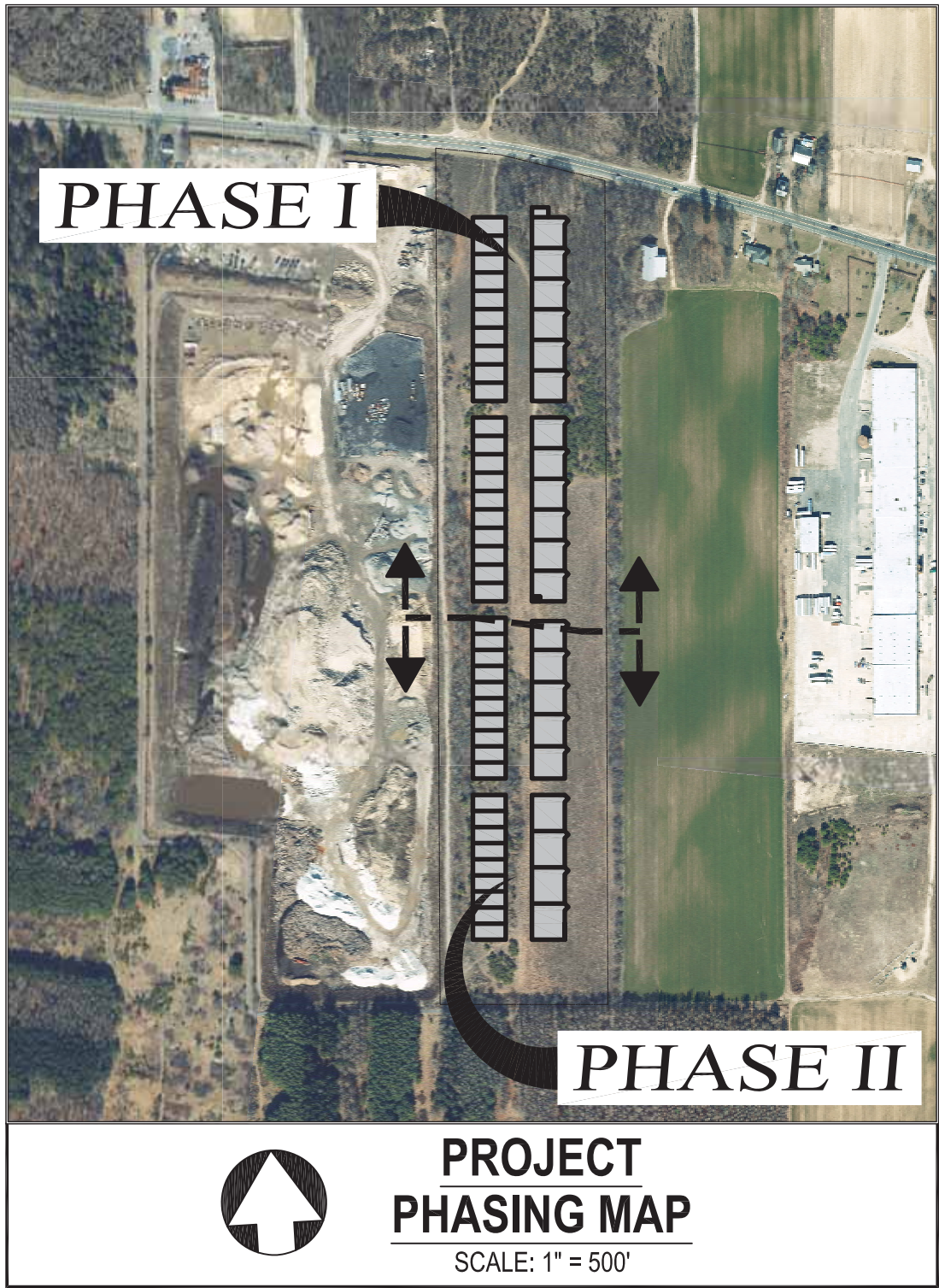


SITE DEVELOPMENT PLANS

FOR
HK VENTURES, LLC
INDUSTRIAL PARK

LOCATED AT
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
SCTM# 0600-116.00-01.00-002.000



SITUATED IN
TOWN OF RIVERHEAD
SUFFOLK COUNTY, NEW YORK

- REFERENCES**
THIS PLAN REFERENCES:
- BOUNDARY & TOPOGRAPHICAL SURVEY PREPARED BY:
GALLAS SURVEYING GROUP
2865 US ROUTE 1
NORTH BRUNSWICK, NY 08902
DATED: 11/08/2019
- ARCHITECTURAL PLANS & RENDERINGS PREPARED BY:
BLD ARCHITECTURE, DPC
31 WEST MAIN STREET, SUITE 205
PATCHOGUE, NY 11772
DATED: 12/02/2021
- SEWAGE TREATMENT PLANT (STP) PLANS PREPARED BY:
P.W. GROSSE CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
630 JOHNSON AVENUE, SUITE 7
BOHEMIA, NY 11716
DATED: 05/12/2020
- ROADWAY MODIFICATION PLANS PREPARED BY:
STONEFIELD ENGINEERING & DESIGN
92 PARK AVENUE
RUTHERFORD, NJ 07070
DATED: 06/19/2020
- GEOTECHNICAL EVALUATION REPORT PREPARED BY:
J.R. HOLZMACHER P.E., LLC
3555 VETERANS MEMORIAL HIGHWAY, SUITE A
RONKONKOMA, NY 11779
DATED: 03/19/2021
- SOIL BORING LOGS & PERCOLATION RATE INFORMATION PREPARED BY:
SLACK TEST BORING CO.
P.O. BOX 64
KINGS PARK, NY 11754
BORINGS 1 - 4
DATED: 11/08/2019
BORINGS 5 - 8
DATED: 02/12/2021
PERCOLATION TEST
DATED: 02/12/2021
- VICINITY MAP BACKGROUND DATA PROVIDED BY
MAPS.GOOGLE.COM

PROJECT DATA	
SITE ADDRESS	4285 MIDDLE COUNTRY ROAD CALVERTON, NY 11933
OWNER / APPLICANT	HK VENTURES, LLC 147 STEAMBOAT ROAD GREAT NECK, NY 11024 c/o SCOTT JOHNS
TAX MAP NUMBER	DISTRICT: 600, SECTION: 116, BLOCK: 1, LOT: 2
SITE AREA	1,317,884 SF (30.2545 Ac)
CURRENT ZONING	INDUSTRIAL C
EXISTING USE	VACANT
PROPOSED USE	PRIMARY USES: WAREHOUSE & MANUFACTURING (INDOOR)
PROPOSED BUILDING AREA (GFA)	PHASE I BUILDING 1 = 56,000 SF BUILDING 2 = 56,672 SF BUILDING 3 = 56,000 SF BUILDING 4 = 56,297 SF COMMISSARY = 1,500 SF TOTAL = 226,469 SF PHASE II (TO BE CONSTRUCTED ONCE PHASE I IS COMPLETED AND OPERATING) BUILDING 5 = 49,000 SF BUILDING 6 = 48,510 SF BUILDING 7 = 44,100 SF BUILDING 8 = 44,550 SF TOTAL = 186,160 SF PHASE I + PHASE II = 412,629 SF (31.31%)
PERVIOUS PAVERS / LANDSCAPE AREA	PERVIOUS PAVER AREA = 118,687 SF LANDSCAPE AREA = 335,909 SF TOTAL PAVEMENT / LANDSCAPE AREA = 454,596 SF (34.49%)
IMPERVIOUS / PAVEMENT / CONCRETE AREA (EXCLUDES BUILDING AREAS)	450,659 SF (34.20%)

DRAWING LIST	
C-1	COVER SHEET
C-2	NOTES SHEET
C-3	OVERALL SITE PLAN
C-4	PARTIAL SITE PLAN (SECTION A - PHASE I)
C-5	PARTIAL SITE PLAN (SECTION B - PHASE I)
C-6	PARTIAL SITE PLAN (SECTION C - PHASE II)
C-7	PARTIAL SITE PLAN (SECTION D - PHASE II)
C-8	OVERALL GRADING & DRAINAGE PLAN
C-9	PARTIAL GRADING & DRAINAGE PLAN (SECTION A - PHASE I)
C-10	PARTIAL GRADING & DRAINAGE PLAN (SECTION B - PHASE I)
C-11	PARTIAL GRADING & DRAINAGE PLAN (SECTION C - PHASE II)
C-12	PARTIAL GRADING & DRAINAGE PLAN (SECTION D - PHASE II)
C-13	OVERALL SANITARY & UTILITY PLAN
C-14	PARTIAL SANITARY & UTILITY PLAN (SECTION A - PHASE I)
C-15	PARTIAL SANITARY & UTILITY PLAN (SECTION B - PHASE I)
C-16	PARTIAL SANITARY & UTILITY PLAN (SECTION C - PHASE II)
C-17	PARTIAL SANITARY & UTILITY PLAN (SECTION D - PHASE II)
C-18	SANITARY NOTES, DETAILS & BORINGS
C-19	OVERALL LANDSCAPE PLAN
C-20	PARTIAL LANDSCAPE PLAN (SECTION A - PHASE I)
C-21	PARTIAL LANDSCAPE PLAN (SECTION B - PHASE I)
C-22	PARTIAL LANDSCAPE PLAN (SECTION C - PHASE II)
C-23	PARTIAL LANDSCAPE PLAN (SECTION D - PHASE II)
C-24	OVERALL LIGHTING PLAN
C-25	PARTIAL LIGHTING PLAN (SECTION A - PHASE I)
C-26	PARTIAL LIGHTING PLAN (SECTION B - PHASE I)
C-27	PARTIAL LIGHTING PLAN (SECTION C - PHASE II)
C-28	PARTIAL LIGHTING PLAN (SECTION D - PHASE II)
C-29	OVERALL CONSTRUCTION PHASING PLAN
C-30	OVERALL SOIL EROSION & SEDIMENT CONTROL PLAN
C-31	SITE DETAILS I
C-32	SITE DETAILS II
C-33	SITE DETAILS III
C-34	SITE DETAILS IV
C-35	FIRE MARSHAL PLAN



CERTIFICATION BOX

THIS IS TO CERTIFY THIS SITE PLAN HAS BEEN APPROVED BY THE PLANNING BOARD OF THE TOWN OF RIVERHEAD BY PLANNING BOARD RESOLUTION NUMBER _____ DATED _____.

SIGNATURE OF PLANNING BOARD CHAIRPERSON _____

DATE OF SIGNATURE _____



				SEAL & SIGNATURE:		DATE: 01/24/2020		 CIVIL ENGINEERING 664 BLUE POINT ROAD, UNIT B HOLTSVILLE, NEW YORK 11742 (631) 861-0506 www.KeyCivilEngineering.com	PROJECT NAME:		DRAWING TITLE:	
				 JACUIN PERINETTI, P.E. NEW YORK STATE PROFESSIONAL ENGINEER #083937		SCALE: N.T.S.			HK VENTURES, LLC INDUSTRIAL PARK		COVER SHEET	
						PROJECT No.: 19026			4285 MIDDLE COUNTRY ROAD CALVERTON, NY 11933		DRAWING No.: C-1	
						DRAWING BY: LC			TOWN OF RIVERHEAD, COUNTY OF SUFFOLK DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2		PAGE No.: 1 OF 35	
						CHECKED BY: YT			ZONE: INDUSTRIAL C			
						APPROVED BY: JP						
REVISIONS				ALTERNATION OF ADDITION TO THIS DOCUMENT IS IN ACCORDANCE WITH SECTION 2206, SUBCHAPTER 4 OF THE NEW YORK STATE EDUCATION LAW.								
6	01/24/2022	LC	MISCELLANEOUS COORDINATION									
5	12/15/2021	LC	FEIS SUBMISSION									
4	04/02/2021	LC	RESUBMISSION TO TOWN									
3	06/22/2020	LC	MISCELLANEOUS COORDINATION									
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION									
1	05/15/2020	LC	ISSUED FOR REVIEW									

1. EXCAVATION SHALL BE PROPERLY BACKFILLED WITH CLEAN, SUITABLE MATERIAL. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT OR CONSULT WITH THE GEOTECHNICAL ENGINEER FOR INSPECTION AND CERTIFICATION.
2. THE CONTRACTOR SHALL INSTALL A TEMPORARY PROTECTIVE FENCE IN ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL CODES AND REGULATIONS AT LOCATIONS WHERE HAZARDOUS CONDITIONS EXIST AS A RESULT OF REMOVAL ACTIVITIES.
3. THE UTILITY INFORMATION SHOWN ON THE PLAN IS A COMPILATION OF FIELD LOCATIONS, ABOVEGROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD, AND RECORD DRAWINGS AVAILABLE AT THE TIME OF THE SURVEY. THE FEASIBILITY OF ALL UTILITIES (DRAINAGE, SEWER, WATER, GAS, ELECTRIC, PHONE, CABLE, ETC.) AND/OR UNDERGROUND STRUCTURES TO BE REMOVED OR RELOCATED HAS NOT BEEN CONFIRMED WITH THE GOVERNING AGENCIES AND MUST BE REVIEWED FURTHER PRIOR TO PREPARATION OF CONSTRUCTION DOCUMENTS.
4. PRIOR TO STARTING ANY DEMOLITION, THE CONTRACTOR IS RESPONSIBLE FOR TO:
 - a. ENSURE COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW.
 - b. INSTALLING THE REQUIRED SLOPE EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
 - c. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
 - d. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES.
 - e. A COMPLETE INSPECTION OF CONTAMINANTS BY A LICENSED ENVIRONMENTAL TESTING AGENCY, OF ALL BUILDINGS AND/OR STRUCTURES TO BE REMOVED. SAME SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL ENVIRONMENTAL REGULATIONS. ANVAIL CONTAMINANTS SHALL BE REMOVED AND DISPOSED OF BY A FEDERALLY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS. ALL ENVIRONMENTAL WORK INCLUDING HAZARDOUS MATERIAL, SOLIDS, ASBESTOS, OR OTHER REFERENCED OR IMPLIED HEREIN IS THE SOLE RESPONSIBILITY OF THE ENVIRONMENTAL CONSULTANT.
5. IN THE ABSENCE OF SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTINGS, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH DIRECTION BY THE STRUCTURAL OR GEO-TECHNICAL ENGINEER.
6. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES.
7. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
8. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS. PRIOR TO DEMOLITION OPERATIONS, THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
9. THE CONTRACTOR IS RESPONSIBLE TO SAFEGUARD SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
10. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH CITY, TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
11. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES OR CALL DAMAGE PROTECTION SYSTEMS FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION.
12. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
13. ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

