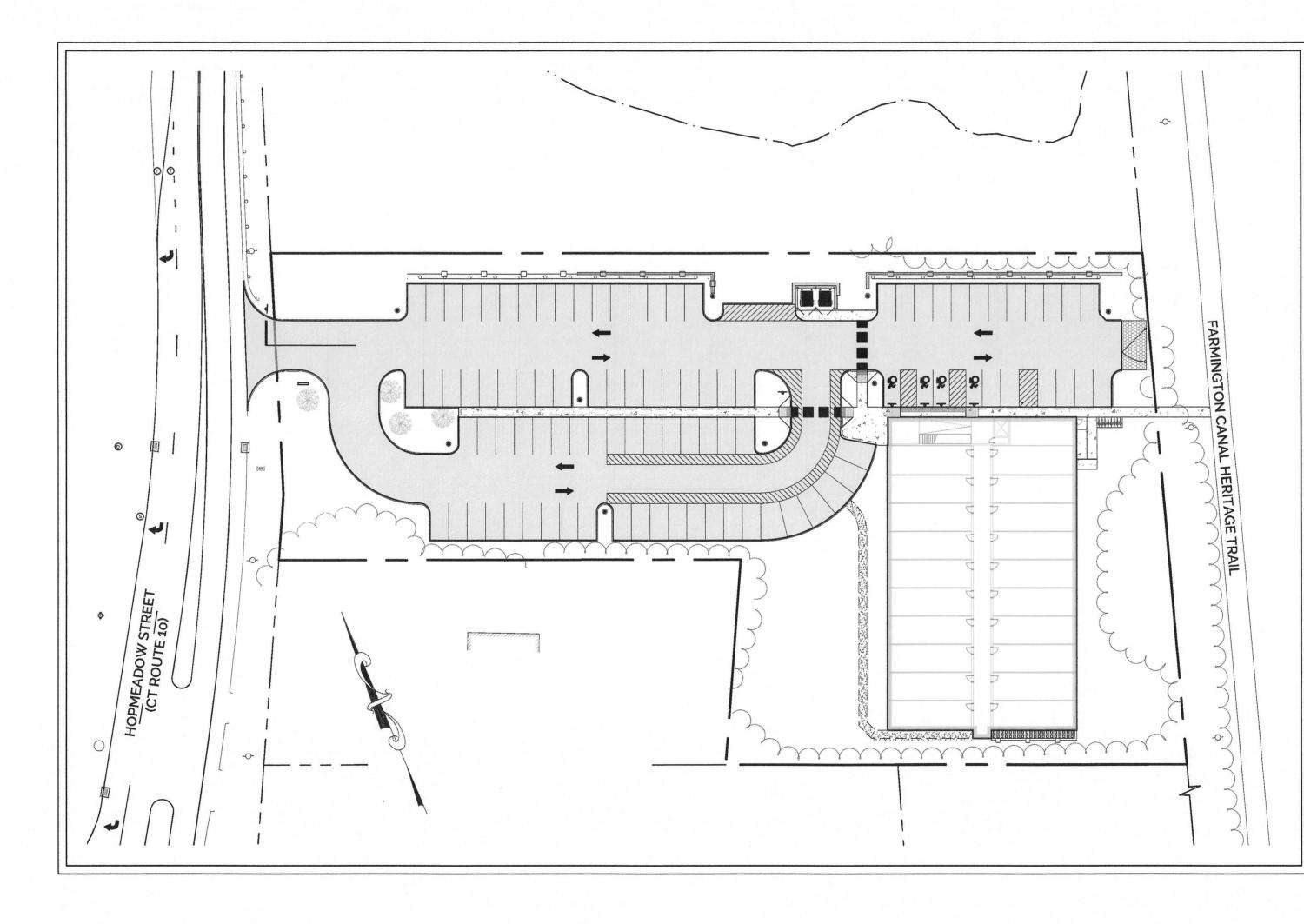
SITE DEVELOPMENT PLANS **VESSEL MULTI-FAMILY HOUSING** 446 HOPMEADOW STREET, SIMSBURY, CT 06089 PREPARED FOR: VESSEL RE HOLDINGS, LLC



APPLICANT: VESSEL RE HOLDINGS, LLC 46 WEST 55TH STREET NEW YORK, NY 10019

EGEND

PROPERTY LINE	Contraction
ADJOINER PROPERTY LINE	-
BUILDING SETBACK LINE	
ZONE LINE	-
WATERCOURSE	-
INLAND WETLAND	
100' INLAND WETLAND UPLAND REVIEW AREA	
TREELINE	. (
BRUSHLINE	.0
GUIDERAIL	٥σ
CHAINLINK FENCE	
EX. INDEX CONTOUR	anala na
EX. INT. CONTOUR	
PR. INDEX CONTOUR	-
PR. INT. CONTOUR	
PR, SPOT GRADE	
PR, SWALE	
OVERHEAD ELECTRIC	
UNDERGROUND ELECTRIC	-
UNDERGROUND ELECTRIC, TELEPHONE, CABLE	
SANITARY SEWER LINE	
STORM PIPE	
TELEPHONE LINE	
WATER LINE	
DOMESTIC WATER LINE	
FIRE PROTECTION LINE	-
SILT FENCE	_
HAYBALES	
TOP OF WALL	
BOTTOM OF WALL	
TOP OF CURB	
BOTTOM OF CURB	
UTILITY POLE	
IRON PIPE/IRON ROD	
BORING HOLES	
TEST HOLES	

OPERTY LINE	
ETBACK LINE	
ZONE LINE	
ATERCOURSE	
ND WETLAND	-
ND WETLAND REVIEW AREA	
TREELINE	
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SEWER LINE	SAN
STORM PIPE	
EPHONE LINE	TEL
WATER LINE	
WATER LINE	DW
TECTION LINE	FP
SILT FENCE	SF
HAYBALES	
TOP OF WALL	TW
TOM OF WALL	BW
TOP OF CURB	ТС
TOM OF CURB	BC
UTILITY POLE	0
PE/IRON ROD	IP
ORING HOLES	B-2
TEST HOLES	TP-1

DATE: DECEMBER 16, 2022 REVISED: FEBRUARY 24, 2023 REVISED: MARCH 17, 2023

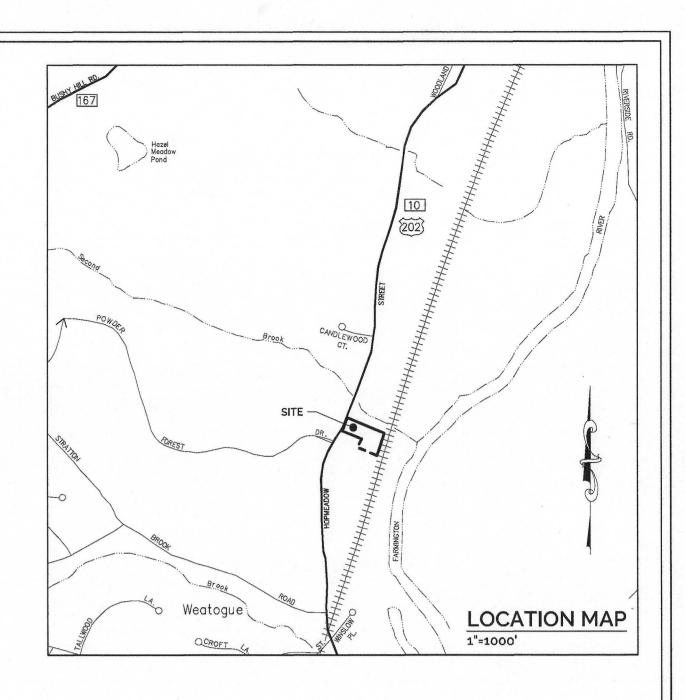
PROPERTY OWNER:

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:

LAND SURVEYOR: THOMAS GRACEFFA LANDSCAPE ARCHITECT, LLC ROB HELLSTROM LAND SURVEYING LLC 32 MAIN STREET **19 FLAG DRIVE** MANCHESTER, CT 06040 HEBRON, CT 06248



DWG NO.	TITLE	SHEET NO.
XD-1	EXISTING CONDITIONS & DEMOLITION PLAN	1
SL-1	SITE LAYOUT PLAN	2
GD-1	GRADING & DRAINAGE PLAN	3
UT-1	UTILITIES PLAN	4
SE-1	SOIL EROSION & SEDIMENT CONTROL PLAN	5
SPP-1	SITE PHOTOMETRIC PLAN	6
ST-1	SIGHTLINE DEMONSTRATION PLAN	7
SEN-1	SOIL EROSION & SEDIMENT CONTROL NARRATIVE AND DETAILS	8
DT-1	SITE DETAILS	9
DT-2	SITE DETAILS	10
DT-3	DRAINAGE DETAILS	11
DT-4	UTILITY DETAILS	12
DT-5	STORMWATER MANAGEMENT DETAILS	13
	PLANTING PLAN (BY OTHERS)	1 of 1



PREPARED BY:

ПнП

ENGINEERING

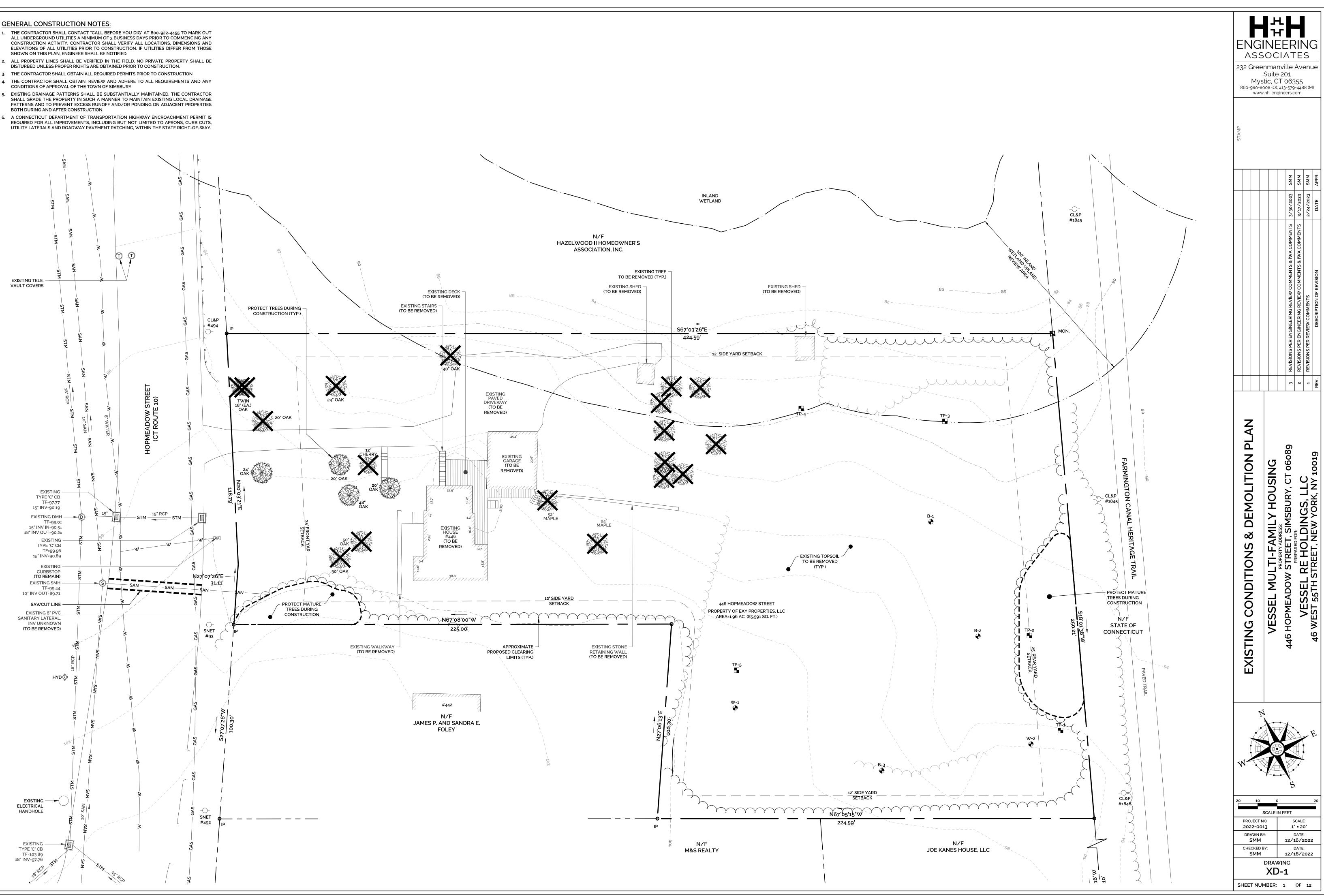
ASSOCIATES

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



- SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.

