

## Chapter 2

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## Chapter 2

# Sequence of Plans Preparation

### 2.1 General

The set of plans depicting in detail the desired construction work is known as the "Contract Plans Set". This set consists of all sheets pertaining to roadway design (Roadway Plans), and other component plans. The other component plans are comprised of:

1. Signing and Pavement Marking Plans
2. Signalization Plans
3. Intelligent Transportation Systems (ITS) Plans
4. Lighting Plans
5. Landscape Plans
6. Architectural Plans
7. Structures Plans

All plan details shall be included in the Roadway Plans or one of the component plans listed above. Components other than those listed above shall not be used unless approved by the State Roadway Design Engineer. Such approval should be requested prior to the Phase II submittal.

Utility Joint Participation Agreement Plans have a separate Financial Project ID and are placed in the back of the contract plans set.

The contract plans set should be prepared systematically, undergoing phases of review and revision to ensure technically correct and clear plans.

If the plans are structures plans and there is no work on the approach roadway, the structures plans become the lead project. Any other sheets incidental to the project typically found within the roadway plans or other component plans (i.e., traffic control plans, signing and marking, etc.), may be included in the structures plans and numbered consecutively in accordance with the **Structures Manual, Volume 2 – Structures Detailing Manual**.

## 2.2 Data Collection and Presentation

### 2.2.1 Type of Project

The type and amount of data required for each project depends on the project. For new construction and reconstruction projects which have had a Project Development and Environment (PD&E) phase the data to be used for plans preparation could include the following:

1. Preliminary Engineering Report
2. Project Scope
3. Project schedule
4. Field survey and/or CADD files (including existing features such as topography, ground elevations, drainage structures, and right of way)
5. R/W requirements
6. Soils information
7. Commitments for environmental permits or mitigation
8. Typical Section Package
9. Traffic Data
10. Pedestrian and bicycle considerations
11. Structural design requirements
12. Commitments to local government(s)

For projects without the PD&E phase, such as RRR or Safety projects, some of the items listed will not be required. Regardless of type, all projects should begin with a field review to determine other requirements such as additional survey needs, utility information, etc.

Additional information can be found in **Chapters 13-16 of Volume 1**. These chapters contain a comprehensive discussion of the critical issues and major activities for the design process, from initial to final engineering.

## **2.2.2 Presentation of Existing Data**

CADD files generated from the field survey will contain existing topography and other characteristics of the project site. These also include the existing utilities and drainage structures within the limits of the project.

All data pertaining to topography, horizontal location of existing utilities and drainage structures shall be shown on the plan portion of the appropriate sheets (whether they are plan view only, or plan-profile).

## **2.2.3 Proposed Typical Section**

Typical sections show the cross sectional design elements of a roadway. In addition to the Typical Section Sheet, certain elements of the typical section are shown on various other plan sheets, such as the Plan-Profile Sheets and Cross Sections. The various chapters for individual plan sheets address the specific requirements for displaying data (including typical section elements) on those sheets.

## **2.2.4 Geometrics**

The Engineer of Record (EOR) sets the horizontal and vertical geometrics for a project and develops or supervises development of the CADD files used in the production of various plans sheets.

Horizontal geometrics include the baseline survey/centerline construction with bearings, curve data, angles or bearings at street intersections, pavement widths, taper lengths, left turn lanes, and other geometric elements. These elements are plotted on the plan portion of the plan-profile sheets, as well as other appropriate plan sheets.

Vertical geometrics show the vertical curves and grades of the roadway along the profile grade line. On municipal projects back-of-sidewalk profiles are developed to provide a vertical alignment which addresses drainage requirements and harmonizes connections to adjacent properties. The back-of-sidewalk profiles may be included in the roadway plans as directed by the district.

On all projects which include the development of a vertical alignment the existing ground line along the baseline of survey and the proposed profile grade line shall be plotted on the profile portion of appropriate sheets in the roadway or structures plans.

## 2.2.5 Cross Sections

Information required for plotting existing cross sections is obtained from survey data and CADD files. These data, along with existing utilities and proposed templates, are shown on the cross sections. Refer to **Chapter 18** of this volume for additional information.

## 2.3 Phase Submittals

### 2.3.1 General

Requirements relating to the *design process* for various submittals are given in **Chapter 16, Volume 1** of this manual. Refer to that chapter for additional guidance in preparing submittals for review by the Department.

