

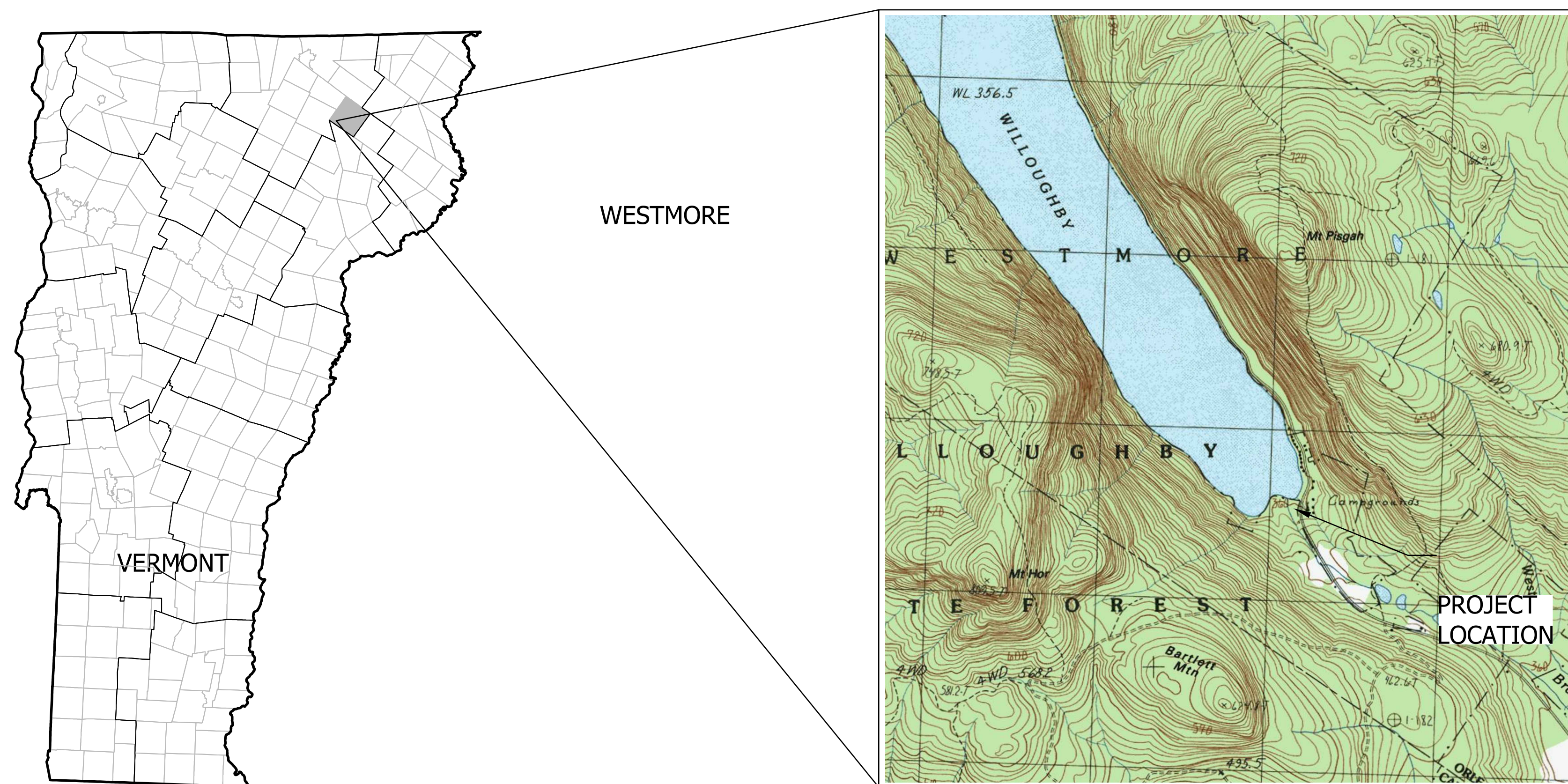
# VERMONT DEPARTMENT OF FORESTS, PARKS, & RECREATION

## LAKE WILLOUGHBY IMPROVEMENTS

WESTMORE, VERMONT

APRIL 2020

FOR PERMITTING  
NOT FOR CONSTRUCTION



LOCATION PLAN

NOT TO SCALE

**OWNER:**

DEPARTMENT OF FORESTS,  
PARKS & RECREATION  
374 EMERSON FALLS ROAD, SUITE 4  
ST. JOHNSBURY, VT 05819

**ENGINEER:**

**horizons**  
*Engineering*

PO BOX 346 / 8836 POMFRET ROAD  
NORTH POMFRET, VT 05053  
(802) 457-3151

**PLANNER:**

SE GROUP  
131 CHURCH STREET, SUITE 300  
BURLINGTON, VT  
(802) 735-9149

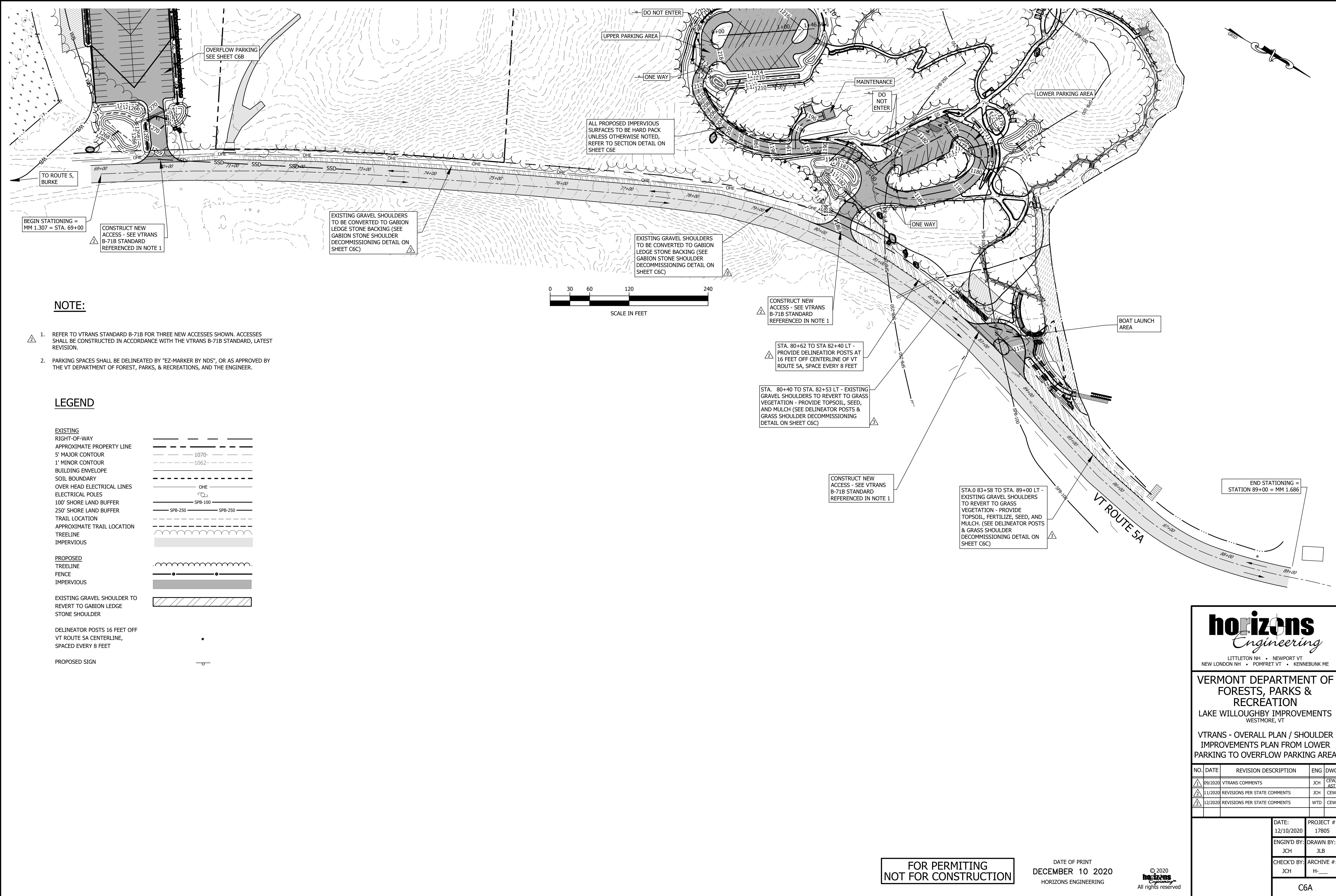
**TRAIL DESIGNER:**

TIMBER & STONE, LLC  
4764 CENTER ROAD  
EAST MONTPELIER, VT 05651  
(802) 522-9856

INDEX OF SHEETS				
INCLUDED IN THIS SET	SHEET #	TITLE	SCALE	LATEST REVISION
	C1A	OVERALL EXISTING CONDITIONS SITE PLAN	1" = 60'	
	C1B	BOAT LAUNCH AREA EXISTING CONDITIONS SITE PLAN	1" = 20'	
