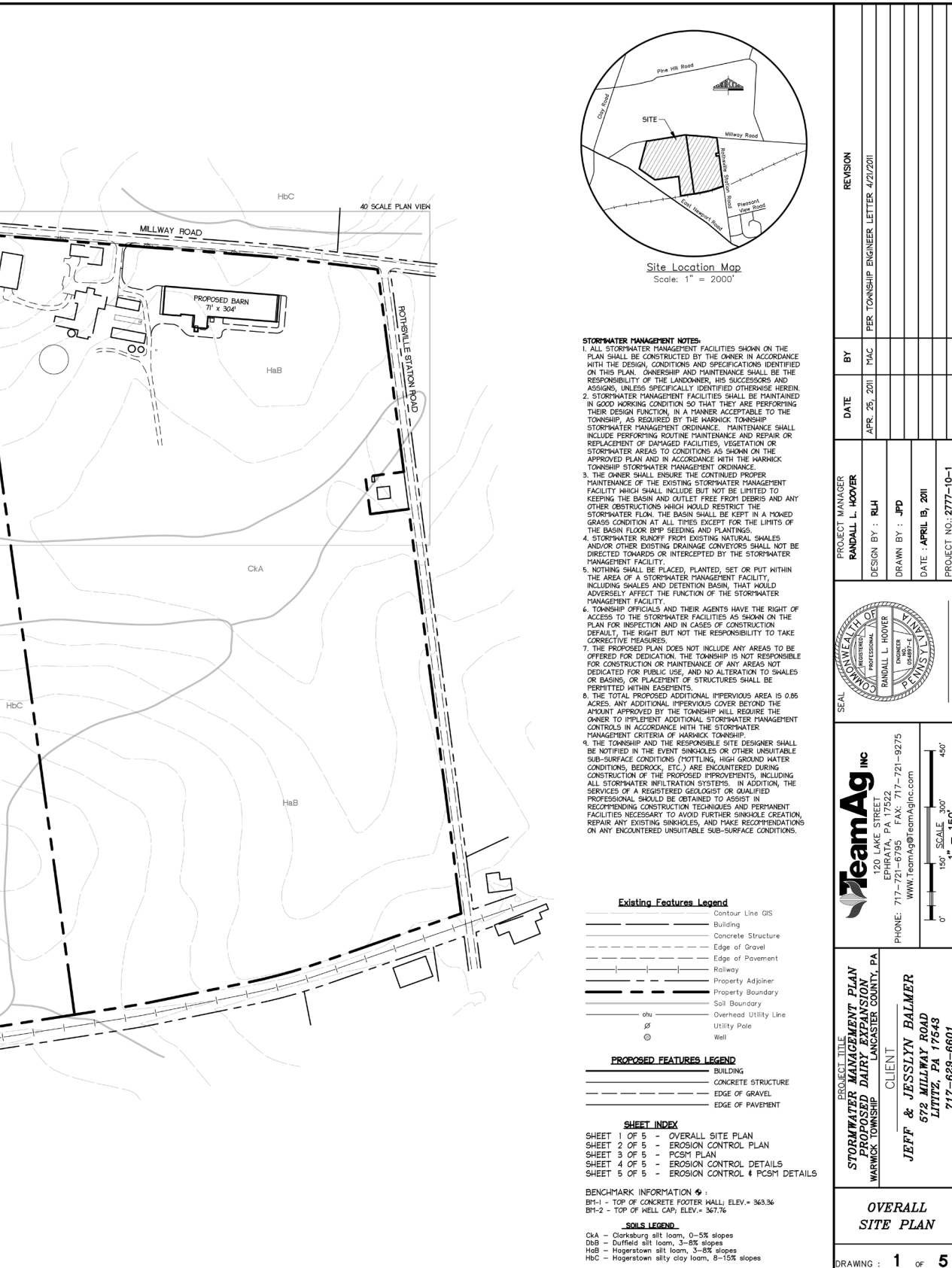
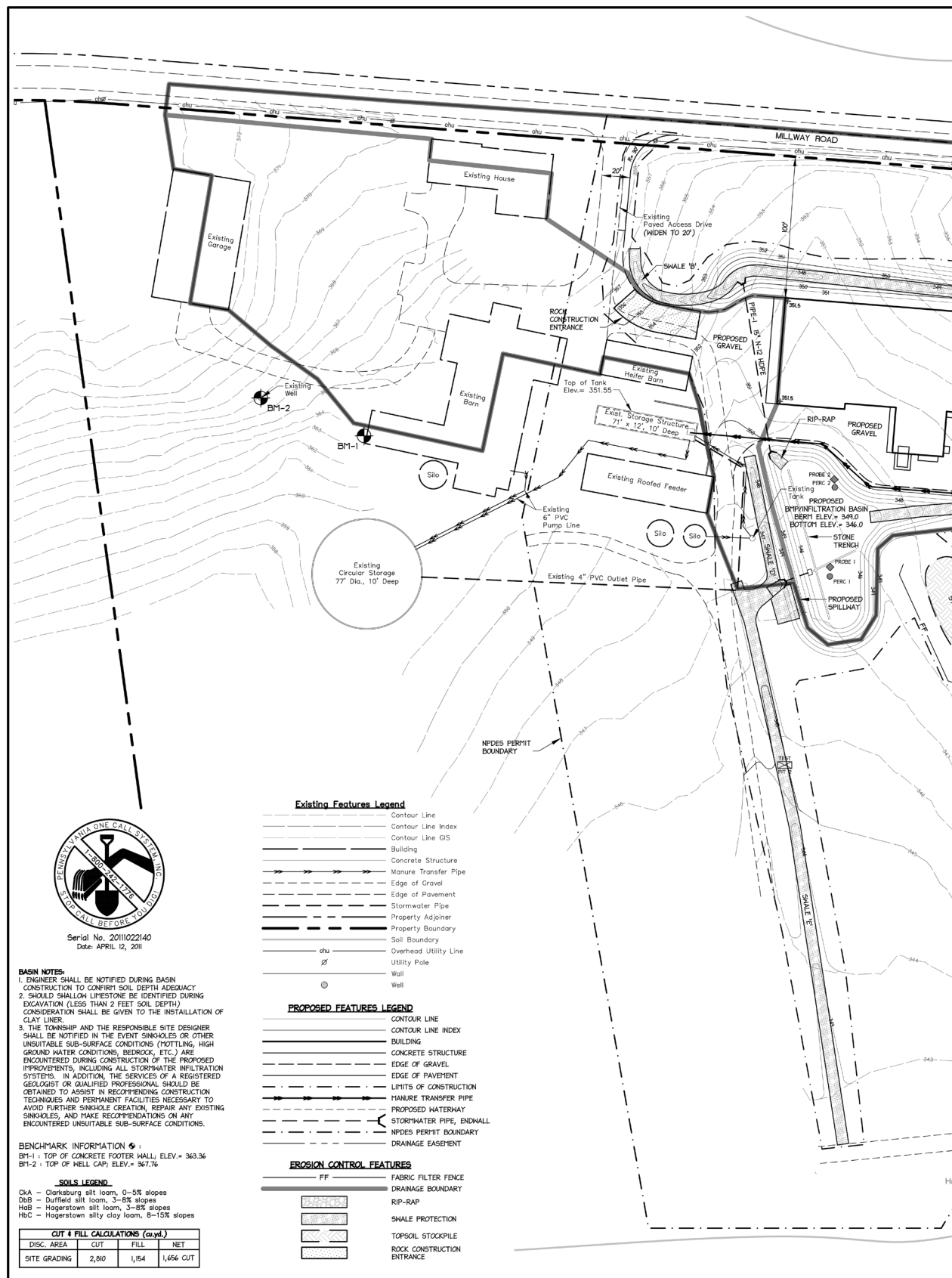


