

## **FLH Sample Plans – Typical Section Sheets**

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### ***General***

Typical sections show complete geometric information in a cross-sectional view of the roadway from the subgrade to proposed surface and general information left and right of centerline.

Show both cut and fill situations in the typical sections, unless the section for that station range is 'fill only' or 'cut only,' in which case only one needs to be shown.

Match the location of dimension lines on the Typical Section sheets with the location of those same lines in the Plan view on the Plan and Profile sheets.

### ***Number of Typical Sections***

The typical sections must match the roadway templates used in the corridor modeling. A separate typical section is required for every combination of surfacing and paving depths used on the main line, approaches roads, detours, parking areas, etc. Start at the beginning station of each alignment and identify all stationing to the end of the line without gaps or overlaps. Gaps in stationing between two typical sections are acceptable where there is no work or in a bridge location.

### ***Scaling***

Draw the typical sections to scale. Add enlarged detail to expand structural section. Do not exaggerate vertically.

### ***Units***

Show widths in feet [meters] and show thickness or depth in inches [millimeters].

### ***Variable Dimensions***

Variable dimensions may be used to represent differences in shoulder or lane widths.

### ***Superelevation***

Show the most common or typical cross slope that applies to each section. Variances in cross slope for transition sections and superelevation on curves do not need to be shown in the typical section.

### ***Curve Widening***

Show curve widening for each curve on the plan sheets below the curve data.

### ***End Conditions***

Use pop-out details to show different end conditions for a typical section. Identify stations ranges where each end condition applies. Standard practice is to design transitions from one end condition to another on even stations for simplicity in callouts and labeling the Typical Sections.

### ***Guardrail***

Provide a detail for shoulder widening for guardrail, if applicable. Example 2 shows a typical section with guardrail.

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### ***Slope Rounding***

Include a cut slope rounding detail except where project constraints or partner request otherwise. Include a fill slope rounding detail unless it is not required. Only show the cut and fill slope rounding on the first page. But on all Typical Sheets, include a “See Fill Slope Rounding” and “See Cut Slope Rounding” callout on the typical section.

### ***Retaining Walls***

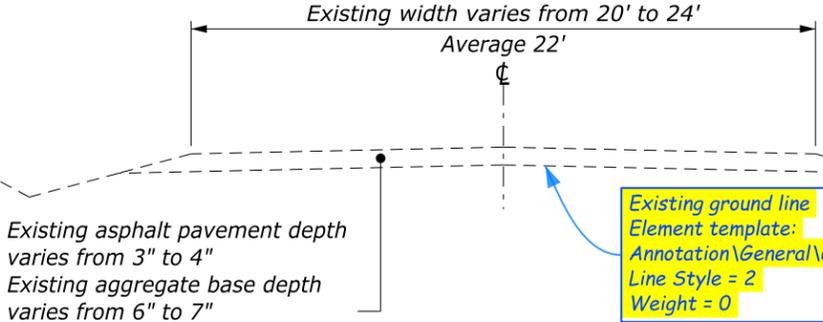
Include a typical section with a retaining wall end condition. Include a callout with the item name. Do not place any retaining wall details on the typical section.

***Turf Establishment*** – Verify the turf establishment limits with the partner and place the dimension lines to properly reflect the needs for the project. If the project has both placing topsoil (as a bid item) and turf establishment, show both on the typical sections.

***Tie-in to Existing Road*** – Do not show the tie-in to the existing road on the Typical Section sheets. Show the tie-in on the first Plan & Profile sheet.

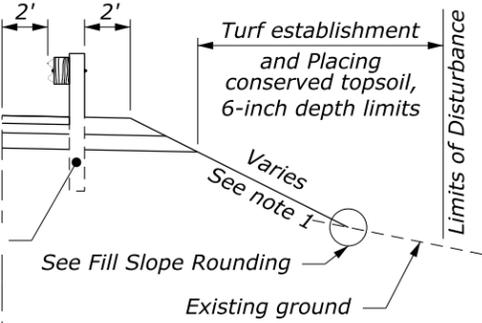
### ***R/W Limits***

Do not show the R/W limits on the Typical Sections.

