

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: AVION VENTURES-WAREHOUSE

PROJECT NO.: 24-16

PROJECT LOCATION: SECTION 86, BLOCK 1, LOT 37.222

REVIEW DATE: 14 FEBRUARY 2025 MEETING DATE: 20 FEBRUARY 2025

PROJECT REPRESENTATIVE: COLLIERS ENGINEERING AND DESIGN

- 1. Compliance with the Tree Preservation Ordinance, Chapter 172 of the Zoning Code is required.
- 2. Project proposes stormwater management facilities within the NYSDEC regulated buffer area for onsite wetlands. NYSDEC wetlands permit will be required.
- 3. Show NYSDEC wetland buffer on the utility plans to clearly demarcate impacted areas.
- 4. A Preliminary SWPPP has been submitted and is under review by this office.
- 5. This office circulated Notice of Intent for Lead Agency on 27 November 2024. The Planning Board would be in a position to declare its self-lead agency for SEQRA review.
- 6. The utility plans identify a 3,000-gallon septic tank prior to the pump station. A grinder type pump station should be proposed in order not to discharge anerobic septic effluent into the Town sewer system.
- 7. Dominic Cordisco's comments regarding access across the private roadway should be received.
- 8. Plans were submitted to the Coldenham Fire District during the Lead Agency circulation.
- 9. Comments from jurisdictional Fire Department should be received.
- 10. A City of Newburgh flow acceptance letter will be required. Hydraulic loading from the site should be calculated. The applicant's representative should submit a letter to the Town identifying anticipated hydraulic loading rate. The Town will coordinate with the City of Newburgh.

- 11. A Stormwater Facilities Maintenance Agreement will be required.
- 12. Health Department approval of the water main extension w/hydrants will be required. Design report should be submitted to Town when transmitted to Health Department.
- 13. Design for the sewer pump station should be submitted.

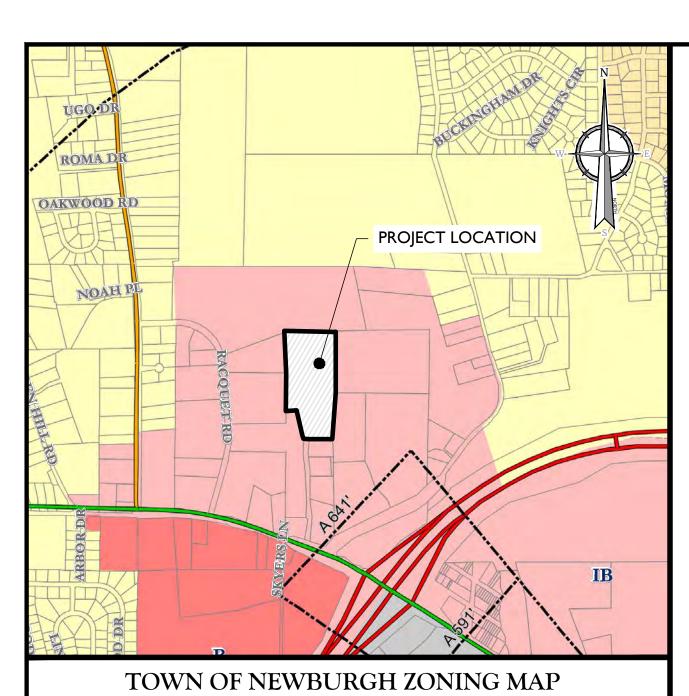
Respectfully submitted,

MHE Engineering, D.P.C.

Patrick J. Hines

Principal PJH/kmm Muc Wased
Michael W. Weeks, P.E.

Principal



SCALE: 1" = 1000' SOURCE: ORANGE COUNTY NY.

NEW YORK STATE

PRELIMINARY SITE PLAN

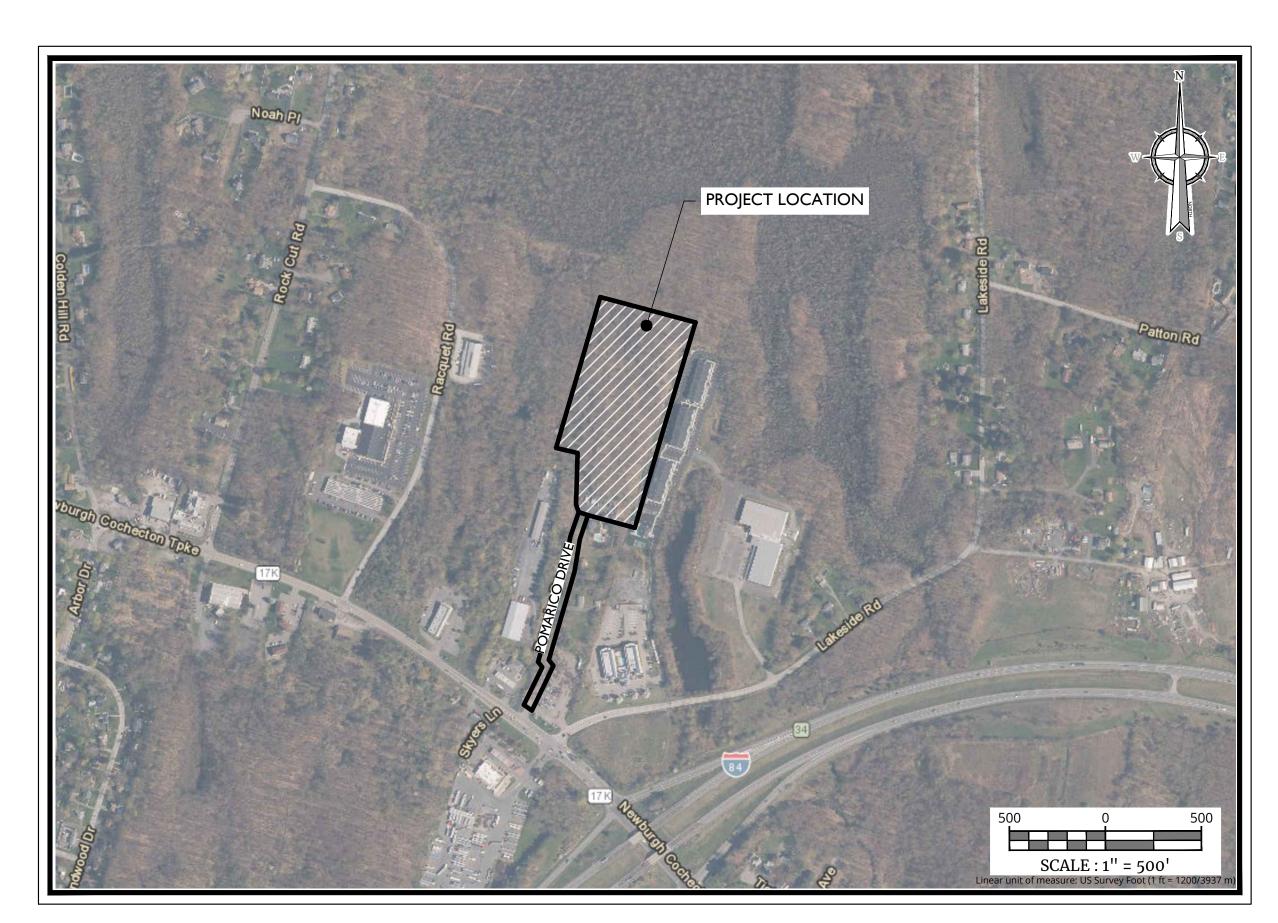
FOR

AVION VENTURES

POMARICO DRIVE

SECTION 86, BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY, NEW YORK STATE



LOCATION MAP

SOURCE: NEW YORK STATE CLEARINGHOUSE

		INDEX OF SHEETS
	SHT. No.	DESCRIPTION
	C-100	COVER SHEET
	C-200	SITE DEMOLITION PLAN
SHALLOW	C-300	OVERALL DIMENSION PLAN
By: KYLE.SHALLOW	C-401	GRADING PLAN
VER	C-501	UTILITY PLAN
9A\Engineering\Site Plans\C-CVER.dwg\C-1.0-COVER	C-601	LANDSCAPE PLAN
CVER.dw	C-701	LIGHTING PLAN
te Plans\C	C-801	SOIL EROSION & SEDIMENT CONTROL PLAN
neering\Si	C-802	SOIL EROSION & SEDIMENT CONTROL DETAILS
9A\Engi	C-901-905	CONSTRUCTION DETAILS

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ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.

GENERAL INFORMATION

THE SUBJECT PROPERTIES ARE KNOWN AS SECTION 86, BLOCK 1, LOT 37.222 AND SECTION 86, BLOCK 1, LOT 37.223 IN THE TOWN OF NEWBURGH, ORANGE COUNTY, NEW YORK.
 THE PROPERTY IS LOCATED IN THE IB (INTERCHANGE BUSINESS) ZONING DISTRICT. THE TAX LOTS CONTAINS A TRACT AREA OF ±576,342 SQ. FT., ±13.23 ACRES.

PENTECOSTAL TABERNACLE CHURCH
P.O. BOX 10694
NEWBURGH, NY 12552

491 NY 208, SUITE 112

(86-1-37.223)
DIMMICK PROPERTIES, LLC
402 VT 107
SOUTH ROYALTON, VT 05068

CANT

AVION VENTURES ATTN: SUZIE TAUBER

MONROE, NY 10950

3. BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN ENTITLED "BOUNDARY AND TOPOGRAPHIC SURVEY" PREPARED FOR "LANDS NOW OR FORMERLY OF ANTONIO R. HIBBERT O/B/O PENUEL PENTECOSTAL TABERNACLE CHURCH". PREPARED BY COLLIERS ENGINEERING & DESIGN; DATED APRIL, 23 2024.

4. THE HORIZONTAL DATUM IS RELATIVE TO NAD83. THE VERTICAL DATUM IS RELATIVE TO N.A.V.D. 1988.

5. THE LIMITS OF FRESHWATER WETLANDS NB-21 SHOWN HEREON WERE FIELD DELINEATED BY ECOLOGICAL SOLUTIONS, LLC ON 03/20/2024. 1248 SOUTHFORD ROAD, SOUTHBURY, CT 06488 BY MICHAEL NOWICKI.

 NO 100 YEAR FLOOD PLAINS ARE KNOWN TO EXIST ON THE SITE PER THE FLOOD INSURANCE RATE MAPS 36071C0138E DATED 08/03/2009 PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

7. THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. COLLIERS ENGINEERING & DESIGN HAS PERFORMED NO EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAWS AND

8. THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS NOT A SURVEY.

9. DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE DIMENSIONS ARE SHOWN THERETO.

10. THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED, ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER AND/OR MUNICIPAL ENGINEER.

I I. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.

12. PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL 811 TO REQUEST A UTILITY MARKOUT.

13. INFORMATION HEREON INCORPORATES THE CONTENT IN THE FOLLOWING REPORTS:

A. "TRAFFIC IMPACT STUDY" PREPARED FOR AVION VENTURES AND PREPARED BY COLLIERS ENGINEERING & DESIGN DATED JANUARY 15, 2025.
 B. "PRELIMINARY STORM WATER POLLUTION PREVENTION PLAN" PREPARED FOR AVION VENTURES AND PREPARED BY COLLIERS ENGINEERING & DESIGN DATED JANUARY 31, 2025.

SITE NOT

BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING FOOTPRINT DIMENSIONS FOR THE BUILDING
SHALL BE FURNISHED ON THE INDIVIDUAL ARCHITECTURAL PLANS AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL
STRUCTURES SHALL CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.

2. CURBS SHALL BE DEPRESSED FLUSH WITH PAVEMENT, AND ADA ACCESSIBLE CURB RAMPS INSTALLED WHERE SIDEWALKS AND CROSSWALKS INTERSECT SAME. DETECTABLE WARNINGS SHALL BE INCLUDED ON ADA ACCESSIBLE CURB RAMPS.

3. TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE MATERIALS IN ACCORDANCE WITH GOVERNING REGULATIONS AND AGENCIES.

REFUSE AND RECYCLABLES SHALL BE STORED WITHIN OUTSIDE SCREENED TRASH ENCLOSURES AS NOTED ON THE PLANS AND PICKED UP BY A PRIVATE WASTE DISPOSAL HAULER.

6. THERE SHALL BE NO ON-SITE BURIAL OF CONSTRUCTION MATERIALS, TREE BRANCHES, STUMPS, OR OTHER DELETERIOUS MATERIALS.7. MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREON SHALL BE IN ACCORDANCE WITH:

A. NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", 2020; AS SUPPLEMENTED.

B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.

C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

D. CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.

1. EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS, AND SIZES. TEST PIT INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE.

2. UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY

RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.

3. STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP) WITH "O" RING GASKETS OR INTERNALLY PRELUBRICATED GASKET (TYLOX SUPERSEAL OR EQUIVALENT, ADS N-12 HIGH DENSITY POLYETHYLENE PIPE (HDPE), AS NOTED ON THE PLAN, OR APPROVED EQUAL. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

4. WATER SERVICE TO BE PROVIDED BY A MUNICIPAL WATER CONNECTION WITHIN POMARICO DRIVE. PROPOSED WATER MAIN AND FIRE HYDRANT LOCATIONS ARE SUBJECT TO MUNICIPAL AND ORANGE COUNTY DEPARTMENT OF HEALTH REVIEW AND APPROVAL. PIPE MATERIALS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52, WITH ASPHALTIC EPOXY TYPE COATING OR HIGH DENSITY POLYETHYLENE (HDPE) SDR-II PIPE AS NOTED ON THE PLANS. WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM OF 4.5 FEET OF COVER FROM THE TOP OF PIPE TO THE PROPOSED GRADE.

5. SANITARY SEWER SERVICE SHALL BE PROVIDED BY PUMP STATION & FORCEMAIN CONNECTION TO THE EXISTING SYSTEM AT THE INTERSECTION OF POMARICO DRIVE AND NYS ROUTE 17K. ON-SITE GRAVITY PIPE MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEPT WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY, SEWER LINES, INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALLED TO PROVIDE A MINIMUM 4.0 FEET OF COVER FROM THE TOP OF PIPE

6. ALL WATER PIPES SHOULD BE SEPARATED FROM SANITARY SEWER LINES BY A MINIMUM HORIZONTAL DISTANCE OF 10 FEET. IF SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN ENCASED IN CONCRETE OR WITH SUCH SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT OF HEALTH.

7. AT THE CROSSINGS OF ALL SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE WATER LINE SHALL BE ENCASED IN CONCRETE SUBJECT TO THE APPROVAL OF THE PROJECT ENGINEER.

8. GAS, ELECTRIC, LIGHTING, CABLE TELEVISION, AND ELECTRICAL SERVICE PLANS, IF REQUIRED, SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE THE AREA PRIOR TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE OR LOCAL

9. TELEPHONE, ELECTRIC, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSINGS OF PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COLURSE

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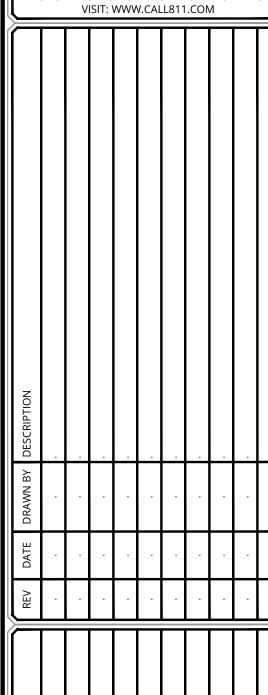
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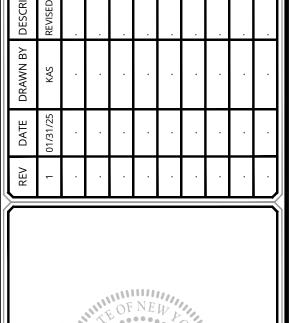
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Connor Patrick McCormack

NEW YORK LICENSED PROFESSIONAL ENGINEER

LICENSE NUMBER: 103756

COLLIERS ENGINEERING & DESIGN CT, P.C.

