

Project	Consultant
Project Supervisor	
·	equired for each submittal are included. Items with a checkbox are expected to tes or comments specific to the project (e.g., project required to follow AOT

DOCUMENTATION AVAILABLE TO REVIEWERS	CON	CEPTUAL	(25%)	PREL	IMINARY (	60%)	FINAL (85%)			
NE VIE VENO	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A	
	Submittal d	ate:		Submittal d	ate:		Submittal	date:		
	Date check	ed:		Date check	ed:		Date check	ced:		
	Checked by	by:		Checked by	Checked by:		Checked by:			
Plans										
Estimate (Trns*Port Estimator if required)										
Design Calculations (if needed)										
Quantity Calculations (if needed)										
Special Provisions										
Design Plans Submittals Checklist										
ROW Plans Submittals Checklist										

#### References:

Municipal Assistance Bureau Local Projects Guidebook

Municipal Assistance Bureau Local Projects Guidebook Appendices

<u>Local Transportation Facilities Guide to the Right-of-Way Phase</u>

Vermont Pedestrian and Bicycle Facility Planning and Design Manual

VTrans Road Design Manual

**VTrans Structures Plan Generation Manual** 

Work Zone Safety & Mobility Guidance Document

Work Zone Safety & Mobility Guidance Document, Appendix A, Temporary Traffic Control Devices

Traffic Management Plan Checklist

**VAOT Standard Drawings** 



DESIGN PLANS	CO	NCEPTUAL	(25%)	PRE	PRELIMINARY (60%)			FINAL (85%)			
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A		
	Submitta	al date:	<u> </u>	Submitta	al date:		Submittal date:		<u> </u>		
	Date che	cked:		Date che	ecked:		Date check	ked:			
	Checked	by:		Checked	by:		Checked b	y:			
Title Sheet											
Title with town, county, route, functional class,											
project name/number, project location, project											
description, project lengths											
Vicinity map with state and town map or portion											
of town map with north and location circled and											
labeled with project name and number											
Project plan view with north and graphic scale,											
road rivers and other topographic features labels,											
streams, station equations, state/county/town											
division lines, route numbers and directional											
arrows to adjacent towns, cities or next intersections, alignment stationing, begin/end											
project limits including bridges and rail crossings,											
and mile markers for limits on state or national											
highway systems.											
Governing standards and specifications											
Datum (match Tie Sheets)											
Traffic data and design speed											
Paving mix criteria table											
QAP level											
Corner block											
Index Sheet											
Index of sheets											
List of Standard Sheets with most recent date and											
titles of standards											
Conventional Symbology Legend Sheet		1			,	,		,	1		
Conventional Symbology Legend Sheet											
Alignment Sheets (information could be included in la	yout shee	ts)									
Curve Data											



DESIGN PLANS	COI	NCEPTUAL	(25%)	PRE	LIMINARY (	60%)	FINAL (85%)		
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A
Baseline geometry									
Baseline stationing									
General Notes									
Seeding formulas									
Special Provision items notes									
Typical Section Sheets									
Material depths, types, lifts and tolerances									
Width and depth transitions									
Cross Slope/Superelevation									
Details for staggered pavement layers at sawcutting locations									
Guardrail, ditch and guardrail details									
Intersecting highways typicals									
Bike paths and sidewalks typicals/details									
Sidewalk thickness, subbase and material									
Sidewalk cross slope is labeled 2% max.									
Other Detail Sheets									
Quantity Sheets (** = if VTrans format is required)									
Detailed summaries **									
Drainage items reflect content in Drainage sheets									
Traffic items reflect content in Traffic sheets									
Bridge items reflect content in Bridge sheets									
Utility items reflect content in Utility sheets									
Items in proper columns **									
Detail Summary of Quantities **									
All items and all pay items in notes included									
Proper rounding **									
Quantity Sheet vs estimate (must match)									
Earthwork Sheet (if applicable)									
Drainage Detail Sheets									
Check totals									



DESIGN PLANS	соі	NCEPTUAL	(25%)	PRE	LIMINARY (	(60%)	FINAL (85%		%)	
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A	
Drainage pipes match plan view										
DI & HW quantities vs standards										
Check DI depths vs. cross sections										
Culvert thicknesses vs. fill height										
Culvert dimensions and quantities vs. plan sheets										
Underdrain size and quantities match plan view, sections and computations										
Marker posts (underdrain outlets and flushing basins)										
Excavation type										
Proper pipe options										
Pay item summaries										
Guard rail terminals, anchors match plan view, computations, details										
DI grates vs. grades and bicycle use										
Drainage pipes under state or national highway system roads have a minimum diameter of 18 in										
ROW Sheets										
See requirements in MAB ROW Plans Submittals Checklist										
Tie Sheets										
Horizontal & vertical datums										
Geodetic Control info										
Traverse tie info										
Alignment tie info										
GPS Control										
Layout Sheets										
North										
Datum matches Title and Tie sheets										
Centerline and other baselines with bearings and horizontal curve elements plotted.										



