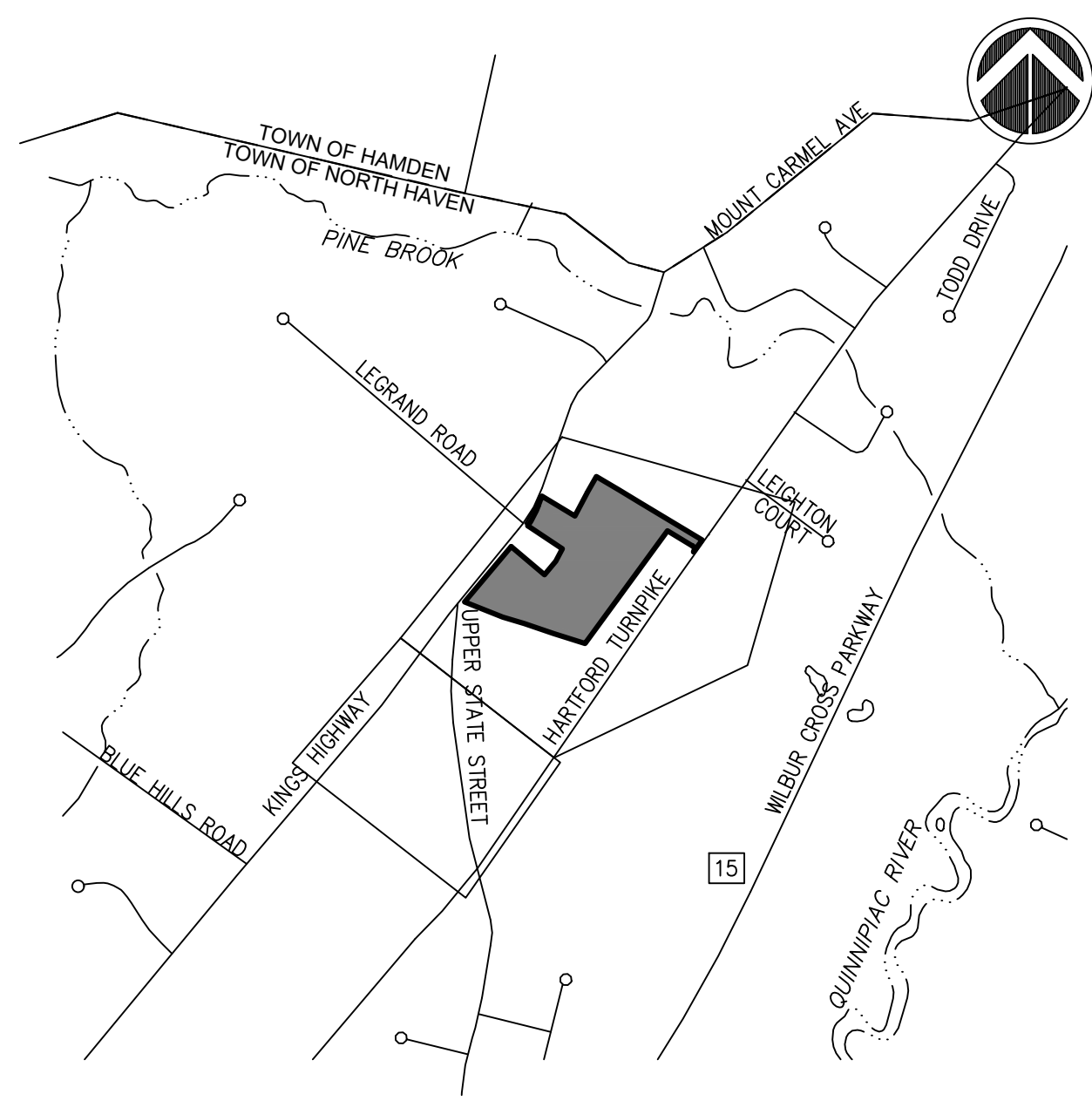
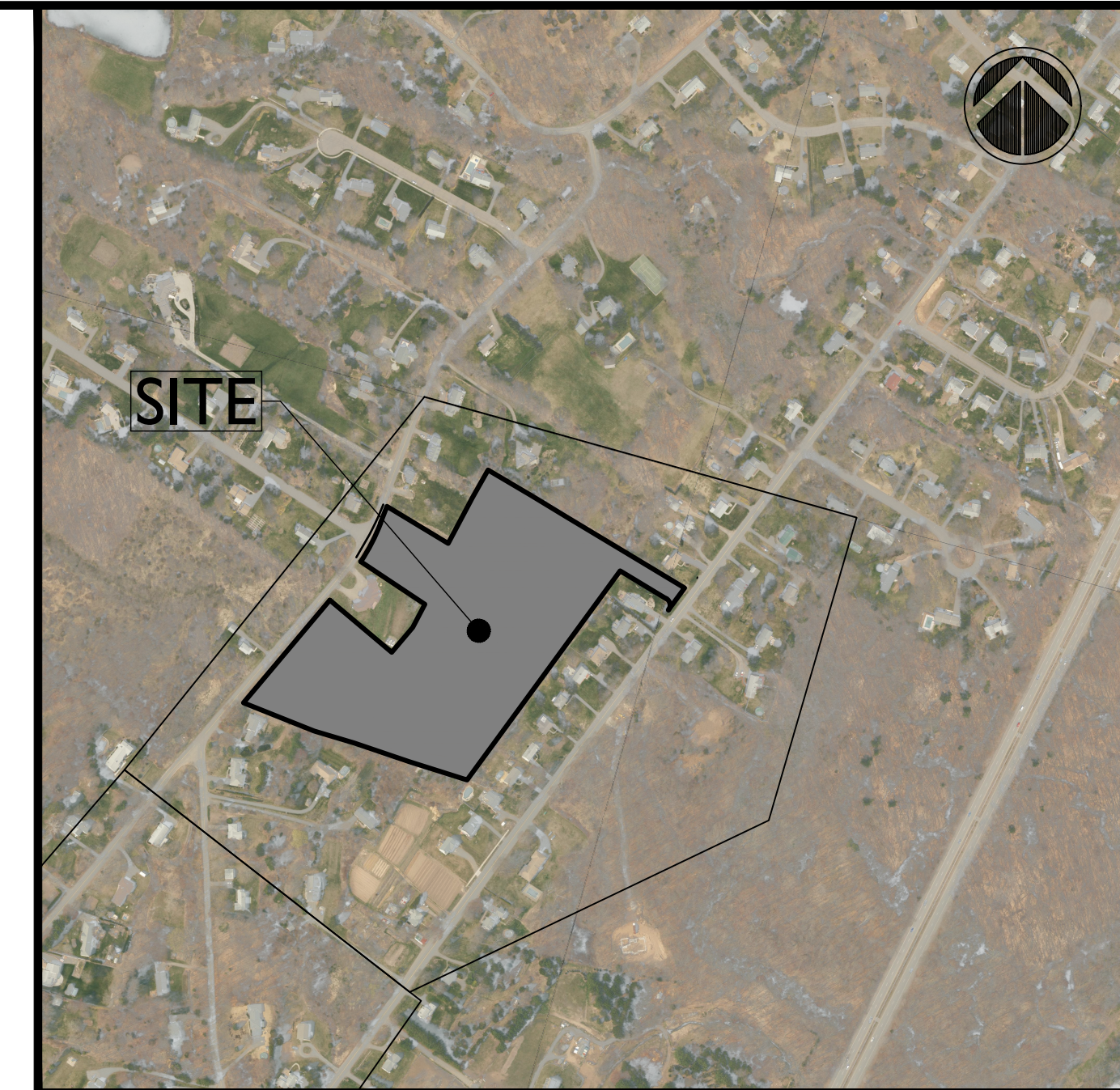


RESUBDIVISION OF ANDERSON SUNNYSIDE FARM Land of GBRSTORZ, LLC 318 Kings Highway TOWN OF NORTH HAVEN, CONNECTICUT 120-04, SUBDIVISION REFERRAL



LOCATION MAP
SCALE: 1"=1,000'



VICINITY MAP
SCALE: 1"=400'

OWNER / APPLICANT:

GBRSTORZ, LLC
315 Boston Street
Guilford, CT
(203) 640-1825

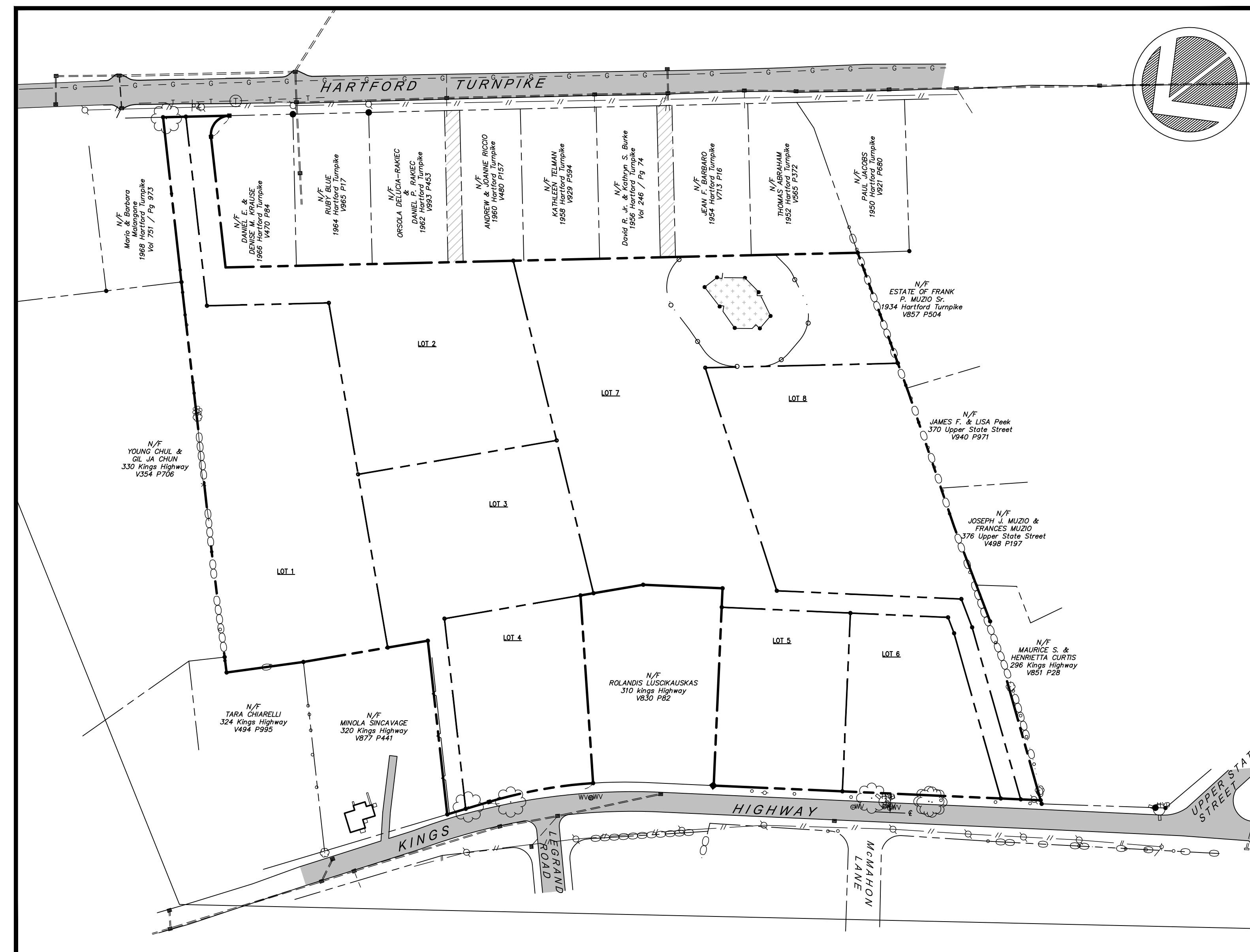
SITE PLANNER / CIVIL ENGINEER:



160 West Street, Suite E
Cromwell, CT 06416
Tel: 860.635.2877
85 Civic Center Plaza, Suite 103
Poughkeepsie NY 12601
Tel: 845.243.2880
1 International Blvd, Suite 400
Mahwah, NJ 07495
Tel: 908.603.5730
www.lrcconsult.com

- LAND PLANNING
- CIVIL ENGINEERING
- ENVIRONMENTAL SERVICES
- LAND SURVEYING
- LANDSCAPE ARCHITECTURE

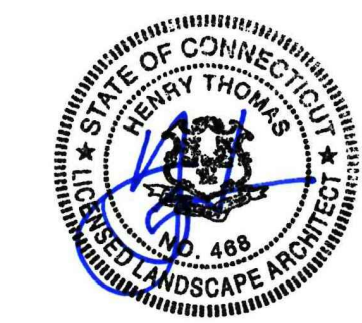
LRC Engineering & Surveying, DPC
LRC Engineering and Surveying, LLC
LRC Environmental Services, Inc.



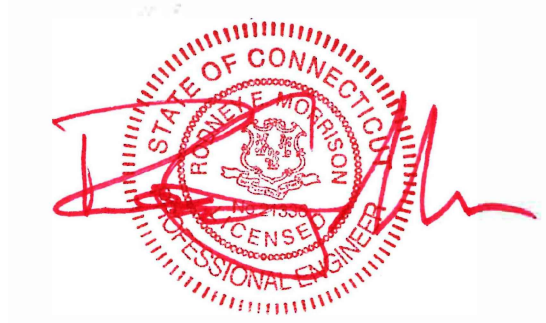
OVERALL SITE PLAN
SCALE: 1"=100'

INDEX OF DRAWINGS

- COVER SHEET
- EX-1 EXISTING CONDITIONS
- SUB-1 SUBDIVISION PLAN
- SDP-1 SITE DEVELOPMENT PLAN
- EC-1 EROSION CONTROL PLAN
- LL-1 LANDSCAPE PLAN
- DN-1 SITE DETAILS
- DN-2 SITE DETAILS
- DN-3 SOIL TEST DATA



