

LOCATION MAP

PARKING REQUIREMENTS

TOTAL SPACES REQUIRED:	4.2 SPACES PER 1,000 SF NET FLOOR AREA
NET FLOOR AREA:	66,405 SF / 1,000 SF + 4.2 SPACES = 275 SPACES
INDOOR:	66,405 SF / 1,000 SF + 4.2 SPACES = 275 SPACES
OUTDOOR (NURSERY):	15,167 SF / 1,000 SF + 4.2 SPACES = 63 SPACES
TOTAL SPACES:	338 SPACES
TOTAL SPACES PROVIDED:	343 SPACES

BULK REQUIREMENTS

TOWN OF WALKKILL - ZONING DISTRICT TOWN CENTER (TC)
SHOPPING CENTERS - S249-26.1 C (12)

MINIMUM BUILDING REQUIREMENTS	REQUIRED	PROPOSED
LOT AREA	60,000 SF	±321,135 SF
LOT WIDTH	200 FEET	±748.0 FEET
LOT DEPTH	200 FEET	±545.9 FEET
FRONT YARD	50 FEET	±51.25 FEET
REAR YARD	50 FEET	±69.25 FEET
SIDE YARD (ONE/BOTH)	50/100 FEET	±188.2 FEET ¹
FRONT YARD PARKING SETBACK	10 FEET	0.0 FEET ²
MAXIMUM ALLOWABLE IMPERVIOUS COVERAGE	75 %	±78.8% ³
MAXIMUM BUILDING HEIGHT	60 FEET	±60 FEET

¹ LOT CONTAINS MULTIPLE ROAD FRONTAGES & ONLY ONE SIDE YARD EXISTS
² PARKING IS PROPOSED WITHIN THE RIGHT-OF-WAY AND OCCUPANCY EASEMENT AREA AND TOWN OF WALKKILL REQUIRES PARKING SETBACK OF 10' FROM FRONT YARD.
³ A VARIANCE WAS GRANTED ON JULY 13, 2020
⁴ A VARIANCE WAS GRANTED ON JULY 13, 2020

GENERAL NOTES

- TAX MAP IDENTIFICATION NUMBER: SECTION 41 BLOCK 1 LOT 61-22
- TOTAL AREA OF SUBJECT PARCEL: 7.3722 ACRES.
- BOUNDARY AND PLANIMETRIC INFORMATION BASED UPON FIELD SURVEY AS PERFORMED BY ENGINEERING & SURVEYING PROPERTIES, PC ON DECEMBER 10, 2017.
- THE TOPOGRAPHY SHOWN HEREON WAS COMPILED BY ENGINEERING & SURVEYING PROPERTIES, PC. FROM USGS 1M HYDRO-FLATTENED DIGITAL ELEVATION MODELS (DEM) AS DERIVED FROM 2012 SOURCE DATA. THE DEMS WERE PROVIDED BY NYS GIS.GOV AND VERIFIED WITH ACTUAL SURVEY OBSERVATIONS TAKEN IN THE FIELD. CONTOURS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988.
- OWNER/APPLICANT: ADAMS WALKKILL LLC, 765 DUTCHESS TURNPIKE, POUGHKEEPSIE, NY 12603
- PROPOSED USE: SHOPPING CENTER
- THE FOLLOWING VARIANCES WERE GRANTED BY THE TOWN OF WALKKILL ZONING BOARD OF APPEALS ON JULY 13, 2020: S249-26.1 E. IMPERVIOUS COVERAGE. MAXIMUM ALLOWED: 70% PROPOSED: 78.8% S249-12 D (7) PARKING IN FRONT YARD. MINIMUM PARKING SETBACK: 10 FEET PROPOSED PARKING SETBACK: 0 FEET S249-100 D (1) (a) PERIMETER LANDSCAPE BUFFER ABUTTING A PUBLIC R.O.W. MINIMUM BUFFER REQUIRED: 10 FEET PROPOSED BUFFER: 0 FEET S249-100 D (2) (b) PLANTED MEDIAN REQUIREMENT MORE THAN 4 ASILES PROPOSED: EVERY OTHER ALBLE PROPOSED MEDIAN ASILES: NONE
- SEE PLANS BY MASER CONSULTING FOR ALL IMPROVEMENTS WITHIN NYS DOT R.O.W. (NYS ROUTE 211 & EBERT RD). A NYS DOT HIGHWAY WORK PERMIT IS REQUIRED PRIOR TO ANY WORK WITHIN THE NYS DOT R.O.W.
- NO WORK WITHIN WES WARREN DRIVE SHALL BE STARTED UNTIL A PRE-CONSTRUCTION MEETING IS HELD WITH THE TOWN OF WALKKILL, HIGHWAY DEPARTMENT AND THE TOWN ENGINEER AND ANY NECESSARY TOWN OF WALKKILL HIGHWAY WORK PERMITS ARE ISSUED.
- AS THE LOCATION ALL EXISTING UTILITIES SERVICES (WATER & SEWER) FOR THE EXISTING ON-SITE USES ARE UNKNOWN, THE CONTRACTOR SHALL LOCATE THESE SERVICES DURING SITE DEMOLITION AND CUT AND CAP EACH SERVICE AT THEIR RESPECTIVE MARK. THE TOWN OF WALKKILL WATER AND SEWER DEPARTMENT SHALL BE NOTIFIED PRIOR TO THIS WORK BEING PERFORMED.
- ANY SNOW THAT IS STOCKPILED WITHIN ALL ACCESS DRIVES, PARKING AREAS AS WELL AS LOADING AREAS SHALL BE REMOVED WITHIN 24 HOURS UPON THE END OF THE SNOW FALL EVENT.
- THERE SHALL BE NO OUTSIDE STORAGE OF MATERIALS OTHER THAN THE AREAS AS INDICATED ON THE PLANS AND IN THE SEASONAL TRAILERS.
- ORANGE COUNTY DEPARTMENT OF HEALTH PLAN APPROVAL IS LIMITED TO 5 YEARS. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE ORANGE COUNTY DEPARTMENT OF HEALTH BASED UPON DEVELOPMENT FACTS AND ANY NEW REGULATIONS, OR GUIDANCE, IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
- DIG SAFELY NEW YORK MUST BE CONTACTED PRIOR TO ANY EXCAVATION OR DEMOLITION (DIAL 811 OR WWW.DIGSAFE.NY.GOV).
- THIS PROJECT HAS INDICATED THE INTENTION TO PROVIDE ADEQUATE FIRE FLOW BY THE PROPOSED INSTALLATION OF SPRINKLER SYSTEMS MEETING NFPA REQUIREMENTS, AND IS THEREFORE, CONSIDERED EXEMPT FROM THE NEEDED FIRE FLOW GUIDELINES OF THE INSURANCE SERVICES OFFICE (ISO). THE PROPOSED SPRINKLER SYSTEM DESIGN HAS NOT BEEN EVALUATED BY THE ORANGE COUNTY DEPT. OF HEALTH FOR COMPLIANCE WITH NFPA REQUIREMENTS.
- THE DUMPSTERS AND TRASH COMPACTORS ARE LOCATED AT THE REAR OF THE BUILDING AND ARE SHELDED FROM THE GENERAL PUBLIC VIEW BY THE BUILDING AND PROPOSED PERIMETER LANDSCAPING AND THEREFORE AN ENCLOSURE IS NOT SHOWN NOR REQUIRED AT THIS TIME, HOWEVER, THE APPLICANT AGREES TO INSTALL AN ENCLOSURE AT A FUTURE DATE SHOULD IT BE DETERMINED NECESSARY BY THE BUILDING DEPARTMENT OR PLANNING BOARD.
- THE APPLICATION FOR ANY BACKFLOW PREVENTION DEVICES, IF REQUIRED, SHALL BE PROVIDED UNDER A SEPARATE APPLICATION TO THE ORANGE COUNTY DEPT. OF HEALTH.
- THE OWNER OF THE PROPERTY LOCATED AT 636 NYS ROUTE 211 EAST (SECTION 41 BLOCK 1 LOT 61-22) SHALL MAINTAIN ALL DRAINAGE STRUCTURES AND PIPES ACCEPTING DRAINAGE FROM THE NEW YORK STATE RIGHT-OF-WAY. THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYS DOT) SHALL ALSO MAINTAIN THE RIGHT TO ACCESS THIS PROPERTY FOR THE PURPOSE OF MAINTENANCE OF THESE PIPES AND STRUCTURES. IN THE EVENT THAT PROPER MAINTENANCE IS NOT COMPLETED BY THE OWNER, TO ENSURE PROPER DRAINAGE FLOW FROM THE NYS DOT RIGHT-OF-WAY, ANY COST ASSOCIATED WITH RESTORATION OF PARKING AREAS, CURBING, LANDSCAPING OR ANY OTHER FEATURES ON THE 636 NYS ROUTE 211 EAST PROPERTY AS A RESULT OF NYS DOT MAINTENANCE OPERATIONS OF SAID PIPES OR STRUCTURES LOCATED WITHIN THE EASEMENT AREA WILL BE AT THE PROPERTY OWNER'S SOLE EXPENSE.

