

SECTION 802 STRUCTURAL EXCAVATION AND BACKFILL

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
BACKFILL	Reinforced Box Culverts	802.09(b) Proj. Engr.	Accept.	SEE SECTION 701 OF THIS MANUAL.						
	Structures other than Reinforced Box Culverts	802.09 Proj. Engr.	Accept.	----	----	----	----	----	----	Material shall be of acceptable quality and uniformly compacted by approved methods to the satisfaction of the Proj. Engr.
CONCRETE	Compressive Strength	802.09(e) Dist. Lab	*	Proj. Engr. S 301 TR 226	3 cyl/ location	6 in. x 12 in. cylinder mold	----	----	10 days	*Used to determine earliest date for placement of backfill next to structures.

I-108 2/07

SECTION 803 SHEET PILES

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
HARDWARE		803.02 1018.08 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/type/ shipment	2 of each item*	-----	-----	10 days	*Two (2) pieces of each size and type of hardware used are to be submitted.
PAINT AND PROTECTIVE COATINGS	Coal Tar Epoxy	803.02 803.06 1008.04	SEE SECTION 811 OF THIS MANUAL.							
SHEET PILES	Aluminum or Steel	803.02(b) 1010.10 Const. Fab. Insp.	Accept.	-----	-----	-----	CA 2	-----	-----	-----
	Precast Concrete	803.02(a) Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 805 of this manual.			CD 1	-----	-----	Visual inspection by Proj. Engr.
	Timber Treated & Untreated	803.02(c) 1014 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 812 of this manual.			CD 1 & 6	-----	-----	Visual inspection by Proj. Engr.
TREATMENT OF PILE HEADS		803.05	SEE SECTION 812 OF THIS MANUAL.							
WELDING			SEE SECTION 815 OF THIS MANUAL.							

I-109 2/07

SECTION 804 DRIVEN PILES

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD			CONTAINER			
BACKFILL	Granular Type Material	804.08(a) Dist. Lab	Accept.	Proj. Engr. S 101	1/1,000 yd ³	1 full sample sack	-----	-----	-----	Visual inspection by Proj. Engr. Sample only if questionable
CONCRETE PILES (Cast-in- Place)	Concrete (Mix Designs, Materials & Tests)	804.02 804.03	SEE SECTION 901 OF THIS MANUAL.							
	Reinforcing Steel	804.02 804.03 1009 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/grade/ 150,000 lb/ source	48 in. length	CA 1	-----	10 days	(QPL 71) *If listed on QPL 71, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.
	Steel Pipe Pile	804.03 1013.11 Proj. Engr.	Accept.	-----	-----	-----	CA 4	-----	-----	Visual inspection by Proj. Engr.
	Steel Shell	804.06 Proj. Engr.	Accept.	-----	-----	-----	-----	-----	-----	Visual inspection by Proj. Engr.
CONCRETE PILES (Precast)	Pile	804.02 805.14 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See Section 805 of this Manual.			CD 1 & 6	-----	-----	Visual inspection by Proj. Engr. For specific details see EDSM III.2.5.7.
HYDRAULIC JACKS		804.11 (g) (3) Mat. Lab	Accept.	Calibrated by an approved, independent calibration service and a certified lab report furnished to the Mat. Lab for approval and distribution to the Proj. Engr.			CA 5	-----	12 days	The system must be calibrated at the beginning of each project and as required.
PAINT AND PROTECTIVE COATINGS	Coal Tar Epoxy	804.02 804.07(b)(3) 1008.04	SEE SECTION 811 OF THIS MANUAL.							

I-110 2/07

SECTION 804 DRIVEN PILES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
STEEL PILES, STEEL PIPE PILES		804.02 1013.09 1013.11 Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	Visual inspection by Proj. Engr.
TIMBER PILES	Treated and Untreated	804.02 1014 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use. See Section 812 of this manual.			CD 1 & 6	----	----	Visual inspection by Proj. Engr.
TREATMENT OF PILE HEADS	Canvas	804.08(l)(3) 812.06(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	18 in. x 18 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Coal Tar Pitch, Creosote Oil, Asphalt & Copper Napthanate	804.08(l)(3) 812.06(b) Mat. Lab	Accept.	Proj. Engr. S 201	1/shipment*	1 qt friction top can	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Fabric Covering	804.08(l)(3) 812.06(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	18 in. x 18 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Galvanized Metal Covering	804.08(l)(3) 812.06(b) Mat. Lab	Accept.	Proj. Engr. S 501	1/shipment*	6 in. x 6 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Galvanized Nails, Staples & Wire	804.12 812.06(c) Mat. Lab	Accept.	Proj. Engr. S 501	1/size/type/ shipment*	12 of each item** wire - 24 in. length	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. **Twelve nails and twelve staples are to be submitted.
WELDING		SEE SECTION 815 OF THIS MANUAL.								

