

THE LOCATIONS AND DEPTHS OF ALL EXISTING UNDERGROUND UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. INTERFERENCE OR DISRUPTION OF SAME WILL BE THE RESPONSIBILITY OF THE

- CONTRACTOR. SEE ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS. NO PART OF THE LOT IS UNDER FLOODPLAIN.
- WATER SERVICE PROVIDED BY PUBLIC WATER.
- SANITARY SEWER SERVICE PROVIDED BY PUBLIC SANITARY
- THE OWNER/CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF THE EXISTING IMPROVEMENTS, AND PROPOSED CONSTRUCTION WITH REFERENCE TO THE PROPERTY LINE AND SETBACK REQUIREMENTS.

#### SITE GRADING NOTES:

- THE EXCESS DIRT SHALL BE TEMPORARILY STOCKPILED WITHIN THE LOCATION SHOWN ON THE PLAN, AND IT SHALL BE PROTECTED BY THE PROPOSED E&S MEASURES.
- ALL EXCESS DIRT FROM GRADING / EXCAVATING SHALL BE SPREAD UNIFORMLY IN THE REAR OF THE LOT MAINTAINING A MINIMUM OF 5% GRADE AWAY FROM THE STRUCTURE AND A MAXIMUM 3H:1V SLOPE.

- THE CONTRACTOR SHALL NOTIFY CALL BEFORE YOU DIG AND ALLOW ADEQUATE TIME FOR MARKING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK AND FOR ANY DAMAGES WHICH OCCUR BY HIS FAILURE TO LOCATE OR PRESERVE THESE UNDERGROUND AND OVERHEAD UTILITIES. IF, DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR ENCOUNTERS UTILITIES OTHER THAN THOSE INDICATED BY CALL BEFORE YOU DIG AND MEMBER UTILITY COMPANIES, HE (SHE) SHALL IMMEDIATELY NOTIFY THE OWNER AND TAKE NECESSARY AND APPROPRIATE STEPS TO PROTECT THE FACILITY AND ASSURE THE CONTINUATION OF SERVICE.
- THE SITE CONTRACTORS/DEVELOPERS MUST VERIFY THE LOCATIONS AND ELEVATIONS OF ALL PUBLIC AND PRIVATE UTILITIES AND STRUCTURES AFFECTING THE SITE PRIOR TO THE START OF THE CONSTRUCTION. ANY CONFLICT WITH THE PLAN MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY FOR RESOLUTION. FAILURE TO VERIFY EXISTING UTILITIES MAY RESULT IN COSTLY DELAYS AND REMEDIAL MEASURES.

TOPOGRAPHY NOTE: TOPOGRAPHIC INFORMATION SOURCE: "CAPITOL REGION COUNCIL OF GOVERNMENTS" 2016. AERIAL RETRIEVED HTTP://CTECO.UCONN.EDU/DATA/FLIGHT2016

# SURVEY PERFORMED BY RCL THOMPSON LLC 1/5/2020.

# 1. THE WATER LATERAL CONNECTIONS TO THE PUBLIC MAIN REMAIN

THE SEWER LATERAL CONNECTION TO PUBLIC SANITARY SEWER REMAINS THE SAME.

# CONSTRUCTION ENTRANCE NOTE:

- DEPENDING ON ACTUAL SITE CONDITIONS AND LIMITATIONS, IN THE FIELD THE SITE INSPECTOR MAY ALLOW AN EXISTING DRIVEWAY TO BE USED AS A CONSTRUCTION ENTRANCE, OR THE LENGTH OF THE STANDARD CONSTRUCTION TO BE MODIFIED. THE EXISTING ASPHALT DRIVEWAY WILL BE USED AS THE
- CONSTRUCTION ENTRANCE FOR DEMOLITION AND CONSTRUCTION. WATER SOURCE WILL BE PROVIDED TO CLEAN DIRT AND DEBRIS FROM CONSTRUCTION VEHICLES BEFORE ENTERING INTO THE PUBLIC ROAD.

