

Technical Owners

Last Update: January 2026

Drawing Number	Drawing Name	Technical Expert	Phone
BR100s			
BR115	Slope Paving	Alex Lim	971/283-5518
BR133	Trapezoidal Box Reinforcement	Tanarat Potisuk	971/283-5600
BR135	Access and Ventilation Hardware for Concrete Box Girders	Tanarat Potisuk	971/283-5600
BR136	Access and Ventilation Hardware and Concrete Reinforcement for Concrete Box Girders	Tanarat Potisuk	971/283-5600
BR139	Expansion Joint with Preformed Compression Seals	Tanarat Potisuk	971/283-5600
BR140	Expansion Joint With Poured Seals	Tanarat Potisuk	971/283-5600
BR141	Expansion Joint With Armor	Tanarat Potisuk	971/283-5600
BR145	Single Strip Seal Expansion Joint	Tanarat Potisuk	971/283-5600
BR157	Asphaltic Plug Joint Seal	Tanarat Potisuk	971/283-5600
BR165	Bridge End Panel	Alex Lim	971/283-5518
BR175	Cattle Guard	Alex Lim	971/283-5518
BR182	Truck Scale Pit	Alex Lim	971/283-5518
BR190	Horizontal Fall Arrest Lifeline Installation	Ray Bottenberg	503/551-7934
BR191	Horizontal Fall Arrest Lifeline Details	Ray Bottenberg	503/551-7934
BR192	Pipe Rail Fence – Sheet 1 of 2	Alex Lim	971/283-5518
BR193	Pipe Rail Fence – Sheet 2 of 2	Alex Lim	971/283-5518
BR195	Bridge ID Marker	Albert Nako	971/283-5558
BR200s			
BR200	Concrete Bridge Rail Type "F"	Alex Lim	971/283-5518
BR203	Transition Concrete Bridge Rail to Guardrail	Alex Lim	971/283-5518
BR206	2-Tube Curb Mount Rail	Alex Lim	971/283-5518
BR207	2-Tube Curb Mount Rail Transition	Alex Lim	971/283-5518
BR208	3-Tube Curb Mount Rail	Alex Lim	971/283-5518
BR209	3-Tube Curb Mount Rail Transition	Alex Lim	971/283-5518
BR212	Concrete Post and Beam Bridge Rail	Alex Lim	971/283-5518
BR214	Concrete Parapet with Steel Post	Alex Lim	971/283-5518
BR216	Sidewalk Mounted Combination Bridge Rail	Alex Lim	971/283-5518
BR220	Flush Mounted Combination Bridge Rail	Alex Lim	971/283-5518
BR221	32" Vertical Concrete Parapet	Alex Lim	971/283-5518
BR222	Vertical Concrete Parapet, 42 Inch	Alex Lim	971/283-5518
BR223	Combination Bridge Rail Details	Alex Lim	971/283-5518
BR226	2-Tube Side Mount Rail	Alex Lim	971/283-5518
BR230	2-Tube Side Mount Rail Transition	Alex Lim	971/283-5518
BR233	Thrie-Beam Rail and Transition	Alex Lim	971/283-5518
BR236	Trailing End Concrete Bridge Rail	Alex Lim	971/283-5518
BR240	Protective Fencing	Alex Lim	971/283-5518
BR241	Protective Fencing Details - 1	Alex Lim	971/283-5518
BR242	Protective Fencing Details - 2	Alex Lim	971/283-5518
BR246	Pedestrian Rail	Alex Lim	971/283-5518
BR250	Pedestrian Rail on Sidewalk Mounted Concrete Parapet	Alex Lim	971/283-5518
BR253	Sidewalk Mounted Concrete Parapet with Chain Link Fencing	Alex Lim	971/283-5518
BR256	Pedestrian Rail on Type "F" Concrete Bridge Rail	Alex Lim	971/283-5518
BR260	Chain Link Fencing on Type "F" Concrete Bridge Rail	Alex Lim	971/283-5518
BR263	Concrete Median Barrier at Bridge Expansion Joints (Type "F")	Alex Lim	971/283-5518
BR270	Rail Transition From Flex Beam Rail to Curb and Parapet Rail	Alex Lim	971/283-5518
BR273	Thrie-Beam Rail Retrofit For Curb and Parapet Rail Connection Details	Alex Lim	971/283-5518
BR275	Rail Buttress, 42 Inch	Alex Lim	971/283-5518
BR277	Historic Look Bridge Rail	Alex Lim	'971/283-5518
BR278	Historic Look Bridge Rail Sections and Wire Rope	Alex Lim	'971/283-5518
BR279	Historic Look Bridge Rail, Rail Post	Alex Lim	'971/283-5518
BR280	Historic Look Bridge Rail Intermediate, Post and End Block	Alex Lim	'971/283-5518
BR285	Type "F" Concrete Rail Tube Retrofit Sheet 1 of 3	Alex Lim	971/283-5518
BR286	Type "F" Concrete Rail Tube Retrofit Sheet 2 of 3	Alex Lim	971/283-5518
BR287	Type "F" Concrete Rail Tube Retrofit Sheet 3 of 3	Alex Lim	'971/283-5518
BR290	3'-6" Type "F" Rail	Alex Lim	971/283-5518
BR291	Transition 3'-6" Concrete Bridge Rail to Guardrail	Alex Lim	971/283-5518
BR295	Minimum Deflection Temporary Bridge Barrier	Emily Clyburn	971/374-3933
BR296	Minimum Deflection Temporary Bridge Barrier	Emily Clyburn	971/374-3933

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Drawing Number	Drawing Name	Technical Expert	Phone
BR300s			
BR300	Bulb-I (Precast Prestressed Concrete Girders)	Tanarat Potisuk	971/283-5600
BR310	Bulb-T (Precast Prestressed Concrete Girders)	Tanarat Potisuk	971/283-5600
BR321	BT90 and BT96 (Precast Prestressed Concrete Girders)	Tanarat Potisuk	971/283-5600
BR325	Type II-Prestressed Concrete Girders	Tanarat Potisuk	971/283-5600
BR330	Type III-Prestressed Concrete Girders	Tanarat Potisuk	971/283-5600
BR335	Type IV-Prestressed Concrete Girders	Tanarat Potisuk	971/283-5600
BR340	Type V- Prestressed Concrete Girders	Tanarat Potisuk	971/283-5600
BR350	Temporary Diaphragm Beam for Prestressed Concrete Girders	Tanarat Potisuk	971/283-5600
BR360	36" Deck Bulb-T (Precast Prestressed Concrete) Girder	Tanarat Potisuk	971/283-5600
BR365	45" Deck Bulb-T (Precast Prestressed Concrete) Girder - 1	Tanarat Potisuk	971/283-5600
