2014 STANDARD CONSTRUCTION DETAILS REVISION REVIEW

FEBRUARY 19, 2015

WINTER WORKSHOP

2014 STANDARD CONSTRUCTION DETAILS

General Changes

- Changing notes to “Active Voice” to match Standard Specifications update
- Continuing to remove metric dimensions
- New Details
  - Detail C-6 – Curb Retaining Wall
  - Detail M-10, All Sheets – Bridge Safety Fence

2014 STANDARD CONSTRUCTION DETAILS

General Changes Cont'd

- Erosion Section
  - Renumbered most sheets
  - New Details
    - Detail E-1 – Concrete Washout
    - Detail E-5 – Inlet Sediment Control, Culvert Inlet
    - Detail E-21 – Stone Outlet Detail
  - Removed Details
    - Detail E-7 – Sediment Trap, using Drainage Inlet as Outlet
    - Detail E-8, All Sheets – Riser Pipe Assembly for Sediment Trap
    - Detail E-10 – Riprap Ditch
    - Detail E-11 – Temporary Swale
    - Detail E-12 – Perimeter Dike/Swale
    - Detail E-13 – Earth Dike
    - Detail E-17 – Dewatering Basin
    - Detail E-23, Sheet 2 – Staked Turbidity Curtain

2014 STANDARD CONSTRUCTION DETAILS

Detail D-R – Drainage Inlet Reference Sheet

INLET BOX SIZE		DRAINAGE INLET TOP UNIT	INLET TOP UNIT BAR BENDING DIAGRAM	FRAME & GRATE (FOUND ON DETAIL D-5, SHEET 2) SEE NOTE 6
L	W			
17⅝"	11⅝"	TYPE 5 (FRAME & GRATE COMBO)	N/A	TYPE 5 (FRAME & GRATE COMBO)
24"	24"	TYPE 6 (FRAME & GRATE COMBO)	N/A	TYPE 6 (FRAME & GRATE COMBO)
34"	18"	TYPES A, C, D, & E (DETAIL D-5, SHEET 7)	S504 (DETAIL D-5, SHEET 7)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
34"	24"	TYPES A, B, C, D, E, & S (SEE NOTE 4)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
48"	30"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
48"	48"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
66"	30"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
66"	48"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
66"	66"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
72"	24"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
72"	48"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME
72"	72"	TYPES A, B, C, D, E & S (SEE NOTE 5)	S501 (SEE NOTE 5)	TYPES 1 THRU 4 AND 7 GRATE STANDARD DRAINAGE INLET FRAME

NTS

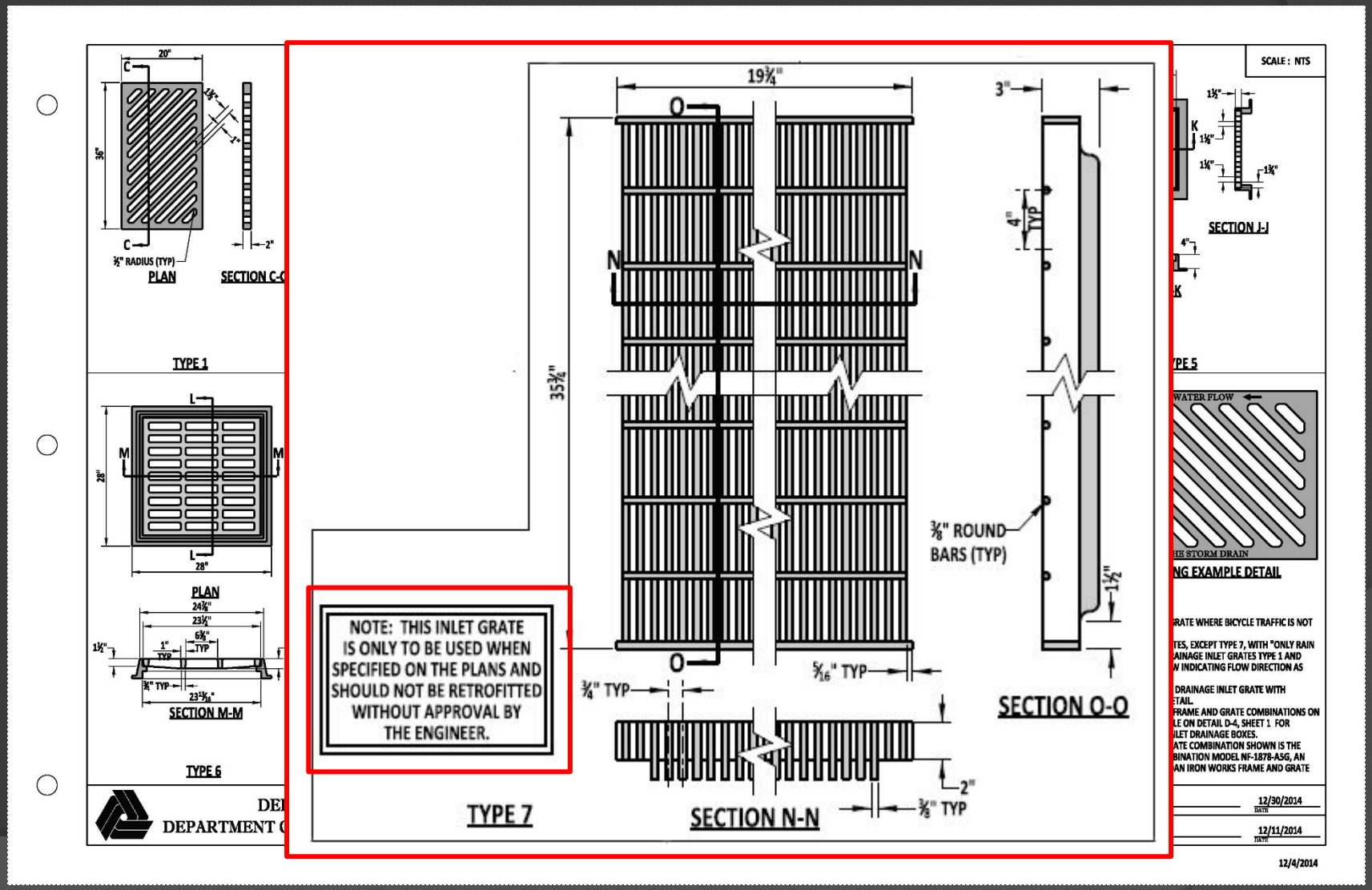
4). FOR A 34" X 24" DRAINAGE INLET, SEE DETAIL D-5, SHEET 6 FOR INLET TOP UNIT TYPES A, B, C, D, & E. FOR INLET TOP UNIT TYPE S, SEE DETAIL D-5, SHEET 8.
5). FOR MORE INFORMATION ON DRAINAGE INLET TOP UNIT TYPES A, B, C, D, & E SEE DETAIL D-5, SHEET 3 AND FOR DRAINAGE INLET TOP UNIT, TYPE S, SEE DETAIL D-5, SHEET 8.
6). ONLY USE THE TYPE 7 DRAINAGE INLET GRATE WHEN SPECIFIED ON THE PLANS OR AFTER APPROVAL BY THE ENGINEER.

