

Minnesota Department of Transportation

Work Package Creation and Maintenance Process

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1.0 GENERAL INFORMATION

The purpose of this document is to outline the process for P6 work package/template development and maintenance to promote consistency in the creation, release, and communication of P6 work packages and templates.

A work package is a group of activities to generate specific project deliverables for a functional group or work type.

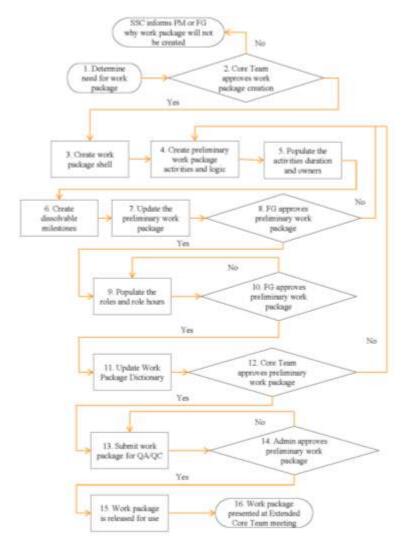
A template is a group of work packages. Templates are a tool used by schedulers to expedite schedule creation and are only developed for frequently used processes. All templates must be approved by the Template Group.

Frequently Asked Questions regarding Work Packages and Templates are summarized in Appendix 6.1.

2.0 PROCESS SUMMARY

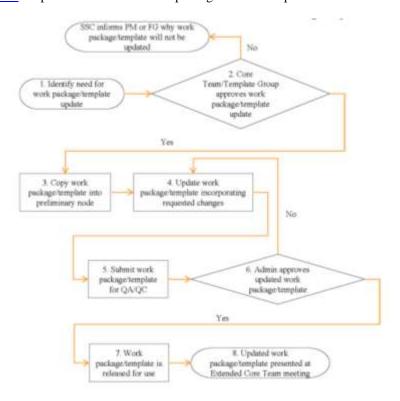
2.1 CREATING A WORK PACKAGE

See <u>Section 3.0</u> for process details and work package creation responsibilities.



2.2 UPDATING A WORK PACKAGE

See Section 5.0 for process details and work package creation responsibilities.



3.0 DEVELOPING WORK PACKAGES

This section details the steps implemented to create a work package.

1. Determine need for work package

PM or Functional Group requests a new work package to the SSC.

The work package must be a node in the <u>Master WBS</u> in P6. If the work package is approved for creation and it is not a node in the Master WBS, the node must be added to the WBS.

If a node is to be created, SSC submits <u>P6 Enterprise Comment and Change Form</u> for consideration with the following information:

Threshold criteria for the work package

A list of related work packages/templates that may be impacted by the creation of the work package

2. Approve work package creation

Core Team will determine if work package needs to go to Template Group for approval. If approved, a scheduler is assigned to develop the work package. If the work package is not approved, SSC will inform the PM or Functional Group why the work package will not be created.

3. Create work package shell

Scheduler requests Admin to create work package shell in Preliminary Templates – Work Packages node (PRELIM.TMPLT or TMPLTWP) of P6.

Scheduler provides a work package name. The work package name must be in conformance with the authoritative WBS. If the authoritative WBS does not have a node for the package, the authoritative WBS will be modified to incorporate the new work package.

Admin will assign an alphanumeric template number using the following naming convention:

TMPLXXXX-P: TMPL indicates that it is a work package, XXXX is a numeric field assigned by Admin, -P indicates that the work package is in the preliminary node and has not gone through the QA/QC process.

4. Create preliminary work package

Scheduler works with functional groups to identify the activities and the logical sequence between them.

A project champion will be assigned from the Functional Group. Scheduler will update the P6 Project Code MnDOT WPkg Champion. If the champion is not identified as a project code value, notify Admin to have that person added to the list. "MnDOT Version Control" notebook topic will also hold the name of the work package champion.

Scheduler will evaluate related work packages that may be impacted by the creation of the work package and submit a P6 Enterprise change request for the required updates.

Identify activities and logic needed to represent the work. Care should be taken that the total number of activities in a work package does not make it too cumbersome for activity owners to update in Team Member.

Activity level constraints, lags, and leads are not allowed in the work packages. All activities, except dissolvable milestones, will have the appropriate code value assigned to "MnDOT Functional Group".

The Activity ID alphanumeric naming convention is:

AAAXXXX: AAA is a prefix based on the WBS name and XXXX is a numeric field.

For example: LAY1040 Prepare Preliminary Geometric Layout & Profile

See Appendix 6.3 for the three letter prefix and associated work packages.

5. Populate the activity duration and owners

Scheduler works with the functional group to determine each activity's duration and owner.

Activities should generally be in the 5-20 day range. However, activities can fall outside of these thresholds as long as there is a clear deliverable represented and there is the appropriate amount of detail to manage the work.

Activity duration on a work package will be based on the most likely number of days the activity would take on an average project. Durations can be scaled during the baselining process.

6. Create dissolvable milestones

Scheduler will determine the relationships that connect to other work packages and templates and identify these relationships in the work package using dissolvable milestones.

Dissolvable milestones will be in a WBS node titled "Dissolvable Milestone (Dissolve after relationship linked & remove node from WBS)".

Dissolvable Milestones will use the following Activity ID naming convention:

ZZZAAAXXX: ZZZ indicates that it is a dissolvable milestone and AAAXXX is the Activity ID the milestone is linking to.

For example: ZZZPLN9000 will tie to the activity Prepare 90% Plans

Dissolvable Milestone Activity Name will match actual activity name in the template/work package to aid in connecting the relationships. The name will be modified to indicate either pred/succ and include relationship type and template/work package in which the activity resides in.

For Example: Succ: Prepare Preliminary Geometric Layout & Profile (FF) (Project Template) indicates that the activity in the work package will have the successor activity LAY1040 Prepare Preliminary Geometric Layout & Profile from the Project Template with a finish-finish relationship.

