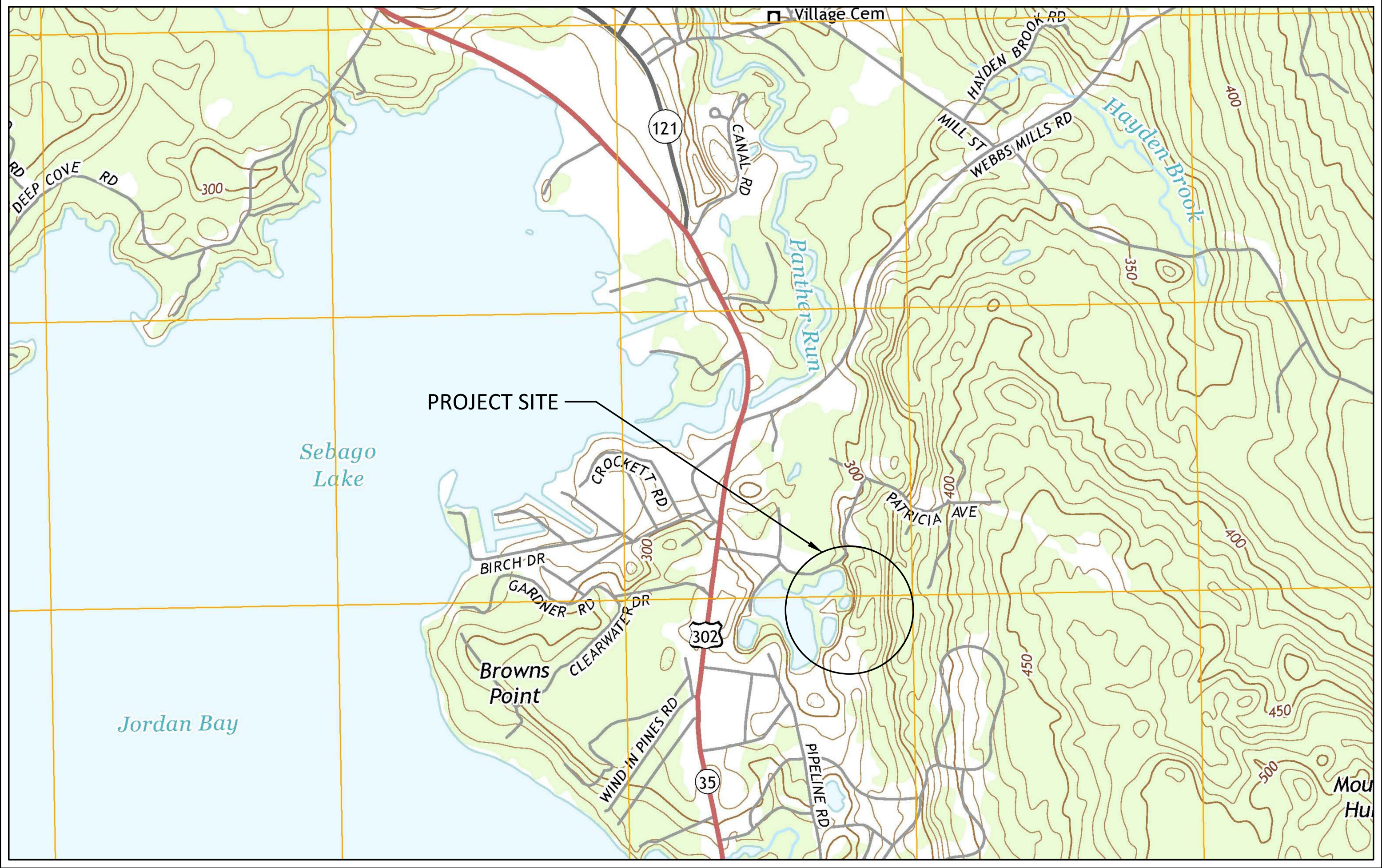


AMENDED SUBDIVISION PIPELINE ROAD AND PATRICIA AVENUE

PIPELINE ROAD AND PATRICIA AVENUE
RAYMOND, MAINE

CONSULTANTS	
CIVIL ENGINEER	DM ROMA CONSULTING ENGINEERS
LAND SURVEYOR	LAND SERVICES INC. / SURVEY INC.
SITE EVALUATOR	DENMARK WASTEWATER SOLUTIONS, LLC.



