

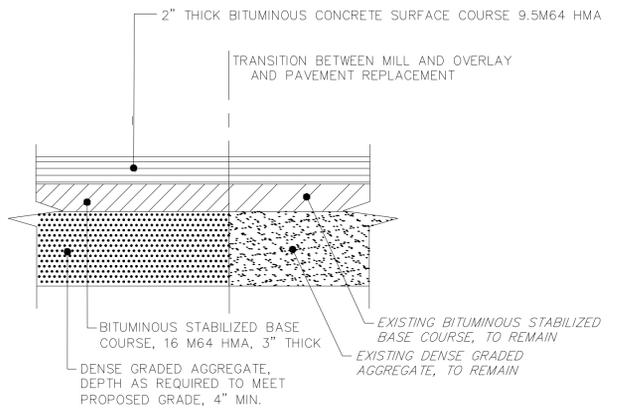
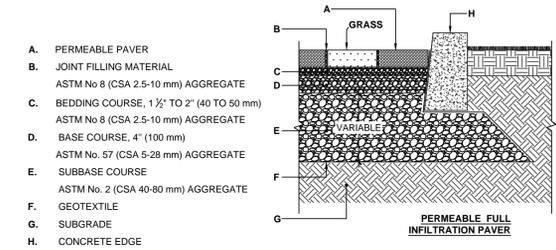


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DOB NOW JOB #

### ZONING TABLE

SINGLE FAMILY-R22 ZONE - NEW GARAGE, NO CHANGES TO EXIST. RESIDENTIAL HOUSE				
REQUIREMENTS	REQ.	EXISTING	PROPOSED	VARIANCE
MINIMUM LOT AREA	22,500 SF	1.01 ACRE	NO CHANGE	N/A
MINIMUM LOT WIDTH	125'	128.45'	NO CHANGE	N/A
MAX FLOOR AREA RATIO	0.2	1972 SF	NO CHANGE	N/A
MIN. STREET FRONTAGE	75'	129'	NO CHANGE	N/A
REQ. FRONT YARD	40'	64'-2"	15'-5"	YES
REQ. SIDE YARD	25'	35'-9"	NO CHANGE	N/A
TOTAL SIDE YARD	60'	88'-4"	NO CHANGE	N/A
REQ. REAR YARD	45'	237'-0"	NO CHANGE	N/A
MAX. BLDG. HEIGHT INCH PER FT FROM LOT LINE	9"	--	NO CHANGE	N/A



ASPHALT REPLACEMENT SECTION  
N.T.S.

#### MAP REFERENCE:

1. MAP ENTITLED "SURVEY & TOPOGRAPHY FOR GREENFIELD & KINDERMANN" PREPARED BY ANTHONY R. CELENTANO P.E., DATED SEPTEMBER 13, 2020.
2. MAP ENTITLED "1922 PLAN SH8136, MAP# M15" PREPARED BY NEW YORK STATE DOT, DATED JUNE 6, 1922.

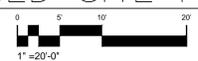
#### LEGEND

- IRON PIPE/STEEL REBAR
- W/V WATER VALVE
- MAIL BOX
- ☼ TREE
- ⊕ UTILITY POLE
- GUY WIRE
- OHW OVERHEAD WIRE
- G/F GUIDE FENCE
- ▨ BUILDING



### PROPOSED SITE PLAN

benchmark  
by GPS  
NAVD88



**PUBLIC R.O.W. NOTES**  
 IN THE EVENT TO ANY DAMAGE TO PUBLIC RIGHT OF WAY, REPAIRS SHALL BE MADE IN ACCORDANCE WITH TOWNSHIP STANDARDS.

NO.	DATE	DESCRIPTION	APPRD.

PROJECT LOCATION:  
918 NYS ROUTE 9W  
NYACK, NY

PROJECT DESCRIPTION:  
SITE PLAN FOR  
NEW GARAGE



DR. GJ TR. GJ  
CK CK RES. CK CK  
GUY LACOMARSINO, P.E.  
PROFESSIONAL ENGINEER  
PROJECT MANAGER  
LICENSE NO. (NY): 073596

SCALE:  
1" = 20'

DATE:  
JUNE 2025

C-100  
SHEET 1 OF 4

GENERAL ELECTRICAL NOTES

- CONTRACTOR SHALL PROVIDE CATALOG CUT SHEET SUBMITTALS FOR ALL EQUIPMENT AND MATERIALS UNDER CONTRACTORS SCOPE OF SUPPLY. OWNER APPROVAL IS REQUIRED PRIOR TO PROCUREMENT.
- ALL ELECTRICAL MATERIAL AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED AND SHALL BEAR THE UL LABEL.
- ALL WORK SHALL COMPLY WITH THE 2008<sup>th</sup> EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
- CONDUIT ROUTING SHOWN ON THE DRAWINGS IS SCHEMATIC. CONTRACTOR TO COORDINATE INSTALLATION WITH OTHER TRADES.
- CONTRACTOR SHALL FURNISH AND INSTALL PERMANENT BRADY HEAT SHRINK WIRE LABELS, WITH UNIQUE WIRE NUMBERS, FOR ALL WIRES INSTALLED UNDER THIS PROJECT.
- CONTRACTOR SHALL FURNISH AND INSTALL NEW TYPEWRITTEN PANEL SCHEDULES FOR ALL POWER PANELS AND PANELBOARDS AFFECTED BY THIS PROJECT.
- CONTRACTOR SHALL FURNISH AND INSTALL BLACK PHENOLIC NAMEPLATES ETCHED TO REVEAL 1/4" WHITE LETTERS FOR ALL ELECTRICAL EQUIPMENT INSTALLED, INCLUDING LOCAL DISCONNECTS. LOCAL DISCONNECT SHALL BE LABELED WITH EQUIPMENT NUMBER OF THE EQUIPMENT FED, AND SHALL INDICATE SOURCE OF SUPPLY.
- LIGHT SWITCHES SHALL BE MOUNTED AT 48" AFF.
- PROVIDE UL LISTED THROUGH PENETRATION FIRESTOP SYSTEM FOR FIRE RATED WALL PENETRATIONS.
- CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, OR EQUAL, SUPPORT BRACKETS AS REQUIRED FOR ALL DISCONNECTS SWITCHES, PANELS, ETC.
- CONTRACTOR SHALL COORDINATE LOCATION OF HOME LIGHT FIXTURES IN MECHANICAL SPACES TO AVOID MECHANICAL EQUIPMENT AND DUCTWORK.
- LABEL ALL DEVICES SUCH AS RECEPTACLE COVER PLATES, STARTERS, DISCONNECTS WITH PANEL AND CIRCUIT NUMBERS.
- CONDUIT TYPE SHALL BE AS FOLLOWS, UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS:  
RIGID GALVANIZED STEEL (RGS) - ALL ABOVE GROUND OUTDOOR CONDUIT, AND ALL INDOOR CONDUIT SUBJECT TO DAMAGE.  
ELECTRICAL METALLIC TUBING (EMT) - ALL ABOVE GROUND INDOOR CONDUIT NOT SUBJECT TO DAMAGE.  
LIQUID TIGHT FLEXIBLE METAL CONDUIT - AT FINAL TERMINATIONS TO EQUIPMENT SUBJECT TO VIBRATION OR WHERE PHYSICAL CONSTRAINTS REQUIRE.  
METAL CLAD CABLE (MCC) - ABOVE GROUND INDOOR NOT SUBJECT TO DAMAGE WITHIN EXISTING WALL CONSTRUCTION.
- WIRE TYPE SHALL BE STRANDED COPPER, INSULATION TYPE AS FOLLOWS UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.  
THHN/THWN - #6 AVG. AND SMALLER.  
RHH/RHW - #4 AVG. AND LARGER.

