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SITE DEVELOPMENT PLANS

FOR

DATABANK ORANGEBURG PHASE 2 (LGA-4)

2000 CORPORATE DRIVE
ORANGEBURG, NY 10962

DESIGN TEAM

CIVIL ENGINEER
KIMLEY-HORN ENGINEERING AND LANDSCAPE ARCHITECTURE OF NEW YORK, P.C.
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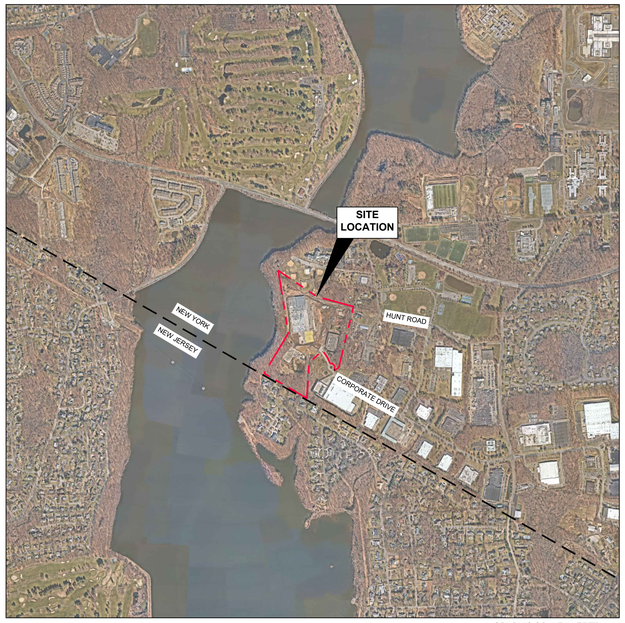
PROPERTY INFORMATION

OWNER AND APPLICANT
DATABANK
3110 N CENTRAL AVENUE, SUITE B-75
PHOENIX, AZ 85012
TEL: (347) 873-1480
CONTACT: TONY QORRI

RECORD OWNER

TAX MAP
SECTION: 73.15
BLOCK: 1
LOT: 19

DISTRICTS
ZONING: LIO - LIGHT INDUSTRIAL-OFFICE DISTRICT
SCHOOL: PEARL RIVER
FIRE: PEARL RIVER
WATER: VEOLIA NEW YORK
LIGHTING: TOWN OF ORANGETOWN
SEWER: TOWN OF ORANGETOWN



SITE LOCATION MAP
SOURCE: NEARMAPS

NORTH

GRAPHIC SCALE IN FEET
0 500 1000 2000

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*PLANSHEETS ARE IN COLOR AND ONLY VALID WHEN PRINTED IN COLOR.

THIS SITE PLAN HAS BEEN APPROVED BY THE TOWN OF ORANGETOWN PLANNING BOARD, ROCKLAND COUNTY, NEW YORK.

DATE

BOARD CHAIRMAN

811 DIG ALERT

Know what's BELOW. CALL before you dig.

CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG

THE EXACT LOCATION OF UTILITIES SHOWN IN THIS PLAN SET ARE UNKNOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING UTILITIES (IN CONFLICT WITH PROPOSED IMPROVEMENTS) BY CALLING 811 AT LEAST 2 WORKING DAYS PRIOR TO STARTING ANY EXCAVATION.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
No. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

COVER SHEET

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-0.0

Saved Thursday, May 15, 2025 8:10:12 AM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:10:53 AM Suddeth, Trent

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GENERAL CONSTRUCTION NOTES

1. NO WORK CAN BEGIN WITHOUT PERMIT IN HAND. PERMIT ISSUED UPON MEETING CONDITIONS OF PLANNING BOARD APPROVALS OBTAINED, FINAL SITE PLAN IS STAMPED, AND CONSTRUCTION PLANS ARE APPROVED BY BUILDING INSPECTOR.
2. THE CONTRACTOR AND SUBCONTRACTORS SHOULD BE FAMILIAR WITH ALL STATE AND LOCAL REQUIREMENTS RELATED TO SITE CONSTRUCTION ACTIVITIES PRIOR TO COMMENCING WORK. ALL WORK SHALL CONFORM AS APPLICABLE TO THESE GOVERNING STANDARDS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES, SPECIFICATIONS AND REQUIREMENTS. CONTRACTOR SHALL CLEAR AND GRUB ALL AREAS UNLESS OTHERWISE INDICATED, REMOVING TREES, STUMPS, ROOTS, MUCK, EXISTING PAVEMENT AND ALL OTHER DELETERIOUS MATERIAL.
4. EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME OF THE TOPOGRAPHIC SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
5. THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY AND ALL CONSTRUCTION ON OR NEAR EXISTING AND PROPOSED SANITARY SEWER FACILITIES.
6. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
7. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION. AN APPROXIMATE LIST OF THE UTILITY COMPANIES WHICH THE CONTRACTOR MUST CALL BEFORE COMMENCING WORK IS PROVIDED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS. THIS LIST SERVES AS A GUIDE ONLY AND IS NOT INTENDED TO LIMIT THE UTILITY COMPANIES WHICH THE CONTRACTOR MAY WISH TO NOTIFY.
9. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONSTRUCTION DOCUMENTS INCLUDING PLANS, SPECIFICATIONS, GEOTECHNICAL REPORT AND SPECIAL CONDITIONS AND COPIES OF ANY REQUIRED CONSTRUCTION PERMITS.
11. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER.
12. DURING THE COURSE OF THE WORK, THE CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ANY AND ALL CHANGES RELATED TO FIELD CONDITIONS, INCLUDING AREAS OF ROCK EXCAVATION. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL FILE WITH THE OWNER A COMPLETE SET OF "AS CONSTRUCTED" DRAWINGS PREPARED BY A NYS LICENSED LAND SURVEYOR SHOWING AND LOCATING ALL FEATURES OF THE WORK AS INSTALLED.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF NEW YORK DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. ALL AS-BUILT DATA SHALL BE COLLECTED BY A STATE OF NEW YORK PROFESSIONAL LAND SURVEYOR WHOSE SERVICES ARE ENGAGED BY THE CONTRACTOR.
15. ANY WELL DISCOVERED DURING EARTH MOVING OR EXCAVATION SHALL BE REPORTED TO THE OWNER WITHIN 24 HOURS AFTER DISCOVERY IS MADE.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, THE CONTRACTOR SHALL NOTIFY THE OWNER PRIOR TO INSTALLATION OF ANY PORTION OF THE SITE WORK THAT WOULD BE AFFECTED. FAILURE TO NOTIFY OWNER OF AN IDENTIFIABLE CONFLICT PRIOR TO PROCEEDING WITH INSTALLATION RELIEVES OWNER OF ANY OBLIGATION TO PAY FOR A RELATED CHANGE ORDER.
17. ANY EXISTING UTILITY, WHICH IS TO BE EXTENDED, WHICH IS THE CONNECTION POINT FOR NEW UNDERGROUND UTILITIES, OR WHICH NEW FACILITIES CROSS, SHALL BE EXPOSED BY THE CONTRACTOR PRIOR TO PLACEMENT OF THE NEW UTILITIES. COST OF SUCH EXCAVATION AND SUBSEQUENT BACKFILL SHALL BE INCLUDED IN THE PRICES PAID FOR THE VARIOUS ITEMS OF WORK. THE ELEVATIONS AND LOCATIONS OF THE EXISTING FACILITIES WILL BE CHECKED BY THE PUBLIC WORKS INSPECTOR AND THE ENGINEER. IF IN THE OPINION OF THE INSPECTOR A CONFLICT EXISTS, THEN THE ENGINEER SHALL MAKE ANY NEEDED GRADE AND/ OR ALIGNMENT ADJUSTMENTS AND REVISE THE PLANS ACCORDINGLY. ALL GRAVITY FLOW PIPELINES TO BE LAID UPGRADE FROM THE LOWEST POINT STARTING AT THE END OF EXISTING IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.
18. WORK OF THIS CONTRACT IS TO INCLUDE, BUT NOT LIMITED TO, DEMOLITION OF EXISTING BUILDING FOUNDATIONS AND OLD UTILITY SYSTEMS, SITE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, UTILITIES, UTILITY STRUCTURES, ASPHALT AND CONCRETE PAVEMENT, CONCRETE PAVERS, CONCRETE AND GRANITE CURBING, DRIVEWAY APRONS, CONCRETE AND ASPHALT RAMPS, SIDEWALKS, FENCING, RAILINGS, SIGNAGE, SITE LIGHTING, RETAINING WALLS AND MISCELLANEOUS STRUCTURES.
19. HOURS OF CONSTRUCTION ACTIVITY MUST COMPLY WITH THE TOWN OF ORANGETOWN CODE.
20. PRIOR STARTING CONSTRUCTION ALL ACTIVE UTILITIES SHOULD BE IDENTIFIED, MARKED OUT IN THE FIELD, AND SECURED AS NECESSARY.
16. CONTRACTOR IS ALSO TO FAMILIARIZE HIMSELF WITH THE SUBSURFACE EXPLORATIONS AND GEOTECHNICAL REPORTS APPLICABLE TO THE PROJECT. ASSUMED PROVIDED BY OTHERS.
17. INFORMATION GIVEN IN THE SUBSURFACE EXPLORATIONS AND GEOTECHNICAL ENGINEERING REPORTS WAS OBTAINED FOR USE BY THE OWNER IN EXECUTION OF DESIGN. THE SUBSURFACE CONDITIONS DESCRIBED IN THE REPORTS ARE NOT INTENDED AS REPRESENTATIONS OR WARRANTIES OF ACCURACY. THE SUBSURFACE STRATIGRAPHY SHOWN IN THE REPORTS ARE BASED ON NECESSARY INTERPOLATIONS BETWEEN BORINGS AND MAY OR MAY NOT REPRESENT ACTUAL SUBSURFACE CONDITIONS. THE OWNER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS MADE FROM THE DATA IN THE REPORTS BY THE CONTRACTOR.
18. CONDUCT A PRE-CONSTRUCTION CONFERENCE AT THE PROJECT SITE A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO COMMENCING ANY WORK OF THIS CONTRACT. THE MEETING WILL BE ARRANGED BY THE OWNER UPON NOTIFICATION OF THE CONTRACTOR AND IS TO BE ATTENDED BY REPRESENTATIVES OF THE CONTRACTOR, OWNER, CONSTRUCTION MANAGER, GEOTECHNICAL ENGINEER, SITE/CIVIL ENGINEER AND REPRESENTATIVES OF THE TOWN OF ORANGETOWN.
19. ADJOINING PROPERTY OWNERS WILL CONTINUE TO OCCUPY THEIR FACILITIES IMMEDIATELY ADJACENT TO THE PROJECT SITE AND DEMOLITION AREAS. THUS, THE CONTRACTOR MUST CONDUCT HIS OPERATIONS IN SUCH A MANNER AND MAKE ANY ARRANGEMENTS NECESSARY SO THAT THE ADJOINING PROPERTY OWNER'S USE OF THEIR FACILITIES WILL NOT BE DISRUPTED DURING THE COURSE OF THE WORK.
20. PROVIDE NOT LESS THAN SEVENTY-TWO (72) HOURS' NOTICE TO THE OWNER AND ADJACENT PROPERTY OWNERS OF ACTIVITIES THAT WILL AFFECT THEIR RESPECTIVE USE OF THEIR PROPERTY.
21. MAINTAIN ACCESS TO EXISTING WALKWAYS, EXITS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
22. DO NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION OR THE AFFECTED PROPERTY OWNER.
23. IT IS NOT EXPECTED THAT HAZARDOUS MATERIALS WILL BE ENCOUNTERED IN THE CONDUCT OF THE WORK. HOWEVER, IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB AND IMMEDIATELY NOTIFY THE OWNER AND CONSTRUCTION MANAGER. HAZARDOUS MATERIALS WILL BE REMOVED BY THE OWNER AND/OR CONTRACTOR UNDER A SEPARATE CONTRACT.
24. REVIEW PROJECT RECORD DOCUMENTS OF EXISTING CONSTRUCTION PROVIDED BY OWNER. OWNER DOES NOT GUARANTEE THAT EXISTING CONDITIONS ARE SAME AS THOSE INDICATED IN PROJECT RECORD DOCUMENTS.
25. THE CONTRACTOR IS RESPONSIBLE FOR ENGAGING A PROFESSIONAL ENGINEER TO PERFORM AN ENGINEERING SURVEY OF THE CONDITION OF ANY REMAINING BUILDING STRUCTURE OR FOUNDATION SYSTEM TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN A STRUCTURAL DEFICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THAT STRUCTURE OR ADJACENT STRUCTURES DURING DEMOLITION OPERATIONS.
26. PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING, OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.
27. EXISTING UTILITIES: MAINTAIN ACTIVE UTILITY SERVICES INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
28. DO NOT INTERRUPT EXISTING UTILITIES SERVING BOTH ON SITE AND OFF SITE ADJACENT OCCUPIED OR OPERATING FACILITIES UNLESS AUTHORIZED IN WRITING BY OWNER AND AUTHORITIES HAVING JURISDICTION.
29. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO OWNER AND TO AUTHORITIES HAVING JURISDICTION.
30. PROVIDE AT LEAST SEVENTY-TWO (72) HOURS' NOTICE TO OWNER IF SHUTDOWN OF SERVICE IS REQUIRED DURING CHANGEOVER.
31. TEMPORARY PROTECTION: ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, RAILINGS, CANOPIES, AND COVERED PASSAGEWAYS, WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION AND AS INDICATED.
32. PROTECT EXISTING SITE IMPROVEMENTS, APPURTENANCES, AND LANDSCAPING TO REMAIN.
33. PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION REQUIRED TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN.
34. PROVIDE PROTECTION TO ENSURE SAFE PASSAGE OF PEOPLE AROUND BUILDING DEMOLITION AREA AND TO AND FROM OCCUPIED PORTIONS OF ADJACENT BUILDINGS AND STRUCTURES.
35. PROTECT WALLS, WINDOWS, ROOFS, AND OTHER ADJACENT EXTERIOR CONSTRUCTION THAT ARE TO REMAIN AND THAT ARE EXPOSED TO BUILDING DEMOLITION OPERATIONS OR OTHER CONSTRUCTION ACTIVITY.
36. GENERAL: DEMOLISH ALL ITEMS, AS EITHER INDICATED ON THE PLANS OR ENCOUNTERED IN THE FIELD DURING THE WORK, COMPLETELY. USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN LIMITATIONS OF GOVERNING REGULATIONS AND AS FOLLOWS:
37. DO NOT USE CUTTING TORCHES UNTIL WORK AREA IS CLEARED OF FLAMMABLE MATERIALS. MAINTAIN FIRE WATCH AND PORTABLE FIRE-SUPPRESSION DEVICES DURING FLAME-CUTTING OPERATIONS.
38. MAINTAIN ADEQUATE VENTILATION WHEN USING CUTTING TORCHES.
39. LOCATE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND OTHER MATERIALS SO AS NOT TO IMPOSE EXCESSIVE LOADS ON SUPPORTING WALLS, FLOORS, OR FRAMING OF ADJOINING STRUCTURES.
40. ENGINEERING SURVEYS: PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS THAT MAY RESULT FROM BUILDING DEMOLITION ACTIVITIES.
41. SITE ACCESS AND TEMPORARY CONTROLS: CONDUCT DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
42. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, WALKWAYS. OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY AUTHORITIES HAVING JURISDICTION.
43. USE WATER MIST AND OTHER SUITABLE METHODS TO LIMIT SPREAD OF DUST AND DIRT. COMPLY WITH GOVERNING ENVIRONMENTAL-PROTECTION REGULATIONS. DO NOT USE WATER WHEN IT MAY DAMAGE ADJACENT CONSTRUCTION OR CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION.
44. REMOVE STRUCTURES AND OTHER SITE IMPROVEMENTS INTACT WHEN PERMITTED BY AUTHORITIES HAVING JURISDICTION.
45. CONCRETE: CUT CONCRETE FULL DEPTH AT JUNCTURES WITH CONSTRUCTION INDICATED TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE CONCRETE BETWEEN SAW CUTS.
46. MASONRY: CUT MASONRY AT JUNCTURES WITH CONSTRUCTION INDICATED TO REMAIN, USING POWER-DRIVEN SAW, THEN REMOVE MASONRY BETWEEN SAW CUTS.
47. CONCRETE SLABS-ON-GRADE: SAW-CUT PERIMETER OF AREA TO BE DEMOLISHED AT JUNCTURES WITH CONSTRUCTION INDICATED TO REMAIN, THEN BREAK UP AND REMOVE.
48. EQUIPMENT: DISCONNECT EQUIPMENT AT NEAREST FITTING CONNECTION TO SERVICES, COMPLETE WITH SERVICE VALVES. REMOVE AS WHOLE UNITS, COMPLETE WITH CONTROLS.
49. BELOW-GRADE CONSTRUCTION: DEMOLISH EXISTING FOUNDATIONS AND FOOTINGS, FOUNDATION WALLS, WALLS, SLABS AND OTHER BELOW-GRADE CONSTRUCTION THAT IS WITHIN TEN (10) FEET OUTSIDE OF FOOTPRINT INDICATED FOR NEW CONSTRUCTION. ABANDON BELOW-GRADE CONSTRUCTION OUTSIDE THIS AREA.
50. REMOVE BELOW-GRADE CONSTRUCTION TO DEPTHS INDICATED ON THE PLANS.
51. EXISTING BELOW GRADE CONSTRUCTION SHOULD BE REMOVED ENTIRELY FROM BELOW PROPOSED FOUNDATIONS AND THEIR ZONES OF INFLUENCE (IF DETERMINED BY LINES EXTENDING AT LEAST ONE (1) FOOT LATERALLY BEYOND FOOTING EDGES FOR EACH VERTICAL FOOT OF DEPTH) AND EXCAVATED TO AT LEAST TWO (2) FEET BELOW PROPOSED CONSTRUCTION SUBGRADE LEVELS ELSEWHERE.
52. FOUNDATION AND SLABS MAY REMAIN IN PLACE BELOW THESE DEPTHS BELOW GROUND SUPPORTED SLABS, PAVEMENTS AND LANDSCAPED AREAS, PROVIDED THEY ARE APPROVED BY THE GEOTECHNICAL ENGINEER AND DO NOT INTERFERE WITH FUTURE CONSTRUCTION (INCLUDING UTILITIES); HOWEVER, IF EXISTING SLAB OR STRUCTURE TO REMAIN SHOULD BE THOROUGHLY BROKEN TO ALLOW VERTICAL DRAINAGE OF INFILTRATING WATER.
53. EXISTING UTILITIES: ABANDON EXISTING UTILITIES AND BELOW-GRADE UTILITY STRUCTURES. CUT UTILITIES FLUSH WITH GRADE.
54. EXISTING UTILITIES: DEMOLISH EXISTING UTILITIES AND BELOW-GRADE UTILITY STRUCTURES THAT ARE WITHIN TEN (10) FEET OUTSIDE OF FOOTPRINT INDICATED FOR NEW CONSTRUCTION. ABANDON UTILITIES OUTSIDE THIS AREA.
55. FILL ABANDONED UTILITY STRUCTURES AND PIPING WITH EITHER LEAN CONCRETE OR SATISFACTORY SOIL MATERIALS APPROVED BY THE OWNER OR GEOTECHNICAL ENGINEER.
56. EXISTING UTILITIES: DEMOLISH AND REMOVE EXISTING UTILITIES AND BELOW-GRADE UTILITY STRUCTURES.
57. SITE DRAINAGE: SITE SOILS MAY SOFTEN WHEN EXPOSED TO WATER, EVERY EFFORT MUST BE MADE TO MAINTAIN DRAINAGE OF SURFACE WATER RUNOFF AWAY FROM CONSTRUCTION AREAS AND OPEN EXCAVATIONS BY GRADING AND LIMITING THE EXPOSURE OF EXCAVATIONS AND PREPARED SUBGRADES TO RAINFALL.
58. BELOW-GRADE AREAS: COMPLETELY FILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM BUILDING DEMOLITION OPERATIONS WITH SATISFACTORY SOIL MATERIALS APPROVED BY THE OWNER AND/OR GEOTECHNICAL ENGINEER.
59. SITE GRADING: UNIFORMLY ROUGH GRADE AREA OF DEMOLISHED CONSTRUCTION TO A SMOOTH SURFACE, FREE FROM IRREGULAR SURFACE CHANGES. PROVIDE A SMOOTH TRANSITION BETWEEN ADJACENT EXISTING GRADES AND NEW GRADES.
60. SEPARATE RECYCLABLE DEMOLISHED MATERIALS FROM OTHER DEMOLISHED MATERIALS TO THE MAXIMUM EXTENT POSSIBLE. SEPARATE RECYCLABLE MATERIALS BY TYPE.
61. PROVIDE CONTAINERS OR OTHER STORAGE METHOD APPROVED BY ARCHITECT FOR CONTROLLING RECYCLABLE MATERIALS UNTIL THEY ARE REMOVED FROM PROJECT SITE.
62. STOCKPILE PROCESSED MATERIALS ON-SITE WITHOUT INTERMIXING WITH OTHER MATERIALS. PLACE, GRADE, AND SHAPE STOCKPILES TO DRAIN SURFACE WATER. COVER TO PREVENT WINDBLOWN DUST.
63. STOCKPILE MATERIALS IN DESIGNATED AREAS SHOWN ON THE PLANS OR AS APPROVED IN THE FIELD BY THE OWNER OR CONSTRUCTION MANAGER.
64. IF RECYCLABLE MATERIAL CANNOT BE USED ON-SITE, THE CONTRACTOR SHALL TRANSPORT THE RECYCLABLE MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM AT NO ADDITIONAL COST TO THE OWNER IN ACCORDANCE WITH THE SWPPP.
65. DEMOLITION MATERIAL FREE OF ENVIRONMENTAL CONCERNS, AND APPROVED BY NYSDEC, MAY BE USED AS FILL MATERIAL, PROVIDED THE MATERIAL IS PROPERLY SEGREGATED AND PROCESSED AS FOLLOWS AND APPROVED FOR REUSE ON THE SITE BY THE GEOTECHNICAL ENGINEER:
   - 65.1. CONCRETE MASONRY MATERIALS SHOULD BE CRUSHED TO A WELL GRADED BLEND WITH A MAXIMUM SIZE OF THREE (3) INCHES IN DIAMETER, PER EARTHWORK SPECIFICATIONS.
   - 65.2. MILLED OR RECYCLED ASPHALT PAVEMENT (RAP) MAY BE REUSED AS GRANULAR BASE MATERIAL FOR PAVEMENTS, PROVIDED THAT THE RAP PARTICLE SIZE MEETS THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR GRANULAR BASE AND NO MORE THAN FIFTY (50) PERCENT OF THE PAVEMENT GRANULAR BASE CONTAINS RAP.
   - 65.3. OTHER ASPHALTIC MATERIALS AND DELETERIOUS BUILDING MATERIALS SUCH AS WOOD, INSULATION, METAL, SHINGLES, ETC. SHOULD NOT BE USED AS GENERAL STRUCTURAL FILL MATERIAL.
66. EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RECYCLED, REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED TO REMAIN OWNER'S PROPERTY, REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND LEGALLY DISPOSE OF THEM IN AN EPA-APPROVED LANDFILL.
67. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
68. BURNING: ON SITE BURNING OF RUBBISH AND OTHER DEMOLITION DEBRIS WILL NOT BE PERMITTED.
69. DISPOSAL: TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND PROVIDE FOR THE LEGAL OFF SITE DISPOSAL OF THE MATERIAL IN ACCORDANCE WITH THE SMP.
70. CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DUST, DIRT, AND DEBRIS CAUSED BY BUILDING DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTING BEFORE BUILDING DEMOLITION OPERATIONS BEGAN.
71. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE OWNER WITH A SURVEY PREPARED BY A NYS LICENSED LAND SURVEYOR SHOWING THE LOCATION AND THE ELEVATIONS TO WHICH THE DEMARCATION BARRIER IS INSTALLED.
72. THE CONTRACTOR IS TO NOTE THAT THE WORK OF THIS CONTRACT WILL INCLUDE WORK BY OTHERS AND THE CONTRACTOR SHALL COORDINATE HIS WORK AND MAKE EVERY REASONABLE EFFORT TO PERMIT THE EXECUTION OF SUCH WORK BY OTHERS WITHOUT DELAY.
73. IF TEMPORARY UTILITY SERVICES ARE REQUIRED, THE CONTRACTOR SHALL SEE TO IT THAT THEY ARE PROVIDED AT NO ADDITIONAL COST TO THE OWNER AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SUCH TEMPORARY FACILITIES FOR THE DURATION OF THEIR WORK.
74. ALL WORK OF THIS CONTRACT SHALL CONFORM TO THESE CONTRACT DRAWINGS AND SPECIFICATIONS AS WELL AS TO THE APPLICABLE REQUIREMENTS OF THE TOWN OF ORANGETOWN BUILDING, PUBLIC WORKS, AND FIRE DEPARTMENTS, AS WELL AS THE COGNIZANT PUBLIC UTILITY COMPANIES.
75. ALL WORK SHALL COMPLY WITH THE BUILDING CODE OF NEW YORK STATE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL RULES, LAWS, AND REGULATIONS.
76. ALL PROJECT RELATED LINES AND GRADES ARE TO BE ESTABLISHED BY A LICENSED SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF NEW YORK.
77. SIZES OF EXISTING UTILITY LINES ARE TO BE VERIFIED IN THE FIELD BY CAREFUL TEST EXCAVATIONS BY THE CONTRACTOR PRIOR TO STARTING THE WORK AND SUBSTANTIVE VARIATIONS FROM THE SURVEY DATA PROVIDED ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER SO THAT APPROPRIATE DESIGN MODIFICATIONS MAY BE MADE.
78. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING DRAINAGE OR UTILITY SYSTEMS WITHIN OR ADJACENT TO THE WORK SHOWN ON THESE DRAWINGS. ANY DAMAGE CAUSED BY THE CONTRACTOR'S OPERATIONS SHALL IMMEDIATELY BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE AND TO THE SATISFACTION OF THE OWNER OR UTILITY COMPANY INVOLVED.
79. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES REQUIRED BY THE CONTRACT WORK AND SHALL OBTAIN BONDS, PERMITS, ETC. REQUIRED FOR THE EXECUTION OF THE WORK AND CONFORM THE WORK WITH ALL APPLICABLE CODES, RULES AND REGULATIONS OF THE GOVERNING AGENCIES. THE CONTRACTOR IN ACCORDANCE WITH NEW YORK STATE LAW (CODE RULE 53) SHALL BE RESPONSIBLE FOR NOTIFYING THE APPROPRIATE UTILITY COMPANY OR AGENCY PRIOR TO COMMENCING ANY EXCAVATION WORK AND SHALL NOTIFY THE "CALL BEFORE YOU DIG" HOTLINE @ 1-800-962-7962 PRIOR TO COMMENCING ANY CONSTRUCTION ACTIVITIES.
80. SAFE AND ADEQUATE PEDESTRIAN AND VEHICULAR TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES TO THE ADJACENT BUILDINGS WHILE THE WORK IS PROGRESSING. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL OF THE OWNER A CONSTRUCTION SEQUENCE SCHEDULE AND PLAN FOR PEDESTRIAN AND VEHICULAR TRAFFIC FLOW.
81. THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO SECTION 21-24 OF THE LAND DEVELOPMENT REGULATIONS OF THE TOWN OF ORANGETOWN WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO PRESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
   - 81.1. NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
   - 81.2. THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
   - 81.3. TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10-FOOT HEIGHT.
   - 81.4. THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
     - 81.4.1. ONE (1) FOOT RADIUS FROM PER INCH DBH.
     - 81.4.2. DRIP LINE OF THE TREE CANOPY: THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE (1) YARD BEYOND THE ESTABLISHED TREE PROTECTION ZONE. IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT:
       - 81.4.2.1. LIGHT TO HEAVY IMPACTS: MINIMUM OF EIGHT (8) INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
       - 81.4.2.2. LIGHT IMPACTS ONLY: INSTALLATION OF ¾ INCH OF PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED.
       - 81.4.2.3. THE BUILDER OR ITS AGENT MAY NOT CHANGE THE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED FINAL APPROVAL FROM THE TOWN OF ORANGETOWN PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED MORE THAN SIX (6) INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH THE TREE WELL A RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.
82. ALL UNPAVED AREAS WITHIN THE WORK AREAS AND ALL AREAS DISTURBED DURING CONSTRUCTION ARE TO BE STABILIZED IN ACCORDANCE WITH THE NYSDEC APPROVED STORMWATER POLLUTION PREVENTION PLAN, UNLESS OTHERWISE DIRECTED BY THE OWNER, TURFED AREAS, DISTURBED BY REGRADING AND OTHER WORK OF CONTRACTOR, SHALL BE BROUGHT TO THE PROPER SUBGRADE ELEVATION, TOPSOIL TO A MINIMUM DEPTH OF 4 INCHES SHALL BE PLACED AND, LIMING, FERTILIZING AND SEEDING ACCOMPLISHED, AS SPECIFIED. THE CONTRACTOR SHALL WATER AND MAINTAIN THE SEEDED AREAS UNTIL THEY HAVE BECOME WELL ESTABLISHED.
83. EXISTING PAVEMENT WHICH IS TO REMAIN AND WHICH IS TO BE REMOVED OR DAMAGED DURING THE CONSTRUCTION WORK OF THIS CONTRACT IS TO BE RESTORED TO ITS ORIGINAL CONDITION.
84. UNLESS OTHERWISE SHOWN HEREON OR DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL MATCH THE MATERIALS, TYPES, THICKNESS AND QUALITY OF EXISTING BITUMIN

FIELDWORK COMPLETED: JANUARY 28, 2022
AUGUST 4, 2022

FILED MAP REFERENCE:
"Subdivision Map for Verizon Wireless"
Filed in the Rockland County Clerks Office
03/15/2004 as Map #7643.
Subject Lot 1

"Minor Subdivision for Salisbury Development Corp."
Filed in the Rockland County Clerk's Office
2/24/1975 as Map #4595
Part of Lot 1B

DEED REFERENCE:
Document# 2017-00040515
Recorded 12/18/2017
Grantor: Verizon Wireless
Grantee: Skae Group LLC

GENERAL NOTES:
To date, no Title Report or Abstract of Title has been provided. This survey is subject to a current, up to date Title Report.

Property corner monuments were not placed as part of this survey.

This map may not be used in connection with a "Survey Affidavit" or similar document, statement or mechanism to obtain title insurance for any subsequent or future grantees.

Unauthorized alteration or addition to this survey is a violation of Section 7209, subdivision 2 of the New York State Education Law.

The alteration of survey maps by anyone other than the original preparer is misleading, confusing and not in the general welfare and benefit of the public. Licensed Land Surveyors shall not alter survey maps, survey plans, or survey plats prepared by others.

Underground structures, if any exist, are not shown hereon, except as noted. The location of underground improvements or encroachments are not always known and often must be estimated. If underground improvements, easements, or encroachments exist and are neither visible during normal field survey operations nor described in instruments provided to this surveyor, they may not be shown on this map and are not certified.

Certifications indicated hereon signify that this survey was prepared in accordance with the existing Code of Practice for Land Surveys adopted by the New York State Association of Professional Land Surveyors, Inc. Said certifications shall run only to the person or entity for whom this survey was prepared and on their behalf to the title company, governmental agency and/or lending institution listed hereon, and to the assignees thereof.

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Only copies from the original of this survey marked with the surveyor's embossed seal are genuine, true and correct copies of the surveyor's original work and opinion. A copy of this document without a proper application of the surveyor's embossed seal should be assumed to be an unauthorized copy.

Area = 33.925 Acres

LEGEND

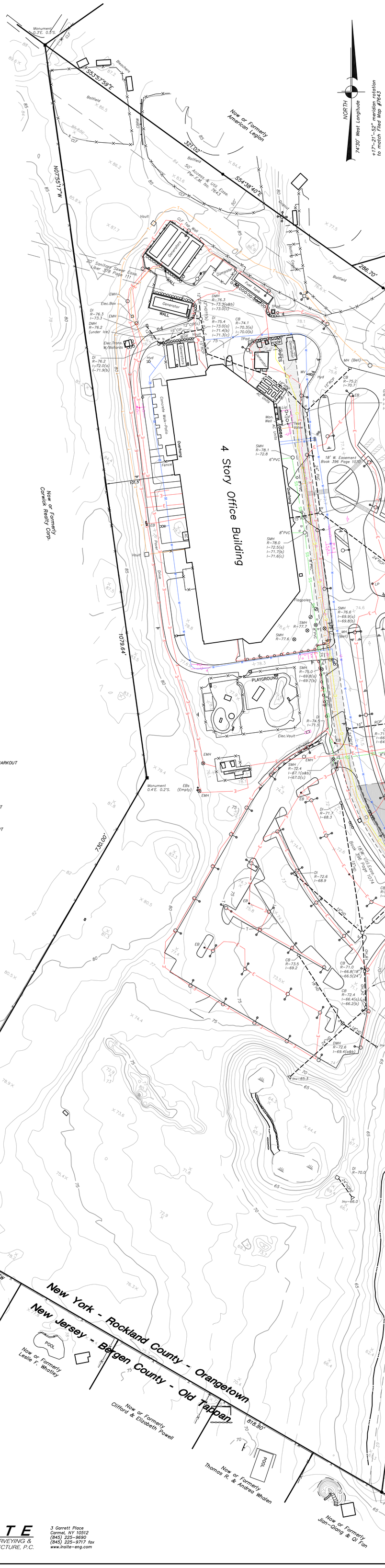
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- Light Pole
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- GV Gas Valve

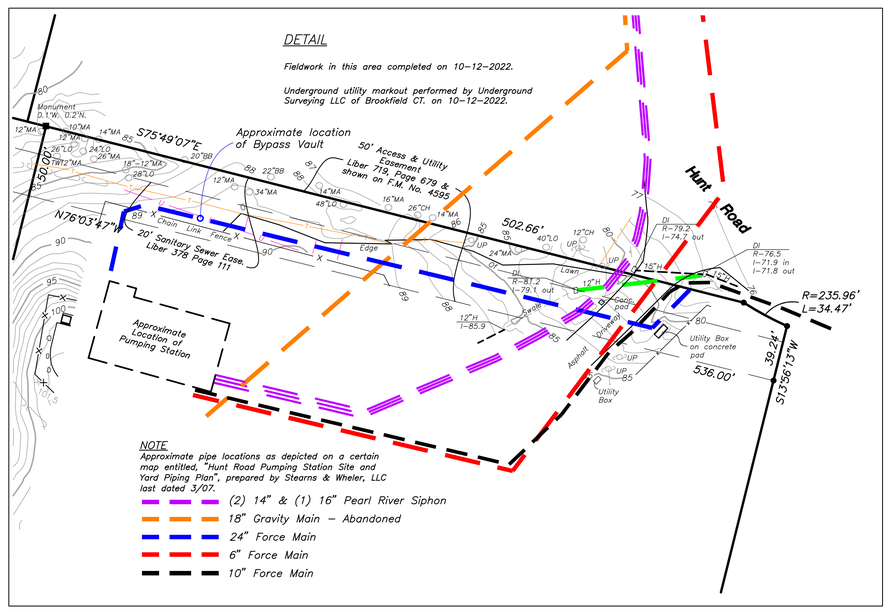
Legend- Aerial Topography

BUSH–DECIDUOUS	BRUSH LINE
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CATCH BASIN	LIGHT POLE
MANHOLE	PAINTED LINES
POLE	RETAINING WALL
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STUMP	SWAMP
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TREE–EVERGREEN	TREE LINE
CONTOUR–INDEX	
CONTOUR–INTER	
CONTOUR INDEX–OBSCURED	
CONTOUR INTER–OBSCURED	
SPOT ELEVATION × 356.4	

- TELECOMMUNICATIONS MARKOUT
- GAS LINE MARKOUT
- ELECTRIC LINE MARKOUT
- UNKNOWN LINE MARKOUT
- WATER LINE MARKOUT
- SEWER SERVICE

UNDERGROUND UTILITY MARKOUT PERFORMED BY UNDERGROUND SURVEYING OF BROOKFIELD CT. ON 1-12-2022.





PHOTOGRAMMETRY BY:

Geomaps INTERNATIONAL
270 Spagnoli Rd. Ste 205 Melville, N.Y. 11747
TEL (516) 827-9100 FAX (516) 827-9101

Map Scale: 1 inch = 50 feet
Contour Interval: 1'
Photo Date: November 24, 2021
Geomaps Job: 21-390
CORPORATE PARK DRIVE

Topographic and Planimetric details shown were derived from aerial photographs taken November 24, 2021 by Geomaps International.

○ ⊠ – Denotes Property Line markers found or set.

Topography Survey prepared for Kimley Horn

Town of Orangetown
Rockland County New York

Scale 1" = 50'

Date: March 24, 2022
Revised: August 8, 2022
October 25, 2022
October 31, 2022
November 4, 2022
November 8, 2022

GRAPHIC SCALE
0 50 100 150
1 inch = 50 ft.

Horizontal Coord. = NAD83
Vertical Datum = NAVD88

JEFFREY B. DeROSA, LS
New York State License No. 050749

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(845) 225-9717 fax
www.insite-eng.com

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21252.200
Kimley Horn Orangeburg Survey.dwg

FIELDWORK COMPLETED: JANUARY 28, 2022
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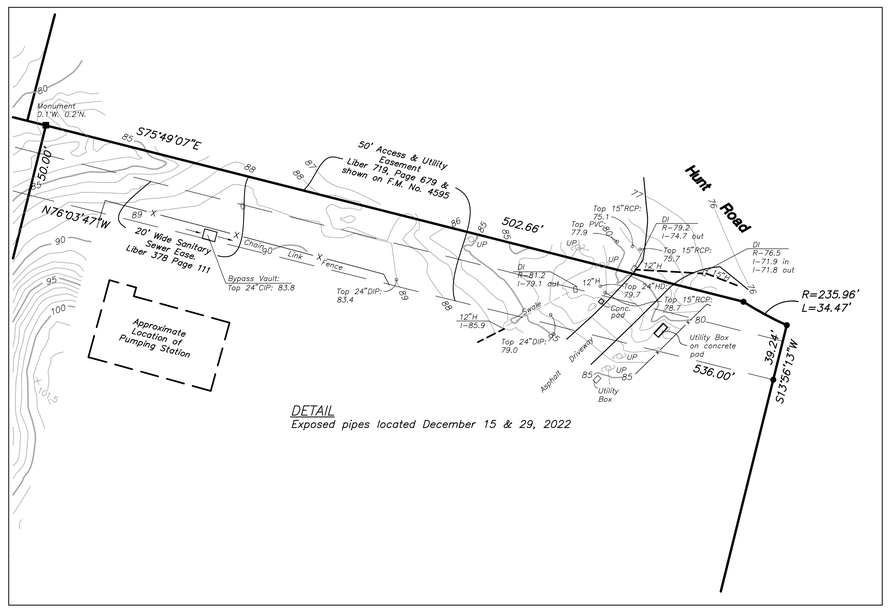
- Catch Basin
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UNDERGROUND UTILITY MARKOUT PERFORMED BY UNDERGROUND SURVEYING OF BROOKFIELD CT. ON 1-12-2022.



DETAIL
Exposed pipes located December 15 & 29, 2022

PHOTOGRAMMETRY BY:

Geomaps INTERNATIONAL
270 Spagnoli Rd. Ste 205 Melville, N.Y. 11747
TEL (516) 827-9100 FAX (516) 827-9101

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Topographic and Planimetric details shown were derived from aerial photographs taken November 24, 2021 by Geomaps International.

JEFFREY B. DeROSA, LS
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Horizontal Coord. = NAD83
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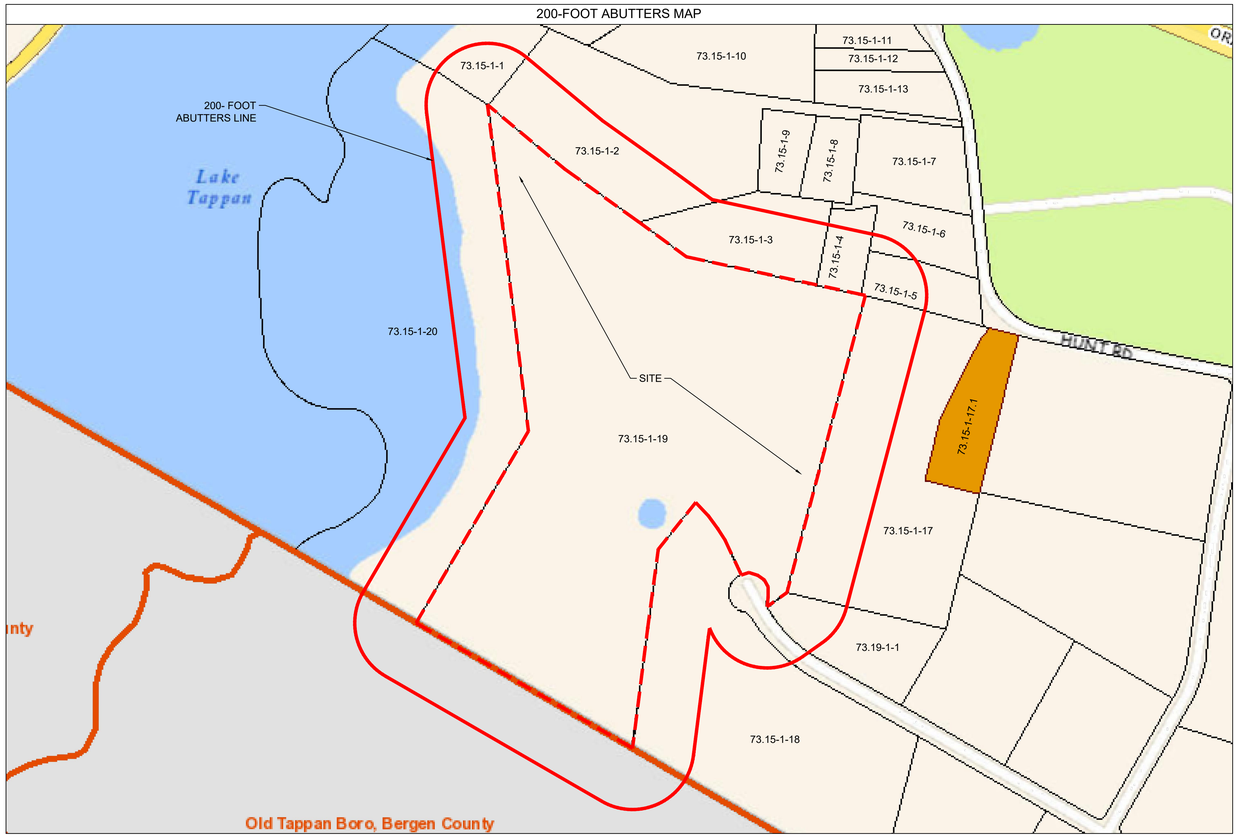
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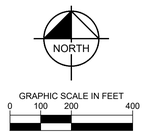
K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-1.0 ZONING AND ABUTTERS PLAN.dwg

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Saved Monday, April 21, 2025 8:28:35 AM KITTY.CHEN Plotted Thursday, May 15, 2025 8:11:25 AM Sudeth, Trent

200-FOOT ABUTTERS MAP





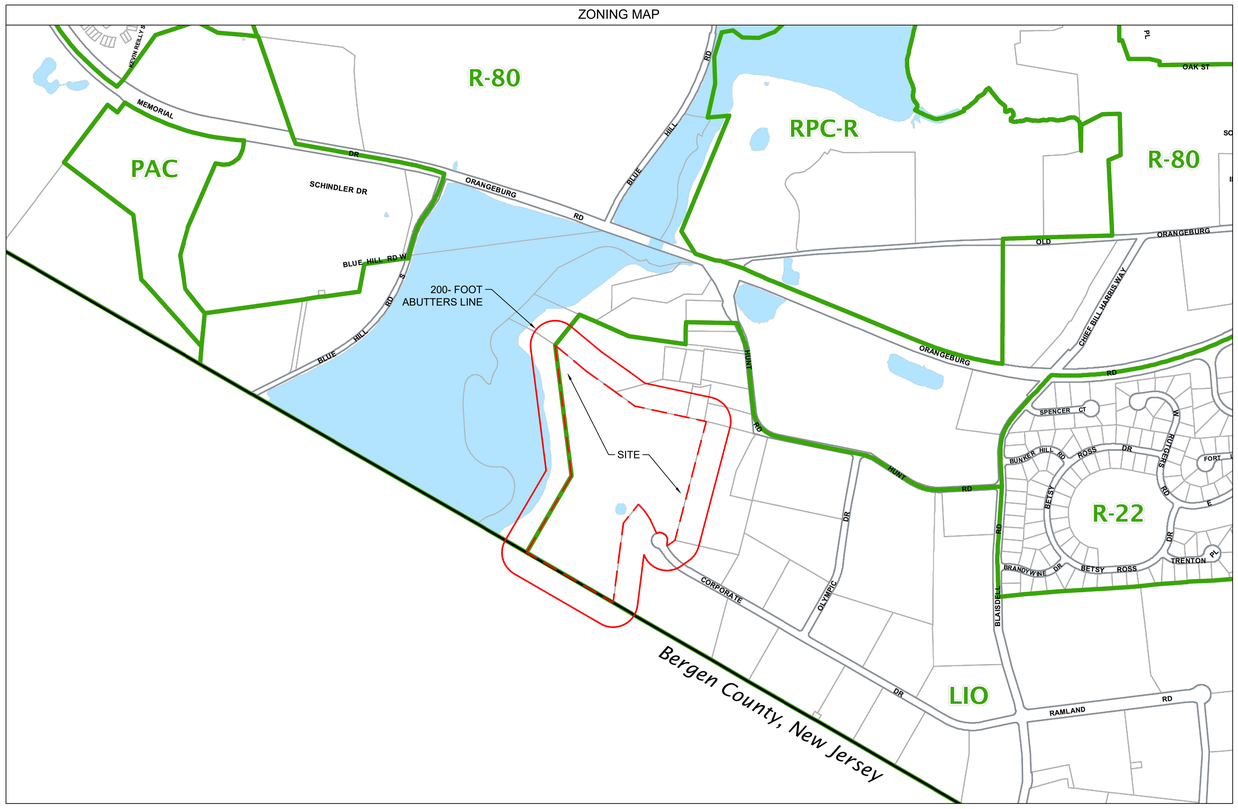
200' ABUTTERS LIST (PROVIDED BY ORANGETOWN)

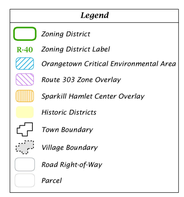
SWIS	PRINT KEY	NAME	ADDRESS
392489	73.10-1-3	Corwick Realty Corp Altus Group US Inc	P.O. Box 71970,Phoenix, AZ 85050
392489	73.11-1-1	Corwick Realty Corp Altus Group US Inc	P.O. Box 71970,Phoenix, AZ 85050
392489	73.11-1-3	Corwick Realty Corp Altus Group US Inc	P.O. Box 71970,Phoenix, AZ 85050
392489	73.11-1-4	Corwick Realty Corp Altus Group US Inc	P.O. Box 71970,Phoenix, AZ 85050
392489	73.14-1-2	Corwick Realty Corp Altus Group US Inc	P.O. Box 71970,Phoenix, AZ 85050
392489	73.15-1-1	Corwick Realty Corp Joseph Chimenti	7 Van Terrace,Sparkill, NY 10976
392489	73.15-1-2	American Legion Joseph Chimenti	7 Van Ter,Sparkill, NY 10976
392489	73.15-1-3	D & B Ent No 3 LLC	10 Dorsey Ct,Orangeburg, NY 10962
392489	73.15-1-4	James Coffey	95 Putnam Ave,Portchester, NY 10573
392489	73.15-1-5	Melody P Fiore	P.O. Box 66,Orangeburg, NY 10962
392489	73.15-1-6	Jacqueline M Fiore	28 Strawtown Rd,West Nyack Ny, 10994
392489	73.15-1-7	85 Hunt Road LLC Claude Baumann	15 Winding Way,Upper Saddle River, NJ 07458
392489	73.15-1-8	Kiera Burtch	73 Hunt Rd,Orangeburg, NY 10962
392489	73.15-1-9	67 Hunt Road LLC	67 Hunt Rd,Orangeburg, NY 10962
392489	73.15-1-10	Brightview Lake Tappan LLC Altus Group	P.O. Box 92129,Southlake, TX 76092
392489	73.15-1-11	Kazziegirl LLC	2 Rolyn Hill Dr,Orangeburg, NY 10962
392489	73.15-1-12	Joseph Missale	41 Hunt Rd,Orangeburg, NY 10962
392489	73.15-1-13	Grace B Meyer	9 Paradise Ave,Piermont, NY 10968
392489	73.15-1-15	Daikin America Inc	20 Olympic Dr,Orangeburg, NY 10962
392489	73.15-1-16	SQ Properties LLC	8 Olympic Dr,Orangeburg, NY 10962
392489	73.15-1-17	Town Of Orangetown	26 Orangeburg Rd,Orangeburg, NY 10962
392489	73.15-1-18	BREO NY LLC Peter Smith	731 Lexington Ave,New York, NY 10022
392489	73.15-1-19	2000 Corporate Drive LLC	400 S Akard St Ste 100,Dallas, TX 75202
392489	73.15-1-20	Corwick Realty Corp Altus Group US Inc.	P.O. Box 71970,Phoenix, AZ 85050
392489	73.16-1-1	Town Of Orangetown	26 Orangeburg Rd,Orangeburg, NY 10962
392489	73.16-2-78	Clarins Usa Inc	15 Olympic Dr,Orangeburg, NY 10962
392489	73.19-1-1	BREO NY LLC Peter Smith	731 Lexington Ave,New York, NY 10022
392489	73.19-1-2	30 Corporate LLC	151 N Main St Ste 400,New City, NY 10956
392489	73.19-1-3	Colleberc Inc	20 Corporate Dr,Orangeburg, NY 10962
392489	73.19-1-5	One Olympic Drive LLC	1 Olympic Dr,Orangeburg, NY 10962
392489	73.19-1-8	29 Corporate Drive LLC	200 Performance Dr Ste 207,Mahwah, NJ 07495
392489	73.19-1-9	Ford 33 Realty LLC	100 Challenger Rd Ste 105,Ridgefield Park, NJ 07650

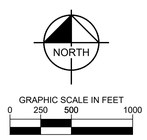
NOTES

1. ZONING MAP SOURCE:
   ORANGETOWN ZONING MAP (ADOPTED DECEMBER 11,2018)
   https://www.orangetown.com/wp-content/uploads/Orangetown_Zoning_Adopted_Dec_11_2018_opt.pdf
2. PARCEL DATA SOURCE:
   ROCKLAND COUNTY GML MAP APPLICATON, PLANNING DEPARTMENT -GIS
   https://www.rocklandgis.com/portal/apps/sites/#/data/app/71bc97364aa743588f39457585a88fa
3. ABUTTERS LIST SOURCE:
   ROCKLAND COUNTY GIS AND BERGEN COUNTY GIS
4. KIMLEY-HORN DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ON THIS SHEET. INFORMATION PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY.