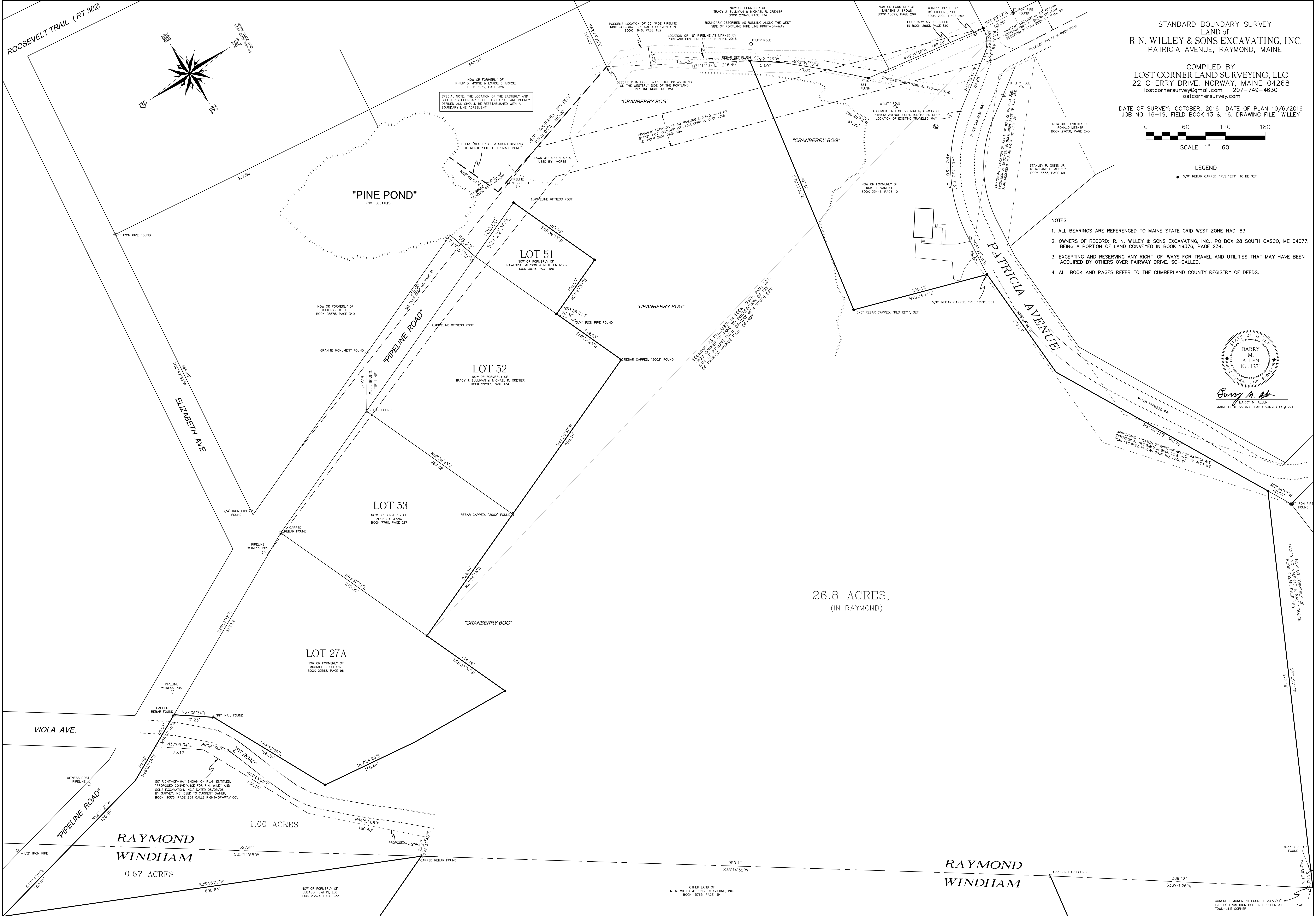
PROJECT VICINITY MAP

ISSUED FOR PRELIMINARY REVIEW - NOT FOR CONSTRUCTION
APRIL 14, 2021

APPLICANT:
R.N. WILEY & SONS, INC.
P.O. BOX 28, 13 SCOTT DRIVE
SOUTH CASCO, MAINE 04077

PIPELINE ROAD AND PATRICIA AVENUE
DRAWING SHEET INDEX

PAGE NO.	DESCRIPTION
1	TITLE SHEET
2	SUBDIVISION PLAN
3	AMENDED SUBDIVISION PLAN
4	PLAN & PROFILE
5	PLAN & PROFILE
6	POND PLAN
7	DETAIL SHEET
8	DETAIL SHEET



STANDARD BOUNDARY SURVEY
LAND of
R N. WILLEY & SONS EXCAVATING, INC.
PATRICIA AVENUE, RAYMOND, MAINE

COMPILED BY
LOST CORNER LAND SURVEYING, LLC
22 CHERRY DRIVE, NORWAY, MAINE 04268
lostcornersurvey@gmail.com 207-749-4630
lostcornersurvey.com

DATE OF SURVEY: OCTOBER, 2016 DATE OF PLAN 10/6/2016
JOB NO. 16-19, FIELD BOOK:13 & 16, DRAWING FILE: WILLEY



LEGEND

- 5/8" REBAR CAPPED, "PLS 1271", TO BE SET

NOTES

- ALL BEARINGS ARE REFERENCED TO MAINE STATE GRID WEST ZONE NAD-83.
- OWNERS OF RECORD: R. N. WILLEY & SONS EXCAVATING, INC., PO BOX 28 SOUTH CASCO, ME 04077, BEING A PORTION OF LAND CONVEYED IN BOOK 19376, PAGE 234.
- EXCEPTING AND RESERVING ANY RIGHT-OF-WAYS FOR TRAVEL AND UTILITIES THAT MAY HAVE BEEN ACQUIRED BY OTHERS OVER FAIRWAY DRIVE, SO-CALLED.
- ALL BOOK AND PAGES REFER TO THE CUMBERLAND COUNTY REGISTRY OF DEEDS.



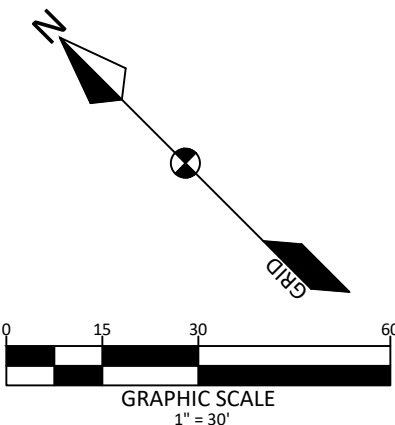
Barry M. Allen
BARRY M. ALLEN
MAINE PROFESSIONAL LAND SURVEYOR #1271

26.8 ACRES, +-
(IN RAYMOND)

RAYMOND
WINDHAM

RAYMOND
WINDHAM

CONCRETE MONUMENT FOUND S 34°53'41" W
130.14' FROM IRON BOLT IN BOULDER AT
TOWN-LINE CORNER



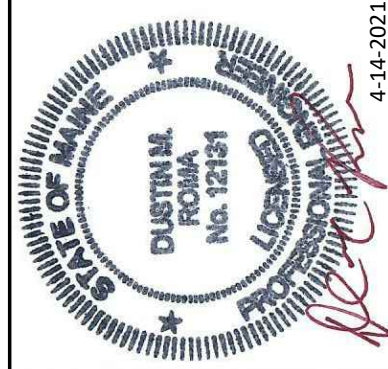
ROAD PLAN VIEW

SCALE: HORIZ.: 1"=30'

- ## CONSTRUCTION NOTES:
1. REFER TO THE 200 PLAN FOR SIZING, LOCATION AND CONSTRUCTION SPECIFICATIONS FOR ALL PROPOSED SUBSURFACE WASTEWATER DISPOSAL DEVICES.
 2. ELECTRICAL SERVICES INCLUDING, BUT NOT LIMITED TO, TRANSFORMERS AND CONDUIT LOCATIONS ARE THE ENGINEER'S SUGGESTED LOCATIONS BUT MUST BE COORDINATED WITH CENTRAL MAINE POWER COMPANY. REFER TO PLANS ISSUED BY CENTRAL MAINE POWER COMPANY FOR LOCATIONS OF ELECTRICAL INFRASTRUCTURE.
 3. PRIOR TO CONSTRUCTION, THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF RAYMOND. CONTACT THE PLANNING DEPARTMENT TO SCHEDULE THE MEETING AND OBTAIN A MEETING AGENDA. ANY OTHER REQUIRED PRE-CONSTRUCTION ACTIVITIES.
 4. XXX STREET HAS BEEN DESIGNED TO THE TOWN OF RAYMOND STANDARD STREET STANDARD.
 5. EXISTING UTILITIES SHOWN HEREON ARE BASED ON LOCATING VISUAL EVIDENCE DURING A FIELD SURVEY OF EXISTING CONDITIONS. OTHER UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR CONTACTING DIS NOT SHOWN.



