

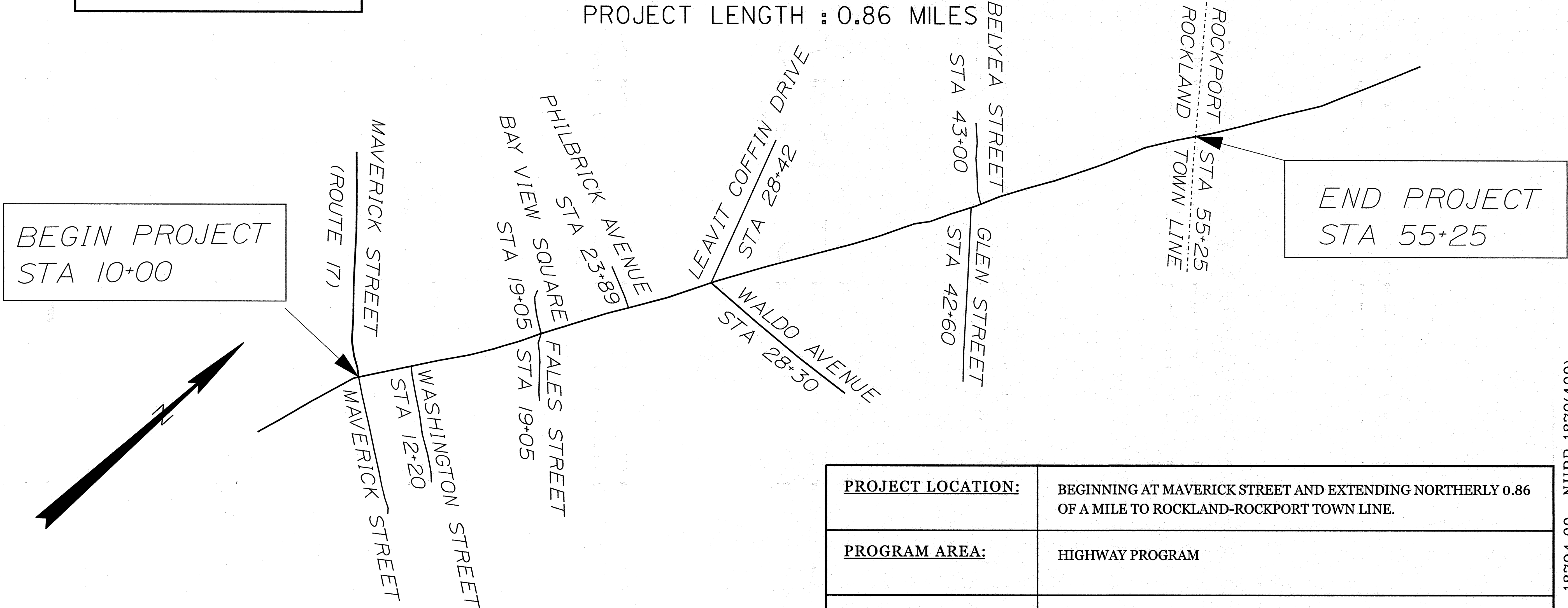
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



ROCKLAND
KNOX COUNTY
U.S. ROUTE 1, CAMDEN STREET
NHPP-1879(400)
PROJECT LENGTH : 0.86 MILES

TRAFFIC DATA	
US 1 (Camden) N/O US 1A/SR 17	
Current (2017) AADT.....	15960
Future (2029) AADT.....	16920
DHV - % of AADT.....	11%
Design Hour Volume.....	1861
% Heavy Trucks (AADT).....	3%
% Heavy Trucks (DHV).....	2%
Directional Distribution (DHV).....	52%
18 kip Equivalent P 2.0.....	248
18 kip Equivalent P 2.5.....	236
Design Speed (mph).....	35
Functional Class:.....	Other Princ. Arterial
Highway Corridor Priority:.....	1

INDEX OF SHEETS	
DESCRIPTION	SHEET NO.
TITLE SHEET.....	1
SIGNAL LOCATION SHEET.....	2
SIGNAL NOTES AND DETAILS.....	3
SIGNAL PLANS.....	4-7



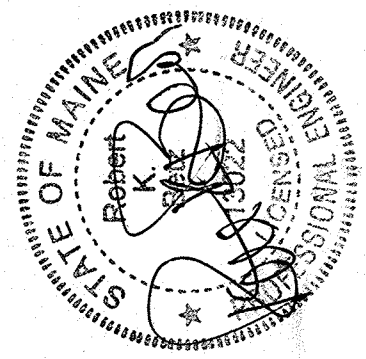
PROJECT LOCATION:	BEGINNING AT MAVERICK STREET AND EXTENDING NORTHERLY 0.86 OF A MILE TO ROCKLAND-ROCKPORT TOWN LINE.
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	1 1/2" MILL & FILL AND 2" MILL & FILL WITH ADA IMPROVEMENTS.

18794.00 NHPP-1879(400)

ROCKLAND U.S. ROUTE 1	TITLE SHEET
SHEET NUMBER	
1	
OF 7	

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	DOUGLAS COOMBS
DESIGNER	J WOOD
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

SIGNATURE	1/3/22	P.E. NUMBER	3/25/19	DATE



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
		3/29/19
COMMISSIONER:		
CHIEF ENGINEER:		3-28-19

Date: 3/1/2019

Username: common

Division: HIGHWAY

Filename: ... \002_Signal Location.dgn

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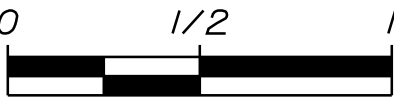
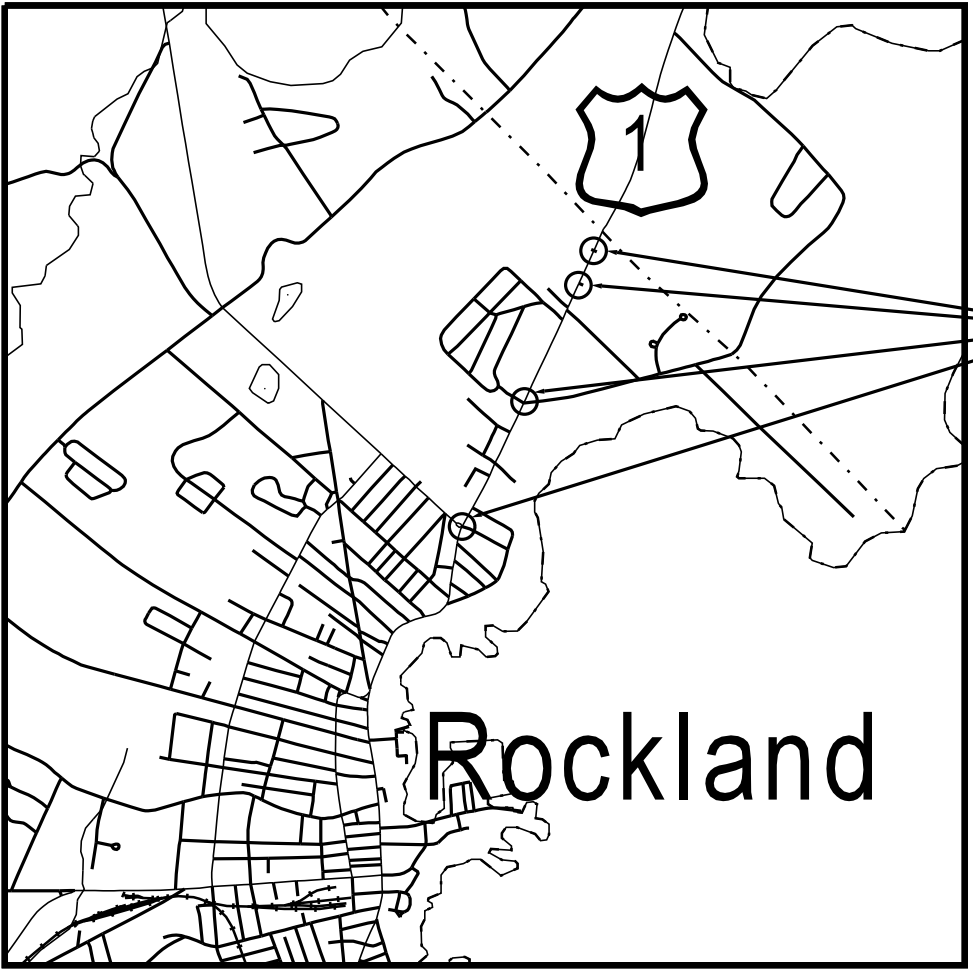
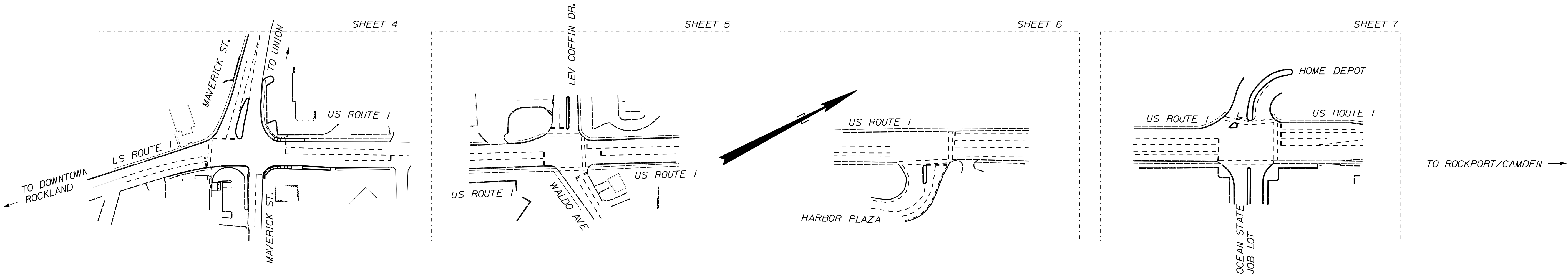
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



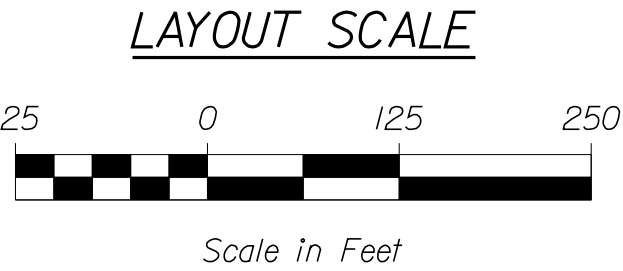
ROCKLAND
KNOX COUNTY
CAMDEN STREET U.S. ROUTE 1
NHPP-1879(400)
PROJECT LENGTH : 0.00 MILES

PLAN LEGEND

Town, County, State	_____	Catch Basins	▣ Existing	▣ Proposed
Property Lines	-----	Manholes	○ Existing	● Proposed
R/W Lines-Existing	-----	Proposed Underdrain	-----	
R/W Lines-Proposed	-----	Proposed Ditch	-----	
Culvert-Existing	-----	Existing Ditch	-----	
Culvert Proposed	-----	Utility Poles	⊕ Existing	◆ Proposed
Curbing	Existing Proposed	Fire Hydrants	⊕ Existing	⊕ Proposed
Type 1	-----	Existing Water Line	-----	
Type 3	-----	Existing San. Sewer	-----	
Type 5	-----	Existing San. Sewer Manhole	⊙	
Outline of Bodies of Water	-----	Guardrail-Existing	-----	
Exposed Bedrock	-----	Guardrail-Proposed	-----	
Buildings	-----	Guardrail-Cable, Other	-----	
Trees	☙ Conifer ☘ Deciduous	Centerline-Existing	-----	
Tree Line	-----	Centerline-Proposed	-----	
Clearing Limit Line	-----	Travelway-Existing	-----	
Railroad	-----	Travelway-Proposed	-----	
Boring	⊕ HB-XXX-###	Probe	⊕ P-#. #X	
Pavement Core	● PC-#		#. # = Depth	
Test Pit	▣ TP-XXX-###		X = W (Weathered Rock)	
			R (Refusal)	
			NR (No Refusal)	