ZONING MAP







NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
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1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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New York
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DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
LIC. 090967
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

ZONING AND ABUTTERS PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-1.0

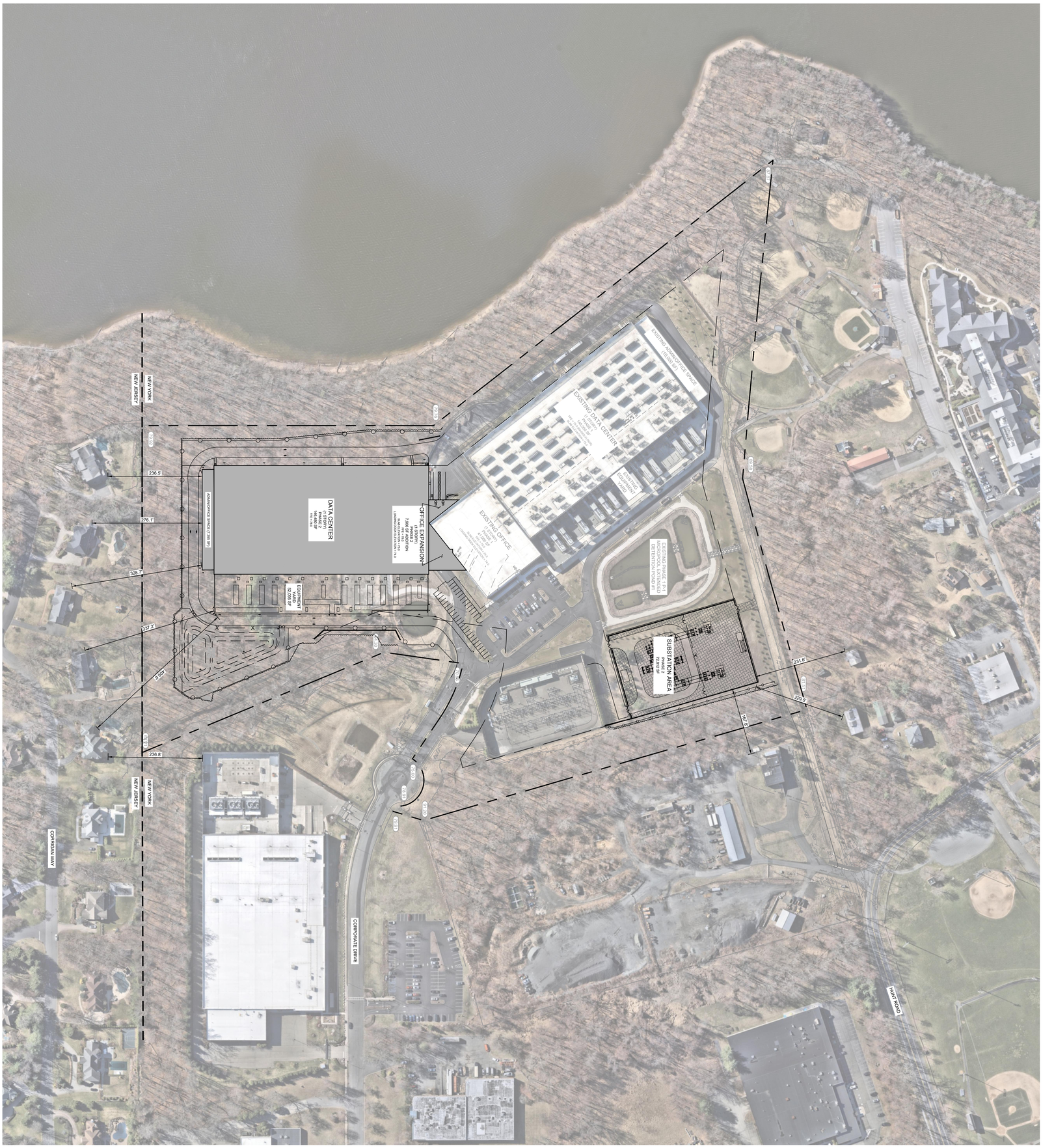
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K:\NYP_Civil\112578002_LDA-4_Orangeburg\NYY_Civil\2_CAD\Plansheets\C-1.0 ZONING AND ABUTTERS PLAN.dwg

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GRAPHIC SCALE IN FEET
0 50 100 200

NORTH

NOTES

1. AERIAL IMAGE SOURCE SOURCE: NEARMAP IMAGERY (C) 2025 Nearmap, HERE - MARCH 19, 2025
2. KIMLEY-HORN DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ON THIS SHEET. INFORMATION PROVIDED FOR GENERAL INFORMATIONAL PURPOSES ONLY.

SHEET NUMBER C-1.1

DATABANK ORANGEBURG PHASE 2

2000 CORPORATE DRIVE
ORANGEBURG, NY 10962

TOWN OF ORANGETOWN NEW YORK

ADJACENT PARCELS PLAN

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

STATE OF NEW YORK — DANIEL LO PRESTO — 095 — LICENSED PROFESSIONAL ENGINEER — 05/15/2025

DATABANK

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New York

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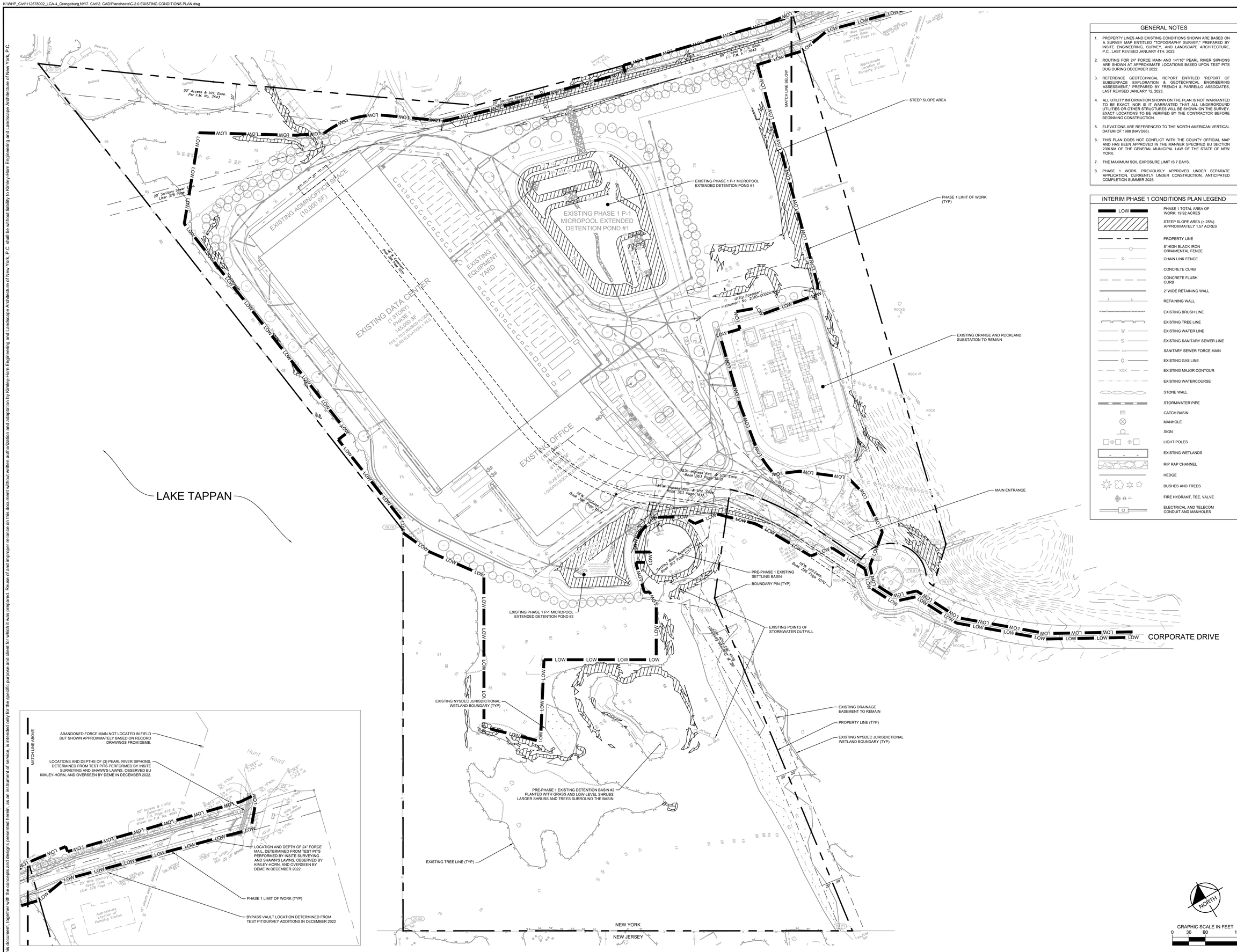
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NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-2.0 EXISTING CONDITIONS PLAN.dwg

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Saved Monday, April 21, 2025 9:18:23 AM KITTY.CHEN Plotted Thursday, May 15, 2025 8:11:43 AM Sudeth, Trent



GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ROUTING FOR 24" FORCE MAIN AND 14"/16" PEARL RIVER SIPHONS ARE SHOWN AT APPROXIMATE LOCATIONS BASED UPON TEST PITS DUG DURING DECEMBER 2022.
3. REFERENCE GEOTECHNICAL REPORT ENTITLED "REPORT OF SUBSURFACE EXPLORATION & GEOTECHNICAL ENGINEERING ASSESSMENT," PREPARED BY FRENCH & PARRELLO ASSOCIATES, LAST REVISED JANUARY 12, 2023.
4. ALL UTILITY INFORMATION SHOWN ON THE PLAN IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES WILL BE SHOWN ON THE SURVEY. EXACT LOCATIONS TO BE VERIFIED BY THE CONTRACTOR BEFORE BEGINNING CONSTRUCTION.
5. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
6. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BU SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
7. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
8. PHASE 1 WORK, PREVIOUSLY APPROVED UNDER SEPARATE APPLICATION, CURRENTLY UNDER CONSTRUCTION, ANTICIPATED COMPLETION SUMMER 2025.

INTERIM PHASE 1 CONDITIONS PLAN LEGEND

- PHASE 1 TOTAL AREA OF WORK: 19.92 ACRES
- STEEP SLOPE AREA (> 25%) APPROXIMATELY 1.57 ACRES
- PROPERTY LINE
- 8' HIGH BLACK IRON ORNAMENTAL FENCE
- CHAIN LINK FENCE
- CONCRETE CURB
- CONCRETE FLUSH CURB
- 2' WIDE RETAINING WALL
- RETAINING WALL
- EXISTING BRUSH LINE
- EXISTING TREE LINE
- EXISTING WATER LINE
- EXISTING SANITARY SEWER LINE
- SANITARY SEWER FORCE MAIN
- EXISTING GAS LINE
- EXISTING MAJOR CONTOUR
- EXISTING WATERCOURSE
- STONE WALL
- STORMWATER PIPE
- CATCH BASIN
- MANHOLE
- SIGN
- LIGHT POLES
- EXISTING WETLANDS
- RIP RAP CHANNEL
- HEDGE
- BUSHES AND TREES
- FIRE HYDRANT, TEE, VALVE
- ELECTRICAL AND TELECOM CONDUIT AND MANHOLES

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STATE OF NEW YORK
DANIEL LO FRISO
LIC. NO. 099097
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
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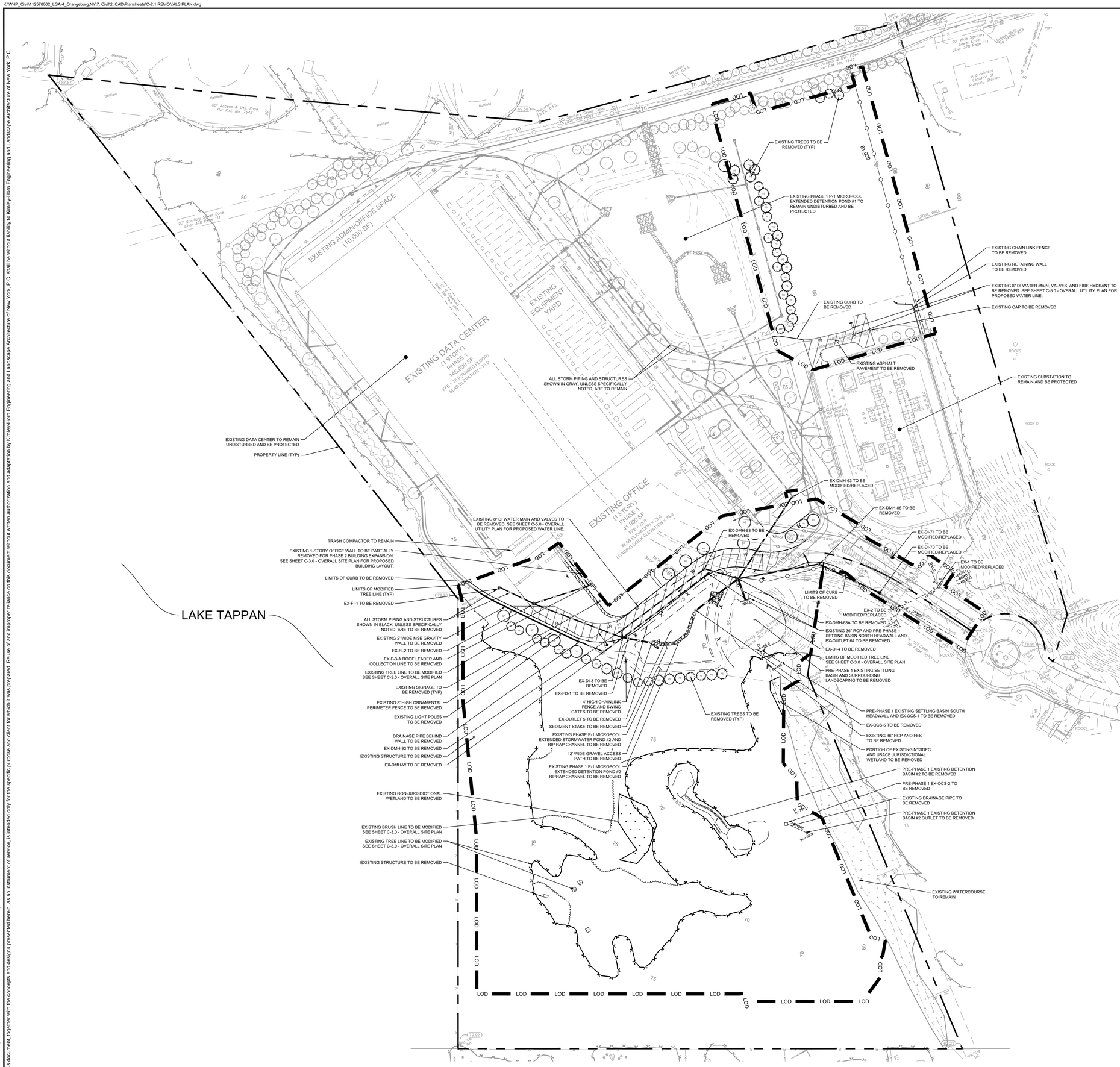
INTERIM CONDITION PLAN (PREVIOUSLY APPROVED PHASE 1)

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN — NEW YORK

SHEET NUMBER
C-2.0

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-2.1 REMOVALS PLAN.dwg



SITE REMOVALS LEGEND

- PROPERTY LINE
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXAMPLE OF PIPE AND STRUCTURES TO REMAIN (REFER TO NOTE 7)
- EXAMPLE OF PIPE AND STRUCTURES TO BE REMOVED (REFER TO NOTE 7)
- ASPHALT PAVEMENT REMOVAL
- WATERCOURSE TO REMAIN
- WATERCOURSE TO BE REMOVED

SITE REMOVALS NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. REFERENCE GEOTECHNICAL REPORT ENTITLED "REPORT OF SUBSURFACE EXPLORATION & GEOTECHNICAL ENGINEERING ASSESSMENT," PREPARED BY FRENCH & PARRELLO ASSOCIATES, LAST REVISED JANUARY 12, 2023.
3. ROUTING FOR 24" FORCE MAIN AND 14"/16" PEARL RIVER SIPHONS ARE SHOWN AT APPROXIMATE LOCATIONS BASED UPON TEST PITS DUG DURING DECEMBER 2022.
4. ALL UTILITY INFORMATION SHOWN ON THE PLAN IS NOT WARRANTED TO BE EXACT, NOR IS IT WARRANTED THAT ALL UNDERGROUND UTILITIES OR OTHER STRUCTURES WILL BE SHOWN ON THE SURVEY. EXACT LOCATIONS TO BE VERIFIED BY THE CONTRACTOR BEFORE BEGINNING CONSTRUCTION.
5. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AS SHOWN ON THE ABOVE MENTIONED SURVEY.
6. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
7. ALL LINEWORK AND NOTATION SHOWN IN BLACK ARE ITEMS OR AREAS TO BE DEMOLISHED, AND ALL LINEWORK SHADED IN GRAY ARE ITEMS TO REMAIN.
8. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
9. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
10. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
11. ALL TRUCK TRAFFIC WILL BE ON EXISTING PAVEMENT; THERE, A STABILIZED CONSTRUCTION ENTRANCE IS NOT NEEDED. ALL SEDIMENT TRACKING ON EXISTING PAVEMENT SHALL BE PREVENTED BY PERIODIC PAVEMENT SWEEPINGS.
12. PER CHAPTER 22 OF THE TOWN OF ORANGETOWN CODE, "THE FOLLOWING ACTS ARE PROHIBITED: THE SOUND OF ANY POWER TOOL, MACHINERY OR EQUIPMENT IN USE IN ANY CONSTRUCTION PROJECT OR THE REPAIR OF ANY BUILDING IN ANY COMMERCIAL ACTIVITY OR MANUFACTURING PROCESS NOT WHOLLY CONTAINED WITHIN A CLOSED STRUCTURE IN ANY ZONE OTHER THAN A RESIDENTIAL ZONE, PRIOR TO 7:00AM OR AFTER 8:00PM."
13. INLET PROTECTION AND SILT FENCE TO BE INSTALLED PRIOR TO DEMOLITION ACTIVITIES. REFER TO SHEET C-6.0 - OVERALL EROSION & SEDIMENT CONTROL PLAN.

STORMWATER FACILITY REMOVAL TABLE

STORMWATER FACILITY ID	STORMWATER FACILITY TYPE	STAGE OF REMOVAL
EX-DI-3	CURB INLET	STAGE 2
EX-DI-4	CURB INLET	STAGE 2
EX-DMH-63A	DRAINAGE MANHOLE	STAGE 3
EX-DMH-82	DRAINAGE MANHOLE	STAGE 2
EX-DMH-83	DRAINAGE MANHOLE	STAGE 2
EX-DMH-86	DRAINAGE MANHOLE	STAGE 3
EX-DMH-W	DRAINAGE MANHOLE	STAGE 2
EX-FD-1	FIRST DEFENSE UNIT	STAGE 2
EX-FI-1	FIELD INLET	STAGE 2
EX-FI-2	FIELD INLET	STAGE 2
EX-OCS-5	OUTLET CONTROL STRUCTURE	STAGE 2
PRE-PHASE 1 EX-OCS-1	OUTLET CONTROL STRUCTURE	STAGE 3
PRE-PHASE 1 EX-OCS-2	OUTLET CONTROL STRUCTURE	STAGE 1
PRE-PHASE 1 EXISTING SETTLING BASIN NORTH HEADWALL (EX-OUTLET 64)	HEADWALL/OUTLET	STAGE 3
PRE-PHASE 1 EXISTING SETTLING BASIN SOUTH HEADWALL	HEADWALL	STAGE 3
PRE-PHASE 1 EXISTING SETTLING BASIN OUTLET	FES	STAGE 3
PRE-PHASE 1 EXISTING DETENTION BASIN #2 OUTLET	FES	STAGE 1
EX-OUTLET 5	FES	STAGE 2
EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #2 RIPRAP CHANNEL	RIPRAP	STAGE 2
PRE-PHASE 1 EXISTING SETTLING BASIN	STORMWATER BASIN	STAGE 3
PRE-PHASE 1 EXISTING DETENTION BASIN #2	STORMWATER BASIN	STAGE 1
EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #2	STORMWATER BASIN	STAGE 2
EXISTING DRAINAGE PIPE BEHIND WALL	OUTLET	STAGE 2
EX-F-3-A ROOF LEADER	ROOF LEADER	STAGE 2
33 LF PIPE FROM PRE-PHASE 1 EX-OCS-2 TO PRE-PHASE 1 STORMWATER BASIN OUTLET	PIPE	STAGE 1
62 LF PIPE FROM EX-FI-1 TO EX-FI-2	PIPE	STAGE 2
95 LF PIPE FROM EX-F-3-A ROOF LEADER COLLECTION TO EX-DI-3	PIPE	STAGE 2
50 LF PIPE FROM EX-F-3 ROOF LEADER TO EX-F-3-A ROOF LEADER	PIPE	STAGE 2
155 LF PIPE FROM EX-FI-2 TO EX-DI-3	PIPE	STAGE 2
43 LF PIPE FROM EXISTING DRAINAGE PIPE BEHIND WALL TO EX-DI-3	PIPE	STAGE 2
39 LF PIPE FROM EX-DMH-W TO EX-DI-3	PIPE	STAGE 2
12 LF PIPE FROM EX-DI-3 TO EX-DMH-82	PIPE	STAGE 2
9 LF PIPE FROM EX-DI-3 TO EX-FD-1	PIPE	STAGE 2
39 LF FROM EX-FD-1 TO EX-OUTLET 5	PIPE	STAGE 2
173 LF PIPE FROM EX-DI-4 TO EX-DI-3	PIPE	STAGE 2
168 LF PIPE FROM EX-DMH-83 TO EX-DMH-63A	PIPE	STAGE 2
57 LF PIPE FROM EX-DMH-83 TO EX-DMH-63A	PIPE	STAGE 2
57 LF PIPE FROM EX-DMH-63A TO EX-OCS-5	PIPE	STAGE 2
37 LF PIPE FROM EX-DMH-63A TO EX-OUTLET 64	PIPE	STAGE 3
25 LF PIPE FROM EX-OCS-1 TO PRE-PHASE 1 EXISTING SETTLING BASIN FES	PIPE	STAGE 3
134 LF PIPE FROM DMH-86 TO DMH-63A	PIPE	STAGE 3
108 LF PIPE FROM DI-70 TO DMH-86	PIPE	STAGE 3
65 LF PIPE FROM EX-1 TO EX-2	PIPE	STAGE 3

GRAPHIC SCALE IN FEET
0 30 60 120

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STATE OF NEW YORK — DANIEL LO FRISO — No. 099051 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

OVERALL SITE REMOVALS PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

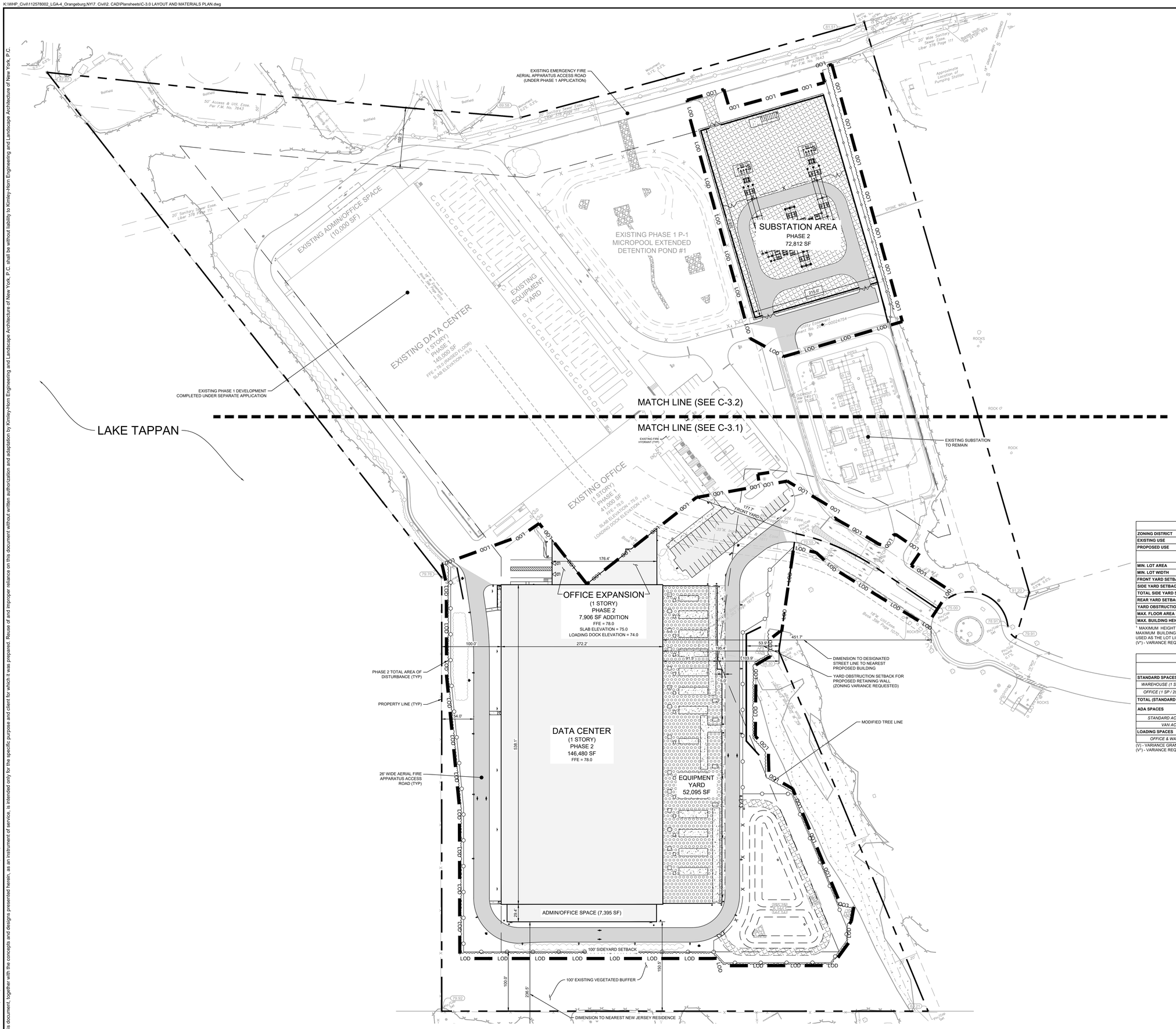
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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-3.0 LAYOUT AND MATERIALS PLAN.dwg



LEGEND

- PROPERTY LINE
- 100' SIDEYARD SETBACK
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- 20' WIDE DRAINAGE EASEMENT
- BUILDING
- HEAVY DUTY FLEXIBLE BITUMINOUS PAVEMENT
- STANDARD DUTY FLEXIBLE BITUMINOUS PAVEMENT
- CONCRETE
- EQUIPMENT YARD (STONE)
- GRAVEL
- 8' HIGH BLACK IRON ORNAMENTAL FENCE
- CONCRETE CURB
- CONCRETE FLUSH CURB
- 2' WIDE RETAINING WALL
- EXTENTS OF STORMWATER POND
- EXISTING WATERCOURSE
- MODIFIED TREE LINE
- EXISTING TREE LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- SNOW STORAGE AREA

SITE NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C. LAST REVISED JANUARY 4TH, 2023.
2. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURE DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. NO SOURCE BENCHMARK IS UTILIZED.
5. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239LΔM OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
6. ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
7. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
8. REFER TO ARCHITECTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS AND MATERIALS.
9. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3-FEET, TYPICAL.
10. SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS AND CURBS.
11. ALL ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.
12. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
13. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
14. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

ZONING REQUIREMENTS

ZONING DISTRICT	LIO - LIGHT INDUSTRIAL-OFFICE DISTRICT		
EXISTING USE	OFFICE		
PROPOSED USE	DATA CENTER		
	APPROVED (PHASE 1)	**REQUIRED (PHASE 1 & 2)**	**PROPOSED (PHASE 1 & 2)**
MIN. LOT AREA	33.93 AC	2 AC	33.93 AC
MIN. LOT WIDTH	1500 FT	300 FT	1500 FT
FRONT YARD SETBACK	177.7 FT	100 FT	177.7 FT
SIDE YARD SETBACK	100 FT	100 FT	100 FT
TOTAL SIDE YARD SETBACK	821.6 FT	200 FT	252.8 FT
REAR YARD SETBACK	100.6 FT	100 FT	100 FT
YARD OBSTRUCTION SETBACK	100 FT	100 FT	53.9 FT (V*)
MAX. FLOOR AREA RATIO	0.13	0.4	0.24
MAX. BUILDING HEIGHT	32 FT	113 FT[1]	38.5 FT

[1] MAXIMUM HEIGHT SHALL BE 3 INCHES PER FOOT OF DISTANCE FROM NEAREST LOT LINE AND MAXIMUM BUILDING HEIGHTS ARE SUBJECT TO 5.111, WITH THE DESIGNATED STREET LINE BEING USED AS THE LOT LINE.
(V*) - VARIANCE REQUESTED

PARKING REQUIREMENTS

	APPROVED (PHASE 1)	**REQUIRED (PHASE 1 & 2)**	**PROPOSED (PHASE 1 & 2)**
STANDARD SPACES	9 FT X 18 FT	9 FT X 18 FT	9 FT X 18 FT
WAREHOUSE (1 SP / 300 SF)	-	972 SPACES	-
OFFICE (1 SP / 200 SF GFA)	-	292 SPACES	-
TOTAL (STANDARD & ADA)	69 SPACES (V)	1264 SPACES	105 (V*)
ADA SPACES	STANDARD: 9 FT X 18 FT VAN: 11 FT X 18 FT	STANDARD: 8 FT X 18 FT VAN: 11 FT X 18 FT	STANDARD: 9 FT X 18 FT VAN: 11 FT X 18 FT
STANDARD ACCESSIBLE	5 SPACES	19 SPACES	5 SPACES
VAN ACCESSIBLE	1 SPACE	4 SPACES	1 SPACE
LOADING SPACES			
OFFICE & WAREHOUSE	2 SPACES (V)	18 SPACES	4 SPACES (V*)

(V) - VARIANCE GRANTED SEPTEMBER 21, 2022 (ZBA #22-56)
(V*) - VARIANCE REQUESTED

GRAPHIC SCALE IN FEET
0 30 60 120

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3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK — DANIEL LO PRESTI — 090067 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT 112578002
DATE 06/12/2024
SCALE: AS SHOWN
DESIGNED BY: TAS
DRAWN BY: KC
CHECKED BY: DL

OVERALL SITE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-3.0

Saved Thursday, May 15, 2025 8:03:50 AM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:12:12 AM Suddeth, Trent

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-3.0 LAYOUT AND MATERIALS PLAN.dwg

Saved Thursday, May 15, 2025 8:03:50 AM TRENT SUDDETH Plotted Thursday, May 15, 2025 8:12:15 AM Suddeth, Trent

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MATCH LINE (SEE C-3.2)

EXISTING OFFICE
(1 STORY)
PHASE 1
41,000 SF
FFE = 76.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0

OFFICE EXPANSION
(1 STORY)
PHASE 2
7,906 SF ADDITION
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0

DATA CENTER
(1 STORY)
PHASE 2
146,480 SF
FFE = 78.0

EQUIPMENT YARD
52,095 SF

ADMIN/OFFICE SPACE (7,395 SF)

EXISTING FIRE HYDRANT (TYP)
EXISTING SUBSTATION TO REMAIN
EXISTING PHASE 1 CURB LINE MEETS PROPOSED CURB LINE
EXISTING FIRE HYDRANT FROM PHASE 1 (TYP.)
PROPOSED 4' FIRE LANE STRIPING (TYP)
LOADING DOCK AND LOADING SPACES (TYP)
EXISTING PHASE 1 FENCE MEETS PROPOSED FENCE
2' WIDE MSE GRAVITY WALL TO MEET EXISTING WALL AT THIS LOCATION
PROPOSED FIRE HYDRANT (TYP)
EXISTING PHASE 1 PAVEMENT MEETS PROPOSED PAVEMENT
DIMENSION TO DESIGNATED STREET LINE TO NEAREST PROPOSED BUILDING
YARD OBSTRUCTION SETBACK FOR PROPOSED RETAINING WALL (ZONING VARIANCE REQUESTED)
RETAINING WALL (BY OTHERS) TOTAL LENGTH: 235 LF
WALL ATTACHED R8-31 (TYP.)
R8-31 (TYP)
PHASE 2 TOTAL AREA OF DISTURBANCE (TYP)
MODIFIED EXISTING TREE LINE (TYP)
PROPERTY LINE (TYP)
8' HIGH ORNAMENTAL PERIMETER FENCE
HEAVY DUTY ASPHALT PAVEMENT
EXISTING CHAIN LINK FENCE TO REMAIN
26' WIDE AERIAL FIRE APPARATUS ACCESS ROAD (TYP)
MODIFIED TREE LINE
12' CHAIN LINK SWING GATE
I-2 INFILTRATION BASIN #1 SIGN
CONCRETE PAD FOR VEHICLE ACCESS TO GENERATORS (TYP)
WALL ATTACHED R8-31 (TYP.)
CONCRETE ALONG FRONT OF EQUIPMENT YARD (FLUSH TO ASPHALT)
17' SCREEN WALL (SEE ARCHITECTURAL DRAWINGS)
PERMANENT SEDIMENT DEPTH MARKER
12' WIDE GRAVEL ACCESS PATH (TYP)
4' HIGH CHAINLINK FENCE AROUND STORMWATER POND (TYP)
I-2 INFILTRATION BASIN #1
PERMANENT SEDIMENT DEPTH MARKER
EXTENTS OF PROPOSED STORMWATER MANAGEMENT POND
5' WIDE CONCRETE SIDEWALK (TYP)
BUILDING MOUNTED R8-31
6" DIAMETER BOLLARDS AT BUILDING CORNERS (TYP)
DOOR (TYP)
100' SIDEYARD SETBACK
100' EXISTING VEGETATED BUFFER
12' CHAIN LINK SWING GATE
PROPOSED FIRE HYDRANT (TYP.)
DIMENSION TO NEAREST NEW JERSEY RESIDENCE
POOL

LEGEND

- PROPERTY LINE
- 100' SIDEYARD SETBACK
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- 20' WIDE DRAINAGE EASEMENT
- BUILDING
- HEAVY DUTY FLEXIBLE BITUMINOUS PAVEMENT
- STANDARD DUTY FLEXIBLE BITUMINOUS PAVEMENT
- CONCRETE
- EQUIPMENT YARD (STONE)
- GRAVEL
- 8' HIGH BLACK IRON ORNAMENTAL FENCE
- CONCRETE CURB
- CONCRETE FLUSH CURB
- 2' WIDE RETAINING WALL
- EXTENTS OF STORMWATER POND
- EXISTING WATERCOURSE
- MODIFIED TREE LINE
- EXISTING TREE LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- SNOW STORAGE AREA

SIGN LEGEND

M.U.T.C.D. Number	Specification		SIGN
	Width	Height	
R1-1	30"	30"	STOP
R8-31	24"	30"	NO PARKING FIRE LANE

SITE NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURE DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.
3. ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
4. NO SOURCE BENCHMARK IS UTILIZED.
5. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239LAM OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
6. ALL DIMENSIONS REFER TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
7. BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
8. REFER TO ARCHITECTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS AND MATERIALS.
9. RADII ADJACENT TO PARKING STALL AND NOT DIMENSIONED ON THIS PLAN SHALL BE 3-FEET, TYPICAL.
10. SIDEWALKS AND CURBS SHALL BE INSTALLED IN ACCORDANCE WITH THE HIGHWAY DEPARTMENT'S SPECIFICATIONS FOR SIDEWALKS AND CURBS.
11. ALL ON-SITE STRIPING SHALL BE PAINTED UNLESS OTHERWISE NOTED.
12. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
13. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
14. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
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1	ISSUED FOR PRC REVIEW	06/12/2024

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DATABANK

STATE OF NEW YORK — DANIEL LO FRISO — LICENSED PROFESSIONAL ENGINEER — NO. 099067
05/15/2025

KHA PROJECT 112578002

DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

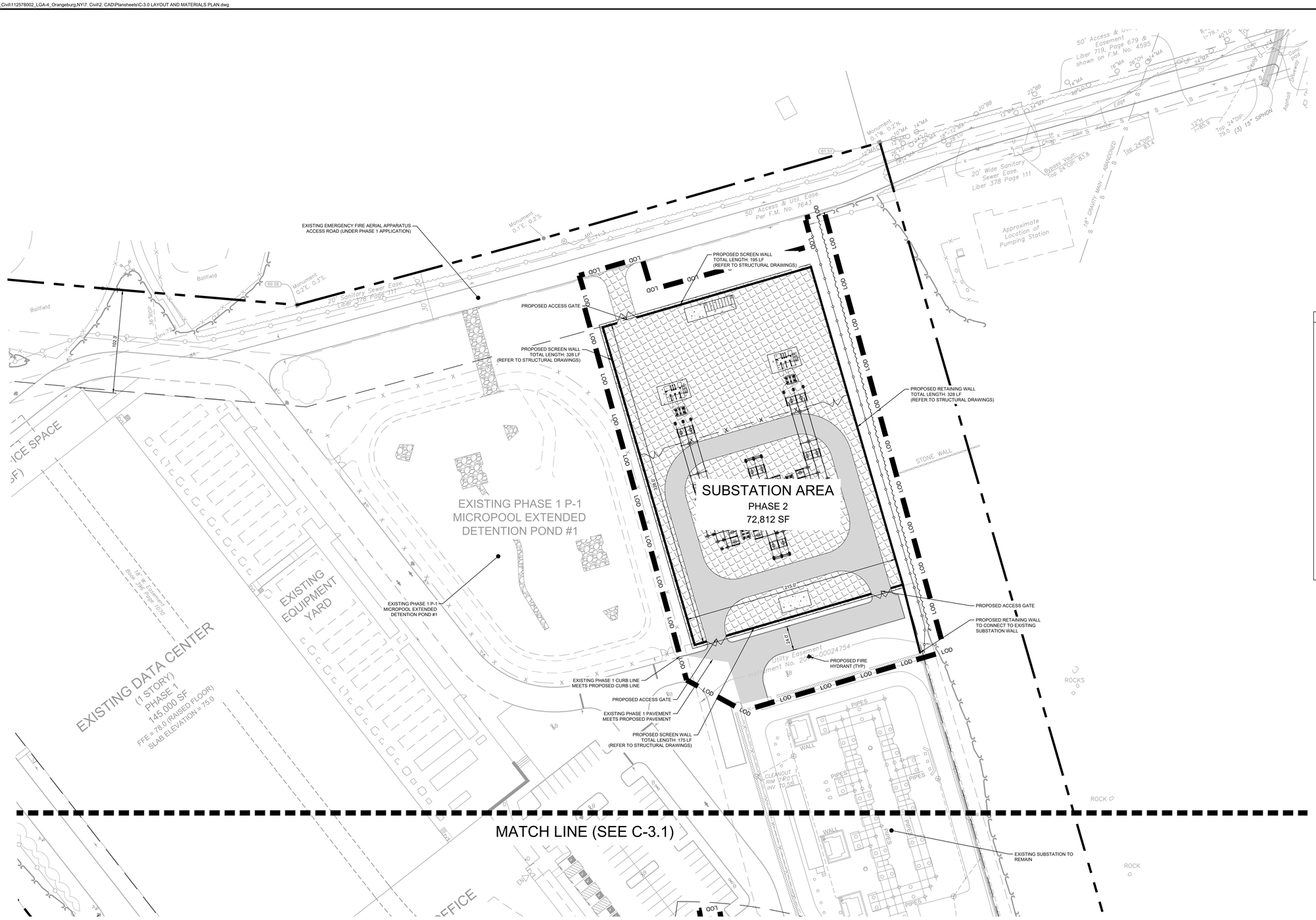
PARTIAL SITE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-3.1

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LEGEND

- PROPERTY LINE
- 100' SIDEYARD SETBACK
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- 20' WIDE DRAINAGE EASEMENT
- BUILDING
- HEAVY DUTY FLEXIBLE BITUMINOUS PAVEMENT
- STANDARD DUTY FLEXIBLE BITUMINOUS PAVEMENT
- CONCRETE
- EQUIPMENT YARD (STONE)
- GRAVEL
- 8' HIGH BLACK IRON ORNAMENTAL FENCE
- CONCRETE CURB
- CONCRETE FLUSH CURB
- 2' WIDE RETAINING WALL
- EXTENTS OF STORMWATER POND
- EXISTING WATERCOURSE
- MODIFIED TREE LINE
- EXISTING TREE LINE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- SNOW STORAGE AREA

SITE NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
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GRAPHIC SCALE IN FEET
0 20 40 80

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
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DATABANK

STATE OF NEW YORK — DANIEL LO FRISO — No. 090651 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

PARTIAL SITE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-3.2

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-3.X VEHICLE MANUEVERING PLAN.dwg

Saved Thursday, May 8, 2025 1:44:57 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:12:31 AM Suddeth, Trent

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LAKE TAPPAN

EXISTING ADMIN/OFFICE SPACE (10,000 SF)

EXISTING DATA CENTER (1 STORY) PHASE 1 145,000 SF FFE = 78.0 (RAISED FLOOR) SLAB ELEVATION = 75.0

EXISTING EQUIPMENT YARD

EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1

SUBSTATION AREA PHASE 2 72,812 SF

EXISTING OFFICE (1 STORY) PHASE 1 41,000 SF FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0

OFFICE EXPANSION (1 STORY) PHASE 2 7,906 SF ADDITION FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0

DATA CENTER (1 STORY) PHASE 2 146,480 SF FFE = 78.0

EQUIPMENT YARD 52,095 SF

ADMIN/OFFICE SPACE (7,395 SF)

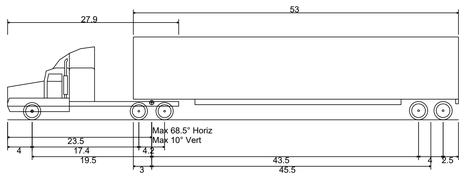
20' Wide Sanitary Sewer Ease. Liber 378 Page 111

Approximate Location of Pumping Station

STONE WALL

ROCKS

ROCK



WB-67 - Interstate Semi-Trailer	
Overall Length	73.501ft
Overall Width	8.500ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Max Steering Angle (Virtual)	28.40°

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

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PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK DANIEL LO FRISO LICENSED PROFESSIONAL ENGINEER No. 090067

05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

VEHICLE MANUEVERING (WB TRUCK)

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-3.3

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EXISTING ADMIN/OFFICE SPACE (10,000 SF)

EXISTING DATA CENTER (1 STORY) PHASE 1 145,000 SF FFE = 78 (RAISED FLOOR) SLAB ELEVATION = 76.0

EXISTING EQUIPMENT YARD

EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1

SUBSTATION AREA PHASE 2 72,812 SF

EXISTING OFFICE (1 STORY) PHASE 1 41,000 SF FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0

OFFICE EXPANSION (1 STORY) PHASE 2 7,906 SF ADDITION FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0

DATA CENTER (1 STORY) PHASE 2 146,480 SF FFE = 78.0

EQUIPMENT YARD 52,095 SF

ADMIN/OFFICE SPACE (7,395 SF)