LEGEND		
EXISTING		PROPOSED
_____	PROPERTY LINE/R.O.W.	_____
_____	ABUTTER PROPERTY LINE	_____
_____	EASEMENT LINE	_____
_____	CENTERLINE	_____
=====	BUILDING	=====
=====	EDGE OF PAVEMENT/CURB	=====
-----	EDGE OF GRAVEL	-----
_____	SIGN	_____
	EDGE OF WETLANDS	
-200'- -201'-	CONTOUR LINE	-200 -201
~~~~~	TREELINE	~~~~~
TP-1+ 	TEST PIT	
=====	CULVERT/STORMDRAIN	=====
	WELL	
	UTILITY POLE	
-OHU-	OVERHEAD UTILITIES	
-UGU-	UNDERGROUND UTILITIES	-UGU-
	TRANSFER PAD	
	RIPRAP	
	SILT FENCE	



**DM ROMA**  
CONSULTING ENGINEERS  
P.O. BOX 1116  
WINDHAM, ME 04062  
(207) 310 - 0506

[illegible]

**PLAN AND PROFILE**  
PIPELINE ROAD AND PATRICIA AVENUE  
RAYMOND, MAINE  
FOR RECORD OWNER:  
R. N. WILEY & SONS, INC.  
P.O. BOX 28, 13 SCOTT DRIVE

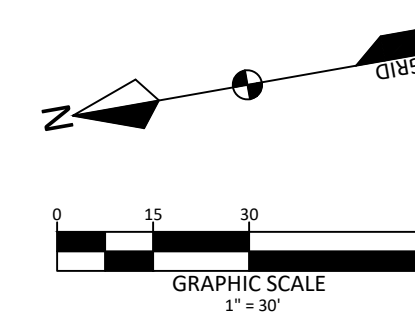
16041

AS NOTED

4-2021

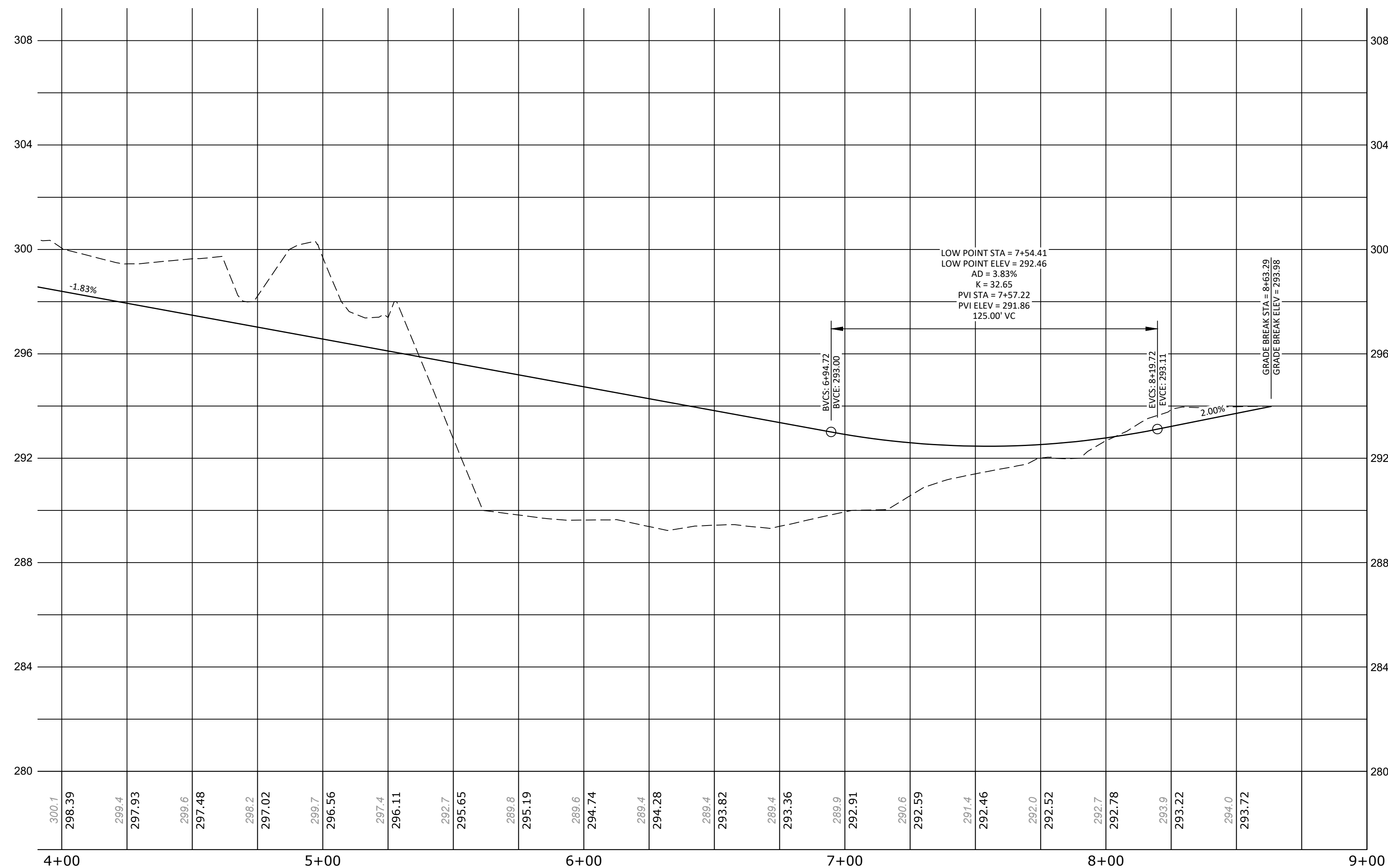
SHEET 4 OF 8

PP-1



ROAD PLAN VIEW  
SCALE: 1"=30'

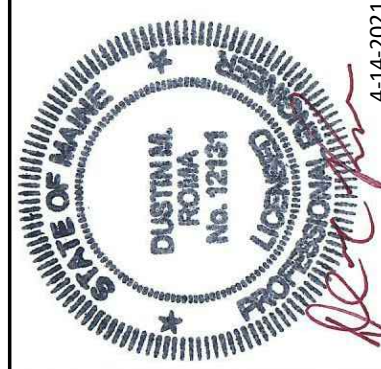
- ## CONSTRUCTION NOTES:
1. REFER TO HHE-200S PLANS FOR SIZING, LOCATION AND CONSTRUCTION SPECIFICATIONS FOR ALL PROPOSED SUBSURFACE WASTEWATER DISPOSAL.
  2. ALL SERVICES SHOWN INCLUDING, BUT NOT LIMITED TO, TRANSFORMERS AND CONDUIT LOCATIONS ARE THE ENGINEER'S SUGGESTED LOCATIONS BUT MUST BE COORDINATED WITH THE RAYMOND POWER PLANT MANAGER. REFER TO PLANS ISSUED BY CMP FOR APPROVED LOCATIONS OF ELECTRICAL INFRASTRUCTURE.
  3. PRIOR TO CONSTRUCTION, THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE TOWN OF RAYMOND, ELECTIONS PLANNING DEPARTMENT TO SCHEDULE THE MEETING AND COORDINATE ANY OTHER REQUIRED PRE-CONSTRUCTION ACTIVITIES.
  4. THE STREET HAS BEEN DESIGNED TO THE TOWN OF RAYMOND MINIMUM STREET STANDARDS.
  5. EXISTING UTILITIES SHOWN HEREON ARE BASED ON LOCATING VISUAL EVIDENCE DURING A FIELD SURVEY OF EXISTING UTILITIES. OTHER UTILITIES NOT SHOWN HEREON ARE NOT SHOWN ON THIS PLAN. PRIOR TO CONSTRUCTION, THE CONTRACTOR/OWNER IS RESPONSIBLE FOR CONTACTING DIS SAFE.



# ROAD PROFILE

SCALE: HORIZ.: 1"=30'  
VERT.: 1"=3'

LEGEND		
EXISTING		PROPOSED
————	PROPERTY LINE/R.O.W.	————
————	ABUTTER PROPERTY LINE	————
————	EASEMENT LINE	————
————	CENTERLINE	————
=====	BUILDING	=====
=====	EDGE OF PAVEMENT/CURB	=====
-----	EDGE OF GRAVEL	-----
————	SIGN	————
————	EDGE OF WETLANDS	————
—200— —201—	CONTOUR LINE	—200— —201—
~~~~~	TREELINE	~~~~~
TP-1	TEST PIT	
=====	CULVERT/STORMDRAIN	=====
=====	WELL	=====
⊕	UTILITY POLE	⊕
OHU	OVERHEAD UTILITIES	OHU
UGU	UNDERGROUND UTILITIES	UGU
=====	TRANSFORMER PAD	=====
⊕	RIPRAP	⊕
=====	SILT FENCE	=====



