

PROJECT REVIEW SUMMARY

Letting Date:
Job No.:
County:
Route:

<input type="checkbox"/>	Plans
<input type="checkbox"/>	BidBook
<input type="checkbox"/>	Roadway JSP
<input type="checkbox"/>	Bridge JSP
<input type="checkbox"/>	Electronic Deliverables
<input type="checkbox"/>	X_Sections

D - 1 2

- _____ 1. Verify project details between the plans, estimate and JSPs.
- _____ 2. R/W Clear? Include special JSP from R/W Liaison.
- _____ 3. R/R Involvement. Add JSP from R/R Project Manager.
- _____ 4. Verify that the Project Impacts are complete and form is signed by PM.
- _____ 5. Note any unusual details on the D-12.
- _____ 6. Funding by others typically will need to have the Notice to Bidder of Third Party Funding OR Third Party Concurrence JSP. Notify BCS Engineer.
- _____ 7. ADA – considered on all projects.
- _____ 8. D-15 - If yes, should be included in the electronic deliverables.
- _____ 9. Proprietary Items - Verify Public Interest Finding letter in eProjects.

PROJECT REVIEW ITEMS

- _____ 1. **Alternate Pavements** (EPG 242). Required when project has:
7,500 SY of continuous paving or 14,000 SY of total project full depth paving
 - _____ A. Surface area of traveled way (D-12)
- _____ 2. **Electronic Deliverables** –
 - _____ A. Required for projects with cross sections or any excavaton (Class A, Class C, Unclassified Excavation or Embankment in Place)
 - _____ B. **Asbestos Survey** – If Asbestos Surveys are found in the electronic deliverables.
 - _____ C. Bridge Info Sheets (Old Plans)
 - _____ D. D-15 - Verify that there is a letter and a list of materials.
- _____ 3. **Mobilization** – Included on every project and only once.
- _____ 4. **Traffic Control** - Each project in combination is required to have its Traffic Contol plans and pay items.

PLANS

All plan sheets shall be **full size plans (size 22 x 34 inches)**

_____ 1. All **file names** must:

- _____ A. Match the sheets numbers
_____ B. Match the abbreviation shown on the Title Sheet

_____ 2. **ALL SHEETS**

- _____ A. Should be numbered consecutively except for Bridges and Cross Sections Sheets.

_____ 3. **TITLE SHEET**

- _____ A. Check **Index of Sheets** for correct sheet numbers.
_____ B. Consultant Plans must have their seal, company logo, contact information & certificate of authority on all sheets.
_____ C. A location sketch is required on all federally funded projects.

_____ 4. **TYPICAL SECTIONS**

- _____ A. Stationing
_____ B. Pavement Design matches Pavement Type Selection Letter.
_____ C. Safety Edge - needs to be on typical.
_____ D. Shoulder – less than 4' can be full depth on interstate and major routes.
_____ E. Asphalt Factors - should be shown on the plans when asphalt is paid by the ton.

_____ 5. **Quantity Sheets**

- _____ A. Compare the pay items to the Quantity sheets. They must match.
_____ B. No Direct Pay items shall not be a major part of the work.
_____ C. 2BS Sheet (Temporary Traffic Control Quantity Sheet) check effective date.

BRIDGE/RETAINING WALL PLANS

- _____ 1. Verify listed on the Title Sheet.

SUMMARY OF QUANTITIES & ESTIMATE

1. Scan for 99 numbers. Make sure that all 99 numbers have a JSP.
2. **201-30.00** – Clearing and Grubbing (Acre) – If less than 1 acre, can use 201-31.00 Lump Sum
3. **202-20.10** – Removal of Improvements (Lump Sum) shall be detailed on quantity sheet.
 - A. Saw cuts for removals are considered incidental to the removal.
 - B. Pavement Repair – do not include the pavement in removal.
4. **203-20.00** – Class C Excavation may be included in quantities for Furnishing/Placing Rock Blanket, Lining, etc. if rock is suitable.
5. **203-55.00** – Embankment in Place quantity should not include Compacting Embankment, all inclusive pay item.
6. **203-60.00** – Compacting Embankment quantity should not include Embankment in Place.

