

MEMORANDUM

*If on-site scoping inspection will be held include blue text and delete green text.
If no on-site scoping inspection is needed include green text and delete blue text.*

TO: Tim Bjorneberg, Chief Road Design Engineer

FROM: «Designer», Project Engineer

SUBJECT: Initial Final Scope Summary

DATE: May 30, 2000

RE: «Project_Number» «County» County PCEMS «PCEMS»
«Location»
«Type_of_Work»

Attached is the Initial Final Scope Summary for the above referenced project. This summary is based upon an in-house scoping meeting held on XX and subsequent Region Office and Area Office input. The following people attended the meeting: XX.

Listed below are unresolved project issues:

- The final surfacing type and typical section.
- A final decision on horizontal alignment shifts.
- The limits of Curb & Gutter and Sidewalk in Doland.
- The amount and location of Borrow needs. (Preliminary estimate of XX cubic yards.)
- Will permanent signing be include on this project?
- Will traffic be detoured or maintained on site?

During the in-house meeting it was decided that an on-site Scoping Inspection would not be held for this project. The date for this inspection will be set at a later time. The Final Scope Summary is ready for signature.

If you have any questions, please contact «Designer» in the Office of Road Design.

Attachment

cc: «Region_Engineer»	Bridge Design
«Area_Engineer»	Materials & Surfacing
Region Designer	Planning and Programs
Region Traffic Engineer	Environmental
Region Materials Engineer	Utilities
Road Design Special Squad	ROW
Operations (Norm Humphrey)	R.S.I. (Cliff Reuer)
Larry Weiss	FHWA (NHS or Interstate)

**«Project_Number» PCEMS «PCEMS»
SCOPE INFORMATION**

PROJECT DESCRIPTION microfilm number()

Project Number(s)	«Project_Number»
PCEMS #	«PCEMS»
County(s)	«County»
Location	«Location»
Length	«Miles» mi. / «Kilometers» km
Type of Improvement	«Type_of_Work»
Cost, Fiscal Year & STIP category	«Cost_Million»M, «STIP_Fiscal_Year» & «STIP_Category»
Metric or English	English
Project Coordinator(ES)	«Project_Coordinator»
Other Projects in STIP Within Area	

PROJECT BACKGROUND INFORMATION

Information from Video Log				Information from Underlying Plans	
Posted Speed Limit	30 mph			Typical Inslope	2:1
Passing %				# of grades > 4%	
# of Guardrail Sites				# of grades > 5%	
Traffic Data				# of Horiz Curves at each Design Speed	
1998 ADT:		d:	%	# of Vertical Curves at each Design Speed	
2018 ADT:		T DHV:	%	C&G?	
DHV:		T ADT:	%	# of Box Culverts (Others)	

Information from "1999 Highway Needs and Project Analysis Report"

Attach appropriate Highway Needs and Project Analysis Report page(s) here by the following method.

- Go to U:\pl\web page data\updated versions**needsol.pdf**
- Select **1999**
- Select **Area on Map**
- Select **Highway**

NOTE: **Needsol.pdf** is under development stages. The following routes are available from the [1999 Highway Needs Book on-line](#)

I-90
SD44
US14
SD63
US83
SD20
US281
US212
US85
SD11
US16B
SD50 (MRM 343.00 - MRM 355.00)
SD10 (MRM 296.00 - MRM 321.26)
SD79 (MRM 079.88 - MRM 081.67)
US81
I-229

If you need another highway segment of the Needs Book put into pdf format a request can be made to Terry Erickson, Office of Planning & Programs.

- Go to **View - Fit Width** This must be done prior to copying to make readable both electronically and when printing.
- Go to **Tools - Select Graphics**
- Fence page
- Go to **Edit - Copy**
- Return to this page in scope document and highlight blue/red text
- Go to **Edit - Paste** to include Highway Needs and Project Analysis Report

SCOPE PREVIEW

SHOULDERS	COMMENTS / RECOMMENDATIONS		
	Policy E-2-98 3R Standards	Policy E-3-98 Reconst. Width Stds.	Policy E-4-98 Rehab Grading Stds.
Widening needed?	No	No	No
How much widening needed?	None	None	None

DITCH	COMMENTS / RECOMMENDATIONS
Improvement needed for maintenance reasons? (snow, drainage, etc.)	No
Improvement needed for clear zone reasons? (Policy E-2-98)	No
Improvement needed for steep inslope reasons (steeper than 3:1)?	No