BR375	60" Deck Bulb-T (Precast Prestressed Concrete) Girder - 2	Tanarat Potisuk	971/283-5600
BR400s			
BR400	12" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR405	15" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR410	18" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR415	21" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR420	26" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR422	30" Precast Prestressed Slab	Tanarat Potisuk	971/283-5600
BR425	33" Precast Prestressed Box	Tanarat Potisuk	971/283-5600
BR430	39" Precast Prestressed Box	Tanarat Potisuk	971/283-5600
BR435	42" Precast Prestressed Box	Tanarat Potisuk	971/283-5600
BR440	48" Precast Prestressed Box	Tanarat Potisuk	971/283-5600
BR445	Precast Prestressed Boxes and Slabs Details	Tanarat Potisuk	971/283-5600
BR500s			
BR500	Concrete Repair	Mats Halvardson	503/559-4594
BR505	Reinforcing Bar Repair	Mats Halvardson	503/559-4594
BR520	General Cathodic Protection Details	Andrew Blower	503/510-6213
BR525	Reinforcement Continuity Detail	Andrew Blower	503/510-6213
BR550	Rivet Replacement	David Dobson	971/900-7118
BR700s			
BR705	Standard Retaining Wall Cast-In-Place Semi-Gravity Front Face Batter	Sophie Brown	503/509-4538
BR706	Standard Retaining Wall Reinforcement Details Case I: Horizontal Backfill with 250 PSF Surcharge	Sophie Brown	503/509-4538
BR707	Standard Retaining Wall Reinforcement Details Case II: 3H:1V Inclined Backfill	Sophie Brown	503/509-4538
BR708	Standard Retaining Wall Reinforcement Details Case III: 2H:1V Inclined Backfill	Sophie Brown	503/509-4538
BR709	Standard Retaining Wall Cast-In-Place Semi-Gravity Joints and Details	Sophie Brown	503/509-4538
BR730	Standard Reinforced Concrete Masonry Sound Wall Details	Sophie Brown	503/509-4538
BR740	Standard Precast Concrete Panel Sound Wall Details	Sophie Brown	503/509-4538
BR750	Standard Masonry Sound Wall on Pile Footing	Sophie Brown	503/509-4538
BR751	Standard Masonry Sound Wall on Pile Footing Details	Sophie Brown	503/509-4538
BR760	Moment Slab With 32-Inch Type "F" Bridge Rail (Barrier Coping) on MSE Wall	Sophie Brown	503/509-4538
BR800s			
BR800	Box Culvert Wingwalls Details	Sophie Brown	503/509-4538
BR805	Box Culvert Extensions Details	Sophie Brown	503/509-4538
BR820	Cast-In-Place Concrete Box Culverts General Details 6X4 and 6X6	Sophie Brown	503/509-4538
BR825	Cast-In-Place Concrete Box Culverts General Details 8X4, 8X6, and 8X8	Sophie Brown	503/509-4538
BR830	Cast-In-Place Concrete Box Culverts General Details 10X6, 10X8, and 10X10	Sophie Brown	503/509-4538
BR835	Cast-In-Place Concrete Box Culverts General Details 12X6, 12X8, 12X10, and 12X12	Sophie Brown	503/509-4538
BR840	Standard Double Box Culverts Details	Sophie Brown	503/509-4538
BR841	Standard Double Box Culverts Details	Sophie Brown	503/509-4538
BR900s			
BR970	Luminaire Base on Structures with Mounting Details	Tanarat Potisuk	971/283-5600
BR971	Luminaire Base on Structures with Mounting Details 2	Tanarat Potisuk	971/283-5600
BR972	Underdeck Luminaire with Mounting Details	Tanarat Potisuk	971/283-5600
RD100s			
RD100	Mailbox Support	Chris Bores	503/354-7155
RD101	Mailbox Installation	Chris Bores	503/354-7155
RD110	Cattle Pass and Painted Cattle Guard	Chris Bores	503/354-7155

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RD115	Monument Box	Chris Bores	503/354-7155
RD120	Concrete Stairway	Chris Bores	503/354-7155
RD130	Bollards	Chris Bores	503/354-7155
RD140	Roadway Cross Slopes Super-elevated Sections	Chris Bores	503/354-7155
RD150	Slope Rounding	Chris Bores	503/354-7155
RD160	Maintenance Pad Details	Chris Bores	503/354-7155
RD170	Roundabout and Truck Apron Curb Placement	Bethany Veil	503/586-8750
RD200s			
RD250	Thrust Blocking	Chris Bores	503/354-7155
RD254	Hydrant Installation	Chris Bores	503/354-7155
RD255	Hydrant Bollard	Chris Bores	503/354-7155
RD258	Valve Box and Operator Extension Assembly	Chris Bores	503/354-7155
RD262	Typical Main Dead-End Blowoff Assembly	Chris Bores	503/354-7155
RD266	Manual Air-Release Assembly (3/4")	Chris Bores	503/354-7155
RD270	Combination Air Release Air Vacuum Valve Assembly (2" and Smaller)	Chris Bores	503/354-7155
RD274	3/4" - 2" Water Service Connection	Chris Bores	503/354-7155
RD278	Water Meter Assembly (Larger than 2")	Chris Bores	503/354-7155
RD282	Water Sampling Station	Chris Bores	503/354-7155
RD286	Root Barrier	Chris Bores	503/354-7155
RD300s			
RD300	Trench Backfill, Bedding, Pipe Zone & Multiple Installations	Chris Bores	503/354-7155
RD302	Street Cut	Chris Bores	503/354-7155
RD304	Arch Pipe Backfill/Compaction	Chris Bores	503/354-7155
RD306	Concrete Encasement, Cradle, and Cap Details	Chris Bores	503/354-7155
RD308	Bore Casing Detail	Chris Bores	503/354-7155
RD310	Shallow/Deep Trench Service Connection, Blocking and Markers	Chris Bores	503/354-7155
