PER MAP REF. No. 1

LEGEND

△ –COMPUTED POINT
● –PIN TO BE SET
⊠ –IRON PIN FOUND
⊗ –IRON PIPE FOUND
Ø –UTILITY POLE
* –PROPOSED NEW DIVISION LINE

MAP REFERENCES:

1) "SURVEY MAP SHOWING PORTION OF LANDS OF JOHN F. YOUNG..." DATED 10/3/2012 BY T.G. MILLER, P.C.

NOTE:
1.) THIS SURVEY MAP PREPARED WITHOUT BENEFIT OF AN ABSTRACT OF TITLE PROVIDED, SUBJECT TO ANY STATE OF FACT THAT AN UPDATED ABSTRACT OF TITLE MAY SHOW.
2.) DATE OF LAST FIELD WORK WAS 2/1/2017

TEETER ROAD

EAST SHORE CIRCLE (3 ROD RIGHT OF WAY=49.5')

PRESENT CENTERLINE

PRESENT CENTERLINE OF INTERSECTION

TIE MEAS. 111'±

R/W

"DEED TO CENTERLINE OF ROAD, EXCEPT & RESERVE ALL EXISTING PUBLIC ROAD & UTILITY RIGHT OF WAYS"

EAST SHORE CIRCLE

N 71°06'53" E 160.00'

S 71°06'53" W 139.59'

N 70°57'51" E 20.41'

N 70°57'51" E 191.75'

60.00'

O.H.

24.71'

*N 19°11'22" W 286.10' (P TO P) 349.51' TOTAL

*S 19°11'22" E 310.35'

*N 19°11'22" W 310.40'

*S 18°58'58" E 310.90'

*S 71°06'53" W 160.00'

*N 71°06'53" E 160.00'

* S 71°06'53" W 190.63'

39.16'

LOT 1
AREA=1.05 ACRES
(NET TO ROAD R/W)

LOT 2
AREA=1.05 ACRES
(NET TO ROAD R/W)

LOT 3
AREA=1.25 ACRES
(NET TO ROAD R/W)

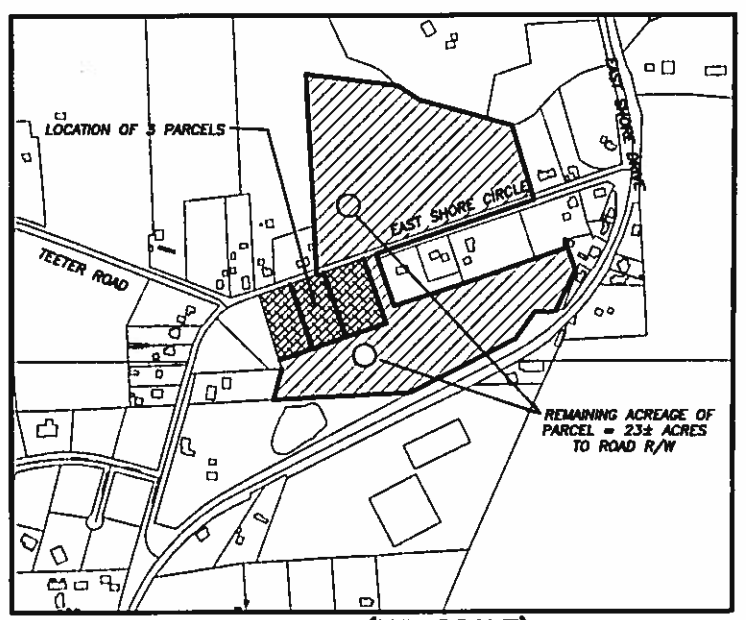
15' R.O.W. RESERVED FOR FUTURE UTLITIES

60' R.O.W. RESERVED FOR FUTURE ROAD

GRIGORIY P. & NATALYA V. PIKULIK (R.O.)
P/O INSTRUMENT No. 2013–13726
TAX MAP No. 37.1–7–12.7
NO. 51 EAST SHORE CIRCLE

WOODS (R.O.)
539613–001
TAX MAP No. 37.1–7–12.1
NO. 83 EAST SHORE CIRCLE

REMAING LANDS OF YOUNG (R.O.)
P/O INSTRUMENT No. 463401–001
P/O TAX MAP PARCEL No. 37.1–7–12.2



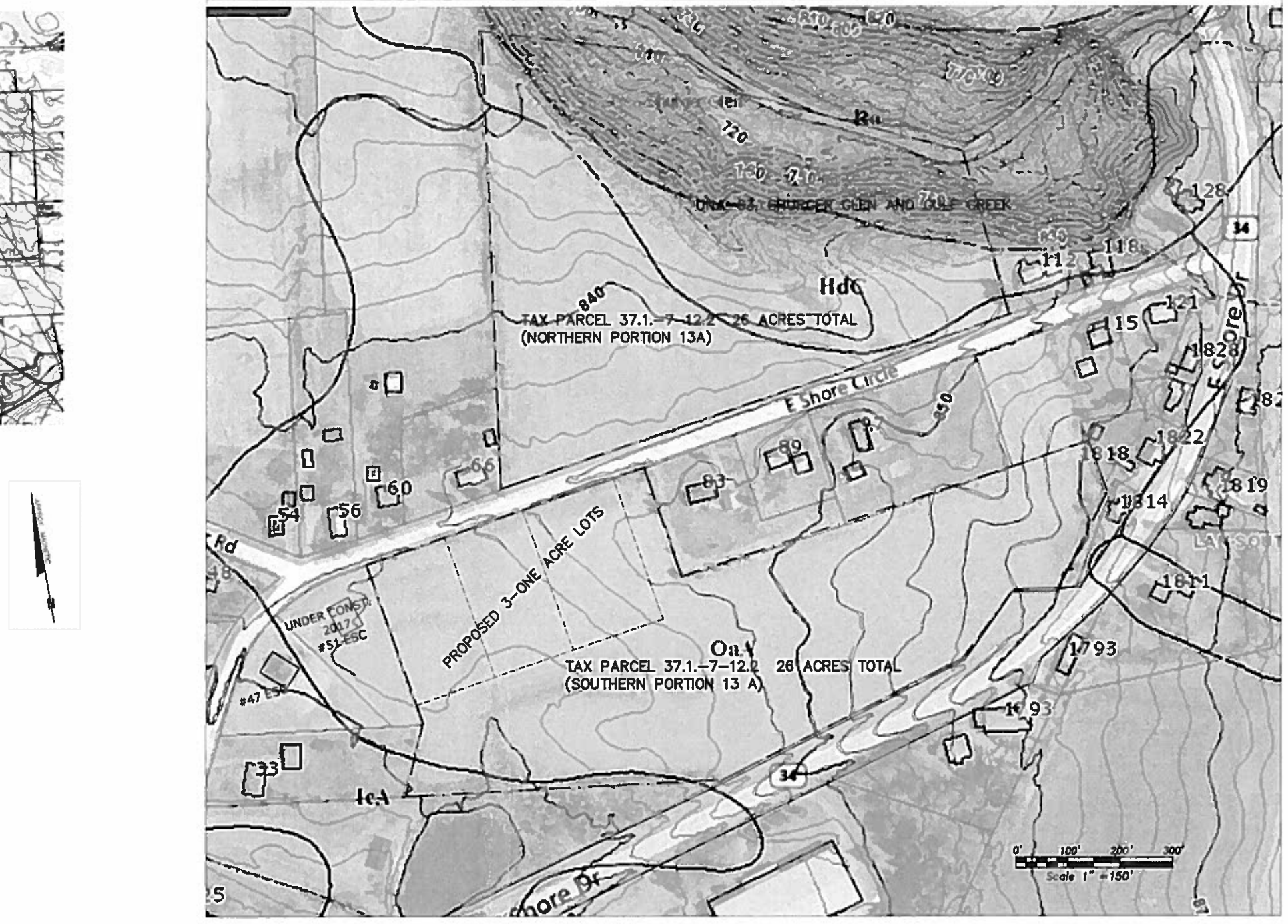
LOCATION MAP (NO SCALE)

TITLE INFORMATION
LOT 1, LOT 2 & LOT 3
JOHN F. YOUNG, SUSAN M. BARNETT,
JAMES R. YOUNG & JULIE R. YOUNG
P/O INSTRUMENT No. 463401–001
P/O TAX MAP No. 37.1–7–12.2

T. G. MILLER P.C.
ENGINEERS AND SURVEYORS
203 NORTH AURORA STREET
ITHACA, NEW YORK 14850
TEL (607)272–6477

TITLE: SURVEY MAP
SHOWING PORTION OF LANDS OF
JOHN F. YOUNG, SUSAN M. BARNETT
JAMES R. YOUNG & JULIE YOUNG
LOCATED ON EAST SHORE CIRCLE
TOWN OF LANSING, TOMPKINS COUNTY, NEW YORK

DATE: 12/1/2017
S17898
SCALE: 1"=60'



EAST SHORE CIRCLE 4-LOT SUBDIVISION

TAX PARCEL 503289-37.1.-7-12.2

EAST SHORE CIRCLE

TOWN OF LANSING COUNTY OF TOMPKINS

for

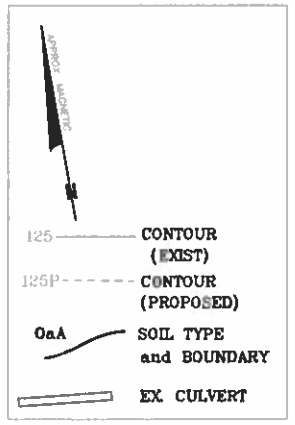
JOHN YOUNG, et al.

