

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

DESIGN: Load and Resistance Factor Design per AASHTO LRFD
Bridge Design Specifications 2010 and interim specifications through 2010.

TRAFFIC DATA	SADDLEBACK BR. (WIN 19297.00)	ABBOTTS MILL BR. (WIN 18321.00)
Current (2012) AADT	1800	550
Future (2032) AADT	X	X
DHV - % of AADT	X%	X%
Design Hour Volume	X	X
Heavy Trucks (% of AADT)	X%	X%
Heavy Trucks (% of DHV)	X%	X%
Directional Distribution (% of DHV)	X%	X%
18 Kip Equivalent P 2.0	X	X
18 Kip Equivalent P 2.5	273	273
Design Speed (mph)	X	X

HYDROLOGIC DATA

Drainage Area	7.2	16.8 sq mi
Design Discharge (Q50)	1070	2263 cfs
Check Discharge (Q100)	1256	2640 cfs
Headwater Elevation (Q50)	1072.6	82.4 ft
Headwater Elevation (Q100)	1073.2	82.7 ft
Discharge Velocity (Q50)	10.7	8.6 fps
Discharge Velocity (Q100)	11.2	9.6 fps
Headwater Elevation (Q1.1)	1068.5	78.9 ft
Discharge Velocity (Q1.1)	6.0	2.6 fps
Headwater Elevation (Q25)	1072.0	82.1 ft

BASIC DESIGN STRESSES

CONCRETE:
Cable Mat f'c = 4.000 psi

SANDY RIVER PLANTATION
FRANKLIN COUNTY
SADDLEBACK BRIDGE
OVER
CASCADE STREAM
STATE ROUTE 4
STATE PROJECT NO. 019297.00
PROJECT LENGTH 0.0057 mi.
BRIDGE NO. 2735
&
RUMFORD
OXFORD COUNTY
ABBOTTS MILL BRIDGE
OVER
CONCORD RIVER
SOUTH RUMFORD ROAD
FEDERAL PROJECT NO. BH-1832(100)X
PROJECT LENGTH 0.0066 mi.
BRIDGE NO. 2010

LIST OF DRAWINGS

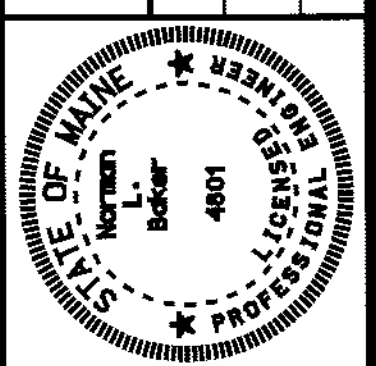
Title Sheet 1
Estimated Quantities and General Notes 2
General Plan & Profile 3-4

WIN 19297.00 & WIN 18321.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED
COMMISSIONER
CHIEF ENGINEER

DATE
8/17/12
8/17/12



SIGNATURE
P.E. NUMBER
DATE

4801
08/16/12

PROJECT INFORMATION

PROGRAM	BRIDGE PROGRAM
PROJECT MANAGER	B. CONDON
DESIGNER	D. REYNOLDS
CONSULTANT	TYLIN INTERNATIONAL
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SANDY RIVER PLT
SADDLEBACK BRIDGE &
RUMFORD
ABBOTTS MILL BRIDGE

TITLE SHEET

SHEET NUMBER

1

OF 4

PROJECT LOCATION:	Route 4 0.1m South of S. Shore Drive	S. Rumford Road 0.6m East of Junction with Route 232
PROGRAM AREA:	Bridge Program	Bridge Program
OUTLINE OF WORK:	Scour Countermeasure	Scour Countermeasure
UTILITIES:	Central Maine Power, Fairpoint Communications, Rangeley Water District	Central Maine Power, Fairpoint Communications, Time Warner Cable, Maine Fiber Company
MAINTENANCE OF TRAFFIC	Maintain Two-Way Traffic with Construction Warning Signs and Temporary Flaggers	Maintain Alternating One-Way Traffic with Construction Warning Signs and Temporary Flaggers