LIGHTING NOTES

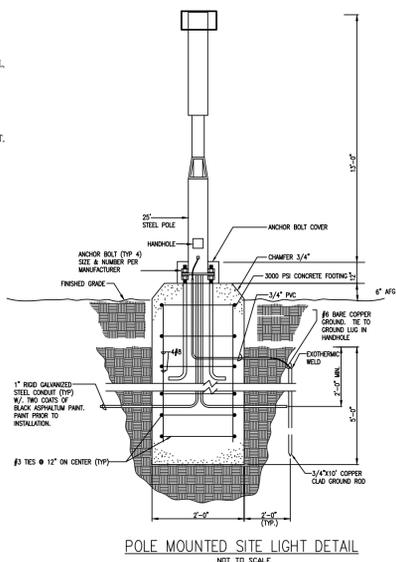
- LIGHTING TO BE OPERATED BY HAND SWITCH, EXCEPT FOR THOSE LIGHTS REQUIRED FOR SAFETY AND SECURITY.
- ALL SITE LIGHTING FIXTURES TO BE MOUNTED A MINIMUM OF 2'-0" FROM THE FACE OF CURB.
- ALL SITE ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- ALL WIRING AND CONDUIT REQUIRED TO PROVIDE ELECTRIC SERVICE TO PROPOSED FIXTURES SHALL BE INCLUDED IN LIGHTING BID. CONTRACTOR SHALL COORDINATE THE LAYOUT AND ELECTRICAL SERVICE TO THE PROPOSED FIXTURES WITH THE OWNER OR THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
- THESE CALCULATIONS WERE MADE USING ACCEPTED PROCEDURES OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA. VARIATIONS IN LAMP OUTPUT, BALLAST OUTPUT, LINE VOLTAGE, DIET DEGRADATION, AND OTHER FACTORS MAY AFFECT ACTUAL RESULTS UNLESS OTHERWISE STATED. ALL RESULTS ARE MAINTAINED VALUES. USING ACCEPTED LIGHT LOSS FACTORS (LLF).

CALCULATION SUMMARY						
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN MAX/MIN
REAR/SIDE	ILLUMINANCE	Fc	0.67	3.0	0.0	N.A. N.A.
PARKING	ILLUMINANCE	Fc	1.63	3.5	0.5	1.9 2.60
GARAGE	ILLUMINANCE	Fc	3.47	5.0	2.4	1.45 2.08
MAIN ENTRANCE	ILLUMINANCE	Fc	1.80	2.5	1.1	1.64 2.27

LIGHTING FIXTURE ISOFOOTCANDLE LEGEND

- CURVES REPRESENT THE MINIMUM FOOTCANDLE (FC) OF INITIAL ILLUMINATION ON A 10'-0" X 20'-0" PANEL.
- THE FC SHOWN ARE WITH THE FIXTURE ATTACHED TO THE LIGHT FIXTURE MOUNTING BRACKET PLACES THE CENTER OF THE SOURCE 4'-0" IN FRONT OF THE PANEL AND 1'-0" BELOW THE BOTTOM EDGE.

NOTE: POLES ARE TESTED TO MEET 120MPH WIND SPEED.



- SEE LIGHTING CONTROL SYSTEM WIRING DIAGRAM.
- SEE LIGHTING FIXTURE SCHEDULE PROVIDED BY THE LOWER CASE LETTERS FOR OCCUPANCY SENSORS AND SWITCHES MAY BE REPEATED IN OTHER AREAS OF THE FACILITY.
- COORDINATE WHICH LIGHTING CIRCUITS SHALL BE CONTROLLED THROUGH THE LIGHTING CONTROL PANEL.
- MIN. WIND SPEED OF THE LIGHT POLES IS 115MPH FOOTING IS DESIGNED BASED ON OVERTURNING FORCES FROM THE WIND LOADING.

H.I.D. AREA LIGHTING

AER SERIES-HID

SPECIFICATIONS

**HOUSING**  
Heavy cast low copper aluminum assembly (A356 alloy, <math>0.2\%</math> copper - AERM; A360 alloy, <math>0.4\%</math> copper - AER and AER-G) with integral cooling ribs above the electrical compartment. Minimum wall thickness is .185". Housing attaches to pole via a one piece, extruded aluminum arm with centering guides for internal draw bolts and a gasketed wiring access door. Housing/pole junction is gasketed. All exposed hardware is stainless steel. Internal protected hardware is electro-zinc plated.

**LENS ASSEMBLY**  
One piece cast aluminum lens frame (A356 alloy, <math>0.2\%</math> copper - AERM; A360 alloy, <math>0.4\%</math> copper - AER and AER-G) with integral stainless steel hinge. Tool-less twist to release latch provides positive locking and sealing of the optical chamber by a one piece silicone gasket with ends fused to form a continuous loop. Clear 3/16" thick tempered glass lens retained by stainless steel clips and sealed with self-leveling silicone bonding and sealing adhesive.

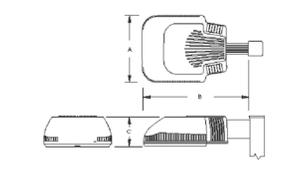
**REFLECTOR MODULE**  
Special Alcoa® optical segments rigidly mounted in an aluminum frame, which attaches to the housing as a one piece module. Reflector module is field rotatable in 90° increments. All sockets are porcelain 4KV pulse rated, pin-oriented mogul bases (5KV in 1000HPS models). Reflector modules are factory prewired with a quick-disconnect plug.

**ELECTRICAL COMPONENTS**  
All electrical components are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Electrical module attaches to housing with no-tool hinges and latches, accessible by opening the lens frame. Electronic MH ballasts have power factor of > .95 (70W - 150W) -20°F starting, 120-277V; or > .90 (250W - 400W) -20°F starting, 200-277V, 50Hz/60Hz; and have lamp End-of-life protection, 347V option utilizes a step down transformer to the electronic ballast. Special for Philips MasterColor CDM Blue; Electronic MH ballast has a power factor of > .90 (210W & 315W) -4°F starting, 200-277V, 50Hz/60Hz; and has lamp End-of-life protection. All high wattage (315W - 400W) electronic MH ballasts have 0 - 10V dimming capability. Magnetic MH ballasts are high power factor (> .90 (150W, 375W) or CWA (250W - 1000W, excluding 575W) -20°F starting, multi-tap 120-277V or 480V, 60Hz. All HPS ballasts are core and coil, high-efficiency, high power factor (70W - 150W) or CWA (200W - 100W) -4°F starting.

**FINISH**  
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

Light Pollution Control Classification System Full cutoff 0% light luminance  
U.S. Architectural Lighting  
2014218  
U.S. ARCHITECTURAL LIGHTING

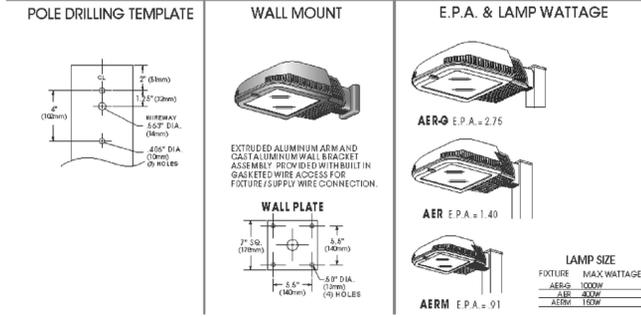
PROJECT NAME:  
FIXTURE TYPE:



FIXTURE	A	B	C
AER-G	22"	41"	12"
AER	546mm	1048mm	305mm
AER	18"	29"	8"
AER	463mm	737mm	203mm
AERM	13.5"	25"	6.5"
AERM	343mm	635mm	166mm