If the logic is conditional, that information should also be included in the activity name.

For Example: If EDD2 is needed, Succ: Prepare & Submit EDD 2 (FS) (Environmental Due Diligence 2))

Scheduler will link relationships between temporary activities and work package activities.

Each dissolvable milestone will have an open end that will get linked to the permanent activity.

Dissolvable milestones may be duplicated if they represent multiple relationship types. In this case, the Activity ID will be modified to include a "-1" as a suffix. For example, if the same dissolvable milestone is both a predecessor and successor to an activity in the work package, it must be created twice.

7. Update the preliminary work package

Scheduler will review the <u>PPMS Network Activity Manual</u> to compare predecessors, successors, thresholds, work tasks, functional groups for the work package to the equivalent activity in the PPMS Manual.

Schedulers will identify calendars, functional group roles, and budgeted units (Role Hours) for activities. See <u>RD-00-03 Calendar Dictionary</u> for calendar information. See <u>PD-00-08_Role Loading</u> for information on role loading.

Scheduler will obtain <u>RD-00-09 Work Package Dictionary</u> information and include it in the appropriate notebook topics and codes in P6 for the work package.

The following items will be included in the Work Package Dictionary:

WBS Node: Authoritative WBS node for work package **Work Package Name:** Authoritative WBS node name

Work Package ID: 8 digit alpha-numeric code assigned by Admin

Organization and Functional Group: Contact information for the functional group/office that is responsible for this work package.

Threshold Criteria: An explanation of why and when this work package is needed in a project schedule.

Deliverable(s): An explanation of the deliverable(s) produced by this work package. **Notes**: Any additional guidance the responsible person/office would like to provide.

Gantt Chart: A pdf of the Template/Work Package Printout layout.

Activity Owners: Ownership assignment guidance so the appropriate Team Member user is assigned to each activity.

8. Approve preliminary work package

Scheduler will obtain buy-in from the functional group on activities, duration, activity owner and logic.

9. Populate the roles and role hours

Scheduler will work with the functional group to estimate roles and role hours needed on each activity.

Activities in a work package will be role loaded based on estimated hours required to complete the work and appropriate roles from the role tree for a typical project. The estimated hours worked will be added as Budgeted Units and duration is added for the anticipated number of days it will take to complete the activity.

The work package/template may be loaded with generic roles and estimated budget units (hours) if the functional group requests a starting point for finalizing the roles loading for the work package. Admin will update the work package with generic roles and role hours if it is required.

Admin created a master spreadsheet tool to facilitate role loading of P6 schedules. See <u>RD-00-10 Process Used to Develop Role Loaded Templates</u> for additional information on the empirical method used.

- a. Scheduler and Admin will review the work package activities to determine initial roles, role hours and durations using the role loading tool. See <u>RD-00-10 Process Used to Develop Role Loaded Templates.doc</u> and Role Loading an Activity Section in the appendix of <u>PD-00-08 Role Loading</u>.
- b. Scheduler will review the generic roles, role hours and durations with the functional group responsible for the work package/template.
- c. Scheduler will update the roles, role hours and durations in the work package/template. See Role Loading an Activity Section in the appendix of PD-00-08 Role Loading

10. Scheduler will obtain buy-in from the Functional Group on role estimates

Scheduler will insert date of approval under the MnDOT WPKG Functional Group Accepted UDF.

Scheduler populates the Description in the Project Notebook topic with appropriate guidance information.

11. Update Work Package Dictionary

Scheduler submits Work Package Dictionary data (outlined in step 5f) to Admin.

Admin will update the Work Package Dictionary.

12. Obtain Core Team Approval

Scheduler and Functional Group present the completed work package to the Core Team.

Scheduler contacts Admin Team to get on the Core Team agenda.

Scheduler will provide printouts of the Work Package Dictionary information and the following layout reports: MnDOT Work Package Review Gantt Chart (activity layout), MnDOT Work Package Role Hour Review (resource assignments layout), and MnDOT Role Review by Role (Functional group style report).

Scheduler and Functional Group update work package to resolve Core Team comments.

Scheduler will present related work packages that may be impacted by the creation of the work package.

13. Submit work package for quality control/quality assurance (QC/QA) check

Scheduler notifies Admin that work package is ready for quality control check and provides Admin with pdfs of the following layout reports: MnDOT Work Package Review Gantt Chart (activity layout). MnDOT Work Package Role Hour Review (resource assignments layout). See <u>FM-00-02_QC-QA checks for work packages.docx</u> for QC/QA checklist.

Scheduler updates work package to resolve QC Team comments.

Admin will perform QA check.

Scheduler updates work package to resolve QA Team comments.

Scheduler notifies Admin that all comments are resolved and work package is ready to be issued.

14. Admin approves work package

Admin will confirm all changes have been addressed.

Admin updates the MnDOT Version Control notebook topic in P6 that QC and QA have been completed. (See Section 6.2)

15. Work package is released for use

Scheduler coordinates with Admin to update impacted work packages and/or insert revised work package into impacted templates. (See Section 5.0)

Admin will remove the "-P" from the Project ID and move the work package into the Authoritative Work Package Template (AUTH.WRKPKG.TMPLT) node of the EPS.

Admin team will confirm the version control information is acceptable (See Section 6.2) and upload the work package to the authoritative node.

Admin will send an email to Extended Core Team notifying them that a new work package has been released.

16. Work package is presented at Extended Core Team meeting

Admin will schedule presentation of work package at Extended Core Team meeting.

Scheduler and Functional Group will present the approved work package at the Extended Core Team meeting. The work package champion and associated SSC staff will prepare the material to be presented.

4.0 DEVELOPING TEMPLATES

Templates will be developed following the process outlined for work packages in <u>Section 3.0</u> with the following exceptions:

- 1. If the need for a new template is identified, it must receive approval by the P6 Core Team or template group before being developed.
- 2. Scheduler requests Admin to create work package shell in Preliminary Templates templates node (PRELIM.TMPLT, TMPLTPR) of P6
 - a. Admin will assign an alphanumeric template number using the following naming convention:
 - TEMPXXXX-P: TEMP indicates that it is a Template, XXXX is a numeric field assigned by Admin, _P indicates that the work package is in the preliminary node and has not gone through the QA/QC process
- 3. The template champion may have to coordinate the efforts of multiple functional groups.