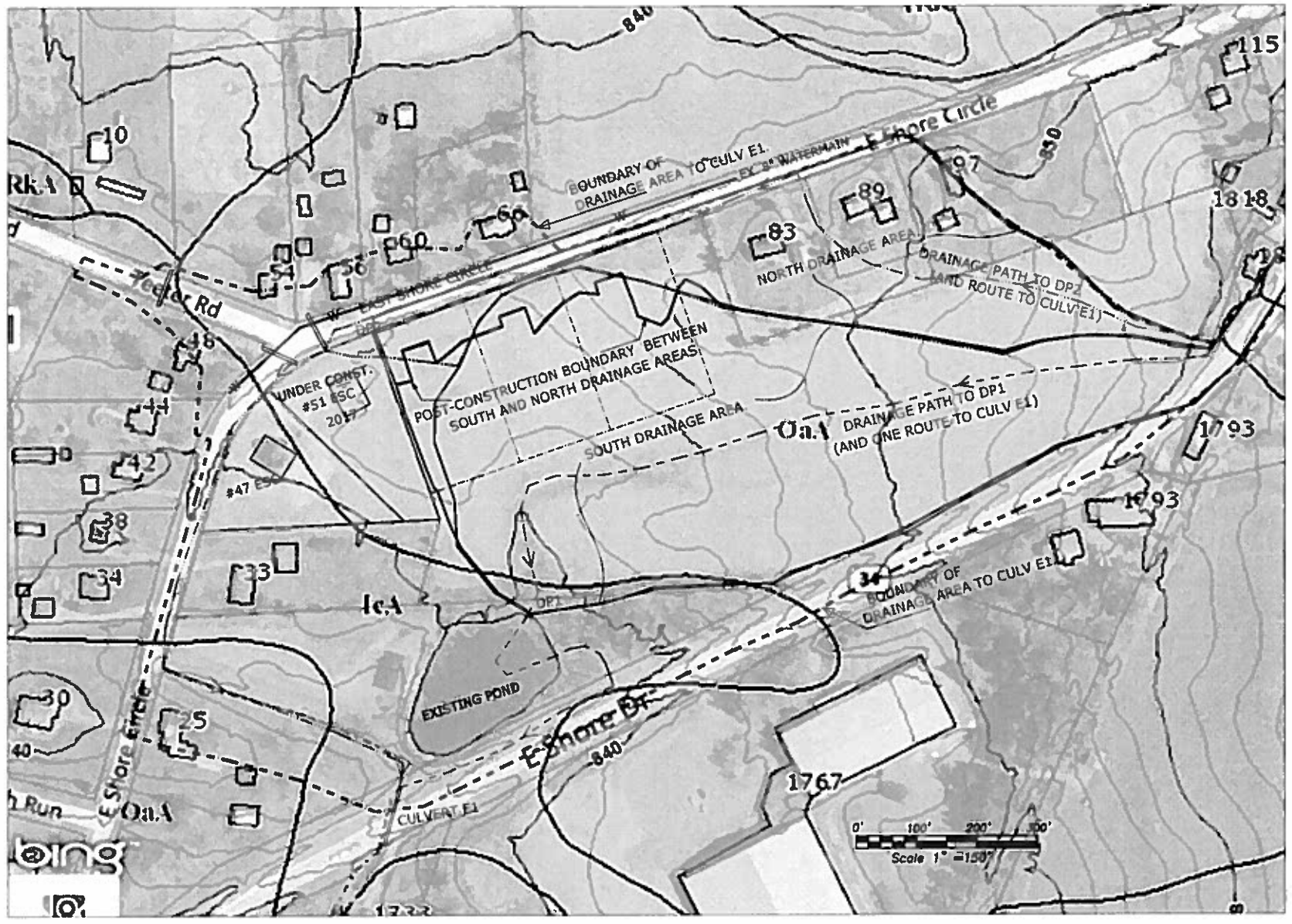
410 TRIPHAMMER ROAD, ITHACA, NY

LIST OF ENGINEERING DRAWINGS.

SHEET 1: COVER SHEET and LOCATION
SHEET 2: EXISTING CONDITIONS and PRE- AND POST-CONSTRUCTION DRAINAGE AREAS
SHEET 3: PLAT OF LOTS
SHEET 4: DEVELOPMENT PLAN
SHEET 5: PERMANENT STORM WATER CONTROL DETAILS
SHEET 6: TEMPORARY STORM WATER CONTROLS- EROSION & SEDIMENT
SHEET 7: EROSION & SEDIMENT CONTROL DETAILS

EAST SHORE CIRCLE 4-LOT SUBDIVISION tax parcel 37.1.-7-12.2 Town of Lansing, County of Tompkins	Project A17 - 119
John M. Andersson, P. E. NYSPE #015610 1 Woodland Road Ithaca, NY 14850 Voice & Fax 607-539-7096 Cell 607-229-8100 J.AnderssonPE@yahoo.com	WARNING: It is a violation of Section 7209 of the New York State Education Law for any person to alter an item on or in this document in any way except an engineer who shall affix to the altered item (her)(his) seal and the notation "altered by" followed by (her)(his) signature and the date of such alteration, and a specific description of the alteration.
Scale 1" = 150' or as noted	Date: December 1, 2017
Sheet Title: Cover Sheet and Location	Sheet No. 1 of 7





PRE– AND POST– CONSTRUCTION DRAINAGE AREAS

DRAINAGE AREAS				
IDENTIFICATION	AREA, ACRES	DISCHARGE POINT	DISCHARGES TO	NOTES
SOUTH AREA	10.3	DP1	POND ON NEIGHBORING LOT; POND DISCHARGES TO NYS RT 34 ROAD DITCH, THEN TO CULVERT E1.	PRE–AREA IS MOSTLY CROPPED FIELD. POST–AREA CONVERTS SOME FIELD TO LOTS 1–3. POST– GAINS SMALL AREA TO WEST AND LOSES SMALL AREA TO NORTH DRAINAGE AREA TO THE NORTH.
NORTH AREA	4.6 pre 4.8 post	DP2	EAST SHORE CIRCLE ROAD DITCH; DITCH DISCHARGES TO WATERCOURSE (NOT STREAM) THAT GOES TO CULVERT E1	PRE–AREA IS PARTIALLY CROPPED FIELD PLUS EXISTING HOMES. POST–AREA GAINS THE AREA OF THE FRONT YARDS OF LOTS 1–3 FROM THE SOUTH DRAINAGE AREA.
AREA TO CULVERT E1	27.4	E1	CULVERT E1 CONTINUES WATERCOURSE (NOT STREAM) FOR 500' THEN BECOMES STREAM ONT86–12–P298–82 JUST NORTH OF WATERWAGON ROAD. STREAM FLOWS TO CAYUGA LAKE. THE STREAM IS CLASSIFIED C.	INCLUDES ALL OF SOUTH PLUS NORTH DRAINAGE AREAS, PLUS AREAS ALONG TEETER ROAD, EAST SHORE CIRCLE, AND EAST SHORE DRIVE (NYS RT 34).

SOILS INFORMATION from USGS Web Soil Survey:
all the soils in the area proposed for lots 1–3 are mapped OaA (Ovid silt loam, 0–6% slope).
OaA is described as somewhat poorly drained, with more than 80" to a vertical restriction, but high ground water table 6–18" deep. Ovid soils are in hydrologic soil group (HSG) C/D and are non–hydric. Typical profile is 0–14" silt loam; 14–24" silty clay loam; 24–60" gravelly loam.
Some soils to the west and south are identified as IcA (Ilion silty clay loam, 0–2% slope).
IcA is described as poorly drained, with more than 80" to a vertical restriction, but high ground water table about 0" deep. Ilion soils are in HSG C/D and are hydric. Typical profile is 0–26" silty clay loam; 26–60" silt loam.

