

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)
	(2010) - 1 GUARDRAIL END TREATMENT, TYPE 1
	(2010) - 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)
	(2010) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-31
	(2010) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-31
	(2010) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-31
B-4 (2010)	– 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
	(2010) - 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)
	(2010) - 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
	(2010) - 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)
	(2009) - 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

SECTION I - BARRIER (CONT'D)

SHEET NO.	NAME
B-16	- GUARDRAIL OVER CULVERTS (TYPES 1-27, 2-27, AND 3-27)
	(2010) - 1 GUARDRAIL OVER CULVERTS, TYPE 1-27
	(2010) - 2 GUARDRAIL OVER CULVERTS, TYPE 2-27
	(2010) - 3 GUARDRAIL OVER CULVERTS, TYPE 3-27
B-17 (2010)	- GUARDRAIL END TREATMENT (TYPE 4-27)
B-18 (2010)	- CURVED GUARDRAIL SECTION
B-19 (2010)	- 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

SECTION II - CURB & GUTTER

SHEET NO.	NAME
C-1	- P.C.C. CURB AND INTEGRAL P.C.C. CURB & GUTTER
	(2011) - 1 P.C.C. CURB, TYPICAL CURB SECTION, AND TYPICAL TAPER SECTION AT NOSE OF MEDIANS
	(2011) - 2 INTEGRAL P.C.C. CURB & GUTTER
C-2	- CURB RAMPS
	(2008) - 1 TYPE 1
	(2008) - 2 TYPE 2, 3, AND 4
	(2008) - 3 SECTIONS FOR TYPES 2, 3, AND 4
	(2006) - 4 TYPE 5
C-3 (2010)	- ENTRANCES
C-4 (2010)	- CURB OPENING DETAILS
C-5 (2011)	- CURB OPENING WITH SIDEWALK DETAIL

SECTION III - DRAINAGE

SHEET NO.	NAME
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 (2011)	- DRAINAGE INLET REFERENCE SHEET
D-4 (2009)	- INLET BOX DETAILS
D-5	- DRAINAGE INLET DETAILS
	(2010) - 1 DRAINAGE INLET ASSEMBLY
	(2010) - 2 DRAINAGE INLET FRAME AND GRATES
	(2011) - 3 DRAINAGE INLET TOP UNITS
	(2010) - 4 DRAINAGE INLET COVER SLAB DETAILS
	(2010) - 5 DOUBLE INLET COVER SLAB DETAILS
	(2011) - 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

SECTION III - DRAINAGE (CONT'D)

SHEET NO.	NAME
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

SECTION IV - EROSION

SHEET NO.	NAME
E-1 (2001)	– INCREMENTAL STABILIZATION
E-2 (2006)	– SILT FENCE
E-3 (2005)	– DRAINAGE INLET SEDIMENT CONTROL
E-4	– RESERVED
E-5 (2006)	– STONE CHECK DAM
E-6 (2005)	– SEDIMENT TRAP
E-7 (2005)	– SEDIMENT TRAP, USING DRAINAGE INLET AS OUTLET
E-8	– RISER PIPE ASSEMBLY FOR SEDIMENT TRAP
	(2006) - 1 ELEVATION
	(2006) - 2 TRASH HOOD DETAILS
E-9 (2005)	– EROSION CONTROL BLANKET APPLICATIONS
E-10 (2005)	– RIPRAP DITCH
E-11 (2005)	– TEMPORARY SWALE
E-12 (2005)	– PERIMETER DIKE/SWALE
E-13 (2005)	– EARTH DIKE
E-14 (2005)	– TEMPORARY SLOPE DRAIN
E-15 (2005)	– STILLING WELL
E-16 (2005)	– SUMP PIT, TYPES 1 AND 2
E-17 (2005)	– DEWATERING BASIN
E-18 (2005)	– GEOTEXTILE-LINED CHANNEL DIVERSION
E-19 (2005)	– SANDBAG DIVERSION
E-20 (2005)	– SANDBAG DIKE
E-21 (2005)	– STABILIZED CONSTRUCTION ENTRANCE
E-22 (2006)	– SKIMMER DEWATERING DEVICE
E-23	– TURBIDITY CURTAIN
	(2005) - 1 FLOATING TURBIDITY CURTAIN
	(2005) - 2 STAKED TURBIDITY CURTAIN
E-24 (2005)	– PORTABLE SEDIMENT TANK
E-25 (2005)	– TURF REINFORCEMENT MAT APPLICATIONS
E-26 (2006)	– RIPRAP ENERGY DISSIPATOR 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 (2009)	- BOLLARD AND SHARED-USE PATH 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 (2007)	- P.C.C. PARKING BUMPER

SECTION VII - PAVEMENT

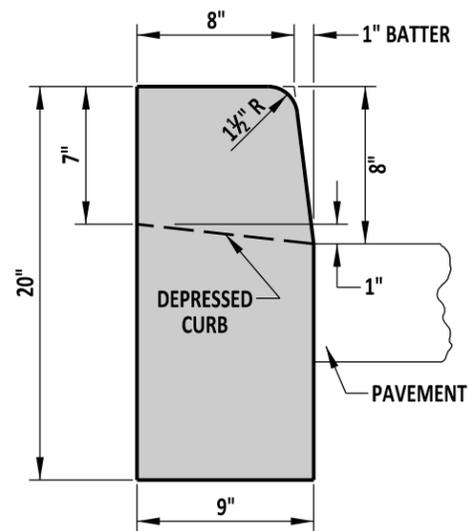
SHEET NO.	NAME
P-1	- P.C.C. PAVEMENT
(2001) - 1	SLAB PLAN (WITH DOWEL AND TIE LOCATIONS)
(2004) - 2	JOINT AND SEALANT DETAILS
(2001) - 3	W BOLT, HOOK BOLT, DOWEL AND TIE BAR DETAILS
(2001) - 4	DOWEL SUPPORT BASKET
(2001) - 5	DOWEL AND TIE BAR PLACEMENT TOLERANCES
P-2	- P.C.C. PAVEMENT PATCHING
(2008) - 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	- BUTT JOINTS



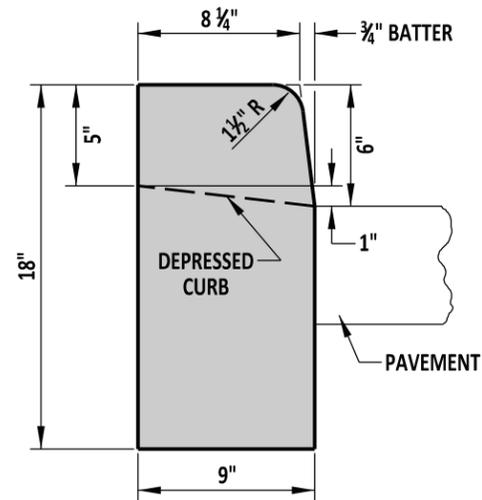
SECTION VIII - TRAFFIC

SHEET NO.	NAME
T-1	<ul style="list-style-type: none"> - CONDUIT JUNCTION WELLS (2011) - 1 TYPES 1, 2, & 3 (2011) - 2 TYPE 4 (2011) - 3 TYPE 5
T-2 (2011)	- JUNCTION WELL, GROUNDING & BONDING FOR STEEL FRAMES & LIDS
T-3	<ul style="list-style-type: none"> - CONDUIT JUNCTION WELLS (2011) - 1 TYPE 11 (2011) - 2 TYPE 14 (2011) - 3 TYPE 15
T-4	<ul style="list-style-type: none"> - CABINET BASES (2011) - 1 TYPES M & F (2011) - 2 TYPES P & R
T-5	<ul style="list-style-type: none"> - POLE BASES (2011) - 1 ROUND BASE, SQUARE BASE (2011) - 2 TYPICAL SECTION AND INSTALLATION (BASES 1, 2, 2A, 2B, 3, 3A, 3B, AND 7) (2011) - 3 TYPICAL SECTION (BASES 5 AND 6), TYPE 7 GROUND ROD DETAIL, AND POLE BASE DATA CHART (2011) - 4 TYPICAL SECTION (BASE 4) AND ANCHOR DETAIL
T-6 (2011)	- SPECIAL POLE BASE
T-7 (2005)	- SIGN FOUNDATION
T-8 (2005)	- LOOP DETECTOR TO CONDUIT JUNCTION WELL CONNECTION
T-9 (2005)	- TYPE #1 LOOP DETECTOR
T-10 (2005)	- TYPE #2 LOOP DETECTOR
T-11	<ul style="list-style-type: none"> - MESSENGER WIRE ATTACHMENT (2005) - 1 INTERMEDIATE MESSENGER WIRE ATTACHMENT ON WOOD POLES (2005) - 2 ANGULAR INTERMEDIATE MESSENGER WIRE ATTACHMENT
T-12	<ul style="list-style-type: none"> - MESSENGER WIRE ATTACHMENT (2005) - 1 SPAN WIRE ATTACHMENT BETWEEN POLES (2005) - 2 DEAD END MESSENGER WIRE ATTACHMENT
T-13	<ul style="list-style-type: none"> - CONDUIT JUNCTION WELLS (2005) - 1 TYPE 6 (2006) - 2 TYPE 7 (2006) - 3 TYPES 8 AND 10
T-14	<ul style="list-style-type: none"> - EMERGENCY PREEMPTION RECIEVER (2006) - 1 UPRIGHT MOUNT (2005) - 2 INVERTED MOUNT
T-15 (2009)	- BREAKAWAY SIGN POST AND PIN ASSEMBLY DETAILS
T-16 (2010)	- WOOD BARRICADE DETAILS

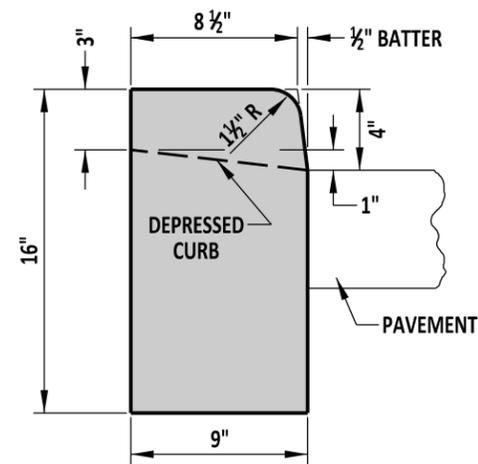




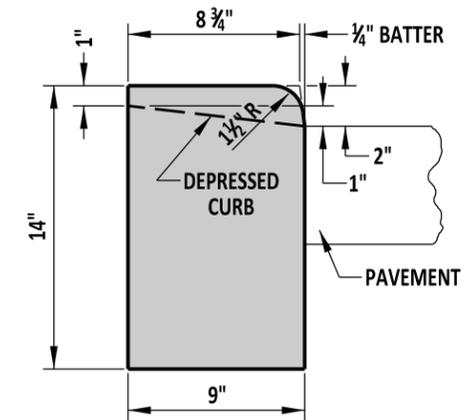
P.C.C. CURB
TYPE 1-8



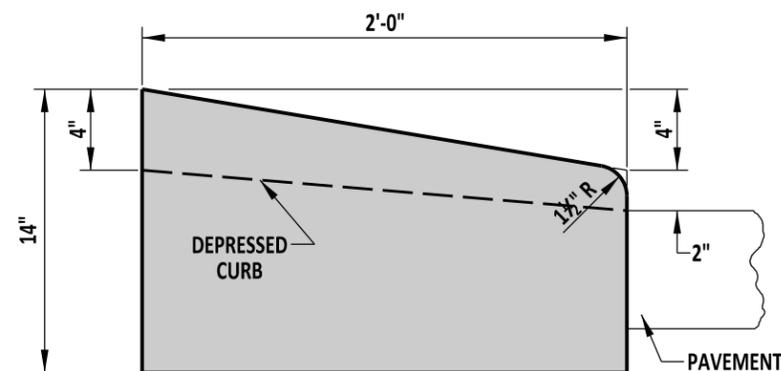
P.C.C. CURB
TYPE 1-6



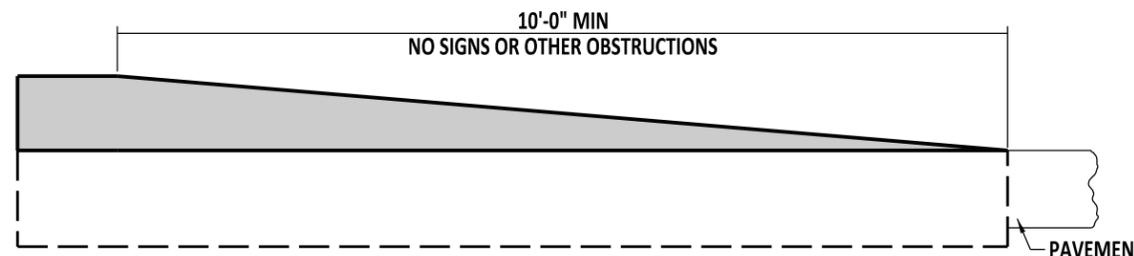
P.C.C. CURB
TYPE 1-4



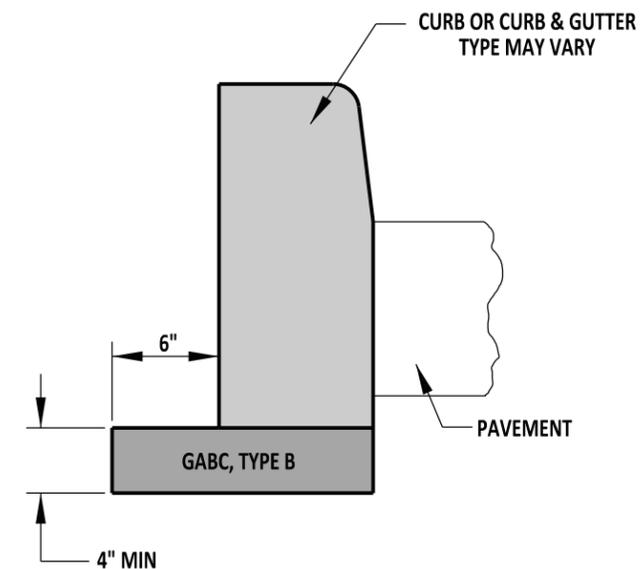
P.C.C. CURB
TYPE 1-2



P.C.C. CURB
TYPE 2



TYPICAL TAPER SECTION
AT NOSE OF MEDIANS
TYPE 1-8 CURB SHOWN



TYPICAL CURB SECTION

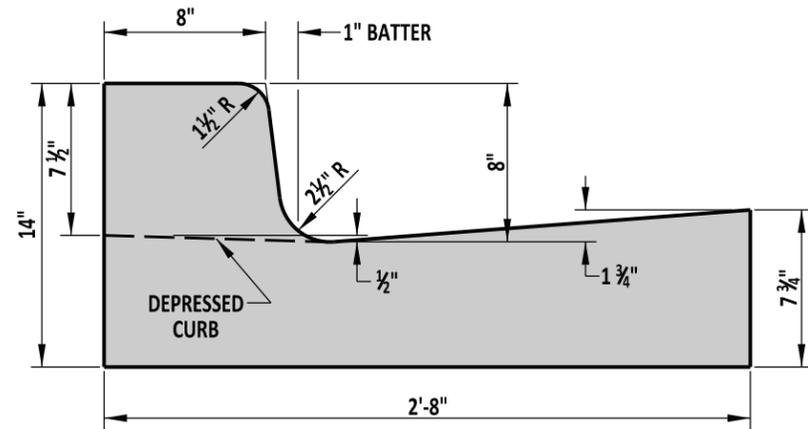
NOTES:

- 1). WHEN P.C.C. CURB OR INTEGRAL P.C.C. CURB AND GUTTER IS PLACED ADJACENT TO PORTLAND CEMENT CONCRETE PAVEMENT, CONSTRUCT THE JOINT AS PER THE LONGITUDINAL JOINT SEALANT DETAIL ON DETAIL P-2, SHEET 3 OF 5. USE APPROVED JOINT FILLER TO SEAL. WORK TO BE PAID UNDER RESPECTIVE CURB AND GUTTER ITEM.
- 2). DEPRESS CURB AT ENTRANCES AND CURB RAMPS AS DETAILED ON THIS SHEET.
- 3). DEPRESS CURB FLUSH WITH PAVEMENT AT CURB RAMPS. MAXIMUM SLOPE OF CURB AT CURB RAMPS IS 20:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. SEE DETAIL C-2, SHEET 1 OF 4.
- 4). DEPRESS CURB FLUSH WITH PAVEMENT OR ADJACENT AREA AT LEADING EDGE OF TRIANGULAR ISLANDS, TAPERING BACK TO FULL HEIGHT AT A SLOPE OF 4:1.

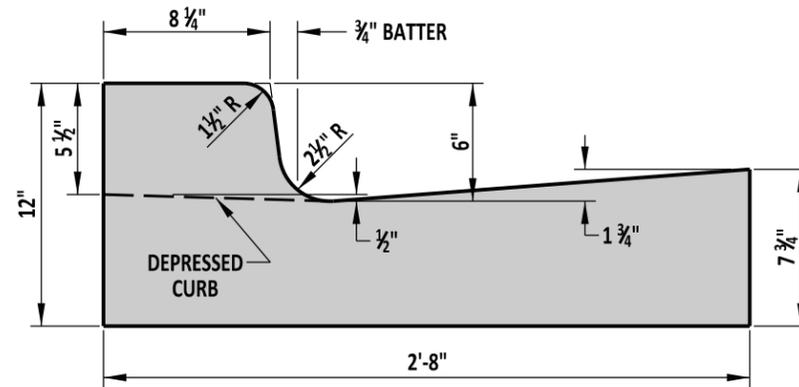


DELAWARE
DEPARTMENT OF TRANSPORTATION

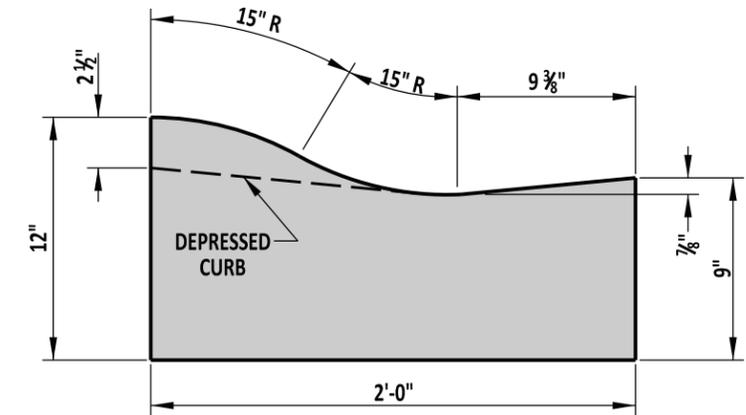
P.C.C. CURB		APPROVED	SIGNATURE ON FILE <small>CHIEF ENGINEER</small>	12/22/2011 <small>DATE</small>
STANDARD NO.	C-1 (2011)	SHT. 1 OF 2	RECOMMENDED	SIGNATURE ON FILE <small>DESIGN ENGINEER</small>
				12/21/2011 <small>DATE</small>



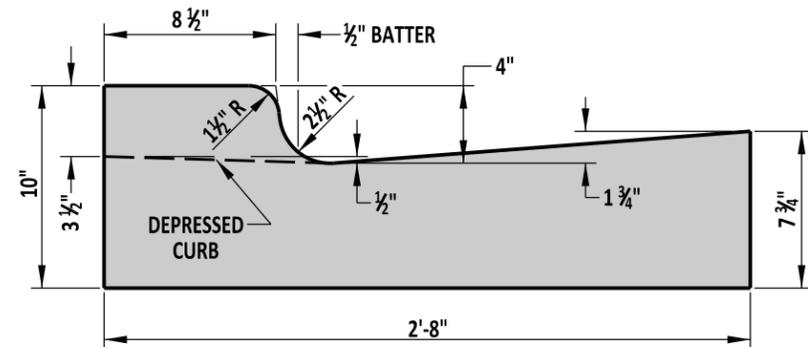
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 1-8



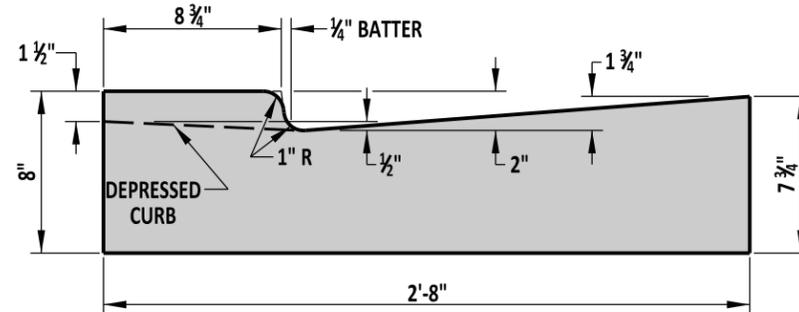
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 1-6



INTEGRAL P.C.C. CURB AND GUTTER
TYPE 2



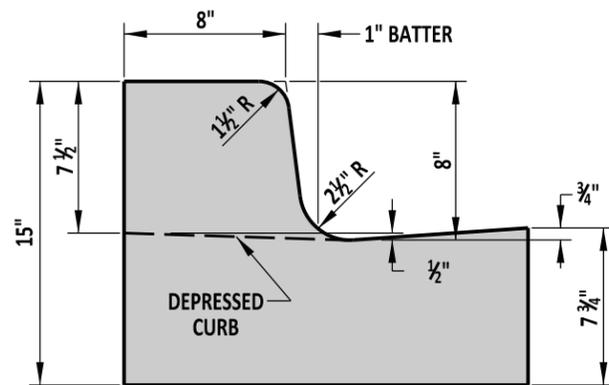
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 1-4



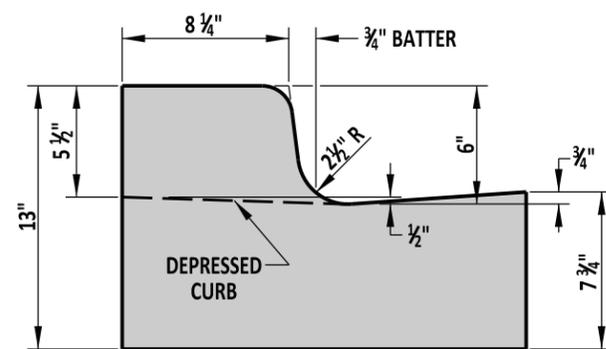
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 1-2

NOTES:

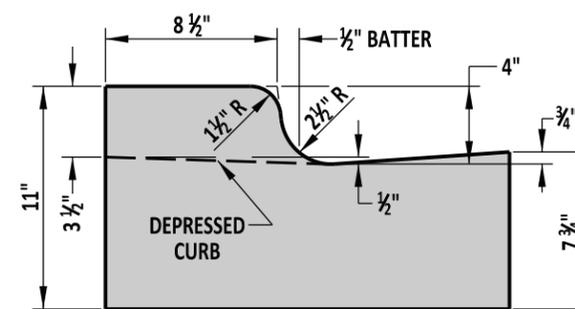
1. WHEN P.C.C. CURB OR INTEGRAL P.C.C. CURB AND GUTTER IS PLACED ADJACENT TO PORTLAND CEMENT CONCRETE PAVEMENT, CONSTRUCT THE JOINT AS PER THE LONGITUDINAL JOINT SEALANT DETAIL ON DETAIL P-2, SHEET 3 OF 5. USE APPROVED JOINT FILLER TO SEAL. WORK TO BE PAID UNDER RESPECTIVE CURB AND GUTTER ITEM.
2. DEPRESS CURB AT ENTRANCES AND CURB RAMPS AS DETAILED ON THIS SHEET.
3. DEPRESS CURB FLUSH WITH PAVEMENT AT CURB RAMPS. MAXIMUM SLOPE OF CURB AT CURB RAMPS IS 20:1 IN THE DIRECTION OF PEDESTRIAN TRAVEL. SEE DETAIL C-2, SHEET 1 OF 4.
4. DEPRESS CURB FLUSH WITH PAVEMENT OR ADJACENT AREA AT LEADING EDGE OF TRIANGULAR ISLANDS, TAPERING BACK TO FULL HEIGHT AT A SLOPE OF 4:1. SEE DETAIL C-1, SHEET 1 OF 2 FOR TYPICAL SECTION OF TAPER AT NOSE OF MEDIAN ISLANDS.
5. 4" OF GABC, TYPE B SHALL BE PLACED UNDER P.C.C. CURB AND P.C.C. CURB AND GUTTER. SEE DETAIL C-1, SHEET 1 OF 2 FOR TYPICAL SECTION.