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REV	DATE	BY	DESCRIPTION
A	4-14-21	DMR	ISSUED FOR TOWN REVIEW

PLAN AND PROFILE

PIPELINE ROAD AND PATRICIA AVENUE
RAYMOND, MAINE

FOR RECORD OWNER:
R. N. WILEY & SONS, INC.
P.O. BOX 28, 13 SCOTT DRIVE
SOUTH CASCO, MAINE 04077

16041
JOB NUMBER:

AS NOTED

SCALE:

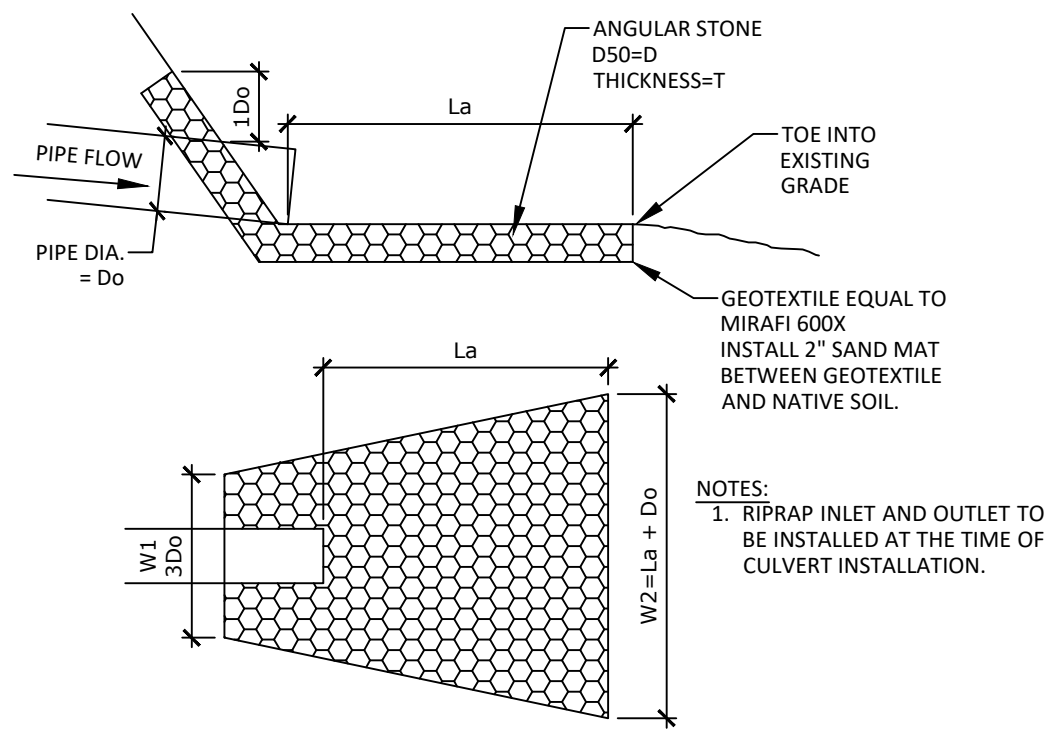
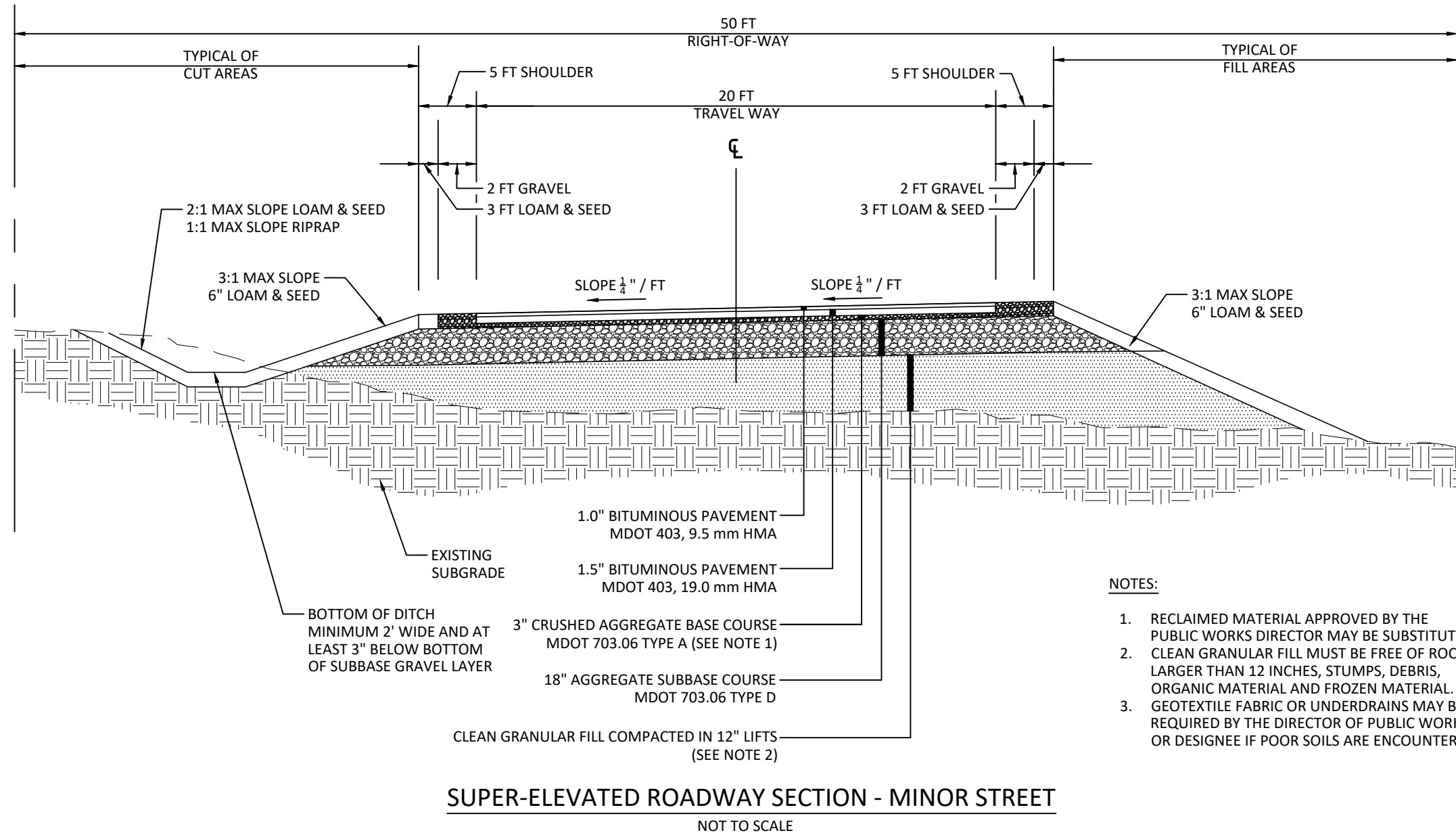
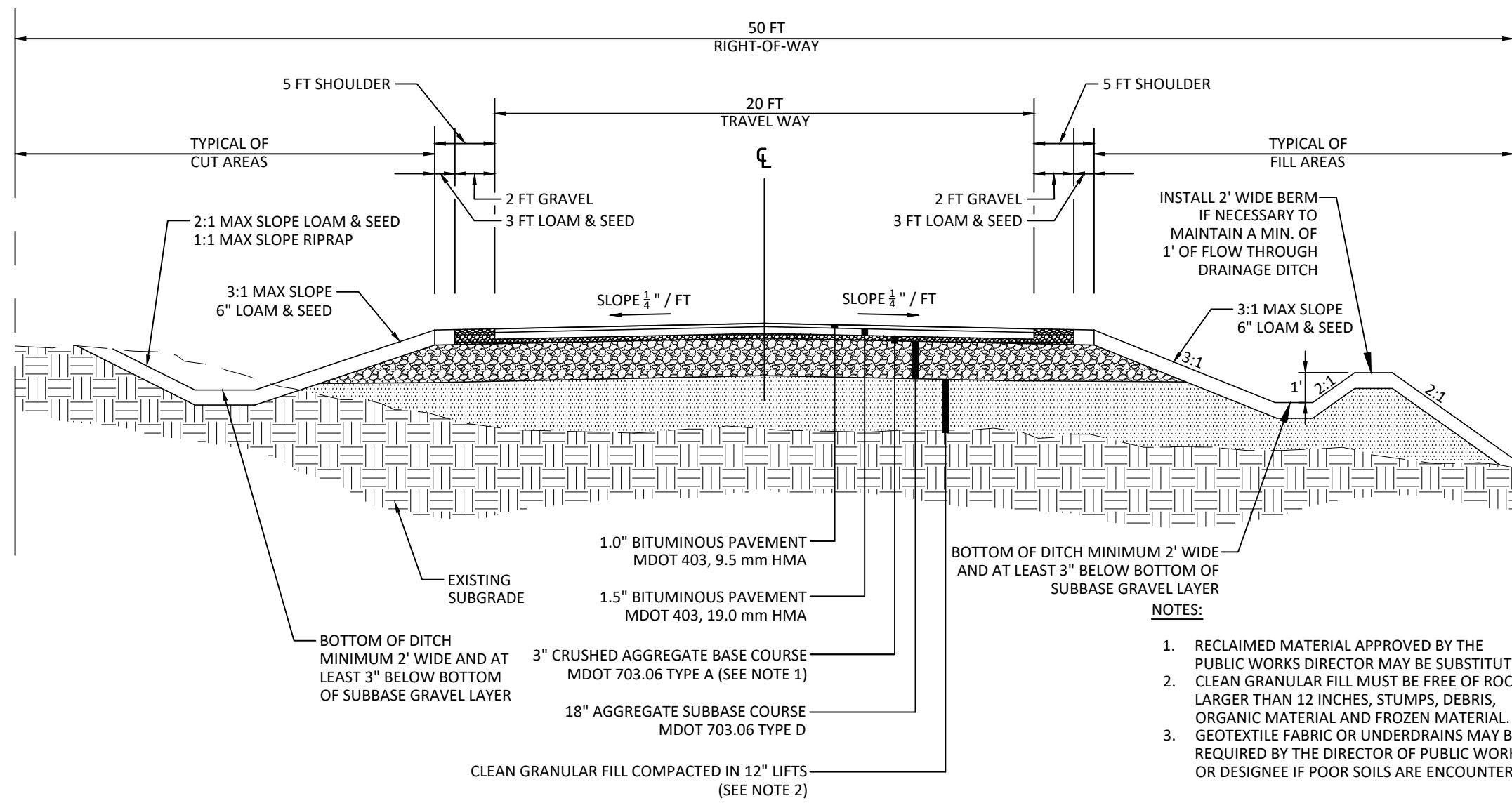
4-14-2021