1. LOCATION OF EXISTING AND PROPOSED UTILITY SERVICES SHOWN ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR WITH THE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF DISCREPANCIES EXIST, NOTIFY THE ENGINEER IMMEDIATELY IN WRITING.
2. UNSUITABLE MATERIAL, CONSTRUCTION DEBRIS, EXCESS SOILS, ETC. SHALL BE PROPERLY REMOVED AND DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND LAWS.
3. THE CONTRACTOR IS RESPONSIBLE TO TAKE EROSION CONTROL MEASURES NECESSARY IN ACCORDANCE WITH MVS STANDARDS AND SPECIFICATIONS FOR EROSION & SEDIMENT CONTROL, TO PREVENT SEDIMENT AND/OR LOOSE DEBRIS FROM WASHING ONTO ADJACENT ROADWAYS AND PROPERTIES.
4. ALL ON-SITE CONCRETE SHALL BE IN CONFORMANCE WITH ACI PROVISIONS. ALL CURBING SHALL BE CONCRETE UNLESS OTHERWISE NOTED.
5. RELOCATION AND/OR REMOVAL OF EXISTING UTILITY POLES, TRAFFIC SIGNS, ETC., SHALL BE COORDINATED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR FIELD-VERIFYING THEIR PRESENCE.
6. ALL TRAFFIC CONTROL DEVICES I.E. SIGNALS, SIGNS, AND PAVEMENT MARKINGS SHALL BE INSTALLED IN CONFORMANCE WITH THE GUIDELINES OF THE NEW YORK STATE MANUAL ON URBAN TRAFFIC CONTROL, DEVICES AND ARE DIRECTED BY THE TOWN OF RIVERHEAD. ALL PAVEMENT MARKINGS REQUIRED IN THE R.O.W. SHALL BE THERMOPLASTIC (NYSDOT SPECIFICATIONS). ON-SITE MARKING SHALL BE PAINT (ASHDOT M248 TYPE F).
7. SIGNAGE PERMITS WILL BE PROCURED BY OTHERS.
8. CONTRACTOR SHALL SAW CUT TO THE FULL DEPTH OF EXISTING PAVEMENT WITH A STRAIGHT VERTICAL EDGE FREE FROM IRREGULARITIES WHEREVER NEW PAVEMENT JOINS EXISTING PAVEMENT. CONTRACTOR SHALL DETERMINE EXACT LOCATION AND EXTENT OF THE REQUIRED SAWCUTTING IN ORDER TO PERFORM THE WORKSCOPE DEFINED ON THE PLANS. TWO FEET MINIMUM FROM CURBS, PADS, WALKS, AND WALLS TO PERMIT PROPER COMPACTION OF THE REPLACED SURFACES.
9. REMOVAL INCLUDES, BUT IS NOT LIMITED TO, CURBING, PAVEMENT, UNSUITABLE MATERIALS, AND UNDERGROUND PIPING. QUESTIONABLE ITEMS ENCOUNTERED (ABOVE AND/OR BELOW GRADE) SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER OF RECORD IMMEDIATELY IN WRITING BEFORE REMOVAL OR DISTURBANCE.
10. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO EXISTING FOUNDATIONS AND OTHER STRUCTURES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING THE APPROPRIATE MEASURES AS NECESSARY TO ENSURE THE STRUCTURAL STABILITY OF EXPOSED AND/OR BELOW GRADE FOUNDATIONS/ WALLS SIDEWALKS AND PAVEMENT TO REMAIN, AND SHALL PROVIDE A SLOPE PROTECTION FROM DAMAGE OR DISTURBANCE DUE TO SUBJECT WORKSCOPE SHALL BE REPAIRED TO LIKE-CONDITION UNLESS OTHERWISE NOTED BY THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES. ANY TRAFFIC CONTROL, ACCESS, AND SAFETY PROVISIONS WITHIN THE R.O.W. AND ACCESS ROUTES (E.G. ACCESSIBLE RAMPS, PEDESTRIAN CROSSWALKS, SIDEWALK PAVEMENT STRIPING) ETC. SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL DETERMINE APPROPRIATENESS OF ANY COMPONENT REPLACEMENTS THAT CAN BE INSTALLED.
12. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE THE SAFETY OF ITS EMPLOYEES. THE GENERAL PUBLIC, STRUCTURES TO REMAIN, ADJACENT PROPERTIES, PUBLIC R.O.W.'S, ETC. DURING ALL CONSTRUCTION AND REMOVAL ACTIVITIES IN ACCORDANCE WITH FEDERAL, STATE, COUNTY AND LOCAL CODES AND REGULATIONS. THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITIES FOR THE CONTRACTOR'S SAFETY PROGRAMS & PROCEDURES IN CONNECTION WITH THE WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATION, SIZE, TYPE, AND DEPTH OF UTILITIES, PIPING, DRYWELLS, ETC. PRIOR TO THE START OF ANY WORK. THE CONTRACTOR MUST CONTACT THE APPROPRIATE LOCAL "ONE CALL" SYSTEM TO ENSURE THAT ALL UTILITIES ARE PROPERLY AND COMPLETELY MARKED OUT IN THE FIELD PRIOR TO ANY WORK AT THE SITE. ANY DISCREPANCIES BETWEEN THE FIELD LOCATIONS AND RECORDS SHALL BE REPORTED TO THE ENGINEER IN WRITING IMMEDIATELY. THE CONTRACTOR IS ADVISED THAT UTILITY INFORMATION SHOWN ON THE PLANS IS A COMPILED LIST OF LOCATIONS, ABOVEGROUND STRUCTURES THAT WERE VISIBLE AND ACCESSIBLE IN THE FIELD, AND RECORD DRAWINGS AVAILABLE AT THE TIME OF THE SURVEY AND MUST BE CONFIRMED ACCORDINGLY. THE CONTRACTOR SHALL COORDINATE UTILITY LOCATION WITH THE RECORDS AND WITH THE CONTRACTOR'S PRIOR TO REMOVAL ACTIVITIES. THE CONTRACTOR IS ALSO ADVISED THAT ALL SUCH FACILITIES DISTURBED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
14. THE CONTRACTOR SHALL COMPLETELY FILL BELOW GRADE AREAS AND VOIDS RESULTING FROM THE REMOVAL OF STRUCTURES AND FOUNDATIONS WITH SOIL, CONSISTING OF MATERIALS FREE FROM DEBRIS, TRASH, FROZEN MATERIALS, ROOTS AND OTHER ORGANIC MATTER. STONES USED SHALL NOT BE LARGER THAN 6 INCHES IN DIMENSION, PRIOR TO PLACEMENT OF FILL MATERIALS. UNDERTAKE ALL NECESSARY ACTIONS IN ORDER TO ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH AND DEBRIS. PLACE FILL MATERIALS IN HORIZONTAL LAYERS, NOT EXCEEDING 18 INCHES PER LAYER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN OPTIMUM DRAINAGE GRADE SURFACE TO MEET ADJACENT CONTOURS AND TO PROVIDE SURFACE DRAINAGE. REFER TO GEOTECHNICAL REPORT (IF PROVIDED) FOR FURTHER RECOMMENDATIONS. REFER TO GRADING PLAN FOR PROPOSED SURFACE ELEVATIONS.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES REGARDING MATERIALS AND INSTALLATION OF PROPOSED WORK, FOR OBTAINING THE REQUIRED PERMITS, SIGN OFFS, AND CONSTRUCTION INSPECTIONS, ACCORDING TO GOVERNING BUILDING CODES AND DISPOSAL OF ALL MATERIAL IN ACCORDANCE WITH STATE AND LOCAL LAW.
16. SIDEWALKS, CURBS, OR OTHER EXISTING SITE APPURTENANCES DAMAGED BY CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN KIND OR UNLESS NOTED OTHERWISE (UNO), OTHERWISE SPECIFIED ON THIS PLAN OR NOT AT THE SOLE COST OF THE CONTRACTOR.
17. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS.
18. SEQUENCE AND COORDINATION OF CONSTRUCTION IS SOLELY THE CONTRACTOR'S RESPONSIBILITY.
19. ANY UTILITIES INCLUDING POLES REQUIRED TO BE RELOCATED DUE TO THE INSTALLATION OF THE REQUIRED IMPROVEMENTS SHALL BE RELOCATED AT THE EXPENSE OF THE APPLICANT/OWNER/DEVELOPER/CONTRACTOR.
20. ALL TRAFFIC ROAD MARKINGS, ROAD SIGNS, AND LIGHT SIGNALS THAT MAY HAVE BEEN MOVED OR DAMAGED IN THE PROCESS OF CONSTRUCTION SHALL BE RESTORED AT THE APPLICANTS EXPENSE TO AT LEAST THE SAME QUALITY AND CHARACTERISTICS THAT EXISTED BEFORE CONSTRUCTION. IN THE EVENT OF FAILURE, SHALL BE FURTHER RESPONSIBLE TO INSURE THAT, IN THE FUTURE, IN ADDITION TO THE CONSTRUCTION SITE, THESE MARKINGS, SIGNS AND SIGNALS ARE MAINTAINED DURING THE ENTIRE PERIOD OF CONSTRUCTION. IF REPLACEMENT OR UPGRADE IS REQUIRED, SAME MUST BE APPROVED BY THE TOWN OF RIVERHEAD.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE SHALL BE THE RESPONSIBILITY OF THE PROJECT ENGINEER SHALL CONSTITUTE A WAIVER OF THE FULL RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE SOLE WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODE.
22. THE CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST O.S.H.A. STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF O.S.H.A., AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
23. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INTENT ELEVATIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A 10% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS. 1.5% MINIMUM ON ASPHALT. TO PREVENT PONDING, ANY DISCREPANCIES THAT MAY AFFECT THE PUBLIC SAFETY OR PROJECT COST MUST BE IDENTIFIED TO THE PROJECT ENGINEER IN WRITING IMMEDIATELY PROCEEDING WITH CONSTRUCTION WITHOUT NOTIFICATION IS DONE SO AT THE CONTRACTOR'S OWN RISK.
24. IN CASE OF DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS, IMMEDIATELY NOTIFY THE PROJECT ENGINEER IN WRITING OF ANY CONFLICTS.
25. CONTRACTOR SHALL BE REQUIRED TO SECURE ALL NECESSARY PERMITS AND APPROVALS FOR ALL OFF-SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR SHALL SUPPLY A COPY OF APPROVALS TO PROJECT ENGINEER AND OWNER PRIOR TO INITIATING WORK.
26. THE CONTRACTOR MUST NOTIFY THE TOWN OF RIVERHEAD ENGINEERING DIVISION AND SCDS 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY ON-SITE DRAINAGE, SANITARY, CURB, OR PAVING WORK.
27. THE OWNER SHALL PROVIDE WAIFYING SIGNALS ON-SITE.
28. THE OWNER SHALL PROVIDE THE SEPARATE DUMPSTERS FOR THE APPROPRIATE REFUSE SUCH AS TRASH, RECYCLING, ETC.

1. THE STORMWATER POLLUTION PREVENTION PRACTICES PROPOSED HEREON HAVE BEEN IDENTIFIED AS THE MINIMUM RECOMMENDED PRACTICES. ADDITIONAL STORMWATER MANAGEMENT FACILITIES OR PRACTICES SHALL BE INSTALLED TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND PREVENT THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE. CONTRACTOR TO NOTIFY IN WRITING AND CONSULT WITH THE ENGINEER OF RECORD OF ANY ADDITIONAL MEASURES ARE REQUIRED OR IF THERE IS EVIDENCE INDICATING POTENTIAL OR REALIZED IMPACTS ON WATER QUALITY DUE TO ANY STORMWATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
2. NOTHING IN THIS STORMWATER POLLUTION PREVENTION PRACTICES DRAWING OR REPORTS RELIEVES THE CONTRACTOR OR OWNER/OWNER FROM OBTAINING ANY OTHER PERMITS REQUIRED BY OR FOR COMPLIANCE WITH TAKING ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF NYS DEC PERMIT NO. GP-0-00-001 OR WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.
3. ALL STORMWATER MANAGEMENT PRACTICES SHALL BE INSPECTED BY THE ENGINEER OF RECORD AS THEY ARE CONSTRUCTED. NOTIFY ENGINEER OF THE START OF CONSTRUCTION AND DURATION A MINIMUM OF 2 WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. WITHOUT PROPER INSPECTION, CONTRACTOR MAY BE REQUIRED TO REMOVE AND REINSTATE STORMWATER MANAGEMENT PRACTICES AT CONTRACTORS EXPENSE.
4. CONTRACTOR SHALL BE FAMILIAR WITH THE NEW YORK STATE STANDARDS AND SPECIFICATION FOR EROSION AND SEDIMENT CONTROL. ("BLUE BOOK") DATED NOVEMBER 2016 AND THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL DATED JANUARY 2015.
5. EROSION CONTROL MEASURES TO PREVENT THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE SHALL, AT A MINIMUM, CONFORM TO THE NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL UNLESS ADDITIONAL MEASURES ARE REQUIRED OR NOTED BY THE ENGINEER OF RECORD.
6. IT SHALL NOT BE A DEFENSE FOR A CONTRACTOR OR AN OWNER/OWNER IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE CONSTRUCTION ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH OR IMPLEMENT EROSION AND SEDIMENT CONTROL PRACTICES. ALL EROSION CONTROL MEASURES SHALL BE ADJUSTED/RELOCATED BY CONTRACTOR AS IDENTIFIED DURING SITE INSPECTIONS IN ORDER TO MAINTAIN EFFECTIVENESS OF CONTROL MEASURES.
7. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES SHALL BE DEEMED INCLUDED IN THE PRICE BID FOR THE SITE WORK.
8. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK SHALL BE DONE AS INDICATED IN THE CONSTRUCTION SEQUENCE.
9. INSTALLATION OF EROSION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS.
10. CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL PRACTICES AND POLLUTION PREVENTION MEASURES BEING IMPLEMENTED AFTER EACH RAINFALL EVENT AND DAILY WITHIN THE ACTIVE WORK AREA TO ENSURE THAT THEY ARE BEING MAINTAINED IN EFFECTIVE OPERATING CONDITION AT ALL TIMES. INSPECTION OF ALL IMPLEMENTED PRACTICES SHALL OCCUR WEEKLY AT A MINIMUM. IF DEFICIENCIES ARE IDENTIFIED, THE CONTRACTOR SHALL BEGIN IMPLEMENTING CORRECTIVE ACTIONS WITHIN ONE BUSINESS DAY AND SHALL COMPLETE THE CORRECTIVE ACTIONS IN A REASONABLE TIME FRAME.
11. CONTRACTOR SHALL REMOVE ANY SILT FROM SOIL EROSION AND SEDIMENT CONTROL MEASURES WHEN IT REACHES 1/2 (ONE-HALF) CAPACITY UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER. THE MATERIAL SHOULD BE INCORPORATED INTO THE SITE IN A STABILIZED MANNER.
12. TEMPORARY SEED AND MULCH SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 15 DAYS, WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON. THEY SHALL BE STABILIZED WITH GEOTEXTILE FABRIC AND MAINTAINED ACCORDING TO BEST PRACTICES.
13. CONTINUE INSPECTION AND REPAIR OF STORMWATER POLLUTION PREVENTION MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND PERMANENT STABILIZATION IS ACHIEVED.
14. REMOVE EROSION CONTROL, MEASURES, SILT, AND DEBRIS UPON ESTABLISHMENT OF PERMANENT STABILIZATION OF ALL UPSTREAM / TRIBUTARY AREAS.
15. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL UNSUITABLE MATERIAL AND DEBRIS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL CITY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
16. THESE PLANS ARE BASED ON INFORMATION AVAILABLE TO OUR OFFICE AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD-VERIFY EXISTING CONDITIONS AND NOTIFY OUR OFFICE IF ACTUAL SITE CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE IMPACTED BY ANY OTHER SITE FEATURES.
17. CONTRACTOR SHALL CLEAN ALL ON-SITE EXISTING & PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPE AT END OF PROJECT AS WELL AS ALL OFF-SITE DRAINAGE STRUCTURES THAT MAY HAVE RECEIVED RUNOFF FROM THE SITE.
18. CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION BEYOND THE LIMITS OF DISTURBED AREA AS NECESSARY TO PREVENT SILT AND DEBRIS FROM CONSTRUCTION ACTIVITIES GETTING INTO ANY DRAINAGE SYSTEM FOR WHICH THE PROJECT IMPACTS.
19. CONTRACTOR SHALL LOCATE CONCRETE WASHOUT AREA, STOCKPILE AREA, AND CONSTRUCTION WASTE MATERIAL STORAGE AREAS SO AS TO MINIMIZE EXPOSURE TO STORMWATER. CONSTRUCTION WASTE SHALL BE IMMEDIATELY PLACED IN ON-SITE STORAGE CONTAINERS UNTIL READY FOR OFF-SITE DISPOSAL. CONTRACTOR SHALL MAINTAIN SILL PREVENTATION & RESPONSE EQUIPMENT AND MAKE AVAILABLE ON-SITE FOR USE BY CONTRACTOR'S EMPLOYEES TRAINED IN THE APPLICATION OF SPILL PREVENTION & RESPONSE PROCEDURES.
20. CONTRACTOR SHALL IDENTIFY LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED ON THE PLAN.
21. DEWATERING (IF REQUIRED) SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL & STATE REGULATIONS, AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY NECESSARY ASSOCIATED DISCHARGE PERMITS.
22. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
 - a. STABILIZED CONSTRUCTION ENTRANCE/EXIT - TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED AT THE DRIVEWAY ON FLANDERS ROAD. THIS AREA SHALL BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
 - b. INLET PROTECTION - IMMEDIATELY INSTALL FOR EACH INLET AS DRAINAGE STRUCTURES ARE INSTALLED.
 - c. DUST CONTROL - STOCKPILES OF SOIL SHOULD BE LIMITED TO 15' MAXIMUM HEIGHT AND REMOVED OR UTILIZED FOR SITE CONSTRUCTION AS SOON AS PRACTICABLE. SHOULD EXCESSIVE DUST BE GENERATED, THE CONTRACTOR SHALL APPLY WATER TO BARE SOIL SURFACES TO MINIMIZE BLOWING DUST.
23. THE RIGHT-OF-WAY IS NOT TO BE USED FOR STORAGE OR STAGING OF EQUIPMENT OR MATERIALS DURING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE RIGHT-OF-WAY DURING CONSTRUCTION AND SHALL INSTALL FENCING ALONG THE PROPERTY'S FRONTAGE TO LIMIT ACCESS FOR CONSTRUCTION VEHICLES TO DEFINED POINTS OF INGRESS/EGRESS.
24. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS PERMANENTLY OR TEMPORARILY EXISTING DISTURBED AREA WILL NOT BE DISTURBED AGAIN WITHIN 14 CALENDAR DAYS OF THE PREVIOUS SOIL DISTURBANCE CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN SEVEN (7) DAYS FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED.
25. CONTRACTOR SHALL SCHEDULE ON-SITE PRE-CONSTRUCTION MEETING A MINIMUM 5 DAYS PRIOR TO ANY GROUND DISTURBANCE WITH THEIR TRAINED CONTRACTOR, OWNER, AND ENGINEER OF RECORD.