LAKE TAPPAN

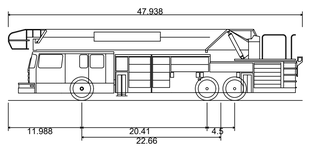
STONE WALL

20' Wide Sanitary Sewer Esmt Liber 378 Page 111

Approximate Location of Pumping Station

ROCKS

ROCK



100' Aerial Platform Body Assembly New Ladder

Overall Length	47.938ft
Overall Width	8.000ft
Overall Body Height	11.601ft
Min Body Ground Clearance	0.739ft
Track Width	8.000ft
Lock-to-lock time	6.00s
Max Wheel Angle	34.00°

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

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DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
NO. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
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VEHICLE MANUEVERING (FIRETRUCK)

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

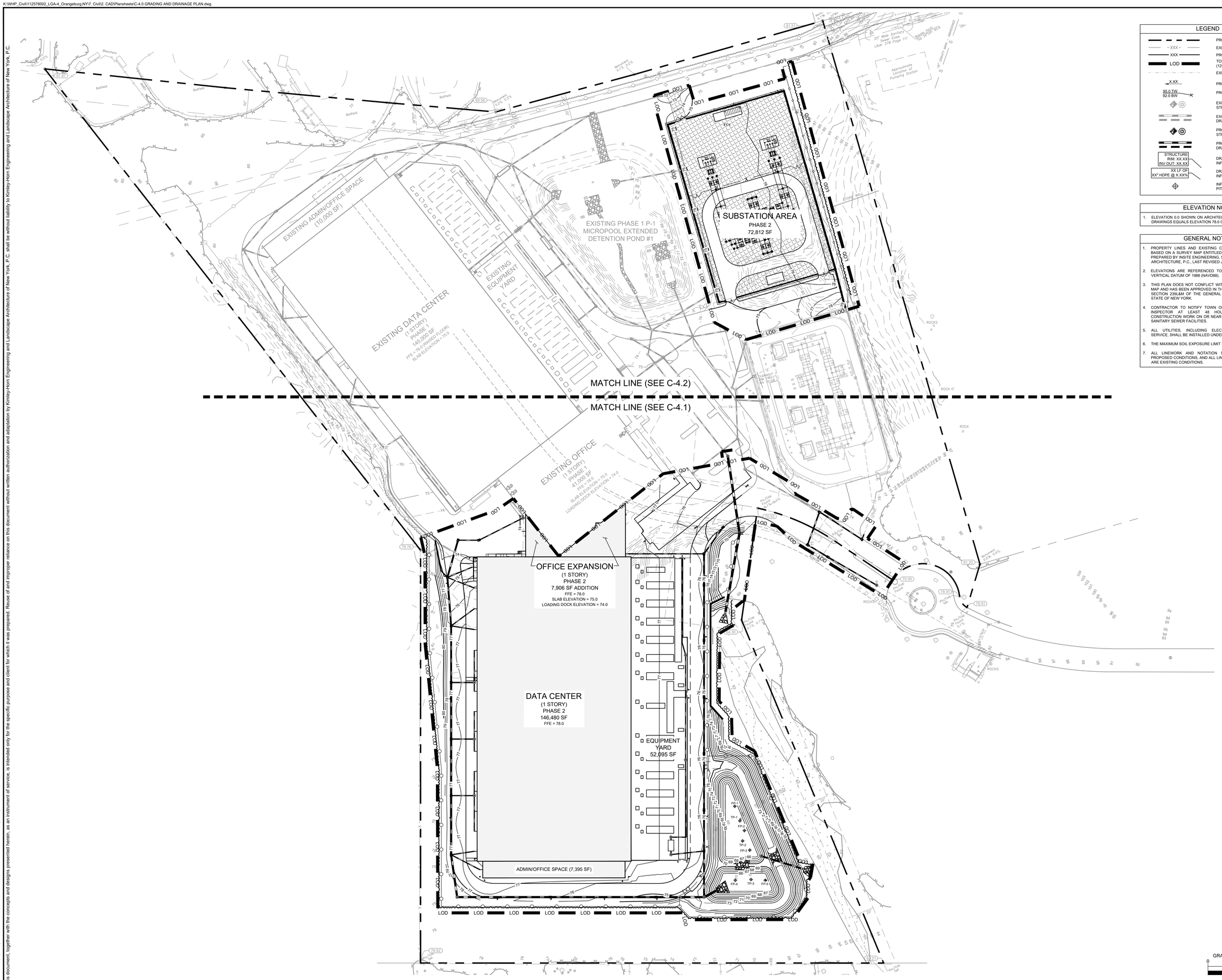
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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-4.0 GRADING AND DRAINAGE PLAN.dwg

Saved Thursday, May 8, 2025 2:14:16 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:12:51 AM Suddeth, Trent

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LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- PROPOSED SLOPE
- PROPOSED ELEVATION
- EXISTING STORM DRAINAGE STRUCTURES
- EXISTING STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE STRUCTURES
- PROPOSED STORM DRAINAGE PIPE
- DRAINAGE STRUCTURE INFORMATION
- DRAINAGE PIPE INFORMATION
- INFILTRATION TEST PIT LOCATION

ELEVATION NOTE

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6. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
7. ALL LINEWORK AND NOTATION SHOWN IN BLACK ARE PROPOSED CONDITIONS, AND ALL LINEWORK SHADED IN GRAY ARE EXISTING CONDITIONS.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
NO. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

OVERALL GRADING AND DRAINAGE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-4.0

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MATCH LINE (SEE C-4.2)

EXISTING OFFICE
(1 STORY)
PHASE 1
41,000 SF
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0

OFFICE EXPANSION
(1 STORY)
PHASE 2
7,906 SF ADDITION
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0

DATA CENTER
(1 STORY)
PHASE 2
146,480 SF
FFE = 78.0

ADMIN/OFFICE SPACE (7,395 SF)

EXISTING ROOF LEADER CONNECTION TO PROPOSED
INV IN: 70.64
INV OUT: 70.64

EXISTING ROOF LEADER CONNECTION
INV OUT: 71.00 8" PVC

5 LF OF 8" PVC @ 0.00%

29 LF OF 8" PVC @ 1.25%

5 LF OF 8" PVC @ 10.42%

DMH-100
RIM: 74.50
INV IN: 70.15 8" PVC
INV IN: 71.00 8" PVC
INV OUT: 70.26 15" HDPE

H-1 ROOF LEADER CONNECTION
INV OUT: 71.00

87 LF OF 15" HDPE @ 0.50%

FI-100
RIM: 73.43
INV IN: 69.82 15" HDPE
INV OUT: 69.82 15" HDPE

37 LF OF 15" HDPE @ 0.50%

FI-101
RIM: 73.20
INV IN: 69.63 15" HDPE
INV OUT: 69.62 24" HDPE

PROPOSED RETAINING WALL

68 LF OF 24" HDPE @ 0.33%

DRAINAGE PIPE BEHIND WALL
INV OUT: 70.00

16 LF OF 6" HDPE @ -5.43%

DI-100
RIM: 74.57
INV IN: 69.39 24" HDPE
INV IN: 70.72 8" PVC
INV IN: 70.89 6" HDPE
INV IN: 70.72 8" PVC
INV OUT: 69.39 24" HDPE

86 LF OF 24" HDPE @ 0.33%

DI-101
RIM: 76.56
INV IN: 69.11 24" HDPE
INV IN: 70.44 8" PVC
INV IN: 70.44 8" PVC
INV OUT: 69.11 24" HDPE

100 LF OF 24" HDPE @ 0.33%

41 LF OF 15" HDPE @ 7.09%

DI-102
RIM: 76.64
INV IN: 68.78 24" HDPE
INV IN: 69.53 15" HDPE
INV OUT: 68.78 30" HDPE

100 LF OF 30" HDPE @ 0.33%

41 LF OF 15" HDPE @ 6.86%

DI-103
RIM: 76.64
INV IN: 68.45 30" HDPE
INV IN: 69.70 15" HDPE
INV OUT: 68.45 30" HDPE

100 LF OF 30" HDPE @ 0.33%

41 LF OF 15" HDPE @ 7.32%

DI-104
RIM: 76.64
INV IN: 68.12 30" HDPE
INV IN: 69.37 15" HDPE
INV OUT: 68.12 30" HDPE

105 LF OF 30" HDPE @ 0.33%

DI-105
RIM: 76.57
INV IN: 67.77 30" HDPE
INV IN: 69.61 8" PVC
INV IN: 69.61 8" PVC
INV OUT: 67.77 30" HDPE

76 LF OF 30" HDPE @ 0.33%

DMH-101
RIM: 78.61
INV IN: 67.52 30" HDPE
INV OUT: 67.52 30" HDPE

H-2 ROOF LEADER CONNECTION
INV OUT: 73.00

47 LF OF 8" PVC @ 4.86%

H-3 ROOF LEADER CONNECTION
INV OUT: 73.00

51 LF OF 8" PVC @ 4.44%

H-4 ROOF LEADER CONNECTION
INV OUT: 73.00

51 LF OF 8" PVC @ 5.02%

H-5 ROOF LEADER CONNECTION
INV OUT: 73.00

41 LF OF 8" PVC @ 6.17%

H-6 ROOF LEADER CONNECTION
INV OUT: 73.00

H-7 ROOF LEADER CONNECTION
INV OUT: 73.00

20 LF OF 12" PVC @ 1.00%

DMH-103
RIM: 77.91
INV IN: 72.43 12" PVC
INV IN: 72.50 8" PVC
INV OUT: 72.43 15" HDPE

H-8 ROOF LEADER CONNECTION
INV OUT: 73.00

H-9 ROOF LEADER CONNECTION
INV OUT: 73.00

35 LF OF 12" PVC @ 1.00%

H-10 ROOF LEADER CONNECTION
INV OUT: 73.00

14 LF OF 12" PVC @ 1.00%

DMH-104
RIM: 77.91
INV IN: 72.51 12" PVC
INV IN: 74.40 8" PVC
INV OUT: 72.51 15" HDPE

22 LF OF 8" PVC @ 0.50%

H-11 ROOF LEADER CONNECTION
INV OUT: 74.53

H-12 ROOF LEADER CONNECTION
INV OUT: 73.00

35 LF OF 12" PVC @ 1.00%

H-13 ROOF LEADER CONNECTION
INV OUT: 73.00

6 LF OF 12" PVC @ 1.00%

DMH-105
RIM: 77.91
INV IN: 72.57 12" PVC
INV IN: 72.37 12" PVC
INV OUT: 72.37 15" HDPE

28 LF OF 12" PVC @ 1.00%

H-14 ROOF LEADER CONNECTION
INV OUT: 73.00

35 LF OF 12" PVC @ 1.00%

H-15 ROOF LEADER CONNECTION
INV OUT: 73.00

H-16 ROOF LEADER CONNECTION
INV OUT: 73.00

41 LF OF 8" PVC @ 8.18%

57 LF OF 8" PVC @ 5.92%

H-17 ROOF LEADER CONNECTION
INV OUT: 73.00

DI-115
RIM: 74.44
INV OUT: 71.63 15" HDPE

58 LF OF 15" HDPE @ 0.50%

DI-108
RIM: 75.82
INV IN: 71.92 8" PVC
INV IN: 71.34 15" HDPE
INV OUT: 71.34 24" HDPE

134 LF OF 8" PVC @ 0.80%

I-3 ROOF LEADER COLLECTION LINE
INV IN: 73.00
INV OUT: 73.00

I-3 ROOF LEADER CONNECTION
INV OUT: 73.00

PERFORATED PIPE TO BE CAPPED AT THIS END
INV: 73.68

55 LF OF 24" HDPE @ 0.50%

DI-109
RIM: 75.81
INV IN: 71.06 24" HDPE
INV OUT: 71.06 24" HDPE

149 LF OF 10" HDPE (PERFORATED) @ 0.50%

98 LF OF 24" HDPE @ 0.50%

DI-110
RIM: 75.80
INV IN: 70.57 24" HDPE
INV OUT: 70.57 24" HDPE

DMH-109
RIM: 76.53
INV IN: 72.82 10" HDPE (PERFORATED)
INV OUT: 72.82 10" HDPE (PERFORATED)

100 LF OF 24" HDPE @ 0.50%

DI-111
RIM: 75.80
INV IN: 70.07 24" HDPE
INV OUT: 70.07 24" HDPE

185 LF OF 10" HDPE (PERFORATED) @ 0.50%

100 LF OF 24" HDPE @ 0.50%

DI-112
RIM: 76.00
INV IN: 69.57 24" HDPE
INV OUT: 69.57 24" HDPE

DMH-108
RIM: 76.54
INV IN: 71.90 10" HDPE (PERFORATED)
INV OUT: 71.90 10" HDPE (PERFORATED)

100 LF OF 24" HDPE @ 0.50%

100 LF OF 24" HDPE @ 0.50%

DI-113
RIM: 75.79
INV IN: 69.07 24" HDPE
INV OUT: 66.85 24" HDPE
INV OUT: 66.34 24" HDPE (BYPASS)

72 LF OF 24" HDPE @ 0.50%

27 LF OF 10" HDPE @ 0.50%

DMH-107
RIM: 76.79
INV IN: 71.08 10" HDPE
INV OUT: 71.08 10" HDPE

OWS-IN
INV IN: 71.10

OWS-OUT
INV OUT: 70.82

OWS-1 (MODEL 7000 OIL WATER)

6 LF OF 10" HDPE @ 1.86%

DMH-106
RIM: 76.79
INV IN: 70.70 10" HDPE
INV OUT: 68.50 10" HDPE

59 LF OF 10" HDPE @ 1.44%

DI-114
RIM: 75.91
INV IN: 66.49 24" HDPE
INV IN: 67.65 10" HDPE
INV OUT: 66.49 24" HDPE

165 LF OF 30" HDPE @ 0.33%

DI-106
RIM: 76.13
INV IN: 66.98 30" HDPE
INV OUT: 66.98 30" HDPE

187 LF OF 30" HDPE @ 0.33%

DI-107
RIM: 74.89
INV IN: 66.36 30" HDPE
INV OUT: 66.36 30" HDPE
INV OUT: 66.36 30" HDPE (BYPASS)

85 LF OF 30" HDPE @ 0.33%

100' EXISTING VEGETATED BUFFER

EX-DMH-63
RIM: 75.43
INV IN: 64.48 24" HDPE (EXISTING)
INV OUT: 64.48 24" HDPE

137 LF OF 24" HDPE @ 0.35%

DMH-110
RIM: 69.93
INV IN: 64.00 24" HDPE
INV OUT: 64.00 24" HDPE

141 LF OF 24" HDPE @ 0.35%

EX-DI-70
RIM: 72.83
INV IN: 69.51 15" HDPE
INV OUT: 69.51 15" HDPE

42 LF OF 15" HDPE @ 0.50%

EX-2
RIM: 72.69
INV IN: 69.72 15" HDPE
INV OUT: 69.72 15" HDPE

99 LF OF 15" HDPE @ 0.50%

DMH-111 (DOGHOUSE MANHOLE)
RIM: 74.16
INV IN: 70.22 15" RCP
INV OUT: 70.22 15" HDPE

OUTFALL 200
INV OUT: 63.50

EX-DI-71
RIM: 72.86
INV IN: 69.20 15" HDPE
INV IN: 69.20 15" HDPE

89 LF OF 15" HDPE @ 0.57%

CONNECTION TO EXISTING
RIM: 70.83
INV OUT: 69.75 12" PVC
INV OUT: 69.75 12" PVC

10 LF OF 12" PVC @ 0.47%

EX-1
RIM: 72.60
INV IN: 69.71 12" PVC
INV OUT: 69.71 15" HDPE

62 LF OF 15" HDPE @ 0.50%

EXISTING SUBSTATION
6" PERFORATED PVC UNDERDRAIN

EX-18
RIM: 74.56
INV IN: 74.02 6" PVC
INV OUT: 74.02 6" PVC

EX-17
RIM: 74.35
INV IN: 73.80 6" PVC
INV OUT: 73.58 6" PVC
INV OUT: 73.58 6" PVC

EX-16
RIM: 74.12
INV IN: 73.58 6" PVC
INV OUT: 73.58 6" PVC

EX-15
RIM: 81.99
INV IN: 76.50 6" PVC
INV OUT: 76.50 6" PVC

10" PERFORATED CMP UNDERDRAIN

EX-25
RIM: 74.0
INV IN: 70.55 8" DIP
INV OUT: 70.55 8" DIP

EX-27
RIM: 74.50
INV IN: 70.26 10" CMP
INV OUT: 70.26 10" CMP

EX-22
RIM: 75.55
INV IN: 71.50 6" PVC

EX-21
RIM: 75.55
INV IN: 71.50 6" PVC

EX-14
RIM: 82.37
INV OUT: 78.27 15" RCP

118 LF OF 15" RCP @ 9.39%

EX-13
RIM: 81.16
INV IN: 76.56 15" RCP
INV OUT: 76.56 15" RCP

40 LF OF 15" RCP @ 0.50%

EX-12
RIM: 81.00
INV IN: 76.36 15" RCP
INV OUT: 76.29 15" RCP

210 LF OF 15" RCP @ 2.69%

I-2 INFILTRATION BASIN #1 SIGN

PERMANENT SEDIMENT DEPTH MARKER

OCS-100
DIM: 5'W X 5'L
RIM: 71.0
3' W X 0.9' H RECTANGULAR WEIR: 70.1
4' X 4' HORIZONTAL GRATE INLET: 71.0
INV OUT: 68.00 24" HDPE

OCS-100
RIM: 70.58
INV OUT: 68.00 24" HDPE

EMERGENCY SPILLWAY
EL = 72.0

73 LF OF 24" HDPE @ 6.29%

OUTFALL 100
INV OUT: 63.41

PERMANENT SEDIMENT DEPTH MARKER

I-2 INFILTRATION BASIN #1
BOB: 66.0
TOB: 73.0'

OUTLET 100
INV OUT: 66.00

25 LF OF 36" HDPE @ 0.33%

DMH-102
RIM: 73.33
INV IN: 66.08 30" HDPE
INV IN: 66.08 24" HDPE
INV OUT: 66.08 36" HDPE

POOL

ROCK

ROCKS

WALL

PIPES

BIKE

LOD

Pin/Cap Found

Pin/Cap Set

Monument Found 0.5'S.

LEGEND

	PROPERTY LINE
XXX	EXISTING CONTOUR
XXX	PROPOSED CONTOUR
LOD	TOTAL AREA OF DISTURBANCE (12.67 AC)
	EXISTING WATERCOURSE
X.XX	PROPOSED SLOPE
95.0 TW 92.0 BW	PROPOSED ELEVATION
	EXISTING STORM DRAINAGE STRUCTURES
	EXISTING STORM DRAINAGE PIPE
	PROPOSED STORM DRAINAGE STRUCTURES
	PROPOSED STORM DRAINAGE PIPE
STRUCTURE RIM: XX.XX INV OUT: XX.XX	DRAINAGE STRUCTURE INFORMATION
XX LF OF XX" HDPE @ X.XX%	DRAINAGE PIPE INFORMATION
	INFILTRATION TEST PIT LOCATION

STRUCTURE TITLE ABBREVIATIONS

DI-XX	DRAINAGE INLET
FI-XX	FIELD INLET
DMH-XX	DRAINAGE MANHOLE
OCS-XX	OUTLET CONTROL STRUCTURE
OWS-XX	OIL/WATER SEPARATOR
EX-XX	EXISTING STRUCTURE

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NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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DATABANK

STATE OF NEW YORK
DANIEL LO PRESTI
LICENSED PROFESSIONAL ENGINEER
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KHA PROJECT	112578002		
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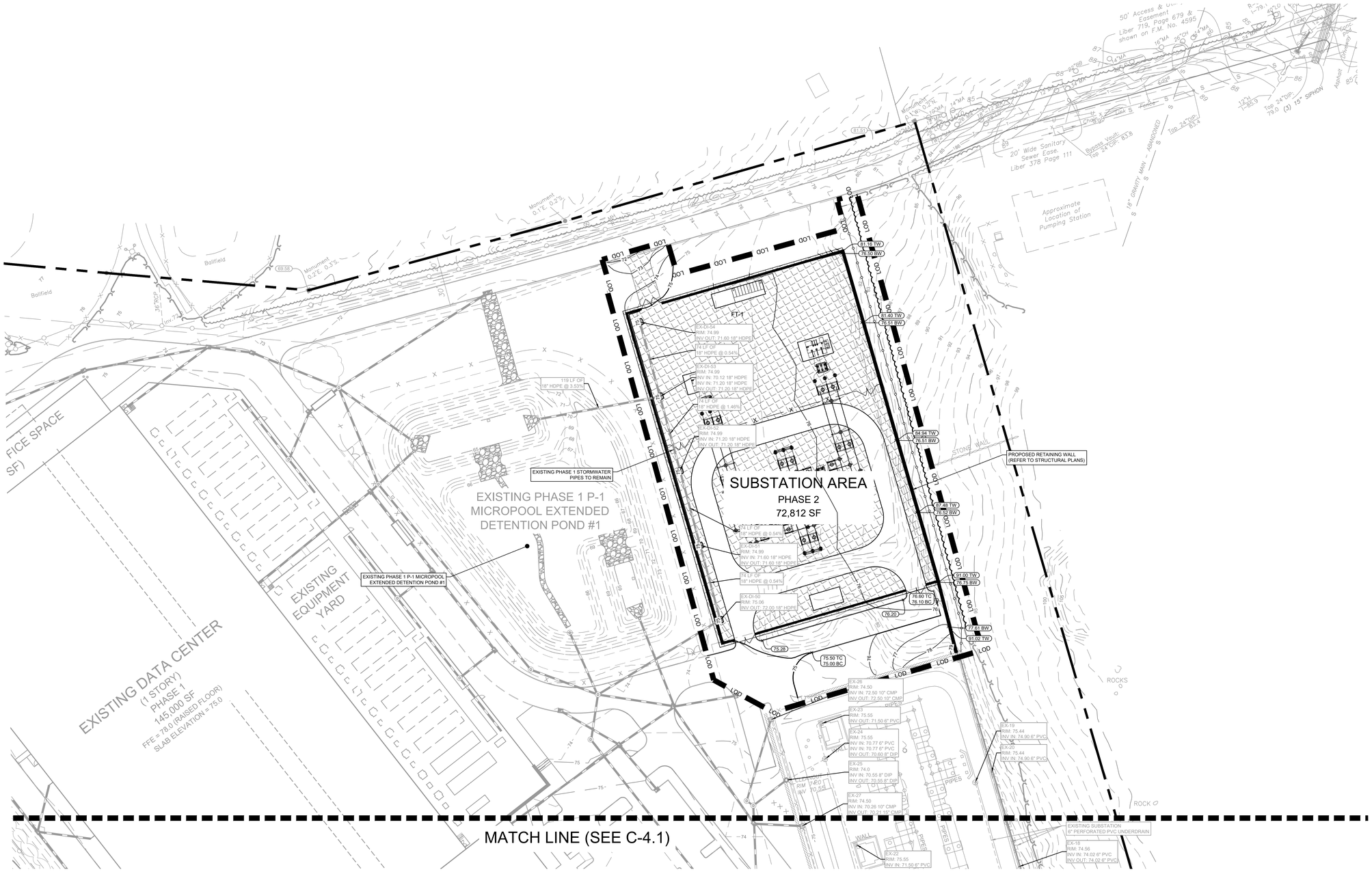
PARTIAL GRADING AND DRAINAGE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-4.1

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	PROPOSED STORM DRAINAGE PIPE
STRUCTURE RIM: XX.XX INV OUT: XX.XX	DRAINAGE STRUCTURE INFORMATION
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ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

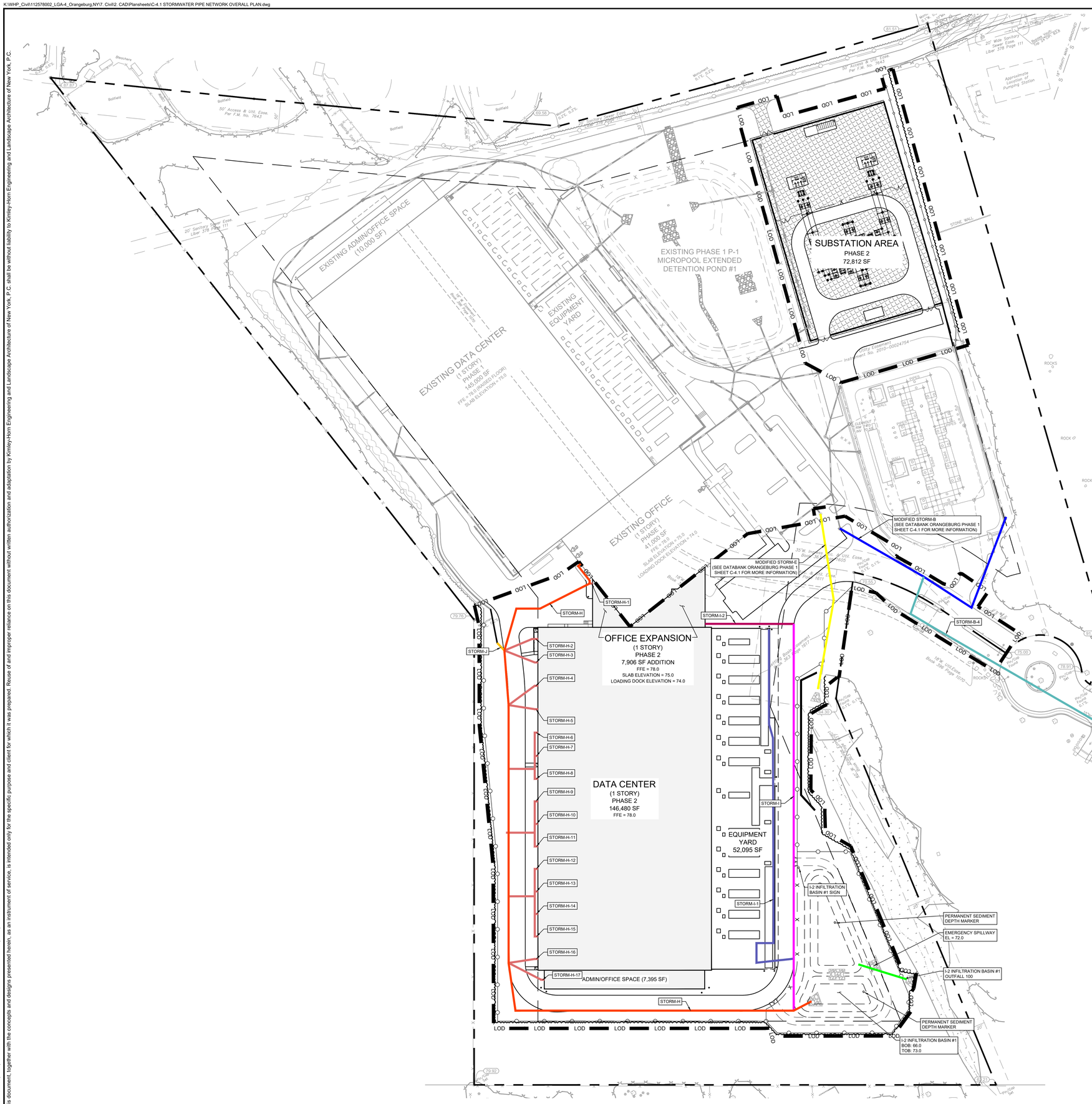
SHEET NUMBER
C-4.2

Saved Thursday, May 8, 2025 2:14:16 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:13:03 AM Suddeth, Trent

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-4.1 STORMWATER PIPE NETWORK OVERALL PLAN.dwg



LEGEND

- PROPERTY LINE
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- PROPOSED STORM DRAINAGE STRUCTURES
- PROPOSED STORM DRAINAGE PIPE

STORMWATER PIPE NETWORK LEGEND

- MODIFIED STORM-B
- STORM-B-4
- MODIFIED STORM-E
- STORM-H
- STORM-I
- STORM-I-1
- STORM-I-2
- STORM-J
- I-2 INFILTRATION POND #1 OUTFALL 100
- ROOF LEADERS

ELEVATION NOTE

1. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.

GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
4. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
5. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
6. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
7. THIS SHEET IS IN COLOR AND VALID ONLY WHEN PRINTED IN COLOR.

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York

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DATABANK

STATE OF NEW YORK
DANIEL LO PRISCO
No. 099067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

STORMWATER PIPE NETWORK OVERALL PLAN

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-4.3

Saved Tuesday, May 6, 2025 2:26:44 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:13:18 AM Suddath, Trent

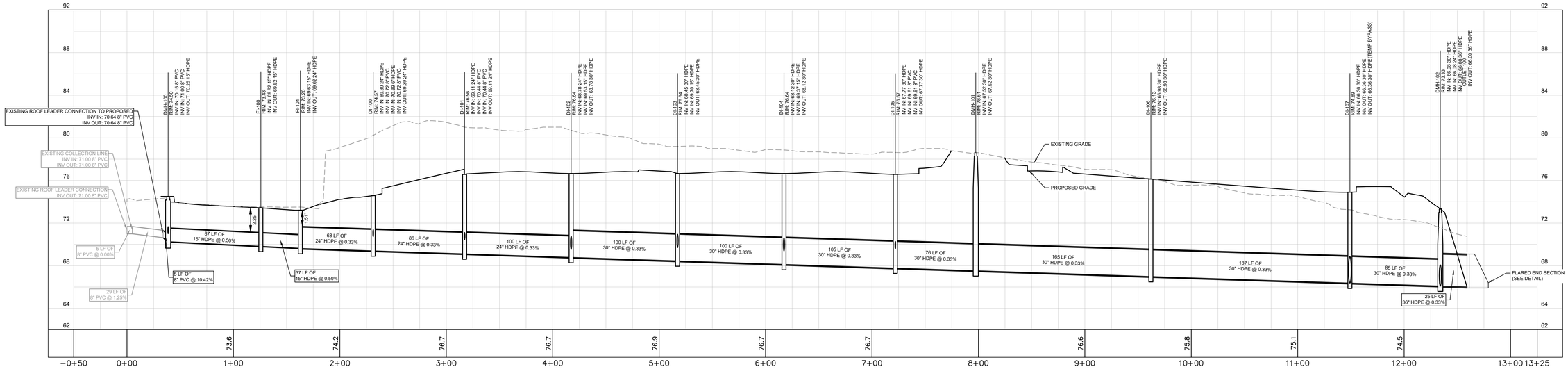
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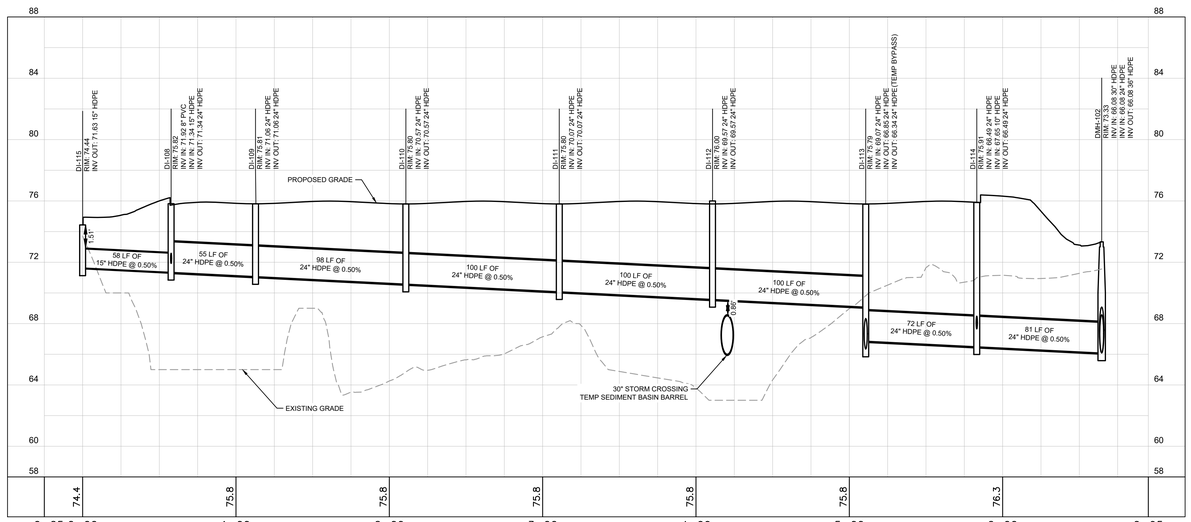
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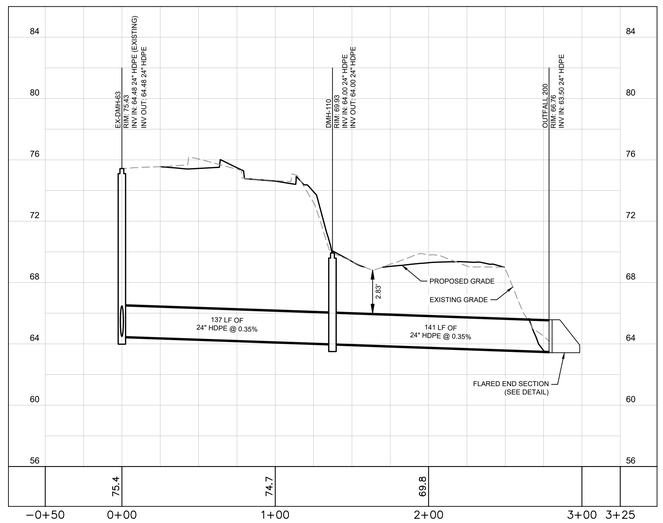
STORM-H

SCALE: 1" = 40' H
1" = 4' V



STORM-I

SCALE: 1" = 40' H
1" = 4' V

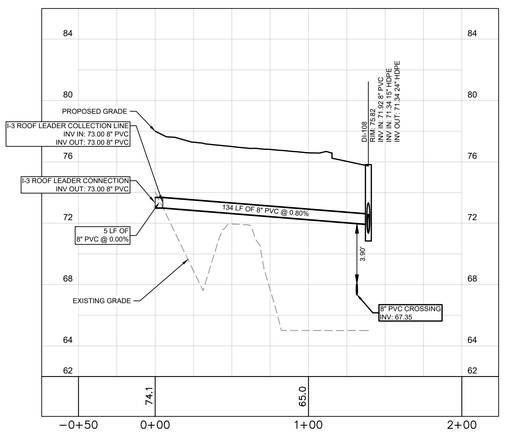


MODIFIED STORM E

SCALE: 1" = 40' H
1" = 4' V

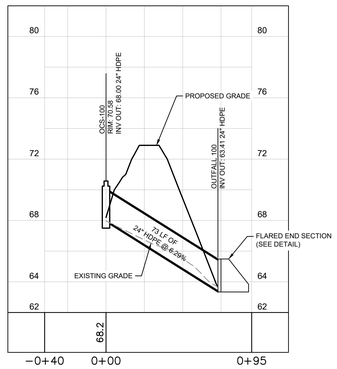
STORM-I-1

SCALE: 1" = 40' H
1" = 4' V



STORM-I-2

SCALE: 1" = 40' H
1" = 4' V



OUTFALL 100

SCALE: 1" = 40' H
1" = 4' V

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

0 2 4 8
VERTICAL

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DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
No. 090061
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KG
CHECKED BY:	DL

STORMWATER PROFILE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

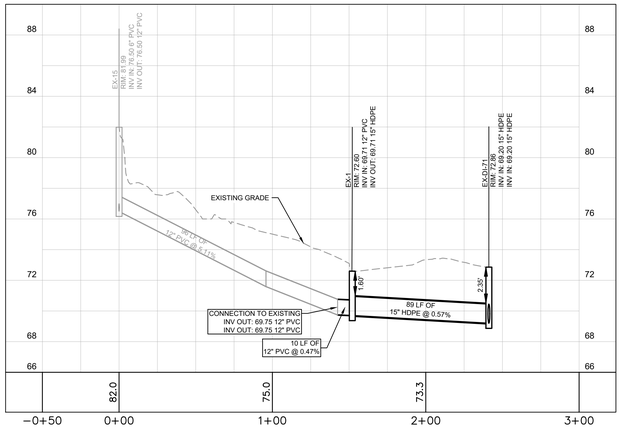
SHEET NUMBER
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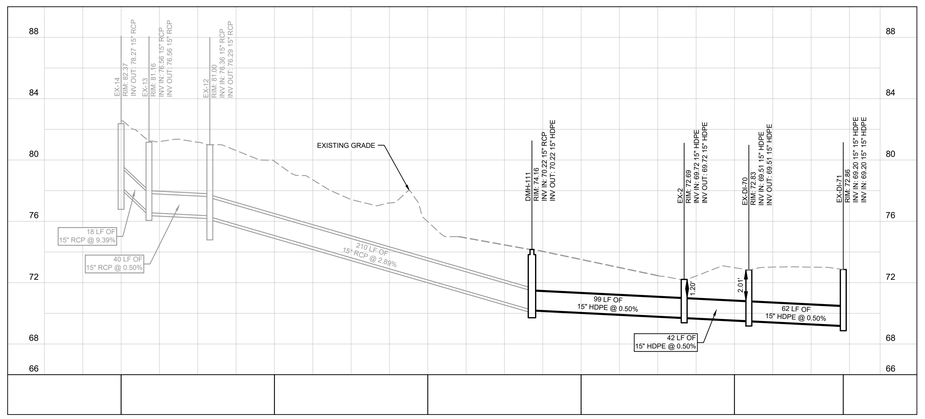
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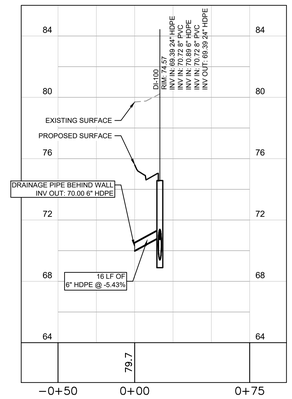
MODIFIED STORM-B

SCALE: 1" = 40' H
1" = 4' V



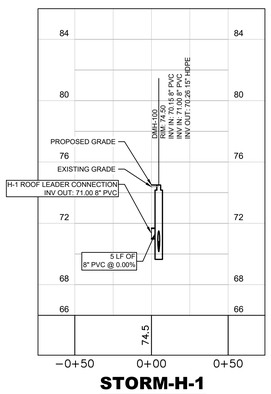
STORM-B-4

SCALE: 1" = 40' H
1" = 4' V



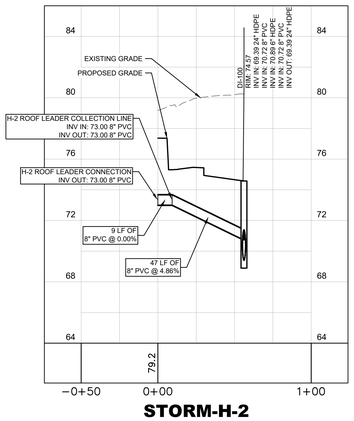
STORM-J

SCALE: 1" = 40' H
1" = 4' V



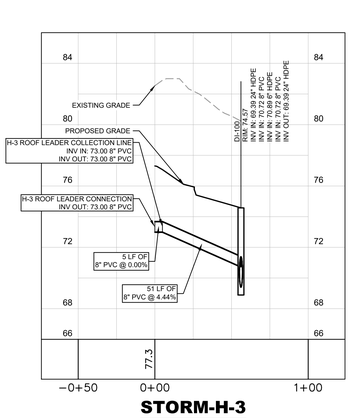
STORM-H-1

SCALE: 1" = 40' H
1" = 4' V



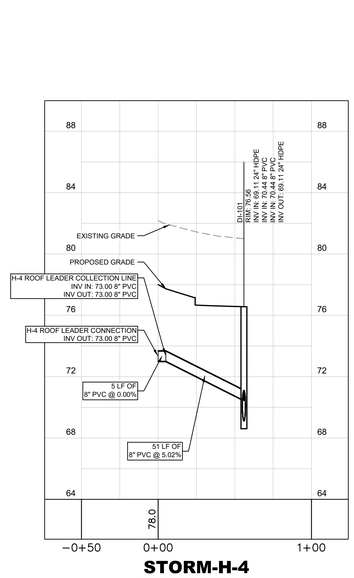
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SCALE: 1" = 40' H
1" = 4' V



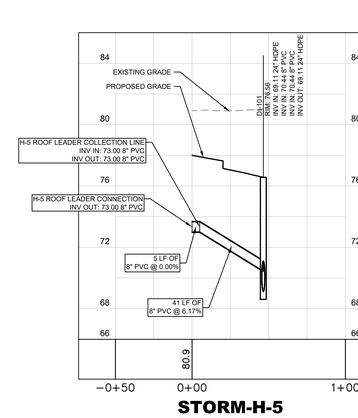
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SCALE: 1" = 40' H
1" = 4' V



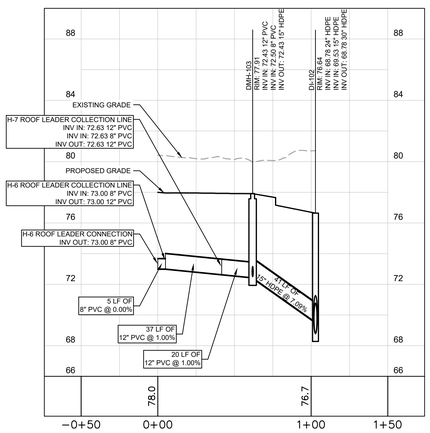
STORM-H-4

SCALE: 1" = 40' H
1" = 4' V



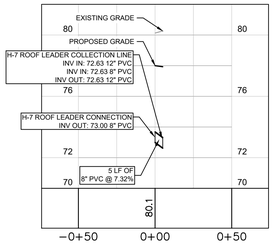
STORM-H-5

SCALE: 1" = 40' H
1" = 4' V



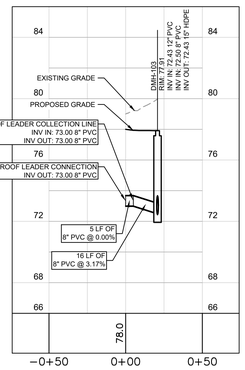
STORM-H-6

SCALE: 1" = 40' H
1" = 4' V



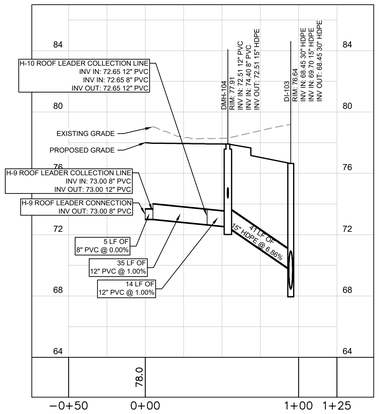
STORM-H-7

SCALE: 1" = 40' H
1" = 4' V



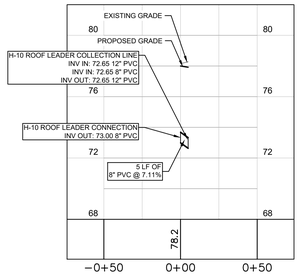
STORM-H-8

SCALE: 1" = 40' H
1" = 4' V



STORM-H-9

SCALE: 1" = 40' H
1" = 4' V



STORM-H-10

SCALE: 1" = 40' H
1" = 4' V

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

0 2 4 8
VERTICAL

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
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STATE OF NEW YORK
DANIEL LO FRISO
LICENSED PROFESSIONAL ENGINEER
NO. 090067
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

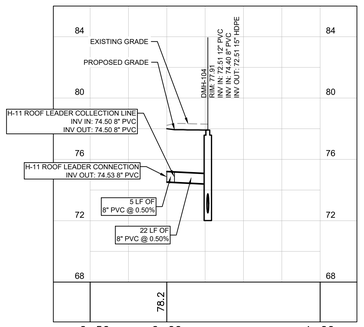
STORMWATER PROFILE PLAN

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PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN
NEW YORK

SHEET NUMBER
C-4.5

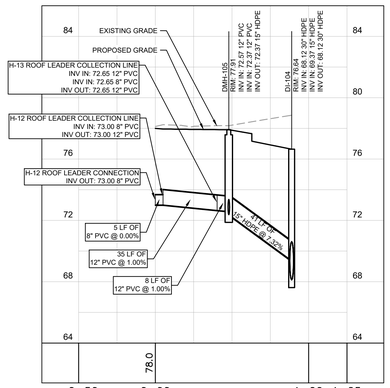
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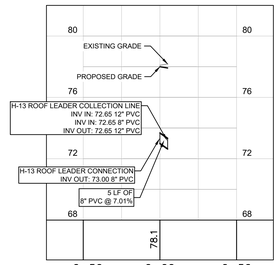
STORM-H-11

SCALE: 1" = 40' H
1" = 4' V



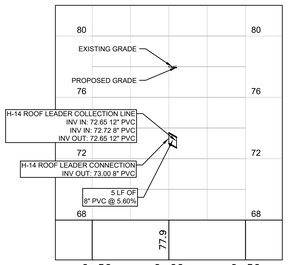
STORM-H-12

SCALE: 1" = 40' H
1" = 4' V



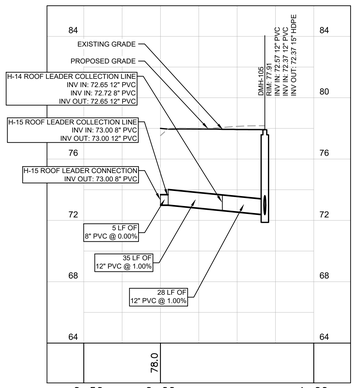
STORM-H-13

SCALE: 1" = 40' H
1" = 4' V



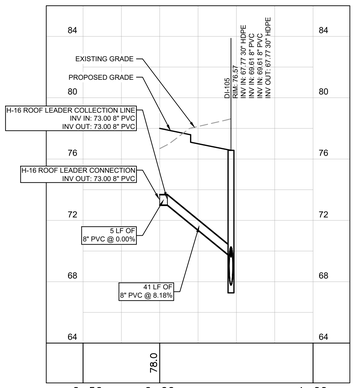
STORM-H-14

SCALE: 1" = 40' H
1" = 4' V



STORM-H-15

SCALE: 1" = 40' H
1" = 4' V



STORM-H-16

SCALE: 1" = 40' H
1" = 4' V

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

0 2 4 8
VERTICAL

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05/15/2025

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STORMWATER PROFILE PLAN

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TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-4.6

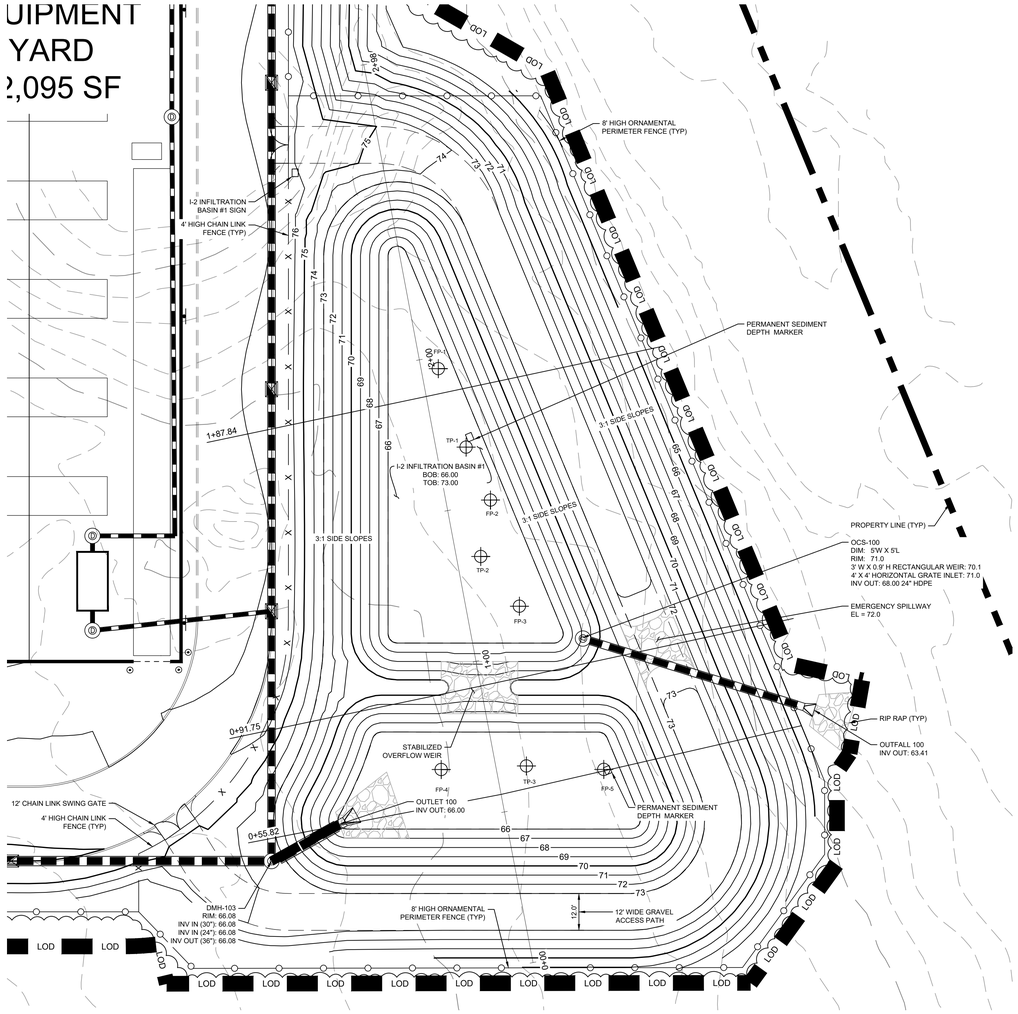
Saved Tuesday, April 29, 2025 9:44:07 AM KITTY.CHEN Plotted Thursday, May 15, 2025 8:13:59 AM Suddeth, Trent

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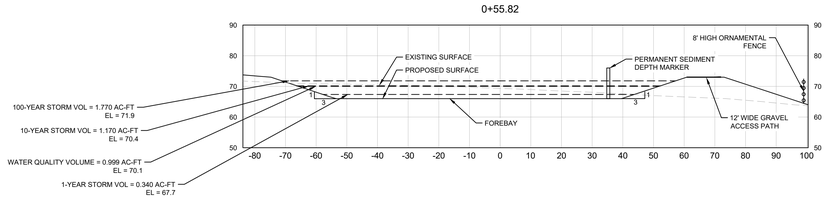
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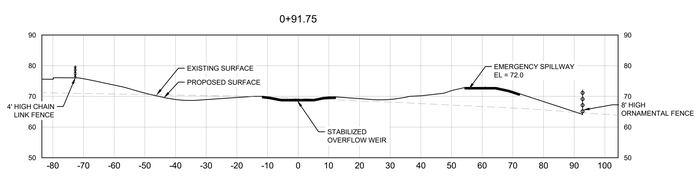
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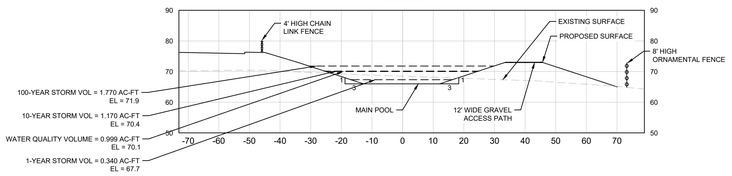
Saved Thursday, May 8, 2025 2:09:32 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:14:18 AM Suddeth, Trent



I-2 INFILTRATION BASIN #1 ENLARGED VIEW







GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 10 20 40
VERTICAL

I-2 INFILTRATION BASIN #1 CROSS SECTIONS

LEGEND

	PROPERTY LINE
XXX	EXISTING CONTOUR
XXX	PROPOSED CONTOUR
LOD	TOTAL AREA OF DISTURBANCE (12.67 AC)
	EXISTING WATERCOURSE
X.XX	PROPOSED SLOPE
95.0 TW / 92.0 BW	PROPOSED ELEVATION
	PROPOSED STORM DRAINAGE STRUCTURES
	PROPOSED STORM DRAINAGE PIPE
	INFILTRATION TEST PIT LOCATION

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

ELEVATION NOTE

1. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.

GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239LMM OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
4. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
5. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
6. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
No. 090061
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

INFILTRATION BASIN ENLARGED VIEW

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

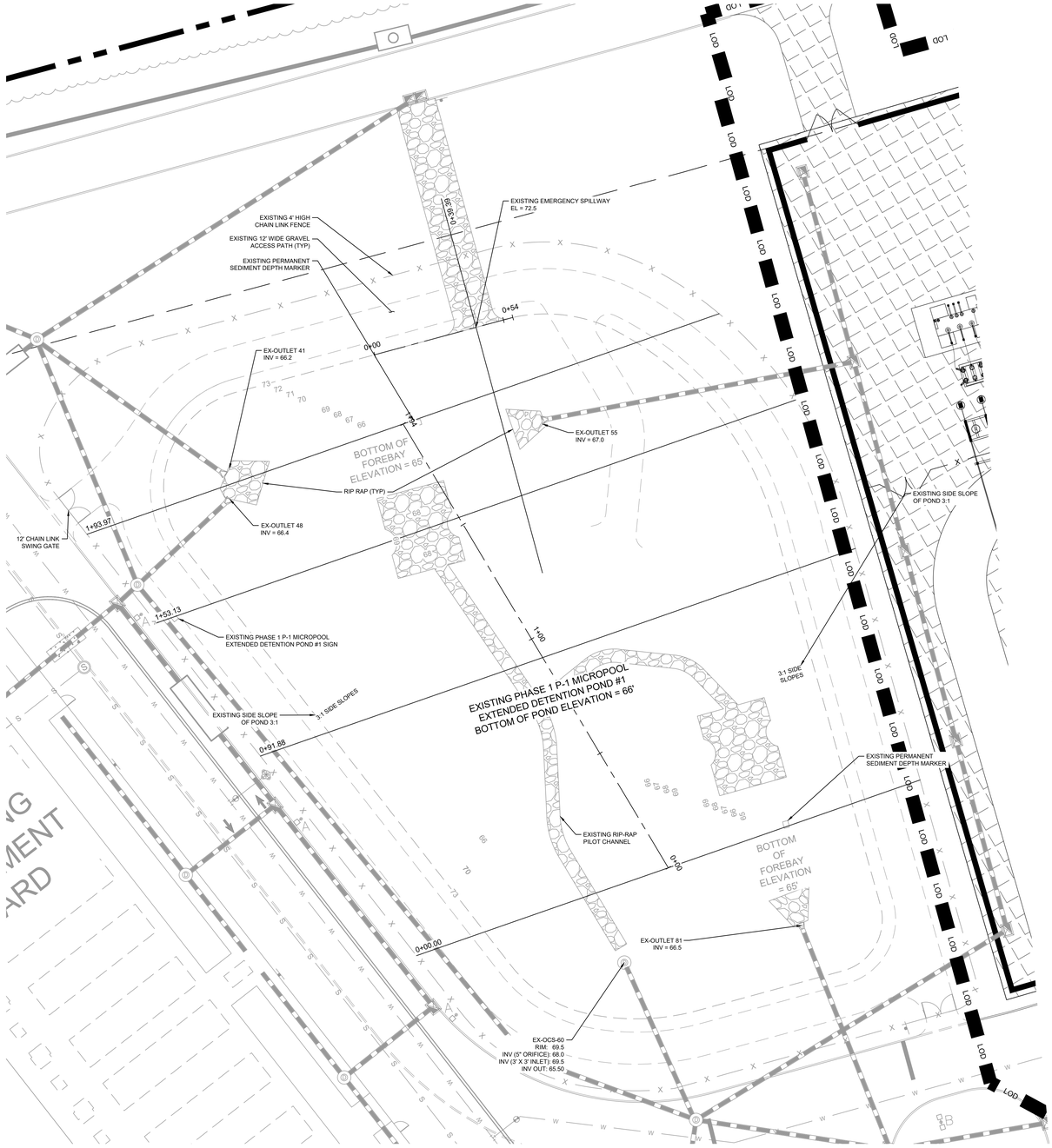
SHEET NUMBER
C-4.7

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-4.X EXISTING PHASE 1 DETENTION POND 1 ENLARGED VIEW.dwg

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Saved Tuesday, May 6, 2025 4:43:00 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:14:36 AM Sudeth, Trent



GRAPHIC SCALE IN FEET
0 10 20 40

ELEVATION NOTE

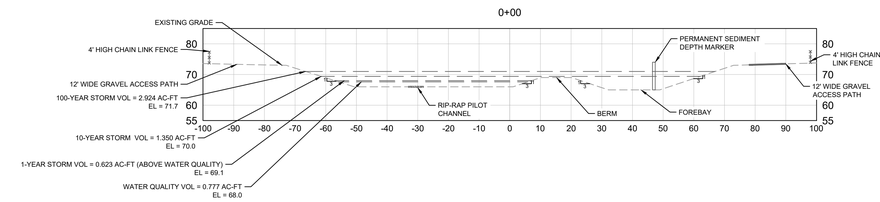
1. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.

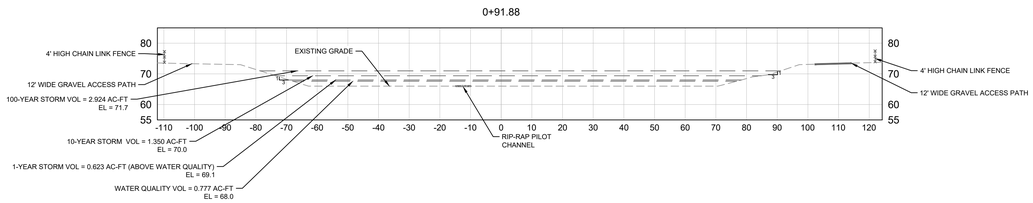
GENERAL NOTES

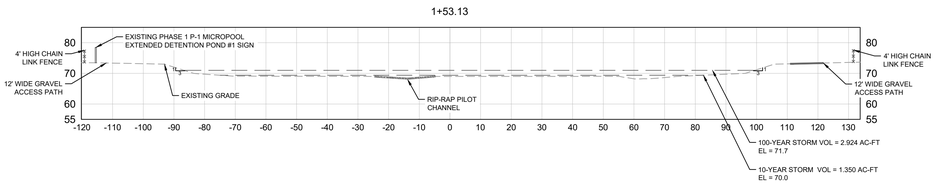
1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY." PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
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6. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

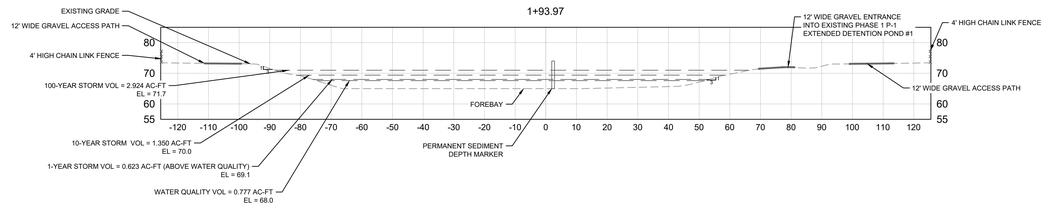
LEGEND

- PROPERTY LINE
- XXX — EXISTING CONTOUR
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- EXISTING STORM DRAINAGE STRUCTURES
- EXISTING STORM DRAINAGE PIPE

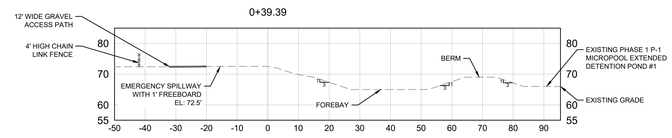








EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1 CROSS SECTIONS



EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1 EMERGENCY OUTFALL CROSS SECTION

GRAPHIC SCALE IN FEET
0 10 20 40
HORIZONTAL

0 10 20 40
VERTICAL

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

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1 NORTH LEXINGTON AVENUE, SUITE 505
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PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
No. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT 112578002
DATE 06/12/2024
SCALE: AS SHOWN
DESIGNED BY: TAS
DRAWN BY: KC
CHECKED BY: DL

EXISTING PHASE 1 DETENTION POND ENLARGED VIEW

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

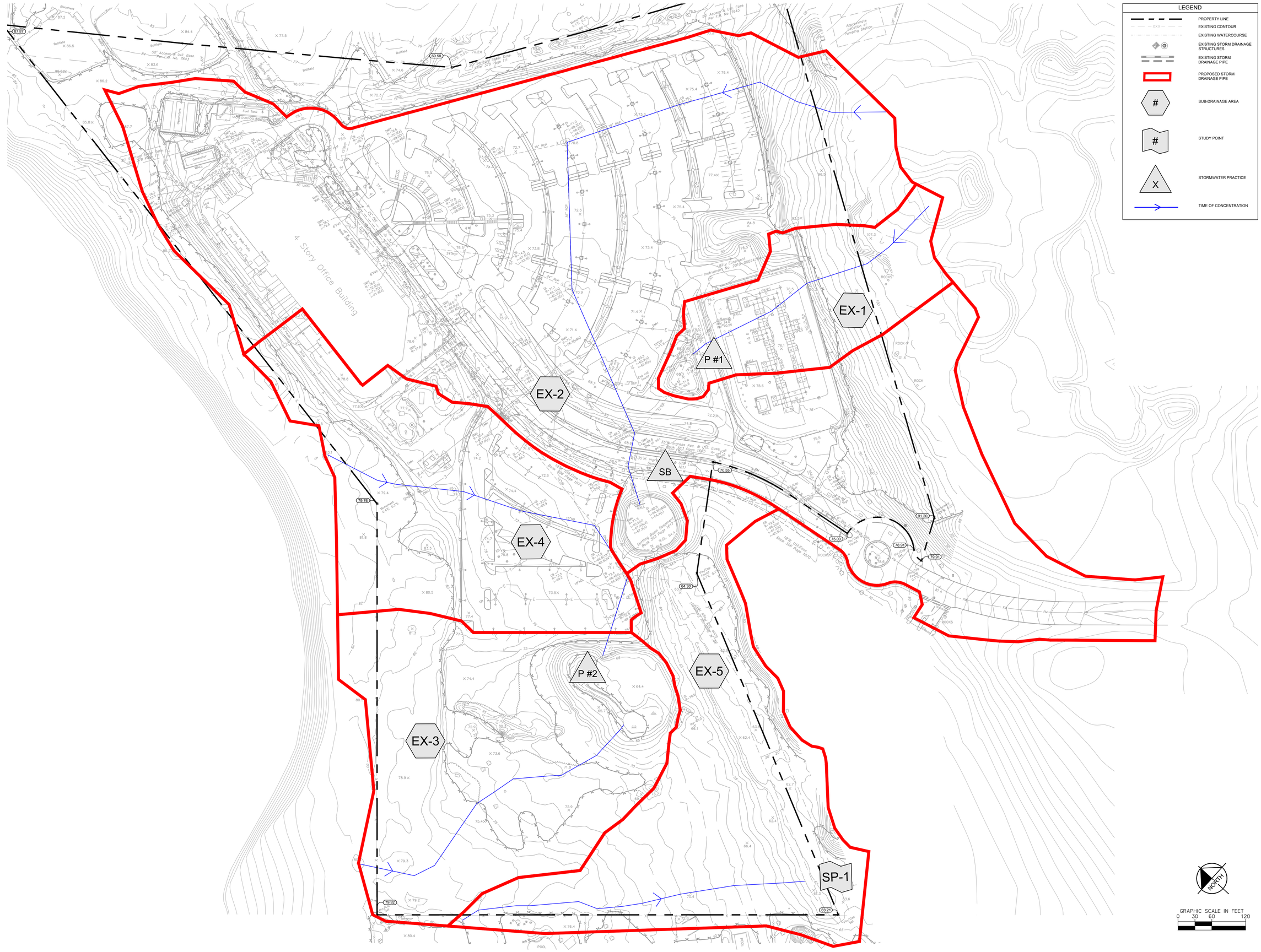
SHEET NUMBER
C-4.8

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Drainage\Existing Drainage Area Map_Phase 2.dwg

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Saved Monday, April 14, 2025 5:15:31 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:14:53 AM Suddeth, Trent



LEGEND

- PROPERTY LINE
- EXISTING CONTOUR
- EXISTING WATERCOURSE
- EXISTING STORM DRAINAGE STRUCTURES
- EXISTING STORM DRAINAGE PIPE
- PROPOSED STORM DRAINAGE PIPE
- # SUB-DRAINAGE AREA
- # STUDY POINT
- X STORMWATER PRACTICE
- TIME OF CONCENTRATION

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

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WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
No. 090051
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

EXISTING DRAINAGE AREA MAP

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-4.9

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Drainage\Proposed Drainage Area Map.dwg

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NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

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New York
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DANIEL LO FRISO
No. 099057
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

PROPOSED DRAINAGE AREA MAP

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

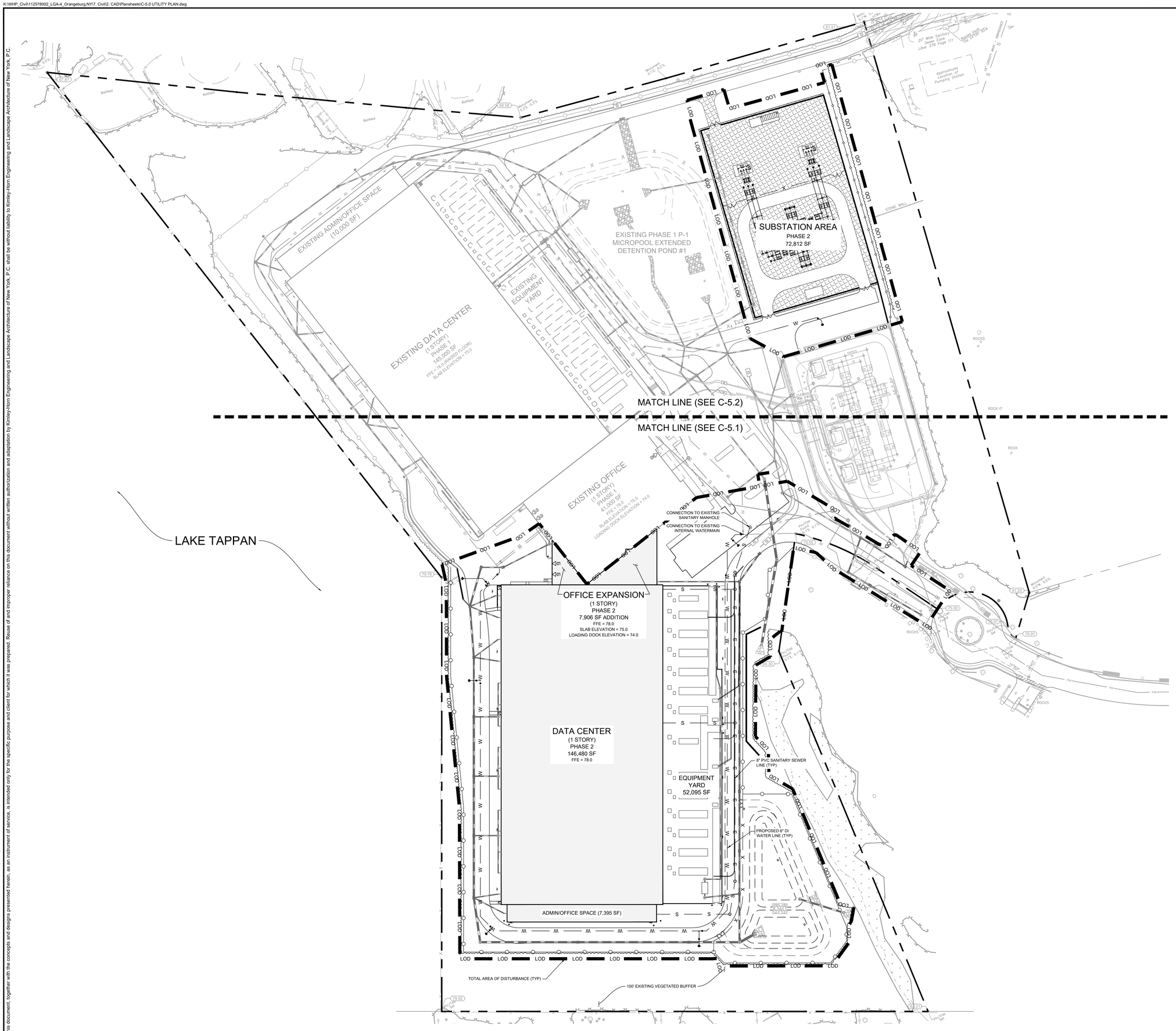
SHEET NUMBER
C-4.10

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Saved Thursday, May 8, 2025 2:24:26 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:15:33 AM Suddeth, Trent

K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-5.0 UTILITY PLAN.dwg



UTILITY PLAN LEGEND

	PROPERTY LINE
LOD	TOTAL AREA OF DISTURBANCE (12.67 AC)
	EXISTING WATERCOURSE
W	EXISTING WATER LINE
S	EXISTING GRAVITY SEWER LINE
FM	EXISTING FORCE MAIN LINE
G	EXISTING GAS LINE
	EXISTING ORU HIGH VOLTAGE POWER LINE
	EXISTING TELECOM LINE
	EXISTING ELECTRICAL LINE
W	PROPOSED WATER LINE
S	PROPOSED GRAVITY SEWER LINE
	PROPOSED VALVE, TEE, AND HYDRANT
	PROPOSED ELECTRICAL LINE

UTILITY NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEYING, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
4. UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE CIVIL ENGINEER AT THE TIME OF THE SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE APPLICANT, OWNER, OR THE CIVIL ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY.
5. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTION TO EXISTING UTILITIES, AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
6. ALL PROPOSED SANITARY INFRASTRUCTURE IS TO BE PRIVATE AND THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.
7. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
8. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
9. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
10. SANITARY SEWER INFILTRATION AND EXFILTRATION LIMIT IS 25 GALLONS PER INCH PER DIAMETER PER MILE PER DAY.
11. SANITARY SEWER PERMITS MUST BE OBTAINED FROM THE TOWN OF ORANGETOWN PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
12. IF THE LOWEST FLOOR IS TO BE SEWERED IS LOWER THAN THE UPSTREAM RIM ELEVATION OF THE SANITARY SEWER MANHOLE, AN INTERIOR CHECK VALVE MUST BE INSTALLED.
13. ALL MANHOLES MUST BE VACUUM TESTED AS REQUIRED BY THE TOWN OF ORANGETOWN.
14. CERTIFICATE OF OCCUPANCY SHALL NOT BE REQUESTED FROM THE TOWN OF ORANGETOWN BUILDING DEPARTMENT UNTIL RESULTS OF INFILTRATION AND EXFILTRATION TESTS FOR SANITARY SEWERS ARE CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND APPROVED BY THE DIRECTOR, DIVISION OF SEWERS.
15. CERTIFICATE OF OCCUPANCY MAY NOT BE REQUESTED, NOR ANY OCCUPANCY PERMITTED, UNTIL A CERTIFICATE OF COMPLIANCE, CERTIFIED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER, IS SUBMITTED TO AN APPROVED BY THE TOWN OF ORANGETOWN. COPIES OF THIS CERTIFICATE SHOULD ALSO BE SENT TO THE ROCKLAND COUNTY HEALTH DEPARTMENT.
16. ROCKLAND COUNTY DEPARTMENT OF HEALTH APPROVAL (RCDOH) IS LIMITED TO 5 YEARS FROM THE DATE OF RCDOH APPROVAL. TIME EXTENSIONS MAY BE GRANTED BY THE RCDOH BASED UPON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
17. AS-BUILT SANITARY SEWER AND WATER MAIN DRAWINGS (PLAN AND PROFILE) ARE TO BE SUBMITTED TO THE RCDOH FOR REVIEW AND ACCEPTANCE UPON COMPLETION OF THE INSTALLATION OF IMPROVEMENTS.

GRAPHIC SCALE IN FEET
0 30 60 120

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
No. 090051
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

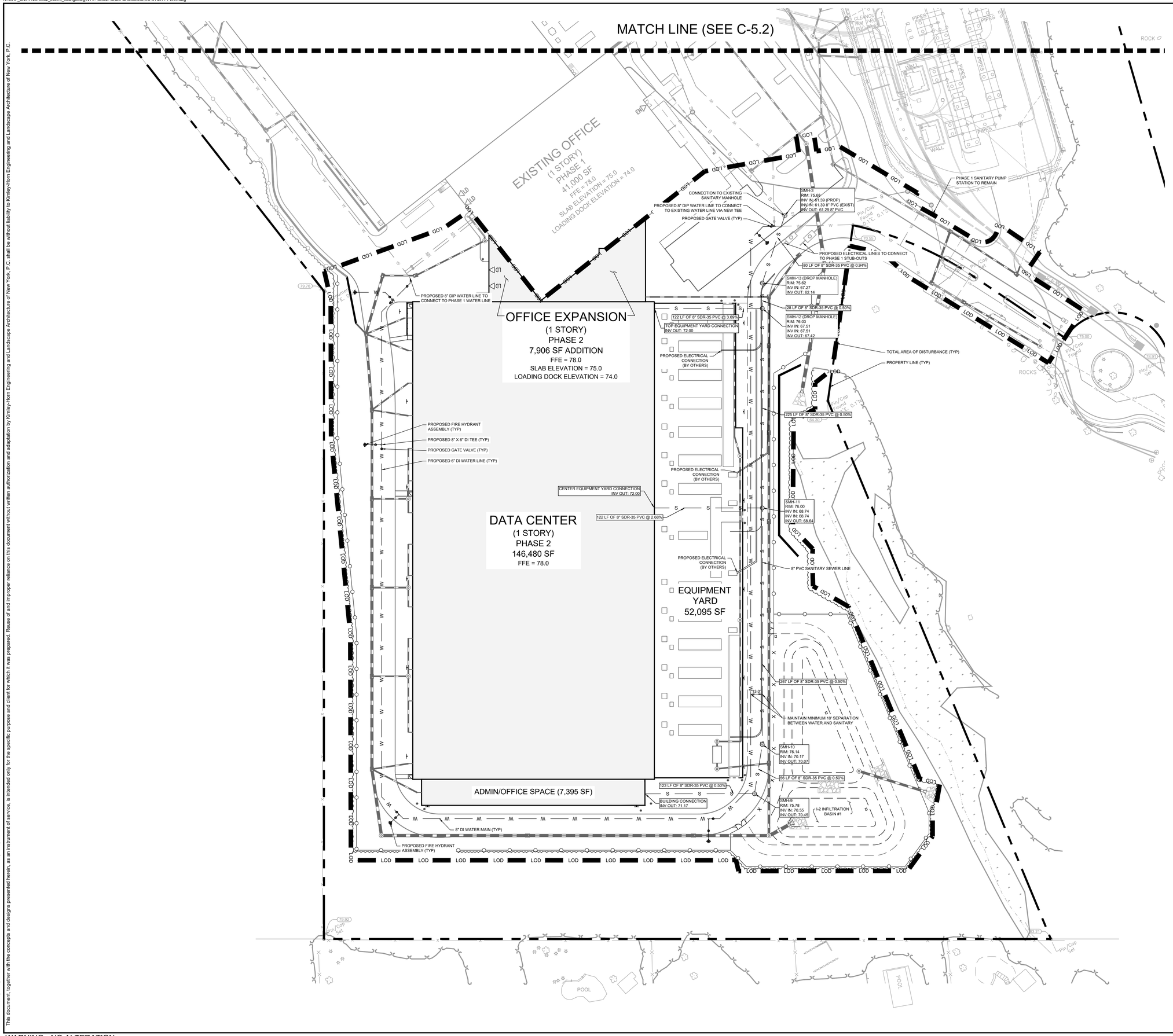
OVERALL UTILITY PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-5.0

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-5.0 UTILITY PLAN.dwg



UTILITY PLAN LEGEND

- PROPERTY LINE
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- W — EXISTING WATER LINE
- S — EXISTING GRAVITY SEWER LINE
- FM — EXISTING FORCE MAIN LINE
- G — EXISTING GAS LINE
- EXISTING ORU HIGH VOLTAGE POWER LINE
- EXISTING TELECOM LINE
- EXISTING ELECTRICAL LINE
- W — PROPOSED WATER LINE
- S — PROPOSED GRAVITY SEWER LINE
- PROPOSED VALVE, TEE, AND HYDRANT
- PROPOSED ELECTRICAL LINE

UTILITY NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
4. UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE CIVIL ENGINEER AT THE TIME OF THE SURVEY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE APPLICANT, OWNER, OR THE CIVIL ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ENTIRELY ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE COMMENCING ANY WORK IN THE VICINITY.
5. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND DETERMINE THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTION TO EXISTING UTILITIES, AND, SHALL CONFIRM THAT THERE ARE NO INTERFERENCES WITH EXISTING UTILITIES AND THE PROPOSED UTILITY ROUTES, INCLUDING ROUTES WITHIN THE PUBLIC RIGHTS OF WAY.
6. ALL PROPOSED SANITARY INFRASTRUCTURE IS TO BE PRIVATE AND THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER.
7. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
8. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
9. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
10. SANITARY SEWER INFILTRATION AND EXFILTRATION LIMIT IS 25 GALLONS PER INCH PER DIAMETER PER MILE PER DAY.
11. SANITARY SEWER PERMITS MUST BE OBTAINED FROM THE TOWN OF ORANGETOWN PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
12. IF THE LOWEST FLOOR IS TO BE SEWERED IS LOWER THAN THE UPSTREAM RIM ELEVATION OF THE SANITARY SEWER MANHOLE, AN INTERIOR CHECK VALVE MUST BE INSTALLED.
13. ALL MANHOLES MUST BE VACUUM TESTED AS REQUIRED BY THE TOWN OF ORANGETOWN.
14. CERTIFICATE OF OCCUPANCY SHALL NOT BE REQUESTED FROM THE TOWN OF ORANGETOWN BUILDING DEPARTMENT UNTIL RESULTS OF INFILTRATION AND EXFILTRATION TESTS FOR SANITARY SEWERS ARE CERTIFIED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND APPROVED BY THE DIRECTOR, DIVISION OF SEWERS.
15. CERTIFICATE OF OCCUPANCY MAY NOT BE REQUESTED, NOR ANY OCCUPANCY PERMITTED, UNTIL A CERTIFICATE OF COMPLIANCE, CERTIFIED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER, IS SUBMITTED TO AN APPROVED BY THE TOWN OF ORANGETOWN. COPIES OF THIS CERTIFICATE SHOULD ALSO BE SENT TO THE ROCKLAND COUNTY HEALTH DEPARTMENT.
16. ROCKLAND COUNTY DEPARTMENT OF HEALTH APPROVAL (RCDOH) IS LIMITED TO 5 YEARS FROM THE DATE OF RCDOH APPROVAL. TIME EXTENSIONS MAY BE GRANTED BY THE RCDOH BASED UPON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
17. AS-BUILT SANITARY SEWER AND WATER MAIN DRAWINGS (PLAN AND PROFILE) ARE TO BE SUBMITTED TO THE RCDOH FOR REVIEW AND ACCEPTANCE UPON COMPLETION OF THE INSTALLATION OF IMPROVEMENTS.

GRAPHIC SCALE IN FEET
0 20 40 80

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
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1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
LANDSCAPE ARCHITECTURE OF NEW YORK, P.C.
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WHITE PLAINS, NY 10601
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WWW.KIMLEY-HORN.COM
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DATABANK

STATE OF NEW YORK
CHANEL LO FRISBY
No. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
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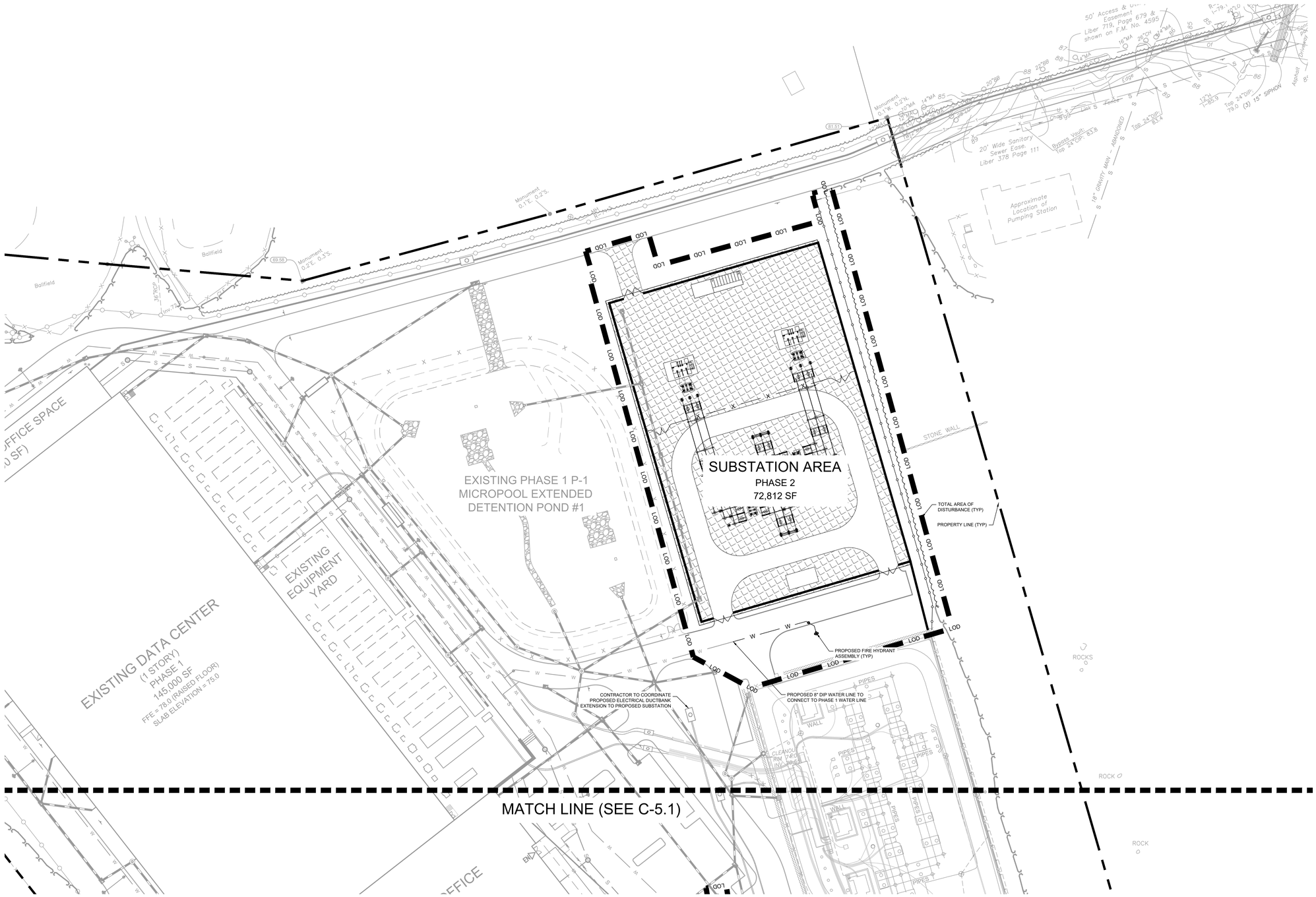
PARTIAL UTILITY PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-5.1

Saved Thursday, May 8, 2025 2:24:26 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:15:38 AM Suddath, Trent
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UTILITY PLAN LEGEND

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NORTH

GRAPHIC SCALE IN FEET
0 20 40 80

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New York
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DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
P.E. 093057
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

PARTIAL UTILITY PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-5.2

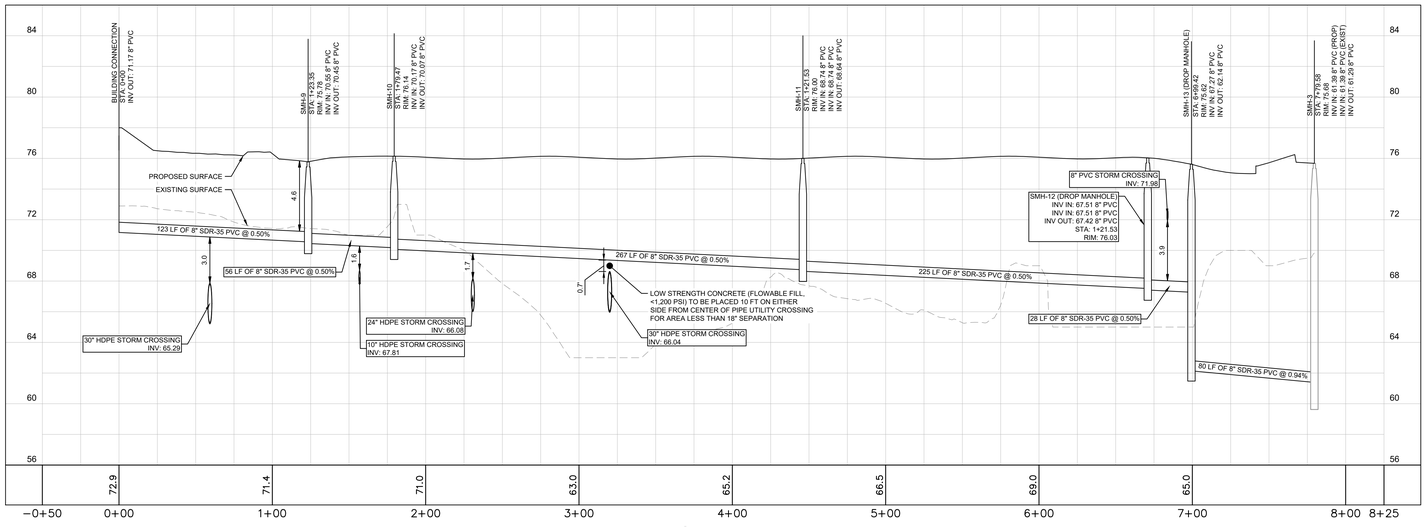
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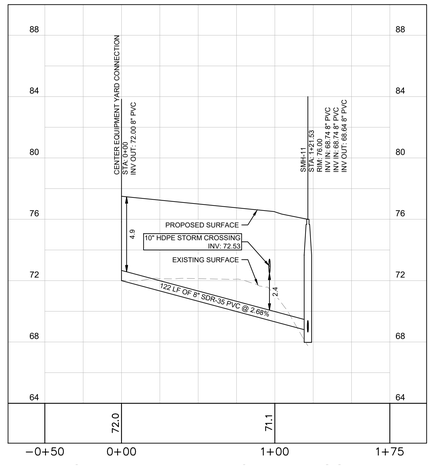
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Saved Tuesday, May 6, 2025 3:34:43 PM KITTY CHEN Plotted Thursday, May 15, 2025 8:15:57 AM Sudeth, Trent

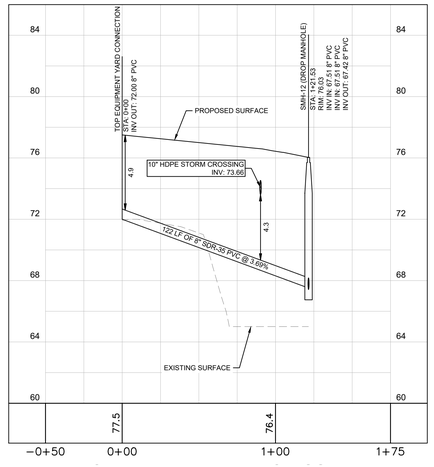
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SANITARY SEWER: PROFILE VIEW



SANITARY SEWER: CENTER EQUIPMENT YARD PROFILE VIEW



SANITARY SEWER: TOP EQUIPMENT YARD PROFILE VIEW

GRAPHIC SCALE IN FEET
0 20 40 80
HORIZONTAL

0 2 4 8
VERTICAL

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
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New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
LIC. 099067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT 112578002
DATE 06/12/2024
SCALE: AS SHOWN
DESIGNED BY: TAS
DRAWN BY: KC
CHECKED BY: DL

SANITARY SEWER PROFILES

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

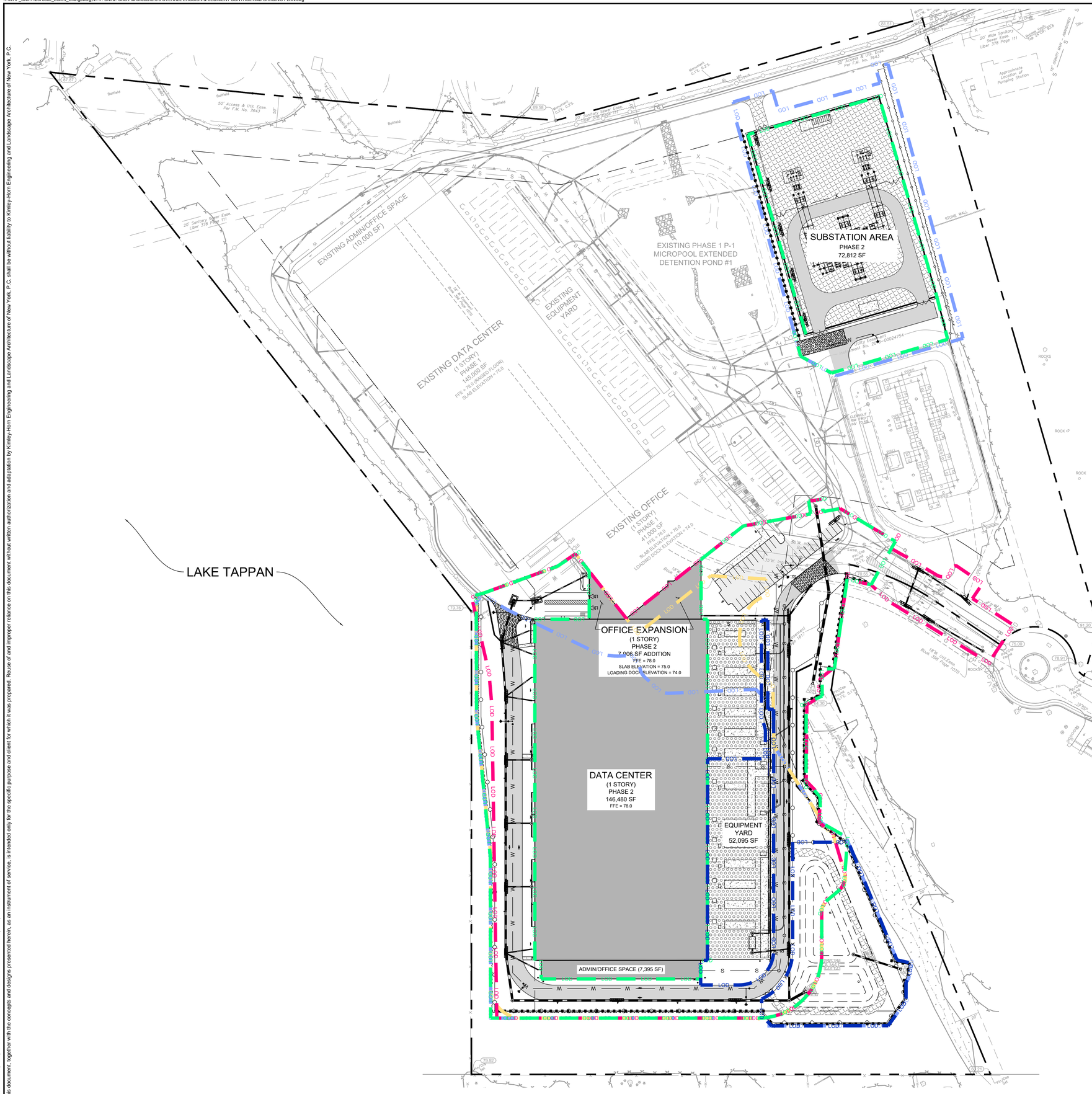
SHEET NUMBER
C-5.3

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-6.0 OVERALL EROSION & SEDIMENT CONTROL AND GRADING PLAN.dwg

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LEGEND

- PROPERTY LINE
- EXISTING WATERCOURSE
- LOD — STAGE 1 AREA OF DISTURBANCE (9.77 AC)
- LOD — STAGE 2 AREA OF DISTURBANCE (7.64 AC)
- LOD — STAGE 3 AREA OF DISTURBANCE (9.29 AC)
- LOD — STAGE 4 AREA OF DISTURBANCE (7.33 AC)
- LOD — STAGE 5 AREA OF DISTURBANCE (1.93 AC)
- SILT FENCE (SEE EROSION CONTROL DETAILS)
- TEMPORARY STAGING AREA
- INLET PROTECTION (SEE EROSION CONTROL DETAILS)
- STABILIZED CONSTRUCTION ENTRANCE (SEE EROSION CONTROL DETAILS)
- DEBRIS, WASTE, AND BORROW STOCKPILE AREA
- TEMPORARY STOCKPILE

GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
3. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
4. THE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS CERTIFIED BY A PROFESSIONAL ENGINEER FOR STORMWATER MANAGEMENT PRACTICES LOCATED ON SITE AFTER FINAL CONSTRUCTION IS COMPLETED.
5. A COPY OF THE SWPPP AND ALL INSPECTION REPORTS SHALL BE RETAINED AT THE SITE OF THE LAND DEVELOPMENT ACTIVITY DURING CONSTRUCTION FROM THE DATE OF INITIATION OF CONSTRUCTION ACTIVITIES TO FIVE YEARS AFTER THE DATE OF SUBMITTAL OF THE NOTICE OF TERMINATION (NOT) FORM TO NYSDEC.
6. THE CONTRACTOR MAY MODIFY THE CONSTRUCTION STAGING AS REQUIRED PER FIELD CONDITIONS AND SHALL PROVIDE ALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES. THE CONTRACTOR SHALL NOT DISTURB MORE THAN 10 ACRES AT ANY PARTICULAR TIME THROUGHOUT ALL CONSTRUCTION ACTIVITIES.
7. SHEETS C-6.0 THROUGH C-6.6 ARE IN COLOR AND ARE VALID ONLY WHEN PRINTED IN COLOR.
8. REFER TO SHEETS C-7.2 THROUGH C-7.2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
9. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
10. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
11. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

