## EXAMPLE SET OF PLANS REVISIONS

Plans original date January 9, 2009 - 48 sheets

Revision 1 - March 12, 2009 - sheet 29 of 48 - added note about SAR procedures for structures

Revision 2 - June 30, 2009 - sheet 1 of 48 - included CADD Roadway Drafting Reference Guidelines
  - sheet 3 of 48 - revised note to "Central Office in Springfield" instead of just "Springfield"
  - sheets 40 and 41 of 48 - information is same, replaced with new sheets from Bridge Office in Springfield

Revision 3 - November 30, 2009 - sheet 5 of 48 - added note for Radar Speed Trailers on Interstates
  - sheet 20 of 48 - revised notes to include Alternate Routes

Revision 4 - January 4, 2010 - sheet 12 of 49 - added block with tie point table instructions
  - sheet 13 of 49 - NEW SHEET - added as example for tie points

Revision 5 - March 30, 2010 - sheet 1 of 49 - revised IDOT web site instructions
  - sheet 44 of 49 - replaced sheet with example in English
  - sheet 45 of 49 - replaced sheet with new example sheet
  - REVISED TEXT SIZES AND ADDED NOTES to example sheets

Revision 6 - January 21, 2011 - sheet 41 of 49 - updated approach slab and traffic barrier terminal, replaced border
  - sheet 42 of 49 - replaced border

Revision 7 - December 2, 2011 - sheet 6 of 49 - updated Summary of Quantities to new B&D E format.

Revision 8 - July 11, 2014 - sheet 3 of 49 - showed new location of data due to removal of ftp sites.
  - sheet 16 of 49 - Changed text to state that proper levels should be used.

Revision 9 - August 7, 2014 - sheet 1 of 49 - Updated IDOT web site information
  - sheet 3 of 49 - Updated IDOT web site information and JULIE web site information
  - sheet 5 of 49 - Updated IDOT web site information
  - sheet 26 of 49 - Updated IDOT web site information and corrected reference to Drainage Manual.
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS
FAP ROUTE 123 (US 456)
SECTION 78RS, BR-3
PROJECT
3R RESURFACING AND BRIDGE REPLACEMENT
ANYWHERE COUNTY
C-93-000-08

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

INDEX OF SHEETS

1. COVER SHEET
2. STANDARDS LIST & GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. - 6. TYPICAL SECTIONS
7. - 10. SHEET INDEX
11. ALIGNMENTS, TIES, AND BENCHMARKS
12. EROSION CONTROL PLAN
13. STRUCTURE PLANS
14. - 45. CROSS SECTIONS
46. - 55. DETAIL SHEETS

GROSS LENGTH = 29964.74 FT. = 5.675 MILE
NET LENGTH = 29865.74 FT. = 5.656 MILE

FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL
2009 ADT = 1300
P.V.=94.8%  S.U.=4.2%  M.U.=1.0%

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

LOCATION MAP

NOT TO SCALE

INDEX OF SHEETS

1. COVER SHEET
2. STANDARDS LIST & GENERAL NOTES
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LOCATION MAP

NOT TO SCALE
### Sheet 2: This sheet is for Index of Sheets, Highway Standards, General Notes, and Commitments.

#### Index of Sheets
If not able to place on cover sheet, place on this sheet.

#### List of Highway Standards
If not able to place on cover sheet, place on this sheet.
List is to include only standards needed for this project.
Include the current revision number.
The standard sheets will be inserted by the central office in Springfield prior to letting.
Standards can be found at the IDOT web site:
- www.idot.illinois.gov
- Doing Business
- Procurements
- Engineering, Architectural & Professional Services
- Consultant Resources
- Highway Standards

#### General Notes
Include all applicable general plan notes.
The list of the district's general notes are found at:
- www.idot.illinois.gov

**Doing Business**
Engineering, Architectural & Professional Services
Consultant Resources
Roadway Downloads and Guides
Roadway CADD Downloads and Guides
District Standards

Include the correct Applications Rate Table
Include all JULIE member utilities and type of utility within the project limits and IDOT
as a non-member if within project limits. If no utilities are present, list "NONE." Check project report for list of utilities.
The JULIE web site is: http://www.illinois1call.com/index.html

#### Commitments
Include all commitments.
Commitments made in Phase I are found in the project report.
Commitments made during Phase II will be provided by the district.
If there are no commitments, then list "NONE." with the date.

#### District Signature Block
The signature block is located in the District Specific Standards site
- www.idot.illinois.gov
- Doing Business
- Procurements
- Engineering, Architectural & Professional Services
- Consultant Resources
- CADD Resources
- Roadway Downloads and Guides
- Roadway CADD Downloads and Guides
- District Standards

In the "District 3 CADD Standard Details" folder. For consultant projects, replace "PREPARED BY" with "REVIEWED BY."
CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW TO ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS TO THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND ALL OTHER STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE.

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS TO THE HMA SURFACE OF THE MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND ALL OTHER STRUCTURES SHALL BE INCLUDED IN THE UNIT PRICE.

IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL BE REQUIRED TO SAW TO ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN.

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Summary of Quantities

For the Summary of Quantities

Show the appropriate quantity breakdowns based on the construction and safety work type, project location, funding sources, etc. Check the project report for any agreement items. Quantities must be separated at all urban/rural splits and county lines. Use existing Structure numbers and note proposed number.

Provide the correct pay item code number, description, and pay unit exactly as shown.

Fill out the total quantities column.

Round all quantities according to Chapter 64 of the BDE Manual.

Do not rotate the Summary of Quantities on the sheet, use additional sheets instead.

Double space pay items.

Indicate Specialty Items with a symbol such as an asterisk

NOT all items requiring a special provision are Specialty Items.

Specialty Items are items of work requiring specialized knowledge, skills, or equipment which are typically outside the general contractor's expertise (e.g., electrical work, traffic signals or permanent pavement markings on a paving contract, blasting on a bridge contract, paving work on an electrical contract, etc.).