No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	03/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	03/23/21	REVISED FOR OGDH WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OGDH(3/22) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE PB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
10	07/14/21	REVISED EROSION CONTROL
11	09/01/21	FIELD CHANGE #2
12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO EBS

DRAWING STATUS	ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	01/18/2022
<input type="checkbox"/> CONCEPT APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/> PLANNING BOARD APPROVAL	1 OF 13
<input type="checkbox"/> OGDH REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/> OGDH WATERMAIN EXTENSION APPROVAL	1 OF 3
<input type="checkbox"/> NYSDEC APPROVAL	N/A OF N/A
<input type="checkbox"/> NYS DOT APPROVAL	N/A OF N/A
<input type="checkbox"/> OTHER	N/A OF N/A
<input type="checkbox"/> FOR BID	N/A OF N/A
<input type="checkbox"/> FOR CONSTRUCTION	N/A OF N/A

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J. Samuel

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

DRAWING #	TITLE	SHEET #
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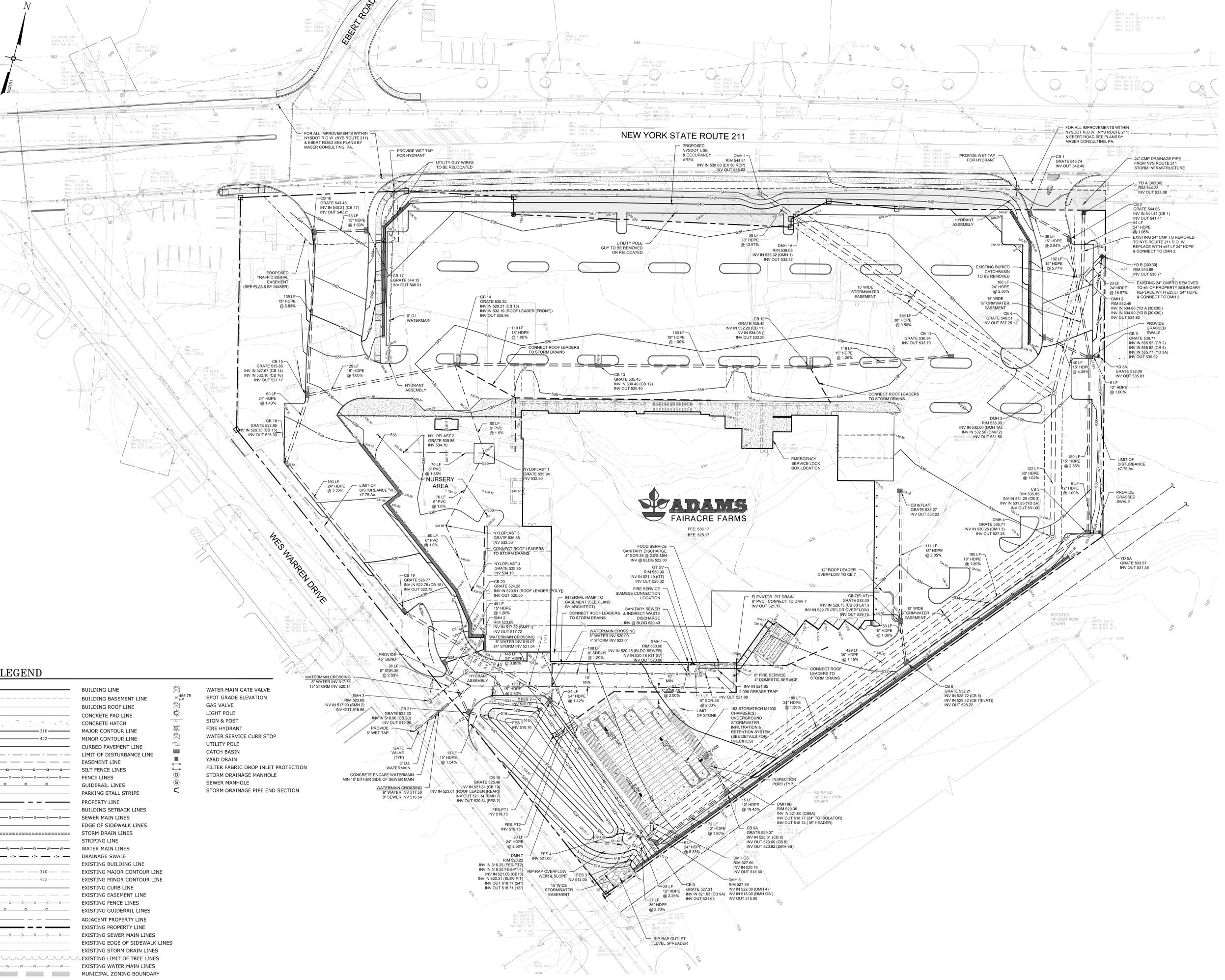
OVERALL PLAN

ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02 DRAWN BY: JS
DATE: 09/21/2020 SCALE: 1"=30'
REVISION: 14 - 01/18/2022 TAX LOT: 41-1-61-22

O-100

TOWN OF WALKKILL PB SHEET 1 OF 54



NEW YORK STATE ROUTE 211



No.	DATE	DESCRIPTION
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<input type="checkbox"/>	CONCEPT APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/>	PLANNING BOARD APPROVAL	4 OF 13
<input type="checkbox"/>	OGDON REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/>	OGDON WATERMAIN EXTENSION APPROVAL	2 OF 3
<input type="checkbox"/>	NYSDC APPROVAL	N/A OF N/A
<input type="checkbox"/>	NYSDOT APPROVAL	N/A OF N/A
<input type="checkbox"/>	OTHER	N/A OF N/A
<input type="checkbox"/>	FOR BID	N/A OF N/A
<input type="checkbox"/>	FOR CONSTRUCTION	N/A OF N/A

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



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GRADING & UTILITY PLAN

ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02
DATE: 09/21/2020
REVISION: 14 - 01/18/2022

DRAWN BY: JS
SCALE: 1"=30'
TAX LOT: 41-1-61-22

C-102

TOWN OF WALKILL PB SHEET 4 OF 54

LEGEND

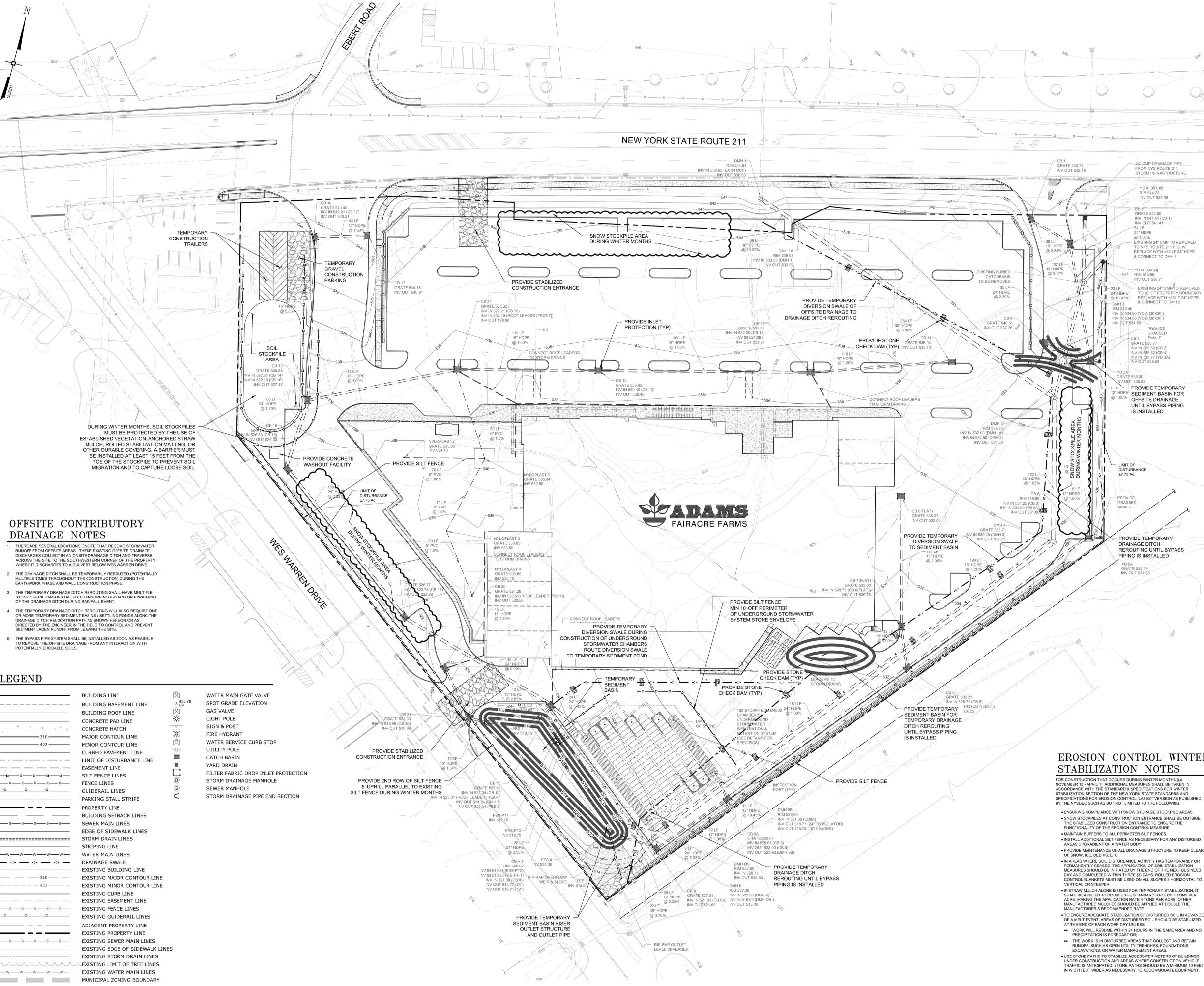
	BUILDING LINE		WATER MAIN GATE VALVE
	BUILDING BASEMENT LINE		SPOT GRADE ELEVATION
	BUILDING ROOF LINE		GAS VALVE
	CONCRETE PAD LINE		LIGHT POLE
	CONCRETE HATCH LINE		SIGN & POST
	MAJOR CONTOUR LINE		FIRE HYDRANT
	MINOR CONTOUR LINE		WATER SERVICE CURB STOP
	CURBED PAVEMENT LINE		UTILITY POLE
	LIMIT OF DISTURBANCE LINE		CATCH BASIN
	EASEMENT LINE		YARD DRAIN
	SILT FENCE LINES		FILTER FABRIC DROP INLET PROTECTION
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	EXISTING LIMIT OF TREE LINES		
	EXISTING WATER MAIN LINES		
	MUNICIPAL ZONING BOUNDARY		

