GENERAL NOTES

1. TAX MAP IDENTIFICATION NUMBER: SECTION 1, BLOCK 1, LOT 6
2. TOTAL AREA OF SUBJECT PARCEL: 77.95± ACRES.
3. BOUNDARY AND PLANIMETRIC INFORMATION BASED UPON FIELD SURVEY AS PERFORMED BY ENGINEERING & SURVEYING PROPERTIES, PC ON OCTOBER 17, 2018.
4. THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES PC, FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEMS) AS DERIVED FROM 2012 SOURCE LIDAR. THE DEMS WERE PROVIDED BY NYS.GIS.GOV AND CORRESPOND TO ACTUAL SURVEY OBSERVATIONS TAKEN IN THE FIELD. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
5. THE ADJACENT PROPERTY BOUNDARIES ARE BASED UPON DEED PLOTS AND ARE APPROXIMATE AS THE NEIGHBORING PROPERTIES HAVE NOT BEEN SURVEYED.
6. THE WETLANDS SHOWN HEREON WERE FIELD DELINEATED BY PETER TORGERSEN ON AUGUST 9, 2018 AND LOCATED BY ENGINEERING & SURVEYING PROPERTIES, PC.
7. OWNER/ APPLICANT: REAL DEAL MANAGEMENT
   1 INTERNATIONAL BOULEVARD, SUITE 410
   MAHWAH, NJ 17430
8. ALL PROPOSED USES SHALL BE SERVICED BY INDIVIDUAL WELLS AND SEPTICS.
9. PROPOSED USE: WAREHOUSE(S)

HOURS OF OPERATION	MONDAY - FRIDAY	WEEKENDS
INTERNAL TO BUILDING	12:00AM - 12:00AM	12:00AM - 12:00AM
DELIVERIES (IN & OUT)	6:00AM - 9:00PM	7:00AM - 7:00PM

10. THE PROJECT SITE LIES WITHIN THE ORANGE COUNTY AIRPORT OVERLAY DISTRICT.
11. SECTION 150-22.B(24) ALLOWS FOR A PORTION OF THE REQUIRED PARKING SPACES TO BE PLACED IN RESERVE (LANDBANKED). THE LANDBANKED PARKING SHALL BE CONSTRUCTED UPON RECEIPT OF WRITTEN NOTICE FROM THE TOWN OF HAMPTONBURGH CODE ENFORCEMENT.
12. THERE SHALL BE NO WASHING / CLEANING OF VEHICLES (TRACTOR TRAILERS) WITHIN THE LOADING AREAS OR ANYWHERE ON SITE.
13. DUE TO THE PROXIMITY OF THE PROJECT SITE TO A KNOWN INDIANA BAT HIBERNACULUM, POTENTIAL INDIANA BAT ROOST TREES SHALL ONLY BE CUT AND REMOVED DURING KNOWN HIBERNATION MONTHS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 1ST.
14. THE BUILDING ON LOT 2 MUST HAVE AN AUTOMATIC FIRE SPRINKLER SYSTEM WHICH MUST BE APPROVED BY THE TOWN OF HAMPTONBURGH FIRE MARSHAL PRIOR TO ISSUANCE OF A BUILDING PERMIT FOR LOT 2.
15. THE APPLICANT SHALL BE RESPONSIBLE FOR ALL NEELYTOWN ROAD IMPROVEMENTS AS SHOWN ON SHEETS C-401 – c-404 WHICH SHALL BE COMPLETED PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR THE FIRST BUILDING CONSTRUCTED.
16. PRIOR TO INSTALLATION OF THE PETROMAT AND ASPHALT OVERLAY, A SITE VISIT WITH THE DESIGN ENGINEER, TOWN ENGINEER, AND TOWN OF HAMPTONBURGH HIGHWAY SUPERINTENDENT SHALL OCCUR TO WALK THE WESTERN EDGE OF NEELYTOWN ROAD TO DETERMINE ANY AREAS OF BROKEN PAVEMENT EDGES, POTHOLES, ETC. THAT WILL BE REQUIRED TO BE SAWCUT AND REMOVED.
17. ALL CATCHBASINS ONSITE SHALL HAVE A FLOGARD+PLUS CATCHBASIN INSERT FILTER (OR APPROVED EQUAL) INSTALLED.
18. THE USE OF FERTILIZERS, PESTICIDES, HERBICIDES AND/OR INSECTICIDES SHALL BE PROHIBITED ANYWHERE ON SITE.
19. ANY OUTDOOR STORAGE OF PETROLEUM PRODUCTS SHALL PROHIBITED.
20. ANY COMMERCIAL GENERATION, STORAGE OR DISPOSAL OF ANY HAZARDOUS WASTE SHALL BE PROHIBITED.
21. ANY OUTDOOR STORAGE OF ROAD SALT OR DEICING AGENT SHALL BE PROHIBITED. ADDITIONALLY, SIGNAGE REFLECTING THIS PROHIBITION SHALL BE PROMINENTLY DISPLAYED IN ALL PARKING AND LOADING AREAS ON SITE.
22. THE USE OF PURE SALT FOR DEICING IS PROHIBITED. A SAND & SALT MIXTURE MAY BE UTILIZED ON THE ROADWAYS, PARKING AND LOADING AREAS. THE SAND AND SALT MIXTURE MUST CONTAIN A MINIMUM OF 60% SAND.

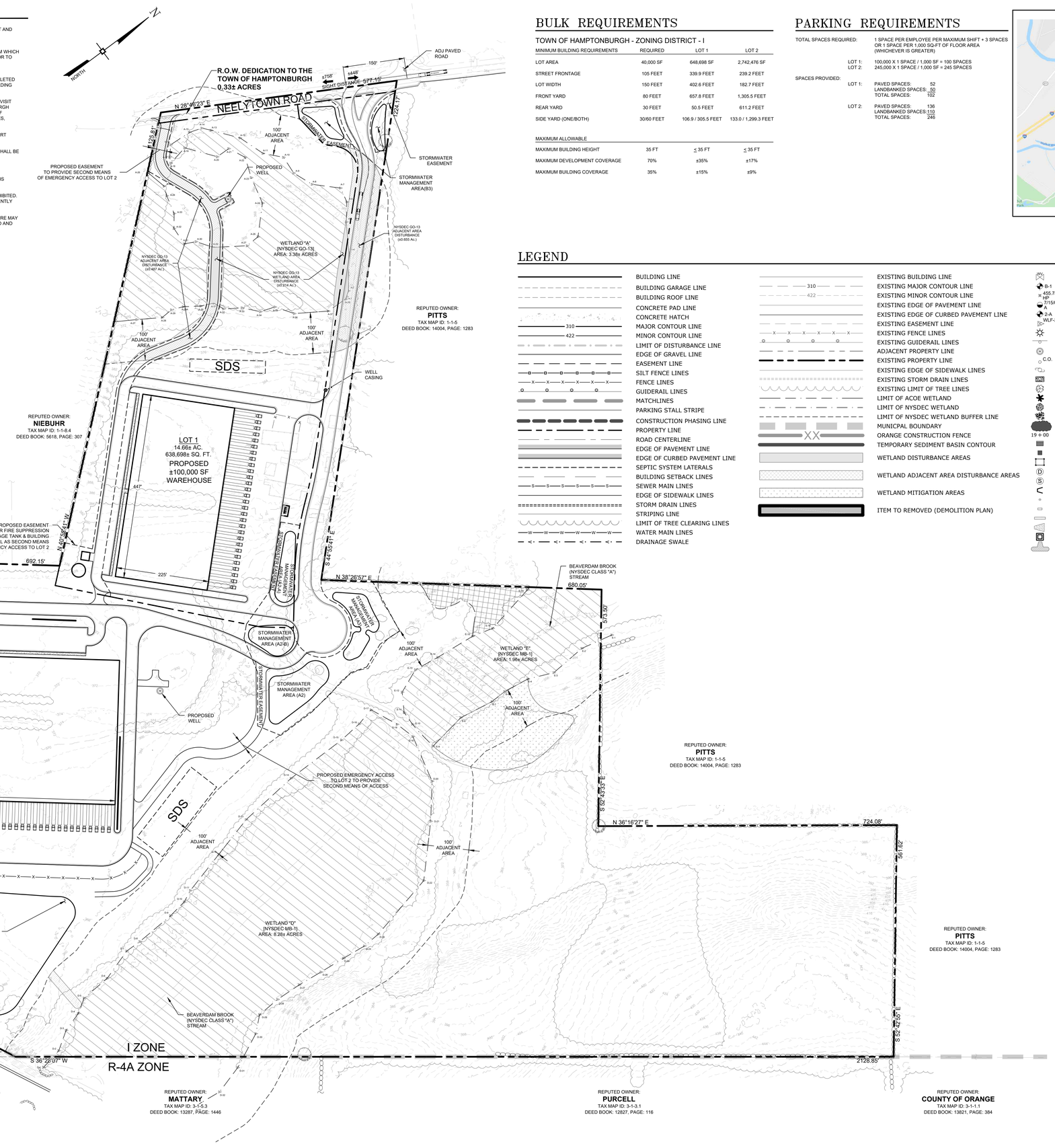
LIST OF SITE PLAN DRAWINGS

DRAWING #	TITLE	SHEET #
C-100	OVERALL PLAN	1
C-100	EXISTING CONDITIONS AND DEMOLITION PLAN	2
C-101	SITE PLAN	3
C-102	SITE PLAN	4
C-103	SITE PLAN	5
C-104	SITE PLAN	6
C-105	OVERALL GRADING & UTILITY PLAN	7
C-106	GRADING & UTILITY PLAN	8
C-107	GRADING & UTILITY PLAN	9
C-108	GRADING & UTILITY PLAN	10
C-109	GRADING & UTILITY PLAN	11
C-110	OVERALL PHASING PLAN	12
C-111	PHASE 1 EROSION CONTROL PLAN	13
C-112	PHASE 2 EROSION CONTROL PLAN	14
C-113	PHASE 3 EROSION CONTROL PLAN	15
C-114	PHASE 3 EROSION CONTROL PLAN	16
C-201	PRIVATE ROAD PROFILE	17
C-301	DETAILS	18
C-302	DETAILS	19
C-303	DETAILS	20
C-304	DETAILS	21
C-305	DETAILS	22
C-306	DETAILS	23
C-401	NEELYTOWN ROAD IMPROVEMENT PLAN	24
C-402	NEELYTOWN ROAD IMPROVEMENT PLAN	25
C-403	NEELYTOWN ROAD IMPROVEMENT PLAN	26
C-404	NEELYTOWN ROAD IMPROVEMENT DETAILS	27

DRAWINGS PREPARED BY OTHERS:

LANDSCAPE PLANS BY STEVEN T. ESPOSITO, RLA, ESPOSITO & ASSOCIATES

L-1	LANDSCAPING PLAN
L-2	LANDSCAPING & WETLAND MITIGATION PLAN
L-3	LANDSCAPING PLAN & DETAILS
L-4	LANDSCAPING PLAN & DETAILS



BULK REQUIREMENTS

TOWN OF HAMPTONBURGH - ZONING DISTRICT - I

MINIMUM BUILDING REQUIREMENTS	REQUIRED	LOT 1	LOT 2
LOT AREA	40,000 SF	648,698 SF	2,742,476 SF
STREET FRONTAGE	105 FEET	339.9 FEET	239.2 FEET
LOT WIDTH	150 FEET	402.6 FEET	182.7 FEET
FRONT YARD	80 FEET	657.8 FEET	1,305.5 FEET
REAR YARD	30 FEET	50.5 FEET	611.2 FEET
SIDE YARD (ONE/BOTH)	30/60 FEET	106.9 / 305.5 FEET	133.0 / 1,299.3 FEET
MAXIMUM ALLOWABLE			
MAXIMUM BUILDING HEIGHT	35 FT	≤ 35 FT	≤ 35 FT
MAXIMUM DEVELOPMENT COVERAGE	70%	±35%	±17%
MAXIMUM BUILDING COVERAGE	35%	±15%	±9%

PARKING REQUIREMENTS

TOTAL SPACES REQUIRED: 1 SPACE PER EMPLOYEE PER MAXIMUM SHIFT + 3 SPACES OR 1 SPACE PER 1,000 SQ-FT OF FLOOR AREA (WHICHEVER IS GREATER)

LOT 1: 100,000 X 1 SPACE / 1,000 SF = 100 SPACES
LOT 2: 245,000 X 1 SPACE / 1,000 SF = 245 SPACES

SPACES PROVIDED:

LOT 1:	PAVED SPACES:	52
	LANDBANKED SPACES:	50
	TOTAL SPACES:	102
LOT 2:	PAVED SPACES:	136
	LANDBANKED SPACES:	110
	TOTAL SPACES:	246



LOCATION MAP

LEGEND

- BUILDING LINE
- BUILDING GARAGE LINE
- BUILDING ROOF LINE
- CONCRETE PAD LINE
- CONCRETE HATCH
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- LIMIT OF DISTURBANCE LINE
- EDGE OF GRAVEL LINE
- EASEMENT LINE
- SILT FENCE LINES
- FENCE LINES
- GUIDERAIL LINES
- MATCHLINES
- PARKING STALL STRIPE
- CONSTRUCTION PHASING LINE
- PROPERTY LINE
- ROAD CENTERLINE
- EDGE OF PAVEMENT LINE
- EDGE OF CURBED PAVEMENT LINE
- SEPTIC SYSTEM LATERALS
- BUILDING SETBACK LINES
- SEWER MAIN LINES
- EDGE OF SIDEWALK LINES
- STORM DRAIN LINES
- STRIPING LINE
- LIMIT OF TREE CLEARING LINES
- WATER MAIN LINES
- DRAINAGE SWALE

- EXISTING BUILDING LINE
- EXISTING MAJOR CONTOUR LINE
- EXISTING MINOR CONTOUR LINE
- EXISTING EDGE OF PAVEMENT LINE
- EXISTING EDGE OF CURBED PAVEMENT LINE
- EXISTING EASEMENT LINE
- EXISTING FENCE LINES
- EXISTING GUIDERAIL LINES
- ADJACENT PROPERTY LINE
- EXISTING PROPERTY LINE
- EXISTING EDGE OF SIDEWALK LINES
- EXISTING STORM DRAIN LINES
- EXISTING LIMIT OF TREE LINES
- LIMIT OF ACOE WETLAND
- LIMIT OF NYSDEC WETLAND
- LIMIT OF NYSDEC WETLAND BUFFER LINE
- MUNICPAL BOUNDARY
- ORANGE CONSTRUCTION FENCE
- TEMPORARY SEDIMENT BASIN CONTOUR
- WETLAND DISTURBANCE AREAS
- WETLAND ADJACENT AREA DISTURBANCE AREAS
- WETLAND MITIGATION AREAS
- ITEM TO REMOVED (DEMOLITION PLAN)

- WATER MAIN GATE VALVE
- B-1 BORING LOCATION
- 655.78 MP SPOT GRADE ELEVATION
- 7/15/03 PERC TEST LOCATION
- DHA DEEP TEST HOLE LOCATION
- WLF-25 WETLAND FLAG LOCATION AND DESIGNATION
- LIGHT POLE
- SIGN & POST
- WELL LOCATION
- C.O. SEWER CLEANOUT
- UTILITY POLE
- STONE CHECK DAM
- DECIDUOUS TREE LANDSCAPE SYMBOL
- EVERGREEN TREE LANDSCAPE SYMBOL
- SHRUB PLANTING LANDSCAPE SYMBOL
- SHRUB PLANTING LANDSCAPE SYMBOL
- GROUND COVER LANDSCAPE SYMBOL (HATCH 155)
- 19+00 ROAD STATIONING LABEL
- CATCH BASIN
- YARD DRAIN
- FILTER FABRIC DROP INLET PROTECTION
- D STORM DRAINAGE MANHOLE
- S SEWER MANHOLE
- STORM DRAINAGE PIPE END SECTION
- 6 HOLE DROP BOX
- 12 HOLE DISTRIBUTION BOX
- 20 HOLE DISTRIBUTION BOX
- END SECTION RIP-RAP OUTLET PROTECTION
- POND OUTLET STRUCTURE
- END SECTION RIP-RAP LEVEL SPREADER OUTLET

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	1	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080023

100 0 50 100 200
1 inch = 100 ft.

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OVERALL PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE:	SCALE:	O-100
01/23/19	1" =100'	
REVISION:	TAX LOT:	
12 - 08/16/2021	1-1-6	

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DEMOLITION NOTES

1. PRIOR TO ANY SITE WORK INCLUDING DEMOLITION OF ANY STRUCTURE, A BUILDING PERMIT SHALL BE APPLIED FOR AND OBTAINED FROM THE TOWN OF HAMPTONBURGH BUILDING DEPARTMENT.

2. THIS PLAN DOES NOT DEPICT ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. ENGINEERING & SURVEYING PROPERTIES, PC HAS NOT PERFORMED EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF THE POTENTIAL FOR CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF THE SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LAWS AND REGULATIONS.

3. IT IS RECOMMENDED THAT ALL BUILDING DEMOLITION BE COMPLETED BY NYS LICENSED ASBESTOS ABATEMENT CONTRACTOR. ALL PROCEDURES FOR BUILDING DEMOLITION MUST FOLLOW PART 56 OF TITLE 12 OF THE OFFICIAL COMPILATION OF CODES, RULES AND REGULATIONS OF THE STATE OF NEW YORK (CITED AS 12 NYCRR PART 56).

4. THE CONTRACTOR SHALL PROTECT AND REPAIR ALL EXISTING CONDITIONS, STRUCTURES,ETC. DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.

5. CONTRACTOR ACCESS TO THE SITE FOR DEMOLITION PURPOSES SHALL BE VIA THE EXISTING GRAVEL DRIVEWAY.

6. ALL CONSTRUCTION WASTE SHALL BE REMOVED THROUGH THE USE OF DUMPSTERS AND/OR ROLLOFFS. ALL DUMPSTERS/ROLLOFFS SHALL BE LOCATED ONLY IN AREAS AS SHOWN ON THIS PLAN.

7. ALL CONSTRUCTION VEHICLES SHALL ADHERE TO LOCAL TRAFFIC REGULATIONS

8. ALL CONSTRUCTION ACTIVITIES SHALL OCCUR IN A MANNER IN COMPLIANCE WITH ALL TOWN OF HAMPTONBURGH REGULATIONS.

9. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR IS REQUIRED TO CALL FOR UTILITY MARKOUT PRIOR TO ANY EXCAVATION, DRILLING, ETC. THE CONTRACTOR SHALL CONTACT DIG SAFE, NEW YORK, 1-800-962-7962. A PRE-DEMOLITION CONFERENCE SHOULD BE ARRANGED WITH DIG SAFE, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.

10. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT. ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL O.S.H.A. AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.

11. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING PRIOR TO THE START OF DEMOLITION.

12. ALL DEMOLITION DEBRIS TO BE REMOVED FROM THE SITE BY THE CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

13. ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO THE ENGINEERING IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.

14. PRIOR TO STARTING ANY DEMOLITION THE CONTRACTOR IS RESPONSIBLE FOR/TO:
    a. ENSURING COPIES OF ALL PERMITS AND APPROVALS ARE OBTAINED AND MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW FOR THE ENTIRE DURATION OF ALL WORK.
    b. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO ANY SITE DISTURBANCE AND/OR BUILDING DEMOLITION.
    c. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
    d. PROTECTING AND MAINTAINING IN OPERATION, ANY ACTIVE UTILITY SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
    e. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.

15. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR ANY REMEDIATION OF UNKNOWN OR UNDOCUMENTED EXISTING ENVIRONMENTAL CONDITIONS FOUND.

16. THE ENGINEER OR ENGINEER'S FIRM OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.

17. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIR SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.

18. THE CONTRACTOR SHALL PERFORM EARTH MOVEMENT ACTIVITIES, DEMOLITION AND REMOVAL OF ALL FOUNDATION WALLS, FOOTING, AND OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE IN ACCORDANCE WITH ALL PLANS, NOTES, AND SPECIFICATIONS.

19. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS NECESSARY OR AT THE DIRECTION OF THE ENGINEER AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.

20. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. NO STREET CLOSURE PERMITS WILL BE PERMITTED.

21. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.

22. USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, ADJACENT STRUCTURES AND IMPROVEMENTS SHALL BE CLEANED OF ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR 'PRE-DEMOLITION" CONDITION.

23. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE AND FEDERAL LAWS AND APPLICABLE CODES.

24. DEMOLITION SHALL NOT PROCEED UNTIL THE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLE SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE TOWN.

25. CONTRACTOR IS RESPONSIBLE TO SEED AND MULCH ALL DISTURBED SITE AREAS AS DIRECTED BY THE OWNER AND/OR ENGINEER.

26. PROTECT ALL EXISTING DRAINAGE SWALES, WETLANDS, AND UTILITIES DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.

27. NOISE DURING DEMOLITION SHALL BE CONTROLLED PER MUNICIPAL CODE AND AS OUTLINED BELOW AT A MINIMUM
    A. CONTRACTORS WILL BE REQUIRED TO USE EQUIPMENT WITH MUFFLERS, ON-BOARD SHIELDS, EXHAUST SILENCERS, AND ANY OTHER SOUND REDUCTION EQUIPMENT MAINTAINED TO THEIR ORIGINAL SPECIFICATION
    B. AIR COMPRESSORS SHALL HAVE CRITICAL ENVIRONMENTAL SILENCERS WITH MAXIMUM NOISE ATTENUATION. EQUIPMENT WITH THE LOWEST NOISE RATING WILL BE SELECTED TO ACCOMPLISH EACH TASK.
    C. EQUIPMENT MAY NOT IDLE WHEN NOT IN USE.
    D. ANY EQUIPMENT FOR WHICH THERE IS A CHOICE OF LOCATIONS, SUCH AS ELECTRICAL GENERATORS AND AIR COMPRESSORS, WILL BE SITUATED AS FAR AS POSSIBLE FROM THE ADJACENT RESIDENTIAL PROPERTIES.
    E. LOOSE ENGINE PARTS OR OTHER PARTS WITH LOOSE OR MISSING SCREWS, BOLTS OR METAL PLATES MUST BE REPAIRED SO THAT VIBRATION AND NOISE GENERATION WILL BE MINIMIZED.

28. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE, TERMINATE AND REMOVE ALL UTILITY SERVICES (INCLUDING BUT NOT LIMITED TO ELECTRIC, WATER (WELL), & SEPTIC) FOR THE EXISTING STRUCTURES IN ACCORDANCE WITH THE STANDARDS AND PERMITING REQUIREMENTS OF THE JURISDICTIONAL UTILITY PROVIDER.

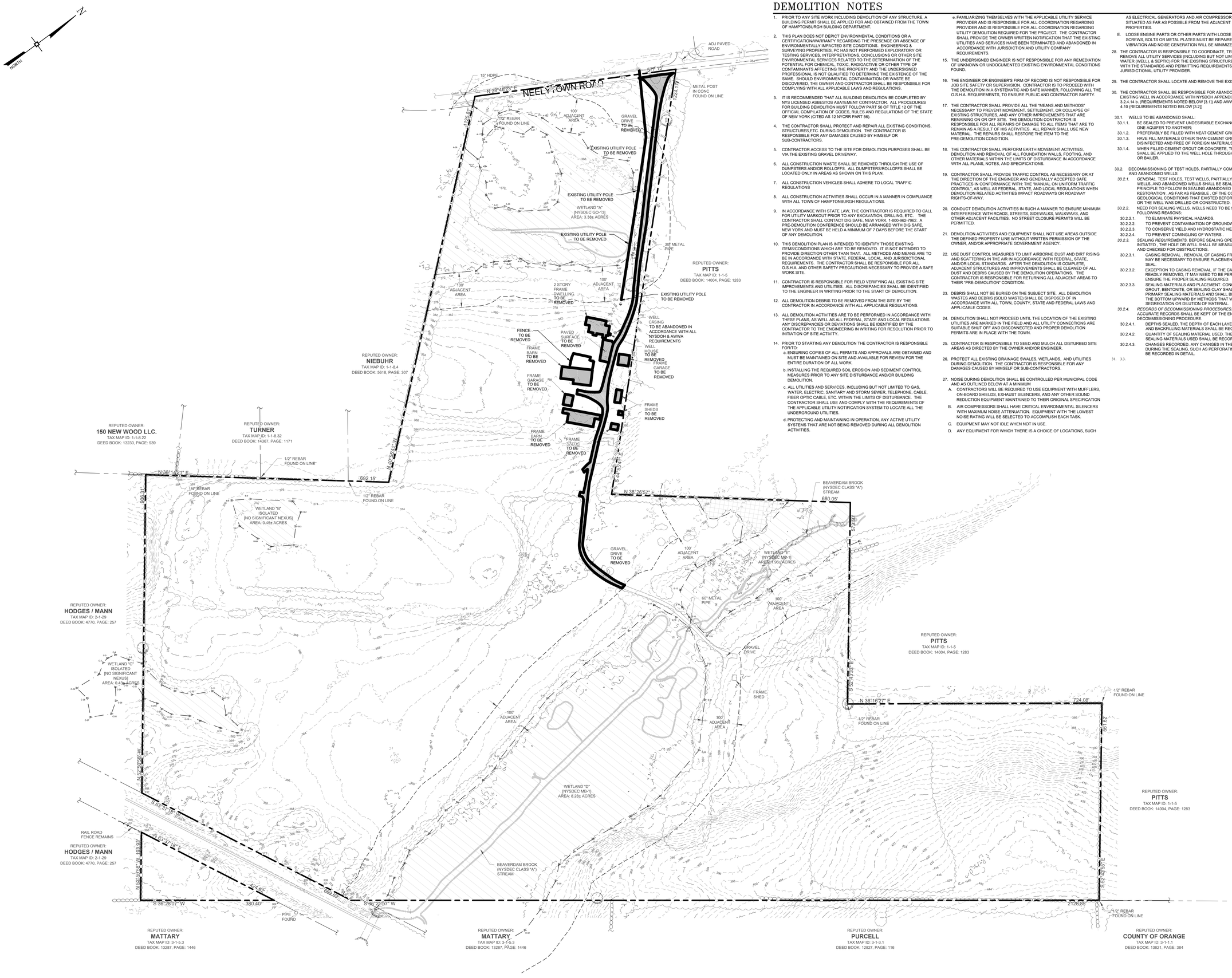
29. THE CONTRACTOR SHALL LOCATE AND REMOVE THE EXISTING SEPTIC TANK.

30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABANDONMENT OF THE EXISTING WELL IN ACCORDANCE WITH NYSDOH APPENDIX 5-A SECTION 3.2.4.14 b. (REQUIREMENTS NOTED BELOW {3.1}) AND AWWA A100-97 SECTION 4.10 (REQUIREMENTS NOTED BELOW {3.2})

    30.1. WELLS TO BE ABANDONED SHALL;
    30.1.1. BE SEALED TO PREVENT UNDESIRABLE EXCHANGE OF WATER FROM ONE AQUIFER TO ANOTHER;
    30.1.2. PREFERABLY BE FILLED WITH NEAT CEMENT GROUT;
    30.1.3. HAVE FILL MATERIALS OTHER THAN CEMENT GROUT OR CONCRETE, DISINFECTED AND FREE OF FOREIGN MATERIALS; AND
    30.1.4. WHEN FILLED CEMENT GROUT OR CONCRETE, THESE MATERIALS SHALL BE APPLIED TO THE WELL HOLE THROUGH A PIPE, TREMIE, OR BAILER.

    30.2. DECOMMISSIONING OF TEST HOLES, PARTIALLY COMPLETED WELLS, AND ABANDONED WELLS
    30.2.1. *GENERAL.* TEST HOLES, TEST WELLS, PARTIALLY COMPLETED WELLS, AND ABANDONED WELLS SHALL BE SEALED. THE GUIDING PRINCIPLE TO FOLLOW IN SEALING ABANDONED WELLS IS THE RESTORATION, AS FAR AS FEASIBLE, OF THE CONTROLLING GEOLOGICAL CONDITIONS THAT EXISTED BEFORE THE TEST HOLE OR THE WELL WAS DRILLED OR CONSTRUCTED.
    30.2.2. NEED FOR SEALING WELLS. WELLS NEED TO BE SEALED FOR THE FOLLOWING REASONS:
    30.2.2.1. TO ELIMINATE PHYSICAL HAZARDS.
    30.2.2.2. TO PREVENT CONTAMINATION OF GROUNDWATER.
    30.2.2.3. TO CONSERVE YIELD AND HYDROSTATIC HEAD OF AQUIFERS.
    30.2.2.4. TO PREVENT COMINGLING OF WATERS.
    30.2.3. *SEALING REQUIREMENTS.* BEFORE SEALING OPERATIONS ARE INITIATED, THE HOLE OR WELL SHALL BE MEASURED FOR DEPTH AND CHECKED FOR OBSTRUCTIONS.
    30.2.3.1. CASING REMOVAL. REMOVAL OF CASING FROM SOME WELLS MAY BE NECESSARY TO ENSURE PLACEMENT OF AN EFFECTIVE SEAL.
    30.2.3.2. EXCEPTION TO CASING REMOVAL. IF THE CASING CANNOT BE READILY REMOVED, IT MAY NEED TO BE PERFORATED TO ENSURE THE PROPER SEALING REQUIRED.
    30.2.3.3. SEALING MATERIALS AND PLACEMENT. CONCRETE, CEMENT GROUT, BENTONITE, OR SEALING CLAY SHALL BE USED AS PRIMARY SEALING MATERIALS AND SHALL BE PLACED FROM THE BOTTOM UPWARD BY METHODS THAT WILL AVOID SEGREGATION OR DILUTION OF MATERIAL.
    30.2.4. *RECORDS OF DECOMMISSIONING PROCEDURES.* COMPLETE, ACCURATE RECORDS SHALL BE KEPT OF THE ENTIRE DECOMMISSIONING PROCEDURE.
    30.2.4.1. DEPTHS SEALED. THE DEPTH OF EACH LAYER OF ALL SEALING AND BACKFILLING MATERIALS SHALL BE RECORDED.
    30.2.4.2. QUANTITY OF SEALING MATERIAL USED. THE QUANTITY OF SEALING MATERIALS USED SHALL BE RECORDED.
    30.2.4.3. CHANGES RECORDED. ANY CHANGES IN THE WELL MADE DURING THE SEALING, SUCH AS PERFORATING CASING, SHALL BE RECORDED IN DETAIL.

31. 3.3.



No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	2	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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100 0 50 100 200
1 inch = 100 ft.