DEPARTMEN

12/30/2014 DATE
12/11/2014 DATE
11/19/2014

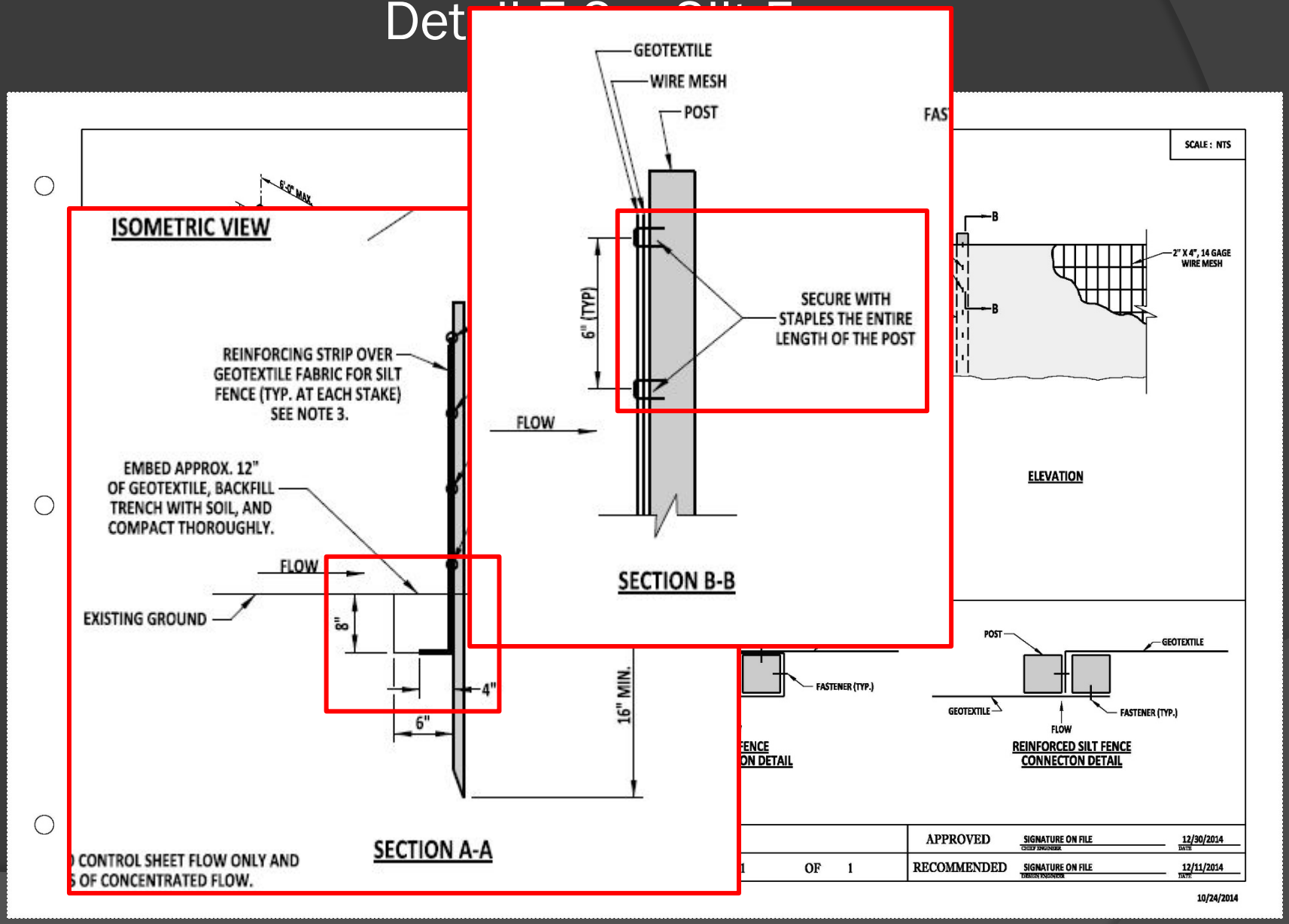
2014 STANDARD CONSTRUCTION DETAILS

Detail D5, Sheet 2 – Drainage Inlet Frame and Grates



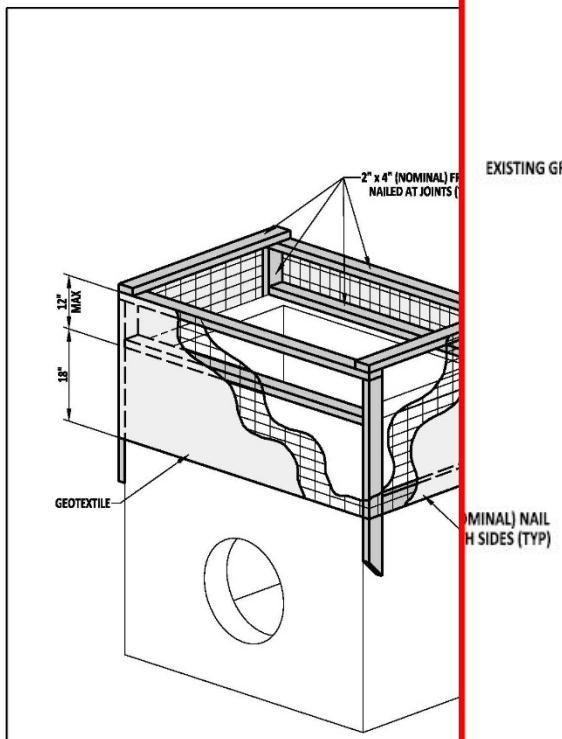
2014 STANDARD CONSTRUCTION DETAILS

Det

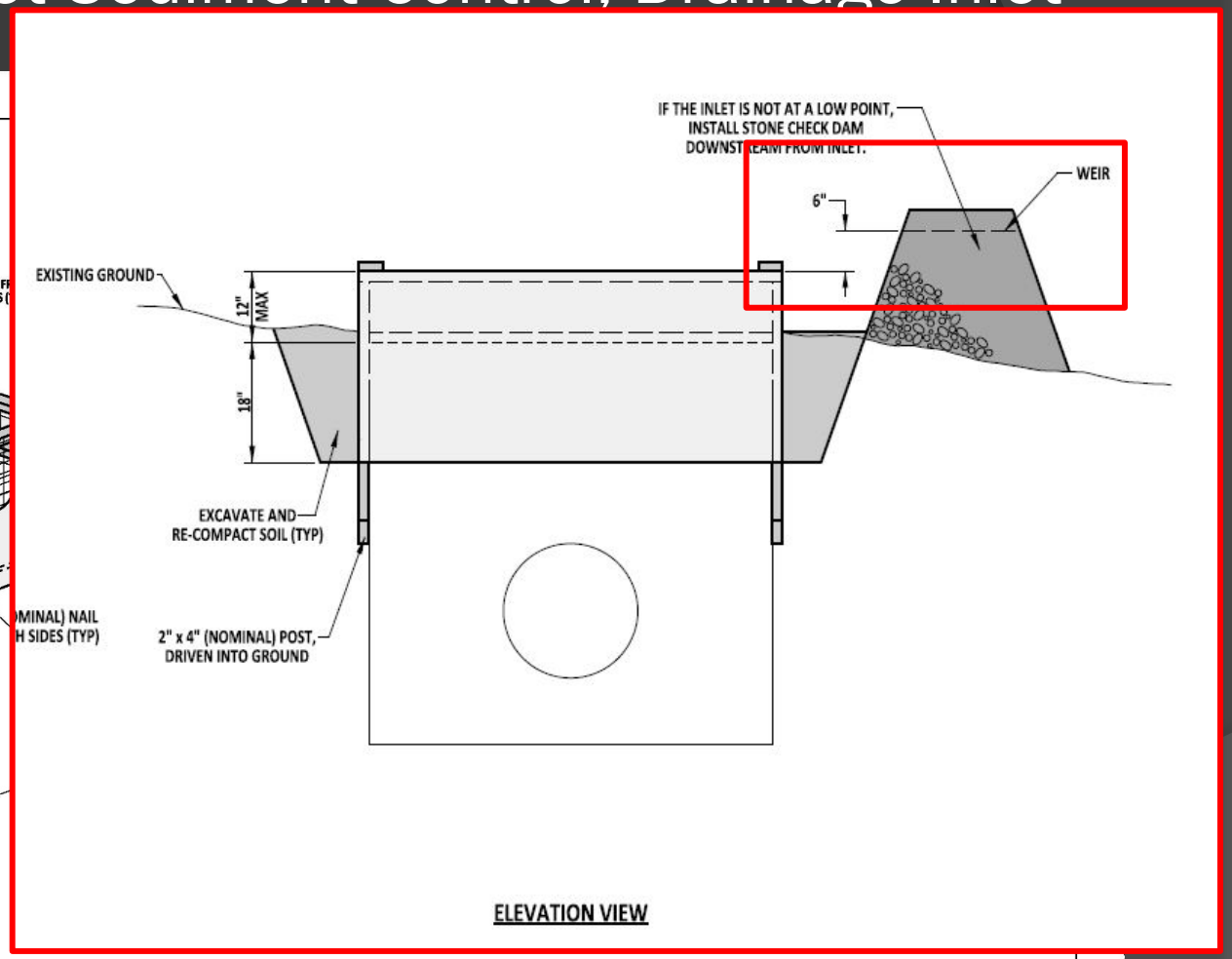


2014 STANDARD CONSTRUCTION DETAILS