VERTICAL ALIGNMENT	COMMENTS / RECOMMENDATIONS Policy E-2-98 (3R Standards based on Posted Speed)
% and length of project exceeding maximum % grade?	
% and length of project meeting minimum stopping sight distance?	
% and length of project meeting desirable stopping sight distance?	
Signing, entrance/intersection relocation or other mitigation to retain?	None

HORIZONTAL ALIGNMENT	COMMENTS / RECOMMENDATIONS
# of horizontal curves under South Dakota Standards for 65 mph (or present posted speed limit) on non-interstate and under 75 mph on interstate?	
Horizontal curve advisory speed plates adequate?	None Existing
Signing, entrance/intersection relocation or other mitigation to retain?	None

«Project_Number» PCEMS «PCEMS»
INITIAL SCOPE SUMMARY

DESIGN ELEMENTS			
Terrain Characteristics	Level	Max Horizontal Curve	2° 45'
Design Speed	70 mph	Maximum Grade	3.0%
Stopping Sight Distance (K Values)	625-850 ft Crest (290-540) Sag (150-220)	Passing Sight Distance (K Values)	1600-2500 ft Crest (915-2030)

CROSS SECTION ELEMENTS			
Lane Width	2 - 12' Traffic Lanes	Shoulder Width	6'
Cross Slope	2.0%	Superelevation	6.0% Maximum
Ditch Type	Rural Type = Standard Ditch Inslope = 4:1 Depth = 3.5 ft Width = 20 ft Backslope = 5:1		
Median Needs	None Centerline to Centerline = N/A Inslope = N/A Depth = N/A Width = N/A		

GEOMETRIC NEEDS	COMMENTS / RECOMMENDATIONS
Horizontal Curves Below Design Speed	All horizontal curves shall meet design speed
Vertical Curves Below Design Speed	All vertical curves shall meet design speed
Intersection Horizontal Sight Distance Problems	None Existing
Intersection Vertical Sight Distance Problems	None Existing
Grades Steeper than Design Speed	None
Curb & Gutter	None
Parking	None
Sidewalk/Rec. Trail	None
Design Vehicle	WB-62

«Project_Number» PCEMS «PCEMS»
INITIAL SCOPE SUMMARY

ROW NEEDS	COMMENTS / RECOMMENDATIONS
Right of Way Width (signals, lighting, etc.)	150'
Building Relocation	No
Encroachments (signs, buildings, etc.)	Area Office to provide encroachment survey

DRAINAGE NEEDS	COMMENTS / RECOMMENDATIONS
RC Pipe Treatment	Replace
CM Pipe Treatment	Replace
Special Outlets	None needed
Water Overtop Areas	None
Stream Relocation	None
FEMA	No

STRUCTURE NEEDS	COMMENTS / RECOMMENDATIONS
Bridge Treatment	No Existing Bridge
Structural Capacity	No Existing Bridge
Detour (On-site / Off-site)	N/A
Vertical Clearance	N/A
Horizontal Clearance	N/A
RCBC Treatment	No Existing RCBC

«Project_Number» PCEMS «PCEMS»
INITIAL SCOPE SUMMARY

SAFETY NEEDS	COMMENTS / RECOMMENDATIONS
Bridge Rails	No Existing Bridge
Guardrail	No Existing Guardrail
Inslopes	Provide 4:1 inslopes to clearzone
Approach Slopes	Meet current policy: 6:1 w/ pipe 10:1 w/o pipe
Pipe Ends	Provide end sections per current policy
High Hazard Areas (Animal strikes, etc.)	No history of accidents
Mailboxes	Install supports per standard plate
Obstacles Inside Clear Zone	Remove all obstacles within clearzone
Construction Barrier Needs	Region to determine