# Resources and Contact Information...continued

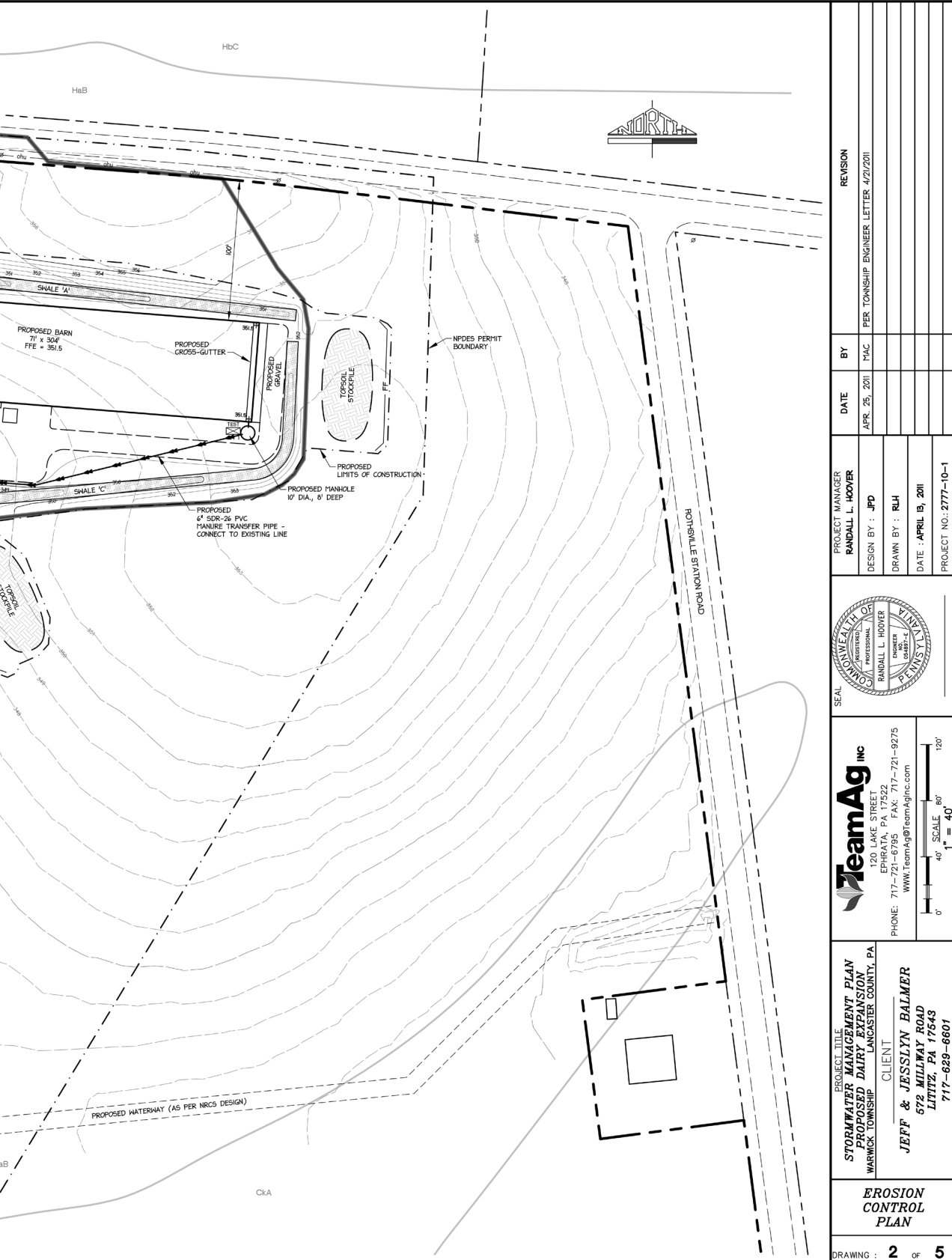


# Resources and Contact Information...continued

## Blueprint

