

FITNESS CENTER AND CANOE CLUB

LOCATION: 2 GARNER LANE, BAY SHORE, NY

THE TOWN OF ISLIP HAS REQUESTED THAT A NEW SUSTAINABLE AND INNOVATIVE GYM/CANOE CLUB BE DESIGNED FOR ITS RESIDENTS AND THE SURROUNDING AREA. THE SITE MUST ALSO INCLUDE A CAFE ATTACHED TO A GREEN ROOF AND INCORPORATE A MINIMUM OF THREE SUSTAINABLE FEATURES. LOCATED ON A LAKE IT IS INTEGRAL THAT THE DESIGN EITHER INCORPORATES IT OR IS SITE SPECIFIC. THE PROJECT IS TO FOLLOW THE TOWN OF ISLIP ZONING CODES AND REGULATIONS ALONG WITH THE TYPICAL ADA REQUIREMENTS.



FARMINGDALE STATE
COLLEGE DEPARTMENT OF
ARCHITECTURE AND
CONSTRUCTION
MANAGEMENT

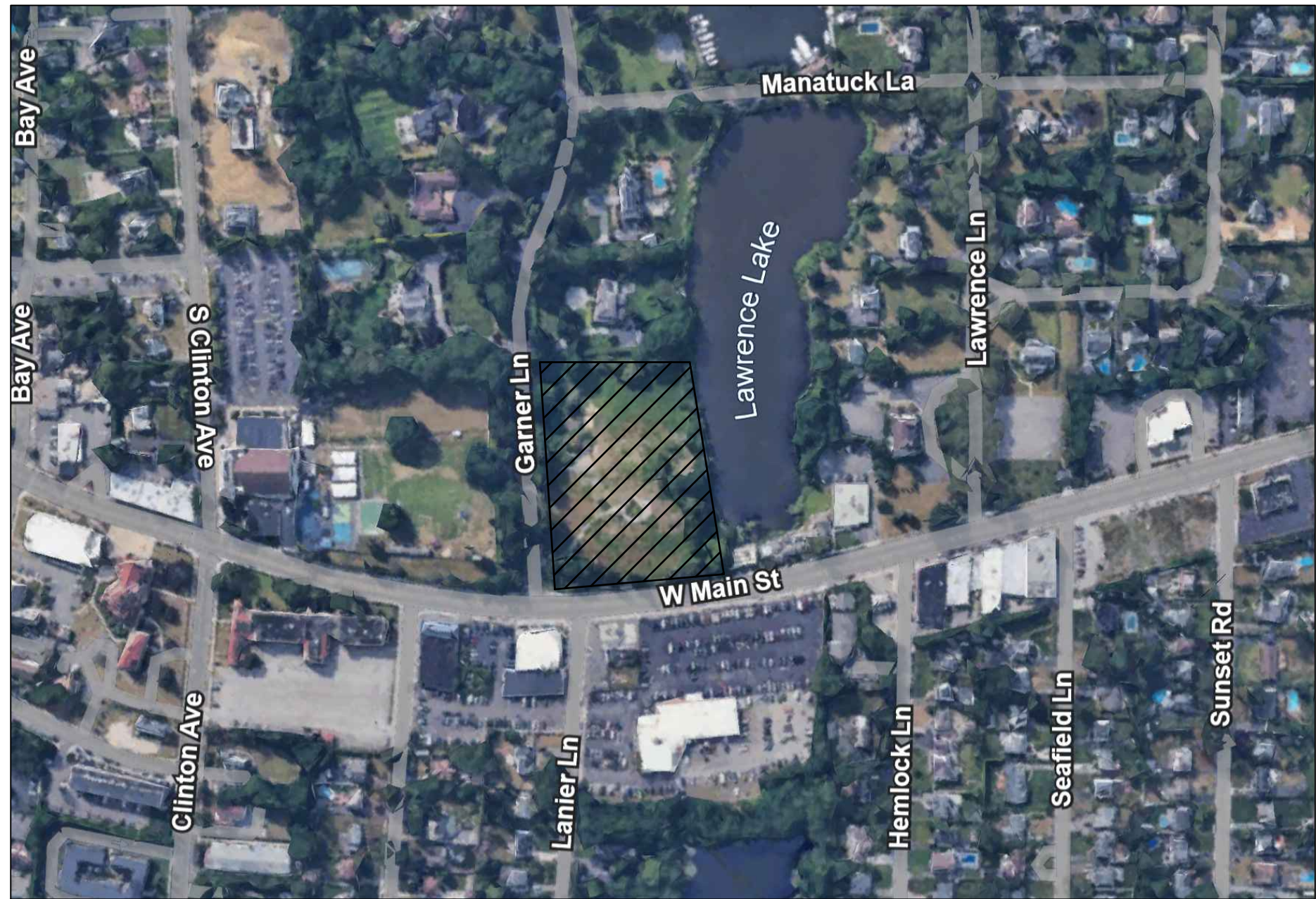
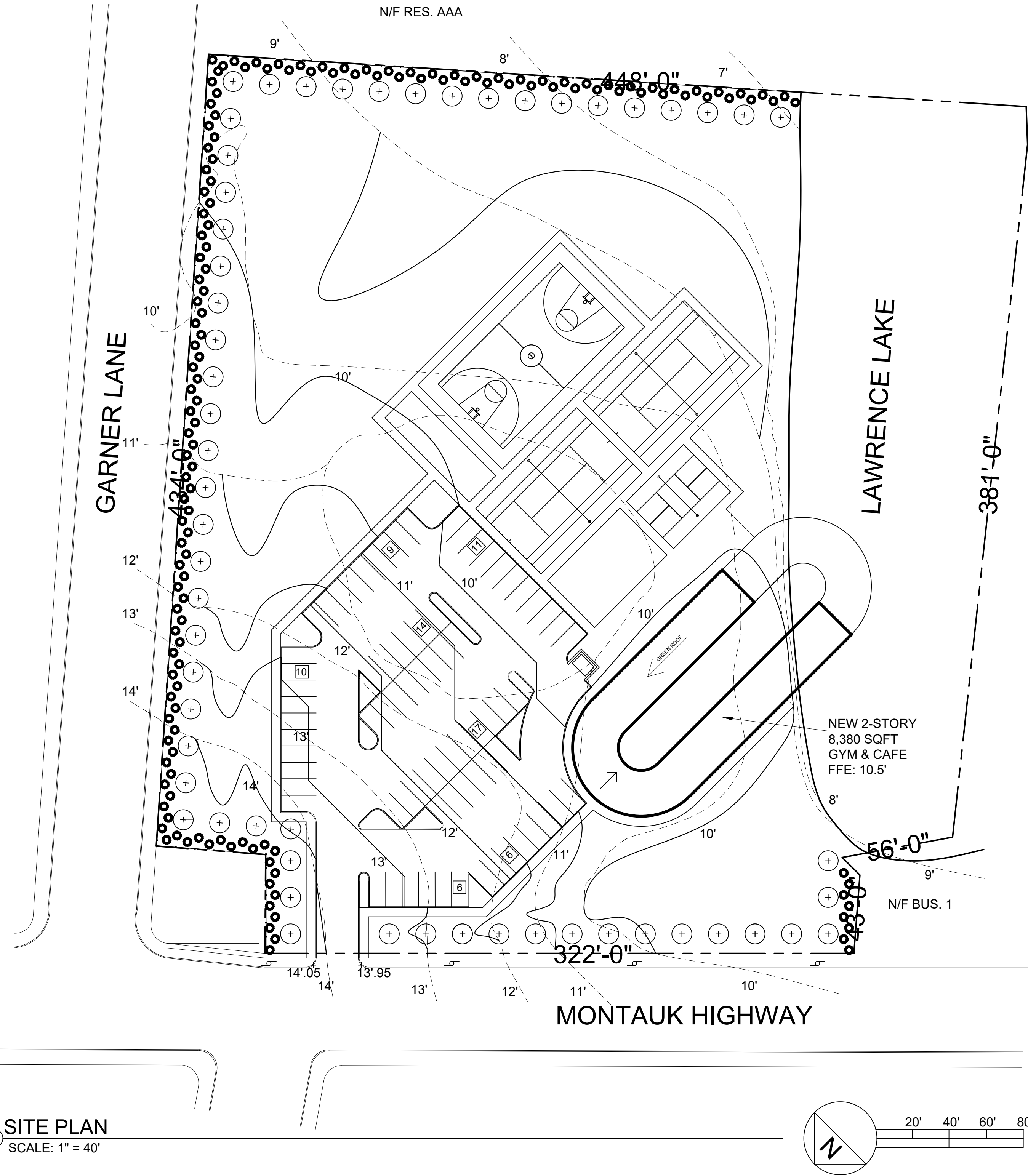
PODDO
DESIGNERS

2 GARNER LANE
SITE PLAN

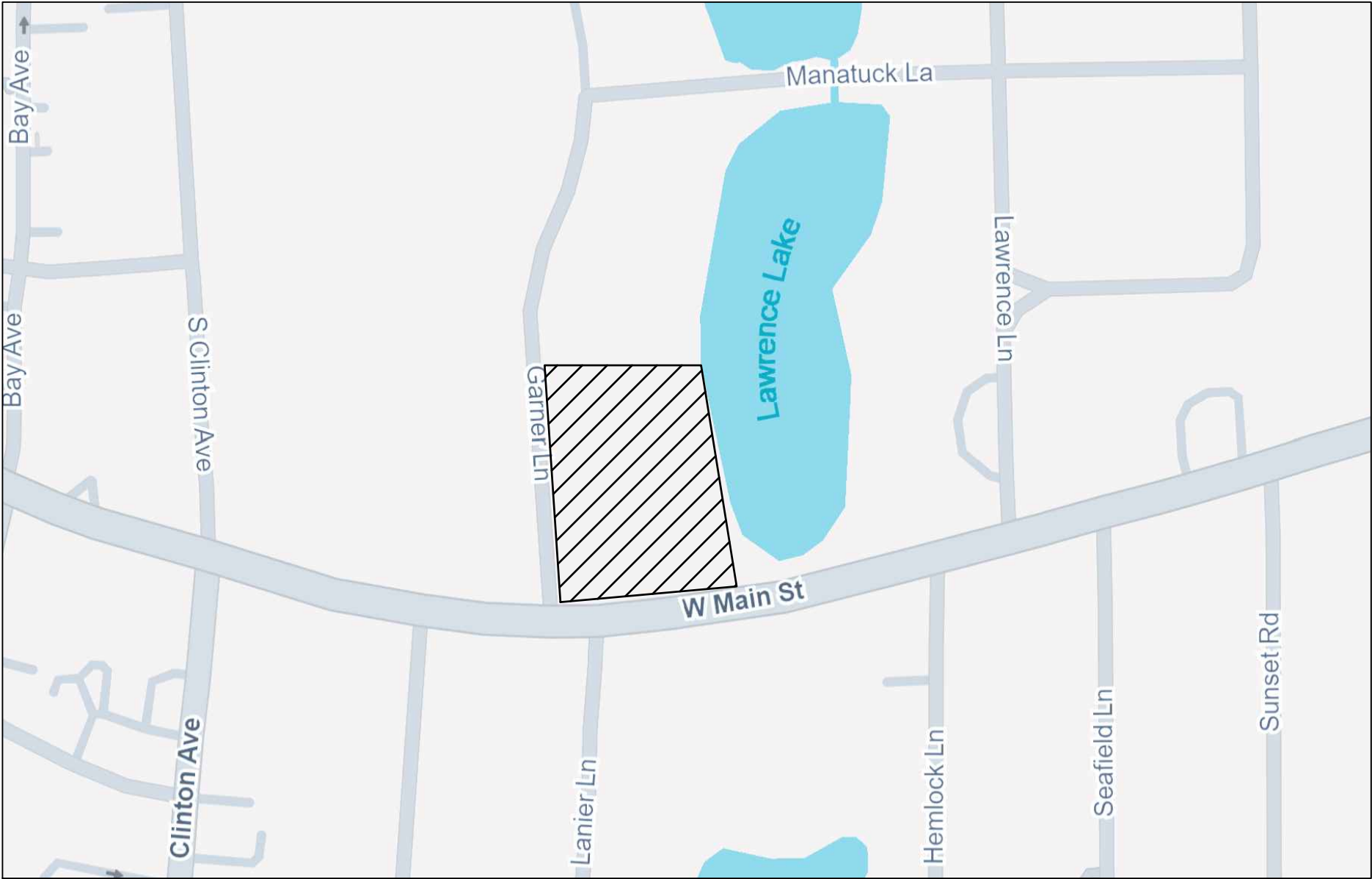
NAME: PHILIP ODDO
PROFESSOR: LOPICCOLO
CLASS: ARC 486
DATE: 12/16/25

COVER SHEET

C-100



2 SITE AERIAL
SCALE: N.T.S.



3 LOCATION MAP
SCALE: N.T.S.

Town of Islip
Geographic Table Design Requirements
For Commercial and Residential Permits
2020 NYS Uniform Code

The Town of Islip is within a hurricane prone region, Climate Zone 4a.

TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WIND DESIGN				SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM		WINTER DESIGN TEMP	ICE BARRIER REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP	
	Speed (mph)	Topographic Effects	Special Wind Region	Wind-Born Debris Zone		Weathering	Frost Line Depth						
20	130 Vult	no	no	1 Mile from Coast and Fire Island	B	Severe	BOF 3 FT BFG	Mod To Heavy	See Below	Yes	Call the Plans Examiners Office	599	51° F

MANUAL J CRITERIA REQUIRED IN SUBMITTED CALCULATIONS							
ELEVATION	LAT	WINTER HEATING	SUMMER COOLING	ALTITUDE CORRECTION FACTOR	INDOOR DESIGN TEMP	DESIGN TEMPERATURE COOLING	HEATING TEMPERATURE DIFFERENCE
108 FT	41° N	15° F	86° F	1.00	70° F	75° F	55° F
Cooling Temperature Difference	Wind Velocity Heating		Wind Velocity Cooling	Coincident Wet Bulb	Daily Range	Winter Humidity	Summer Humidity
11° F	15 MPH		7.5 MPH	72° F	Medium (M)	40%	32 GR @50% RH

IBC CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA													
GROUND SNOW LOAD	WIND DESIGN			SEISMIC DESIGN CATEGORY	SUBJECT TO DAMAGE FROM			WINTER DESIGN TEMP	ICE BARRIER REQUIRED	FLOOD HAZARDS	AIR FREEZING INDEX	MEAN ANNUAL TEMP	
	Speed (mph)	Topographic Effects	Special Wind Region		Weathering	Frost Line Depth	Termite						
20	130 Vult	No	No	1 Mile from Coast and Fire Island	B	Severe	BOF 3 FT BFG	Mod To Heavy	See Below	Yes	Call the Plans Examiners Office	599	51° F

Winter Design Temp:
• Interior spaces intended for human occupancy shall be provided with an indoor temperature of not less than 68° F at a point 3 feet above the floor on the design heating day
• System design shall be based on max 72° F heating, minimum 75° F cooling
• Degree days (NY LaGuardia) 4811, Winter Design Temp 15° F, Dry Bulb 89° F, Wet Bulb 75° F (2020 IPC Appendix D)
• As per NYSBC 2020 Chapter 16 section 1609 and ASCE 7 2016, wind exposure category and surface roughness is B
• Use C for both South Shore and Fire Island

GENERAL NOTES:

- GENERAL NOTES APPLY TO ALL DRAWINGS
- DO NOT SCALE DRAWINGS. ANY DIMENSIONAL INFORMATION REQUIRED WHICH IS NOT INDICATED ON DRAWING DIMENSION STRINGS SHALL BE OBTAINED FROM THE ARCHITECT
- DIMENSIONS SHOWN ARE BASED OFF OF TOWN OF ISLIP TAX MAPS AND ARE BELIEVED EXISTING CONDITIONS
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS (I.E. EXISTING MATERIALS, FRAMING MEMBER SIZES AND LOCATIONS, METHODS OF CONSTRUCTION). IF DISCREPANCIES ARE FOUND, NOTIFY ARCHITECT BEFORE PROCEEDING WITH WORK.
- CONTRACTOR SHALL PAY ALL PERMIT FEES.
- CONTRACTOR SHALL MAINTAIN THE IMMEDIATE CONSTRUCTION SITE IN A SECURE, CLEAN AND SAFE MANNER.
- PROTECTION: CONTRACTORS SHALL BE SOLELY RESPONSIBLE FOR TAKING ALL STEPS NECESSARY TO PROTECT THE PUBLIC FROM INJURY AND ADJACENT PROPERTY DAMAGES DURING CONSTRUCTION AS REQUIRED BY LOCAL CODES.
- REPAIR ALL EXISTING CONSTRUCTION AFFECTED BY NEW WORK TO ITS ORIGINAL CONDITION
- ALL WORK IS TO COMPLY WITH THE TOWN OF ISLIP 2025 CODES
- 811 MUST BE CALLED BEFORE ANY DIGGING IS TO BEGIN AS SO NO UNKNOWN BELOW GRADE HAZARDS ARE DISCOVERED
- THESE PLANS SHALL NOT BE CHANGED UNLESS ARCHITECT AND THE TOWN OF ISLIP IS NOTIFIED
- SITE SHALL BE DEEMED ENTIRELY ADA ACCESSIBLE
- ALL CONCRETE WORK IS TO MEET AND EXCEED STATE REQUIREMENTS IN STRENGTH
- CONTRACTORS ARE SOLELY RESPONSIBLE FOR OBTAINING ALL PERMITS
- ALL DAMAGE TO SURROUNDING PUBLIC AND PRIVATE INFRASTRUCTURE SHALL BE REPAID SOLELY BY THE CONTRACTOR
- PARKING PLAN IS TO TOWN OF ISLIP ZONING CODE AND NO ALTERATIONS SHALL BE MADE WITHOUT NOTIFICATION OF BOTH ARCHITECT AND THE TOWN.
- PROPER ADA SIGNAGE AND MARKINGS SHALL INDICATE ADA PARKINGS SPACES, RAMPS, SIDEWALKS, ENTRANCES, ETC...
- ON SITE AND NEAR WATER ESPECIALLY, EROSION AND SETLEMNT CONTROL MEASURES SHALL BE APPLIED
- STORM WATER INFRUSTRCURE SHALL APPLY TO ENTIRE SITE
- CONSTRUCTION DEBRIS SHALL BE REMOVED FROM SITE AS OFTEN AS POSSIBLE
- ACCESS TO THE PUBLIC SHALL BE PROHIBITED WITHOUT NOTIFYING THE CORRECT AUTHORITIES
- SITE SECURITY MUST BE MAINTAINED AND ANY DAMAGES, VANDALIZATION, STOLEN OBJECTS, ETC... ARE TO BE COVERED ENTIRELY BY CONTRACTOR
- UTILITY COORDINATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR
- ALL FEDERAL, STATE, LOCAL, AND ASSOCIATED CODES SHALL BE FOLLOWED ACCORDINGLY AND ANY UNCERTAINTY IN THE DETERMINATION OF THESE CODES SHALL BE DIRECTED TO THE ASSOCIATED BRANCH, AND ARCHITECT
- THE ARCHITECT SHALL NOT BE DEEMED LIABLE FOR ANY ISSUES THAT ARISE FROM DRAWINGS NOT FOLLOWED, OR IMPROPER JUDGMENT FROM SELECTED CONTRACTORS

OWNER

TOWN OF ISLIP
(631) 224-5300
TOWNCLERK@ISLIP.GOV

CONTRACTOR

UNKNOWN
UNKNOWN
UNKNOWN

ARCHITECT

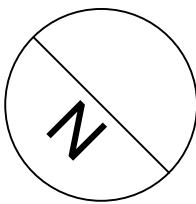
PHILIP ODDO
(631)-572-2036
ODDOP@FARMINGDALE.EDU

DRAWING INDEX

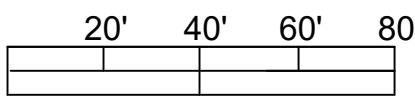
C-100	COVER SHEET
C-101	GENERAL NOTES
C-102	DEMOLITION PLAN
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C-106	LANDSCAPING PLAN
C-107	DETAILS