Verify that quantities agree with schedules

A list of pay items can be found at the IDOT web site

www.idot.illinois.gov

Doing Business

Procurements

Engineering, Architectural & Professional Services

Consultant Resources

Letting Specific Items

Coded Pay Items

and

www.idot.illinois.gov

Doing Business

Procurements

Engineering, Architectural & Professional Services

Consultant Resources

Roadway Downloads and Guides

Roadway CADD Downloads and Guides

Summary of Quantities Spreadsheets

NOTE:

An item followed by an asterisk does not always require a special provision. It may be covered by showing a dimension on a typical section, showing an area on a plan sheet, or by including a detail on the plans.

The following is a list of items that will be used during the plan review process. It contains District 3 preferences to be considered during the plan preparation process:

- Items for traffic control
- Items for traffic signing
- Temporary quantities
- Raised reflective pavement markers
- Need approval from district for rip rap or revetment mat
- Need approval from district for hydro mulch
- Use sod in urban areas rather than seeding
- Include supplemental watering for sod
- Do not specify pipe material without prior approval (requires an exception)
- Use elliptical RCCP instead of arch diameter
- Include a Construction Test Strip for each type of HMA with quantity over 3,000 tons
- Include Bridge Deck Grooving for proposed concrete decks
- Use HMA Surface Course on all side roads that are US and state routes
- Use Incidental HMA Surface for mailbox turnouts, entrances, and side roads less than 100'
- Permanent survey markers and/or land section markers
- Railroad protective liability insurance
- Need approval from district for reflective crack control
- Use Aggregate Base Course in tons
- Use sub-base Granular Material, Type A in square yards
- Use Class S1 Concrete Closor in each
- Use Temporary Sheet Piling in square feet or TSR System
- If earthwork quantities are small, measure by truck count
- Link incidental items to an appropriate pay item
- Use Short Term and Temporary Pavement Markings according to
  Section 703 of the Standard Specifications
- Work zone pavement marking removal for short term and temporary
- Replace Lime Modified Soils in urban areas with sub-base granular pay items
- Pay for culvert removals
- Saw and seal existing 4" expansion joints on resurfacing projects
- Provide service installation for lighting
- Include embankment for Type 1 (Special) guardrail terminals, side road radii, etc
- Corporation stops and curb stops for watermain work
- When proposed construction involves centerline work or other work where traffic will be utilizing
  the existing shoulder, include shoulder repair quantities
- Changeable message boards on interstate projects and new signal locations (consult district)
- Radar Speed Trailers on interstate projects over one month duration
- For Traffic Standard 70/1411, each ramp is considered a separate "location" when calculating quantities

Place SUMMARY OF QUANTITIES here as description

Information is same as cover sheet
<table>
<thead>
<tr>
<th>CODE NO.</th>
<th>ITEM</th>
<th>UNIT</th>
<th>TOTAL QUANTITY</th>
</tr>
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<tbody>
<tr>
<td>20100110</td>
<td>TREE REMOVAL 16 TO 15 UNITS DIAMETER</td>
<td>UNIT</td>
<td>203</td>
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<tr>
<td>20100210</td>
<td>TREE REMOVAL OVER 15 UNITS DIAMETER</td>
<td>UNIT</td>
<td>500</td>
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<tr>
<td>20101700</td>
<td>SUPPLEMENTAL WATERING</td>
<td>UNIT</td>
<td>20</td>
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<tr>
<td>20200100</td>
<td>EARTH EXCAVATION</td>
<td>CU YD</td>
<td>21816</td>
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<tr>
<td>20201200</td>
<td>REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL</td>
<td>CU YD</td>
<td>3338</td>
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<tr>
<td>20400800</td>
<td>FURNISHED EXCAVATION</td>
<td>CU YD</td>
<td>2558</td>
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<tr>
<td>20700220</td>
<td>POROUS GRANULAR EMBANKMENT</td>
<td>CU YD</td>
<td>364</td>
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<td>20800150</td>
<td>TRENCH BACKFILL</td>
<td>CU YD</td>
<td>2558</td>
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<tr>
<td>21001000</td>
<td>GEOTECHNICAL FABRIC FOR GROUND STABILIZATION</td>
<td>SQ YD</td>
<td>21811</td>
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<td>21101505</td>
<td>TOPSOIL EXCAVATION AND PLACEMENT</td>
<td>CU YD</td>
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<td>22000200</td>
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<td>PHOSPHORUS FERTILIZER NUTRIENT</td>
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</tbody>
</table>

**NOTE:**
- Speciality Items are marked with an asterisk (*).
Typical Sections

Place mainline typical sections first, followed by other typical sections as they appear along the mainline. Alphabetize or number sequentially each typical section.
Note the title of the typical section and station locations directly below the typical section
    The station locations should be continuous through the project. If no work is proposed, show existing typical and no work.

Separate existing and proposed typical sections are only required when pavement is being replaced or when showing the proposed work on the existing typical is too cluttered

Existing roadway information and/or old plans will be supplied by the district, also see project report

Include the following on the typicals
    horizontal dimensions rounded to nearest 0.1 ft
    vertical dimensions rounded to nearest 1/4 in for resurfacing
    profile grade line reference if different than the centerline
    types and depths of surface, base, and subbase courses
    side slopes expressed as a ratio of vertical to horizontal distances (To avoid confusion may include V:H such as 1V:4H)
    cross slopes expressed in percent on pavement and shoulders
    superelevations expressed in percent
    arrows showing direction of drainage for side slopes, cross slopes, and superelevation rates
    final striped width
    all applicable pay items

Show paved shoulders and delineators on 40-45 mph curves

Extend subbase past proposed curb and gutter 6".

