Arizona Department of Transportation Record Drawing Guidelines

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Contents

Letter to Users1
Background / Scope / Authority / Guidance / References1.1 Background / Scope1.2 Authority1.3 Guidance1.4 References1-2
Definitions 2.1 Definitions
Record Drawing Preparation (See Flowchart Stage I, Appendix A) 3.1 Transferring the field changes to the Record Drawings (RE Requirements)
Record Drawing Preparation (See Flowchart Stage II, Appendix A) 4.1 Creating the Final Record Drawings (Record Drawing Designer Requirements
Record Drawing Preparation (See Flowchart Stage III and Stage IV, Appendix A) 5.1 Final Record Drawing Review (Project Resource Office Review Requirements)
Record drawing General Requirements6.1 Record Drawing General Requirements6.2 Record Drawing Deliverables6.3 Record Drawing File Naming Convention6-10
CADD File Archiving Requirements 7.1 CADD File Deliverables
AppendicesAppendix A: FlowchartAppendix B: Project Submittal FormAppendix B: Project Submittal FormAppendix C: Face Sheet Information BlockAppendix D: Record Drawing Preparation EstimateAppendix E: "No-Plans" Document8-5Appendix F: Critical Structures Notice8-6Appendix G: Record Drawing Example



Letter to Record Drawing Guideline Users

The Arizona Department of Transportation (ADOT) Record Drawing Guidelines is written to ensure that all stakeholders participating in the development of record drawings will apply consistent methodologies and to provide ADOT personnel and Consultants with the guidelines and procedures needed to prepare final record drawings (formerly known as "As-Built" Drawings).

These guidelines are intended to provide consistency in the development of final record drawings, and record accurately the information of any modification(s) made during construction on projects throughout the State of Arizona. This guidance document also sets requirements to ensure the electronic files are received in a timely manner and that they are stored electronically in a format that preserves the documents for future use by stakeholders through the Repository of Online Archived Documents (ROAD).

It is the responsibility of the Project Resource Office to maintain the engineering records for all civil construction projects for decades to come.

Our goal is to provide you with a guideline that will include all of the most current documentation in one location and to bring all of the prior documentation related to preparing final record drawings into one document which will help to improve consistency and accuracy in the development of the final record drawings.

Please note that updates to this document will be ongoing as processes change, or new more efficient methods are established to make the development process more accommodating for our stakeholders and provide our customers with accurate records through the ROAD portal.

Please feel free to contact the Project Resource Office with any questions or modifications to these guidelines.



Background / Scope / Authority / Guidance / References

1.1 Background / Scope

This guideline was established as of October 1st, 2017 to update the current record drawing documentation, which is in some cases, was out of date and may have changed based on the new procedures for submitting Record drawings to the department. This guideline has been developed to incorporate any of the previously distributed guidance that may still be accurate and/or in effect and also supersedes any previous guidance documents that may have changed based on newly developed procedures. This guideline is intended to provide a complete and accurate explanation of the record drawing process, policies and procedures that are available in various locations, and combine these documents into one document.

1.2 Authority

ADOT is required by State law to keep an official record of the final plans for all construction projects which involve ADOT oversight (per Arizona Revised Statues ARS 32-152). These record drawings are required on all ADOT administered projects and must record the field changes made to the original design plans during the construction of a project.

On November 8th, 2008 the State Engineers Office distributed a memorandum on the "As Built Procedure". The information in that memorandum is covered within this guidance document. In addition, on November 10th, 2010 an Intermodal Transportation Division (ITD) policy ENG 10-1 – "As-Built Plans Archiving Policy" was established for further guidance on the "As-Built" procedure. As part of an agency wide effort to update old policies, it was requested by the State Engineers Office to change the ENG 10-1 policy to a guideline. This guideline will replace the ENG 10-1 policy most of which is covered within this guideline.

In January of 2004 an ADOT CADD Archiving Team was created to review the existing archive process for storing electronic project data. Documents were produced that outlined the "*CADD Files Archiving Process*", and "*Technical Design Group Requirements for Archiving*". This information is found in the "*Dictionary of Standardized Work Tasks*" and is currently available on the Project Management web site. All engineering design contracts that produce CADD drawings include the requirement to use the "*Dictionary of Standardized Work Tasks*" as part of the contract. In June of 2005, a memorandum was issued from the State Engineers Office stating that the ADOT CADD File Archiving Process will be the standard method for both ADOT staff-designed projects as well as consultant-designed projects. In addition, as part of the record drawing submittal process, if the CADD files were not submitted after the project went to bid, then the CADD files are required to be submitted before the project can be closed out.



On April 7th, 2015 a memorandum was issued by the Project Resource Office that replaced the terms "as built drawing" and/or "as build drawing" with the updated term "record drawings". At the time of the writing of this guidance document the Arizona Revised Statues ARS 32-152 has not been changed to reflect the term record drawing, however the Arizona Revised Statue that reference "As Build" and/or "As Built" is referring to the new term record drawings for the purposes herein.

1.3 Guidance

Our goal is to give you a guidance document that will provide quality and consistency and help the person(s) responsible for completing the documentation or recording of changes made to the as-bid documents. There may be additional items that are not covered in this guidance document which may need to be addressed on a case by case circumstance in which the Project Resource Office can be contacted directly for additional guidance and direction.

This record drawing guidance document supersedes any other record drawing guidance documents. This record drawing guidance document does not supersede any current State Statues and is intended only for general guidance in the record drawing preparation and submittal process.

The record drawing and CADD archiving procedures described in the following chapters shall be applied by ADOT staff and consultants to all projects which involve ADOT oversight to assure ADOT and other stakeholders the deliverance and availability of the record drawing information and CADD data.

Record drawing plans are required on all projects including but not limited to: permit projects, procurement or as-bid projects, sub-program projects, transportation enhancement projects, local government projects and alternate delivery projects.

CADD files are required for archiving on all state highway system projects. CADD file deliverables are specified in Section 7.1.

If a project crosses or impacts property owned or maintained by the Central Arizona Water Conservation District (CAWCD), Maricopa Water district (MWD), please refer to the Contract Special Provisions. These agencies may need a copy of the record drawings. If a copy of the record drawings is required for an outside agency, it is the responsibility of the Project Manager to deliver or inform the Project Resource Office that a copy of the record drawings needs to be provided to the agency.

Any reference to a PE in this document is a person, ADOT or Non-ADOT, who has been granted registration by the Arizona State Board of Technical Registration and is authorized to practice engineering in the State of Arizona.



1.4 References

Project Resource Office Web Page: <u>https://azdot.gov/business/ManagementServices/ProjectResourceOffice</u>

Record Drawings Guidelines Web Page: <u>https://azdot.gov/business/ManagementServices/ProjectResourceOffice/record-drawing-guidelines</u>

Bridge Group Guidelines Web Page: https://www.azdot.gov/business/engineering-and-construction/bridge/guidelines

Dictionary of Standardized Work Tasks <u>https://azdot.gov/business/project-management-services/project-management-group/references-projec</u> <u>t-management-group</u>

Repository of Online Archived Documents (ROAD) Portal: <u>https://road.azdot.gov/</u>

Record Drawings Email: <u>RecordDrawings@azdot.gov</u>

Project Resource Office Contact Number: 602-712-7015



Definitions

2.1 Definitions

As-Bid Plans – The as-bid plan set is the final sealed and signed plans including addenda at bid opening.

As-Built Plans – The term or words "as-built" plans has been changed to "record drawing" plans. This new definition was adopted by ADOT on April 7th, 2015. The terms as-built or as-build are used interchangeably but the official term on all ADOT documentation is or will be changed to record drawing(s).

Additional Information Sheets – Additional information sheets are drawings that contain additional information pertinent to the project. This may include hand drawn sketches or actual additional drawings provided for or included as part of the project. These additional information sheets must be sealed, signed and dated by a PE.

Addendum – Addendums or Addenda are revisions to the contract made available to bidders after bid advertisement, but prior to awarding the contract. After the contract has been awarded, changes are referred to as Supplemental Agreements. Addenda are typically shown in black on the record drawings since they occurred prior to the contract being awarded. The original sheet is not required in the record drawings as long as the addendum is reflected on the drawing that requires the addendum. If the original sheet is available, it can be included with an "X" from corner to corner of the sheet (red or black). (See Chapter 6, Section 6.1, # 4)

Agency – Agency refers to the agency being discussed, typically an outside agency.

CADD – Computer Aided Design and Drafting, typically refers to the software and/or the electronic files used to produce engineering drawings.

Change Order – Change orders are done after the project has been awarded and the project has gone to construction. Change orders are a form of supplemental agreement that occurs from an unforeseen situation during construction. Change orders are shown in the record drawings in red.

In some cases the change order requires that a new sealed plan sheet be developed during construction activities to replace the existing as-bid sheet. The changes on the new sealed plan sheet and associated sheets need to identified as outlined in Chapter 6, Section 6.2, # 5 (Also see Appendix G for example)



Construction Administrator – The ADOT Resident Engineer (RE) or the person who is in charge of administering the project during construction. This person needs to be a Professional Engineer (PE) and is designated as such on the face sheet of the record drawings in the information block. The Construction Administrator must also be an ADOT employee. (See Appendix C)

Critical Structures Notice – The Critical Structures Letter is uploaded to the ROAD portal in place of the record drawings plans on any projects (typically bridge projects) that have been identified as a critical structure. This is pursuant to measures taken through the Federal Homeland Security Act of 2002. Access to the record drawings for critical structures must be requested through the ADOT Office of Safety & Risk Management.

Designer of Record – The Designer of Record is the PE who is responsible for the design of the as-bid plans and responsible for sealing the as-bid plan sheets. There may be more than one Designer of Record on a project.

Department – The Department refers to the Arizona Department of Transportation.

Design Project Manager (PM) – The Design Project Manager (PM) is the person in charge of or oversees the design and/or post design services of a project and initiates, coordinates and evaluates the RE request from the designing side of the project to ensure the transferred changes requested by the District RE are recorded in the record drawings.

Electronic Design Files – Electronic design files are created using Computer Aided Design Drafting (CADD) software.

Field Red-Lines – The field red-lines are the changes or modifications that occurred during construction of the project. These are typically minor modifications that are not dealt with by a supplemental agreement or a change order. These can include quantity adjustments, minor field modifications, sketches, added plan sheets, exhibits or anything that was done on a project that is outside of the original design and did not require a change order.

Final Record Drawings – Also see Preliminary Record Drawings. The final record drawings is the final set of record drawings completed by the Record Drawing Designer under the supervision of the RE / Construction Administrator and submitted to the Project Resource Office for approval and conformity to the current ADOT Record Drawing Guidelines and archived into the ROAD portal.

Information Block – See Record Drawing Information Block for definition on page 2-3.

Liaison – The liaison is an employee that represents ADOT.



No-Plans – The term "No-plans" refers to projects that do not contain plan sheets. No-plans are typically used for procurement projects or projects done by special provisions. A No-plans document (see Appendix E) is required to be submitted to the Project Resource Office. The document is reviewed and uploaded to the ROAD portal. A blank PDF copy of the No-Plans document is available on the record drawings web site.

PE – See Registered Professional Engineer (PE) on page 2-3.

Preliminary Record Drawings – Also see Final Record Drawings. The Preliminary Record Drawings generally refers to the set of record drawings that are either being used in the field to document changes, or given to the Record Drawing Designer to produce the final record drawings.

Prime Contractor – The Prime Contractor is the Contractor that the project was awarded to. There may be Sub-Contractors hired by the Prime Contractor, however the Prime Contractor is responsible for the project delivery. The Prime Contractor is identified in the Record Drawing Information Block on the Face Sheet of the final record drawings. (See Appendix C)

Project Submittal Form – See Record Drawing Project Submittal Form on page 2-4.

Record Drawing Information Block – This is shown on the Face Sheet of the project plans along the right side of the sheet. This Record Drawing Information Block includes the name of the Prime Contractor / Construction Company that constructed the project and the date the project was completed. This block also contains the name of the Construction Administrator, who is the Resident Engineer (RE) and is a PE or RLA (for landscape projects) and is designated as such within the information block and the date the RE signed off on the project completion. The Construction Administrator must be an ADOT employee. This block also has the name of the Record Drawing Designer and the date the record drawings were completed. (See Appendix C)

Red-lines – See Field Red-lines on page 2-2.

Registered Professional Engineer (PE) – the PE is a person, ADOT or Non-ADOT, who has been granted registration by the Arizona State Board of Technical Registration and is authorized to practice professionally in the State of Arizona. This individual is usually a member of the design team who is in charge of developing the details for a project and has current or active license when the project is required to be sealed and signed. This person can be a Civil Engineer, Landscape Architect, Architect or Land Surveyor.

Resident Engineer (RE) – The RE is an ADOT employee and a PE who is the designated as the Construction Administrator on the project who is in charge of administering the project and responsible for the field red-lines being recorded completely and accurately.



Record Drawing Coordinator / Project Resource Office Liaison – The Record Drawing Coordinator is an ADOT employee who oversees the record drawing procedure and verifies the content of the deliverables to the Department.

Record Drawing Designer – The person in charge of the record drawing plans for a project and ensures that the field red-lines are transferred accurately to the final record drawing Plans. Typically this person is assigned or designated by the Project Manager and/or the RE / Construction Administrator.

Record Drawing Plans – Record Drawing Plans are all of the changes to a construction document for a project based on a Professional Engineers (PE) changes to the original design. The changes are based on field observations or information obtained during construction. ADOT is required to maintain the record drawings (formerly known as "As Built Plans") per the Arizona Revised Statues ARS 32-152. The record drawing red-lines record the changes occurring during construction and are incorporated onto the plans manually and/or electronically. The field red-lines set and other miscellaneous documents will be provided by the District's Resident Engineer / Construction Administrator.

Record Drawing Project Submittal Form – The RE / Construction Administrator must submit a Record Drawing Project Submittal Form (See Appendix B) with the final submittal of the record drawings to the Project Resource Office. This project submittal form lets the project resource office know that the RE / Construction Administrator has reviewed the final record drawings and they include all of the field changes and the changes have been recorded accurately based on the marked up version from the field.

ROAD – ROAD is the acronym used for the Repository of Online Archived Documents. This is a cloud based portal to a database that contains all of the final record drawings for state and local governments. Record drawings can be searched by project information or through an interactive GIS map.

ShareFile – ShareFile is available to ADOT employees as a method to transfer large files or files that are too large to send through email. The maximum message size for emails is 20 MB (includes message and any/all attachments). ShareFile has replaced the ADOT FTP site. To access ShareFile you will need to setup a ShareFile account by opening a Service Desk Ticket from Information Technology Group (ITG). This is done either through an email or calling the Help Desk.

Sketches – Sketches may be added to a set of plans however they must be clear and the quality of the sketch and information must be reproducible if the sketch is scanned or copied. If the sketch is such that it is changing the design of the project or adding significantly to the design, the sketch must be signed, sealed and dated by a PE.

Supplemental Agreement – Is a signed written agreement between ADOT and the Contractor covering changes of work not otherwise provided for in the contract such as revisions or amendments to the terms of the contract.



Record Drawing Preparation (See Flowchart Stage I, Appendix A)

3.1 Transferring the field changes to the Record Drawings (RE Requirements)

- 1. It is recommended that the field office identify a single drawing set or electronic (CADD or PDF) file, including all addenda, to be used for red-lines prior at the start of construction. This set of drawings should be used to keep track of or record all of the field changes during construction. Modifications shall be recorded promptly to ensure that a thorough and accurate set of final record drawings are compiled. This set of drawings should be kept clean, dry and apply all safeguards avoid any damage to the plan set. If a drawing within the set is damaged or impaired, immediately replace the damaged drawing with a clean copy to record any changes. If an electronic file is used it should be stored in a directory accessible to the project field staff on a server or drive that is backed up regularly.
- 2. During the course of construction activities, the Resident Engineer (Construction Administrator) is responsible for recording any changes in the locations, dimensions or quantities of constructed elements from those shown in the original as-bid contract documents (i.e., construction plan sheets). The Resident Engineer (Construction Administrator) shall record all changes to the original design on a copy of the As-Bid plans in red so that it is clearly identifiable as to changes that have occurred.

Any major design changes should be discussed with the original Designer of Record that prepared the As-Bid plans.

Items that should be taken into consideration during the construction phase are:

- Addenda
- Supplemental Agreements
- Change Orders
- Field Adjustments
- Request for Information Drawings
- Shop Drawings (Unique/Different from As-Bid plans)
- Bridge Working Drawings *
- Found, relocated and abandoned utilities

Red-lines are a continuous process from the start of a project.

*Per the General Provisions in Section 16 of the ADOT Bridge Group Design Guidelines, available on the Bridge Group web page (see References on page 1-3), the following selected working drawings will become part of the final record drawings for permanent retention:



- 1) Post-tensioning details
- 2) Expansion Joint details (non-standard only)
- 3) Proprietary bearing details
- 4) Proprietary retaining wall details
- 5) Proprietary sound barrier wall details
- 6) Precast and stay-in-place deck panels
- 7) Other working drawings for atypical structures as specified in the special provisions
- 3. The Resident Engineer and Design Project Manager (PM) must coordinate the preparation efforts with the ADOT Technical Section(s) or Consultant(s) preparing the final record drawings, for the proper allowance of time and funding (see Chapter 3, Section 3.1, # 4). It is recommended that the "Team" comprised of the Resident Engineer (RE), the Project Manager (PM), and the Record Drawing Designer meet to determine the best approach to transferring the field changes to the final record drawings (several methods are described below in Section 3.2).

During the coordination meeting, the RE, PM and Record Drawing Designer should be aware of the required checklist shown on the "Record Drawings Project Submittal Form". (Appendix B, and also Chapter 6, Section 6.1, # 12) It is also a good time for the team to check the record drawings web page for additional guidance or requirements on the preparation of the final record drawings.

- 4. The RE, PM, Designer of Record and the Record Drawing Designer shall prepare the "Record Drawing Preparation Estimate". (see Appendix D) This estimate should take into consideration the method that will be used to produce the final record drawings as indicated in Chapter 3, Section 3.2. This form is a tool for the PM to verify the reasonableness of the Record Drawing Designers cost to prepare the final record drawings. A blank Excel copy of this form is available on the record drawing web page.
- Within 45 days of the project's final acceptance (including Consultant, internal ADOT or Local Government administered projects), the RE shall assemble the final red-line drawings and transmit them, along with the Record Drawing Preparation Estimate (see Chapter 3, Section 3.1, # 4) to the Record Drawing Designer (If required based on Method used, See Chapter 3, Section 3.2).
- 6. The RE shall complete the "Record Drawing Information Block" on the face sheet of the project plans. This includes the company name of the Prime Contractor and the date the construction project was finished. The name and date of the Construction Administrator / RE and date the red-lines were completed and ready to be handed off to the Record Drawing Designer. <u>The RE shall keep a copy of the preliminary record drawings / red-lines for a record during the time the Record Drawing Designer completes the final record drawings.</u>



- 7. The RE must ensure that the final record drawing set includes all Addenda, Revisions (change orders, Letter of Agreements, etc.), field changes and any additional drawings created as a result of unforeseen circumstances (see checklist in Chapter 6, Section 6.1, # 12). Any additional drawings must be stamped, sealed and signed by a PE. Depending on the method used to create the final record drawings, once the RE is sure that all of the changes are recorded or documented, the RE will then hand off a color copy of the red-lines to the Record Drawing Designer for final preparation.
- 8. When the RE transmits the completed red-lines to the Record Drawing Designer for final record drawing preparation, the RE shall email both the PM and the Field Reports Section advising them of the transmittal date. Field Reports will enter the date into the Field Office Automation System (FAST) to be reflected on the Contract Card.

3.2 Methods to prepare Final Record Drawings

There are several methods (Method a - d) or processes available to prepare the final record drawings.

NOTE: Regardless of the method chosen to prepare the final record drawings, the final product must be legible, clean, not faded and reproducible.

a) On smaller projects that do not require a lot of field changes, the RE can mark (using a red pen) the field red-lines on the designated Preliminary Record Drawing plans set. As long as the field red-lines are clean, neat, complete, legible and reproducible, the RE or the Record Drawing Designer can consecutively number the sheets in the lower right corner and add the date in the upper right corner in red per the attached example plan set (see Appendix G, Record Drawing Example). This complete set can be scanned into a PDF/A document and directly submitted to the Project Resource Office for review (See Chapter 6, Section 6.2, # 2). This method does not require electronically transferring the red-lines into the PDF document. The RE / Construction Administrator shall also complete the Record Drawing Project Submittal Form and submit this form with the final record drawings.

For Methods b – d, if the red-lines are being transferred to a PDF document, the size of the font used on the PDF should be large enough to read when the page is at its extents. Typically for a 17"x11" sheet the PDF font height would be 10 and on a 34"x22" sheet the size would be 20.

b) The RE / field office can make the field red-line changes electronically to a PDF copy of the as-bid plan set as changes are required (during construction activities). Changes should be made to the PDF document daily as the field changes are completed. The red-lines shown on the PDF must be done according to these guidelines (see Appendix G, Record Drawing Example). This PDF copy must be protected and saved to location that is backed up (not on the local hard drive). Once the project is complete and all of the field changes have been recorded, the RE can create a PDF/A



document and submit this, along with a completed Record Drawing Project Submittal Form directly to the Project Resource Office for review.

- c) A legible copy of the field red-lines that the RE / Construction Administrator has prepared are given to the Record Drawing Designer and the red-lines are transferred electronically to produce the set of final record drawings. The electronically transferred red-lines can be done using Computer Aided Design and Drafting (CADD) software or any other application such as Adobe Acrobat to produce the final PDF document. If CADD is used to record the changes, the CADD file must be capable of printing the changes in red. A special pen table may be required to print out the changes in red. Alternatively, as long as the red-lines are clean, neat, complete, legible and reproducible, the Record Drawing Designer can manually add the sheet numbers and record drawing date to each drawing. In either case, the final record drawing PDF must be submitted as a PDF/A document.
- d) On large projects that require many field changes, the RE and the Designer of Record can communicate any field red-line changes to the Record Drawing Designer during construction activities as changes occur. This allows the Record Drawing Designer the option of maintaining a PDF document with red-line changes as construction progresses. If there are major changes to a drawing or the need for additional drawing(s), the Record Drawing Designer may create these in CADD and print out a PDF for insertion into the preliminary record drawing plans set. Any new drawings added to the original as-bid plan set must be sealed, signed and dated by a PE. As indicated in method c, there may be a need for a special pen table to allow printing the field changes from the CADD document in color (red).

If major modifications and/or a new plan sheet(s) is required, the RE, Designer of Record and the Record Drawing Designer should determine if the new plan sheet should be drawn using CADD or if an additional sheet can be sketched or hand drawn to replace the original as-bid sheet(s). In either case, the original plan sheet(s) is still required in the final record drawing plans submittal. The original plan sheet(s) will have a red "X" drawn through the sheet(s) and the new sheet(s) will be included after the crossed out sheet(s). The "X" on each sheet should go from the upper left corner to the lower right corner and the lower left corner to the upper right corner (see the examples in the record drawings included with these guidelines). The "X" should not be so thick as to obscure any information on the plan sheet. The new plan sheet must be stamped, signed and dated by a PE.

Keep in mind that final record drawings can be submitted with field red-lines done by hand. If the red-line changes to the plans are neat, clean, legible and reproducible the record drawing sheet numbers and date can be added to the plan sheets and electronically submitted as final record drawings (PDF/A). If there are drawings that contain many changes or markups, sometimes it is easier to make the changes electronically using Adobe Acrobat or CADD so that you can move things around such as text and clouding. Erasing on the record drawings is not an option.

Never remove or cover any original values or details.



Record Drawing Preparation (See Flowchart Stage II, Appendix A)

4.1 Creating the Final Record Drawings (Record Drawing Designer Requirements)

- 1. Once the RE / Construction Administrator has finished gathering all of the record drawing data, the field red-lines (mark-ups) depicting construction changes are turned over to the Record Drawing Designer (Consultant or ADOT technical section) to prepare the record drawing plans.
- 2. Once the Record Drawing Designer receives the red-line drawings, the Record Drawing Designer should review the red-line drawings for accuracy, legibility and completeness. If there are any questions or something is not understood or clear on the field red-lines, the Record Drawing Designer must contact the RE / Construction Administrator to clear up any issues in a timely manner.
- 3. Once the Record Drawing Designer receives the red-line drawings, the Record Drawing Designer must complete the final record drawing plans within 60 days or less.
- 4. The Record Drawing Designer will complete the final record drawings in accordance with these Guidelines and information available on the ADOT Project Resource Record Drawing Guidelines Web Page. More information on general record drawing preparation guidelines is available is Chapter 6. If there are any questions during the preparation of the final record drawings, the Record Drawing Designer will contact the RE for clarification. If there are any questions on the preparation of the final record drawings regarding the final submittal, the Record Drawing Designer and/or the RE can contact the Project Resource Office.
- 5. The Record Drawing Designer must submit the completed record drawing plans to the RE / Construction Administrator for review to ensure all of the field red-lines and information is included in the record drawing plans. The record drawing plans must be converted to a PDF/A document. Information on creating a PDF/A document is available in Chapter 6, Section 6.2, # 2 and also available on the Project Resource Office Web Page.
- 6. The RE / Construction Administrator should complete the review within 5 working days.
- 7. During the RE / Construction Administrators review, the RE / Construction Administrator shall download the Record Drawing Project Submittal Form (Appendix B) and make sure the final record drawings are in conformance with the checklist on the submittal form.

