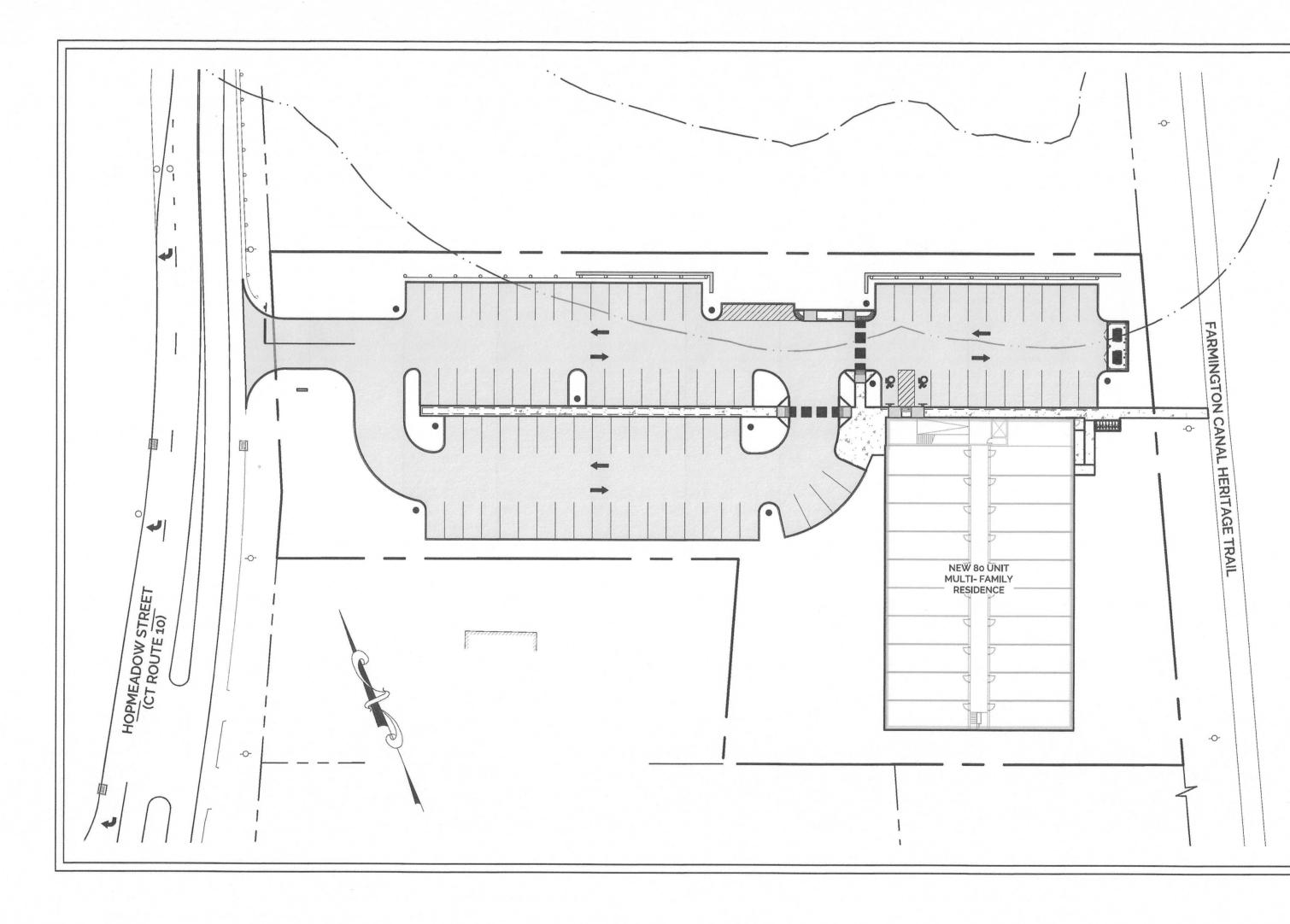
Plan Set

SITE DEVELOPMENT PLANS **VESSEL MULTI-FAMILY HOUSING** 446 HOPMEADOW STREET, SIMSBURY, CT 06089 PREPARED FOR: VESSEL TECHNOLOGIES, INC.



APPLICANT: VESSEL TECHNOLOGIES, INC. 46 WEST 55TH STREET NEW YORK, NY 10019

LEGEND

PROPERTY LINE

PROPERTY LINE	endeutinotecturation etchnicity etchnical and an
ADJOINER PROPERTY LINE	
BUILDING SETBACK LINE	
ZONE LINE	
WATERCOURSE	
INLAND WETLAND	
100' INLAND WETLAND UPLAND REVIEW AREA	·
TREELINE	
BRUSHLINE	
GUIDERAIL	o o
CHAINLINK FENCE	XX
EX. INDEX CONTOUR	
EX. INT. CONTOUR	99
PR. INDEX CONTOUR	
PR. INT. CONTOUR	99
PR. SPOT GRADE	7.50
PR. SWALE	\longrightarrow
OVERHEAD ELECTRIC	OHE
UNDERGROUND ELECTRIC UNDERGROUND ELECTRIC, TELEPHONE, CABLE SANITARY SEWER LINE	UE ETC SAN
STORM PIPE	
TELEPHONE LINE	TEL
WATER LINE	WWW
DOMESTIC WATER LINE	DW
FIRE PROTECTION LINE	FP
SILT FENCE	SF
HAYBALES	
TOP OF WALL	TW
BOTTOM OF WALL	BW
TOP OF CURB	тс
BOTTOM OF CURB	BC
UTILITY POLE	2
IRON PIPE/IRON ROD	IP
BORING HOLES	🕀 В2

DATE: DECEMBER 16, 2022

PROPERTY OWNER:

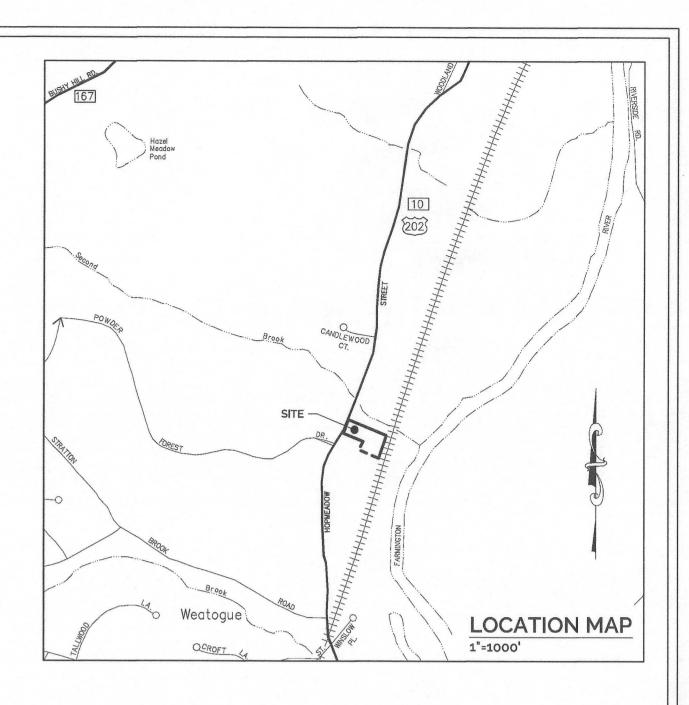
EAY PROPERTIES LLC 540 HOPMEADOW STREET #6 SIMSBURY, CT 06070

CIVIL ENGINEER:

H+H ENGINEERING ASSOCIATES, LLC SEAMUS MORAN, P.E. 232 GREENMANVILLE AVENUE, SUITE 201 MYSTIC, CT 06355

LANDSCAPE ARCHITECT:

THOMAS GRACEFFA LANDSCAPE ARCHITECT, LLC ROB HELLSTROM LAND SURVEYING LLC **19 FLAG DRIVE** MANCHESTER, CT 06040



SHEET INDEX DWG NO. TITLE SHEET NO. XD-1 **EXISTING CONDITIONS & DEMOLITION PLAN** SL-1 SITE LAYOUT PLAN GD-1 **GRADING & DRAINAGE PLAN** UT-1 UTILITIES PLAN SOIL EROSION & SEDIMENT CONTROL PLAN SE-1 SPP-: SITE PHOTOMETRIC PLAN SIGHTLINE DEMONSTRATION PLAN ST-1 SOIL EROSION & SEDIMENT CONTROL SEN-1 NARRATIVE AND DETAILS SITE DETAILS DT-1 DT-2 SITE DETAILS 10 DT-3 SITE DETAILS 11 DT-4 SITE DETAILS 12 PLANTING PLAN (BY OTHERS) 1 of 1

LAND SURVEYOR: **32 MAIN STREET** HEBRON, CT 06248



PREPARED BY: LHL ПиП

ENGINEERING

ASSOCIATES

232 Greenmanville Ave. Suite 201 Mystic, CT 06355 860-980-8008 www.hh-engineers.com



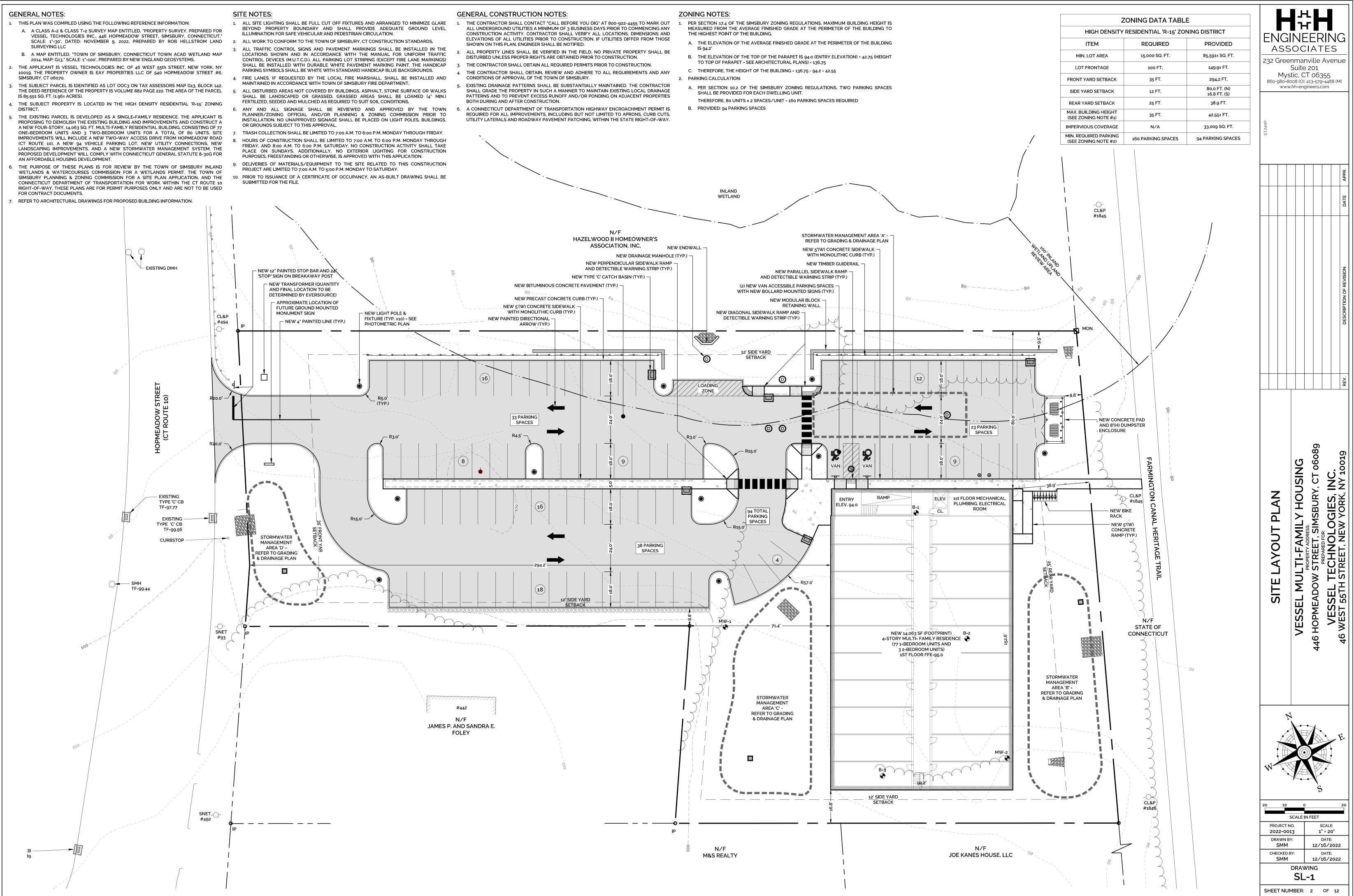
- CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- BOTH DURING AND AFTER CONSTRUCTION.
- UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.



- SURVEYING LLC

- DISTRICT.

- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN THE LOCATIONS SHOWN AND IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION. CONTROL DEVICES (M.U.T.C.D.). ALL PARKING LOT STRIPING (EXCEPT FIRE LANE MARKINGS) 3. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION. SHALL BE INSTALLED WITH DURABLE WHITE PAVEMENT MARKING PAINT. THE HANDICAP PARKING SYMBOLS SHALL BE WHITE WITH STANDARD HANDICAP BLUE BACKGROUNDS.
- MAINTAINED IN ACCORDANCE WITH TOWN OF SIMSBURY FIRE DEPARTMENT.
- FERTILIZED, SEEDED AND MULCHED AS REQUIRED TO SUIT SOIL CONDITIONS.
- OR GROUNDS SUBJECT TO THIS APPROVAL
- PURPOSES, FREESTANDING OR OTHERWISE, IS APPROVED WITH THIS APPLICATION.
- PROJECT ARE LIMITED TO 7:00 A.M. TO 5:00 P.M. MONDAY TO SATURDAY.
- SUBMITTED FOR THE FILE.



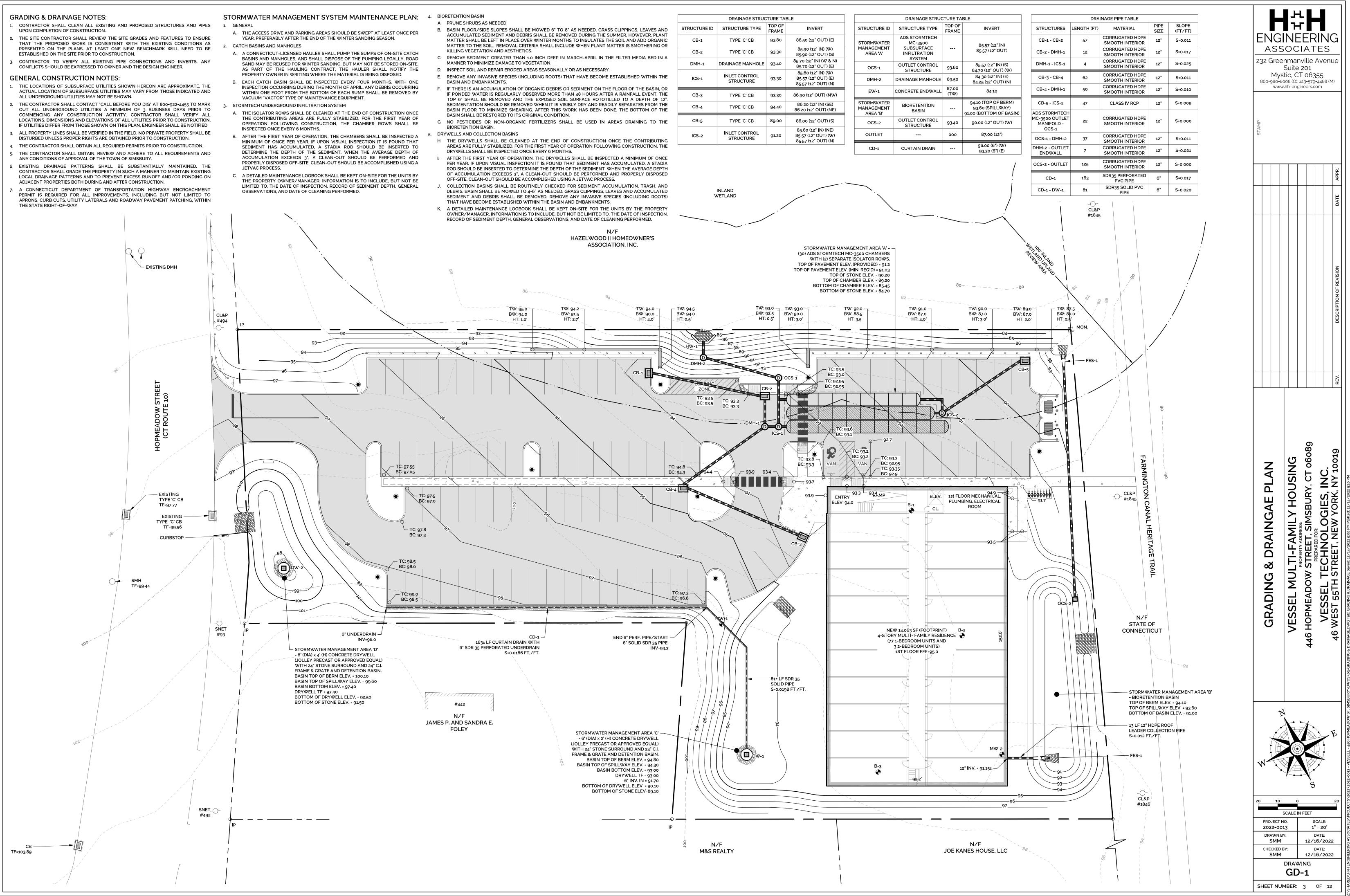
UPON COMPLETION OF CONSTRUCTION.

- ESTABLISHED ON THE SITE PRIOR TO CONSTRUCTION.
- CONFLICTS SHOULD BE EXPRESSED TO OWNER AND THE DESIGN ENGINEER.

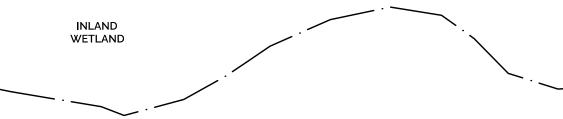
- ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN.

- ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION
- THE STATE RIGHT-OF-WAY

- YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.
- A. A CONNECTICUT-LICENSED HAULER SHALL PUMP THE SUMPS OF ON-SITE CATCH SAND MAY BE REUSED FOR WINTER SANDING, BUT MAY NOT BE STORED ON-SITE.
- VACUUM "VACTOR" TYPE OF MAINTENANCE EQUIPMENT.
- **INSPECTED ONCE EVERY 6 MONTHS.**
- MINIMUM OF ONCE PER YEAR. IF UPON VISUAL INSPECTION IT IS FOUND THAT SEDIMENT HAS ACCUMULATED, A STADIA ROD SHOULD BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT. WHEN THE AVERAGE DEPTH OF PROPERLY DISPOSED OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS.
- THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT BE



	DRAINAGE STRU
STRUCTURE ID	STRUCTURE TYPE
STORMWATER MANAGEMENT AREA 'A'	ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM
OCS-1	OUTLET CONTROL STRUCTURE
DMH-2	DRAINAGE MANHOLE
EW-1	CONCRETE ENDWAL
STORMWATER MANAGEMENT AREA 'B'	BIORETENTION BASIN
OCS-2	OUTLET CONTROL STRUCTURE
OUTLET	
CD-1	CURTAIN DRAIN



UTILITY NOTES:

- 1. ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
- 2. ALL UTILITY WORK TO CONFORM TO TOWN OF SIMSBURY STANDARDS AND POLICIES AND PRACTICES OF THE DEPARTMENT OF PUBLIC WORKS.
- ELECTRIC, TELEPHONE, CABLE, WATER, AND SANITARY SEWER SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE APPROPRIATE UTILITY AUTHORITY. ELECTRICAL SERVICES ARE PROVIDED BY EVERSOURCE: WATER SERVICES ARE PROVIDED BY AQUARION WATER COMPANY; SANITARY SEWER SERVICES ARE PROVIDED BY THE TOWN OF SIMSBURY.
- 4. ALL UTILITIES AND ON-SITE STORM DRAINAGE SHALL BE STRUCTURALLY SUPPORTED TO
- MINIMIZE DISRUPTION FROM SETTLEMENT OF UNDERLYING SOIL. SANITARY SEWER SERVICES SHALL BE SDR 35 PVC PIPE. SEWER MANHOLES SHALL BE 5' DIA.
- PRECAST CONCRETE WITH HEAVY DUTY CAST IRON GRATES. 6. UTILITY SERVICE SIZES, MATERIALS, AND INSTALLATIONS SHALL BE APPROVED AND
- INSPECTED BY THE APPROPRIATE UTILITY COMPANY. LIGHTING SHALL BE DIRECTED INTERNALLY TOWARDS PARKING AREAS. LIGHT STANDARDS, LUMINARIES, WIRING & LOCATION SHALL BE DESIGNED BY A LICENSED ELECTRICAL
- ENGINEER. PROVIDE MINIMUM VERTICAL SEPARATION OF 12" FROM WATER MAIN TO DRAINAGE PIPING
- AND 18" TO SANITARY SEWER PIPING. LOCATION AND SIZE OF ALL BUILDING UTILITY CONNECTIONS SHALL BE COORDINATED WITH BUILDING ARCHITECTURAL PLANS AND APPROPRIATE UTILITY AUTHORITY.

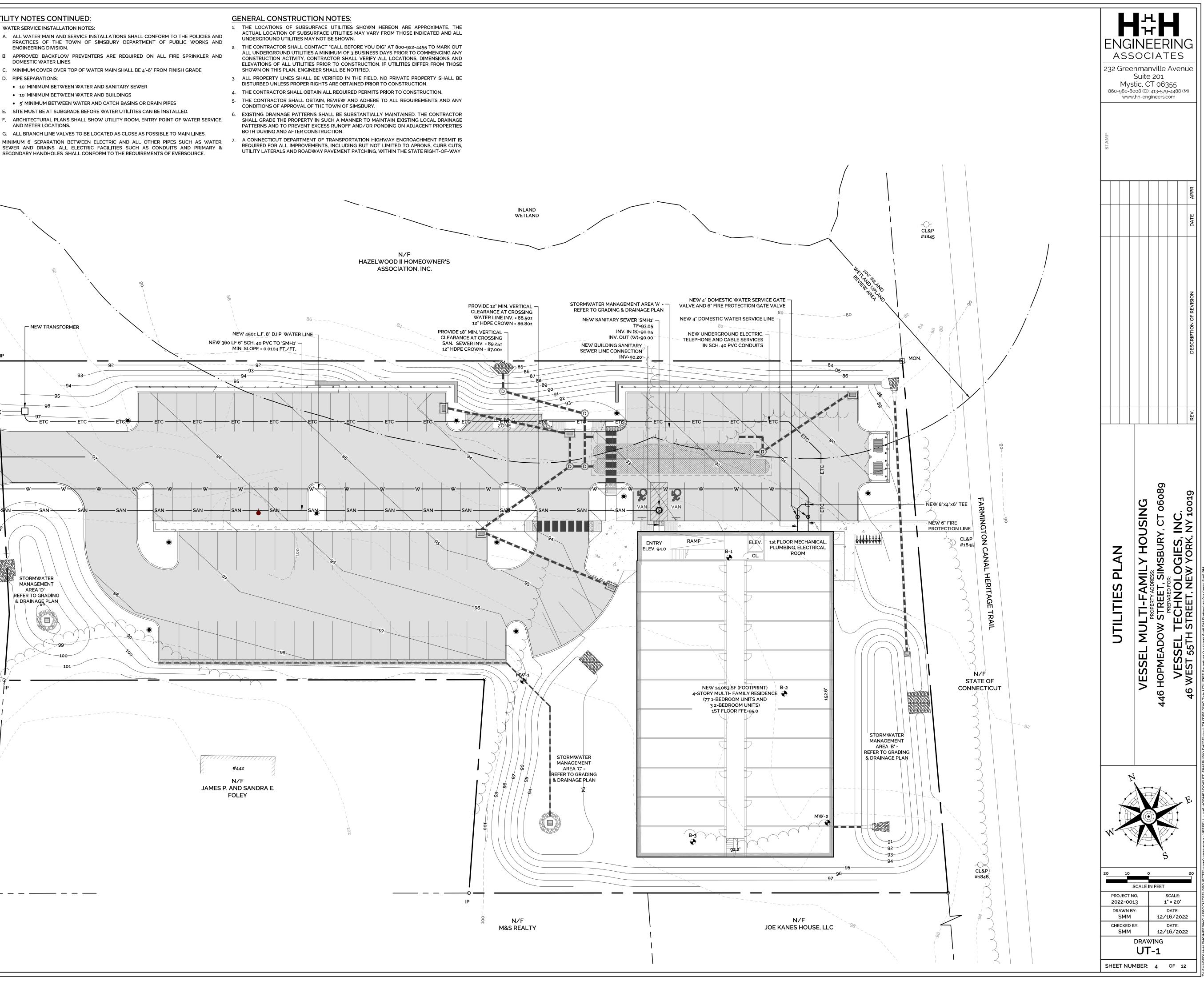
- UTILITY NOTES CONTINUED:
- 10. WATER SERVICE INSTALLATION NOTES:
- A. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO THE POLICIES AND PRACTICES OF THE TOWN OF SIMSBURY DEPARTMENT OF PUBLIC WORKS AND ENGINEERING DIVISION. B. APPROVED BACKFLOW PREVENTERS ARE REQUIRED ON ALL FIRE SPRINKLER AND
- DOMESTIC WATER LINES.
- C. MINIMUM COVER OVER TOP OF WATER MAIN SHALL BE 4'-6" FROM FINISH GRADE. D. PIPE SEPARATIONS:
- 10' MINIMUM BETWEEN WATER AND SANITARY SEWER
- 10' MINIMUM BETWEEN WATER AND BUILDINGS
- 5' MINIMUM BETWEEN WATER AND CATCH BASINS OR DRAIN PIPES
- E. SITE MUST BE AT SUBGRADE BEFORE WATER UTILITIES CAN BE INSTALLED. F. ARCHITECTURAL PLANS SHALL SHOW UTILITY ROOM, ENTRY POINT OF WATER SERVICE, AND METER LOCATIONS. BOTH DURING AND AFTER CONSTRUCTION.
- G. ALL BRANCH LINE VALVES TO BE LOCATED AS CLOSE AS POSSIBLE TO MAIN LINES. 11. MINIMUM 6' SEPARATION BETWEEN ELECTRIC AND ALL OTHER PIPES SUCH AS WATER,

SECONDARY HANDHOLES SHALL CONFORM TO THE REQUIREMENTS OF EVERSOURCE.

