Old Town

Highway Reconstruction/Intersection Improvements and Bridge Replacements on Stillwater Ave

Work Identification Numbers 022950.00, 022511.00 & 022512.00

Preliminary Public Meeting

Wednesday September 4, 2019

- Presented to
  Town of Old Town, ME

- Presented by
  MaineDOT & VHB

Old Town – Stillwater Ave

Meeting Overview

- Welcome and Introductions
- Project Background
- Preliminary Design Overview
  - Highway
  - Bridges
- Project Schedule and Funding
- Questions and Answers

Old Town – Stillwater Ave

Project Background

- Bridge Projects kickoff: 2014
- Bridge project -Public meeting: September 9, 2015
- Initial traffic study says College Avenue Intersection needs to be improved: November 2015
- Bridge deck repairs: June 2016

Old Town – Stillwater Ave

Project Background

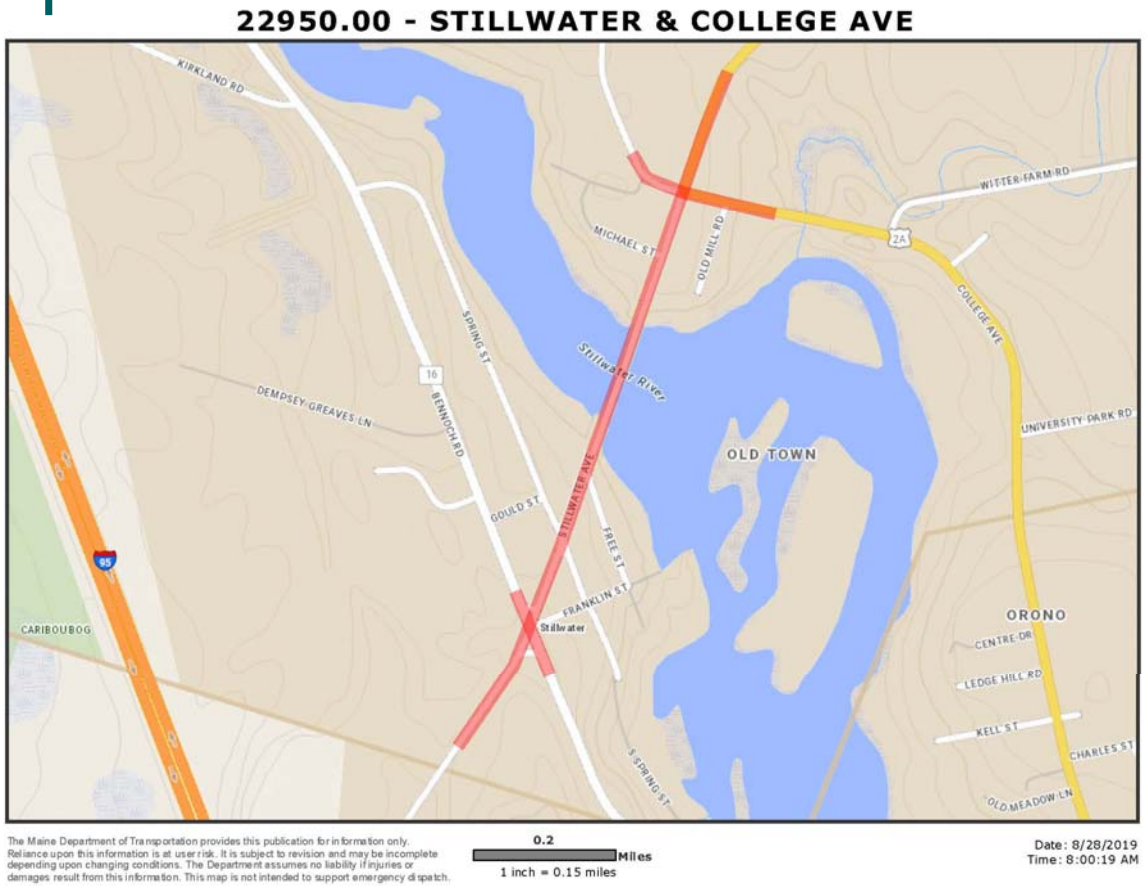
- BACTS Study Bennoch Road to College Avenue
- Spring 2016 – BACTS funds study for Stillwater Avenue (Bennoch to College Ave)
- Public meeting: January 18, 2017
- Public meeting: May 25, 2017
- Final study report: June 22, 2017
- Maine DOT kickoffs Highway/Intersection projects: April 2017

Old Town – Stillwater Ave

Preliminary Design Overview

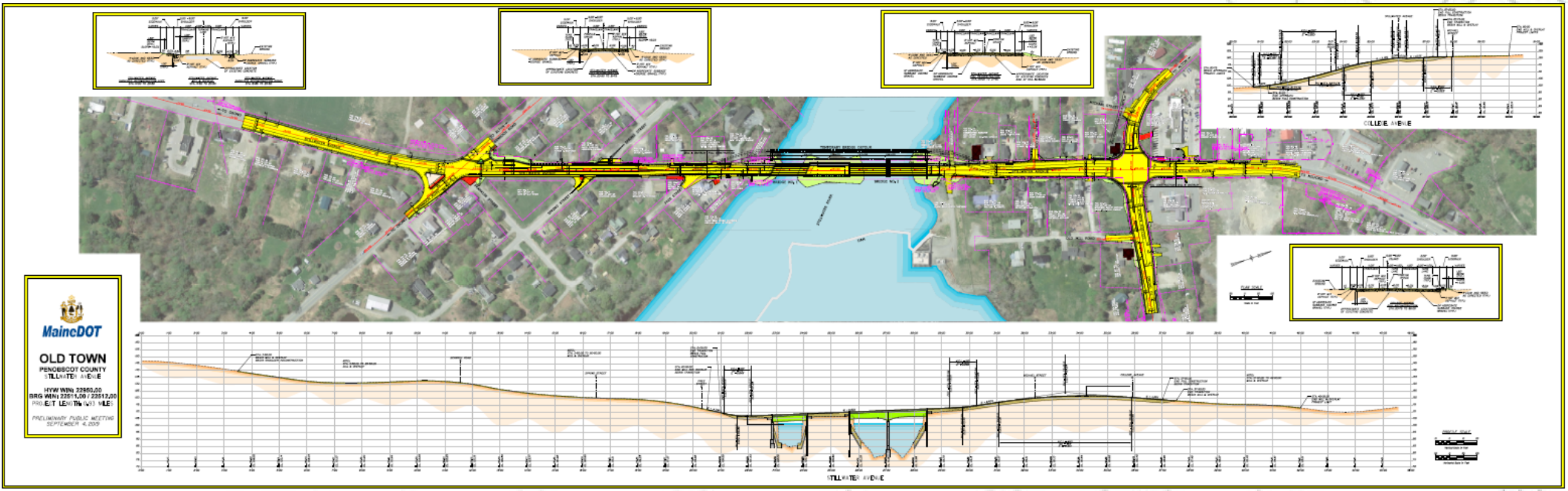
Old Town – Stillwater Ave

Location Map



Old Town – Stillwater Ave

Project Overview



Old Town – Stillwater Ave

Traffic Data

TRAFFIC DATA	STILLWATER AVE	COLLEGE AVE
Current (2023) AADT	16360(2023)	7860(2023)
Future (2043) AADT	18000(2043)	8900(2043)
DHV - % of AADT	11%	11%
Design Hour Volume	1980	979
% Heavy Trucks (AADT)	5%	3%
% Heavy Trucks (DHV)	3%	1%
Directional Distribution (DHV)	51%	57%
18 kip Equivalent P 2.0	362	78
18 kip Equivalent P 2.5	346	74
Design Speed (mph)	25	25
Functional Class	Minor Arterial	Minor Arterial
Highway Corridor Priority	2	2

