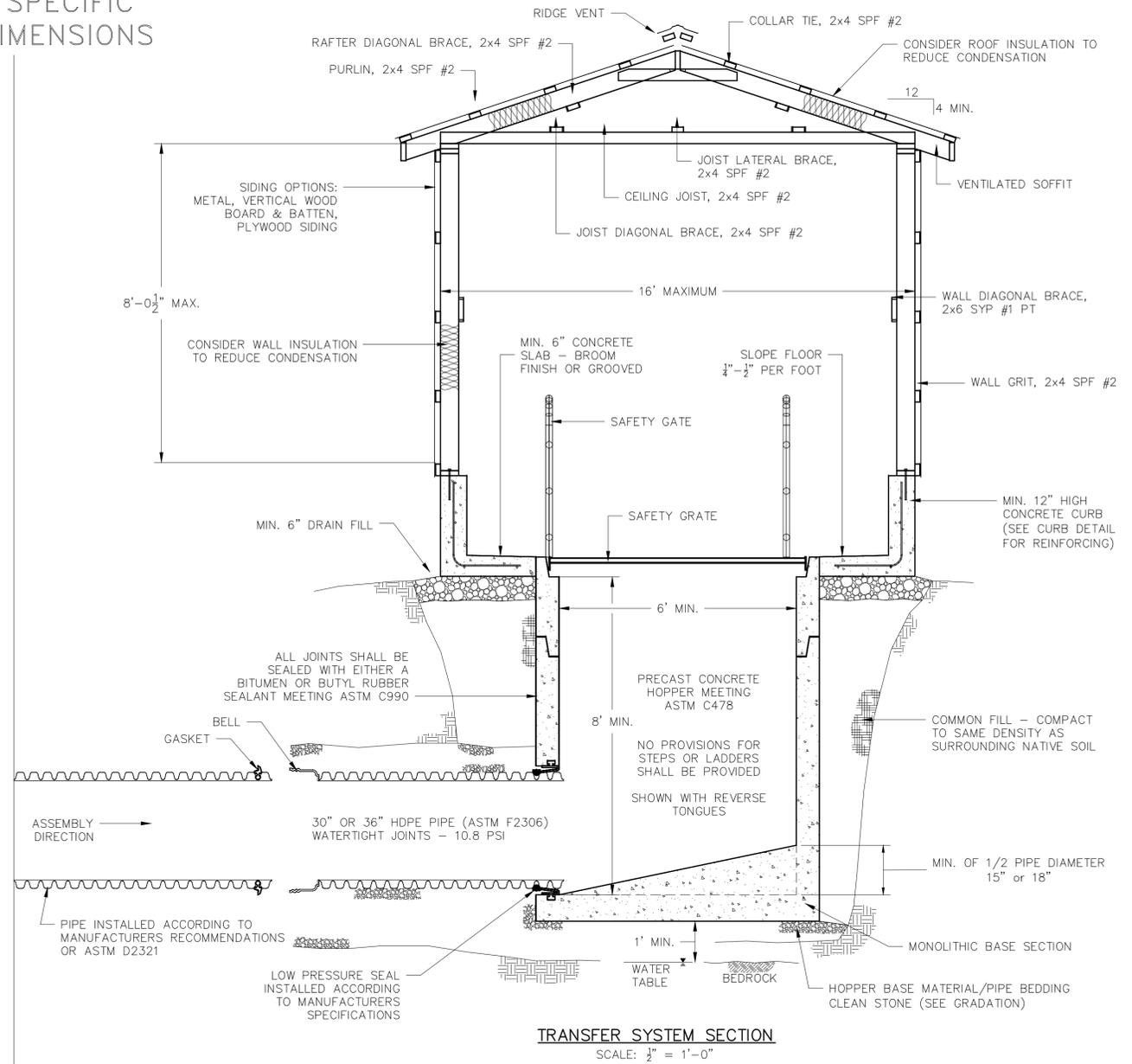
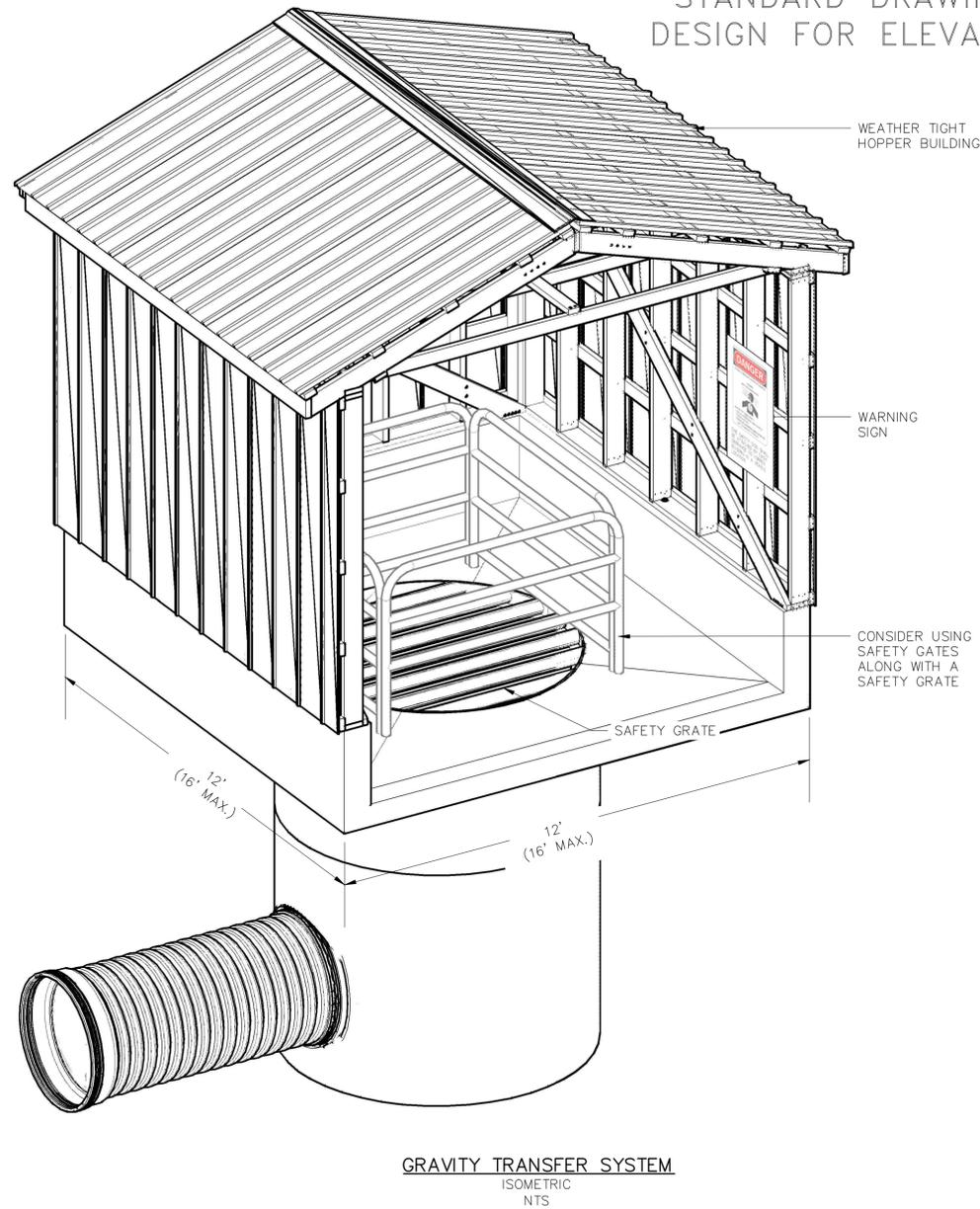


