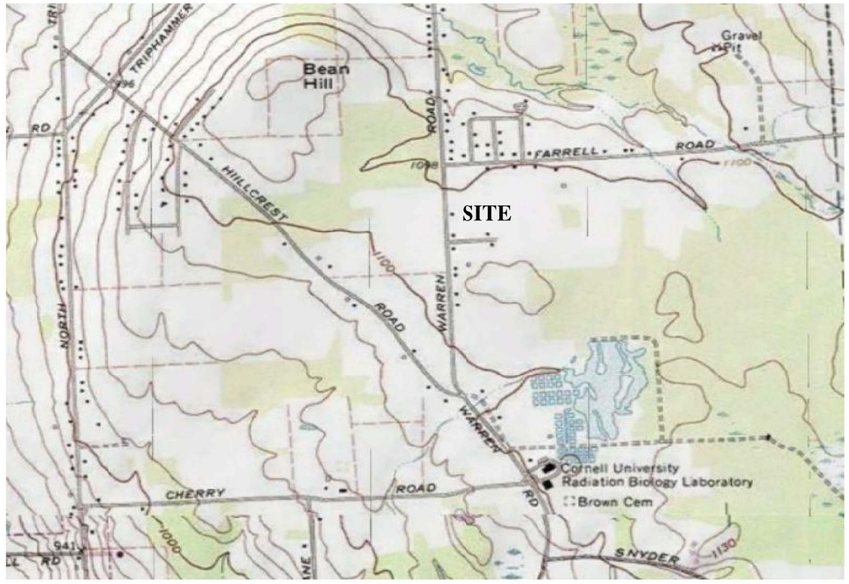
VILLAGE CIRCLE-VILLAGE SOLARS PDA - PHASE VII
1067 WARREN ROAD
LANSING (T), NEW YORK

PLANNING/ZONING DATA - PHASE VII

SITE ZONING :	R-2 WITH 572 UNIT PDA
SITE AREA:	5.31 ACRES
PROP. IMPERMEABLE:	2.55 ACRES
PROP. OPEN SPACE:	2.76 ACRES
% OPEN SPACE:	52%
PROP. # OF UNITS:	138
PROPOSED PARKING SPACES:	210
PARKING SPACES/UNIT:	1.5



• LOCATION MAP •

N.T.S.

INDEX OF DRAWINGS

PREPARED FOR:

LUCENTE HOLDINGS, LLC.
1067 WARREN ROAD, SUITE B
LANSING, NY 14882

DATE: MAY 20, 2022

PREPARED BY:

TIMOTHY C . BUHL P.E.
35 FIRE LANE 24
AUBURN, NY 13021

EXISTING SITE PLAN

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

REVISIONS

No.	Date	S'M.	Description

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: 1"=60'
DRAWN: SDG
JOB:
SHEET: ST-1

Warren Rd
C/L WARREN ROAD
VILLAGE CIRCLE NORTH
VILLAGE PLACE
Village Circle South
EXISTING 10" DIP WATERMAIN
EXISTING 8" DIP
EXISTING 8"SDR PVC
EXISTING 16"DIP
4" SEWER FORCE MAIN
6"Ductile Iron Pipe
8" WATERMAIN (BY TOWN)
WATERMAIN BY DEVELOPER
PAVED WALKWAY
11PAVED
POND 1
POND 2
STONE DRIVEWAY & PARKING
18 UNIT BLDG. MODIFIED TO 20 UNITS
Existing Dog Park
BUMP STA
15" ADS
DUMPSTER
MATCH LINE
MATCH LINE

T.P. 39-1-38.9
R.O. ROCCO LUCENTE
(642/238)

T.P. 39-1-38.16
R.O. LUCENTE HOLDINGS INC.
(811/283)

T.P. 39-1-38.8
R.O. LUCENTE HOLDINGS INC.
(895/150)
1.19 ACRES

T.P. 39-1-38.13
R.O. LUCENTE HOLDINGS INC.
(867/284)

T.P. 39-1-38.15
R.O. LUCENTE HOLDINGS INC.
(867/284)

PART OF T.P.39-1-38.2
R.O. ROCCO P. LUCENTE
(INSTR#510428-001)

T.P.39-1-38.2

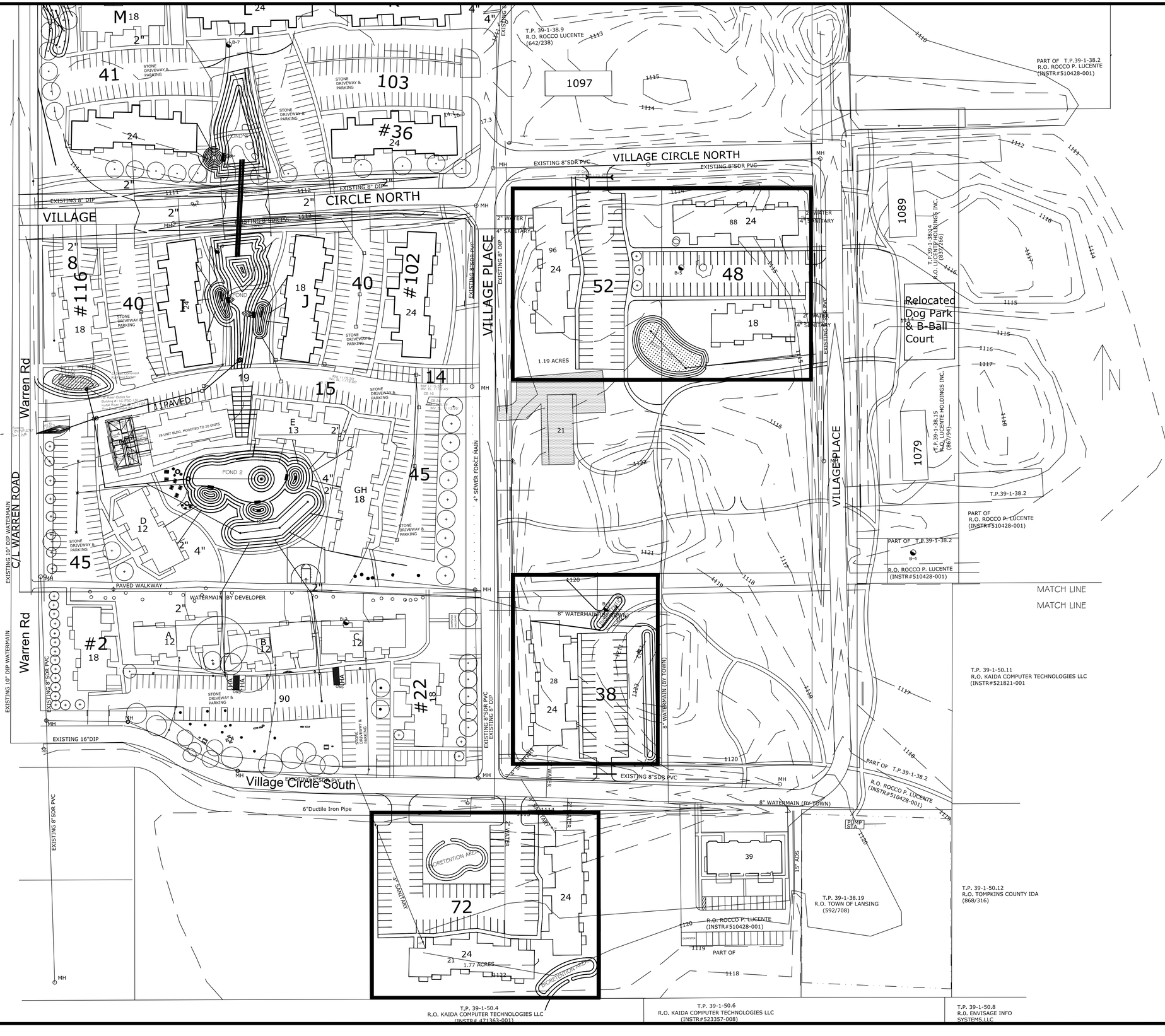
T.P. 39-1-38.19
R.O. TOWN OF LANSING
(592/708)

T.P. 39-1-50.12
R.O. TOMPKINS COUNTY IDA
(868/316)

T.P. 39-1-50.11
R.O. KAIDA COMPUTER TECHNOLOGIES LLC
(INSTR#521821-001

R.O. LUCENTE HOLDINGS, INC.
T.P.39-1-38.11
(764/311)

PART OF



REVISIONS

No.	Date	SYM.	Description

PROPOSED SITE PLAN

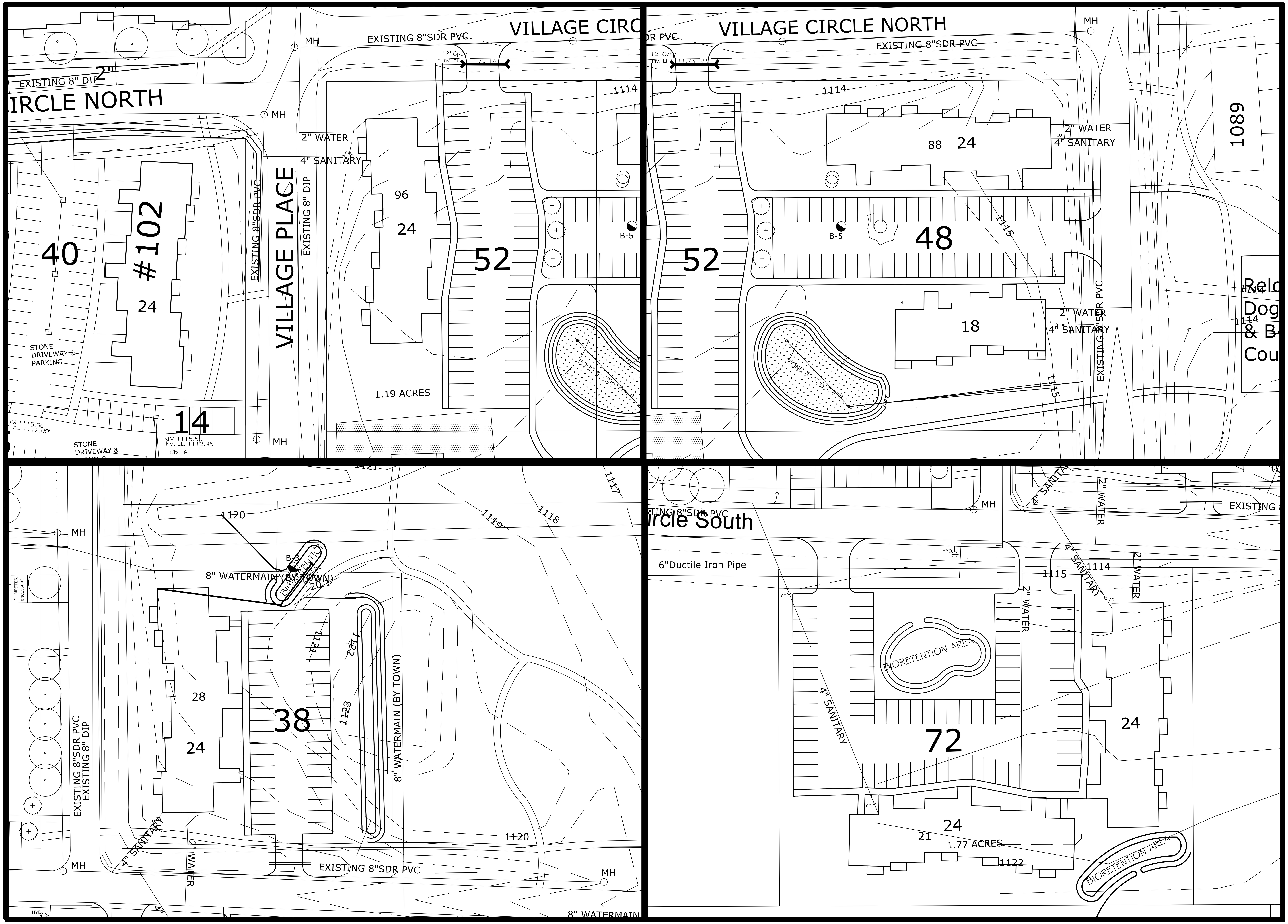
VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

STATE OF NEW YORK — TIMOTHY C. BUHL — LICENSED PROFESSIONAL ENGINEER

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: 1"=60'
DRAWN: SDG
JOB:
SHEET: ST-2



