

SECTION I - BARRIER

SHEET NO.	NAME
B-L (2010)	– BARRIER LEGEND
B-1	– GUARDRAIL APPLICATIONS (TYPES 1-31, 2-31, AND 3-31)
	(2010) - 1 PLAN VIEWS
	(2010) - 2 ELEVATION VIEWS AND SPLICE DETAIL
	(2010) - 3 SECTION VIEWS
B-2	– GRADING FOR GUARDRAIL END TREATMENTS (TYPES 1, 2, AND 3)
	(2013) - 1 GUARDRAIL END TREATMENT, TYPE 1
	(2013) - 2 GUARDRAIL END TREATMENT, TYPE 2
	(2010) - 3 GUARDRAIL END TREATMENT, TYPE 3
B-3	– GUARDRAIL OVER CULVERTS (TYPES 1-31, 2-31, AND 3-31)
	(2013) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-31
	(2013) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-31
	(2013) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-31
B-4 (2012)	– END ANCHORAGE , TYPE 31
B-5	– GUARDRAIL TO BARRIER CONNECTION (TYPES 1-31, 2-31, AND EXIT TYPE 31)
	(2010) - 1 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-31
	(2010) - 2 GUARDRAIL TO BARRIER CONNECTION, TYPE 1 HARDWARE
	(2010) - 3 GUARDRAIL TO BARRIER CONNECTION, BENT PLATE RUB RAIL
	(2012) - 4 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-31
	(2010) - 5 GUARDRAIL TO BARRIER CONNECTION, TYPE 2 HARDWARE
	(2010) - 6 GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 31
B-6	– BRIDGE RAIL RETROFIT (TYPES 1, 2, 3, AND 4)
	(2013) - 1 BRIDGE RAIL RETROFIT, ENTRANCE AND END APPLICATIONS
	(2010) - 2 BRIDGE RAIL RETROFIT, TYPES 1 AND 2
	(2010) - 3 BRIDGE RAIL RETROFIT, TYPE 2 HARDWARE
	(2010) - 4 BRIDGE RAIL RETROFIT, TYPE 3
	(2010) - 5 BRIDGE RAIL RETROFIT, TYPE 4
B-7 (2010)	– W-BEAM, TYPE 1-27 TO TYPE 1-31 TRANSITION SECTION
B-8	– RESERVED
B-9	– RESERVED
B-10	– RESERVED
B-11	– RESERVED
B-12	– RESERVED
B-13	– HARDWARE
	(2010) - 1 W-BEAM ELEVATION AND SECTION VIEWS
	(2010) - 2 W-BEAM STEEL POST AND OFFSET BLOCK
	(2010) - 3 W-BEAM TERMINAL CONNECTOR
	(2010) - 4 THRIE BEAM AND THRIE BEAM EXPANSION ELEMENT ELEVATION AND SECTION VIEWS
	(2010) - 5 THRIE BEAM STEEL POST AND OFFSET BLOCK
	(2010) - 6 ASYMMETRIC AND SYMMETRIC W-BEAM TO THRIE BEAM TRANSITION SECTION
	(2010) - 7 SHORT AND LONG WOOD BREAKAWAY POSTS, STEEL TUBE, SOIL PLATE, AND OFFSET BLOCKS
	(2012) - 8 SWAGED CABLE ASSEMBLAGE AND HARDWARE
	(2010) - 9 GUARDRAIL DELINEATOR AND W-BEAM BEARING PLATE
	(2010) - 10 GUARDRAIL MOUNTED RAIL
B-14	– CONCRETE SAFETY BARRIER (F SHAPE)
	(2012) - 1 32" (960) CONCRETE BARRIER, TYPICAL CAST-IN-PLACE OR SLIP-FORM ELEVATION AND SECTION VIEWS
	(2009) - 2 32" (960) CONCRETE BARRIER, TYPICAL PRE-CAST ELEVATION AND SECTION VIEWS
	(2009) - 3 42" (1050) CONCRETE BARRIER, TYPICAL CAST-IN-PLACE OR SLIP-FORM ELEVATION AND SECTION VIEWS
	(2009) - 4 SLOTTED PLATE CONNECTION DETAILS
B-15	– GUARDRAIL APPLICATIONS (TYPES 1-27, 2-27, AND 3-27)
	(2010) - 1 PLAN VIEWS
	(2010) - 2 ELEVATION VIEWS AND SPLICE DETAIL
	(2010) - 3 SECTION VIEWS



