

Delaware Department of Transportation
Plan Submission Checklist for Beam Bridges

Directions for Completing the Checklist

- This checklist indicates, in general, the content that should be included on each bridge specific plan sheet for beam bridge structures at each submission. Managers and designers should use engineering judgment to determine any additional information to be included or unnecessary information to be omitted.
- This checklist is to be completed in conjunction with the Department’s Construction Plan Submission Checklist.
- The checkboxes indicate that information is required and must be included in the plan submission.
- For each submission, indicate that the required information has been included in the plan submission by placing an “X” in the appropriate checkbox.
- Items may need to be added for some projects and may not be required for others. If the Project Manager determines an item is not required, place a strikethrough line through the item that is not required. Sheets that are not required may be deleted.
- Add a footer to this checklist once all unneeded sheets are deleted by selecting Document > Headers and Footers > add. Select a page range that includes all pages. Select Next. Place page number in the right footer by selecting insert “Page Number”. Select alternative “Page 1 of n” and then select OK.
- A TS&L Submission is only required for certain structures. Please refer to DeIDOT’s Bridge Design Manual for clarification.
- This checklist shall be reviewed before each submission to verify completeness. The designer shall sign this sheet attesting to the completeness and overall quality of the submission. A DeIDOT quality Assurance reviewer shall sign this sheet certifying the submission was reviewed in comparison with this checklist and that the submission has been determined to be complete. (Electronic Signature is Acceptable)

Project Information			
Contract #:		Primavera ID:	
Contract Name:			
Designer:		Project Manager:	

Verification of Submission Completeness		
Submission	Designer Approval	Quality Assurance Reviewer Approval
TS&L Plans		
Preliminary Plans		
Semi-Final Plans		
Final Plans		

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All Sheets				
	TS&L	Prelim	Semi	Final
General				
Title Block information in accordance with general Plan Submission Checklist (including DelDOT Assigned Bridge Number, Designed By, and Checked By boxes)				
All views in accordance with the Bridge Design Manual				
All CADD work in accordance with CADD Standards Manual				

Structure Location Map				
	TS&L	Prelim	Semi	Final
All projects with multiple structures shall have a Structures Location Map. This should be included on the Plan Sheet Index unless a separate sheet is necessary.				

Bridge Notes and Typical Sections				
	TS&L	Prelim	Semi	Final
Approved standard and bridge specific notes				
Index of Bridge Sheets				
Table of LRFR Ratings				
Typical Bridge Section				
Scale bar				
Show section view of the structure looking ahead station				
Number beam or girder lines				
Show any existing and proposed utilities				
Label and/or dimension the following:				
Label proposed beam or girder type				
Dimension beam or girder spacing				
Dimension overhangs				
Dimension out-to-out width of bridge				
Dimension travel lanes, shoulders, sidewalks, and parapets				
Label point of grade application (P.G.A.)				
Label baseline				
Label limits of concrete sealer				
Label cross slopes				
Label fencing or railing on parapets				

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General Plan & Elevation				
	TS&L	Prelim	Semi	Final
General Plan				
Scale bar				
Bridge Design North Arrow				
Show existing (if rehabilitation or phased construction) and proposed structures in appropriate line weights and line types including bridge, approach slab, and limits of wingwalls and/or MSE walls				
Construction baseline for roadway under bridge				
Show direction arrows for all travel lanes				
Include associated horizontal curve data				
Show flow arrow or tidal arrow and name of waterway under bridge				
Show limits and type of slope protection				
Show span numbers and span length dimensions				
Show all existing utilities and their disposition (relocated, DND, etc)				
Show all proposed utilities				
Show additional pertinent topographic features				
Label and/or dimension the following:				
Show and label roadway and construction baseline for roadway over bridge				
Label and dimension lanes, shoulders, and sidewalks over bridge				
Label and dimension lanes, shoulders, and sidewalks under bridge				
Label station equality and angle for intersecting baselines				
Label point of minimum vertical clearance over roadways or railroads				
Label centerlines of bearing for each substructure unit and angle at intersection of baseline				
Label approach guardrail/barrier				
Dimension backwall to backwall length				
Show and label soil boring locations				
Elevation				
Scale bar				
Show elevation view of the structure as a projection of the general plan				
Show existing and proposed ground lines				
Show any fencing or railing along parapet				
Show all bearing designations (Fix or Exp.)				
Show all applicable water surface elevations				
Show all existing and proposed utilities				
Show grading details under bridge				
Show span numbers and span length dimensions				
Vertical curve data				
Label and/or dimension the following:				
Label and dimension proposed lane widths, shoulder widths, cross slopes, and side slopes				
Label minimum vertical clearance over roadways or railroads				

