

NOTES:

1. REFER TO THESE SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS
2. REFER TO THESE SPECIFICATIONS FOR DRAINAGE STRUCTURE AND MATERIAL REQUIREMENTS
3. RAISE FRAME TO FINISH GRADE ONLY AFTER BASE COURSE OF PAVEMENT IS IN PLACE, RAISE FRAME TO BASE COURSE GRADE IF WEARING COURSE IS TO BE PLACED DURING NEXT CONSTRUCTION SEASON
4. FRAME AND GRATE SHALL CONFORM H-20 LOADING REQUIREMENTS
5. INSERT A SECTION OF PVC CONDUIT OR TUBING THROUGH THE SIDEWALL OF THE STRUCTURE AS SHOWN FOR THE TRACER WIRE TO ENTER THE STRUCTURE. ONCE THE TRACER WIRE IS INSTALLED, SEAL THE VOID BETWEEN THE CONDUIT OR TUBING AND THE TRACER WIRE WITH A WATERPROOF SEALANT. INSIDE THE DROP INLETS, A COIL OF WIRE LONG ENOUGH TO REACH THE COVER SHALL BE ATTACHED TO THE INSIDE OF THE STRUCTURE BY MEANS OF PLASTIC "ZIP-TIES" TO A STAINLESS STEEL RING.



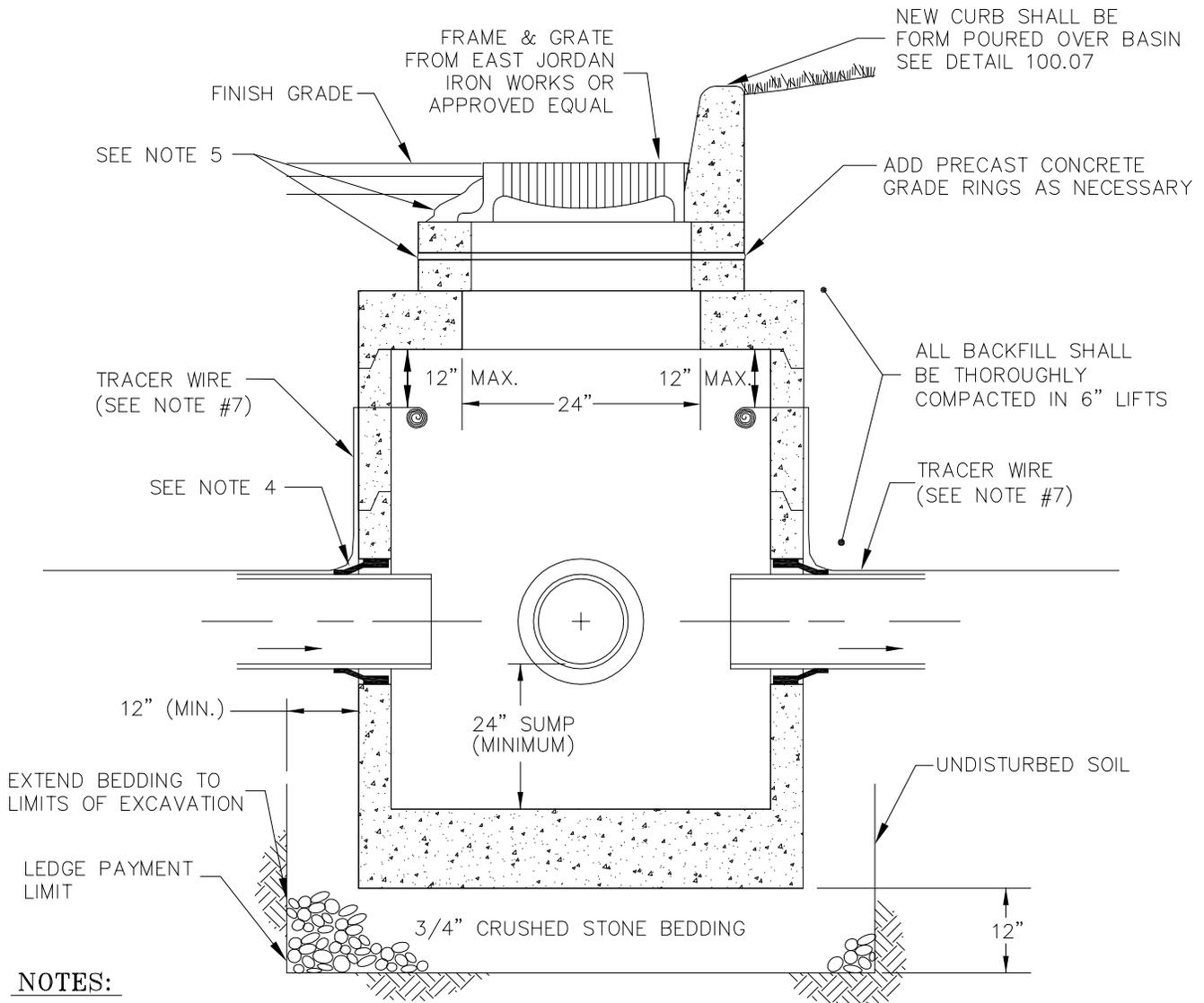
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TOWN OF ESSEX, VERMONT
STANDARD SPECIFICATIONS FOR CONSTRUCTION