N.Y. C.O.A #: 0017609

PRELIMINARY SITE PLAN

AVION VENTURES
POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE

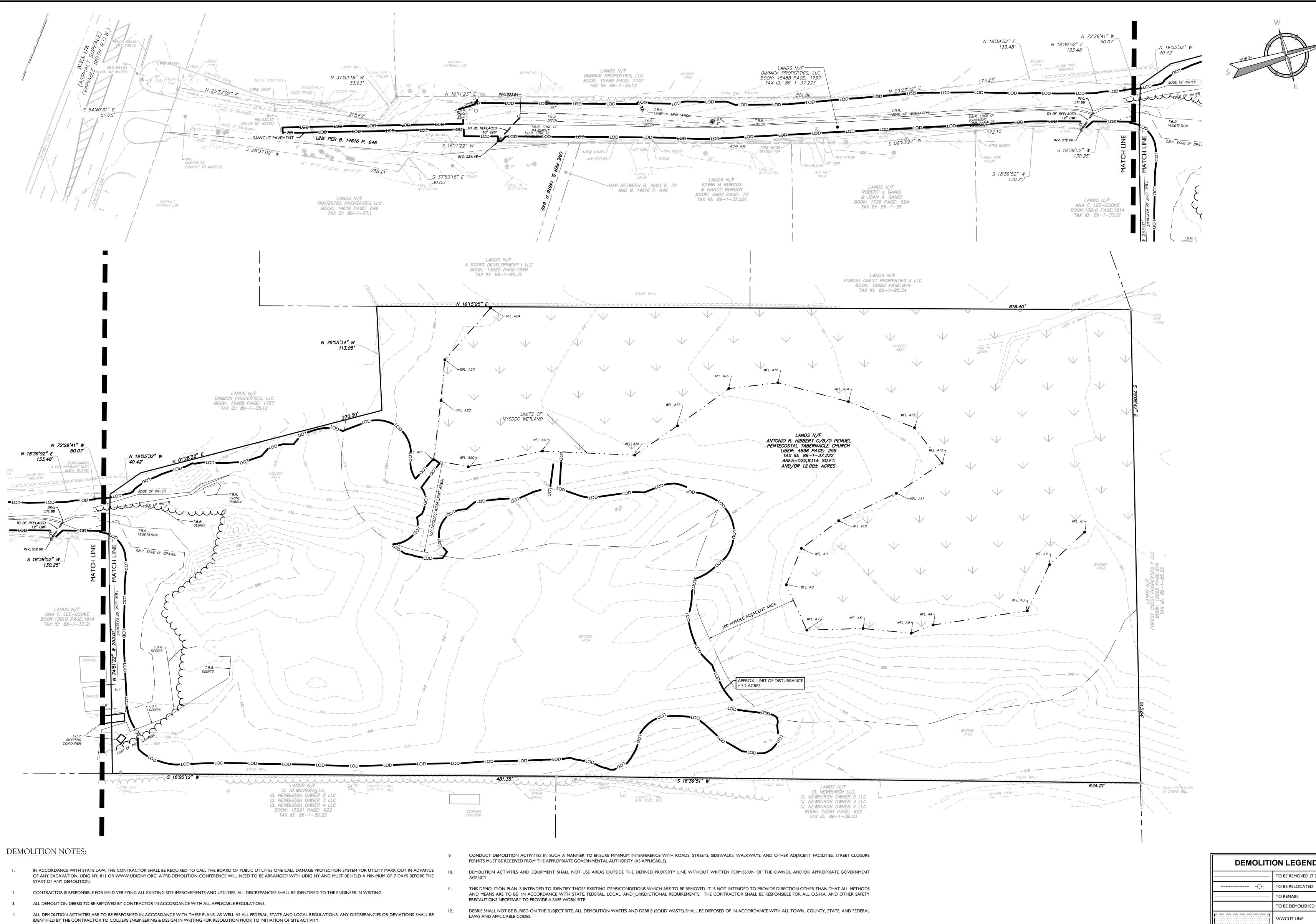
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DJECT NUMBER: DRAWING NAME: 24002169A C-CVER

COVER SHEET

C-100



- PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
- A. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW (SEE "EROSION AND SEDIMENT CONTROL PLAN," THIS DRAWING SET). B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
- C. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
- D. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES. E. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS. F. CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO CONSTRUCTION AND VERIFY THE INVERTS FOR CONNECTION.
- 6. COLLIERS ENGINEERING & DESIGN IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.

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- DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLY SHUT OFF AND
- protect all existing utilities to remain (including drainage structures, hydrants, valves, sewer manholes, etc.) during demolition. The contractor is responsible for any
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Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m

DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE APPROPRIATE JURISDICTION.

DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.

APPLICABLE LAW AND REGULATIONS. TREE CLEARING AND REMOVAL SHALL OCCUR BETWEEN OCTOBER 1ST AND MARCH 31ST TO MITIGATE POTENTIAL IMPACTS TO THE INDIANA BAT. **Colliers**

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TO BE RELOCATED TO BE DEMOLISHED ------SAWCUT LINE

TO BE REMOVED (T.B.R.)

LICENSE NUMBER: 103756 COLLIERS ENGINEERING & DESIGN CT, P.C. N.Y. C.O.A #: 0017609

PRELIMINARY SITE PLAN

AVION VENTURES POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

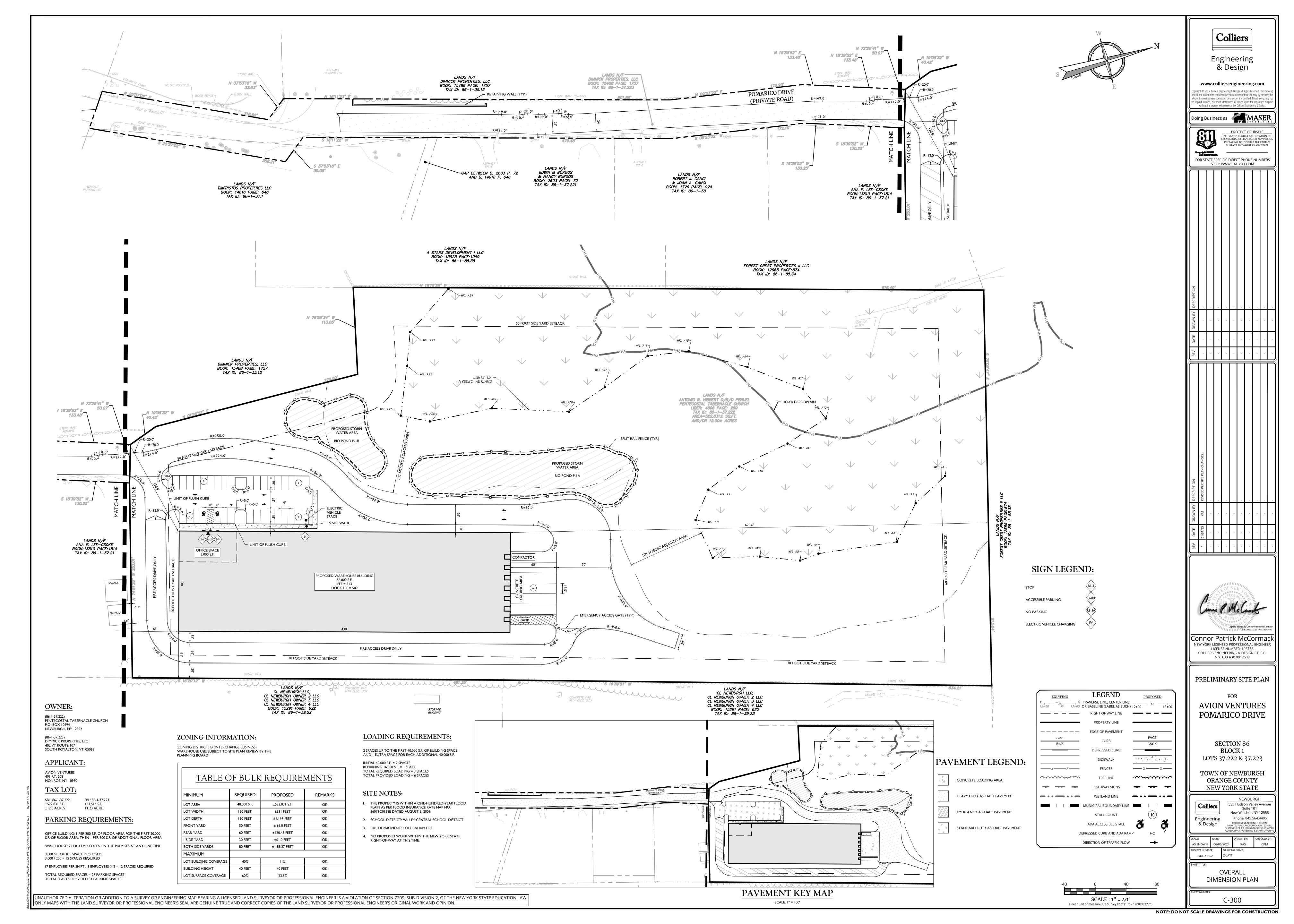
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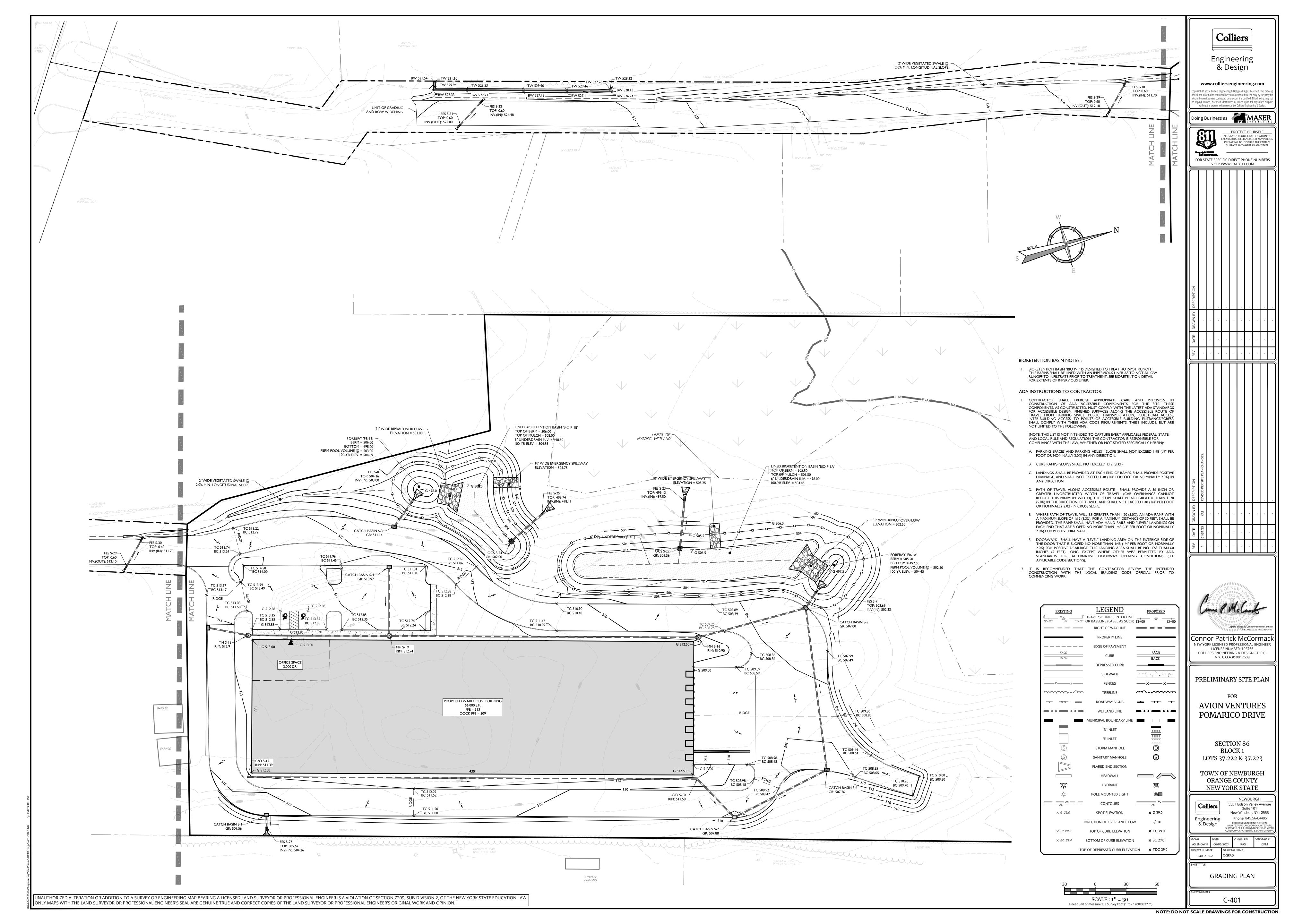
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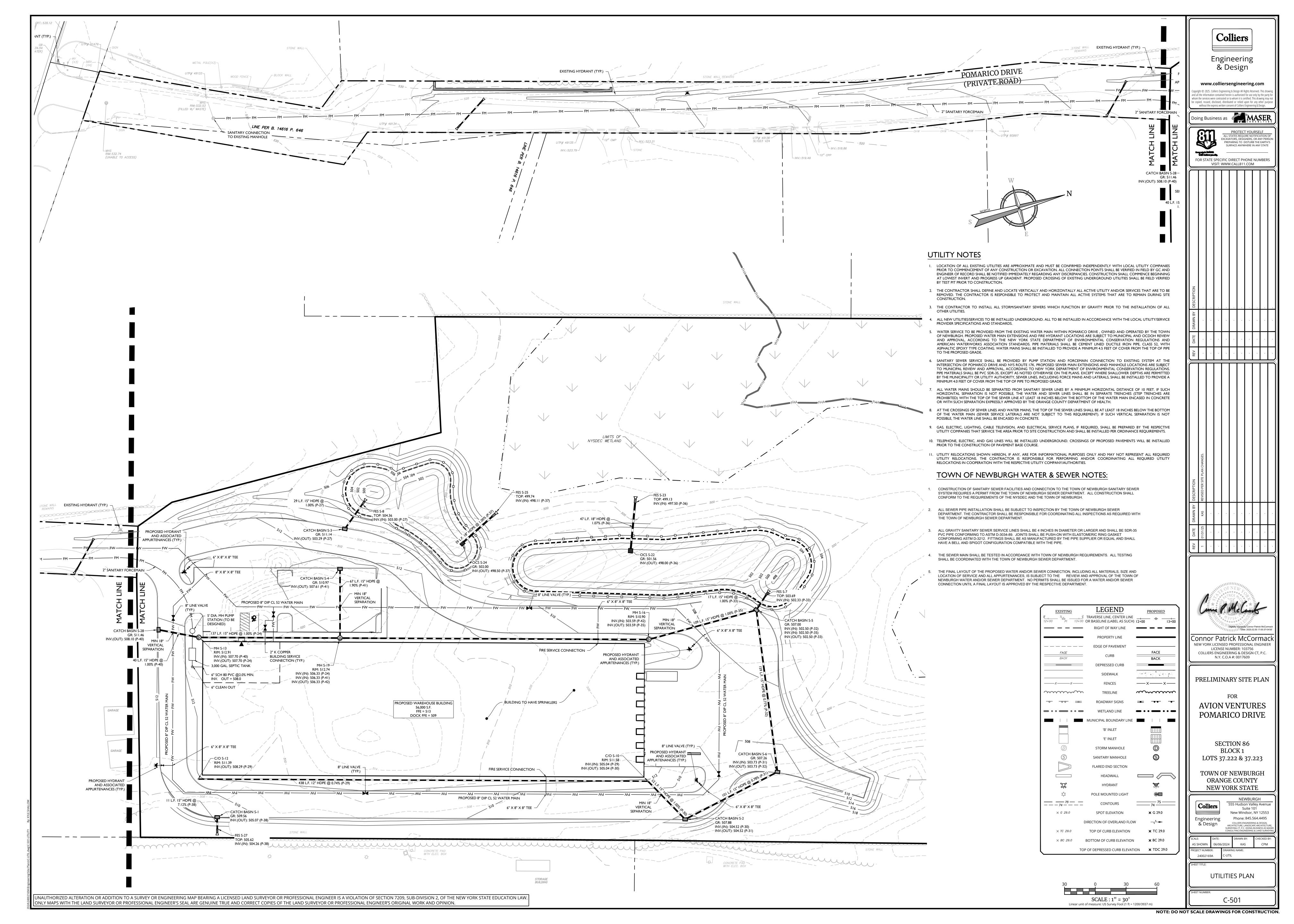
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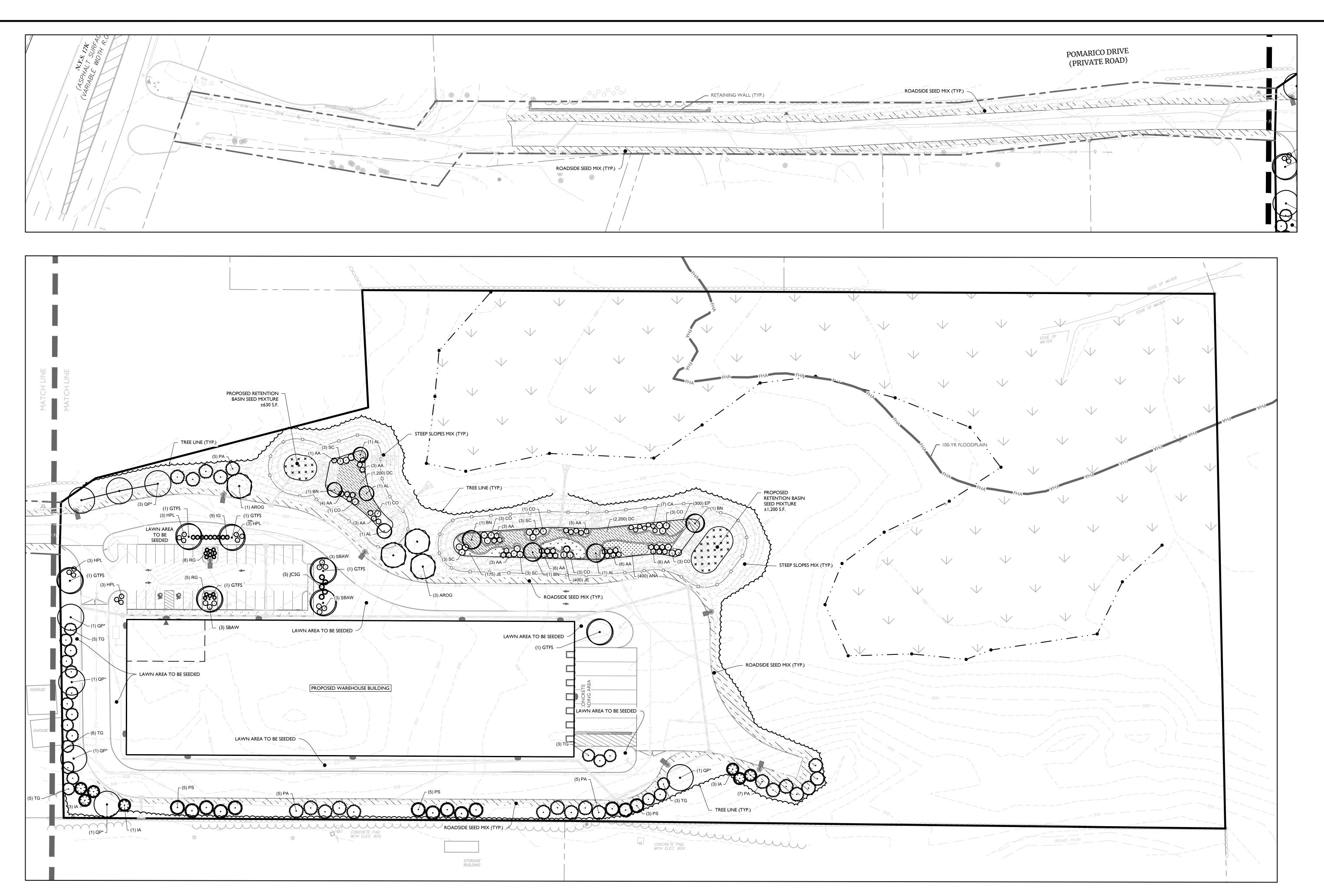
SITE DEMOLITION PLAN