EAST SHORE CIRCLE 4–LOT SUBDIVISION
tax parcel 37.1.–7–12.2 Town of Lansing, County of Tompkins
Project A17 – 119

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Ithaca, NY 14850
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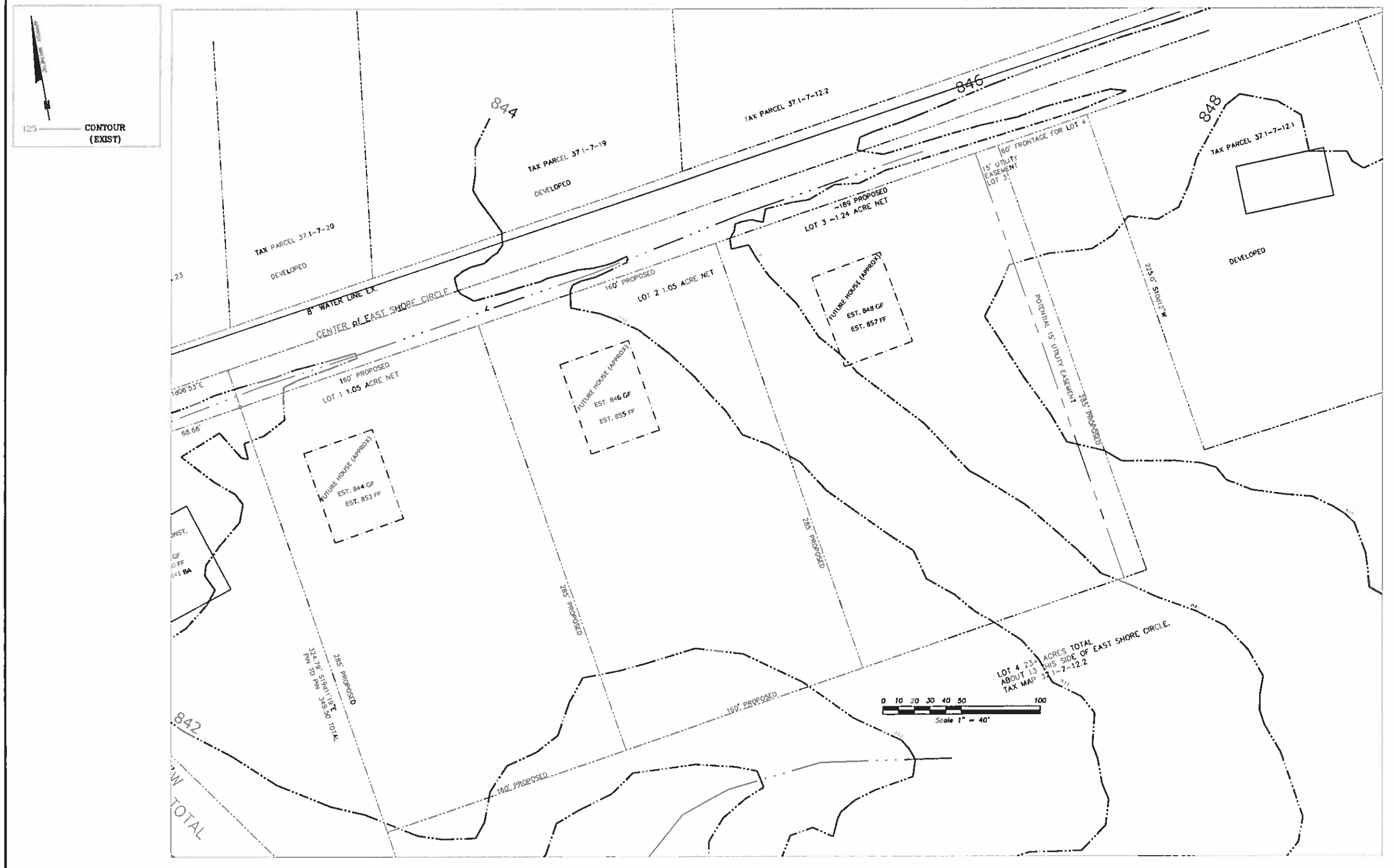
Cell 607–229–6100
J AnderssonPE@yahoo.com

Scale 1" = 150' or as noted
Date: December 1, 2017
Sheet Title: Existing Conditions, Pre– & Post–Construction Drainage Areas
Sheet No. 2 of 7



FINAL SUBDIVISION PLAT TO BE PREPARED BY LICENSED PROFESSIONAL LAND SURVEYOR
THIS PLAT BASED ON PRELIMINARY PLAN BY LEE DRESSER, PLS, T. G. MILLER, P.C.

LOT AREAS	
LOT NUMBER	AREA, ACRES, APPROX.
L1	1.05
L2	1.05
L3	1.24
L4	22.92
TOTAL	26.26

PRELIMINARY

EAST SHORE CIRCLE 4-LOT SUBDIVISION
tax parcel 37.1.-7-12.2 Town of Lansing, County of Tompkins

Project A17 - 119

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Cell 607-229-6100
J AnderssonPE@yahoo.com

Scale 1" = 40' or as noted

Date: December 1, 2017

Sheet Title: S3-Proposed Plat of Lots

Sheet No. 3 of 7

LEGEND:

- EXISTING MONUMENT AS SHOWN
- UTILITY POLE
- O/H OVERHEAD UTILITIES
- U/G UNDERGROUND UTILITIES
- APPROXIMATE BOUNDARY LINE
- SWALE
- HORIZONTAL SEPARATION)
- 825 CONTOUR (EXIST)
- 825P CONTOUR (PROPOSED)

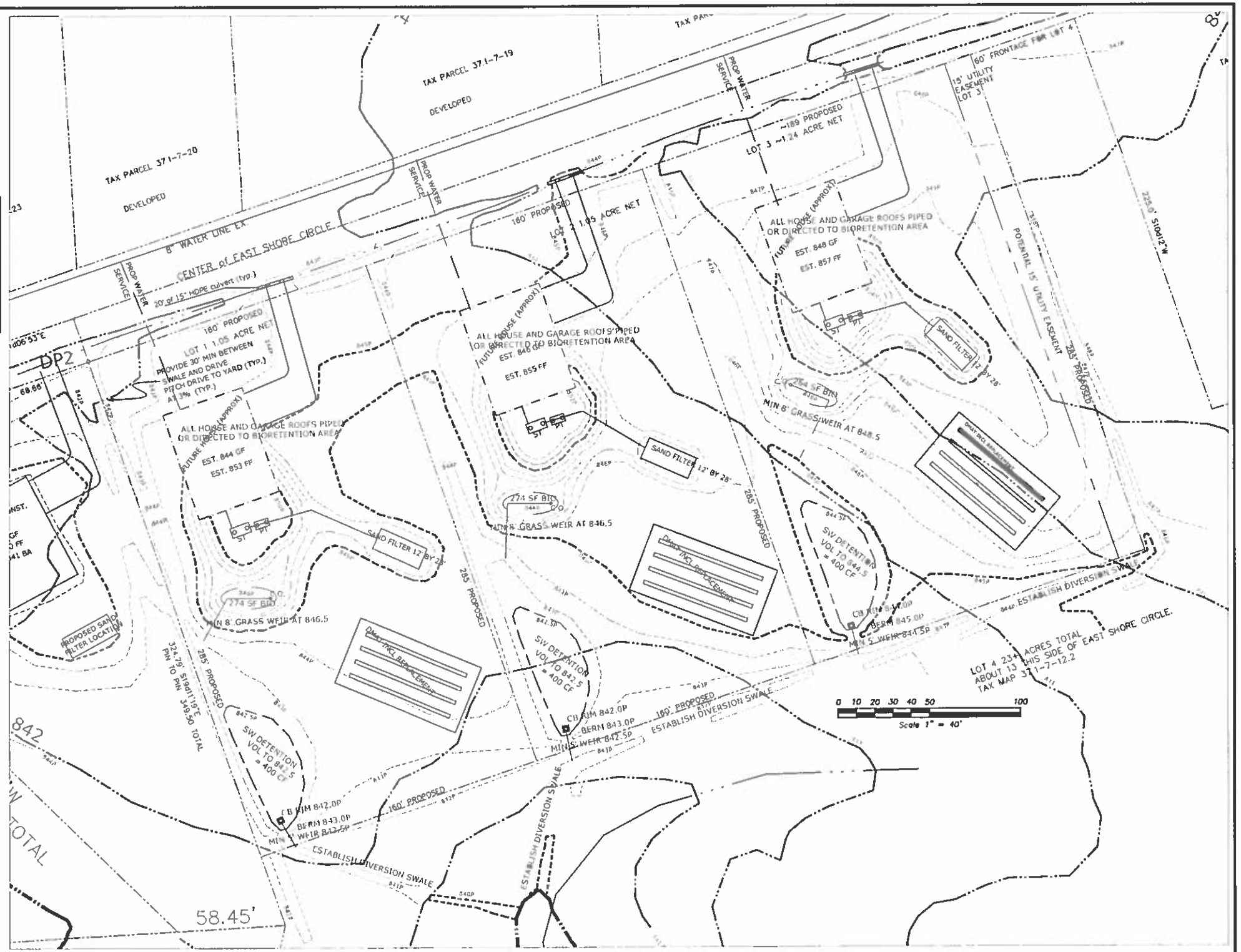
NOTE: Site plan based on: property survey by T. G. Miller, P.C. and Tompkins County GIS. Proposed storm water controls and related information by John M. Andersson, P.E., 2017.

