

Technical Owners

Last Update: Jan 2022

Drawing Number	Drawing Name	Technical Expert	Phone
BR100s			
BR115	Slope Paving	Rebecca Burrow	503/986-4008
BR133	Trapezoidal Box Reinforcement	Tanarat Potisuk	503/986-3342
BR135	Access and Ventilation Hardware for Concrete Box Girders	Tanarat Potisuk	503/986-3342
BR136	Access and Ventilation Hardware and Concrete Reinforcement for Concrete Box Girders	Tanarat Potisuk	503/986-3342
BR139	Expansion Joint with Preformed Compression Seals	Tanarat Potisuk	503/986-3342
BR140	Expansion Joint With Poured Seals	Tanarat Potisuk	503/986-3342
BR141	Expansion Joint With Armor	Tanarat Potisuk	503/986-3342
BR145	Single Strip Seal Expansion Joint	Tanarat Potisuk	503/986-3342
BR157	Asphaltic Plug Joint Seal	Tanarat Potisuk	503/986-3342
BR165	Bridge End Panel	Alex Lim	503/986-3402
BR175	Cattle Guard	Alex Lim	503/986-3402
BR182	Truck Scale Pit	Alex Lim	503/986-3402
BR190	Horizontal Fall Arrest Lifeline Installation	Ray Bottenberg	503/986-3318
BR191	Horizontal Fall Arrest Lifeline Details	Ray Bottenberg	503/986-3318
BR195	Bridge ID Marker	Rebecca Burrow	503/986-4008
BR200s			
BR200	Concrete Bridge Rail Type "F"	Rebecca Burrow	503/986-4008
BR203	Transition Concrete Bridge Rail to Guardrail	Rebecca Burrow	503/986-4008
BR206	2-Tube Curb Mount Rail	Rebecca Burrow	503/986-4008
BR207	2-Tube Curb Mount Rail Transition	Rebecca Burrow	503/986-4008
BR208	3-Tube Curb Mount Rail	Rebecca Burrow	503/986-4008
BR209	3-Tube Curb Mount Rail Transition	Rebecca Burrow	503/986-4008
BR212	Concrete Post and Beam Bridge Rail	Rebecca Burrow	503/986-4008
BR214	Concrete Parapet with Steel Post	Rebecca Burrow	503/986-4008
BR216	Sidewalk Mounted Combination Bridge Rail	Rebecca Burrow	503/986-4008
BR220	Flush Mounted Combination Bridge Rail	Rebecca Burrow	503/986-4008
BR221	32" Vertical Concrete Parapet	Rebecca Burrow	503/986-4008
BR222	Vertical Concrete Parapet, 42 Inch	Rebecca Burrow	503/986-4008
BR223	Combination Bridge Rail Details	Rebecca Burrow	503/986-4008
BR226	2-Tube Side Mount Rail	Rebecca Burrow	503/986-4008
BR230	2-Tube Side Mount Rail Transition	Rebecca Burrow	503/986-4008
BR233	Thrie-Beam Rail and Transition	Rebecca Burrow	503/986-4008
BR236	Trailing End Concrete Bridge Rail	Rebecca Burrow	503/986-4008
BR240	Protective Fencing	Rebecca Burrow	503/986-4008
BR241	Protective Fencing Details - 1	Rebecca Burrow	503/986-4008
BR242	Protective Fencing Details - 2	Rebecca Burrow	503/986-4008
BR245	Protective Fence with Splash-Board	Rebecca Burrow	503/986-4008
BR246	Pedestrian Rail	Rebecca Burrow	503/986-4008
BR250	Pedestrian Rail on Sidewalk Mounted Concrete Parapet	Rebecca Burrow	503/986-4008
BR253	Sidewalk Mounted Concrete Parapet with Chain Link Fencing	Rebecca Burrow	503/986-4008
BR256	Pedestrian Rail on Type "F" Concrete Bridge Rail	Rebecca Burrow	503/986-4008
BR260	Chain Link Fencing on Type "F" Concrete Bridge Rail	Rebecca Burrow	503/986-4008
BR263	Concrete Median Barrier at Bridge Expansion Joints (Type "F")	Rebecca Burrow	503/986-4008
BR266	Modified Type 2A Rail	Rebecca Burrow	503/986-4008
BR270	Rail Transition From Flex Beam Rail to Curb and Parapet Rail	Rebecca Burrow	503/986-4008
BR273	Thrie-Beam Rail Retrofit For Curb and Parapet Rail Connection Details	Rebecca Burrow	503/986-4008
BR285	Type "F" Concrete Rail Retangular Tube Retrofit, Sheet 1 of 2	Alex Lim	503/986-3402
BR286	Type "F" Concrete Rail Retangular Tube Retrofit, Sheet 2 of 2	Alex Lim	503/986-3402
BR290	3'-6" Type "F" Rail	Rebecca Burrow	503/986-4008
BR291	Transition 3'-6" Concrete Bridge Rail to Guardrail	Rebecca Burrow	503/986-4008
BR300s			
BR300	Bulb-I (Precast Prestressed Concrete Girders)	Tanarat Potisuk	503/986-3342
BR310	Bulb-T (Precast Prestressed Concrete Girders)	Tanarat Potisuk	503/986-3342
BR321	BT90 and BT96 (Precast Prestressed Concrete Girders)	Tanarat Potisuk	503/986-3342
BR325	Type II-Prestressed Concrete Girders	Tanarat Potisuk	503/986-3342