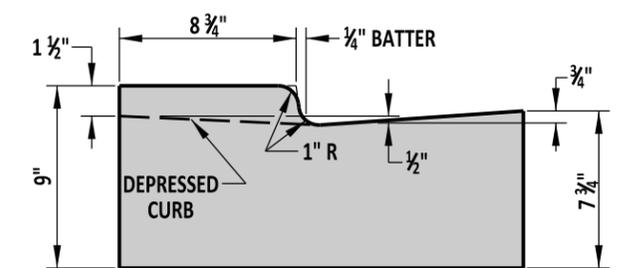
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 3-8



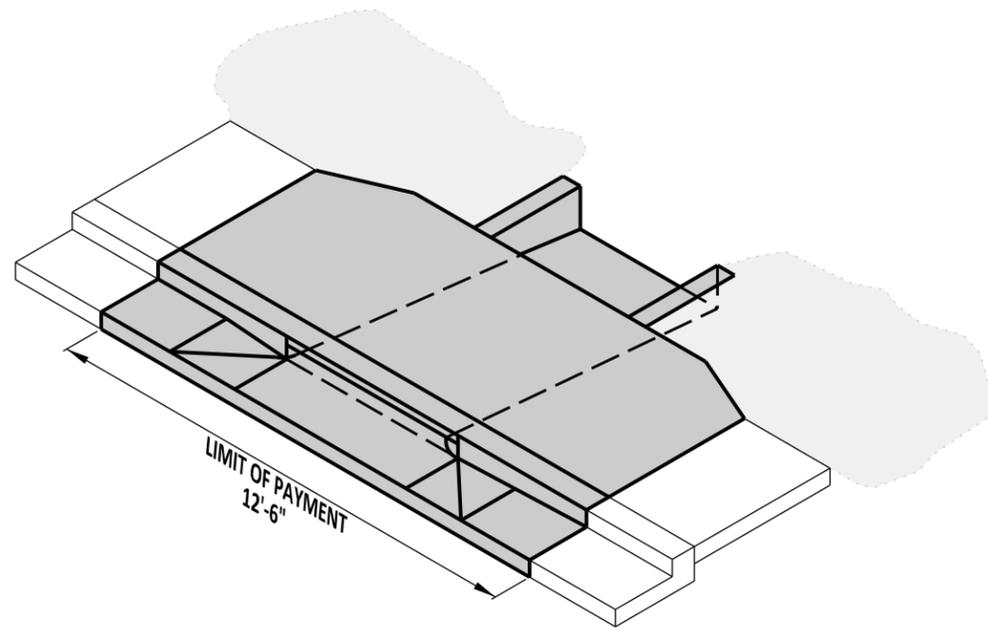
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 3-6



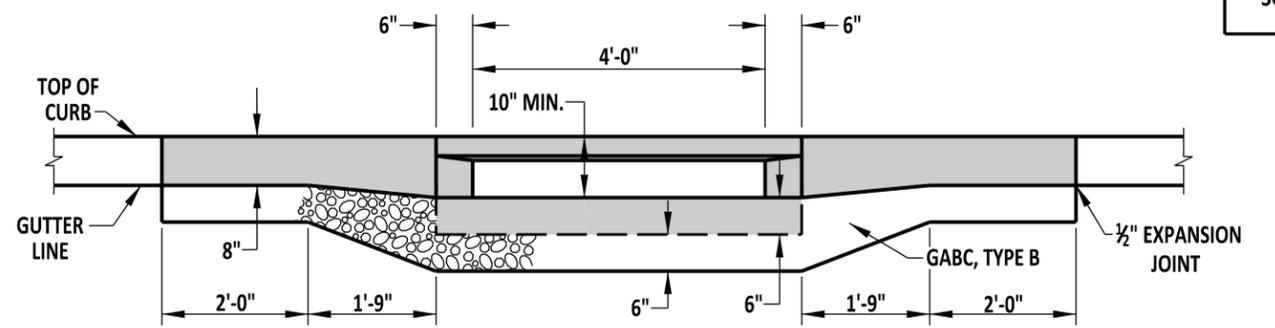
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 3-4



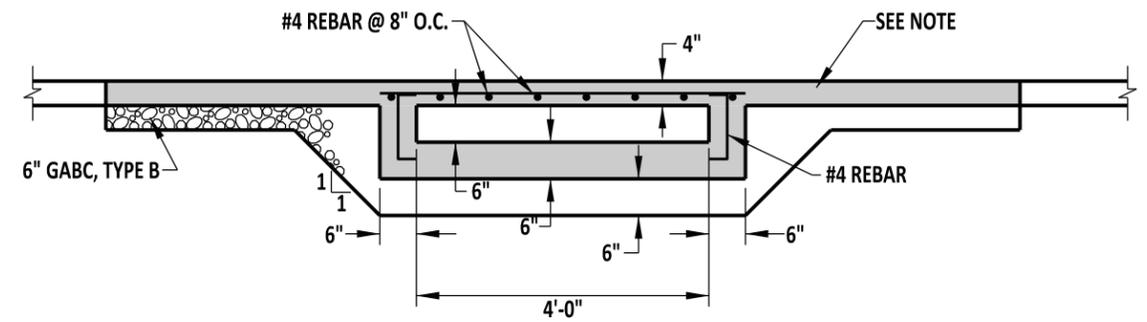
INTEGRAL P.C.C. CURB AND GUTTER
TYPE 3-2



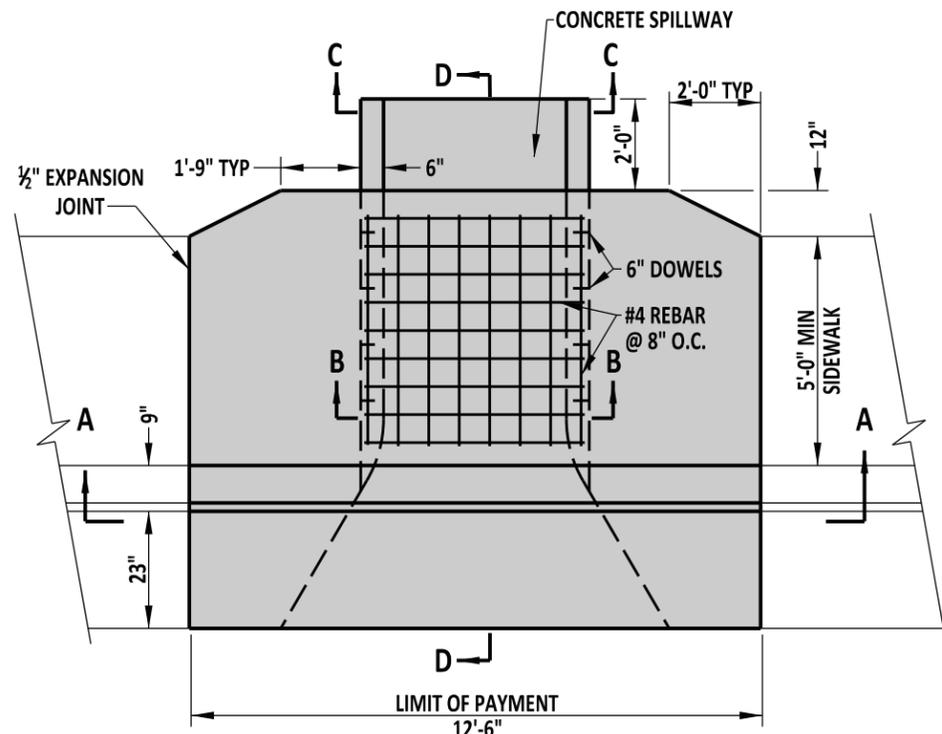
ISOMETRIC



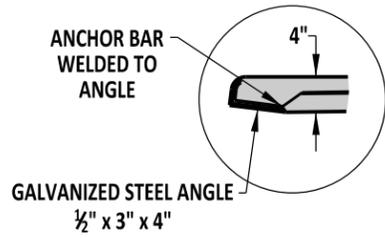
SECTION A-A



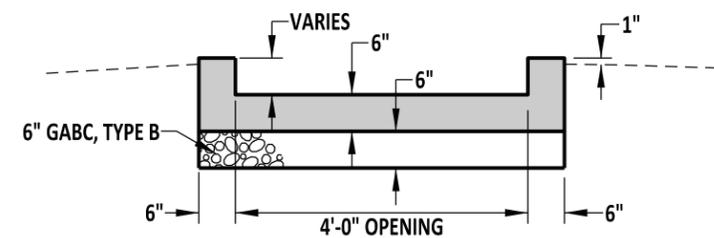
SECTION B-B



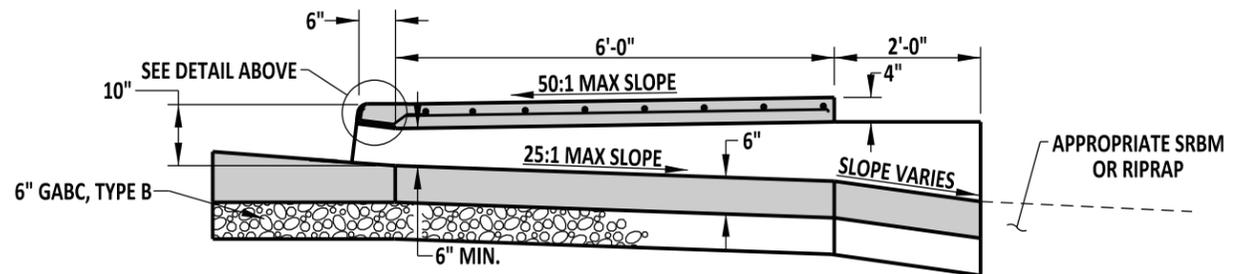
PLAN



CURB / SIDEWALK OPENING



SECTION C-C



SECTION D-D

NOTE:
 WHEN A GRASS STRIP IS PRESENT BETWEEN THE BACK OF CURB AND SIDEWALK, THE SIDEWALK PORTION OF THIS STRUCTURE MAY BE PRECAST. HOWEVER, WHEN THE SIDEWALK IS DIRECTLY BEHIND THE CURB, THE ENTIRE UNIT MUST BE CAST-IN-PLACE.



**DELAWARE
 DEPARTMENT OF TRANSPORTATION**

CURB OPENING WITH SIDEWALK DETAIL

STANDARD NO. C-5 (2011) SHT. 1 OF 1

APPROVED

SIGNATURE ON FILE
 CHIEF ENGINEER 12/22/2011
 DATE

RECOMMENDED

SIGNATURE ON FILE
 DESIGN ENGINEER 12/21/2011
 DATE

INLET BOX SIZE		COVER SLAB SIZE (L X W)	DRAINAGE INLET TOP UNIT	INLET TOP UNIT REBAR LENGTH	INLET TOP UNIT LIMIT OF PAYMENT	INLET TOP UNIT BAR BENDING DIAGRAM	FRAME & GRATE (FOUND ON DETAIL D-5, SHEET 2)	MAXIMUM PIPE SIZE (SEE NOTE 1)		MAXIMUM HEIGHT (TO TOP OF BOX)
L	W							L	W	
17 $\frac{5}{8}$ "	11 $\frac{5}{8}$ "	NO COVER SLAB	TYPE 5 (FRAME & GRATE COMBO)	N/A	N/A	N/A	TYPE 5 (FRAME & GRATE COMBO)	N/A	N/A	4'-0"
24"	24"	NO COVER SLAB	TYPE 6 (FRAME & GRATE COMBO)	N/A	N/A	N/A	TYPE 6 (FRAME & GRATE COMBO)	15"	15"	4'-0"
34"	18"	NO COVER SLAB	TYPES A, C, D, & E (DETAIL D-5, SHEET 7)	79"	82"	S504 (DETAIL D-5, SHEET 7)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	24"	12"	11'-4"
34"	24"	46" x 36" (SEE NOTE 3)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 6)	79"	82"	S503 (DETAIL D-5, SHEET 6)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	24"	15"	11'-4"
48"	30"	60" x 42" (DETAIL D-5, SHEET 4)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	93"	96"	S501 (DETAIL D-5, SHEET 6)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	36"	21"	11'-4"
48"	48"	60" x 60" (DETAIL D-5, SHEET 4)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	93"	96"	S501 (DETAIL D-5, SHEET 3)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	36"	36"	11'-4"
66"	30"	78" x 42" (DETAIL D-4, SHEET 4)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	111"	114"	S501 (DETAIL D-5, SHEET 3)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	48"	21"	11'-4"
66"	48"	78" x 60" (DETAIL D-5, SHEET 4)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	111"	114"	S501 (DETAIL D-5, SHEET 3)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	48"	36"	11'-4"
66"	66"	78" x 78" (DETAIL D-5, SHEET 4)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	111"	114"	S501 (DETAIL D-5, SHEET 3)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	48"	48"	11'-4"
72"	24"	84" x 36" DETAIL D-5, SHEET 5)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	117"	120"	S502 (DETAIL D-5, SHEET 5)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	54"	15"	11'-4"
72"	48"	84" x 60" (DETAIL D-5, SHEET 5)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	117"	120"	S502 (DETAIL D-5, SHEET 5)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	54"	36"	11'-4"
72"	72"	84" x 84" (DETAIL D-5, SHEET 5)	TYPES A, B, C, D, & E (DETAIL D-5, SHEET 3)	117"	120"	S502 (DETAIL D-5, SHEET 5)	TYPES 1 THRU 4 GRATE STANDARD DRAINAGE INLET FRAME	54"	54"	11'-4"

NOTES :

- 1). MAXIMUM PIPE SIZES ARE CALCULATED USING REINFORCED CONCRETE PIPE PERPENDICULAR TO THE BOX WALL. FOR OTHER PIPE SIZES, TYPES AND SKEW ANGLES OTHER THAN PERPENDICULAR, SEE CHART ON DELDOT DESIGN RESOURCE CENTER.
- 2). STEPS ARE REQUIRED ON ALL BOXES WHOSE DEPTH IS GREATER THAN 4'-0" (1219).
- 3). FOR A 34" X 24" DRAINAGE INLET BOX, NO COVER SLAB IS NEEDED FOR A TYPE B TOP UNIT.
- 4). SEE DETAIL D-4 OR APPROPRIATE DETAIL SHEET FOR ADDITIONAL NOTES.



DELAWARE
DEPARTMENT OF TRANSPORTATION

DRAINAGE INLET REFERENCE SHEET

STANDARD NO. D-R (2011) SHT. 1 OF 1

APPROVED

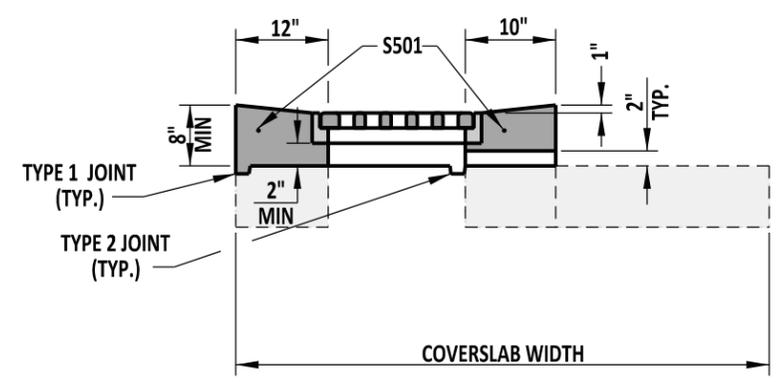
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CHIEF ENGINEER

12/22/2011
DATE

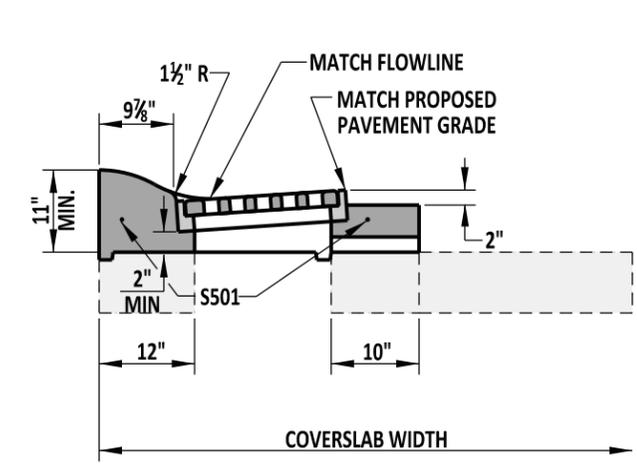
RECOMMENDED

SIGNATURE ON FILE
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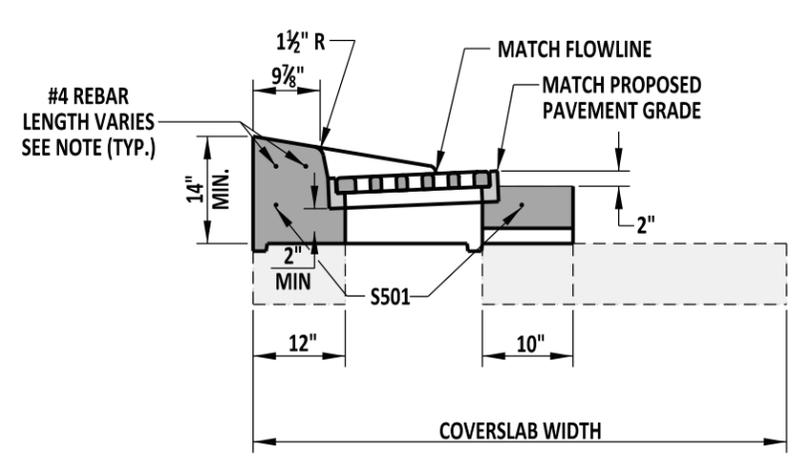
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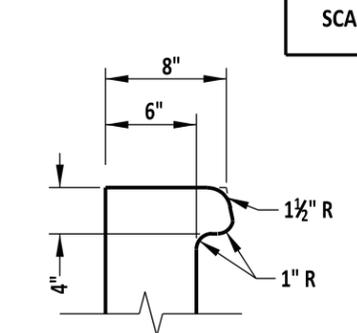
TYPE A



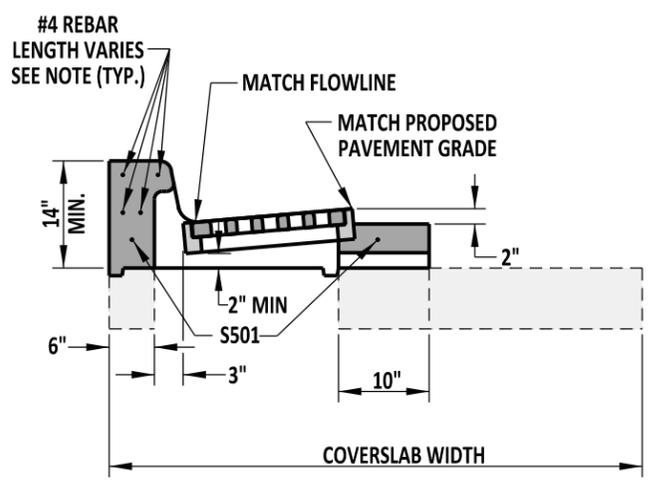
TYPE D



TYPE E

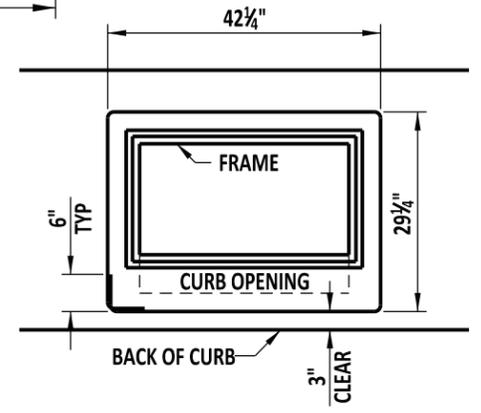


CURB OPENING DETAIL



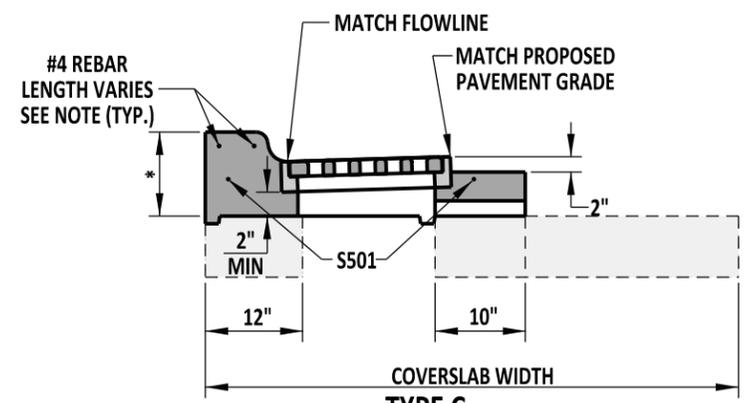
TYPE B

INLET TOP UNIT APPLICATIONS	
TOP UNIT	CURB
TYPE A	USE IN DRAINAGE SWALE
TYPE B	INTEGRAL P.C.C. CURB & GUTTER, TYPE 1-8 & 3-8, PCC CURB TYPE 1-8
TYPE C	INTEGRAL P.C.C. CURB & GUTTER, TYPES 1-6, 3-6, 1-4, 3-4, 1-2 AND 3-2 AND PCC CURB TYPE 1-6, 1-4, AND 1-2.
TYPE D	INTEGRAL P.C.C. CURB & GUTTER, TYPE 2
TYPE E	PCC CURB TYPE 2