	C1C	MAIN PARKING AREA UPPER & LOWER EXISTING CONDITIONS SITE PLAN	1" = 20'	
	C1D	OVERFLOW PARKING AREA EXISTING CONDITIONS SITE PLAN	1" = 20'	
	C4A-1	EROSION CONTROL AND PRE-DEVELOPMENT PLAN	1" = 60'	
	C4A	BOAT LAUNCH AREA EROSION CONTROL PLAN	1" = 20'	
	C4B	MAIN PARKING AREA UPPER & LOWER EROSION CONTROL PLAN	1" = 20'	
	C4C	OVERFLOW PARKING AREA EROSION CONTROL PLAN	1" = 20'	
	C4D	TRAILS EROSION CONTROL PLAN	1" = 60'	
	C4-1A	EROSION CONTROL DETAILS	N/A	
	C4-1B	EROSION CONTROL DETAILS	N/A	
	C5A	OVERALL DRAINAGE PLAN PRE CONSTRUCTION	1" = 60'	
	C5B	OVERALL DRAINAGE PLAN POST CONSTRUCTION	1" = 60'	
	C5C	STORMWATER TREATMENT & DETENTION PLAN - BOAT LAUNCH AREA (SNO2A & SNO3B)	1" = 30'	
	C5D	STORMWATER TREATMENT & DETENTION PLAN - MAIN PARKING AREA UPPER & LOWER (SNO2A, SNO2B, SNO2C, & SNO3A)	1" = 40'	
	C5E	STORMWATER TREATMENT & DETENTION PLAN - OVERFLOW PARKING AREA (SNO1)	1" = 40'	
	C5F	STORMWATER TREATMENT & DETENTION PLAN - TRAILS (SNO4)	1" = 50'	
