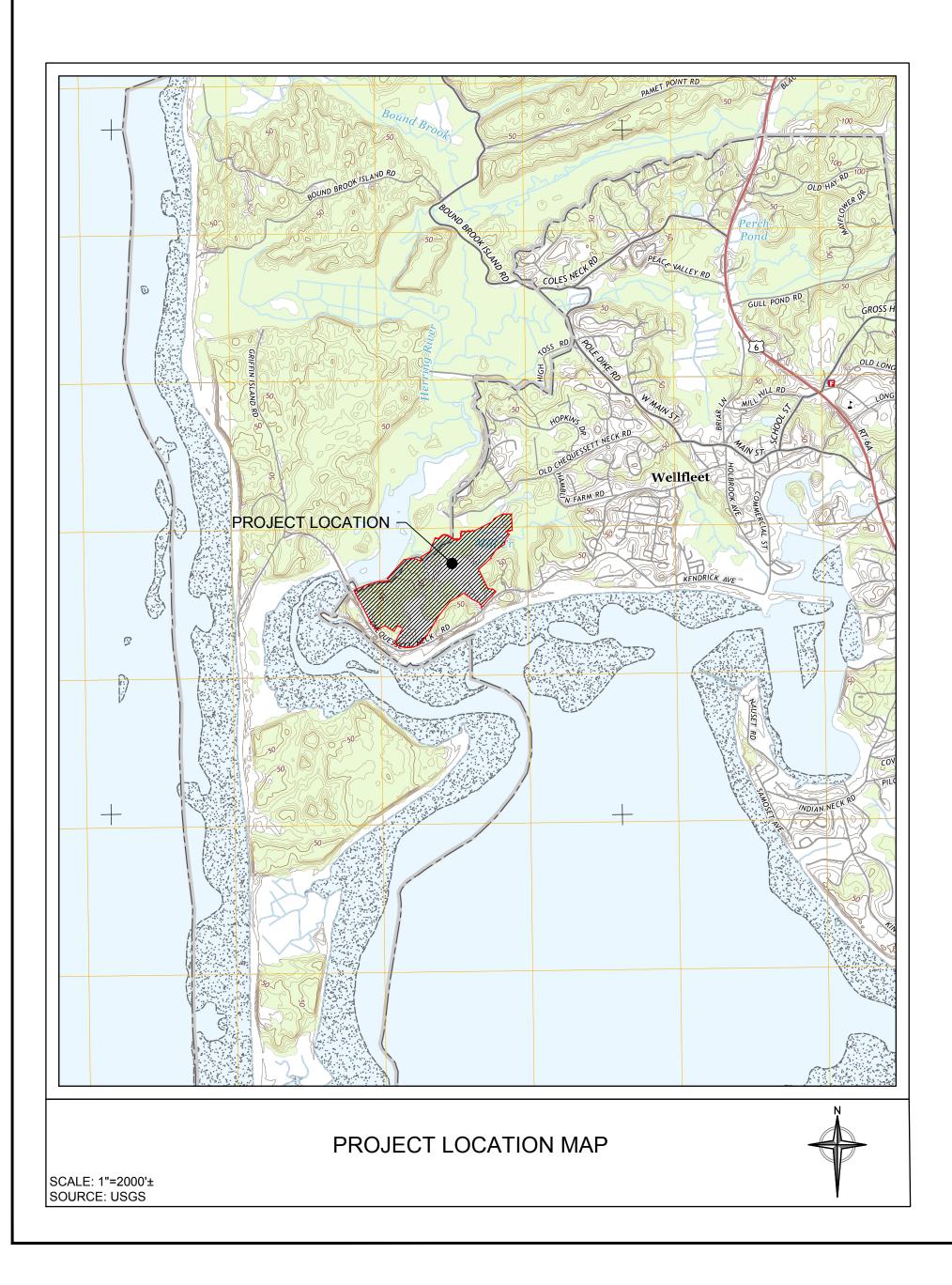
HERRING RIVER RESTORATION PROJECT WELLFLEET AND TRURO, MASSACHUSETTS

CHEQUESSETT YACHT AND COUNTRY CLUB RECONFIGURATION PERMIT-LEVEL DESIGN PLANS



SEPTEMBER 13, 2019

DRAFT

PREPARED FOR:



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LLC, DATED 09/13/2019

"CONCEPT TIMBER CART BRIDGE", YORK BRIDGE CONCEPTS, DATED 09/12/2019

- 1. BASE PLAN PROVIDED BY MACZM ORIGINALLY PRODUCED BY SLADE ASSOCIATES, INC. WELLFLEET, MASSACHUSETTS FROM "TOPOGRAPHIC PLAN OF LAND IN WELLFLEET MADE FOR CHEQUESSETT YACHT & COUNTRY CLUB TRUST" DATED DECEMBER 17, 1999, SUPPLEMENTED BY THE HORSLEY WITTEN GROUP AND HOWARD MAURER DESIGN GROUP, INC. IN 2006.
- BASE PLAN SUPPLEMENTED BY HORSLEY WITTEN GROUP TO INCLUDE RESOURCE AREA DELINEATIONS AS APPROVED BY THE WELLFLEET CONSERVATION COMMISSION IN ORAD DATED APRIL 16, 2006 (MADEP FILE NUMBER SE-77-1097).
- PLAN OF LAND IN WELLFLEET SURVEY BY SLADE ASSOCIATES, INC. LOTS 70 AND 76 (JANUARY 6, 2014) AND LOTS 57 AND F⁵ (SEPTEMBER 28, 2012).
- 4. GOLF COURSE GRADING AND LAYOUT PROVIDED BY HOWARD MAURER GOLF COURSE DESIGN, LLC.
- 5. TOPOGRAPHY SOURCE: 2013-2014 SANDY LIDAR OBTAINED FROM MASSGIS.
- 6. ALL ELEVATIONS REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988. THE HORIZONTAL DATUM REFERENCES MASSACHUSETTS STATE PLANE. MAINLAND ZONE, NORTH AMERICAN DATUM (NAD) 1927.
- 7. FEMA FLOOD ZONE AE = 13 FEET (NAVD88) PER FEMA FIRM NO. 25001CO241J EFFECTIVE DATE JULY 16, 2014.

CONSTRUCTION NOTES

- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
- WORK WITHIN LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE'S STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- 3. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, OR FIRE HYDRANTS WITHOUT APPROPRIATE PERMITS.
- 4. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
- 5. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE AND NO ADDITIONAL COST TO THE OWNER.
- 6 IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL SEDIMENT GROUNDWATER OR OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.
- 7. THE CONTRACTOR SHALL, AS SPECIFIED BY THE ENGINEER, ESTABLISH "CONSTRUCTION LIMITS" ON THE SITE BY ACCEPTABLE VISIBLE MARKERS. ALL WORK AND EQUIPMENT SHALL BE CONFINED TO WITHIN THESE LIMITS, UNLESS OTHERWISE SPECIFICALLY AUTHORIZED.
- 8. NO CHANGES ARE TO BE MADE UNLESS AUTHORIZED BY THE ENGINEER, OWNER, AND GOLF COURSE ARCHITECT.
- 9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL SAFETY CODES, REGULATIONS, LEGAL REQUIREMENTS, PERMIT CONDITIONS, ETC.
- 10. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, STREETS, PAVEMENTS, HIGHWAY GUARDS, CURBING, EDGING, TREES AND PLANTINGS. ETC. ON OR OFF THE PREMISES. AND SHALL REPAIR AND REPLACE OR OTHERWISE MAKE GOOD AT HIS/HER OWN EXPENSE AS REQUIRED BY THE ENGINEER ANY ITEMS DAMAGED AS A RESULT OF THE CONTRACTOR'S WORK.
- 11. THE CONTRACTOR SHALL DISPOSE OF ALL RUBBISH, AND DEBRIS IN ACCORDANCE WITH THE SPECIFICATIONS AND ALL APPLICABLE CODES AND REGULATIONS. THE CONTRACTOR SHALL LEAVE THE PROJECT SITE IN SAFE AND CLEAN CONDITION UPON COMPLETION OF THE SITE CLEARANCE WORK.
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING AND SHORING OF EXCAVATIONS IN ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND REGULATIONS.
- 13. WORK ASSOCIATED WITH THE PROJECT IS EXPECTED TO OCCUR IN THE FOLLOWING ORDER, THOUGH SOME TASKS MAY OCCUR SIMULTANEOUSLY OR IN A DIFFERENT ORDER BASED ON CONTRACTOR'S MEANS AND METHODS:
 - 13.1. INSTALL CONSTRUCTION ENTRANCE
 - 13.2. INSTALL SNOW FENCE IDENTIFYING LIMITS OF DISTURBANCE AND AREAS INTERNAL TO THE SITE THAT REQUIRE PROTECTION (AS SHOWN ON PLANS) BEFORE START OF LAND DISTURBANCE.
 - 13.3. INSTALL ALL PERIMETER EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE MA SESC HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE.
 - 13.4. INSTALL AND GRADE PROPOSED HAUL ROAD.
 - 13.5. INSTALL INTERIOR SEDIMENT CONTROL ONCE ROUGH GRADING OF RESPECTIVE AREA IS COMPLETE, AND PRIOR TO COMMENCEMENT OF UPGRADIENT FARTH WORK
 - 13.6. UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE. BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. SUCH TEMPORARY OR PERMANENT SOIL STABILIZATION MEASURES MUST BE INSTALLED PRIOR TO INITIATING LAND DISTURBANCE IN SUBSEQUENT PHASES.
 - 13.7. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES WHILE EARTHWORK IS ONGOING IS REQUIRED.
 - 13.8. COMPLETE FINAL SITE STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN COMPLETED.
 - 13.9. RESTORE HAUL ROAD.
 - 13.10. REMOVE SNOW FENCE AND EROSION CONTROLS.
- PROPOSED GRADES SHOWN REPRESENT FINAL CONDITIONS AFTER ANTICIPATED SETTLEMENT. A FINAL GEOTECHNICAL EVALUATION SHALL BE CONDUCTED TO DETERMINE INITIAL ELEVATIONS.
- 15. CLEAR AND GRUB VEGETATION INDICATED ON PLANT SHALL INCLUDE REMOVAL OF SHRUBS AND UNDERBRUSH REMOVAL OF ROOTS ROUGH GRADING, FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
- 16. STRIP AND STORE EXISTING TOPSOIL FOR LATER REUSE WHERE APPROPRIATE AND AS NOTED ON PLAN WITH APPROPRIATE EROSION AND SEDIMENT CONTROL
- 17. THE STORAGE OF MATERIALS AND EQUIPMENT WILL BE PERMITTED AT LOCATIONS DESIGNATED BY OWNER OR OWNER'S REPRESENTATIVE. PROTECTION OF STORED MATERIALS AND EQUIPMENT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 18. CONTRACTOR'S STAGING AREA MUST BE WITHIN THE CONTRACT LIMIT LINE AND IN AREAS APPROVED BY THE OWNER. ANY OTHER AREAS THAT THE CONTRACTOR MAY WISH TO USE FOR STAGING MUST BE COORDINATED WITH THE OWNER.
- 19. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND GRADES ON THE GROUND AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER.
- 20. CONTRACTOR SHALL ENSURE ALL AREAS ARE PROPERLY PITCHED TO DRAIN WITH NO SURFACE WATER PONDING.
- ALL NEW CART PATHS MUST CONFORM TO CURRENT AMERICANS WITH DISABILITIES ACT (ADA) REGULATIONS. CART PATHS SHALL MAINTAIN A RUNNING SLOPE (PARALLEL TO THE DIRECTION OF TRAVEL) BETWEEN 1% MIN AND 10% MAX. ANY DISCREPANCIES NOT ALLOWING THIS TO OCCUR SHOULD BE REPORTED TO THE OWNER PRIOR TO CONTINUING WORK
- 22. WHERE NEW EARTH WORK MEETS EXISTING GROUND CONTRACTOR SHALL BLEND NEW EARTH WORK SMOOTHLY INTO EXISTING PROVIDING VERTICAL CURVES OR ROUNDS AT ALL TOP AND BOTTOM OF SLOPES.
- 23. WHERE A SPECIFIC LIMIT OF WORK LINE IS NOT OBVIOUS OR IMPLIED BLEND GRADES TO EXISTING CONDITIONS WITHIN 5 FEET OF PROPOSED CONTOURS.
- 24. SEED MIXES FOR GREENS, TEES, FAIRWAYS, INNER ROUGH AND OUTER ROUGH TO BE SPECIFIED BY THE GOLF COURSE ARCHITECT. SEE ADDITIONAL NOTES FOR REVEGETATION WITHIN OUT-OF-PLAY AREAS
- 25. NEW AND RECONSTRUCTED GREENS SHALL BE CONSTRUCTED TO THE MODIFIED UNTIED STATES GOLF ASSOCIATION (USGA) STANDARDS.



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HOWARD MAURER GOLF COURSE DESIGN, LLC **NEWBURY, NEW HAMPSHIRE**

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- CONSTRUCTION NOTES CONTINUED:
- 26. A WETLAND RESTORATION SEED MIX COMPOSED OF SPECIES WITH MODERATE SALT TOLERATE SHALL BE SLICE SEEDED INTO EXISTING TURE AREAS WITHIN THE INTERIOR PORTIONS OF THE GOLE COURSE WHICH WILL NOT BE ELEVATED AND SUBJECT TO TIDAL INFLUENCE (SEE SEED MIX TABLE). SEEDING WILL OCCUR AFTER PLANTING IS COMPLETE TO STABILIZE SOIL AND REDUCE WEED GROWTH.
- 27. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 28. FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, AND OTHER DELETERIOUS MATERIAL.
- 29. ALL NECESSARY FEES AND CONSTRUCTION PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- 30. WORK WITHIN PUBLIC WAYS SHALL COMPLY WITH APPLICABLE MUNICIPAL AND STATE REQUIREMENTS.
- 31. MAINTENANCE OR REFUELING OF VEHICLES OR CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM ANY AREA WITHIN 25 FEET OF A WETLAND. 32. THE CONTRACTOR SHALL USE DESIGNATED LOCATIONS WITHIN THE ESTABLISHED LIMIT OF DISTURBANCE TO ACCESS
- THE SITE.
- HEREIN.
- 34. CONTRACTOR IS RESPONSIBLE FOR REVIEWING, UNDERSTANDING, AND COMPLYING WITH ALL PERMIT CONDITIONS.

SEDIMENTATION & EROSION CONTROL NOTES:

- 2. PERIMETER SOIL AND EROSION CONTROLS SHALL BE PLACED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN THE TRIBUTARY WATERSHED. CONTRACTOR TO NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES. ALL SOIL AND EROSION CONTROLS SHALL BE CHECKED AND REPAIRED AS NECESSARY.
- EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS OF EACH STORM EVENT GREATER THAN 0.25" OF RAINFALL. ALL DAMAGED FILTER SOCKS SHALL BE REPLACED. ACCUMULATED SEDIMENT AS DESCRIBED BELOW, SHALL BE STOCKPILED FOR LATER REUSE.
- 4. SOIL STOCKPILES SHALL BE MANAGED AS SHOWN HEREIN, AND AS SPECIFIED BY THE ENGINEER.
- 5. ALL SOIL STOCKPILES SHALL BE SURROUNDED BY EROSION CONTROL BARRIERS REGARDLESS OF THEIR DURATION OF EXPOSURE. SOILS TO BE STOCKPILED FOR A PERIOD OF MORE THAN 7 DAYS SHALL BE TEMPORARILY SEEDED, MULCHED, OR COVERED WITH CLEAR PLASTIC.
- 6. SOIL STOCKPILES SHALL NOT BE LOCATED WITHIN 100 FEET OF A WETLAND.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION CONTROL MEASURES TO PREVENT OFF-SITE RACKING OF FARTH SEDIMENT AND DEBRIS 8. CONTRACTOR TO BEGIN PERMANENT OR TEMPORARY STABILIZATION OF ALL CUT AND FILL SLOPES WITHIN 72 HOURS OF
- THEIR COMPLETION.
- BORROW SOURCE SHALL BE SAMPLED AND APPROVED FOR USE BY THE ARCHITECT PRIOR TO ITS DELIVERY TO THE SITE.
-). EROSION CONTROL MEASURES SHALL BE REMOVED WHEN THE DISTURBED AREA IS STABILIZED OR AS SPECIFIED BY THE ENGINEER. DISTURBED AREA RESULTING FROM THE FILTER SOCK REMOVAL OPERATION SHALL BE PERMANENTLY SEEDED. ALL ACCUMULATED SEDIMENT SHALL BE STOCKPILED FOR LATER REUSE.
- 11. TEMPORARY SEEDING SHALL BE USED WHERE VEGETATIVE COVER IS REQUIRED FOR SIX (6) MONTHS OR LONGER ON DISTURBED SOIL AREAS. SUCH AREAS SHALL BE SEEDED IF THE SOILS WILL BE EXPOSED FOR MORE THAN 30 DAYS. RAPIDLY GROWING ANNUAL GRASSES WILL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). A HYDRAULICALLY APPLIED MATERIAL, SUCH AS GEOPERM™, SHALL BE APPLIED TO SOME DISTURBED AREAS IN LIEU OF HYDRO-SEED. THE SITE SHALL BE CHECKED PERIODICALLY TO ASSESS THE GROWTH OF THE PLANTS. IF SEEDING FAILS TO GROW, THE AREA SHALL BE RE-ESTABLISHED TO PROVIDE ADEQUATE EROSION CONTROL. THE SEED MIXTURE TO BE USED FOR TEMPORARY STABILIZATION ARE SHOWN HEREIN.
- 12. PERMANENT SEEDING SHALL BE USED ON AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL AND REDUCE EROSION AND SEDIMENTATION. RAPIDLY GROWING ANNUAL GRASSES SHALL BE UNIFORMLY APPLIED AT THE RATE ASSOCIATED WITH HYDRAULIC APPLICATION (HYDROSEEDING). THE SEED MIXTURE TO BE USED FOR PERMANENT STABILIZATION ARE SHOWN HEREIN.
- 13. PERMANENT SEEDING SHALL OCCUR BETWEEN APRIL 1 AND MAY 31, OR AUGUST 1 AND SEPTEMBER 10.
- 14. FILTER SOCKS SHALL BE INSTALLED AT LOCATIONS SHOWN HEREIN. FILTER SOCKS SHALL BE STAKED AT TOP OF CUT SLOPES TO DIVERT STORMWATER RUNOFF
- 15. DUST FROM THE SITE SHALL BE CONTROLLED BY USING COVERED TRUCKS, WETTING EXPOSED SOIL AREAS, SEEDING, INSTALLING WIND SCREENS AND/OR BARRIERS, APPLYING SOIL STABILIZATION AGENTS, MINIMIZING UNNECESSARY TRANSFERS AND DISTURBANCES OF EARTH MATERIALS AND ON-GOING CONSTRUCTION CLEAN-UP. SEVERAL APPLICATIONS PER DAY MAY BE NECESSARY DEPENDING UPON WEATHER CONDITIONS AND WORK ACTIVITY. CALCIUM CHLORIDE MAY ALSO BE USED TO CONTROL DUST INSTEAD OF WET SUPPRESSION WHEN FREEZING CONDITIONS EXIST.
- 16 TEMPORARY ABOVE-GRADE CONCRETE WASHOUTS SHALL BE PROVIDED. THE WASHOUT AREA SHALL BE INSPECTED DAILY TO ENSURE ALL FLUIDS ARE CONTAINED AND CLEANED OUT PERIODICALLY TO ENSURE PROPER OPERATION.

OUT-OF-PLAY REVEGETATION ZONE PLANTING NOTES:

- 1. FINAL APPROVAL OF PLANT MATERIAL WILL NOT BE PROVIDED UNTIL DELIVERY AND REVIEW ON SITE.
- 2. SHRUBS WITH LARGE CIRCLING ROOTS OR TOO DEEP ROOT SYSTEMS WILL BE REJECTED
- 3. ALL ROOT PACKAGES MUST BE FREE OF ANY WEEDS.
- 4. AT THE DIRECTION OF THE ARCHITECT, PRUNING MAY BE REQUIRED TO REMOVE DAMAGED, CROSSING, MISSHAPEN, OR LOW BRANCHING LIMBS. SHRUBS SHOULD NOT REQUIRE SIGNIFICANT PRUNING TO CORRECT HEALTH OR AESTHETIC DEFICIENCIES.
- 5. SHRUBS WILL BE PLANTED IN SIMILAR SPECIES CLUSTERS PER DIRECTION OF THE ARCHITECT
- BY THE ARCHITECT
- 8. ANY PLANT MATERIAL NOT MEETING THE SPECIFICATIONS REQUIREMENTS FOR QUALITY WILL BE REJECTED BY THE ARCHITECT. 9. PLANT QUALITY, SIZE, AND CONDITION AS DETERMINED BY STANDARDS SET FORT IN THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARD ANSI 260.1-1973. PLANT NAMES SHALL CONFORM TO LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOIN COMMITTEE OF HORTICULTURE NOMENCLATURE.
- 10. SHRUB PLANT SIZES SHALL MEET MINIMUM SIZE SPECIFIED IN PLANTING TABLE AND BE FULL AND BUSHY.
- 11. PLANTING TIME: PLANTING OF THE REVEGETATION ZONE WILL OCCUR IN THE SPRING TO ENSURE BEST ESTABLISHMENT AS DIRECTED BY THE ARCHITECT.
- ADEQUATE WATERING DURING THIS TIME WITH AN APPROVED METHOD.
- 13. PLANTING WITHIN THE REVEGETATION ZONE WILL BE SUPPLEMENTED WITH A CONSERVATION SEED MID (SEE SEED MIX TABLE). SEEDING WILL OCCUR AFTER PLANTING IS COMPLETE TO STABILIZE SOIL AND REDUCE WEED GROWTH.
- 14. NATIVE PLANTING ARE SELECTED TO THRIVE IN THE DROUGHT MARITIME CONDITIONS. FERTILIZER IN THE FORM OF A SLOW RELEASE FERTILIZER SHALL BE USED ONLY DURING THE ESTABLISHMENT PERIOD OF THE FIRST THREE YEAR, AND THEN ONLY AS NEEDED. SUPPLEMENTAL WATERING BEYOND THE ESTABLISHMENT PERIOD WILL BE THE RESPONSIBILITY OF THE CYCC.
- 15. AS HERBIVORY FROM WHITE-TAILED DEER CAN BE AN ISSUE, PROPOSED SHRUB PLANTING INCLUDE SPECIES WHICH ARE RARELY OR SELDOM SEVERELY DAMAGED. HOWEVER, SITE SPECIFIC HERBIVORY DEPENDS ON THE SEVERITY OF THE WINTER MONTHS WITH HEAVIEST BROWSING OCCURRING FROM OCTOBER THROUGH FEBRUARY, WHEN FOOD IS NATURALLY SCARCE.

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33. THE CONTRACTOR SHALL ONLY BE ALLOWED TO CROSS AND/OR IMPACT WETLAND RESOURCE AREAS AS SPECIFIED

1. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN HEREIN OR AS DIRECTED BY THE ENGINEER.

9 EXISTING LOAM TO BE REUSED, SHALL BE SCREENED TO REMOVE DEBRIS PRIOR TO REUSE LOAM FROM AN OFE SITE

- 6. THE EXACT LOCATIONS OF OUT-OF-BOUND REVEGETATION ZONES AND OUTER ROUGHS WILL BE DESIGNATED ON THE GROUND

7. INSTALL 2" DEPTH DARK BROWN PINEBARK MULCH AROUND PLANTING PITS.

12. MAINTENANCE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN PLANTINGS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. THEY WILL BE RESPONSIBLE FOR COORDINATION WITH THE CYCC SUPERINTENDENT TO INSURE

CYCC RECONFIGU **AP 19 LOT 81** 680 CHEQUESSETT NE WELLFLEET, N

UTILITIES NOTES:

- BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN CONNECTION WITH THE DISCONTINUANCE OR JURISDICTION OF THE LITH ITY COMPANIES SLICH AS ELECTRICITY TELEPHONE WATER GAS AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE WORK TO BE PERFORMED UNDER THIS CONTRACT.
- UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER, THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES.
- 3. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- 4. THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES AND UTILITY COMPANIES, IN WRITING, A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION WITHIN 15 FEET OF A UTILITY LINE.
- 5. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR AND BACKFILLING IN THE VICINITY OF EXISTING UTILITIES, INCLUDING THE USE OF HAND EXCAVATION WHERE APPROPRIATE.
- 6. ALL EXISTING PIPING AND STRUCTURES EXPOSED DURING EXCAVATION SHALL BE ADEQUATELY SUPPORTED, BRACED, OR OTHERWISE PROTECTED DURING CONSTRUCTION ACTIVITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION OF THE CONFLICT.
- 8. UNLESS OTHERWISE NOTED, A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET SHALL BE MAINTAINED BETWEEN WATER AND SEWER LINES.