STANDARD DRAWING—SEE SITE SPECIFIC DESIGN FOR ELEVATIONS AND DIMENSIONS



CONSTRUCTION NOTES

- ALL ITEMS SHALL BE CONSTRUCTED TO THE DIMENSIONS AND ELEVATIONS SHOWN ON THE DRAWINGS.
- ALL WORK SHALL BE DONE IN ACCORDANCE TO THE PLANS AND SPECIFICATIONS. ANY CHANGES SHALL BE APPROVED BY THE ON SITE NRCS REPRESENTATIVE.
- ALL PERMITS, EASEMENTS AND RIGHTS OF WAY ARE THE RESPONSIBILITY OF THE LANDOWNER.
- IT IS THE EXCAVATION CONTRACTORS RESPONSIBILITY TO CALL "DIG SAFE" AND TO COMPLY WITH ALL VERMONT LAWS REGARDING THE LOCATION AND WORK AROUND UTILITIES.
- IT IS THE EXCAVATION CONTRACTORS RESPONSIBILITY TO FOLLOW ALL VOSHA/OSHA REGULATIONS, INCLUDING EXCAVATION OF TRENCHES.
- CONCRETE HOPPER SHALL BE SET TO THE ELEVATIONS SHOWN ON THE DRAWINGS ON A MINIMUM OF 6" OF STONE BASE.
- PIPE TRENCH AND BEDDING SHALL BE INSTALLED TO THE ELEVATIONS SHOWN, WITHIN +/- 2" EVERY 20'.
- HAUNCH MATERIAL SHALL BE WORKED UNDER THE PIPE WITH HAND TOOLS, AS REQUIRED BY PIPE MANUFACTURER. SEE GRADATION SHEET 2 OF 3
- INITIAL PIPE BACKFILL SHALL BE INSTALLED TO A MINIMUM OF 6" OVER THE TOP OF THE PIPE. SEE GRADATION SHEET 2 OF 3.
- REMAINING TRENCH BACKFILL MAY BE COMMON FILL, INSTALLED WITH MODERATE COMPACTION TO PREVENT EXCESSIVE SETTLEMENT.
- ALL FILL THAT SHALL HAVE CONCRETE PLACED ABOVE IT SHALL BE COMPACTED TO A DENSITY EQUIVALENT TO THAT OF THE SURROUNDING INPLACE EARTH MATERIAL.
- ALL CONCRETE SHALL BE 3000 PSI, PLACED AT A 3"-5" SLUMP. ALL CAST IN PLACE CONCRETE SHALL BE INSTALLED ACCORDING TO VT NRCS CONSTRUCTION SPECIFICATION #31.
- A CONCRETE HEADWALL SHALL BE INSTALLED AT THE OUTLET OF THE PIPE, AS SHOWN. SEE SHEET 2 OF 3.
- A NRCS APPROVED SAFETY GRATE AND/OR RAIL SHALL BE CONSTRUCTED OF DURABLE MATERIALS AND BE IN PLACE AT ALL TIMES.
- A MINIMUM OF ONE SAFETY SIGN SHALL BE POSTED NEAR ENOUGH TO THE HOPPER SO THAT IT IS EASILY VISIBLE.
- A WEATHER TIGHT HOPPER BUILDING SHALL BE CONSTRUCTED AS SHOWN. ALL EXTERIOR WOOD SHALL BE TREATED ACCORDING TO VT NRCS CONSTRUCTION SPECIFICATION #48.
- ALL WOOD CONNECTIONS SHALL BE AS SHOWN. IF SPLITTING OCCURS WITH NAILS, THEN PREBORED HOLES UP TO 75% OF THE NAIL DIAMETER SHALL BE REQUIRED.
- THE HOPPER BUILDING SHALL HAVE A VENTILATED RIDGE AND SOFFIT. ADDITIONAL VENTILATION MAYBE REQUIRED TO VENT HARMFUL GASES FROM THE BUILDING.
- ALL EXPOSED AREA SHALL BE SEEDED, FERTILIZED & MULCHED ACCORDING TO CONSTRUCTION SPECIFICATION #52.

