

COUNTY:	
FED. PROJECT NO.:	
P.E. NO.:	
PIN NO.:	
DESCRIPTION:	
DESIGNER:	
TDOT SUPERVISOR:	
PROJECTED ROW AUTHORIZATION DATE:	
PROJECTED LETTING DATE:	
County, state route, and d Begin/End project labeled Proper identification block Transportation Manager 2 Project county identified of Design traffic and design s PIN P.E. project number Equations or exclusions Scale ROW Length Survey date Index (ROW) Type of work (Preliminary Road closure Note North arrow Construction project number	plans)
fill slopes from standard d	ctions siness entrance typical cross-sections

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C. PROPERTY MAP
<ul> <li>□ Boundary lines on all properties involved</li> <li>□ Existing roads and streams with names</li> <li>□ Proposed roadway centerline</li> <li>□ Utility owner's information</li> <li>□ Identify begin/end of project (ROW) (includes project number)</li> <li>□ Right-of-way (ROW) Acquisition Table with property owners names, tract numbers, total area, deed book and page number of original tract</li> <li>□ Proposed ROW and drainage easement</li> <li>□ Proposed control-access fence</li> <li>□ ROW and Utility notes</li> <li>□ North arrow</li> </ul>
D. PRESENT LAYOUT SHEET
Existing topography and existing ROW lines Location diagram or coordinates for reference points Tentative slope lines Tentative ROW and easement lines Loss of access or impaired access shown Cross-drains (existing and proposed) Datum adjustment Proposed horizontal alignment with curve data Tentative driveway locations Utilities (existing) Tract numbers and owners All side roads properly labeled Identify Begin/end of project (ROW) (includes project number) Proposed control-access fence Label any known environmental constraints North arrow
If R.O.W. Detail Sheets are NOT used  Existing ROW dimensions
☐ Breaks in proposed ROW flagged
R.O.W. DETAILS SHEET (if used in plans)
<ul> <li>□ Existing ROW lines, dimensions</li> <li>□ Location diagram or coordinates for reference points</li> <li>□ Tentative slope lines</li> <li>□ Tentative ROW and easement lines</li> <li>□ Loss of access or impaired access shown</li> <li>□ Datum adjustment</li> <li>□ Proposed horizontal alignment</li> <li>□ Breaks in proposed ROW flagged</li> <li>□ Tentative driveway locations</li> <li>□ Tract numbers and owners</li> </ul>
<ul><li>☐ Identify begin/end of project (ROW) (includes project number)</li><li>☐ Proposed control-access fence</li><li>☐ North arrow</li></ul>

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# E. PROPOSED LAYOUT SHEET

☐ Proposed horizontal alignment	
Pavement lines	
☐ Turn lanes	
☐ Preliminary intersections	
☐ Traffic turning movements at all intersections	
Railroad crossings data (per design guidelines)	
Preliminary guardrail locations	
Preliminary storm drainage system proposals (ma	
Identify begin/end of project (ROW) (includes proj	ect number)
Label limits of construction on side roads	
Retaining walls (tentative)	
Cross-drains	
Street lighting (tentative)	
☐ Noise walls (tentative)	
Special ditches proposed	
Channel changes proposed	
Signal pole locations (tentative)	
Equations or exclusions	
Proposed drives (tentative)	
Proposed span bridges (tentative)	
Datum adjustment	
Label side roads	""OLLO
☐ Streams (with names and show direction of flow a ☐ North arrow	ilows)
F. PROFILES	
THOTIES	
☐ Benchmarks data	
Ground line and proposed grade	
☐ Main line	
☐ Side roads	
☐ Ground line and tentative grades for proposed pri	vate drives, business and field entrances
☐ Ground line and tentative grade for other ramps	
Label curve length, "K" value and design speed for	
Identify begin/end of project (ROW) (includes proj	ect numbers)
Tentative drainage data for cross-drains	
☐ Preliminary balance points for earthwork quantitie	s with approximate excavation and
embankment volumes in estimated balance	
Underground utilities; above-ground utilities (cross	sing locations only)
Equations and exclusions	
S.E. data (F.S.E.; trans.; D and etc)	
☐ Identify intersecting roads	