DOCUMENT USE:

- THESE PLANS AND THE CORRESPONDING CAD DOCUMENTS ARE INSTRUMENTS OF PROFESSIONAL SERVICE PREPARED BY ESS GROUP, INC., AND SHALL NOT BE USED. IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR WHICH IT WAS CREATED WITHOUT THE EXPRESSED WRITTEN CONSENT OF ESS GROUP, INC. ANY UNAUTHORIZED USE, REUSE. MODIFICATION, OR ALTERATION, INCLUDING AUTOMATED CONVERSION OF THIS DOCUMENT, SHALL BE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO ESS GROUP, INC.
- CONTRACTOR SHALL NOT RELY SOLELY ON ELECTRONIC VERSIONS OF PLANS, SPECIFICATIONS, OR DATA FILES THAT ARE OBTAINED FROM THE DESIGNERS OR OWNER, BUT SHALL VERIFY LOCATIONS OF PROJECT FEATURES IN ACCORDANCE WITH THE PAPER COPIES OF THE PLANS AND SPECIFICATIONS THAT ARE SUPPLIED AS PART OF THE CONTRACT DOCUMENTS.
- 3. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS, AND ARE NOT NECESSARILY SCALED TO THEIR ACTUAL DIMENSIONS OR LOCATIONS ON THE DRAWINGS. THE CONTRACTOR SHALL REFER TO THE DETAIL SHEET DIMENSIONS, MANUFACTURER'S LITERATURE, SHOP DRAWINGS, AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.

TABLE 1: CONSERVATION SEED MIX FOR OUT-OF-PLAY REVEGETATION ZONE

GENUS SPECIES	COMMON NAME	
	GRASSES	
FESTUCA OVINA	SHEEP FESCUE	Wetlands Located within
FESTUCA TRACHYPHYLLA	HARD FESCUE	Project Area
FESTUCA ARUNDINACEA	TALL FESCUE	
DESCHAMPSIA FLEXUOSA	HAIRGRASS	─┐
SORGHASTRUM NUTANS	INDIAN GRASS	BVW-A
DANTHONIA SPICATA	POVERTY GRASS	BVW-B
WI	LDFLOWERS	BVW-D BVW-E
COREOPSIS LANCEOLATA	LANCELEAF COREOPSIS	BVW-E
RUDBECKIA HIRTA	BLACKEYED SUSAN	BVW-G
PENSTEMON DIGITALIS	TALL WHITE BEARDTONGUE	BVW-J
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	BVW-K
GEUM CANADENSE	WHITE AVENS	FW-C
SENNA HEBECARPA	WILD SENNA	FW-H
BAPTISTA AUSTRALIS	BLUE FALSE INDIGO	FW-I
EUPATORIUM PERFOLIATUM	BONESET	FW-L HSL-1
LESPEDEZA CAPITATA	ROUNDHEAD LESPEDEZA	HSL-2
SOLIDAGO JUNCEA	EARLY GOLDENROD	HSL-3
	1	HSL-4

TABLE 2: WETLAND RESTORATION SEED MIX

GENUS SPECIES	COMMON NAME
AGROSTIS HYEMALIS	WINTER BENTGRASS
AGROSTIS STOLONIFERA	CREEPING BENTGRASS
AGROSTIS TENUIS	COLONIAL BENTGRASS
PANICUM DICHOTOMIFLORUM	SMOOTH PANICGRASS
SCIRPUS AMERICANUS THREESQUARE BULRUSH	THRESSQUARE BULRUSH
SCIRPUS ROBUSTUS	STURDY BULRUSH
POLYGONUM SAGITTATUM	ARROWLEAF TEARTHUMB

LUW outside Wetland TOTAL *P=Permanent, T=Temporary, sf= square feet, If=linear feet Coastal Bank: 6,065 lf P Land Subject to Coastal Storm Flowage: 947,151 sf P

50-foot Filter Strip under WEPR: 522.068 sf P 100-foot Buffer Zone under WEPR (50-100 feet): 334,276 sf P 100-foot Buffer Zone under WPA: 369,152 sf P Notes:

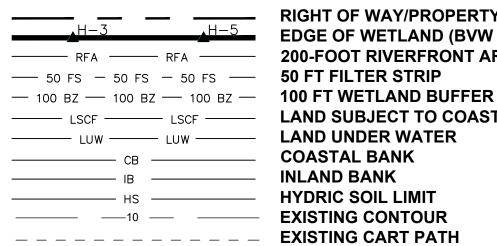
1. There is approx. 334,400 sf of overlap between the impact area of the 100-foot BZ under the WPA and the 50-foot Filter Strip under the WEPR. 2. There is approx. 174,220 sf of overlap between the impact area of the 100-foot BZ under the WPA and the 50 to 100-foot BZ under the WEPR. 3. There is approx. 429,900 sf of overlap between the impact area of the 100-foot BZ under the WPA and LSCSF. 4. There is approx. 481,500 sf of overlap between the impact area of LSCSF and the hydric soils areas under the WEPR.

TABLE 3: PLANTING SCHEDULE FOR OUT-OF-PLAY REVEGETATION ZONE

COMMON NAME	SCIENTIFIC NAME	QUANTITY	SIZE	CONTAINER SIZE	ROOT	SPACING
BEARBERRY	ARCTOSTAPHYLOA UVA-URSI	75	6-12"	#1	CONTAINER	CLUSTERED
BAYBERRY	MORELLA PENSYLVANICA	75	18-24"	#1	CONTAINER	CLUSTERED
BEACH PLUM	PRUNUS MARITIMA	75	18-24"	#1	CONTAINER	CLUSTERED
BLACK CHOKEBERRY	ARONIA MELANOCARPA	75	18-24"	#1	CONTAINER	CLUSTERED
COMMON JUNIPER	JUNIPERUS COMMUNIS	75	18-24"	#1	CONTAINER	CLUSTERED
LOWBUSH BLUEBERRY	VACCINIUM ANGUSTIFOLIUM	75	12-18"	#1	CONTAINER	CLUSTERED
SCRUB OAK	QUERCUS ILICIFOLIA	75	18-24"	#1	CONTAINER	CLUSTERED
SHEEP LAUREL	KALMIA ANGUSTIFOLIA	75	18-24"	#1	CONTAINER	CLUSTERED
SWEET FERN	COMPTONIA PEREGRINA	75	18-24"	#1	CONTAINER	CLUSTERED
SWEET PEPPERBUSH	CLETHRA ALNIFOLIA	75	18-24"	#1	CONTAINER	CLUSTERED
WINGED SUMAC	RHUS COPALLINUM	75	18-24"	#1	CONTAINER	CLUSTERED

									-
IRATION								NOTES	N-1
CK ROAD									
1A									
									PROJECT NO: F452-001
		No.	REVISION	DATE	DRAWN	DESIGN	СНК	DRAFT-NOT FOR CONSTRUCTION	DATE OF ISSUE: 09/13/2019 SHEET NO: 2 OF 31
	Not Valid Without Signature	DRAW	N BY: DWB DESIGNED BY: DSB CHECKED BY:	:					

EXISTING CONDITIONS LEGEND:



EDGE OF WETLAND (BVW & FW)) - RFA ------ RFA ------ 200-FOOT RIVERFRONT AREA ----- LSCF ------ LSCF ------ LAND SUBJECT TO COASTAL STORM FLOWAGE COASTAL BANK INLAND BANK HYDRIC SOIL LIMIT EXISTING CONTOUR EXISTING CART PATH I Y Y Y Y Y Y Y Y Y Y X EXISTING VEGETATION/TREE LINE

RIGHT OF WAY/PROPERTY LINES

PROPOSED CONDITIONS LEGEND

LOD DCS

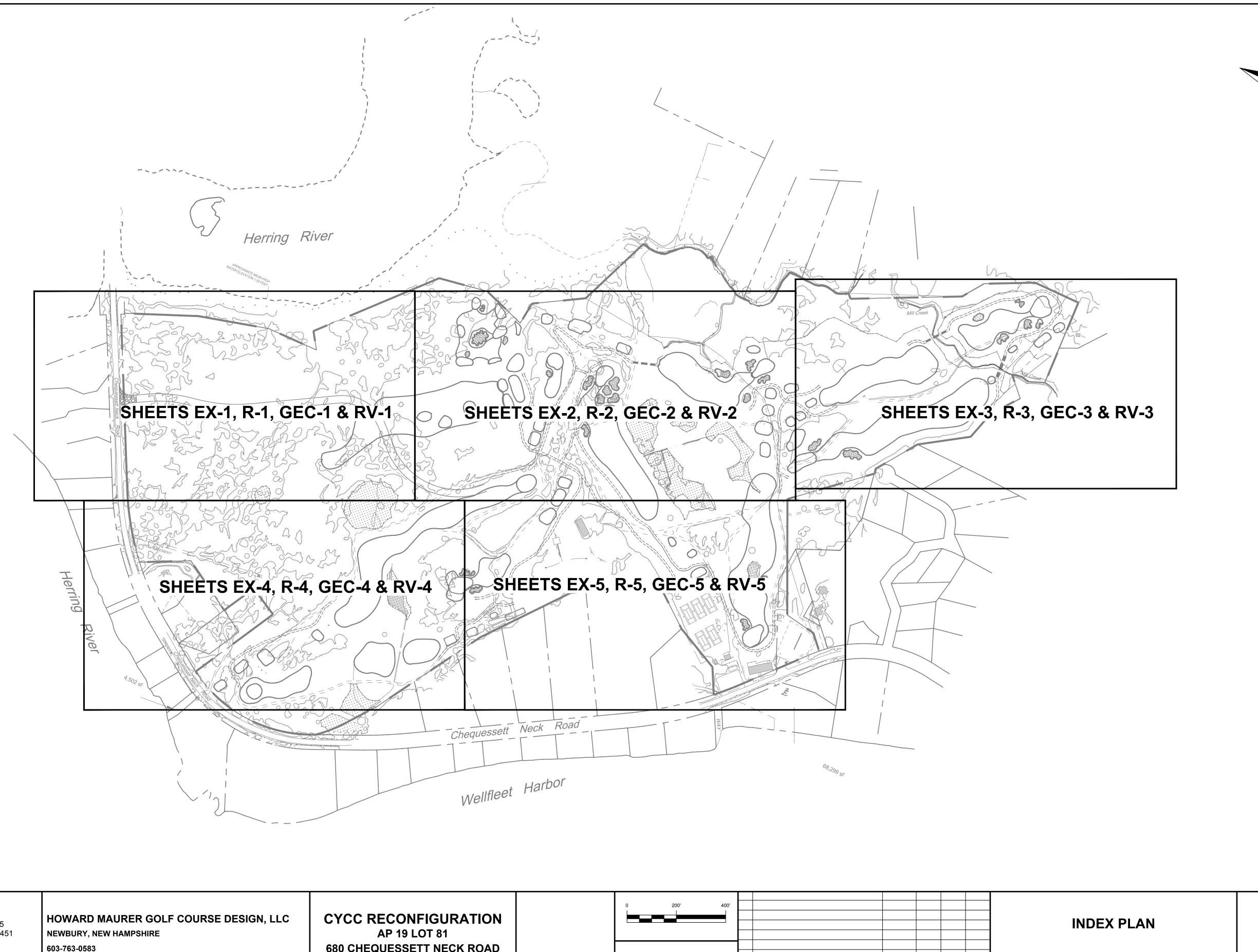
PROPOSED CONTOURS PROPOSED LIMITS OF DISTURBANCE **PROPOSED EROSION CONTROL/LIMITS OF DISTURBANCE** PROPOSED CART PATH

PROPOSED TIMBER BRIDGE

GRADE TO DRAIN

Approximate Wetland Resource Area Impacts

Bordering getated Wetland		Inland Bank		Land Un	der Water	Wetland/Hyd	Local Freshwater /etland/Hydric Soil (Local Protection Only) 0 to 100-foot Riverfront Area Riverfront		land/Hydric Soil (Local Biverfront Area Biv			
P (sf)	T (sf)	P (lf)	T (lf)	P (sf)	T (sf)	P (sf)	T (sf)	P (sf)	T (sf)	P (sf)	T (sf)	
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3,125	275	193	0	579	0	0	0	0	0	0	0	
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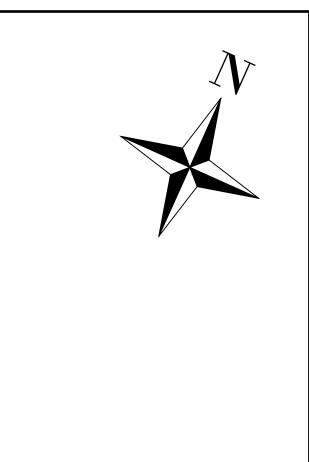




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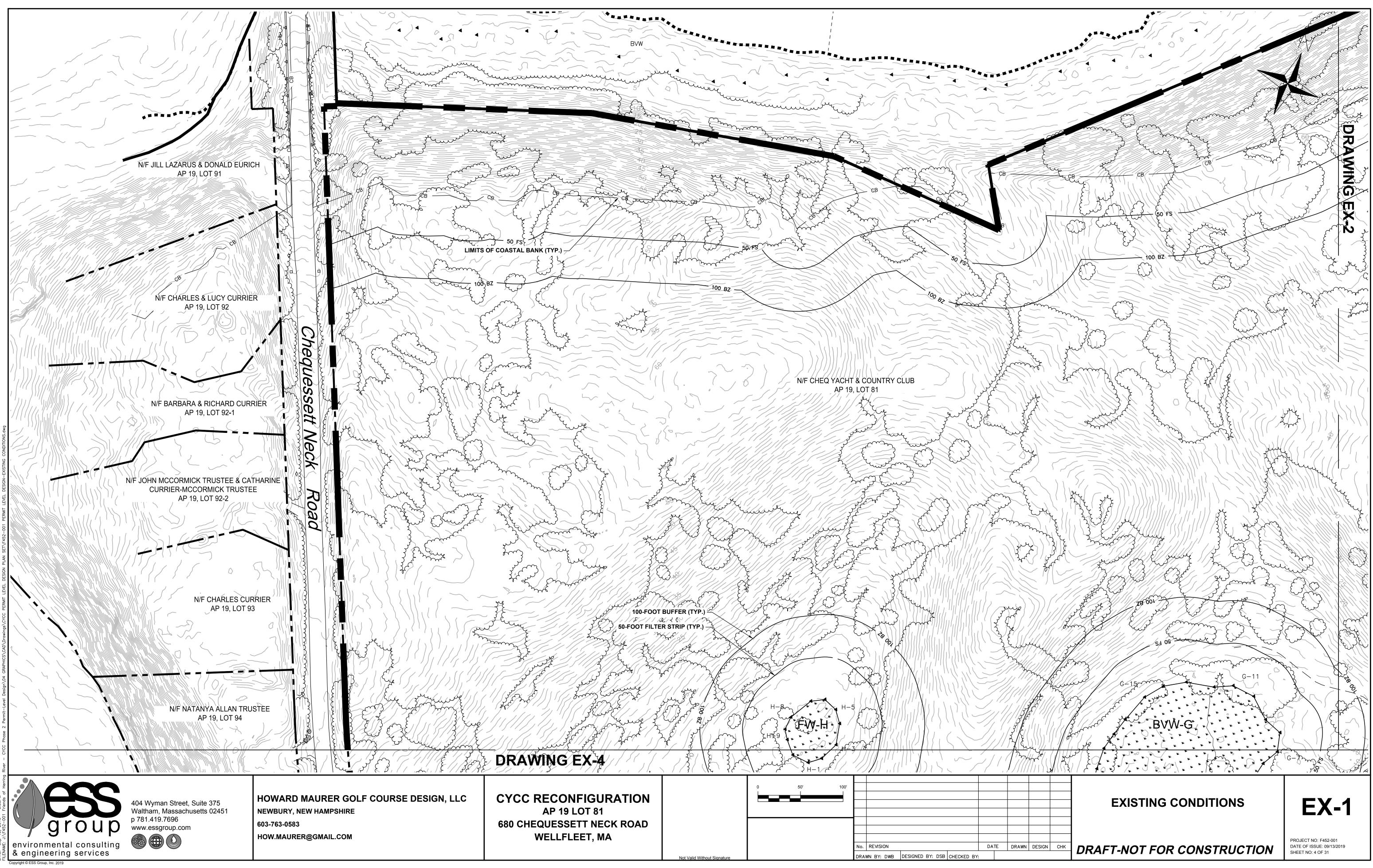
603-763-0583 HOW.MAURER@GMAIL.COM

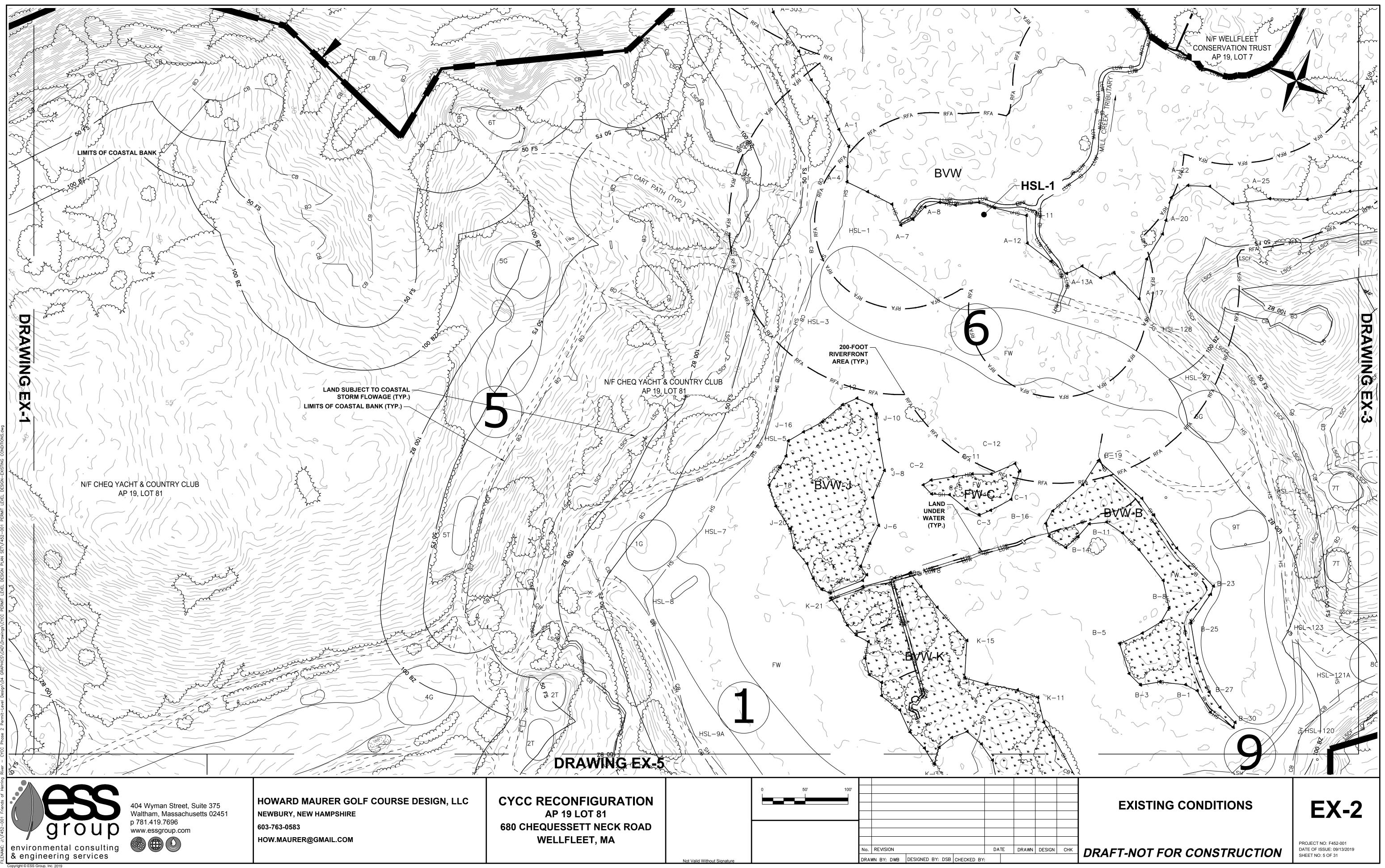
680 CHEQUESSETT NECK ROAD WELLFLEET, MA DATE DRAWN DESIGN CHK No. REVISION **DRAFT-NOT FOR CONSTRUCTION** DRAWN BY: DWB DESIGNED BY: DSB CHECKED BY:

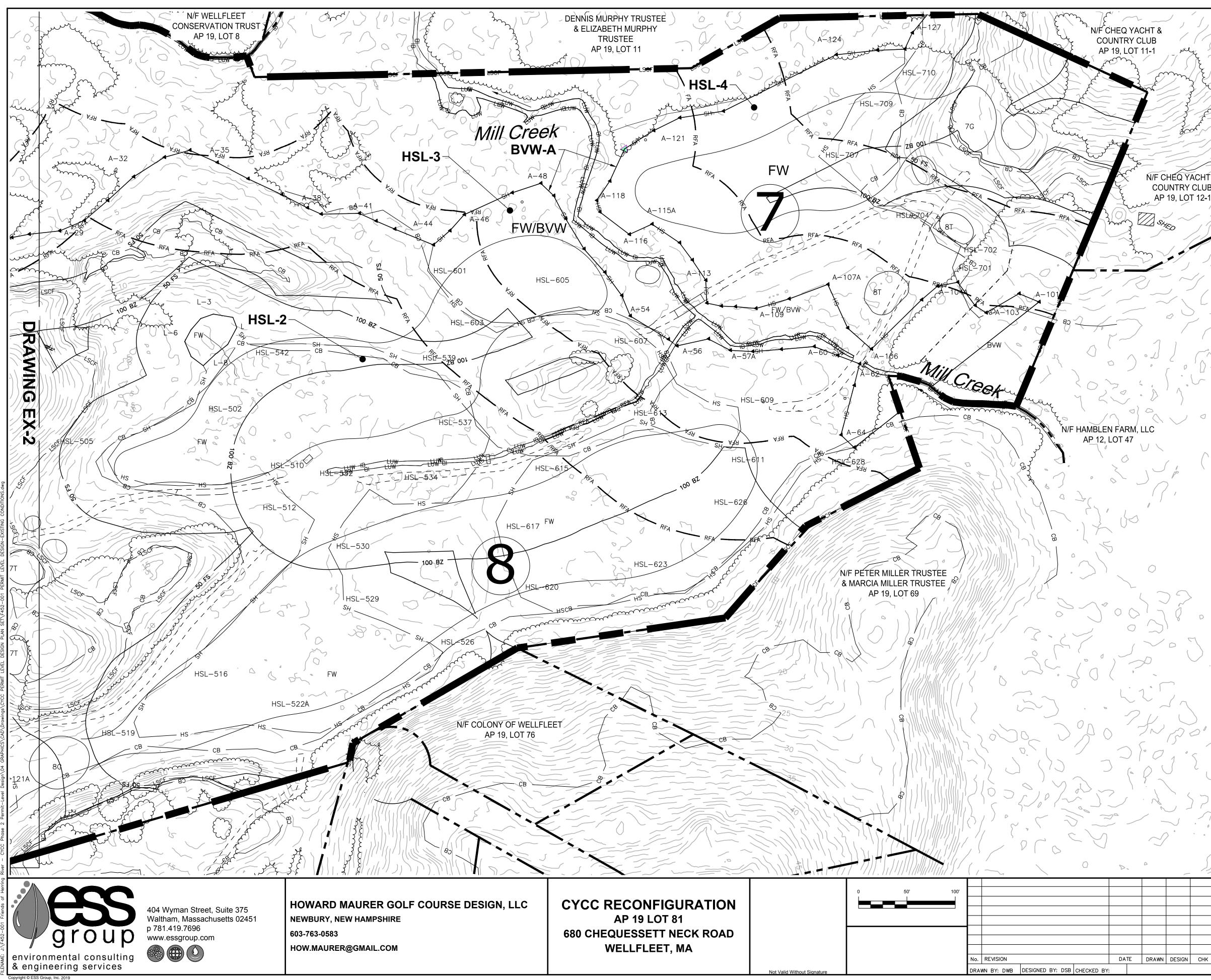




PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 3 OF 31

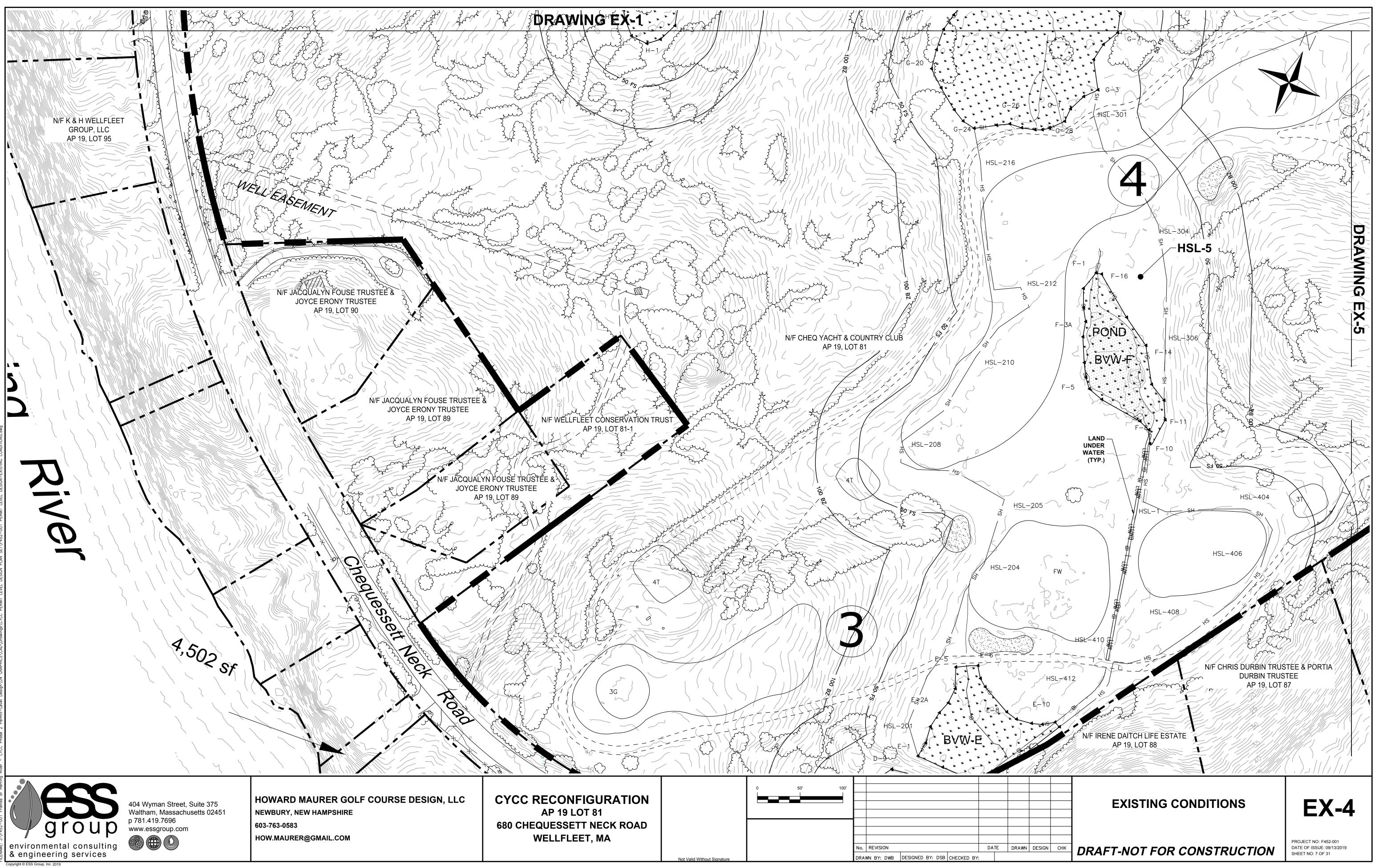




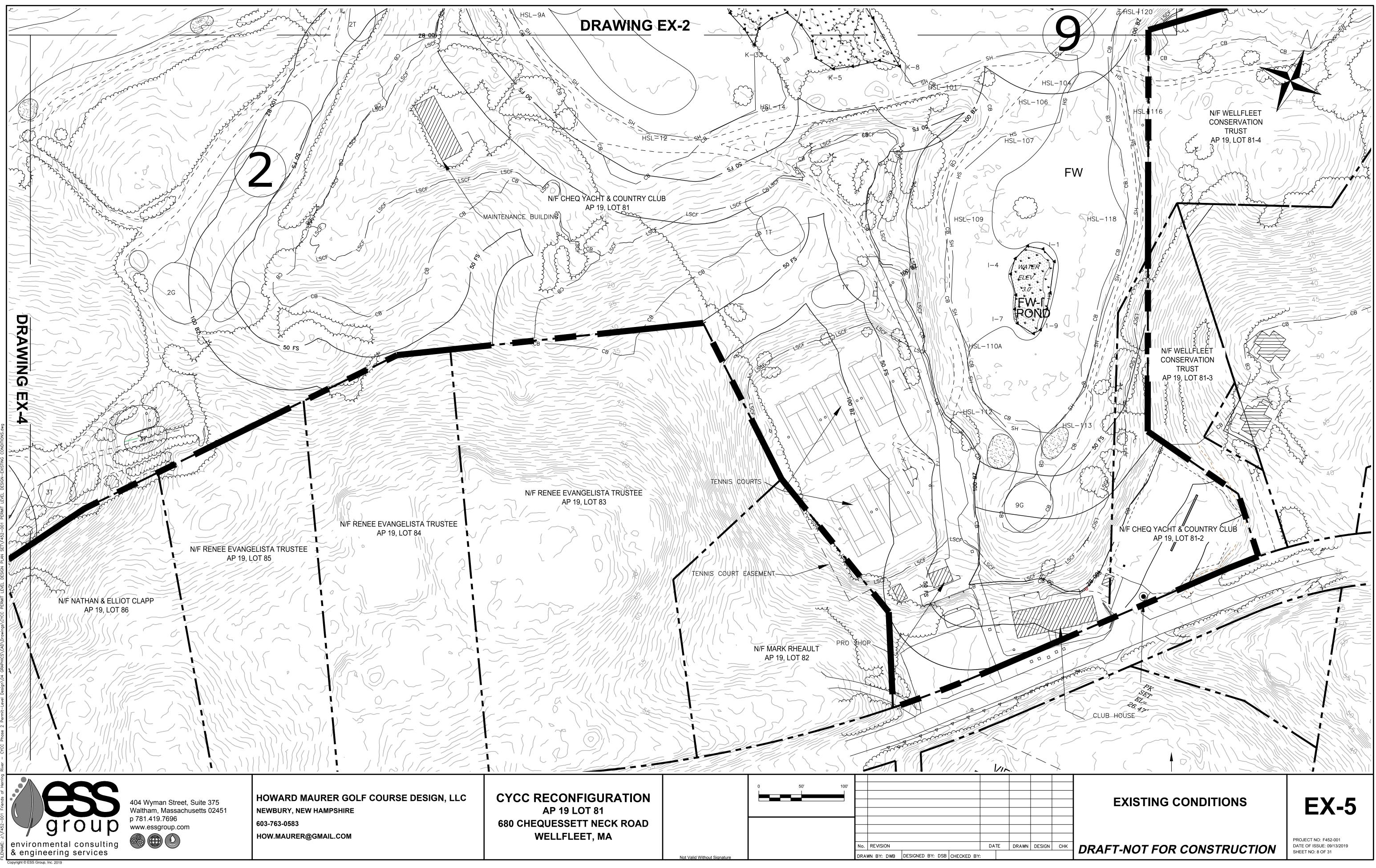


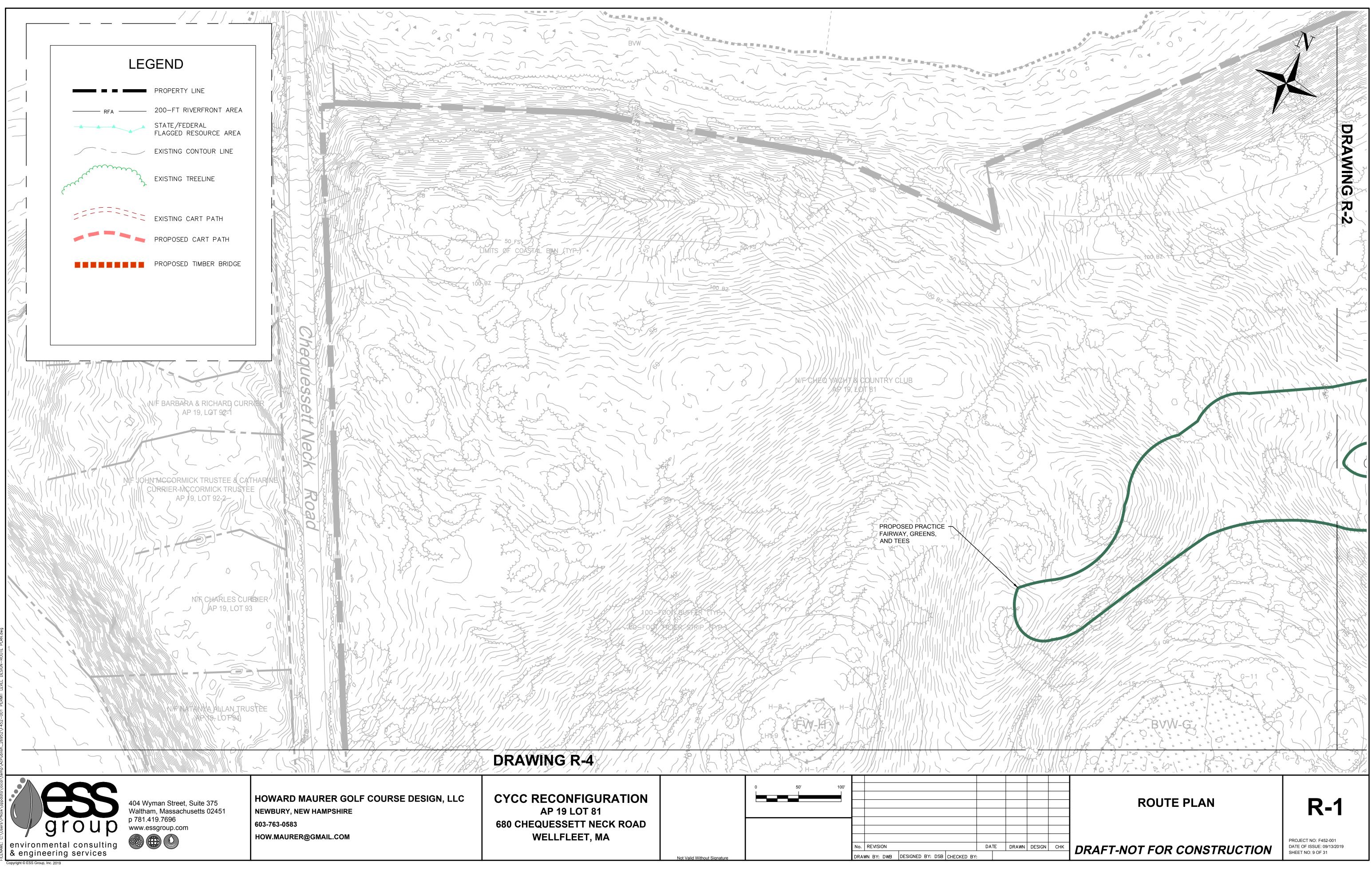
DATE: Sep 13, 2019 – 5:38PM FILENAME: J.): F452-001 Friends of Herring River – CYCC Phase 2 Permit-Level Design\04 GRAPHICS\CAN\Drawings\CYCC PFBMIT LEVEL DFSIGN PLAN SET\F452-001 P.

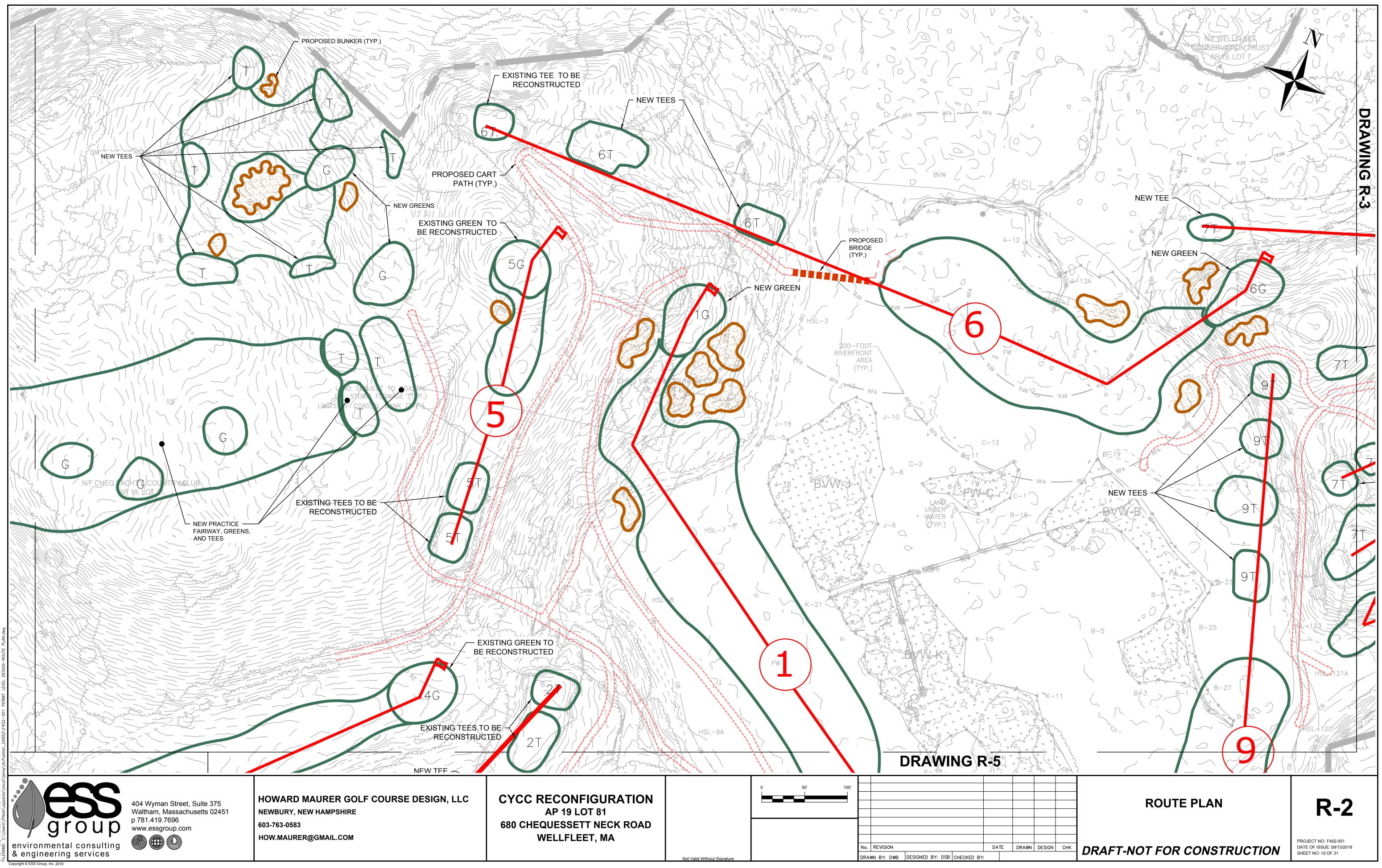
N/F SUEKO HALL AP 19, LOT 12 N/F CHEQ YACHT & COUNTRY CLUB AP 19, LOT 12-1 0 0 **EX-3 EXISTING CONDITIONS** PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 6 OF 31 **DRAFT-NOT FOR CONSTRUCTION**



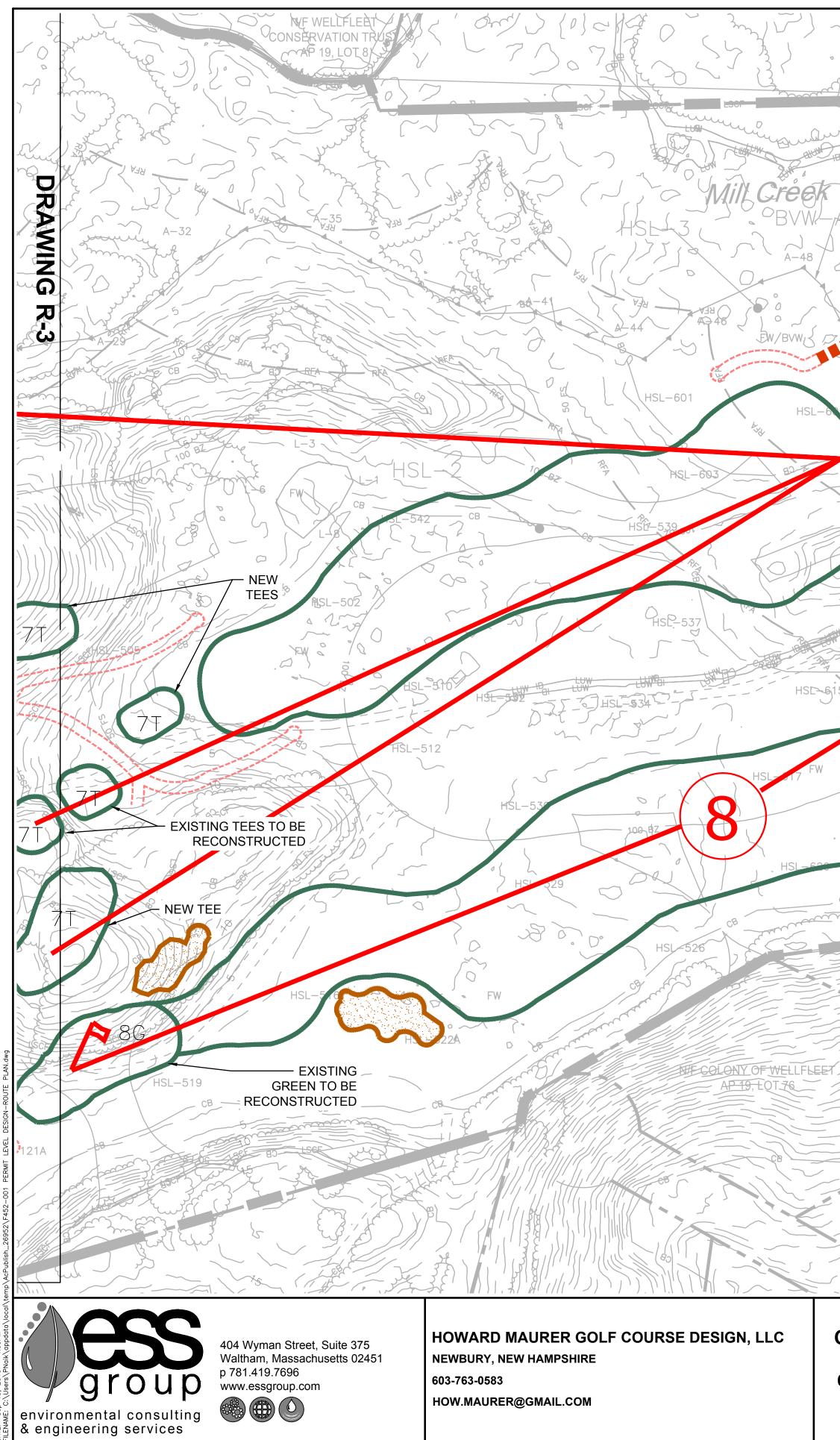
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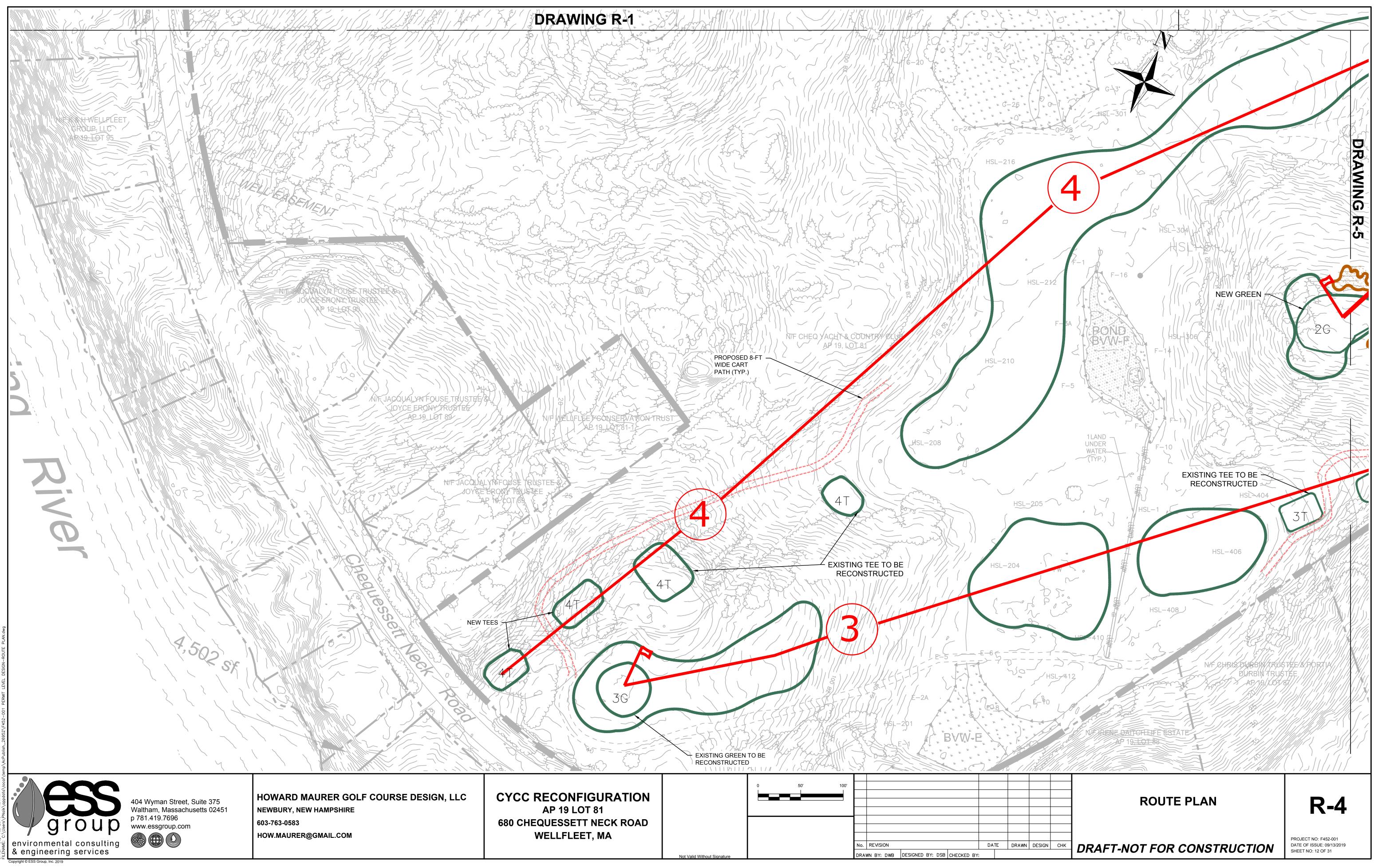
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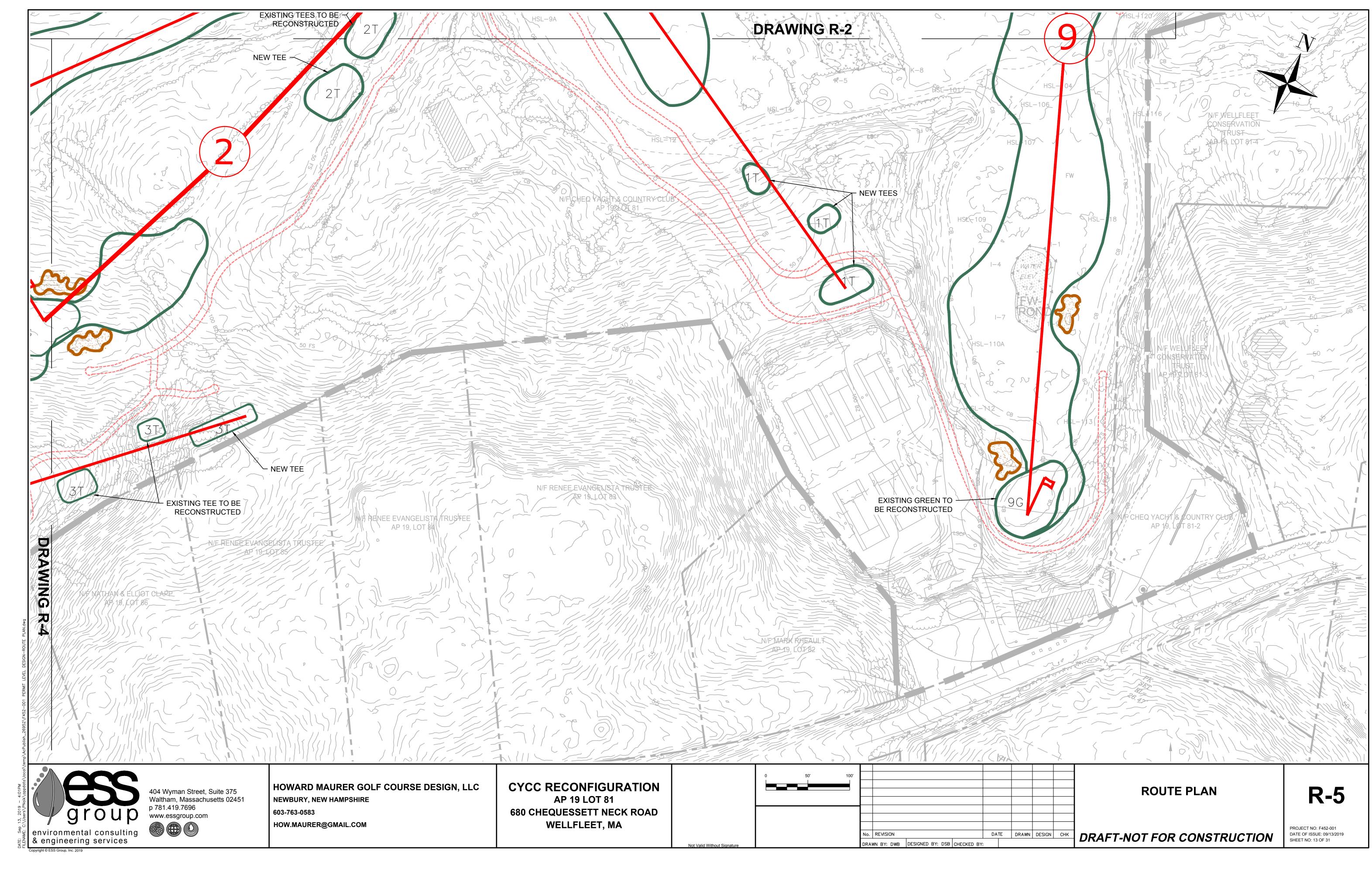
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0 0 **R-3 ROUTE PLAN** PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 11 OF 31 N DESIGN CHK DRAFT-NOT FOR CONSTRUCTION