LOCATION MAP



PROJECT LOCATION:	ROCKLAND INTERSECTIONS AT RTE 1/MAVERICK ST., RTE 1/WALDO AVE./LEV COFFIN DR., RTE 1/HARBOR PLAZA, AND RTE 1/HOME DEPOT/OCEAN STATE JOB LOT
PROGRAM AREA:	HIGHWAY PROGRAM
SCOPE OF WORK:	TRAFFIC SIGNALS

18794.00 NHPP-1879(400)

ROCKLAND
U.S. ROUTE 1

SIGNAL LOCATION SHEET

SHEET NUMBER

2

OF 7



SIGNATURE	P.E. NUMBER	DATE
<i>Albert L. Godfrey</i>	4226	2/27/19

PROJECT INFORMATION			
PROGRAM	DESIGNER	CONSULTANT	PROJECT RESIDENT
HIGHWAY	DOUGLAS COMBS A. GODFREY	TERRA MAGNA SERVICES, INC.	CONTRACTOR
PROJECT MANAGER	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE

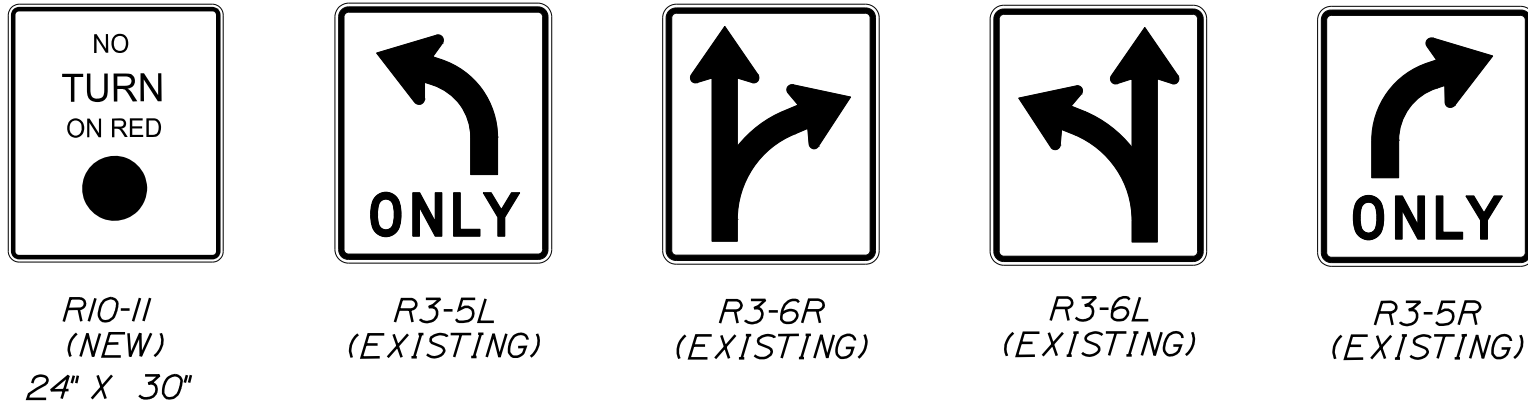
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER:		
CHIEF ENGINEER:		

TRAFFIC SIGNAL NOTES

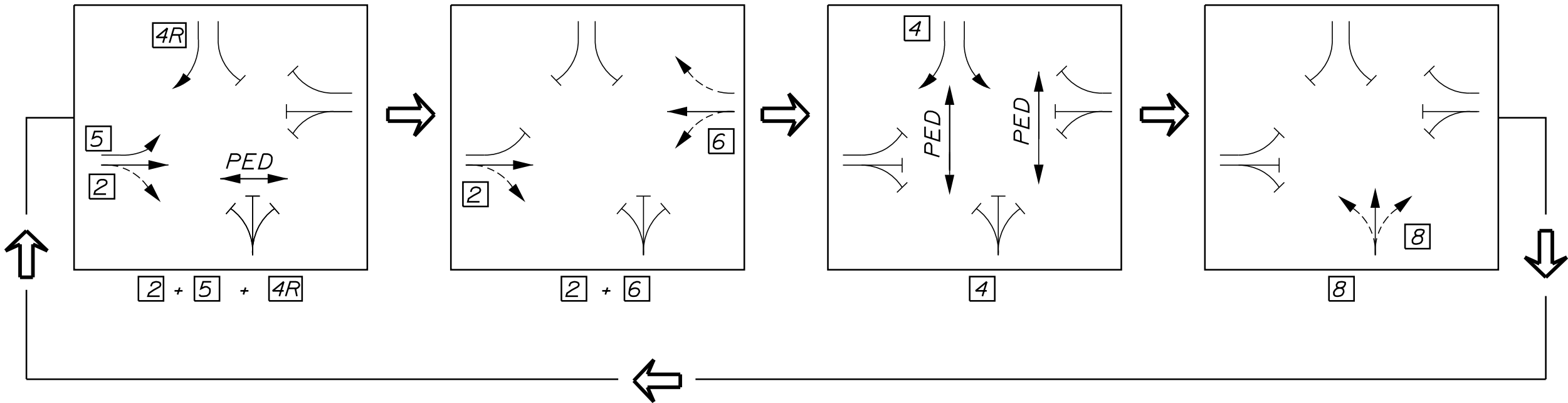
1. TRAFFIC SIGNAL WORK FOR THE INTERSECTION OF CAMDEN STREET (U.S.ROUTE 1)AND MAVERICK STREET WILL INCLUDE,BUT NOT BE LIMITED TO,INSTALLATION OF A NEW WOOD SIGNAL POLE; RELOCATION OF THE EXISTING TRAFFIC SIGNAL CABINET TO THE NEW WOOD POLE; INSTALLATION OF NEW SPANWIRES,TETHERS AND CONDUCTORS;RELOCATION OF EXISTING TRAFFIC SIGNAL ASSEMBLIES;INSTALLATION OF NEW PEDESTRIAN SIGNALS AND APS PUSHBUTTONS;INSTALLATION OF 'GRIDSMART' VIDEO DETECTION;AND RELATED INCIDENTAL WORK AND MATERIALS.
2. TRAFFIC SIGNAL WORK FOR THE INTERSECTION OF CAMDEN STREET (U.S.ROUTE 1),WALDO AVENUE AND LEV COFFIN DRIVE WILL INCLUDE,BUT NOT BE LIMITED TO,INSTALLATION OF A NEW WOOD SIGNAL POLE;INSTALLATION OF A NEW TRAFFIC SIGNAL CABINET ON THE NEW POLE;TRANSFER OF THE EXISTING CONTROLLER AND OTHER COMPONENTS FROM THE EXISTING TRAFFIC SIGNAL CABINET TO THE NEW CABINET;RELOCATION OF THE SPANWIRE, TETHER AND POWER FEED TO THE NEW POLE;RELOCATION OF EXISTING TRAFFIC SIGNAL ASSEMBLIES;INSTALLATION OF 'GRIDSMART' VIDEO DETECTION;AND RELATED INCIDENTAL WORK AND MATERIALS.
3. TRAFFIC SIGNAL WORK FOR THE INTERSECTION OF CAMDEN STREET (U.S.ROUTE 1)AND HARBOR PLAZA WILL INCLUDE,BUT NOT BE LIMITED TO,INSTALLATION OF A NEW WOOD SIGNAL POLE; INSTALLATION OF CONDUIT AND CONDUCTORS FROM THE NEW POLE TO THE EXISTING TRAFFIC SIGNAL CONTROL CABINET;INSTALLATION OF 'GRIDSMART' VIDEO DETECTION;AND RELATED INCIDENTAL WORK AND MATERIALS.
4. TRAFFIC SIGNAL WORK FOR THE INTERSECTION OF CAMDEN STREET (U.S.ROUTE 1),HOME DEPOT AND OCEAN STATE JOB LOT WILL INCLUDE,BUT NOT BE LIMITED TO,INSTALLATION OF A NEW WOOD SIGNAL POLE;INSTALLATION OF NEW SPANWIRES,TETHERS AND CONDUCTORS TO THE NEW POLE;RELOCATION OF EXISTING TRAFFIC SIGNAL ASSEMBLIES;INSTALLATION OF 'GRIDSMART' VIDEO DETECTION;AND RELATED INCIDENTAL WORK AND MATERIALS.
5. ALL WORK SHALL BE COMPLETED IN CONFORMANCE WITH THE LATEST REVISIONS OF THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES,THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES,THE NATIONAL ELECTRICAL CODE,AND ANY REQUIREMENTS OF THE POWER COMPANY.
6. THE CONTROL CABINETS AND THE POWER DISCONNECT ENCLOSURES EACH SHALL BE MARKED WITH ARC HAZARD TYPE 2,3 OR 4 AND THE APPROPRIATE PPE REQUIRED. SEE SECTION 643.09 FOR OTHER REQUIREMENTS.
7. PEDESTRIAN SIGNALS SHALL BE POLYCARBONATE,EITHER 16 INCH SINGLE DISPLAY HOUSINGS OR DOUBLE 12 INCH DISPLAY HOUSINGS.
8. PEDESTRIAN PUSHBUTTONS SHALL BE INSTALLED AT 3.5 FEET ABOVE ADJACENT ACCESSIBLE SURFACE GRADE.
9. MAXIMUM ALLOWABLE REACH DISTANCE FOR PEDESTRIAN PUSHBUTTONS IS 10 INCHES.INSTALL EXTENSION BRACKETS IF REQUIRED.PAYMENT FOR EXTENSION BRACKETS WILL BE INCIDENTAL TO ITEM 643.71.
10. LOCATIONS OF ANY EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE PRESENCE OF UNDERGROUND UTILITY FACILITIES PRIOR TO COMMENCING ANY EXCAVATION WORK OR INSTALLATION OF POLES,FOUNDATIONS,JUNCTION BOXES, CONDUIT OR GROUND-MOUNTED SIGNAGE AND SHALL NOTIFY UTILITIES OF PROPOSED WORK IN ACCORDANCE WITH MRSA TITLE 23 SECTION 3360-A, MAINE "DIG SAFE" SYSTEM. CONTRACTOR SHALL CONTACT DIG SAFE AT LEAST THREE WORKING DAYS PRIOR TO THE BEGINNING OF EXCAVATION. ALL UTILITIES SHALL BE LOCATED BEFORE BEGINNING EXCAVATION.
11. THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY OPERATIONS ARE CONDUCTED THAT POTENTIALY COULD CONFLICT WITH AERIAL UTILITIES.
12. NEW CONDUIT NOT UNDER PAVEMENT OR SIDEWALK SHALL BE 3 INCH MINIMUM,PVC SCHEDULE 40. NEW CONDUIT UNDER PAVEMENT SHALL BE 3 INCH MINIMUM SCHEDULE 80 PVC OR RIGID METAL CONDUIT. CONDUIT UNDER ROADWAY PAVEMENT SHALL BE EITHER DIRECTIONALLY DRILLED OR JACKED. MINIMUM BURIAL DEPTH FOR CONDUIT SHALL BE 36 INCHES. TOP 3 INCHES OF CONDUIT SHALL BE SEALED TO PREVENT ENTRY BY RODENTS.