I-111 2/07

SECTION 805 STRUCTURAL CONCRETE

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
			METHOD		CONTAINER	DISTR.				
FOR DETAILS ON CONCRETE TESTS, MIX DESIGNS AND MATERIALS (ADMIXTURES, AGGREGATES, CEMENT AND WATER) SEE SECTION 901 OF THIS MANUAL.										
BACKFILL	802.09 805.01 Proj. Engr.	Accept.	SEE SECTION 802 OF THIS MANUAL.							
BEARING PADS	Electrometric	805.02 1018.14 Mat. Lab	Accept.	Const. Fab. Insp.* S 601	1/100 pads/type** /lot	1 pad	CA 5	----	14 days	(QPL 3) *Proj. Engr. sample at destination only if not sampled at site of source supplier. **Plain or Laminated.
	Masonry	805.02 1018.06 Mat. Lab	Accept.	Proj. Engr. S 601	1/type	1 pad	CA 5	----	10 days	----
BOX CULVERT UNITS (Precast)	Gasket Material	805.02 1006.06(b) Mat. Lab	Accept.	SEE SECTION 701 OF THIS MANUAL.			CC 1	----	----	(QPL 4) Gasket test report lab no. listed on precast unit CC.
	Precast Concrete Unit	805.02 805.03(b) 1016.02 MFR	Prelim. Source Approval	Inspected and stamped by MFR prior to use.			CD 1	----	----	(QPL 77) *Shall not exceed 300 joints. Each joint shall be stamped when approved.
				MFR S 301 S 601	1/300 joints/size or 3 consecutive days production/ size*	4 cyl/set 6 in. x 12 in. cylinder mold	----	----		
				805.02 805.03(b) 1016.02 Const. Fab. Insp. MFR	Verif	Const. Fab. Insp. S 601	1/180 day production/ plant	4 cyl/set 6 in. x 12 in. cylinder mold	----	
805.02 805.03(b) 1016.02 Proj. Engr.	Accept.	Inspected and stamped by MFR prior to use.			CD 1	----	----	(QPL 77) Visual Inspection by Proj. Engr. CD to include lot number for Gasket Materials.		
BRIDGE MEMBERS	Concrete Precast	805.14 Const. Fab. Insp.	Accept.	Proj. Engr. S 601	----	----	CD 1	----	Visual inspection by Proj. Engr. For specific details see EDSM III.2.5.7.	
CONCRETE ANCHOR SYSTEMS	Anchor Bolts	805.15 1018.23 Plans Mat. Lab	Accept.	Proj. Engr. S 601	1/size/ shipment	2 bolts*	----	----	11 days	*Two bolts of each size used are to be submitted.

I-112 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE ANCHOR SYSTEMS (Cont'd)	Cartridge Systems	805.15 1018.23 Mat. Lab	Accept.	Proj. Engr. S 601	1/size/type/ lot or shipment**	2 of each item*	-----	-----	14 days	(QPL 40) Includes bolts & nuts intended to be used with the system. *Two pieces of each size and type of item used are to be submitted. **Visual inspection by Proj. Engr. Sample only if questionable.
	Grout Systems (Resin or Cementitious)	805.15 1018.23 Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment	1 qt friction top can	-----	-----	14 days	(QPL 40) Includes bolts & nuts intended to be used with the system. Visual inspection by Proj. Engr. Sample only if questionable.
	Mechanical Systems	805.15 1018.23 Mat. Lab	Accept.	Proj. Engr. S 601	1/size/type/ lot or shipment**	3 of each item*	-----	-----	10 days	(QPL 40) *Three of each size and type of item used are to be submitted. **Visual inspection by Proj. Engr. Sample only if questionable.
CONCRETE (In-Place)	Compressive Strength	805.03(a),(c) 805.11 Dist. Lab	*	Proj. Engr. S 301 TR226	3 cyl/ structural member	6 in. x 12 in. cylinder mold			10 days	*To determine strength for form removal or exposure to construction traffic.
	Deck Surface Finish	805.13(d)(2) Contractor	Quality Control	Contractor*	each deck	-----	-----	-----	-----	Plastic Concrete *Surface must be checked on bridge decks using an approved 10 ft metal static straightedge supplied by the contractor.
		805.13(d)(2) Proj. Engr.	Verif.	Proj. Engr.	each deck	-----	-----	-----	-----	Proj. Engr. to observe contractor check bridge deck surface.
	Tine Texturing	805.13(d)(3) Contractor	Quality Control	Contractor TR 229	*	-----	-----	-----	-----	Plastic Concrete *Sufficient number of random checks to assure the required texture depth is achieved.
		805.13(d)(3) Proj. Engr.	Accept.	Proj. Engr. TR 229	2/lot	-----	-----	-----	-----	Performed on hardened concrete.

I-113 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CURING MATERIALS	Burlap Cloth	805.02 1011.01(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by the Proj. Engr. Sample only if questionable.
	Burlap & White Polyethylene Sheeting	805.02 1011.01(e) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Liquid Membrane-Forming Compounds	805.02 1011.01(a) Mat. Lab	Prelim. Source Approval	Mfr. S 601	1/6 months	1 qt friction top can	-----	-----	21 days	(QPL 65)
		805.02 1011.01(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	1 qt friction top can	CC 1	-----	10 days	(QPL 65) *Visual inspection by Proj. Engr. Sample only if questionable.
	Waterproof Paper	805.02 1011.01(c) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by the Proj. Engr. Sample only if questionable.
	White Polyethylene Sheeting	805.02 1011.01(d) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. x 36 in.	-----	-----	10 days	*Visual inspection by the Proj. Engr. Sample only if questionable.
EPOXY RESIN SYSTEMS	Epoxy	805.02 1017.02 Mat. Lab	Accept.	-----	1/lot or shipment	-----	CC 1	1 gal	-----	(QPL 32)
			Verif.	Proj. Engr. S 601	1/lot or shipment	1 qt each component friction top can	CC 1	1 gal	11 days	(QPL 32) Copy of CC shall be submitted with sample.
FORM RELEASE AGENTS		805.02 1018.24	Accept.	-----	-----	-----	-----	-----	-----	(QPL 29) Product verification by Proj. Engr.
GEOTEXTILE FABRIC		805.02 1019 Mat. Lab	Accept.	Proj. Engr. S 601	1/type/ source/ shipment	3 lin ft/roll width of fabric*	CC 1	150 yd ²	10 days	(QPL 61) *Sample a minimum of 18ft ² . Visual inspection, sample only if questionable.