For bridge submittal requirements see **Chapter 26, Volume 1**.

### 2.3.2 Phases

The remainder of this chapter outlines, in detail, the sequence for contract plans preparation and assembly, as well as the information required to be presented on the various plan sheets which are included in design phase submittals.

As stated in **Section 16.4** of **Volume 1**..."The number of submittals and phase reviews shall be determined on a project-by-project basis and shall be defined in the scope. Submittals allow functional areas to review the development of the project as contained in the scope."

Standard submittal phases are as follows:

#### SUBMITTAL PHASES

- Phase I
- Phase II
- Phase III
- Phase IV

Minor projects should typically have two phase reviews.

**Figure 2.1** summarizes the plans sheet status for each submittal. No phase is complete until all review comments have been resolved and documented.

The technical accuracy required for the design is the responsibility of the Engineer of Record. Prior to submitting the plans for a formal FDOT Phase review, the design organization (in-house or consultant) shall conduct a review to ensure technically correct and complete plans. Any revisions or corrections noted during the review shall be incorporated into the plans before submittal for the formal Phase review.

When deemed necessary by the Engineer of Record, or as requested by the district, phase submittals may include an additional plan sheet titled "Notes for Reviewers." This sheet is placed as the second sheet in the submittal package. It contains information pertinent to design criteria and special project requirements, as well as other details or notes which call the reviewer's attention to issues and features unique to the project design. The sheet is to be used only in the review process and is not included in the final plans.

**Figure 2.1 Summary of Phase Submittals**

ITEM	PHASE	PHASE*	PHASE	PHASE
	I	II	III	IV
Key Sheet	P	P	C	F
Summary of Pay Items		P	C	F
Drainage Map	P	P	C	F
Interchange Drainage Map	P	P	C	F
Typical Section	P	C	C	F
Summary of Quantities			C	F
Summary of Drainage Structures			C	F
Optional Materials Tabulation		P	C	F
Project Layout	P	C	C	F
Roadway Plan-Profile	P	P	C	F
Special Profile	P	P	C	F
Back-of-Sidewalk Profile	P	C	C	F
Interchange Layout	P	P	C	F
Ramp Terminal Details		P	C	F
Intersection Layout/Detail	P	P	C	F
Drainage Structures		P	C	F
Three-Sided/Box Culvert Details			C	F
Lateral Ditch Plan-Profile		P	C	F
Lateral Ditch Cross Section		P	C	F
Retention/Detention Ponds		P	C	F
Cross Section Pattern		P	C	F
Roadway Soil Survey		P	C	F
Cross Sections	P	P	C	F
Stormwater Pollution Prevention Plan		P	C	F
Traffic Control Plans	P	P	C	F
Utility Adjustment		P	C	F
Selective Clearing and Grubbing		P	C	F
Developmental Design Standards		C	C	F
Mitigation Plans		P	C	F
Miscellaneous Structures Plans		P	C	F
Signing and Pavement Marking Plans		P	C	F
Signalization Plans		P	C	F
Intelligent Transportation System (ITS) Plans		P	C	F
Lighting Plans		P	C	F
Landscape Plans	P	P	C	F
Utility Joint Participation Agreement Plans			C	F
Computation Book			C	F
Contract Time			P	F

**Status Key:**

- P - Preliminary
- C - Complete but subject to change
- F - Final

\* Projects which have a structures plans component are required to submit the latest set of structures plans with the Phase II roadway submittal.

## 2.3.2.1 Requirements for Phase I Submittal

Unless otherwise directed by the district, the following elements are required for a Phase I set of plans.

### **KEY SHEET**

Location Map w/ location of project on map  
All applicable Financial Project ID's  
(Federal Funds) notation, if applicable  
Exceptions & Equations  
County Name  
State Road Number  
Length of project box  
North arrow and scale  
Approval signature lines  
Railroad crossing (if applicable)  
Revision box  
Governing Standards & Specifications dates  
Project Manager's Name  
Begin & end project station and begin mile post  
Begin & end bridge stations  
Consultant's name, address, contract number,  
Certificate of Authorization number and vendor  
number (if applicable)

### **DRAINAGE MAP - PLAN VIEW**

North arrow and scale  
Drainage divides and ground elevations  
Drainage areas and flow direction arrows  
Equations  
High water information as required  
Preliminary horizontal alignment  
Section, township, range lines  
Street names  
Begin & end stations of project, bridge, bridge  
culverts & exceptions  
Existing structures & pipes with relevant  
information