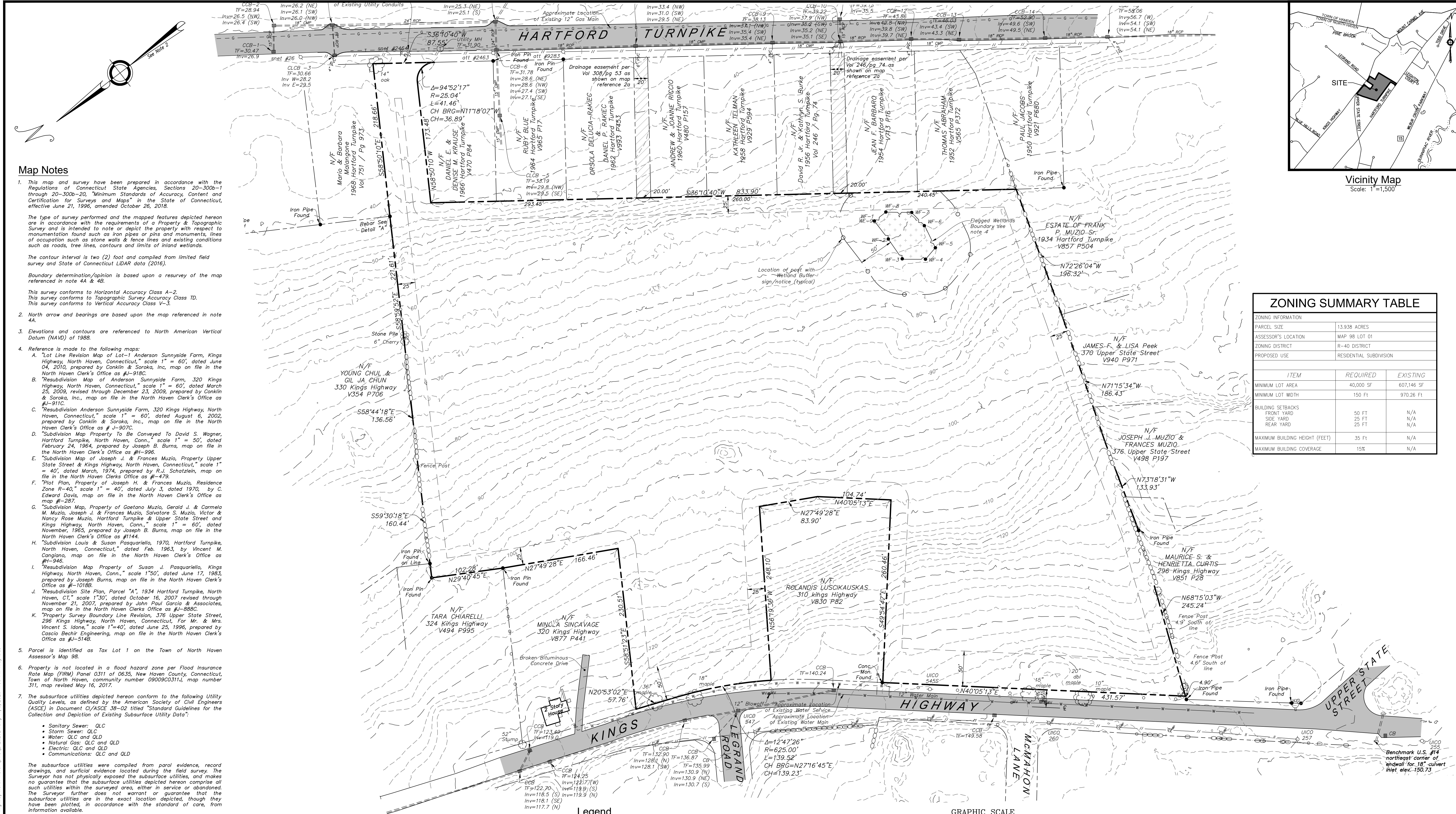
Henry Thomas R.L.A. #468



Rodney Morrison P.E. #21,336

John Wagenblatt
John Wagenblatt P.L.S. #17,791





Map Notes

- This map and survey have been prepared in accordance with the Regulations of Connecticut State Agencies, Sections 20-300b-1 through 20-300b-20, "Minimum Standards of Accuracy, Content and Certification for Surveys and Maps" in the State of Connecticut, effective June 21, 1996, amended October 26, 2018.
The type of survey performed and the mapped features depicted hereon are in accordance with the requirements of a Property & Topographic Survey and is intended to note or depict the property with respect to monumentation found such as iron pipes or pins and monuments, lines of occupation such as stone walls & fence lines and existing conditions such as roads, tree lines, contours and limits of inland wetlands.
The contour interval is two (2) foot and compiled from limited field survey and State of Connecticut LIDAR data (2016).
Boundary determination/opinion is based upon a resurvey of the map referenced in note 4A & 4B.
This survey conforms to Horizontal Accuracy Class A-2.
This survey conforms to Topographic Survey Accuracy Class TD.
This survey conforms to Vertical Accuracy Class V-3.
- North arrow and bearings are based upon the map referenced in note 4A.
- Elevations and contours are referenced to North American Vertical Datum (NAVD) of 1988.
- Reference is made to the following maps:
A. "Lot Line Revision Map of Lot-1 Anderson Sunnyside Farm, Kings Highway, North Haven, Connecticut," scale 1" = 60', dated June 04, 2010, prepared by Conklin & Soroka, Inc., map on file in the North Haven Clerk's Office as #J-918C.
B. "Resubdivision Map of Anderson Sunnyside Farm, 320 Kings Highway, North Haven, Connecticut," scale 1" = 60', dated March 25, 2009, revised through December 23, 2009, prepared by Conklin & Soroka, Inc., map on file in the North Haven Clerk's Office as #J-911C.
C. "Resubdivision Anderson Sunnyside Farm, 320 Kings Highway, North Haven, Connecticut," scale 1" = 60', dated August 6, 2002, prepared by Conklin & Soroka, Inc., map on file in the North Haven Clerk's Office as #J-907C.
D. "Subdivision Map Property To Be Conveyed To David S. Wagner, Hartford Turnpike, North Haven, Conn.," scale 1" = 50', dated February 24, 1964, prepared by Joseph B. Burns, map on file in the North Haven Clerk's Office as #J-996.
E. "Subdivision Map of Joseph J. & Frances Muzio, Property Upper State Street & Kings Highway, North Haven, Connecticut," scale 1" = 40', dated March, 1974, prepared by R.J. Schatzlein, map on file in the North Haven Clerk's Office as #J-479.
F. "Plot Plan, Property of Joseph H. & Frances Muzio, Residence Zone R-40," scale 1" = 40', dated July 3, dated 1970, by C. Edward Davis, map on file in the North Haven Clerk's Office as map #J-287.
G. "Subdivision Map, Property of Gaetano Muzio, Gerald J. & Carmela M. Muzio, Joseph J. & Frances Muzio, Salvatore S. Muzio, Victor & Nancy Rose Muzio, Hartford Turnpike & Upper State Street and Kings Highway, North Haven, Conn.," scale 1" = 60', dated November, 1965, prepared by Joseph B. Burns, map on file in the North Haven Clerk's Office as #1144.
H. "Subdivision Louis & Susan Pasquariello, 1970, Hartford Turnpike, North Haven, Connecticut," dated Feb. 1963, by Vincent M. Cangiano, map on file in the North Haven Clerk's Office as #1-946.
I. "Resubdivision Map Property of Susan J. Pasquariello, Kings Highway, North Haven, Conn.," scale 1"50', dated June 17, 1983, prepared by Joseph Burns, map on file in the North Haven Clerk's Office as #1-1018B.
J. "Resubdivision Site Plan, Parcel 'A', 1934 Hartford Turnpike, North Haven, CT," scale 1"30', dated October 16, 2007, revised through November 21, 2007, prepared by John Paul Garcia & Associates, map on file in the North Haven Clerk's Office as #J-888C.
K. "Property Survey Boundary Line Revision, 376 Upper State Street, 296 Kings Highway, North Haven, Connecticut, For Mr. & Mrs. Vincent S. Idrone," scale 1"=40', dated June 25, 1996, prepared by Cascio Behr Engineering, map on file in the North Haven Clerk's Office as #J-514B.

5. Parcel is identified as Tax Lot 1 on the Town of North Haven Assessor's Map 98.

6. Property is not located in a flood hazard zone per Flood Insurance Rate Map (FIRM) Panel 0311 of 0635, New Haven County, Connecticut, Town of North Haven, community number 09009C0311J, map number 311, map revised May 16, 2017.

7. The subsurface utilities depicted hereon conform to the following Utility Quality Levels, as defined by the American Society of Civil Engineers (ASCE) in Document CI/ASCE 38-02 titled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data":

- Sanitary Sewer: QLC
- Storm Sewer: QLC
- Water: QLC and QLD
- Natural Gas: QLC and QLD
- Electric: QLC and QLD
- Communications: QLC and QLD

The subsurface utilities were compiled from parcel evidence, record drawings, and surficial evidence located during the field survey. The Surveyor has not physically exposed the subsurface utilities and makes no guarantee that the subsurface utilities depicted hereon comprise all such utilities within the surveyed area, either in service or abandoned. The Surveyor further does not warrant or guarantee that the subsurface utilities are in the exact location depicted, though they have been plotted, in accordance with the standard of care, from information available.

The contractor is required to utilize the local utility one call system prior to excavation for the purpose of verifying the subsurface utilities in the area.

ZONING SUMMARY TABLE		
ZONING INFORMATION		
PARCEL SIZE	13.938 ACRES	
ASSESSOR'S LOCATION	MAP 98 LOT 01	
ZONING DISTRICT	R-40 DISTRICT	
PROPOSED USE	RESIDENTIAL SUBDIVISION	
ITEM		
MINIMUM LOT AREA	REQUIRED	EXISTING
MINIMUM LOT WIDTH	40,000 SF	607,146 SF
BUILDING SETBACKS	150 FT	970.26 FT
FRONT YARD	50 FT	N/A
SIDE YARD	25 FT	N/A
REAR YARD	25 FT	N/A
MAXIMUM BUILDING HEIGHT (FEET)	35 FT	N/A
MAXIMUM BUILDING COVERAGE	15%	N/A

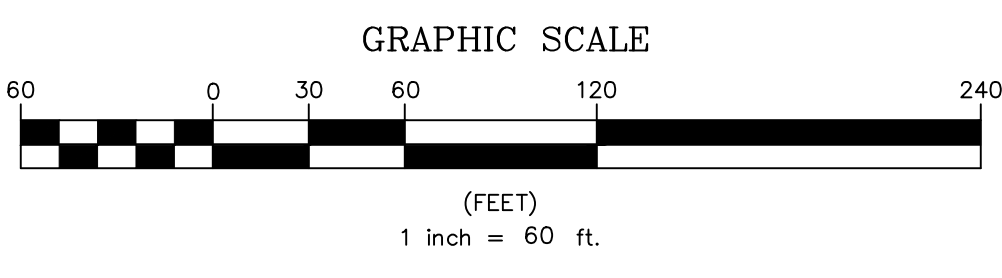
Certification

To my knowledge and belief this map is substantially correct as noted hereon.

John F. Wagenblatt
JOHN F. WAGENBLATT
L.S. No. 17,791



Legend	
	Property Line
	Easement Line
	Index Contour
	Intermediate Contour
	Treeline
	Hedge/Shrub Line
	Stone Wall
	Fence
	Guide Rail
	Stream/Edge of Water
	Limit of Wetlands
	Upland Review/Regulated Area
	Storm Sewer
	Water Main
	Overhead Wire
	Monument
	Iron Pin, Pipe, Rebar, Drill Hole
	Calculated Property Corner
	Stone Pile
	Wetland Flag
	Sign
	Existing Spot Grade
	Guy Wire
	Mailbox
	Utility Pole
	Water Valve
	Hydrant
	Gas Valve
	Drainage Manhole
	Paved-Over Manhole
	Manhole, Utility Type Unknown
	Now or Formerly
	Catch Basin
	Curbside Catch Basin
	Deciduous Tree
	Coniferous Tree
	Shrub
	Bituminous Concrete Surface



Deed References
Volume 902 Page 215

Total Parcel Area
607,146 S.F.
13.938 Acres

Date	Description	Address	Survey Information
09/02/20			

PROPERTY & TOPOGRAPHIC SURVEY

RESUBDIVISION OF ANDERSON SUNNYSIDE FARM

LAND OF GBRSTORZ, LLC

318 KINGS HIGHWAY, TOWN OF NORTH HAVEN
NEW HAVEN COUNTY, CONNECTICUT

LRC GROUP

- Land Planning
- Civil Engineering
- Environmental Services
- Land Surveying
- Landscape Architecture

140 West Street, Suite II
Cromwell, CT 06416
Tel: 860.635.2877

85 Civic Center Plaza, Suite 103
Pondoknickers, NY 12001
Tel: 845.243.2880

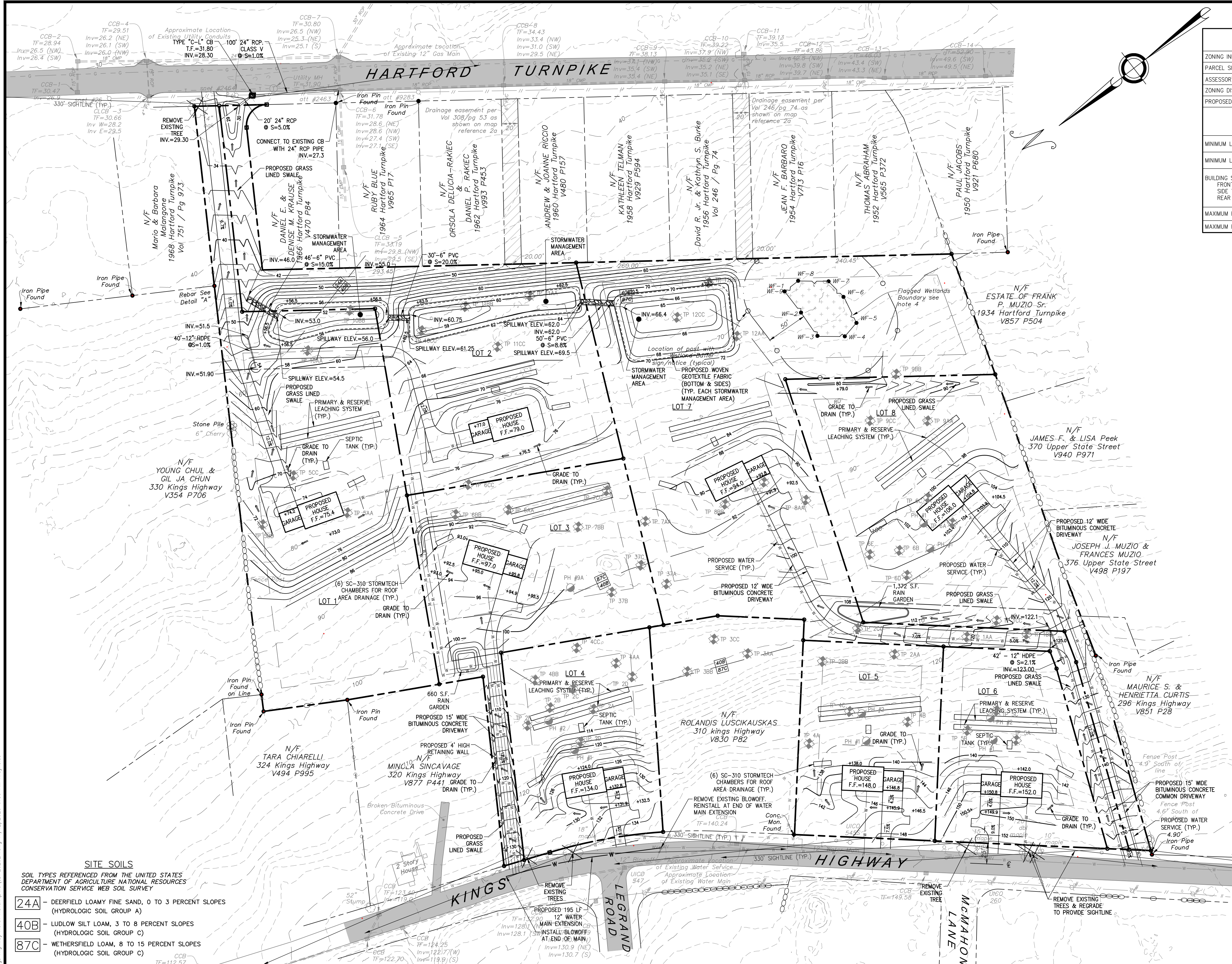
1 International Blvd., Suite 400
Middletown, NJ 07745
Tel: 908.603.5730
www.lrcconsult.com

LRC Engineering & Surveying, DPC
LRC Engineering & Surveying, LLC
LRC Environmental Services, Inc.

Design/Calcs	CAD File	Project No.	Sheet No.
		EX202624.dwg	
Drawn	LRC	20-2624	
Checked	JW	Date	XX/XX/XX
Approved	JW	Scale	1"=60'

EX-1

Z:\LANDRESOURCES\CONSULTANTS\2020\0663\20-2624-McMahon Kings Highway North Haven\DWG\EX202624.dwg 11/7/2020 1:59 PM Reynolds

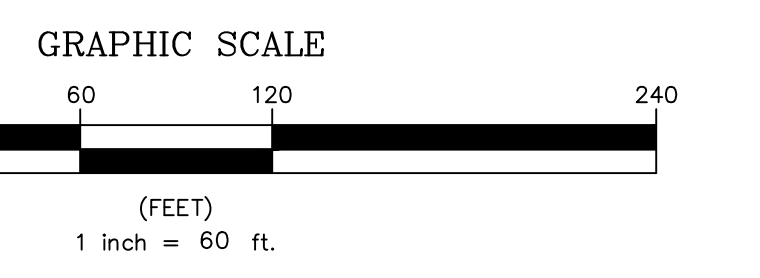


ZONING SUMMARY TABLE

ZONING INFORMATION									
PARCEL SIZE	13.938 ACRES								
ASSESSOR'S LOCATION	MAP 98 LOT 01								
ZONING DISTRICT	R-40 DISTRICT								
PROPOSED USE	RESIDENTIAL SUBDIVISION								
ITEM	REQUIRED / PERMITTED	PROPOSED LOT 1	PROPOSED LOT 2	PROPOSED LOT 3	PROPOSED LOT 4	PROPOSED LOT 5	PROPOSED LOT 6	PROPOSED LOT 7	PROPOSED LOT 8
MINIMUM LOT AREA	40,000 SF	103,712 SF	81,322 SF	64,091 SF	43,405 SF	40,005 SF	122,546 SF	65,446 SF	65,446 SF
MINIMUM LOT WIDTH	150 FT	193.70 FT	254.80 FT	276.20 FT	174.10 FT	169.90 FT	192.40 FT	238.40 FT	267.80 FT
BUILDING SETBACKS									
FRONT YARD	50 FT	220.5 FT	173.6 FT	84.1 FT	56.3 FT	56.4 FT	57.4 FT	138.5 FT	114.5 FT
SIDE YARD	25 FT	47.1 FT	88.0 FT	52.4 FT	40.9 FT	41.5 FT	52.9 FT	52.1 FT	65.3 FT
REAR YARD	25 FT	215.5 FT	157.2 FT	65.6 FT	148.2 FT	149.1 FT	148.2 FT	244.6 FT	121.1 FT
MAXIMUM BUILDING HEIGHT (FEET)	35 FT	> 35 FT	> 35 FT	> 35 FT	> 35 FT	> 35 FT	> 35 FT	> 35 FT	> 35 FT
MAXIMUM BUILDING COVERAGE	15%	2.5%	3.1%	4.0%	5.9%	6.4%	6.4%	6.4%	3.9%

GRADING AND DRAINAGE NOTES:

- THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND NOTES. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK ON THE SITE.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED FOR USE IN FINAL LANDSCAPING.
- CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL MUNICIPALITIES TO SECURE PERMITS AND FEES FOR CONNECTIONS TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL BUILDINGS, AND DRIVEWAYS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- CORRUGATED POLYETHYLENE PIPE (HDPE) AND FITTINGS SHALL BE SOLID TYPE S WITH A SMOOTH INTERIOR WALL BY HANCOR "HI-O", OR EQUAL, WITH SNAP AND SPIN-ON COUPLINGS, AND MEET THE REQUIREMENTS OF ASTM 405, F667, AND ASHTO M294.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED IN AREAS OF ROCK EXCAVATION. STORM SEWERS MAY BE PLACED PRIOR TO PLACING FILL.
- UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
- A ONE-FOOT MINIMUM CLEARANCE BETWEEN WATER, GAS, ELECTRICAL, & TELEPHONE LINES AND STORM SEWERS SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM AND SEPTIC SERVICE LINES WITH A CONCRETE ENCASEMENT.
- THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, OR LANDSCAPED AREAS DISTURBED DURING CONSTRUCTION, TO ITS ORIGINAL CONDITION OR BETTER.
- PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL SO AS TO PREVENT THE SILTING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION GUIDELINES FOR SOIL EROSION AND SEDIMENT POLLUTION CONTROL. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE LOCAL MUNICIPALITIES, WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- ALL SITE WORK, MATERIALS OR CONSTRUCTION, AND CONSTRUCTION METHODS SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE "LOAD BEARING FILL" (COARSE AGGREGATE #2), AND SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENT OF THE CTDOT UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. COMPACTION SHALL BE 95% MAXIMUM MODIFIED PROCTOR DENSITY PER ASTM D 1557 AT 3 PERCENT OF OPTIMUM MOISTURE CONTENT.
- ALL DISTURBANCE INCURRED TO TOWN/STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN/STATE AUTHORITIES.
- SHEETING, SHORING OR OTHER MEANS OF PROTECTION FOR WORKERS, ADJACENT PROPERTY AND THE GENERAL PUBLIC SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL FOLLOW ALL REGULATIONS OF THE TOWN AND ALL REQUIREMENTS OF STATE AND FEDERAL REGULATIONS AS THEY APPLY TO UNDERGROUND TRENCHING AND IN CUT SITUATIONS.
- ALL FIELD CHANGES TO BE APPROVED BY THE TOWN ENGINEER PRIOR TO COMPLETION IN THE FIELD. THE CONTRACTOR SHALL MAINTAIN A SET OF "AS BUILT" PLANS ON THE SITE ON WHICH ALL CHANGES TO THE APPROVED PLANS SHALL BE RECORDED. AT THE COMPLETION OF CONSTRUCTION, THIS SET OF PLANS WILL BE TURNED OVER TO THE DESIGN ENGINEER WHO WILL REVISE THE ORIGINAL PLANS ACCORDINGLY AND WILL FILE THE REVISED PLANS WITH THE TOWN'S ENGINEERING DIVISION AND WITH EACH UTILITY OWNER.
- THE INDIVIDUAL PROPERTY OWNERS WILL BE RESPONSIBLE FOR ROUTINE CLEANING AND MAINTENANCE OF ALL WATER QUALITY MEASURES/RAIN GARDENS/STORMWATER MANAGEMENT AREAS, OUTLET PIPES AND SPILLWAYS ON THEIR PROPERTY. MAINTENANCE AGREEMENTS WILL BE PREPARED AND RECORDED ON THE LAND RECORDS DESCRIBING THE REQUIREMENTS FOR MAINTENANCE AND INSPECTIONS. INDIVIDUAL PLOT PLANS FOR EACH LOT WILL BE REQUIRED AND APPROVED BY TOWN STAFF PRIOR TO CONSTRUCTION.
- SEE LANDSCAPING PLANS FOR LIMITS OF PERMANENT LANDSCAPING, GROUND COVER AND SEEDED AREA.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED UTILITIES, CROSS-EXISTING UTILITIES AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE SITE ENGINEER IN THE EVENT OF ANY UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- A SEPARATE WATER SERVICE SHALL BE PROVIDED FOR EACH LOT.
- WATER SERVICES SHALL BE 1 INCH TYPE K COPPER TUBING WITH COMPRESSION JOINTS UNLESS OTHERWISE DIRECTED BY THE SOUTH CENTRAL REGIONAL WATER AUTHORITY.
- DETECTABLE BLUE WARNING TAPE, 6 INCHES WIDE, LOCATED 12 INCHES ABOVE THE SERVICE SHALL BE INSTALLED IN THE TRENCH.
- WATER SERVICES INSTALLATIONS SHALL BE COORDINATED AND CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF THE SOUTH CENTRAL REGIONAL WATER AUTHORITY.
- THE UNDERGROUND CHAMBER SYSTEM ON EACH PROPERTY IS DESIGNED TO TREAT THE FIRST INCH OF STORMWATER RUNOFF FROM THE ROOF AREAS OF THE PROPOSED HOUSE SHOWN ON THE PLAN. THE SYSTEM CONSISTS OF TWO ROWS OF THREE CHAMBERS (6 CHAMBERS TOTAL) ON A SIX INCH CRUSHED STONE BASE. THE BOTTOM OF THE SYSTEM WILL BE INSTALLED A MINIMUM OF 40 INCHES BELOW FINISHED GRADE.
- THE STORMWATER MANAGEMENT AREAS AND DOWNSTREAM PIPING SHALL BE CONSTRUCTED FIRST PRIOR TO CLEARING OF THE SITE.
- INSTALL GEOTEXT WOVEN GEOTEXTILE 200ST OR APPROVED EQUAL AS A LINER IN EACH STORMWATER MANAGEMENT AREA TO LIMIT EXFILTRATION OF STORMWATER INTO THE UNDERLYING SOILS. THE GEOTEXTILE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. THE GEOTEXTILE SHALL BE INSTALLED SIX INCHES BELOW THE FINISHED GRADES SHOWN FOR EACH STORMWATER MANAGEMENT AREA.



SITE SOILS

- SOIL TYPES REFERENCED FROM THE UNITED STATES DEPARTMENT OF AGRICULTURE NATIONAL RESOURCES CONSERVATION SERVICE WEB SOIL SURVEY
- 24A** - DEERFIELD LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES (HYDROLOGIC SOIL GROUP A)
 - 40B** - LUDLOW SILT LOAM, 3 TO 8 PERCENT SLOPES (HYDROLOGIC SOIL GROUP C)
 - 87C** - WETHERFIELD LOAM, 8 TO 15 PERCENT SLOPES (HYDROLOGIC SOIL GROUP C)

SITE PLAN NOTES:

- REFER TO OTHER PLANS AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE SITE ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS, MATERIALS AND PLAN SPECIFICATIONS TO THE OWNER, TOWN AND SITE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
- THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE DETAIL SHEETS.
- SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOSTS, ETC. WITHIN TEN (10) FEET OF ANY ELECTRIC LINE UNDER 50KV. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINE(S), CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, OR LANDSCAPED AREAS, THAT ARE TO REMAIN, DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
- ALL CONSTRUCTION SHALL COMPLY WITH TOWN STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL STATE AND TOWN PERMITS FOR WORK WITHIN ROAD RIGHT OF WAYS, INCLUDING WATER CONNECTION PERMITS, AN EROSION CONTROL BOND IS REQUIRED BEFORE THE START OF ANY ACTIVITY. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC PROTECTION NECESSARY FOR THIS WORK.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, DESIGN ENGINEER AND TOWN ENGINEER PRIOR TO INSTALLATION.
- INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800)922-4455 OR 811 AND VERIFY ALL LOCATIONS.
- TEST PITS AND PERCOLATION TEST LOCATIONS ARE REFERENCED FROM THE MAP ENTITLED "ANDERSON SUNNYSIDE FARM RE-SUBDIVISION PRELIMINARY SITE & SEPTIC SYSTEM PLAN - LOTS 1-6" PROPOSED ROAD IMPROVEMENT & DETENTION PHASE 1 PROPERTY OF NILA DOUGAN - 320 KINGS HIGHWAY, SHEET 4 OF 5, SCALE 1"=40' DATE 2/28/98 BY LAMBERT ENGINEERING AND ANDERSON SUNNYSIDE FARM RE-SUBDIVISION LOT 7 SITE DEVELOPMENT OF LOT #7 PHASE 1 - 320 KINGS HIGHWAY PROPERTY OF

NILA DOUGAN SHEET 5 OF 5, SCALE AS SHOWN, NO DATE BY LAMBERT ENGINEERING.
 NO SOIL TESTING HAS BEEN CONDUCTED FOR THE LOT LAYOUT DEPICTED ON THE PLAN. THE SIZE OF THE SEPTIC SYSTEM DESIGN DEPICTED ON EACH PROPOSED LOT SHOWS A WORST-CASE SCENARIO TO DEMONSTRATE THAT ALL OF THE PROPOSED LOTS CAN ACCOMMODATE A SEPTIC SYSTEM, HOUSE AND OTHER SITE IMPROVEMENTS. PRIOR TO HOUSE CONSTRUCTION, DETAILED SEPTIC SYSTEM DESIGN PLANS WILL BE PROVIDED TO THE HEALTH DISTRICT FOR APPROVAL. UTILIZING THE HISTORICAL SOIL TESTING INFORMATION, THE SIZE OF THE LEACHING SYSTEMS MAY VARY FROM THE SYSTEM DEPICTED HEREON.
 THE LEACHING SYSTEMS DEPICTED ON THE PLAN ARE SIZED BASED UPON INSTALLING 124 LINEAR FEET OF 12 INCH HIGH CONCRETE GALLERIES AND STONE BACKFILL FOR THE PRIMARY AND RESERVE SYSTEMS.

13. SIGHTLINE INFORMATION DEPICTED ON THE PLAN AT EACH DRIVEWAY IS BASED UPON THE FOLLOWING:
 A DESIGN SPEED OF 40 MPH
 HEIGHT OF EYE & OBJECT OF 3.5 FEET
 LOCATION OF EYE AT 15 FEET FROM EDGE OF PAVEMENT IN DRIVEWAY
 LOCATION OF OBJECT AT MIDPOINT OF LANE OF ROAD
 DECISION SIGHT DISTANCE OF 330 FEET
 REFERENCED FROM A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS PER THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS. THE POSTED SPEED LIMIT IS 30 MPH.

14. THE EXISTING TREES ALONG THE FRONTAGE OF THE PROPERTY SHALL BE REMOVED AND REPLACED BY STREET TREES INSTALLED ALONG THE PROPERTY LINE. REFER TO THE LANDSCAPE PLAN FOR TYPE AND LOCATION.

15. THE WETLAND SOILS ARE DESCRIBED AS WILBRAHAM SOIL SERIES - POORLY DRAINED AS REFERENCED FROM THE WETLAND DELINEATION AND ASSESSMENT REPORT PREPARED BY MARTIN BRODIE IN SEPTEMBER 2020.

Date	Description
09/02/20	Address Survey Information
10/27/20	Address Survey Information & Survey
11/27/20	Town Staff review Comments
11/29/20	Town Staff review Comments

Land Planning
 Civil Engineering
 Environmental Services
 Land Surveying
 Landscape Architecture
 160 West Street
 Cromwell, CT 06416
 Tel: 860.635.2877
 85 Civic Center Plaza, Suite 103
 Middletown, CT 06455
 Tel: 845.243.2880
 1 International Blvd, Suite 400
 Meriden, CT 06450
 Tel: 908.603.5730
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SITE DEVELOPMENT PLAN

RESUBDIVISION OF ANDERSON SUNNYSIDE FARM LAND OF GBRSTORZ, LLC

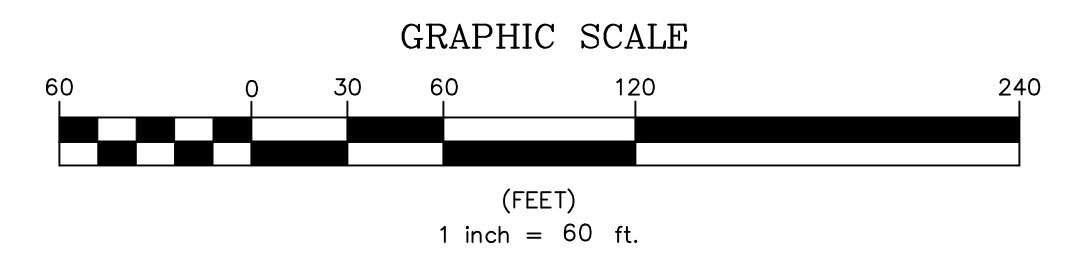
318 KINGS HIGHWAY, TOWN OF NORTH HAVEN NEW HAVEN COUNTY, CONNECTICUT

Design/Calcs	RHR	CAD File	SDP202624.dwg	Sheet No.
Drawn	RHR	Project No.	20-2624	
Checked	JW/REM	Date	8/27/20	
Approved	JW/REM	Scale	1"=60'	

SDP-1

EROSION CONTROL NOTES:

- AT ANY PARTICULAR TIME, LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. RE-STABILIZATION SHALL BE SCHEDULED AS SOON AS POSSIBLE. DO NOT WAIT FOR HOUSE CONSTRUCTION TO BE COMPLETED FOR STABILIZATION OF GRASS AND PAVED AREAS TO PROCEED. IF PERMANENT SLOPES CAN NOT BE COMPLETED IMMEDIATELY UPON THEIR PLACEMENT, TEMPORARY MULCH OR GRASS COVER SHALL BE ESTABLISHED.
- SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS AT THE LOCATIONS SHOWN ON THE PLANS, AND STAKED IN PLACE. ALL SUCH PROTECTIVE MEASURES SHALL BE IN PLACE PRIOR TO ANY CUTTING OR FILLING PROCEEDS.
- EXISTING CATCH BASINS SHALL BE PROTECTED WITH SILT FENCE, HAY BALES, OR SILT SACKS THROUGHOUT THE CONSTRUCTION PERIOD. THE STRUCTURES SHALL BE ENCLOSED COMPLETELY AT LOW POINTS ON SLOPED AREAS. THE SILT FENCE SHALL FORM A POCKET TO TRAP WATER IMMEDIATELY UPSTREAM FROM THE STRUCTURE. STABILIZATION OF GRASS AND PAVED AREAS SHALL BE COMPLETE BEFORE REMOVAL OF THE FENCE.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL".
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION IN ANY WATERSED AREA UNLESS SPECIFIC PERMISSION IS OBTAINED FROM THE TOWN TO OTHERWISE PROCEED FOR SPECIFIC AREAS.
- ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE STABILIZED WITH EITHER PAVEMENT, GRASS OR APPROVED GROUND COVER. CONTROL MEASURES SHALL BE CHECK BY THE RESPONSIBLE INDIVIDUAL OR HIS DESIGNATED REPRESENTATIVE BEFORE AND AFTER ALL RAIN STORMS AND AFTER EACH WORKING DAY.
- THE INDIVIDUAL LOT CONSTRUCTION CONTRACTOR IS RESPONSIBLE TO IMPLEMENT THIS EROSION AND SEDIMENT CONTROL PLAN. IT IS THE RESPONSIBILITY OF THE SITE CONTRACTOR FOR THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN.
- ADDITIONAL CONTROL MEASURES SHALL BE IMMEDIATELY INSTALLED, AS REQUIRED BY THE INTENT OF THIS PLAN AND/OR IF REQUESTED BY THE TOWN. UNUSED SILT FENCE SHALL BE KEPT AVAILABLE ON THE SITE FOR THIS PURPOSE.
- ALL DISTURBED AND STOCKPILED MATERIALS SHALL BE SEED AS SOON AS POSSIBLE. IN THE CASE OF WINTER CONSTRUCTION, MULCH SHALL BE PLACED AND EROSION CONTROL MEASURES PLACED TO PREVENT WASHOUTS OF THE STOCKPILED MATERIAL. THE SAME REQUIREMENTS MAY BE NEEDED FOR CONSTRUCTION DURING OTHER SEASONS AS DIRECTED BY THE TOWN AND THE ENGINEER.
- SEEDING MIXTURES SHALL BE IN COMPLIANCE WITH CHAPTER 6 OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL". TEMPORARY SEEDING SHALL BE USED WHEN THE GROWING SEASON REMAINING IS LESS THAN 60 DAYS. PERMANENT SEEDING SHALL BE USED WHEN MORE THAN 60 DAYS REMAINS. FOR SEASONS WHEN SEEDING IS NOT POSSIBLE, SUCH AS THE WINTER OR THE DRY PART OF THE SUMMER, MULCH SHALL BE USED AT THE RATE OF TWO TONS PER ACRE. PERMANENT SEEDING SHALL REPLACE TEMPORARY SEEDING AS SOON AS THE SEASON PERMITS AND AS APPROVED BY THE TOWN ENGINEER. REFER THE SEEDING CHARTS ON THE DETAIL SHEETS.
- HAY MULCH SHOULD BE APPLIED AT THE RATE OF TWO TONS PER ACRE (40 BALES PER ACRE) ON AREAS TO BE LEFT BARE FOR UP TO 30 DAYS. TEMPORARY SEEDING SHOULD BE USED ON THOSE AREAS FOR MORE THAN 30 DAYS.
- SOIL STABILIZATION SHALL BE COMPLETED WITHIN FIVE (5) DAYS OF CLEARING OR INACTIVITY IN CONSTRUCTION.
- EOLS CONTROLS BE INSPECTED WEEKLY AND AFTER RAINFALL EVENTS OF GREATER THAN 0.1 INCH.
- THE CONTRACTOR SHALL COORDINATE INSPECTIONS BY TOWN STAFF PRIOR TO AND DURING CONSTRUCTION.
- COVER OR WATER STOCKPILE AREAS AND SITE TO PREVENT WIND EROSION AS NEEDED.
- SOIL AND EROSION CONTROLS MUST BE INSPECTED BY THE ZONING ENFORCEMENT OFFICER BEFORE WORK MAY COMMENCE.
- THE OWNER MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL UNTIL ALL ACTIVITY IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.