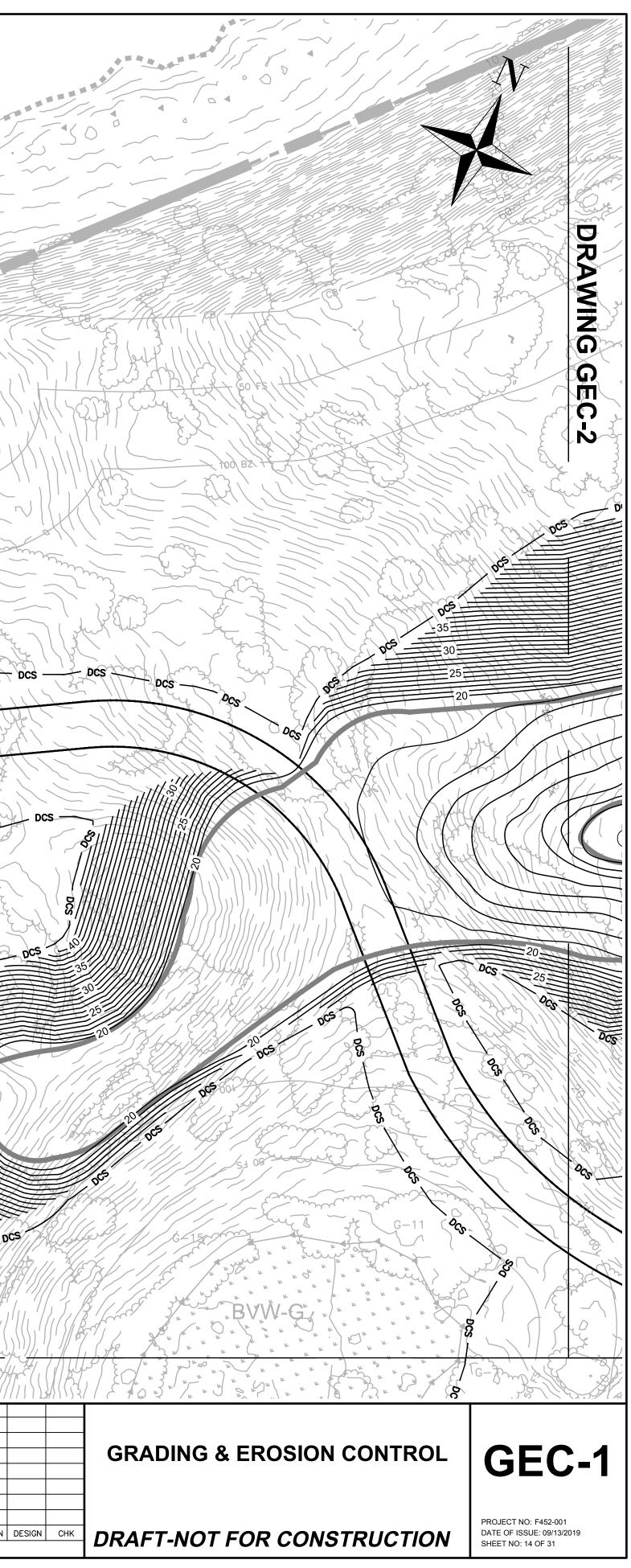


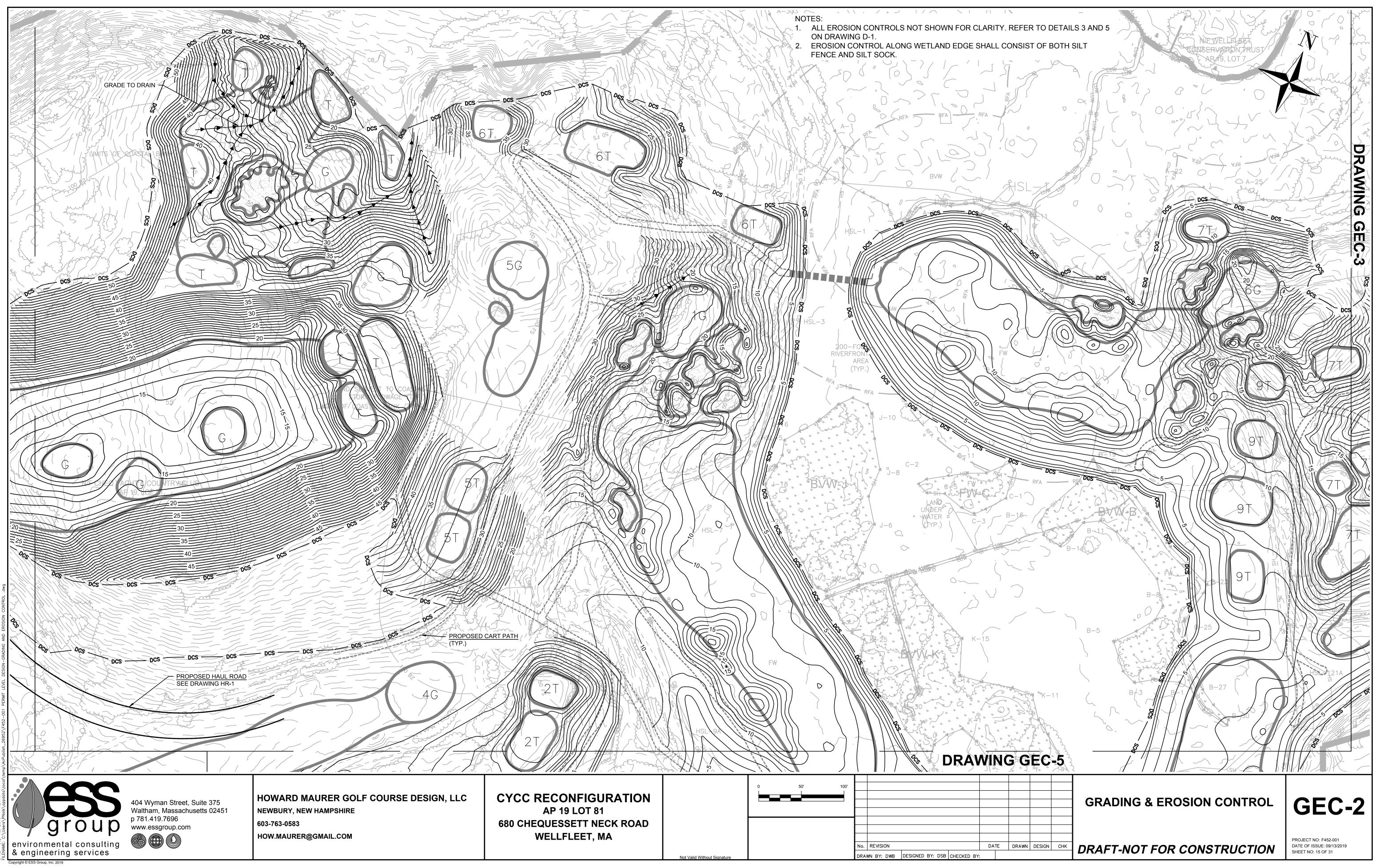


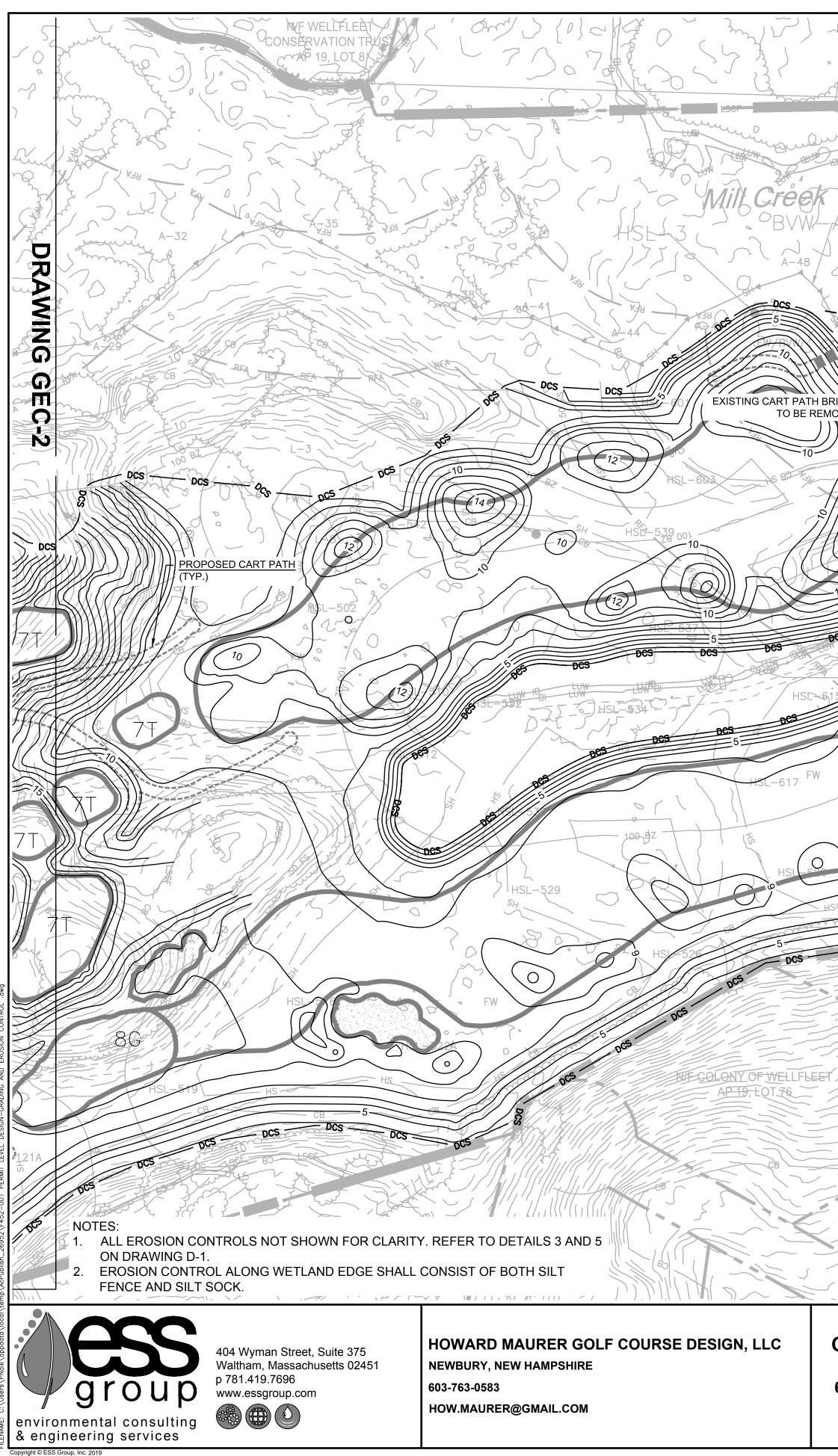


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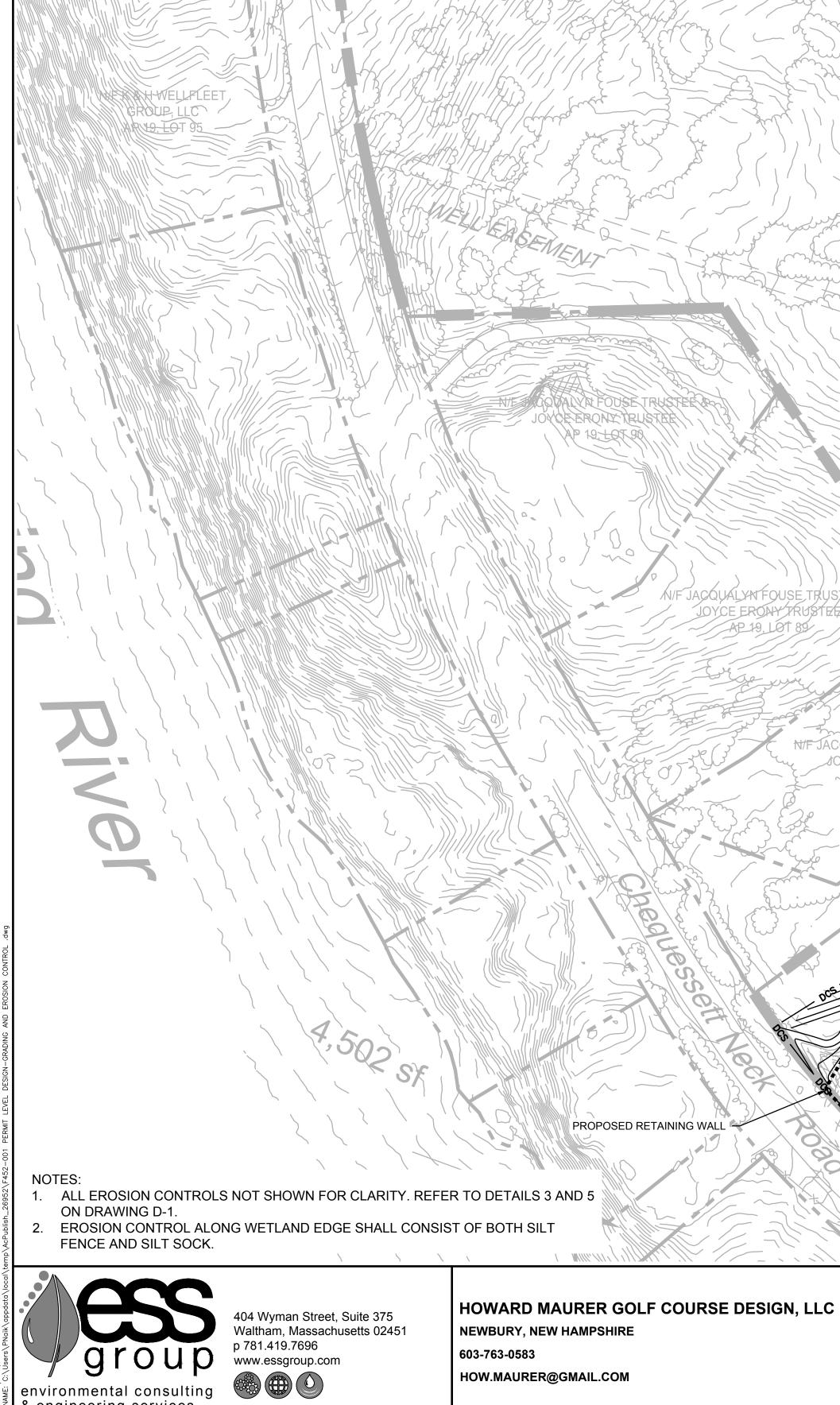






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0 0 GEC-3 **GRADING & EROSION CONTROL** PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 16 OF 31 N DESIGN CHK DRAFT-NOT FOR CONSTRUCTION



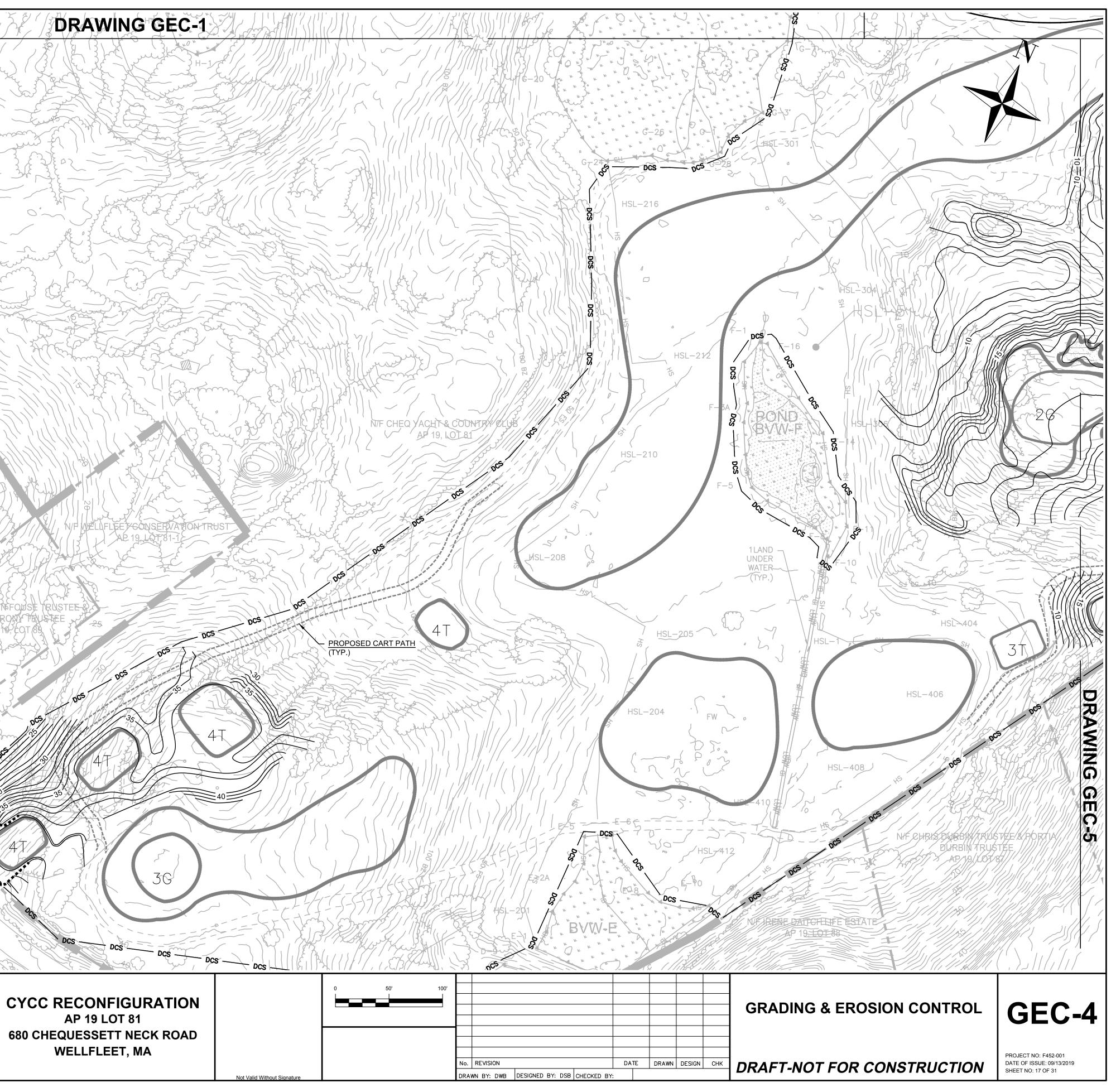
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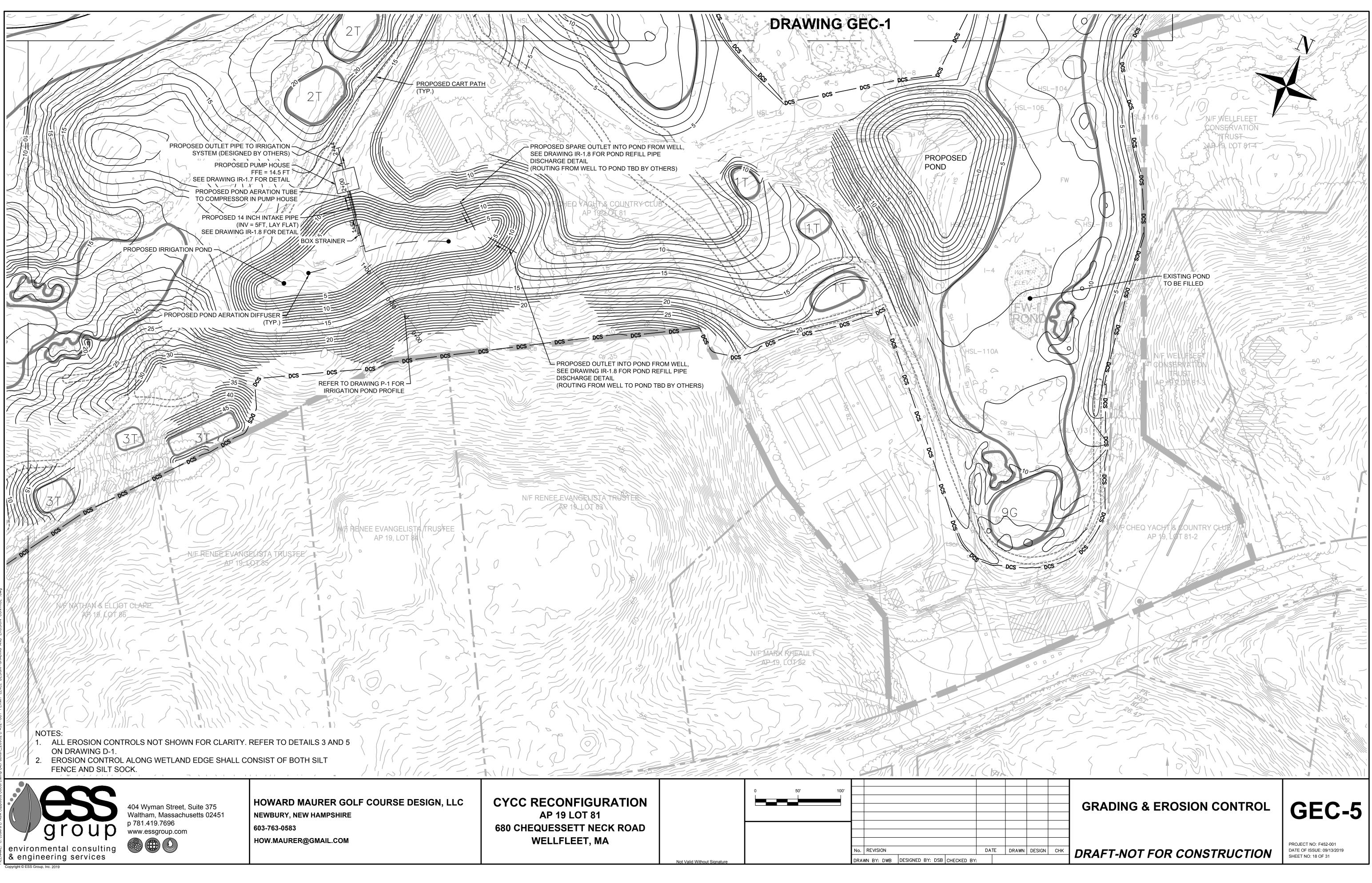
environmental consulting