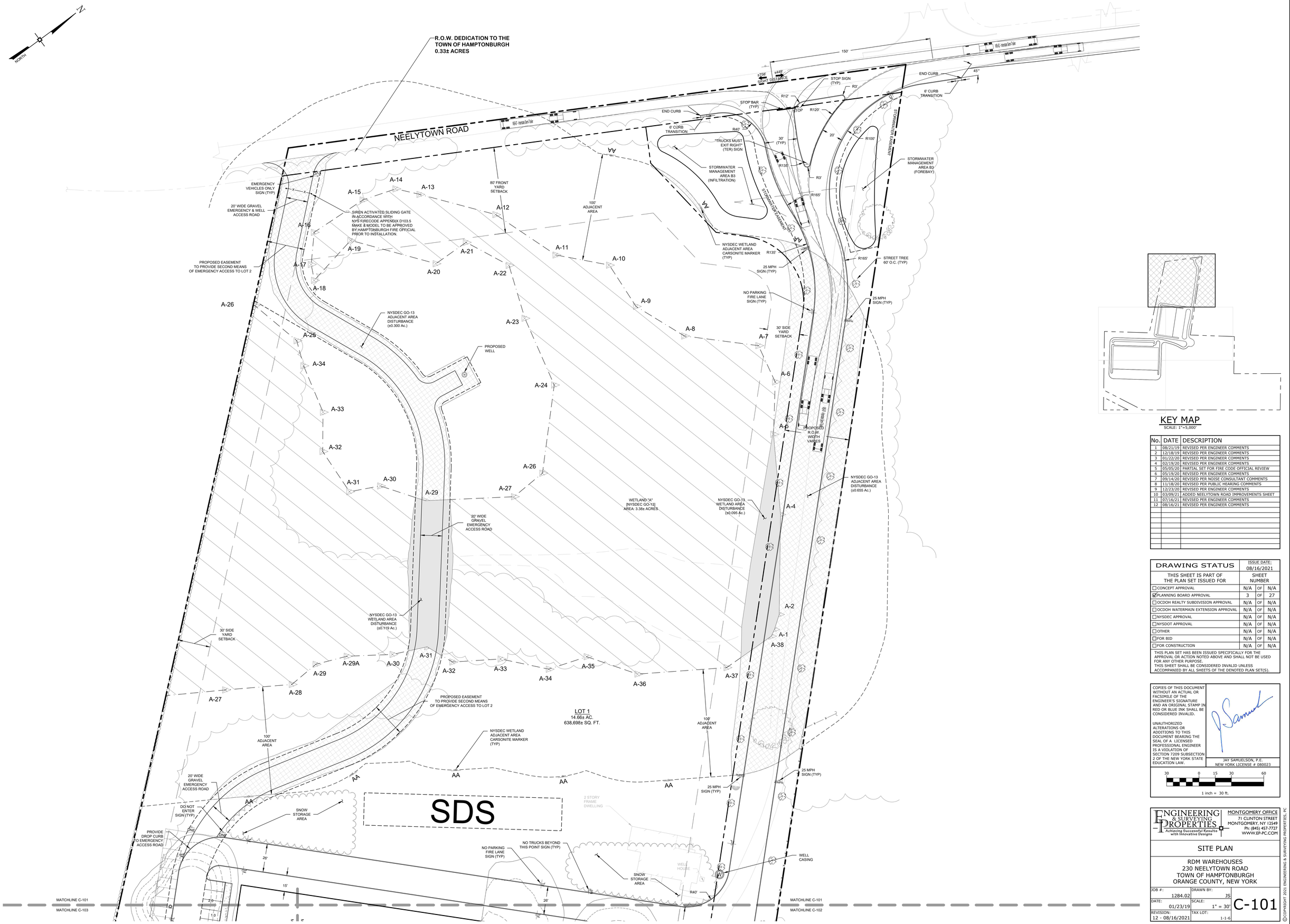
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EXISTING CONDITIONS & DEMOLITION PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE: 01/23/19	SCALE: 1" =100'	C-100
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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KEY MAP

SCALE: 1"=5,000'

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12	08/16/21	REVISED PER ENGINEER COMMENTS

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☑ PLANNING BOARD APPROVAL	3	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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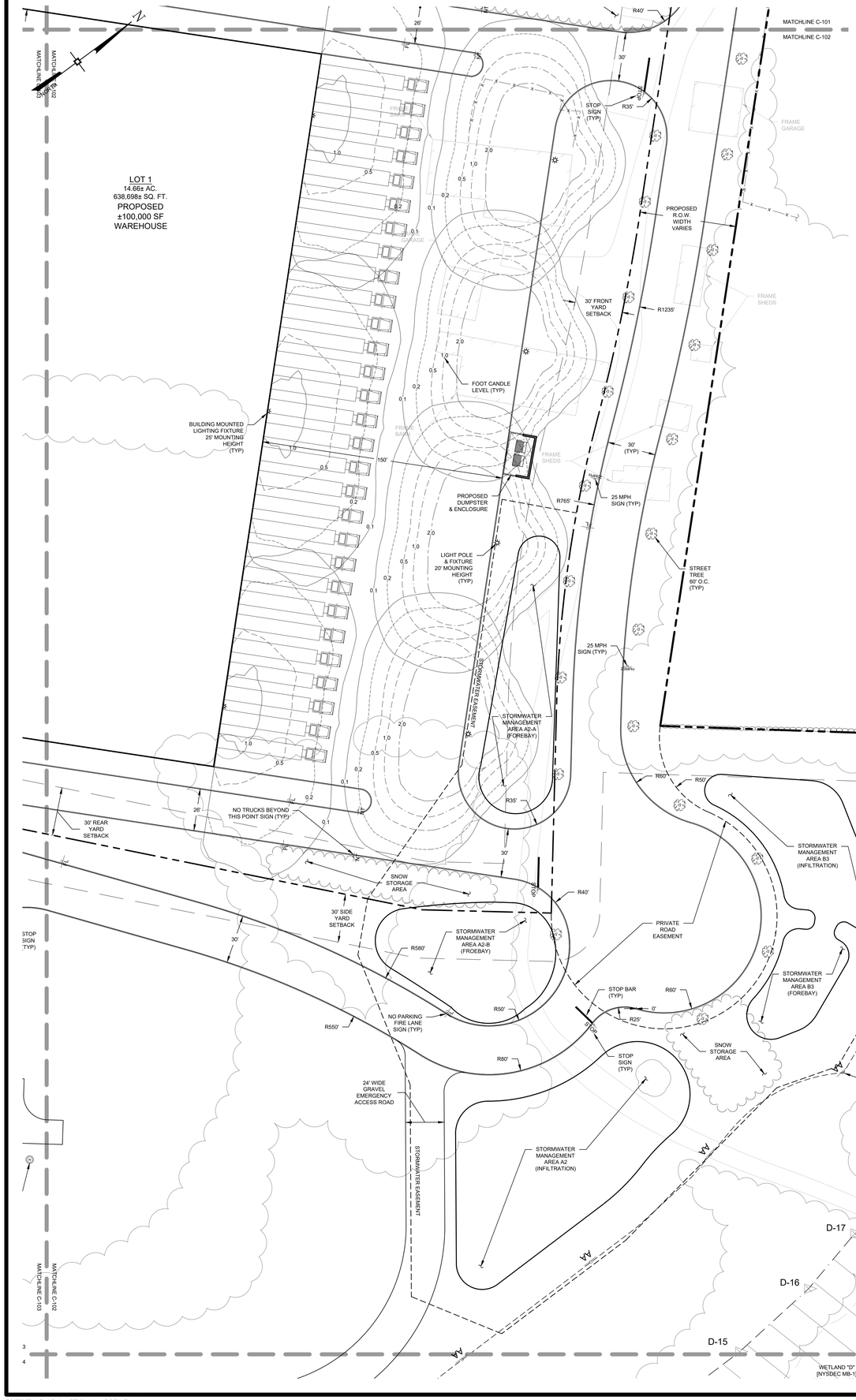
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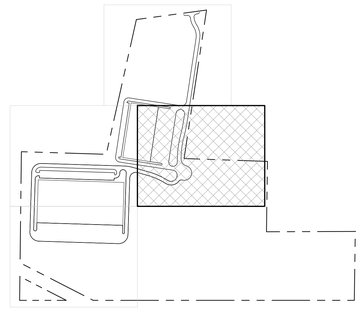
SITE PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE:	SCALE:	C-101
01/23/19	1" = 30'	
REVISION:	TAX LOT:	
12 - 08/16/2021	1-1-6	

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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
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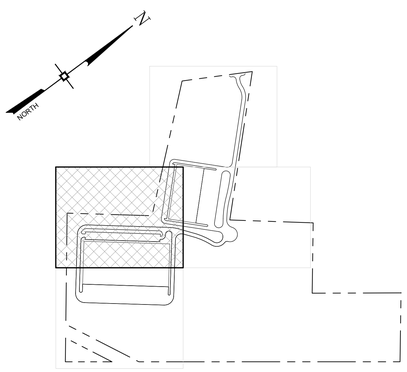
SITE PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	1284.02	DRAWN BY:	JS	C-102
DATE:	01/23/19	SCALE:	1" = 30'	
REVISION:	12 - 08/16/2021	TAX LOT:	1-1-6	

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Z:\1284.02 - Red Dog - 230 Neelytown Rd\Site Plan.dwg
Date Printed: Aug 13, 2021, 11:07am



KEY MAP
SCALE: 1"=5,000'

MATCHLINE C-101
MATCHLINE C-103
MATCHLINE C-102
MATCHLINE C-103

FOOT CANDLE LEVEL (TYP)
6' WIDE SIDEWALK (TYP)
NO PARKING FIRE LANE SIGN (TYP)
ADA ONLY PARKING SIGN (TYP)
LANDBANKED PARKING (TYP)
5.5' SIDEWALK (TYP)
9' (TYP)
PROPOSED EASEMENT FOR FIRE SUPPRESSION STORAGE TANK & BUILDING AS WELL AS SECOND MEANS OF EMERGENCY ACCESS TO LOT 2
30' SIDE YARD SETBACK
LIGHT POLE & FIXTURE 15' MOUNTING HEIGHT (TYP)
±207'x20' SINGLE STORY FIRE PUMP BUILDING
136,000 GALLON FIRE PROTECTION WATER TANK. 30'-6" TALL, 33' DIAM.
SNOW STORAGE AREA
NO PARKING FIRE LANE SIGN (TYP)
PROVIDE DROP CURB TO EMERGENCY ACCESS ROAD
DO NOT ENTER SIGN (TYP)

LOT 1
14.66± AC.
638,698± SQ. FT.
EXIST USE:
±100,000 SF
WAREHOUSE

B-9 B-8 B-1 B-2 B-3 B-4 B-5 B-6 B-7

WETLAND "B" ISOLATED (NO SIGNIFICANT NEXUS) AREA: 0.45± ACRES
LIGHT POLE & FIXTURE 20' MOUNTING HEIGHT (TYP)
LANDBANKED PARKING (TYP)
PROPOSED MSE (KEYSTONE) RETAINING WALL
20' WIDE GRAVEL EMERGENCY ACCESS ROAD
STOP BAR (TYP)
STOP
STOP SIGN (TYP)
SNOW STORAGE AREA
R45'
R75'
R25'
R50'
30' SIDE YARD SETBACK
6' WIDE SIDEWALK (TYP)
ADA ONLY PARKING SIGN (TYP)
FOOT CANDLE LEVEL (TYP)
FIRE LANE
NO PARKING
PROPOSED GRAVEL WELL ACCESS ROAD
PROPOSED WELL

LOT 2
62.96± AC.
2,742,476± SQ. FT.
PROPOSED
±245,000 SF
WAREHOUSE

MATCHLINE C-103
MATCHLINE C-104
MATCHLINE C-102
MATCHLINE C-103

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
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☑ PLANNING BOARD APPROVAL	5	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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30 0 15 30 60
1 inch = 30 ft.

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SITE PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE: 01/23/19	SCALE: 1" = 30'	C-103
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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NORTH

MATCHLINE C-103
MATCHLINE C-104

LOT 2
62.96± AC.
2,742,476± SQ. FT.
PROPOSED
±245,000 SF
WAREHOUSE

BUILDING MOUNTED LIGHTING FIXTURE 25' MOUNTING HEIGHT (TYP)

PROPOSED MSE (KEYSTONE) RETAINING WALL

24' WIDE GRAVEL EMERGENCY ACCESS ROAD

NO PARKING FIRE LANE SIGN (TYP)

SNOW STORAGE AREA

100' ADJACENT AREA

SDS

WETLAND "C" ISOLATED [NO SIGNIFICANT NEXUS] AREA: 0.43± ACRES

FOOT CANDLE LEVEL (TYP)

PROPOSED DUMPSTER & ENCLOSURE

LIGHT POLE & FIXTURE 20' MOUNTING HEIGHT (TYP)

30' SIDE YARD SETBACK

SNOW STORAGE AREA

6' HIGH SOLID BOARD ON BOARD FENCE

PROPOSED GRAVEL STORMWATER POND ACCESS ROAD

100' TRANSITION AREA

STORMWATER MANAGEMENT AREA A1 (FOREBAY)

STORMWATER MANAGEMENT AREA A1 (EXTENDED DETENTION)

NYSDEC WETLAND ADJACENT AREA CARSONITE MARKER (TYP)

RAIL ROAD FENCE REMAINS

30' SIDE YARD SETBACK

NYSDEC MB-1 ADJACENT AREA DISTURBANCE (±0.05 Ac.)

100' ADJACENT AREA

WETLAND "D" [NYSDEC MB-1] AREA: 8.28± ACRES

BEAVERDAM BROOK (NYSDEC CLASS "A") STREAM

P/O PROPOSED LOT 2

30' REAR YARD SETBACK

50' BUFFER AREA

I ZONE

R-4A ZONE

KEY MAP
SCALE: 1"=5,000'

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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
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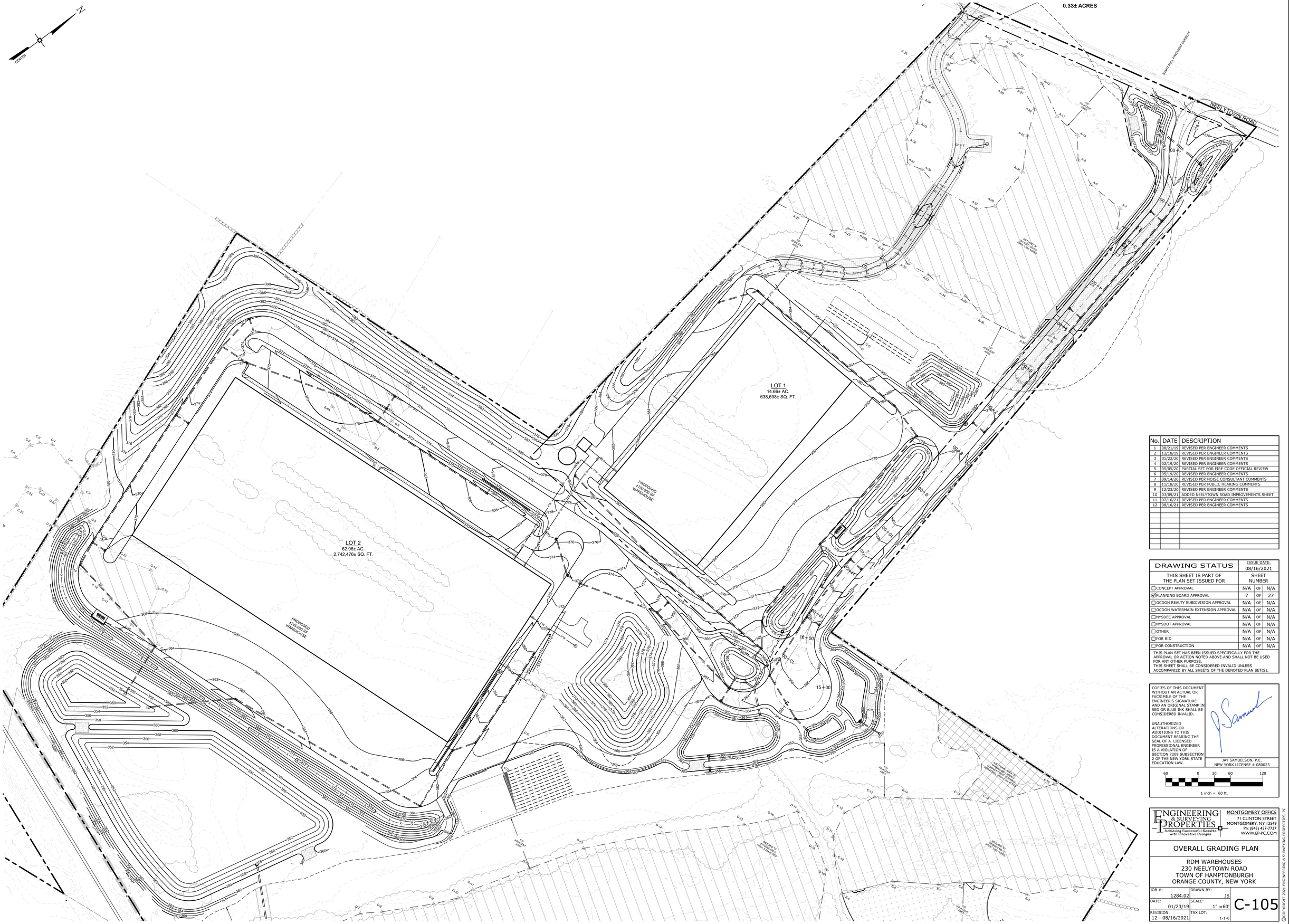
SITE PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	C-104
DATE: 01/23/19	SCALE: 1" = 30'	
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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J:\1284.02 - Real Deal - 230 Neelytown Rd\Site Plan.dwg
Date Printed: Aug 13, 2021, 11:15am


NORTH
0.33± ACRES
NEELYTOWN ROAD
START FULL PAVEMENT OVERLAY
LOT 1
14.66± AC.
638,698± SQ. FT.
LOT 2
62.96± AC.
2,742,476± SQ. FT.
PROPOSED 210,000 SF WAREHOUSE
PROPOSED 210,000 SF WAREHOUSE
15+00
16+00
00+21
00+00
00+10
00+20
00+30
00+40
00+50
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03+10
03+20
03+30
03+40
03+50
03+60
03+70
03+80
03+90

NORTH

R.O.W. DEDICATION TO THE TOWN OF HAMPTONBURGH 0.33± ACRES

NEELYTOWN ROAD

LIMIT OF DISTURBANCE (±35.48 Ac.)

100' ADJACENT AREA

STORMWATER EASEMENT

PROPOSED EASEMENT TO PROVIDE SECOND MEANS OF EMERGENCY ACCESS TO LOT 2

NYSDEC GO-13 ADJACENT AREA DISTURBANCE (±0.300 Ac.)

PROPOSED WELL

PROPOSED 2" DIP WATER SERVICE

PROVIDE HEAD & WING WALLS

PROVIDE 31.75 LF ALUMINUM BOX CULVERT (NO BOTTOM) (8'-9" W X 2'-6" H)

NYSDEC GO-13 WETLAND AREA DISTURBANCE (±0.119 Ac.)

LOT 1
14.66± AC.
638,698± SQ. FT.

ES-OS 1
INV 369.00

INFILTRATION BASIN #3

FOREBAY #3

OS B3-1
GRATE 372.00
INV OUT 369.47

ES 2
INV 368.04

94 LF 24" HDPE @ 0.50%

99 LF 15" HDPE @ 0.50%

EXISTING UTILITY POLE TO BE REMOVED

CB 4
GRATE 374.90
INV OUT 372.16

CB 3
GRATE 374.90
INV IN 368.54 (CB 5)
INV IN 371.90 (CB 4)
INV OUT 368.54

26 LF 15" HDPE @ 1.00%

231 LF 15" HDPE @ 0.50%

NYSDEC GO-13 ADJACENT AREA DISTURBANCE (±0.655 Ac.)

WETLAND "A" [NYSDEC GO-13] AREA 3.38± ACRES

NYSDEC GO-13 WETLAND AREA DISTURBANCE (±0.095 Ac.)

26 LF 15" HDPE @ 0.50%

CB 6
GRATE 372.58
INV OUT 369.83

CB 5
GRATE 372.58
INV IN 369.70 (CB 6)
INV IN 369.70 (CB 9)
INV OUT 369.70

PROVIDE 49.75 LF ALUMINUM BOX CULVERT (NO BOTTOM) (8'-9" W X 2'-6" H)

30" METAL PIPE TO BE REMOVED

274 LF 15" HDPE @ 1.05%

6 ROWS @ 85'

100 % EXPANSION AREA

2,000 GALLON SEPTIC TANK INV IN 381.0

262 GALLON DUAL SIPHON DOSING CHAMBER (TYPE 2)

DB 12
INV IN 379.12

CB 19
GRATE 382.39
INV IN 378.53 (CB 20)
INV OUT 378.53

53 LF 4 D.I.P. @ 2.0% MIN

97 LF SCH 40 PVC @ 1.0% MIN

CLEANOUT (TYP)

71 LF 15" HDPE @ 1.06%

PROPOSED GATE VALVE (TYP)

L.S.E. 382.06

CB 10
GRATE 376.58
INV OUT 373.84

WELL CASING TO BE ABANDONED IN ACCORDANCE WITH ALL AWWA REQUIREMENTS

CB 9
GRATE 376.58 (CB 10)
INV IN 373.58 (CB 10)
INV OUT 372.57

CB 30
GRATE 377.25
INV IN 374.50 (CB 31)

MATCHLINE C-105
MATCHLINE C-107

MATCHLINE C-105
MATCHLINE C-106

KEY MAP
SCALE: 1"=5,000'

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11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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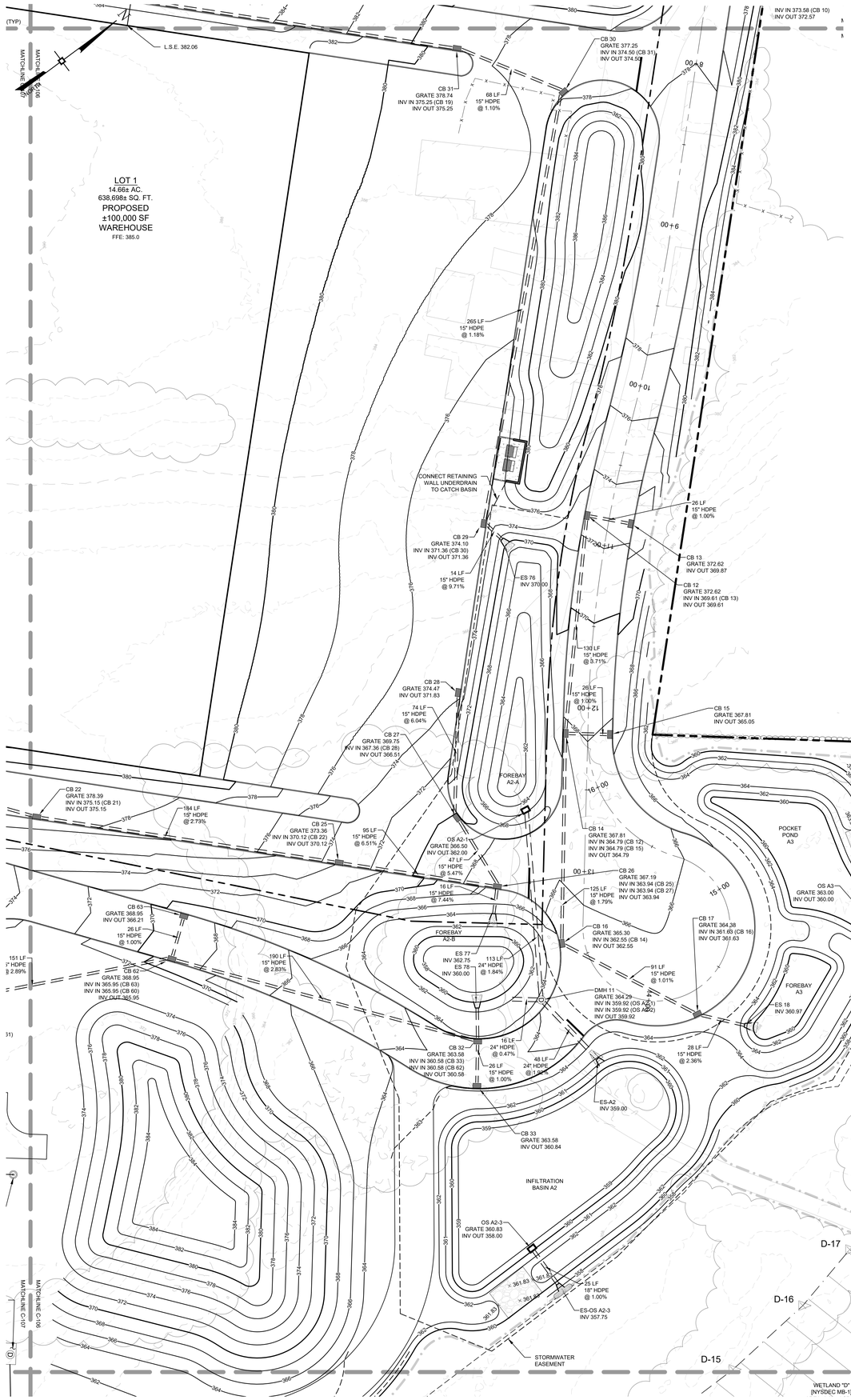
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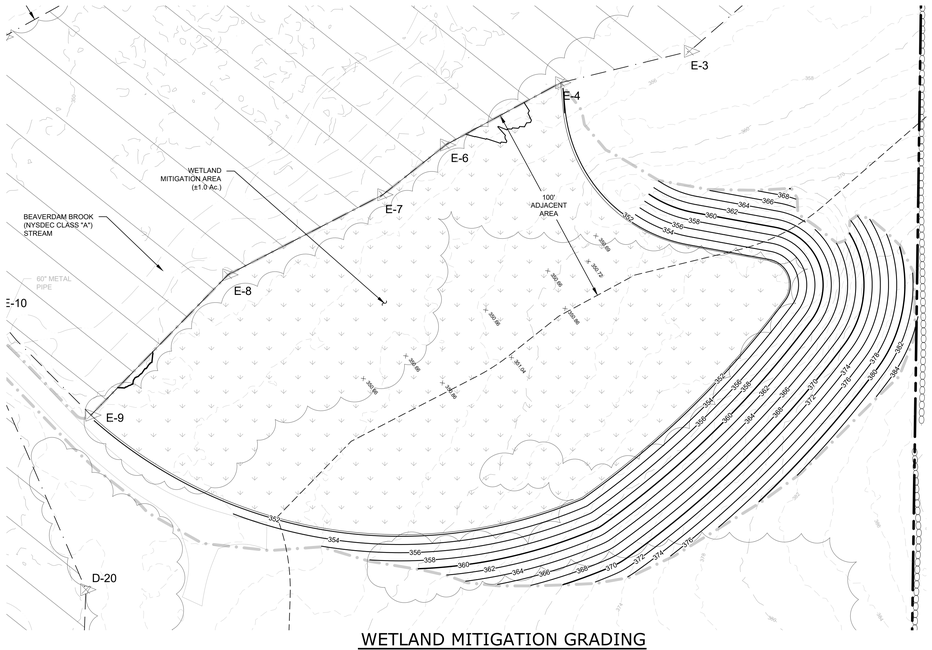
GRADING & UTILITY PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE:	SCALE:	C-106
01/23/19	1" = 30'	
REVISION:	TAX LOT:	
12 - 08/16/2021	1-1-6	

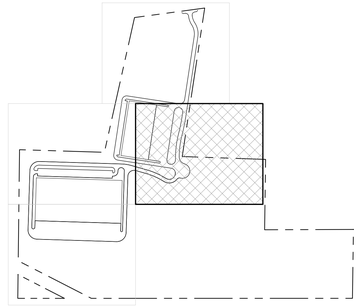
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WETLAND MITIGATION GRADING

SCALE: 1"=30'



KEY MAP

SCALE: 1"=5,000'

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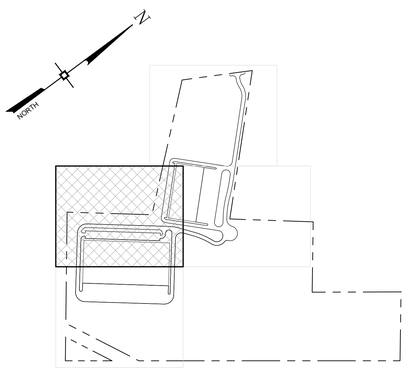
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KEY MAP
SCALE: 1"=5,000'

MATCHLINE C-105
MATCHLINE C-107

MATCHLINE C-107
MATCHLINE C-106

PROPOSED GATE VALVE (TYP)

@ 1.06%

CB 20
GRATE 381.27
INV OUT 378.28

PROPOSED EASEMENT FOR FIRE SUPPRESSION STORAGE TANK & BUILDING AS WELL AS SECOND MEANS OF EMERGENCY ACCESS TO LOT 2

±20'x±20' FIRE PUMP BUILDING F.F.E. 381.50

PROPOSED GATE VALVE (TYP)

PROPOSED 6" DIP FIRE PUMP SUPPLY LINE

136,000 GALLON FIRE PROTECTION WATER TANK
30'-6" TALL, 33' DIAM.
BASE ELEV. 382.0

PROPOSED 6" DIP FIRE PROTECTION SERVICE

LOT 1
14.66± AC.
638,698± SQ. FT.
PROPOSED
±100,000 SF
WAREHOUSE
FFE: 385.0

PROPOSED 4" DIP WATER STORAGE TANK FILL LINE

LIMIT OF DISTURBANCE (±35.48 Ac.)