C-200



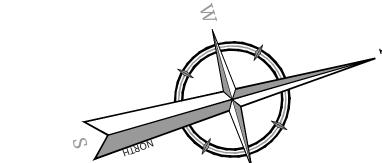






SITE PLANTNG SCHEDULE								
DECIDUOUS TREES AROG	QTY 4	BOTANICAL NAME Acer rubrum 'October Glory'	COMMON NAME October Glory Red Maple	ROOT B & B	<u>SIZE</u> 2-2 1/2"	REMARKS STRAIGHT LEADER/SYM. BRANCHING		
GTFS	6	Gleditsia tricanthos 'Skyline'	Skyline Honey Locust	B & B	2-2 1/2"	STRAIGHT LEADER/SYM. BRANCHING		
QP*	8	Quercus palustris	Pin Oak	B & B	2-2 1/2"	STRAIGHT LEADER/SYM. BRANCHING		
EVERGREEN TREES	QTY 7	BOTANICAL NAME llex opaca	COMMON NAME American Holly	ROOT B & B	SIZE 6-8` Ht.	REMARKS DENSE / TYP. SPECIES HABIT		
PA	22	Picea abies	Norway Spruce	B & B	6-8' Ht.	DENSE / TYP. SPECIES HABIT		
PS	13	Pinus strobus	White Pine	B & B	6-8` Ht.	DENSE / TYP. SPECIES HABIT		
TG	22	Thuja occidentalis 'Green Giant'	Green Giant Arborvitae	B & B	6-8` Ht.	DENSE / TYP. SPECIES HABIT		
SHRUBS HPL	<u>QTY</u> 12	BOTANICAL NAME Hydrangea paniculata 'Limelight'	COMMON NAME Limelight Panicle Hydrangea	ROOT CONT.	SIZE 24"-30"	REMARKS TYPICAL SPECIES HABIT		
IG	9	llex glabra `Shamrock`	Inkberry	CONT.	24"-30"	TYPICAL SPECIES HABIT		
RG	13	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	CONT.	18" - 24"	TYPICAL SPECIES HABIT		
SBAW	9	Spiraea x bumalda 'Anthony Waterer'	Anthony Waterer Bumald Spiraea	CONT.	30" - 36"	TYPICAL SPECIES HABIT		

EES L	<u>QTY</u> 4	BOTANICAL NAME Amelanchier laevis	<u>COMMON NAME</u> Allegheny Serviceberry	ROOT CONT.	<u>SIZE</u> 6` - 8`	REMARKS MULTISTEM / TYP. SPECIES HABIT
BN	4	Betula nigra	River birch	CONT.	6` - 8`	MULTISTEM / TYP. SPECIES HABIT
HRUBS AA	40	Aronia arbutifolira	Red Chokeberry	CONT.	SIZE 24"-30"	REMARKS TYPICAL SPECIES HABIT
CA	7	Clethra Alnifolia	Summersweet	CONT.	18"-24"	TYPICAL SPECIES HABIT
СО	15	Cephalanthus occidentalis	Button Bush	CONT.	18"-24"	TYPICAL SPECIES HABIT
sc	12	Sambucus canadensis	Elderberry	CONT.	18"-24"	TYPICAL SPECIES HABIT
ERENNIALS	•				REMARKS	
ANA	400	Aster novae angliae	New England Aster	1 GAL. CONT.	CLUMPS, 2	4" O.C.
DC	3,400	Deschampsia cespitosa	Tufted Hair Grass	#SP3 CONT.	CLUMPS, 1	2" O.C.
EP	300	Echinacea purpurea	Coneflower	1 GAL. CONT.	CLUMPS, 2	4" O.C.
JE	575	Juncus effusus	Common Rush	#SP3 CONT.	CLUMPS, 1	2" O.C.



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Justin Eric Dates

NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLAN

FOR
AVION VENTURES
POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE

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DJECT NUMBER:

24002169A

C-LAND

EET TITLE:

LANDSCAPE PLAN

SCALE: 1" = 40'
SELECT LINEAR UNIT OF MEASURE

LANDSCAPE LEGEND

— DECIDUOUS TREE

- EVERGREEN TREE

— ORNAMENTAL GRASS

— PERENNIAL PLANTING

— NATIVE STEEP SLOPE SEED MIXTURE

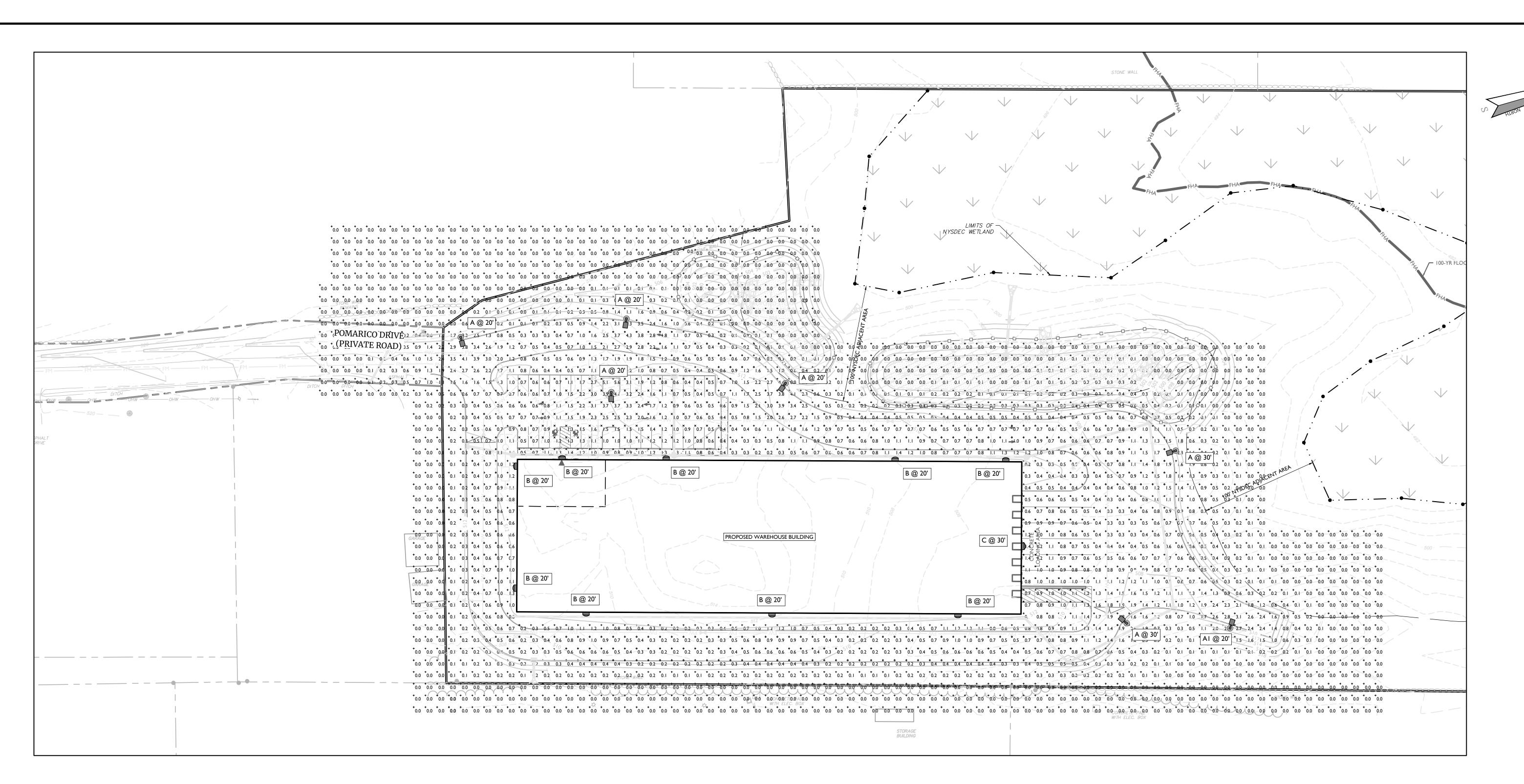
— RETENTION BASIN SEED MIXTURE

– LAWN AREA

— MULCH BED LINE

STATE EDUCATION LAW.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY OR ENGINEERING MAP BEARING A LICENSED LAND SURVEYOR OR PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.
ONLY MAPS WITH THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S SEAL ARE GENUINE TRUE AND CORRECT COPIES OF THE LAND SURVEYOR OR PROFESSIONAL ENGINEER'S ORIGINAL WORK AND OPINION.



	LUMINAIRE SCHEDULE								
KEY	QTY.	DESCRIPTION	ARRANGEMENT	MTG. HT.	LUMENS/LAMP	LLF	CATALOG #		
Α	6	AMERICAN ELECTRIC LIGHTING - ACM SERIES LED	SINGLE	20' / 30'	11,920	0.9	ACM-P609-MVOLT*-R4-3K-HS-BK-P7		
AI	I	AMERICAN ELECTRIC LIGHTING - ACM SERIES LED	SINGLE	20'	7,677	0.9	ACM-P604-MVOLT*-R3-3K-HS-BK-P7		
В	9	HOLOPHANE WALL PACK FULL CUTOFF LED	SINGLE WALL PACK	20'	5,219	0.9	HLWPC2-P20-30K-MVOLT*-T4M-BKSDP-P7		
С	I	HOLOPHANE WALL PACK FULL CUTOFF LED	SINGLE WALL PACK	30'	10,582	0.9	HLWPC2-P50-30K-MVOLT*-T3M-BKSDP-P7		

* VOLTAGE TO BE CONFIRMED BY ELECTRICAL CONTRACTOR

CALCULATION SUMMARY									
DESCRIPTION	CALC. TYPE	UNITS	AVG.	MAX.	MIN.	AVG. / MIN.			
PARKING AREA	ILLUMINANCE	FC	1.4	5.1	0.4	3.5 : I			
LOADING DOCK AREA	ILLUMINANCE	FC	0.9	1.4	0.4	2.3 : I			

LIGHTING NOTES:

- I. THIS PLAN IS TO BE USED FOR LIGHTING PURPOSES ONLY.
- POLES AND FIXTURES AS SUPPLIED BY:
 POLES & WALL FIXTURES HOLOPHANE
 POLE FIXTURES AMERICAN ELECTRIC LIGHTING
- 3. LAMPS ARE TO BE LEDs. A LIGHT LOSS FACTOR (LLF) WAS USED AS SHOWN IN THE LUMINARIES SCHEDULE.
- 4. FIXTURES AND POLES ARE TO BE BLACK.
- POLE MOUNTED FIXTURES SHALL BE PLACED A MINIMUM OF TWO (2) FEET BEHIND CURBS, EDGE OF PAVEMENT OR RETAINING WALLS IN CAR PARKING AREAS.
- 6. PROPOSED LIGHT FIXTURE LOCATIONS ARE CRITICAL TO PROVIDE THE LIGHTING LEVELS DEPICTED ON THIS PLAN. THE LIGHTING CONTRACTOR SHALL FIELD VERIFY FIXTURE LOCATIONS PRIOR TO INSTALLATION. IF ADJUSTMENT TO ANY LIGHT FIXTURE LOCATION IS REQUIRED DUE TO FINAL CONSTRUCTION OF UTILITIES AND SITE IMPROVEMENTS, THE LIGHTING CONTRACTOR SHALL NOTIFY THE PROJECT LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
- LIGHTING SHOWN ON PLAN DEPICTS AVERAGE MAINTAINED FOOTCANDLE LEVELS AT GRADE.
- CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- 9. ELECTRICAL PLANS FOR WIRING LAYOUT BY OTHERS.
- 10. POLE BASE INSTALLATION SHALL INCLUDE A SUPPLEMENTARY GROUND ROD AND WIRE LEAD TO BASE FOR POWER CONNECTION. DETAILS PER PROJECT ELECTRICAL ENGINEER
- PROJECT ELECTRICAL ENGINEER.

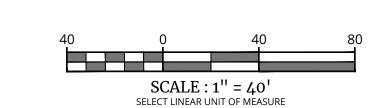
 11. ALL LIGHTING FIXTURES WILL BE DARK SKY COMPLIANT.

LIGHTING LEGEND:

SINGLE FIXTURE POLE LIGHT

■ WALLPACK

*0.0 LIGHT LEVEL AT GRADE (IN FOOTCANDLES)



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OF NEW

Justin Eric Dates

NEW YORK REGISTERED LANDSCAPE ARCHITECT
LICENSE NUMBER: 001964-01
COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLAN

FOR
AVION VENTURES
POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY

NEW YORK STATE

NEWBURGH

555 Hudson Valley Avenue
Suite 101
New Windsor, NY 12553

Colliers

Suite 101

New Windsor, NY 12553

Phone: 845.564.4495

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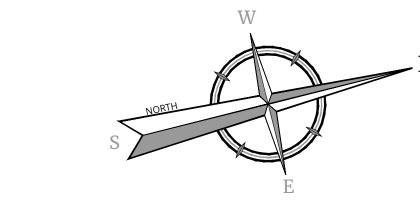
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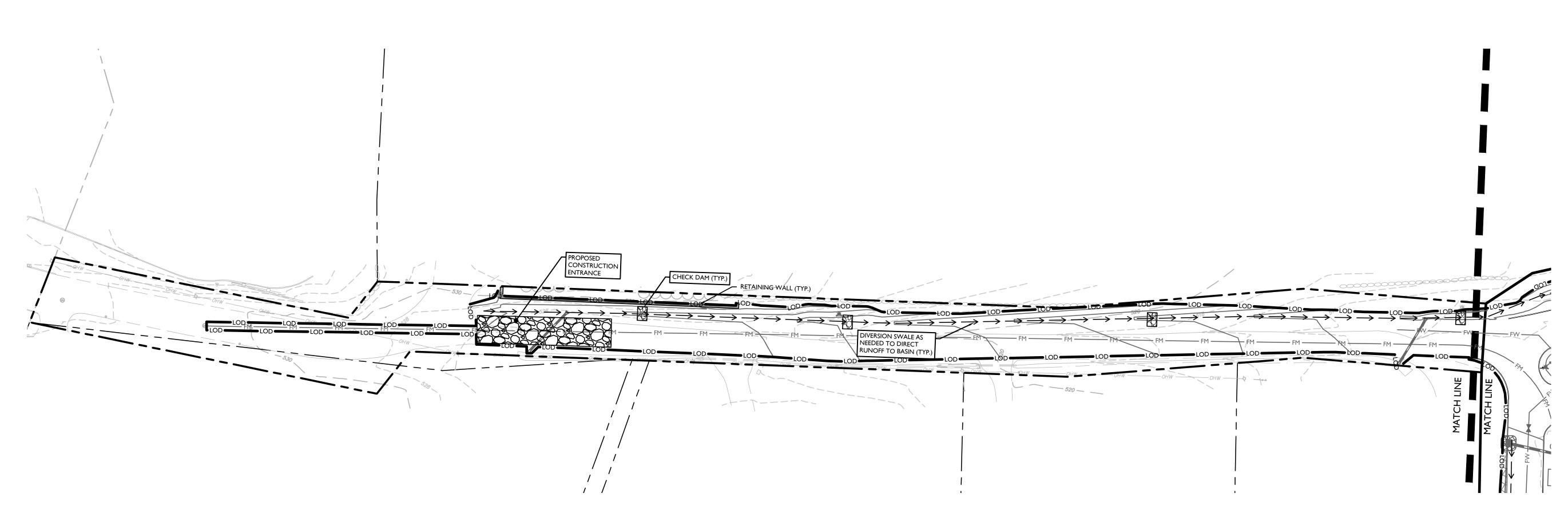
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5 SHOWN 06/06/2024 KAS CPM

DJECT NUMBER: DRAWING NAME:
24002169A C-LGHT

LIGHTING PLAN

C-701





GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

- I. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS
- 2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN SEVEN (7) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 3. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
- 5. A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY
- 6. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- 7. ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER, THAN 3:1)
- INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).

