*ONLY STANDARD SHEETS MARKED WITH AN "	" ARE IN THIS PROJECT #	0007-0266	**REVISED OR ADDED

SHEET NO.	TITLE	APPRO\ DATE*
HW-211_01	ANTI-TRACKING PAD	11-09-
HW-286_01	DRAINAGE TRENCH EXCAVATION	11-09-
HW-505 01a	STRAIGHT ENDWALLS	01-21-
HW-505 01b	STEEL REINFORCING FOR STRAIGHT ENDWALLS (2" DIFF BASE TO FLOW LINE)	01-05-
HW-505 01c	STEEL REINFORCING FOR STRAIGHT ENDWALLS (STANDARD RIPRAP APPLICATION)	01-05-
HW-505_02	TYPE "D-G" & "L" ENDWALLS	01-05-
HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES	01-05
HW-586_02	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE I STRUCTURES	01-05-
HW-586_03	CATCH BASIN (TYPES "C" AND "C-L") FOR DOUBLE GRATE TYPE II STRUCTURES	01-05-
HW-586_04	PRECAST CATCH BASIN AND ROUND STRUCTURE	10-17-
HW-586_05	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	10-17-
HW-586_06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	10-17-
HW-586 07a	CATCH BASIN TYPE "C" AND "C-L" TOPS	01-05-
HW-586 07b	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	11-09-
HW-586 07c	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	11-08
HW-586 07d	CATCH BASIN TYPE "C-G" AND "C-M" BARRIER CURB TOPS	11-09
HW-586_08	CATCH BASIN FRAMES AND GRATES	11-09-
HW-586_09	CATCH BASIN LOCK DOWN TOPS	11-09-
HW-586_10a	MANHOLE FRAME AND COVER	01-05-
HW-586_10b	MANHOLE FRAME AND GRATE	01-05-
HW-586_10c	REINFORCED PRECAST CONCRETE MANHOLE	11-08
HW-586_10d	MANHOLE NON-PRECAST CONCRETE UNIT	11-08-
HW-686_01a	CONCRETE PIPE CONNECTION SHEET 1	11-08-
HW-686_01b	CONCRETE PIPE CONNECTION SHEET 2	11-08-
HW-686_02a	DRAINANGE PIPE ENDS SHEET 1 [CORRUGATED METAL PIPE]	11-08
HW-686_02b	DRAINAGE PIPE ENDS SHEET 2 [CONCRETE PIPE]	11-08
HW-751_01	underdrains and underdrain outlets	10-17
HW-803_01	PAVED APRONS	11-08
HW-811_01	CONCRETE CURBING	11-08-
HW-813_01	GRANITE STONE TRANSITION CURBING	11-08-
HW-813_02	STONE CURBING	11-08-
HW-815_01	BITUMINOUS CONCRETE CURBING	11-08-

N - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 1	
	11-08-22
N - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-08-22
N - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-08-22
PE PRECAST CONCRETE BARRIER CURB SHEET 1	11-08-22
PE PRECAST CONCRETE BARRIER CURB SHEET 2	11-08-22
N - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-08-22
N - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-08-22
N - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-08-22
N - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 4	11-08-22
N - 32" JERSEY SHAPE TO 45" F-SHAPE	11-08-22
ARKWAY NARROW MEDIAN BARRIER	11-08-22
ARKWAY - 2' WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	11-08-22
N - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 1	11-08-22
N - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 2	11-08-22
CAL SHAPE BARRIER	11-08-22
nous details for barrier transitions	11-08-22
CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	10-17-24
CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	11-08-22
OPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM	11-08-22
OPE CONC. BARRIER CURB (20"x42") TRANS. FOR THRIE-BEAM - REINF.	11-08-22
FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	11-08-22
FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF.	11-08-22
E SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	01-05-24
E SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	01-05-24
RY PRECAST CONCRETE BARRIER CURB	11-08-22
RY TRAFFIC BARRIER - DETAILS	11-08-22
RY TRAFFIC BARRIER (BOLTED)	01-23-25
RY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED)	01-23-25
ALL FENCE	11-09-22
CE	11-08-22

OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

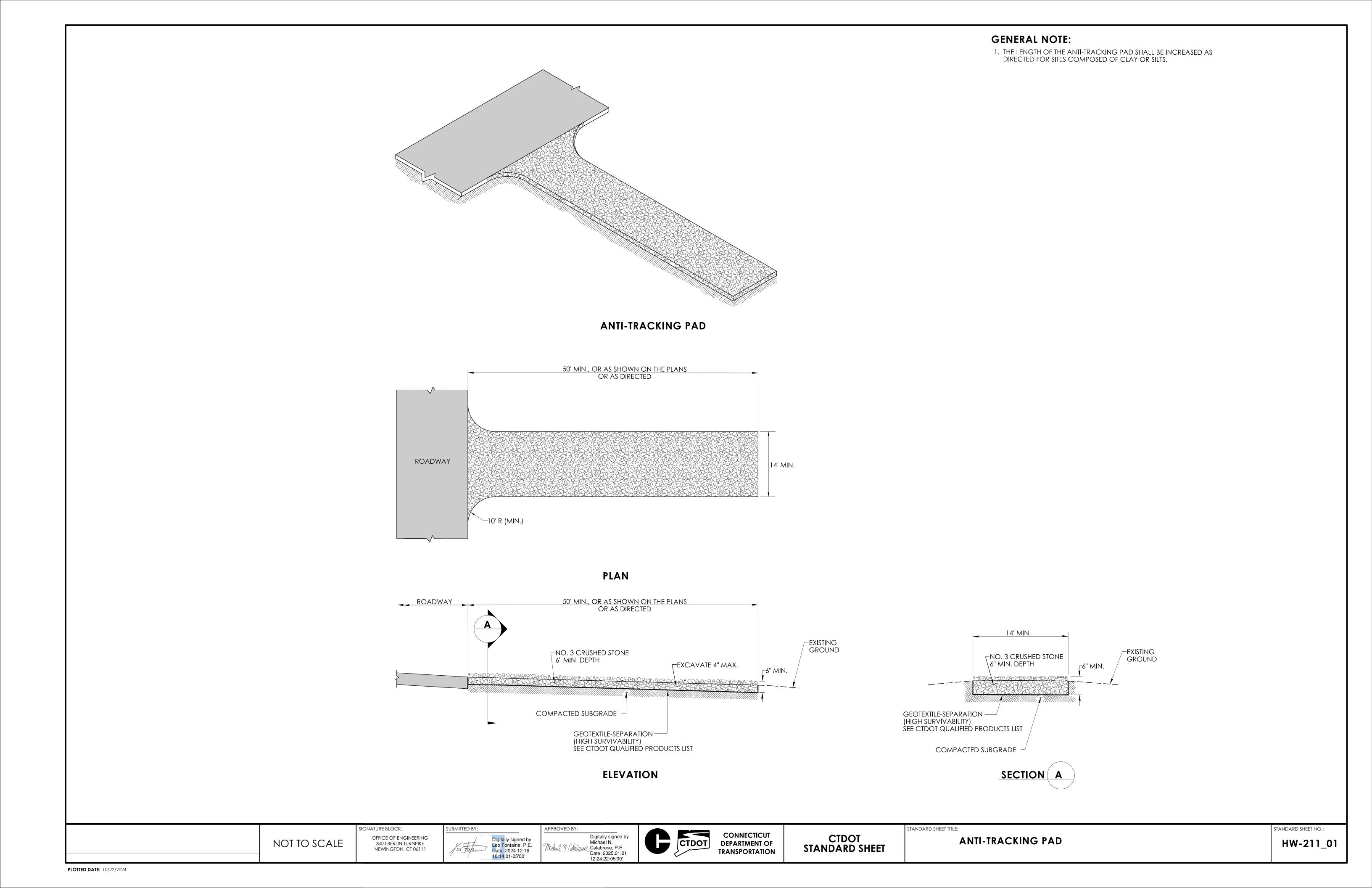
*ONLY STANDARD SHEETS MARKED WITH AN "

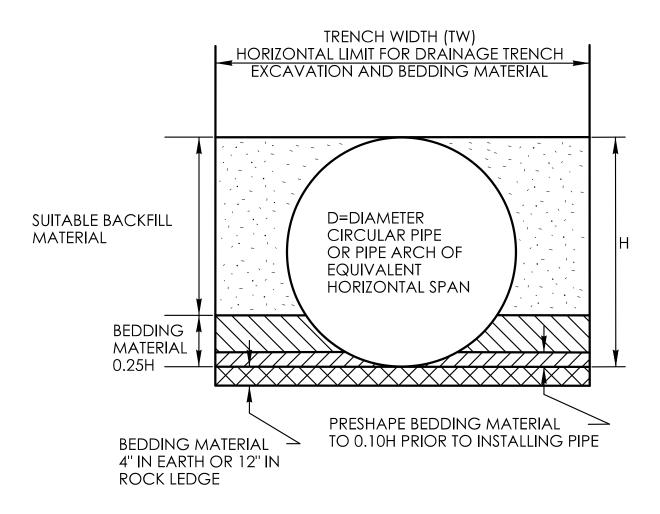
" ARE IN THIS PROJECT # 0007-0266 **REVISED OR ADDED

*	SHEET NO.	TITLE	APPROVA DATE**
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	11-08-22
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	11-08-22
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	11-08-22
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	11-08-22
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	11-08-22
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	11-08-22
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	11-08-22
	HW-910 09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	11-08-22
	HW-910 09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	11-08-22
	HW-910 10	METAL BEAM RAIL 8" x 6" BOX BEAM	11-08-22
	HW-910 11	CURVED GUIDERAIL TREATMENT DETAIL	11-08-22
	HW-910_12a	MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENTS AND SYSTEMS 2&3	11-08-22
	HW-910_12b	MERRITT PARKWAY GUIDERAIL HARDWARE DETAILS	11-08-22
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	11-02-22
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	10-17-24
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	11-08-22
	HW-910_13b	THRIE-BEAM TRANSITIONS	11-08-22
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	11-08-22
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	11-08-22
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	11-08-22
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	11-08-22
	HW-910_17	R-B TERMINAL SECTION	11-08-22
	HW-910_18	METAL BEAM RAIL (TYPE MD-I) GUIDERAIL	11-08-22
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	10-17-24
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	10-17-24
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	11-08-22
	HW-910_20	MASH W-BEAM HARDWARE	10-17-24
	HW-910_21	METAL BEAM RAIL (R-B MASH) GUIDERAIL	01-05-24
	HW-910_22	METAL BEAM RAIL (MD-B MASH) GUIDERAIL	11-08-22
	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF & QUARTER POST SPACING GUIDERAIL	11-08-22
	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	11-08-22

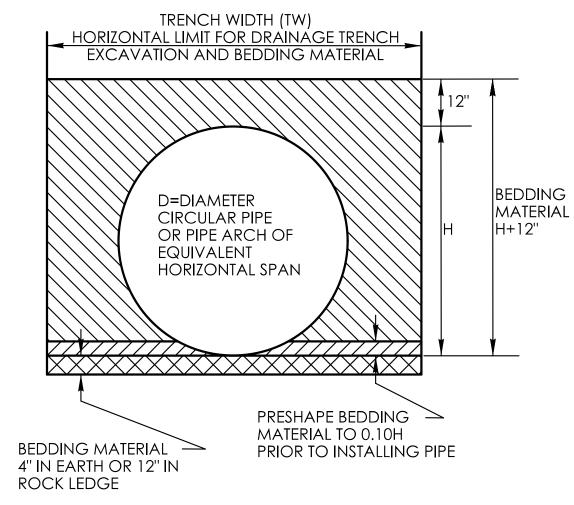
SHEET NO.	TITLE	APPROVAL DATE**
HW-910_25a	metal beam rail transition 350 to mash	10-17-24
HW-910_25b	METAL BEAM RAIL MEDIAN APPLICATION TRANSITION 350 TO MASH GUIDERAIL	01-05-24
HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE	11-08-22
HW-910_27	THRIE-BEAM ATTACHMENT	11-08-22
HW-910_29	THRIE-BEAM BRIDGE ATTACHMENT TRAILING END	02-02-24
HW-911_01	R-B END ANCHORAGE TYPE I AND II	10-17-24
HW-911_02	MD-B END ANCHORAGE TYPE I	10-17-24
HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	01-05-24
HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	11-08-22
HW-913_01a	CHAIN LINK FENCE	11-08-22
HW-913_01b	CHAIN LINK FENCE HARDWARE	11-08-22
HW-913_02	CHAIN LINK FENCE GATES	11-08-22
HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	11-08-22
HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	11-08-22
HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	11-08-22
HW-921_01	CONCRETE SIDEWALKS	11-08-22
HW-922_01	BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY	11-08-22
HW-924_01	CONCRETE DRIVEWAY RAMPS	10-17-24
HW-930_01	OBJECT MARKER (MAINTENANCE)	10-17-24
HW-949_01a	LANDSCAPE PLANTING	11-09-22
HW-949_01b	TREE STAKING	11-02-22
HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	10-17-24
HW-1800 02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)	10-17-24
	HW-910_25a HW-910_25b HW-910_26 HW-910_27 HW-910_29 HW-911_01 HW-911_02 HW-911_03 HW-913_01a HW-913_01b HW-918_01a HW-918_01b HW-918_01c HW-921_01 HW-922_01 HW-924_01 HW-930_01 HW-949_01b HW-949_01b HW-949_01b	HW-910_250 METAL BEAM RAIL TRANSITION 350 TO MASH HW-910_25b METAL BEAM RAIL MEDIAN APPLICATION TRANSITION 350 TO MASH GUIDERAIL HW-910_26 THRIE-BEAM ATTACHMENT HARDWARE HW-910_27 THRIE-BEAM BRIDGE ATTACHMENT TRAILING END HW-911_01 R-B END ANCHORAGE TYPE I AND II HW-911_02 MD-B END ANCHORAGE TYPE I AND II HW-911_03 ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE HW-911_05 MERRITT PARKWAY GUIDERAIL END ANCHORS HW-913_010 CHAIN LINK FENCE HW-913_010 CHAIN LINK FENCE HARDWARE HW-913_02 CHAIN LINK FENCE GATES HW-918_010 THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1 HW-918_010 THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2 HW-918_010 THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3 HW-921_01 CONCRETE SIDEWALKS HW-922_01 BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY HW-924_01 CONCRETE DRIVEWAY RAMPS HW-930_01 OBJECT MARKER (MAINTENANCE) HW-949_010 TREE STAKING HW-949_010 TREE STAKING HW-949_010 GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)