5.0 UPDATING RELEASED WORK PACKAGES AND TEMPLATES

Changes to work packages will not be made without the approval of the functional group owning the work package.

Changes to templates will not be made without the approval of the P6 Core Team or template group. The process to update a work package or template is:

1. Submit request to updating release work package/template

SSC, PM or functional group will identify which work packages/templates need to be updated and notify Admin.

SSC will create a list of related work packages and templates that will be impacted from the updates made to the work package/template. The list will be given to Core team before the work package/template revisions are presented to Core Team.

SSC downloads the <u>P6 Enterprise Comment and Change Form</u> from the P6 website. See <u>Appendix 6.5</u> for sample form.

SSC will complete the top portion of the form and submits the form to Admin.

Admin will register the comment in the comment log and store the form on the N drive at <u>P6 Comment Log</u> using the following naming convention: YYYY-ZZZZZ.

Where YYYY = is the sequential log number, ZZZZZZ = Description of request.

2. Present the P6 Enterprise Comment and Change Form for consideration

Admin will present the P6 Enterprise Comment and Change Form to the Core Team/P6 Template Group for approval.

Admin will document the resolution on the comment form, resolve the comment in the work package/template and update the comment log information.

Admin will return a completed copy of the P6 Enterprise Comment and Change Form to SSC.

Minor corrections in activity coding and logic ties within the work package/template do not need to be presented to the Core Team/P6 Template Group for approval.

Addition of activities, changes in duration, and dissolvable milestone modifications will be presented to Core Team and/or Template Group.

If approved, a scheduler is assigned to update the work package/template. If work package/template is not approved, SSC will inform PM or Functional Group why the work package/template will not be updated.

3. Copy work package/template into preliminary node (PRELIM.TMPLTPR or PRELIM.TMPLTWP).

Scheduler will request Admin place a copy of work package/template in the preliminary node.

Admin copies the requested work package/template. This retains the MnDOT notebook topics for version control.

Do not cut the work package/template from the authoritative node. The work package/template must remain available for use until the changes have been approved.

Admin re-names Project ID Suffix to –P indicating that the work package/template is being modified, updates responsible manager to "Preliminary Templates", and verifies P6 Project Status is "Inactive"

4. Scheduler updates the work package/template incorporating requested changes

Scheduler makes the necessary changes to the work package/template in the preliminary node in P6.

Scheduler confirms updates made to incorporate the requested changes are acceptable to the person requesting the changes.

Scheduler reviews other work packages that may be impacted by the changes and updates the appropriate work packages/templates.

Scheduler records the changes incorporated and the date the Functional Group approved the changes in MnDOT Version Control notebook topic. (See Section 6.2)

5. Scheduler submits the work package/template to Admin for QC/QA.

Admin completes QA/QC on the revised work package/template. (See Section 6.4 for QA/QC Form)

Scheduler resolves all QC/QA comments and returns work package/template to Admin.

6. Approve updated work package/template

Admin confirms changes have been made and updates the MnDOT Version Control notebook topic.

7. Work package/template is released for use.

When QA is verified as complete, Admin will confirm the version control information is acceptable (See Section 6.2), archive the work package/template in the authoritative node and replace it with the revised work package.

Note a work package/template will be archived each time a new version is authorized. Admin will evaluate the number of archives within P6 and export (XER) the older archived work package/template versions if necessary. The XER files will be maintained on the N Drive at N:\OPMTS Project Management\Project Management Unit\P6 Implementation\Admin Archive\Work Package Archiving.

To archive a work package/template:

Admin will export .xer of "-A" Project ID within Archive node (ADMINARCH, TMPLT-AUTH) to avoid duplication.

- 1. Select "File; Export"
- 2. Export to N: Drive Folder called "Work Package Archive"
- 3. Update Log within Work Package Archive folder on the N drive

Admin moves old authoritative work package/template to archive node (ADMINARCH, TMPLT-AUTH) in P6

- 1. Select "Cut" on Authoritative template EPS node (AUTH.WRKPKG.TMPLT) and "Paste" it into the Work Package Archive (ADMINARCH, TMPLT-AUTH)
- 2. Re-name Project ID Suffix to -A
- 3. Add the date on which it was moved to the archive node to the project name (e.g. 20150109)
- 4. Open the work package and change Responsible Manager to "Admin Archive"

Admin replaces Authoritative work package/template from Preliminary node (PRELIM.TMPLT, TMPLTWP)

- Select "Cut" on finalized work package within Preliminary Templates node (PRELIM.TMPLT, TMPLTWP) and "Paste" the work package into Authoritative node (AUTH.WRKPKG.TMPLT)
- 2. Change Responsible Manager to "Authoritative Templates"

- 3. Add Notebook Topic for MnDOT Version Control on authoritative template as follows: (-Name Date -"Moved from Preliminary into Authoritative Node" (Example: John Smith 1/1/2015 Moved from Preliminary into Authoritative Node))
- 4. Update UDF MnDOT Template/WPkg Version Date to the date the template/work package was moved from the preliminary to the authoritative node.

8. Work package/template is presented at Extended Core Team meeting

Admin will schedule presentation of work package/template at Extended Core Team meeting.

Scheduler and Functional Group will present the approved work package at the Extended Core Team meeting. The work package champion and associated SSC staff will prepare the material to be presented.

6.0 APPENDIX

6.1 WORK PACKAGE AND TEMPLATE FREQUENTLY ASKED QUESTIONS

What is the Difference between a work package and template?

A work package is a group of activities required to produce a deliverable for a project. For example, if a project requires replacing a bridge, the PM will pick the "New Bridge" work package. The P6 schedule is created by combining different work packages.