I-114 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
JOINT MATERIALS	Adhesive-Lubricant	805.12(c)(2) 1005.03(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment	1 qt friction top can	-----	-----	10 days	(QPL 8) For use with preformed elastomeric compression joint seal. Mix well before sampling. Seal can tightly.
	Polyurethane Polymer	1005.02(b) Mat. Lab	Prelim. Source Approval	Dist. Lab S 611	1/batch or shipment	one unit of each component*	CA 7	-----	14 days	(QPL 5) *One unit of each component selected at random and submitted as sample.
		1005.02(b) Mat. Lab	Accept.	Proj. Engr. S 611	1/shipment*	-----	CD 1 & 7	-----	14 days	(QPL 5) *When material is accompanied by a CD, sample only if questionable.
		1005.02(b) Mat. Lab	Accept.*	Proj. Engr. S 611	1/batch or shipment	**	CA 7	2,000 yd ²	14 days	(QPL 5) *When material is not accompanied by a CD. **One unit of each component selected at random and submitted as sample.
	Reinforced Elastomeric Joint Seal	805.02 1005.06 Mat. Lab	Accept.	-----	-----	-----	CC & CA 3	-----	-----	Elastomer - CA; Steel - CC. Visual inspection by Proj. Engr.
	Steel Joint	805.02 805.12(f) Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See Section 807 of this Manual.			CA 6	-----	-----	Proj. Engr. to receive inspection report from Const. Fab. Insp.
	Strip Seal Joint	805.02 805.12(d) 1005.05 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See Section 807 of this Manual.			CA 6	-----	-----	Proj. Engr. to receive inspection report from Const. Fab. Insp.
NON-SHRINK GROUT		805.15 1018.26 Plans Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment/ lot	1 full sack, 15 lb min.*	-----	-----	16 days	(QPL 47) *Sample shall be submitted in an unbroken moisture proof sack.
PRECAST CONCRETE (Non-Prestressed other than Bridge Members)	Precast Unit	805.03 Proj. Engr.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use.			CD 1 & 6	-----	-----	CD must include Lab No. for gasket material if applicable.

I-115 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS		
			METHOD			DISTR.					
PRECAST CONCRETE (Non-Prestressed Other than Bridge Members) (Cont'd)	Admixtures	805.02 1011.02 Mat. Lab	Accept.	Const. Fab. Insp. S 601	1/type/mfr. batch	1 pt friction top can	CC 6	-----	10 days	(QPL 58) Visual inspection by Construction Fabrication Inspection.	
	Aggregate (Coarse & Fine)	805.02 1003.02 Dist. Lab	Accept.	Const. Fab. Insp. S 101	*	1 full sample sack	-----	-----	4 days	(QPL 2) *Visual inspection by Const. Fab. Insp. Sample only if questionable.	
	Cement	SEE SECTION 901 OF THIS MANUAL.					CD 1 & 6	-----	11 days	-----	
	Compressive Strength	805.03 Mfr.	Prelim. Source Approval	Const. Fab. Insp. or MFR S 301	1/pour*	Three 6 in. x 12 in. cylinder molds	-----	-----	30 days	*A pour is an identifiable pour not to exceed 50 yd ³ .	
		805.03 Dist. Lab	Accept.	Const. Fab. Insp or Proj. Engr	1/pour*	Three 6 in. x 12 in. cylinder molds	-----	-----	30 days	*A pour is an identifiable pour not to exceed 50 yd ³ .	
	Gasket Material	805.02	SEE SECTION 701 OF THIS MANUAL.					CD 1 & 6	-----	-----	-----
	Mix Design	805.02 901.06(a) Const. Fab. Insp.	Design	-----	1/class/ material source/plant	-----	-----	-----	-----	Contractor shall submit to Const. Fab. Insp. the standard mix design form indicating the intended source of all materials and mix design. Approval by Const. Fab. Unit. Engineer required prior to work.	
	Reinforcing Steel Bars	805.02 1009 Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/size/ grade/ 150,000 lb/ source	48 in. length	CA 6	-----	10 days	(QPL 71) Material with CA need not be sampled, unless questionable.	
Welded Wire Fabric	805.02 1009.01 Const. Fab. Insp.	Accept.	Const. Fab. Insp. S 501	1/shipment	48 in. x 48 in.	CA 6	-----	11 days	Sample only if questionable.		
PRECAST CONCRETE (Prestressed & Non-Prestressed Bridge Members)	Precast Unit	805.03 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. prior to use.			CD 1 & 6	-----	-----	CD must include lot no. for elastomeric bearing pads if applicable.	
	Admixtures	1011.02 Mat. Lab	Accept.	Const. Fab. Insp. S 601	1/type/mfr. batch	1 pt friction top can	-----	-----	10 days	(QPL 58)	

I-116 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
PRECAST CONCRETE (Prestressed & Non-Prestressed Bridge Members (Cont'd))	Aggregate (Coarse & Fine)	1003.02 Mfr.	Quality Control	Mfr. S 101	1/lot*	1 full sample sack	-----	-----	-----	(QPL 2) Gradation and Moisture. *Lot to be identifiable pour up to 200 yd ³ of concrete.
		1003.02 Dist. Lab or Const. Fab. Insp.	Accept.	Const. Fab. Insp. S 101	2/month*	1 full sample sack	-----	-----	3 days	(QPL 2) *Const. Fab. Insp. to witness manufacturer's QC testing.
	Cement	SEE SECTION 901 OF THIS MANUAL.					CD 6 & 7	-----	-----	-----
	Compressive Strength	805.14(e) Const. Fab. Insp.	Accept.	Const. Fab. Insp. S 301	7 cyl/pour*	-----	-----	-----	30 days	*Cylinder cured under same conditions as members. Two cylinders are tested for 28 day strength. For precast box culverts, cylinders shall be in accordance with ASTM C789.
	Elastomeric Bearing Pads	805.02 1018.14 Mat. Lab	Accept.	Const. Fab. Insp. S 601	1/100 pads/type/lot	1 pad	CA 5	-----	14 days	(QPL 3)
	Epoxy Resin Systems	805.02 1017.02 Mat. Lab	Accept.	Const. Fab. Insp. S 601	1/lot or shipment	1 qt/component friction top can	-----	-----	10 days	(QPL 32)
	Mix Design	805.02 901.06(a) Const. Fab. Insp.	Design	-----	1/class/ material source/plant	-----	-----	-----	-----	Contractor shall submit to Const. Fab. Insp. the standard mix design for indicating the intended source of all materials and the mix design. Approval by Const. Fab. Insp. required prior to work.
	Steel Bars & Spiral Reinforcement	805.02 1009 Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/size/grade/ 150,000 lb/ source	48 in. length	CA 6	-----	10 days	(QPL 71) Material with CA need not be sampled, unless questionable.