BR330	Type III-Prestressed Concrete Girders	Tanarat Potisuk	503/986-3342
BR335	Type IV-Prestressed Concrete Girders	Tanarat Potisuk	503/986-3342
BR340	Type V- Prestressed Concrete Girders	Tanarat Potisuk	503/986-3342
BR350	Temporary Diaphragm Beam for Prestressed Concrete Girders	Tanarat Potisuk	503/986-3342
BR360	36" Deck Bulb-T (Precast Prestressed Concrete) Girder	Tanarat Potisuk	503/986-3342
BR365	45" Deck Bulb-T (Precast Prestressed Concrete) Girder	Tanarat Potisuk	503/986-3342
BR375	60" Deck Bulb-T (Precast Prestressed Concrete) Girder	Tanarat Potisuk	503/986-3342
BR400s			
BR400	12" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR405	15" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR410	18" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR415	21" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR420	26" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR422	30" Precast Prestressed Slab	Tanarat Potisuk	503/986-3342
BR425	33" Precast Prestressed Box	Tanarat Potisuk	503/986-3342
BR430	39" Precast Prestressed Box	Tanarat Potisuk	503/986-3342
BR435	42" Precast Prestressed Box	Tanarat Potisuk	503/986-3342
BR440	48" Precast Prestressed Box	Tanarat Potisuk	503/986-3342
BR445	Precast Prestressed Boxes and Slabs Details	Tanarat Potisuk	503/986-3342
BR500s			
BR500	Concrete Repair	Mats Halvardson	503/986-3325
BR505	Reinforcing Bar Repair	Mats Halvardson	503/986-3325
BR520	General Cathodic Protection Details	Andrew Blower	503/986-3406

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Drawing Number	Drawing Name	Technical Expert	Phone
BR525	Reinforcement Continuity Detail	Andrew Blower	503/986-3406
BR550	Rivet Replacement	David Dobson	503/986-4029
BR700s			
BR705	Standard Retaining Wall Cast-In-Place Semi-Gravity Front Face Batter	Sophie Brown	503/986-3778
BR706	Standard Retaining Wall Reinforcement Details Case I: Horizontal Backfill with 250 PSF Surcharge	Sophie Brown	503/986-3778
BR707	Standard Retaining Wall Reinforcement Details Case II: 3H:1V Inclined Backfill	Sophie Brown	503/986-3778
BR708	Standard Retaining Wall Reinforcement Details Case III: 2H:1V Inclined Backfill	Sophie Brown	503/986-3778
BR709	Standard Retaining Wall Cast-In-Place Semi-Gravity Joints and Details	Sophie Brown	503/986-3778
BR730	Standard Reinforced Concrete Masonry Sound Wall Details	Sophie Brown	503/986-3778
BR740	Standard Precast Concrete Panel Sound Wall Details	Sophie Brown	503/986-3778
BR750	Standard Masonry Sound Wall on Pile Footing	Sophie Brown	503/986-3778
BR751	Standard Masonry Sound Wall on Pile Footing Details	Sophie Brown	503/986-3778
BR760	Moment Slab With 32-Inch Type "F" Bridge Rail (Barrier Coping) on MSE Wall	Sophie Brown	503/986-3778
BR800s			
BR800	Box Culvert Wingwalls Details	Sophie Brown	503/986-3778
BR805	Box Culvert Extensions Details	Sophie Brown	503/986-3778
BR820	Cast-In-Place Concrete Box Culverts General Details 6X4 and 6X6	Sophie Brown	503/986-3778
BR825	Cast-In-Place Concrete Box Culverts General Details 8X4, 8X6, and 8X8	Sophie Brown	503/986-3778
BR830	Cast-In-Place Concrete Box Culverts General Details 10X6, 10X8, and 10X10	Sophie Brown	503/986-3778
BR835	Cast-In-Place Concrete Box Culverts General Details 12X6, 12X8, 12X10, and 12X12	Sophie Brown	503/986-3778
BR840	Standard Double Box Culverts Details	Sophie Brown	503/986-3778
BR841	Standard Double Box Culverts Details	Sophie Brown	503/986-3778
BR900s			
BR970	Luminaire Base on Structures with Mounting Details	Alex Lim	503/986-3402
BR971	Luminaire Base on Structures with Mounting Details 2	Alex Lim	503/986-3402
BR972	Underdeck Luminaire with Mounting Details	Alex Lim	503/986-3402
RD100s			
RD 100	Mailbox Support	Will Woods	503/354-7155
RD 101	Mailbox Installation	Will Woods	503/354-7155
RD 110	Cattle Pass and Painted Cattle Guard	Will Woods	503/354-7155
RD 115	Monument Box	Will Woods	503/354-7155
RD 120	Concrete Stairway	Will Woods	503/354-7155
RD 130	Bollards	Will Woods	503/354-7155