REVISIONS

No.	Date	SYM.	Description

PROPOSED
SITE PLAN - 30 SCALE

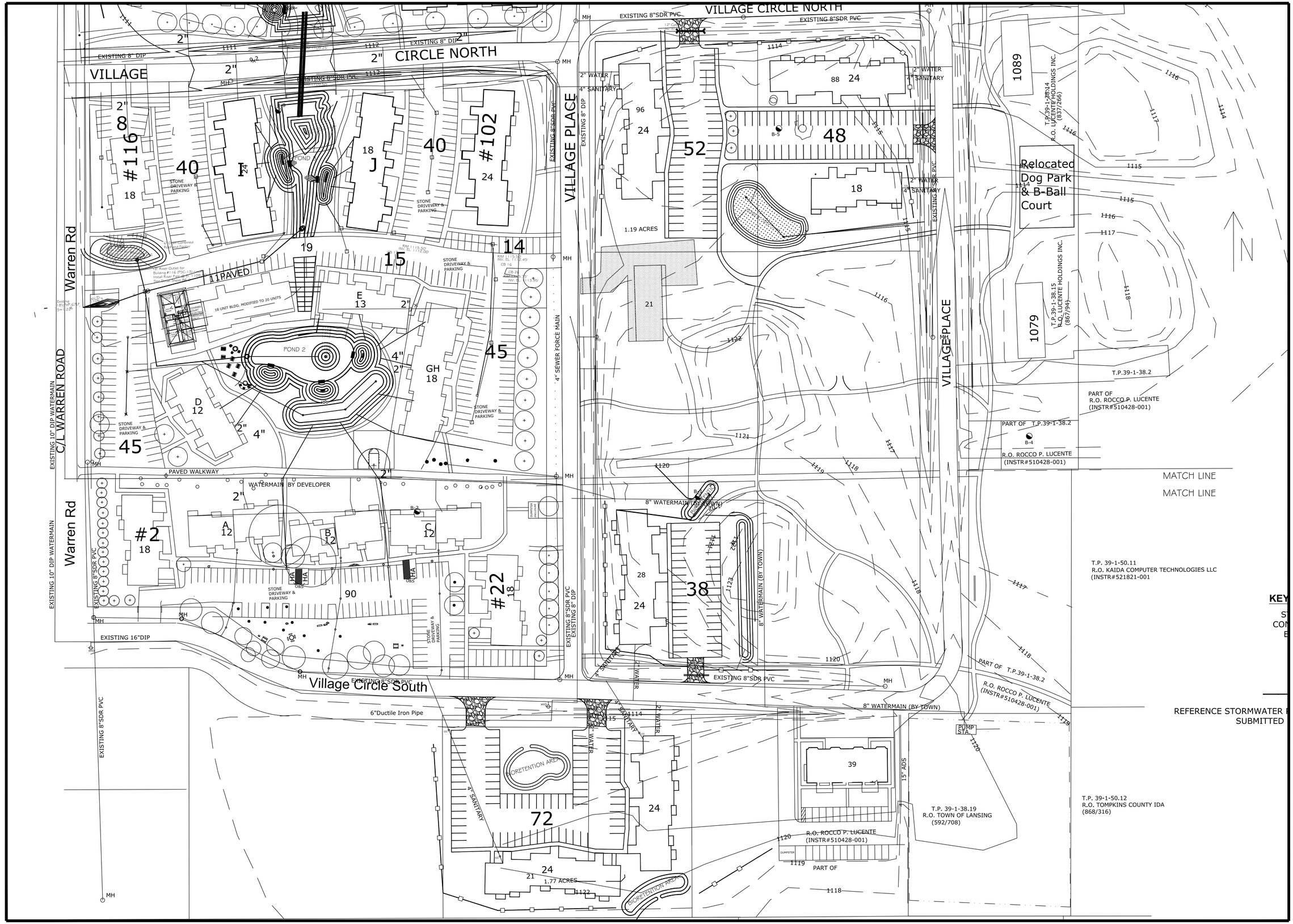
LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER

TIMOTHY C. BUHL, P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: 1"=30'
DRAWN: SDG
JOB:
SHEET: ST-2b



KEY

REFERENCE STORMWATER
SUBMITTED

REVISIONS

No.	Date	SYM.	Description

E&SC PLAN

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPENCER, NY 14883

STATE OF NEW YORK · TIMOTHY C. BUHL · LICENSED PROFESSIONAL ENGINEER

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: 1"=50'
DRAWN: SDG
JOB:
SHEET: ST-3

GENERAL NOTES

NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, NOVEMBER 2016

1. PHYSICALLY MARK LIMITS OF LAND DISTURBANCE ON THE SITE WITH TAPE, SIGNS, OR ORANGE CONSTRUCTION FENCE, SO THAT WORKERS CAN SEE THE AREAS TO BE PROTECTED.

2. DIVERT OFF-SITE RUNOFF FROM HIGHLY ERODIBLE SOILS AND STEEP SLOPES TO STABLE AREAS.

3. CLEAR ONLY WHAT IS REQUIRED FOR IMMEDIATE CONSTRUCTION ACTIVITY. LARGE PROJECTS SHOULD BE CLEARED AND GRADED AS CONSTRUCTION PROGRESSES. AREAS EXCEEDING TWO ACRES IN SIZE SHOULD NOT BE DISTURBED WITHOUT A SEQUENCING PLAN THAT REQUIRES PRACTICES TO BE INSTALLED AND THE SOIL STABILIZED, AS DISTURBANCE BEYOND THE TWO ACRES CONTINUES. MASS CLEARINGS AND GRADING OF ENTIRE SITE SHOULD BE AVOIDED.

4. RESTABILIZE DISTURBED AREAS AS SOON AS POSSIBLE AFTER CONSTRUCTION IS COMPLETED. ON SITES GREATER THAN TWO ACRES IN SIZE, WAITING UNTIL ALL DISTURBED AREAS ARE READY FOR SEEDING IS UNACCEPTABLE. FOURTEEN DAYS SHALL BE THE MAXIMUM EXPOSURE PERIOD. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. EXCEPT AS NOTED BELOW, ALL SITES SHALL BE SEEDED AND STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS STRAW MULCH, JUTE MESH, OR EXCELSIOR, INCLUDING AREAS WHERE CONSTRUCTION HAS BEEN SUSPENDED OR SECTIONS COMPLETED:

A. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WITHIN 50 FT. OF A BUILDING UNDER CONSTRUCTION, A PERIMETER SEDIMENT CONTROL SYSTEM CONSISTING, FOR EXAMPLE, SILT FENCING, SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL. EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDES RAPID OFF-SITE DISCHARGE OF SEDIMENT, SUCH AS A CUT SLOPE AT AN ENTRANCE, SHALL BE COVERED WITH PLASTIC OR, GEOTEXTILE FABRIC TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED. STABILIZED CONSTRUCTION ENTRANCES WILL BE MAINTAINED TO CONTROL VEHICLE TRACKING MATERIAL OFF-SITE.

B. ON THE CUT SIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK RIP-RAP OR OTHER NON-ERODIBLE LINERS (EG. ROLLED EROSION PRODUCTS), OR WHERE APPROPRIATE, VEGETATIVE MEASURES SUCH AS SOD.

C. PERMANENT SEEDING SHOULD OPTIMALLY BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM SEPTEMBER TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICABLE, AN APPROPRIATE TEMPORARY MULCH SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE WATERING. TEMPORARY SEEDING WITH RYE CAN BE UTILIZED THROUGH NOVEMBER.

D. ALL SLOPES STEEPER THAN 3:1 (H:V), OR 33.3%, AS WELL AS PERIMETER DIKES, SEDIMENT BASINS AND TRAPS, AND EMBANKMENTS SHALL, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOD, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES. AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL NOT BE DISTURBED. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

E. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTIRBUTORY DRAINAGE AREAS. SIMILARLY, STABILIZATION SHALL BE ESTABLISHED PRIOR TO CONVERTING SEDIMENT TRAPS/BASINS INTO PERMANENT (POST-CONSTRUCTION) STORMWATER MANAGEMENT PRACTICES.

5. IF TEMPORARY WORK ROADS OR HAUL ROADS CROSS STREAM CHANNELS, ADEQUATE WATERWAY OPENINGS SHALL BE CONSTRUCTED USING SPANS, CULVERTS, WASHED ROCK BACKFILL, OR OTHER ACCEPTABLE, CLEAN METHODS THAT WILL ENSURE THAT ROAD CONSTRUCTION AND THEIR USE DO NOT RESULT IN TURBIDITY AND SEDIMENT DOWNSTREAM. ALL CROSSING ACTIVITIES AND APPURTENANCES ON STREAMS REGULATED BY ARTICLE 15 OF THE ENVIRONMENTAL CONSERVATION LAW SHALL BE IN COMPLIANCE WITH A PERMIT ISSUED PURSUANT TO ARTICLE 15 OF THE ECL.

6. MAKE SURE THAT ALL CONTRACTORS AND SUB-CONTRACTORS UNDERSTAND THE ESC PLAN AND SIGN THE CERTIFICATION STATEMENT REQUIRED BY NYSDEC GP.

7. DESIGNATE RESPONSIBLITY FOR THE ESC PLAN TO ONE INDIVIDUAL. THIS PERSON SHALL BE NAMED IN THE NOTICE OF INTENT.

8. AN ESC PLAN INSPECTION PROGRAM MEETING THE REQUIREMENTS OF THE NYSDEC GP, IS NECESSARY TO DETERMINE WHEN ESC MEASURES NEED MAINTENANCE OR REPAIR. PAY PARTICULAR ATTENTION TO INSPECTIONS REQUIRED AFTER RAINFALL. THE INSPECTION PROGRAM SHALL ALSO STATE THE COMPLETION OF IDENTIFIED REPAIR AND MAINTENANCE ITEMS.

9. IF CONSTRUCTION ACTIVITIES CONTINUE DURING WINTER, ACCESS POINTS SHOULD BE ENLARGED AND STABILIZED TO PROVIDE FOR SNOW STOCKPILING. IN ADDITION SNOW MANAGEMENT PLAN SHOULD BE PREPARED WITH ADEQUATE STORAGE AND CONTROL OF MELTWATER. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED FROM PERIMETER CONTROLS SUCH AS SILT FENCING. KEEP DRAINAGE STRUCTURES OPEN AND FREE OF SNOW AND ICE DAMS. INSPECTION AND MAINTENANCE ARE NECESSARY TO ENSURE THE FUNCTION OF THESE PRACTICES DURING RUNOFF EVENTS.

LAND GRADING SPECIFICATIONS

1. 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.

2. ALL FILL TO BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.

3. 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.

4. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.

5. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

TOP SOILING SPECIFICATIONS

1. PRESERVE EXISTING TOPSOIL IN PLACE WHERE POSSIBLE, THEREBY REDUCING THE NEED FOR ADDED TOPSOIL.

2. AS NEEDED, INSTALL EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, CHANNELS, SEDIMENT TRAPS, AND STABILIZING MEASURES, OR MAINTAIN IF ALREADY INSTALLED.

3. COMPLETE ROUGH GRADING AND FINAL GRADE, ALLOWING FOR DEPTH OF TOPSOIL TO BE ADDED.

4. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE TEXTURED SUBSOIL AREAS. SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%. AREAS THAT HAVE BEEN OVERLY COMPACTED SHALL BE DECOMPACTED TO A MINIMUM DEPTH OF 12-INCHES WITH A DEEP RIPPER OR CHISEL PLOW PRIOR TO TOPSOILING.

5. REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3-INCHES IN DIAMETER, AND OTHER LITTER.

6. TOPSOIL SHALL HAVE AT LEAST 6% BY WEIGHT OF FINE TEXTURED STABLE ORGANIC MATERIAL, AND NO GREATER THAN 20%. MUCK SOIL SHALL NOT BE CONSIDERED TOPSOIL.

7. TOPSOIL SHALL HAVE NOT LESS THAN 20% FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15% CLAY.

8. TOPSOIL TREATED WITH SOIL STERILANTS OR HERBICIDES SHALL BE SO IDENTIFIED TO THE PURCHASER.

9. TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 1/2-INCHES IN DIAMETER, TRASH, NOXIOUS WEEDS SUCH AS NUT SEDGE AND QUACKGRASS, AND WILL HAVE LESS THAN 10% GRAVEL.

10. TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PARTS PER MILLION SHALL NOT BE USED.

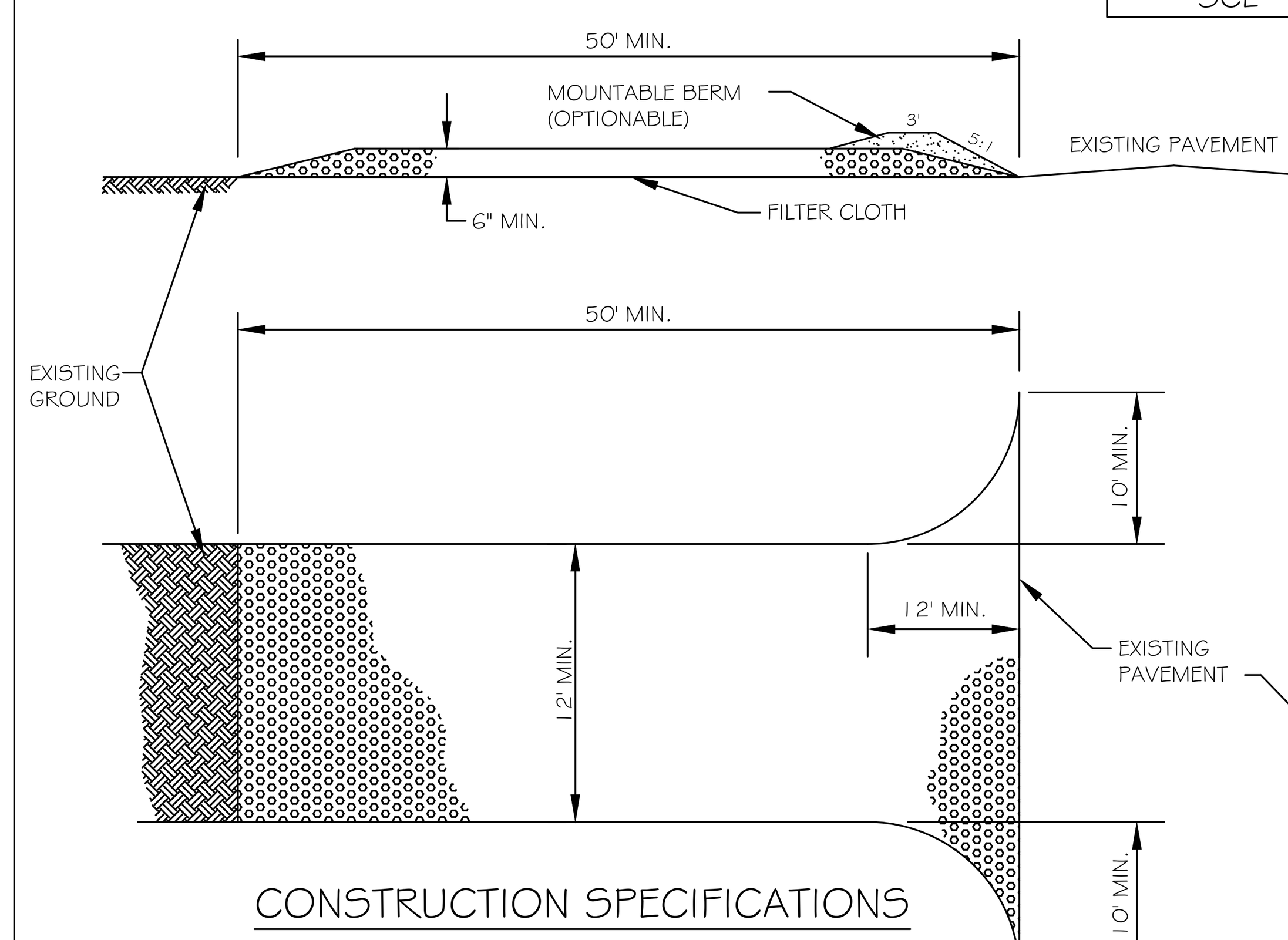
11. TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTIALLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.

12. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED, AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.

STABILIZED CONSTRUCTION ENTRANCE

SYMBOL

SCE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.

2. LENGTH - NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MIN. LENGTH WOULD APPLY).

3. THICKNESS - NOT LESS THAN SIX (6) INCHES.

4. WIDTH - TWELVE (12) FOOT MIN. BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.

5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS 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 TRACTED 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 TRAPPINGS DEVICE.

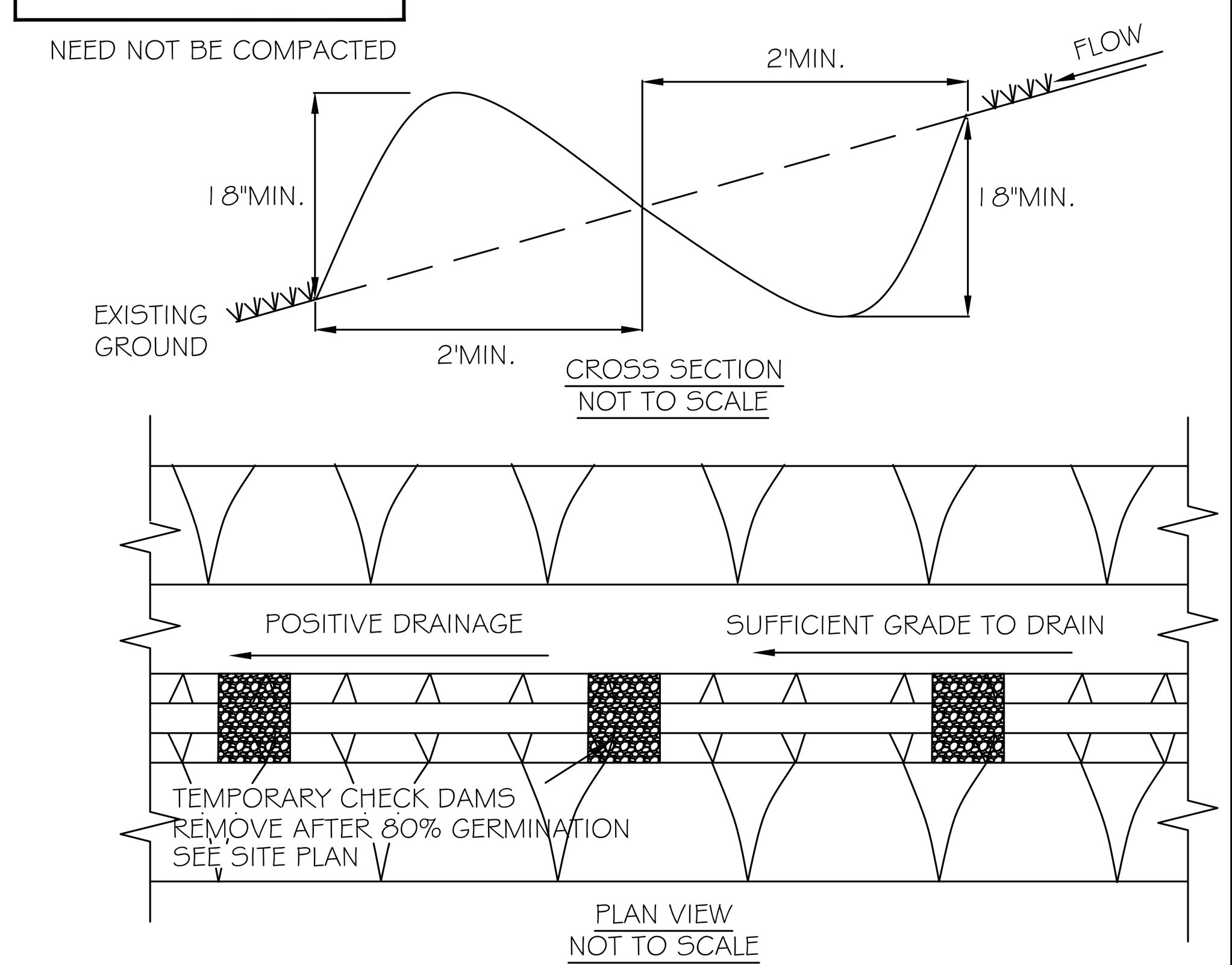
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

10. TEMPORARY CONSTRUCTION ENTRANCES, EXITS AND TEMPORARY ACCESS SHALL BE SUBJECT TO THE APPROVAL OF THE APPROPRIATE AUTHORITIES.

GRASSED/VEGETATED SWALE

SYMBOL

G



CONSTRUCTION SPECIFICATIONS

GRASSED/VEGETATED SWALE

1. DRAINAGE AREA SHALL BE LESS THAN 5 ACRES.

2. HEIGHT SHALL BE NO LESS THAN 18-INCHES FROM BOTTOM OF SWALE TO TOP OF DIKE EVENLY DIVIDED BETWEEN DIKE HEIGHT AND SWALE DEPTH.

3. BOTTOM WIDTH OF DIKE SHALL BE NO LESS THAN 2-FEET.

4. WIDTH OF SWALE SHALL BE NO LESS THAN 2-FEET.

5. SWALE SHALL HAVE POSITIVE DRAINAGE TO AN ADEQUATELY STABILIZED OUTLET TO AN UNDISTURBED AREA. MAXIMUM ALLOWABLE GRADE NOT TO EXCEED 8%.

6. THE DISTURBED AREA OF THE DIKE AND SWALE SHALL BE STABILIZED WITHIN 7 DAYS OF INSTALLATION, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR TEMPORARY SWALES.

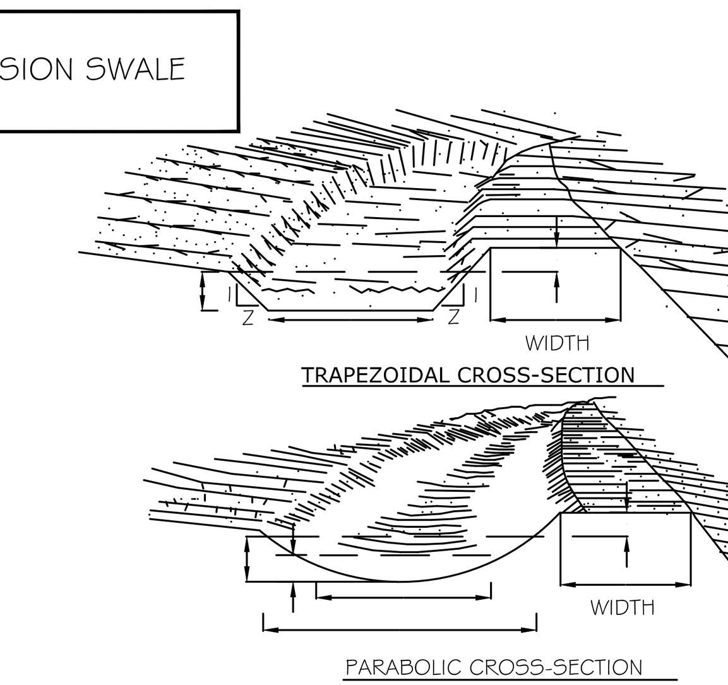
7. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE SUCH AS A TRAP, BASIN, OR TO AN AREA PROTECTED BY ANY OF THESE PRACTICES.

8. PERIODIC INSPECTION AND REQUIRED MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.

DIVERSION SWALE

SYMBOL

D



CONSTRUCTION SPECIFICATIONS

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, 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.

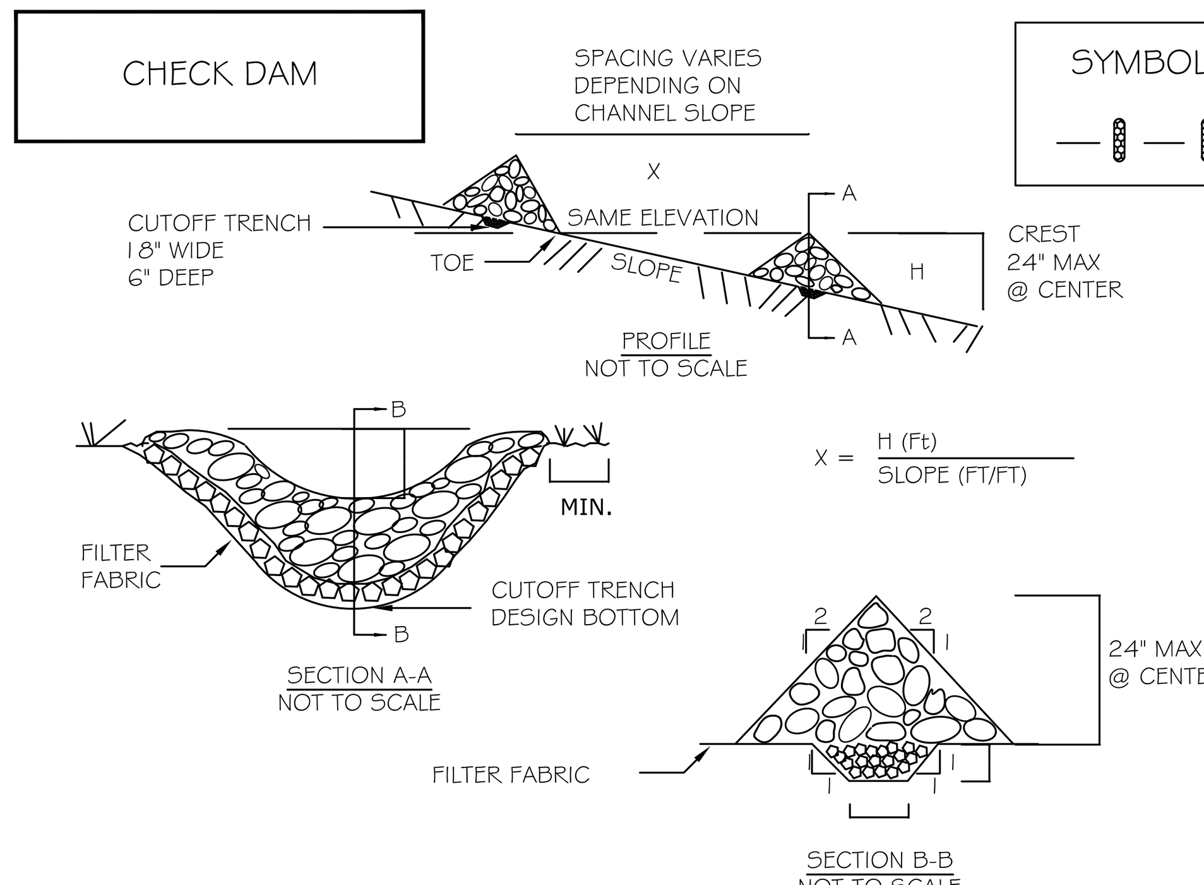
3. FILLS SHALL BE COMPACTED AS NEEDED TO PREVENT UNEQUAL SETTLEMENT THAT WOULD CAUSE DAMAGE IN THE COMPLETE DIVERSION.