 \cap - EXISTING DMH - NEW TRANSFORMER CL&P **#494** — ЕТС – — ЕТС -CONNECT TO EXISTING WATER MAIN IN HOPMEADOW STREET CONNECT TO EXISTING -SANITARY SEWER MAIN IN HOPMEADOW STREET - EXISTING INV TO BE DETERMINED TYPE C CB TF=97.77 EXISTING TYPE 'C' CB TF=99.56 STORMWATER MANAGEMENT CURBSTOP -AREA 'D' -REFER TO GRADING & DRAINAGE PLAN (11) $\bigcirc +$ – SMH TF=99.44 -----SNET #93 SNET____ #492

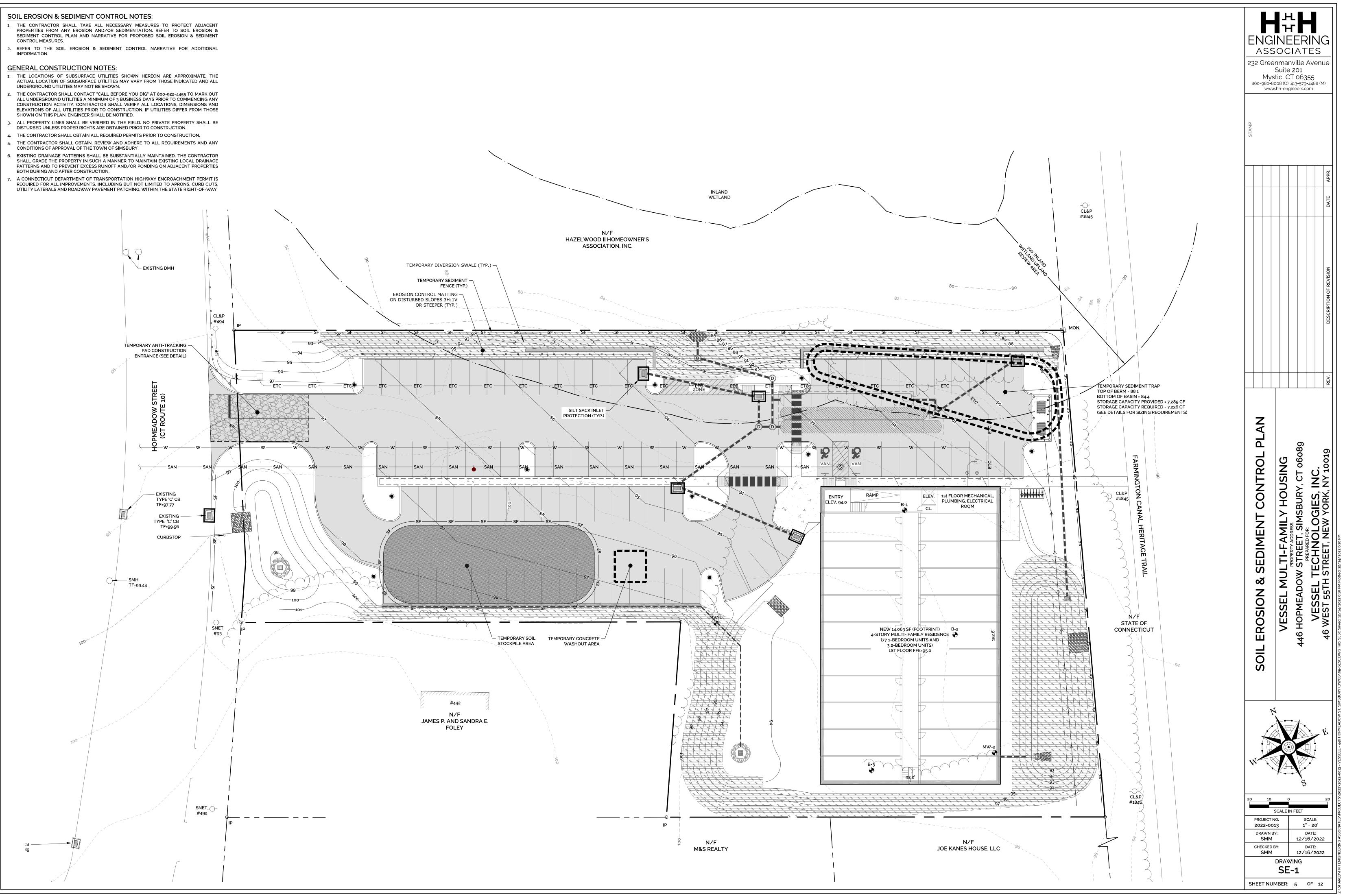
GENERAL CONSTRUCTION NOTES:

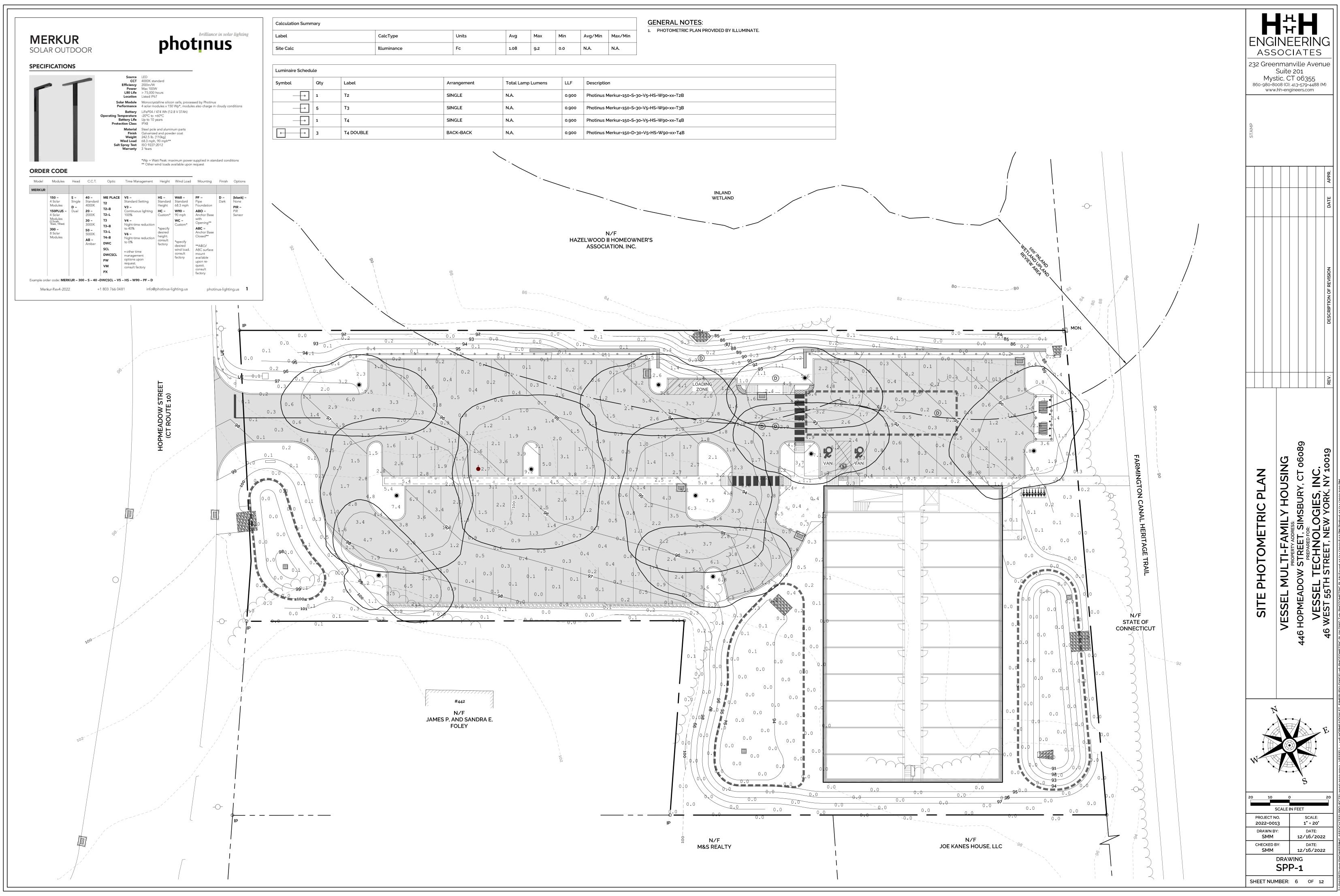
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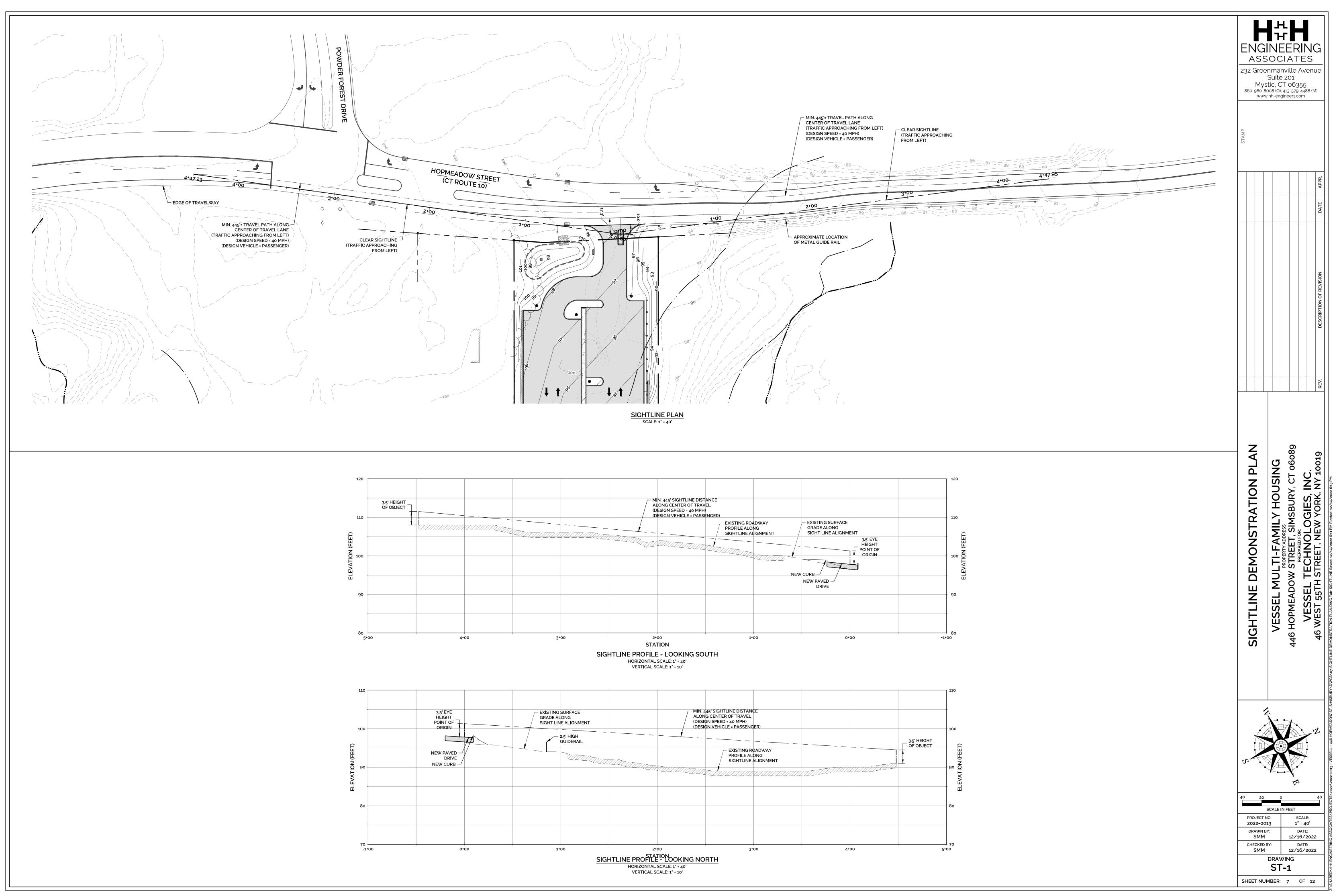


- PROPERTIES FROM ANY EROSION AND/OR SEDIMENTATION. REFER TO SOIL EROSION & SEDIMENT CONTROL PLAN AND NARRATIVE FOR PROPOSED SOIL EROSION & SEDIMENT
- REFER TO THE SOIL EROSION & SEDIMENT CONTROL NARRATIVE FOR ADDITIONAL INFORMATION.