I-117 2/07

SECTION 805 STRUCTURAL CONCRETE (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
PRECAST CONCRETE (Prestressed & Non-Prestressed Bridge Members (Cont'd))	Strands for Prestressing	805.02 1009.05 Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/size/ grade/ source/proj.* per heat no.	3 strands 5 ft length	-----	-----	11 days	*Not to exceed 200 tons. Manufacturer's Load/Elongation curve to accompany sample.
	Welded Wire Fabric	805.02 1009.01 Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/shipment	48 in. x 48 in.	CA 6	-----	11 days	Visual inspection by Const. Fab. Sample if questionable.
PRECAST PRESTRESSED FORMS	Bearing Strips and Adhesive	805.14(k)(1)h	Accept.	-----	-----	-----	-----	-----	-----	Visual inspection by Proj. Engr.
	Concrete Deck Forms (Stay In Place Panels)	805.14(k) Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use. See precast concrete (Prestressed & Non-Prestressed Bridge Members) in this section.			CD 1	-----	-----	Visual inspection by Proj. Engr. For specific details see EDSM III.2.5.7.
REINFORCEMENT	Bars	805.02 1009	SEE SECTION 806 OF THIS MANUAL.							
SPECIAL SURFACE FINISH	Concrete	805.02 1011.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment*	1 qt. component friction top can	CC 1	-----	10 days	(QPL 14) *Visual inspection by Proj. Engr. Sample if questionable.
WATER STOPS	Copper	805.02 1005.08(a) Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment*	24 in. length	CA 3	-----	-----	*Visual inspection by Proj. Engr. Sample if questionable.
	Polyvinyl Chloride	805.02 1005.08(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	36 in. length	CC 3	-----	-----	*Visual inspection by Proj. Engr. Sample if questionable.
	Rubber	805.02 1005.08(c) Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment*	36 in. length	CA 3	-----	-----	*Visual inspection by Proj. Engr. Sample if questionable.

I-118 2/07

SECTION 806 REINFORCEMENT

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
REINFORCEMENT	Bars (Epoxy Coated)	806.02(b) 1009.01(f) Mat. Lab	Accept.	Proj. Engr. S 501	1/size/grade/ 150,000 lb /source	2 bars approx. 48 in. in length	CC 3	-----	10 days	(QPL 51) Cert. of Compliance provided by the applicator.
	Bars & Spirals	806.02 1009 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/grade/ 150,000 lb /source*	48 in. length	CA 1	-----	10 days	(QPL 71) *If listed on QPL 71, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.
		1009 Mat. Lab	Verif.	Proj. Engr. S 501	1/project	48 in. length	CA 1	-----	10 days	Sample most prevalent size & grade.
	Chairs or Metal Bar Supports	806.02(b) 1009.01(f) Mat. Lab	Accept.	Proj. Engr. S 501	1/type*	1 chair	-----	-----	-----	*Visual inspection by the Proj. Engr. Sample only if questionable.
	Patching Material (Epoxy Coated Bars)	806.02(a) 1009.01 1009.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/source	1 qt friction top can	CC 3	-----	10 days	(QPL 51)
	Stirrups, Tie Bars	806.02(a) 1009.03 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/ 150,000 lb*	2 of each item	CA 1	-----	10 days	(QPL 71) *If listed on QPL 71, material with a CA (Distr. 1) need not be sampled. Sample for verification if questionable.
SPLICING	Mechanical Butt Splice	806.07 Mat. Lab	Contractor Qualification	Proj. Engr. S 501	1/size*	3 splices/each size	-----	-----	10 days	(QPL 44) *Separate samples per horizontal and vertical positions. Test prior to use.
		806.07 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/25 splices*	1 splice 3 ft length	-----	-----	10 days	(QPL 44) *May be reduced to 1 per size per 100 splices after the first hundred splices.
	Welded Butt Splice	SEE SECTION 815 OF THIS MANUAL.								

I-119 2/07

SECTION 807 STRUCTURAL METALS

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
BEARING & EXPANSION	Bronze	807.02 1013.07(a) Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	Visual inspection by Proj. Engr.
	Copper-Alloy (Rolled)	807.02 1013.07(b) Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	Visual inspection by Proj. Engr.
	PTFE Bearing Assembly	807.46(c) Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	Visual inspection by Proj. Engr. Fabrication to be inspected in accordance with Standard Specification Subsection 807.05.
BEARING PADS	Elastomeric	807.46(a) 1018.14 Mat. Lab	Accept.	Const. Fab. Insp.* S 601	1/100 pads/type** /lot	1 pad	CA 5	----	14 days	(QPL 3) *Proj. Engr. samples at destination only if not sampled at site of source or supplier. **Plain or Laminated.
	Masonry	807.46 1018.06 Mat. Lab	Accept.	Proj. Engr. S 601	1/type/size	1 pad	CA 5	----	10 days	----
CASTINGS	Metal for Castings	807.02 1013.06 Const. Fab. Insp.	Accept.	Const. Fab. Insp. S 601	1/heat	1 test bar*	CA 6	----	----	*Const. Fab. Insp. may submit samples to Mat. Lab for testing if questionable.
	Unit	807.20 Const. Fab. Insp.	Accept.	----	----	----	CA 6	----	----	Proj. Engr. to receive form 4148 (Certificate of Cast Iron Covers, Grates, etc.) from Contractor.
CONCRETE ANCHOR STUDS		807.02 1013.24 Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	----
FASTENERS (Field Installation)	Bolts, Nuts & Washers	807.20 1013.08(a) Mat. Lab	Accept.	Proj. Engr. S 501	1/diameter/ shipment	2 of each item*	CC 1	----	10 days	*Two bolts, two nuts and 2 washers are to be submitted. Copy of CC to accompany sample and ID.