1. THE CONTRACTOR SHALL INSPECT SITE PRIOR TO START OF PLANTING OPERATIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY CONDITIONS THAT ARE NOT SUITABLE FOR PERFORMING PLANTING OPERATIONS, AND OF ANY CONDITIONS THAT WOULD PREVENT HEALTHY GROWTH OF PLANT MATERIAL.
2. THE CONTRACTOR SHALL LOCATE AND VERIFY ALL EXISTING AND NEW UTILITY LINE LOCATIONS PRIOR TO PLANTING AND SHALL REPORT ANY CONFLICTS IN WRITING TO THE ENGINEER OF RECORD.
3. NO HEAVY EQUIPMENT, MACHINERY, OR STOCKPILING OF MATERIAL IS PERMITTED WITHIN THE DRIPLINE OF ANY EXISTING TREES THROUGHOUT THE COURSE OF THE CONTRACT.
4. GRASS/COVER AND HERBACEOUS BEDS SHALL HAVE COMPOST ADDED TO THE TOPSOIL MIX AT THE RATIO OF 2 PARTS COMPOST TO 3 PARTS TOPSOIL.
5. BEFORE COMMENCING WORK, ALL EXISTING VEGETATION WHICH COULD BE IMPACTED AS A RESULT OF THE PROPOSED CONSTRUCTION ACTIVITIES MUST BE PROTECTED FROM DAMAGE BY THE INSTALLATION OF TREE PROTECTION FENCING APPROVED BY THE ENGINEER OF RECORD. FENCING SHALL BE LOCATED AT THE DRIPLINE OR LIMIT OF DISTURBANCE AS DEPICTED WITHIN THE APPROVED OR FINAL PLAN SET, ESTABLISHING THE TREE PROTECTION ZONE. NO WORK MAY BEGIN UNTIL THIS REQUIREMENT IS FULFILLED. THE FENCING SHALL BE INSPECTED REGULARLY BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
6. LANDSCAPE CONTRACTOR SHALL OBTAIN A SOIL TEST OF THE IN-SITU TOPSOIL BY A CERTIFIED SOIL LABORATORY PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ALLOW FOR A TWO WEEK TURNAROUND TIME FROM SUBMITTAL OF SAMPLE TO NOTIFICATION OF RESULTS. BASED ON SOIL TEST RESULTS, ADJUST THE RATES OF LIME AND FERTILIZER THAT SHALL BE MIXED INTO THE TOP-SIX INCHES (6") OF TOPSOIL. THE LIME AND FERTILIZER RATES PROVIDED WITHIN THE "SEED SPECIFICATION" IS APPROXIMATE AND FOR BIDDING PURPOSES ONLY. IF ADDITIONAL AMENDMENTS ARE NECESSARY, ADJUST THE TOPSOIL AS FOLLOWS: MODIFY HEAVY CLAY OR SILT SOILS (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) OR GYPSSUM. MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATERIAL AND/OR DRY, SHREDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
7. TOPSOIL SHALL BE FERTILE, FRABLE, NATURAL, TOPSOIL OF LOAMING CHARACTER, WITHOUT ADMIXTURE OF SUBSIL MATERIAL OBTAINED FROM A WEATHERED AND FRABLE SITE, FREE FROM ALL CLAY LUMPS, COARSE SANDS, STONES, PLANTS, ROCK, STICKS, AND OTHER FOREIGN MATERIAL. GREATER THAN 10% (1") TOPSOIL SHALL HAVE A PH RANGE OF 5.0-7.0 AND SHALL NOT CONTAIN LESS THAN 5% ORGANIC MATTER BY WEIGHT. OBTAIN TOPSOIL ONLY FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT THE PROJECT SITE.
8. ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THE APPROVED OR FINAL CONSTRUCTION SET UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD. ALL PLANTING AND LAWN AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW A FREE FLOW OF SURFACE WATER.
9. LAWN SEED MIXTURE SHALL BE FRESH, CLEAN, NEW CROP SEED. SOO SHALL BE STRONGLY ROOTED, UNIFORM IN THICKNESS, AND FREE OF WEEDS, DISEASE, AND PESTS. SEED OR SOO SHALL BE PURCHASED FROM A RECOGNIZED DISTRIBUTOR AND SHALL BE COMPOSED OF THE MIX OR BLEND WITHIN THE PROVIDED "SEED SPECIFICATION".
10. PROTECT NEW LAWN AREAS AGAINST TRASPASSING WHILE THE SEED IS GERMINATING. FURNISH AND INSTALL FENCES, SIGNS, BARRIERS OR ANY OTHER NECESSARY TEMPORARY PROTECTIVE DEVICES. DAMAGE RESULTING FROM TRASPASS, EROSION, WASHOUT, SETTLEMENT OR OTHER CAUSES SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR AT HIS EXPENSE. REMOVE ALL FENCES, SIGNS, BARRIERS OR OTHER TEMPORARY PROTECTIVE DEVICES ONCE LAWN HAS BEEN ESTABLISHED.
11. MOW ALL LAWN AREAS AT REGULAR INTERVALS TO KEEP THE LAWN HEIGHT FROM EXCEEDING 3". MOWING SHALL BE PERFORMED ONLY WHEN THE GRASS IS DRY. MOWER BLADE SHALL BE SET TO REMOVE NO MORE THAN ONE-THIRD OF THE GRASS LENGTH. WHEN THE AMOUNT OF CUT GRASS IS HEAVY, IT SHALL BE REMOVED TO PREVENT OBSTRUCTION OF THE UNDERLYING TURF.

PRIOR TO SEEDING, MIX TOP 2" LAYER OF TOPSOIL WITH FERTILIZER AND LIME. 10-20-10 FERTILIZER SHALL BE APPLIED AT THE RATE OF 50 POUNDS PER ACRE OR 11 POUNDS PER 1,000 S.F. LIME SHALL BE APPLIED IN ACCORDANCE WITH THE FOLLOWING CHART:

SOIL TEXTURE	TONS/ACRE	LB'S/1,000 SF
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	130
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

ABOVE APPLICATION RATES FOR FERTILIZER AND LIME ARE STANDARD RATES AND SHALL BE ADJUSTED BASED ON SITE SPECIFIC SOIL TESTS.

2. TOPSOIL SHALL BE TILLED, FINE GRADED, AND RAKED FREE OF ALL DEBRIS LARGER THAN 1" IN DIAMETER. ALL LAWN AREAS SHALL BE SLOPED TO DRAIN OR PER THE APPROVED GRADING PLAN.

3. CONSULT MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS AND IMPLEMENT AS REQUIRED PRIOR TO APPLICATION OF SEED.

4. GENERAL LOW MAINTENANCE SEED MIX (#8)

SEED MIXTURE	LB'S/ACRE	LB'S/1,000 SF	OPTIMAL PLANTING DATES
FINE FESCUE (BUND)	75	2.1	ZONE 5B & 6A = 3-15-02/1
HARD FESCUE	75	2.1	= 8-1/-10/1
STRONG CREEPING RED FESCUE	75	2.1	ZONE 6B = 3-1/-4-30
KENTUCKY BLUEGRASS	10	0.25	= 8-15/-10/15
PERENNIAL RYEGRASS	10	0.25	ZONE 7A & 7B = 2-1/-4-30
WHITE CLOVER	5	0.10	= 8-15/-10/30

MAINTENANCE LEVEL

(B) FREQUENT MOWING (4-7 DAYS), OCCASIONAL FERTILIZATION, LIME AND WEED CONTROL.
(C) PERIODIC MOWING (7-14 DAYS), OCCASIONAL FERTILIZATION AND LIME
(D) INFREQUENT OR NO MOWING, FERTILIZATION AND LIME THE FIRST YEAR OF ESTABLISHMENT

5. SEED SHALL BE APPLIED IN TWO DIRECTIONS AT RIGHT ANGLES TO EACH OTHER. ONCE APPLIED, FIRM THE SOIL WITH A CORRUGATED LAWN ROLLER TO PROMOTE SEED-TO-SOIL CONTACT.

6. APPLY UNROOTED SMALL GRASS STRAW, HAY FREE OF SEEDS, OR SALT HAY TO ALL SEEDED AREAS AT THE RATE OF 1 1/2 - 2 TONS PER ACRE OR 75-100 LBS PER 1,000 S.F. SPREAD 40% MICH SO THAT APPROXIMATELY 65% OF THE SOIL SURFACE IS COVERED. ANCHORING OF MULCH MAY BE ACCOMPLISHED IMMEDIATELY AFTER PLACING TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS: PEG AND TIE, MULCH NETTING, OR LIQUID MULCH BINDER.

7. WATER NEWLY SEEDED AREAS WITH A MINIMUM OF 1/4 INCH OF WATER TWICE A DAY (NOT DURING PERIODS OF INTENSE SUN) UNTIL VEGETATION IS WELL ESTABLISHED.

A. SCOPE
THE CONTRACTOR SHALL FURNISH AND INSTALL AN UNDERGROUND MARKING TAPE ALONG ALL SEWER, WATER, GAS, AND ELECTRIC MAINS & CONNECTIONS.

B. MATERIALS
THE MATERIAL SHALL BE SOLID PLASTIC TAPE WITH A MINIMUM THICKNESS OF 4.5 MIL. THE TAPE SHALL BE RESISTANT TO ALKALIS, ACIDS AND OTHER DESTRUCTIVE ELEMENTS. THE TAPE SHALL BE GREEN FOR SEWER, BLUE FOR WATER, YELLOW FOR GAS, AND RED FOR ELECTRIC. 3" MIN. WIDTH, MARKED WITH THE WORDS, "CAUTION - SEWANTARY SEWER," "CAUTION - WATER," "CAUTION - GAS" AND "CAUTION - ELECTRIC." THE MARKING SHALL BE REPEATED EVERY 1' - 36"

C. INSTALLATION
AFTER PARTIALLY BACKFILLING AND LEVELING THE TRENCHES TO A HEIGHT OF 18" - 24" ABOVE THE DEPTH OF PIPE/CUTTING, THE ROLL TAPE SHALL BE MOUNTED ON A WHEEL AND SPREAD AROUND THE PREPARED SURFACE AS STRAIGHT AS POSSIBLE. THE TAPE SHALL BE HELD IN POSITION BY APPLYING BACKFILL AND HAND SHOVELS BEFORE USING MECHANICAL EQUIPMENT TO FINISH THE BACKFILL.

1. ALL SITE WORK SHALL BE COORDINATE WITH NYSDOT.
2. ANY SIDEWALK PANELS OR CONNECTING PAVEMENT THAT HAVE SETTLED WITH A GREATER THAN 1/4" LIP OR CRACK OVER 3/8" WIDE SHALL BE REPLACED TO MEET ADA REQUIREMENTS.
3. ALL DRAINAGE FRAMES WITHIN THE PROJECT LIMITS SHALL BE INSPECTED AND ADJUSTED TO IMPROVE BICYCLE SAFETY BEFORE AND AFTER CONSTRUCTION AS FOLLOWS:
 - a. IF THE EDGE OF THE FRAME IS DIRECTLY ADJACENT TO THE CURB OR THE EDGE OF PAVEMENT THEN THE GRATE SHALL BE ADJUSTED TO THE MAXIMUM EXTENT AWAY FROM THE CURB OR THE EDGE OF PAVEMENT TO MINIMIZE THE GAP BETWEEN THE FRAME AND GRATE ALONG THE PROBABLE BICYCLE WHEEL PATH.
 - b. AFTER ADJUSTMENT THE FRAME SHALL BE SECURE AND NON-ROCKING; ANY MISSING BOLTS SHALL BE REPLACED; AND THE FRAME, CASTING, AND PAVEMENT SURFACING SHALL PROVIDE AN EVEN, CONTINUOUS, AND NON-SLIPPERY SURFACE FOR THE PATH OF TRAVEL OF THE BICYCLE WHEELS. THE APPLICANT SHALL REPAIR ANY OF THE AFORESAIDED DRAINAGE STRUCTURE DEFICIENCIES ACCORDING TO THE DIRECTION AND APPROVAL OF THE NY'S DOT. ELEVATION DIFFERENCES BETWEEN THE PAVEMENT AND FRAME/GRATE OF 1/2 INCH OR MORE SHALL BE CORRECTED WITH A TRANSITION OF 1/2 INCH PER FOOT.
4. THE CONTRACTOR SHALL CLEAN EXISTING DRAINAGE BASINS ALONG AND IMMEDIATELY ADJACENT TO THE SITE PORTIONABLE AT THE COMPLETION OF CONSTRUCTION SHOULD APPROPRIATE EROSION CONTROL METHODS NOT BE SATISFACTORILY EMPLOYED.
5. REPAIR EXISTING SHOULDER, SIDEWALK, AND CURBING AS ORDERED BY STATE ENGINEER.
6. ALL UTILITY WORK PROPOSED WITHIN NY'S RIGHT-OF-WAY WILL REQUIRE A SEPARATE APPLICATION AND SUBMISSION OF PLANS. CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN THE REQUIRED UTILITY HIGHWAY WORK PERMIT.
7. PRIOR TO STARTING ANY WORK AT THIS LOCATION, THE CONTRACTOR SHALL NOTIFY THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION THAT A TONE-OUT OF SIGNAL EQUIPMENT IS NEEDED. PLEASE CALL THE INFORMATION OFFICE AT (516) 904-3050.
8. REFERS TO PLANS BY TRAFFIC ENGINEER FOR ADDITIONAL CALL WORK AND INFORMATION.

1. THERE ARE NO KNOWN EXISTING UTILITIES PRESENT WITHIN 150' OF THE PROPOSED WORK AREA.
2. THERE ARE NO MAPPED DEC WETLANDS/SURFACE WATERS WITHIN 300' OF PROPERTY BOUNDARY.
3. ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE (NEC).
4. THE LOCATIONS, SIZES AND TYPES OF EXISTING UTILITIES ARE SHOWN AS AN APPROXIMATE REPRESENTATION ONLY. THE OWNER OR ITS REPRESENTATIVES HAVE NOT INDEPENDENTLY VERIFIED THIS INFORMATION AS SHOWN ON THE PLANS. THE UTILITY INFORMATION SHOWN DOES NOT GUARANTEE THE ACTUAL EXISTENCE, UNDEVIABILITY, OR OTHER DATA CONCERNING THE UTILITIES, NOR DOES IT GUARANTEE AGAINST THE POSSIBILITY THAT ADDITIONAL UTILITIES MAY BE PRESENT THAT ARE NOT SHOWN ON THE PLANS. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS-OF-WAY.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, OR EXISTING CONDITIONS DIFFER FROM THOSE SHOWN SUCH THAT THE WORK CANNOT BE COMPLETED AS INTENDED, THE LOCATION, ELEVATION, AND SIZE OF UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNERS REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT AND CONTRACTORS FAILURE TO NOTIFY PRIOR TO PERFORMING ADDITIONAL WORK RELEASES OWNER FROM OBLIGATIONS FOR ADDITIONAL PAYMENTS WHICH OTHERWISE MAY BE WARRANTED TO RESOLVE THE CONFLICT.
6. SET CATCH BASIN RIMS, AND INVERTS OF SANITARY SEWER SYSTEM, SEWAGE TREATMENT PLANT (STP), DRAINS, AND DITCHES IN ACCORDANCE WITH ELEVATIONS ON THE GRADING & GRADING PLAN AND THE SANITARY & UTILITY PLANS.
7. RIM ELEVATIONS FOR DRAIN AND SANITARY STRUCTURES, WATER VALVE COVERS, GAS GATES, ELECTRIC AND TELEPHONE PULL BOXES, AND MANHOLES, AND THEIR SUCH ITEMS, ARE APPROXIMATE AND SHALL BE SET/RESET AS FOLLOWS:
 - a. PAVEMENTS AND CONCRETE SURFACES: FLUSH
 - b. ALL SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
 - c. LANDSCAPE, LOAM AND SEED, AND OTHER EARTH SURFACE AREAS: ONE INCH ABOVE SURROUNDINGS AND TAPER EARTH TO THE RIM ELEVATION.
8. THE LOCATION, SIZE, DEPTH, AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES SHALL BE INSTALLED ACCORDING TO THE REQUIREMENTS PROVIDED TO, AND APPROVED BY, THE RESPECTIVE UTILITY COMPANY (GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). FINAL DESIGN LOADS AND LOCATIONS TO BE COORDINATED WITH OWNER AND ARCHITECT.
9. CONTRACTOR SHALL MAKE ARRANGEMENTS FOR AND SHALL BE RESPONSIBLE FOR PAYING FEES FOR POLE RELOCATION AND FOR THE ALTERATION AND ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, FIRE ALARM, AND ANY OTHER PRIVATE UTILITIES, WHETHER WORK IS PERFORMED BY CONTRACTOR OR BY THE UTILITIES COMPANY.
10. UTILITY PIPE MATERIALS SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED ON THE PLAN:
 - a. WATER MAIN AND FIRE SERVICE PIPES SHALL BE CLASS 52 DUCTILE IRON (DI) WATER PIPE
 - b. DOMESTIC WATER SERVICE PIPES SHALL BE TYPE K COPPER PIPE
 - c. SANITARY SEPTIC PIPES SHALL BE SDR-35 POLYVINYL (PVC) PIPE.
 - d. STORM DRAINAGE PIPES SHALL BE HDPE DRAINAGE PIPE

- CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR AND SHALL FURNISH EXCAVATION, INSTALLATION, AND BACKFILL OF ELECTRICAL FURNISHED SITEWORK RELATED ITEMS SUCH AS PULL BOXES, CONDUITS, DUCT BANKS, LIGHT POLES BASES, AND CONCRETE PADS, SITE PREPARED. CONTRACTOR SHALL FURNISH CONCRETE ENCASUREMENT OF DUCT BANKS IF REQUIRED BY THE UTILITY COMPANY AND AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL EXCAVATE AND BACKFILL TRENCHES FOR GAS IN ACCORDANCE WITH GAS COMPANY'S REQUIREMENTS.
- CONTRACTOR SHALL FURNISH AND INSTALL SECURITY CAMERAS IN ACCORDANCE WITH PLANS AND SPECIFICATIONS FOR THE SAME. LOCATIONS AND POWER CONNECTIONS SHALL BE COORDINATED WITH THE UNIVERSITY PRIOR TO INSTALLATION.
- COORDINATE TIMING OF ALL UTILITY INSTALLATIONS WITH OWNER.
- UNDERGROUND UTILITY INSTALLATION MARKING TAPE SPECIFICATION
 - a. SCOPE: THE CONTRACTOR SHALL FURNISH AND INSTALL AN UNDERGROUND MARKING TAPE ALONG ALL SEWER, WATER, GAS, AND ELECTRIC MAINS & CONNECTIONS.
 - b. MATERIALS: THE MATERIAL SHALL BE SOLID PLASTIC TAPE WITH A MINIMUM THICKNESS OF .45 MIL. THE TAPE SHALL BE RESISTANT TO ALKALIS, ACIDS AND OTHER DESTRUCTIVE ELEMENTS. THE TAPE SHALL BE GREEN FOR SEWER, BLUE FOR WATER, YELLOW FOR GAS AND RED FOR ELECTRIC, 3" MIN. WIDTH, MARKED WITH THE WORDS "CAUTION - SANITARY SEWER," "CAUTION - WATER," "CAUTION - GAS," AND "CAUTION - ELECTRIC." THE WARNING SHALL BE REPEATED EVERY 16" - 30".
 - c. INSTALLATION: AFTER PARTIALLY BACKFILLING AND LEVELING THE TRENCHES TO A HEIGHT OF 18" - 24" ABOVE THE CROWN OF PIPE/CONDUIT, THE ROLL TAPE SHALL BE MOUNTED ON A WHEEL AND SPREAD ABOVE THE PREPARED SURFACE AS STRAIGHT AS POSSIBLE. THE TAPE SHALL BE HELD IN POSITION BY ADDING BACKFILL AND HAND SHOVELS BEFORE USING MECHANICAL EQUIPMENT TO FINISH THE BACKFILL.
- SANITARY PIPING, STRUCTURES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF ENVIRONMENTAL QUALITY STANDARDS FOR APPROVAL OF PLANS AND CONSTRUCTION FOR SEWAGE DISPOSAL SYSTEMS FOR OTHER THAN SINGLE-FAMILY RESIDENCES, DATED DECEMBER 29, 2017.
- SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES (SCDHS) GENERAL SANITARY SEWER REQUIREMENTS:
- SANITARY PIPING, STRUCTURES, AND ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES DIVISION OF ENVIRONMENTAL QUALITY STANDARDS FOR APPROVAL OF PLANS AND CONSTRUCTION FOR SEWAGE DISPOSAL SYSTEMS FOR OTHER THAN SINGLE-FAMILY RESIDENCES, DATED JULY 21, 2020.
- SEWER LINE REQUIREMENTS:
 - a. GRAVITY SEWER LINES AND FITTINGS SHALL MEET OR EXCEED ASTM STANDARD D-3034 FOR PVC SEWER PIPE WITH A MINIMUM SDR-35 RATING, UNLESS OTHERWISE INDICATED.
 - b. WHERE PIPING AND FITTINGS SHALL BE PROVIDED WITH INTEGRAL BELLS AND SPOOTS AND RUBBER SEALING RINGS, THE SEALING RINGS SHALL MEET THE REQUIREMENTS OF ASTM STANDARD F-477. ALL SEWER LINES SHALL BE STRAIGHT, AND COUPLINGS SHALL BE SECURELY INSTALLED AND BE WATER-TIGHT.
 - c. ALL GRAVITY SEWER LINES SHALL HAVE A MINIMUM DIAMETER OF SIX (6) INCHES AND BE BURIED BELOW GRADE.
 - d. WHERE PRACTICABLE, GRAVITY SEWER LINES SHALL BE INSTALLED IN GROUNDWATER. FOR INSTALLATIONS THAT ARE PLACED IN GROUNDWATER, THE SEWER PIPING SHALL BE CONSTRUCTED OF PRESSURE RATED PIPING AND TESTED TO ENSURE TIGHTNESS PRIOR TO OPERATION. MAXIMUM PERMISSIBLE LEAK RATE IS 1/4" IN 18" INCHES.
 - e. THERE SHALL BE A MINIMUM TWO-FOOT LENGTH OF CAST IRON SEWER LINE EXTENDING THROUGH THE FOUNDATION.
 - f. HOUSE CONNECTIONS SHALL HAVE A MINIMUM PITCH OF 1/4" PER FOOT.
 - g. ALL HOUSE CONNECTION SHALL BE PROVIDED WITH A CLEAN-OUT AT THE FACE OF THE BUILDING.
 - h. HOUSE CONNECTIONS SHALL BE STRAIGHT WITH NO BENDS IN SEWER LINE TO THE MANHOLE.

- a. SEWER MAIN AND LATERAL SEWERS SHALL HAVE A UNIFORM SLOPE AND BE LAID WITH A STRAIGHT ALIGNMENT, WITHOUT BENDS, WHEN REQUIRED. APPROVED MANHOLES MAY BE UTILIZED WHERE SEWERS CHANGE DIRECTION OR SLOPE.
- b. HOUSE OR BUILDING SEWERS SHALL BE CONNECTED TO MAIN OR LATERAL SEWERS WITH APPROVED WYE FITTINGS.
- c. SEWERS SHALL BE PROVIDED WITH MANHOLES AT INTERVALS NOT TO EXCEED 40 FEET.
- d. HOUSE MAIN AND LATERAL SEWERS SHALL HAVE A MINIMUM DIAMETER OF 8 INCHES, AND SHALL HAVE A MINIMUM SLOPE OF 0.4% TO 10 INCH DIAMETER SEWERS SHALL HAVE A MINIMUM SLOPE OF 0.28%.
- e. SEWER MAIN AND LATERAL SEWERS THAT HAVE LESS THAN 2 FEET OF COVER OR ARE NOT PLACED ON VIRGIN SOIL SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP).
- f. SEWER MAIN AND LATERAL SEWERS THAT HAVE BETWEEN 2 FEET AND 4 FEET OF COVER SHALL BE CONSTRUCTED OF D1818 OR DUCTILE IRON PIPE.
- g. SEWER MAIN AND LATERAL SEWERS THAT HAVE OVER 4 FEET OF COVER MAY UTILIZE SDR-35 PIPE.

21. SEPARATION OF SEWER AND DRAINAGE LINES REQUIREMENTS:

- a. SEWERS SHALL BE LAID AT LEAST 5 FEET HORIZONTALLY FROM ANY DRAINAGE LINE. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.
- b. IN THE EVENT THAT THE DRAINAGE LINE MUST CROSS OVER THE SEWER LINE, THE SEWER LINE MUST BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) UNLESS A SEPARATION DISTANCE OF 18 OR MORE INCHES IS MAINTAINED.
- c. IN THE EVENT THAT THE SEWER LINE MUST CROSS OVER THE DRAINAGE LINE, THE SEWER LINE SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) FOR A DISTANCE OF 3 FEET HORIZONTALLY INTO VIRGIN SOIL.
- d. IF PERIMETER FLOOR DRAINAGE PIPING IS INSTALLED NEAR THE FACE OF THE BUILDING, ALL HOUSE CONNECTIONS MUST BE CONSTRUCTED OF DUCTILE IRON PIPE FOR 10 FEET FROM THE BUILDING.

22. SEPARATION OF SEWER AND WATER LINES REQUIREMENTS:

A. PARALLEL INSTALLATION

- a. SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY WATER MAIN OR LATERAL. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE.

B. CROSSINGS

- a. THE CROSSING OF WATER AND SEWER LINES SHOULD BE AVOIDED UNLESS PROVEN ABSOLUTELY NECESSARY.
- b. IN THE CASE OVER SEWER LINE: IN THE EVENT THAT THE WATER LINE MUST CROSS OVER THE SEWER LINE, THE FOLLOWING CONDITIONS SHALL BE MET:
 - SEWER LINES SHALL BE LAID BELOW THE WATER LINE AND PROVIDE A SEPARATION OF AT LEAST 18 INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE SEWER LINE; AND
 - SEWER LINE JOINTS SHALL BE AT LEAST 10 FEET FROM THE POINT OF CROSSING; AND
 - WHEN IT IS NOT PRACTICAL TO OBTAIN AN 18 INCH SEPARATION, BOTH THE WATER AND SEWER LINES SHALL BE CONSTRUCTED OF PRESSURE PIPE AND HAVE A MINIMUM SEPARATION OF 12 INCHES BETWEEN THE BOTTOM OF THE WATER LINE AND THE TOP OF THE SEWER LINE.
- c. SEWER LINE OVER WATER LINE: IN THE EVENT THAT THE SEWER LINE MUST CROSS OVER THE WATER LINE, THE FOLLOWING CONDITIONS SHALL BE MET:
 - ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO MAINTAIN LINE AND GRADE; AND
 - WATER LINE AND SEWER LINE JOINTS SHALL BE AT LEAST 10 FEET FROM THE POINT OF CROSSING; AND
 - THE ENTIRE LENGTH OF SEWER LINE BETWEEN ADJACENT MANHOLES OR OTHER SANITARY STRUCTURES SHALL BE CONSTRUCTED OF 18 INCHES AND JOINTS SHALL BE EQUIVALENT TO SEWER MAIN MANHOLES OF CONSTRUCTION AND
 - A VERTICAL SEPARATION OF AT LEAST 18 INCHES SHALL BE PROVIDED BETWEEN THE BOTTOM OF THE SEWER LINE AND THE TOP OF THE WATER LINE.

23. ENGINEER OF RECORD IS REQUIRED TO INSPECT ALL SANITARY SEPTIC SYSTEM INSTALLATIONS. CONTRACTOR SHALL NOTIFY ENGINEER 72 HOURS IN ADVANCE OF WORK.

24. CONTRACTOR TO REFER TO PLANS BY OTHERS FOR SEWAGE TREATMENT PLANT (STP) AND SANITARY LEACHING POOL INSTALLATION REQUIREMENTS AND NOTES.

SCHDS REF. #: ____-____-____-____

1. STORMWATER RUNOFF COEFFICIENTS PER TOWN OF RIVERHEAD:
 - a. ROOF = 1.00
 - b. PAVEMENT/IMPERVIOUS = 1.00
 - c. LANDSCAPE/PERVIOUS = 0.20
3. PROVIDE STORMWATER RUNOFF STORAGE FOR 2" RAINFALL PER TOWN OF RIVERHEAD REQUIREMENTS
4. DRYWELL DESIGN CAPACITY:
 - a. 10" DIAMETER = 68.42 CF/IF
 - b. 12" DIAMETER = 100.88 IF/CF
5. ALL PROPOSED DRAINAGE INTERCONNECTING PIPING SHALL BE SMOOTH WALL HDPE WITH A MINIMUM DIAMETER OF 18 INCHES.
6. TOP OF EFFECTIVE DEPTH IN LEACHING STRUCTURES SHALL BE NO HIGHER THAN THE GRATE ELEVATION OF THE LOWEST INLET IN THE IMMEDIATE SYSTEM.

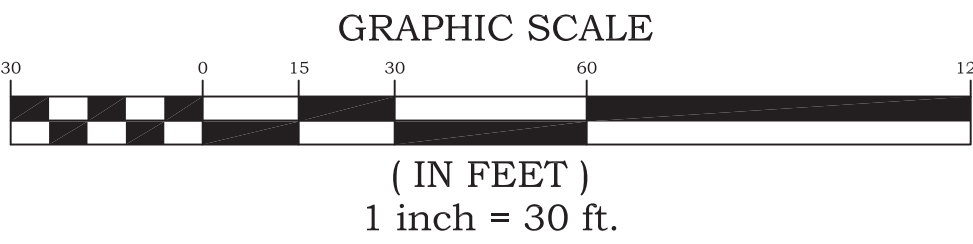
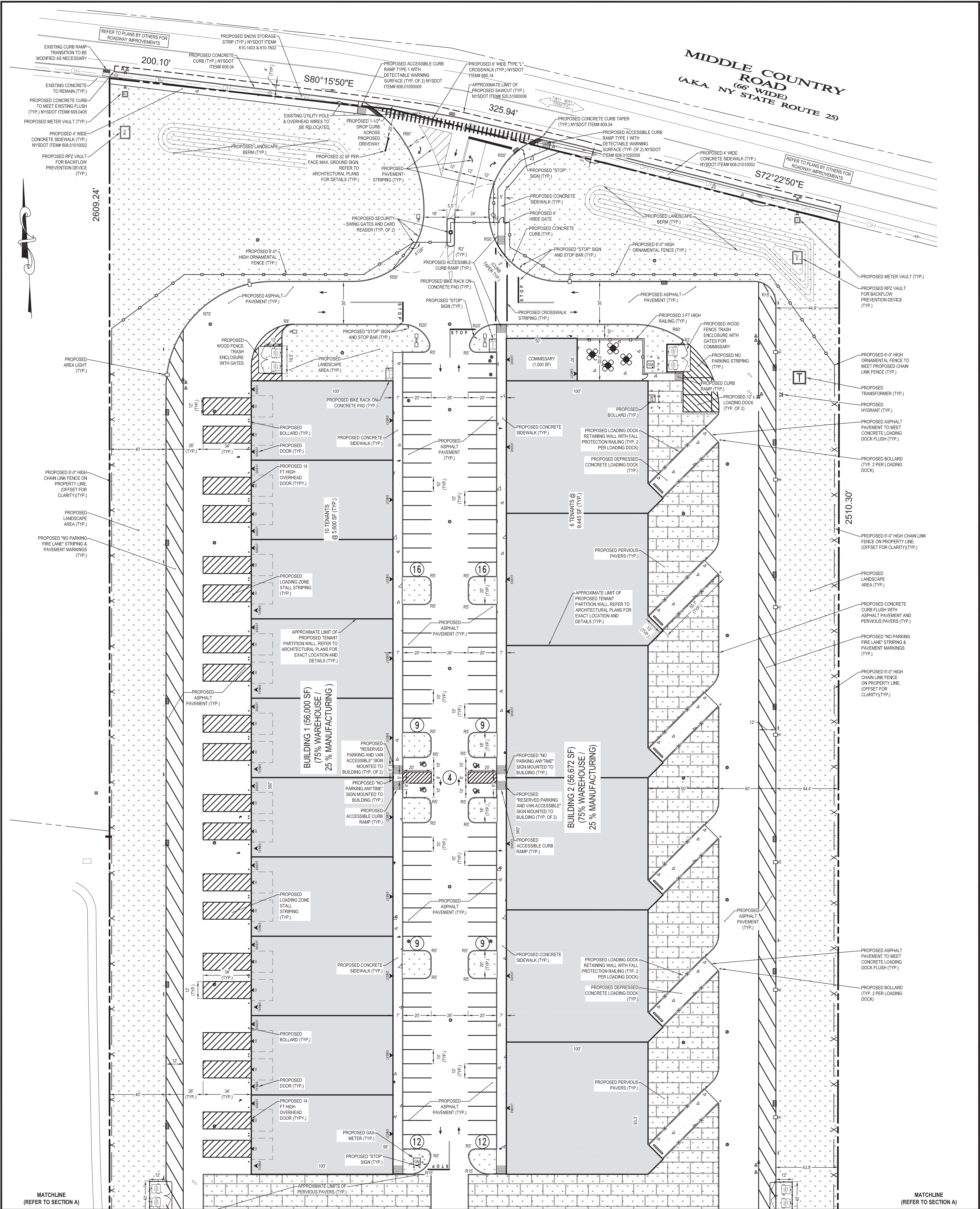


DATE:	01/24/2020
SCALE:	N.T.S.
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP



PROJECT NAME: <div style="text-align: center; font-size: 24pt; font-weight: bold; margin: 10px 0;"> HK VENTURES, LLC INDUSTRIAL PARK </div> 4285 MIDDLE COUNTRY ROAD CALVERTON, NY 11933 TOWN OF RIVERHEAD, COUNTY OF SUFFOLK DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2 ZONE: INDUSTRIAL C	DRAWING TITLE: <div style="text-align: center; font-size: 36pt; font-weight: bold; margin: 10px 0;"> NOTES SHEET </div>
	DRAWING No.: <div style="text-align: center; font-size: 36pt; font-weight: bold; margin: 10px 0;"> C-2 </div>
	PAGE No.: <div style="text-align: center; font-size: 24pt; font-weight: bold; margin: 10px 0;"> 2 OF 35 </div>





REFER TO OVERALL SITE PLAN
(SHEET C-3) FOR BULK ZONING
TABLE & PARKING REQUIREMENTS

No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
4	04/02/2021	LC	RESUBMISSION TO TOWN
3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

SEAL & SIGNATURE

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

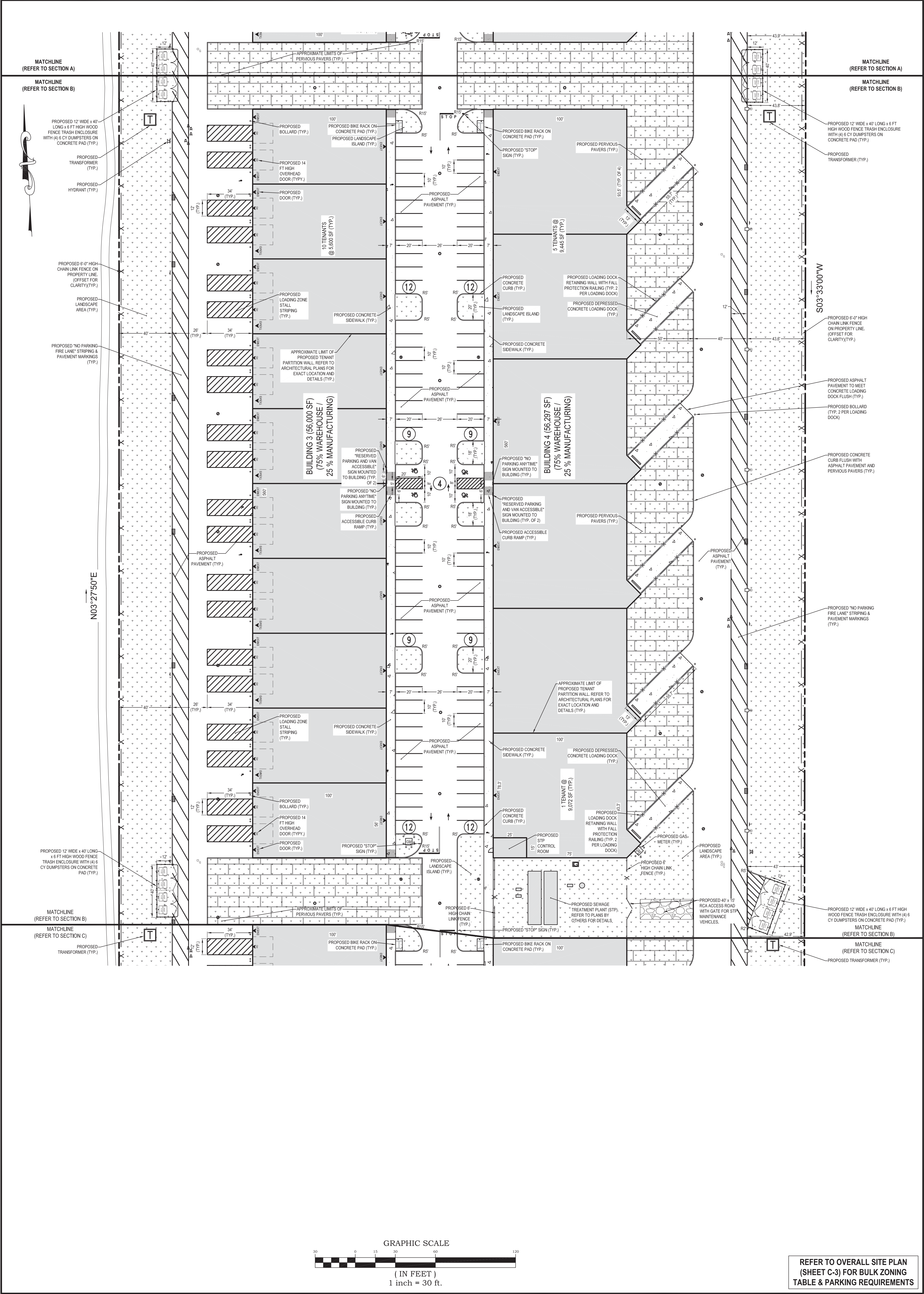
KEY
CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(831) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:
**HK VENTURES, LLC
INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL SITE PLAN
(SECTION A - PHASE I)**

