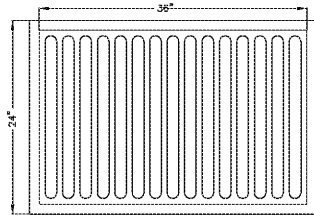
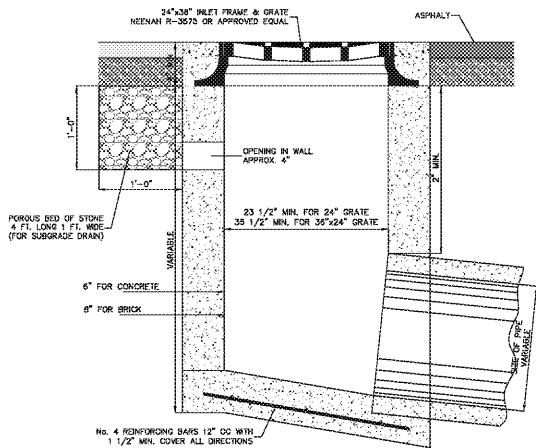


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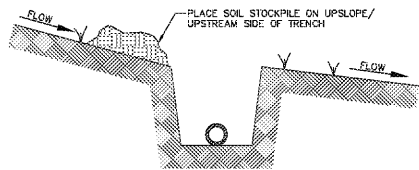
PLAN OF CAST IRON FRAME  
NEENAH R-3575

**NOTES:**

- FOR CONSTRUCTION OF THE DROP INLET WALLS EITHER BRICK MASONRY OR CLASS 3000 CONCRETE MAY BE USED. FOR CONCRETE THE WALLS ARE TO BE 6" THICK WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. FOR BRICK THE WALLS ARE TO BE 8" THICK.
- THE BOTTOM SLAB OF THE BASIN SHALL BE A MINIMUM OF 6 IN. THICK CLASS 3000 CONCRETE WITH A REINFORCING STEEL AREA OF 0.20 SQ. INCH PER FT. WIRE MESH MAY BE USED IN LIEU OF STEEL BARS PROVIDED A MINIMUM OF 0.20 SQ. IN. PER FT. IS MET.
- MORTAR SHALL BE TYPE S OR M.
- IF DESIRED THESE ITEMS MAY BE PRECAST PRIOR TO INSTALLATION IN LIEU OF BEING CAST IN PLACE. THE USE OF PRECAST UNITS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF OBTAINING SATISFACTORY INSTALLATIONS. SEE STANDARD DRAWINGS FOR PRECAST CONCRETE DRAINAGE BOX FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- REINFORCING STEEL SHALL BE DEFORMED AND SHALL CONFORM TO AASHTO M 31, GRADE 60. WIRE MESH SHALL CONFORM TO AASHTO M 55 AND M 221.
- IF STRUCTURE DEPTH EXCEEDS 4'-6", METAL STEPS ARE TO BE PLACED ON WALL. SEE STEP STANDARD DRAWING 719-15.
- CASTING SHALL CONFORM TO AASHTO M 105, CLASS 358 AND THE ALTERNATE LOAD TEST OF AASHTO M 309. CASTINGS SHALL ALSO MEET THE LOADING REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION).
- (A) STEEL GRATES AND FRAME MAY BE USED IN LIEU OF CAST IRON AS LONG AS THE LOADING AND HYDRAULIC REQUIREMENTS ARE MET, AND ARE ON THE DEPARTMENT'S LIST OF APPROVED SUPPLIERS.  
(B) STEEL GRATES SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M 111.  
(C) STEEL GRATES AND FRAMES SHALL BE CONSIDERED TO BE INTERCHANGEABLE WITH EACH PIECE OF THE CAST IRON GRATE AND FRAME SHOWN. MUST HAVE A POSITIVE MEANS TO RETAIN THE GRATE IN THE FRAME.  
(D) STRENGTH REQUIREMENTS OF STEEL GRATES AND FRAMES MUST MEET FEDERAL SPECIFICATION RR-F-621 (LATEST EDITION).  
(E) MANUFACTURERS DESIRING TO BE PLACED ON THE DEPARTMENT'S APPROVAL SHEETS SHOULD CONTACT THE RESEARCH AND MATERIALS ENGINEER FOR PROCEDURES.