DATE: _____

SHEET 5 OF 8

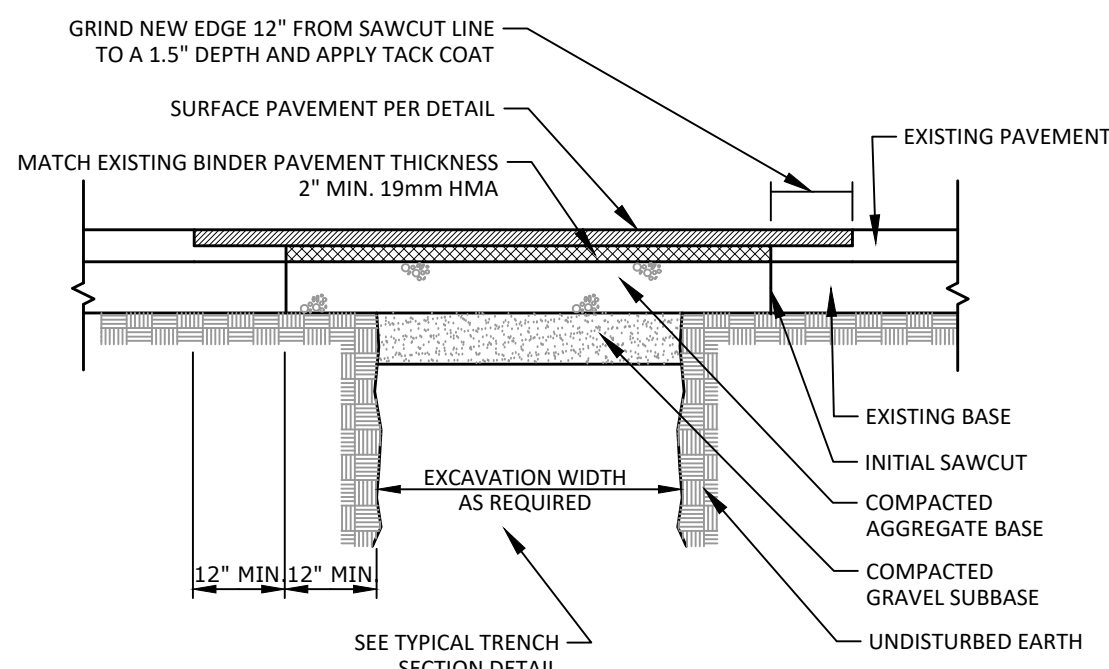
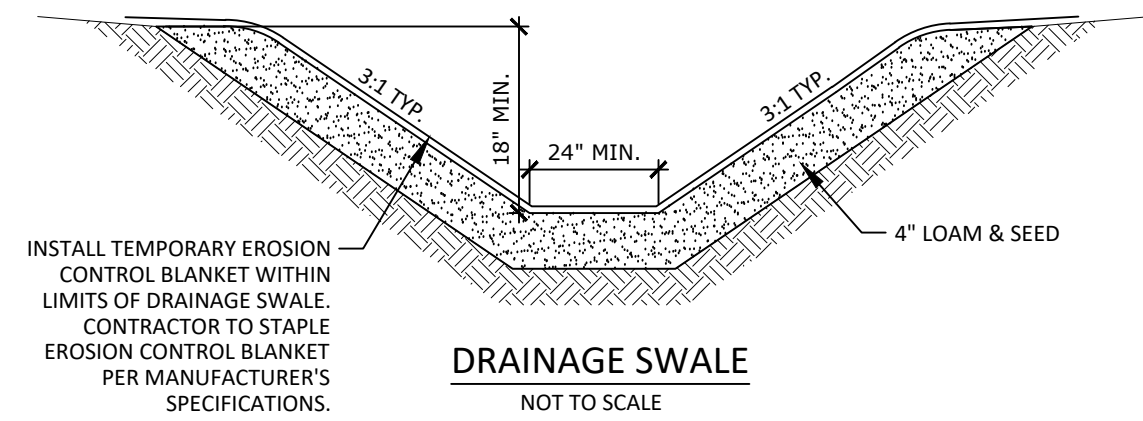
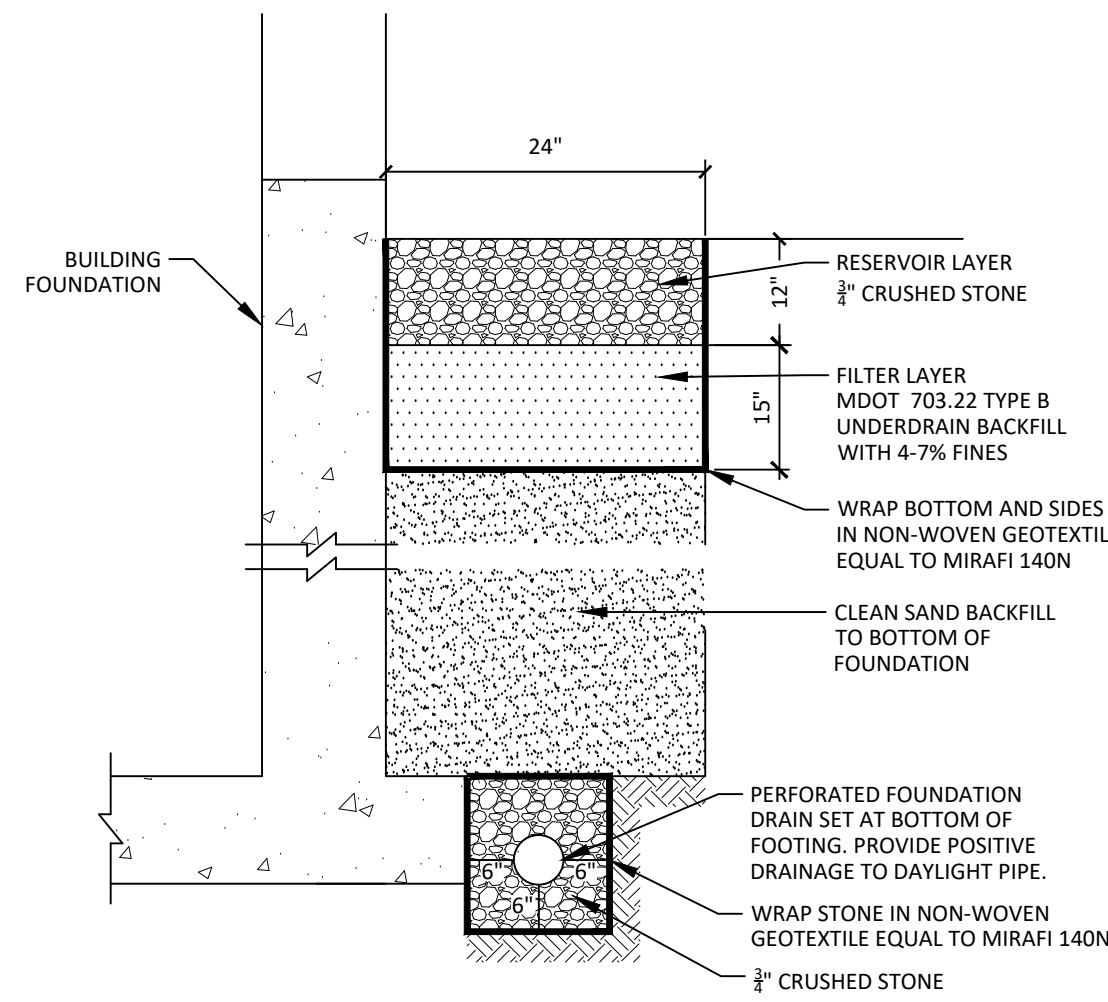