# STOCKPILE NARRATIVE:

- THE SOIL FROM EXCAVATING FOUNDATION WILL BE STOCKPILED IN THE AREA AS SHOWN ON THIS SITE PLAN.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. ALL SOIL STOCKPILES, IF ANY, SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS AFTER GRADING. THE HEIGHT OF THE STOCKPILES MATERIAL SHALL NOT EXCEED FOUR
- 4. THE MAXIMUM SLOPE OF THE STOCKPILE SHALL NOT BE GREATER
- THAN 3H: 1V. THE STOCKPILE MATERIALS SHALL BE PROTECTED FROM DRAINING INTO ADJOINING NON DISTURBED AREA BY SILT FENCE OR ANY

MATERIALS (IF ANY) SHALL BE GRADED INTO THE REAR YARD.

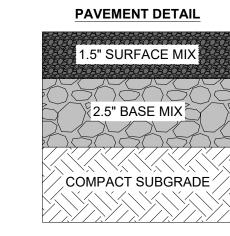
PARKING SPACE REQUIREMENTS: FROM INSTITUTE OF TRAFFIC ENGINEERS (ITE): 2.45 SPACES PER 1000 FEET OF GROSS SQUARE FOOTAGE

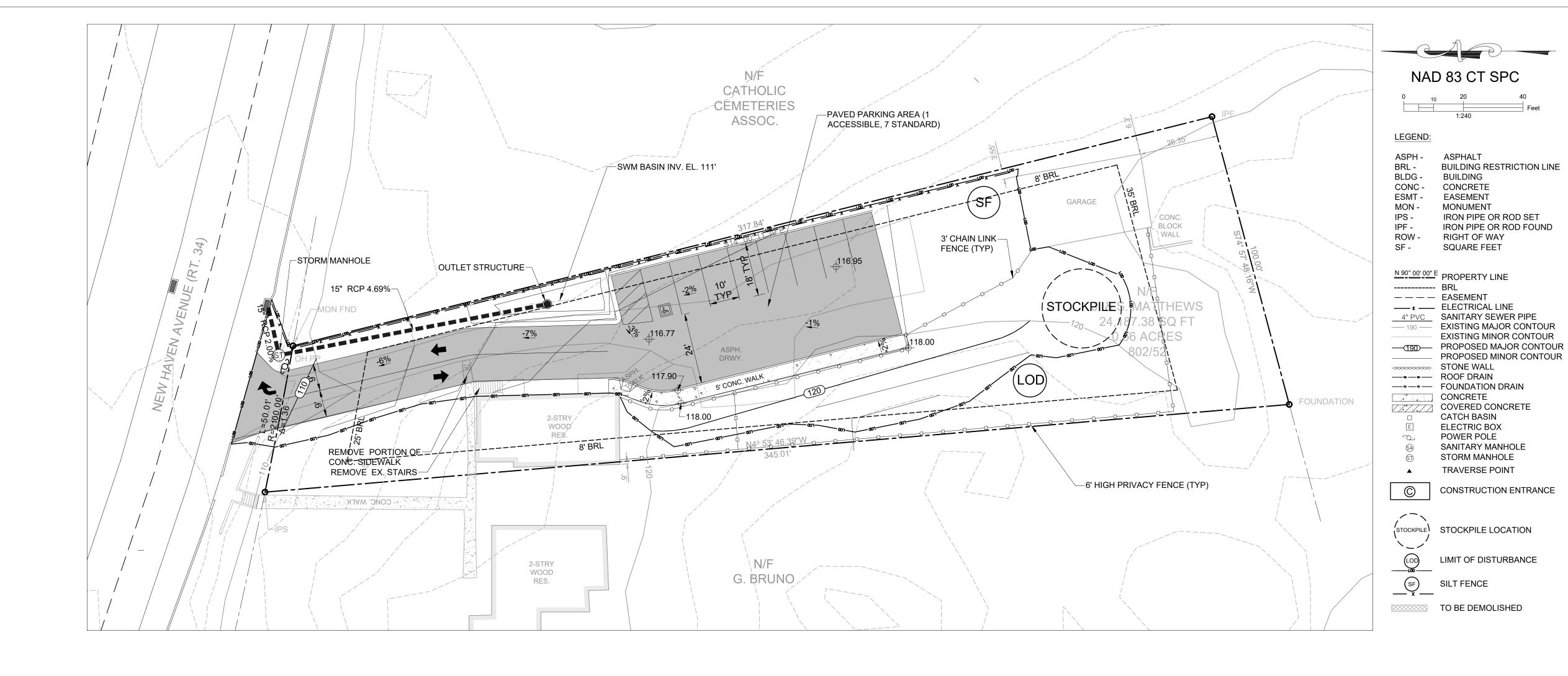
OTHER SEDIMENT CONTROL DEVICES. EXCESS OR UNUSED STOCKPILE

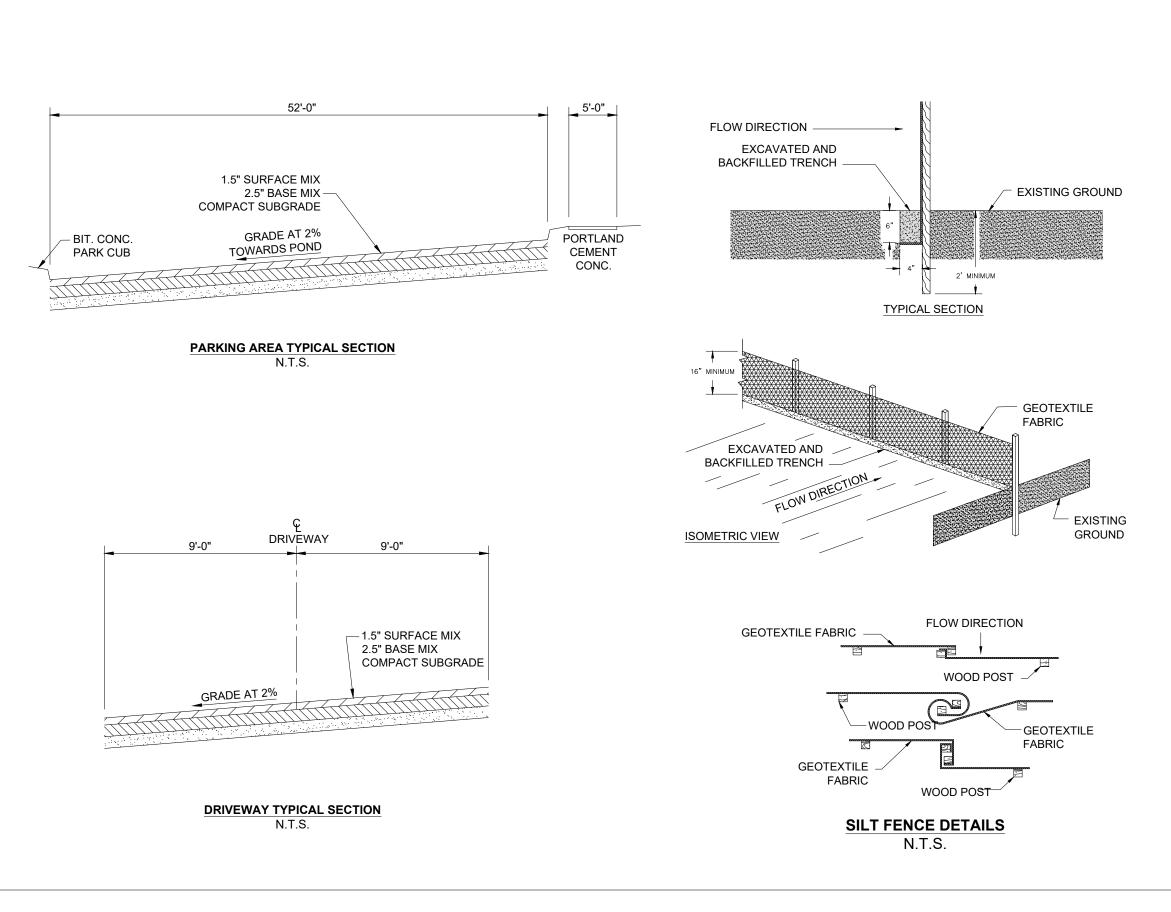