- 13.THERE SHALL BE NO SPLICES OR JUNCTION BOXES EXCEPT AS NOTED ON THE PROJECT PLANS OR APPROVED BY THE RESIDENT.
14. JUNCTION BOX COVERS SHALL BE LABELED "TRAFFIC". METAL JUNCTION BOX COVERS SHALL BE GROUNDED.
15. SPECIFIED TRAFFIC AND PEDESTRIAN SIGNAL POLE LOCATIONS ARE MEASURED TO THE CENTER OF THE POLES AND/OR FOUNDATIONS.
16. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT,LEGIBLE, WEATHERPROOF TAGS SECURELY ATTACHED TO EACH CABLE.
17. AT THE TIME OF FINAL PROJECT INSPECTION,THE CONTRACTOR SHALL FURNISH TO THE RESIDENT THREE COMPLETE SETS OF AS-BUILT TRAFFIC SIGNAL PLANS. ONE ADDITIONAL SET SHALL REMAIN IN EACH CABINET.
18. THE MAINTENANCE OF TRAFFIC SIGNALS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY MAINEDOT.
19. PAYMENT UNDER ITEM 643.71 SHALL INCLUDE,BUT NOT BE LIMITED TO,NEW POWER SERVICE AND METER (IF REQUIRED),NEW METER DISCONNECT AND ENCLOSURE,NEW WOOD POLES,NEW PEDESTRIAN SIGNALS AND APS PUSHBUTTONS,RELOCATION OF TRAFFIC SIGNAL CABINET AND COMPONENTS (IF REQUIRED),NEW CABINET (IF REQUIRED),RELOCATION OF SIGNAL ASSEMBLIES,WIRING,CABLE, POLE RISERS,SPANWIRES,TETHERS,AND ALL APPURTENANCES AND INCIDENTALS NECESSARY FOR A COMPLETELY FUNCTIONING TRAFFIC SIGNAL INSTALLATION,OTHER THAN RELATED LABOR,MATERIALS AND EQUIPMENT INCLUDED IN OTHER PAY ITEMS OF THE CONTRACT.INSTALLATION OF NEW 'GRIDSMART' VIDEO DETECTION WILL BE PAID UNDER ITEM 643.83.
- 20.NO TOPOGRAPHICAL SURVEY WAS PERFORMED FOR THIS TRAFFIC SIGNAL WORK.TRAFFIC SIGNAL PLANS WERE DEVELOPED FROM AERIAL PHOTOGRAPHY,PLANS OF PREVIOUS PROJECTS IN THE VICINITY,BOUNDARY SURVEY OF THE BURGER KING PROPERTY,PRELIMINARY DESIGN BY OTHERS FOR SIDEWALK IMPROVEMENTS ON THE FRONTAGE OF THE BURGER KING PROPERTY,AND GENERAL FIELD REVIEW.LOCATIONS OF PROPOSED WOOD SIGNAL POLES AND PEDESTRIAN SIGNAL PEDESTAL POLES SHOWN ON THE PLANS ARE APPROXIMATE. ACTUAL LOCATIONS IN THE FIELD SHALL BE ESTABLISHED BY THE CONTRACTOR SUBJECT TO APPROVAL OF THE MAINEDOT RESIDENT.