Date	Description
02/02/20	Address Survey Information
02/22/20	Address Survey Information & Survey
03/17/20	Address Survey Information & Survey
03/17/20	Town Staff review Comments
03/17/20	Town Staff review Comments

LRG GROUP

- Land Planning
- Civil Engineering
- Environmental Services
- Land Surveying
- Landscape Architecture

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www.lrgconsult.com

EROSION CONTROL PLAN

RESUBDIVISION OF ANDERSON SUNNYSIDE FARM
LAND OF GBRSTORZ, LLC
318 KINGS HIGHWAY, TOWN OF NORTH HAVEN
NEW HAVEN COUNTY, CONNECTICUT

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EC-1

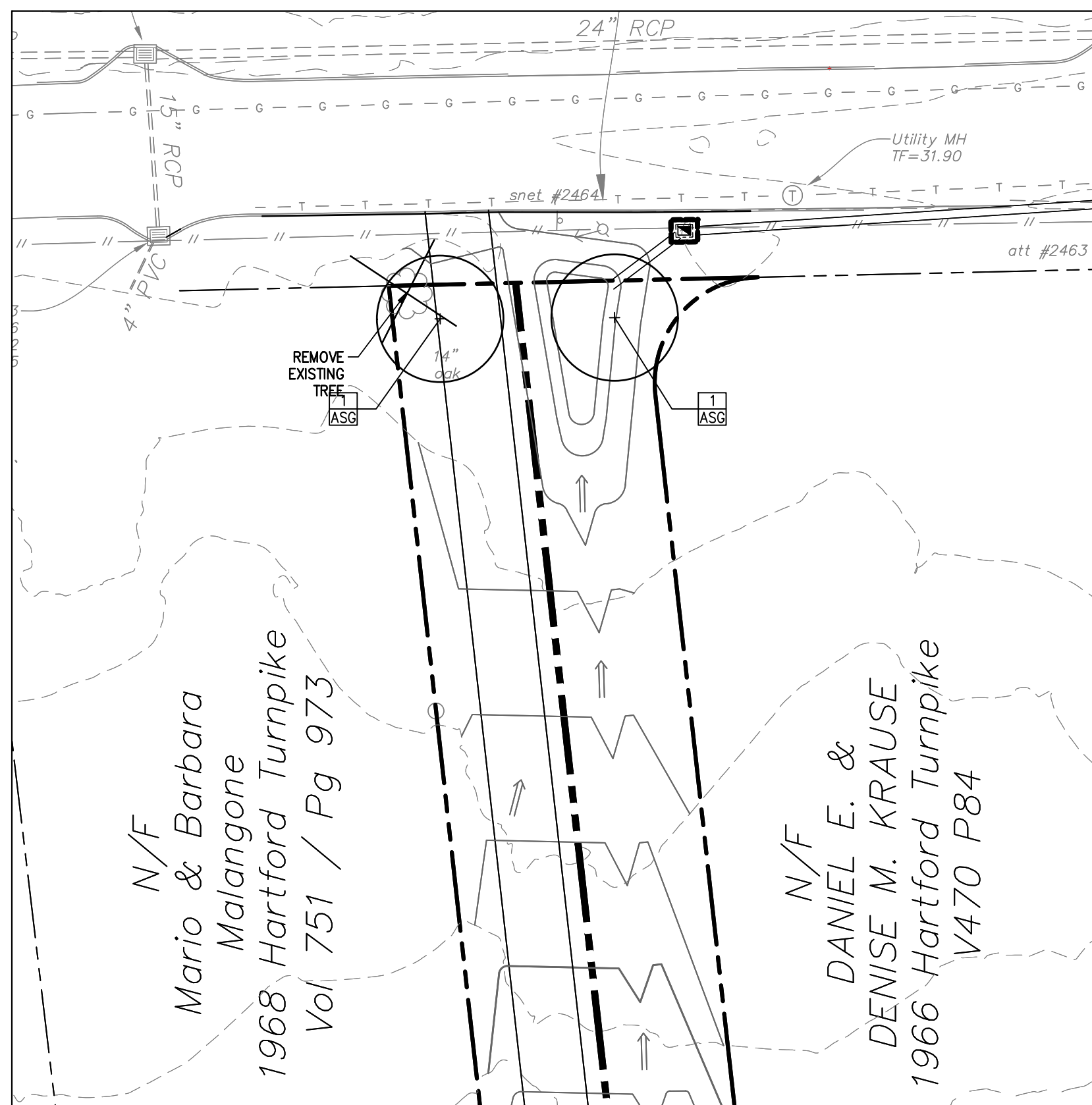
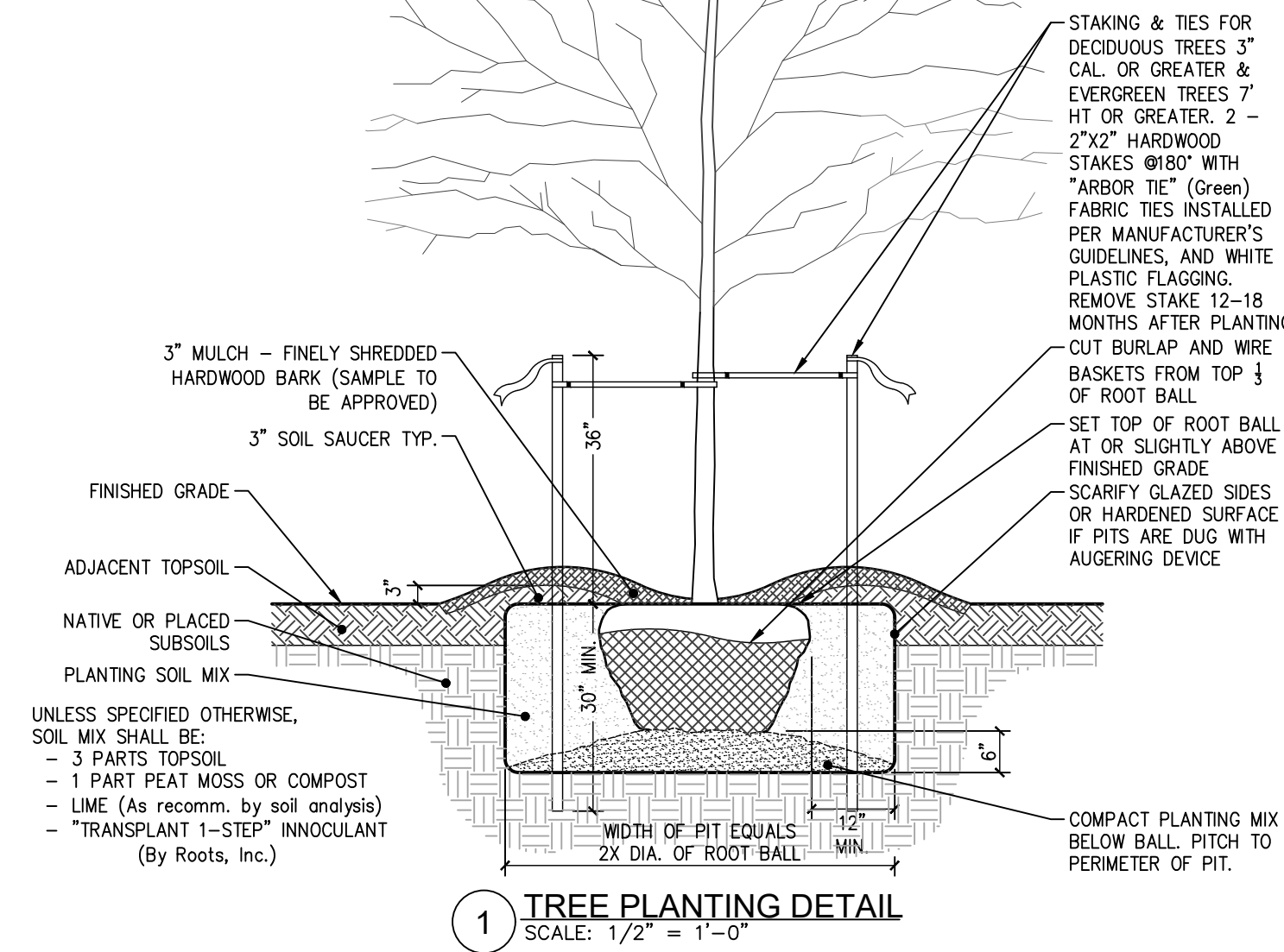
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PLANTING NOTES:

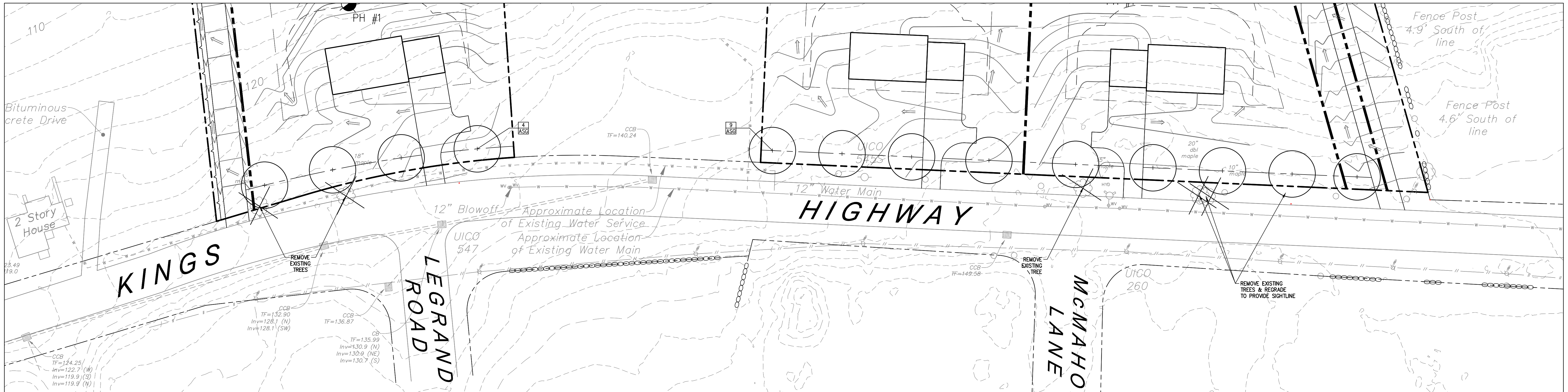
- THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. PLEASE REFER TO THE SITE LAYOUT PLAN, LIGHTING PLAN, GRADING PLAN AND UTILITIES PLAN FOR ALL OTHER INFORMATION.
- THE CONTRACTOR SHALL GUARANTEE THAT ALL PLANTS, TREES, AND SHRUBS SHALL BE HEALTHY AND FREE OF DISEASE FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION AND ACCEPTANCE BY OWNER OR LANDSCAPE ARCHITECT. CONTRACTOR SHALL REPLACE ANY DEAD OR UNHEALTHY PLANTS AT CONTRACTOR'S EXPENSE. PLANT MATERIAL REPLACEMENTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM DATE OF REPLACEMENT. FINAL ACCEPTANCE SHALL BE MADE IF ALL PLANTS MEET THE GUARANTEE REQUIREMENTS INCLUDING MAINTENANCE. MAINTENANCE RESPONSIBILITIES INCLUDE CULTIVATING, SPRAYING, WEEDING, WATERING, TIGHTENING GUYS, PRUNING, FERTILIZING, MULCHING, AND ANY OTHER OPERATIONS NECESSARY TO MAINTAIN PLANT VIABILITY. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND CONTINUE UNTIL THE END OF THE ONE YEAR GUARANTEE PERIOD.
- THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. IN THE EVENT OF A DISCREPANCY BETWEEN QUANTITIES SHOWN IN THE PLANT SCHEDULE AND THOSE REQUIRED BY THE DRAWINGS, THE LARGER SHALL APPLY.
- ALL SHRUB MASSINGS SHALL BE MULCHED TO A DEPTH OF 3". ANNUAL AND PERENNIAL BEDS SHALL BE MULCHED TO A DEPTH OF 2" WITH SHREDDED HARDWOOD BARK MULCH.
- NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED AND APPROVED BY ENGINEER. STAKING THE LOCATION OF ALL TREES AND SHRUBS SHALL BE COMPLETED PRIOR TO PLANTING FOR APPROVAL BY THE OWNER OR LANDSCAPE ARCHITECT. STAKING OF THE INSTALLED TREE MUST BE COMPLETED THE SAME DAY AS IT IS INSTALLED. ALL TREES SHALL BE STAKED OR GUYED PER DETAIL. SEE SHEET DN-5 FOR PLANTING DETAILS.
- COORDINATE PLANT MATERIAL LOCATIONS WITH SITE UTILITIES. SEE SITE LAYOUT, GRADING AND UTILITY DRAWINGS FOR STORM, SANITARY AND WATER LINES. SEE LIGHTING PLAN FOR ELECTRICAL AND LIGHTING LAYOUT AND DETAILS. UTILITY LOCATIONS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SUBGRADE, AND BLASTED ROCK SHALL BE REMOVED FROM WITHIN TRAFFIC ISLANDS TO BE LANDSCAPED TO A DEPTH OF 2" OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITHIN ISLANDS WITH MODERATELY COMPACTED LOAM OR SANDY LOAM FREE FROM STONES AND RUBBISH 1" OR GREATER IN DIAMETER AND ANY OTHER MATERIAL HARMFUL TO PLANT GROWTH AND DEVELOPMENT. PLANTING INSTALLATION WITHIN ISLANDS SHALL BE AS DETAILED AND CONTAIN PLANTING MIX AS SPECIFIED.
- PLANTING SOIL MIXTURE FOR TREES AND SHRUBS:
 - 1 PART PEAT MOSS
 - 3 PARTS TOPSOIL
 - FERTILIZER/LIME (APPLY AS RECOMMENDED BY SOIL ANALYSIS)
 - MYCORRHIZA INOCULANT - "TRANSPLANT 1-STEP" AS MANUFACTURED BY ROOTS, INC. OR APPROVED EQUAL. USE PER MANUFACTURER'S RECOMMENDATIONS FOR TREES AND SHRUBS.
- TIME OF PLANTING: NEW PLANT MATERIALS SHALL BE INSTALLED BETWEEN APRIL 1 AND JUNE 1, OR AFTER SEPTEMBER 15TH AND NO LATER THAN OCTOBER 31ST.
- TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6". CONTRACTOR SHALL SUBMIT TOPSOIL TO A CERTIFIED TESTING LABORATORY TO DETERMINE PH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. THE CONTRACTOR SHALL SUBMIT THE TEST RESULTS FROM REGIONAL EXTENSION OFFICE OF USDA TO THE OWNER OR LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR GOOD PLANT GROWTH AND PROPER SOIL ACIDITY RECOMMENDED FROM THE TOPSOIL TEST.
- ALL SLOPES GREATER THAN 3:1 RECEIVING A GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET.

NOTE:

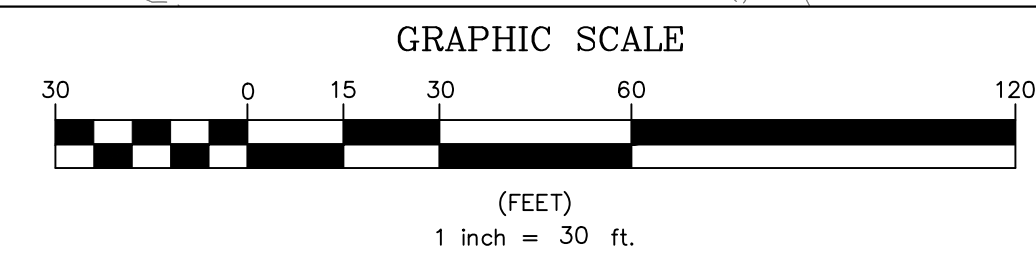
PRUNE TREES IN ACCORDANCE WITH APPROVED HORTICULTURAL STANDARDS (ANLA) IN ORDER TO PRESERVE THE NATURAL FORM OF THE SPECIFIC PLANTS. IF APPLICABLE & APPROVED BY THE LANDSCAPE ARCHITECT, ONE-FOURTH TO ONE-THIRD OF THE WOOD SHALL BE REMOVED BY THINNING OUT TO BALANCE ROOT LOSS DUE TO TRANSPLANTING.



HARTFORD TURNPIKE FRONTAGE:



KINGS HIGHWAY FRONTAGE:



PLANT LIST:

CODE	QTY.	BOTANICAL NAME	COMMON NAME	ROOT	SIZE INSTALLED	SIZE MATURE	COMMENTS
ASG	15	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	B&B	2-2.5" cal.	55' ht.	Upright oval crown

DECIDUOUS TREES:

Date	Description

LRC GROUP

- Land Planning
- Civil Engineering
- Environmental Services
- Land Surveying
- Landscape Architecture

160 West Street, Suite II
Cromwell, CT 06416
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1 International Blvd, Suite 400
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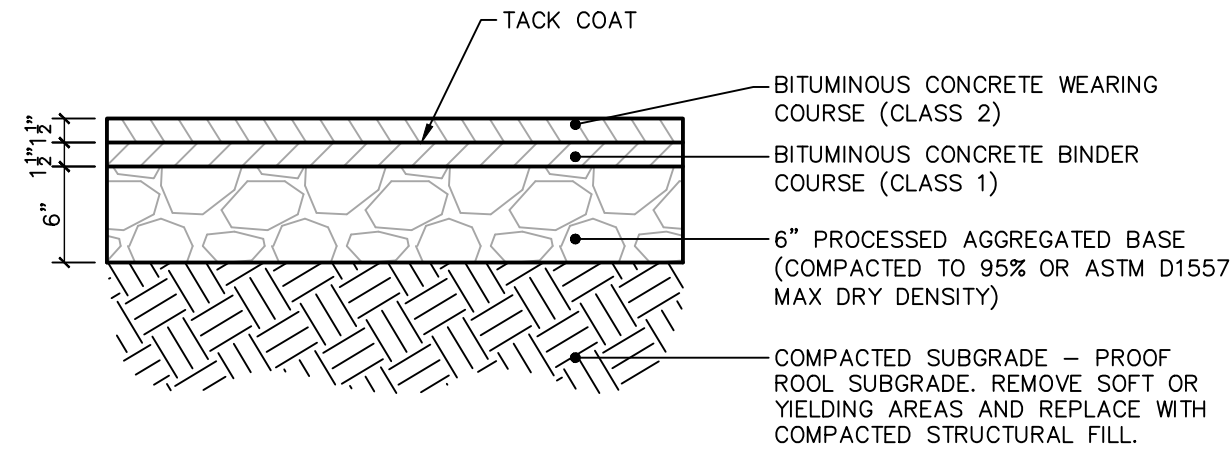
LRC Engineering & Surveying, DPC
LRC Engineering & Surveying, LLC
LRC Environmental Services, Inc.