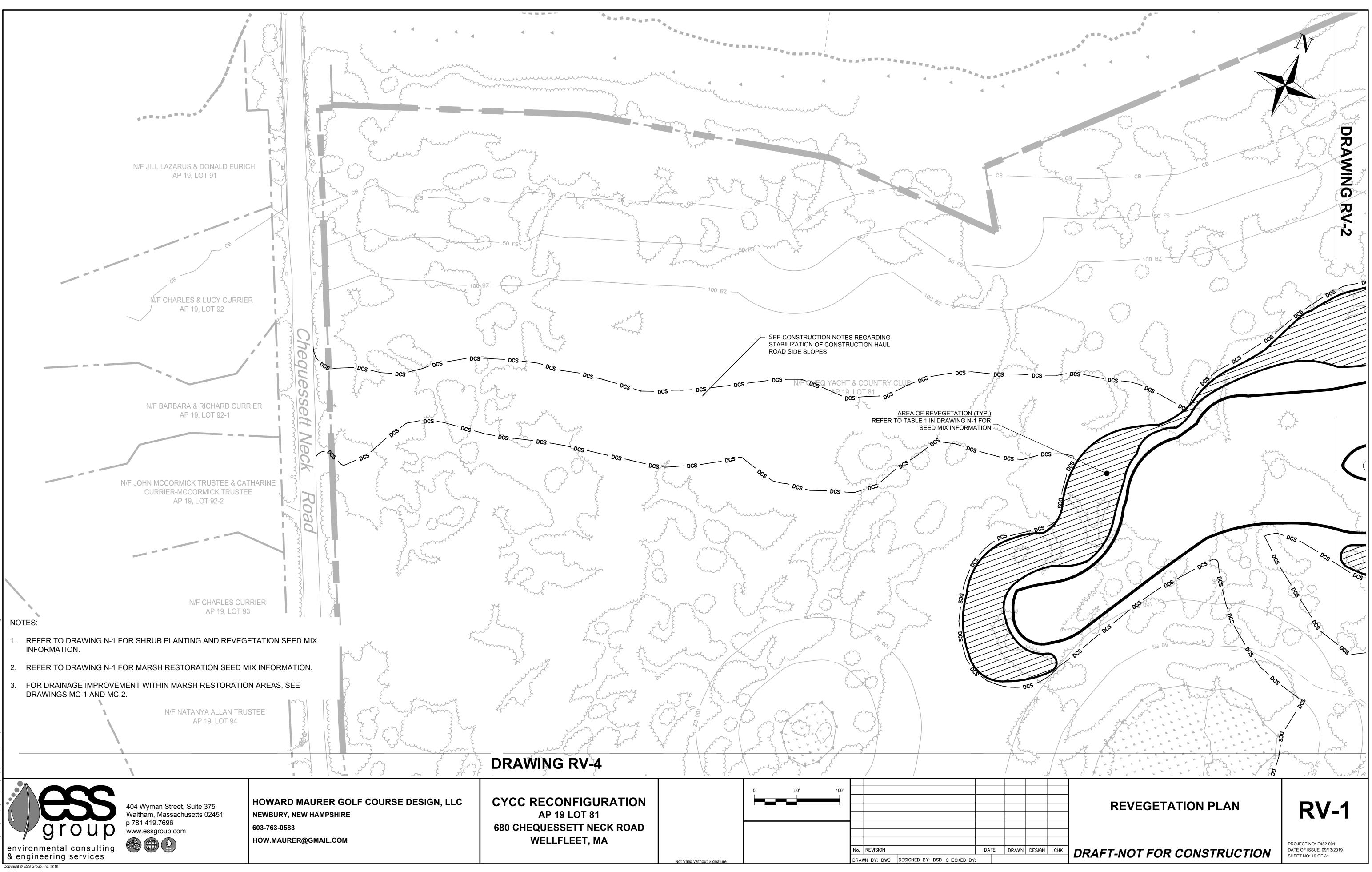
& engineering services

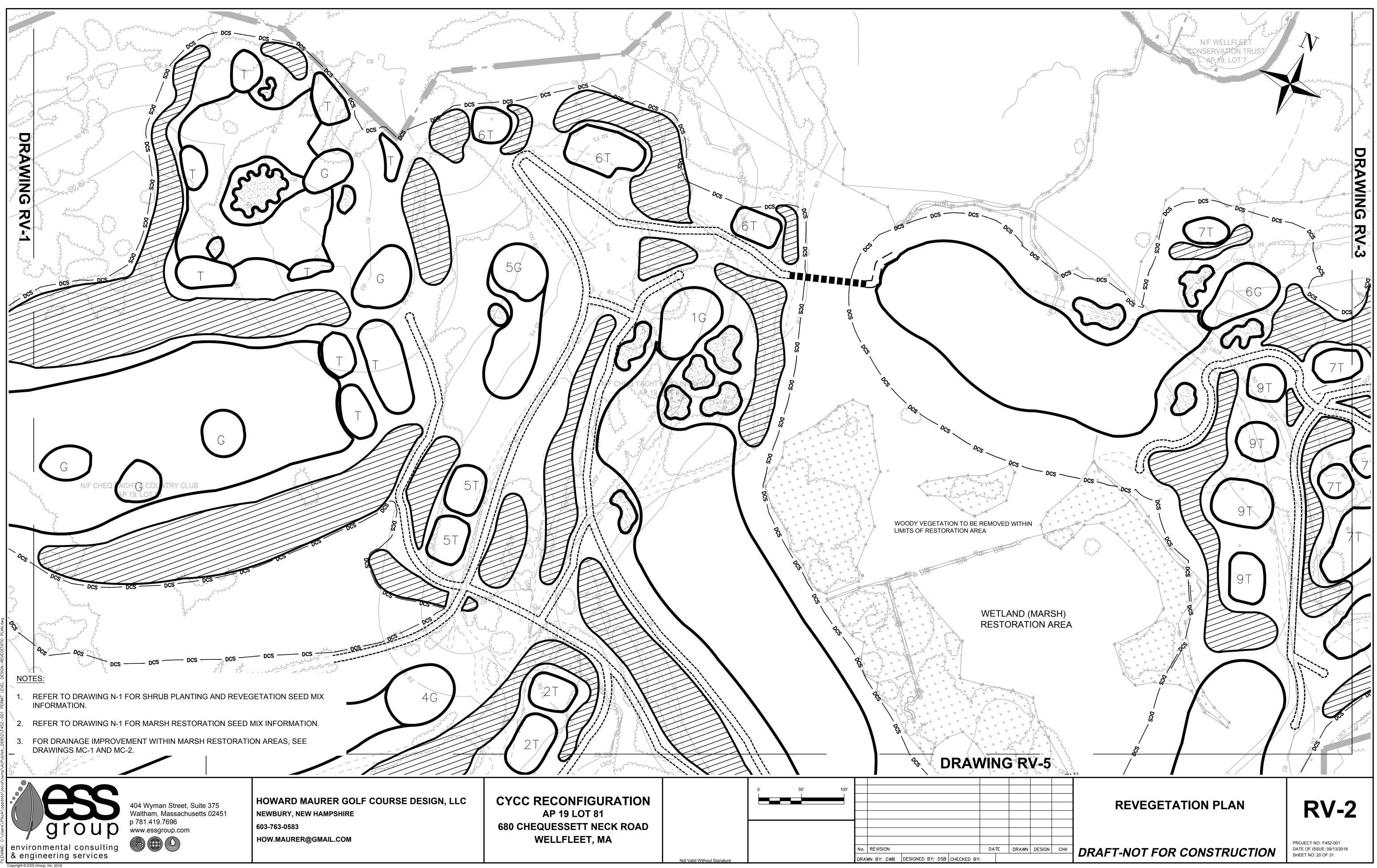
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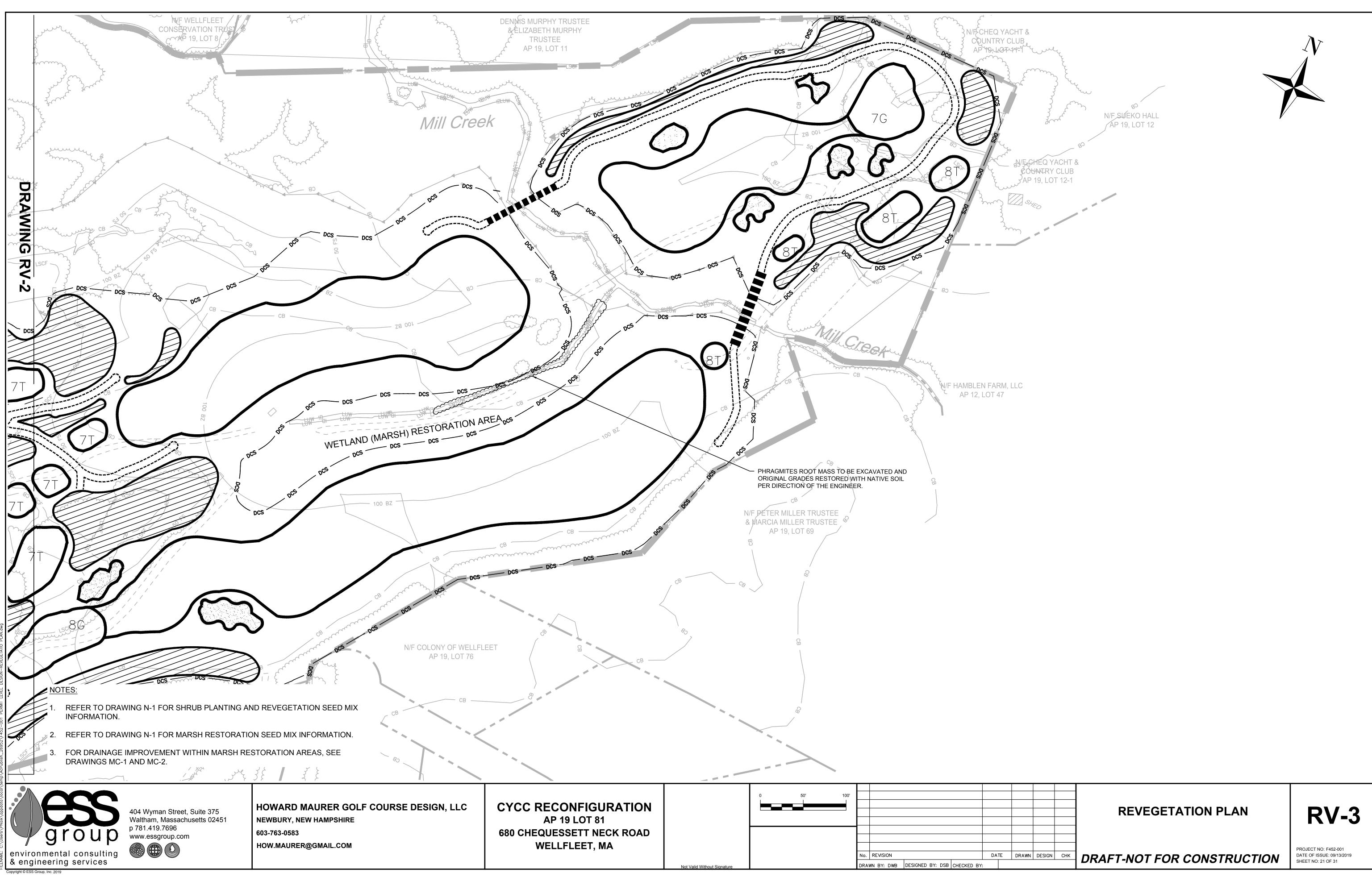
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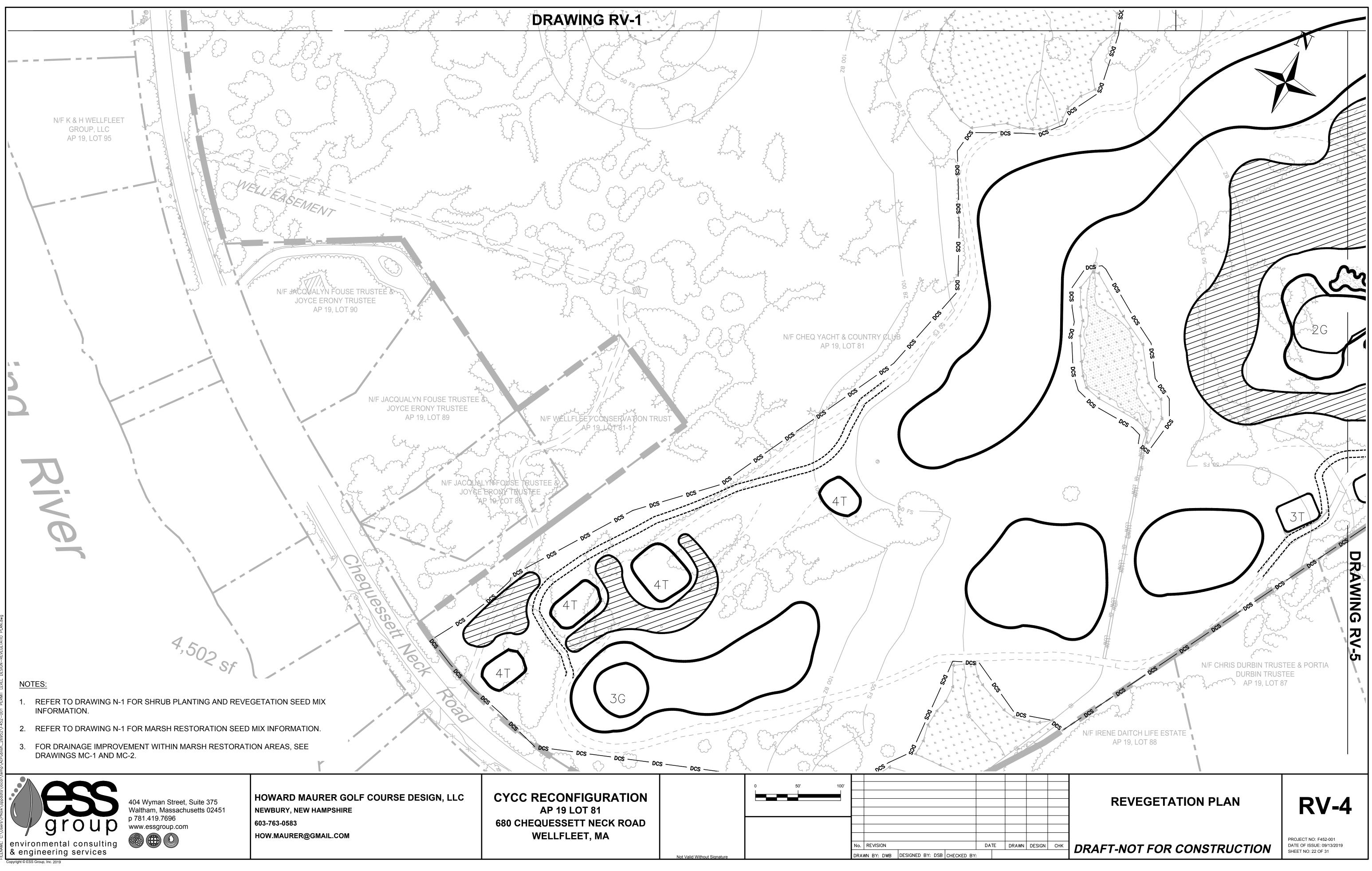