For further guidance also see 64-2.06 and -2.07 of the BDE Manual and the pavement and shoulder highway standards

Include the approved pavement design with the structural design information (If only doing policy resurfacing, this is not necessary)

For projects with HMA, include a Mixtures Table (Information will be provided by district)
**STATE OF ILLINOIS**

**DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS**

**FILE NAME**
c:\pw_work\PWIDOT\VERDINEML\dms34852\example plans.dgn

**USER NAME**
=  

**PLOT SCALE**
=  

**PLOT DATE**
=  

**DATE DESIGNED**
=  

**CHECKED**
=  

**DRAWN**
=  

**REVISED**
=  

**MATCH EXIST. SUPER**

**MATCH EXIST. GUTTER**

**HMA OVERLAY**

**9" P.C.C. PAVEMENT**

**AGGREGATE SHOULDERS**

**TYPE A 6"**

**STA. 17+93 TO STA. 21+63**

**STA. 22+35 TO STA. 24+54**

**BRIDGE OMISSION**

**STA. 24+54 TO STA. 28+79**

**MATCH EXIST. SLOPE**

**4.0%**

**AGGREGATE**

**SHOULDER, TYPE B**

**LEVELING BINDER QUANTITY**

**ADDED FROM STA. 28+79 TO STA. 29+75**

**MIXTURES TABLE**

<table>
<thead>
<tr>
<th>PG BINDER</th>
<th>MAX RAP (%)</th>
<th>MAX % RAP</th>
<th>MAX DESIGN AIR Void</th>
<th>MIXTURE COMPOSITION</th>
<th>FRICTION BINDER</th>
<th>DENSITY TEST</th>
<th>SATISFACTION OF THE ENGINEER</th>
</tr>
</thead>
<tbody>
<tr>
<td>PG 64-22</td>
<td>25</td>
<td>15</td>
<td>IL 19.0</td>
<td>Mixture C</td>
<td>PG 64-22</td>
<td>1:3</td>
<td>*</td>
</tr>
<tr>
<td>PG 58-22</td>
<td>50</td>
<td></td>
<td>IL 12.5 or IL 9.5</td>
<td>Mixture C</td>
<td>PG 58-22</td>
<td>1:3</td>
<td>**</td>
</tr>
</tbody>
</table>

*HMA shall be compacted to 93.0-97.4 percent of the maximum theoretical density, except when more than 20 percent RAP is used as first lift on an unimproved subgrade, the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA specification.

**NOTES:**

- RAP stands for Recycled Asphalt Pavement.
- PG 64-22 is a type of asphalt binder.
- PG 58-22 is a softer asphalt binder.

**EXAMPLE 8 of 49**

08/07/2014
**Proposed Typical Section**

**Norma Crown Areas**
- STA 100+00 to STA 120+65
- STA 147+60 to STA 184+05
- STA 245+90 to STA 294+58
- STA 351+73 to STA 500+00

**Superelevation Areas**
- STA 200+00 to STA 250+45
- STA 260+40 to STA 268+40
- STA 294+40 to STA 304+35

**Half Section**
- Showing Proposed Resurfacing
- Showing Proposed Removal

**Details**
- 1 1/2" Polymized HMA Surface Course, Mix "E", N90
- 1 1/2" Minimum HMA Shoulders

*When the superelevation rate of the pavement is between 0% and 4%, the shoulder shall be sloped at 4%. When the superelevation rate of the pavement exceeds 4%, the shoulder shall be sloped so that the algebraic difference between pavement and shoulder will not be greater than 8%.*

*See staging typicals for additional paving details.*

1. Half Section showing Proposed Resurfacing
2. Half Section showing Proposed Removal

*See schedule and plan sheets for Transition Locations.*

**Notes**
- 4" HMA Shoulders
- Variable Depth HMA Shoulders
- Paved Shoulder Removal (Special) to construct 4" HMA Shoulders required for staging

**Scale:** 50:0.0000 ':" / IN.

**Plot Date:** 3/26/2010

**State of Illinois**
**Department of Transportation**

**File Name:** c:\pw_work\PWIDOT\VERDINEML\dms34852\example plans.dgn

**User Name:** verdineml

**Plot Scale:** 50:0.0000 ':" / IN.

**Plot Date:** 3/26/2010

**Date Designed:**
- 1V:4H

**Date Checked:**
- 1V:4H

**Date Drawn:**
- 1V:4H

**Date Revised:**
- 1V:4H

**User Name:** verdineml
Show all work items in schedules
Do NOT use the word "Contingent"
Check for agreement with the Summary of Quantities
Show Participation breakdowns in schedules
Schedule for Sideroads and Entrances must have quantities broken out per individual location
Include Temporary Fence for protection of wetlands, hazardous waste areas, property owner commitment areas, or any other areas that the Contractor is prohibited from utilizing during construction.
For clarification, provide an index of schedules for large projects with multiple pages of schedules
Consider for long term projects (i.e. projects longer than one construction season)
Include quantities for maintenance of temporary erosion control
Include temporary seeding if the project will not be completed in one season, consider use of Temporary Mulch (Mulch Method II) for over winter break
Estimate the increase in patching quantities if the project will not be let in the same year as the plans were developed or if the project will require more than one construction season
Include temporary sidewalks
Include quantities for maintenance of temporary access
Address responsibility for maintenance of existing highway lighting
Include method of payment for drums, barricades, or barrier wall to be left in place and becoming the property of the state or another agency. Include method and location of delivery if required.
Include maintenance responsibilities during a winter shut down.

Following is a list of schedules the plans might contain:

- Box Culverts
- Bridge Approach
- Building Removal
- Cleaning Culverts
- Curb and Gutter
- Deck Drain Extensions
- Delineators
- Detector Loops
- Driveways
- Earthwork
- Entrances and Side Roads
- Erosion Control
- Exploration Trench and other Field Tile items
- Fence
- Grading and Shaping Ditches
- Guard Rail
- Hazardous Materials
- HMA Surface Removal or Milling
- Impact Attenuators
- Landscaping
- Lighting
- Lime Modified Soils
- Median and Island
- Patching
- Paved Ditch
- Paved
- Pavement Marking
- Pavement Removal
- Permanent Survey Markers
- Pipe Culverts
- Protective Coat