FASTENERS

- BOLTS, LAGS $f_u = 45,000$ PSI MIN. (ANSI/ASME B18.2.1) ASTM A307 GRADE A OR SAE J429 GRADE 1
 - ANCHOR BOLTS MIN. $f_u = 36$ KSI. HOT DIPPED ASTM F2329 ASTM F1554
 - RING SHANKED NAILS $f_u = 115,000$ PSI MIN. ASTM F1667-05 FOR ENGINEERED CONSTRUCTION
 - COMMON NAILS $f_u = 90,000$ PSI MIN. ASTM F1667-05 FOR ENGINEERED CONSTRUCTION
- ALL NAILS SHALL BE HOT DIP GALVANIZED — MEETING ASTM A153-09 CLASS D
ALL BOLTS, LAGS, NUTS & WASHERS — MEETING ASTM A153-09 CLASS C (OR ASTM F2329-05)

STEEL SPECIFICATION — GRATE

PLATE — ASTM A36 FY 36 KSI
PIPE — ASTM A53 GR. B

BILL OF MATERIALS

ITEM #	ITEM	QUANTITY	UNIT	CONSTRUCTION SPECIFICATION
HOPPER				
1	EXCAVATING - HOPPER	75	B.C.Y.	1.5,11
2	CRUSHED OR SCREENED STONE - HOPPER BASE	5	C.Y.	1.5,11
3	HOPPER, PRECAST CONCRETE, 6' DIA. X 8' DEEP, W/ LOW PRESSURE SEAL	1	EA.	31
4	PIPE, HDPE 30" WT MANHOLE ADAPTER	1	EA.	1,5,11,41
5	PIPE, HDPE 30" WATER TIGHT - INSTALLED W/ CLEAN STONE	0	L.F.	1,5,11,41
6	CONCRETE HEADWALL - 5'X5'X1'	1	C.Y.	31
7	BACKFILL - HOPPER, COMMON FILL, COMPACTED	60	C.Y.	1,5,11
8	BANK RUN GRAVEL - HOPPER SLAB DRAINFILL	8	C.Y.	1,5,11
9	SLAB, CONCRETE, 6", 3000PSI, CURING CMPD.	3	C.Y.	31
10	CURB, CONCRETE, 6"X24"H, 3000PSI, #4 @ 12" E.W., CURING	36	L.F.	31
11	SAFETY GRATE-6' DIAM., 4" STEEL PIPE	1	EA.	41,46
12	1/2" X 8" CONCRETE ANCHOR BOLTS, ASTM F1554	9	EA.	48
HOPPER BLDG 12'x12'				
13	WOOD SILL PLATE - 2X6X12 PT SYP #1	3	EA.	48
14	WOOD WALL STUDS - 2X6X8 SPF #1 OR #2	23	EA.	48
15	WOOD TOP PLATE - 2X6X12 SPF #1 OR #2	6	EA.	48
16	WOOD WALL BRACES - 2X6X16 SYP #1	3	EA.	48
17	WOOD WALL GIRTS - 2X4X12 SPF #1 OR #2	15	EA.	48
18	WOOD CEILING JOIST - 2X4X12 SPF #1 OR #2	7	EA.	48
19	WOOD CEILING JOIST BRACING - 2X4X12 SPF #1 OR #2	1	EA.	48
20	WOOD CEILING JOIST BRACING - 2X4X14 SPF #1 OR #2	2	EA.	48
21	WOOD RAFTERS - 2X6X8 SPF	14	EA.	48
22	RAFTER TO PLATE HOLDDOWNS	14	EA.	48
23	WOOD RAFTER BRACING - 2X4X14 SPF	2	EA.	48
24	WOOD RAFTER COLLAR TIES - 2X4X3 SPF	7	EA.	48
25	WOOD RIDGE BOARD - 2X6X12 SPF	1	EA.	48
26	SIDING (3 SIDES)	288	S.F.	46,48
27	ROOFING	192	S.F.	46,48
28	SAFETY SIGNS, STRUCTURE OR HOPPER	1	EA.	50

NO.	DATE	DESCRIPTION	BY
1	3-25-15	INITIAL DRAWING	TKJ
2	4-3-15	CORRECTIONS	TKJ
3	12-30-15	REVERSE TONGUE, OSHA TRENCH	TKJ