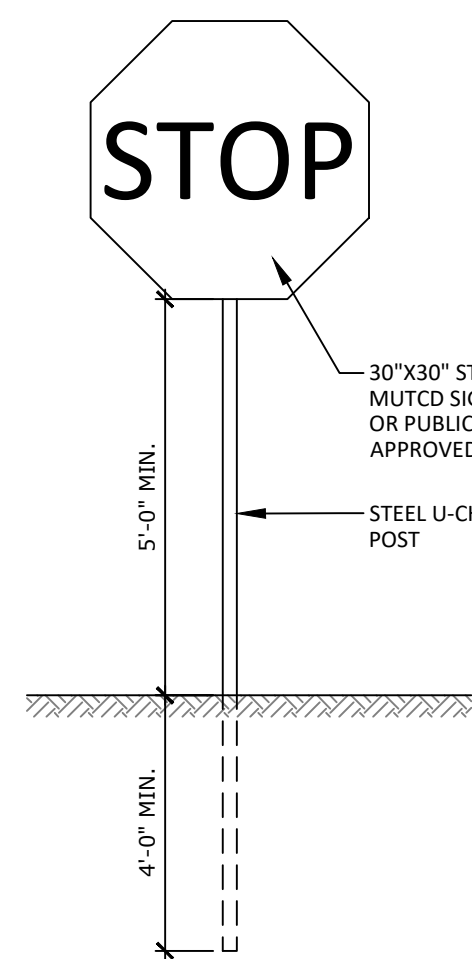
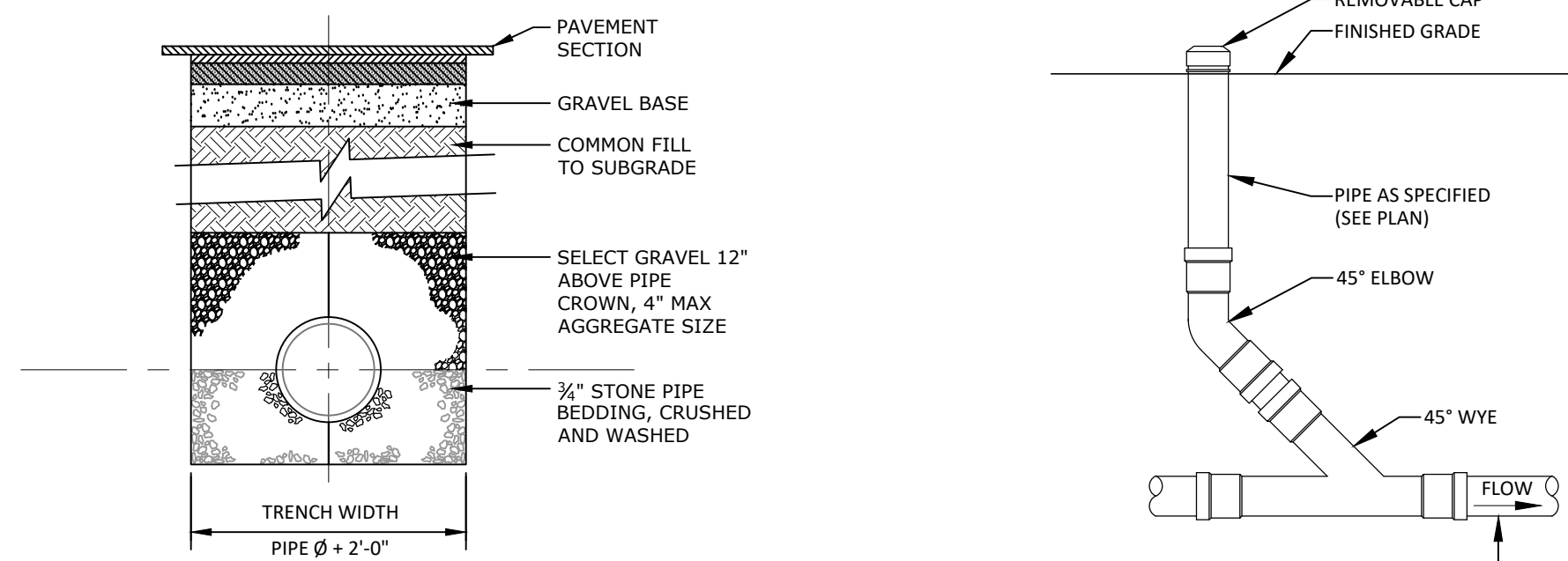
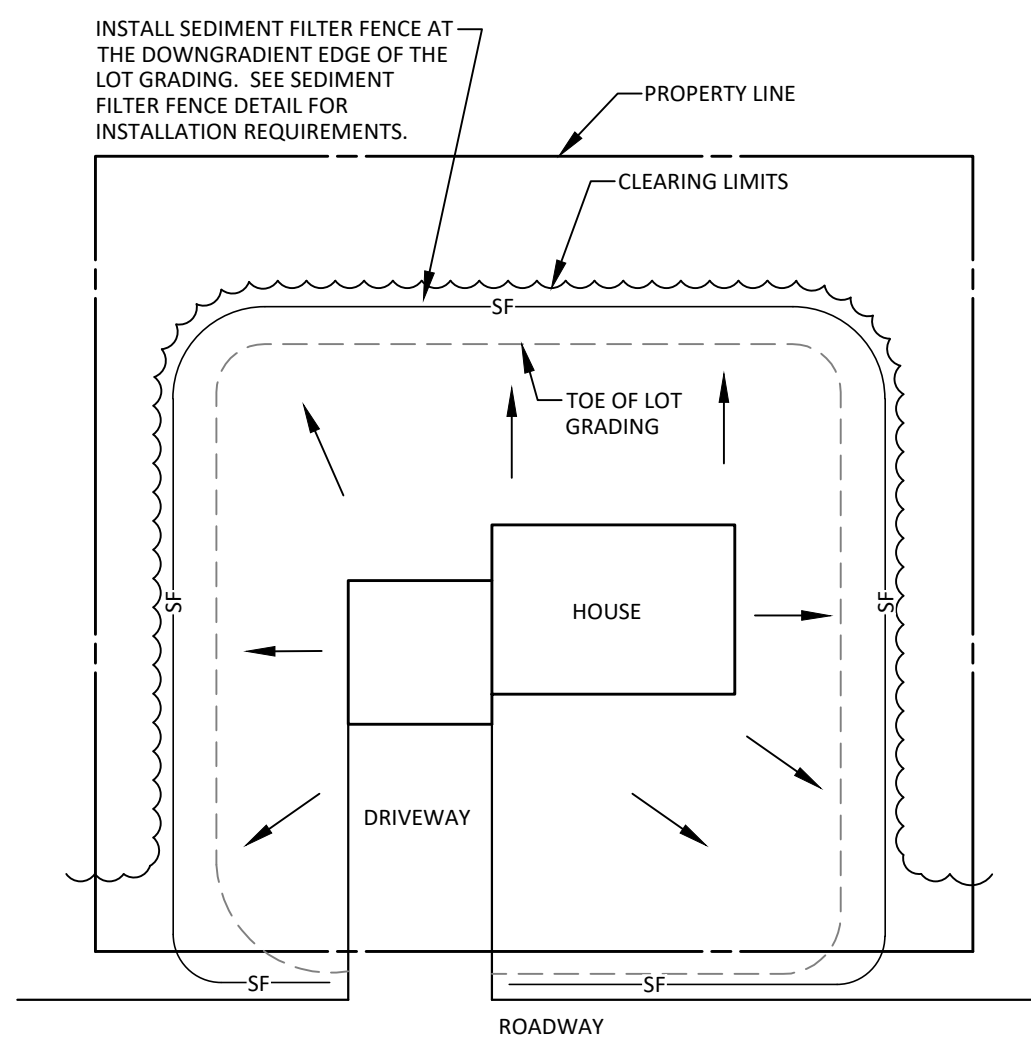
FILE 5 OF 8