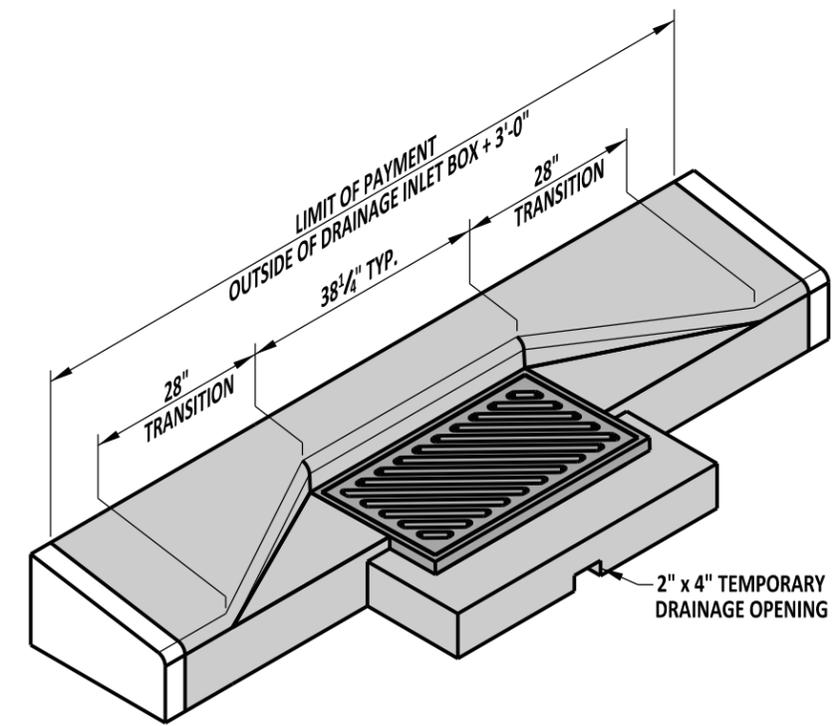


S501 BENDING DIAGRAM

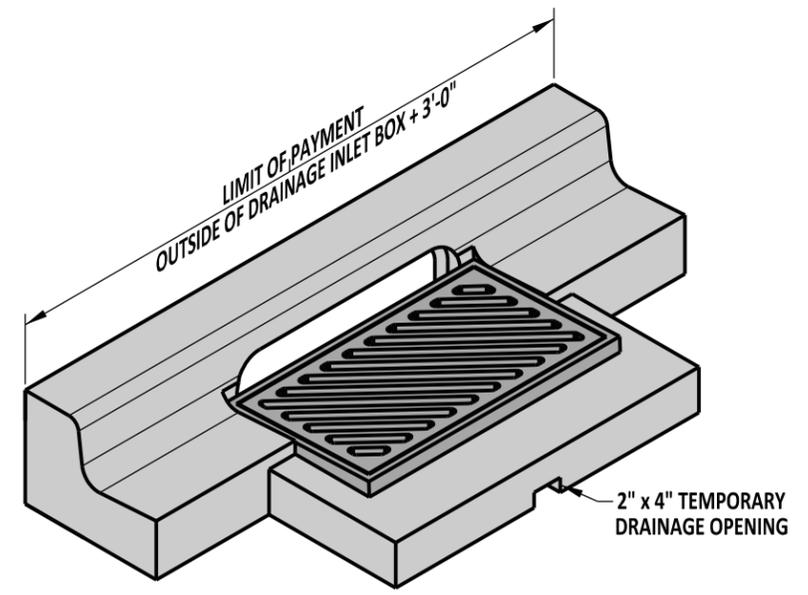
S501 IS NOT REQUIRED TO BE ONE CONTINUOUS BAR. IF MORE THAN ONE BAR IS USED, THERE MUST BE A 12" OVERLAP BETWEEN BARS.



TYPE C



ISOMETRIC VIEW
TYPE E UNIT SHOWN

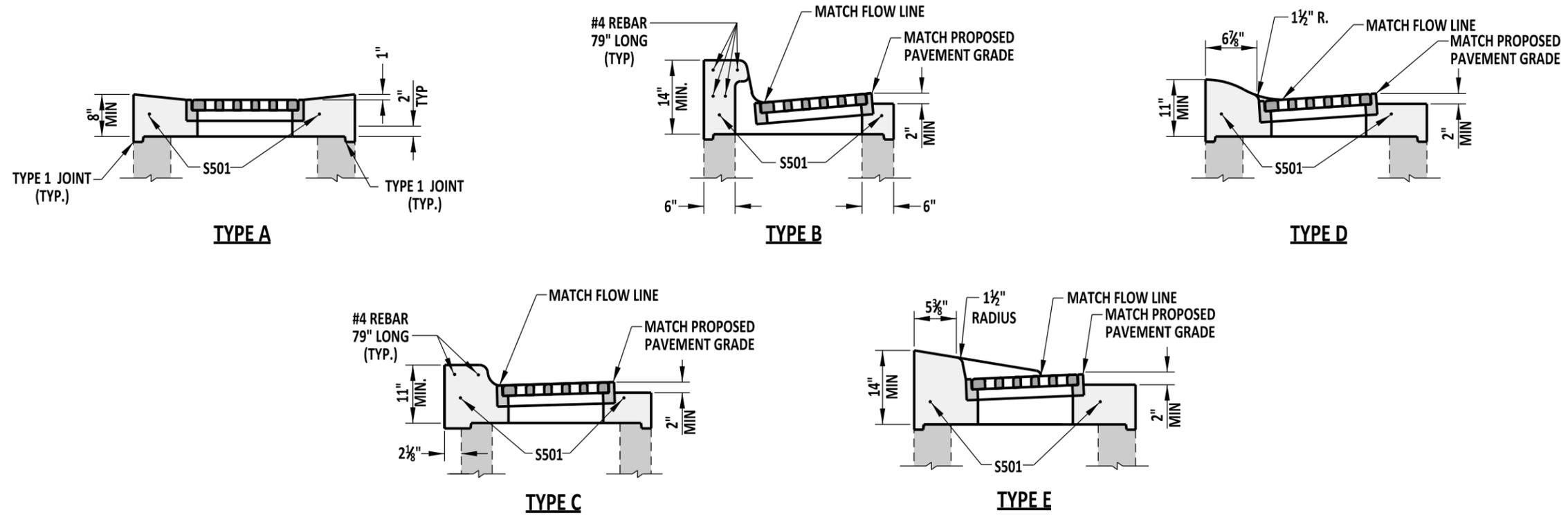


ISOMETRIC VIEW
TYPE B TOP UNIT SHOWN WITH INTEGRAL CURB & GUTTER TYPE 3

* - THIS DIMENSION VARIES BASED ON THE HEIGHT OF THE CURB AND GUTTER OR CURB USED:
 - INTEGRAL P.C.C. CURB AND GUTTER, TYPES 1-6 AND 3-6 & CURB, TYPE 1-6 - 12" MIN.
 - INTEGRAL P.C.C. CURB AND GUTTER, TYPES 1-4 AND 3-4 & CURB, TYPE 1-4 - 10" MIN.
 - INTEGRAL P.C.C. CURB AND GUTTER, TYPES 1-2 AND 3-2 & CURB, TYPE 1-2 - 8" MIN.

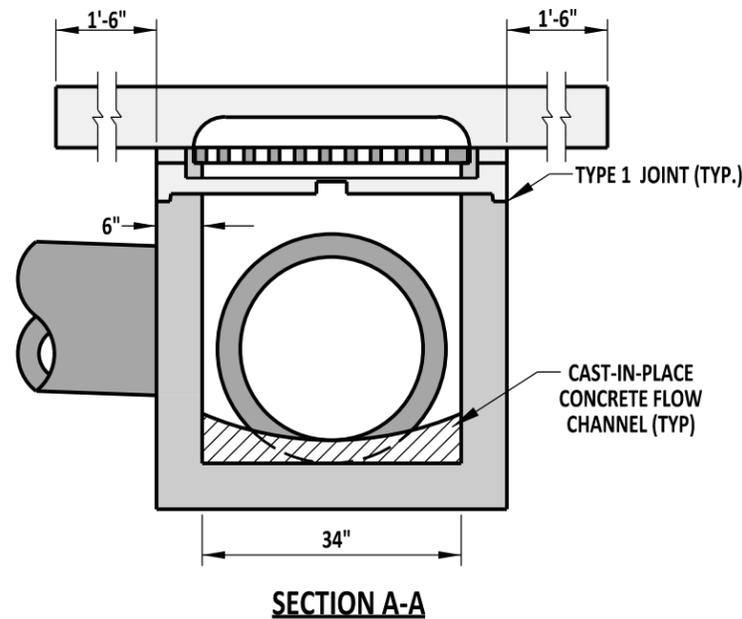
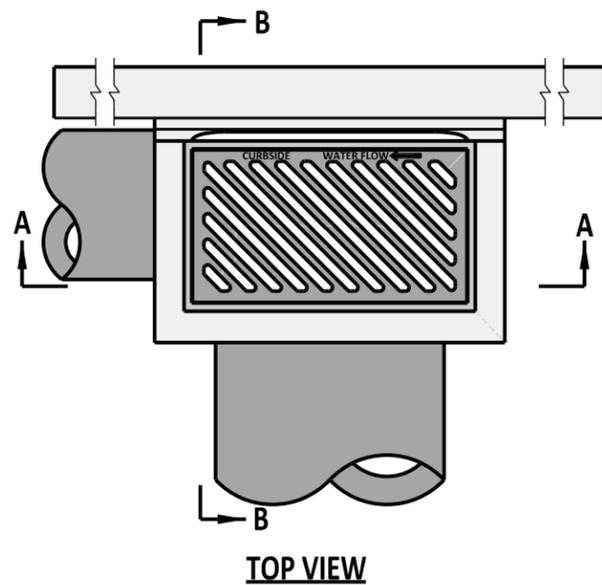
NOTE: LENGTH OF #4 REBAR SHALL BE THE OUTSIDE OF THE DRAINAGE INLET BOX PLUS 2'-9".

<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	DRAINAGE INLET TOP UNITS				APPROVED	SIGNATURE ON FILE <small>CHIEF ENGINEER</small>	02/27/2012 <small>DATE</small>
	STANDARD NO.	D-5 (2010)	SHT.	3 OF 9	RECOMMENDED	SIGNATURE ON FILE <small>DESIGN ENGINEER</small>	02/26/2012 <small>DATE</small>



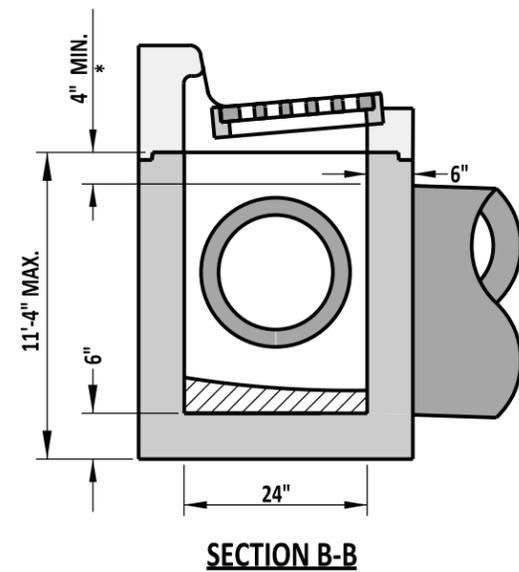
TOP UNIT DETAILS

NOTE: SEE DETAIL D-5, SHEET 3 OF 9 FOR INLET TOP UNIT APPLICATIONS.



DRAINAGE INLET DETAILS

NOTE: REFER TO PREVIOUS SHEETS FOR REINFORCING REQUIREMENTS
 * - SEE OPTIONAL PIPE OPENING DETAIL ON STANDARD NO. D-4, SHEET 1 OF 1



DELAWARE
 DEPARTMENT OF TRANSPORTATION

34" x 24" DRAINAGE INLET AND COVER SLAB DETAILS

STANDARD NO. D-5 (2011) SHT. 6 OF 9

APPROVED

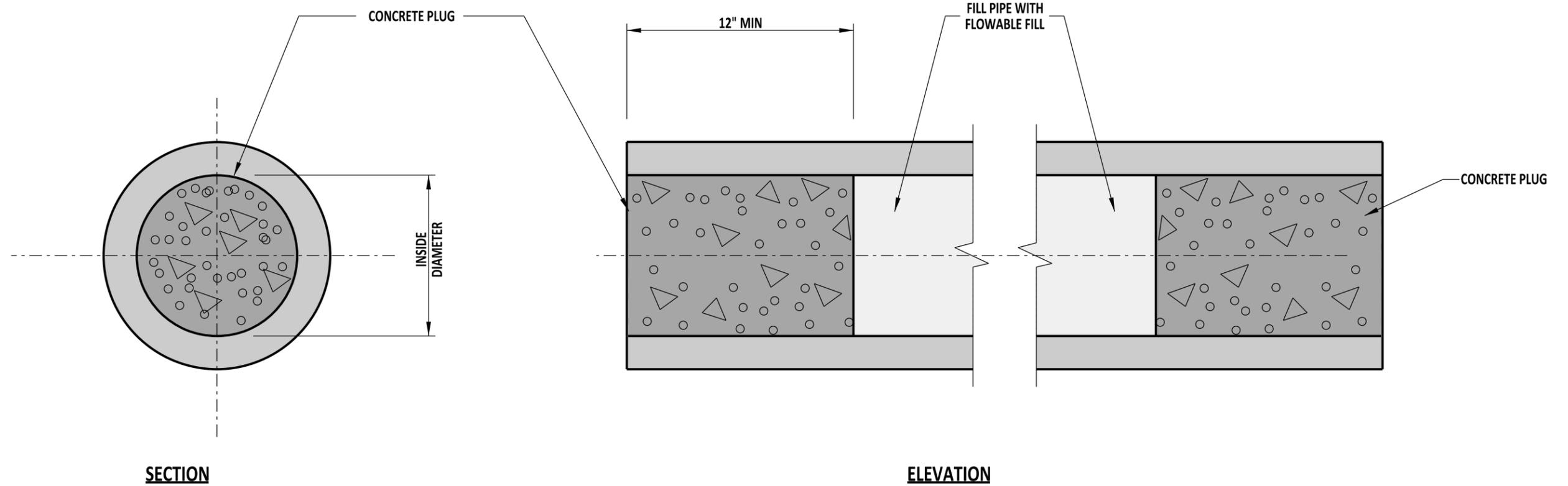
SIGNATURE ON FILE
 CHIEF ENGINEER

12/22/2011
 DATE

RECOMMENDED

SIGNATURE ON FILE
 DESIGN ENGINEER

12/21/2011
 DATE



NOTE:
 THE CONTRACTOR SHALL FURNISH MATERIAL AND PLUG ABANDONED DRAINAGE PIPES WITH CONCRETE AS DIRECTED BY THE ENGINEER.



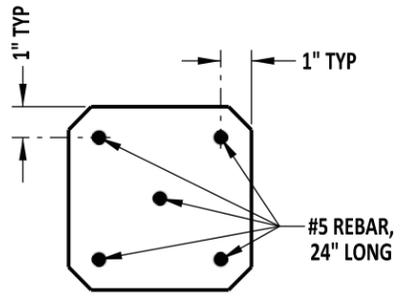
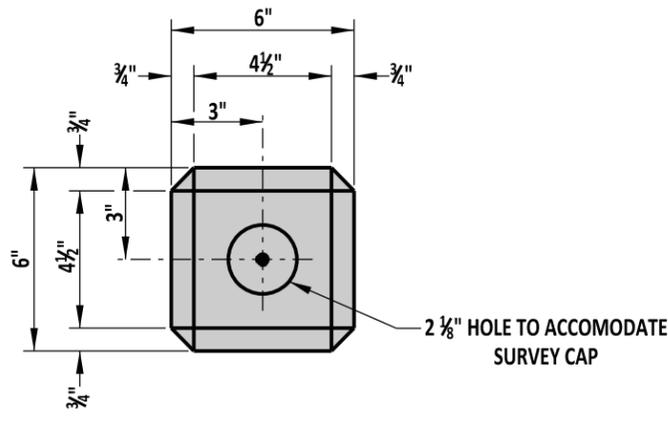
DELAWARE
DEPARTMENT OF TRANSPORTATION

PIPE PLUGGING DETAIL			
STANDARD NO.	D-10 (2011)	SHT. 1	OF 1

APPROVED	<u>SIGNATURE ON FILE</u> <small>CHIEF ENGINEER</small>	<u>12/22/2011</u> <small>DATE</small>
RECOMMENDED	<u>SIGNATURE ON FILE</u> <small>DESIGN ENGINEER</small>	<u>12/21/2011</u> <small>DATE</small>

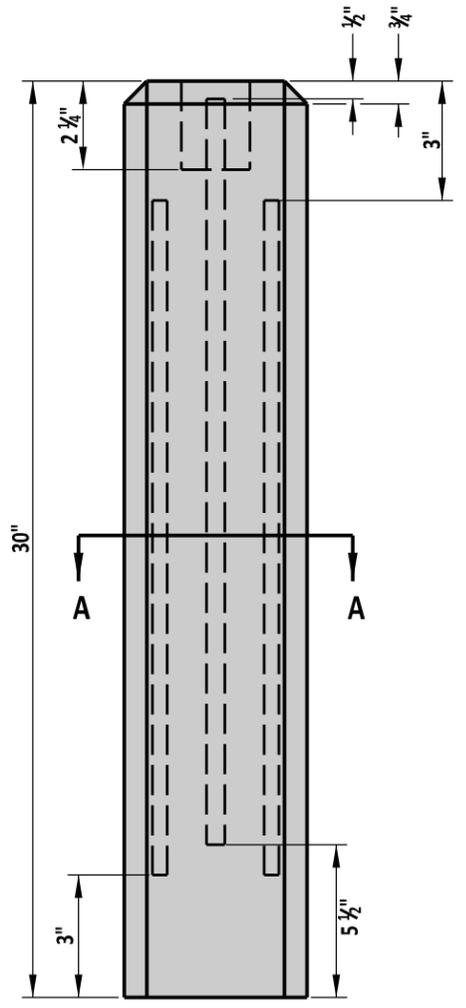
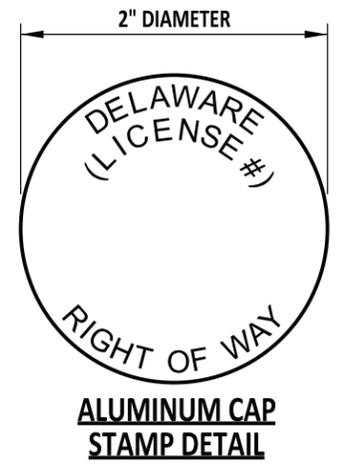
SCALE : NTS

- NOTES : 1). LONGITUDINAL STEEL SHALL BE HELD IN PLACE BY CRADLES.
 2). LETTERS ON CONCRETE MONUMENT TO BE COUNTERSUNK IN TOP OF MARKER 1/4".
 3). FLEXIBLE DELINEATORS ARE ONLY TO BE USED ON ROADS WITH A SPECIFIED DENIAL OF ACCESS OR CLASSIFIED AS MINOR ARTERIALS OR HIGHER. ON ALL OTHER ROAD CLASSIFICATIONS, A WOODEN STAKE SHALL BE PLACED WITH "ROW" HANDWRITTEN VERTICALLY IN 1" TALL LETTERS.
 4). PLACE CAP ON CONCRETE MONUMENT SO THAT TOP OF CAP IS FLUSH WITH THE TOP OF THE CONCRETE MONUMENT.