AER SERIES - HID

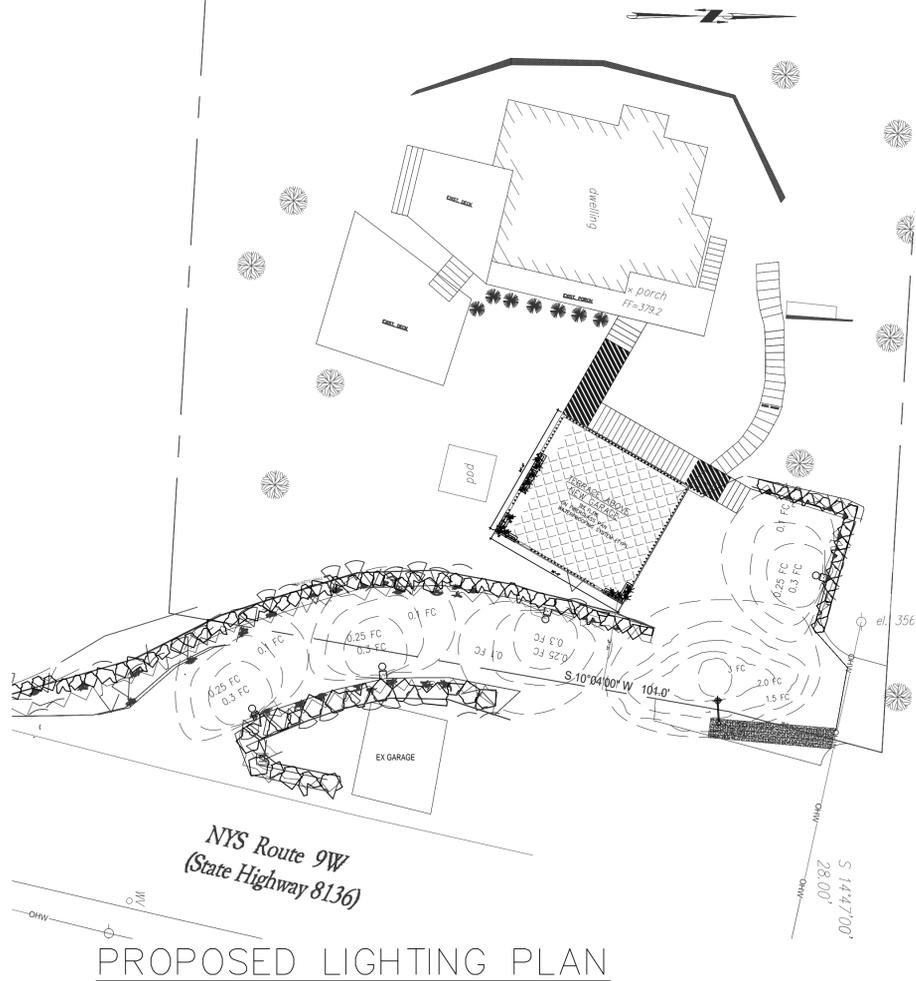
SPECIFICATIONS



AER SERIES - HID

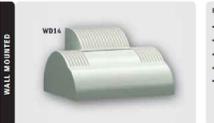
SPEC/ORDERING INFORMATION

MODEL	OPTICS	WATTAGE	TYPE	VOLTAGE	MOUNTING	FINISH	OPTIONS
<input type="checkbox"/> AER	<input type="checkbox"/> TYPE II HR-II <input type="checkbox"/> TYPE III HR-III <input type="checkbox"/> TYPE IV FORWARD THROW HR-IV <input type="checkbox"/> TYPE V REFLECTOR HR-FT-HSC <input type="checkbox"/> TYPE V HR-V-SQ	<input type="checkbox"/> 400 <input type="checkbox"/> 350 <input type="checkbox"/> 320 <input type="checkbox"/> 260 <input type="checkbox"/> 277 <input type="checkbox"/> 347 <input type="checkbox"/> 480	<input type="checkbox"/> PMH <input type="checkbox"/> HPS <input type="checkbox"/> PG218 Base	<input type="checkbox"/> 120 <input type="checkbox"/> 208 <input type="checkbox"/> 240 <input type="checkbox"/> 277	<input type="checkbox"/> ARM MOUNT <input type="checkbox"/> 2-180 <input type="checkbox"/> 2-90 <input type="checkbox"/> 3-90 <input type="checkbox"/> 4-90 <input type="checkbox"/> 3-120 <input type="checkbox"/> WALL MOUNT <input type="checkbox"/> WM <input type="checkbox"/> ADJUSTABLE ANKLE <input type="checkbox"/> NKL25 <input type="checkbox"/> NKL27	<input type="checkbox"/> STANDARD TEXTURED FINISH RAL-9005-F <input type="checkbox"/> WHITE RAL-9003-F <input type="checkbox"/> GREY RAL-7004-F <input type="checkbox"/> DARK BRONZE RAL-8017-F <input type="checkbox"/> GREEN RAL-6005-F	<input type="checkbox"/> INTERNAL HOUSE SHIELD... HHS <input type="checkbox"/> EXTERNAL HOUSE SHIELD... EHS <input type="checkbox"/> PHOTO-CELL VOLTAGE (EXAMPLE: FC120V)... PC-V <input type="checkbox"/> TWIN LOCK PHOTO-CELL VOLTAGE (EXAMPLE FC120V)... TPC-V <input type="checkbox"/> TWIN LOCK RECEPTACLE ONLY... TPR <input type="checkbox"/> SINGLE RISE (20V, 277V)... SR <input type="checkbox"/> DOUBLE RISE (20V, 240V)... DR <input type="checkbox"/> CAST ALUMINUM ARM... CA (USED IN LIEU OF STANDARD ARM) <input type="checkbox"/> FOR SMOOTH FINISH REFACE SURF. "T" WITH SURF. "T" (EXAMPLE: RAL-9005) <input type="checkbox"/> SEPARATE COLOR FOR ADDITIONAL COLOR <input type="checkbox"/> AVAILABLE IN THE FOLLOWING AREA MOUNT CONFIGURATIONS: 1. 5' HIG. 3" DIA. 48" ARM, 3-120 (EXAMPLE: SLV-360)



Wall Director

WD14 Wall Director Small



- FEATURES**
- Small scale uplight and downlight luminance for architectural accent lighting, up to 150 watts.
  - Pole start metal halide, high pressure sodium, induction, or compact fluorescent sources.
  - Dark-Sky compliant, full cut-off luminance (beam position only).
  - High SDC, reflector reflecting for optimal performance.
  - LED models incorporating patent pending LED MicroEmitter technology. Contact factory for configurations and availability.

ORDERING INFORMATION (Example)

FIXTURE	FIXTURE FINISH	FIXTURE OPTIONS
WD14A 1P Type II	BL Black	A-30 320 Watt photo-cathode NPS Neophar Triangular Beam
WD14B 1P Type III	DB Dark Bronze	A-31 320 Watt photo-cathode NPS Neophar Triangular Beam
WD14C 1P Type III	LG Light Gray	A-32 320 Watt photo-cathode NPS Neophar Triangular Beam
WD14D 1P Type IV	SG Smooth Gray	A-33 377 Watt photo-cathode LS Polyphosphor
WD14E 1P WALL GUARD	PS Platinum Silver	A-34 480 Watt photo-cathode NPS Neophar Triangular Beam
WD14F 1P SPOT	WH White	A-35 347 Watt photo-cathode W614 Wire Guard
WD14G 1P Type II	CC Custom Color	G12 Base Socket
WD14H 1P Type III		G5 Base Socket
WD14I 1P Type IV		G13 Base Socket
WD14J 1P WALL GUARD		HSC Incandescent photo-cathode SCM140 Surface Conductor for Ball Lamps
WD14K 1P SPOT		HSC Incandescent photo-cathode SCM140 Surface Conductor for Base Mounted

**ELECTRICAL MODULE**

SPOT/ARM	5000 PPM	200PS 1000 PPM	47FL 430 FL1	550 1500 151
700MP	700 PPM	1000 PPM	1000 PPM	57FL 570 FL11
1000MP	1000 PPM	1500 PPM	1500 PPM	
1500MP	1500 PPM			

**Dimensions**

Height	120 120W				
200	200	200	200	200	200
240	240	240	240	240	240
277	277	277	277	277	277
347	347	347	347	347	347
480	480	480	480	480	480

**Notes:**

- Available in 15' beam configurations in parallel with various optical systems.
- Remote fixture each and best suitable option available for 17W CR Lamp.
- Lamp with medium base lamp sockets may require mounting by the local building code authority.
- Installation of metal halide lamps requires increased mounting clearance over the fixture.
- Conductance operation on the side of all ball lamps at 2000 PPM. See manufacturer's specs for color temperature.
- 5000 PPM voltage 120, 200, 240, 277 and 347 volts.
- 1000 PPM voltage 120, 200, 240, and 277 volts.
- CR Lamp available for 200 and 1000 PPM lamps only.
- Not for use with Wall Guard.
- For beam fixture, the only when variation is indicated to be high output. Use limited by UV Distribution from manufacturer.
- Must be licensed by all states.
- Product is UL listed and meets all requirements as of 2010 and 2010 Canadian code.
- © 2010 U.S. Architectural Lighting.
- © 2010 U.S. Architectural Lighting.