PP-2

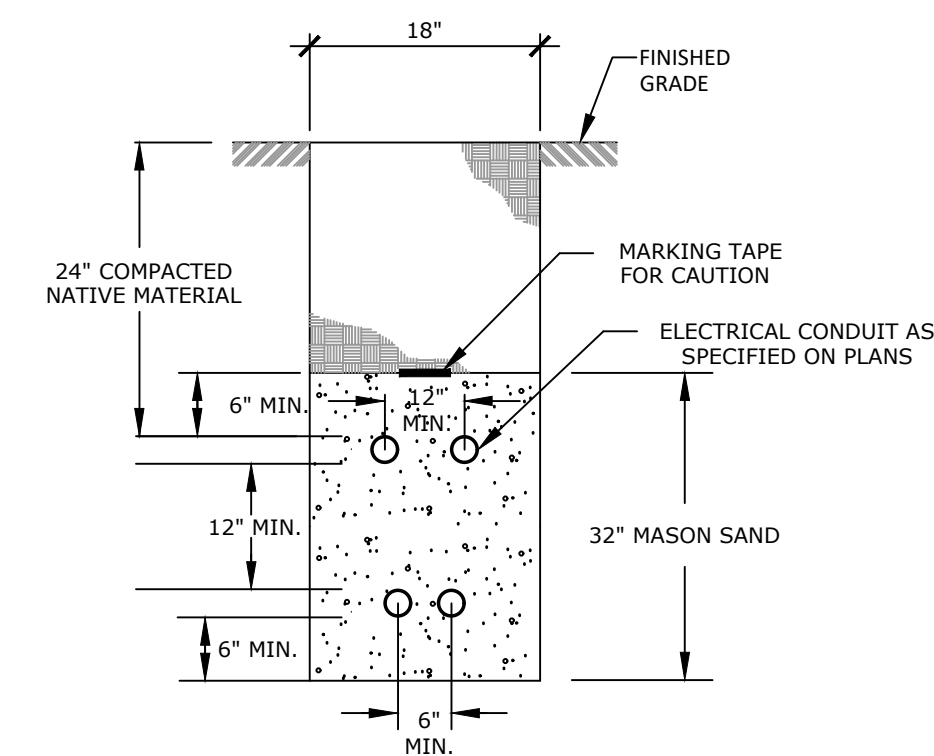


RIPRAP APRON DATA						
SD DIA.	W1	W2	La	D	T	
4" & 6"	2'	5'	4'	4"	9"	
8" & 12"	3'	5'	6'	5"	12"	
15"	4'	9'	8'	6"	14"	
24"	6'	15'	13'	6"	14"	