11/16/2022 - Adams Fairacre Farms - Walkkill-024 Plan Set
Date Plotted: Jan 19, 2022, 3:09pm

EROSION AND SEDIMENT CONTROL NOTES

- SITE DISTURBANCE SHALL BE LIMITED TO THE MINIMUM NECESSARY GRADING AND VEGETATION REMOVAL REQUIRED FOR CONSTRUCTION.
- TEMPORARY EROSION CONTROL MEASURES, INCLUDING SILT FENCES AND/OR STRAW BALE BARRIERS, SEDIMENT BASIN, DIVERSION SWALE DRAINAGE STRUCTURES, AND RIP-RAP PROTECTION SHALL BE INSTALLED PRIOR TO GROUND DISTURBANCE FOR GRADING AND CONSTRUCTION.
- 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.
 - AN ADEQUATE SEEDING SHALL BE PREPARED BY SCARIFYING COMPACTED SOIL AND REMOVING SURFACE DEBRIS AND OBSTACLES.
 - LIME SHALL BE APPLIED SUFFICIENTLY TO ATTAIN A SOIL ACIDITY PH OF 6.0 TO 7.0.
 - FERTILIZER (5-10-10 MIXTURE OR EQUIVALENT) SHALL BE APPLIED PER SOIL TEST RESULTS OR AT A RATE OF 600 LBS. PER ACRE.
 - 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; 100 LBS. CERTIFIED "ARROSTOCK" WINTER RYE (CERIAL RYE) PER ACRE.
 - PERMANENT SEEDING SHALL BE APPLIED ON 4" MIN TOPSOIL AT THE FOLLOWING RATE:
 - 8 LBS. EMPIRE BIRDSFOOT TROFOLIUM OR COMMON WHITE CLOVER PER ACRE PLUS
 - 20 LBS. TALL FESCUE PER ACRE PLUS
 - 2 LBS. REDTOP OR 5 LBS. RYEGRASS (PERENNIAL) PER ACRE
- ALL SEEDING SHALL BE PERFORMED USING THE BROADCAST METHOD OR HYDROSEEDING, UNLESS OTHERWISE APPROVED.
- 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 SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
- ALL EROSION AND SEDIMENT 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.
- 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.
- ALL STORM INLETS TO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION.
- SYNTHETIC OR ORGANIC SOIL STABILIZERS MAY BE USED UNDER SUITABLE CONDITIONS AND IN SUFFICIENT QUANTITIES.
- MULCH NETTING SUCH AS PAPER, JUTE, EXCELSEOR, COTTON OR PLASTIC MAY BE USED. STAPLE IN PLACE OVER HAY OR STRAW MULCH. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
- STABILIZATION OF STEEP SLOPES SHALL BE ACHIEVED BY APPLYING LIME AND FERTILIZER AS SPECIFIED ABOVE AND SEEDING WITH THE FOLLOWING MIXTURE:

MATERIAL	Rate
PERENNIAL RYE GRASS	30
CROWN VETCH	12
SPREADING PEROXIDE	25
- OPTIMUM SEEDING PERIODS ARE 3:15-6:15 AND 8:15-10:15.
- ALL UPSTREAM SITE WORK AND STABILIZATION SHALL OCCUR BEFORE CONNECTING UNDERGROUND DETENTION/FILTRATION FACILITY TO PREVENT ANY ERODED SEDIMENTS FROM ENTERING UNDERGROUND FACILITY.
- IN ACCORDANCE WITH THE NYSDEC SPDES OF P-20-001, THERE SHALL BE NO MORE THAN 5 ACRES DISTURBED AT ANYONE TIME.



OFFSITE CONTRIBUTORY DRAINAGE NOTES

- THERE ARE SEVERAL LOCATIONS ONSITE THAT RECEIVE STORMWATER RUNOFF FROM OFFSITE AREAS. THESE EXISTING OFFSITE DRAINAGE DISCHARGES COLLECT IN AN ONSITE DRAINAGE DITCH AND TRAVERSE ACROSS THE SITE TO THE SOUTHWESTERN CORNER OF THE PROPERTY WHERE IT DISCHARGES TO A CULVERT BELOW WES WARREN DRIVE.
- THE DRAINAGE DITCH SHALL BE TEMPORARILY REROUTED (POTENTIALLY MULTIPLE TIMES THROUGHOUT THE CONSTRUCTION) DURING THE EARTHWORK PHASE AND WALL CONSTRUCTION PHASE.
- THE TEMPORARY DRAINAGE DITCH REROUTING SHALL HAVE MULTIPLE STONE CHECK DAMS INSTALLED TO ENSURE NO BREACH OR BYPASSING OF THE DRAINAGE DITCH DURING RAINFALL EVENT.
- THE TEMPORARY DRAINAGE DITCH REROUTING WILL ALSO REQUIRE ONE OR MORE TEMPORARY SEDIMENT BASINS / SETTLING PONDS ALONG THE DRAINAGE DITCH RELOCATION PATH AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER IN THE FIELD TO CONTROL AND PREVENT SEDIMENT LADEN RUNOFF FROM LEAVING THE SITE.
- THE BYPASS PIPE SYSTEM SHALL BE INSTALLED AS SOON AS FEASIBLE TO REMOVE THE OFFSITE DRAINAGE FROM ANY INTERACTION WITH POTENTIALLY ERODABLE SOILS.