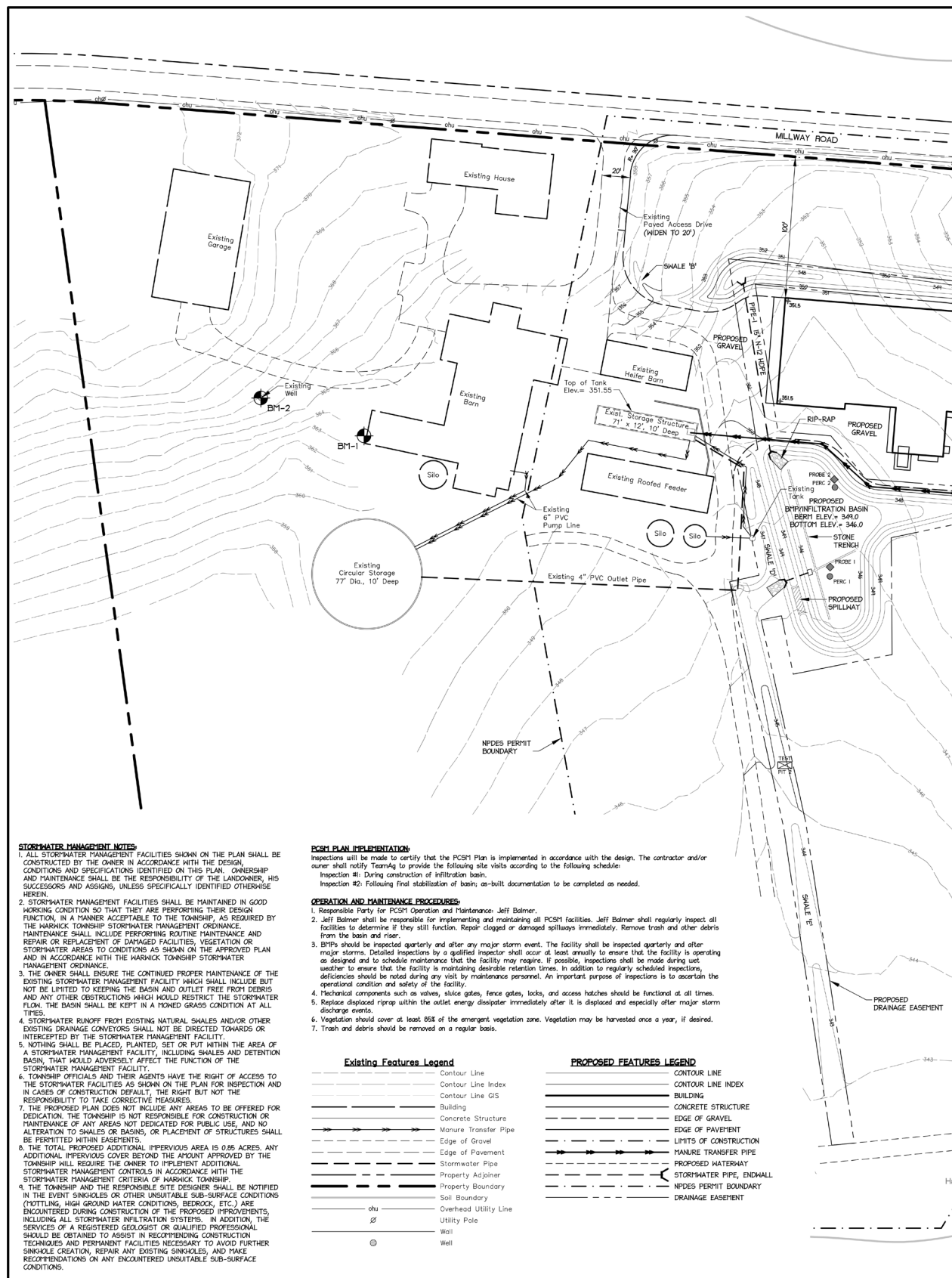


# Resources and Contact Information...continued



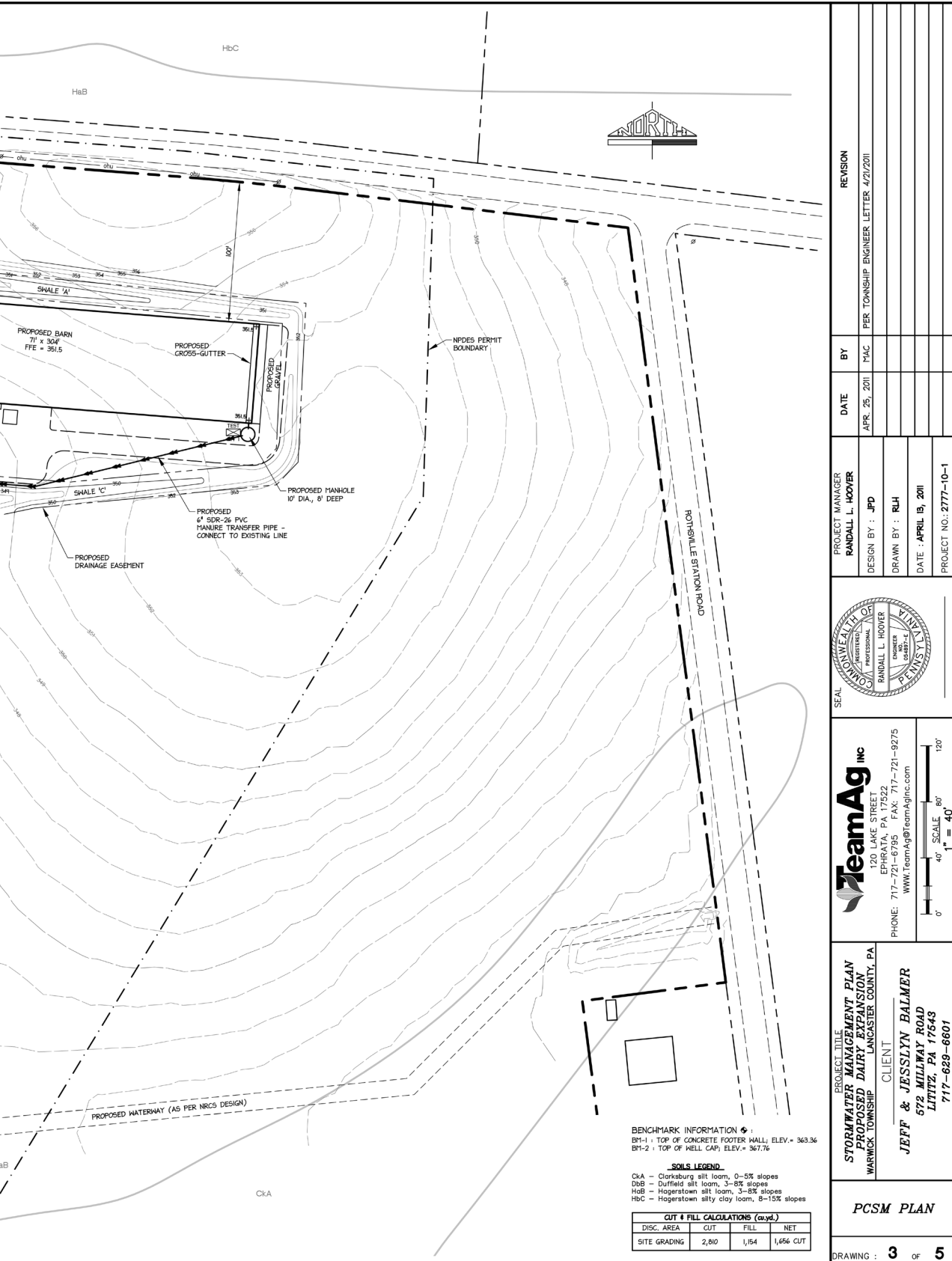
# Resources and Contact Information...continued