State, Federal, county highway numbers (as  
appropriate)

### **DRAINAGE MAP - PROFILE VIEW**

Preliminary profile grade & existing ground line  
Horizontal & vertical scale  
Begin & end stations of project, bridges, bridge  
culverts & exceptions  
Equations

### **INTERCHANGE DRAINAGE MAP**

North arrow and scale  
Stationing along baselines  
Ramp baselines with nomenclature  
Begin and end bridge stationing  
Preliminary interchange configuration  
R/W lines  
Preliminary interchange drainage with drainage  
areas and flow direction arrows

### **TYPICAL SECTIONS**

Mainline and crossroad typicals  
R/W lines  
Special details (bifurcated sections, high fills,  
etc.)  
Traffic data

### **PROJECT LAYOUT / Reference Points**

Plan-profile sheet sequence (mainline and  
crossroads)  
Reference points (if layout sheet is required)

### **PLAN AND PROFILE - PLAN VIEW**

North arrow and scale  
Baseline of survey, equations  
Curve data (including superelevation)  
Existing topography including utilities  
Preliminary horizontal geometrics/dimensions  
Existing & proposed R/W lines (if available)  
Centerline of construction (if different from the baseline of survey)  
Begin and end stations for the project, bridges, bridge culverts and exceptions  
Reference points (if project layout sheet not included in plans set)

### **PLAN AND PROFILE - PROFILE VIEW**

Scale  
Appropriate existing utilities  
Bench mark information  
Preliminary profile grade line  
Equations  
Existing ground line with elevations at each end of sheet  
Begin and End Stations for the Project, bridges, bridge culverts and exceptions.

### **SPECIAL PROFILE**

Scale  
Ramp profile worksheet including nose sections  
Existing ground line of intersections  
Preliminary grade line of intersections  
Preliminary curb return profiles, if applicable

### **BACK-OF-SIDEWALK PROFILE (Worksheet)**

Scale  
Begin and end project stations  
Begin and end sidewalk stations  
Cross-street locations and elevations  
Drainage flow direction arrows  
Mainline equations  
Existing driveway locations and details

Superelevation details  
Back-of-sidewalk profile grades and vertical curve information  
Building floor elevations with offset distance left and right  
Gradeline notation: Specifically the numeric difference relative to roadway profile gradeline

### **INTERCHANGE DETAIL**

North arrow and scale  
Schematic of traffic flow and volumes  
Proposed bridge limits  
R/W lines  
Preliminary configuration and geometrics  
Quadrant Identification  
Ramp Labels

### **INTERSECTION LAYOUT**

North arrow and scale  
Existing topography (if applicable)  
Proposed R/W limits  
Length of turn lanes  
Taper lengths  
Existing Utilities  
Geometric dimensions (radii, offsets, widths)

### **CROSS SECTIONS\***

Scale  
Existing ground line  
Existing survey baseline elevations  
Station numbers  
Baseline of survey labeled  
Existing utilities  
Proposed template with profile grade elevations along mainline and cross-streets as necessary

### **TRAFFIC CONTROL PLANS**

Project specific  
Other worksheets as necessary to convey concept and scope.

### **LANDSCAPE PLANS**

Conceptual landscape plan

\*May require accompanying cross section pattern sheet

## 2.3.2.2 Requirements for Phase II Submittal

Unless otherwise directed by the district, the following elements are required for a Phase II set of plans.

### KEY SHEET

Index of sheets  
Contract plans and component plans list

### SUMMARY OF PAY ITEMS

Item numbers with descriptions (on 8 ½" x 11" paper until the project proposal has been created)

### DRAINAGE MAP - PLAN VIEW

Proposed structures with structure numbers  
Proposed storm drain pipes  
Flow arrows along proposed ditches  
Retention/Detention ponds, pond number and area size  
Cross drains with pipe sizes and structure numbers  
Bridges/bridge culverts with begin and end stations  
Flood data (if applicable)

### DRAINAGE MAP - PROFILE VIEW

Ditch gradients including DPIs  
Final roadway profile grade line  
Mainline storm drain pipes  
Mainline flow line elevations  
Mainline structures with structure numbers and pipes  
Bridge, Bridge Culvert  
Cross drains with pipe sizes, structure numbers and flow line elevation

### INTERCHANGE DRAINAGE MAP

Final geometrics including PC and PT  
Proposed structures with structure numbers  
Proposed storm drain pipes  
Special ditches with DPI and elevation