<table>
<thead>
<tr>
<th>Description</th>
<th>Material/Item</th>
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<tbody>
<tr>
<td>Box Culverts</td>
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<td>Bridge Approach</td>
<td>Removal and Disposal of Unsuitable Materials</td>
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<td>Building Removal</td>
<td>Right-of-way Markers</td>
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<td>Cleaning Culverts</td>
<td>Riprap</td>
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<td>Curb and Gutter</td>
<td>Rock Excavation</td>
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<tr>
<td>Deck Drain Extensions</td>
<td>Rumble Strips</td>
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<tr>
<td>Delineators</td>
<td>Sanitary Sewer</td>
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<td>Detector Loops</td>
<td>Seeding and Sodding</td>
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<tr>
<td>Driveways</td>
<td>Sidewalk</td>
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<tr>
<td>Earthwork</td>
<td>Signs</td>
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<tr>
<td>Entrances and Side Roads</td>
<td>Storm Sewer including Inlets and Manholes</td>
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<tr>
<td>Erosion Control</td>
<td>Staging</td>
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<tr>
<td>Exploration Trench and other Field Tile items</td>
<td>Spraying and Sealing of Grouting</td>
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<tr>
<td>Fence</td>
<td>Structure Rehab</td>
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<td>Grading and Shaping Ditches</td>
<td>Temporary Concrete Barrier</td>
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<td>Temporary Pavement</td>
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<td>Hazardous Materials</td>
<td>Temporary Pavement Marking</td>
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<tr>
<td>HMA Surface Removal or Milling</td>
<td>Temporary Ramps</td>
</tr>
<tr>
<td>Impact Attenuators</td>
<td>Topsoil</td>
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<tr>
<td>Landscaping</td>
<td>Traffic Signals</td>
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<tr>
<td>Lighting</td>
<td>Tree Removal</td>
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<tr>
<td>Lime Modified Soils</td>
<td>Trench Backfill</td>
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<td>Median and Island</td>
<td>Underdrains</td>
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<tr>
<td>Patching</td>
<td>Water Main</td>
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<td>Paved Ditch</td>
<td>Water Valves and/or Manhole Adjustment</td>
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<td>Paved</td>
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<td>COUNTY</td>
<td>FED. AID PROJECT</td>
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**ENTRY AND SIDEROADS**

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**PLOT DATE**

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District 3 Alignment, Ties, and Benchmarks Sheet Requirements

1. **Alignment.** On all projects, a separate alignment sheet will be provided showing the existing and proposed horizontal alignment with the appropriate curve data, line bearings, centerline control points, and other pertinent information. The alignment drawing should be drawn to scale and include a north arrow.

2. **Reference Ties.** Reference ties will be required on every project. Figures illustrating the reference tie points locations may be simple or detailed schematics with the appropriate dimensions and tie points identified, including the station and offset and applicable control tie designation (e.g., POT, PI, PT, PC). Locating and referencing the centerline of survey will consist of establishing and referencing the control points of the centerline of surveys such as PC’s, PT’s and as many POT’s as are necessary to provide a line of sight. Show reference ties having locations tied to the mainline first, by increasing station, followed by ties to other points in the order they appear along the mainline. Clearly identify the feature to which the ties are referenced (e.g., iron pin 18 in. (0.5 m) deep, corner of wall). Tie figures are generally not drawn to scale. If too congested with the alignment drawing, transfer the tie figure to an insert directly under the point involved. At least three reference ties less than 100’ in length are required to each point. Note the tie distances to the nearest 0.01 ft. (5 mm). State Plane Coordinates shall be provided for all control points and centerline control points.

3. **Benchmark Data.** Benchmark tabulations should show the station, location, description, and elevation of each benchmark. Show mainline benchmarks first, followed by benchmarks to other facilities in the order they appear along the mainline. Clearly identify the road or line to which a group of benchmarks is referenced. Show elevations in feet to two decimal places (i.e., 0.01 ft.); show elevations in meters to three decimal places (i.e., 0.001 m). Provide a detailed description to locate the benchmark used for the level datum source. The description should include the benchmark location, elevation, number, and any other pertinent information. Benchmarks will be established along the project outside of construction limits not exceeding 1000 ft. (300 m) intervals horizontally and 20 ft. (6 m) vertically. A minimum of two benchmarks will be required regardless of the project size.

Also include layout information for all streets and sideroads.

Tie point locations should be listed in a table with the following instructions:
1) Engineer will re-establish monument (usually with in kind i.e. PK nail)
2) Engineer will re-establish monument and furnish tie sketches to District 3 Plats and Plans (usually paid for as Permanent Survey Marker)
3) Professional land surveyor shall re-establish monument, record new monument record and provide copy to District 3 Plats and Plans (usually paid for as Land Section Marker)

The table information will be provided by the District Land Acquisition department. Tie points for notes 1 and 2 will generally be for resurfacing projects. Tie points for note 3 will generally be for projects with major ROW purchases where existing topography is being destroyed.
### Diagram and Notes

#### Diagram Content
- **RTE 25R** Contract No. 12345
- **SCALE:** NO SCALE
- **DATE DESIGNED:**
- **CHECKED:**
- **DRAWN:**
- **REVISED:**
- **REVISED:**
- **REVISED:**
- **USER NAME:** PLOT SCALE = 50.0000 ' / IN.
- **PLOT DATE:** Mar 30, 2010 - 11:12:11 AM
- **FILE NAME:** c:\pw_work\PWIDOT\VERDINEML\dms34852\verdine.dgn

#### Notes
1. **ENGINEER WILL RE-ESTABLISH MONUMENT**
2. **ENGINEER WILL RE-ESTABLISH MONUMENT AND FURNISH TIE SKETCHES TO DISTRICT 3 PLATS & PLANS**
3. **PROFESSIONAL LAND SURVEYOR SHALL RE-ESTABLISH MONUMENT, RECORD NEW MONUMENT RECORD AND PROVIDE COPY TO DISTRICT 3 PLATS & PLANS**

#### Table: Tie Points and Locations

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### Additional Notes
- **PSM = PERMANENT SURVEY MARKER**
- **EXISTING MONUMENT TYPE:**
- **PROPOSED MONUMENT TYPE:**
- **EXISTING MONUMENT TYPE:**
- **PROPOSED MONUMENT TYPE:**