Old Town – Stillwater Ave

Crash Data

- 84 crashes in the last 3 years (‘16-’18)
- 11% injury rate
- No high crash locations
- 71% of the crashes are rear end or side swipe
- The majority of the crashes happened due to following too closely
- 51% of the crashes happened during peak hours
  - 20% during AM Peak
  - 31% during PM Peak

Old Town – Stillwater Ave

Crash Data

- Bennoch Rd / Stillwater Ave Intersection - Crash Fatality on January 24th, 2019
- Pedestrian crossing Stillwater Ave was struck by a turning vehicle
- Will discuss ongoing design in more detail on future slides

Old Town WIN 022950.00

Preliminary Public Meeting

Highway and Intersection Improvements on Stillwater & College Ave

September 4, 2019

- Presented to

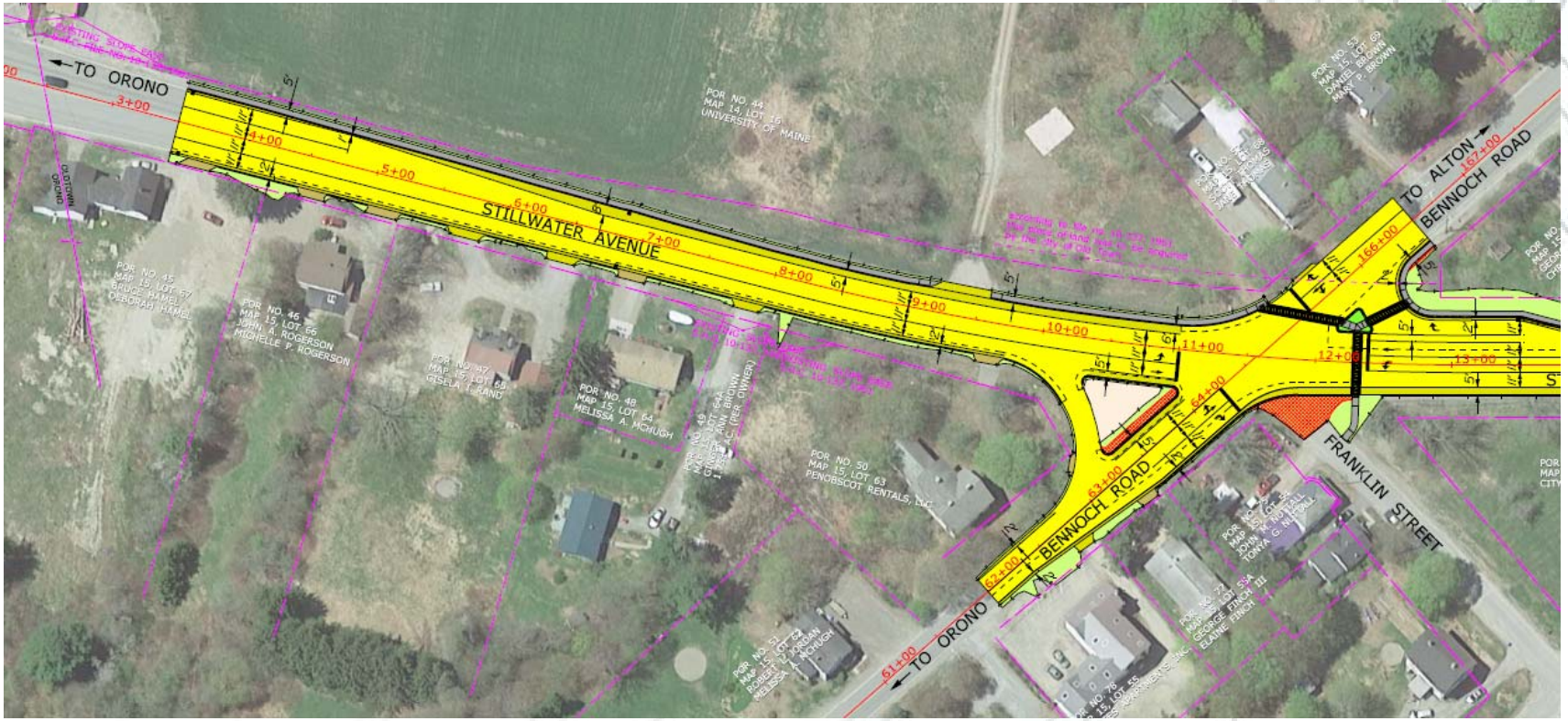
  Town of Old Town, ME

- Presented by

  MaineDOT & VHB

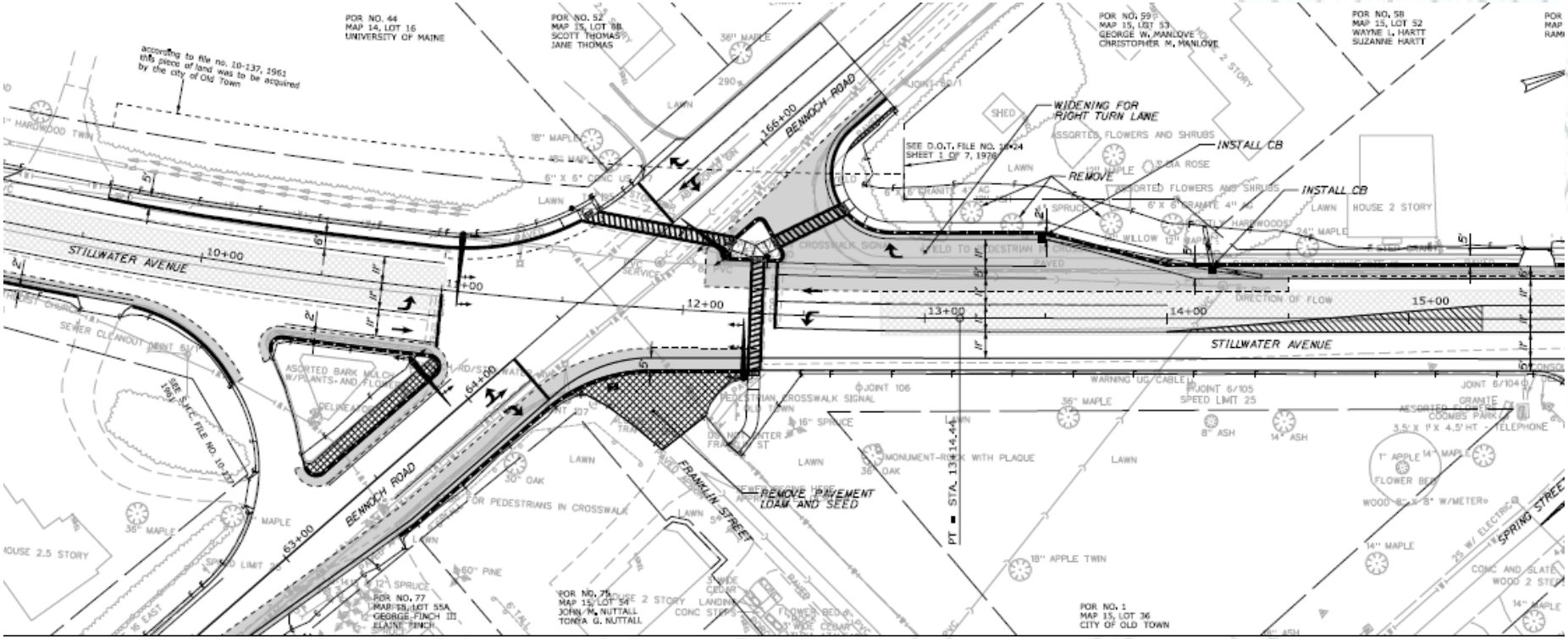
Stillwater & College Ave

Highway Overview – Orono TL to Bennoch Rd



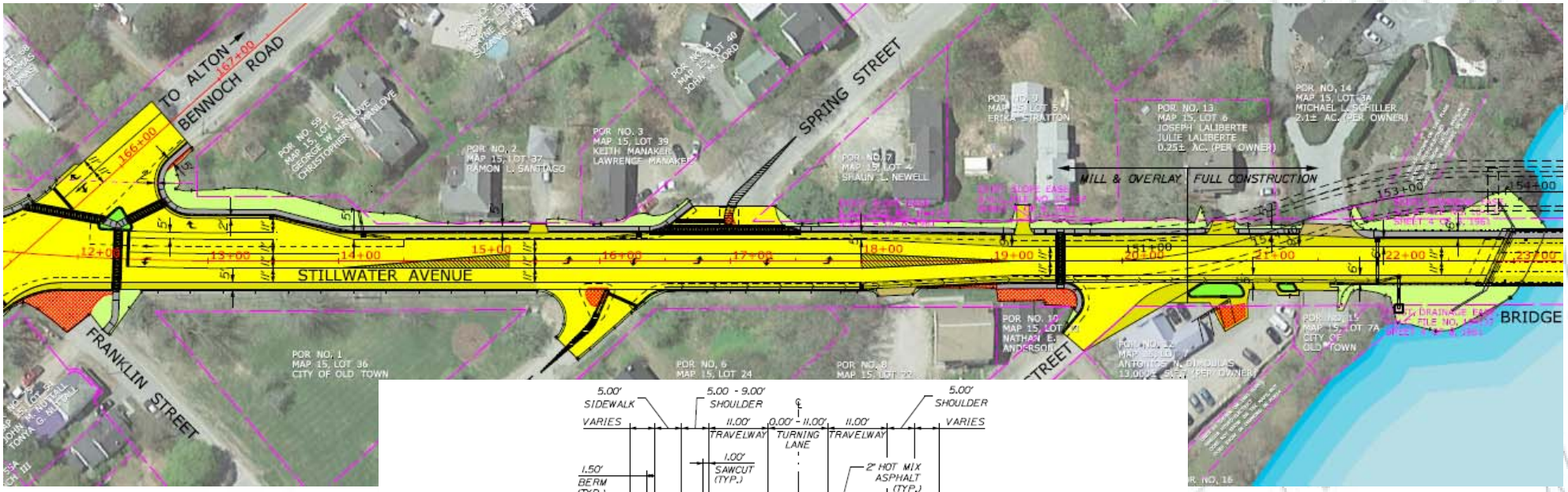
Stillwater & College Ave

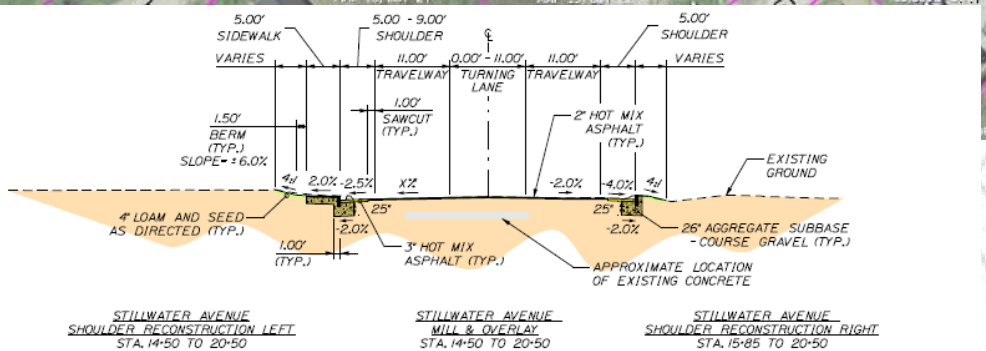
Highway Overview – Stillwater Ave/Bennoch Rd Intersection



