



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
16 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0016

Janet T. Mills  
GOVERNOR

Bruce A. Van Note  
COMMISSIONER

June 28, 2023  
Subject: Replacement of signals on Route 1  
State WIN: 022823.00  
Location: **Arundel**  
**Amendment No. 1**

Dear Sir/Ms.:

The following questions have been received:

**Question:** Please Provide the plan sheets for the intersection @ Rt. 1 & Limerick Rd.

**Response:** See the attached Plan set

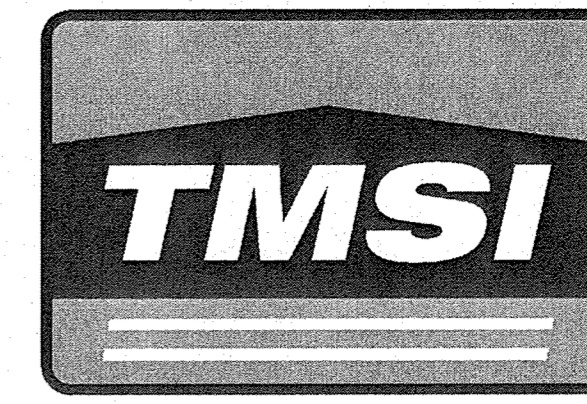
Consider these changes and information prior to submitting your bid on **July 12, 2023**.

Sincerely,

A handwritten signature in blue ink that reads "George Macdougall".

George M. A. Macdougall P.E.  
Contracts & Specifications Engineer

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION

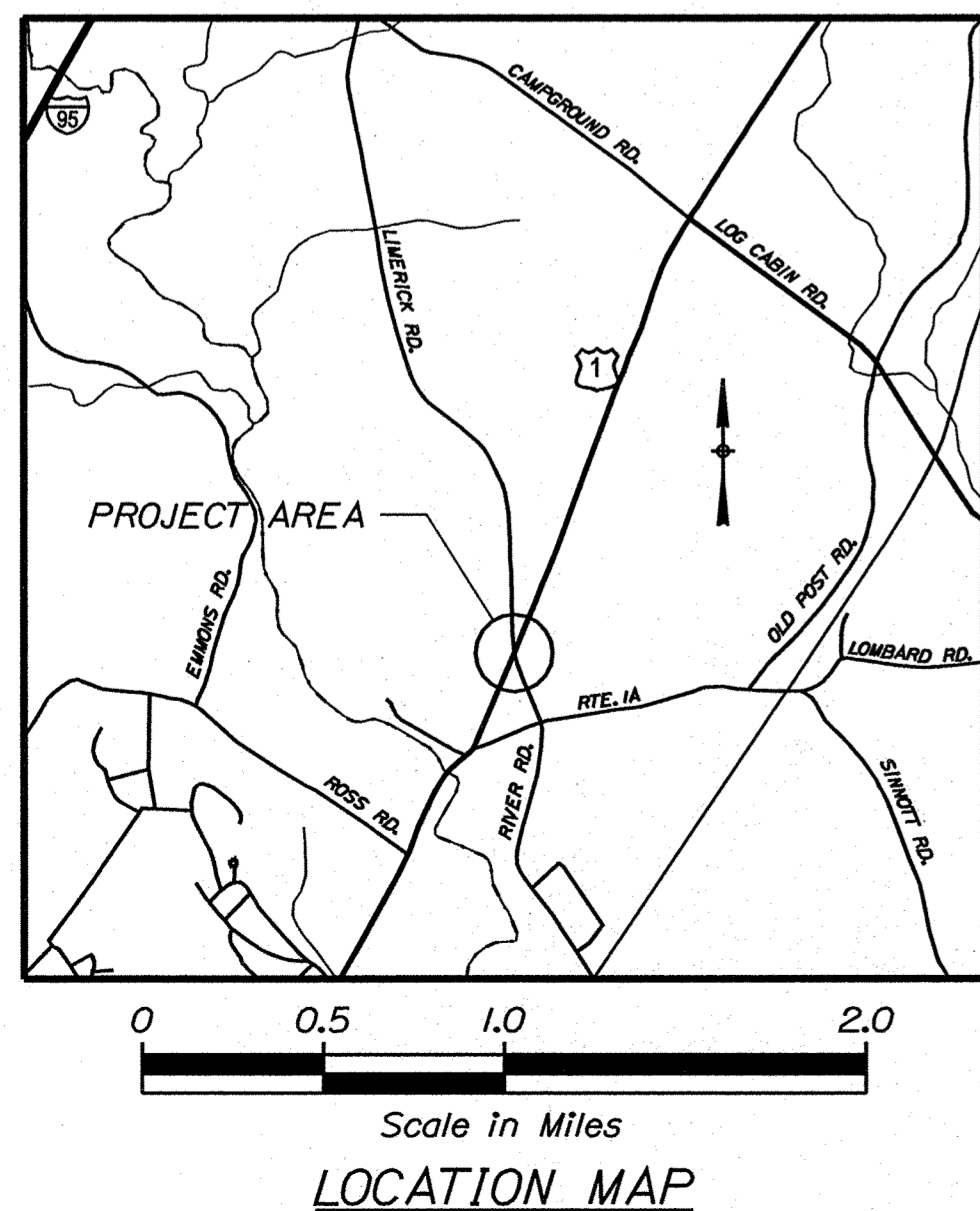
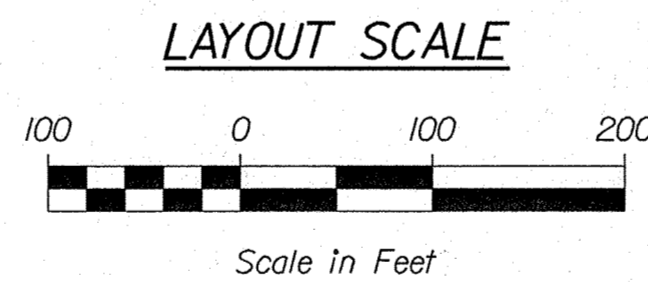
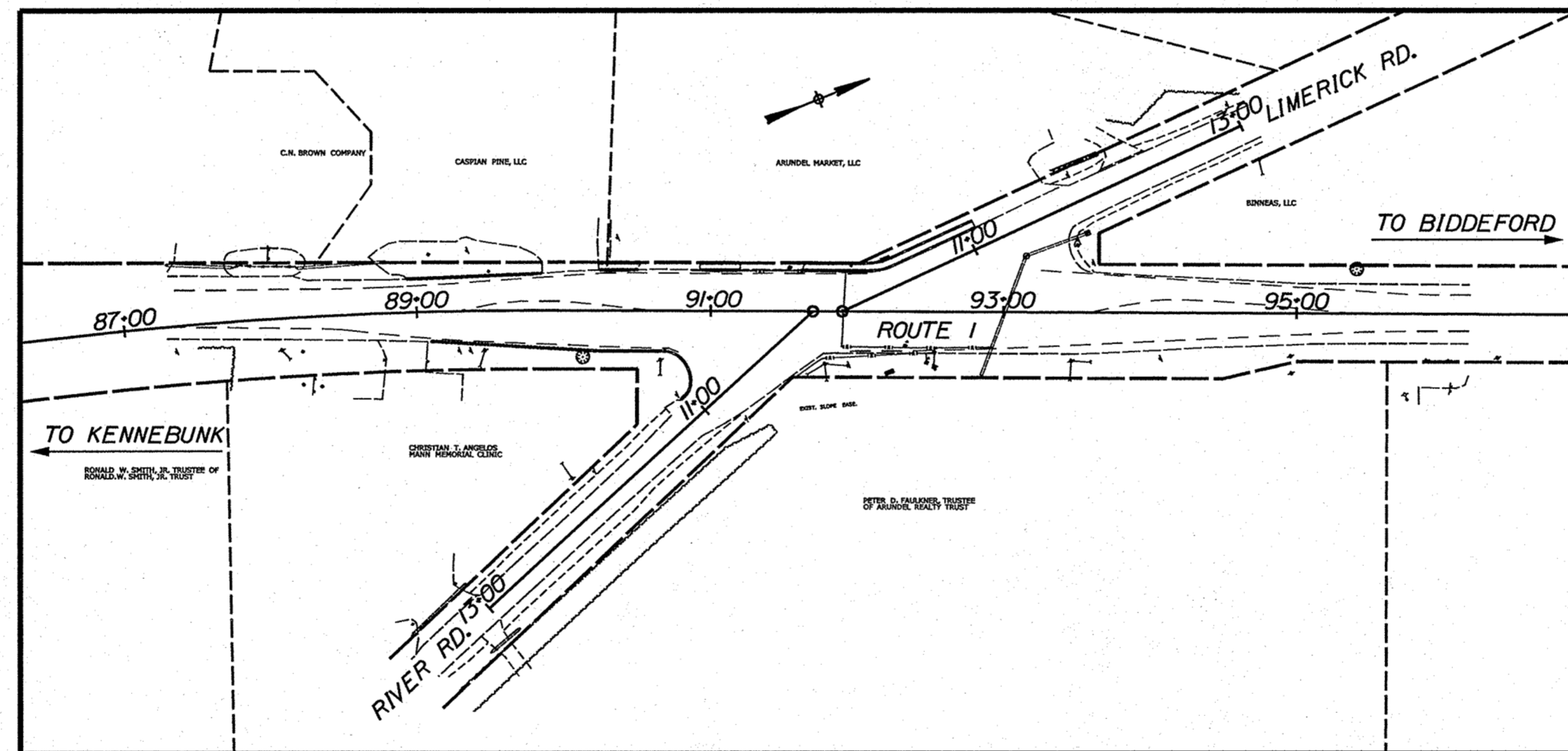