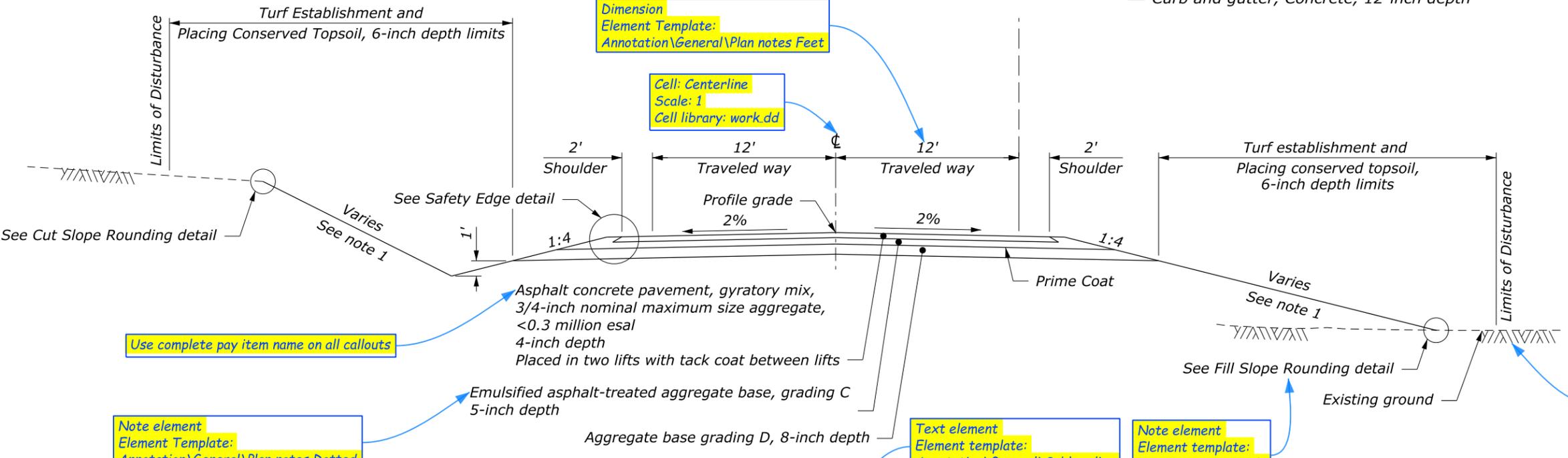
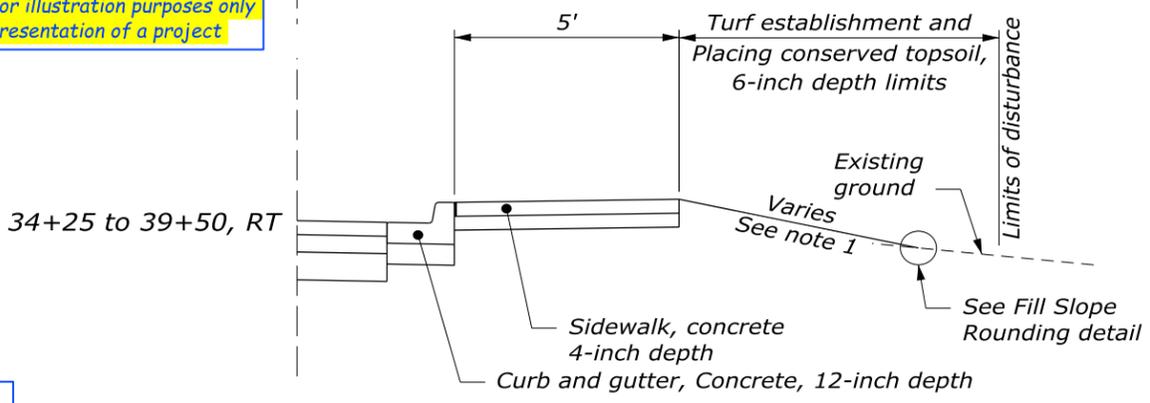