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General Plan & Elevation				
	TS&L	Prelim	Semi	Final
Label proposed beam or girder type				
Label and dimension parapet				
Dimension backwall to backwall lengths				

Sequence of Construction (For Phased Construction)				
	TS&L	Prelim	Semi	Final
General				
The terminology (Stage II, Phase 2, etc.) must be consistent for all sheets (Highway and Structure)				
Sequence of Construction sheets are required for the superstructure and substructure portions of the bridge if work is being proposed for these elements				
Superstructure				
Show existing bridge typical with out to out, lane, shoulder, sidewalk, and parapet widths tied to the baseline of construction				
Draw subsequent stage construction typical directly beneath the existing typical (baseline of construction on the existing view lines up with the baseline of construction for stage construction typical) which indicate the location of traffic for each stage				
Show proposed lane, shoulder and sidewalk widths tied to the baseline of construction				
Show location of temporary barrier				
Show typical for Stage I removal with removal limits tied to the baseline of construction. Show separate typical for Stage I construction with build limits tied to the baseline of construction. Repeat for each subsequent stage				
Show gap between existing and proposed construction				
Identify requirements for mechanical rebar couplers or lap splices				
Show completed typical with out to out, lane, shoulder, sidewalk and parapet widths tied to the baseline of construction				
Substructure				
Show existing substructure units with column and stringer spacings				
Draw subsequent stage construction typical directly beneath the existing typical (baseline of construction on the existing view lines up with the baseline of construction for stage construction typical)				
Show proposed column and stringer spacings				
Show location of temporary pier cap supports				
Show typical for Stage I removal with removal limits tied to the baseline of construction. Show separate typical for Stage I construction with build limits tied to the baseline of construction. Repeat for each subsequent stage				
Show the location of any sheeting necessary to maintain the existing or proposed construction				

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Sequence of Construction (For Phased Construction)				
	TS&L	Prelim	Semi	Final
Show gap between existing and proposed construction. Identify requirements for mechanical rebar couplers or lap splices				
Show completed typical with column and stringer spacings				

Pile Details				
	TS&L	Prelim	Semi	Final
Use standard pile detail sheet				
Add project specific pile notes				
Cross out or delete unnecessary details or notes				

Abutments				
	TS&L	Prelim	Semi	Final
Abutment Plan				
Show baseline of construction with station and angle at intersection with center line of bearing				
Show all working points and include working point schedule				
Show North Arrow				
Show layout of proposed concrete abutment				
Show layout of MSE walls, wingwalls, and/or cheekwalls				
Show drainage system behind abutment stem and wing walls				
Show layout of beam seats along center line of bearing and label beam/girder numbers				
Show footing steps when necessary				
Show layout of wingwalls off baseline of construction				
Show location of utility opening(s) in back wall. Include proposed utilities and sleeve for future use				
Show location of construction joints for staged construction				
Show location of expansion and contraction joints				
Dimension all appropriate elements				
Identify location where typical section is cut				
Pile Layout Plan				
Show baseline of construction with station and angle at intersection with centerline of bearing				
Show pile legend				
Show all pile location points in a schedule				
Show North Arrow				
Show layout of proposed piles				
Identify test piles				