	C5-1A	STORMWATER TREATMENT & DETENTION DETAILS	N/A	
	C5-2A	STORMWATER INFILTRATION BASINS STRUCTURE/OUTLET ELEVATIONS & ANNOTATED MAINTENANCE PLANS (1 OF 2)	1" = 10'	
	C5-3A	STORMWATER INFILTRATION BASINS STRUCTURE/OUTLET ELEVATIONS & ANNOTATED MAINTENANCE PLANS (2 OF 2)	1" = 10'	
<input checked="" type="checkbox"/>	C6A	VTRANS - OVERALL PLAN / SHOULDER IMPROVEMENTS PLAN FROM LOWER PARKING TO OVERFLOW PARKING AREA	1" = 20'	△ 12/10/2020
<input checked="" type="checkbox"/>	C6B	VTRANS - SHOULDER IMPROVEMENTS OVERFLOW PARKING AREA LAYOUT	1" = 20'	△ 12/10/2020
<input checked="" type="checkbox"/>	C6C	VTRANS - UPPER & LOWER PARKING ACCESS & SHOULDER IMPROVEMENTS SITE PLAN	1" = 50'	△ 12/10/2020
<input checked="" type="checkbox"/>	C6D	VTRANS - BOAT LAUNCH AREA ACCESS & SHOULDER IMPROVEMENTS SITE PLAN	1" = 20'	△ 12/10/2020
<input checked="" type="checkbox"/>	C6E	VTRANS - ROADWAY DETAILS AND NOTES	N/A	△ 12/10/2020