DROP INLET

Detail No: 200.01
Scale: NOT TO SCALE
Date: JAN. 2017

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NOTES:

1. REFER TO WRITTEN THE SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
2. REFER TO WRITTEN THE SPECIFICATIONS FOR DRAINAGE STRUCTURE AND MATERIAL REQUIREMENTS.
3. RAISE FRAME TO FINISH GRADE ONLY AFTER BASE COURSE OF PAVEMENT IS IN PLACE, RAISE FRAME TO BASE COURSE GRADE IF WEARING COURSE IS TO BE PLACED DURING NEXT CONSTRUCTION SEASON.
4. RUBBER BOOTS SHALL BE USED AROUND ALL STORM CONNECTIONS.
5. HIGH STRENGTH NON-SHRINK GROUT SHALL BE USED TO SET FRAME AND GRADE RINGS.
6. ALL STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND H-20 WHEEL LOADING.
7. INSERT A SECTION OF PVC CONDUIT OR TUBING THROUGH THE SIDEWALL OF THE STRUCTURE AS SHOWN FOR THE TRACER WIRE TO ENTER THE STRUCTURE. ONCE THE TRACER WIRE IS INSTALLED, SEAL THE VOID BETWEEN THE CONDUIT OR TUBING AND THE TRACER WIRE WITH A WATERPROOF SEALANT. INSIDE THE BASINS, A COIL OF WIRE LONG ENOUGH TO REACH THE COVER SHALL BE ATTACHED TO THE INSIDE OF THE STRUCTURE BY MEANS OF PLASTIC "ZIP-TIES" TO A STAINLESS STEEL RING.



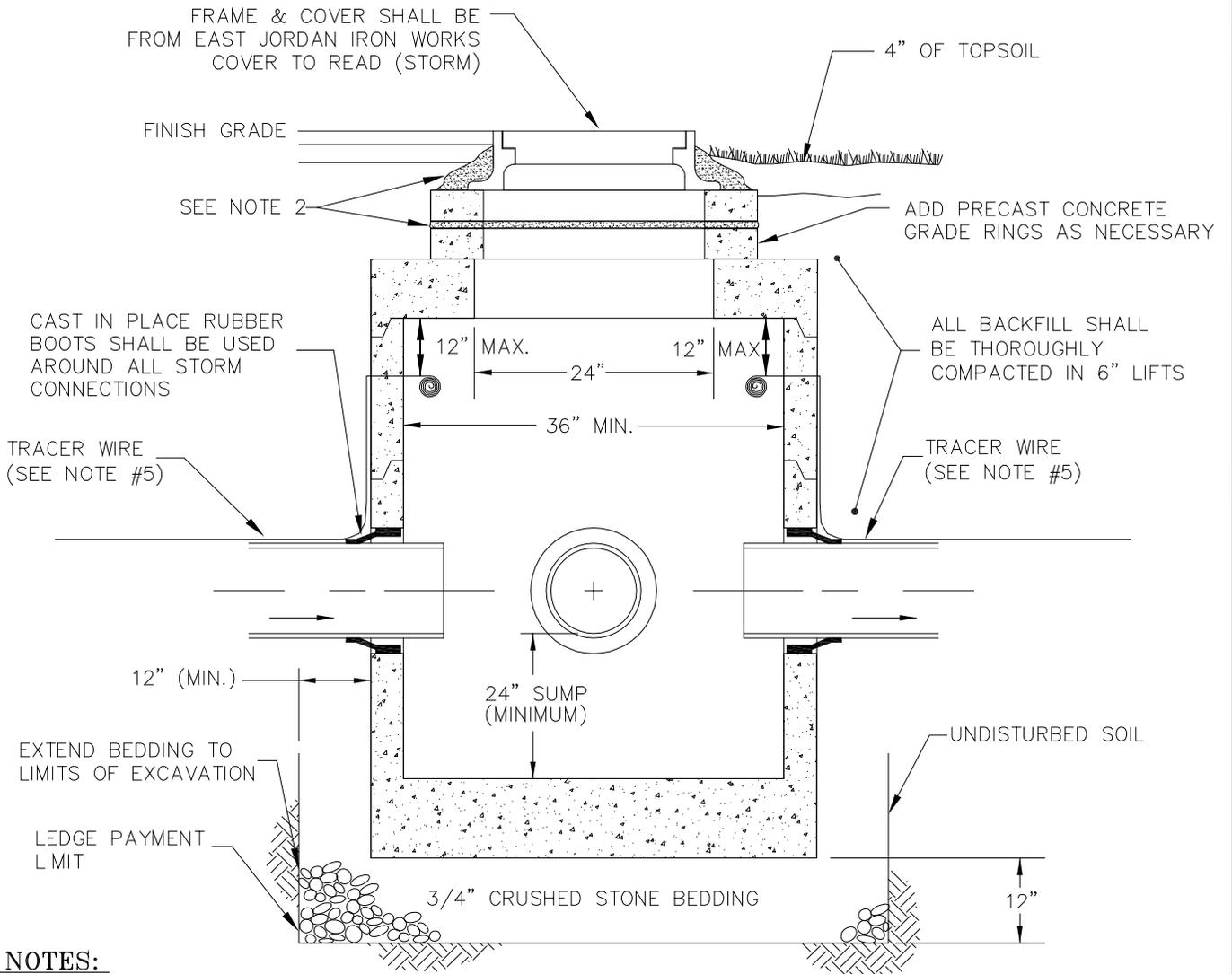
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TOWN OF ESSEX, VERMONT
STANDARD SPECIFICATIONS FOR CONSTRUCTION