STREET TREE PLAN

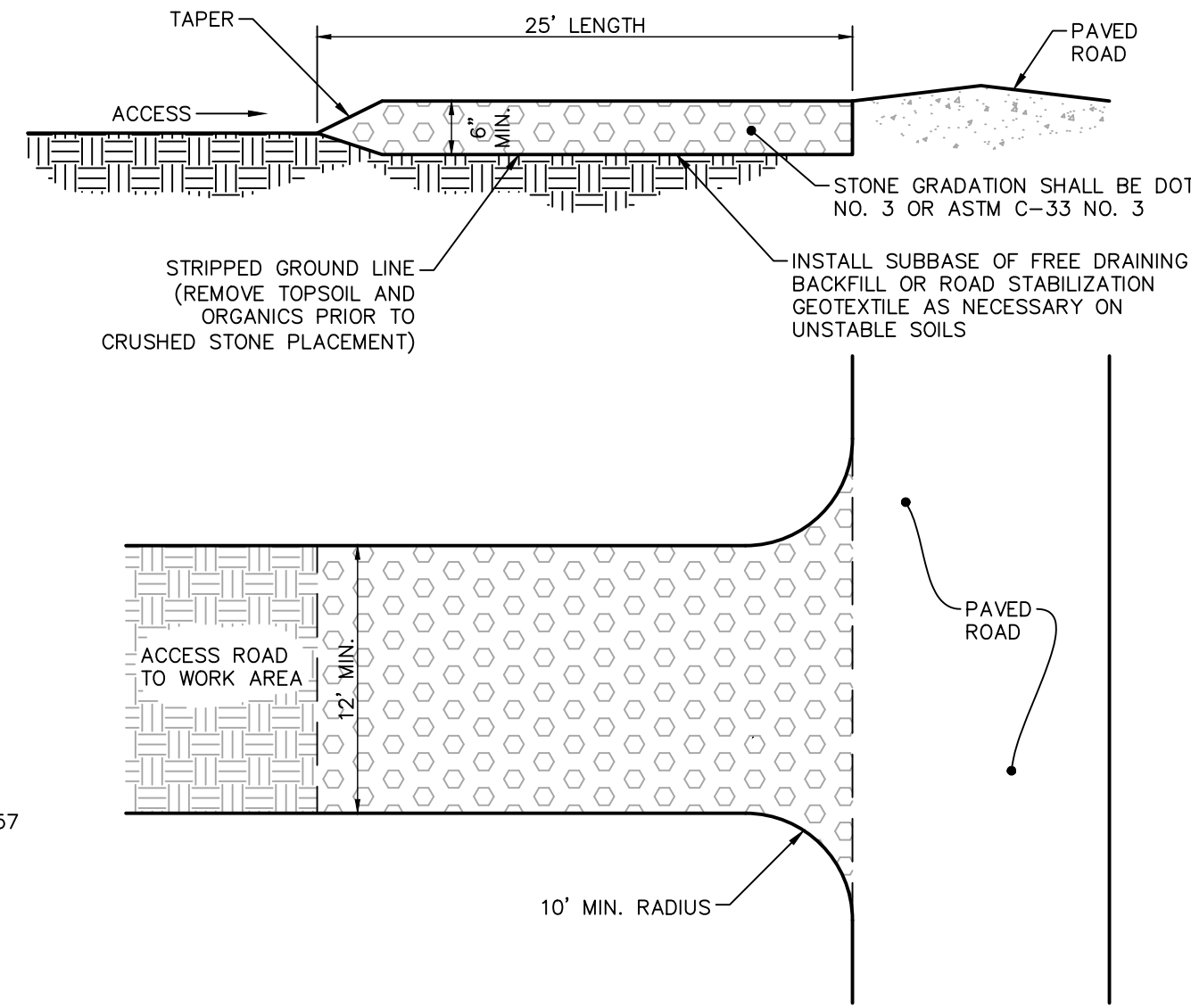
RESUBDIVISION OF ANDERSON SUNNYSIDE FARM
LAND OF GBRSTORZ, LLC
318 KINGS HIGHWAY, TOWN OF NORTH HAVEN
NEW HAVEN COUNTY, CONNECTICUT

Design/Calcs: RHR CAD File: LL202624.dwg Sheet No. 11-1
Drawn: RHR Project No. 20-2624
Checked: JW/REM Date: 9/02/20
Approved: JW/REM Scale: 1"=30'

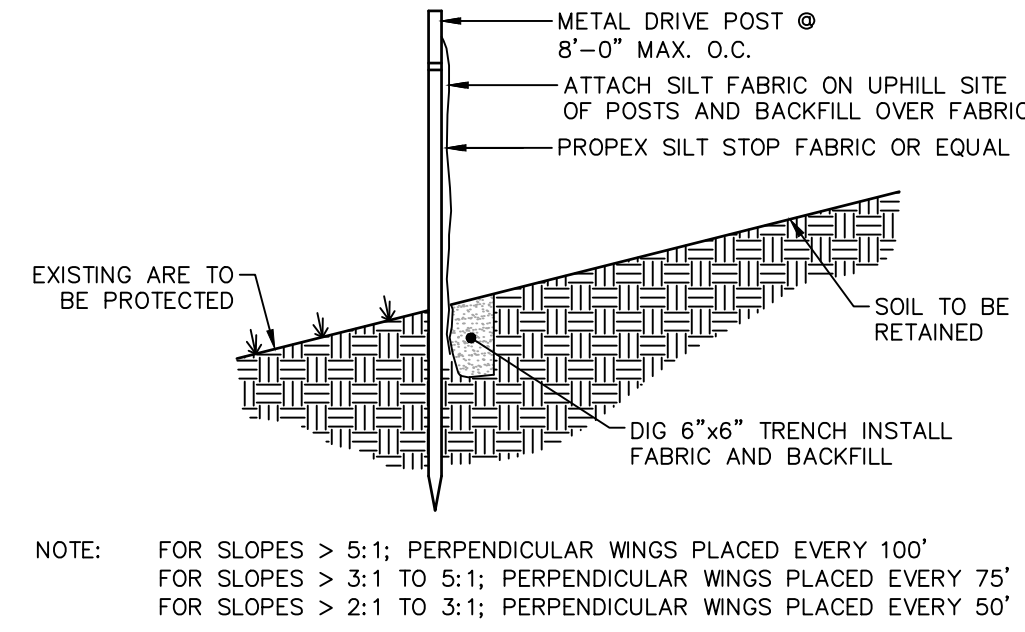
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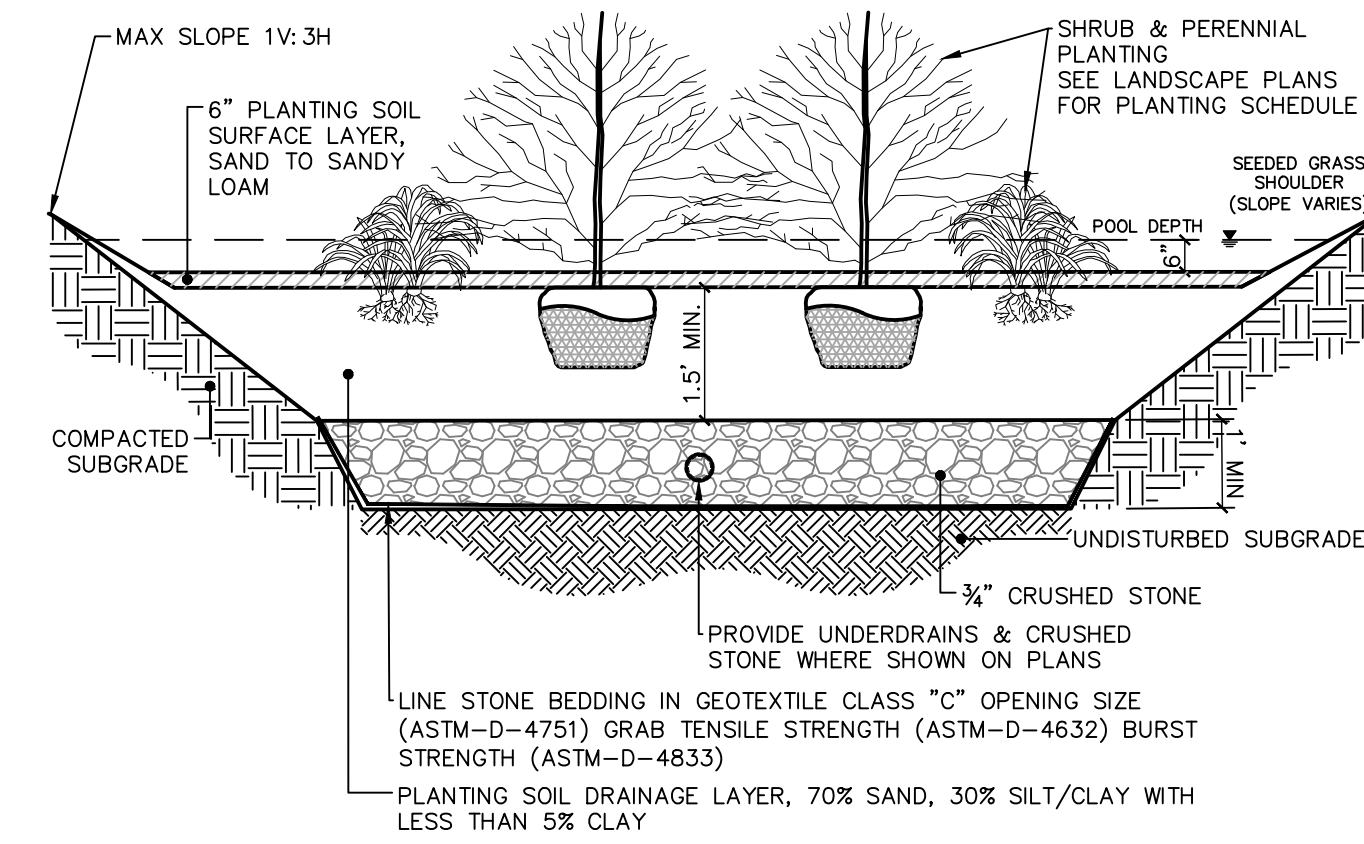
BITUMINOUS CONCRETE PAVEMENT
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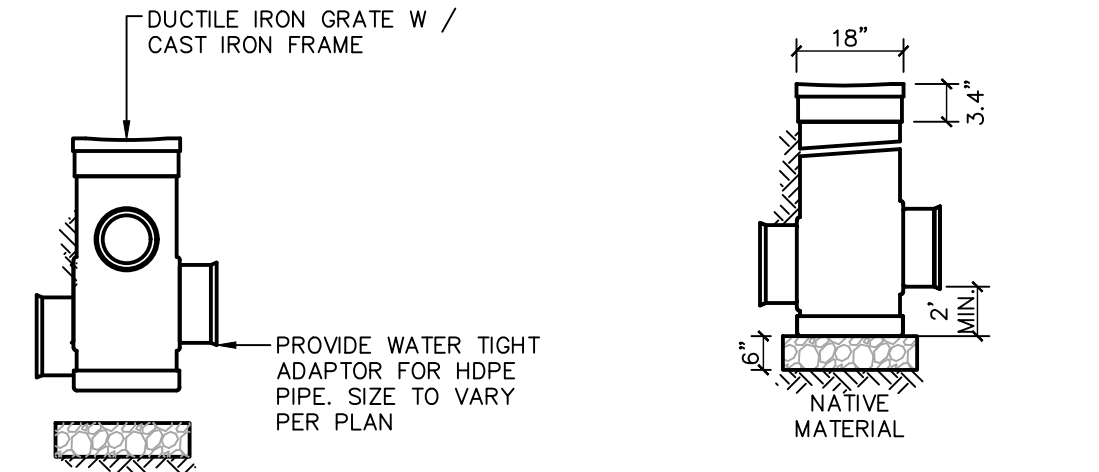
CONSTRUCTION ENTRANCE DETAIL
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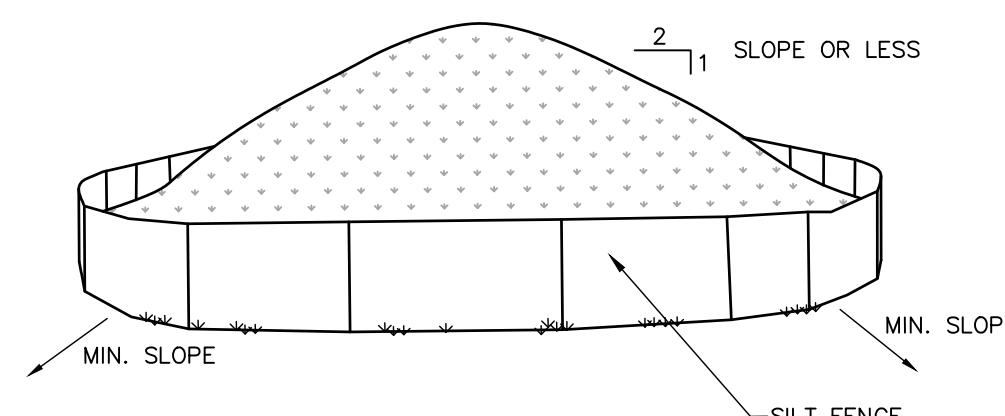
SILT FENCE DETAIL
SCALE: N.T.S.



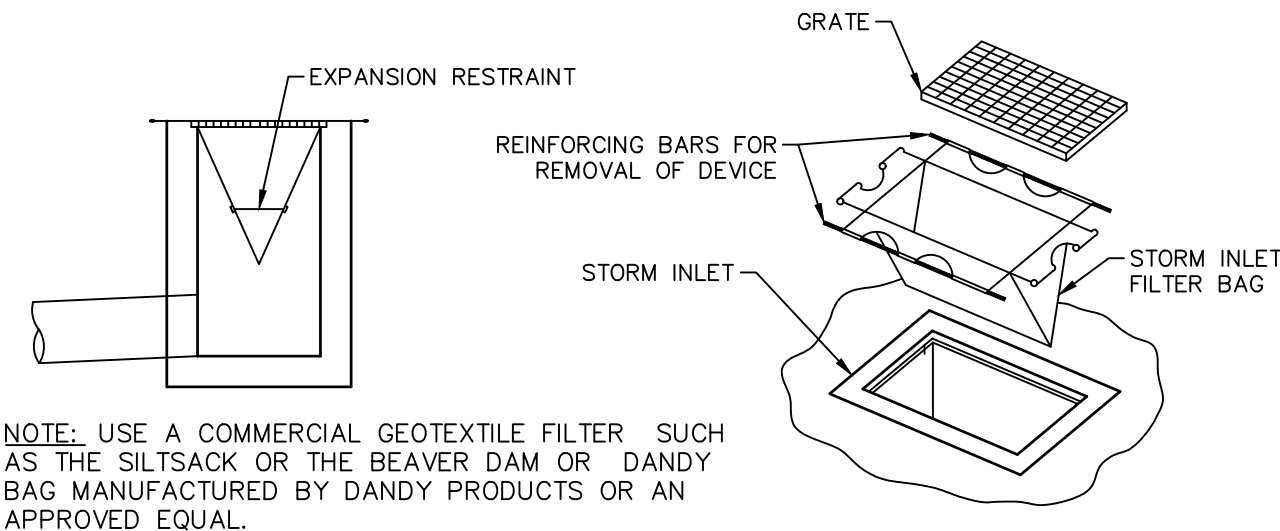
RAIN GARDEN DETAIL
SCALE: 1/4" = 1'-0"



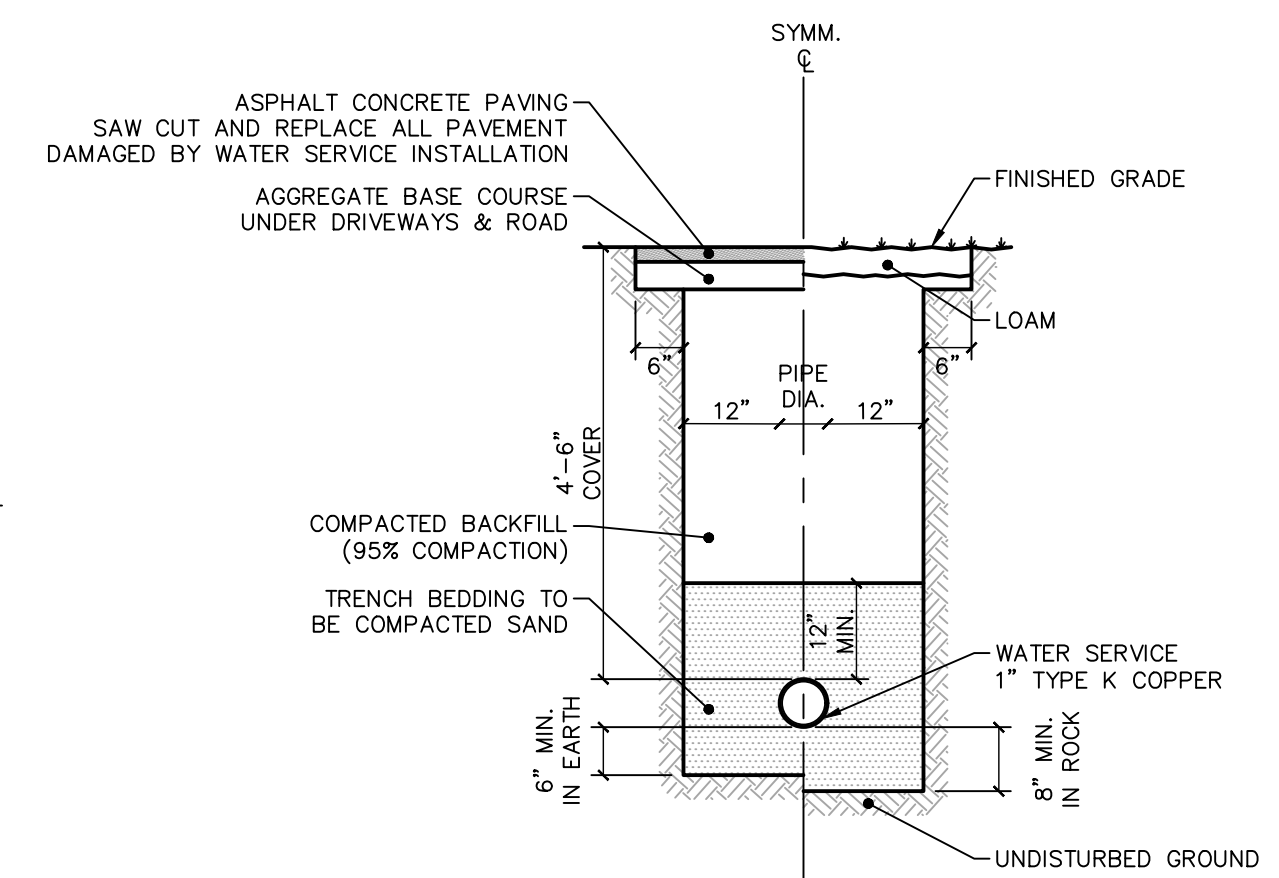
NYLOPLAST 18" YARD DRAIN
SCALE: N.T.S.