- UNDERGROUND UTILITIES MAY NOT BE SHOWN.
- DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- BOTH DURING AND AFTER CONSTRUCTION.







SOIL EROSION & SEDIMENTATION CONTROL PLAN:

PROJECT DESCRIPTION

- THE APPLICANT IS PROPOSING TO DEMOLISH THE EXISTING BUILDING AND IMPROVEMENTS AND CONSTRUCT A A NEW FOUR-STORY, 14,063 SQ. FT. MULTI-FAMILY RESIDENTIAL BUILDING, CONSISTING OF 77 ONE-BEDROOM UNITS AND 3 TWO-BEDROOM UNITS FOR A TOTAL OF 80 UNITS. SITE IMPROVEMENTS WILL INCLUDE A NEW TWO-WAY ACCESS DRIVE FROM HOPMEADOW ROAD (CT ROUTE 10), A NEW 94 VEHICLE PARKING LOT, NEW UTILITY CONNECTIONS, NEW LANDSCAPING IMPROVEMENTS, AND A NEW STORMWATER MANAGEMENT SYSTEM. THE PROPOSED DEVELOPMENT WILL COMPLY WITH CONNECTICUT GENERAL STATUTE 8-30G FOR AN AFFORDABLE HOUSING DEVELOPMENT
- 2. CONSTRUCTION IS ANTICIPATED TO COMMENCE IN SPRING 2023. ALL SOIL EROSION & SEDIMENTATION CONTROLS (SESC) SHALL BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITIES. ALL SESC SHALL BE MAINTAINED AND REPAIRED OR REPLACED AS NEEDED THROUGHOUT THE CONSTRUCTION DURATION. SESC SHALL BE REMOVED AND PROPERLY DISPOSED OF AS SOON AS THE SITE IS COMPLETELY STABILIZED.
- THE TOPOGRAPHY IS MODERATE, SLOPING DOWN FROM ELEVATION 102 ALONG THE SOUTHERN PROPERTY LINE TO FLEVATION 84 ALONG THE NORTHERN PROPERTY LINE. THE EXISTING SITE IS DEVELOPED AS A SINGLE-FAMILY RESIDENCE. PER NRCS SOIL MAPPING, THE UNDERLYING SOIL ON THE SITE MOSTLY CONSISTS OF HINCKLEY LOAMY SAND, HYDROLOGIC SOIL GROUP A.
- 4. A LARGE PORTION OF THE UPLAND SOILS WILL BE DISTURBED BY EARTHWORK ACTIVITIES AND THE INTENT OF THIS SESC PLAN IS TO ESTABLISH STORMWATER CONTROLS DURING CONSTRUCTION TO PREVENT THE DISCHARGE OF SEDIMENT LADEN RUNOFF FROM ENTERING STORM DRAIN SYSTEMS, WETLANDS AND/OR WATERCOURSES.
- THE PROJECT DEVELOPMENT WILL REQUIRE DEMOLITION AND CLEARING OF APPROXIMATELY 1.9 ACRES OF AREA AND EARTHWORK TO PREPARE THE BUILDING SITE. EARTHWORK ACTIVITIES WILL EXPOSE SOILS TO EROSION DURING RAINFALL EVENTS.

GENERAL SESC REQUIREMENTS

- THE SITE CONTRACTOR MUST FOLLOW ALL GUIDELINES SET FORTH IN THE MANUAL ENTITLED "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION. THIS MANUAL IS ALSO KNOWN AS DEP BULLETIN 34 SESC MEASURES INTENDED TO MINIMIZE SOIL EROSION AND TO CONTROL SEDIMENTATION DURING
- CONSTRUCTION INCLUDE: A. THE INSTALLATION OF SILT FENCE AND/OR STAKED HAYBALES ALONG THE DOWNGRADIENT LIMIT OF DISTURBANCE.
- B. THE IMMEDIATE STABILIZATION OF DISTURBED AREAS THROUGH THE PLACEMENT OF TEMPORARY SEED AND MULCH OR FINAL TOPSOIL, SEED AND MULCH.
- C. CONSTRUCTION OF TEMPORARY SEDIMENT TRAPS. D. THE USE OF EROSION CONTROL BLANKETS TO STABILIZED CUT AND FILL SLOPES GRADED AT 3H:1V OR STEEPER. EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN ROLLMAX BIONET C125BN AS MANUFACTURED BY NORTH AMERICAN GREEN, LOCATED AT 4609 E. BOONVILLE-NEW HARMONY ROAD, EVANSVILLE, INDIANA, 47725
- E. DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN. 3. ALL ADJACENT PROPERTIES SHALL BE ADEQUATELY PROTECTED FROM SOIL EROSION AND SEDIMENTATION BOTH
- DURING AND AFTER CONSTRUCTION. 4. CONSTRUCTION ENTRANCE SHALL BE INSTALLED BEFORE CONSTRUCTION TRAFFIC INTO AND OUT OF THE SITE
- BEGINS. 5. THE CONTRACTOR SHALL INSTALL SILT FENCING PRIOR TO INITIATING CONSTRUCTION ACTIVITIES AND SHALL BE MAINTAINED/REPAIRED UNTIL FINAL STABILIZATION OF ALL DISTURBED AREAS.
- 6. ALL AREAS SHALL REMAIN UNDISTURBED UNTIL IMMEDIATELY PRIOR TO SITE DEVELOPMENT. 7. ALL EXISTING VEGETATION OUTSIDE OF THE LIMITS OF DISTURBANCE SHALL BE PROTECTED. EXISTING VEGETATION SHALL BE REMOVED ONLY IN AREAS NECESSARY FOR SITE CONSTRUCTION ACTIVITIES.
- 8. ALL CONSTRUCTION EQUIPMENT, MATERIALS AND STOCKPILES SHALL NOT BE PLACED OUTSIDE OF THE DISTURBED AREAS.
- 9. THE CONTRACTOR SHALL SEED AND MULCH DISTURBED AREAS EXPECTED TO REMAIN UNSTABILIZED FOR A PERIOD OF MORE THAN 30 DAYS. 10. THE CONTRACTOR SHALL COMPLETE PERMANENT SEEDING BETWEEN APRIL1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH OCTOBER 1ST. APPLY PERMANENT SOIL STABILIZATION MEASURES TO ALL GRADED AREAS WITHIN 7 DAYS OF ESTABLISHING FINAL GRADE AT A RATE OF 90 POUNDS PER 1,000 SQUARE FEET.
- RECOMMENDED SEED MIXTURE: FUTURA 2000 BY THE CHAS C. HART CO. CONTAINING THE FOLLOWING VARIETIES OF PERENNIAL RYEGRASSES: FIESTA II, BLAZER II, DASHER II AND EXPRESS. 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL SESC BEFORE, DURING AND AFTER CONSTRUCTION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE PROPER
- REMOVAL AND DISPOSAL OF ALL EROSION AND SEDIMENT CONTROLS ONCE THE SITE IS COMPLETELY STABILIZED. 12. ALL SESC SHALL BE INSPECTED WEEKLY AND AFTER ALL RAINFALL EVENTS. ALL SESC SHALL BE REPAIRED OR REPLACED AS NECESSARY WITHIN 24 HOURS THROUGHOUT THE CONSTRUCTION DURATION.

CONSTRUCTION SEQUENCE

- 1. CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS. INSTALL TEMPORARY CONSTRUCTION ENTRANCE, SEDIMENT FENCE AND/OR HAY BALE BARRIERS AS SHOWN ON THE SESC PLAN.
- 3. DISCONNECT UTILITIES ON BUILDING TO BE REMOVED.
- 4. DEMOLISH AND REMOVE EXISTING BUILDING. STRUCTURES AND ASSOCIATED SITE IMPROVEMENTS.
- REMOVE ALL TREES. BRUSH AND STUMPS WITHIN LIMIT OF DISTURBANCE AS NECESSARY. THERE SHALL BE NO BURIAL OF CONSTRUCTION DEBRIS, STUMPS, BRUSH OR UNSUITABLE MATERIAL ON SITE
- REMOVE AND STOCKPILE ALL TOPSOIL ON SITE AND PROVIDE A SEDIMENT FENCE ON THE DOWNSLOPE SIDE. SEED STOCKPILE WITH PERENNIAL RYEGRASS AT A RATE OF 40 POUNDS PER ACRE AND MULCH WITH HAY OR STRAW. IF OUTSIDE THESE GROWING SEASON. AREAS SHALL BE STABILIZED WITH STRAW OR HAY MULCHING AT A RATE OF 90 POUNDS PER 1000 SQUARE FEET
- CONSTRUCT TEMPORARY SEDIMENT TRAP. GRADE DISTURBED AREAS TO DRAIN TO THE TEMPORARY SEDIMENT TRAP USING TEMPORARY DIVERSION SWALES. NO DISTURBED SURFACES SHALL BE GRADED TOWARD THE WETLANDS
- EXCAVATE AND/OR FILL WORK SITE TO SUBGRADE LEVEL. A. NO ROCK CRUSHING AND/OR BLASTING IS PROPOSED. IF BLASTING IS REQUIRED FOR ROCK REMOVAL, A
- PRE-BLAST SURVEY SHALL BE PERFORMED. IF BLASTING AND ROCK CRUSHING ARE REQUIRED THEN APPROVAL OF THE PLANNING & ZONING COMMISSION IS REQUIRED. B. FILL WILL BE PLACED AND COMPACTED IN 8 INCH LIFTS AND SHALL BE FREE OF BRUSH, RUBBISH, LOGS,
- BUILDING DEBRIS, OR ANY OTHER OBJECTIONABLE MATERIAL. CONSTRUCT RETAINING WALLS AS REQUIRED. C. MOISTEN SOIL SURFACE PERIODICALLY WITH WATER TO MINIMIZE DUST.
- BEGIN CONSTRUCTION OF BUILDING AND INSTALL UTILITIES. MAINTAIN TEMPORARY DRAINAGE TO SEDIMENT TRAP. ADD EROSION CONTROL DEVICES AS NEEDED.
- 8. INSTALL STORMWATER MANAGEMENT IMPROVEMENTS AND DRAINAGE STRUCTURES STARTING FROM THE MOST DOWNGRADIENT IMPROVEMENTS. INSTALL FILTER FABRIC AND/OR HAY BALES AT CATCH BASINS IMMEDIATELY AFTER CATCH BASIN INSTALLATION.
- 9. PLACE AND COMPACT BASE MATERIAL TO FINAL GRADE. INSTALL PAVEMENT BASE COURSE, CURB, SIDEWALKS, STEPS, ETC.
- 10. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS, PARKING, SIDEWALKS, ETC., SHALL BE GRADED AND STABILIZED AS FOLLOWS:
- A. PLACE MINIMUM 4 INCHES OF TOPSOIL IN ALL AREAS.
- B. APPLY RECOMMENDED SEED MIXTURE AT RECOMMENDED RATE. C. APPLY STRAW OR HAY MULCH ON ALL SEEDED AREAS. ALL GRADED AREAS WITH SLOPES GRADED AT 3H:1V OR STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS
- 11. INSTALL FINAL PAVEMENT COURSE. 12. FINAL GRADE AND PLACE TOPSOIL SEED AND MULCH.
- 13. WHEN ALL GRADED AREAS ARE PERMANENTLY STABILIZED, REMOVE ALL EROSION AND SEDIMENT CONTROLS. REMOVE TRAPPED SEDIMENT.

TRENCH EXCAVATION AND BACKFILL

- THE CONTRACTOR SHALL PROPERLY MAINTAIN ALL BACKFILLED EXCAVATIONS. ANY DEPRESSIONS DUE TO SETTLING IN THESE AREAS SHALL BE FILLED AND RESEEDED AS NECESSARY.
- THE WIDTH OF ALL EXCAVATED TRENCHES SHALL BE KEPT AS NARROW AS PRACTICABLE TO ACCOMMODATE THE WORK. ALL MATERIALS EXCAVATED FROM TRENCHES SHALL BE STOCKPILED AND USED AS TRENCH BACKFILL MATERIAL UNLESS IT IS DETERMINED TO BE UNSUITABLE BY THE ENGINEER. EXCESS MATERIALS SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.