LEGEND

----- PROPERTY LINE



COMPASS



SCALE



FARMINGDALE STATE
COLLEGE DEPARTMENT OF
ARCHITECTURE AND
CONSTRUCTION
MANAGEMENT

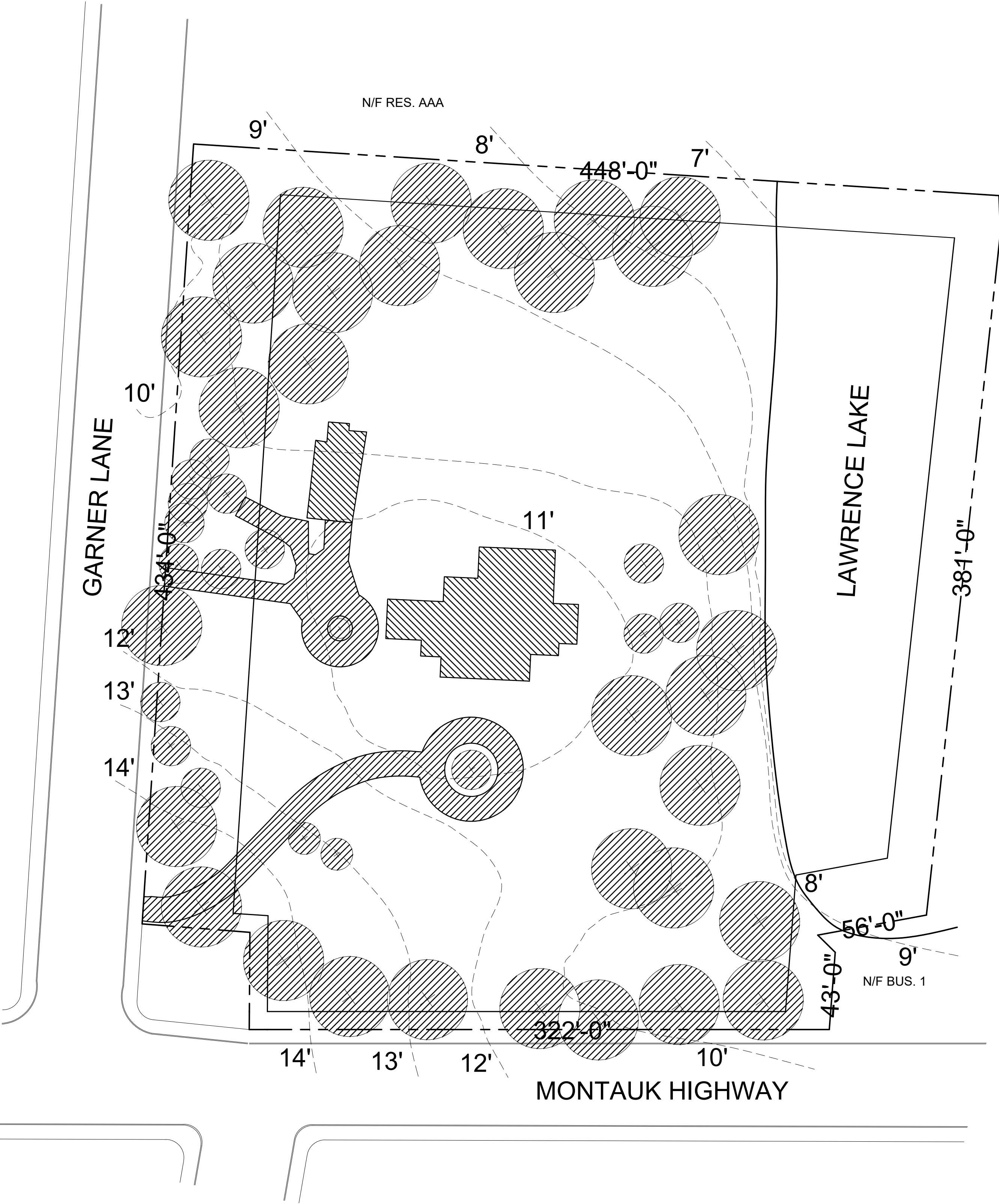
PODDO
DESIGNERS

2 GARNER LANE
SITE PLAN

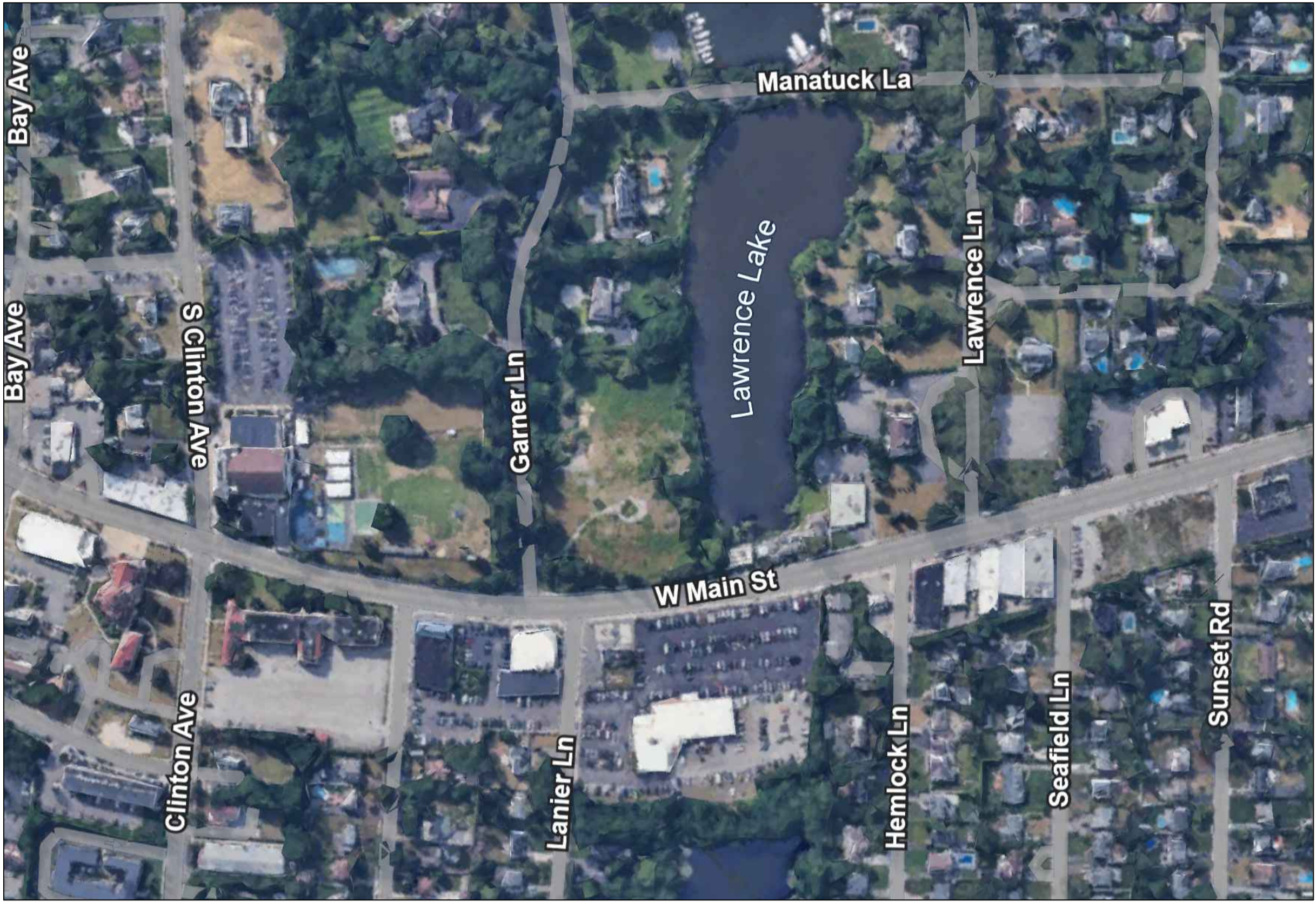
NAME: PHILIP ODDO
PROFESSOR: LOPICCOLO
CLASS: ARC 486
DATE: 12/16/25

SHEET TITLE

C-101



① DEMOLITION PLAN
SCALE: 1" = 40'

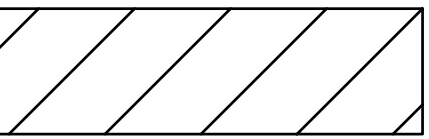


② SITE AERIAL
SCALE: N.T.S.

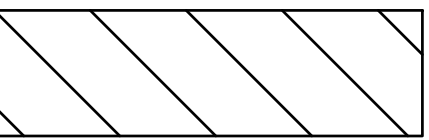
NOTE: REMOVE ALL STRUCTURES, INC. FOUNDATIONS, PAVEMENTS, AND TREES

NOTE: CLEAR AND GRUB SITE

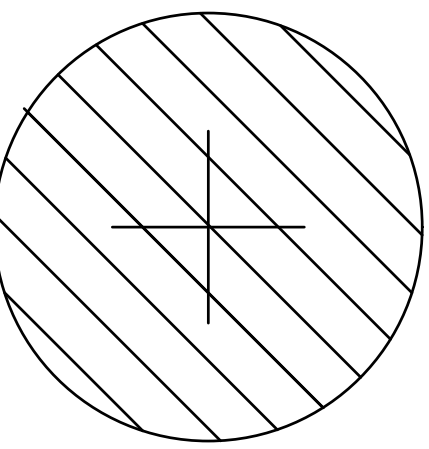
DEMOLITION LEGEND



PAVEMENT/DRIVE
TO BE REMOVED



FOUNDATION TO
BE REMOVED



TREE TO BE
REMOVED



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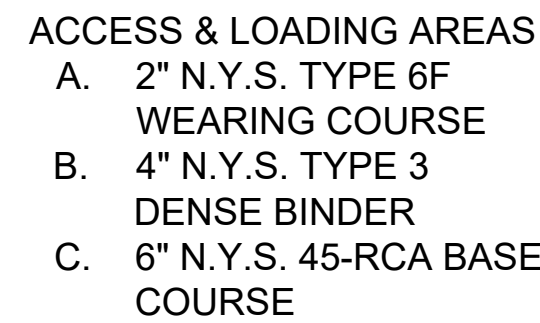
PODDO
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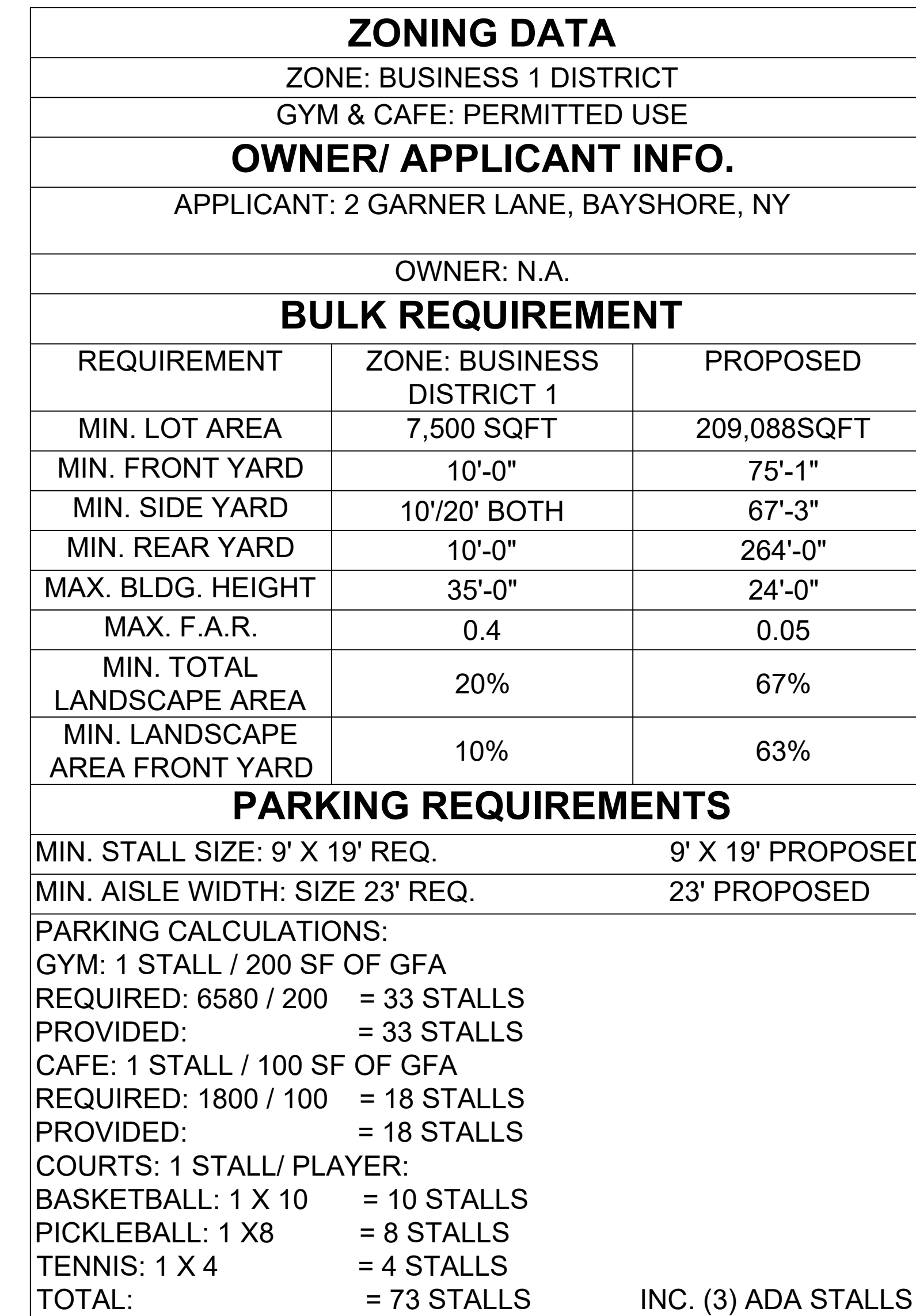
NAME: PHILIP ODDO
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DATE: 12/16/25

DEMOLITION PLAN

C-102



3 PERMEABLE PAVERS
SCALE: N.T.S.



SLIPFORM ASPHALT CURB FOR SPECIAL APPLICATIONS IF APPROVED BY TOWN ENGINEER

5'

(A) (B) (C)

STANDARD PARKING

- A. 1/2" N.Y.S. TYPE 6F WEARING COURSE
- B. 2" N.Y.S. TYPE 3 DENSE BINDER
- C. 6" N.Y.S. 45-RCA BASE COURSE

ACCESS & LOADING AREAS

- A. 2" N.Y.S. TYPE 6F WEARING COURSE
- B. 4" N.Y.S. TYPE 3 DENSE BINDER
- C. 6" N.Y.S. 45-RCA BASE COURSE

1.	ALL CONCRETE TO BE 4000 P.S.I	9.	CYLINDER TESTING AS REQUIRED PER TOWN ENGINEER
2.	FOR LOCATION OF CURB FROM P.L SEE STD. RD. SEC.	10.	SEWALINK JOINTS IN CURBS SHALL ALIGN WITH SIDEWALK EXPANSION JOINTS
3.	STEEL FORMS OR EQUAL SHALL BE USED.	11.	MIN THICKNESS STATED ARE MINIMUM THICKNESS
4.	EXPANSION JOINTS 1/2" THICK 20' C. SHALL BE USED.	12.	FIELD COMPACTION OF ASPHALT SHALL BE 95% OF DESIGN DENSITY A LABORATORY SPECIMEN MADE IN THE PROPORTIONS OF THE JOB MIX FORMULA FOR EACH CLASS MIX COMPACTION BY 75 BLOWS ON EACH FACE OF A 1/2" THICK SPECIMEN BY A STANDARD MARSHALL HAMMER SHALL BE AS THE STANDARD FOR DENSITY COMPARISON.
5.	EXPANSION JOINT IN SIDEWALK SHALL ALIGN WITH EXPANSION JOINT IN CURB		
6.	ALL CONCRETE SHALL BE TAMPED IN PLACE. NO HONEYCOMB WILL BE ALLOWED. FINISH SHALL BE BROOKING AND EXPOSED TO A WOOD FLOAT.		
7.	ALL EDGES SHALL BE TIGHT ROUNDED.		
8.	CERTIFICATION REQUIRED FROM MANUFACTURER OF RECYCLED CONCRETE.		
9.	TRUCK TRAVELED AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INDUSTRIAL ROAD SPECIFICATION.		