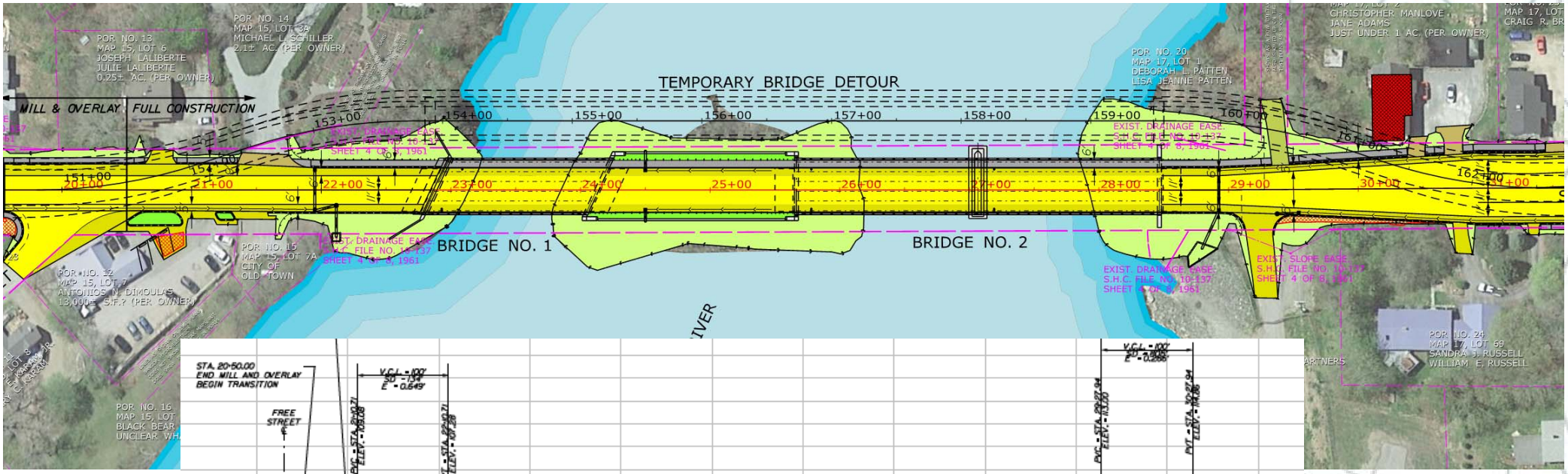
Stillwater & College Ave

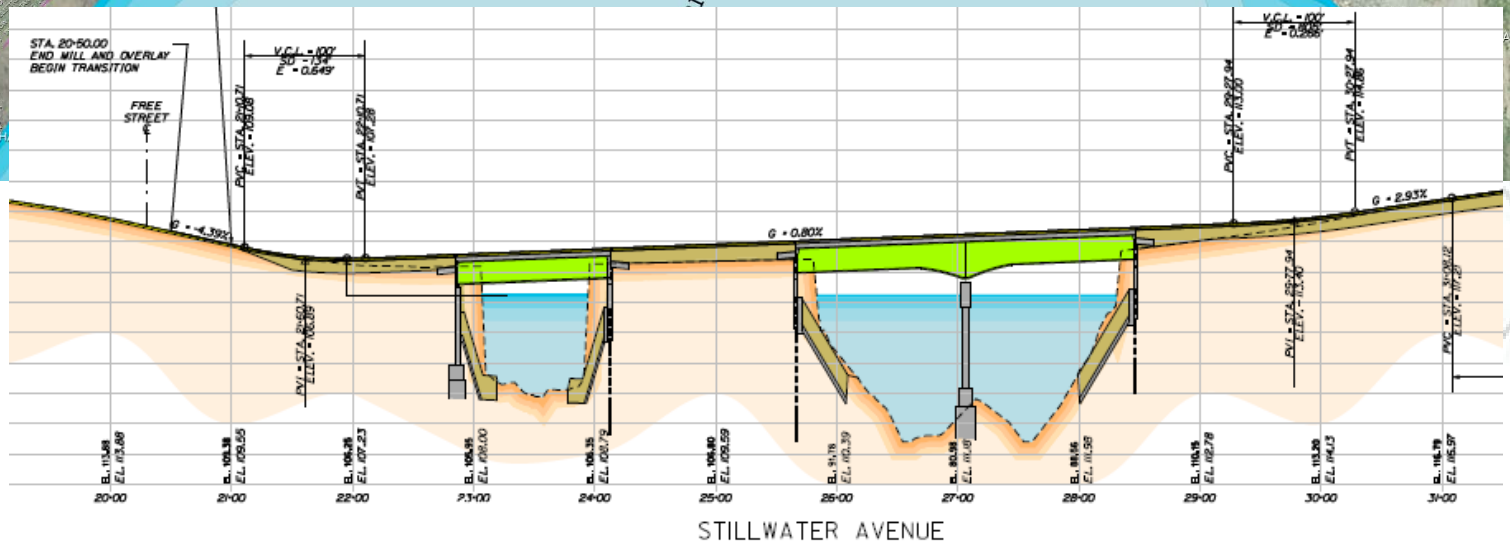
Highway Overview – Bennoch Rd to Bridge





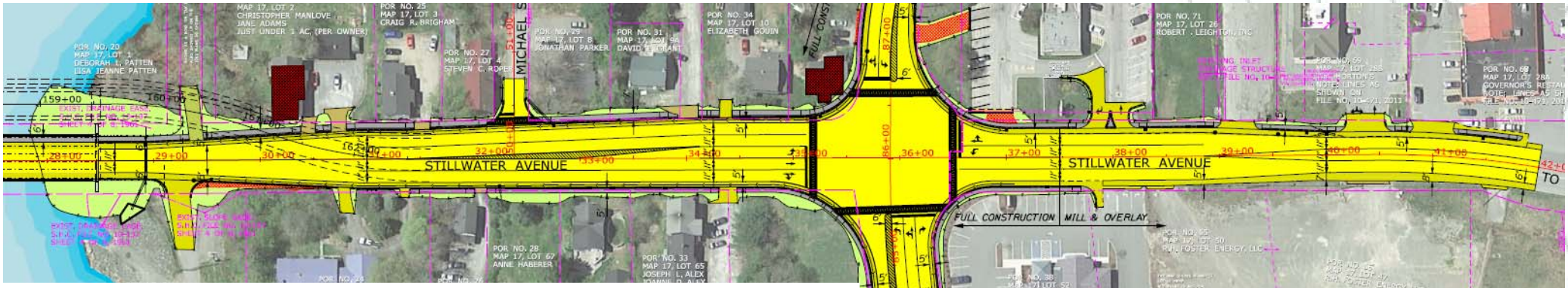
Stillwater & College Ave

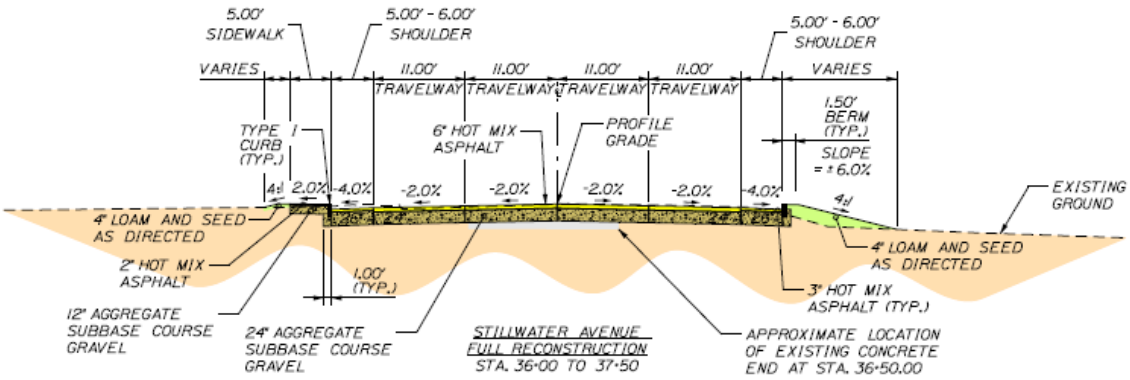




Stillwater & College Ave

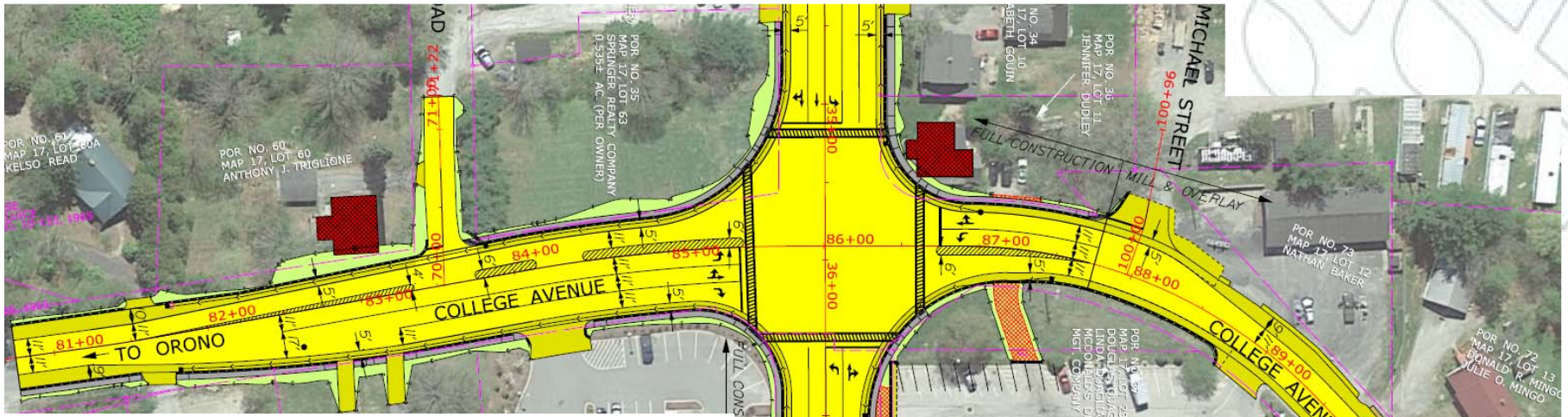
Highway Overview – Bridge to Governor's

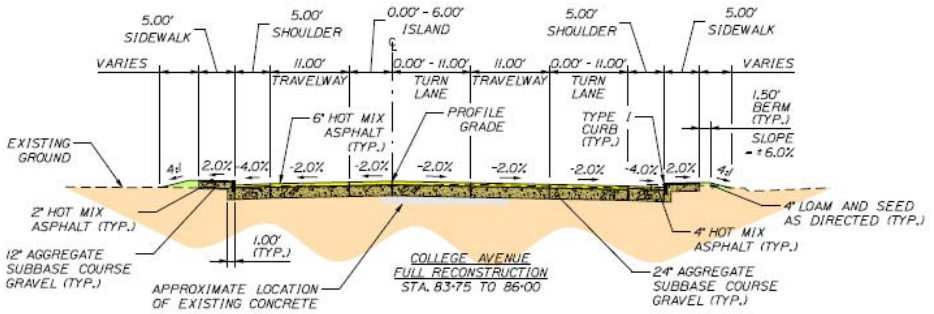




Stillwater & College Ave

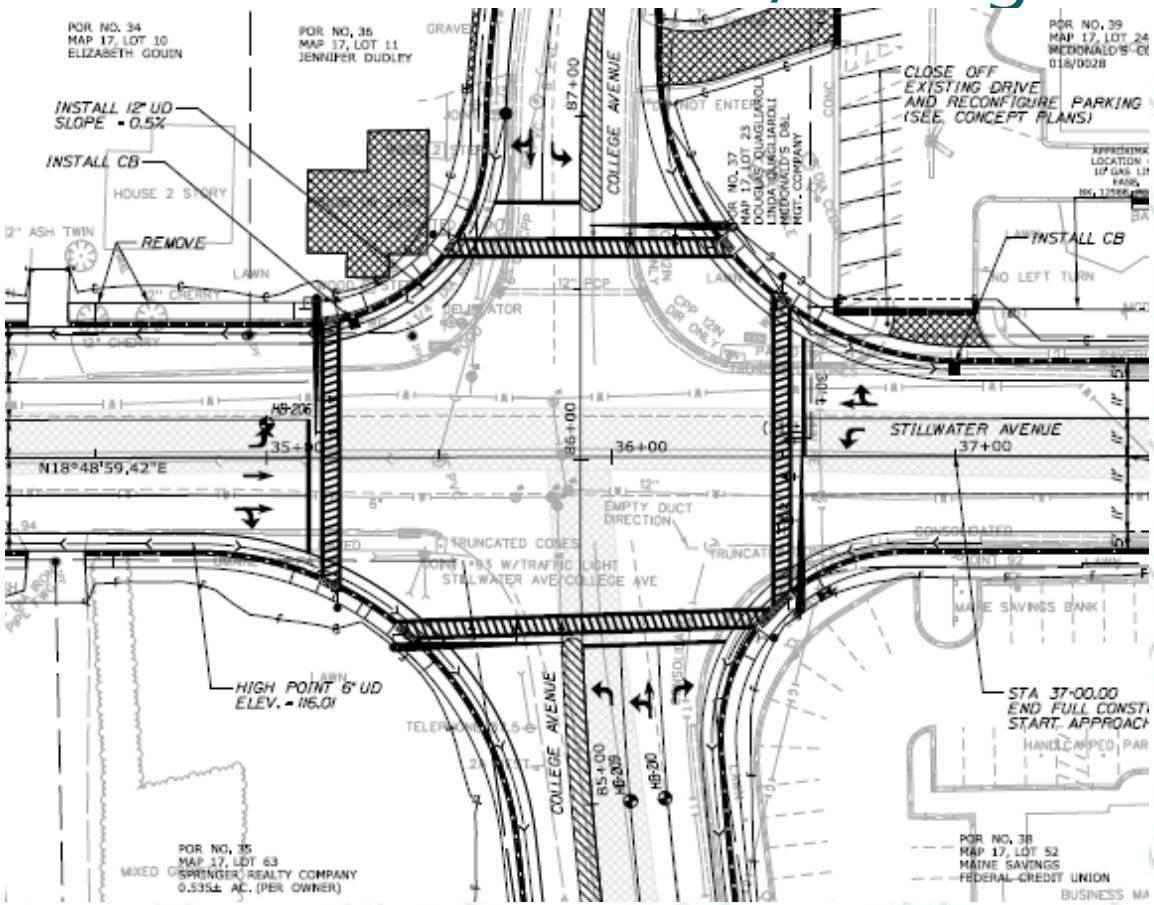
Highway Overview – College Ave





Stillwater & College Ave

Highway Overview– Stillwater Ave/College Ave Intersection