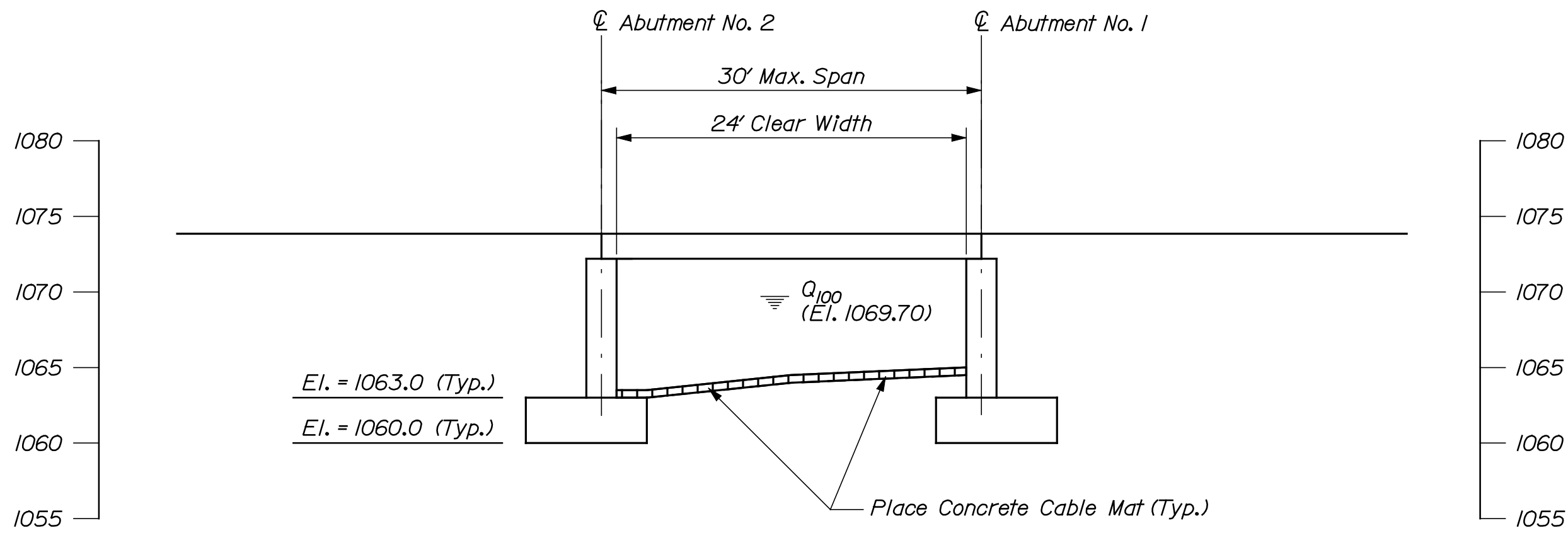
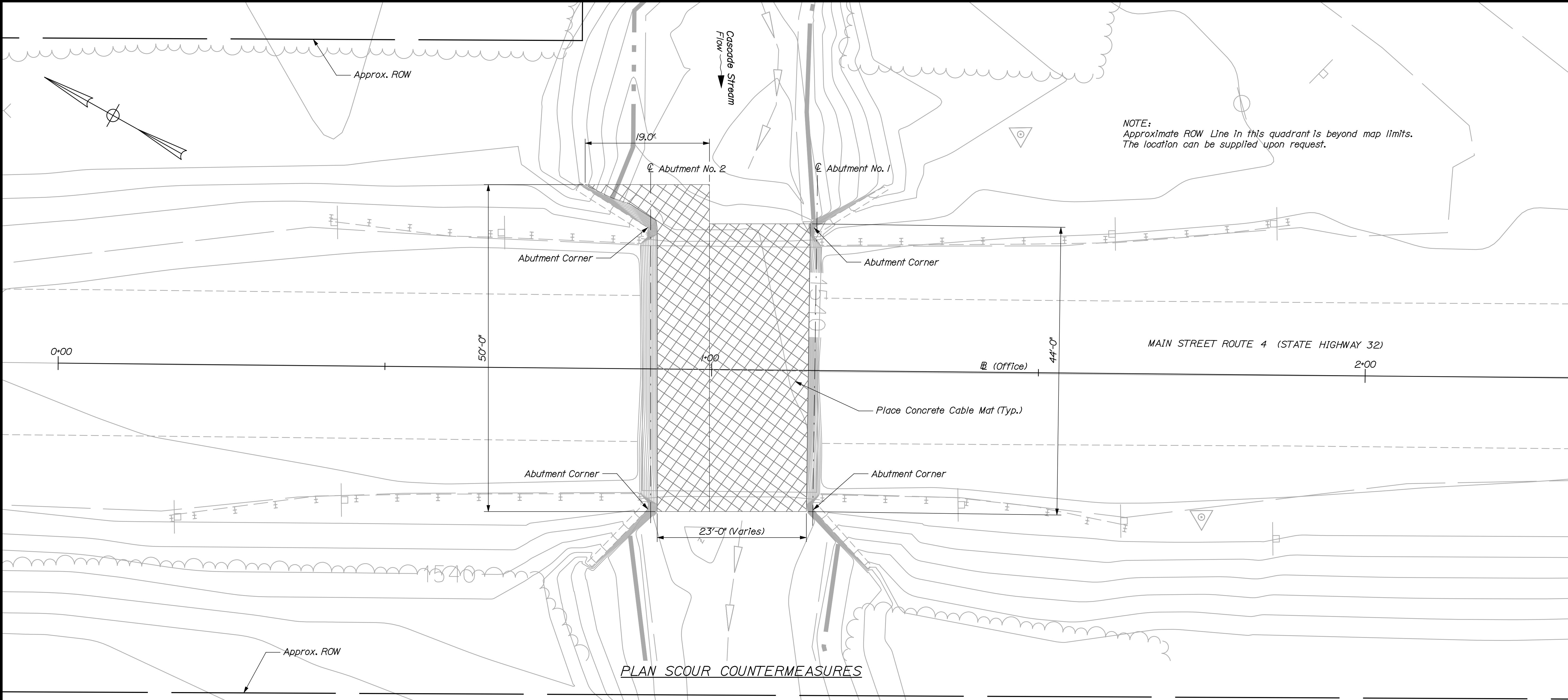
TYLININTERNATIONAL