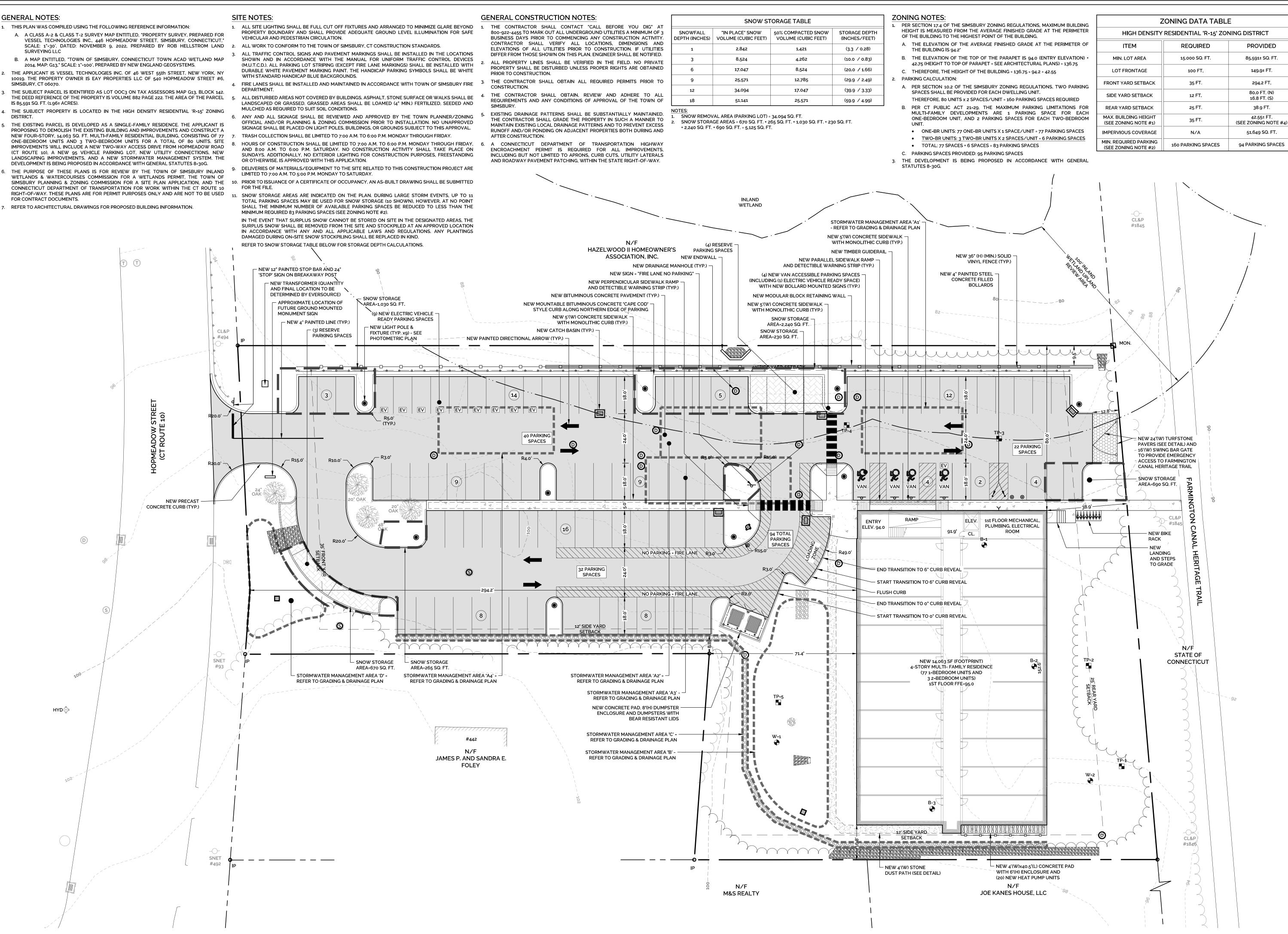
- CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- BOTH DURING AND AFTER CONSTRUCTION.
- UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY.



GENERAL NOTES:

- SURVEYING LLC
- THE APPLICANT IS VESSEL TECHNOLOGIES INC. OF 46 WEST 55th STREET, NEW YORK, NY 10019. THE PROPERTY OWNER IS EAY PROPERTIES LLC OF 540 HOPMEADOW STREET #6,
- 3. THE SUBJECT PARCEL IS IDENTIFIED AS LOT OOC3 ON TAX ASSESSORS MAP G13, BLOCK 142.
- 4. THE SUBJECT PROPERTY IS LOCATED IN THE HIGH DENSITY RESIDENTIAL 'R-15' ZONING DISTRICT.
- THE EXISTING PARCEL IS DEVELOPED AS A SINGLE-FAMILY RESIDENCE. THE APPLICANT IS PROPOSING TO DEMOLISH THE EXISTING BUILDING AND IMPROVEMENTS AND CONSTRUCT A NEW FOUR-STORY, 14,063 SQ. FT. MULTI-FAMILY RESIDENTIAL BUILDING, CONSISTING OF 77 7. 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 95 VEHICLE PARKING LOT, NEW UTILITY CONNECTIONS, NEW LANDSCAPING IMPROVEMENTS, AND A NEW STORMWATER MANAGEMENT SYSTEM. THE
- WETLANDS & WATERCOURSES COMMISSION FOR A WETLANDS PERMIT, THE TOWN OF CONNECTICUT DEPARTMENT OF TRANSPORTATION FOR WORK WITHIN THE CT ROUTE 10 FOR CONTRACT DOCUMENTS.
- 7. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED BUILDING INFORMATION.

- WITH STANDARD HANDICAP BLUE BACKGROUNDS.
- DEPARTMENT
- MULCHED AS REQUIRED TO SUIT SOIL CONDITIONS.
- TRASH COLLECTION SHALL BE LIMITED TO 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY.
- OR OTHERWISE, IS APPROVED WITH THIS APPLICATION.
- MINIMUM REQUIRED 83 PARKING SPACES (SEE ZONING NOTE #2).



Z	ZONING DATA TABLI	E
HIGH DENSITY	RESIDENTIAL 'R-15' ZON	NING DISTRICT
ITEM	REQUIRED	PROVIDED
MIN. LOT AREA	15,000 SQ. FT.	85.591± SQ. FT.
LOT FRONTAGE	100 FT.	149.9± FT.
FRONT YARD SETBACK	35 FT.	294.2 FT.
SIDE YARD SETBACK	12 FT.	80.0 FT. (N) 16.8 FT. (S)
REAR YARD SETBACK	25 FT.	38.9 FT.
MAX. BUILDING HEIGHT (SEE ZONING NOTE #1)	35 FT.	42.55± FT. (SEE ZONING NOTE #4)
IMPERVIOUS COVERAGE	N/A	51,649 SQ. FT.
MIN. REQUIRED PARKING (SEE ZONING NOTE #2)	160 PARKING SPACES	94 PARKING SPACES

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STAMP									
						3/30/2023 SMM	3/17/2023 SMM	2/24/2023 SMM	DATE APPR.
						REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS	REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS	REVISIONS PER REVIEW COMMENTS	DESCRIPTION OF REVISION
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	SITE I AVOUT DI AN			VESSEL MULTI-FAMILY HOUSING		446 HOPMEADOW STREET, SIMSBURY, CT 06089			46 WEST 55TH STREET, NEW YORK, NY 10019
					PROPERTY ADDRESS:	446 HOPMEADOW STREET, SIMSBURY, CT 06089			A 46 WESI 55 IH SI KEEI, NEW YORK, NY 10019

DRAWING SL-1

SHEET NUMBER: 2 OF 12

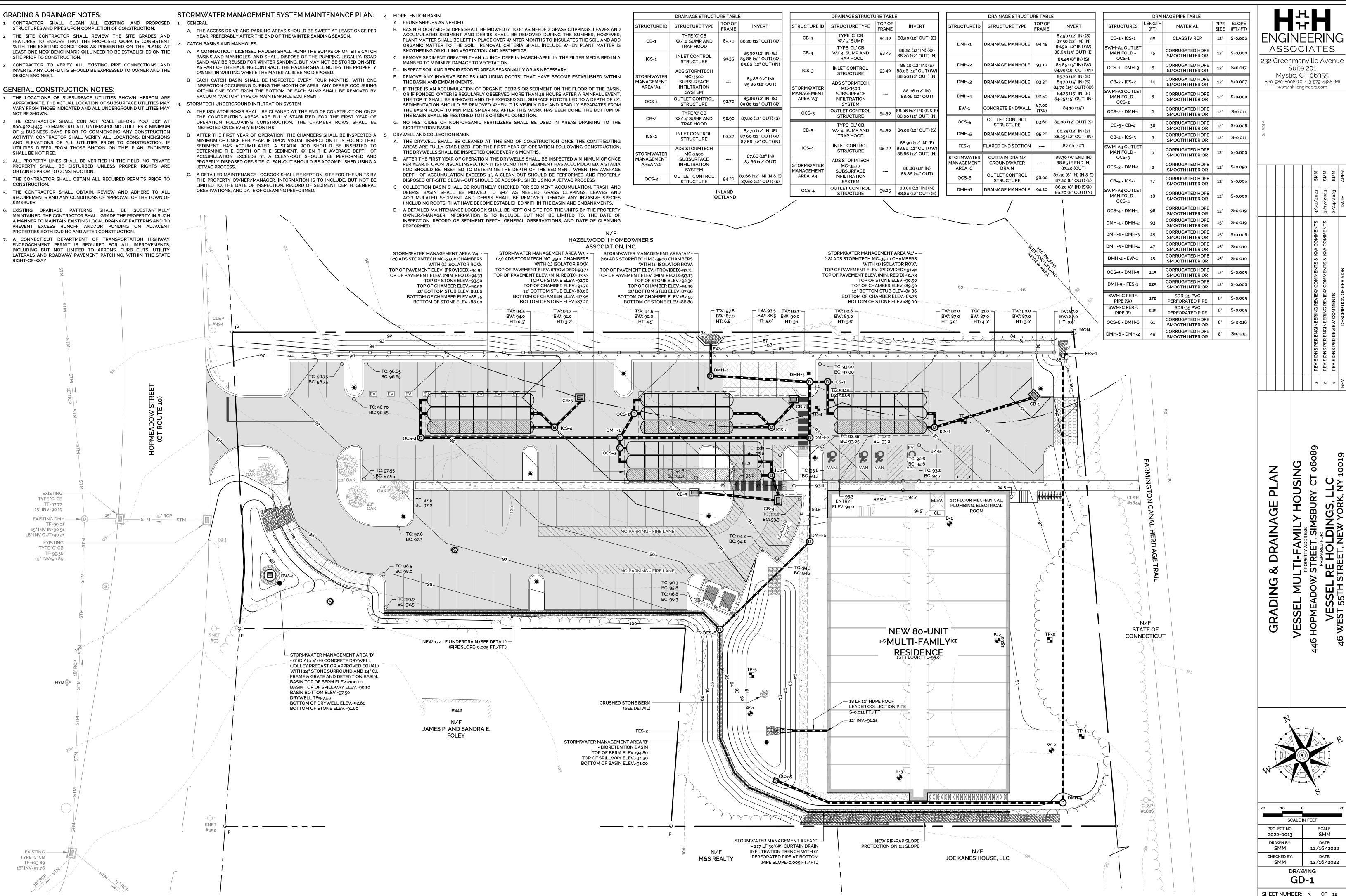
GRADING & DRAINAGE NOTES:

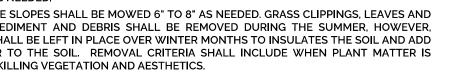
- STRUCTURES AND PIPES UPON COMPLETION OF CONSTRUCTION.
- FEATURES TO ENSURE THAT THE PROPOSED WORK IS CONSISTENT SITE PRIOR TO CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL EXISTING PIPE CONNECTIONS AND

- THE LOCATIONS OF SUBSURFACE UTILITIES SHOWN HEREON ARE VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN
- AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
- OBTAINED PRIOR TO CONSTRUCTION.
- CONSTRUCTION.
- THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF
- 6. EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT
- ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY

- YEAR, PREFERABLY AFTER THE END OF THE WINTER SANDING SEASON.
- BASINS AND MANHOLES, AND SHALL DISPOSE OF THE PUMPING LEGALLY, ROAD SAND MAY BE REUSED FOR WINTER SANDING, BUT MAY NOT BE STORED ON-SITE. AS PART OF THE HAULING CONTRACT, THE HAULER SHALL NOTIFY THE PROPERTY OWNER IN WRITING WHERE THE MATERIAL IS BEING DISPOSED.
- INSPECTION OCCURRING DURING THE MONTH OF APRIL. ANY DEBRIS OCCURRING WITHIN ONE FOOT FROM THE BOTTOM OF EACH SUMP SHALL BE REMOVED BY VACUUM "VACTOR" TYPE OF MAINTENANCE EQUIPMENT.
- THE ISOLATOR ROWS SHALL BE CLEANED AT THE END OF CONSTRUCTION ONCE THE CONTRIBUTING AREAS ARE FULLY STABILIZED. FOR THE FIRST YEAR OF OPERATION FOLLOWING CONSTRUCTION, THE CHAMBER ROWS SHALL BE 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 ACCUMULATION EXCEEDS 3", A CLEAN-OUT SHOULD BE PERFORMED AND PROPERLY DISPOSED OFF-SITE. CLEAN-OUT SHOULD BE ACCOMPLISHED USING A JETVAC PROCESS.
- THE PROPERTY OWNER/MANAGER. INFORMATION IS TO INCLUDE, BUT NOT BE LIMITED TO. THE DATE OF INSPECTION, RECORD OF SEDIMENT DEPTH, GENERAL OBSERVATIONS, AND DATE OF CLEANING PERFORMED

- PERFORMED.