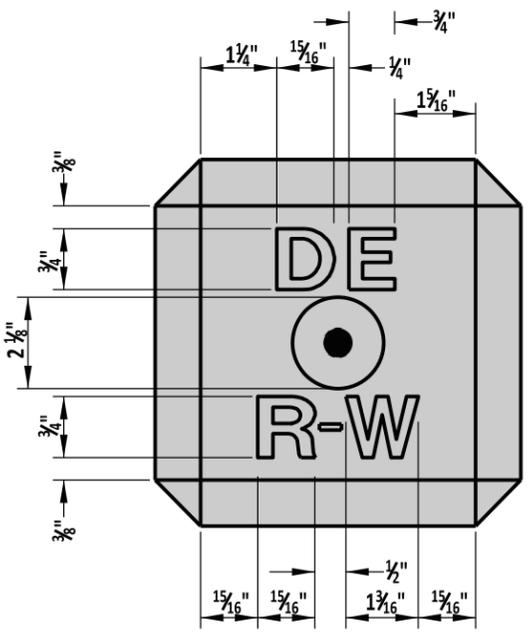


SECTION A-A

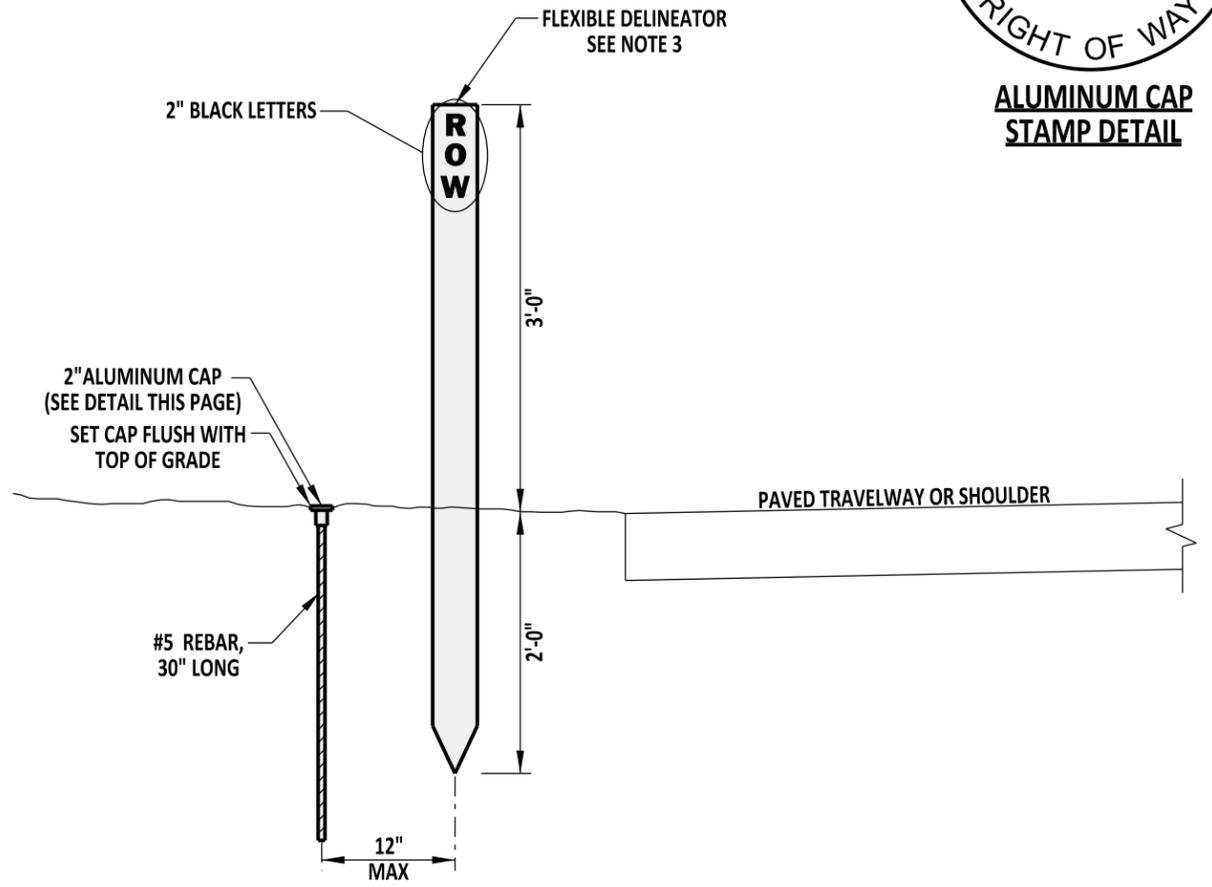
TOP



ELEVATION



TOP DETAIL

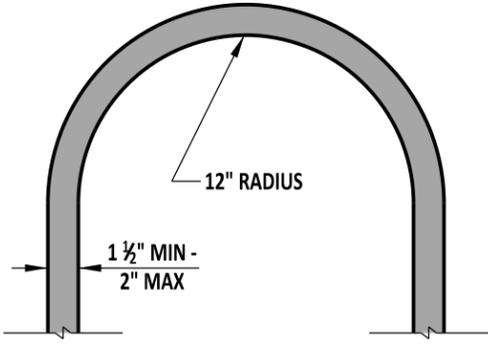


REBAR AND CAP WITH FLEXIBLE DELINEATOR DETAIL

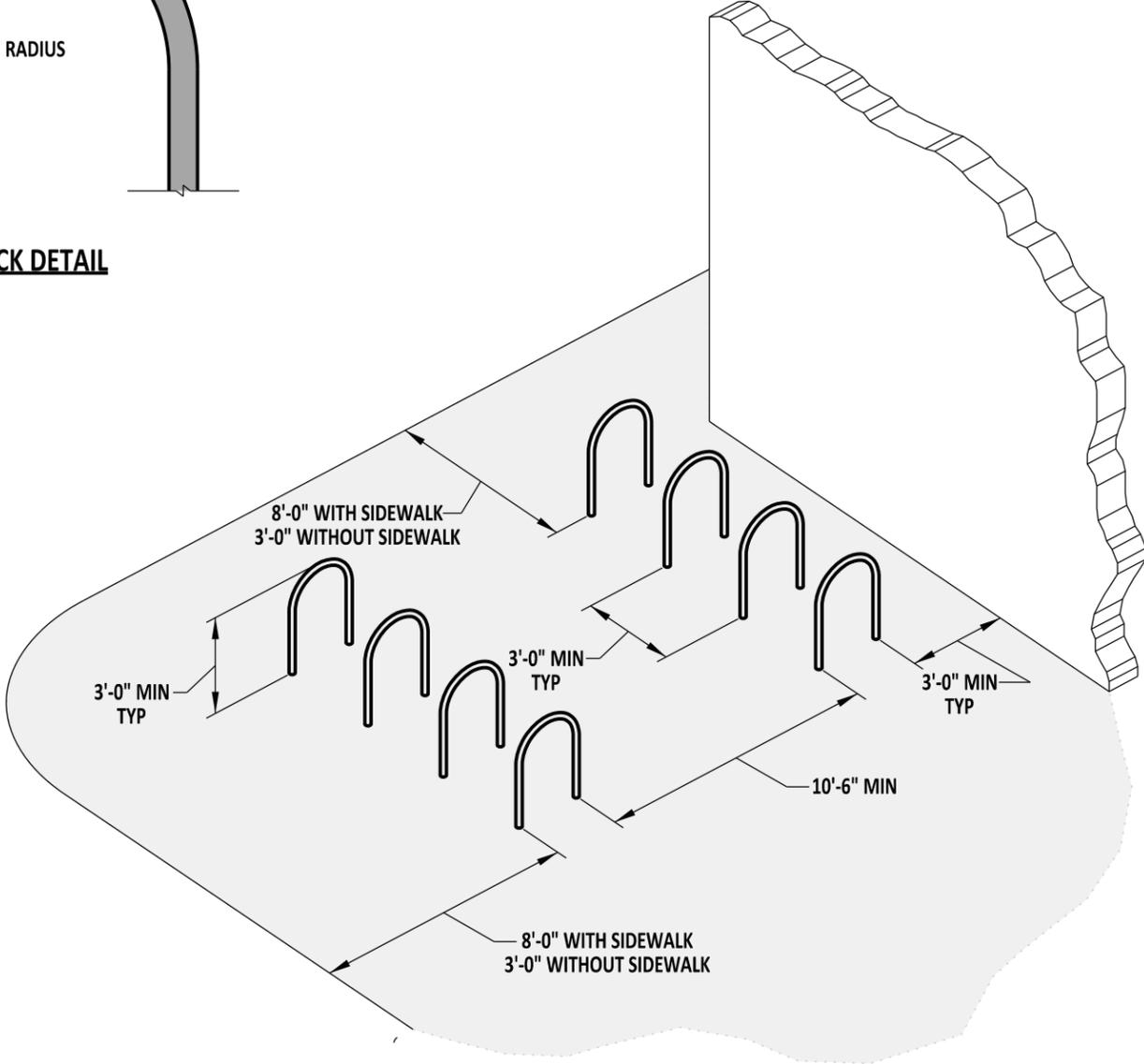
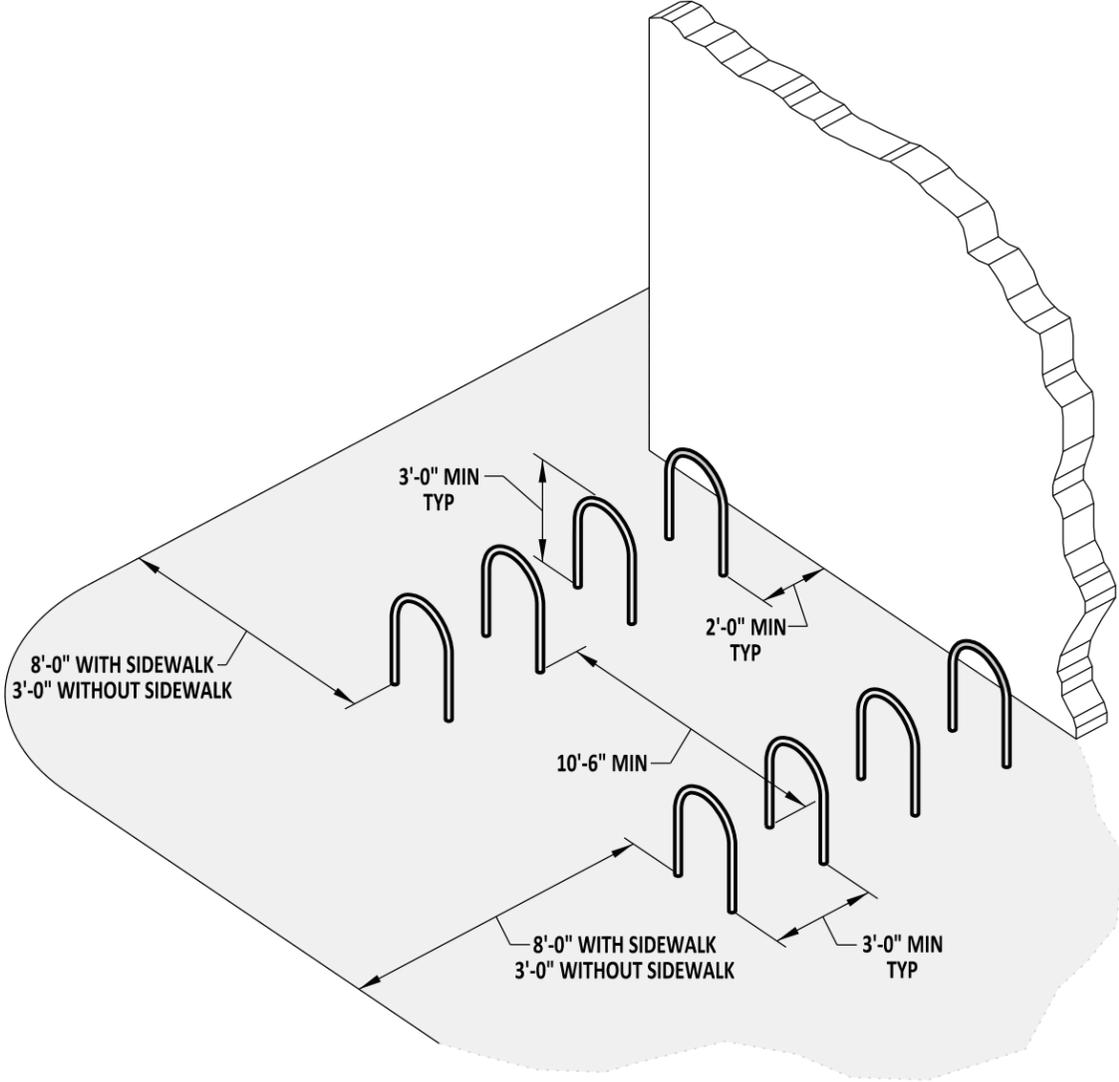


RIGHT OF WAY MONUMENTATION			
STANDARD NO.	M-2 (2011)	SHT. 1	OF 1

APPROVED	SIGNATURE ON FILE	12/22/2011
	CHIEF ENGINEER	DATE
RECOMMENDED	SIGNATURE ON FILE	12/21/2011
	DESIGN ENGINEER	DATE



BIKE RACK DETAIL



- NOTES:**
- 1). BIKE RACK SHALL BE ANCHORED AS PER MANUFACTURER'S RECOMMENDATIONS AFTER APPROVAL FROM ENGINEER IN THE FIELD.
 - 2). DETAIL SHOWN WITH P.C.C. CURB TYPE 1-8, HOWEVER ACTUAL CURB VARIES AND SHOULD BE PLACED AS SHOWN ON PLANS.
 - 3). SPECIAL CONSIDERATIONS SHOULD BE TAKEN WHEN PLACING BIKE RACKS NEAR CURB RAMPS AND MAY REQUIRE A DETAIL ON THE PLANS.



DELAWARE
DEPARTMENT OF TRANSPORTATION

BIKE RACK LAYOUT DETAILS

STANDARD NO. M-4 (2011) SHT. 1 OF 1

APPROVED

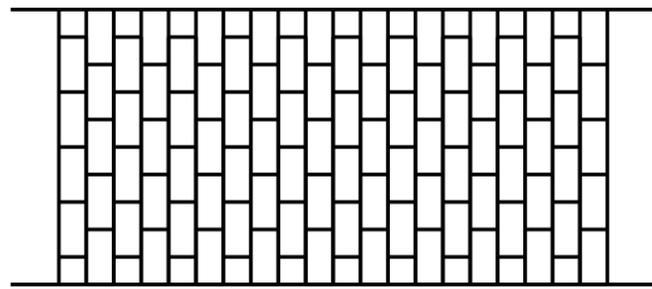
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CHIEF ENGINEER

12/22/2011
DATE

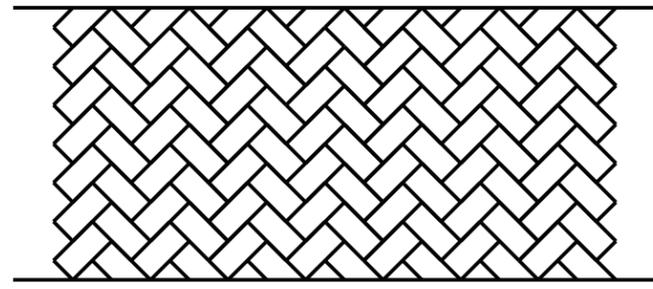
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SIGNATURE ON FILE
DESIGN ENGINEER

12/21/2011
DATE



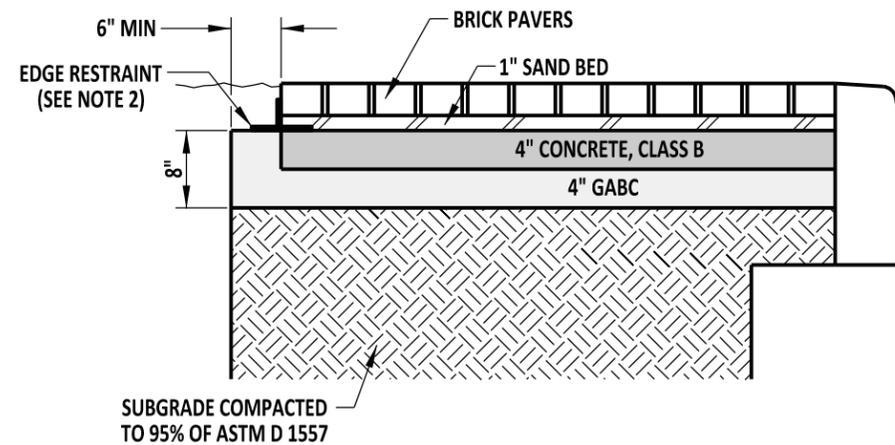
4" x 8" RUNNING BOND PATTERN



4" x 8" HERRINGBONE PATTERN

NOTES:

1. ACTUAL PATTERN TO BE USED SHALL BE SPECIFIED ON THE PLANS. COLOR IS TO BE "BRICK RED" UNLESS OTHERWISE NOTED ON THE PLANS.
2. MATERIALS AND PAVEMENT BOX VARY DEPENDING ON PLANS.
3. FOR CROSSWALK APPLICATIONS, REFER TO THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STRIPING WIDTH.
4. THE PATTERNS ABOVE ARE THE PREFERRED PATTERNS AVAILABLE FOR SIDEWALK OR CROSSWALK APPLICATIONS.



BRICK PAVER SIDEWALK DETAIL

NOTES:

1. WHEN SIDEWALK IS CONFINED BY A RIGID STRUCTURE ON BOTH SIDES, EXPANSION JOINT MATERIAL SHALL BE USED FROM TOP OF BRICK TO BOTTOM OF CONCRETE BASE ON AT LEAST ONE SIDE OF THE SIDEWALK.
2. EDGE RESTRAINT MUST BE APPROVED BY THE ENGINEER IN THE FIELD AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.



**DELAWARE
DEPARTMENT OF TRANSPORTATION**

PATTERNED HOT-MIX OR CONCRETE & BRICK PAVER DETAILS

STANDARD NO. M-6 (2011)

SHT. 1 OF 1

APPROVED

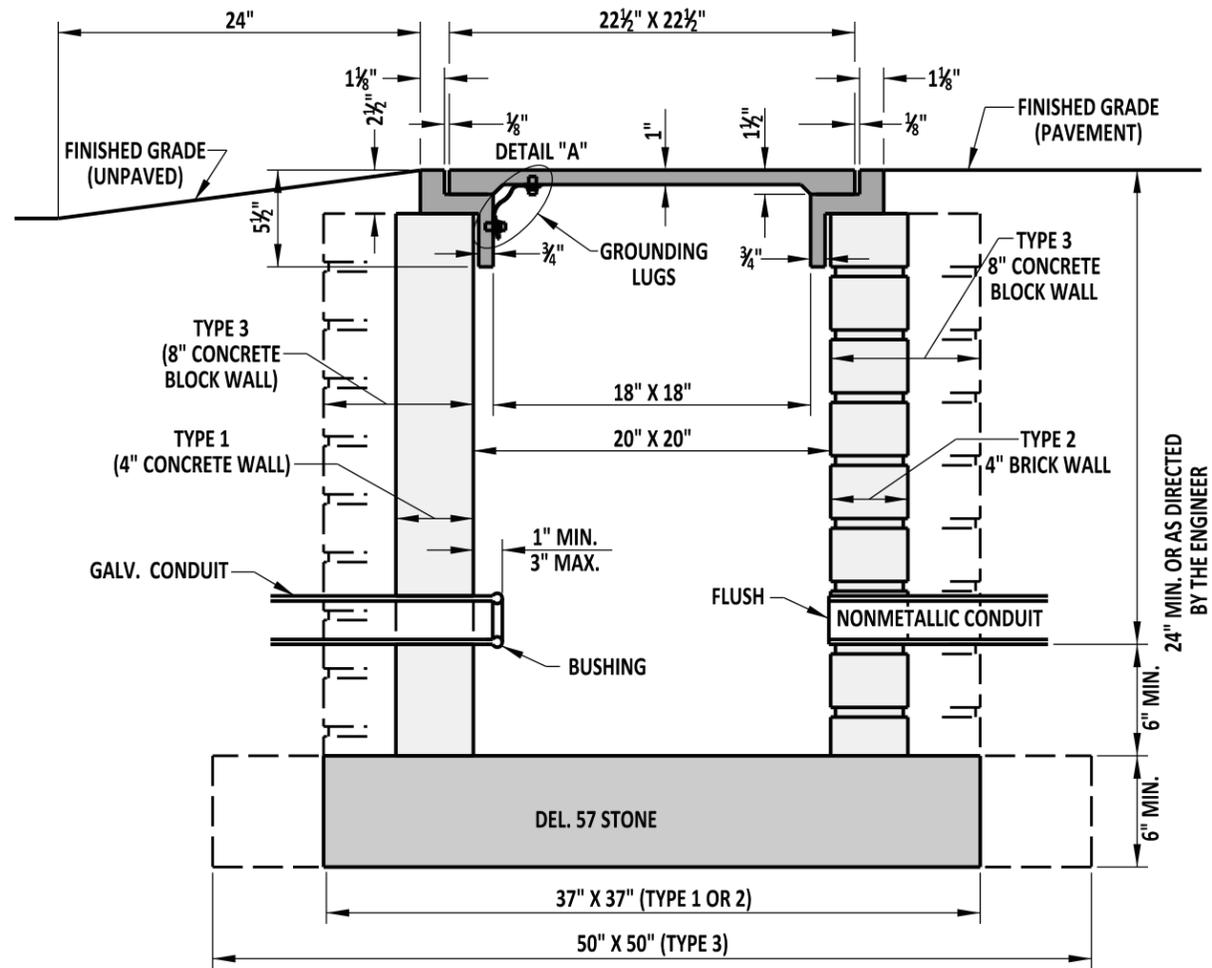
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CHIEF ENGINEER

01/17/2012
DATE

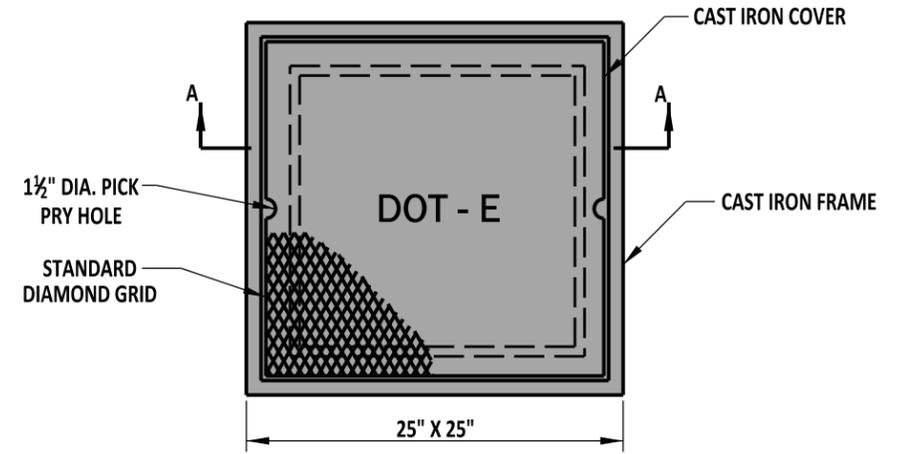
RECOMMENDED

SIGNATURE ON FILE
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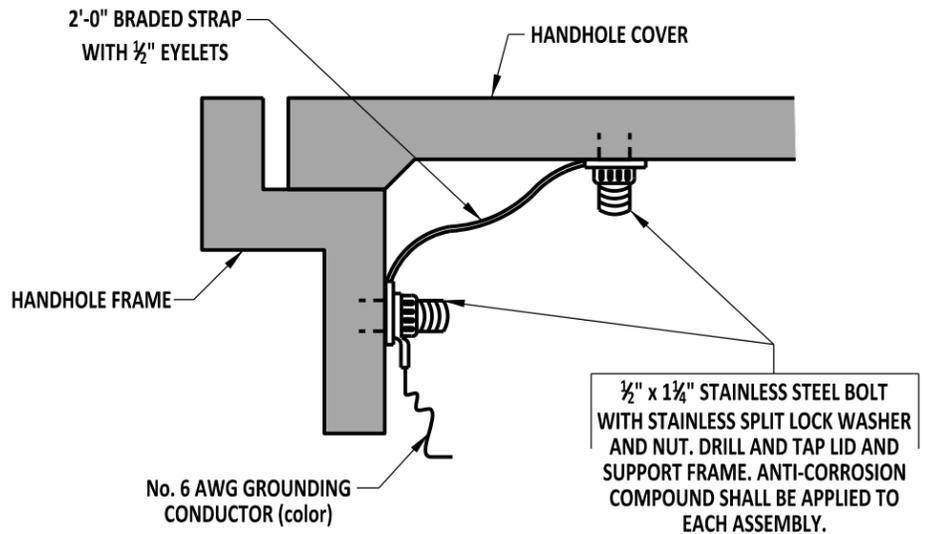
01/17/2012
DATE