The Record Drawing Project Submittal Form is located on the Project Resource Office, Record Drawings Web Page.



- 8. Once the RE / Construction Administrator approves the record drawings, the RE / Construction Administrator shall send an email to the Record Drawing Designer and the Project Resource Office with the Project Request Form attached. The Project Resource Office email address for record drawing submittals is: <u>RecordDrawings@azdot.gov</u>.
- 9. The Record Drawing Designer will then email the final record drawings in PDF/A format to the Project Resource Office at: <u>RecordDrawings@azdot.gov</u> and copy the RE / Construction Administrator on the email notification.



Record Drawing Preparation (See Flowchart Stage III and Stage IV, Appendix A)

5.1 Final Record Drawing Review (Project Resource Office Review Requirements)

- Once the final record drawings are submitted to the Project Resource Office, the Project Resource Office will send out an email indicating that we have received the record drawings and will be reviewing them for conformity to the ADOT Record Drawing Guidelines. The Record Drawing Designer and RE / Construction Administrator will be notified once the drawings are accepted and approved by the Project Resource Office or if there are any changes that need to be made to the submitted drawings.
- 2. The Project Resource Office will complete the review of the record drawings within 5 working days (depending on the complexity of the project If more time is needed the Project Resource Office will reach out to the appropriate individuals and inform them of the time extension.).
- 3. If there are changes that need to be made to the record drawings, the Project Resource Office will notify the RE / Construction Administrator and Record Drawing Designer of the required changes. The Record Drawing Designer will have a maximum of 14 days to make the changes to the record drawings from the date of notification of non-compliance.
- 4. The Record Drawing Designer will need to re-submit the record drawings to the Project Resource Office for another review. The Record Drawing Designer will copy the RE / Construction Administrator on the submittal. Reviews will continue until the Project Resource Office approves the final record drawings.
- 5. Once the Project Resource Office accepts the final record drawings, the Project Resource Office will generate an acceptance email and send the acceptance email to the RE / Construction Administrator, the Record Drawing Designer, Field Reports, MPD, Environmental, Final Voucher and the Project Manager notifying them that the final record drawings have been accepted. The Field Reports Section will send out an email indicating that the final record drawings have been documented in the FAST Contract Card.
- 6. The Project Resource Office will load the final record drawings into the Repository of Online Archived Documents (ROAD) portal and the final record drawings will be available typically the next day.
- 7. The Project Resource Office will then send a copy of the final record drawings to the State Archives. Submittals to the State Archives are typically done on a quarterly basis. There is no



notification sent to the RE / Construction Administrator or the Record Drawing Designer that the files have been submitted to the State Archives.



Record Drawing General Requirements

6.1 Record Drawing General Requirements

Below are general requirements for the preparation of the final record drawings. Most of these requirements are shown in the example set of record drawings in Appendix G.

- 1. The base or working set of record drawings will be a copy of the As-Bid plan set including all addenda that were available at bid opening.
- 2. The Record Drawing Information Block on the Face Sheet must be filled in completely including: (Also see Appendix C)

Constructed By:

Construction Company – The name of the Prime Contractor on the project (shown in red). **Completion Date** - Date the project was completed (shown in red).

Red-Lines By:

Construction Administrator – The name of the RE on the project (must be a PE and designated as an Engineer) (shown in red).

Completion Date – The date the RE submitted the plans to the Record Drawing Designer (shown in red).

Record Drawings By:

Record Drawing Designer – The name of the person reviewing the transfer of the field re-lines to the final record drawings (must be a PE and must be designated as an Engineer). This person is typically the primary Designer of Record on the as-bid set. The transferring of the field red-lines from the RE to the final record drawings can be done by anyone, but the review of the transferred red-lines must be performed by a PE (shown in red).

Completion Date – the date the record drawings were completed (shown in red).

All of the information that is provided in the Record Drawing Information Block needs to be shown in red. (See Appendix C)

3. Ensure that every sheet has been sealed, signed and dated by the Engineer of Record. The seals need to be clear and readable. This applies to additional sheets or sketches that have been added.

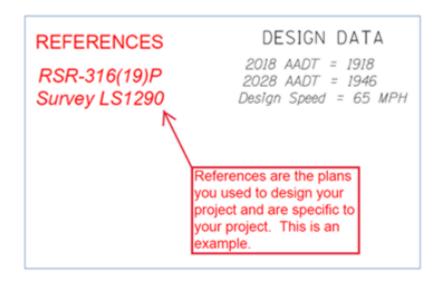


4. All Addenda need to be included in the final record drawing submittal. Because an addendum typically occurs prior to bid acceptance, these sheets and the addendum information can be, or is typically shown in black.

If the original sheet (prior to the addendum release) is available, this sheet can be included but an "X" must be drawn through the sheet indicating that the sheet was replaced with the new sheet. The new addendum sheet should be placed after the original "X'd" out sheet. The original sheet is not required as long as all of the addendum information is shown on the new addendum sheet. The "X" should not be so thick as to obscure any information on the plan sheet.

The Record Drawing Designer needs to check Workfront for any addenda or consult with the Project Manager and RE / Construction Administrator to ensure all of the addenda have been provided and are included in the final record drawing submittal.

5. If the record drawings do not show the "References" on the as-bid Design Sheet, the record drawings need to show all of the plans and or survey number that were used to develop / design the project. This information needs to be shown on the Design Sheet. If a Design Sheet is not included in the original as-bid plans the information should be shown on the Face sheet. The text size should be as close as possible to the other text on the Design Sheet (Typically for a 17"x11" sheet the PDF font height would be 10 and on a 34"x22" sheet the size would be 20). Below is an example of how this information should be shown.



6. Change orders that require that a new sealed plan sheet be developed during construction activities are developed as indicated in one of the two examples shown below:

To replace the existing as-bid sheet:

a. The new sheet is sealed, signed and dated.



- b. All information pertinent to the sheet needs to be copied to or incorporated in the new sheet from the as-bid sheet such as addendums.
- c. The original as-bid sheet that is being replaced needs to be included in the record drawings and a red "X" drawn from corner to corner.
- d. The changes on the new plan sheet and associated sheets need to be clouded in black.
- e. On the newly sealed change order sheet (and any additional associated sheets) that replace an existing sheet, identify each change order in the upper right corner of the sheet with "To Accompany Change Order No. XX".
- f. Add a triangle to each clouded change with the Change Order number in the triangle. Also, add a brief description of the change in the Revision Block.

(See Appendix G, Page 24 - 26 for an example)

Add a Change Order sheet to the project (not replacing an existing sheet):

- a. The new sheet to be added is sealed, signed and dated.
- b. The new sheet is inserted into the section of the plans based on type of work. (i.e. Roadway detail should go in the details section, traffic pavement marking should go in the pavement marking plans section)
- c. On the newly sealed change order sheet(s) (and all associated sheets) that are being added, identify each change order in the upper right corner of the sheet with "To Accompany Change Order No. XX". This can be done in black or red.
- d. Cloud the title block in the lower right corner and add a triangle to identify the change order with the change order number in the triangle. This must be done in red.

(See Appendix G, Page 15 for an example)

- 7. All field revisions to permanent construction shall be documented on the sheet where the change occurs and shown in red. These revisions include but are not limited to; geometrics, utilities, guardrail, striping, signing and permanent erosion control.
- 8. Change Order (CO) and Letter of Agreement (LOA) changes need to be identified on the record drawings and shown in red. (Except as noted in Chapter 6, Section 6.2, # 5) The change also needs to be clouded in red. Any added text associated with the change needs to be large enough to read (PDF font size of 10 for a 17"x11" sheet size and 20 for a 34"x22" sheet size works well).



- 9. Shop drawings that are unique in nature and are original Contractor submitted designs, shop drawings that change the design, Request for Information (RFI), Supplemental Agreements, etc. shall all be included in the final record drawings. All additional drawings must be sealed, signed and dated by a PE and include in the final record drawings preferably at the location where the additional information pertains or added at the end of the record drawing plan set.
- 10. Per the General Provisions in Section 16 of the ADOT Bridge Group Design Guidelines, available on the Bridge Group web page (see "References" on page 1-2), the following selected working drawings will become part of the final record drawings for permanent retention:
 - a. Post-tensioning details
 - b. Expansion Joint details (non-standard only)
 - c. Proprietary bearing details
 - d. Proprietary retaining wall details
 - e. Proprietary sound barrier wall details
 - f. Precast and stay-in-place deck panels
 - g. Other working drawings for atypical structures as specified in the special provisions
- 11. If the project includes a SWPPP sheet, Part 2 of the sheet needs to be completed if more than 1 acre was disturbed during construction. This information is provided by the RE / District Office. If after checking with the RE / District Office, the information is not available, then a red "X" needs to be drawn through only Part 2 of the sheet indicating that the RE / District did not have the information available.
- 12. Submittals that have the EPIC 1F Standard Sheet, shall require the RE to have added their name and signature on the sheet in Red. If the name and signature is not there, you may need to reach out to the RE and the Environmental Planner to see if it is required before we approve the record drawings. If the EPIC 1F sheet is not required there shall be supplemental documentation with the Environmental Planning division stating the reason sheet is not required.

Minor Revisions:

- Minor revisions can be hand drawn on the record drawings in red. If there are no red-lines or changes during construction, the record drawing sheet numbers, record drawing date and the information block on the face sheet can be hand drawn in red. Any hand drawn information needs to be neat, clear, readable and reproducible.
- The RE / Construction Administrator can add sketches that clarify or document new findings or field modifications that need to be recorded. If the sketches are done on a separate page, the new sheet needs to be sealed, signed and dated by the PE making the change in the field. The RE / Construction Administrator should ensure that the information is drawn in red and is neat, clear, readable and reproducible without leaving any extraneous data on the plans. All changes must also be clouded in red.



Major Revisions:

- If a sheet is being replaced by a revised sheet, the new revised sheet shall be sealed, signed and dated by the PE making the revision.
- The original as-bid sheet is not discarded. A red "X" must be drawn from corner to corner of the border. The line weight of the "X" must not obscure any information on the sheet. Never remove or cover any original values or details.
- If a single sheet is being revised several times with major changes, a new sheet may be required. If so, a red "X" must be drawn on the original sheet and all subsequent sheets until the last revised sheet is shown. The line weight of the "X" must not obscure any information on the sheet. All pertinent revisions must be transferred to the last revised sheet and all revisions shall be shown in red. (Except as noted in Chapter 6, Section 6.2, #5) Place sheets in order behind the original / subsequent sheets.

Never erase, remove or cover any original values or details.

- If there are resources available and depending on the method used to prepare the record drawings (See Chapter 3, Section 3.2 for Methods), the changes can be made using CADD or within the PDF document itself. Either way, the final PDF sheet must show the revisions in red. If CADD is used, this may require a special pen table to allow printing in color. All original features of the sheet should remain in black and only the revisions shall be shown in red.
- If there are not enough resources to prepare an electronic detail, and depending on which method was used to prepare the record drawings (See Chapter 3, Section 3.2 for Methods) the RE / Construction Administrator can create hand drawn sketches sealed, signed and dated by the PE.
- All revisions to the original as-bid plans shall be shown in red, clouded in red and if necessary numbered using triangles with a legend / description of changes (also shown in red). Record drawing sheet numbers in the lower right corner and the record drawing date shall be shown in red. The text needs to be large enough to read (PDF font size of 10 for a 17"x11" sheet size and 20 for a 34"x22" sheet size works well).
- 13. Added plan sheets shall be inserted within the appropriate section. Label the sheet with the sheet number and the next letter in the alpha designation sequence using upper case alpha letters (i.e. 18A, 18B, 18C, etc.). These should be shown in the upper right corner of the sheet.
- 14. The Technical Group or Consultant that was the lead for the design of the project, is also the lead for distributing the revisions received from the Project Manager and/or the RE / Construction Administrator. This should be coordinated before construction begins and a method of record drawing preparation should be decided on as outlined in Chapter 3, Section 3.2 (Methods). If the red-lines need to be distributed to the groups or Consultants that completed the work on the



original design, the lead for the design of the project shall contact the appropriate groups or persons to perform the work.

The lead for the design shall collect all of the PDF documents from each discipline and combine them into one PDF document. This document shall then be converted to a PDF/A prior to submittal to the Project Resource Office. The Project Resource Office does not coordinate the collection of the record drawing submittals from each discipline and does not accept partial submittals of record drawings.

15. Below is a general guidance checklist for items that are commonly overlooked during the record drawing plans creation and submittal process. This is also part of the Record Drawing Project Submittal Form. (See Appendix B)

□ All As-Bid sheets are included.

□ If required all Bridge Working Drawings are included.

 \Box Record Drawings are being submitted as a PDF/A.

 \Box If required Part 2 of the SWPPP sheet has been filled in or "X'd" out (if Part 2 was not used) and if there is one on the project.

Were there any Addendums on this project? (See Appendix G in the Record Drawing Guidelines – PDF page 49)

 \square No.

□ Yes, the addendum numbers ______ are included in the record drawings.

 \square All of the field red-lines shown on the plans are clouded and shown in red.

Were there any Change Orders or Supplemental Agreements on this project that changed the plans?

 \square No.

□ Yes, please list the Change Order(s) number (i.e. CO-4, LOA-1):____

□ All utility work (gas, water, CAP, electric, communications, irrigation, railroad, etc.) that was moved, added, or abandoned as part of the project are shown on the record drawings.

 \Box All of the information that the Contractor is required to provide has been shown in red on the record drawings. (i.e. record drawing

information for electrical items, pull box locations, etc.)

 \square All of the information in the "record drawing block" on the face sheet is completed and show in red.

□ The Construction Administrator's name and date, and the Record Drawing Designer's name and date are shown in red.



□ The Construction Administrator and Record Drawing Designer are designated as a PE.

- □ All of the drawings have the PE stamp and signature.
- □ All of the record drawing sheet numbers and dates are shown on each sheet in red.
- \Box The file size of each PDF/A file is below < 100 MB.
- □ The PDF/A file is unlocked and not password protected.
- □ The file name(s) are correct (i.e. H123401C_vol1(pgs1to18of18)RecDwgs-2016.pdf)
- □ The Environmental EPIC_Sheet 1F Has been completed with the Project Engineer name and signature. If no EPIC_Sheet 1F is required please provide reason:______ or

 $\hfill\square$ Supplemental documentation with Environmental Planning Division was submitted.

- 16. If there is more than one volume in a project set of plans, the Face Sheet and Standard Drawing Sheet (1A, 1B, 1C, 1D, 1E) needs to be included in the record drawings for each volume if they were provided as part of the original as-bid plans. This would also be where Record Drawing File Name would change to designate the next volume (See Chapter 6, Section 6.3, Record Drawing File Naming Convention). The sheets would be included in the total number of record drawing plans sheet numbers in successive order of the original as-bid plan set.
- 17. Projects that are done by special provisions only, have no plan sheets or are material only procurement projects must be submitted to the Project Resource Office using the "No-Plans" document. The No-Plans document is available on the Record Drawing Web Site. The No-Plans submittals go through the same process as a regular set of record drawings with regards review by the Project Resource Office and uploading the final No-Plans document to the ROAD portal. Notification is also sent to Field Reports to update the FAST Contract Card. Note that the No-Plans form needs to be submitted as a PDF/A document. This document is also sent to the State Archives.
- 18. Record drawings for projects that are identified or involve work related to Critical Structures are still completed and submitted as outlined in these guidelines, however the final record drawings are not uploaded to the ROAD portal by the Project Resource Office. Instead, a Critical Structures Notice is uploaded to the ROAD portal identifying the project as a critical structure project and access to the record drawings is required to go through the ADOT Safety and Risk Management Section. (See Appendix F)

6.2 Record Drawing Deliverables

1. The record drawings shall be submitted electronically in a PDF/A format with the following settings:



- The size of the drawings within the PDF document shall all be either 17" x 11" (also known as half size) or 34" x 22" (also known as full size). All drawings in the PDF document must be the same size.
- Any added text using Adobe needs to be large enough to read (PDF font size of 10 for a 17"x11" sheet size and 20 for a 34"x22" sheet size works well).
- The PDF document shall have no security on it. The PDF file needs to be unlocked and not password protected.
- The PDF document needs to be submitted as a PDF/A.
- 2. All record drawing submittals must be submitted electronically in PDF/A format.

PDF/A is a "standard being established to set guidelines for archiving and preserving digital documents in Portable Document Format (PDF) and will ensure the preservation of their contents over an extended period of time and will ensure that those documents can be retrieved and rendered with a consistent and predictable result in the future."

PDF/A frequently asked questions, an important notice regarding creating a PDF/A and instruction on how to create a PDF/A document are available on the Record Drawings Web Page.

- 3. The completed Record Drawing Project Submittal Form must be submitted along with the record drawing submittal. This form must be filled out completely and signed by the RE / Construction Administrator. The Record Drawing Project Submittal Form is available on the Record Drawing Web Page (example shown in Appendix B).
- The record drawings must follow the correct file naming convention outlined in Chapter 6, Section
 6.3 Record Drawing File Naming Convention.
- 5. The record drawing PDF file size should be limited to 100 MB (which is 100,000 KB). Larger projects will need to be broken up into smaller file sizes. File naming conventions should be followed (See Chapter 6, Section 6.3). This makes downloading the final record drawings quicker and easier to upload and retrieve from the ROAD portal.

PDF file size can be dramatically reduced by optimizing or reducing the file size from within Adobe Acrobat. If the file is optimized or reduced, please make sure none of the data such as red-lines are removed as part of the optimization process. PDF optimization and file reduction needs to occur prior to creating the final PDF/A document.

6. Record drawings can be submitted to the Project Resource Office several different ways.



NOTE: Record drawings must be submitted as a complete set of record drawings. We <u>do not</u> accept partial record drawing submittals. Please contact the Project Manager or the RE / Construction Administrator for any questions related to combining files into one final record drawing submission.

All record drawings must be submitted electronically to: <u>RecordDrawings@azdot.gov</u>

- If you are a Consultant, you can either email the pdf of the record drawings directly to ADOT, or send a link to the record drawings from either your company FTP site or through a file sharing application such as ShareFile. The files must be available for download for a minimum of 14 days from notification to ADOT that the files are ready to be downloaded.
- If you are an ADOT employee and you are either receiving files on behalf of a Consultant or if you are submitting files from a project you are working on, you can email the record drawing files or submit the files using the ADOT ShareFile.

ShareFile is available to ADOT employees as a method to transfer large files or files that are too large to send through email. The maximum message size for emails is 20 MB (includes message and any/all attachments). ShareFile has replaced the ADOT FTP site. To access ShareFile you will need to setup a ShareFile account by opening a Service Desk Ticket from Information Technology Group (ITG). This is done either through an email or calling the Help Desk.

For more information, please contact the Project Resource Office at: 602-712-7015.

7. The Project Resource Office will send a standard email response indicating that we have received the record drawings and will be reviewing them for conformity to the ADOT Record Drawing Guidelines. You will be notified once the drawings are accepted and approved by the Project Resource Office or if there are any changes that need to be made to the submitted drawings.

Depending on the complexity of the project (i.e. number of sheets) record drawings are typically reviewed by the Project Resource Office within 1 - 2 business days.

- 8. If there are any changes to the record drawing plans, the Project Resource Office will email the Record Drawing Designer and the RE / Construction Administrator indicating what changes are required. The Record Drawing Designer will coordinate any changes with the RE / Construction Administrator and re-submit the record drawings for a 2nd review. Depending on the complexity or number of changes required, the Record Drawing Designer should return the revised plans within 10 business days.
- 9. Upon approval of the final record drawing plans, the Project Resource Office will send an email to the RE / Construction Administrator, the Record Drawing Designer, Field Reports, MPD, Environmental, Final Voucher and the Project Manager indicating that the final record drawings have been accepted.



10. Field Reports sends out an email indicating the project has its final record drawings documented in the FAST Contract Card.

6.3 Record Drawing File Naming Convention

1. File Naming Convention: TRACS Number, Volume Number, Page Range, Record Drawings, - year construction was completed, File Extension. (Note, no spaces allowed in file names, use underscore or dash)

Example (Regular Plans, file size below 100 MB):

H542301C_vol1(pgs1to40of40)RecDwgs-2016.pdf

Example (Regular plans, file size above 100 MB, broken up into separate files <100 MB): H835401C_vol1(pgs1to75of150)RecDwgs-2017.pdf H835401C_vol1(pgs76to150of150)RecDwgs-2017.pdf (*Try to break by discipline*)

Note: Try to make the break between files occur where the project files change from one group to another (i.e. break between Roadway and Traffic Group sheets).

Some larger projects are broken up by volumes (volume 1, volume 2, etc.). The volume number should be designated in the file name if required (See Chapter 6, Section 6.1 # 13).

Example (Volumes):	H725101C_vol1(pgs1to175of980)RecDwgs-2015.pdf H725101C_vol1(pgs176to395of980)RecDwgs-2015.pdf H725101C_vol2(pgs396to752of980)RecDwgs-2015.pdf <i>(Volume Number Changes here)</i> H725101C_vol2(pgs753to980of980)RecDwgs-2015.pdf
Example (Shop Dwgs):	H835401C_vol1(pgs1to50of50)ShopDwgs-2017.pdf H835401C_vol2(pgs1to25of25)ShopDwgs-2017.pdf
Example (Large Set):	H922501C_vol1(pgs1to974of2980)RecDwgs-2016.pdf (Roadway sheets) H922501C_vol1(pgs975to1026of2980)RecDwgs-2016.pdf (Roadway sheets) H922501C_vol2(pgs1027to1089of2980)RecDwgs-2016.pdf (<i>Volume Number</i> <i>Changes</i>) H922501C_vol2(pgs1090to1100of2980)RecDwgs-2016.pdf (Traffic sheets) H922501C_vol2(pgs1101to1275of2980)RecDwgs-2016.pdf (Landscape sheets) H922501C_vol3(pgs1276to1395of2980)RecDwgs-2016.pdf (Irrigation sheets) H922501C_vol3(pgs1396to2752of2980)RecDwgs-2016.pdf (<i>Volume Number</i> <i>Changes</i>) H922501C_vol3(pgs2753to2980of2980)RecDwgs-2016.pdf (Bridge sheets)



Note in the "Large Set" the disciplines were broken out in addition to the volumes. When submitting a large project and you have the disciplines separated out, please identify each discipline and this will be added to the description in the ROAD portal.



CADD File Archiving Requirements

7.1 CADD File Archiving General Requirements

In order to ensure receipt of and to make our records complete, if the CADD files were not submitted as part of the delivery package at bid advertisement, ADOT requires that CADD files be submitted as part of the record drawing submittal process before the project can be closed. This is to ensure ADOT receives all CADD files associated with the project.

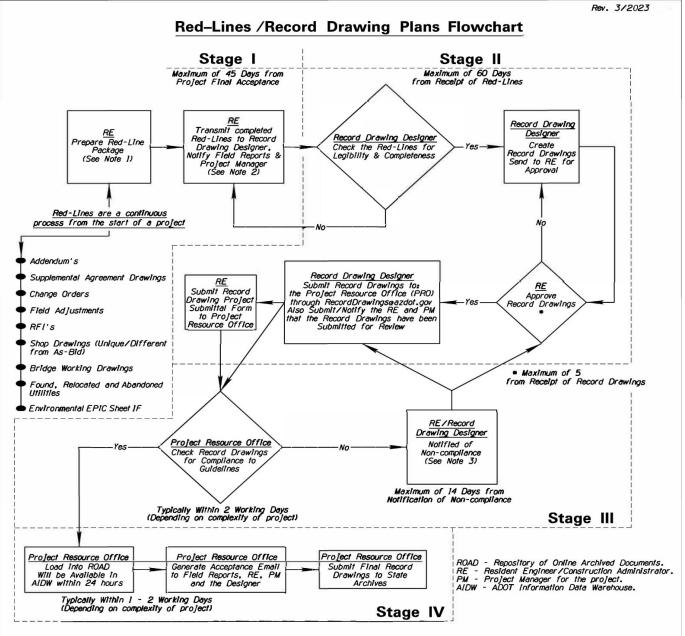
- CADD files shall be submitted in a Zip file.
- CADD files can be located in Workfront in the Documents folder typically under the Advertisement\Final CADD Files folder. If they are not, the Record Drawing Designer should reach out to each discipline for the CADD files and if possible place them into Workfront.
- Zip file size shall be less than 100MB. If the file size is larger than the 100MB size requirement, the CADD files need to be separated into smaller Zip files. If there is more than one Zip file, the files should be broken at either a specific discipline (Bridge, Roadway, Traffic, etc.) or at a specific consultant (Consultant 1, Consultant 2, etc.).
- The CADD file shall include the ADOT project number (TRACS number) and the words CADD_Files as shown below:

H123401C_CADD_File or by discipline if larger than 100MB... H345601C_CADD_Files_Bridge H345601C_CADD_Files_Traffic etc.