VEGETATIVE TURF ESTABLISHMENT PROCEDURE

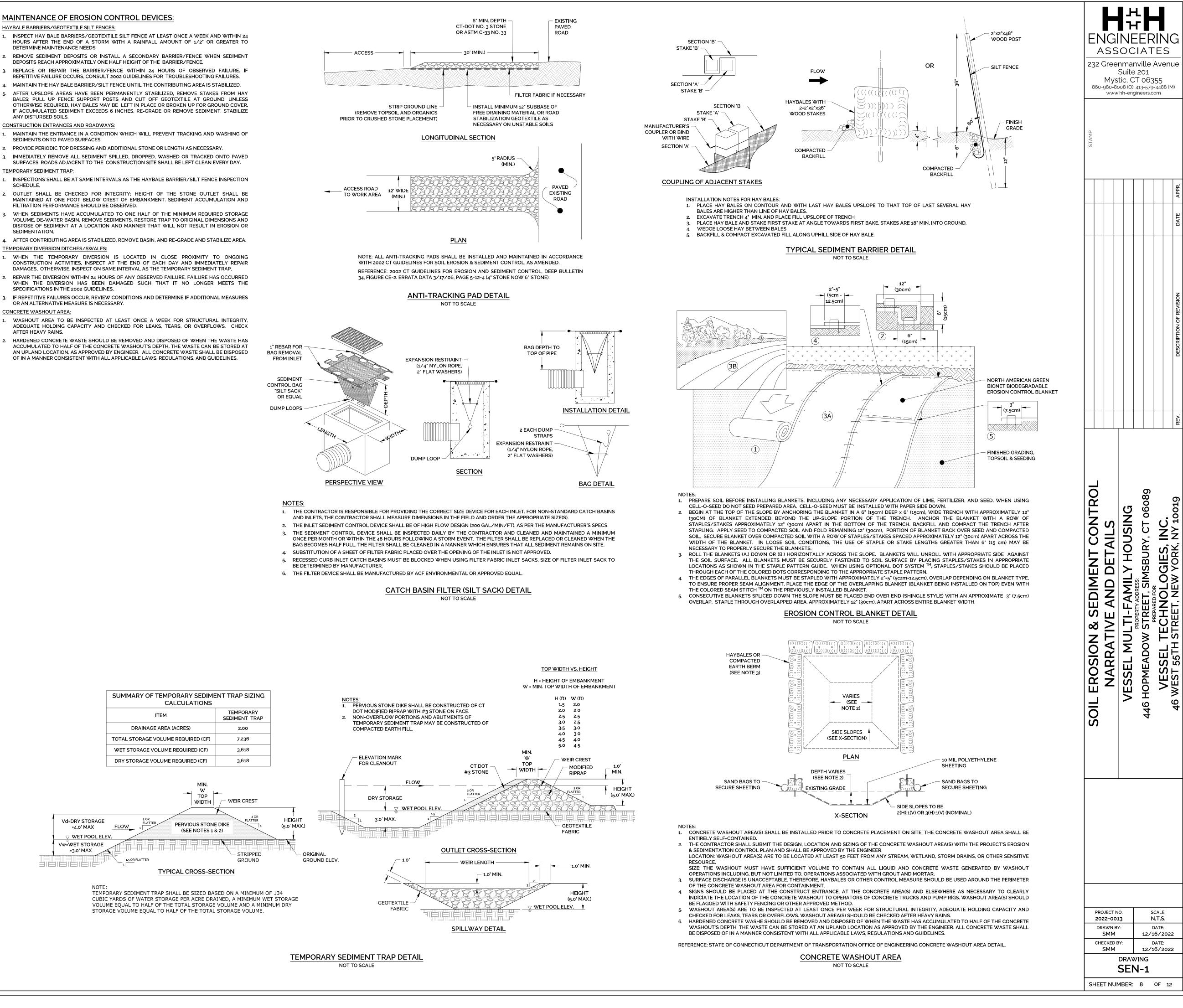
1. SCARIFY ALL AREAS TO BE TOPSOILED AND SEEDED. APPLY A MINIMUM OF 4 INCHES OF TOPSOIL ON ALL AREAS TO BE SEEDED. APPLY GRASS SEED, LIME, FERTILIZER AND MULCH ACCORDING TO THE FOLLOWING SCHEDULE: 2. PERMANENT SEED MIXTURE

CREEPING RED FESCUE	0.45 LBS. PER 1,000 SQ. FT.
REDTOP	0.05
TALL FESCUE	0.45
TOTAL	0.95

- 3. FERTILIZER
- 10-10-10 APPLY AT 7.5 LBS. PER 1,000 SQ. FT.
- 4. LIMESTONE: APPLY AT 150 LBS. PER 1,000 SQ. FT.
- MULCHING:
- SPREAD HAY OR STRAW OVER ALL AREAS AFTER SEEDING. USE 1 1/2 TO 2 BALES PER 1,000 SQ. FT. TARGET FOR 100% COVERAGE. ANCHOR BY USING NETTING OR TRACKING AS NECESSARY 6. TEMPORARY EROSION CONTROL BLANKETS:
- USE TEMPORARY EROSION CONTROL BLANKETS ON ALL SEEDED SLOPES GRADED AT 3H:1V OR STEEPER AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- SEEDING DATES: SEEDING DATES IN CONNECTICUT ARE NORMALLY APRIL 1 THROUGH JUNE 15 AND AUGUST 15 THROUGH OCTOBER 1, SEED GERMINATION NORMALLY CANNOT BE EXPECTED FROM NOVEMBER THROUGH FEBRUARY. IF ADEQUATE SEED GERMINATION IS NOT POSSIBLE DUE TO TIME OF YEAR CONSTRAINTS. MULCHING SHALL BE ADEQUATELY PROVIDED TO PROTECT THE SEED FROM WIND AND SURFACE EROSION UNTIL THE WEATHER IMPROVES AND THE SEEDING BECOMES WELL ESTABLISHED.

MAINTENANCE OF EROSION CONTROL DEVICES:

- INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE.
- REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF
- MAINTAIN THE HAY BALE BARRIER/SILT FENCE UNTIL THE CONTRIBUTING AREA IS STABILIZED.
- AFTER UPSLOPE AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE STAKES FROM HAY BALES; PULL UP FENCE SUPPORT POSTS AND CUT OFF GEOTEXTILE AT GROUND. UNLESS OTHERWISE REQUIRED, HAY BALES MAY BE LEFT IN PLACE OR BROKEN UP FOR GROUND COVER.
- ANY DISTURBED SOILS. CONSTRUCTION ENTRANCES AND ROADWAYS:
- MAINTAIN THE ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENTS ONTO PAVED SURFACES.
- PROVIDE PERIODIC TOP DRESSING AND ADDITIONAL STONE OR LENGTH AS NECESSARY
- SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY. EMPORARY SEDIMENT TRAP
- 1. INSPECTIONS SHALL BE AT SAME INTERVALS AS THE HAYBALE BARRIER/SILT FENCE INSPECTION SCHEDULE.
- OUTLET SHALL BE CHECKED FOR INTEGRITY; HEIGHT OF THE STONE OUTLET SHALL BE MAINTAINED AT ONE FOOT BELOW CREST OF EMBANKMENT. SEDIMENT ACCUMULATION AND FILTRATION PERFORMANCE SHOULD BE OBSERVED.
- WHEN SEDIMENTS HAVE ACCUMULATED TO ONE HALF OF THE MINIMUM REQUIRED STORAGE VOLUME, DE-WATER BASIN, REMOVE SEDIMENTS, RESTORE TRAP TO ORIGINAL DIMENSIONS AND DISPOSE OF SEDIMENT AT A LOCATION AND MANNER THAT WILL NOT RESULT IN EROSION OR SEDIMENTATION
- TEMPORARY DIVERSION DITCHES/SWALES:
- 1. WHEN THE TEMPORARY DIVERSION IS LOCATED IN CLOSE PROXIMITY TO ONGOING CONSTRUCTION ACTIVITIES, INSPECT AT THE END OF EACH DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE, INSPECT ON SAME INTERVAL AS THE TEMPORARY SEDIMENT TRAP.
- REPAIR THE DIVERSION WITHIN 24 HOURS OF ANY OBSERVED FAILURE. FAILURE HAS OCCURRED WHEN THE DIVERSION HAS BEEN DAMAGED SUCH THAT IT NO LONGER MEETS THE SPECIFICATIONS IN THE 2002 GUIDELINES.
- IF REPETITIVE FAILURES OCCUR, REVIEW CONDITIONS AND DETERMINE IF ADDITIONAL MEASURES OR AN ALTERNATIVE MEASURE IS NECESSARY. CONCRETE WASHOUT AREA
- WASHOUT AREA TO BE INSPECTED AT LEAST ONCE A WEEK FOR STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY AND CHECKED FOR LEAKS, TEARS, OR OVERFLOWS. CHECK AFTER HEAVY RAINS
- HARDENED CONCRETE WASTE SHOULD BE REMOVED AND DISPOSED OF WHEN THE WASTE HAS ACCUMULATED TO HALF OF THE CONCRETE WASHOUT'S DEPTH. THE WASTE CAN BE STORED AT AN UPLAND LOCATION, AS APPROVED BY ENGINEER. ALL CONCRETE WASTE SHALL BE DISPOSED OF IN A MANNER CONSISTENT WITH ALL APPLICABLE LAWS, REGULATIONS, AND GUIDELINES.



	Vd=DRY STORAGE =4.0' MAX	FLOW	2 OR FLATTER	PE
,	\bigtriangledown wet pool elev	1. /		
	Vw=WET STORAGE =3.0' MAX			
		1.5 OF	R FLATTER	

TEMPORARY SEDIMENT TRAP SHALL BE SIZED BASED ON A MINIMUM OF 134 CUBIC YARDS OF WATER STORAGE PER ACRE DRAINED, A MINIMUM WET STORAGE VOLUME EQUAL TO HALF OF THE TOTAL STORAGE VOLUME AND A MINIMUM DRY STORAGE VOLUME EQUAL TO HALF OF THE TOTAL STORAGE VOLUME.