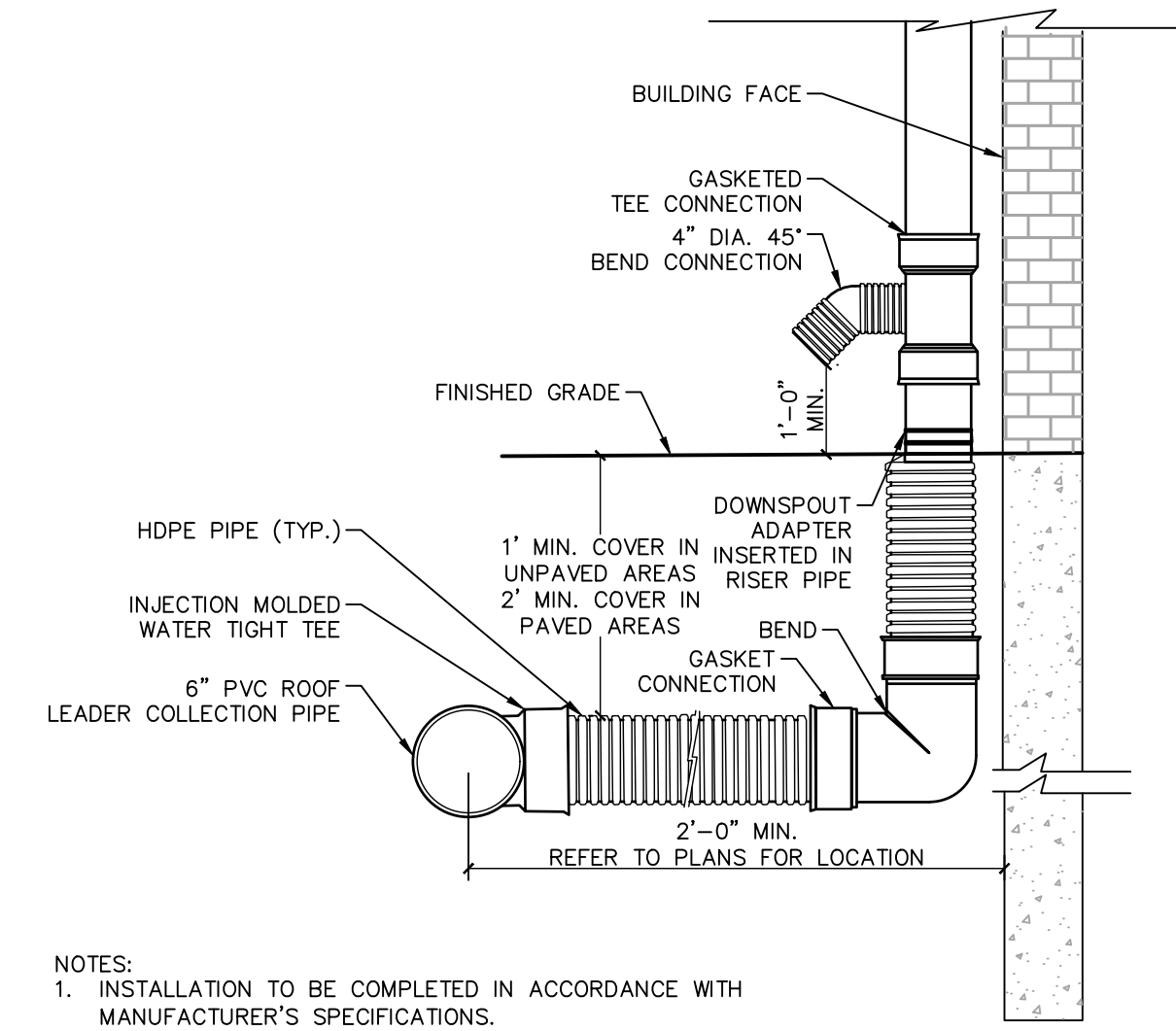
MATERIALS STOCKPILE DETAIL
SCALE: N.T.S.



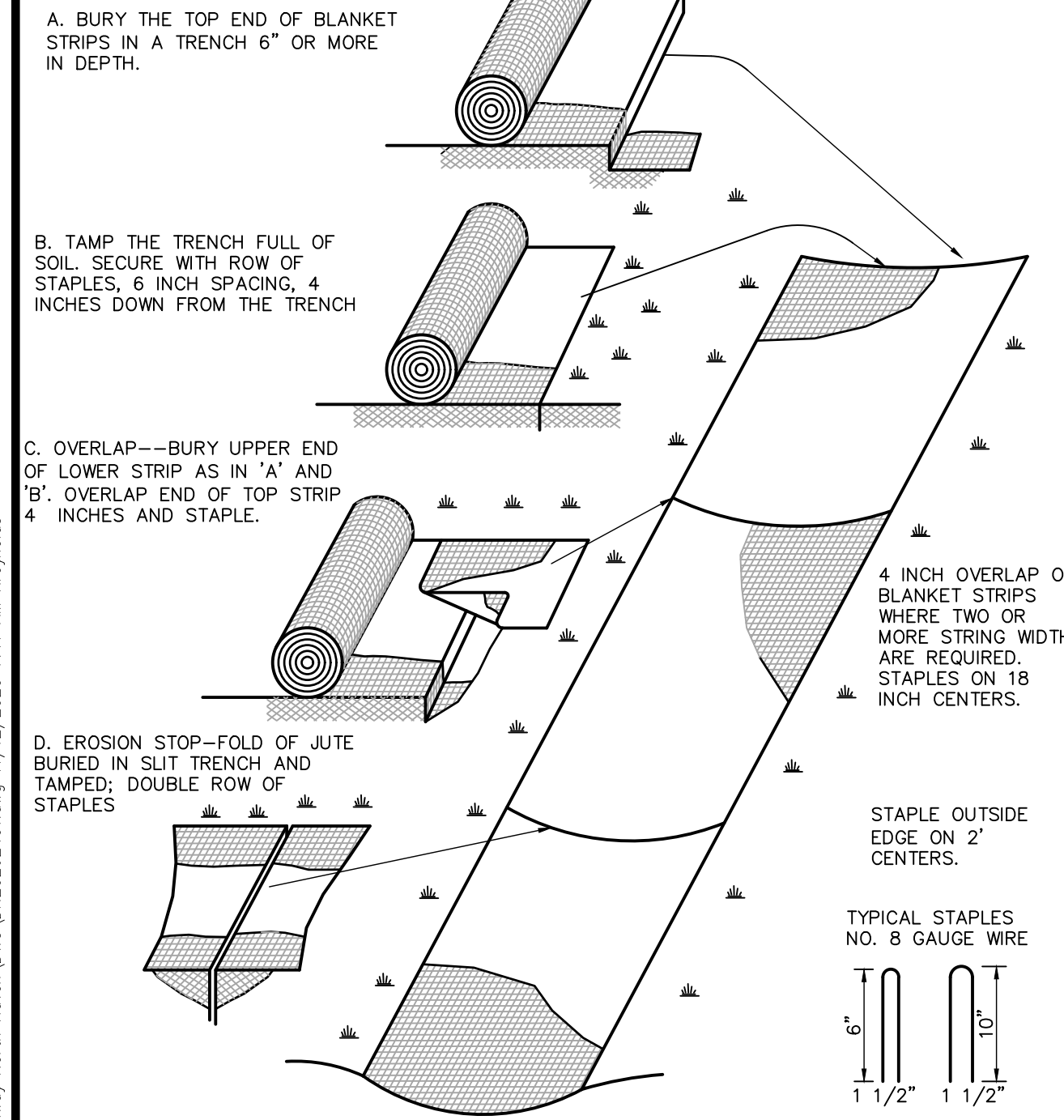
SILT SACK DETAIL
SCALE: N.T.S.



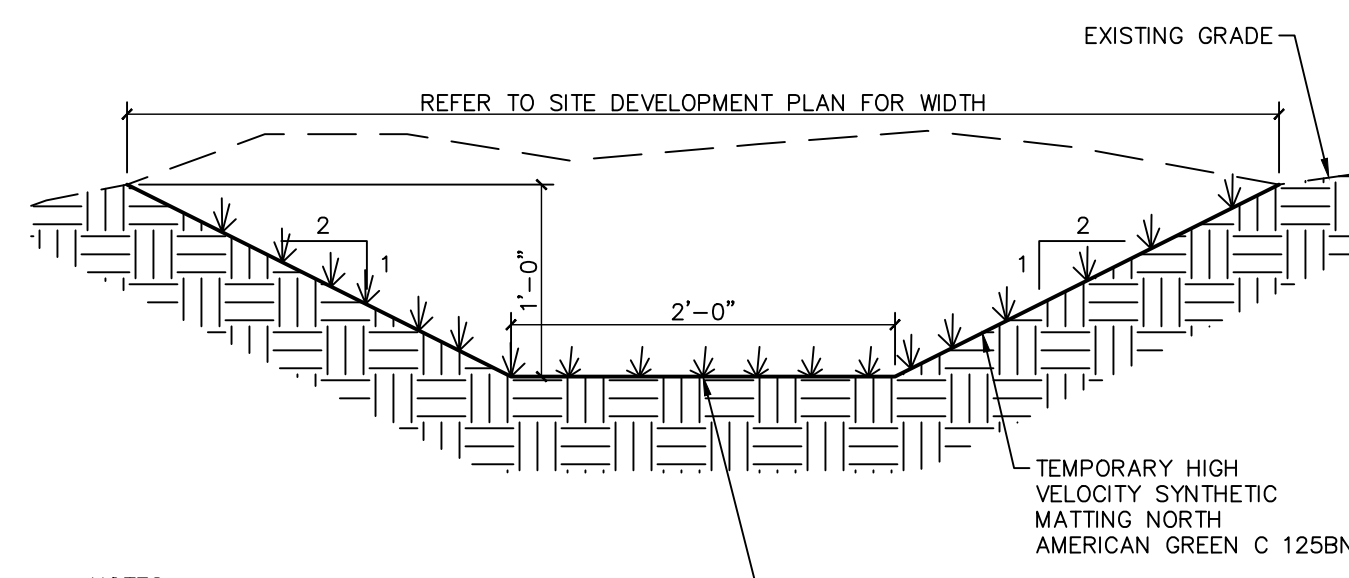
WATER SERVICE TRENCH DETAIL
SCALE: 1/2" = 1'-0"



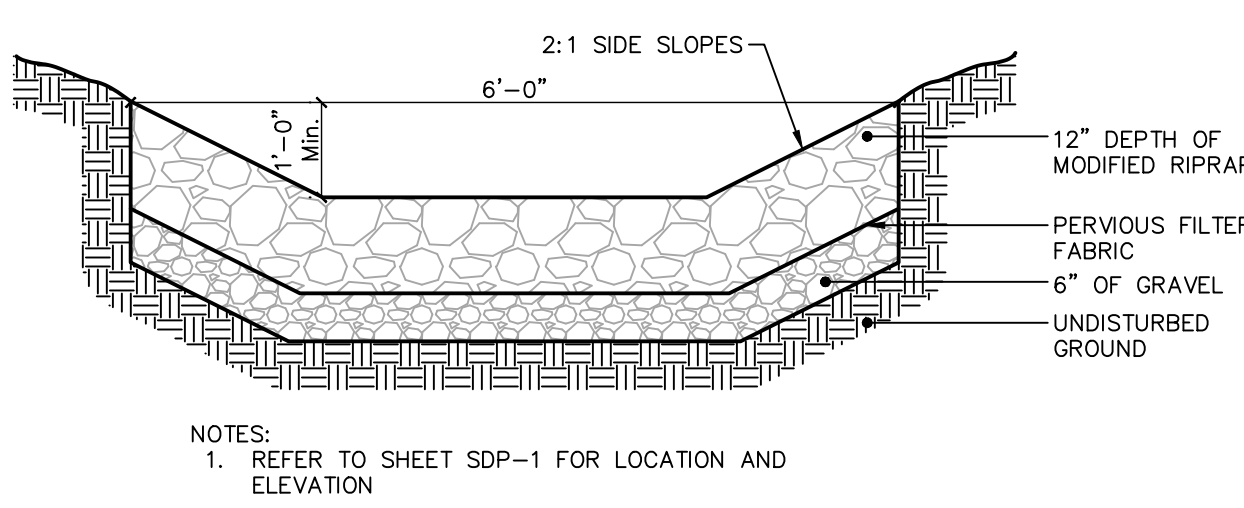
ROOF LEADER COLLECTION PIPE OVERFLOW DETAIL
SCALE: 1" = 1'-0"



EROSION CONTROL BLANKET DETAIL
SCALE: N.T.S.



GRASSED LINED SWALE DETAIL
SCALE: 1" = 1'-0"



SPILLWAY DETAIL
N.T.S.

NOTES:
1. BLANKET IS TO BE INSTALLED ON ANY FINISHED SLOPES THAT ARE 4:1 OR GREATER.
2. 4:1 SLOPES OR STEEPER WHERE INDICATED ON THE CONTRACT DRAWINGS:
EROSION CONTROL BLANKET SHALL BE NORTH AMERICAN GREEN SC 150 OR SHALL BE A GREEN, WOOD FIBER MAT CONSTRUCTED FROM 100% ASPEN CURLED FIBERS WITH A GREEN PHOTO-DEGRADABLE NETTING APPLIED TO ONE SIDE. EROSION CONTROL BLANKET TO BE AS MANUFACTURED BY AMERICAN EXCELSIOR COMPANY, ARLINGTON, TX, "QUICK GRASS" OR APPROVED EQUAL.

NOTES:
1. APPLY EROSION CONTROL BLANKET IN DIRECTION OF WATER FLOW AND IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS.
2. EXACT CHANNEL DIMENSIONS, SLOPE, SIDE SLOPES, DEPTH TO BE INSTALLED AS SHOWN ON THE SD DRAWINGS.
INVERT—IDENTIFIED AS THE FLOW LINE ON THE PLAN (SEE PLAN FOR VARIABLE SLOPES)

NOTES:
1. REFER TO SHEET SDP-1 FOR LOCATION AND ELEVATION

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		DETAILS RESUBDIVISION OF ANDERSON SUNNYSIDE FARM LAND OF GBRSTORZ, LLC 318 KINGS HIGHWAY, TOWN OF NORTH HAVEN NEW HAVEN COUNTY, CONNECTICUT	
Design/Calcs LRC Draw LRC Checked JW/REM Approved JW/REM	CAD File DN20262401.dwg Project No. 20-2624 Date 08/27/2020 Scale AS NOTED	Sheet No. DN-1	LRC Engineering & Surveying, LLC LRC Environmental Services, Inc.