CATCH BASIN

Detail No: 200.02
Scale: NOT TO SCALE
Date: JAN. 2017

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NOTES:

1. RAISE FRAME TO FINISH GRADE ONLY AFTER BASE COURSE OF PAVEMENT IS IN PLACE, RAISE FRAME TO BASE COURSE GRADE IF WEARING COURSE IS TO BE PLACED DURING NEXT CONSTRUCTION SEASON.
2. HIGH STRENGTH NON-SHRINK GROUT SHALL BE USED TO SET FRAME AND GRADE RINGS.
3. IN GRASS AREAS, FRAME AND COVER ARE TO BE INSTALLED A MAXIMUM OF 6" ABOVE GRADE.
4. ALL STRUCTURE SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND H-20 WHEEL LOADING.
5. INSERT A SECTION OF PVC CONDUIT OR TUBING THROUGH THE SIDEWALL OF THE STRUCTURE AS SHOWN FOR THE TRACER WIRE TO ENTER THE STRUCTURE. ONCE THE TRACER WIRE IS INSTALLED, SEAL THE VOID BETWEEN THE CONDUIT OR TUBING AND THE TRACER WIRE WITH A WATERPROOF SEALANT. INSIDE THE MANHOLE, A COIL OF WIRE LONG ENOUGH TO REACH THE COVER SHALL BE ATTACHED TO THE INSIDE OF THE STRUCTURE BY MEANS OF PLASTIC "ZIP-TIES" TO A STAINLESS STEEL RING.