The drawing consists of two views: an elevation view (top) and a plan view (bottom).

Elevation View: Shows a cross-section of the driveway apron. The apron is 6 inches thick reinforced concrete. It features a 6-inch expansion joint and a contraction joint. The sidewalk is 6 inches thick and made of Item 105 material. The apron has a pitch of 1/4 inch per foot. The width of the driveway is indicated. The apron is supported by a 6-inch reinforced concrete apron with a 6x6 inch WWF (Welded Wire Fabric) reinforcement.

Plan View: Shows the top-down view of the driveway apron. It indicates the expansion joints and the contraction joint. The apron has a pitch of 1/4 inch per foot. The width of the apron is 6 feet 6 inches. The apron is supported by a 6-inch reinforced concrete apron with a 6x6 inch WWF reinforcement.

Section A-A: A cross-section of the apron showing the 6-inch reinforced concrete apron with a 6x6 inch WWF reinforcement. The apron has a pitch of 1/4 inch per foot. The width of the apron is 6 feet 6 inches. The apron is supported by a 6-inch reinforced concrete apron with a 6x6 inch WWF reinforcement.

PODDO
DESIGNERS

2 GARNER LANE

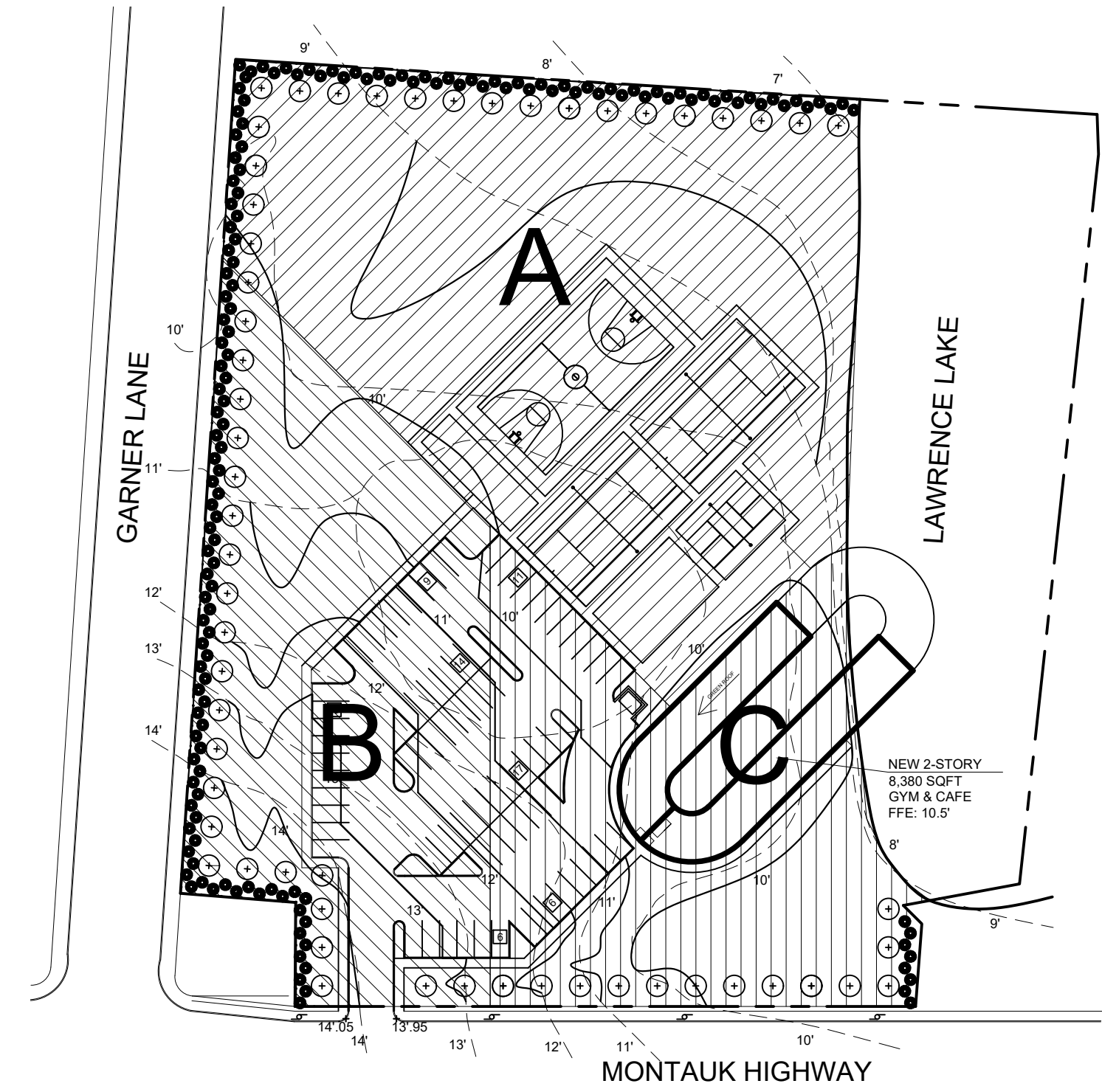
SITE PLAN

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PROPOSED SITE PLAN

C-103

AREA	SURFACE MATERIAL	C	i	TRIBUTARY AREA (SF)	Q STORAGE REQ'D (CF)	TOTAL STORAGE RECQ'D (CF)	TOTAL DEPTH OF 12' DIA. LP REQ'D (VF)	QTY OF 7'H 12' DIA. LP PROPOSED	QTY OF 7'H 12' DIA LPS PROPOSED-ROUNDED-UP
A	PAVEMENT		1	0.17	20923	3556.91			
	LANDSCAE		0.3	0.17	55305	2820.56			
	ROOF		1	0.17	0	0.00	6377.47	63.25	9.04
B	PAVEMENT		1	0.17	17626	2996.42			
	LANDSCAPE		0.3	0.17	29218	1490.12			
	ROOF		1	0.17	0	0.00	4486.54	44.50	6.36
C	PAVEMENT		1	0.17	13362	2271.54			
	LANDSCAPE		0.3	0.17	23162	1181.26			
	ROOF		1	0.17	3320	564.40	4017.20	39.84	5.69
TOTAL AREA=				162916					



② TRIBUTARY AREA MAP
SCALE: N.T.S.

SEPTIC REQUIREMENTS

GPD CALCULATIONS:
ALLOWABLE: 3.74 ACRES (600GPD) = 2,244 GPD
CAFE ALLOWABLE: 1,800SQFT (0.15GPD) = 270 GPD
GYM ALLOWABLE: 6,580SQFT (0.3GPD) = 1,974GPD
GYM SEPTIC TANK CALC.: 1,974 / (6'x500GPF) = 0.658 ST
GYM SEPTIC TANK ACTUAL: 1 10' DIA. SEPTIC TANK
CAFE SEPTIC TANK CALC.: 900GPD / (6'x500GPF) = 0.3 ST
CAFE SEPTIC TANK ACTUAL: 1 10' DIA. SEPTIC TANK
GYM SEPTIC LEACHING POOL CALCULATIONS:
GYM REQUIREMENTS: 1,974GPD/1.5 = 1,316
1,316/31.42= 41.88VF
EFFECTIVE DEPTH: 6'
41.88VF/ 6' = 7 SEPTIC LEACHING POOLS
GYM ACTUAL: 7 (1.5)= 11 SEPTIC LEACHING POOLS
CAFE SEPTIC LEACHING POOL CALCULATIONS:
CAFE REQUIREMENTS: 270GPD/1.5 = 180
180/31.42VF = 5.73VF
EFFECTIVE DEPTH: 6'
5.73VF/6' = 1 SEPTIC LEACHING POOLS
CAFE ACTUAL: 1 (1.5) = 2 SEPTIC LEACHING POOLS

GDS LEGEND

UNDERGROUND PIPE

GRATED LEACHING POOL

SEPTIC LEACHING POOL

SEPTIC LEACHING POOL EXPANSION

SEPTIC TANK

DRAINAGE POOL



① GRADING DRAINAGE & SEPTIC
SCALE: 1" = 40'



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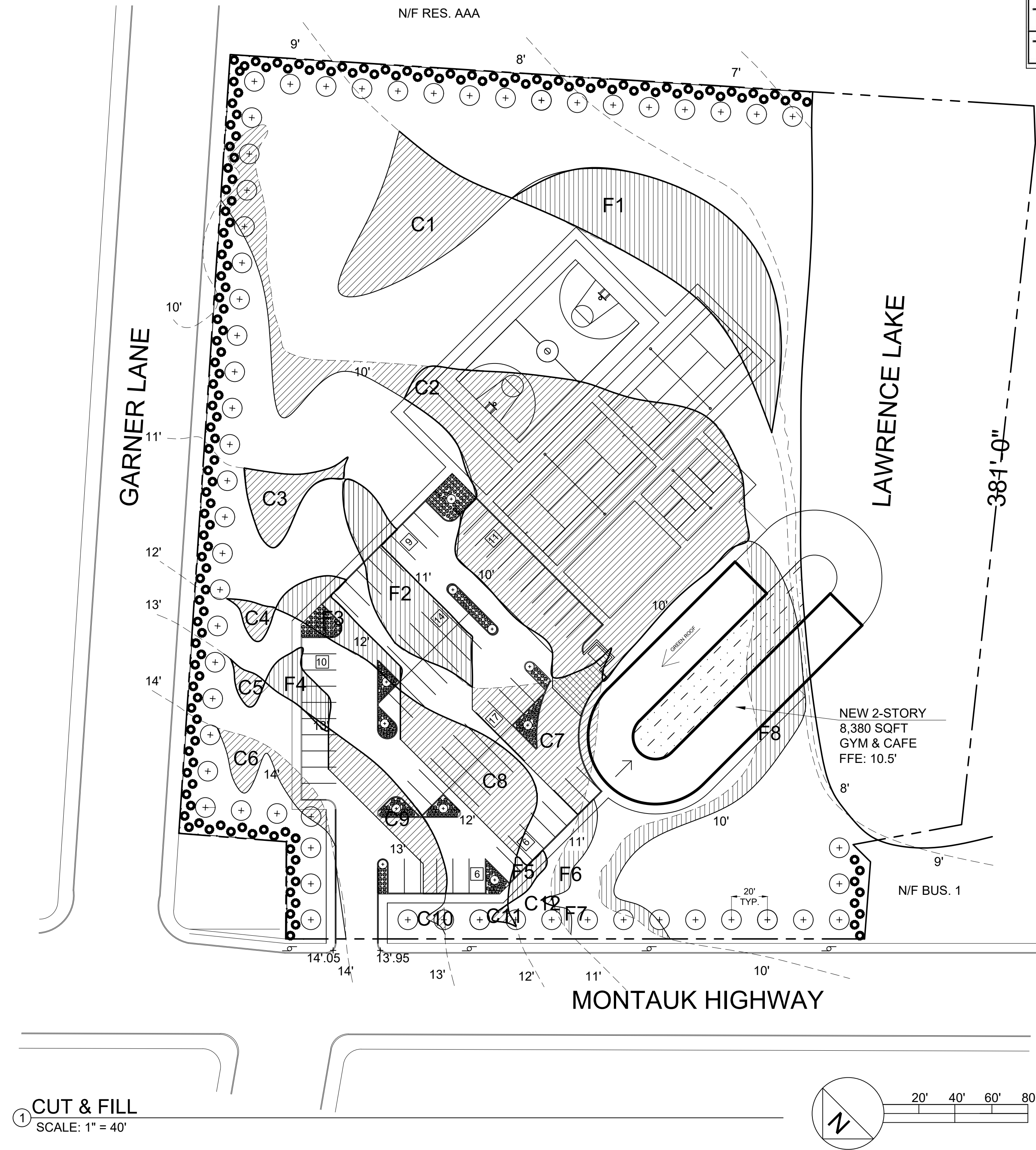
PODDO
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2 GARNER LANE
SITE PLAN

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GRADING DRAINAGE &
SEPTIC

C-104



CUT		FILL	
CUT#	CUT AREA FT CUBED	FILL#	FILL AREA FT CUBED
C1	4060	F1	6796
C2	23410	F2	2983
C3	1167	F3	1403
C4	302	F4	702
C5	242	F5	288
C6	1036	F6	539
C7	3349	F7	69
C8	3002	F8	3904
C9	1800	TOTAL FILL CF	16684
C10	80	TOTAL FILL CY (CF/27)	617.93
C11	83		
C12	23		
TOTAL CUT CF	38554	EXCESS CUT (CUT-FILL)	810
TOTAL CUT CY (CF/27)	1427.93		