LEGEND

	BUILDING LINE		WATER MAIN GATE VALVE
	BUILDING BASEMENT LINE		SPOT GRADE ELEVATION
	BUILDING ROOF LINE		GAS VALVE
	CONCRETE PAD LINE		LIGHT POLE
	CONCRETE HATCH		SIGN & POST
	MAJOR CONTOUR LINE		FIRE HYDRANT
	MINOR CONTOUR LINE		WATER SERVICE CURB STOP
	CURBED PAVEMENT LINE		UTILITY POLE
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<input type="checkbox"/>	OGDH WATERMAIN EXTENSION APPROVAL	N/A OF 3
<input type="checkbox"/>	NYSDEC APPROVAL	N/A OF N/A
<input type="checkbox"/>	NYSDOT APPROVAL	N/A OF N/A
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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080023

EROSION CONTROL WINTER STABILIZATION NOTES

- 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 STANDARD SPECIFICATIONS FOR EROSION CONTROL. LATEST VERSION IS PUBLISHED BY THE NYSDEC SUCH AS BUT NOT LIMITED TO THE FOLLOWING:
- ENSURE 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 UPGRADMENT 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.

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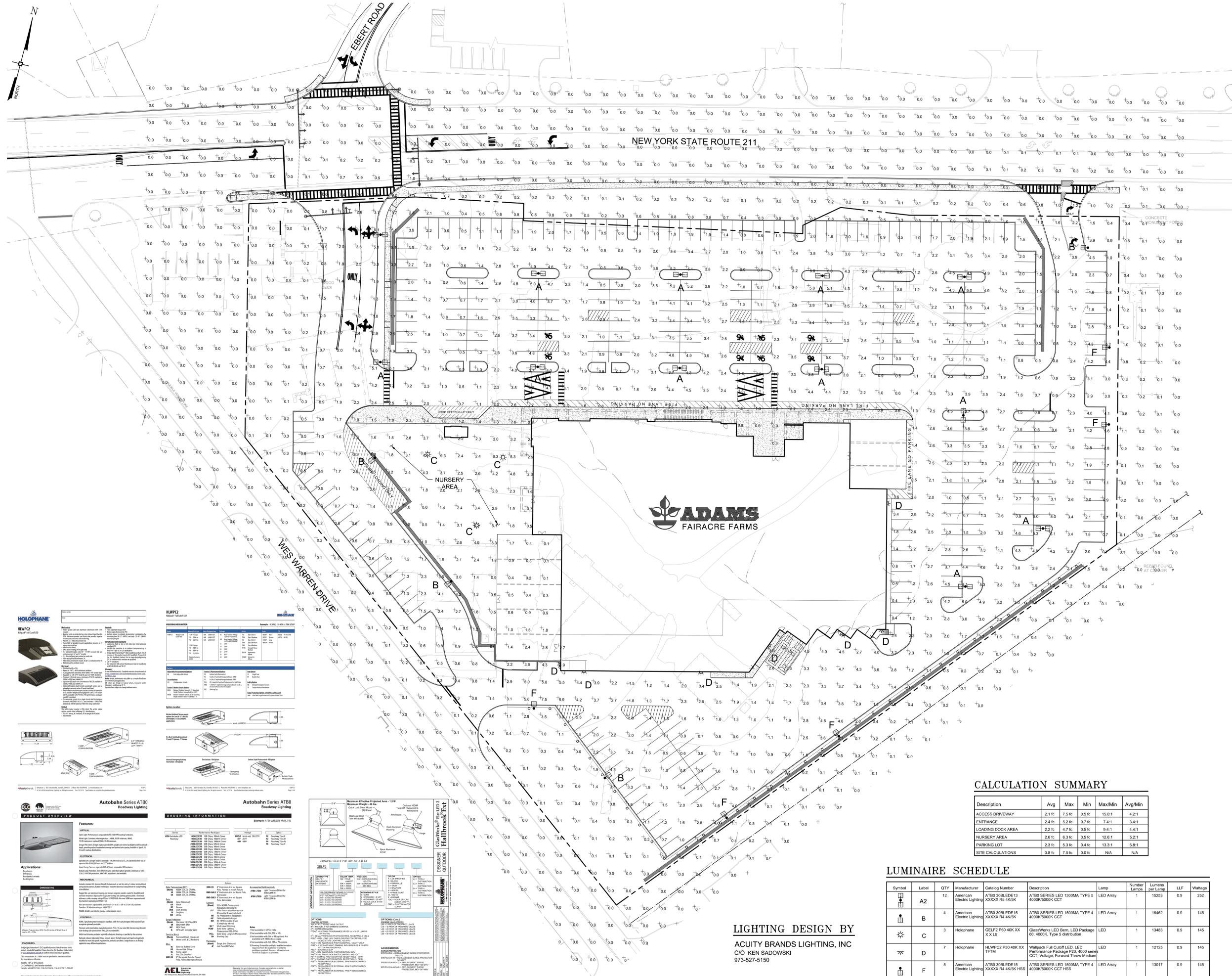
EROSION CONTROL PLAN
ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02
DATE: 09/21/2020
REVISION: 14 - 01/18/2022

DRAWN BY: JS
SCALE: 1"=30'
TAX LOT: 41-1-61-22

C-103

TOWN OF WALKKILL PB SHEET 5 OF 54



No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	01/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	03/22/21	REVISED FOR OGDH WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OGDH(3/22) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE FB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
10	07/14/21	REVISED EROSION CONTROL
11	09/01/21	FIELD CHANGE #2
12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO EBS

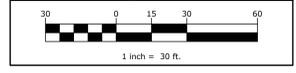
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<input checked="" type="checkbox"/>	PLANNING BOARD APPROVAL	6 OF 13
<input type="checkbox"/>	OGDHP REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input type="checkbox"/>	OGDHP WATERMAIN EXTENSION APPROVAL	N/A OF 3
<input type="checkbox"/>	NYSDEC APPROVAL	N/A OF N/A
<input type="checkbox"/>	NYS DOT APPROVAL	N/A OF N/A
<input type="checkbox"/>	OTHER	N/A OF N/A
<input type="checkbox"/>	FOR BID	N/A OF N/A
<input type="checkbox"/>	FOR CONSTRUCTION	N/A OF N/A