## ARUNDEL YORK COUNTY

U.S. ROUTE 1/LIMERICK RD./RIVER RD.  
**STATE PROJECT 23509.00**  
PROJECT LENGTH : 0.00 MILE

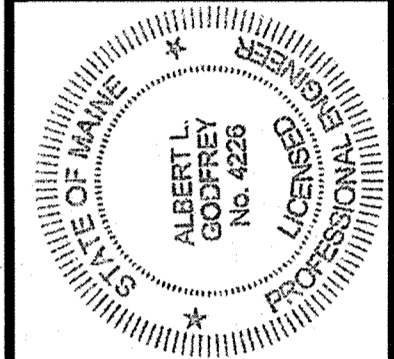
Description	Sheet No.
Title Sheet .....	1
Signal Plan .....	2
Signal Notes and Details .....	3
Strain Pole Foundation & Boring Location Plan with Boring Logs .....	4
Right of Way Plan .....	5

PLAN LEGEND	
Town, County, State _____	Catch Basins <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px;"></span> Existing <span style="border: 1px solid black; display: inline-block; width: 10px; height: 10px; background-color: black;"></span> Proposed
Property Lines - - - - -	Manholes <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Existing <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px; background-color: black;"></span> Proposed
R/W Lines-Existing - - - - -	Proposed Underdrain - - - - -
R/W Lines-Proposed - - - - -	Proposed Ditch - - - - -
Culvert-Existing - - - - -	Existing Ditch - - - - -
Culvert Proposed - - - - -	Utility Poles <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Existing <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px; background-color: black;"></span> Proposed
Curbing Existing Proposed	Fire Hydrants <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Existing <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px; background-color: black;"></span> Proposed
Type 1 - - - - -	Existing Water Line - - - - -
Type 3 - - - - -	Existing San. Sewer - - - - -
Type 5 - - - - -	Existing San. Sewer Manhole <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span>
Outline of Bodies of Water - - - - -	Guardrail-Existing - - - - -
Exposed Bedrock - - - - -	Guardrail-Proposed - - - - -
Buildings - - - - -	Guardrail-Cable, Other - - - - -
Trees <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Conifer <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> Deciduous	Centerline-Existing - - - - -
Tree Line - - - - -	Centerline-Proposed - - - - -
Clearing Limit Line - - - - -	Travelway-Existing - - - - -
Railroad - - - - -	Travelway-Proposed - - - - -
Boring <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> HB-XXX-###	Probe <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> P-#. #X
Pavement Core <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> PC-#	#.# = Depth
Test Pit <span style="border: 1px solid black; border-radius: 50%; display: inline-block; width: 10px; height: 10px;"></span> TP-XXX-###	X = W (Weathered Rock)
	R (Refusal)
	NR (No Refusal)



<b>PROJECT LOCATION:</b>	INTERSECTION OF U.S. ROUTE 1, LIMERICK RD. AND RIVER RD. IN ARUNDEL
<b>PROGRAM AREA:</b>	MULTIMODAL
<b>SCOPE OF WORK:</b>	TRAFFIC SIGNAL

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER: <i>[Signature]</i>	<i>[Signature]</i>	6-9-23
CHIEF ENGINEER: <i>[Signature]</i>		6-8-2023