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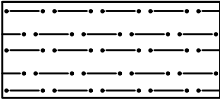
2 GARNER LANE
SITE PLAN

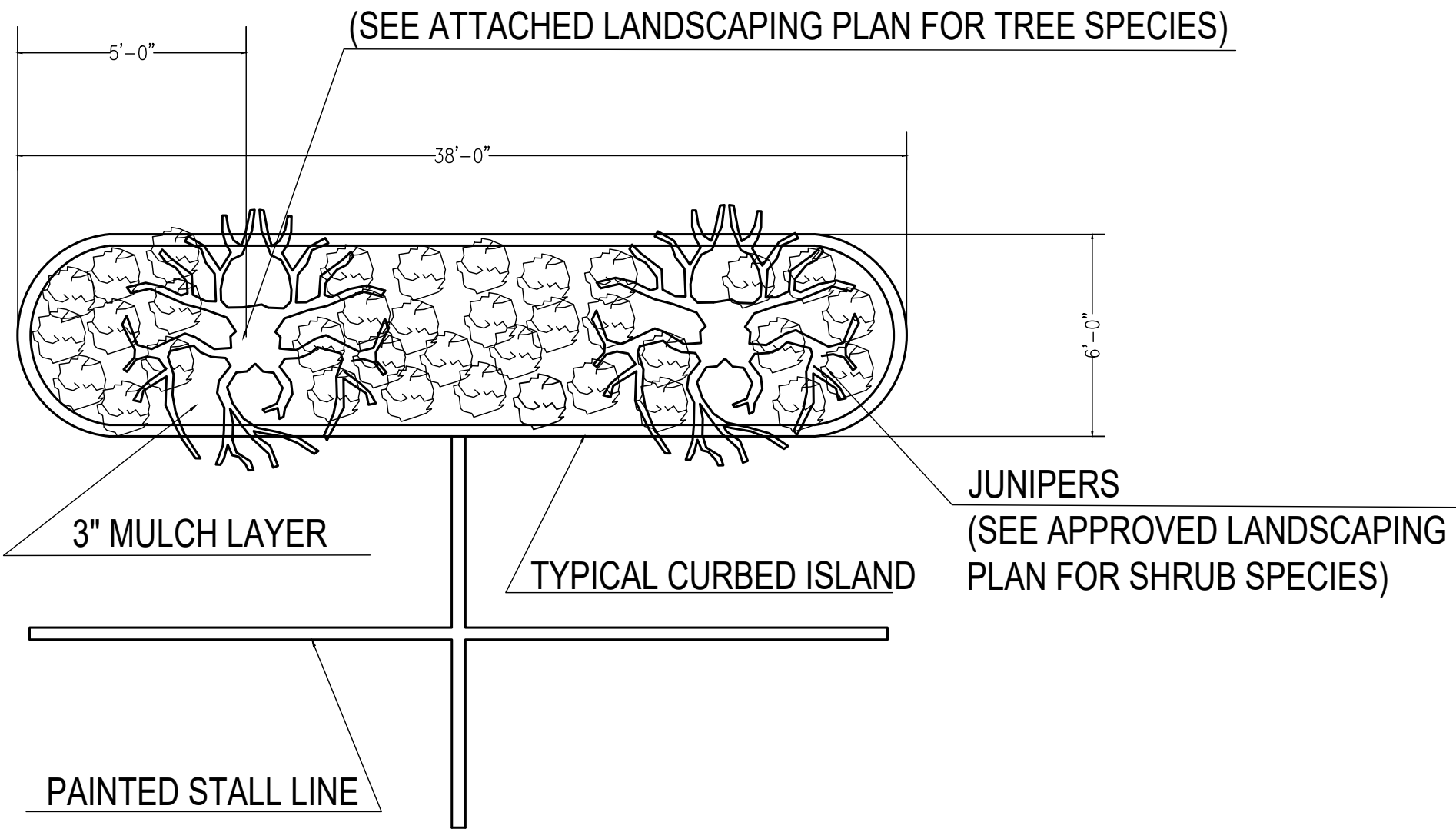
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CUT & FILL

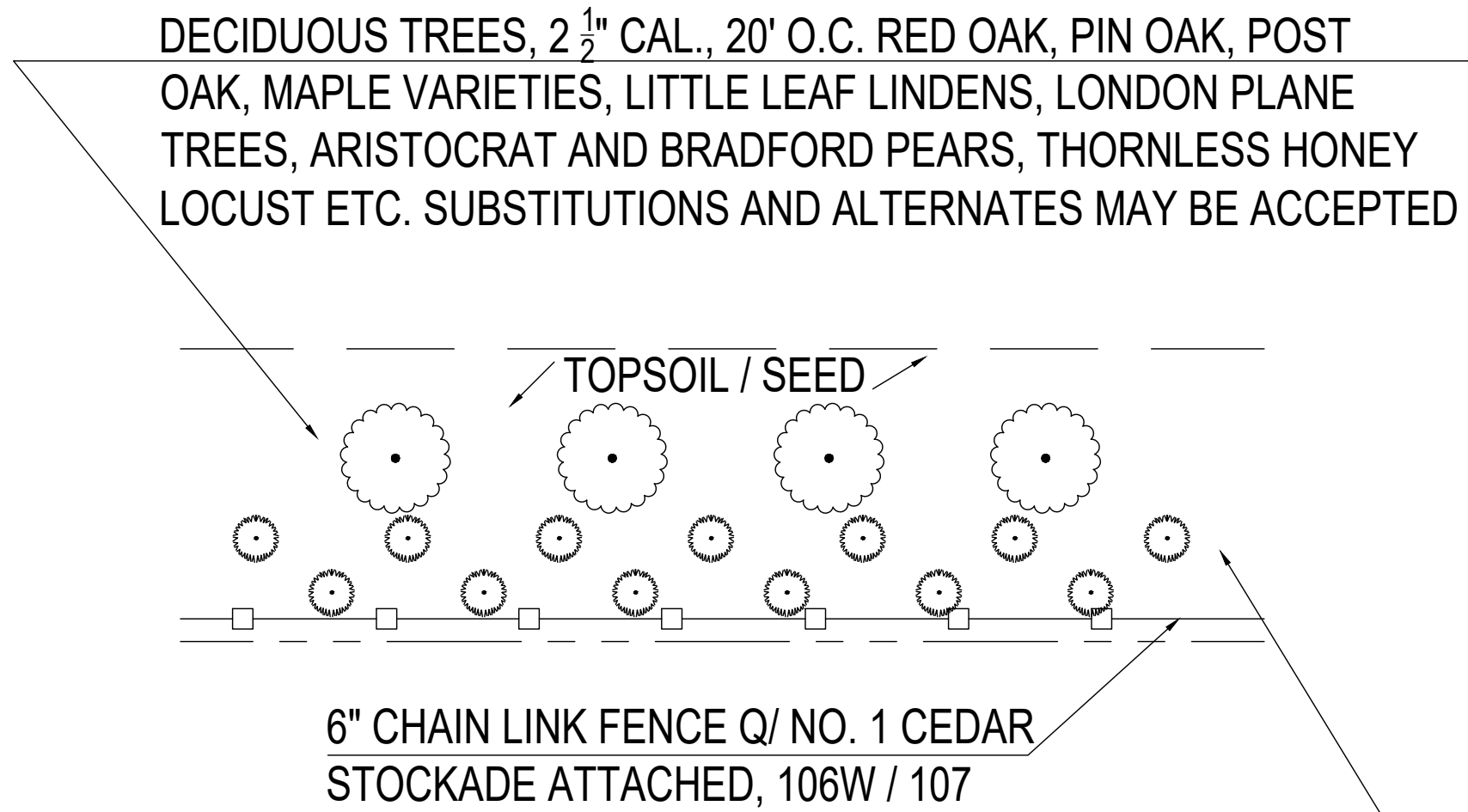
C-105

LANDSCAPE SCHEDULE			
BOTANICAL NAME	COMMON NAME	SIZE	QTY
QUERCUS RUBRA	RED OAK	2 1/2" CAL.	57
PSEUDOTSUGA MENZIESII	DOUGLAS FIR	6'-0" HT.	152
ACER BUERGERIANUM	TRIDENT MAPLE	2 1/2" CAL.	12
JUNIPERUS COMMUNIS	JUNIPER	3'-6" HT.	293