Date 3/15
Designed TATE, JEFFREY
Drawn TATE, JEFFREY
Checked JAKE, CLOUGH
Approved by 4-6-15

United States Department of Agriculture
Natural Resources Conservation Service

HAZARD CLASS LOW
JOB CLASS IV

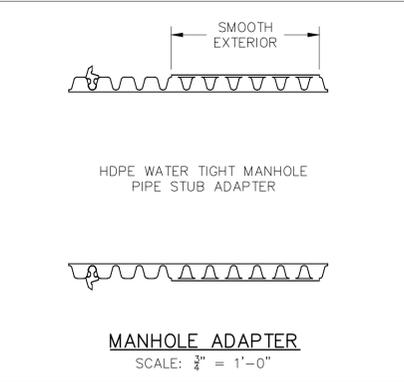
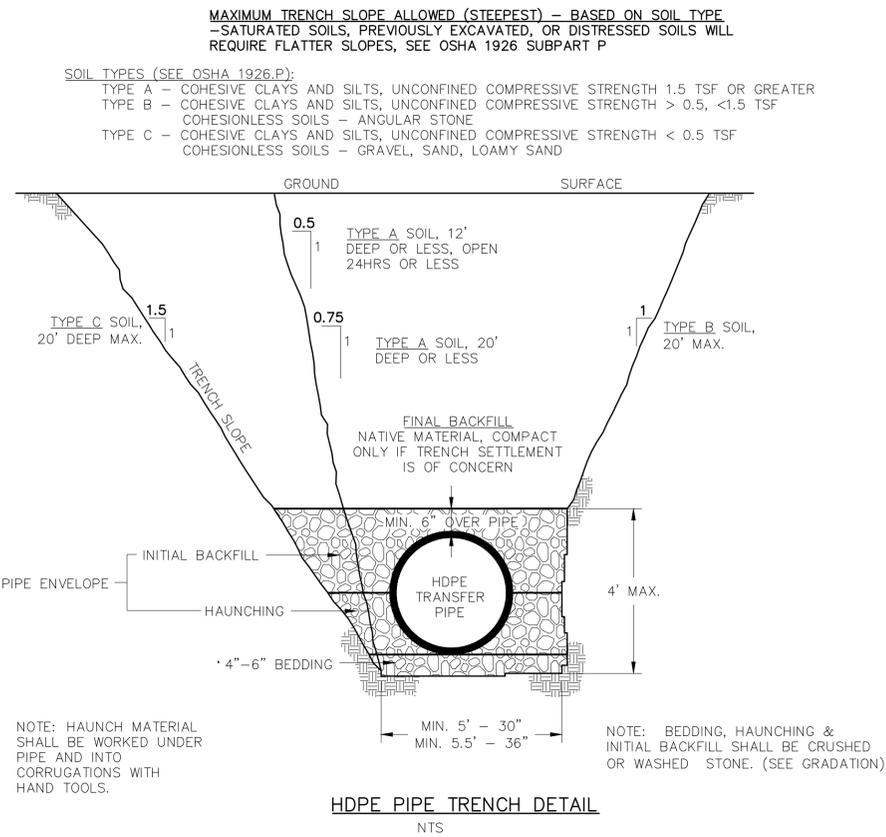
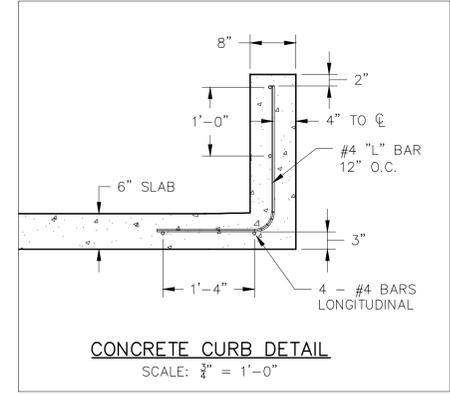
