

SCOE/SCOD Joint Meeting: Discussion on Priority Issues Notes Sheet

Tuesday, July 18, 2017

Session 1 Discussions: 10:15 to 11 a.m. | Session 2 Discussions: 11 to 11:45 a.m.

Topic #2: Project Development and Management: Merging Design and Environmental Information

This topic involves areas where combining design and environmental information is required for good decision-making.

Please assign one or two members of your table to take general notes throughout the discussion, which could include the following items:

1. Main topics of conversation
2. Questions that emerged
3. Issues of concern, commendation, and mutual interest
4. Points of potential collaboration between SCOD and SCOE
5. Any tangible next steps

What's the goal of these discussions? Notes from all the tables will be collated and presented during the Joint Closing Session on Thursday from 10:15 a.m. to Noon.

MassDOT - early coordination checklist for all consultants - much GIS based, field recon. Forced consultant designers to be more aware - not putting off env. coordination. esp. good for bridge program. Has become baked in - early recognition of issues even if no obvious solutions. (done post-plug)

Missouri - once proj est., then create a request env. services - that group reviews info, then assembles a team for a proj. Done at several points in process to avoid deal breakers late - team composition can change

GA - several touchpoints to avoid reworking designs.

Missouri - staff turnover an issue - esp engineers - having process helps.

NM - endangered species identification. Finding work zones mean rerouting, but reroute was not cleared environmentally (ET comms, or wildlife) so have to bring team back.

CA - what are the impacts of the construction process - [Transit agencies usu. don't have the

Reworking and do-overs - access to do surveys for ROW - not always just design -

CA: Env. participates in constructability review - but env. documentation done much earlier. When info is limited

GA: sets some limits - list a few things that are OK, and what's not

MO: tells contractor up front if a certain construction practice is going to cost more time and is on them and informing the public abt staging, borrow areas.

Balance flexibility for contractor (whoever it might be) and borrow permits.

CA: Training for env. staff on construction practices.

NM: Constructability review (60% design) to include contractors and environmental.

GA: does a review twice. And an on-call consultant for cultural resources after contractor selection - review plans & contr. bid.

Iowa: Waste issues - where contractor dumps waste puts DOT @ risk w/ water act.

*CA: new issues hard. GHG emissions - example - how do you implement new things?

GA: when does a new policy come on line - when pipeline is full.

MO: continual letting, so what is date of effect of new projects.

NASHTO reorg: sustainability across all committees, so how will it be brought together.

'Sustainability' will need guidance to convey to engineers. shld it be a number (target) or an ethic/process.

NASHTO Green Book vis a vis sustainability.

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subjective data sharing changes to plans later
shaping data requirements to meet interpretation of requirements
env. under Project Development at project level.
CAPS criteria & more collaboration/meet. Concurrently meetings

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ScOE Funded positions - F&W, D&W, Caps (permit)
- LP sum, salary, - Get metrics if getting what want. Performance measures

- SHPO - move arch, +50 yr bridges historical, subjective - KYTC
- DOT Env. + SHPO relationships

- Got inventory of historical structures to preserve. to know which ones can be replaced
- using parts of old bridges

- Lack of access to historical, arch, OF/UF databases,
- what allowed + what not to see

Provide Design to Env. via GIS, Projectwise or other means

Iterative Process with R/W + tensions to env. (changes) (further talking)

Revisiting "shelved" projects

How env. can get project delivered - roles & responsibilities

What are measurements + constraints have to meet

Avoid, minimize, mitigate + enhance

- View shed requirements

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1) GETTING RESOURCES INTO ENVIRONMENTAL SOFTWARE -

- challenges with accuracy & completeness
- IS GIS better place to bring in engineer/design for planning purposes / project development
- NDOT (NEB), LOOK @ PRELIMINARY DESIGN BY BRINGING SHAPE FILE INTO GIS.

~~STATE W/~~

2) FRICTION BETWEEN DESIGN/ENV IS IN PLANNING PHASE

- NEED TO UNDERSTAND ENVL COMMITMENTS & COSTS EARLY IN PROCESS - SOME STATES IDENTIFIED POST PLANNING, POST STIP.
- SOME STATES COMPLETE NEPA/ PLANNING PRIOR TO PROGRAMMING - PERHAPS MORE FLEXIBILITY THAN IF IT'S ALREADY PROGRAMMED W/ COST.
- TRYING INTEGRATED DESIGN FOR A LONG TIME - STILL CHALLENGING.
- ENCOURAGE STAKEHOLDERS TO WORK DIRECTLY W/ ~~THE~~ REG. AGENCIES.
- PROGRAM MANAGEMENT @ GROUPS - CAN PROVIDE GOOD SWAPS FOR DEVELOPMENT COSTS WHICH PROVIDES FLEXIBILITY FOR ENVIRONMENTAL CONSIDERATIONS ~~W/~~ ~~THE~~