CONNECTICUT DEPARTMENT OF TRANSPORTATION





PIPE TRENCH FOR PIPES LESS THAN 48"

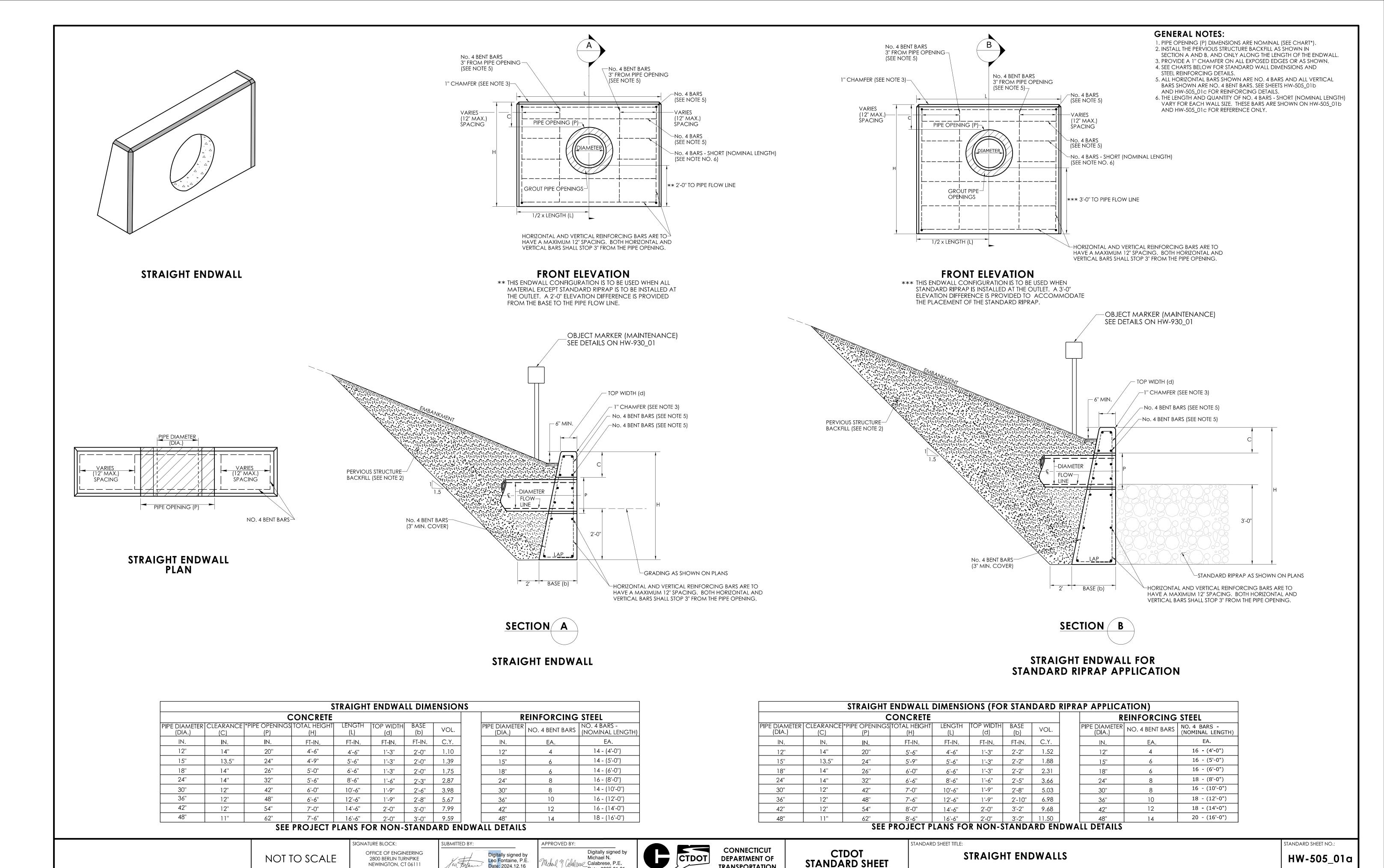


PIPE TRENCH FOR PIPES GREATER THAN OR EQUAL TO 48"

TRENCH WIDTH (TW) CHART

PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30"	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30"	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS

STANDARD SHEET NO.:



TRANSPORTATION

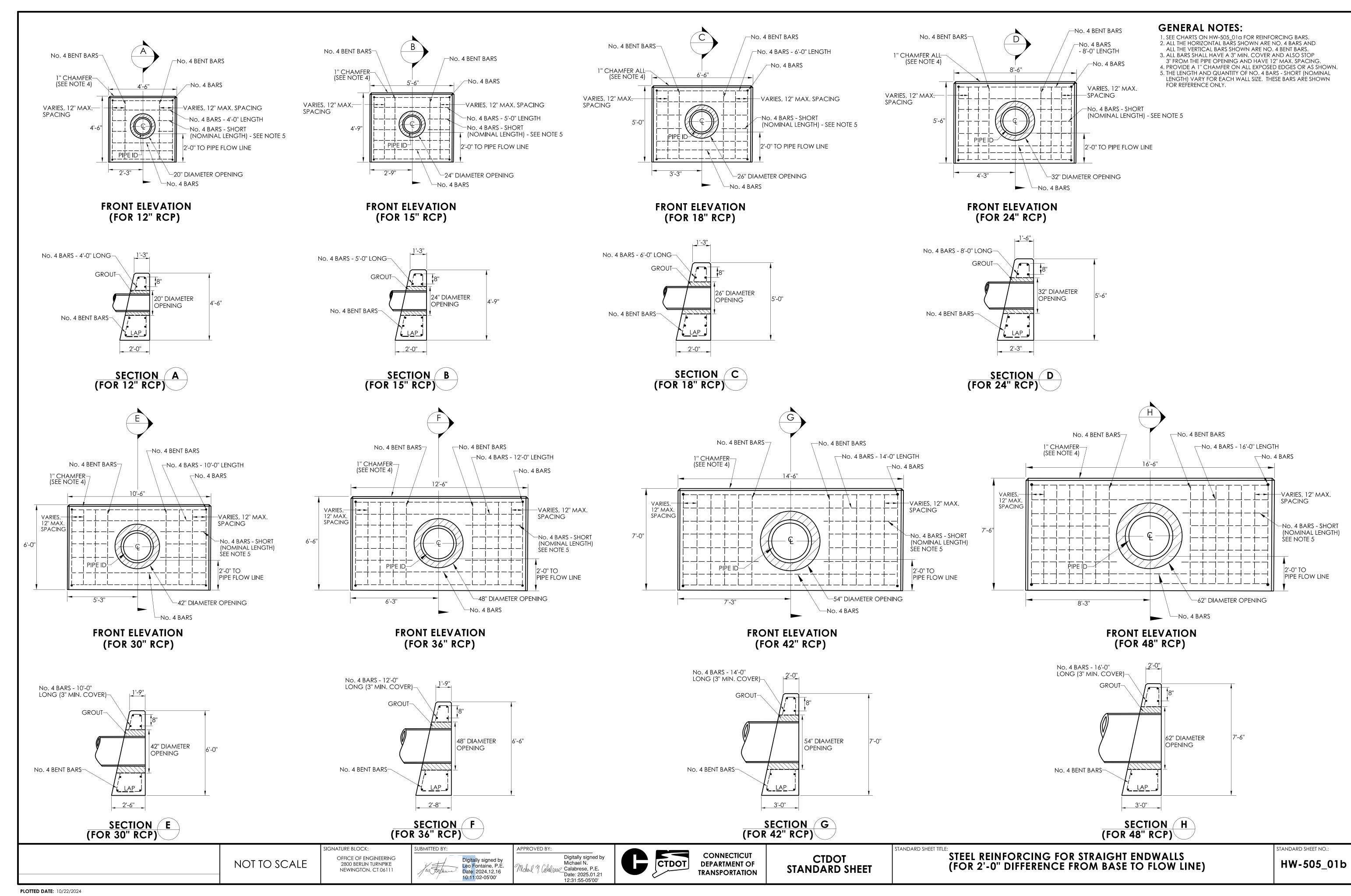
PLOTTED DATE: 10/22/2024

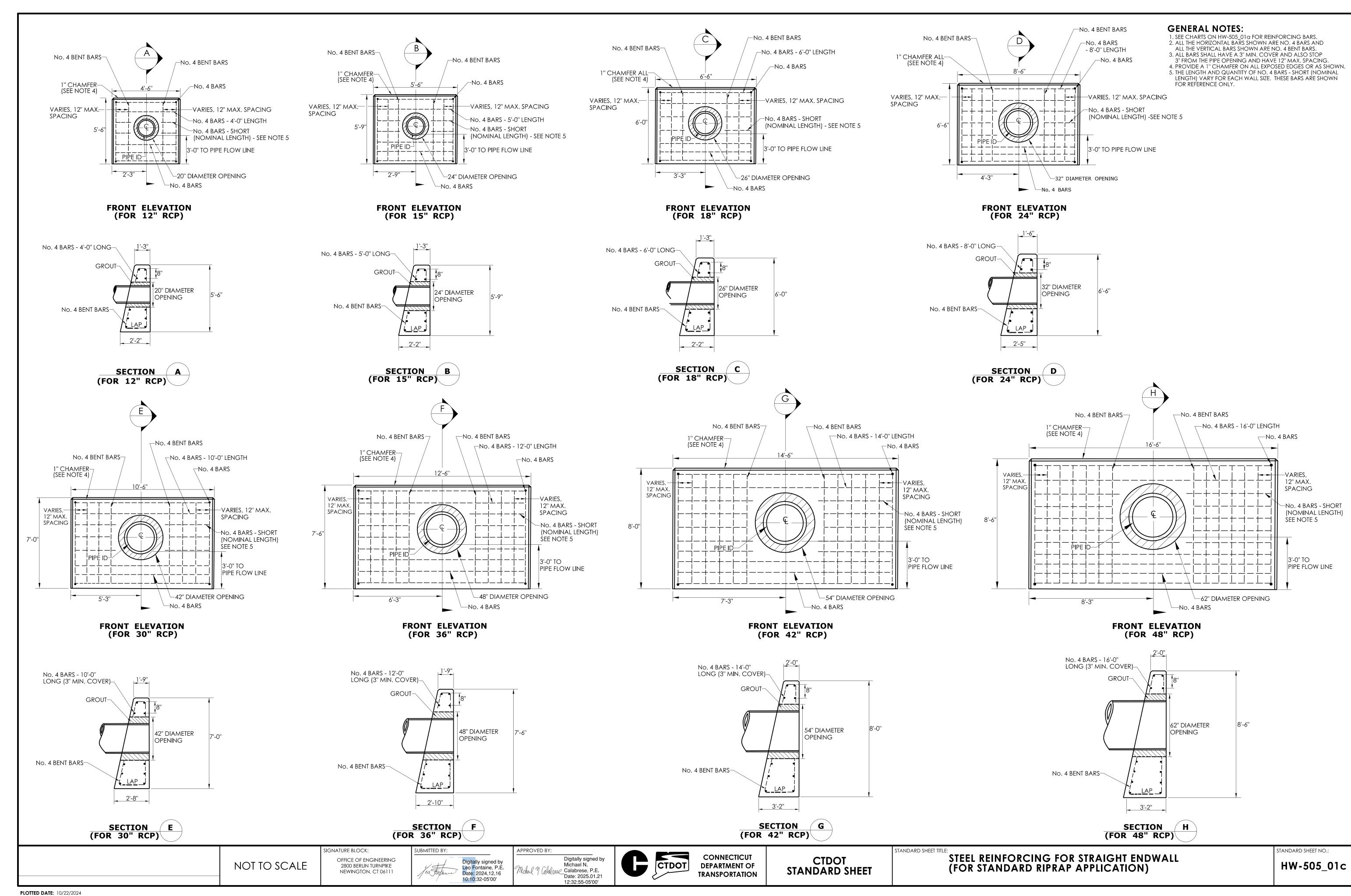
NEWINGTON, CT 06111

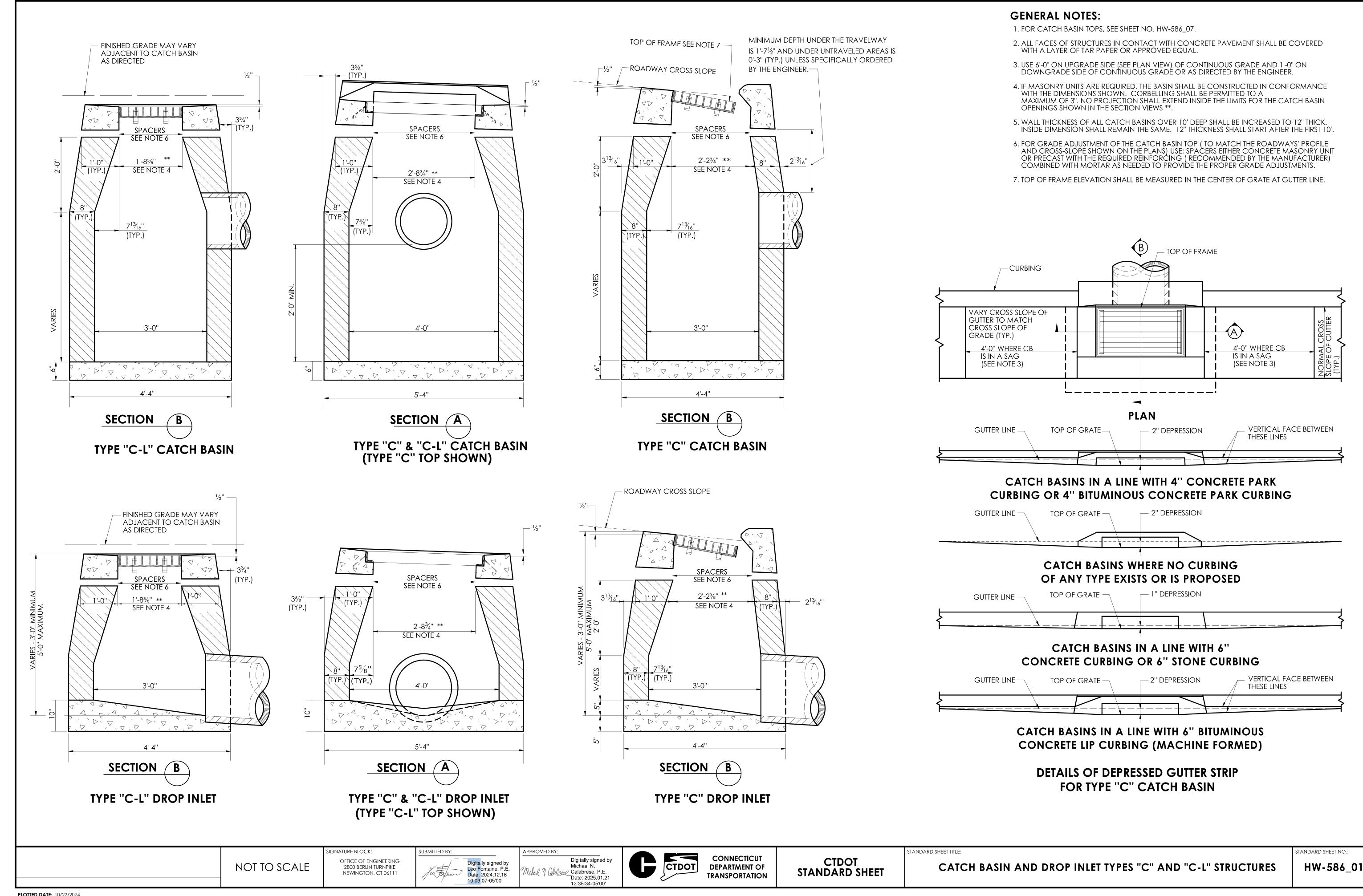
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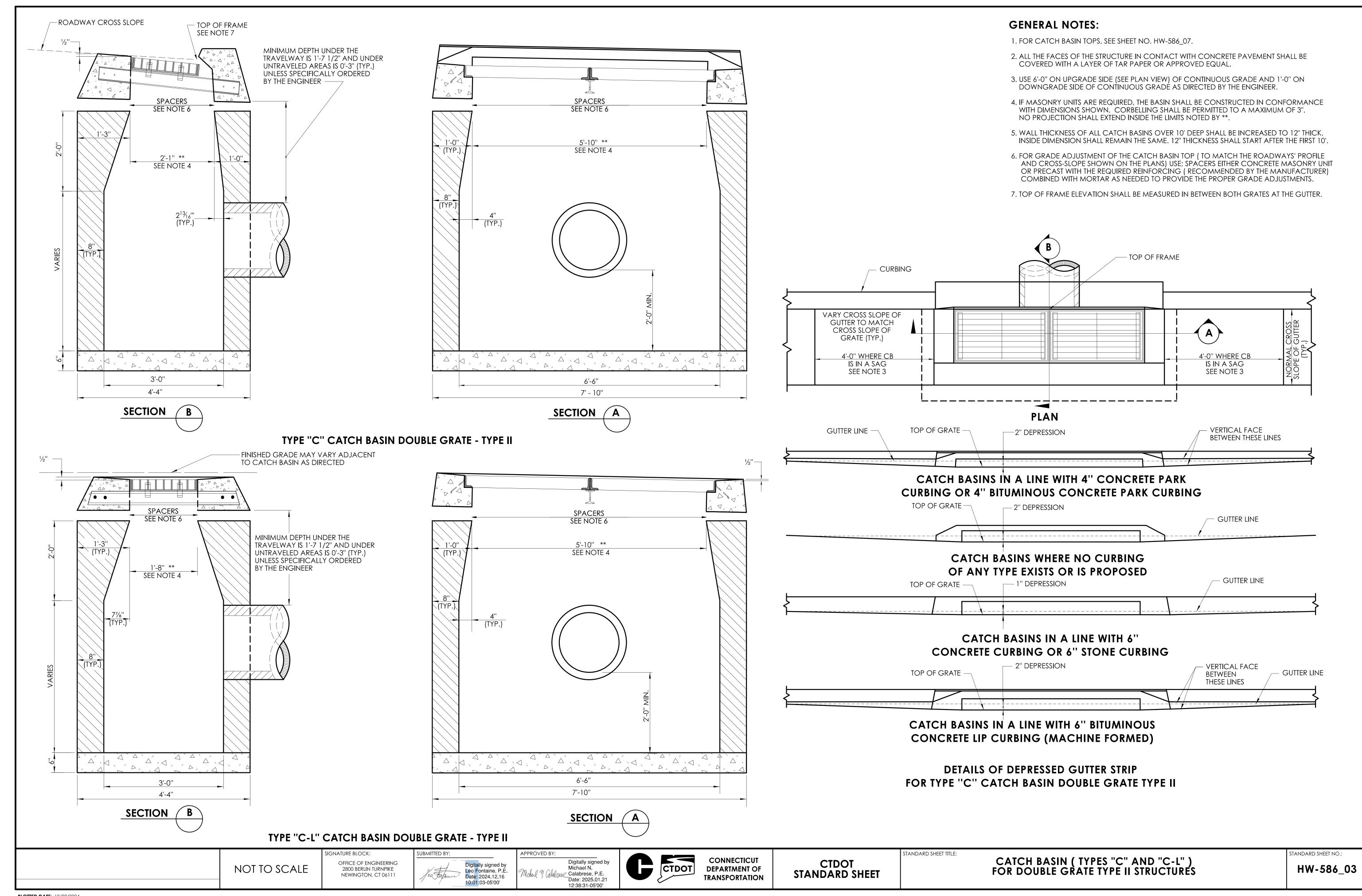
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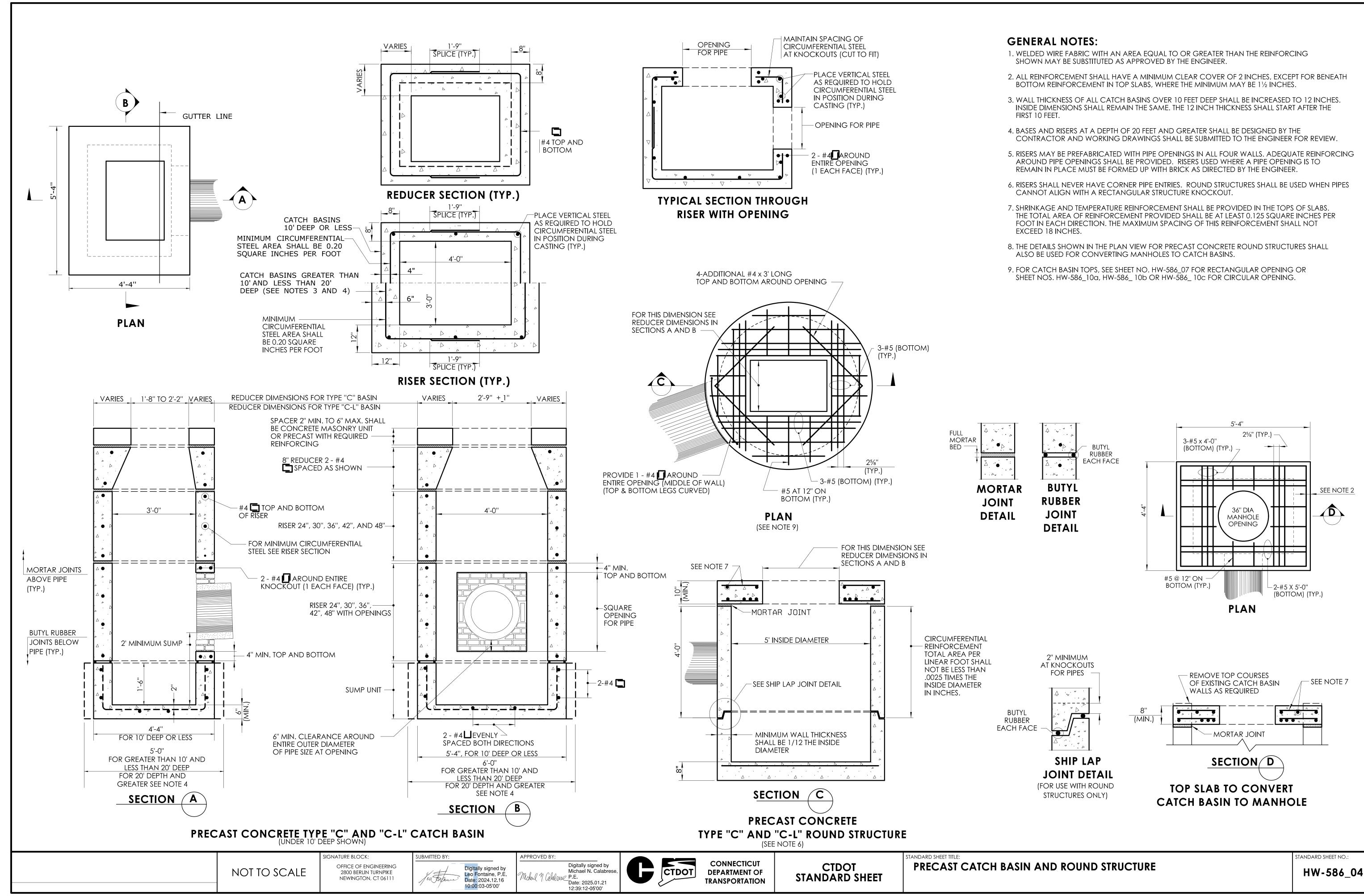
Date: 2025.01.21