#### Ties to Specific Points
- TIES TO NE CORNER OF SECTION 22, T25N, R7E - REPLACE WITH LAND SECTION MARKER STA 45|22
- TIES TO NW CORNER OF SECTION 26, T25N, R7E - REPLACE WITH LAND SECTION MARKER STA 1279+87.66, 8.4' EAST OF IL 47 CENTERLINE
- TIES TO SW CORNER OF SECTION 26, T25N, R7E - REPLACE WITH LAND SECTION MARKER STA 306+41.06, 4.0' EAST OF IL 47 CENTERLINE
- TIES TO EAST QUARTER CORNER OF SECTION 34, T25N, R7E - REPLACE WITH LAND SECTION MARKER STA 545|00
- TIES TO POT - REPLACE WITH PK NAIL STA 171+00
- TIES TO SW CORNER OF SECTION 27, T25N, R7E - REPLACE WITH PERMANENT SURVEY MARKER STA 223|26
PLAN AND PROFILE VIEWS

1. Provide mainline plan and profile sheets first, followed by other plan and profile sheets as they appear along the centerline.

2. Plot existing and proposed facilities using proper levels. See CADD Roadway Drafting Reference Guide for more clarification.

3. Keep all notes brief, clear, and consistent.

4. Label sheet with applicable stations.

5. Place description of sheet here

6. Provide tic marks along the centerline at 100 ft (50 m) intervals and note the station.

7. Use matchlines on sheet. Provide the correct district North arrow on each sheet.

8. On projects where a coordinate system has been set up, show the coordinates for all control points.

9. For rural facilities, use a plan view scale of 1 in = 50 ft (1:500 metric). For urban facilities, use a plan view scale of 1 in = 20 ft (1:250 metric).

10. For all control points along the centerline, provide a 0.1 in (2.5 mm) diameter circle on the centerline.

11. Place the horizontal curve data on the inside of the curve to which it applies. Present the curve data in accordance with the format and accuracy presented in Figure 63-4D of the BDE Manual.

12. Include the pavement edge elevations and super-elevation rates for super-elevated sections.

13. Show perpendicular lines from the centerline to the inside of the curve at all curve control points. Indicate the curve control point and station.

14. Where deflection angles are used, show the angle to nearest second of a degree. Include coordinates, if available.

15. Note all pavement widths at the beginning and end of each sheet and wherever there is a change in pavement width.

16. Show existing and proposed structures.

17. Ensure station call-outs are provided at:
   - beginning and end points of the project,
   - matchlines with other projects,
   - omissions from paving and station equations,
   - 100 ft (50 m) station increments,
   - horizontal curve points,
   - beginning and ending points of tapers,
   - construction limit locations,
   - right-of-way alignment breaks,
   - curb returns for entrances and intersections,
   - entrance centers, special construction applications,
   - side street intersections, permanent survey and right-of-way markers, section lines, and other necessary locations.

18. In general, do not show utility and drainage information on the plan and profile sheets; just show topography features. Provide other information on the drainage plan and profile sheets.

19. If separate right-of-way sheets are included with the plans, show the existing and proposed right-of-way limits on the plans. If the right-of-way plans are not included with the plans, also incorporate the following:
   - dimensions of the properties to be acquired,
   - station ties to property lines,
   - property ownership lines,
   - parcel numbers,
   - property owner names,
   - station locations of right-of-way alignment breaks,
   - temporary and permanent easement locations,
   - points where the control of access does not coincide with the right-of-way line,
   - location of right-of-way markers, and any pertinent data that will affect right-of-way costs.

20. Show all approved points of entry or exits across control of access lines.

21. Show the locations for all new and existing guardrail installations.

22. For entrances and side road intersections, show the following:
   - the facility with the applicable street name, route number, or entrance type;
   - the existing surface material type;
   - the width of the intersecting facility;
   - for intersections with public roads, the angle of intersection from the side road centerline to the mainline centerline; and
direction of ditch drainage.

23. Properly label all additional constructed improvements.

See Chapter 63 of the BDE Manual for additional information on what is shown on the plan/profile sheets.
PLAN AND PROFILE VIEWS (continued)

Additional items the District is looking for on the plans sheets are:
ADA compliance
Locations of any traffic counter loops
Locations of asbestos removal
Locations of septic tank or well abandonment
Locations of underground storage tanks
Locations of protected areas such as wetlands, hazardous waste, or property owner commitments

PROFILE VIEW

24. Show the profile of the finished surface or top of the subgrade along the centerline for the proposed facility.
25. Use the same horizontal scale as shown for the plan view. The vertical scale is typically 1 in = 5 ft (1.50 metric) or 1 in = 10 ft (1.00 metric).
26. Show the existing ground line to the nearest 0.1 ft (30 mm) and existing pavement surfaces to the nearest 0.01 ft (5 mm).
27. Show the vertical curve data above the profile line for crest curves and below the profile line for sag curves. Include the following vertical data for each curve:
   - small triangle at the VPI
   - small circles (0.1 in (2.5 mm) diameter) at all other vertical curve control points,
   - the VPI station, including short segments of vertical tangents,
   - the vertical curve length,
   - the elevation at the VPI, and
   - the "M" distance between the VPI and roadway surface.
28. Show tangent grades to the nearest hundredth of a percent (i.e., 0.01%). Use a "+" prefix for positive grades and a "-" prefix for negative grades.
29. Show the benchmark information on the top portion of the profile view.
30. Show the elevations for the survey line and proposed centerline vertically every 100 ft (25 m) for rural projects and every 50 ft (10 m) for urban projects. For vertical curves, use a closer interval.
   - The survey elevation is shown to the left of the station ordinate line and proposed centerline elevation to the right.
31. Provide additional profiles, where necessary, for:
   - pavement edges,
   - drainage structures,
   - special ditches,
   - side roads, and
   - other situations.
32. Show locations of all undercutting for unsuitable materials with cross hatching and show this excavation to the top of subgrade. Note the applicable stations and depth of excavation on the profile sheet.
33. For bridges within the project, show elevations for:
   - abutments,
   - piers,
   - low vertical clearance points,
   - the high water level, and
   - stream bed.
Suggested Stages of Construction and Traffic Control

Determine which IDOT Highway Standards are applicable for the traffic control on the project.