I-120 2/07

SECTION 807 STRUCTURAL METALS (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
FASTENERS (Field Installation) (Cont'd)	High Strength Bolts, Nuts & Washers and Tension Device Indicators	807.02 807.22 1013.08(b) Mat. Lab	Accept.	Proj. Engr. S 501	1/type/ diameter/ heat	2 of each item*	CA 1	----	10 days	*Two bolts, 2 nuts and 2 washers of each type and diameter are to be submitted. This shall include the tension device indicator. Copy of CA to accompany sample and ID.
	Rotational Capacity	807.21(d)	Accept.	Contractor	2 assemblies/ each combination bolt lot, nut lot & washer lot	----	----	----	----	----
	Steel Lockpins and Collars	807.02 1013.08(c) Mat. Lab	Accept.	Proj. Engr. S 501	1/lot or shipment	1 pin and collar	CC 1	----	10 days	Copy of CC to accompany sample ID.
FASTENERS (Shop Installation)	Bolts, Nuts & Washers	807.20 1013.08(a) Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/diameter/ shipment	3-of each item*	CC 4	----	10 days	Proj. Engr. to receive inspection report from Const. Fab. Insp. * Three bolts, 3 nuts and 3 washers are to be submitted. Copy of CC to accompany sample ID.
	High Strength Bolts, Nuts & Washers and Tension Device Indicators	807.21 1013.08(b) Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/type/ diameter/ heat	3 of each item*	CA 4	----	10 days	Proj. Engr. to receive inspection report from Const. Fab. Insp. * Three bolts, 3 nuts and 3 washers are to be submitted. This shall include the tension indicator device. Copy of CA to accompany sample of ID.
	Rotational Capacity	807.21(d)	Accept.	Fabricator	2 assemblies/ each combination bolt lot, nut lot & washer lot	----	----	----	----	----
	Steel Lockpins and Collars	807.02 1013.08(c) Mat. Lab	Accept.	Const. Fab. Insp. S 501	1/lot	1 pin and collar	CA 4	----	10 days	Proj. Engr. to receive inspection report from Const. Fab. Insp.
GROUT (Non-Shrink)		807.46 1018.27 Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment	1 full sack, 15 lb min.	----	----	16 days	(QPL 47) Sample shall be submitted in a unbroken, moisture proof sack.

I-121 2/07

SECTION 807 STRUCTURAL METALS (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		TESTED BY		METHOD		CONTAINER	DISTR.				
PAINT AND PROTECTIVE COATINGS		807.44 1008 Mat. Lab	SEE SECTION 811 OF THIS MANUAL.								
SHEAR CONNECTORS		807.02 807.42 1013.23 Const. Fab. Insp.	Accept.	----	----	----	CA 4	----	----	Shop and field inspection requirements per Specification Subsection 807.42.	
STEEL FORGINGS & SHAFTING		807.02 809.07 Const. Fab. Insp.	Accept.	Inspected and stamped by the Const. Fab. Insp. Unit prior to use.			----	----	----	Proj. Engr. to receive inspection report from Const. Fab. Insp.	
		Steel for Forging & Shafts	807.02 1013.04 Const. Fab. Insp.	Prelim. Source Approval	----	----	----	CA 6	----	----	----
STRUCTURAL STEEL & ALUMINUM		807.02 807.05 Const. Fab. Insp.	Accept.	Inspected and stamped by the Const. Fab. Insp. Unit prior to use.			----	----	----	Proj. Engr. to receive inspection report from Const. Fab. Insp.	
		Metal for Fabrication	807.02 1013 Const. Fab. Insp.	Prelim. Source Approval	Const. Fab. Insp. S 501	1/heat/grade*	Plates- 6 in. x 24 in. Shapes, bars, pipe and tubing - 24 in. length	CA 6	----	----	Test report to Const. Fab. Insp. only. *Sample only if questionable.
WELDING		SEE SECTION 815 OF THIS MANUAL.									
WRENCH		Calibrated Wrench	807.21(h)-(k) Proj. Engr.	Accept.	----	*	3 assemblies/ size	----	----	----	Contractor's calibration procedure to be witnessed by Proj. Engr. *See Specification Subsection 807.21(h)-(k) for frequency of calibration.
		Job Inspection Torque Wrench	807.21(h)(2) Proj. Engr.	Accept.	----	*	5 assemblies/ size	----	----	----	*See Specification Subsection 807.22(h)(2) for frequency of calibration.

I-122 2/07

SECTION 808 STEEL GRID FLOORING

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE (Structural)	Mix Designs, Materials & Tests	808.02								SEE SECTION 901 OF THIS MANUAL.
PAINT AND PROTECTIVE COATINGS		808.13 1008 Mat. Lab								SEE SECTION 811 OF THIS MANUAL.
STRUCTURAL STEEL	Flooring	808.02 1013.21 Const. Fab. Insp.	Accept	Inspected and stamped by the Const. Fab. Insp. Unit prior to use. See Section 807 of this manual.			CA 6	----	----	Proj. Engr. to receive inspection report from Const. Fab. Insp.
WELDING		808.12								SEE SECTION 815 OF THIS MANUAL.