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JAY SAMUELSON, P.E.
NEW YORK LICENSE # 080203



CALCULATION SUMMARY

Description	Avg	Max	Min	Max/Min	Avg/Min
ACCESS DRIVEWAY	2.1 fc	7.5 fc	0.5 fc	15.0:1	4.2:1
ENTRANCE	2.4 fc	8.2 fc	0.7 fc	7.4:1	3.4:1
LOADING DOCK AREA	2.2 fc	4.7 fc	0.5 fc	9.4:1	4.4:1
NURSERY AREA	2.6 fc	6.3 fc	0.5 fc	12.6:1	5.2:1
PARKING LOT	2.3 fc	5.3 fc	0.4 fc	13.3:1	5.8:1
SITE CALCULATIONS	0.8 fc	7.5 fc	0.0 fc	N/A	N/A

LUMINAIRE SCHEDULE

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage
A2	A2	12	American Electric Lighting	AT80 30BLEDE13 XXXXX R4 4K/5K	AT80 SERIES LED 1300MA TYPE 5 4000K/5000K CCT	LED Array	1	15253	0.9	252
B	B	4	American Electric Lighting	AT80 30BLEDE15 XXXXX R4 4K/5K	AT80 SERIES LED 1500MA TYPE 4 4000K/5000K CCT	LED Array	1	16462	0.9	145
C	C	3	Holophane	GELF2 P50 40K XX X X L5	GlowWorks LED Bem. LED Package 60, 4000K, Type 5 distribution	LED	1	13483	0.9	145
D	D	7	Holophane	HLWPC2 P50 40K XX C/O	Walkpak Full Cut-off LED, LED Performance Package P20, 4000 series CCT, Voltage, Forward Throw Medium	LED	1	12125	0.9	145
F	F	5	American Electric Lighting	AT80 30BLEDE15 XXXXX R4 4K/5K HSS	AT80 SERIES LED 1500MA TYPE 4 4000K/5000K CCT HSS	LED Array	1	13017	0.9	145

LIGHTING DESIGN BY
ACUITY BRANDS LIGHTING, INC
C/O KEN SADOWSKI
973-527-5150

HOLOPHANE

HLWPC2

Product Overview

Features:

- Optical: Asymmetric beam spread, 120° beam spread, 120° beam spread, 120° beam spread.
- Electrical: 120V AC, 100W, 120V AC, 100W, 120V AC, 100W.
- Mechanical: 120V AC, 100W, 120V AC, 100W, 120V AC, 100W.

Applications:

- Highway
- Industrial
- Commercial
- Residential

HLWPC2

Part Number	Description	Notes
HLWPC2-100W-120V-120°	HLWPC2-100W-120V-120°	
HLWPC2-100W-120V-120°	HLWPC2-100W-120V-120°	

ORDERING INFORMATION

Examples: HLWPC2-100W-120V-120°

Part Number: HLWPC2-100W-120V-120°

Quantity: 1

Notes:

- HLWPC2-100W-120V-120°
- HLWPC2-100W-120V-120°

Autobahn Series AT80

Roadway Lighting

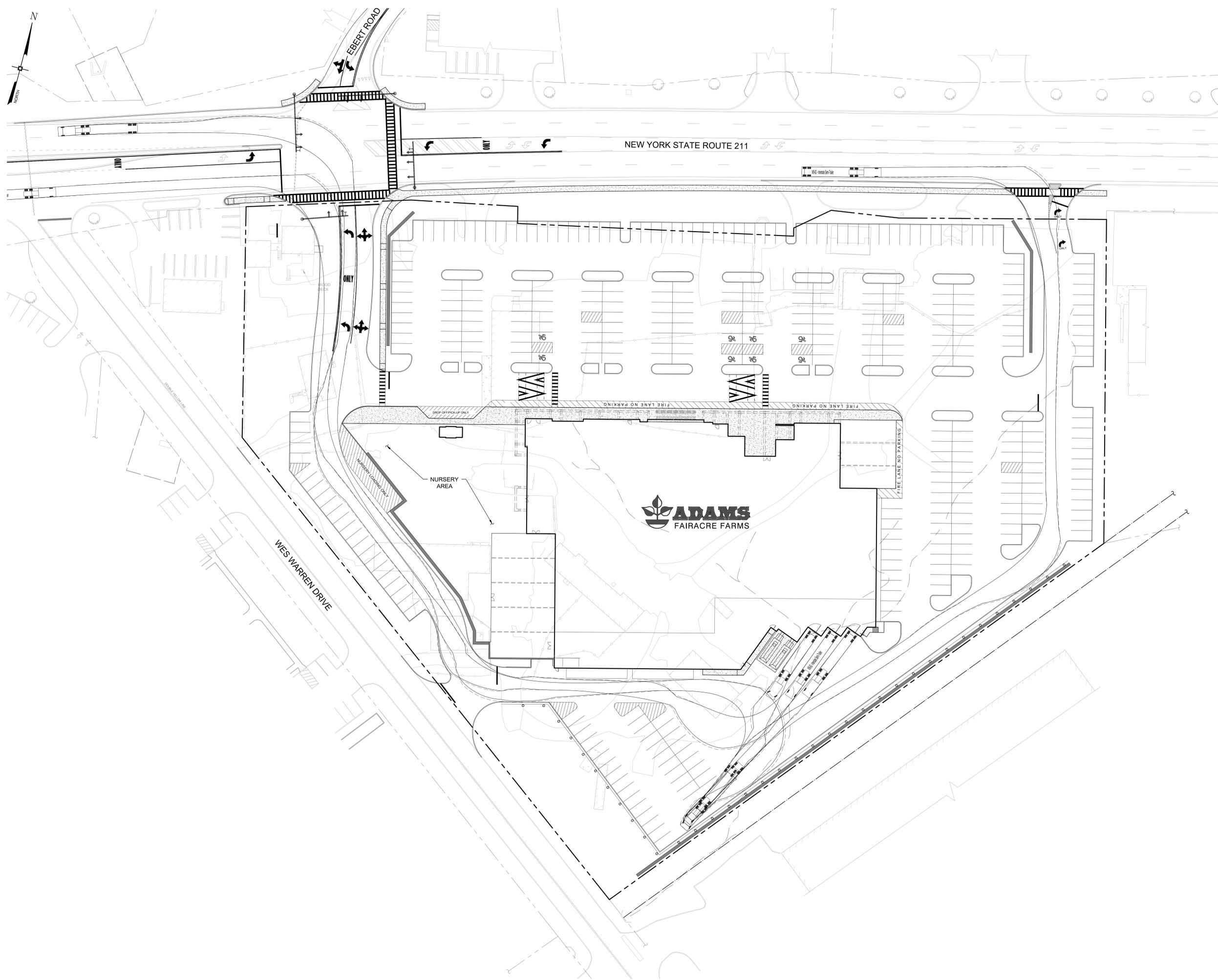
Product Overview

Features:

- Optical: Asymmetric beam spread, 120° beam spread, 120° beam spread, 120° beam spread.
- Electrical: 120V AC, 100W, 120V AC, 100W, 120V AC, 100W.
- Mechanical: 120V AC, 100W, 120V AC, 100W, 120V AC, 100W.

Applications:

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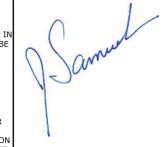
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THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		SHEET NUMBER
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<input type="checkbox"/>	OGDH REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input type="checkbox"/>	OGDH WATERMAIN EXTENSION APPROVAL	N/A OF 3
<input type="checkbox"/>	NYSDEC APPROVAL	N/A OF N/A
<input type="checkbox"/>	NYS DOT APPROVAL	N/A OF N/A
<input type="checkbox"/>	OTHER	N/A OF N/A
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NEW YORK LICENSE # 080023




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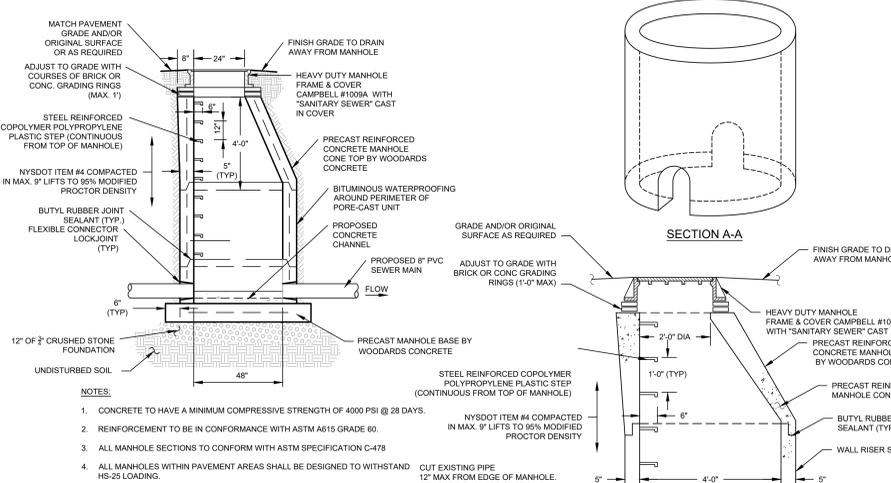
TRUCK MOVEMENT PLAN

ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALLKILL
ORANGE COUNTY, NEW YORK

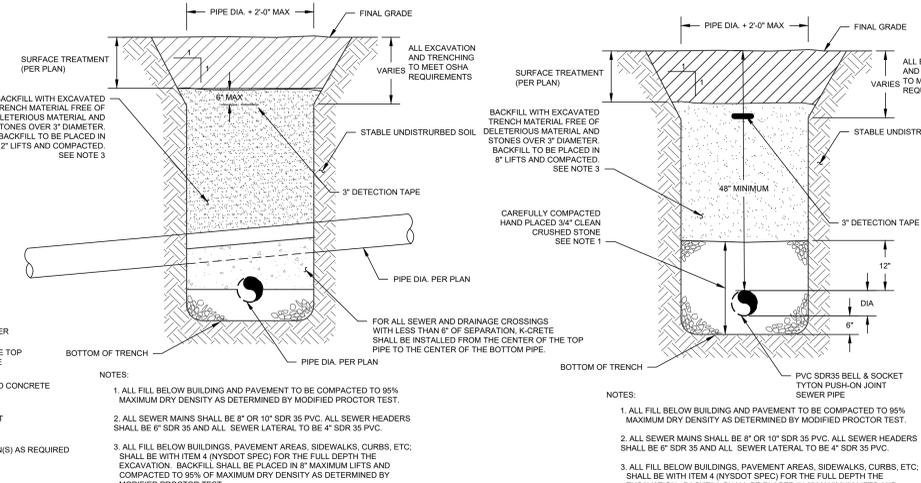
JOB #:	1378.02	DRAWN BY:	JS
DATE:	09/21/2020	SCALE:	1"=30'
REVISION:	14 - 01/18/2022	TAX LOT:	41-1-61.22