RD312	Subsurface Drain	Chris Bores	503/354-7155
RD316	Sloped Ends For Metal Pipes	Chris Bores	503/354-7155
RD317	Culvert Embankment Protection And Riprap Pads	Lu Saechao	971/374-3930
RD318	Sloped Ends For Concrete Pipe	Chris Bores	503/354-7155
RD319	Miscellaneous Culvert Details	Chris Bores	503/354-7155
RD320	Paved End Slope For Culverts 60" Maximum Pipe Size	Chris Bores	503/354-7155
RD321	Paved End Slope with Removable Safety Bar(s)	Chris Bores	503/354-7155
RD322	Safety End Section Metal Pipe	Chris Bores	503/354-7155
RD324	Safety End Section Concrete, PVC, HDPE, & Polypropylene Pipe	Chris Bores	503/354-7155
RD325	Coupling Bands For Corrugated Metal Pipe	Chris Bores	503/354-7155
RD326	Coupling Bands For Corrugated Metal Pipe	Chris Bores	503/354-7155
RD327	Coupling Bands For Corrugated Metal Pipe	Chris Bores	503/354-7155
RD328	Slotted C.M.P Drain Details	Chris Bores	503/354-7155
RD330	Pipe Slope Anchors - Metal	Chris Bores	503/354-7155
RD332	Pipe Slope Anchors - Concrete	Chris Bores	503/354-7155
RD334	Locator Post	Chris Bores	503/354-7155
RD335	Standard Storm Sewer Manhole	Chris Bores	503/354-7155
RD336	Standard Manhole Details	Chris Bores	503/354-7155
RD338	Standard Sanitary Sewer Manhole	Chris Bores	503/354-7155
RD339	Pipe to Structure Connections	Chris Bores	503/354-7155
RD340	Storm Sewer Pollution Control Manhole	Chris Bores	503/354-7155
RD342	Shallow Manholes	Chris Bores	503/354-7155
RD343	24" Manhole	Chris Bores	503/354-7155
RD344	Standard Manhole Base Section	Chris Bores	503/354-7155
RD345	Pipe to Manhole Connections	Chris Bores	503/354-7155
RD346	Large Precast Manhole	Chris Bores	503/354-7155
RD348	Manhole With Inlet	Chris Bores	503/354-7155
RD350	Sanitary Sewer Piped Inside Drop Connection For Manholes	Chris Bores	503/354-7155
RD352	Outside Drop Manholes	Chris Bores	503/354-7155
RD354	Carry Through Manhole-Storm	Chris Bores	503/354-7155
RD356	Manhole Covers And Frames	Chris Bores	503/354-7155
RD358	Manhole Slope Protectors	Chris Bores	503/354-7155
RD360	Manhole Frame Adjustment	Chris Bores	503/354-7155

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Drawing Number	Drawing Name	Technical Expert	Phone
RD362	Sanitary Cleanout	Chris Bores	503/354-7155
RD363	Gutter Transition At Inlet	Chris Bores	503/354-7155
RD364	Concrete Inlets Types G-1, G-2, G-2M, and G-2MA	Chris Bores	503/354-7155
RD365	Frames & Grates for Concrete Inlets	Chris Bores	503/354-7155
RD366	Concrete Inlets Type CG-1, CG-2	Chris Bores	503/354-7155
RD367	Curb Inlet Channel	Chris Bores	503/354-7155
RD368	Concrete Inlets Type M-E, M-O, B, and B-SL	Chris Bores	503/354-7155
RD370	Ditch Inlet Type D	Chris Bores	503/354-7155
RD371	Concrete Inlet Base Type CG-3	Chris Bores	503/354-7155
RD372	Concrete Inlet Top, Option 1 Type CG-3	Chris Bores	503/354-7155
RD373	Concrete Inlet Top, Option 2 Type CG-3	Chris Bores	503/354-7155
RD374	Area Drainage Basin or Field Inlet	Chris Bores	503/354-7155
RD376	Miscellaneous Drainage Structures Siphon Box, Inlet Cap, & Inlet Adjustment	Chris Bores	503/354-7155
RD378	Type "3" Catch Basin, Frame and Grate	Chris Bores	503/354-7155
RD380	Fill Height Tables For Aluminum and Steel Corrugated Pipe	Chris Bores	503/354-7155
RD382	Fill Height Tables For Aluminum and Steel Arch Pipe	Chris Bores	503/354-7155
RD384	Fill Height Tables For Aluminum and Steel Spiral Rib Pipe	Chris Bores	503/354-7155
RD386	Fill Height Table For Circular Concrete Pipe	Chris Bores	503/354-7155
RD388	Fill Height Tables For PVC Pipe	Chris Bores	503/354-7155
RD390	Fill Height Table For Corrugated HDPE Pipe	Chris Bores	503/354-7155
RD391	Fill Height Table For Steel Reinforced HDPE Pipe	Chris Bores	503/354-7155
RD393	Fill Height Table For Polypropylene Pipe	Chris Bores	503/354-7155
RD398	Culvert ID Marker	Rob Trevis	503/871-7163
RD399	Stormwater Treatment and Storage Facility Field Marker	Lu Saechao	971/374-3930
RD400s			
RD400	Guardrail and Metal Median Barrier (29" Rail Height)	Christopher Henson	971/208-4989
RD401	Midwest Guardrail System Rail Height Adjustment	Christopher Henson	971/208-4989
RD402	Midwest Guardrail System Types	Christopher Henson	971/208-4989
RD403	Midwest Guardrail System Wood Post and Block	Christopher Henson	971/208-4989
RD404	Midwest Guardrail System Steel Post and Block	Christopher Henson	971/208-4989
RD405	Guardrail and Metal Median Barrier Parts (29" Rail Height)	Christopher Henson	971/208-4989
RD406	Placement of Guardrail on Slopes	Christopher Henson	971/208-4989
RD407	Midwest Guardrail System (W-Beam)	Christopher Henson	971/208-4989
RD408	Midwest Guardrail System Metal Median Barrier (Double Sides)	Christopher Henson	971/208-4989
RD409	Thrie Beam Guardrail	Christopher Henson	971/208-4989
RD410	Thrie-Beam Guardrail Transition	Christopher Henson	971/208-4989
RD412	Midwest Guardrail System Installation at Bridge Deck Expansion Joint	Christopher Henson	971/208-4989