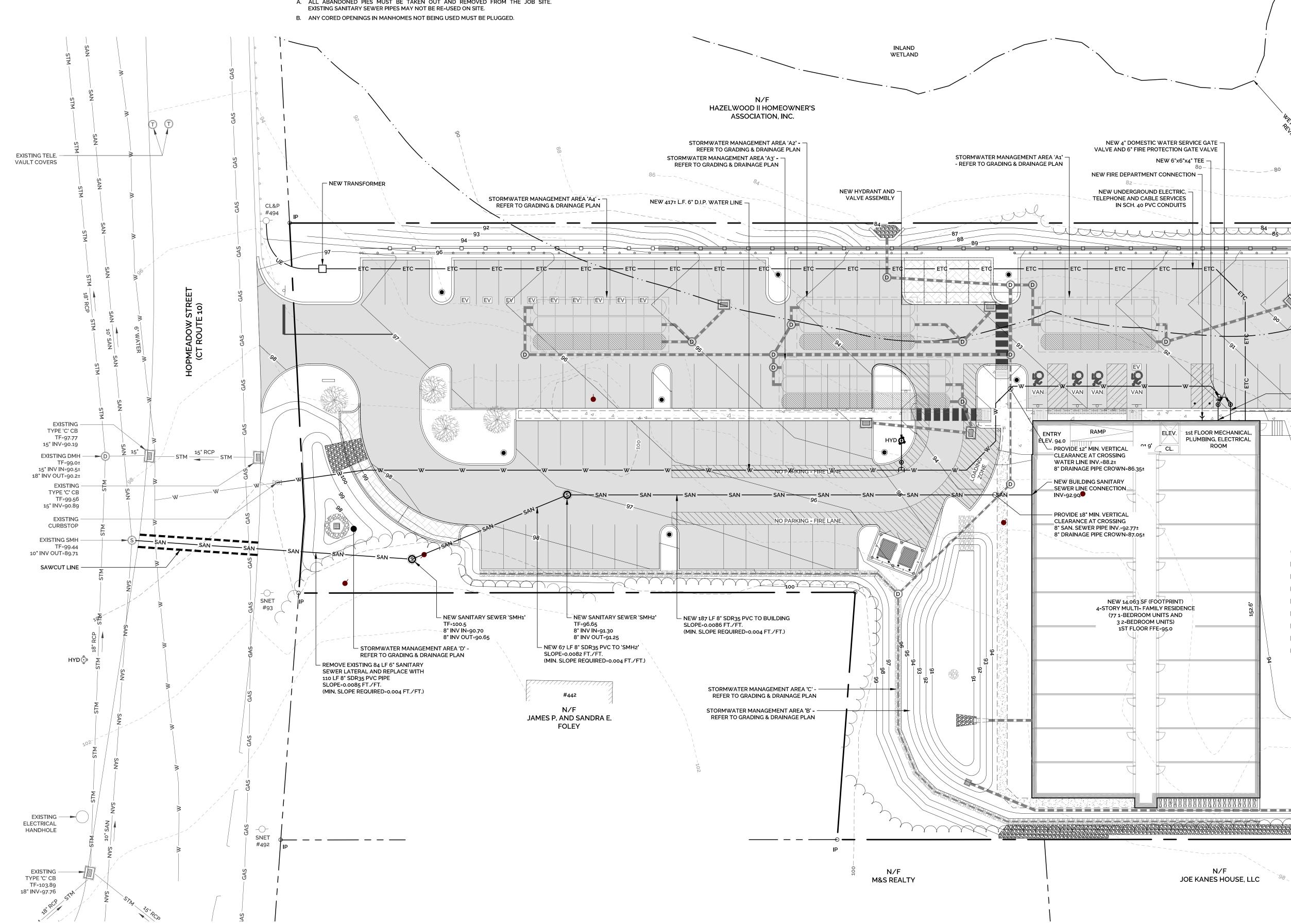
	DRAINAGE STRUCT	JRE TABL	E
STRUCTURE ID	STRUCTURE TYPE	TOP OF FRAME	INVERT
CB-1	TYPE 'C' CB W/ 4' SUMP AND TRAP HOOD	89.70	86.20 (12" OUT) (W)
ICS-1	INLET CONTROL STRUCTURE	91.35	85.90 (12" IN) (E) 85.86 (12" OUT) (W) 85.86 (12" OUT) (N)
STORMWATER MANAGEMENT AREA 'A1'	ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM		85.86 (12" IN) 85.86 (12" OUT)
OCS-1	OUTLET CONTROL STRUCTURE	92.70	85.86 (12" IN) (S) 85.80 (12" OUT) (W)
CB-2	TYPE 'C' CB W/ 4' SUMP AND TRAP HOOD	92.90	87.80 (12" OUT) (S)
ICS-2	INLET CONTROL STRUCTURE	93.30	87.70 (12" IN) (E) 87.66 (12" OUT) (W) 87.66 (12" OUT) (N)
STORMWATER MANAGEMENT AREA 'A2'	ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM		87.66 (12" IN) 87.66 (12" OUT)
OCS-2	OUTLET CONTROL STRUCTURE	94.20	87.66 (12" IN) (N & E 87.60 (12" OUT) (S)
003-2			

	DRAINAGE STRUCTU		E
STRUCTURE ID	STRUCTURE TYPE	TOP OF FRAME	INVERT
CB-3	TYPE 'C' CB W/ 2' SUMP	94.40	88.50 (12" OUT) (E)
CB-4	TYPE 'CL' CB W∕ 4' SUMP AND TRAP HOOD	93.25	88.20 (12" IN) (W) 88.20 (12" OUT) (N)
ICS-3	INLET CONTROL STRUCTURE	93.40	88.10 (12" IN) (S) 88.06 (12" OUT) (W) 88.06 (12" OUT) (N)
STORMWATER MANAGEMENT AREA 'A3'	ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM		88.06 (12" IN) 88.06 (12" OUT)
OCS-3	OUTLET CONTROL STRUCTURE	94.50	88.06 (12" IN) (S & E) 88.00 (12" OUT) (N)
CB-5	TYPE 'CL' CB W∕ 4' SUMP AND TRAP HOOD	94.50	89.00 (12" OUT) (S)
ICS-4	INLET CONTROL STRUCTURE	95.00	88.90 (12" IN) (E) 88.86 (12" OUT) (W) 88.86 (12" OUT) (N)
STORMWATER MANAGEMENT AREA 'A4'	ADS STORMTECH MC-3500 SUBSURFACE INFILTRATION SYSTEM		88.86 (12" IN) 88.86 (12" OUT)
OCS-4	OUTLET CONTROL STRUCTURE	96.25	88.86 (12" IN) (N) 88.80 (12" OUT) (E)

UTILITY NOTES:

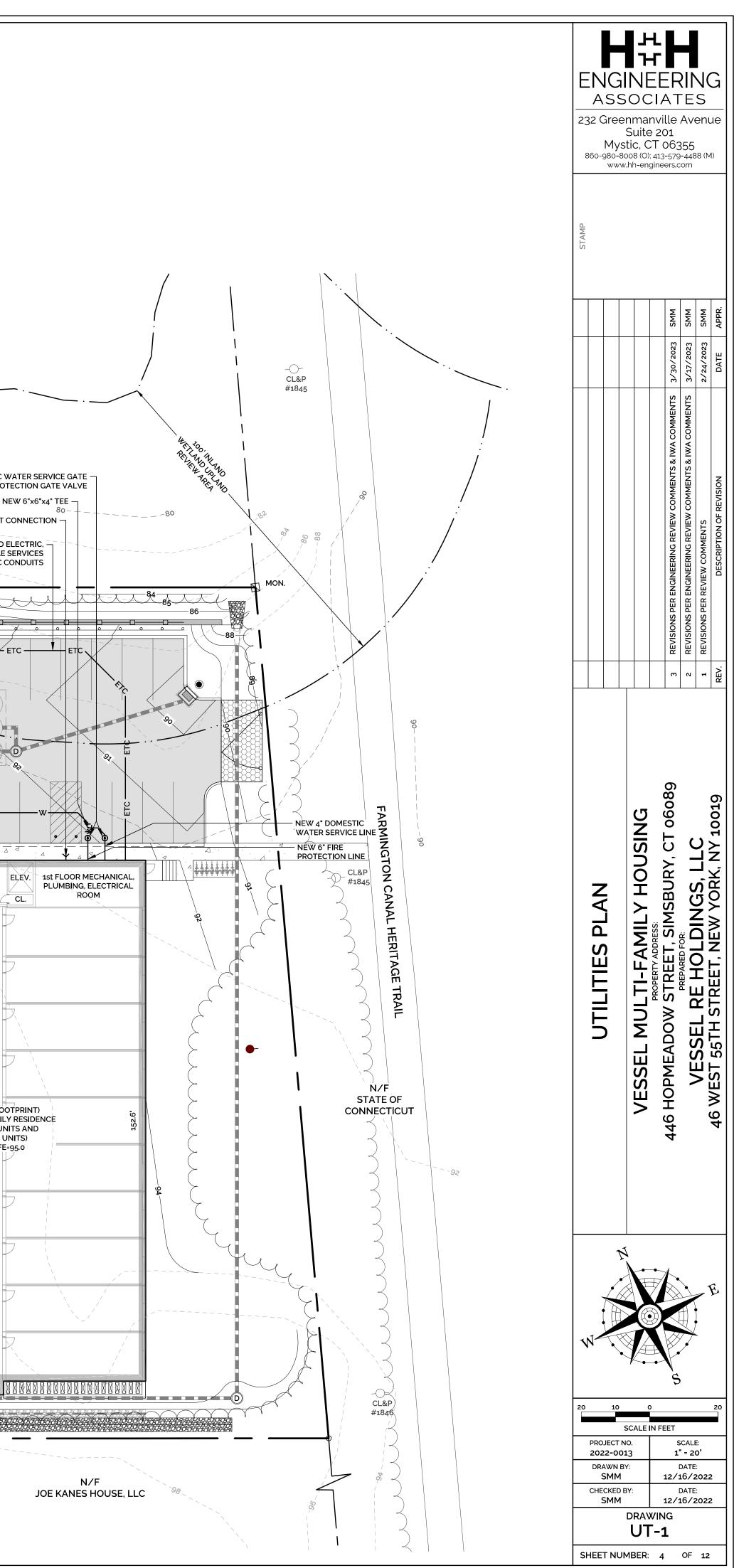
- 1. ALL NEW UTILITIES, INCLUDING CATV, WILL BE LOCATED UNDERGROUND.
- 2. ALL UTILITY WORK TO CONFORM TO TOWN OF SIMSBURY STANDARDS AND POLICIES AND PRACTICES OF THE DEPARTMENT OF PUBLIC WORKS.
- ELECTRIC, TELEPHONE, CABLE, WATER, AND SANITARY SEWER SERVICES SHALL CONFORM TO THE POLICIES AND PRACTICES 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
- 8. 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.
- 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, SEWER AND DRAINS. ALL ELECTRIC FACILITIES SUCH AS CONDUITS AND PRIMARY & SECONDARY HANDHOLES SHALL CONFORM TO THE REQUIREMENTS OF EVERSOURCE. 10. SANITARY SEWER INSTALLATION NOTES:
- A. ALL ABANDONED PIES MUST BE TAKEN OUT AND REMOVED FROM THE JOB SITE.