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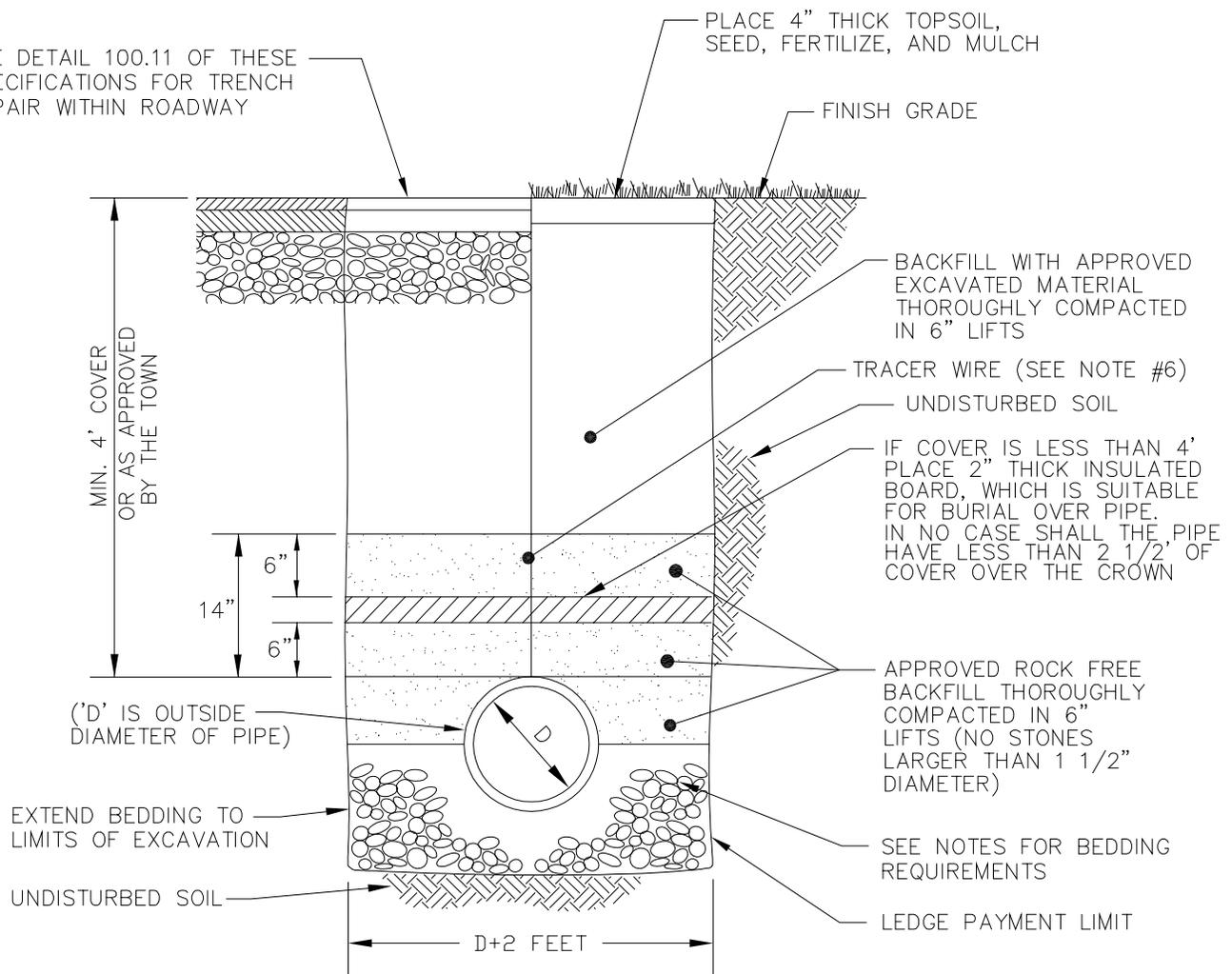
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STANDARD SPECIFICATIONS FOR CONSTRUCTION

STORM DRAIN MANHOLE

Detail No: 200.03
Scale: NOT TO SCALE
Date: JAN. 2017

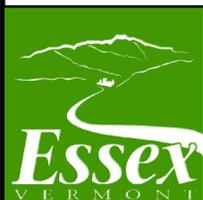
A-16

SEE DETAIL 100.11 OF THESE SPECIFICATIONS FOR TRENCH REPAIR WITHIN ROADWAY



NOTES:

1. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE TRENCHES ENTIRELY FREE OF WATER UNTIL ALL WORK IS FINISHED AND READY FOR BACKFILLING.
2. REFER TO THE WRITTEN SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
3. REFER TO THE WRITTEN SPECIFICATIONS FOR STORM DRAINAGE PIPE REQUIREMENTS.
4. THE SIDES OF THE TRENCHES 4 FEET OR MORE IN DEPTH TO BE ENTERED BY PERSONNEL SHALL BE SHEETED, SLOPED, OR PROPERLY SUPPORTED, CONFORMING TO VOSHA REQUIREMENTS.
5. PIPE BEDDING SHALL BE CRUSHED STONE, FROM 6" BELOW THE INVERT, TO THE SPRINGLINE OF THE PIPE.
6. INSTALL A CONTINUOUS SHEATHED SOLID CONDUCTOR COPPER TRACER WIRE OVER PIPE. THE WIRE SHALL BEGIN INSIDE ONE CATCH BASIN OR MANHOLE AND RUN TO THE NEXT CATCH BASIN OR MANHOLE. INSIDE THE BASINS AND/OR MANHOLES, A COIL OF WIRE LONG ENOUGH TO REACH THE COVER SHALL BE ATTACHED TO THE INSIDE OF THE STRUCTURE. SEE DETAILS 200.01 - 200.03.