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Abutments				
	TS&L	Prelim	Semi	Final
Dimension and label proposed piles				
Show location of expansion and contraction joints				
Show location of construction joints for staged construction				
Reinforcement Plan				
Show baseline of construction with station and angle at intersection with centerline of bearing				
Show all working points				
Show North Arrow				
Show layout of proposed concrete abutment				
Show layout of reinforcing steel				
Label and dimension reinforcing steel (including clear cover)				
Show drainage system behind abutment stem and wing walls				
Show layout of beam seats along centerline of bearing				
Show footing steps when necessary				
Show layout of wing walls off baseline of construction				
Show location of utility opening(s) in back wall. Include proposed utilities and sleeve for future use				
Show location of construction joints for staged construction				
Show location of expansion and contraction joints				
Identify mechanical couplers or lap splices				
Dimension all appropriate elements				
Elevation				
Show existing and proposed ground lines				
Show P.G.A. and elevations along back wall at break points and label slopes				
Show elevation of masonry pads				
Number masonry pads to correspond with beam/girder lines				
Show masonry pad details				
Show MSE abutment walls and wingwalls				
Show MSE wall bottom of footing elevations				
Show architectural treatments of MSE Walls				
Show elevation of bottom and top of footing				
Show location of utility opening(s) in back wall. Include proposed utilities and sleeve for future use				
Show drainage system behind abutment stem				
Show location of construction joints for staged construction				
Show location of expansion and contraction joints				
Show footing steps when necessary				
Show abutment reinforcing steel				
Label and Dimension abutment reinforcing steel (including clear cover)				
Identify Mechanical Couplers or Lap Splices				
Show drainage system outlet				

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Abutments				
	TS&L	Prelim	Semi	Final
Show and dimension coarse aggregate layer				
Typical Section				
Show Typical Section through abutment with dimensions locating the centerline of bearing, etc				
Show limits of payment for footing concrete and substructure concrete				
Show appropriate details for integral and/or semi-integral abutments (end diaphragms, waterproofing, etc.)				
Show abutment drainage system				
Show and dimension coarse aggregate or subfoundation concrete layer				
Label and dimension abutment reinforcing steel (including clear cover)				
Show any piles (type and size) in footing				
Show location of bridge seat elevation at face of back wall				
Show abutment seat area sloped to drain at ¼" per foot from back wall to abutment face				
Include note: Top portion of back wall shall not be placed until entire bridge deck slab is complete in place				
Show center line of bearing and dimension back wall, stem, and footing widths off of it				
Label and dimension all shear keys and construction joints (separate detail may be necessary)				

MSE Walls				
	TS&L	Prelim	Semi	Final
Elevation				
Show elevation view of each MSE wall				
Dimension lengths, angles, slopes, and elevations at break points and top of leveling pad				
Identify any architectural treatments				
Include any special details required (special drainage layer, underdrain outlets, interaction with piles, etc.)				
Section				
Show Typical Section view of each MSE wall				
Dimension all necessary elements				
Show and dimension barriers in front of or on top of MSE Walls (may require additional details)				