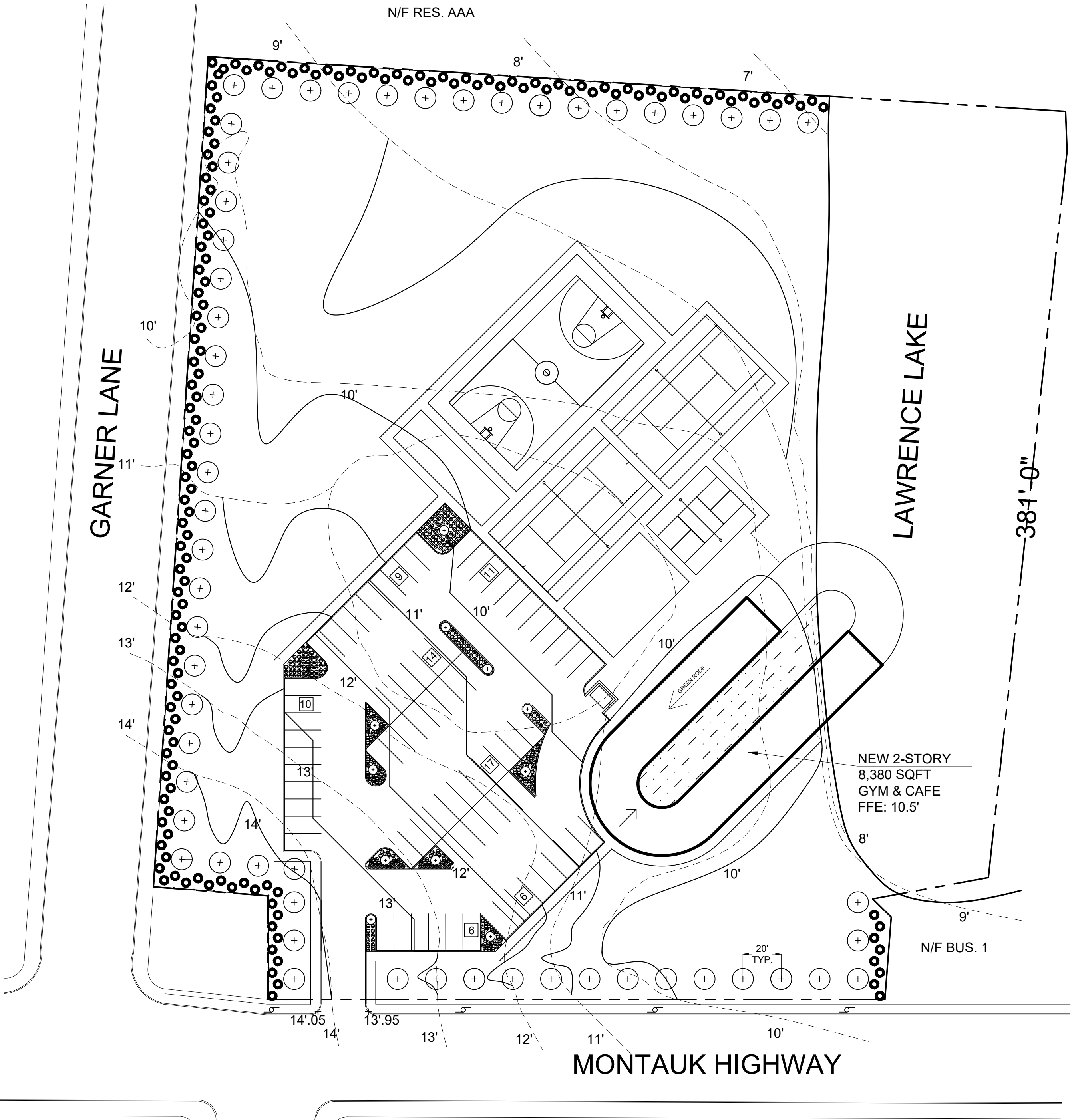
LANDACAPE LENGEND	
	BIOTOPE



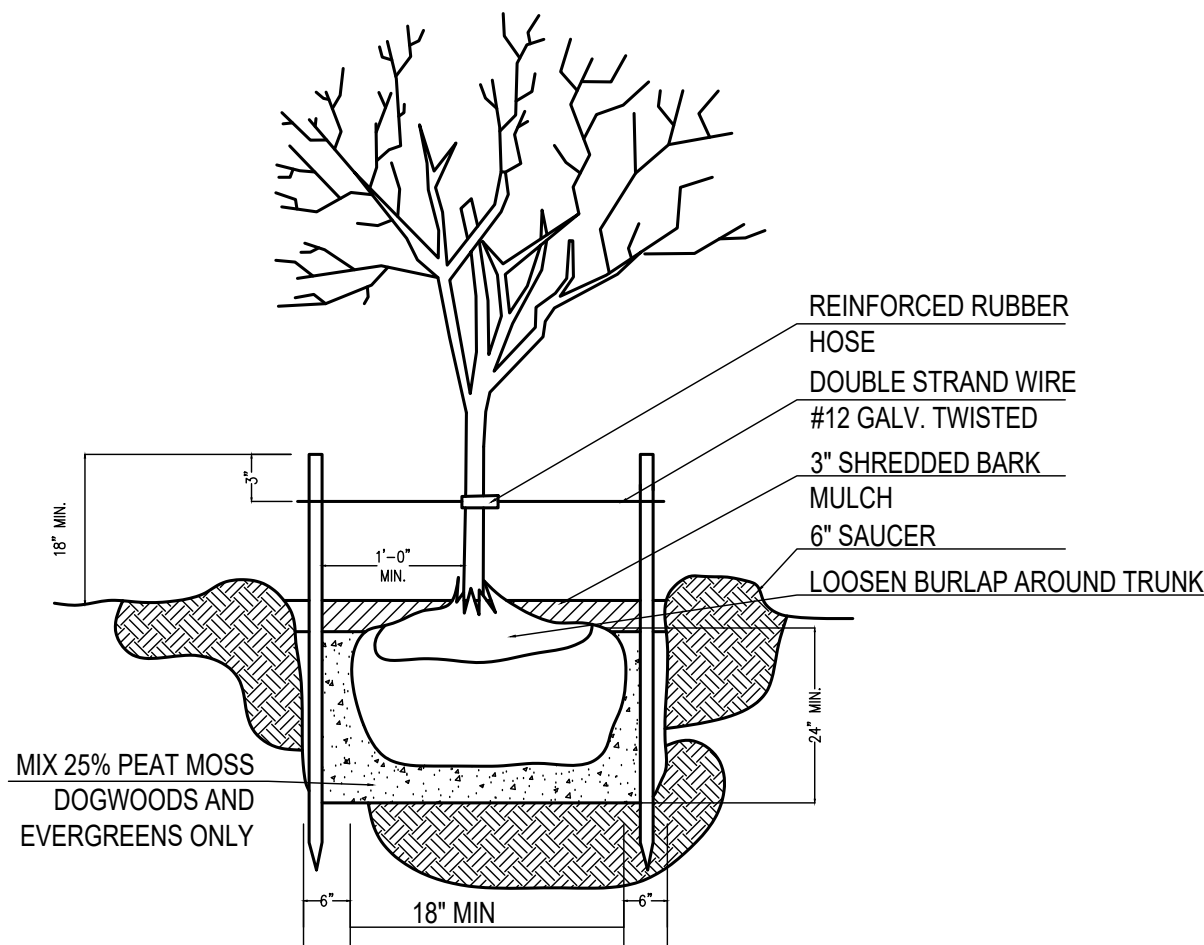
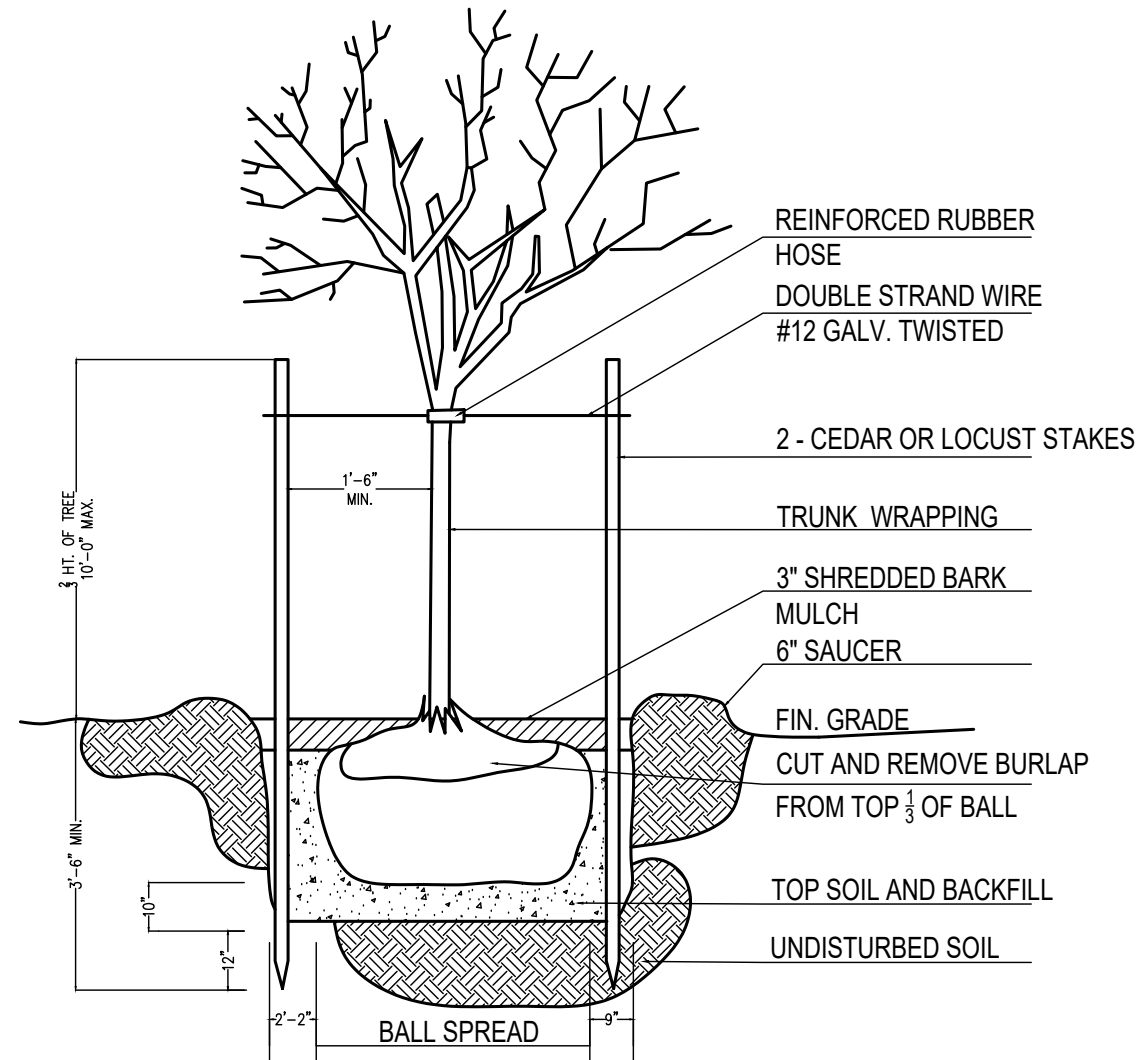
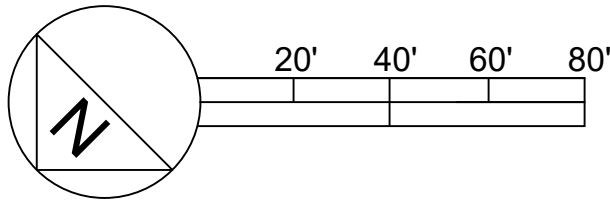
2 TYPICAL PLANTING ISLAND
SCALE: N.T.S.



3 BUFFER SCREEN PLANTING
SCALE: N.T.S.



1 LANDSCAPE PLAN
SCALE: 1" = 40'



4 PLANTING DETAIL
SCALE: N.T.S.



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LANDSCAPE PLAN

C-106



FARMINGDALE STATE
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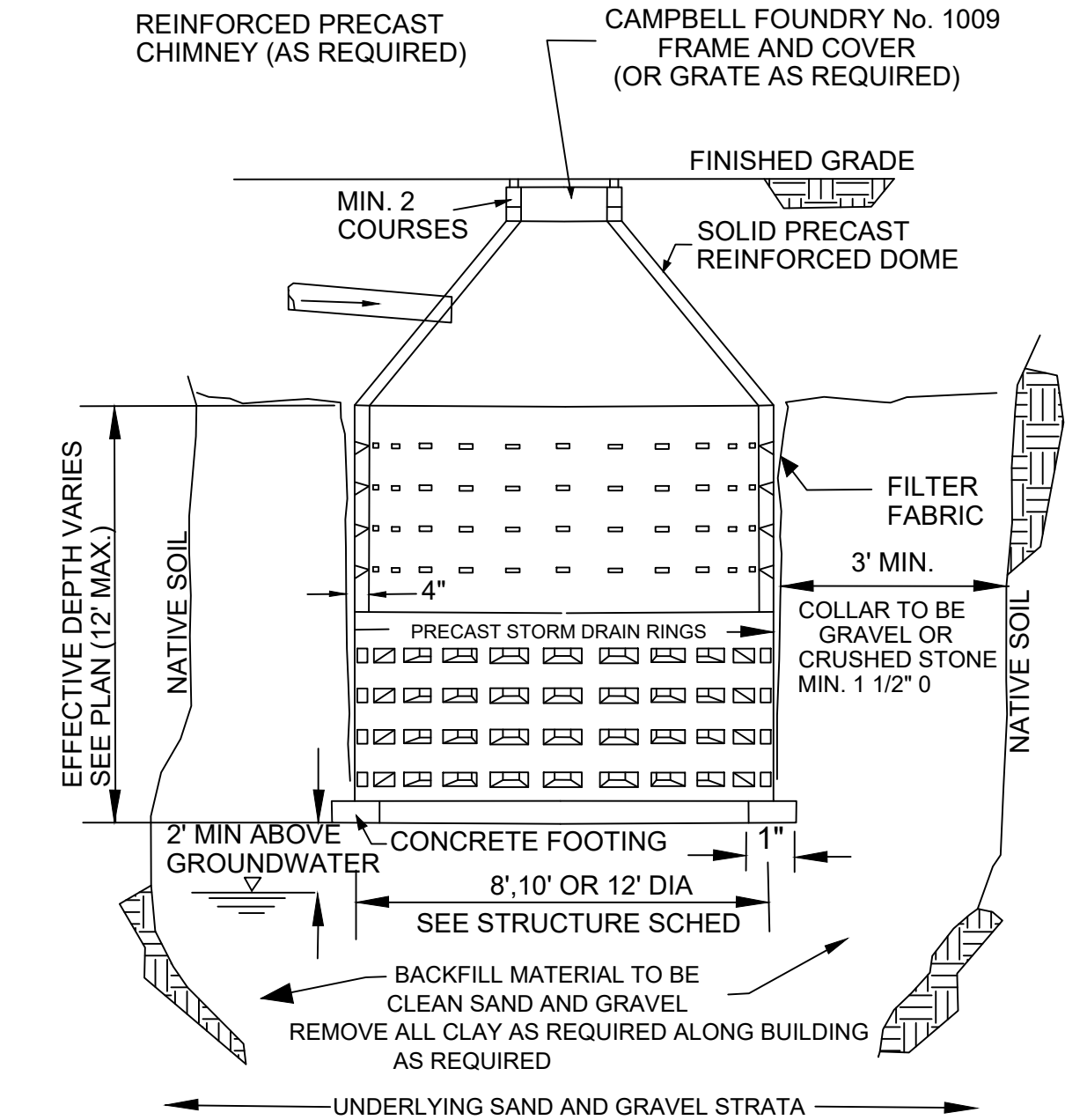
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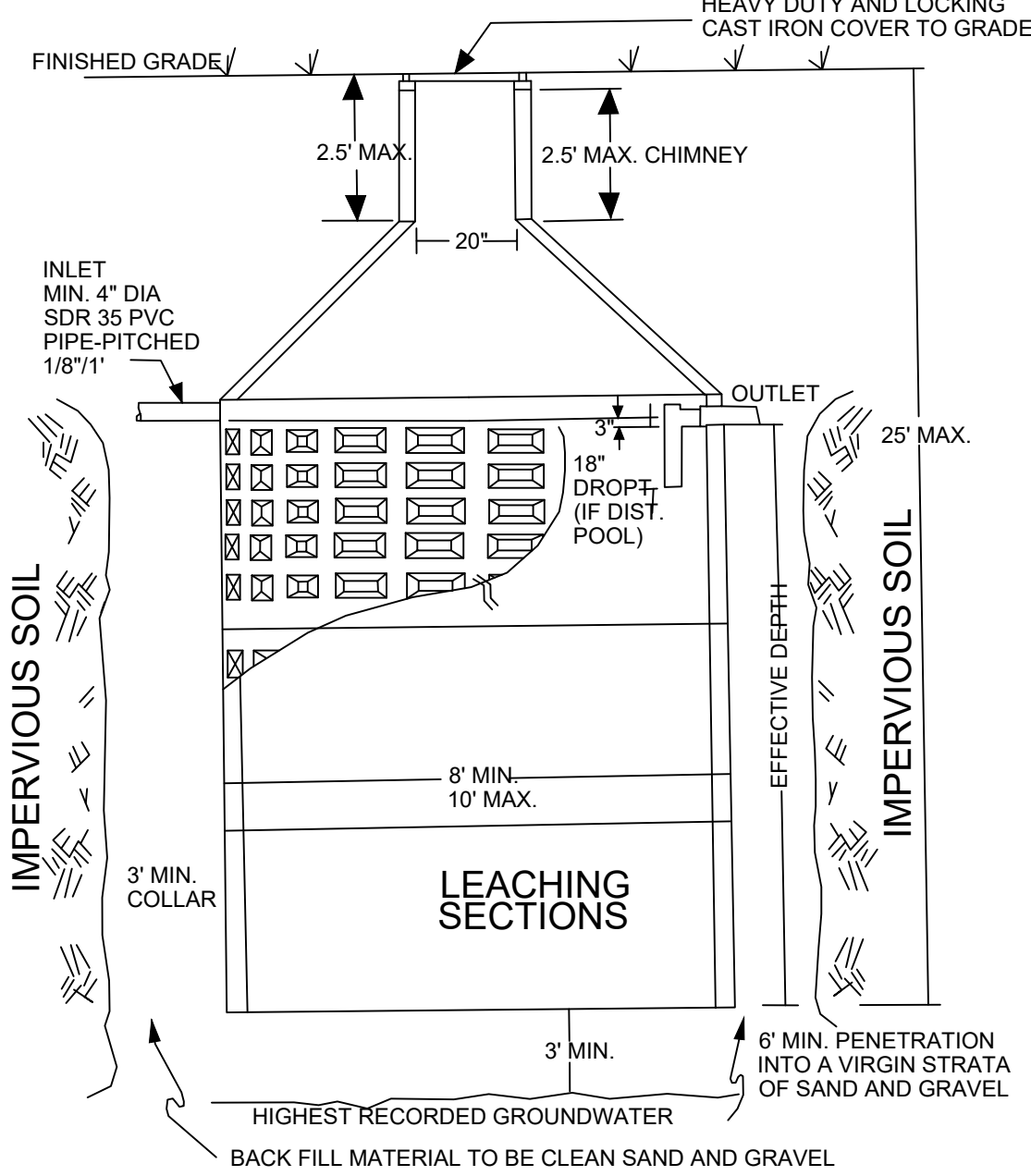
DETAILS