GENERAL CONSTRUCTION NOTES:

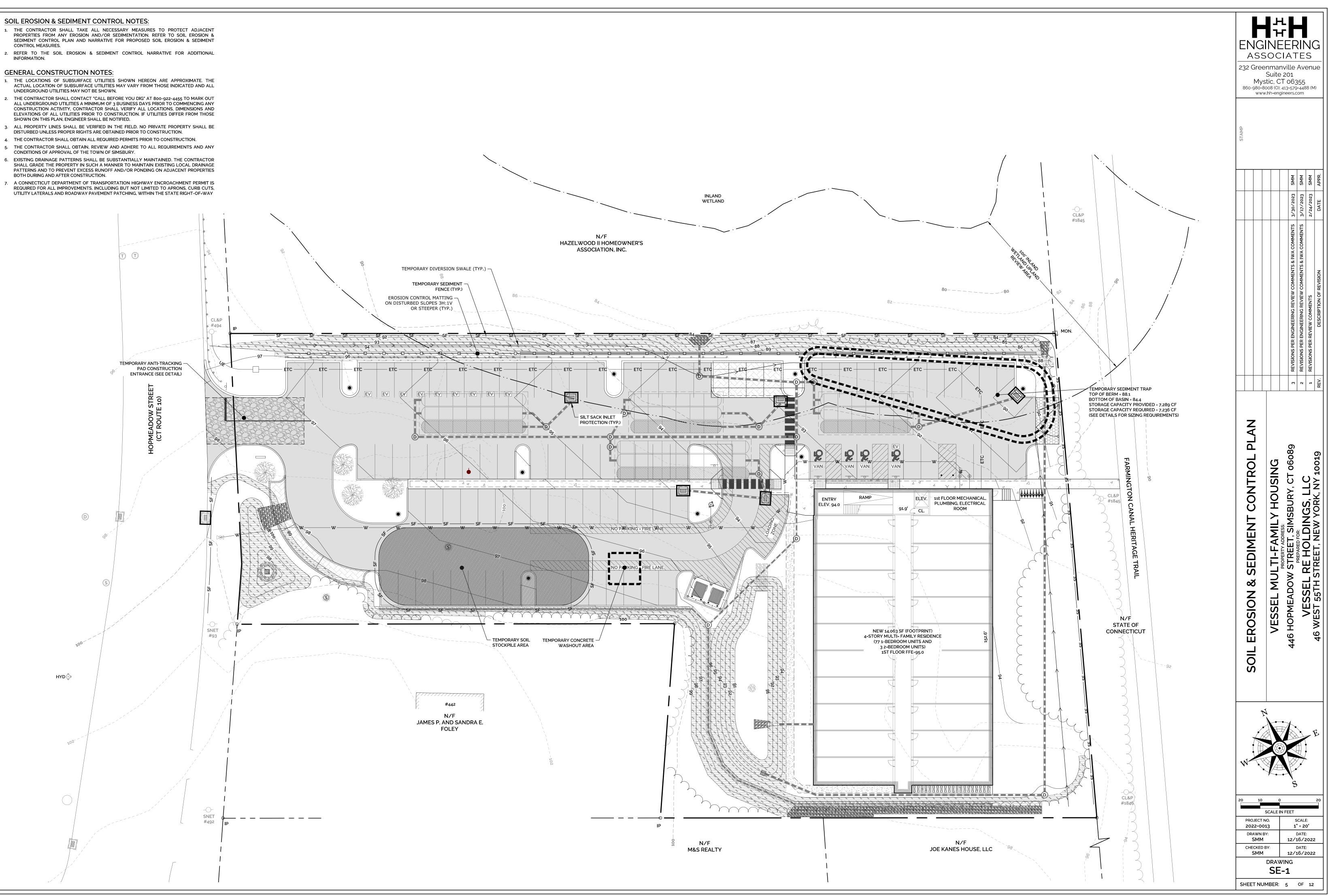
- . THE LOCATIONS OF SUBSURFACE UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ACTUAL LOCATION OF SUBSURFACE UTILITIES MAY VARY FROM THOSE INDICATED AND ALL UNDERGROUND UTILITIES MAY NOT BE SHOWN.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 800-922-4455 TO MARK OUT ALL UNDERGROUND UTILITIES A MINIMUM OF 3 BUSINESS DAYS PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITY, CONTRACTOR SHALL VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. IF UTILITIES DIFFER FROM THOSE
- SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED. 3. ALL PROPERTY LINES SHALL BE VERIFIED IN THE FIELD. NO PRIVATE PROPERTY SHALL BE
- DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION. 4. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- 5. THE CONTRACTOR SHALL OBTAIN, REVIEW AND ADHERE TO ALL REQUIREMENTS AND ANY CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- 6. EXISTING DRAINAGE PATTERNS SHALL BE SUBSTANTIALLY MAINTAINED. THE CONTRACTOR SHALL GRADE THE PROPERTY IN SUCH A MANNER TO MAINTAIN EXISTING LOCAL DRAINAGE PATTERNS AND TO PREVENT EXCESS RUNOFF AND/OR PONDING ON ADJACENT PROPERTIES BOTH DURING AND AFTER CONSTRUCTION.
- A CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY ENCROACHMENT PERMIT IS REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS, UTILITY LATERALS AND ROADWAY PAVEMENT PATCHING, WITHIN THE STATE RIGHT-OF-WAY

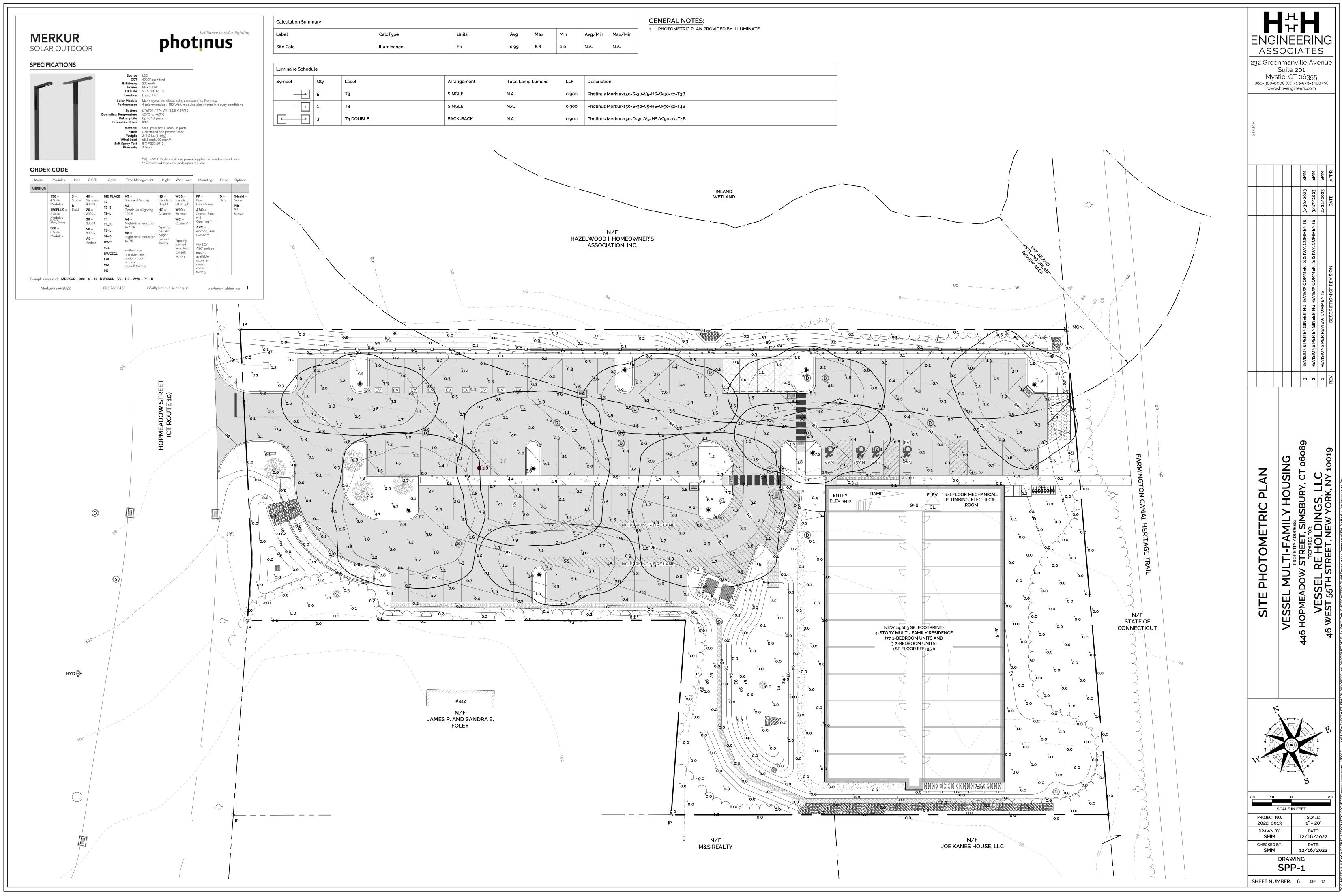


SOIL EROSION & SEDIMENT CONTROL NOTES:

- 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.

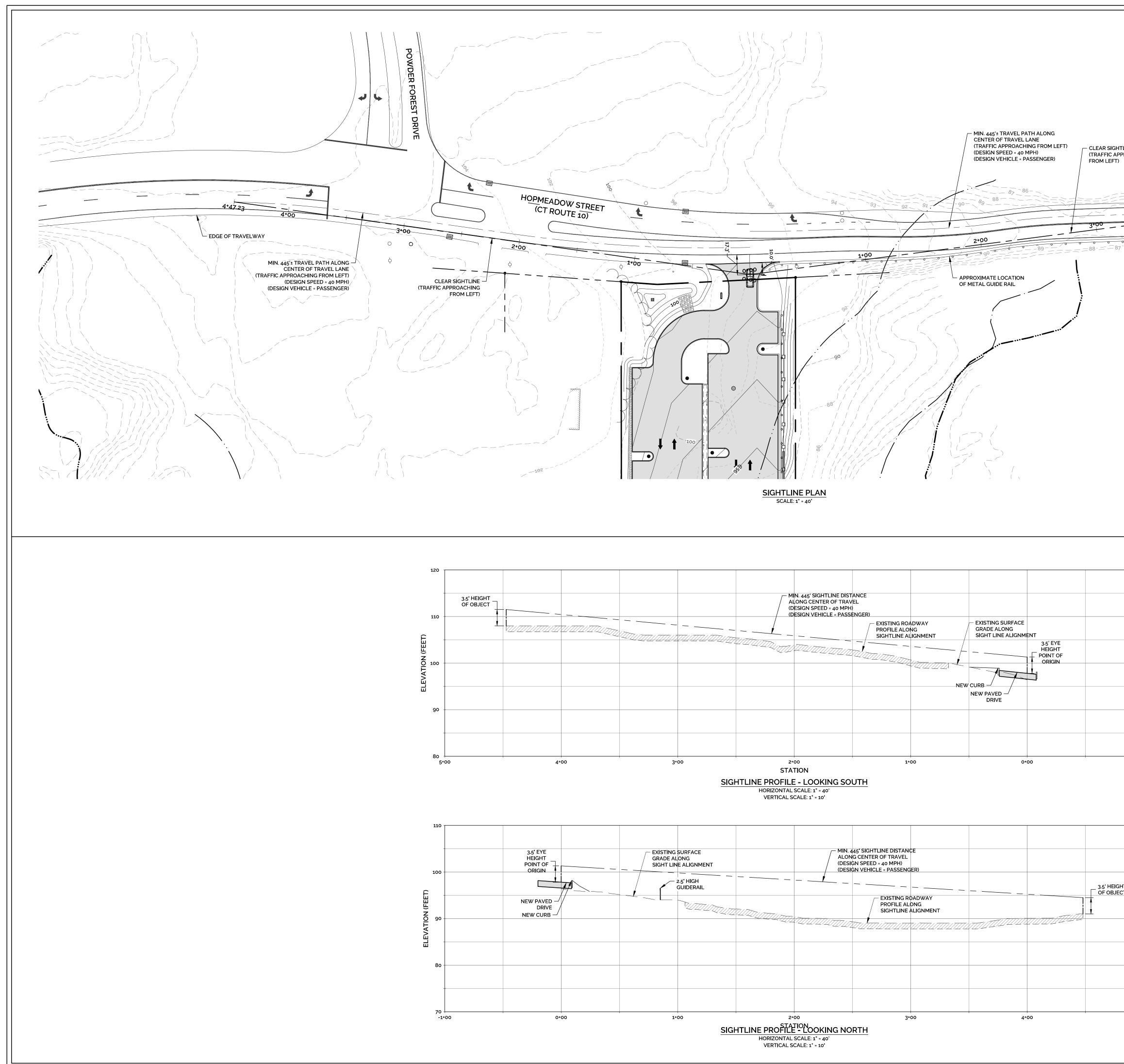
- UNDERGROUND UTILITIES MAY NOT BE SHOWN.
- SHOWN ON THIS PLAN, ENGINEER SHALL BE NOTIFIED.
- DISTURBED UNLESS PROPER RIGHTS ARE OBTAINED PRIOR TO CONSTRUCTION.
- CONDITIONS OF APPROVAL OF THE TOWN OF SIMSBURY.
- BOTH DURING AND AFTER CONSTRUCTION.
- REQUIRED FOR ALL IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO APRONS, CURB CUTS,





Units	Avg	Max	Min	Avg/Min	Max/Min
Fc	0.99	8.6	0.0	N.A.	N.A.