Old Town WIN 022511.00 & 022512.00

Preliminary Public Meeting

Stillwater Ave Bridges carrying Stillwater Ave over the Stillwater River

September 4, 2019

- Presented to

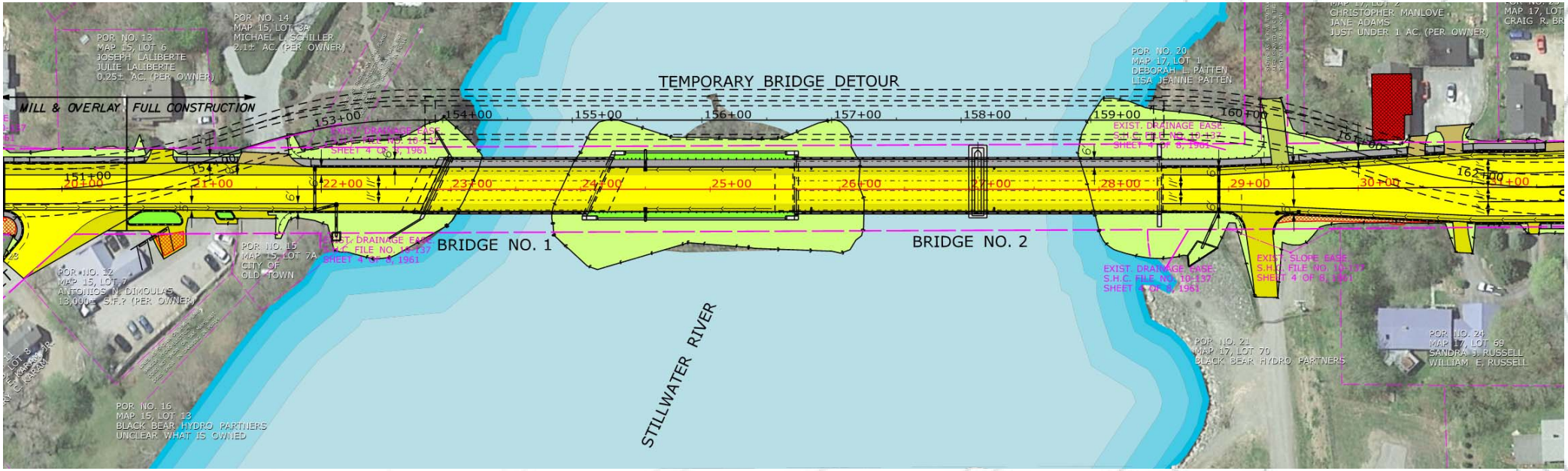
  Town of Old Town, ME

- Presented by

  MaineDOT & VHB

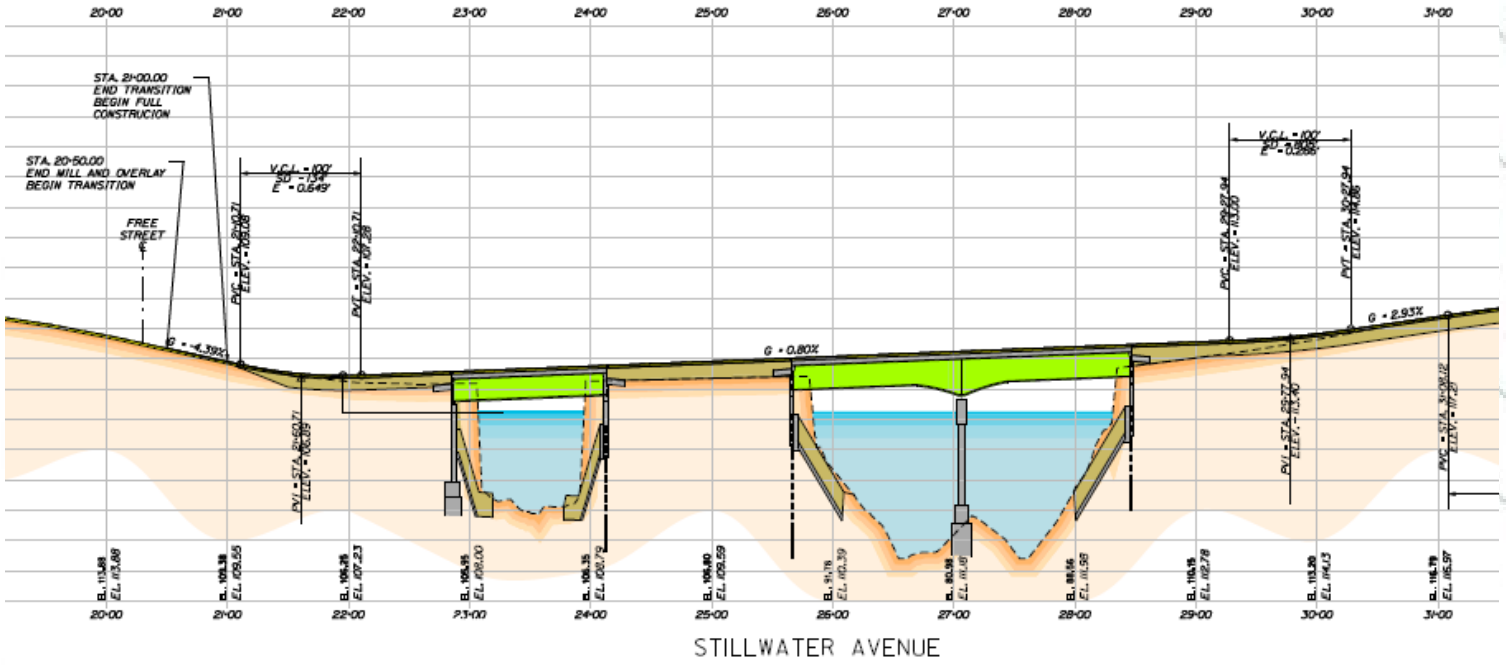
Stillwater Ave Bridges

Plan View



Stillwater Ave Bridges

Profile View



Stillwater Ave Bridges

Existing Bridge Conditions

- Bridges constructed in 1952
- Curb to Curb Width = 26’
- 5’ Sidewalk downstream side.

Bridge #1

Bridge #1

Stillwater Ave Bridges

Existing Bridge Conditions

- Bridge #1
  - Length = 85’-0”
  - Single span superstructure with painted rolled steel beams and concrete abutments on bedrock
- Bridge #2
  - Length = 250’-0”
  - Three span superstructure with painted rolled steel beams, concrete abutments founded on piles and concrete piers founded on bedrock

Bridge #2

Stillwater Ave Bridges

Existing Bridge Conditions

- Bridge decks are in poor condition with spalls with exposed rebar throughout the underside, patched concrete wearing surface spalls and failed joint seals.