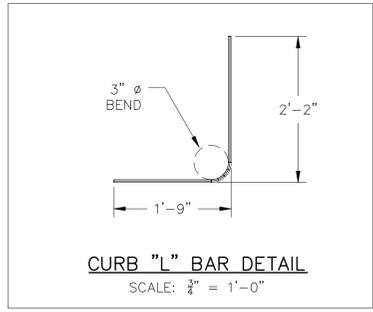
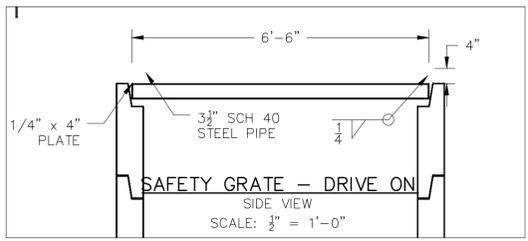
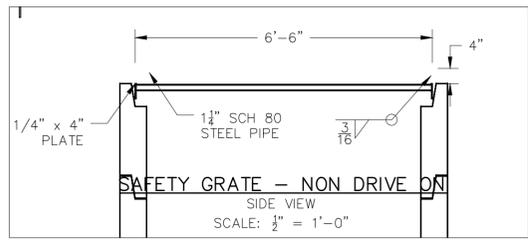
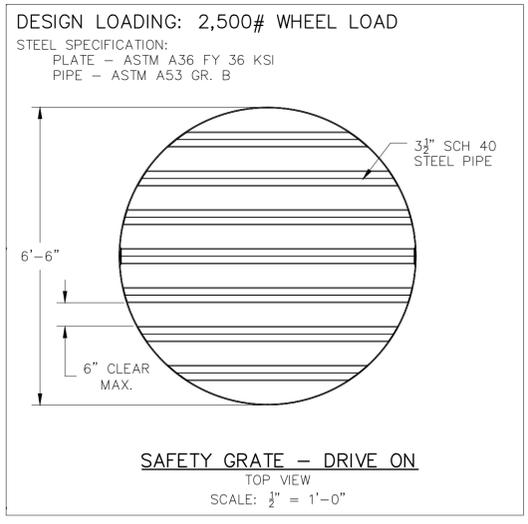
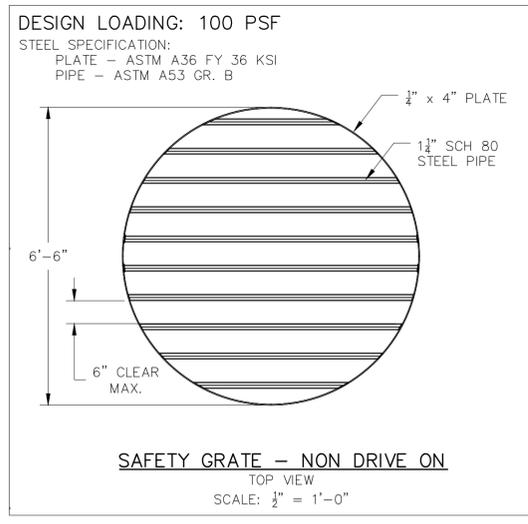
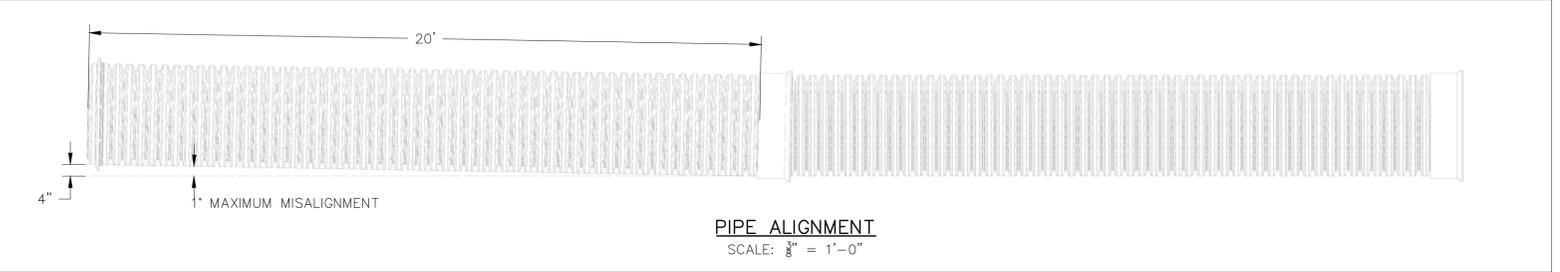
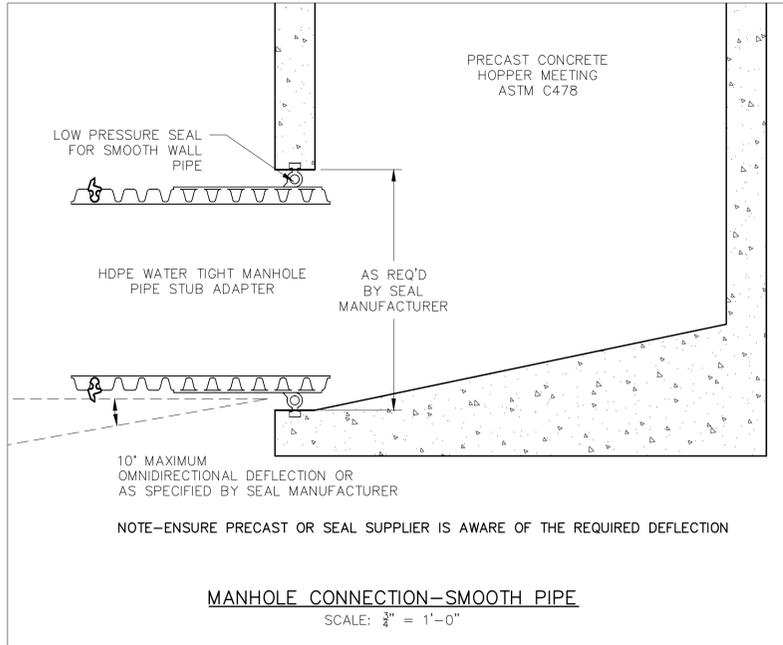
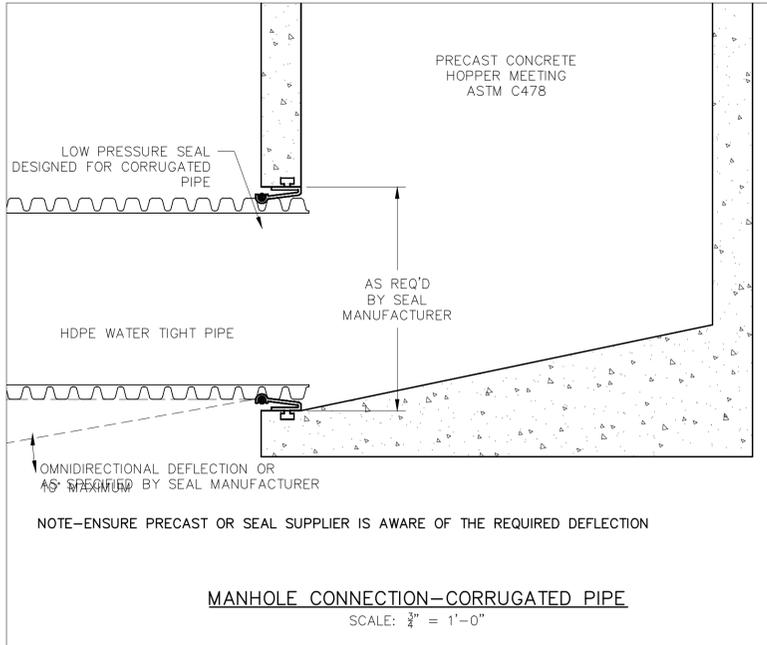
VERMONT