Arrangement	Total Lamp Lumens	LLF	Description
SINGLE	N.A.	0.900	Photinus Merkur-150-S-30-V5-HS-W90-xx-T3B
SINGLE	N.A.	0.900	Photinus Merkur-150-S-30-V5-HS-W90-xx-T4B
BACK-BACK	N.A.	0.900	Photinus Merkur-150-D-30-V5-HS-W90-xx-T4B
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	ENG ASS 232 Gree My 860-980-	HHHHH INEERING SOCIATES enmanville Avenue Suite 201 rstic, CT 06355 8008 (O): 413-579-4488 (M) w.hh-engineers.com
Image: Decision of the set of the s	STAMP	REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS 3/30/2023 SMM REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS 3/17/2023 SMM REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS 3/17/2023 SMM REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMMENTS 2/24/2023 SMM REVISIONS PER REVIEW COMMENTS 2/24/2023 SMM DESCRIPTION OF REVISION DATE APPR.
	SIGHTLINE DEMONSTRATION PLAN	VESSEL MULTI-FAMILY HOUSING PROPERTY ADDRESS: 446 HOPMEADOW STREET, SIMSBURY, CT 06089 REPARED FOR: VESSEL RE HOLDINGS, LLC 46 WEST 55TH STREET, NEW YORK, NY 10019 REV.
ETENTION OF THE PART OF THE PA	40 20 PROJECT 2022-0 DRAWN SMM CHECKEE SMM	SCALE IN FEET NO. SCALE: 013 1" = 20' BY: DATE: 1 12/16/2022 D BY: DATE:

SOIL EROSION & SEDIMENTATION CONTROL PLAN:

PROJECT DESCRIPTION

- THE APPLICANT IS PROPOSING TO DEMOLISH THE EXISTING BUILDING AND IMPROVEMENTS AND CONSTRUCT 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 95 VEHICLE PARKING LOT, NEW UTILITY CONNECTIONS, NEW LANDSCAPING IMPROVEMENTS, AND A NEW STORMWATER MANAGEMENT SYSTEM. THE
- DEVELOPMENT IS BEING PROPOSED IN ACCORDANCE WITH GENERAL STATUTES 8-30G. CONSTRUCTION IS ANTICIPATED TO COMMENCE IN FALL 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 ELEVATION 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 1.8 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.
- DEVELOPMENT OF A CONSTRUCTION OPERATIONS PLAN IN CONSIDERATION OF BASIC CONSTRUCTION SEQUENCING OUTLINED HEREIN
- 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. 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

- CONTACT "CALL BEFORE YOU DIG" TO MARK OUT ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- 2. ENSURE ALL LAND USE PERMITS HAVE BEEN SECURED. OBTAIN ALL NECESSARY PERMITS. 3. 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.
- 6 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 1.000 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.
- 7. 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. 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.
- 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.
- 2. 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: PERMANENT SEED MIXTURE:

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

5. 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 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.

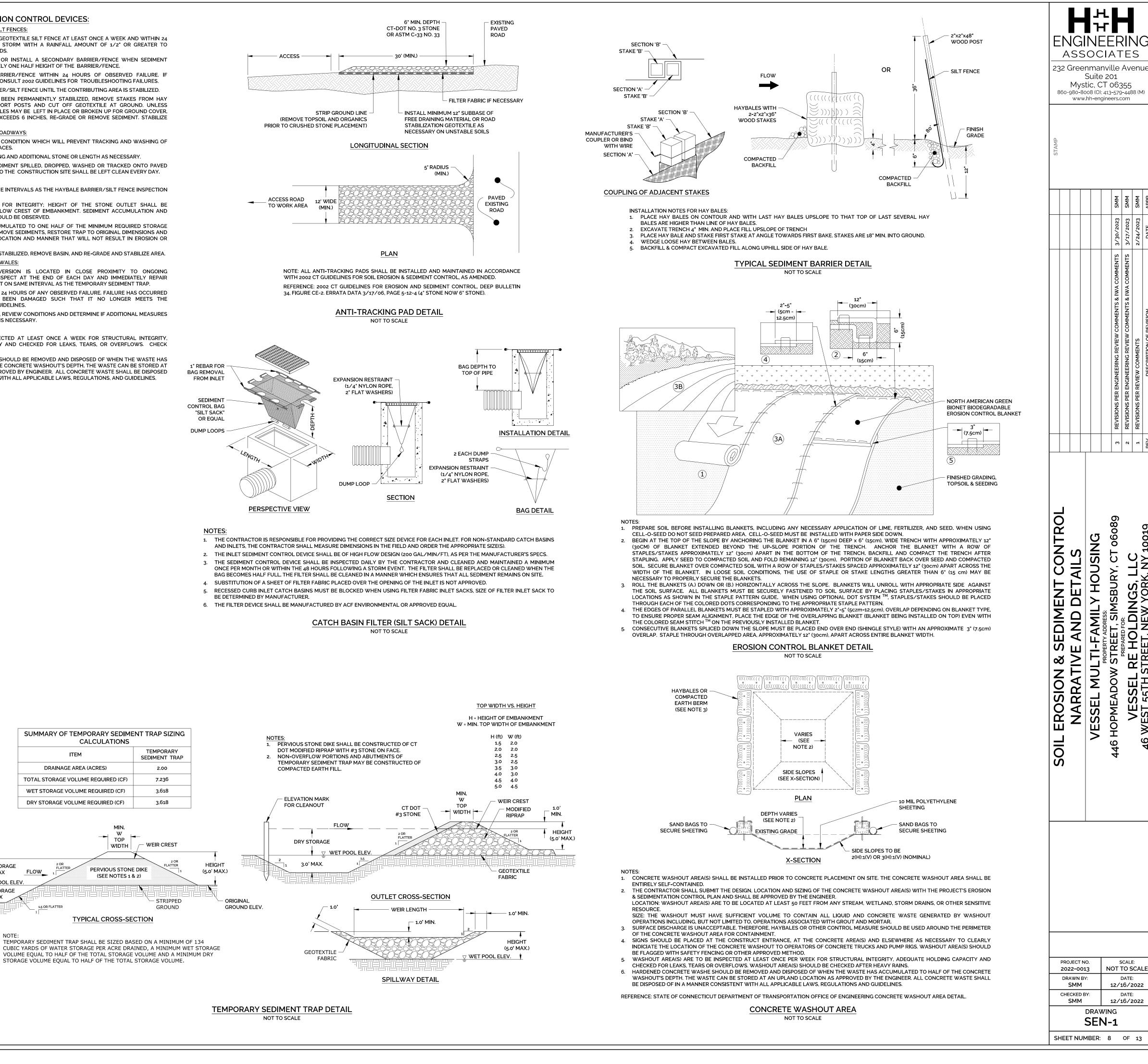
MAINTENANCE OF EROSION CONTROL DEVICES:

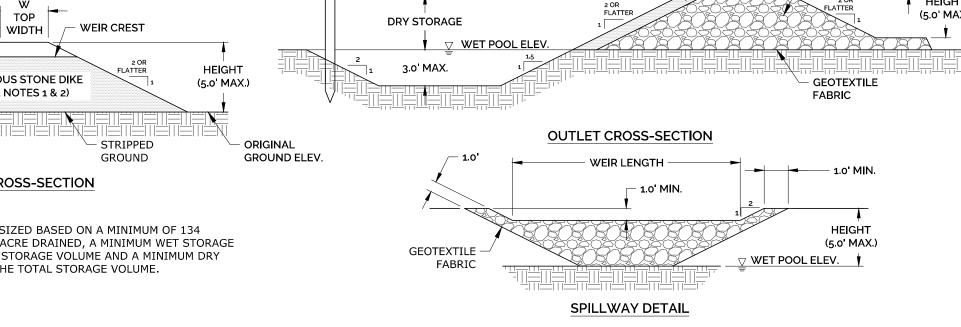
- HAYBALE BARRIERS/GEOTEXTILE SILT FENCES: INSPECT HAY BALE BARRIERS/GEOTEXTILE SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER THE END OF A STORM WITH A RAINFALL AMOUNT OF 1/2" OR GREATER TO DETERMINE MAINTENANCE NEEDS.
- REMOVE SEDIMENT DEPOSITS OR INSTALL A SECONDARY BARRIER/FENCE WHEN SEDIMENT DEPOSITS REACH APPROXIMATELY ONE HALF HEIGHT OF THE BARRIER/FENCE.
- REPLACE OR REPAIR THE BARRIER/FENCE WITHIN 24 HOURS OF OBSERVED FAILURE. IF REPETITIVE FAILURE OCCURS, CONSULT 2002 GUIDELINES FOR TROUBLESHOOTING FAILURES.
- 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. IF ACCUMULATED SEDIMENT EXCEEDS 6 INCHES, RE-GRADE OR REMOVE SEDIMENT. STABILIZE
- 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 IMMEDIATELY REMOVE ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PAVED
- SURFACES. ROADS ADJACENT TO THE CONSTRUCTION SITE SHALL BE LEFT CLEAN EVERY DAY. TEMPORARY SEDIMENT TRAP:
- 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
- AFTER CONTRIBUTING AREA IS STABILIZED, REMOVE BASIN, AND RE-GRADE AND STABILIZE AREA. TEMPORARY DIVERSION DITCHES/SWALES:
- 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.

ITEM DRAINAGE AREA (ACRES) TOTAL STORAGE VOLUME REQUIRED (CF) WET STORAGE VOLUME REQUIRED (CF) DRY STORAGE VOLUME REQUIRED (CF)

Vd=DRY STORAGE =4.0 MAX FLOW WET POOL ELE Vw=WET STORAGE =3.0 MAX 1.5 OR FLATTER

STORAGE VOLUME EQUAL TO HALF OF THE TOTAL STORAGE VOLUME.