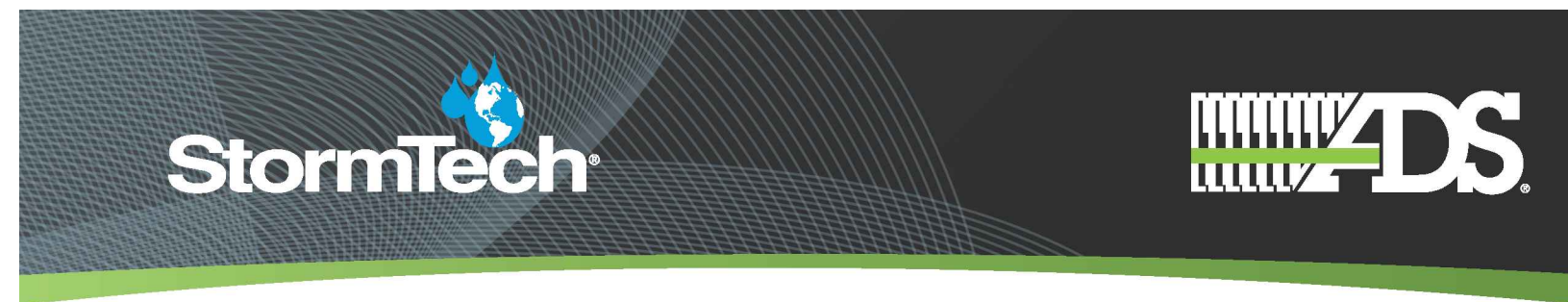
Figure PS-3 Seed Mixtures for Permanent Seeding

No.	Seed Mixture (Variety) ⁴	Lbs/Acre	Lbs/1,000 Sq. Ft.
15	Kentucky Bluegrass	20	.45
	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Total	45	1.00
25	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Redtop (streaker, Common)	2	.05
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Saratoga, Lincoln)	20	.45
	Total	42	.95
35	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Bird's-foot Trefoil (Empire, Viking) with inoculant ¹	8	.20
	Tall Fescue (Kentucky 31) or Smooth Bromegrass (Saratoga, Lincoln)	20	.45
	Total	48	1.10
45	Creeping Red Fescue (Pennlawn, Wintergreen) or Tall Fescue (Kentucky 31)	20	.45
	Redtop (streaker, Common)	2	.05
	Bird's-foot Trefoil (Empire, Viking) with inoculant ¹	8	.20
	Total	30	.70
55	White Clover	10	.25
	Perennial Rye Grass	2	.05
		10	.25
	Total	12	.30
65	Creeping Red Fescue	10	.50
	Redtop (streaker, Common)	2	.05
	Perennial Rye Grass	20	.50
	Total	42	1.05
75	Smooth Bromegrass (Saratoga, Lincoln)	15	.35
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Bird's-foot Trefoil (Empire, Viking) with inoculant ¹	10	.25
	Total	30	.70
85	Switchgrass (Blackwell, Shelter, Cave-in-rock)	10 ¹	.25
	Weeping Lovegrass	3	.07
	Little Bluestem (Blaze, Aldous, Camper)	10 ¹	.25
	Total	23	.57
95	Creeping Red Fescue (Pennlawn, Wintergreen)	10	.25
	Crown Vetch (Chemung, Penngriff) with inoculant ¹	15	.35
	(or Flatpea (Lathco) with inoculant ¹)	(30)	(.75)
Tall Fescue (Kentucky 31) or Smooth Bromegrass (Saratoga, Lincoln)	2	.05	
Redtop (streaker, Common)	2	.05	
	Total	42 (or 57)	1.00 (or 1.40)
105	Creeping Red Fescue (Pennlawn, Wintergreen)	20	.45
	Redtop (streaker, Common)	2	.05
	Crown Vetch (Chemung, Penngriff) with inoculant (or Flatpea (Lathco) with inoculant)	15 (30)	.35 (.75)
	Total	37 (or 52)	.85 (or 1.25)
115	Bird's-foot Trefoil (Empire, Viking) with inoculant ¹	8	.20
	Crown Vetch (Chemung, Penngriff) with inoculant ¹	15	.35
	Creeping Red Fescue (Pennlawn, Wintergreen) or Tall Fescue (Kentucky 31)	2	.05
	Total	25	.60
126	Switchgrass (Blackwell, Shelter, Cave-in-rock)	10 ¹	.25
	Perennial Ryegrass (Norlea, Manhattan)	5	.10
	Crown Vetch (Chemung, Penngriff) with inoculant ¹	15	.35
	Total	45	1.05
13-15	Not used		
165	Tall Fescue (Kentucky 31)	20	.45
	Flatpea (Lathco) with inoculant ¹	30	.75
		20	.45
	Total	50	1.20
17 & 18	Not used		
195	Chewing Fescue	35	.80
	Hard Fescue	30	.70
	Colonial Bentgrass	5	.10
Bird's-foot Trefoil (Empire, Viking)	10	.20	
Perennial Ryegrass	20	.50	
	Total	100	2.3
215	Creeping Red Fescue (Pennlawn, Wintergreen)	20	1.35
225	Creeping Red Fescue (Pennlawn, Wintergreen)	40	.90
	Tall Fescue (Kentucky 31)	20	.45
		20	.45
	Total	60	1.35
235	Creeping Red Fescue (Pennlawn, Wintergreen)	15	.35
	Flatpea (Lathco) with inoculant ¹	30	.75
		20	.45
	Total	45	3.60
24-28	Not Used		
29	Turf Type Tall Fescue (Bonanza, Mustang, Rebel II, Spartan, Jaguar) or Perennial Rye ("Future 2000" mix, Fiesta II, Blazer II, and Dasher II)	175 to 250	6 to 8

¹ Use proper inoculant for legume seeds, use four times recommended rate when hydros seeding.
² Use Pure Live Seed (PLS) = $\frac{\% \text{ Germination} \times \% \text{ Purity}}{100}$
 EXAMPLE: Common Bermuda seed with 70% germination and 80% purity = $\frac{70 \times 80}{100}$ or $\frac{56}{100}$ or 56%
 $\frac{10 \text{ lbs PLS/acre}}{56\%} = 17.9 \text{ lbs/acre of bagged seed}$
³ DOT All purpose mix
⁴ Wild flower mix containing New England Aster, Baby's Breath, Black Eye Susan, Catcliff, Dwarf Columbine, Purple Conflower, Lance-leaved Coreopsis, Cornflower, Or-eye Baby, Dam's Rocket, Scarlet Fix, Foxglove, Gayfeather, Rocky Larkspur, Spanish Larkspur, Corn Poppy, Spurred Snapdragon, Wallflower and/or Yarrow may be added to any seed mix given. Most seed suppliers carry a wild flower mixture that is suitable for the Northeast and contains a variety of both annual and perennial flowers. Seeding rates for the specific mixtures should be followed.
⁵ Considered to be a cool season mix.
⁶ Considered to be a warm season mix.

Species ⁴	Seeding Rates (pounds/Acre)	Optimum Seed Depth ² (inches)	Optimum Seeding Dates ¹											Plant Characteristics			
			3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/15		2/15		
Annual ryegrass Lolium multiflorum	40	1.0	0.5														May be added in mixes. Will mow out of most stands.
Perennial ryegrass Lolium perenne	40	1.0	0.5														Use for winter cover. Tolerates cold and low moisture.
Winter rye Secale cereale	120	3.0	1.0														Quick germinating and heavy spring growth. Dies back in June with little regrowth.
Oats Avena sativa	86	2.0	1.0														In northern CT, will winter kill with the first killing frost and may throughout the state in severe winters.
Winter Wheat Triticum aestivum	120	3.0	1.0														Quick germination with moderate growth. Dies back in June with no regrowth.
Millet Echinochloa crusgalli	20	0.5	1.0														Warm season small grain. Dies with frost in September.
Sudangrass Sorghum sudanense	30	0.7	1.0														Tolerates warm temperatures and droughty conditions.
Sudangrass Sorghum sudanense	15	0.4	1.0														Hardy plant that will reseed itself and is good as a green manure crop.
Weeping Lovegrass Eragrostis curvula	5	0.2	0.25														Warm-season perennial. May bunch. Tolerates hot, dry slopes, acid infertile soils. Excellent nurse crop. Usually winter kills.
DOT All Purpose Mix ³	150	3.4	0.5														Suitable for all conditions.

- May be planted throughout summer if soil moisture is adequate or can be irrigated. Fall seeding may be extended 15 days in the coastal lowlands.
- Seed at twice the indicated depth for sandy soils.
- See Permanent Seeding Figure PS-3 for seeding mixture requirements.
- Listed species may be used in combinations to be obtain a broader time spectrum. If used in combinations, reduce each species planting rate by 20% of that listed.



SC-310 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

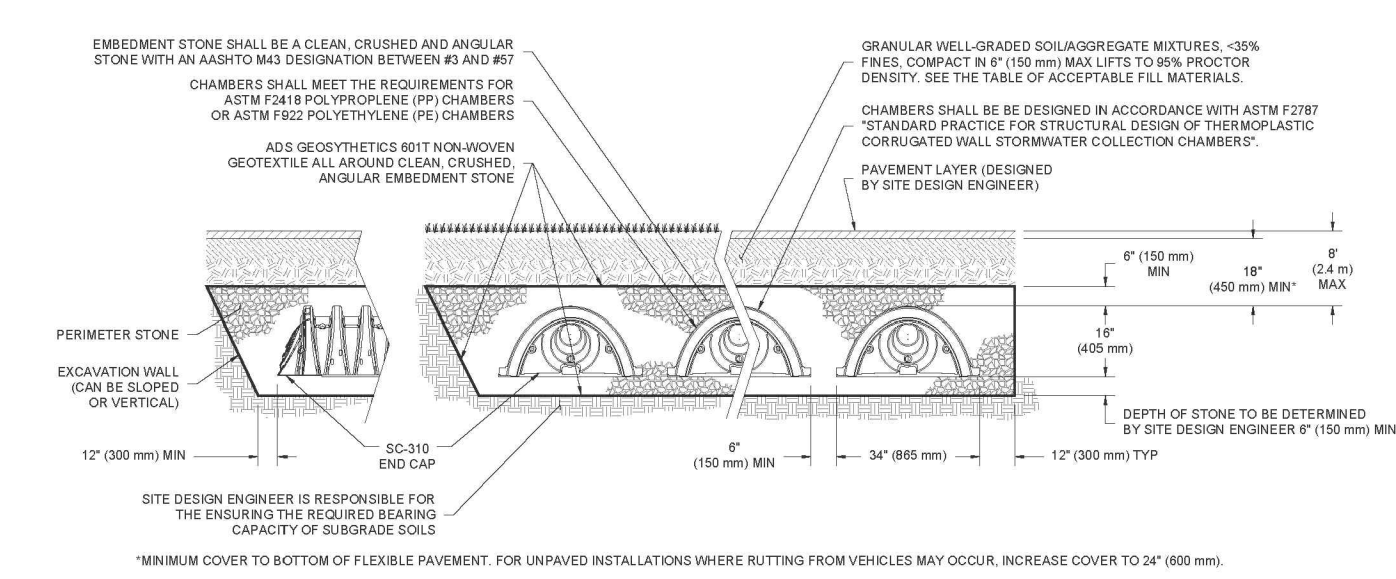
STORMTECH SC-310 CHAMBER
(not to scale)

Nominal Chamber Specifications
 Size (L x W x H)
 85.4" x 34.0" x 16.0"
 2,170 mm x 864 mm x 406 mm

Chamber Storage
 14.7 ft³ (0.42 m³)
Min. Installed Storage*
 31.0 ft³ (0.88 m³)
Weight
 37.0 lbs (16.8 kg)

Shipping
 41 chambers/pallet
 108 end caps/pallet
 18 pallets/truck

*Assumes 6" (150 mm) stone above and below chambers and 40% stone porosity.



ROOF LEADER INFILTRATION CHAMBER DETAIL
NOT TO SCALE

CONSTRUCTION TIME SCHEDULE

- Total construction time for the proposed site improvements on each lot is approximately 12 months. Start construction as soon as possible (Fall 2020).
- All erosion control measures shall be in place and inspected prior to start of Construction.
- STOCKPILE AREAS: Loam and fill stockpile areas shall be seeded per the temporary seeding schedule as soon as possible with minimal disturbance after that time, until the material is required for final installation. All areas of the site not finished graded shall be seeded per the temporary seeding schedule.

WETLANDS APPLICATION DATA

- This project involves the subdivision of the property into 8 residential building lots. The development of each lots consists of a house, driveway, municipal water service, subsurface sewage disposal system, site grading and the construction of water quality features (rain gardens).
- The rain gardens have been designed to collect and treat the first inch of stormwater runoff from impervious surfaces. Grass lined swales are proposed to direct stormwater runoff to the rain gardens and provide additional water quality treatment.
- The property contains 0.09 acres of inland wetlands. No disturbance is proposed within the inland wetlands or regulated area due to construction activities.



GEOTEX® 200ST is a woven polypropylene geotextile containing heavy woven flat tape yarns and will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. These characteristics make GEOTEX® 200ST ideal for the construction of embankments over soft soils, steepened slopes, and modular block and/or wrapped-face retaining walls. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

GEOTEX® 200ST conforms to the property values listed below¹. Propex performs internal Manufacturing Quality Control (MQC) tests that have been accredited by the Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GA-LAP). This product is NTPPE tested for AASHTO standards.

PROPERTY	TEST METHOD	MARV ²	
		ENGLISH	METRIC
MECHANICAL			
Grab Tensile Strength	ASTM D-4632	200 lbs	890 N
Grab Elongation	ASTM D-4632	15%	15%
CBR Puncture	ASTM D-6241	700 lbs	3114 N
Trapezoidal Tear	ASTM D-4533	75 lbs	334 N
ENDURANCE			
UV Resistance at 500 hrs	ASTM D-4355	70%	70%
HYDRAULIC			
Apparent Opening Size (AOS) ³	ASTM D-4751	40 US Std. Sieve	0.425 mm
Permittivity	ASTM D-4491	0.05 sec ⁻¹	0.05 sec ⁻¹
Water Flow Rate	ASTM D-4491	4 gpm/ft ²	163 l/min/m ²
ROLL SIZES⁴			
		12.5 ft x 432 ft	3.81 m x 131.7 m
		15.0 ft x 360 ft	4.57 m x 109.7 m
		17.5 ft x 309 ft	5.33 m x 94.2 m

- NOTES:**
- The property values listed above are effective 12/17/2018 and are subject to change without notice.
 - Values shown are in weaker principal direction. Minimum average roll values (MARV) are calculated as the typical minus two standard deviations. Statistically, it yields a 97.7% degree of confidence that any samples taken from quality assurance testing will exceed the value reported. Values represent testing at time of manufacture.
 - Maximum average roll value.
 - Contact your local Territory Business Manager (TBM) for custom widths and colors. Lead times may vary depending on customer requirements and volume requested.



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STORMWATER MANAGEMENT AREA GEOTEXTILE
NOT TO SCALE

1.0 POST CONSTRUCTION INSPECTION & MAINTENANCE

Post-construction, regularly scheduled inspections and maintenance will be necessary to ensure the permanent structural features such as the rain gardens remain optimally functional and continue to provide water quality.

The Land Owner shall be responsible for the inspection and maintenance of the rain gardens. Inspections should be performed at a minimum of twice per year (April 1st and Nov 1st). Inspections and maintenance should be performed as described below within this section.

1.1 Inspection

Overall Site Inspection

The overall site, embankments, vegetation and swales should be inspected after every major rain event of 0.5 inch or greater in a 24-hour period and twice per year (April 1st and Nov 1st). The inspections should include but are not limited to:

- Density and condition of vegetation and ground cover.
- Erosion, differential settlement or cracking of embankment.
- Bulging or sliding of toe of embankments.
- Sedimentation of swales.
- Sedimentation of lawn areas of paved areas.

1.2 Maintenance

Overall Site Maintenance

Maintaining vegetative and structural measures for soil protection is necessary to keep the rain gardens functioning properly. Maintenance should occur after every major rain event of 0.5 inch or greater in a 24-hour period and twice per year (April 1st and Nov 1st), and should include but is not limited to:

Seasonal Maintenance

1. Vegetated areas should be maintained to promote vigorous and dense growth. Lawn areas should be mowed at least three times a year but may require more frequent mowing depending on the growth rate.

2. Accumulation of litter and debris should be removed during each mowing.

3. Swale will include periodic mowing, occasional spot re-seeding and weed control. Weeds and woody plants should be eradicated or cut back since they reduce the efficiency of the swale.

Winter Maintenance

1. Snow removed from paved areas should not be piled in the rain gardens.

2. Use of deicing materials should be limited to sand and environmentally friendly chemical products. Use of salt mixtures should be kept to a minimum.

3. Sand used for deicing should be clean, coarse material free of fines, silt, and clay.

Rain Garden Maintenance

1. Optimum operation of the rain gardens is dependent on storage capacity, inflow and sediment load. Rain gardens should be monitored periodically for sediment accumulation. Sediments should be removed when capacity has been reduced by 10%, or when 6 inches has accumulated. When sediment removal is required, original grades should be restored. Debris and sediment within the structures shall be removed annually.

CONSTRUCTION SEQUENCE

- Contact the Town of North Haven at least 48 hours prior to commencement of construction activities.
- Clearing limits shall be marked in the field prior to start of work on each lot.
- Install construction entrance, silt socks, silt fence and other required erosion control measures as shown on the plan.
- Clear and grub the area for the driveway, house, water service and subsurface sewage disposal system. Stockpile topsoil.
- Install double row of silt fence around stockpile areas.
- Begin construction stakeout of house, driveway and subsurface sewage disposal system.
- Install any required storm drainage and proposed utilities.
- Install gravel base for driveway.
- Install topsoil, seed, fertilizer and mulch.
- Install bituminous concrete pavement on driveway.
- Erosion and sediment control measures shall be removed following stabilization of the site.