KIM LIGHTING



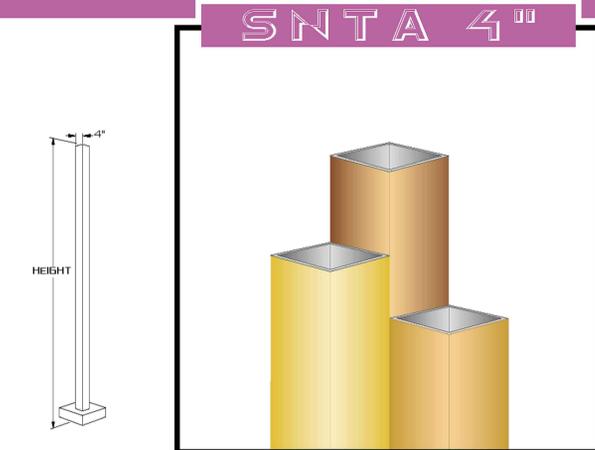
LUMINAIRE SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CATALOG	QTY	DISTRIBUTION	MOUNT HT.
1	MOGRAW EDISON	GLEON	GALEON LED	2	TYPE 3	20'-0"
2	LUMARK	CROSSOUR	XTOR6B-W-BZ-MSDIM-L20-CBP	2	TYPE 3	12'-0"

LIGHTING NOTES

\*ATM LIGHTING PLAN LUMINANCE LEVELS CALCULATED AT 5' ABOVE GRADE IN ACCORDANCE WITH §76-6 OF THE NEW YORK STATE ATM SAFETY ACT REGULATIONS. ALL PROPOSED FIXTURES ON TIMER TO OPERATE DURING NIGHT TIME HOURS, 30 MINUTES AFTER SUNSET AND 30 MINUTES BEFORE SUNRISE. CONTRACTOR TO INSTALL FIXTURES ON COOPER LIGHTING POLE RSS-6-A-XX-S-Y-N-XX. MOUNT HEIGHTS ARE BASED ON HEIGHT ABOVE FINISHED ASPHALT GRADE.

ALL LIGHTS TO BE DARK SKY COMPLIANT AND POINTED DOWNWARD.



4" SQUARE STRAIGHT ALUMINUM

SPECIFICATIONS

**SHAFT:** 4" SQUARE, EXTRUDED FROM 6063 ALLOY ALUMINUM TUBING, HEAT TREATED TO PRODUCE A T6 TEMPER. SHAFT INCLUDES A PERIPHERALLY REINFORCED HAND HOLE FURNISHED WITH COVER. SHAFT IS FURNISHED WITH GROUND LUG LOCATED ON CAST ALUMINUM BASE PLATE.

**BASE PLATE:** CAST ALUMINUM CONSTRUCTED OF A-358 ALUMINUM ALLOY HEAT TREATED TO PRODUCE A T6 TEMPER. STRUCTURALLY ENGINEERED BASE INCLUDES EIGHT HEAVY WALL REINFORCING VERTICAL SUBSETS, BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO SHAFT AT BOTH THE OUTSIDE TOP AND INSIDE BOTTOM OF THE BASE.

**ANCHORAGE:** (4) ANCHOR BOLTS FABRICATED FROM HOT ROLLED STEEL BAR, MINIMUM YIELD STRENGTH OF 50,000 P.S.I. BOLTS HAVE "L" BEND ON ONE END AND ARE THREADED ON THE OTHER END. BOLTS ARE FULLY GALVANIZED AND ARE FURNISHED WITH TWO NUTS AND TWO WASHERS.

**BASE COVER:** FABRICATED FROM HEAVY WALL ALUMINUM CONSTRUCTION. TWO PIECE COVER ENTIRELY CONCEALS BASE.

**FINISH:** POLYESTER POWDER COAT-STATE OF THE ART 20 PSI PRESSURE POWER WASH AT 140° TEMPERATURE INCORPORATES FOUR STEP IRON PHOSPHATE PROCESS TO CLEANSE AND PRETREAT THE METAL SURFACE FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED TEXTURED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

SNTA SERIES

ENGINEERING DATA

Maximum EPA - Square Feet

Catalog Number	Maximum Fixt. Wgt.	100 MPH	90 MPH	80 MPH	70 MPH
SNTA 84-125	100	12.2	15.7	20.5	27.4
SNTA 104-125	100	8.2	11.1	14.6	20.0
SNTA 124-125	100	5.4	7.5	10.5	14.9
SNTA 144-125	100	3.3	5.0	7.5	11.2
SNTA 164-125	100	1.8	3.2	5.2	8.2
SNTA 164-188	200	4.4	6.6	9.4	13.7
SNTA 184-125	100	N/A	1.7	3.5	6.2
SNTA 184-188	125	2.9	4.7	7.1	11.0
SNTA 204-188	125	1.4	2.9	5.1	8.3

All above design calculations are based on sustained wind forces plus additional 13 wind gusts (Example: Pole rated at 80 MPH withstands 104 MPH gusts)

ORDERING INFORMATION

MODEL	POLES	MOUNTING	FINISH	OPTIONS
SNTA	<input type="checkbox"/> 84-125 8' 125 10X" 3/4"x18"x3" <input type="checkbox"/> 104-125 10' 125 10X" 3/4"x18"x3" <input type="checkbox"/> 124-125 12' 125 10X" 3/4"x18"x3" <input type="checkbox"/> 144-125 14' 125 10X" 3/4"x18"x3" <input type="checkbox"/> 164-125 16' 125 10X" 3/4"x18"x3" <input checked="" type="checkbox"/> 164-188 16' 188 10X" 3/4"x24"x3" <input type="checkbox"/> 184-125 16' 125 10X" 3/4"x24"x3" <input type="checkbox"/> 184-188 16' 188 10X" 3/4"x24"x3" <input type="checkbox"/> 204-188 20' 188 10X" 3/4"x24"x3"	<input type="checkbox"/> 3/8"x4" TENON PT23 <input type="checkbox"/> 7/8"x4" TENON PT27 <input type="checkbox"/> OTHER TENON MT  <input type="checkbox"/> DRILL MOUNT <input type="checkbox"/> 3-80 <input type="checkbox"/> 3-180 <input type="checkbox"/> 3-120  3-120 REQUIRES PT27 AND 3120 ADAPTER	<input type="checkbox"/> STANDARD SMOOTH FINISH <input type="checkbox"/> BLACK RAL-9005-S <input type="checkbox"/> WHITE RAL-9003-S <input type="checkbox"/> GREY RAL-7004-S <input type="checkbox"/> DARK BRONZE RAL-8017-S <input type="checkbox"/> GREEN RAL-6005-S <input type="checkbox"/> ANODIZED <input type="checkbox"/> NATURAL ANODIZED <input type="checkbox"/> BLACK ANODIZED <input type="checkbox"/> HAZ THRU TRANSPARENT ANODIZED <input type="checkbox"/> CONTOUR FACTORY COLORE	<input type="checkbox"/> DUPLEX RECEPTACLE <input type="checkbox"/> GFI RECEPTACLE <input type="checkbox"/> GFI <input type="checkbox"/> 3 WAY ADAPTER T3120  <input type="checkbox"/> 1/2" COUPLING CPLN1/2 <input type="checkbox"/> 3/4" COUPLING CPLN3/4 <input type="checkbox"/> 2" COUPLING CPLN2 (SPECIFY COUPLING LOCATION)  SEE ACCESSORIES SECTION FOR OTHER OPTIONS

**OEA**  
OPTIMIZED ENGINEERING ASSOCIATES  
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E-mail: guy@oea-corp.com  
Web: www.oea-corp.com

DOB NOW JOB #

NO.	DATE	DESCRIPTION	APPROV.