# 3200 GROSS SQUARE FEET

 $\frac{3200}{1000}$  = 3.2 X 2.45 SPACES PER 1000 SF = 7.84

# TOTAL = 7.84 (ROUND UP TO 8 SPACES)







IMPERVIOUS AREA COMPUTATION	(SQ FT)					
<u>Description</u>	<u>Pre-Dev</u>	<u>Remain</u>	<u>Remove</u>	<u>Add</u>	Post-Dev	
House	1,135	1,135	-	<del>-</del>	1,135	
Asphalt Driveway / Parking	4,263	-	4,263	8165	8,165	
Garage	1,046	1,046	-	-	1,046	
External Stairs	76	-	76	-	-	
Covered Porch / Patio	89	-	89	-	-	
Sidewalk	101	80	21	941	1,021	
TOTAL IMPERVIOUS AREA (SQ FT)	6,710				11,367	
PERVIOUS AREA/GRASS AREA (SQ F	Γ) 17,477	SF			12,820	SF
TOTAL SITE AREA =	24,187	SF			24,187	SF
INCREASE IN IMPERVIOUS AREA = TOTAL % OF IMPERVIOUS AREA =	4,657 (11367 X 100		>18% MAX,	DMD DE∩I	IIDEN	
TOTAL % OF HVIPERVIOUS AREA -	24,187	47.0%	~10/0 IVIAA,	DIVIF REQU	JIKED	
"C" FACTORS CALCULATION						
A. PRE-DEVELOPMENT						
(6710 x 0.9 + 17477.38 x .25) =	0.43					
24,187	_					
b. POST-DEVELOPMENT						