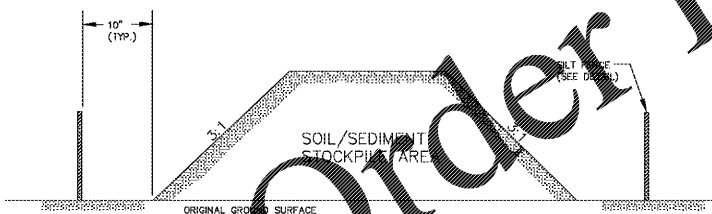
24"x36" DROP INLET DETAIL

NOT TO SCALE



TYPICAL TRENCH EXCAVATION STOCKPILE

NOT TO SCALE

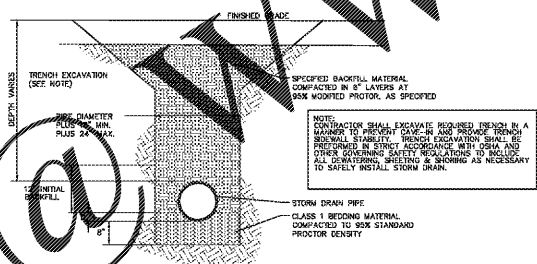


**NOTES:**

- SILT FENCE TO EXTEND AROUND ENTIRE PERIMETER OF STOCKPILE, OR IF STOCKPILE AREA IS LOCATED ON/NEAR A SLOPE THE SILT FENCE IS TO EXTEND ALONG CONTOURS OF THE DOWN-GRADIENT AREA.
- IF STOCKPILE IS TO REMAIN FOR MORE THAN 14 DAYS, TEMPORARY STABILIZATION MEASURES MUST BE IMPLEMENTED.
- SILT FENCE SHALL BE MAINTAINED UNTIL STOCKPILE AREA HAS EITHER BEEN REMOVED OR PERMANENTLY STABILIZED.
- THE KEY TO FUNCTIONAL TEMPORARY STOCKPILE AREAS IS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.

TEMPORARY STOCKPILE AREA DETAIL

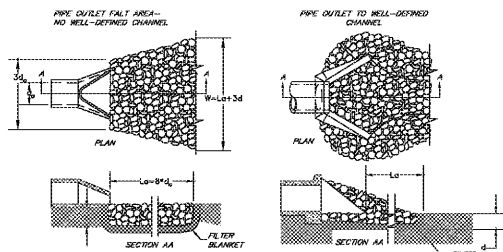
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STORM DRAINAGE TRENCH

NOT TO SCALE

PIPE DIA. (IN.)	# PIPES	J <sub>1/2</sub> (IN.)	L <sub>0</sub> (IN.)	W (IN.)	H (IN.)
15"	1	3.75"	7.5"	11.25"	1.25"