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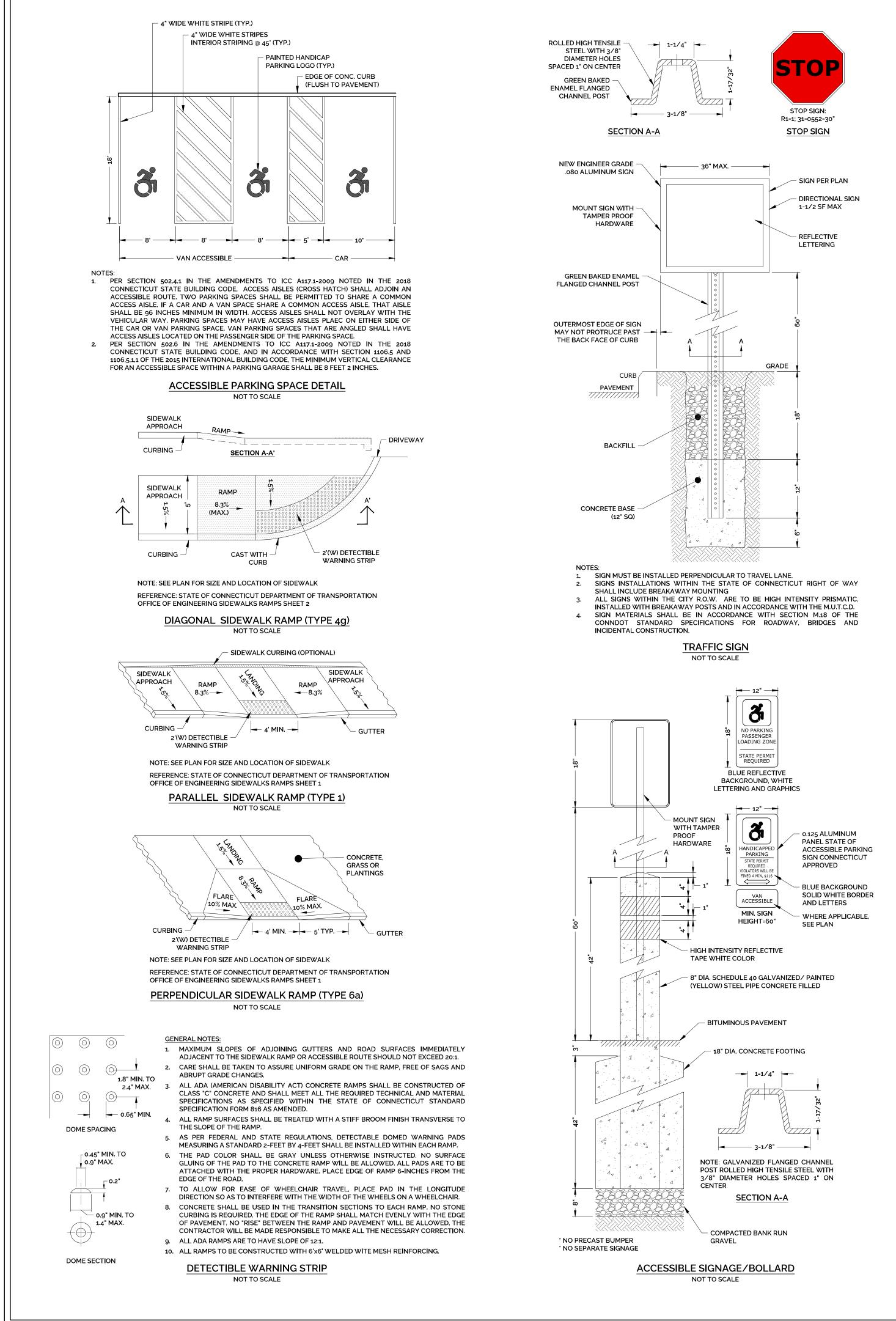
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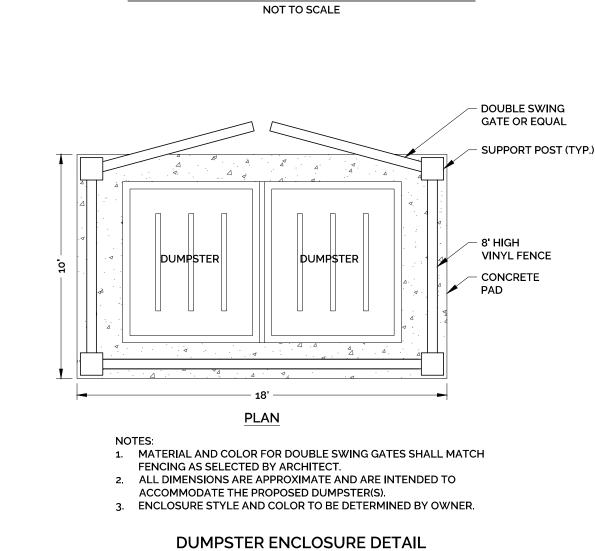
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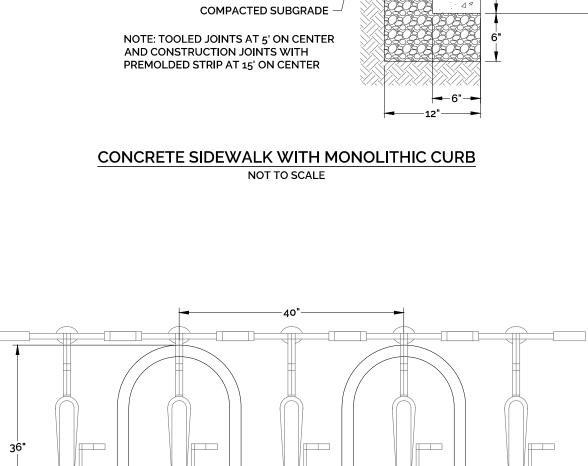
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NOT TO SCALE



6" SMOOTH FACE

- 1" RADIUS

^{6"} PAVEMENT FINISH GRADE

CONTINUOUS TOOLED JOINT -

WELDED WIRE FABRIC CLASS 'C' CONCRETE -

COMPACTED PROCESSED

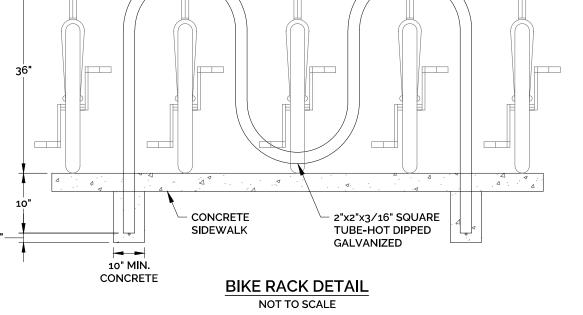
GRAVEL BASE

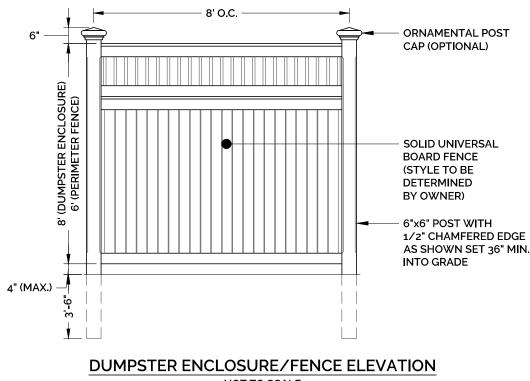
HAIR BROOM FINISH -

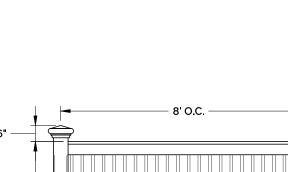
6x6-W1.4xW1.4 -

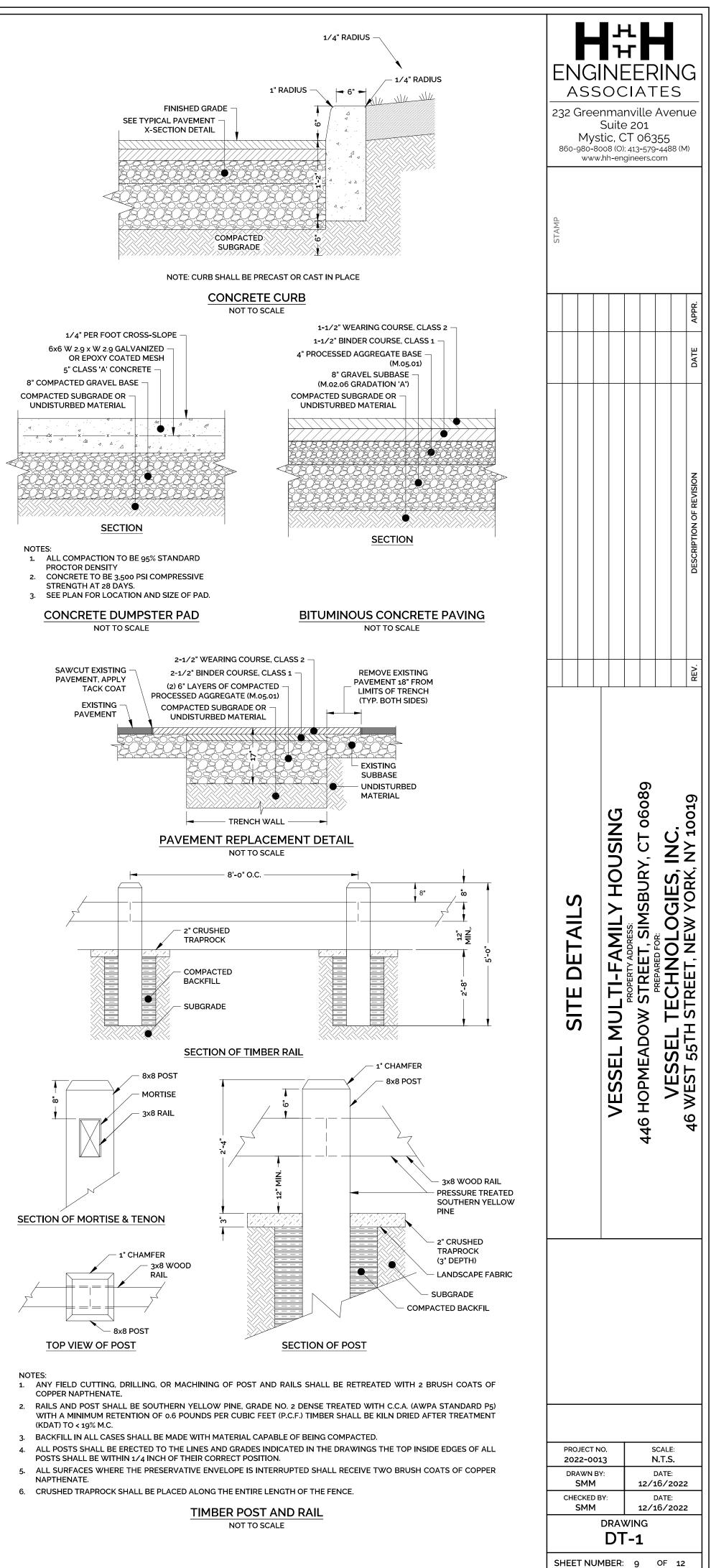
1/4"/FT — 🛏

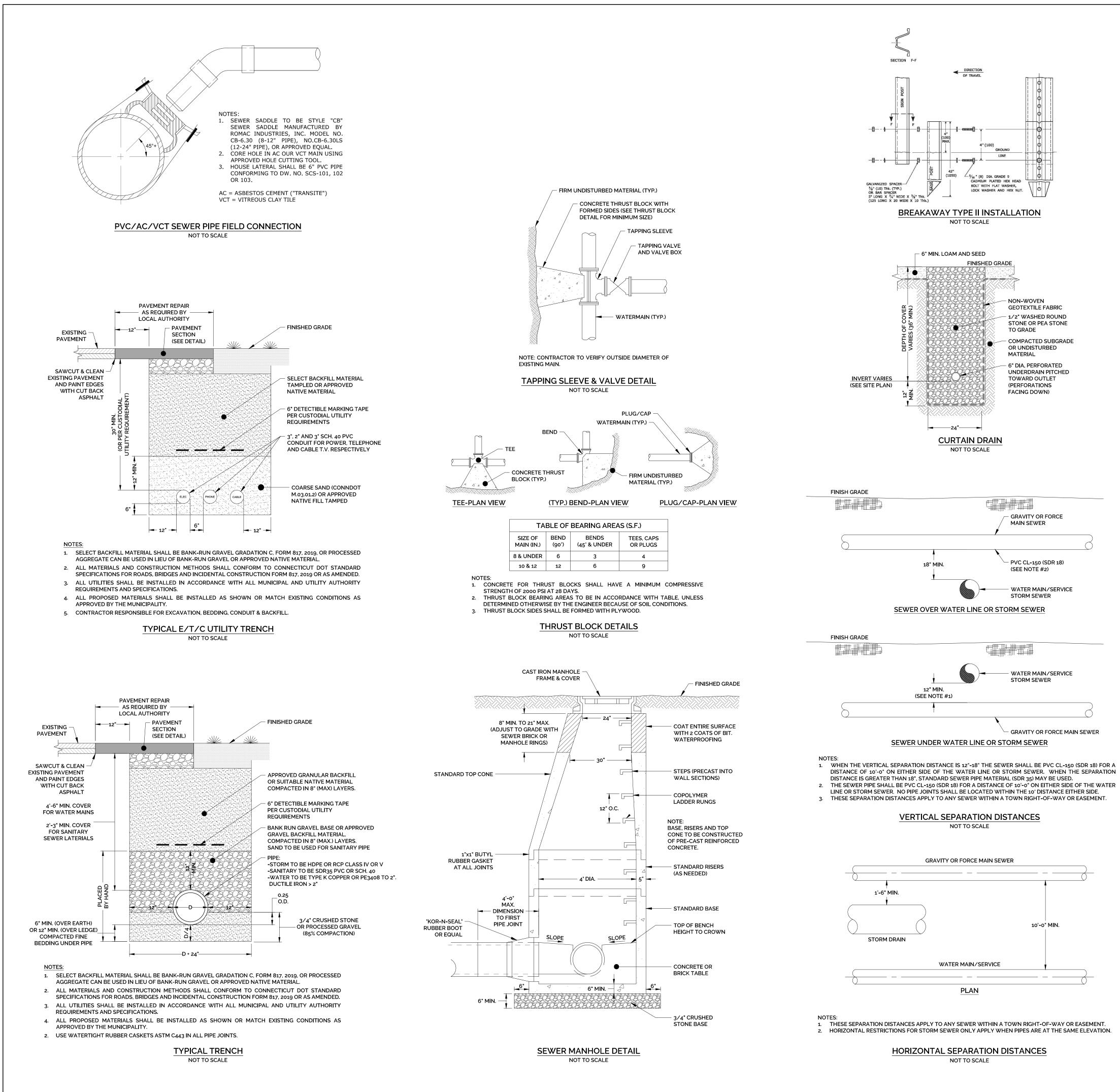
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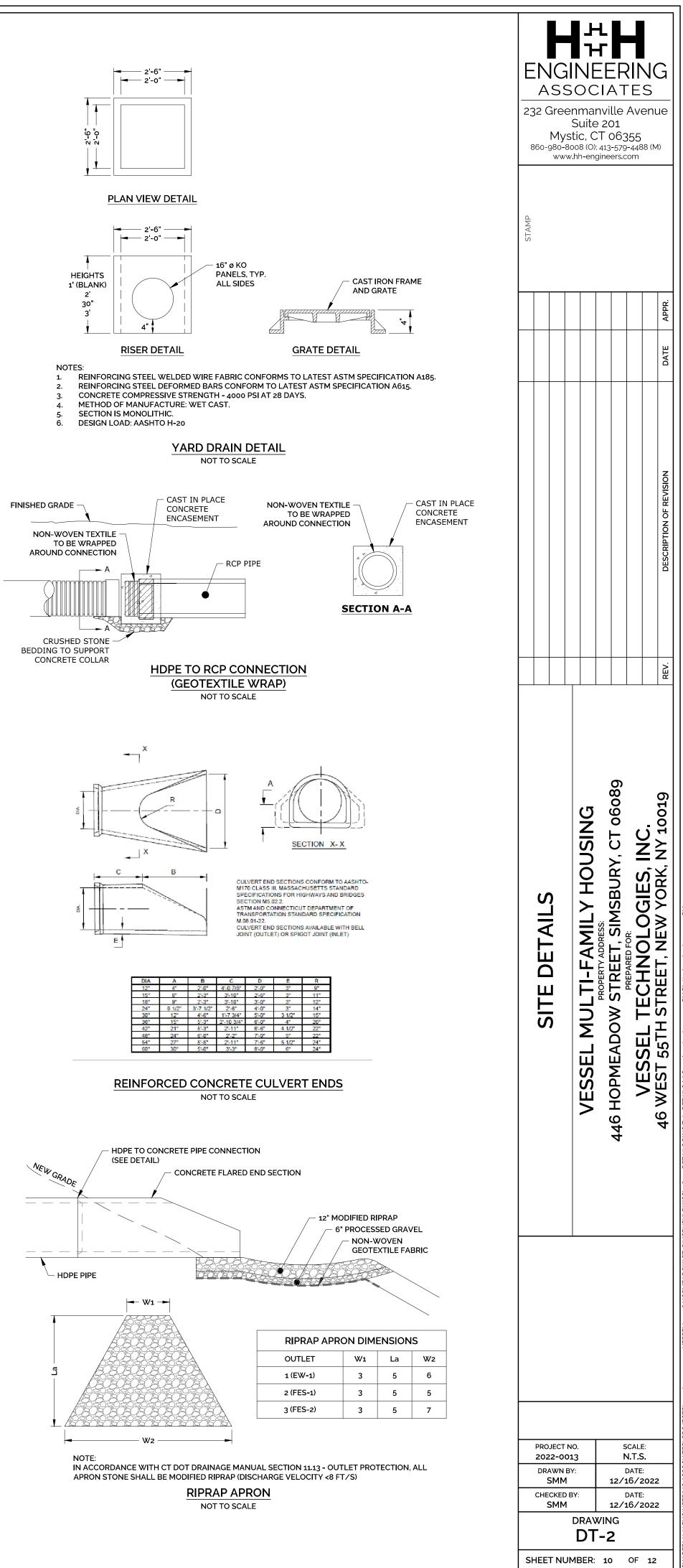