C-107

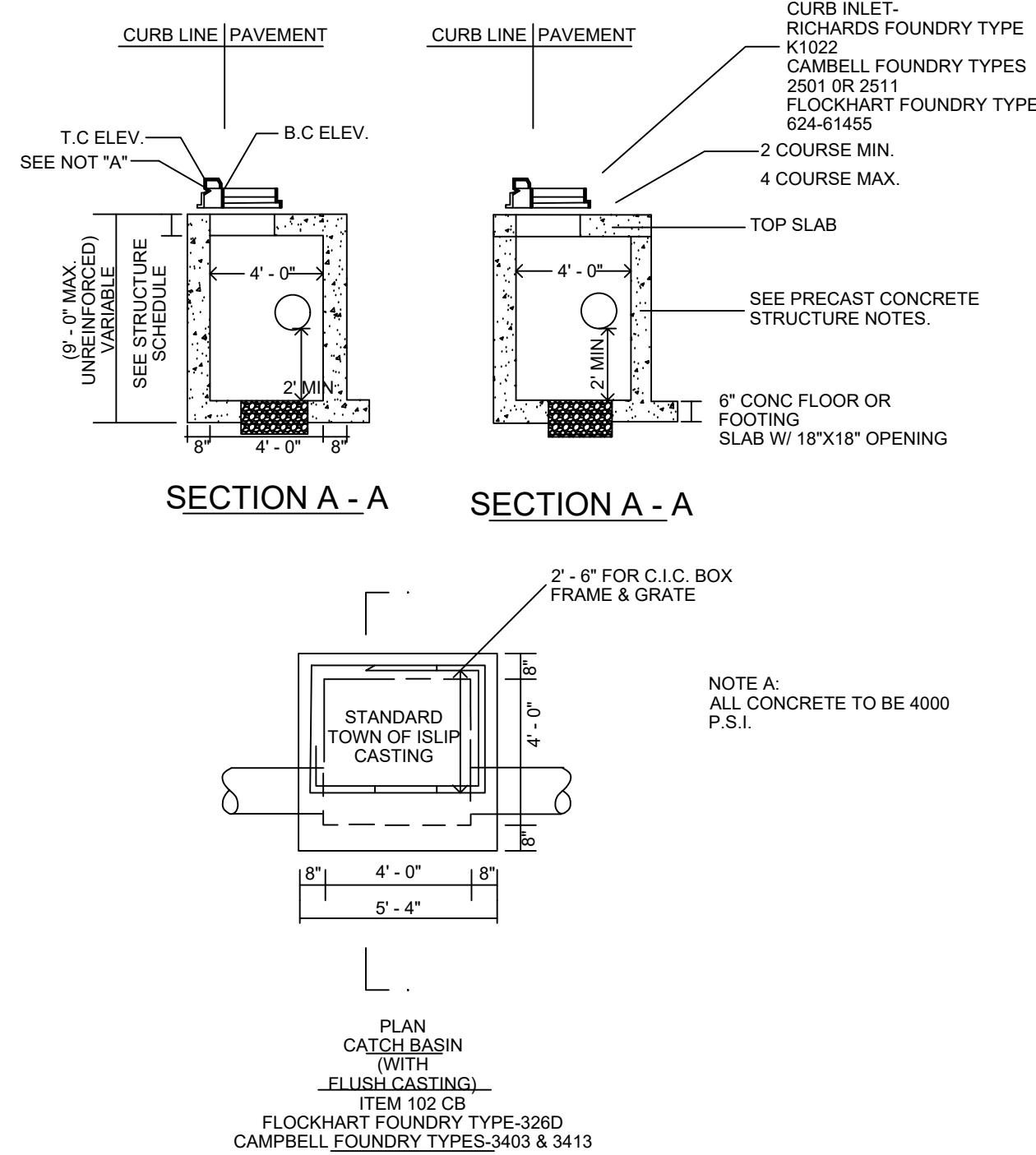


1 LEACHING BASIN
SCALE: N.T.S.

- NOTES:
1. TYPE "1" POOL HEIGHT AND WIDTH OF SECTIONS AS REQUIRED. INCL. REINFORCED DOME, CONC. FOOTING AND MANHOLE COVER
 2. MINIMUM OF 10' BETWEEN POOLS.
 3. ALL POOLS UNDER PAVEMENT TO HAVE SURFACE ACCESS.
 4. ALL OTHER LEACHING POOLS TO HAVE POSITIVE SURFACE ACCESS.
 5. ANY DRAINAGE STRUCTURES INSTALLED WITHIN R.O.W. SHALL BE 10' MAX. AND SHALL INCORPORATE FOOTING RING
 6. FILTER FABRIC REQUIRED