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.

CHECK DAM

SYMBOL



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 ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.

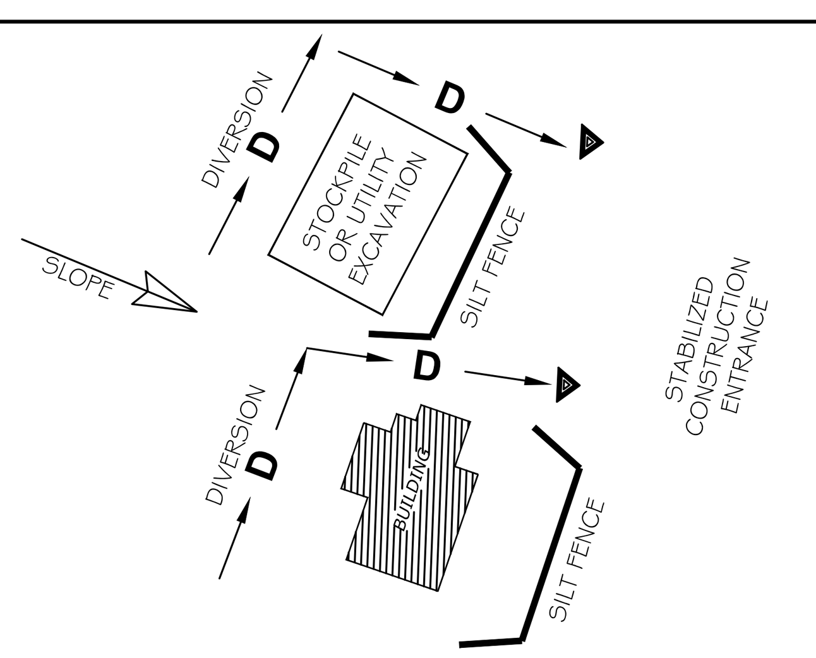
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.

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.

SEDIMENT & EROSION CONTROL MEASURES TYPICAL



SEDIMENT & EROSION CONTROL MEASURES TYPICAL
N.T.S.

MATERIAL STOCKPILING

1. FOR RESIDENTIAL CONSTRUCTION, ONE SPECIFIC AREA ON EACH LOT SHALL BE DESIGNATED FOR TEMPORARY STOCKPILING OF TOPSOIL AND ALL OTHER CONSTRUCTION MATERIALS CONTAINING FINES THAT CAN BE MOVED BY RUNOFF. THIS AREA SHALL BE AS SMALL AS PRACTICABLE.

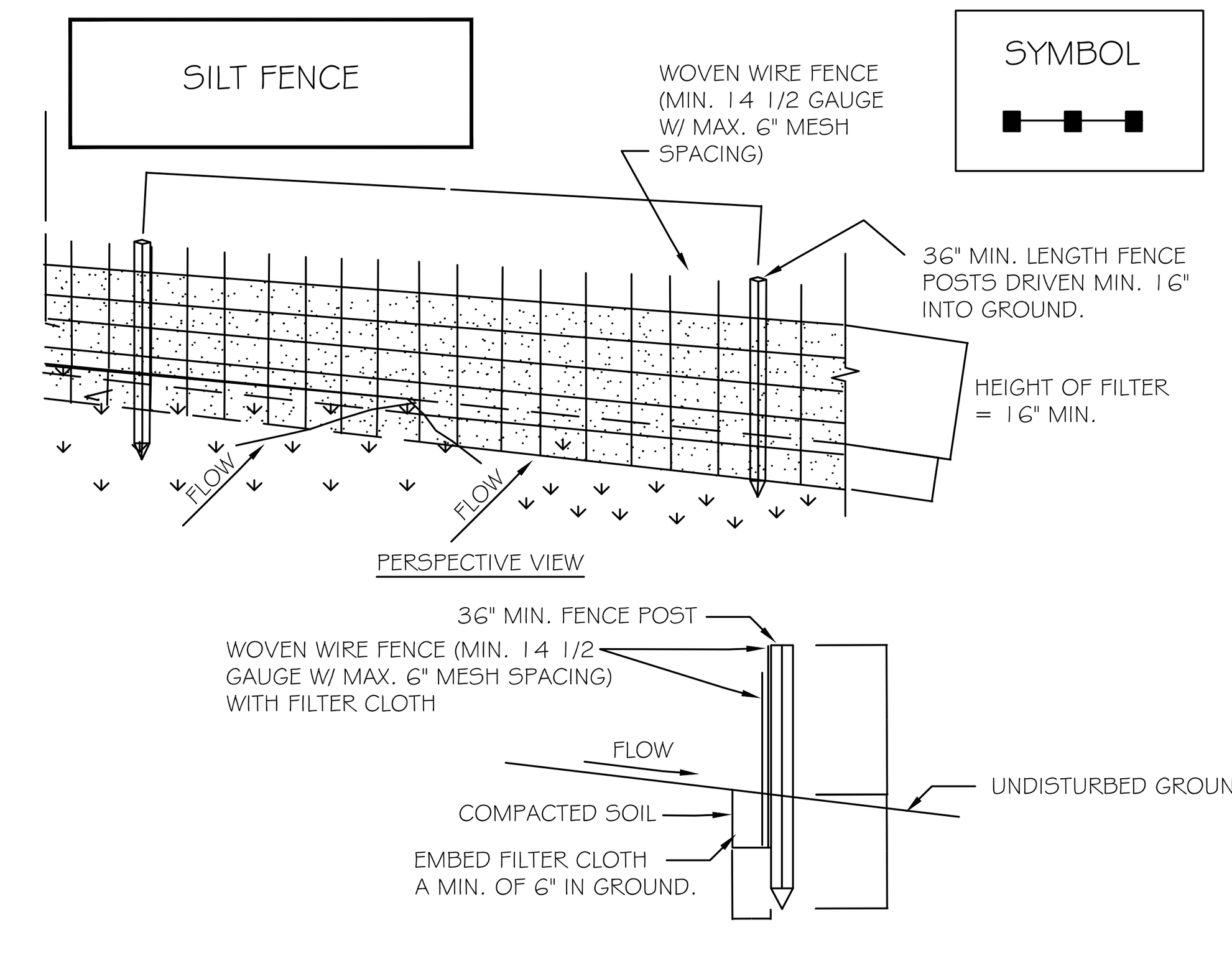
2. STOCK PILES WILL HAVE DOWN HILL SIDE PERIMETER SILT FENCING PROTECTION. REFERENCE SILT FENCE DETAILS THESE PLANS.

3. STOCK PILES WILL BE SEEDED AND MULCHED IF ANTICPATED TO BE LEFT IN PLACE 14-DAYS OR MORE. REFERENCE DETAIL SHEET NOTES AND SPECIFICATIONS THIS PLANT SET AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) ACCOMPANYING THIS PLAN SET.

4. SILT FENCE AND OTHER TEMPORARY CONTROL MEASURES SHALL BE IN PLACE BEFORE STOCKPILING OF MATERIALS.

SILT FENCE

SYMBOL



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 TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.

3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.

4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.

5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

CONCRETE WASHOUT

CONSTRUCTION SPECIFICATIONS

DESIGN CRITERIA

1. THE WASHOUT FACILITY SHOULD BE SIZED TO CONTAIN SOLIDS, WASHWATER AND RAINFALL AND SIZED TO ALLOW FOR THE EVAPORATION OF THE WASHWATER AND RAINFALL.

2. WASHWATER SHALL BE ESTIMATED AT 7 GALLONS PER CHUTE AND 50 GALLONS PER HOPPER OF CONCRETE PUMP TRUCK AND/OR DISCHARGING DRUM.

3. THE MINIMUM SIZE SHALL BE 8' X 8' AT THE BOTTOM AND 2' DEEP. IF EXCAVATED, THE SIDE SLOPES SHALL BNE 2 HORIZONTAL : 1 VERTICAL.

4. LOCATE THE FACILITY A MINIMUM OF 100' FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETALANDS, STREAMS AND OTHER SURFACE WATERS. PREVENT SURFACE WATER FROM ENTERING THE STRUCTURE EXCEPT FOR THE ACCESS ROAD.

5. PROVIDE APPROPRIATE ACCESS WITH A GRAVEL ACCESS ROAD SLOPED DOWN TO STRUCTURE.

6. SIGNS SHALL BE PLACED TO DIRECT DRIVERS TO THE FACILITY AFTER THEIR LOAD IS DISCHARGED.

THE LINER SHALL BE PLASTIC SHEETING WITH A MIN. THICKNESS OF 10 MILS WITH NO HOLES OR TEARS. ANCHOR THE LINER TO THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, ETC.

MAINTENANCE

1. INSPECT ALL FACILITIES DAILY. REPAIR ALL DAMAGED OR LEAKING WASHOUT STATIONS IMMEDIATELY.
2. PUMP OUT ANY ACCUMULATED RAINWATER OVER HARDENED CONCRETE.
3. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED.
4. DISPOSE OF HARDENED MATERIAL OFF-SITE IN A C/D LANDFILL. ON-SITE DISPOSAL IS ACCEPTABLE IF IT HAS BEEN APPORVED AND ACCEPTED AS PART OF THE SWPPP.
5. REPLACE THE PLASTIC LINER WITH EACH CLEANING OF WASHOUT FACILITY.
6. INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

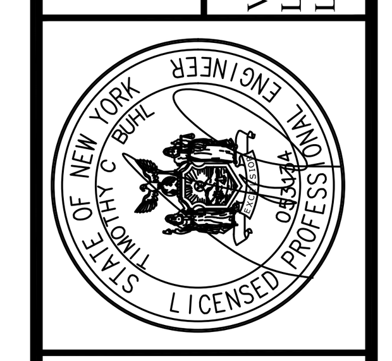
EXCERPTS FROM NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL
NOVEMBER 2016

No.	Date	SYM.	REVISIONS Description

E&SC DETAILS

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.