Detail E-4 – Inlet Sediment Control, Drainage Inlet



ISOMETRIC VIEW



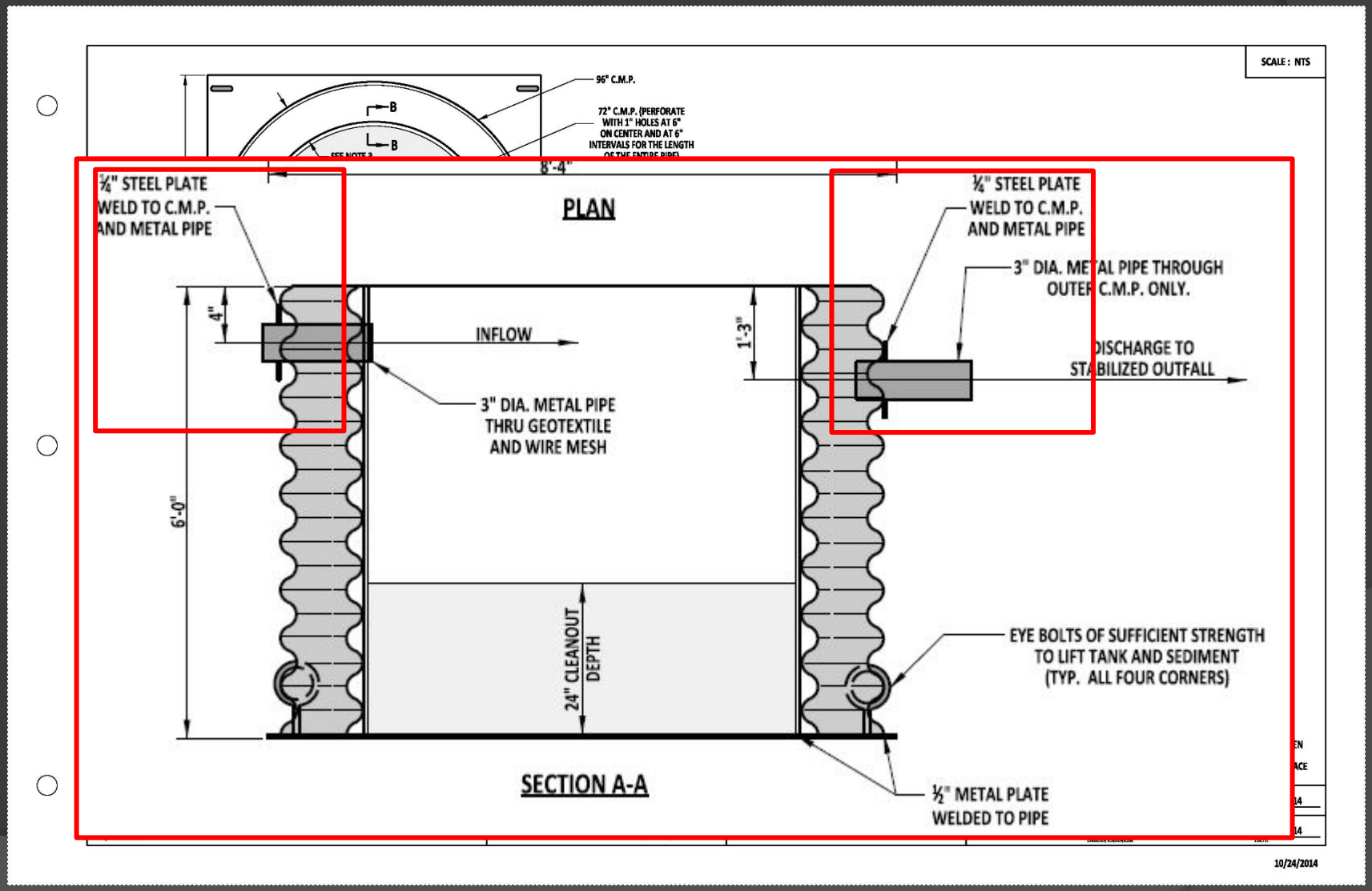
ELEVATION VIEW

DELAWARE DEPARTMENT OF TRANSPORTATION	INLET SEDIMENT CONTROL, DRAINAGE INLET		APPROVED	SIGNATURE ON FILE (CHIEF ENGINEER) 12/30/2014 (DATE)
	STANDARD NO. E-4 (2014)	SHT. 1 OF 1	RECOMMENDED	SIGNATURE ON FILE (DESIGN ENGINEER) 12/11/2014 (DATE)