Earthwork Check

Class A will shrink, Class C will swell combine total should equal Embankment in Place
 $(203-10.00)*0.85 + (203-20.00)*1.20 = \text{Embankment in Place}$

7. **206-30.00** – Class 3 Excavation for Utilities, Drop Inlets and Manholes.
 - A. If Class C then check if 206-31.00 Class 3 in Rock should be used.
8. **206-33.00** – Class 4 Excavation for Box Culverts & Small Retaining Walls.
 - A. If Class C then check if 206-33.00 Class 4 in Rock should be used.
9. **207-XX.XX** – Linear Grading – for the drifting of material
 - 207-10.00** – Linear Grading Class 1 a maximum of 200 feet of hauling distance
 - 207-20.00** – Linear Grading Class 2 more than 200 feet of hauling distance
10. **303-06.00** – Furnishing Rock Base Material and **303-06.10A**, Placing Rock Base (18 inch Thick).
11. **304-01.XX** – Type 1 Aggregate Base should be used on minor routes. Ref. Pavement Type Selection letter in the Spec and Estimate folder.
12. **304-05.XX** – Type 5 Aggregate Base should be used on major routes.
13. **40X-XX.XX** – All overlay projects should have pay items by layers of the overlay in tons.
14. **401-99.05** – Optional Pavement – All projects should be bid optional pavement when the full depth continuous paving quantity is less than 7,500 SY of continuous paving or 14,000 SY of full depth paving for one pavement design. Full depth optional bid projects should have asphalt and concrete paid by the SY. Temporary Pavement is classified as Optional Pavement regardless of the quantity or type of pavement. Shoulders should be paid for as A2 shoulders (**401-01.50**) or A3 shoulders (**401-01.51**). Verify that the SY of asphalt pavement is equal to the SY of concrete pavement. Ref. EPG Other Aspects of Pavement Design.
15. **403-04.XX, 502-XX.XX** – Alternate Pavements – All projects should have alternate Pavements when the full depth continuous paving quantity is:
 - A. Greater than 7,500 SY or the total full depth quantity greater than 14,000 SY. Full depth alternate bid projects should have asphalt and concrete paid by the SY.
 - B. Type A2 Shoulders **401-01.50** and **502-13.40** should be put into its own Alternate categories.
 - C. If Type A3 shoulders (**401-01.51**) are used it should be in the roadway items, they will not be included in the LCCA factor; verify SY of asphalt pavement is equal to the SY of concrete pavement.

_____ 16. **409-XX.XX** – Seal Coat projects by SY. (Completion Date September 1st)

Two Way Traffic		
Seal Coat Grade	ADT	Pay Item
C	< 750 and any shoulders	409-40.21
B1 & B2	< 1,700	409-40.11 & 409-40.12
A1	< 3,500	409-40.01
A2	< 8,500	409-40.02

Divided Highways		
Seal Coat Grade	ADT	Pay Item
B1 & B2	< 3,500	409-40.11 & 409-40.12
A1	< 14,000	409-40.01
A2	< 17,000	409-40.02

- _____ 17. **502-13.XX** –New Portland Cement Concrete (15' joints). Widening projects may use old joint spacing (**502-11.XX**).
- _____ 18. **606-XX.XX** – Guardrail & Guard Cable – Should have its own Category/Section.
- _____ 19. **608-60.XX** – Concrete Sidewalks should have **608-10.10** Concrete Curb Ramps.
- _____ 20. **609-60.10A** – Furnishing Type 1 Rock Ditch Liner shall have **609-60.41** Placing Type 1 Rock Ditch Liner.
- _____ 21. **613-10.10** – Pavement Repair - **Plans shall specify a pavement thickness**. Include the following items & detail (station, offset, quantity) on the Quantity Sheets:
- _____ A. **613-10.12** – Subgrade Compaction. Est. @ 10% (20% for Urban) Total Pav't Repair S.Y.
 - _____ B. **613-10.13** – Type 5 or 1 Aggregate. Est. @ 10% (20% for Urban) Total Pav't Repair S.Y.
 - _____ C. **613-10.14** – Vertical Saw Cuts (Full)
 - _____ D. **613-10.15** or **613-10.17** – Dowel Bars, (Dowel Baskets are require in addition to the Dowel Bars if repair length is greater than 10' from existing joint)
 - _____ E. **613-10.18** – Tie Bar (Type L Joint) if repair area is 30' or greater in length
- _____ 22. **613-20.18** – Class A Partial Depth Pavement Repair – For pavement not to be resurfaced or if resurfacing is < 3 inches
- _____ A. **613-20.19** – Removal for Class A Partial Depth Repair
 - _____ B. **613-20.14** – Saw cut for Resealing Joints and Cracks
- _____ 23. **613-30.18** – Class B Partial Depth Pavement Repair – For pavement to be resurfaced or that contains an existing overlay
- _____ A. **613-30.19** – Removal for Class B Partial Depth Repair
 - _____ B. **407-10.05** – Tack Coat
- _____ 24. **615-10.00** – Office for the Engineer. Quantity should be paid per month that the office is required for the project (should be more than 1 month).
- _____ 25. **618-10.00** – Mobilization. Use one per project for project.
- _____ 26. **619-10.00** – Pavement Edge Treatment – For pavement drop-offs.
- _____ 27. **620-51.XX** – Type 2 Preformed Marking Tape should be used on all intersection markings including arrows, lettering, stop bars, crosswalks, etc. (Hash Bars may be paint).
- _____ 28. **620-54.XX** – (Short Term Marking Tape) Use for Traffic Pattern Changes only.
- _____ 29. **620-59.02A & 620-59.03A** – 6" High Build Paint with Type L beads on interstate and major rts.
- _____ 30. **620-60.00C & 620-60.01C** – 4" Waterborne Paint with Type P beads on minor rts.