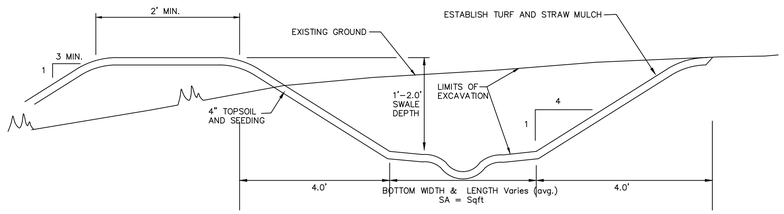
TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: N.T.S.
DRAWN: SDG
JOB:
SHEET: ST-4

Bioretention Suggested Plantings - USDA Zone 5A	
SHRUBS	HERBACEOUS PLANTS
Witch Hazel Hamemelis viginiana	Cinnamon Fern Osmunda cinnamomea
Winterberry Ilex verticillata	Cutleaf Coneflower Rudbeckia laciniata
Arrowwood Viburnum dentatum	Woolgrass Scirpus cyperinus
Brook-side Alder Alnus serrulata	New England Aster Aster novae-angliae
Red-Osier Dogwood Cornus stolonifera	Fox Sedge Carex vulpinoidea
Sweet Pepperbush Clethra alnifolia	Spotted Joe-Pye Weed Eupatorium maculatum
	Switch Grass Panicum virgatum
	Great Blue Lobelia Lobelia siphatica
	Wild Bergamot Mondarda fistulosa
	Red Milkweed Ascelpias incarnata

NOTE; ALL LANDSCAPING AND PLANTINGS AROUND PHASE 7 BUILDINGS AND PARKING AREAS SHALL BE THE SAME AS IN PREVIOUS PHASES, WITH THE FOLLOWING GENERAL MIXTURE:

Weeping cherry trees (30%)
Regular cherry trees (70%)
Forsythia Bushes (33%)
Juniper Bushes (33%)
Rosa Sharon Bushes (33%)



Cross-Section Bioretention Area

DIMENSIONS VARY AS PER PLAN

STONE LINING FOR STORMWATER CONVEYANCE SECTIONS						
MIN THICKNESS (THK)	STONE FILLING ITEM	V MAX*2 2' DEPTH	SEE NOTES	STONE SIZE[1]	PERCENT OF TOTAL BY WEIGHT	MANNING'S ROUGHNESS COEFF "N"
9"	FINE	11.0 FPS	2,3,4	SMALLER THAN 8" LARGER THAN 3" SMALLER THAN NO. 10 SIEVE	90-100 50-100 0-10	0.0314
15"	LIGHT	13.0 FPS	2,3,4	LIGHTER THAN 100 LBS LARGER THAN 6" SMALLER THAN 1/2"	90-100 50-100 0-10	0.0352
18"	MEDIUM	15.5 FPS	2,3,4	HEAVIER THAN 100 LBS SMALLER THAN 4"	50-100 0-10	0.0395
30"	HEAVY	17.0 FPS	2,3,4	HEAVIER THAN 100 LBS SMALLER THAN 6"	50-100 0-10	0.0423

*1 SOURCE: HYDRAULIC ENGINEERING CIRCULAR NO. 15 DESIGN OF STABLE CHANNELS WITH FLEXIBLE LININGS

*2 SOURCE: SOILS DESIGN PROCEDURE SDP2, BANK AND CHANNEL PROTECTIVE LINING DESIGN PROCEDURES

NOTES:

1. STONE SIZES, OTHER THAN WEIGHTS, REFER TO THE AVERAGE OF THE MAXIMUM AND MINIMUM DIMENSIONS OF A STONE PARTICLE AS ESTIMATED BY THE ENGINEER.

2. MATERIALS SHALL CONTAIN LESS THAN 20 PERCENT OF STONES WITH A RATIO OF MAXIMUM TO MINIMUM DIMENSIONS GREATER THAN THREE.

3. AIR-COOLED BLAST FURNACE SLAG, COBBLES OR GRAVEL HAVING AT LEAST ONE FRACTURED FACE PER ACCEPTABLE SUBSTITUTES FOR STONE UNDER THESE ITEMS, PROVIDED THAT SOUNDNESS AND GRADATION REQUIREMENTS ARE MET.

4. MATERIALS SHALL CONTAIN A SUFFICIENT AMOUNT OF STONES SMALLER THAN THE AVERAGE STONE SIZE TO FILL THE SPACES BETWEEN THE STONES.

SPECIFICATIONS FOR BIORETENTION SYSTEMS

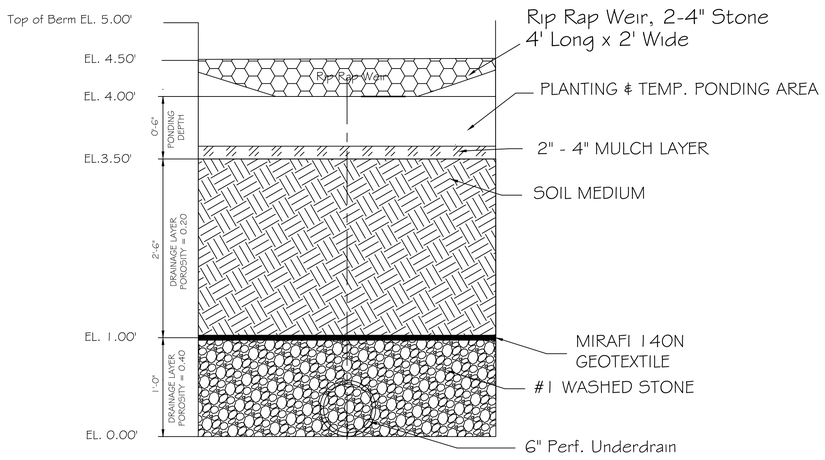
Planting Soil
The soil shall be a uniform mix, free of stones, stumps, roots or other similar objects larger than two inches. No other materials or substances shall be mixed or dumped within the bioretention area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The planting soil shall be free of noxious weeds.

Planting soil shall be of a sandy loam consistency containing approximately 75% concrete sand, 25% top soil and organics.

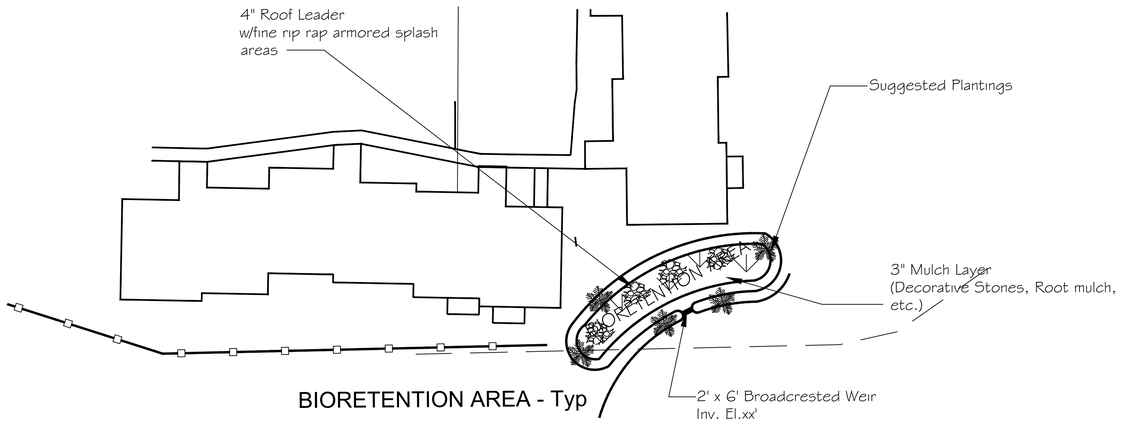
Compaction
Minimize compaction of both the base of the bioretention area and the required backfill. Place soil in lifts 12" or great. Do not use heavy equipment within the bioretention area basin.

TYPICAL OUTLET, OVERFLOW, AND CHANNEL DETAILS

REFERENCE THE BASIN PLAN & SECTION SHEETS FOR ELEVATIONS, DIMENSIONS, LINES & GRADES



Bioretention Underdrain Layers



BIORETENTION AREA - Typ

NOTES:
BASIN EMBANKMENT CONSTRUCTION:

1: EMBANKMENT MATERIAL SPECIFICATIONS: EMBANKMENT CORE AND CUT OFF TRENCH MATERIAL SHALL BE MATERIAL CONFORMING TO UNIFIED SOIL CLASSIFICATION GC, SC, CH, OR CL WITH AT LEAST 30% PASSING #200 SIEVE. CORE AND CUT OFF TRENCH MATERIAL SHALL BE STOCKPILED SEPARATELY FROM OUTER SHELL MATERIAL. MATERIAL SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6-INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. STOCKPILED MATERIAL SHALL BE COVERED AND PROTECTED FROM WATER, TRAFFIC AND OTHER DELETERIOUS SUBSTANCES OR PROCESSES.

2: EMBANKMENT COMPACTION: EMBANKMENT FILL SHALL BE PLACED IN 12-INCH LIFTS MAXIMUM AND COMPACTED. THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF OPTIMUM. ALL COMPACTION TO BE DETERMINED BY AASHTO METHOD 99 STANDARD PROCTOR.

3: EMBANKMENT CORE DIMENSIONS: THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT AS SHOWN ON THE PLANS. THE TOP WIDTH OF THE CORE SHALL BE A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION OR AS SHOWN ON THE PLANS. THE SIDE SLOPES SHALL BE 1 TO 1 OR FLATTER. THE CORE SHALL BE COMPACTED WITH CONSTRUCTION COMPACTION EQUIPMENT, ROLLERS, OR TAMPS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. THE CORE SHALL BE CONSTRUCTED/PLACED CONCURRENTLY WITH THE OUTER SHELL OF THE EMBANKMENT.

4: EMBANKMENT SURFACE: A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON ENTIRE SURFACE AREA OF THE EMBANKMENT. GOOD GRASSED COVER SHALL BE ESTABLISHED BY SEEDING, LIMING, FERTILIZING, MULCHING, ETC. IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. EMBANKMENT SHALL BE KEPT FREE OF WOODY PLANT GROWTH AND TREES.

REVISIONS

No.	Date	SYM.	Description

BIORETENTION AREA DETAILS

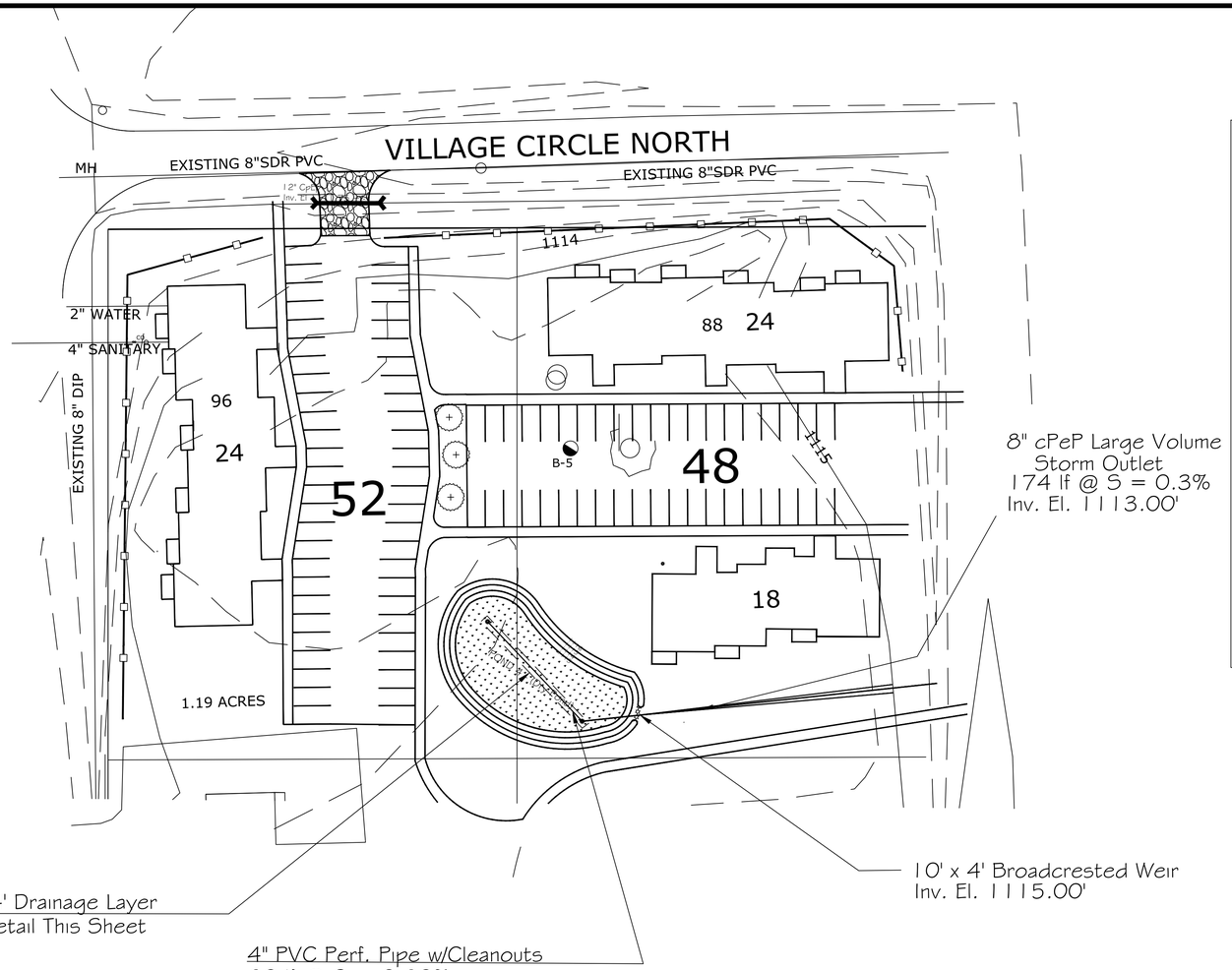
VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES - VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