SECTION A-A



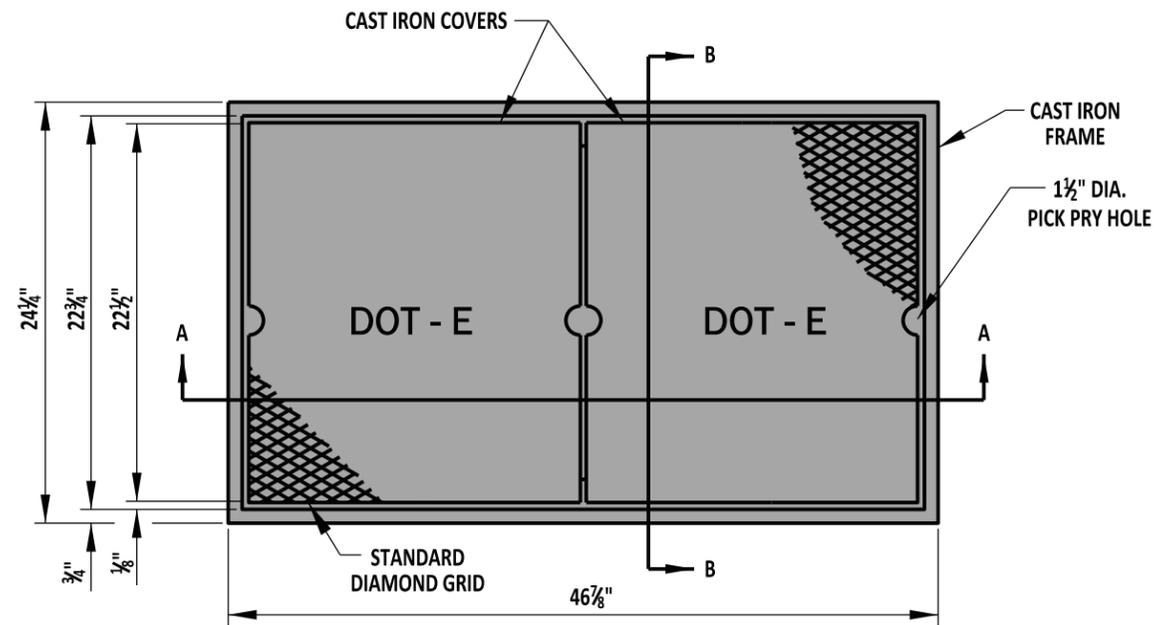
PLAN VIEW



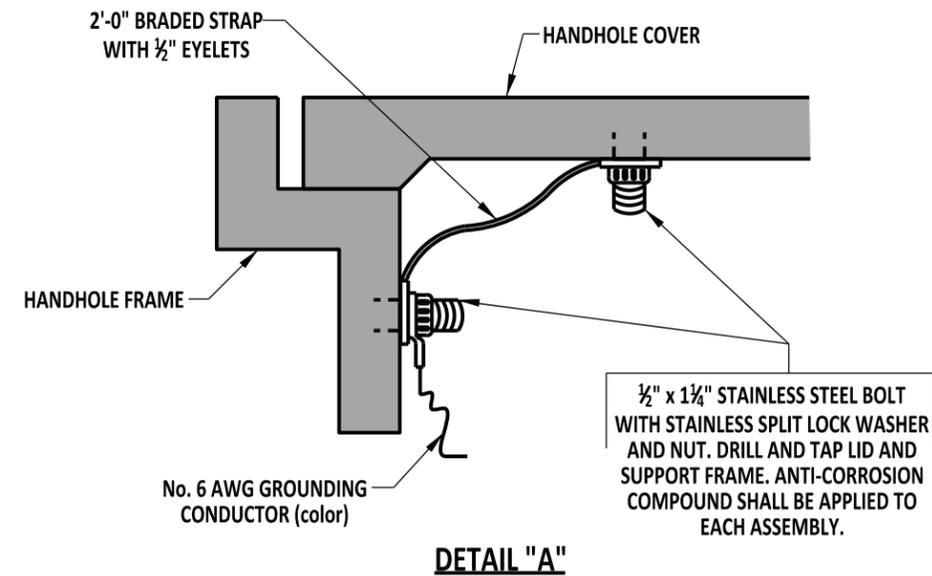
DETAIL "A"

NOTES:

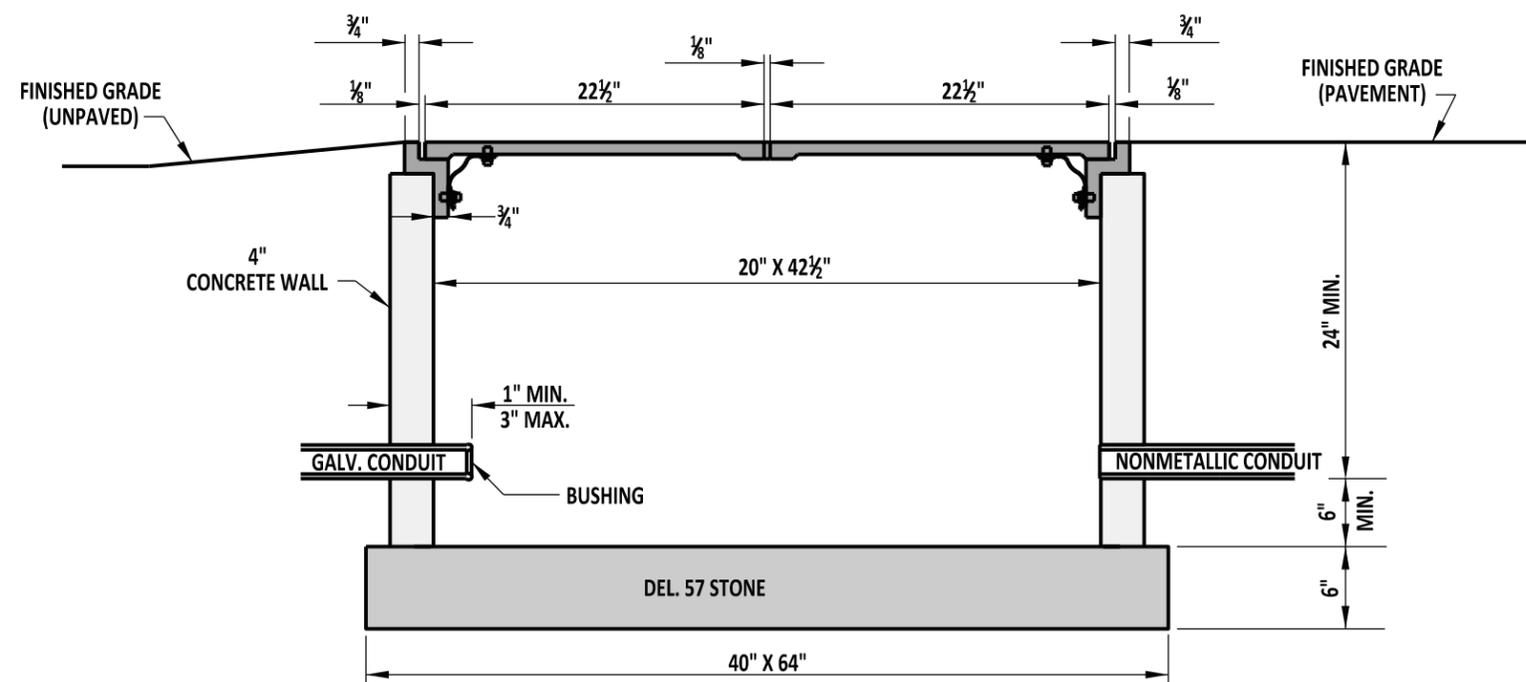
- 1). TYPE 1 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). TYPES 2 AND 3 CONDUIT JUNCTION WELLS SHALL BE BRICK AND WILL CONFORM TO STANDARD SPECIFICATIONS FOR BRICK MASONRY. JOINTS SHALL BE CONCAVE TYPE. TYPE 2 WALLS WILL BE A NOMINAL 4" THICK. TYPE 3 WALL WILL BE A NOMINAL 8" THICK.
- 3). JUNCTION WELLS SHALL NOT BE PLACED UNDER ANY TYPE OF PAVEMENT.
- 4). ALL CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- 5). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.



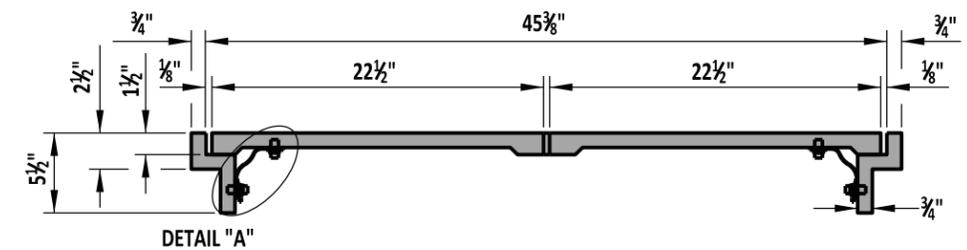
PLAN VIEW



DETAIL "A"



SECTION B-B



SECTION A-A

NOTES:

- 1). TYPE 4 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED SHALL BE WITHIN CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- 3). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.



DELAWARE
DEPARTMENT OF TRANSPORTATION

CONDUIT JUNCTION WELL, TYPE 4

STANDARD NO. T-1 (2011) SHT. 2 OF 3

APPROVED

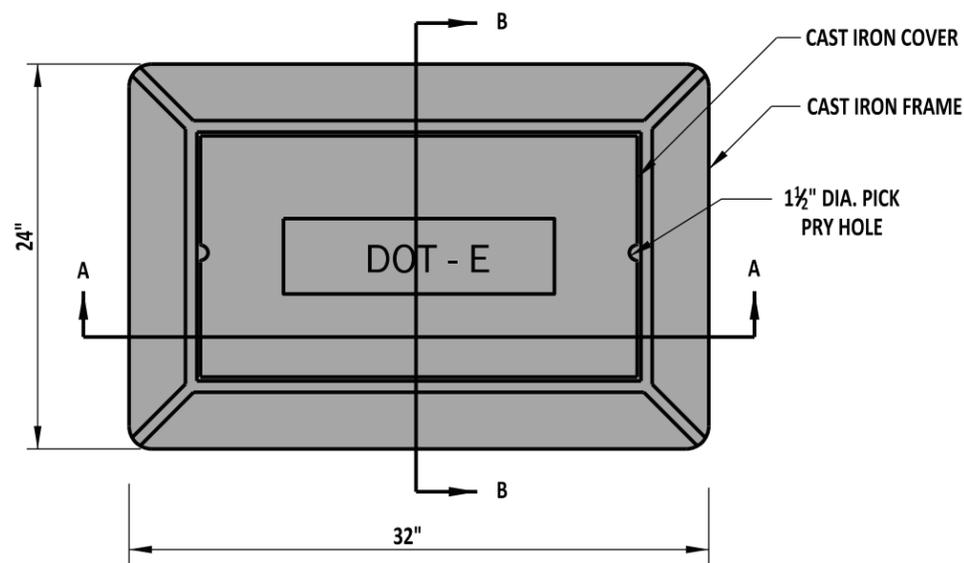
SIGNATURE ON FILE
CHIEF ENGINEER

12/22/2011
DATE

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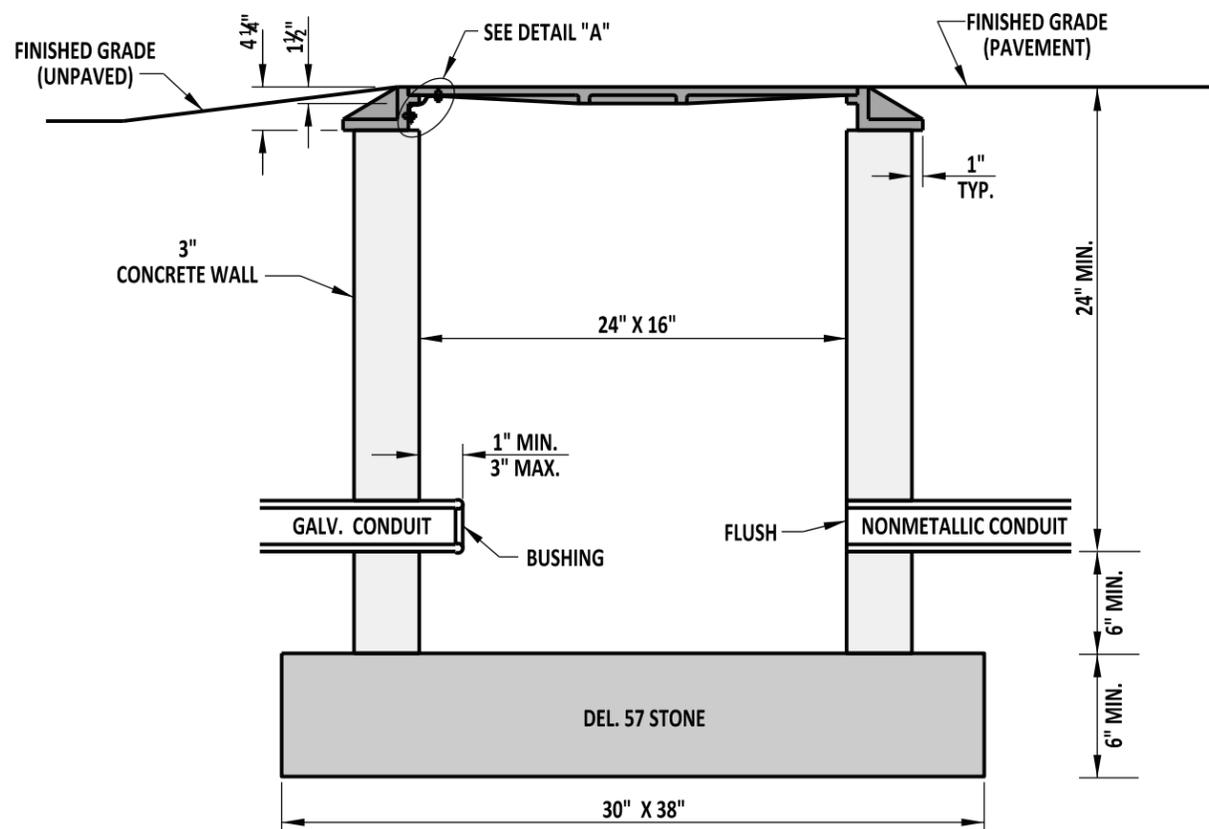
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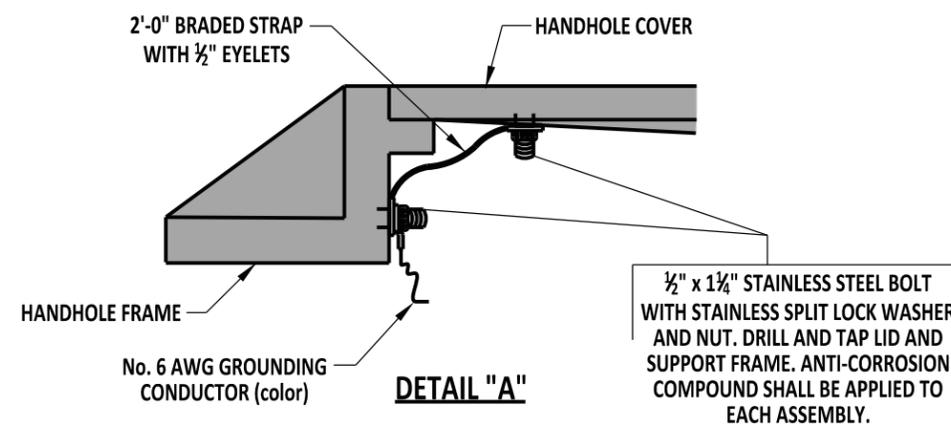
PLAN VIEW

NOTES:

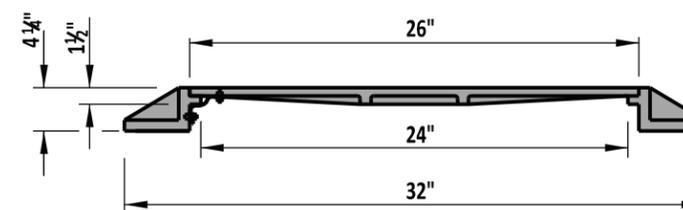
- 1). TYPE 5 CONDUIT JUNCTION WELL SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
- 2). ALL CONDUIT JUNCTION WELLS CONSTRUCTED SHALL BE WITHIN CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM CONDUIT JUNCTION WELL.
- 3). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.



SECTION B-B



DETAIL "A"



SECTION A-A



DELAWARE
DEPARTMENT OF TRANSPORTATION

CONDUIT JUNCTION WELL, TYPE 5

STANDARD NO.

T-1 (2011)

SHT. 3

OF 3

APPROVED

SIGNATURE ON FILE
CHIEF ENGINEER

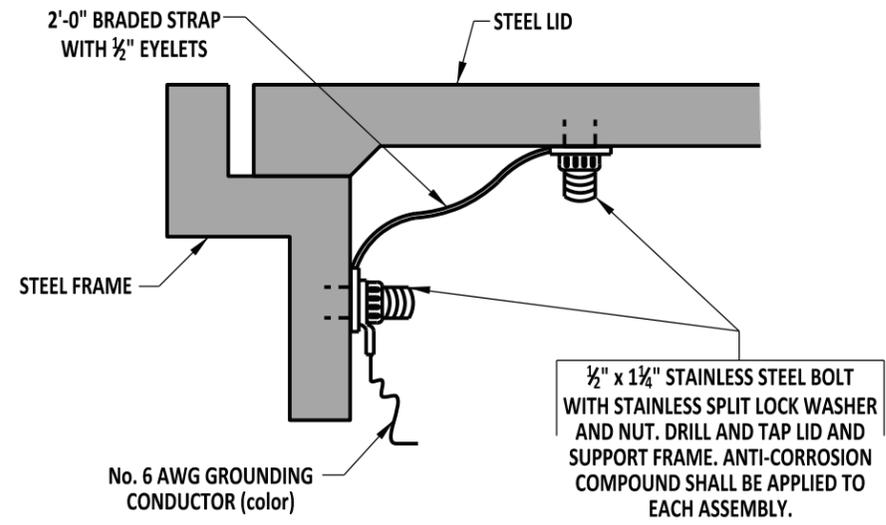
12/22/2011
DATE

RECOMMENDED

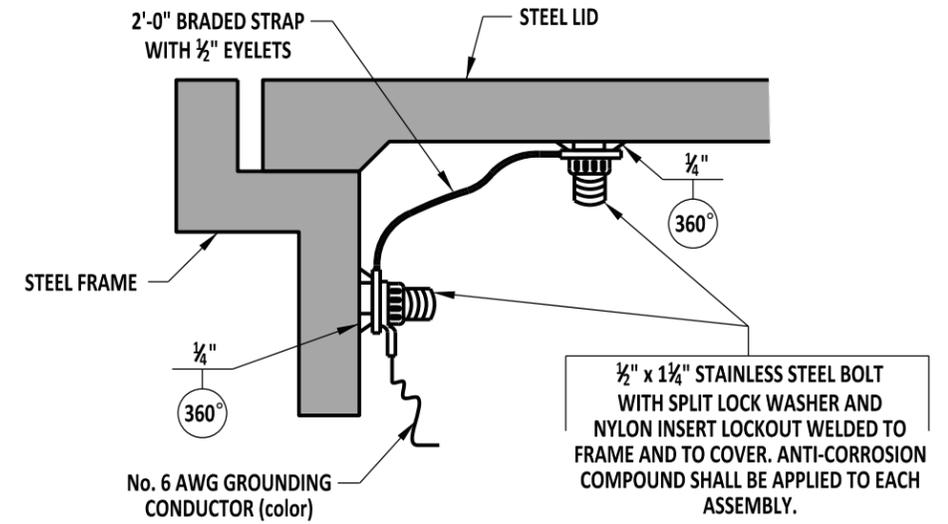
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12/21/2011
DATE