Where necessary, provide plan view sheets showing:
- temporary roadway horizontal alignment,
- temporary pavement widths,
- temporary traffic lanes,
- proposed construction staging,
- temporary traffic signals,
- location of signing for work zones,
- temporary pavement markings,
- roadside safety layouts, and
- general notes for construction, closures, time frames, etc.

Where necessary, provide the temporary roadway profile grade line on the profile sheet.

The following is a list of items that will be used during the plan review process. It contains District 3 preferences to be considered during the plan preparation process for Traffic Control/Staging plans.

Include temporary:
- Lighting
- Signals
- Bridge Rail
- Concrete Barriers
- Guardrail
- Earthwork
- Paving Widening
- Sheet Piling
- Attenuators
- Rumble Strips (for mainline interstate, multilane, and high accident locations)

Check for adequate lane widths
Check construction access for entrances, side roads, and streets
Check that there is adequate work space for contractor operations and access to work areas
Check interstate jobs for possible shoulder reconstruction or bridge deck repair
Use Material Transfer Device on Interstate projects
Paint yellow pavement marking line on concrete barrier (District 3 Cadet detail) (use discretion - Highway Standards 701402 and 701416)
Check project report for approved methods for traffic control and any staging, detour, or alternate route requirements
Check project report for any local agreements, including local road repairs after detour or alternate route completion
Check existing shoulder conditions for possible shoulder widening requirements for bridge repair or replacement projects
Check taper lengths for adjacent construction areas, is there adequate space between or do they need to be combined
Evaluate temporary lighting needs for interstate crossovers and ramps to see if existing lighting already meets requirements
Use District detail, 701400 Special, instead of Standard 701400
Consider coordinating multiple temporary traffic signals with timing or interconnect cable
NOT TO SCALE

NOTES

PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR
SHALL CONTACT J.U.L.I.E.

IDOT WILL SUPPLY 32 M1-4 SIGNS FROM DISTRICT 3
BUREAU OF OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE
FOR ERECTION, MAINTENANCE, AND REMOVAL OF IDOT-SUPPLIED
SIGNS. ALL OTHER SIGNAGE SHALL BE SUPPLIED BY THE
CONTRACTOR.

ANY IDOT SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN
A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY
SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN
COVERED OR CHANGED BY THE CONTRACTOR SHALL BE COVERED OR REPLACED
AT THE CONTRACTOR'S OWN EXPENSE.

THE DETOUR IS REQUIRED TO REMAIN IN PLACE UNTIL THE WORK
NECESSARY TO REMOVE STRUCTURE 050-0095 AND RECONSTRUCT
US ROUTE 6 HAS BEEN COMPLETED EXCEPT FOR THE FINAL
SURFACE COURSE LIFT.

SEE STAGE CONSTRUCTION SHEETS FOR ADDITIONAL ROAD CLOSURE
SIGNING.

SEE STANDARDS 701801 AND 702001 FOR ADDITIONAL
INFORMATION.

NOTES

LEGEND (THIS SHEET)

SEE OTHER PLAN SHEETS FOR MORE DETAILS

NOT TO SCALE
NOTES:
1. PRIOR TO INSTALLING POST MOUNTED SIGNS, the contractor shall contact JULIE.
2. A TRUCK DETOUR IS REQUIRED DURING STAGE II CONSTRUCTION.
3. PROPOSED GUARDRAIL ON THE SOUTH SIDE OF THE STRUCTURE SHALL BE INSTALLED PRIOR TO STAGE II.
4. PROPOSED GUARDRAIL ON THE NORTH SIDE OF THE STRUCTURE SHALL BE INSTALLED DURING STAGE III.
5. THE SURFACE COURSE SHALL BE PLACED AFTER STAGE III CONSTRUCTION.
6. SEE STANDARDS 701321 AND 702001 AND STRUCTURE DETAILS FOR ADDITIONAL INFORMATION.
7. SIGNS INCLUDED IN COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR STAGING QUANTITIES

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LEGEND
• TYPE III BARRICADE
• SIGN
• DRUM WITH STEADY BURNING LIGHT
• TRAFFIC SIGNAL WITH BACKPLATE
• MICROWAVE
• TEMPORARY CONCRETE BARRIER
• IMPACT ATTENUATOR
• WHITE PAINT MARKING TAPE TYPE III 24" TAPER 12:1
• WHITE PAINT MARKING TAPE TYPE III 4" TAPER 8:1
• TEMPORARY CONCRETE BARRIER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
STATE CONSTRUCTION TRAFFIC CONTROL IN ENVIRONMENT STAGE I

NOT TO SCALE
Determine which IDOT Highway Standards are applicable for erosion and sediment control on the project.

Where necessary, provide any commitments or General Notes that relate to erosion and sediment control.

Where necessary, provide plan view sheets showing:
- proposed construction staging,
- location and protection of environmentally sensitive areas,
- location of erosion and sediment control items, and
- general notes for construction, pay items, etc.

Use double plan sheets as appropriate.
NOTES:

1. 'TEMPORARY EROSION CONTROL SEEDING' WILL BE PLACED ON ALL ERODIBLE EARTH AREAS AS DIRECTED BY THE ENGINEER AS PER THE SPECIFICATIONS.

2. CONTRACTOR MUST MULCH ALL AREAS DISTURBED AS A RESULT OF TEMPORARY PAVEMENT PLACEMENT IN PRE-STAGE 1. PAYMENT WILL ONLY BE FOR THE 10' SHOWN. ADDITIONAL MULCH PLACED WILL BE DONE SO AT THE CONTRACTOR'S EXPENSE.