											
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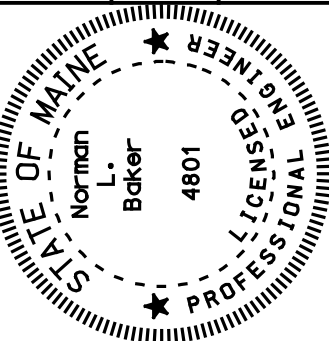
1. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
2. For easements, construction limits, and right-of-way lines, refer to Plans.
3. The exact limits for any required clearing will be established in the field by the Resident. Payment for clearing will be considered incidental to related Contract Items.
4. Quantities included for pay items measured and paid for by lump sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:
 - a. If a lump sum pay item is eliminated, the requirements of standard specifications Section 109.2, Elimination of Item, will take precedence.
 - b. If other Contract Documents specifically allow a change in payment for a lump sum pay item, those requirements will be followed.
 - c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.
5. Payment for the removal, storage and replacement of the stream bed material will be paid for under Item No. 203.20 Common Excavation. Blending and wasting of excess stream bed material along the channel base will be considered incidental to Item No. 502.83 Concrete Cable Mat. No separate payment shall be made.
6. Prior to submitting a bid the contractor shall conduct a site inspection.
7. Contractor shall adhere to restrictions or additional requirements of applicable environmental permits for this Project.
8. Construction vehicles and other equipment that will, as approved by the Resident, be entering the contained range of the stream bed shall be washed to remove oils, grease, and other fluids prior to entering.
9. Stream bed material shall be excavated from the countermeasure area so that the finish surface elevation of the countermeasure is at the existing stream channel elevation prior to installation. Such stream bed material removed shall either be stockpiled above and outside the channel banks or distributed evenly along the channel both upstream and downstream of the bridge.
10. Installation and placement of Concrete Cable mat systems shall start from the downstream end of mat system area and progress upstream.
11. All work shall be executed within the existing Right of Way and existing easements shown on the plans.
12. For the Abbott's Mill Bridge (WIN 18321.00), the Contractor will be allowed the temporary closure of one travel lane and maintenance of alternating one-way traffic across the bridge. Two-way traffic shall be re-established at the end of each construction day.
13. For the Saddleback Bridge (WIN 19297.00), the Contractor shall maintain two lanes of traffic at all times with minimal impacts to traffic as directed by the Resident.
14. Contractor shall field verify stream bed elevations along the upstream bridge fascia, downstream bridge fascia and along the centerline of the bridge. Streambed elevations shall be taken every 5 feet along all three lines and provided to the Resident. Resident will determine final streambed elevation(s) based on this information. This work shall not be paid for directly and will be considered incidental to related contract items.