I-123 2/07

SECTION 809 MOVABLE BRIDGES

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
		TESTED BY		METHOD		CONTAINER	DISTR.				
CONCRETE (Structural)	Mix Designs, Materials & Tests	809.38	SEE SECTION 901 OF THIS MANUAL.								Proj. Engr. to witness test for unit weight as per Specification Subsection 809.38 for counterweights. Bridge Design must approve calculations for determining unit weight.
ELECTRICAL EQUIPMENT	Brochures, Certified Dimension Sheets & Descriptive Data	801.03 809.04 809.05 Bridge Design		Bridge design approves and distributes to Proj. Engr. for all items listed in Bridge Electrical Equipment List.			----	----	----	No component shall be incorporated into the work without approval from Bridge Design.	
GUARANTY	Contractor's Guarantee	104.05 809.02 Proj. Engr.	Accept.	Proj. Engr. and Bridge Design approves and files.		----	----	----	----	----	
	Manufacturer's Standard Warranty	104.05 809.02 Proj. Engr.	Accept.	Proj. Engr. and Bridge Design approves and files.		----	----	----	----	----	
HARDWARE	Bolts, Fasteners, Fittings, Nuts, Washers & Misc. Hardware	809.07 1013.08 1018.08 Mat. Lab	Accept.	Proj. Engr.* S 501	1/size/type/ shipment	2 of each item**	----	----	10 days	*When sampled by Const. Fab. Insp. and listed on report to Proj. Engr., project samples are not required. **Two pieces of each size and type of hardware used are to be submitted.	
MAINTENANCE & OPERATION INSTRUCTION BOOKLETS		801.03(e)(2) 809.05 Bridge Design	Accept.	Proj. Engr. submits to Bridge Design for approval, then distributes in accordance wit EDSM III.2.5.6.			----	----	----	----	
MECHANICAL EQUIPMENT	Brochures, Certified Dimension Sheets & Descriptive Data	801.03 809.04 809.05 Bridge Design	Accept.	Bridge Design approves and distributes to Proj. Engr.			----	----	----	Proj. Engr. inspects materials and components to ensure conformance.	

I-124 2/07

SECTION 809 MOVABLE BRIDGES (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
MECHANICAL EQUIPMENT (Cont'd)	Parts List (Gears & Bearing in Gear Box)	809 Bridge Design	Accept.	Bridge Design approves and distributes to Proj. Engr.				----	----	----
OPERATING HOUSE (All Furnishings)	Brochures	809.04 Bridge Design	Accept.	Bridge Design approves and distributes to Proj. Engr.				----	----	----
PAINT AND PROTECTIVE COATINGS		809.09 807.44 1008	SEE SECTION 811 OF THIS MANUAL.							
POWER PLANT		809.36	SEE SECTION 730 OF THIS MANUAL.							
STRUCTURAL METALS		809.07 1013	SEE SECTION 807 OF THIS MANUAL.							
TRAFFIC BARRIERS	Drawings & Brochures	729.02 809.04 Bridge Design	Accept.	Bridge Design approves and distributes to Proj. Engr.				----	----	Structural Fabrication Inspect in accordance with Sections 729 & 807 of this manual.
WELDING			SEE SECTION 815 OF THIS MANUAL.							
WIRE ROPE & ATTACHMENTS	Counterweight Rope Assemblies	809.08 Const. Fab. Insp.	Accept.	Inspected and stamped by Const. Fab. Insp. Unit prior to use.				----	----	Proj. Engr. to receive inspection report on counterweight ropes and sockets from Const. Fab. Insp.
	Counterweight Ropes	809.08 1009.11 Mfr. & Const. Fab. Insp.	Prelim. Source Approval	Mfr. S 501	1/reel	2 ropes*	CA 6	----	----	*Two ropes per reel are to be submitted. Each rope length shall not be less than 25 times the rope diameter nor more than 12 ft.
	Sockets for Counterweight Ropes	809.08 1009.11 Mfr. & Const. Fab. Insp.	Prelim. Source Approval	Mfr. S 501	1/lot	4 sockets*	CA 6	----	----	*Four sockets for each lot are to be submitted. Tested with the counterweight rope sample.
	Wire Rope	809.08 1009.10 Mat. Lab	Accept.	Proj. Engr. S 501	1/type or class/shipment	6 ft length		----	11 days	Does not include counterweight ropes.

I-125 2/07

SECTION 810 BRIDGE RAILINGS AND BARRIERS

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MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
			METHOD			CONTAINER				DISTR.
FOR DETAILS ON CONCRETE AND ASSOCIATED MATERIALS, SEE SECTIONS 805 AND 901 OF THIS MANUAL AND SECTION 1012 OF THE STANDARD SPECIFICATIONS.										
HARDWARE	Galvanized Steel	810.02 1012.04 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/type/ shipment	2 of each item*	----	----	10 days	*Two pieces of each size and type of hardware used are to be submitted.
METAL CASTINGS, FITTINGS, POSTS & RAILINGS	Steel	810.02 1012.03 Const. Fab. Insp.	----	Inspected and stamped by the Const. Fab. Unit prior to use. See Section 807 of this manual.			CA 6	----	----	Proj. Engr. to receive inspection report from Const. Fab. Insp.
	Pipe (Galvanized)	810.02 1012.04 Const. Fab. Insp.	Accept.	Inspected and stamped by the Const. Fab. Unit prior to use. See Section 807 of this manual.			CA 6	----	----	Proj. Engr. to receive inspection report from Const. Fab. Insp.
PAINT AND PROTECTIVE COATINGS		810.03 1008	SEE SECTION 811 OF THIS MANUAL.							
WELDING			SEE SECTION 815 OF THIS MANUAL.							
SPECIAL SURFACE FINISH	Concrete	805.13(b) 1011.03 Mat. Lab	Accept.	Proj. Engr. S 601	1 lot or shipment*	1 each friction top can	CC 1	----	10 days	(QPL 14) *Visual inspection by Proj. Engr. Sample only if questionable.