## Blueprint





# Resources and Contact Information...continued



	PROJECT MANAGER	RANDALL L. HOOVER	DATE	APR. 25, 2011	BY	MAC	REVISION	PER TOWNSHIP ENGINEER LETTER 4/21/2011
	DESIGN BY :	JPD						
	DRAWN BY :	RLH						
	DATE :	APRIL 13, 2011						
	PROJECT NO.:	2777-10-1						
<b>TeamAg inc</b> 120 LAKE STREET EPHRATA, PA 17522 PHONE: 717-721-6795 FAX: 717-721-9275 WWW.TeamAg@TeamAgInc.com								
<b>PROJECT TITLE</b> STORMWATER MANAGEMENT PLAN PROPOSED DAIRY EXPANSION WARWICK TOWNSHIP LANCASTER COUNTY, PA								
<b>CLIENT</b> JEFF & JESSLYN BALMER 572 MILLWAY ROAD LITITZ, PA 17543 717-629-6801								

## Resources and Contact Information...continued

## Blueprint

**GENERAL EROSION CONTROL NOTES:**

1. Erosion and sediment control measures must be in compliance with the "Erosion and Sediment Control Program Manual." The developer or its authorized representative will be responsible for the proper construction, stabilization, and maintenance of all erosion and sedimentation controls and related items included with the Erosion and Sedimentation Control Plan. The Contractor is advised to become thoroughly familiar with the provisions of 25 PA Code Chapter 102 "Erosion and Sediment Control".
2. A copy of the approved Erosion and Sediment Control Plan must be posted at the construction site in accordance with state law.
3. Before grading or construction begins, the developer or its authorized representative is to construct and complete sediment control measures and devices as shown on the Erosion and Sediment Control Plans.
4. Should additional erosion or sedimentation occur during construction or should questions regarding the maintenance of control practices arise, contact the Lancaster County Conservation District (717) 299-5361 or appropriate agency immediately for technical support.
5. Should any measures contained within this plan prove incapable of adequately removing sediment from on-site flows prior to discharge or of stabilizing the surfaces involved, additional measures must be immediately implemented by the developer or its authorized representative to eliminate all such problems. The Conservation District must be notified of any additional measures taken to abate the pollution of waters of the Commonwealth not shown on the plans. Stockpiles of wood chips, hay bales, crushed stone, and other mulches shall be held in readiness to deal immediately with emergency problems with erosion.
6. The developer or its authorized representative must develop and have approved by the Conservation District, a separate Erosion and Sedimentation Control Plan for each spoil, borrow or other work area not detailed in the approved plan whether within or outside of the construction limits.
7. The developer or its authorized representative shall be responsible for supervising debris disposal from other trades during all phases of construction. Debris shall not be disposed in sediment traps or basins. The developer or the authorized representative shall bear the expense of any clean-up operations initiated by the Engineer or Owner.
8. Driveways are to be gravelled immediately after grading is completed and utilities are installed.
9. The developer or its authorized representative is responsible for the continued inspection, maintenance or repair of all erosion and sediment problems that might occur due to the development of this project, until the site is completely stabilized.
10. The developer or its authorized representative shall install silt fence or temporary diversion berms upslope of all watercourses as required to prevent sediment from entering the watercourses during construction.
11. Any disturbed area on which activity has ceased must be seeded and mulched immediately. During non-germinating periods, mulch must be applied at the recommended rates. Disturbed areas which are not at finished grade and which will be disturbed within one (1) year may be seeded and mulched with a quick growing temporary seeding mixture and mulched. Disturbed areas which are either finished grade or will not be disturbed within one year must be seeded and mulched with a permanent seed mixture and mulched.
12. Straw or hay mulch must be applied at rates of at least 3.0 tons per acre.
13. Lime shall be applied at rates recommended by a soil test.
14. Winter grading shall be avoided. Under no circumstances shall grading be done when the ground is frozen.
15. Silt fencing shall be used around material stockpiles, construction/earth disturbance areas.
16. All disturbed areas will be stabilized (covered) with stone or vegetation as soon as possible following grading or backfilling. Specifications for seeding are listed in the drawings.
17. During excavation, if sediment-laden water is encountered, a sediment filter bag ("dirt bag") shall be used.
18. Until the site is stabilized, all erosion and sedimentation controls must be maintained properly. "Maintenance" must include inspections of all erosion and sedimentation controls after each storm event and on a weekly basis. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, re mulching and renetting must be performed immediately. An extra supply of stone, seed, mulch and silt fence shall be kept on site for emergency purposes.
19. Stockpile heights must not exceed 35'. Stockpile slopes must be 2:1 or flatter.
20. Mulch with control netting or erosion control blankets must be installed on all slopes greater than 3:1.
21. An area shall be considered to have achieved final stabilization when it has a minimum of 70% uniform perennial vegetative cover or other permanent non-vegetative cover with a density sufficient to resist accelerated surface erosion and subsurface characteristics sufficient to resist sliding or other movements.

**FILL MATERIALS:**

1. The General Contractor, or in the absence of a General Contractor, the Operator/Owner shall be responsible for performing Environmental Due Diligence to ensure that all fill material associated with the project qualifies as Clean Fill. All fill material must be used in accordance with the Department's policy "Management of Fill", document number 250-282-773.
2. Clean Fill is defined as: Uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and is recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized. (The term "used asphalt" does not include milled asphalt or asphalt that has been processed for reuse.)
3. Environmental due diligence is defined as: Investigative techniques, including, but not limited to, visual property inspections, electronic data base searches, review of property ownership, review of property use history, Sanborn maps, environmental questionnaires, transaction surveys, analytical testing, environmental assessments or audits. Analytical testing is not a required part of due diligence unless visual inspection and/or review of the past land use of the property indicates that the fill may have been subjected to a spill or release of regulated substance. If the fill may have been affected by a spill or release of a regulated substance, it must be tested to determine if it qualifies as clean fill. Testing shall be performed in accordance with Appendix A of the Department's policy "Management of Fill".