RD415	Guardrail and Metal Median Barrier Parts (29" Rail Height)	Christopher Henson	971/208-4989
RD416	Midwest Guardrail System Standard Hardware (Nuts, Bolts, Washers, and Misc.)	Christopher Henson	971/208-4989
RD417	Midwest Guardrail System End Sections	Christopher Henson	971/208-4989
RD419	Midwest Guardrail System Grading for Terminals	Christopher Henson	971/208-4989
RD420	Midwest Guardrail System Non-Flared Energy-Absorbing Terminal	Christopher Henson	971/208-4989
RD421	Midwest Guardrail System Flared Energy-Absorbing Terminal (MFLEAT)	Christopher Henson	971/208-4989
RD435	Guardrail Installation Terminal (Cut or False Cut) (29" Rail Height)	Christopher Henson	971/208-4989
RD436	Midwest Guardrail System Buried in Backslope (BIB) Terminal	Christopher Henson	971/208-4989
RD437	Midwest Guardrail System Buried in Backslope Terminal Anchor Parts	Christopher Henson	971/208-4989
RD438	Midwest Guardrail System Downstream Anchor Terminal (DAT)	Christopher Henson	971/208-4989
RD440	Guardrail Installation at Bridge Ends (29" Rail Height)	Christopher Henson	971/208-4989
RD442A	Midwest Guardrail System Placemeunts at Bridge Ends (Sheet 1 of 2)	Christopher Henson	971/208-4989
RD442B	Midwest Guardrail System Placemeunts at Bridge Ends (Sheet 2 of 2)	Christopher Henson	971/208-4989
RD443	Midwest Guardrail System Typical Layouts for Embankments	Christopher Henson	971/208-4989
RD444	Midwest Guardrail System Typical Layouts for Fixed Objects	Christopher Henson	971/208-4989
RD445	Guardrail Installation at R.R. Grade Crossings	Christopher Henson	971/208-4989
RD450	Guardrail Anchors (Steel)	Christopher Henson	971/208-4989
RD451	Wood Breakaway Posts	Christopher Henson	971/208-4989
RD470	Guardrail Over Low-Fill Culverts (29" Rail Height)	Christopher Henson	971/208-4989
RD471	Midwest Guardrail System Over Low-Fill Culverts Omitted Post	Christopher Henson	971/208-4989
RD472	Midwest Guardrail System Box Culvert Embedded Anchor Steel Post	Christopher Henson	971/208-4989
RD473	Midwest Guardrail System Box Culvert Bolt-Thru Anchor Steel Post	Christopher Henson	971/208-4989
RD474	Midwest Guardrail System With Curb And Omitted Post (Mash, TL-3)	Christopher Henson	971/208-4989

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Drawing Number	Drawing Name	Technical Expert	Phone
RD481	Midwest Guardrail System Height Conversion	Christopher Henson	971/208-4989
RD482	Midwest Guardrail System Type 3 (Nested W-Beam)	Christopher Henson	971/208-4989
RD484A	Midwest Guardrail System with Reduced Post Spacing Installation Detail (Sheet 1 of 2)	Christopher Henson	971/208-4989
RD484B	Midwest Guardrail System with Reduced Post Spacing Installation Detail (Sheet 2 of 2)	Christopher Henson	971/208-4989
RD486A	Short Thrie-beam Approach (MASH TL-3) Transition Overview (Sheet 1 of 4)	Christopher Henson	971/208-4989
RD486B	Short Thrie-beam Approach (MASH TL-3) Transition Details (Sheet 2 of 4)	Christopher Henson	971/208-4989
RD486C	Short Thrie-beam Approach (MASH TL-3) Rub Rail Connection (Sheet 3 of 4)	Christopher Henson	971/208-4989
RD486D	Short Thrie-beam Approach (MASH TL-3) Bent Rub Rail Details (Sheet 4 of 4)	Christopher Henson	971/208-4989
RD488A	Midwest Guardrail System Transition With Stom Drain (MASH TL-3) Installation (Sheet 1 of 3)	Christopher Henson	971/208-4989
RD488B	Midwest Guardrail System Transition With Stom Drain (MASH TL-3) Installation (Sheet 2 of 3)	Christopher Henson	971/208-4989
RD488C	Midwest Guardrail System Transition With Stom Drain (MASH TL-3) Installation (Sheet 3 of 3)	Christopher Henson	971/208-4989
RD490A	Short Radius Guardrail System (SRGS) Overview (Sheet 1 of 8)	Christopher Henson	971/208-4989
RD490B	Short Radius Guardrail System (SRGS) along Main Road (Sheet 2 of 8)	Christopher Henson	971/208-4989
RD490C	Short Radius Guardrail System (SRGS) along Side Road (Sheet 3 of 8)	Christopher Henson	971/208-4989
RD490D	Short Radius Guardrail System (SRGS) Eyebolt Spacing Details (Sheet 4 of 8)	Christopher Henson	971/208-4989
RD490E	Short Radius Guardrail System (SRGS) Eyebolt Spacing Details (Sheet 5 of 8)	Christopher Henson	971/208-4989
RD490F	Short Radius Guardrail System (SRGS) Alternate Radii (Sheet 6 of 8)	Christopher Henson	971/208-4989
RD490G	Short Radius Guardrail System (SRGS) Miscellaneous Details (Sheet 7 of 8)	Christopher Henson	971/208-4989
RD490H	Short Radius Guardrail System (SRGS) Miscellaneous Details (Sheet 8 of 8)	Christopher Henson	971/208-4989
RD500s			
RD500	32" Concrete Barrier Type "F" Precast	Christopher Henson	971/208-4989
RD501	32" Concrete Barrier Type "F" Precast	Christopher Henson	971/208-4989
RD502	32" Concrete Barrier Type "F" Precast	Christopher Henson	971/208-4989
RD503	Precast Concrete Barrier Pin and Loop Assembly For Temporary Installation and Maintenance Purposes Only	Christopher Henson	971/208-4989