(11367 x 0.9 + 12820.38 x 0.25)=	0.56					
24,187						
RUNOFF COMPUTATION (Q=CIA)						
A. PRE-DEVELOPMENT						
(5 MIN Tc) Q2 =	(0.43x4.97x	0.56) =	1.19	CFS		
Q10 =	(0.43x7.51x)	0.56) =	1.79 C	CFS		
B. POST-DEVELOPMENT						
(5 MIN Tc) Q2 =	(0.56x4.97x	0.56) =	1.55 C	CFS		
Q10 =	(0.56x7.51x)		2.34 (	CFS		
C. CHANGE IN RUNOFF						
Q2 = 1.55 - 1.19 =	0.36	CFS				
010 001 170	3.55					

**0.55** CFS

Q10 = 2.34 - 1.79 =

		PROPOSED USE:	DAY CARE / PRE-SCHOOL	
		NUMBER OF LOTS:	1 EXISTING	
		ZONING DATA		
REQUIRED INTERSECTION SIGH	T DISTANCE		REQUIRED /	
	REQUIRED		ALLOWED	PROVIDED
DESIGN	ISD	MIN. LOT AREA	7,500 SF	24,187.38
SPEED	(ft)	MIN. LOT WIDTH AT FRONT BUILDING LINE	75'	75'
45 MPH	500	PRINCIPAL BUILDING SETBACKS		
TURNING RIGHT ONTO MAJOR	ROAD	MIN. FRONT YARD SETBACK	25'	25'
SOURCE: CTDOT HIGHWAY DES	SIGN MANUAL	MIN. SIDE YARD SETBACK	8'	8'
		MIN. REAR YARD SETBACK	35'	35'