- The CADD file submittal must include all CADD files for the project from all disciplines and consultants submitted at one time. We do not receive partial submittals for CADD files.
- All CADD files for the project including dgn, dtm, alg, reference files, etc. must be included as part of the submittal.



<u> Appendix A: Flowchart</u>



NOTES:

- 1. The RE must coordinate the submittal format (see Methods in Guidelines) with the Record Drawing Designer and Project Manager. The RE, Record Drawing Designer and Project Manager must understand the requirements of the Record Drawing Guidelines and the Project Submittal Request Form checklist to ensure compliance to the Record Drawing Guidelines.
- 2. The "Information Block" on Face Sheet must be completed and submitted with Red-Lines and the Record Drawing Preparation Estimate to the Record Drawing Designer. The Record Drawing Preparation Estimate can be used as a tool to verify reasonableness of the designer's cost to prepare and submit Final Record Drawings.
- 3. The Project Resource Office will notify the Record Drawing Designer and RE if the Record Drawing Plans are not in conformance with the Record Drawing Guidelines. The RE/Record Drawing Designer have 2-weeks to revise the Record Drawing Plans and re-submit the them to the Project Resource Office for a 2nd review.
- 4. The RE or Record Drawing Designer can contact the Project Resource Office if additional time is required on the submission of Record Drawings at any step or stage of the development.



Appendix B: Project Submittal

RECORD DRAWING PROJECT SUBMITTAL FORM ARIZONA DEPARTMENT OF TRANSPORTATION Project Resource Office

This Record Drawing Project Submittal Form must be completed and submitted with all projects as part of the record drawing	s
submission process to ADOT.	

Record Drawings shall be submitted electronically to: RecordDrawings@azdot.gov

SUBMITTAL DATE:

PROJECT NUMBER:	ADOT PROJECT NUMBER:		
ROUTE:	COUNTY:	MILEPOST:	

PROJECT DESCRIPTION:

No.

BELOW IS A LIST OF ITEMS THAT NEED TO BE CHECKED AS PART OF THE RECORD DRAWING SUBMITTAL PROCESS

All As-Bid sheets are included.

If required all Bridge Working Drawings are included.

Record Drawings are being submitted as a PDF/A.

If required Part 2 of the SWPPP sheet has been filled in or "X'd" out (if Part 2 was not used) and if there is one on the project. Were

there any Addendums on this project? (See Appendix G in the Record Drawing Guidelines - PDF page 49)

No. Yes, the addendum numbers

All of the field red-lines shown on the plans are clouded and shown in red.

Were there any Change Orders or Supplemental Agreements on this project that changed the plans?

Yes, please list the Change Order(s) number (i.e. CO-4, LOA-1):_

All utility work (gas, water, CAP, electric, communications, irrigation, railroad, etc.) that was moved, added, or abandoned as part of the project are shown on the record drawings.

All of the information that the Contractor is required to provide has been shown in red on the record drawings. (i.e. record drawing information for electrical items, pull box locations, etc.)

All of the information in the "record drawing block" on the face sheet is completed and shown in red.

The Construction Administrator's name and date, and the Record Drawing Designer's name and date are shown in red.

The Construction Administrator and Record Drawing Designer are designated as a PE.

All of the drawings have the PE stamp and signature.

All of the Record Drawing sheet numbers and dates are shown on each sheet in red.

The file size of each PDF/A file is below ≤ 100 MB.

The PDF/A file is unlocked and not password protected.

The file name(s) are correct (i.e. H123401C_vol1(pgs1to18of18)RecDwgs-2016.pdf)

The Environmental EPIC_Sheet 1F - Has been completed with the Project Resident Engineer name and signature. If no EPIC_Sheet 1F is required please provide reason: _______ or Supplemental documentation with Environmental Planning division was submitted.

RECORD DRAWING CERTIFICATION

I HEREBY CERTIFY THAT THESE RECORD DRAWINGS WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Construction Administrator (RE, RLS) (Signature Required) Registration Number

Expiration Date

are included in the Record Drawings.

Printed Name

Rev. 4/2023



Appendix C: Face Sheet Information Block

Constructed by:



Finest Contractor LLC Construction Company

5/10/2015 Completion Date

Red-Lines by:

John Cambora, PE - ADOT

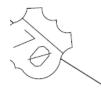
Construction Administrator Name & Company

7/4/2015 Completion Date

Record Drawings by:

Mike Davis, PE - Greatest Consulting LLC

Record Drawings Designer Name & Company



8/12/2015

Completion Date



Appendix D: Record Drawing Preparation Estimate

	Arizona Department	of Tra	nsport	ation			
	Record Drawings Pre						
				-			
Project Number:					TRACS No.		
Resident Engineer's name:					Date:		
				Numb	Estimated	Total	Total
Enter you	r data in all yellow fields		Unit	er		estimated	Estimated
	CHANGE THESE FIELDS			of sets	minutes/sheet	minutes	Hours
Number of sheets in plan set			sheets				
	isions (no redlines) but include checking of		sheets		1.00	(
seal and signature (1 min/sh			0110010		1.00	, in the second se	
(*) Number of sheets with lim min/sheet).	ited revisions (minor edit redline changes) (15		sheets		15.00	() C
(*) Number of sheets with ext either recreated or edited) (40	tensive revisions (some drawings need to be) min/sheet)		sheets		40.00	() (
Number of extra sheets to co	onfirm that all pages are signed (1 min/sheet)		sheets		1.00	() (
Administration (contract estin	mate, QC etc)						1
					Total Proje	ect Hours =	1
					Equivalent to	(min/sheet) =	#DIV/0!
(*) Note: Some major chan	ges may need more time to re-draw some d	letails.					
If that is the situation in ye	our project then add 5 to 10% total hours or						
-	tatewide Project Management Specialist						



Appendix E: "No-Plans" Document

RECORD DRAWING – "NO-PLANS" CONSTRUCTION UNIT INFORMATION

** PROJECT NUMBER:	** TRACS NUMBER:				
* ROUTE:	TE: * COUNTY:				
* BEGIN MILEPOST: * END MILEP	POST:				
** CONTRACTOR:					
* BEGIN DATE:					
* COMPLETION DATE:					
* BID AMOUNT: \$					
* FINAL AMOUNT: \$					
** ANY ADDITIONAL CHANGE ORDERS?	N				
** BRIEF DESCRIPTION OF CHANGE ORDERS: _					
** NAME OF OFFICE CONTACT:					
** PHONE NUMBER:	** PHONE NUMBER:				
** RESIDENT ENGINEER'S NAME (Printed):					
** RESIDENT ENGINEER'S SIGNATURE:					
** DATE:					
* UNIT COMMENTS:					
* PROJECT RESOURCE OFFICE COMMENTS:					
** PROJECT RESOURCE APPROVAL DATE:	** APPROVED BY INITIALS:				
Please submit completed form to: <u>RecordDrawin</u>	ngs@azdot.gov				
Contact Phone: 602-712-7015					
 * USEFUL Information on Field Redline Submittals. ** REQUIRED Information on <u>"ALL"</u> Field Redlines Submittals. 					

Rev. 07/2017



Appendix F: Critical Structures Notice



Infrastructure Delivery and Operations

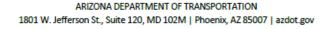
Douglas A. Ducey, Governor John S. Halikowski, Director Dallas Hammit, State Engineer Steve Boschen, Division Director

NOTICE

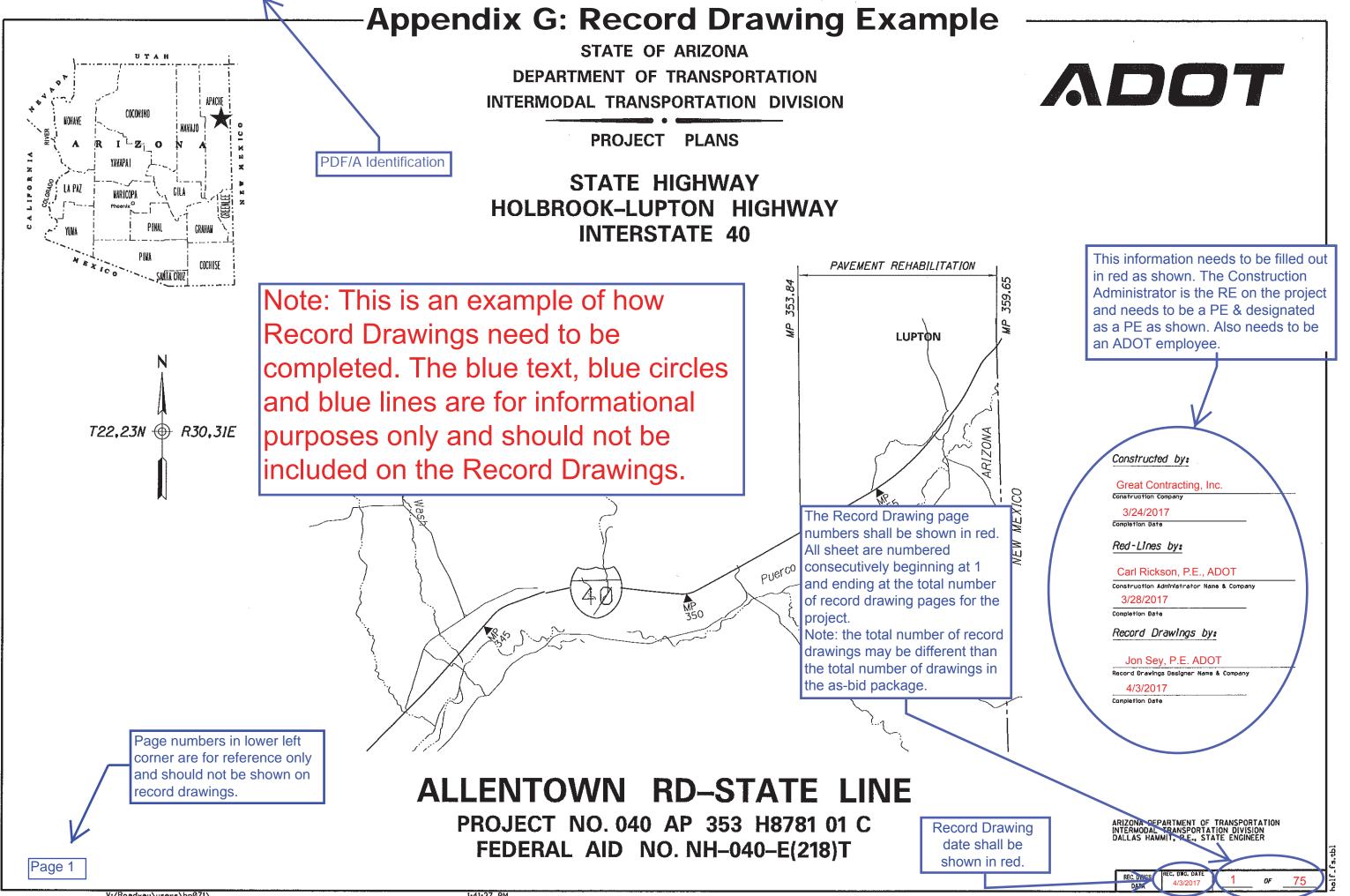
Pursuant to measures taken through the Federal Homeland Security Act of 2002, this project has been identified as a "Critical Structure" and access must be requested through the ADOT Office of Safety & Risk Management Section.

The Public Records Requests Form is available at: https://www.azdot.gov/media

Thank you.



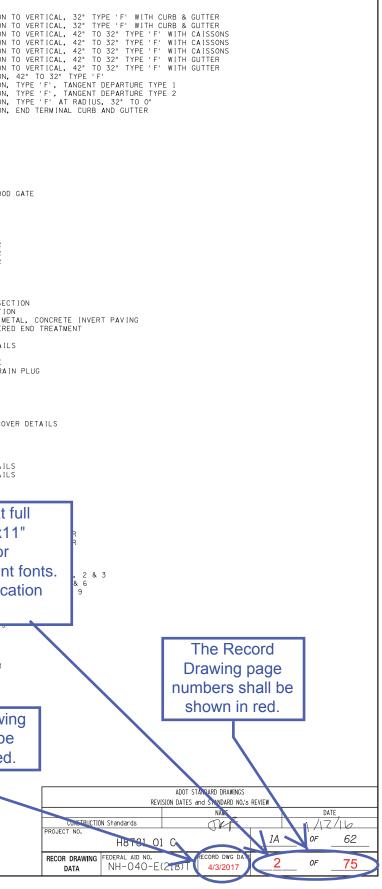




ADOT STANDARD DRAWINGS C STANDARDS

ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT CONSTRUCTION	ISSUE OR REVISION DATE	STANDARD NO.	SUBJECT <u>CONSTRUCTION</u>
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	C-01.10 SH 1 C-01.10 SH 2 C-01.10 SH 3 C-01.10 SH 4 C-01.30 SH 1 C-01.30 SH 2 C-01.30 SH 3 C-02.10 C-02.20 C-02.30 C-03.10 SH 1	SYMBOL LEGEND SYMBOL LEGEND SYMBOL LEGEND GENERAL ABBREVIATIONS GENERAL ABBREVIATIONS GENERAL ABBREVIATIONS SLOPES, RURAL DIVIDED HIGHWAYS SLOPES, RURAL DIVIDED AND FRINGE-URBAN HIGHWAYS SLOPES, RURAL UNDIVIDED AND FRINGE-URBAN HIGHWAYS SLOPES, MISCELLANEOUS ROADWAYS DITCHES, CHANNELS, DIKES AND BERMS, DITCHES AND CHANNELS	5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	$\begin{array}{ccccc} C-10.\ 71 & \text{SH} \ 1 \\ C-10.\ 71 & \text{SH} \ 2 \\ C-10.\ 72 & \text{SH} \ 1 \\ C-10.\ 72 & \text{SH} \ 3 \\ C-10.\ 72 & \text{SH} \ 3 \\ C-10.\ 73 & \text{SH} \ 1 \\ C-10.\ 73 & \text{SH} \ 1 \\ C-10.\ 74 & \text{C-}10.\ 75 & \text{SH} \ 1 \\ C-10.\ 75 & \text{SH} \ 2 \\ C-10.\ 76 & \text{C-}10.\ 76 \end{array}$	CONCRETE HALF-BARRIER TRANSITION TO CONCRETE HALF-BARRIER TRANSITION, 4 CONCRETE HALF-BARRIER TRANSITION, 4 CONCRETE HALF-BARRIER TRANSITION, T CONCRETE HALF-BARRIER TRANSITION, T CONCRETE HALF-BARRIER TRANSITION, T CONCRETE HALF-BARRIER TRANSITION, T
5/12 5/12 5/12 5/12 5/12 5/12	C-03.10 SH 2 C-03.10 SH 3 C-03.10 SH 3 C-03.10 SH 4 C-03.10 SH 5	DITCHES, CHANNELS, DIRES AND BERMS, DIRES DITCHES, CHANNELS, DIRES AND BERMS, DITCH DIRE DITCHES, CHANNELS, DIRES AND BERMS, PIPE BERMS DITCHES, CHANNELS, DIRES AND BERMS, HEADWALL BERMS SPILLWAY, EMBANKMENT SINGLE INLET	5/12 5/12 5/12 5/12 5/12 5/12	C-11.10 SH 1 C-11.10 SH 2 C-11.10 SH 3 C-11.10 SH 4 C-11.20	ROADWAY CATTLE GUARD ROADWAY CATTLE GUARD ROADWAY CATTLE GUARD ROADWAY CATTLE GUARD CATTLE GUARD, DRAINAGE
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	C-04.10 SH 2 C-04.20 SH 1 C-04.20 SH 2 C-04.30 C-04.40 C-04.50 C-05.10 C-05.12 SH 1 C-05.12 SH 2 C-05.12 SH 3	SPILLWAY, EMBANKWENT DOUBLE INLET DOWNDRAIN, EMBANKWENT DOUBLE INLET DOWNDRAIN, EMBANKWENT DOUBLE INLET SPILLWAY LENGTH TABLE DOWNDRAIN ENERGY DISSIPATOR CURB & GUTTER, CURB, GUTTER CURB & GUTTER TRANSITIONS CURB & GUTTER TRANSITIONS CURB & GUTTER TRANSITIONS	5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	$\begin{array}{cccc} C-12.10 & SH & 1\\ C-12.10 & SH & 2\\ C-12.10 & SH & 3\\ C-12.10 & SH & 4\\ C-12.10 & SH & 5\\ C-12.20 & SH & 1\\ C-12.20 & SH & 2\\ C-12.20 & SH & 3\\ C-12.30 & SH & 1\\ C-12.30 & SH & 2\\ C-12.30 & SH & 3\\ \end{array}$	FENCE, WOVEN WIRE FENCE, BARBED WIRE FENCE, TYPES 1 AND 2 GATES, FLOOD G FENCE, FLOOD GATE INSTALLATION FENCE, MISCELLANEOUS DETAILS FENCE, CHAIN LINK, TYPE 1 FENCE, CHAIN LINK, GATES FENCE, CHAIN LINK, GATES FENCE, CHAIN LINK CABLE BARRIER FENCE, CHAIN LINK CABLE BARRIER FENCE, CHAIN LINK CABLE BARRIER FENCE, CHAIN LINK CABLE BARRIER
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	$\begin{array}{ccccc} C-05.20 & SH & 1 \\ C-05.20 & SH & 2 \\ C-05.30 & SH & 2 \\ C-05.30 & SH & 3 \\ C-05.30 & SH & 3 \\ C-05.30 & SH & 3 \\ C-05.30 & SH & 5 \\ C-05.30 & SH & 6 \\ C-05.30 & SH & 7 \\ C-05.40 & C-05.50 \\ \end{array}$	CONCRETE DRIVEWAYS & SIDEWALKS, DRIVEWAYS CONCRETE DRIVEWAYS & SIDEWALKS, SIDEWALKS SIDEWALK RAMP, TYPE B SIDEWALK RAMP, TYPE C SIDEWALK RAMP, TYPE D SIDEWALK RAMP, TYPE F SIDEWALK RAMP, TYPE F SIDEWALK RAMP, DETECTABLE WARNING STRIP MEDIAN PAVING AND NOSE TAPER CONCRETE BUS BAY	5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	C-13.10 SH 1 C-13.10 SH 2 C-13.15 C-13.25 C-13.25 C-13.30 C-13.55 C-13.65 C-13.65 C-13.75	PIPE CULVERT INSTALLATION PIPE CULVERT INSTALLATION TYPICAL PIPE INSTALLATION PIPE, REINFORCED CONCRETE END SECTI PIPE, CORRUGATED METAL END SECTION PIPE AND PIPE ARCH, CORRUGATED META PIPE, CATTLE-VEHICLE PASS, MITERED SLOTTED DRAIN DETAILS SLOTTED DRAIN DETAILS STORM DRAIN CONNECTION DETAILS STORM DRAIN CONNECTION DETAILS
5/12 5/12 5/12	C-06.10 SH 1 C-06.10 SH 2 C-07.01 SH 1	DRIVEWAY & TURNOUT LAYOUTS DRIVEWAY & TURNOUT LAYOUTS PCCP JOINTS RCCP JOINTS	5/12 5/12 5/12	C-13.75 C-13.76 C-13.80	STORM DRAIN OUTET AND STORM DRAIN PIPE COLLAR DETAILS
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	$\begin{array}{cccc} C-07.01 & \text{SH 2} \\ C-07.02 & \text{SH 1} \\ C-07.03 & \text{SH 2} \\ C-07.03 & \text{SH 3} & \text{2} \\ C-07.03 & \text{SH 3} & \text{4} \\ C-07.03 & \text{SH 4} \\ C-07.03 & \text{SH 5} & \text{5} \\ C-07.03 & \text{SH 6} & \text{5} \\ C-07.03 & \text{SH 7} & \text{5} \\ C-07.04 & \text{SH 1} & \text{1} \\ C-07.04 & \text{SH 2} & \text{5} \\ C-07.04 & \text{SH 3} & \text{5} \\ C-07.04 & \text{SH 4} & \text{5} \\ C-07.04 & \text{SH 3} & \text{5} \\ C-07.04 & \text{SH 3} & \text{5} \\ C-07.04 & \text{SH 4} & \text{5} \\ C-08.20 & \text{C-10.00} \\ C-10.00 & \text{C-10.03} & \text{C-10.04} \\ C-10.05 & \text{SH 1} \\ C-10.05 & \text{SH 1} \\ C-10.06 & \text{SH 1} \\ \end{array}$	PCCP JOINTS LOAD TRANSFER DOWEL ASSEMBLY PCCP JOINT LOCATIONS, MAINLINE SKEWED JOINTS PCCP JOINT LOCATIONS, MAINLINE NON-SKEWED JOINTS PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP WITH AUXILIARY LANE PCCP JOINT LOCATIONS, PARALLEL TYPE ENTRANCE RAMP PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP PCCP JOINT LOCATIONS, TAPER TYPE ENTRANCE RAMP PCCP JOINT LOCATIONS, CROSSROAD AND RAMP TERMINI TRENCH BACKFILL AND PAVEMENT REPLACEMENT PAVED GORE AREA GUARDRAIL MEASUREMENT LIMITS GUARDRAIL INSTALLATION, TYPE A AND REFLECTOR TAB GUARDRAIL INSTALLATION, TYPE B AND REFLECTOR TAB W-BEAM GUARDRAIL, G4(1W) AND G4(2W), BLOCKED-OUT TIMBER POST W-BEAM GUARDRAIL, G4(1W) AND G4(2W), GLOCKED-OUT TIMBER POST W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER W-BEAM GUARDRAIL, NESTEL, TYPE FURTH AND GUTTER W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER W-BEAM GUARDRAIL, NESTEL, TYPE FURTH AND GUTTER W-BEAM GUARDRAIL, G4(MODIFIED) WITH FREEWAY CURB AND GUTTER	5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	$\begin{array}{ccccc} c-15, 20 & \text{SH 1} \\ c-15, 20 & \text{SH 2} \\ c-15, 30 \\ c-15, 40 & \text{SH 2} \\ c-15, 40 & \text{SH 1} \\ c-15, 40 & \text{SH 2} \\ c-15, 70 \\ c-15, 91 \\ c-15, 91 \\ c-15, 92 \\ c-16, 40 \\ c-17, 10 \\ c-17, 15 \\ c-17, 10 \\ c-18, 10 \\ c-18, 10 \\ c-18, 10 \\ c-18, 10 \\ c-18 \\ c-10 \\ c-$	CATCH BASIN. TYPE 3 CATCH BASIN. TYPE 3 CATCH BASIN. TYPE 3 CATCH BASIN. TYPE 4 CATCH BASIN. TYPE 5 CATCH BASIN. TYPE 5 CATCH BASIN. FRAME AND GRATE CATCH BASIN. FRAME AND GRATE CATCH BASIN. MISCELLANEOUS DETAILS CATCH BASIN. MISCELLANEOUS DETAILS CATCH BASIN. DROP INLET CATCH BASIN. SIDE SLOPE Should be readable at fu nts of sheet. For 17"x11 ets use 10 point and for C22" sheets use 20 point for the text in the correct locat uniform.
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	C-10.06 SH 2 C-10.07 SH 1 C-10.07 SH 2 C-10.08 C-10.20 C-10.30 SH 1 C-10.30 SH 2 C-10.41	W-BEAM GUARDRAIL, NESTED, TYPE 3 W-BEAM GUARDRAIL, BOLTED ANCHOR W-BEAM GUARDRAIL, BOLTED ANCHOR W-BEAM GUARDRAIL, END ANCHOR THRIE-BEAM GUARDRAIL, C9, BLOCKED-OUT STEEL POST GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32° TYPE 'F' GUARDRAIL TRANSITION, THRIE BEAM TO CONCRETE HALF BARRIER, 32° TYPE 'F' CONCRETE MEDIAN BARRIER, 32° TYPE 'F', CAST-IN-PLACE CONCRETE MEDIAN BARRIER, 42° TYPE 'F', CAST-IN-PLACE GLARE SCREEN, CONCRETE MEDIAN BARRIER GLARE SCREEN, CONCRETE MEDIAN BARRIER GLARE SCREEN, CONCRETE MEDIAN BARRIER	5/12 5/12 5/12 5/12 5/12 5/12	C-18.10 SH 1 C-19.10 SH 1 C-19.10 SH 2 C-21.10 C-21.20	FORD, CONCRETE WALLS FORD, TYPES I AND 2 SURVEY MONUMENT FRAME AND COVER SURVEY MARKER
5/12 5/12 5/12 5/12 5/12 5/12 5/12 5/12	C-10.42 SH 1 C-10.42 SH 3 C-10.42 SH 3 C-10.50 SH 1 C-10.50 SH 2 C-10.51 C-10.53 C-10.54 SH 2 C-10.54 SH 1 C-10.54 SH 3 C-10.54 SH 3 C-10.55 SH 3 C-10.55 SH 3 C-10.55 SH 3 C-10.70 SH 3 C-10.70 SH 3	GLARE SCREEN, CONCRETE MEDIAN BARRIER GLARE SCREEN, CONCRETE MEDIAN BARRIER GLARE SCREEN, CONCRETE MEDIAN BARRIER GLARE SCREEN, CONCRETE MEDIAN BARRIER CONCRETE HALF BARRIER, 32" TYPE 'F', CAST-IN-PLACE CONCRETE HALF BARRIER, 32" TYPE 'F' WITH SIDEWALK CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER CONCRETE HALF BARRIER, 32" TYPE 'F' WITH GUTTER CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, CAST-IN-PLACE CONCRETE HALF BARRIER, 32" TYPE 'F' AT PIERS, LAYOUT CONCRETE HALF BARRIER, 42" TYPE 'F' AT PIERS, LAYOUT CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS CONCRETE HALF-BARRIER TRANSITION TO VERTICAL, 32" TYPE 'F' WITH CAISSONS			Record Drawing date shall be shown in red.
Page 2					