		<p>DETAILS</p> <p>RESUBDIVISION OF ANDERSON SUNNYSIDE FARM LAND OF GBRSTORZ, LLC</p> <p>318 KINGS HIGHWAY, TOWN OF NORTH HAVEN NEW HAVEN COUNTY, CONNECTICUT</p>	
<p>Design/Colors LRC Drawn LRC Checked JW/REM Approved JW/REM</p>	<p>CAD File DN20262402.dwg Project No. 20-2624 Date 08/27/2020 Scale AS NOTED</p>	<p>Sheet No. DN-2</p>	<p> • Land Planning • Civil Engineering • Environmental Services • Land Surveying • Landscape Architecture 160 West Street, Suite II Cromwell, CT 06416 Tel: 860.635.2877 85 Civic Center Plaza, Suite 103 Middletown, CT 06457 Tel: 845.243.2880 1 International Blvd, Suite 400 Middletown, NJ 07945 Tel: 908.603.5730 www.lrcconsult.com LRC Engineering & Surveying, DPC LRC Engineering & Surveying, LLC LRC Environmental Services, Inc. </p>

SOIL TEST PIT RESULTS
DATE: NOVEMBER 12, 2010
WITNESSED BY: QUINNIPIAC VALLEY HEALTH DISTRICT

SOIL TEST PIT RESULTS
DATE: MAY 11, 2004
WITNESSED BY: QUINNIPIAC VALLEY HEALTH DISTRICT

PERCOLATION TEST RESULTS
DATE: DECEMBER 3, 2010
WITNESSED BY: QUINNIPIAC VALLEY HEALTH DISTRICT

TEST PIT 2AA	0-4" TOPSOIL & REMAINS OF BRUSH 4-62" RED BROWN SANDY LOAM, DAMP 72" WATER 58" ROOTS 72" RL N/A REDOX N/A LEDGE	TEST PIT 5CC	0-4" TOPSOIL 4-39" ORANGE BROWN SANDY LOAM 39-70" PINK BROWN SANDY LOAM, FIP, FRIABLE, DAMP N/A WATER 21" ROOTS 52" RL 52" REDOX N/A LEDGE
TEST PIT 2CC	0-9" DISTURBED TOPSOIL 9-20" ORANGE BROWN FINE SANDY LOAM 20-69" RED BROWN SANDY LOAM, DAMP N/A WATER 48" ROOTS 69" RL N/A REDOX N/A LEDGE	TEST PIT 5AA	0-5" TOPSOIL 5-36" ORANGE BROWN FINE SANDY LOAM, DAMP 36-60" RED BROWN SANDY LOAM, DAMP N/A WATER N/A ROOTS 60" RL N/A REDOX N/A LEDGE
TEST PIT 2BB	0-9" DISTURBED TOPSOIL 9-20" ORANGE BROWN FINE SANDY LOAM 20-99" RED BROWN SANDY LOAM, DAMP N/A WATER 48" ROOTS 80" RL N/A REDOX N/A LEDGE	TEST PIT 7AA	0-9" HTM, TOPSOIL 9-28" ORANGE BROWN SANDY LOAM, DAMP 29-79" RED BROWN FINE SANDY LOAM, DAMP N/A WATER 38" ROOTS 70" RL N/A REDOX N/A LEDGE
TEST PIT 3AA	0-7" TOPSOIL/WOODCHIPS 7-50" ORANGE BROWN SANDY LOAM, DAMP 50"- MORE COARSE THAN 7-50" N/A WATER 38" ROOTS 35" RL 35" REDOX N/A LEDGE	TEST PIT 7BB	0-9" TOPSOIL 9-28" ORANGE BROWN SANDY LOAM, DAMP 29-71" RED BROWN FINE SANDY LOAM, DAMP N/A WATER 38" ROOTS 70" RL N/A REDOX N/A LEDGE
TEST PIT 2BB	0-9" TOPSOIL 9-34" ORANGE BROWN LOAM, DAMP 34-62" RED BROWN SANDY LOAM, DAMP 61" WATER 22" ROOTS 32" RL 32" REDOX N/A LEDGE	TEST PIT 7CC	0-9" TOPSOIL 9-33" ORANGE BROWN FINE SANDY LOAM, DAMP 33-51" RED BROWN SANDY LOAM, DAMP 51-69" OLIVE BROWN FINE SANDY, DAMP
TEST PIT 4BB	0-5" TOPSOIL 5-20" ORANGE BROWN FINE SANDY LOAM, DAMP 20-56" RED LOAM, DENSE, STICKY N/A WATER N/A ROOTS 20" RL N/A REDOX 56" LEDGE	TEST PIT 8AA	0-5" TOPSOIL 6-24" ORANGE BROWN SANDY LOAM, DAMP 24-64" PINK BROWN SANDY LOAM, DAMP
TEST PIT 4CC	0-5" TOPSOIL 5-20" ORANGE BROWN FINE SANDY LOAM, DAMP 20-56" RED LOAM, DENSE, STICKY 35" WATER N/A ROOTS 35" RL N/A REDOX 72" LEDGE	TEST PIT 9AA	0-6" TOPSOIL/WOODCHIPS 6-17" ORANGE BROWN SANDY LOAM, DAMP 17-71" PINK BROWN SANDY LOAM, FIP, FRIABLE, DAMP
TEST PIT 5BB	0-5" TOPSOIL 5-27" ORANGE BORN LOAM, DAMP, SOME COBBLES 27-64" RED SANDY LOAM, MANY 15" STONES, COBBLES, VERY DIFFERENT THAN PRIOR HOLES N/A WATER 53" ROOTS 64" RL N/A REDOX 64" LEDGE	TEST PIT 9BB	0-7" TOPSOIL/WOODCHIPS 7-27" ORANGE BROWN SAND LOAM, DAMP 27-60" PINK BROWN SANDY LOAM, DAMP 22" REDOX 63" RL
		TEST PIT 9CC	0-7" TOPSOIL/WOODCHIPS 7-27" ORANGE BROWN SAND LOAM, DAMP 27-60" PINK BROWN SANDY LOAM, DAMP 27" REDOX 60" RL

TEST PIT 10AA	0-14" TOPSOIL 14-31" ORANGE BROWN FINE SANDY LOAM, DAMP 31-66" PINK BROWN SANDY LOAM, FIP, DAMP 25" REDOX 74" RL 60" WATER 45" MOTTLING N/A LEDGE 36" ROOTS 45" RL	TEST PIT 10BB	0-14" TOPSOIL 14-31" ORANGE BROWN FINE SANDY LOAM, DAMP 31-66" PINK BROWN SANDY LOAM, DAMP 74" RL
TEST PIT 10CC	0-14" TOPSOIL 14-31" ORANGE BROWN FINE SANDY LOAM, DAMP 31-66" PINK BROWN SANDY LOAM, FIP, DAMP 28-31" REDOX	TEST PIT 11AA	0-9" TOPSOIL 9-28" ORANGE BROWN SANDY LOAM, DAMP 29-79" RED BROWN FINE SANDY LOAM, DAMP N/A WATER 38" ROOTS 70" RL N/A REDOX N/A LEDGE
TEST PIT 2Aa	0-11" TOPSOIL 11-39" ORANGE BROWN SILT LOAM, LOOSE 39-84" RED SANDY LOAM, VERY FIRM (GLACIAL TILL) 51" WATER 40" MOTTLING N/A LEDGE 24" ROOTS 39" RL	TEST PIT 11BB	0-10" TOPSOIL 10-45" ORANGE BROWN SANDY LOAM 45-80" RED BROWN SANDY LOAM, DAMP 38" WATER
TEST PIT 3Aa	0-10" TOPSOIL 10-19" ORANGE BROWN FINE SANDY LOAM, LOOSE 19-72" RED SANDY LOAM, VERY FIRM (GLACIAL TILL) N/A WATER 18/19" MOTTLING N/A LEDGE N/A ROOTS SHALLOW 18/19" RL	TEST PIT 12AA	0-10" TOPSOIL 10-54" ORANGE BROWN LOAM, DAMP 54-77" RED BROWN LOAM, DAMP 45" REDOX
TEST PIT 3Bb	0-10" TOPSOIL 10-28" ORANGE BROWN FINE SANDY LOAM, LOOSE 28-46" TAN SILT LOAM, DAMP 46-80" RED SANDY LOAM, FIRM (GLACIAL TILL) N/A WATER 46" MOTTLING N/A LEDGE 45" ROOTS RL	TEST PIT 12BB	0-9" TOPSOIL 9-42" ORANGE BROWN FINE SANDY LOAM, DAMP 42-81" RED SANDY LOAM, DAMP 24" REDOX
TEST PIT 4Aa	0-10" TOPSOIL 10-22" ORANGE BROWN FINE SANDY LOAM, LOOSE 22-36" LIGHT GRAY/LIGH RED MOTTLED VERY FINE/FINE SAND 36-74" RED SANDY LOAM, VERY FIRM (GLACIAL TILL) N/A WATER 22" MOTTLING N/A LEDGE 30" ROOTS 22" RL	TEST PIT 12CC	0-10" TOPSOIL 10-48" ORANGE BROWN FINE SANDY LOAM, DAMP 48-80" RED FINE SANDY LOAM, DAMP 21" REDOX
TEST PIT 4Bb	0-8" TOPSOIL 8-23" ORANGE BROWN SILT LOAM, LOOSE 23-38" TAN SILT LOAM, LOOSE 38-84" RED SANDY LOAM, VERY FIRM, (GLACIAL TILL) N/A WATER 40" MOTTLING N/A LEDGE 48" ROOTS 23" RL	TEST PIT 12CC	0-10" TOPSOIL 10-48" ORANGE BROWN FINE SANDY LOAM, DAMP 48-80" RED FINE SANDY LOAM, DAMP 21" REDOX

PERC TEST #4-1	PRESOAK: PRIOR DAY HOLE DEPTH: 19" WATER IN HOLE: 12" TIME READING RATE 9:45 5.625 10:00 10.25 3.2 10:10 12.125 5.3 10:20 13.25 8.9 10:30 15.125 9.8 10:42 16.625 9.3 10:51 DRY	PERC TEST #4-2	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 9:47 5.75 10:02 7.5 10:11 8.75 10:21 9.75 10:32 10.625 10:44 11.75 10.7 10:53 12.5 12.0 11:04 13.125 17.6 11:13 13.625 18.0 11:24 14.125 22 11:35 14.25 17.6
PERC TEST #5-1	PRESOAK: PRIOR DAY HOLE DEPTH: 16" WATER IN HOLE: 12" TIME READING RATE 9:50 12.06 10:05 9.375 10:15 8.312 10:26 7.312 11.0 10:36 6.438 11.4 10:46 5.688 13.3 10:56 5.00 14.5 11:07 4.312 16.0 11:19 3.688 19.2 11:44 2.625 24.8	PERC TEST #5-2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 13" TIME READING RATE 9:52 13.25 10:10 8.75 10:27 9.50 68.0 10:39 10.75 10:49 10.438 10:59 10.00 11:09 9.75 11:21 9.438 11:31 9.188 40 11:46 8.812 40 12:06 8.375 45.7
PERC TEST #6-1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 9:54 12.125 10:08 9.25 10:18 8.188 10:30 7.312 10:41 6.562 10:50 5.875 11:01 4.938 11:10 4.25 11:22 3.375 11:32 2.688	PERC TEST #6-2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 12" TIME READING RATE 9:52 8.50 10:10 8.75 24.0 10:27 9.50 68.0 10:39 9.375 32.0 10:43 9.75 26.7 11:02 10.00 52.0 11:17 10.25 60.0 11:31 10.50 56.0 12:32 11.625 488.0

PERC TEST #7-1	PRESOAK: PRIOR DAY HOLE DEPTH: 19" WATER IN HOLE: 12" TIME READING RATE 9:57 5.0 10:07 8.0 3.3 10:17 10.375 4.2 10:27 12.375 5.0 10:37 14.0 6.2 10:47 15.375 16.0 10:57 DRY	PERC TEST #7-2	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 10:02 12.438 10:23 6.502 3.6 10:36 4.50 6.3 10:46 3.125 7.3 10:56 2.188 10.7 11:10 1.312 10.0
PERC TEST #8-1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 1:48 11.688 3.2 2:02 7.25 8.4 2:13 5.938 8.6 2:27 4.312 8.6 2:40 2.938 9.5 2:52 2.25 17.4 3:05 1.562 18.9 3:14 DRY	PERC TEST #8-2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 12" TIME READING RATE 1:49 11.312 3.6 2:03 8.00 3.6 2:14 6.375 6.8 2:28 4.312 6.8 2:42 DRY 9.0
PERC TEST #9-1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 12:21 11.625 2.3 12:39 3.75 3.5 12:49 0.875 6.7 1:12 DRY	PERC TEST #9-2	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 12:21 11.625 2.3 12:39 3.75 3.5 12:49 0.875 6.7 1:12 DRY


PERC TEST #10-1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 1:55 4.50 2:05 5.975 2:15 6.75 2:30 7.75 2:43 8.75 2:58 9.625 3:07 10.25 17.6 3:18 11.0 3:28 11.75 3:40 12.375 32	PERC TEST #10-2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 12" TIME READING RATE 1:58 5.75 2:07 10.50 2.1 2:18 12.875 3.8 2:37 16.00 6.1 2:45 16.875
PERC TEST #11-1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 1:58 5.75 2:07 10.50 2.1 2:18 12.875 3.8 2:37 16.00 6.1 2:45 16.875	PERC TEST #11-2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 12" TIME READING RATE 1:58 5.75 2:07 10.50 2.1 2:18 12.875 3.8 2:37 16.00 6.1 2:45 16.875

PERCOLATION TEST RESULTS
DATE: MAY 12&13, 2004
WITNESSED BY: QUINNIPIAC VALLEY HEALTH DISTRICT

PERC TEST #3	PRESOAK: 11:00 AM HOLE DEPTH: 28" WATER IN HOLE: TIME READING RATE 1:32 13.5 2.9 2:08 16.5 5.7 2:26 18.5 9.0 2:46 20.375 10.7 2:53 21(DRY) 11.2	PERC TEST #4	PRESOAK: 11:00 AM HOLE DEPTH: 32" WATER IN HOLE: TIME READING RATE 1:30 9 6.7 1:50 12 12 2:05 13.25 12 2:24 14.5 15.2 2:46 16.125 21 2:55 16.5 26.7 3:05 16.875 26.7
PERC TEST #5	PRESOAK: 11:45 AM HOLE DEPTH: 32" WATER IN HOLE: TIME READING RATE 1:37 10 2.3 1:53 17 5.2 2:06 19.5 5.2 2:27 22.5 7 2:39 23.5 12 2:51 24.5 (DRY) 12	PERC TEST #6	PRESOAK: 24 HOURS HOLE DEPTH: 21" WATER IN HOLE: TIME READING RATE 9:09 4 2.4 9:30 12.875 2.4 9:41 14.75 5.9 9:51 16.5 (DRY) 5.7

PERC TEST #OT 1	PRESOAK: 10:00 AM ON 5/12/04 HOLE DEPTH: 24" REFILL WITH 12" OF WATER AT 1:22 PM ON 5/12/04 STATED: 5/12/04 TIME READING 1:22 5 1:32 7.5 1:42 10 1:52 12 2:02 13 2:07 13.5 2:12 14 2:17 14.5 2:22 15 2:27 15.5 2:32 16	PERC TEST #OT 2	PRESOAK: 3:15 PM ON 5/12/04 HOLE DEPTH: 22" REFILL WITH 12" OF WATER AT 9:45 AM ON 5/13/04 STATED: 5/13/04 TIME READING 9:42 6 9:57 7 10:07 7.75 10:17 8.25 10:27 8.75 10:37 9.25 10:47 9.625 11:00 10.125 11:10 10.625 11:15 11 11:20 11.375 11:25 11.75 11:30 12.125 11:35 12.5 11:40 12.875
PERC TEST #OT 3	PRESOAK: 3:20 PM ON 5/12/04 HOLE DEPTH: 24" REFILL WITH 12" OF WATER AT 9:42 AM ON 5/13/04 STATED: 5/13/04 TIME READING 9:42 6 9:57 7 10:07 7.75 10:17 8.25 10:27 8.75 10:37 9.25 10:47 9.625 11:00 10.125 11:10 10.625 11:15 11 11:20 11.375 11:25 11.75 11:30 12.125 11:35 12.5 11:40 12.875	PERC TEST #OT 4	PRESOAK: 10:00 AM ON 5/12/04 HOLE DEPTH: 24" REFILL WITH 12" OF WATER AT 1:22 PM ON 5/12/04 STATED: 5/12/04 TIME READING 1:22 5 1:32 7.5 1:42 10 1:52 12 2:02 13 2:07 13.5 2:12 14 2:17 14.5 2:22 15 2:27 15.5 2:32 16

PERC TEST #10P2	PRESOAK: PRIOR DAY HOLE DEPTH: 19" WATER IN HOLE: 12" TIME READING RATE 9:59 12.0 10:22 5.625 3.6 10:34 3.875 6.9 10:44 2.625 8.0 10:55 1.812 13.5 11:07 DRY	PERC TEST #10P1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 12:18 12.062 12:31 3.00 12:44 7.50 2.9 12:55 9.625 5.2 1:07 10.75 10.7 1:20 12.0 10.60 1:29 12.875 10.30 1:41 13.875 12.00
PERC TEST #11P2	PRESOAK: PRIOR DAY HOLE DEPTH: 20" WATER IN HOLE: 12" TIME READING RATE 1:55 4.50 2:05 5.975 2:15 6.75 2:30 7.75 2:43 8.75 2:58 9.625 3:07 10.25 17.6 3:18 11.0 3:28 11.75 3:40 12.375 32	PERC TEST #11P1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 13" TIME READING RATE 12:18 12.062 12:31 3.00 12:44 7.50 2.9 12:55 9.625 5.2 1:07 10.75 10.7 1:20 12.0 10.60 1:29 12.875 10.30 1:41 13.875 12.00
PERC TEST #12P2	PRESOAK: PRIOR DAY HOLE DEPTH: 16" WATER IN HOLE: 12" TIME READING RATE 1:58 5.75 2:07 10.50 2.1 2:18 12.875 3.8 2:37 16.00 6.1 2:45 16.875	PERC TEST #12P1	PRESOAK: PRIOR DAY HOLE DEPTH: 18" WATER IN HOLE: 12" TIME READING RATE 12:21 11.625 2.3 12:39 3.75 3.5 12:49 0.875 6.7 1:12 DRY



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SOIL TEST DATA

RESUBDIVISION OF ANDERSON SUNNYSIDE FARM LAND OF GBRSTORZ, LLC

**318 KINGS HIGHWAY, TOWN OF NORTH HAVEN
NEW HAVEN COUNTY, CONNECTICUT**

Design/Calcs	LRC	CAD File	DN20262403.dwg
Drawn	LRC	Project No.	20-2624
Checked	JW/REM	Date	08/27/2020
Approved	JW/REM	Scale	AS NOTED

DN-3

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