REVISIONS:

PROJECT LOCATION: 918 NYS ROUTE 9W NYACK, NY

PROJECT DESCRIPTION: LIGHTING PLAN FOR NEW GARAGE

SCALE: 1" = 15'

DATE: JUNE 2025

SHEET 2 OF 4

STATE OF NEW YORK  
GUY LACOMARINO, P.E.  
REGISTERED PROFESSIONAL ENGINEER  
LICENSE NO. (NY): 073696

DR: GUY LACOMARINO, P.E.  
CK: GUY LACOMARINO, P.E.  
PROFESSIONAL ENGINEER  
LICENSE NO. (NY): 073696

SCALE: 1" = 15'

DATE: JUNE 2025

SHEET 2 OF 4



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 UNION CITY, NJ 07087  
 201-430-9173  
 201-866-0913 (FAX)  
 E-mail: guy@oea-corp.com  
 Web: www.oea-corp.com

ORIGINAL SURVEY CONDUCTED BY:  
 CARNEY RHINEVAULT  
 DATED: 8/25/2024

### UTILITY NOTES

ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.  
 LOCATIONS OF UTILITIES WITHIN BUILDING SHOWN HERE ARE SCHEMATIC. ACTUAL LOCATIONS TO BE DETERMINED BY UTILITY CO. AND ARCHITECT.  
 REFER TO ANY PLUMBING PLANS FOR LOCATION OF DOWNSPOUTS, SANITARY LATERALS & UTILITY SERVICE ENTRANCES.  
 EX UTILITY & SEWER RISERS IN PARKING AREA ARE TO BE PROTECTED FROM IMPACT. CONTACT UTILITIES TO DETERMINE EXACT LOCATION OF CONNECTION AND WHERE PRACTICAL, IF EXISTING CONNECTIONS ARE TO BE MAINTAINED.  
 INTERIOR ROOF DRAINAGE LINES TO BE SIZED AND ROUTED TO DETENTION BASIN BY BUILDING. SEE ARCHITECTURAL PLANS.  
 ALL EXISTING UTILITIES FOR HOUSE WILL NOT CHANGE

### OPERATIONAL & MAINTENANCE PLAN

- i. MAINTENANCE RECORDS MUST BE KEPT ON-SITE FOR A PERIOD OF THREE YEARS BY THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AUTHORITY WITHIN 72 HOURS UPON THE AUTHORITY'S REQUEST TO REVIEW THESE RECORDS.
- ii. THE AUTHORITY RESERVES THE RIGHT TO INSPECT ALL STORMWATER MANAGEMENT SYSTEMS. THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM SHALL PROVIDE ACCESS FOR INSPECTION TO THE AUTHORITY WITHIN 72 HOURS OF THE AUTHORITY'S REQUEST TO INSPECT THE STORMWATER MANAGEMENT SYSTEMS.
- iii. FAILURE TO MAINTAIN ADEQUATE MAINTENANCE RECORDS, PERFORM MAINTENANCE, AND/OR DENY THE AUTHORITY ACCESS TO MAINTENANCE RECORDS OR INSPECTION WITHOUT CAUSE IS SUBJECT TO FINES BY THE AUTHORITY AS DETAILED IN THE SEWER CONNECTION: APPLICATION PROCEDURES AND FEE SCHEDULE DOCUMENT.

NOTE: REFER TO ARCHITECTURAL PLANS FOR OTHER WORK SCOPE, THIS PLAN IS LIMITED TO DRAINAGE DESIGN.

### DESIGN NOTES

DESIGN METHOD BASED ON NJ RSI STANDARDS:

#### CALCULATIONS

TOTAL SITE AREA: 43,538 SF

IMPERVIOUS  
 BUILDING: 1085.7 SF  
 ASPHALT DRIVEWAY: 1573.73 SF  
 NEW GARAGE AREA: 624 SF

TOTAL INCREASED IMPERVIOUS AREA: 624 SF

WATER QUALITY: DETAIN A 2" OF RAINFALL IN TWO HRS WITHOUT DISCHARGING FROM THE TANK'S OVERFLOW FOR A 10YR EVENT. SECOND CONTAIN A 100% REDUCTION IN DISCHARGE FROM SITE FOR A 2 YR. & 80% REDUCTION FOR 100 YEAR STORM EVENT AS PER NJDEP REGULATIONS FOR PRE-DEVELOPED TO POST DEVELOPED CONSTRUCTION. DESIGN METHODOLOGY: MODIFIED RATIONAL METHOD  
 SEE REPORT + CALCULATIONS

PROPOSED AREA OF SITE BUILDING IMPERVIOUS: 624 SF C=0.98. NEW CONDITIONS WILL INCLUDE A SITE DRAINAGE SYSTEM TO HANDLE THE REQUIRED STORAGE ON SITE. A GREATER THAN 2YR STORM EVENT. PROPOSED CONDITIONS WILL ACCOUNT FOR A SEEPAGE PIT WITH 1 FT GRAVEL PERIMETER AND 1'-6" GRAVEL 2H DIA BASE SYSTEM WITH OVERFLOW AT TOP OF TANK TO REAR YARD. THE WATER WILL INFILTRATE SOIL SLOWLY. RELEASE OF WATER. 338 CF OF STORAGE

BASED ON EXISTING SITE CONDITIONS, ONLY THE INCREASE IN GARAGE SHALL BE DISTURBANCE AS SHOWN ON PLANS. NO IMPACT TO THE SOIL OR GRADE WITHIN 5FT FROM THE GARAGE.

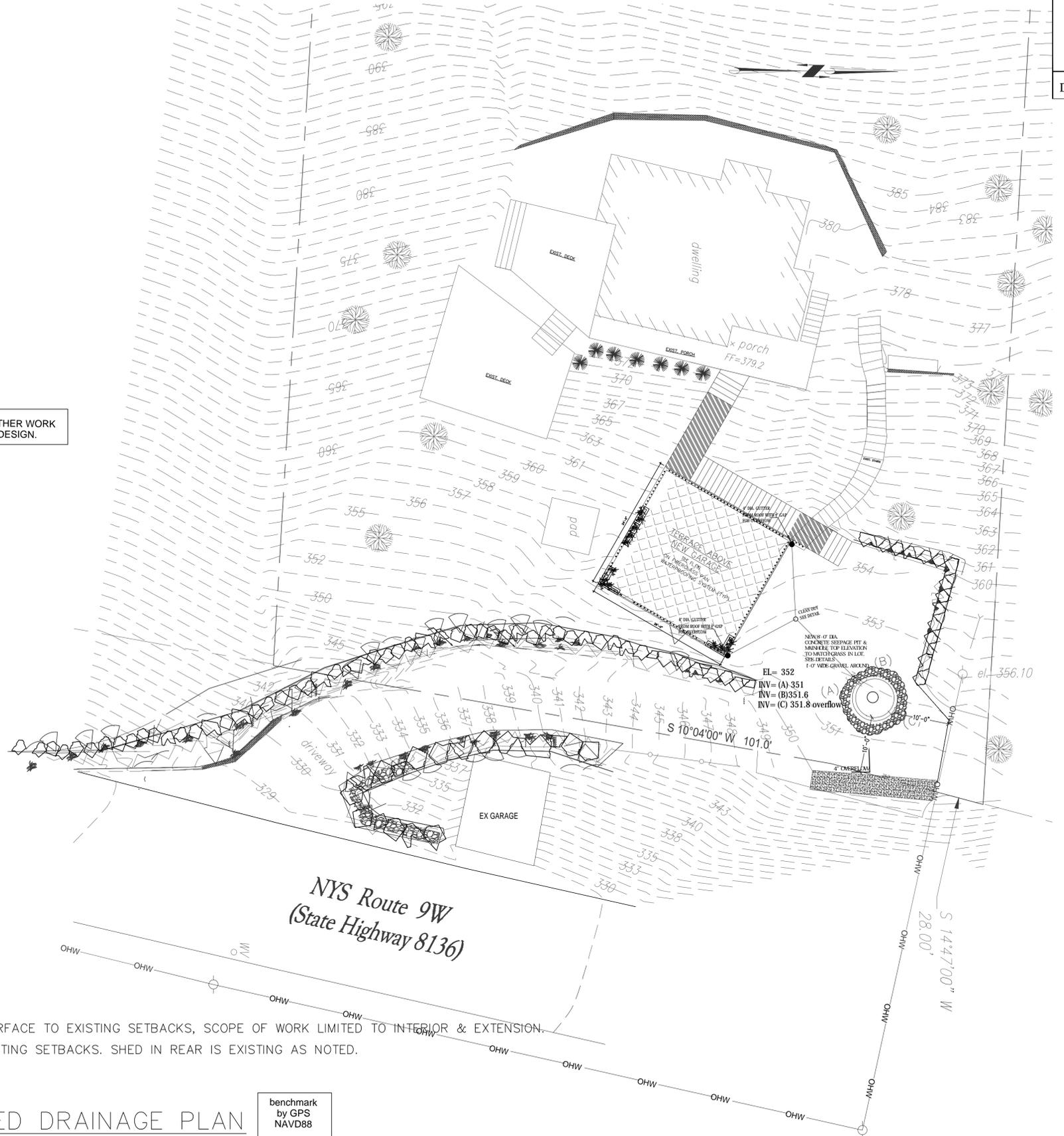
#### SOIL NOTES:

- 1) PROPOSED LIMIT OF DISTURBANCE WILL NOT EXCEED 5,000 S.F.
- 2) APPLICANT SHALL PROVIDED THE SEASONAL HIGH-WATER TABLE AND SOIL PERMEABILITY TESTING RESULTS FOR REVIEW AND APPROVAL PRIOR TO CHAMBER INSTALLATION.
- 3) INSPECTION OF THE PROPOSED CHAMBERS SHALL BE SCHEDULED AT LEAST 72 HOURS IN ADVANCE OF WORK.
- 4) GRADING WITHIN LIMITS OF DISTURBANCE SHALL BE ADDRESSED AND SHALL NOT POSE IMPACTS TO ADJACENT PROPERTIES.
- 5) SHOULD ANY EXCAVATED SOIL BE SUSPECTED OF BEING IMPACTED OR CONTAMINATED, THE APPLICANT SHALL NOTIFY THE NJDEP AND THE NEW MILFORD BUILDING DEPARTMENT IMMEDIATELY.
- 6) ALL DISTURBED AREAS SHALL BE TOP SOILED AND SEEDED FOLLOWING COMPLETION OF CONSTRUCTION.

ZONING NOTE: REDUCTION IN IMPERVIOUS SURFACE TO EXISTING SETBACKS, SCOPE OF WORK LIMITED TO INTERIOR & EXTENSION. THESE ITEMS DO NOT IMPACT EXISTING SETBACKS. SHED IN REAR IS EXISTING AS NOTED.

## PROPOSED DRAINAGE PLAN

benchmark  
 by GPS  
 NAVD88



DOB NOW JOB #

REVISONS:	NO.	DATE	DESCRIPTION	APPRD.

PROJECT LOCATION:  
 918 NYS ROUTE 9W  
 NYACK, NY

PROJECT DESCRIPTION:  
 DRAINAGE PLAN  
 FOR NEW GARAGE



DR. GUY LACOMARSINO, P.E.  
 PROJECT MANAGER  
 LICENSE NO. (NY): 073596

SCALE:  
 1" = 20'  
 DATE:  
 JUNE 2025

**RETENTION SYSTEM LIMITATION NOTES:**

- THIS SYSTEM DESIGN IS BASED ON THE SOIL IS PERMEABILITY WITH A PERCOLATION RATE OF 2" PER 1 HOUR OF WATER DROP. BASED ON THIS RESULT THE STORM WATER WILL SEEP INTO THE GROUND WITHIN A MAXIMUM PERIOD OF 72 HOURS AFTER THE STORM HAS ENDED. THE FOLLOWING SHALL BE VERIFIED BEFORE INSTALLATION IS STARTED:
  - A SOIL LOG OF SUBSURFACE CONDITIONS TO INSURE GROUNDWATER ELEVATION (IF ENCOUNTERED)
  - RE VERIFY THE ORIGINAL PERMEABILITY TEST AND EVALUATION OF SOIL BEFORE INSTALLATION.
- THE PROPER PLACEMENT OF THE RETENTION SYSTEM AND DRAINAGE DESIGN IS SUBJECT TO ACTUAL SOIL CONDITIONS. SYSTEM DESIGN WHICH SITE CONDITIONS MAY MOVE OR SHIFT LOCATION DUE TO UNFORSEEN CIRCUMSTANCES. IF LOCATION NEED TO BE REVISED UPDATED PERMEABILITY TEST RESULTS IS WARRENTED. PERC TEST MUST BE COMPLETED.
- INDIVIDUAL PROPERTY OWNERS SHALL BE RESPONSIBLE FOR PERFORMING MAINTENANCE ON THE RETENTION SYSTEM LOCATED WITHIN THEIR PROPERTY. THE SYSTEM SHALL BE INSPECTED AND CLEANED IF NECESSARY AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. IF SIGNIFICANT INCREASE IN THE NORMAL DRAIN TIME IS OBSERVED, OR IF THE DRAIN TIME EXCEEDS 72 HOURS, APROPRIATE MEASURES MUST BE TAKEN. THE LANDOWNER AT HIS OWN EXPENSE SHALL COMPLY WITH THE MAXIMUM DRAIN TIME REQUIREMENTS AND MAINTAIN THE PROPER FUNCTIONING OF THE SYSTEM.

**RETENTION CERTIFICATION/SYSTEM INSTALLATION:**

- THE RETENTION SYSTEM SHALL BE INSTALLED UNDER THE DIRECTION OF THE DESIGN ENGINEER AND THE FOLLOWING INSPECTIONS WILL BE REQUIRED. THE ACTUAL TIMING AND NUMBER OF INSPECTION SHOULD BE VERIFIED WITH THE PROJECT ENGINEER BEFORE WORK COMMENCES.
  - SOIL LOG INSPECTION AND PERMEABILITY TEST RESULTS
  - THE LIMIT AND DEPTH OF EXCAVATION SHALL BE DETERMINED BY THE PROJECT ENGINEER
  - BOTTOM OF EXCAVATION BEFORE ANY PART OF THE SYSTEM IS INSTALLED.
  - AFTER SYSTEM AND PIPE INSTALLATION BUT BEFORE THE STRUCTURE, PIPE, AND CONNECTIONS ARE COVERED BY STONE AND FABRIC.
  - CERTIFICATION OF THE RETENTION SYSTEM WILL NOT BE PROVIDED UNLESS ALL
- INSPECTIONS HAVE BEEN COMPLETED. ALL OF THE CERTIFICATIONS AND TEST RESULTS DULY SEALED BY AN NJ PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE CITY ENGINEER OF HARRINGTON PARK MUST BE NOTIFIED IN ORDER TO APPROVE CONSTRUCTION OF THE SYSTEM.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMWATER RUNOFF DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEERS SPECIFICATIONS.
- THE PRECAST COMPONENTS WILL BE DELIVERED TO THE PROJECT SITE VIA A FLATBED TRANSPORT. THE CONTRACTOR SHALL PROVIDE EQUIPMENT AT THE SITE THAT HAS ADEQUATE LIFTING CAPACITY TO UNLOAD THE PRECAST COMPONENTS. RISER (SEPARATION CHAMBER) SECTIONS; MANHOLE CAP WITH THE APPROPRIATE TRAFFIC COVER (TO BE PLACED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS); AND, IF NECESSARY, GRADE RINGS AND/OR GROUT TO MATCH GRADE.
- THE PRECAST COMPONENTS ARE DELIVERED WITH LIFTING POINTS CAST INTO THE VARIOUS PIECES. WHERE CAVITIES WERE CREATED FOR LIFTING, SAID CAVITIES SHALL BE MORTAR PACKED AND FINISHED TO CONFORM TO THE SURFACE THAT WOULD HAVE OTHERWISE EXISTED HAD NOT THE LIFTING POINT BEEN CAST. WHERE PROTRUDING REBAR OR FABRICATED CABLE LOPDS HAVE BEEN USED TO PROVIDE FOR LIFTING, THOSE PROTRUDING REBAR OR FABRICATED CABLE LOPDS SHALL BE CUT FLUSH WITH THE NORMAL FINISHED SURFACE. ALL WORK THROUGHOUT THE INSTALLATION SHALL BE DONE TO A PROFESSIONAL STANDARD NORMALLY EXPECTED FOR THE CLASS OF WORK BEING PERFORMED.
- THE CONTRACTOR SHALL EXCAVATE, IN ACCORDANCE WITH THE APPLICABLE PROJECT SPECIFICATIONS FOR "EXCAVATION AND BACK-FILL", AS PROVIDED BY THE ENGINEER TO ENSURE A SAFE WORKING ENVIRONMENT.