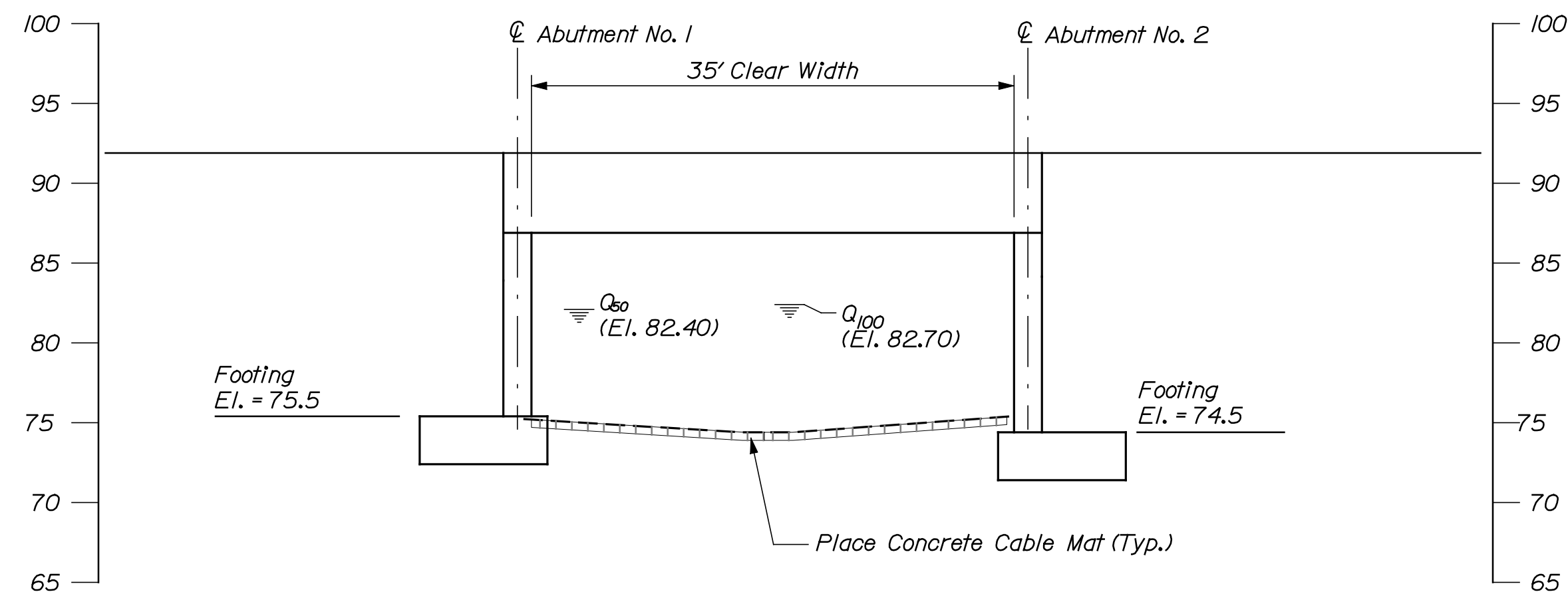
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NOTE:
Approximate ROW Line in this quadrant is beyond map limits.
The location can be supplied upon request.

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		BRIDGE NO. 2735 WIN 19297.00 BRIDGE PLANS	
		SIGNATURE Norman L. Baker P.E. NUMBER 4801 DATE 8/16/12	
STATE ROUTE 4 CASCADE STREAM SANDY RIVER PLANTATION FRANKLIN COUNTY		SHEET NUMBER 3 OF 4	
GENERAL PLAN & ELEVATION		TYLIN INTERNATIONAL	



TY·LIN INTERNATIONAL