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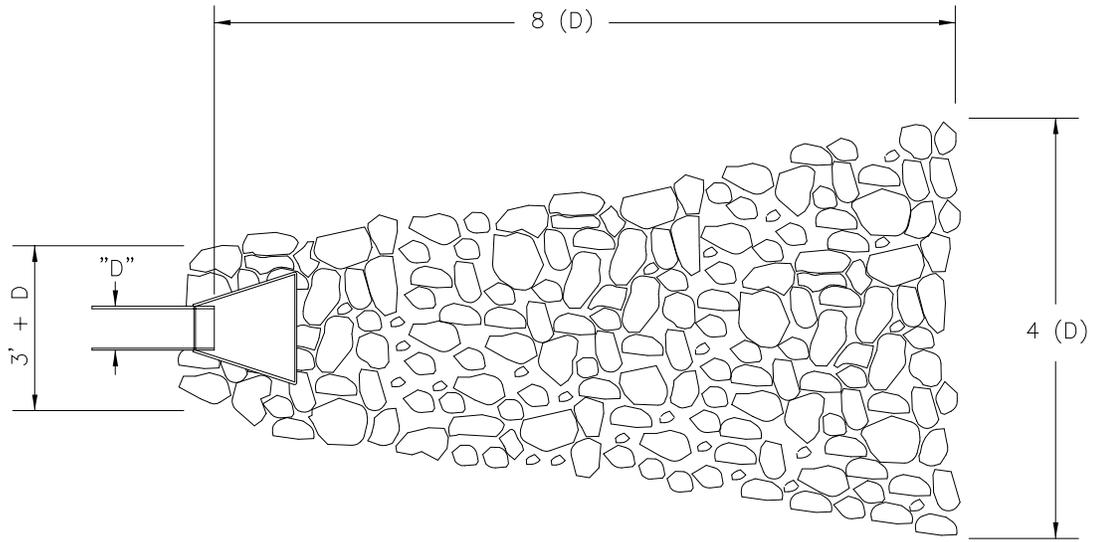
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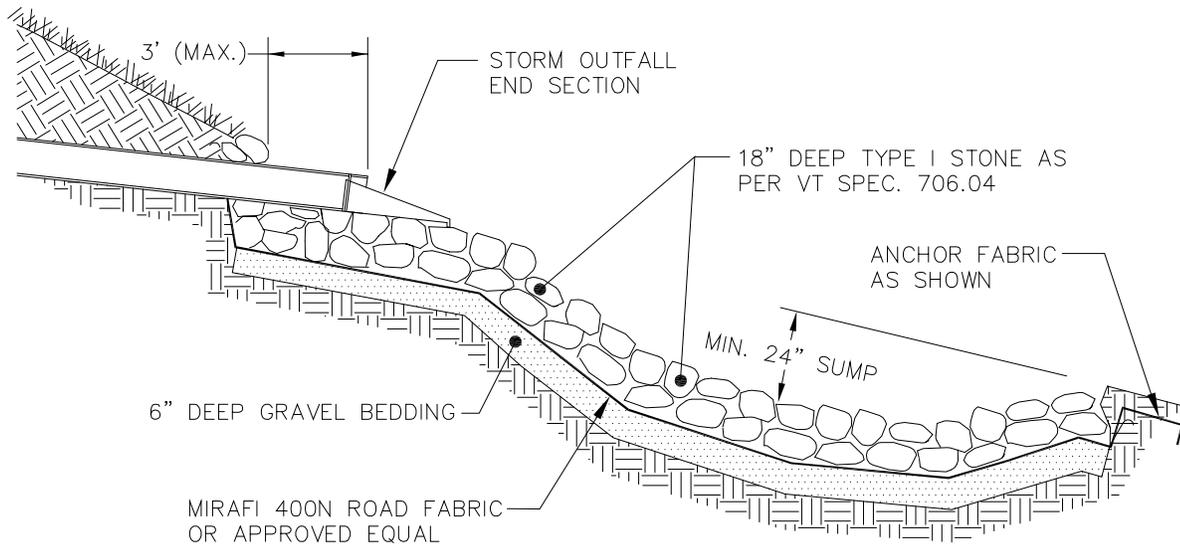
STORM PIPE TRENCH

Detail No: 200.04
Scale: NOT TO SCALE
Date: JAN. 2017

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PLAN



PROFILE



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STANDARD SPECIFICATIONS FOR CONSTRUCTION

STORM OUTFALL

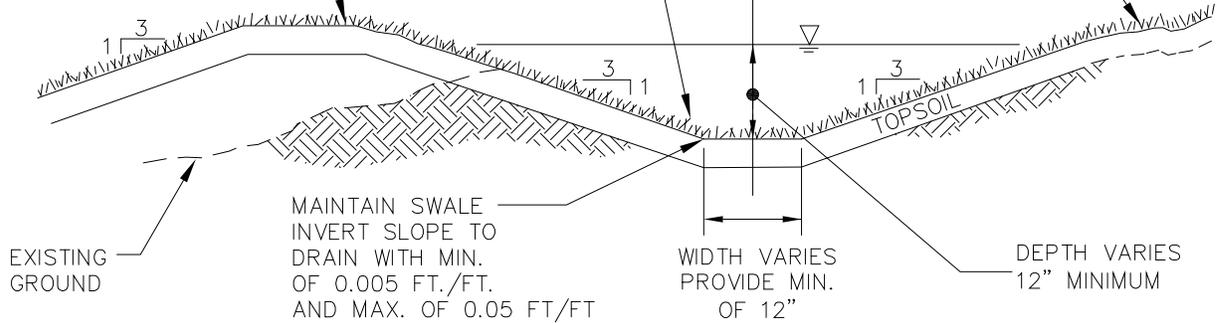
Detail No: 200.05
 Scale: NOT TO SCALE
 Date: JAN. 2017