 8. THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT

ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.

- 9. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES
- 10. AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE
- 12. SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN
- ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.

 13. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC
- RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY.

 14. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR
- BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.

 15. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- 16. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCITON MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE
- MAINTAINED THROUGHOUT CONSTRUCTION.

 17. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE
- STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.

 18. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE
- PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.

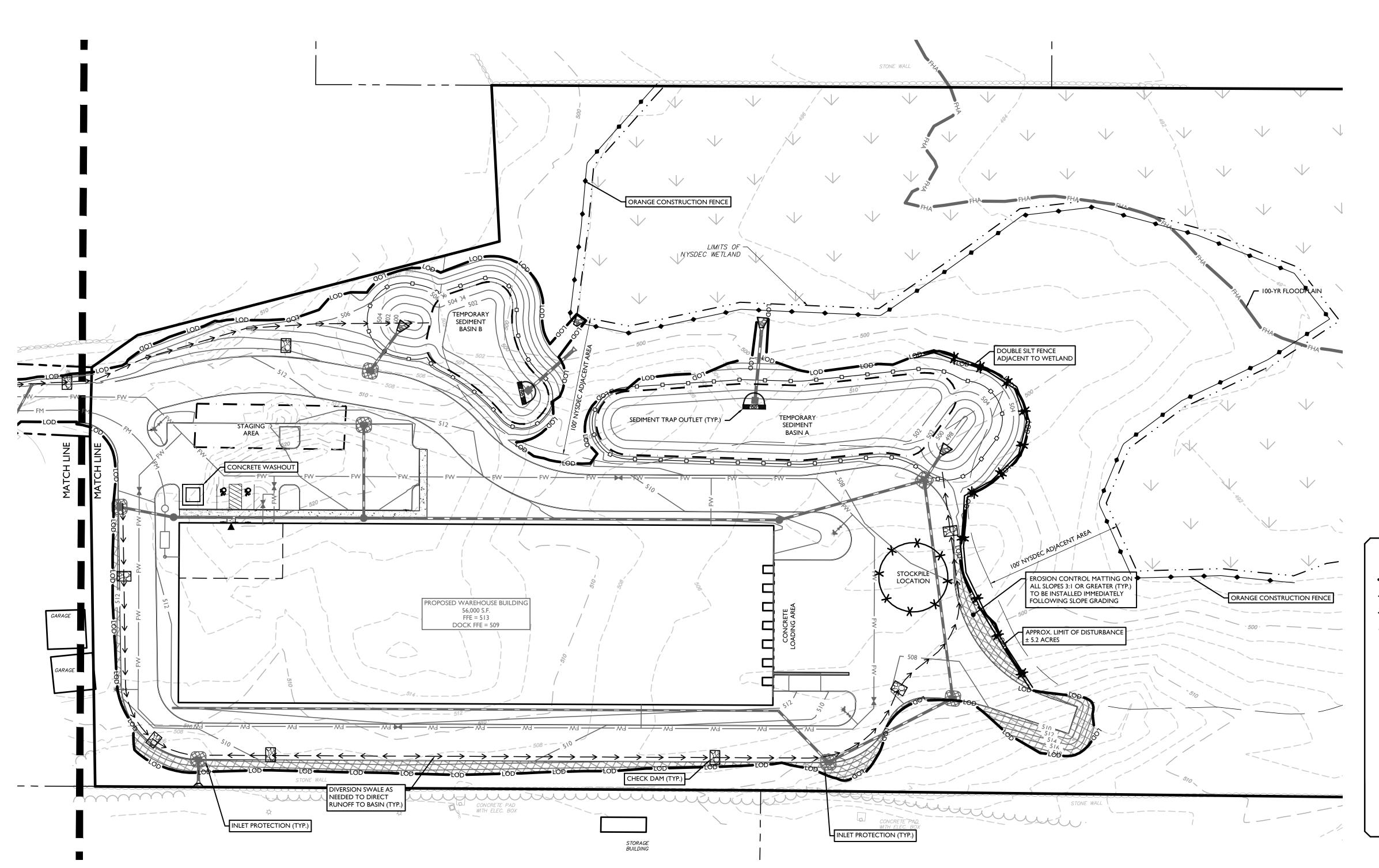
 19. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.

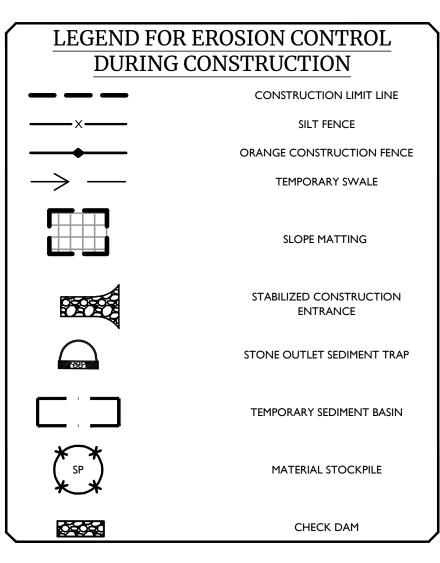
OF SOIL HAVING A PH OF 5 OR MORE.

IN ACCORDANCE WITH STATE STANDARDS.

- 20. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- 21. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES.
- FINAL STABILIZATION MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.

 MAINTENANCE PLAN DURING CONSTRUCTION:
- INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-20-001. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS' CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- NOTE: DURING THE CONSTRUCTION OF A PHASE, EACH SUBSEQUENT PHASE WILL HAVE BEEN CAPPED AND STABILIZED WITH DENSE GRASS COVER.





SCALE: 1" = 40 Linear unit of measure: US Survey Foot (1 ft = 1200/3937 m)

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Connor Patrick McCormack

NEW YORK LICENSED PROFESSIONAL ENGINEER

LICENSE NUMBER: 103756

COLLIERS ENGINEERING & DESIGN CT, P.C.

N.Y. C.O.A #: 0017609

PRELIMINARY SITE PLAN

FOR
AVION VENTURES
POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE

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555 Hudson Valley Avenue
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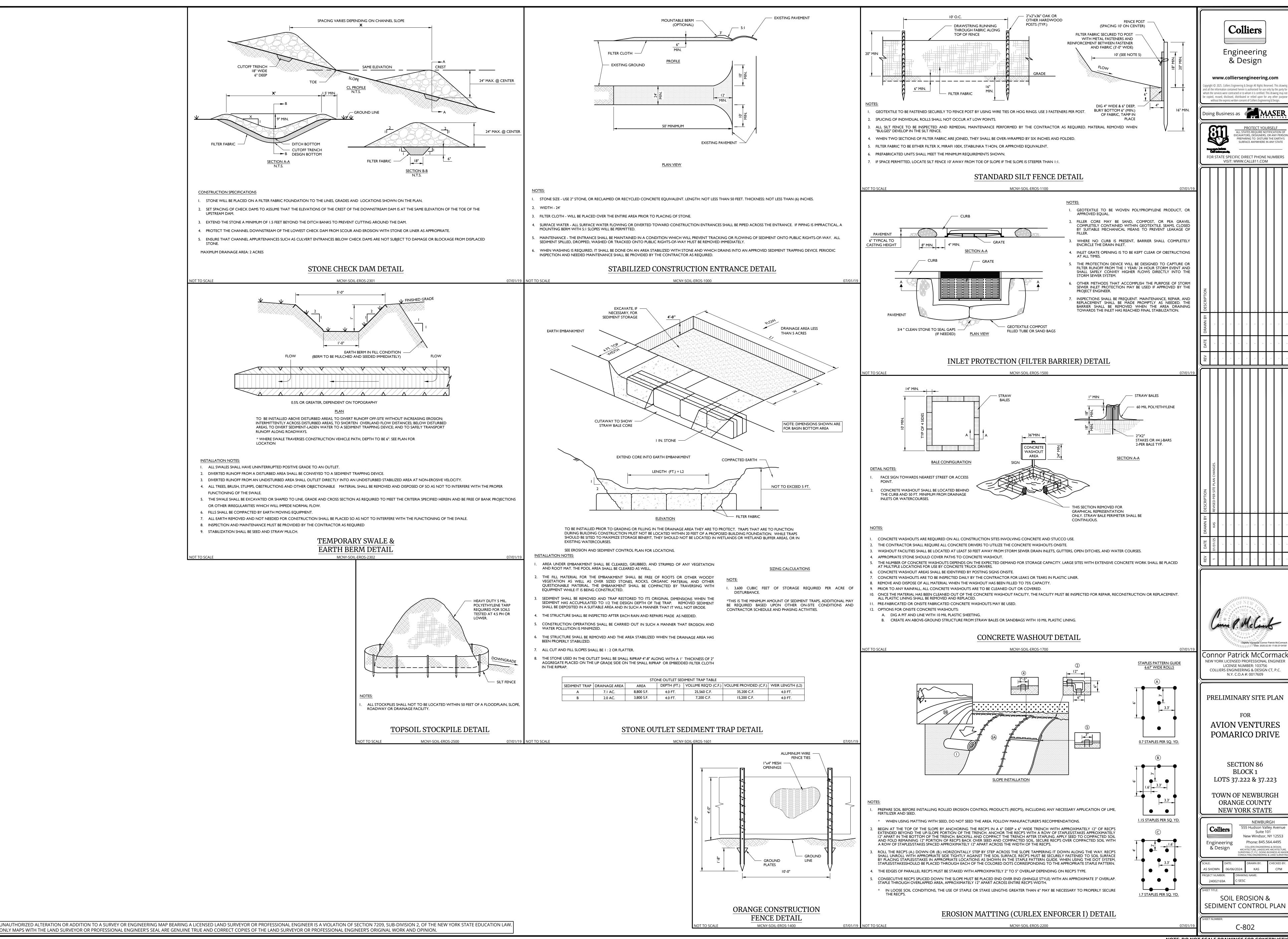
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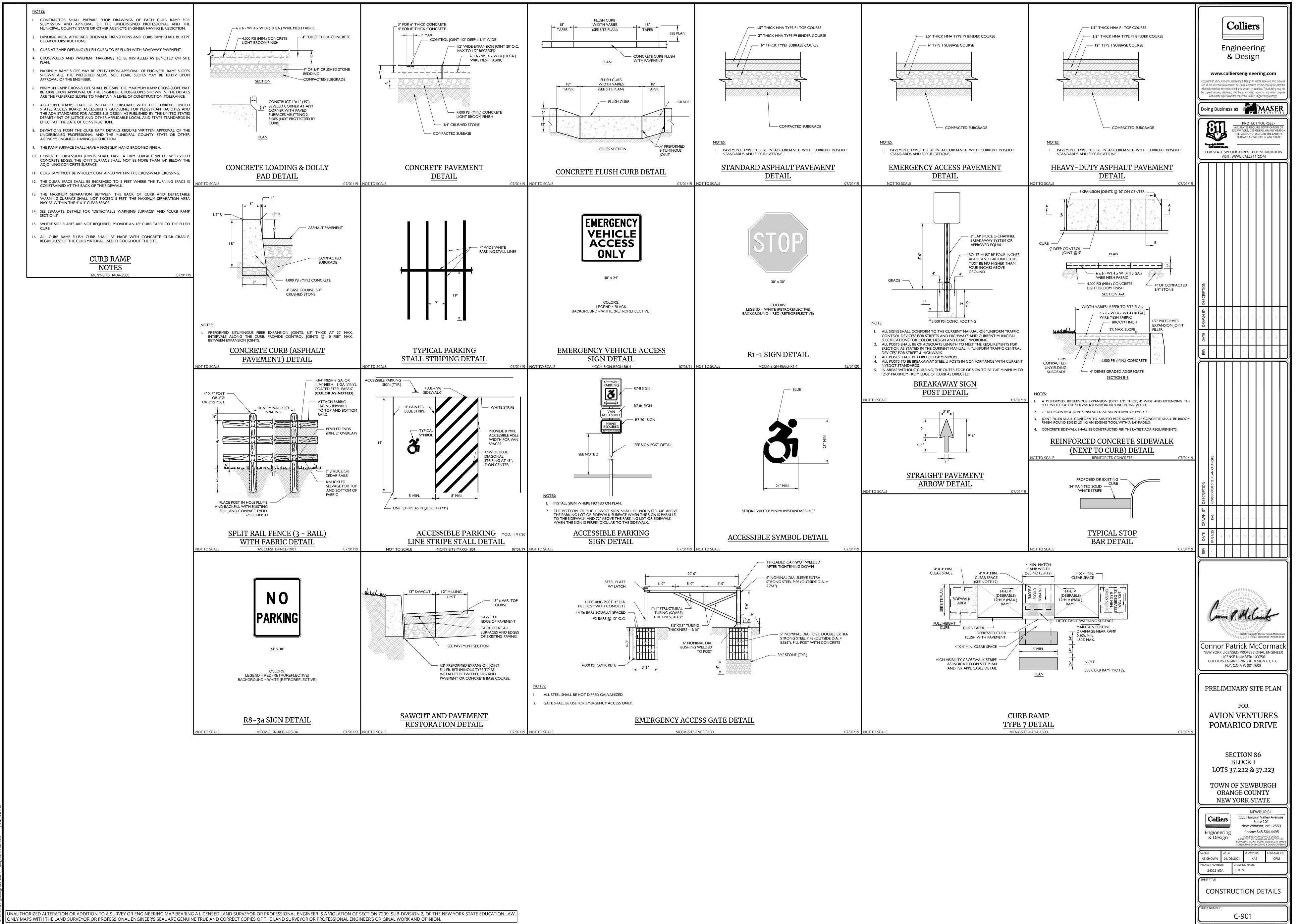
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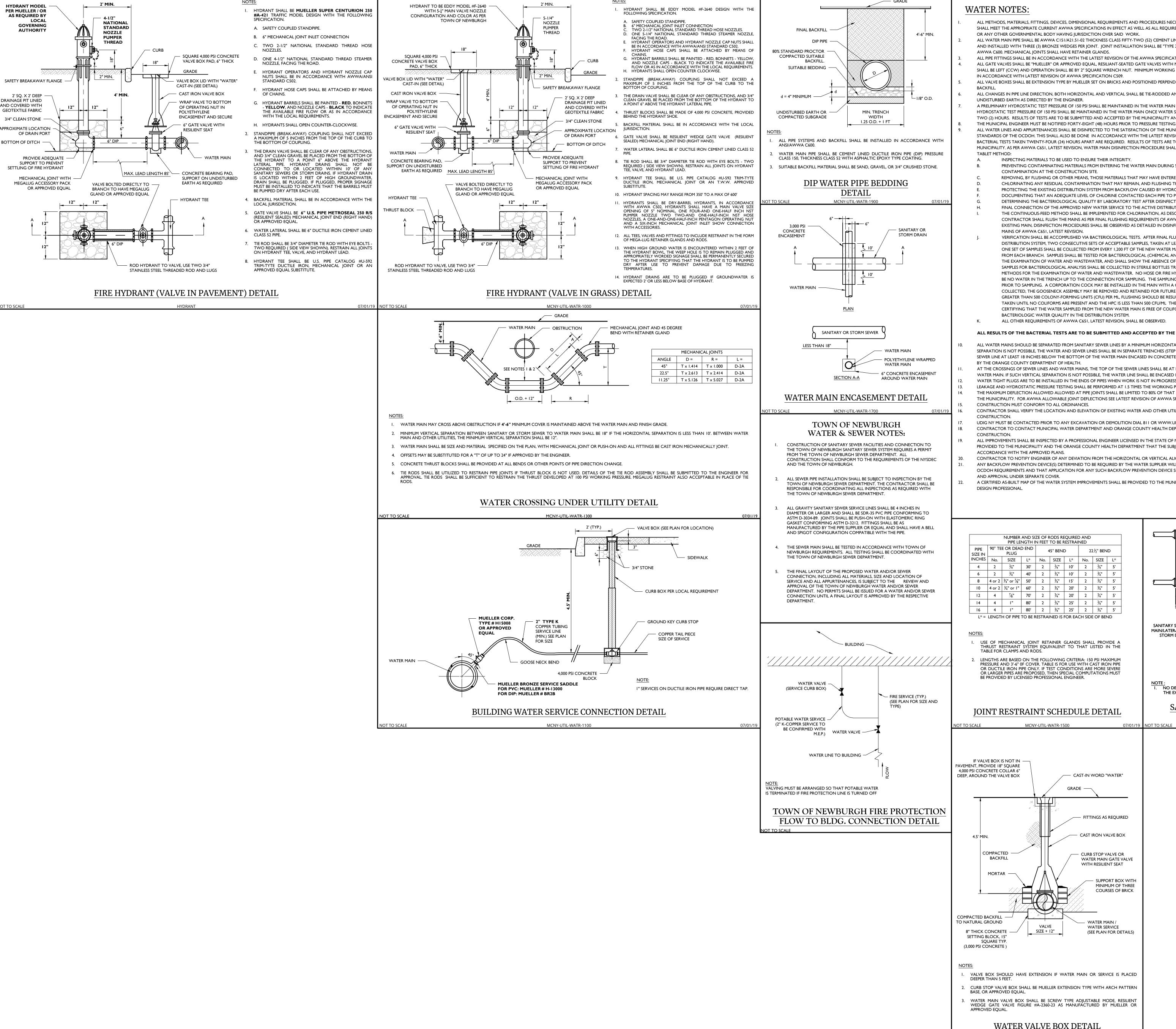
ET TITLE:

SOIL EROSION &
SEDIMENT CONTROL PLAN

C-801

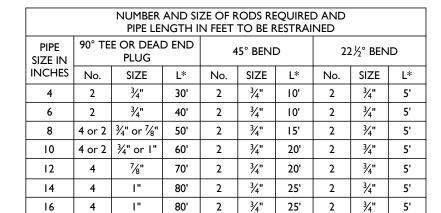






WATER NOTES:

- ALL METHODS, MATERIALS, FITTINGS, DEVICES, DIMENSIONAL REQUIREMENTS AND PROCEDURES NECESSARY TO COMPLETE THE WORK SHOWN HEREON SHALL MEET THE APPROPRIATE CURRENT AWWA SPECIFICATIONS IN EFFECT AS WELL AS ALL REQUIREMENTS DEEMED APPLICABLE BY THE MUNICIPALITY OR ANY OTHER GOVERNMENTAL BODY HAVING JURISDICTION OVER SAID WORK
- ALL WATER MAIN PIPE SHALL BE AWWA C151/A21.51-02 THICKNESS CLASS FIFTY-TWO (52) CEMENT LINED DUCTILE IRON PUSH-ON (RUBBER GASKET) TYPE; AND INSTALLED WITH THREE (3) BRONZE WEDGES PER JOINT. JOINT INSTALLATION SHALL BE "TYPE 2" AS PRESCRIBED IN THE LATEST REVISION OF
- AWWA C600. MECHANICAL JOINTS SHALL HAVE RETAINER GLANDS.
- ALL PIPE FITTINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE AWWA SPECIFICATION C153/A21.53-00. ALL GATE VALVES SHALL BE "MUELLER" OR APPROVED EQUAL, RESILIANT-SEATED GATE VALVES WITH MECHANICAL JOINT CONNECTIONS. OPENING
- SHALL BE LEFT (CCW) AND OPERATION SHALL BE BY 2" SQUARE WRENCH NUT. MINIMUM WORKING PRESSURE SHALL BE 250 PSI. GATE VALVES ARE TO BE IN ACCORDANCE WITH LATEST REVISION OF AWWA SPECIFICATION C509. ALL VALVE BOXES SHALL BE EXTENSION TYPE BY MUELLER SET ON BRICKS AND POSITIONED PERPENDICULAR TO THE PIPE AND ON COMPACTED
- ALL CHANGES IN PIPE LINE DIRECTION, BOTH HORIZONTAL AND VERTICAL SHALL BE TIE-RODDED AND THRUST BLOCKED WITH CONCRETE AGAINST UNDISTURBED EARTH AS DIRECTED BY THE ENGINEER.
- A PRELIMINARY HYDROSTATIC TEST PRESSURE OF 150 PSI SHALL BE MAINTAINED IN THE WATER MAIN FOR A PERIOD OF THIRTY (30) MINUTES AND A FINAL HYDROSTATIC TEST PRESSURE OF 150 PSI SHALL BE MAINTAINED IN THE WATER MAIN ONCE WATER SERVICES ARE INSTALLED FOR A MINIMUM PERIOD OF TWO (2) HOURS. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY AND THE ORANGE COUNTY DEPARTMENT OF HEALTH.
- ALL WATER LINES AND APPURTENANCES SHALL BE DISINFECTED TO THE SATISFACTION OF THE MUNICIPALITY, AND IN ACCORDANCE WITH THE STANDARDS OF THE OCDOH. THIS SHALL ALSO BE DONE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C651. A MINIMUM OF TWO (2) BACTERIAL TESTS TAKEN TWENTY-FOUR (24) HOURS APART ARE REQUIRED. RESULTS OF TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY. AS PER AWWA C651, LATEST REVISION, WATER MAIN DISINFECTION PROCEDURE SHALL, GENERALLY, BE AS FOLLOWS, EXCLUDING THE
- INSPECTING MATERIALS TO BE USED TO ENSURE THEIR INTEGRITY. PREVENTING CONTAMINATING MATERIALS FROM ENTERING THE WATER MAIN DURING STORAGE, CONSTRUCTION, OR REPAIR AND NOTING POTENTIAL
- CONTAMINATION AT THE CONSTRUCTION SITE. REMOVING, BY FLUSHING OR OTHER MEANS, THOSE MATERIALS THAT MAY HAVE ENTERED THE WATER MAIN.
- CHLORINATING ANY RESIDUAL CONTAMINATION THAT MAY REMAIN, AND FLUSHING THE CHLORINATED WATER FROM THE MAIN. PROTECTING THE EXISTING DISTRIBUTION SYSTEM FROM BACKFLOW CAUSED BY HYDROSTATIC PRESSURE TEST AND DISINFECTION PROCEDURES.
- DOCUMENTING THAT AN ADEQUATE LEVEL OF CHLORINE CONTACTED EACH PIPE TO PROVIDE DISINFECTION.
- DETERMINING THE BACTERIOLOGICAL QUALITY BY LABORATORY TEST AFTER DISINFECTION. FINAL CONNECTION OF THE APPROVED NEW WATER SERVICE TO THE ACTIVE DISTRIBUTION SYSTEM.
- THE CONTINUOUS-FEED METHOD SHALL BE IMPLEMENTED FOR CHLORINATION, AS DESCRIBED IN AWWA C651, LATEST REVISION. AFTER CHLORINATION, THE CONTRACTOR SHALL FLUSH THE MAINS AS PER FINAL FLUSHING REQUIREMENTS OF AWWA C651, LATEST REVISION. WHEN CUTTING INTO OR REPAIRING AN EXISTING MAIN, DISINFECTION PROCEDURES SHALL BE OBSERVED AS DETAILED IN DISINFECTION PROCEDURES WHEN CUTTING INTO OR REPAIRING EXISTING
- VERIFICATION SHALL BE ACCOMPLISHED VIA BACTERIOLOGICAL TESTS. AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN AT LEAST 24 HR APART, SHALL BE COLLECTED FROM THE NEW MAIN. AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED FROM EVERY 1,200 FT OF THE NEW WATER MAIN, PLUS ONE SET FROM THE END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH. SAMPLES SHALL BE TESTED FOR BACTERIOLOGICAL (CHEMICAL AND PHYSICAL) QUALITY IN ACCORDANCE WITH STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, AND SHALL SHOW THE ABSENCE OF COLIFORM ORGANISMS AND THE PRESENCE OF A CHLORINE RESIDUAL. SAMPLES FOR BACTERIOLOGICAL ANALYSIS SHALL BE COLLECTED IN STERILE BOTTLES TREATED WITH SODIUM THIOSULFATE, AS REQUIRED BY STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER. NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF SAMPLES. THERE SHOULD BE NO WATER IN THE TRENCH UP TO THE CONNECTION FOR SAMPLING. THE SAMPLING PIPE MUST BE DEDICATED AND CLEAN AND DISINFECTED AND FLUSHED PRIOR TO SAMPLING. A CORPORATION COCK MAY BE INSTALLED IN THE MAIN WITH A COPPER-TUBE GOOSENECK ASSEMBLY. AFTER SAMPLES HAVE BEEN COLLECTED, THE GOOSENECK ASSEMBLY MAY BE REMOVED AND RETAINED FOR FUTURE USE. IF SAMPLES RESULTS FROM THE LAB INDICATE A MEASURED HPC GREATER THAN 500 COLONY-FORMING UNITS (CFU) PER ML, FLUSHING SHOULD BE RESUMED AND ANOTHER COLIFORM AND HPC SET OF SAMPLES SHOULD BE TAKEN UNTIL NO COLIFORMS ARE PRESENT AND THE HPC IS LESS THAN 500 CFU/ML THE RECORD OF COMPLIANCE SHALL BE THE BACTERIOLOGICAL TEST RESULTS CERTIFYING THAT THE WATER SAMPLED FROM THE NEW WATER MAIN IS FREE OF COLIFORM BACTERIA CONTAMINATION AND IS EQUAL TO OR BETTER THAN THE
- BACTERIOLOGIC WATER QUALITY IN THE DISTRIBUTION SYSTEM. ALL OTHER REQUIREMENTS OF AWWA C651, LATEST REVISION, SHALL BE OBSERVED.
- ALL RESULTS OF THE BACTERIAL TESTS ARE TO BE SUBMITTED AND ACCEPTED BY THE MUNICIPALITY AND ORANGE COUNTY DEPARTMENT OF HEALTH.
- ALL WATER MAINS SHOULD BE SEPARATED FROM SANITARY SEWER LINES BY A MINIMUM HORIZONTAL DISTANCE OF 10 FEET. IF SUCH HORIZONTAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN ENCASED IN CONCRETE OR WITH SUCH SEPARATION EXPRESSLY APPROVED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH
- AT THE CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN. IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE WATER LINE SHALL BE ENCASED IN CONCRETE. WATER TIGHT PLUGS ARE TO BE INSTALLED IN THE ENDS OF PIPES WHEN WORK IS NOT IN PROGRESS LEAKAGE AND HYDROSTATIC PRESSURE TESTING SHALL BE PERFORMED AT 1.5 TIMES THE WORKING PRESSURE OR A MINIMUM TEST PRESSURE OF 150 PSI.
- THE MAXIMUM DEFLECTION ALLOWED ALLOWED AT PIPE JOINTS SHALL BE LIMITED TO 80% OF THAT ALLOWED BY AWWA OR IN ACCORDANCE WITH THE MUNICIPALITY. FOR AWWA ALLOWABLE JOINT DEFLECTIONS SEE LATEST REVISION OF AWWA SPECIFICATION C600.
- CONSTRUCTION MUST CONFORM TO ALL ORDINANCES. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING WATER AND OTHER UTILITIES PRIOR TO THE COMMENCEMENT OF
- UDIG NY MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION DIAL 811 OR WWW.UDIGNY.ORG. CONTRACTOR TO CONTACT MUNICIPAL WATER DEPARTMENT AND ORANGE COUNTY HEALTH DEPARTMENT. AT LEAST 2 DAYS PRIOR TO
- CONSTRUCTION. ALL IMPROVEMENTS SHALL BE INSPECTED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK AND CERTIFICATION SHALL BE
- PROVIDED TO THE MUNICIPALITY AND THE ORANGE COUNTY HEALTH DEPARTMENT THAT THE SUBJECT IMPROVEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLANS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DEVIATION FROM THE HORIZONTAL OR VERTICAL ALIGNMENTS WITH REGARDS TO EXISTING UTILITIES.
- ANY BACKFLOW PREVENTION DEVICE(S) DETERMINED TO BE REQUIRED BY THE WATER SUPPLIER WILL BE DESIGNED BY OTHERS IN ACCORDANCE WITH OCDOH REQUIREMENTS AND THAT APPLICATION FOR ANY SUCH BACKFLOW PREVENTION DEVICE SHALL BE SUBMITTED TO THE OCDOH FOR REVIEW AND APPROVAL UNDER SEPARATE COVER.
- A CERTIFIED AS-BUILT MAP OF THE WATER SYSTEM IMPROVEMENTS SHALL BE PROVIDED TO THE MUNICIPALITY'S WATER DEPARTMENT BY A LICENSED DESIGN PROFESSIONAL.



L* = LENGTH OF PIPE TO BE RESTRAINED IS FOR EACH SIDE OF BEND

USE OF MECHANICAL JOINT RETAINER GLANDS SHALL PROVIDE A THRUST RESTRAINT SYSTEM EQUIVALENT TO THAT LISTED IN THE TABLE FOR CLAMPS AND RODS.

LENGTHS ARE BASED ON THE FOLLOWING CRITERIA: 150 PSI MAXIMUM PRESSURE AND 3'-6" OF COVER. TABLE IS FOR USE WITH CAST IRON PIPE OR DUCTILE IRON PIPE ONLY. IF TEST CONDITIONS ARE MORE SEVERE OR LARGER PIPES ARE PROPOSED. THEN SPECIAL COMPUTATIONS MUS $^{ ext{T}}$ BE PROVIDED BY LICENSED PROFESSIONAL ENGINEER.

WATER VALVE BOX DETAIL

BACKFILL

MORTAR -

07/01/19 NOT TO SCALE

CAST-IN WORD "WATER"

FITTINGS AS REQUIRED

- CAST IRON VALVE BOX

CURB STOP VALVE OR

WATER MAIN /

WATER SERVICE

(SEE PLAN FOR DETAILS)

WATER MAIN GATE VALVE WITH RESILIENT SEAT

> - SUPPORT BOX WITH MINIMUM OF THREE COURSES OF BRICK

GRADE -

NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE DEPARTMENT OF HEALTH

SANITARY/STORM SEWER-WATER MAIN SEPARATION DETAIL

OR LATERAL EOUAL **EQUAL** FULL UNCUT LENGTH OF PIPE VERTICAL SEPARATION WATER MAIN/LATE SANITARY SEWER -MAIN/LATERAL OR STORM DRAIN HORIZONTAL SEPARATION

WATER MAIN

Connor Patrick McCormack

SANITARY SEWER

MAIN/LATERAL OR

STORM DRAIN

N.Y. C.O.A #: 0017609 PRELIMINARY SITE PLAN

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SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH **ORANGE COUNTY** NEW YORK STATE

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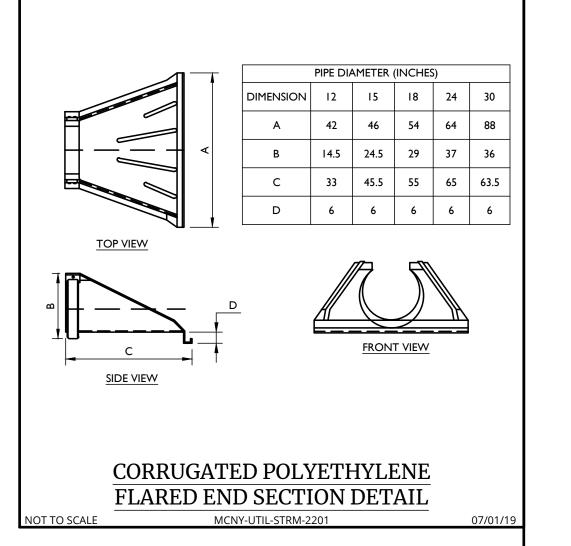
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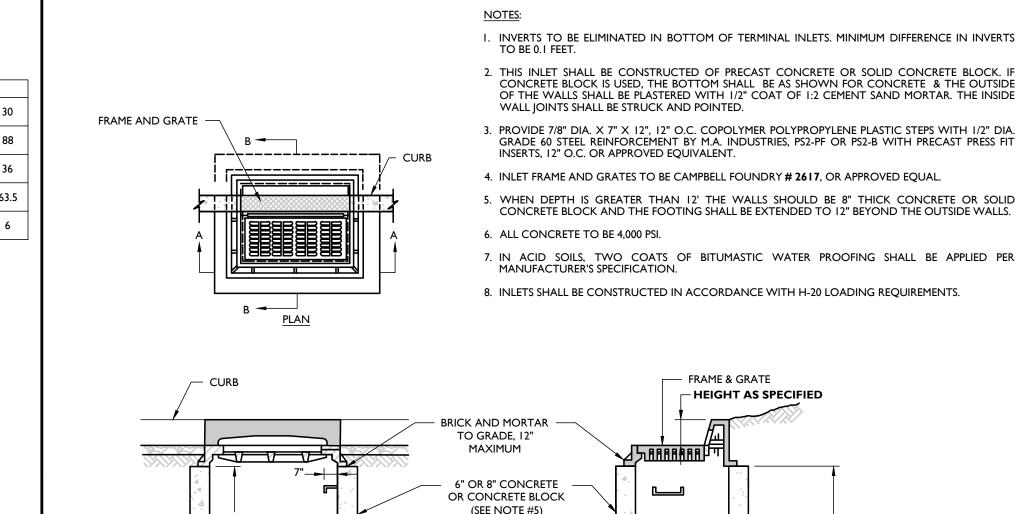
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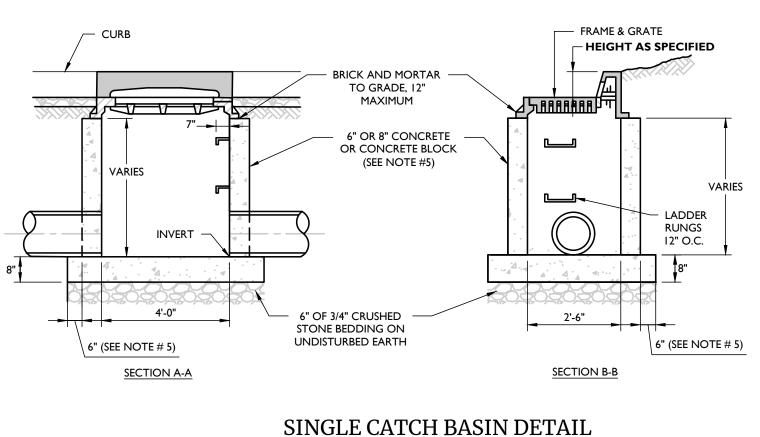
CONSTRUCTION DETAILS