SIGNATURE	P.E. NUMBER	DATE
<i>[Signature]</i>	4226	1/31/23

PROJECT INFORMATION		
PROGRAM	MULTIMODAL	
PROJECT MANAGER	B. KEETZER	
DESIGNER	A. GODFREY	
CONSULTANT	TMSI	
PROJECT RESIDENT		
CONTRACTOR		
PROJECT COMPLETION DATE		

ARUNDEL  
U.S. ROUTE 1/LIMERICK RD./RIVER RD.  
**TITLE SHEET**

SHEET NUMBER  
**1**  
OF 5

023509.00 2350900

Date: 1/29/2023

Username: moirin

Division: HIGHWAY

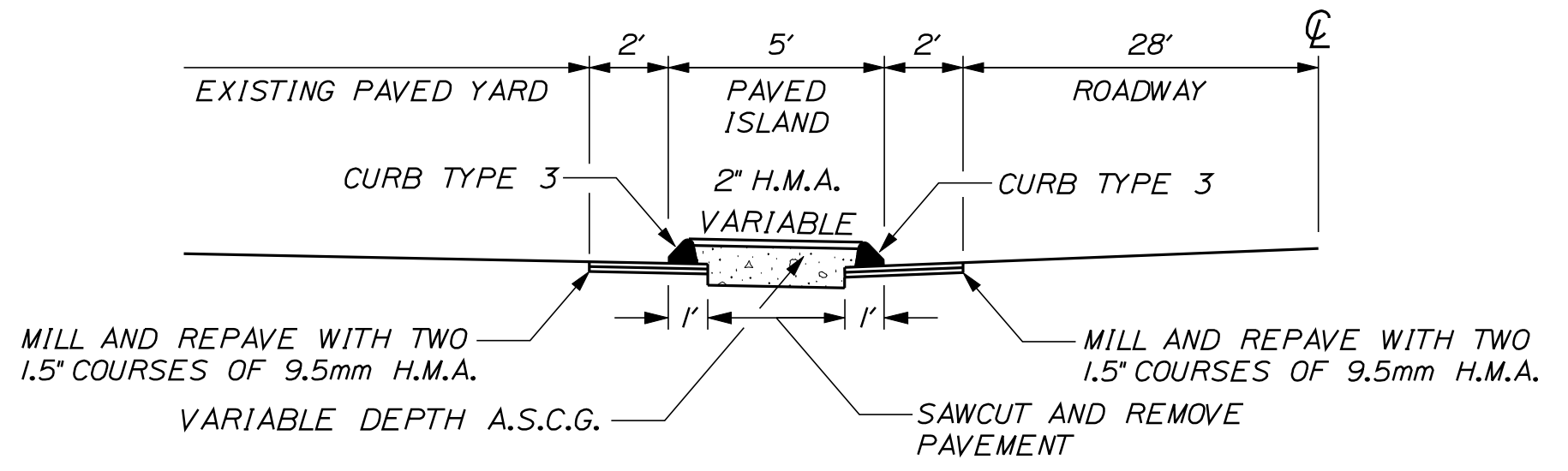
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Date: 2/2/2023