DISCLAIMER

THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

STAGE AREA OF DISTURBANCE

STAGE 1	9.77
STAGE 2	7.64
STAGE 3	9.29
STAGE 4	7.33
STAGE 5	1.93

NORTH

GRAPHIC SCALE IN FEET
0 30 60 120

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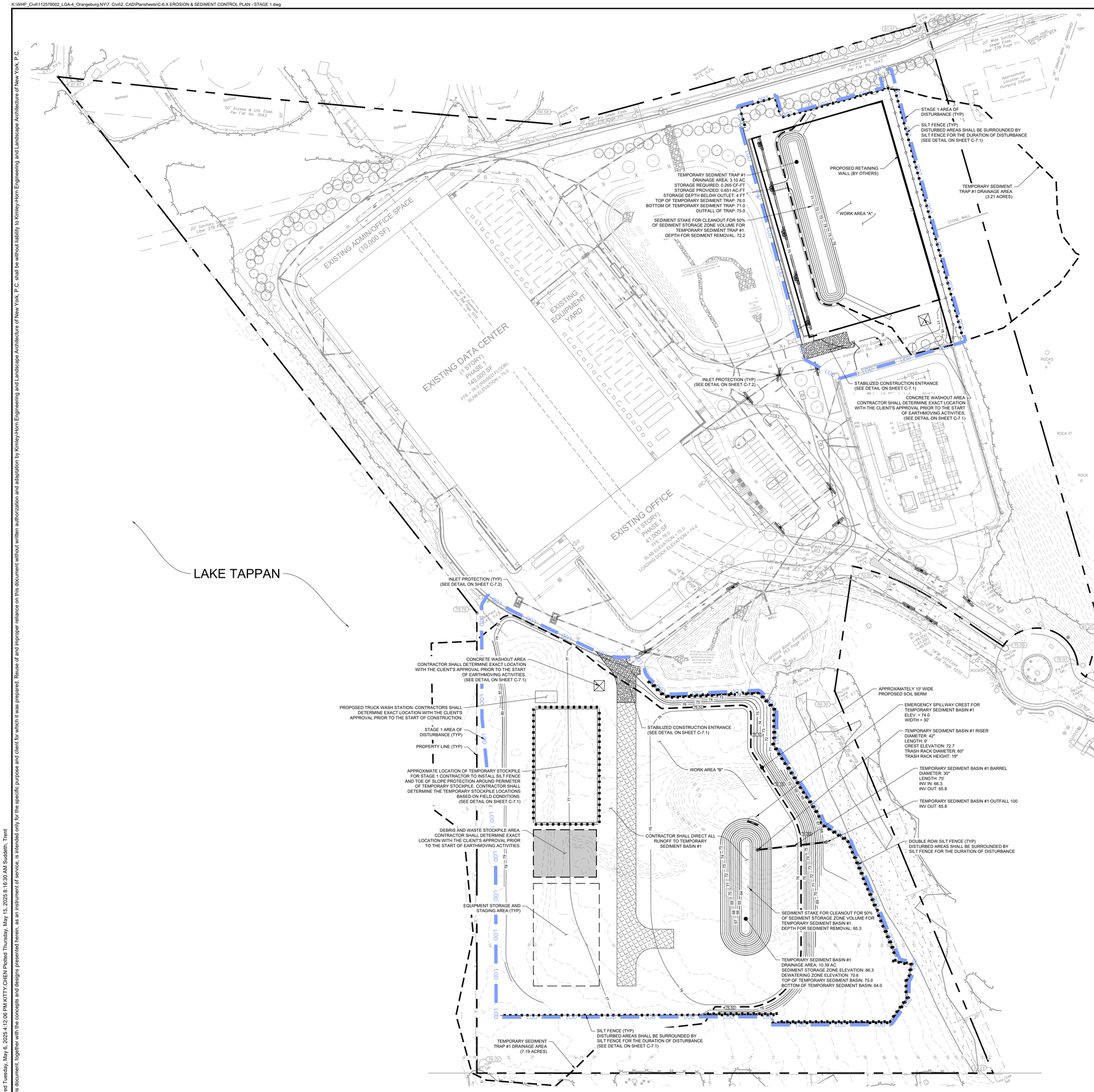
SHEET NUMBER
C-6.0

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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-6.X EROSION & SEDIMENT CONTROL PLAN - STAGE 1.dwg

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Saved Tuesday, May 6, 2025 4:12:06 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:16:30 AM Suddath, Trent



LEGEND

- PROPERTY LINE
- LOD — STAGE 1 AREA OF DISTURBANCE (9.77 AC)
- SILT FENCE (SEE DETAIL ON SHEET C-7.1)
- TEMPORARY STAGING AREA
- INLET PROTECTION (SEE DETAIL ON SHEET C-7.2)
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C-7.1)
- CONCRETE WASHOUT (SEE DETAIL ON SHEET C-7.1)
- DEBRIS, WASTE, AND BORROW STOCKPILE AREA
- TEMPORARY STOCKPILE
- GRAVEL
- TEMPORARY SEDIMENT BASIN
- RETAINING WALL
- EXISTING WATERCOURSE
- W — WATER LINE
- VALVE, TEE, AND HYDRANT
- DRAINAGE AREA BOUNDARY

GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
3. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
4. THE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS CERTIFIED BY A PROFESSIONAL ENGINEER FOR STORMWATER MANAGEMENT PRACTICES LOCATED ON SITE AFTER FINAL CONSTRUCTION IS COMPLETED.
5. A COPY OF THE SWPPP AND ALL INSPECTION REPORTS SHALL BE RETAINED AT THE SITE OF THE LAND DEVELOPMENT ACTIVITY DURING CONSTRUCTION FROM THE DATE OF INITIATION OF CONSTRUCTION ACTIVITIES TO FIVE YEARS AFTER THE DATE OF SUBMITTAL OF THE NOTICE OF TERMINATION (NOT) FORM TO NYSDEC.
6. THE CONTRACTOR MAY MODIFY THE CONSTRUCTION STAGING AS REQUIRED PER FIELD CONDITIONS AND SHALL PROVIDE ALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES. THE CONTRACTOR SHALL NOT DISTURB MORE THAN 10 ACRES AT ANY PARTICULAR TIME THROUGHOUT ALL CONSTRUCTION ACTIVITIES.
7. SHEETS C-6.0 THROUGH C-6.6 ARE IN COLOR AND ARE VALID ONLY WHEN PRINTED IN COLOR.
8. REFER TO SHEETS C-7.0 THROUGH C-7.2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
9. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
10. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
11. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

STAGE 1 CONSTRUCTION SEQUENCE

STAGE 1 - (9.77 AC)

1. MOBILIZATION.
2. INSTALL EROSION CONTROL MEASURES WITHIN AND AROUND LIMITS OF DISTURBANCE FOR STAGE 1: STABILIZED CONSTRUCTION ENTRANCES, TRUCK WASH STATION, SILT FENCE, INLET PROTECTION OF STORM STRUCTURES WITHIN AND AROUND LOD, STOCKPILE AREA, AND WASTE/BORROW AREAS.
3. EXCAVATION AND INSTALLATION OF TEMPORARY SEDIMENT BASIN #1 IN WORK AREA "B". STABILIZE WITH SEED, STRAW, AND OTHER STABILIZATION MEASURES.
4. INSTALL TEMPORARY SEDIMENT BASIN #1 OUTFALL 100 AND ASSOCIATED DRAINAGE PIPE.
5. EXCAVATION AND INSTALLATION OF TEMPORARY SEDIMENT TRAP #1 IN WORK AREA "A". STABILIZE WITH SEED, STRAW, AND OTHER STABILIZATION MEASURES.
6. TREE AND GRUB CLEARING WITHIN LIMITS OF DISTURBANCE IN WORK AREA "B".
7. CONSTRUCT TEMPORARY CONSTRUCTION ACCESS ROAD IN WORK AREA "B".
8. REMOVE EXISTING STORMWATER FACILITIES AS LISTED BELOW. REFER TO SHEET C-2.1 FOR LOCATION OF EXISTING FACILITIES TO BE REMOVED.
   - 8.1. PRE-PHASE 1 EX-OCS-2
   - 8.2. PRE-PHASE 1 EXISTING DETENTION BASIN #2 OUTLET
   - 8.3. 33 LF PIPE FROM PRE-PHASE1 EX-OCS-2 TO PRE-PHASE 1 EXISTING DETENTION BASIN #2 OUTLET
9. BACKFILL AND REMOVE EXISTING PRE-PHASE 1 EXISTING DETENTION BASIN #2
10. REMOVE REMAINING EXISTING UTILITIES AND STRUCTURES.
11. ROUGH GRADE WORK AREAS "A" AND "B" TO DIRECT RUNOFF TOWARDS TEMPORARY SEDIMENT BASIN #1 AND TEMPORARY SEDIMENT TRAP #1.
    - 11.1. CUT EARTH FROM WORK AREA "A" AND TRANSPORT TO WORK AREA "B". STOCKPILES SHALL HAVE TOE OF SLOPE PROTECTION UTILIZING SILT FENCE, SEDIMENT LOGS, AND/OR OTHER MEASURES NECESSARY AT THE CONTRACTOR'S DISCRETION.
12. CONSTRUCT SOIL BERM ALONG EAST LOT LINE IN WORK AREA "B" AS INDICATED. CONTRACTOR TO WORK FROM SOUTH TO NORTH WHILE TEMPORARILY STABILIZING THE BERM.
13. REMOVE EXISTING CURB, RETAINING WALL AND FENCE ALONG EAST SIDE OF WORK AREA "A".
14. CONSTRUCT PROPOSED RETAINING WALL IN WORK AREA "A".
15. BRING WORK AREA "A" TO PROPOSED FINAL GRADE AND INSTALL GRAVEL TO STABILIZE.
16. CONSTRUCT PROPOSED WATER UTILITIES AND SUBSTATION ACCESS ROAD WITHIN WORK AREA "A".
17. BACKFILL AND REMOVE TEMPORARY SEDIMENT TRAP #1. INSTALL GRAVEL TO STABILIZE AREA.
18. STABILIZE STAGE 1 IN AREAS NOT TO BE DISTURBED IN STAGE 2. THE CONTRACTOR SHALL UTILIZE SEEDING, STRAW, EROSION CONTROL BLANKETS, AND/OR OTHER MEASURES AS NEEDED TO STABILIZE DISTURBED AREAS.
19. COLLECT SILT AND SEDIMENT AND REMOVE FROM SITE. REMOVE SILT AND SEDIMENT FROM TEMPORARY SEDIMENT BASIN #1. REBUILD/REINFORCE ANY SECTION OF THE BASIN THAT MAY SHOW SIGNS OF EROSION DURING LARGER STORMS.
20. ESTIMATE TIME OF CONSTRUCTION (STAGE 1): 2 MONTHS

DISCLAIMER

THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK — DANIEL LO PRESTI — LICENSED PROFESSIONAL ENGINEER — NO. 090067
05/15/2025

KHA PROJECT 112578002
DATE 06/12/2024
SCALE: AS SHOWN
DESIGNED BY: TAS
DRAWN BY: KC
CHECKED BY: DL

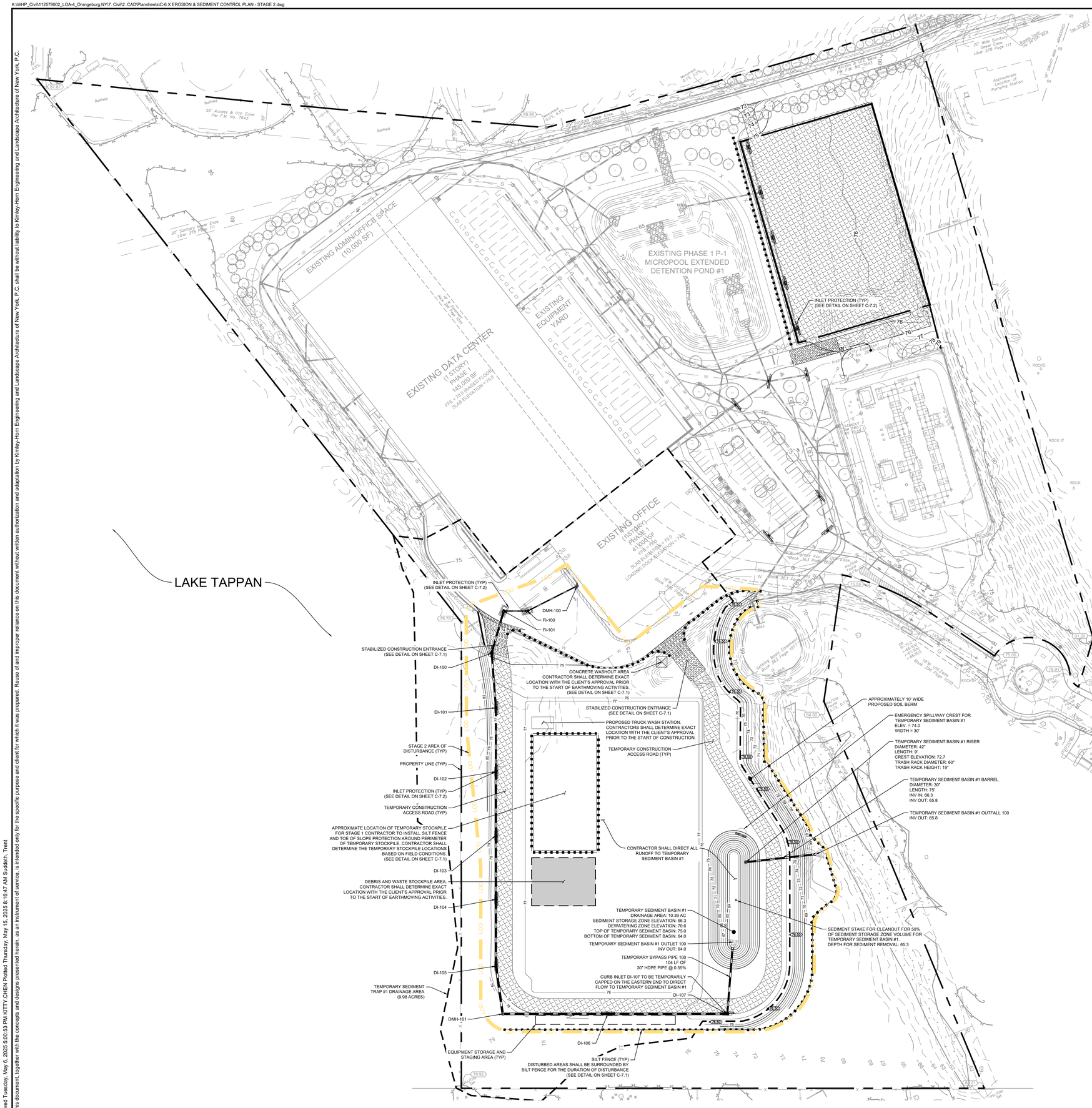
EROSION & SEDIMENT CONTROL PLAN - STAGE 1

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-6.1

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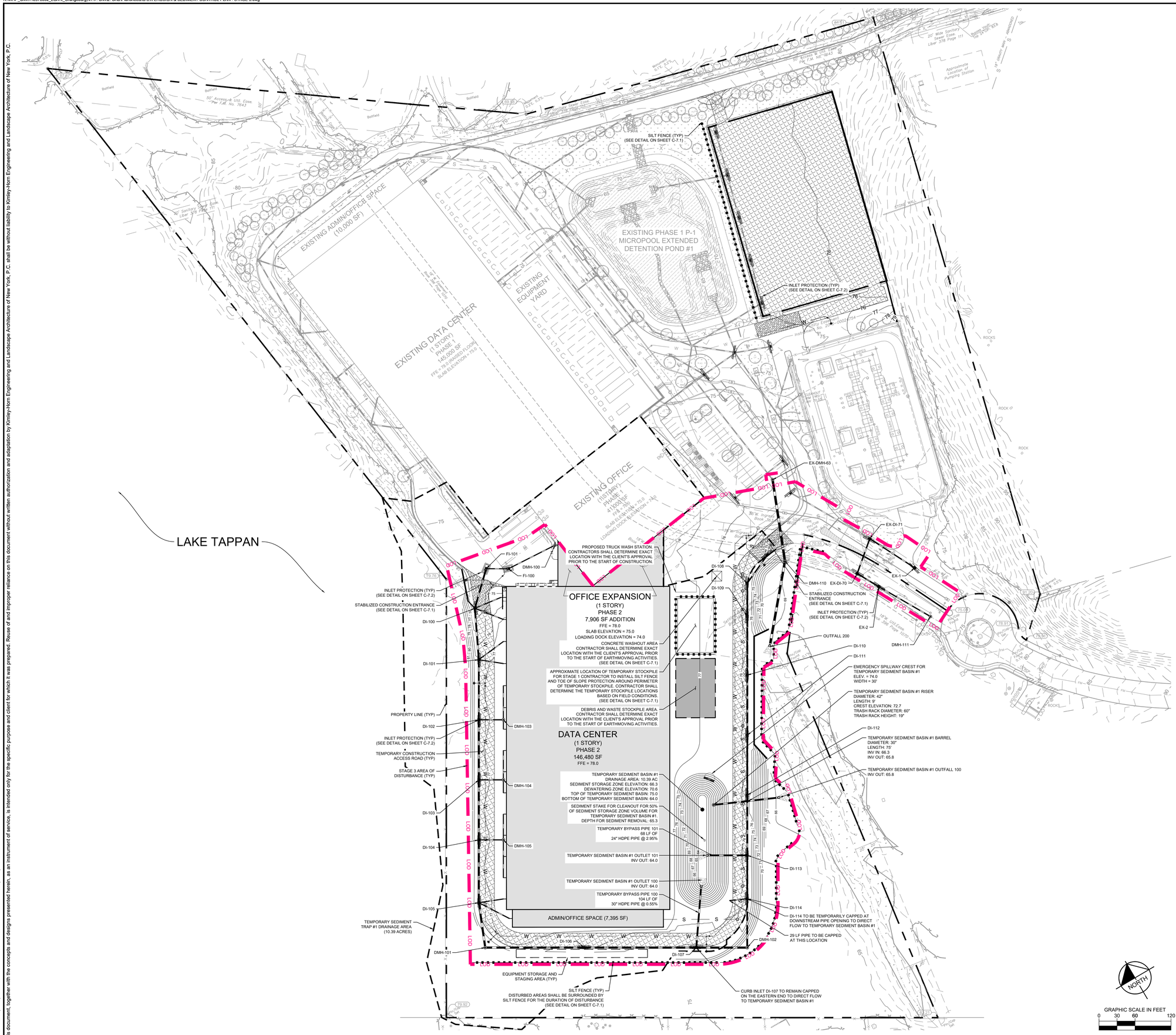
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LAKE TAPPAN
EXISTING DATA CENTER
(1 STORY)
PHASE 1
145,000 SF
FFE = 78.0 (RAISED FLOOR)
SLAB ELEVATION = 76.0
EXISTING ADMIN/OFFICE SPACE
(10,000 SF)
EXISTING EQUIPMENT YARD
EXISTING PHASE 1 P-1
MICROPOOL EXTENDED
DETENTION POND #1
EXISTING OFFICE
(1 STORY)
PHASE 1
41,000 SF
FFE = 80.0
SLAB ELEVATION = 78.0
LOADING DOCK ELEVATION = 78.0
INLET PROTECTION (TYP)
(SEE DETAIL ON SHEET C-7.2)
STABILIZED CONSTRUCTION ENTRANCE
(SEE DETAIL ON SHEET C-7.1)
CONCRETE WASHOUT AREA
CONTRACTOR SHALL DETERMINE EXACT
LOCATION WITH THE CLIENT'S APPROVAL PRIOR
TO THE START OF EARTHMOVING ACTIVITIES.
(SEE DETAIL ON SHEET C-7.1)
PROPOSED TRUCK WASH STATION.
CONTRACTORS SHALL DETERMINE EXACT
LOCATION WITH THE CLIENT'S APPROVAL
PRIOR TO THE START OF CONSTRUCTION.
TEMPORARY CONSTRUCTION
ACCESS ROAD (TYP)
CONTRACTOR SHALL DIRECT ALL
RUNOFF TO TEMPORARY
SEDIMENT BASIN #1
APPROXIMATELY 10' WIDE
PROPOSED SOIL BERM
EMERGENCY SPILLWAY CREST FOR
TEMPORARY SEDIMENT BASIN #1
ELEV. = 74.0
WIDTH = 30'
TEMPORARY SEDIMENT BASIN #1 RISER
DIAMETER: 42"
LENGTH: 9'
CREST ELEVATION: 72.7
TRASH RACK DIAMETER: 60"
TRASH RACK HEIGHT: 19'
TEMPORARY SEDIMENT BASIN #1 BARREL
DIAMETER: 30"
LENGTH: 75'
INV IN: 66.3
INV OUT: 65.8
TEMPORARY SEDIMENT BASIN #1 OUTFALL 100
INV OUT: 65.8
TEMPORARY SEDIMENT BASIN #1
DRAINAGE AREA: 10.39 AC
SEDIMENT STORAGE ZONE ELEVATION: 66.3
DEWATERING ZONE ELEVATION: 70.6
TOP OF TEMPORARY SEDIMENT BASIN: 75.0
BOTTOM OF TEMPORARY SEDIMENT BASIN: 64.0
TEMPORARY SEDIMENT BASIN #1 OUTLET 100
INV OUT: 64.0
TEMPORARY BYPASS PIPE 100
104 LF OF
30" HDPE PIPE @ 0.55%
CURB INLET DI-107 TO BE TEMPORARILY
CAPPED ON THE EASTERN END TO DIRECT
FLOW TO TEMPORARY SEDIMENT BASIN #1
SEDIMENT STAKE FOR CLEANOUT FOR 50%
OF SEDIMENT STORAGE ZONE VOLUME FOR
TEMPORARY SEDIMENT BASIN #1.
DEPTH FOR SEDIMENT REMOVAL: 65.3
STAGE 2 AREA OF
DISTURBANCE (TYP)
PROPERTY LINE (TYP)
INLET PROTECTION
(SEE DETAIL ON SHEET C-7.2)
TEMPORARY CONSTRUCTION
ACCESS ROAD (TYP)
APPROXIMATE LOCATION OF TEMPORARY STOCKPILE
FOR STAGE 1 CONTRACTOR TO INSTALL SILT FENCE
AND TOE OF SLOPE PROTECTION AROUND PERIMETER
OF TEMPORARY STOCKPILE. CONTRACTOR SHALL
DETERMINE THE TEMPORARY STOCKPILE LOCATIONS
BASED ON FIELD CONDITIONS.
(SEE DETAIL ON SHEET C-7.1)
DEBRIS AND WASTE STOCKPILE AREA
CONTRACTOR SHALL DETERMINE EXACT
LOCATION WITH THE CLIENT'S APPROVAL PRIOR
TO THE START OF EARTHMOVING ACTIVITIES
TEMPORARY SEDIMENT
TRAP #1 DRAINAGE AREA
(9.98 ACRES)
EQUIPMENT STORAGE AND
STAGING AREA (TYP)
SILT FENCE (TYP)
DISTURBED AREAS SHALL BE SURROUNDED BY
SILT FENCE FOR THE DURATION OF DISTURBANCE
(SEE DETAIL ON SHEET C-7.1)
DMH-100
FI-100
FI-101
DI-100
DI-101
DI-102
DI-103
DI-104
DI-105
DMH-101
DI-106
DI-107
20' Wide Sanitary Sewer Esmt. Liber 378 Page 111
50' Access & Util. Esmt. Per F.M. No. 7643
Approximate Location of Pumping Station
Existing Water Easement Liber 1617 Page 1
Existing Water Easement Liber 1617 Page 1
Existing Water Easement Liber 1617 Page 1

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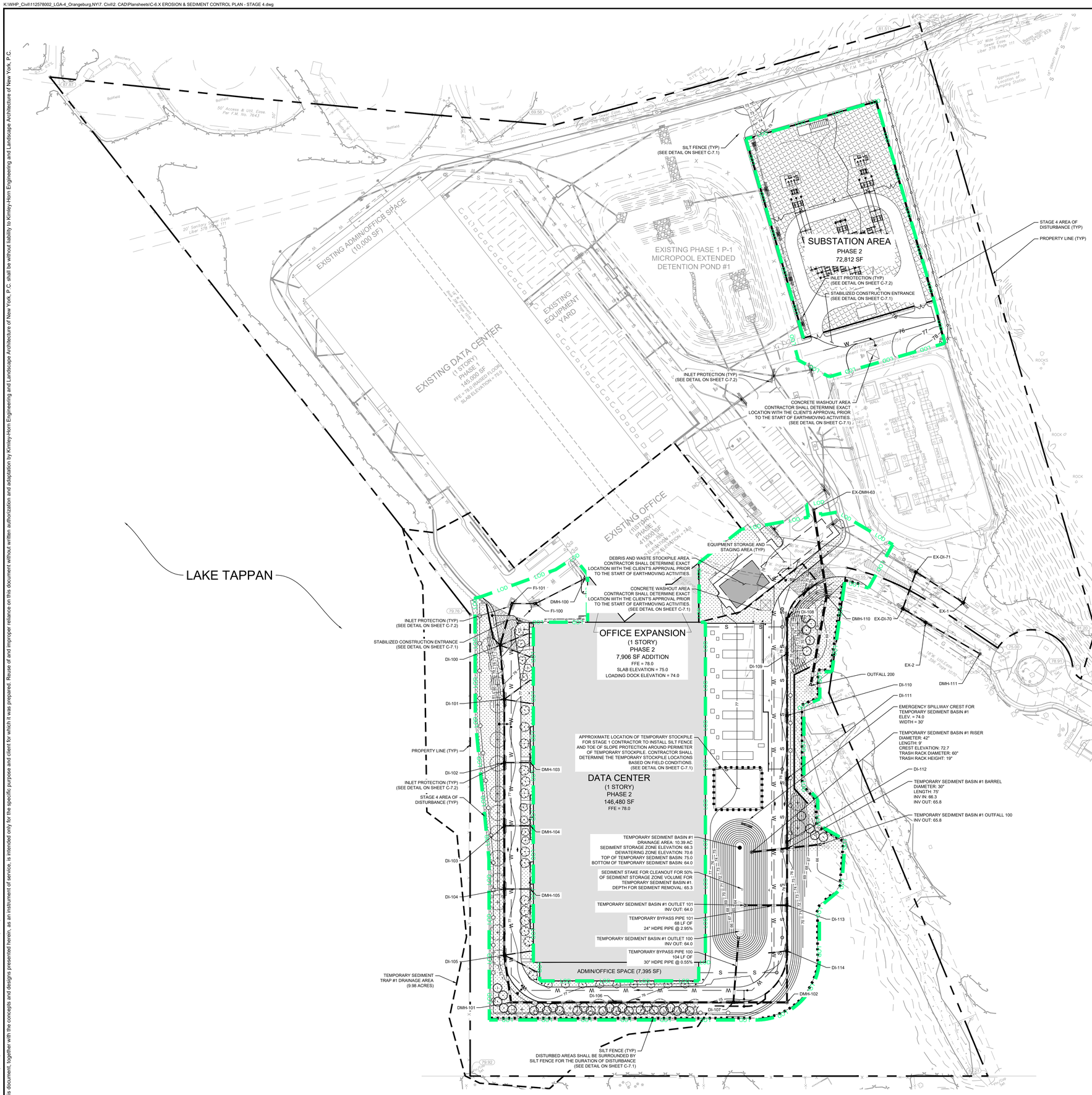
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LAKE TAPPAN
EXISTING ADMIN/OFFICE SPACE (10,000 SF)
EXISTING DATA CENTER (1 STORY) PHASE 1 145,000 SF FFE = TBD (MAIN FLOOR) SLAB ELEVATION = 75.0
EXISTING EQUIPMENT YARD
EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1
EXISTING OFFICE (1 STORY) PHASE 1 41,000 SF FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0
OFFICE EXPANSION (1 STORY) PHASE 2 7,906 SF ADDITION FFE = 78.0 SLAB ELEVATION = 75.0 LOADING DOCK ELEVATION = 74.0
DATA CENTER (1 STORY) PHASE 2 146,480 SF FFE = 78.0
ADMIN/OFFICE SPACE (7,395 SF)
SILT FENCE (TYP) (SEE DETAIL ON SHEET C-7.1)
INLET PROTECTION (TYP) (SEE DETAIL ON SHEET C-7.2)
PROPOSED TRUCK WASH STATION. CONTRACTORS SHALL DETERMINE EXACT LOCATION WITH THE CLIENT'S APPROVAL PRIOR TO THE START OF CONSTRUCTION.
STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C-7.1)
CONCRETE WASHOUT AREA CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CLIENT'S APPROVAL PRIOR TO THE START OF EARTHMOVING ACTIVITIES. (SEE DETAIL ON SHEET C-7.1)
APPROXIMATE LOCATION OF TEMPORARY STOCKPILE FOR STAGE 1 CONTRACTOR TO INSTALL SILT FENCE AND TOE OF SLOPE PROTECTION AROUND PERIMETER OF TEMPORARY STOCKPILE. CONTRACTOR SHALL DETERMINE THE TEMPORARY STOCKPILE LOCATIONS BASED ON FIELD CONDITIONS. (SEE DETAIL ON SHEET C-7.1)
DEBRIS AND WASTE STOCKPILE AREA. CONTRACTOR SHALL DETERMINE EXACT LOCATION WITH THE CLIENT'S APPROVAL PRIOR TO THE START OF EARTHMOVING ACTIVITIES.
TEMPORARY SEDIMENT BASIN #1 DRAINAGE AREA: 10.39 AC SEDIMENT STORAGE ZONE ELEVATION: 66.3 DEWATERING ZONE ELEVATION: 70.6 TOP OF TEMPORARY SEDIMENT BASIN: 75.0 BOTTOM OF TEMPORARY SEDIMENT BASIN: 64.0
SEDIMENT STAKE FOR CLEANOUT FOR 50% OF SEDIMENT STORAGE ZONE VOLUME FOR TEMPORARY SEDIMENT BASIN #1. DEPTH FOR SEDIMENT REMOVAL: 65.3
TEMPORARY BYPASS PIPE 101 68 LF OF 24" HDPE PIPE @ 2.95%
TEMPORARY SEDIMENT BASIN #1 OUTLET 101 INV OUT: 64.0
TEMPORARY SEDIMENT BASIN #1 OUTLET 100 INV OUT: 64.0
TEMPORARY BYPASS PIPE 100 104 LF OF 30" HDPE PIPE @ 0.55%
TEMPORARY SEDIMENT TRAP #1 DRAINAGE AREA (10.39 ACRES)
EQUIPMENT STORAGE AND STAGING AREA (TYP)
DISTURBED AREAS SHALL BE SURROUNDED BY SILT FENCE FOR THE DURATION OF DISTURBANCE (SEE DETAIL ON SHEET C-7.1)
CURB INLET DI-107 TO REMAIN CAPPED ON THE EASTERN END TO DIRECT FLOW TO TEMPORARY SEDIMENT BASIN #1
DI-114 TO BE TEMPORARILY CAPPED AT DOWNSTREAM PIPE OPENING TO DIRECT FLOW TO TEMPORARY SEDIMENT BASIN #1
29 LF PIPE TO BE CAPPED AT THIS LOCATION
OUTFALL 200
EMERGENCY SPILLWAY CREST FOR TEMPORARY SEDIMENT BASIN #1 ELEV. = 74.0 WIDTH = 30'
TEMPORARY SEDIMENT BASIN #1 RISER DIAMETER: 42" LENGTH: 0' CREST ELEVATION: 72.7 TRASH RACK DIAMETER: 60" TRASH RACK HEIGHT: 19'
TEMPORARY SEDIMENT BASIN #1 BARREL DIAMETER: 30" LENGTH: 75' INV IN: 66.3 INV OUT: 65.8
TEMPORARY SEDIMENT BASIN #1 OUTFALL 100 INV OUT: 65.8
EX-DMH-63
EX-DI-71
EX-1
EX-2
DMH-110
EX-DI-70
DMH-111
DI-108
DI-109
DI-110
DI-111
DI-112
DI-113
DI-114
DMH-102
DMH-103
DMH-104
DMH-105
DMH-100
DMH-101
FI-101
FI-100
DI-100
DI-101
DI-102
DI-103
DI-104
DI-105
DI-106
DI-107
STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C-7.1)
INLET PROTECTION (TYP) (SEE DETAIL ON SHEET C-7.2)
PROPERTY LINE (TYP)
TEMPORARY CONSTRUCTION ACCESS ROAD (TYP)
STAGE 3 AREA OF DISTURBANCE (TYP)
LOD
20' Wide Sanitary Sewer Esmt. Liber 378 Page 111
50' Access & Util. Esmt. Per F.M. No. 7643
Approximate Location of Pumping Station
Bleachers
Bottled
Bottled Gas
Bottled Gas Fence
Bottled Gas Line
Bottled Gas Pad
Bottled Gas Tank
Bottled Gas Valve
Bottled Gas Vent
Bottled Gas Vent Pipe
Bottled Gas Vent Pipe Fence
Bottled Gas Vent Pipe Line
Bottled Gas Vent Pipe Pad
Bottled Gas Vent Pipe Tank
Bottled Gas Vent Pipe Valve
Bottled Gas Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Line
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Pad
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Tank
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Valve
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe
Bottled Gas Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Vent Pipe Fence
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Saved Tuesday, May 6, 2025 5:03:33 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:17:37 AM Suddath, Trent



LEGEND

- PROPERTY LINE
- LOD — STAGE 4 AREA OF DISTURBANCE (7.33 AC)
- SILT FENCE (SEE DETAIL ON SHEET C-7.1)
- TEMPORARY STAGING AREA
- INLET PROTECTION (SEE DETAIL ON SHEET C-7.2)
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C-7.1)
- CONCRETE WASHOUT (SEE DETAIL ON SHEET C-7.1)
- DEBRIS, WASTE, AND BORROW STOCKPILE AREA
- TEMPORARY STOCKPILE (SEE DETAIL ON SHEET C-7.1)
- GRAVEL
- RIP RAP MATTING
- TEMPORARY SEDIMENT BASIN
- STORM DRAINAGE PIPE
- STORM DRAINAGE STRUCTURES
- S — GRAVITY SANITARY PIPE
- SANITARY MANHOLE
- W — WATER LINE
- VALVE, TEE, AND HYDRANT
- EXISTING WATERCOURSE
- DRAINAGE AREA BOUNDARY

GENERAL NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
3. THE CONTRACTOR SHALL NOTIFY THE TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
4. THE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS CERTIFIED BY A PROFESSIONAL ENGINEER FOR STORMWATER MANAGEMENT PRACTICES LOCATED ON SITE AFTER FINAL CONSTRUCTION IS COMPLETED.
5. A COPY OF THE SWPPP AND ALL INSPECTION REPORTS SHALL BE RETAINED AT THE SITE OF THE LAND DEVELOPMENT ACTIVITY DURING CONSTRUCTION FROM THE DATE OF INITIATION OF CONSTRUCTION ACTIVITIES TO FIVE YEARS AFTER THE DATE OF SUBMITTAL OF THE NOTICE OF TERMINATION (NOT) FORM TO NYSDEC.
6. THE CONTRACTOR MAY MODIFY THE CONSTRUCTION STAGING AS REQUIRED PER FIELD CONDITIONS AND SHALL PROVIDE ALL NECESSARY EROSION AND SEDIMENTATION CONTROL PRACTICES. THE CONTRACTOR SHALL NOT DISTURB MORE THAN 10 ACRES AT ANY PARTICULAR TIME THROUGHOUT ALL CONSTRUCTION ACTIVITIES.
7. SHEETS C-6.0 THROUGH C-6.6 ARE IN COLOR AND ARE VALID ONLY WHEN PRINTED IN COLOR.
8. REFER TO SHEETS C-7.0 THROUGH C-7.2 FOR EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
9. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
10. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
11. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

STAGE 4 CONSTRUCTION SEQUENCE

STAGE 4 - (7.33 AC)

1. MOBILIZATION.
2. INSTALL EROSION CONTROL MEASURES WITHIN AND AROUND LIMITS OF DISTURBANCE FOR STAGE 4: STABILIZED CONSTRUCTION ENTRANCES, CONCRETE WASHOUT, SILT FENCE, INLET PROTECTION OF STORM STRUCTURES WITHIN AND AROUND LOD, WASTE/BORROW AREAS.
3. CONSTRUCT NORTHERN AND CENTRAL SANITARY BUILDING CONNECTIONS ARE INDICATED ON THIS PLAN.
4. CONSTRUCT NORTHERN PORTION OF EQUIPMENT YARD AS INDICATED ON THIS PLAN.
5. REMOVE GRAVEL PAD IN SUBSTATION AREA AND CONSTRUCT SUBSTATION PAD.
   - 5.1. PROPOSED SUBSTATION DESIGN AND INSTALLATION TO BE FILED UNDER SEPARATE APPLICATION.
6. CONSTRUCT PROPOSED CURB FOR THE ENTIRE SITE.
7. CONSTRUCT FINAL PAVEMENT FOR THE ENTIRE SITE.
8. INSTALL TREES, SHRUBS, AND ALL LARGE LANDSCAPE ELEMENTS SPECIFIED AND FINAL SEED AND SOD FOR FULL LOD OF THIS STAGE.
9. STABILIZE STAGE 4 IN AREAS NOT TO BE DISTURBED IN STAGE 5. THE CONTRACTOR SHALL UTILIZE SEEDING, STRAW, EROSION CONTROL BLANKETS, AND/OR OTHER MEASURES AS NEEDED TO STABILIZE DISTURBED AREAS.
10. COLLECT SILT AND SEDIMENT AND REMOVE FROM SITE. REMOVE SILT AND SEDIMENT FROM TEMPORARY SEDIMENT BASIN #1. REBUILD/REINFORCE ANY SECTIONS OF THE BASINS THAT MAY SHOW SIGNS OF EROSION DURING LARGER STORMS.
11. ESTIMATED TIME OF CONSTRUCTION (STAGE 4): 3 MONTHS

DISCLAIMER

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GRAPHIC SCALE IN FEET
0 30 60 120

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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New York
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DATABANK

STATE OF NEW YORK — DANIEL LO FRISO — No. 090067 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

EROSION & SEDIMENT CONTROL PLAN - STAGE 4

DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

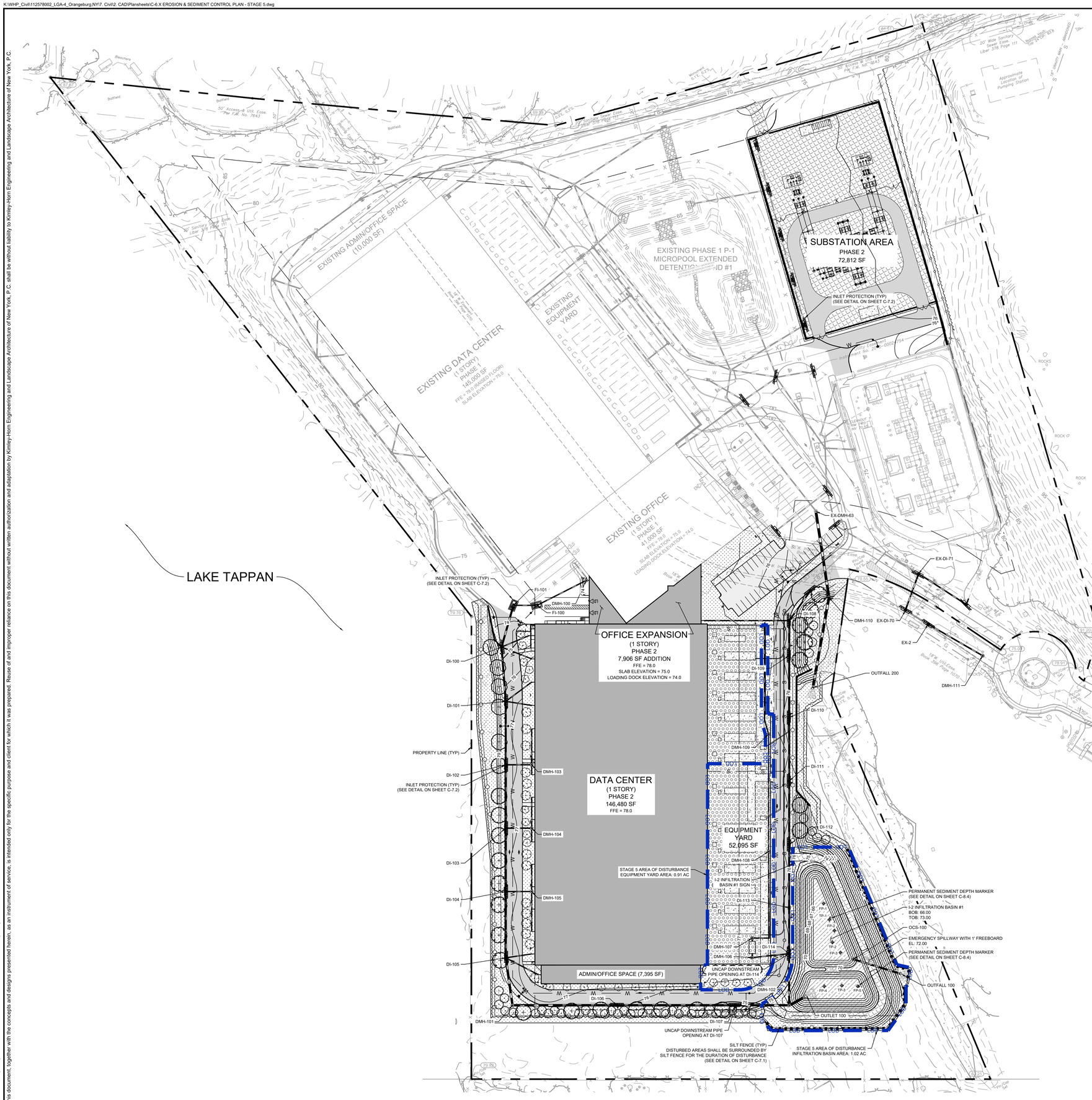
SHEET NUMBER
C-6.4

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Saved Tuesday, May 6, 2025 5:18:21 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:18:20 AM Suddath, Trent



LEGEND

- PROPERTY LINE
- LOD — STAGE 5 AREA OF DISTURBANCE (1.93 AC)
- SILT FENCE (SEE DETAIL ON SHEET C-7.1)
- TEMPORARY STAGING AREA
- INLET PROTECTION (SEE DETAIL ON SHEET C-7.2)
- STABILIZED CONSTRUCTION ENTRANCE (SEE DETAIL ON SHEET C-7.1)
- CONCRETE WASHOUT (SEE DETAIL ON SHEET C-7.1)
- DEBRIS, WASTE, AND BORROW STOCKPILE AREA
- TEMPORARY STOCKPILE (SEE DETAIL ON SHEET C-7.1)
- GRAVEL
- RIP RAP MATTING
- TEMPORARY SEDIMENT BASIN
- STORM DRAINAGE PIPE
- STORM DRAINAGE STRUCTURES
- S — GRAVITY SANITARY PIPE
- SANITARY MANHOLE
- W — WATER LINE
- VALVE, TEE, AND HYDRANT
- EXISTING WATERCOURSE
- DRAINAGE AREA BOUNDARY
- INFILTRATION TEST PIT LOCATION

GENERAL NOTES

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9. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
10. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE SHALL BE INSTALLED UNDERGROUND.
11. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.
12. NO STORMWATER RUNOFF SHALL BE DIRECTED TO THE INFILTRATION BASIN UNLESS AND UNTIL THE INFILTRATION BASIN, BASIN BOTTOM, BASIN SLOPES, PLANTINGS, ETC., HAVE ACHIEVED 100% STABILIZATION AND ALL UPSTREAM AREAS HAVE ACHIEVED 80% STABILIZATION.

STAGE 5 CONSTRUCTION SEQUENCE

STAGE 5 - (1.93 AC)

1. MOBILIZATION.
2. INSTALL EROSION CONTROL MEASURES WITHIN AND AROUND LIMITS OF DISTURBANCE FOR STAGE 5: STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT, SILT FENCE, INLET PROTECTION OF STORM STRUCTURES WITHIN AND AROUND LOD, STOCKPILE AREA, AND WASTE/BORROW AREAS.
3. EXCAVATION AND INSTALLATION OF I-2 INFILTRATION BASIN #1.
4. CONSTRUCT THE FOLLOWING STORMWATER FACILITIES. REFER TO SHEET C-4.1 FOR MORE INFORMATION.
   - 4.1. DRAINAGE STRUCTURES: DMH-107, DMH-108, DMH-109, DMH-110, OCS-100, OUTLET 100, OUTFALL 100
   - 4.2. OIL/WATER SEPARATOR
   - 4.3. ASSOCIATED DRAINAGE PIPES
5. REMOVE TEMPORARY SEDIMENT BASIN #1 STORMWATER FACILITIES AS LISTED BELOW.
   - 5.1. TEMPORARY SEDIMENT BASIN #1 OUTLET 100
   - 5.2. TEMPORARY SEDIMENT BASIN #1 OUTLET 101
   - 5.3. 104 LF OF PIPE FROM DI-107 TO TEMPORARY BASIN #1 OUTLET 100
   - 5.4. 68 LF OF PIPE FROM DI-113 TO TEMPORARY BASIN #1 OUTLET 101
6. CAP NORTHERN PIPE OPENING AT DI-107.
7. CAP WESTERN PIPE OPENING AT DI-113.
8. BACKFILL AND REMOVE TEMPORARY SEDIMENT BASIN #1.
9. UNCAP DOWNSTREAM PIPE OPENINGS AT DI-107 AND DI-114.
10. ACTIVATE I-2 INFILTRATION BASIN #1.
    - 10.1. NO STORMWATER RUNOFF SHALL BE DIRECTED TO THE INFILTRATION BASIN UNLESS AND UNTIL THE INFILTRATION BASIN, BASIN BOTTOM, BASIN SLOPES, PLANTINGS, ETC., HAVE ACHIEVED 100% STABILIZATION AND ALL UPSTREAM AREAS HAVE ACHIEVED 80% STABILIZATION.
11. CONSTRUCT SOUTHERN PORTION OF EQUIPMENT YARD WITHIN LIMITS OF DISTURBANCE.
12. INSTALL TREES, SHRUBS, AND ALL LARGE LANDSCAPE ELEMENTS SPECIFIED AND FINAL SEED AND SOD FOR FULL LOD OF THIS STAGE.
13. REMOVE ALL REMAINING TEMPORARY EROSION CONTROL MEASURES.
14. ESTIMATED TIME OF CONSTRUCTION (STAGE 5): 2 MONTHS

DISCLAIMER

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KHA PROJECT	112578002
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EROSION & SEDIMENT CONTROL PLAN - STAGE 5

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PHASE 2
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SHEET NUMBER
C-6.5

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EROSION AND SEDIMENT CONTROL NOTES

GENERAL NOTES

A. ALL E&SC MEASURES SHALL BE INSTALLED AND MAINTAINED PER NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED NOVEMBER 2016, OR LATEST REVISION THERETO.

B. THE OWNER/APPLICANT MUST ENSURE THAT TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENT CONTROL FEATURES ARE DESIGNED, INSTALLED AND MAINTAINED FOR THE DURATION OF THE PROJECT, IN ORDER TO PREVENT SOIL DISTURBANCES FROM CONSTRUCTION OPERATIONS FROM HAVING A NEGATIVE OR ADVERSE EFFECT TO ADJACENT PROPERTIES.

C. ANY IMPORTED TOPSOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR QUALITY AND USE.

D. TEMPORARY SEDIMENT TRAPPING E&S CONTROLS ARE NOT TO BE REMOVED UNTIL PERMANENT STABILIZATION (80% UNIFORM DENSITY OF PERMANENT VEGETATION OR PERMANENT MULCH/STONE) IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS PER THE NOVEMBER 2016 NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, OR LATEST REVISION THERETO.