DESIGN DI ANS	COI	NCEPTUAL	(25%)	PRE	LIMINARY (	(60%)	FINAL (85%)		
DESIGN PLANS	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A
Stationing and station equations									
Curve Data									
Horizontal geometry shown									
Mainline construction limits									
Driveways construction limits									
Guard rail including terminals									
Construction limits include poles, guard rails, drainage, pavement removal, etc.									
Environmental, historic, archaeological, natural, recreational and scenic resources are identified									
Existing ROW									
Clear zone if applicable									
Cut and fill lines									
Property owner names									
Existing utilities labeled									
Proposed utility relocation									
Waterways (name and direction of flow)									
Mailbox relocations									
Existing drainage structures and pipes with dimensions and other information									
Proposed drainage structures and pipes with dimensions and other information									
Proposed ditches with flow arrows									
Drives widths, angles, radii, drives material (paved or gravel)									
Drives and curb ramp references to standard drawings									
Side roads widths, angles, radii									
Intersecting highway approaches									
Taper lengths									
Turn lanes length or callouts									



DESIGN PLANS	COI	NCEPTUAL	(25%)	PRE	LIMINARY (	(60%)	F	INAL (85%)	(85%)	
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A	
State/County/Town lines										
Construction notes match graphics and specifications										
Existing trees and landscaping within construction limits is labeled as saved or removed										
Topography shown within ROW										
Curb types, limits, new, existing, reset										
Sidewalk (type, thickness, width)										
Fences, geotextile, landscaping, stone fill										
Demolition or removal items										
Bridge and bridge limits properly drawn										
Plan changes due to permitting										
Match lines have matching sheets and stations										
Bench Marks										
Graphic scale and scale units										
Profile Sheets										
Percent of grades shown to a minimum of 4 decimal places										
VPOTs match grades and elevations plotted										
VC Data and Equations										
Superelevation transitions										
Intersecting sidelines										
Ks and SSDs shown										
VC data vs Design grades shown										
Proposed and existing elevations shown at every 25 feet										
Note for accuracy of existing and proposed elevations										
Datum, graphic Scales and scale units										
Special Profiles										
Back of sidewalk										



DESIGN PLANS	COI	NCEPTUAL	. (25%)	PRE	LIMINARY (	(60%)	F	FINAL (85%)	6)	
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A	
Intersection/Side street										
Curb profiles										
Driveways										
Superelevation transitions										
Building elevations/offset distance										
Traffic Signs & Pavement Markings Sheets										
Sign legend										
Sign labels and stations (new, removal or salvage)										
Markings labels (pay item number/description, stations, type of line)										
Traffic Signs Detail Sheets										
North, datum, graphic scales and scale units										
Traffic Sign Summary Sheet	raffic Sign Summary Sheet									
Mile markers, stations, sign numbers match signs and markings sheets										
Sign dimensions match standard or detail										
Area of the sign is in the proper column (type)										
Post type, size, number in accordance with standards										
Sign detail numbers are correct and referenced to the MUTCD and SHSM Book.										
Totals at bottom of each sheet are correct										
Totals match Quantity Sheet										
Traffic Signals and/or Street Lighting Layouts										
Existing ROW limits plotted										
Item descriptions are identical to specifications										
North and Graphic Scales										
Timing and Phasing Diagram, Vehicle Detection Schedule, Signal Face Arrangement and Conduit Schedules included										
Strain Pole (or cantilever) Detail Sheet										
			•		•	•	•		•	



DESIGN PLANS	CONCEPTUAL (25%)			PRE	LIMINARY (	(60%)	FINAL (85%)		
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A
Strain Pole (or cantilever) cross sections									
Traffic Signal Note Sheet has photometric data,									
major equipment table, controller identification									
plaque and light pole tags									
Erosion Control Sheets (* = not required on low risk pr	ojects)								
EPSC Narrative									
EPSC Legend and Notes									
EPSC Site Plans (Existing, Construction, Final) *									
EPSC Detail Sheets									
Existing contours *									
Ordinary High Water Line shown *									
Pay item notes match plan view and quantities *									
Legend matches areas and devices in plan view *									
North, scale, stationing *									
Utility Sheets (if required)	T	T		T	T	T	T	ı	
Utility Layout & Details									
Existing and proposed labeled									
Utility Profiles									
Traffic Control Sheets				•	T	T		T	
Conceptual Traffic Control									
Signs match routes and direction									
Signs to be covered shown									
Legend includes all sign types									
Detour Plan									
Notes include all pay items and refer to applicable standards									
Notes include coordination with others									
Signals affected, retiming, or temporary									
Warning signs plan									
Construction Approach Signing									
Bike/Pedestrian traffic control									