- _____ 31. **626-10.00A – Shoulder Rumble Strips** for Bituminous and **626-20.00A** for Concrete. Required on major routes with posted speeds of 50 mph or more.
- A. **Alternate Pavements** use Bituminous Shoulder Rumble Strips (**626-10.00A**) for asphalt alternate and Concrete Shoulder Rumble Strips (**626-20.00A**) for concrete alternate.
 - B. **Centerline Rumble Strips** - **626-10.01** for Bituminous and **626-20.01** for Concrete where safety concerns with crossover accidents usually on head-to-head traffic.
- _____ 32. **703-40.41** – (box culverts). Verify Class B1 concrete.
- _____ 33. **805-10.00A** – Cool Season Grasses OR **805-20.00A** – Warm Season Grasses
- _____ 34. **805-50.06** – Mulching quantity = Cool Seeding + Temp Seeding
- _____ 35. **806-10.16** – Sediment Removal. Use when there is any earthwork.
- _____ 36. **99 Numbers** that specifies a name brand, verify JSP for specifications and Public Interest Finding letter in eProjects.

NON - CONTRACTUAL ITEMS & COST

*AASHTOWare Project Preconstruction - mark item as nonbid and combine like Sections (Roadway).

- _____ 1. R/W Markers:
- A. 2" Aluminum Cap with MoDOT R/W Imprint
 - B. 6' White Carsonite Post with MoDOT R/W Sticker
 - C. 24" Survey Pin
 - D. 30" Survey Pin
 - E. Steel Right of Way Marker
- _____ 2. Work by Maintenance or Construction Forces. Get approval from Danica.
- Request letter from the District approving work for project file.
- _____ 3. ITS items

JOB SPECIAL PROVISIONS

- _____ 1. Proofread.
 - A. Scan for 99 numbers. Make sure that all 99 numbers are listed in the estimate.
 - B. Look proprietary Items – 99# that are specified manufacturer. Public Interest Findings letter in eProjects. They are very common on ITS projects.
 - C. When using a standard JSP, include the title of the provision followed by the name of the file (i.e. Notice to Bidders of Third Party Concurrence in Award JSP-98-19). If the content of file is changed, remove the name of the file (i.e. JSP-98-19) from the title.

- _____ 2. Job No., Route, & County in upper right-hand corner of all JSP sheets. Verify its consistent with the plans and estimate.
- _____ 3. Make sure the signature block is correct for electronic seals.
- _____ 4. Don't refer to excess excavation as "waste". This word may refer to Hazardous Waste.

- _____ 5. JSP A. "**General**"
 - A. Federal Aid project use JSP General - **FEDERAL**
 - B. No federal money on the project use JSP General – **STATE**

- _____ 6. JSP B. "**Contract Liquidated Damages**". Adjust the JSP for calendar day requirement on the project. Check the notice to proceed date, Completion date, and the calendar days to make sure they are correct.

- _____ 7. JSP C. "**Work Zone Traffic Management Plan**", always use first paragraph.

- _____ 8. "Utilities" shall be printed as submitted from District. JSP-93-26
- _____ 9. "Project Contact for Contractor/Bidder Questions" JSP-96-05
- _____ 10. "Emergency Provisions and Incident Management" JSP-90-11
- _____ 11. "Supplemental Revisions" for all projects JSP-09-01
- _____ 12. "Liquidated Damages for Winter Months" JSP-04-17
For bridge projects with late Nov. or early Dec. completion dates

- _____ 13. Notice to Bidders of Third Party Concurrence in Award. JSP 98-19