OVERHEAD SIGNAGE



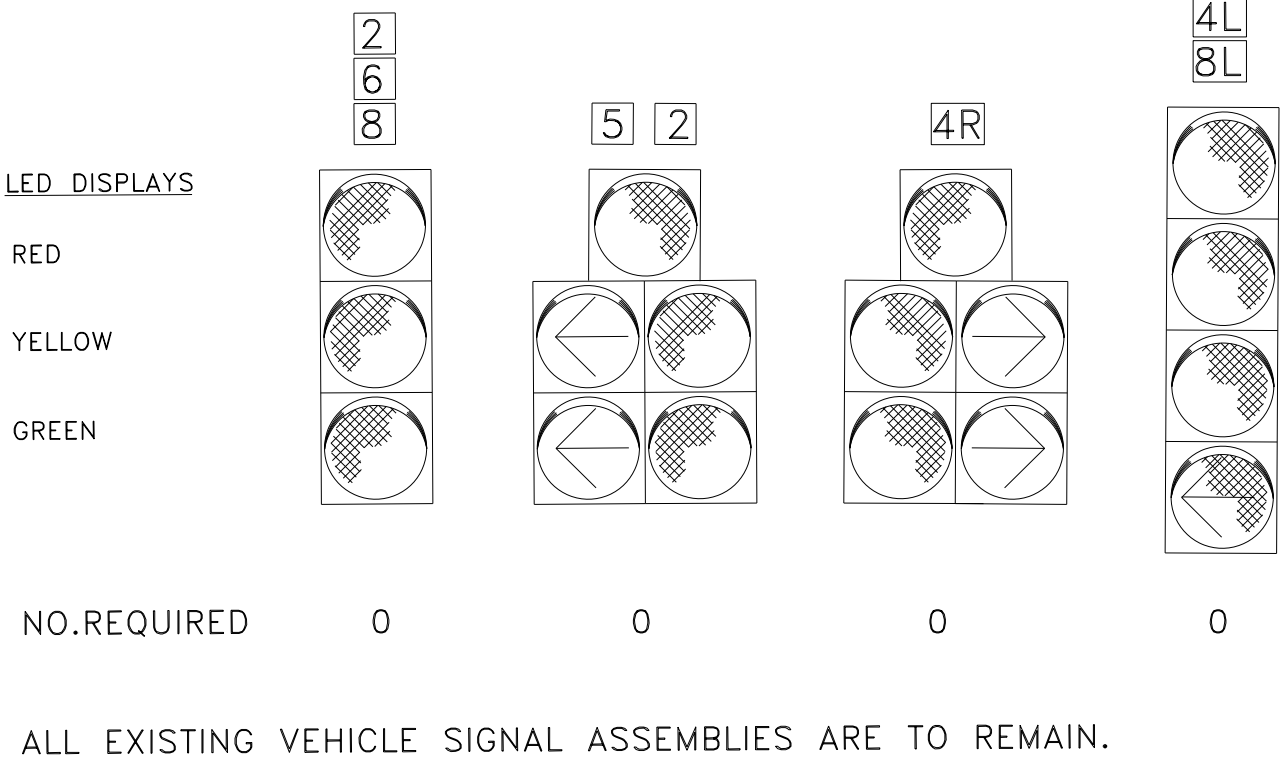
PHASE DIAGRAM



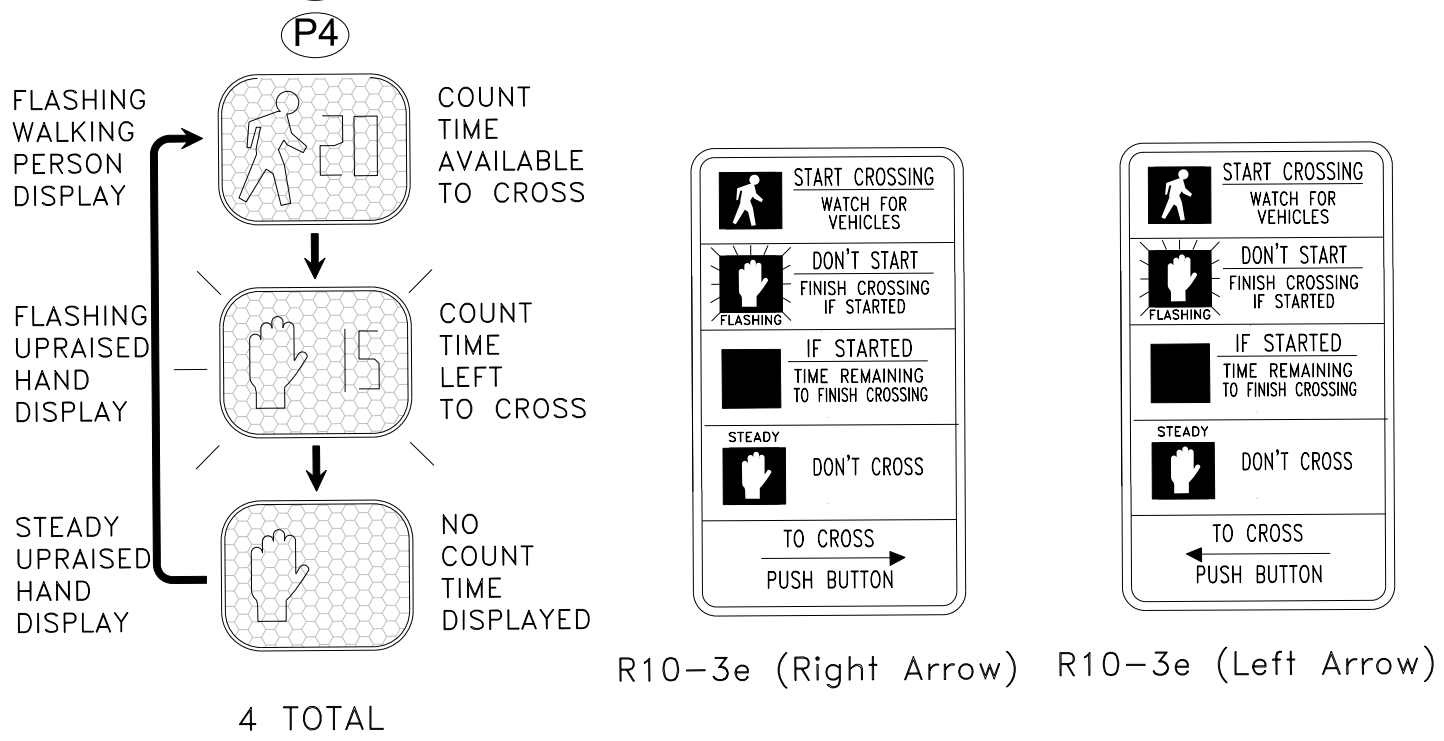
SIGNAL TIMING

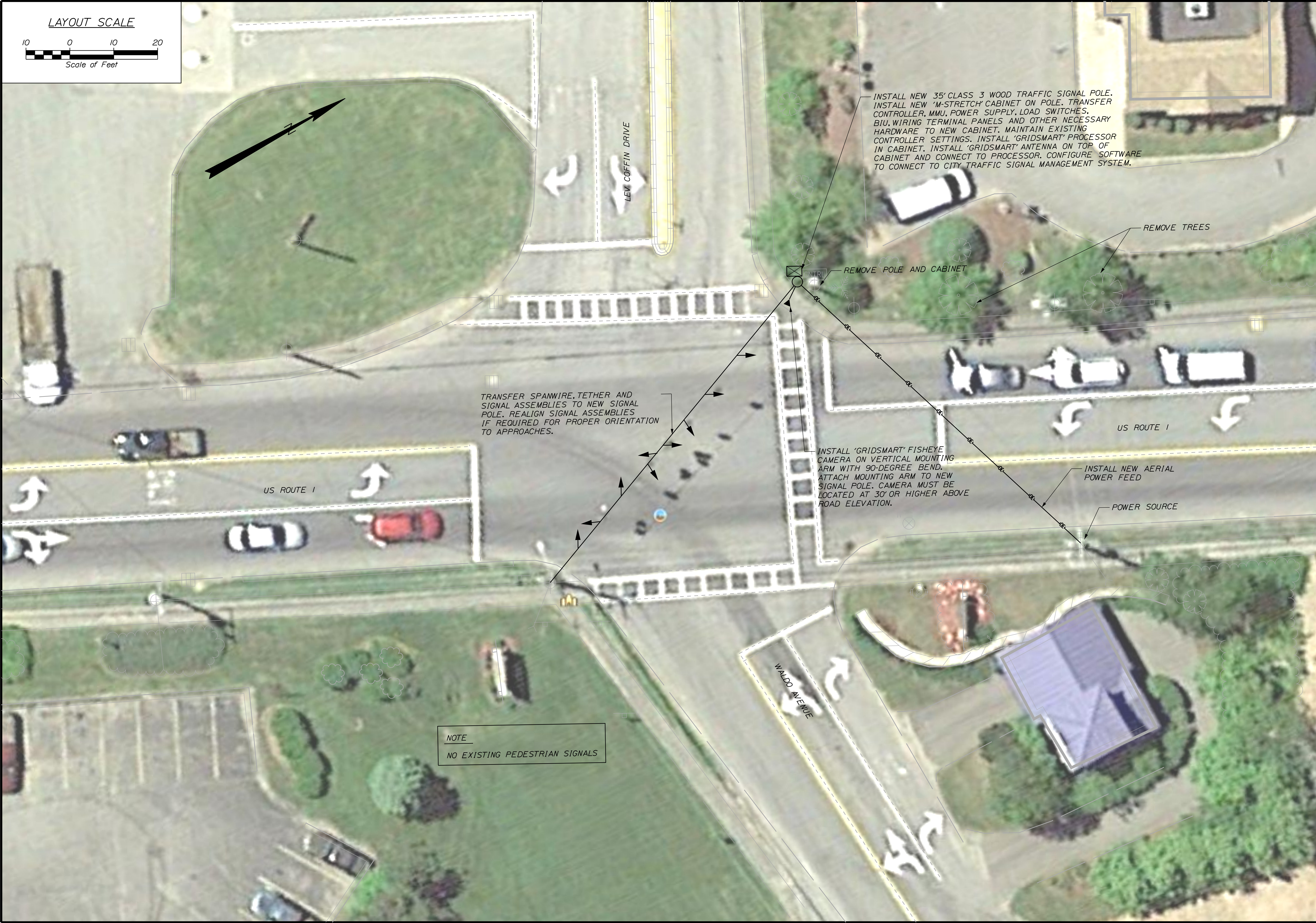
PHASE	1	2	3	4	5	6	7	8
MIN. INITIAL	-	10	-	6	6	10	-	5
VEH. EXT.	-	4.0	-	3.0	2.5	4.0	-	2.0
MAX. 1	-	40	-	40	10	45	-	7
MAX. 2	-	30	-	60	15	90	-	10
YELLOW	-	3.0	-	3.0	3.0	3.0	-	3.0
ALL RED	-	2.0	-	2.5	2.5	3.5	-	2.5
PED. WALK	-	4.0	-	4.0	-	-	-	-
PED. CLEAR	-	4.0	-	12.0	-	-	-	-
FLASH	-	Y	-	R	R	Y	-	R
RECALL	-	SOFT	-	-	-	SOFT	-	-

SIGNAL HEADS DETAIL



PEDESTRIAN SIGNAL DETAIL





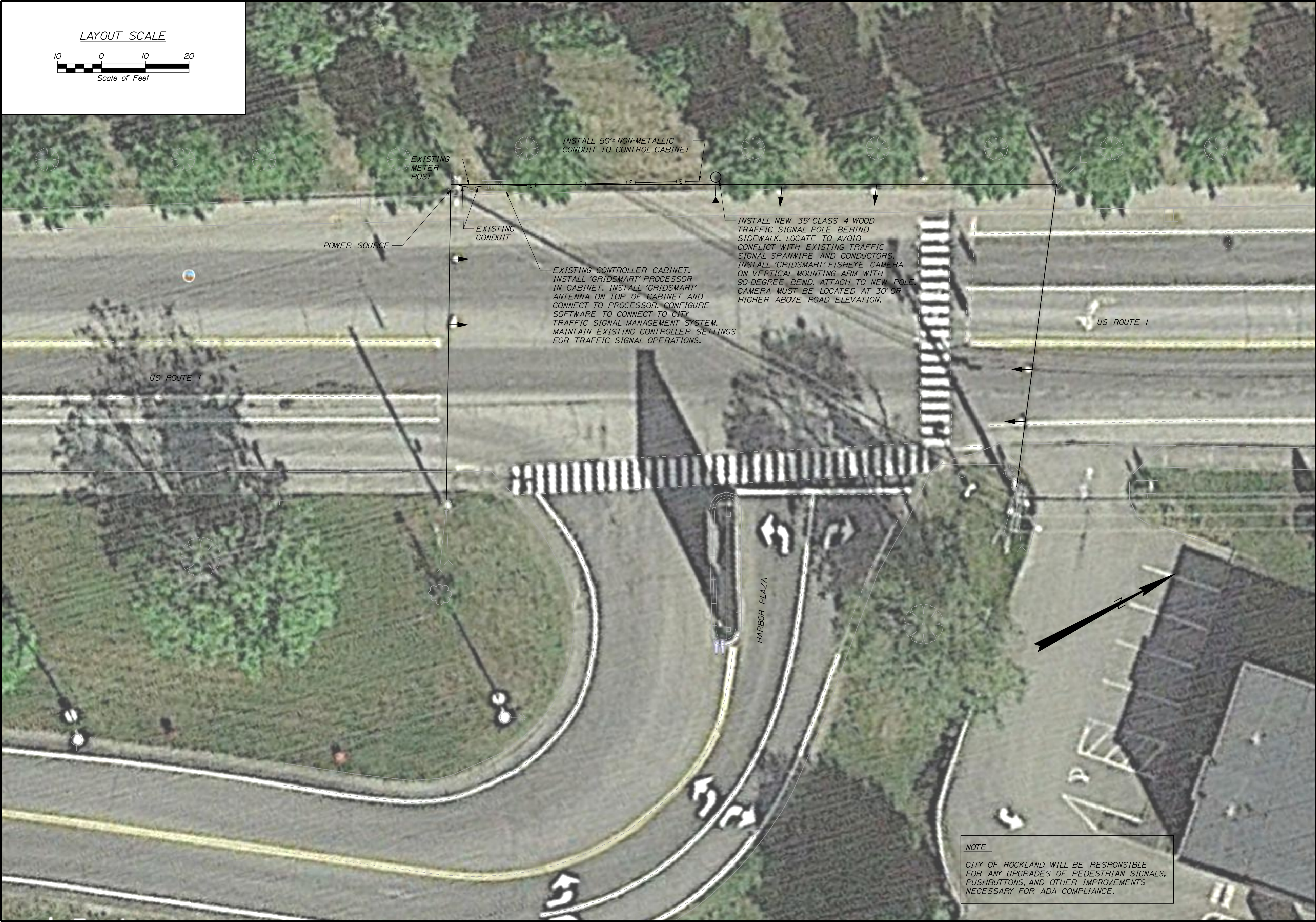
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
NHP-1879(400)		WIN 18794.00	
HIGHWAY PLANS		SHEET NUMBER	
5		OF 7	
ROCKLAND		U.S. ROUTE 1 \ WALDO AVE.	
SIGNAL PLANS		DATE	
2/27/19		SIGNATURE	
4226		P.E. NUMBER	
2/27/19		DATE	
2/19		BY	
JLE		DATE	
2/19		D. COOMBS	
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Date:3/1/2019

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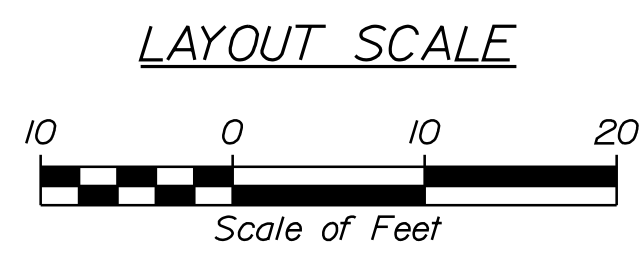
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		DATE	BY	D. COOMBS	PROJ. MANAGER
		2-19	ALG	JE	CHECKED-REVIEWED
NHP-1879(400)	SIGNATURE 4226	2-19		ALG	CHECKED-REVIEWED
					DESIGN-DETAILED
WIN 18794.00	HIGHWAY PLANS				DESIGN-DETAILED
					REVISIONS 1
					REVISIONS 2
					REVISIONS 3
					REVISIONS 4
					FIELD CHANGES

ROCKLAND U.S. ROUTE 1 / HARBOR PLAZA	SIGNAL PLANS
SHEET NUMBER 6	
OF 7	



POWER SOURCE

INSTALL NEW SPANWIRE AND
TETHER AND ATTACH TO NEW
POLE, TRANSFER SIGNAL ASSEMBLIES
AND OVERHEAD SIGNS TO NEW
SPANWIRE. INSTALL NEW SIGNAL
CONDUCTORS, IF NECESSARY.
NO SPlicing WILL BE ALLOWED.

- EXISTING CONTROLLER CABINET
INSTALL 'GRIDSMA'RT' PROCESSOR
IN CABINET. INSTALL 'GRIDSMA'RT
ANTENNA ON TOP OF CABINET AND
CONNECT TO PROCESSOR. CONFIGURE
SOFTWARE TO CONNECT TO CITY
TRAFFIC SIGNAL MANAGEMENT SYSTEM.
MAINTAIN EXISTING CONTROLLER
SETTINGS FOR TRAFFIC SIGNAL
OPERATIONS.

— INSTALL NEW 35' CLASS 3
WOOD TRAFFIC SIGNAL POLE.
ATTACH SIGNAL SPAN WIRES,
CONDUCTORS, AND TETHER TO POLE.
INSTALL 'GRIDSMART' FISHEYE CAMERA
ON VERTICAL MOUNTING ARM WITH
90-DEGREE BEND ON POLE. CAMERA
MUST BE LOCATED AT 30' OR HIGHER
ABOVE ROAD ELEVATION.

NOTE

CITY OF ROCKLAND WILL BE RESPONSIBLE FOR ANY UPGRADES OF PEDESTRIAN SIGNALS, PUSHBUTTONS, AND OTHER IMPROVEMENTS NECESSARY FOR ADA COMPLIANCE.