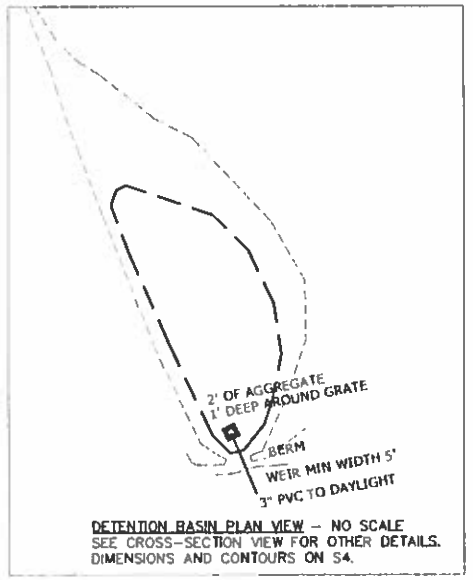
LOT AREAS			
LOT NUMBER	TOTAL AREA, ACRES, APPROX.	USABLE AREA, ACRES, APPROX.	DIAMETER OF CIRCLE FITTING IN USABLE AREA, FT. APPROX.
L1	1.05	1.05	160
L2	1.05	1.05	160
L3	1.24	1.24	180
L4	22.92	NA	NA
USABLE AREA EXCLUDES ROAD EASEMENTS OR R-O-W. EXACT DIMENSIONS AND AREAS TO TO BE DETERMINED BY SURVEY.			

OWTS Construction Notes:

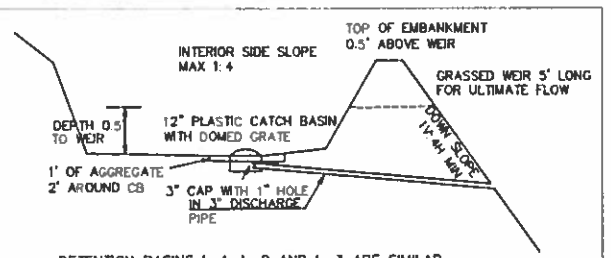
1. Prior to beginning house or OWTS construction, ensure that a Tompkins County Health Department (TCHD) On-Site Wastewater Treatment System (OWTS) Construction Permit is in effect.
2. The OWTS must be located and constructed as shown on the permit. If conditions in the field are different than anticipated, contact the TCHD.
3. Soil from the area of the OWTS must not be removed or filled except as shown on these plans or in the OWTS Construction Permit.
4. Fence the area of the absorption system and replacement area prior to site construction. Keep heavy equipment outside the area to avoid compaction of the soil. Work when the natural soil is dry so it is not compacted or rutted during site clearing or during construction.
5. Maintain horizontal and vertical separations between the OWTS and other features as shown.
6. No parking areas, roads, driveways, structures or impermeable surfaces shall be placed over an OWTS' soil absorption or fill area.
7. All sanitary liquid waste must be disposed to the OWTS. The OWTS must be used only for disposal of liquid sanitary wastes. No hazardous material, storm water or groundwater shall be discharged to the system. All floor drains in the building that could receive oil, paint, or other non-sanitary waste must be plugged with concrete.
8. Establish a grass cover and/or mulch all disturbed soil immediately after construction to control erosion.
9. Contact the TCHD for construction certification when construction begins and again as it nears completion.
10. Follow State law and call Dig Safely New York at 811 or 1-800-962-7962 at least 2 full working days prior to starting any type of excavation or construction work.

See http://www.digsafelynewyork.com





DETENTION BASIN PLAN VIEW – NO SCALE
SEE CROSS-SECTION VIEW FOR OTHER DETAILS. DIMENSIONS AND CONTOURS ON S4.



DETENTION BASINS L-1, L-2 AND L-3 ARE SIMILAR – PROFILE THROUGH DISCHARGE STRUCTURES – NO SCALE
SEE PLAN VIEW FOR OTHER DETAILS.

***FOR USE AS SEDIMENT TRAP DURING CONSTRUCTION, CONSTRUCT TO APPROXIMATE DIMENSIONS FOR DETENTION BASIN, BUT 2' DEEP TO OVERFLOW. INSTALL CATCH BASIN DRAIN AFTER SEDIMENT TRAP IS ABANDONED ON TOP OF AGGREGATE PILE TO REDUCE SETTLING OF CB.

WATER SUPPLY:
EACH LOT 1-3 TO BE PROVIDED SERVICE FROM THE EXISTING MAIN ON THE NORTH SIDE OF EAST SHORE CIRCLE. INDIVIDUAL PRVS MAY BE REQUIRED. 1" SERVICE LINES RECOMMENDED TO METERS.

SEE SHEET S-5 FOR SOIL PREPARATION AND BIORETENTION FEATURE DETAILS

SEWAGE TREATMENT BY INDIVIDUAL ON-SITE WASTEWATER TREATMENT SYSTEMS (OWTS) SHOWN ARE SCHEMATICS OF THE TYPE OF SYSTEM USED ON NEIGHBORING LOTS. CONTACT THE TCHD TO DETERMINE THE EXACT TYPE, SIZE, AND LOCATION OF EACH OWTS BEFORE BEGINNING ANY HOME CONSTRUCTION.

REQUIRED MINIMUM SEPARATION DISTANCES (EXAMPLES)

Sewage System (OWTS) Component	Private Water System Well	Water Service Line or Water Main	Dwelling	Property line	Impermeable Area (uphill or side of AS)	Impermeable Area (downhill of AS)	Watercourse AND Stream	Drainage Swale, Rain Garden or Bioretention Area
Septic Tank (ST) (and Pump Tank (PT)if required)	50'	10'	10'	10'	N.A.	N.A.	50'	10'
Distribution Box	100'	10'	10'	10'	N.A.	N.A.	50'	20'
Sand Filter and Absorption System Area	100'	10'	20' (50' if dwelling is immediately downslope)	10'	10'	20'	100'	20'

EAST SHORE CIRCLE 4-LOT SUBDIVISION
tax parcel 37.1-7-12.2 Town of Lansing, County of Tompkins
Project A17 – 119

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J.AnderssonPE@yahoo.com

Scale 1" = 40' or as noted
Date: December 1, 2017
Sheet Title: S4-Development Plan
Sheet No. 4 of 7

LEGEND:
- EXISTING MONUMENT AS SHOWN
- UTILITY POLE
- O/H OVERHEAD UTILITIES
- U/G UNDERGROUND UTILITIES
- APPROXIMATE BOUNDARY LINE
- SWALE
- HORIZONTAL SEPARATION)
- 825 CONTOUR (EXIST)
- 825P CONTOUR (PROPOSED)

NOTE: Site plan based on: property survey by T. G. Miller, PC, and Tompkins County GIS. Proposed storm water controls and related information by John M. Andersson, P.E., 2017.

TOP SOIL PREPARATION AND SEEDING AND PLANTING
The purpose of preparing the planting soil layers is to establish grasses, legumes, vines, shrubs and trees to increase the atractiveness of the area and to protect the soil and plant resources.

The topsoil sub-base will be prepared as described in Soil Restoration, then scarified to ensure topsoil adhesion. Topsoil shall be distributed to a uniform depth of at least 4" over the area. It will not be placed when it is partly frozen, muddy, or on frozen slopes or over ice, snow, or standing water. Topsoil will be promptly fertilized, seeded, and mulched.
Topsoil shall have 6-20% stable organic matter; not less than 20% passing a #200 sieve but not more than 15 % clay, less than 10% gravel, relatively free of stones over 1 1/2" in diameter, trash and noxious weeds. Soluble salts must e les than 500 ppm. Establish pH of 5.2 to 7.0.

Seed mixture for recreation and lawn areas: 65% Kentucky bluegrass blend; 20% perennial ryegrass, 15% fine fescue. Apply at 3-4 pounds per 1000 square feet. Best time for seeding is spring until May 15 and fall after August 15.
Seed mixture for temporary stabilization of soils is annual ryegrass applied at 0.7 pounds per 1000 sq ft; mulch as described below.