RD505	Concrete Barrier Poured In Place	Christopher Henson	971/208-4989
RD510	Concrete Barrier Terminal For Posted Speed 45 MPH and Below	Christopher Henson	971/208-4989
RD515	Median Barrier Anchoring Details For Temporary Installation and Maintenance Purposes Only	Christopher Henson	971/208-4989
RD516	Securing Concrete Barrier to Roadway For Temporary Installation And Maintenance Purposes Only	Christopher Henson	971/208-4989
RD520	Cast In Place Concrete Barrier Transition To Concrete Bridge Rail	Christopher Henson	971/208-4989
RD526	Standard Concrete Barrier Buried In Backslope	Christopher Henson	971/208-4989
RD530	Guardrail Transition to Concrete Barrier For Temporary Installation And Maintenance Purposes Only	Christopher Henson	971/208-4989
RD535A	Concrete Barrier (Modified) Around Median Obstacle (Sheet 1 of 2)	Christopher Henson	971/208-4989
RD535B	Concrete Barrier (Modified) Around Median Obstacle (Sheet 2 of 2)	Christopher Henson	971/208-4989
RD545	Precast Tall (42") Concrete Barrier	Christopher Henson	971/208-4989
RD546	Precast Tall (42") Concrete Barrier	Christopher Henson	971/208-4989
RD548A	Precast Tall (42") Concrete Barrier wih Mod. Reinforcing (Sheet 1 of 2)	Christopher Henson	971/208-4989
RD548B	Precast Tall (42") Concrete Barrier wih Mod. Reinforcing (Sheet 2 of 2)	Christopher Henson	971/208-4989
RD550	Cast-In-Place Tall Concrete Barrier Transition To Concrete Bridge Rail	Christopher Henson	971/208-4989
RD560	Cast-In-Place Tall Barrier Transition to Standard Concrete Barrier	Christopher Henson	971/208-4989
RD570	Guardrail Connection to Tall Concrete Barrier	Christopher Henson	971/208-4989
RD575	Tall Concrete Barrier (Modified) Around Median Obstacle	Christopher Henson	971/208-4989
RD576	Tall Concrete Barrier (Modified) Around Median Obstacle	Christopher Henson	971/208-4989
RD580	31" Guardrail Transition to Concrete Barrier	Christopher Henson	971/208-4989
RD581	31" Guardrail Transition to Tall Concrete Barrier	Christopher Henson	971/208-4989
RD582	Midwest Guardrail System Transition to Anchored Concrete Barrier (MASH TL-3)	Christopher Henson	971/208-4989
RD590	35" Concrete Median Barrier Cast-In-Place	Christopher Henson	971/208-4989
RD595	32" Precast Type "F" Concrete Barrier with Scuppers	Christopher Henson	971/208-4989
RD596	32" Precast Type "F" Concrete Barrier with Scuppers Reinforcing	Christopher Henson	971/208-4989
RD600s			
RD602	Shared Use Path Pavement Details	Chris Bores	503/354-7155
RD610	Asphalt Concrete Pavement (ACP) Details	Chris Bores	503/354-7155
RD615	Surface Edge Details	Chris Bores	503/354-7155
RD700s			
RD700	Curbs	Chris Bores	503/354-7155
RD701	Drainage Curbs	Chris Bores	503/354-7155
RD702	Bike Lane Curbs	Rodger Gutierrez	503/586-6652
RD705	Islands	Chris Bores	503/354-7155
RD706	Traffic Separators and Transitions	Chris Bores	503/354-7155
RD707	Island Nose Treatments	Chris Bores	503/354-7155
RD710A	Accessible Route Islands	Taundra Mortensen	503/400-4256

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Drawing Number	Drawing Name	Technical Expert	Phone
RD710B	Accessible Route Islands	Taundra Mortensen	503/400-4256
RD711	Accessible Route Channelized Islands	Taundra Mortensen	503/400-4256
RD715	Approaches and Non-Sidewalk Driveways	Chris Bores	503/354-7155
RD720	Curb Line Sidewalks	Taundra Mortensen	503/400-4256
RD721	Separated Sidewalks	Taundra Mortensen	503/400-4256
RD722	Sidewalk Joints and Transition Panels	Taundra Mortensen	503/400-4256
RD725	Separated Sidewalk, Driveways, or Alleys (Options A, B, and C) ODOT Highways	Chris Bores	503/354-7155
RD730	Curb Line Sidewalk, Driveways, or Alleys (Options D and E) ODOT Highways	Chris Bores	503/354-7155
RD735	Curb Line Sidewalk, Driveways, or Alleys (Options F and G) ODOT Highways	Chris Bores	503/354-7155
RD740	Separated Sidewalk, Driveways, or Alleys, (Options H, I, and J) Local Jurisdictions	Chris Bores	503/354-7155
RD745	Curb Line Sidewalk, Driveways, or Alleys (Options K and L) Local Jurisdictions	Chris Bores	503/354-7155
RD750	Curb Line Sidewalk, Driveways, or Alleys (Options M and N) Local Jurisdiction	Chris Bores	503/354-7155
RD770	Metal Handrail	Chris Bores	503/354-7155
RD771	Metal Handrail Details	Chris Bores	503/354-7155
RD780	Aluminum Pedestrian Fence (MASH, TL-2)	Chris Bores	503/354-7155
RD781	Aluminum Pedestrian Fence Unit Details	Chris Bores	503/354-7155
RD782	Aluminum Pedestrian Fence Components Details	Chris Bores	503/354-7155
RD800s			
RD810	Barbed and Woven Wire Fences	Chris Bores	503/354-7155
RD815	Chain Link Fence	Chris Bores	503/354-7155
RD820	Fence Gates	Chris Bores	503/354-7155
RD825	Metal Snow Fence	Chris Bores	503/354-7155
RD830	Wildlife Fence Installation	Chris Bores	503/354-7155
RD832	Wildlife Fence Access Gate	Chris Bores	503/354-7155
RD835	WildLife Fence with Anti-Burrow Apron	Chris Bores	503/354-7155