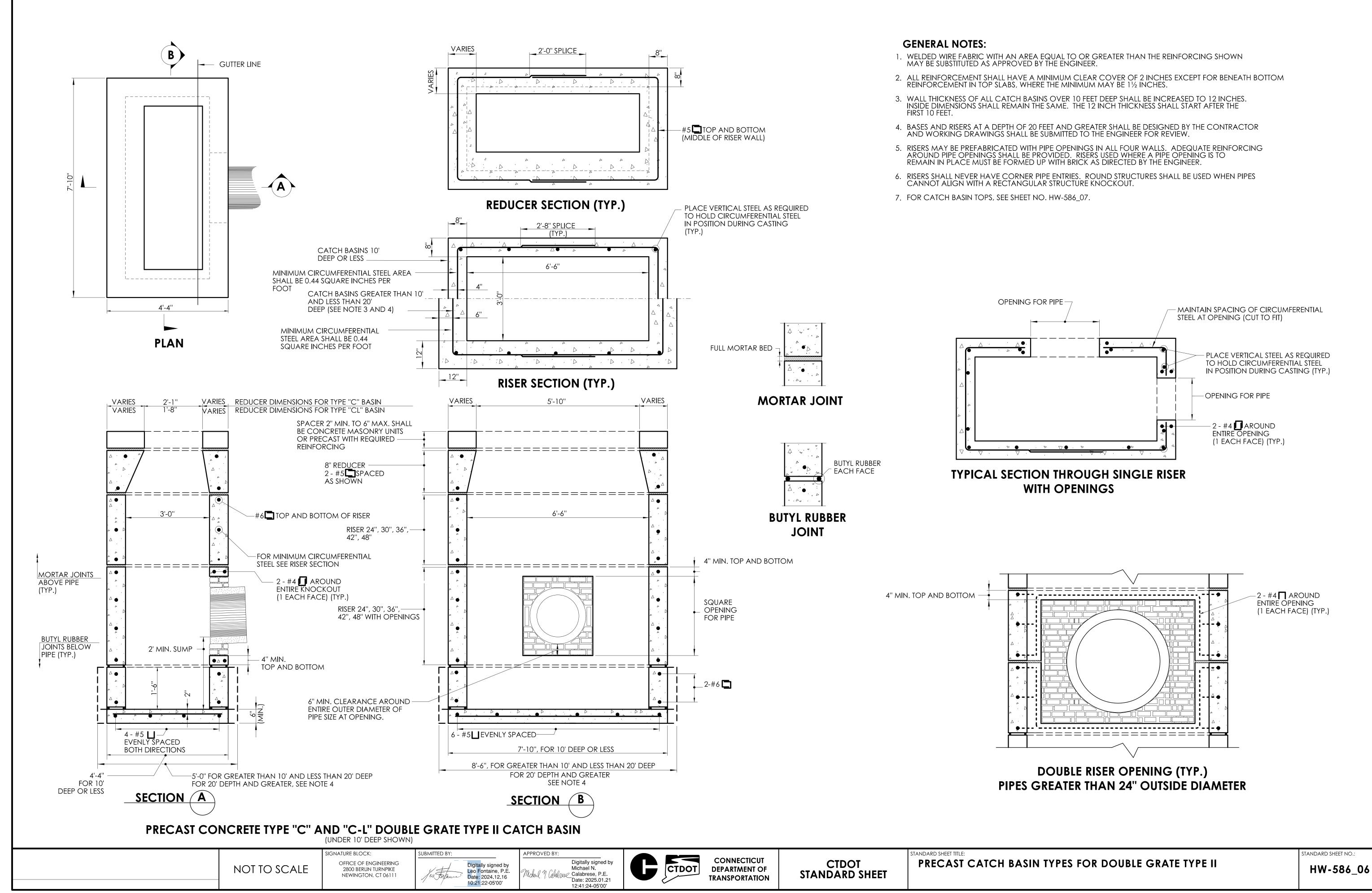


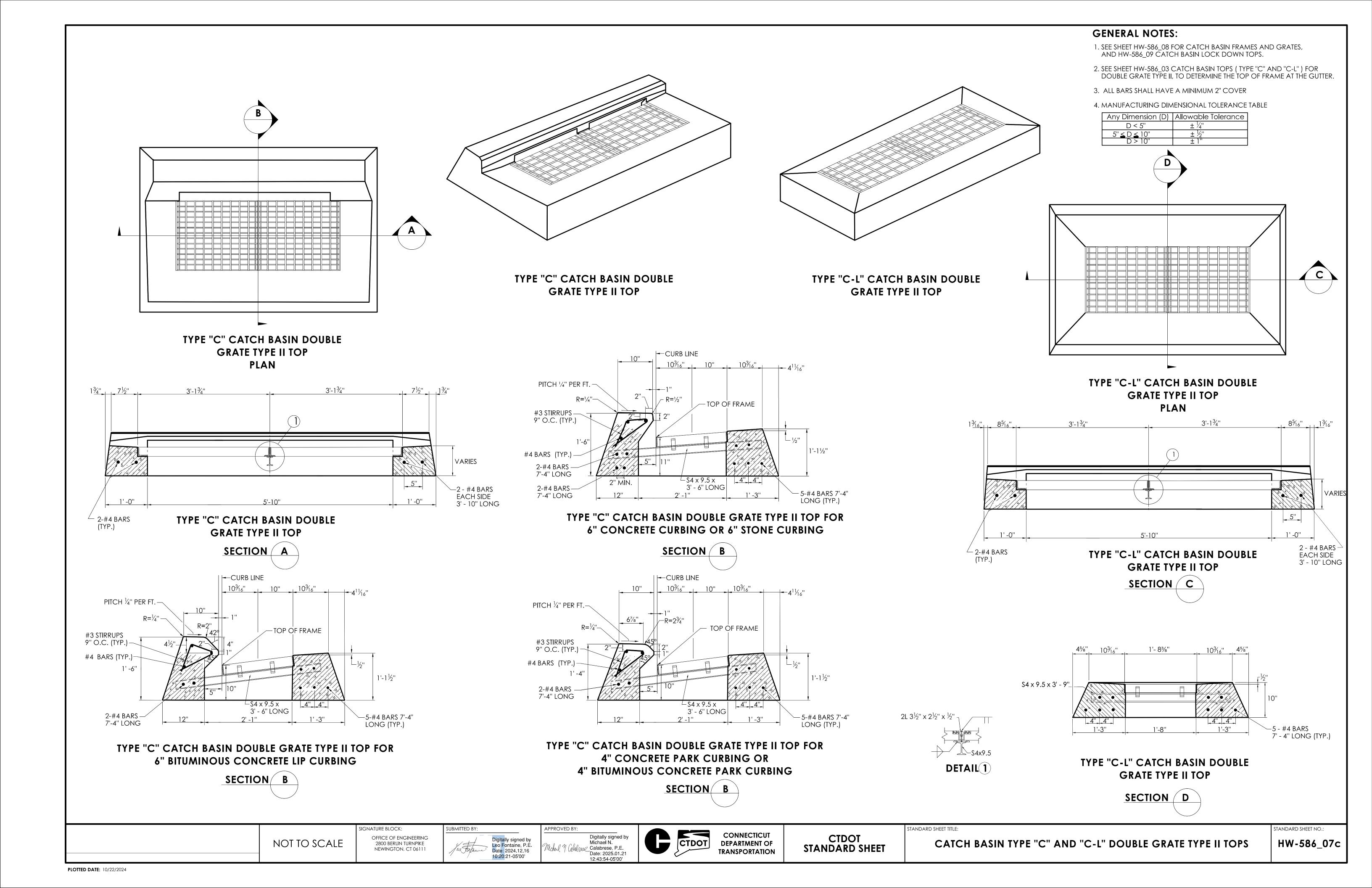


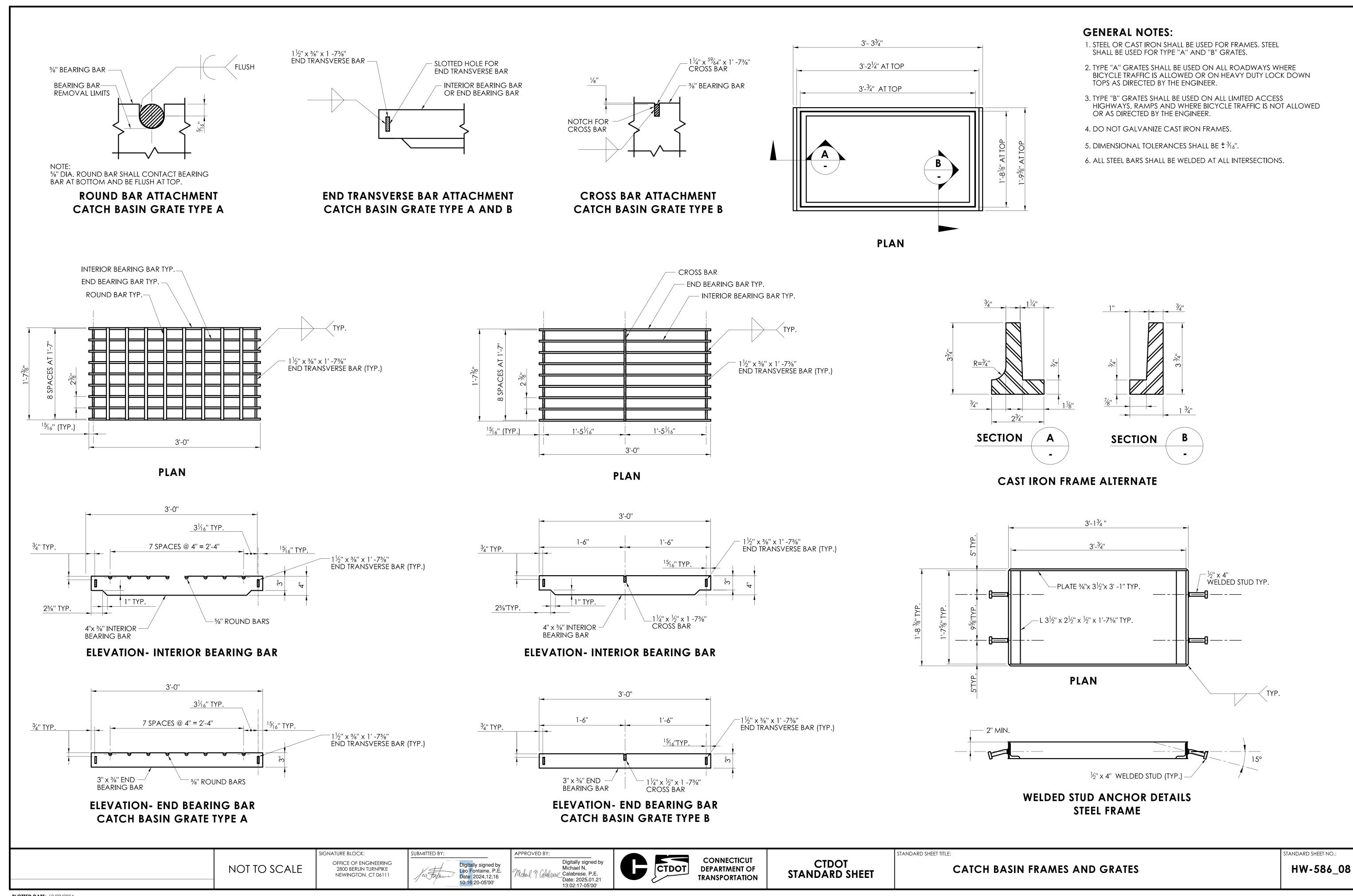




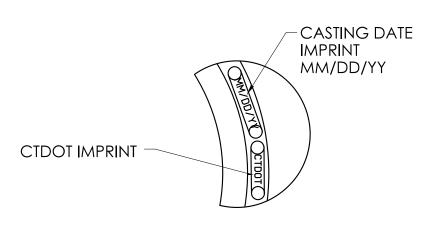




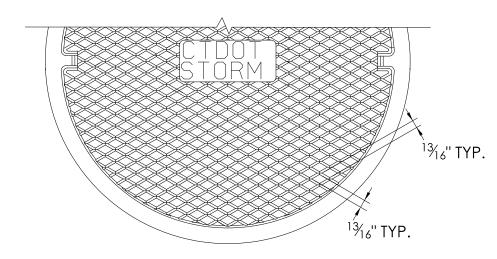




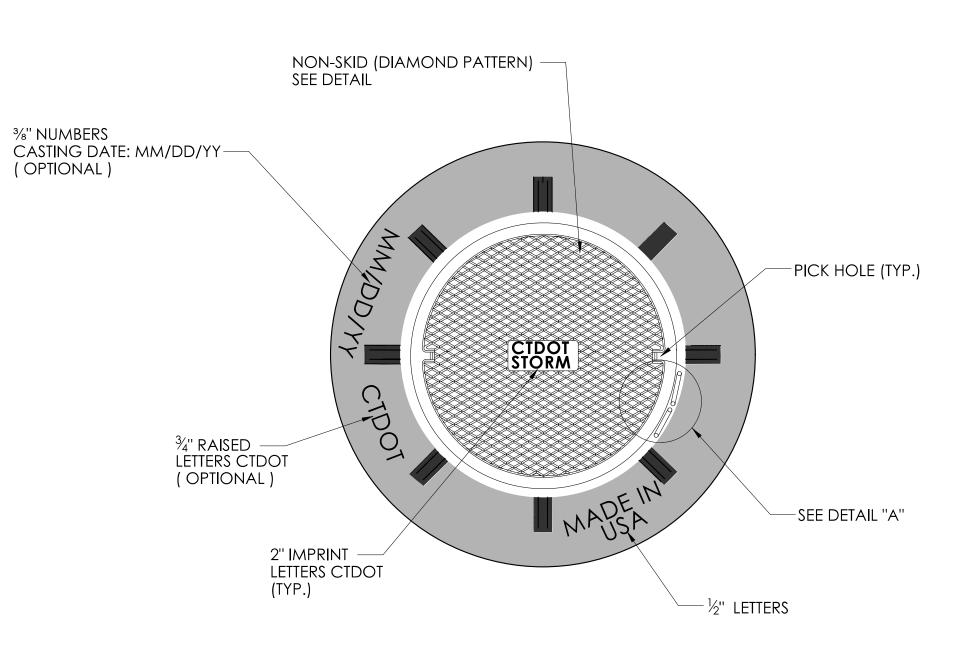
- 1. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURING TOLERANCES.
- CASTING DATE SHALL BE INDICATED ON EACH; FRAME (SEE DETAIL A) AND COVER (PLACED ON UNDERSIDE).



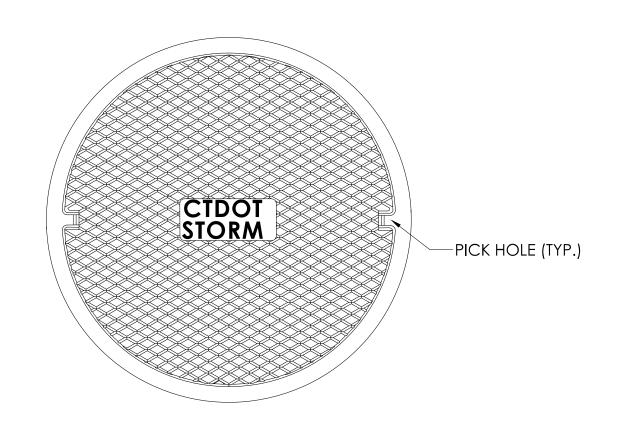
DETAIL "A"



DIAMOND PATTERN PLAN



PLAN



CTDOT STORM

MANHOLE FRAME AND COVER

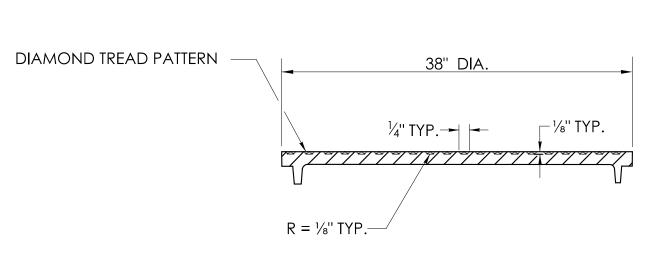
38 ¼"

36"

CLEAR OPENING

6" MIN.