RD 140	Roadway Cross Slopes Super-elevated Sections	Will Woods	503/354-7155
RD 150	Slope Rounding	Will Woods	503/354-7155
RD 160	Maintenance Pad Details	Will Woods	503/354-7155
RD 170	Roundabout and Truck Apron Curb Placement	Crossler-Laird Rich	503/986-3741
RD200s			
RD 250	Thrust Blocking	Will Woods	503/354-7155
RD 254	Hydrant Installation	Will Woods	503/354-7155
RD 255	Hydrant Bollard	Will Woods	503/354-7155
RD 258	Valve Box and Operator Extension Assembly	Will Woods	503/354-7155
RD 262	Typical Main Dead-End Blowoff Assembly	Will Woods	503/354-7155
RD 266	Manual Air-Release Assembly (3/4")	Will Woods	503/354-7155
RD 270	Combination Air Release Air Vacuum Valve Assembly (2" and Smaller)	Will Woods	503/354-7155
RD 274	3/4" - 2" Water Service Connection	Will Woods	503/354-7155
RD 278	Water Meter Assembly (Larger than 2")	Will Woods	503/354-7155
RD 282	Water Sampling Station	Will Woods	503/354-7155
RD 286	Root Barrier	Will Woods	503/354-7155
RD300s			
RD 300	Trench Backfill, Bedding, Pipe Zone & Multiple Installations	Will Woods	503/354-7155
RD 302	Street Cut	Will Woods	503/354-7155
RD 304	Arch Pipe Backfill/Compaction	Will Woods	503/354-7155
RD 306	Concrete Encasement, Cradle, and Cap Details	Will Woods	503/354-7155
RD 308	Bore Casing Detail	Will Woods	503/354-7155
RD 310	Shallow/Deep Trench Service Connection, Blocking and Markers	Will Woods	503/354-7155
RD 312	Subsurface Drain	Will Woods	503/354-7155
RD 316	Sloped Ends For Metal Pipes	Will Woods	503/354-7155
RD 317	Culvert Embankment Protection And Riprap Pads	Lu Saechao	503/986-3365
RD 318	Sloped Ends For Concrete Pipe	Will Woods	503/354-7155
RD 319	Miscellaneous Culvert Details	Will Woods	503/354-7155
RD 320	Paved End Slope For Culverts 60" Maximum Pipe Size	Will Woods	503/354-7155
RD 321	Paved End Slope with Removable Safety Bar(s)	Will Woods	503/354-7155
RD 322	Safety End Section Metal Pipe	Will Woods	503/354-7155
RD 324	Safety End Section Concrete, PVC, HDPE, & Polypropylene Pipe	Will Woods	503/354-7155
RD 325	Coupling Bands For Corrugated Metal Pipe	Will Woods	503/354-7155
RD 326	Coupling Bands For Corrugated Metal Pipe	Will Woods	503/354-7155
RD 327	Coupling Bands For Corrugated Metal Pipe	Will Woods	503/354-7155
RD 328	Slotted C.M.P Drain Details	Will Woods	503/354-7155
RD 330	Pipe Slope Anchors - Metal	Will Woods	503/354-7155
RD 332	Pipe Slope Anchors - Concrete	Will Woods	503/354-7155
RD 334	Locator Post	Will Woods	503/354-7155
RD 335	Standard Storm Sewer Manhole	Will Woods	503/354-7155
RD 336	Standard Manhole Details	Will Woods	503/354-7155
RD 338	Standard Sanitary Sewer Manhole	Will Woods	503/354-7155
RD 339	Pipe to Structure Connections	Will Woods	503/354-7155
RD 340	Storm Sewer Pollution Control Manhole	Will Woods	503/354-7155
RD 342	Shallow Manholes	Will Woods	503/354-7155
RD 343	24" Manhole	Will Woods	503/354-7155
RD 344	Standard Manhole Base Section	Will Woods	503/354-7155
RD 345	Pipe to Manhole Connections	Will Woods	503/354-7155

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Drawing Number	Drawing Name	Technical Expert	Phone
RD 346	Large Precast Manhole	Will Woods	503/354-7155
RD 348	Manhole With Inlet	Will Woods	503/354-7155
RD 350	Sanitary Sewer Piped Inside Drop Connection For Manholes	Will Woods	503/354-7155
RD 352	Outside Drop Manholes	Will Woods	503/354-7155
RD 354	Carry Through Manhole-Storm	Will Woods	503/354-7155
RD 356	Manhole Covers And Frames	Will Woods	503/354-7155
RD 358	Manhole Slope Protectors	Will Woods	503/354-7155
RD 360	Manhole Frame Adjustment	Will Woods	503/354-7155
RD 362	Sanitary Cleanout	Will Woods	503/354-7155
RD 363	Gutter Transition At Inlet	Will Woods	503/354-7155
RD 364	Concrete Inlets Types G-1, G-2, G-2M, and G-2MA	Will Woods	503/354-7155
RD 365	Frames & Grates for Concrete Inlets	Will Woods	503/354-7155
RD 366	Concrete Inlets Type CG-1, CG-2	Will Woods	503/354-7155
RD 367	Curb Inlet Channel	Will Woods	503/354-7155
RD 368	Concrete Inlets Type M-E, M-O, B, and B-SL	Will Woods	503/354-7155