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#### **G. DRAINAGE MAP** Proposed horizontal alignment with existing drainage (including areas and type of terrain) North arrow, flow arrows, contours, road network, and streams Proposed cross drains Approximate location of drainage structures with area, "C" factor, flow, type, and size Side drains (42 inches or larger) Channel changes ☐ Boundaries of any wetland areas H. <u>CULVERT CROSS SECTIONS</u> (PRELIMINARY) Cross-drain template ☐ Type E.W. proposed Station and drainage data Sheet name and scale I. ROADWAY CROSS SECTIONS ☐ Ground lines Finished grade elevations Superelevation rates with beginning and end station of transition Proposed template Cut and fill areas Adjustments for guardrail flare Horizontal and vertical scale ☐ Label and station all cross-sections Label special ditches (elevation) Retaining wall (as applicable/available)

Label cross drain with size and skew

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COUNTY:	
FEDERAL PROJECT NO.:	
P.E. NO.:	
PIN:	
DESCRIPTION:	
A. <u>TITLE SHEET</u>	
Begin/end of projet ROW length Signatures in sign Equations block Exclusions block Finalized index of ROW project num	ature block sheets for ROW bers ded as type of work labeled
B. <u>SECOND SHEET</u>	
Noise wall typicals Special ditch typic Station limits adde Pavement schedu Guardrail location Typical section ad Finalize mainline	als ed to different typicals le proposed (if available)
C. PROPERTY MAP	
<ul><li>☐ Acquisition block for remaining</li><li>☐ ROW notes, utility</li></ul>	

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# D. PRESENT LAYOUT SHEET

☐ All slopes checked with cross-sections for correctness☐ Temporary easement for haul roads, erosion prevention and sediment control, sediment
ponds, and detention areas etc.
<ul><li>☐ Proposed structures where a fence will be turned into the wingwalls</li><li>☐ Finalize proposed private drives, business and field entrances</li></ul>
Show areas to be scarified and/or obliterated
Show property with impaired access or loss of access
Show construction run-around
Railroad easement note Existing wetland areas
All appropriate data cross-checked with property map sheets
☐ Beginning and end of project
Incorporate special items from Environmental document
If R.O.W. Detail Sheets are NOT used
All existing ROW lines properly identified and referenced
All proposed ROW lines properly identified with bearings, distances and offsets to the
proposed centerline  Permanent easements identified with bearings, distances, offset and stations at ROW line
(signal poles, culvert outlets and/or rip-rap)
Access control fence limits (beginning and end with stations and offsets)
ROW markers shown with stations, offsets and type markers (State system only)
R.O.W. DETAILS SHEET (if used in plans)
All slopes checked with cross-sections for correctness
All existing ROW lines properly identified and referenced
All proposed ROW lines properly identified with bearings, distances and offsets to the proposed centerline
Permanent easements identified with bearings, distances, offset and stations at ROW line
(signal poles, culvert outlets and/or rip-rap)
Access control fence limits (beginning and end with stations and offsets)  Temporary easement for haul roads, erosion prevention and sediment control, sediment
ponds, and detention areas etc.
Finalize proposed private drives, business and field entrances
Show property with impaired access or loss of access
☐ Show construction run-around
☐ Show construction run-around ☐ Railroad easement note
☐ Show construction run-around