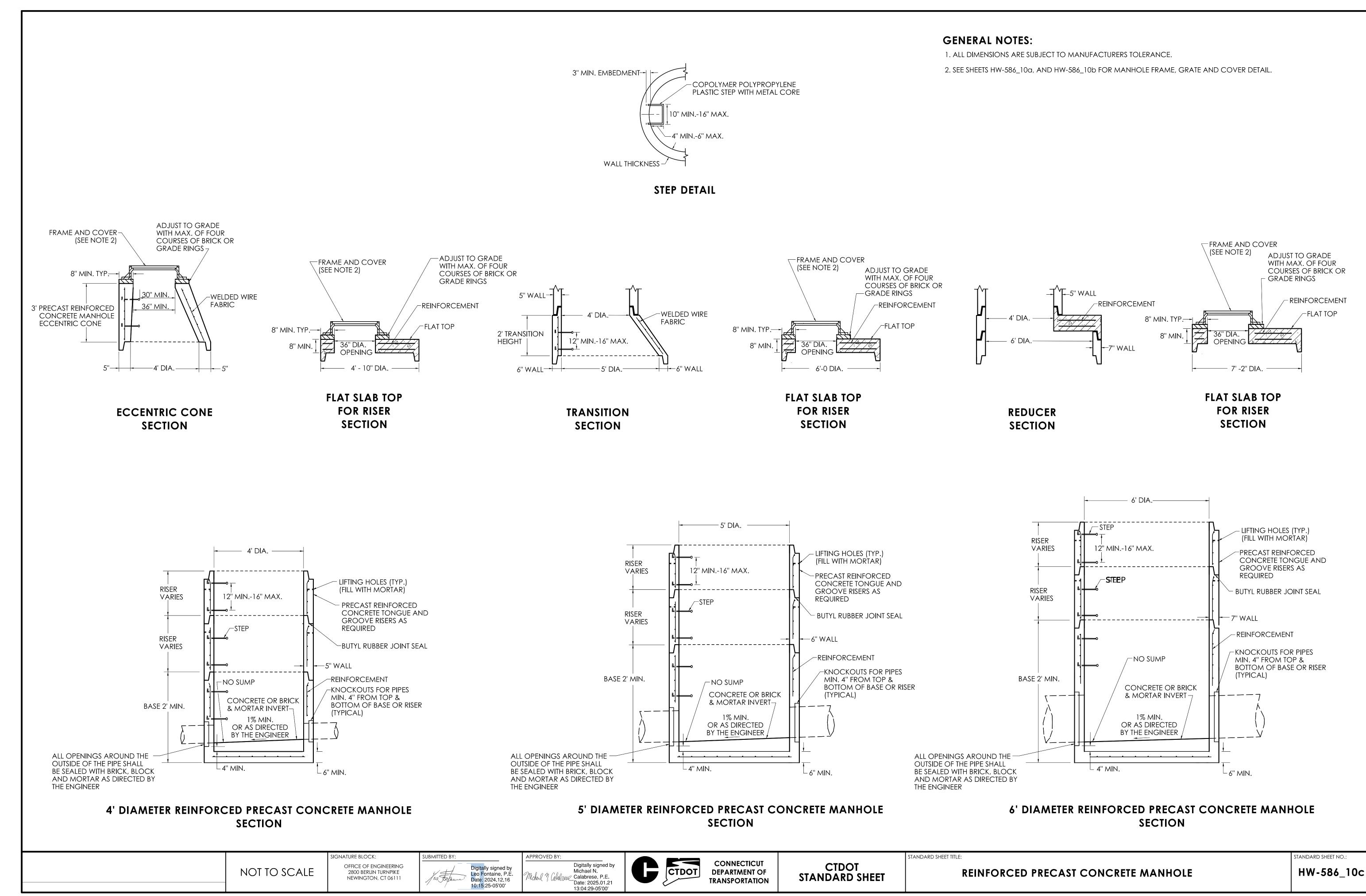
MANHOLE FRAME AND COVER

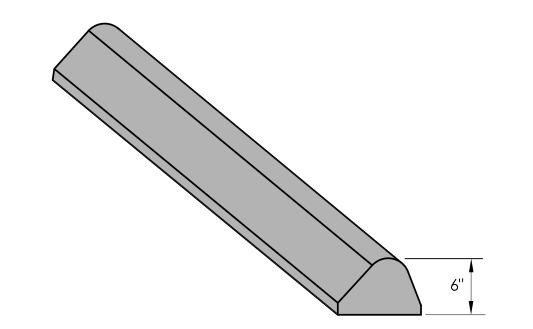


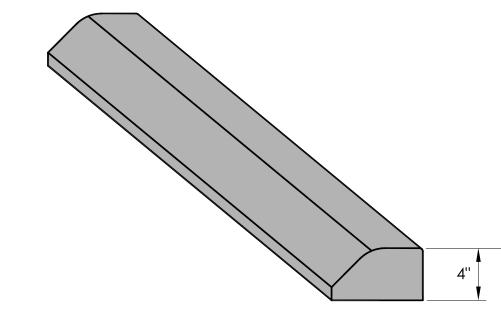
MANHOLE COVER WITH DIAMOND PATTERN

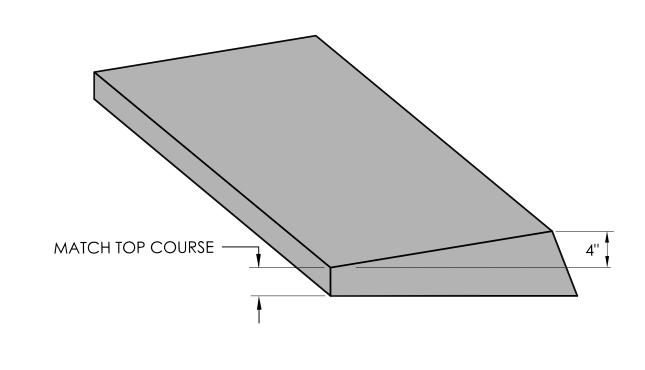
MANHOLE COVER

PLAN





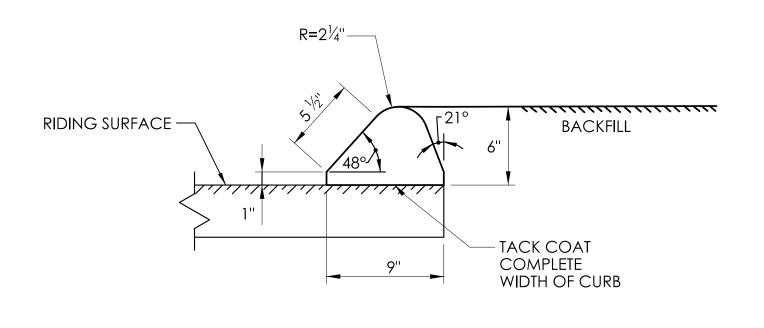


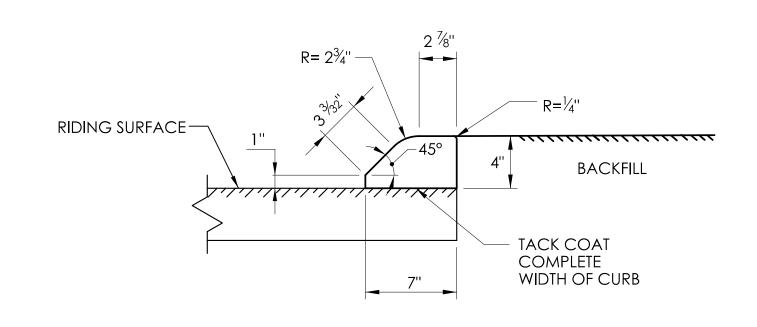


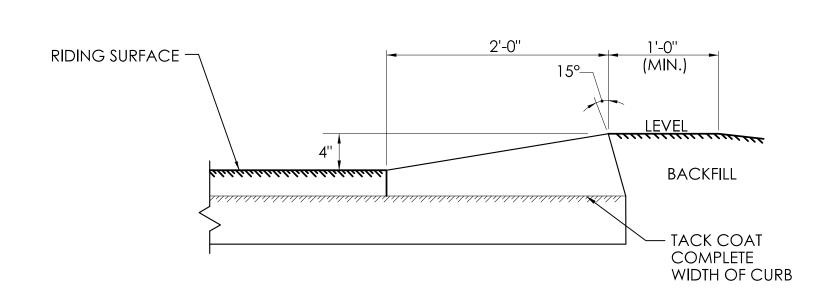
BITUMINOUS CONCRETE LIP CURBING (6" HIGH)

BITUMINOUS CONCRETE PARK CURBING (4" HIGH)

BITUMINOUS CONCRETE BERM CURBING (4" HIGH)