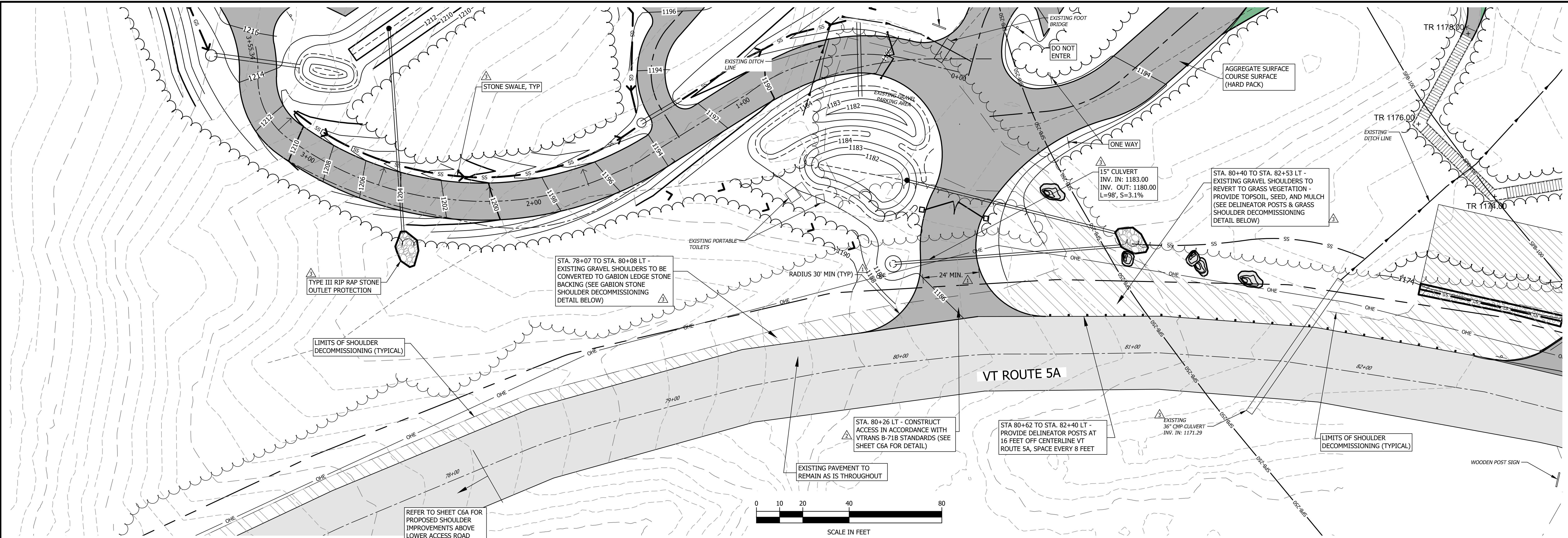
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LEGEND

EXISTING

RIGHT-OF-WAY  
APPROXIMATE PROPERTY LINE  
5' MAJOR CONTOUR  
1' MINOR CONTOUR  
BUILDING ENVELOPE  
SOIL BOUNDARY  
OVER HEAD ELECTRICAL LINES  
ELECTRICAL POLES  
100' SHORE LAND BUFFER  
250' SHORE LAND BUFFER  
TRAIL LOCATION  
APPROXIMATE TRAIL LOCATION  
TREELINE  
IMPERVIOUS