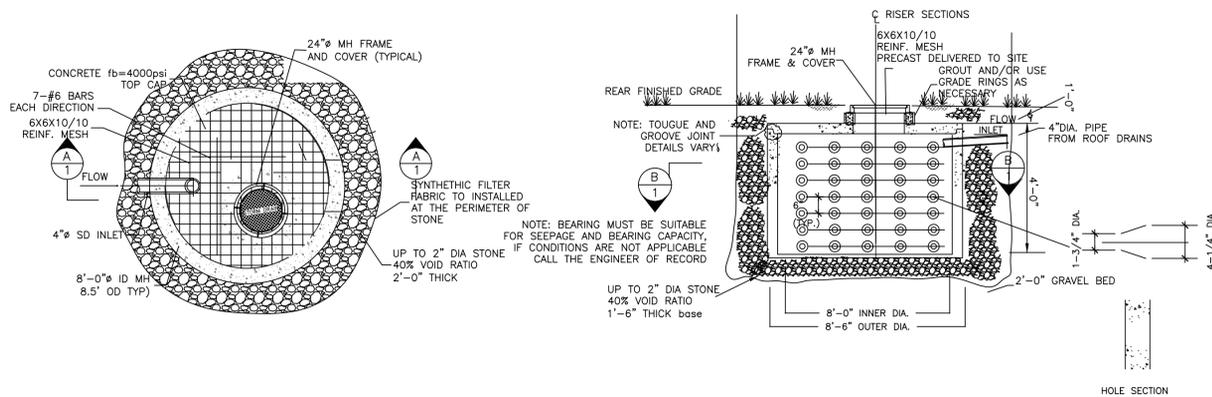
**4. ACCESS RISER INSTALLATION**  
 PRIOR TO PLACEMENT OF ADDITIONAL RISER SECTIONS, THE CONTRACTOR SHALL PLACE A LAYER OF MASTIC ROPE OR RUBBER GASKET ON THE TONGUE JOINT OF THE SEPARATION CHAMBER AND SUBSEQUENT RISER SECTIONS IN THE MANNER DESCRIBED PREVIOUSLY. AT THIS POINT, THE CONTRACTOR MAY ELECT TO BACKFILL IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION, OR THE CONTRACTOR MAY ELECT TO CONTINUE WITH THE INSTALLATION OF THE TOP CAP. AS THE CONTRACTOR DEEMS APPROPRIATE, THE BACKFILL MATERIAL AROUND THE SEPARATION CHAMBER AND THE BARREL SECTIONS SHALL BE PLACED AND COMPACTED ACHIEVING A MINIMUM COMPACTION OF 90% WHEN TESTED BY ASTM DESIGNATION A1557. BACKFILL MATERIAL MAY BE A "MINIMAL COMPACTION EFFORT" MATERIAL SUCH AS 3/8" PEA GRAVEL OR CLEAN FILL SAND. THE CONTRACTOR MAY USE NATIVE MATERIAL IF APPROVED BY THE ENGINEER IF SAID MATERIAL PROVIDES AN ALLOWABLE BEARING PRESSURE OF 2,000 POUNDS PER SQUARE FOOT. SAID NATIVE MATERIAL SHALL BE COMPACTED TO A MINIMUM RELATIVE DENSITY OF 90% WHEN TESTED BY ASTM DESIGNATION A1557.

**5. MANHOLE TOP SLAB INSTALLATION**  
 UPON INSTALLATION OF THE BARREL SECTIONS, THE CONCRETE MANHOLE CAP IS INSTALLED. MASTIC ROPE OR RUBBER GASKET IS PLACED ON THE TONGUE AND GROOVE JOINT AS DESCRIBED PREVIOUSLY. THE TOP CAP IS ORIENTED IN A FASHION SIMILAR TO THE SEPARATION SLAB WITH THE CLEAR OPENING AS CENTERED AS POSSIBLE OVER THE SEPARATION CYLINDER/SCREEN ASSEMBLY AND SUMP OPENING UNLESS INDICATED OTHERWISE IN THE UNIT DRAWINGS. USE GROUT AND MANHOLE RINGS AS NECESSARY TO MATCH FINAL GRADE AND INSTALL THE PROVIDED MANHOLE FRAME AND COVER AS SHOWN IN THE DRAWINGS.

**6. STORM DRAIN CONNECTION**  
 SEAL STORM DRAIN INLET AND OUTLET PIPES TO CDS UNIT USING FLEXIBLE GASKETS OR GROUT-FILL MANHOLE OPENINGS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

**7. BACKFILL**  
 UPON COMPLETION OF THE CDS UNIT INSTALLATION, THE EXCAVATION SHALL BE BACKFILLED WITH AN AGGREGATE BASE MATERIAL, PEA GRAVEL, OR CONTROLLED DENSITY CEMENT BACKFILL. THE AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% COMPACTION OR AS SPECIFIED BY THE ENGINEER WHEN TESTED BY ASTM DESIGNATION A1557, UNLESS THE CDS UNIT IS TO RECEIVE TRAFFIC LOADINGS WHEREBY THE FOLLOWING CONDITIONS SHALL APPLY: FOR CDS UNITS INSTALLED IN A TRAVEL WAY, THE UPPER TWO FEET OF BACKFILL SHALL BE AGGREGATE BASE COMPACTED TO 95% (MINIMUM).

**8. SITE CLEANUP**  
 CONTRACTOR SHALL REMOVE ALL MATERIAL AND DEBRIS FROM THE INLET, SEPARATION CHAMBER AND SUMP UPON COMPLETION OF INSTALLATION.



PLAN VIEW OF SEEPAGE PIT

SCALE: nts

**CONCRETE 8'-0" DIA SEEPAGE PIT**

SECTION A-A ELEVATION VIEW

SCALE: 1/4" = 1'-0"

**SUGGESTED SEEDING MIXTURES**

**TEMPORARY SEEDING**

LIME: 2 TONS/ACRE GROUND LIMESTONE  
 FERTILIZER: 500 LBS. PER ACRE 10-20-10  
 SEED: DATE & RATE OF APPLICATION ACCORDING TO STANDARDS FOR SOIL EROSION AND SEDIMENTATION CONTROL IN NEW JERSEY.  
 TEMPORARY SEEDING TO BE NOT LESS THAN ONE POUND OF PERENNIAL RYEGRASS PER 1000 SQ. FT.

**PERMANENT SEEDING (STEEP BANKS)**

LIME: 3 TONS/ACRE GROUND LIMESTONE  
 FERTILIZER: 600 LBS. PER ACRE 10-20-10  
 SEED: MIX 10 - OPTIMAL DATES 3/1-4/30 AND 8/15-11/15 ACCEPTABLE DATES 5/1-8/14  
 SEED: 20 LBS/AC OF TALL FESCUE OR STRONG CRP RED FESCUE OR PERENNIAL RYEGRASS 25 LBS/AC CROWNVECH OR FLATPEA  
 THIS IS A GENERAL RECOMMENDATION. OTHER SEEDINGS CAN BE USED (MIX 2,3,7,9,11,12,17 & 20).