DRAWING No.:
C-4

PAGE No.:
4 OF 35



No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
4	04/02/2021	LC	RESUBMISSION TO TOWN
3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

NEW YORK STATE PROFESSIONAL ENGINEER
JACLYN R. PERANTEAU, P.E.
083997
NEW YORK STATE PROFESSIONAL ENGINEER

SEAL & SIGNATURE
JACLYN R. PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER 083997

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

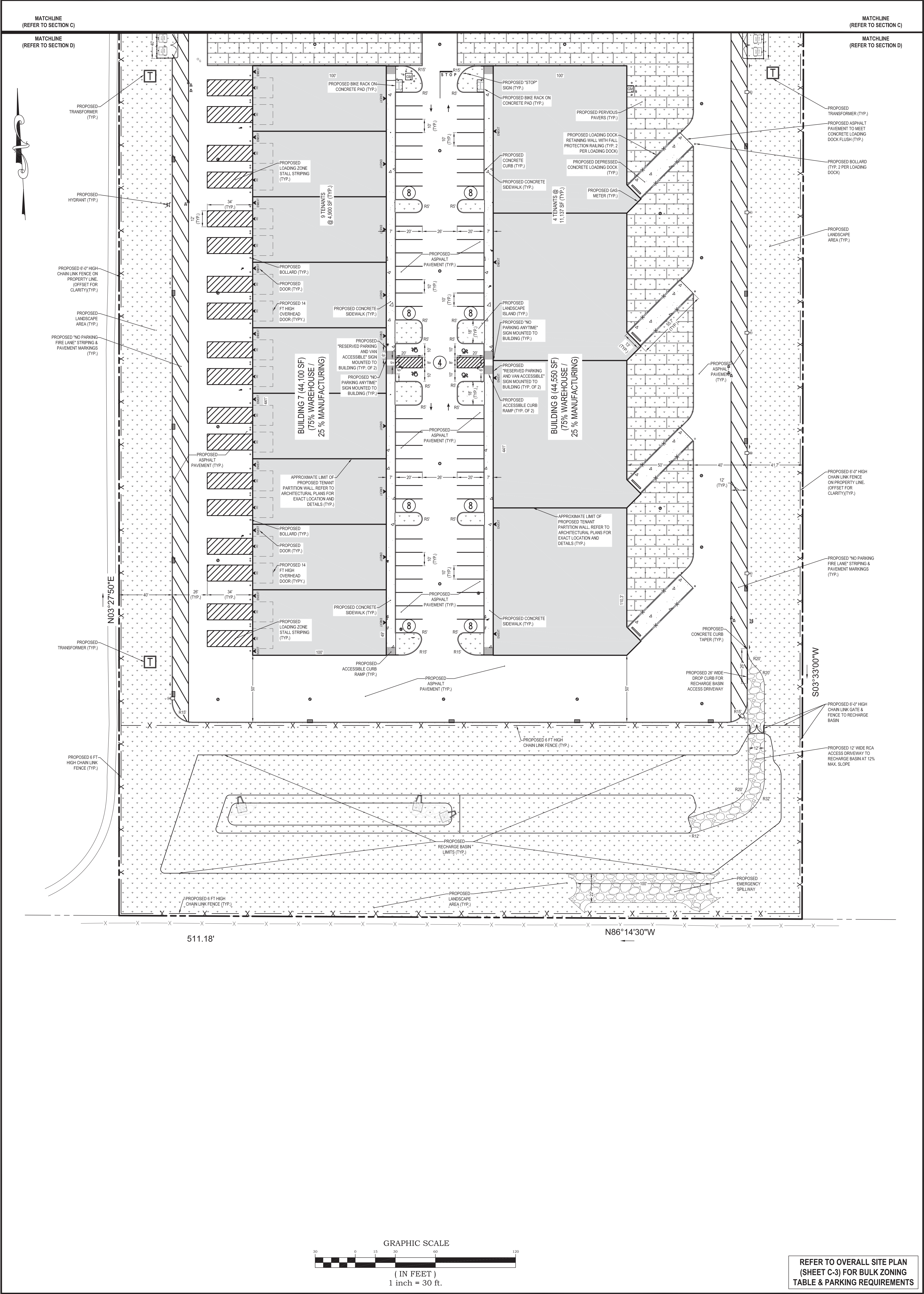
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CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(831) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:
**HK VENTURES, LLC
INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL SITE PLAN
(SECTION B - PHASE I)**

DRAWING No.:
C-5

PAGE No.:
5 OF 35



No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
4	04/02/2021	LC	RESUBMISSION TO TOWN
3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

NEW YORK STATE PROFESSIONAL ENGINEER
EXERCISE AUTHORITY UNDER
EXISTING LICENSE NO. 083937
A VIOLATION OF SECTION 7-090, SUBCHAPTER 2 OF
THE NEW YORK STATE EDUCATION LAW.

SEAL & SIGNATURE

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

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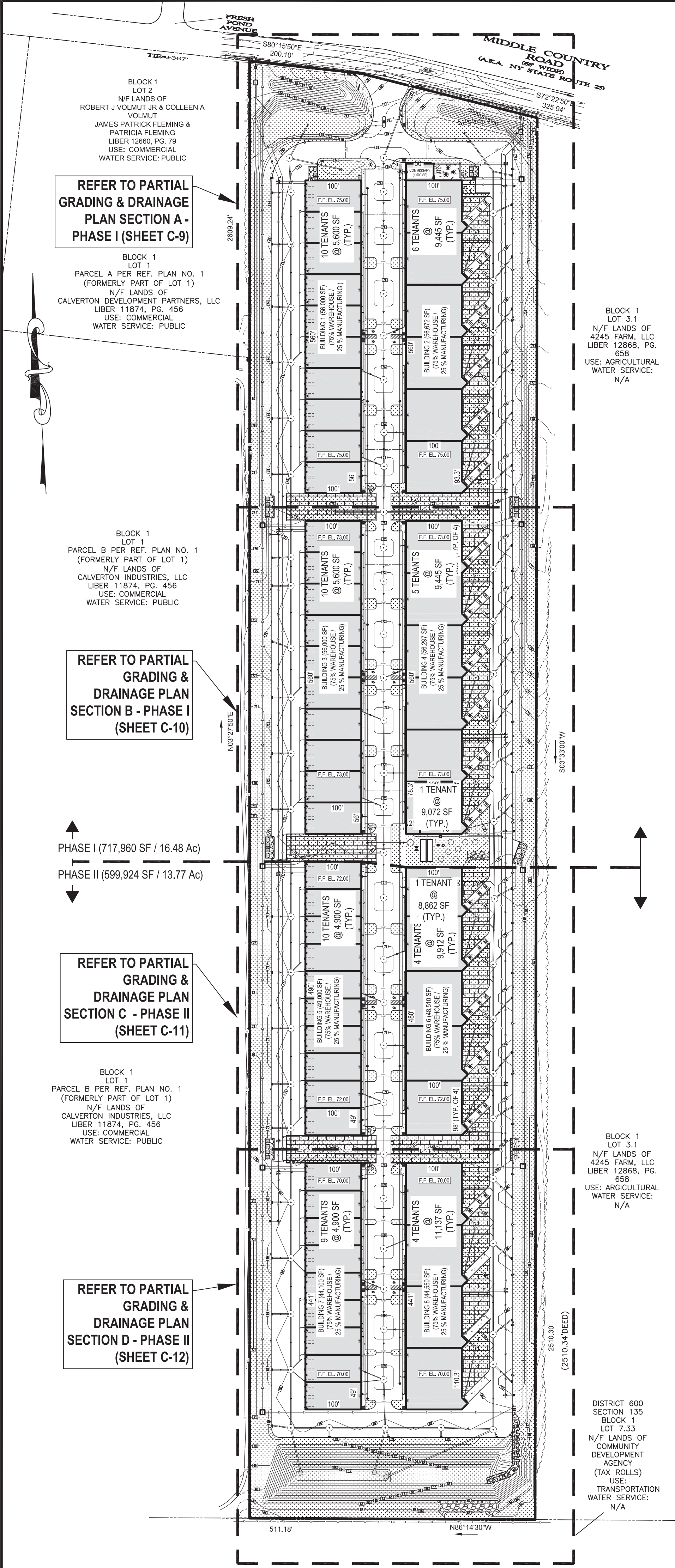
PROJECT NAME:
**HK VENTURES, LLC
INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL SITE PLAN
(SECTION D - PHASE II)**

DRAWING No.:
C-7

PAGE No.:
7 OF 35

REFER TO OVERALL SITE PLAN
(SHEET C-3) FOR BULK ZONING
TABLE & PARKING REQUIREMENTS



STORMWATER DESIGN CALCULATIONS

SITE AREA = 1,317,884 SF (30.2545 ACRES)

TRIBUTARY DRAINAGE AREA A

BUILDING AREA	=	412,629 SF
IMPERVIOUS / PAVEMENT AREA	=	450,659 SF
PERVIOUS LANDSCAPE AREA	=	337,918 SF
PERVIOUS PAVERS AREA	=	116,678 SF
TOTAL	=	1,317,884 SF

STORAGE REQUIRED (PER TOWN OF RIVERHEAD):

BUILDING	=	412,629 SF x (2/12) x 1.00	=	68,772 CF
IMPERVIOUS / PAVEMENT	=	450,659 SF x (2/12) x 1.00	=	75,110 CF
PERVIOUS LANDSCAPE	=	337,918 SF x (2/12) x 0.20	=	11,294 CF
PERVIOUS PAVERS	=	116,678 SF x (2/12) x 0.70	=	13,612 CF
TOTAL STORAGE REQUIRED	=		=	168,758 CF

STORAGE PROVIDED:

RECHARGE BASIN

UPPER VOLUME		
AVERAGE TOP ELEVATION	=	65.00'
AVERAGE BOTTOM ELEVATION	=	55.00'
RECHARGE BASIN HEIGHT	=	10.00'
BOTTOM AREA	=	10,052 SF
TOP AREA	=	39,220 SF
VOLUME OF RECHARGE BASIN	=	$\frac{39,220 \text{ SF} + 10,052 \text{ SF}}{2} \times (65.00' - 55.00') = 246,360 \text{ CF}$

LOWER VOLUME		
AVERAGE TOP ELEVATION	=	55.00'
AVERAGE BOTTOM ELEVATION	=	53.00'
RECHARGE BASIN HEIGHT	=	2.00'
BOTTOM AREA	=	2,726 SF
TOP AREA	=	5,097 SF
VOLUME OF RECHARGE BASIN	=	$\frac{5,097 \text{ SF} + 2,726 \text{ SF}}{2} \times (55.00' - 53.00') = 7,823 \text{ CF}$

RECHARGE BASIN TOTAL STORAGE PROVIDED = 246,360 CF + 7,823 CF = 254,183 CF

DRYWELLS

USE SIXTY-THREE (63) 12" DRYWELLS WITH 8.0' EFFECTIVE STORAGE DEPTH
63 DRYWELLS x 100.88 CF/VF x 8.0 VF = 50,843 CF

USE NINETEEN (19) 12" DRYWELLS WITH 6.0' EFFECTIVE STORAGE DEPTH
19 DRYWELLS x 100.88 CF/VF x 6.0 VF = 11,500 CF

TOTAL DRYWELL STORAGE PROVIDED = 50,843 CF + 11,500 CF = 62,343 CF

TOTAL SITE STORAGE PROVIDED = 254,183 CF + 62,343 CF = 316,526 CF

316,526 CF PROVIDED IS GREATER THAN 168,758 CF REQUIRED, THEREFORE SUFFICIENT STORAGE PROVIDED.

TYPICAL LOADING DOCK TRIBUTARY DRAINAGE AREAS

(FOR BUILDINGS 2, 4, 6, & 8)

CONCRETE LOADING DOCK AREA = 948 SF

ONE (1) LOADING DOCK:

ONE (1) LOADING DOCK = 1 x 948 SF x (2/12) x 1.0 = 158 CF
STORAGE REQUIRED = 158 CF

USE ONE (1) 10" DRYWELL WITH 3.0' EFFECTIVE STORAGE DEPTH
STORAGE PROVIDED = 1 DRYWELL x 68.42 CF/VF x 3.0 VF = 205 CF

205 CF PROVIDED IS GREATER THAN 158 CF REQUIRED, THEREFORE, SUFFICIENT STORAGE PROVIDED

TWO (2) LOADING DOCKS:

TWO (2) LOADING DOCKS = 2 x 948 SF x (2/12) x 1.0 = 316 CF
STORAGE REQUIRED = 316 CF

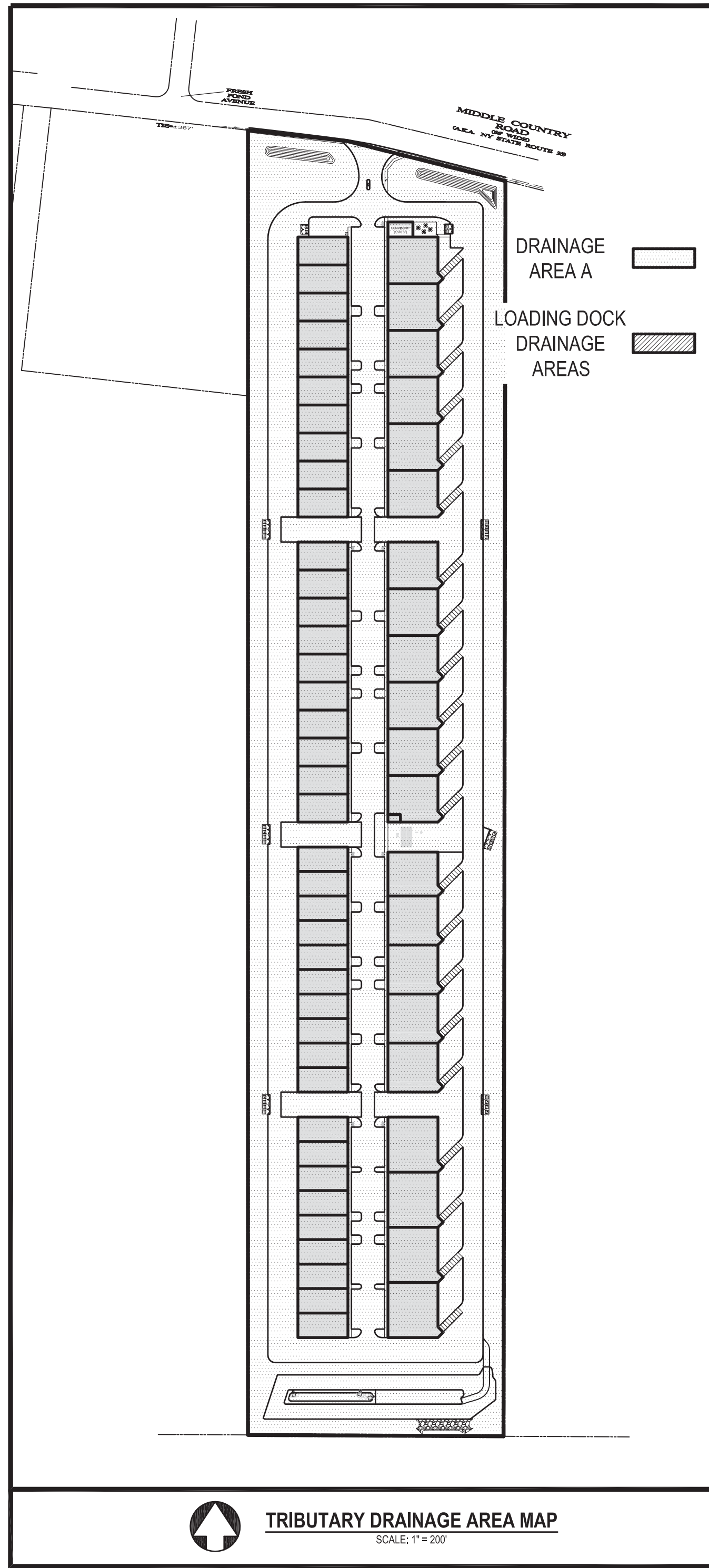
USE ONE (1) 10" DRYWELL WITH 5.0' EFFECTIVE STORAGE DEPTH
STORAGE PROVIDED = 1 DRYWELL x 68.42 CF/VF x 5.0 VF = 342 CF

342 CF PROVIDED IS GREATER THAN 316 CF REQUIRED, THEREFORE, SUFFICIENT STORAGE PROVIDED

DESIGN FOR 100-YEAR STORM EVENT

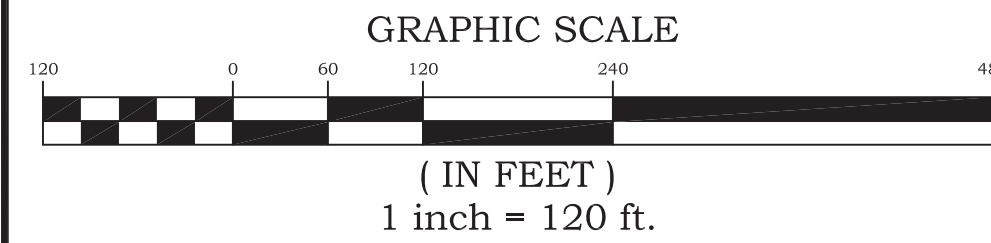
- RECHARGE BASIN AND DRYWELLS DESIGNED TO HANDLE STORMWATER RUNOFF FOR A 100-YEAR STORM EVENT (8.77" RAINFALL OVER A 24 HOUR PERIOD) PER TOWN OF RIVERHEAD ENGINEERING DEPARTMENT & THE NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL REQUIREMENTS. DESIGN UTILIZES A 9" RAINFALL OVER A 24 HOUR PERIOD.
- BASED ON THE HYDROCAD ANALYSIS UTILIZING AN INFILTRATION RATE OF 18.6" / HR (PROVIDED BY TOWN OF RIVERHEAD ENGINEERING DEPARTMENT) AND 100-YEAR STORM EVENT (9" RAINFALL OVER A 24 HOUR PERIOD), THE REQUIRED VOLUME FOR THE ENTIRE SITE IS 269,631 CF (6.88 AC-FT) (REFER TO STORMWATER ENGINEERING REPORT ENCLOSED WITHIN THE STORMWATER POLLUTION PREVENTION REPORT FOR DETAILED CALCULATIONS).
- THE PROPOSED RECHARGE BASIN AND EIGHTY-TWO (82) DRYWELLS PROVIDE A VOLUME OF 316,526 CF (7.27 AC-FT) USING AN INFILTRATION RATE OF 18.6" / HR.