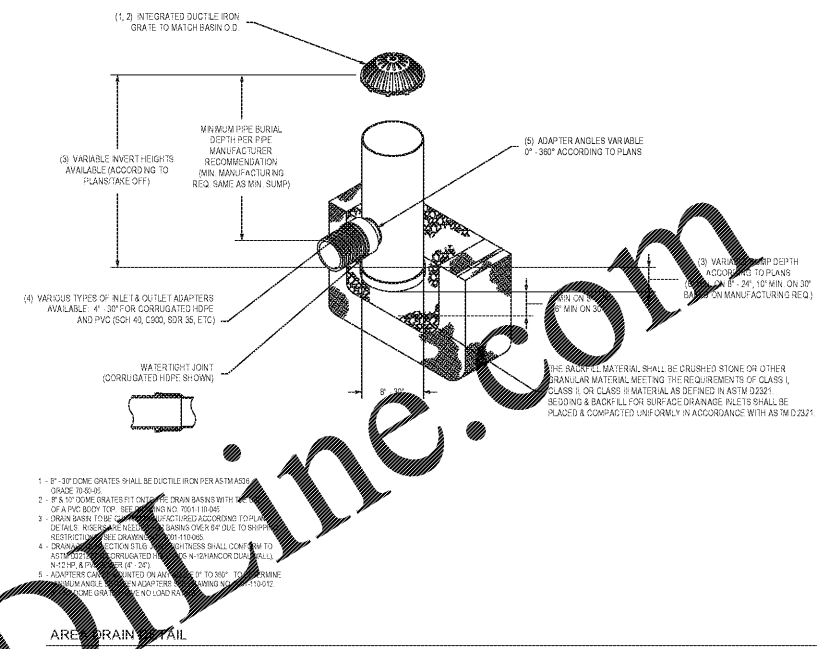


**NOTES:**

- L<sub>0</sub> IS THE LENGTH OF THE RIPRAP APRON.
- L<sub>1</sub> IS 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6'.
- IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
- A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

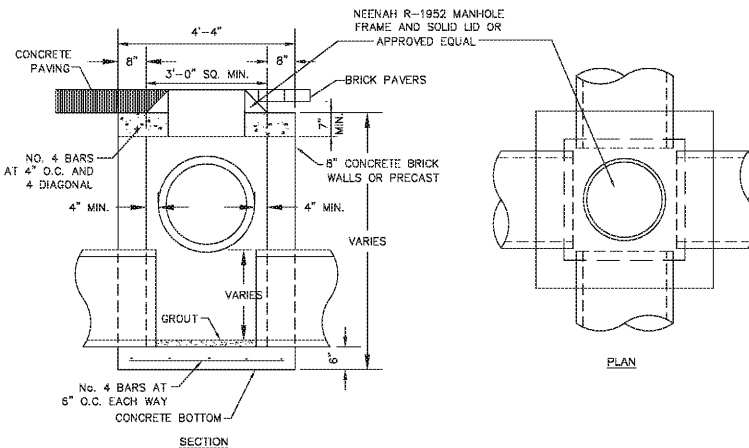
OUTLET STABILIZATION STRUCTURE

NOT TO SCALE



ARE DRAIN DETAIL

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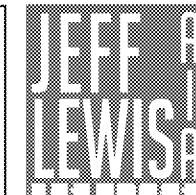


**NOTES:**

- ALL CONCRETE SHALL BE 3,000 PSI.
- ENDS OF ALL PIPES SHALL BE FLUSH WITH INSIDE WALL.
- ALL STEEL BARS SHALL BE PLACED 1-1/2" CLEAR FROM BOTTOM AND SIDES OF SLAB.
- FOR PIPES UP TO 24" I.D. USE 3'-0" x 3'-0" BOX.
- FOR PIPES OVER 24" I.D. BOX INSIDE DIMENSIONS SHALL BE PIPE O.D. + 8" EACH SIDE OF PIPE.
- ALL STEPS SHALL PROTRUDE 4" FROM THE INSIDE FACE OF STRUCTURE WALL.
- CONCRETE BRICK WALLS SHALL HAVE A 1/4" MORTAR COAT ON INSIDE SURFACE.
- WALL THICKNESS IS TO BE 12" IF BOX DEPTH EXCEEDS 12'-0".
- ALL MATERIALS AND CONSTRUCTION ARE TO COMPLY WITH SCOD STANDARD SPECIFICATIONS.
- EXISTING PIPE TO BE TIED TO JUNCTION BOX SHALL BE GROUTED IN THE WALL WITH NOT-SHRINK GROUT.
- REINFORCED CONCRETE MAY BE SUBSTITUTED FOR BRICK WALLS. REINFORCING TO BE #4 BARS @ 12" E.W.

JUNCTION BOX DETAIL

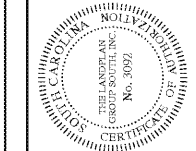
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SANDHILLS MEDICAL FOUNDATION

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REV.	DATE	DESCRIPTION
1.	11.22.19	Revised based on changes to FEMA flood maps.
2.	8.11.20	Bld. Sht.

JOB # 16-039-1 07.15.2019  
TLPGS NO. 803-A

DETAILS

C9.0