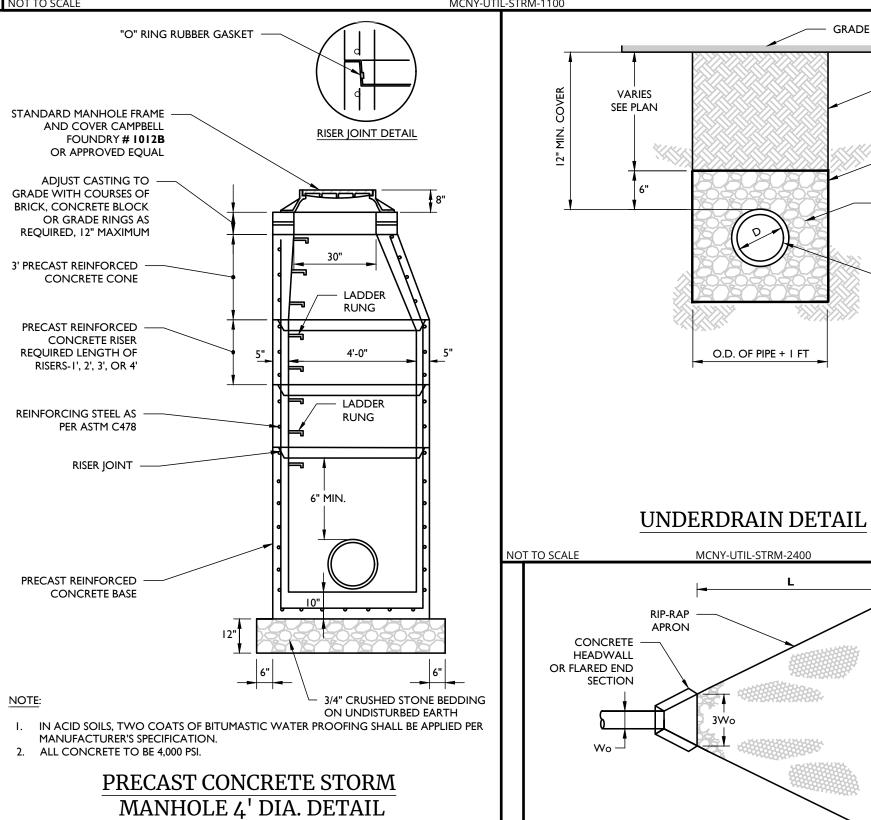
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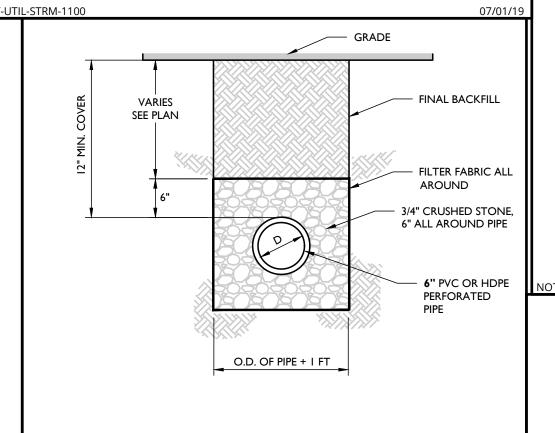
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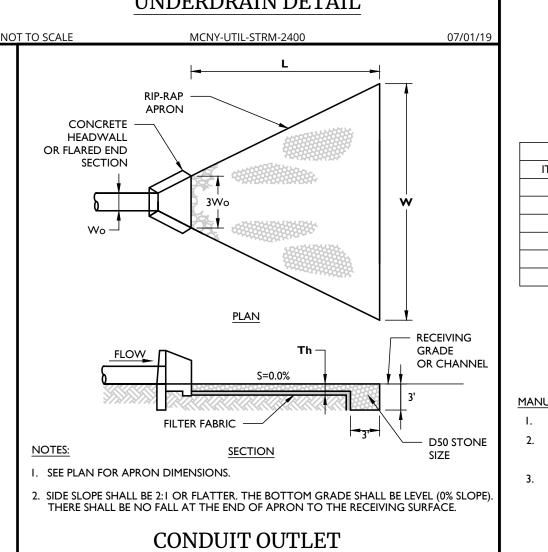




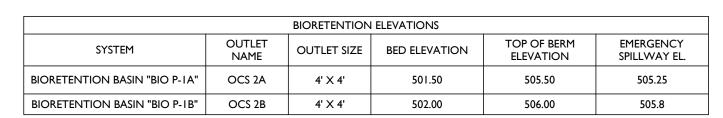


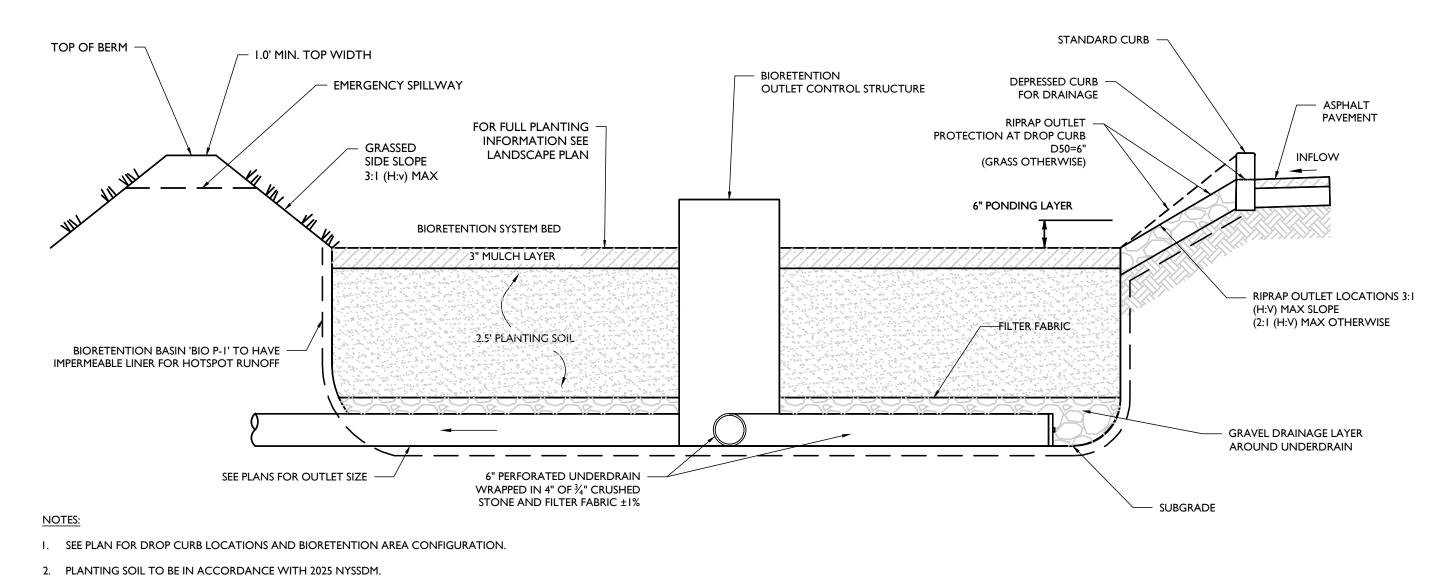




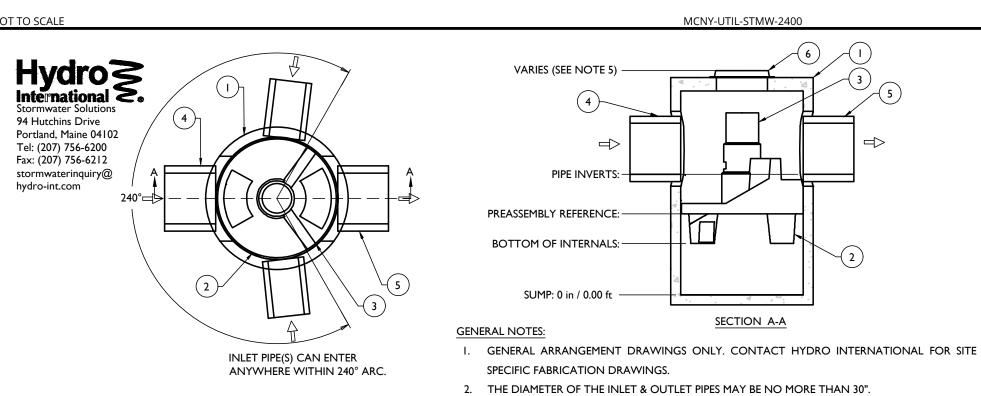


PROTECTION DETAIL





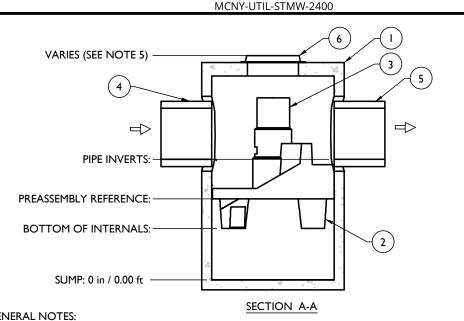
BIORETENTION SYSTEM CROSS SECTION DETAIL



PART LIST DESCRIPTION I.D. PRECAST MANHOLE 2 LEDGER SUPPORT SEPARATION MODULE PRODUCT SPECIFICATIONS:

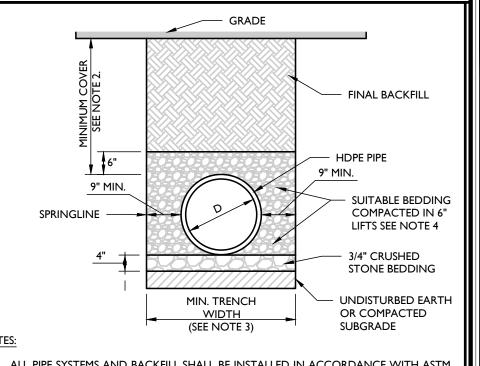
3. CONTRACTOR MUST PROVIDE SUBMITTAL OF PROPOSED BIORETENTION SOIL FOR APPROVAL

- 4 INLET PIPE 5 OUTLET PIPE 6 FRAME AND COVER
- MANUFACTURES NOTES: MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE. 2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE
- ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE. 3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.



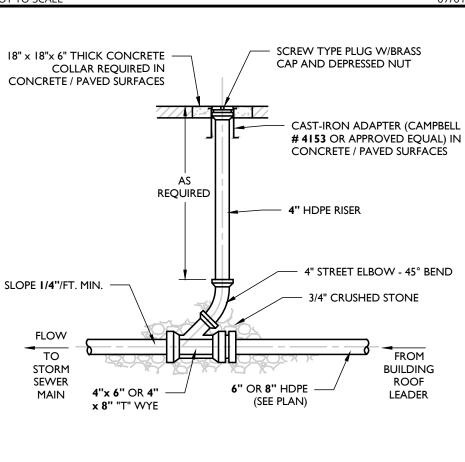
- 2. THE DIAMETER OF THE INLET & OUTLET PIPES MAY BE NO MORE THAN 30".
- 3. MULTIPLE INLET PIPES POSSIBLE (REFER TO PROJECT PLANS). 4. INLET/OUTLET PIPE ANGLE CAN VARY TO ALIGN WITH DRAINAGE NETWORK (REFER TO
- 5. PEAK FLOW RATE AND MINIMUM HEIGHT LIMITED BY AVAILABLE COVER AND PIPE DIAMETER.
- 6. LARGER SEDIMENT STORAGE CAPACITY MAY BE PROVIDED WITH A DEEPER SUMP DEPTH. A. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM
- B. THE TREATMENT SYSTEM SHALL FIT WITHIN THE LIMITS OF EXCAVATION (AREA AND DEPTH) AS SHOWN IN THE PROJECT PLANS AND WILL NOT EXCEED THE DIMENSIONS FOR THE DESIGN FLOW RATES SPECIFIED HEREIN.
- C. THE TREATMENT SYSTEM SHALL REMOVE GREATER THAN OR EQUAL TO 90% OF TSS BASED ON THE TARGET PARTICLE SIZE (TPS) OF 106 MICRONS AND/OR 80% OF TSS BASED ON THE TPS OF 230 MICRONS AT 2.2 CFS AND 3.8 CFS, RESPECTIVELY.
- D. THE TREATMENT SYSTEM SHALL CONVEY THE PEAK ON-LINE FLOW RATES OF UP TO 32 CFS WITHOUT CAUSING UPSTREAM SURCHARGE CONDITIONS. FULL-SCALE INDEPENDENT LABORATORY SCOUR TESTING SHALL DEMONSTRATE EFFLUENT CONTROL OF LESS THAN OR EQUAL TO 5 Mg/L FOR ALL FLOWS UP TO 200% OF MTFR-106.

E. THE TREATMENT SYSTEM SHALL BE CAPABLE OF CAPTURING AND RETAINING FINE SILT AND SAND SIZE PARTICLES. ANALYSIS OF CAPTURED SEDIMENT FROM FULL-SCALE FIELD INSTALLATIONS SHALL DEMONSTRATE PARTICLE SIZES PREDOMINATELY IN THE 20-MICRON RANGE HYDRO INTERNATIONAL 6' FIRST DEFENSE DETAIL



- ALL PIPE SYSTEMS AND BACKFILL SHALL BE INSTALLED IN ACCORDANCE WITH ASTM MINIMUM COVER FOR HDPE PIPES IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR UP TO 60" DIAMETER PIPE. PIPE COVER IS MEASURED FROM TOP OF PIPE TO THE BOTTOM OF FLEXIBLE PAVEMENT, OR TO THE TOP OF RIGID PAVEMENT, OR TO THE
- MINIMUM TRENCH WIDTH PER MANUFACTURER'S RECOMMENDATIONS. 4. SUITABLE BEDDING MATERIAL SHALL BE SAND, WELL GRADED GRAVEL < 2", OR 3/4
- SUITABLE FINAL BACKFILL MATERIAL SHALL BE SITE SOILS, CLEAN FILL, OR ITEM 4 STONE COMPACTED IN MAX. 9" LIFTS.
- STONES LARGER THAN 2" FOUND IN THE TRENCH SHALL BE REMOVED FOR A DEPTH OF AT LEAST 4" BELOW THE PIPE.
- FOR INSTALLATION IN PAVEMENT, REFER TO THE APPLICABLE PAVEMENT DETAIL TO ESTABLISH FINAL GRADE. BACKFILL REQUIREMENTS BEYOND THE DEPTH OF THE PAVEMENT DETAIL SHALL BE IN ACCORDANCE WITH THIS DETAIL.