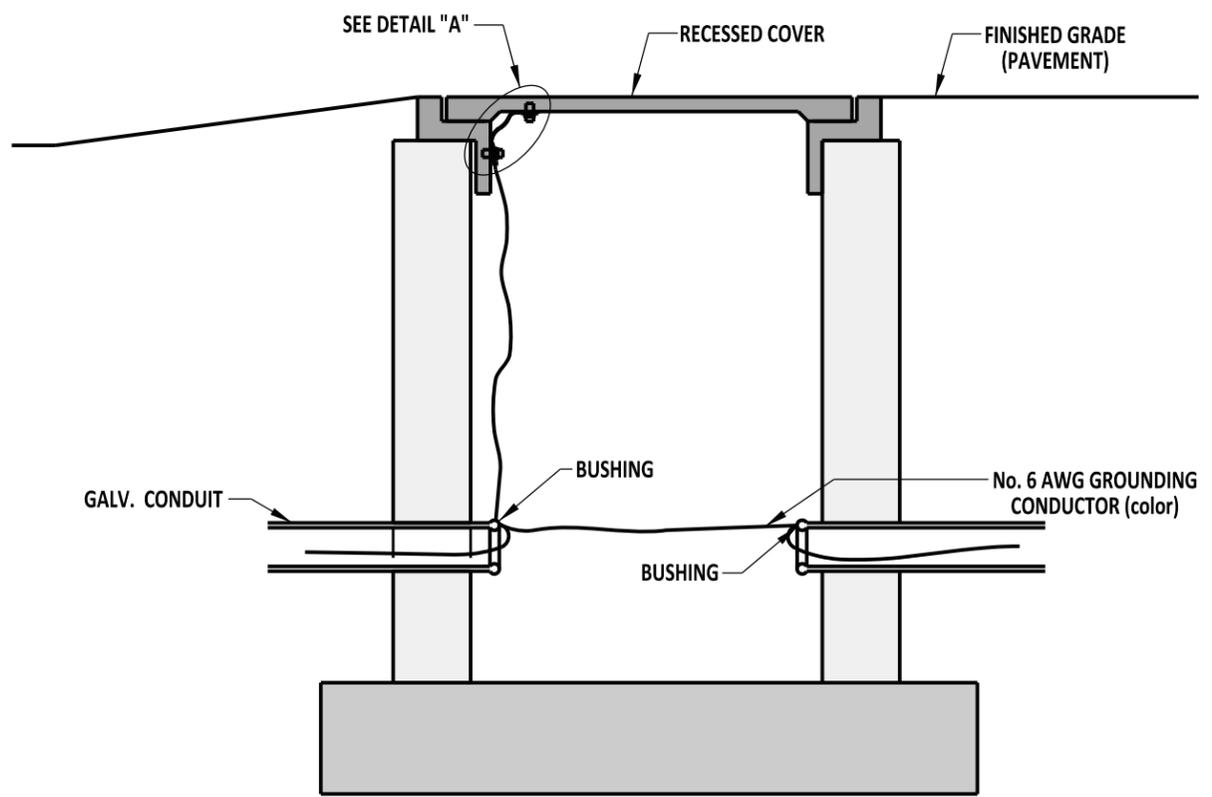
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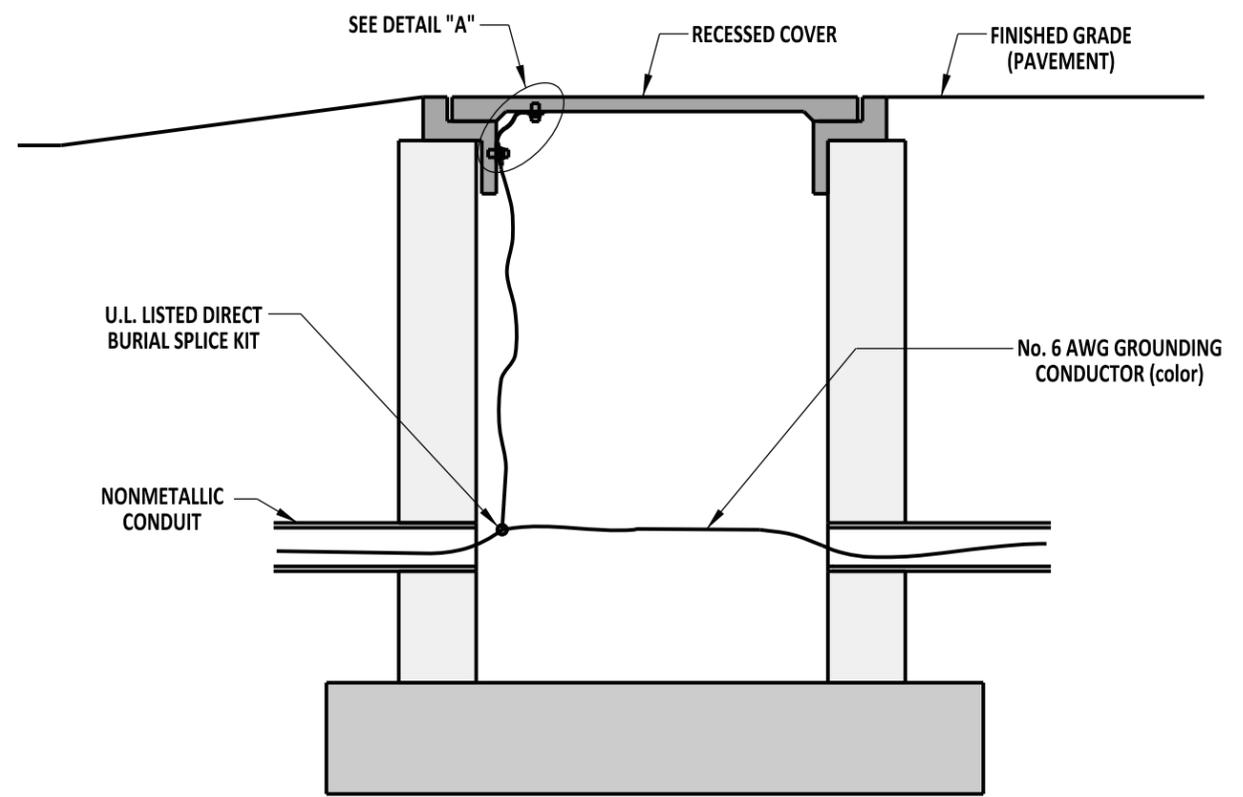
DETAIL "A"



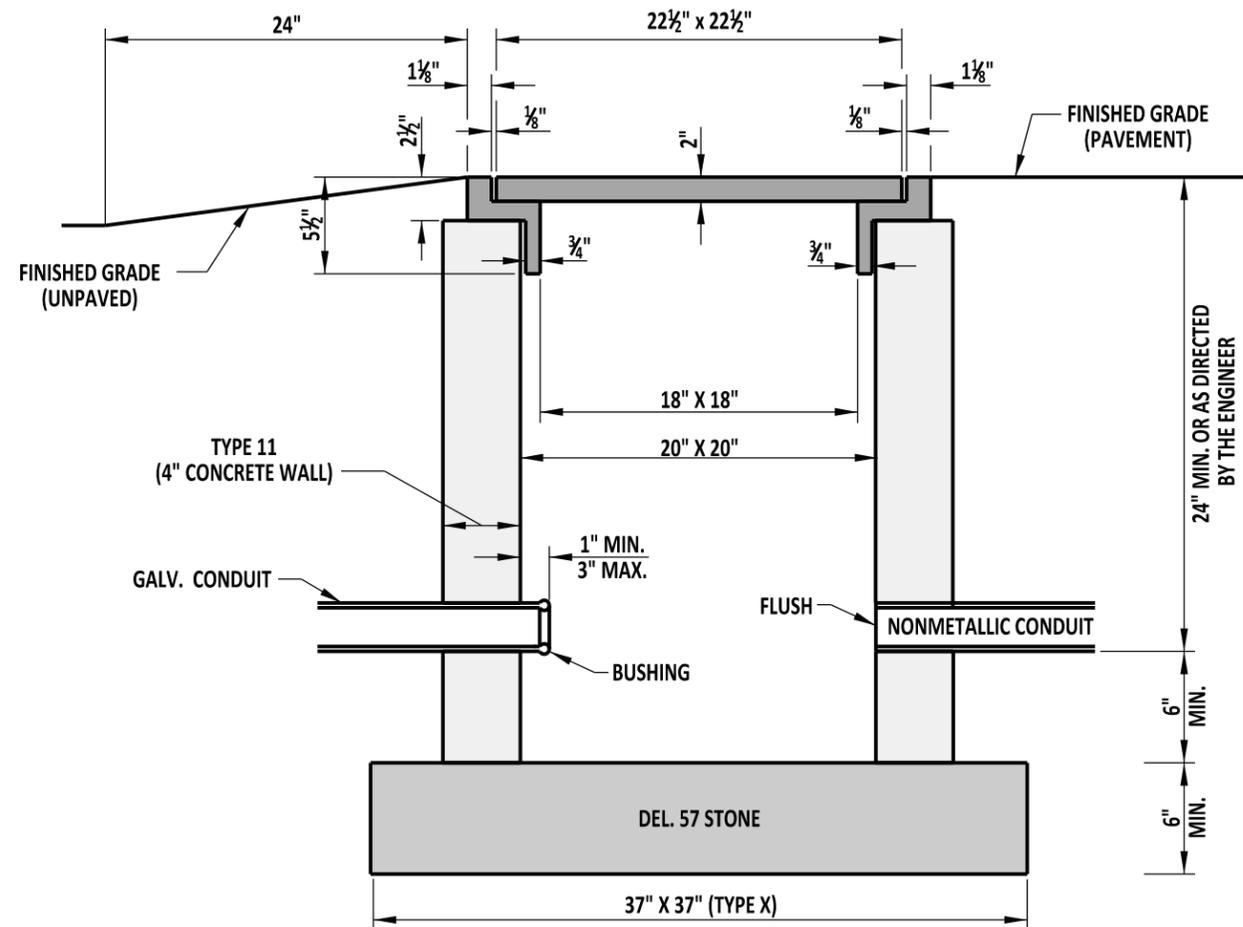
BONDING AN EXISTING JUNCTION WELL COVER & FRAME



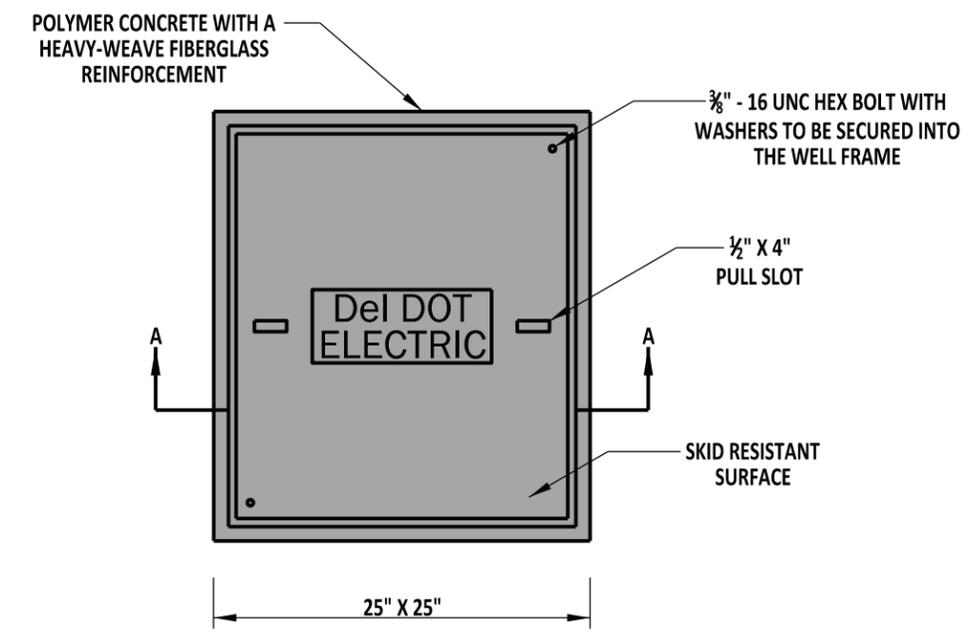
JUNCTION WELL BONDING GALVANIZED TO GALVANIZED



JUNCTION WELL BONDING NONMETALLIC CONDUIT

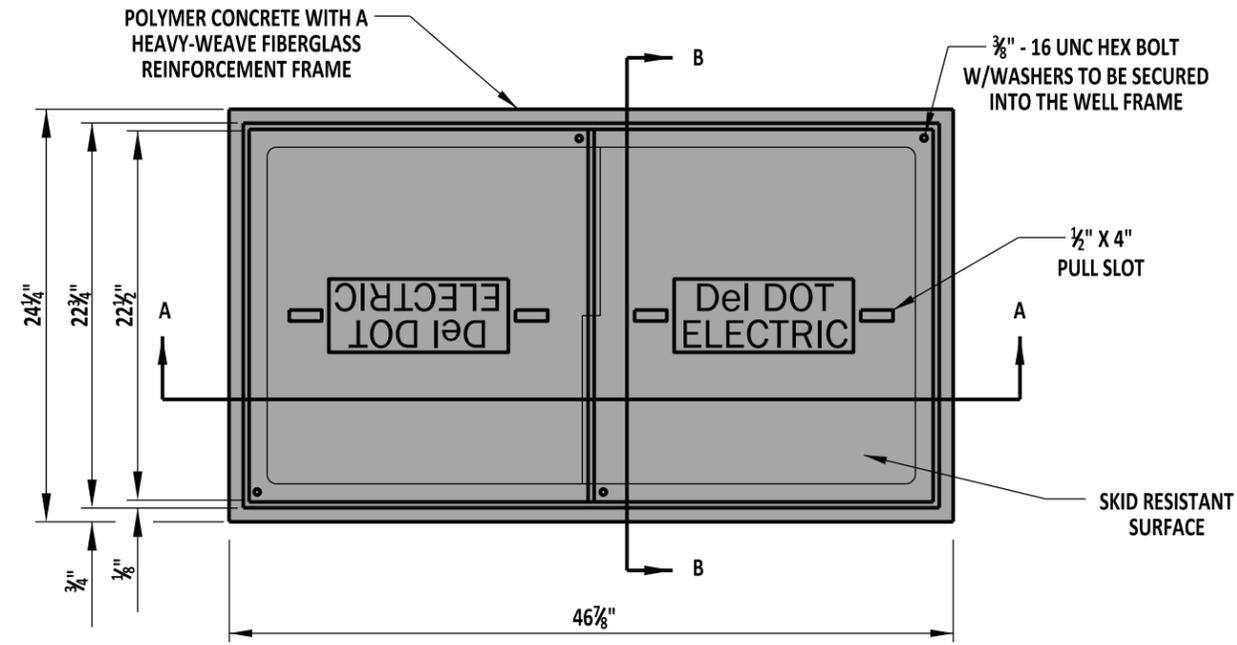


SECTION A-A



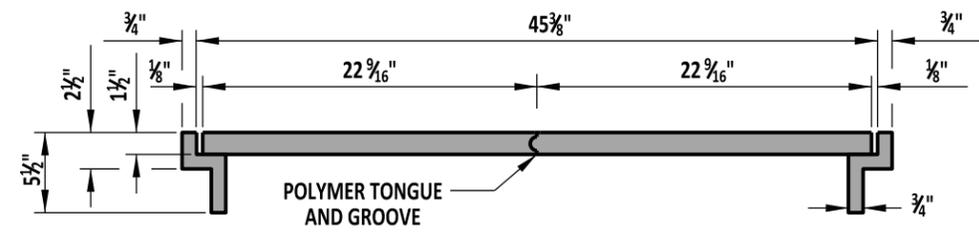
PLAN VIEW

- NOTES:**
- 1). TYPE 11 CONDUIT JUNCTION WELL LID SHALL BE PRECAST POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS FRAME. INSTALLED ON A PRECAST CONCRETE WELL.
 - 2). TYPE 11 CONDUIT JUNCTION WELL BODY SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
 - 3). TYPE 11 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
 - 4). ALL CRACKS, GAPS, OR OPENING IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.

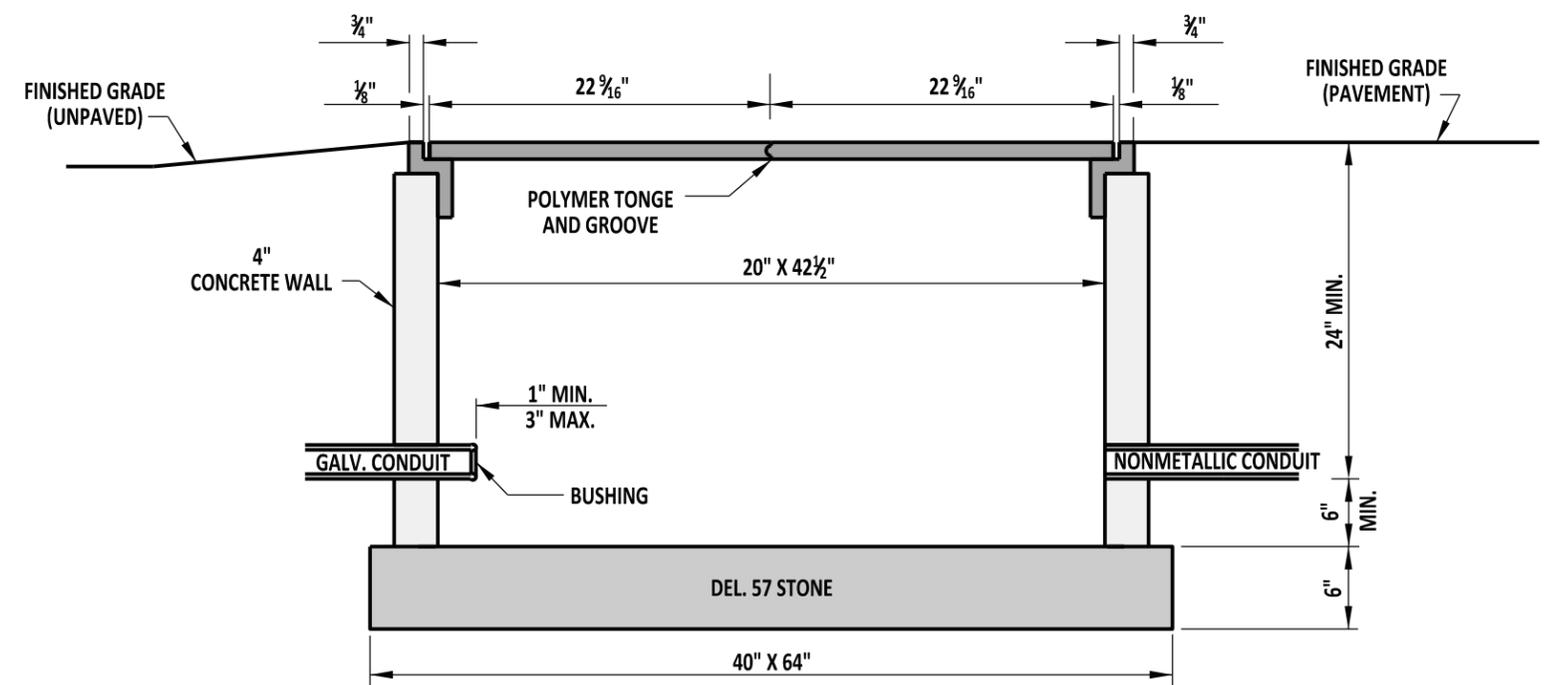


PLAN VIEW

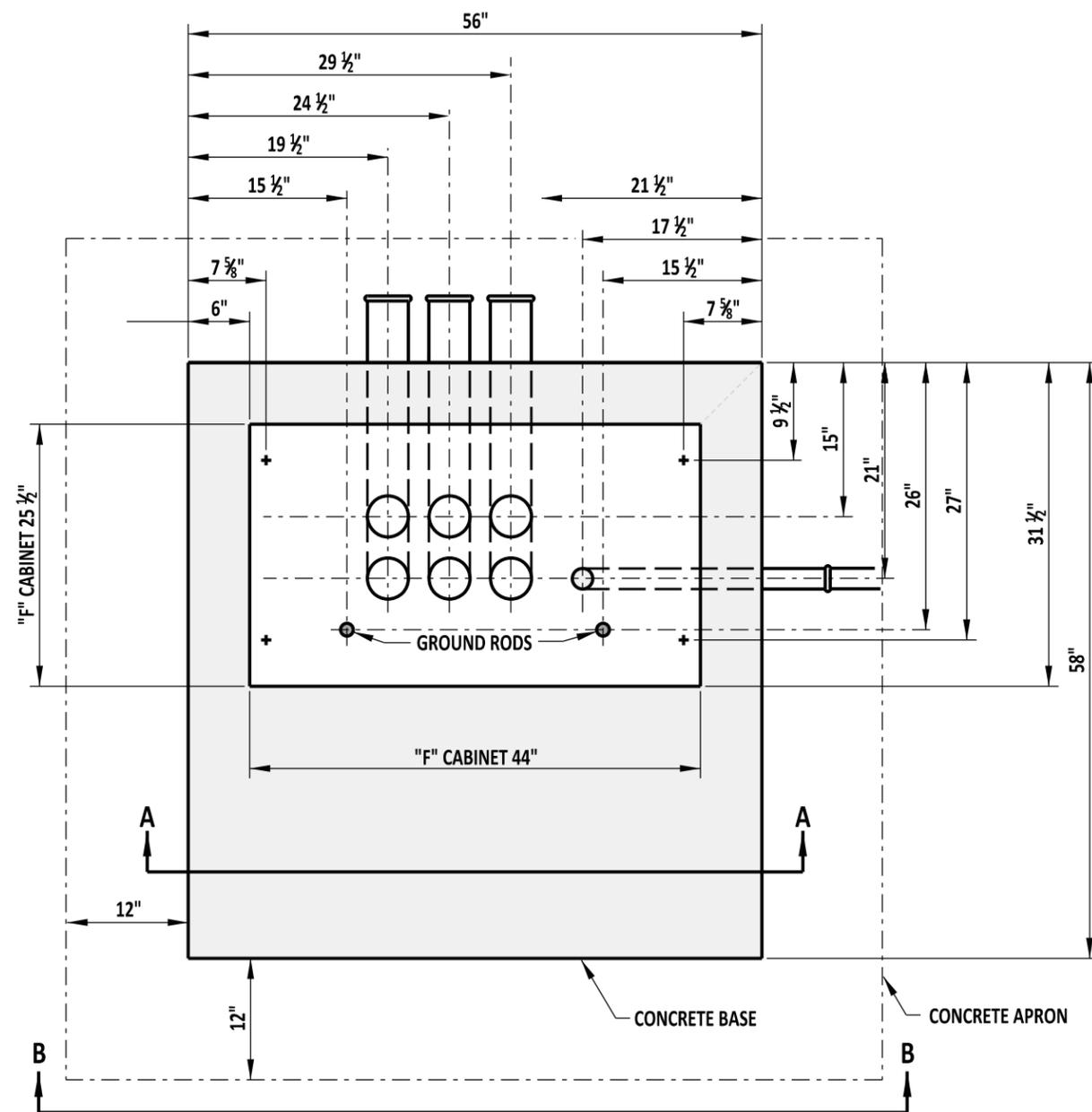
- NOTES:**
- 1). TYPE 14 CONDUIT JUNCTION WELL LID SHALL BE PRECAST POLYMER CONCRETE WITH A HEAVY-WEAVE FIBERGLASS FRAME. INSTALLED ON A PRECAST CONCRETE WELL.
 - 2). TYPE 14 CONDUIT JUNCTION WELL BODY SHALL BE PRECAST CONCRETE. AT LEAST ONE HOLE IN PRECAST WELLS WILL BE OF A 5" DIAMETER COMPLETELY THROUGH THE WALL. UNUSED HOLES SHALL BE PLUGGED.
 - 3). TYPE 14 CONDUIT JUNCTION WELLS SHALL BE CONSTRUCTED FLUSH WITH THE SURFACE OF THE SAME. INSTALLATION IN UNPAVED AREAS WILL BE CONSTRUCTED ABOVE GRADE AND GRADED TO DRAIN AWAY FROM THE CONDUIT JUNCTION WELL.
 - 4). ALL CRACKS, GAPS, OR OPENINGS IN JUNCTION WELL WALL SHALL BE SEALED WITH CONCRETE.