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# E. PROPOSED LAYOUT SHEET

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I.	<b>EPSC PLANS:</b> to be included in ROW plans (all grade and drain projects)
	Small scale layout of project; adequate to show erosion control items including centerline  Special EPSC notes and erosion control legend on first EPSC sheet  Utility Relocation Notes (if applicable) on first EPSC sheet  NPDES Notes (if applicable) on first EPSC sheet  Location and flow direction of existing and proposed ditches  Boundaries of wetlands; labels of streams and ponds or WWC (per Environmental Letter)  Stream relocation  Existing and/or proposed contours on EPSC plans or separate sheets  Major drainage structures (i.e. cross drains, culverts, etc.)  Location of proposed diversion channels  Edges of pavement  Slope lines  Depict erosion control items/ devices  Ecology report (received)  Wetland Mitigation Plan and notes (if applicable)  Existing features such as homes, drives, fences, etc. (optional)  Existing public roads with names (optional)  Proposed ROW and easements  North arrow
J.	EXISTING CONTOURS (Phase 1 of EPSC Plans or may be on separate sheet)  Centerline
	☐ Contour elevations ☐ Existing contours ☐ Existing and proposed edges of pavement
	Major drainage structures (i.e. cross drains, culverts, etc.)  Streams and rivers ROW project numbers North arrow
K.	. PROPOSED CONTOURS (Final Phase of EPSC Plans or may be on separate sheet)
	<ul> <li>☐ Centerline</li> <li>☐ Contour elevations of proposed contours</li> <li>☐ Scale and sheet name</li> <li>☐ Existing and proposed edges of pavement</li> <li>☐ Major drainage structures (i.e. cross drains, culverts, etc.)</li> <li>☐ Streams and rivers</li> <li>☐ Proposed slope lines</li> <li>☐ North arrow</li> </ul>

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L. TRAFFIC CONTROL PLANS (WORKING DRAWINGS ONLY)
<ul> <li>□ Layout of project showing preliminary phasing plan for stage construction (where necessary) for each phase</li> <li>□ Existing and proposed major drainage structures</li> <li>□ Temporary or permanent traffic signals</li> <li>□ Finalize design of run-arounds, cross-overs, temporary pavement, and temporary pipes/ditches to determine ROW and Construction Easement requirements</li> <li>□ North arrow</li> </ul>
M. PAVEMENT MARKING PLANS AND/OR SIGNING
<ul> <li>Special marking details (to scale) to show limits of marking for intersections, left turn lanes and right turn lanes, ramp entrances and gore areas</li> <li>Submit print with CD or plan sheet to Design Traffic Engineering Section, Signing Office (Interstate and control of access projects)</li> </ul>
N. <u>ROADWAY CROSS-SECTIONS</u> (FINALIZED)
Finalize ground lines Finished grade elevations Superelevation rates with beginning and end station of transition Proposed template Cut and fill areas for all type materials and volumes Adjustments for guardrail flare Rock lines and slopes per soils report Horizontal and vertical scale; sheet name Label and station all cross-sections locations Label special ditches (elevation) Retaining wall (as applicable)
O. <u>FINAL PREPARATION OF PLANS</u>
<ul> <li>☐ Consultant engineer's seal, signature, and date on title sheet</li> <li>☐ R.O.W. project number added to data block at upper right of all plan sheets</li> <li>☐ All data inked or shown on CADD</li> <li>☐ All plans produced on bond</li> </ul>
P. ENVIRONMENTAL PERMIT SKETCHES (per: permit assessment report)
<ul> <li>□ Vicinity map</li> <li>□ Location map</li> <li>□ Permit sketch for each site where there is bank stabilization, channel changes, or culverts longer than 200 feet</li> <li>□ Permit sketch for each site where the project falls within an area where there are endangered species, streams with contaminated sediments, or wetland impacts</li> </ul>
R. PRELIMINARY CONSTRUCTION QUANTITIES ESTIMATE (electronic excel file)
<ul> <li>Preliminary quantities calculated and entered into TDOT spreadsheet</li> <li>List any anticipated pay item that cannot be quantified at submittal</li> <li>Descriptions on open-ended item numbers completed</li> <li>Project totals shall be per county and/or project number</li> </ul>

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COUNTY:	
FEDERAL PROJECT NO.:	
P.E. NO.:	
PIN:	
DESCRIPTION:	
A. TITLE SHEET	
local roads, streamy Scale Scale County Route and descrip Design traffic Proper Identificati Transportation Ma P.E. project numb PIN Beginning and en Roadway, bridge, Signature in signat Equations and ex Type of work (i.e. Adjacent construct "See Sheet No. 1.	on Block completed, name of Supervisor 2, CE Manager 1, or anager 2, Consultant firm, and/or Designer (as applicable) over  d of project with project number and stations box bridge and project length ature block clusions block grade, drain, bridge, pave, sign, lighting, etc.) etion projects labeled A for index" added to index area a present layout sheet on map with construction sheet number identified atternals.
B. INDEX AND STAN (See section 4-133	DARD DRAWINGS .00 of Roadway Design Guidelines for proper sequence of sheets)
Estimated Roadw Estimated Utilities Typical sections a General notes, sp Tabulated quantit Detail sheets	Quantities and Structural Index (if required) ay Quantities c Quantities and pavement schedule secial notes, and scope of work ies I ROW acquisition tables applicable)