SHEET NO. NAME

SECTION I - BARRIER (CONT'D)

B-16 - GUARDRAIL OVER CULVERTS (TYPES 1-27, 2-27, AND 3-27)

(2013) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-27

(2013) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-27

(2013) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-27

B-17 (2010) - GUARDRAIL END TREATMENT (TYPE 4-27)

B-18 (2010) - CURVED GUARDRAIL SECTION

B-19 (2012) - END ANCHORAGE (TYPE 27)

B-20 - BURIED END SECTION

(2010) - 1 BURIED END SECTION - SINGLE RAIL

(2010) - 2 BURIED END SECTION - DOUBLE RAIL

(2010) - 3 POST, CONCRETE BLOCK, AND RUBRAIL DETAILS

B-21 - GUARDRAIL TO BARRIER CONNECTION (TYPES 1-27, 2-27, AND EXIT TYPE 27)

(2010) - 1 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 1-27

(2010) - 2 GUARDRAIL TO BARRIER CONNECTION, APPROACH TYPE 2-27

(2010) - 3 GUARDRAIL TO BARRIER CONNECTION, EXIT TYPE 27

SHEET NO. NAME

SECTION II - CURB & GUTTER

C-1 - P.C.C. CURB AND INTEGRAL P.C.C. CURB & GUTTER

(2013) - 1 P.C.C. CURB, TYPICAL CURB SECTION, AND TYPICAL TAPER SECTION AT NOSE OF MEDIANS

(2012) - 2 INTEGRAL P.C.C. CURB & GUTTER

C-2 - CURB RAMPS

(2013) - 1 TYPE 1

(2013) - 2 TYPE 2, 3, AND 4

(2013) - 3 TYPE 5

C-3 (2012) - ENTRANCES

C-4 (2012) - CURB OPENING DETAILS

C-5 (2011) - CURB OPENING WITH SIDEWALK DETAIL

C-6 (2014) - CURB RETAINING WALL

SHEET NO. NAME

SECTION III - DRAINAGE

D-1 - 6:1 SAFETY END STRUCTURE

(2001) - 1 DETAIL VIEWS

(2001) - 2 SCHEDULES

D-2 - 10:1 SAFETY END STRUCTURE

(2001) - 1 DETAIL VIEWS

(2001) - 2 SCHEDULES

D-3 - SAFETY GRATES

(2005) - 1 SAFETY END STRUCTURE GRATE AND ASSEMBLY DETAIL

(2007) - 2 PERSONNEL SAFETY GRATE FOR PIPE INLET DETAIL

D-R (2014) - DRAINAGE INLET REFERENCE SHEET

D-4 (2009) - INLET BOX DETAILS

D-5 - DRAINAGE INLET DETAILS

(2010) - 1 DRAINAGE INLET ASSEMBLY

(2014) - 2 DRAINAGE INLET FRAME AND GRATES

(2012) - 3 DRAINAGE INLET TOP UNITS

(2010) - 4 DRAINAGE INLET COVER SLAB DETAILS

(2010) - 5 DOUBLE INLET COVER SLAB DETAILS

(2012) - 6 34" x 24" DRAINAGE INLET AND COVER SLAB DETAILS

(2010) - 7 34" x 18" DRAINAGE INLET DETAILS

(2010) - 8 DRAINAGE INLET TOP UNIT, TYPE S

(2010) - 9 DOGHOUSE INLET BOX



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INDEX OF SHEETS (2014)

SHEET 2 OF 5

SHEET NO. NAME

SECTION III - DRAINAGE (CONT'D)

D-6 - MAHOLE DETAILS

- (2009) - 1 BOX MANHOLE ASSEMBLY
- (2001) - 2 ROUND MANHOLE ASSEMBLY
- (2001) - 3 MANHOLE, TOP UNIT, FRAME AND COVER
- (2007) - 4 BOX MANHOLE COVER SLAB