RD 370	Ditch Inlet Type D	Will Woods	503/354-7155
RD 371	Concrete Inlet Base Type CG-3	Will Woods	503/354-7155
RD 372	Concrete Inlet Top, Option 1 Type CG-3	Will Woods	503/354-7155
RD 373	Concrete Inlet Top, Option 2 Type CG-3	Will Woods	503/354-7155
RD 374	Area Drainage Basin or Field Inlet	Will Woods	503/354-7155
RD 376	Miscellaneous Drainage Structures Siphon Box, Inlet Cap, & Inlet Adjustment	Will Woods	503/354-7155
RD 378	Type "3" Catch Basin, Frame and Grate	Will Woods	503/354-7155
RD 380	Fill Height Tables For Aluminum and Steel Corrugated Pipe	Will Woods	503/354-7155
RD 382	Fill Height Tables For Aluminum and Steel Arch Pipe	Will Woods	503/354-7155
RD 384	Fill Height Tables For Aluminum and Steel Spiral Rib Pipe	Will Woods	503/354-7155
RD 386	Fill Height Table For Circular Concrete Pipe	Will Woods	503/354-7155
RD 388	Fill Height Tables For PVC Pipe	Will Woods	503/354-7155
RD 390	Fill Height Table For Corrugated HDPE Pipe	Will Woods	503/354-7155
RD 391	Fill Height Table For Steel Reinforced HDPE Pipe	Will Woods	503/354-7155
RD 393	Fill Height Table For Polypropylene Pipe	Will Woods	503/354-7155
RD 398	Culvert ID Marker	Rob Trevis	503/986-3860
RD 399	Stormwater Treatment and Storage Facility Field Marker	Lu Saechao	503/986-3365
RD400s			
RD 400	Guardrail and Metal Median Barrier (29" Rail Height)	Christopher Henson	503/986-3561
RD 401	Midwest Guardrail System Rail Height Adjustment	Christopher Henson	503/986-3561
RD 402	Midwest Guardrail System Types	Christopher Henson	503/986-3561
RD 403	Midwest Guardrail System Wood Post and Block	Christopher Henson	503/986-3561
RD 404	Midwest Guardrail System Steel Post and Block	Christopher Henson	503/986-3561
RD 405	Guardrail and Metal Median Barrier Parts (29" Rail Height)	Christopher Henson	503/986-3561
RD 406	Placement of Guardrail on Slopes	Christopher Henson	503/986-3561
RD 407	Midwest Guardrail System (W-Beam)	Christopher Henson	503/986-3561
RD 408	Midwest Guardrail System Metal Median Barrier (Double Sides)	Christopher Henson	503/986-3561
RD 409	Thrie Beam Guardrail	Christopher Henson	503/986-3561
RD 410	Thrie-Beam Guardrail Transition	Christopher Henson	503/986-3561
RD 412	Midwest Guardrail System Installation at Bridge Deck Expansion Joint	Christopher Henson	503/986-3561
RD 415	Guardrail and Metal Median Barrier Parts (29" Rail Height)	Christopher Henson	503/986-3561
RD 416	Midwest Guardrail System Standard Hardware (Nuts, Bolts, Washers, and Misc.)	Christopher Henson	503/986-3561
RD 417	Midwest Guardrail System End Sections	Christopher Henson	503/986-3561
RD 419	Midwest Guardrail System Grading for Terminals	Christopher Henson	503/986-3561
RD 420	Midwest Guardrail System Non-Flared Energy-Absorbing Terminal	Christopher Henson	503/986-3561
RD 421	Midwest Guardrail System Flared Energy-Absorbing Terminal (MFLEAT)	Christopher Henson	503/986-3561
RD 435	Guardrail Installation Terminal (Cut or False Cut) (29" Rail Height)	Christopher Henson	503/986-3561
RD 436	Midwest Guardrail System Buried in Backslope (BIB) Terminal	Christopher Henson	503/986-3561
RD 437	Midwest Guardrail System Buried in Backslope Terminal Anchor Parts	Christopher Henson	503/986-3561
RD 438	Midwest Guardrail System Downstream Anchor Terminal (DAT)	Christopher Henson	503/986-3561
RD 440	Guardrail Installation at Bridge Ends (29" Rail Height)	Christopher Henson	503/986-3561
RD 442	Midwest Guardrail System Typical Layouts at Bridge Ends	Christopher Henson	503/986-3561
RD 443	Midwest Guardrail System Typical Layouts for Embankments	Christopher Henson	503/986-3561
RD 444	Midwest Guardrail System Typical Layouts for Fixed Objects	Christopher Henson	503/986-3561
RD 445	Guardrail Installation at R.R. Grade Crossings	Christopher Henson	503/986-3561
RD 450	Guardrail Anchors (Steel)	Christopher Henson	503/986-3561
RD 451	Wood Breakaway Posts	Christopher Henson	503/986-3561
RD 470	Guardrail Over Low-Fill Culverts (29" Rail Height)	Christopher Henson	503/986-3561