A template is a combination of frequently used work packages. Templates are used to minimize the amount of time it takes a scheduler to create a new schedule.

How do I find the work packages and templates?

<u>RD-00-09 P6 Work Package Dictionary</u> provides a list of all existing and undeveloped work packages and templates. The Work Package Dictionary provides a description of each work package, when to use the work package, deliverable, and functional group responsible for the work package.

All of the work packages are also shown in the Master Work Breakdown Structure.

What is a Dissolvable Milestone?

A dissolvable milestone is a temporary activity that tells the SSC scheduler how to connect the work package to the templates and other work packages (see <u>PD 10-01 Schedule Creation and Baseline</u> document appendix "Adding a Work Package"). Once the schedule is built, these milestones disappear.

The dissolvable milestones also help Project Managers understand how the work package connects into schedule, without having to be a P6 expert

How do I include the work package in my schedule?

For new projects, fill out the <u>Schedule Initiation form</u> on the <u>Project Management Website</u>. The form allows you to select the work packages you need for your project.

For projects with existing schedules, The Project Manager will work with the functional groups to determine if a new work package needs to be added. The SSC will only update schedules if requested by the Project Manager.

Can I Modify the Templates and Work Packages for a project?

Use the standard templates and work packages as much as possible for consistency, reporting, auditing and working across multiple functional groups.

You can modify templates and work packages to meet project specific needs, but with the following limitations:

- The standard <u>Master Work Breakdown Structure</u> (WBS) cannot be changed or modified without approval
 of the P6 Core team or Template Group, but additional work packages or nodes below the WBS may be
 added.
- Master WBS nodes must not be deleted. Schedulers will use the "hide if empty" checkbox in the group and sort window of P6 if you do not want them to show up on the layouts.
- Do not modify a functional group (District or CO) work package without consulting the owner of the work package.
- Any new activities need to be added by the SSC in accordance with <u>P6 Schedule Creation and Baseline Process.</u>

Can I make my own templates for use?

No, consistent work package and template formatting is required for reporting and auditing. If a new template or work package is required, contact your SSC. The SSC can create and propose new templates and work packages using the process outline in this document to a statewide committee for consideration. Each new template will go through a QC/QA process for consistency with the P6 enterprise system before implementation.

Are the work packages compatible with PPMS type schedules?

Yes, but the dissolvable milestones were not developed for easy incorporation into PPMS type schedules. The PM and SSC will need to determine the appropriate links if using a PPMS schedule.

What if the templates/work packages are wrong?

Contact your SSC immediately. The SSC will provide the comments back to the P6 Administration team so the template and work package can be corrected. The P6 Administration team will work with the functional office and statewide groups to make the corrections following the process in this document.

6.2 VERSION CONTROL

After the modifications to the work package/template are complete, the version date ("MnDOT Template / WPkg Version Date Column) of the work package/template will be updated to include the latest date of the revisions. The

notebook topic 'MnDOT Version Control' must include the scheduler's name responsible for the changes, the date the change was made, and a summary of the modifications.

Version Control Process

Once the work package/template has been approved, the following version control documentation process must be followed.

- 1. Update the MnDOT version control notebook topic.
 - a. Write the name of the work package/template owner and the date that the work package was accepted.
 - b. Write the scheduler's name and date when the work package was built into P6.
 - c. Capture any further modifications in the same convention.
- 2. Update the 'MnDOT Template/ WPkgVersion Date' column to include the most recent date the work package/template has been revised and moved into the authoritative node. *Note: This must match the date in the 'MnDOT Version Control' notebook topic of when the work package was moved from the Preliminary Node to the Authoritative Node.*

6.3 ACTIVITY ID PREFIX

Activity	WBS Node	Work Package	Work Package or Functional G	
ID .	Name	or	Template Name	_
Prefix		Template		
		Project ID		
ACC	Agreement	TEMPMODA	Project Template	Co-op Agreements
	Cooperative	TMPL3056	Cooperative Construction Agreement	
	Construction			
ADA	Americans with	TEMPMAIN	Maintenance Plan	ADA Unit
	Disabilities Act	TEMPMINA	Minor Project Template	
		TEMPMODE	Project Template	
		TMPL1416	ADA Recommendations	
ADM	Admin	TEMPCMBP	Cable Median Barrier Plan	Letting
		TEMPLAND	Landscaping Plan	Coordination
		TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL2000	Process A	
		TMPL2001	Process B	
		TMPL2002	Process B Complex	
		TMPL2003	Prequalification (Tech Proposal)	
		TMPL2004	Process B PODI	
ADR	Agreement	TEMODA	Project Template	Project
	Detour	TMPL3058	Detour Agreement	Management
AIR	Air Quality	TMPL1330	Air Quality Analysis	Ops Env. Model &
	Analysis			Test
ARR	Agreements	TMPL1421	Railroad Bridge Agreement	Modal Planning
	Railroad	TMPL1422	Railroad Flagging Agreement	Div. Freight &
		TMPL1423	Railroad Track Relocation Agreement	Commercial
AUT	Agreements	TEMPMODA	Project Template	OLM R.E. &
	Utility	TMPL1424	Utility Agreement	Policy Dev. Utility
				Agr & Permit
BCL	Barrier Cross	TEMPCMBP	Cable Median Barrier Plan	Districts Design
	Overs			