### TYPICAL SECTIONS

Pavement Design

### OPTIONAL MATERIALS TABULATION

Material type  
Structure number station and description  
Durability, cover requirements  
Optional culvert material application  
Culvert service life estimator  
Design service life

### PROJECT LAYOUT

Complete

### PLAN AND PROFILE - PLAN VIEW

Curb return numbers, station ties and elevations  
Proposed drainage structures with structure no.  
Proposed R/W lines  
Existing utilities  
Proposed side drain pipe requirements (including size) for access and intersections  
Final geometrics and dimensions including radii, station pluses, offsets, widths, taper/transition lengths, curve data  
General notes (if project layout sheet not included)  
Flood data if not shown elsewhere  
Limits of wetlands

### PLAN AND PROFILE - PROFILE VIEW

Final profile grades and vertical curve data  
Mainline storm drain pipes  
Proposed special ditches  
Ditch gradients with DPI station and elevation  
Non-standard superelevation transition details  
High water elevations  
Existing utilities  
Mainline drainage structures with structure numbers  
Cross drains with structure number, size and flow line elevations

**SPECIAL PROFILE**

Final intersection profile grades  
Final curb return profiles (if applicable)  
Superelevation diagrams as required  
Final ramp profile grades including nose sections  
Preliminary access and frontage road profiles (may contain one or more types of special profiles.)

**BACK-OF-SIDEWALK PROFILE**

Complete

**INTERCHANGE LAYOUT**

Curve data including superelevation and design speed  
Coordinate data, stationing and ties  
Access and/or frontage roads with dimensions and R/W  
Fence location  
Ramp identification

**RAMP TERMINAL DETAILS**

Preliminary geometrics  
Radii, transition/taper lengths  
Ramp identification

**INTERSECTION LAYOUT**

Limits of proposed construction along side roads  
Applicable notes  
Cross drains with structure numbers and pipe sizes  
Storm drain pipes including sizes  
Final geometrics including dimensions, radii, offsets, station pluses and taper/transition lengths

**DRAINAGE STRUCTURES**

Vertical and horizontal scale  
Roadway template with profile grade elevation  
Underground utilities  
Special sections at conflict points  
R/W lines (at critical locations)  
Storm drain construction notes  
Flow arrows  
Applicable notes  
Structure numbers and location station along right side of sheet  
Drainage structures with numbers in numerical order, type, size, location and flowline elevations

**OUTFALL / LATERAL DITCH SYSTEM - PLAN VIEW**

North arrow and scale  
Roadway centerline  
Existing and/or survey ditch centerline  
Proposed ditch centerline with stationing  
Begin and end ditch stations  
Equations  
Ditch centerline intersection stations  
R/W lines  
Bearings of ditch and mainline centerlines  
Proposed storm drain pipes  
Ditch PI stations with deflection angle left or right  
Proposed drainage structures with structure numbers  
Existing topography, drainage structures, utilities  
Limits of wetlands

### **OUTFALL / LATERAL DITCH SYSTEM - PROFILE VIEW**

Bench mark information  
Scale  
Existing ground line  
Proposed ditch profile with grades  
Begin and end ditch stations  
High water elevations  
Proposed storm drain pipes with size  
Existing Utilities  
Overland flow or overtopping elevations  
Proposed drainage structures with structure numbers  
Typical section can be placed in either plan or profile

### **LATERAL DITCH CROSS SECTIONS**

Horizontal and vertical scale  
Existing ground line  
Station numbers  
Survey centerline and elevation  
R/W  
Begin and end ditch stations  
Begin and end excavation stations  
Earthwork quantities  
Existing utilities  
Total earthwork quantity in cubic yards (CY)  
Proposed template with ditch bottom elevation

### **RETENTION/DETENTION POND DETAILS**

North arrow and scale  
Roadway centerline ties  
Proposed pond centerline with stationing  
Begin and end pond stations  
Side slopes, dimensions, and elevations  
R/W lines  
Berm, fence and gate locations  
Soil boring information  
Proposed pond drainage structures with structure numbers  
Existing topography, drainage structures, utilities  
Pond sections (2 perpendicular to each other)  
Pond Typical Section  
Limits of wetlands