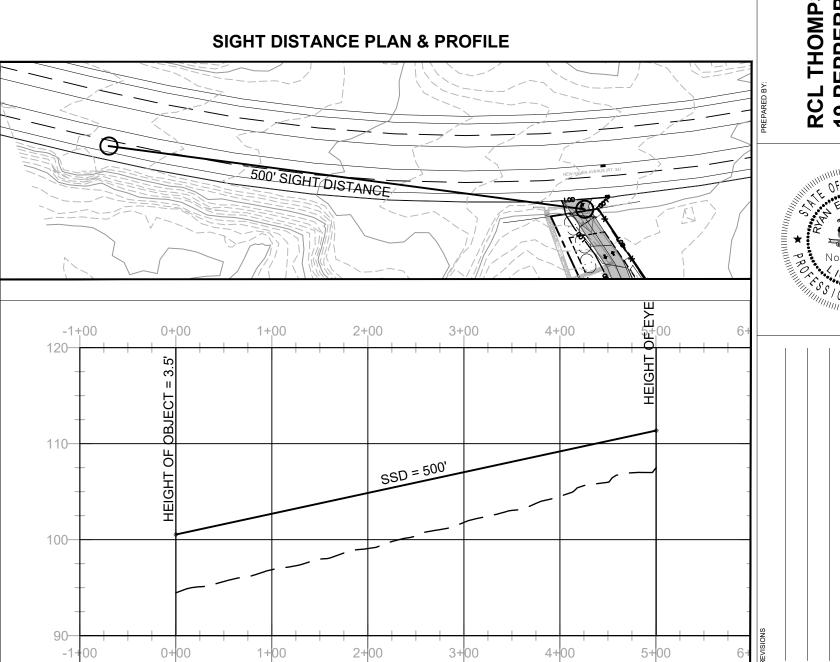
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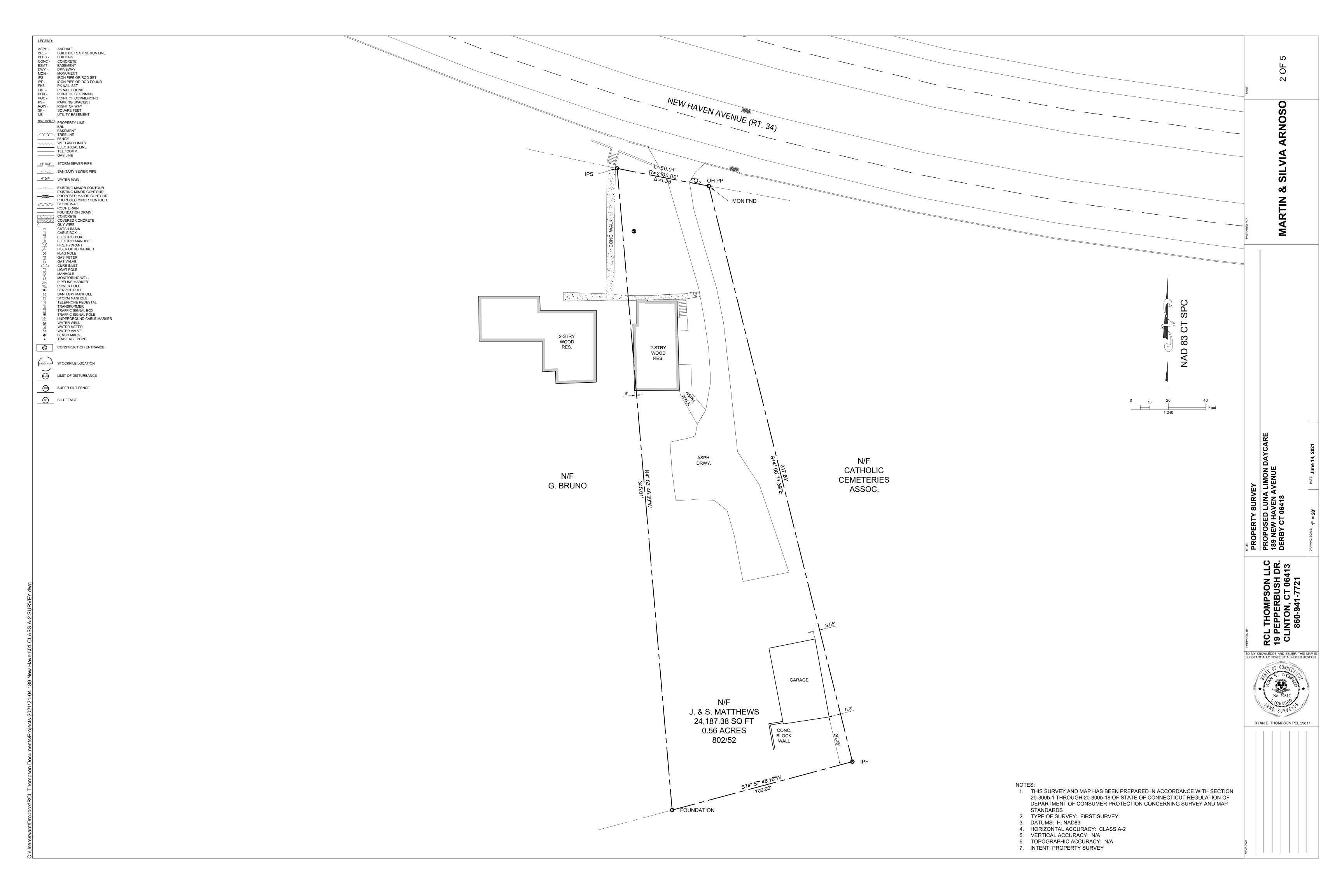
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PROJECT DATA