PROPOSED 4" DIP WATER STORAGE TANK FILL LINE

CB 21
GRATE 380.26
INV OUT 377.02

183 LF
15" HDPE
@ 1.02%

B-9
B-1
B-8
B-2
B-3
B-7
B-6A
B-4
B-6

CB 46
GRATE 373.97
INV OUT 371.23

WETLAND "B"
ISOLATED
[NO SIGNIFICANT NEXUS]
AREA: 0.45± ACRES

CB 45
GRATE 373.97
INV IN 370.97 (CB 46)
INV OUT 370.97

26 LF
15" HDPE
@ 1.00%

28 LF
15" HDPE
@ 12.96%

CB 50
GRATE 373.97
INV IN 370.86 (CB 51)
INV OUT 370.96

26 LF
15" HDPE
@ 1.00%

CB 51
GRATE 373.97
INV OUT 371.22

69 LF
15" HDPE
@ 1.00%

CB 48
GRATE 373.55
INV IN 361.18 (CB 47)
INV OUT 361.18

175 LF
15" HDPE
@ 0.72%

69 LF
15" HDPE
@ 0.50%

CB 47
GRATE 369.03
INV IN 362.44 (CB 44)
INV OUT 362.44

CB 44
GRATE 370.08
INV IN 362.87 (CB 43)
INV IN 367.34 (CB 45)
INV OUT 362.87

238 LF
15" HDPE
@ 0.50%

PROPOSED MSE (KEYSTONE) RETAINING WALL

CONNECT RETAINING WALL UNDERDRAIN TO CATCH BASIN

CB 43
GRATE 367.32
INV OUT 364.07

PROPOSED 4" DIP WATER STORAGE TANK FILL LINE

51 LF
15" HDPE
@ 1.00%

DMH 49
GRATE 374.58
INV IN 370.27 (CB 50)
INV IN 360.67 (CB 48)
INV OUT 360.67

150 LF
15" HDPE
@ 1.00%

CB 52
GRATE 373.09
INV IN 359.17 (DMH 49)
INV IN 370.08 (CB 53)
INV OUT 359.17

CB 53
GRATE 373.09
INV OUT 370.34

26 LF
15" HDPE
@ 1.00%

279 LF
15" HDPE
@ 1.01%

PROPOSED GATE VALVE (TYP)

PROPOSED 6" DIP FIRE PROTECTION SERVICE

CB 39
GRATE 375.92
INV OUT 372.68

69 LF
15" HDPE
@ 3.04%

CB 61
GRATE 373.82
INV IN 370.58 (CB 39)
INV OUT 370.58

26 LF
15" HDPE
@ 1.00%

CB 60
GRATE 373.82
INV IN 370.32 (CB 61)
INV OUT 370.32

151 LF
15" HDPE
@ 2.89%

PROPOSED 2" DIP WATER SERVICE

PROPOSED WELL

CB 59
GRATE 367.85
INV OUT 363.56

2,000 & 1,500 GALLON SEPTIC TANKS IN SERIES

718 GALLON DUAL SIPHON DOSING CHAMBER (TYPE 5)

L.S.E. 364.0

60 LF 4 D.I.P.
@ 2.0% MIN

194 LF
INV IN 362.5
@ 2.99%

MATCHLINE C-107

MATCHLINE C-106

MATCHLINE C-108

LOT 2
62.96± AC.
2,742,476± SQ. FT.
PROPOSED
±245,000 SF
WAREHOUSE
FFE: 372.0

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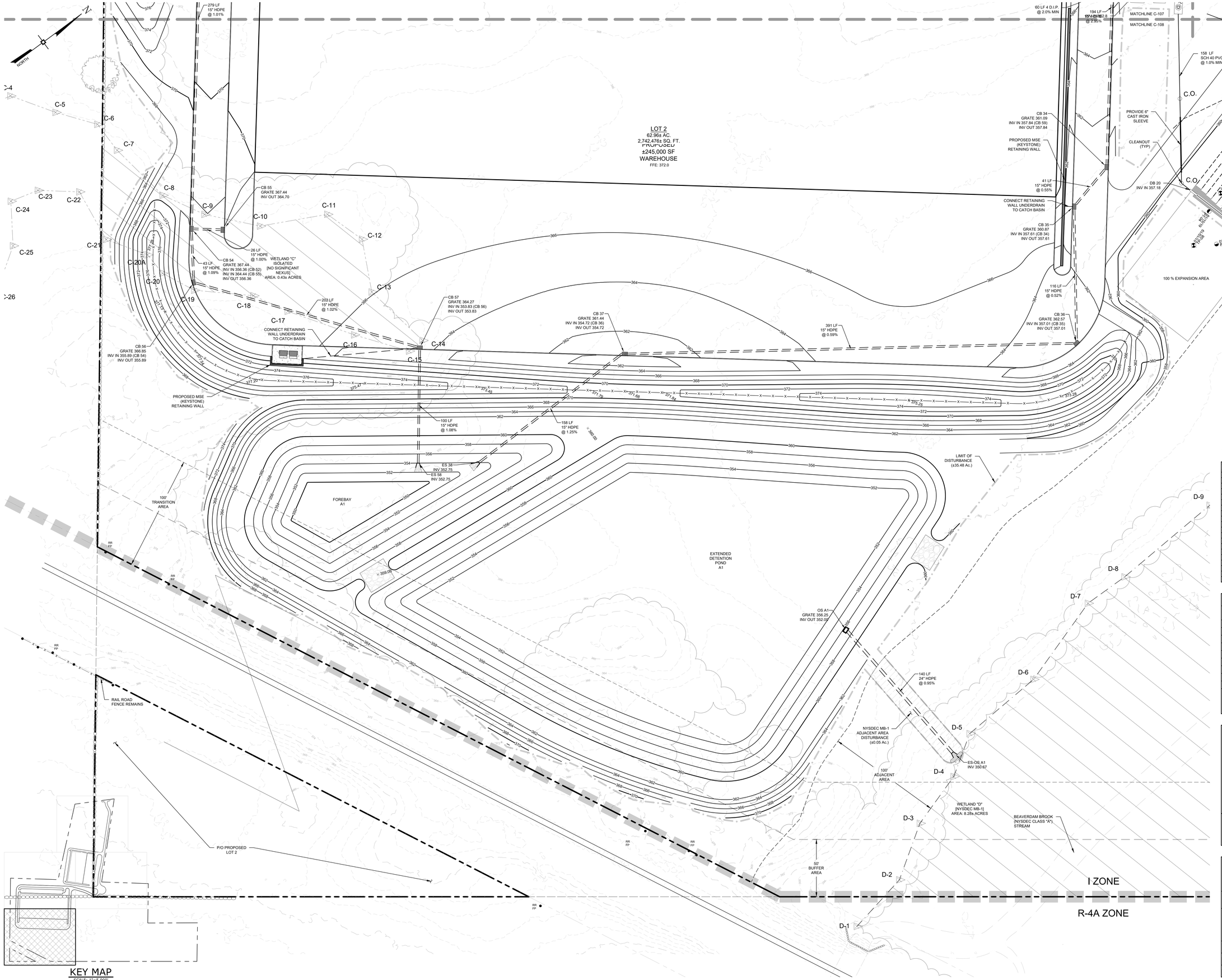
GRADING & UTILITY PLAN

RDM WAREHOUSES
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ORANGE COUNTY, NEW YORK

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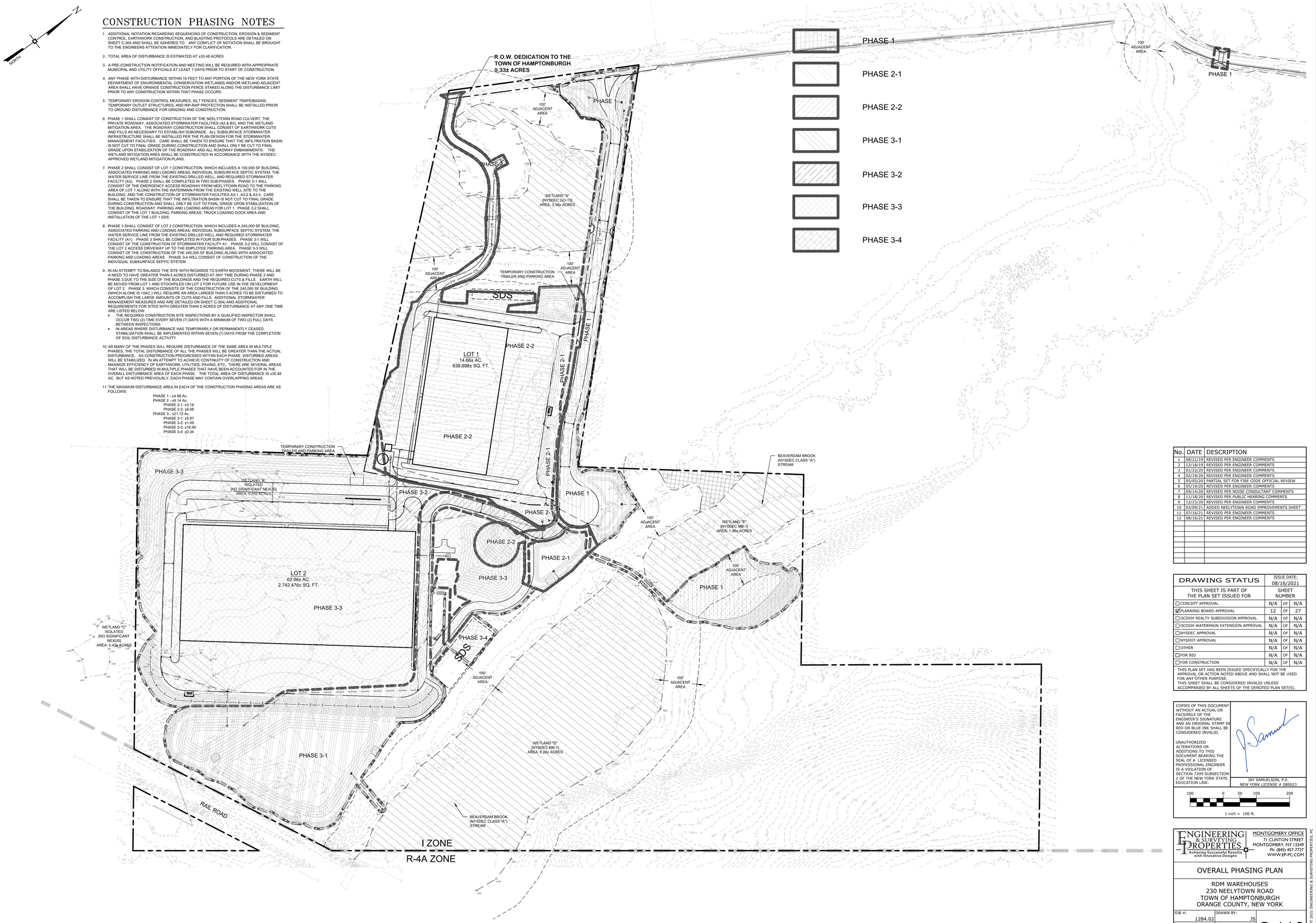
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CONSTRUCTION PHASING NOTES

1. ADDITIONAL NOTATION REGARDING SEQUENCING OF CONSTRUCTION, EROSION & SEDIMENT CONTROL, EARTHWORK CONSTRUCTION, AND BLASTING PROTOCOLS ARE DETAILED ON SHEET C-304 AND SHALL BE ADHERED TO. ANY CONFLICT OF NOTATION SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY FOR CLARIFICATION.
2. TOTAL AREA OF DISTURBANCE IS ESTIMATED AT ±35.48 ACRES
3. A PRE-CONSTRUCTION NOTIFICATION AND MEETING WILL BE REQUIRED WITH APPROPRIATE MUNICIPAL AND UTILITY OFFICIALS AT LEAST 7 DAYS PRIOR TO START OF CONSTRUCTION.
4. ANY PHASE WITH DISTURBANCE WITHIN 10 FEET TO ANY PORTION OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION WETLANDS AND/OR WETLAND ADJACENT AREA SHALL HAVE ORANGE CONSTRUCTION FENCE STAKED ALONG THE DISTURBANCE LIMIT PRIOR TO ANY CONSTRUCTION WITHIN THAT PHASE OCCURS.
5. TEMPORARY EROSION CONTROL MEASURES, SILT FENCES, SEDIMENT TRAPS/BASINS, TEMPORARY OUTLET STRUCTURES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.
6. PHASE 1 SHALL CONSIST OF CONSTRUCTION OF THE NEELYTOWN ROAD CULVERT, THE PRIVATE ROADWAY, ASSOCIATED STORMWATER FACILITIES (A2 & B3), AND THE WETLAND MITIGATION AREA. THE ROADWAY CONSTRUCTION SHALL CONSIST OF EARTHWORK CUTS AND FILLS AS NECESSARY TO ESTABLISH SUBGRADE. ALL SUBSURFACE STORMWATER INFRASTRUCTURE SHALL BE INSTALLED PER THE PLAN DESIGN FOR THE STORMWATER MANAGEMENT FACILITIES. CARE SHALL BE TAKEN TO ENSURE THAT THE INFILTRATION BASIN IS NOT CUT TO FINAL GRADE DURING CONSTRUCTION AND SHALL ONLY BE CUT TO FINAL GRADE UPON STABILIZATION OF THE ROADWAY AND ALL ROADWAY EMBANKMENTS. THE WETLAND MITIGATION AREA SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NYSDEC APPROVED WETLAND MITIGATION PLANS.
7. PHASE 2 SHALL CONSIST OF LOT 1 CONSTRUCTION, WHICH INCLUDES A 100,000 SF BUILDING, ASSOCIATED PARKING AND LOADING AREAS, INDIVIDUAL SUBSURFACE SEPTIC SYSTEM, THE WATER SERVICE LINE FROM THE EXISTING DRILLED WELL, AND REQUIRED STORMWATER FACILITY (A3). PHASE 2 SHALL BE COMPLETED IN TWO SUB-PHASES. PHASE 2-1 WILL CONSIST OF THE EMERGENCY ACCESS ROADWAY FROM NEELYTOWN ROAD TO THE PARKING AREA OF LOT 1 ALONG WITH THE WATERMAIN FROM THE EXISTING WELL SITE TO THE BUILDING, AND THE CONSTRUCTION OF STORMWATER FACILITIES A3-1, A3-2 & A3-3. CARE SHALL BE TAKEN TO ENSURE THAT THE INFILTRATION BASIN IS NOT CUT TO FINAL GRADE DURING CONSTRUCTION AND SHALL ONLY BE CUT TO FINAL GRADE UPON STABILIZATION OF THE BUILDING, ROADWAY, PARKING AND LOADING AREAS FOR LOT 1. PHASE 2-2 SHALL CONSIST OF THE LOT 1 BUILDING, PARKING AREAS, TRUCK LOADING DOCK AREA AND INSTALLATION OF THE LOT 1 SDS.
8. PHASE 3 SHALL CONSIST OF LOT 2 CONSTRUCTION, WHICH INCLUDES A 245,000 SF BUILDING, ASSOCIATED PARKING AND LOADING AREAS, INDIVIDUAL SUBSURFACE SEPTIC SYSTEM, THE WATER SERVICE LINE FROM THE EXISTING DRILLED WELL AND REQUIRED STORMWATER FACILITY (A1). PHASE 3 SHALL BE COMPLETED IN FOUR SUB-PHASES. PHASE 3-1 WILL CONSIST OF THE CONSTRUCTION OF STORMWATER FACILITY A1. PHASE 3-2 WILL CONSIST OF THE LOT 2 ACCESS DRIVEWAY UP TO THE EMPLOYEE PARKING AREA. PHASE 3-3 WILL CONSIST OF THE CONSTRUCTION OF THE 245,000 SF BUILDING ALONG WITH ASSOCIATED PARKING AND LOADING AREAS. PHASE 3-4 WILL CONSIST OF CONSTRUCTION OF THE INDIVIDUAL SUBSURFACE SEPTIC SYSTEM.
9. IN AN ATTEMPT TO BALANCE THE SITE WITH REGARDS TO EARTH MOVEMENT, THERE WILL BE A NEED TO HAVE GREATER THAN 5 ACRES DISTURBED AT ANY TIME DURING PHASE 2 AND PHASE 3 DUE TO THE SIZE OF THE BUILDINGS AND THE REQUIRED CUTS & FILLS. EARTH WILL BE MOVED FROM LOT 1 AND STOCKPILED ON LOT 2 FOR FUTURE USE IN THE DEVELOPMENT OF LOT 2. PHASE 3, WHICH CONSISTS OF THE CONSTRUCTION OF THE 245,000 SF BUILDING (WHICH ALONE IS >5AC.) WILL REQUIRE AN AREA LARGER THAN 5 ACRES TO BE DISTURBED TO ACCOMPLISH THE LARGE AMOUNTS OF CUTS AND FILLS. ADDITIONAL STORMWATER MANAGEMENT MEASURES AND ARE DETAILED ON SHEET C-304) AND ADDITIONAL REQUIREMENTS FOR SITES WITH GREATER THAN 5 ACRES OF DISTURBANCE AT ANY ONE TIME ARE LISTED BELOW:
   - THE REQUIRED CONSTRUCTION SITE INSPECTIONS BY A QUALIFIED INSPECTOR SHALL OCCUR TWO (2) TIME EVERY SEVEN (7) DAYS WITH A MINIMUM OF TWO (2) FULL DAYS BETWEEN INSPECTIONS.
   - IN AREAS WHERE DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED, STABILIZATION SHALL BE IMPLEMENTED WITHIN SEVEN (7) DAYS FROM THE COMPLETION OF SOIL DISTURBANCE ACTIVITY.
10. AS MANY OF THE PHASES WILL REQUIRE DISTURBANCE OF THE SAME AREA IN MULTIPLE PHASES, THE TOTAL DISTURBANCE OF ALL THE PHASES WILL BE GREATER THAN THE ACTUAL DISTURBANCE. AS CONSTRUCTION PROGRESSES WITHIN EACH PHASE, DISTURBED AREAS WILL BE STABILIZED. IN AN ATTEMPT TO ACHIEVE CONTINUITY OF CONSTRUCTION AND MAXIMIZE EFFICIENCY OF EARTHWORK, UTILITIES, PAVING, ETC., THERE ARE SEVERAL AREAS THAT WILL BE DISTURBED IN MULTIPLE PHASES THAT HAVE BEEN ACCOUNTED FOR IN THE OVERALL DISTURBANCE AREA OF EACH PHASE. THE TOTAL AREA OF DISTURBANCE IS ±35.48 AC. BUT AS NOTED PREVIOUSLY, EACH PHASE MAY CONTAIN OVERLAPPING AREAS.
11. THE MAXIMUM DISTURBANCE AREA IN EACH OF THE CONSTRUCTION PHASING AREAS ARE AS FOLLOWS:

PHASE 1 - ±4.88 Ac.
PHASE 2 - ±9.14 Ac.
PHASE 2-1: ±3.16
PHASE 2-2: ±6.08
PHASE 3 - ±21.72 Ac.
PHASE 3-1: ±5.97
PHASE 3-2: ±1.09
PHASE 3-3: ±16.90
PHASE 3-4: ±0.34



PHASE 1
PHASE 2-1
PHASE 2-2
PHASE 3-1
PHASE 3-2
PHASE 3-3
PHASE 3-4

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☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	12	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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100 0 50 100 200
1 inch = 100 ft.

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OVERALL PHASING PLAN

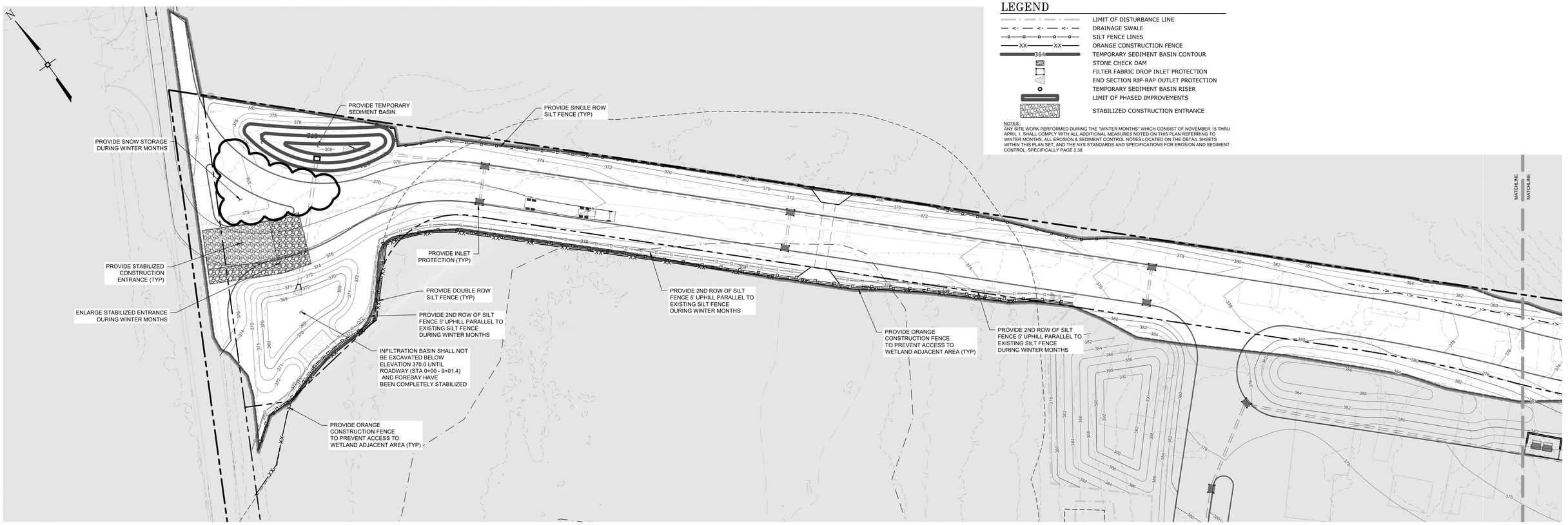
RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	1284.02	DRAWN BY:	JS
DATE:	01/23/19	SCALE:	1" = 100'
REVISION:	12 - 08/16/2021	TAX LOT:	1-1-6

C-110

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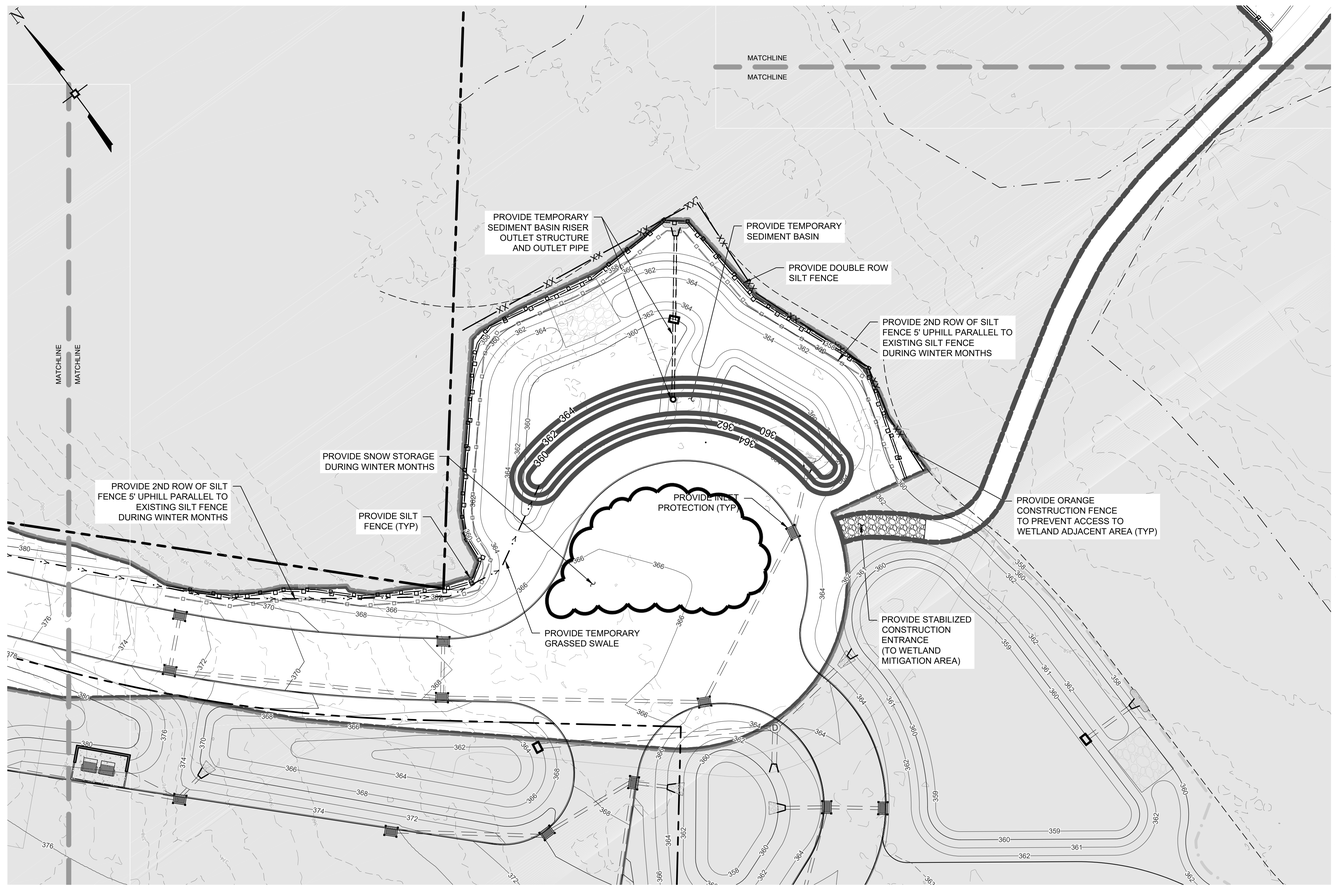
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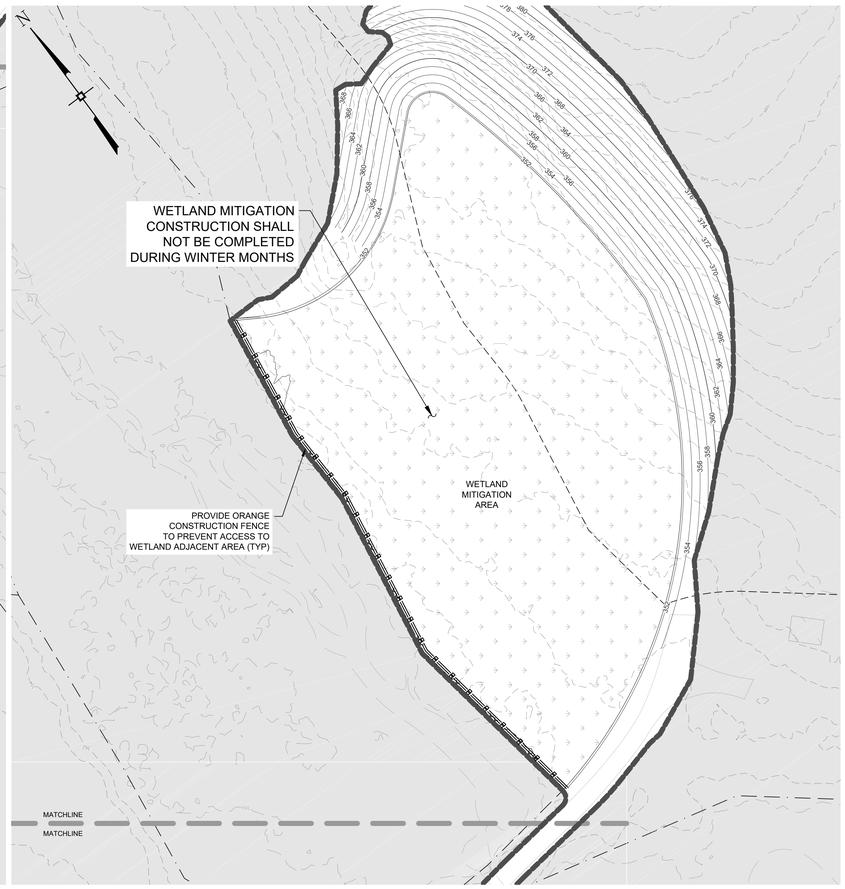


LEGEND

- LIMIT OF DISTURBANCE LINE
- DRAINAGE SWALE
- SILT FENCE LINES
- ORANGE CONSTRUCTION FENCE
- TEMPORARY SEDIMENT BASIN CONTOUR
- STONE CHECK DAM
- FILTER FABRIC DROP INLET PROTECTION
- END SECTION RIP-RAP OUTLET PROTECTION
- TEMPORARY SEDIMENT BASIN RISER
- LIMIT OF PHASED IMPROVEMENTS
- STABILIZED CONSTRUCTION ENTRANCE

NOTES:
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No.	DATE	DESCRIPTION
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6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

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☑ PLANNING BOARD APPROVAL	13	OF	27
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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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30 0 15 30 60
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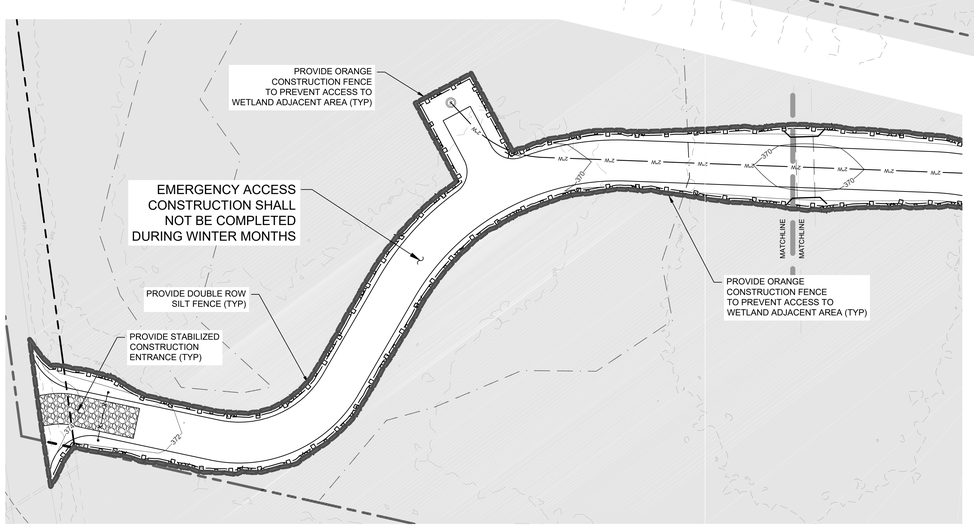
PHASE 1
EROSION CONTROL PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1284.02	DRAWN BY: JS	C-111
DATE: 01/23/19	SCALE: 1" = 30'	
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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LEGEND

- LIMIT OF DISTURBANCE LINE
- DRAINAGE SWALE
- SILT FENCE LINES
- XX ORANGE CONSTRUCTION FENCE
- 364 TEMPORARY SEDIMENT BASIN CONTOUR
- STONE CHECK DAM
- FILTER FABRIC DROP INLET PROTECTION
- END SECTION RIP-RAP OUTLET PROTECTION
- TEMPORARY SEDIMENT BASIN RISER
- LIMIT OF PHASED IMPROVEMENTS
- STABILIZED CONSTRUCTION ENTRANCE

