South Carolina
Department of Transportation

INSTRUCTIONAL BULLETIN NO. 2006-7

SUBJECT: Design Field Reviews
EFFECTIVE DATE: July 27, 2006
SUPERSEDES: Instructional Bulletin No. 2005-6, "Design Field Review Title Sheet"
RE: Project Development Process (Rev. 7-18-06)

During the early development of a project, the geometric design is selected and placed on the plans. The project templates are shown on the cross sections providing the footprint of the proposed roadway. Prior to sending the plans to Hydraulic Engineering, a field review will be held to verify the geometry of the new design.

According to the Project Development Process, a Design Field Review will be held to determine if the vertical and horizontal alignment, as indicated on the plans, meets the scope of the project. The review team should closely examine the existing conditions of the project alignment and make modifications as needed. The team will insure that the design indicated will become the final geometric design used on the project. This is when the project is first reviewed for the 13 controlling design criteria.

The review team should be composed of those with specific interest in the geometry of the roadway. A review of the other features of the project will be held at a later time; such as, hydrology and erosion control. The team should include, but is not limited to, representatives from Project Management, District Engineering, Utility Coordination, Right of Way, Environmental and Road Design. It is the responsibility of the Road Design Group to set-up the Design Field Review and lead the team through the project on location.

A revised Design Field Review Title Sheet (copy attached) has been prepared and is named: dfrts5.dgn.

This title sheet should be used for all Design Field Reviews (DFR). Prior to the field review, the DFR plans will be taken to Engineering Reproductions Services (ERS) to be scanned and made available through Project Viewer. When notifying the review team, the Design Group will advise that the plans are available on Project Viewer. Upon returning from the DFR, the Road Design Group will have the marked-up DFR plans scanned by ERS making them available through Project Viewer.

Approved: _____
E. S. Eargle
Road Design Engineer

ESE:afg
Attachment
cc:
Mark C. Lester, Prog. Dev. Engineer West
Charles Smoak, Hydraulic Engineer
Matt Lifsey, Prog. Dev. Engineer East
Mitchell Metts, Bridge Design Engineer
Al Barwick, CRM Manager
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AN EQUAL OPPORTUNITY/
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SCDOT
South Carolina Department of Transportation

DESIGN FIELD REVIEW

_____ COUNTY

RTE./RD. _____

FILE _____ PROJ. _____

FROM: _____ TO: _____

REVIEW OF THE 13 CONTROLLING DESIGN CRITERIA

(ELIMINATE ALL DESIGN EXCEPTIONS WHERE PRACTICAL)

	OK	FURTHER REVIEW NEEDED (Please Check One)
1. DESIGN SPEED (HDM 11) _____	☐	☐
2. HORIZONTAL ALIGNMENT (HDM 11) _____	☐	☐
3. VERTICAL ALIGNMENT (HDM 12) _____	☐	☐
4. VERTICAL CLEARANCE (HDM 19) _____	☐	☐
5. GRADE (HDM 12) _____	☐	☐
6. SUPERELEVATION (HDM 11) _____	☐	☐
7. CROSS SLOPE (HDM 13) _____	☐	☐
8. LANE WIDTH (HDM 13) _____	☐	☐
9. SHOULDER WIDTH (HDM INDEX) _____	☐	☐
10. STOPPING SITE DISTANCE (HDM 10) _____	☐	☐
11. HORIZONTAL CLEARANCE (HDM 11) _____	☐	☐
12. BRIDGE WIDTH (HDM 13) _____	☐	☐
13. STRUCTURAL CAPACITY (HDM 1) _____	☐	☐

REQUESTED TO ATTEND	ORG.	PHONE	VERIFICATION OF ATTENDANCE (INITIALS)

TRAFFIC DATA

_____ ADT _____

_____ ADT _____

TRUCKS _____ %

WITHIN CITY / TOWN LIMITS ?
YES / NO

RAILROAD INVOLVEMENT ?
YES / NO

DESIGN FIELD REVIEW PLANS READY: __/__/__
DESIGN GROUP ____ DESIGN GROUP COORDINATOR ______
CHARGE CODE __ ___ ____ ___ ____ ___
PIN NUMBER _____
DIRECTORY NUMBER SMPSAN3/RDGRP /_____
SURVEY LENGTH ____ MI.
DESIGN FIELD REVIEW PERFORMED __/__/__

RIGHT OF WAY RECOMMENDATIONS:

NEW R/W WIDTH: _____TOTAL SEE PLANS: Y / N
SLOPES OBTAIN PERMISSION: Y / N
SLOPES COVER WITH RIGHT OF WAY: Y / N
CONTROL OF ACCESS Y / N
COMMENTS: _____

DESIGN CRITERIA:

TYPICAL SECTION _____ THRUOUT
_____ STA. _____ TO STA. _____
_____ STA. _____ TO STA. _____

PAVEMENT DESIGN TO BE DETERMINED BY:
OFFICE OF MATERIALS AND RESEARCH
ONLINE CALCULATOR
FIELD REVIEW
(CIRCLE ONE)

DESIGN SPEED: _____MPH
INTERSECTION "THROAT" WIDTH ____FT RADII ____FT

BRIDGE REPLACEMENT:

SKETCH ON THE PLANS THE LOCATION OF THE BRIDGE CONSTRUCTION

BRIDGE ACCESS LINES (GIVE DIMENSIONS WHERE NEEDED)
ADDITIONAL GEOTECHNICAL WORK REQUIRED: Y / N
ROAD TO BE CLOSED OR STAGED
(CIRCLE ONE)

VIDEO/PHOTOS:

WERE VIDEOS TAKEN OF PROJECT? Y / N

WERE PHOTOS TAKEN OF PROJECT? Y / N

WALLS

MARK ON PLANS THE LOCATION OF PROPOSED WALLS

RAILROAD

RAILROAD INVOLVEMENT Y / N

NOTES AND/OR COMMENTS:

_____
_____
_____

THE PURPOSE OF THE DESIGN FIELD REVIEW IS TO DETERMINE IF THE VERTICAL AND HORIZONTAL ALIGNMENT AS INDICATED ON THE PLANS MEETS THE SCOPE OF THE PROJECT. THE REVIEW TEAM SHOULD CLOSELY EXAMINE THE EXISTING CONDITIONS AND MAKE MODIFICATIONS AS NEEDED. THE TEAM WILL INSURE THAT THE DESIGN INDICATED WILL BECOME THE FINAL GEOMETRIC DESIGN USED ON THIS PROJECT.

AustinME
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20-JUL-2006

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