RD840	Wildlife Fence Miscellaneous Details	Chris Bores	503/354-7155
RD845	Wildlife Escape Ramps (Jumpouts)	Chris Bores	503/354-7155
RD900s			
RD900	Curb Ramp Components And Legend	Taundra Mortensen	503/400-4256
RD901	Curb Ramp Legend And Corner Identification	Taundra Mortensen	503/400-4256
RD902	Detectable Warning Surface Details	Taundra Mortensen	503/400-4256
RD904	Detectable Warning Surface Placement For Curb Ramps	Taundra Mortensen	503/400-4256
RD905	Detectable Warning Surface Placement For Directional Curbs	Taundra Mortensen	503/400-4256
RD906	Detectable Warning Surface Placement For Accessible Route Island	Taundra Mortensen	503/400-4256
RD908	Detectable Warning Surface Placement	Taundra Mortensen	503/400-4256
RD909	Detectable Guide Strip Placement at Bike Ramps	Taundra Mortensen	503/400-4256
RD910	Perpendicular Curb Ramp	Taundra Mortensen	503/400-4256
RD912	Perpendicular Curb Ramp	Taundra Mortensen	503/400-4256
RD913	Perpendicular Curb Ramp With Closure	Taundra Mortensen	503/400-4256
RD916	Perpendicular Curb Ramp Single Ramp	Taundra Mortensen	503/400-4256
RD920	Parallel Curb Ramp	Taundra Mortensen	503/400-4256
RD922	Parallel Curb Ramp Single Ramp	Taundra Mortensen	503/400-4256
RD930	Combination Curb Ramp	Taundra Mortensen	503/400-4256
RD932	Combination Curb Ramp	Taundra Mortensen	503/400-4256
RD936	Combination Curb Ramp	Taundra Mortensen	503/400-4256
RD938	Combination Curb Ramp Single Ramp	Taundra Mortensen	503/400-4256
RD940	Blended Transition Curb Ramp Single Ramp	Taundra Mortensen	503/400-4256
RD950	End of Walk Curb Ramp	Taundra Mortensen	503/400-4256
RD952	End of Walk Curb Ramp	Taundra Mortensen	503/400-4256
RD960	Unique Curb Ramp	Taundra Mortensen	503/400-4256
RD1000s			
RD1000	Construction Entrances	Bob Marshall	971/719-3796
RD1005	Check Dams Type 1,3, and 4	Bob Marshall	971/719-3796
RD1006	Check Dams Type 2 and 6	Bob Marshall	971/719-3796
RD1010	Inlet Protection Type 2, 3, 6, and 7	Bob Marshall	971/719-3796
RD1015	Inlet Protection Type 4	Bob Marshall	971/719-3796
RD1030	Sediment Barrier Type 2, 3, and 4	Bob Marshall	971/719-3796
RD1031	Sediment Barrier Type 5 and 6	Bob Marshall	971/719-3796
RD1032	Sediment Barrier Type 8	Bob Marshall	971/719-3796

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RD1033	Sediment Barrier Type 9	Bob Marshall	971/719-3796
RD1040	Sediment Fence	Bob Marshall	971/719-3796
RD1045	Temporary Slope Drain With Energy Dissipator	Bob Marshall	971/719-3796
RD1050	Temporary-Scour Basin/Energy Dissipator	Bob Marshall	971/719-3796
RD1055	Slope And Channel Matting	Bob Marshall	971/719-3796
RD1060	Tire Wash Facility Type 1 and 2	Bob Marshall	971/719-3796
RD1065	Sediment Trap	Bob Marshall	971/719-3796
RD1070	Concrete Truck Wash Out	Bob Marshall	971/719-3796
RD1100s			
RD1140	Separated Bike Lane Crossing	Rodger Gutierrez	503/586-6652
TM200s			
TM200	Sign Installation Details	Martin Klug	503/986-3586
TM201	Miscellaneous Sign Placement Details	Martin Klug	503/986-3586
TM204	Flag Board Mounting Details	Martin Klug	503/986-3586
TM206	Sign Bracing Details	Martin Klug	503/986-3586
TM211	Signing Details U.S. and Interstate Route Shields	Martin Klug	503/986-3586
TM212	Signing Details Oregon Route Signs	Martin Klug	503/986-3586
TM220	Multi-Post Installations With Auxiliary Signs	Martin Klug	503/986-3586
TM221	Signing Details Milepost Markers	Martin Klug	503/986-3586
TM222	Installation Details Milepost Marker Posts	Martin Klug	503/986-3586
TM223	Street Name Sign Layout	Martin Klug	503/986-3586
TM224	Freeway/Expressway Directional Sign Layout	Martin Klug	503/986-3586
TM225	Exit Number and Gore Signing Details	Martin Klug	503/986-3586
TM226	Conventional Roads Directional Sign Layout	Martin Klug	503/986-3586
TM230	Mounting Details For Removable Legend 4" Through 8" Letters & Numbers	Martin Klug	503/986-3586
TM231	Mounting Details For Removable Legend 10" Through 12" Letters & Numbers	Martin Klug	503/986-3586
TM232	Mounting Details for Removable Legend 13 1/3" Through 18" Letters and Numbers	Martin Klug	503/986-3586
TM233	Mounting Details for Removable Legend Various Arrow Sizes	Martin Klug	503/986-3586
TM240	Crosswalk Closure Detail	Martin Klug	503/986-3586
TM300s			
TM300	Illumination Control Cabinets	Ernest Kim	503/476-7941
TM301	Illumination Control Cabinets	Ernest Kim	503/476-7941
TM303	120/240 V Pad-Mount Illumination Control Cabinet	Ernest Kim	503/476-7941
TM400s			
TM450	Mast Arm Pole Details	Scott Cramer	503/476-7849
TM452	Strain Pole Details	Scott Cramer	503/476-7849
TM453	Temporary Pedestrian Wood Post, Guy Wire/Anchor And Luminaire Arm	Scott Cramer	503/476-7849
TM454	Temporary Controller Cabinet, Service Cabinet, Meter Base & Terminal	Scott Cramer	503/476-7849
TM456	Temporary Spanwire Mounting Details For Vehicle Signals, Signs, And Fire Preemption	Scott Cramer	503/476-7849
TM457	Vehicle, Pedestrian Signal and Pushbutton Mounting Option Details	Scott Cramer	503/476-7849