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☑ PLANNING BOARD APPROVAL	14	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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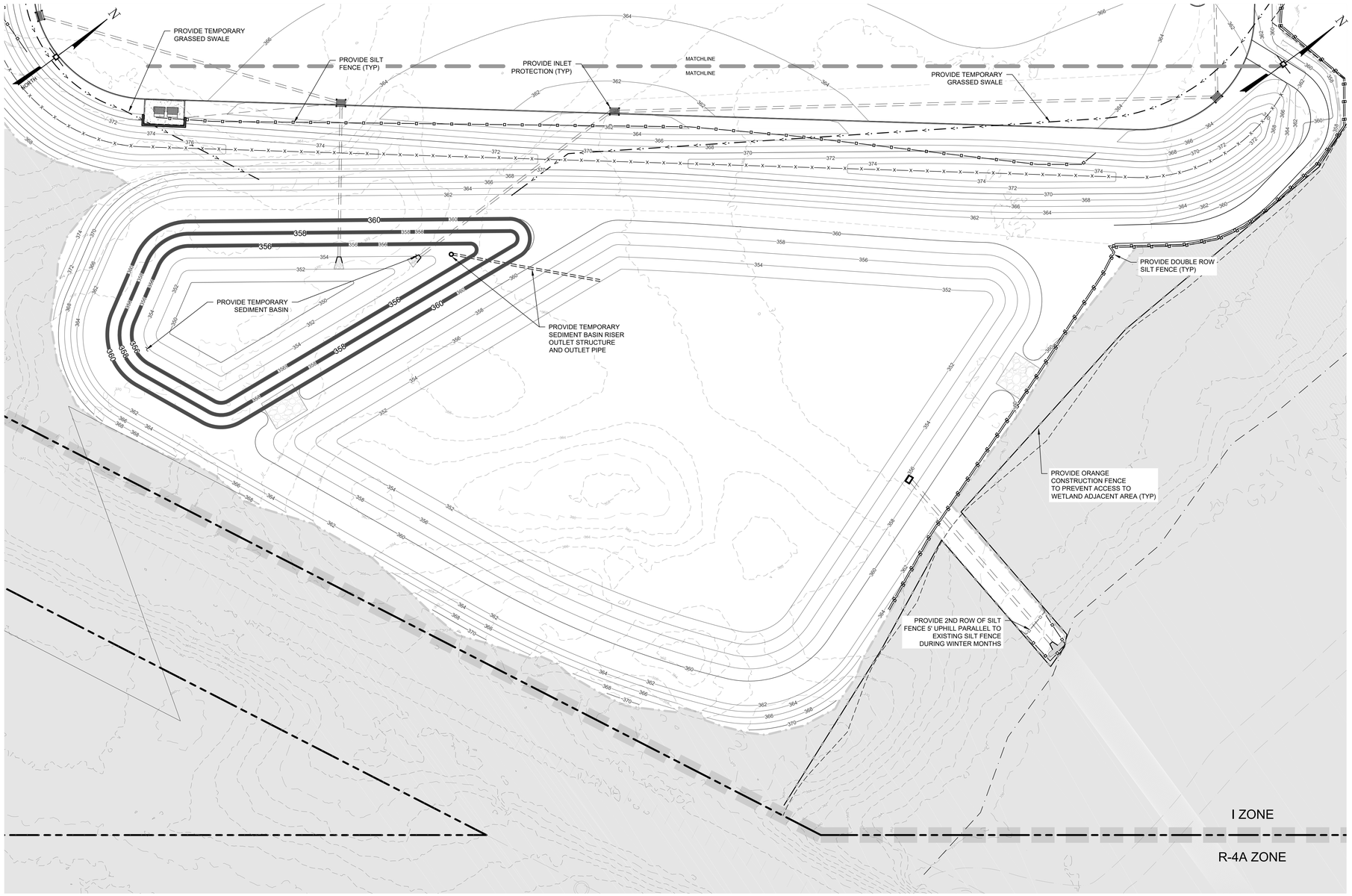
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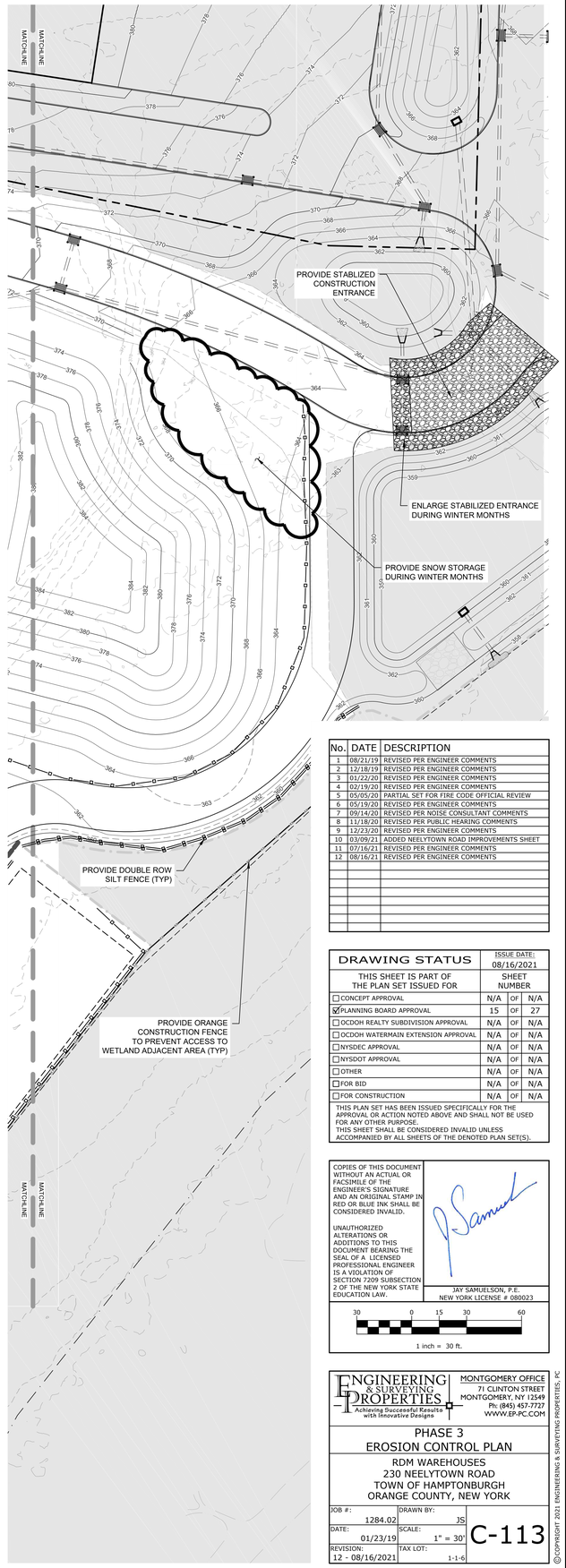
PHASE 2
EROSION CONTROL PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	C-112
DATE: 01/23/19	SCALE: 1" = 30'	
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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LEGEND

- LIMIT OF DISTURBANCE LINE
- DRAINAGE SWALE
- SILT FENCE LINES
- ORANGE CONSTRUCTION FENCE
- TEMPORARY SEDIMENT BASIN CONTOUR
- STONE CHECK DAM
- FILTER FABRIC DROP INLET PROTECTION
- END SECTION RIP-RAP OUTLET PROTECTION
- TEMPORARY SEDIMENT BASIN RISER
- LIMIT OF PHASED IMPROVEMENTS
- STABILIZED CONSTRUCTION ENTRANCE

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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
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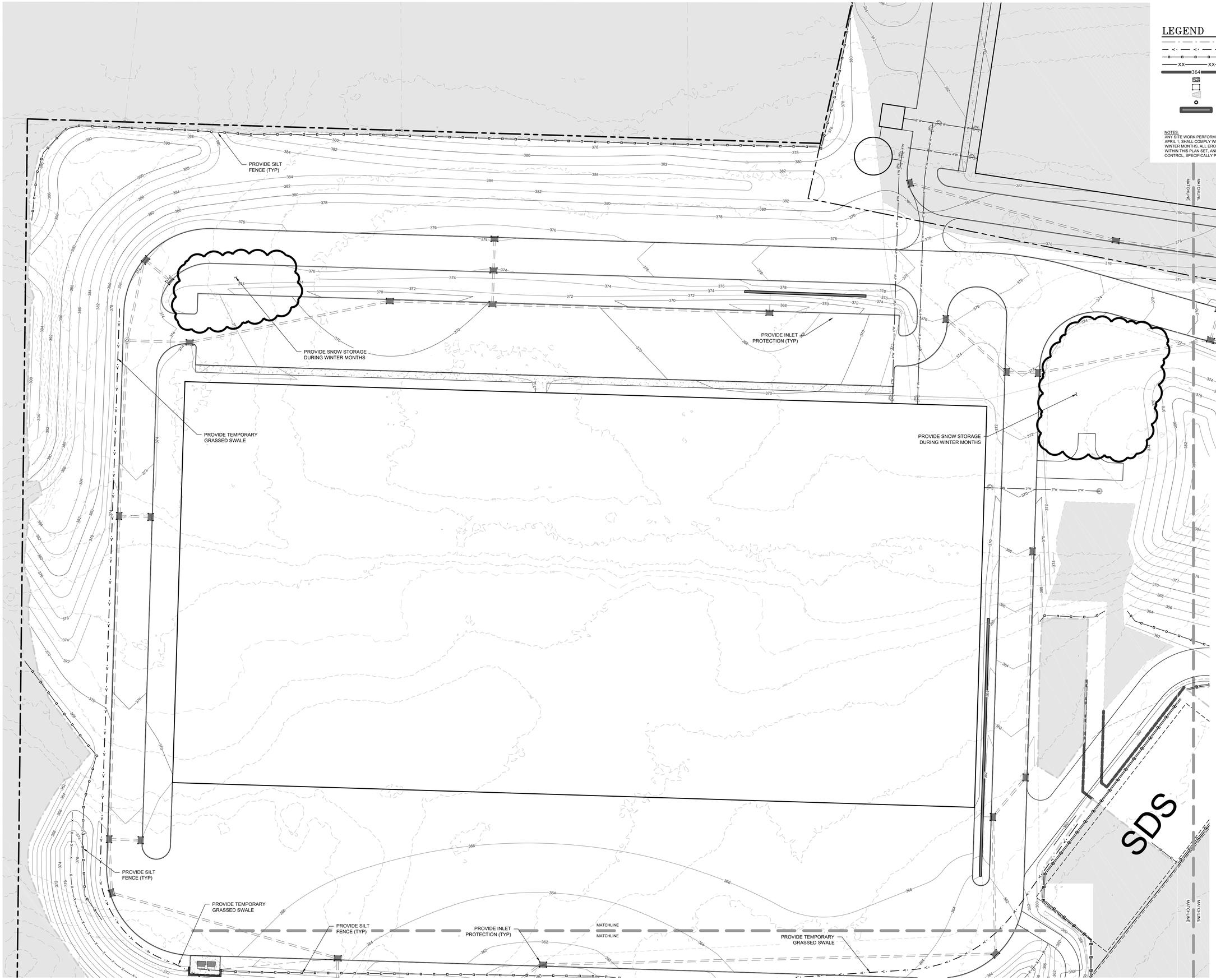
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PHASE 3
EROSION CONTROL PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
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DATE: 01/23/19	SCALE: 1" = 30'	
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LEGEND

- LIMIT OF DISTURBANCE LINE
- DRAINAGE SWALE
- SILT FENCE LINES
- XX XX ORANGE CONSTRUCTION FENCE
- 364 TEMPORARY SEDIMENT BASIN CONTOUR
- SCD STONE CHECK DAM
- FILTER FABRIC DROP INLET PROTECTION
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☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
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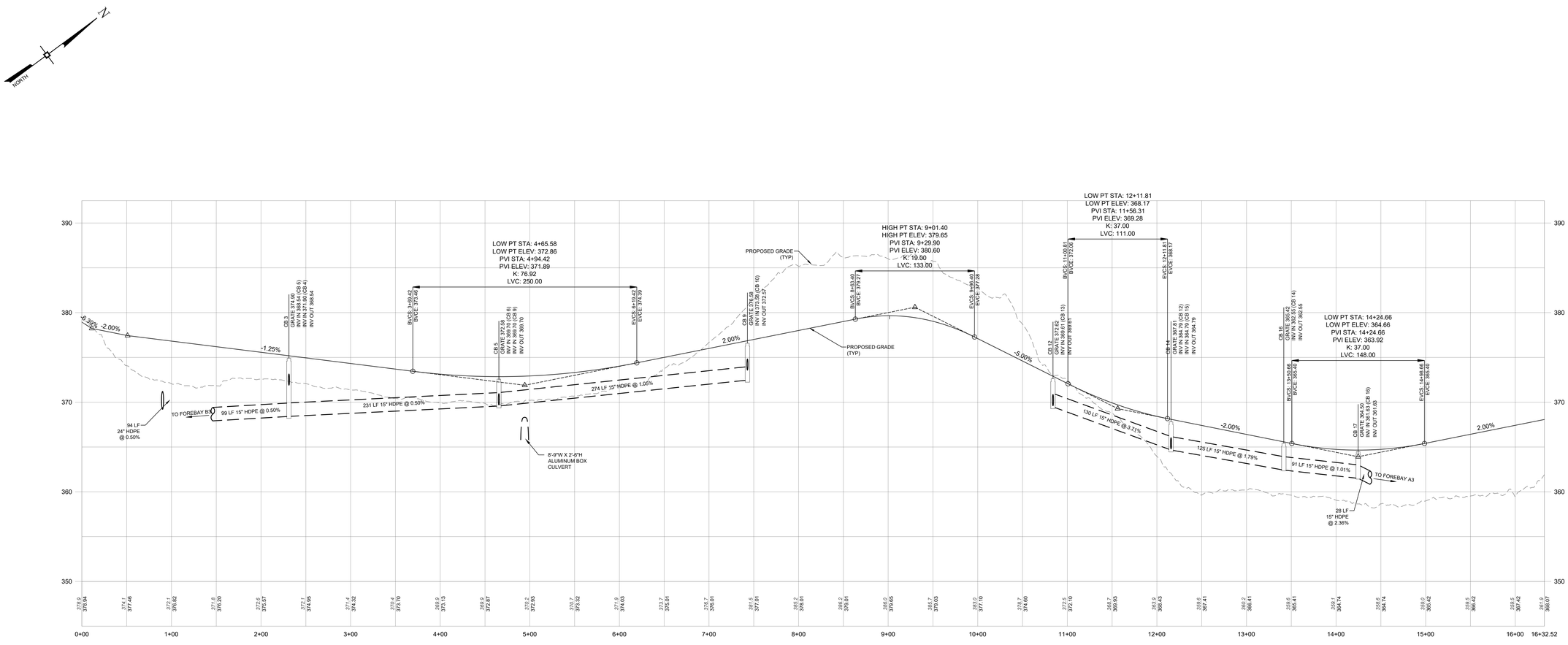
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PHASE 3
EROSION CONTROL PLAN

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

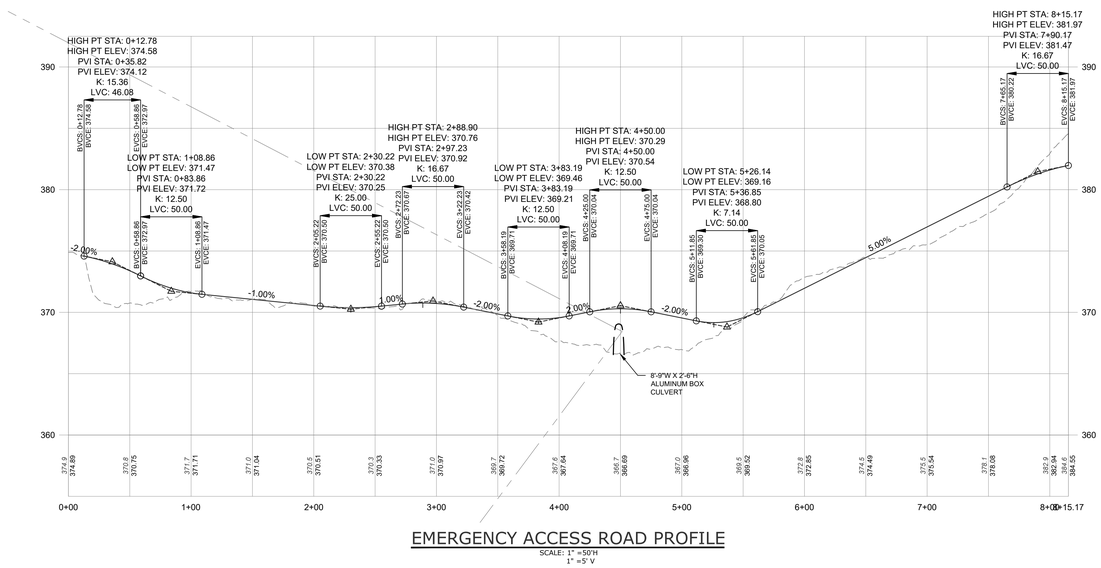
JOB #:	DRAWN BY:	
1284.02	JS	
DATE:	SCALE:	C-114
01/23/19	1" = 30'	
REVISION:	TAX LOT:	
12 - 08/16/2021	1-1-6	

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PROPOSED PRIVATE ROAD PROFILE

SCALE: 1" =50'H
1" =5' V



EMERGENCY ACCESS ROAD PROFILE

SCALE: 1" =50'H
1" =5' V

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
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50 0 25 50 100
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PRIVATE ROAD PROFILE

RDM WAREHOUSES
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ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE: 01/23/19	SCALE: 1" =50'H, 1"=5' V	C-201
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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PERCOLATION TEST RESULTS

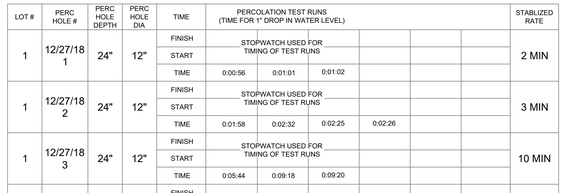
LOT #	PERC HOLE #	PERC HOLE DEPTH	PERC HOLE DIA	TIME	PERCOLATION TEST RUNS (TIME FOR 1" DROP IN WATER LEVEL)						STABLIZED RATE
1	12/27/18 1	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						2 MIN
				START							
				TIME	0:00:56	0:01:01	0:01:02				
1	12/27/18 2	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						3 MIN
				START							
				TIME	0:01:58	0:02:32	0:02:25	0:02:26			
1	12/27/18 3	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						10 MIN
				START							
				TIME	0:05:44	0:09:18	0:09:20				
1	12/27/18 4	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						3 MIN
				START							
				TIME	0:01:36	0:01:55	0:02:04				
2	01/15/19 1	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						9 MIN
				START							
				TIME	0:06:47	0:07:29	0:08:12				
2	01/15/19 2	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						3 MIN
				START							
				TIME	0:02:08	0:02:45	0:02:52				
2	01/15/19 3	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						12 MIN
				START							
				TIME	0:09:41	0:10:30	0:11:01				
2	01/15/19 4	24"	12"	FINISH	STOPWATCH USED FOR TIMING OF TEST RUNS						4 MIN
				START							
				TIME	0:01:16	0:02:27	0:02:57	0:03:31	0:03:36		

DEEP TEST HOLE RESULTS

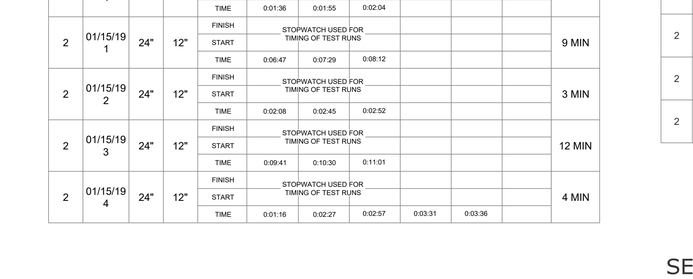
LOT #	TEST HOLE #	DATE	DEPTH	DESCRIPTION
1	TP 01	01/10/19	0" - 4" 4" - 36" 36" - 60" 60" - 96"	TOPSOIL TAN SILTY SANDY GRAVELLY LOAM BROWN GRAVELLY LOAM TAN SILTY SANDY CLAY LOAM GROUNDWATER @ 68", NO MOTTLING, NO ROCK
1	TP 02	01/10/19	0" - 10" 10" - 44" 44" - 68" 68" - 96"	TOPSOIL TAN SILTY SANDY LOAM BROWN GRAVELLY SILTY LOAM W/ COBBLES TAN SILTY GRAVELLY CLAY LOAM GROUNDWATER@ 68", NO MOTTLING, NO ROCK
1	TP 03	01/10/19	0" - 4" 4" - 20" 20" - 56" 56" - 96"	TOPSOIL TAN SILTY LOAM BROWN SILTY SANDY CLAY LOAM W/ COBBLES BROWN SILTY GRAVELLY CLAY LOAM GROUNDWATER @ 78" NO MOTTLING, NO ROCK
1	TP 04	01/10/19	0" - 6" 6" - 22" 22" - 84" 84" - 96"	TOPSOIL TAN SILTY LOAM BROWN SILTY SANDY GRAVELLY CLAY LOAM BROWN SILTY SANDY GRAVELLY LOAM W/ COBBLES GROUNDWATER @ 72", NO MOTTLING, NO ROCK
2	TP 05	01/10/19	0" - 10" 10" - 21" 21" - 48" 48" - 96"	TOPSOIL TAN SIL BLACK SANDY GRAVEL BROWN SILTY SANDY GRAVELLY LOAM W/ COBBLES GROUNDWATER @ 70", NO ROCK, NO MOTTLING
2	TP 06	01/10/19	0" - 8" 8" - 30" 30" - 48" 48" - 108"	TOPSOIL TAN SILTY LOAM BROWN SILTY SANDY GRAVELLY LOAM TAN SILTY CLAY SANDY LOAM GROUNDWATER @ 84", MOTTLING @ 64", NO ROCK
2	TP 07	01/10/19	0" - 12" 12" - 44" 44" - 60" 60" - 96"	TOPSOIL TAN SILTY LOAM BLACK SANDY GRAVEL W/ COBBLES GROUNDWATER @ 84", NO MOTTLING, NO ROCK
2	TP 08	01/10/19	0" - 12" 12" - 36" 36" - 68" 68" - 96"	TOPSOIL TAN SILTY LOAM BROWN SILTY SANDY LOAM TAN GRAVELLY LOAM W/ COBBLES GROUNDWATER @ 72", NO MOTTLING, NO ROCK

SEPTIC SYSTEM DESIGN SCHEDULE

LOT #	STABILIZE PERC RATE (min)	FLOW RATE (GPD)	APPLICATION RATE (GPD/Sq. ft.)	REQUIRED AREA (Sq. ft.)	REQUIRED ABSORPTION FIELD LENGTH (ft) (BASED UPON 2' WIDE TRENCH)	PROPOSED ABSORPTION FIELD LENGTH (ft)
1	10	900	0.90	1000	500	6 LATERALS @ 85' = 510'
2	12	2175	0.80	2719	1360	14 LATERALS @ 100' = 1,400'



PLAN VIEW

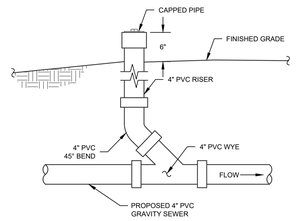


SECTION A-A

NOTES:
1. DISTRIBUTION BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-20 OR APPROVED EQUAL
2. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
3. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
4. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
5. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS
6. FIRST 30" MIN OF OUTLET PIPE(S) TO BE SOLID PVC
7. UNUSED OUTLETS TO REMAIN PLUGGED
8. THE FIRST 10' OF ALL PIPES OUT OF THE BOX MUST BE SET AT THE SAME SLOPE
9. THE OUTLETS SHALL BE USED AS SHOWN ON THE PLANS AS TO BE IN A MANNER THAT IF EXPANSION IS REQUIRED, THE EXISTING LATERALS WILL NOT BE DISTURBED.
10. ALL INVERTS OF THE OUTLETS MUST BE IDENTICAL.

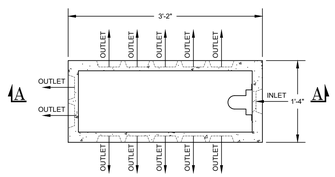
20 HOLE DISTRIBUTION BOX

SCALE: 1"=1'-0"

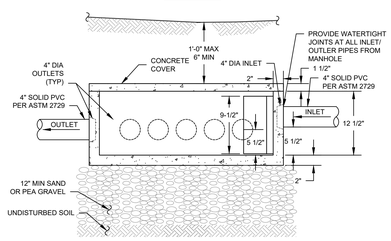


TYPICAL CLEANOUT

SCALE: NTS



PLAN VIEW

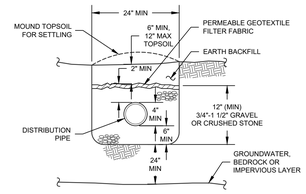


SECTION A-A

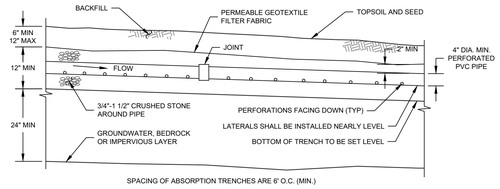
NOTES:
1. DISTRIBUTION BOX AS MANUFACTURED BY WOODARD'S CONCRETE PRODUCTS, INC. CATALOG No. DB-12 OR APPROVED EQUAL
2. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
3. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
4. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
5. PROVIDE SPEED LEVELERS AT ALL DISTRIBUTION BOX OUTLETS
6. FIRST 30" MIN OF OUTLET PIPE(S) TO BE SOLID PVC
7. UNUSED OUTLETS TO REMAIN PLUGGED
8. DISTRIBUTION BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.

12 HOLE DISTRIBUTION BOX

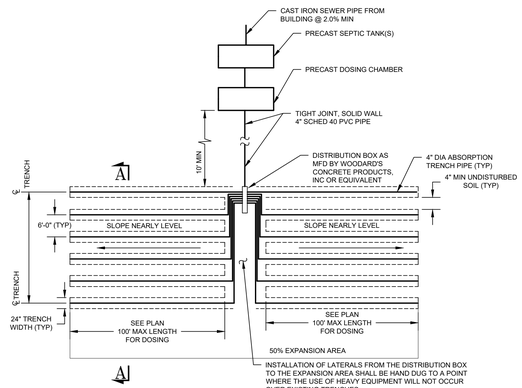
SCALE: NTS



TYPICAL TRENCH SECTION



TYPICAL TRENCH PROFILE



PLAN VIEW
DOSED SYSTEMS

NOTES:
1. SEPTIC TANK TO BE LOCATED A MINIMUM DISTANCE OF 10 FEET FROM THE BUILDING.
2. THERE SHALL BE NO RE-GRADING, EXCEPT AS SHOWN ON THE APPROVED PLANS, IN THE AREA OF THE ABSORPTION FIELDS.
3. ROOF DRAINS OR FOOTING DRAINS SHALL NOT BE DISCHARGED IN THE VICINITY OF THE TILE FIELDS OR WELLS.
4. DRIVEWAYS AND/OR STRUCTURES THAT MAY COMPACT THE SOIL ARE NOT TO BE CONSTRUCTED OVER TILE FIELDS.
5. ASPHALTIC SEALS SHALL BE MAINTAINED BETWEEN THE SEPTIC TANK, AND ALL PIPES AND COVERS.
6. NO TRENCHES TO BE INSTALLED IN WET SOIL.
7. RAKE SIDES AND BOTTOM OF TRENCH PRIOR TO PLACING GRAVEL IN ABSORPTION TRENCH.
8. GROUT ALL PIPE PENETRATIONS INTO AND OUT OF ANY DISTRIBUTION OR DROP BOX.
9. ALL CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "NEW YORK STATE DESIGN STANDARDS FOR INTERMEDIATE SIZED WASTEWATER TREATMENT SYSTEMS, 2014", OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
10. ABSORPTION TRENCH PIPE TO BE CAPPED AT END.
11. SEPTIC TANK JOINTS MUST BE SEALED AND TESTED FOR WATERTIGHTNESS.
12. PROVIDE 30" OF SOLID PIPE PRIOR TO START OF PERFORATED ABSORPTION PIPE AND BE BACKFILLED WITH NATIVE MATERIAL.
13. THERE MUST BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK (OR ANY PUMPING OR DOSING CHAMBER) TO THE BUILDING, ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
14. DROP BOXES SHOULD BE INSPECTED PERIODICALLY TO ASSURE THAT THEY ARE LEVEL AND OPERATING PROPERLY.
15. HEAVY EQUIPMENT SHLL BE KEPT OFF THE AREA OF THE ABSORPTION FIELDS EXCEPT DURING THE ACTUAL CONSTRUCTION. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE ABSORPTION FIELD AREA BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION SO TO AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF ABSORPTION CAPACITY OF THE SOIL ON SHICH THE DESIGN WAS BASED.
16. A POLICY OF CLEAN SCRAPING ANY SOLIDS FROM THE WASTE STREAM BEFORE DISCHARGE INTO THE DISPOSAL SYSTEM IS REQUIRED. USE OF GARBAGE GRINDERS WITHIN THE FACILITY SHALL REQUIRE THE REVIEW AND APPROVAL OF THE NYSDEC AND ORANGE COUNTY DEPARTMENT OF HEALTH.

ABSORPTION TILE FIELD OVERALL PLAN

SCALE: N.T.S.

REQUIRED SEPARATION DISTANCES FROM WASTEWATER SYSTEM COMPONENTS

SYSTEM COMPONENTS	WELL OR SUCTION LINE	STREAM, LAKE, WATERCOURSE (b), OR DEC WETLAND	DWELLING	PROPERTY LINE	DRAINAGE DITCH
HOUSE SEWER	50'	25'	3'	10'	10'
SEPTIC TANK	50'	50'	10'	10'	10'
EFFLUENT LINE TO D-BOX	50'	50'	10'	10'	10'
DISTRIBUTION BOX	100'	100'	20'	10'	20'
ABSORPTION FIELD	100'	100'	20'	10'	50'

SEPTIC DESIGN NOTES

1. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED.
2. BEFORE ANY SITE DISTURBANCE, ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED ON THE PERIMETER OF THE PROPOSED SEWAGE DISPOSAL FIELD AS SHOWN ON THIS PLAN. THIS AREA SHALL REMAIN FREE OF DISTURBANCE UNTIL SUCH TIME AS THE SEPTIC SYSTEM IS TO BE INSTALLED. STRIPPING OF TOPSOIL IN THIS AREA IS STRICTLY PROHIBITED.
3. A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER (OR OTHER DESIGN PROFESSIONAL AS ALLOWED BY THE NYS EDUCATION DEPARTMENT) SHALL INSPECT THE SANITARY FACILITIES (WATER SUPPLY, ANY WATER TREATMENT, AND SEWAGE DISPOSAL FACILITIES) AT THE TIME OF CONSTRUCTION. PRIOR TO OCCUPANCY OF THE DWELLING, THE ENGINEER SHALL CERTIFY TO THE ORANGE COUNTY DEPARTMENT OF HEALTH AND THE LOCAL CODE ENFORCEMENT OFFICER THAT THE FACILITIES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND THAT ANY SEPTIC TANK JOINTS HAVE BEEN SEALED AND TESTED FOR WATER TIGHTNESS. A COPY OF THE NYSDEC WELL COMPLETION REPORT MUST ALSO BE PROVIDED.

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	18	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHEETS OF THE DENOTED PLAN SET(S).

COPIES OF THIS DOCUMENT WITHOUT AN ACTUAL OR FACSIMILE OF THE ENGINEER'S SIGNATURE AND AN ORIGINAL STAMP IN RED OR BLUE INK SHALL BE CONSIDERED INVALID.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS DOCUMENT BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER IS A VIOLATION OF SECTION 7209 SUBSECTION 2 OF THE NEW YORK STATE EDUCATION LAW.

JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080023

0 1 2 3
ORIGINAL SCALE IN INCHES

ENGINEERING & SURVEYING PROPERTIES, P.C.
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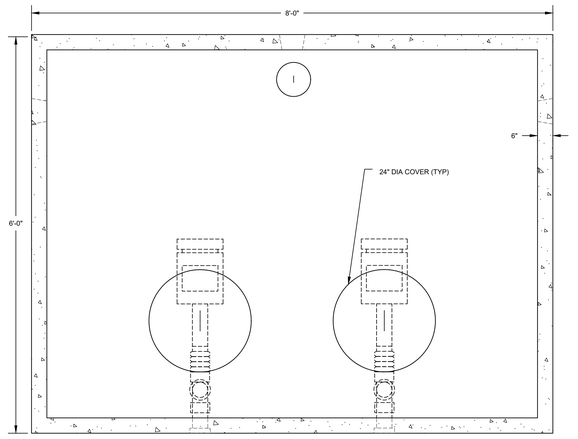
MONTGOMERY OFFICE
71 CLINTON STREET
MONTGOMERY, NY 12549
Ph: (845) 457-7727
WWW.EP-PC.COM

DETAILS

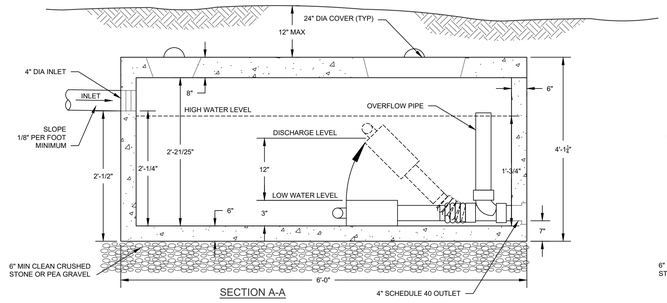
RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	
DATE: 01/23/19	SCALE: AS NOTED	C-301
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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PLAN VIEW
SINGLE SIPHON



SECTION A-A

NOTES:

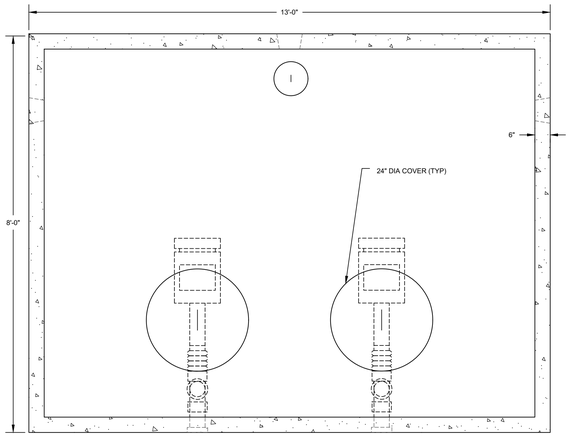
1. SIPHON CHAMBER AS MANUFACTURED BY LHV PRECAST MODEL DOSING TANK TYPE 2 OR APPROVED EQUAL
2. SIPHONS AS MANUFACTURED BY RISSY PRODUCTS 12" OR APPROVED EQUAL.
3. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
4. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
5. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
6. THERE SHALL BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE DOSING CHAMBER TO THE SEPTIC TANK ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
7. HIGHWATER ALARMS ARE RECOMMENDED AND ARE TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

DOSING VOLUME CALCULATIONS:

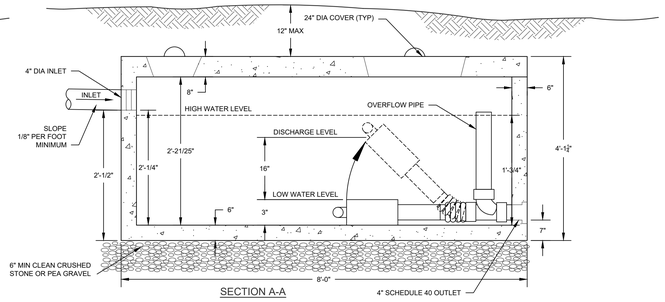
510 LF x (3.14)(.333)^2/4 = 44.5 CF x 7.48 GAL/CF = 333 GALLONS
TRY 12" DRAW DUAL SIPHON / 262 GALLON DOSE
262 GAL / 333 GAL = 79% (OK)
USE 12" DRAW DUAL SIPHON / 262 GALLON DOSE

262 GALLON DOSE SIPHON CHAMBER

SCALE: NTS



PLAN VIEW
SINGLE SIPHON



SECTION A-A

NOTES:

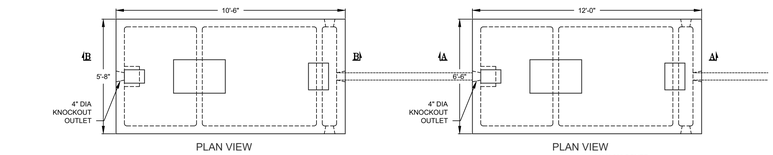
1. SIPHON CHAMBER AS MANUFACTURED BY LHV PRECAST MODEL DOSING TANK TYPE 5 OR APPROVED EQUAL
2. SIPHONS AS MANUFACTURED BY RISSY PRODUCTS 16" OR APPROVED EQUAL.
3. MINIMUM CONCRETE STRENGTH 4,000 PSI AT 28 DAYS
4. CONCRETE TO BE FIBER REINFORCED PER MANUFACTURER'S SPECIFICATION
5. SEAL ALL JOINTS AT INLET/OUTLET PIPES ASPHALTIC MATERIAL OR EQUIVALENT
6. THERE SHALL BE AN UNINTERRUPTED POSITIVE SLOPE FROM THE DOSING CHAMBER TO THE SEPTIC TANK ALLOWING SEPTIC GASES TO DISCHARGE THROUGH THE STACK VENT.
7. HIGHWATER ALARMS ARE RECOMMENDED AND ARE TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

DOSING VOLUME CALCULATIONS:

1400 LF x (3.14)(.333)^2/4 = 122.2 CF x 7.48 GAL/CF = 914 GALLONS
TRY 16" DRAW DUAL SIPHON / 718 GALLON DOSE
718 GAL / 914 GAL = 79% (OK)
USE 16" DRAW DUAL SIPHON / 718 GALLON DOSE

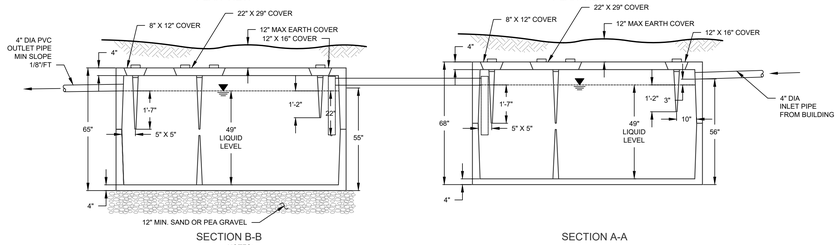
718 GALLON DOSE SIPHON CHAMBER

SCALE: NTS



PLAN VIEW

PLAN VIEW



SECTION B-B

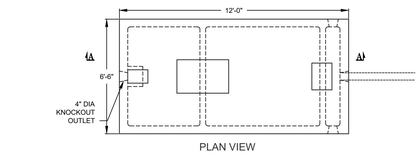
SECTION A-A

NOTES:

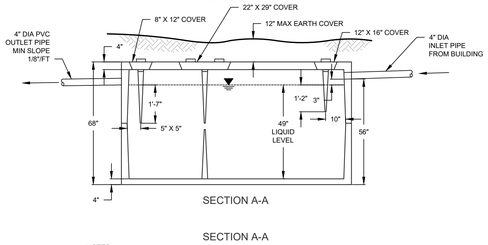
1. PRECAST CONCRETE SEPTIC TANKS AS MFG. BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL ST 2000 & MODEL ST 1500 OR APPROVED EQUAL.
2. CONCRETE - 4,000 PSI AT 28 DAYS.
3. REINFORCEMENT - 6" x 6" x 10 GA WIRE MESH.
4. SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
5. ALL SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

SEPTIC TANKS IN SERIES DETAIL

SCALE: N.T.S.



PLAN VIEW



SECTION A-A

NOTES:

1. PRECAST CONCRETE SEPTIC TANKS AS MFG. BY WOODARD'S CONCRETE PRODUCTS, INC. MODEL ST 2000 OR APPROVED EQUAL.
2. CONCRETE - 4,000 PSI AT 28 DAYS.
3. REINFORCEMENT - 6" x 6" x 10 GA WIRE MESH.
4. SECTIONS TO BE SEALED WITH BUTYL RUBBER BASE CEMENT.
5. ALL SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED EVERY 2-3 YEARS.

2,000 GALLON SEPTIC TANK

SCALE: N.T.S.

INFILTRATION TEST RESULTS

TEST HOLE #	TEST HOLE DEPTH	TEST HOLE DIA	TIME	INFILTRATION TEST RUNS (WATER DROP IN INCHES OVER ONE HOUR)				AVERAGE DROP
12/27/18 IT-01	24"	8"	START	10:01 AM	11:03 AM	12:10 PM	1:15 PM	0.50
			FINISH	11:01 AM	12:03 PM	1:10 PM	2:15 PM	
			DROP	0.50	0.50	0.50	0.50	
12/27/18 IT-02	24"	8"	START	9:50 AM	10:59 AM	12:05 PM	1:10 PM	0.50
			FINISH	10:50 AM	11:59 AM	1:05 PM	2:10 PM	
			DROP	0.50	0.50	0.50	0.50	
12/27/18 IT-03	24"	8"	START	10:20 AM	11:25 AM	12:29 PM	1:32 PM	0.50
			FINISH	11:20 AM	12:25 PM	1:29 PM	2:32 PM	
			DROP	0.50	0.50	0.50	0.50	
12/27/18 IT-04	24"	8"	START	9:49 AM	11:03 AM	12:05 PM	1:07 PM	8.00
			FINISH	10:49 AM	12:03 PM	1:05 PM	2:07 PM	
			DROP	8.00	8.00	8.00	8.00	
12/27/18 IT-05	24"	8"	START	9:57 AM	11:05 AM	12:05 PM	1:10 PM	4.00
			FINISH	10:57 AM	12:05 PM	1:05 PM	2:10 PM	
			DROP	4.00	4.00	4.00	4.00	
12/27/18 IT-06	24"	8"	START	10:17 AM	11:19 AM	12:21 PM	1:22 PM	24.00
			FINISH	11:17 AM	12:19 PM	1:21 PM	2:22 PM	
			DROP	24.00	24.00	24.00	24.00	
12/27/18 IT-07	24"	8"	START	1:20 PM	1:45 PM	2:25 PM	3:25 PM	36.42
			FINISH	1:45 PM	2:23 PM	3:20 PM	4:25 PM	
			DROP	24.00 (57.60/hr)	24.00 (37.89/hr)	24.00 (26.18/hr)	24.00 (24.00/hr)	
08/13/19 IT-01	24"	8"	START	8:38 AM	9:38 AM	10:38 AM		14.17
			FINISH	9:38 AM	10:38 AM	11:38 AM		
			DROP	16.00	13.25	13.25		
08/13/19 IT-02	24"	8"	START	8:39 AM	9:40 AM	10:40 AM		4.50
			FINISH	9:39 AM	10:40 AM	11:40 AM		
			DROP	6.00	4.50	3.00		
08/13/19 IT-03	24"	8"	START	9:45 AM	10:47 AM	11:48 AM		19.75
			FINISH	10:45 AM	11:47 AM	12:48 PM		
			DROP	20.25	19.50	19.50		
08/13/19 IT-04	24"	8"	START	9:51 AM	10:51 AM	11:51 AM		19.00
			FINISH	10:51 AM	11:51 AM	12:51 PM		
			DROP	20.50	19.00	17.50		

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	19	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080023

0 1 2 3
ORIGINAL SCALE IN INCHES

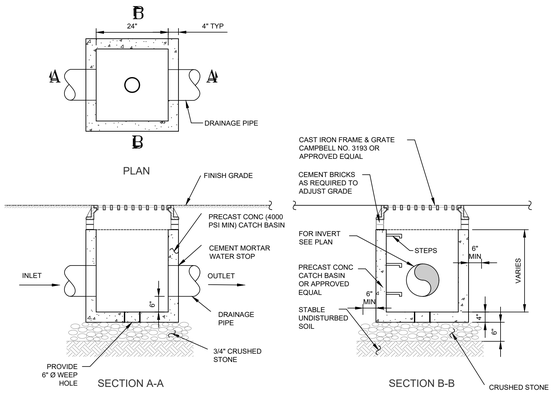
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ORANGE COUNTY, NEW YORK

JOB #:	1284.02	DRAWN BY:	JS	C-302
DATE:	01/23/19	SCALE:	AS NOTED	
REVISION:	12 - 08/16/2021	TAX LOT:	1-1-6	

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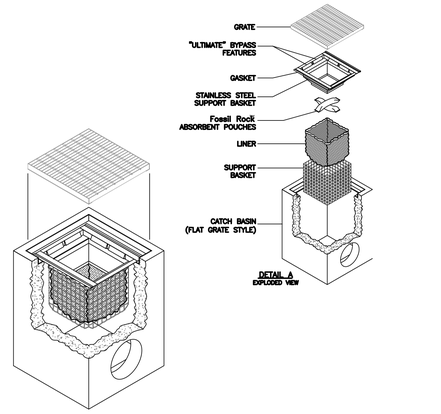


NOTES:

1. BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX 8" LIFTS.
2. PRECAST CONCRETE MANHOLE COMPONENTS BY WOODARDS CONCRETE PRODUCTS OR APPROVED EQUAL.

YARD DRAIN

SCALE N.T.S.

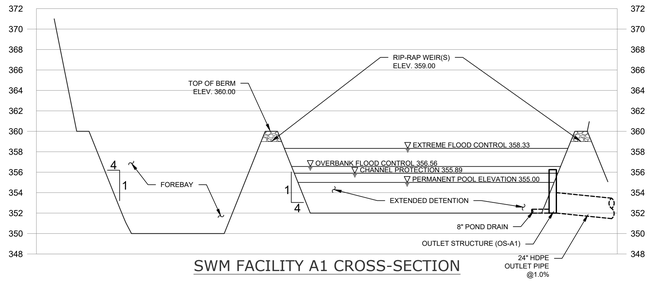


NOTES:

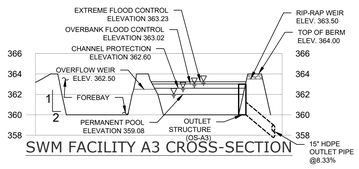
1. FILTER INSERT SHALL HAVE A HIGH FLOW BYPASS FEATURE.
2. FILTER SUPPORT FRAME SHALL BE CONSTRUCTED FROM STAINLESS STEEL TYPE 304.
3. FILTER MEDIUM SHALL BE *FOSSIL ROCK +*, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
4. FLOGARD+PLUS CATCH BASIN INSERT FILTERS SHALL BE SERVICED IN ACCORDANCE WITH MANUFACTURER RECCOMENDATIONS BUT AT A MIMIMUM OF BEING ON A RECURRING BASIS OF WHICH THE FREQUENCY SHALL BE A MINIMUM OF THREE TIMES PER YEAR, WITH A CHANGE OF FILTER MEDIUM ONCE PER YEAR.
5. FLOGARD+PLUS MODEL SHALL BE COORDINATED WITH THE MANUFACTURE TO ENSURE THE OPENING IS 30" X 48" TO MATCH THE CATCH BASIN OPENING

FLOGUARD+PLUS CATCHBASIN INSERT FILTER DETAIL

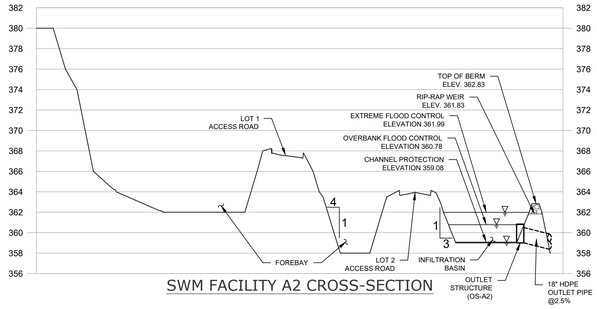
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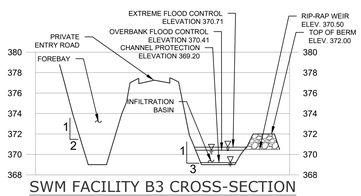
SWM FACILITY A1 CROSS-SECTION



SWM FACILITY A3 CROSS-SECTION

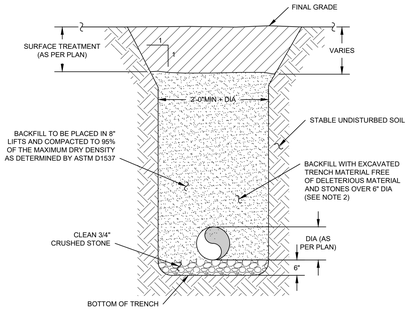


SWM FACILITY A2 CROSS-SECTION



SWM FACILITY B3 CROSS-SECTION

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
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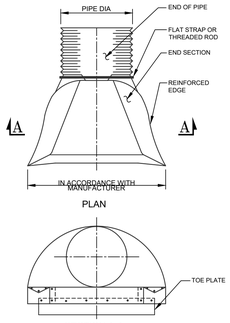


NOTES:

1. ALL FILL BELOW BUILDINGS, PAVEMENT AREAS, SIDEWALKS, CURBS, ETC; SHALL BE WITH R.O.B. GRAVEL (NYSDOT SPEC) FOR THE FULL DEPTH THE EXCAVATION. BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.
2. ALL DRAINAGE PIPE SHALL BE HDPE WITH A SMOOTH INVERT.
3. ALL EXCAVATION AND TRENCHING TO MEET OSHA REQUIREMENTS.

DRAINAGE PIPE TRENCH

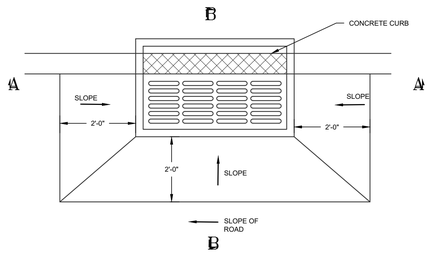
SCALE: NTS

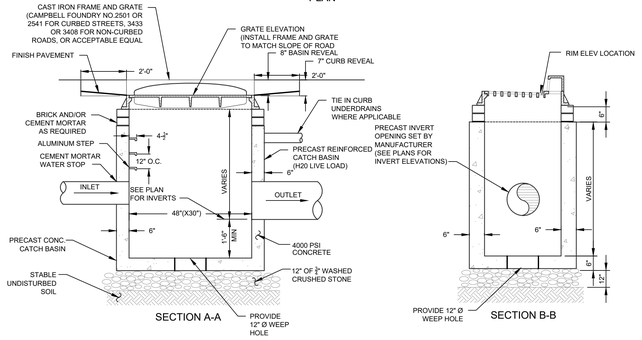


NOTE:
RIP-RAP TO BE PROVIDED AT THE END OF THE FLARED END SECTION AS PER PLANS.

FLARED END SECTION

SCALE: NTS



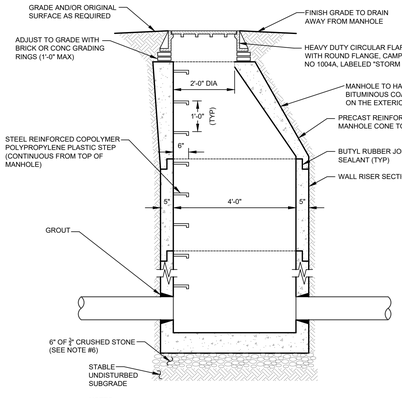


NOTES:

1. BACKFILL AROUND CATCH BASIN TO BE COMPACTED IN MAX 8" LIFTS.
2. PRECAST ALUMINUM STEPS SHALL BE PROVIDED FOR ALL BASINS GREATER THAN FOUR FEET IN DEPTH.
3. ALL FILL BELOW BUILDINGS, PAVEMENT AREAS, SIDEWALKS, CURBS, ETC; SHALL BE WITH R.O.B. GRAVEL (NYSDOT SPEC) FOR THE FULL DEPTH THE EXCAVATION. BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.
4. PRECAST CONCRETE BASIN BY WOODARDS CONCRETE PRODUCTS OR APPROVED EQUAL.
5. THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE OF CATCH BASIN.
6. ALL CATCHBASINS ONSITE SHALL HAVE A FLOGARD+PLUS CATCHBASIN INSERT FILTER (OR APPROVED EQUAL) INSTALLED.

CATCH BASIN

SCALE: NTS

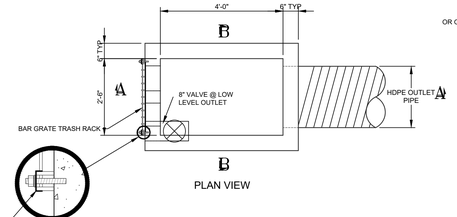


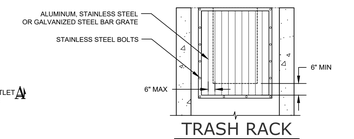
NOTES:

1. CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
2. REINFORCEMENT TO BE IN CONFORMANCE WITH ASTM A615 GRADE 60.
3. CONTRACTOR TO ORDER MANHOLE SECTIONS FROM MANUFACTURER TO MATCH REQUIRED ELEVATIONS AND INVERTS PER PLAN.
4. ANY MANHOLE WITHIN PAVEMENT AREA SHALL BE CAPABLE OF WITHSTANDING HS-20 LOADINGS.
5. PRECAST CONCRETE MANHOLE COMPONENTS BY WOODARDS CONCRETE PRODUCTS OR APPROVED EQUAL, .
6. FOR ANY STRUCTURE LOCATED WITHIN THE TOWN RIGHT-OF-WAY, CRUSHED STONE SUB-BASE SHALL BE A MINIMUM OF 12" IN THICKNESS.

DRAINAGE MANHOLE

SCALE: N.T.S.

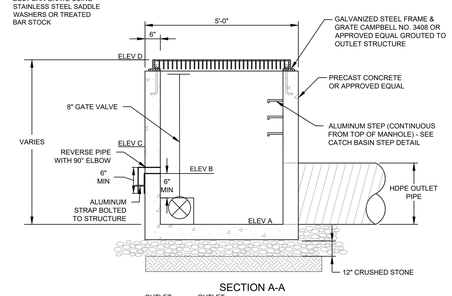




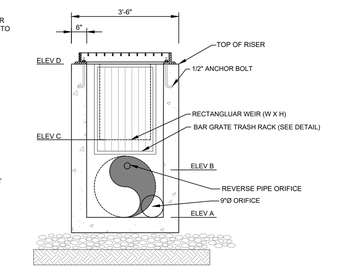
TRASH RACK

SCALE: NTS

NOTES:
1. BAR GRATE TRASH RACKS SHALL BE ALUMINUM, STAINLESS STEEL OR GALVANIZED STEEL, AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
2. TRASH RACKS SHALL BE DESIGNED SUCH THAT THE DIAGONAL DIMENSION OF EACH OPENING IS SMALLER THAN THE DIAMETER OF THE OUTLET PIPE.



SECTION A-A



SECTION B-B

STORMWATER FACILITY	OUTLET STRUCTURE DESIGNATION	OUTLET STRUCTURE TYPE	CULVERT / ORIFICES ELEV A (Ø)	CULVERT / ORIFICES ELEV B (Ø)	WEIR ELEV C (WIDTH)	RISER ELEV D	SPILLWAY ELEVATION	SPILLWAY LENGTH
A1	OS A1	BOX & WEIR	352.00 (24")	355.00 (3")	356.00 (2'-0" W)	356.25	359.00	24'
A2	OS A2-3	BOX & WEIR	358.00 (18")	N/A	N/A	361.00	361.83	26'
A2-A	OS A2-1	BOX ONLY	362.00 (24")	N/A	N/A	366.50	N/A	N/A
A2-B	OS A2-2	CULVERT ONLY	360.00 (24")	N/A	N/A	N/A	N/A	N/A
A3	OS A3	BOX & WEIR	360.00 (15")	362.00 (3")	N/A	363.00	363.50	28'
B3-1	OS-B3-1	BOX ONLY	368.00 (24")	N/A	N/A	372.00	N/A	N/A
B3-2	NONE	WEIR ONLY	N/A	N/A	N/A	N/A	370.00	24'

NOTES:
1. FOR LENGTH AND SLOPE OF OUTLET PIPE SEE PLAN.
2. THE 8" POND DRAIN SHALL BE EQUIPPED WITH A VALTERRA GATE VALVE AS MANUFACTURED BY AGRI DRAIN CORPORATION OR APPROVED EQUAL INSIDE THE OUTLET STRUCTURE.

DETENTION POND OUTLET STRUCTURE

SCALE: NTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
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☑ PLANNING BOARD APPROVAL	20	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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JOB #:	DRAWN BY:	
1284.02	JS	C-303
DATE: 01/23/19	SCALE: AS NOTED	
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EROSION & SEDIMENTATION CONTROL NOTES

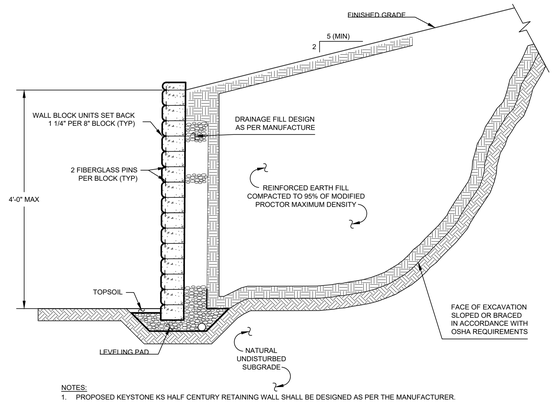
1. SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS.
2. ORANGE CONSTRUCTION FENCE LOCATIONS AROUND ALL SEPTIC SYSTEM AREAS SHALL BE STAKED BY A SURVEYOR AND INSTALLATION SHALL BE CONFIRMED BY THE ENGINEER. ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT THE SEPTIC AREAS. THE ORANGE CONSTRUCTION FENCING SHALL ONLY BE REMOVED AT TIME ACTUAL CONSTRUCTION OF THE SEPTIC SYSTEM.
3. TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES, TEMPORARY SWALES, STONE CHECK DAMS, TEMPORARY SEDIMENT BASINS, RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION OF THE PROPOSED ROADWAY OR DWELLING UNITS.
4. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL FOLLOWING DISTURBANCE TO STABILIZE BARE SOIL AND PROMOTE THE PROMPT RE-ESTABLISHMENT OF VEGETATION.
   4.1. AN ADEQUATE SEEDBED SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
   4.2. DISTURBED AREAS WHICH WILL REMAIN TEMPORARILY FALLOW FOR PERIODS GREATER THAN 30 DAYS SHALL BE SEEDED AT THE FOLLOWING RATE TO PRODUCE TEMPORARY GROUND COVER: 30 LBS. RYEGRASS (ANNUAL OR PERENNIAL) PER ACRE. DURING THE WINTER, USE 100 LBS. CERTIFIED "AROOSTOOK" WINTER RYE (CEREAL RYE) PER ACRE.
   4.3. PERMANENT SEEDING SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE:
   8 LBS EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER PER ACRE PLUS
   20 LBS TALL FESCUE PER ACRE. PLUS
   2 LBS REDTOP OR 5 LBS RYEGRASS (PERENNIAL) PER ACRE
   4.4. ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
   4.5. ALL DISTURBED AREAS SHALL BE STABILIZED SUBSEQUENT TO SEEDING BY APPLYING 2 TONS OF STRAW MULCH PER ACRE. STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR TUCKING THE MULCH WITH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES AND DRAINAGE STRUCTURES SHALL BE INSPECTED FOLLOWING EVERY RAIN EVENT, AND MAINTENANCE AND REPAIRS SHALL BE PERFORMED PROMPTLY TO MAINTAIN PROPER FUNCTION. TRAPPED SEDIMENT SHALL BE REMOVED AND DEPOSITED IN A PROTECTED AREA IN A PROPER MANNER WHICH WILL NOT RESULT IN EROSION.
6. TEMPORARY CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED AND GROUND COVER IS COMPLETELY REESTABLISHED. FOLLOWING STABILIZATION, TEMPORARY MEASURES SHALL BE REMOVED TO AVOID INTERFERENCE WITH DRAINAGE.
7. ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
8. SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY NOT BE USED.
9. MULCH NETTING SUCH AS PAPER, JUTE, EXCELSIOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE. OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
10. STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING SEEDING WITH THE FOLLOWING MIXTURE AND THEN COVERING WITH AN APPROVED ROLLED EROSION CONTROL PRODUCT:

MATERIAL	lbs./Acre
PERENNIAL RYE GRASS	30
CROWN VETCH	12
SPREADING FESCUE	25

11. OPTIMUM SEEDING PERIODS ARE 3/15-6/1 AND 8/1-10/15.
12. FOR CONSTRUCTION THAT OCCURS DURING WINTER MONTHS (i.e. NOVEMBER 15 - APRIL 1) ADDITIONAL MEASURES SHALL BE TAKEN IN ACCORDANCE WITH THE STANDARD & SPECIFICATIONS FOR WINTER STABILIZATION SECTION OF THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION CONTROL, LATEST VERSION AS PUBLISHED BY THE NYSDEC SUCH AS BUT NOT LIMITED TO THE FOLLOWING:
   - ENSURING COMPLIANCE WITH SNOW STORAGE STOCKPILE AREAS
   - SNOW STOCKPILES AT CONSTRUCTION ENTRANCE SHALL BE OUTSIDE THE STABILIZED CONSTRUCTION ENTRANCE TO ENSURE THE FUNCTIONALITY OF THE EROSION CONTROL MEASURE.
   - MAINTAIN BUFFERS TO ALL PERIMETER SILT FENCES.
   - INSTALL ADDITIONAL SILT FENCE AS NECESSARY FOR ANY DISTURBED AREAS UPGRADIENT OF A WATER BODY.
   - PROVIDE MAINTENANCE OF ALL DRAINAGE STRUCTURE TO KEEP CLEAR OF SNOW, ICE, DEBRIS, ETC.
   - IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN THREE (3) DAYS. ROLLED EROSION CONTROL BLANKETS MUST BE USED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL OR STEEPER.
   - IF STRAW MULCH ALONE IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE STANDARD RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER MANUFACTURED MULCHES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
   - TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL SHOULD BE STABILIZED AT THE END OF EACH WORK DAY UNLESS:
     - WORK WILL RESUME WITHIN 24 HOURS IN THE SAME AREA AND NO PRECIPITATION IS FORECAST OR;
     - THE WORK IS IN DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, FOUNDATIONS, EXCAVATIONS, OR WATER MANAGEMENT AREAS.
   - USE STONE PATHS TO STABILIZE ACCESS PERIMETERS OF BUILDINGS UNDER CONSTRUCTION AND AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED. STONE PATHS SHOULD BE A MINIMUM 10 FEET IN WIDTH BUT WIDER AS NECESSARY TO ACCOMMODATE EQUIPMENT.

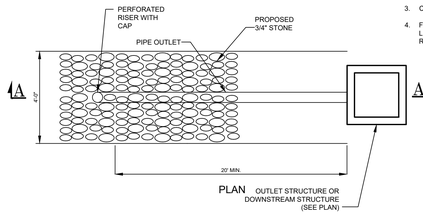
EARTHWORK CONSTRUCTION NOTES

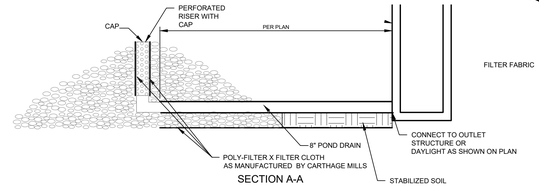
1. ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF WALLKILL.
2. ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
3. ALL FILL FOR POND CONSTRUCTION, BELOW BUILDINGS AND PAVEMENT TO BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
4. CELLAR, ROOF AND FOOTING DRAINS SHALL CONNECT TO THE STORM DRAINAGE SYSTEM OR OTHER FREE-FLOWING OUTLET AT A MINIMUM SLOPE OF 0.5%. FOOTING DRAIN SHALL BE INSTALLED BENEATH BOTTOM OF FOOTING.
5. COMPLETION OF GRADING AND BASIN, BERMS AFTER OCTOBER 15 SHALL REQUIRE MULCHING AND ANCHORING IN ACCORDANCE WITH NOTES ENTITLED "EROSION & SEDIMENT CONTROL".
6. ALL SLOPES IN EXCESS OF 3H:1V SHALL BE CONSTRUCTED WITH LOCALLY AVAILABLE GLACIAL TILL. THE EMBANKMENT FILL SHALL BE PLACED IN SIX-INCHTHICK LIFTS. EACH LIFT SHALL BE PLACED AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
7. CONSTRUCT POND EMBANKMENT WITH LOCALLY AVAILABLE GLACIAL TILL WITH 3H:1V SIDE SLOPES OR AS NOTED ON PLAN. THE EMBANKMENT FILL SHALL BE PLACED IN A SIX-INCH THICK CONTINUOUS LAYER OVER THE ENTIRE LENGTH.EACH LIFT SHALL BE PLACED AT OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR COMPACTION TEST ASTM D1557.
8. STABILIZATION OF POND BERMS, AND ALL SLOPES IN EXCESS OF 3H:1V IN ACCORDANCE WITH "EROSION AND SEDIMENTATION CONTROL NOTES".
9. SOIL RESTORATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT WILL REMAIN AS PERVIOUS SURFACES. SOIL RESTORATION SHALL CONSIST OF THE FOLLOWING:
   9.A. APPLY 3 INCHES OF COMPOST OVER SUBSOIL
   9.B. TILL COMPOST INTO SUBSOIL TO A DEPTH OF AT LEAST 12 INCHES USING A CAT-MOUNTED RIPPER, TRACTOR MOUNTED DISC, OR TILLER, MIXING, AND CIRCULATING AIR AND COMPOST INTO SUB-SOILS.
   9.C. ROCK-PICK UNTIL UPLIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
   9.D. APPLY TOPSOIL TO A DEPTH OF 6 INCHES.
   9.E. VEGETATE IN ACCORDANCE WITH LANDSCAPE PLAN.