10/24/2014

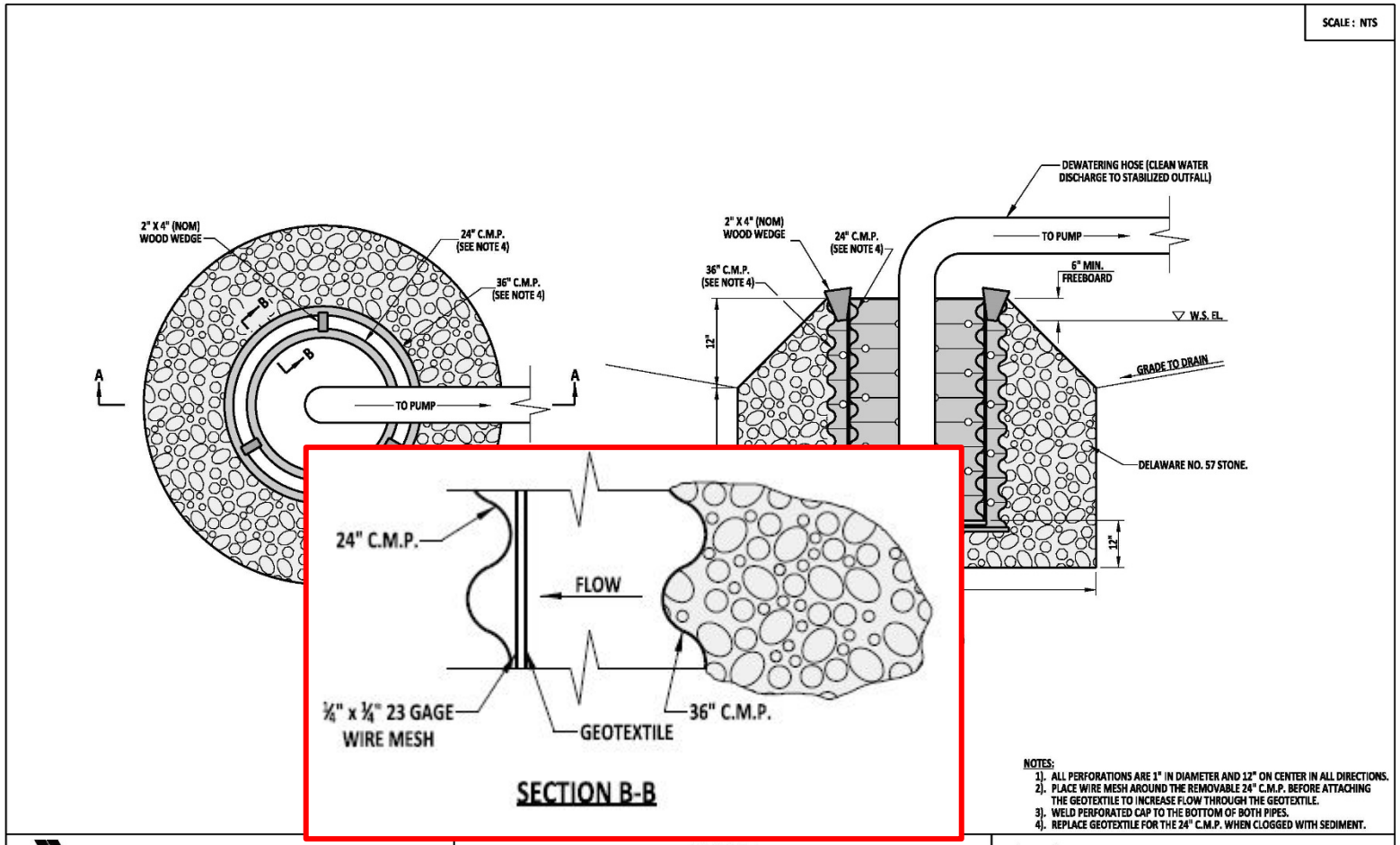
2014 STANDARD CONSTRUCTION DETAILS

Detail E-6, Portable Sediment Tank



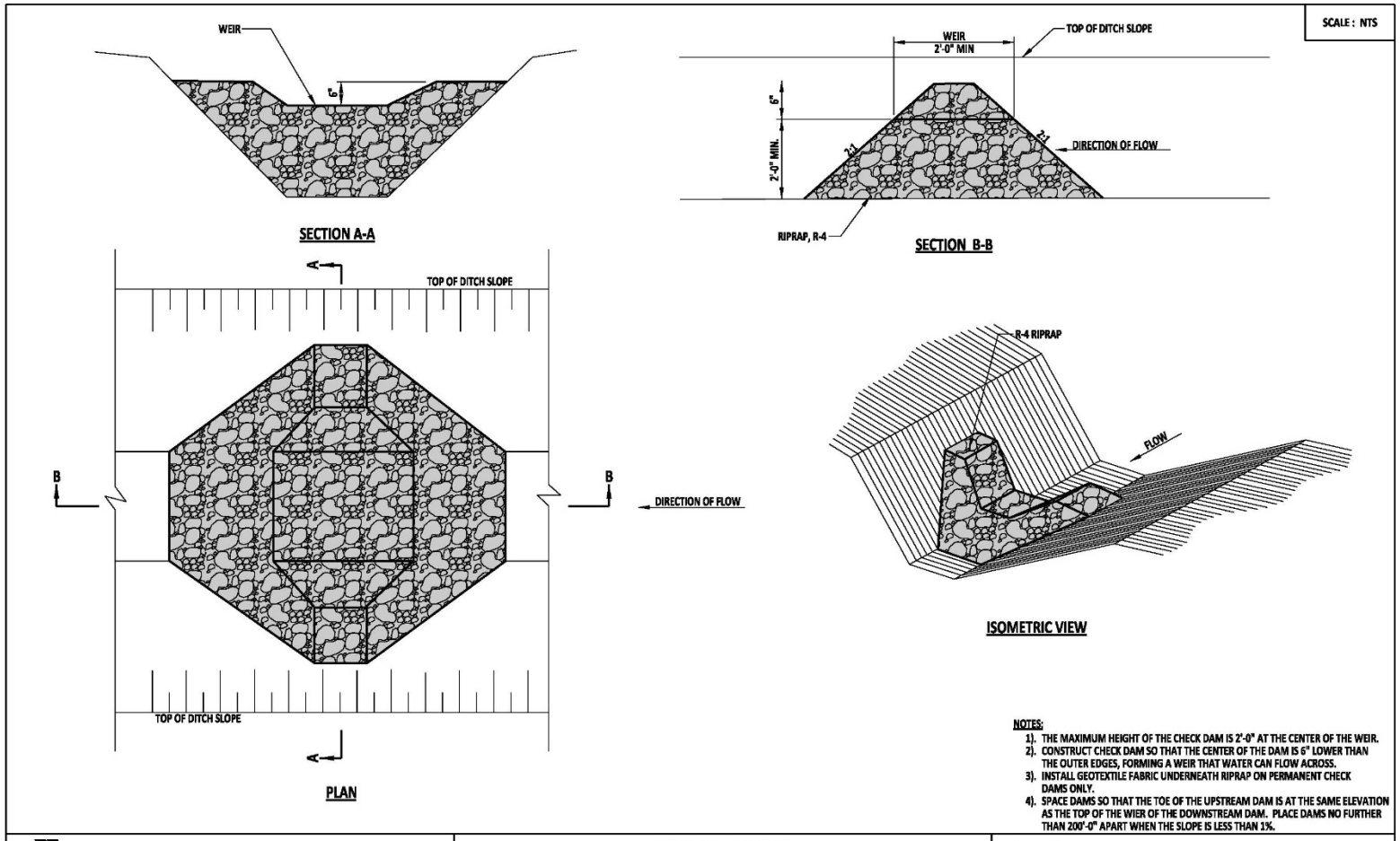
2014 STANDARD CONSTRUCTION DETAILS

Detail E-7, Sump Pit



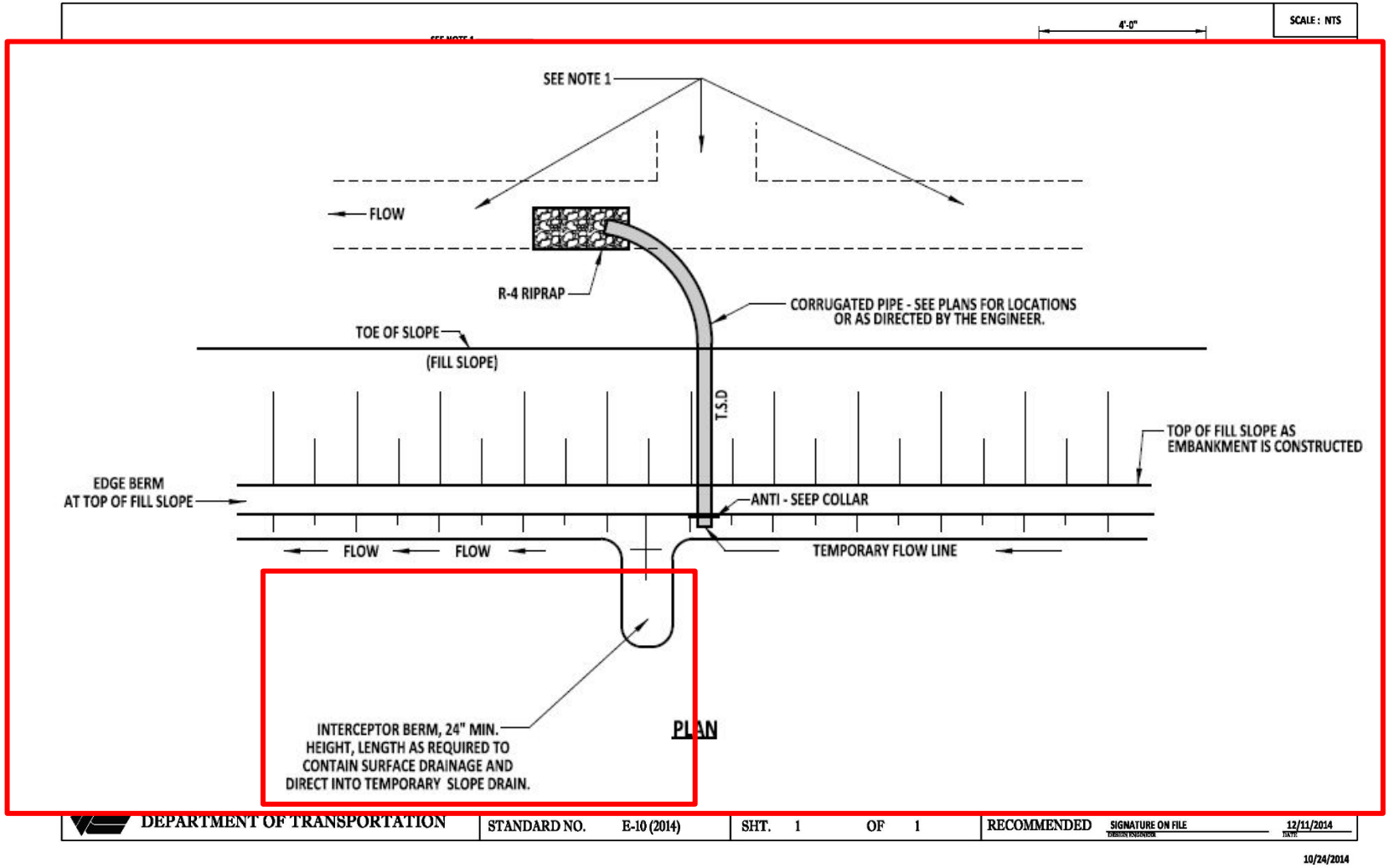
2014 STANDARD CONSTRUCTION DETAILS

Detail E-9, Stone Check Dam



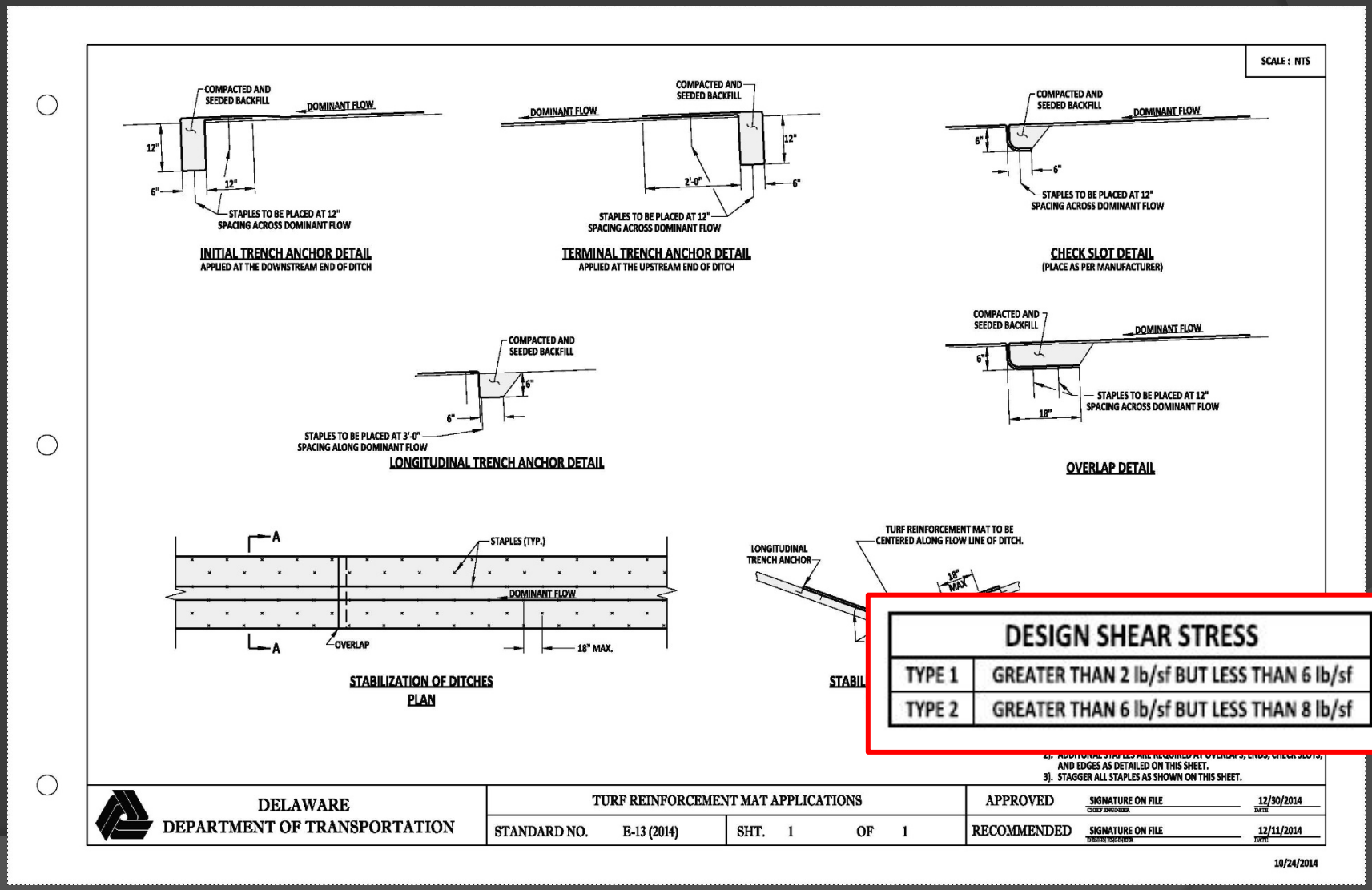
2014 STANDARD CONSTRUCTION DETAILS

Detail E-10, Temporary Slope Drains