### **RETENTION/DETENTION POND CROSS SECTIONS**

Horizontal and vertical scale  
Existing ground line  
Station numbers  
Begin and end pond stationing  
Pond centerline and elevations  
R/W  
Soil borings  
Water table  
Extent of unsuitable material  
Earthwork quantities  
Existing utilities  
Proposed template with bottom elevation

### **CROSS SECTION PATTERN**

North arrow and scale  
Interchange layout  
Access and frontage roads  
Mainline and ramp stationing  
Begin and end bridge stations  
Cross section location lines  
Ramp baselines with nomenclature and stationing

### **ROADWAY SOIL SURVEY**

Soil data  
Project specific

### **CROSS SECTIONS**

R/W  
Special ditch bottom elevations  
Equivalent stations for ramps and mainline  
Mainline equation stations  
Soil borings  
Water table  
Extent of unsuitable material  
Proposed template with profile grade elevation  
Earthwork Columns  
Begin and end stationing for project, construction and earthwork, bridge and bridge culvert  
Existing utilities affected by the template and where unsuitable materials are present

**STORMWATER POLLUTION PREVENTION PLANS (SWPPP)**

Narrative Description (with supplemental topographic maps, when used)

**TRAFFIC CONTROL PLANS**

Preliminary traffic control plan  
Detour plan  
Phasing plan  
R/W - existing and additional if required  
Existing Utilities

**UTILITY ADJUSTMENT**

All existing utilities highlighted

**SELECTIVE CLEARING AND GRUBBING**

Limits of construction by station and type of selective clearing and grubbing

**MITIGATION PLANS**

Project Specific

**MISCELLANEOUS STRUCTURES PLANS**

Retaining walls (Cast in place, proprietary, temporary) if required

**SIGNING AND PAVEMENT MARKING PLANS - KEY SHEET**

Financial Project ID  
(Federal Funds) notation, if applicable  
State Road Number  
County Name  
FDOT Project Manager's Name  
Begin/end stations & exceptions  
Station Equations (if location map is shown)  
Engineer of Record  
Consultants name & address, if applicable

**SIGNING AND PAVEMENT MARKING PLANS - TABULATION OF QUANTITIES**  
Project Specific

**SIGNING AND PAVEMENT MARKING PLANS - PLAN SHEETS**

North arrow and scale  
Basic Roadway Geometrics  
Begin/End Stations and Exceptions  
Station equations  
Conflicting utilities, lighting or drainage  
Pavement markings  
Sign locations  
Applicable pay items

**SIGNING AND PAVEMENT MARKING PLANS - SIGN DETAIL SHEETS**  
**GUIDE SIGN WORK SHEETS**  
Project Specific

**SIGNALIZATION PLANS - KEY SHEET**

Financial Project ID  
(Federal Funds) notation, if applicable  
State Road Number  
County Name  
FDOT Project Manager's Name  
Begin/end stations & exceptions  
Station Equations (if location map is shown)  
Engineer of Record  
Consultants name & address, if applicable

**SIGNALIZATION PLANS - TABULATION OF QUANTITIES**

Project Specific

**SIGNALIZATION PLANS - PLAN SHEET**

North arrow and scale  
Basic Roadway Geometrics  
Begin/End Stations and Exceptions  
Station Equations  
Conflicting utilities, lighting or drainage  
Signal Pole Location  
Type and location of loops  
Type and location of signal heads  
Pedestrian Signal  
Location of Stop Bars  
Location of Pedestrian Crosswalks  
Sheet Title  
Applicable pay items

**SIGNALIZATION PLANS - POLE SCHEDULE**

Pole location, number, type  
Pole dimensions  
Pay item number and quantity  
Joint use pole details, if applicable  
Foundation design

**SIGNALIZATION PLANS - INTERCONNECT/  
COMMUNICATION CABLE PLAN**

Placement of interconnect/communication  
cable  
Conflicting utilities, lighting or drainage  
Other project specific details

**ITS PLANS - KEY SHEET**

Financial Project ID  
(Federal Funds) notation, if applicable  
State Road Number  
County Name  
FDOT Project Manager's Name  
Begin/end stations & exceptions  
Station Equations (if location map is shown)  
Engineer of Record  
Consultants name & address, if applicable

**ITS PLANS - TABULATION OF QUANTITIES**

Project Specific

**ITS PLANS - PLAN SHEETS**

Project Specific, but must include:  
North arrow and scale  
Basic Roadway Geometrics  
Begin/End Stations and Exceptions  
Station equations  
Conflicting utilities, lighting or drainage  
Applicable pay items