Activity ID	WBS Node Name	Work Package or	Work Package or Template Name	Functional Group
Prefix		Template Project ID		
BDS	Blowing and Drifting Snow	TMPL1417	Blowing and Drifting Snow Control	Construction & Ops Road Veg. Mgmt
BFR	Bridge Foundation Recommendations	TMPL1500 TMPL1501 TMPL1502 TMPL1508	New Bridge Consultant Bridge Design (Prelim & Final Consultant) Bridge Substructure Widening	OM & RR. Geotech Engineering
BHL	Bridge Hydraulics	TMPL1500 TMPL1501 TMPL1502 TMPL1506	New Bridge Consultant Bridge Design (Prelim & Final Consultant) Consultant Bridge Design (Final Only Consultant) Culvert	Bridge Office Bridge Hydraulics
CAR	Crash Analysis Report	TEMPCMBP	Cable Median Barrier Plan	Districts Traffic Control
CFR	Culvert Foundation Recommendations	TMPL1506	Culvert	OM & RR Geotech Engineering
CGP	Coast Guard Permit	TMPL1354	Section 9 (Coast Guard) Permit	Bridge Office Preliminary Bridge
CRU	Cultural Resource Unit	TEMPCMBPT EMPMODAT MPL1302TMP L1304TMPL13 02C	Cable Median Barrier PlanProject TemplateCultural Resources - Work Package 1 Full Section 106 - All Federal AgenciesCultural Resources - Work Package 2 FHWA FundsCultural Resources - Work Package 3 State Level Review (State Funds Only)	Pre-Construction Cultural Resources
CSP	Contaminated Materials Management Special Provisions	TMPL1319	Contaminated Materials Management Special Provisions	Construction & Ops Cont. Mat. MT
CTX	CATEX	TEMPCMBP TEMPMAIN TEMPMINA TEMPMODA TMPL1334 TMPL1336	Cable Median Barrier Plan Maintenance Plan Minor Project Template Project Template Categorical Exclusion (Non-Programmatic) Categorical Exclusion - Programmatic	Pre-Construction Env. Assessment
CVL	Civil Rights	TEMPCMBP TEMPLAND TEMPMAIN TEMPMINA TEMPMODA TMPL2000 TMPL2001 TMPL2002 TMPL2003 TMPL2004 TMPL2005	Cable Median Barrier Plan Landscaping Plan Maintenance Plan Minor Project Template Project Template Process A Process B Process B Complex Prequalification (Tech Proposal) Process B PODI Design Build	OPM & TS Project Delivery Letting Coordination

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID Prefix	Name	or Template Project ID	Template Name	
DME	Design Memo/ Design Exceptions	TEMPMODA TMPL3026	Project Template Design Memo/Design Exception	OPM & TS Design Support Geometric Des. Sup.
DSB	Design Build	TMPL2005	Design Build	OPM & TS Design Build
EAW	Environmental Assessment Worksheet	TMPL1338	Environmental Assessment (EA)/Environmental Assessment Worksheet (EAW)	Pre-Construction Env. Assessment
EDD	Environmental Due Diligence	TEMPMODA TMPL1306 TMPL1308 TMPL1310	Project Template Environmental Due Diligence 1 Environmental Due Diligence 2 Environmental Due Diligence 3	Construction & Ops Cont. Mat. MT
EIS	Environmental Impact Statement	TMPL1340	Environmental Impact Statement (EIS)	Pre-Construction Env. Assessment
ENM	Early Notification Memo	TEMPCMBP TEMPMAIN TEMPMINA TEMPMODA TMPL3006	Cable Median Barrier Plan Maintenance Plan Minor Project Template Project Template Early Notification Memo	Districts Project Management
ESA	Environmental Site Assessment	TEMPMODA TMPL1312 TMPL1313 TMPL1314	Project Template Environmental Site Assessment (Phase I & II) Acquisition Environmental Site Assessment (Phase I & II) Early Acquisition Environmental Site Assessment (Phase I & II) No Acquisition	Construction & Ops Cont. Mat. MT
EST	Estimating	TEMPCMBPT EMPLANDTE MPMAINTEM PMINATEMP MODATMPL2 000TMPL2001 TMPL2002TM PL2003TMPL2 004TMPL2005	Cable Median Barrier PlanLandscaping PlanMaintenance PlanMinor Project TemplateProject TemplateProcess AProcess BProcess B ComplexPrequalification (Tech Proposal)Process B PODIDesign Build	OPM & TS Project Delivery Eng. Cost & Estimate
FBP	Final Bridge Plans	TMPL1500 TMPL1501 TMPL1502 TMPL1508	New Bridge Consultant Bridge Design (Prelim & Final Consultant) Consultant Bridge Design (Final Only Consultant) Bridge Substructure Widening	Bridge Office Final Bridge
FCP	Final Culvert Plans	TMPL1506	Culvert	Bridge Office Final Bridge
FDB	Final Design Baseline	TEMPSCOP	Scoping Template	Districts Project Management
FDR	Foundation Recommendations	TMPL1414	Foundation Recommendations	OM & RR Geotech Engineering
FRP	Final Repair Plans	TMPL1503 TMPL1504	Bridge Preservation Bridge Redeck	Bridge Office Final Bridge