Fertilizing:
First year: apply as indicated by results from a soil test; or 1 pound nitrogen per 1000 sq ft using a complete fertilizer with a 2-1-1 ratio. For future fertilizing use no phosphorus.
Hydroseeding with mulch is recommended, but straw or hay mulch is acceptable.

Mulching:
Hay or straw mulch: air dried; free of udesirable seeds and coarse materials; apply at 90-100 pounds per 1000 sq ft (2-3 bales). Chop or anchor; if blown off by wind replace.

Other plants:
Use native shrubs and trees for landscaping. Follow recommended guidelines for planting and mulching. The mulch layer should be standard landscape style, single or double, shredded hardwood mulch or chips. The mulch layer should be well aged (stockpiled or stored for at least 12 months), uniform in color, and free of other materials, such as weed seeds, soil, roots, etc. The mulch should be applied to a maximum depth of three inches. Grass clippings should not be used as a mulch material.

Native shrubs include: Witch Hazel *Hamemelis virginiana*, Winterberry *Ilex verticillata*, Arrowwood *Viburnum dentatum*, Brook-side Alder *Alnus serrulata*, Red-Osier Dogwood *Cornus stolonifera*, Sweet Pepperbush *Clethra alnifolia*; Swamp Rose (Rosa Palustrus) Silky Dogwood (Cornus amomium), River Birch(Betula nigra), Elderberry (Sambucus canadensis), and Common Spice Bush (Lindera benzoin).
Native trees include: Black Cherry (Prunus serotina), Blackgum or Sourgum (Nyssa sylvatica), Eastern Hemlock (Tsuga canadensis), Hackenberry(Celtis occidentalis), Red Maple (Acer rubrum), Shadowbush, Serviceberry (Amelanchier canadensis), Sweetgum (Liquidambar styraciflua), Tulip Tree(Liriodendron tulipifera).

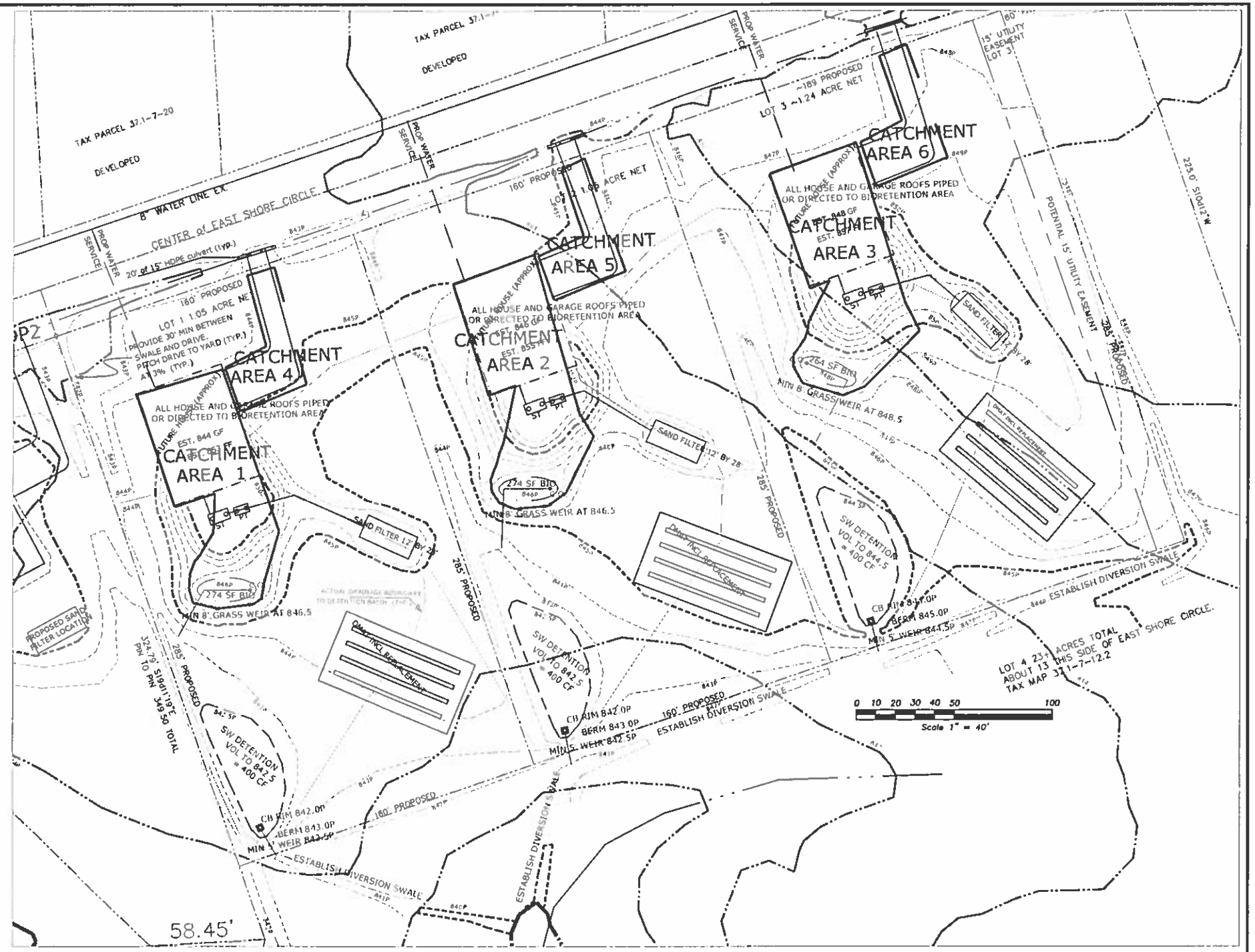
PLANTING MEDIA FOR BIORETENTION FEATURES
The planting media should be a sandy loam, loamy sand, loam or loam/sand mix. The required permeability is at least 1.0 feet per day (0.5"/hr), although the more conservative 0.5 feet per day is used for design.

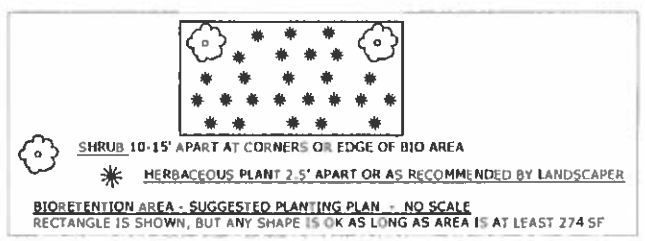
The soil should be free of stones, stumps, roots or other woody material larger than 1" in diameter, and brush or seeds from noxious weeds.

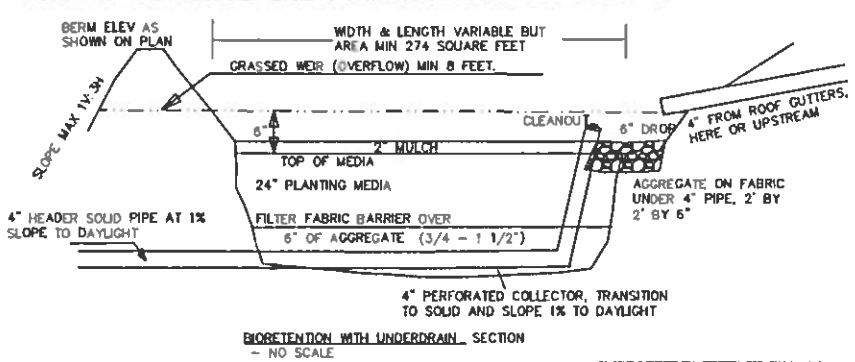
Place the material in lifts of 12 to 18", and loosely compact with a dozer or backhoe bucket.

The following Planting Media Characteristics are from Table H.2 of the NYS Stormwater Design Manual, modified by training provided by J. Dunkle,P.E., March 2013.

PARAMETER	VALUE
pH Range	5.2 to 7.0
Organic Matter	3 to 5 %
Magnesium	35 lbs. pre acre, minimum
Phosphorus (P_2O_5)	75 lbs. pre acre, minimum
Soluble Salts	Less than 500 ppm
Clay	5-10%
Silt	0-10%
Clay + Silt	8-12% combined
Sand	85-88%







BIORETENTION WITH UNDERDRAIN SECTION - NO SCALE

Table 5.11 Suggested Bioretention Plant List

Shrubs
- Witch Hazel *Hamemelis virginiana*
- Winterberry *Ilex verticillata*
- Arrowwood *Viburnum dentatum*
- Brook-side Alder *Alnus serrulata*
- Red-Osier Dogwood *Cornus stolonifera*
- Sweet Pepperbush *Clethra alnifolia*

Herbaceous Plants
- Cinnamon Fern *Osmunda cinnamomea*
- Cutleaf Coneflower *Rudbeckia laciniata*
- Woolgrass *Scirpus cyperinus*
- New England Aster *Aster novae-angliae*
- Fox Sedge *Carex vulpinoidea*
- Spotted Joe-Pye Weed *Eupatorium maculatum*
- Switch Grass *Panicum virgatum*
- Great Blue Lobelia *Lobelia siphatica*
- Wild Bergamot *Monarda fistulosa*
- Red Milkweed *Asclepias incarnate*

Adapted from NYSDEN Bioretention Specifications, Bannerman, Brooklyn Botanic Garden.