1/12/2016



ADOT STANDARD DRAWINGS

TRAFFIC SIGNING & MARKING STANDARDS (SHEET 1 OF 2) EFFECTIVE MAY 2015

		EFFECTIVE MAT	2015		
		SUBJECT:			SUBJEC
REVISION	STANDARD	SIGNING & MARKING DETAILS	REVISION	STANDARD	SIGNING & MARK
6/14	M-1	CURB MARKINGS FOR RAISED MEDIAN AND ISLANDS	6/14 6/14	M-20 SHT 1 M-20 SHT 2	CHIP SEAL MARKER U CHIP SEAL MARKER U
6/14 5/15	M-2 SHT 1 M-2 SHT 2	INTERSECTION STRIPING INTERSECTION STRIPING (TWO-LANE RURAL)	6/14	M-21	TRANSVERSE RUMBLE
6/14	M-2 SHT 3	CENTERLINE & REVERSE CURVE DETAILS	6/14	M-22 SHT 1	LONGITUDINAL RUMBL
6/14	M-3	STRIPING AND DELINEATION FOR FREEWAY TERMINALS	6/14	M-22 SHT 2	AND LOCATION DETA LONGITUDINAL RUMBL
6/14	M-4	PASSING LANE STRIPING DETAILS	6/14	M-22 SHT 3	CENTERLINE RUMBLE AND LOCATION DETA
6/14	M-5	RAILROAD PAVEMENT MARKINGS	6/14	M-23	
6/14	M-6	WORD MARKINGS	6714		OBJECT MARKER DET
6/14	M-7	PAVEMENT LETTERS	6/14	M-24	OBJECT MARKER PLA
			6/14	M-26 SHT 1	DELINEATOR PLACEM
6/14	M-8	PAVEMENT LETTERS	6/14	M-26 SHT 2	DELINEATOR PLACEM
6/14			6/14	M-26 SHT 3	FLEXIBLE DELINEATO
	M-9	PAVEMENT NUMBERS	6/14	M-26 SHT 4	SQUARE STEEL POST
C (14			6/14	M-26 SHT 5	DELINEATOR FOUNDA
6/14 6/14	M-10 SHT 1 M-10 SHT 2	PAVEMENT MARKING SYMBOLS PAVEMENT MARKING SYMBOLS	6/14	M-27	DELINEATION DETAILS
6/14	M-11	TURN LANE PAVEMENT MARKINGS	6/14	M-29	OFF-MAINLINE REFER
6/14	M-12	WRONG-WAY ARROWS	6/14	M-30	OFF-MAINLINE REFER
6/14	M-13	PREFERENTIAL LANE PAVEMENT MARKINGS	6/14	M-32	BRIDGE AND BARRIER
6/14	M-14	STRIPING AND DELINEATION FOR TRUCK ESCAPE RAMPS	6/14	M-33	BRIDGE & BARRIER M
6/14	M-15 SHT 1	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - TAPERED ACCELERATION LANE	6/14	M-34	GUARDRAIL END TERM
6/14	M-15 SHT 2	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE	6/14	M-35	OBJECT MARKER FOR
6/14	M-15 SHT 3	PAVEMENT MARKING FOR FREEWAY ENTRANCE RAMP - PARALLEL ACCELERATION LANE WITH HOV BYPASS			
6/14	M-15 SHT 4	PAVEMENT MARKING FOR FREEWAY PARALLEL - Acceleration lane			
6/14	M-16 SHT 1	PAVEMENT MARKING FOR FREEWAY EXIT RAMPS -			
6/14	M-16 SHT 2	TAPERED DECELERATION LANE PAVEMENT MARKING FOR FREEWAY EXIT RAMP -			Note: T several
		PARALLEL DECELERATION LANE			
5/15	M-17	FREEWAY LANE DROP PAVEMENT MARKINGS			be omit exampl
6/14	M-18	RECESSED PAVEMENT MARKER DETAILS			file size
6/14	M-19 SHT 1	RAISED PAVEMENT MARKER PLAN LEGEND			redund
6/14	M-19 SHT 2	NON-REFLECTIVE RAISED PAVEMENT MARKER DETAILS			informa
6/14	M-19 SHT 3	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS			Informe
6/14	M-19 SHT 4	RETROREFLECTIVE RAISED PAVEMENT MARKER DETAILS			
5/15	M-19 SHT 5	PAVEMENT MARKING DETAILS FOR UNDIVIDED HIGHWAYS			
6/14	M-19 SHT 6	RETROREFLECTIVE RAISED PAVEMENT MARKERS			
		(RPM) FOR UNDIVIDED HIGHWAYS			
6/14 5/15 6/14	M-19 SHT 7 M-19 SHT 8 M-19 SHT 9	FREEWAY AND DIVIDED HIGHWAY EDGE LINE AND LANE STRIPING LANE DROP MARKING AND RAMP OR INTERSECTION GUIDE STRIPING RAVEMENT MARKING CROSS SECTION DETAILS FOR UICHWAYS AND FREEWAYS			
0714	ڭ ۱۱۱، <u>7</u> ۱۷۱	PAVEMENT MARKING CROSS-SECTION DETAILS FOR HIGHWAYS AND FREEWAYS			

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KING DETAILS	
USAGE FOR TEMPORARY MARKERS USAGE FOR TEMPORARY MARKERS	
e strip details	
BLE STRIP GROOVE, PATTERN - AILS BLE STRIP EXCEPTION DETAILS E STRIP GROOVE, PATTERN - AILS	
TAILS	
ACEMENT DETAILS	
MENT AND SPACING MENT AND SPACING OR ASSEMBLIES IT DELINEATOR ATION DETAILS	
LS FOR MEDIAN CROSSOVERS	
RENCE MARKER LOCATION DETAIL	
RENCE MARKER DETAILS	
R MARKER DETAILS	
MARKER PLACEMENT AND INSTALLATION	DETAILS
RMINAL DELINEATION DETAILS	
R SAND BARREL CRASH CUSHION	
The next al sheets will	
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ble to reduce	
e and dancy of	
action.	
ADOT STANDARD DRAWING REWSION DATES and STANDARD NO NAME	
SIGNING & MARKING STANDARDS	
H8781 O1 C	
DATA NH-040-E(218) 4/3/2017	<u>3</u> ^{OF} <u>75</u>

. SPILL PREVENTION, CONTROL, AND COUNTERMEASURES - CWA SECTION 311

If total above-ground storage capacity, including mobile re-fuelers stationed on-site, is greater than 1,320 gallons of oil (oils, greases, fuel, asphalt, and asphalt derivatives), where a spill has the potential to reach Waters of the US, the Contractor shall prepare a SPCC plan in accordance with the requirements of subsection 104.16 of the specifications.

2. SURFACE WATER POLLUTION PREVENTION – CWA SECTION 402

No CWA Section 402 Construction General Permit (CGP) Action Required; See Std. Spec. 104.09 and 104.10 for General Requirements

B. WORK IN WATERS OF THE UNITED STATES - CWA SECTION 404/401

No Permit Required; See Std. Spec. 104.16 for General Requirements

4. BIOLOGY PROGRAM – ESA SECTION 7; MBTA, ARIZONA REVISED STATUTES TITLE 17

BIO-1: Environmental Awareness, Monitoring and Avoidance V/A

BIO-2: Migratory Bird Treaty Act (MBTA) 🔽 N/A

The Contractor shall avoid, and not harm or harass any migratory birds or their nests during the breeding season.

BIO-2D: MBTA – cliff swallows nesting in the project area 🗹 N/A

BIO-3: Burrowing Owls

<u>N/A</u>

BIO-4: Bats N/A

5. VEGETATION PROTECTION PROGRAM

General (applies to all projects); Std. Spec. 104.16 for Vegetation Protection Program. The contractor shall provide a letter to the Engineer at the preconstruction conference certifying that the contractor shall comply with the requirements to prevent the spread of invasive species seeds.

No Vegetation Protection Program Action Required; See Std. Spec. 107.11 for General Requirements

6. CULTURAL RESOURCES PROGRAM – SECTION 106

No Cultural Resources Program Action Required for Existing Infrastructure; See Std. Spec. 107.05 and 107.06 for General Requirements

7. HAZARDOUS MATERIALS PROGRAM

General (applies to all projects); Std. Spec. 107.07 for General OSHA Requirements.

No Hazardous Materials Program Action Required

Is Asbestos Removal and Containment Plan Needed? oxtimes No \Box Yes

Refer to Project Environmental Commitments in Special Provisions for Asbestos Containing Material information and contact ADOT Hazardous Materials Specialist.

Is an NESHAP notice required? 🛛 No

No 🗆 Yes

If yes, coordination with the ADOT Hazardous Materials Specialist is required and the NESHAP notification shall be submitted at least ten (10) business days prior to initiation of construction activities to: <u>Choose an</u> item.

Lead-based paint present? Vo 🗆 Yes, Lead Based Paint Abatement Plan needed

Refer to Project Environmental Commitments in Special Provisions for Lead Based Paint information and contact ADOT Hazardous Materials Specialist.

8. NOISE PROGRAM

No Noise Program Specific Project Action Required; See Std. Spec. 104.08 for General Requirements

9. AIR QUALITY PROGRAM

No Air Quality Program Action Required; See Std. Spec. 104.08 for General Requirements

10. OTHER ENVIRONMENTAL ISSUES

Project Specific Environmental Commitments: N/A

- For milling activities, the roadway surface preceding the milling machine shall be kept sufficiently wet so as to prevent the generation of any visible fugitive dust particles, but no so wet as to cause runoff from the roadway surface into the roadway shoulder.
- If vegetation clearing will occur during the migratory bird breeding season (March 1-August 31), the contractor shall avoid any active bird nests. If the active bird nests cannot be avoided, the contractor shall notify the Engineer to evaluate the situation. During the non-breeding season (September 1-February 28) vegetation removal is not subject to this restriction.

Environmental Planner Name
Environmental Planner Signature Date
FEDERAL ID NO.

TRACS NO.

Project Name

Arizon	Arizona Department of Transportation Environmental Planning Standard Template							
	Environmental, Permits, Issues, And Commitments (EPIC) Sheet							
al Ie	Tatum Wertin	R.E. Name	John Do	w				
al		R.E. Signature	1					
te	///// Winter 1/6/2023		John	Dow				
NO.	A89-A(212)T		0					
5 NO.	89A YV 353 F0443 01C		signature, the R.I oject has been sat					
lame	Main St. – River Ave.				Sheet 1F			
			REC. DWG. DATE 4/3/2017	4	of 75			

MIDPOINT OF PROJECT

Eastern Zone State Plane Coordinates

> X =829.000 Y=1,581,000

REFERENCES

I-40-5 (42) I-40-5 (8) I-40-5 (29) STP-40-5(90) 1-40-5-504 1M-04D-E(211)A 1M-40-5(102)P

DESIGN DATA

2016 AADT = 19.2002026 AADT = 23,800 Design Speed = 75 MPH

LOOP DETECTOR / CLASSIFIER SYSTEMS							
Std T.S. 6-1 Type C = Traffic Counter							
570 1.5. 6-2	Std T.S. 6-2 Type SA or SB = Speed and Vehicle Class						
Systems	Туре	Approximate Location					
1 *	С	MP 357.1 EB & WB					
1 *	С	MP 357.9 EB & WB					

* Partial Replacement

Notes:

1. Depth of sawcut shall be 4"

2. Contractor shall install loops prior to AR-ACFC placement

LENGTH OF PROJECT

Westbound 😜

Beg Proj Sta 2569+44.00 to 2723+38.10 BK = 15,394.10' Sta 2723+58.10 AHD to 2803+11.28 BK = 7,953.18' Sta 2803+22.63 AHD to 2850+56.84 BK = 4,734.21 Sta 2850+37.77 AHD to 2871+13.04 BK = 2,075.27' Sta 2871+29.03 AHD to End Proj 2876+60.28 = 531.25'

Westbound Net Length = 30,688.01' = 5.81 miles Mile Post 353.84 to 359.65

Eastbound Θ

Beg Proj Sta 2569+44.00 to 2723+78.22 BK = 15,434.22' Sta 2723+58.16 AHD to 2803+33.99 BK = 7,975.83' Sta 2803+22.63 AHD to 2850+18.70 BK = 4,696.07' Sta 2850+37.77 AHD to 2871+45.02 BK = 2,107.25' Sta 2871+29.03 AHD to End Proj 2874+89.23 = 360.20'

Eastbound Net Length = 30,573.57' = 5.79 miles Mile Post 353.84 to 359.63

 \bigcirc Station Limits include all structures within the limits of the project.

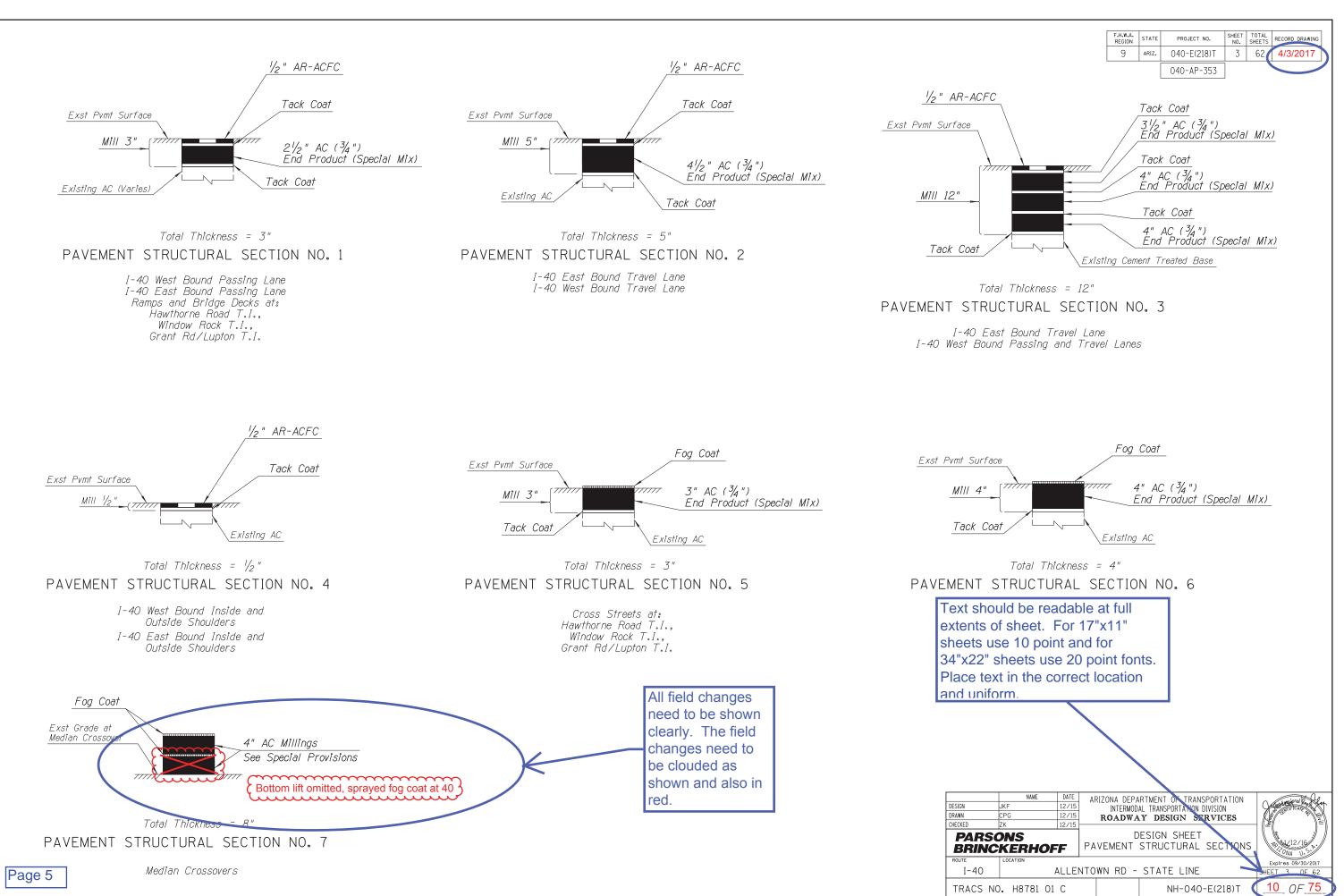
Hawthorne TI Bridge: MP 354.61 to MP 354.62 Window Rock TI Bridge: MP 357.53 to MP 357.54 Lupton/Grants TI Bridge: MP 359.20 to MP 359.21

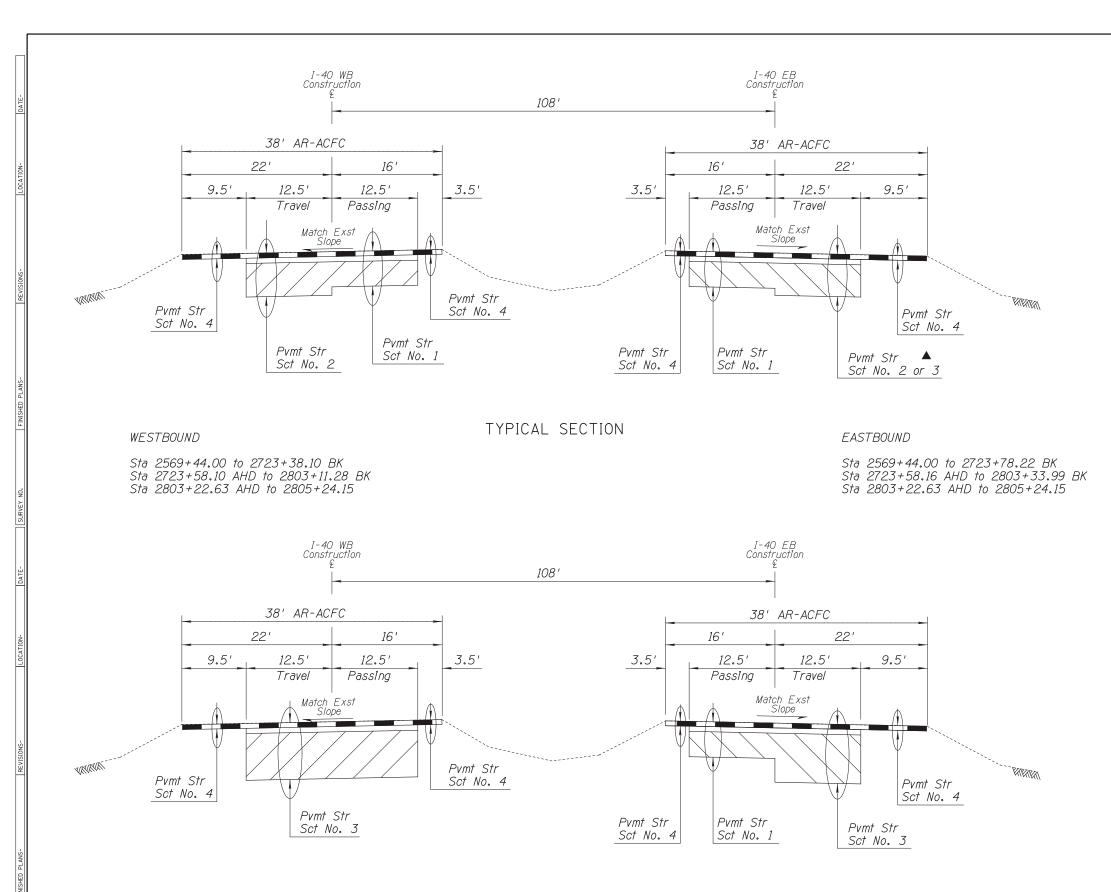
INDEX OF SHEETS

DWG No. Sheet Type 1 Face Sheet 1A,1B-1,1B-2,1C-1,1C-2,1D,1E ADOT Standard Drawings Design Sheets 2-8 9-12 Barrier Summary Sheets 13-19 Detail Sheets Plan Sheets 20-28 Traffic Control Sheets 29-37 Pavement Marking Sheet 38 Erosion Control Sheets 39-53 54-62 Bridge Sheets



	F.H.W.A.			SHEET	TOTAL	
	REGION	STATE	PROJECT NO.	NO.	TOTAL SHEETS	RECORD DRAWING
The Descend			040-AP-353	1		4/0/2011
The Record		I		1		
Drawing date shall be shown in red.						
GENER	RAL N	OTE	S			
The roadway plans have 2012 Construction Standard L Revisions. Refer to the 1A s revision dates.	e been Drawing heet foi	desig Is (C r a l	ned utilizing Series) and isting of cu	the Cur rren	rent t	
Prior to the start of c establish control for locating and reflective pavement marke and reflective pavement marke control and documented existi marker information, while als Signing and Marking Standard item is paid for under const	and do ers. A ers sha ing stri, so using d draw.	ocume fter II be ping i the ings	nting existir paving, the installed us and reflectiv current edit (M & S Ser	ng st strip ing /e po tion	riping ping surve avemen of th	y nt e
Existing centerline info information. No geometric su The contractor shall establish	rvev wa	S COI	mpleted for	on d this	as-bu proje	uilt ect.
All paving limits shall L as determined by the Engined	be as s er base	shown d on	on the plar field condit	ns or ions.	-	
Pavement lift thickness						
The average project ele	evation	is 61	00′.			
Existing utility locations shall verify the exact location facilities and comply with all section 107.15 of the specific	n and a curren	lépth t blu	of all under	raroi	Ind	
Delineators and object replaced with new as noted i considered included in the pr	markers in the p fice of	s sha plans, contr	all be remove The cost c act items.	ed an of re	nd moval	is
New right-of-way and	easemei	nts a	re not requi	red.		
For right-of-way infor plans D-1-T-252, A-1-T-21	mation 0 and 1	not s D-1-	hown, see r T-217B.	'ight	-of-w	ay.
Changes in location and installation may be made by a conditions.	l length the Eng	of a nineer	spillway or c to improve	lown drai	drain Inage	ר
Elevations noted in () shall verify all existing eleva	are ap tions pi	proxi rior i	mate. Conti to constructi	racto on.	or	
Approximately 8 Tons o embankment (milled AC) are e each guardrail end terminal p	f AC (N estimated bad. Se	Misc d for e Sp	Str) and 11 the constru ecial Provisi	CY (iction ons.	of n of	
The Record Drawing page numbers shall be	się be dr ne	gnat e on awir	eal and ure need each ng. This a to be ble.			
shown in red.						
DESIGN JKF 12/15	INTERMOE)AL TRAI	T OF TRANSPORT	N		A Massional Contractor
CHECKED ZK 12/15 PARSONS			esign servio	ES	Hege	12/15
				•		xpires 09/30/2017
I-40 ALLENTOW	VN RD -	STA		1871		et 2 of 62 9_0F_ <mark>75</mark> _