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID	Name	or	Template Name	Tunctional Group
Prefix	Name	Template	Template Name	
TICHA		Project ID		
GEO	Geotechnical	TEMPCMBP	Cable Median Barrier Plan	OM & RR Geotech
	Report			Engineering
HYD	Hydraulics	TEMPCMBP	Cable Median Barrier Plan	Districts
		TEMPMODA	Project Template	Hydraulics/WRE
		TMPL3038	Hydraulics Design	
HSB	Historic Bridge	TMPL1509	Historic Bridge Study	Bridge Office
	Study			
IAR	Interstate Access	TEMPMODA	Project Template	Districts Traffic
	Request	TMPL3022	Interstate Access Request	
ICE	Interstate	TEMPMODA	Project Template	Districts Traffic
	Control	TMPL3018	Intersection Control Evaluation	
	Evaluation			
LAY	Staff Approved	TEMPMODA	Project Template	Districts Project
	Layout	TMPL3024	Staff Approved Layout	Management
LGA	Lighting	TEMPMINA	Minor Project Template	Districts Lighting
	Agreement	TMPL1376	Lighting Agreement	
LIM	Right of Way	TEMPMODA	Project Template	Districts Design
	Construction	TMPL3028	RW Construction Limits	
LMD	Limits	TEMPON ADDE		OLM D.E. 0
LMR	Land	TEMPCMBPT	Cable Median Barrier PlanLandscaping	OLM R.E. &
	Management	EMPLANDTE	PlanMaintenance PlanMinor Project	Policy Dev Purch & Relocation
	Right of Way	MPMAINTEM	TemplateProject TemplateProcess BProcess	& Relocation
		PMINATEMP MODATMPL2	B ComplexPrequalification (Tech Proposal)Process B PODIDesign Build	
		001TMPL2002	Proposal/Process B PODIDesign Bund	
		TMPL2003TM		
		PL2004TMPL2		
		005		
LMU	Land	TEMPCMBP	Cable Median Barrier Plan	OLM R.E. &
	Management	TEMPLAND	Landscaping Plan	Policy Dev. Utility
	Utilities	TEMPMINA	Minor Project Template	Agr & Permit
		TEMPMODA	Project Template	
		TMPL2001	Process B	
		TMPL2002	Process B Complex	
		TMPL2003	Prequalification (Tech Proposal)	
		TMPL2004	Process B PODI	
		TMPL2005	Design Build	
LSP	Landscape Plan	TEMPLAND	Landscaping Plan	Pre-Construction
				Env. Plan & Design
MDR	Material Design	TEMPMAIN	Maintenance Plan	OM & RR
	Recommendatio	TEMPMODA	Project Template	Pavement
	ns	TMPL3034	Material Design Recommendations (MDR)	Engineering
MNC	Municipal	TEMPMODA	Project Template	Districts Project
	Consent	TMPL3030	Municipal Consent	Management
		TMPL3032	Municipal Consent (Appeal Process)	

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID	Name	or	Template Name	
Prefix	1 (001110	Template	Tompano Time	
		Project ID		
MS_	Milestone	TEMPCMBP	Cable Median Barrier Plan	Districts Project
1.12_	1,1110,000110	TEMPLAND	Landscaping Plan	Management
		TEMPMAIN	Minor Project Template	Management
		TEMPMINA	Maintenance Plan	
		TEMPMODA	Project Template	
		TEMPSCOP	Scoping Template	
		TMPL1600	Fee Acquisition	
		TMPL1610	Acquisition (Metro)	
		TMPL1630	Temporary Right to Construct	
		TMPL3000	Milestones (Design)	
MSY	Mussel Survey	TMPL1349	Mussel Survey	Pre-Construction
MD I	Wiussel Sulvey	1 MIT L1 349	iviussei suivey	Env. Assessment
NAD	No Association	TMPL1317	No Association Determination	Construction &
NAD		TMPL1517	No Association Determination	
NOI	Determination	TMDI 1220	Nystee Assats to	Ops Cont. Mat. MT
NOI	Noise Analysis	TMPL1328	Noise Analysis	Construction &
				Ops Env. Model &
NDD	NIDDEC D'	TEMPOMPET	Calla Madian Danisa Disalanda a la calla	Test
NPP	NPDES Permit	TEMPCMBPT	Cable Median Barrier PlanLandscaping	Districts
		EMPLANDTE	PlanProject TemplateNPDES Stormwater	Hydraulics/WRE
		MPMODATMP	Discharge Permit	
001		L1346		
OPM	Ongoing Project	TEMPCMBP	Cable Median Barrier Plan	Districts Project
	Management	TEMPMAIN	Maintenance Plan	Management
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3002	Project Management	
PBP	Preliminary	TMPL1500	New Bridge	Bridge Office
	Bridge Plans	TMPL1501	Consultant Bridge Design (Prelim & Final	Preliminary Bridge
		TMPL1502	Consultant)	
		TMPL1508	Consultant Bridge Design (Final Only	
			Consultant)	
			Bridge Substructure Widening	
PHU	Phase I Update	TMPL1315	Phase I Update	Construction &
		TMPL1316	Phase II Update	Ops. Cont. Mat.
				MT
PLN	Plan	TEMPCMBP	Cable Median Barrier Plan	Districts Design
		TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3040	Road Plans	
PMM	Project	TEMPCMBP	Cable Median Barrier Plan	Districts Project
	Maintenance	TEMPMAIN	Maintenance Plan	Management
	Plan	TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3002	Project Management	
PND	Stormwater	TEMPMODA	Project Template	Districts
	Design	TMPL3036	Stormwater Treatment Design	Hydraulics/WRE

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID	Name	or	Template Name	
Prefix		Template Project ID		
PRO	Prepare Special TEMPCMBP Cable Median Barrier Plan		Districts Project	
	Provisions	TEMPLAND	Landscaping Plan	Management
		TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3052	Special Provisions	07140 777
PRS	Plan Review/	TEMPCMBPT	Cable Median Barrier PlanLandscaping	OPM & TS Project
	Signatures	EMPLANDTE	PlanMaintenance PlanMinor Project	Delivery Design
		MPMAINTEM	TemplateProject TemplateProcess AProcess	Services
		PMINATEMP	BProcess B ComplexPrequalification (Tech	
		MODATMPL2	Proposal)Process B PODI	
		000TMPL2001 TMPL2002TM		
		PL2003TMPL2		
		004		
PWP	Public Waters	TEMPMODA	Project Template	Districts
	Permit	TMPL1350	DNR Public Waters Permit	Hydraulics/WRE
RAP	Response Action	TMPL1318	Response Action Plans	Construction &
	Plans			Ops Cont. Mat. MT
RDP	Direct Purchase	TMPL1600	Fee Acquisition	OLM R.E. &
		TMPL1610	Acquisition (Metro)	Policy Dev. Purch
		TMPL1630	Temporary Right to Construct	& Relocation
RED	Condemnation	TMPL1600	Fee Acquisition	OLM R.E. &
		TMPL1610	Acquisition (Metro)	Policy Dev.
RFR	Request &	TEMPCMBP	Cable Median Barrier Plan	Construction &
	Obtain Files	TEMPMINA	Minor Project Template	Ops Cont. Mat. MT
	From Regulator	TMPL1305	Regulatory File Review	
RHB	Rehabilitation	TMPL1503	Bridge Preservation	Bridge Office
		TMPL1504	Bridge Redeck	Bridge
DMA	D 1 . 1	TMPL1508	Bridge Substructure Widening	Construction
RMA	Regulated	TMPL1326	Regulated Materials Buildings	Construction &
	Materials			Ops Reg. Mat. MT
RMT	Buildings	TMPL1326	December of Matarials Buildings	Construction &
KWH	Regulated Materials	TMPL1326	Regulated Materials Buildings Regulated Materials Bridge	Ops Reg. Mat. MT
RPR	Receive and	TMPL1600	Fee Acquisition	OLM R.E. &
KrK	Distribute Right	TMPL1630	Temporary Right to Construct	Policy Dev.
	of Way Package	TMPL1640	Commissioner's Orders	Folicy Dev.
	or way rackage	TWII LTO40	Commissioner's Orders	
RRL	Relocation	TMPL1650	Relocation	Districts Right of
				Way
RTT	Right of Way	TMPL1600	Fee Acquisition	Districts Right of
	Titles	TMPL1610	Acquisition (Metro)	Way
		TMPL1630	Temporary Right to Construct	
RVL	Right of Way	TMPL1600TM	Fee AcquisitionAcquisition	OLM R.E & Policy
	Valuations	PL1610TMPL1	(Metro)Temporary Right to Construct	Dev. Appraisal
		630		Mgmt
RWP	Right of Way	TMPL1600	Fee Acquisition	Districts Right of
	Package	TMPL1610	Acquisition (Metro)	Way
		TMPL1630	Temporary Right to Construct	
		TMPL1640	Commissioner's Orders	