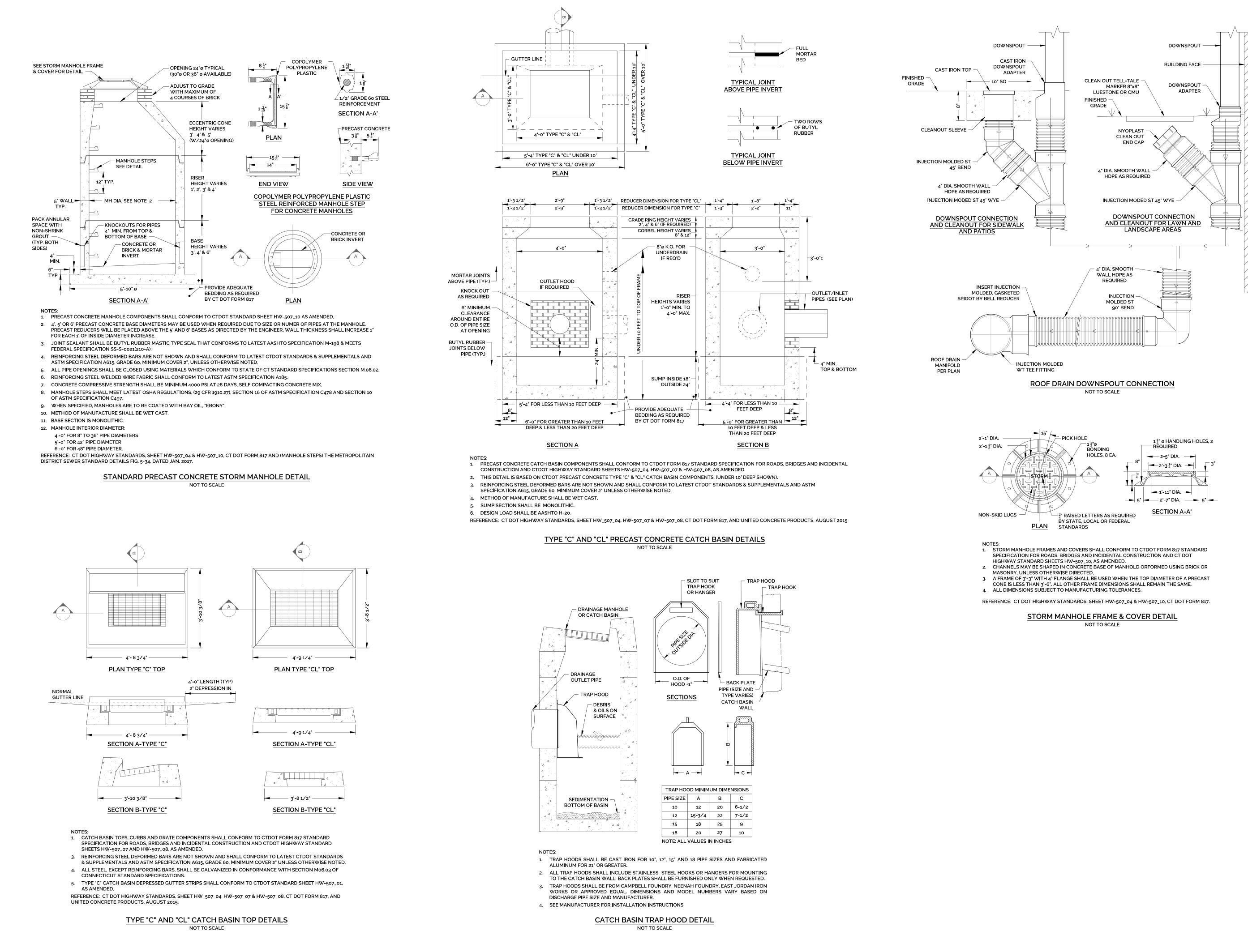




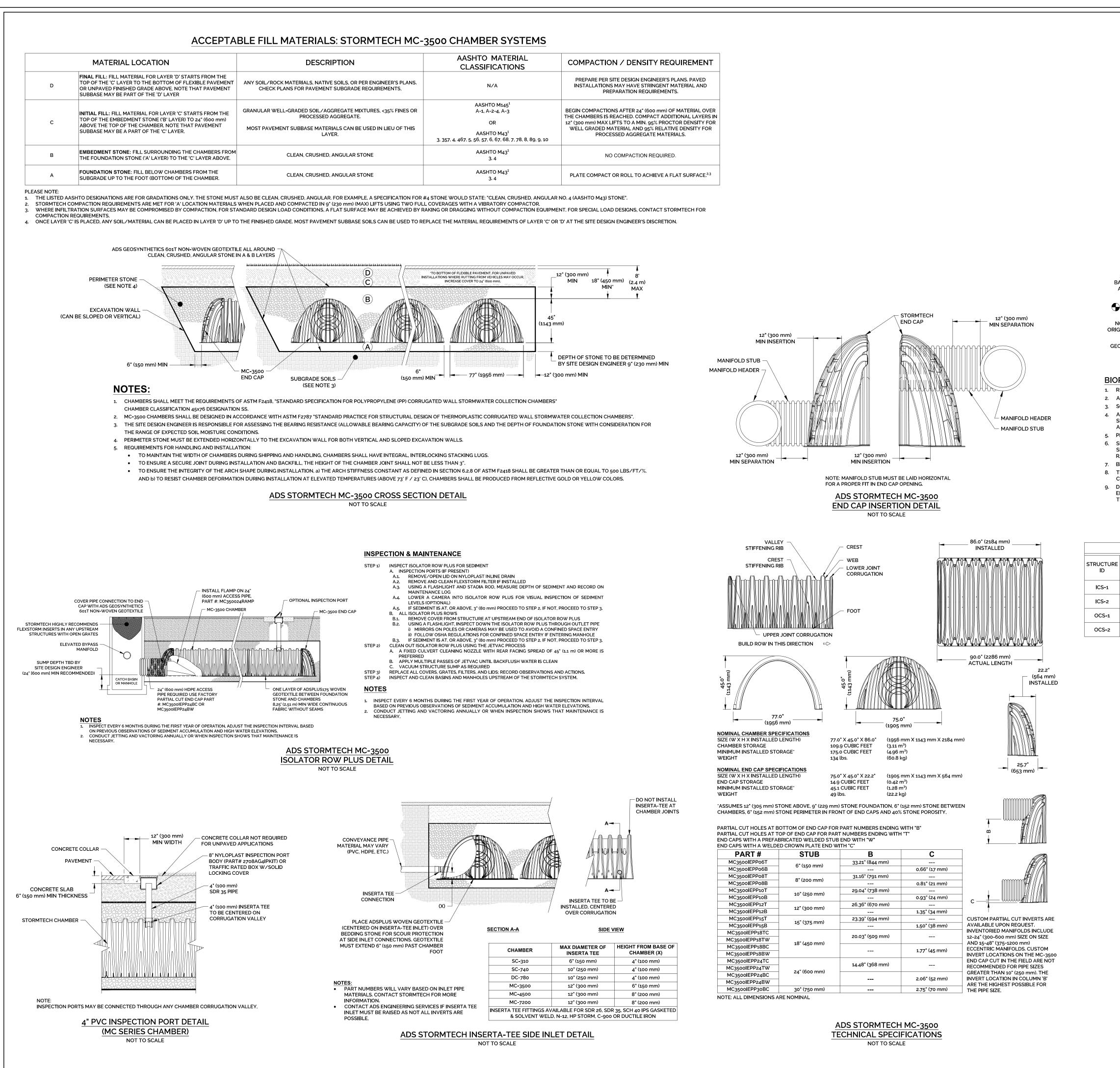


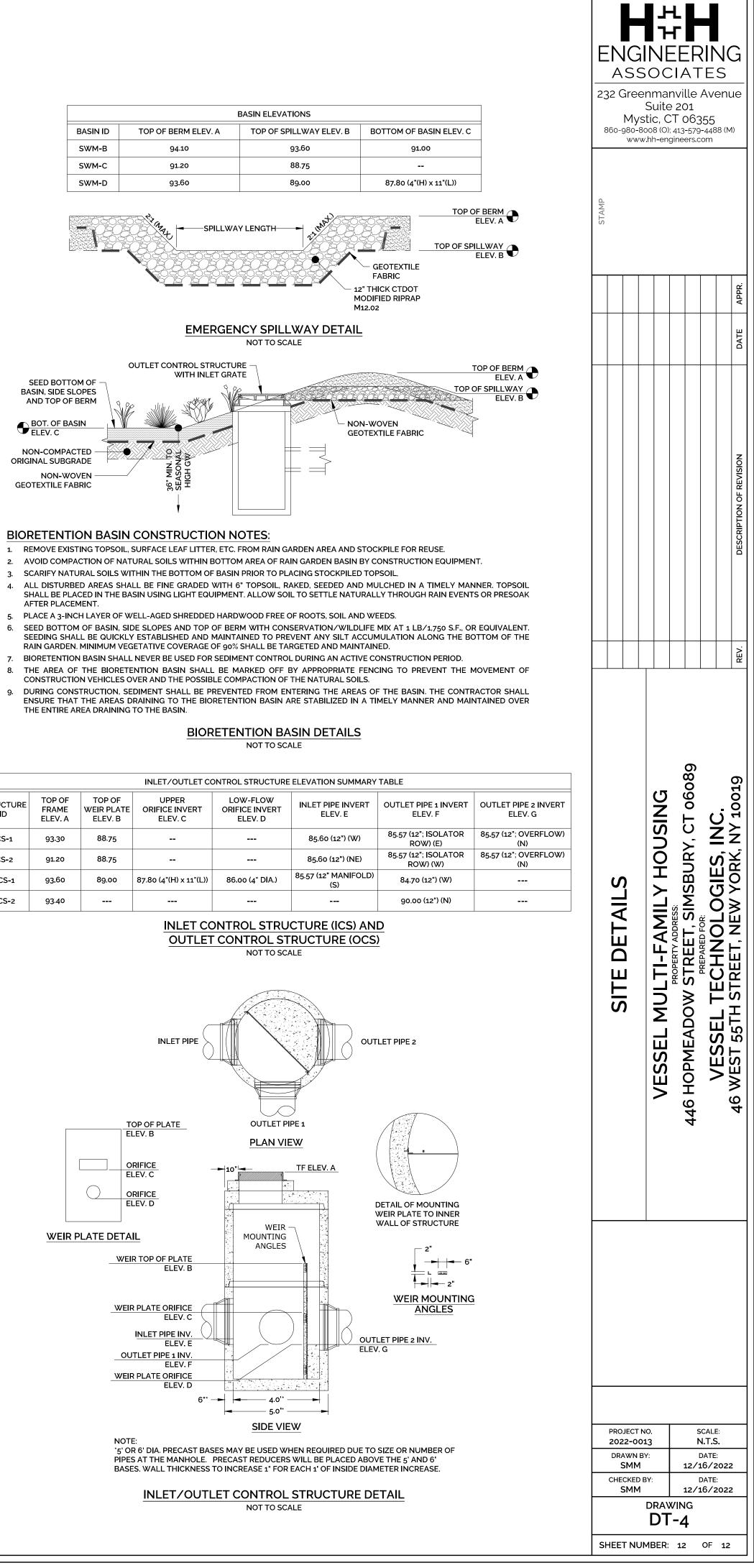






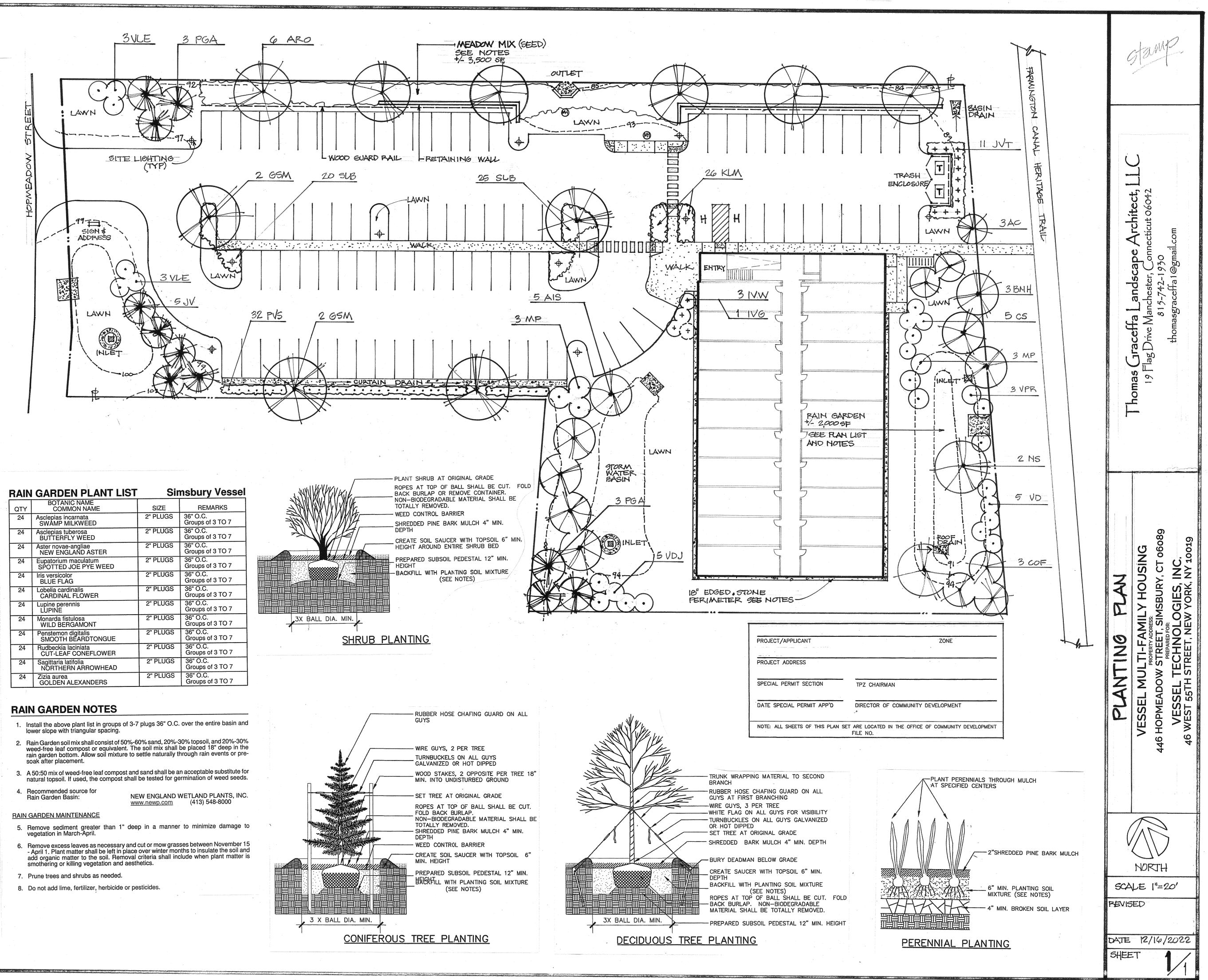
232 Gree Mys 860-980-8	INEERING SOCIATES enmanville Avenue Suite 201 stic, CT 06355 3008 (0); 413-579-4488 (M) w.hh-engineers.com
SITE DETAILS	VESSEL MULTI-FAMILY HOUSING PROPERTY ADDRESS: 446 HOPMEADOW STREET, SIMSBURY, CT 06089 PREPARED FOR: VESSEL TECHNOLOGIES, INC. 46 WEST 55TH STREET, NEW YORK, NY 10010
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KEY	QTY	BOTANIC NAME COMMON NAME	SIZE	REMARK
AC	3	Amelanchier canadensis SHADBLOW SERVICEBERRY	8'	MULTI-STE
AIS	5	Alnus incana rugosa SPECKLED ALDER	2" CAL	MULTI-STE
ARO	6	Acer rubrum 'October Glory' OCTOBER GLORY RED MAPLE	8'-10'	MULTI-STE
BNH	3	Betula nigra 'Heritage' HERITAGE RIVER BIRCH	10'-12'	3 STEM
COF	3	Cornus florida FLOWERING DOGWOOD	8'-10'	SINGLE STEM
CS	5	Cornus sericea RED TWIG DOGWOOD	3'-4'	
GSM	4	Gleditsia triacanthos 'Shademaster' SHADEMASTER HONEY LOCUST	21/2" CAL	6' TO FIRST BRANCH
IVG	1	llex verticulata 'Southern Gentleman' SOUTHERN GENTLEMAN WINTERBERRY	2'-3'	
IVW	3	Ilex verticulata 'Winter Red' WINTER RED WINTERBERRY	3'-4'	
JV	5	Juniperus virginiana EASTERN RED CEDAR	7' B&B	UNSHEARE
JVT	11	Juniperus virginiana 'Taylor' TAYLOR RED CEDAR	4'	4' O.C.
KLM	26	Kalmia multifolia 'Minuet' MINUET MOUNTAIN LAUREL	#4	3' O.C.
MP	6	Myrica pensylvanica BAYBERRY	36"	
NS	2	Nyssa sylvatica BLACK GUM	2" CAL	
PGA	6	Picea glauca WHITE SPRUCE	7' B&B	UNSHEARE
PVS	32	Panicum virgatum 'Shenandoah' SHENANDOHA SWITCH GRASS	2 GAL	4' O.C.
SLB	45	Schizachyrium scoparium LITTLE BLUESTEM	2 GAL	3' O.C.
VD	5	Viburnum dentatum ARROWWOOD VIBURNUM	3'	
VDJ	5	Viburnum dentatum 'Autumn Jazz' AUTUMN JAZZ VIBURNUM	3'	
VLE	6	Viburnum lentago NANNYBERRY VIBURNUM	4'	
VPR	3	Viburnum prunifolium BLACK HAW VIBURNUM	4'	



PLANTING NOTES

Simsbury Vessel

- 1. LANDSCAPE CONTRACTOR (Contractor) shall visit site, inspect existing conditions, and review proposed planting and related work. In case of discrepancy between plan and plant list, plan shall govern quantities. Contractor is responsible for application and cost of all necessary buildling permits and code verifications. Submit copies of all documents to owner and landscape architect.
- 2. Plants shall be handled at all times with the best horticultural practices. Plants in leaf shall be sprayed with anti-desiccant before digging. Plants shall be dug with firm natural balls and shall conform to the ratios and sizes specified in ANSI Z60.1. B&B plants shall be wrapped in burlap and tied firmly. Plant materials shall be delivered immediately prior to placement, shall be kept moist, and shall be protected from sun and wind. Plants having broken or cracked balls prior to or during planting will not be accepted.
- 3. The period for planting shall be from March 15 to May 15 and from September 15 to November 15, weather permitting. Contractor to set plants out in field for approval of locations by Landscape Architect prior to planting.
- 4. All tree and shrub pits shall be at least 2 feet wider and 1 foot deeper than the tree or shrub root ball to be planted in it. Backfill shall be high quality loam of the proper pH and organic content suitable for the healthy growth of plant materials. Shade trees shall be a branching height of five feet (5') minimum.