SCHEDULE OF PERMANENT STORM WATER QUALITY CONTROLS

PRACTICE ID	CATCHMENT AREA	LOCATION	IMPERMEABLE AREA TREATED	DIMENSIONS	NOTES
BIORETENTION	C1, C2, C3	EACH LOT 1, 2, 3 REAR YARD	ROOF OF HOUSE AND GARAGE, PATIO, ETC.	274 SF MINIMUM MEDIA 2' DEEP	4" UNDERDRAIN DAYLIGHTS TOWARDS DETENTION BASIN.
DISCONNECTION OF IMPERMEABLE AREA	C4, C5, C6	EACH LOT 1, 2, 3 ADJACENT TO DRIVEWAY	DRIVEWAYS AND PARKING AREA	MINIMUM 30' OF GRASS AREA TO LOT LINE SWALE.	SLOPE DRIVE TO DRAIN TO GRASSED AREAS AT SIDES, NOT DIRECTLY TO ROAD DITCH.
OWNERS MAY ALSO INSTALL RAIN BARRELS AND PLANT ADDITIONAL TREES AND SHRUBS TO CAPTURE AND TREAT STORM WATER WITH NO REVISION TO THE SWPPP					

SEE SHEET S-4 FOR DEVELOPMENT PLAN and OTHER PERMANENT STORM WATER FEATURES

MULCH FOR BIORETENTION FEATURES
The mulch should be standard landscape style, single or double shredded hardwood mulch or chips. The mulch should be well aged (stockpiled or stored for at least 12 months), uniform in color, and free of other materials, such as weeds, weed seeds, soil, roots, etc. The mulch should be applied to a maximum depth of 3 inches. Grass clipping should not be used a mulch.

STATE OF NEW YORK JOHN M. ANDERSSON 091419 LICENSED PROFESSIONAL ENGINEER

EAST SHORE CIRCLE 4-LOT SUBDIVISION
tax parcel 37.1.-7-12.2 Town of Lansing, County of Tompkins
Project A17 - 119

John M. Andersson, P. E.
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Ithaca, NY 14850
Voice & Fax 607-539-7096
Cell 607-229-6100
J.AnderssonPE@yahoo.com

Scale 1" = 40' or as noted
Date: December 1, 2017
Sheet Title: S5-Permanent Storm Water Details
Sheet No. 5 of 7

LEGEND:

- EXISTING MONUMENT AS SHOWN
- UTILITY POLE
- R.O. REPUTED OWNER
- O/H OVERHEAD UTILITIES
- U/C UNDERGROUND UTILITIES
- APPROXIMATE BOUNDARY LINE
- SWALE
- 125 CONTOUR (EXIST)
- 125P CONTOUR (PROPOSED)
- SILT FENCE
- STABILIZED ENTRANCE
- CONCRETE WASHOUT

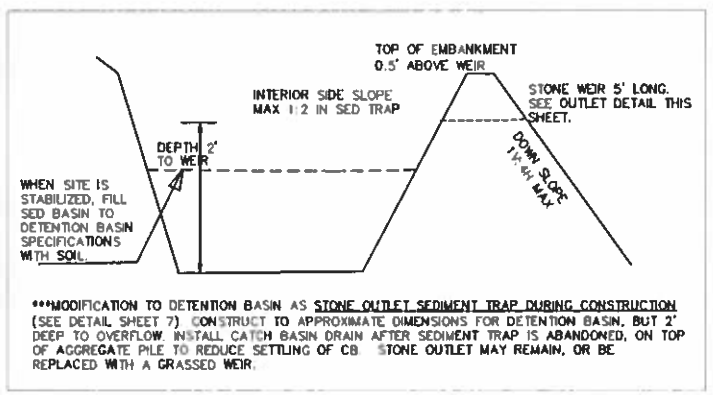
DISTURBED AREAS		
LOT #	TOTAL AREA, Ac.	POTENTIALY DISTURBED AREA, Ac.
1	1.05	1.05
2	1.05	1.05
3	1.24	1.20
4	22.92	0.5
TOTAL	26.26	3.8
THE MAJORITY OF EACH LOT MUST BE DISTURBED IN ORDER TO CONSTRUCT HOMES, OWTS, AND CONTROL AND TREAT STORMWATER.		
DO NOT DISTURB MORE THAN 5 ACRES AT ANY ONE TIME WITHOUT SPECIFIC AUTHORIZATION BY THE TOWN OF LANSING. (UNLIKELY TO HAPPEN AS THE TOTAL DISTURBANCE IS LESS THAN 5 ACRES.)		

SCHEDULE OF EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION

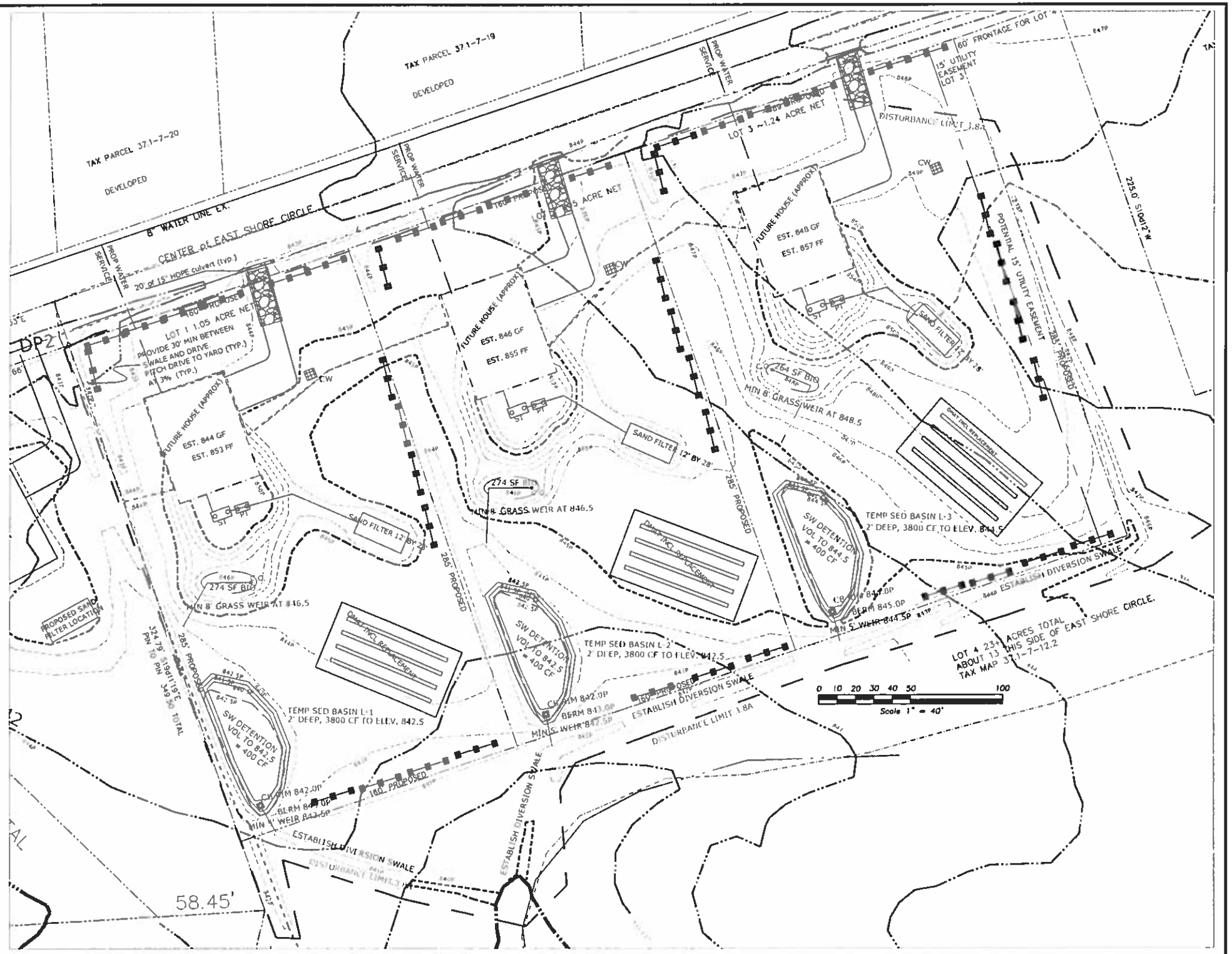
PRACTICE ID	LOCATION	VOLUME PROVIDED (REQ'D) CF	DIMENSIONS	NOTES
DIVERSION SWALE	EAST AND SOUTH OF DEVELOPMENT AREA	NA	1' DEEP, 3' WIDE, 625' LONG	BECOMES PERMANANT DRAINAGE SWALE. SEE DETAIL SHEET 7.
STABILIZED CONSTRUCTION ENTRANCE	ONE ON EACH OF 3 LOTS AT TIME OF LOT DISTURBANCE.	NA	12' BY 30' MIN	SEE DETAIL SHEET 7
ROCK CHECK DAMS	WHERE NEEDED AS SWALES /DITCHES ARE CREATED (1)	NA		SEE DETAIL SHEET 7
SILT FENCE	WHERE NEEDED DOWNSLOPE OF SOIL DISTURBANCE AND SOIL STOCKPILES (1)	NA		SEE DETAIL SHEET 7
TEMP. SEEDING /MULCHING	ALL DISTURBED AREAS NOT CURRENTLY WORKED	NA	NA	annual ryegrass applied at 0.7 pounds per 1000 sq ft; mulch with hay or straw at 90-100 pounds per 1000 sq ft (2-3 bales). Chop or anchor; replace if blown off by wind.
TSB-L1 (DB-L1)	LOT 1	3000 (3800)	2000 SF SURFACE, 2' DEEP	SEE DETAIL BELOW AND SHEET 7
TSB-L2 (DB-L2)	LOT 2	3000 (3800)	2000 SF SURFACE, 2' DEEP.	SEE DETAIL BELOW AND SHEET 7
TSB-L3 (DB-L3)	LOT 3	3000 (3800)	2000 SF SURFACE, 2' DEEP	SEE DETAIL BELOW AND SHEET 7
TSB-OTHER	AS NEEDED	TO BE DETERMINED	TO BE DETERMINED	VOLUME = 3600 CF PER ACRE OF DRAINAGE WEIR, FT, = 4 TIMES THE D.A.