**CONSTRUCTION SEQUENCE:**

1. Notify Lancaster County Conservation District (717) 299-5361 seven (7) days prior to the start of construction. Also, at least 3 days before starting any earth disturbance activity, all contractors involved in those activities shall notify the Pennsylvania One Call System Inc. at 1-800-242-1776 for buried utilities location.
2. All earth disturbance activities shall proceed in accordance with the following sequence. Each stage shall be completed in compliance with Chapter 102 regulations before any following stage is initiated. Clearing and grubbing shall be limited only to those areas described in each stage.
3. The proposed basin area shall be protected at all times against construction equipment and stockpiling. The basin infiltration floor shall be chisel plowed at the end of construction.
4. Install rock construction entrance.
5. Install fabric fence as shown on the drawing.
6. Construct sediment trap and install temporary outlet structure.
7. Construct silt fences A, B, C, and D. Line silt fences with erosion control fabric. Install Pipe-1.
8. The above erosion and sediment controls must be constructed, stabilized and functional before general site disturbance occurs for the areas within the tributary areas of the controls.
9. Remove topsoil and rough grade the site of the proposed barn.
10. Begin construction of the barn. A crushed aggregate base course shall be applied to the driveway which is to serve the proposed building.
11. Fine grade the lawn areas and seed or sod immediately with a perennial grass cover. Lawns shall be maintained on a regular basis and repaired, reseeded and mulched until stabilization is achieved.
12. After final site stabilization (i.e. a minimum uniform 70% perennial vegetative cover, with a density capable of resisting accelerated erosion and sedimentation) has been achieved, the temporary erosion and sedimentation controls must be removed. Areas disturbed during the removal of the controls shall be restabilized.
13. The sediment trap should be converted to a permanent basin. The conversion is done in the following manner:
  - a. Remove remaining water from sediment trap.
  - b. Remove trash and other debris from the basin.
  - c. Remove sediment that has accumulated in the sediment trap.
  - d. Inspect and repair riser structure and spillway if necessary. Remove temporary outlet cover.
14. The basin may not receive run-off until the entire contributing drainage area to the basin has received final stabilization.
15. Prior to seeding, the infiltration basin floor shall be chisel plowed to a depth of 12-18 inches with suitable equipment.
16. After final grading, seeding will take place to establish a dense vegetative cover. Plant a seed mix containing "Virginia Wild rye" such as "Retention Basin Floor Seeding Mix ERNIX-126" from Ernst Conservation Seeds at 1/2 to 1 pound per 1,000 square feet.
17. Upon completion of an earth disturbance activity or any stage or phase of an activity, the site shall be immediately seeded, mulched or otherwise protected from accelerated erosion and sedimentation. Erosion and sediment control BMPs shall be implemented and maintained until the permanent stabilization is completed. For an earth disturbance activity or any stage or phase of an activity to be considered permanently stabilized, the disturbed areas shall be covered with one of the following:
  - (1) A minimum uniform 70% perennial vegetative cover, with a density capable of resisting accelerated erosion and sedimentation.
  - (2) An acceptable BMP which permanently minimizes accelerated erosion and sedimentation.

**MAINTENANCE OF EROSION CONTROL FACILITIES:**

1. The General Contractor, or in the absence of a General Contractor, the Operator/Owner, shall be responsible for implementing and maintaining all Soil Erosion Controls. The Contractor shall, at the end of each week as well as with each rainfall, inspect all drainage and erosion control facilities to determine if they still function. Silt fence shall be cleared of silt when silt reaches halfway up fence. Additional stone ballast shall be placed, if necessary, to control the tracking of mud by construction vehicles onto the adjacent roads.
2. Check basin embankments, spillways, and outlets for erosion, piping and settlement. Make necessary repairs immediately. Replace displaced riprap within the outlet energy dissipator immediately after it is displaced and especially after major storm discharge events.
3. If additional silt fence or diversions are necessary, they shall be provided as required. The Lancaster County Conservation District must review all changes. Sediment deposited behind silt barriers shall be removed and incorporated into the final grading operations.
4. Until the site is stabilized, all erosion and sedimentation controls must be maintained properly. "Maintenance" must include inspections of all erosion and sedimentation controls after each storm event and on a weekly basis. All site inspections will be documented in an inspection log kept for this purpose. The compliance actions and the date, time and name of the person conducting the inspection. The inspection log will be kept on site at all times and made available to the district on request.
5. All preventative and remedial maintenance work, including clean out, repair, replacement, regrading, reseeding, re mulching and renetting must be performed immediately. If erosion and sedimentation BMPs fail to perform as expected, replace or modify installed BMPs. An extra supply of stone, seed, mulch and silt fence shall be kept on site for emergency purposes.
6. When the entire project has become stabilized (i.e. uniform vegetative cover), any temporary sediment and erosion controls shall be removed and the areas stabilized.
7. Sediment must be removed from traps when sediment has accumulated to the clean out elevation. Sediment traps must be protected from unauthorized access of third parties.

**PROCEDURES FOR RECYCLING:**

1. The developer or its authorized representative shall to the greatest extent possible recycle and reuse construction materials when no longer needed on the site. Concrete forms will be reused in other construction projects. Excess materials will be used in other projects as much as is feasible, rather than disposal on the site.