WESTBOUND

TYPICAL SECTION

EASTBOUND

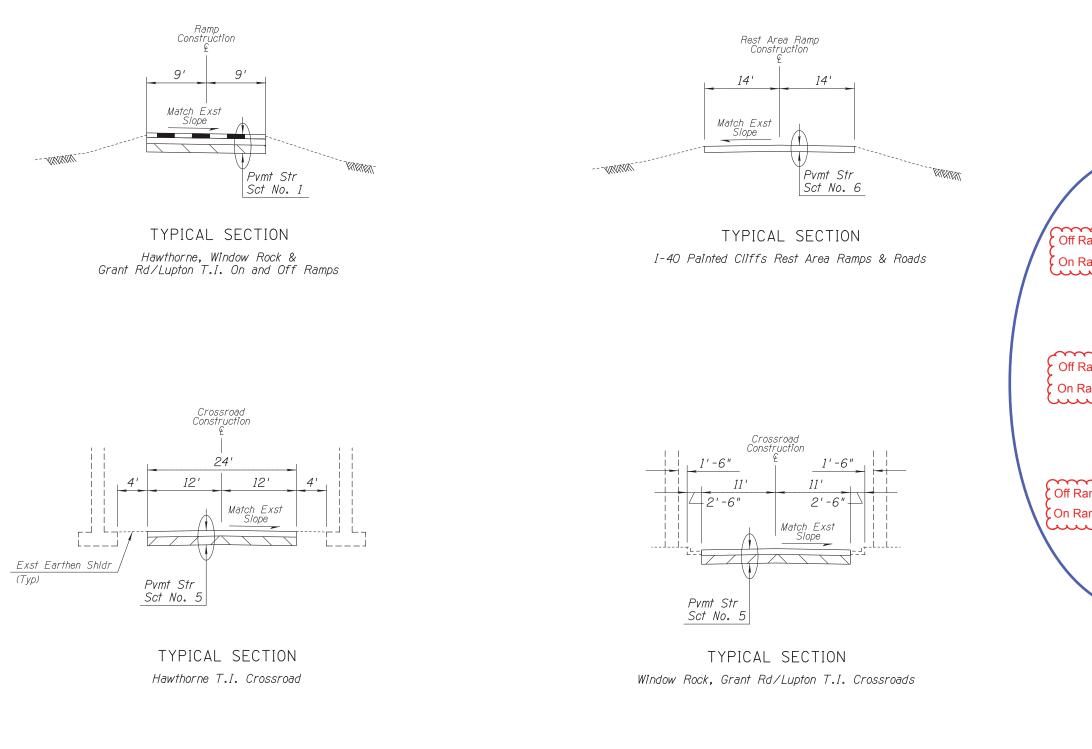
Sta 2805+24.15 to 2850+18.70 BK Sta 2850+37.77 AHD to 2871+45.02 BK Sta 2871+29.03 AHD to 2874+89.23

Sta 2805+24.15 to 2850+56.84 BK Sta 2850+37.77 AHD to 2871+13.04 BK Sta 2871+29.03 AHD to 2876+60.28

Page 6

DESIGN DRAWN

	Г	F.H.W.A.	STATE	PROJECT NO.	SHEET	TOTAL	RECORD DRAWING
	_	region 9	ARIZ.	040-E(218)T	NO.	SHEETS	4/3/2017
			<u> </u>	040-AP-353	1		
	Pvmt Str Sct No. 2:	Sta	2569)+44 to 27	73+5	57.54	
	Pvmt Str Sct No. 3:	STa	2115	0+51.54 to	280	5+24	•.15
	I-40 BF	RIDG	E D	ECKS 🛛			
	I-40 BF	RIDG		PECKS 🗖	En	d Sta	7
EB	I-40 BF Hawthorne T.I.	RIDG	Be			d Sta 10+95	
EB		RIDG	Be 26	eg Sta	26.		5
EB	Hawthorne T.I.	RIDG	Be 26 27	eg Sta 610+05	26. 278	10+95	5
EB	Hawthorne T.I. Window Rock T.I.	RIDG	Be 26 27 28	eg Sta 610+05 64+33	26. 276 285	10+95 64+67	5 7 2
	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.	RIDG	Be 26 27 28 26	ng Sta 610+05 64+33 852+18	26. 276 285 26	10+95 64+67 52+57	5 7 2 5
	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I.	RIDG	Be 26 27 28 26 27	eg Sta 610+05 64+33 852+18 610+05	26. 276 285 26. 276	10 + 95 64 + 67 52 + 57 10 + 95	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I.		Be 26 27 28 26 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I.		Be 26 27 28 26 27 27 28	eg Sta 610+05 64+33 852+18 610+05 64+33 852+18	26. 276 285 26. 276 285	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. All bridge decks to	recei	86 26 27 26 27 27 27 28	eg Sta 510+05 64+33 652+18 510+05 64+33 852+18 vmt Str Sc	26 27(285 26 27(285 7 No.	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. All bridge decks to		Be 26 27 28 26 27 28 <i>ive</i> P	rg Sta 510+05 64+33 352+18 510+05 64+33 352+18 vmt Str Sc t of TRANSPOR SPORTATION DIVISI	26 276 285 26 285 285 7 No.	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
WB	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Grant/Lupton T.I. All bridge decks to All bridge decks to ARIZON JKF 12/15 CPG 12/15 ZK 12/15 RO		Be 26 27 26 27 26 27 28 ive P	eg Sta 510+05 64+33 352+18 510+05 64+33 352+18 wmt Str Sc 5254 vmt Str Sc T OF TRANSPOR SPORTATION DIVISI SSIGN SERVI	26 276 285 26 285 285 7 No.	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7
	Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. Hawthorne T.I. Window Rock T.I. Grant/Lupton T.I. All bridge decks to MAME DATE ARIZON JKF 112/15 CPG 112/15 RO		Be 26 27 26 27 28 ive P	rg Sta 510+05 64+33 352+18 510+05 64+33 352+18 vmt Str Sc t of TRANSPOR SPORTATION DIVISI	26 276 285 26 285 285 7 No.	10 + 95 54 + 67 52 + 57 10 + 95 54 + 67 52 + 57	5 7 2 5 7



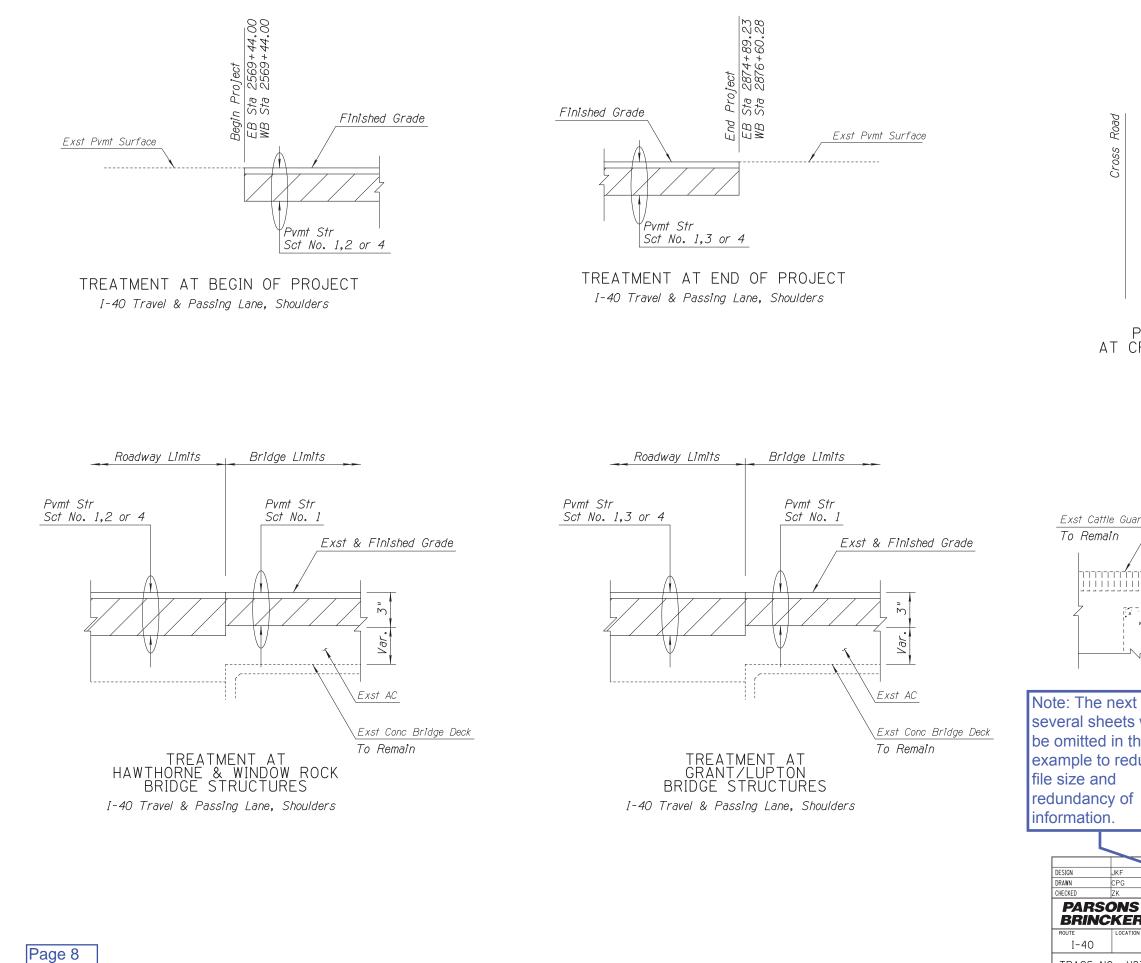


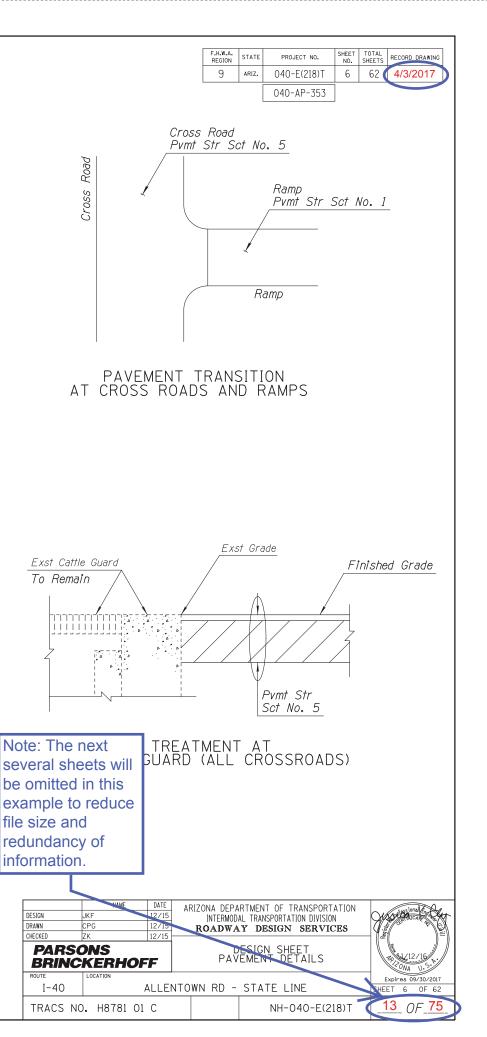
F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS	RECORD DRAWING	
9	ARIZ.	040-E(218)T	5	62	4/3/2017	5
		040-AP-353				