TOTAL AREA:

**EXISTING ZONE:** 





4 OF 5

SHEET

N & SILVIA ARNOS

PREPARED FOR:

ESC B DAYCARE /EN AVENUE

PEPPERBUSH DR. LINTON, CT 06413



### **EROSION & SEDIMENT CONTROL NOTES**

#### NARRATIVE

SEDIMENT & EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT & EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED. ALL SEDIMENT & EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002" AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

#### PURPOSE AND SCOPE

- a. REMOVAL OF EXTERIOR STAIRS AND COVERED PATIO b. RENOVATIONOF STRUCTURE INTO DAYCARE FACILITY
- c. CONSTRUCTION OF STORM WATER MANAGEMENT BASIN AND ASSOCIATED OUTLET STRUCTURE AND STORM SEWER
- d. WIDENING OF DRIVEWAY TO 18' (TWO 9' LANES)
  e. CONSTRUCTION OF 8 SPACE PAVED PARKING LOT
- f. CONSTRUCTION OF 4 SPACE GRAVEL OVERFLOW PARKING (POTENTIAL EXPANSION PARKING)
- g. CONSTRUCTION OF 5' WIDE CONCRETE SIDEWALK h. SITE GRADING AS NECESSARY

#### AREA OF DISTURBANCE = 14,400 SF

#### **EROSION & SEDIMENT CONTROL CONCERNS**

a. CUTS AND FILLS ASSOCIATED WITH SITE GRADING
b. PROTECTION OF OFFSITE DRAINAGE AND NEIGHBORING PROPERTIES

### CONSERVATION PRACTICES INCORPORATED INTO THE PROJECT AREA

c. DETAILED STORMWATER AND SEDIMENT CONTROL PLAN

#### PARTY RESPONSIBLE FOR SOIL AND EROSION CONTROLS

d. SITE CONTRACTOR

#### GENERAL E&S NOTES

- THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING CONSTRUCTION.
- 2. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT EROSION ON THE SITE.
- 3. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP OF CLEARING.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE BUILDING INSPECTOR.
- ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
   THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING
- 6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS.
   DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH
- SEDIMENT TRAPPING MEASURES.

  9. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABLIZED.

  10. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. ADDITIONAL SLOPE STABILIZATION
- MEASURES SHOULD BE PROVIDED TO PREVENT EXCESS EROSION ON SLOPES.

  11. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY
- OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.

  12. ADEQUATE DRAINAGE PROTECTION SHALL BE MADE WHENEVER WATER SEEPS FROM A SLOPE FACE.
- 13. ALL STORM SEWER INLETS (IF ANY) THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED.
- 14. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS TO WORKING WITHIN OR CROSSING A WATERCOURSE SHALL BE
- 15. PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE AREA, WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PUBLIC OR PAVED ROADS.
- 16. ALL TEMPORARY EROSION / SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION WITH THE PERMISSION OF THE INSPECTOR.

### PERMANENT SEEDING

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED SHALL BE SEEDED WITHIN 7 DAYS OF ESTABLISHMENT OF FINAL GRADES.

### SITE PREPARATION

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
   APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- APPLY TOPSOIL AS INDICATED ELSEWHERE HEREI
   APPLY FERTILIZER ACCORDING TO SOIL TEST OR:

# SILT FENCE

# SILT FENCE SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:.

- 1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER, OR ETHYLENE YARN.
- SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0 DEGREES FAHRENHEIT TO 120 DEGREES FAHRENHEIT.
   IF WOODEN STAKES ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A DIAMETER OF 2" WHEN OAK IS USED
- AND 3" WHEN PINE IS USED. WOODEN STAKED MUST HAVE A MINIMUM LENGTH OF 5'.

  4. IF STEEL POSTS (STANDARD "U" AND "T" SECTION) ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A MINIMUM
- WEIGHT OF 1.33 POUNDS PER LINEAR FOOT AND SHALL HAVE A MINIMUM LENGTH OF 5'.
   THE HEIGHT OF A SILT FENCE SHALL BE A MINIMUM OF 16" ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED
- 34" ABOVE GROUND ELEVATION
  6. SILT FENCE SHOULD BE USED FOR DRAINAGE AREAS THAT ARE NO LARGER THAN 0.25 ACRES PER 100' OF SILT FENCE LENGTH.
  THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100'. THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1. SILT FENCE
- THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100'. THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1. SILT FENC IS BEST USED WHEN THE SLOPE ABOVE THE FENCE, EITHER CUT OR FILL, IS NOT STEPPER THAN 3:1.