**ITS PLANS - DETAIL SHEETS**

Project Specific

**LIGHTING PLANS - KEY SHEET**

Financial Project ID  
(Federal Funds) notation, if applicable  
State Road Number  
County Name  
FDOT Project Manager's Name  
Begin/end stations & exceptions  
Station Equations (if location map is shown)  
Engineer of Record  
Consultants name & address, if applicable

**LIGHTING PLANS - TABULATION OF QUANTITIES**

Project Specific

**LIGHTING PLANS - POLE DATA AND LEGEND SHEET**

Each pole by number with location, arm length, mounting height and luminaire wattage noted.  
Design value for light intensities and uniformity ratios shown.  
Legend and sheet title

**LIGHTING PLANS - PLAN SHEETS**

North arrow and scale  
Basic Roadway Geometrics  
Begin/End Stations and Equations  
Station Equations  
Conflicting utilities, drainage, signal poles, etc.  
Sheet title  
Applicable pay items  
Pole symbols shown at correct station location and approximate offset

**LIGHTING PLANS - HIGH MAST**

Foundation detail sheets (project specific)  
Boring data sheets (project specific)  
Conflicting utilities, drainage, lighting

**LANDSCAPE PLANS - KEY SHEET**

Financial Project ID  
(Federal Funds) notation, if applicable  
Fiscal year and sheet number  
State Road Number  
County Name  
FDOT Project Manager's Name  
Begin/end stations & exceptions  
Station Equations (if location map is shown)  
Landscape Architect of Record name and registration number  
Consultants name, address, and contract number, if applicable  
Index of landscape plans

**LANDSCAPE PLANS - TABULATION OF QUANTITIES AND PLANT SCHEDULE**

Project Specific

**LANDSCAPE PLANS - TABULATION OF QUANTITIES AND SCHEDULE FOR IRRIGATION AND SITE AMENITIES**

Project Specific

**LANDSCAPE PLANS – PLANTING PLAN SHEETS**

Project centerline  
Edge of pavement (edge of traffic lanes)  
Curbs or curb and gutter  
Drainage systems  
Guardrails  
Right of way and/or limited access fence line  
Sidewalks or other planned or existing structures  
Lighting, signs, and signal poles  
Intersections and driveways which are noted in the plans  
Existing and proposed overhead and underground utility locations  
Clear Zone/Horizontal clearance (should be plotted or safety setback distances noted frequently on each plan sheet)  
View zones for permitted outdoor advertising signs  
Canopy limits  
Existing vegetation (to remain or be removed)  
Existing off site features and conditions that affect or are affected by the project  
Fence and gate locations  
Setbacks from structural elements or drainage system  
Limits of clear sight  
Transit facilities  
Proposed Planting Plan (Plant symbols and Plant quantities)

**LANDSCAPE PLANS - IRRIGATION PLAN SHEETS**

(if applicable)  
Type of system  
Location and size of mainlines and lateral lines  
Type and location of spray heads and rotors  
Type and location of valves, sleeves, controllers, water sources/point of connection, backflow preventers, and isolation valves

**LANDSCAPE PLANS –DETAILS SHEET**

Applicable landscape details  
Irrigation symbology with associative descriptions (if applicable)

### **2.3.2.3 Phase III Plans Submittal**

Ordinarily, the only other remaining work to be done will be to comply with comments received as a result of the review. The Work Zone Traffic Control items paid for on a 'per day' basis shall be estimated and included in the Phase III submittal.

The FDOT construction department will make a biddability review and will establish construction duration as a part of the Phase III review after receiving the computation book. This information should be included in the Phase III review comments transmitted back to the EOR. The estimated pay items for Work Zone Traffic Control shall be revised as necessary based on the established construction duration.

All plan sheets and computation books are complete and the Financial Management (FM) system has been updated. Final drainage tabulations shall also be furnished for review.

Utility Work by Highway Contractor (UWHC) Agreement Plans, consisting of a key sheet, and mainline plan-profile showing proposed utility horizontal and vertical locations, are also to be included in the Phase III submittal.

A "marked up" set of the plans and review comments shall be returned to the EOR for incorporation of the comments into the plans. When the review comments have been resolved and documented by the designer, the plans are ready to proceed to completion.

### **2.3.2.4 Phase IV Plans Submittal**

After all corrections noted in the Phase III submittal are complete and the cost estimate is complete, the plans are considered final.

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