PROPOSED

TREELINE  
FENCE  
IMPERVIOUS

EXISTING GRAVEL SHOULDER TO REVERT TO GABION LEDGE STONE SHOULDER

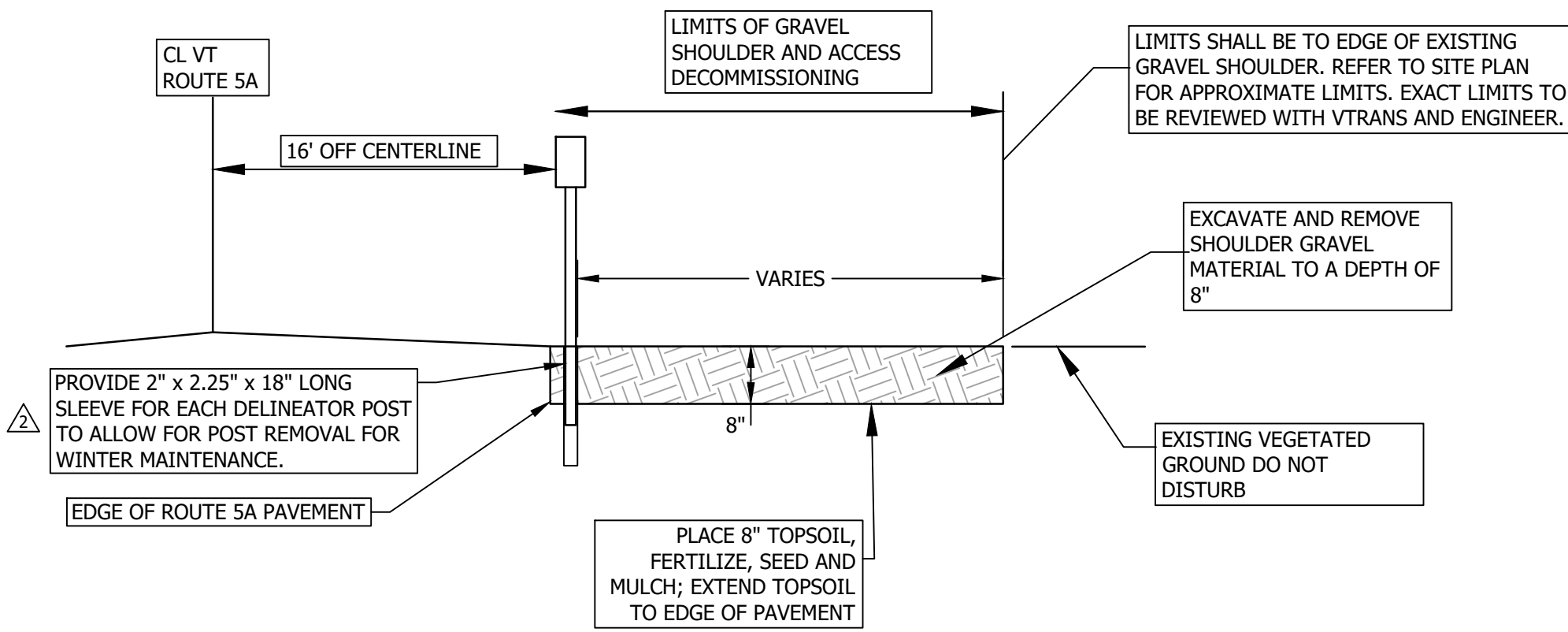
DELINEATOR POSTS 16 FEET OFF VT ROUTE 5A CENTERLINE, SPACED EVERY 8 FEET

PROPOSED SIGN

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NOT FOR CONSTRUCTION

DATE OF PRINT  
DECEMBER 10 2020  
HORIZONS ENGINEERING

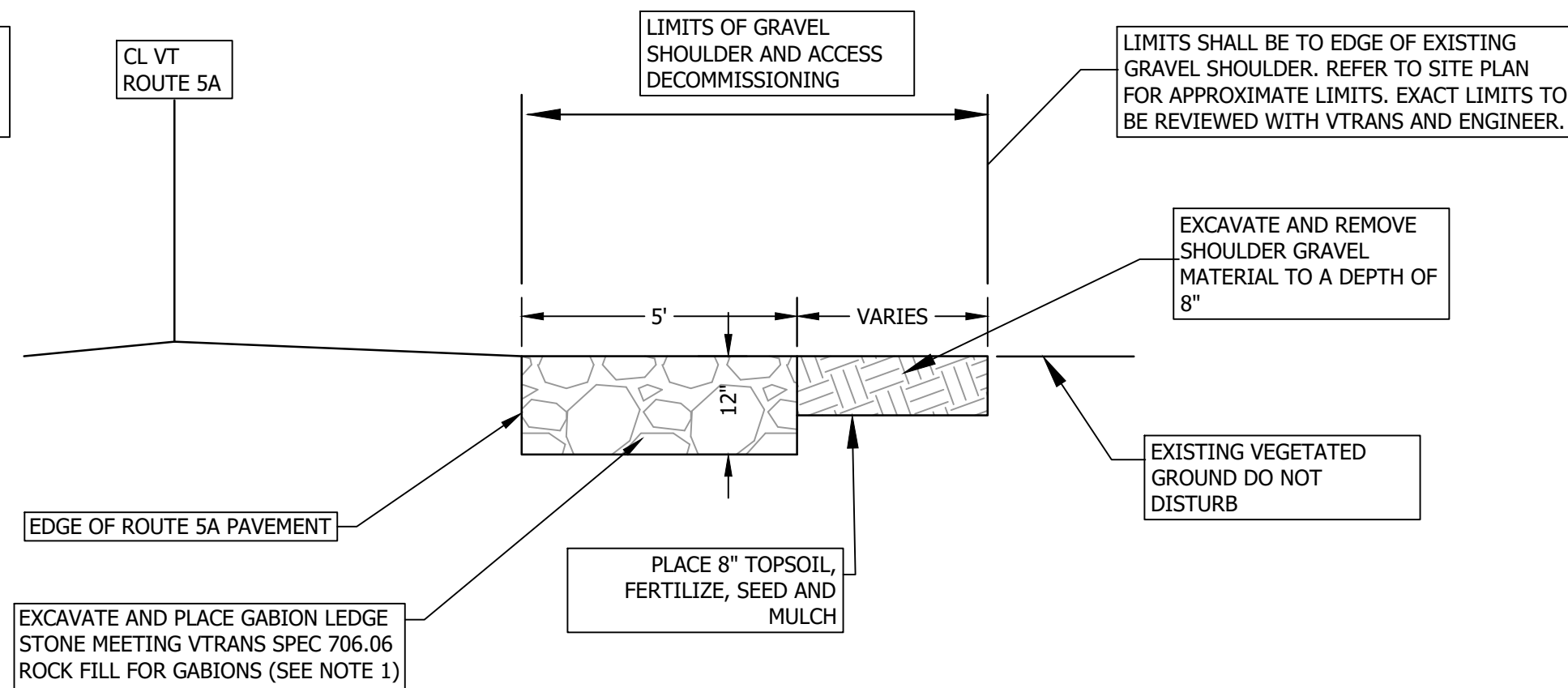
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NOTES:

- DELINEATORS SHALL BE INSTALLED IN ACCORDANCE WITH VTRANS T-40 STANDARDS, LATEST REVISION.
- COLOR OF DELINEATORS TO BE IN ACCORDANCE WITH VTRANS STANDARD T-40, LATEST REVISION, AND AS PER VERMONT DEPARTMENT OF FORESTS AND PARKS REQUIREMENTS.

DELINEATOR POSTS & GRASS  
(SEE PLAN FOR STATION RANGES)



NOTES:

- GABION STONE SHALL BE PLACED FLUSH WITH GRADE. GABION BASKETS SHALL NOT BE USED.

