## Instructions For Adaptation of Proposed MDOT Alignment Concepts

The following guidance is for the proposed conceptual changes to MDOT standards for alignment definitions and annotation within plan sets and in practice.

## Proposed Practice & Plan Changes:

Right of Way (ROW) acquisitions are to be based on previously established legal alignments, as retraced for the project, whenever possible. The appropriate project personnel (designer, surveyor and/or real estate technician) should determine when it may be necessary to depart from the previously established legal alignment for acquisition. (In circumstances where the route is entirely new or significantly departs from existing alignment it may be necessary to create new legal alignments.)

**Alignment/ROW Sheets**

It is intended that combined Alignment/ROW Sheets will be included in all plan sets.

Alignment/ROW Sheets shall include the following components:

* All pertinent alignments to the project, relative to the public land survey system (PLSS), as provided by the surveyor, plus any alignments for the project as proposed by the engineer.
* All pertinent PLSS corners and government lines.
* ROW limits dimensioned from the legal alignments from which the limits were established.
* All applicable project ties for alignments, ROW, and government lines.
* Curve data for all project alignments shall be shown on the Alignment/ROW Sheets only. Curve data shall be placed once on the Alignment/ROW Sheet of which the curves point of intersection (P.I.) station is located.

Please note that:

* These sheets may be best represented at the same scale as the project Removal and Construction Sheets.
* The detailed alignment, ROW, and government line ties should only be shown on the Alignment/ROW Sheets, and should not be repeated on the Removal/Construction Sheets.

**Removal/Construction Sheets**

The Removal/Construction Sheets shall only include the alignment required to construct the project. In instances where a proposed construction alignment is required on a project, and intended to be used for ROW acquisition, it shall be designated/annotated as legal on the plans.

**Typicals**

Typicals shall only include the alignment required to construct the project (the same alignment shown/called out on the Removal/Construction Sheets). An overall right of way dimension shall be included.

**Alignment Definitions & Key:**

Alignment types (As-Constructed, Construction, or Survey) of existing alignments are determined by their historic origin and shall be provided by the surveyor. Plan users will refer to the Alignment Key (as described in this document) for alignment clarification and historical origin. For alignment definitions, please reference the MDOT 2012 Design Surveys Standards of Practice – Alignment Section (Pages 16-20).

An Alignment Key shall be included on the first Alignment/ROW Sheet included in the project plan set. The key shall provide descriptions of each alignment included in the project. The key shall include descriptions/definitions of existing/retraced project alignments as provided by the surveyor as a survey deliverable. A description of any proposed alignments shall be provided by the designer.

**Annotation of Alignments**

Annotation along the alignments shall be as follows:

**ROADWAY + LEGAL or NON-LEGAL + ALI**

In instances where there are recurring alignments, a sequential letter designation shall be used, with the letter coinciding with information found in the alignment key.

**Example Alignment Annotations**

*M-3 LEGAL ALI*

*M-3 NON-LEGAL ALI*

*US-2 NON-LEGAL (A) ALI*

*US-2 NON-LEGAL (B) ALI*

*US-2 LEGAL (A) ALI*

*US-2 LEGAL (B) ALI*

**Alignment Key**

Alignment definitions/descriptions provided in the Alignment Key shall include the following:

Retraced Alignments (provided with survey deliverables):

* Route Name
* Origin Name, Origin Year and Origin Job Number
* “as retraced for” Job Number
* Year of Retracement

Proposed Construction Alignments (provided by the engineer):

* “Construction”
* “Alignment for” + Job Number
* Description of what the alignment is for and/or how it was produced

**Example Alignment Key**

*M-43 LEGAL (A) ALI = M-43 1954 Construction Alignment from Project 82-24 as retraced for Job Number 111659 in 2011.*

*M-43 legal (B) ali = Construction Alignment for Job Number 111659 for the relocated curve from station 119+00 to 321+96. Intended for acquisition on this project.*

*wb I-96 NON-LEGAL ALI = Construction Alignment for WB I-96 lanes as proposed by engineer for Job Number 123658.*

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