3. TEMPORARY MULCH WILL MEET REQUIREMENTS OF AND BE PAID FOR AS "MULCH, METHOD 2".
1. For culverts, note the following on the drainage plan view sheet:
centerline station for the ends,
direction and distance of the ends from the centerline,
culvert type (do not specify pipe material),
pipe size and length,
flow direction,
skew angle,
upstream and downstream flow elevations,
end section or headwall type and size,
waterway table if not shown elsewhere in plans, and
all applicable construction notes.
2. For storm drainage pipes, show the following:
Plan View
  each run of pipe between manholes, catch basins, and inlets;
pipe diameter and length; and
gradient.
Profile View
diameter of pipe,
type of pipe (do not specify pipe material),
length, and
gradient.
3. For manholes, catch basins, and inlets, show the following:
Plan View
centerline station,
direction and distance from centerline,
edge of pavement or ground elevation, and
invert elevations for all pipes.
Profile View
centerline station,
direction from centerline,
device type and size,
invert elevations for all pipes, and
top of casting elevation.
Note: If Flat Slab Top or Restricted Depth is required.
4. For end sections, show the following:
Plan View
centerline station and offset,
type, and
size.
Profile View
centerline station,
direction from centerline,
device type and size, and
cutoff elevation at the bottom of pipe.
5. Note special ditch locations with invert elevations at 100 ft (25 m) intervals on the cross sections. On the profile view note:
  gradient percentage,
centerline station,
begning and ending elevations, and
elevations at gradient changes.
6. Show drainage direction arrows for all ditches, waterways, and streams.
7. Note all overhead utilities where they cross the centerline and the type of utility.
8. Note all underground utilities within the right-of-way limits affected by the construction with the following:
Plan View
centerline station,
direction and distance from the centerline, and
all applicable elevations.
Profile View
type and size.

For Waterway Table guidelines see 1-303.02 Plan Notation - Waterway Information in the IDOT Drainage Manual found at the IDOT web site:
www.idot.illinois.gov
Doing Business
Engineering, Architectural & Professional Services
Consultant Resources
Bridges & Structures
Hydraulics
Technical Manuals

Drainage and Utilities Sheets

If rock is suspected or known to be in the area, verify the rock elevations and whether rock excavation is needed or not.

When utilities have been located using a S.U.E. survey, include the test hole locations on the drainage sheets with a page reference to the test hole data sheet.
Include test hole data sheets in plans immediately following the utility sheets from S.U.E.

Check horizontal and vertical separation distances between water main, storm sewers, and sanitary sewers. See Standard Specifications for Water and Sewer Main Construction in Illinois. See District Special Provisions for specific pay items. Include necessary District CADD details.

If watermain work is required, notify District as soon as possible to allow time for obtaining required permits.
Include the following sheets and details when needed:

Removal Sheets
Right-of-way sheets
Obtain these from the District Bureau of Land Acquisition
Check that shown correctly on other plan sheets and cross sections
Intersection details
Include pavement elevations,
lane widths,
curb or edge of pavement radii,
curb ramps,
turning radii for left-turning vehicles,
location of median noses and islands,
location of traffic signal equipment,
location of loop detectors,
location of traffic signs,
pavement markings, and
construction joint layout
Pavement marking details
District uses 6” centerline skip dashes
District uses the large size arrows in urban and rural, note on plans
Check for appropriate lane widths
Show layout information
Show raised reflective pavement markers
Landscaping details
If plans are simple, consider combining with pavement marking detail sheets
Traffic signal details
Verify pole locations are not in ditch flow lines
Check for conflicts at proposed pole locations
Check clear zone requirements
Check to see if borings are necessary
Check placement of loop detectors in relation to stop bar locations
Check for electrical supply
Show loading diagrams
Lighting details
Lighting at interstate interchanges
Check to see if borings are necessary
Check for electrical supply
Show loading diagrams
Structure sheets
Include boring logs on CADD generated sheets and
check to see that borings are complete and adequate
verify rock elevation does not require separate item for rock excavation
Check approach details
Check for bridge painting, coordinate with District
Check for piling or footing conflicts, such as from old structures
Include shoulder repair quantities for shifting traffic
Contact District to see if any utilities are attached to structure
Include existing structure plan sheets for information only (supplied by district)
or if project has been selected to follow the SAR procedures, coordinate with
district for inclusion of structure information and general notes required. See
GBSP 67 and ABD 09.1 for information.

Wetland details
Culvert details

Refer to the following locations in the BDE Manual for guidance:

63-4.11 Right-of-Way Plan Sheets
63-4.12 Intersection Details
63-4.13 Pavement Marking Details
63-4.14 Special Plans
63-4.14(a) Landscaping Details
63-4.14(b) Traffic Signal Plans
63-4.14(c) Lighting Plans
63-4.14(d) Structure Plans
63-4.14(e) Wetland Plans
Include lighting standard sheets as needed such as:
Control Installation
Light Tower and Foundation
Light Pole Foundation
Pole Standards
Detail for Nighttime Lighting Inspection

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 30' (9 m) from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 150' (46 m). Total aerial and underground service between the control installation and primary transformer shall not exceed 250' (76 m).

For 480 V. systems, a 480/120 V. control transformer will be required.

Where soil conditions permit, and where approved by the Engineer, a 6" x 8" x 5'-0" (150 mm x 200 mm x 1.5 m) long metal screw in foundation may be used in lieu of a concrete foundation.

All dimensions are in inches (millimeters) unless otherwise shown.
FILE NAME
No salvage
Existing Structure: S.N. 050-0094, built in 1966 as S.B.I. Route 7 (F.A.S. Rte. 260), Section X-1BR.

Elevation 498.336
Bench Mark: Chiseled " " on hubguard Southwest corner of bridge 15.4' Rt. Station 1035+17,
Elev. 497.92
Bk. W. Abut.

= Elev. 488.08
P.C. Sta. 1032+80.61
P.I. Sta. 1034+00.61
-1.63%
Elev. 499.78
PROFILE GRADE

PLOT SCALE
Stage I
Stage II
Elev. 497.82
Elev. 497.88
Const.