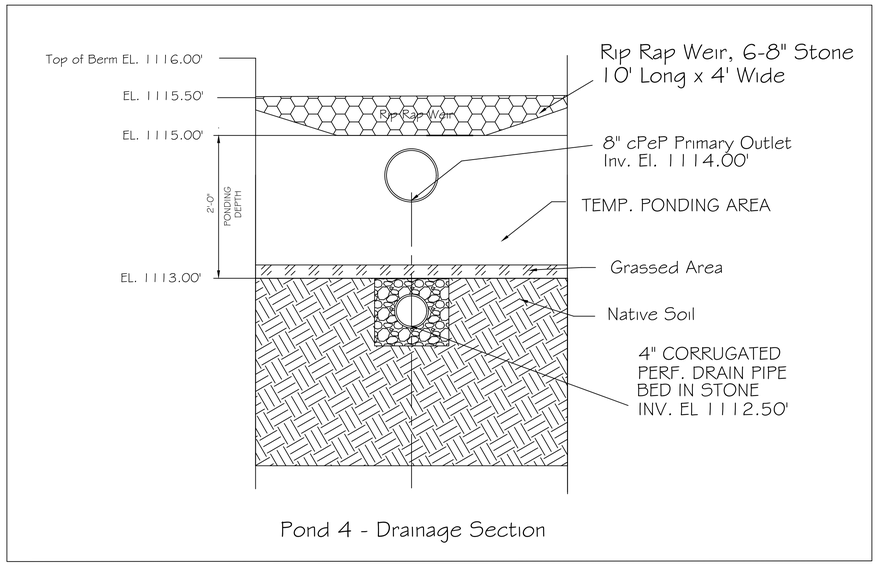
LUCENTE HOLDINGS, INC
301 MAGAZINE HILL RD.
SPENCER, NY 14883

STATE OF NEW YORK TIMOTHY C. BUHL LICENSED PROFESSIONAL ENGINEER

TIMOTHY C. BUHL, P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: MAY 20, 2022
SCALE: 1"=50'
DRAWN: SDG
JOB:
SHEET: ST-5





Pond 4 - Drainage Section

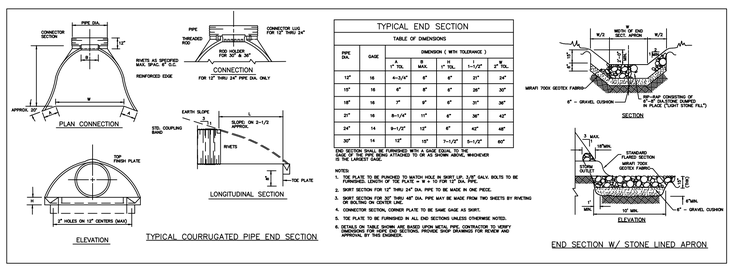
Q_f : 100-YR (") EVENT
BASIN PEAK VOL. =16,112-CF, PEAK DEPTH =2.02', EL. = 1115.02'

Q_p : 10-YR (") EVENT
BASIN PEAK VOL.= 10,254-CF, PEAK DEPTH = 1.36', EL. = 1114.36'

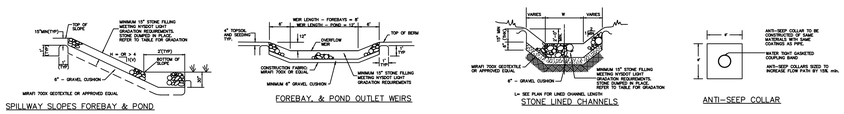
C_{pv} : 1-YR (") EVENT
BASIN PEAK VOL.* = 5,683-CF, PEAK DEPTH = 0.80', EL.= 1113.80'

WQ_v : WATER QUALITY VOLUME* = 3,649-CF, DEPTH = 0.52 , EL.= 1113.52'
* - 50% calculated using zero exfiltration, saturated or frozen soil conditions.

POND OUTLET STRUCTURES & EMBANKMENT DETAILS



PIPE DIA.	GAGE	DIMENSION (WITH TOLERANCE) A 1" TOL.	B MAX.	C 1" TOL.	D 1-1/2" TOL.	E 2" TOL.
12"	16	4-3/4"	6"	6"	21"	24"
15"	16	6"	8"	6"	26"	30"
18"	16	7"	9"	6"	31"	36"
21"	16	8-1/4"	11"	6"	36"	42"
24"	14	9-1/2"	12"	6"	42"	48"
30"	14	12"	15"	7-1/2"	9-1/2"	60"



NOTES:
POND EMBANKMENT CONSTRUCTION:

1. EMBANKMENT MATERIAL SPECIFICATIONS: EMBANKMENT CORE AND CUT OFF TRENCH MATERIAL SHALL BE MATERIAL CONFORMING TO UNIFIED SOIL CLASSIFICATION GP, SC, CH, OR CL WITH AT LEAST 30% PASSING #200 SIEVE. CORE AND CUT OFF TRENCH MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, TRASH, ROCKS OVER 6-INCHES, SHALL BE FREE OF ROOTS, STUMPS, WOOD, RUBBISH, STONES GREATER THAN 6-INCHES, FROZEN OR OTHER OBJECTIONABLE MATERIALS. STOCKPILED MATERIAL SHALL BE COVERED AND PROTECTED FROM WATER, TRAFFIC AND OTHER DELETERIOUS SUBSTANCES OR PROCESSES.

2. EMBANKMENT COMPACTION: EMBANKMENT FILL SHALL BE PLACED IN 12-INCH LIFTS MAXIMUM AND COMPACTED. THE MINIMUM REQUIRED DENSITY SHALL NOT BE LESS THAN 95% OF MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF OPTIMUM. ALL COMPACTION TO BE DETERMINED BY AASHTO METHOD T99 STANDARD PROCTOR.

3. EMBANKMENT CORE DIMENSIONS: THE CORE SHALL BE PARALLEL TO THE CENTERLINE OF THE EMBANKMENT WITH A MINIMUM BOTTOM WIDTH OF 8 FEET AND A CENTERLINE TOP OF A MINIMUM OF FOUR FEET. THE HEIGHT SHALL EXTEND UP TO AT LEAST THE 10 YEAR WATER ELEVATION OR AS SHOWN ON THE PLANS. THE SIDE SLOPES SHALL BE NO FLATTER THAN ONE HORIZONTAL TO ONE VERTICAL. THE CORE SHALL BE COMPACTED BY EQUIPMENT ROLLERS, OR TAMPS TO ASSURE MAXIMUM DENSITY AND MINIMUM PERMEABILITY. THE CORE SHALL BE CONSTRUCTED/PLACED CONCURRENTLY WITH THE OUTER SHELL OF THE EMBANKMENT.

4. EMBANKMENT SURFACE: A 4-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE OUTER SURFACE AREA OF THE EMBANKMENT. SEED AND MULCH ALL EXPOSED OR DISTURBED SOIL AREAS IMMEDIATELY FOLLOWING SEEDING, ETC IN ACCORDANCE WITH NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. EMBANKMENT SHALL BE KEPT FREE OF WOODY PLANT GROWTH AND TREES.

STONE LINING FOR STORMWATER CONVEYANCE SECTIONS

MIN. THICKNESS (TMIN)	STONE FILLING TYPE	V_f MAX.[4] FT. / SEC.	SEE NOTES	STONE SIZE[5]	PERCENT OF TOTAL BY WEIGHT	MANNING'S ROUGHNESS "COEF. n"
6"	FINE	11.0 FPS	2,3,4	SMALLER THAN 6" LARGER THAN 3" SMALLER THAN NO. 10 SIEVE	50-100 0-50 0-10	0.0354
15"	LIGHT	13.0 FPS	2,3,4	LIGHTER THAN 100 LBS LARGER THAN 3" SMALLER THAN 1/2"	50-100 0-50 0-10	0.0352
18"	MEDIUM	15.5 FPS	2,3,4	HEAVIER THAN 100 LBS SMALLER THAN 6"	50-100 0-10	0.0395
30"	HEAVY	17.0 FPS	2,3,4	HEAVIER THAN 100 LBS SMALLER THAN 6"	50-100 0-10	0.0423

[4] SOURCE: HYDRAULIC ENGINEERING CIRCULAR NO. 15 DESIGN OF STABLE CHANNELS WITH FLEXIBLE LININGS
[5] SOURCE: SOILS DESIGN PROCEDURE SDP3, BANK AND CHANNEL PROTECTIVE LINING DESIGN PROCEDURES

NOTES:
1. STONE SIZES, OTHER THAN WEIGHTS, REFER TO THE AVERAGE OF THE MAXIMUM AND MINIMUM DIMENSIONS OF A STONE PARTICLE AS OBTAINED BY THE SQUARE.
2. MATERIALS SHALL CONTAIN LESS THAN 20 PERCENT OF STONES WITH A RATIO OF MAXIMUM TO MINIMUM DIMENSIONS GREATER THAN THREE.
3. AIR-COOLED BLAST FURNACE SLAG, COBBLES OR GRAVEL HAVING AT LEAST ONE FRACTURED FACE PER ACCEPTABLE SUBSTITUTES FOR STONE UNDER THESE ITEMS, PROVIDED THAT SOUNDNESS AND GRADATION REQUIREMENTS ARE MET.
4. MATERIALS SHALL CONTAIN A SUFFICIENT AMOUNT OF STONES SMALLER THAN THE AVERAGE STONE SIZE TO FILL THE SPACES BETWEEN THE STONES.

REVISIONS

No.	Date	SYM.	Description

POND 4 DETAILS

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPENCER, NY 14883

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: N.T.S.
DRAWN: SDG
JOB:
SHEET: ST-6

EXISTING FLOW CONDITIONS
AT DESIGN POINT - 1 (REACH DP-1 IN MODEL)

STORM EVENT	PEAK FLOW (CFS)	TOTAL VOLUME (CF)
1 YR, (2.3")	4.80	30,187
10 YR, (3.9")	20.87	103,368
100 YR, (5.5")	41.39	196,673

PROPOSED FLOW CONDITIONS
AT DESIGN POINT - 1 (REACH DP-1 IN MODEL)

STORM EVENT	PEAK FLOW (CFS)	TOTAL VOLUME (CF)
1 YR, (2.3")	3.02	18,121
10 YR, (3.9")	12.93	83,156
100 YR, (5.5")	36.20	176,940

EXISTING FLOW CONDITIONS
AT DESIGN POINT - 2 (REACH DP-2 IN MODEL)

STORM EVENT	PEAK FLOW (CFS)	TOTAL VOLUME (CF)
1 YR, (2.3")	3.49	17,380
10 YR, (3.9")	18.69	67,431
100 YR, (5.5")	39.35	134,470

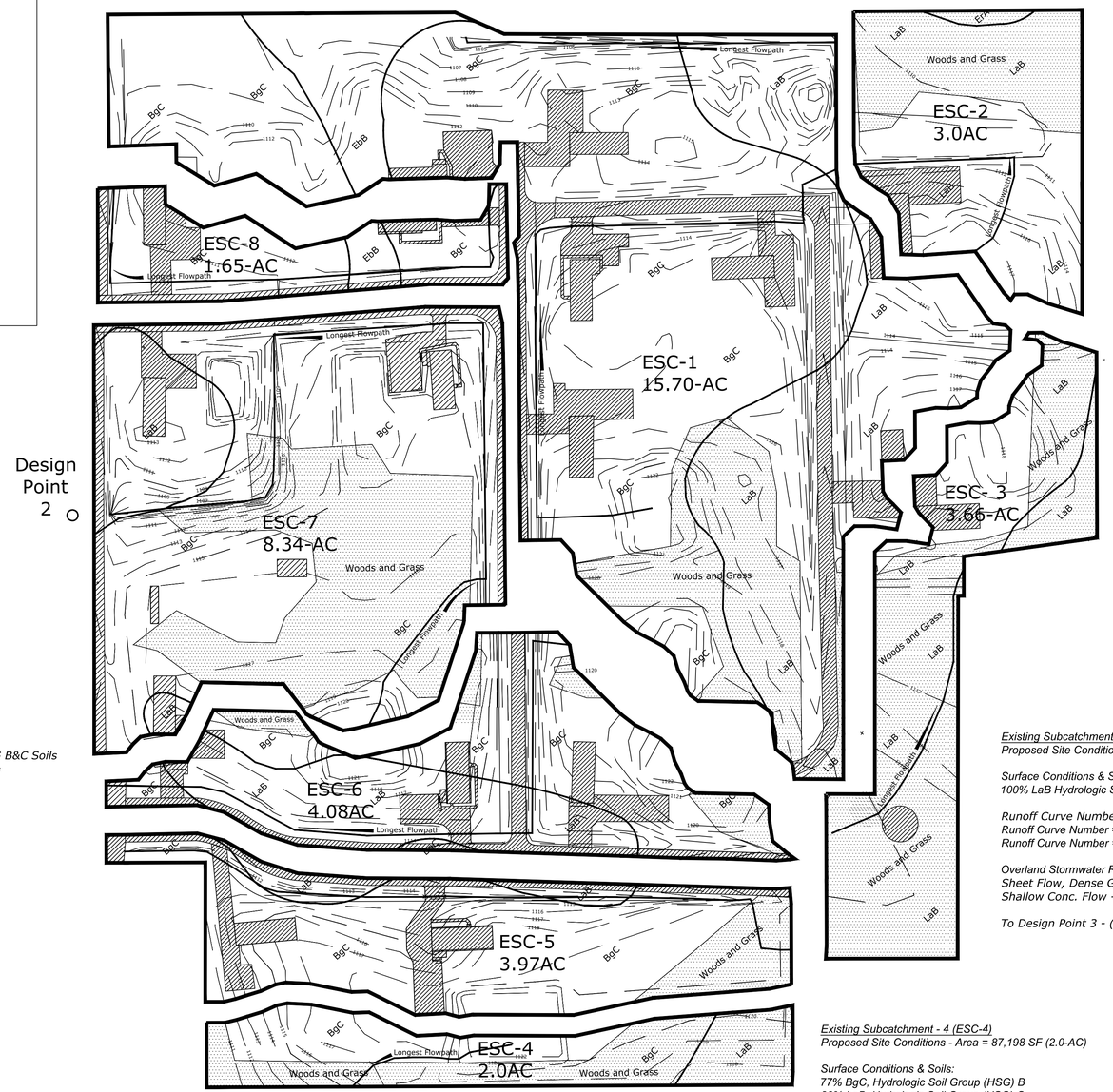
PROPOSED FLOW CONDITIONS
AT DESIGN POINT - 2 (REACH DP-2 IN MODEL)