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## B. INDEX AND STANDARD DRAWINGS (CONT'D)

		Proposed Profile mainline
		Public side road and ramp profiles
		Private drive, business and field entrance profiles
		Interchange grading plans
		Drainage maps
		Culvert sections
		Erosion prevention and sediment control (EPSC) plans
		Contour sheets
		Mitigation plans
		Traffic control plans with construction phasing note
		Pavement marking plans (if not standard)
		Signing plans (including sign schedule and layout sheets)
		Signalization plans (including details and layout sheets)
		Lighting plans (including details and layout sheets)
		Geotechnical plans, including typicals
		Utilities Index, Utility Owners, and Utility sheets
		Roadway cross-sections
		Side road cross-sections
		Box bridge and culvert standards listed with drawing number and description to be printed
		with plans
		Existing plans with file drawing numbers cross-referenced to file locations (if needed)
		Standard roadway drawing applicable for this project listed with drawing number and
		current revision date
		Construction project number
_		
C.	<u>E</u> \$	STIMATED ROADWAY QUANTITIES SHEET
		Roadway quantity block with all items of construction to be bid
	ш	Item number
		Description
		Units
		Quantity
		Footnotes
	H	Box bridge quantities
	ш	□ Block
		☐ Item number
		Description
		Units
		Quantity
		Multiple quantity columns for 2 or more counties/project numbers
	Ħ	Removal items (from ROW Division)
	П	Quantities on this sheet checked against other tabulation blocks
	Ħ	
		Quantities checked and item numbers agree with cost estimate form
	H	Quantities checked and item numbers agree with cost estimate form Signing quantities
		Signing quantities
		Signing quantities Lighting quantities

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#### D. TYPICAL SECTION SHEETS R.O.W. typicals (if construction plans did not involve a ROW project, use the preliminary and ROW second sheet checklist) Pavement lavers Pavement thickness Proposed pavement schedule and pavement items coded ☐ Future finished grade with second paving described (if applicable) ☐ Underdrains Construction project number E. GENERAL NOTES AND SPECIAL NOTES SHEET ☐ Grading Seeding and sodding Guardrail ☐ Drainage Utilities Fencina Miscellaneous Road closure Right-of-way (See Sheet No. ) Pavement markings ☐ Pavement Graded solid rock Riprap Signing Notes Traffic control directional signing notes ☐ Signalization Construction work zone and traffic control (See Sheet No. \_\_\_) Lighting (See Sheet No. \_\_\_) Erosion prevention and sediment control notes (Special EPSC Notes see Sheet No. \_\_\_) Wetland mitigation notes (See Sheet No. \_\_\_) Special erosion prevention and sediment control notes (See Sheet No. ) Special notes ☐ Scope of Work Construction project number F. TABULATED QUANTITIES SHEETS Grading quantities block (including balances) Ramp and side drain table Pipe culvert, cross-drains, and endwall table ☐ Box bridges table Box culvert table ROW marker table ☐ Storm drainage tables for catch basins, manholes, junction boxes, etc. Storm drainage pipe tabulation Quantities checked with proposed layout and roadway quantity sheet Guardrail tabulation Base and pavement tabulation

☐ Ditches table

Roadway approaches table (if required)