(1) SUGGESTED LOCATIONS SHOWN ON PLAN. ACTUAL SCHEDULE OF CONSTRUCTION WILL DETERMINE FINAL LOCATIONS.
REFERENCE FOR CONTROLS: " NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL DESIGN MANUAL", 2016.

NOTE: OTHER TEMPORARY MEASURES MAY BE CONSTRUCTED IF NEEDED. DETAILS OF MEASURES AVAILABLE IN NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL DESIGN MANUAL, 2016. CONTACT ENGINEER.



***MODIFICATION TO DETENTION BASIN AS STONE OUTLET SEDIMENT TRAP DURING CONSTRUCTION (SEE DETAIL SHEET 7) CONSTRUCT TO APPROXIMATE DIMENSIONS FOR DETENTION BASIN, BUT 2' DEEP TO OVERFLOW. INSTALL CATCH BASIN DRAIN AFTER SEDIMENT TRAP IS ABANDONED, ON TOP OF AGGREGATE PILE TO REDUCE SETTLING OF CB. STONE OUTLET MAY REMAIN, OR BE REPLACED WITH A GRASSED WEIR.



SOIL STOCKPILE AREAS

- Because nearly the entire area of Lots 1-3 is expected to be filled and raised, soil stockpiles will be anywhere, so no specific area is shown. Keeping a silt fence below any pile, and stabilizing every pile, will be important to control erosion and sedimentation.

SOIL RESTORATION

Soil restoration is required to restore the soil porosity where soils have been disturbed and compacted but will become vegetated. Some areas may be compacted during construction, but the main areas to be restored are the existing impermeable fill areas that will become green spaces.

Existing Impermeable Converted to Permeable (NONE ON THIS PROJECT):

Existing Permeable Areas Compacted During Construction:
At least the upper 12" of soil will be examined and loosened if necessary to restore permeability.

Soil can be loosened by an excavator's bucket teeth, lifted up and redeposited; or other methods. The site is too small to use a large deep ripper machine.

Final test for permeability will be to hand push a 3/8" smooth rod into the ground after topsoil placement. The depth of penetration should be 12". Tests prior to placement of topsoil should be done, penetrating at least 8".

WINTER OPERATIONS (NOVEMBER 15 THROUGH APRIL 1)

If soil will be disturbed during winter, defined as November 15 through April 1, then the Design Standards for Winter Stabilization must be implemented. See the engineering plans and the New York State Standards and Specifications for Erosion and Sediment Control (2016) for details. Requirements include:

- A snow management plan to provide snow storage and control of melt run off;
- A construction buffer of 25' to all silt fences; silt fences marked with tall stakes.
- Soil stockpiles and disturbed areas stabilized by next business day.
- Straw mulch applied at double the standard rate, to 4 tons per acre.

NOTE: SEE SHEET S7 FOR ADDITIONAL DETAILS

STATE OF NEW YORK * JOHN M. ANDERSSON * 081561 * LICENSED PROFESSIONAL ENGINEER

EAST SHORE CIRCLE 4-LOT SUBDIVISION
tax parcel 37.1-7-12.2 Town of Lansing, County of Tompkins
Project A17 - 119

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Scale 1" = 40' or as noted
Date: December 1, 2017
Sheet Title: S6-Temporary Storm Water Controls - E&SC
Sheet No. 6 of 7

CONSTRUCTION SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
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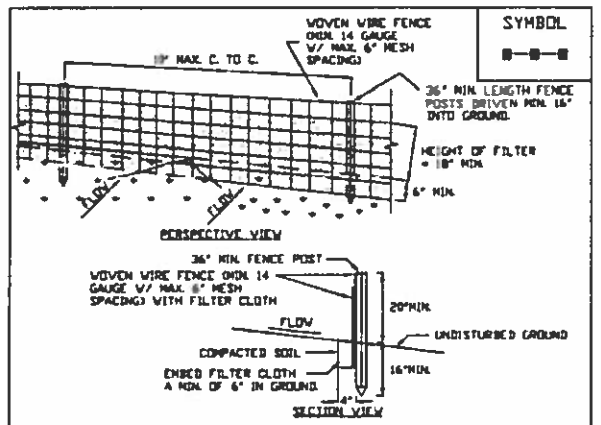
LANDGRADING SPECIFICATIONS



CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL MEET THE MINIMUM REQUIREMENTS SHOWN.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
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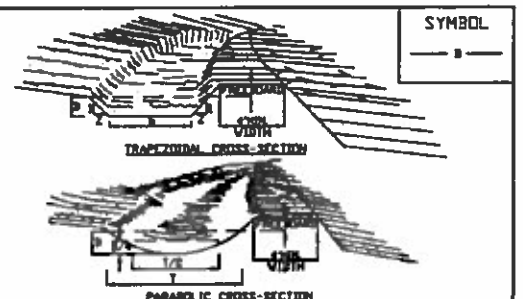
REINFORCED SILT FENCE



CONSTRUCTION SPECIFICATIONS

1. ALL TREES, BRUSH, STUMPS, CONSTRUCTIONS, AND OTHER OBJECTIONABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE DIVERSION.
2. THE DIVERSION SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE DIVERSION.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE DIVERSION.
5. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARD AND SPECIFICATIONS FOR VEGETATIVE PRACTICES.
   A. FOR DESIGN VELOCITIES OF LESS THAN 3.5 FT. PER SEC., SEEDING AND MULCHING MAY BE USED FOR THE ESTABLISHMENT OF THE VEGETATION. IT IS RECOMMENDED THAT, WHEN CONDITIONS PERMIT, TEMPORARY DIVERSIONS OR OTHER MEANS SHOULD BE USED TO PREVENT WATER FROM ENTERING THE DIVERSION DURING THE ESTABLISHMENT OF THE VEGETATION.
   B. FOR DESIGN VELOCITIES OF MORE THAN 3.5 FT. PER SEC., THE DIVERSION SHALL BE STABILIZED WITH SOD, WITH SEEDING PROTECTED BY JUTE OR EXCELSIOR MATTING OR WITH SEEDING AND MULCHING INCLUDING TEMPORARY DIVERSION OF THE WATER UNTIL THE VEGETATION IS ESTABLISHED.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
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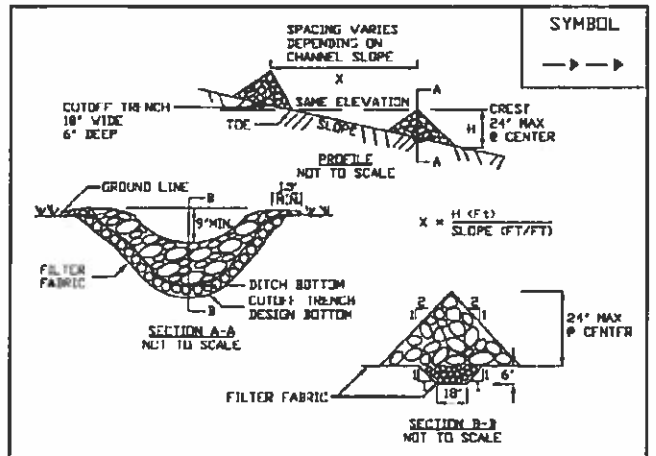
DIVERSION



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
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STONE CHECK DAM

STANDARD AND SPECIFICATIONS FOR WINTER STABILIZATION

Definition & Scope

A temporary site specific, enhanced erosion and sediment control plan to manage runoff and sediment at the site during construction activities in the winter months to protect off-site water resources.