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Wingwalls				
	TS&L	Prelim	Semi	Final
Elevation				
Show Elevation View of a typical wing wall				
Show an elevation view of all wing walls including lengths				
Show elevation of bottom and top of footing				
Show where Typical Section is cut				
Show drainage system behind wing wall stem				
Identify mechanical couplers or lap splices				
Show any fencing or railing on top of the wall or on top of the barrier on top of the wall				
Label and dimension wingwall reinforcing steel (including clear cover)				
Show location of expansion and construction joints				
Show existing and proposed ground lines				
Show and dimension coarse aggregate layer				
Typical Section				
Show Typical Section with stem, parapets, and surface treatment				
Show limits of payment for footing concrete, substructure concrete and parapet concrete				
Show location of optional or required construction joints				
Show abutment drainage system				
Show special MSE Wall details				
Show any piles (type and size) in footing				
Show any fencing or railing on top of the wing wall				
Label and dimension wingwall reinforcing steel (including clear cover)				
Show and dimension coarse aggregate layer				
Plan				
Show baseline of construction with station and angle at intersection with center line of bearing				
Show all working points and include working point schedule				
Show North Arrow				
Show layout of proposed wingwall footing				
Show drainage system behind abutment stem and wing walls				
Show layout of beam seats along center line of bearing				
Show footing steps when necessary				
Show layout of wingwalls off baseline of construction				
Show all pile location points in a schedule				
Show Layout of proposed piles				
Identify test piles				
Show location of expansion and contraction joints				
Dimension all appropriate elements				

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Piers				
	TS&L	Prelim	Semi	Final
Pile Layout Plan				
Show baseline of construction with station and angle at intersection with centerline of bearing				
Show pile legend				
Show all pile location points in a schedule				
Show North Arrow				
Show layout of proposed piles				
Identify test piles				
Dimension and label proposed piles				
Show location of expansion and contraction joints				
Show location of construction joints for staged construction				
Footing Plan				
Show baseline of construction with station and angle at intersection with center line of bearing				
Show all working points and include working point schedule				
Show North Arrow				
Show layout of proposed concrete pier footer				
Show layout of masonry pads along center line of bearing				
Show layout of concrete columns along centerline of bearing				
Show footing steps when necessary				
Show location of construction joints for staged construction				
Show location of expansion and contraction joints				
Label and dimension reinforcing steel (including clear cover)				
Dimension all appropriate elements				
Elevation				
Show elevation view of the type of pier proposed with any aesthetic treatments				
Show layout of columns tied to the baseline of construction				
Show elevation of top of pier and masonry pads				
Show elevation of bottom and top of footing				
Show where Typical Section is cut				
Show existing and proposed ground lines				
Show construction joints at the top and bottom of all columns with key size				
Show layout of stirrup and tie reinforcement				
Label and dimension reinforcing steel (including clear cover)				
Show location of construction joints for staged construction				
Show location of expansion and contraction joints				
Number masonry pads and provide pad elevations				
Dimension all appropriate elements				
Pier Cap Section				
Dimension pier cap				
Label and dimension reinforcing steel (including clear cover)				

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Piers				
	TS&L	Prelim	Semi	Final
Typical Column Section				
Dimension column including radius				
Label and dimension reinforcing steel (including clear cover and angular spacing of vertical bars)				
Masonry Pad Details				
Dimension masonry pad				
Label and dimension reinforcing steel (including clear cover)				

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Concrete Beam Framing Plan				
Note: Include this portion of the checklist on all concrete beam applications.	TS&L	Prelim	Semi	Final
Framing Plan				
North Arrow				
Show location of baseline of construction				
Layout of proposed beams or girders				
Number beam or girder lines				
Dimension appropriate elements including beam spacing and diaphragm spacing				
Identify and dimension shear connectors, tie rods, and/or diaphragms				
Show centerline of bearing and dimension skew angles				
Identify beam or girder type (i.e., PCEF 5547, etc.)				
Include framing plan notes as needed				
Shear Connector Details				
Include standard shear connector details – plan, elevation, and shear key detail				
Tie Rod Details				
Include standard tie rod detail				
Include standard washer plate				
Include tie rod end block detail				
Include tie rod connector detail if superstructure is to be built in phases				