316,526 CF (7.27 AC-FT) PROVIDED IS GREATER THAN 269,631 CF (6.88 AC-FT) REQUIRED, THEREFORE SUFFICIENT STORAGE PROVIDED.



TRIBUTARY DRAINAGE AREA MAP

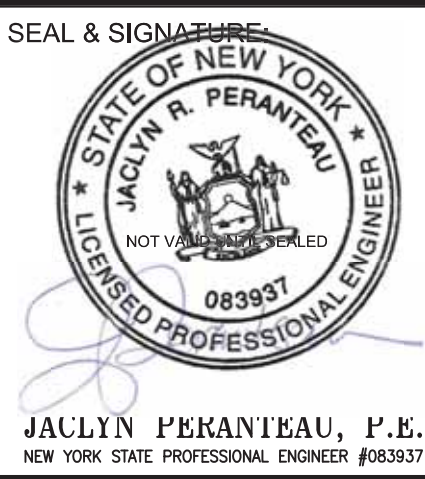
SCALE: 1" = 200'



LEGEND		
SCALE OF SYMBOLS = 1" = 120'		
EXISTING	ITEM	PROPOSED
	PROPERTY LINE	
	BUILDING	
	CONCRETE CURB	
	CONCRETE SIDEWALK	
	LANDSCAPE AREA	
	PERVIOUS PAVERS	
	DUMPSTER ENCLOSURE	
	12' x 34' LOADING SPACE	
	LOADING DOCK	
	RETAINING WALLS	
	PARKING CURB	
	OVERHEAD DOOR	
	DOOR	
	FENCE	
	BIKE RACK	
	HYDRANT	

LEGEND		
SCALE OF SYMBOLS = 1" = 30' (REFER TO PARTIAL GRADING & DRAINAGE PLANS)		
EXISTING	ITEM	PROPOSED
	PROPERTY LINE	
	BUILDING	
	CONCRETE CURB	
	EDGE OF PAVEMENT	
	CONCRETE SIDEWALK	
	LANDSCAPE AREA	
	PERVIOUS PAVERS	
	TRASH ENCLOSURE	
	BIKE RACK MOUNTED ON CONCRETE PAD	
	OVERHEAD DOOR	
	LOADING DOCK WALL WITH FALL PROTECTION RAILING	
	DOOR	
	SIGN	
	FIRE HYDRANT	
	UTILITY POLE	
	GROUND SIGN	
	FENCE	
	POLE MOUNTED LIGHTING	
	DRYWELL	
	2'-5" x 4'-0" CONCRETE CURB INLET	
	4'0" DRAINAGE MANHOLE	
	24" NYLOPLAST DRAIN BASIN	
	CONCRETE HEADWALL	
	36" HDPE DRAINAGE PIPE	
	24" HDPE DRAINAGE PIPE	
	18" HDPE DRAINAGE PIPE	
	10" PVC ROOF DRAIN PIPE	
	ELEVATION CONTOUR	
	TW TOP OF WALL / BW BOTTOM OF WALL / P PAVEMENT ELEVATION	
	TC TOP OF CURB / BC BOTTOM OF CURB ELEVATION	
W	WATER / FIRE SERVICE	W
	ELECTRIC SERVICE	E
G	GAS SERVICE	G
OH	OVERHEAD WIRES	OH
	SOL. BORING	B-1

No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
4	04/02/2021	LC	RESUBMISSION TO TOWN
3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW
REVISIONS			



DATE:	01/24/2020
SCALE:	1" = 120'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP



PROJECT NAME:

**HK VENTURES, LLC
INDUSTRIAL PARK**

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:

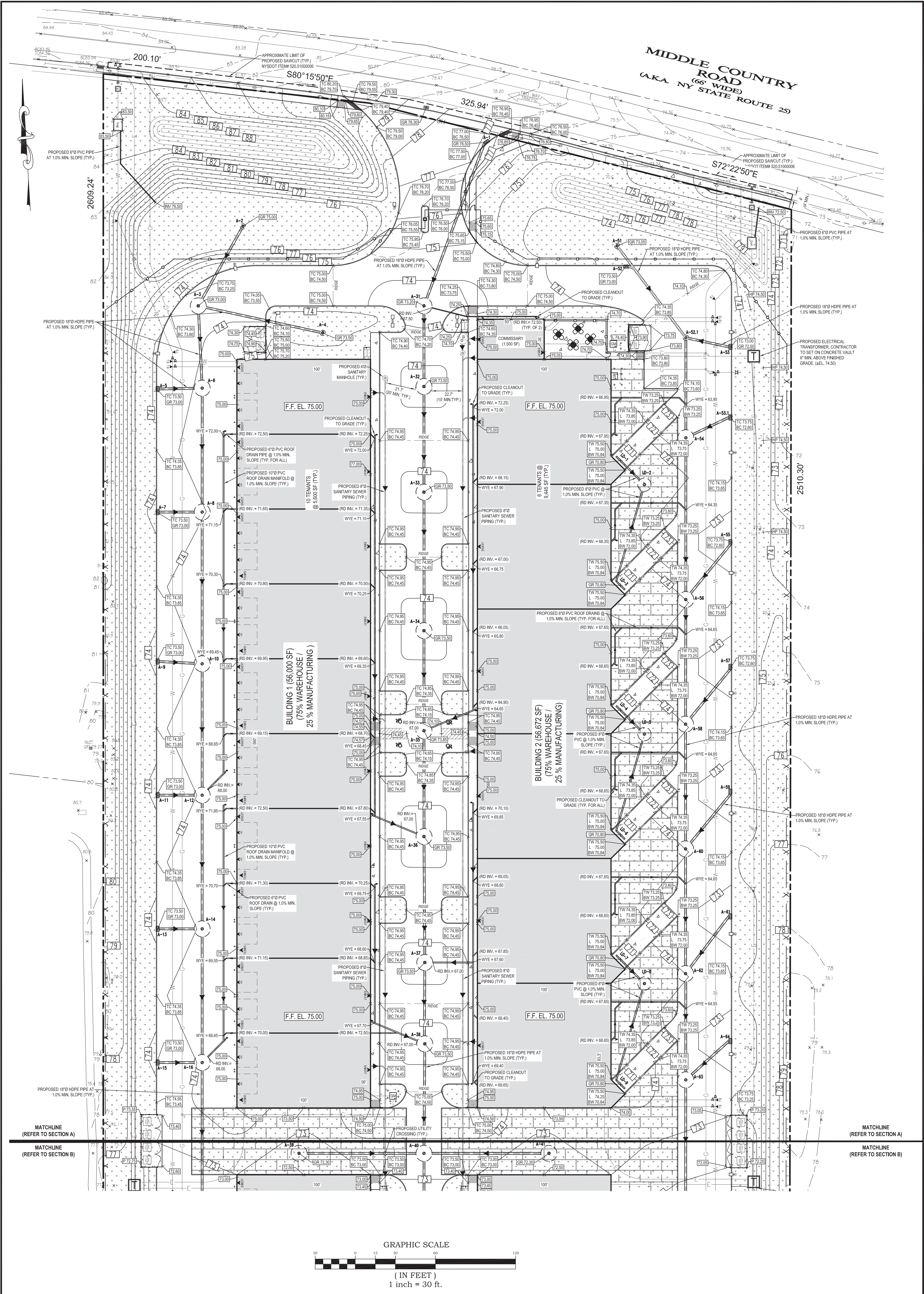
**OVERALL GRADING &
DRAINAGE PLAN**

DRAWING No.:

C-8

PAGE No.:

8 OF 35



No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
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3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

SEAL & SIGNATURE

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

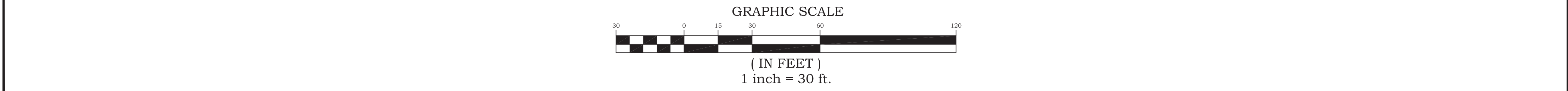
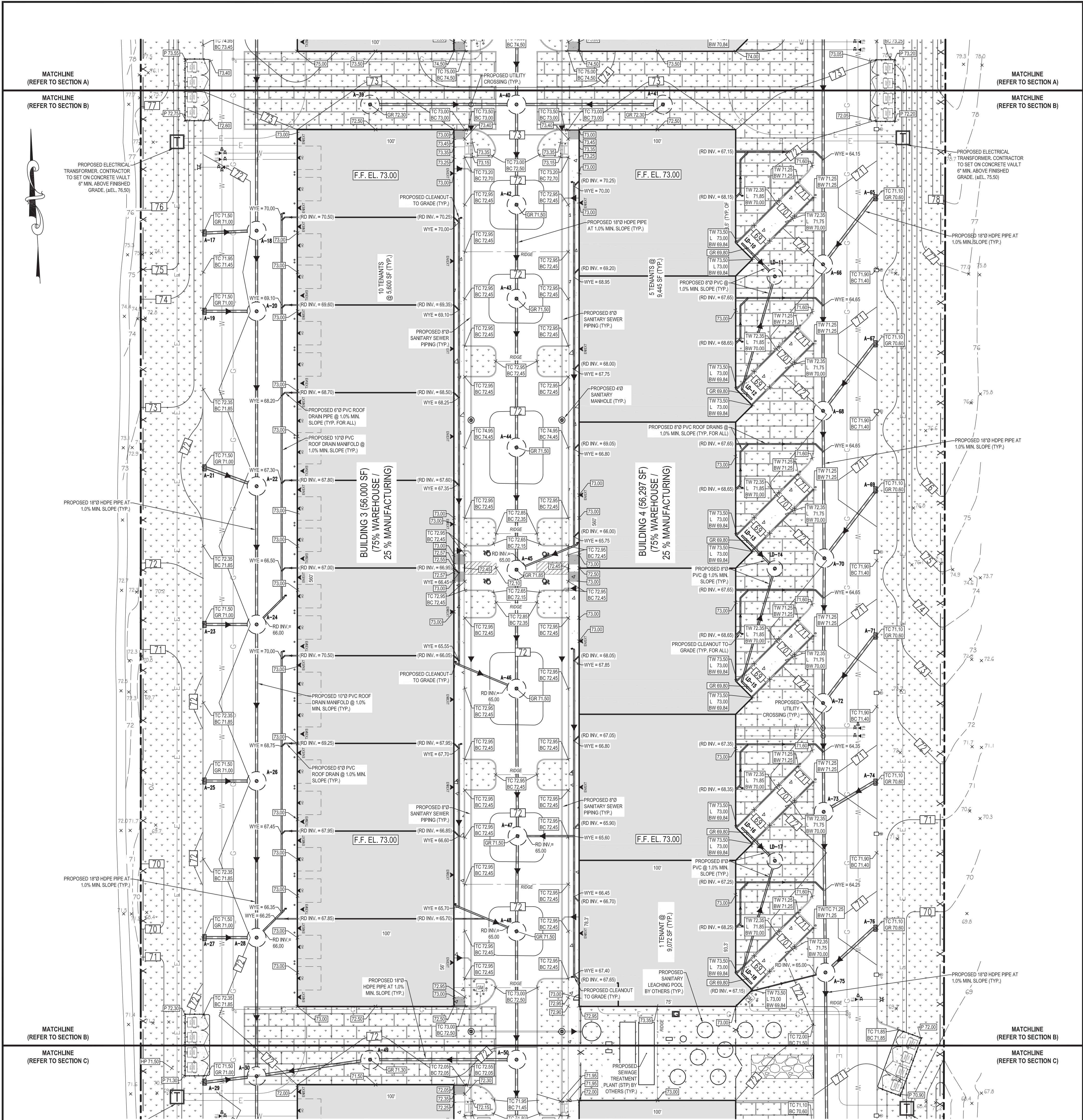
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664 BLUE POINT ROAD, UNIT B
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(831) 951-0505
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PROJECT NAME:
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INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL GRADING & DRAINAGE
PLAN (SECTION A - PHASE I)**

DRAWING No.:
C-9

PAGE No.:
9 OF 35



DRAINAGE STRUCTURE SCHEDULE							
STRUCTURE NUMBER	STRUCTURE TYPE	EFFECTIVE DEPTH	RIM/GRATE	TOP OF RINGS / STRUCTURE	BOTTOM OF RINGS / STRUCTURE	INVERT IN	INVERT OUT
A-1	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	76.50	—	—	73.25	72.25
A-2	PROPOSED 4'0" PRECAST CATCH BASIN WITH FRAME AND GRATE	—	75.00	—	—	71.00	70.00
A-3	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.00	68.00	58.00	63.50	65.00
A-4	PROPOSED 4'0" PRECAST CATCH BASIN WITH FRAME AND GRATE	—	73.50	—	—	69.80	68.80
A-5	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-6	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	74.20	69.00	59.00	63.50	65.00
A-7	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-8	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.95	68.00	58.00	63.50	65.00
A-9	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-10	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	74.20	69.00	59.00	63.50	65.00
A-11	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-12	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	74.20	69.00	59.00	63.50	65.00
A-13	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-14	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	74.20	69.00	59.00	63.50	65.00
A-15	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-16	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	74.20	69.00	59.00	63.50	65.00
A-17	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-18	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-19	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-20	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-21	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-22	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-23	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-24	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-25	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-26	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-27	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-28	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	72.20	67.00	57.00	63.50	65.00
A-29	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	71.00	—	—	67.50	66.50
A-30	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	71.75	67.00	57.00	63.50	65.00
A-31	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.20	68.00	58.00	63.50	65.00
A-32	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00
A-33	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00
A-34	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00
A-35	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.85	68.00	58.00	63.50	65.00
A-36	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00
A-37	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00
A-38	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	6'-0"	73.50	68.00	58.00	63.50	65.00

DRAINAGE STRUCTURE SCHEDULE							
STRUCTURE NUMBER	STRUCTURE TYPE	EFFECTIVE DEPTH	RIM/GRATE	TOP OF RINGS / STRUCTURE	BOTTOM OF RINGS / STRUCTURE	INVERT IN	INVERT OUT
A-39	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	72.30	68.00	57.00	63.50	65.00
A-40	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	73.75	68.00	57.00	63.50	65.00
A-41	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	72.30	67.00	57.00	63.50	65.00
A-42	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-43	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-44	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-45	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND ADA GRATE	8'-0"	71.85	66.00	57.00	63.50	65.00
A-46	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-47	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-48	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.50	66.00	57.00	63.50	65.00
A-49	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND GRATE	8'-0"	71.30	66.00	57.00	63.50	65.00
A-50	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.30	66.00	57.00	63.50	65.00
A-51	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.85	67.85
A-52	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.00	—	—	69.50	68.50
A-52.1	PROPOSED 4'0" PRECAST CATCH BASIN WITH FRAME AND GRATE	—	73.15	—	—	69.00	67.00
A-53	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.50	—	—	69.00	68.00
A-53.1	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.60	—	—	69.10	68.10
A-54	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	6'-0"	72.40	69.00	59.00	63.50	65.00
A-55	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	73.60	—	—	69.10	68.10
A-56	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	6'-0"	73.75	69.00	59.00	63.50	65.00
A-57	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.80	—	—	69.10	68.10
A-58	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	73.75	69.00	59.00	63.50	65.00
A-59	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.50	—	—	69.10	68.10
A-60	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	6'-0"	73.75	69.00	59.00	63.50	65.00
A-61	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.60	—	—	69.10	68.10
A-62	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	73.75	69.00	57.00	63.50	65.00
A-63	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	73.50	69.00	57.00	63.50	65.00
A-64	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	72.80	—	—	69.10	68.10
A-65	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	70.85	—	—	67.10	66.10
A-66	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.75	66.00	57.00	63.50	65.00
A-67	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	70.60	—	—	67.10	66.10
A-68	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.75	66.00	57.00	63.50	65.00
A-69	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	70.60	—	—	67.10	66.10
A-70	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.75	66.00	57.00	63.50	65.00
A-71	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	70.60	—	—	67.10	66.10
A-72	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.75	66.00	57.00	63.50	65.00
A-73	PROPOSED 12'0" PRECAST DRYWELL WITH HIGH DOME, FRAME, AND SOLID COVER	8'-0"	71.50	66.00	57.00	63.50	65.00
A-74	PROPOSED 2'-6" x 4' PRECAST CATCH BASIN WITH FRAME AND CURB INLET	—	70.60	—	—	67.10	66.10