- 5. A 50:50 mix of weed-free leaf compost and sand shall be an acceptable substitute for natural topsoil. If used, the compost shall be tested for germination of weed seeds. All planting beds and pits to receive approved mulch to depths indicated in planting details
- 6. Spade edge all planting beds within lawn areas. Provide clean spaded edge at perimeter of all planting beds and tree pits adjacent to lawn areas. Spade edge of newly planted lawn areas following second mowing.
- 7. All areas to be mulched with wood/bark mix shall receive 4 inches minimum depth mulch within 48 hours of planting unless otherwise noted in planting details. Keep mulch from contact with tree trunks. Areas to be mulched in stone (3/4"-11/2") shall receive 3" depth washed stone over soil separator blanket. Use Dimex 1262/Black edging or equal. Spike with Dimex 19895/Gray 10".
- 8. All disturbed areas not covered by buildings, paving or planting shall be seeded lawn. New lawn areas shall receive a minimum of 6 inches topsoil of the proper pH and organic content suitable for the healthy growth of lawns. Contractor will be responsible for mowing and watering during the guarantee period.

All new lawn areas shall receive a minimum of 6 inches topsoil of proper pH and organic content suitable for the healthy growth of lawns. These areas shall be seeded with: HART'S (S)LOW GROWTH SEED MIX containing Coated 40% Spartan II Hard Fescue, Coated 40% Nakiska Sheep Fescue, Uncoated 20% Azure Blue Sheep Fescue, applied at 6#/per 1000 SF.Contractor is responsible for finish grading, fertilizing, seeding and apply clean straw mulch. Lawn areas guaranteed for 60 days, or second cutting, whichever is later.

- 9. In order to insure proper function of the storm water quality sytems, the Site Contractor shall make provisions to avoid over-compacting the existing soils in the area of the proposed rain garden and perforated storm water drains.
- 10. Landscape Contractor shall guarantee all plant material for one (1) full year from date of acceptance. Proper landscape maintenance shall be the responsibility of the owner.
- 11. All locations of exiting utilities may not be shown on this plan. See other plan sheets for utility locations. Contractor shall be solely responsible for determining actual locations of existing utilities. Contractor shall be responsible for repair of any utilities damaged during construction. Contact 'Call Before You Dig' 1-800-922-4455 www.cbyd.com two working days before starting construction to locate utilities.
- 12. "Meadow Mix" for north property line area (see plan) shall be: New England Showy Wildflower Mix provided by New England Wet Land Plants, Inc. <u>www.newp.com</u> (415) 548-8000 Application rate 1,900 SF/Lb. Provide straw cover after seeding.

RAIN GARDEN PLANT LIST

QTY 24 24 Iris versicolor 24 Lobelia cardinalis 24 Lupine perennis LUPINE 24 Monarda fistulosa WILD BERGAMONT 24 Penstemon digitalis SMOOTH BEARDTONGUE 24 Rudbeckia laciniata

RAIN GARDEN NOTES

- soak after placement.

RAIN GARDEN MAINTENANCE

- 7. Prune trees and shrubs as needed.
- Do not add lime, fertilizer, herbicide or pesticides.