Activity ID Prefix	WBS Node Name	Work Package or Template Project ID	Work Package or Template Name	Functional Group
SAT	Signal Agreement	TEMPMINA TMPL1377	Minor Project Template Signal Agreement	Districts Signals
SAW	Environmental Assessment Worksheet	TMPL1332	Environmental Assessment Worksheet (EAW) State	Pre-Construction Env. Assessment
SDE	Surveys Design	TEMPCMBP TEMPLAND TEMPMAIN TEMPMINA TEMPMODA TMPL3014	Cable Median Barrier Plan Landscaping Plan Maintenance Plan Minor Project Template Project Template Design Surveys	Districts Surveys
SDL	Surveys District Land	TEMPMODA TMPL3012	Project Template District Land Surveys	Districts Surveys
SFF	Section 4 F	TMPL1419	Section 4(f) Coordination	Districts Project Management
SGC	Surveys Geodetic Control	TMPL1400	Geodetic Control Surveys	OLM Survey & Mapping Geodetic Unit
SGN	Signing Plan	TEMPCMBP TEMPMAIN TEMPMINA TEMPMODA TMPL1339	Cable Median Barrier Plan Maintenance Plan Minor Project Template Project Template Signing Plan	Districts Signing
SPB	Surveys Photogrammetric Basemap	TMPL1402	Photogrammetric Basemap	OLM Survey & Mapping Photogrammetric
SPC	Surveys Project Control	TMPL1401	Project Control Surveys	Districts Surveys
SPS	Special Provisions	TEMPCMBP TEMPLAND TEMPMAIN TEMPMINA TEMPMODA TMPL2000 TMPL2001 TMPL2002 TMPL2003 TMPL2004	Cable Median Barrier Plan Landscaping Plan Maintenance Plan Minor Project Template Project Template Process A Process B Process B Complex Prequalification (Tech Proposal) Process B PODI	OPM & TS Project Delivery Special Provisions
SSF	Section 6(f)	TMPL1420	Section 6(f) Coordination	Districts Project Management
STR	Structures	TMPL1500 TMPL1501 TMPL1502 TMPL1506	New Bridge Consultant Bridge Design (Prelim & Final Consultant) Consultant Bridge Design (Final Only Consultant) Culvert	Bridge Office Preliminary Bridge
SUE	Subsurface Utility Engineering	TMPL1379	Subsurface Utility Engineering (SUE)	Districts District Utilities

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID .	Name	or	Template Name	•
Prefix		Template		
		Project ID		
SUR	Survey Request	TEMPCMBP	Cable Median Barrier Plan	Districts Project
		TEMPMAIN	Maintenance Plan	Management
		TEMPMINA	Minor Project Template	C
		TEMPMODA	Project Template	
		TMPL3010	Surveys	
TCP	Traffic Control	TEMPCMBP	Cable Median Barrier Plan	Districts Traffic
	Plan	TEMPLAND	Landscaping Plan	Control
		TEMPMAIN	Maintenance Plan	
		TEMPMODA	Project Template	
		TMPL3044	Traffic Control/ Detour/ Staging Plan	
TES	Threatened &	TEMPMODA	Project Template	Pre-Construction
	Endangered	TMPL1370	Section 7 Determination [Threatened &	Env. Assessment
	Species	TMPL1701	Endangered Species] - No Effect	
		TMPL1702	Section 7 Determination [Threatened &	
			Endangered Species] - May Affect	
			Section 7 Determination [Threatened &	
			Endangered Species] - Formal Consultation	
TFC	Traffic Counts	TMPL1375	Traffic Counts	Districts Traffic
TLT	Traffic Lighting	TEMPMAIN	Maintenance Plan	Districts Lighting
	Plan	TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL1335	Lighting Plan	
TMP	Transportation	TEMPCMBP	Cable Median Barrier Plan	Districts Project
	Management	TEMPLAND	Landscaping Plan	Management
	Plan	TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3020	Transportation Management Plan (TMP)	
TMS	Traffic	TEMPMAIN	Maintenance Plan	Districts Traffic
	Monitoring	TEMPMINA	Minor Project Template	Management
	System	TEMPMODA	Project Template	
		TMPL3048	TMS Plan	
TPM	Transportation	TEMPMODA	Project Template	Districts Traffic
	Pavement	TMPL3046	Pavement Marking Plan	
	Marking plan			
TRF	Traffic Forecasts	TEMPMODAT	Project TemplateTraffic Forecasts	Modal Planning
		MPL3016		Div. Transportation
TSG	Transportation	TEMPMAIN	Maintenance Plan	Districts Signals
	Signal Plan	TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL1351	Signal Plan	
TTT	Time and Traffic	TEMPCMBP	Cable Median Barrier Plan	Districts
		TEMPMAIN	Maintenance Plan	Construction
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3050	Time and Traffic	