**PERMANENT SEEDING (ROAD R.O.W. AND NON-LAWN AREAS)**

LIME: 3 TONS/ACRE GROUND LIMESTONE INCORPORATED 6 INCHES INTO THE SOIL.  
 FERTILIZER: 600 LBS. PER ACRE 10-20-10 INCORPORATED 6 INCHES INTO THE SOIL.  
 400 LBS./ACRE 10-10-10 INCORPORATED 2 INCHES INTO THE SOIL AT LAST RAKING  
 SEED: MIX 17 - OPTIMAL DATES 3/1-4/30 AND 8/15-11/15 ACCEPTABLE DATES 5/1-8/14  
 120 LBS/AC HARD FESCUE, 30 LBS/AC CREEPING FESCUE, 10 LBS/AC PERENNIAL RYEGRASS  
 THIS IS A GENERAL RECOMMENDATION. OTHER SEEDINGS CAN BE USED (MIX 12,14,15 & 16).

**PERMANENT SEEDING (LAWN AREAS) WHEN SOD NOT USED**

LIME: 3 TONS/ACRE GROUND LIMESTONE INCORPORATED 6 INCHES INTO THE SOIL.  
 FERTILIZER: 600 LBS. PER ACRE 10-20-10 INCORPORATED 6 INCHES INTO THE SOIL.  
 400 LBS./ACRE 10-10-10 INCORPORATED 2 INCHES INTO THE SOIL AT LAST RAKING  
 SEED: MIX 17 - OPTIMAL DATES 3/1-4/30 AND 8/15-11/15 ACCEPTABLE DATES 5/1-8/14  
 120 LBS/AC HARD FESCUE, 30 LBS/AC CREEPING FESCUE, 10 LBS/AC PERENNIAL RYEGRASS  
 THIS IS A GENERAL RECOMMENDATION. OTHER SEEDINGS CAN BE USED (MIX 12,14,15 & 16).

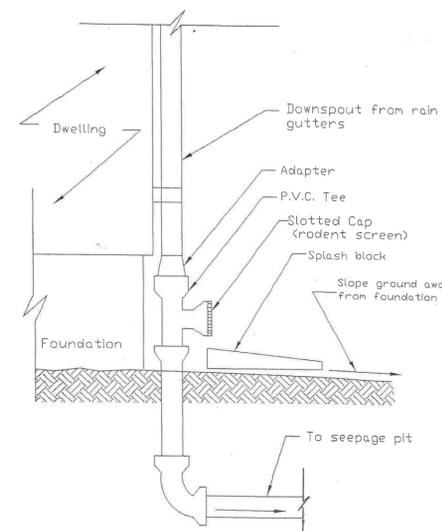
**DETENTION/SEDIMENT BASIN SEEDING**

LIME: 3 TONS/ACRE GROUND LIMESTONE  
 FERTILIZER: 600 LBS. PER ACRE 10-20-10  
 SEED: MIX 9 - OPTIMAL DATES 3/1-4/30 AND 8/15-11/15 ACCEPTABLE DATES 5/1-8/14  
 SEED: 40 LBS/AC OF KENTUCKY BLUEGRASS, 60 LBS/AC STRONG CREEPING RED FESCUE 10 LBS/AC PERENNIAL RYEGRASS OR 3 LBS/AC OF REDTOP AND 5 LBS/AC WHITE CLOVER  
 THIS IS A GENERAL RECOMMENDATION. OTHER SEEDINGS CAN BE USED (MIX 2,3,7,10,11,12,17 & 20).

**TEMPORARY STABILIZATION WITH MULCH ONLY**

STRAW MULCH OR EQUIVALENT SPREAD UNIFORMLY AT THE RATE OF 2 - 2 1/2 TONS/ACRE (TOTAL GROUND SURFACE COVERAGE). THIS PRACTICE IS APPLICABLE IN AREAS WHERE THE SEASON OR OTHER CONDITIONS MAY NOT BE SUITABLE FOR

ESTABLISHING VEGETATIVE COVER. MULCH ONLY IS TO BE USED ONLY FOR SHORT PERIODS AND WILL REQUIRE MAINTENANCE AND RENEWAL.



TYPICAL ROOF DRAIN W/CLEANOUT

Table 16-1 Dust Control Materials

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
Anionic asphalt emulsion	7:1	Coarse Spray	1200
Latex emulsion	12.5:1	Fine Spray	235
Resin in water	4:1	Fine Spray	300
Polyacrylamide (PAM) - spray on Polyacrylamide (PAM) - dry spread			Apply according to manufacturer's instructions. May also be used as an additive to sediment basins to flocculate and precipitate suspended colloids. See Sediment Basin standard, p. 26-1
Acidulated Soy Bean Soap Stick	None	Coarse Spray	1200

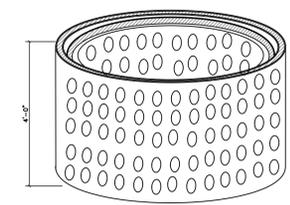
**Tillage** - To roughen surface and bring clods to the surface. This is a temporary emergency measure which should be used before soil blowing starts. Begin plowing on windward side of site. Chisel-type plows spaced about 12 inches apart and spring-toothed harrows are examples of equipment which may produce the desired effect.

**Sprinkling** - Site is sprinkled until the surface is wet.

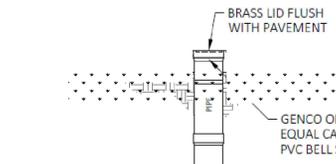
**Barriers** - Solid board fences, snow fences, burlap fences, crate walls, bales of hay and similar material can be used to control air currents and soil blowing.

**Calcium Chloride** - Shall be in the form of loose, dry granules or flakes fine enough to feed through commonly used spreaders at a rate that will keep surface moist but not cause pollution or plant damage. If used on steeper slopes, then use other practices to prevent washing into streams or accumulation around plants.

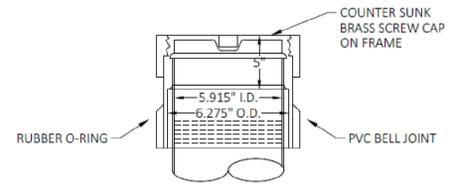
**Stone** - Cover surface with crushed stone or coarse gravel.



SECTION B-B SCALE: NTS



BRASS SCREW CAP - PLAN VIEW



4" OR 6" BRASS SCREW PLUG - SECTION VIEW DETAIL  
 TYPICAL CLEANOUT

**DUST CONTROL NOTES**

- THE CONTROL OF DUST WILL BE MANAGED VIA SPRAY-ON ADHESIVES.
- SPRAY-ON ADHESIVES WILL BE LIMITED TO USAGE ON MINERAL SOIL AND TRAFFIC WILL BE KEPT OFF THESE AREAS.
- REFER TO MATERIAL TABLE BELOW FOR STANDARDS THAT SHALL BE UTILIZED:

**OEA**  
 OPTIMIZED ENGINEERING ASSOCIATES  
 400 38TH STREET, SUITE 307  
 UNION CITY, NJ 07087  
 201-430-9173  
 201-866-0913 (FAX)  
 E-mail: guy@oea-corp.com  
 Web: www.oea-corp.com

DOB NOW JOB #

NO.	DATE	DESCRIPTION	APPROD.

REVISIONS:  
 PROJECT LOCATION:  
 918 NYS ROUTE 9W  
 NYACK, NY

PROJECT DESCRIPTION:  
 CIVIL DETAILS FOR  
 RENOVATED HOUSE



DR. GJ. TR. CK. RES. CK.  
 GUY LACOMARSINO, P.E.  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 073596

SCALE: NTS  
 DATE: JUNE 2025  
 C-201  
 SHEET 4 OF 4