DESCRIPTION OF WORK

A. PROVIDE MEANS NECESSARY TO INSTALL, INSPECT AND MAINTAIN, AND REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE DRAWINGS AND AS REQUIRED TO MINIMIZE THE EROSION AND UNSPECIFIED TRANSPORT OF SOIL FROM THE SITE.

QUALITY ASSURANCE

A. GENERAL

1. INSTALL AND MAINTAIN IN COMPLIANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. RETAIN A COPY OF THE PROJECT'S NOTICE OF INTENT (NOI); A BRIEF DESCRIPTION OF THE PROJECT, POST IN A PROMINENT PLACE FOR PUBLIC VIEWING; AND A COPY OF THE PROJECT'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AT THE CONSTRUCTION SITE FROM TE DATE OF INITIATION OF CONSTRUCTION ACTIVITIES TO THE DATE OF NOTICE IF TERMINATION (NOT) SUBMISSION.
2. INSTALL ALL EROSION AND SEDIMENT MEASURES IN ACCORDANCE WITH THE DRAWINGS OR NEW YORK SATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AUGUST 2005 OR LATEST REVISION THERETO.
3. GRADE AND MAINTAIN SITE AT ALL TIMES SUCH THAT ALL STORMWATER RUNOFF FROM DISTURBED AREAS IS DIVERTED TO SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES.
4. NO CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE MADE WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE.
5. NO MORE THAN 5 ACRES OF SOIL CAN BE DISTURBED AT ANY TIME WITHOUT A 5-ACRE WAIVER ISSUED BY THE NYSDEC AND/OR VILLAGE OF SLEEPY HOLLOW. ALL DISTURBED AREAS SHALL BE PROTECTED BY EROSION AND SEDIMENT CONTROL MEASURES.
6. THE CONTRACTOR SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS RELATING TO THE PREVENTION AND ABATEMENT OF POLLUTION.

B. PRODUCT DATA

1. SUBMIT MANUFACTURER'S CATALOGUE CUTS, SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR SILT FENCES, FILTER FABRICS, EROSION CONTROL BLANKETS, TRASH RACKS, ANTI-SEEP COLLARS, SEDIMENT TRAP RISER AND BARREL PIPES, AND DEWATERING DEVICES TO THE DESIGN ENGINEER FOR REVIEW AND ACCEPTANCE.

WORK SCHEDULE

A. PRE-CONSTRUCTION PHASE

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. PRIOR TO EARTHWORK OPERATIONS OR THE IMPORTATION OF FILL MATERIAL, INSTALL PERIMETER SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES.
3. PROTECT EXISTING PIPING TO REMAIN IN PLACE MAINTAINING ELEVATIONS.
4. GRADE OUT TO LOW POINTS AND INSTALL AND MAINTAIN TEMPORARY DEWATERING SYSTEMS AS REQUIRED.
5. CONVERT EXISTING OPEN GRATES ON STORM DRAIN STRUCTURES SHOWN TO REMAIN.

B. CONSTRUCTION PHASE

1. PROVIDE NECESSARY MEANS TO INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO MINIMIZE THE EROSION AND UNSPECIFIED TRANSPORT OF SOIL AND SEDIMENT UNTIL THEIR REMOVAL AS SPECIFIED. INSPECT MEASURES DAILY AND WITHIN 24 HOURS OF THE END OF A 0.5 INCH OR GREATER STORM EVENT. STABILIZED AREAS WILL BE INSPECTED MONTHLY UNTIL THE ENTIRE SITE IS STABILIZED. MAINTENANCE SHOULD COMMENCE WITHIN 24 HOURS AND BE COMPLETED WITHIN 5 CALENDAR DAYS OF DETERMINING ITS NEED.
2. PROVIDE NECESSARY DUST CONTROL WITH WATER AND/OR WIND BARRIERS TO MINIMIZE FUGITIVE DUST.
3. KEEP PAVED SURFACES SWEPT CLEAN AT ALL TIMES.
4. TEMPORARILY STABILIZE AS SPECIFIED AND AS REQUIRED ALL INACTIVE AREAS TO REDUCE DISTURBED AREAS.
5. FOLLOW FINISH GRADING, INSTALL TEMPORARY OR PERMANENT STABILIZATION.
6. IMMEDIATELY FOLLOWING THE INSTALLATION OF CATCH BASIN INLETS, INSTALL INLET PROTECTION.

C. POST-CONSTRUCTION PHASE

1. STABILIZE WATERSHED AND HAVE OWNER'S REPRESENTATIVE REVIEW AND ACCEPT.
2. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES ARE TO REMAIN IN PLACE PENDING THE START OF PERMANENT CONSTRUCTION ON-SITE OR AS OTHERWISE DIRECTED BY EITHER THE OWNER'S REPRESENTATIVE AND VILLAGE ENGINEER.

PRODUCTS AND EXECUTION

A. NO PUMPING OR DEWATERING INTO THE EXISTING STORMWATER SEWER MAIN WITHOUT PRE-FILTERING AS APPROVED BY THE VILLAGE ENGINEER.

B. SILT FENCE: SILT FENCE FABRIC SHALL BE MIRAFI 100X OR APPROVED EQUAL. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD, A MINIMUM 36 INCHES LONG AND TWO INCHES SQUARE. METAL POSTS SHALL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN ONE POND PER LINEAR FOOT. WIRE FENCE BACKING SHALL BE A MINIMUM 14.5 GAUGE WITH A MAXIMUM SIX INCH MESH OPENING AND SECURELY ATTACHED TO FENCE POSTS.

C. COIR LOGS: WOOD POSTS SHALL WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD, A MINIMUM 36 INCHES LONG AND TWO INCHES SQUARE. METAL POSTS SHALL BE STANDARD T AND U SECTION WEIGHING NOT LESS THAN ONE POND PER LINEAR FOOT. THERE SHALL BE A MINIMUM OF THREE POSTS FOR EACH LOG LENGTH AND SHALL EXTEND A MINIMUM OF 12 INCHES INTO THE GROUND. THE CONTRACTOR SHALL REMOVE SEDIMENT DEPOSITS WHEN DEPOSITS REACHES HALF THE HEIGHT OF THE COIR LOG.

D. EROSION CONTROL BLANKETS: EROSION CONTROL BLANKETS SHALL BE ESC-2 BY EAST COAST, OR APPROVED EQUAL.

E. STABILIZED CONSTRUCTION ENTRANCE: THE FILTER FABRIC SHALL BE MIRAFI 600X OR APPROVED EQUAL. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.

F. TEMPORARY STABILIZATION:

1. ESTABLISHMENT OF TEMPORARY GRASS COVER: PREPARE SEED BED, SCARIFY IF COMPACTED, REMOVE DEBRIS AND OBSTACLES SUCH AS ROCKS AND TWIGS, AND SEED WITH 24 HOURS. AMEND SOIL, LIME SOIL TO pH OF 6.0 AND FERTILIZE AT A RATE OF 14 LBS. PER 1,000 SF WITH A 5-10-10 OR EQUIVALENT FERTILIZER. WORK AMENDMENTS A MINIMUM OF 4 INCHES INTO SOIL. IF SEEDING IN OCTOBER/NOVEMBER, SEED SHALL BE CERTIFIED ARCOSTOCK WINTER RYE AT 100 LBS. PER ACRE, OTHERWISE SEED SHALL BE RYEGRASS (ANNUAL OR PERENNIAL) AT 30 LBS. PER ACRE.
2. TREAT ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED BUILDING AS NECESSARY TO PROVIDE DUST CONTROL. CONFORM TO ALL STATE AND LOCAL REGULATIONS GOVERNING THESE ACTIVITIES.

G. CONSTRUCTION VEHICLES: WASH DOWN ALL CONSTRUCTION VEHICLES AND COVER WITH TARPAULINS AS NECESSARY TO PREVENT VEHICLE TRANSPORT OF SEDIMENTS OFF-SITE.

H. PROVIDE MEASURES FOR TRUCK AND TOOL WASH WATER TO BE TREATED PRIOR TO DISCHARGE TO NATURAL AREAS.

I. NO UNFILTERED DISCHARGE FROM ANY UNSTABILIZED AREAS SHALL BE ALLOWED TO ENTER ANY PERMANENT DRAINAGE OR FILTRATION FACILITIES.

DUST CONTROL

A. CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME.

B. BUFFER AREAS OF VEGETATION SHOULD BE LEFT WHERE PRACTICAL.

C. TEMPORARY OR PERMANENT STABILIZATION MEASURES SHALL BE INSTALLED.

D. NON-DRIVING AREAS: THESE AREAS USE PRODUCTS AND MATERIALS APPLIED OR PLACED ON SOIL SURFACES TO PREVENT AIRBORNE MIGRATION OF SOIL PARTICLES.

1. VEGETATIVE COVER: FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
2. MULCH OFFERS A FAST EFFECTIVE MEANS OF CONTROLLING DUST. THIS CAN ALSO INCLUDE ROLLED EROSION CONTROL BLANKETS.

E. DRIVING AREAS: THESE AREAS UTILIZE WATER AND BARRIERS TO PREVENT DUST MOVEMENT FROM THE TRAFFIC SURFACES INTO THE AIR.

1. SPRINKLING: THE SITE MAY BE SPRAYED WITH WATER UNTIL THE SURFACE IS WET. THIS IS ESPECIALLY EFFECTIVE ON HAUL ROADS AND ACCESS ROUTES.
2. BARRIERS: WOVEN GEOTEXTILES CAN BE PLACED ON THE DRIVING SURFACE TO EFFECTIVELY REDUCE DUST THROW AND PARTICLE MIGRATION ON HAUL ROADS. STONE CAL ALSO BE USED FOR CONSTRUCTION ROADS FOR EFFECTIVE DUST CONTROL.
3. WIND BREAK: A SILT FENCE OR SIMILIAR BARRIER CAN CONTROL AIR CURRENT AT INTERVALS EQUAL TO TEN TIMES THE BARRIER HEIGHT. PRESERVE EXISTING WIND BARRIER VEGETATION AS MUCH AS PRACTICAL.

F. MAINTENANCE: MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS ARE STABILIZED.

ELEVATION NOTE

1. ELEVATION 0.0 SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS EQUALS ELEVATION 78.0 ON CIVIL DRAWINGS.

GENERAL NOTES

1. THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVES IN THE MANNER SPECIFIED BY SECTION 239L&M OF THE GENERAL MUNICIPAL LAW OF THE STATE OF NEW YORK.
2. LOT DRAINAGE SHOWN SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND ARE NOT TO BE DISTURBED.
3. CONTRACTOR TO NOTIFY TOWN OF ORANGETOWN SEWER INSPECTOR AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION WORK ON OR NEAR EXISTING OR PROPOSED SANITARY SEWER FACILITIES.
4. ALL UTILITIES, INCLUDING ELECTRIC AND TELEPHONE SERVICE, SHALL BE INSTALLED UNDERGROUND.
5. THE MAXIMUM SOIL EXPOSURE LIMIT IS 7 DAYS.

DISCLAIMER

THE SEQUENCE OF CONSTRUCTION SHOWN ABOVE IS A GENERAL OVERVIEW AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN AND SHOULD NOT BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IMMEDIATELY, PRIOR TO AND/OR DURING CONSTRUCTION IF ANY ADDITIONAL INFORMATION ON THE CONSTRUCTION SEQUENCE IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION AND ALL OTHER APPLICABLE LAWS.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
© 2025 KIMLEY-HORN ENGINEERING AND LANDSCAPE ARCHITECTURE OF NEW YORK, P.C.
1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
No. 090067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

EROSION AND SEDIMENT CONTROL NOTES

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-7.0

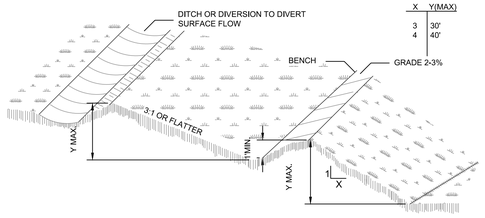
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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-7.0 EROSION & SEDIMENT CONTROL NOTES AND DETAILS.dwg

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SYMBOL



X	Y(MAX)
3	30'
4	40'

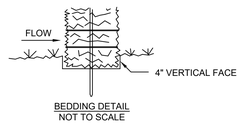
CONSTRUCTION SPECIFICATIONS

1. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
2. ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
3. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS.
4. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
5. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR INCHES PRIOR TO PLACEMENT OF TOPSOIL.
6. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
7. ALL FILL SHALL BE PLACED AND COMPACTED IN LAYERS NOT TO EXCEED 9 INCHES IN THICKNESS.
8. EXCEPT FOR APPROVED LANDFILLS, FILL MATERIAL SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OTHER OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
9. FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED IN FILLS.
10. FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
11. ALL BENCHES SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF DEVELOPMENT.
12. SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
13. ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING.
14. STOCKPILES, BORROW AREAS AND SPOIL AREAS SHALL BE SHOWN ON THE PLANS AND SHALL BE SUBJECT TO THE PROVISIONS OF THIS STANDARD AND SPECIFICATION.

LANDGRADING DETAIL AND NOTES

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



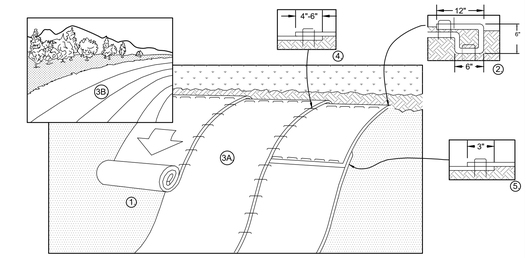
CONSTRUCTION SPECIFICATIONS

1. BALES SHALL BE PLACED AT THE TOE OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
4. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

STRAW BALE DIKE

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL

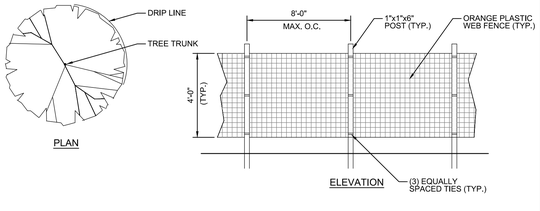


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (3A.) DOWN OR (3B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET (ERONET P300)

N.T.S. SOURCE: NORTH AMERICAN GREEN



TREE PROTECTION NOTES:

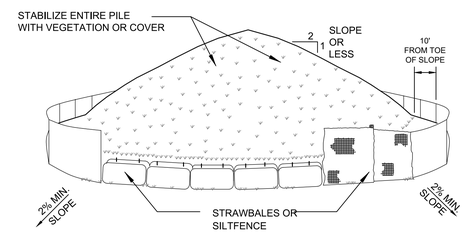
1. EXISTING TREES TO REMAIN SHALL BE PROTECTED WITH TEMPORARY EROSION CONTROL FENCE AND HAY BALE BARRIER. ERECT BARRIER AT EDGE OF THE EARTHWORK CUT LINE PRIOR TO TREE CLEARING. LAY OUT THIS LINE BY FIELD SURVEY.
2. CONTRACTOR SHALL NOT OPERATE VEHICLES WITHIN THE TREE PROTECTION AREA. CONTRACTOR SHALL NOT STORE VEHICLES OR MATERIALS, OR DISPOSE OF ANY WASTE MATERIALS, WITHIN THE TREE PROTECTION AREA.
3. DAMAGE TO EXISTING TREES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY A CERTIFIED ARBORIST AT THE CONTRACTOR'S EXPENSE.
4. INSTALL TREE PROTECTION FENCE AT THE DRIP LINE OF EXISTING TREES.

TREE PROTECTION FENCE

N.T.S. SOURCE: KIMLEY-HORN

INSTALLATION NOTES:

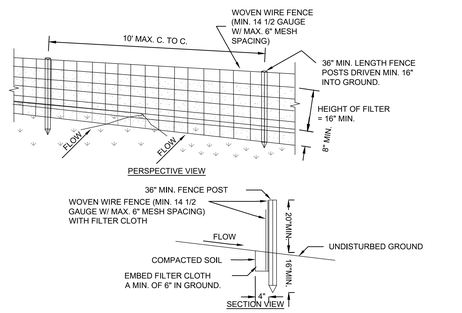
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SILT FENCE DETAIL ON THIS SHEET
5. TEMPORARILY STABILIZE AS NOTED IN SPECIFICATIONS



SOIL STOCKPILE AREA

N.T.S. SOURCE: KIMLEY-HORN

SYMBOL



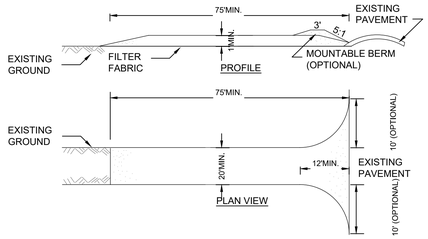
CONSTRUCTION SPECIFICATIONS

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

SILT FENCE

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL

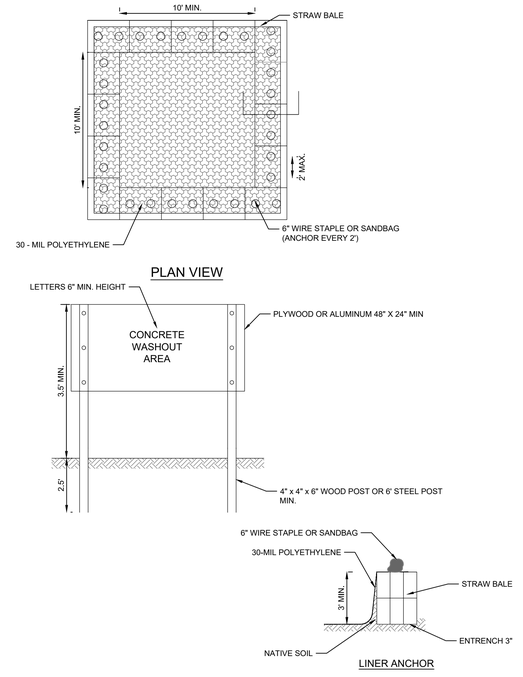


CONSTRUCTION SPECIFICATIONS

1. STONE SIZE - USE 3" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH - AS REQUIRED, BUT NOT LESS THAN 75 FEET.
3. THICKNESS - NOT LESS THAN TWELVE (12) INCHES.
4. WIDTH - TWENTY (20) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON- STRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

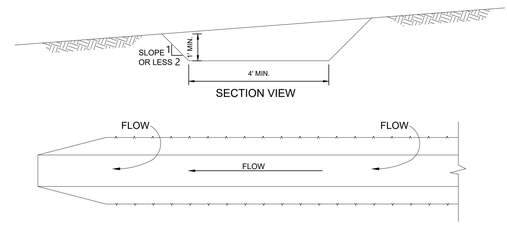
STABILIZED CONSTRUCTION ENTRANCE

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK



CONCRETE WASHOUT AREA

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK



INSTALLATION NOTES:

1. ALL TEMPORARY SWALES SHALL HAVE INTERRUPTED POSITIVE GRADE TO AN OUTLET.
2. DIVERTED RUNOFF FROM A DISTURBED AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.
3. DIVERTED RUNOFF FROM A UNDISTURBED AREA SHALL OUTLET DIRECTLY ONTO AN UNDISTURBED STABILIZED AREA AT NON-EROSIVE VELOCITIES.
4. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS, AND OTHER OBJECTIONABLE / DELETERIOUS MATERIALS SHALL BE REMOVED AND DISPOSED OF SO AS TO NOT TO INTERFERE WITH THE PROPER FUNCTION OF THE SWALE.
5. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE, AND CROS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
6. FILLS SHALL BE COMPACTED BY EARTH MOVING EQUIPMENT.
7. ALL EARTH REMOVED AND NOT NEEDED FOR CONSTRUCTION SHALL BE PLACED AS TO NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
8. INSPECTION AND MAINTENANCE MUST BE PROVIDED AFTER EACH RAIN EVENT.
9. STABILIZATION SHALL BE AS PER THE CHART BELOW.

FLOW CHANNEL STABILIZATION

TYPE OF TREATMENT	CHANNEL GRADE	A (5 AC. OR LESS)	B (5 AC. TO 10 AC.)
1	0 TO 3%	SEED AND STRAW MULCH	SEED AND STRAW MULCH
2	3 TO 5%	SEED AND STRAW MULCH	SEED AND JUTE MESH LINED - RIPRAP 2"
3	5 TO 8%	SEED AND JUTE MESH LINED - RIPRAP 2"	LINED - RIPRAP 4 TO 8"
4	8 TO 20%	LINED - RIPRAP 4 TO 8"	ENGINEERED DESIGN

TEMPORARY DIVERSON SWALE

N.T.S. SOURCE: KIMLEY HORN

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK — DANIELLO FRISINA — No. 090067 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

EROSION AND SEDIMENT CONTROL DETAILS

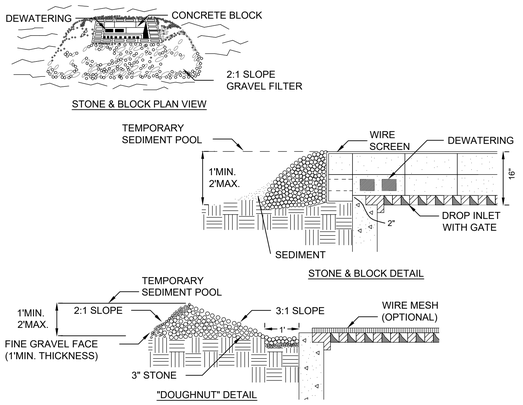
DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-7.1

WARNING - NO ALTERATION LEGAL NOTICE: IT IS A VIOLATION OF ARTICLE 145 OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON TO ALTER THIS DOCUMENT IN ANY WAY EXCEPT AS PROVIDED IN SECTION 7209 (2), ARTICLE 145, NEW YORK STATE EDUCATION LAW. THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE OWNED BY AND THE PROPERTY OF KIMLEY-HORN ENGINEERING AND LANDSCAPE ARCHITECTURE OF NEW YORK, P.C. AND IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN ENGINEERING AND LANDSCAPE ARCHITECTURE OF NEW YORK, P.C. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN ENGINEERING AND LANDSCAPE ARCHITECTURE OF NEW YORK, P.C.

K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-7.0 EROSION & SEDIMENT CONTROL NOTES AND DETAILS.dwg

SYMBOL



CONSTRUCTION SPECIFICATIONS

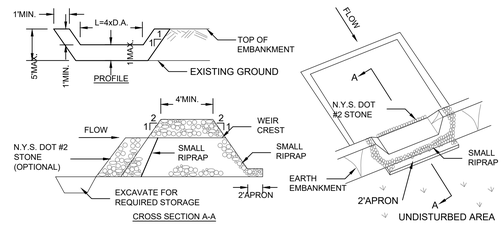
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

STONE AND BLOCK DROP INLET PROTECTION

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



OPTION: A ONE FOOT LAYER OF N.Y.S. DOT #2 STONE MAY BE PLACED ON THE UPSTREAM SIDE OF THE RIPRAP INPLACE OF THE EMBEDDED FILTER CLOTH.

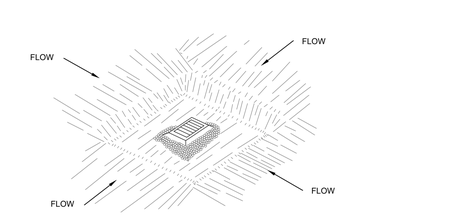
CONSTRUCTION SPECIFICATIONS

1. AREA UNDER EMBANKMENT SHALL BE CLEARED, GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR THE EMBANKMENT SHALL BE FREE OF ROOTS AND OTHER WOODY VEGETATION AS WELL AS OVER-SIZED STONES, ROCKS, ORGANIC MATERIAL OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
4. THE STONE USED IN THE OUTLET SHALL BE SMALL RIPRAP 4"-8" ALONG WITH A 1' THICKNESS OF 2" AGGREGATE PLACED ON THE UP-GRADE SIDE ON THE SMALL RIPRAP OR EMBEDDED FILTER CLOTH IN THE RIPRAP.
5. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/2 THE DESIGN DEPTH OF THE TRAP. IT SHALL BE PLACED ON SITE AND STABILIZED.
6. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
7. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND SEDIMENT ARE CONTROLLED.
8. THE STRUCTURE SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED. MAXIMUM DRAINAGE AREA 5 ACRES

STONE OUTLET SEDIMENT TRAP (ST-II)

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



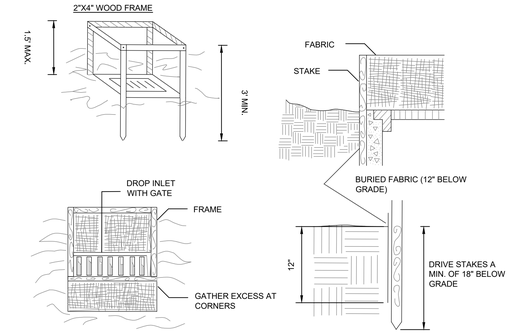
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES. FILL EXCAVATION WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING. MAXIMUM DRAINAGE AREA 1 ACRE

EXCAVATED DROP INLET PROTECTION

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



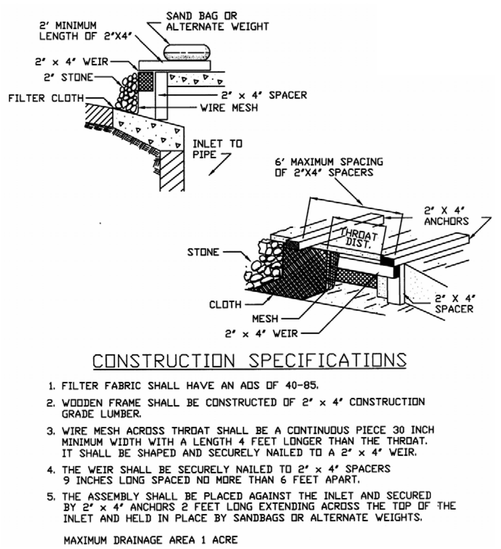
CONSTRUCTION SPECIFICATIONS

1. FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA 1 ACRE

FABRIC DROP INLET PROTECTION

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



CONSTRUCTION SPECIFICATIONS

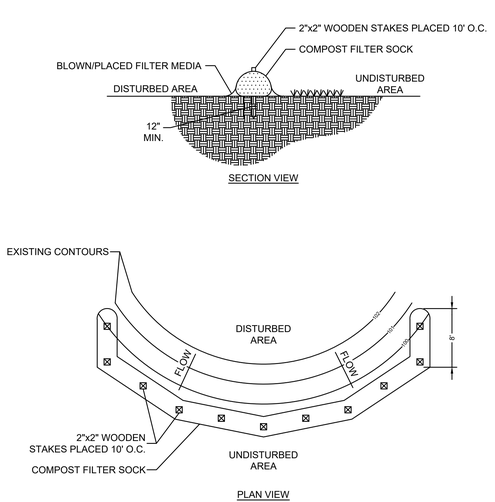
1. FILTER FABRIC SHALL HAVE AN AOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" x 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" x 4" WEIR.
4. THE WEIR SHALL BE SECURELY NAILED TO 2" x 4" SPACERS 9 INCHES LONG SPACED NO MORE THAN 6 FEET APART.
5. THE ASSEMBLY SHALL BE PLACED AGAINST THE INLET AND SECURED BY 2" x 4" ANCHORS 2 FEET LONG EXTENDING ACROSS THE TOP OF THE INLET AND HELD IN PLACE BY SANDBAGS OR ALTERNATE WEIGHTS.

MAXIMUM DRAINAGE AREA 1 ACRE

CURB DROP INLET PROTECTION

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

SYMBOL



COMPOST FILTER SOCK

N.T.S. SOURCE: NYSDEC SESC BLUE BOOK

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FOR PERMIT REVIEW

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New York
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PHONE: 914-368-9200
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DATABANK

STATE OF NEW YORK
DANIEL LO FRISCO
NO. 099067
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

EROSION AND SEDIMENT CONTROL DETAILS

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-7.2

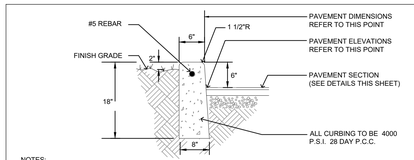
Saved Monday, April 28, 2025 10:52:34 AM KITTY.CHEN Plotted Thursday, May 15, 2025 8:18:31 AM Suddeth, Trent

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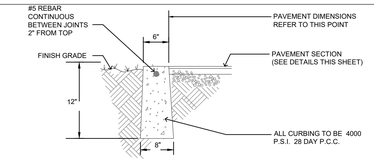
Saved Thursday, May 8, 2025 2:24:20 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:18:42 AM Suddeth, Trent



NOTES:
1. ANY EXCAVATION BELOW DESIRED GRADE DUE TO OVER EXCAVATION OR WET SOIL CONDITIONS SHALL BE BACKFILLED WITH 3/4" CLEAN CRUSHED STONE. ALL SUBGRADES SHALL BE APPROVED BY THE TOWN ENGINEER PRIOR TO POURING.
2. EXPANSION JOINTS SHALL BE PROVIDED AT EQUAL DISTANCES OF NOT MORE THAN 20' AT ALL STORM SEWER INLETS. JOINTS SHALL BE FILLED WITH PREFORMED EXPANSION JOINT FILLER, 1/2" THICK. THE JOINT SHALL BE RECESSED 1/4" FROM THE TOP AND THE FRONT OF THE CONCRETE CURB.
3. PAVEMENT REPAIR TO BE PROVIDED AS NEEDED FOR CURB REPLACEMENT.
4. THE TOP OF CURB (AT THE OUTSIDE OR NON-EXPOSED FACE) SHALL NOT VARY MORE THAN 0.01 FT. FROM A 10 FT. STRAIGHT EDGE PLACED LONGITUDINALLY ALONG THE CURB OR AT THE FLOW LINE OF THE GUTTER.
5. THE FACE OF CURB SHALL NOT VARY MORE THAN 0.03 FT. FROM A 10 FT. STRAIGHT EDGE PLACED LONGITUDINALLY ALONG THE FLOW LINE.
6. THE ELEVATION OF THE TOP OF CURB OR FLOW LINE OF GUTTER SHALL NOT VARY MORE THAN 0.02 FT. FROM THE TRUE ELEVATION LAID OUT IN THE FIELD BY THE ENGINEER.

FULL REVEAL CONCRETE CURB

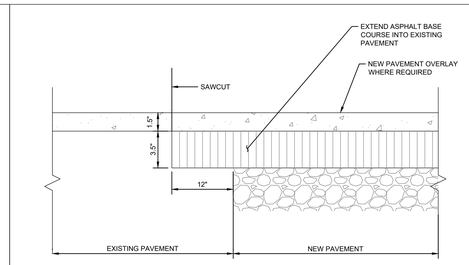
N.T.S. SOURCE: KIMLEY-HORN



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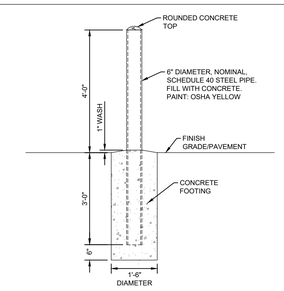
FLUSH CONCRETE CURB

N.T.S. SOURCE: KIMLEY-HORN



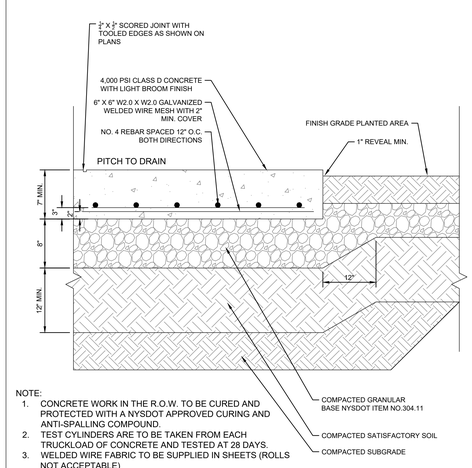
SAWCUT PAVEMENT KEY-IN

N.T.S. SOURCE: KIMLEY-HORN



6" BOLLARD DETAIL

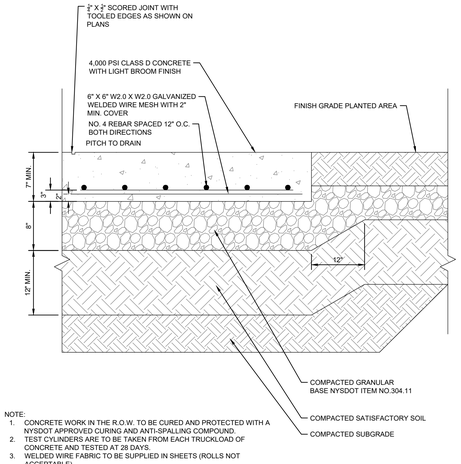
N.T.S. SOURCE: KIMLEY-HORN



NOTE:
1. CONCRETE WORK IN THE R.O.W. TO BE CURED AND PROTECTED WITH A NYSDOT APPROVED CURING AND ANTI-SPALLING COMPOUND.
2. TEST CYLINDERS ARE TO BE TAKEN FROM EACH TRUCKLOAD OF CONCRETE AND TESTED AT 28 DAYS.
3. WELDED WIRE FABRIC TO BE SUPPLIED IN SHEETS (ROLLS NOT ACCEPTABLE)

CONCRETE UTILITY PAD

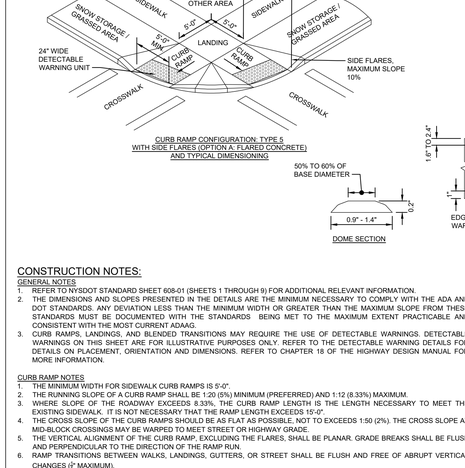
N.T.S. SOURCE: KIMLEY-HORN



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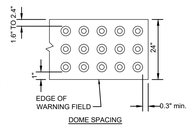
CONCRETE UTILITY PAD/CONCRETE APRON FOR DRIVEWAYS

N.T.S. SOURCE: KIMLEY-HORN

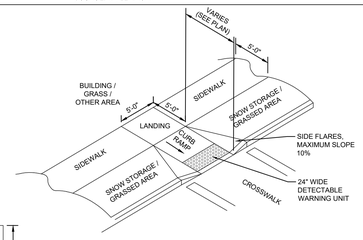


CURB RAMP CONFIGURATION: TYPE 5
WITH SIDE FLARES (OPTION A: FLARED CONCRETE)
AND TYPICAL DIMENSIONING

DOME SECTION



DOME SPACING



CURB RAMP CONFIGURATION: TYPE 11 MID-BLOCK
CROSS OR T INTERSECTION
WITH SIDE FLARES (OPTION A: FLARED CONCRETE)
AND TYPICAL DIMENSIONING

CONSTRUCTION NOTES:

GENERAL NOTES
1. REFER TO NYSDOT STANDARD SHEET 608-01 (SHEETS 1 THROUGH 9) FOR ADDITIONAL RELEVANT INFORMATION.
2. THE DIMENSIONS AND SLOPES PRESENTED IN THE DETAILS ARE THE MINIMUM NECESSARY TO COMPLY WITH THE ADA AND DOT STANDARDS. ANY DEVIATION LESS THAN THE MINIMUM WIDTH OR GREATER THAN THE MAXIMUM SLOPE FROM THESE STANDARDS MUST BE DOCUMENTED WITH THE STANDARDS BEING MET TO THE MAXIMUM EXTENT PRACTICABLE AND CONSISTENT WITH THE MOST CURRENT ADAAG.
3. CURB RAMPS, LANDINGS, AND BLENDED TRANSITIONS MAY REQUIRE THE USE OF DETECTABLE WARNINGS. DETECTABLE WARNINGS ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY. REFER TO THE DETECTABLE WARNING DETAILS FOR DETAILS ON PLACEMENT, ORIENTATION AND DIMENSIONS. REFER TO CHAPTER 18 OF THE HIGHWAY DESIGN MANUAL FOR MORE INFORMATION.

CURB RAMP NOTES
1. THE MINIMUM WIDTH FOR SIDEWALK CURB RAMPS IS 5'-0".
2. THE RUNNING SLOPE OF A CURB RAMP SHALL BE 1:20 (5%) MINIMUM (PREFERRED) AND 1:12 (8.33%) MAXIMUM.
3. WHERE SLOPE OF THE ROADWAY EXCEEDS 8.33%, THE CURB RAMP LENGTH IS THE LENGTH NECESSARY TO MEET THE EXISTING SIDEWALK. IT IS NOT NECESSARY THAT THE RAMP LENGTH EXCEEDS 15'-0".
4. THE CROSS SLOPE OF THE CURB RAMPS SHOULD BE AS FLAT AS POSSIBLE, NOT TO EXCEEDS 1:50 (2%). THE CROSS SLOPE AT MID-BLOCK CROSSINGS MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
5. THE VERTICAL ALIGNMENT OF THE CURB RAMP, EXCLUDING THE FLARES, SHALL BE PLANAR. GRADE BREAKS SHALL BE FLUSH AND PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN.
6. RAMP TRANSITIONS BETWEEN WALKS, LANDINGS, GUTTERS, OR STREET SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES (¼" MAXIMUM).
7. WHERE A PEDESTRIAN CIRCULATION PATH CROSS THE CURB RAMP, FLARED SIDES WITH A MAXIMUM SLOPE OF 10% MEASURED PARALLEL TO THE CURB LINE SHALL BE PROVIDED.

LANDING NOTES
1. LANDINGS SHALL HAVE A MINIMUM CLEAR DIMENSION OF 5'-0" BY 5'-0".
2. THE RUNNING AND CROSS SLOPE ON LANDINGS AT INTERSECTIONS SHALL BE 1:50 (2%) MAXIMUM. THE RUNNING AND CROSS SLOPE AT MID-BLOCK CROSSINGS MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.

DETECTABLE WARNING NOTES:

GENERAL NOTES
1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF THE DOMES DEPICTED ON THE DETECTABLE WARNING UNITS (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATIVE PURPOSES ONLY.

DETECTABLE WARNING UNIT DIMENSIONS
1. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE OF THE SIDE FLARES.

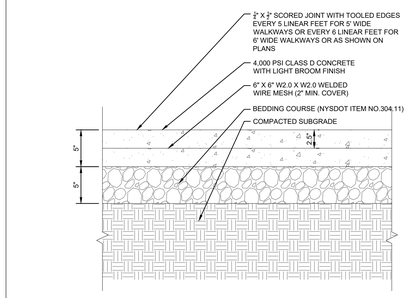
DOME ALIGNMENT
1. THE ROW OF DOMES SHALL BE BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE CURB RAMP LANDING OR THE CURB RAMP OR THE FLUSH SURFACE AND THE STREET.
2. WHERE DOMES ARE ARRAYED RADIALLY THEY MAY DIFFER IN DOME DIAMETER AND CENTER-TO-CENTER SPACING WITHIN THE RANGES SPECIFIED ON THIS SHEET.

COLOR REQUIREMENT
1. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS SET FORTH IN THE DOT STANDARD SPECIFICATIONS.

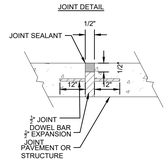
DETECTABLE WARNING LOCATIONS
1. DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THEIR EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 5" TO 9" FROM THE FRONT OF THE CURB OR ROADWAY EDGE (12" WHERE TRAVERSABLE CURB IS USED).
2. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 6'-0" MINIMUM AND 15'-0" MAXIMUM FROM THE CENTERLINE OF THE NEAREST RAIL.

PEDESTRIAN / ACCESSIBLE CURB RAMP

N.T.S. SOURCE: NYSDOT STANDARD SHEET 608-01 (SHEETS 1 THROUGH 9)



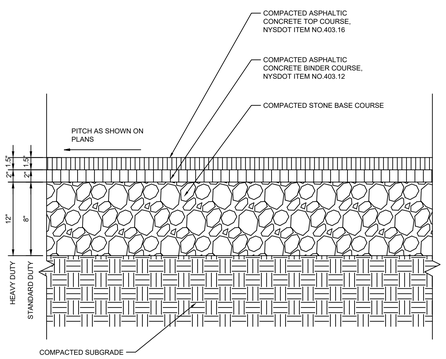
JOINT DETAIL



NOTE:
1. EXPANSION JOINTS WITH JOINT SEALANT TO BE SPACED AT 20' O.C. FOR 5' WIDE WALKWAYS AND 24' O.C. FOR 6' WIDE WALKWAYS PROVIDE ½" EXPANSION JOINT WITH SEALANT BETWEEN CONCRETE WALKWAYS AND CONCRETE CURBS, BUILDINGS, WALLS, LIGHT POLE BASES, AND OTHER STRUCTURES.
2. CONCRETE WORK IN THE THE R.O.W. TO BE CURED AND PROTECTED WITH A NYSDOT APPROVED CURING AND ANTI-SPALLING COMPOUND.
3. TEST CYLINDERS ARE TO BE TAKEN FROM EACH TRUCKLOAD OF CONCRETE AND TESTED AT 28 DAYS.

CONCRETE PAVEMENT (SIDEWALK)

N.T.S. SOURCE: KIMLEY-HORN



PAVEMENT SECTIONS

STANDARD DUTY	8" STONE BASE 2" BINDER 1½" TOP
HEAVY DUTY	12" STONE BASE 2" BINDER 1½" TOP

ASPHALT PAVEMENT - HEAVY AND STANDARD DUTY

N.T.S. SOURCE: KIMLEY-HORN

NO.	DESCRIPTION	DATE
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3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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1 NORTH LEXINGTON AVENUE, SUITE 505
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PHONE: 914-368-9200
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DATABANK

STATE OF NEW YORK — DANIEL LO FRISCO — No. 090067 — LICENSED PROFESSIONAL ENGINEER

05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

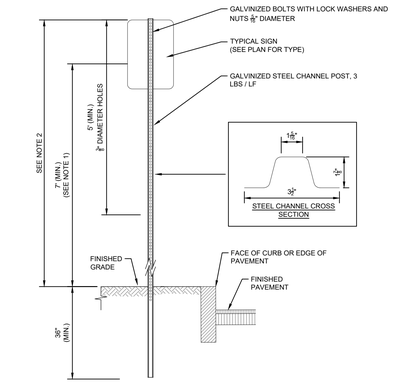
CIVIL DETAILS

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN — NEW YORK

SHEET NUMBER
C-8.0

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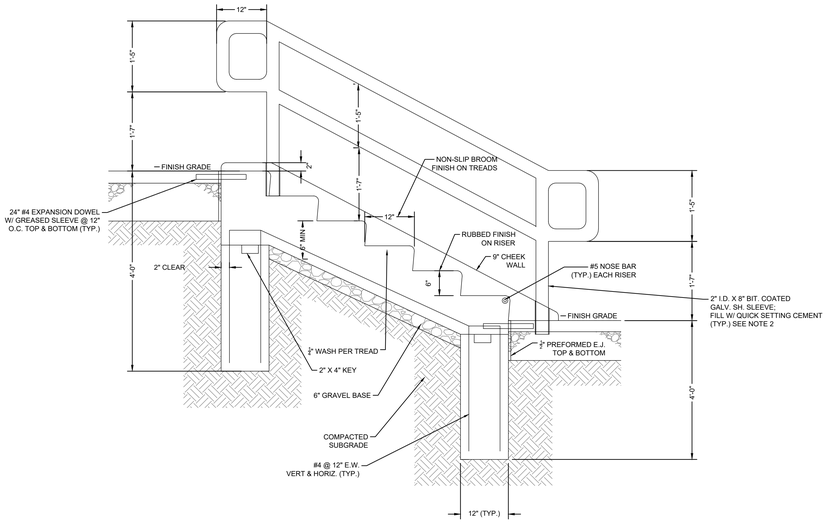
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NOTES:
1. DIMENSION SHALL BE A MINIMUM OF 5 FEET FOR ACCESSIBLE SIGNAGE.
2. DIMENSION SHALL BE A MAXIMUM OF 8 FEET FOR ACCESSIBLE SIGNAGE.
3. CHANNEL SET REFLECTIVE TRAFFIC SAFETY PANELS IN ALL PEDESTRIAN CROSSING AND STOP SIGN POSTS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
4. REFLECTIVE YELLOW PANEL FOR PEDESTRIAN CROSSING SIGNS AND REFLECTIVE RED PANEL FOR STOP SIGNS.

TRAFFIC SIGN POST

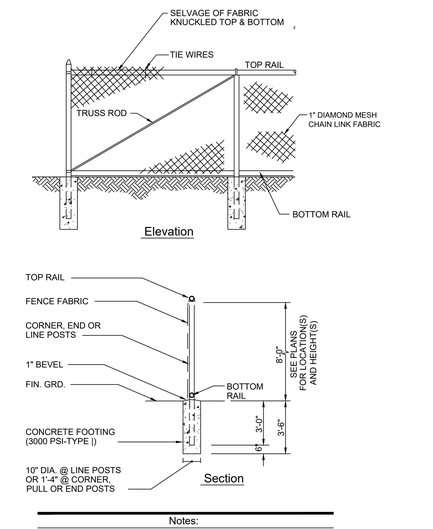
N.T.S. SOURCE: KIMLEY-HORN



NOTES:
1. SPACE AND HEIGHT OF STAIRS VARY, SEE PLANS FOR SPOT ELEVATIONS @ STAIRS & LANDING LENGTHS.
2. CONTINUOUS RAILING (POSTS @ 5' O.C. MAX.) SHALL BE USED ON BOTH SIDES OF STAIRS
3. WIDTH OF STEPS SHALL BE AS INDICATED ON THE PLANS, AS MEASURED BETWEEN INSIDE FACE OF CHEEK WALLS.

CONCRETE STAIRWELL WITH HANDRAIL

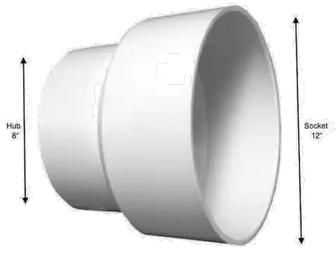
N.T.S. SOURCE: KIMLEY-HORN



Notes:
1. MATERIALS TO BE SUPPLIED AND INSTALLED IN CONFORMANCE WITH "CHAIN LINK MANUFACTURER'S INSTITUTE" PRODUCT MANUAL.
2. ALL POSTS, RAILS, HARDWARE, AND MESH SHALL BE BLACK VINYL COATED.