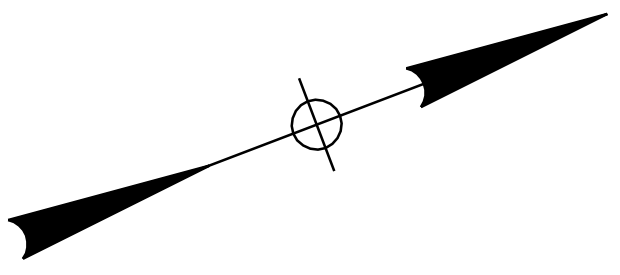
Username: morin

Division: HIGHWAY

Filename: ... \DCNV002\_Signal Plan.dgn

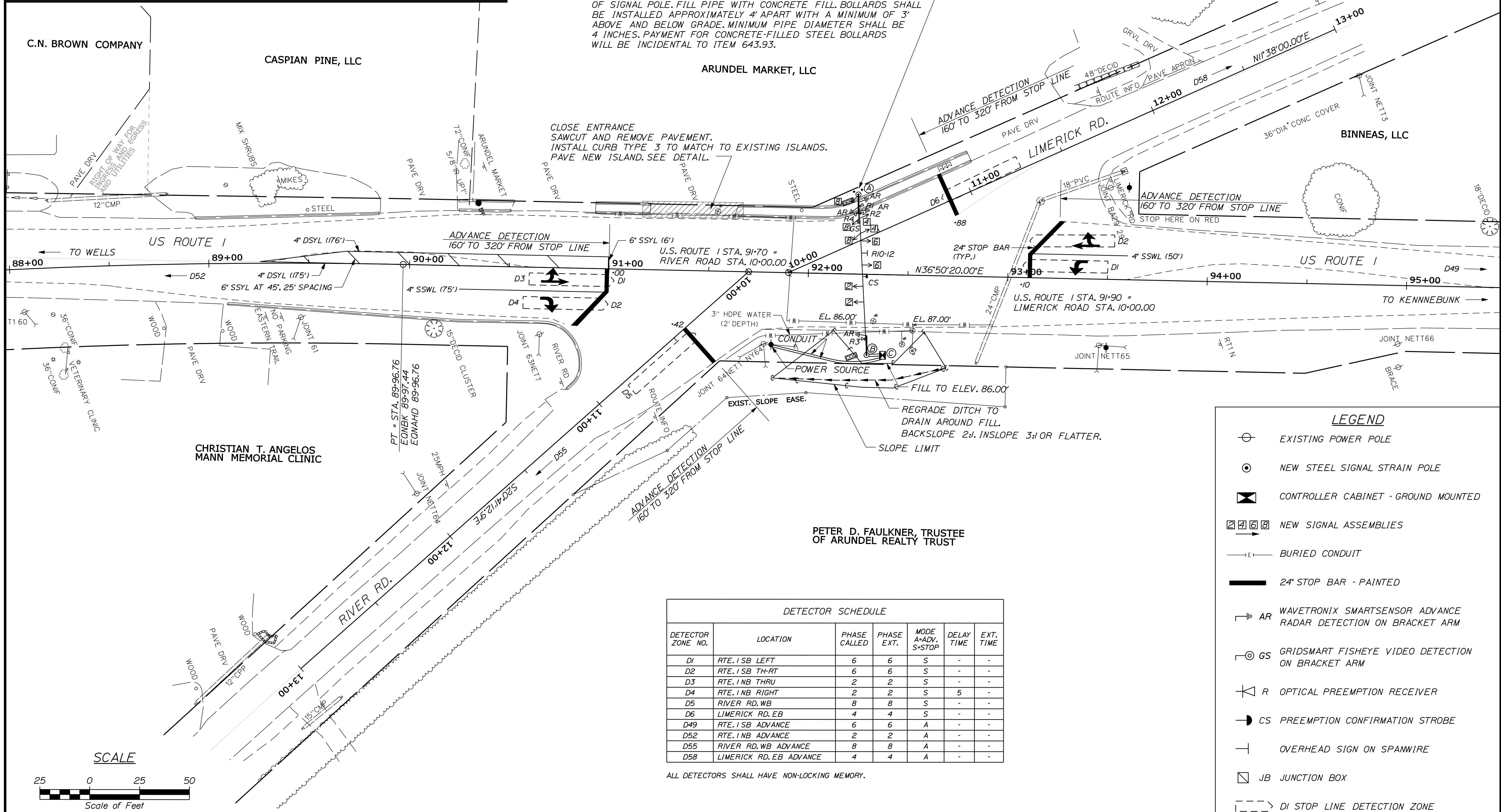


ENTRANCE CLOSURE ISLAND (NOT TO SCALE)



INSTALL 2 GALVANIZED STEEL PIPE BOLLARDS FOR PROTECTION OF SIGNAL POLE. FILL PIPE WITH CONCRETE FILL. BOLLARDS SHALL BE INSTALLED APPROXIMATELY 4' APART WITH A MINIMUM OF 3' ABOVE AND BELOW GRADE. MINIMUM PIPE DIAMETER SHALL BE 4 INCHES. PAYMENT FOR CONCRETE-FILLED STEEL BOLLARDS WILL BE INCIDENTAL TO ITEM 643.93.

CLOSE ENTRANCE SAWCUT AND REMOVE PAVEMENT. INSTALL CURB TYPE 3 TO MATCH TO EXISTING ISLANDS. PAVE NEW ISLAND. SEE DETAIL.



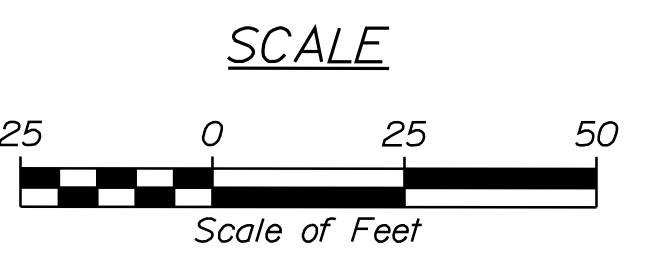
**LEGEND**

- EXISTING POWER POLE
- NEW STEEL SIGNAL STRAIN POLE
- CONTROLLER CABINET - GROUND MOUNTED
- NEW SIGNAL ASSEMBLIES
- BURIED CONDUIT
- 24" STOP BAR - PAINTED
- WAVETRONIX SMARTSENSOR ADVANCE RADAR DETECTION ON BRACKET ARM
- GRIDSMArt FISHEYE VIDEO DETECTION ON BRACKET ARM
- OPTICAL PREEMPTION RECEIVER
- PREEMPTION CONFIRMATION STROBE
- OVERHEAD SIGN ON SPANWIRE
- JB JUNCTION BOX
- DI STOP LINE DETECTION ZONE

DETECTOR SCHEDULE

DETECTOR ZONE NO.	LOCATION	PHASE CALLED	PHASE EXT.	MODE A=ADV. S=STOP	DELAY TIME	EXT. TIME
D1	RTE. 1 SB LEFT	6	6	S	-	-
D2	RTE. 1 SB TH-RT	6	6	S	-	-
D3	RTE. 1 NB THRU	2	2	S	-	-
D4	RTE. 1 NB RIGHT	2	2	S	5	-
D5	RIVER RD. WB	8	8	S	-	-
D6	LIMERICK RD. EB	4	4	S	-	-
D49	RTE. 1 SB ADVANCE	6	6	A	-	-
D52	RTE. 1 NB ADVANCE	2	2	A	-	-
D55	RIVER RD. WB ADVANCE	8	8	A	-	-
D58	LIMERICK RD. EB ADVANCE	4	4	A	-	-

ALL DETECTORS SHALL HAVE NON-LOCKING MEMORY.



STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION

02350900  
WIN 23509.00  
HIGHWAY PLANS

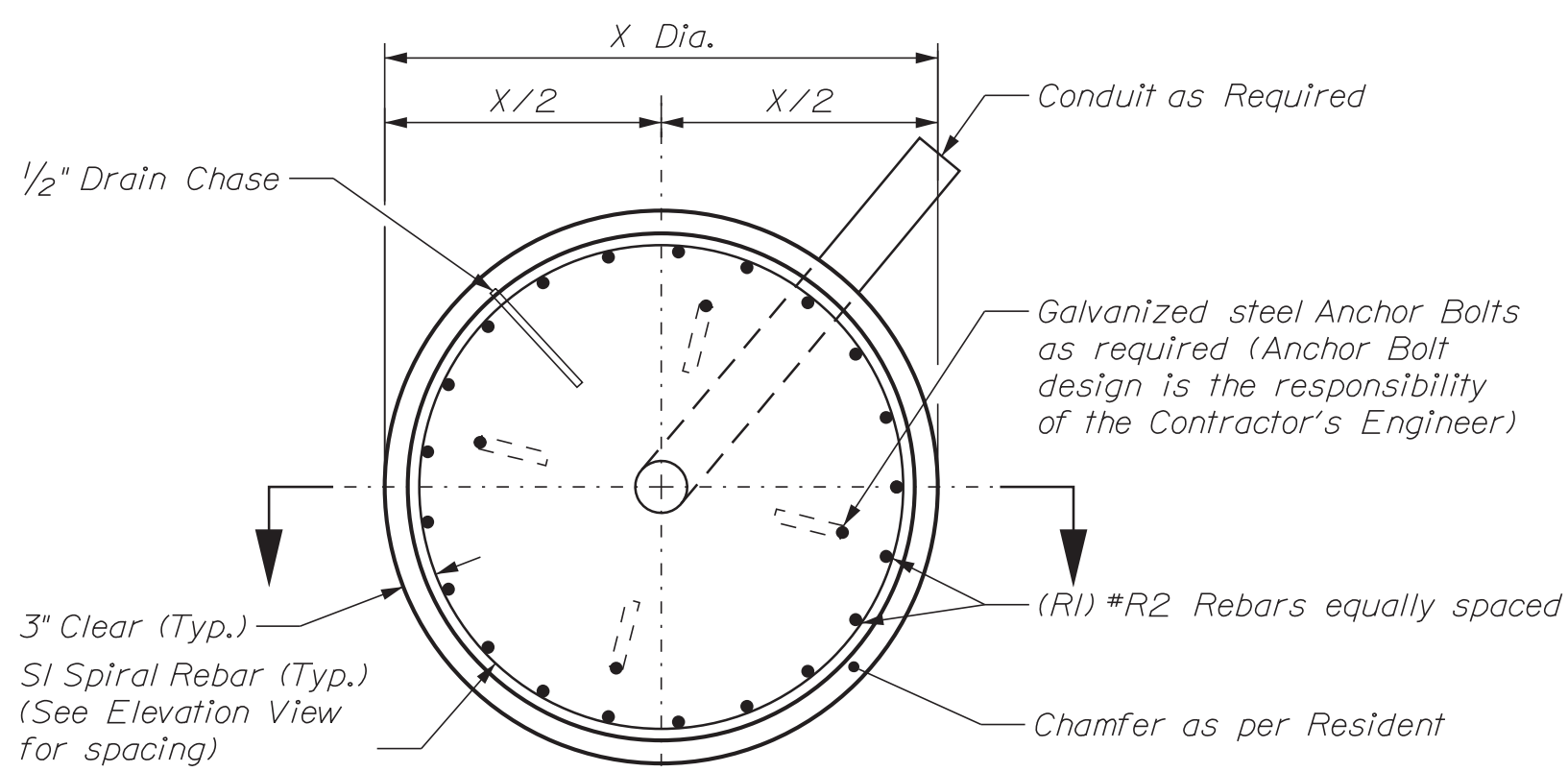
ARUNDEL  
U.S. ROUTE 1/LIMERICK RD./RIVER RD.

SIGNAL PLANS

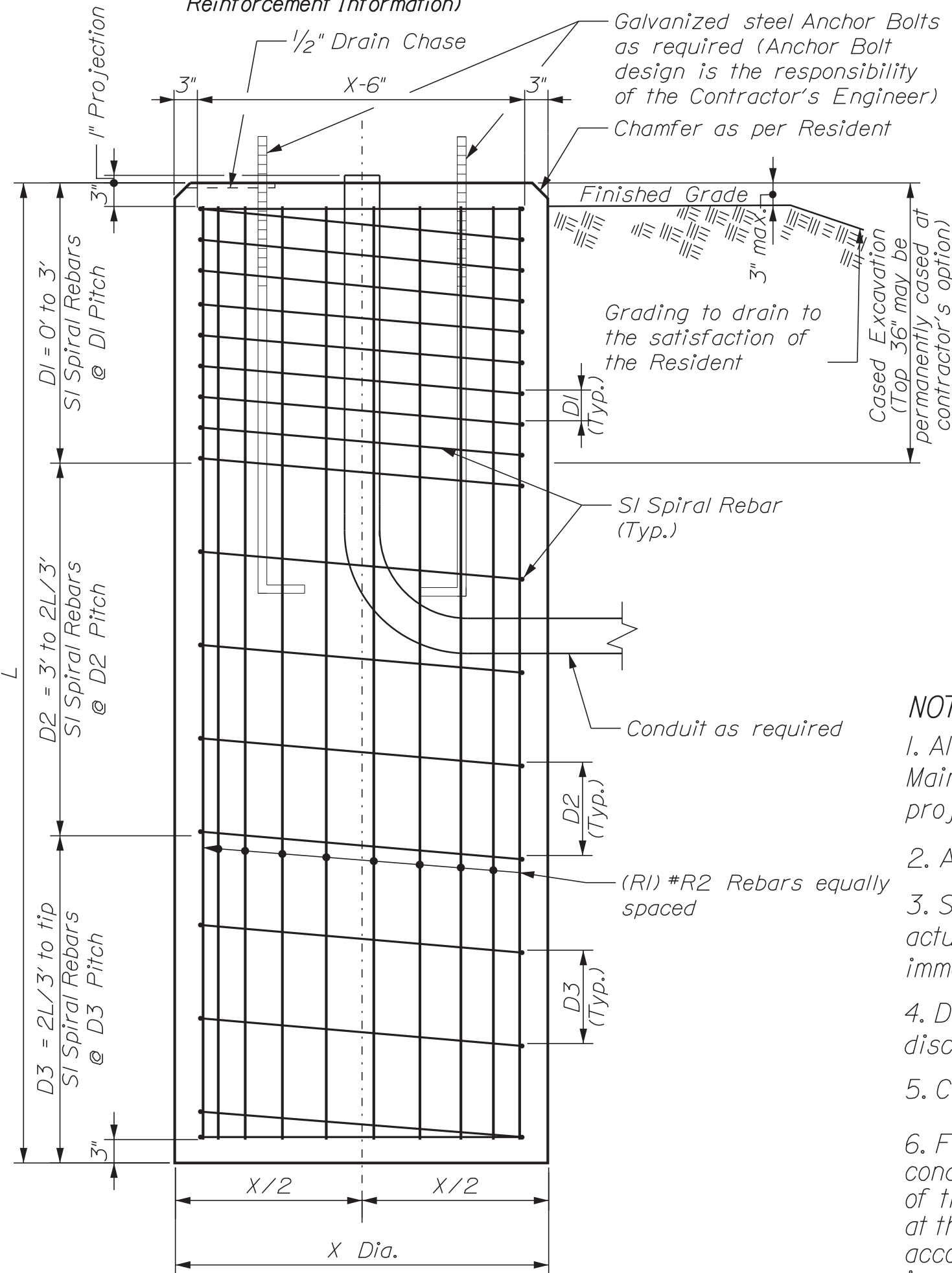
SHEET NUMBER  
**2**  
OF 5

PROJ. MANAGER	DATE	BY	DATE	REVISIONS	FIELD CHANGES
BRIAN KEIZER	1-23	MSM	1-23	DESIGN DETAILED	ALC
				CHECKED/REVIEWED	ALC
				DESIGN DETAILED	
				DESIGN DETAILED	
				REVISIONS 1	
				REVISIONS 2	
				REVISIONS 3	
				REVISIONS 4	
				FIELD CHANGES	