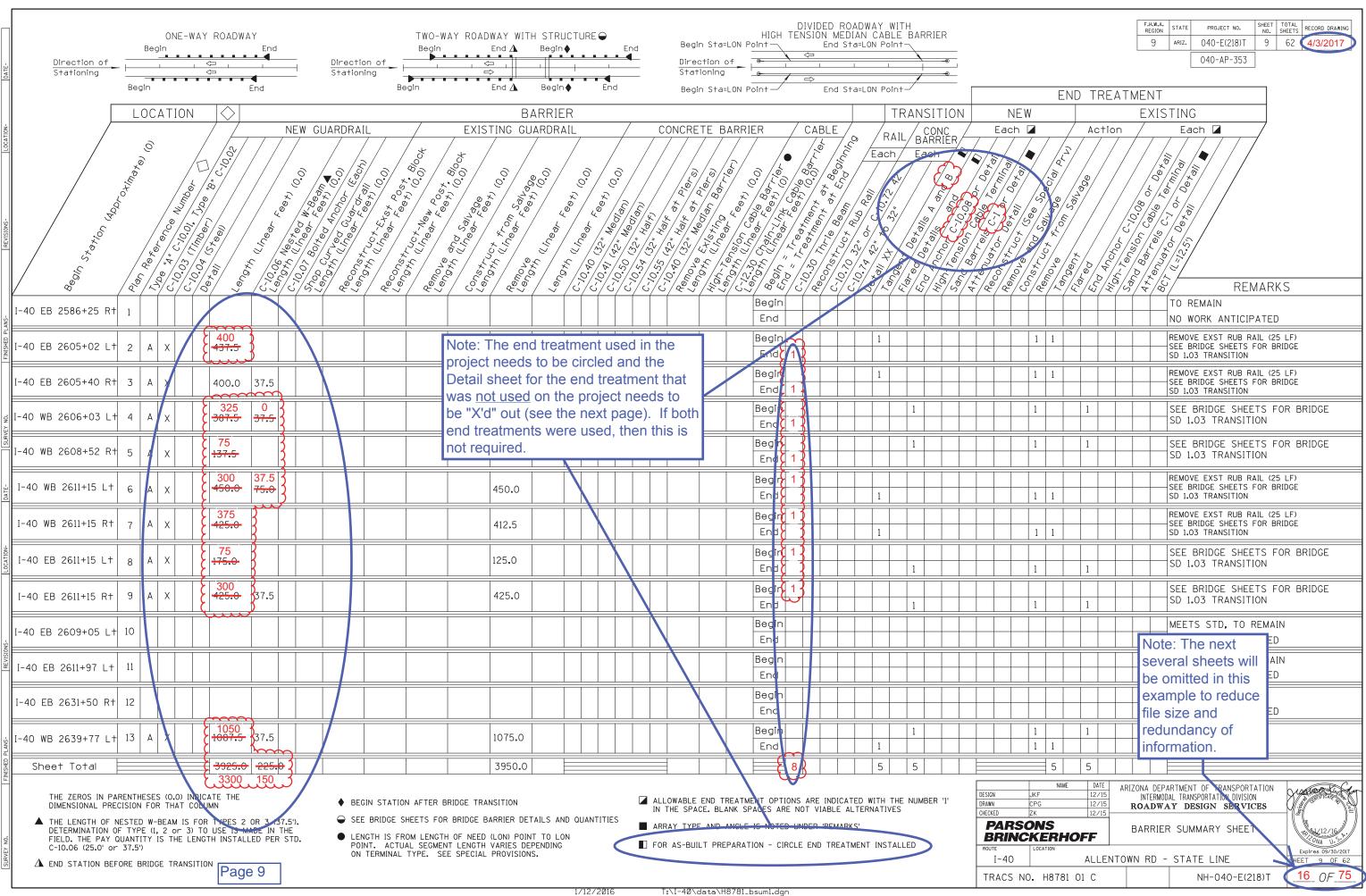
	RAMP F	RAMP PAVING LIMITS						
	Hav	vthorne Rd TI						
	Ramp E	Begin Sta	End Sta					
	EB Off-Ramp	ff-Ramp 4+24						
	EB On-Ramp	0+55	5+10					
Ramp	WB On Ramp	0+57	7 + 47					
Ramp	WB Off Ramp	4+41	9+90					
	Window Pock TI							
	Ramp £	Begin Sta	End Sta					
	EB Off-Ramp	5+24	11+31					
~~~~~	EB On-Ramp	0+70	5+67					
Ramp	WB <del>On Ramp</del>	0+67	7+78					
Ramp	WB <del>Off Ramp</del>	5+34	11+31					
uu	Gra	ant/Lupton TI						
	Ramp £	Begir Sta	End Sta					
	EB Off-Ramp	2-83	11+36					
	EB On-Ramp	0+55	12+15					
Ramp	WB <del>On Ramp</del>	0+84	9+25					
Ramp	WB <del>Off Ramp</del>	5+62	9+56					
uu								

CROSSROAD PAVING LIMITS						
Crossroad	Begin Sta	End Sta				
Hawthorne Rd	0+70	5+29				
Window Rock/N12	17 + 81	22+16				
Grant Rd	0+00	5+86				

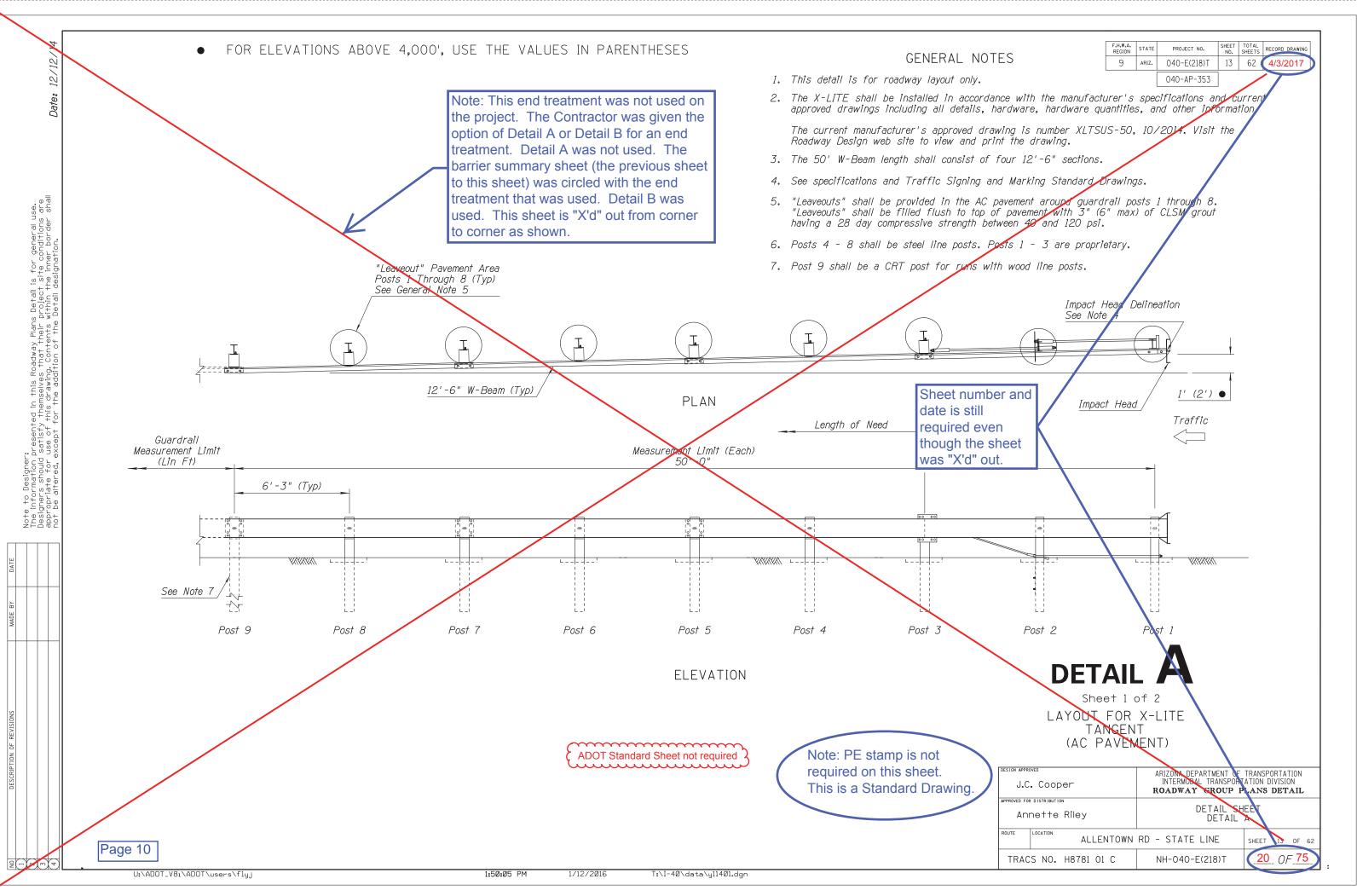
NAME	DATE	ARIZONA DEPA	RIMENT OF T	RANSPORTATION		( in the	and a		
JKF 12/15 CPG 12/15			INTERMODAL TRANSPORTATION DIVISION ROADWAY DESIGN SERVICES						
ZK	12/15					20	) e		
DNS		D	ESIGN SHE	ΈT		La:	1		
KERHOF	F	ΤY	PICAL SEC	TION		The sector	C/10/ N		
						NA NA	U. S.		
LOCATION						Expires C	9/30/2017		
ALLENTOWN RD - STATE LINE						SHEET 5	OF 62		
. H8781 O1	С		NH-C	940-E(218)T		<u>12</u> (	0F_ <mark>75</mark> _	D	

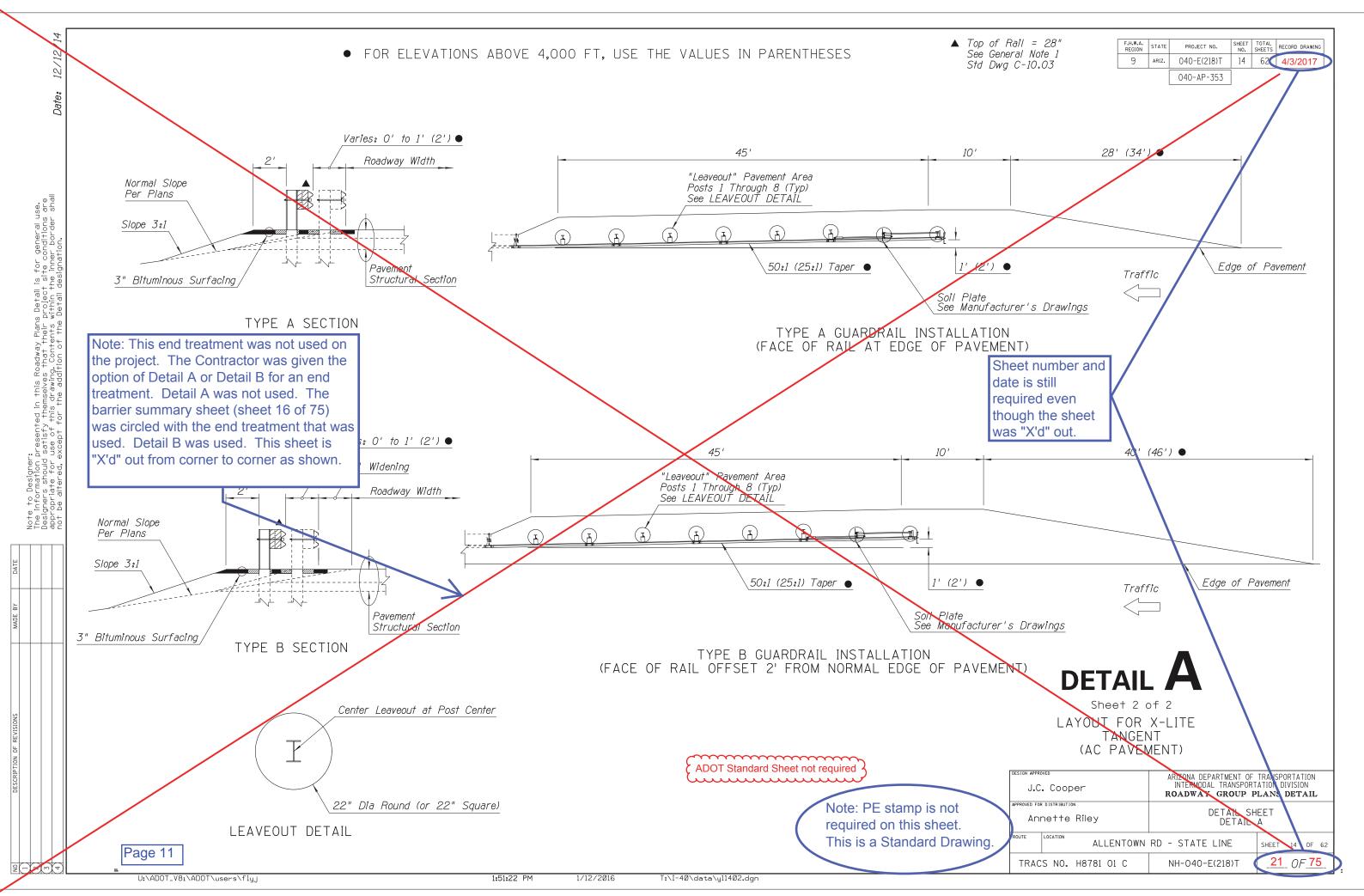




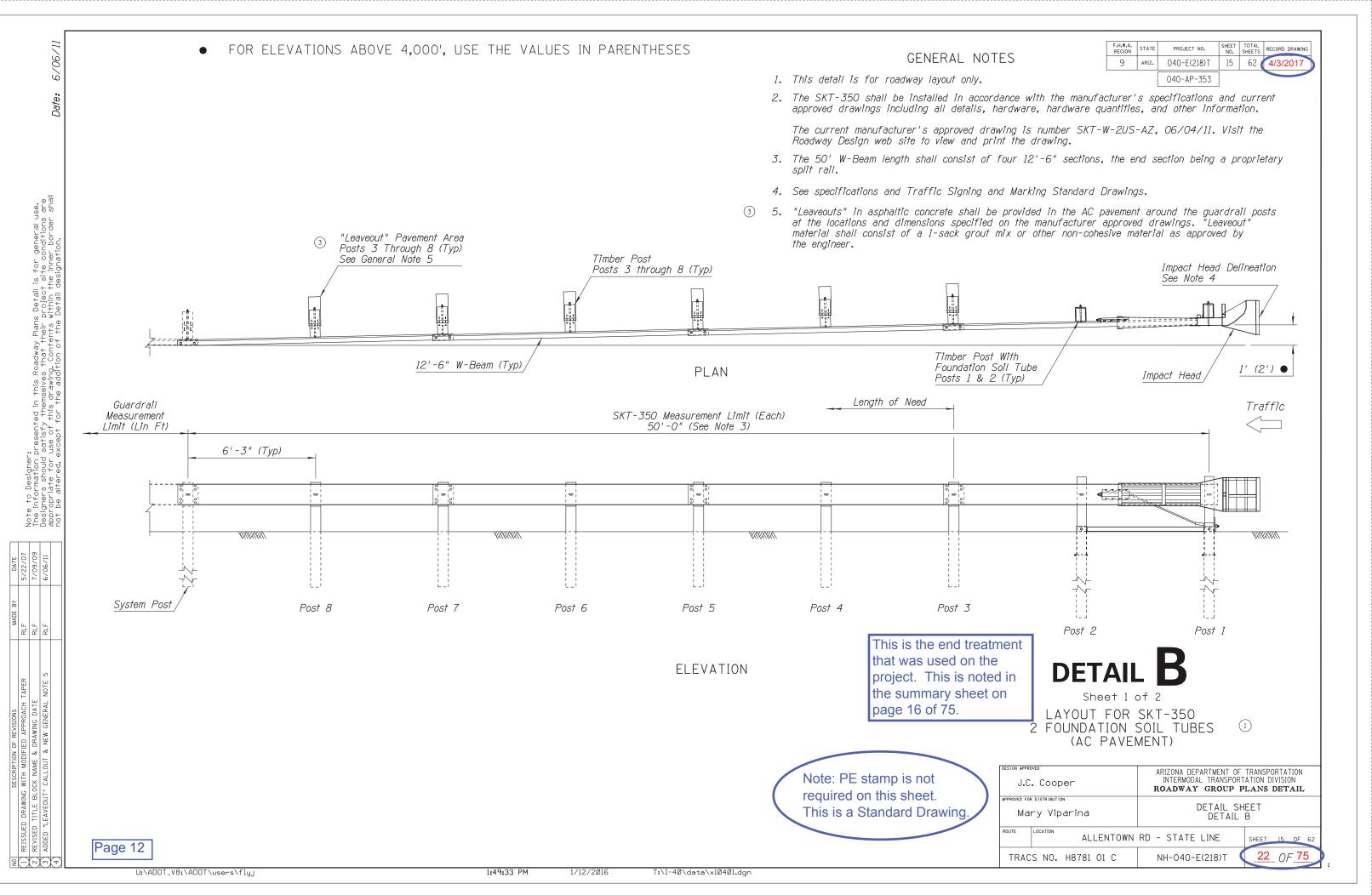


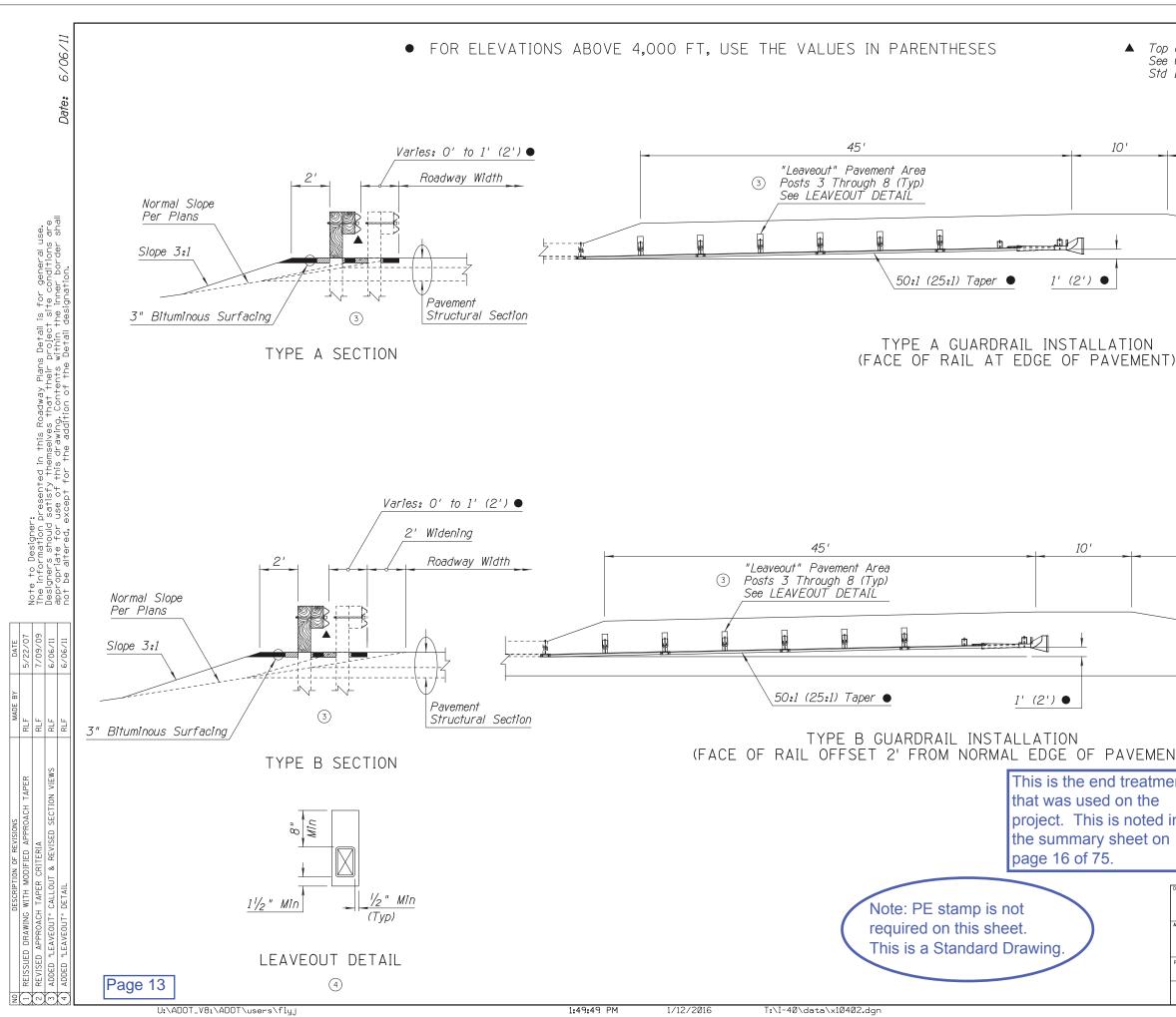
REV. DATE: 01/12/2015



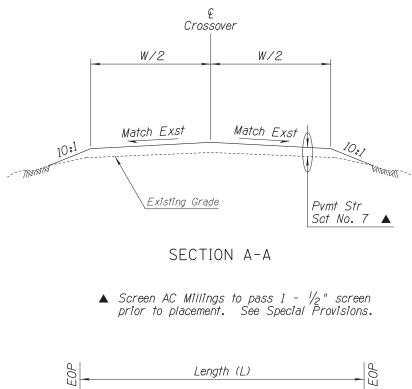


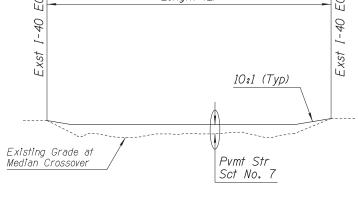






Rail = 28"	F.H.W.A. REGION	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS RECORD D	
eneral Note 1 vg C-10.03	9	ARIZ.	040-E(218)T	16	62 4/3/2	017
vg c 10.00			040-AP-353			
28	3' (34')	•		-		
				_		
Traffic						
$\langle \square$						
	40' (4	46') (				
	40' (4	46') (	D			-
	40' (4	46') (	•			-
	40' (4	46') <b>(</b>	•			-
	40' (4	<i>46')</i> (	•			-
	40' (*	46')	•			-
	40' (4	46') (	•			-
	40' (4	46')	•			-
Traffic	40' (4	46')	•			-
Traffic	40' (4	46')	•			
、 、						-
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			B			
) t <b>DET</b> Shi LAYOUT	FAII eet 2 FOR	of 2 SKT	<b>B</b>			
) <b>DET</b> Shi LAYOUT 2 FOUNDA	FAII eet 2 FOR TION	of 2 SKT SOIL	<b>B</b> -350 TUBES			
) E DET Shi LAYOUT 2 FOUNDA	FAII eet 2 FOR	of 2 SKT SOIL	<b>B</b> -350 TUBES			
) <b>DET</b> Shi LAYOUT 2 FOUNDA (AC	FAII eet 2 FOR TION	of 2 SKT SOIL MEN	B -350 TUBES T)	ENT_ OF	TRANSPORTAT	
) <b>DET</b> Shy LAYOUT 2 FOUNDA (AC J.C. Cooper	FAII eet 2 FOR TION	of 2 SKT SOIL MEN	<b>B</b> -350 TUBES T)	ANSPOR	TATION DIVISIC	N
) <b>DET</b> Shi LAYOUT 2 FOUNDA (AC OVED FOR DISTRIBUTION	FAII eet 2 FOR TION	of 2 SKT SOIL MEN	B -350 TUBES T) RIZONA DEPARTM INTERMODAL TR DADWAY GR DETA	ANSPOR OUP 1 AIL SI	TATION DIVISIC PLANS DET. HEET	N
) <b>DET</b> Shy LAYOUT 2 FOUNDA (AC ON APPROVED J.C. Cooper J.C. Cooper OVED FOR DISTRIBUTION Mary Viparina	FAII eet 2 FOR TION	of 2 SKT SOIL MEN	B -350 TUBES T) RIZONA DEPARTM INTERMODAL TR DADWAY GR DETA	ANSPOR OUP 1	TATION DIVISIC PLANS DET. HEET	N
) <b>DET</b> Shi LAYOUT 2 FOUNDA (AC GN APPROVED J.C. COOPER OVED FOR DISTRIBUTION Mary Viparina TE LOCATION	FAII eet 2 FOR TION PAVE	of 2 SKT SOIL MEN	B -350 TUBES T) RIZONA DEPARTM INTERMODAL TR DADWAY GR DETA	ANSPOR OUP I AIL SI ETAIL	TATION DIVISIO PLANS DET. HEET B	N



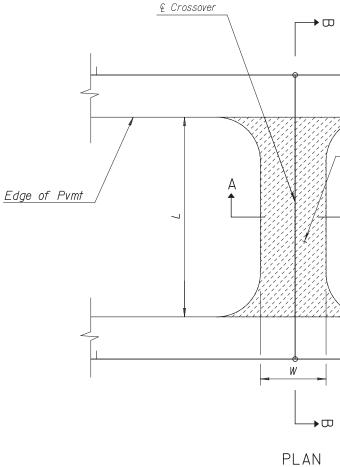


SECTION B-B

### CROSSOVER SCHEDULE

$\bigcirc$	Station L		W	Area (SF)					
1	2580+00	76	20	1,864					
2	2700+85	76	20	1,864					
3	2795+17	76	20	1,864					
4	2874+69	76	20	1,864					

Page 14

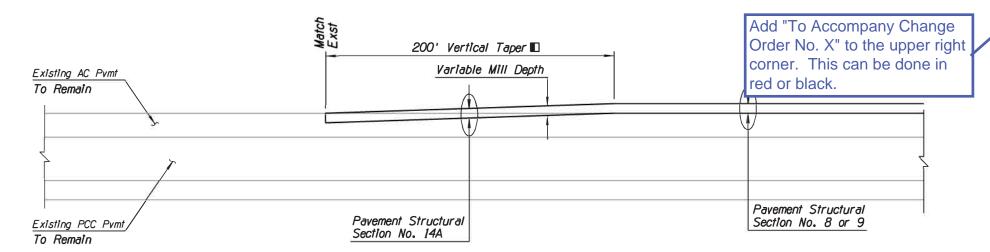


#### NOTE:

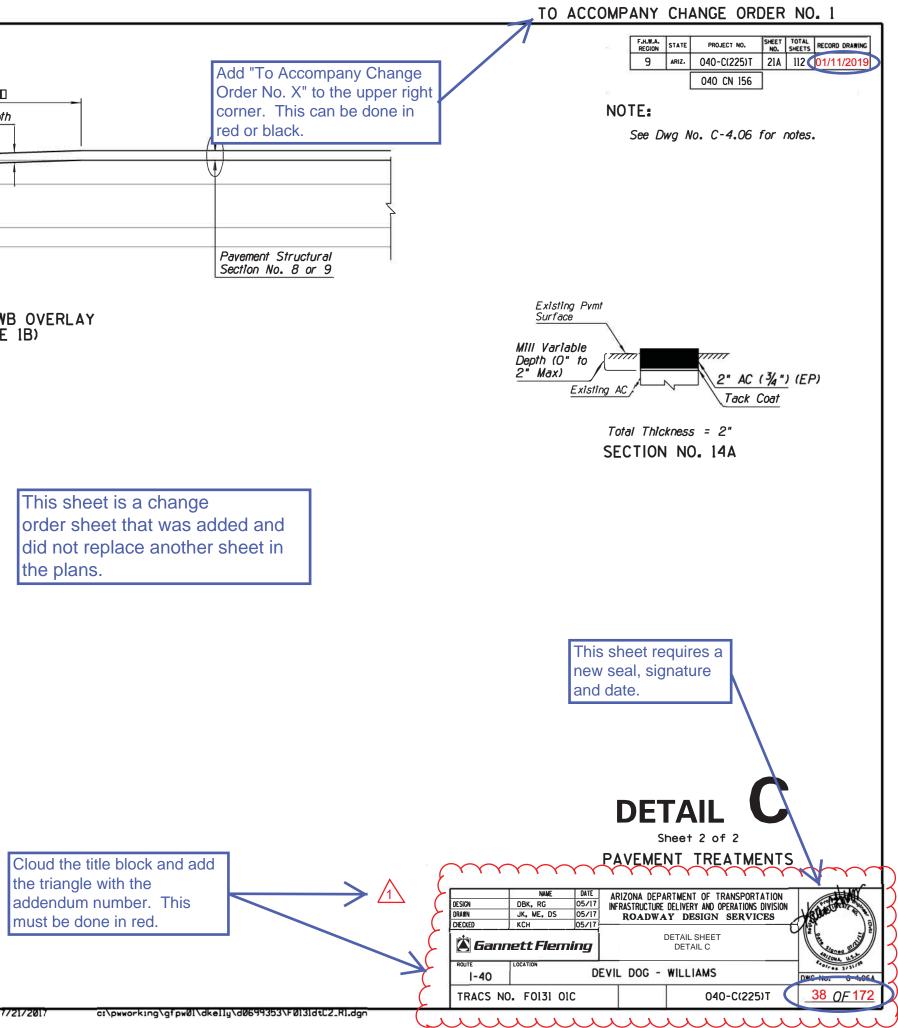
- 1. Contractor shall match exst elevations at the edge of I-40 shoulder.
- 2. Locations and dimensions above are approximate. Contractor shall verify measurements in the field.



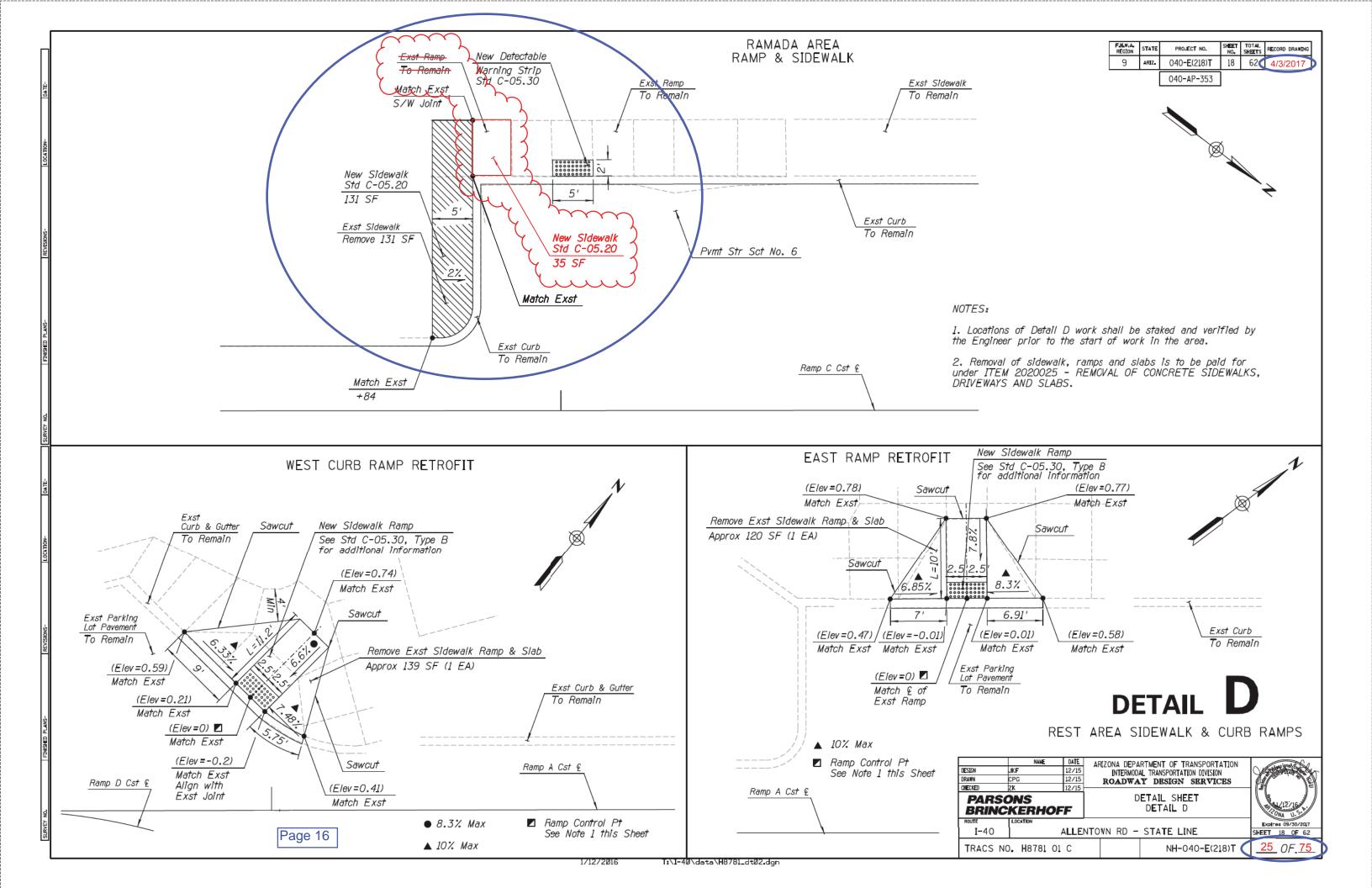
$\frac{FHWAA}{REGION} \frac{STATE}{PROJECT NO.} \frac{SHEET}{NO.} \frac{OTAL}{SHEETS} \frac{RECORD DRAWING}{9} \frac{ARIZ.} 040-E(218)T 17 62 4/3/2017}{040-AP-353}$	9 ANZ DAD-ECIBIT IT 62 (4/3/2017 040-AP-353 WB Cst § Commt Str Sot No. 7									
$\frac{WB \ Cst \ \hat{e}}{Pvmt \ Str \ Sct \ No. \ 7}}$	UND CST E UND CST E UND CST E UND CST E UND CST NO. 7 DETAIL C MEDIAN CROSSOVERS				REGION	STATE		SHEET NO.		
$\frac{WB \ Cst \ \varrho}{Pvmt \ Str \ Sct \ No. \ 7}}$ $\frac{Edge \ of \ Pvmt}{ER \ cst \ \varrho}$	MB Cet E Punt Str Set No. 7				9	ARIZ.		17	62	4/3/2017
$\frac{Pvmt \ Str \ Sct \ No. \ 7}{Edge \ of \ Pvmt}$	DETAIL C MEDIAN CROSSOVERS					L	040-AP-353			
	MEDIAN CROSSOVERS	A 	<u>- Sct I</u>		Edge		<u>°vmt</u>			
		JKF CPG ZK	12/15		ONA DEPA INTERMOD	CRC	SSOVER	S ATION N		
ZK 12/15 DETAIL SHEET DETAIL C	KERHOFF DETAIL C	JKF CPG ZK DNS KERH(	12/15 12/15 12/15		ONA DEPA INTERMOD		SSOVER OF TRANSPORT PORTATION DIVISIO SIGN SERVIC	S ATION N		HUNLEN COLOR
ZK 12/15 DETAIL SHEET	KERHOFF         DETAIL C           LOCATION         Expires 09/30/2017	JKF CPG ZK DNS KERH(	12/15 12/15 12/15	ME	DIAN ona dep <i>i</i> intermod <b>oadwa</b>	CRC	SSOVER OF TRANSPORT SPORTATION DIVISIO SIGN SERVIC SHEET AIL C	S ATION N		xpires 09/30/2017

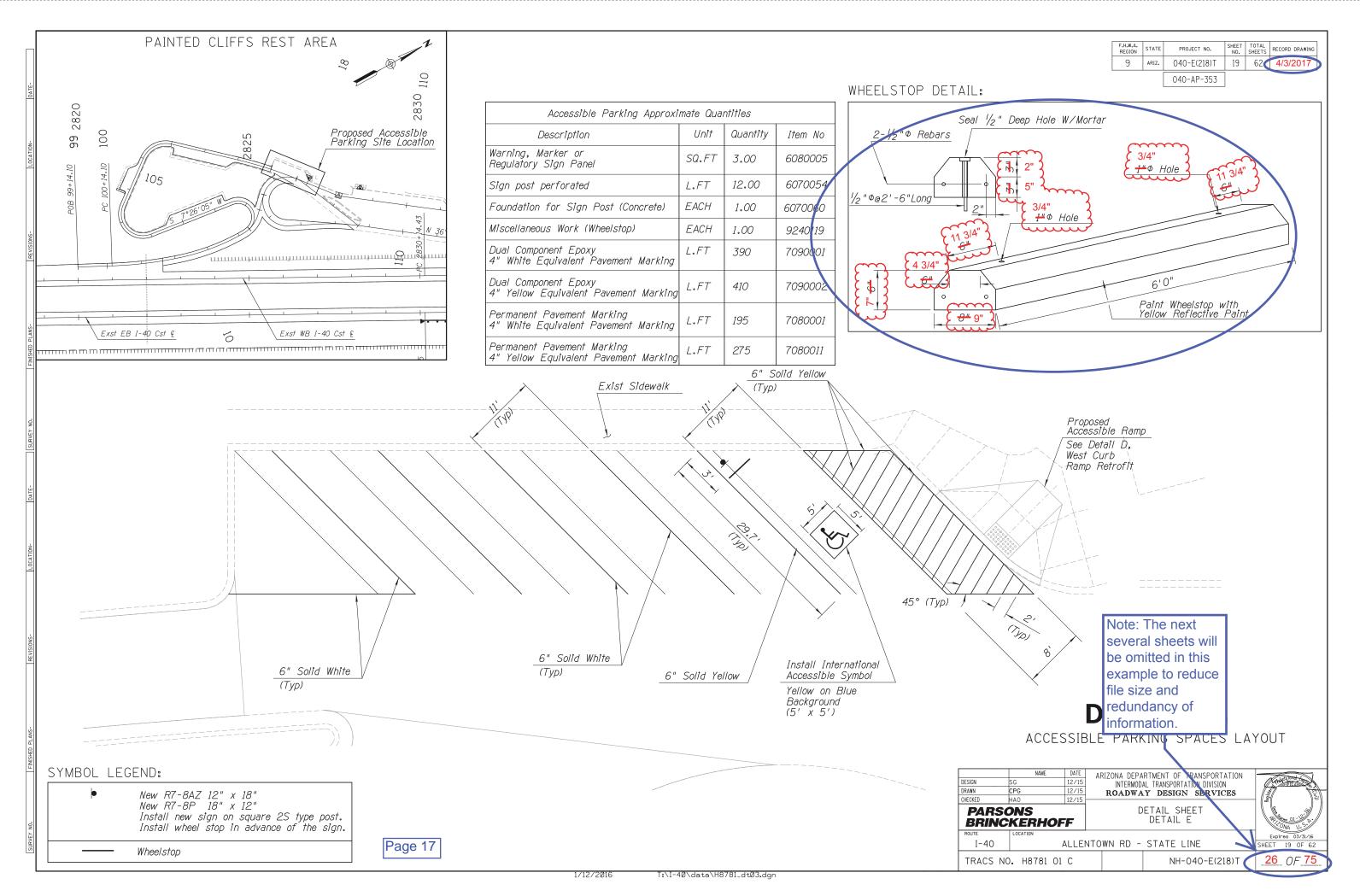


# TREATMENT AT BEGIN/END WB OVERLAY (CONSTRUCTION PHASE 1B)



REV NO. LOCATION-A REVISED PHASING - EB ROADWAY FIRST





_____

#### TRAFFIC CONTROL GENERAL NOTES:

- 1. The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications at no cost to the Department. All traffic control plans are subject to the approval of the Engineer before beginning construction.
- 2. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer at no cost to the Department.
- 3. The contractor shall maintain two lanes of traffic on I-40 on weekends, holidays and as directed by the Engineer.
- 4. The contractor shall maintain traffic on a paved surface at all times.
- 5. All existing signs in conflict with the construction signs shall be removed, relocated or covered in place, as directed by the Engineer. The contractor shall store and reinstall items which have been removed or relocated in a manner approved by the Engineer at no additional cost to the Department.
- 6. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.
- 7. "WATCH FOR TRUCKS" signs shall be installed wherever truck ingress or egress is expected.
- 8. Use double fines signing when workers are present. See Figure SA-12 of the ADOT Traffic Control Desian Guidelines 2010.
- 9. The retroreflective sheeting on all construction signs shall meet the minimum criteria established in Section 1007 of the Specifications.
- 10. All construction signs shall have black letters on a fluorescent orange background, except, as otherwise noted.
- 11. For signs installed on spring or rigid stands, sign mounting height shall be according to the sign manufacturer recommendation.
- 12. 2 flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type "A" flashing warning lights shall be required on all night time construction signs except the "END ROAD WORK THANK YOU" sian.
- 13. Construction signs shall not be displayed to traffic no more than 24 hours prior to the actual start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after completion of the construction activities.
- 14. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway and covered or turned away from traffic.
- 15. Drums, Type 2 barricades and vertical panels shall be placed 40 reet on center in tapers and 80 feet on center in tangents, except as otherwise noted on the plans.
- 16. The contractor may substitute Type 1 barricades for Type 2 barricades as long as the reflective area on the top panel of the Type 1 barricade is equivalent or greater than the reflective area of a Type 2 barricade.
- 17. For night work, a Type C steady-burning rellow light shall be mounted on every drum, Type 2 barricade, and vertical panel when used for channelization only.
- 18. During nighttime the contractor shall not utilize cones for channelization devices unless otherwise directed by the Epgineer.
- 19. The contractor shall utilize a flashing arrow panel in the seguential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.

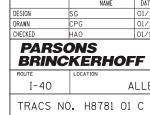
- 20. For temporary concrete barrier details, see Standard Draw (yellow) barrier markers listed on the ADOT Approved Produ Drawings M-32 and M-33 shall be installed at 25 foot sp for the marker shall be considered a part of the barrier
- 21. For sand barrel crash cushion details. see Standard Draw
- 22. All existing pavement markings in conflict with the traffic removed by methods approved by the Engineer. Painting o stripe obliteration. For a daytime shift in traffic, the sh channelizing devices with the existing pavement markings re
- 23. No pavement marking obliteration work will be allowed on e The existing yellow left edge stripes shall be removed with process (activities 2B and 2C).
- 24. When no longer required, temporary pavement markings sha
- 25. Existing pavement markers shall be removed when present no cost to the Department.
- 26. The contractor shall clean the roadway surface to the sati and air-jet blowing, immediately prior to the placement of The roadway surface shall be dry.
- 27. At the completion of the new pavement surface each day, of shall be striped with one application of standard reflectori of the permanent striping, or as directed by the Engineer.
- 28. All drawings are schematic only and not to scale. All dim
- The contractor shall ensure the earthen material or aggrega cushions, under the temporary concrete barrier and between in each direction for setups off the pavement.
- 30. The Contractor shall provide flaggers and uniformed police during the installation, relocation or removal of Temporary
- 31. For temporary concrete barrier markers, see ADOT Standa Markers shall be installed at 20 feet spacing. The installe be barrier cost.

This sheet is "X'd" out because it was replaced as part of an addendum. The next sheet shows the addendum # 1 in the upper right corner.

Uniform Traffic Control Devices Part 6, as amended by the January, 2012 ADOT Supplement.

raffic Control Design Guidelines, 2010.

Note: If this sheet is available, please provide it with the "X" through the sheet as shown. The "X" does not need to be in red. Red or Black "X" on this sheet is acceptable. If the sheet is not available it is not necessary to include it in the record drawings. The addendum sheet (see next sheet) must be present.



		F.H.W.A. REGION	STATE	PROJECT NO.	SHEET	TOTAL SHEETS	RECORD DRAWING
		9	ARIZ.	040-E(218)T	NO.	62	4/3/2017
			[	040-AP-353	]		
icts List a	and con	(white) or forming to alled price	o Sta				
ings C-1	and C-	2.					
control str ver stripin ift may be maining in	ng does e accom	not const	itute	h			
xisting yel the passi							
l be remo	ved.						
ilong exist	ting str	ipe obliter	ation	at			
sfaction of all tempor							
		lines and at the loo					
ensions ar	re in fe	et, unless	s othe	erwise notea	•		
				and barrel c is 10:1 or 1			
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d Drawing d price fo	,						
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	$\searrow$						
NAME 6G	DATE 01/16	INTERMOD	AL TRAM	T OF TRANSPORT ISPORTATION DIVISIO	N		Constand to
	01/16	ROADWA		CONTROL	CES	Realisto	
NS KERHO	FF			AL NOTES			RPICONA U.S.
LOCATION	ALLENT	OWN RD -	STA	TE LINE			EX ires 03/31/16 ET 29 OF 62
. H8781 O	1 C			NH-040-E(2	18)T		6 OF 75

TO ACCOMPANY ADDEN

	TRAFFIC CONTROL GENERAL NOTES:	
1. 2. 3.	The traffic control plans represent a suggested method for traffic control during construction. The contractor may prepare another traffic control plan in accordance with Section 701 of the Specifications at no cost to the Department. All traffic control plans are subject to the approval of the Engineer before beginning construction. Adjustments to the details of these traffic control plans and requirements may be necessary due to construction activities, as directed by the Engineer at no cost to the Department. The contractor shall maintain traffic on I-40 on weekends and holidays as specified 1 in Maintenance of Traffic sheets or as directed by the Engineer. The contractor shall maintain traffic on a paved surface at all times.	TO ACCOMPANY ADDENDUM NO. XX must be shown. It does not need to be in red. Addendum's are typically inserted in the plans before construction begins.
	All existing signs in conflict with the construction signs shall be removed, relevaned or covered in place, as directed by the Engineer. The contractor shall store and remstall items which have been removed or relocated in a manner approved by the Engineer at no additional cost to the Department.	23. No pavement marking obliteration work will be allowed on existi The existing yellow left edge stripes shall be removed with the process (activities 2B and 2C).
		24. When no longer required, temporary pavement markings shall be
6	. Speed limit signing is preliminary and is subject to review and change by the Engineer as dictated by field conditions.	25. Existing pavement markers shall be removed when present along no cost to the Department.
	WATCH FOR TRUCKS" signs shall be installed wherever truck ingress or egress is expected. The addendum information is Use double fines typically shown clouded with a SA-12 of the ADOT Traffic Control	26. The contractor shall clean the roadway surface to the satisfac and air-jet blowing, immediately prior to the placement of all The roadway surface shall be dry.
	<i>Design Guldelines</i> <i>The retroreflectiv</i> <i>Section 1007 of Section 1007 of Section 1007 of Course of the minimum criteria established in Section 1007 of Section 10</i>	27. At the completion of the new pavement surface each day, cente shall be striped with one application of standard reflectorized of the permanent striping, or as directed by the Engineer.
10	All construction signs shar have black remers on a magine second orange background, except, as otherwise noted.	28. All drawings are schematic only and not to scale. All dimensi 29. The contractor shall ensure the earthen material or aggregate l