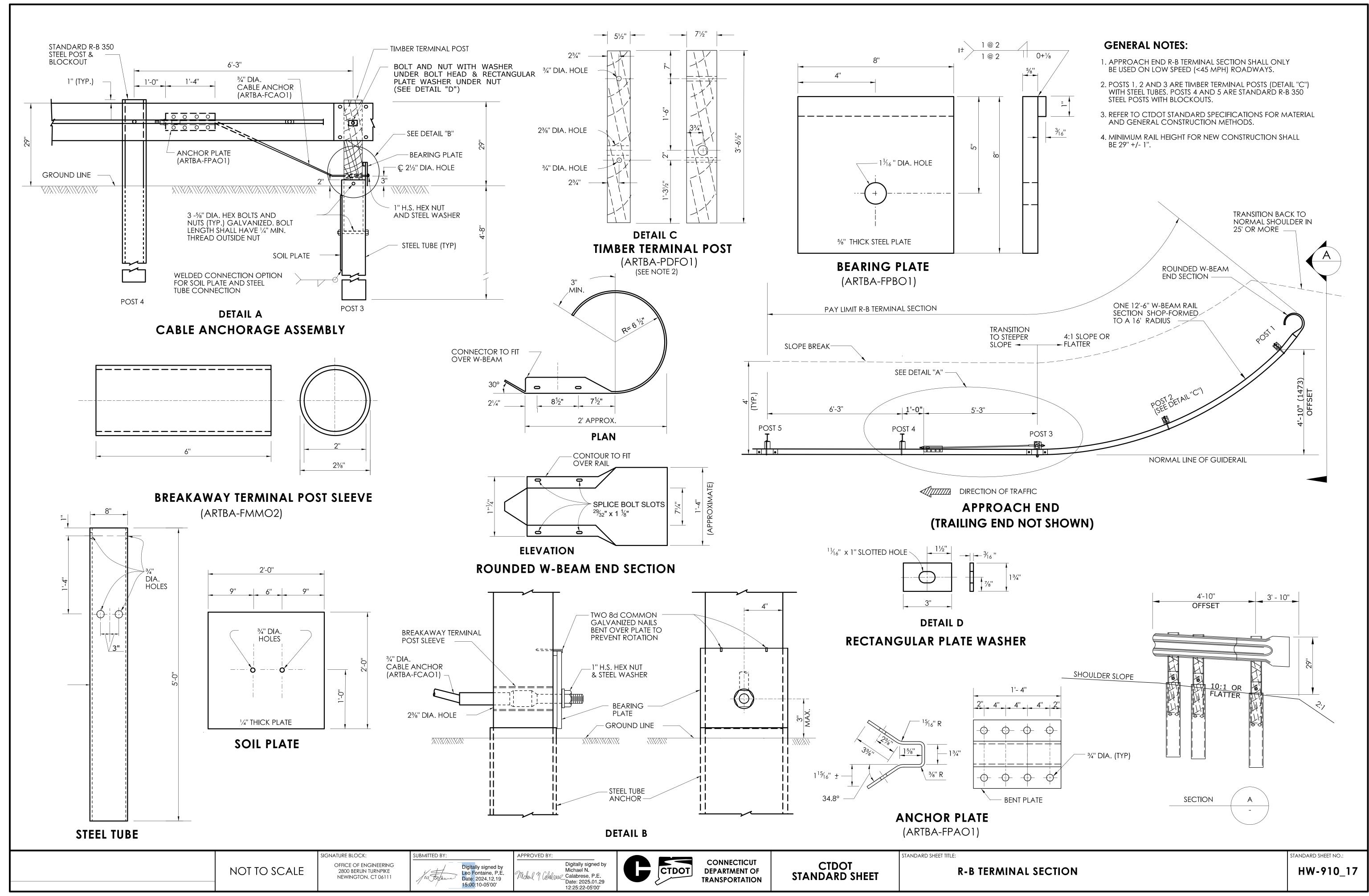


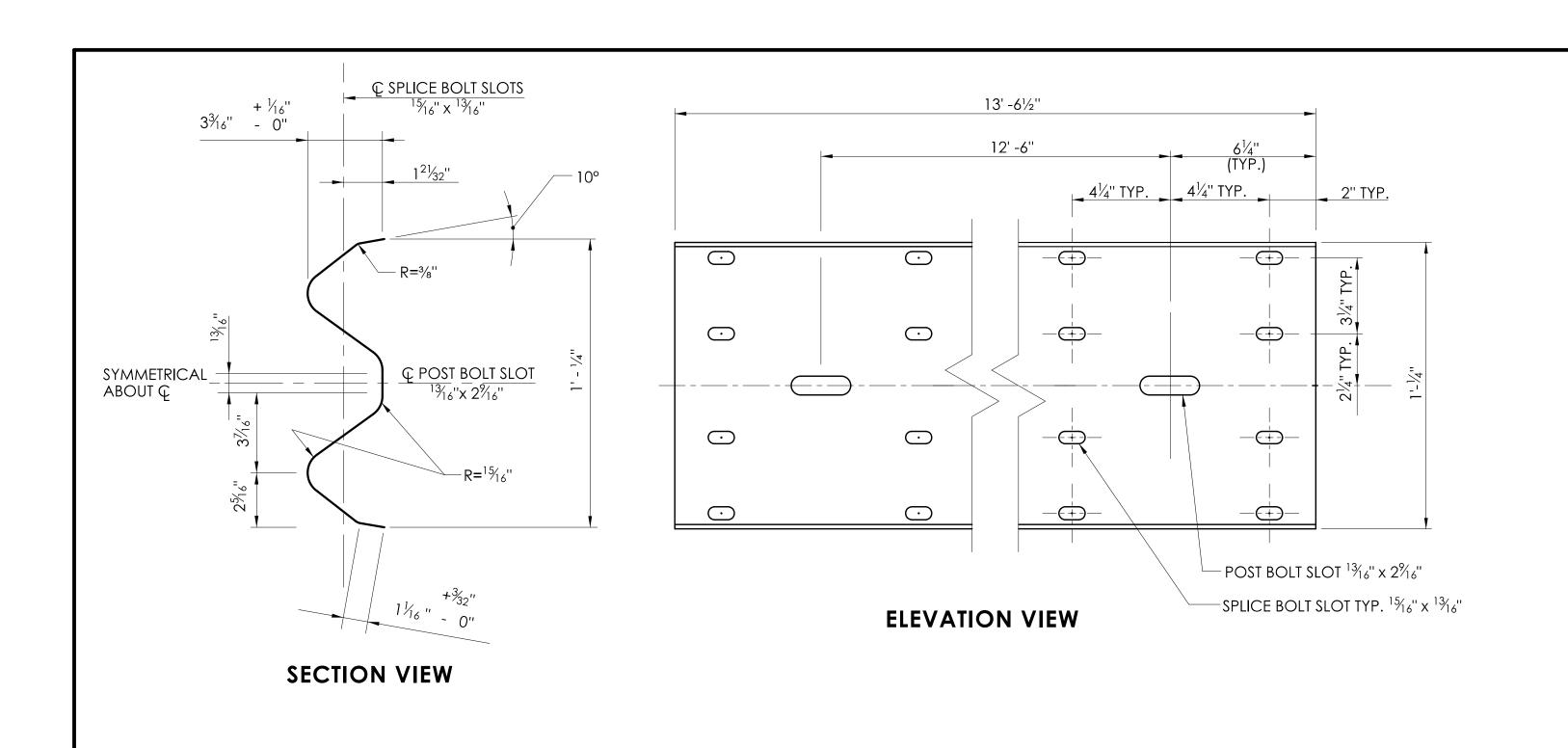
SECTION

SECTION SECTION

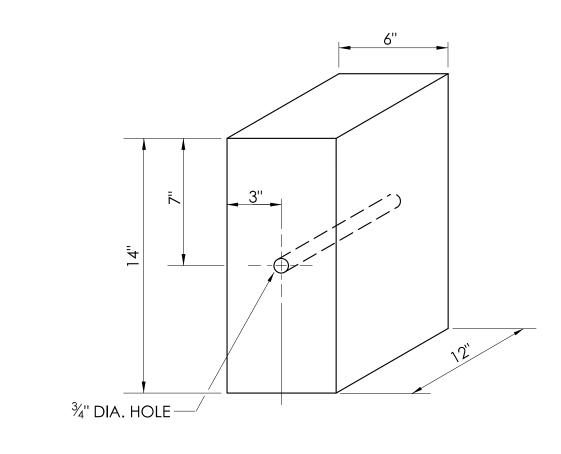
STANDARD SHEET TITLE:

STANDARD SHEET NO.:





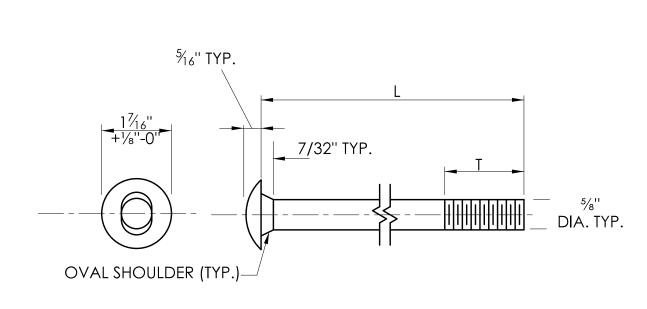
37 ½"



8" or 12" PLASTIC BLOCKOUT

 $\frac{3}{4}$ " DIA. HOLE

12" WOOD BLOCKOUT



DESIGNATOR

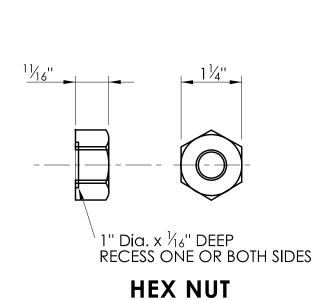
FBB02 FBB03

FBB04

BUTTONHEAD BOLT

37 ½"

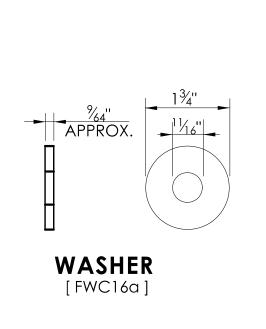
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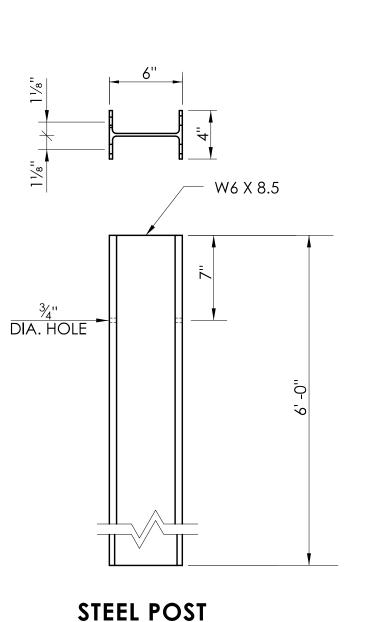


13" - 6"

TYPICAL W-BEAM RAIL ELEMENT

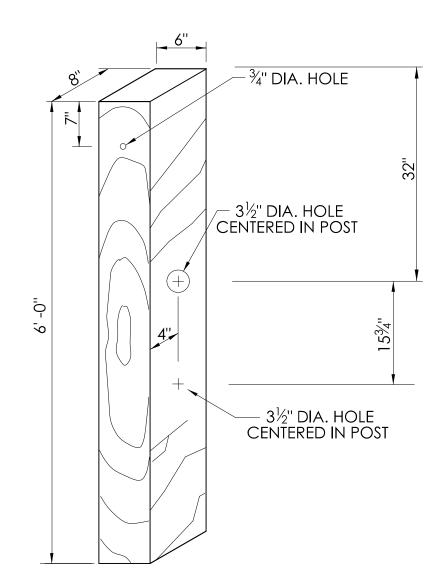
37 ½"





0

37 ½"

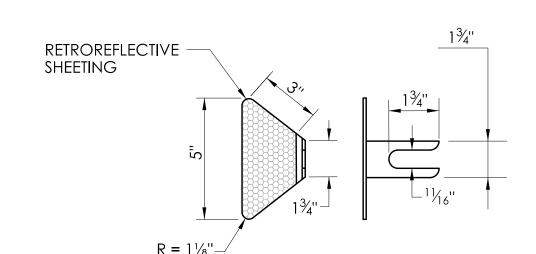


CONTROL RELEASE TIMBER (CRT) POST 6' - 0" LONG

STANDARD SHEET TITLE:

GENERAL NOTES:

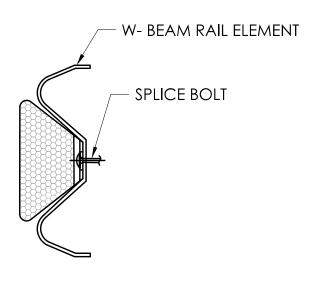
- 1. W6 x 9 POSTS MAY BE USED IN PLACE OF W6 x 8.5 POSTS.
- 2. W-BEAM GUIDERAIL SHALL USE CLASS A (12 GAUGE), TYPE II W-BEAM RAIL ELEMENTS.
- 3. SEVEN FOOT LONG STEEL POSTS (W6 X 8.5) ARE TO BE INSTALLED WHERE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES



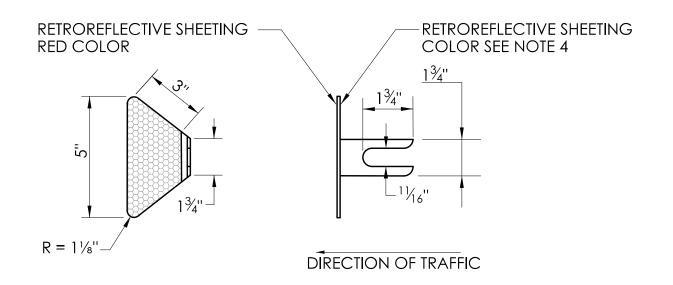
W-BEAM DELINEATOR

INSTALLATION NOTES:

- 1. INSTALL W-BEAM DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 8' FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE W-BEAM DELINEATORS SHALL BE INSTALLED ON ANY LENGTH OF GUIDERAIL.
- 2. THE SPACING OF W-BEAM DELINEATORS IS 50 FEET, INSTALLED AT RAIL SPLICE LOCATIONS. SPACING IS 25 FEET ON RADII LESS THAN 300 FEET.
- 3. NO W-BEAM DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
- 4. RETROREFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
- 5. FOR HIGHWAY OFF RAMP, INSTALL W-BEAM DOUBLE SIDED DELINEATORS ACCORDING TO INSTALLATION REQUIREMENTS STATED BELOW FOR W-BEAM DOUBLE SIDED DELINEATORS.



W-BEAM DELINEATOR INSTALLATION



W-BEAM DOUBLE SIDED DELINEATOR FOR HIGHWAY OFF RAMPS

INSTALLATION NOTES:

- 1. INSTALL W-BEAM DOUBLE SIDED DELINEATORS ON HIGHWAY OFF RAMP'S W-BEAM GUIDERAIL BETWEEN THE PAINTED TRAFFIC STOP LINE TO THE FARTHEST "WRONG WAY" SIGNS FROM THE INTERSECTION.
- 2. INSTALL THE W-BEAM DOUBLE SIDED DELINEATORS AT 6'-3" SPACING.
- 3. NO W-BEAM DOUBLE SIDED DELINEATORS ARE PERMITTED WITHIN 75 FEET OF THE IMPACT HEAD OF ANY TANGENTIAL OR FLARED IMPACT ATTENUATION SYSTEM.
- 4. RETROREFLECTIVE SHEETING COLOR SHALL BE RED ON BACKSIDE (NOT FACING NORMAL DIRECTION OF TRAFFIC) WITH FRONT SIDE HAVING WHITE EXCEPT ON THE LEFT SIDE OF RAMPS, WHERE IT SHALL BE YELLOW.

5/8" BUTTON HEAD BOLT(S) AND RECESSED NUT(S) NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING

INTENDED USE

POST BOLTS (8" BLOCK OUTS)
POST BOLTS (12" BLOCK OUTS)
POST BOLTS (2-8" BLOCK OUTS)

POST BOLTS (CRT WOOD POST SYSTEM)

IGNATURE BLOCK:

OFFICE OF ENGINEERING

2800 BERLIN TURNPIKE

NEWINGTON, CT 06111

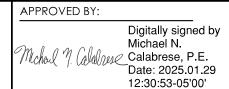
RAIL SPLICE BOLTS

RUB RAIL BOLTS

E: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.