RD 471	Midwest Guardrail System Over Low-Fill Culverts	Christopher Henson	503/986-3561
RD 481	Midwest Guardrail System Height Conversion	Christopher Henson	503/986-3561
RD 482	Midwest Guardrail System Type 3 (Nested W-Beam)	Christopher Henson	503/986-3561
RD500s			
RD 500	32" Concrete Barrier Type "F" Precast	Christopher Henson	503/986-3561
RD 501	32" Concrete Barrier Type "F" Precast	Christopher Henson	503/986-3561
RD 502	32" Concrete Barrier Type "F" Precast	Christopher Henson	503/986-3561
RD 503	Precast Concrete Barrier Pin and Loop Assembly	Christopher Henson	503/986-3561
RD 505	Concrete Barrier Poured In Place	Christopher Henson	503/986-3561
RD 510	Concrete Barrier Terminal	Christopher Henson	503/986-3561
RD 515	Median Barrier Anchoring Details	Christopher Henson	503/986-3561
RD 516	Securing Concrete Barrier to Roadway	Christopher Henson	503/986-3561
RD 520	Cast In Place Concrete Barrier Transition To Concrete Bridge Rail	Christopher Henson	503/986-3561
RD 526	Standard Concrete Barrier Buried In Backslope	Christopher Henson	503/986-3561
RD 530	Guardrail Transition To Concrete Barrier	Christopher Henson	503/986-3561
RD 535	Concrete Barrier (Modified) Around Median Obstacle	Christopher Henson	503/986-3561
RD 545	Precast Tall (42") Concrete Barrier	Christopher Henson	503/986-3561
RD 550	Cast-In-Place Tall Concrete Barrier Transition To Concrete Bridge Rail	Christopher Henson	503/986-3561
RD 560	Cast-In-Place Tall Barrier Transition to Standard Concrete Barrier	Christopher Henson	503/986-3561

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Drawing Number	Drawing Name	Technical Expert	Phone
RD 570	Guardrail Connection to Tall Concrete Barrier	Christopher Henson	503/986-3561
RD 575	Tall Concrete Barrier (Modified) Around Median Obstacle	Christopher Henson	503/986-3561
RD 580	31" Guardrail Transition to Concrete Barrier	Christopher Henson	503/986-3561
RD 581	31" Guardrail Transition to Tall Concrete Barrier	Christopher Henson	503/986-3561
RD 590	35" Concrete Median Barrier Cast-In-Place	Christopher Henson	503/986-3561
RD600s			
RD 602	Shared Use Path Pavement Details	Will Woods	503/354-7155
RD 610	Asphalt Concrete Pavement (ACP) Details	Will Woods	503/354-7155
RD 615	Surface Edge Details	Will Woods	503/354-7155
RD700s			
RD 700	Curbs	Will Woods	503/354-7155
RD 701	Drainage Curbs	Will Woods	503/354-7155
RD 702	Bike Lane Curbs	Rodger Gutierrez	503/986-3554
RD 705	Islands	Will Woods	503/354-7155
RD 706	Traffic Separators and Transitions	Will Woods	503/354-7155
RD 707	Island Nose Treatments	Will Woods	503/354-7155
RD 710	Accessible Route Islands	Tandra Mortensen	503/986-3727
RD 711	Accessible Route Channelized Islands	Tandra Mortensen	503/986-3727
RD 715	Approaches and Non-Sidewalk Driveways	Will Woods	503/354-7155
RD 720	Curb Line Sidewalks	Will Woods	503/354-7155
RD 721	Separated Sidewalks	Will Woods	503/354-7155
RD 722	Sidewalk Joints and Transition Panels	Will Woods	503/354-7155
RD 725	Separated Sidewalk, Driveways, or Alleys (Options A, B, and C) ODOT Highways	Will Woods	503/354-7155
RD 730	Curb Line Sidewalk, Driveways, or Alleys (Options D and E) ODOT Highways	Will Woods	503/354-7155
RD 735	Curb Line Sidewalk, Driveways, or Alleys (Options F and G) ODOT Highways	Will Woods	503/354-7155
RD 740	Separated Sidewalk, Driveways, or Alleys, (Options H, I, and J) Local Jurisdictions	Will Woods	503/354-7155
RD 745	Curb Line Sidewalk, Driveways, or Alleys (Options K and L) Local Jurisdictions	Will Woods	503/354-7155
RD 750	Curb Line Sidewalk, Driveways, or Alleys (Options M and N) Local Jurisdiction	Will Woods	503/354-7155
RD 770	Metal Handrail	Will Woods	503/354-7155
RD 771	Metal Handrail Details	Will Woods	503/354-7155
RD 780	Aluminum Pedestrian Fence (MASH, TL-2)	Will Woods	503/354-7155
RD 781	Aluminum Pedestrian Fence Unit Details	Will Woods	503/354-7155
RD 782	Aluminum Pedestrian Fence Components Details	Will Woods	503/354-7155