I-126 2/07

SECTION 811 PAINTING AND PROTECTIVE COATINGS

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
			METHOD			CONTAINER				DISTR.
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 811. THERE ARE NO PAY ITEMS UNDER SECTION 811.										
PAINT AND PROTECTIVE COATINGS	Paint for Field Painting	811.03 811.10 1008 Mat. Lab	Prelim. Source Approval	Const. Fab Insp. S 604	1/batch	1 pt each component*	-----	-----	14 days	(QPL 68 & 78) *Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans.
			Accept.	Proj. Engr. S 604	1/batch	1 pt each component friction top can	CD* 1	-----	14 days	*Sample when not accompanied by CD. Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans. Sampling technique is sensitive, contact Dist. Lab prior to sampling.
	Galvanizing Repair Compound	811.03(c) 1008.05 Mat. Lab	Accept.	Proj. Engr. S 601	1/type*	1 bar, can or rod	-----	-----	-----	(QPL 23) *Visual inspection by Proj. Engr. Sample only if questionable.
	Paint for Shop Painting	811.03 811.09 1008 Mat. Lab	Prelim. Source Approval	Const. Fab Insp. S 604	1/batch	1 pt each component	-----	-----	14 days	(QPL 68 & 78) Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans.
			Accept.	Const. Fab Insp. S 604	1/batch	1 pt each component friction top can	CD*/CA** 6	-----	14 days	(QPL 68 & 78) *Sample when not accompanied by CD. Multiple component paints must be submitted in separate containers with the mixing proportions indicated on the sample identification and cans. Contractor to notify Bridge Design Engineer and Consultant Engineer of the paint system to be used prior to submitting shop drawings. **For inorganic zinc primers, showing slip coefficient.

I-127 2/07

SECTION 812 TREATED TIMBER

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
	TESTED BY		METHOD		CONTAINER	DISTR.			
CONNECTORS	812.02 1018.07 Mat. Lab	Accept.	Proj. Engr. S 501	1/type/ shipment*	1 of each item**	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. **One of each type of connector used is to be submitted.
CASTINGS	812.02 1013.05(a) 1013.06(a) Mat. Lab	Accept.	Proj. Engr. S 501	1/type/ shipment	1 of each item*	-----	-----	10 days	*One of each type of casting used is to be submitted.
HARDWARE & STRUCTURAL SHAPES	812.02 1018.08 Mat. Lab	Accept.	Proj. Engr. S 501	1/type/ shipment	1 of each item*	CA 3	-----	10 days	*One piece of each type and size of item used is to be submitted.
PAINT AND PROTECTIVE COATINGS	812.18	SEE SECTION 811 OF THIS MANUAL.							
ROOFING PITCH	812.02 1018.13 Proj. Engr.	Accept.	-----	-----	-----	-----	-----	-----	Visual inspection by Proj. Engr.
TIMBER & LUMBER (Treated)	812.02 1014 Const. Fab. Ins./ Mat. Lab	Accept.	Inspected and stamped (Hammered) by Const. Fab. Insp. Unit prior to use.			CD 1 & 6	-----	-----	Visual inspection by Proj. Engr.
	CCA & Petachlorophenol Treated, Creosote & Creosote solution Treated	812.02 1014 Const. Fab. Insp./MFG	Prelim. Source Approval	Const. Fab. Insp. AWPA	1/charge 20 borings plastic bottle	CC 6	-----	14 days	(One) 1 sample consist of 20 borings.
	Preservatives	812.02 1014 Mat. Lab	Accept.	Const. Fab. Insp. S 601	1/tank* 1 qt friction top can	CA 6	-----	14 days	*Visual inspection by Const. Fab. Insp. Sample only if questionable.

I-128 2/07

SECTION 812 TREATED TIMBER (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
Timber & Lumber (Treated) (Cont'd.)	Untreated Timber	812.02 1014 Const. Fab. Insp.	Prelim. Source Approval	Const. Fab. Insp. S 601	----	----	----	----	----	Visual inspection by Const. Fab. Insp. for soundness, dimensions and infestation.
TREATMENT OF PILE HEADS	Canvas	812.06(b) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	18 in x 18 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Coal Tar Pitch, Creosote Oil, Asphalt & Copper Napthanate	812.06(a) Mat. Lab	Accept.	Proj. Engr. S 201	1/shipment*	1 qt friction top can	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Fabric Covering	812.06(c) Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	18 in. x 18 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Galvanized Metal Covering	812.06(b) Mat. Lab	Accept.	Proj. Engr. S 501	1/shipment*	6 in. x 6 in.	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
	Galvanized Nails, Staples & Wire	812.06(c) Mat. Lab	Accept.	Proj. Engr. S 501	1/size/type/shipment*	12 of each item** Wire - 24 in. length	----	----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable. **Twelve nails and 12 staples are to be submitted.