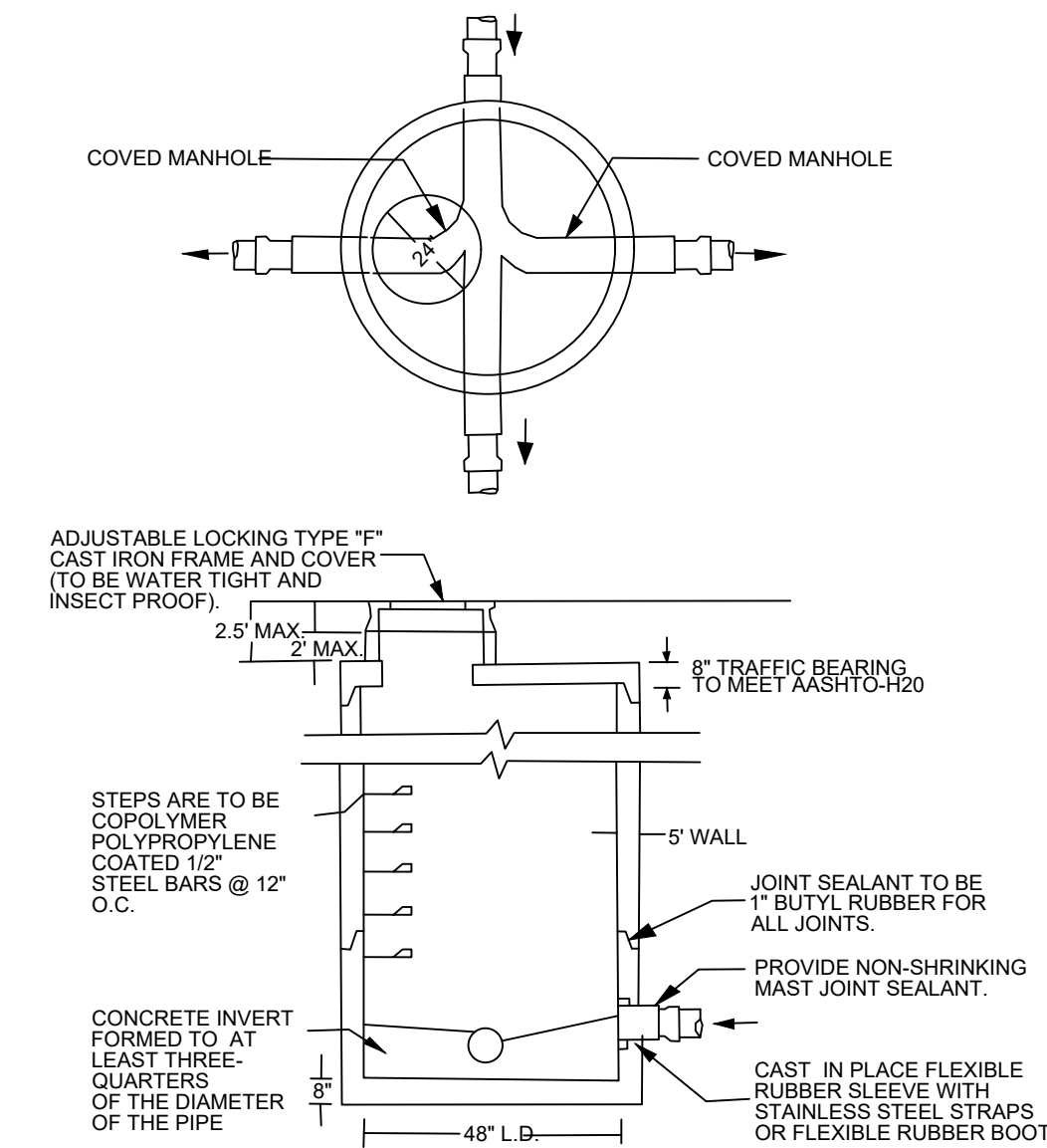


2 CONCRETE LEACHING POOL
SCALE: N.T.S.



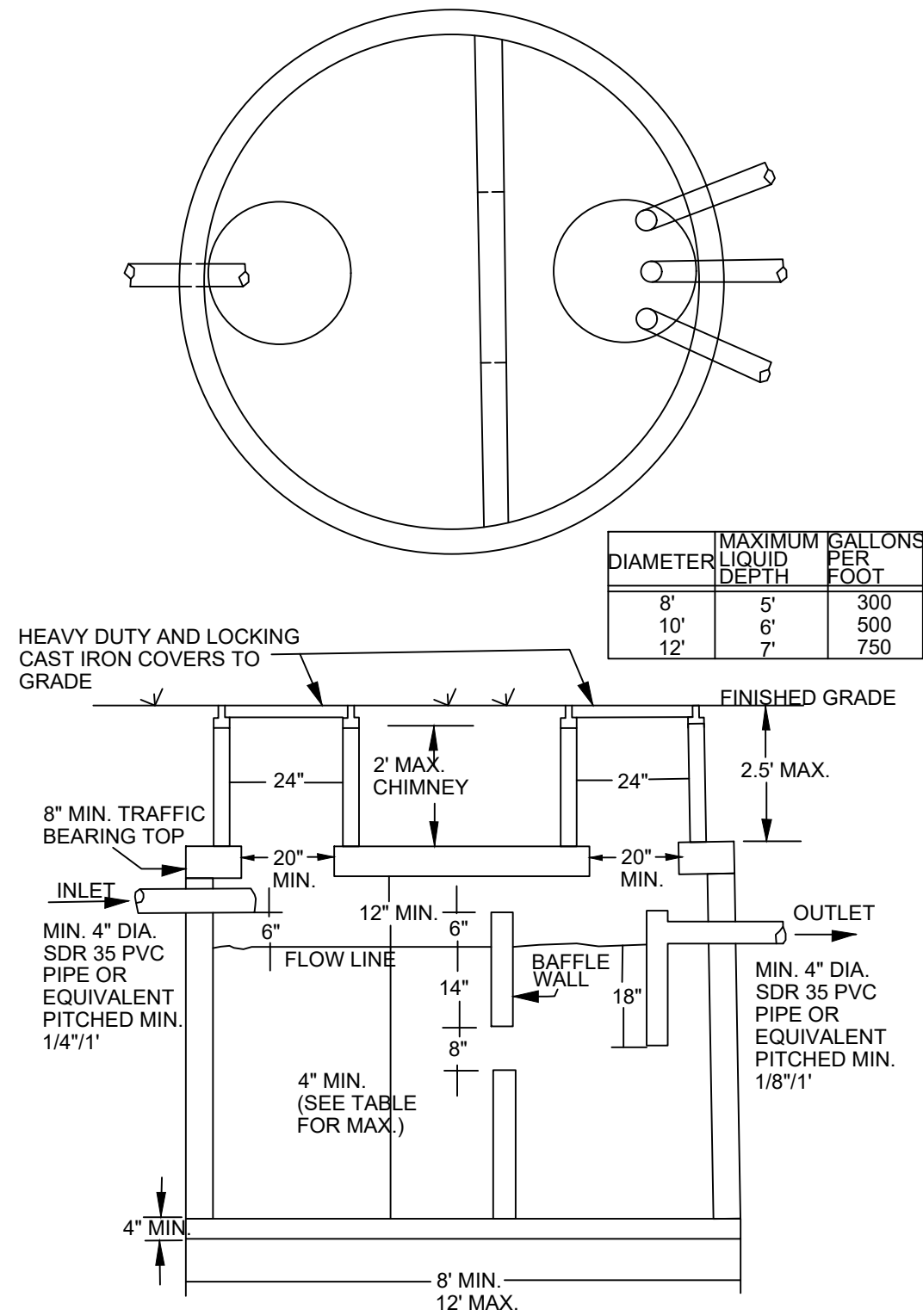
5 CATCH BASIN
SCALE: N.T.S.

6 TRENCH DRAIN
SCALE: N.T.S.

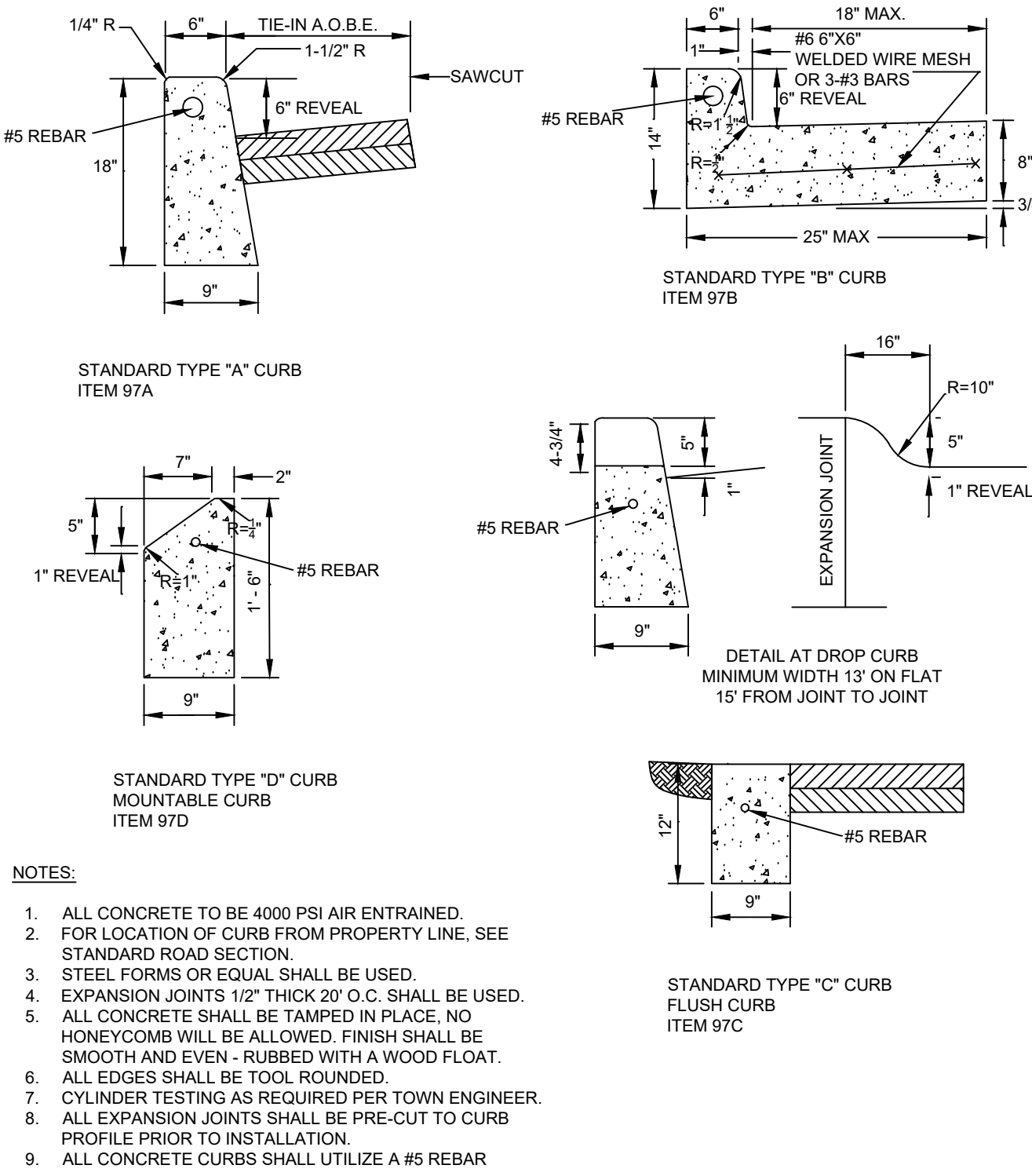


1. ALL MANHOLES SECTIONS SHALL CONFORM TO A.S.T.M. C-478, LATEST REVISION
2. STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE M.H. SECTIONS.
3. REQUIRED.
4. ALL CONCRETE IS TO MEET 4000 PSI AT 28 DAY SET.
5. ALL OUTLETS ARE TO BE SET AT THE SAME ELEVATION, 0.1' MINIMUM BELOW INLETS (S)

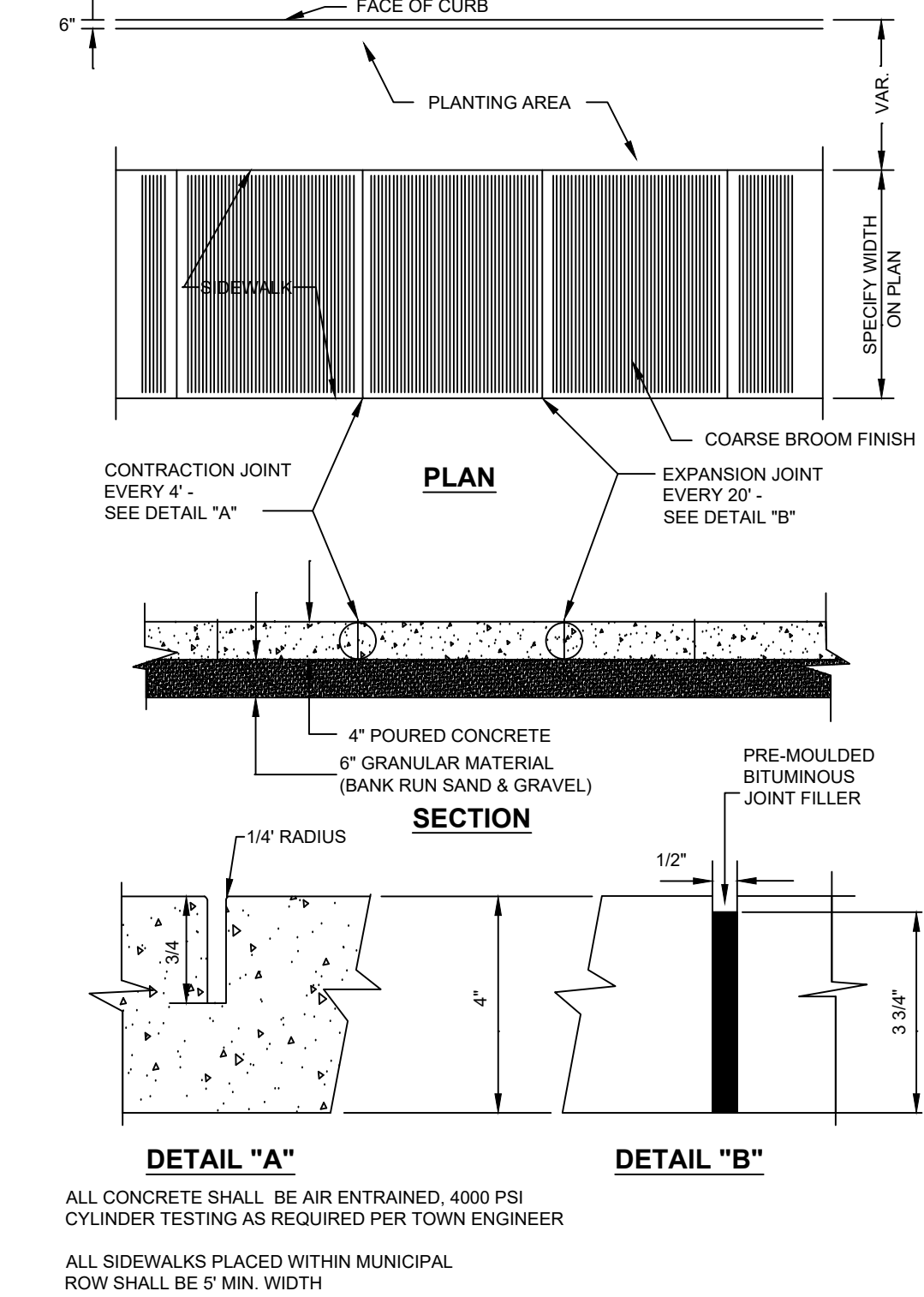
3 CONCRETE DISTRIBUTION MANHOLE
SCALE: N.T.S.



4 SINGLE UNIT CONCRETE SEPTIC TANK
SCALE: N.T.S.



7 CONCRETE CURB ITEM
SCALE: N.T.S.



8 CONCRETE SIDEWALK
SCALE: N.T.S.