HDPE STORM PIPE **BEDDING DETAIL**



ROOF LEADER

CLEANOUT DETAIL

SECTION 86

LOTS 37.222 & 37.223 TOWN OF NEWBURGH

ORANGE COUNTY

BLOCK 1

Connor Patrick McCormack

NEW YORK LICENSED PROFESSIONAL ENGINEER LICENSE NUMBER: 103756

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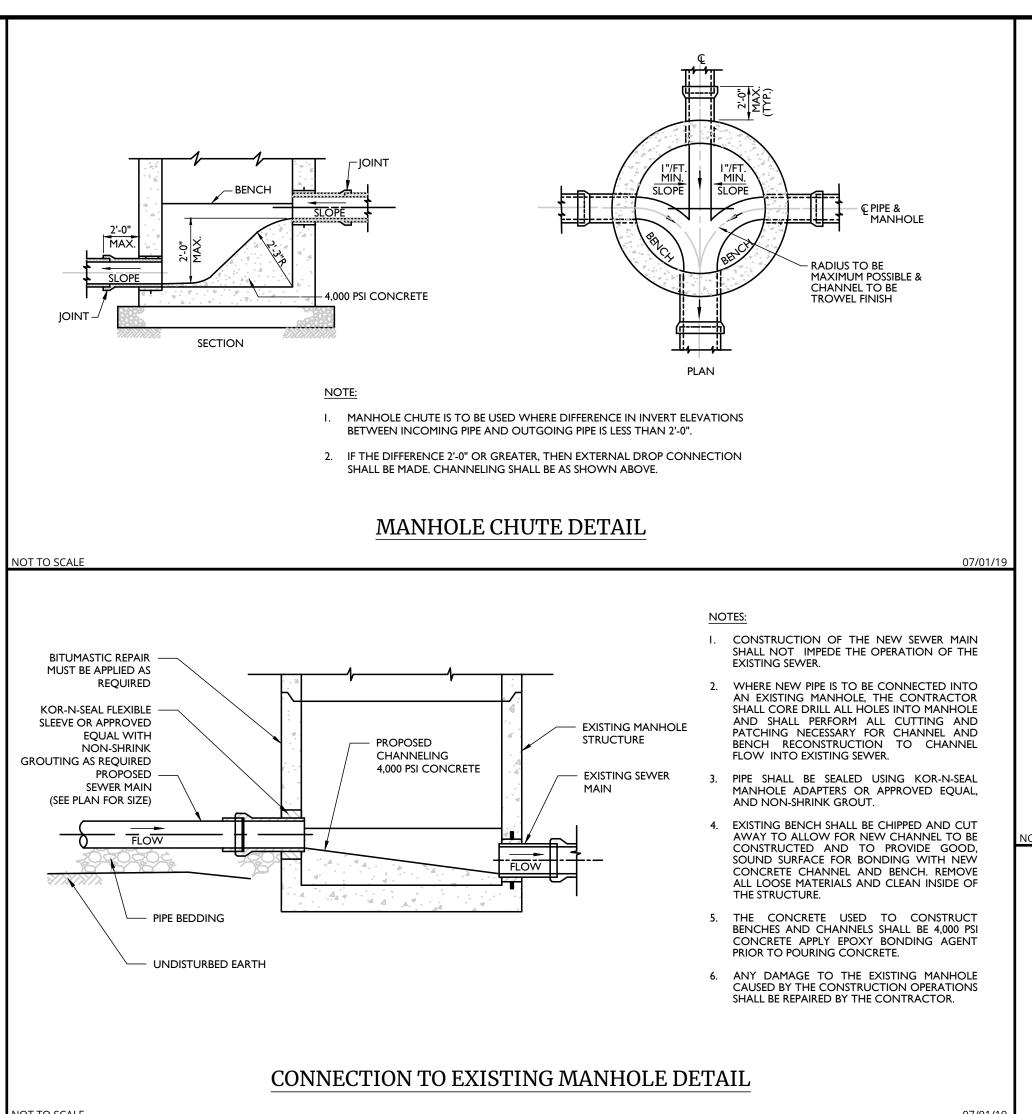
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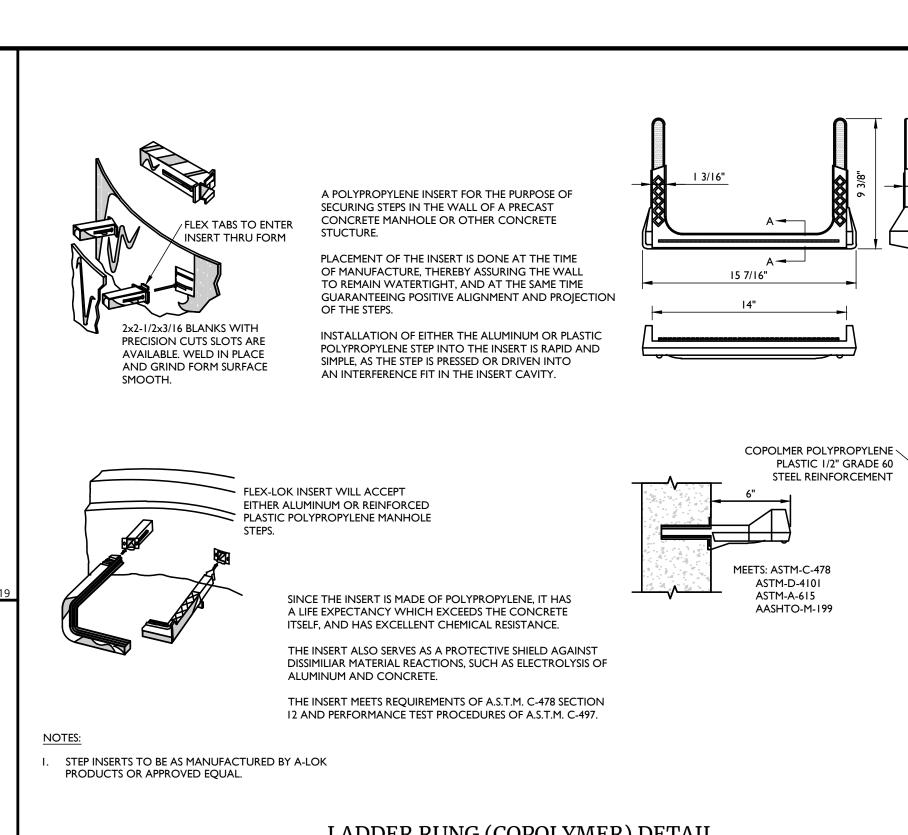
CONSTRUCTION DETAILS

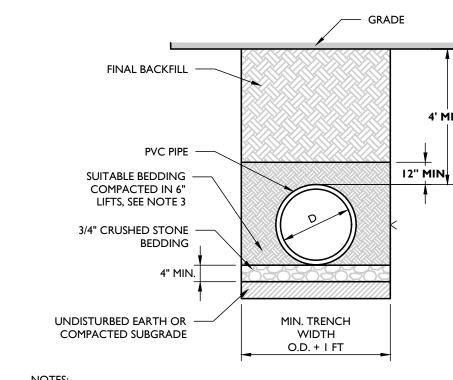
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I. PUMP STATION DESIGN IS PENDING.





. ALL PVC GRAVITY PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH

- 2. GRAVITY SANITARY PIPE SHALL BE PVC SDR 35 PER ASTM D3034 OR AS REQUIRED BY THE GOVERNING AUTHORITY.
- 3. SUITABLE BEDDING MATERIAL SHALL BE COARSE SAND OR $\frac{3}{4}$ " CRUSHED STONE.



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FOR **AVION VENTURES** POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE

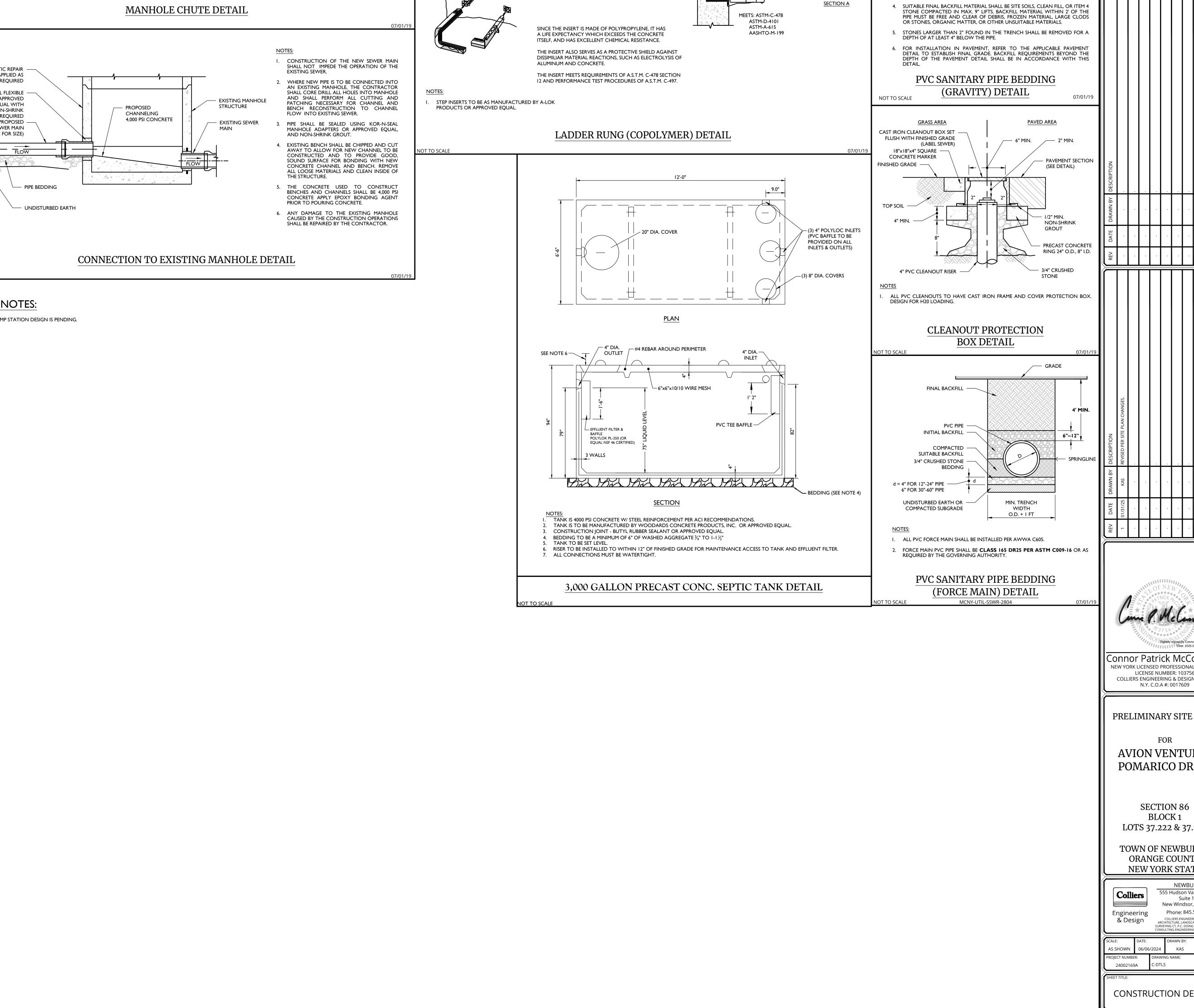
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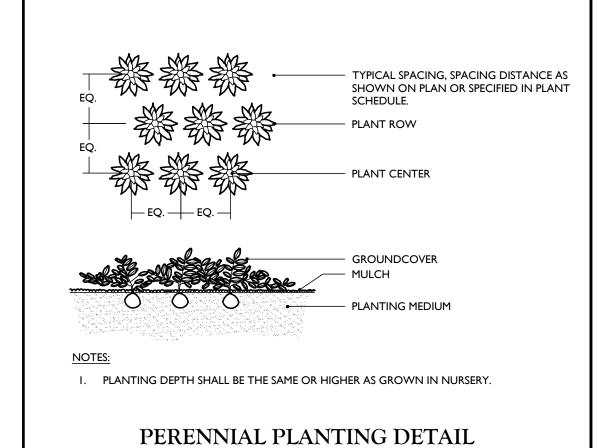
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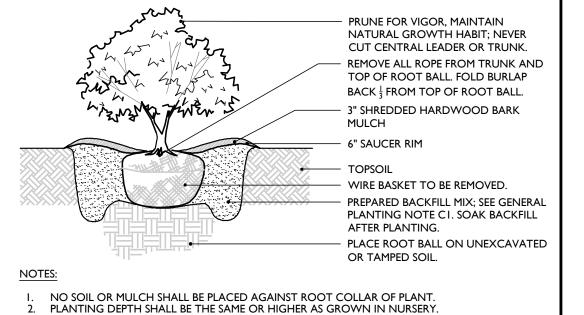
CONSTRUCTION DETAILS

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

C-904







SHRUB PLANTING DETAIL

GENERAL PLANTING NOTES

- I. THIS PLAN SHALL BE USED FOR LANDSCAPE PLANTING PURPOSES ONLY. EXAMINE ALL ENGINEERING DRAWINGS AND FIELD CONDITIONS FOR SPECIFIC LOCATIONS OF UTILITIES AND STRUCTURES AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR LOCATION CONFLICTS PRIOR TO PLANTING INSTALLATION.
- 2. THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY LOCATION OF ALL UTILITIES ON SITE PRIOR TO CONSTRUCTION.
- 3. ALL PLANT MATERIAL SHALL CONFORM TO GUIDELINES AS SET FORTH IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S STANDARD FOR NURSERY STOCK OR THE PLANT MATERIAL WILL BE UNACCEPTABLE. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY, SIZE AND BE CERTIFIED DISEASE AND INSECT FREE. THE OWNER AND/OR THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL ON SITE PRIOR TO INSTALLATION.
- 4. NO PLANT SUBSTITUTIONS SHALL BE PERMITTED WITH REGARD TO SIZE, SPECIES, OR VARIETY WITHOUT WRITTEN PERMISSION OF THE LANDSCAPE CONSULTANT. WRITTEN PROOF OF PLANT MATERIAL UNAVAILABILITY MUST BE DOCUMENTED.
- 5. THE LOCATION OF ALL PLANT MATERIAL INDICATED ON THE LANDSCAPE PLANS ARE APPROXIMATE. THE FINAL LOCATION OF ALL PLANT MATERIAL AND PLANTING BED LINES SHALL BE DETERMINED IN THE FIELD UNDER THE DIRECTION OF THE LANDSCAPE
- 6. ALL STREET TREES AND SHADE TREES PLANTED NEAR PEDESTRIAN OR VEHICULAR ACCESS SHOULD NOT BE BRANCHED LOWER THAN 7'-0" ABOVE GRADE. ALL PLANT MATERIAL LOCATED WITHIN SIGHT TRIANGLE EASEMENTS SHALL NOT EXCEED A MATURE HEIGHT OF 30" ABOVE THE ELEVATION OF THE ADJACENT CURB. ALL STREET TREES PLANTED IN SIGHT TRIANGLE EASEMENTS SHALL BE PRUNED TO NOT HAVE BRANCHES BELOW 10'-0".
- 7. THE PLANTING PLAN SHALL TAKE PRECEDENCE OVER THE PLANT SCHEDULE SHOULD ANY PLANT QUANTITY DISCREPANCIES OCCUR.
- 8. ALL PLANT MATERIAL SHALL BE PROPERLY INSTALLED IN CONFORMANCE WITH THE TYPICAL PLANTING DETAILS. INSTALL ALL PLANT MATERIAL ON UNDISTURBED GRADE. CUT AND REMOVE IUTE BURLAP FROM TOP ONE-THIRD OF THE ROOT BALL. WIRE BASKETS AND NOT JUTE BURLAP SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING THE PLANT PIT.
- 9. BRANCHES OF DECIDUOUS TREES SHALL BE PRUNED BACK BY NO MORE THAN ONE OUARTER (1/4) TO BALANCE THE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR CHARACTER AND SHAPE. THE CENTRAL LEADER OF TREE SHALL NOT BE
- 10. PROVIDE PLANTING PITS AS INDICATED ON PLANTING DETAILS. BACKFILL PLANTING PITS WITH ONE PART EACH OF TOPSOIL, PEAT MOSS AND PARENT MATERIAL, IF WET SOIL CONDITIONS EXIST THEN PLANTING PITS SHALL BE EXCAVATED AN ADDITIONAL 12" AND FILLED WITH CRUSHED STONE OR UNTIL FREE DRAINING.
- II. ALL PLANT MATERIAL SHALL BEAR THE SAME RELATION TO FINISHED GRADE AS IT BORE TO EXISTING GRADE AT NURSERY.
- 12. OPTIMUM PLANTING TIME: DECIDUOUS APRIL I TO JUNE I & OCTOBER 15 TO NOVEMBER 30. CONIFEROUS - APRIL I TO JUNE I & SÉPTEMBER I TO NOVEMBER I PLANTING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL FROM THE LANDSCAPE CONSULTANT.
- 13. NEWLY INSTALLED PLANT MATERIAL SHALL BE WATERED AT THE TIME OF INSTALLATION. REGULAR WATERING SHALL BE PROVIDED TO ENSURE THE ESTABLISHMENT GROWTH AND SURVIVAL OF ALL PLANTS WATERING AMOUNTS SHOULD BE ADJUSTED AS RAIN EVENTS OCCUR. WATERING AFTER THE INITIAL 4 WEEKS SHALL BE ADJUSTED BASED ON SEASONAL CONDITIONS. WATERING SHALL NOT TAKE PLACE DURING THE HOTTEST POINT OF THE DAY.
- 14. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR TWO YEARS AFTER THE DATE OF FINAL ACCEPTANCE. ANY PLANT MATERIAL THAT DIES WITHIN THAT TIME PERIOD SHALL BE REMOVED, INCLUDING THE STUMP, AND REPLACED BY A TREE OF SIMILAR SIZE AND SPECIES AT NO EXPENSE TO THE OWNER.
- 15. THE LANDSCAPE CONTRACTOR SHALL PROVIDE A MINIMUM 4" LAYER OF TOPSOIL IN ALL LAWN AREAS AND A MINIMUM OF 12" OF TOPSOIL IN ALL PLANTING AREAS. A FULL SOIL ANALYSIS IS RECOMMENDED AFTER CONSTRUCTION AND PRIOR TO PLANTING TO DETERMINE THE EXTENT OF SOIL AMENDMENT REQUIRED. SOIL PH SHOULD BE 5.5-6.5.
- 16. ALL DISTURBED LAWN AREAS SHALL BE STABILIZED WITH SEED AS INDICATED ON THE LANDSCAPE PLANS. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH THE GENERAL SEEDING NOTES ON THIS SHEET, ALL DISTURBED LAWN AREAS SHALL BE TOPSOILED, LIMED, FERTILIZED AND FINE GRADED PRIOR TO LAWN INSTALLATION.
- 17. ALL PLANTING BEDS SHALL RECEIVE 3" OF SHREDDED HARDWOOD BARK MULCH.
- 18. ALL SHRUB MASSES SHALL BE PLANTED IN CONTINUOUS MULCHED BEDS. 19. ALL PLANTING DEBRIS (WIRE, TWINE, RUBBER HOSE, BACKFILL ETC.) SHALL BE REMOVED FROM THE SITE AFTER PLANTING IS COMPLETE. PROPERTY IS TO BE LEFT IN A NEAT ORDERLY CONDITION IN ACCORDANCE WITH ACCEPTED PLANTING

GENERAL SEEDING NOTES

I. TEMPORARY SEEDING: REFER TO SOIL EROSION AND SEDIMENT CONTROL PLANS. 2. PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL. OPTIMUM SEEDING DATES ARE BETWEEN APRIL I AND MAY 31: AND AUGUST 16 AND OCTOBER 15.