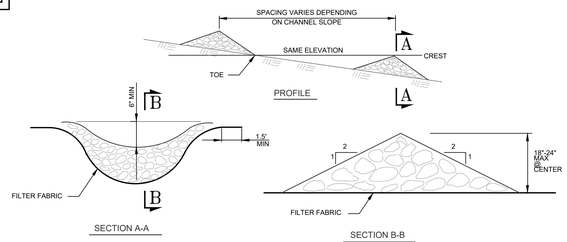
NOTES:
1. PROPOSED KEYSTONE KS HALF CENTURY RETAINING WALL SHALL BE DESIGNED AS PER THE MANUFACTURER.
2. FENCING SHALL BE INSTALLED FOR AS SHOWN ON THE PLANS, IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. COLORS TO MATCH FOUNDATION STONE.
4. FOR WALLS OVER HEIGHTS OF 4'-0", SIGNED & SELAED RETAINING WALL DESIGN PLANS SHALL BE PREPARED BY A NYS LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN OF HAMPTONBURGH BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

TYPICAL MSE RETAINING WALL
SCALE: N.T.S.





TEMPORARY STONE FILTER OUTLET
SCALE: N.T.S.



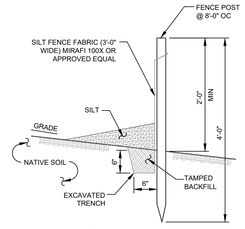
CONSTRUCTION SPECIFICATIONS:
1. STONE SHALL BE MAXIMUM SIZE OF 6" WITH 50 TO 100 PERCENT BY WEIGHT LARGER THAN 3" AND 0 TO 10 PERCENT SMALLER THAN 1/2".
2. FILTER FABRIC SHALL BE POLY-FILTER X CLOTH AS MANUFACTURED BY CARTHAGE MILLS
3. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION AT LOCATIONS SHOWN ON THE PLAN.
4. SET SPACING OF CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
5. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
6. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
7. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.

STONE CHECK DAM
SCALE: NTS

STORMWATER FACILITIES LONG TERM OWNERSHIP & MAINTENANCE REQUIREMENTS

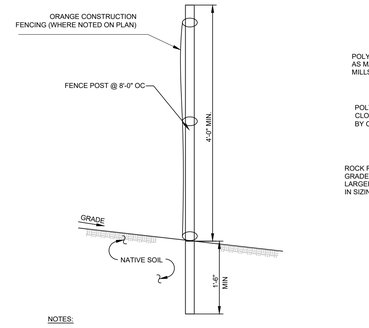
THE OWNERSHIP AND MAINTENANCE OF THE STORMWATER FACILITIES SHALL BE A COMBINATION OF PRIVATE INDIVIDUAL AND JOINT OWNERSHIP AND MAINTENANCE RESPONSIBILITIES. STORMWATER FACILITIES B2 AND A3 ARE DESIGNED TO HANDLE AND TREAT RUNOFF FROM THE PROPOSED PRIVATE ROADWAY AND THEREFORE SHALL BE MAINTAINED JOINTLY BY THE OWNERS OF ROAD LOT AS WELL AS LOTS 1 AND 2. STORMWATER FACILITIES B2 AND A3 ARE LOCATED WITHIN THE PROPOSED PRIVATE ROAD RIGHT OF WAY OR WITHIN AND EASEMENT GRANTING THE JOINT ENTITY THE ABILITY TO ACCESS AND MAINTAIN THE FACILITY. STORMWATER FACILITY A2 IS LOCATED ON LOT 1 AND LOT 2 AND WILL BE SHARED MAINTENANCE BETWEEN THE TWO LOT OWNERS THROUGH AND MAINTENANCE AGREEMENT AND THROUGH EASEMENTS. STORMWATER FACILITY A1 WILL BE OWNED AND MAINTAINED BY THE OWNER OF LOT 2. THE RESPONSIBLE ENTITY SHALL BE RESPONSIBLE TO ENSURE THAT ALL FACILITIES OPERATE AND FUNCTION AS DESIGNED THROUGH PROPER MAINTENANCE AS FOLLOWS.

1. REGULAR INSPECTION AND MAINTENANCE OF THE PROPOSED FACILITIES IS REQUIRED TO ENSURE ITS LONG-TERM WATER QUALITY AND QUANTITY REDUCTION FUNCTIONS. MAINTENANCE REQUIREMENTS FOR THE POND AND BIO-RETENTION AREA ARE AS FOLLOWS:
2. THE FOREBAY OF EACH FACILITY SHALL HAVE ACCUMULATED SEDIMENT REMOVED EVERY FIVE TO SIX YEARS OR WHEN THE ACCUMULATION LEVEL HAS REACHED 50% OF THE FOREBAY CAPACITY. THE 50% LEVEL WILL BE MEASURED AND INDICATED BY THE PERMANENT SEDIMENT MARKER INSTALLED IN THE FOREBAY AND PERMANENT SEDIMENT BASIN.
3. ALL CATCH BASINS AND OUTLET STRUCTURES SHALL BE INSPECTED ANNUALLY FOR DEBRIS AND OPERABILITY. ANY DEFICIENCIES SHALL BE REPAIRED OR REMOVED IMMEDIATELY.
4. THE SIDE SLOPES OF ALL FACILITIES SHALL BE MOWED AT A MINIMUM OF TWICE A YEAR.
5. FLOGARD+PLUS CATCH BASIN INSERT FILTERS SHALL BE SERVICED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS BUT AT A MINIMUM OF BEING ON A RECURRING BASIS OF WHICH THE FREQUENCY SHALL BE A MINIMUM OF THREE TIMES PER YEAR, WITH A CHANGE OF FILTER MEDIUM ONCE PER YEAR. FILTER MEDIUM SHALL BE *FOSSIL ROCK +*, INSTALLED AND MAINTAINED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
6. CATCH BASINS SHALL BE VACUUM CLEANED ONCE EVERY THREE YEARS OR IF DETERMINED NECESSARY UPON VISUAL INSPECTION.
7. THE FACILITIES AND CONVEYANCE COMPONENTS SHALL BE INSPECTED EVERY 6 MONTHS AND AFTER EVERY RAINFALL EVENT OF 1" OR MORE. THE INSPECTION SHOULD FOCUS ON SEDIMENTATION AND EROSION OR DAMAGE TO THE FACILITY. SEDIMENT MUST BE REMOVED EVERY FIVE YEARS OR WHEN IT ACCUMULATES TO A DEPTH OF 6 INCHES. TRASH AND DEBRIS SHALL BE REMOVED FROM THE FACILITY AS NECESSARY. IN ADDITION, MULCHING SHALL BE REPLACED AT A MINIMUM OF EVERY THREE YEARS OR AT SUCH TIME THAT THE FILTER MEDIA BECOMES EXPOSED.
8. A REMOVEABLE TRASH RACK TO BE PROVIDED ON THE OUTLET STRUCTURE TOP.
9. THE PROPERTY OWNERS SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL ENGINEER ON A YEARLY BASIS TO PERFORM AN INSPECTION OF ALL STORMWATER FACILITIES. THE INSPECTION SHALL INCLUDE A WRITTEN REPORT OF THE FINDINGS OF THE CURRENT OPERATION OF THE STORMWATER FACILITIES AND ANY ITEMS IN NEED OF REPAIR AND/OR MAINTENANCE. THE REQUIREMENT OF THIS ANNUAL INSPECTION SHALL BE INCLUDED IN THE COMMON MAINTENANCE AGREEMENT AND A COPY OF THE ANNUAL INSPECTION REPORT SHALL BE PROVIDED TO THE TOWN OF HAMPTONBURGH BUILDING DEPARTMENT AND TOWN ENGINEER.



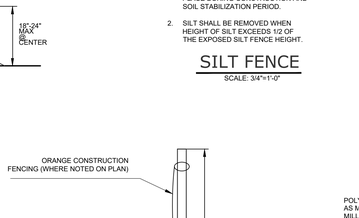
NOTES:
1. SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
2. SILT SHALL BE REMOVED WHEN HEIGHT OF SILT EXCEEDS 1/2 OF THE EXPOSED SILT FENCE HEIGHT.

SILT FENCE
SCALE: 3/4"=1'-0"



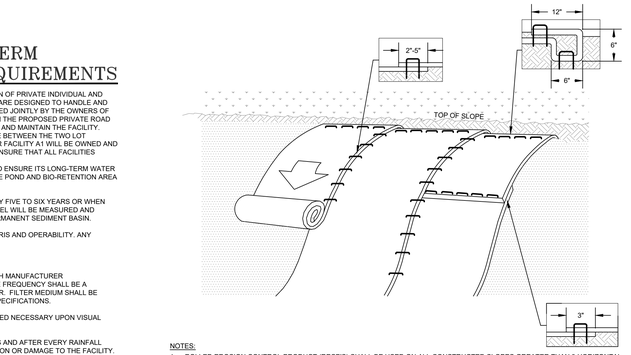
NOTES:
1. ORANGE CONSTRUCTION FENCE LOCATIONS SHALL BE STAKED BY A SURVEYOR AND INSTALLATION SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO ANY LAND DISTURBANCE WITHIN 125 FEET OF AN EXISTING WETLAND AND IN AREAS WHERE TREES AND STONE WALLS ARE TO BE PRESERVED.
2. ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT SENSITIVE AREAS.
3. THE ORANGE CONSTRUCTION FENCING WILL BE REMOVED UPON FINAL STABILIZATION OF ALL AREAS WITHIN 125 FEET OF FENCING.

ORANGE CONSTRUCTION FENCE
SCALE: N.T.S.



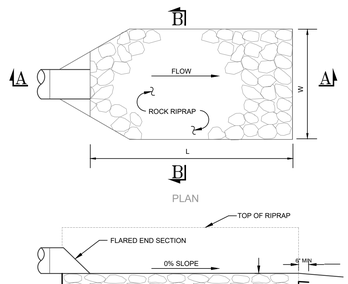
NOTES:
1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE SPECIFICATIONS (NYSDEC MANUAL) FOR INSTALLATION OF SILTFENCE.

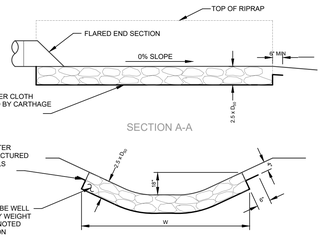
SOIL STOCKPILING
SCALE: NTS



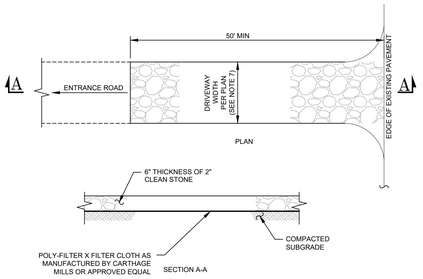
NOTES:
1. ROLLED EROSION CONTROL PRODUCT (RECP'S) SHALL BE USED ON ALL CONSTRUCTED SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL.
2. PREPARATION OF THE SOIL INCLUDING ANY NECESSARY APPLICATION OF SEED SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY RECP'S.
3. INSTALL RECP - NORTH AMERICAN GREEN BIONET S150BN OR APPROVED EQUAL BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S 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 RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACE APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
4. ROLL THE RECP'S DOWN THE SLOPE OR HORIZONTALLY ACROSS THE SLOPE. ALL RECP'S MUST BE SECURLY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE PRODUCT'S STAPLE PATTERN GUIDE.
5. THE EDGES OF PARALLEL RECPS MUST BE STAPLED WITH APPROXIMATELY 2" TO 5" OVERLAP DEPENDING ON RECP'S TYPE.
6. CONSECUTIVE RECP'S 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 THE ENTIRE RECP'S WIDTH.

SLOPE STABILIZATION (ROLLED EROSION CONTROL PRODUCT)
SCALE: NTS



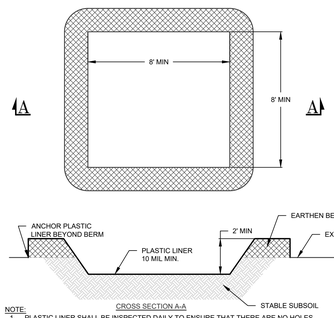


FES OUTLET PROTECTION
SCALE: NTS



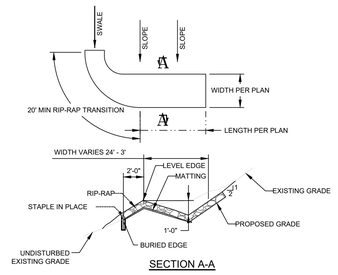
NOTES:
1. STONE SIZE - USE 2" STONE MIN, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. WIDTH - 30 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
3. SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
4. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRED PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
5. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
6. PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.
7. STABILIZED ENTRANCE FOR THE DRIVEWAY OF LOT 13 SHALL BE A MINIMUM OF 15' WIDE AND 50' LONG.

STABILIZED CONSTRUCTION ENTRANCE
SCALE: NTS



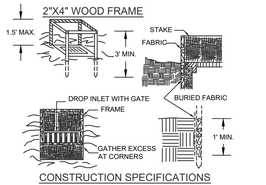
NOTE:
1. PLASTIC LINER SHALL BE INSPECTED DAILY TO ENSURE THAT THERE ARE NO HOLES OR TEARS. IF ANY HOLES OF TEARS ARE FOUND THE LINER SHALL BE REPLACED AND CLEANED IMMEDIATELY. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
2. WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.
3. ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF THE STORAGE CAPACITY OF THE STRUCTURE IS FILLED. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF.
4. DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL.

CONCRETE WASHOUT
SCALE: N.T.S.



CONSTRUCTION SPECIFICATIONS
1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 2'-0" OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH D_{50} = 6" RIP-RAP.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT RIP-RAP SWALE TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

LEVEL FLOW DISSIPATER
SCALE: NTS



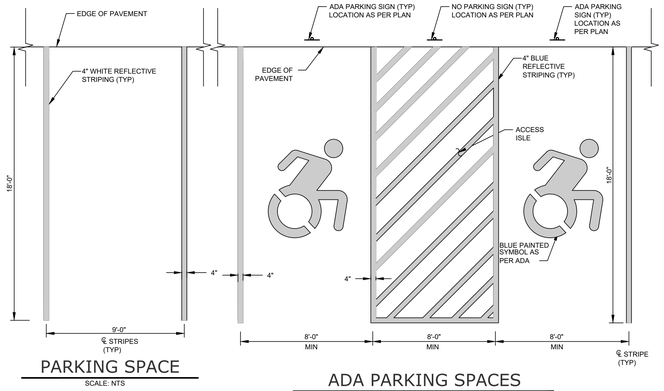
CONSTRUCTION SPECIFICATIONS
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. 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. MAXIMUN DRAINAGE AREA 1 ACRE

FILTER FABRIC DROP INLET PROTECTION
NOT TO SCALE

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	21	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

THIS PLAN SET HAS BEEN ISSUED SPECIFICALLY FOR THE APPROVAL OR ACTION NOTED ABOVE AND SHALL NOT BE USED FOR ANY OTHER PURPOSE.
THIS SHEET SHALL BE CONSIDERED INVALID UNLESS ACCOMPANIED BY ALL SHE

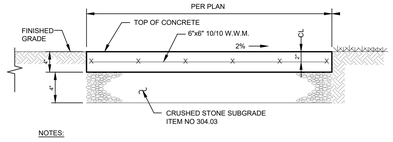


PARKING SPACE

SCALE: NTS

ADA PARKING SPACES

SCALE: NTS

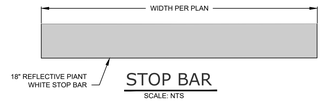


NOTES:

1. CURB EXPANSION JOINTS OF 1/4" PREFORMED BITUMINOUS COATED CELLULOSE OR SIMILAR MATERIAL AT TEN FOOT INTERVALS.
2. SIDEWALK EXPANSION JOINTS SHALL BE SPACED AT 20' INTERVALS AND SHALL BE 4" DEEP, EDGED WITH 1/4" RADIUS.
3. ALL CONCRETE FOR SIDEWALKS SHALL BE 4000 PSI AT 28 DAYS WITH TRANSVERSE BROOM FINISH AND CROSS SLOPE.
4. SIDEWALKS GREATER THAN 8% IN GRADE SHALL BE STEPPED IN ACCORDANCE WITH THE NEW YORK STATE BUILDING CODE REQUIREMENTS.

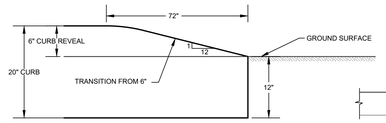
SIDEWALK DETAIL

SCALE: N.T.S.



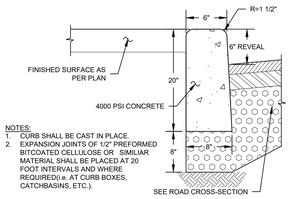
STOP BAR

SCALE: NTS



CONCRETE CURB TERMINATION

SCALE: N.T.S.

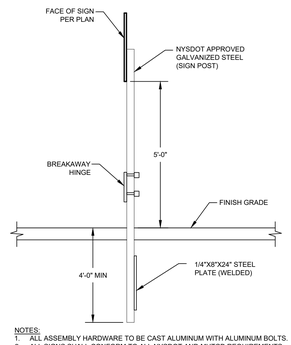


NOTES:

1. CURB SHALL BE CAST IN PLACE.
2. EXPANSION JOINTS OF 1/2" PREFORMED BITCOATED CELLULOSE OR SIMILIAR MATERIAL SHALL BE PLACED AT 20 FOOT INTERVALS AND WHERE REQUIRED(i.e. AT CURB BOXES, CATCHBASINS, ETC.).

CONCRETE CURB

SCALE: NTS

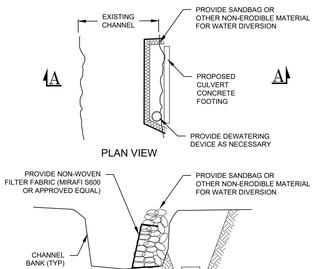


NOTES:

1. ALL ASSEMBLY HARDWARE TO BE CAST ALUMINUM WITH ALUMINUM BOLTS.
2. ALL SIGNS SHALL CONFORM TO ALL NYSDOT AND MUTCD REQUIREMENTS.

SIGN POST

SCALE: NTS



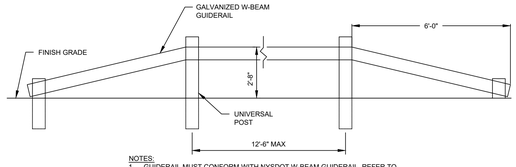
TEMPORARY COFFER DAM

SCALE: NTS

SIGN	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
NP	NO PARKING ANY TIME	R7-1	12" x 18"	GR MTD	WHITE BACKGROUND RED LETTERING
FL	NO PARKING FIRE LANE	R8-31	12" x 18"	GR MTD	WHITE BACKGROUND RED LETTERING
STOP	STOP	R1-1	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND
ADA	RESERVED PARKING VAN ACCESS	R7-8	18" x 24"	GR MTD	WHITE BACKGROUND BLUE SYMBOL GREEN LETTERING
DNE	DO NOT ENTER	R5-1	24" x 24"	GR MTD	WHITE BACKGROUND RED SYMBOL WHITE LETTERING
EVO	EMERGENCY VEHICLES ONLY	W11-8	18" x 24"	GR MTD	WHITE BACKGROUND RED LETTERING
NT	NO TRUCKS BEYOND THIS POINT		18" x 24"	GR MTD	WHITE BACKGROUND BLACK LETTERING
TER	TRUCKS MUST EXIT RIGHT		18" x 24"	GR MTD	WHITE BACKGROUND BLACK LETTERING
NTS		RA-2	24" x 24"	GR MTD	WHITE BACKGROUND BLACK LETTERING
LTS		M5-1	21" x 15"	GR MTD	WHITE BACKGROUND BLACK LETTERING
25MPH	SPEED LIMIT 25	R2-1	24" x 30"	GR MTD	WHITE BACKGROUND BLACK LETTERING

SIGN SCHEDULE

SCALE: N.T.S.

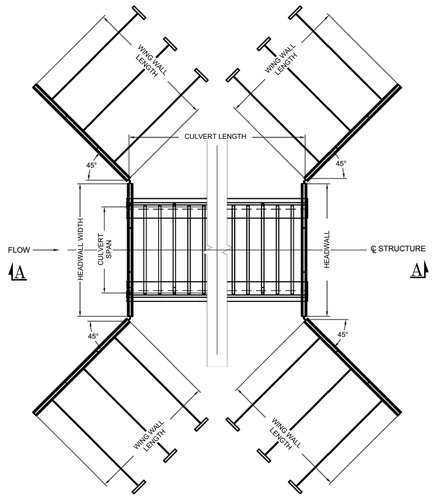


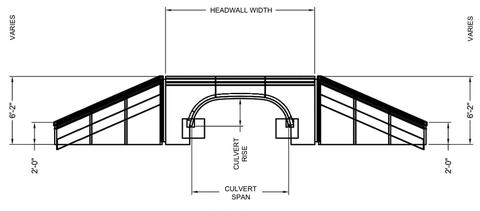
NOTES:

1. GUIDERAIL MUST CONFORM WITH NYSDOT W-BEAM GUIDERAIL. REFER TO NYSDOT STANDARD SHEETS 606-07.
2. THE RAIL COLOR SHALL MATCH EXISTING GUIDERAIL ALONG NEELYTOWN ROAD IN THE AREAS OF THE CULVERT REPLACEMENT.

W-BEAM GUIDE RAIL DETAIL

SCALE: NTS

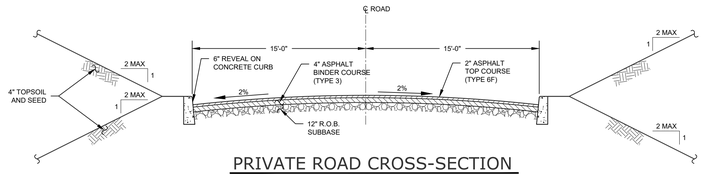




SECTION A-A

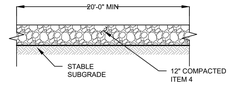
ALUMINUM BOX CULVERT SCHEDULE

LOCATION	CULVERT SPAN	CULVERT RISE	CULVERT LENGTH	HEADWALL WIDTH	HEADWALL LENGTH	CONTECH STRUCTURE #
PRIVATE ROADWAY	8'-9"	2'-6"	49'-9"	13'-6"	13'-6"	1
EMERGENCY ACCESS ROAD	8'-9"	2'-6"	31'-3"	13'-6"	4'-6"	1



PRIVATE ROAD CROSS-SECTION

SCALE: N.T.S.

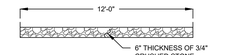


NOTES:

1. EMERGENCY ACCESS ROAD SHALL BE MAINTAINED TO ENSURE ADEQUATE AND SAFE USE BY EMERGENCY RESPONSE VEHICLES.
2. EMERGENCY ACCESS ROAD SHALL BE PLOWED WHEN A SNOWFALL OF 2" OR GREATER OCCURS.
3. SUBGRADE SHALL BE PROOF ROLLED PRIOR TO INSTALLATION OF ITEM 4.
4. ITEM 4 SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.

EMERGENCY ACCESS ROAD

SCALE: N.T.S.



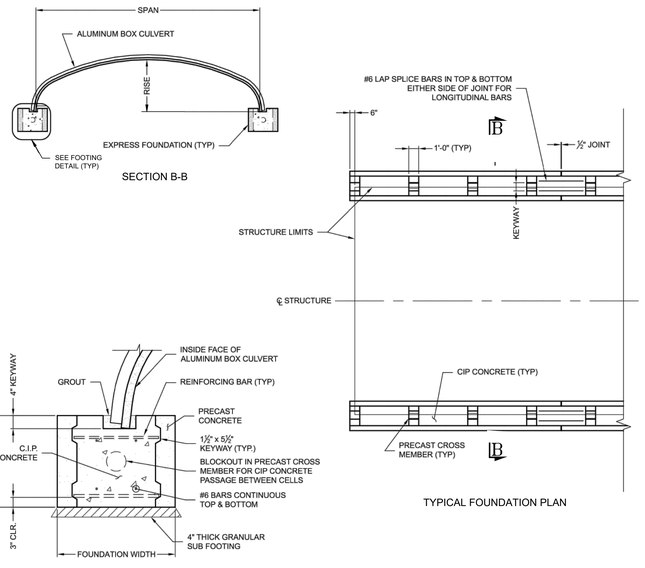
NOTE:

1. ROAD SHALL NOT EXCEED 10% GRADE

LOT 2 WELL GRAVEL ACCESS ROAD

SCALE: N.T.S.

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

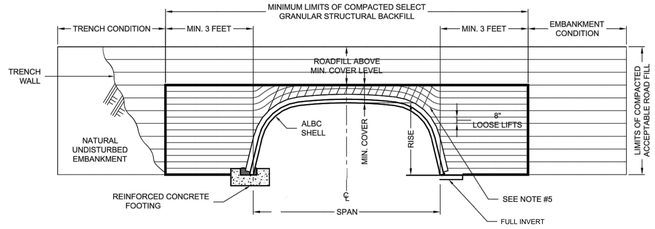


FOOTING DETAIL

TYPICAL FOUNDATION PLAN

NOTES:

1. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS. NORMAL FLOW SHOULD BE DIVERTED AWAY FROM THE WORK AREA BY MEANS OF A COFFERDAM AND DEWATERING AS NECESSARY.
2. ANY IN-CHANNEL EXCAVATIONS SHALL BE AVOIDED TO THE GREATEST EXTENT PRACTICAL BUT IF NECESSARY, IT SHALL BE DONE FROM THE TOP OF BANKS WITH NO MACHINERY PERMITTED WITHIN THE WATER CHANNEL AT ANY TIME.
3. ALL EXCAVATED MATERIALS MUST BE IMMEDIATELY REMOVED TO A DISPOSAL SITE HAVING AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN.
4. ALL WORK WITHIN DISTURBED AREAS SHOULD BE COMPLETED AND STABILIZED BEFORE FLOW IS REDIRECTED INTO IT. SUITABLE PROTECTION SHOULD BE PROVIDED FOR THE STREAM CHANNEL FROM ANY DISTURBED AREAS THAT HAVE NOT YET ACHIEVED STABILIZATION.
5. CONTRACTOR SHALL ENSURE ANY AND ALL OTHER EROSION/SEDIMENT CONTROL MEASURES APPLICABLE TO THIS AREA AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS IN THIS SET AND/OR AS DESCRIBED BY THE ENGINEER ONSITE DURING CONSTRUCTION ARE INSTALLED PRIOR TO ANY DISTURBANCE.



SECTION

SELECT GRANULAR STRUCTURAL BACKFILL LIMITS.

INITIAL LIFTS OVER THE CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH LIGHTWEIGHT(D-4 OR LIGHTER) EQUIPMENT.

NOTES:

1. ALL SELECT GRANULAR BACKFILL TO BE PLACED IN A BALANCED FASHION IN THIN LIFTS (8" LOOSE TYPICALLY) AND COMPACTED TO 90 PERCENT DENSITY PER AASHTO T-180.
2. COMPLETE AND REGULAR MONITORING OF THE ALUMINUM BOX CULVERT SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE.
3. PREVENT DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
4. TRENCH WIDTH OTHER THAN 3 FEET SHALL BE BY DIRECTION OF THE ENGINEER OF RECORD.
5. SWITCH TO PLACING SELECT GRANULAR BACKFILL NEAR IN RADIAL LIFTS THE MIDDLE OF THE HAUNCH CURVE.

ADDITIONAL SELECT GRANULAR STRUCTURAL BACKFILL NOTES:

SATISFACTORY BACKFILL MATERIAL, PROPER PLACEMENT, AND COMPACTION ARE KEY FACTORS IN OBTAINING MAXIMUM STRENGTH AND STABILITY.

THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND FOREIGN MATERIAL THAT COULD CAUSE HARD SPOTS OR DECOMPOSE TO CREATE VOIDS. BACKFILL MATERIAL SHOULD BE WELL GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF AASHTO M-145 FOR SOIL CLASSIFICATIONS A-1, A-2-4, A-2-5, OR A-3 MODIFIED.

SEE THE STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION TABLE ON THIS SHEET. BACKFILL MUST BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 8" LOOSE LIFTS. EACH LIFT IS TO BE COMPACTED TO A MINIMUM OF 90% DENSITY PER AASHTO T-180.

A HIGH PERCENTAGE OF SILT OR FINE SAND IN THE NATIVE SOILS SUGGESTS THE NEED FOR A WELL GRADED GRANULAR BACKFILL MATERIAL TO PREVENT SOIL MIGRATION. IF THE PROPOSED BACKFILL IS NOT A WELL-GRADED MATERIAL, A NON-WOVEN GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE SELECT BACKFILL AND THE IN SITU MATERIAL.

DURING BACKFILL, ONLY LIGHTWEIGHT TRACKED VEHICLES (D-4 OR LIGHTER) SHOULD BE NEAR THE STRUCTURE AS FILL PROGRESSES ABOVE THE CROWN AND TO THE FINISHED GRADE. THE ENGINEER AND CONTRACTOR ARE CAUTIONED THAT THE MINIMUM COVER MAY NEED TO BE INCREASED TO HANDLE TEMPORARY CONSTRUCTION VEHICLE LOADS (HEAVIER THAN D-4).

STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION, REFERENCE AASHTO M-145					
GROUP CLASSIFICATION	A-1-a	A-1-b	A-2-4	A-2-5	A-3
Sieve Analysis Percent Passing					
No. 10 (2.000 mm)	50 max.	----	----	----	----
No. 40 (0.425 mm)	30 max.	50 max.	----	----	51 max.*
No. 200 (0.075 mm)	15 max.	25 max.	35 max.	35 max.	10 max.
Atterberg Limits for Fraction Passing No. 40 (0.425 mm)					
Liquid Limits	----	----	40 max.	41 min.	----
Plasticity Index	6 max.	6 max.	10 max.	10 max.	Non Plastic
Usual Materials	Stone Fragment, Gravel and Sand		Silty or Clayey Gravel and Sand		Coarse Sand

*Modified from M-145.

Fine beach sands, windblown sands, stream deposited sands, etc., exhibiting fine, rounded particles and typically Classified by AASHTO M-145 as A-3 materials should not be used.

Reference the most current version of ASTM D2487, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), for comparable soil groups.

NOTES:

1. CULVERTS TO BE CONTECH ALUMINUM BOX CULVERT STRUCTURE AS SPECIFIED ABOVE OR APPROVED EQUAL.
2. ALL CULVERTS TO BE CAPABLE OF CARRYING H-25 LOADING.
3. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR EACH OF THE CULVERT INCLUDING ALL FOOTING DETAILS PRIOR TO CONSTRUCTION FOR ENGINEERS REVIEW.
4. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR EACH HEADWALLS PRIOR TO CONSTRUCTION FOR ENGINEERS REVIEW.
5. HEADWALLS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATION.
6. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS / DEISGN DRAWINGS FOR ALL FOOTINGS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS FOR THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

ALUMINUM BOX CULVERT(S)

SCALE: NTS

1.0 STANDARDS AND DEFINITIONS

1.1 STANDARDS - All standards refer to the current ASTM/AASHTO edition unless otherwise noted.

1.1.1 ASTM B-864 "Standard Specification for Corrugated Aluminum Box Culverts" (AASHTO Designation M-219).

1.1.2 AASHTO Standard Specification for Highway Bridges - Section 12 Division I - Design, AASHTO LRFD Bridge Design Specifications Section 12.

1.1.3 AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction, AASHTO LRFD Bridge Construction Specifications - Section 26. ASTM B789, Standard Practice for Installing Corrugated Aluminum Structural Plate Pipe.

1.2 DEFINITIONS

1.2.1 Owner - In these specifications the word "Owner" shall mean .

1.2.2 Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.