STORM EVENT	PEAK FLOW (CFS)	TOTAL VOLUME (CF)
1 YR, (2.3")	4.76	20,604
10 YR, (3.9")	18.09	73,573
100 YR, (5.5")	38.69	158,428

Design Point 1

Design Point 2

Meets With Design Point 1



Existing Subcatchments

Existing Subcatchment - 1 (ESC-1)
Proposed Site Conditions - Area = 683,765 SF (15.70-AC)

Surface Conditions & Soils:
54% BgC Hydrologic Soil Group (HSG) B
46% LaB, EbB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 1,893 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 3.5% avg.
Sheet Flow, Dense Grass - 70 lf @ S = 7.8% avg.
Trap/Vee Channel Flow - 488 lf @ S = 0.5% avg.
Circular 8" Pipe - 31 lf @ S = 0.25% avg.
Trap/Vee Channel Flow - 355 lf @ S = 0.80% avg.
Circular 8" Pipe - 31 lf @ @ = 0.25% avg.
Sheet Flow, Grassed Channel - 818 lf @ S = 0.9% avg.

To Design Point 1 - (DP 1)

Existing Subcatchment - 2 (ESC-2)
Proposed Site Conditions - Area = 130,953 SF (3.0-AC)

Surface Conditions & Soils:
100% LaB, ErA, Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 404 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 5.0% avg.
Shallow Conc. Flow - Grass - 62 lf @ S = 4.1% avg.
Trap Vee Channel Flow - 242 lf @ S = 0.5% avg.

To Design Point 1 - (DP 1)

Existing Subcatchment - 3 (ESC-3)
Proposed Site Conditions - Area = 159,455 SF (3.66-AC)

Surface Conditions & Soils:
100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 482 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 1.0% avg.
Shallow Conc. Flow - Woodland - 382 lf @ S = 1.0% avg.

To Design Point 3 - (DP 3)

Existing Subcatchment - 4 (ESC-4)
Proposed Site Conditions - Area = 87,198 SF (2.0-AC)

Surface Conditions & Soils:
77% BgC, Hydrologic Soil Group (HSG) B
23% LaB, Hydrologic Soil Group (HSG) C

Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 265 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 3.5% avg.
Shallow Conc. Flow - Grassed Waterway - 100 lf @ S = 2.0% avg.
Shallow Conc. Flow - Woodland - 62 lf @ S = 4.0% avg.

To Design Point 2 - (DP 2)

Existing Subcatchment - 5 (ESC-5)
Proposed Site Conditions - Area = 172,841 SF (3.97-AC)

Surface Conditions & Soils:
92.1% BgC, Hydrologic Soil Group (HSG) B
7.9% LaB, Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 1,089 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 1.4% avg.
Shallow Conc. Flow - Woodland - 22 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 464 lf @ S = 1.25% avg.
Circular 8" Pipe - 30 lf @ S = 0.35% avg.
Trap/Vee Channel Flow - 473 lf @ S = 1.05% avg.

To Design Point 2 - (DP 2)

Existing Subcatchment - 6 (ESC-6)
Proposed Site Conditions - Area = 177,738 SF (4.08-AC)

Surface Conditions & Soils:
42% BgC Hydrologic Soil Group (HSG) B
58% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 1010 lf +/-
Sheet Flow, Dense Grass - 56 lf @ S = 3.0% avg.
Trap/Vee Channel Flow - 292 lf @ S = 0.5% avg.
Circular 8" Pipe - 31 lf @ S = 0.25% avg.
Trap/Vee Channel Flow - 631 lf @ S = 0.5% avg.

To Design Point 2 - (DP 2)

Existing Subcatchment - 7 (ESC-7)
Proposed Site Conditions - Area = 363,256 SF (8.34-AC)

Surface Conditions & Soils:
86.2% BgC Hydrologic Soil Group (HSG) B
13.8% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 58, Woods and Grass Combination, Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 1,494 lf +/-
Sheet Flow, Dense Grass - 88 lf @ S = 6.0% avg.
Sheet Flow, Woods - 12 lf @ S = 5.5% avg.
Shallow Conc. Flow - Woodland - 195 lf @ S = 3.5% avg.
Trap/Vee Channel Flow - 445 lf @ S = 1.0% avg.
Circular 8" Pipe - 30 lf @ S = 0.50% avg.
Trap/Vee Channel Flow - 724 lf @ S = 1.50% avg.

To Design Point 2 - (DP 2)

REFERENCE HYDROCAD (HYDRAULIC & HYDROLOGIC) MODELING RESULTS PRESENTED WITH THESE PLANS

REVISIONS

No.	Date	BY	Description

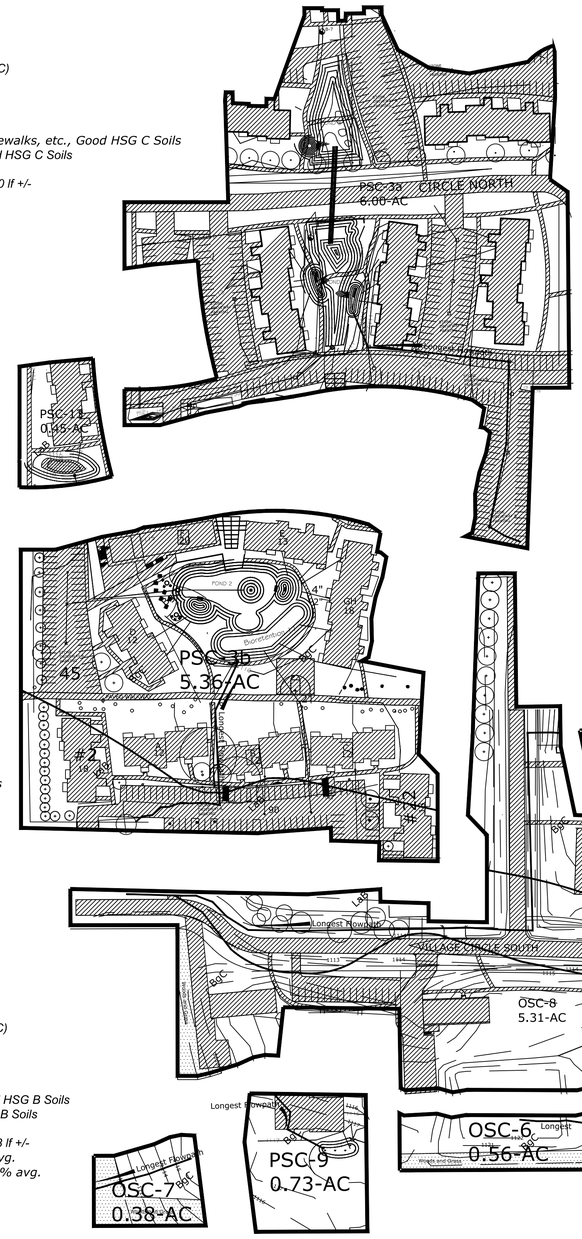
HYDROLOGIC AND HYDRAULIC
RUNOFF WORKSHEET EXISTING

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO., N.Y.

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: N.T.S.
DRAWN: SDG
JOB:
SHEET: ST-7



Proposed Subcatchment - 13 (PSC-13)
Proposed Site Conditions - Area = 19,618 SF (0.45-AC)

Surface Conditions & Soils:
100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 100 lf +/-
Sheet Flow, Paved - 100 lf @ S = 0.8% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 3a (PSC-3a)
Proposed Site Conditions - Area = 261,620 SF (6.00-AC)

Surface Conditions & Soils:
76% BgC Hydrologic Soil Group (HSG) B
24% LaB, EaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 518 lf +/-
Sheet Flow, Smooth surfaces - 48 lf @ S = 0.25% avg.
Circular Pipe, 10" - 470 lf @ S = 0.4% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 3b (PSC-3b)
Proposed Site Conditions - Area = 233,549 SF (5.36-AC)

Surface Conditions & Soils:
90% BgC Hydrologic Soil Group (HSG) B
10% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 316 lf +/-
Sheet Flow, Paved - 33 lf @ S = 1.0% avg.
Circular Pipe, 10" - 216 lf @ S = 0.3% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 12 (PSC-12)
Proposed Site Conditions - Area = 26,333 SF (0.60-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Paved, Rooftops, etc. Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 87 lf +/-
Sheet Flow, Paved - 60 lf @ S = 0.4% avg.
Sheet Flow, Dense Grass - 27 lf @ S = 2.4% avg.

To Design Point 2 - (DP 2)

Proposed Off-Subcatchment - 8 (OSC-8)
Proposed Site Conditions - Area = 230,217 SF (529-AC)

Surface Conditions & Soils:
72% BgC Hydrologic Soil Group (HSG) B
28% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 1,358 lf +/-
Sheet Flow, Paved - 43 lf @ S = 14% avg.
Trap/Vee Channel Flow - 290 lf @ S = 0.25% avg.
Culvert 8" - 31 lf @ S = 0.3% avg.
Trap-Vee Channel Flow - 994 lf @ S = 0.4% avg.

To Design Point 2 - (DP 2)

Proposed Off-Site Subcatchment - 7 (OSC-7)
Proposed Site Conditions - Area = 16,701 SF (0.38-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 58, Woods/Grass Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 143 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 4.0% avg.
Shallow Conc. Flow, Woodland - 43 lf @ S = 0.5% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 9 (PSC-9)
Proposed Site Conditions - Area = 31,656 SF (0.73-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils
Runoff Curve Number = 85, Gravel w/ROW, Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 114 lf +/-
Sheet Flow, Paved - 56 lf @ S = 30% avg.
Pipe 4" - 58 lf @ S = 0.5% avg.

To Design Point 2 - (DP 2)

Proposed Off-Site Subcatchment - 6 (OSC-6)
Proposed Site Conditions - Area = 24,184 SF (0.56-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 58, Woods/Grass Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 164 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 1.5% avg.
Shallow Conc. Flow, Grassed Waterway - 26 lf @ S = 1.5% avg.
Shallow Conc. Flow, Grassed Waterway - 38 lf @ S = 0.5% avg.

To Design Point 2 - (DP 2)

Proposed Subcatchment - 8 (PSC-8)
Proposed Site Conditions - Area = 59,614 SF (1.37-AC)

Surface Conditions & Soils:
56% BgC Hydrologic Soil Group (HSG) B
44% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 128 lf +/-
Sheet Flow, Dense Grass - 28 lf @ S = 0.5% avg.
Sheet Flow, Paved - 72 lf @ S = 1.0% avg.
Shallow Concentrated Flow, Grassed Waterway - 28 lf @ S = 1.0% avg.

To Design Point 2 - (DP 2)

REFERENCE HYDROCAD (HYDRAULIC & HYDROLOGIC) MODELING RESULTS PRESENTED WITH THESE PLANS

REVISIONS

No.	Date	SYM.	Description

HYDROLOGIC AND HYDRAULIC
RUNOFF WORKSHEET - PROPOSED 1

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO., N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPENCER, NY 14883

TIMOTHY C. BUHL, P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: N.T.S.
DRAWN: SDG
JOB:
SHEET: ST-8

<u>Proposed Subcatchment - 4 (PSC-4)</u>
Proposed Site Conditions - Area = 51,378 SF (1.18-AC)

Surface Conditions & Soils:
72% BgC Hydrologic Soil Group (HSG) B
28% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 247 lf +/-
Sheet Flow, Paved - 100 lf @ S = 0.5% avg.
Shallow Conc. Flow - Smooth Surfaces - 42 lf @ S = 0.5% avg.
Culvert 8" - 15 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 132 lf @ S = 0.5% avg.