TM460	Vehicle Signal Details	Scott Cramer	503/476-7849
TM462	Vehicle Signal Bracket Mount Details	Scott Cramer	503/476-7849
TM466	Radar Mounting Details	Scott Cramer	503/476-7849
TM467	Pedestrian Signal Mount and Pedestrian Pushbutton Details	Scott Cramer	503/476-7849
TM470	Wire & Cable Installation And Color Code Charts	Scott Cramer	503/476-7849
TM482	Controller Cabinet and Service Cabinet Foundation Details	Scott Cramer	503/476-7849
TM485	Service Cabinet Wiring Details	Scott Cramer	503/476-7849
TM492	Ramp Meter Pedestal Detail	Scott Cramer	503/476-7849
TM493	TM494	Scott Cramer	503/476-7849
TM500s			
TM500	Pavement Marking Standard Detail Blocks	Frank Belleque	503/428-6874
TM501	Pavement Marking Standard Detail Blocks	Frank Belleque	503/428-6874
TM502	Pavement Marking Standard Detail Blocks	Frank Belleque	503/428-6874
TM503	Pavement Marking Standard Detail Blocks	Frank Belleque	503/428-6874
TM504	Pavement Marking Standard Detail Blocks	Frank Belleque	503/428-6874
TM505	Rail Crossing Pavement Markings	Frank Belleque	503/428-6874
TM515	Pavement Markers	Martin Klug	503/986-3586
TM516	Raised Pavement Markers: Freeway Median Crossover	Frank Belleque	503/428-6874
TM517	Recessed Pavement Markers	Frank Belleque	503/428-6874

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Drawing Number	Drawing Name	Technical Expert	Phone
TM520	Durable Pavement Markings Method 'A' & Method 'D' Surface Installed Profiled	Frank Belleque	503/428-6874
TM521	Durable & High Performance Pavement Markings Surface & Groove Installed Non-Profiled	Frank Belleque	503/428-6874
TM530	Intersection Pavement Markings (Crosswalk, Stop Bar, and Bike Lane Stencil)	Martin Klug	503/986-3586
TM531	Turn Arrow Marking Details	Frank Belleque	503/428-6874
TM539	Median and Left Turn Lane Channelization Details	Frank Belleque	503/428-6874
TM547	Freeway Entrance Ramp Pavement Markings	Frank Belleque	503/428-6874
TM551	Freeway Exit Ramp Pavement Markings	Frank Belleque	503/428-6874
TM560	Alignment Layout: General	Frank Belleque	503/428-6874
TM561	Alignment Layout: Left Turn Lane, Centerline, & Medians	Frank Belleque	503/428-6874
TM570	Traffic Delineators	Martin Klug	503/986-3586
TM571	Traffic Delineators Steel Post Details	Martin Klug	503/986-3586
TM575	Traffic Delineator Installation for Freeways	Martin Klug	503/986-3586
TM576	Traffic Delineator Installation For Non-Freeways	Martin Klug	503/986-3586
TM577	Traffic Delineator Installation For Special Applications	Martin Klug	503/986-3586
TM600s			
TM600	Multi-Post Breakaway Sign Supports Notes	Scott Jollo	503/510-2204
TM601	Multi-Post Breakaway Sign Supports Details	Scott Jollo	503/510-2204
TM602	Triangular Base Breakaway Sign Support Multi-Directional Slip Base Design	Scott Jollo	503/510-2204
TM606	Standard Truss Type VMS Bridge 50' To 167' Span Range Typical Plan and Elevation	Scott Jollo	503/510-2204
TM607	Standard Truss Type VMS Bridge 50' To 167' Span Range Notes	Scott Jollo	503/510-2204
TM608	Standard Truss Type VMS Bridge 50' To 167' Span Range Bridge Truss Detail	Scott Jollo	503/510-2204
TM609	Standard Truss Type VMS Bridge 50' To 167' Span Range End Truss Detail	Scott Jollo	503/510-2204
TM610	Standard Truss Type VMS Bridge 50' To 167' Span Range Sign Mounting and Misc. Details	Scott Jollo	503/510-2204
TM611	Standard Truss Type VMS Bridge 50' To 167' Span Range Std. Spread Ftg. Foundation Details	Scott Jollo	503/510-2204
TM612	Standard Truss Type VMS Bridge 50' To 167' Span Range Walkway Details	Scott Jollo	503/510-2204
TM614	Standard Truss Type Sign Bridge 50' To 167' Span Range Typical Plan and Elevation	Scott Jollo	503/510-2204
TM615	Standard Truss Type Sign Bridge 50' To 167' Span Range Notes	Scott Jollo	503/510-2204
TM616	Standard Truss Type Sign Bridge 50' To 167' Span Range Bridge Truss Detail	Scott Jollo	503/510-2204
TM617	Standard Truss Type Sign Bridge 50' To 167' Span Range End Truss Details	Scott Jollo	503/510-2204
TM618	Standard Truss Type Sign Bridge 50' To 167' Span Range Sign and Luminaire Mounting Details	Scott Jollo	503/510-2204
TM619	Standard Truss Type Sign Bridge 50' To 167' Span Range Std. Spread Ftg. Foundation Detail	Scott Jollo	503/510-2204
TM620	Standard Truss Type Sign Bridge 50' To 167' Span Range Miscellaneous Details	Scott Jollo	503/510-2204
TM621	Standard Monotube Sign/VMS Cantilever General Design Criteria	Scott Jollo	503/510-2204
TM622	Standard Monotube Sign/VMS Cantilever Notes	Scott Jollo	503/510-2204
TM623	Standard Monotube Sign/VMS Cantilever Misc. Details	Scott Jollo	503/510-2204
TM624	Standard Monotube Sign/VMS Cantilever Mounting Details	Scott Jollo	503/510-2204
TM625	Standard Monotube Sign/VMS Cantilever Luminaire Mounting Details	Scott Jollo	503/510-2204
TM626	Standard Monotube Sign/VMS Cantilever Details	Scott Jollo	503/510-2204