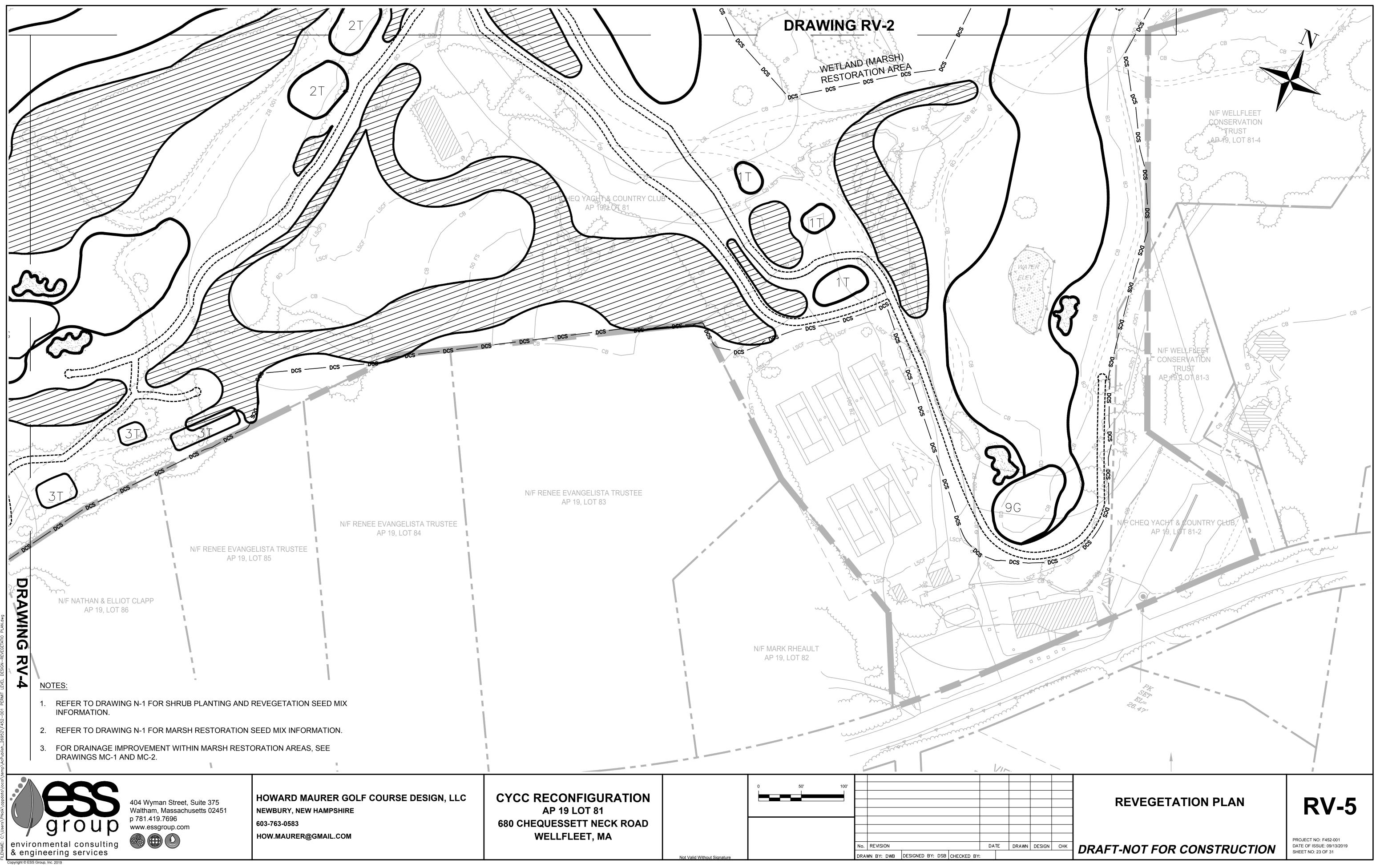


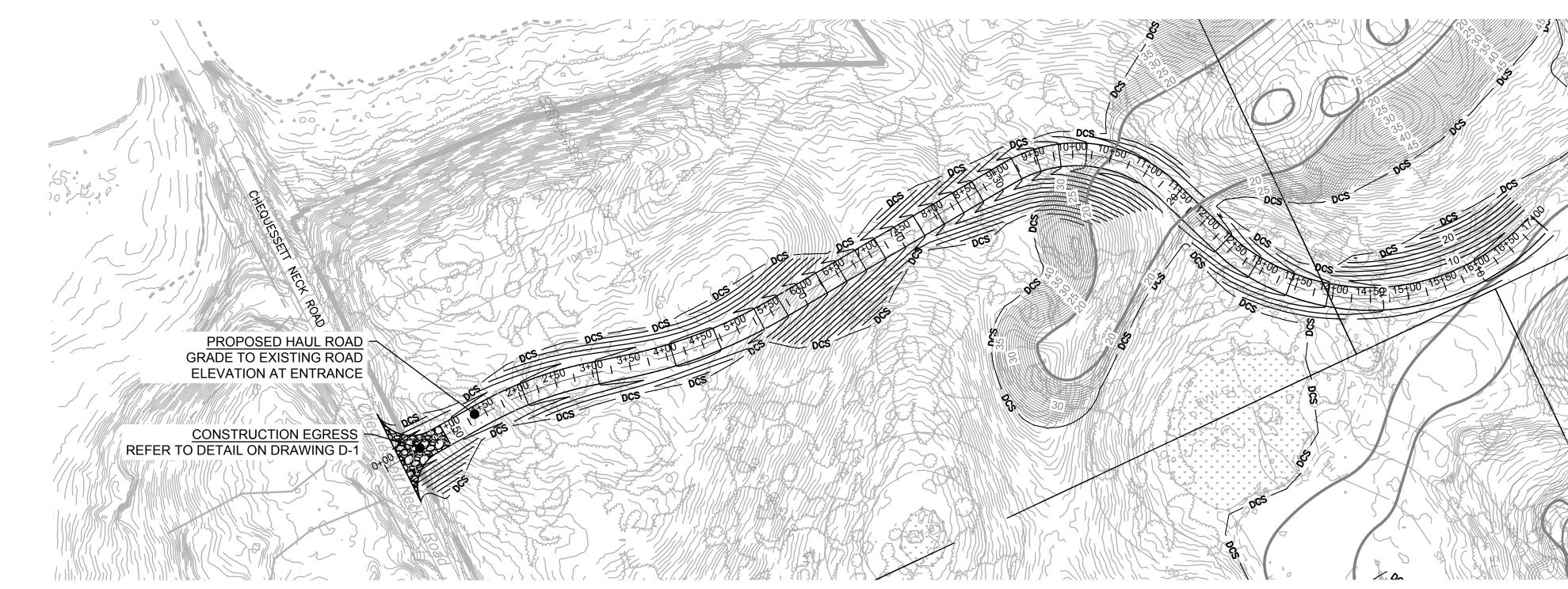


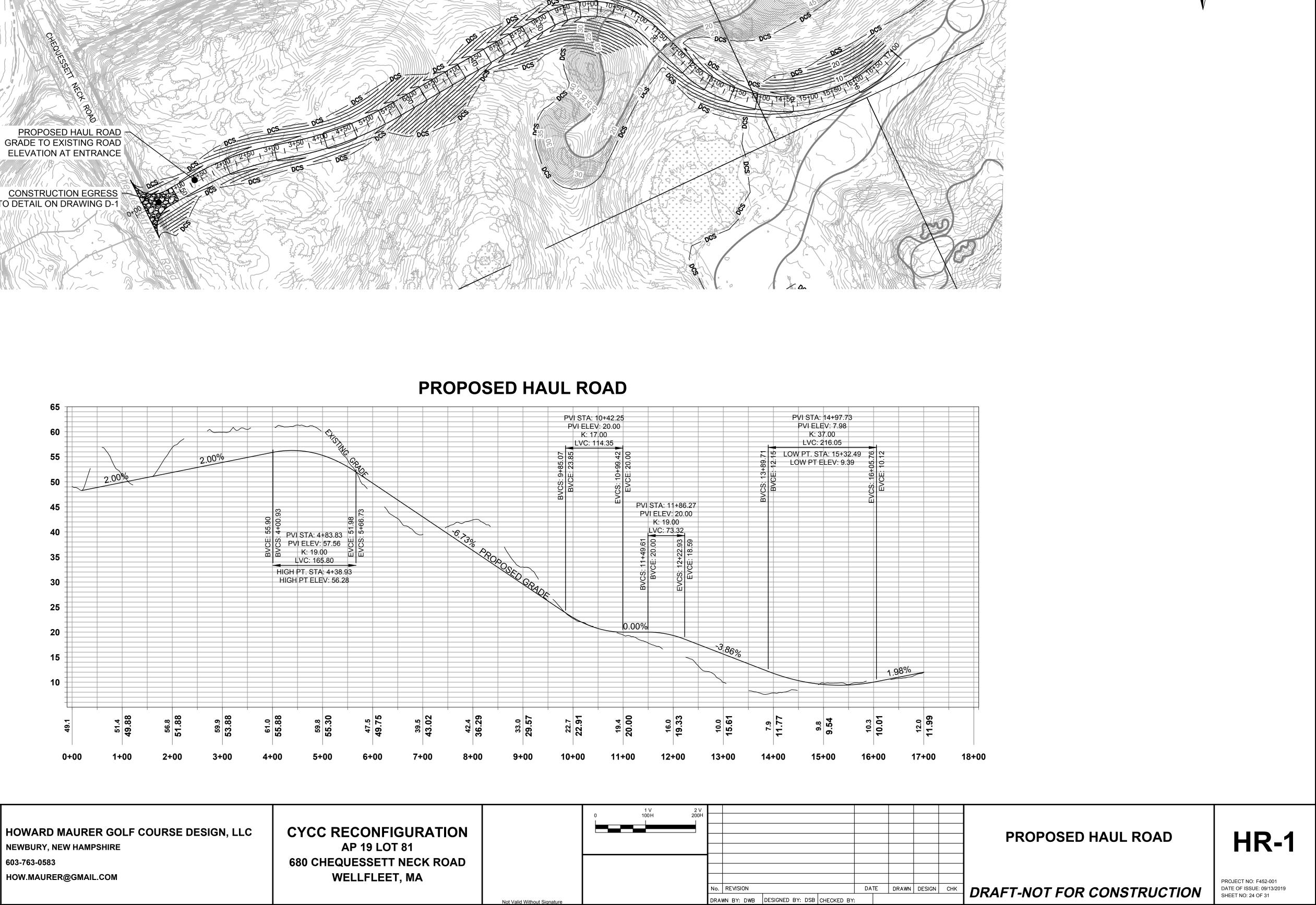


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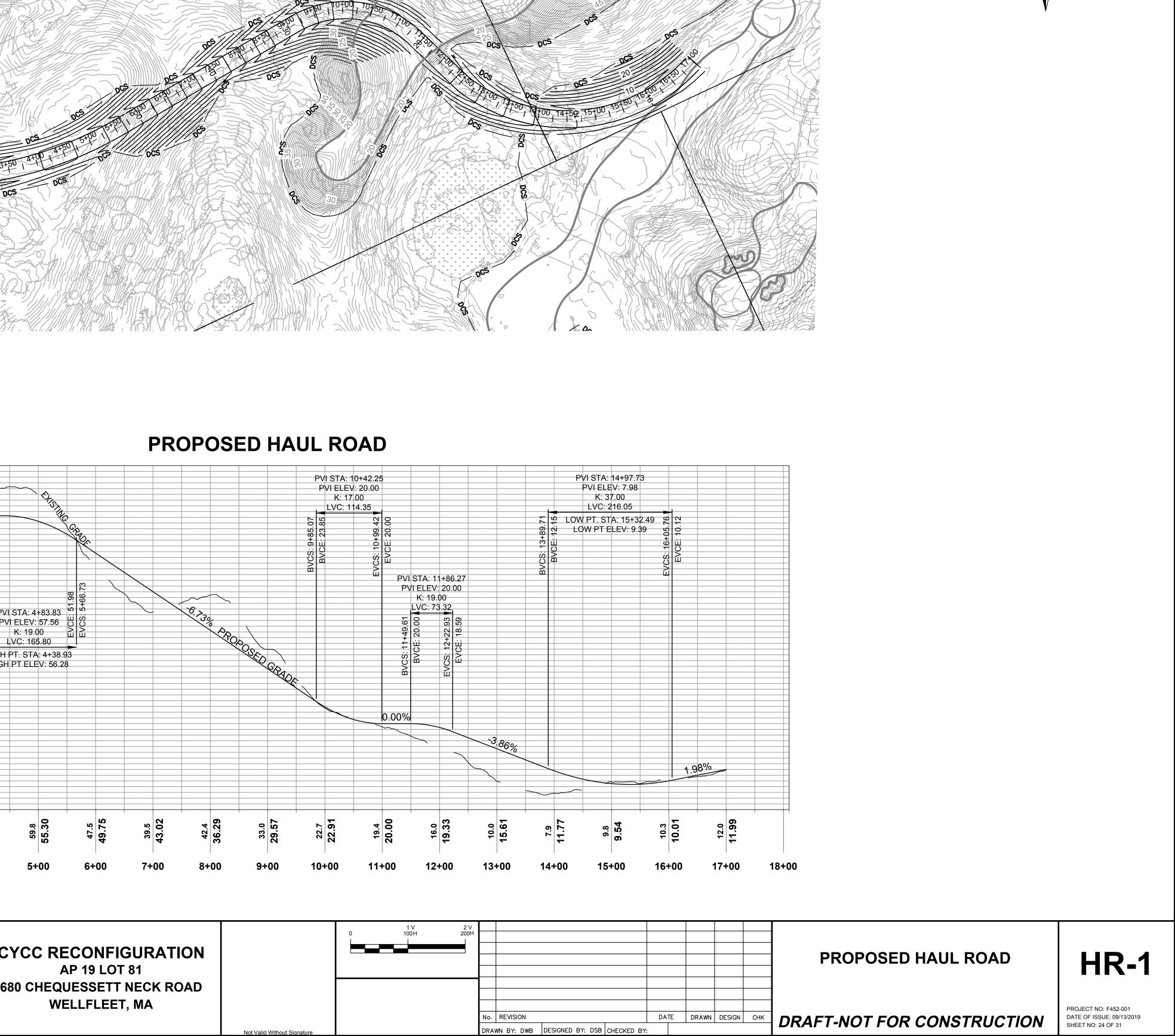
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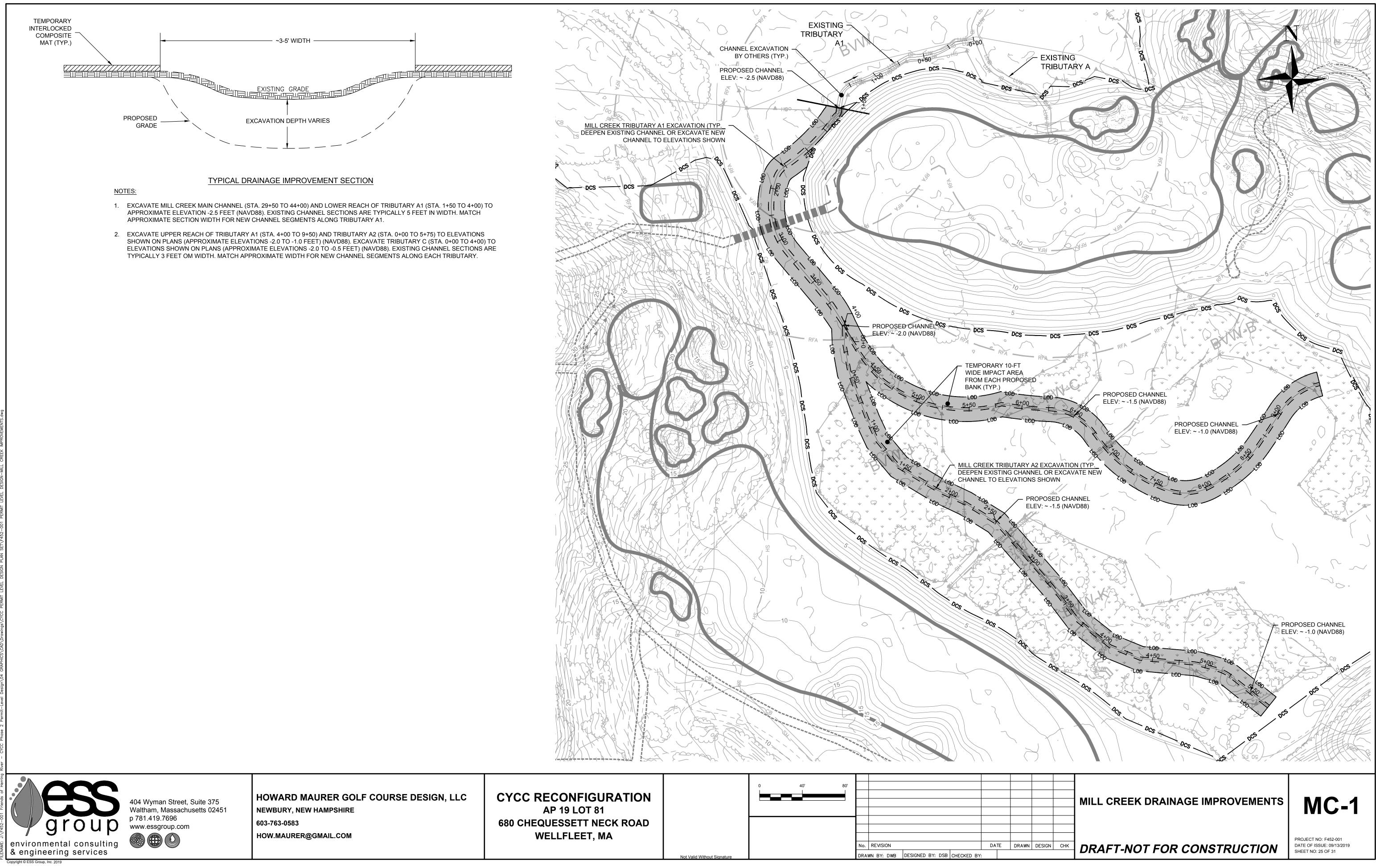
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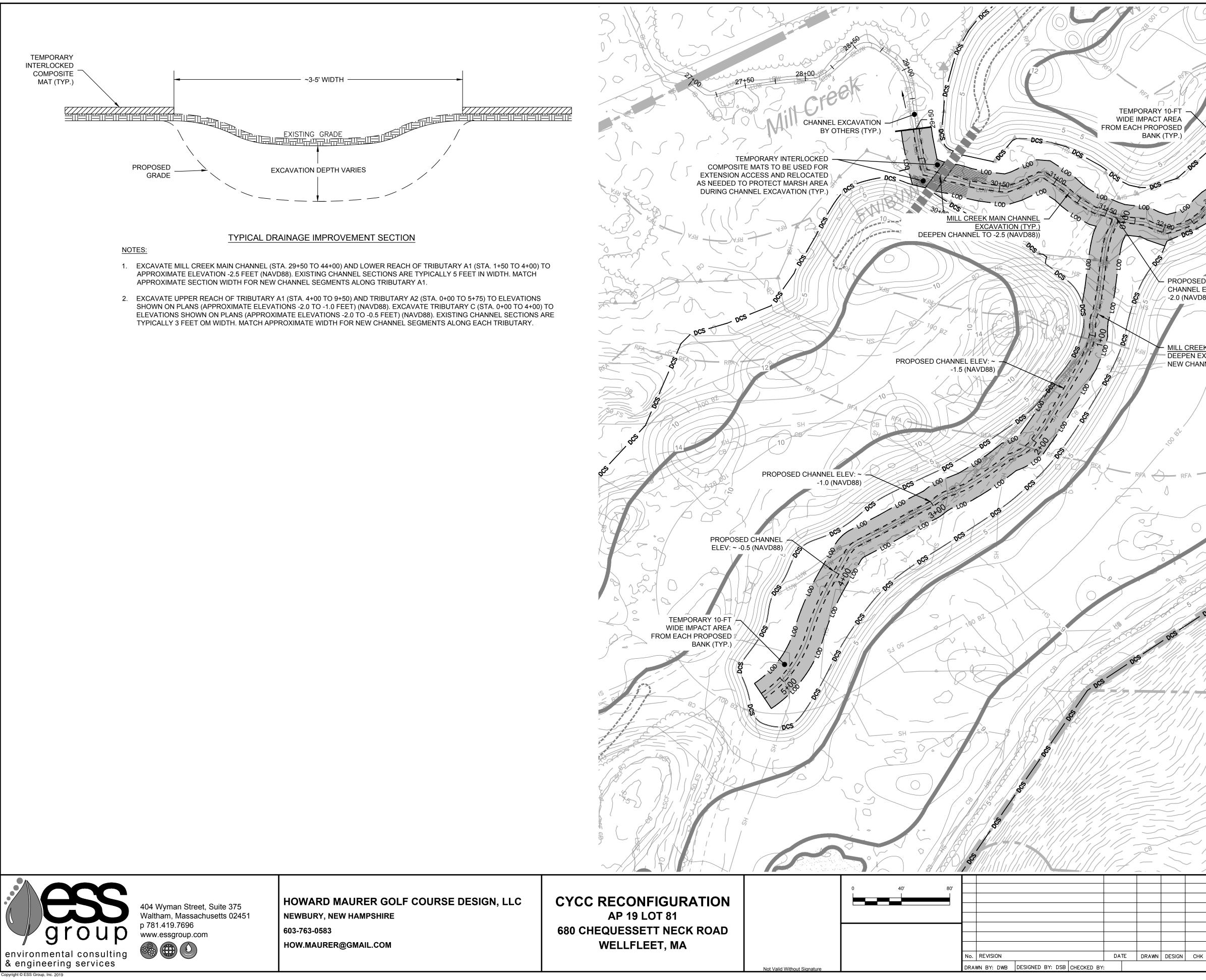
HOWARD MAURER GOLF COURSE DESIGN, LLC

NEWBURY, NEW HAMPSHIRE 603-763-0583





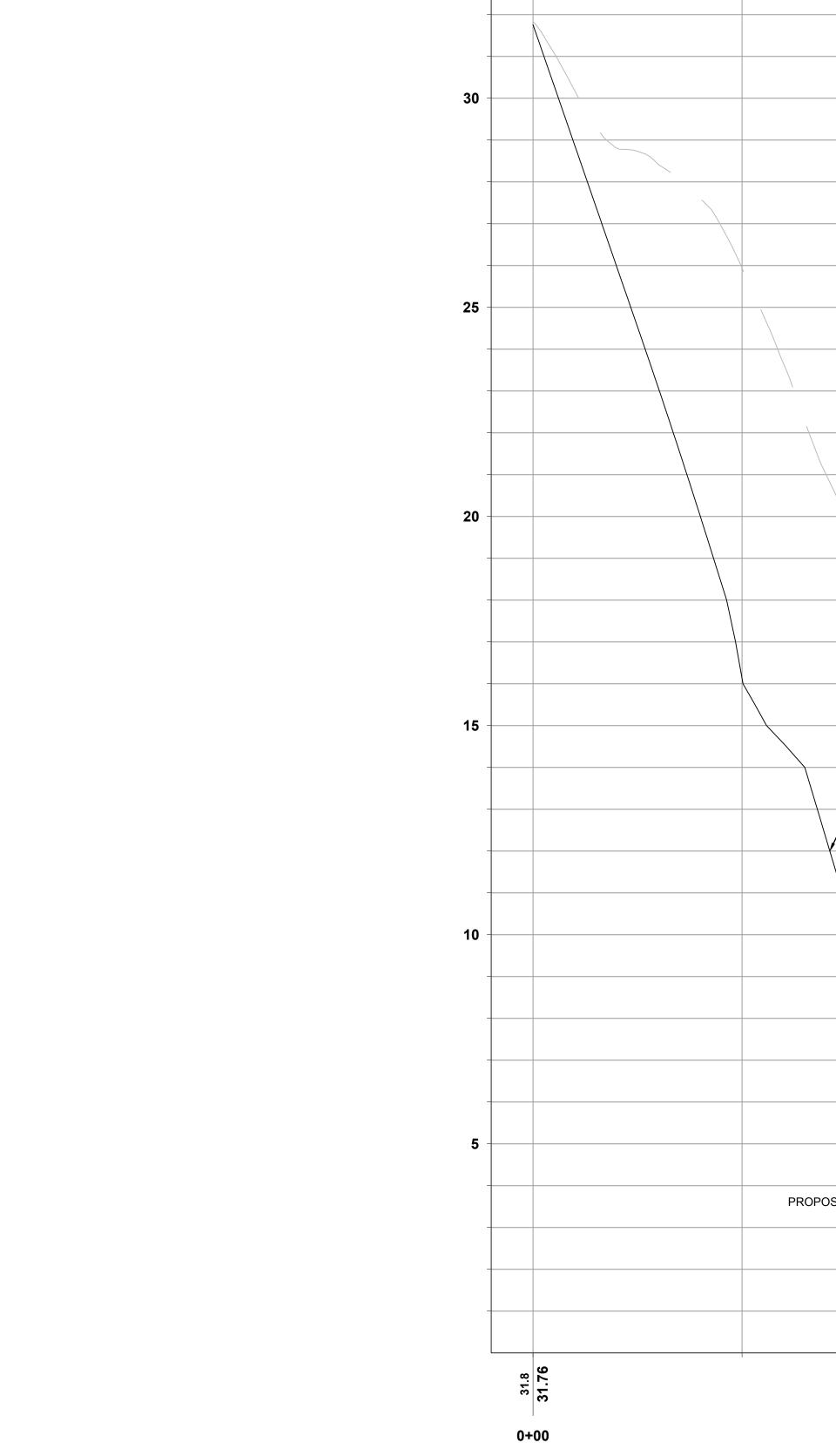
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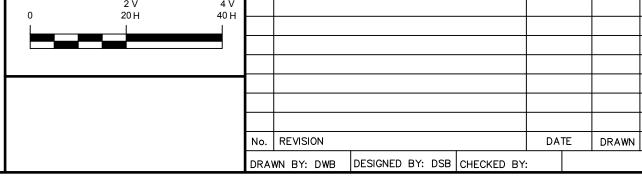
- UPSTREAM LIMIT OF VIII CIECO PROPOSED CHANNEL ELEV: ~ -2.0 (NAVD88) MILL CREEK CHANNEL EXTENSION C (TYP.) DEEPEN EXISTING CHANNEL OR EXCAVATE NEW CHANNEL TO ELEVATIONS SHOWN MC-2 MILL CREEK DRAINAGE IMPROVEMENTS PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 26 OF 31 **DRAFT-NOT FOR CONSTRUCTION**

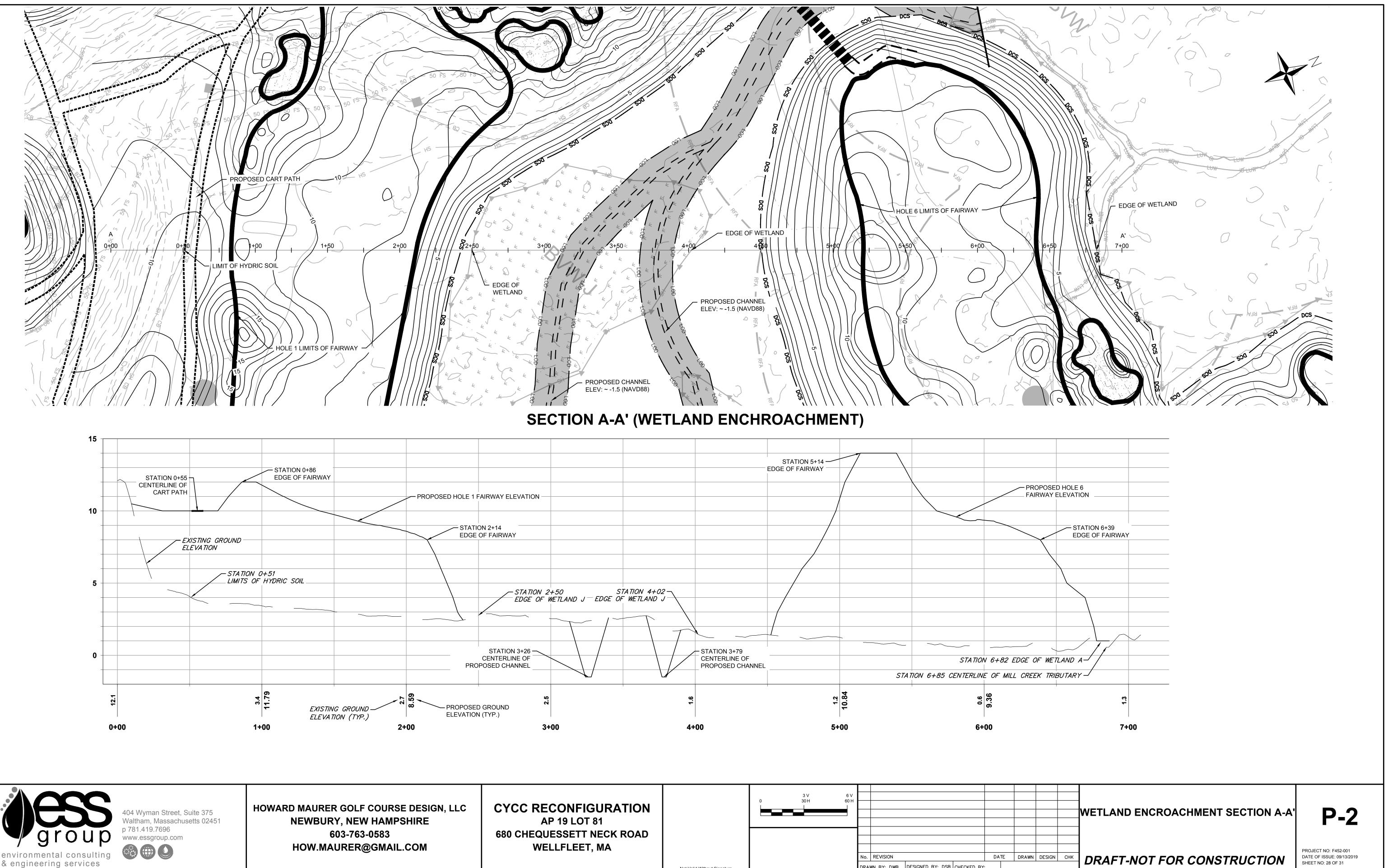




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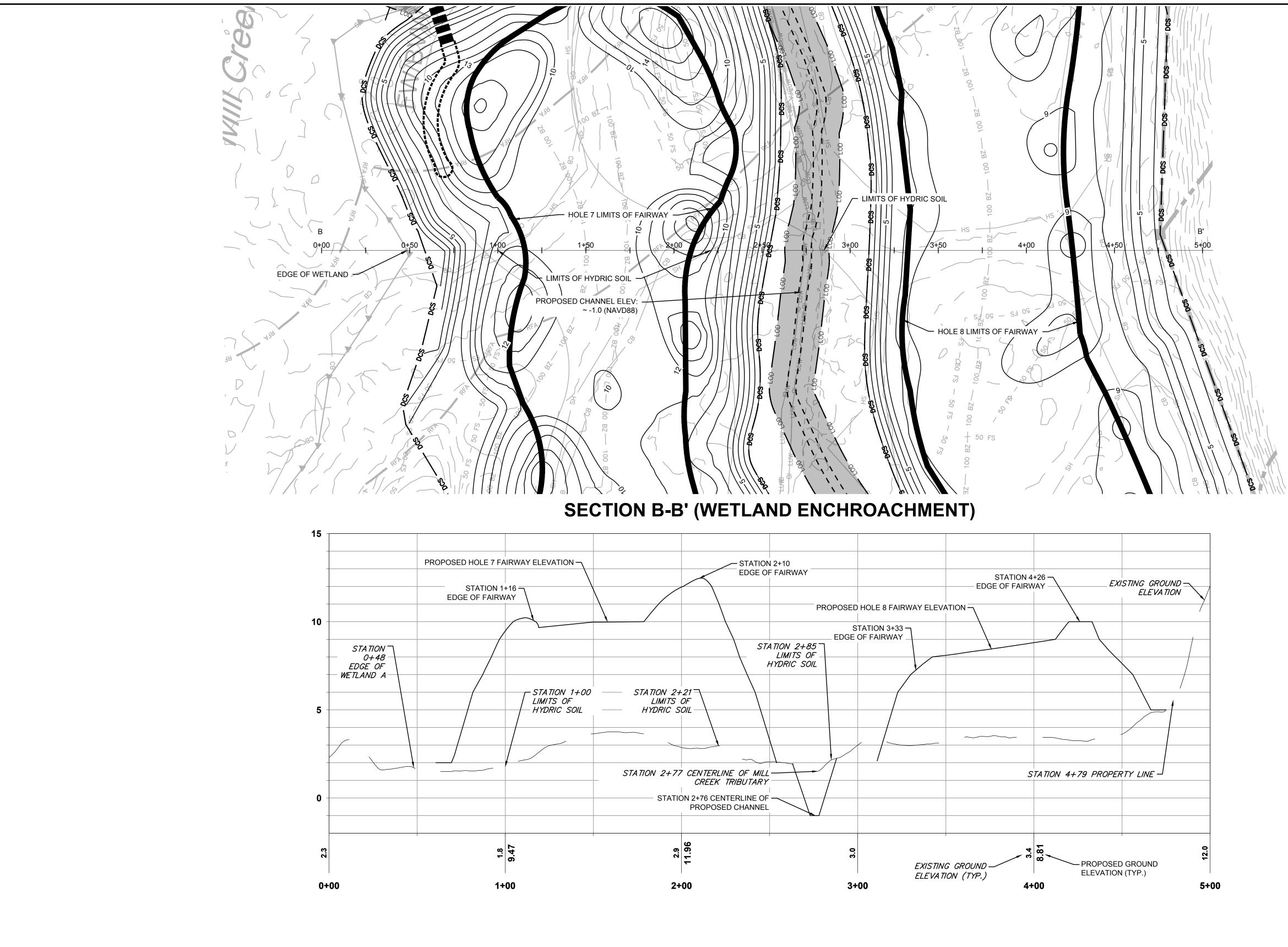
EXISTING GROUND					
PROPOSED PUMP HOUSE FLOOR					
10 FT	PROPOSED WET WELL				
ROPOSED POND BOTTOM ELEVATION = 4 FT PROPOSED INTAKE / FLUME PIPE FROM POND SEE DRAWING IR-1.8 EXISTING GROUND ELEVATION (TYP.)					
1+00 2+00	D	3+)0		
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CYCC RECONFIGURATION AP 19 LOT 81		0	3 V 30 H	6 V 60 H						
680 CHEQUESSETT NECK ROAD					<u> </u>					
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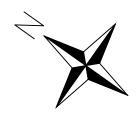


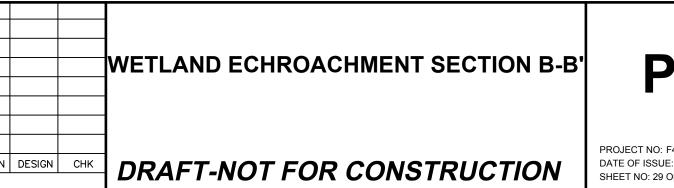


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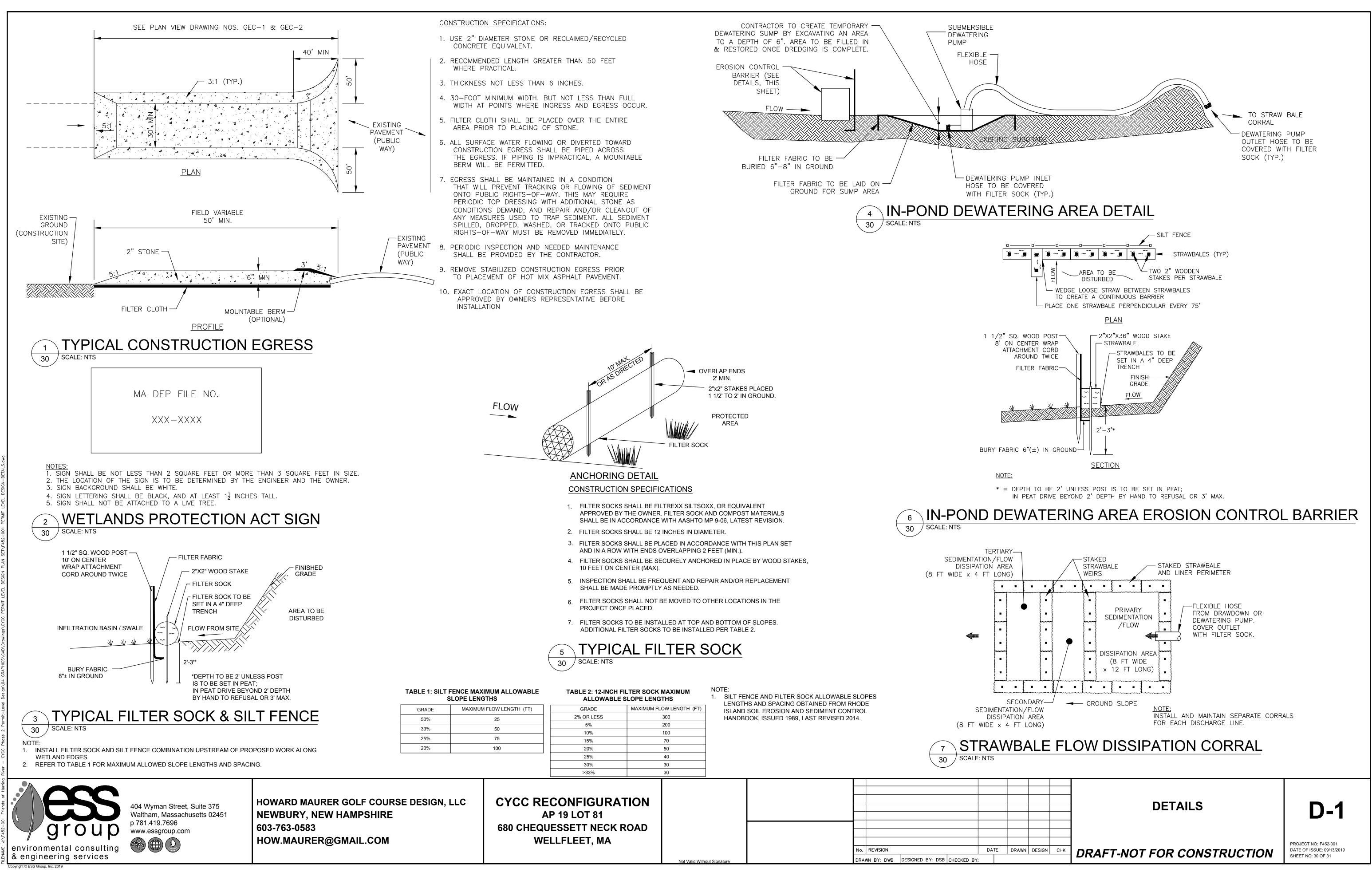
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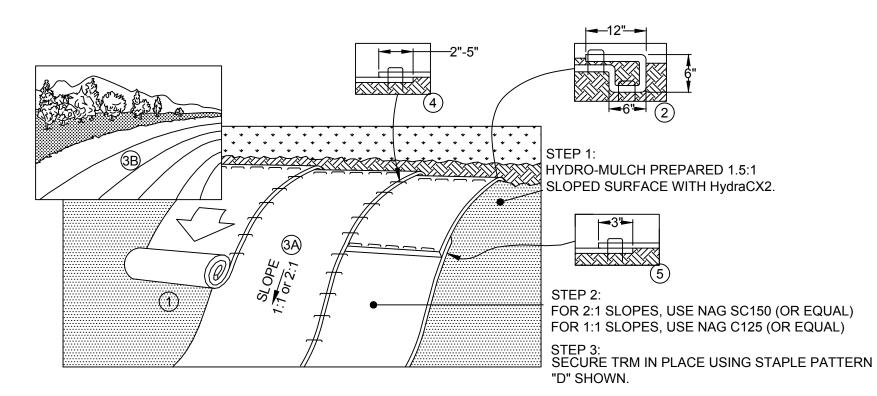






PROJECT NO: F452-001 DATE OF ISSUE: 09/13/2019 SHEET NO: 29 OF 31



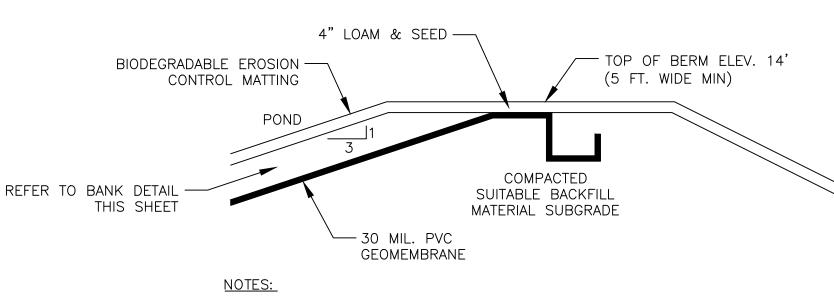


- 1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM [™], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH [™] ON THE PREVIOUSLY INSTALLED BLANKET.
- 5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:

*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.