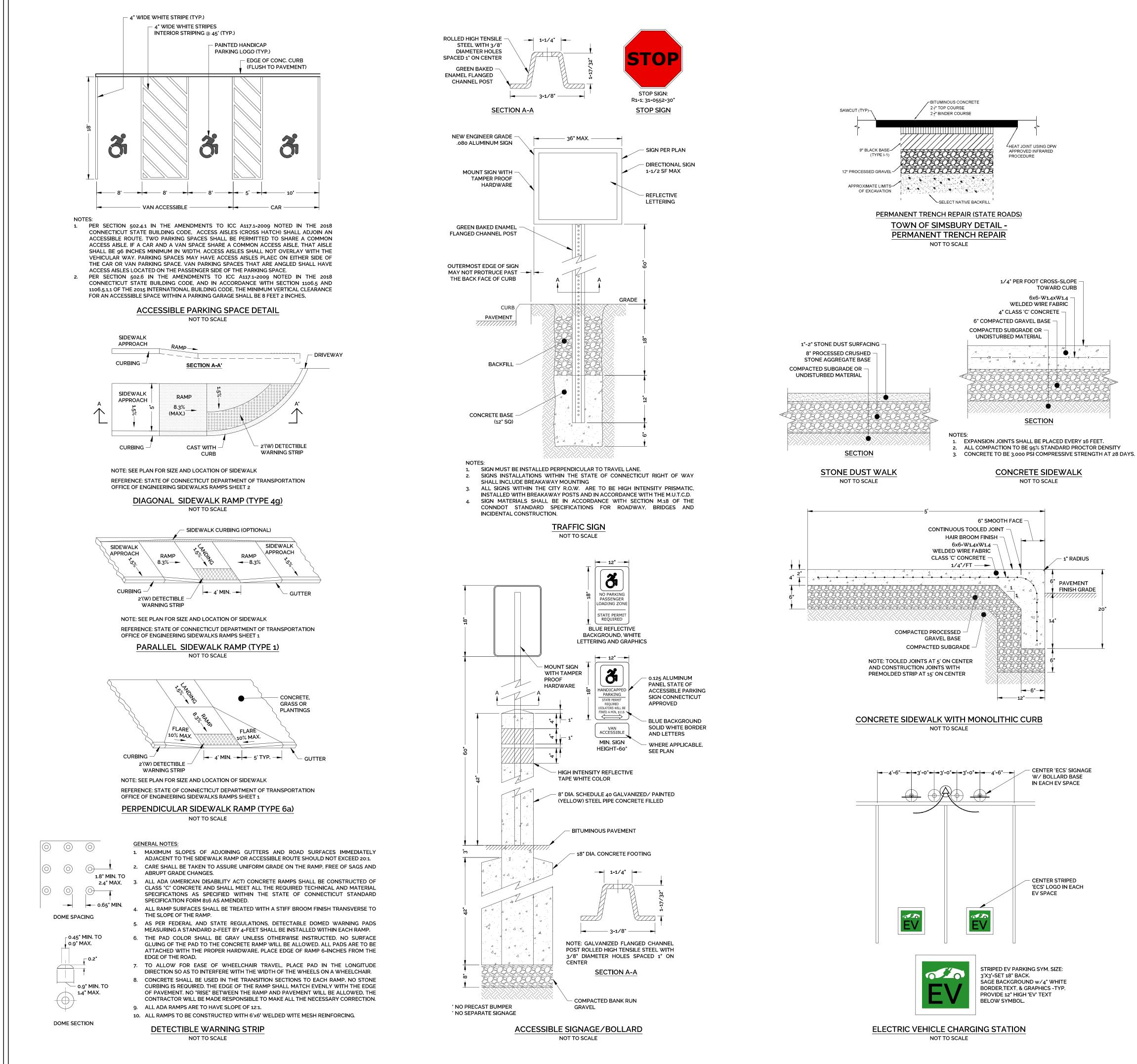


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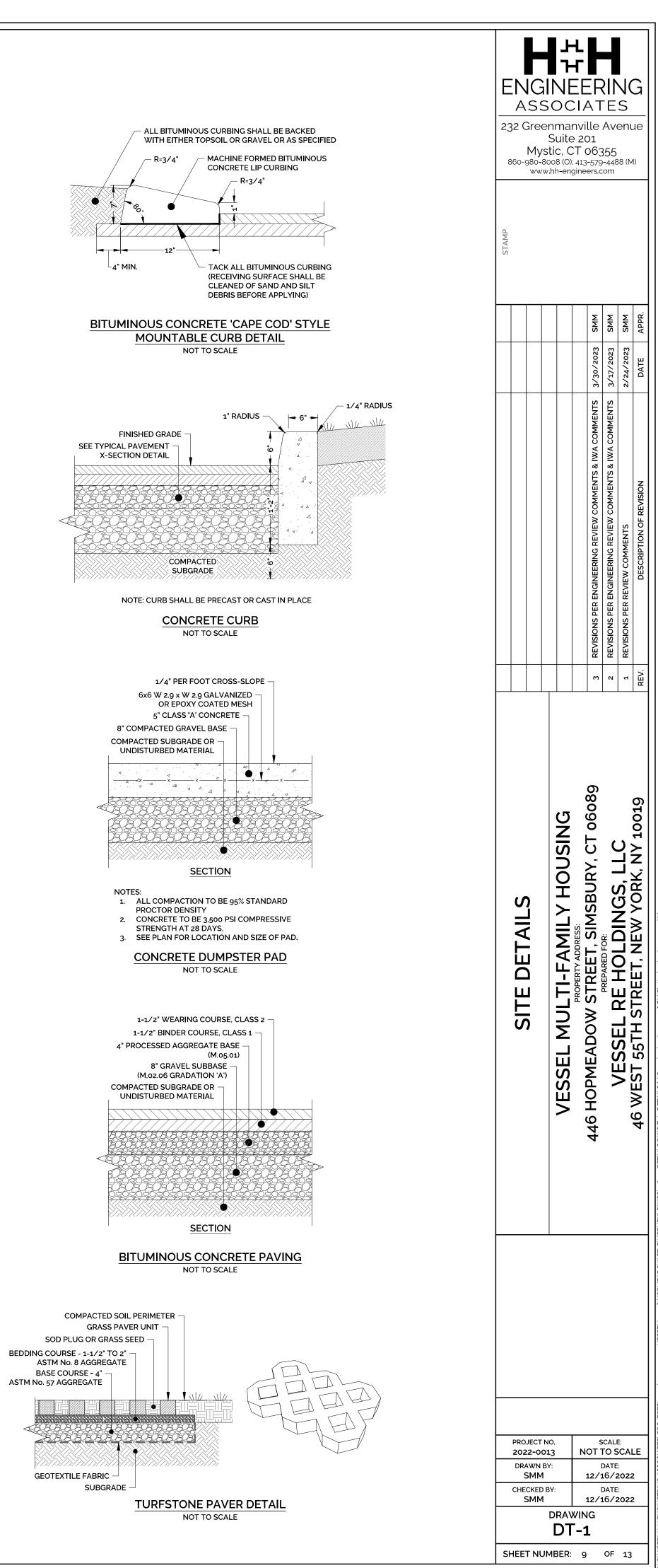