#### ≦ ⊔GRADING

- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES,
- SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
  1. THE PERMANENT CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- THE PERMANENT EXPOSED FACES OF EARTHEN FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
- 4. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
- 5. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
- 6. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT
- WETLANDS, WATERCOURSES, OR WATER BODIES BODIES.

  7. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

IMPERVIOUS AREA COMPUTATION	(SQ FT)					
Description	Pre-Dev	Remain	Remove	Add	Post-Dev	
House	1,135	1,135			1,135	
Asphalt Driveway / Parking	4,263	-	4,263	8165	8,165	
Garage	1,046	1,046	-	-	1,046	
External Stairs	76	-	76	_	-	
Covered Porch / Patio	89	-	89	-	-	
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"C" FACTORS CALCULATION	24,187					
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(6710 x 0.9 + 17477.38 x .25) = 24,187						
b. POST-DEVELOPMENT						
(11367 x 0.9 + 12820.38 x 0.25)= 24,187	0.56					
RUNOFF COMPUTATION (Q=CIA)						
A. PRE-DEVELOPMENT						
(5 MIN Tc) Q2 =	(0.43x4.97x0	0.56) =	1.19 (	CFS		
Q10 =	(0.43x7.51x0	(0.43x7.51x0.56) =		CFS		
Q100 =	(0.43x11.54)	(0.56x1.1) =	3.03 (	CFS	1.1 saturatio	n facto
B. POST-DEVELOPMENT						
(5 MIN Tc) Q2 =	(0.56x4.97x0	).56) =	1.55 (	CFS		
i de la companya de						