I-129 2/07

SECTION 813 CONCRETE APPROACH SLABS

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS	
			METHOD			DISTR.				
FOR DETAILS ON CONCRETE TESTS, MIX DESIGNS AND MATERIALS (ADMIXTURES, AGGREGATES, CEMENT AND WATER) SEE SECTION 901 OF THIS MANUAL.										
AGGREGATES	Bedding Material	813.02 1003.08 Dist. Lab	Accept.	Proj. Engr. S 101	1/1,000 yd ³	1 full sample sack	-----	-----	4 days	-----
BEARING PILES	Timber	813.02 813.06 1014	Accept.	Inspected and stamped by the const. fab. Insp. Unit prior to use. See section 812 of this manual.			CD 1 & 6	-----	-----	Visual inspection by Proj. Engr.
CONCRETE (In-Place)	Compressive Strength	805.03(a) 805.03(c) 813.07 Dist. Lab	*	Proj. Engr. S 301	1/pour	Three 6 in. x 12 in. cylinder mold	-----	-----	-----	*To determine strength for form removal or exposure to construction traffic.
	Surface Tolerance	813.07 Contractor	Quality Control	-----	each slab	-----	-----	-----	-----	Plastic Concrete Surface must be checked using an approved 10 ft metal static straightedge supplied by the contractor.
		805.13(d)(2) 813.07 Proj. Engr.	Accept.	Proj. Engr. S 605	each wheel path, each traffic lane	entire lot	-----	-----	-----	For Plastic Concrete, Contractor must furnish an approved 10 ft metal static straightedge.
	Tine Texturing	813.08 Contractor	Quality Control	Contractor TR 229	*	-----	-----	-----	-----	Plastic Concrete. *Sufficient number of random checks to assure the required texture depth is achieved.
		805.13(d)(3) 813.08 Proj. Engr.	Accept.	Proj. Engr. TR 229	2/lot	-----	-----	-----	-----	Performed on hardened concrete.
CURING MATERIALS		813.07 1011.01 Mat. Lab	SEE SECTION 601 OF THIS MANUAL.							

I-130 2/07

SECTION 813 CONCRETE APPROACH SLABS (Cont'd)

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
GEOCOMPOSITE DRAINAGE SYSTEM	Wall Drain	813.02 1019.02 Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment	4ft ²	CA 5	-----	10 days	(QPL 62)
GEOTEXTILE FABRIC		813.03 1019.01 Mat. Lab	Accept.	Proj. Engr. S 601	1/type	3 lin ft/roll width of fabric*	CC 1	150 yd ²	10 days	(QPL 61) *Sample a minimum of 18 ft ² .
HARDWARE CLOTH		813.02 1018.22 Mat. Lab	Accept.	Proj. Engr. S 601	1/shipment*	18 in x 18 in.	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
JOINT MATERIAL	Preformed Closed Cell Polyethylene	813.02 1005.01(e) Mat. Lab	Accept.	Proj. Engr. S 601	1/5,000 lin ft/ Width	36 in. length	-----	-----	10 days	(QPL 18)
JOINT SEAL (Preformed)	Elastomeric Compression	813.02 1005.03 Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment	8 ft length*	CA** 1	-----	14 days	(QPL 6) *When width is over 2 in., 4 ft length is sufficient. **Proj. Engr. forwards CA with sample to Mat. Lab.
ADHESIVE LUBRICANT-	For Preformed Closed Cell polyethylene Joint Filler	813.02 1005.01(e)	Accept.	-----	-----	-----	-----	-----	10 days	(QPL 18) Visual inspection by Proj. Engr.
	For Preformed Elastomeric Compression Joint Seal	813.02 1005.03 Mat. Lab	Accept.	Proj. Engr. S 601	1 Project/lot	1qt friction top can	-----	-----	10 days	(QPL 8) Mix well before sampling. Seal can tightly.
POLYETHYLENE FILM		813.02 1011.01(d) Mat. Lab	Accept.	Proj. Engr. S 601	1/lot or shipment*	36 in. length	-----	-----	10 days	*Visual inspection by Proj. Engr. Sample only if questionable.
REINFORCING STEEL		813.02 1009.01 Mat. Lab*	Accept.	Proj. Engr. S 501	1/size/ source*	48 in. length	CA 1	-----	10 days	*If listed on QPL 71, material with a CA (Dist. 1) need not be sampled. Sample for verification if questionable.
UNDERDRAIN PIPE		813.04	SEE SECTION 703 OF THIS MANUAL.							

I-131 2/07

SECTION 814 DRILLED SHAFT FOUNDATIONS

MATERIAL		REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
		TESTED BY		METHOD		CONTAINER	DISTR.			
CONCRETE (Structural)		Mix Designs, Materials & Test	814.02	SEE SECTION 901 OF THIS MANUAL.						
GRANULAR MATERIAL	Pea Gravel or Granular Material	814.02 1003.07	Accept.	-----	-----	-----	-----	-----	-----	Visual inspection by Proj. Engr.
REINFORCEMENT		814.02 1009 Mat. Lab	Accept.	Proj. Engr. S 501	1/size/ source*	48 in. length	CA 1	-----	10 days	*If listed on QPL 71, material with a CA (Dist. 1) need not be sampled. Sample for verification if questionable.
SLURRY		814.12 Contractor	Quality Control	Contractor API 13B	as needed	-----	-----	-----	-----	-----
		814.12 Proj. Engr.	Accept.	Proj. Engr.*	-----	-----	-----	-----	-----	*Contractor tests to be observed by the Proj. Engr. & documented in field book.

I-132 2/07

SECTION 815 WELDING

MATERIAL	REF.	PURP.	SAMPLED BY	MIN. FREQ.	MIN. QUANT.	CERT.	SMALL QUANTITY	TYPICAL HANDLING TIME	REMARKS
			METHOD		CONTAINER	DISTR.			
THIS SECTION IS TO BE USED AS A GUIDE FOR OTHER ITEM NUMBERS WHEN REFERENCE IS MADE TO SECTION 815. THERE ARE NO PAY ITEMS UNDER SECTION 815.									
WELDING QUALIFICATION AND TESTING	Field	807.50 815.02 Proj. Engr.	Accept.	Welders and procedure qualified by licensed, bonded testing laboratory.		----	----	----	----
	Shop	807.23 815.02 Const. Fab. Ins.	Accept.	Qualified, inspected and approved by licensed, bonded testing laboratory prior to use.		----	----	----	Proj. Engr. receives inspection report from Const. Fab. Insp. Unit.

I-133 2/07