1.2.3 Manufacturer - In these specifications the word "Manufacturer" shall mean CONTECH ENGINEERED SOLUTIONS 800-338-1122 .

1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.

1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.

1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

2.0 GENERAL CONDITIONS

2.1 Any installation guidance provided herein shall be endorsed by the engineer; discrepancies herein are governed by the Engineer's plans and specifications.

2.2 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.

2.3 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.

If conditions other than those indicated are discovered by the Contractor, the Owner shall be notified immediately. The material which the Contractor believes to be a changed condition shall not be disturbed so that the owner can investigate the condition.

2.4 The construction shall be performed under the direction of the Engineer.

2.5 All aspects of the structure design and site layout including foundations, backfill, and treatments and necessary scour consideration shall be performed by the Engineer.

3.0 ASSEMBLY AND INSTALLATION

3.1 Bolts and nuts shall conform to the requirements of ASTM A-307 and/or ASTM A-449. The box culvert shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations.

Bolts shall be tightened using an applied torque of between 100 and 150 ft.-lbs.

3.2 The box culvert shall be installed in accordance with the plans and specifications, the manufacturer's recommendations, and AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction/AASHTO LRFD Bridge Construction Specifications - Section 26. ASTM B789.

3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.

3.4 Aluminum Box Culvert designs require a minimum allowable soil-bearing pressure of 4,000 psf. Lower bearing capacities may be accommodated with a site specific design for an aluminum foundation or a concrete footing.

If the engineer determines the natural foundation is inadequate to support the structure's backfill, the poor material shall be excavated, removed and replaced to a suitable depth with competent material. The specific depth of excavation required may be reduced by utilizing a geosynthetic reinforced foundation as designed by a qualified geotechnical engineer. For additional information contact your local Contech representative.

3.5 When a metal foundation is used, the soil bedding requires a minimum of 6 inches of loose granular material with a maximum particle size of one half the corrugation depth. The proper width of the bedding material required shall conform to the project plans and specifications.

Bedding preparation is critical to both structure performance and service life. The bedding should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.

3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unloaded and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.

When installed on a full invert or on flexible footing pads, assembly of the invert or footing pads shall start at the downstream end. Circumferential seam laps shall shingle over the top of the downstream plates as assembly progresses upstream. Whether the box culvert is installed on a concrete footing, full metal invert, or flexible footing pad, assembly of the structure shall shall start at the upstream end. Downstream rings of plates shall be assembled outside of the upstream rings (Circumferential seams are shingled downstream when viewed from the inside of the shell).

3.7 The structure shall be backfilled using clean well graded granular material that meets the requirements for soil classifications A-1, A-2-4, A-2-5, or A-3 modified per AASHTO M-145. See the structural plate backfill group classification table on this sheet.

Backfill must be placed symmetrically on each side of the structure in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180.

3.8 Standard highway loads that meet the permissible design load limits for an Aluminum Box Culvert are not allowed on the structure until it is backfilled completely and pavement is in place.

The addition of temporary soil for heavy construction loads is not feasible or permissible for Aluminum Box Culverts. By design, these structures are limited in the range of permissible fill heights and live loads.

Heavy construction loads that exceed that of the particular highway live load design limits are not allowed on Aluminum Box Culverts without approval from the Engineer.

3.9 If an aluminum headwall and/or wingwall system is specified, the select granular structural backfill limits shall extend past the deadman anchor system. Contact the Engineer if stiff material or rock is encountered where the wingwalls and deadmen are to be installed.

DRAWING STATUS	ISSUE DATE: 08/16/2021		
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	SHEET NUMBER		
☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	22	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080023

0 1 2 3
ORIGINAL SCALE IN INCHES

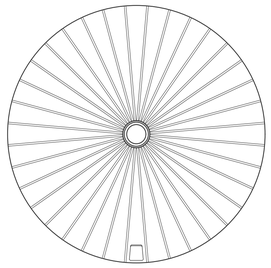
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DETAILS

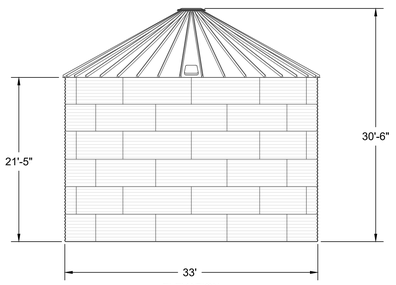
RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1284.02	DRAWN BY: JS	
DATE: 01/23/19	SCALE: AS NOTED	C-305
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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PLAN

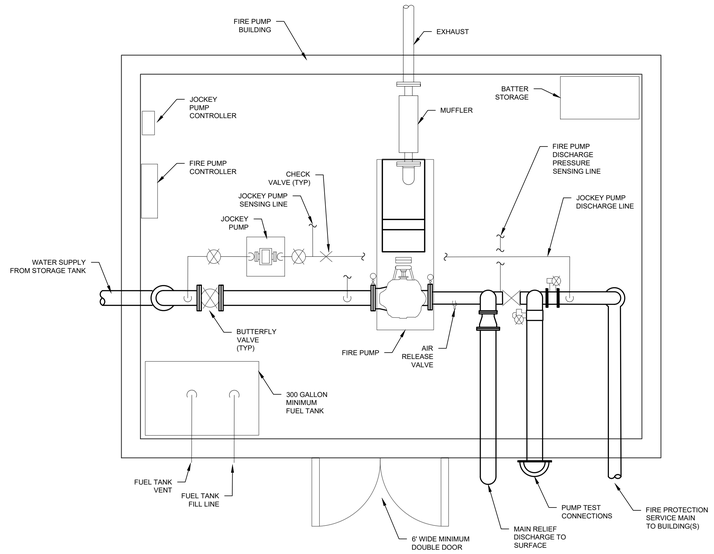


ELEVATION

NOTES
1. WATER STORAGE TANK SHALL BE CONSTRUCTED TO STORE A MINIMUM OF 125,000 GALLONS OF WATER AND AS MANUFACTURED BY GEI WORKS (MODEL 33' DIAMETER, 136,000 GALLON) OR APPROVED EQUAL.
2. THE WATER STORAGE TANK AND ALL APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL MANUFACTURER REQUIREMENTS.
3. A CONCRETE FOUNDATION DESIGN SHALL BE PREPARED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER AND SUBMITTED TO THE TOWN OF HAMPTONBURGH BUILDING INSPECTOR FOR APPROVAL PRIOR TO CONSTRUCTION.

FIRE PROTECTION WATER STORAGE TANK

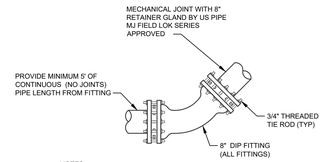
SCALE: N.T.S.



NOTES
1. FIRE PUMP BUILDING SHALL BE DESIGNED BY A N.Y.S LICENSED ENGINEER OR ARCHITECT AND SHALL BE SUBMITTED TO THE TOWN OF HAMPTONBURGH BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.
2. A COMPLETE SPRINKLER DESIGN FOR EACH PROPOSED WAREHOUSE BUILDING SHALL BE SUBMITTED TO THE TOWN OF HAMPTONBURGH BUILDING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

FIRE PUMP BUILDING SCHEMATIC

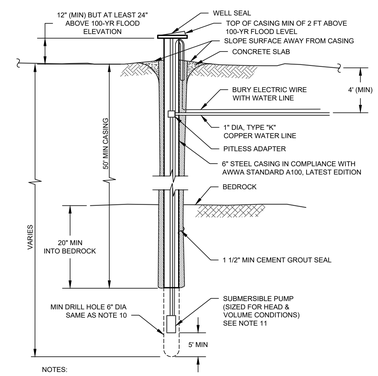
SCALE: N.T.S.



NOTES:
1. 45° BENDS REQUIRE RESTRAINTS OF ALL JOINTS WITHIN 11 FEET OF FITTING. 22.5° BENDS REQUIRE RESTRAINTS OF ALL JOINTS WITHIN 6 FEET OF FITTING. 11.25° BENDS REQUIRE RESTRAINTS OF ALL JOINTS WITHIN 3 FEET OF FITTING.
2. ALL BONNET NUTS SHALL BE STAINLESS STEEL.
3. ALL BOLTS SHALL BE COR-BLUE OR APPROVED EQUAL.

PIPE RESTRAINT (RETAINER GLAND) DETAIL

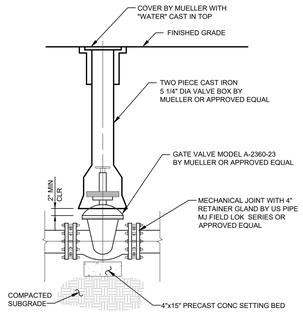
SCALE: NTS



NOTES:
1. WELL IS TO BE CASED AND GROUTED FOR A MIN OF 50' IN LENGTH.
2. CASING SHALL EXTEND MINIMUM 20" INTO BEDROCK.
3. OVERSIZE DRILL HOLE (FOR GROUTING) TO BE 10" DIAMETER.
4. EXPECTED DEPTH OF LOAM AND SHALE OVERBURDEN = 5 - 30 FEET
5. EXPECTED DEPTH OF WATER BEARING FORMATION = 300 - 600 FEET
6. THE WELL CASING TO CONFORM TO AWWA STANDARD A100 (LATEST EDITION).
7. SANITARY WELL SEAL SHALL BE MONITOR MODEL NO 6WE-1, MFG BY THE BAKER MFG CO; EVANSVILLE, WIS., OR APPROVED EQUAL AND SHALL HAVE THE APPROVAL OF THE WATER SYSTEMS COUNSEL.
8. PITLESS ADAPTOR SHALL BE MONITOR MODEL NO 8PL61U, MFG BY THE BAKER MFG CO; EVANSVILLE, WIS., OR APPROVED EQUAL AND SHALL HAVE THE APPROVAL OF THE WATER SYSTEMS COUNSEL.
9. DISCHARGE PIPE : 1" MIN OF TYPE "K" COPPER WATER LINE
10. WATER SERVICE LINES UNDER PRESSURE SHALL NOT PASS CLOSER THAN 10' OF A SEPTIC TANK, TILE FIELD, OR ANY OTHER PART OF A SEWAGE DISPOSAL SYSTEM.
11. PVC PIPE WITH O-RING JOINTS ARE REQUIRED FOR SEWAGE LINES BETWEEN 25 AND 50 FEET OF ANY WELL.
12. MIN. WELL YIELD TO BE A MINIMUM OF 2 GAL PER MINUTE. ANY WELL PRODUCING BETWEEN 2-5 GPM REQUIRES 24 HOURS OF STORAGE WITHIN HOME.
13. CEMENT GROUT SHALL BE A MIXTURE OF 1 BAG CEMENT (94 LBS) AND 5 1/2 GAL OF CLEAN WATER.
14. ELECTRICAL WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
15. CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN THE PUBLICATION "RURAL WATER SUPPLY", NYS DEPT OF HEALTH, LATEST EDITION.
16. WELLS ARE TO BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLAN TO ASSURE THE MINIMUM SEPARATION DISTANCES ARE MET.

TYPICAL DRILLED WELL SECTION

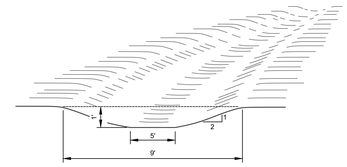
SCALE: NTS



NOTES:
1. ALL BONNET NUTS SHALL BE STAINLESS STEEL.
2. ALL BOLTS SHALL BE COR-BLUE OR APPROVED EQUAL.
3. VALVE BOX MUST BE NORTH AMERICAN MANUFACTURE

VALVE AND VALVE BOX

SCALE: NTS

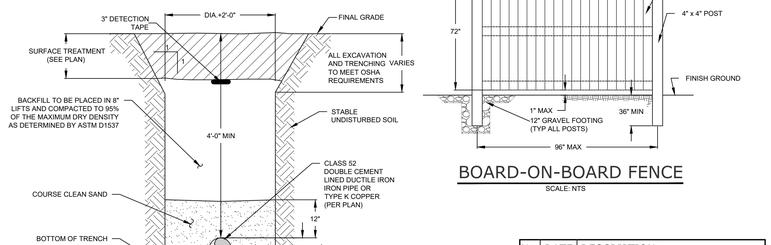


CHANNEL CROSS-SECTION

CONSTRUCTION SPECIFICATIONS:
1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
2. THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF OUTSIDE THE WETLAND SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
4. STABILIZATION SHALL BE DONE ACCORDING TO THE APPROPRIATE STANDARDS AND SPECIFICATIONS FOR VEGETATIVE PRACTICES. SEEDING AND MULCHING SHALL BE USED FOR ESTABLISHMENT OF THE VEGETATION. VEGETATION PROVIDED SHALL BE REED CANARYGRASS, TALL FESCUE, KENTUCKY BLUEGRASS OR AN APPROVED EQUAL.

TEMPORARY GRASSED SWALE

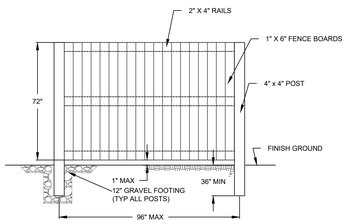
SCALE: NTS



NOTES:
1. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND SHALL PERFORM ALL WORK REQUIRED IN CONNECTION WITH THE TESTS. ALL PIPE SHALL BE TESTED BY HYDROSTATIC PRESSURE, FIFTY (50) PERCENT IN EXCESS OF THE NORMAL PSI WORKING PRESSURE IN ACCORDANCE WITH AWWA SPECIFICATION C_600, LATEST REVISION. EACH SECTION TESTED SHALL BE SLOWLY FILLED WITH WATER, CARE BEING TAKEN TO EXPEL ALL AIR FROM THE PIPES. IF NECESSARY, THE PIPES SHALL BE TAPPED AT HIGH POINTS TO VENT THE AIR. REQUIRED PRESSURE, AS MEASURED AT THE POINT OF LOWEST ELEVATION, SHALL BE APPLIED FOR NOT LESS THAN TWO (2) HOURS, AND ALL PIPE, FITTINGS, VALVES, HYDRANTS AND JOINTS SHALL BE CAREFULLY EXAMINED FOR DEFECTS. LEAKY JOINTS SHALL BE MADE WATERTIGHT.
2. A LEAKAGE TEST SHALL BE CONDUCTED CONCURRENTLY WITH THE PRESSURE TEST IN ACCORDANCE WITH AWWA SPECIFICATION C_600, LATEST REVISION. PERMISSIBLE LEAKAGE SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C_600, LATEST REVISION.
3. BEFORE BEING PLACED IN SERVICE, THE ENTIRE LINE SHALL BE CHLORINATED. CHLORINE MAY BE APPLIED BY THE FOLLOWING METHODS: LIQUID CHLORINE GAS, WATER MIXTURE, DIRECT CHLORINE GAS FEED, OR CALCIUM HYPOCHLORITE AND WATER MIXTURE. ALL DISINFECTING METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C_651, LATEST REVISION.

WATER PIPE TRENCH

SCALE: NTS



BOARD-ON-BOARD FENCE

SCALE: NTS

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12	08/16/21	REVISED PER ENGINEER COMMENTS



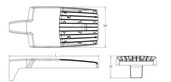
RSX2 LED
Area Luminaire

Catalog Number
Notes
Type

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

Specifications

EPA (ft²@0°): 0.69 ft² (0.06 m²)
Length: 29.3" (74.4 cm) (SPA mount)
Width: 13.4" (34.0 cm)
Height: 3.0" (7.6 cm) Main Body 7.2" (18.3 cm) Arm
Weight (max): 33.0 lbs (15.0 kg)



Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor and an adjustable integral slip-fitter are also available.

Ordering Information

EXAMPLE: RSX2 LED P6 40K R3 MVOLT SPA DDBXD

RSX2 LED

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX2 LED	P1	30K 3000K	R3 Type 3 Wide	MVOLT (120V-277V)	SPA Square pole mounting (Min. 3.0" OD for 1 at 90° Min. 3.5" OD for 2, 3, 4 at 90°)
	P2	40K 4000K	R4 Type 4 Wide	347/480 (347V-480V) [1]	RPA Round pole mounting (3.2" min pole dia. for 1,2,3 or 4 at 90°)
	P3	50K 5000K	R5 Type 5 Wide	(use specific voltage for options as noted)	
	P4		R5S Type 5 Short	120 [1] 277 [1]	XA Mast arm adaptor (fits 2-3/8" OD horizontal tenon)
	P5		AFR Automotive Front Row	208 [1] 347 [1]	IS Adjustable slipfitter (fits 2-3/8" OD tenon) [4]
	P6			240 [1] 480 [1]	WBA Wall bracket

Options		Finish	
Shipped Installed		DDBXD	Dark Bronze
HS	House-side shield	DBLXD	Black
PE	Photocontrol, button style [1,7]	DNAXD	Natural Aluminum
PEX	Photocontrol external threaded, adjustable [1,7]	DWHXD	White
PER7	Seven-wire twist-lock receptacle only (no controls) [1,8,9]	DDBTXD	Textured Dark Bronze
CE14	Conduit entry 3/4" NPT (Qty 2)	DBLBXD	Textured Black
SF	Single fuse (120, 277, 347) [1]	DNATXD	Textured Natural Aluminum
DF	Double fuse (208, 240, 480) [1]	DWHGXD	Textured White
SPD20KV	20KV Surge pack (10KV standard)		
FAO	Field adjustable output		
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)		
Shipped Separately (requires same field assembly)			
EGS	External glare shield		
EGFV	External glare full visor (360° around light aperture)		
BS	Bird spikes [2]		

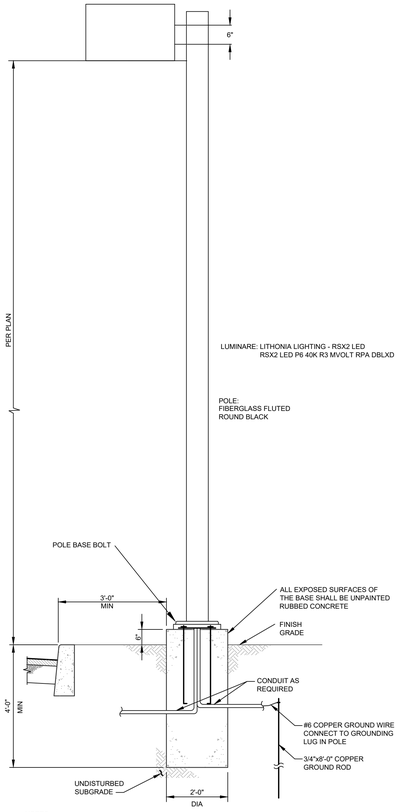
Shipped Installed	
***Standalone and Networked Sensors/Controls (factory default settings, see table page 3)**	
NLTAIR2	nLight AIR generation 2 [6,10]
PIRHN	Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) [1,9,10]

*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.

LITHONIA LIGHTING.

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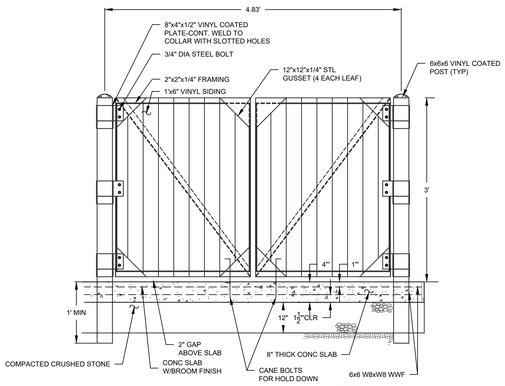
Lithonia RSX2 Area LED
Rev. 03/28/19
Page 1 of 5



NOTES:
1. ALL FIXTURES SHALL HAVE EXTERNAL GLARE SHIELDS INSTALLED.

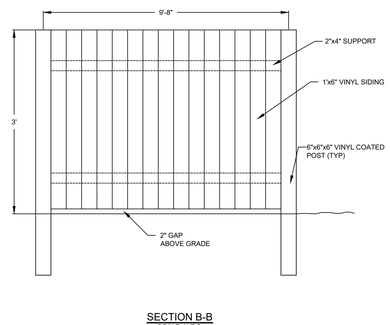
LIGHT

SCALE: NTS



SECTION A-A

SCALE: N.T.S.



SECTION B-B

SCALE: N.T.S.

NOTES:
1. ALL CONCRETE SHALL BE 4000 PSI AT 28 DAYS.
2. HARDWARE CLOTH (GALVANIZED WIRE MESH WITH ½ INCH SQUARE WEAVE) SHALL BE INSTALLED FROM THE GROUND TO 3 FEET UP THE SIDES OF ALL FIXED FENCES AROUND THE DUMPSTER ENCLOSURES AND DOG RUNS. ALTERNATIVELY THE FENCING CAN BE CONSTRUCTED TO HAVE LESS THAN A 1 INCH GAP.

DUMPSTER ENCLOSURE

SCALE: NTS

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☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	23	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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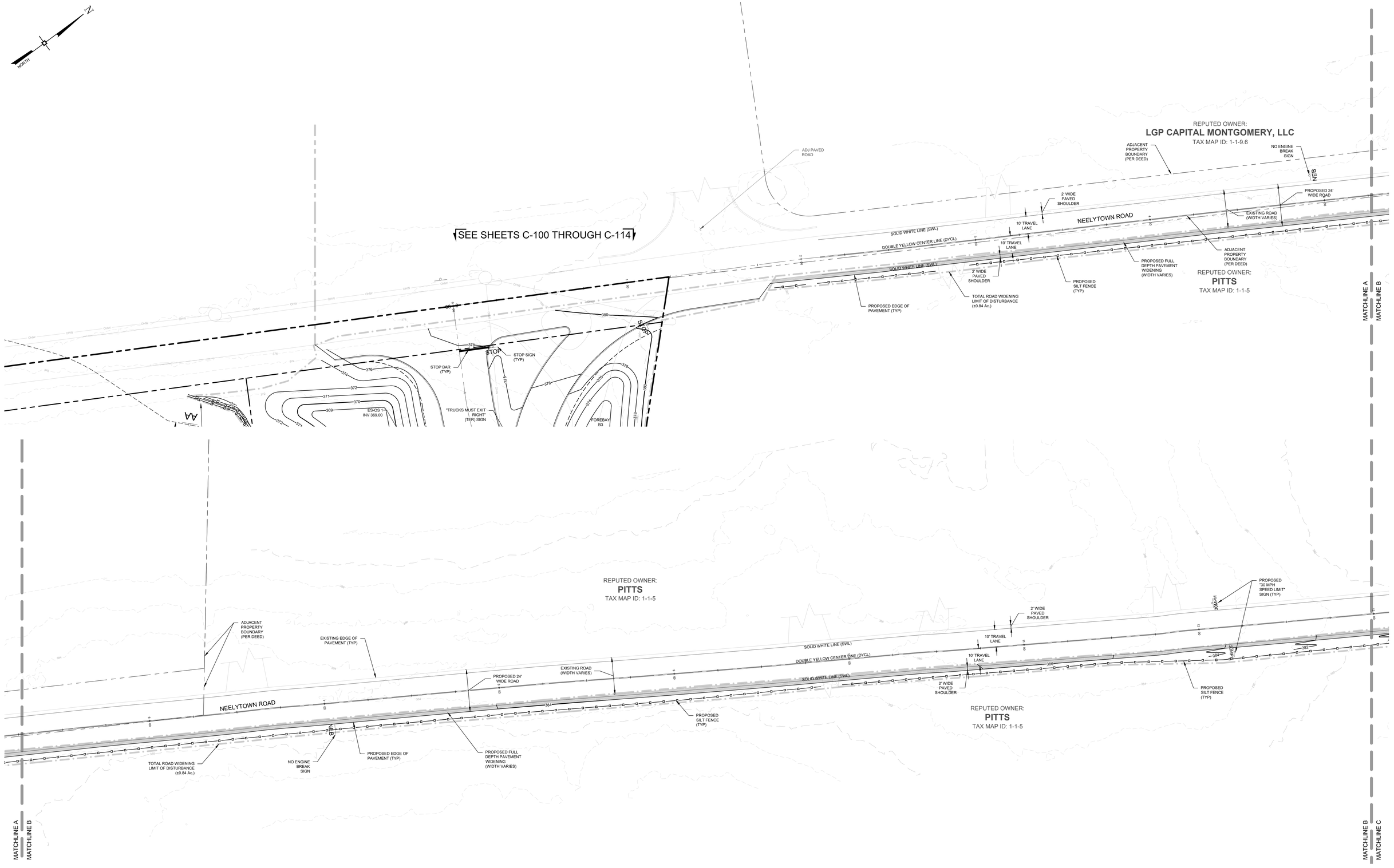
DETAILS

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #:	DRAWN BY:	
1284.02	JS	C-306
DATE: 01/23/19	SCALE: AS NOTED	
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NEELYTOWN ROAD IMPROVEMENT NOTES

1. THE APPLICANT SHALL BE RESPONSIBLE FOR THE FOLLOWING IMPROVEMENTS WITHIN OR ALONG THE NEELYTOWN ROAD RIGHT-OF WAY WHICH SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OF THE FIRST BUILDING CONSTRUCTED.

- THE DESIGN, PERMITTING, AND INSTALLATION OF THE REPLACEMENT OF THE CULVERT WITHIN THE NEELYTOWN R.O.W. JUST NORTH OF EAGER ROAD.
- THE APPLICANT SHALL BE RESPONSIBLE FOR THE NECESSARY EXPANSION OF NEELYTOWN ROAD TO ENSURE THAT THERE WILL BE A MINIMUM OF 24 FEET OF PAVEMENT WIDTH FROM THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY BOUNDARY TO THE PROJECT ENTRANCE. (SEE FULL DEPTH PAVEMENT DETAIL ON SHEET C-305).
- THE CULVERT SHALL BE REPLACED AND ANY REQUIRED PAVEMENT WIDENING SHALL BE COMPLETED PRIOR TO THE PAVEMENT OVERLAY DISCUSSED ABOVE.
- THE APPLICANT SHALL INSTALL A PETROMAT PAVING FABRIC AND A 2" ASPHALT TOP COURSE OVERLAY TO PROVIDE ADDITIONAL STRUCTURAL SUPPORT THE EXISTING ROADWAY TO MAINTAIN THE ROAD'S INTEGRITY. THE PAVING FABRIC AND ASPHALT OVERLAY OF NEELYTOWN ROAD FROM THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY MUNICIPAL BOUNDARY TO THE PROJECT ENTRANCE. (SEE PAVEMENT OVERLAY DETAIL ON SHEET C-305).
- PRIOR TO INSTALLATION OF THE PETROMAT AND ASPHALT OVERLAY, A SITE VISIT WITH THE DESIGN ENGINEER, TOWN ENGINEER, AND TOWN OF HAMPTONBURGH HIGHWAY SUPERINTENDENT SHALL OCCUR TO WALK THE WESTERN EDGE OF NEELYTOWN ROAD TO DETERMINE ANY AREAS OF BROKEN PAVEMENT EDGES, POTHOLES, ETC. THAT WILL BE REQUIRED TO BE SAWCUT AND REMOVED.
- THE APPLICANT SHALL INSTALL ADDITIONAL 30MPH SIGNS (SIGNS MUST COMPLY WITH ALL NYSDOT SPECIFICATIONS) ON NEELYTOWN ROAD IN BOTH DIRECTIONS IMMEDIATELY SOUTH OF INTERSECTION OF EAGER ROAD.
- THE APPLICANT SHALL INSTALL A "HILL BLOCKS VIEW" SIGN (MUTCD #W7-6) (SIGN MUST COMPLY WITH ALL NYSDOT SPECIFICATIONS) FACING THE NORTHBOUND TRAFFIC ON NEELYTOWN ROAD SOUTH OF THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY BOUNDARY.
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☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
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1 inch = 20 ft.

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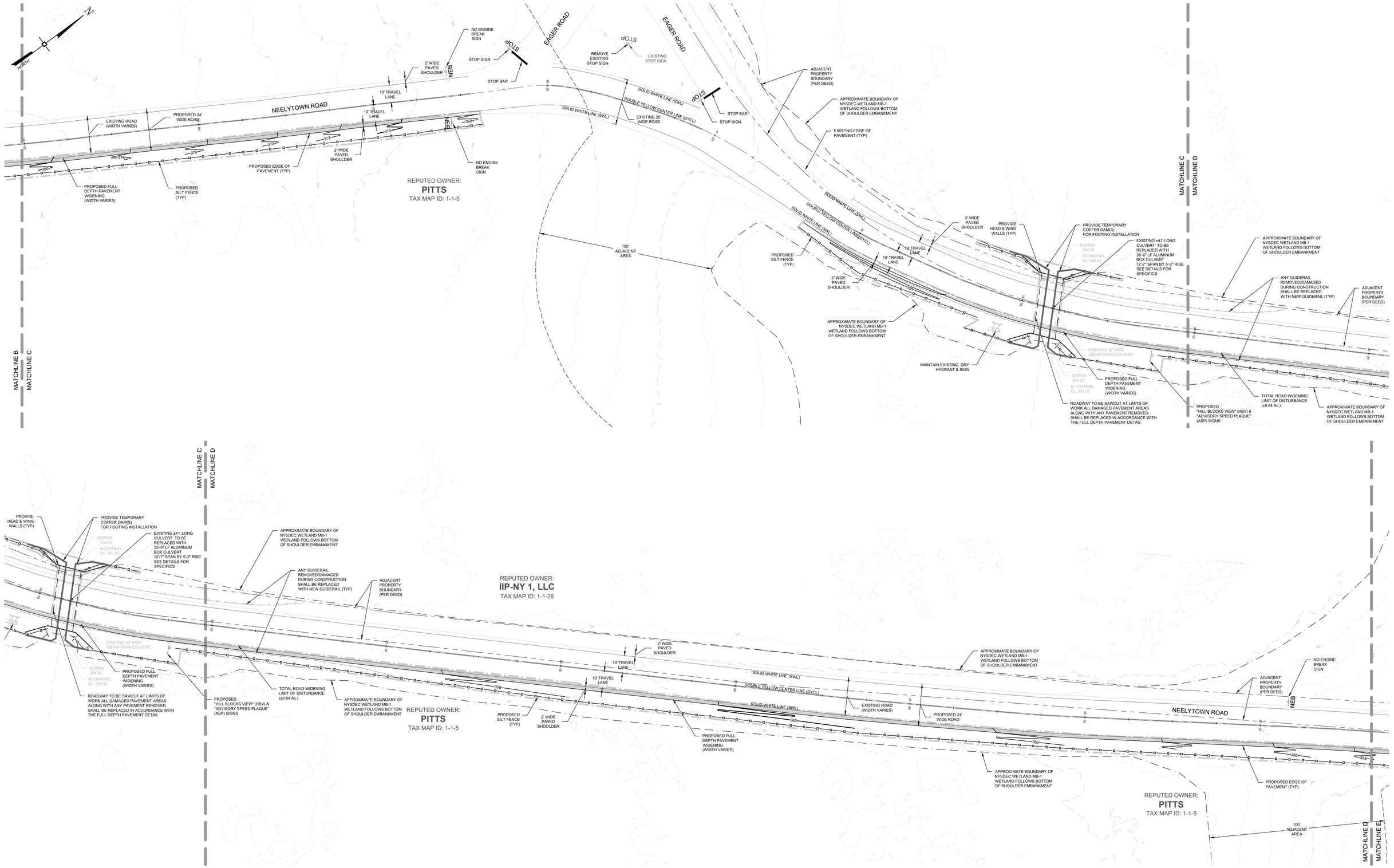
NEELYTOWN ROAD IMPROVEMENTS

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ORANGE COUNTY, NEW YORK

JOB #: 1284.02	DRAWN BY: JS		
DATE: 01/23/19	SCALE: 1" = 20'	C-401	
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6		

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Date Printed: Aug 13, 2021, 11:21am



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☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	25	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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NEW YORK LICENSE # 080023

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1 inch = 20 ft.