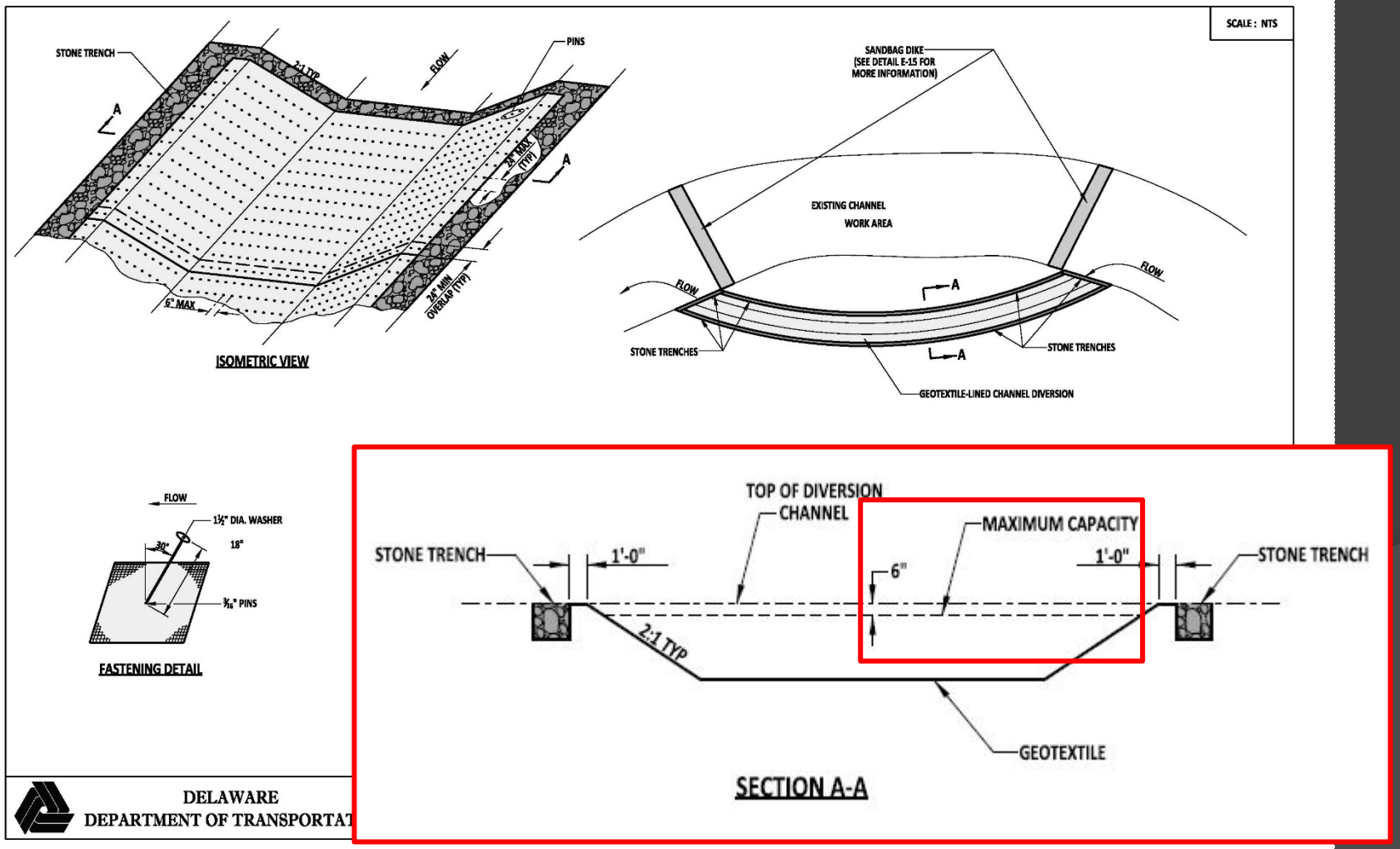
2014 STANDARD CONSTRUCTION DETAILS

Detail E-13 – Turf Reinforcement Mat Applications



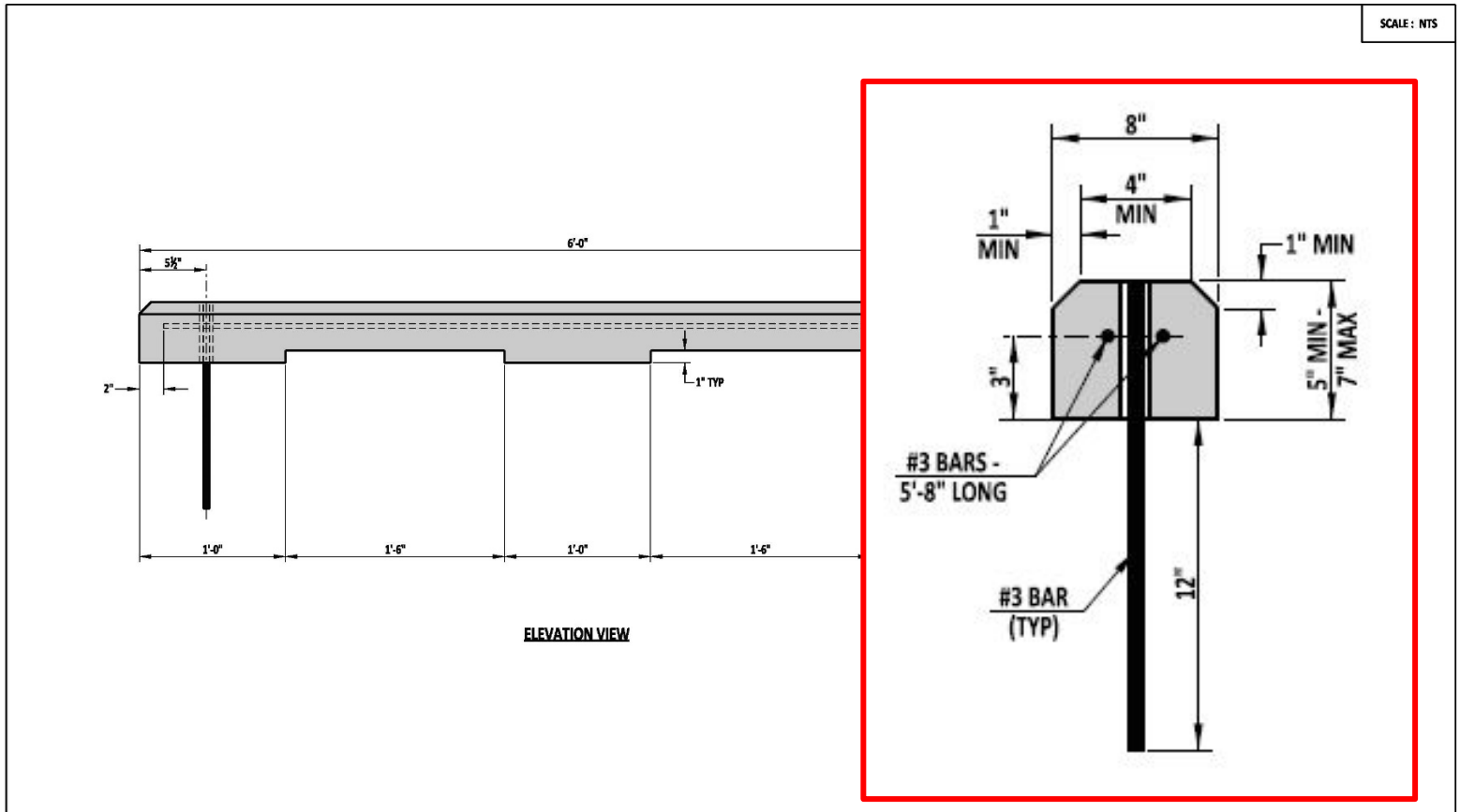
2014 STANDARD CONSTRUCTION DETAILS

Detail E-17, Geotextile-Lined Channel Diversion



2014 STANDARD CONSTRUCTION DETAILS

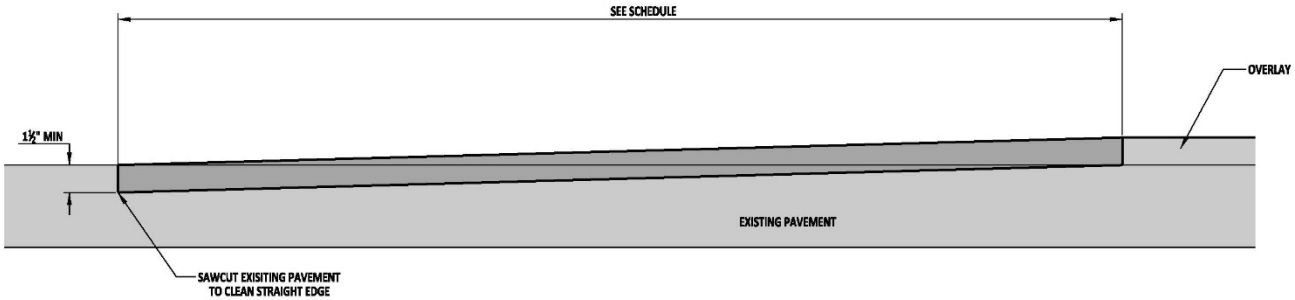
Detail M-8 – P.C.C. Parking Bumper



2014 STANDARD CONSTRUCTION DETAILS

Detail P-3 – Butt Joints