**NOTES FOR SEEDING**

CONDITION	FORMULA AND SPECIES	SEED RATE # BY HEIGHT PLANTING PER SQ. YD.	SEEDING RATE SEED LBS. PER 1000 SQ. YD.
LAWN AREAS LESS THEN 3 TO 1	FORMULA B - Perennial ryegrass mixture (LOUIS PERENNIAL) a combination of improved certified varieties with no one variety exceeding 50% of the total.	20 #	40 0.15 4.0
	- Creeping Red Fescue or Chewings Fescue	30 #	60 0.15 6.0
	- Kentucky Bluegrass mixture (POA PRATENSIS) a combination of improved certified varieties with no one variety exceeding 50% of the total.	50 #	80 0.20 10.0
LAWN AREAS GREATER THEN 3 TO 1	FORMULA C - Grassmunch (CORONILLA VARIA)	45 #	90 0.10 4.0
	- Annual Ryegrass (LOUIS MULTIFLORUM)	55 #	60 0.15 5.0
PERMANENT SHADES	FORMULA D - Tall Fescue (FESTUCA ARUNDINACEA VAR. KENTUCKY 3)	70 #	85 0.15 15.0
	- Creeping Red Fescue or Chewings Fescue	30 #	60 0.15 6.0
TEMPORARY	FORMULA E - Annual Ryegrass (LOUIS MULTIFLORUM)	100 #	40 0.15 10.0

**GENERAL NOTES:**

1. Any disturbed area on which activity has ceased and which will remain exposed must be seeded and mulched immediately. During non-germinating periods, mulch must be applied at the recommended rates. Disturbed areas which are not at finished grade and which will be redisturbed within 1 year may be seeded and mulched with a quick growing temporary seeding mixture and mulch. Disturbed areas which are either at finished grade or will not be redisturbed within one year must be seeded and mulched with a permanent seed mixture and mulch.
2. Diversions, channels, sedimentation basins sediment traps and stockpiles must be seeded and mulched immediately.
3. Hay or straw mulch must be applied at rates of at least 3.0 tons per acre. Mulch shall be anchored immediately after application. Mulch shall be held down by synthetic binders or mechanical means.

**PERMANENT SEEDING**

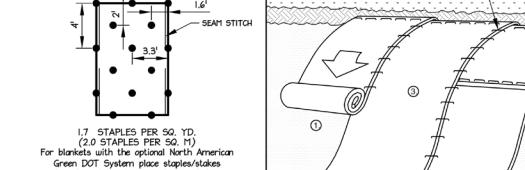
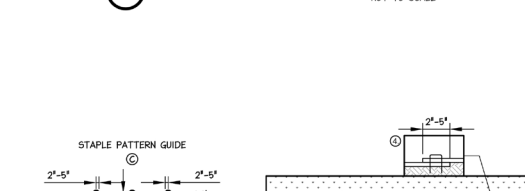
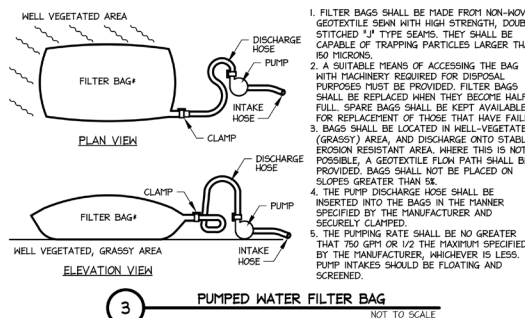
Preparation of seedings grade as necessary to bring the subgrade to a true, smooth slope parallel to and six (6) inches below finished grade. Place topsoil over specified areas to a depth sufficiently greater than six (6) inches so that after settlement and light rolling the complete work will conform to lines, grades, and elevations shown.

Apply 2700 lbs./acre agricultural grade limestone and 5-10-5 fertilizer at a rate of 240 lbs./acre.

Fertilizer and agricultural limestone shall be thoroughly incorporated into the soil by rototilling or other method to a minimum depth of four (4) inches. The entire surface shall be done in two (2) separate operations. The second seeding shall be done immediately after the first and at right angles to the first seeding and lightly raked into the soil. Mulch seeded areas immediately after seeding.

**TEMPORARY SEEDING**

Site preparation: Apply 2700 lbs./acre agricultural grade limestone and 10-10-10 fertilizer at a rate of 180 lbs./acre and work in where possible. Secure a soil test before making a permanent seeding. After seeding, mulch with hay or straw at a rate of 3 tons per acre.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NO CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROX. (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BY COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE B.
3. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE STAPLES TO SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2'-5" (5cm-12.5cm) OVERLAP DEPENDING ON TO ENSURE PROPER SEAM ALIGNMENT. ANCHOR THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) WITH STAPLES/STAKES.
5. CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 2'-5" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30cm) APART ACROSS ENTIRE BLANKET WIDTH.

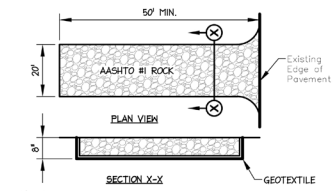
NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15cm) MAY BE NECESSARY TO HOLD THE BLANKETS.

**NORTH AMERICAN GREEN  
SLOPE INSTALLATION**

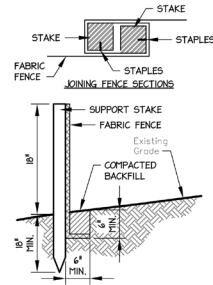
6

NOT TO SCALE

# Resources and Contact Information...continued



**1 ROCK CONSTRUCTION ENTRANCE**  
NOT TO SCALE



**2 STANDARD FILTER FABRIC FENCE (18' HIGH)**  
NOT TO SCALE

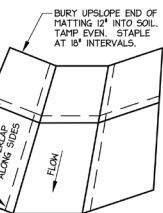
STAKES SPACED AT 8' MAXIMUM. USE 2" x 2" WOOD OR EQUIVALENT STEEL STAKES.

FILTER FABRIC FENCE MUST BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE BARRIER MUST BE AT LEAST 8' UP SLOPE AT 45° TO THE MAIN BARRIER ALIGNMENT.

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.

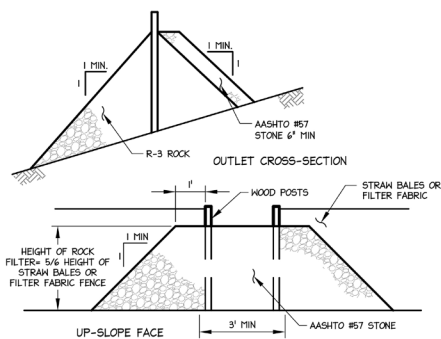
ANY SECTION OF FILTER FABRIC FENCE WHICH HAS BEEN UNDERGIRD OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

WHERE ENDS OF FILTER FABRIC COME TOGETHER, THEY MUST BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS. THE TOE ANCHOR MUST BE BACKFILLED AND COMPACTED TO A DENSITY EQUAL TO THE SURROUNDING SOILS.