Elev. 497.82
(1964)
Boring #2
Stage Const. Line
87'-8''
(1964)
Boring #3

Elev. 497.82
(1964)
Boring #4

Elev. 495.32
A
Exist.
1203
1125
1203
1125
-12''

Elev. 495.32
A
Exist.
468.3
467.6

Gutter Grooves shall be level with surrounding surface.
Max. Calc.

...
**SOIL BORING LOG**

- **BORING NO.**
- **STRUCT. NO.**
- **SECTION**
- **COUNTY**
- **ROUTE**
- **LOCATION**
- **DETAILED ROUTE**
- **DESCRIPTION**
- **DRILLING METHOD**
- **REVISION**
- **HAMMER TYPE**
- **LOGGED BY**
- **CHECKED**
- **DRAWN**
- **DESIGNED**

<table>
<thead>
<tr>
<th><strong>GROUND SURFACE ELEV.</strong></th>
<th><strong>OFFSET</strong></th>
<th><strong>STATION</strong></th>
<th><strong>STATION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>495.5</td>
<td>-</td>
<td>11+07.85</td>
<td></td>
</tr>
</tbody>
</table>

- **GROUNDWATER ELEV.**
- **SURFACE WATER ELEV.**
- **STREAM BED ELEV.**
- **F.A.P.**

- **GROUNDWATER ELEV.**
- **SURFACE WATER ELEV.**
- **STREAM BED ELEV.**
- **F.A.P.**

**THE SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206).**

- **THE UNCONFINED COMPRESSIVE STRENGTH (UCS) FAILURE MODE IS INDICATED BY (B-BULGE, S-SHEAR, P-PENETROMETER).**

- **Yellowish Brown & Gray CLAY**
- **Brown to Medium to Very Stiff Reddish**
- **Soil Description:**
  - **White & Limestone Fragments**
  - **Hard Gray (CLAY) SHALE**
  - **Black CLAY**
  - **Very Stiff Olive Gray & Brownish CLAY LOAM**
  - **Soft to Medium Black Organic LIMESTONE**
  - **Medium Gray LIMESTONE**

**STATE OF ILLINOIS**

**DEPARTMENT OF TRANSPORTATION**

**CONTRACT NO. 66617**

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

**District Three Materials Division of Highways**

**STRUCTURE NO. 050 - 0094**

**US 6 OVER LITTLE VERMILION RIVER EAST**

**FILE NAME**

**PLOT DATE**

**PLOT SCALE**

**FILL**

**SEE CADD STRUCTURES DRAFTING REFERENCE GUIDE**

Existing boring stations are based on C Bridge or 9+65.00. Proposed Bridge Site: 0+79.78.
Where necessary, the following details may be included:

Special drainage details that are not covered in the IDOT Highway Standards or on the drainage plan and profile sheets
Field tile details
Earthwork details for interchanges requiring significant earthwork
Signing plans
Super-elevation transition diagrams
Railroad crossing details
District CADD details
Butt joint details
Transition details where there is a change in the roadway surface or base course width. These details should include:
- beginning and ending stations,
- distances and direction from the centerline, and
- all necessary curve data
Transition details where there is a change in roadway material's depth
Any special designs not covered in the IDOT Highway Standards or elsewhere in the plans
ADA SIDEWALK ACCESSIBILITY RAMPS

METHOD 1

TYPICAL CURB APPLICATIONS FOR METHOD 1


DETAILS
SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

SECTION B-B

DETAIL A

MILLING AND RESURFACING TAPER

PLAN AT SIDE ROADS

PLAN AT PRIVATE & COMMERCIAL ENTRANCES

HMA SURF REM - BUTT JOINT
END OF IMPROVEMENT
Some guidelines for cross sections are:

1. Plot rural cross sections at 100 ft intervals and urban cross sections at 50 ft intervals.
2. Plot intermediate cross sections at all major grade breaks, pipe crossings, side streets, entrances, guardrail terminals, and other locations as necessary.
3. Ensure the spacings between cross sections do not overlap.
4. The mainline cross sections are placed first, by increasing stations, from the bottom of the sheet to top of the sheet. Provide the cross sections for other facilities after the mainline cross section in the order they appear along the mainline.
5. Note the stations of the cross section shown on the bottom of the sheet. Also note the name of the facility to which the cross sections apply.
6. Use a horizontal scale of 1 in = 5 ft or 1 in = 10 ft. The vertical scale is a 2:1 proportion of the horizontal scale. Show at least two elevation lines for each cross section.
7. Plot the existing cross section using a light, dashed line and show the existing:
   - ground line,
   - pavement structure,
   - drainage structures,
   - major utilities,
   - all affected structures,
   - existing and proposed right-of-way and easement lines, and
   - bodies of water near the right-of-way limits;
8. Plot the proposed cross section using a dark, solid line and show:
   - centerline (and the profile grade line, if different);
   - proposed pavement structure;
   - all side road and entrances;
   - curb and gutter;
   - sidewalk locations and depth;
   - proposed side slopes;
   - special fill materials;
   - all new drainage structures, include the following:
     - centerline station,
     - distance and direction from centerline,
     - description and size of structure,
     - top and flow line elevations;
   - all underground utilities;
   - special ditch elevations and drainage direction;
   - proposed right-of-way and easement lines; and
   - any other special features.
9. Provide the proposed centerline pavement surface elevation vertically on each cross section.
10. Label the side slope on the first and last cross section of each sheet and where there are changes in the slope. Show the side slope using a vertical to horizontal ratio, e.g., 1V:3H.
11. Show the end area cut and fill amounts, in square feet, below each cross section.
12. Show all undercutting for subgrade and unsuitable material.
13. Show all earthwork for temporary pavements.
14. Provide separate cross sections for all approaches including side roads and entrances, and note the approach type, direction from centerline, and station next to the cross section.
Highway Standard Sheets

The *IDOT Highway Standards* will be the last sheets added to the project. The Bureau of Design and Environment will be responsible for adding these sheets to the plans. The sheets added will be based on the listing provided in the Index of Sheets.