SCALE : NTS



NOTES:
1). ADJUST THE PROFILE OF THE OVERLAY PAVING TO ASSURE A SMOOTH TRANSITION THROUGH THE BUTT JOINT.
2). CRACK SEAL THE JOINT BETWEEN THE BUTT JOINT AND THE EXISTING PAVEMENT.

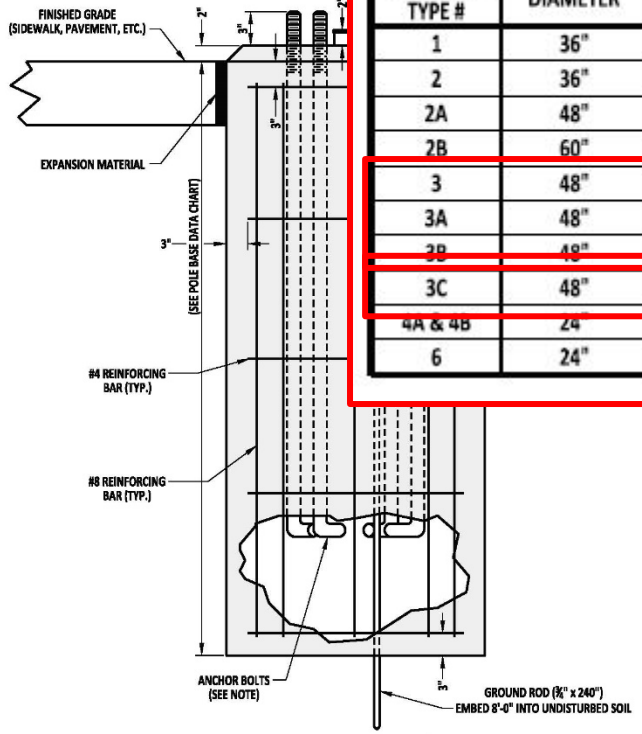
CONDITION	SLOPE FEET:INCHES
GREATER THAN OR EQUAL TO 55 MPH	40:1
LESS THAN 55MPH	30:1
STOP CONTROLLED INTERSECTION	15:1

DELAWARE DEPARTMENT OF TRANSPORTATION	BUTT JOINTS		APPROVED	SIGNATURE ON FILE (CHIEF ENGINEER) 12/30/2014 (DATE)
	STANDARD NO. P-3 (2014)	SHT. 1 OF 1	RECOMMENDED	SIGNATURE ON FILE (DESIGN ENGINEER) 12/11/2014 (DATE)

10/28/2014

2014 STANDARD CONSTRUCTION DETAILS

Detail T-5, Sheet 3 – Pole Bases



TYPICAL SECTION (BASE 6)

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"	14	17	2 - 3"
3A	48"	12'-0"	17	17	2 - 3"
3B	48"	15'-0"	21	17	2 - 3"
3C	48"	20'-0"	27	17	2 - 3"
4A & 4B	24"	2'-4"	NONE	NONE	2 - 2.5"
6	24"	6'-0"	4	8	2 - 3"