11	. For signs installed on spring or rigid stands, sign mounting height shall be according to the sign manufacturer recommendation.	cushions, under the temporary concrete barrier and between th in each direction for setups off the pavement.
12	. 2 flags shall be mounted on top of all construction signs except the "END ROAD WORK THANK YOU" sign. Type "A" flashing warning lights shall be required on all night time construction signs	30. The Contractor shall provide flaggers and uniformed police off during the installation, relocation or removal of Temporary Cond
1.3	except the "END ROAD WORK THANK YOU" sign. . Construction signs shall not be displayed to traffic no more than 24 hours prior to the actual	31. For temporary concrete barrier markers, see ADOT Standard E Markers shall be installed at 20 feet spacing. The installed pi considered part of the barrier cost.
	start of construction. These signs may be installed sooner but they must be covered or turned away from traffic. The cost for covering or turning them shall be considered part of the sign installation cost. No further compensation will be made. These signs shall be removed within 24 hours after completion of the construction activities.	This sheet is the addendum sheet. This sheet replaces the original sheet. Addendum sheets
14	. When traffic control devices are not in use, they shall be moved at least 30 feet from the roadway and covered or turned away from traffic.	must be included with the record drawings. If the original sheet is available, that sheet can <i>evices Part 6, Te</i> <i>tement.</i>
15	. Drums, Type 2 barricades and vertical panels shall be placed 40 feet on center in tapers and 80 feet on center in tangents, except as otherwise noted on the plans.	be included with an "X" from corner to corner. If the original sheet is not available, it may be
16	. The contractor may substitute Type 1 barricades for Type 2 barricades as long as the reflective area on the top panel of the Type 1 barricade is equivalent or greater than the reflective area of a Type 2 barricade.	omitted. If there are more than one addendum's on a sheet, as long as the final addendum shows all
17	. For night work, a Type C steady-burning yellow light shall be mounted on every drum, Type 2 barricade, and vertical panel when used for channelization only.	of the information from the previous addendum's the previous addendum's the previous addendum's do not
18	. During nighttime the contractor shall not utilize cones for channelization devices unless otherwise directed by the Engineer.	need to be included. If the final addendum sheet does not show the information from
19	. The contractor shall utilize a flashing arrow panel in the sequential chevron mode for each closure of a through lane. The contractor shall not utilize a flashing arrow panel in connection with any shifting taper.	previous addendum's those additional DESIDN SG addendum's must be included.
		PARSONS BRINCKE
	Page 19	I-40 TRACS NO. H

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Ings C-1 and C-2.       control striping plan shall by the accomplished three maining in place.         wisting yellow pavement mark to the passing lane and ramp         If be removed.         along existing stripe obliteral         sfaction of the Engineer by all temporary pavement mark         center lines, lane lines and laced traffic paint at the loced         anensions are in feet, unless         ate base under the temporary         officers (DPS) as directed         concrete Barrier.         rd Drawing M-32 barrier markers shot         s, Temporary Traffic Control	Image: Control of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were striping does not constitute of the passing lane and ramp mill         Image: Control striping plan shall be were all temporary pavement markings         Contert lines, lane lines and stop         Image: Control striping plan at the location         mensions are in feet, unless other         at base under the temporary same the barrier and the roadway if         officers (DPS) as directed by         Concrete Barrier.         rd Drawing M-32 barrier markers shall be         price for the markers shall be         price for th	Image: Decision of the markers shall be         9       Mage: Date         9       Mage: Date         040-E12187T.       040-E12187T.         040-AP-353       Odd-AP-353         Ving C-3. 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Is 10:1' or officers (DPS) as directed by the Engine Concrete Barrier.         rd Drawing M-32 barrier markers.       price for the markers shall be         starter of the markers shall be       price for the markers shall be         starter of the markers shall be       price for the markers shall be         starter of the markers shall be       price for the markers shall be         starter of the markers shall be       price for the markers shall be         starter of the markers shall be       price for the markers shall be         starter of the markers shall be       price for the markers shall be	Intermediate         Intermediate           Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate           Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         Image: Intermediate         I	Image       Image <thimage< th=""> <thimage< th=""> <thim< td=""><td>Image         Image         <th< td=""></th<></td></thim<></thimage<></thimage<>	Image         Image <th< td=""></th<>

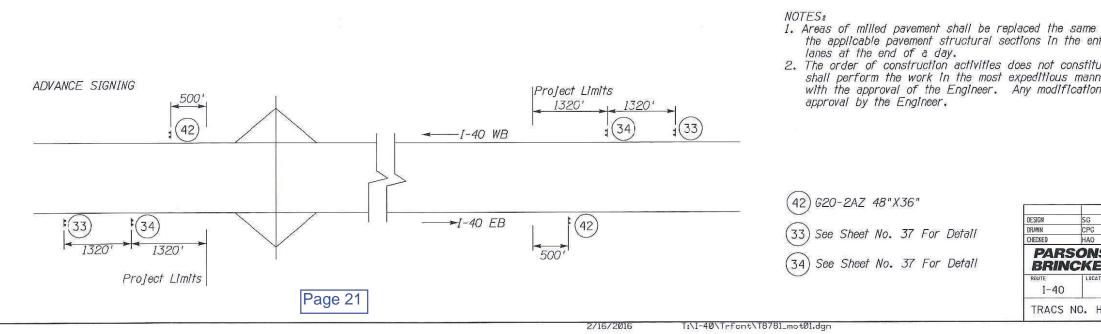
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ACTIVITY NO	CONSTRUCTION A	Another ex	xample of - dum	TRAFFIC CONTROL			
1	Advance signs	sheet.	TRUAD WUR	ialty signs: "ROAD WORK (DATE) TO < NEXT 6 MILES" in advance of wo. AD WORK AHEAD" sign on all ramps	rk zone.	The "RC	re to remain DAD WORK (E work begins.
2A	Mill and replace ramps		Figure SA-10	close ramp and detour traffic per Si O of Traffic Control Design Guideling for Lupton Rd TI Ramp Closure.	heets 35, of these plans and es (TCDG). Use detour	Maintain complete	ork only at ( h traffic on ed in milled o below). Setup
2B	Mill and replace travel lane and a Install Guard Rail Install Loop Counter System	outside shoulder	Guidelines.	ane traffic per Figure SA-5(R) of th Reduce speed to 45 mph. When wo lose ramp and detour traffic per St	rking next to gore areas,	must be	n 2-lane traf e completed in te 1 below).
20	Mill and replace travel lane (12" and outside shoulder. Install Gua. Install Loop Counter System	pavement) rd Rail	Maintain 1-la When working temporarily c	ane traffic per sheet 34A. Reduce g next to gore areas, close ramp and detour traffic per Sh	speed to 45 mph. neets 35, 36 of these plans.	Maintain	n 2-lane traf
2D	Mill and replace passing lane and Install Guard Rail Install Loop Counter System	l inside shoulder		ane traffic oer Figure SA-5(L) of th d to 45 mph.	he ADOT TCDG.	must be	n 2-lane trat e completed i te 1 below).
2E	Mill and replace passing lane (12 and inside shoulder. Install Guard Install Loop Counter System	" pavement) d Rail	Maintain 1-la Reduce speed	ane tratific per sheet 34B. d to 45 mph		Maintain	n 2-lane traf
2F	Mill and replace cross roads		Work shall L two-way tra be per MUT	be limited to one side of the roadway ffic with a flagging operation Tra CD TA-10.	y at a time. Maintain fric control shall	replacem	traffic on n ment must be ic (see Note vay.
26	Mill and replace Rest Area Approach Road		Work shall L two-way tra be per MUT	be limited to one side of the roadway ffic with a flagging operation. Tra CD TA-10.	y at a time. Maintain ffic control shall	Day tim replacer	ne work only. ment must be fic (see Note
2Н	Mill and replace rest area		Maintain the phased such	traffic circulation inside the rest a that there is access to parking spa	rea. Work shall be ces at all times.	replacer to trafi	ime work only ment must be fic (see Note ler way.
DVANCE SIGNING	500' (42)		-1-40 WB	Project Limits	NOTES: 1. Areas of milled pavement the applicable pavement lanes at the end of a of 2. The order of constructi shall perform the work with the approval of the approval by the Engineer	structural sec day. on activities do in the most e. e Engineer.	tions in the oes not const xpeditious ma
1 (23) L (2	4		►I-40 EB	¢ (12)	(42) G20-2AZ 48"X36"		DESIGN S
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Proj	ect Limits				(34) See Sheet No. 37 Fo.	r Detall	ROUTE
	Page 20						

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ffic on weekends an in milled areas on tl Setup is to be take	he sam	ne daj	y before ope	ening	to ti	raffic
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TO ACCOMPANY ADD

		MAINTENANCE OF TRAFFIC						
		MAINTENANCE OF TRAFFIC						
ACTIVITY NO	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL						
1	Advance signs	Provide specialty signs: "ROAD WORK (DATE) TO (DATE)" and "ROAD WORK NEXT 6 MILES" in advance of work zone. Provide "ROAD WORK AHEAD" sign on all ramps.	Signs are to remain in p The "ROAD WORK (DATE. before work begins.					
2A	Mill and replace ramps	Temporar Another example Figure S on Sheet of an addendum sheet. Temporar Another example on Sheet of an addendum sheet. Traffic per Sheets 35, of these plans and Design Guidelines (TCDG). Use detour mp Closure.	Night work only at Grant Maintain traffic on week completed in milled areas Note 1 below). Setup is					
28	Mill and replace travel lane and outside shoulder Install Guard Rall Install Loop Counter System	Maintain Sheet. Guidelines. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plans.	Maintain 2-lane traffic must be completed in mil (see Note 1 below). Setu					
20	Mill and replace travel lane (12" pavement) and outside shoulder. Install Guard Rall Install Loop Counter System	Maintain 1-lane traffic per sheet 34A. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheets 35, 36 of these plane.	One lane in each directic over the weekends (not h					
2D	Mill and replace passing lane and inside shoulder Install Guard Rail Install Loop Counter System	Maintain 1-lane traffic per Figure SA-5(L) of the ADOT TCDG. Reduce speed to 45 mph.	Maintain 2-lane traffic must be completed in mi (see Note 1 below), Setu					
2E	MIII and replace passing lane (12" pavement) and inside shoulder. Install Guard Rall Install Loop Counter System	Maintain 1-lane traffic per sheet 34B. Reduce speed to 45 mph.	One lane in each direction over the weekends (not h					
2F	Mill and replace cross roads	Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10.	Maintain maffle on week replacement must be com to traffic (see Note 1 be under way.					
26	Mill and replace Rest Area Approach Road	Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10.	Day time work only. Mal replacement must be com to traffic (see Note 1 b under way.					
2H	Mill and replace rest area	Maintain the traffic circulation inside the rest area. Work shall be phased such that there is access to parking spaces at all times.	Night time work only. replacement must be con to traffic (see Note 1 b not under way.					

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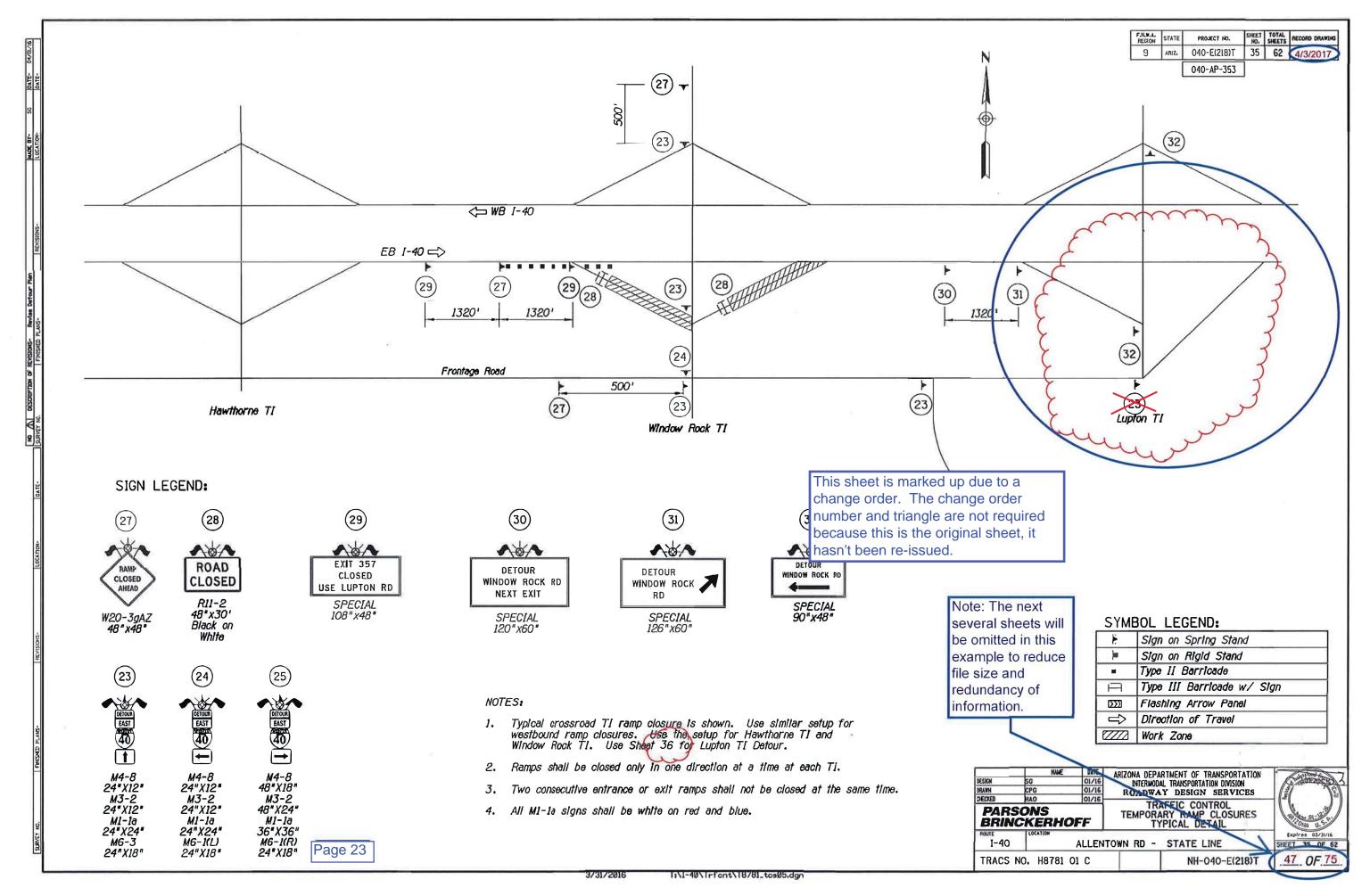


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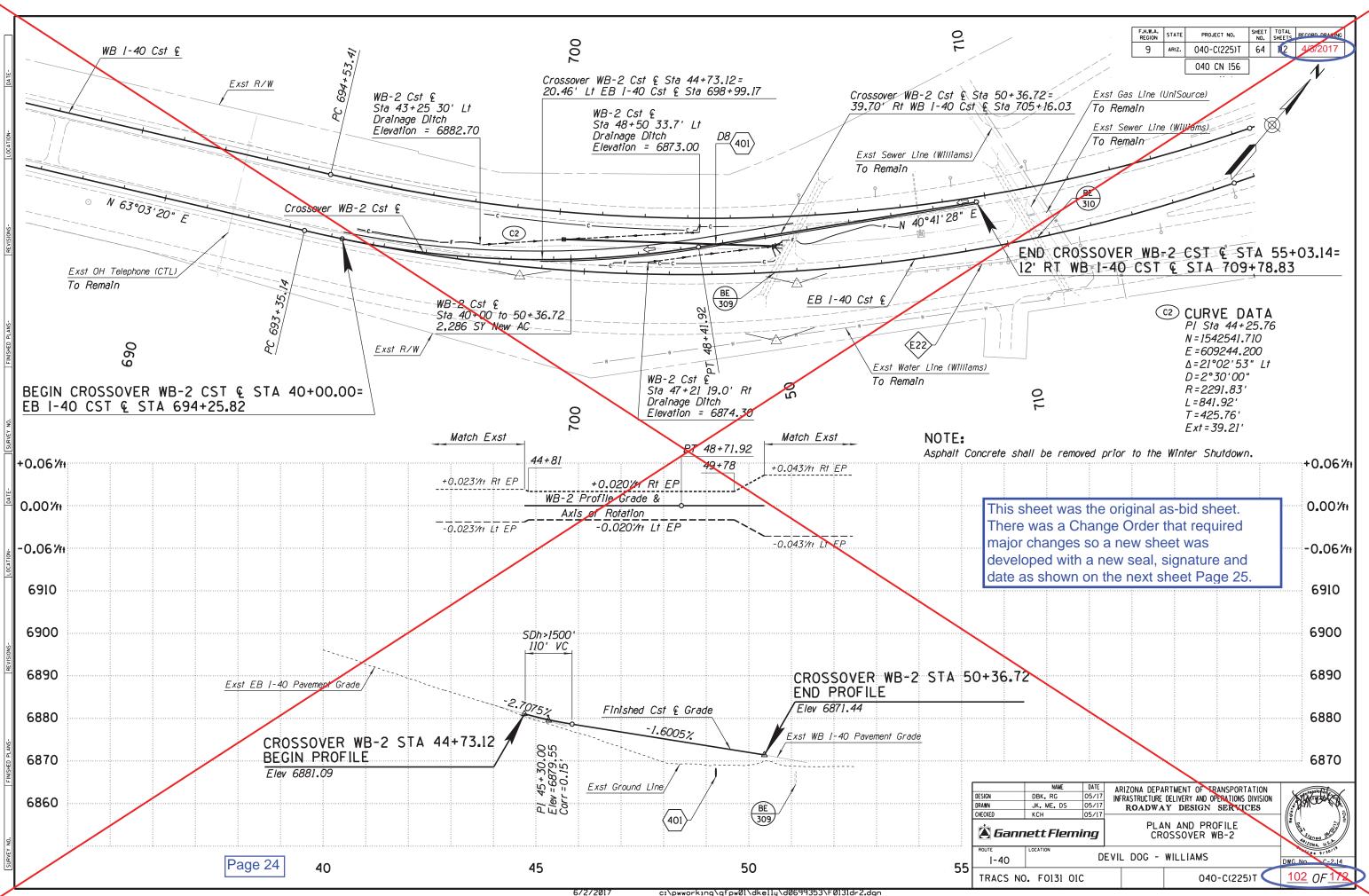
		MAINTENANCE OF TRAFFIC					
ACTIVITY NO	CONSTRUCTION ACTIVITY	TRAFFIC CONTROL					
3	Bridge rail work	Close adjacent lane per Sheets 33, 34 of these plans. Protect work zone with TCB. Reduce speed to 45 mph.	Day time work only. rail work shall be co				
4A	AR-ACFC Ramps	Temporarily close ramp and detour traffic per Sheet 35 of these plans and Figure SA-10 of ADOT TCDG. Use detour on Sheet 36 for Lupton Rd TI Ramp Closure.	Night work only at G Maintain traffic on w whenever work is not				
4B	AR-ACFC overlay travel lane	Maintain 1-lane traffic per Figure SA-5(R) of the Traffic Control Design Guidelines. Reduce speed to 45 mph. When working next to gore areas, temporarily close ramp and detour traffic per Sheet 35, 36 of these plans.	Maintain 2-lane traf Setup is to be taken				
4C	AR-ACFC overlay passing lane	Maintain 1-lane traffic per Figure SA-5(L) of the ADOT TCDG. Reduce speed to 45 mph.	Maintain 2-lane traff Setup is to be taken				
4D	Apply Fogcoat on the cross roads	Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10.	Maintain 2-lane traf Setup is to be taken				
4E	Fogcoat Rest Area Approach Road	Work shall be limited to one side of the roadway at a time. Maintain two-way traffic with a flagging operation. Traffic control shall be per MUTCD TA-10.	Day time work only. Setup is to be taken				
4F	Fogcoat Rest Area	Maintain the traffic circulation in the rest area. Work shall be phased such that there is access to parking spaces at all times.	Night time work only Setup is to be taken				
5	Permanent Striping	Mobile operation per Figure SA-18 of ADOT TCDG.					
			Note: The next				
6	Rumble strips and miscellaneous work	Provide traffic control per MUTCD TA-4.	several sheets v be omitted in thi example to redu file size and redundancy of				

Note: The order of construction activities does not constitute a sequence of construction. The contractor shall perform the work in the most expeditious manner consistent with the plans and special provisions with the approval of the Engineer. Any modifications to these plans shall require review and approval by the Engineer.

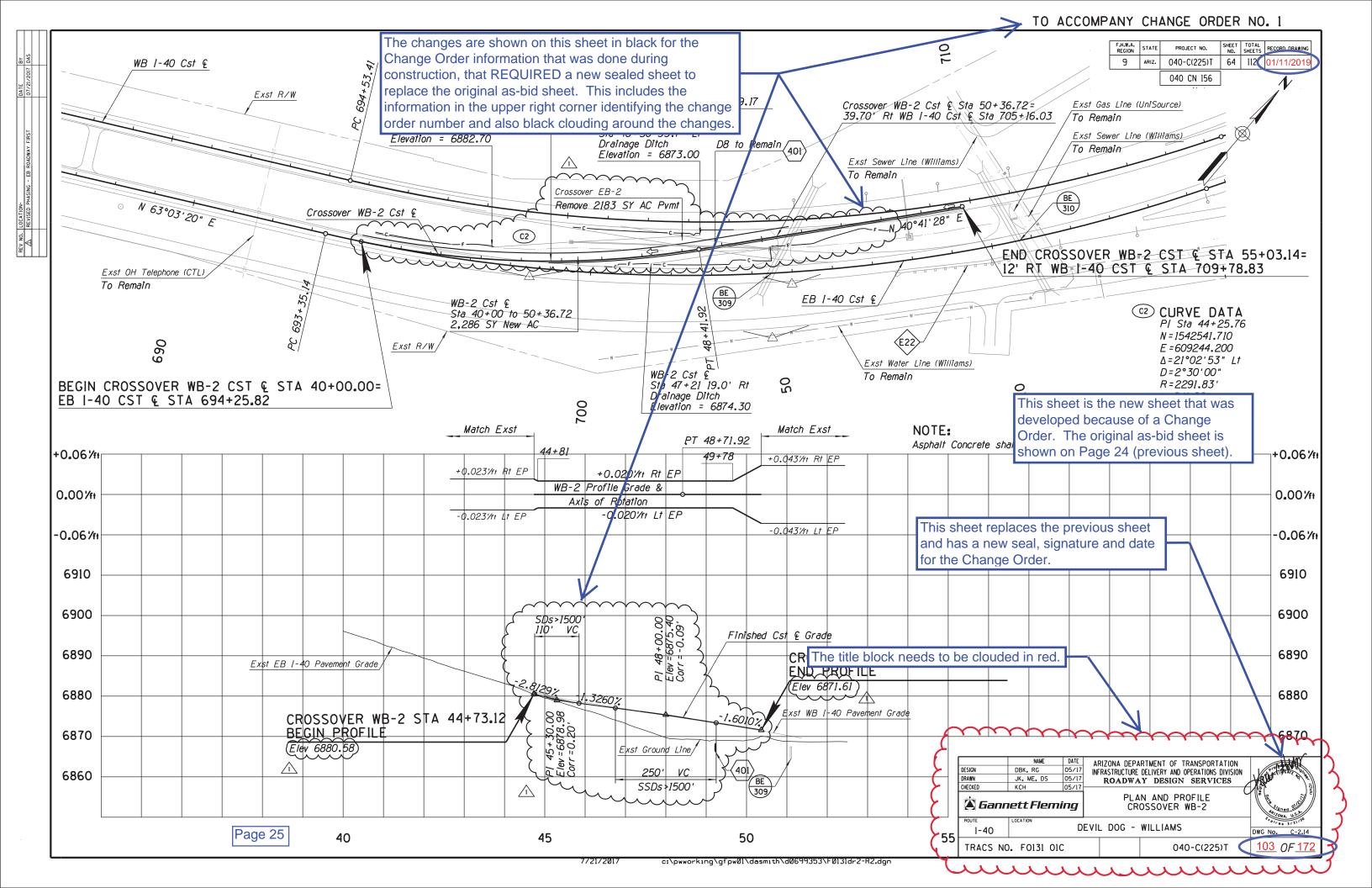
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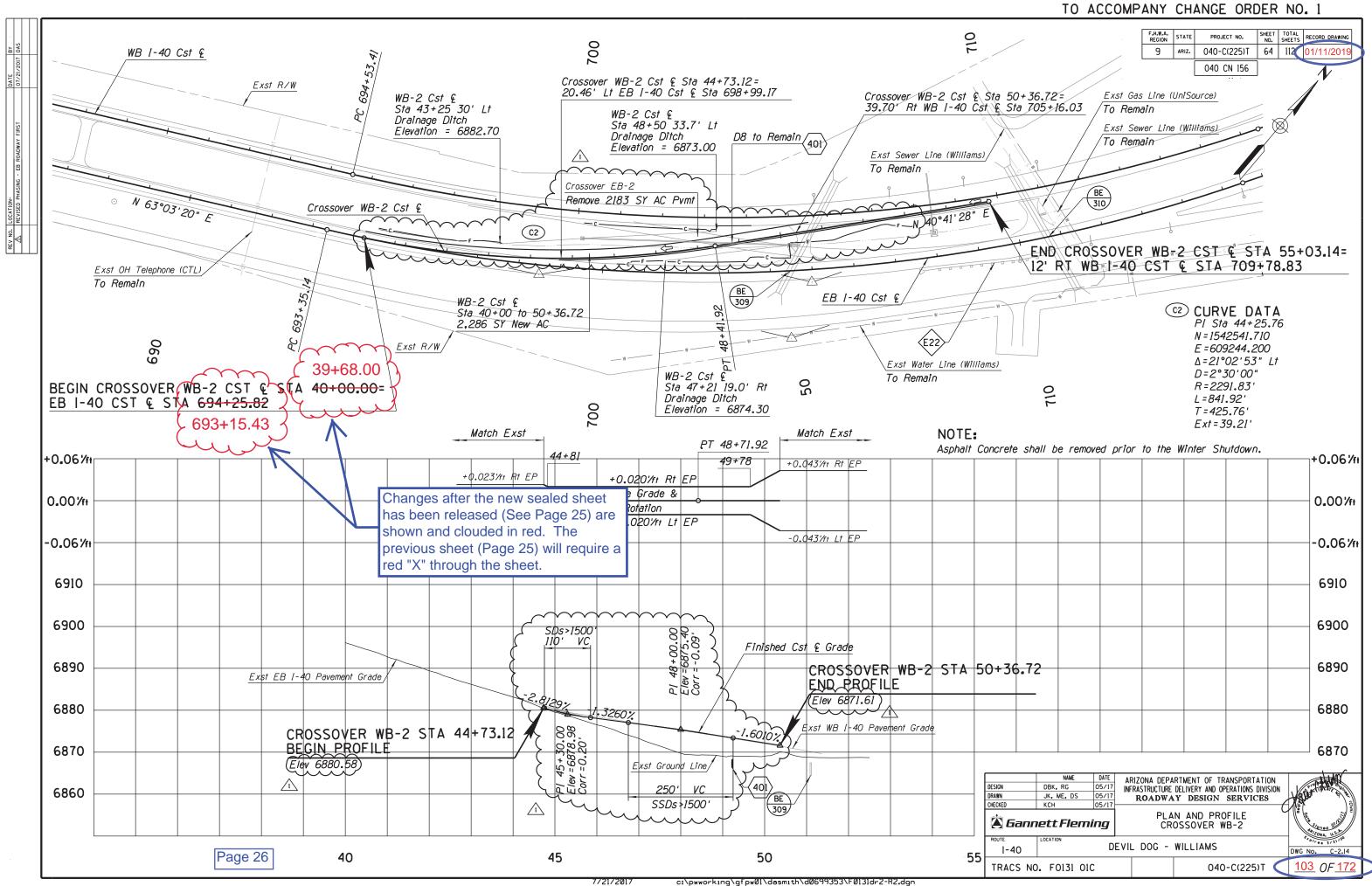


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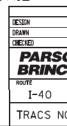


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#### GENERAL PAVEMENT MARKING NOTES:

- All striping shall be in compliance with the current ADOT Signing and Marking Standard Drawings and the Manual on Uniform Traffic Control Devices (MUTCD 2009 Edition as amended by the January 2012 ADOT Supplement).
- The pavement marking details are schematic only and not to scale. The contractor shall follow 2. all dimensions, details and standards when installing pavement markings and markers.