SEEDING OUTSIDE OF THE OPTIMUM DATES SHALL NOT BE CONDUCTED WITH OUT PRIOR APPROVAL.

LAWN AREA SEED MIXTURE
PT 769 R&R ECO-TURF MIX W/ MICROCLOVER

SEEDING RATE: 300 LBS/ACRE

SEEDING RATE: 20-40 LBS PER ACRE, OR 0.5 LB/I,000 SQ. FT. WITH A COVER CROP. FOR A COVER CROP USE ONE OF THE FOLLOWING :GRAIN RYE (I SEP TO 30 APR; 30 LBS/ACRE), JAPANESE MILLET (I MAY TO 31 AUG; 10 LBS/ACRE), OR BARNYARD GRASS (1 MAY TO 31 AUG; 10 LBS/ACRE).

- 20% DEERTONGUE (PANICUM CLANDESTINUM, TIOGA) 20% ALKALIGRASS, FULTS (PUCCINELLIA DISTANS, FULTS) 18% VIRGINIA WILDRYE, MADISON-NY ECOTYPE (ELYMUS VIRGINICUS) 15% CREEPING BENTGRASS, 'PENNCROSS' (AGROSTIS STOLONIFERA)
- 15% FOWL BLUEGRASS (POA PALUSTRIS) 10% FOX SEDGE, PA ECÔTYPE (CAREX VULPINOIDEA) 1% BLUNT BROOM SEDGE, PA ECOTYPE (CAREX SCOPARIA)

PARTIALLY SHADED AREA ROADSIDE MIX (ERNMX# ERNMX-140 BY ERNST SEEDS OR APPROVED EQUAL)

1% SOFT RUSH (JUNCUS EFFUSUS)

- LITTLE BLUESTEM, (SCHIZACHYRIUM SCOPARIUM) VIRGINIA WILDRYÈ (ELYMUS VIRGINICUS) PURPLE CONEFLOWER (ECHINACEA PURPUREA) BOTTLEBRUSH GRASS (ELYMUS HYSTRIX) PARTRIDGE PEA (CHAMAECRISTA FASCICULATA) BLACKEYED SUSAN (RUDBECKIA HIRTA) OXEYE SUNFLOWER (HELIOPSIS HELIANTHOIDES) GOLDEN ALEXANDERS (ZIZIA AURE) WILD BERGAMOT (MONARDA FISTÚLOSA) MARSH BLAZING STAR (LIATRIS SPICATA) TALL WHITE BEARDTONGUE (PENSTEMON DIGITALIS) BLUE FALSE INDIGO (BAPTISIA AUSTRALIS) THIMBLEWEED (ANEMONE VIRGINIANA) 0.5% **BIENNIAL BEEBLOSSOM (GAURA BIENNIS)** BROWNEYED SUSAN (RUDBECKIA TRILOBA) BUTTERFLY MILKWEED (ASCLEPIAS TUBEROSA BIGLEAF ASTER (ASTER MACROPHYLLUS) HEATH ASTER (ASTER PILOSUS)
- HOARY MOUNTAINMINT (PYĆNANTHEMUM INCANUM) COMMON MILKWEED (ASCLEPIAS SYRIACA) WHITE GOLDENROD (SOLIDAGO BICOLOR) EASTERN COLUMBINE (ASTER NOVAE-ANGLIAE) NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAÉ) ZIGZAG ASTER (ASTER PRENANTHOIDES) APPALACHIAN BEARDTONGUE (PENSTEMON LAEVIGATUS) GRAY GOLDENROD (SOLIDAGO NEMORALIS)

HAIRY BEARDTONGUE (PENSTEMON HIRSUTUS)

EARLY GOLDENROD (SOLIDAGO JUNCEA)

LICORICE SCENTED GOLDENROD (SOLIDAGO ODORA) SEEDING RATE: 20 LBS PER ACRE WITH 30 LBS PER ACRE OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (I JAN TO 31 JUL) OR A GRAIN RYE (I AUG TO 31 DEC). PERMANENT SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE OR APPROVED EQUAL:

OPTIMUM SEEDING DATES ARE IN THE SPRING AND SUMMER (UNTIL SEPTEMBER 1ST).

NATIVE STEEP SLOPE MIX WITH GRAIN OATS
(ERNMX# ERNMX-181-1 BY ERNST SEEDS OR APPROVED EQUAL)

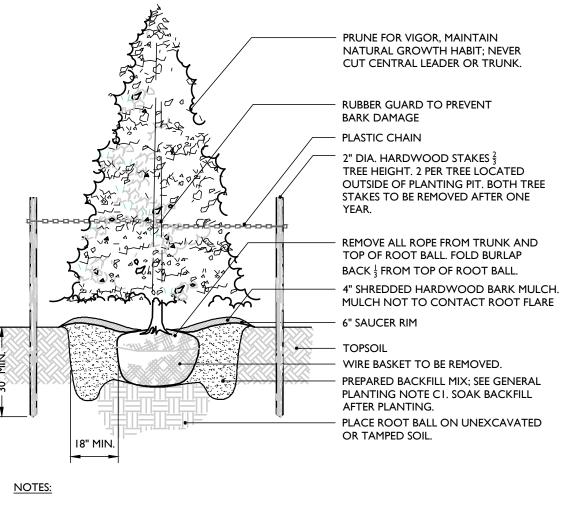
SEEDING RATE: 75 LBS PER ACRE. SPECIES LIST:

- 40.0% OATS, (AVENA SATIVA) 20.8% INDIANGRASS, PA ECOTYPE (SORGHASTRUM NUTANS, PA ECOTYPE) 11.2% BIG BLUESTEM, 'NIAGARA' (ANDROPOGON GERARDII, 'NIAGRA)
- 8.0% CANADA WILDRYE (ELYMUS CANADENSIS) 5.6% VIRGINIA WILDRYE, MADISON-NY ECOTYPE (ELYMUS VIRGINICUS) 3.2% AUTUMN BENTGRASS (AGROSTIS PERENNANS) 3.1% SWITCHGRASS (PANICUM VIRGATUM)
- 2.4% DEERTONGUE (OANICUM CLANDESTINUM) 1.2% PURPLE CONFFLOWER (ECHINACEA PURPUREA)
- 1.1% PARTRIDGE PEA (CHAMAECRISTA FASCICULATA) 0.9% OXEYE SUNFLOWER (HELIOPSIS HELIANTHOIDES) 0.8% LANCELEAF COREOPSIS (COREOPSIS)
- 0.8% BLACKEYED SUSAN (RUDBECKIA HIRTA) 0.3% WILD BERGAMOT (MONARDA FISTULOSA 0.2% COMMON MILKWEED (ASCLEPIAS SYRIACA)
- 0.2% WRINKLELEAF GOLDENROD (SOLIDAGO RUGOSA) 0.1% CALICA ASTER (ASTER LATERIFLORUS) 0.1% HEATH ASTER (ASTER PILLOSUS)

MUST BE RE-TILLED AND FIRMED AS ABOVE.

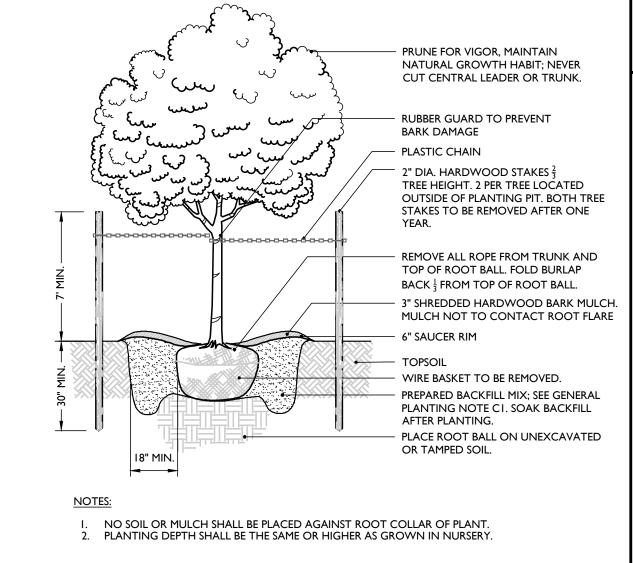
3. PERMANENT SEEDING TO BE APPLIED BY RAKING OR DRILLING INTO THE SOILS AT THE RATE

- 4. FERTILIZER FOR THE ESTABLISHMENT OF TEMPORARY AND PERMANENT VEGETATIVE COVER SHALL BE IN COMPLIANCE WITH THE LATEST NYSDEC REGULATIONS. THIS INCLUDES, BUT LIMITED TO: NO FERTILIZER SHALL BE APPLIED BETWEEN DEC. I AND APRIL I IN ANY YEAR. SHALL NOT BE APPLIED WITHIN 20 FEET OF A WATER BODY. 3. ONLY LAWN FERTILIZER WITH LESS THAN 0.67% BY WEIGHT PHOSPHATE CONTENT MAY BE (A SOIL TEST PRIOR TO FERTILIZER APPLICATION IS RECOMMENDED.)
- 5. IF SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY OR PERMANENT SEEDING, EXPOSED AREA TO BE STABILIZED WITH MULCH AS INDICATED IN NOTE 6.
- 6. MULCH TO CONSIST OF SMALL GRAIN STRAW OR SALT HAY ANCHORED WITH A WOOD AND FIBER MULCH BINDER OR AN APPROVED EQUAL. MULCH WILL BE SPREAD AT RATES PER NYSDEC STANDARDS AND ANCHORED WITH A MULCH ANCHORING TOOL OR LIQUID MULCH BINDER, AND SHALL BE PROVIDED ON ALL SEEDLINGS. HYDROMULCH SHALL ONLY BE USED DURING OPTIMUM GROWING SEASONS.
- AS NEEDED, WORK LIME AND FERTILIZER INTO SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE ON ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM, FINE SEEDBED IS PREPARED. ALL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
- 8. REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLODS, LUMPS, OR
- OTHER UNSUITABLE MATERIAL. 9. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA

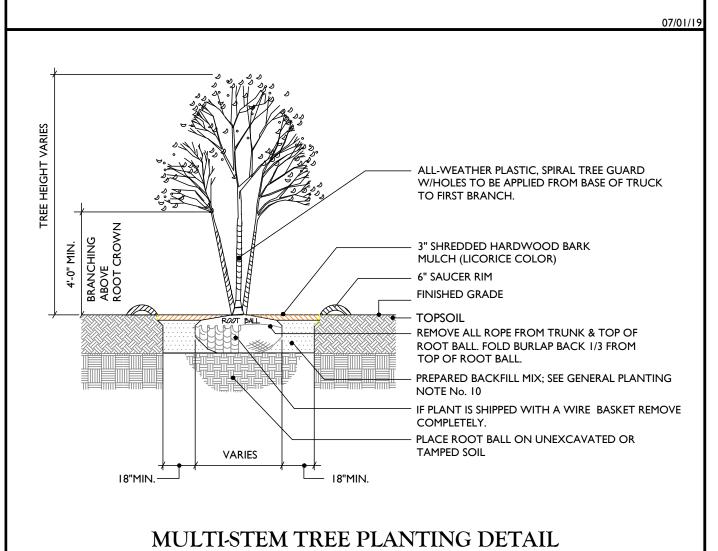


NO SOIL OR MULCH SHALL BE PLACED AGAINST ROOT COLLAR OF PLANT. PLANTING DEPTH SHALL BE THE SAME OR HIGHER AS GROWN IN NURSERY.

EVERGREEN TREE PLANTING DETAIL



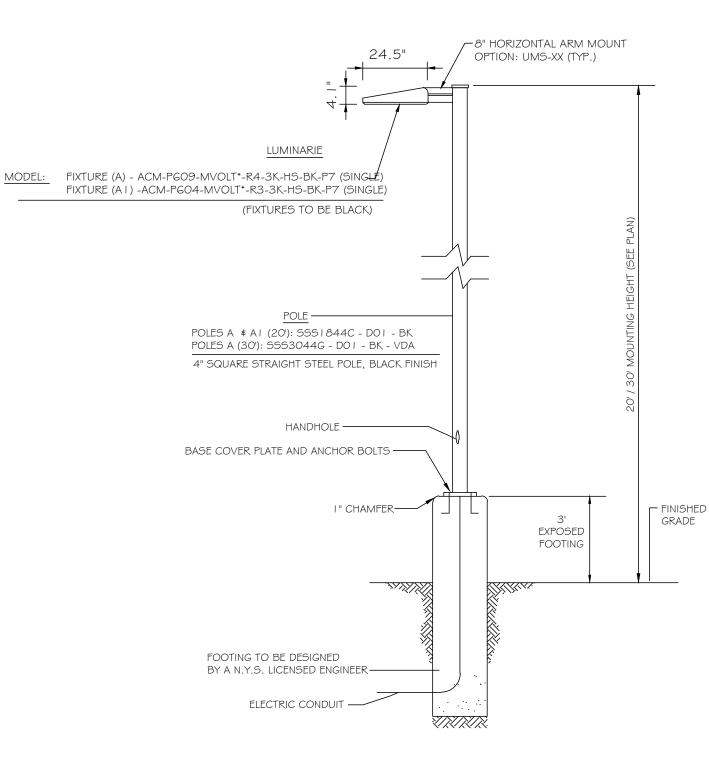
TREE PLANTING DETAIL



- BUILDING FACADE 11.53"-MODEL: FIXTURE (B) HLWPC2-P20-30K-MVOLT*-T4M-BKSDP-P7 FIXTURE (C) HLWPC2-P50-30K-MVOLT*-T3M-BKSDP-P7 LAMP: LEDs COLOR: FIXTURES TO BE BLACK GRADE

WALL MOUNTED FIXTURE DETAIL

- I. LUMINAIRES TO BE MANUFACTURED BY HOLOPHANE LIGHTING OR APPROVED EQUAL. 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.
- 3. *VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR.

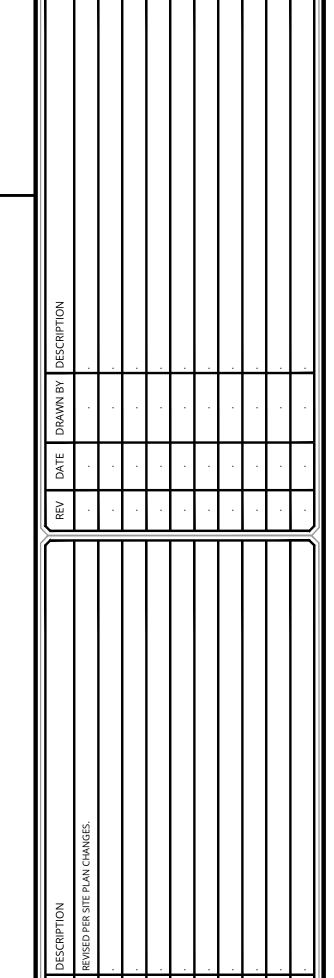


POLE MOUNTED FIXTURE DETAIL

NOT TO SCALE

I. LUMINAIRES TO BE MANUFACTURED BY AMERICAN ELECTRIC LIGHTING AND HOLOPHANE. POLES BY HOLOPHANE (MANUFACTURER TO CONFIRM POLE SIZE) OR APPROVED EQUAL. 2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF LIGHT FIXTURES AND POLES FOR REVIEW AND APPROVAL BY THE OWNER OR PROJECT LANDSCAPE ARCHITECT.

- 3. FOOTING TO BE DESIGNED, SIGNED, AND SEALED BY A N.Y.S. LICENSED ENGINEER.
- 4. *VOLTAGE TO BE CONFIRMED BY ELECTRICIAN CONTRACTOR. 5. PROPOSED POLES HEIGHT TO BE MODIFIED (AS NEEDED) IN FIELD TO MEET DESIGN.



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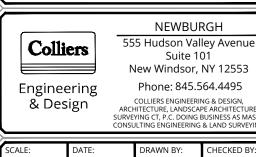
Justin Eric Dates NEW YORK REGISTERED LANDSCAPE ARCHITECT LICENSE NUMBER: 001964-01 COLLIERS ENGINEERING & DESIGN CT, P.C.

PRELIMINARY SITE PLAN

AVION VENTURES POMARICO DRIVE

SECTION 86 BLOCK 1 LOTS 37.222 & 37.223

TOWN OF NEWBURGH ORANGE COUNTY NEW YORK STATE



CONSTRUCTION DETAILS

C-905

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