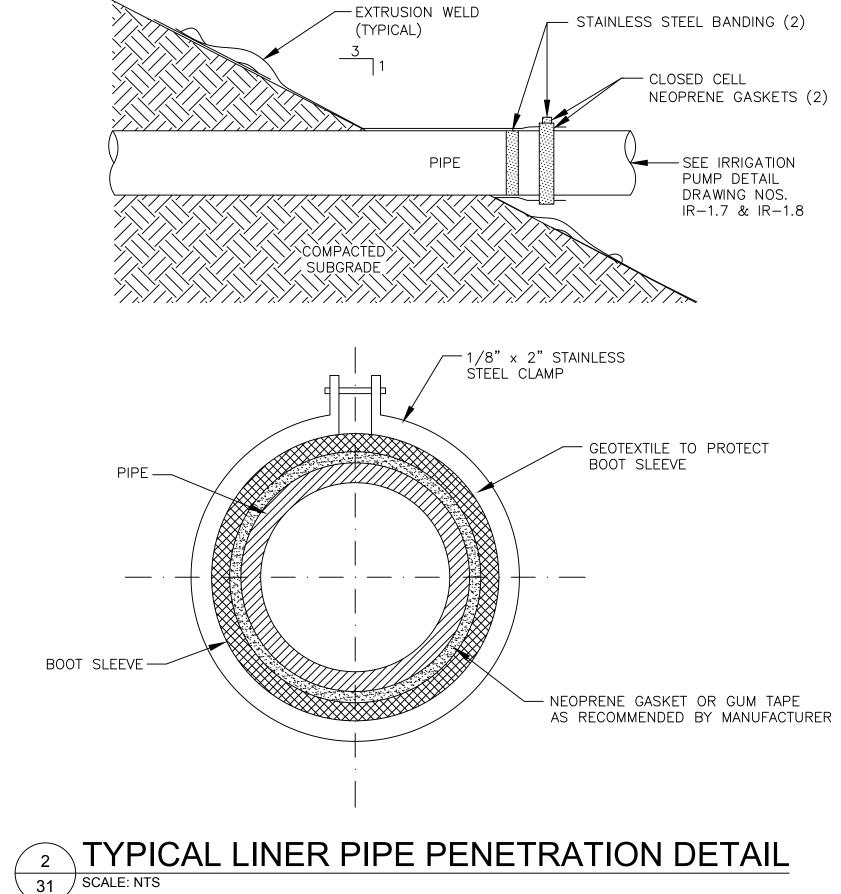
1. KEY SUBGRADE MATERIAL TO EXISTING MATERIAL.

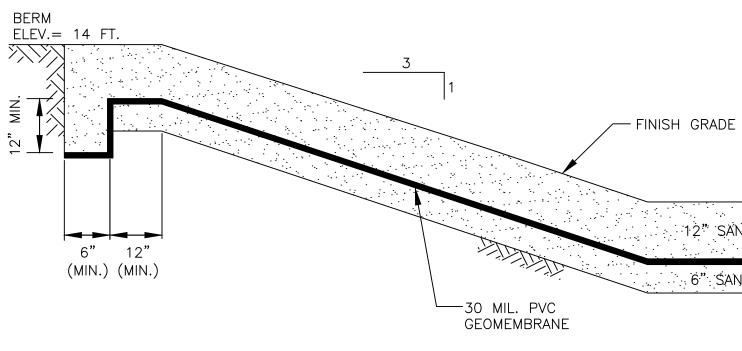




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HOWARD MAURER GOLF COURSE DESIGN, LLC NEWBURY, NEW HAMPSHIRE 603-763-0583 HOW.MAURER@GMAIL.COM





TYPICAL IRRIGATION POND LINER & BANK DETAIL 4 ` 31 SCALE: NTS

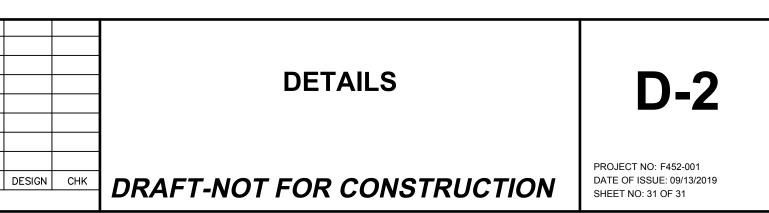
CYCC RECONFIGURATION								
AP 19 LOT 81								_
680 CHEQUESSETT NECK ROAD								+
WELLFLEET, MA								+
		No.	REVISION			DATE	DRAWN	1
	Not Valid Without Signature	DRA	WN BY: DWB	DESIGNED BY: DSB	CHECKED BY:			

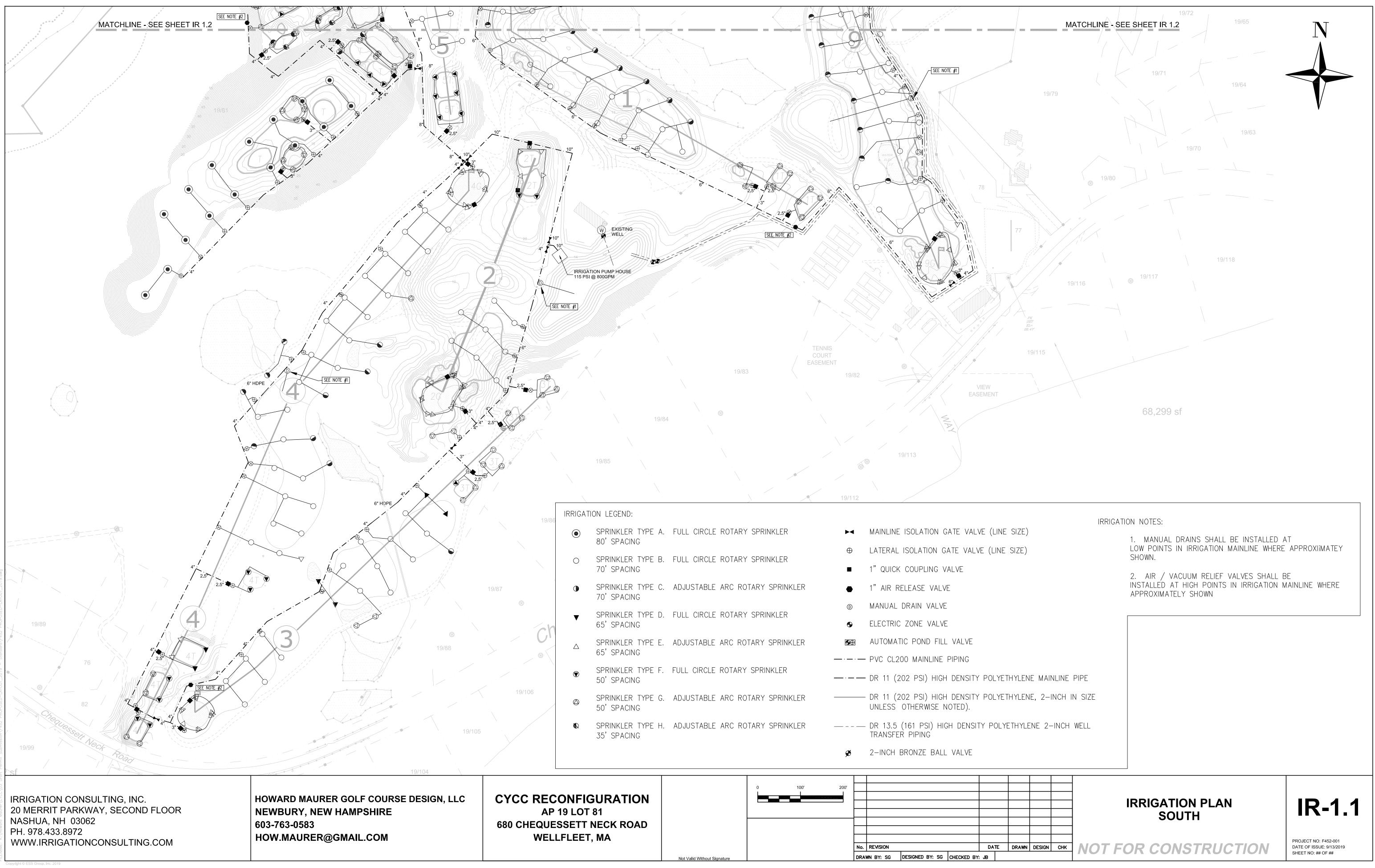
12" SAND / CLAY 6" SAND / CLAY

 $\frac{\text{POND BOTTOM}}{\text{ELEV.} = 4 \text{ FT.}}$

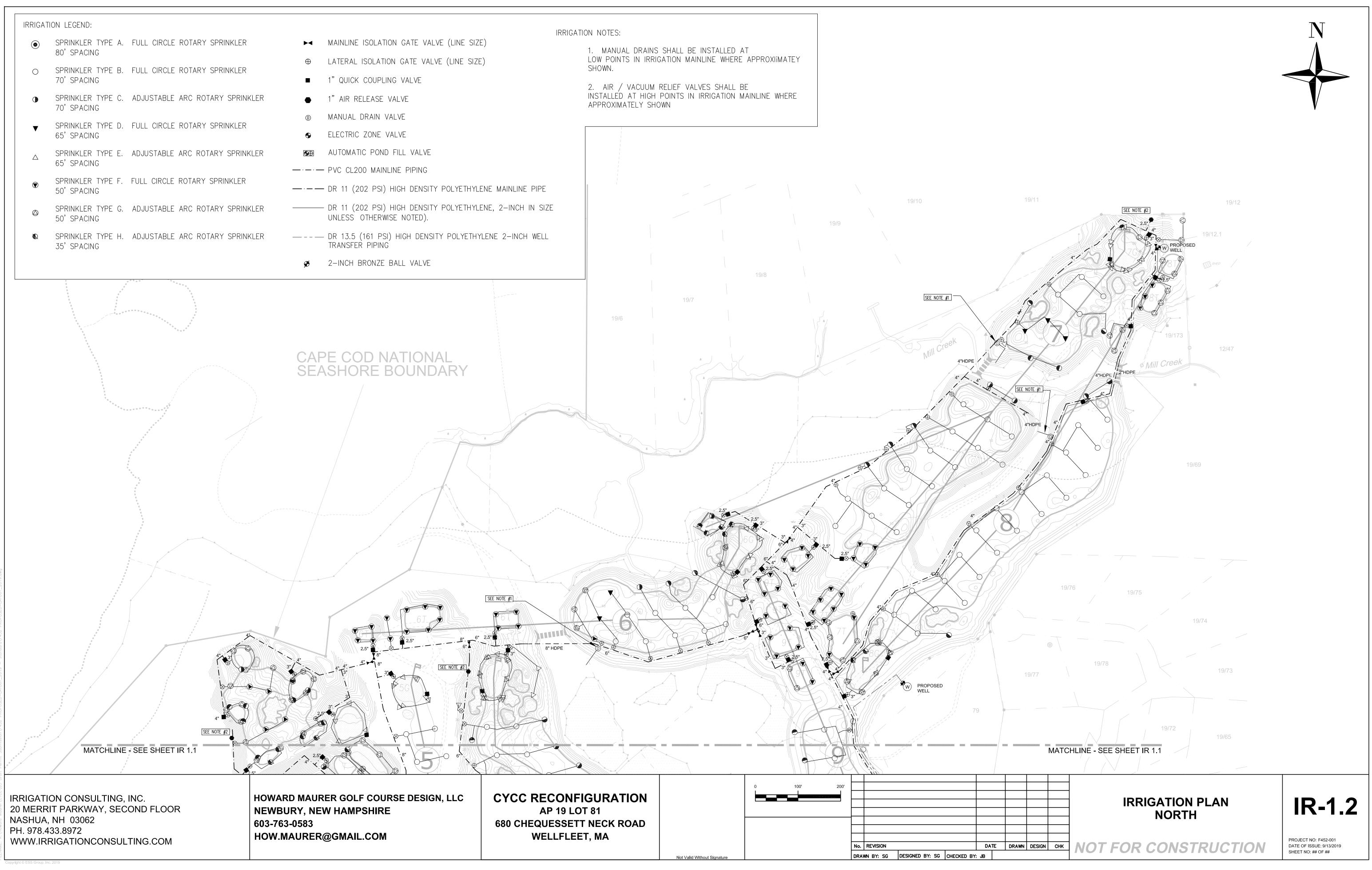
 \overline{Y}

- UNDISTURBED COMPACTED SUBGRADE OR COMPACTED SUITABLE BACKFILL MATERIAL (4" MAX. STONE IN TOP 12")

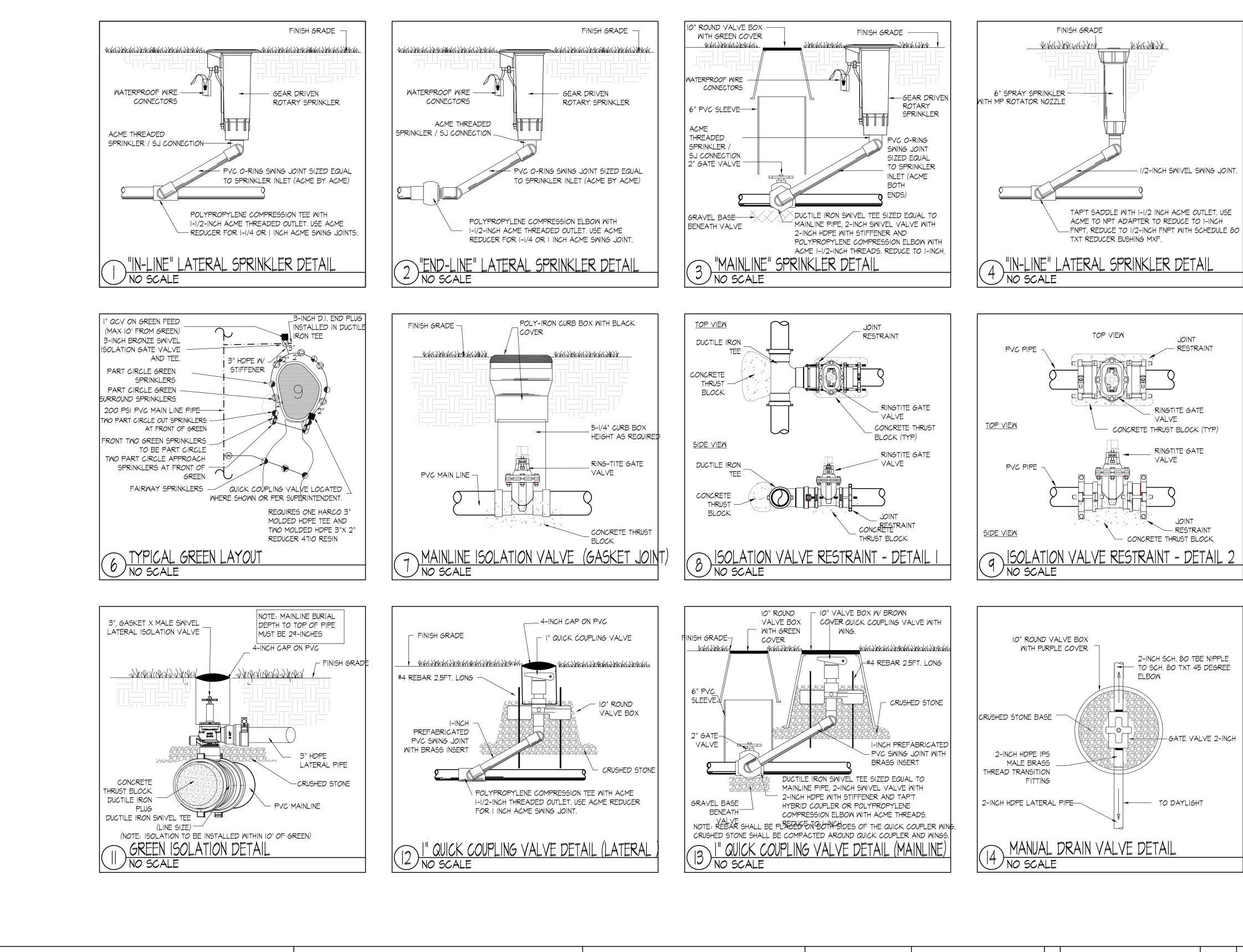




19/86	IRRIGATIO	ON LEGEND:	
	۲	SPRINKLER TYPE A. 80' SPACING	FULL CIRCLE ROTARY SPRINKLER
	0	SPRINKLER TYPE B. 70' SPACING	FULL CIRCLE ROTARY SPRINKLER
~		SPRINKLER TYPE C. 70' SPACING	ADJUSTABLE ARC ROTARY SPRINKLER
-h	▼	SPRINKLER TYPE D. 65' SPACING	FULL CIRCLE ROTARY SPRINKLER
	Δ	SPRINKLER TYPE E. 65' SPACING	ADJUSTABLE ARC ROTARY SPRINKLER
	\odot	SPRINKLER TYPE F. 50' SPACING	FULL CIRCLE ROTARY SPRINKLER
		SPRINKLER TYPE G. 50' SPACING	ADJUSTABLE ARC ROTARY SPRINKLER
	R	SPRINKLER TYPE H. 35' SPACING	ADJUSTABLE ARC ROTARY SPRINKLER



Sep 10, 2019 – 1:54PM IE: K:\Howard Maurer\CYCC\03 Draft Permit Submission\F452 PROPOSED-LAYOUT_2019 – Standard\F452 PROPOSED-LAYOUT_

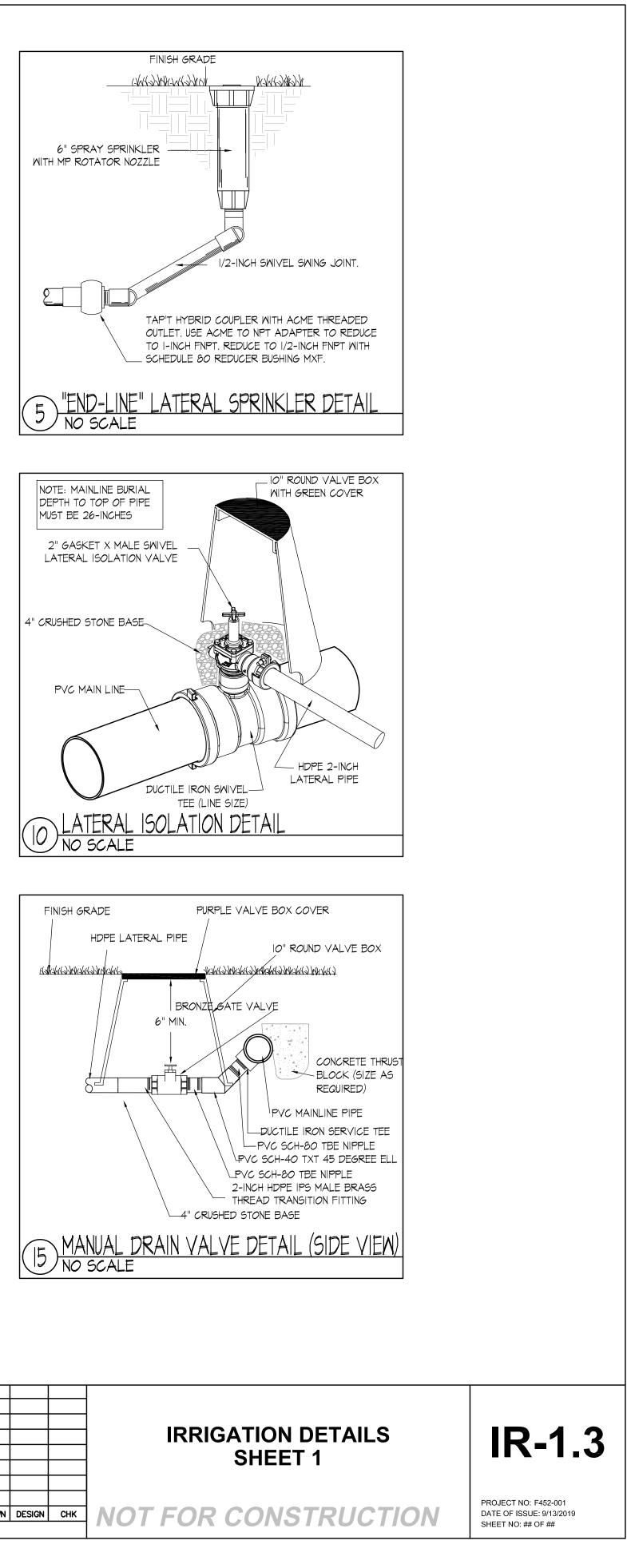


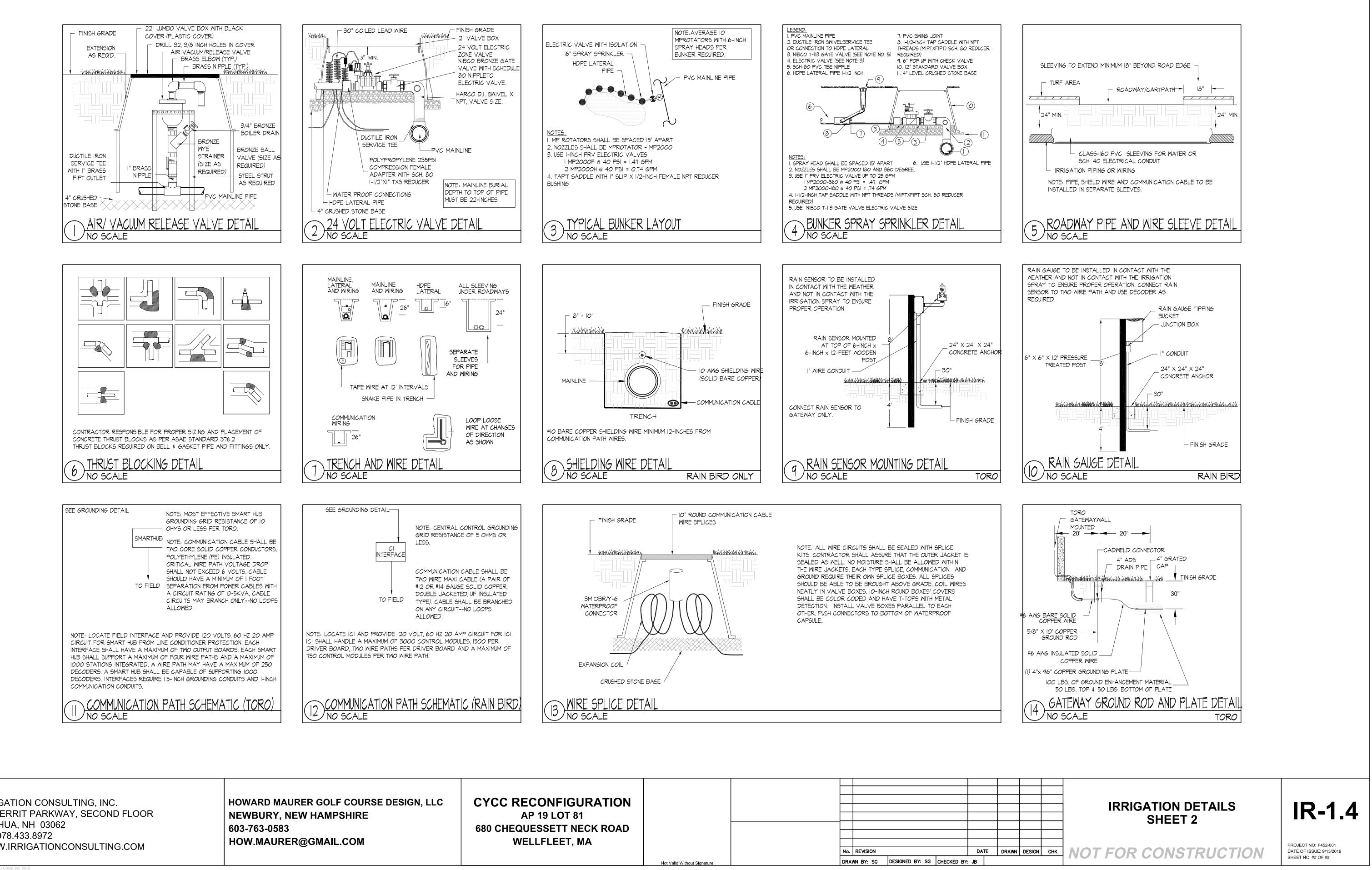
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CYCC RECONFIGURATION AP 19 LOT 81 680 CHEQUESSETT NECK ROAD WELLFLEET, MA