A-18

BERM AS NECESSARY TO MAINTAIN DEPTH AND 0.005 FT./FT. MIN. SLOPE IN DITCH

PROVIDE 4" TOPSOIL SEED, FERTILIZE, AND MULCH

EXISTING GROUND



GRASS LINED SWALE

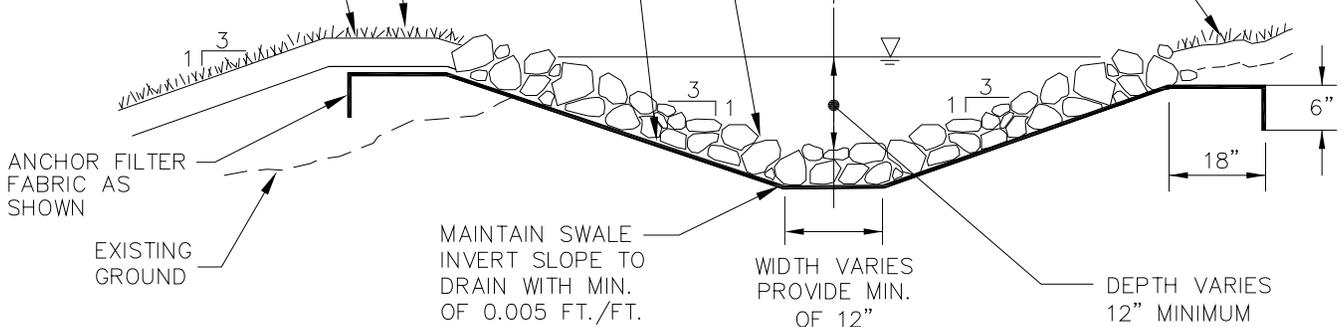
BERM AS NECESSARY TO MAINTAIN DEPTH AND 0.005 FT./FT. MIN. SLOPE IN DITCH

PROVIDE 4" TOPSOIL SEED, FERTILIZE, AND MULCH

PROVIDE 18" DEPTH SEE NOTE 3

PROVIDE MIRAFI FILTER FABRIC

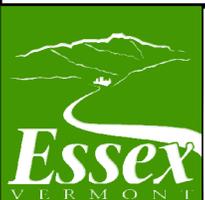
EXISTING GROUND



STONE LINED SWALE

NOTES:

1. THE CONTRACTOR SHALL MAINTAIN THE GRASS LINED SWALE AND RESTORE EROSION PREVENTION MEASURES AFTER EACH STORM EVENT. SEE SECTION 500 OF THESE SPECIFICATIONS FOR FURTHER DIRECTION ON EROSION AND SEDIMENT CONTROL MEASURES.
2. STONE LINED SWALES SHALL BE USED FOR GRADES IN EXCESS OF 0.05 FT/FT (5.0%)
3. DITCHES SHALL BE LINED WITH A COMBINATION OF TYPE 1 STONE & 8" MINUS AS APPROVED BY THE TOWN OF ESSEX PUBLIC WORKS DEPARTMENT.