- 3. See the following ADOT standard drawings for striping details: M-15, M-16, M-18 and M-19.
- 4. All dimensions are in feet unless otherwise noted on the plans or the detailed drawings.
- 5. All striping dimensions are to the face of curb or edge of pavement, unless otherwise noted.
- The dimensions shown to pavement striping are to the center of the striping or in the case of 6. double striping to the center of the double striping.
- 7. The permanent pavement marking layout may be modified as directed by the Engineer.
- It is the contractor's responsibility to develop an "as-built" plan of the existing striping and have the plan approved by the Engineer before any construction activities.
- 9. At the completion of the final pavement surface each day, edge lines, center lines, lane lines, and stop bars covered by the new pavement shall be striped with one application of 4" wide standard reflectorized traffic paint at the location of the permanent striping. The paint shall have a maximum thickness of 15 mils wet (10 mils dry).
- 10. It is the contractor's responsibility to ensure that the final surface course is placed so that the striping is offset one foot clear of the construction joint, unless otherwise directed by the Engineer.
- 11. The contractor shall be responsible for the layout and installation of permanent pavement markings on the final surface course following control points that have been set no more than 50 feet apart along the lines to be striped.
- 12. The contractor shall clean the roadway surface to the satisfaction of the Engineer, by sweeping and air-jet blowing, immediately prior to the placement of all pavement markings. The roadway surface shall be dry. The air and pavement temperatures shall not be less than 40°F and the air temperature wind chill factor shall not be less than 35°F for the placement of epoxy pavement marking.
- 13. The final striping shall be two-part epoxy pavement marking placed at a minimum of 30 calendar days after completion of initial striping, or as directed by the Engineer. All other markings shall be applied at the same time. The two-part epoxy material shall conform to the specifications.
- 14. Freeway arrows shall be installed in accordance with Std Dwg M-12.
- 15. All final stop bars, pavement arrows, and transverse lines shall be two-part epoxy pavement markings.
- 16. All pavement markers shall have an abrasion-resistant coating on the face of the prismatic reflectors and shall conform to the details of Standard Drawing Number M-19. They shall be installed with a bituminous adhesive which is on the ADOT Approved Products List.
- 17. Where pavement markers are placed along solid striping, the nearest edge of each marker shall be offset from the nearest edge of the striping. Recessed pavement markers placed between double yellow striping shall be centered in the 6 inch gap between the lines.
- 18. All pavement markers shall be installed so that the reflective face of each marker is facing the direction of traffic and is perpendicular to the direction of traffic flow. Type C pavement markers shall be installed so that the clear reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow. Type E pavement markers shall be installed so that the yellow reflective face of each marker is facing approaching traffic and perpendicular to the direction of traffic flow.
- 19. The Contractor shall install ground-in rumble strips wherever the existing rumble strip is obliterated by milling or overlay work, except on concrete surfaces or on bridges with less than a half inch of AR-ACFC. The ground-in rumble strips shall conform to the details shown on Std Dwg M-22.

			F.H.W.A. REGION STAT	TE PROJECT NO.	SHEET TOTAL RECORD DRAWING		
			9 AR12	z. 040-E(218)T	38 62 4/3/2017		
				040-AP-353			
The Contractor shall dellneate all new gu be no measurement or payment for the g	quard rail end treatment de	elineation.					
The Contractor shall preserve all signs, those signs, markers and delineators dar	roadway object markers, maged as a result of the	milepost construc	markers and tion at the C	delineators an ontractor's exi	nd replace pense.		
All dashed lane lines and solid gore line	-						
The tape shall not be placed in a groove		Die Topo,	, see speerer	FI OVISIONS.			
The tape shall be placed in a groove.	~3						
APPROXIN	MATE PAVEMENT MA	ARKING	QUANTIT		\		
Description		Unit	Quantity	4" Equivalent	Item No.		
Permanent pavement marking	4" white 80,025	L.F <b>T</b> .	274,145	<del>271,115</del> )	7080001		
(painted)	4" yellow 63,437	L.FT.	122,875	<del>122,075</del> 5	70800 <u>11</u>		
	Parking symbol	EACH	2		7080111		
Dual component EPOXY pavement marking	6" white	L.FT.	<i>83,<u>1</u>40</i>	124,7 <u>1</u> 0	7090001		
, ,	6" yellow	L.FT.	78,586	117,890	7090002		
Dual component EPOXY transverse pavement marking	18" white	L.FT.	<u>21</u> 6	972	7090005 7090012		
	Freeway arrow	EACH	8	·!	7090012 7090012		
Pavement Marker	Parking symbol Type C, recessed	EACH EACH	1 585	, <b></b> /	7060100		
Paveinenn marker	Type C, recessed	EACH	1,585 150	·!	7060101		
	Type E, recessed	EACH	3,080	<b></b> ا	7060102		
Ground-in rumble strip	12"	L.FT.	126,720	·!	9280037		
Delineator (Flexible with concrete	Single white	EACH	120,720	·!	7030026		
foundation)	Single yellow	EACH	72	·!	7030026		
	Double white	EACH	8	i — – – – – – – – – – – – – – – – – – –	7030026		
	360° white	EACH	48	i – – – – – – – – – – – – – – – – – – –	7030026		
	360° Double yellow	EACH	24	1	7030026		
Object marker	(M-23) (Type 2)	EACH	5		7030082		
Preformed durable tape	6" white	L.FT.	15,820	23,730	7050022		
( <u> </u>	12" white	-L-ET-	9,750	-29,250	7050022		
Sawcut Groove for Striping (Diamond Blade)	6" White	L.FT.	17,401	28,364	9240210		
Grooves are 1/2" Wider & 1 foot longer than recessed stripe	12" White	L.FT.	10,725	33,569	9240210		
		ashed whi					
nt markers / EPOXY spacing / All	20' / Pretor	mea auro	able tape				
12'							
	= = = = = = EASTBOU	ND =>					
	/ 1/5.1						
10'							
	- 19 d helden						
Type C recessed // 6" s Pavement markersEPOX	solid white (Y						
at 40' spacing							
TYPICAL STRIPING							
	DESIGN SG DRAWN CPG	DATE 01/16 01/16	INTERMODAL T	MENT OF TRANSPORTA RANSPORTATION DIVISION DESIGN SERVICI			
PARSONS BRINCKERHOFF PAVEMENT MARKING QUANTITIES AND GENERAL NOTES							
ROUTE LOCATION Exp(res 03/3)/16							
	I-40 TRACS NO, H8781			NH-040-E(21)	SHEET 38 OF 62		
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			F.H.W.A. REGION STATE PROJECT NO. SHEET TOTAL NO. SHEETS RECORD DRAWDNG
		PART 2 - To be completed by ADOT &	CONTRACTOR 2 ARIZ. 040-E(218)T 39 62 4/3/2017 040-AP-353
PART 1 - To be completed by the Landscape	Architect or Design Engineer	Refer to: http://cfpub.epa.gov/npdes/stormwater/msgpenol http://cfpub.epa.gov/npdes/stormwater/swppp.cf	040-AP-353
A. Owner Name. Address and IRS Employee	MEASURES TO CONTROL EROSION AND SEDIMENT	I. SCHEDULE OF MAJOR ACTIVITIES	V. CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS
Identification Number (EIN): A.	Temporary Erosion and Sediment Controls: (Refer to the SWPPP Site Plan and	Start Date: 4/11/2016	A. This Storm Water Pollution Prevention Plan (SWPPP) has been prepared in accordance with the latest updated
Arizona Department of Transportation 205 South 17th Avenue Phoenix, Arizona 85007-3213	Specifications) ———— Erosion Control Mattings ———— Temporary Diversion Dikes	End Date: 8/14/2017	version of ADOT'S EROSION AND POLLUTION CONTROL MANUAL FOR HIGHWAY DESIGN AND CONSTRUCTION, published by ADOT Intermodal Transportation Division.
IRS Employee IdentIfication Number (EIN) for ADOT: 86-6004791	Check Dams Rock Inlet/Outlet Protection	B. Construction Sequencing Schedule: (Attach Additional Sheets) Construction Activities	<u>X</u> SWPPP is in compliance with other Federal, State Laws, or Local Regulations.
B. Project TRACS Number: <u>H8781 01 C</u>	SedIment Control Berms		VI. POLLUTION PREVENTION PLAN CERTIFICATION
C. Project Location <u>: I-40 &amp; Allentolon Rd</u> City: <u>Lupton</u> County: <u>Apache</u>	Wattles (Excelsior/Straw) Excelsior Logs / Sediment Logs		A. I certify under penalty of law that I have personally examined and am familiar with the information submitted
Beginning Latitude (NAD 83): <u>35° 17' 38,4" N</u>	Seeding (Class 11 with mulch) Others Describe;		in this application and all attachments and that, based
Beginning Longitude (NAD 83): <u>109° 08' 41,5" W</u> Ending Latitude (NAD 83): <u>35° 21' 47,5" N</u>		II. INVENTORY OF POLLUTANTS	on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and
Ending Longitude (NAD 83): <u>109° 02' 47.0" W</u>		A. The materials or substances checked	complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Applies to VI. B., C., and D)
		below are expected to be onsite during	B. The operator/contractor as defined in NPDES should sign
В.	Permanent Erosion and Sediment Controls and Post-construction Storm Water Management Measures: (Refer to SWPPP Site Plan and	<u>X</u> Concrete <u>X</u> Asphalt <u>X</u> Paints <u>X</u> FertIlizer	the SWPPP in accordance with CGP Part 7.2.15 and retain the SWPPP on-site at the construction site or other location easily accessible during normal business hours
D. Designt Description, Druckant successful	Specifications)	X Herbicides X Wood	easily accessible during normal business intersections Signature: (operator/contractor). Million Lung Date: 3/23/2016
D. Project Description: <u>Pavement preservation.</u> <u>on and off Ramps and Cross Roads at Three TI's</u>	Crown Ditch/Dike Rock Protection		Date: 3/23/2016 Name: Andrew Rice
Guardrail installation, curb embankment replacement			Title: Environmental Director ADOT District: Fann Contracting, Inc.
<u>and bridge railing replacement, spillway replacement</u> II. HYDROLOGIC INFORMATION	Embankment Curb Spillways and Downdrains	III. POLLUTION CONTROL MEASURES	LC ADOT Decident Festeren
A. Project Size: Length (Mi.) 5.81	———— Minibenching	A. Other Best Management Practices:	Signature: (owner)
Area (Ac.) <u>288.74</u>	<u>     X    </u> Seeding established as a perennial vegetative cover with a density	X.Solid Waste Management X.Equipment Maintenance Procedures	Title: - Gauge affiner anguiture
B. Area to be Graded (Ac. * <u>: 1.45</u> * Blading of the shoulder b <del>aild-up a</del> rea is	of 70% of the native background vegetative cover.	Leak proof pits/containers are included	ADOT District:
<ul> <li>Blading of the shoulder bandly area is considered as grading and ground disturbance and should be covered by stokmwater and/or</li> </ul>	Others Describe:	X Stabilized Construction Entrance	0. MUNICIPALITY for Municipal Separate Storm Sewer System (MS4)
other environmental regulations.		<u>X</u> Protected Chemical and Material Storage Area	Date:
C. Percentage of the site that is impervious before and after construction: Percentage before Construction, 22.8% VI.	MAINTENANCE AND INSPECTIONS	0ther, Describe:	Title:
	Frequency of Inspections:	IV. SPILL PREVENTION AND RESPONSE	VII. OTHER REQUIREMENTS
of Water Resources Web Link below (USGS Topo): https://gisweb.azwater.gov/WellRegistry/Default.aspx	Regular Inspection Frequency:	A. Spill Prevention:	A. A copy of the General Permit and NOI should be attached.
	At least once every 7 calendar days (weekly), 0R	The procedures outlined in the Best Management Practices listed under Pollution Control Measures will be	B. A copy of the page from the environmental clearance for the project that discusses endangered or threatened species should be attached.
<ul> <li>III. PRESERVAT Typically if more than 1 acre is being</li> <li>A. In accordance or graded, Part 2 of the SWPPP she</li> </ul>		followed to prevent and contain spills of hazardous material. These	C. Use the process in NPDES General Permit Appendix C (ESA Review Procedures) to determine eligibility prior to
Clearing limits be filled in. If this information is not	available or	preventative action include BMP's on equipment maintenance and proper	submittal of the Notice of Intent (NOI) for Endangered and Threatened Species and Critical Habit Protection.
that require outside the b is not required, an "X" through Part :	2 of this alendar days and within 24 hours	handing storage and disposal of	
area shall be construction sheet needs to be placed in red to in the area to b information was not provided, availa	ble or not	chemicals and materials. All manufacturer's recommendations for usage, clean-up and disposal shall followed.	D. A seven-day walting/review period between NOI submittal and authorization to begin construction will be used by U.S. Fish and Wildlife Service and National Marine Fisheries
and protected required	ERMINE DEPTH OF RAINFALL NOTE: The		Service to screen proposed construction activities for potential impacts on endangered species.
IV. SOIL STABILIER MERSONES	Inspection Procedure: ADOT's Contractor's Inspection Log at have been	the event of any accidental spill of	NAME DATE ARIZONA DEPARTMENT OF TRANSPORTATION
riprapped or otherwise covered to prevent erosion, will be revegetated and/or landscaped	Compliance Evaluation Report (CER) will in this exa	mple to ntact the ADOT Traffic Operations	DESIGN ACH 10/15 DRAWN CPG 10/15 CHECKED BGS 10/15
in accordance with the project plans and specifications.	representative and will be kept on f 3 years. A signed copy of the CER will sent to the ADOT resident engineer. and redun	SIZE Inter at 800-379-3701. If a reportable	PARSONS NPDES SWPPP INDEX SHEET
B. Scheduling of the revegetation effort can be found on PART 2 of this sheet under SCHEDULE		opened control and decament the opin	
OF MAJOR ACTIVITIES.	within 24 hours of the inspection relinformation	n the EPA ADOT's Hazardous Materials pecialist shall provide instructions.	I-40         ALLENTOWN RD         STATE LINE         SHEET 39 OF 62           TRACS NO. H8781 01 C         NH-040-E(218)T         52 OF 75
Page 28	1/12/2016 <b>T:</b> \\	-40\SWPPP\NPDES_SWPPP_Index_Sheet_2013.dgn	