

PLAN REVIEW CHECKLIST - NOTES

3. ESTIMATE SHEET AND GENERAL NOTES – ALL PROJECTS

3.1 Estimate Sheet

- (A) Refer to default notes in Project Scheduling System or Bid Items Application

3.2 General Notes Sheet

3.2.1 General

- (A) The Iowa DNR has lowered the threshold for disturbed area from five acres to one acre effective March 10, 2003. All current projects being designed with disturbed areas over one acre need a Pollution Prevention Plan (PPP).

3.2.2 Specifications Notes

- (A) Examples of supplemental specifications to include if necessary:

"...including Supplemental Specifications for Backfilling and Compaction of Pipe and Reinforced Box Culverts by Flooding"

"...including Supplemental Specifications for Project Management"

Examples of developmental specifications to include if necessary:

"...including Developmental Specifications for High Performance Concrete for Structures."

"...including Developmental Specifications for Structural Concrete (4500 psi (31 MPa) or Greater."

"...including Developmental Specifications for Maintenance Work On Railroad Right-of-Way (Union Pacific Railroad)."

"...including Developmental Specifications for Bridge Deck Over-Depth Repair and Overlay."

"... including Developmental Specification for Partial Depth Bridge Deck Patching."

"...including Developmental Specifications for Mass Concrete – Control of Heat of Hydration."

"...including Developmental Specifications for Floating Silt Curtain."

"...including Developmental Specifications for Structural Concrete Coating."

"...including Developmental Specifications for Modular Expansion Joint Assembly"

Examples of special provisions to include if necessary:

"...including Special Provisions for Fabricated Bearing Assembly."

"...including Special Provisions for Work on Railroad Right Of Way.

- (B) Contact the Bridge Office if it is determined a special provision may be necessary. There are a large number of special provisions already written that may be adaptable to a new project. Follow the Requirements for Preparing and Submitting Special Provisions for State and Local Systems Projects posted on the Specifications Section internet site. Consultants will need to provide an electronic copy of the special provision when turning plans in for 100% unapproved review.

- (C) Include appropriate specifications for Work on Railroad Right of Way if bridge being repaired is over a railroad. Coordinate with Office of Rail Transit and the Specifications Section.

4. SITUATION PLAN

4.1 New Construction

4.1.1 General

- (A) "Top of bridge deck crown 'X' below profile grade"

7. PIER DETAILS - NEW CONSTRUCTION

7.1 General

- (A) "Concrete sealer is to be applied to the top of piers in accordance with article 2403.03, P, 3 of the Standard Specifications."

7.4 Footing

- (A) Batter all exterior pile for a footing at 4:1 if possible. Corner pile should be battered in the direction of the bisector of adjacent footing edges. If pile will interfere at 4:1 batter, try 6:1 batter. If pile will interfere at 6:1 batter, drop batter for that pile giving preference to the pile in an exterior column footing. The battered pile pattern for an individual footing should be symmetric.

8. ABUTMENT DETAILS - NEW CONSTRUCTION

8.2 Stub Abutments

- (A) "Concrete sealer shall be applied to the abutment bridge seat in accordance with article 2403.03, P, 3 of the Standard Specifications. In addition to the requirements of article 2403.03, P, 3, sealer shall be applied to the wash between the bridge seat steps."

9. SUPERSTRUCTURE DETAILS - GENERAL - NEW CONSTRUCTION

9.1 Typical Section

- (A) The following note placed inside of a box may be used: "Slab Area = XX.XX ft² (m²). Slab Area does not include the nominal X in (XX mm) haunch".

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10. SUPERSTRUCTURE DETAILS - CWPG - NEW CONSTRUCTION

10.5 Deflection Diagram

- (A) Dimension from 'chord between abut. bearings' to 'top of web' shown as an individual value, in addition to the component dimensions, at the midpoint and ends of each girder segment (segment is considered end to splice or splice to splice). For example, if a positive camber is being provided, a dimension should be provided with the value being the sum of the 'chord to chord' and the 'chord to top of web' offset. The 'chord to chord' and the 'chord to top of web' offset dimensions would also be shown. For a negative or zero camber, the explicit dimension is generally provided by default. This has been requested by Materials since the camber (offset) is checked at the midpoint and ends of girder segments.

12. DETAILS - REPAIR/OVERLAY PROJECTS

12.3 Backwall Repair/Barrier Rail Footings

- (A) The cost of furnishing and placing subdrain (including excavation), floodable backfill, porous backfill, and subdrain outlet is to be included in the price bid for "Excavation, Class 20. No extra payment will be made."
- (B) "Excavation for end sections shall be backfilled with special backfill."

"The cost of furnishing and placing special backfill is to be included in the price bid for "Excavation, Class 20. No extra payment will be made."