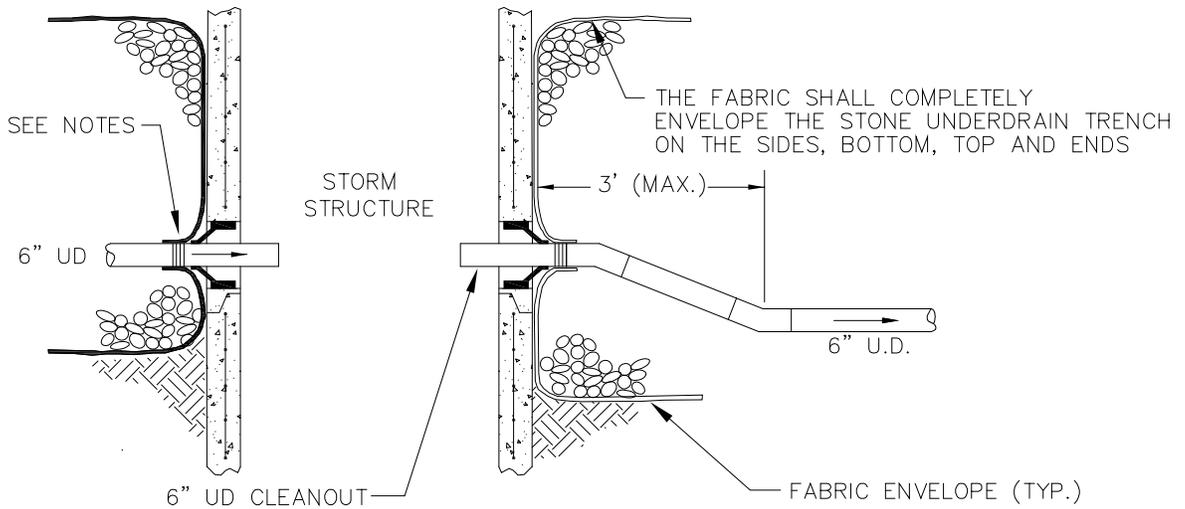
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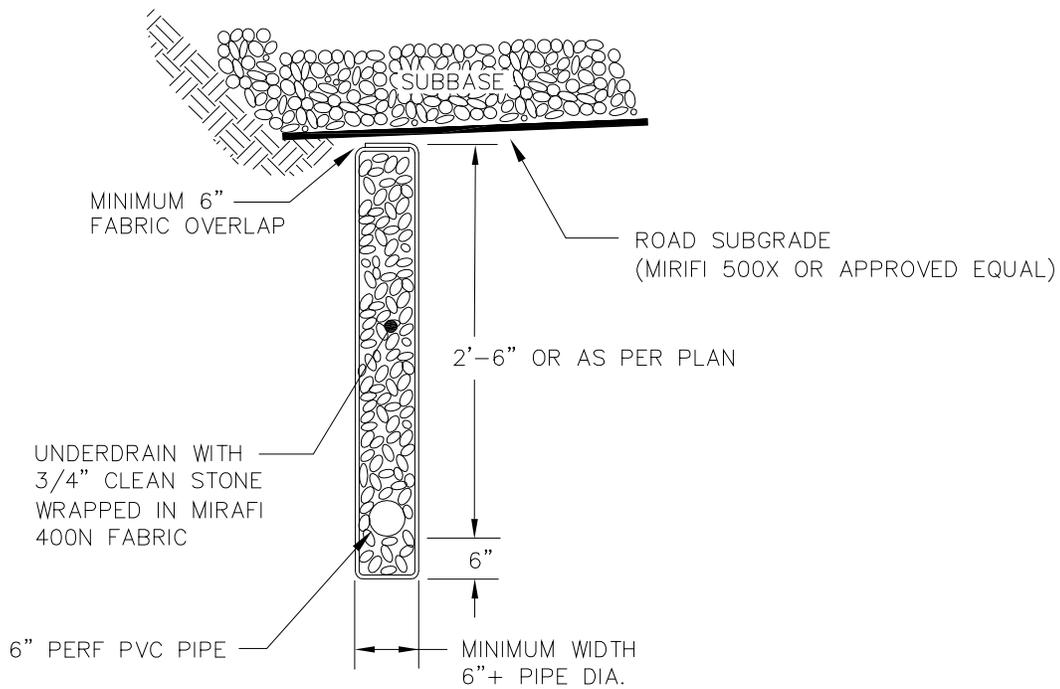
DRAINAGE SWALES

Detail No: 200.06
Scale: NOT TO SCALE
Date: JAN. 2017

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STRUCTURE CONNECTION



TRENCH CROSS SECTION

NOTE

1. THE FABRIC SHALL BE PULLED AROUND THE PIPE AND WRAPPED WITH DUCT TAPE OR WIRE TO PROVIDE A TIGHT ANCHOR.
2. CAST IN PLACE RUBBER BOOTS SHALL BE USED AROUND ALL STRUCTURE PENETRATIONS.