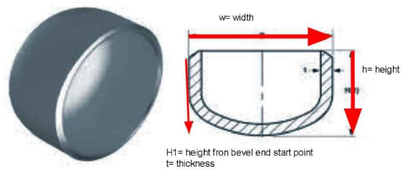
4' HIGH CHAIN LINK FENCE

N.T.S. SOURCE: KIMLEY-HORN



TYPICAL 8" TO 12" PVC PIPE FITTING

N.T.S. SOURCE: HOME DEPOT

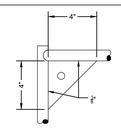


Nominal Pipe Size (NPS)	DN	Outside Diameter art Bevel	Length, L	Limiting Wall Thickness for Length	Length, L1
1/2	15	21.3	25	4.57	25
¾	20	26.7	25	3.81	25
1	25	33.4	38	4.57	38
1 1/4	32	42.2	38	4.83	38
1 1/2	40	48.3	38	5.08	38
2	50	60.3	38	5.59	44
2½	65	73	38	7.11	51
3	80	88.9	51	7.62	64
3½	90	101.6	64	8.13	76
4	100	114.3	64	8.64	76
5	125	141.3	76	9.65	89
6	150	168.3	89	10.92	102
8	200	219.1	102	12.7	127
10	250	273	127	12.7	152
12	300	323.8	152	12.7	178
14	350	355.6	165	12.7	191
16	400	406.4	178	12.7	203
18	450	457	203	12.7	229
20	500	508	229	12.7	254
22	550	559	254	12.7	254
24	600	610	267	12.7	305
26	650	660	267		
28	700	711	267	.-"-	...
30	750	762	267	.-"-	...
32	800	813	267	.-"-	...
34	850	864	267	.-"-	...
36	900	914	267		
38	950	965	305		
40	1000	1016	305		
42	1050	1067	305		
44	1100	1118	343		...
46	1150	1168	343		
48	1200	1219	343		

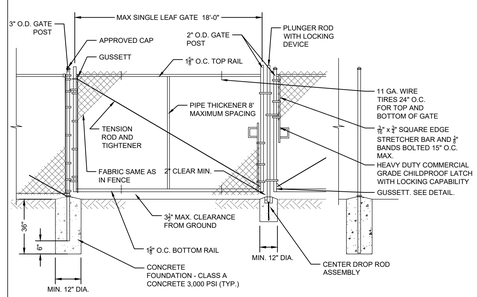
NOTES:
1. REFERENCE CHART IS TAKEN FROM ASME STANDARDS B16.9.
2. CONTRACTOR TO NOTIFY AND OBTAIN APPROVAL FROM TOWN ENGINEER SHOULD OTHER METHODS OF PIPE CAPPING ARE TO BE USED.

TYPICAL PIPE END CAP FITTING

N.T.S. SOURCE: HOME DEPOT



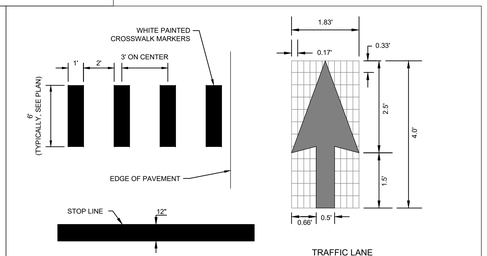
GUSSET DETAIL



NOTES:
1. PROVIDE SHOP DRAWINGS FOR APPROVAL BY PROJECT ENGINEER PRIOR TO FABRICATION.
2. TWO 6' HIGH SWING GATES WITH CHILD SAFE LATCHES AND LOCKS: COMMERCIAL GRADE CHAIN LINK SWING GATES TO BE 11 GA. 1⅝" BLACK DIAMOND PVC COATED GALVINIZED STAINLESS STELL MESH. ALL LOCKS SHALL BE SELF-LATCHING.
3. ALL KEYS SHALL BE PROVIDED TO THE DEPARTMENT OF ENVIRONMENTAL FACILITIES.
4. ALL POSTS, RAILS, ACCESSORIES AND HARDWARE SHALL BE GALVINIZED OR ALUMINIZED.
5. TERMINAL POSTS SHALL CONSIST OF END, CORNER, ANGLE, AND PULL POSTS.
6. FABRIC SHALL BE INSTALLED ON THE INSIDE OF THE FENCE.
7. SHAPE TOP OF FOOTINGS TO SHED WATER
8. FENCE TO WITHSTAND 80 MPH WINDS.

VEHICLE ACCESS GATE

N.T.S. SOURCE: KIMLEY-HORN



PAVEMENT MARKINGS

N.T.S. SOURCE: KHA

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New York
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PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK — DANIEL LO FRISO — NO. 090051 — LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

CIVIL DETAILS

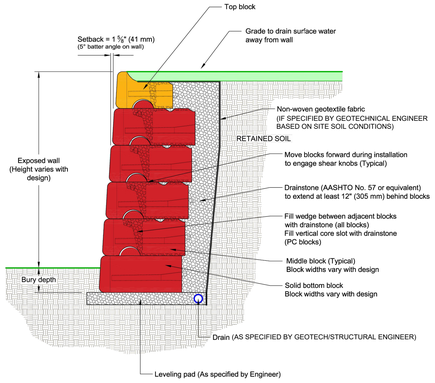
DATABANK ORANGEBURG
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2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-8.1

Saved Thursday, May 8, 2025 2:24:20 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:18:43 AM Suddeth, Trent
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Typical Gravity Wall Section

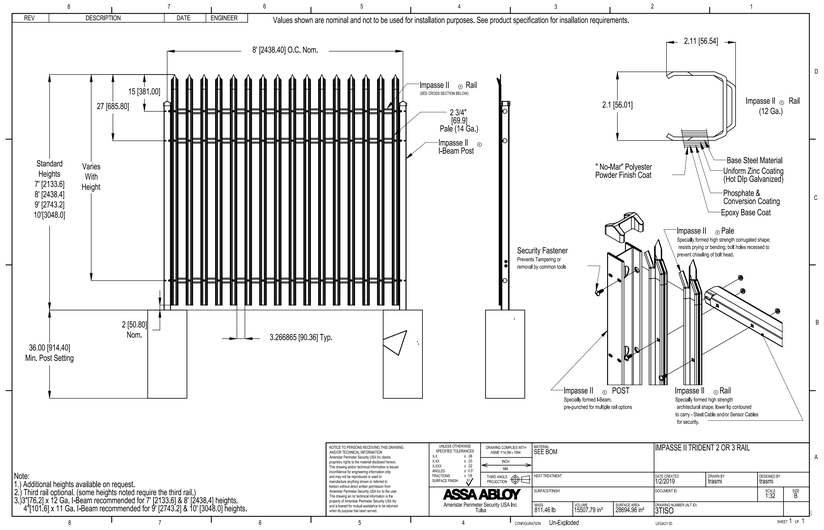


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TYPICAL GRAVITY WALL DETAIL

N.T.S. SOURCE: REDI-ROCK

REV	DESCRIPTION	DATE	ENGINEER
	Values shown are nominal and not to be used for installation purposes. See product specification for insallation requirements.		



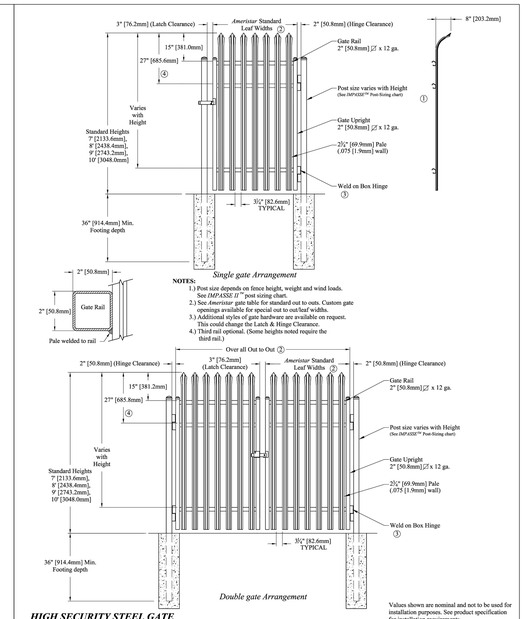
Note:
1.) Additional heights available on request.
2.) Third rail optional. (some heights noted require the third rail.)
3.)9'[76.2] x 12 Ga. I-Beam recommended for 7' [2133.6] & 8' [2438.4] heights.
4"[101.6] x 11 Ga. I-Beam recommended for 9' [2743.2] & 10' [3048.0] heights.

NOTES:

CONTRACTOR TO INSTALL PER SPECIFICATIONS BELOW:
1. FENCE TO BE 8' IN HEIGHT.
2. FENCE STYLE TO BE GAUNTLET 2-RAIL STYLE WITH STANDARD 3.25" AIR GAP.
3. FENCE SWING GATES TO BE 8' IN HEIGHT WITH GAUNTLET TOP, 2 RAILS, DOUBLE GATES, AND STANDARD 3.25" AIR GAP.
4. REFER TO AMERISTAR PERIMETER SECURITY USA INC IMPASSE II - HIGH SECURITY STEEL FENCE SYSTEM - ORNAMENTAL PALE CONSTRUCTION SPECIFICATION - SECTION 323119 FOR ADDITIONAL INFORMATION.

8' HIGH ORNAMENTAL SECURITY FENCE

N.T.S. SOURCE: AMERISTAR FENCE



NOTES:
1.) Post size depends on fence height, weight and wind loads. See *IMPASSE II™* post sizing chart.
2.) See *Ameristar* gate table for standard out to outs. Custom gate openings available for special out to out/leaf widths.
3.) Additional styles of gate hardware are available on request. This could change the Latch & Hinge Clearance.
4.) Third rail optional. (Some heights noted require the third rail.)

Values shown are nominal and not to be used for installation purposes. See product specification for installation requirements.

3GISOG

HIGH SECURITY STEEL GATE

NOTES:

CONTRACTOR TO INSTALL PER SPECIFICATIONS BELOW:
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4. REFER TO AMERISTAR PERIMETER SECURITY USA INC IMPASSE II - HIGH SECURITY STEEL FENCE SYSTEM - ORNAMENTAL PALE CONSTRUCTION SPECIFICATION - SECTION 323119 FOR ADDITIONAL INFORMATION.

8' HIGH IMPASSE II DOUBLE SWING GATE

N.T.S. SOURCE: AMERISTAR FENCE

TYPICAL PIPELINE CROSSING

N.T.S. SOURCE: KIMLEY-HORN

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STATE OF NEW YORK DANIEL LO FRISO NO. 099067 LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

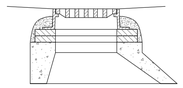
CIVIL DETAILS

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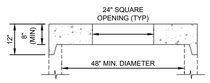
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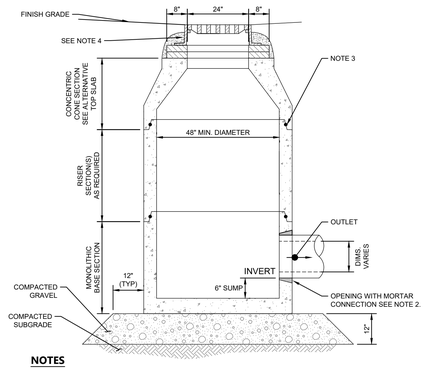
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ALTERNATIVE ECCENTRIC CONE SECTION



ALTERNATIVE TOP SLAB



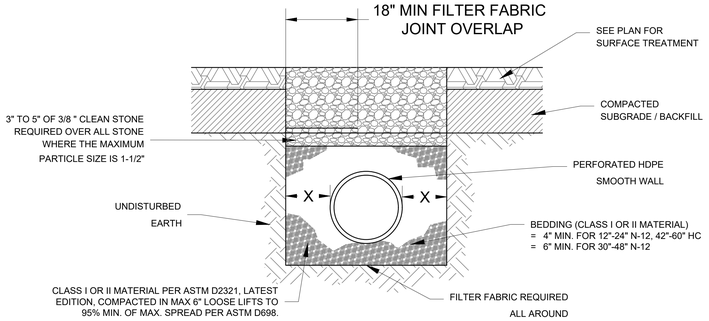
NOTES

1. ALL SECTIONS SHALL BE DESIGNED FOR HS-20 LOADING.
2. PROVIDE OPENINGS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.
3. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
4. CATCH BASIN FRAME AND GRATE SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH CLAY BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).

FIELD INLET (FI)

N.T.S. SOURCE: KIMLEY-HORN

NOMINAL DIAMETER (IN.)	MINIMUM X (FT.)	MINIMUM S (FT.)	MAXIMUM PARTICLE SIZE (IN.)
1'-0"	0'-0 11/16"	0'-1 1/8"	5/8
1'-3"	0'-0 11/16"	0'-1 1/16"	5/8
1'-6"	0'-0 3/4"	0'-1 3/16"	1 1/2
2'-0"	0'-0 13/16"	0'-1 9/16"	1 1/2
2'-6"	0'-1 1/2"	0'-2 1/4"	1 1/2
3'-0"	0'-1 1/2"	0'-2 1/16"	1 1/2
3'-6"	0'-1 1/2"	0'-2 1/8"	1 1/2
4'-0"	0'-1 1/2"	0'-2 1/8"	1 1/2
5'-0"	0'-1 1/2"	0'-2 7/8"	1 1/2

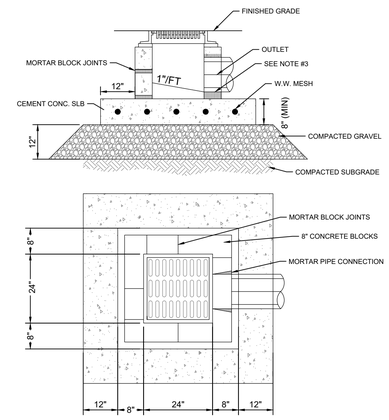


NOTES:
1. ALL RETENTION AND DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
3. FOR MORE DETAILED INFORMATION, SEE ADS TECHNICAL NOTE 2.120, "STORM WATER DETENTION/RETENTION SYSTEM DESIGN".
4. PIPE TO BE HIGH DENSITY POLYETHYLENE CONFORMING TO ASTM D3350, AASHTO M294 TYPES, AND ASTM F2306.

*FOR LIVE LOAD INSTALLATIONS PROVIDE 24" COVER FOR 42"-60" N-12.

PERFORATED HDPE PIPE/FRENCH DRAIN SECTION

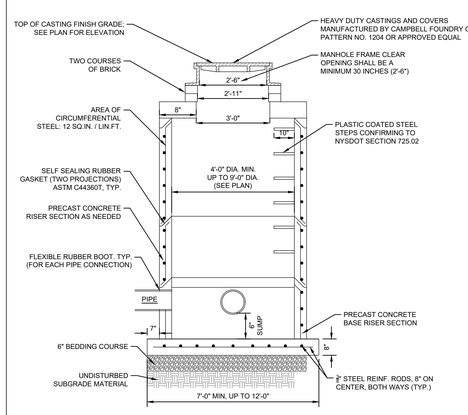
N.T.S. SOURCE: KIMLEY-HORN



NOTES:
1. FRAMES AND GRATE SHALL BE SET IN FULL BED OF MORTAR. ADJUST TO GRADE WITH CLAY BRICKS AND MORTAR AS REQUIRED.
2. CONSTRUCTION MATERIAL FOR STRUCTURE TO CONSIST OF SOLID CONCRETE BLOCK SET IN MORTAR OR PRECAST CONCRETE DESIGNED FOR H-20 LOADING.
3. PROVE "V" OPENINGS FOR PIPES WITH 2" CLEARANCE TO OUTSIDE OF PIPE (IF PRECAST). MORTAR ALL PIPE CONNECTIONS
4. MORTAR ALL JOINTS

SHALLOW INLET

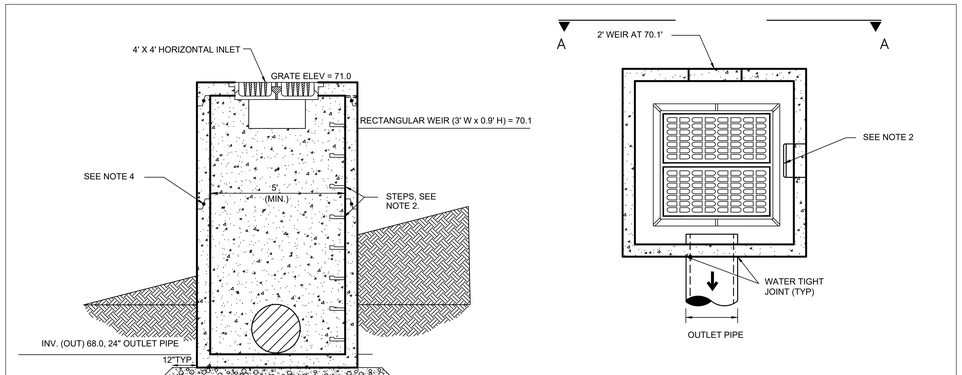
N.T.S. SOURCE: KIMLEY-HORN



NOTES:
1. ALL STRUCTURES AND CASTINGS TO SUPPORT H-20 LOADING.
2. CONTRACTOR SHALL SUBMIT SITE-SPECIFIC FABRICATION SHOP DRAWINGS FOR APPROVAL.
3. AS MANUFACTURED BY OLD CASTLE OR APPROVED EQUAL

STORM DRAINAGE PRECAST MANHOLE

N.T.S. SOURCE: KIMLEY-HORN



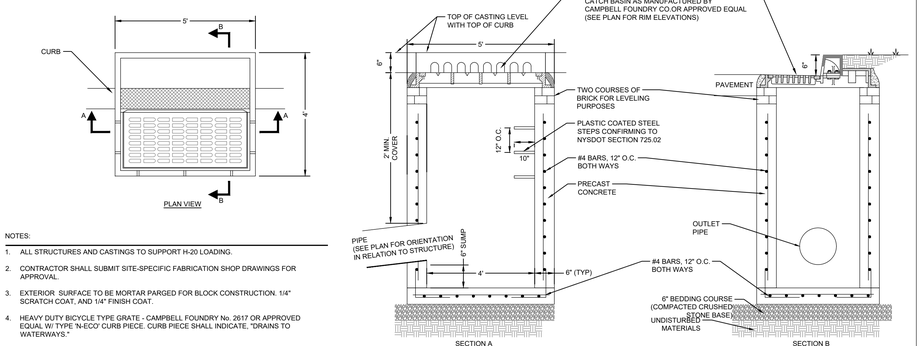
OUTLET CONTROL STRUCTURE

PLAN VIEW

Notes:
1. COPOLYMER STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
2. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
3. OUTLET PIPES ARE SHOWN ON THE SECTION AA - FRONT VIEW FOR CLARITY. ALL OUTLET PIPES WILL BE ON THE BACK SIDE OF THE OCS STRUCTURE.

OUTLET CONTROL STRUCTURE (OCS-1) - INFILTRATION POND 1

N.T.S. SOURCE: KIMLEY-HORN



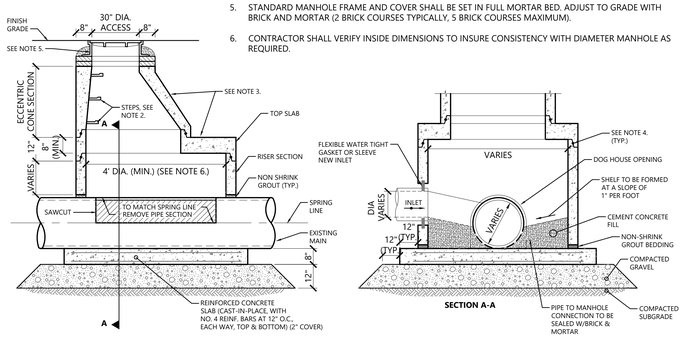
NOTES:
1. ALL STRUCTURES AND CASTINGS TO SUPPORT H-20 LOADING.
2. CONTRACTOR SHALL SUBMIT SITE-SPECIFIC FABRICATION SHOP DRAWINGS FOR APPROVAL.
3. EXTERIOR SURFACE TO BE MORTAR PARGED FOR BLOCK CONSTRUCTION. 1/4" SCRATCH COAT, AND 1/4" FINISH COAT.
4. HEAVY DUTY BICYCLE TYPE GRATE - CAMPBELL FOUNDRY No. 2617 OR APPROVED EQUAL W/ TYPE 'N-ECO' CURB PIECE. CURB PIECE SHALL INDICATE, "DRAINS TO WATERWAYS."
5. FRAME AND COVER SHALL BE SET IN FULL MORTAR BED.
6. MORTAR ALL PIPE CONNECTIONS.
7. CONTRACTOR SHALL SUBMIT SITE-SPECIFIC FABRICATION SHOP DRAWINGS FOR APPROVAL.
8. AS MANUFACTURED BY OLD CASTLE OR APPROVED EQUAL.

CATCH BASIN CURB TYPE (CB), TYPE 1

N.T.S. SOURCE: KIMLEY-HORN

NOTES

1. STRUCTURE SHALL BE DESIGNED FOR HS-20 LOADING.
2. COPOLYMER MANHOLE STEPS SHALL BE INSTALLED AT 12" O.C. FOR THE FULL DEPTH OF THE STRUCTURE.
3. ALL EXTERIOR SURFACES SHALL BE GIVEN TWO BOATS OF BITUMINOUS WATERPROOFING MATERIAL.
4. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
5. STANDARD MANHOLE FRAME AND COVER SHALL BE SET IN FULL MORTAR BED. ADJUST TO GRADE WITH BRICK AND MORTAR (2 BRICK COURSES TYPICALLY, 5 BRICK COURSES MAXIMUM).
6. CONTRACTOR SHALL VERIFY INSIDE DIMENSIONS TO INSURE CONSISTENCY WITH DIAMETER MANHOLE AS REQUIRED.



DOGHOUSE MANHOLE

N.T.S. SOURCE: KIMLEY-HORN

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4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

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WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
No. 039051
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

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ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

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C-8.3

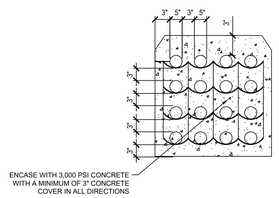
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K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\C-8.0 SITE DETAILS.dwg

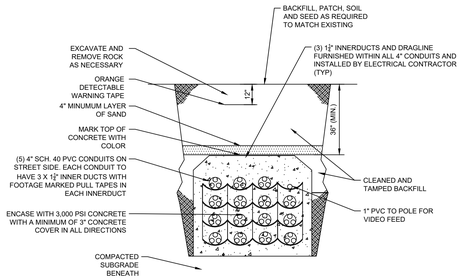
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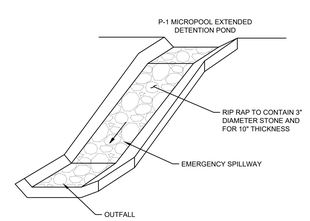
TYPICAL DUCTBANK CONDUIT SPACING

N.T.S. SOURCE: KIMLEY-HORN



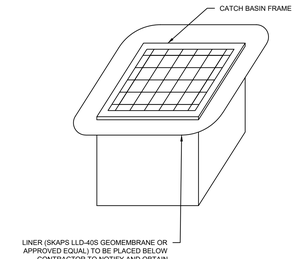
DUCTBANK TRENCH DETAIL

N.T.S. SOURCE: KIMLEY-HORN



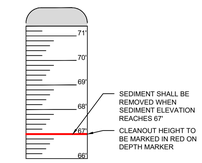
EMERGENCY SPILLWAY RIP RAP

N.T.S. SOURCE: KIMLEY-HORN



LINER FOR SEALING CATCH BASINS

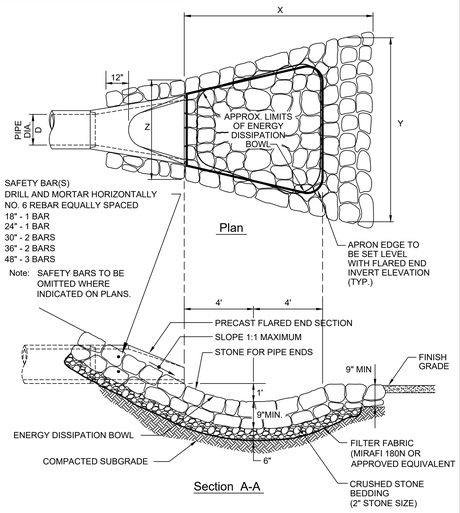
N.T.S. SOURCE: KIMLEY-HORN



SEDIMENT DEPTH MARKER: I-2 INFILTRATION BASIN #1

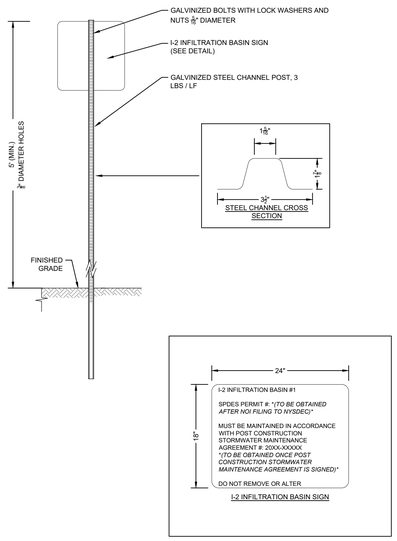
N.T.S. SOURCE: KIMLEY-HORN

FES NO.	D	X	Y	Z	STONE DIA. (D_{50})
OUTFALL 100	24"	18'	20'	6'	9"
OUTFALL 200	24"	18'	20'	6'	9"
OUTLET 100	36"	20'	23'	9'	9"



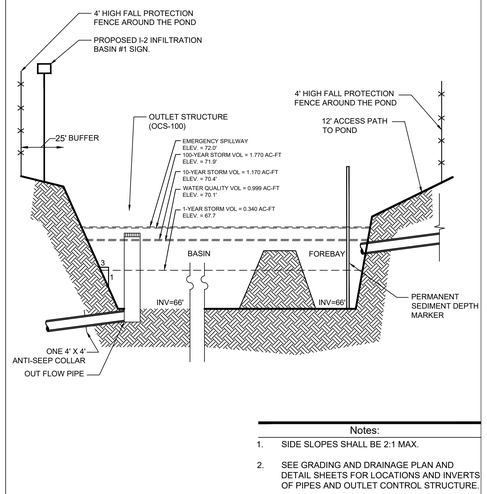
FLARED END SECTION WITH STONE PROTECTION

N.T.S. SOURCE: KIMLEY-HORN



I-2 INFILTRATION BASIN #1 SIGN

N.T.S. SOURCE: KIMLEY-HORN



I-2 INFILTRATION BASIN #1 CROSS SECTION

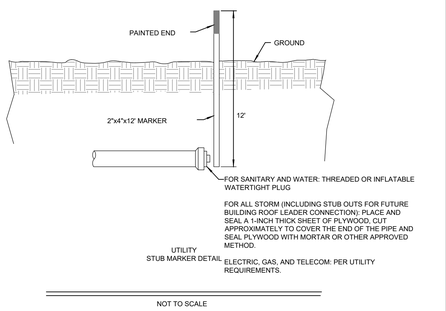
N.T.S. SOURCE: KIMLEY-HORN

Notes:

1. SIDE SLOPES SHALL BE 2:1 MAX.
2. SEE GRADING AND DRAINAGE PLAN AND DETAIL SHEETS FOR LOCATIONS AND INVERTS OF PIPES AND OUTLET CONTROL STRUCTURE.
3. SEE GRADING AND DRAINAGE PLAN FOR LOCATIONS OF THE PROPOSED STORMWATER POND SIGN AND PERMANENT SEDIMENT DEPTH MARKER.
4. WATER QUALITY VOLUME PROVIDED ACCOUNTED FOR THE COLD CLIMATE CONSIDERATION.
5. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ELEVATION REACHES 67'.

NOTES:

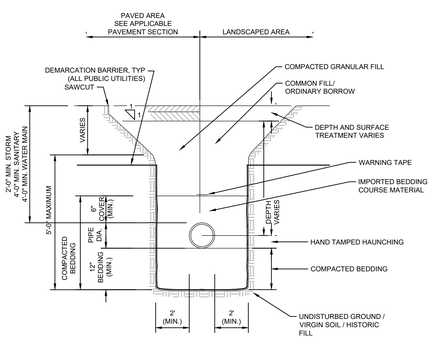
1. THE END OF ALL LATERALS SHALL BE PLUGGED WATERTIGHT AND MARKED BY A TWELVE (12) FOOT LONG 2X4 PIECE OF LUMBER. THE LENGTH SHALL BE EXACT SO THAT THE DEPTH OF THE LATERAL CAN BE DETERMINED BY THE LENGTH OF THE 2X4 PROTRUDING FROM THE SURFACE. SANITARY SERVICE SHALL HAVE GREEN PAINT, WATER BLUE PAINT, STORM RED PAINT ON THE END OF THE 2X4, AND "SAN, WATER, OR STM" STENCILED IN 2.5" LETTERS. THE 2X4 SHALL BE EVEN WITH THE INVERT AND PLUMB.
2. PIPES THAT ARE CAPPED SHALL REMAIN CAPPED UPSTREAM UNTIL FUTURE CONNECTION (TO THE BUILDING OR FUTURE PHASES) IS ESTABLISHED.



NOT TO SCALE

CAPPING OF EXISTING & FUTURE UTILITY AND STUB MARKER

N.T.S. SOURCE: KIMLEY-HORN



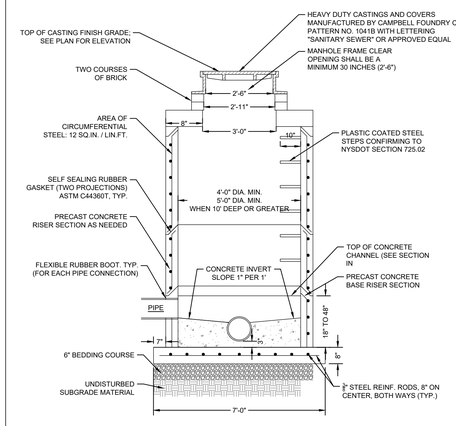
NOTES

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS, PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE SPECIAL SECTION REQUIREMENTS.
2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.
3. BACKFILL TO 95% RELATIVE MATERIAL COMPACTED DRY DENSITY AT OPTIMUM MOISTURE UNDER PAVED AND STRUCTURAL AREAS AND 90% UNDER LANDSCAPED AREAS.
4. BACKFILL WITH 90 PSI FLOWABLE CONCRETE IN VILLAGE R.O.W. (EXISTING PAVEMENT AREAS ONLY).
5. WHEN PIPES ARE TO BE INSTALLED IN FILL SECTIONS, THE CONTRACTOR SHALL INSTALL CRUSHED STONE, GRAVEL OR APPROVED STRUCTURAL FILL.

FOR 48" HDPE PIPE AND SMALLER MINIMAL GRAVEL DEPTH FROM THE TOP OF THE PIPE TO BOTTOM OF BITUMINOUS IS 12 INCHES.

UTLITY TRENCH DETAIL (STORM / SANITARY / WATER)

N.T.S. SOURCE: KIMLEY-HORN

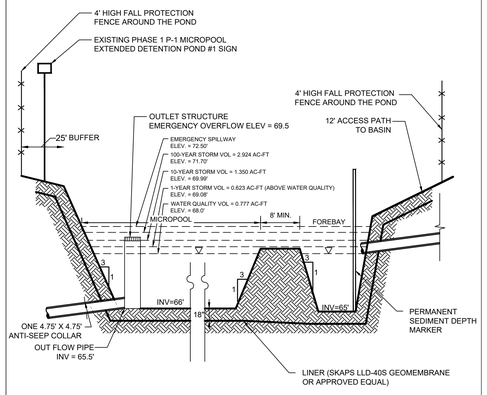


NOTES:

1. ALL STRUCTURES AND CASTINGS TO SUPPORT H-20 LOADING.
2. CONTRACTOR SHALL SUBMIT SITE-SPECIFIC FABRICATION SHOP DRAWINGS FOR APPROVAL.
3. AS MANUFACTURED BY OLD CASTLE OR APPROVED EQUAL

SANITARY SEWER MANHOLE

N.T.S. SOURCE: KIMLEY-HORN



Notes:

1. SIDE SLOPES SHALL BE 2:1 MAX.
2. SEE PHASE 1 GRADING AND DRAINAGE PLAN AND DETAIL SHEETS FOR LOCATIONS AND INVERTS OF PIPES AND OUTLET CONTROL STRUCTURE.
3. SEE C-4.8 - EXISTING PHASE 1 DETENTION POND ENLARGED VIEW FOR LOCATIONS OF THE EXISTING STORMWATER POND SIGN AND PERMANENT SEDIMENT DEPTH MARKER.
4. WATER QUALITY VOLUME PROVIDED ACCOUNTED FOR THE COLD CLIMATE CONSIDERATION.
5. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ELEVATION REACHES 67'.

EXISTING PHASE 1 P-1 MICROPOOL EXTENDED DETENTION POND #1 CROSS SECTION

N.T.S. SOURCE: KIMLEY-HORN

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3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

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WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK



05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KG
CHECKED BY:	DL

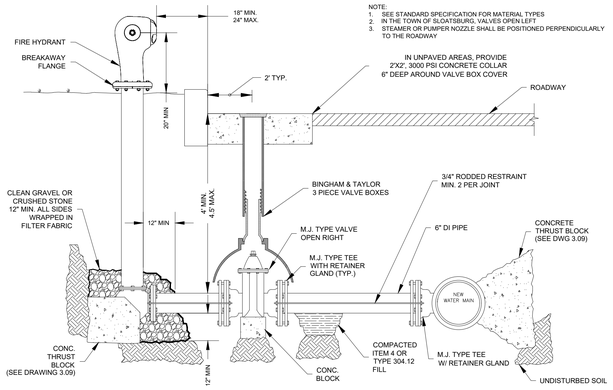
CIVIL DETAILS

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN
NEW YORK

SHEET NUMBER
C-8.4

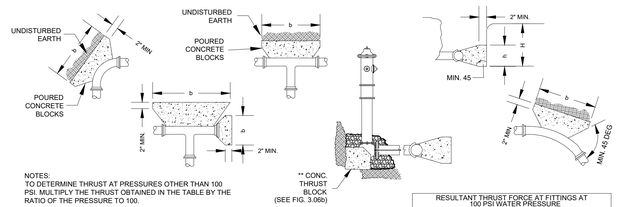
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3.06 FIRE HYDRANT INSTALLATION DETAIL (NEW MAIN)

N.T.S. SOURCE: VEOLIA WATER



NOTES:
TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100.

BEARING AREA (SF) = THRUST FORCE AT FITTING (LB.S) / BEARING CAPACITY OF UNDISTURBED SOIL (LB.S/S.F)

GRAVITY BLOCK SIZE (C.F.) = THRUST FORCE AT FITTING (LB.S) / CONCRETE DENSITY 145 (LB.S/C.F)

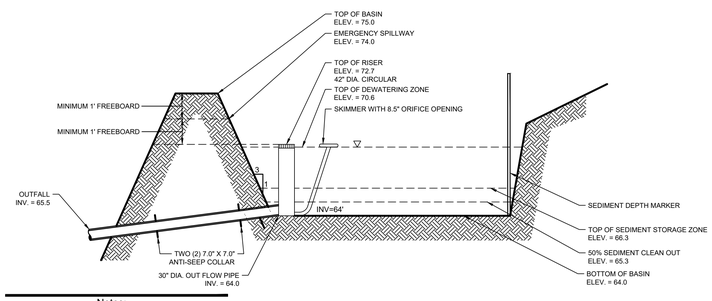
NOTES:
PLACE 6 MIL. POLYETHYLENE BETWEEN CONCRETE AND FITTING (CONCRETE SHALL NOT INTERFERE WITH JOINT.)
MINIMUM CONCRETE THICKNESS SHALL BE 12 INCHES.
THE HORIZONTAL DIMENSION (b) OF THE BEARING AREA SHALL BE BETWEEN 1.0 AND 2.0 TIMES THE VERTICAL DIMENSION (h). (h =< b =< 2h)
THE VERTICAL DIMENSION (H) OF THE BEARING AREA SHALL BE EQUAL TO ONE-HALF. THE TOTAL DEPTH (H)TO THE BOTTOM OF THE THRUST BLOCK BUT NOT LESS THAN THE OUTSIDE DIAMETER (Do) OF THE FITTING (Do =< h =< H/2).
THRUST BLOCK ORIENTATION SHALL BE SUCH THAT THE CENTER OF FITTING CORRESPONDS WITH THE CENTER OF THE THRUST BLOCK.
THE MINIMUM ALLOWABLE ANGLE (EITHER VERTICAL OR HORIZONTAL) SHALL BE 45 DEGREES.

RESULTANT THRUST FORCE AT FITTINGS AT 100 PSI WATER PRESSURE

NOM. PIPE DIA. (IN.)	DEAD END	90 BEND45° BEND	22 1/2° BEND	11 1/4° BEND
3	1,232	1,742	943	481	241
4	1,810	2,559	1,385	706	355
*6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,685	19,353	10,474	5,340	2,683
14	18,385	26,001	14,072	7,174	3,604
16	23,779	33,628	18,199	9,278	4,661
18	29,865	42,235	22,858	11,653	5,855
20	36,644	51,822	28,046	14,298	7,183
24	52,279	73,934	40,013	20,398	10,249
30	80,425	113,738	61,554	31,380	15,766
36	115,209	162,931	88,177	44,952	22,585
42	155,528	219,950	119,036	60,684	30,489
48	202,683	280,637	155,127	79,083	39,733
54	260,214	367,999	199,160	101,531	51,011
60	298,121	42,606	228,172	116,321	58,442
64	338,707	479,004	259,235	132,157	66,398

3.09 TYPICAL THRUST BLOCKING

N.T.S. SOURCE: VEOLIA WATER

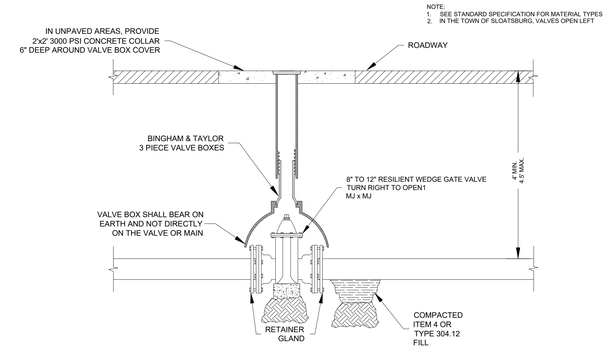


Notes:

1. SIDE SLOPES SHALL BE 2:1 MAX.
2. SEE GRADING AND DRAINAGE PLAN AND DETAIL SHEETS FOR LOCATIONS AND INVERTS OF PIPES AND RISER.
3. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ELEVATION REACHES 50% OF SEDIMENT STORAGE ZONE DEPTH.

TEMPORARY SEDIMENT BASIN #1

N.T.S. SOURCE: KIMLEY-HORN



3.08 IN-LINE GATE VALVE INSTALLATION

N.T.S. SOURCE: VEOLIA WATER

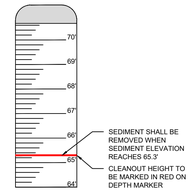
CHART 1 - ESTIMATED BEARING STRENGTH (UNDISTURBED SOIL)	
TYPE OF SOIL	ALLOWABLE SOIL BEARING CAPACITY
MUCK, PETE, ETC.	0 LB. / FT. SQ.
SOFT CLAY	500 LB. / FT. SQ.
FINE SAND	1,000 LB. / FT. SQ.
DECOMPOSED GRANITE (D.G.)	1,500 LB. / FT. SQ,
SANDY GRAVEL	2,000 LB. / FT. SQ.
CEMENTED SANDY GRAVEL	4,000 LB. / FT. SQ.
HARD SHALE	5,000 LB. / FT. SQ.
GRANITE	10,000 LB. / FT. SQ.

NOTE:

1. IN MUCK, PEAT OR OTHER INCOMPETENT SOILS, RESISTANCE SHALL BE ACHIEVED BY REMOVAL AND REPLACEMENT WITH BALLAST OF SUFFICIENT STABILITY TO RESIST THE INTENDED THRUSTS. DESIGN OF THRUST RESTRAINT SYSTEMS IN SUCH CASES SHALL BE PREPARED BY A QUALIFIED GEOTECHNICAL ENGINEER AND SHALL BE APPROVED BY THE AGENCY ENGINEER.
2. FIRE HYDRANTS THAT DEAD END PIPE RUNS, WILL NEED THRUST BLOCKS. THRUST BLOCKS ARE TO BE DESIGNED BY A NYSPE AND SUBMITTED TO SUEZ UNDER SHOP DRAWING REVIEW PROCESS

3.10 TYPICAL THRUST BLOCKING DESIGN CRITERIA

N.T.S. SOURCE: VEOLIA WATER



SEDIMENT DEPTH MARKER: TEMP SEDIMENT BASIN #1

N.T.S. SOURCE: KIMLEY-HORN

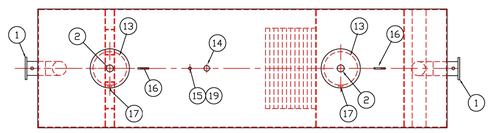
GENERAL SPECIFICATIONS

NO. REQ'D: (1)
CAPACITY: 7000 GALLONS
TYPE: HTC, ABOVEGROUND CYLINDRICAL, SINGLE WALL
MATERIAL: MILD CARBON STEEL
FLOW RATE: 700 GPM
GAUGE:
SHELL– 1/4"
HEADS– 1/4"

SURFACE PREP:
SSPC NO.6 BLAST ALL EXTERIOR SURFACES
SSPC NO.10 BLAST ALL INTERIOR SURFACES

COATING:	MATERIAL	THICKNESS
EXTERIOR–	CHEMPRIME 3001	(3–6 MILS)
	CHEMTHANE 3300	(2–3 MILS)
	TOP COAT "WHITE"	
INTERIOR–	CHEMLINE 4200 PW	(15 MILS)

CONSTRUCTION :
LAP FIT & WELD ALL EXTERIOR SEAMS
OPERATING PRESSURE : ATMOSPHERIC



PROVIDED EQUIPMENT

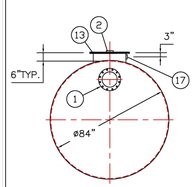
1. 150# R.F.S.O. FLANGE W/ 2" FNPT FOR VENT
2. 4"ø FNPT FOR GAUGE WITH PLUG
3. VELOCITY HEAD DIFFUSION BAFFLE
4. WEAR PLATE
5. SEDIMENT CHAMBER
6. UNDERFLOW BAFFLE
7. SLUDGE BAFFLE
8. STRIKER PLATES
9. PARALLEL CORRUGATED PLATE COALESCER. CORELLA PVC PLATES (3" PLATE SPACING)
10. OIL/WATER SEPARATOR CHAMBER
11. 6" THICK PETROSCREEN COALESCER MATERIAL INSTALLED W/ PULL ROD SHIPPED LOOSE
12. STEEL OUTLET DOWNCOMER
13. 24"ø MANWAY
14. 4"ø FNPT FOR OIL PUMP-OUT WITH INTERNAL PVC PIPE INSTALLED
15. 2"ø FNPT FOR LEVEL SENSOR
16. LIFTING LUG
17. 2"ø FNPT FOR VENT

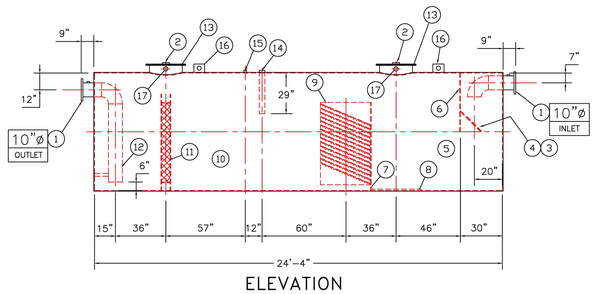
ANCILLARY PROVIDED EQUIPMENT

(2) 24" FIBREFLEX MANWAY GASKETS
(2) SETS OF NUTS/BOLTS/WASHERS FOR 24" MANWAY

NOTES

1. ALL VENT PIPING BY INSTALLER





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HIGHLAND TANK SHALL BE RESPONSIBLE ONLY FOR ITEMS INDICATED ON THIS FABRICATION DRAWING UNLESS OTHERWISE NOTED. CUSTOMER IS RESPONSIBLE FOR VERIFYING CORRECTNESS OF SIZE / LOCATION OF FITTINGS , ACCESSORIES & COATINGS SHOWN ON THIS DRAWING

REVISIONS

Highland Tank
U.S. Patent #4,722,800 Canadian Patent # 1,296,263

7000 GALLON OIL WATER SEPARATOR
HTC,ABOVEGROUND CYLINDRICAL,SINGLE WALL

CUSTOMER:
PROJECT:
QUOTE NO:
CHK'D BY:

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE ± OR – 1"	SCALE: 1/4"=1'-0"	DATE:	DWG. BY:	DWG. NO.: 07000AGCYLSWHTC

OIL WATER SEPERATOR CUTSHEET

N.T.S. SOURCE: HIGHLAND TANK

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK DANIEL LO FRISCO No. 099051 LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT 112578002
DATE 06/12/2024
SCALE: AS SHOWN
DESIGNED BY: TAS
DRAWN BY: KC
CHECKED BY: DL

CIVIL DETAILS

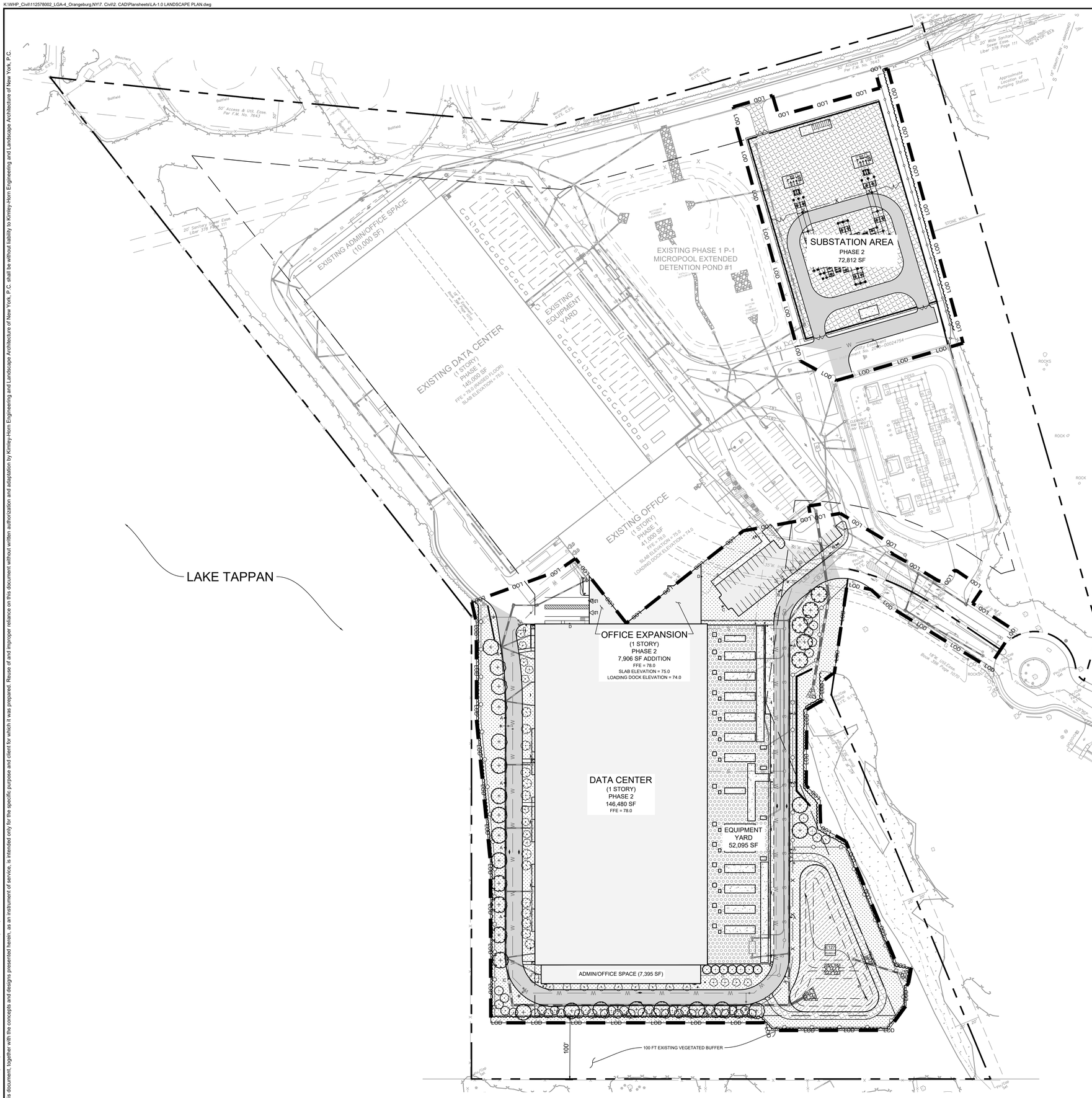
DATABANK ORANGEBURG PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
C-8.5