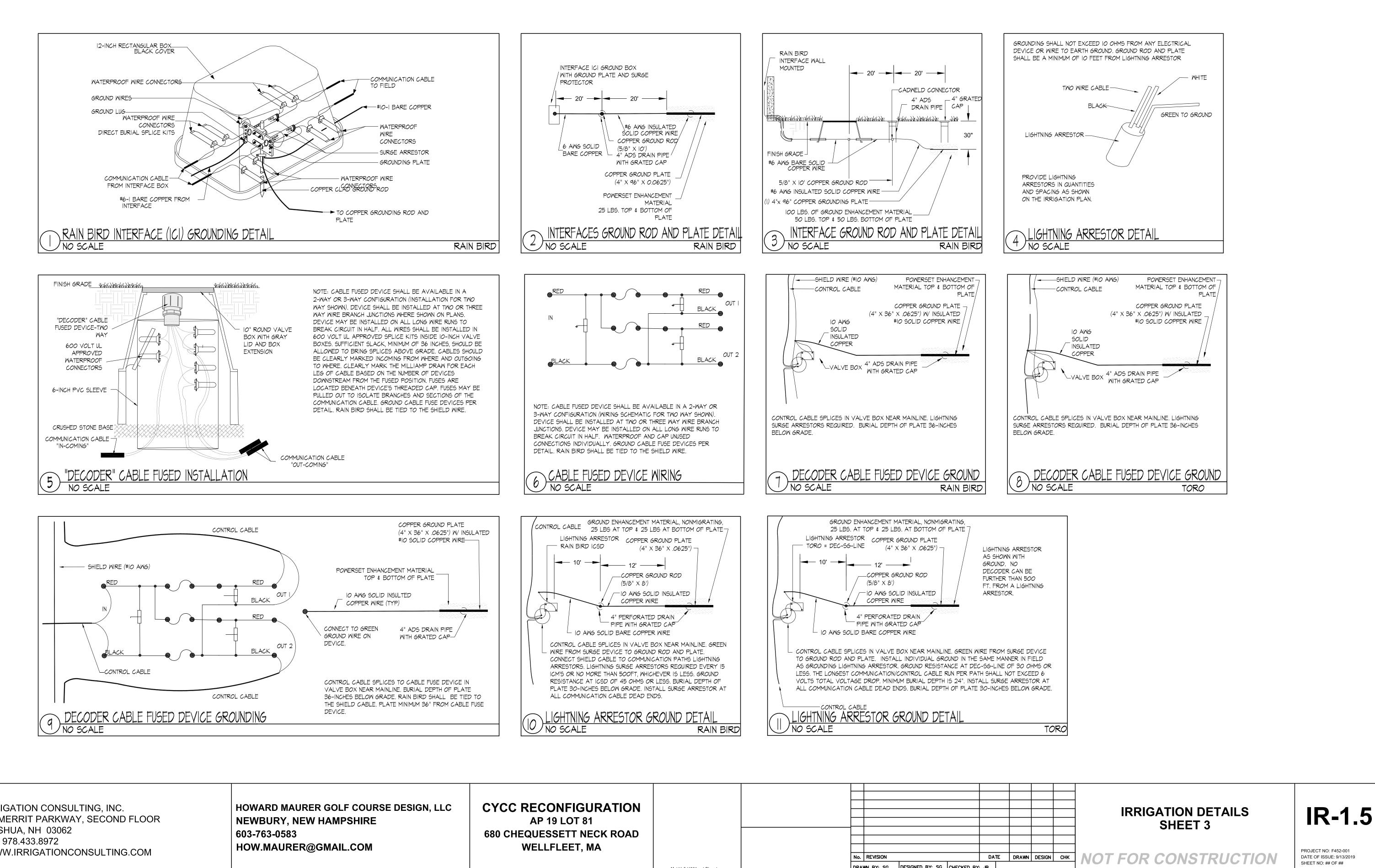
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Not Valid Without Signature





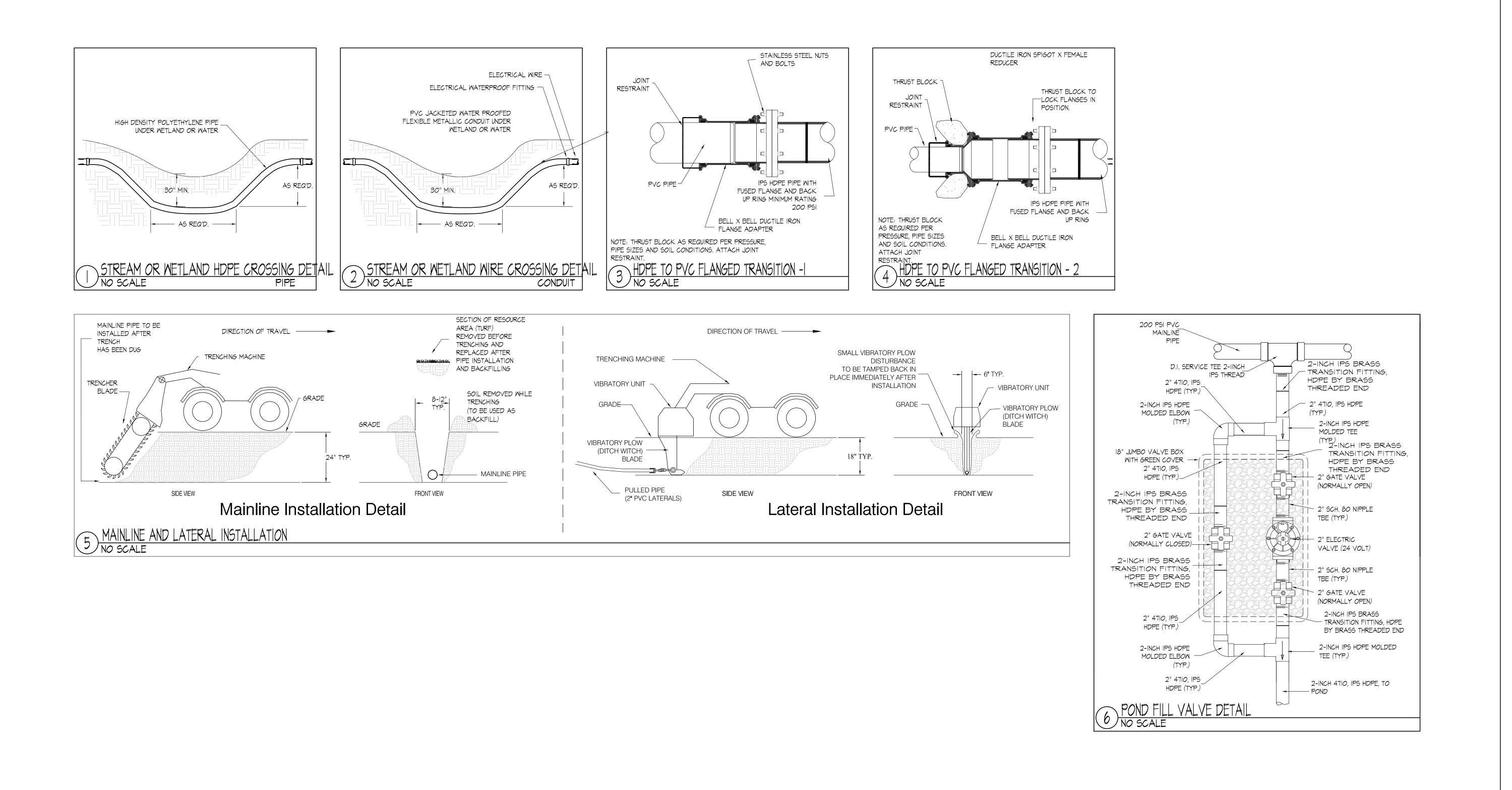
CYCC RECONFIGURATION							
AP 19 LOT 81							
680 CHEQUESSETT NECK ROAD							
WELLFLEET, MA							
		No.	REVISION			DATE	DRAW
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AP 19 LOT 81							
680 CHEQUESSETT NECK ROAD							
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		No.	REVISION			DATE	DRAWN
	Not Valid Without Signature	DRA	WN BY: SG	DESIGNED BY: SG	CHECKED BY	: JB	

PROJECT NO: F452-001

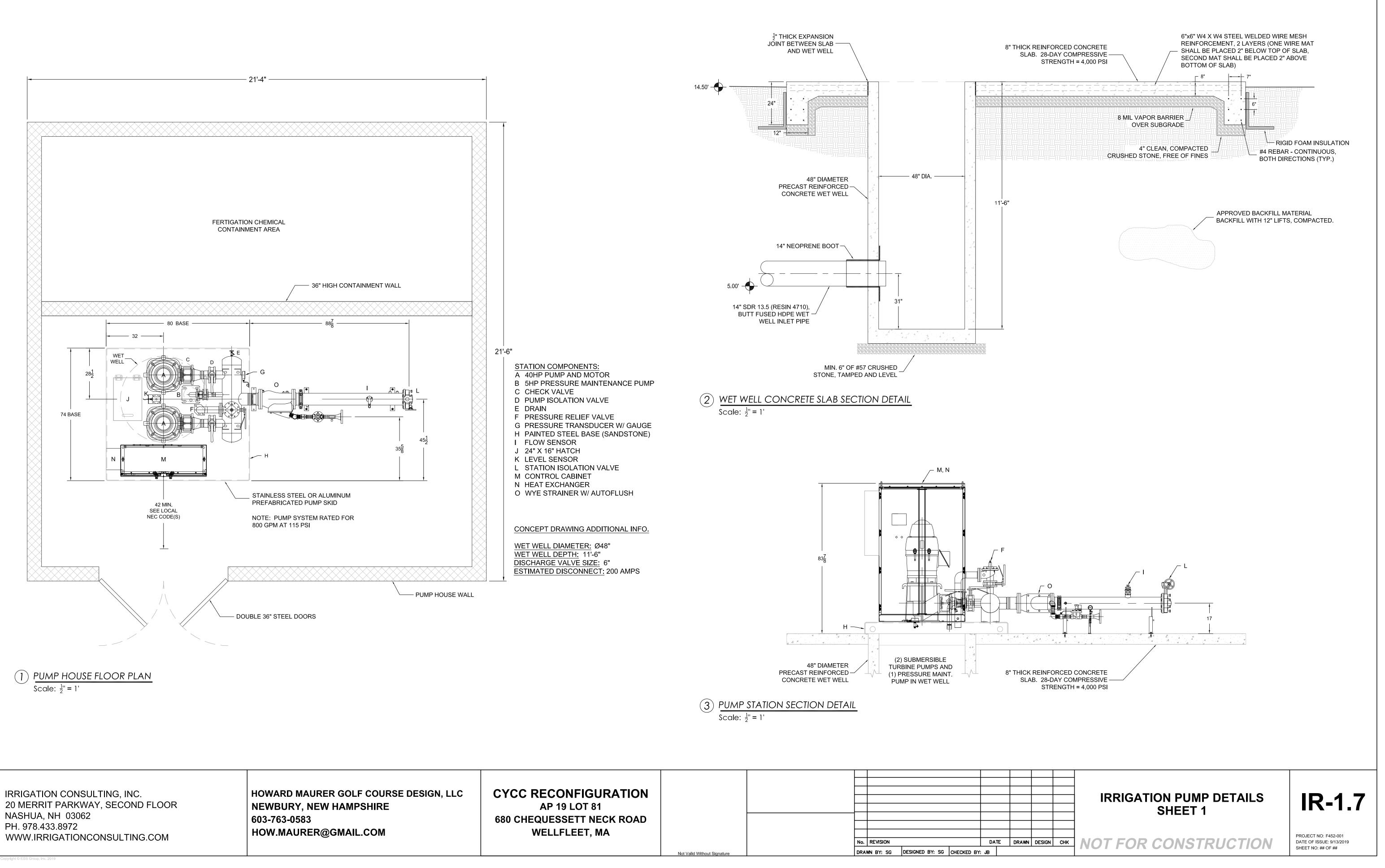
DATE OF ISSUE: 9/13/2019 SHEET NO: ## OF ##

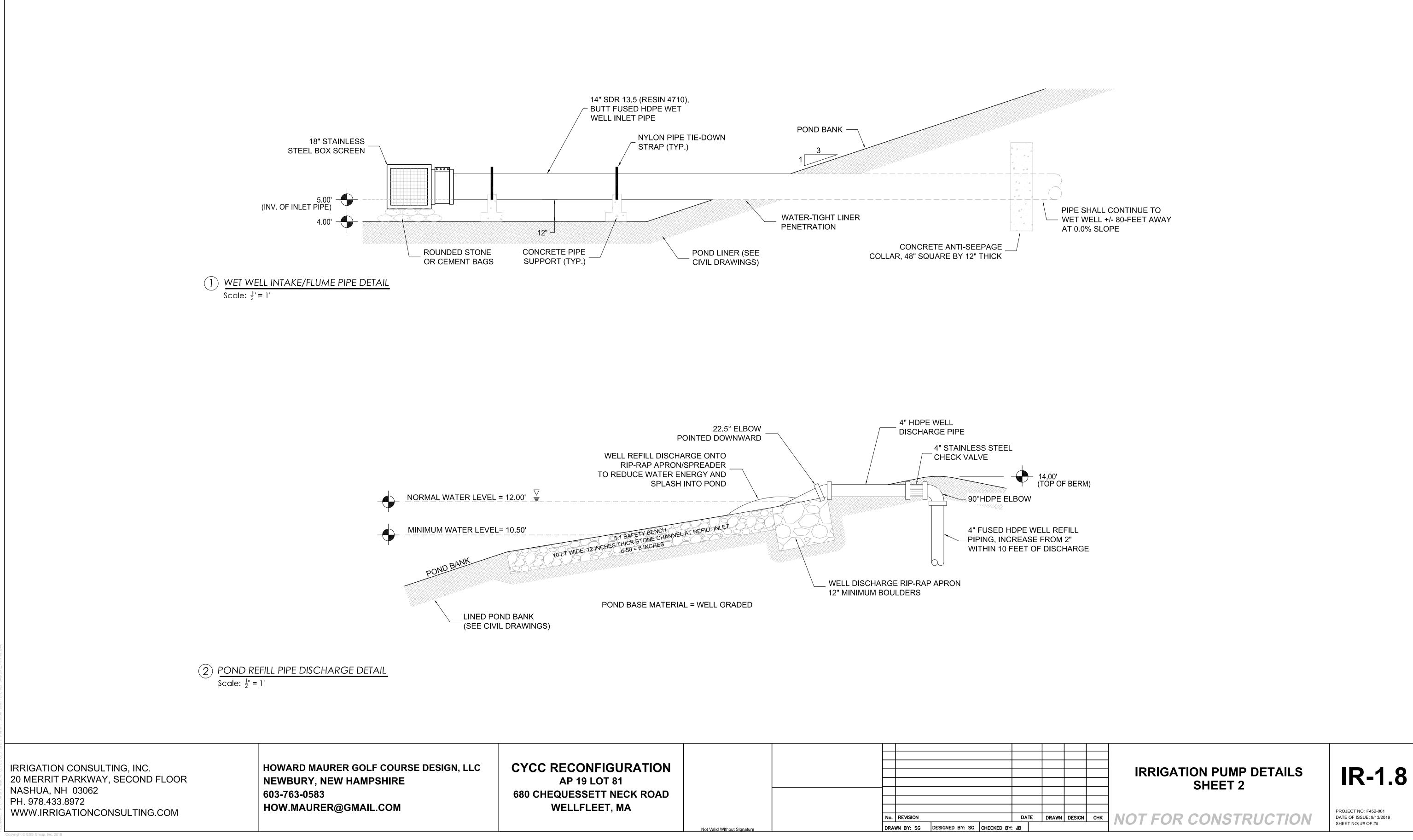


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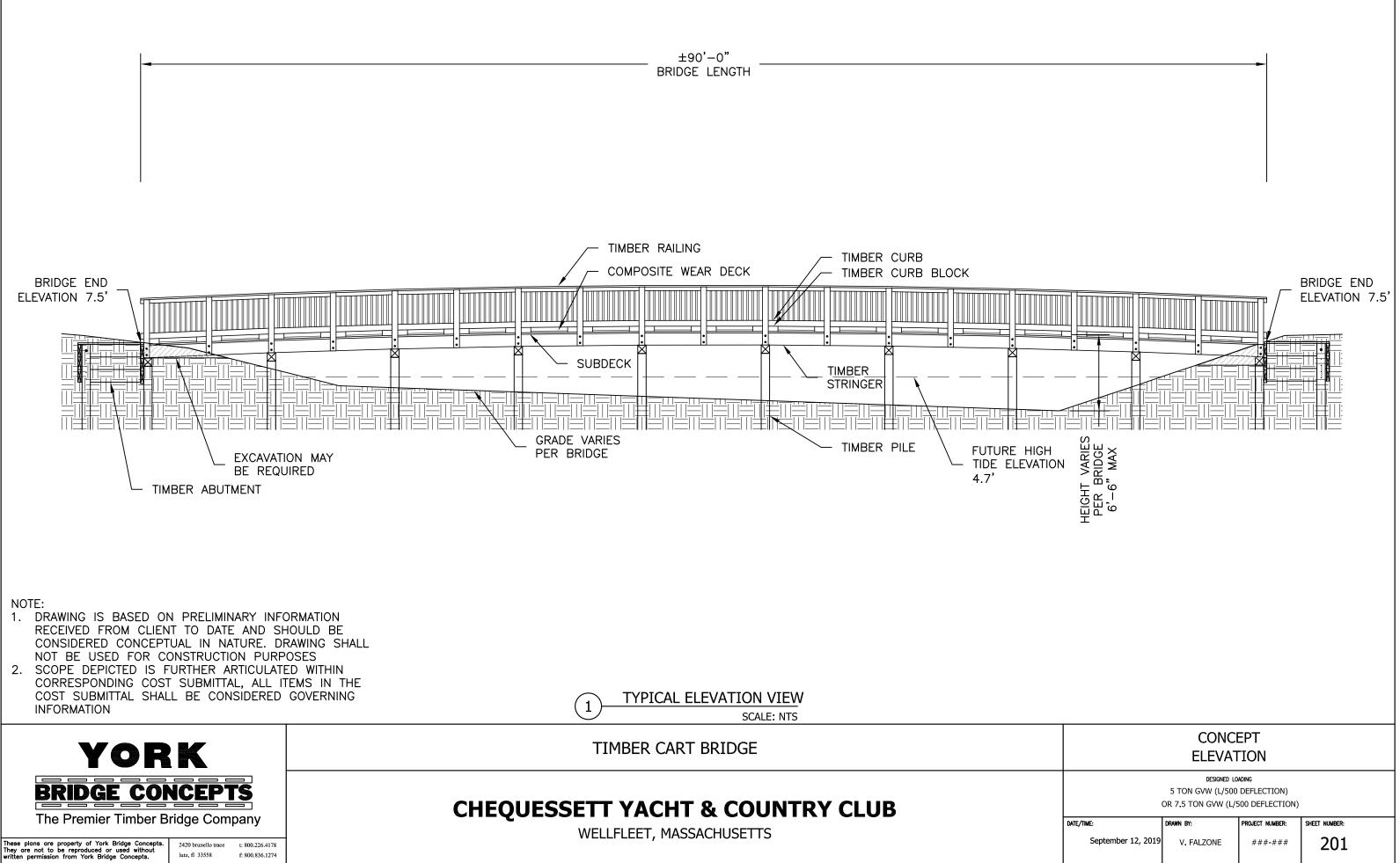
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80 CHEQUESSETT NECK ROAD									
WELLFLEET, MA									
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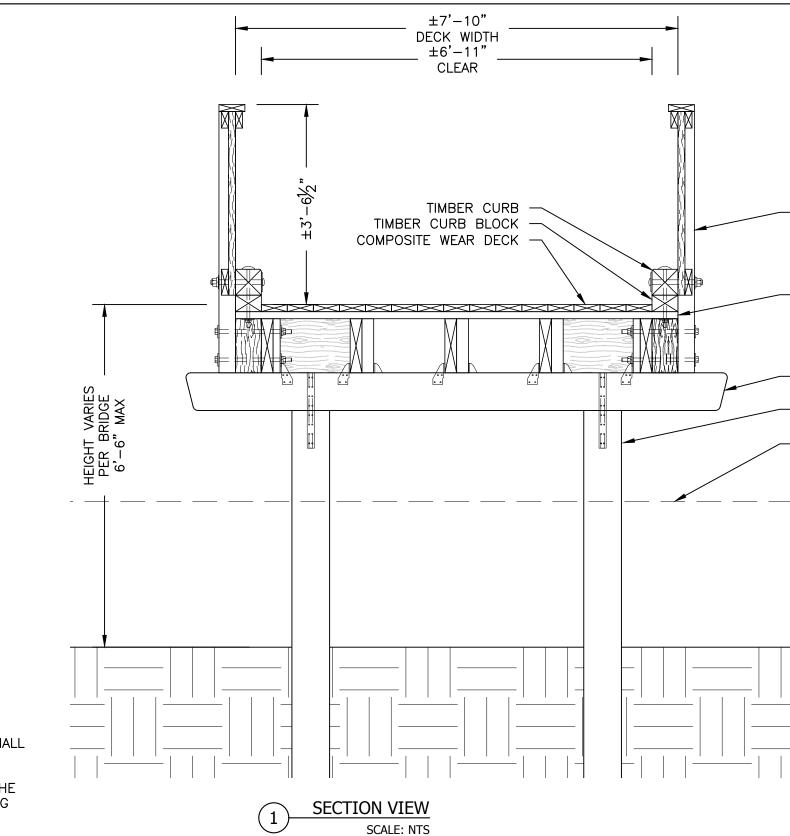






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TIMBER CART BRIDGE

CHEQUESSETT YACHT & COUNTRY CLUB

WELLFLEET, MASSACHUSETTS

NOTE:

- 1. DRAWING IS BASED ON PRELIMINARY INFORMATION RECEIVED FROM CLIENT TO DATE AND SHOULD BE CONSIDERED CONCEPTUAL IN NATURE. DRAWING SHALL NOT BE USED FOR CONSTRUCTION PURPOSES
- 2. SCOPE DEPICTED IS FURTHER ARTICULATED WITHIN CORRESPONDING COST SUBMITTAL, ALL ITEMS IN THE COST SUBMITTAL SHALL BE CONSIDERED GOVERNING INFORMATION



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TIMBER HANDRAIL

TIMBER SUBDECK

TIMBER PILE CAP

TIMBER PILE

FUTURE HIGH TIDE ELEVATION 4.7'



CONCEPT SECTION							
DESIGNED LOADING 5 TON GVW (L/500 DEFLECTION)							
Date/TIME: DRAWN BY: PROJECT NUMBER: September 12, 2019 V. FALZONE ###-###							