No.	DATE	BY	DESCRIPTION
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4	04/02/2021	LC	RESUBMISSION TO TOWN
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1	05/15/2020	LC	ISSUED FOR REVIEW

SEAL & SIGNATURE OF
JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

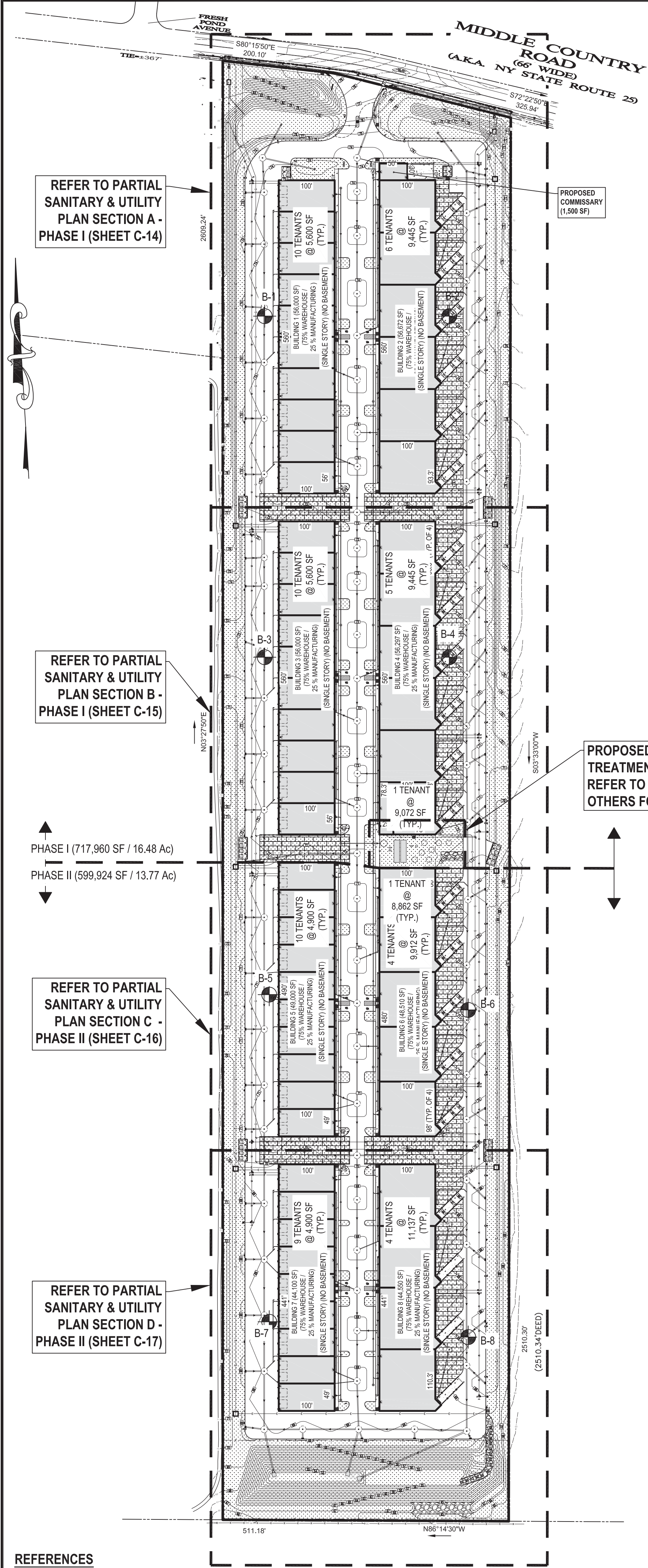
KEY
CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(831) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:
**HK VENTURES, LLC
INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL GRADING & DRAINAGE PLAN
(SECTION B - PHASE I)**

DRAWING No.:
C-10

PAGE No.:
10 OF 35



REFERENCES

THIS PLAN REFERENCES:

BOUNDARY & TOPOGRAPHICAL SURVEY PREPARED BY:
GALLAS SURVEYING GROUP
2865 US ROUTE 1
NORTH BRUNSWICK, NY 08902
DATED: 11/08/2019

ARCHITECTURAL PLANS & RENDERINGS PREPARED BY:
BLD ARCHITECTURE, P.C.
31 WEST MAIN STREET, SUITE 205
PATCHOGUE, NY 11772
DATED: 12/02/2021

SEWAGE TREATMENT PLANT (STP) PLANS PREPARED BY:
P.W. GROSSER CONSULTING ENGINEER & HYDROGEOLOGIST, P.C.
630 JOHNSON AVENUE, SUITE 7
BOHEMIA, NY 11716
DATED: 05/12/2020

ROADWAY MODIFICATION PLANS PREPARED BY:
STONEFIELD ENGINEERING & DESIGN
92 PARK AVENUE
RUTHERFORD, NJ 07070
DATED: 06/19/2020

GEOTECHNICAL EVALUATION REPORT PREPARED BY:
J.R. HOLZWACHER P.E., LLC
3555 VETERANS MEMORIAL HIGHWAY, SUITE A
RONKONKOMA, NY 11779
DATED: 03/19/2021

SOIL BORING LOGS & PERCOLATION RATE INFORMATION PREPARED BY:
SLACKE TEST BORING CO.
P.O. BOX 64
KINGS PARK, NY 11754
BORINGS 1 - 4
DATED: 11/08/2019
BORINGS 5 - 8
DATED: 02/12/2021
PERCOLATION TEST
DATED: 02/12/2021

VICINITY MAP BACKGROUND DATA PROVIDED BY
MAPS.GOOGLE.COM



GENERAL NOTES

- OWNER / APPLICANT
HK VENTURES, LLC
147 STEAMBOAT ROAD
GREAT NECK, NY 11024
c/o SCOTT JOHNS
- PROPERTY KNOWN AS
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, SUFFOLK COUNTY
SCTM No.: 0600-116.00-01.00-002.000
LOT AREA: 1,317,884 SF (30.2545 ACRES)
- THERE ARE NO KNOWN EXISTING WELLS PRESENT WITHIN 150' OF THE SUBJECT PROPERTY.
- THERE ARE NO MAPPED DEC WETLANDS / SURFACE WATERS WITHIN 300' OF PROPERTY BOUNDARY
- THE CONTRACTOR MUST NOTIFY THE TOWN OF RIVERHEAD ENGINEERING DIVISION AND SCODS 48 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY ON-SITE DRAINAGE, SANITARY, CURB, OR PAVING WORK.
- IF WET CONDITION IS ENCOUNTERED, CONTRACTOR SHALL USE 3/4" CLEAN WASHED STONE IN LIEU OF SAND BACKFILL.
- SEE SHEET C-2, NOTE SHEET FOR ADDITIONAL NOTES.
- THE CONTRACTOR MUST NOTIFY THE TOWN ENGINEERING DIVISION AND SCODS 24 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY ON-SITE DRAINAGE, SANITARY, CURB, OR PAVING WORK.

COMMISSARY KITCHEN WASTE CALCULATIONS

KITCHEN FLOW
COMMISSARY: 40 SEATS = 40 SEATS x 2.5 GPD / SEAT = 100 GPD
TOTAL FLOW REQUIRED = 100 GPD

GREASE TRAP (GT-1)

MINIMUM REQUIRED CAPACITY = 1 DAY KITCHEN FLOW
= 100 GPD x 1 DAY = 100 GALLONS

USE ONE (1) 8'0" GREASE TRAP WITH 5.0' LIQUID DEPTH
CAPACITY = 1 x 5.0' x 300 GAL/VF = 1,500 GALLONS (MINIMUM SYSTEM REQUIRED)
(EXCEEDS REQUIRED CAPACITY OF 100 GALLONS)

SANITARY DENSITY CALCULATIONS

SITE IS LOCATED IN GROUNDWATER MANAGEMENT ZONE III = 300 GPD/ACRE
PERMITTED DENSITY = 30.2545 ACRES x 300 GPD/ACRE = 9,076 GPD

PHASE I
PROPOSED COMMISSARY FLOW (COMMISSARY NOT OPEN TO PUBLIC) - 0.04 GPD / SF x 1,500 SF = 60 GPD
PROPOSED BUILDING 1 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 56,000 SF = 2,240 GPD
PROPOSED BUILDING 2 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 56,672 SF = 2,267 GPD
PROPOSED BUILDING 3 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 56,000 SF = 2,240 GPD
PROPOSED BUILDING 4 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 56,297 SF = 2,252 GPD
PHASE I TOTAL = 9,059 GPD

PHASE II
PROPOSED BUILDING 5 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 49,000 SF = 1,960 GPD
PROPOSED BUILDING 6 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 48,510 SF = 1,941 GPD
PROPOSED BUILDING 7 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 44,100 SF = 1,764 GPD
PROPOSED BUILDING 8 FLOW (GENERAL INDUSTRIAL) - 0.04 GPD / SF x 44,550 SF = 1,782 GPD
PHASE II TOTAL = 7,447 GPD

PHASE I + PHASE II TOTAL = 16,506 GPD

7,430 GPD OVER PERMITTED DENSITY. SEWAGE TREATMENT PLANT (STP) PROPOSED. REFER TO PLANS BY OTHERS FOR STP DETAILS.

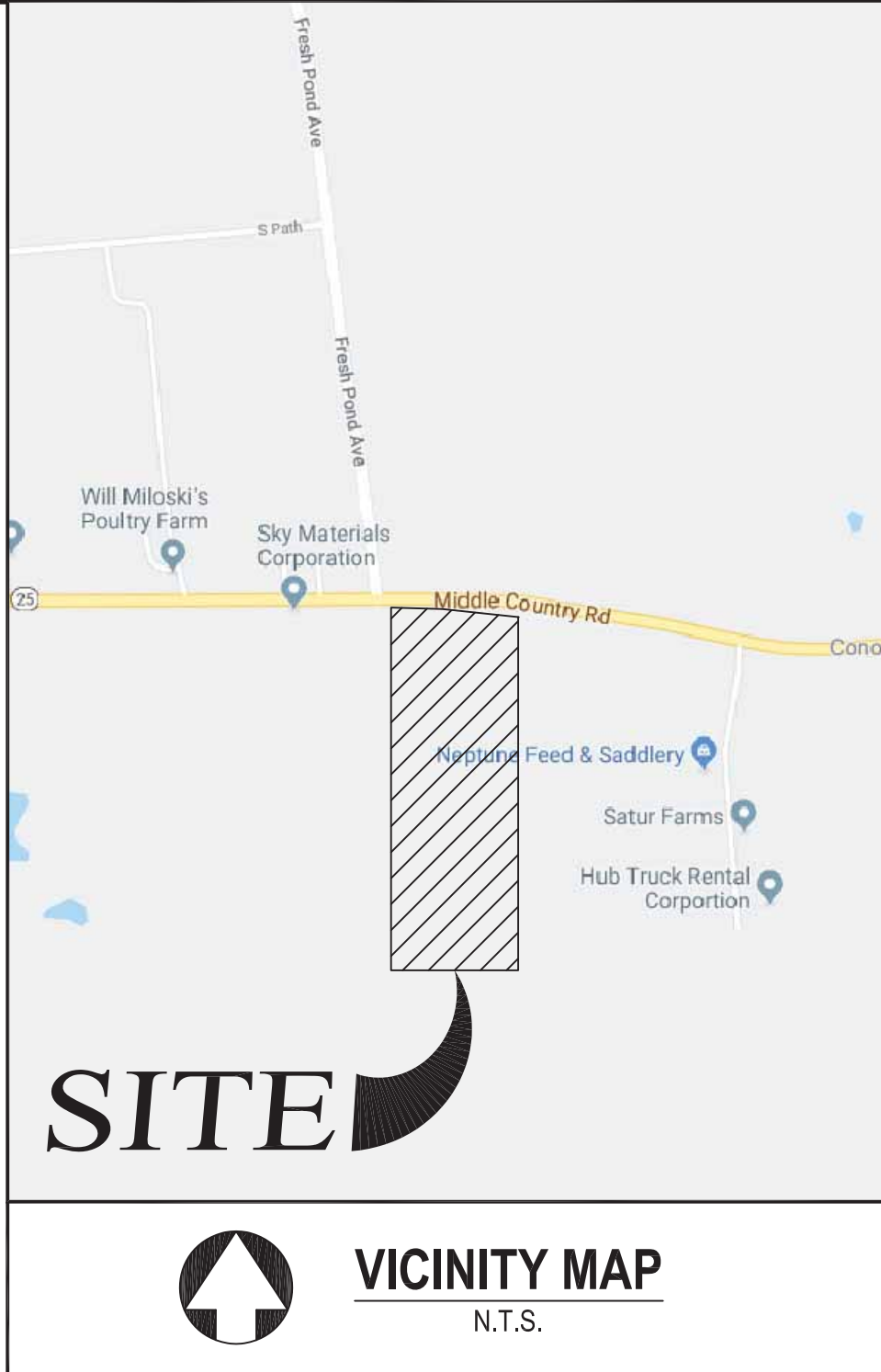
PROJECT DATA

SITE ADDRESS	4285 MIDDLE COUNTRY ROAD CALVERTON, NY 11933
OWNER / APPLICANT	HK VENTURES, LLC 147 STEAMBOAT ROAD GREAT NECK, NY 11024 c/o SCOTT JOHNS
TAX MAP NUMBER	DISTRICT: 600, SECTION: 116, BLOCK: 1, LOT: 2
SITE AREA	1,317,884 SF (30.2545 Ac)
CURRENT ZONING	INDUSTRIAL C
EXISTING USE	VACANT
PROPOSED USE	PRIMARY USES: WAREHOUSE & MANUFACTURING (INDOOR)
PROPOSED BUILDING AREA (GFA)	PHASE I BUILDING 1 = 56,000 SF BUILDING 2 = 56,672 SF BUILDING 3 = 56,000 SF BUILDING 4 = 56,297 SF COMMISSARY = 1,500 SF TOTAL = 226,469 SF PHASE II (TO BE CONSTRUCTED ONCE PHASE I IS COMPLETED AND OPERATING) BUILDING 5 = 49,000 SF BUILDING 6 = 48,510 SF BUILDING 7 = 44,100 SF BUILDING 8 = 44,550 SF TOTAL = 186,160 SF PHASE I + PHASE II = 412,629 SF (31.31%)
PERVIOUS PAVERS / LANDSCAPE AREA	PERVIOUS PAVER AREA = 118,687 SF LANDSCAPE AREA = 335,909 SF TOTAL PAVER / LANDSCAPE AREA = 454,596 SF (34.49%)
IMPERVIOUS / PAVEMENT / CONCRETE AREA (EXCLUDES BUILDING AREAS)	450,659 SF (34.20%)

SCTM #: 600-116-1-2

SCHDS REF. #: - - - - -

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL



LEGEND		
SCALE OF SYMBOLS = 1" = 30' (REFER TO PARTIAL SANITARY & UTILITY PLANS)		
EXISTING	ITEM	PROPOSED
---	PROPERTY LINE	---
▨	BUILDING	▨
---	CONCRETE CURB	---
---	EDGE OF PAVEMENT	---
---	CONCRETE SIDEWALK	---
---	LANDSCAPE AREA	---
---	PERVIOUS PAVERS	---
---	TRASH ENCLOSURE	---
---	BIKE RACK MOUNTED ON CONCRETE PAD	---
---	OVERHEAD DOOR	---
---	LOADING DOCK WALL WITH FALL PROTECTION RAILING	---
---	DOOR	---
---	SIGN	---
---	FIRE HYDRANT	---
---	UTILITY POLE	---
---	GROUND SIGN	---
---	FENCE	---
---	POLE MOUNTED LIGHTING	---
---	DRYWELL	---
---	2'-6" x 4'-0" CONCRETE CURB INLET	---
---	4'-0" DRAINAGE MANHOLE	---
---	24" NYLOPLAST DRAIN BASIN	---
---	CONCRETE HEADWALL	---
---	36" HDPE DRAINAGE PIPE	---
---	24" HDPE DRAINAGE PIPE	---
---	18" HDPE DRAINAGE PIPE	---
---	10" PVC ROOF DRAIN PIPE	---
---	ELEVATION CONTOUR	---
---	WATER / FIRE SERVICE	---
---	ELECTRIC SERVICE	---
---	GAS SERVICE	---
---	OVERHEAD WIRES	---
---	WATER VALVE	---
---	THRUST BLOCK	---
---	GAS VALVE	---
---	SOIL BORING	---
---	SANITARY STRUCTURE	---
---	6"0 PVC (SDR-35) SANITARY PIPE	---
---	CONCRETE THRUST BLOCK	---

REFER TO SHEET C-18, SANITARY DETAILS & BORINGS FOR ADDITIONAL INFORMATION

No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
5	12/15/2021	LC	FEIS SUBMISSION
4	04/02/2021	LC	RESUBMISSION TO TOWN
3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

SEAL & SIGNATURE

JACLYN R. PERANTEAU, P.E.

NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE: 01/24/2020

SCALE: 1" = 120'

PROJECT No.: 19026

DRAWING BY: LC

CHECKED BY: YT

APPROVED BY: JP

KEY

CIVIL ENGINEERING

664 BLUE POINT ROAD, UNIT B

HOLTSVILLE, NEW YORK 11742

(831) 961-0506

www.KeyCivilEngineering.com

PROJECT NAME:

HK VENTURES, LLC

INDUSTRIAL PARK

4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933

TOWN OF RIVERHEAD, COUNTY OF SUFFOLK

DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2

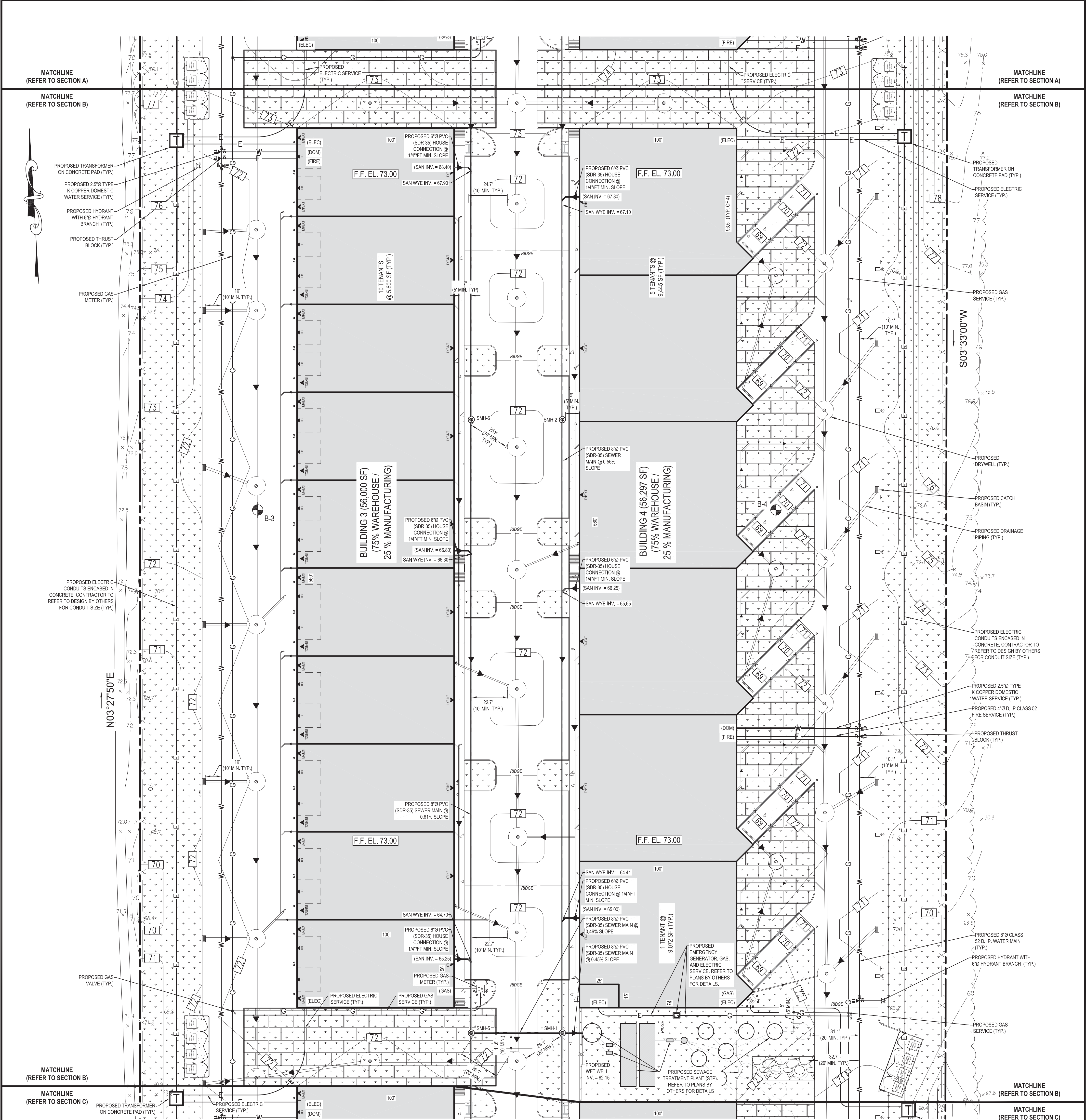
ZONE: INDUSTRIAL C

DRAWING TITLE:

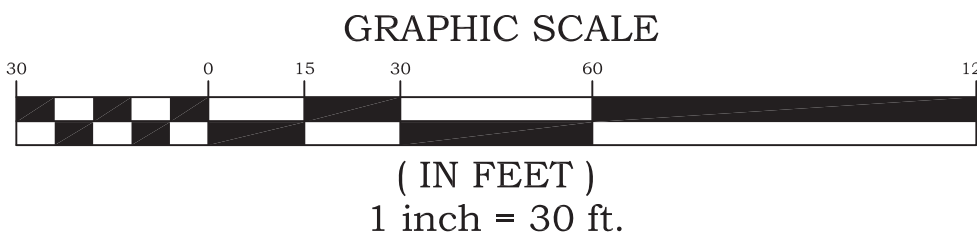
OVERALL SANITARY & UTILITY PLAN

DRAWING No.: **C-13**

PAGE No.: 13 OF 35



SANITARY STRUCTURE SCHEDULE							
STRUCTURE NUMBER	STRUCTURE TYPE	EFFECTIVE DEPTH	RIM/GRATE	TOP OF RINGS	BOTTOM OF RINGS	INVERT IN	INVERT OUT
GT-1	PROPOSED 10\"/>	5'-0"	A. 74.40 B. 74.35	72.40	66.40	71.70	71.20
SMH-1	PROPOSED 4\"/>	---	72.70	---	---	N. = 64.00 S. = 62.30 W. = 62.30	E. = 62.20
SMH-2	PROPOSED 4\"/>	---	72.40	---	---	66.36	66.26
SMH-3	PROPOSED 4\"/>	---	74.40	---	---	68.68	68.58
SMH-4	PROPOSED 4\"/>	---	74.40	---	---	71.10	71.00
SMH-5	PROPOSED 4\"/>	---	72.25	---	---	N. = 64.45 S. = 62.65	E. = 62.55
SMH-6	PROPOSED 4\"/>	---	72.40	---	---	66.95	66.85
SMH-7	PROPOSED 4\"/>	---	74.40	---	---	69.50	69.40
SMH-8	PROPOSED 4\"/>	---	74.40	---	---	---	71.80
SMH-9	PROPOSED 4\"/>	---	71.40	---	---	64.37	64.27
SMH-10	PROPOSED 4\"/>	---	69.40	---	---	66.05	65.95
SMH-11	PROPOSED 4\"/>	---	69.40	---	---	---	66.85
SMH-12	PROPOSED 4\"/>	---	71.40	---	---	64.20	64.10
SMH-13	PROPOSED 4\"/>	---	69.40	---	---	66.10	66.00
SMH-14	PROPOSED 4\"/>	---	69.40	---	---	---	66.84



SCTM #: 600-116-1-2
SCHDS REF. #:

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL

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2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

SEAL & SIGNATURE OF JACLYN PERANTEAU, P.E. NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

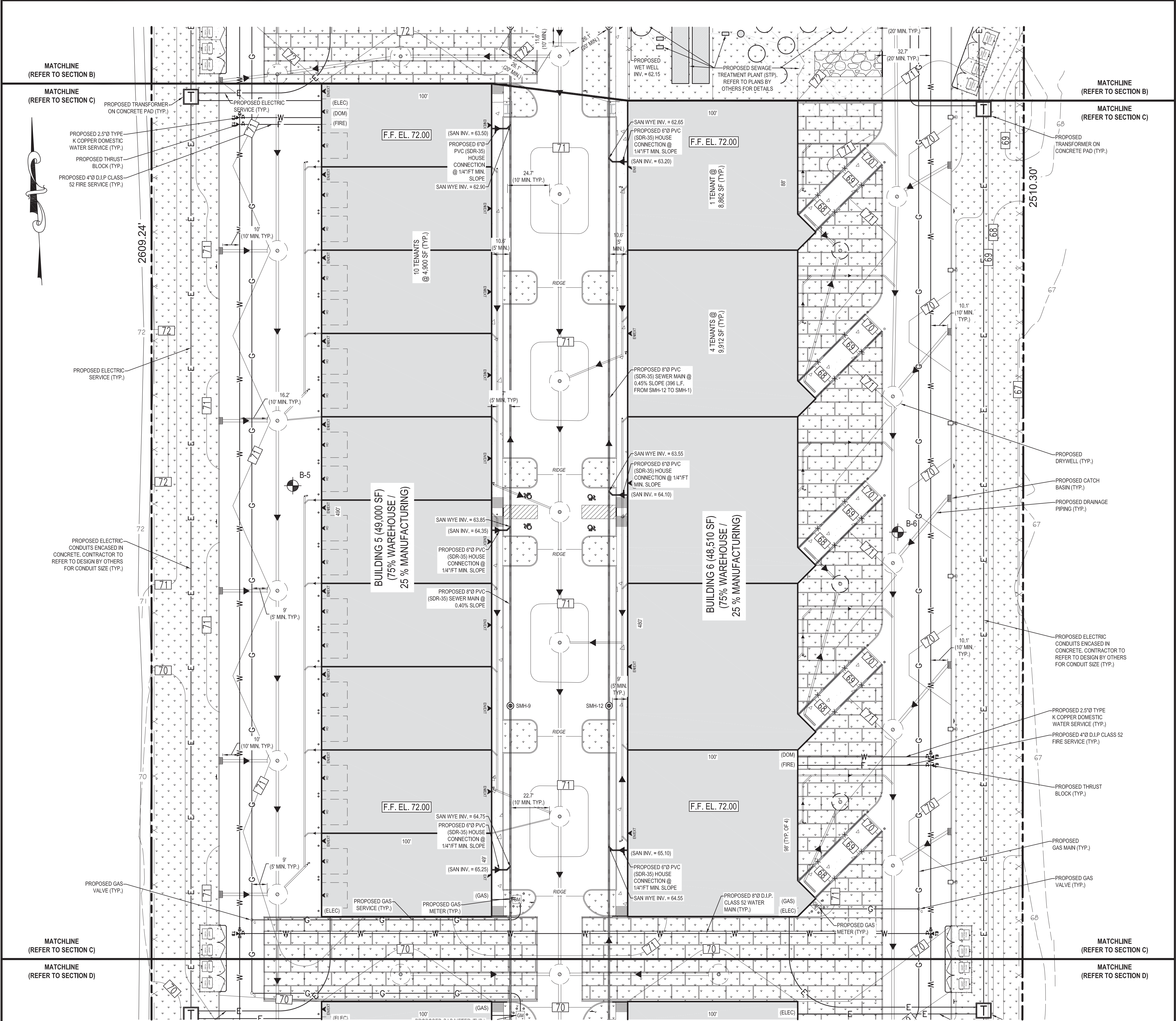
KEY
CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(831) 961-0506
www.KeyCivilEngineering.com

PROJECT NAME:
**HK VENTURES, LLC
INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

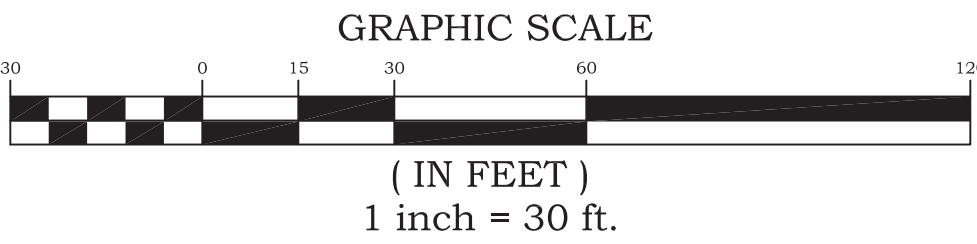
DRAWING TITLE:
**PARTIAL SANITARY & UTILITY PLAN
(SECTION B - PHASE I)**

DRAWING No.:
C-15

PAGE No.:
15 OF 35



REFER TO SHEET C-15 FOR SANITARY
STRUCTURE SCHEDULE AND SHEET C-18
FOR SANITARY DETAILS & BORING
INFORMATION



SCTM #: 600-116-1-2
SCHDS REF. #: _____

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES APPROVAL

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SEAL & SIGNATURE

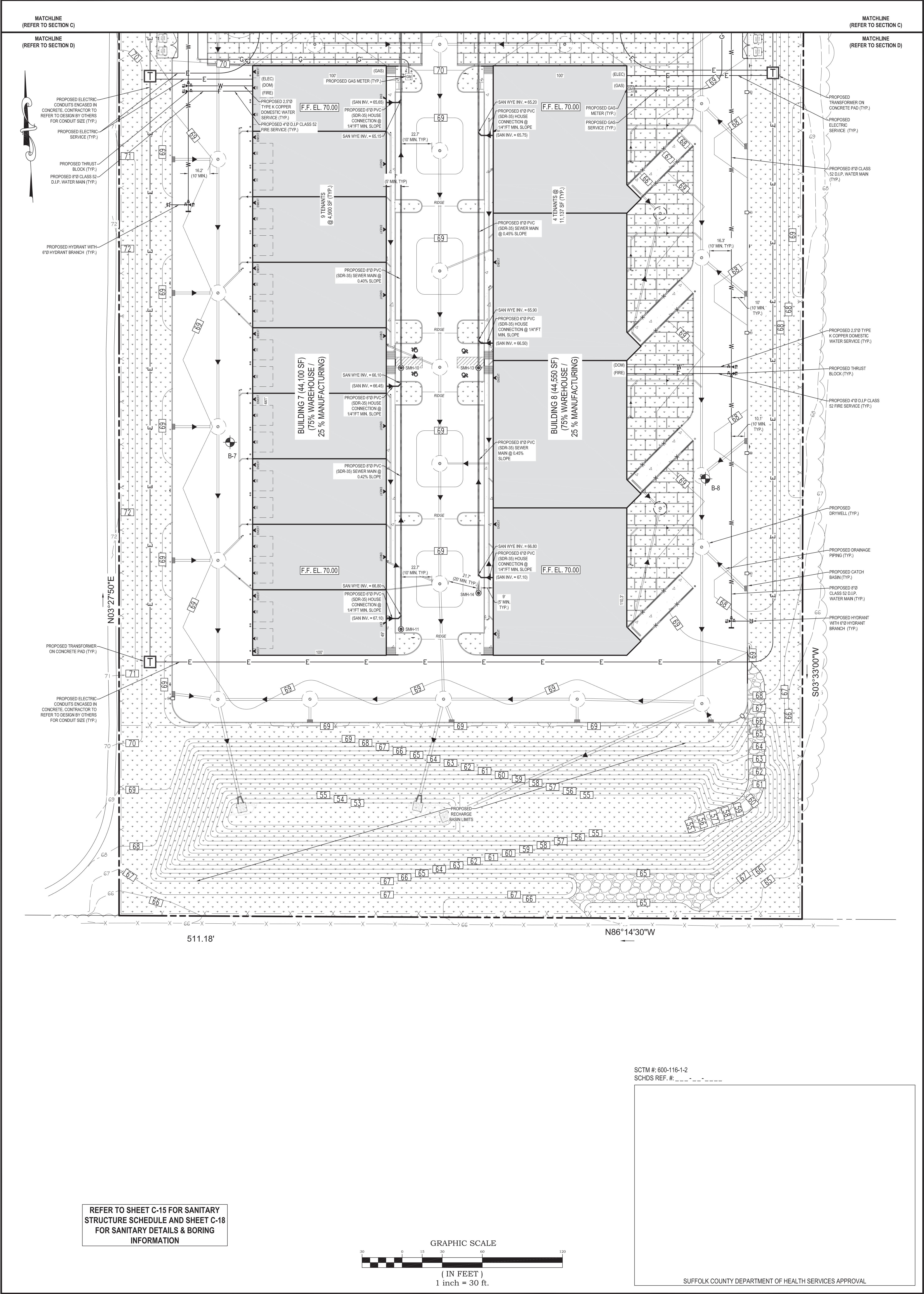
JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
APPROVED BY:	JP

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CIVIL ENGINEERING
664 BLUE POINT ROAD, UNIT B
HOLTSVILLE, NEW YORK 11742
(831) 951-0505
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PROJECT NAME:
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INDUSTRIAL PARK**
4285 MIDDLE COUNTRY ROAD
CALVERTON, NY 11933
TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE: PARTIAL SANITARY & UTILITY PLAN (SECTION C - PHASE II)
DRAWING No.: C-16
PAGE No.: 16 OF 35



No.	DATE	BY	DESCRIPTION
6	01/24/2022	LC	MISCELLANEOUS COORDINATION
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3	06/22/2020	LC	MISCELLANEOUS COORDINATION
2	06/03/2020	LC	ISSUED FOR TOWN SUBMISSION
1	05/15/2020	LC	ISSUED FOR REVIEW

NEW YORK STATE PROFESSIONAL ENGINEER
EXPIRATION OF LICENSE 06/30/2025
A VIOLATION OF SECTION 7805, SUBDIVISION 2 OF
THE NEW YORK STATE EDUCATION LAW.

SEAL & SIGNATURE

JACLYN R. PERANTEAU
LICENSED PROFESSIONAL ENGINEER
083937

JACLYN PERANTEAU, P.E.
NEW YORK STATE PROFESSIONAL ENGINEER #083937

DATE:	01/24/2020
SCALE:	1" = 30'
PROJECT No.:	19026
DRAWING BY:	LC
CHECKED BY:	YT
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TOWN OF RIVERHEAD, COUNTY OF SUFFOLK
DIST.: 600, SECT.: 116, BLOCK: 1, LOT: 2
ZONE: INDUSTRIAL C

DRAWING TITLE:
**PARTIAL SANITARY & UTILITY PLAN
(SECTION D - PHASE II)**

DRAWING No.:
C-17

PAGE No.:
17 OF 35