Bridge #1

Bridge #1

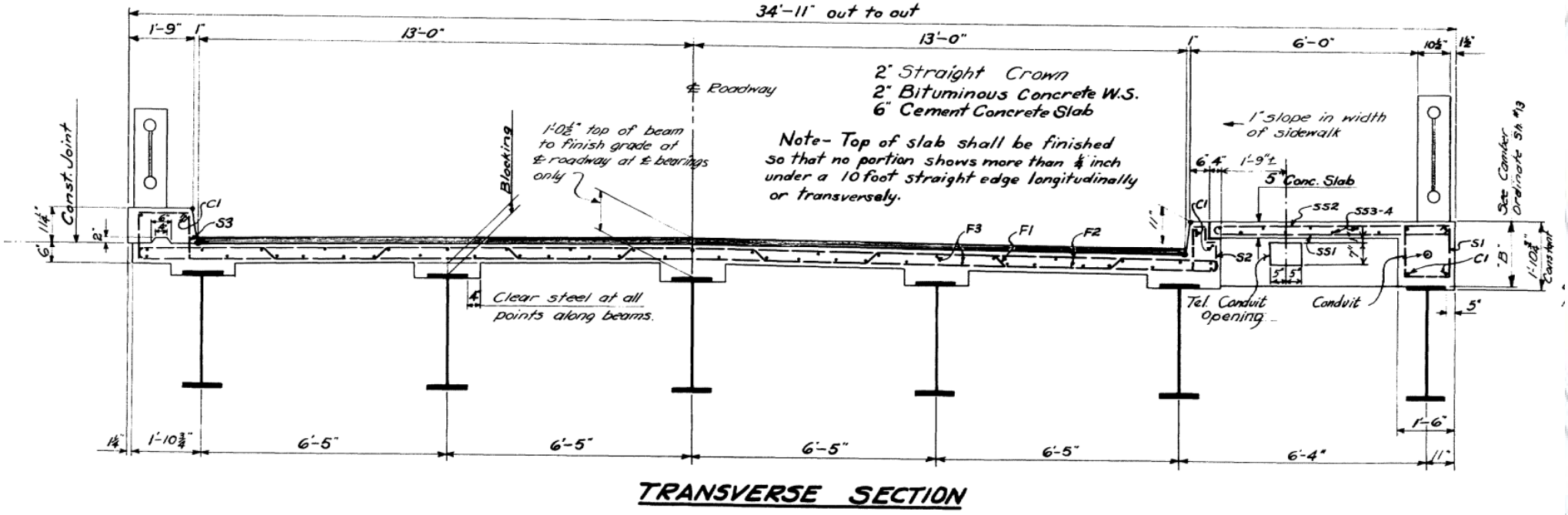
Bridge #2

Stillwater Ave Bridges

Existing Bridge Conditions

Stillwater Ave Bridges

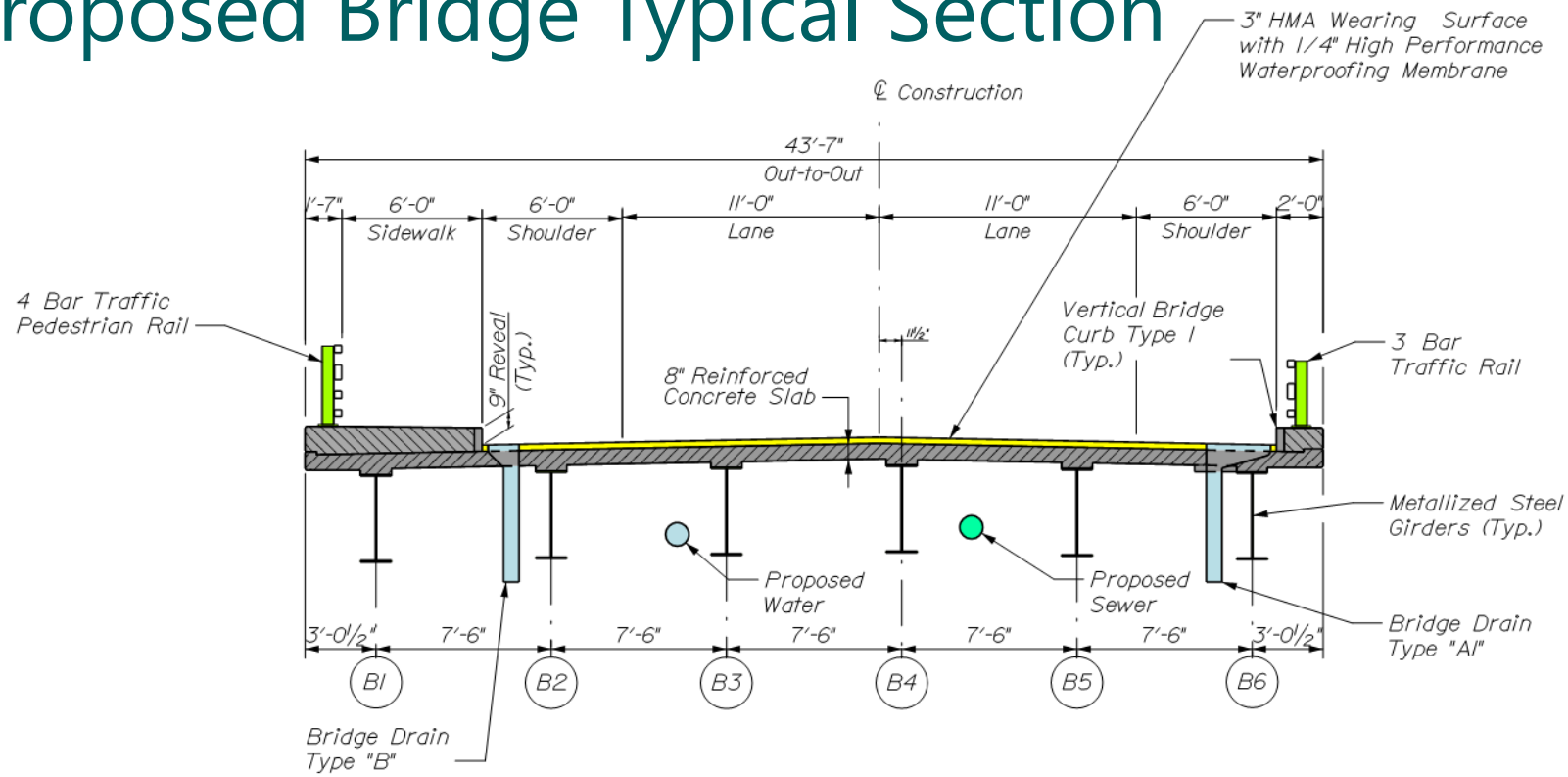
Existing Bridge Typical Section



TRANSVERSE SECTION

Stillwater Ave Bridges

Proposed Bridge Typical Section

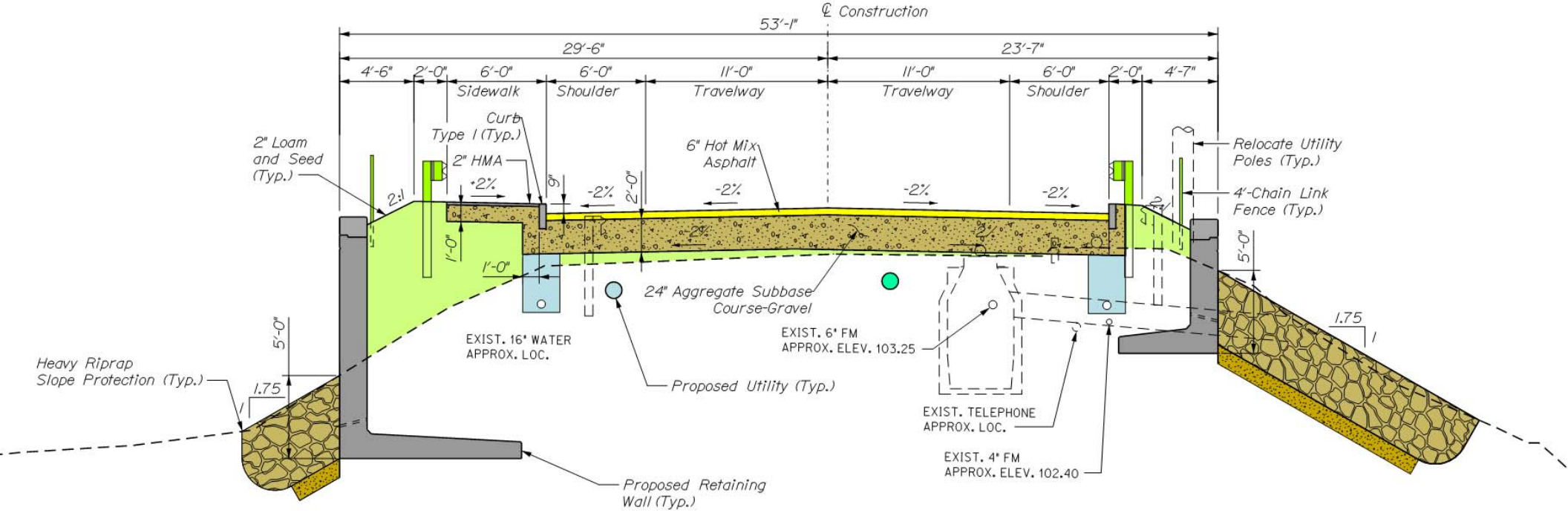


PROPOSED TYPICAL SECTION

Scale: 3/8" = 1'-0"

Stillwater Ave Bridges