**Drilled Shaft Plan View**  
Not to Scale (See Table for Drilled Shaft & Reinforcement Information)

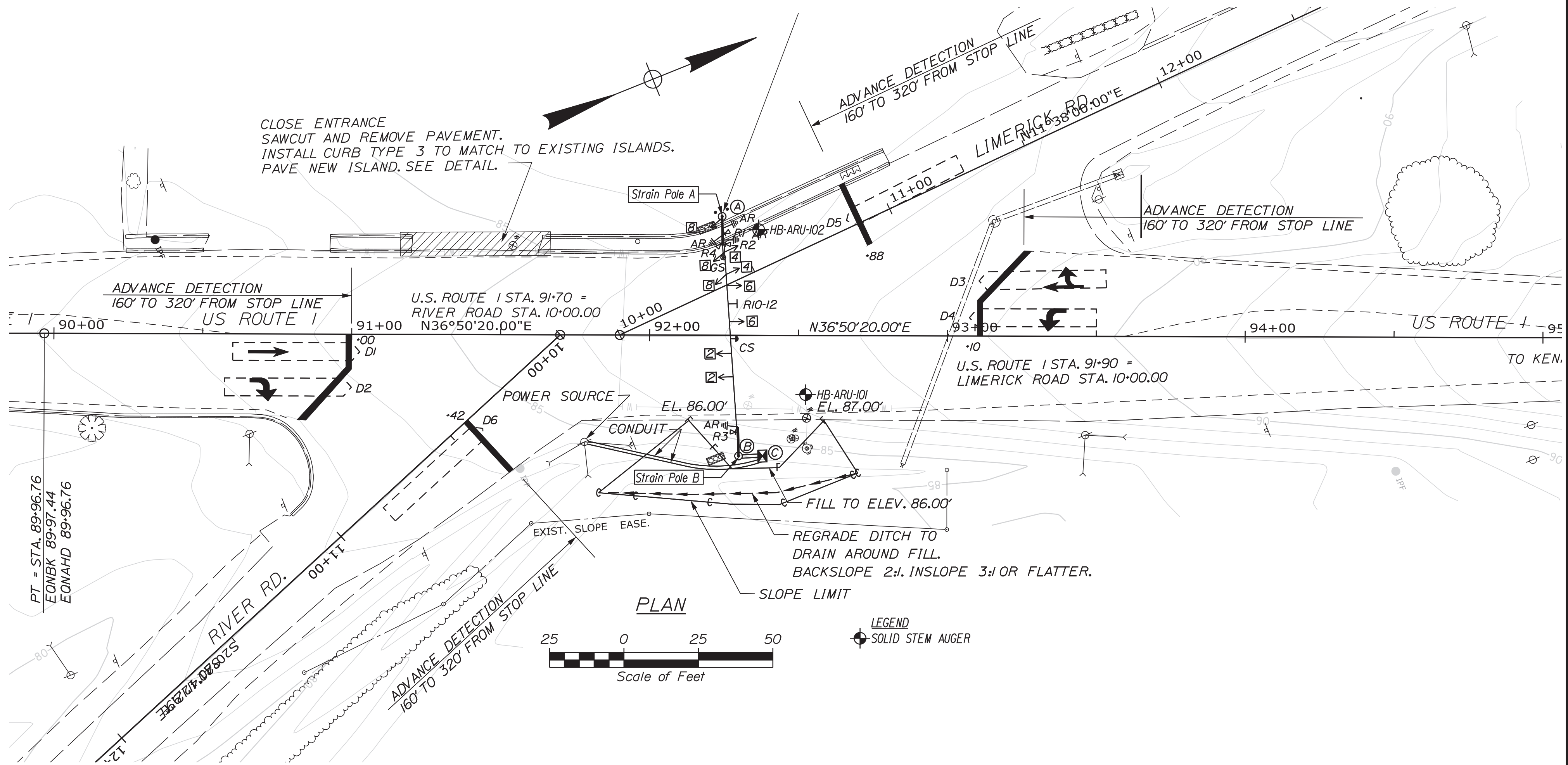


**Drilled Shaft Elevation View**  
Not to Scale (See Table for Drilled Shaft & Reinforcement Information)

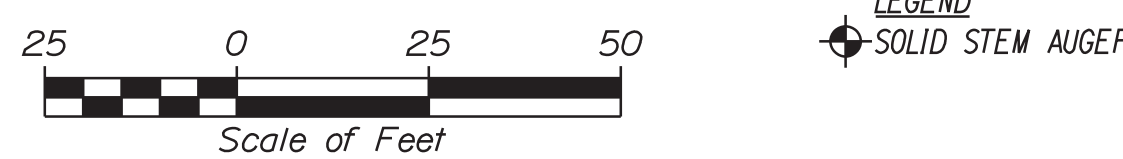
**STRAIN POLE ARMS A & B**

(A) Sta. 10+48, 21.5' Lt. (Limerick Road)  
(B) Sta. 92+30, 40.5' Rt. (US Route 1)

Strain Pole Designation	Strain Pole Station and Offset	Drilled Shaft Dimensions		Reinforcing Steel			Spiral Bar Spacing		
		X	L	R1	R2	S1	D1 (in)	D2 (in)	D3 (in)
		Diameter (feet)	Length (feet)	Longitudinal Rebars Quantity	Longitudinal Rebars Size	Spiral Rebars Size	0 to 3 ft	3 ft to 2L/3 ft	2L/3 ft to tip
A	10+48, 21.5' LT (Limerick Road)	3.0	10.0	15	#8	#5	4	8	12
B	92+30, 40.5' RT (US Route 1)	3.0	10.0	15	#8	#5	4	8	12



**PLAN**



**NOTES:**

- All reinforcing steel is to be grade 60 and conform to MaineDOT Standard Specification requirements along with any project specific Supplementals or Special Provisions.
- All rebar shall have 3" cover unless otherwise noted.
- Should there be a discrepancy between these Details and actual observed field conditions report it to the Resident immediately.
- Do not proceed with dependent work until any such discrepancy is resolved to the satisfaction of the Resident.
- Concrete to be Class LP with  $f'c = 5,000$  PSI.
- Foundation sizes are designed based on estimated loading conditions and are subject to change based on the design of the above-ground components and the actual loading conditions at the top of each foundation submitted by the Contractor in accordance with Standard Specification Section 626.034. Any increase in foundation size based on the submitted loading conditions shall be paid for at the unit price bid by the Contractor. Any reduction in foundation size shall be to the benefit of the Department at the unit price bid by the Contractor.