TRAFFIC NEEDS	COMMENTS / RECOMMENDATIONS
LOS	N/A
Additional Lanes Needed	<input type="checkbox"/> None <input type="checkbox"/> Center Turn Lane <input type="checkbox"/> Truck Climbing <input type="checkbox"/> Acceleration <input type="checkbox"/> Deceleration <input type="checkbox"/> Weaving
Unnecessary Access	None existing
Intersection Treatment	None needed
Roadway Lighting	None needed
Traffic Signal	None needed
Permanent Signing	Include in the plans
Pavement Marking	Include permanent pavement marking in the plans <input type="checkbox"/> N/A <input type="checkbox"/> Paint <input type="checkbox"/> Epoxy Paint <input type="checkbox"/> Tape <input type="checkbox"/> Grooved-In Tape
Frontage Roads	None needed
Construction Detour	<input type="checkbox"/> Region to determine <input type="checkbox"/> Maintain traffic through the project <input type="checkbox"/> On-site detour <input type="checkbox"/> Wet weather detour <input type="checkbox"/> Use Alternate route

«Project_Number» PCEMS «PCEMS»
INITIAL SCOPE SUMMARY

MATERIALS & SURFACING NEEDS	COMMENTS / RECOMMENDATIONS
Undercut Needed	2' (East River)
Material Availability	Salvage and stockpile existing surface
Borrow or Waste	Project should balance
Interim Surfacing	Gravel
Shoulders	<input type="checkbox"/> Gravel <input type="checkbox"/> AC <input type="checkbox"/> PCCP <input type="checkbox"/> Rumble Strips
Final Surfacing	<input type="checkbox"/> ACOV <input type="checkbox"/> MACO <input type="checkbox"/> CIPR <input type="checkbox"/> PIP <input type="checkbox"/> PVR1 <input type="checkbox"/> PVR2 <input type="checkbox"/> GRND <input type="checkbox"/> UNDB <input type="checkbox"/> AOVC <input type="checkbox"/> CSOV <input type="checkbox"/> UBCO <input type="checkbox"/> Reconstruct & Gravel <input type="checkbox"/> Reconstruct & AC <input type="checkbox"/> Reconstruct & PCCP

OTHER NEEDS	COMMENTS / RECOMMENDATIONS
Utilities	<input type="checkbox"/> None <input type="checkbox"/> Power Poles <input type="checkbox"/> Telephone <input type="checkbox"/> Gas <input type="checkbox"/> Water <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Fiber Optic
HARN Point & Benchmark	Determine impact as design proceeds
Future Development	None anticipated
Noise Barriers	None needed
Rest Areas, Info Centers, Scenic Overlooks	None needed
Roadside Development	<input type="checkbox"/> Typical Erosion Control Measures <input type="checkbox"/> Special Erosion Control Measures <input type="checkbox"/> Incorporate trees/wildflowers with revegetation <input type="checkbox"/> Apply enhancement funds to improve Aesthetics
Environmental	<input type="checkbox"/> None <input type="checkbox"/> 4f (Parks, Historical Sites, GPA, etc.) <input type="checkbox"/> Wetlands <input type="checkbox"/> Contaminated Material <input type="checkbox"/> Archaeological Survey <input type="checkbox"/> Cold Water Fishery <input type="checkbox"/> Warm Water Fishery <input type="checkbox"/> Environmental Assessment
Other Agency Coordination	<input type="checkbox"/> None <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Township <input type="checkbox"/> Railroad <input type="checkbox"/> Game, Fish & Parks <input type="checkbox"/> U.S. Corp of Engineers (404 Permit) <input type="checkbox"/> National Park Service <input type="checkbox"/> National Forest Service <input type="checkbox"/> Bureau of Land Management <input type="checkbox"/> Tribal <input type="checkbox"/> Adjoining State

«Project_Number» PCEMS «PCEMS»
INITIAL SCOPE SUMMARY

PROJECT'S DESIGN SCOPE SUMMARY

(summary paragraph resulting from scope process)

PROJECT'S TYPE OF IMPROVEMENT

New construction for a new highway (include E-4-98 project types)

PROJECT'S LOCATION AND LIMITS OF WORK

(include description and begin/end MRM)

RIGHT-OF-WAY AND/OR ENVIRONMENTAL NEEDS

No ROW Needed
No Environmental Needs

SURVEY NEED

Reconstruction Survey Needed

DESIGN EXCEPTION APPROVAL NEEDED? IF SO, WHAT MITIGATION IS BEING DONE? FILL OUT FORM PROVIDED IN 3R POLICY.

No Design Exception Needed

I hereby certify the design meets or exceeds current minimum SDDOT 3R Design Standards.

Date Recommended by:

Date Approved by:

Tim Bjorneberg
Program Engineer, SDDOT

L. L. Weiss, P.E.
State Highway Engineer, SDDOT