RD800s			
RD 810	Barbed and Woven Wire Fences	Will Woods	503/354-7155
RD 815	Chain Link Fence	Will Woods	503/354-7155
RD 820	Fence Gates	Will Woods	503/354-7155
RD 825	Metal Snow Fence	Will Woods	503/354-7155
RD 830	Wildlife Fence Installation	Will Woods	503/354-7155
RD 832	Wildlife Fence Access Gate	Will Woods	503/354-7155
RD 835	WildLife Fence with Anti-Burrow Apron	Will Woods	503/354-7155
RD 840	Wildlife Fence Miscellaneous Details	Will Woods	503/354-7155
RD 845	Wildlife Escape Ramps (Jumpouts)	Will Woods	503/354-7155
RD900s			
RD 900	Curb Ramp Components And Legend	Tandra Mortensen	503/986-3727
RD 901	Curb Ramp Legend And Corner Identification	Tandra Mortensen	503/986-3727
RD 902	Detectable Warning Surface Details	Tandra Mortensen	503/986-3727
RD 904	Detectable Warning Surface Placement For Curb Ramps	Tandra Mortensen	503/986-3727
RD 905	Detectable Warning Surface Placement For Directional Curbs	Tandra Mortensen	503/986-3727
RD 906	Detectable Warning Surface Placement For Accessible Route Island	Tandra Mortensen	503/986-3727
RD 908	Detectable Warning Surface Placement	Tandra Mortensen	503/986-3727
RD 909	Detectable Guide Strip Placement at Bike Ramps	Tandra Mortensen	503/986-3727
RD 910	Perpendicular Curb Ramp	Tandra Mortensen	503/986-3727
RD 912	Perpendicular Curb Ramp	Tandra Mortensen	503/986-3727
RD 913	Perpendicular Curb Ramp With Closure	Tandra Mortensen	503/986-3727
RD 916	Perpendicular Curb Ramp Single Ramp	Tandra Mortensen	503/986-3727
RD 920	Parallel Curb Ramp	Tandra Mortensen	503/986-3727
RD 922	Parallel Curb Ramp Single Ramp	Tandra Mortensen	503/986-3727
RD 930	Combination Curb Ramp	Tandra Mortensen	503/986-3727
RD 932	Combination Curb Ramp	Tandra Mortensen	503/986-3727
RD 936	Combination Curb Ramp	Tandra Mortensen	503/986-3727
RD 938	Combination Curb Ramp Single Ramp	Tandra Mortensen	503/986-3727
RD 940	Blended Transition Curb Ramp Single Ramp	Tandra Mortensen	503/986-3727
RD 950	End of Walk Curb Ramp	Tandra Mortensen	503/986-3727
RD 952	End of Walk Curb Ramp	Tandra Mortensen	503/986-3727
RD 960	Unique Curb Ramp	Tandra Mortensen	503/986-3727
RD1000s			
RD1000	Construction Entrances	Bob Marshall	503/986-3512
RD1005	Check Dams Type 1,3, and 4	Bob Marshall	503/986-3512
RD1006	Check Dams Type 2 and 6	Bob Marshall	503/986-3512
RD1010	Inlet Protection Type 2, 3, 6, and 7	Bob Marshall	503/986-3512
RD1015	Inlet Protection Type 4	Bob Marshall	503/986-3512
RD1030	Sediment Barrier Type 2, 3, and 4	Bob Marshall	503/986-3512
RD1031	Sediment Barrier Type 5 and 6	Bob Marshall	503/986-3512
RD1032	Sediment Barrier Type 8	Bob Marshall	503/986-3512
RD1033	Sediment Barrier Type 9	Bob Marshall	503/986-3512
RD1040	Sediment Fence	Bob Marshall	503/986-3512
RD1045	Temporary Slope Drain With Energy Dissipator	Bob Marshall	503/986-3512
RD1050	Temporary-Scour Basin/Energy Dissipator	Bob Marshall	503/986-3512
RD1055	Slope And Channel Matting	Bob Marshall	503/986-3512
RD1060	Tire Wash Facility Type 1 and 2	Bob Marshall	503/986-3512

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Drawing Number	Drawing Name	Technical Expert	Phone
RD1065	Sediment Trap	Bob Marshall	503/986-3512
RD1070	Concrete Truck Wash Out	Bob Marshall	503/986-3512
RD100s			
RD1140	Separated Bike Lane Crossing	Rodger Gutierrez	503/986-3554
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	Conventional Roads Directional Sign Layout Street Name Signs	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
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	503/986-3587
TM301	Illumination Control Cabinets	Ernest Kim	503/986-3587
TM302	Pad-Mount Illumination Control Cabinet	Ernest Kim	503/986-3587
TM303	120/240 V Pad-Mount Illumination Control Cabinet	Ernest Kim	503/986-3587
TM400s			
TM450	Mast Arm Pole Details	Martin Klug	503/986-3586
TM452	Strain Pole Details	Martin Klug	503/986-3586
TM453	Temporary Pedestrian Wood Post, Guy Wire/Anchor And Luminaire Arm	Scott Cramer	503/986-3596