VERMONT STANDARD DRAWING
GRAVITY WASTE TRANSFER
HOPPER WITH SIDE OUTLET

File Name

Drawing Name
VT-HOPSIDEOUT-STD

STANDARD DRAWING—SEE SITE SPECIFIC DESIGN FOR ELEVATIONS AND DIMENSIONS

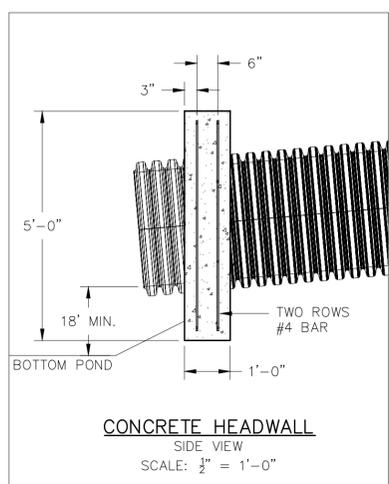
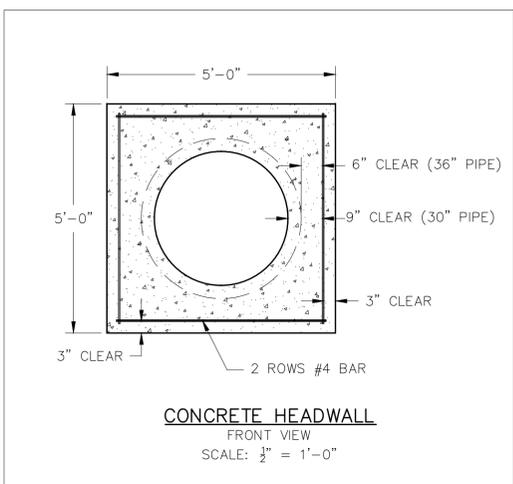
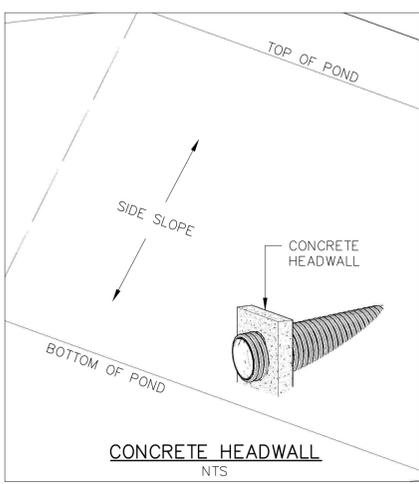