Maine Department of Transportation		Project: U.S. Route 1 Signal Upgrades		Boring No.: HB-ARU-101																																																																																									
Soil/Bank Exploration Log		US CUSTOMARY UNITS		Locations: Arundel, Maine																																																																																									
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Date Started/Finished:	6/11/2023/09:30-11:30	Drilling Method:	Solid Stem Auger	Core Barrel:	N/A																																																																																								
Boring Location:	92+30.5, 19.8 ft Rt.	Casing ID/OD:	N/A	Water Level:	7.5 ft bgs.																																																																																								
Header Efficiency Factor:	0.886	Header Type:	Automatic 30 Hydraulic	Rope & Catchrod:																																																																																									
<table border="1"> <thead> <tr> <th>Depth (ft.)</th> <th>Sample No.</th> <th>Pen./Frac. (ft.)</th> <th>Sample Depth (ft.)</th> <th>Blows 1/6 in. (15) or 1/20 (15)</th> <th>Unconsolidated</th> <th>Moisture (%)</th> <th>Wt. (%)</th> <th>Grain Size</th> <th>Visual Description and Remarks</th> <th>Laboratory Testing Result / S&amp;B/D and Unified Class</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.5" H.M.</td> <td>-0.5</td> </tr> <tr> <td>10</td> <td>24/12</td> <td>1.00 - 3.00</td> <td>12/11/6/5</td> <td>17</td> <td>25</td> <td></td> <td></td> <td></td> <td>Brown, damp, medium dense, fine to coarse SAND, some gravel, little silt, with brick pieces. (F111).</td> <td>-0.5</td> </tr> <tr> <td>5</td> <td>20</td> <td>24/15</td> <td>5.00 - 7.00</td> <td>5/8/12/9</td> <td>20</td> <td>30</td> <td></td> <td></td> <td>Light brown, moist, medium dense, fine to coarse SAND, little gravel, little silt.</td> <td>-4.0</td> </tr> <tr> <td>10</td> <td>30</td> <td>24/18</td> <td>10.00 - 12.00</td> <td>4/6/17/10</td> <td>13</td> <td>19</td> <td></td> <td></td> <td>Light brown, wet, medium dense, fine SAND, trace silt.</td> <td>-8.5</td> </tr> <tr> <td>15</td> <td>40</td> <td>24/20</td> <td>15.00 - 17.00</td> <td>4/7/9/12</td> <td>16</td> <td>24</td> <td></td> <td></td> <td>Grey, wet, very stiff, Clayey SILT, some fine sand.</td> <td>-14.0</td> </tr> <tr> <td>20</td> <td>50</td> <td>24/14</td> <td>20.00 - 22.00</td> <td>5/8/8/15</td> <td>16</td> <td>24</td> <td></td> <td></td> <td>Grey, wet, medium dense, fine to coarse SAND, little gravel, little silt.</td> <td>-19.0</td> </tr> <tr> <td>25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom of Exploration at 22.0 feet below ground surface. NO REFUSAL.</td> <td>-22.0</td> </tr> </tbody> </table>						Depth (ft.)	Sample No.	Pen./Frac. (ft.)	Sample Depth (ft.)	Blows 1/6 in. (15) or 1/20 (15)	Unconsolidated	Moisture (%)	Wt. (%)	Grain Size	Visual Description and Remarks	Laboratory Testing Result / S&B/D and Unified Class	0									3.5" H.M.	-0.5	10	24/12	1.00 - 3.00	12/11/6/5	17	25				Brown, damp, medium dense, fine to coarse SAND, some gravel, little silt, with brick pieces. (F111).	-0.5	5	20	24/15	5.00 - 7.00	5/8/12/9	20	30			Light brown, moist, medium dense, fine to coarse SAND, little gravel, little silt.	-4.0	10	30	24/18	10.00 - 12.00	4/6/17/10	13	19			Light brown, wet, medium dense, fine SAND, trace silt.	-8.5	15	40	24/20	15.00 - 17.00	4/7/9/12	16	24			Grey, wet, very stiff, Clayey SILT, some fine sand.	-14.0	20	50	24/14	20.00 - 22.00	5/8/8/15	16	24			Grey, wet, medium dense, fine to coarse SAND, little gravel, little silt.	-19.0	25									Bottom of Exploration at 22.0 feet below ground surface. NO REFUSAL.	-22.0
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DATE: MAY 2023  
SIGNATURE: Kathleen Maguire  
P.E. NUMBER: 7120  
DATE: 1/27/2023

PROJ. MANAGER	DATE	BY	REVISIONS	FIELD CHANGES
K. MAGUIRE	MAY 2023	T. WHITE	DESIGN REVIEWED	
			DESIGNS DETAILED	
			DESIGNS DETILED	
			REVISIONS 1	
			REVISIONS 2	
			REVISIONS 3	
			REVISIONS 4	

**ARUNDEL  
U.S. ROUTE 1 / LIMERICK RD. / RIVER RD.  
STRAIN POLE FOUNDATION  
& BORING LOCATION PLAN  
WITH BORING LOGS**

SHEET NUMBER

Town, County, State \_\_\_\_\_  
 Approx. Property Lines \_\_\_\_\_ P.L.  
 Existing Right of Way \_\_\_\_\_  
 Limits of Wrought Portion \_\_\_\_\_ L.O.W.P.  
 Control Of Access \_\_\_\_\_ C.O.A.  
 New Right of Way \_\_\_\_\_  
 New Easement \_\_\_\_\_  
 New Temporary Rights \_\_\_\_\_  
 New R/W Within Existing R/W \_\_\_\_\_

New R/W Along Existing R/W  
 Building \_\_\_\_\_  
 Trees Conifer \_\_\_\_\_  
 Tree Line \_\_\_\_\_  
 Water Edge \_\_\_\_\_  
 Ledge \_\_\_\_\_  
 Fence CHAIN LINK \_\_\_\_\_  
 Sign \_\_\_\_\_  
 Clearing Limit Line \_\_\_\_\_  
 Bush Line \_\_\_\_\_  
 Rock/Boulder \_\_\_\_\_  
 Barb Wire \_\_\_\_\_  
 Well \_\_\_\_\_  
 Flag Pole \_\_\_\_\_  
 Stockade \_\_\_\_\_  
 Mailbox \_\_\_\_\_