TM454	Temporary Controller Cabinet, Service Cabinet, Meter Base & Terminal	Scott Cramer	503/986-3596
TM456	Temporary Spanwire Mounting Details For Vehicle Signals, Signs, And Fire Preemption	Scott Cramer	503/986-3596
TM457	Vehicle, Pedestrian Signal and Pushbutton Mounting Option Details	Scott Cramer	503/986-3596
TM460	Vehicle Signal Details	Scott Cramer	503/986-3596
TM462	Vehicle Signal Bracket Mount Details	Martin Klug	503/986-3586
TM466	Radar Mounting Details	Scott Cramer	503/986-3596
TM467	Pedestrian Signal Mount and Pedestrian Pushbutton Details	Martin Klug	503/986-3586
TM470	Wire & Cable Installation And Color Code Charts	Scott Cramer	503/986-3596
TM471	Trenching & Conduit Installation	Katryn Johnson	503/986-3595
TM472	Traffic Signal Junction Box/Hand Holes	Scott Cramer	503/986-3596
TM482	Controller Cabinet and Service Cabinet Foundation Details	Martin Klug	503/986-3586
TM485	Service Cabinet Wiring Details	Scott Cramer	503/986-3596
TM492	Ramp Meter Pedestal Detail	Martin Klug	503/986-3586
TM500s			
TM500	Pavement Marking Standard Detail Blocks	Frank Belleque	503/986-3791
TM501	Pavement Marking Standard Detail Blocks	Frank Belleque	503/986-3791
TM502	Pavement Marking Standard Detail Blocks	Frank Belleque	503/986-3791
TM503	Pavement Marking Standard Detail Blocks	Frank Belleque	503/986-3791
TM504	Pavement Marking Standard Detail Blocks	Frank Belleque	503/986-3792
TM505	Rail Crossing Pavement Markings	Frank Belleque	503/986-3791
TM515	Pavement Markers	Martin Klug	503/986-3791
TM516	Raised Pavement Markers: Freeway Median Crossover	Frank Belleque	503/986-3791
TM517	Recessed Pavement Markers	Frank Belleque	503/986-3791
TM520	Durable Pavement Markings Method 'A' & Method 'D' Surface Installed Profiled	Frank Belleque	503/986-3791
TM521	Durable & High Performance Pavement Markings Surface & Groove Installed Non-Profiled	Frank Belleque	503/986-3791
TM530	Intersection Pavement Markings (Crosswalk, Stop Bar, and Bike Lane Stencil)	Martin Klug	503/986-3791
TM531	Turn Arrow Marking Details	Frank Belleque	503/986-3791
TM539	Median and Left Turn Lane Channelization Details	Frank Belleque	503/986-3791
TM547	Freeway Entrance Ramp Pavement Markings	Frank Belleque	503/986-3791
TM551	Freeway Exit Ramp Pavement Markings	Frank Belleque	503/986-3791
TM560	Alignment Layout: General	Frank Belleque	503/986-3791
TM561	Alignment Layout: Left Turn Lane, Centerline, & Medians	Frank Belleque	503/986-3791
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	503/986-3069
TM601	Multi-Post Breakaway Sign Supports Details	Scott Jollo	503/986-3069
TM602	Triangular Base Breakaway Sign Support Multi-Directional Slip Base Design	Scott Jollo	503/986-3069
TM606	Standard Truss Type VMS Bridge 50' To 167' Span Range Typical Plan and Elevation	Scott Jollo	503/986-3069
TM607	Standard Truss Type VMS Bridge 50' To 167' Span Range Notes	Scott Jollo	503/986-3069
TM608	Standard Truss Type VMS Bridge 50' To 167' Span Range Bridge Truss Detail	Scott Jollo	503/986-3069
TM609	Standard Truss Type VMS Bridge 50' To 167' Span Range End Truss Detail	Scott Jollo	503/986-3069
TM610	Standard Truss Type VMS Bridge 50' To 167' Span Range Sign Mounting and Misc. Details	Scott Jollo	503/986-3069
TM611	Standard Truss Type VMS Bridge 50' To 167' Span Range Std. Spread Ftg. Foundation Details	Scott Jollo	503/986-3069
TM612	Standard Truss Type VMS Bridge 50' To 167' Span Range Walkway Details	Scott Jollo	503/986-3069
TM614	Standard Truss Type Sign Bridge 50' To 167' Span Range Typical Plan and Elevation	Scott Jollo	503/986-3069
TM615	Standard Truss Type Sign Bridge 50' To 167' Span Range Notes	Scott Jollo	503/986-3069

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Drawing Number	Drawing Name	Technical Expert	Phone
TM616	Standard Truss Type Sign Bridge 50' To 167' Span Range Bridge Truss Detail	Scott Jollo	503/986-3069
TM617	Standard Truss Type Sign Bridge 50' To 167' Span Range End Truss Details	Scott Jollo	503/986-3069