DESIGN PLANS	coı	NCEPTUAL	(25%)	PRE	LIMINARY	(60%)	F	INAL (85%)	
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A
Bridge Sheets									
Preliminary Information Sheet									
Bridge Quantity Sheets									
Boring Layout									
Boring Logs									
Typical Bridge Section									
Typical Abutment Section									
Typical Channel Section									
Plan and Elevation (Bridge)									
Bridge limits									
Structural Detail Sheets									
Superstructure Details (Typical Section, Deck/Slab Reinforcing, Concrete Placement, Bridge End Detail, Framing Plan, Beam Girder Elevation, Camber Diagram & Dead Load Deflection, Beam Splice Details, Bearing Device Details, Beam Haunch & Shear Connector Detail, Bridge Joint Details, Approach slab details, Diaphragm Details, Prestressed Superstructure, etc.)									
Substructure Details									
Reinforcing Steel Schedule									
Material Transition Details									
Bridge Railing Details									
Reference Drawings (Existing Record Plans, etc.)									
Structural Detail Sheets									
Cross Sections									
Construction line and other baselines									
Widths, depths, cross slopes, foreslopes, backslopes, subbase, sand borrow, pavement, ditches match typicals/plan view									
Elevations at finished grade and ditches									
Driveways and approaches with grades									



DESIGN PLANS	COI	NCEPTUAL	(25%)	PRE	LIMINARY (	(60%)	FINAL (85%)		
	Υ	N	N/A	Υ	N	N/A	Υ	N	N/A
Proposed guard rail shown									
Rock or ledge shown when borings indicate presence									
Stone fill details labeled									
Elevations at drainage structures inverts, outlets, top of grates and manholes									
Outlet protection for culverts									
Trees and other interferences									
Existing ROW									
Existing drainage and utilities									
Proposed drainage and utilities									
Special ditches with elevations									
Channel cross sections									
Cross sections are shown at a minimum of every 50 feet with special intermediate sections									
Match lines									
Graphic scales									
Standard Sheets									
Match construction notes and General Notes									
Match Index of Standards									
NOTES:									

RIGHT-OF-WAY PLANS



RIGHT-OF-WAY PLANS		IDENT SE NS SUBN	ET FOR ROW		FO (WHEN A	
	Υ	N	N/A	Υ	N	N/A
	Submittal d	ate:		Submittal	date:	<u> </u>
	Date check	ed:		Date check	ked:	
	Checked by	:		Checked b	y:	
Property Owner (PO) and Property Information						
Full names, correct spelling of PO's						
Mailing addresses (legal and mailing)						
Abstracts (include with ROW Plans Submittal)			·			
Abstract of Title Index submitted for the project file						
Title searches go back a min. of 42 yrs. (permanent and temporary)						
Check for Permits (Waste Water, Water Supply, Act 250, and other						
encumbrances)						
Latest Title check/update within last 6 months						
Title Sheet						
"ROW Plans" labeled in bold print						
Begin and End ROW arrows						
Layouts						
Stations/Offsets of furthest points of all acquisition/rights						
Rights labeled Lt. or Rt. Of survey line						
Rights labeled Permanent (P) or Temporary (T)						
Existing ROW, P/Ls and Acquisition linestyles and weight are clear						
Conventional Signs Sheet or Legend includes all symbols used						
All improvements and topo affected is shown						
Design data included (all baselines, curve data, highways names/numbers)						
Construction labels						
Graphic scale and scale units						
All utility relocation shown						
ROW information plotted and labeled (P/Ls, PO names, parcel numbers,						
types of rights (i.e. Slope of Right (SR), Construction, Drive, Culvert, Install, Utility Easement (U.E.))						

RIGHT-OF-WAY PLANS



RIGHT-OF-WAY PLANS	INDEPENDENT SET FOR ROW PLANS SUBMITTAL			ROW INFO (WHEN ADDED TO FULL SET OF PLANS)		
	Υ	N	N/A	Υ	N	N/A
Disclaimer relative to P/LS.						
All acquisitions have flags (stations and offsets) at all corners, P/L crossing, ROW crossings, etc. and running distances between flags.						
North Arrows on all layouts/maps						
PDF, OHW, Utilities, Stone fill all shown						
Bar scale shown on each sheet						
All bounds and pins shown						
Detail Sheet						
ROW Detail matches Layout Sheets						
ROW Detail has parcel numbers, grantor or PO names, Sheet No. where Right is located, Begin/End stations of all Rights, acquisitions, calculated areas of all acquisitions and rights, types of rights, utility companies affected, rights labeled (P) or (T)						
All property owner names spelled correctly, and names match the appropriate deed						
All parcel #'s match layouts						
All rights needed are listed						
All utility companies along project listed						
NOTES:						