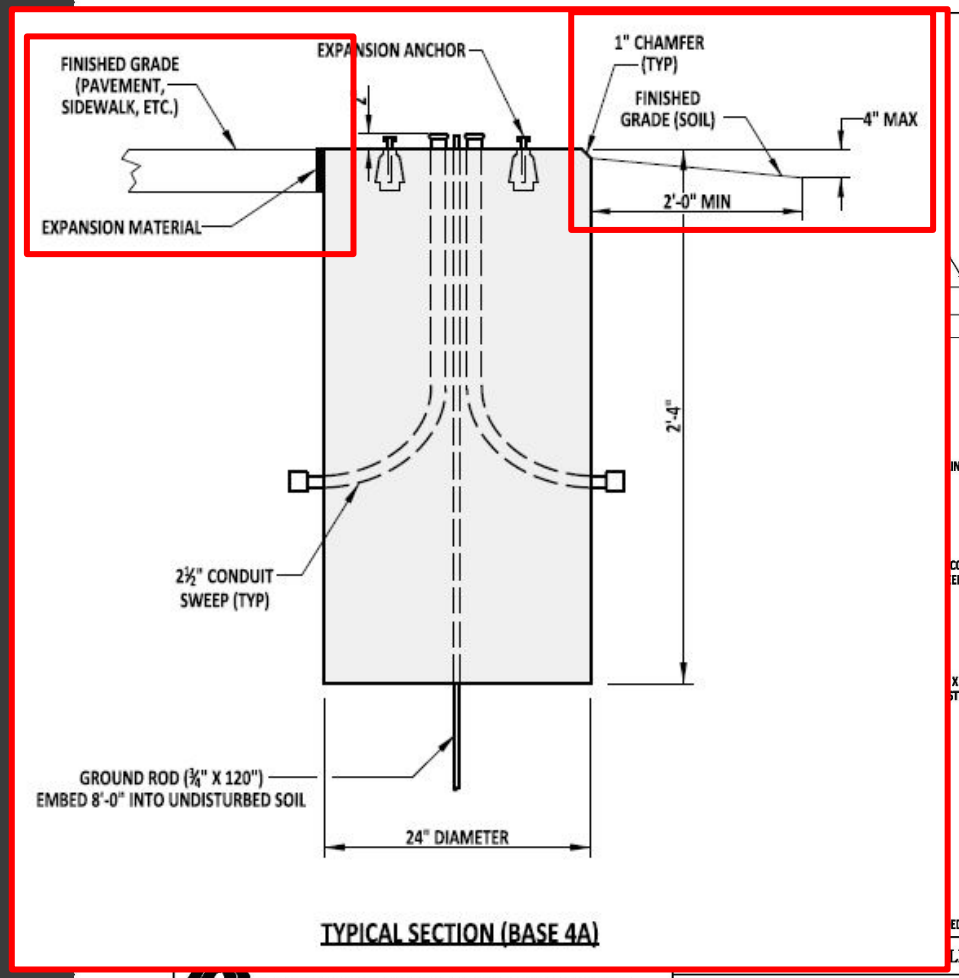
NOTE:
ANCHOR BOLTS AND BOLT PATTERN FOR TYPES 5, 6, & 7 POLE BASES TO BE PROVIDED BY THE MANUFACTURER.

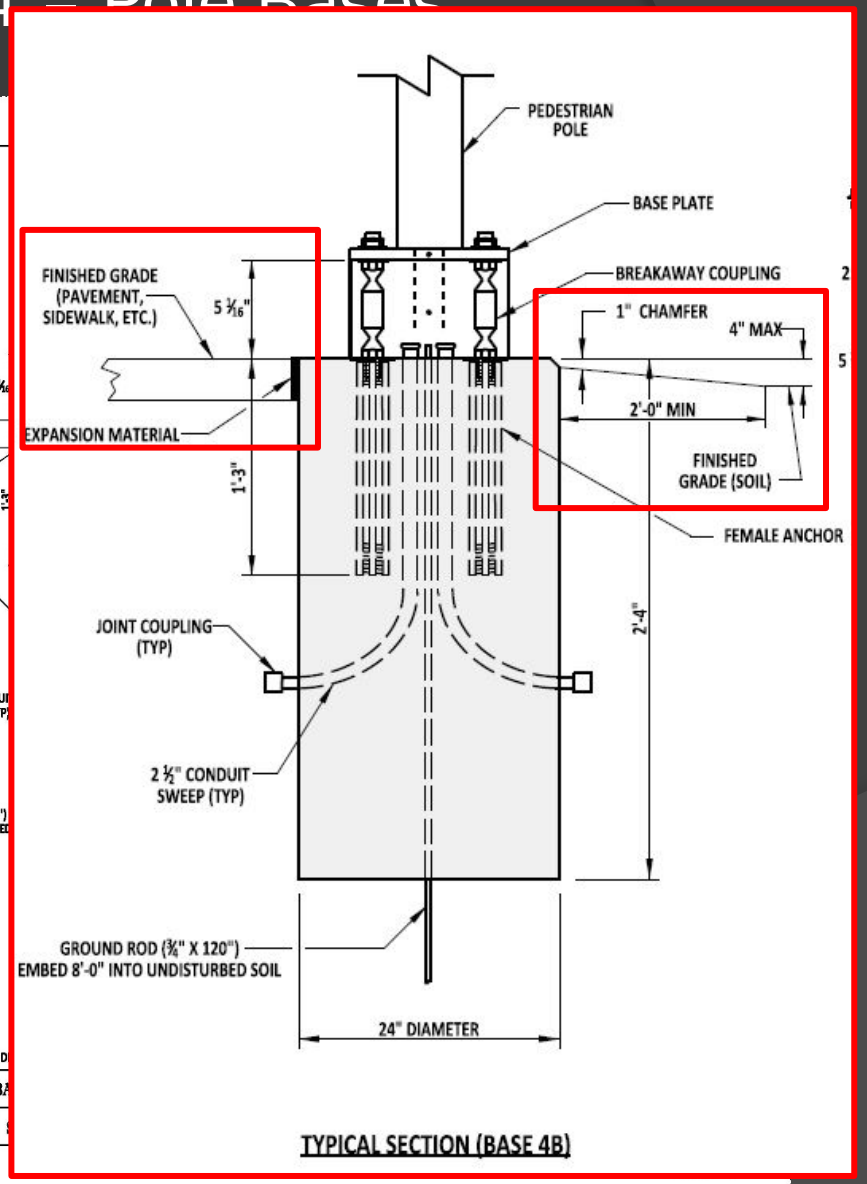
DELAWARE DEPARTMENT OF TRANSPORTATION	POLE BASES		APPROVED	SIGNATURE ON FILE (CHIEF ENGINEER)	12/30/2014 (DATE)
	STANDARD NO. T-5 (2014)	SHT. 3 OF 4	RECOMMENDED	SIGNATURE ON FILE (DESIGN ENGINEER)	12/11/2014 (DATE)

12/4/2014

2014 STANDARD CONSTRUCTION DETAILS

Detail T-5, Sheet 4 – Pole Bases





DEPARTMENT OF TRANSPORTATION | STANDARD NO. T-5 (2014)

2014 STANDARD CONSTRUCTION DETAILS

For any questions or concerns,

Contact Billy Sweeney at

760-2350 or

Billy.Sweeney@state.de.us