Concrete Beam Details				
Note: Include this portion of the checklist on all concrete beam applications.	TS&L	Prelim	Semi	Final
Typical Section				
Dimension beam or girder				
Label and dimension prestressing steel (including clear cover)				
Identify harped or debonded strands				
Show location of harped strands at beam ends				
Typical Reinforcing Section				
Label and dimension reinforcing steel (including clear cover)				
Show location of prestressing strands				
Beam/Girder Notes				
Use approved notes				
Camber Diagram				
Use approved camber diagram				
Reinforcing Bar List				
Table of reinforcing bars including Quantity, Size, Length, Bar Mark, and Type (per beam/girder)				
Bending Diagrams showing bar types and their bends and dimensions				
Plan				
Dimension beam or girder				
Show centerline of bearing and dimension skew angles				
Show location of threaded inserts for diaphragms or tie rods				

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Concrete Beam Details				
Note: Include this portion of the checklist on all concrete beam applications.	TS&L	Prelim	Semi	Final
Elevation				
Dimension beam or girder				
Identify beam or girder type (i.e., PCEF 5547, etc.)				
Show centerline of bearing				
Show location of threaded inserts for diaphragms or tie rods				
Label and dimension reinforcing steel				
Show harped strand path or limits of debonded strands				
Identify sole plate				
Sole Plate Details				
Show sole plate and dimension as needed				
Include sole plate notes				
Bearing Pad Details				
Bearing notes				
Show plan and elevation views and dimension as needed				
Include additional bearing details as needed to show layout on abutments and piers				
Show typical bearing section				

Concrete Diaphragm Details				
Note: Include this portion of the checklist on all concrete beam applications.	TS&L	Prelim	Semi	Final
End Diaphragm Elevation				
Show elevation of diaphragm over abutments				
Show construction baseline				
Identify beam/girder spacing, abutment seat, masonry pad, bearing pad, threaded inserts, styrofoam filler, and deck				
Label and/or dimension the following:				
Dimension diaphragms				
Label and dimension reinforcing steel				
Label cross slopes on deck and across diaphragms				
End Diaphragm Section				
Show section of diaphragm over abutment				
Dimension diaphragm				
Label and dimension reinforcing steel				
Identify beam/girder, abutment seat, masonry pad, bearing pad, deck, approach slab, styrofoam filler, and expansion joint				
Identify optional construction joint				
Identify centerline of bearing and end diaphragm				
Intermediate Diaphragm Elevation				
Show elevation of diaphragm				
Show construction baseline				

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Concrete Diaphragm Details				
Note: Include this portion of the checklist on all concrete beam applications.	TS&L	Prelim	Semi	Final
Identify beam/girder spacing, threaded inserts, and deck				
Label and/or dimension the following:				
Dimension diaphragms				
Label and dimension reinforcing steel				
Label cross slopes on deck and across diaphragms				
Intermediate Diaphragm Section				
Show section of intermediate diaphragm				
Dimension diaphragm				
Label and dimension reinforcing steel				
Identify beam/girder, threaded inserts, and deck				
Identify centerline of diaphragm				
Pier Diaphragm Elevation				
Show elevation of diaphragm over abutment				
Show construction baseline				
Identify beam/girder spacing, pier cap, masonry pad, bearing pad, threaded inserts, styrofoam filler, and deck				
Label and/or dimension the following:				
Dimension diaphragms				
Label and dimension reinforcing steel				
Label cross slopes on deck and across diaphragms				
Pier Diaphragm Section at Beams/Girders				
Show section of diaphragm over the pier at the beams/girders				
Dimension diaphragm				
Label and dimension reinforcing steel				
Identify beam/girder, pier cap, masonry pad, bearing pad, threaded inserts, styrofoam filler, and deck				
Identify optional construction joint				
Identify centerline of bearings and diaphragm				
Pier Diaphragm Section between Beams/Girders				
Show section of diaphragm over the pier between the beams/girders				
Dimension diaphragm				
Label and dimension reinforcing steel				
Identify beam/girder, pier cap, masonry pad, bearing pad, threaded inserts, styrofoam filler, and deck				
Identify optional construction joint				
Identify centerline of bearings and diaphragm				
Dowel Detail				
Show standard dowel detail				
Label dowel, styrofoam, expansion sleeve, and grease coating				
Dimension appropriate elements				
Include dowel notes as needed				