GABION STONE  
(SEE PLAN FOR STATION RANGES)

SHOULDER DECOMMISSIONING DETAIL - SECTION VIEW  
NOT TO SCALE

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VERMONT DEPARTMENT OF  
FORESTS, PARKS &  
RECREATION

LAKE WILLOUGHBY IMPROVEMENTS  
WESTMORE, VT  
VTRANS - UPPER & LOWER PARKING  
ACCESS & SHOULDER IMPROVEMENTS  
SITE PLAN

NO.	DATE	REVISION DESCRIPTION	ENG	DWG
1	09/2020	VTRANS COMMENTS	JCH	CEW/AST
2	11/2020	REVISIONS PER STATE COMMENTS	JCH	CEW
3	12/2020	REVISIONS PER STATE COMMENTS	WTD	CEW

DATE:  
12/10/2020

PROJECT #:  
17805

ENGINE'D BY:  
JCH

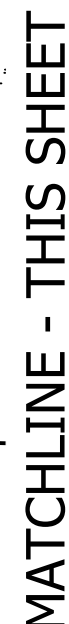
DRAWN BY:  
JLB

CHECK'D BY:  
JCH

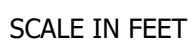
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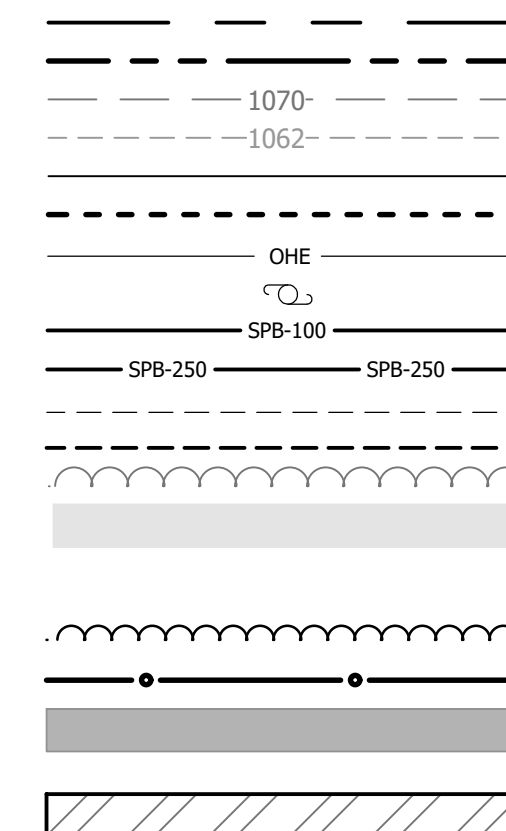




1. ALL STATIONS SHOWN SHALL BE CONSIDERED APPROXIMATE. ALL LOCATIONS SHALL BE VERIFIED IN THE FIELD WITH VTRANS AND THE ENGINEER.



EXISTING  
RIGHT-OF-WAY  
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5' MAJOR CONTOUR  
1' MINOR CONTOUR  
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SOIL BOUNDARY  
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IMPERVIOUS



PROPOSED  
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EXISTING GRAVEL SHOULDER TO  
REVERT TO GABION LEDGE  
STONE SHOULDER