TM618	Standard Truss Type Sign Bridge 50' To 167' Span Range Sign and Luminaire Mounting Details	Scott Jollo	503/986-3069
TM619	Standard Truss Type Sign Bridge 50' To 167' Span Range Std. Spread Ftg. Foundation Detail	Scott Jollo	503/986-3069
TM620	Standard Truss Type Sign Bridge 50' To 167' Span Range Miscellaneous Details	Scott Jollo	503/986-3069
TM621	Standard Monotube Sign/VMS Cantilever General Design Criteria	Scott Jollo	503/986-3069
TM622	Standard Monotube Sign/VMS Cantilever Notes	Scott Jollo	503/986-3069
TM623	Standard Monotube Sign/VMS Cantilever Misc. Details	Scott Jollo	503/986-3069
TM624	Standard Monotube Sign/VMS Cantilever Mounting Details	Scott Jollo	503/986-3069
TM625	Standard Monotube Sign/VMS Cantilever Luminaire Mounting Details	Scott Jollo	503/986-3069
TM626	Standard Monotube Sign/VMS Cantilever Details	Scott Jollo	503/986-3069
TM627	Std. Monotube Sign/VMS Support Spread Footing Foundation Details	Scott Jollo	503/986-3069
TM628	Standard Monotube Sign/VMS Support Drilled Shaft Details	Scott Jollo	503/986-3069
TM629	Slip Base and Fixed Base Luminaire Supports General Details and Design Criteria	Scott Jollo	503/986-3069
TM630	Slip Base and Fixed Base Luminaire Supports Base Plate & Footing Details	Scott Jollo	503/986-3069
TM631	Fixed Base Luminaire Supports Base Plate & Footing Details	Scott Jollo	503/986-3069
TM635	Breakaway Sign and Luminaire Supports - Support Location Guidelines	Scott Jollo	503/986-3069
TM650	Traffic Signal Supports General Details & Design Criteria	Scott Jollo	503/986-3069
TM651	Traffic Signal Supports Notes and Reactions	Scott Jollo	503/986-3069
TM652	Traffic Signal Supports Steel Details	Scott Jollo	503/986-3069
TM653	Traffic Signal Supports Foundation Requirements	Scott Jollo	503/986-3069
TM654	Traffic Signal Supports Recessed Terminal Cabinet	Scott Jollo	503/986-3069
TM655	Traffic Signal 60' through 75' Mast Arm Supports General Details & Design Criteria	Scott Jollo	503/986-3069
TM656	Traffic Signal 60' through 75' Mast Arm Supports Notes	Scott Jollo	503/986-3069
TM657	Traffic Signal 60' through 75' Mast Arm Supports Steel Details (SH. 1)	Scott Jollo	503/986-3069
TM658	Traffic Signal 60' through 75' Mast Arm Supports Steel Details (SH. 2)	Scott Jollo	503/986-3069
TM670	Wood Post Sign Supports	Scott Jollo	503/986-3069
TM671	3 Second Gust Wind Speed Map	Scott Jollo	503/986-3069
TM672	LRFD Ultimate Design Wind Speed Map	Scott Jollo	503/986-3069
TM675	Extruded Aluminum Panels	Scott Jollo	503/986-3069
TM676	Sign Attachments	Scott Jollo	503/986-3069
TM677	Sign Mounts	Scott Jollo	503/986-3069
TM678	Secondary Sign Mounting Details	Scott Jollo	503/986-3069
TM679	Signal Mast Arm Street Name Sign Mounts	Scott Jollo	503/986-3069
TM680	Signal Pole Mounts	Scott Jollo	503/986-3069
TM681	Perforated Steel Square Tube (PSST) Sign Support Installation	Scott Jollo	503/986-3069
TM687	Perforated Steel Square Tube (PSST) Anchor Foundation	Scott Jollo	503/986-3069
TM688	Perforated Steel Square Tube (PSST) Slip Base Foundation	Scott Jollo	503/986-3069
TM689	Temporary PSST Vane Anchor Installation	Scott Jollo	503/986-3069
TM690	Std. Monotube Walk-In VMS Cantilever General Design Criteria	Scott Jollo	503/986-3069
TM691	Std. Monotube Walk-In VMS Cantilever Walkway Details	Scott Jollo	503/986-3069
TM693	Std. Monotube VMS /Sign Bridge General Design Criteria	Scott Jollo	503/986-3069
TM694	Std. Monotube VMS /Sign Bridge Notes	Scott Jollo	503/986-3069
TM695	Std. Monotube VMS /Sign Bridge Walkway Details (Sh. 1)	Scott Jollo	503/986-3069
TM696	Std. Monotube VMS /Sign Bridge Walkway Details (Sh. 2)	Scott Jollo	503/986-3069
TM697	Std. Monotube VMS /Sign Bridge Details	Scott Jollo	503/986-3069
TM698	Std. Monotube Type 1 VMS Walk-In Bridge General Design Criteria	Scott Jollo	503/986-3069
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
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
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