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Steel Beam Framing Plan				
Note: Include this portion of the checklist on all steel beam applications.	TS&L	Prelim	Semi	Final
Framing Plan				
North Arrow				
Show location of baseline of construction				
Layout of proposed beams or girders				
Number beam or girder lines				
Dimension appropriate elements including beam spacing and diaphragm spacing				
Dimension skew angles of diaphragms				
Show centerline of bearing and dimension skew angles				
Identify beam or girder type (i.e., W44x290, 60" deep plate girder, etc.)				
Include framing plan notes as needed				
Include table of beam/girder lengths and radii for each beam/girder (curved girders)				
Bearing Pad Details				
Bearing notes				
Show plan, section, and elevation views and dimension as needed				
Include additional bearing details as needed to show layout on abutments and piers and connections to steel beams/girders				
Show typical bearing section				
Include pertinent bearing information for steel reinforced elastomeric bearing pads				

Steel Beam Details				
Note: Include this portion of the checklist on all steel beam applications.	TS&L	Prelim	Semi	Final
Beam or Girder Elevation				
Note which elements require additional charpy v-notch testing				
Label and/or dimension the following:				
Label and dimension beam or girder				
Label and dimension shear stud spacing				
Label and dimension splices				
Label and dimension bearing stiffeners				
Label any necessary welds				
Steel Notes				
Use approved notes				
Camber Diagram				
Use approved camber diagram and chart				
Painting Detail				
Use approved painting detail showing area of beam/girder to be painted				
Splice Details				
Show splices in as many different views as needed				
Dimension splice plates and splice bolts				

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Steel Beam Details				
Note: Include this portion of the checklist on all steel beam applications.	TS&L	Prelim	Semi	Final
Bearing Stiffener Details				
Dimension plates and welds for bearing stiffener				
Connection Plate Details				
Dimension plates and welds for connection plate(s)				
Corner Chamfer Detail				
Use standard corner chamfer detail showing required welds, dimensions, and chamfers				
Shear Stud Detail				
Use standard shear stud detail				
End Diaphragm Detail				
Detail connection plate if necessary				
Label and/or dimension the following:				
Label and dimension end diaphragm member or cross frame members				
Dimension center-to-center beam/girder spacing				
Label and dimension shear studs				
Label and dimension bolts and/or welds				
Intermediate Diaphragm Detail				
Detail connection plate if necessary				
Label and/or dimension the following:				
Label and dimension intermediate diaphragm member or cross frame members				
Dimension center-to-center beam/girder spacing				
Label and dimension bolts and/or welds				

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Concrete Deck Details				
	TS&L	Prelim	Semi	Final
Deck Plan				
North Arrow				
Show construction baseline				
Show centerline of abutments and piers and label skew angle				
Identify lap splices				
Identify RWIS puck locations				
Label and/or dimension the following:				
Dimension concrete deck				
Identify and dimension pours if multiple pours are required				
Label centerlines of beam/girder lines				
Label and dimension reinforcing steel				
Deck Section				
Show cross slopes				
Show construction baseline and identify P.G.A.				
Show edge beam section (if required) including reinforcing steel				
Label and/or dimension the following:				
Dimension concrete deck				
Label and dimension reinforcing steel (including barrier connection reinforcing)				
Label beams/girders and dimension spacing and overhangs				
Label v-notches, drip notches, parapets, limits of concrete sealer, and railings or fences				
Label shear keys				
Finished Deck Elevations				
Show plan view of proposed concrete deck				
North Arrow				
Show construction baseline				
Show centerline of abutments and piers and label skew angle				
Label and/or dimension the following:				
Label centerlines of beam/girder lines				
Label finished deck elevations at tenth points (each span) along each beam/girder				
Label parapet with joints				
Pouring Sequence				
Show plan view of proposed concrete deck				
North Arrow				
Number each deck pour				
Show direction of each pour				
Dimension each pour				
Show construction baseline				
Show centerline of abutments and piers and label skew angle				