Saved Thursday, May 8, 2025 2:24:20 PM TRENT.SUDDETH Plotted Thursday, May 15, 2025 8:18:55 AM Suddeth, Trent

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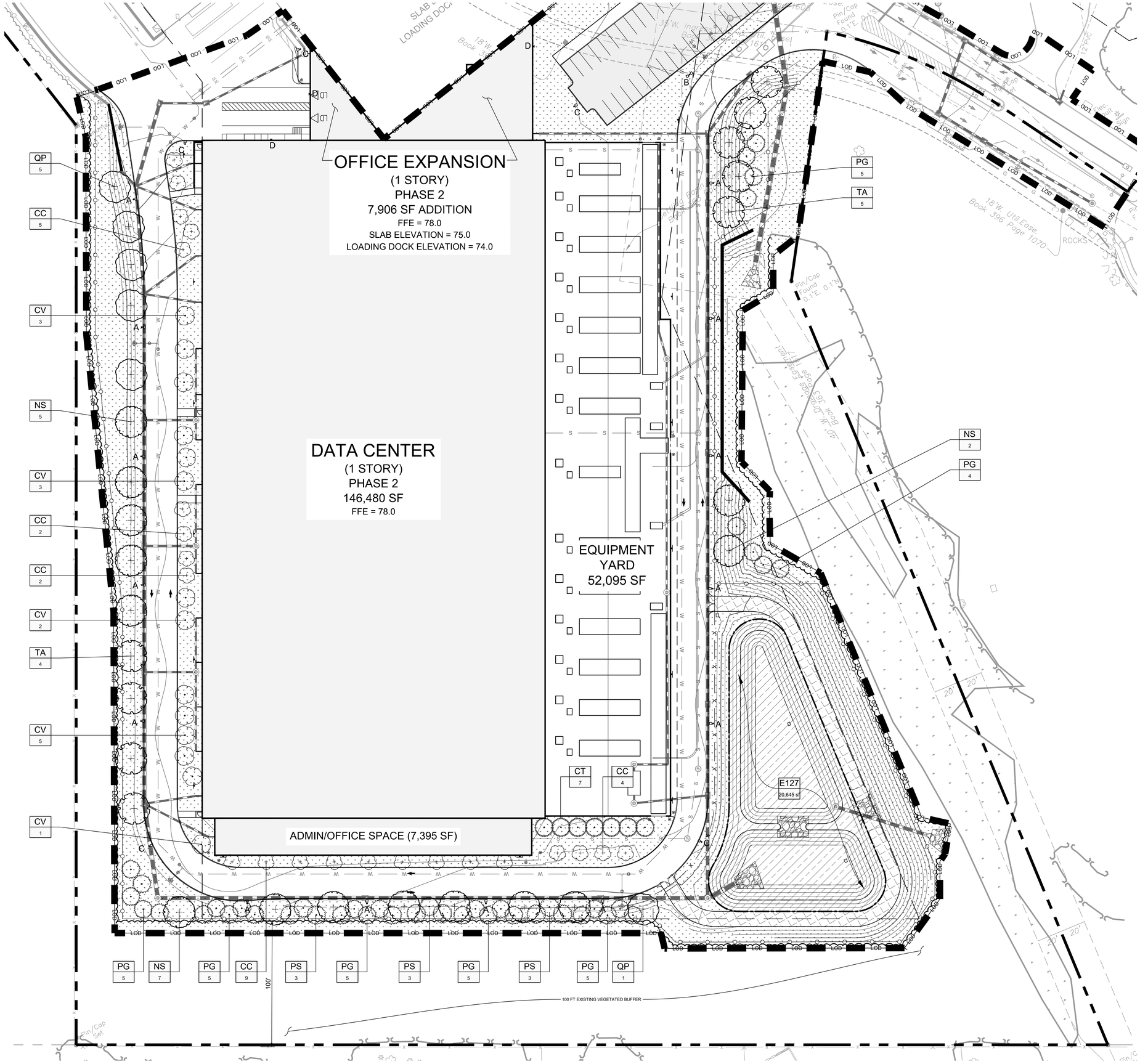
K:\WHP_Civil\112578002_LGA-4_Orangeburg,NY\7. Civil\2. CAD\Plansheets\LA-1.0 LANDSCAPE PLAN.dwg


LAKE TAPPAN
EXISTING ADMIN/OFFICE SPACE (10,000 SF)
EXISTING DATA CENTER
(1 STORY)
PHASE 1
145,000 SF
FFE = TBD (RAISED FLOOR)
SLAB ELEVATION = 75.0
EXISTING EQUIPMENT YARD
EXISTING PHASE 1 P-1
MICROPOOL EXTENDED
DETENTION POND #1
EXISTING OFFICE
(1 STORY)
PHASE 1
41,000 SF
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0
SUBSTATION AREA
PHASE 2
72,812 SF
OFFICE EXPANSION
(1 STORY)
PHASE 2
7,906 SF ADDITION
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0
DATA CENTER
(1 STORY)
PHASE 2
146,480 SF
FFE = 78.0
EQUIPMENT YARD
52,095 SF
ADMIN/OFFICE SPACE (7,395 SF)
100'
100 FT EXISTING VEGETATED BUFFER
LOD
STONE WALL
ROCKS
ROCK
20' Wide Sanitary Sewer Esmt. Liber 378 Page 111
50' Access & Util. Esmt. Per F.M. No. 7643
Approximate Location of Pumping Station
Bleachers
Bottled
Monument
Manhole
Catch Basin
Utility Pole
Light Pole
Fire Hydrant
Water Valve
Gas Valve
Sign
Flag Pole
Bollard
Tree
Shrub
Fence
Curb
Gate
Guide Rail
Concrete Pad
Generator
Transformer
Electric Box
Telephone Box
Cable Box
Gas Meter
Air Conditioner
Vault
Sanitary Manhole
Storm Manhole
Storm Inlet
Sanitary Cleanout
Roof Drain
Roof Hatch
Roof Vent
Roof Access
Roof Ladder
Roof Skylight
Roof Louver
Roof Exhaust
Roof Intake
Roof Condenser
Roof Chiller
Roof Cooling Tower
Roof Boiler
Roof Generator
Roof Transformer
Roof Electric Box
Roof Telephone Box
Roof Cable Box
Roof Gas Meter
Roof Air Conditioner
Roof Vault
Roof Sanitary Manhole
Roof Storm Manhole
Roof Storm Inlet
Roof

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Saved Thursday, May 8, 2025 1:31:39 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:19:40 AM Sudeth, Trent



LEGEND

- PROPERTY LINE
- 100' SIDEYARD SETBACK
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- BUILDING
- HEAVY DUTY FLEXIBLE BITUMINOUS PAVEMENT
- CONCRETE
- EQUIPMENT YARD (STONE)
- GRAVEL
- 8' HIGH BLACK IRON ORNAMENTAL FENCE
- CONCRETE CURB
- CONCRETE FLUSH CURB
- 2' WIDE RETAINING WALL
- EXTENTS OF STORMWATER POND
- MODIFIED EXISTING TREE LINE

PLANT KEY

SYMBOL	CODE	BOTANICAL / COMMON NAME
DECIDUOUS TREES		
+	NS	Nyssa sylvatica Sour Gum
+	QP	Quercus palustris Pin Oak
+	TA	Tilia americana American Linden
EVERGREEN TREES		
•	CT	Chamaecyparis thyoides Atlantic White Cypress
•	PG	Picea glauca White Spruce
•	PS	Pinus strobus White Pine
ORNAMENTAL TREES		
+	CC	Cercis canadensis Eastern Redbud
+	CV	Crataegus viridis `Winter King` `Winter King` Hawthorn
GROUND COVERS		
XG	--- ---	Grass Seed Area
E127		ERNST SEED MIX 127 RETENTION BASIN WILDLIFE MIX

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
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1	ISSUED FOR PRC REVIEW	06/12/2024

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New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

REGISTERED LANDSCAPE ARCHITECT
TRENT A. VAN TINE
002431-1
STATE OF NEW YORK

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

PARTIAL LANDSCAPE PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
LA-1.1

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PERFORMANCE SPECIFICATION

I. PLANTS

A. General

1. Live healthy plants free of dead branches and parts
2. Free of disease, insect, injury and damage
3. Unbroken, intact, dense and solid rootballs and containers, without cracks, flat sides or previously repaired damage.
4. Free of girdling roots or rootbound/circling container conditions
5. Plants of consistent in growth habit and healthy character
6. Free of compromising growth conditions such as weak crotch connections, crossed branches, snags and scars
7. Point of origin growing location within 100 miles of project site
8. Graded, standards, caliper, sizes and stock consistent with *ANSI Z60.1, American Standard for Nursery Stock* most current edition
9. Species identified consistent with the most current editions of: *Hortus Third: Concise Dictionary of Plants Cultivated in the United States and Canada*, and *Manual of Woody Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses*
10. All disturbed areas shall be grass seed unless otherwise identified on landscape plans

B. Trees:

1. Deciduous Single Trunk
- a. Full, straight and upright with consistent symmetrical natural branching pattern throughout
- b. Branching Height-seven (7) feet to lowest branch in two years unless otherwise required by local jurisdiction

2. Deciduous Multi-Trunk
- a. Full and upright with straight consistent symmetrical natural branching pattern throughout
- b. Canes evenly spaced and of similar growth habit
- c. Free of suckers and extraneous branching

3. Evergreen Single-Trunk
- a. Full and upright with continuous symmetrical dense natural habit
- b. Clear branching height twelve (12) inches above top of rootball
- c. Free of suckers and extraneous branching
- d. Do not shear or otherwise prune to shape plantings

C. Evergreen and Deciduous Shrubs
1. Full, dense and naturally symmetrical.
2. Consistent with container and/or balled and burlapped size
3. Free of suckers and extraneous branching
4. Do not shear or otherwise prune or shape plantings

D. Evergreen and Deciduous Groundcover
1. Full and dense in pots or flats

E. Perennials and Seasonal Color
1. Full and dense in pots or flats

F. Turf Grass

1. Subgrade
- a. Soil Mix-10% Compost, 90% topsoil by volume
- b. Preparation-loosen subgrade to a minimum depth of four (4) inches. Remove all non-natural materials including litter, stones, sticks and all items greater than ¾ inch in any dimension
- c. Preparation-spread soil mix at a depth of four (4) inches continuously to meet grade elevations shown on drawings. Allow for thickness of sod when applicable

2. Grass Sod
- a. Install not longer than twenty-four (24) hours from harvest
- b. Grass bed not less than two (2) inches in continuous thickness
- c. 100% continuous live sod coverage after first growing season and at end of warranty period.
- d. Of uniform non-varying density and continuous texture quality capable of growth and development immediately upon installation. Weed and noxious plant free
- e. Stagger installation rows and place aligned parallel to contours
- f. Fill joints solidly with planting bed preparation soil
- g. Provide anchor pins at twenty-four (24) inches on center for slopes greater than 4:1

3. Grass Seed
- a. Mix approved by the Landscape Architect
- b. Provide first and new of year seed crops in mix free of weed seeds and deleterious matter
- c. Provide seed mix not greater than 15% annual or perennial rye
- d. Coverage 85% continuous coverage live stand after first growing season and at end of warranty
- e. Replacement or overseeding mixes consistent with original application/installation
- f. Provide erosion blankets or other slope retention methods as noted on drawings

II. Materials and Appurtenances

A. Testing
1. Materials testing information/certificates/dated labels shall be current to the project and performed/certified not greater than 120 calendar previous days from current date of submittal for review

B. Top Soil
1. Neutral Ph balance 5.5 -7.5. Friable and containing 2.0-5.0% organic matter by dry weight. Continuously free of non-soil items such as stones, debris, sticks, trash, and deleterious matter greater than ¾ inch in any direction. Clay content shall not exceed 25%.Gravel content shall not exceed 10%. Silt shall not exceed 25%

C. Use of Existing Topsoil
1. Existing topsoil on-site may be repurposed with prior Owner approval. Contractor shall provide soil testing and additive program that demonstrates consistent performance and characteristics and composition as identified herein. Owner shall approve soil testing and soil amendment/additive methods and procedures

D. Shredded Hardwood Mulch
1. 100% organic shredded first year hardwood free of deleterious matter, rock, gravel and weed seed. Neutral Ph balance 5.5-7.5

E. Compost Ph
1. Balanced 5.0-8.5 mature, stable and weed free produced by natural aerobic decomposition. Free of visible contaminants and toxic substances. Not greater than 5% sand, silt, clay or rock by dry weight. Consistent with US-EPA CFR Title 40 Part 503 Standards for Class A biosolids

G. Compost Testing
1. Prior to delivery on-site, the following items are required for approval by Owner: Feedstock percentage in final compost product; statement that the products meets federal, state and local health safety requirements
2. Provide copy of lab analysis less than 120 calendar days old verifying that the product meets described physical requirements; chemical contaminants; Ph; physical contaminants; biological contaminants (including a statement that fecal coliform and salmonella testing and results comply with requirements of the US Composting Council Seal of Testing approval programs

H. Planting Mix
1. 85% topsoil and 15% Compost

I. Fertilizer
1. Granular 10% nitrogen, 6% Phosphorous, 4% Potassium granular form with 50% Nitrogen in organic form. Product and Material Safety Data as approved by Owner

J. Herbicide
1. Product and Material Safety Data as approved by Owner

K. Water
1. Potable only unless otherwise approved by Owner

L. Hardwood Stakes
1. 2 x 2 x 48 inch square of sound hardwood, painted flat black on all sides

M. Tree Ties
1. Villa Non-Abrasive Rubber Tree Ties or approved equal

N. Filter Fabric
1. Mirafi 140-N or approved equal

O. Steel Edging
1. 1/8-inch x 4-inch in full sections. Ryerson, Timec or approved equal with integral stakes. No open corners. Corners shall be formed and trued to compliant angle or welded closed

P. River Stone
1. Locally sourced, river rounded, unfaceted river stone/cobbles.
2. Size shall not exceed 3 total inches in any dimension.
3. Color and texture approved by Owner
4. When placed in concrete or mortar setting bed, tamp to secure and brush clear joints.
5. Concrete or mortar as approved by owner.

III. Execution

A. Site Conditions
1. Inspect site and notify Owner in writing of acceptance with indication that project conditions are acceptable are suitable to proceed with work. Notify Owner of any existing damage and/or other conflicting conditions.
2. Do not proceed with work until unsatisfactory conditions have been satisfactorily remedied. Notify Owner of acceptance prior to commencement of work.
3. Notify Owner in writing of any conditions that may preclude successful completion of work including items such as coordination with other trades, incomplete work, drainage, soil temperature and/or composition, access to storage/work areas, damage to conditions, etc.
4. Notify Owner in writing immediately of any items that may influence work schedule, timing of tasks, materials delivery and/or installation and warranty responsibilities.
5. Coordinate and cooperate with other trades working in and adjacent to work areas. Examine drawings of other trades which show development of the entire project and become familiar with the scope of required work by others.

B. Planting Seasons

Recommended seasons are a general guide based on historical climatic data and typical performance of plantings, and which vary dependent on project-specific environmental conditions. Due to construction schedules, recommended planting seasons may/may not coincide with request(s) for certificate of occupancy for projects. Coordination of planting installation and seasons shall be reviewed with Owner on an individual project basis.

1. Deciduous and Evergreen Trees

Do not install/plant the following trees between September 15 and March 15
1. Oaks (Quercus Sp., Such as Q. rubra, Q. alba, Q. phellos, Q. coccinnea)
2. Dogwood (Cornus Sp.)
3. Sweetgum (Liquidambar Sp.)
4. All Conifers and Evergreens except White Pine (Pinus strobus Sp.)

2. Deciduous and Evergreen Shrubs
- a. Install/plant between March 15 and June 15 and/or September 15 and November 30

3. Perennials
- a. Install/plant between March 15 and June 15 and/or September 15 and November 30

4. Spring Flowering Bulbs
- a. Install/plant between September 15 and December 15

5. Seasonal Annuals
- a. Install/plant in season per approved schedule

6. Turf Grass
- a. Install/plant between March 15 and May 15 and/or September 15 and November 30
- b. Do not install/plant seed or sod turf grass areas when ambient air temperature is below forty (40) degrees Fahrenheit, or forecast for a twelve (12) hour period after completion of work

7. No Plant Installation
- a. Do not install plantings or turf grass between June 15 and September 15, without approval by Owner

C. Positioning & Location of Plantings
1. Position plants to show the most-prominent and well-formed face to most-public view
2. Field locate plants and location/spacing/dimension of planting beds on project site prior to beginning installation
3. Verify location of individual plants and plant beds prior to beginning installation. Do not proceed without Owner approval

D. Implementation
1. Pursue work continuously without delay or interruption until completion unless notified otherwise by Owner
2. Provide project submittals ahead of commencement of work. Landscape Architect requires a minimum of ten (10) working days from date of receipt for review of submittals and response to Owner and Contractor. Plan accordingly for procurement of materials
3. Continuously update implementation schedule and notify Owner of progress. Delays related to material availability are not cause for non-completion of scheduled delivery of work
4. Report delays due to weather or site conditions immediately upon finding. Provide recommendation for remedy of schedule delays. Do not work, place or modify frozen soil
5. Report delays due to extraordinary natural or other conditions beyond control of Contractor

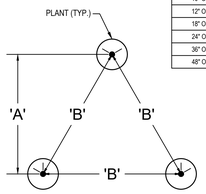
E. Clean Up
1. Remove trash, debris and work materials from site prior to request for substantial completion. Thoroughly clean surfaces impacted by work including building, parking areas, roadways, sidewalks, signs, lights, site furnishings, etc.
2. Repair any damage to existing conditions that occurred during execution of work.
3. All clean-up and demobilization procedures shall be performed to satisfaction of the Owner and Landscape Architect.

GENERAL NOTES

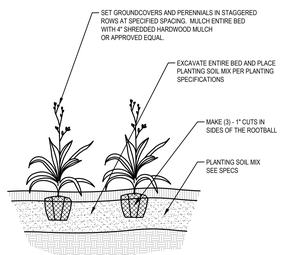
1. Plants shall be healthy, vigorous material, free of pests and diseases and are subject to approval/rejection of the Landscape Architect prior to, during and after installation.
2. Contractor shall identify all materials at growing location prior to purchase and submit digital photographs, and source list to the Landscape Architect for approval at a minimum of six (6) calendar weeks prior to installation. Plants not approved shall be resourced and resubmitted.
3. Planting beds and individual tree plantings shall be mulched continuously as specified.
4. Prior to construction the contractor shall be responsible for locating underground utilities and execute work in a manner that avoids damage to utilities during the course of work. Contractor shall be responsible or remedy of any damage to utilities, structures, site appurtenances that occur as a result of landscape related work.
5. Contractor is responsible for verifying quantities shown on documents. Field adjustments shall be approved by Landscape Architect prior to installation. Quantities indicated on drawings are for reference. It is the Contractor's responsibility to ensure full coverage of plants at the indicated spacing.
6. Contractor is responsible for maintenance of all plantings including, but not limited to watering, mowing, edging, spraying, mulching, fertilizing, of plantings and turf areas for one (1) calendar year from date of certificate of occupancy. Contractor is responsible for warranty of all plant material for a period of one (1) calendar year from date of certificate of occupancy. Warranty replacement planting shall meet or exceed the original specification identified on drawings. Replacement planting shall extend the same warranty as originally installed materials. Plantings and grass areas shall be flourishing and fully thriving at end of warranty period.
7. Plants identified for replacement by Owner, Landscape Architect shall be replaced immediately by the Contractor unless otherwise agreed upon. Plantings (trees, shrubs, groundcover) subject to replacement by warranty shall exhibit characteristics of 30% dead-per individual plant, non-contributing or disease compromised. Grass areas suitable for acceptance shall demonstrate 85% sustained/consistent and continuous, densely established coverage. Contractor shall perform a site review at end of warranty period and provide the Owner with written documentation of the site, including plant health, warranty replacement items, and conditions that may be influencing plant health. Contractor shall remove from plants and site, all staking and guying material at end of warranty period.
8. Contractor shall comply with all local, state and federal requirements, codes and regulations related to the work undertaken.
9. All material including planting operation appurtenances shall be of domestic origin manufacture and sourced within 100 miles of the project site.
   a. 10. Contractor is responsible for coordination among trades operating on site. Coordination and if necessary resulting modifications to schedules are responsibility of the Contractor.

SPACING 'B'	ROW 'A'
8" O.C.	6.9" O.C.
10" O.C.	8.6" O.C.
12" O.C.	10.4" O.C.
18" O.C.	15.6" O.C.
24" O.C.	20.8" O.C.
36" O.C.	30.0" O.C.
48" O.C.	31.5" O.C.

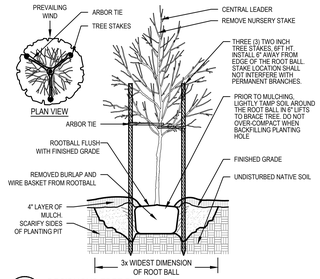
NOTE: GROUNDCOVERS AND PERENNIALS TO BE INSTALLED WITH TRIANGULAR SPACING



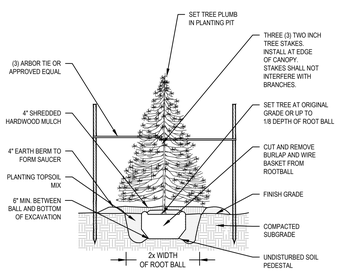
1 GROUNDCOVER SPACING
NOT TO SCALE



2 GROUNDCOVER PLANTING
NOT TO SCALE

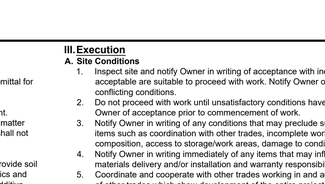


3 DECIDUOUS TREE PLANTING
NOT TO SCALE

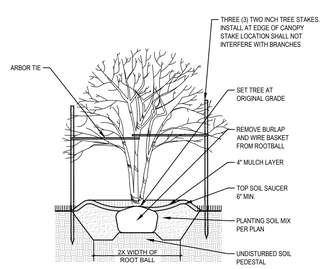


4 EVERGREEN TREE PLANTING
NOT TO SCALE

NOTE: SHRUBS INSTALLED IN CONTINUOUS SUCCESSION SHALL BE PLACED IN ONE CONTINUOUS BED



5 SHRUB PLANTING
NOT TO SCALE



6 MULTI TRUNK TREE PLANTING
NOT TO SCALE

PLANT SCHEDULE PHASE 2

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE AT PLANTING	ROOT
DECIDUOUS TREES					
NS	14	Nyssa sylvatica	Sour Gum	3" Cal.	B&B
QP	6	Quercus palustris	Pin Oak	3" Cal.	B&B
TA	9	Tilia americana	American Linden	3" Cal.	B&B
EVERGREEN TREES					
CT	7	Chamaecyparis thyoides	Atlantic White Cypress	8` Ht.	B&B
PG	34	Picea glauca	White Spruce	8` Ht.	B&B
PS	9	Pinus strobus	White Pine	8` Ht.	B&B
ORNAMENTAL TREES					
CC	22	Cercis canadensis	Eastern Redbud	8` - 10` Ht.	B&B
CV	14	Crataegus viridis `Winter King`	`Winter King` Hawthorn	8` - 10` Ht.	B&B

SYMBOL	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE / TYPE	QTY / RATE
GROUND COVERS						
	XG	103,614 sf	--- ---	Grass Seed Area	---	10 LBS. PER 1000 SF
	E127	20,645 sf	ERNST SEED MIX 127	RETENTION BASIN WILDLIFE MIX	SEED	1 LB PER 1000 SF

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/26/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

REGISTERED LANDSCAPE ARCHITECT — KEVIN A. VAN WINKLE — 002431-1 — STATE OF NEW YORK

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

LANDSCAPE NOTES AND DETAILS

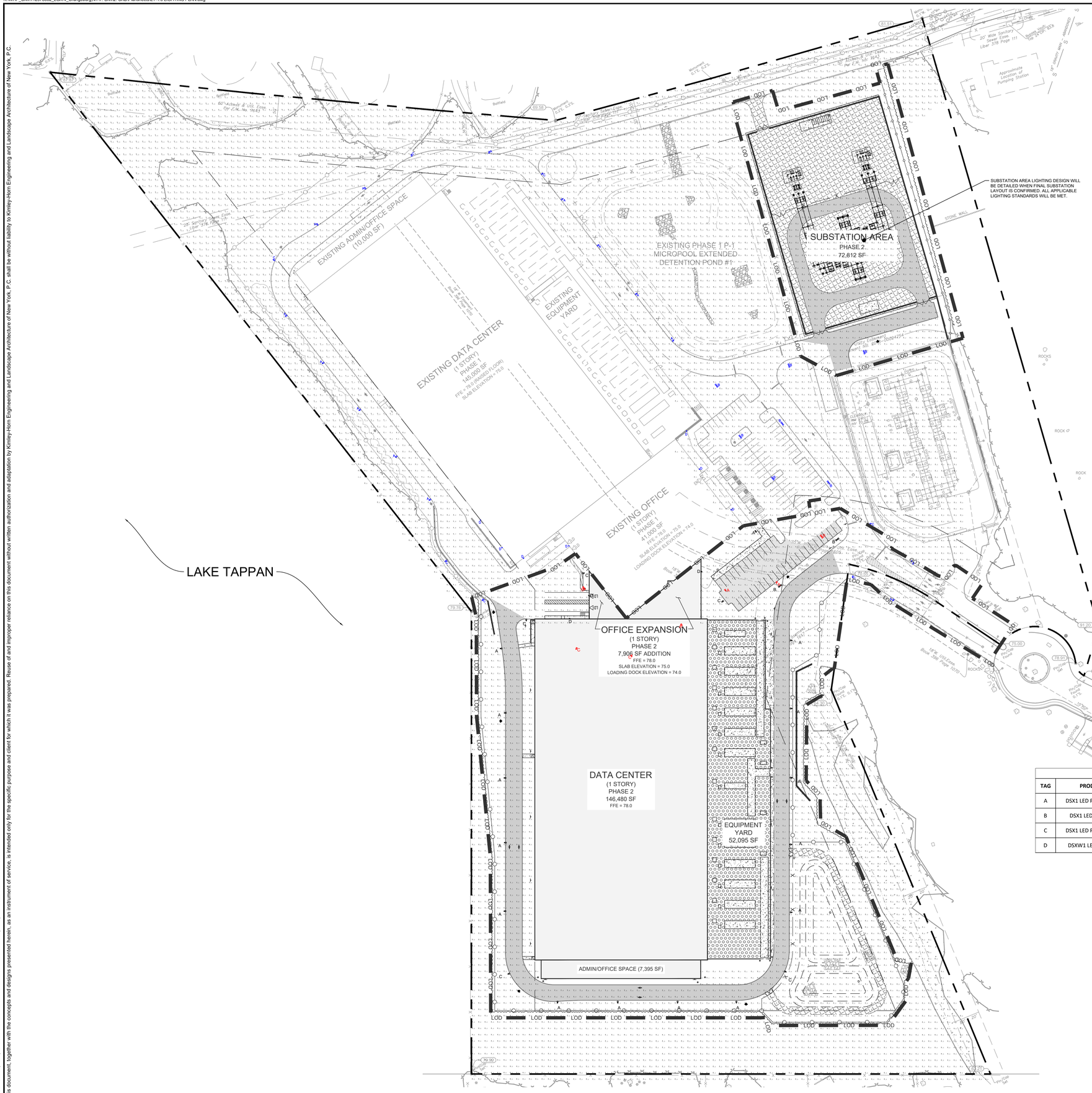
DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN
NEW YORK

SHEET NUMBER
LA-1.2

Saved Thursday, May 8, 2025 1:31:39 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:19:44 AM Suddath, Trent
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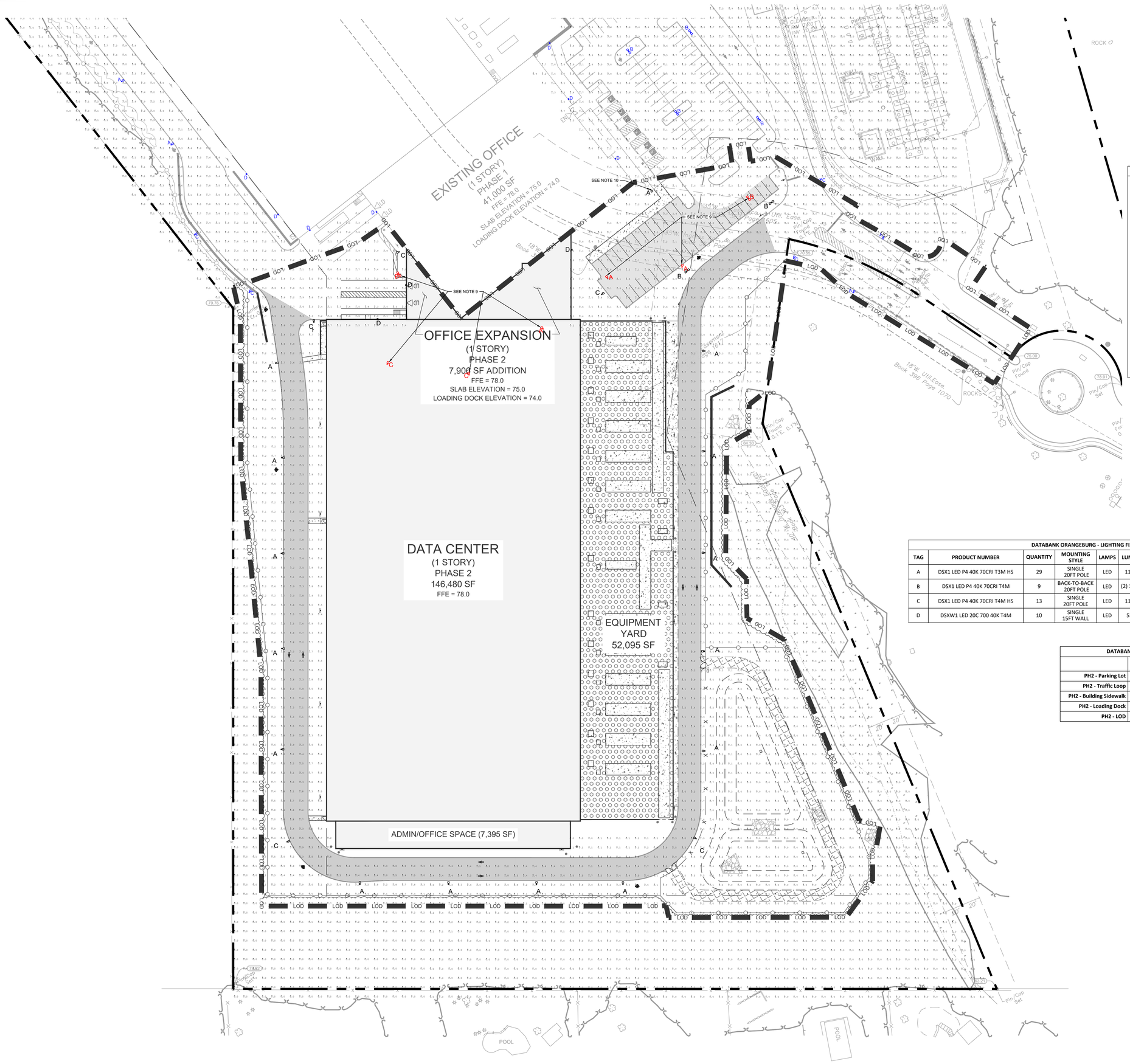
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LAKE TAPPAN
EXISTING DATA CENTER
(1 STORY)
PHASE 1
145,000 SF
FFE = 78.0 (RAISED FLOOR)
SLAB ELEVATION = 75.0
EXISTING ADMIN/OFFICE SPACE
(10,000 SF)
EXISTING EQUIPMENT YARD
EXISTING OFFICE
(1 STORY)
PHASE 1
41,000 SF
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0
EXISTING PHASE 1 P.V.
MICROPOOL EXTENDED
DETENTION POND #1
SUBSTATION AREA
PHASE 2
72,812 SF
OFFICE EXPANSION
(1 STORY)
PHASE 2
7,906 SF ADDITION
FFE = 78.0
SLAB ELEVATION = 75.0
LOADING DOCK ELEVATION = 74.0
DATA CENTER
(1 STORY)
PHASE 2
146,480 SF
FFE = 78.0
EQUIPMENT YARD
52,095 SF
ADMIN/OFFICE SPACE (7,395 SF)
LOD
STONE WALL
ROCKS
ROCK
Approximate Location of Pumping Station
20' Wide Sanitary Sewer Ease. Liber 378 Page 111
Bleachers
Batting Cage
Scoreboard
Backstop
Dugout
Bullpen
Mound
Home Plate
Pitcher's Rubber
Baseline
Foul Line
60' Access & Util. Ease. Liber 6344 Page 1
Access Rd. #64
Par. #1
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Access Rd. #-7
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Access Rd. #-8
Par. #1
Access Rd.

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Saved Tuesday, May 6, 2025 5:20:25 PM KITTY.CHEN Plotted Thursday, May 15, 2025 8:20:32 AM Suddath, Trent



LEGEND

- PROPERTY LINE
- 100' SIDEYARD SETBACK
- LOD — TOTAL AREA OF DISTURBANCE (12.67 AC)
- EXISTING WATERCOURSE
- BUILDING
- SITE LIGHTING POLE AND FIXTURE
- BUILDING MOUNTED FIXTURE
- 'X' — LUMINAIRE TAG
- 0.0 — CALCULATION POINT
- LIGHT FIXTURE TO BE RELOCATED
- LIGHT FIXTURE TO REMAIN

LIGHTING NOTES

1. PROPERTY LINES AND EXISTING CONDITIONS SHOWN ARE BASED ON A SURVEY MAP ENTITLED "TOPOGRAPHY SURVEY," PREPARED BY INSITE ENGINEERING, SURVEY, AND LANDSCAPE ARCHITECTURE, P.C., LAST REVISED JANUARY 4TH, 2023.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATION AND CODES.
3. ALL PHOTOMETRIC VALUES SHOWN ON SITE PLAN IN TABLES ARE IN FOOTCANDLES (FC). 1 FC = 10.76 LUX.
4. CALCULATED VALUES ARE DERIVED THROUGH A COMPUTER BASED MODEL WITH LIGHT FIXTURE DATA AS SUPPLIED BY MANUFACTURER THROUGH IES FILES.
5. ANY DEVIATION FROM SPECIFIED FIXTURE MODELS AND MOUNTING HEIGHTS IN THIS EXHIBIT WILL DISCOUNT THE VALIDITY OF THESE CALCULATIONS.
6. THE PHOTOMETRIC ANALYSIS EXCLUDES ALL EXISTING PROPOSED OFF SITE STREET LIGHTING AND LANDSCAPE LIGHTING.
7. ALL LUMINAIRE SYMBOLS ARE DIAGRAMMATIC ONLY. CONTRACTOR TO FIELD COORDINATE EXACT LOCATIONS AND SETBACKS AGAINST UNDERGROUND UTILITY AND OTHER OBSTRUCTIONS.
8. ALL SITE LIGHTING POLES TO BE AT MOUNTING HEIGHT OF 20' AND BUILDING MOUNTED LIGHTS TO BE AT MOUNTING HEIGHT OF 15'.
9. PHASE 2 LIGHTING DESIGN TO MATCH PART NUMBERS AND APPROXIMATE LIGHT LEVELS IN PHASE 1.
10. EXISTING FIXTURE AND POLE TO BE RELOCATED FROM PHASE 1 LOCATION TO CORRESPONDING PHASE 2 LOCATION. CONCRETE BASE AT EXISTING LOCATION TO BE DEMOLISHED.
11. PROPOSED FIXTURE SHALL BE MOUNTED ON EXISTING POLE. SHOULD CONTRACTOR BE UNABLE TO DRILL NEW MOUNTING HOLES, A NEW POLE SHOULD BE ORDERED TO FACILITATE DESIGNED INTENT.

DATABANK ORANGEBURG - LIGHTING FIXTURE SCHEDULE

TAG	PRODUCT NUMBER	QUANTITY	MOUNTING STYLE	LAMPS	LUMENS	LLF	WATTS	DESCRIPTION
A	DSX1 LED P4 40K 70CRI T3M HS	29	SINGLE 20FT POLE	LED	11404	0.85	125W	WIDE THROW POLE MOUNTED AREA LIGHT
B	DSX1 LED P4 40K 70CRI T4M	9	BACK-TO-BACK 20FT POLE	LED	(2) 11006	0.85	(2) 125W	DUAL MOUNTED FORWARD THROW POLE MOUNTED AREA LIGHT
C	DSX1 LED P4 40K 70CRI T4M HS	13	SINGLE 20FT POLE	LED	11006	0.85	125W	FORWARD THROW POLE MOUNTED AREA LIGHT
D	DSXW1 LED 20C 700 40K T4M	10	SINGLE 15FT WALL	LED	5342	0.85	46W	FORWARD THROW BUILDING MOUNTED WALLPACK

DATABANK ORANGEBURG - CALCULATION SUMMARY (FC)

	AVERAGE	*MAXIMUM*	*MINIMUM*	*AVG/MIN*	*MAX/MIN*
PH2 - Parking Lot	1.99	4.80	0.90	2.21	5.33
PH2 - Traffic Loop	2.26	4.60	0.80	2.83	5.75
PH2 - Building Sidewalk	1.22	2.40	0.60	2.03	4.00
PH2 - Loading Dock	2.16	3.90	1.20	1.80	3.25
PH2 - LOD	1.30	8.00	0.00	0.00	0.00

GRAPHIC SCALE IN FEET
0 20 40 80

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

Kimley»Horn
New York
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1 NORTH LEXINGTON AVENUE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914-368-9200
WWW.KIMLEY-HORN.COM

DATABANK

STATE OF NEW YORK
DANIEL LO FRISO
No. 090057
LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

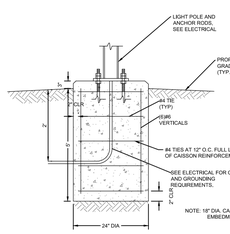
ENLARGED LIGHTING PLAN

DATABANK ORANGEBURG
PHASE 2
2000 CORPORATE DRIVE
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
LT-1.1

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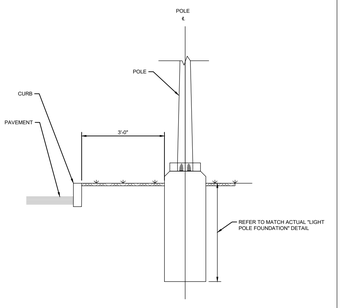


NOTES:

1. THE FOUNDATION IS DESIGNED SPECIFICALLY FOR LIGHT POLE FROM CYCLONE THE LUMINAIRES GROUND INC. PASD-14-SA-TSD-COLOR-TX
2. THE FOUNDATION DETAIL HAS BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3,000 PSF AND LATERAL BEARING PRESSURE OF 150 PSF/FT.
3. THE LIGHT POLE FOUNDATION HAS BEEN DESIGNED FOR A WIND GUST OF 115MPH
4. CONCRETE SHALL REACH A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI AND HAVE AN AIR CONTENT OF 6% ± 1.5%.
5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS INDICATED ON THE DRAWINGS.
6. REINFORCING BARS SHALL COMPLY WITH ASTM A 615, GRADE 60 DEFORMED.
7. COMPACTED FILL SHALL BE TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
8. ALL CONCRETE SHALL BE TESTED TO VERIFY MINIMUM COMPRESSIVE STRENGTH AND AIR CONTENT.

LIGHT POLE FOUNDATION

N.T.S. SOURCE: KIMLEY-HORN



NOTE:

1. SEE ELECTRICAL PLANS FOR WIRE AND GROUNDING REQUIREMENTS
2. ALL CONCRETE BASES TO BE FLUSH TO SURFACES UNLESS OTHERWISE NOTED ON PLANS
3. REFER ALSO TO ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL PLANS FOR ADDITIONAL CONCRETE BASE DETAILS

LIGHT POLE BASE

N.T.S. SOURCE: KIMLEY-HORN



D-Series Size 1
LED Area Luminaire

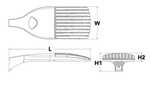
Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Buy American

Specifications

EPA: 1.05 ft² (0.09 m²)
Length: 33" (838 mm)
Width: 15" (381 mm)
Height H1: 7-1/2" (191 mm)
Height H2: 3-1/2"
Weight (max): 27 lbs (12.2 kg)



Introduction

The modern styling of the D-Series is striking yet unobtrusive – making a bold, progressive statement even as it blends seamlessly with its environment. The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED P7 40K T3M MVOLT SPA NLTAIRZ PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	**Forward optics** P1 P4 P7 P2 P5 P8 P3 P6 P9 **Rotated optics** P10² P12² P11 P13²	30K 3000 K 40K 4000 K 50K 5000 K	T1S Type I short (Automotive) T2S Type II short T2M Type II medium T3S Type III short T3M Type III medium T4M Type IV medium TFTM Forward Throw medium	TFTF Type I very short³ T5S Type V short³ T5M Type V medium³ T5W Type V wide³ BLC Backlight control⁴ LCCO Left corner cutoff⁴ RCCO Right corner cutoff⁴	MVOLT⁵ XVOLT (277V-480V)⁵·⁶ 120° 208° 240° 277° 347° 480° **Shipped included** SPA Square pole mounting RPA Round pole mounting⁷ WBA Wall bracket⁷ SPUMBA Square pole universal mounting adaptor⁷ RPUMBA Round pole universal mounting adaptor⁷ **Shipped separately** KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)⁷,⁸

Control options		Other options		Finish (required)	
Shipped installed NLTAIR2 nLight AIR generation 2 enabled⁹ PIRHN Network, high/low motion/ambient sensor¹⁰ PER Network, astro-motion/ambient sensor (controls ordered separately)¹⁰ PER5 Five-pin receptacle only (controls ordered separately)¹¹·¹² PER7 Seven-pin receptacle only (controls ordered separately)¹¹·¹² DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)¹³ DS Dual switching¹⁴·¹⁵·¹⁶	PIR High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 2fc¹⁰·¹⁷ PIRH High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 2fc¹⁰·¹⁷ PIRTFM High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc¹⁰·¹⁷ PIRHTFM 15-30 mounting height, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 1fc¹⁰·¹⁷ FAO Field adjustable output¹⁸·¹⁹	**Shipped installed** HS House-side shield²⁰ SF Single fuse (120, 277, 347V)²¹ DF Double fuse (208, 240 or 480V)²¹·²² LWR Left-rotated optics⁷ RWR Right-rotated optics⁷ HA 50°C ambient operations²³ BAA Buy American(§ 847) compliant **Shipped separately** BS Bird spikes²⁴ EGS External glare shield	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DSATXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white

D-Series Size 1
LED Wall Luminaire

Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Buy American

Specifications

Luminaire

Width: 13-3/4" (34.9 cm)
Depth: 10" (25.4 cm)
Height: 6-3/8" (16.2 cm)
Weight: 12 lbs (5.4 kg)

Back Box (BBW, E20WC)

Width: 13-3/4" (34.9 cm) **BBW Weight:** 5 lbs (2.3 kg)
Depth: 4" (10.2 cm) **E20WC Weights:** 10 lbs (4.5 kg)
Height: 6-3/8" (16.2 cm)



Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED

Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)⁷	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium	MVOLT¹ 120¹ 208¹·² 240¹ 277¹ 347¹·³ 480¹·³	Shipped included (blank) Surface mounting bracket BBW Surface mounted back box (for conduit entry)⁴ PBBW(18) Premium mounting height, ambient sensor enabled at 18'–20' mounting height⁵ E20WC Emergency battery backup (includes external component enclosure), 0 W (for all options)⁶	Shipped included PE Photoelectric cell, button type⁷ DMG 0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately) PIR 180° motion/ambient light sensor, 8–15' mtg ht.⁸·⁹ PIRH 180° motion/ambient light sensor, 15–30' mtg ht.⁸·⁹ PIRTFM Motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc.⁸·⁹

Other Options		Finish (required)			
Shipped installed SF Single fuse (120, 277 or 347V)¹·⁴ DF Double fuse (208, 240 or 480V)¹·⁴ HS House-side shield⁴ SPD Separate surge protector⁴	**Shipped separately**⁴ BSW Bird-deterrent spikes WG Vertical guard DDL Diffused drop lens	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum	DSSND Sandstone DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum	DWHGXD Textured white DSSTXD Textured sandstone	

Accessories
Ordered and shipped separately.

DSXW1LA Square pole bracket adaptor (specify finish)⁴
DSXW1KA Round pole bracket adaptor (specify finish)⁴

NOTES

1. 347, 480 is not available with PE, PBR, PIRTFC3V or PIRHTFC3V.
2. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
3. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
4. Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
5. Not available with E20WC. Must be ordered with fixture. Requires an external antenna, ordered as an accessory.
6. Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
7. Reference Motion Sensor table on page 3.
8. Reference Motion Sensor table on page 3. Not compatible with corelink entry applications. Not available with BBW mounting option. Not available with fusing. Not available with SPD. 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com.
9. Not available with SPD.
10. Not available with E20WC.
11. Also available as a separate accessory; see Accessories information.
12. Not available with E20WC.

NO.	DESCRIPTION	DATE
4	ISSUED FOR TOWN OF ORANGETOWN REVIEW	05/15/2025
3	ISSUED FOR TOWN OF ORANGETOWN REVIEW	11/18/2024
2	ISSUED FOR PRICING	08/20/2024
1	ISSUED FOR PRC REVIEW	06/12/2024

FOR PERMIT REVIEW

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DATABANK

STATE OF NEW YORK DANIEL LO FRISO 109067 LICENSED PROFESSIONAL ENGINEER
05/15/2025

KHA PROJECT	112578002
DATE	06/12/2024
SCALE:	AS SHOWN
DESIGNED BY:	TAS
DRAWN BY:	KC
CHECKED BY:	DL

LIGHTING DETAILS

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ORANGEBURG, NY 10962
TOWN OF ORANGETOWN NEW YORK

SHEET NUMBER
LT-1.2

Saved Tuesday, May 6, 2025 5:20:25 PM KITTY CHEN Plotted Thursday, May 15, 2025 8:20:34 AM Sudeth, Trent

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