Construction project number

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G. <u>DETAIL SHEETS</u>
<ul> <li>□ Special details not covered in standards</li> <li>□ Retaining wall layouts</li> <li>□ Interchange geometry</li> <li>□ Special structures for this project specifically</li> <li>□ Intersection geometry and contours</li> <li>□ Construction project number</li> </ul>
H. PROPERTY MAPS
☐ Identify begin/end of project (CONST) (includes project number)
I. PRESENT LAYOUT SHEETS
☐ Identify begin/end of project (CONST) (includes project number) ☐ Add item directed by Environmental Division's "Environmental Letter"
R.O.W. DETAILS SHEETS (if used in plans)
☐ Identify begin/end of project (CONST) (includes project number)
J. PROPOSED LAYOUT SHEETS
<ul> <li>□ Limits of construction</li> <li>□ Limit of paving</li> <li>□ Special notes</li> <li>□ Final guardrail locations</li> <li>□ Signs (if not on separate sheet)</li> <li>□ Construction items for this project (labeled clearly)</li> <li>□ Storm drainage coded for second sheet tabulation</li> <li>□ Add items directed by Environmental Division's "Environmental Letter"</li> <li>□ Identify begin/end of project (CONST) (includes project number)</li> </ul>
K. PROFILE LAYOUT SHEETS
<ul><li>☐ Completed at ROW Phase</li><li>☐ Identify begin/end of project (CONST) (includes project number)</li></ul>
L. <u>DRAINAGE MAP SHEETS</u>
☐ Completed at ROW Phase
M. <u>CULVERT SECTIONS</u>
☐ Completed at ROW Phase

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# N. <u>EPSC PLANS</u>

	<ul> <li>Add/check items directed by Environmental Divisions "Environmental Letter"</li> <li>Special Details</li> <li>Location and details for proposed diversion channels or other methods of isolating stream flow from construction</li> <li>Approximate location of erosion control items</li> <li>Wetland mitigation notes</li> <li>EPSC quantities tabulation block on first EPSC sheet</li> <li>EPSC quantities added to estimated roadway quantities block</li> <li>Environmental Division consulted regarding treatment of haul roads in wetland areas</li> <li>Additional EPSC Special notes on first EPSC sheet</li> </ul>
	Label Wetlands, WWC, streams, and ponds (per Environmental Letter)  Construction project number
Ο.	TRAFFIC CONTROL PLAN
	<ul> <li>Schematic detail for construction signs and placement</li> <li>□ Tabulation block for construction signs, barricades and lights</li> <li>□ Traffic control notes and/or pavement edge drop-off notes</li> <li>□ Lane closure details</li> <li>□ Median cross-over details (including necessary curve data)</li> <li>□ Any necessary portable median barriers, barricades, arrow boards and lights</li> <li>□ Temporary signal details and quantities (as necessary)</li> <li>□ Temporary pavement marking details (as necessary) and quantity</li> <li>□ Stage construction details (as necessary)</li> <li>□ Plan reviewed with Regional Safety and Coordinator or Regional Traffic Engineer (if necessary)</li> <li>□ Plans rechecked for accuracy and safety in all phases</li> <li>□ Construction project number</li> </ul>
	IF THE ROAD IS TO BE CLOSED DURING CONSTRUCTION THE FOLLOWING ITEMS ARE ALSO APPLICABLE:  City and/or county officials notified  Detour routes determined and maintained by State or County/City (include note on plans)  Detour signs installed and maintained by State or County/City (include note on plans)  Haul roads  Map in plan showing detour signing (placement of construction signs, barricades may be included on this map)
Ρ.	PAVEMENT MARKING PLANS AND/ OR SIGNING (if necessary)
	☐ Completed at ROW Phase ☐ Construction project number
Q.	TRAFFIC SIGNAL PLANS (if necessary)
R.	<u>LIGHTING PLANS</u> (if necessary)

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# S. FINAL PREPARATION OF PLANS

Check for or add the construction project number on all construction plan sheets
Make sure estimated grading quantity sheets are clearly legible for printing (See Activity
Check List)
Correct/change data within plans and estimate per TDOT reviewer
Compile final design record for filing
☐ Place engineer's seal and signature on all sheets
☐ Complete Activity Status Sheet and turn job in to Programs Operation Office, Bidding
Section
All plans produced on reproducible Mylar (except roadway cross-sections)
ROW title sheet on bond