**PLAN LEGEND**

Sanitary Sewer	Existing	Proposed	Traveled Way	Existing	Proposed
Telephone Line	Existing	Proposed	Ditch	Existing	Proposed
Electric Line	Existing	Proposed	Catch Basin	Existing	Proposed
Water Line	Existing	Proposed	Manhole	Existing	Proposed
Underdrain Line	Existing	Proposed	Sewer Manhole	Existing	Proposed
Gas Line	Existing	Proposed	Utility Pole	Existing	Proposed
Guardrail	Existing	Proposed	Fire Hydrant	Existing	Proposed
Culvert	Existing	Proposed	Curbing	Existing	Proposed

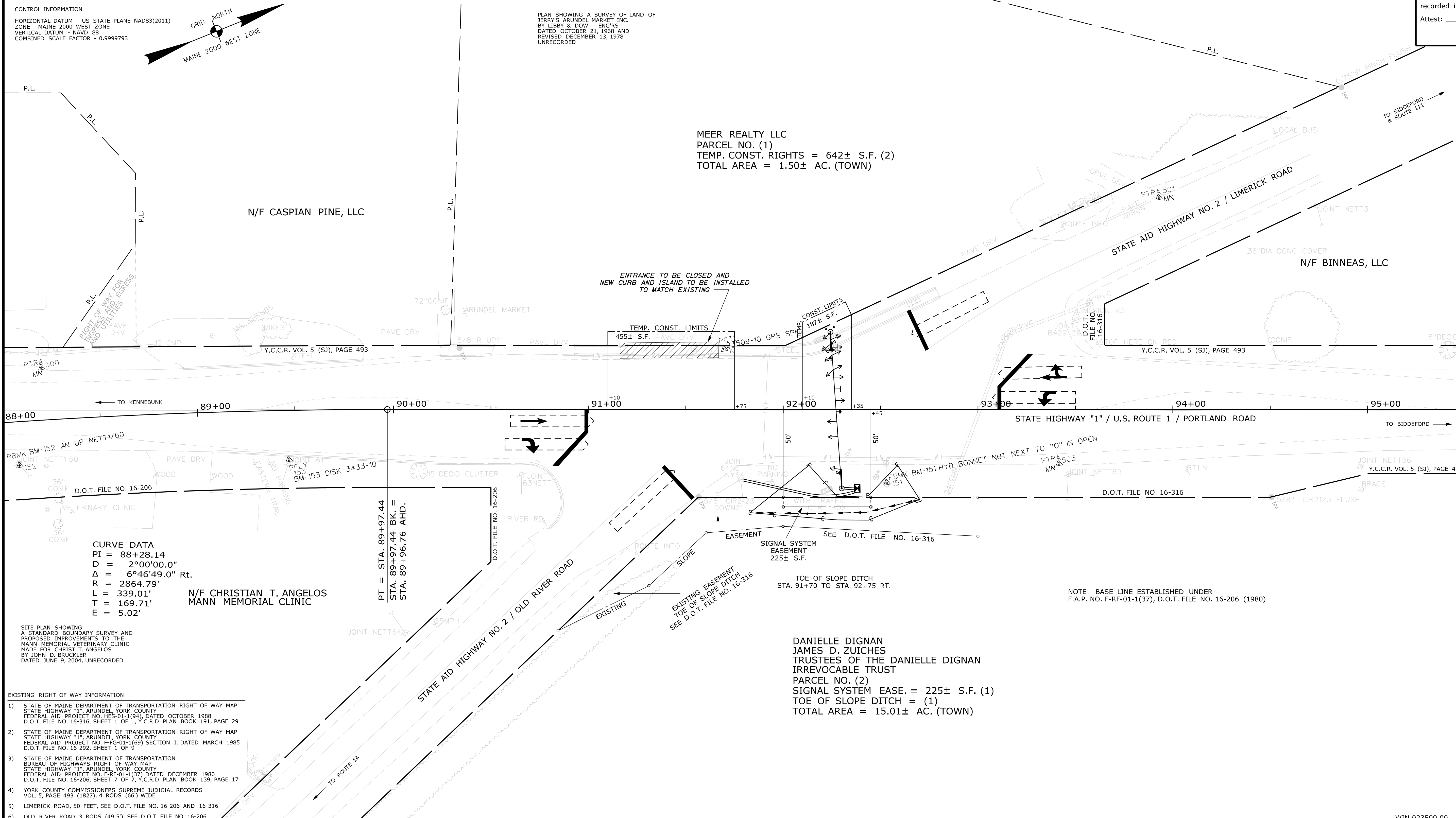
Cut Line \_\_\_\_\_  
 Stonewall \_\_\_\_\_  
 Baseline \_\_\_\_\_  
 Monument \_\_\_\_\_  
 Iron Rod Found \_\_\_\_\_ IRF  
 Replacement Pin Set \_\_\_\_\_  
 Fill Line \_\_\_\_\_  
 Retaining Wall \_\_\_\_\_  
 Traverse Point \_\_\_\_\_  
 Pipe Found \_\_\_\_\_ IPF

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

Scale of Feet  
 0 25 50 75 100

STATE OF MAINE  
 REGISTRY OF DEEDS

COUNTY \_\_\_\_\_  
 RECEIVED \_\_\_\_\_,  
 at \_\_\_\_\_ h \_\_\_\_\_ m \_\_\_\_\_ M and  
 recorded in Plan Bk \_\_\_\_\_, Pg. \_\_\_\_\_  
 Attest: \_\_\_\_\_ REGISTER



Date: 1/30/2023  
 Username: Jude.Hogan  
 Division: ROW  
 Filename: ... \00\ROW\WSTA001\_RWP\PLAN1.dgn

ITEM	TECH	CHECKED	C.W.K.		
			R.M.C.	J.H.	J.H.
EXISTING CONDITION PLAN					
FINAL RIGHT OF WAY					
AREAS					

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460  
 ARUNDEL  
 RIGHT OF WAY MAP

REVISIONS			PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD				
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE		

BRUCE A. VAN NOTE  
 COMMISSIONER  
 JOYCE NOEL TAYLOR  
 CHIEF ENGINEER

DATE \_\_\_\_\_

STATE HIGHWAY "1"  
 U.S. ROUTE 1 / PORTLAND ROAD  
 ARUNDEL YORK COUNTY  
 FEDERAL AID PROJECT NO. 2350900

JANUARY 2023  
 SCALE 1" = 25'

RIGHT-OF-WAY MAP  
 SHEET 1 OF 1

D.O.T. FILE NO. 16-544

SHEET NUMBER  
 5  
 OF 5