PIPE BEDDING & ENVELOPE GRADATION

SIEVE SIZE	% PASSING
1"	100
3/4"	90 - 100
3/8"	20 - 55
#4 (.187")	0 - 10
#16 (.0465")	0 - 5

DRAINFILL GRADATION

SIEVE SIZE	% PASSING
4"	100
#4 (.187")	20 - 60
#100 (.0984")	0 - 12
#200 (.00295")	0 - 6



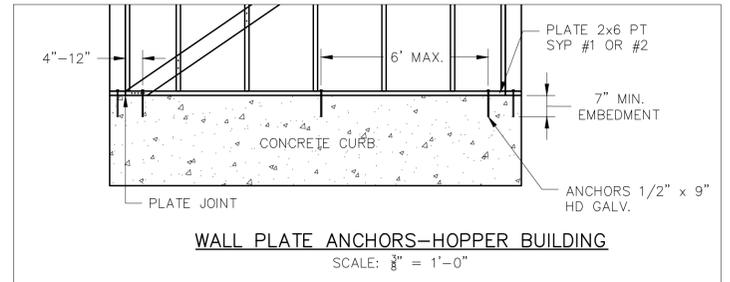
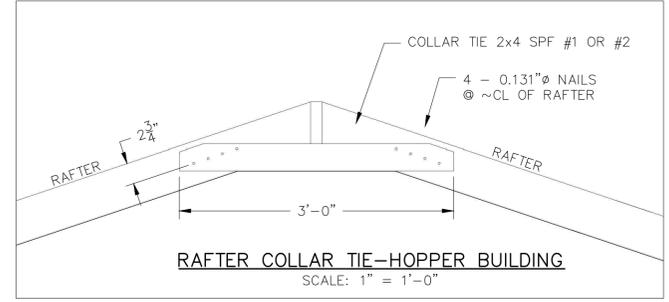
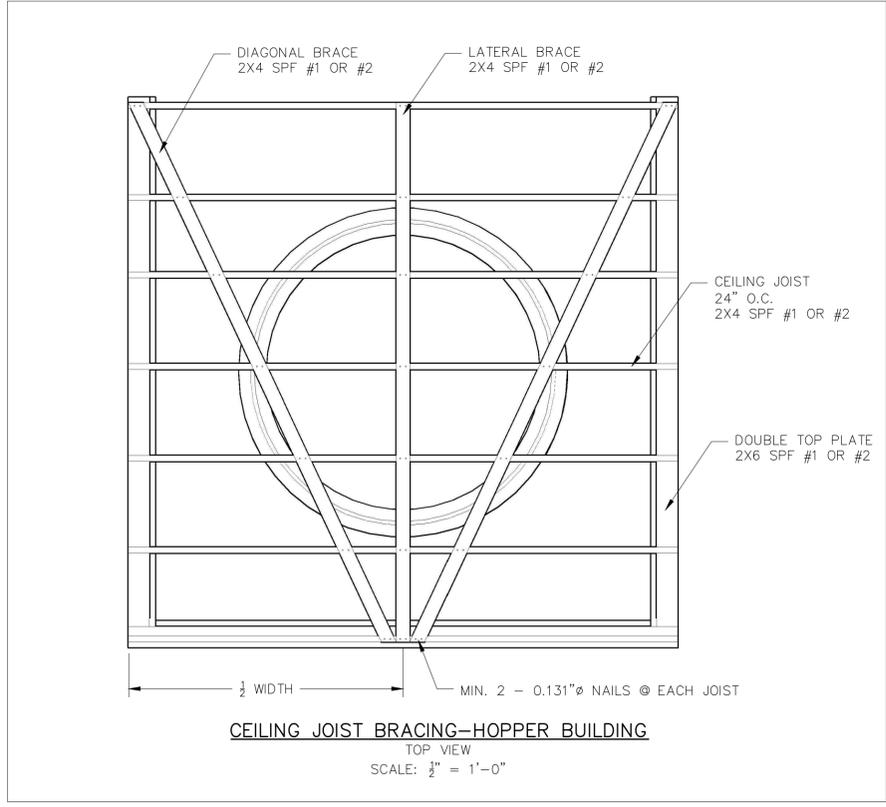
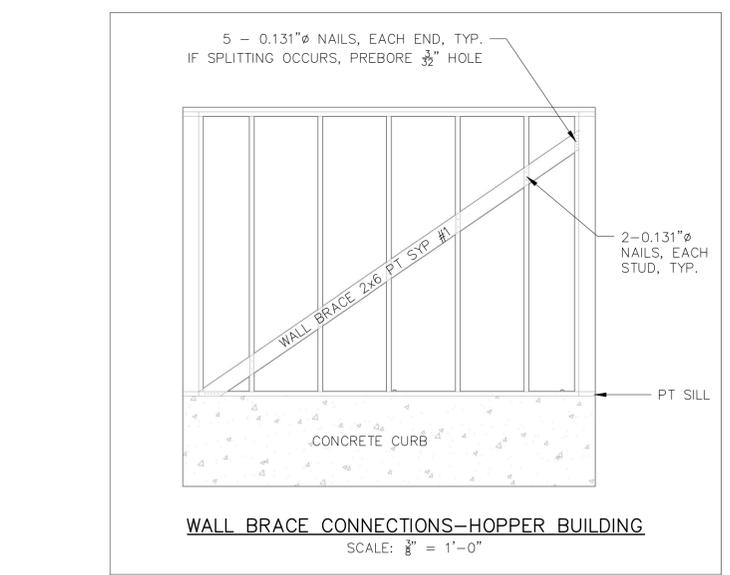
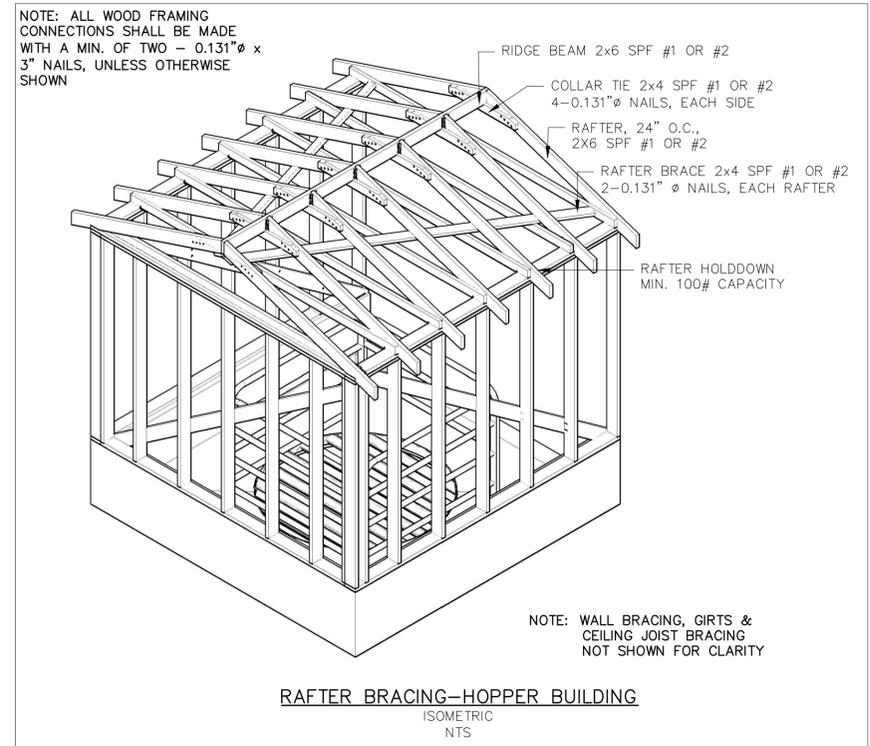
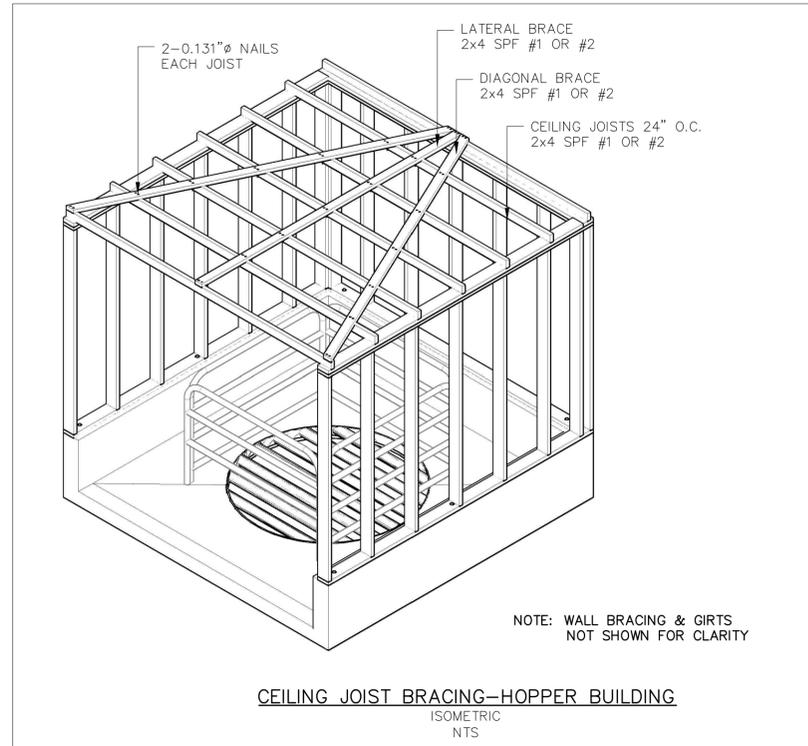
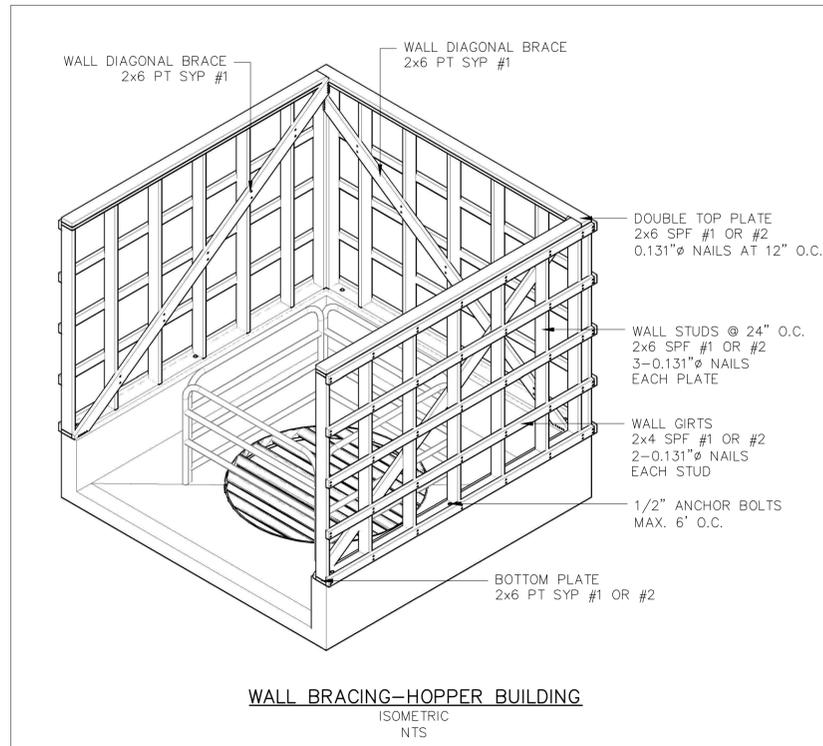
Date: 3/15
Designed: TATE JEFFREY
Drawn: TATE JEFFREY
Checked: JAKE CLOUGH
Approved by: [Signature]

United States Department of Agriculture
USDA
Natural Resources Conservation Service

HAZARD CLASS: LOW
JOB CLASS: IV

VERMONT STANDARD DRAWING
GRAVITY WASTE TRANSFER
HOPPER WITH SIDE OUTLET

File Name: VT-HOPSIDEOUT-STD
Drawing Name: VT-HOPSIDEOUT-STD
Sheet 2 of 3



Date 3/15
Designed TATE JEFFREY
Drawn TATE JEFFREY
Checked JAKE CLOUGH
Approved by 4-1-15
4-6-15

United States Department of Agriculture
Natural Resources Conservation Service
USDA

HAZARD CLASS LOW
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VERMONT STANDARD DRAWING
GRAVITY WASTE TRANSFER
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File Name
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Sheet 3 of 3