SHEET NUMBER

7

OF 7

ROCKLAND
 U.S. ROUTE 1 / HOME DEPOT

SIGNAL PLANS

PROJ. MANAGER	D. COOMBS	BY	DATE
CHECKED-DETAILED	JLE	ALG	2-19
DESIGNED-REVIEWED	ALG		2-19
DESIGNED-DETAILED	E02		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(400)

WIN
18794.00

HIGHWAY PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



ROCKLAND
KNOX COUNTY
U.S. ROUTE 1
NHPP-1879(410)

PLAN LEGEND

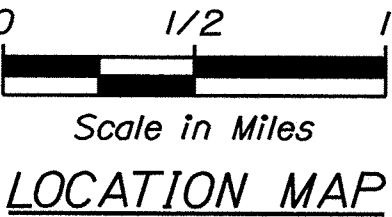
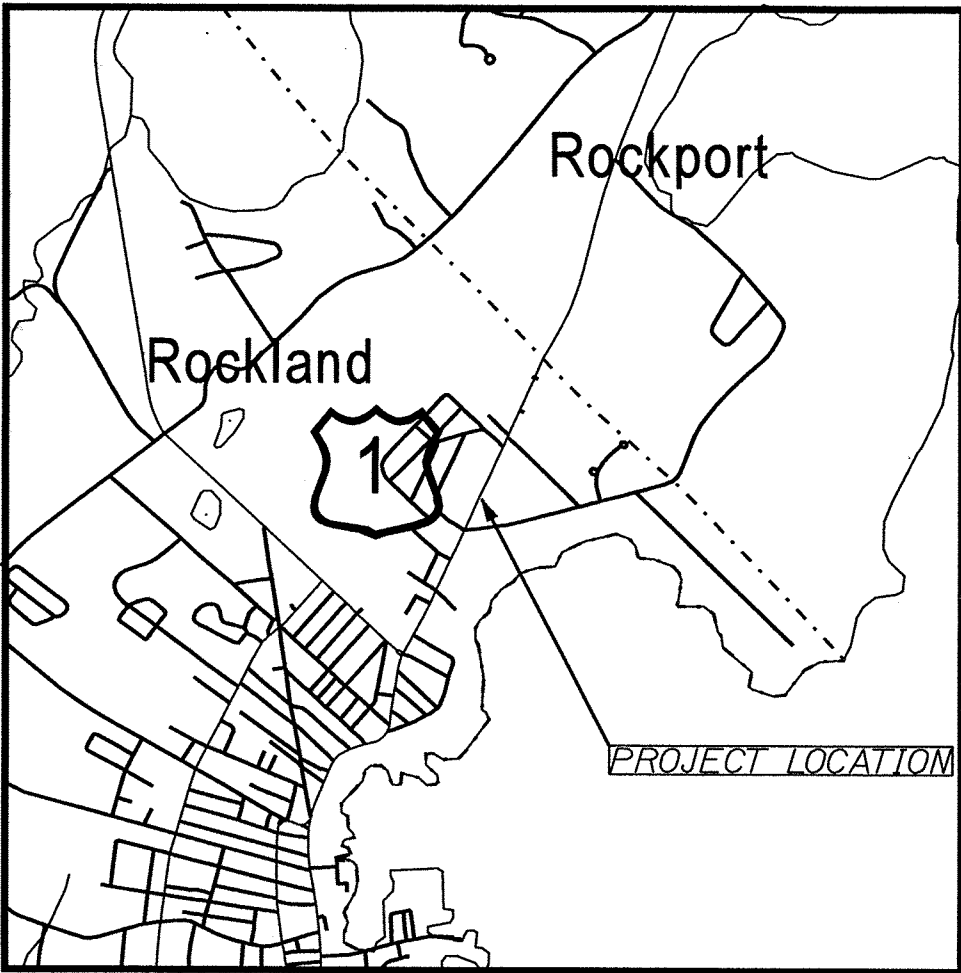
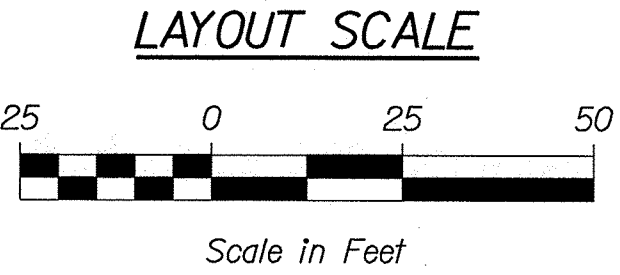
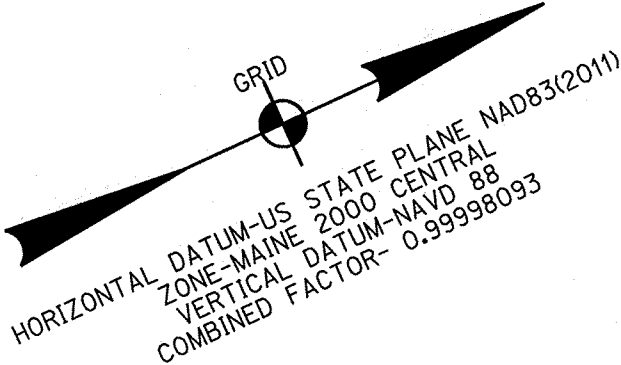
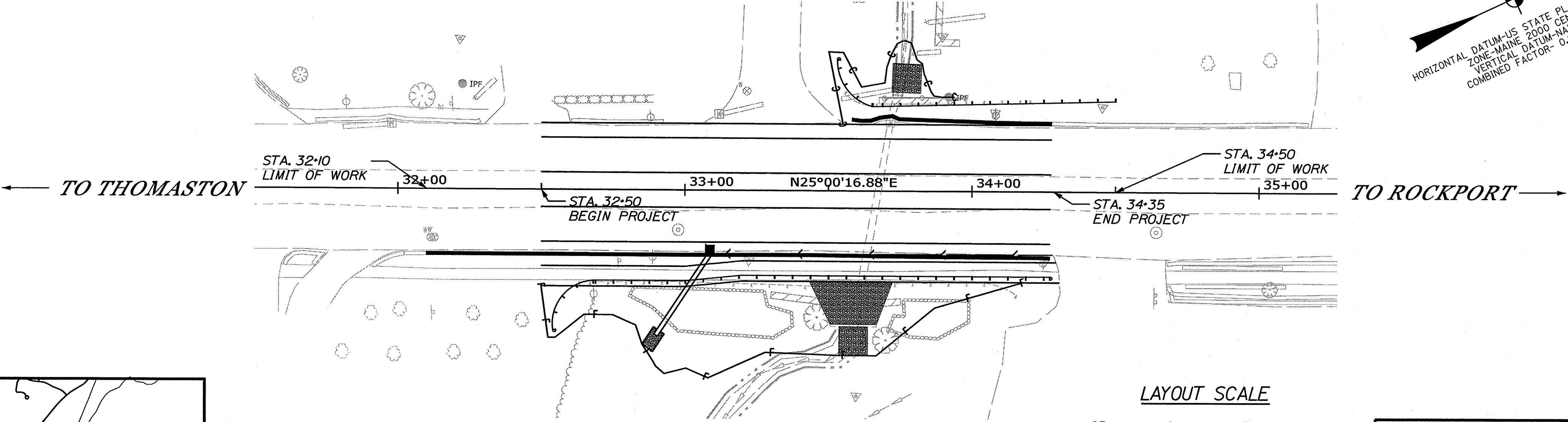
Town, County, State	Catch Basins	Existing	Proposed
Property Lines	Manholes	Existing	Proposed
R/W Lines-Existing	Proposed Underdrain		
R/W Lines-Proposed	Proposed Ditch		
Culvert-Existing	Existing Ditch		
Culvert Proposed	Utility Poles	Existing	Proposed
Curbing	Fire Hydrants	Existing	Proposed
Type 1	Existing Water Line		
Type 3	Existing San. Sewer		
Type 5	Existing San. Sewer Manhole		
Outline of Bodies of Water	Guardrail-Existing		
Exposed Bedrock	Guardrail-Proposed		
Buildings	Guardrail-Cable, Other		
Trees	Centerline-Existing		
Tree Line	Centerline-Proposed		
Clearing Limit Line	Travelway-Existing		
Railroad	Travelway-Proposed		

Boring HB-XXX-###
Pavement Core PC-#
Test Pit TP-XXX-###

Probe P-#.X
#. = Depth
X = W (Weathered Rock)
R (Refusal)
NR (No Refusal)

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
General Notes	2
Plan / Profile	3
Culvert Details	4
Cross - Sections	5-8
Right of Way Map	9



TRAFFIC DATA

Current (2019) AADT	17160
Future (2031) AADT	18190
DHV - % of AADT	11%
Design Hour Volume	2001
% Heavy Trucks (AADT)	3%
Directional Distribution (DHV)	52%
Design Speed (mph)	35
Functional Class:	Other Princ. Arterial
Corridor Priority	1

MATERIALS

Concrete: Structural Concrete Abutments & Retaining Walls Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete: Class P F'c= 5000 psi
Class A F'c= 4,000 psi
Reinforcing Steel: Plain Fy= 60,000 psi

PROJECT LOCATION:

0.1 OF A MILE NORTH OF WALDO AVENUE

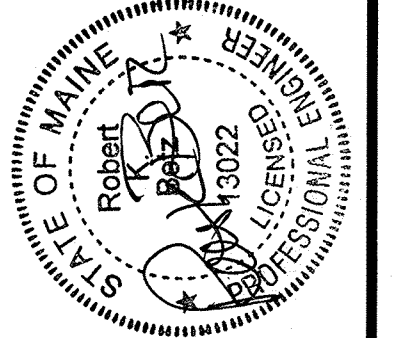
PROGRAM AREA:

HIGHWAY PROGRAM

SCOPE OF WORK:

LARGE CULVERT IMPROVEMENT

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
		3/27/19
COMMISSIONER:		CHIEF ENGINEER:



SIGNATURE	P.E. NUMBER	DATE
	13022	3/15/19

PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
HIGHWAY	D. COOMBS	D. PRIDE					

ROCKLAND U.S. ROUTE 1	TITLE SHEET
--------------------------	-------------

SHEET NUMBER

1

OF 9

WIN 18794.10 NHPP-1879(410)

Date: 3/14/2019

Username: Kyle MacDonald

Division: HIGHWAY

Filename: ... \HIGHWAY\MSTA\001_Title_2.dgn

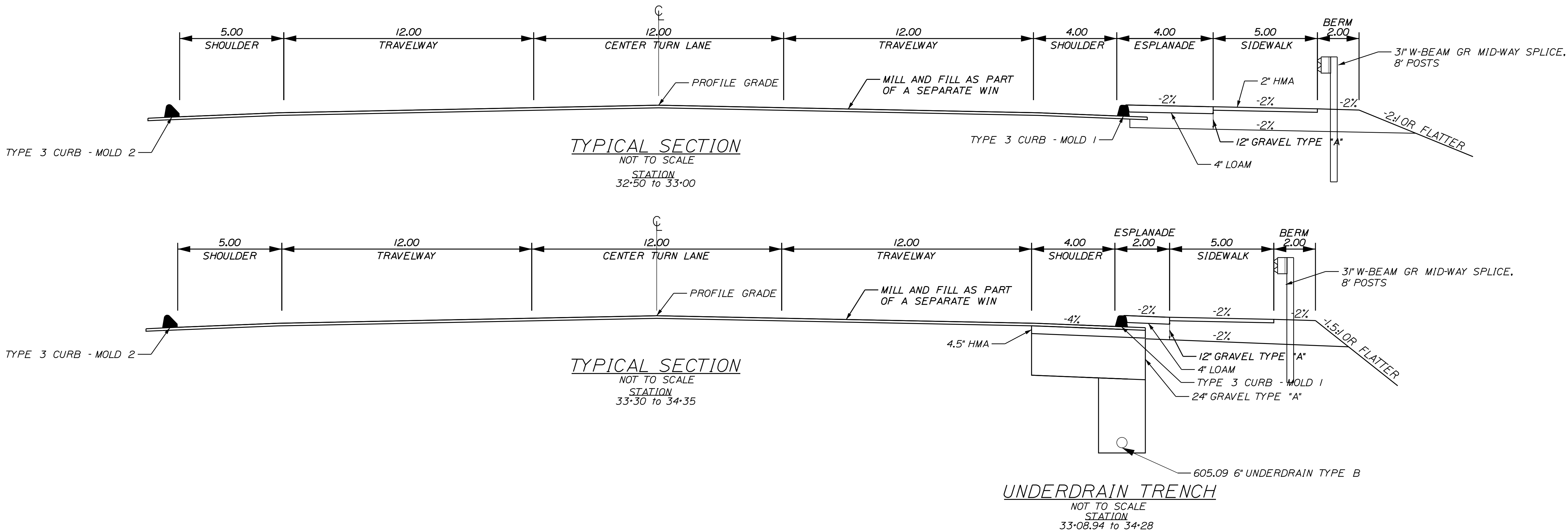
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 Division: HIGHWAY
 Username: Kyle.MacDonald
 Date: 3/14/2019