Activity	WBS Node	Work Package	Work Package or	Functional Group
ID	Name	or	Template Name	
Prefix		Template		
		Project ID		
TUR	Turn in	TEMPCMBP	Cable Median Barrier Plan	Districts Project
		TEMPLAND	Landscaping Plan	Management
		TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL3054	Project Turn In	
UTI	Utility	TEMPCMBP	Cable Median Barrier Plan	Districts District
	Information	TEMPLAND	Landscaping Plan	Utilities
	Meetings	TEMPMAIN	Maintenance Plan	
		TEMPMINA	Minor Project Template	
		TEMPMODA	Project Template	
		TMPL1425	Utility Coordination	
VEA	Value	TMPL1407	Value Engineering	OPM & TS Design
	Engineering			Support Value Eng.
				Unit
VGT	Vegetation	TMPL1368	Vegetation Review	Construction &
	Review			Ops Road Veg.
				Mgmt
VIS	Visual Impact	TMPL1409	Visual Impact Assessment	Pre-Construction
	Assessment			Env. Plan & Design
VQM	Visual Quality	TMPL1408	Visual Quality Management Plan	Pre-Construction
	Management			Env. Plan & Design
WDP	Watershed	TEMPCMBP	Cable Median Barrier Plan	Districts
	District Permit	TEMPLAND	Landscaping Plan	Hydraulics/WRE
		TEMPMODA	Project Template	
		TMPL1352	Watershed District Permit	
WRE	Water Resource	TEMPMODA	Project Template	Districts
	Engineering	TMPL3042	Hydraulics/ WRE Plans	Hydraulics/WRE
	Plans			
WTL	Wetlands	TEMPMAIN	Maintenance Plan	Districts
	Delineate	TEMPMODA	Project Template	Hydraulics/WRE
		TMPL1348	Wetland Delineations (Metro)	
		TMPL3008	Wetland Delineations	
WTP	Wetland/WCA	TEMPMODAT	Project TemplateWetland/WCA & Aquatic	Districts
	& Aquatic	TMPL1355	Resources (404/401/Section 10)	Hydraulics/WRE
	Resources			

6.4 QA/QC FORM

This form is available in Word Format at FM-00-02 QC-QA checks for work packages.docx

Work Package ID/Name:	QCom	reficted by:		
Work Package preparer	QA zm	spleted by		
QC Checks				
2000 (1800 M				
Description 3336	ACTIVITIES and		Notes	
WTCS consumence	CHARLEST SHEET	tonio.		
Activity ID's have appropriate prefix				
Activity ID index follows besix order of activities and increase by 10				
Autority Description has crough detail (VOD) Number of activities have been monimized (Are the activities tied to				
Number of activities have been minimized (Are the activities tied to deliverables or handoffs? If not, out they be consolidated?)				
No constraints	_	_		
Appropriate oxiredies				
Sandroad group coding complete				
tales enigned				
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No liage/leads No open ends				
	SETTINGS			
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Drive Activity Dates see seichecked				
Duration Type on Task Dependent activities in Fined Duration and				
Units Time Page	OLVARLE MILES	DOWNER.		
WHS Node name "Disselvable Milestones (Disselve after relationship	MACABLE MILES	IMSIS.	T	
inted and remove from WHI)	4			
Activity Type: Start or Finish milestone				
Activity ID: "ZZZ" plus the actual Activity ID of activity to be listed.				
Activity Names [Any needed conditional statement] "Pred for "State."				
[Autivity to link] [Relationship Type] [Wask Puckage]	_			
logic Logic matches the logic in activity name. Logic Coeffee activities to be linked exist in the project template in	_	_		
appropriate work puckage				
Constrable Milestones added to other work packages that are impacted				
7. 10 10 10 10 10 10 10 10 10 10 10 10 10	GUBLANCE		- 1	
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FM-00-02_OC-QA form for work package release Updated 20140527 Description Work Package Distoracy Entry: Contact, Defending, Threshold Critic Distoracy Distoracy Entry: Contact, Defending, Distoracy Entry: Contact, Description assignment gualance.	GUBANCE solventi Monet, OCC Date Checked			
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FM-00-02_OC-QA form for work package release Updated 20140527 Description North Politors Distoracy Solvy Contact, Defortion, Threshold Crass North Politors Distoracy Solvy Contact, Defortion, Threshold Crass North Politors Distoracy Appendix Contact, Defortion, Threshold Crass North Politors Distoracy Appendix Contact, Defortion, North Politors Distoracy Appendix Contact, Description North Solvey Solvey Advanced and Appendix distor. Distoracy Appendix Appendix Contact Politors Complete in distoracy in proteined confern that politors of solvey and solvey on an experience for sale normal	GUBLANCE EDBRECH Checked A.			
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6.5 P6 ENTERPRISE COMMENT AND CHANGE FORM

This form is available in Word Format at FM-00-04_P6 Enterprise Comment and Change Form.docx



We all have a stake in $A^{\infty}B$

P6 Enterprise Comment and Change Form

Revised: August 11, 2014

Date Submitted:	Category:	Affected Item:
11/17/2014	general	Click here to enter text
Comment or Change	Click here to enter name	Click here to enter email
Request Originator Info:		
SSC Coordinator:		Date Sent to Core Team: Click for date
Comment or Change Reque	est:	
The information below will	l ha completed by the Doop	and an
Comment Log Number:	Enter log number	Response Date: Click to enter date.
Comment Responder	i i	
Info:		
	Click to enter name	Email: Click to enter email
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