To Design Point 1 - (DP 1)

<u>Proposed Off-Site Subcatchment - 2 (OSC-2)</u>
Proposed Site Conditions - Area = 148,500 SF (3.41-AC)

Surface Conditions & Soils:
98.2% BgC Hydrologic Soil Group (HSG) B
1.8% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 937 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 3.5% avg.
Shallow Conc. Flow, Grassed Waterway - 70 lf @ S = 4.3% avg.
Trap Vee Channel Flow - 382 lf @ S = 0.5% avg.
Culvert 8" - 40 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 345 lf @ S = 2.3% avg.

To Design Point 1 - (DP 1)

<u>Proposed Off-Site Subcatchment - 3 (OSC-3)</u>
Proposed Site Conditions - Area = 169,783 SF (3.90-AC)

Surface Conditions & Soils:
31% BgC Hydrologic Soil Group (HSG) B
69% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 1,160 lf +/-
Sheet Flow, Paved - 23 lf @ S = 1.0% avg.
Sheet Flow, Dense Grass - 53 lf @ S = 2.0% avg.
Trap Vee Channel Flow - 755 lf @ S = 0.5% avg.
Culvert 8" - 31 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 10 lf @ S = 0.5% avg.
Culvert 8" - 31 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 90 lf @ S = 0.5% avg.
Culvert 8" - 31 lf @ S = 0.5% avg.
Trap/Vee Channel Flow - 158 lf @ S = 0.5% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 6 (PSC-6)</u>
Proposed Site Conditions - Area = 44,399 SF (1.02-AC)

Surface Conditions & Soils:
100% LaB, ErA Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 209 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 2.5% avg.
Shallow Conc. Flow, Grassed Waterway - 109 lf @ S = 0.8% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 2 (PSC-2)</u>
Proposed Site Conditions - Area = 41,888 SF (0.96-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 160 lf +/-
Sheet Flow, Paved - 100 lf @ S = 3.5% avg.
Shallow Conc. Flow, Paved - 8 lf @ S = 3.5% avg.
Shallow Conc. Flow, Grassed Waterway - 52 lf @ S = 3.8% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 5 (PSC-5)</u>
Proposed Site Conditions - Area = 34,675 SF (0.80-AC)

Surface Conditions & Soils:
91% BgC Hydrologic Soil Group (HSG) B
09% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG &C Soils

Overland Stormwater Runoff - Longest Flowpath = 104 lf +/-
Sheet Flow, Dense Grass - 34 lf @ S = 0.8% avg.
Sheet Flow, Paved - 66 lf @ S = 1.5% avg.
Shallow Conc. Flow, Paved - 4 lf @ S = 1.5% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 1 (PSC-1)</u>
Proposed Site Conditions - Area = 40,204 SF (0.92-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 146 lf +/-
Sheet Flow, Paved - 100 lf @ S = 2.0% avg.
Shallow Conc. Flow, Paved - 24 lf @ S = 2.0% avg.
Shallow Conc. Flow, Grassed Waterway - 22 lf @ S = 2.0% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 11 (PSC-11)</u>
Proposed Site Conditions - Area = 37,336 SF (0.86-AC)

Surface Conditions & Soils:
57% BgC Hydrologic Soil Group (HSG) B
43% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 132 lf +/-
Sheet Flow, Dense Grass - 16 lf @ S = 0.5% avg.
Sheet Flow, Paved - 23 lf @ S = 1.0% avg.
Sheet Flow, Dense Grass - 61 lf @ S = 0.5% avg.
Shallow Concentrated Flow, Grassed Waterway - 32 lf @ S = 2.0% avg.

To Design Point 1 - (DP 1)

<u>Proposed Off-Site Subcatchment - 5 (OSC-5)</u>
Proposed Site Conditions - Area = 49,832 SF (1.14-AC)

Surface Conditions & Soils:
100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 178 lf +/-
Sheet Flow, Woods - 100 lf @ S = 1.0% avg.
Shallow Concentrated Flow, Woodland - 78 lf @ S = 1.0% avg.

To Design Point 1 - (DP 1)

<u>Proposed Off-Subcatchment - 1 (OSC-1)</u>
Proposed Site Conditions - Area = 8,035 SF (0.18-AC)

Surface Conditions & Soils:
100% BgC Hydrologic Soil Group (HSG) B

Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils
Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 214 lf +/-
Sheet Flow, Short Grass - 100 lf @ S = 1.5% avg.
Shallow Conc. Flow, Grassed Waterway - 74 lf @ S = 2.0% avg.
Trap/Vee Channel Flow - 40 lf @ S = 1.5% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 10 (PSC-10)</u>
Proposed Site Conditions - Area = 124,018 SF (2.85-AC)

Surface Conditions & Soils:
63% BgC Hydrologic Soil Group (HSG) B
37% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG B&C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils
Runoff Curve Number = 61, >75% Grass Cover, Good HSG B Soils

Overland Stormwater Runoff - Longest Flowpath = 275 lf +/-
Sheet Flow, Dense Grass- 87 lf @ S = 3.4% avg.
Sheet Flow, Paved - 13 lf @ S = 3.0% avg.
Shallow Conc. Flow, Paved - 29 lf @ S = 1.0% avg.
Shallow Conc. Flow, Grassed Waterway -146 lf @ S = 0.6% avg.

To Design Point 1 - (DP 1)

<u>Proposed Subcatchment - 7 (PSC-7)</u>
Proposed Site Conditions - Area = 37,924 SF (0.87-AC)

Surface Conditions & Soils:
100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 135 lf +/-
Sheet Flow, Dense Grass - 81 lf @ S = 2.4% avg.
Sheet Flow, Paved - 19 lf @ S = 1.0% avg.
Shallow Conc. Flow, Grassed Waterway - 35 lf @ S = 1.0% avg.

To Design Point 1 - (DP 1)

<u>Proposed Off-Site Subcatchment - 4a (OSC-4a)</u>
Proposed Site Conditions - Area = 85,505 SF (1.96-AC)

Surface Conditions & Soils:
100% LaB Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils
Runoff Curve Number = 72, Woods/Grass, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 404 lf +/-
Sheet Flow, Dense Grass - 100 lf @ S = 5.0% avg.
Shallow Conc. Flow - Grassed Waterway - 62 lf @ S = 4.1% avg.
Trap Vee Channel Flow - 242 lf @ S = 0.5% avg.

To Design Point 1 - (DP 1)

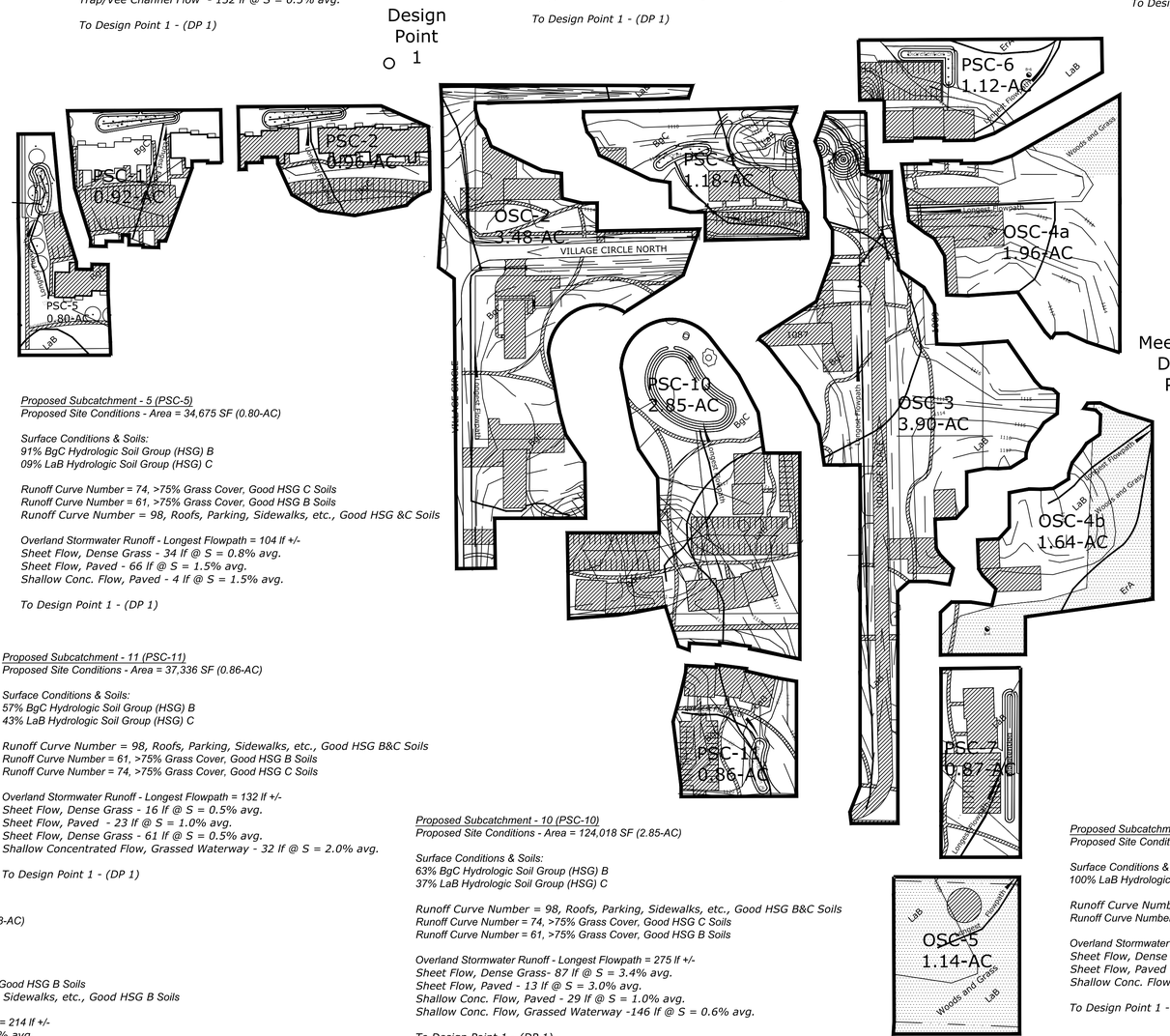
<u>Proposed Off-Site Subcatchment - 4b (OSC-4b)</u>
Proposed Site Conditions - Area = 71,580 SF (1.64-AC)

Surface Conditions & Soils:
100% LaB, ErA Hydrologic Soil Group (HSG) C

Runoff Curve Number = 98, Roofs, Parking, Sidewalks, etc., Good HSG C Soils
Runoff Curve Number = 72, Woods and Grass Combination, Good HSG C Soils
Runoff Curve Number = 74, >75% Grass Cover, Good HSG C Soils

Overland Stormwater Runoff - Longest Flowpath = 209 lf +/-
Sheet Flow, Dense Grass - 88 lf @ S = 3.4% avg.
Sheet Flow, Woodland - 12 lf @ S = 3.4% avg.
Shallow Conc. Flow - Woodland - 109 lf @ S = 1.0% avg.

To Design Point 1 - (DP 1)



REFERENCE HYDROCAD (HYDRAULIC & HYDROLOGIC) MODELING RESULTS PRESENTED WITH THESE PLANS

REVISIONS

No.	Date	SYM.	Description

HYDROLOGIC AND HYDRAULIC
RUNOFF WORKSHEET - PROPOSED 2

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPNCER, NY 14883

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: Feb 24, 2022
SCALE: N.T.S.
DRAWN: SDG
JOB:
SHEET: ST-9

WALL SCONCES (TYP)
SEE MFG. CUT SHEETS FOR PHOTOMETRICS

FRONT EXTERIOR VIEW C5 A-200

REAR EXTERIOR VIEW A5 A-200

REVISIONS

No.	Date	SYM.	Description

TYPICAL BUILDING ELEVATIONS
EXTERIOR LIGHTING

LUCENTE HOLDINGS, INC
381 HAGADORN HILL RD.
SPENCER, NY 14883

VILLAGE CIRCLE - PHASE 7
LUCENTE HOMES/VILLAGE SOLARS
LANSING (T) TOMPKINS CO. N.Y.

STATE OF NEW YORK TIMOTHY C. BUHL LICENSED PROFESSIONAL ENGINEER

TIMOTHY C. BUHL,P.E.
35 FIRE LANE 24, AUBURN, NY 13021

DATE: MAY 20, 2022
SCALE: 1"=50'
DRAWN: SDG
JOB:
SHEET: ST-10