GENERAL NOTES

REFERENCE CONTRACT BOOK

CONSTRUCTION NOTES

REFERENCE CONTRACT BOOK



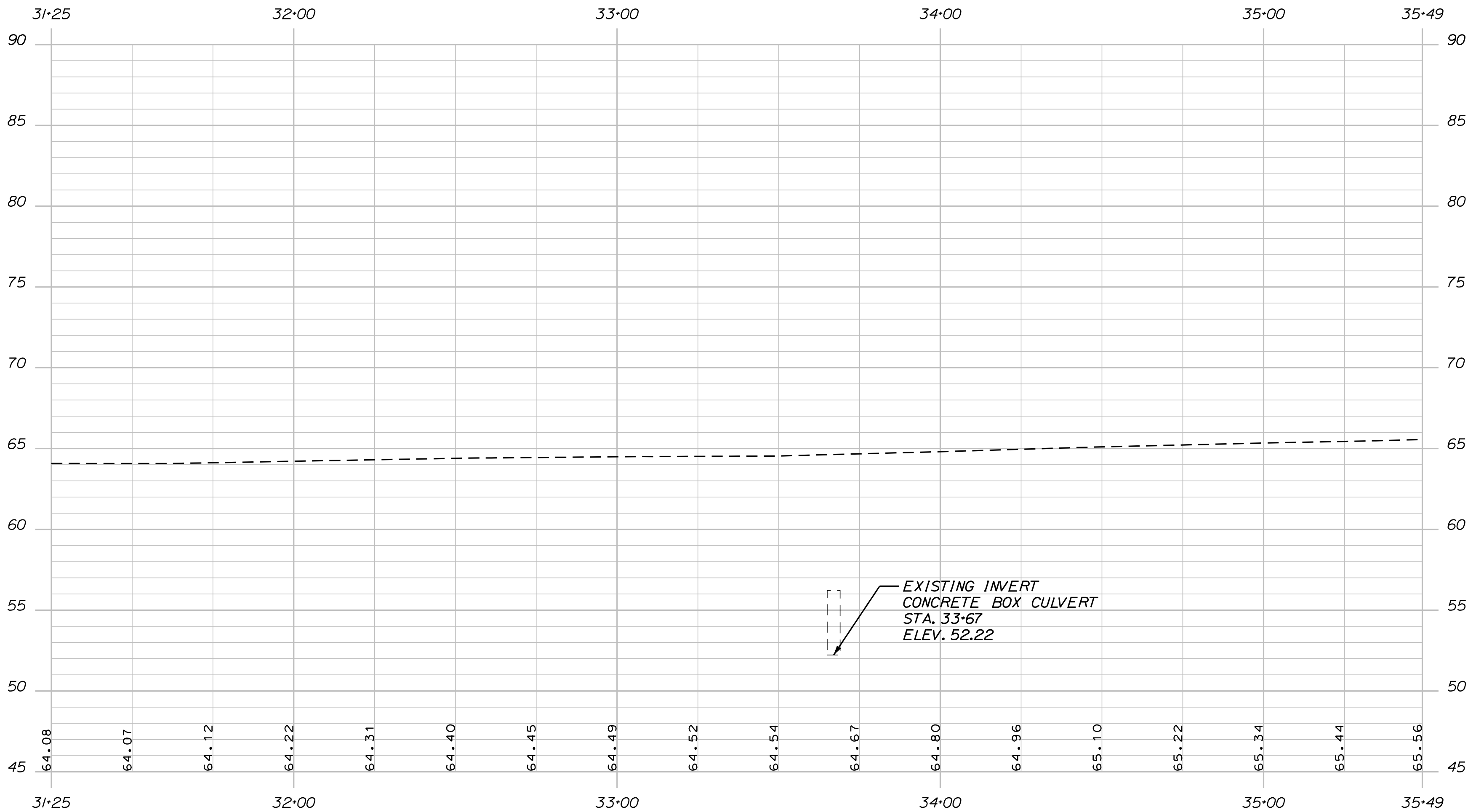
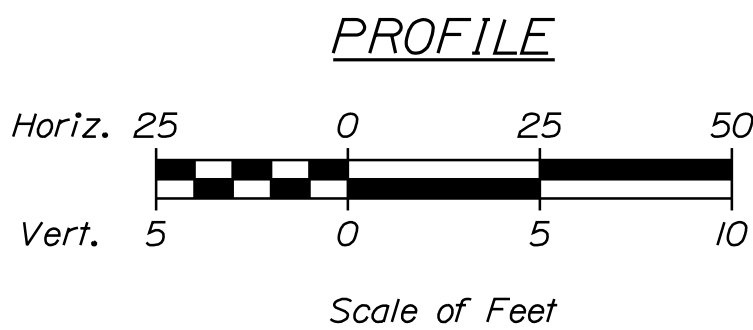
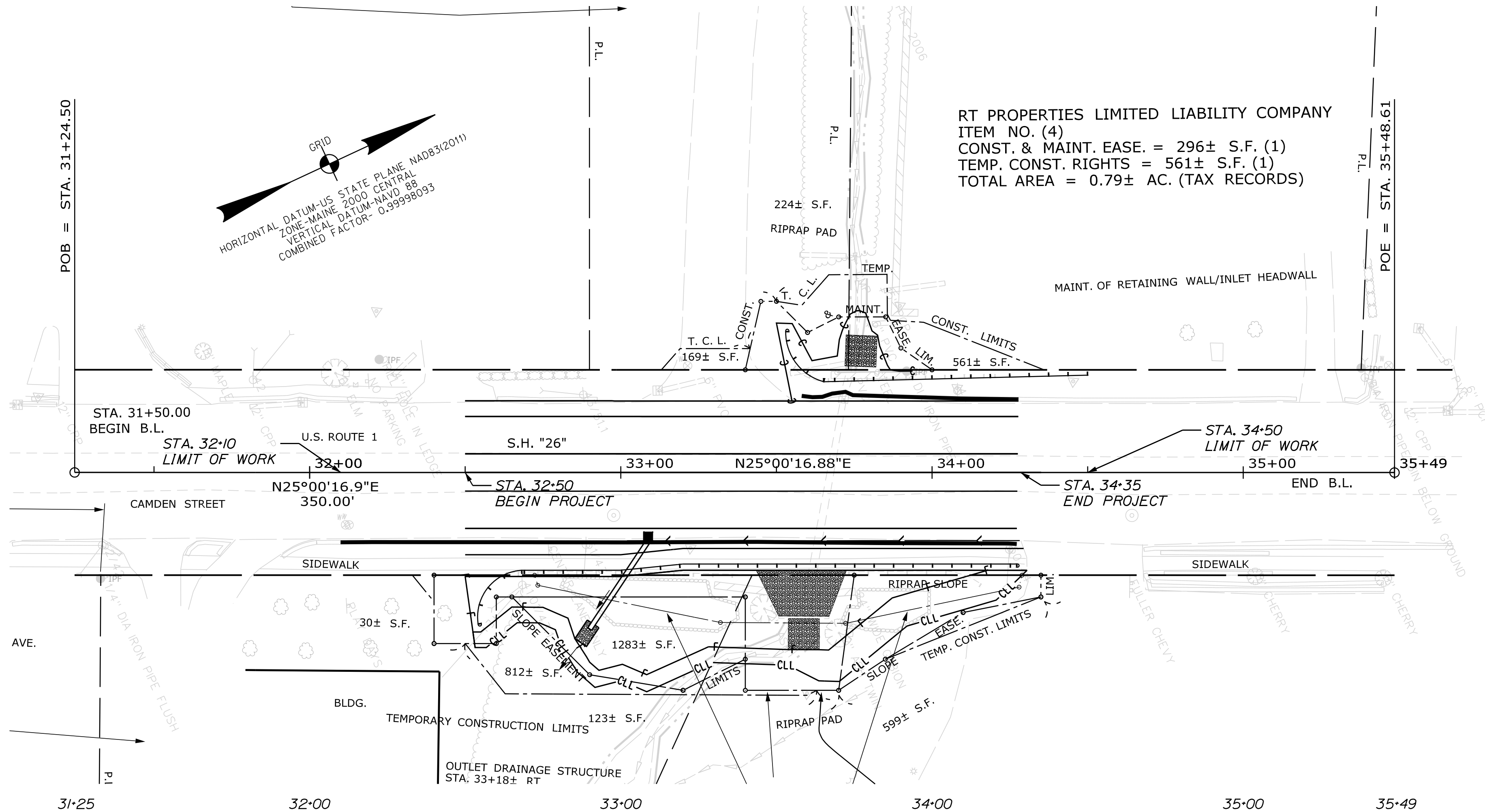
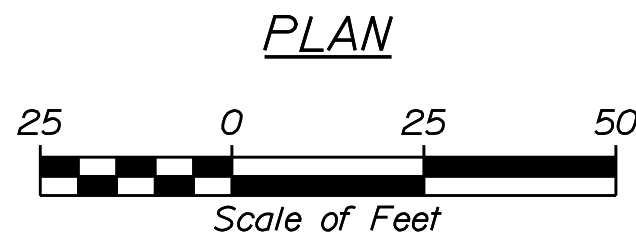
OF 9		SHEET NUMBER		ROCKLAND U.S. ROUTE 1		PROJ. MANAGER D. COOMBS		BY		DATE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
						DESIGN-DETAILED D. PRIDE							
						CHECKED-REVIEWED DESIGN2-DETAILED2 C. RUSSELL		T. WHITE		JUN 2017		SIGNATURE	
						DESIGN3-DETAILED3						P.E. NUMBER	
						REVISIONS 1							
						REVISIONS 2							
						REVISIONS 3							
						REVISIONS 4							
						FIELD CHANGES						WIN 18794.10	
												HIGHWAY PLANS	

Date: 3/14/2019

Username: Kyle MacDonald

Division: HIGHWAY

Filename: ... \MSTA\003_Plan-Profile.dgn



PROFILE

PROJ. MANAGER	D. COOMBS	BY	DATE
DESIGN-DETAILED	D. PROJE		OCT 2018
CHECKED-REVIEWED	C. RUSSELL	T. WHITE	JUN 2017
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

ROCKLAND U.S. ROUTE 1 PLANS

EXISTING ELEVATION of HEADWALL
(Upstream Face)

SECTION A - A (As Shown)