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Concrete Deck Details				
	TS&L	Prelim	Semi	Final
Construction Joint Section				
Show section view of construction joint between pours				
Label and dimension construction joint and shear key				
Include note to roughen surface and add bonding agent to joint				
Stay-in-Place Form Details				
Use standard SIP Form Details				
Include SIP form notes				
RWIS Puck Details				
Use standard RWIS Puck and installation details				

Expansion Joint Details				
	TS&L	Prelim	Semi	Final
Plan				
Show centerline of bearings				
Show centerlines of beams/girders and label skew angle				
Label and dimension anchor studs (including spacing)				
Label and dimension anchor angles (including spacing)				
Show any change in angle at the parapet				
Show location where section is taken				
Elevation				
Show centerlines of beams/girders and label skew angle				
Label and/or dimension the following:				
Label and dimension beams/girders (including spacing)				
Label and dimension change in angle at the parapet				
Label and dimension diaphragms				
Dimension overall length, spacing of anchor studs, and spacing of anchor angles				
Section				
Show centerlines of bearings				
Note joint opening at 68°				
Include expansion joint notes				
Include standard steel extrusion detail				
Label and/or dimension the following:				
Label and dimension deck and approach slab				
Label and dimension construction joint in backwall				
Label and dimension anchor systems in backwall and diaphragms				
Label and dimension expansion joint system				

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Parapet and Safety Fence or Handrail Details				
	TS&L	Prelim	Semi	Final
Deck Parapet Elevation				
Show typical parapet section with deck in elevation view (more than one if end sections differ)				
Label and/or dimension the following:				
Dimension parapet section				
Label contraction joint				
Label and dimension reinforcing steel				
Label and dimension conduits				
Deck Parapet Section				
Show typical parapet section with deck in section view				
Label and/or dimension the following:				
Dimension parapet section				
Label and dimension reinforcing steel				
Label and dimension conduits				
Show and label deck connection reinforcement				
Label and dimension shear key				
Safety Fence Details				
Show standard safety fence details				
Handrail Details				
Show standard handrail details				
Junction Box Details				
Use standard junction box and installation details				
Conduit Details				
Use standard details for conduits exiting the parapet and for conduit expansion/contraction joints				

Concrete Approach Slab Details				
	TS&L	Prelim	Semi	Final
Approach Slab Plan				
North Arrow				
Show construction baseline				
Identify lap splices				
Show location of typical section				
Label and/or dimension the following:				
Dimension approach slab including haunches				
Show and dimension construction joints				
Label and dimension reinforcing steel				
Approach Slab Section				
Show approach slab in section view including haunches and shear keys				

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Concrete Approach Slab Details				
	TS&L	Prelim	Semi	Final
Label and/or dimension the following:				
Dimension approach slab				
Label and dimension reinforcing steel				
Label and dimension lap splices				
Construction Joint Detail				
Show construction joint in section view				
Label and/or dimension the following:				
Dimension approach slab including shear key				
Label and dimension reinforcing steel				
Show and label waterstop				
Side Haunch Detail				
Show approach slab side haunch and parapet in section view				
Label and/or dimension the following:				
Dimension approach slab				
Label and dimension reinforcing steel				
Label and dimension lap splices				
Label joint between approach slab and wingwall/barrier if applicable				
P.V.C. Waterstop Detail				
Show standard P.V.C. waterstop detail with dimensions				

Miscellaneous Details				
	TS&L	Prelim	Semi	Final
Miscellaneous Details (Moment Slab Details, Demolition Plan, etc.)				
Include all views needed to provide enough information for contractor to construct				

Reinforcing Bar List				
	TS&L	Prelim	Semi	Final
Reinforcing Bar List				
Use DelDOT reinforcing bar program				
Shade bar bends used in project				