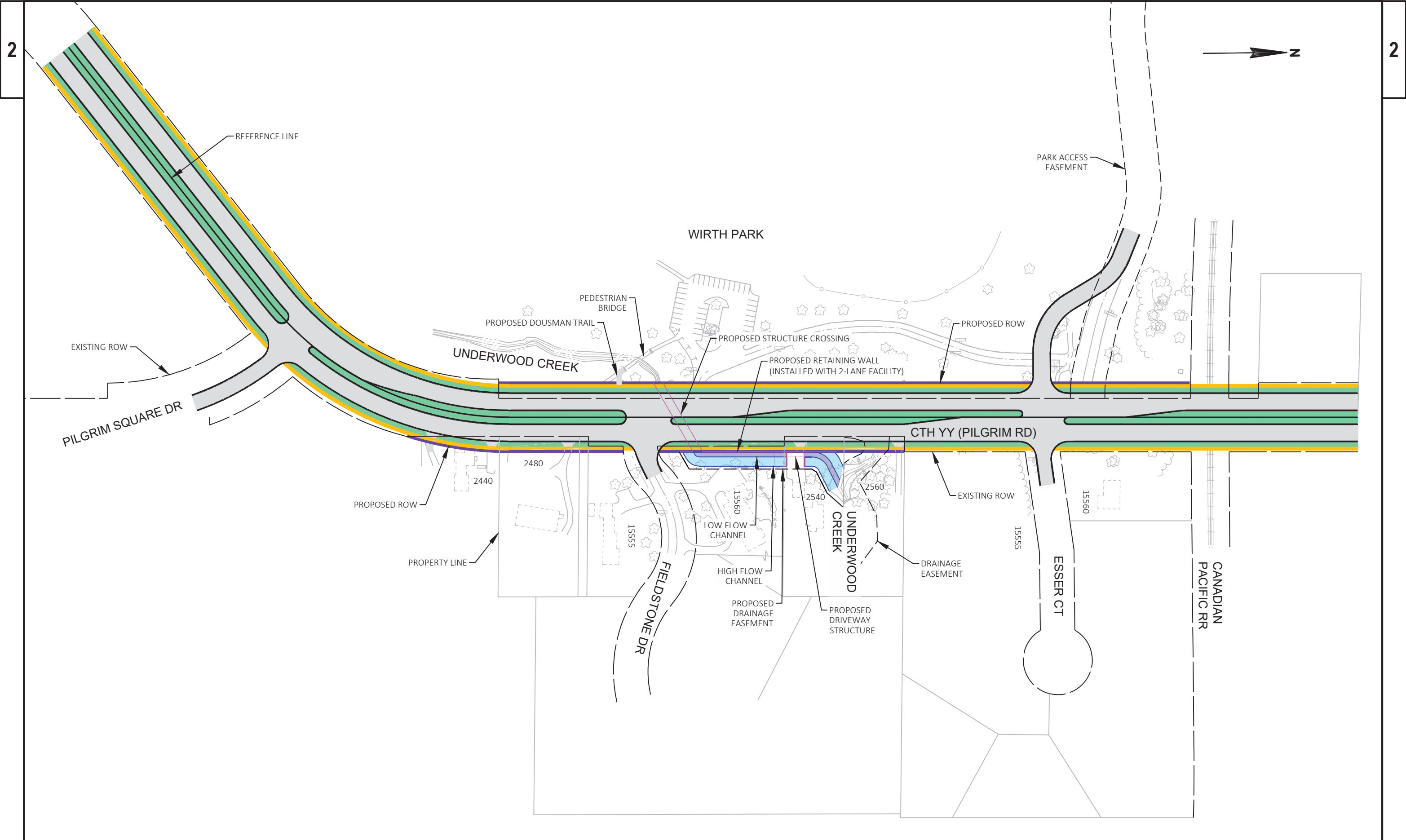


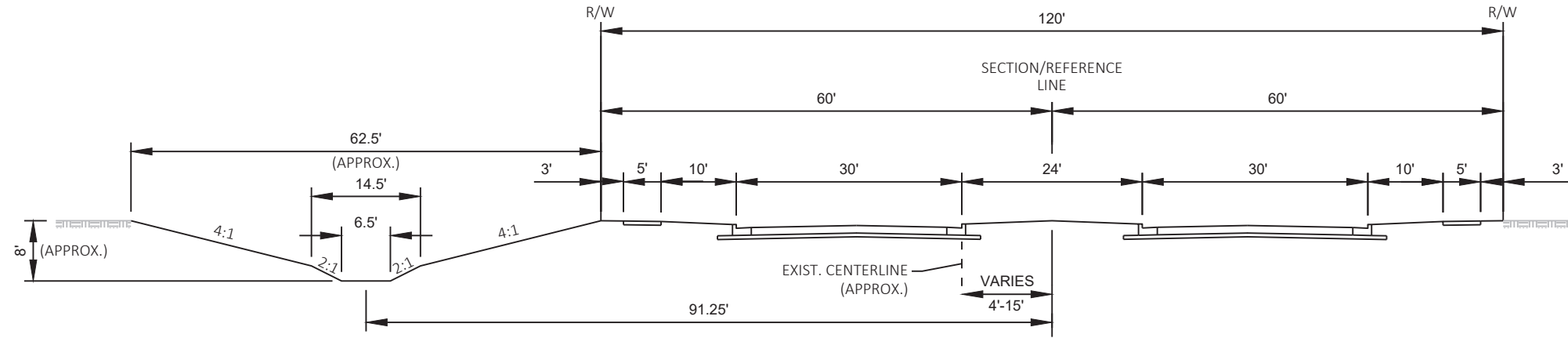
UNDERWOOD CREEK MOVED EAST (UC EAST)  
4-LANE FACILITY



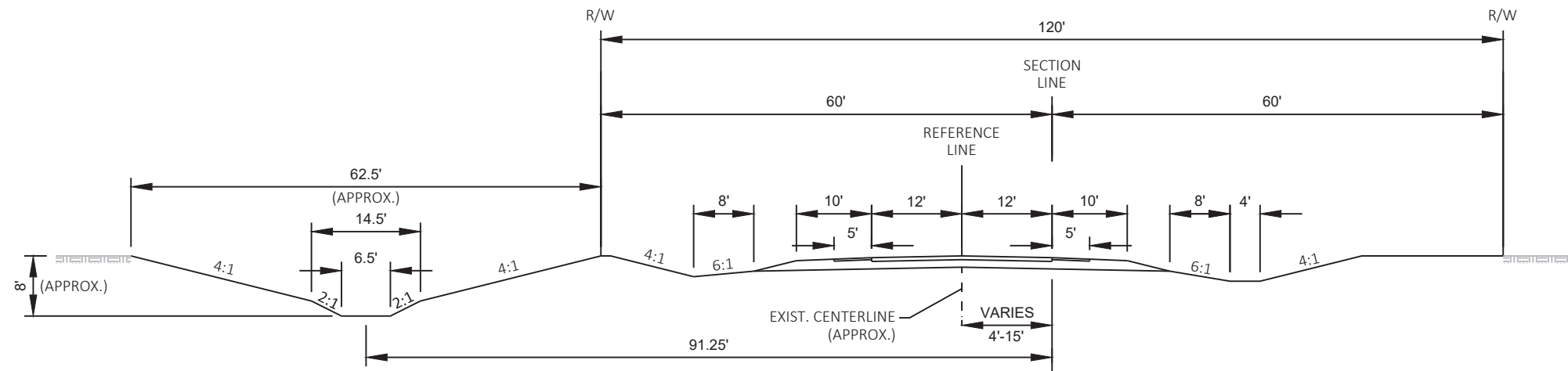
UNDERWOOD CREEK MOVED EAST (UC EAST)  
2-LANE FACILITY







UNDERWOOD CREEK MOVED WEST (UC WEST)  
4-LANE FACILITY



UNDERWOOD CREEK MOVED WEST (UC WEST)  
2-LANE FACILITY



WIRTH PARK