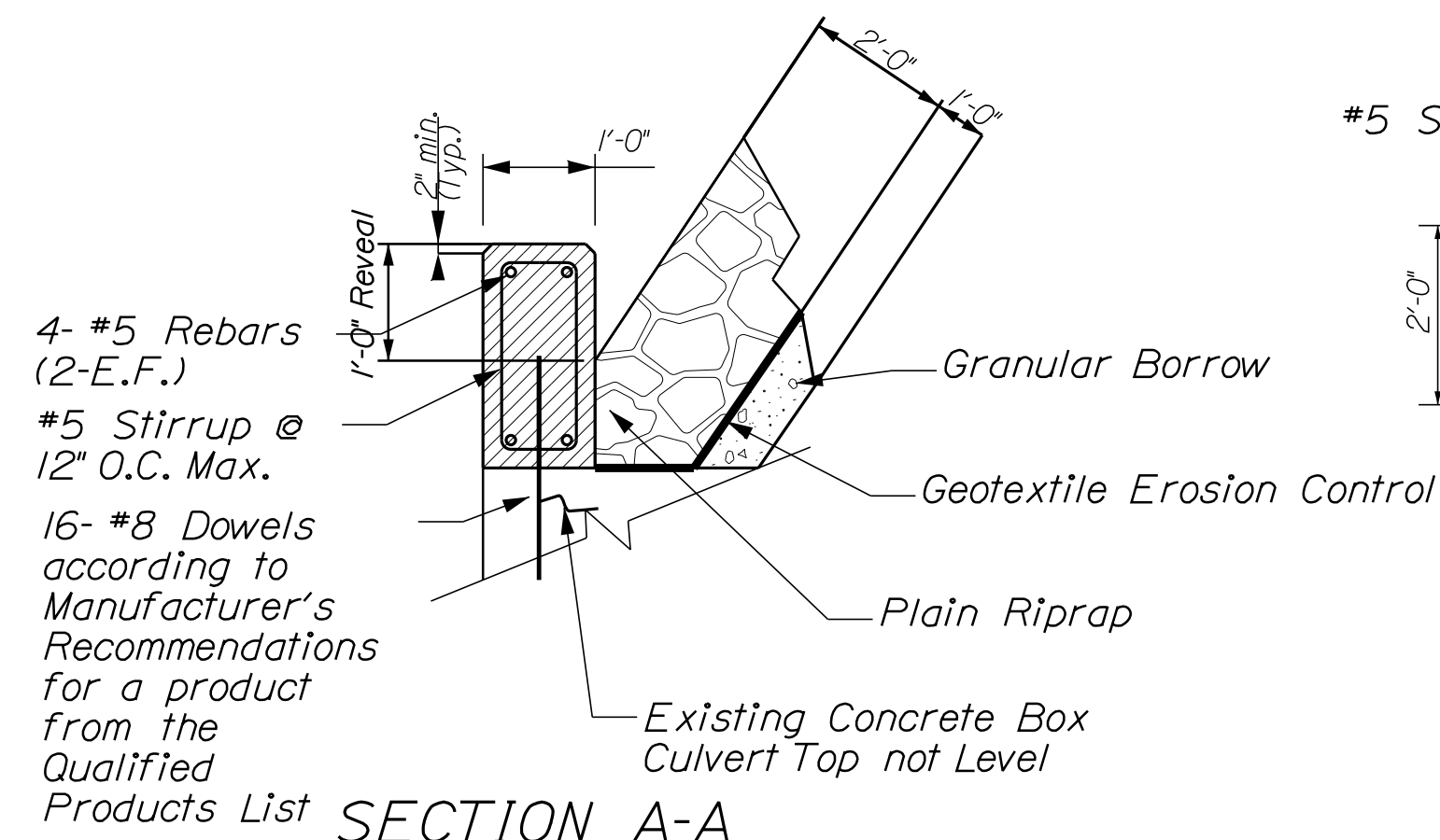
SECTION B - B (Opposite hand)

NOTE: No Inlet pipe on this side

EXISTING ELEVATION of HEADWALL

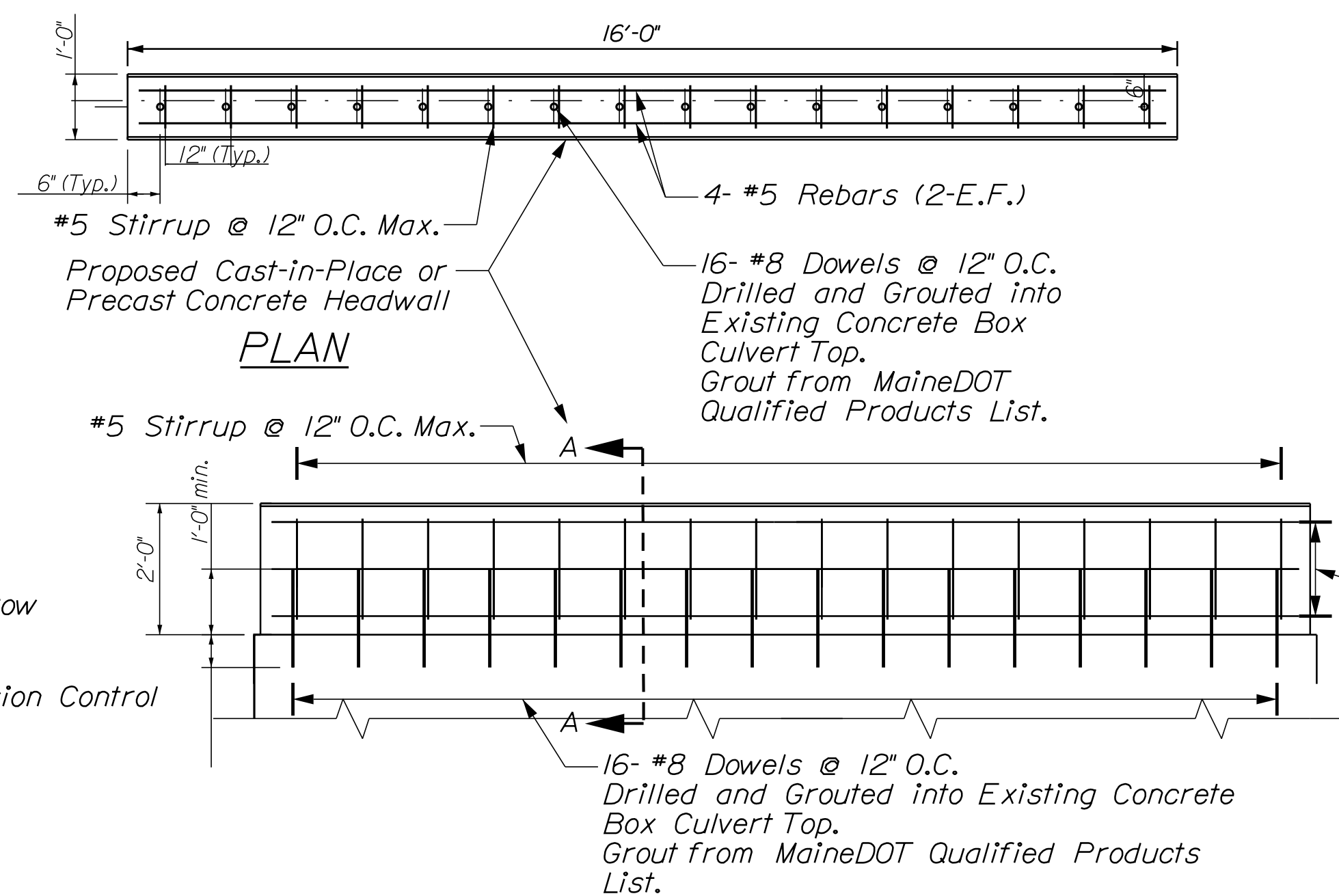
Notes:

1. 2" min. Clearance of All Rebar to Outside Edge of Finished Concrete.
2. Chamfer Top Edges of Concrete Headwall.

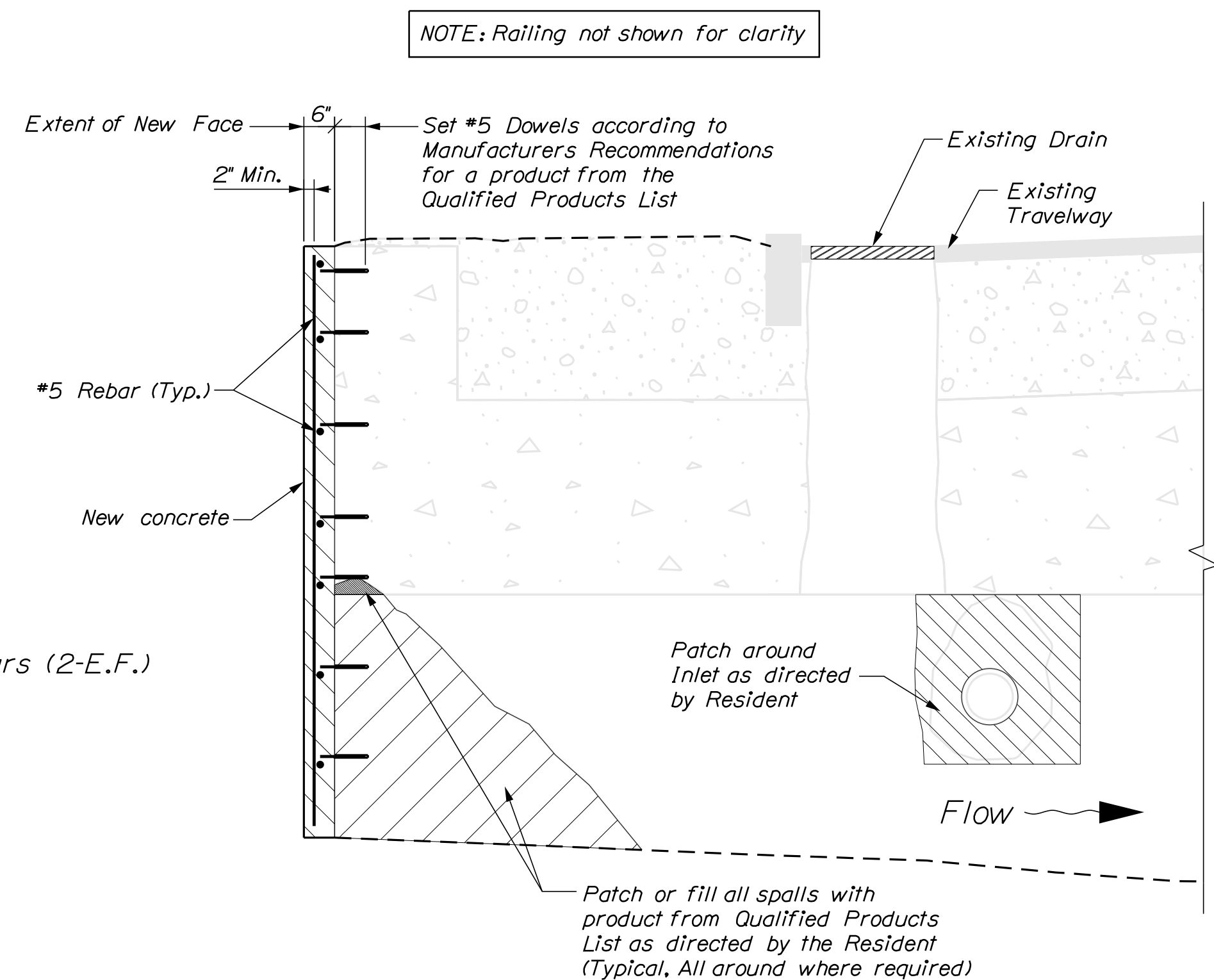


SECTION A-A

CAST-IN-PLACE or PRECAST CONCRETE HEADWALL
(Downstream Face)