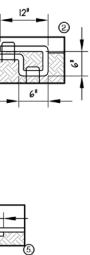
**3 PUMPED WATER FILTER BAG**  
NOT TO SCALE

SHALE	CHANNEL SLOPE (FV/FH)	B (Ft)	D (Ft)	Z	LINING
A	0.010	3.0	1.4	3	NAG-S75
B	0.010	2.0	0.8	3	NAG-S75
C	0.017	3.0	1.2	3	NAG-S75
D	0.006	5.0	1.55	3	NAG-S75
E	0.025	3.0	1.2	3	NAG-S75

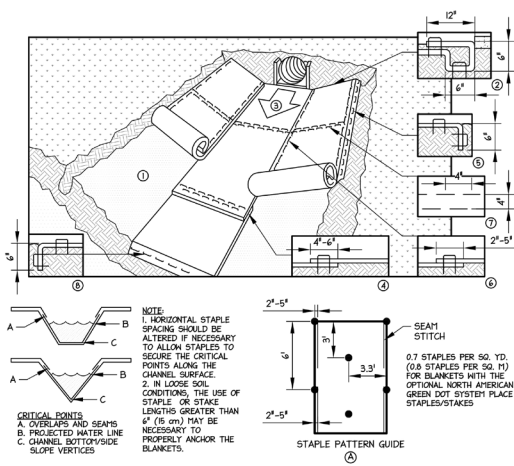


**4 ROCK FILTER OUTLET**  
NOT TO SCALE

SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.



**5 NORTH AMERICAN GREEN**  
NOT TO SCALE



**6 STORMWATER MANAGEMENT PLAN**  
NOT TO SCALE

NOTE: WHEN USING APPROXIMATELY 12" STAPLES/STAKES, APPLY SEED TO BLANKET OVER THE TRENCH LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. EACH OF THE BLANKET TYPE, EVEN WITH THE SEED, MUST BE PROPERLY SECURED.

NOTE: WHEN USING APPROXIMATELY 12" STAPLES/STAKES, APPLY SEED TO BLANKET OVER THE TRENCH LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. EACH OF THE BLANKET TYPE, EVEN WITH THE SEED, MUST BE PROPERLY SECURED.

1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4'-6" (10m-15m) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4' (10m) APART AND 4' (10m) ON CENTER TO SECURE BLANKETS.

5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2'-5" (5m-12.5m) (DEPENDENT ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH ON THE BLANKET BEING OVERLAPPED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 50 TO 60 FOOT (15m-20m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4' (10m) APART AND 4' (10m) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.

8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

PROJECT TITLE <b>STORMWATER MANAGEMENT PLAN PROPOSED DAIRY EXPANSION WARWICK TOWNSHIP LANCASTER COUNTY, PA</b>		PROJECT NO.: 2777-10-1	
PROJECT MANAGER <b>RANDALL L. HOOPER</b>	DESIGN BY : <b>JPD</b>	DATE <b>APR. 25, 2011</b>	REVISION <b>PER TOWNSHIP ENGINEER LETTER 4/21/2011</b>
DRAWN BY : <b>RLH</b>	DATE : <b>APRIL 13, 2011</b>		
SEAL 			
TeamAg inc 120 LAKE STREET EPHRATA, PA 17522 PHONE: 717-721-6795 FAX: 717-721-9275 WWW.TeamAg@TeamAgInc.com		SCALE AS NOTED	
CLIENT <b>JEFF &amp; JESSLYN BALMER 572 MILLWAY ROAD LITITZ, PA 17543 717-629-6801</b>			
<b>EROSION CONTROL DETAILS</b>			
DRAWING : <b>4</b> OF <b>5</b>			



Resources and Contact Information...continued

Blueprint

POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) STANDARD NOTES

**PCSM Requirements**  
A licensed professional or a designee shall be present onsite and be responsible during critical stages of implementation of the approved PCSM Plan. The critical stages may include the installation of underground treatment or storage BMPs, structurally engineered BMPs, or other BMPs as deemed appropriate by the Department or the conservation district. The PCSM Plan, inspection reports and monitoring records shall be available for review and inspection by the Department or the conservation district.

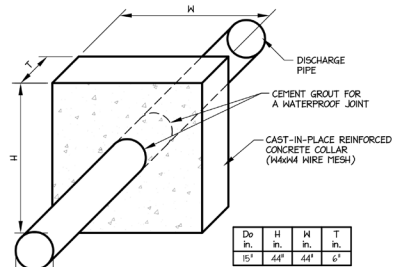
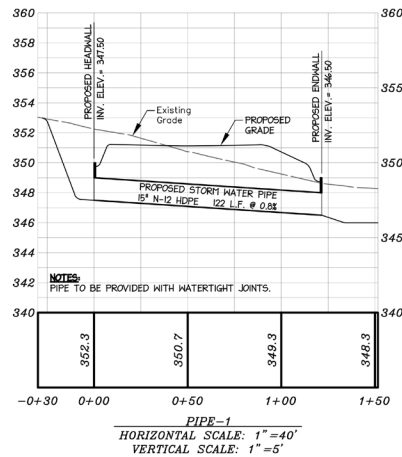
**PCSM Long Term Operations and Maintenance Requirements**  
The permittee or co-permittee shall be responsible for long-term operation and maintenance of PCSM BMPs unless a different person is identified in the notice of termination and has agreed to long-term operation and maintenance of PCSM BMPs. A permittee or co-permittee that fails to transfer long-term operation and maintenance of the PCSM BMP or otherwise fails to comply with this requirement shall remain jointly and severally responsible with the landowner for long-term operation and maintenance of the PCSM BMPs located on the property.

**Permit Termination**  
Upon permanent stabilization of the earth disturbance activity under §02.22(a)(2) (relating to permanent stabilization), and installation of BMPs in accordance with an approved plan prepared and implemented in accordance with §02.4 and §02.5 (relating to erosion and sediment control requirements), and PCSM requirements), the permittee or co-permittee shall submit a notice of termination to the Department or conservation district.