NOT TO SCALE

Digitally signed by Leo Fontaine, P.E. Date: 2024.12.19 14:56:01-05'00'





6' - 0" LONG

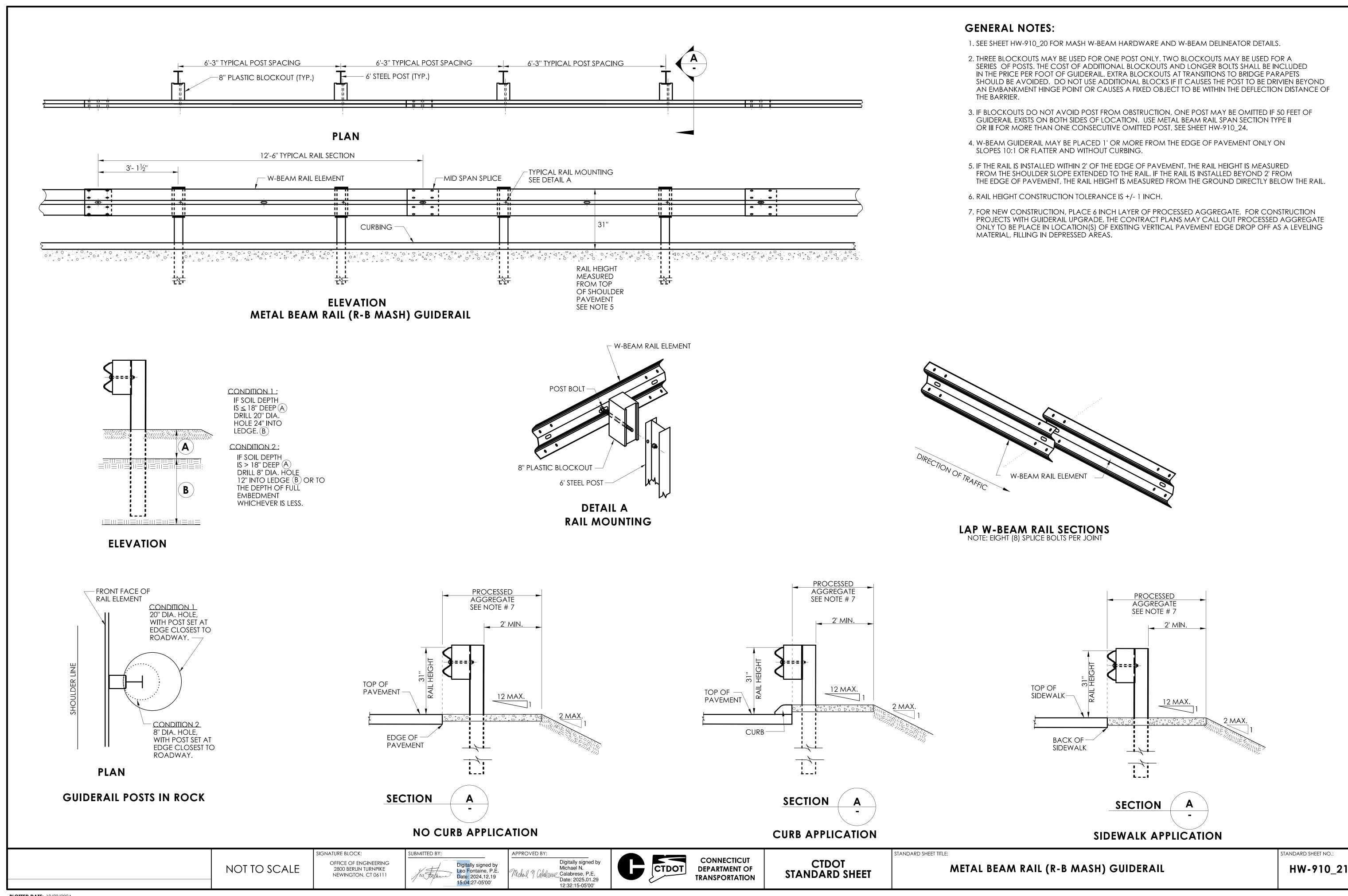
CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

CTDOT STANDARD SHEET MASH W-BEAM HARDWARE

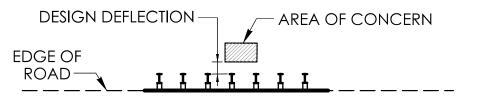
STANDARD SHEET NO.:

HW-910_20

 $12\frac{1}{4}$



- 1. SEE SHEET HW-910_20 FOR HARDWARE AND W-BEAM DELINEATOR DETAILS.
- 2. W-BEAM DELINEATOR MAY BE INSTALLED AT POST BOLT CONNECTION TO MAINTAIN APPROPRIATE DELINEATOR SPACING.



POST SPACING	<u> </u>	DESIGN DEFLECTION
STANDARD	(6' - 3")	4' - 3''
HALF POST	(3' - 1½'')	2' - 8''
QUARTER POST	(1' - 6 ³ ⁄ ₄ ")	1' - 10''
	TABLE 1	

PAY LIMIT OF METAL BEAM RAIL (R-B MASH) HALF POST SPACING

3' - 1½"

3' - 1½"

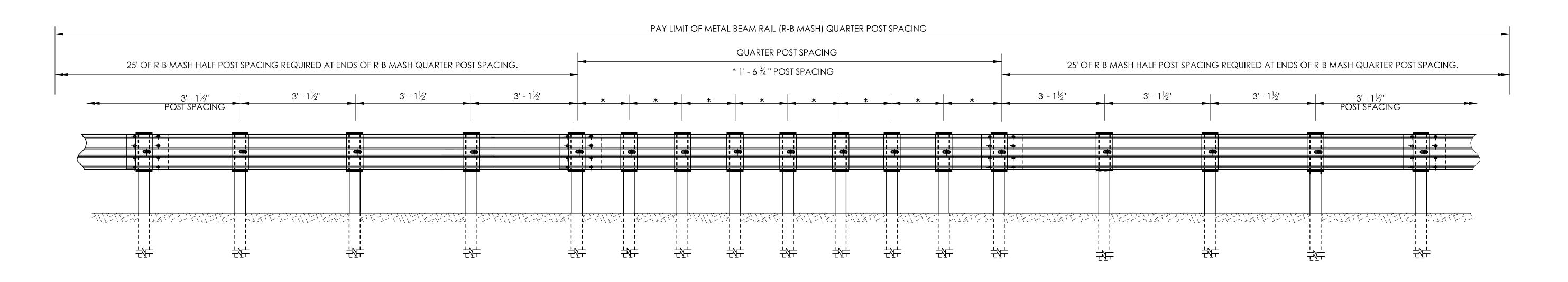
3' - 1½"

3' - 1½"

3' - 1½"

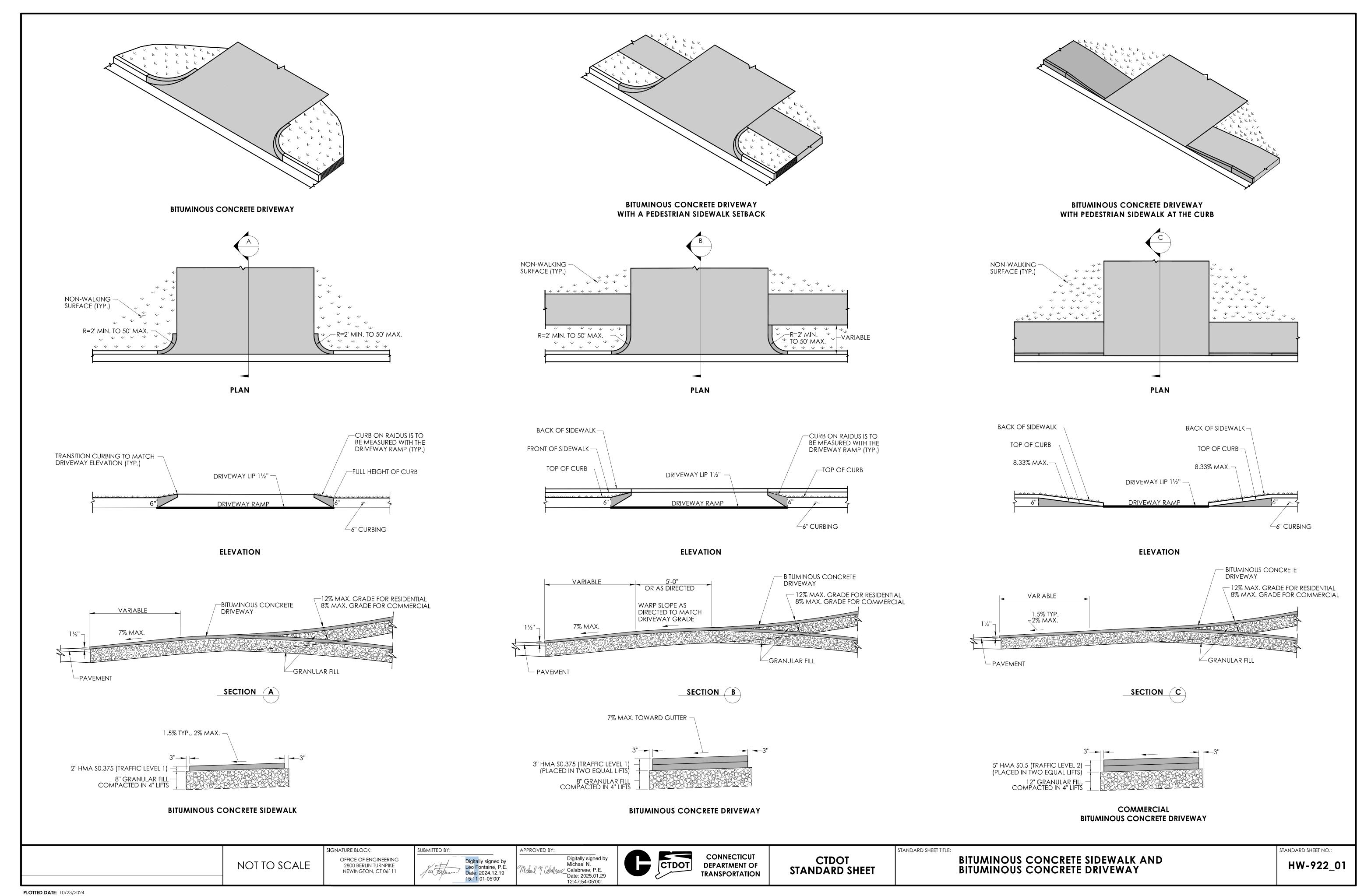
3' - 1½"

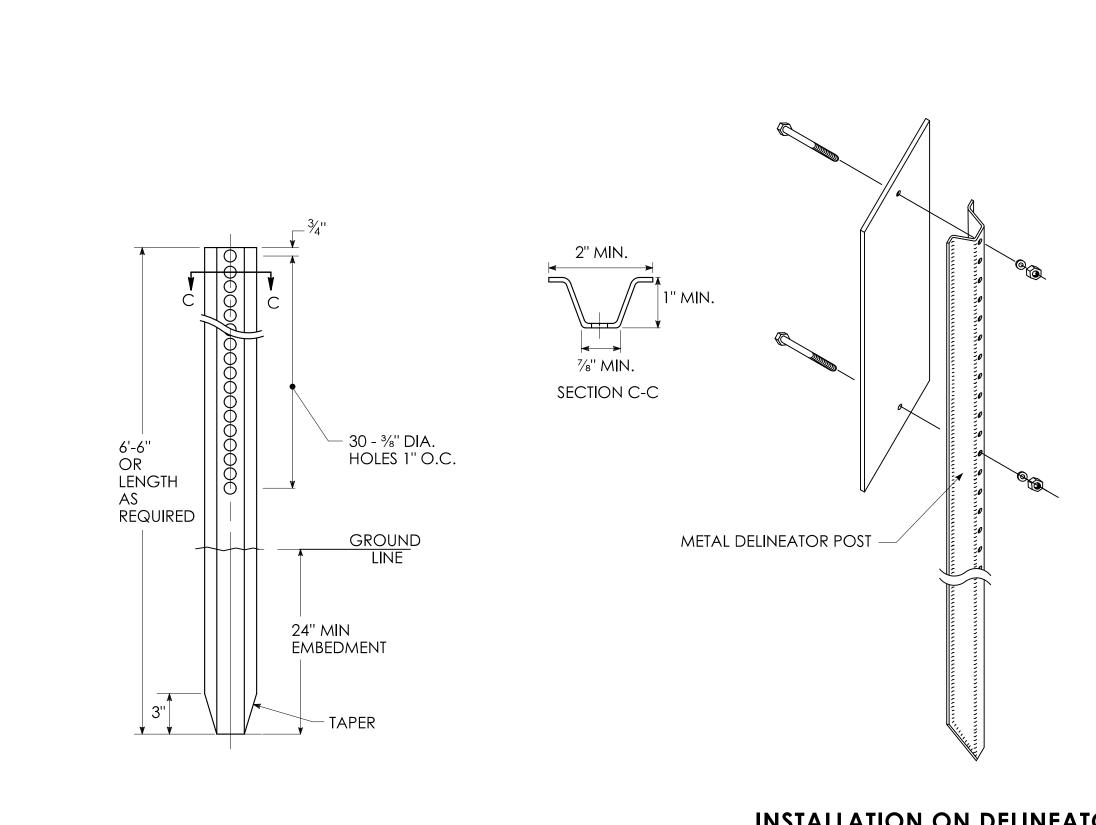
METAL BEAM RAIL (R-B MASH) HALF POST SPACING



METAL BEAM RAIL (R-B MASH) QUARTER POST SPACING

STANDARD SHEET TITLE:





- 3/8" DIA. HOLE (TYP.)