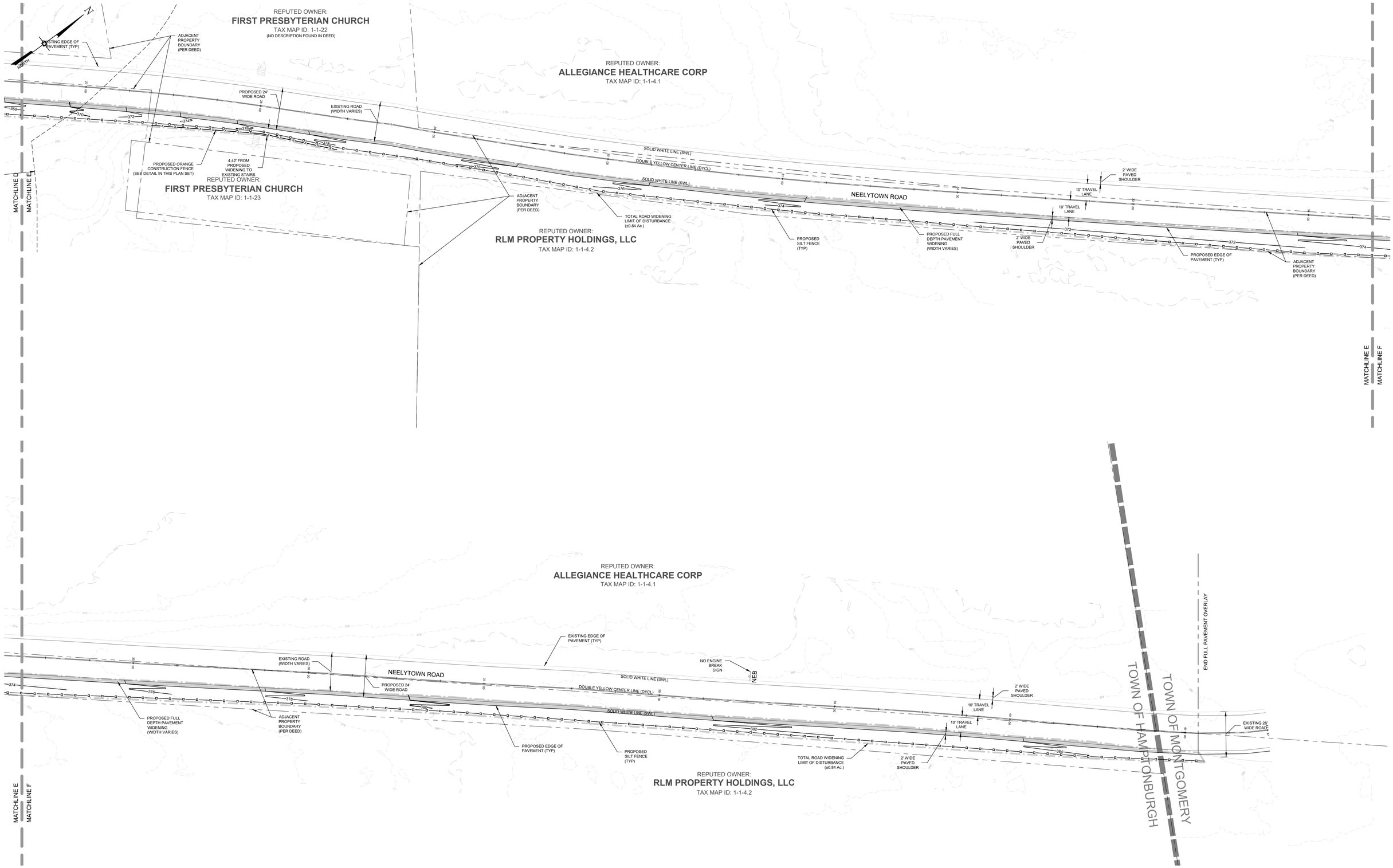
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NEELYTOWN ROAD IMPROVEMENTS

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1284.02	DRAWN BY: JS	
DATE: 01/23/19	SCALE: 1" = 20'	C-402
REVISION: 12 - 08/16/2021	TAX LOT: 1-1-6	

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NEELYTOWN ROAD IMPROVEMENT NOTES

1. THE APPLICANT SHALL BE RESPONSIBLE FOR THE FOLLOWING IMPROVEMENTS WITHIN OR ALONG THE NEELYTOWN ROAD RIGHT-OF WAY WHICH SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY OF THE FIRST BUILDING CONSTRUCTED.

- THE DESIGN, PERMITTING, AND INSTALLATION OF THE REPLACEMENT OF THE CULVERT WITHIN THE NEELYTOWN R.O.W. JUST NORTH OF EAGER ROAD.
- THE APPLICANT SHALL BE RESPONSIBLE FOR THE NECESSARY EXPANSION OF NEELYTOWN ROAD TO ENSURE THAT THERE WILL BE A MINIMUM OF 24 FEET OF PAVEMENT WIDTH FROM THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY BOUNDARY TO THE PROJECT ENTRANCE. (SEE FULL DEPTH PAVEMENT DETAIL ON SHEET C-305).
- THE CULVERT SHALL BE REPLACED AND ANY REQUIRED PAVEMENT WIDENING SHALL BE COMPLETED PRIOR TO THE PAVEMENT OVERLAY DISCUSSED ABOVE.
- THE APPLICANT SHALL INSTALL A PETROMAT PAVING FABRIC AND A 2" ASPHALT TOP COURSE OVERLAY TO PROVIDE ADDITIONAL STRUCTURAL SUPPORT THE EXISTING ROADWAY TO MAINTAIN THE ROAD'S INTEGRITY. THE PAVING FABRIC AND ASPHALT OVERLAY OF NEELYTOWN ROAD FROM THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY MUNICIPAL BOUNDARY TO THE PROJECT ENTRANCE. (SEE PAVEMENT OVERLAY DETAIL ON SHEET C-305).
- PRIOR TO INSTALLATION OF THE PETROMAT AND ASPHALT OVERLAY, A SITE VISIT WITH THE DESIGN ENGINEER, TOWN ENGINEER, AND TOWN OF HAMPTONBURGH HIGHWAY SUPERINTENDENT SHALL OCCUR TO WALK THE WESTERN EDGE OF NEELYTOWN ROAD TO DETERMINE ANY AREAS OF BROKEN PAVEMENT EDGES, POTHOLES, ETC. THAT WILL BE REQUIRED TO BE SAWCUT AND REMOVED.
- THE APPLICANT SHALL INSTALL ADDITIONAL 30MPH SIGNS (SIGNS MUST COMPLY WITH ALL NYSDOT SPECIFICATIONS) ON NEELYTOWN ROAD IN BOTH DIRECTIONS IMMEDIATELY SOUTH OF INTERSECTION OF EAGER ROAD.
- THE APPLICANT SHALL INSTALL A "HILL BLOCKS VIEW" SIGN (MUTCD #W7-6) (SIGN MUST COMPLY WITH ALL NYSDOT SPECIFICATIONS) FACING THE NORTHBOUND TRAFFIC ON NEELYTOWN ROAD SOUTH OF THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY BOUNDARY.
- THE APPLICANT SHALL PROVIDE STRIPING OF NEELYTOWN ROAD FROM THE TOWN OF HAMPTONBURGH / TOWN OF MONTGOMERY BOUNDARY TO THE PROJECT ENTRANCE CONSISTING OF A DOUBLE YELLOW CENTERLINE AND WHITE LINES DEFINING THE EDGE OF TRAVEL LANES (FOG LINES) TO ESTABLISH 10' WIDE TRAVEL LANES IN BOTH DIRECTIONS. ALL STRIPING MUST COMPLY WITH ALL NYSDOT SPECIFICATIONS

No.	DATE	DESCRIPTION
1	08/21/19	REVISED PER ENGINEER COMMENTS
2	12/18/19	REVISED PER ENGINEER COMMENTS
3	01/22/20	REVISED PER ENGINEER COMMENTS
4	02/19/20	REVISED PER ENGINEER COMMENTS
5	05/05/20	PARTIAL SET FOR FIRE CODE OFFICIAL REVIEW
6	05/19/20	REVISED PER ENGINEER COMMENTS
7	09/14/20	REVISED PER NOISE CONSULTANT COMMENTS
8	11/18/20	REVISED PER PUBLIC HEARING COMMENTS
9	12/23/20	REVISED PER ENGINEER COMMENTS
10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS

DRAWING STATUS — ISSUE DATE: 08/16/2021

THIS SHEET IS PART OF THE PLAN SET ISSUED FOR — SHEET NUMBER

☐ CONCEPT APPROVAL	N/A	OF	N/A
☑ PLANNING BOARD APPROVAL	26	OF	27
☐ OCDOH REALTY SUBDIVISION APPROVAL	N/A	OF	N/A
☐ OCDOH WATERMAIN EXTENSION APPROVAL	N/A	OF	N/A
☐ NYSDEC APPROVAL	N/A	OF	N/A
☐ NYSDOT APPROVAL	N/A	OF	N/A
☐ OTHER	N/A	OF	N/A
☐ FOR BID	N/A	OF	N/A
☐ FOR CONSTRUCTION	N/A	OF	N/A

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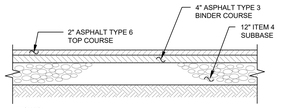
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NEELYTOWN ROAD IMPROVEMENTS

RDM WAREHOUSES
230 NEELYTOWN ROAD
TOWN OF HAMPTONBURGH
ORANGE COUNTY, NEW YORK

JOB #: 1284.02	DRAWN BY: JS	C-403
DATE: 01/23/19	SCALE: 1" = 20'	
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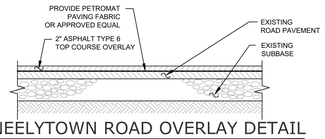
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NOTES:
1. TO BE UTILIZED FOR ALL NEW PAVEMENT AREAS (EXCEPT OVERLAY).
2. ALL SUBGRADE AND SUBBASE SHALL BE PROOF ROLLED WITH ENGINEER PRESENT PRIOR TO SUBSEQUENT LIFTS.
3. ALL PAVEMENT THICKNESS AREA AFTER COMPACTION.
4. ALL ASPHALT SHALL BE COMPACTED TO 95% OF MAX DENSITY.

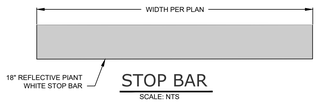
FULL DEPTH PAVEMENT SECTION

SCALE: NTS



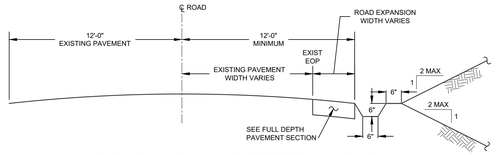
NEELYTOWN ROAD OVERLAY DETAIL

SCALE: NTS



STOP BAR

SCALE: NTS



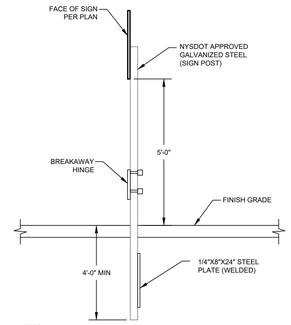
ROAD WIDENING CROSS-SECTION

SCALE: N.T.S.

SIGN	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
STOP	STOP	R1-1	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND
NEB	NO ENGINE BREAK		18" x 24"	GR MTD	WHITE BACKGROUND BLACK LETTERING
HBV	HILL BLOCKS VIEW	W7-6	30" x 30"	GR MTD	YELLOW BACKGROUND BLACK LETTERING
ASP	20 MPH	W13-1P	18" x 18"	GR MTD	YELLOW BACKGROUND BLACK LETTERING
30MPH	SPEED LIMIT 30	R2-1	24" x 30"	GR MTD	WHITE BACKGROUND BLACK LETTERING

SIGN SCHEDULE

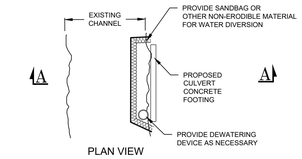
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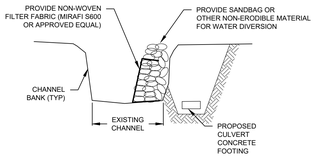
NOTES:
1. ALL ASSEMBLY HARDWARE TO BE CAST ALUMINUM WITH ALUMINUM BOLTS.
2. ALL SIGNS SHALL CONFORM TO ALL NYSDOT AND MUTCD REQUIREMENTS.

SIGN POST

SCALE: NTS



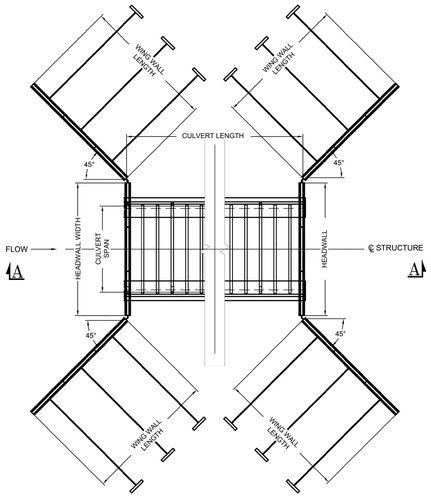
PLAN VIEW

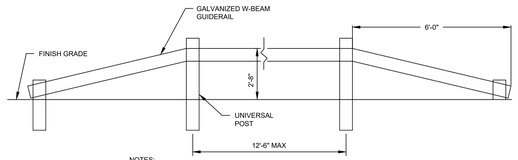


SECTION A-A

TEMPORARY COFFER DAM

SCALE: NTS

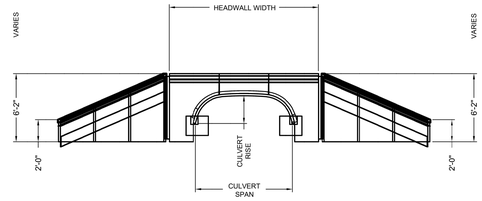




NOTES:
1. GUIDERAIL MUST CONFORM WITH NYSDOT W-BEAM GUIDERAIL. REFER TO NYSDOT STANDARD SHEETS 606-07.
2. THE RAIL COLOR SHALL MATCH EXISTING GUIDERAIL ALONG NEELYTOWN ROAD IN THE AREAS OF THE CULVERT REPLACEMENT.

W-BEAM GUIDE RAIL DETAIL

SCALE: NTS

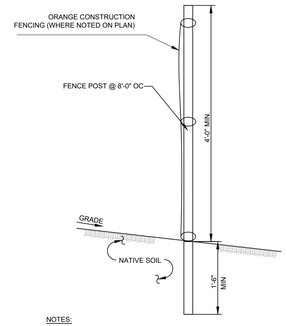


SECTION A-A

ALUMINUM BOX CULVERT SCHEDULE

LOCATION	CULVERT SPAN	CULVERT RISE	CULVERT LENGTH	HEADWALL WIDTH	HEADWALL LENGTH	CONTECH STRUCTURE #
NEELYTOWN ROAD	12'-7"	5'-2"	35'-0"	16'-6"	13'-6"	18

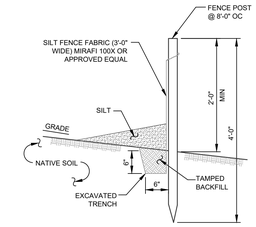
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Call811
before you dig



NOTES:
1. ORANGE CONSTRUCTION FENCE LOCATIONS SHALL BE STAKED BY A SURVEYOR AND INSTALLATION SHALL BE CONFIRMED BY THE ENGINEER PRIOR TO ANY LAND DISTURBANCE WITHIN 125 FEET OF AN EXISTING WETLAND AND IN AREAS WHERE TREES AND STONE WALLS ARE TO BE PRESERVED.
2. ALL ORANGE CONSTRUCTION FENCING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO PROTECT SENSITIVE AREAS.
3. THE ORANGE CONSTRUCTION FENCING WILL BE REMOVED UPON FINAL STABILIZATION OF ALL AREAS WITHIN 125 FEET OF FENCING.

ORANGE CONSTRUCTION FENCE

SCALE: N.T.S.

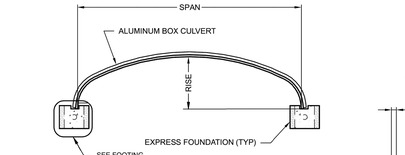


NOTES:
1. SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.
2. SILT SHALL BE REMOVED WHEN HEIGHT OF SILT EXCEEDS 1/2 OF THE EXPOSED SILT FENCE HEIGHT.

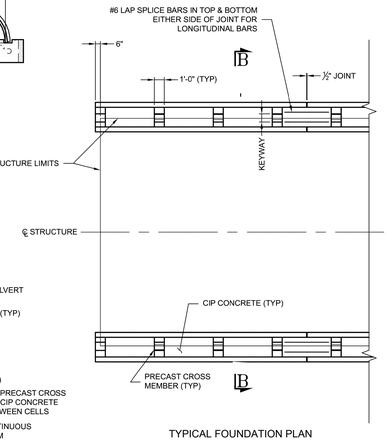
SILT FENCE

SCALE: 3/4"=1'-0"

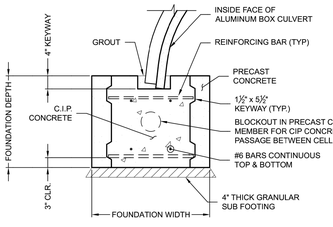
No.	DATE	DESCRIPTION
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10	03/09/21	ADDED NEELYTOWN ROAD IMPROVEMENTS SHEET
11	07/16/21	REVISED PER ENGINEER COMMENTS
12	08/16/21	REVISED PER ENGINEER COMMENTS



SECTION B-B

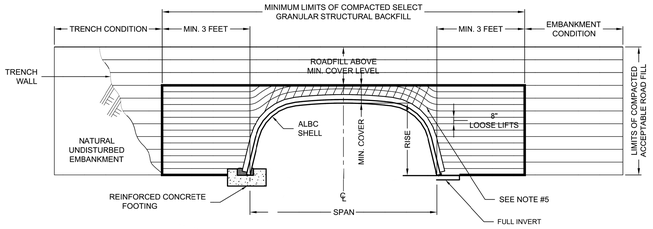


TYPICAL FOUNDATION PLAN



FOOTING DETAIL

NOTES:
1. WHENEVER POSSIBLE, WORK SHOULD BE SCHEDULED FOR LOW FLOW SEASONS. NORMAL FLOW SHOULD BE DIVERTED AWAY FROM THE WORK AREA BY MEANS OF A COFFERDAM AND DEWATERING AS NECESSARY.
2. ANY IN-CHANNEL EXCAVATIONS SHALL BE AVOIDED TO THE GREATEST EXTENT PRACTICAL BUT IF NECESSARY, IT SHALL BE DONE FROM THE TOP OF BANKS WITH NO MACHINERY PERMITTED WITHIN THE WATER CHANNEL AT ANY TIME.
3. ALL EXCAVATED MATERIALS MUST BE IMMEDIATELY REMOVED TO A DISPOSAL SITE HAVING AN APPROVED EROSION AND SEDIMENT POLLUTION CONTROL PLAN.
4. ALL WORK WITHIN DISTURBED AREAS SHOULD BE COMPLETED AND STABILIZED BEFORE FLOW IS REDIRECTED INTO IT. SUITABLE PROTECTION SHOULD BE PROVIDED FOR THE STREAM CHANNEL FROM ANY DISTURBED AREAS THAT HAVE NOT YET ACHIEVED STABILIZATION.
5. CONTRACTOR SHALL ENSURE ANY AND ALL OTHER EROSION/SEDIMENT CONTROL MEASURES APPLICABLE TO THIS AREA AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS IN THIS SET AND/OR AS DESCRIBED BY THE ENGINEER ONSITE DURING CONSTRUCTION ARE INSTALLED PRIOR TO ANY DISTURBANCE.



SECTION

SELECT GRANULAR STRUCTURAL BACKFILL LIMITS.

INITIAL LIFTS OVER THE CROWN OF STRUCTURE AS INDICATED BY SHADED AREA TO BE COMPACTED TO REQUIRED DENSITY WITH HAND OPERATED EQUIPMENT OR WITH LIGHTWEIGHT(D-4 OR LIGHTER) EQUIPMENT.

NOTES:
1. ALL SELECT GRANULAR BACKFILL TO BE PLACED IN A BALANCED FASHION IN THIN LIFTS (8" LOOSE THICKNESS) AND COMPACTED TO 90 PERCENT DENSITY PER AASHTO T-180.
2. COMPLETE AND REGULAR MONITORING OF THE ALUMINUM BOX CULVERT SHAPE IS NECESSARY DURING ALL BACKFILLING OF THE STRUCTURE.
3. PREVENT DISTORTION OF SHAPE AS NECESSARY BY VARYING COMPACTION METHODS AND EQUIPMENT.
4. TRENCH WIDTH OTHER THAN 3 FEET SHALL BE BY DIRECTION OF THE ENGINEER OF RECORD.
5. SWITCH TO PLACING SELECT GRANULAR BACKFILL NEAR IN RADIAL LIFTS THE MIDDLE OF THE HAUNCH CURVE.

ADDITIONAL SELECT GRANULAR STRUCTURAL BACKFILL NOTES:

SATISFACTORY BACKFILL MATERIAL, PROPER PLACEMENT, AND COMPACTION ARE KEY FACTORS IN OBTAINING MAXIMUM STRENGTH AND STABILITY.

THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND FOREIGN MATERIAL THAT COULD CAUSE HARD SPOTS OR DECOMPOSE TO CREATE VOIDS. BACKFILL MATERIAL SHOULD BE WELL GRADED GRANULAR MATERIAL THAT MEETS THE REQUIREMENTS OF AASHTO M-145 FOR SOIL CLASSIFICATIONS A-1, A-2-4, A-2-5, OR A-3 MODIFIED.

SEE THE STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION TABLE ON THIS SHEET. BACKFILL MUST BE PLACED SYMMETRICALLY ON EACH SIDE OF THE STRUCTURE IN 8" LOOSE LIFTS. EACH LIFT IS TO BE COMPACTED TO A MINIMUM OF 90% DENSITY PER AASHTO T-180.

A HIGH PERCENTAGE OF SILT OR FINE SAND IN THE NATIVE SOILS SUGGESTS THE NEED FOR A WELL GRADED GRANULAR BACKFILL MATERIAL TO PREVENT SOIL MIGRATION. IF THE PROPOSED BACKFILL IS NOT A WELL-GRADED MATERIAL, A NON-WOVEN GEOTEXTILE FILTER FABRIC SHALL BE PLACED BETWEEN THE SELECT BACKFILL AND THE IN SITU MATERIAL.

DURING BACKFILL, ONLY LIGHTWEIGHT TRACKED VEHICLES (D-4 OR LIGHTER) SHOULD BE NEAR THE STRUCTURE AS FILL PROGRESSES ABOVE THE CROWN AND TO THE FINISHED GRADE. THE ENGINEER AND CONTRACTOR ARE CAUTIONED THAT THE MINIMUM COVER MAY NEED TO BE INCREASED TO HANDLE TEMPORARY CONSTRUCTION VEHICLE LOADS (HEAVIER THAN D-4).

STRUCTURAL PLATE BACKFILL GROUP CLASSIFICATION, REFERENCE AASHTO M-145					
GROUP CLASSIFICATION	A-1-a	A-1-b	A-2-4	A-2-5	A-3
Sieve Analysis Percent Passing					
No. 10 (2.000 mm)	50 max.	----	----	----	----
No. 40 (0.425 mm)	30 max.	50 max.	----	----	51 max.*
No. 200 (0.075 mm)	15 max.	25 max.	35 max.	35 max.	10 max.
Atterberg Limits for Fraction Passing No. 40 (0.425 mm)					
Liquid Limits	----	----	40 max.	41 min.	----
Plasticity Index	6 max.	6 max.	10 max.	10 max.	Non Plastic
Usual Materials	Stone Fragment, Gravel and Sand		Silty or Clayey Gravel and Sand		Coarse Sand

*Modified from M-145.

Fine beach sands, windblown sands, stream deposited sands, etc., exhibiting fine, rounded particles and typically Classified by AASHTO M-145 as A-3 materials should not be used.

Reference the most current version of ASTM D2487, Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System), for comparable soil groups.

NOTES:
1. CULVERTS TO BE CONTECH ALUMINUM BOX CULVERT STRUCTURE AS SPECIFIED ABOVE OR APPROVED EQUAL.
2. ALL CULVERTS TO BE CAPABLE OF CARRYING H-25 LOADING.
3. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR EACH OF THE CULVERT INCLUDING ALL FOOTING DETAILS PRIOR TO CONSTRUCTION FOR ENGINEERS REVIEW.
4. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR EACH HEADWALLS PRIOR TO CONSTRUCTION FOR ENGINEERS REVIEW.
5. HEADWALLS SHALL BE INSTALLED AS PER MANUFACTURERS RECOMMENDATION.
6. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED SHOP DRAWINGS / DEISGN DRAWINGS FOR ALL FOOTINGS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS FOR THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

ALUMINUM BOX CULVERT(S)

SCALE: NTS

1.0 STANDARDS AND DEFINITIONS

1.1 STANDARDS - All standards refer to the current ASTM/AASHTO edition unless otherwise noted.

1.1.1 ASTM B-864 "Standard Specification for Corrugated Aluminum Box Culverts" (AASHTO Designation M-219).

1.1.2 AASHTO Standard Specification for Highway Bridges - Section 12 Division I - Design, AASHTO LRFD Bridge Design Specifications Section 12.

1.1.3 AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction, AASHTO LRFD Bridge Construction Specifications - Section 26. ASTM B788, Standard Practice for Installing Corrugated Aluminum Structural Plate Pipe.

1.2 DEFINITIONS

1.2.1 Owner - In these specifications the word "Owner" shall mean .

1.2.2 Engineer - In these specifications the word "Engineer" shall mean the Engineer of Record or Owner's designated engineering representative.

1.2.3 Manufacturer - In these specifications the word "Manufacturer" shall mean CONTECH ENGINEERED SOLUTIONS 800-338-1122 .

1.2.4 Contractor - In these specifications the word "Contractor" shall mean the firm or corporation undertaking the execution of any installation work under the terms of these specifications.

1.2.5 Approved - In these specifications the word "approved" shall refer to the approval of the Engineer or his designated representative.

1.2.6 As Directed - In these specifications the words "as directed" shall refer to the directions to the Contractor from the Owner or his designated representative.

2.0 GENERAL CONDITIONS

2.1 Any installation guidance provided herein shall be endorsed by the engineer; discrepancies herein are governed by the Engineer's plans and specifications.

2.2 The Contractor shall furnish all labor, material and equipment and perform all work and services except those set out and furnished by the Owner, necessary to complete in a satisfactory manner the site preparation, excavation, filling, compaction, grading as shown on the plans and as described therein. This work shall consist of all mobilization clearing and grading, grubbing, stripping, removal of existing material unless otherwise stated, preparation of the land to be filled, filling of the land, spreading and compaction of the fill, and all subsidiary work necessary to complete the grading of the cut and fill areas to conform with the lines, grades, slopes, and specifications. This work is to be accomplished under the observation of the Owner or his designated representative.

2.3 Prior to bidding the work, the Contractor shall examine, investigate and inspect the construction site as to the nature and location of the work, and the general and local conditions at the construction site, including without limitation, the character of surface or subsurface conditions and obstacles to be encountered on and around the construction site and shall make such additional investigation as he may deem necessary for the planning and proper execution of the work.

If conditions other than those indicated are discovered by the Contractor, the Owner shall be notified immediately. The material which the Contractor believes to be a changed condition shall not be disturbed so that the owner can investigate the condition.

2.4 The construction shall be performed under the direction of the Engineer.

2.5 All aspects of the structure design and site layout including foundations, backfill, end treatments and necessary scour consideration shall be performed by the Engineer.

3.0 ASSEMBLY AND INSTALLATION

3.1 Bolts and nuts shall conform to the requirements of ASTM A-307 and/or ASTM A-449. The box culvert shall be assembled in accordance with the plate layout drawings provided by the manufacturer and per the manufacturer's recommendations.

Bolts shall be tightened using an applied torque of between 100 and 150 ft.-lbs.

3.2 The box culvert shall be installed in accordance with the plans and specifications, the manufacturer's recommendations, and AASHTO Standard Specification for Highway Bridges - Section 26 Division II - Construction/AASHTO LRFD Bridge Construction Specifications - Section 26.

3.3 Trench excavation shall be made in embankment material that is structurally adequate. The trench width shall be shown on the plans. Poor quality in situ embankment material must be removed and replaced with suitable backfill as directed by the Engineer.

3.4 Aluminum Box Culvert designs require a minimum allowable soil-bearing pressure of 4,000 psf. Lower bearing capacities may be accommodated with a site specific design for an aluminum foundation or a concrete footing.

If the engineer determines the natural foundation is inadequate to support the structure's backfill, the poor material shall be excavated, removed and replaced to a suitable depth with competent material. The specific depth of excavation required may be reduced by utilizing a geosynthetic reinforced foundation as designed by a qualified geotechnical engineer. For additional information contact your local Contech representative.

3.5 When a metal foundation is used, the soil bedding requires a minimum of 6 inches of loose granular material with a maximum particle size of one half the corrugation depth. The proper width of the bedding material required shall conform to the project plans and specifications.

Bedding preparation is critical to both structure performance and service life. The bedding should be constructed to uniform line and grade to avoid distortions that may create undesirable stresses in the structure and/or rapid deterioration of the roadway. The bed should be free of rock formations, protruding stones, frozen lumps, roots, and other foreign matter that may cause unequal settlement.

3.6 The structure shall be assembled in accordance with the Manufacturer's instructions. All plates shall be unloaded and handled with reasonable care. Plates shall not be rolled or dragged over gravel rock and shall be prevented from striking rock or other hard objects during placement in trench or on bedding.

When installed on a full invert or on flexible footing pads, assembly of the invert or footing pads shall start at the downstream end. Circumferential seam laps shall shingle over the top of the downstream plates as assembly progresses upstream. Whether the box culvert is installed on a concrete footing, full metal invert, or flexible footing pad, assembly of the structure shall shall start at the upstream end. Downstream rings of plates shall be assembled outside of the upstream rings (Circumferential seams are shingled downstream when viewed from the inside of the shell).

3.7 The structure shall be backfilled using clean well graded granular material that meets the requirements for soil classifications A-1, A-2-4, A-2-5, or A-3 modified per AASHTO M-145. See the structural plate backfill group classification table on this sheet.

Backfill must be placed symmetrically on each side of the structure in 8 inch loose lifts. Each lift shall be compacted to a minimum of 90 percent density per AASHTO T-180.

3.8 Standard highway loads that meet the permissible design load limits for an Aluminum Box Culvert are not allowed on the structure until it is backfilled completely and pavement is in place.

The addition of temporary soil for heavy construction loads is not feasible or possible for Aluminum Box Culverts. By design, these structures are limited in the range of permissible fill heights and live loads.

Heavy construction loads that exceed that of the particular highway live load design limits are not allowed on Aluminum Box Culverts without approval from the Engineer.

3.9 If an aluminum headwall and/or wingwall system is specified, the select granular structural backfill limits shall extend past the deadman anchor system. Contact the Engineer if stiff material or rock is encountered where the wingwalls and deadmen are to be installed.

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DATE: 01/23/19	SCALE: AS NOTED	
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