(0.56x7.51x0.56) =

(0.56x11.54x0.56x1.1) =

**0.36** CFS

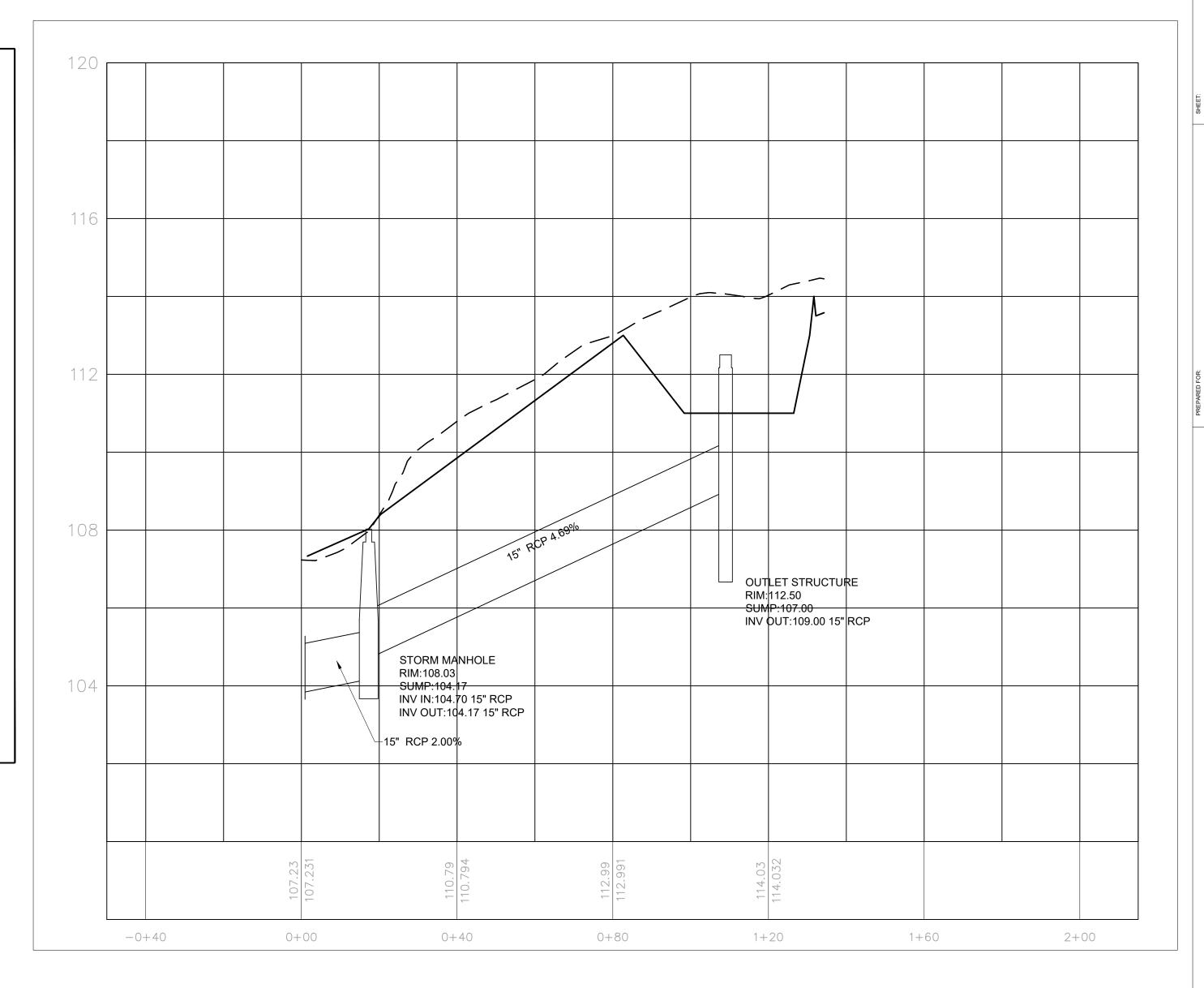
**0.55** CFS

**0.92** CFS

2.34 CFS

3.95 CFS

1.1 saturation factor



# SIGN DETAIL

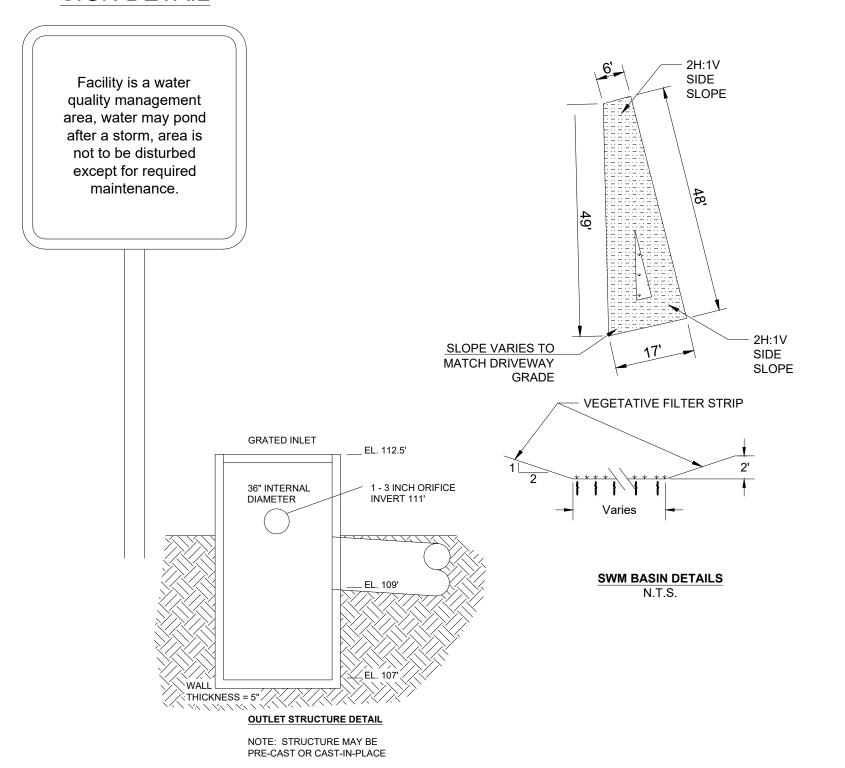
Q10 =

Q100 =

C. CHANGE IN RUNOFF

Q2 = 1.55 - 1.19 = Q10 = 2.34 - 1.79 =

Q100 = 3.95 - 3.03 =



9 PEPPERBUSH DR. DEF