TM627	Std. Monotube Sign/VMS Support Spread Footing Foundation Details	Scott Jollo	503/510-2204
TM628	Standard Monotube Sign/VMS Support Drilled Shaft Details	Scott Jollo	503/510-2204
TM629	Slip Base and Fixed Base Luminaire Supports General Details and Design Criteria	Scott Jollo	503/510-2204
TM630	Slip Base and Fixed Base Luminaire Supports Base Plate & Footing Details	Scott Jollo	503/510-2204
TM631	Fixed Base Luminaire Supports Base Plate & Footing Details	Scott Jollo	503/510-2204
TM635	Breakaway Sign and Luminaire Supports - Support Location Guidelines	Scott Jollo	503/510-2204
TM650	Traffic Signal Supports General Details & Design Criteria	Scott Jollo	503/510-2204
TM651	Traffic Signal Supports Notes and Reactions	Scott Jollo	503/510-2204
TM652	Traffic Signal Supports Steel Details	Scott Jollo	503/510-2204
TM653	Traffic Signal Supports Foundation Requirements	Scott Jollo	503/510-2204
TM654	Traffic Signal Supports Recessed Terminal Cabinet	Scott Jollo	503/510-2204
TM655	Traffic Signal 60' through 75' Mast Arm Supports General Details & Design Criteria	Scott Jollo	503/510-2204
TM656	Traffic Signal 60' through 75' Mast Arm Supports Notes	Scott Jollo	503/510-2204
TM657	Traffic Signal 60' through 75' Mast Arm Supports Steel Details (SH. 1)	Scott Jollo	503/510-2204
TM658	Traffic Signal 60' through 75' Mast Arm Supports Steel Details (SH. 2)	Scott Jollo	503/510-2204
TM670	Wood Post Sign Supports	Scott Jollo	503/510-2204
TM671	3 Second Gust Wind Speed Map	Scott Jollo	503/510-2204
TM672	LRFD Ultimate Design Wind Speed Map	Scott Jollo	503/510-2204
TM675	Extruded Aluminum Panels	Scott Jollo	503/510-2204
TM676	Sign Attachments	Scott Jollo	503/510-2204
TM677	Sign Mounts	Scott Jollo	503/510-2204
TM678	Secondary Sign Mounting Details	Scott Jollo	503/510-2204

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Drawing Number	Drawing Name	Technical Expert	Phone
TM679	Signal Mast Arm Street Name Sign Mounts	Scott Jollo	503/510-2204
TM680	Signal Pole Mounts	Scott Jollo	503/510-2204
TM681	Perforated Steel Square Tube (PSST) Sign Support Installation	Scott Jollo	503/510-2204
TM687	Preforated Steel Square Tube (PSST) Anchor Foundation	Scott Jollo	503/510-2204
TM688	Preforated Steel Square Tube (PSST) Slip Base Foundation	Scott Jollo	503/510-2204
TM689	Temporary PSST Vane Anchor Installation	Scott Jollo	503/510-2204
TM690	Std. Monotube Walk-In VMS Cantilever General Design Criteria	Scott Jollo	503/510-2204
TM691	Std. Monotube Walk-In VMS Cantilever Walkway Details	Scott Jollo	503/510-2204
TM693	Std. Monotube VMS /Sign Bridge General Design Criteria	Scott Jollo	503/510-2204
TM694	Std. Monotube VMS /Sign Bridge Notes	Scott Jollo	503/510-2204
TM695	Std. Monotube VMS /Sign Bridge Walkway Details (Sh. 1)	Scott Jollo	503/510-2204
TM696	Std. Monotube VMS /Sign Bridge Walkway Details (Sh. 2)	Scott Jollo	503/510-2204
TM697	Std. Monotube VMS /Sign Bridge Details	Scott Jollo	503/510-2204
TM698	Std. Monotube Type 1 VMS Walk-In Bridge General Design Criteria	Scott Jollo	503/510-2204
TM700s			
TM700	General Conduit Trenching	Scott Cramer	503/476-7849
TM701	General Conduit & Wire/Cable Installation	Scott Cramer	503/476-7849
TM702	General Junction Box/Hand Hole Installation	Scott Cramer	503/476-7849
TM800s			
TM800	Tables, Abrupt Edge, and PCMS Details	Justin King	503/986-3584
TM810	Temporary Pavement Markers	Justin King	503/986-3584
TM820	Temporary Barricades	Justin King	503/986-3584
TM821	Temporary Sign Supports	Justin King	503/986-3584
TM822	Temporary Sign Supports	Justin King	503/986-3584
TM830	Temporary Concrete Barrier and Rumble Strip Details	Justin King	503/986-3584
TM831	Temporary Impact Attenuators	Justin King	503/986-3584
TM832	Temporary Impact Attenuators	Justin King	503/986-3584
TM833	Temporary Impact Attenuators	Justin King	503/986-3584
TM840	Closure Details	Justin King	503/986-3584
TM841	Intersection Workzone Details	Justin King	503/986-3584
TM842	Signalized Intersection Details	Justin King	503/986-3584
TM843	Multi-Lane Signalized Intersection Details	Justin King	503/986-3584
TM844	Temporary Pedestrian Accessible Routing	Justin King	503/986-3584
TM845	Temporary Sidewalk Ramps	Justin King	503/986-3584
TM850	2 Lane, 2 Way Roadways	Justin King	503/986-3584
TM851	Non-Freeway Multi-Lane Sections	Justin King	503/986-3584
TM852	Non-Freeway Multi-Lane Sections	Justin King	503/986-3584
TM853	Non-Freeway Multi-Lane Sections	Justin King	503/986-3584
TM854	2-Lane, 2-Way Roadway	Justin King	503/986-3584
TM855	2-Lane, 2-Way Roadway	Justin King	503/986-3584
TM860	Freeway Sections - Ramps	Justin King	503/986-3584
TM861	Freeway Sections	Justin King	503/986-3584
TM862	Freeway Sections	Justin King	503/986-3584
TM870	Bridge Construction	Justin King	503/986-3584
TM871	Blasting Zones	Justin King	503/986-3584
TM880	Freeway or Divided Highway Speed Reduction (Paving Operations)	Justin King	503/986-3584