*

~~ALTERNATIVE~~

- COLORADO - HAS ENVIRONMENTAL SHEETS IN PLAN SET THAT SHOWS HOW TO HANDLE ENVI RESOURCES.
- COLORADO - DEVELOP NOTEBOOK FOR STORMWATER NIGHT NOTEBOOK TO SHARE (CDOT + CONTRACTOR) RESPONSIBILITY TO FOLLOW.
- INDIANA - COMMITMENTS, WRITTEN DOWN BUT SOMETIMES ITS DIFFICULT TO COMMUNICATE + TRACK.
 - VIRGINIA - ENVI COMMITMENT INSPECTORS - CAN SAMPLE ~~RE~~ ~~CONDTN~~ CONDITIONS / COMMITMENTS ON SITE,
- PRE CONSTRUCTION MEETINGS, BRIDGE GAP BETWEEN,
- INDIANA - WORKED W/ RESOURCE AGENCIES TO DEVELOP "CONSTRUCTION READY" LANGUAGE IN PERMITS /
- ~~HOW ARE~~ HOW ARE COMMUNITY COMMITMENTS CLEARANCES REFLECTED FROM PUBLIC MEETINGS

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Ohio, Ew
Crawner Ew

North Carolina, Design

Iowa, Ew

Minnesota, Ew+Design

Louisiana, Ew

Maryland, Design

Iowa DOT - New Proj Mgmt Division

Ohio DOT - Training

- Project Management - Personality Driven
- Kind of training requirement?
- Flexibility to control schedule
- More detailed design prior to completion of NEPA
- MN working with ACEC Compare State & Consultant process
- NC - Multi disciplinary teams Hand off on Project dev.
- * Construction issues - when is it addressed? Traffic Mgmt.
- Telemarketing survey for road on Tuesday

Change routing preference on Google

Mitigation measures on detours

A+B Bid

Open the road earlier.

Special Provisions for emergency ~~iss~~ vehicles

* - Constructability issues

NC - meeting w/ Contractor.

Consultant talking w/ Contractor

Construction engineers to review plans early.

Getting designers exposed to Construction

* Maryland ~~MDOT~~ Stormwater management review
Concept presented at 20% for Dir. of ~~en~~ highway approval
Stormwater part of design
Maryland had delegation of hydrowater
NC - Stormwater part of hydrowater
~~Storm~~ MNDOT - Had a liaison for NPDES, not anymore

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- Using plan sheets to document enviro. commit.
 - some use a plan sheet, others have sep sheet (NEPA doc, contract doc - diff places to put them)
 - Issues with who can add a comm. if added can it be removed, should it be more than just enviro comm?
- Need for prelim engr. report - should it just be part of NEPA doc or stand-alone document
- Examples of project file structure - how to organize to retain/retrieve
- Adv./disadv. of NEPA assignment
- Contractor borrow/waste/stockpile - how do you communicate & coordinate?
 - Pre-certified borrow?
 - Contractor provides all cert.? should DOT be copied on permits?
 - 404 and sect 106 issues
- Definition of final design (60%, CE - 30-60% EA) ; What is the w/c to start NEPA?

SCOD/SCOE COLLABORATION

TN - LACK of ~~COMMUNICATION~~ -

VE NOT BEEN talking to ENV. or Design
Ensure Compliance

Section 7

MD - PM = Environmental Section - have own projects

Project Developments - Depends on size of projects
Env. Agency changes

CA - Consult out 10%

12 Districts - ~~Communication~~ not alot of string down
in the Beginning, with all functional units

~~Designers~~ don't understand impact of change could
trigger major actions - GIS can help
layer - Determine cost of making change
Change control/management

WA - Regions deliver Project PE/PM Environmental GIS
Work bench, Planning Does alot, Environmental
Consideration into planning

CE - schedule cost implication of change

AZ - State agency LEAD initiative - ~~centralized~~ centralized
everything centrally, 7 districts statewide planners
+ urban planners, planners are scoping too

Early FROM design perspective, ESRI - GIS layers
on Web page EPIC sheet overlays for Environmental

ID - 2 tools using for Design/Env. Charter process
Pre-Ship, list of Environmental Deliverables, project
scheduling system

100%

~~100%~~

VE and ...

100%

100%

100%

100%

100%

100%

100%

100%