ELEVATION



SECTION C - C (As Shown)

SECTION D - D (Opposite hand)

NOTE: No Inlet pipe on this side

STATE OF ARIZONA	
DEPARTMENT OF TRANSPORTATION	
NHPP-1879(410)	
WIN	
18794.10	HIGHWAY PLANS

DESIGN-DETAILED	D	PROJ#							
CHECKED (REVIEWED)									
DESIGN2-DETAILED2	C	RUSSELL	I. WHITE	JUN 2017	SIGNATURE				
DESIGN3-DETAILED3	G	Libby	J. Velleux	Sept. 2018					
REVISIONS 1					P.E. NUMBER				
REVISIONS 2									
REVISIONS 3					DATE				
REVISIONS 4									
FIELD CHANGES									

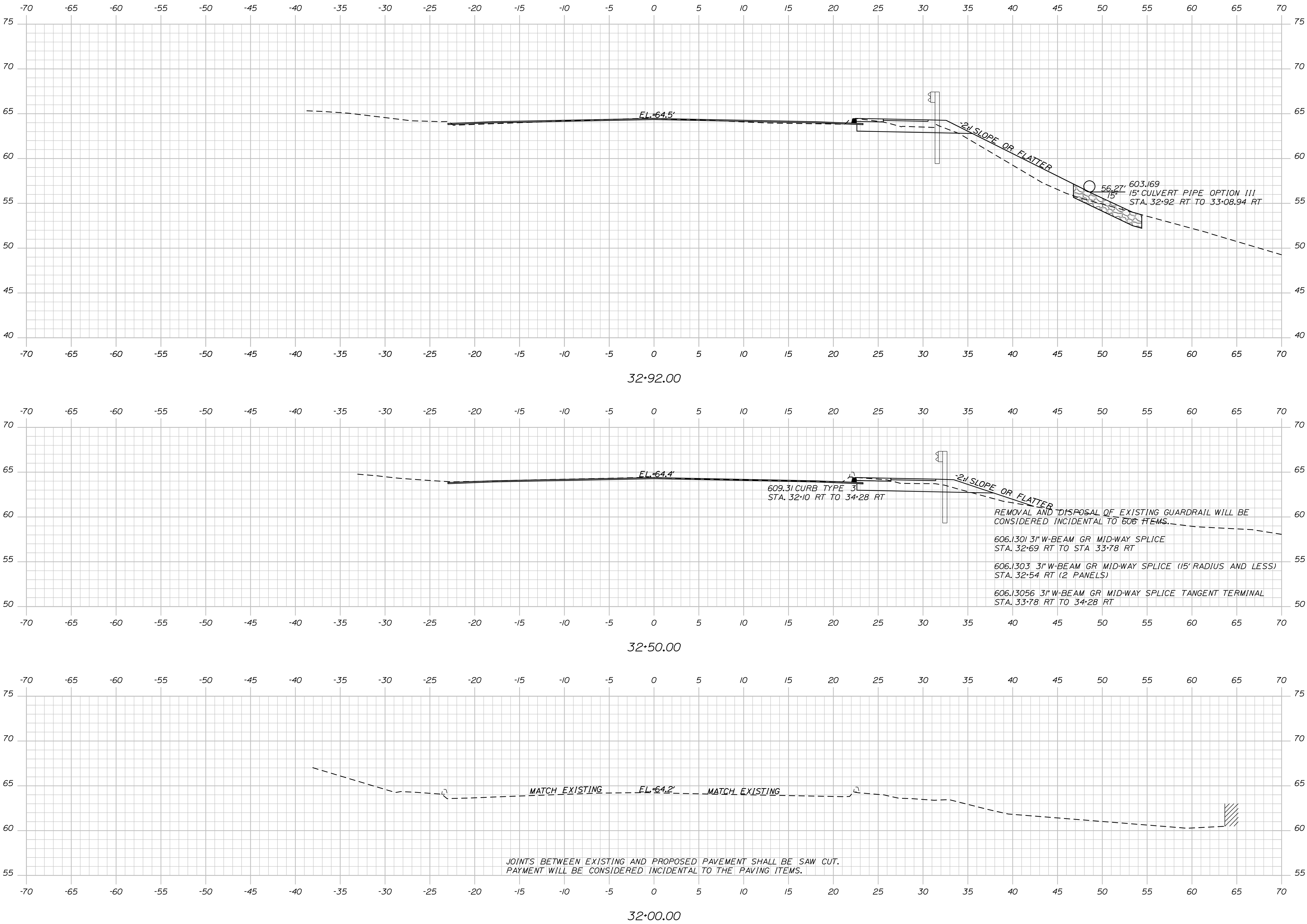
ROCKLAND
U.S. ROUTE 1

REINFORCEMENT AND REPAIR DETAILS

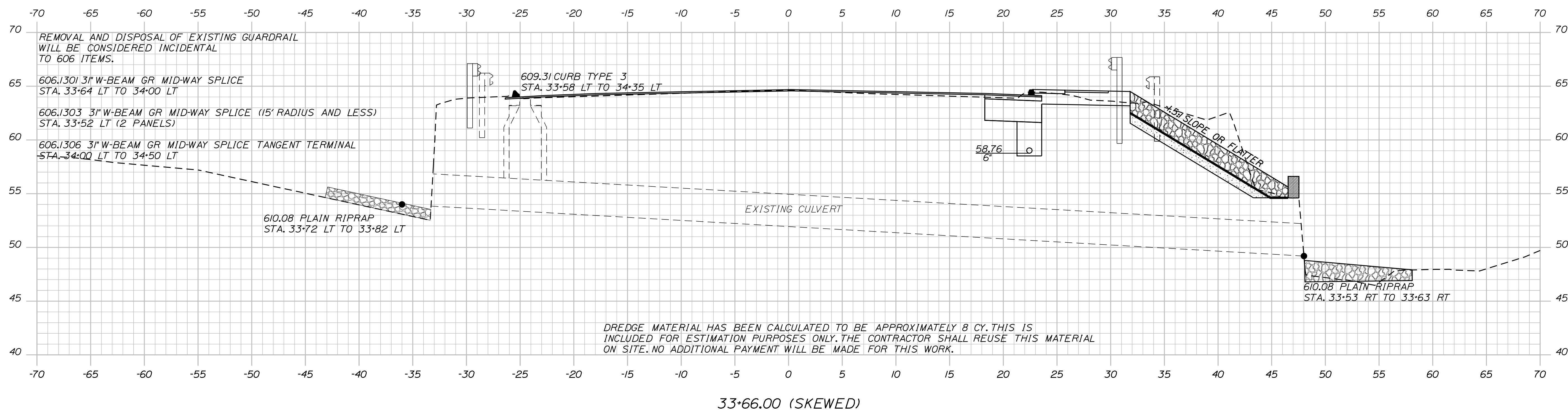
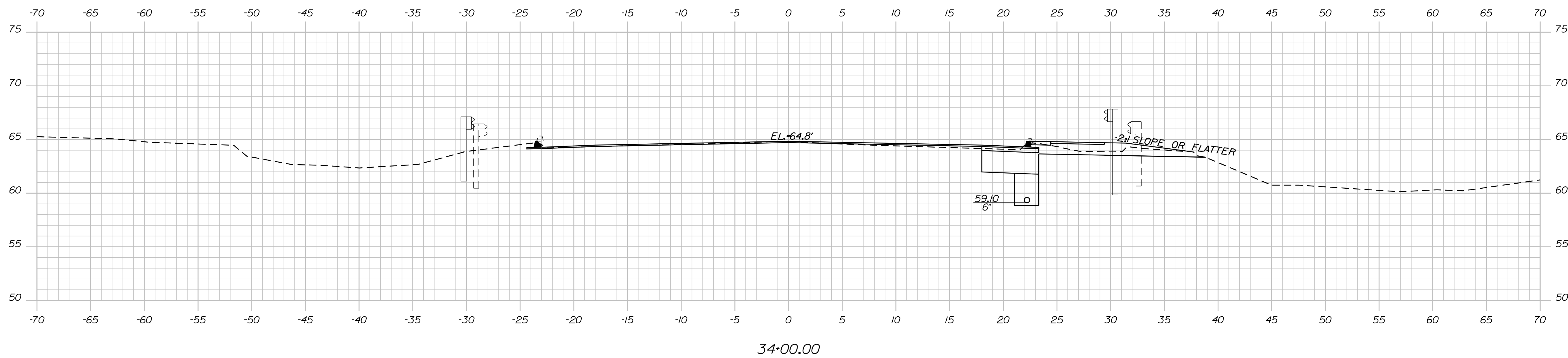
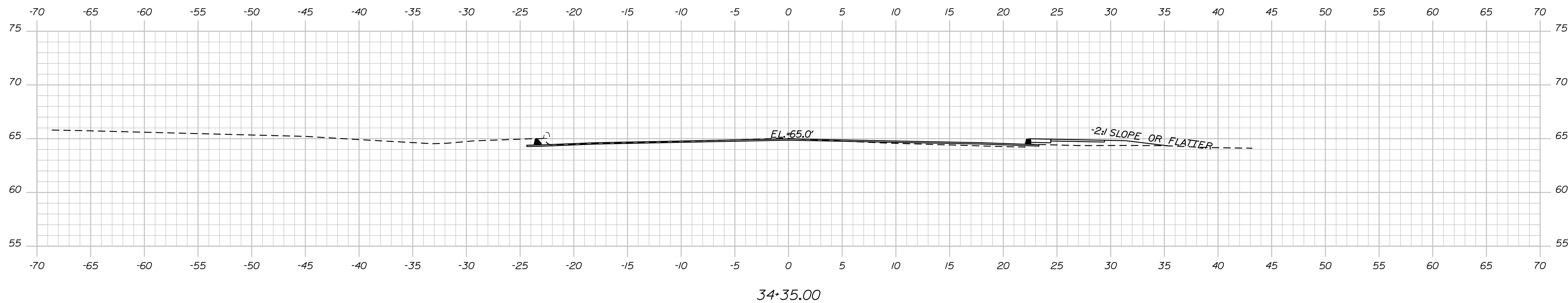
SHEET NUMBER

4

F 9



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		NHP-1879(410)		WIN		18794.10		HIGHWAY PLANS	
ROCKLAND		U.S. ROUTE 1		CROSS SECTIONS		SHEET NUMBER		5		OF 9	
PROJ. MANAGER		D. COOMBS		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		D. PRICE		OCT 2018							
CHECKED-REVIEWED											
DESIGN-DETAILED											
REVISIONS 1											
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											



STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

NHPP-1879(410)

WI

HIGHWAY PLANS

ROCKLAND
U.S. ROUTE 1

CROSS SECTIONS

SHEET NUMBER

7

OF 9

Sta. 33+66.00 to Sta. 34+35.00

Date: 3/14/2019

Username: Kyle.MacDonald

Division: HIGHWAY

Filename: ...\\00\\ROW\\MSTA001_RWP\\PLAN1.dgn