Proposed Typical Section on Island

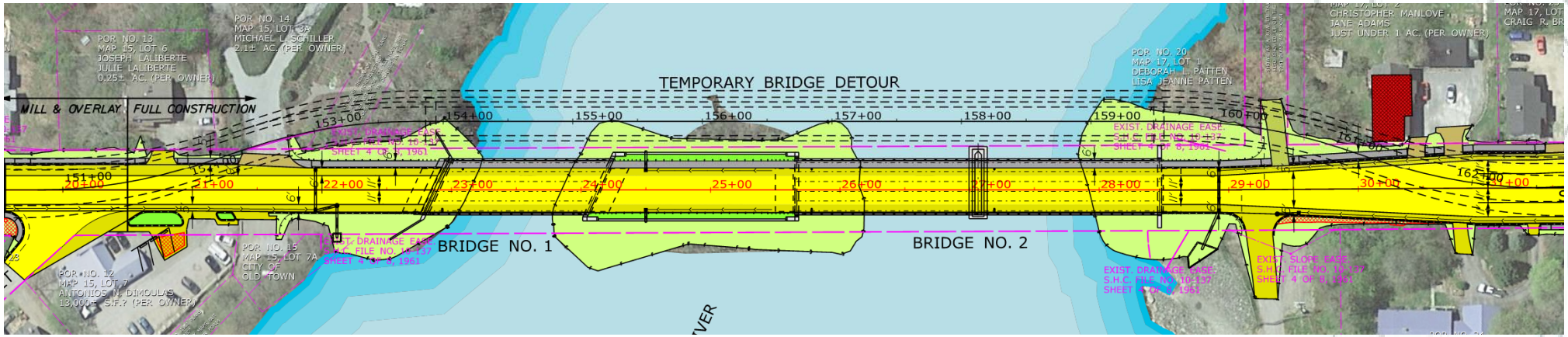


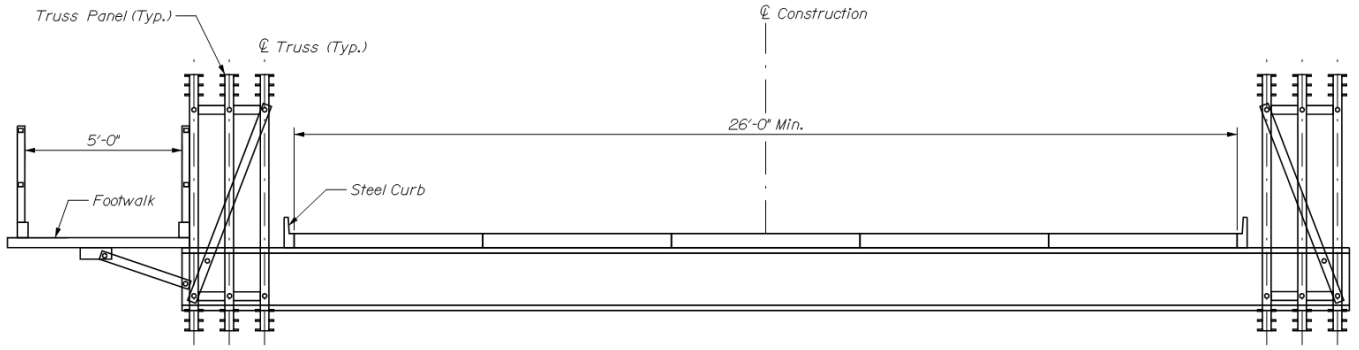
PROPOSED TYPICAL SECTION ON ISLAND

Not To Scale

Stillwater Ave Bridges

Maintenance of Traffic – Temporary Bridge Detour





TEMPORARY BRIDGE SECTION
Not To Scale

Stillwater Ave Bridges

Sample Temporary Bridge

Stillwater & College Ave

Project Timeline and Funding

Stillwater & College Ave

Questions and Answers