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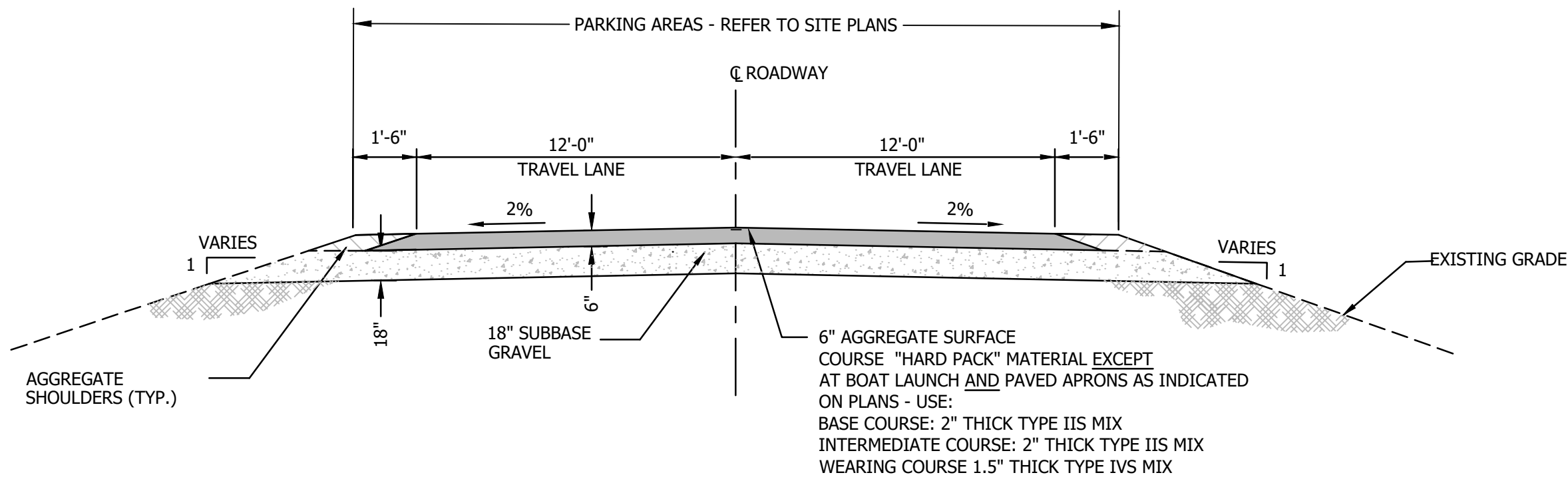
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C6D



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TYPICAL ACCESS ROADWAY DETAIL

NOT TO SCALE

NOTES

1. USE SAME TYPICAL FOR PARKING AREAS, DIMENSIONS AS SHOWN ON THE PLANS.
2. DEPENDING ON SUBGRADE CONDITIONS AND AS DIRECTED BY THE ENGINEER, USE MIRAFI 500X FILTER FABRIC AT THE BOTTOM OF THE SUBBASE GRAVEL LAYER. FABRIC IS NOT ANTICIPATED TO BE NECESSARY ON THIS PROJECT WITH THE POSSIBLE EXCEPTION OF THE BOAT LAUNCH AREA.
3. DESIRED PARKING CONFIGURATIONS HAVE BEEN INDICATED ON HARD PACK SURFACES. THE APPROPRIATE GRAVEL SURFACE DELINEATORS SHALL BE USED TO INDICATE PARKING CONFIGURATIONS, AS APPROVED BY THE VT DEPARTMENT OF FOREST, PARKS, & RECREATIONS, AND THE ENGINEER.

REFER TO THE FOLLOWING VTRANS DETAILS APPLICABLE TO THIS PROJECT:

VTRANS STANDARD	TITLE	LAST REVISED DATE
B-71B	STANDARDS FOR RESIDENTIAL AND COMMERCIAL DRIVES	APRIL 7, 2020
T40	DELINEATORS AND MILEPOSTS	JANUARY 2, 2013
T45	SQUARE TUBE SIGN POST AND ANCHOR	JANUARY 2, 2013

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VERMONT DEPARTMENT OF  
FORESTS, PARKS &  
RECREATION

LAKE WILLOUGHBY IMPROVEMENTS  
WESTMORE, VT

ROADWAY DETAILS & NOTES

NO.	DATE	REVISION DESCRIPTION	ENG	DWG
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2	11/2020	REVISIONS PER STATE COMMENTS	JCH	CEW
3	12/2020	REVISIONS PER STATE COMMENTS	WTD	CEW

DATE:  
12/10/2020

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17805

ENGINE'D BY:  
JCH

DRAWN BY:  
JLB

CHECK'D BY:  
JCH

ARCHIVE #:  
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