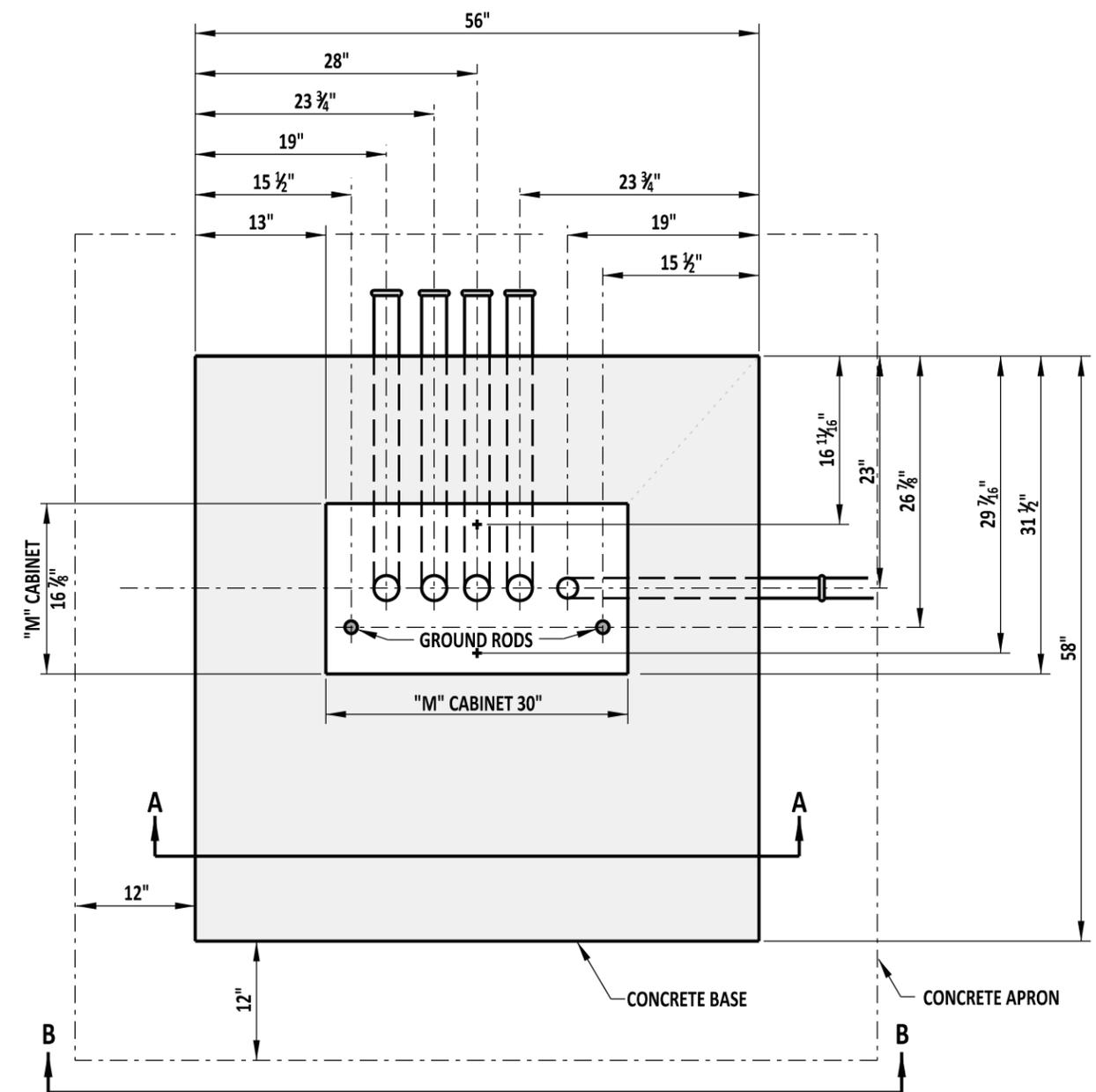
SECTION A-A



SECTION B-B



**"F" CABINET
PLAN VIEW**



**"M" CABINET
PLAN VIEW**

NOTE:

CONCRETE APRON IS REQUIRED ONLY WHEN CABINET BASE IS INSTALLED IN EARTH AREAS OR AS DIRECTED ON PLAN.



**DELAWARE
DEPARTMENT OF TRANSPORTATION**

CABINET BASES, TYPES M & F

STANDARD NO. T-4 (2011)

SHT. 1 OF 2

APPROVED

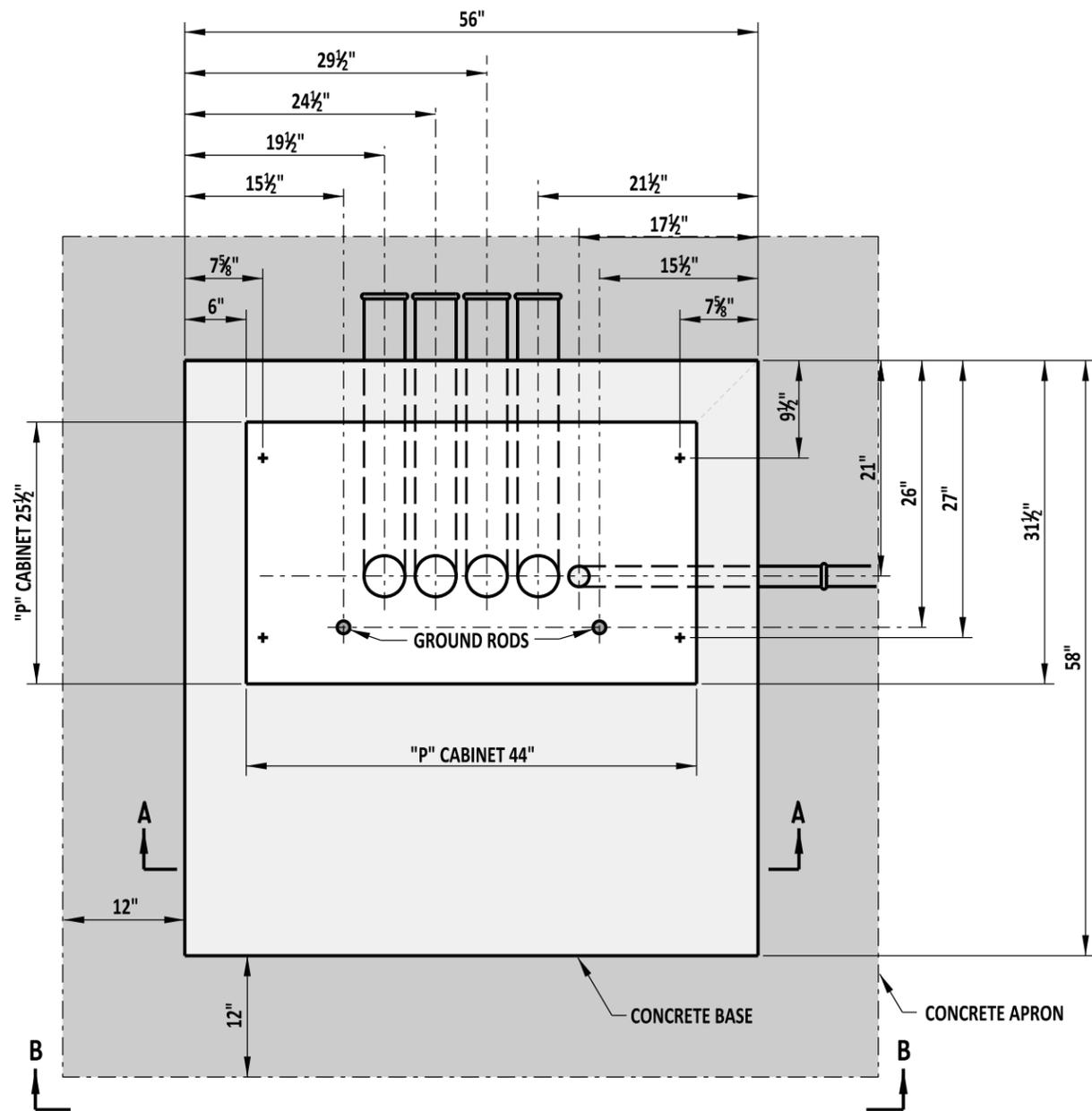
SIGNATURE ON FILE
CHIEF ENGINEER

12/22/2011
DATE

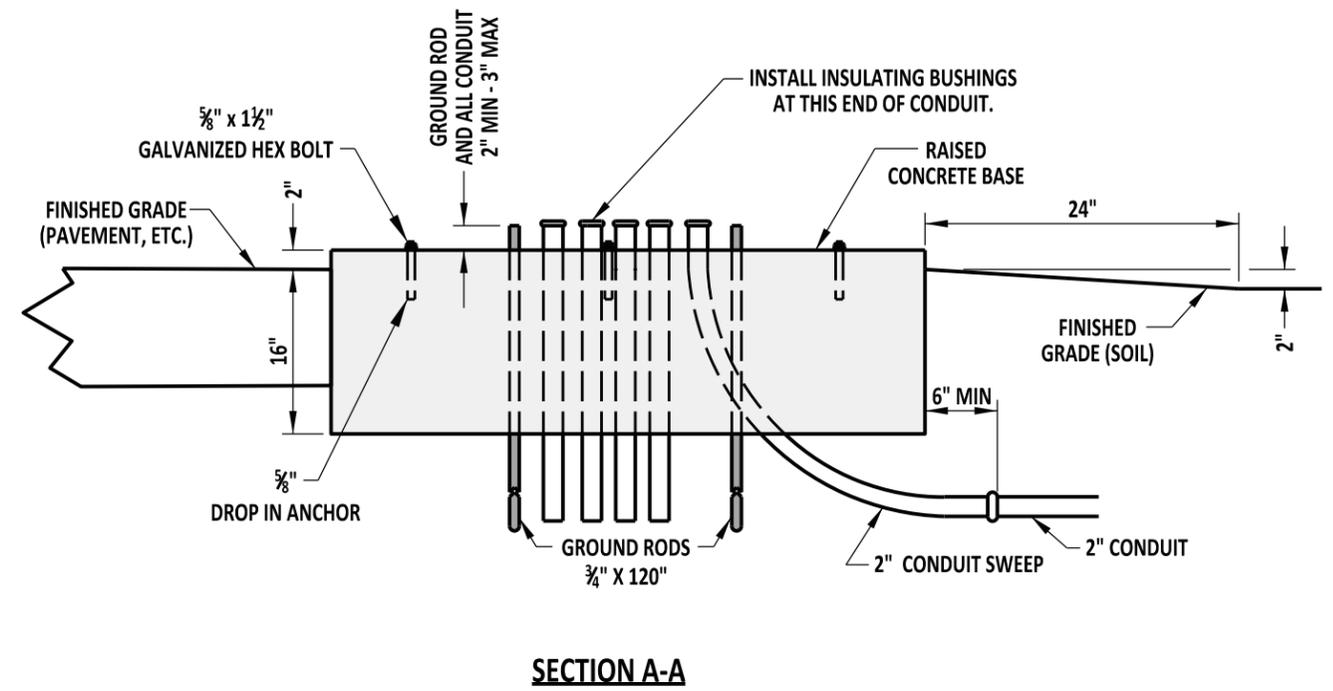
RECOMMENDED

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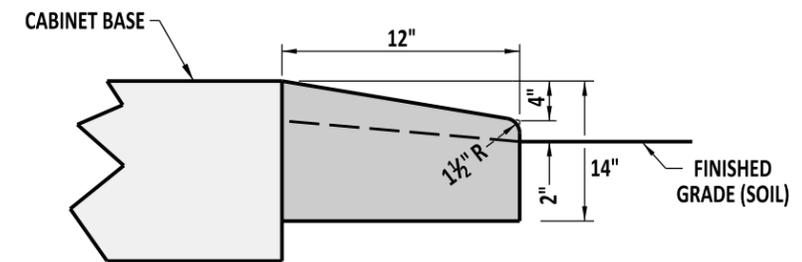
12/21/2011
DATE



**"P" & "R" CABINETS
PLAN VIEW**



SECTION A-A



SECTION B-B

NOTE:
CONCRETE APRON IS REQUIRED ONLY WHEN CABINET BASES IS INSTALLED IN EARTH AREAS OR AS DIRECTED ON PLAN.



**DELAWARE
DEPARTMENT OF TRANSPORTATION**

CABINET BASES, TYPES P & R

STANDARD NO. T-4 (2011)

SHT. 2 OF 2

APPROVED

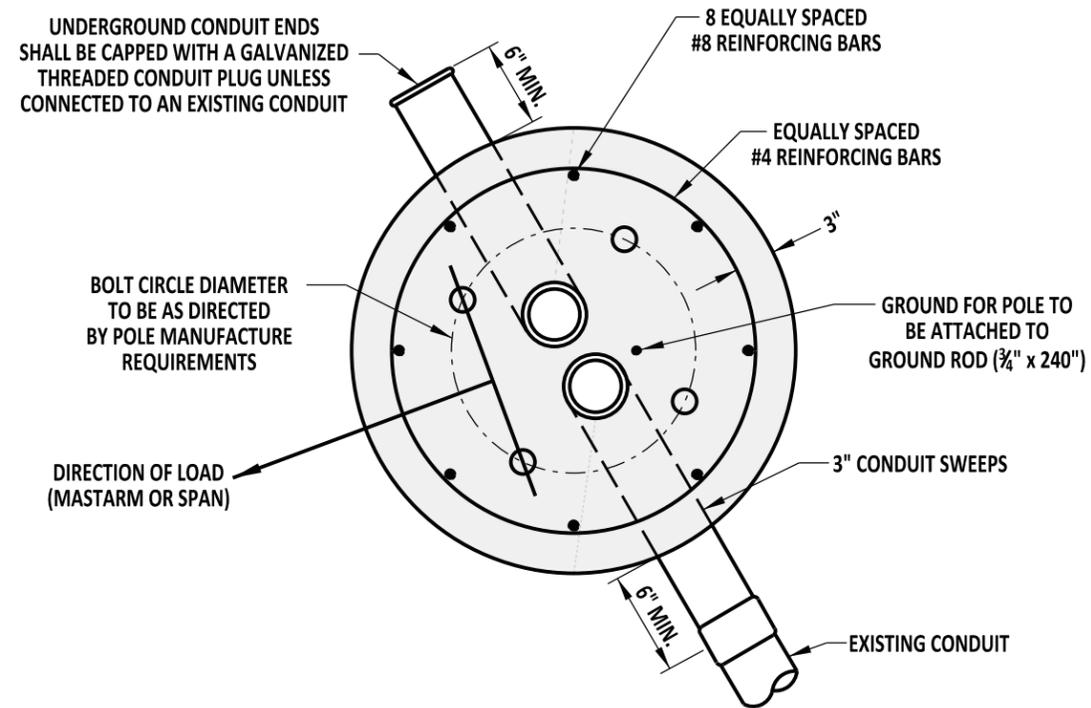
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12/22/2011
DATE

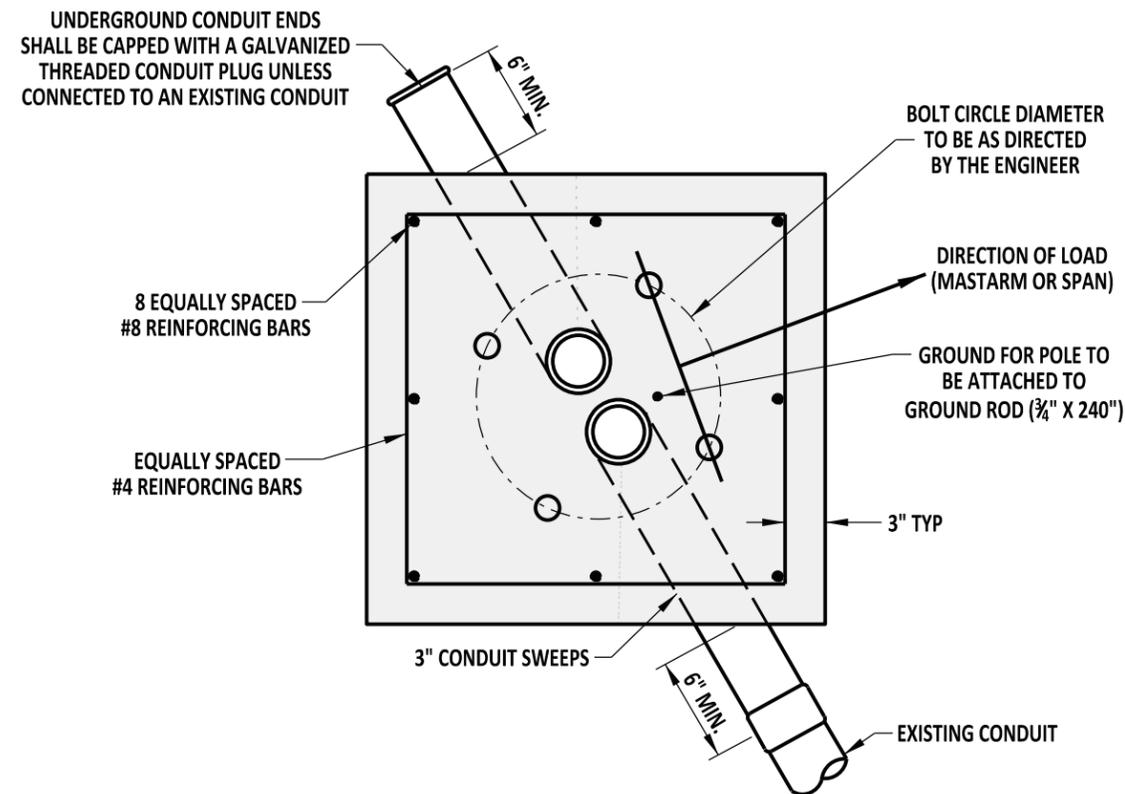
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ROUND BASE

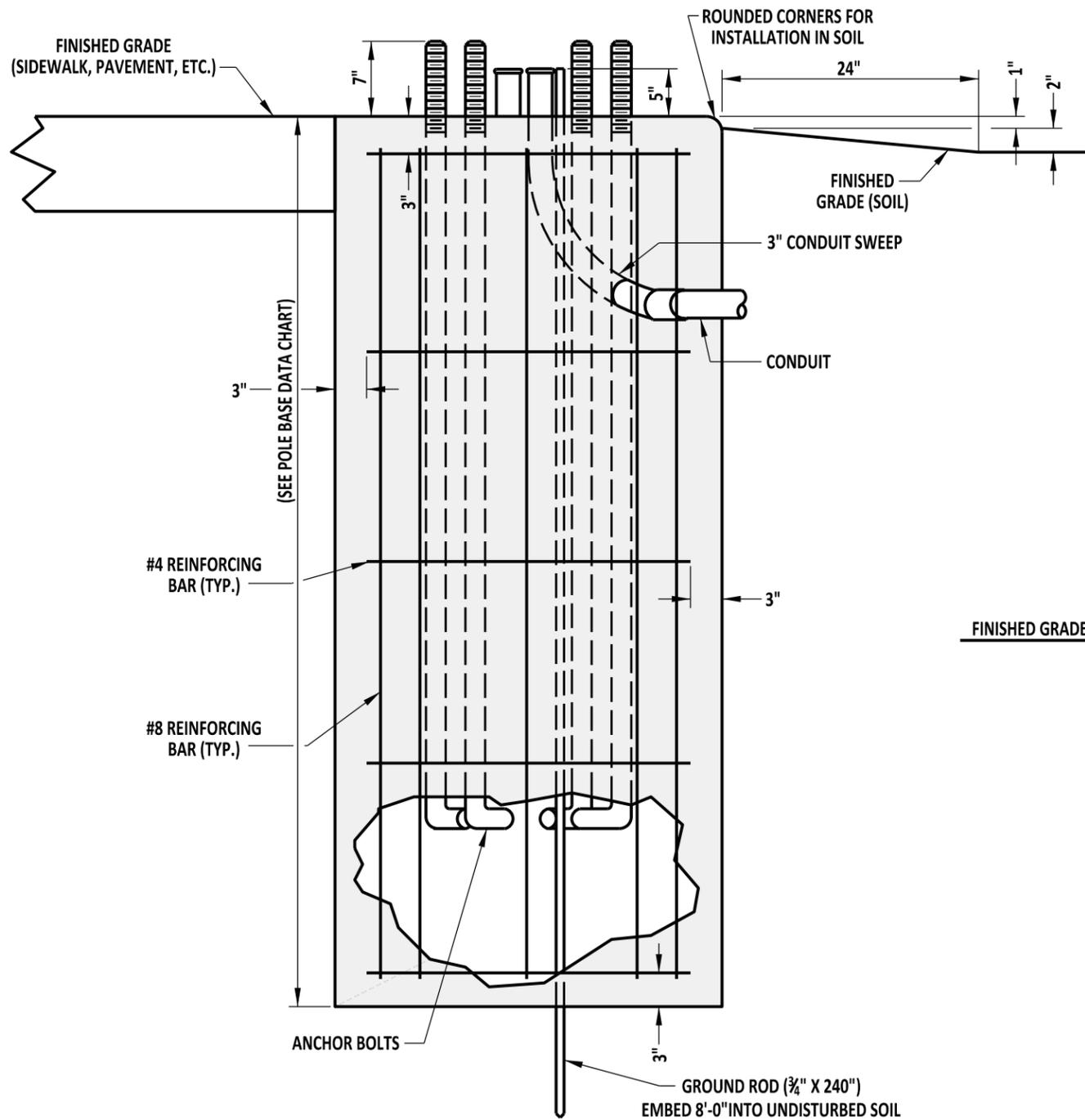


SQUARE BASE



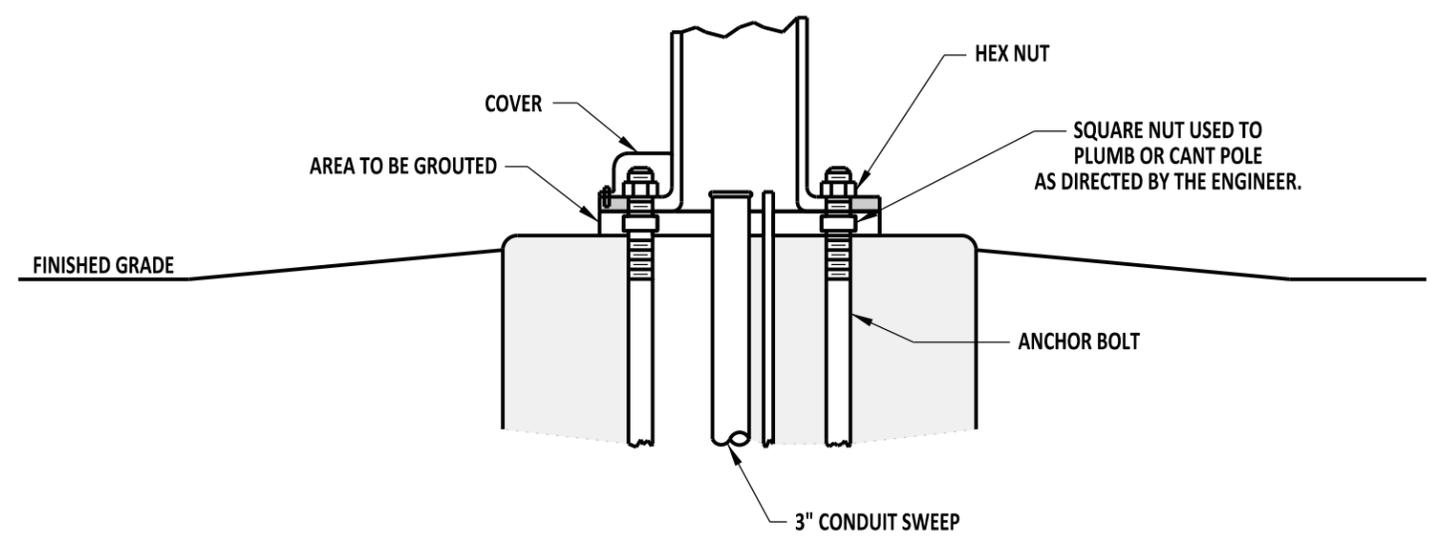
DELAWARE
DEPARTMENT OF TRANSPORTATION

STANDARD NO. T-5 (2011)		SHT. 1 OF 4		APPROVED		SIGNATURE ON FILE	12/22/2011
				RECOMMENDED		CHIEF ENGINEER	DATE
						SIGNATURE ON FILE	12/21/2011
						DESIGN ENGINEER	DATE