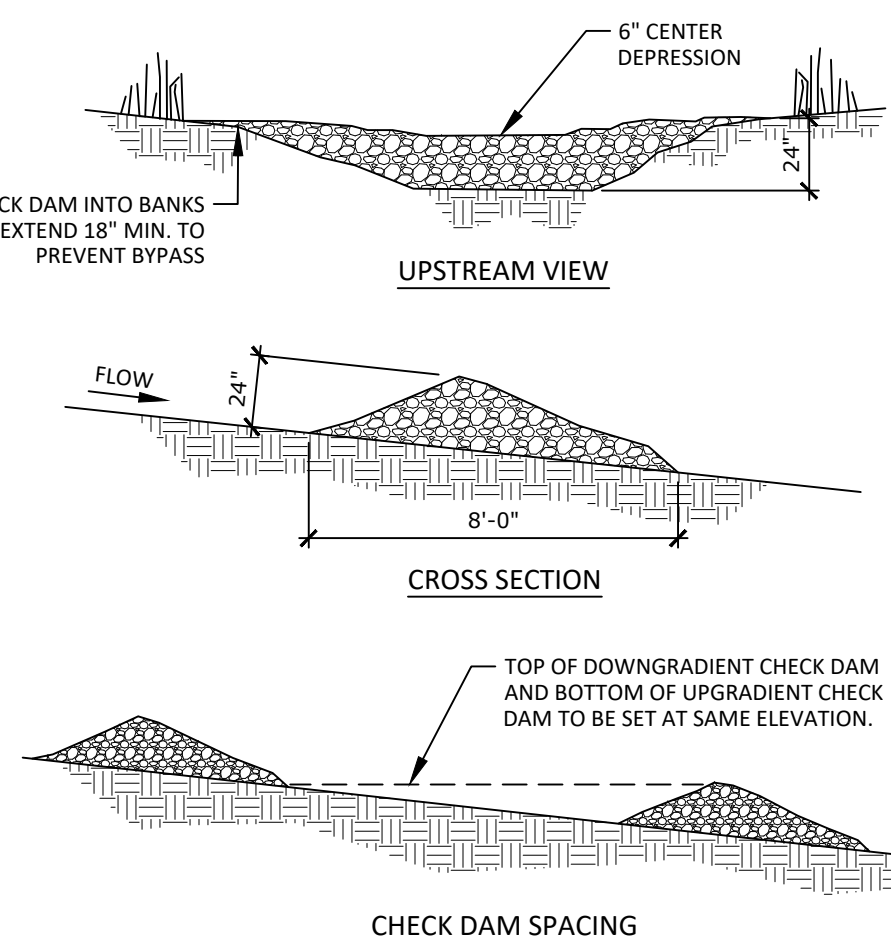
RIPRAP APRON AT PIPE
NOT TO SCALE



- NOTES:**
1. SEE TYPICAL ROAD SECTION FOR REQUIRED DEPTHS OF AGGREGATE AND PAVEMENT COURSES

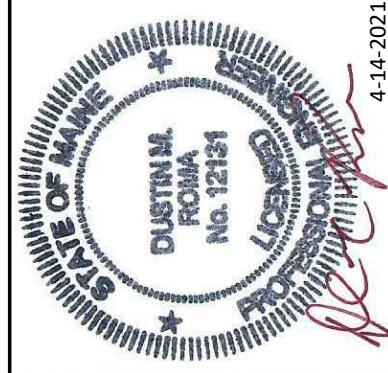


- NOTES:**
1. ALL CONDUITS SHALL BE 4" DIA. PVC SCH 40 EXCEPT FOR ROAD CROSSINGS SHALL BE PVC SCH 80
 2. INSTALLATION SHOULD NOT ALLOW THE INTER-TWINGING OF CABLES.
 3. BEDDING AND BACKFILL SHALL BE FREE OF ROOTS, STUMPS AND OTHER DEBRIS.
 4. COMMUNICATION CABLE AND POWER CABLE SHALL HAVE NO LESS THAN 12 INCHES OF RADIAL SEPARATION.



- NOTES:**
1. CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO THE SWALE.
 2. THE AREA AROUND THE CHECK DAM SHOULD BE FREE OF DEBRIS.
 3. A STONE CHECK DAM SHOULD BE COMPRISED OF WELL-GRADED CRUSHED ROCK WITH A MAXIMUM SIZE OF 6" AND A MINIMUM STONE SIZE OF 1".
 4. THE MAXIMUM HEIGHT OF A CHECK DAM SHOULD BE 2' WITH A 6" DEPRESSION AT ITS CENTER FOR OVERFLOW. THE EDGES OF THE DAM SHOULD BE KEED INTO THE EMBANKMENTS TO PREVENT SIDE EROSION.
 5. MECHANICAL PLACEMENT FOLLOWED BY HAND PLACEMENT WILL BE NECESSARY TO ACHIEVE A TIGHT MASS WITHIN THE CHANNEL AND TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.
 6. ANY EROSION DOWNGRADIENT OR AROUND THE EDGES OF STONE CHECK DAMS SHOULD BE CORRECTED IMMEDIATELY.
 7. THE CHECK DAMS MAY BE REMOVED WHEN THE SWALE IS STABILIZED WITH VEGETATION (90% COVERAGE).

STONE CHECK DAM
NOT TO SCALE



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REV	DATE	BY	DESCRIPTION
A	4-14-21	DMR	ISSUED FOR TOWN REVIEW

DETAILS
PIPELINE ROAD AND PATRICIA AVENUE
RAYMOND, MAINE
FOR RECORD OWNER:
R. N. WILEY & SONS, INC.
P.O. BOX 28, 13 SCOTT DRIVE
SOUTH CASCO, MAINE 04077

16041 JOB NUMBER:
AS NOTED SCALE:
4-14-2021 DATE:
SHEET 8 OF 8
D-2

* The project is not taking credit for the Existing / Offsite impervious and landscaped areas, but are included in the BMP sizing calculations for each treatment device.	
New Impervious Area =	41,393
New Impervious Area Requiring Treatment (95%)	39,323
Provided New Impervious Treatments	37,609
	91% New Impervious Area Treated
New Developed Area =	202,472
New Developed Area Requiring Treatment (80%)=	161,978
New Developed Area Treated=	193,443
	96% New Developed Area Treated



Diagram illustrating the Watershed Boundary and Time of Concentration (T_c) calculation. The diagram shows a watershed boundary with a reach from point A to point B. Above the reach is a pentagon labeled '1' (Watershed No.), a square labeled 'SP1' (Reach/Study Point), and a triangle labeled 'P1' (Pond). Below the reach are two dashed lines with arrows pointing right, labeled 'REACH PATH' and 'SOIL BOUNDARY'. The time of concentration T_c is indicated as the time for water to travel from A to B.

LEGEND		EXISTING	PROPOSED
---	---	PROPERTY LINE/R.O.W.	---
---	---	ABUTTER PROPERTY LINE	---
---	---	SETBACK	---
---	---	EASEMENT LINE	---
□	■	GRANITE MONUMENT	■
○	●	IRON PIN/DRILL HOLE	●
---	---	CENTERLINE	---
---	---	BUILDING	██████████
---	---	EDGE OF PAVEMENT/CURB	---
---200---	---201---	CONTOUR LINE	---
▤	---	CATCHBASIN	---
⊙	---	DRAINAGE MANHOLE	---
==	==	CULVERT/STORMDRAIN	---
⊙	---	SEWER MANHOLE	---
⊙	---	UTILITY POLE	---
OHU	---	OVERHEAD UTILITIES	---

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REV	DATE	BY	DESCRIPTION
A	2-10-21	DMR	ISSUED FOR TOWN REVIEW
B	4-1-21	DMR	ISSUED FOR MDEP PRE-APP
C	4-9-21	DMR	ISSUED FOR MDEP PRE-APP
D	4-14-21	DMR	ISSUED FOR TOWN PERMIT REVIEW

POST DEVELOPMENT WATERSHED MAP

PIPELINE ROAD AND PATRICIA AVENUE
RAYMOND, MAINE

FOR RECORD OWNER:
R. N. WILEY & SONS, INC.
P.O. BOX 28, 13 SCOTT DRIVE
SOUTH CASCO, MAINE 04077

16041 JOB NUMBER:
1" = 40' SCALE:
4-14-2021 DATE:
SHEET 2 OF 2
WS-2