D-7 - JUNCTION BOX DETAILS

- (2009) - 1 JUNCTION BOX ASSEMBLY
- (2007) - 2 JUNCTION BOX COVER SLAB

D-8 (2010) - PIPE BEDDING

D-9 (2008) - PERFORATED PIPE UNDERDRAIN

D-10 (2011) - PIPE PLUGGING DETAIL

SHEET NO. NAME

SECTION IV - EROSION

E-1 (2014) - CONCRETE WASHOUT

E-2 (2014) - SILT FENCE

E-3 (2014) - SEDIMENT TRAP

E-4 (2014) - INLET SEDIMENT CONTROL, DRAINAGE INLET

E-5 (2014) - INLET SEDIMENT CONTROL, CULVERT INLET

E-6 (2014) - PORTABLE SEDIMENT TANK

E-7 (2014) - SUMP PIT

E-8 (2014) - SKIMMER DEWATERING DEVICE

E-9 (2014) - STONE CHECK DAM

E-10 (2014) - TEMPORARY SLOPE DRAIN

E-11 (2014) - INCREMENTAL STABILIZATION

E-12 (2014) - EROSION CONTROL BLANKET APPLICATIONS

E-13 (2014) - TURF REINFORCEMENT MAT APPLICATIONS

E-14 (2014) - STABILIZED CONSTRUCTION ENTRANCE

E-15 (2014) - SANDBAG DIKE

E-16 (2014) - SANDBAG DIVERSION

E-17 (2014) - GEOTEXTILE-LINED CHANNEL DIVERSION

E-18 (2014) - TURBIDITY CURTAIN

E-19 (2014) - STILLING WELL

E-20 (2014) - RIPRAP ENERGY DISSIPATOR

E-21 (2014) - STONE OUTLET DETAIL



SECTION V - LANDSCAPING

SHEET NO.	NAME
L-1	– PLANTING DETAILS
(2006) - 1	ROADSIDE SHRUB PLANTING DETAIL
(2006) - 2	TREE PLANTING DETAIL
(2006) - 3	PERENNIAL/GROUND COVER PLANTING DETAIL

SECTION VI - MISCELLANEOUS

SHEET NO.	NAME
M-1 (2001)	– RIGHT-OF-WAY FENCE
M-2 (2011)	– RIGHT-OF-WAY MONUMENTATION
M-3 (2013)	– SHARED-USE PATH & SIDEWALK DETAILS
M-4 (2011)	– BIKE RACK LAYOUT DETAILS
M-5 (2004)	– WOOD RAIL FENCE
M-6 (2011)	– PATTERNED HOT-MIX OR CONCRETE & BRICK PAVER DETAILS
M-7 (2006)	– CHAIN LINK FENCE DETAILS
M-8 (2014)	– P.C.C. PARKING BUMPER
M-9	– BUS STOP PAD DETAILS
(2013) - 1	BUS STOP PAD DETAILS, TYPES 1, 2, & 3
(2013) - 2	BUS STOP PAD WITH SHELTER DETAILS, TYPES 1 & 2
M-10	– BRIDGE SAFETY FENCE
(2014) - 1	BRIDGE SAFETY FENCE, TYPE 1
(2014) - 2	BRIDGE SAFETY FENCE, TYPE 2
(2014) - 3	HARDWARE

SECTION VII - PAVEMENT

SHEET NO.	NAME
P-1	– P.C.C. PAVEMENT
(2001) - 1	SLAB PLAN (WITH DOWEL AND TIE LOCATIONS)
(2004) - 2	JOINT AND SEALANT DETAILS
(2001) - 3	W BOLT, HOOK BOLT, DOWEL AND TIE BAR DETAILS
(2001) - 4	DOWEL SUPPORT BASKET
(2001) - 5	DOWEL AND TIE BAR PLACEMENT TOLERANCES
P-2	– P.C.C. PAVEMENT PATCHING
(2008) - 1	FULL DEPTH PATCH, PLAN VIEW
(2008) - 2	FULL DEPTH PATCH, SECTION VIEWS
(2004) - 3	FULL DEPTH PATCH, SEALANT DETAILS, GROUT RETENTION DISK, AND DOWEL BAR
(2001) - 4	FULL DEPTH PATCH, DOWEL AND TIE BAR PLACEMENT TOLERANCES
(2001) - 5	PARTIAL DEPTH PATCH, PLAN AND SECTION VIEWS
P-3 (2014)	– BUTT JOINTS
P-4 (2013)	– PERMANENT CROSS-ROAD PATCH OVER PIPE TRENCH DETAIL