**EXISTING TYPICAL SECTION  
MAIN 01**  
10+00 to 100+00

12+00 to 13+00, Rt  
Guardrail system MGS,  
Type 4, Class B, Wood Posts



**NOTE:**  
1. See physical data for slope ratios.  
2. See superelevation diagram for superelevation values.



Use complete pay item name on all callouts

Note element  
Element Template: Annotation\General\Plan notes Dotted

Text element  
Element template: Annotation\General\Heading

Dimension  
Element Template: Annotation\General\Plan notes Feet

Cell: Centerline  
Scale: 1  
Cell library: work.dd

Text element  
Element template: Annotation\General\Subheading

Note element  
Element template: Annotation\General\Plan notes feet

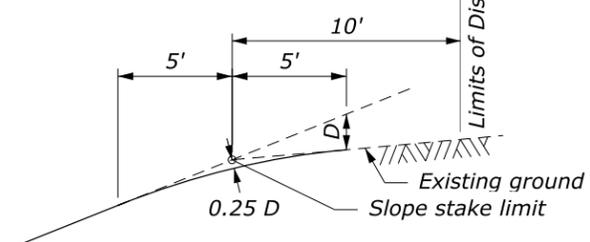
Cell: Soil  
Scale: 1  
Cell library: Work dd  
Element template: Annotation\General\Graphics

Verify extra 1' should be shown  
CFL: do not show  
EFL: do not show  
WFL: as shown

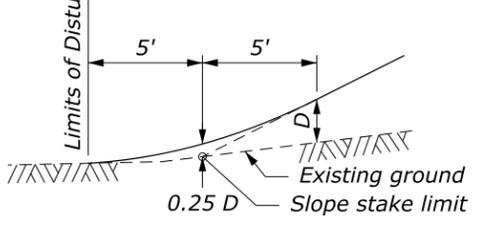
Element Template: Annotation\General\Plan notes Feet

Supplementary sheet number  
Add second line with  
TX=0.10, Spacing = 1, no bold

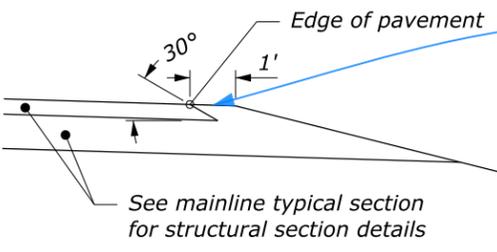
**MAIN 01**  
10+00 to 50+00  
60+00 to 90+00



