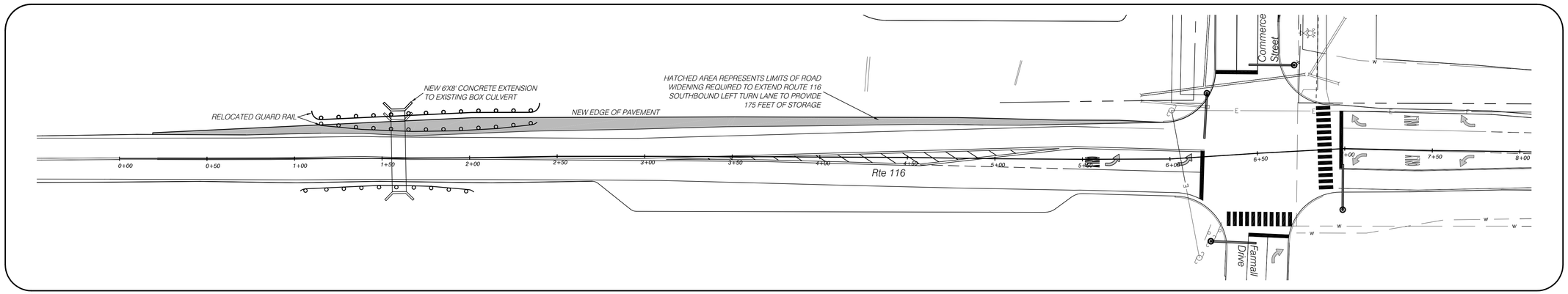
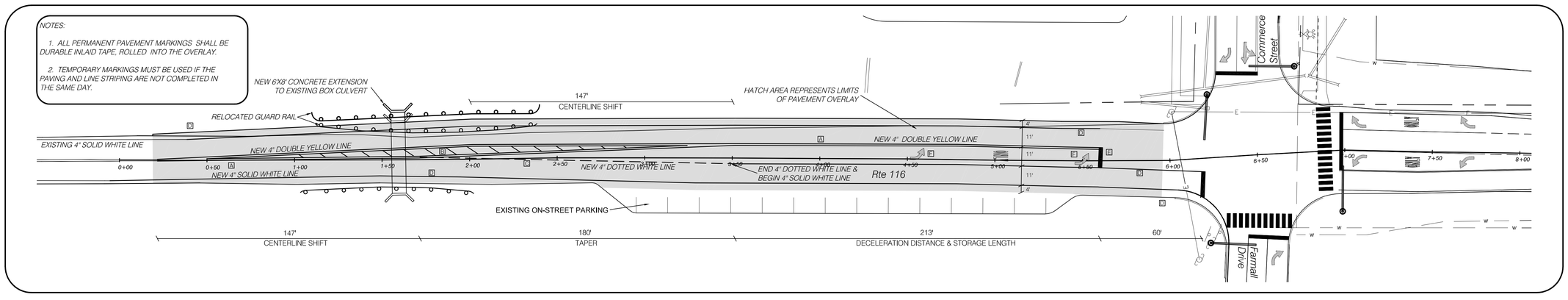


New Pavement Plan

1" = 30'



Lane Marking and Signage Plan

1" = 30'

Legend

- PROPERTY BOUNDARY
- OTHER PROPERTY LINE
- SIDELINE OF EASEMENT
- 344 CONTOUR LINE (USGS & DATUM)
- 340 PROPOSED FINISH GRADE CONTOUR
- EDGE OF WOODED AREA
- EDGE OF WETLAND (CLASS III)
- EXISTING IRON PIPE
- EXISTING CONCRETE MONUMENT
- IRON PIPE (TO BE SET)
- PROPERTY BOUNDARY
- ETC EXISTING ELECTRIC/TV/TELEPHONE LINE
- S EXISTING SEWERLINE
- EXISTING STORMLINE
- W EXISTING WATERLINE
- EXISTING/PROPOSED HYDRANT
- AcID SOIL TYPE & BOUNDARY

(NOTE: PROPOSED UTILITIES ARE SHOWN AS A SOLID LINE)

Left Turn Lane Calculations

T = TAPER
SL = STORAGE LENGTH
AS = ADDITIONAL STORAGE LENGTH FOR DECELERATION
L = CENTERLINE SHIFT

L = WS(SQUARED) / 60 FOR 40 MPH OR LESS
L = WS FOR 45 MPH OR MORE

W = 5.5', WIDTH OF SHIFT FROM THE ORIGINAL CENTERLINE IN THE DIRECTION OF TRAVEL
S = 40 MPH, SPEED LIMIT IN MPH

L = (5.5)(40)SQUARED / 60

L = 147'

T = 100' FOR 30 MPH OR LESS
T = 180' TO 200' FOR OVER 30 MPH

T = 180'

SL AT SIGNALIZED INTERSECTIONS BASED ON TWICE THE NUMBER OF VEHICLES THAT WOULD STORE PER CYCLE.

ASSUME 7 CARS @ 25' PER CAR

SL = 175'

AS = AASHTO DECEL. VALUE - .5(SL-50)

AASHTO DECEL VALUE = 275' PER TABLE 9-22, ASSHTO GREEN BOOK (2011).

AS = 275' -.5(175'-50')

AS = 213'

TL = TOTAL LENGTH
TL = L + T + AS
TL = 150' + 180' + 215'

TL =540'

Pavement Marking Legend

- A 4" DOUBLE YELLOW LINE
- B 8" DIAGONAL YELLOW LINE
- C 4" DOTTED WHITE LINE
- D 4" SOLID WHITE LINE
- E 24" WHITE STOPBAR
- F LETTER OR SYMBOL

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

STATE OF VERMONT — PAUL J. O'LEARY JR. — No. 5477 — REGISTERED PROFESSIONAL ENGINEER

DATE	REVISION		BY
SURVEY OBCA	☐ RECORD DRAWING ☐ PRELIMINARY ■ FINAL ☐ SKETCH/CONCEPT	Hannafords Supermarket & Pharmacy	DATE 03-18-13
DESIGN PJO	O'LEARY-BURKE CIVIL ASSOCIATES, PLC	Commerce Street — Hinesburg, VT	JOB# 9066
DRAWN BJB	1 CORPORATE DRIVE, SUITE #1 ESSEX JCT., VT PHONE: 878-9990 FAX: 878-9989 E-MAIL: obca@olearyburke.com	Route 116/Commerce Street Intersection Improvements	FILE CURRENT
CHECKED PJO			PLAN SHEET #
SCALE 1"=30'			C6