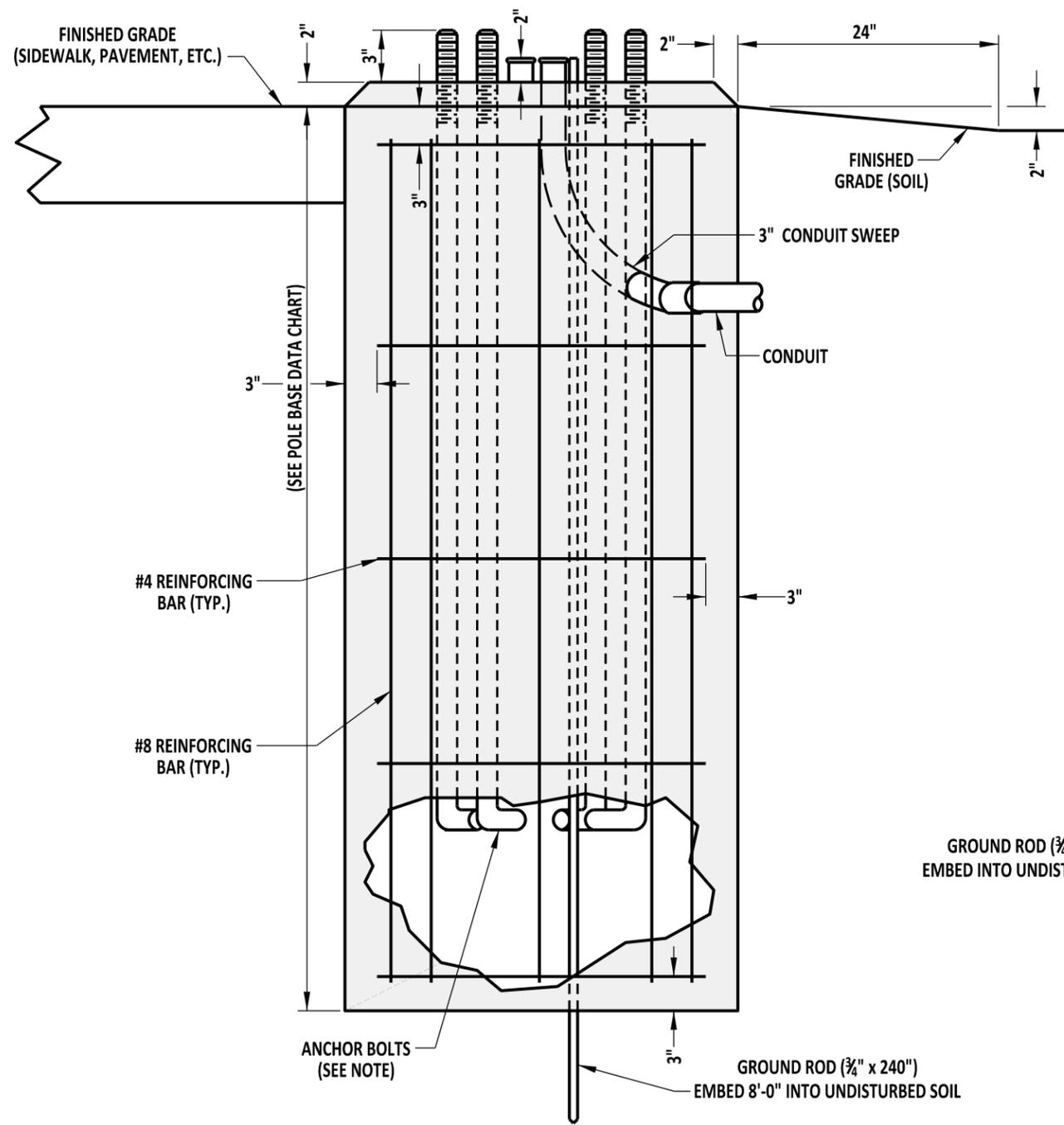
TYPICAL SECTION (BASES 1,2,2A,2B,3,3A,3B, AND 7)

- NOTES:**
- 1.) ANCHOR BOLTS AND BOLT PATTERN TO BE PROVIDED BY DELDOT'S SIGNAL CONSTRUCTION INSPECTOR UNLESS OTHERWISE DENOTED.
 - 2.) ANCHOR BOLTS AND BOLT PATTERN FOR TYPE 7 POLE BASES TO BE PROVIDED BY THE MANUFACTURE.



TYPICAL INSTALLATION (BASES 1,2,2A,2B,3,3A,3B, AND 7)

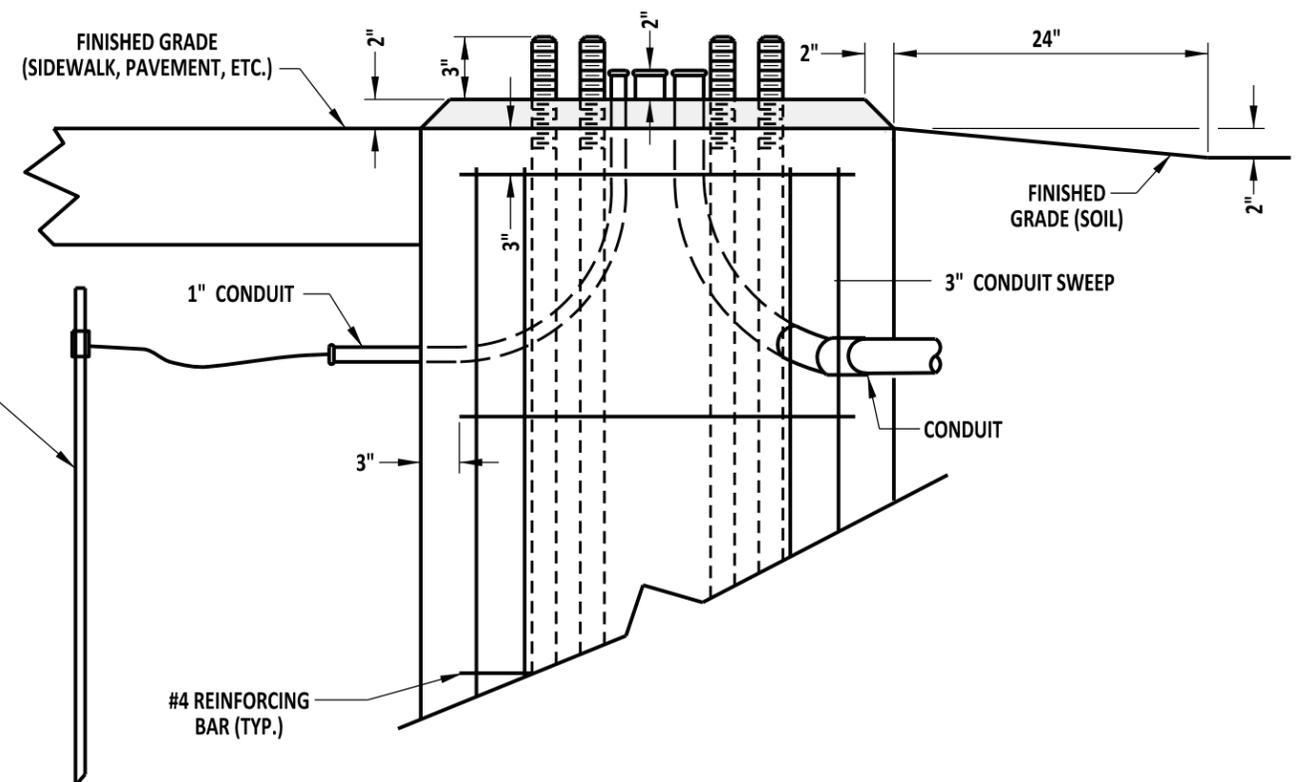
- NOTES:**
- 1). PLACE 2 EACH 6" LONG x 1/2" DIA. P.V.C., SCHEDULE 40 (TYP) VENTS IN THE GROUT AS DIRECTED IN THE FIELD BY ENGINEER.
 - 2). SEE POLE BASE DATA CHART FOR POLE BASE DIMENSIONS.



TYPICAL SECTION (BASES 5 AND 6)

NOTE:
ANCHOR BOLTS AND BOLT PATTERN FOR TYPE 5 & 6 POLE BASES TO BE PROVIDED BY THE MANUFACTURE.

POLE BASE DATA CHART					
POLE BASE TYPE #	DIAMETER	DEPTH	#4 HORIZONTAL REINFORCING BARS	#8 VERTICAL REINFORCING BARS	CONDUITS
1	36"	7'-0"	5	8	2 - 3"
2	36"	10'-0"	6	8	2 - 3"
2A	48"	8'-0"	5	8	2 - 3"
2B	60"	7'-0"	5	8	2 - 3"
3	48"	10'-0"	6	8	2 - 3"
3A	60"	9'-0"	6	8	2 - 3"
3B	72"	7'-0"	5	8	2 - 3"
4	24"	2'-4"	NONE	NONE	2 - 2.5"
5	36"	4'-0"	NONE	NONE	2 - 3"
6	24"	6'-0"	4	8	2 - 3"
*7	48"	13'-4"	7	8	1 - 1", 2 - 3"



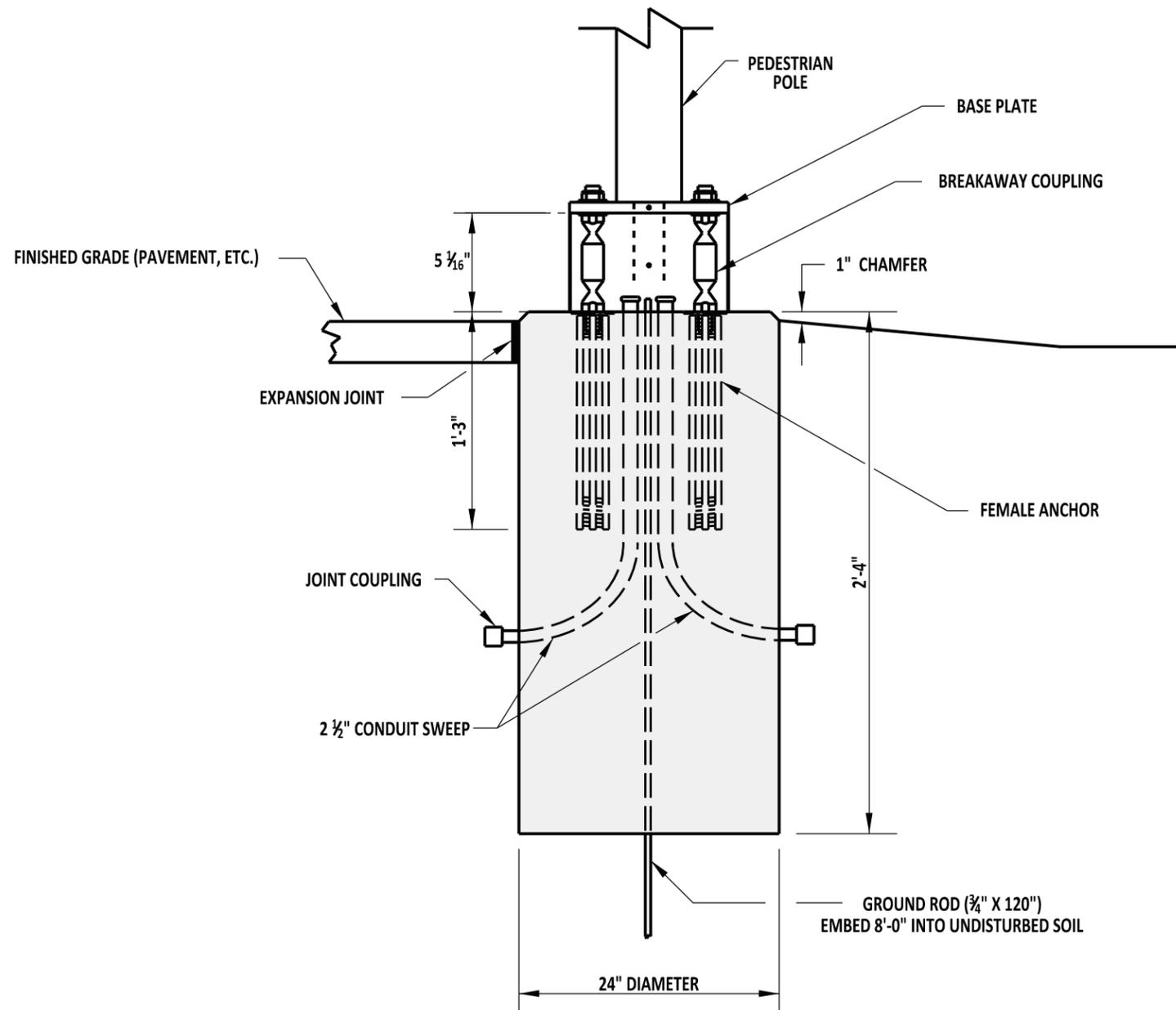
TYPE 7 GROUND ROD TYPICAL

NOTE:
ANCHOR BOLTS AND BOLT PATTERN FOR TYPE 7 POLE BASES TO BE PROVIDED BY THE MANUFACTURE.

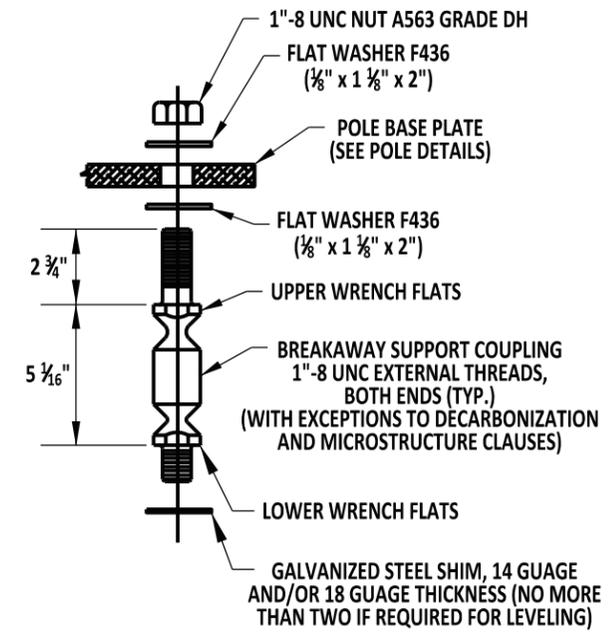


DELAWARE
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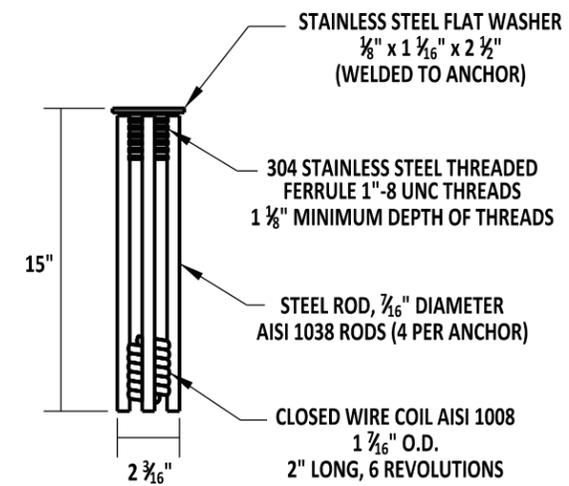
POLE BASES				APPROVED	SIGNATURE ON FILE <small>CHIEF ENGINEER</small>	01/17/2012 <small>DATE</small>
STANDARD NO.	T-5 (2011)	SHT.	3 OF 4	RECOMMENDED	SIGNATURE ON FILE <small>DESIGN ENGINEER</small>	01/17/2012 <small>DATE</small>



TYPICAL SECTION (BASE 4)



BREAKAWAY COUPLING DETAIL



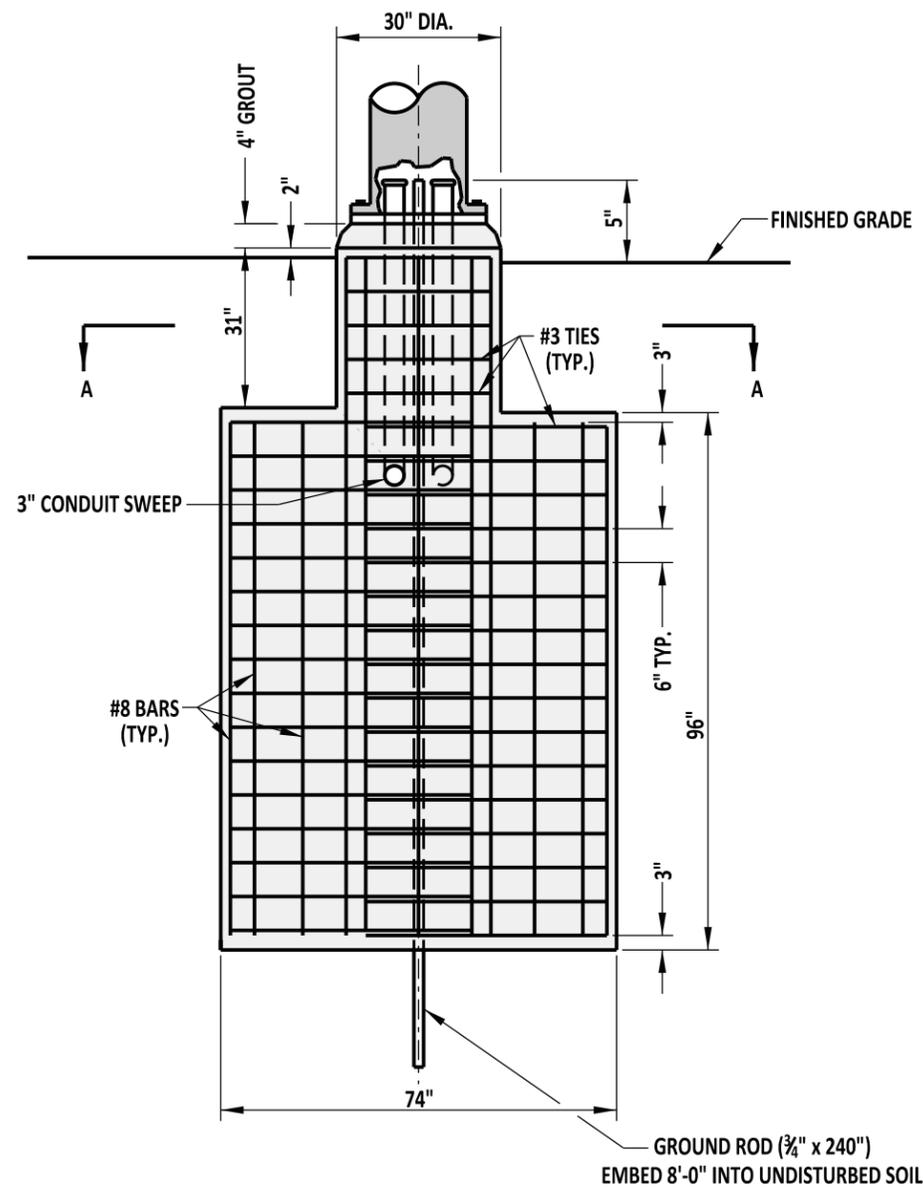
ANCHOR DETAIL

NOTES:
ANCHOR BOLTS AND BOLT PATTERN TO BE PROVIDED BY DELDOT'S SIGNAL CONSTRUCTION INSPECTOR.

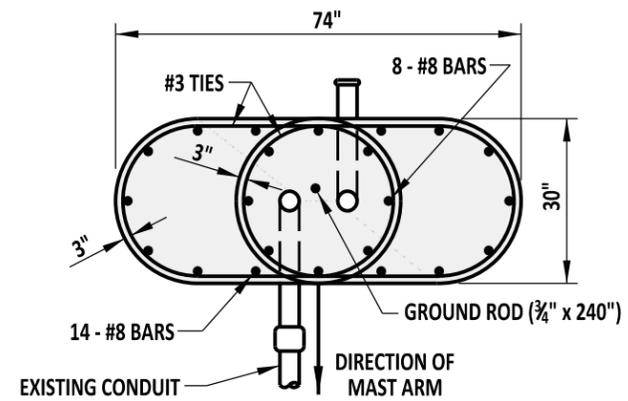


DELAWARE
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		POLE BASES		APPROVED	SIGNATURE ON FILE <small>CHIEF ENGINEER</small>	12/22/2011 <small>DATE</small>
STANDARD NO.	T-5 (2011)	SHT.	4	OF	4	RECOMMENDED
				SIGNATURE ON FILE <small>DESIGN ENGINEER</small>	12/21/2011 <small>DATE</small>	



FOUNDATION DETAILS



SECTION A-A

NOTES:

- 1). UNDERGROUND CONDUIT ENDS SHALL BE CAPPED WITH A GALVANIZED THREADED CONDUIT PLUG UNLESS CONNECTED TO AN EXISTING CONDUIT.
- 2). PLACE 2 EACH 6" x 1/2" P.V.C., SCHEDULE 40 (TYP) VENTS IN THE GROUT AS DIRECTED IN THE FIELD BY THE ENGINEER.



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SPECIAL POLE BASE

STANDARD NO. T-6 (2011)

SHT. 1 OF 1

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