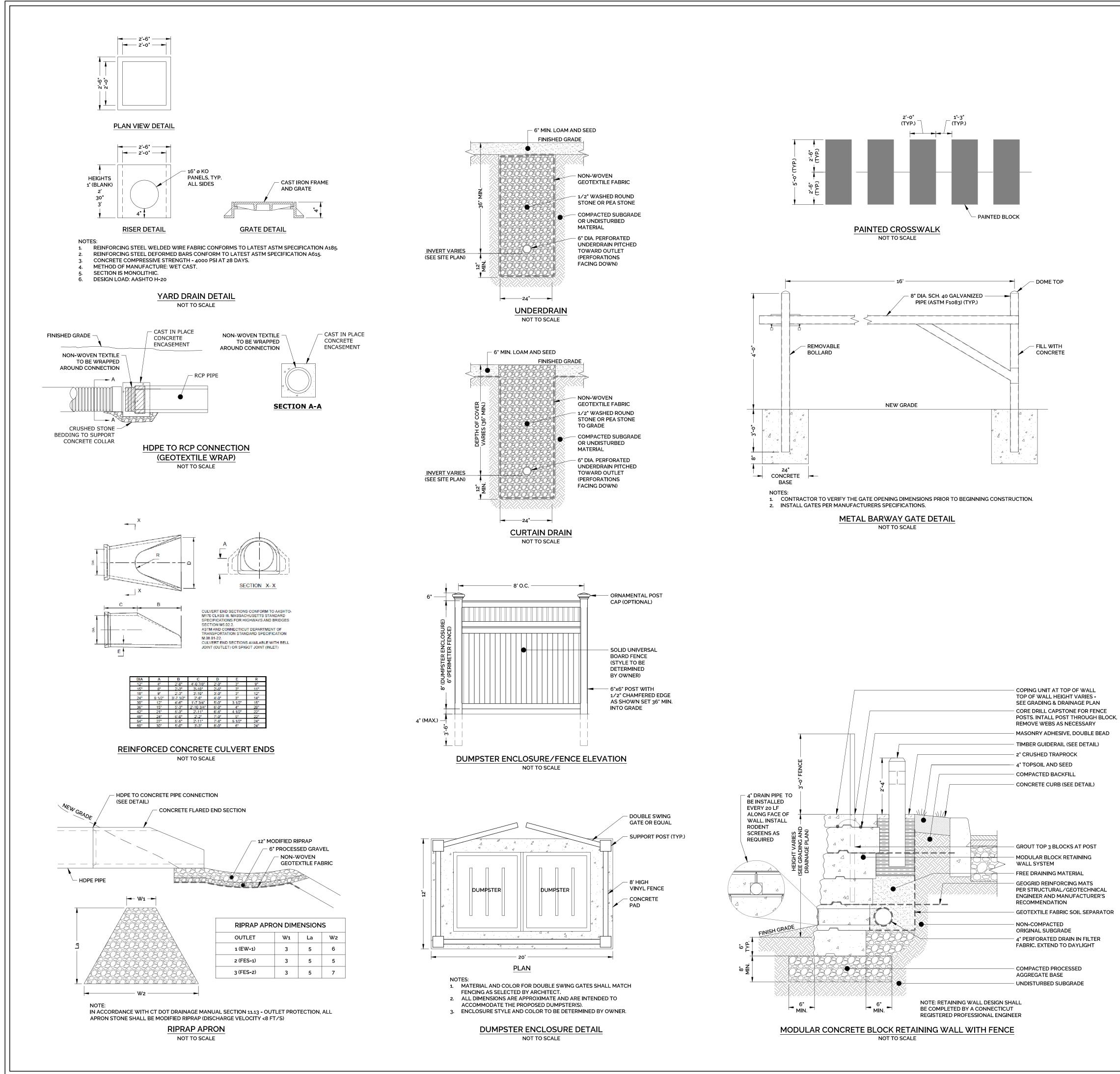
TOWARD CURB

1" RADIUS

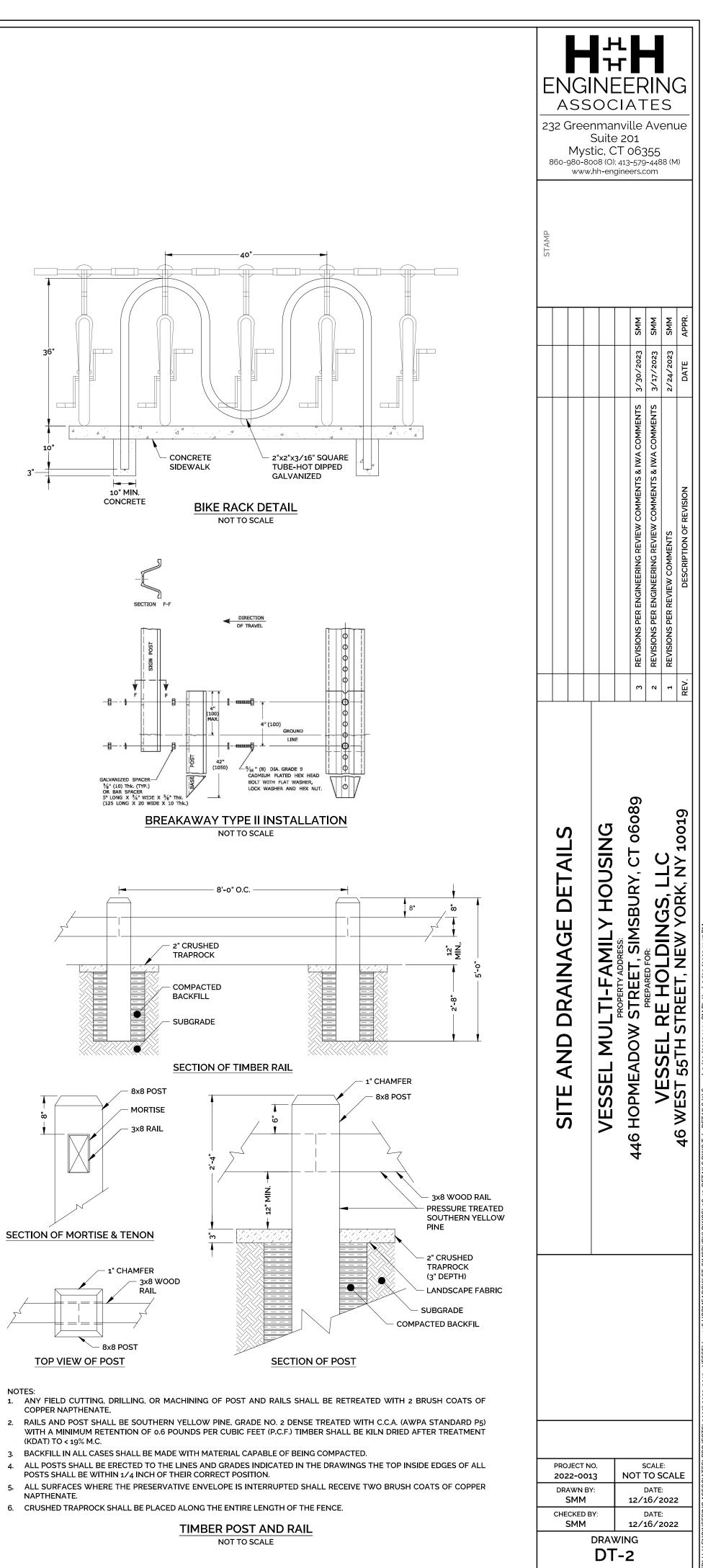
PAVEMENT

FINISH GRADE

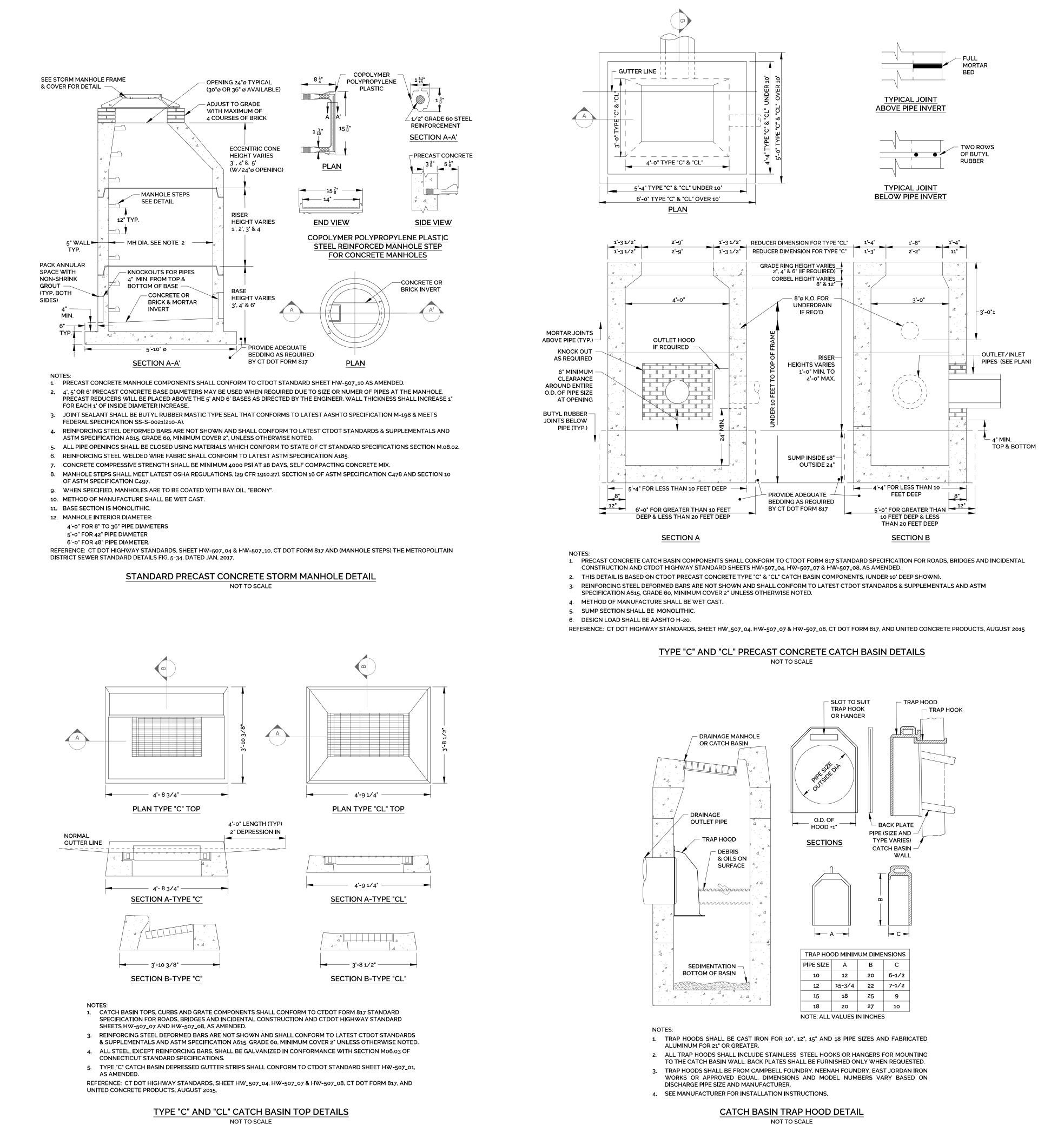


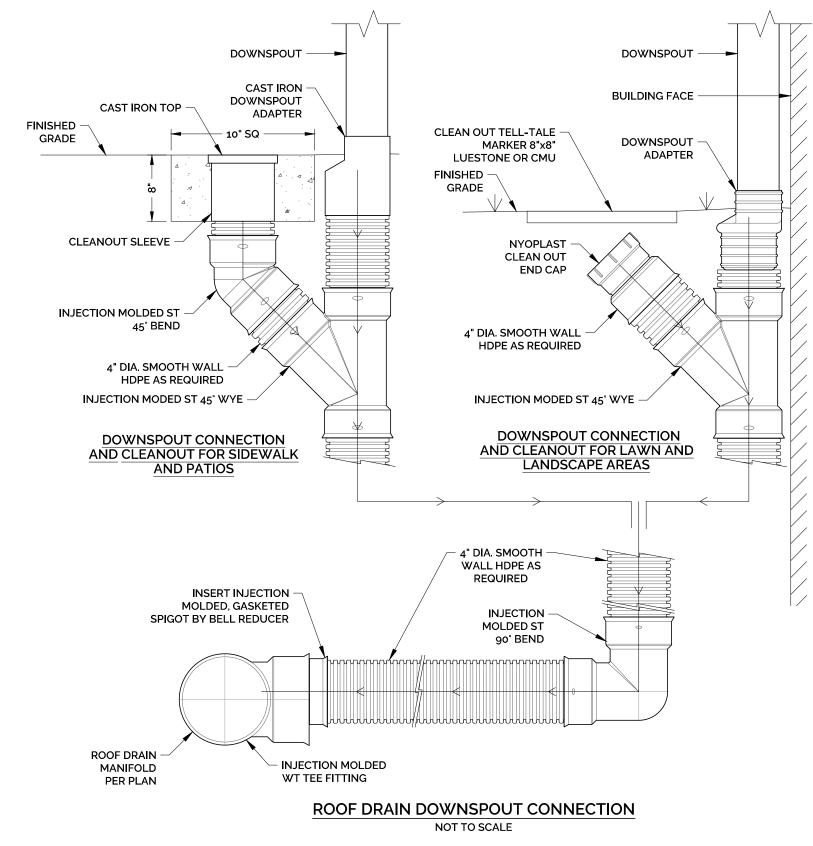


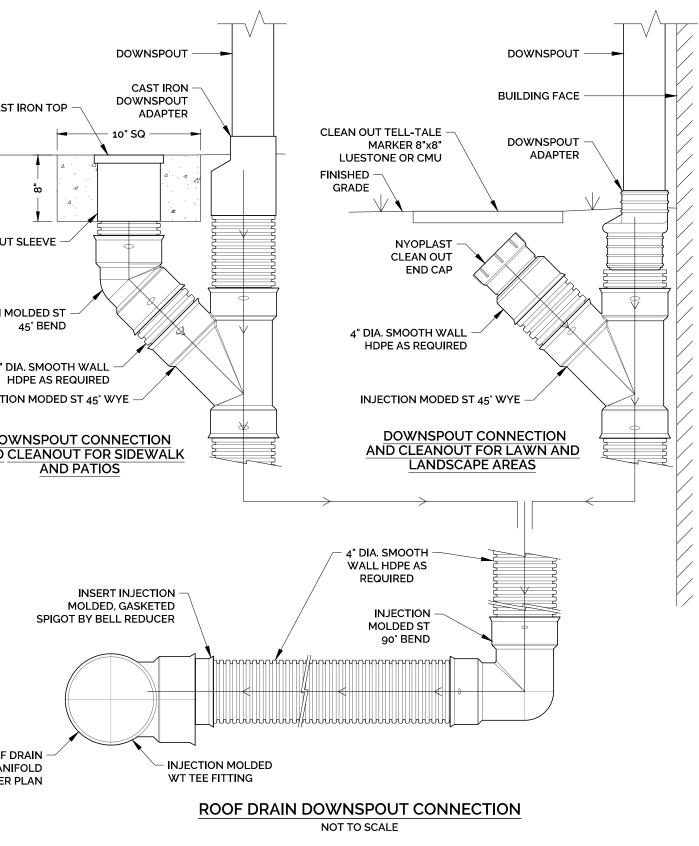
4" PERFORATED DRAIN IN FILTER FABRIC. EXTEND TO DAYLIGHT



SHEET NUMBER: 10 OF 13







2'-1¹2" DIA.

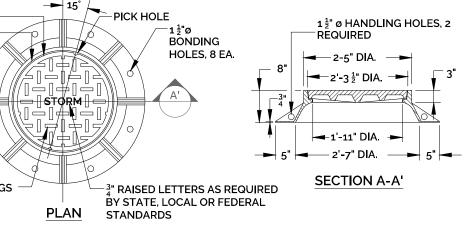
2 -1" DIA



NON-SKID LUGS -

NOTES:

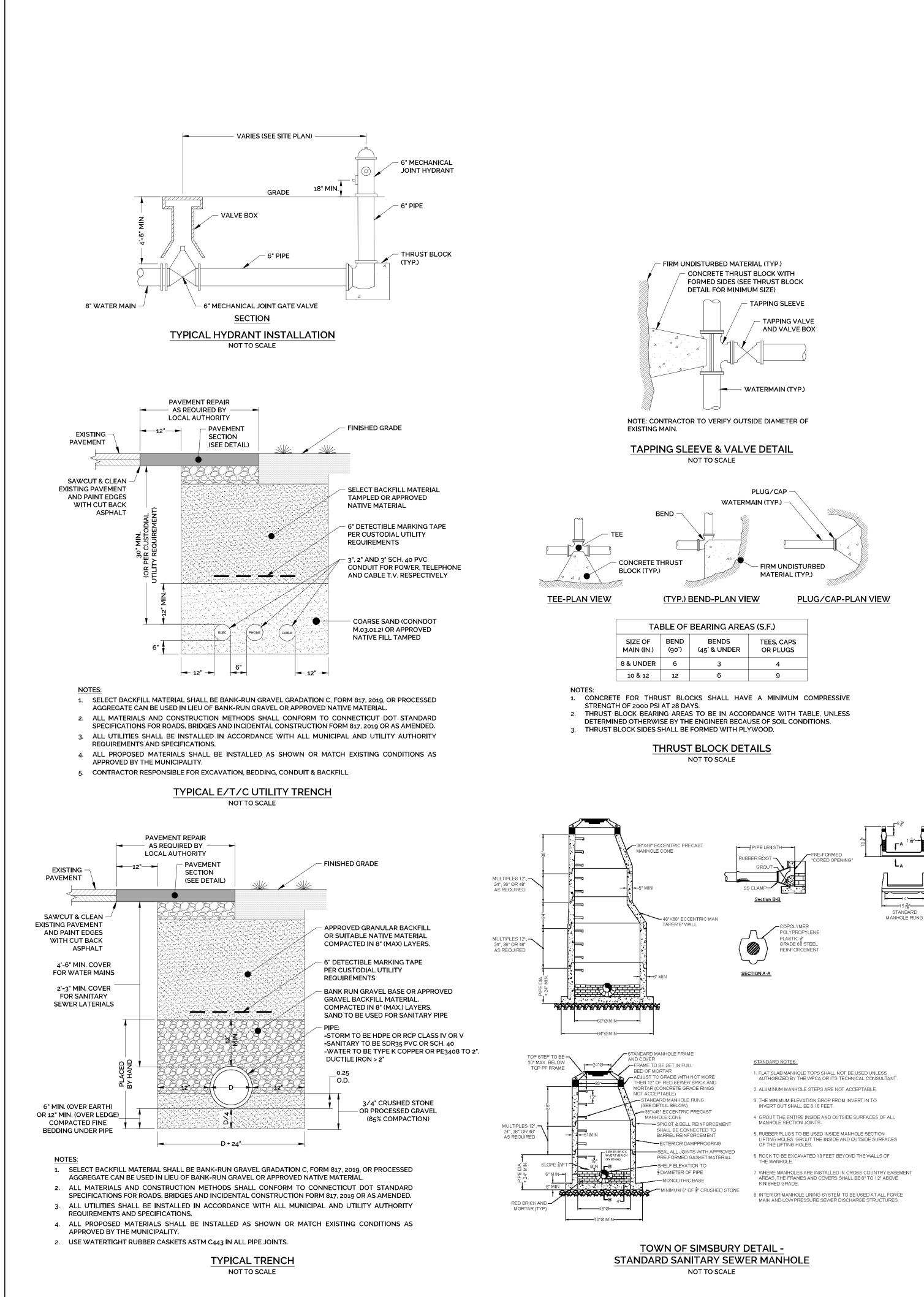
232 Gree My 860-980-8	SOCI	AT ille 01 063	E Ave 355	S eni	Je
		MMENTS 3/30/2023 SMM	MMENTS 3/17/2023 SMM	2/24/2023 SMM	DATE APPR.
		3 REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMM	2 REVISIONS PER ENGINEERING REVIEW COMMENTS & IWA COMM	1 REVISIONS PER REVIEW COMMENTS	REV. DESCRIPTION OF REVISION
DRAINAGE DETAILS	VESSEL MULTI-FAMILY HOUSING PROPERTY ADDRESS:	446 HOPMEADOW STREET, SIMSBURY, CT 06089			46 WEST 55TH STREET, NEW YORK, NY 10019