- The notice of termination must include:
1. The facility name, address and location
  2. The operator name and address
  3. The NPDES permit number
  4. The reason for permit termination
  5. Identification of the persons who have agreed to and will be responsible for long-term operation and maintenance of the PCSM BMPs in accordance with §02.8(m) and proof of compliance with §02.8(n)(2)
  6. Final certification: The permittee shall include with the notice of termination "Record Drawings" with a final certification statement from a licensed professional, which reads as follows:

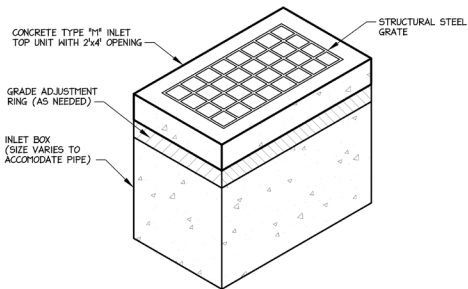
"I (name) do hereby certify pursuant to the penalties of 18 Pa C. S.A. §4904 to the best of my knowledge, information and belief, that the accompanying record drawings accurately reflect the as-built conditions, are true and correct, and are in conformance with Chapter 102 of the rules and regulations of the Department of Environmental Protection and that the project site was constructed in accordance with the approved PCSM Plan, all approved plan changes and accepted construction practices."

1. The permittee shall retain a copy of the record drawings as a part of the approved PCSM Plan.
2. The permittee shall provide a copy of the record drawings as part of the approved PCSM Plan to the person identified in this section as being responsible for the long-term operation and maintenance of the PCSM BMPs.
7. Copy of Legal Instrument: For any property containing a PCSM BMP, the permittee or co-permittee shall record an instrument with the recorder of deeds which will assure disclosure of the PCSM BMP and the related obligations in the ordinary course of a title search of the subject property. The recorded instrument must identify the PCSM BMP, provide for necessary access related to long-term operation and maintenance for the PCSM BMPs and provide notice that the responsibility for long-term operation and maintenance of the PCSM BMP is a covenant that runs with the land that is binding upon and enforceable by subsequent grantees, and provide proof of filing with the notice of termination.

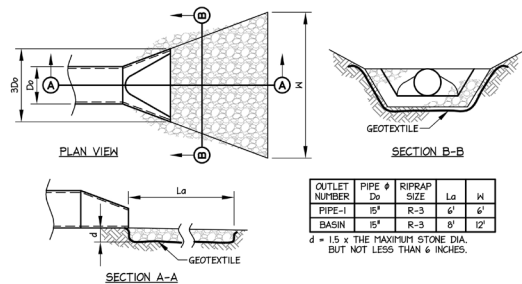


NOTES:  
1. MIN. CONCRETE COMPRESSIVE STRENGTH = 3000 PSI  
2. SEE EMBANKMENT DETAIL FOR LOCATION

1 REINFORCED CONCRETE ANTI-SEEP COLLAR NOT TO SCALE

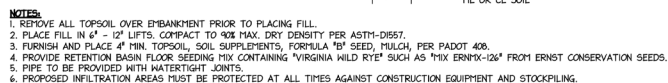
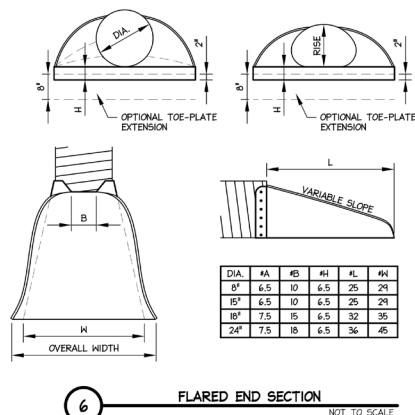
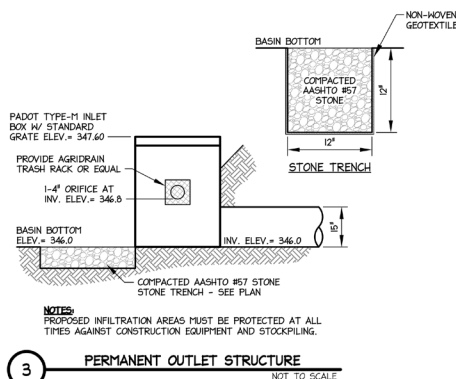


4 TYPE 1M INLET NOT TO SCALE

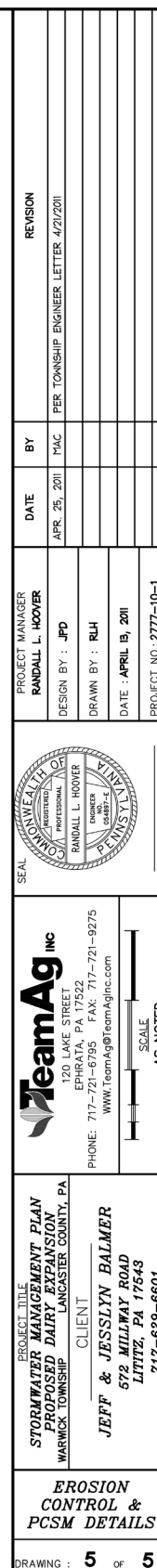


7 RIPRAP APRON OUTLET PROTECTION NOT TO SCALE





PERMANENT RISER				TEMPORARY RISER				BARREL				EMBANKMENT					
BASIN NO.	SIZE (N)	CREST ELEV (FT)	MATERIAL	ORIFICE	MAT'L	DIA (N)	CREST ELEV (FT)	MAT'L	DIA (N)	INLET ELEV (FT)	MAT'L	LENGTH (FT)	OUTLET ELEV (FT)	TOP ELEV (FT)	TOP WIDTH (FT)	CLEAN OUT ELEV (FT)	BOTTOM ELEV (FT)
1	TYPE M	347.4	CONCRETE	Ø 36 x 36	PVC	16	347.4	PVC	16	346.0	PVC	17	345.4	348.0	5	346.5	346.0



## Resources and Contact Information...*continued*

### Contacts:

Please call the Center for Dairy Excellence to make contact with any of these individuals or organizations to learn more about their role in successfully completing this project.

Dr. Charles Gardner

Randy Hoover, Team Ag

Dale Hershey

Dennis Hall

Dr. Steve Foulke, Herd Veterinarian





CENTER FOR  
**Dairy**EXCELLENCE

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