**CUT SLOPE ROUNDING**



**FILL SLOPE ROUNDING**



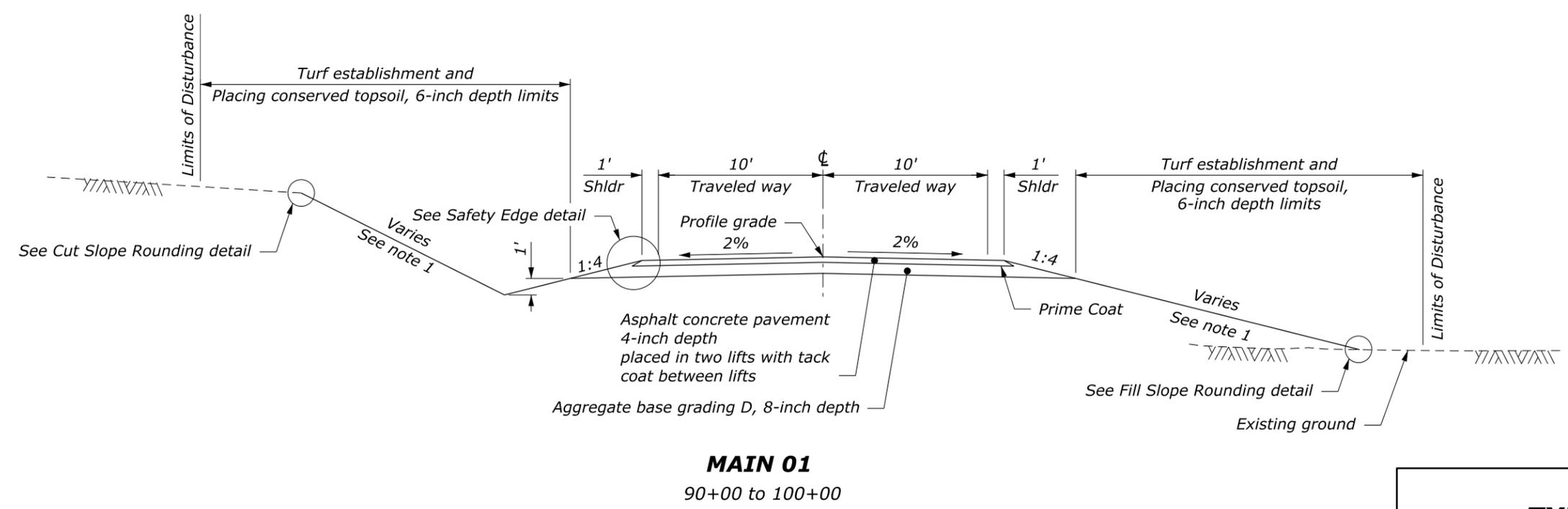
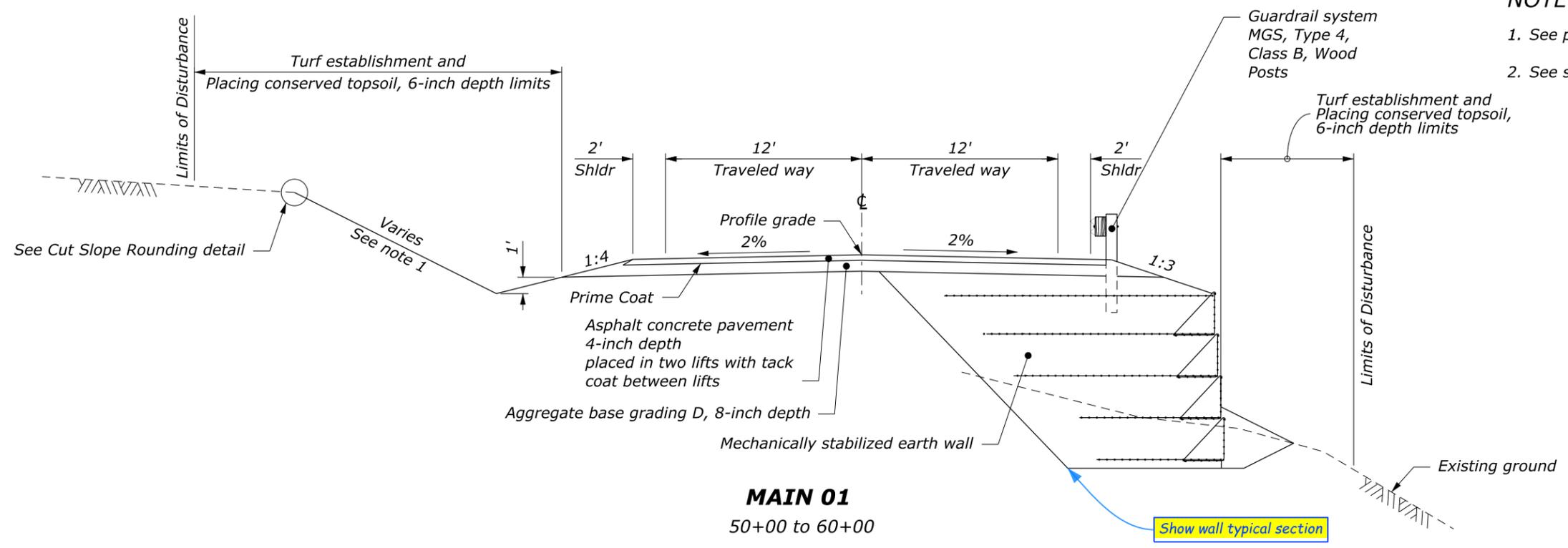
**SAFETY EDGE**

NO SCALE

**TYPICAL SECTION**  
Sheet 1 of 2

**NOTE:**

1. See physical data for slope ratios.
2. See superelevation diagram for superelevation values.



Supplementary sheet number  
Add second line with  
TX=0.10, Spacing = 1, no bold

**TYPICAL SECTION**  
Sheet 2 of 2

Element Template:Annotation\General\Plan notes Feet  
NO SCALE