SECTION VIII - TRAFFIC

SHEET NO.	NAME
T-1	– CONDUIT JUNCTION WELLS (2013) - 1 TYPE 1 (2013) - 2 TYPE 4 (2013) - 3 TYPE 5
T-2 (2011)	– JUNCTION WELL, GROUNDING & BONDING FOR STEEL FRAMES & LIDS
T-3	– CONDUIT JUNCTION WELLS (2013) - 1 TYPE 11 (2012) - 2 TYPE 14 (2012) - 3 TYPE 15
T-4	– CABINET BASES (2013) - 1 TYPES M & F (2013) - 2 TYPE "P & R"
T-5	– POLE BASES (2013) - 1 ROUND BASE & ROUND BASE WITH SQUARE FOUNDATION HEADER (2013) - 2 TYPICAL SECTION AND INSTALLATION (BASES 1, 2, 2A, 2B, 3, 3A, AND 3B) (2014) - 3 TYPICAL SECTION (BASES 6) AND POLE BASE DATA CHART (2014) - 4 TYPICAL SECTION (BASE 4A AND 4B) AND ANCHOR DETAIL
T-6 (2011)	– SPECIAL POLE BASE
T-7 (2005)	– SIGN FOUNDATION
T-8	– LOOP DETECTOR LEAD-IN WIRE INSTALLATION (2013) - 1 JUNCTION WELL BEHIND CURB OR CURB AND GUTTER WITH GRASS STRIP (2013) - 2 JUNCTION WELL BEHIND CURB OR CURB & GUTTER WITH SIDEWALK AND JUNCTION WELL DIRECTLY BEHIND CURB OR CURB & GUTTER (2013) - 3 JUNCTION WELL IN CONCRETE ISLAND (2013) - 4 JUNCTION WELL WITHOUT CURB OR CURB & GUTTER WITH SIDEWALK AND GRASS STRIPS AND JUNCTION WELL DIRECTLY ADJACENT TO PAVED SURFACE
T-9	– LOOP DETECTOR INSTALLATION (2013) - 1 LOOP DETECTOR SAWCUT TYPICAL, HOT MIX SURFACE TYPICAL SECTION, AND SPLICE KIT (2013) - 2 TYPICAL INTERSECTION LAYOUT (2013) - 3 PEDESTRIAN CROSSING TYPICAL LAYOUT
T-10	– **DETAIL REMOVED IN 2012 REVISION**
T-11	– MESSENGER WIRE ATTACHMENT (2005) - 1 INTERMEDIATE MESSENGER WIRE ATTACHMENT ON WOOD POLES (2005) - 2 ANGULAR INTERMEDIATE MESSENGER WIRE ATTACHMENT
T-12	– MESSENGER WIRE ATTACHMENT (2005) - 1 SPAN WIRE ATTACHMENT BETWEEN POLES (2005) - 2 DEAD END MESSENGER WIRE ATTACHMENT
T-13 (2013)	– CONDUIT JUNCTION WELL, TYPE 7
T-14	– EMERGENCY PREEMPTION RECIEVER (2006) - 1 UPRIGHT MOUNT (2005) - 2 INVERTED MOUNT
T-15 (2013)	– BREAKAWAY SIGN POST AND PIN ASSEMBLY DETAILS
T-16 (2010)	– WOOD BARRICADE DETAILS
T-17 (2013)	– ELECTRICAL SERVICE PEDESTAL - LIGHTING, SIGNAL & 'ITMS' COMPONENT INSTALLATIONS