Conditions Where Practice Applies

This standard applies to all construction activities involved with ongoing land disturbance and exposure between November 15th to the following April 1st.

Design Criteria

1. Prepare a snow management plan with adequate storage for snow and control of melt water, requiring cleared snow to be stored in a manner not affecting ongoing construction activities.
2. Drainage and stabilize access points to provide for snow management and stockpiling. Snow management activities must not destroy or degrade installed erosion and sediment control practices.
3. A minimum 25 foot buffer shall be maintained from all perimeter controls such as silt fence. Inlet silt fence with silt stakes that are visible above the snow pack.
4. Edges of disturbed areas that drain to a waterbody within 100 feet will have 2 rows of silt fence, 3 feet apart installed on the contour.
5. Drainage structures must be kept open and free of snow and ice dams. All debris, ice dams, or debris from plowing operations, that restrict the flow of runoff and meltwater, shall be removed.
6. Sediment barriers must be installed at all appropriate perimeter and sensitive locations. All snow and other practices requiring earth disturbance must be installed before the ground freezes.
7. Soil stockpiles must be protected by the use of established vegetation, anchored straw mulch, soil soil stabilization matting, or other durable screening. A barrier must be installed at least 15 feet from the toe of the stockpile to prevent soil migration, and to capture loose soil.
8. In areas where soil disturbance activity has temporarily or permanently ceased, the application of soil stabilization measures should be initiated by the end of the next business day and completed within three (3) days. Rolled erosion control blankets must be used on all slopes 3 horizontal to 1 vertical or steeper.
9. If straw mulch alone is used for temporary stabilization, it shall be applied at double the standard rate of 2 tons per acre, making the application rate 4 tons per acre. Other manufactured mulches should be applied at double the manufacturer's recommended rate.
10. To ensure adequate stabilization of disturbed soil in advance of a melt event, areas of disturbed soil should be stabilized at the end of each work day unless:
    a. work will resume within 24 hours of the same area and no precipitation is forecast, or,
    b. the work is in disturbed areas that collect and retain runoff, such as open utility trenches, foundation excavations, or water management areas.
11. Use snow paths to stabilize access perimeters of buildings under construction and areas where construction vehicle traffic is anticipated. Snow paths should be a minimum 10 feet in width but wider as necessary to accommodate equipment.

Maintenance

The site shall be inspected frequently to ensure that the erosion and sediment control plan is performing its winter stabilization function. If the site will not have earth disturbing activities ongoing during the "winter season", all bare exposed soil must be stabilized by established vegetation, straw or other acceptable mulch, matting, rock, or other approved materials such as rolled erosion control products. Seeding of areas with no ch cover is preferred but seeding alone is not acceptable for proper stabilization.

Compliance inspections must be performed and reports filed properly in accordance with the SWPPP for all areas under winter shutdown.

STANDARD AND SPECIFICATIONS FOR CONCRETE TRUCK WASHOUT

Definition & Scope

A temporary excavated or above ground lined constructed pit where concrete truck mixers and equipment can be washed after their loads have been discharged, to prevent highly alkaline runoff from entering storm drainage systems or leaching into soil.

Conditions Where Practice Applies

Washout facilities shall be provided for every project where concrete will be poured or otherwise formed on the site. This facility will receive highly alkaline wash water from the cleaning of chutes, mixers, hoppers, vibrators, placing equipment, trowels, and screeds. Under no circumstances will wash water from these operations be allowed to sit, enter onto the soil or enter surface waters.

Design Criteria

Capacity: The washout facility should be sized to contain solids, wash water, and rainfall and sized to allow for the evaporation of the wash water and rainfall. Wash water shall be estimated at 7 gallons per chute and 50 gallons per hopper of the concrete pump truck, and/or discharging drum. The minimum size shall be 8 feet by 4 feet at the bottom and 2 feet deep. If excavated, the side slopes shall be 2 horizontal to 1 vertical.

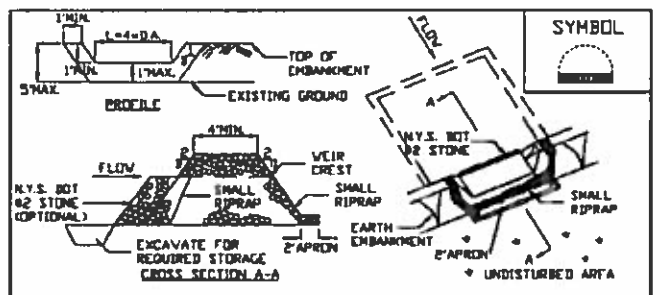
Location: Locate the facility a minimum of 100 feet from drainage swales, storm drain inlets, wetlands, streams and other surface waters. Prevent surface water from entering the structure except for the access road. Provide appropriate access with a gravel access road sloped down to the structure. Signs shall be placed to direct drivers to the facility after their load is discharged.

Liner: All washout face liners will be lined to prevent leaching of liquids into the ground. The liner shall be plastic sheeting with a minimum thickness of 10 mils with no holes or tears, and anchored beyond the top of the pit with an earthen berm, sand bags, stone, or other structural appurtenance except at the access point.

If pre-fabricated washouts are used they must ensure the capture and containment of the concrete wash and be sized based on the expected frequency of concrete pours. They shall be sited as noted in the location criteria.

Maintenance

- All concrete washout facilities shall be inspected daily. Damaged or leaking facilities shall be deactivated and repaired or replaced immediately. Excess rainwater that has accumulated over hardened concrete should be pumped to a stabilized area, such as a grass filter strip.
- Accumulated hardened material shall be removed when 75% of the storage capacity of the structure is filled. Any excess wash water shall be pumped into containment vessel and properly disposed of off-site.
- Dispose of the hardened material off-site to a construction/demolition landfill. On-site disposal may be allowed if this has been approved and accepted as part of the projects SWPPP. In that case, the material should be crushed as specified, or buried and covered with a minimum of 2 feet of clean compacted earthfill that is permanently stabilized to prevent erosion.
- The plastic liner shall be replaced with each cleaning of the washout facility.
- Inspect the project site frequently to ensure that no concrete discharges are taking place in non-designated areas.



OPTION: A UNIFORM LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

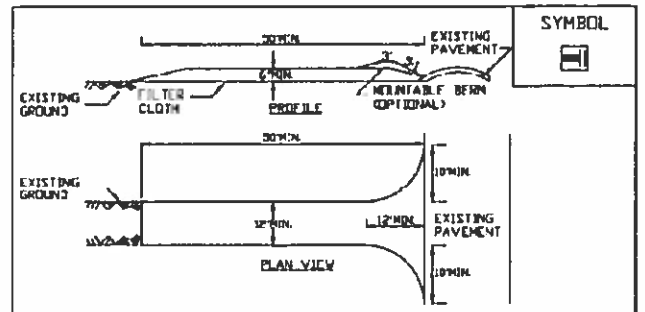
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 8" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

MAXIMUM DRAINAGE AREA 5 ACRES

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STONE OUTLET SEDIMENT TRAP ST-II



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS,
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
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STABILIZED CONSTRUCTION ACCESS

NOTE: OTHER TEMPORARY MEASURES MAY BE CONSTRUCTED IF NEEDED. DETAILS OF MEASURES AVAILABLE IN NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL DESIGN MANUAL, 2016. CONTACT ENGINEER.

EAST SHORE CIRCLE 4-LOT SUBDIVISION
tax parcel 37.1-7-12.2 Town of Lansing, County of Tompkins

Project A17 - 119

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Scale NONE | Date: December 1, 2017

Sheet Title: S7-BASC DETAILS | Sheet No. 7 of 7