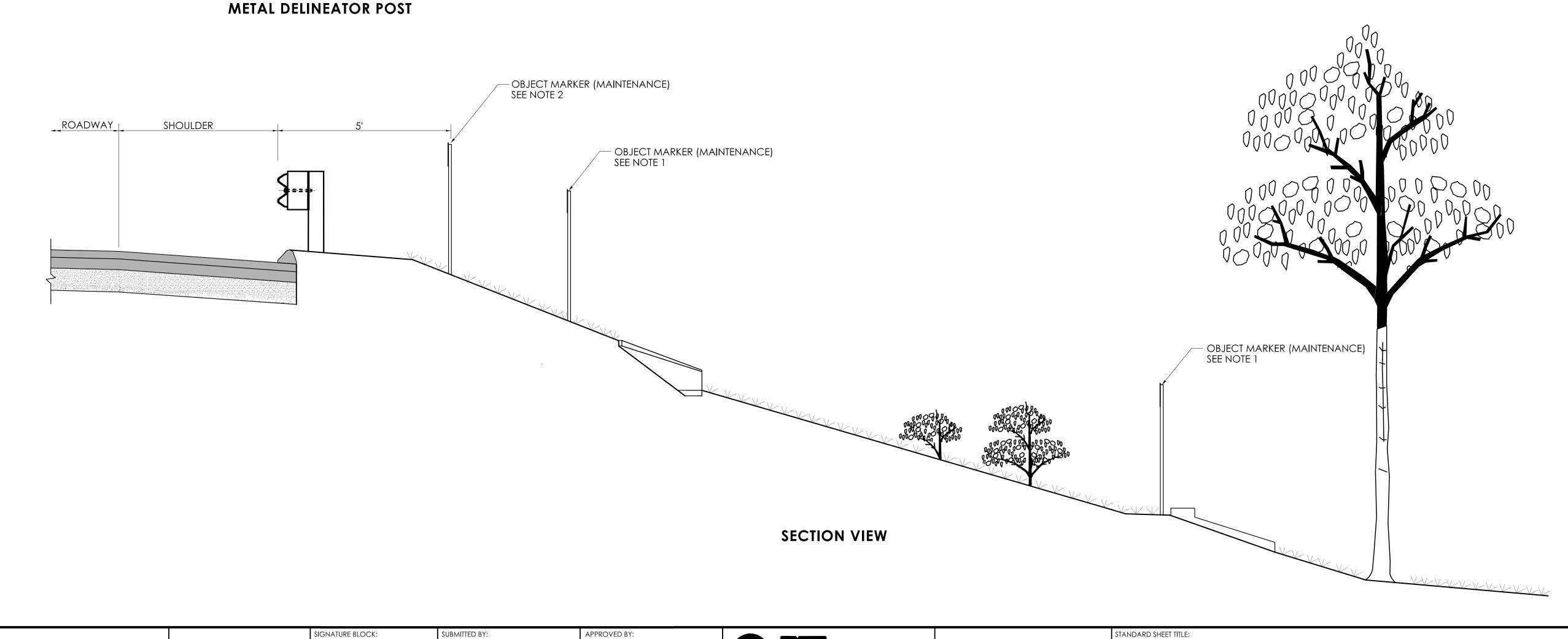
RETROREFLECTIVE SHEETING

(SEE NOTE #6)

OBJECT MARKER DETAIL

- OBJECT MARKER (MAINTENANCE) SHALL BE INSTALLED ADJACENT TO; END WALLS, DRAINAGE PIPE ENDS, UNDERDRAIN OUTLETS AND PAVED APRONS WITH THE MARKER FACING PARALLEL TO THE DIRECTION OF TRAFFIC.
- 2. SECOND OBJECT MARKER (MAINTENANCE) SHALL ONLY BE INSTALLED 5 FEET FROM THE EDGE OF ROADWAY WHEN THE OBJECT MARKER ADJACENT TO STRUCTURE IS GREATER THAN 15 FEET FROM THE EDGE OF THE ROADWAY.
- 3. OBJECT MARKER (MAINTENANCE) SHALL BE INSTALLED AT METAL BEAM GUIDERAIL ANCHORS AS SHOWN ON; HW-911_01 R-B END ANCHORAGE TYPE I AND II, HW-911_02 MD-B END ANCHORAGE TYPE I.
- 4. OBJECT MARKERS SHALL BE FASTENED WITH $\frac{5}{16}$ " STAINLESS STEEL HEX HEAD BOLTS (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.
- 5. METAL DELINEATOR POST SHALL BE 1.12 LBS/FT. ASTM A36 STEEL
- 6. OBJECT MARKER COMPOSITION SHALL BE 14 GA. (0.080") THICK SHEET ALUMINUM WITH YELLOW TYPE XI RETROREFLECTIVE SHEETING.
- 7. ALL OBJECT MARKERS (MANTENANCE) SHALL BE INSTALLED WITH THE BOTTOM OF THE OBJECT MARKER 4 FT ABOVE THE GROUND.

INSTALLATION ON DELINEATOR POSTS



CTDOT

Digitally signed by Michael N.

Michael N.

Calabrese, P.E.

Date: 2025.01.29
12:49:15-05'00'

Digitally signed by Leo Fontaine, P.E. Date: 2024.12.19 15:09:58-05'00'

OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

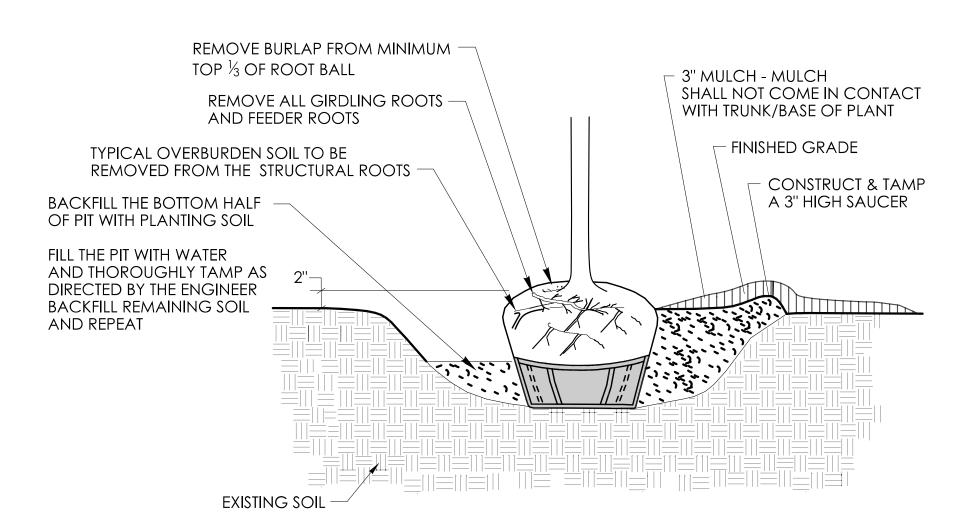
NOT TO SCALE

CONNECTICUT DEPARTMENT OF TRANSPORTATION

CTDOT STANDARD SHEET

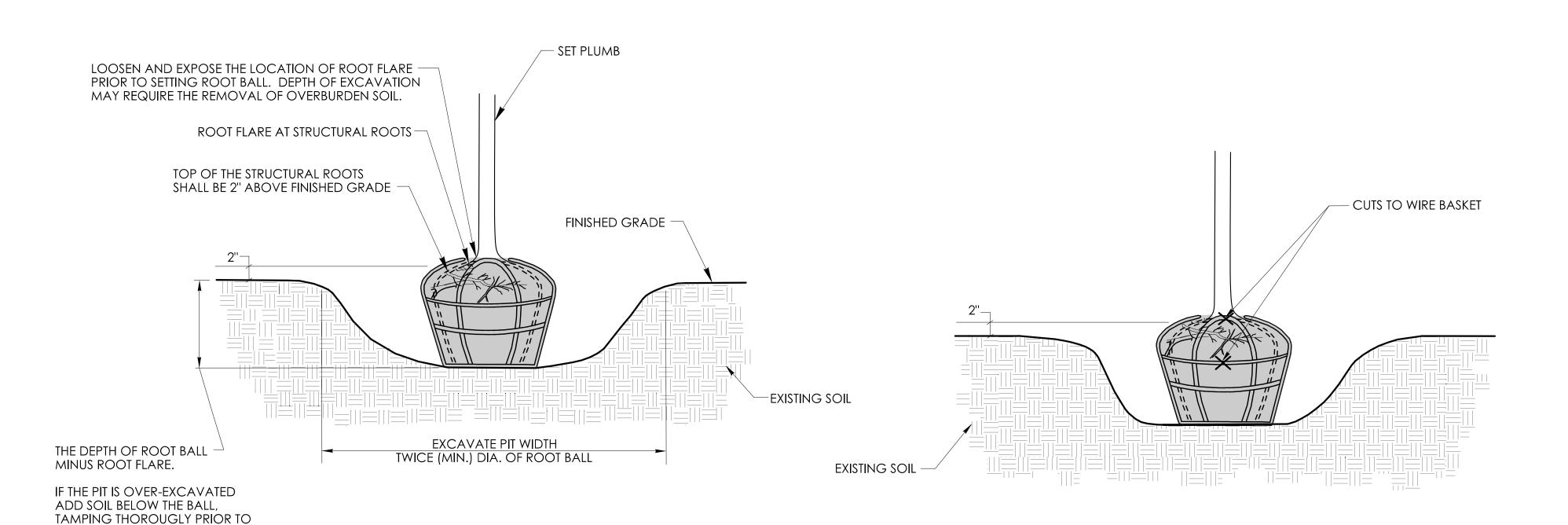
STANDARD SHEET NO.:

- 1. ALL EXTERIOR PACKAGING MATERIAL APPLIED IS LOCATED IN THE PIT EXCAVATION. CUT AND
- DEEP ENOUGH IN PIT TO COVER THE GRAFT TO PREVENT SPROUTING FROM THE ROOT STOCK.



BACKFILL AND MULCH FOR PLANTING

- TO PLANTS SHALL BE REMOVED AFTER THE PLANT REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP TWO-THIRDS OF THE ROOT BALL.
- 2. PLANT MALUS SPECIES (DECIDUOUS APPLE TREES OR SHRUBS)



PIT EXCAVATION AND **SETTING OF PLANTING**

FENCE POST

ROOT FLARE SHALL BE

3" MULCH-

VISIBLE AND LEVEL

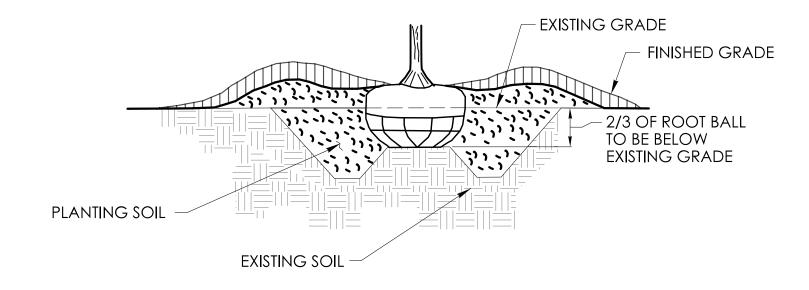
FINISHED GRADE

EXISTING SOIL

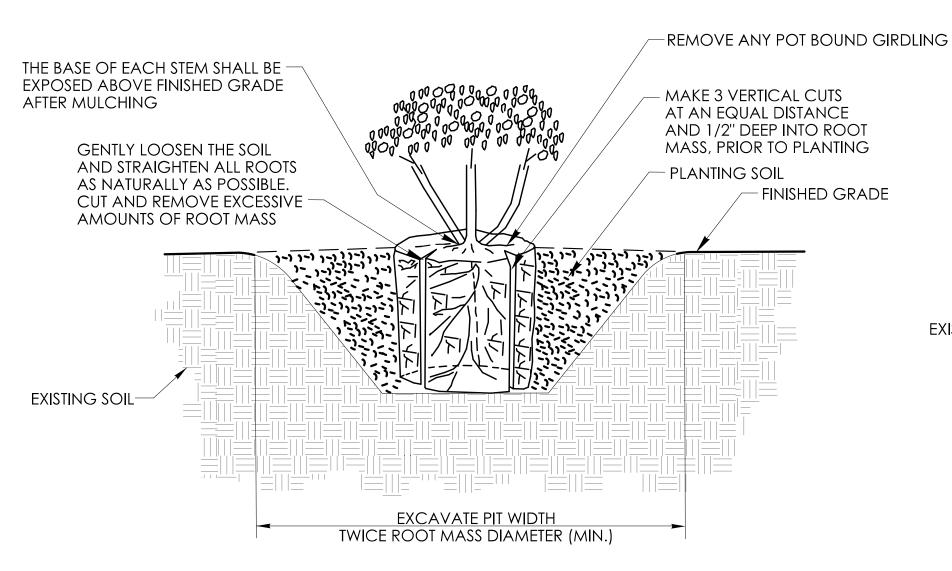
PLANTING SOIL

WIRE BASKET REMOVAL

NOTE: IF WIRE BASKETS ARE USED, THE CONTRACTOR SHALL CUT ALL OF THE HORIZONTAL WIRES IN THE TOP $\frac{2}{3}$ OF THE ROOT BALL AND BEND DOWN OR REMOVE THE TOP $\frac{1}{3}$ OF THE WIRE BASKET



HEAVY CLAY PLANTINGS



CONTAINER GROWN PLANTING

PLANTING IS SET PLUMB, NOT FINISHED GRADE PERPENDICULAR TO THE SLOPE -ROOT FLARE −3" MULCH -PLANTING SOIL BERM DOWNHILL SIDE ONLY -COMPACTED EXCAVATED SOIL FROM THE PIT EXISTING SOIL 6" MIN.→ **EXCAVATE PIT WIDTH** TWICE (MIN.) DIA. OF ROOT BALL

VINE PLANTING

TWICE ROOT MASS DIAMETER

(MIN.)

SLOPE PLANTING

NOT TO SCALE

SUBMITTED BY: GNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

- EXCAVATE PIT

TO FENCE LINE

Digitally signed by Leo Fontaine, P.E. Date: 2024.12.19 15:09:41-05'00'

APPROVED BY: Digitally signed by Michael N. Michael M. Calabrese, P.E. Date: 2025.01.29 22:52:12-05'00'



CONNECTICUT **DEPARTMENT OF TRANSPORTATION**

CTDOT STANDARD SHEET

LANDSCAPE PLANTING

STANDARD SHEET TITLE:

HW-949_01a

STANDARD SHEET NO.:

SETTING THE TREE IN THE PIT.