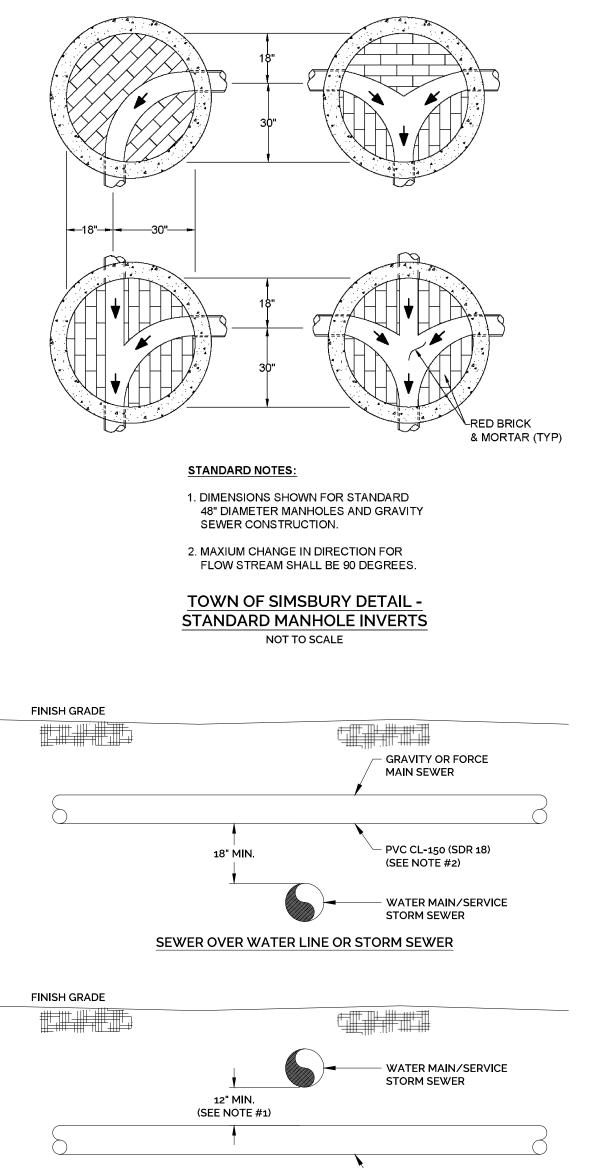
1. STORM MANHOLE FRAMES AND COVERS SHALL CONFORM TO CTDOT FORM 817 STANDA SPECIFICATION FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION AND CT DOT HIGHWAY STANDARD SHEETS HW-507_10, AS AMENDED. 2. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLD ORFORMED USING BRICK MASONRY, UNLESS OTHERWISE DIRECTED. 3. A FRAME OF 3'-3" WITH 4" FLANGE SHALL BE USED WHEN THE TOP DIAMETER OF A PREC CONE IS LESS THAN 3'-6". ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME. 4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.

REFERENCE: CT DOT HIGHWAY STANDARDS, SHEET HW-507_04 & HW-507_10, CT DOT FORM

STORM MANHOLE FRAME & COVER DETAIL NOT TO SCALE

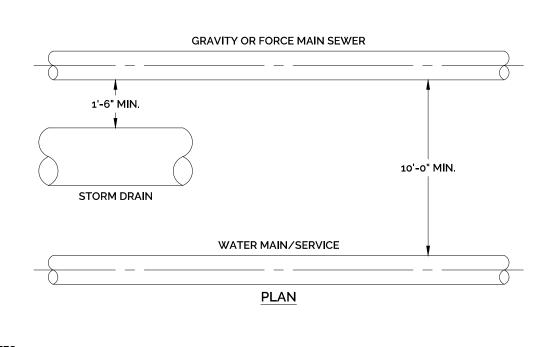


6 3 4 12 6 9	8END (90°)	BENDS (45° & UNDER	TEES, CAPS OR PLUGS	
12 6 9	6	3	4	
	12	6	9	



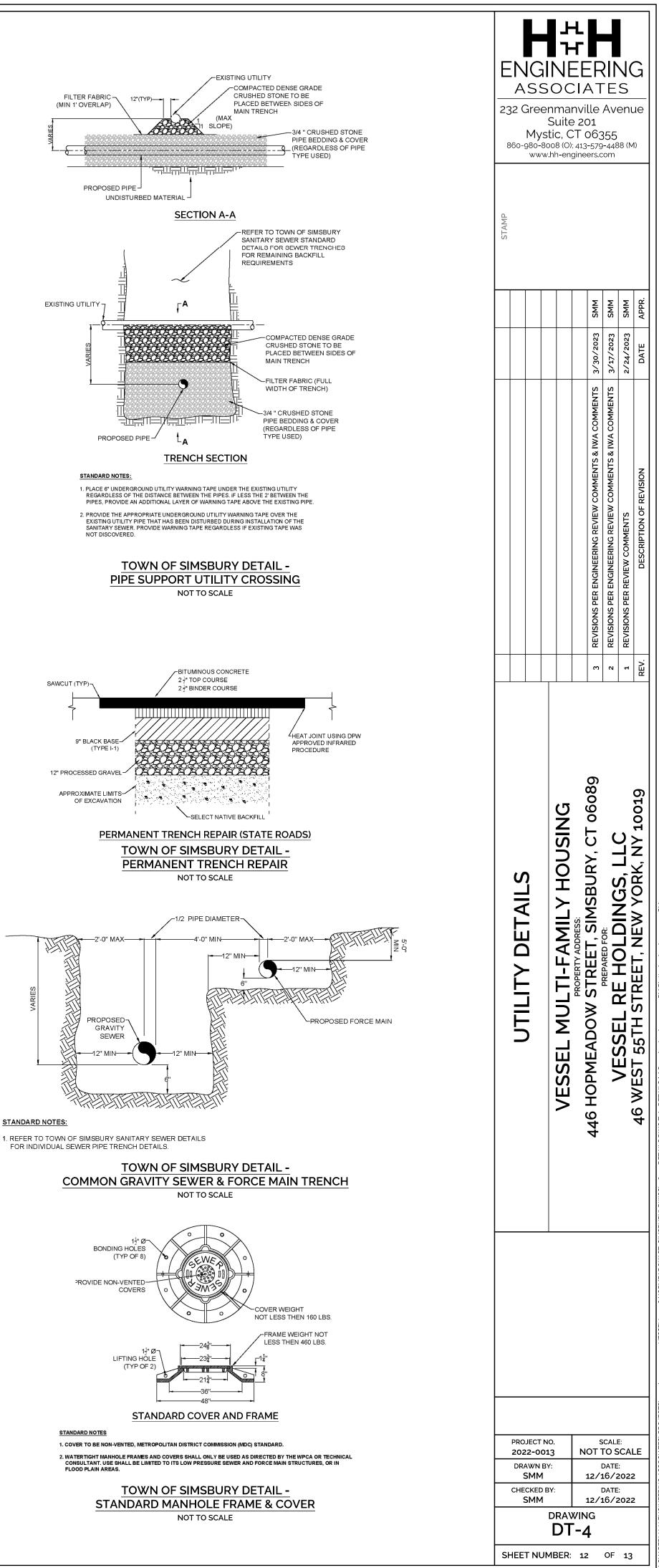
- GRAVITY OR FORCE MAIN SEWER SEWER UNDER WATER LINE OR STORM SEWER

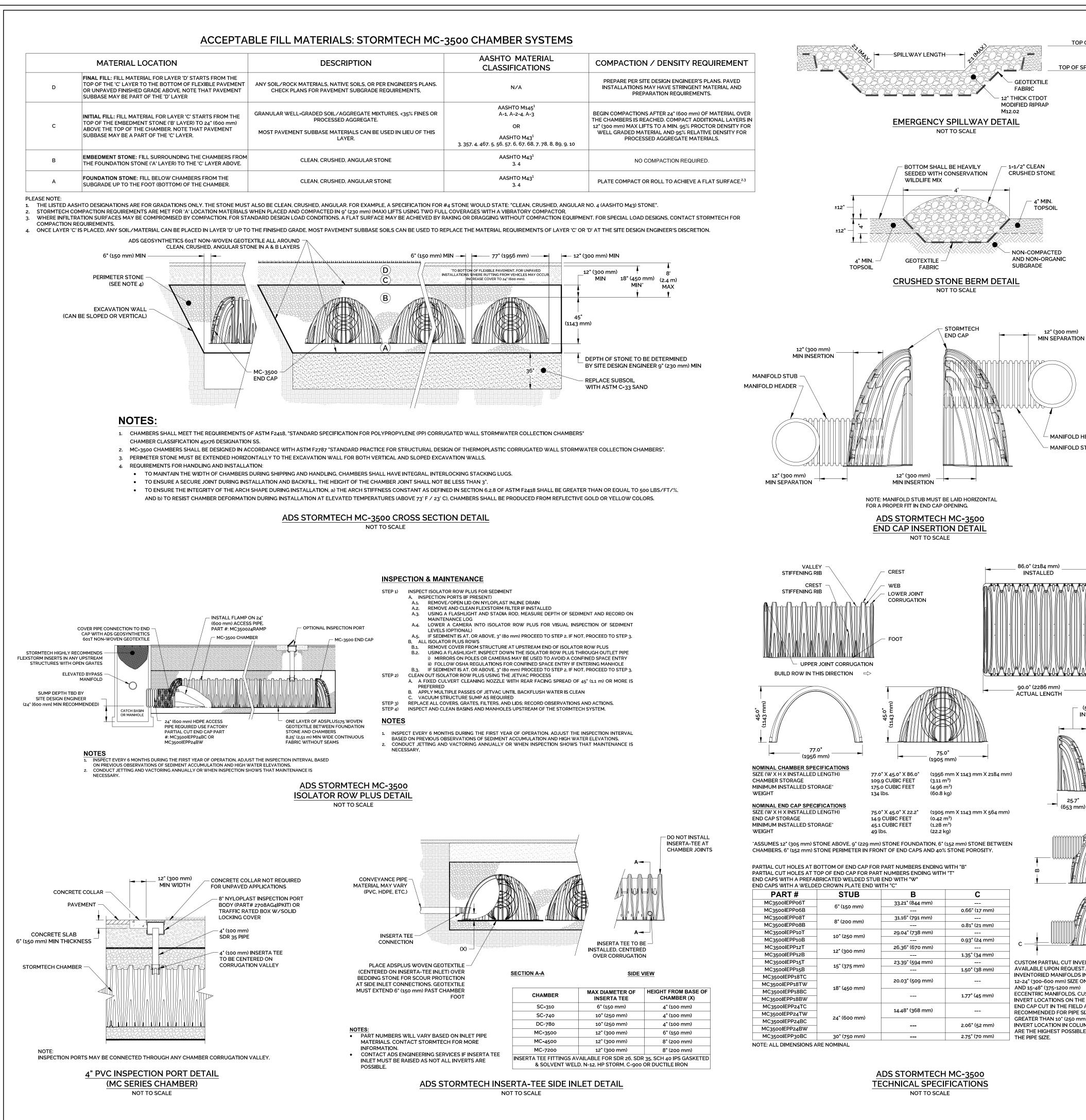
- NOTES: 1. WHEN THE VERTICAL SEPARATION DISTANCE IS 12"-18" THE SEWER SHALL BE PVC CL-150 (SDR 18) FOR A DISTANCE OF 10-0" ON EITHER SIDE OF THE WATER LINE OR STORM SEWER. WHEN THE SEPARATION
- DISTANCE IS GREATER THAN 18", STANDARD SEWER PIPE MATERIAL (SDR 35) MAY BE USED. 2. THE SEWER PIPE SHALL BE PVC CL-150 (SDR 18) FOR A DISTANCE OF 10'-0" ON EITHER SIDE OF THE WATER
- LINE OR STORM SEWER. NO PIPE JOINTS SHALL BE LOCATED WITHIN THE 10' DISTANCE EITHER SIDE. 3. THESE SEPARATION DISTANCES APPLY TO ANY SEWER WITHIN A TOWN RIGHT-OF-WAY OR EASEMENT.
 - VERTICAL SEPARATION DISTANCES NOT TO SCALE



NOTES: 1. THESE SEPARATION DISTANCES APPLY TO ANY SEWER WITHIN A TOWN RIGHT-OF-WAY OR EASEMENT. 2. HORIZONTAL RESTRICTIONS FOR STORM SEWER ONLY APPLY WHEN PIPES ARE AT THE SAME ELEVATION.

> HORIZONTAL SEPARATION DISTANCES NOT TO SCALE





CUSTOM PARTIAL CUT INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS, CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm) THE INVERT LOCATION IN COLUMN 'B ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

STRUCTURE ID ICS-1 ICS-2 ICS-3 ICS-4 OCS-1 OCS-2 OCS-3 OCS-4 OCS-5

TOP OF BERM

TOP OF SPILLWAY

12" (300 mm)

- MANIFOLD HEADER

22.2"

(564 mm) INSTALLED

25.7"

[†] (653 mm)

MANIFOLD STUB

ELEV A