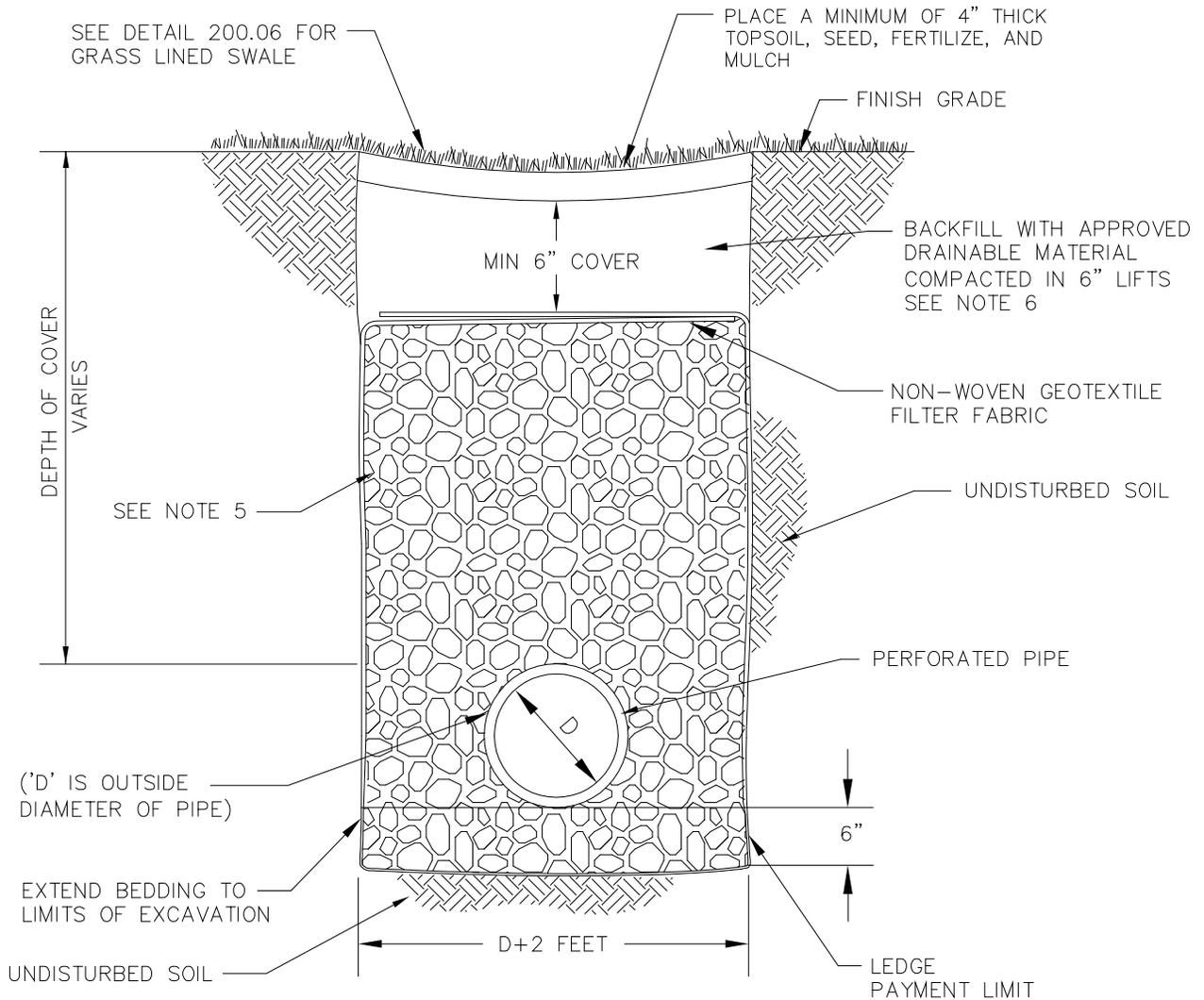
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TOWN OF ESSEX, VERMONT
STANDARD SPECIFICATIONS FOR CONSTRUCTION

ROADWAY UNDERDRAIN

Detail No: 200.07
Scale: NOT TO SCALE
Date: JAN. 2017

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NOTES:

1. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE TRENCHES ENTIRELY FREE OF WATER UNTIL ALL WORK IS FINISHED AND READY FOR BACKFILLING.
2. REFER TO THE WRITTEN SPECIFICATIONS FOR BACKFILL AND COMPACTION REQUIREMENTS.
3. REFER TO THE WRITTEN SPECIFICATIONS FOR STORM DRAINAGE PIPE REQUIREMENTS.
4. THE SIDES OF THE TRENCHES 4 FEET OR MORE IN DEPTH TO BE ENTERED BY PERSONNEL SHALL BE SHEETED, SLOPED, OR PROPERLY SUPPORTED, CONFORMING TO VOSHA REQUIREMENTS.
5. PIPE BEDDING SHALL BE 3/4" WASHED STONE, FROM 6" BELOW THE INVERT, TO 10" BELOW FINISH GRADE OVER THE PIPE
6. FRAME AND GRATE SHALL CONFORM TO H-20 LOADING REQUIREMENTS.
7. A SIEVE OF BACKFILL MATERIAL SHALL BE SUBMITTED AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS PRIOR TO INSTALLATION.



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STANDARD SPECIFICATIONS FOR CONSTRUCTION**

CURTAIN DRAIN

Detail No: 200.08
Scale: NOT TO SCALE
Date: JAN. 2017

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