C-105

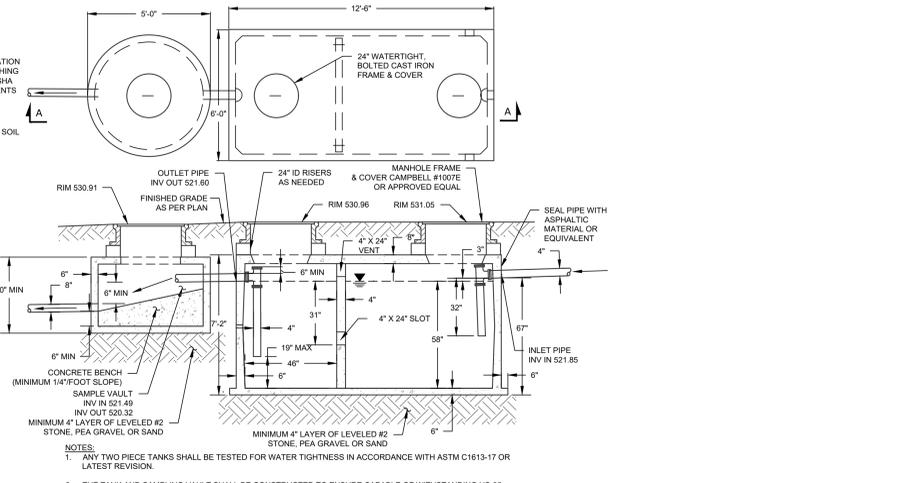
TOWN OF WALLKILL PB SHEET 7 OF 54



SEWER MANHOLE
SCALE: NTS



SEWER & DRAINAGE CROSSING WITH LESS THAN 6" SEPARATION BETWEEN PIPES
SCALE: NTS

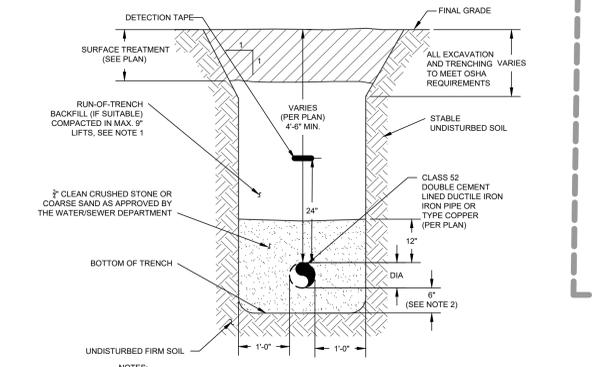


GREASE TRAP (2,000 GAL)
SCALE: NTS

SEWER SYSTEM NOTES

1. ALL GRAVITY SEWER PIPE SHALL BE SDR-35 PVC AND ALL FORCEMAIN SEWER PIPE SHALL BE SDR-35 PVC.
2. IF GROUNDWATER IS ENCOUNTERED DURING TRENCH EXCAVATION, THE CONTRACTOR SHALL DE-WATER THE TRENCH PRIOR TO INSTALLATION. ALL DE-WATERING OPERATIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
3. CONTRACTOR TO VERIFY INVERT ELEVATIONS OF EXISTING SEWER MAIN PRIOR TO COMMENCEMENT OF CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO COMMENCEMENT.
4. CONTRACTOR SHALL CALL THE TOWN OF WALKILL SEWER DEPARTMENT (845-342-1668) AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS FOR COMPLETE UTILITY MARKOUT.
5. CONTRACTOR SHALL CALL UNDERGROUND MARKOUT AT 1-800-962-7982 AT LEAST TWO DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF SEWERS FOR COMPLETE UTILITY MARKOUT.
6. THE SANITARY SEWER SYSTEM SHALL BE TESTED IN ACCORDANCE WITH TOWN OF WALKILL TOWN CODE SECTION 194-26, INCLUDING BUT NOT LIMITED TO VACUUM TESTING OF MANHOLES, LOW PRESSURE AIR TEST OF MAINS AND LATERALS, AND VIDEO RECORDING OF ALL MAINS.
7. THE PROPOSED SEWERMAIN SHALL BE INSTALLED IN ACCORDANCE WITH ALL TOWN OF WALKILL REQUIREMENTS. THE PROPOSED SEWERMAIN SHALL BE OWNED AND MAINTAINED BY THE PROJECT SPONSOR.

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



WATER PIPE TRENCH
SCALE: NTS

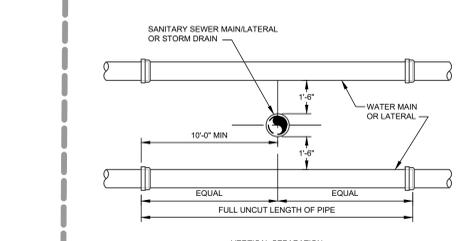
DOGHOUSE MANHOLE
SCALE: NTS



SEWER MANHOLE COVER
SCALE: NTS

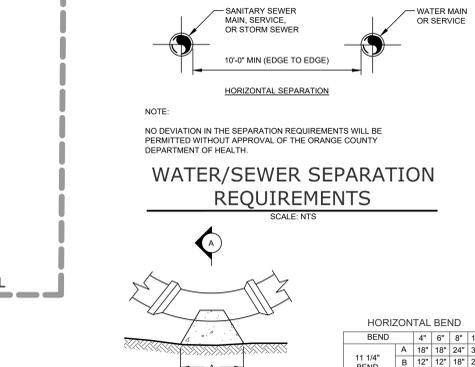
NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



WATER/SEWER SEPARATION REQUIREMENTS
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL

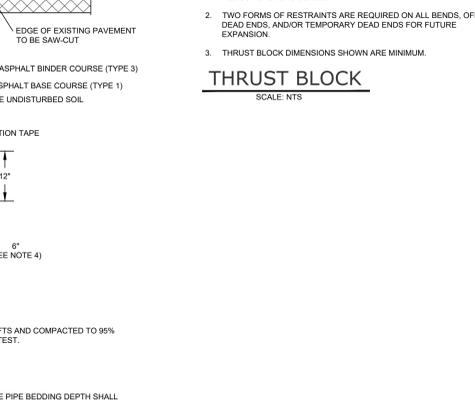


HYDRANT ASSEMBLY
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL

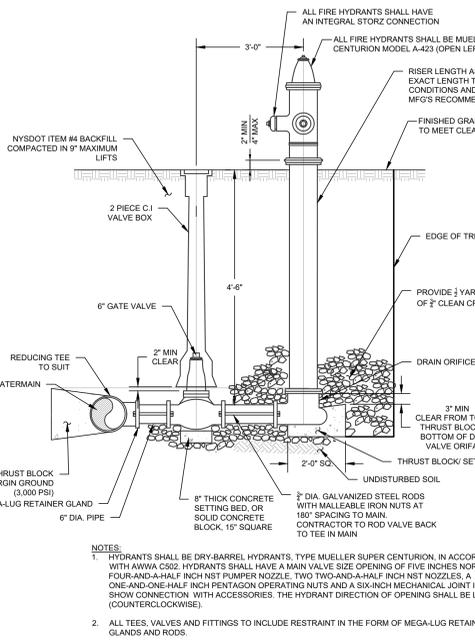
HORIZONTAL BEND		4"	6"	8"	10"	12"
11 1/4" BEND	A	18"	18"	24"	30"	33"
	B	12"	12"	18"	24"	24"
	C	12"	(MIN)			
22 1/2" BEND	A	18"	18"	24"	30"	33"
	B	12"	12"	18"	24"	24"
	C	12"	(MIN)			
45" BEND	A	24"	24"	30"	36"	45"
	B	18"	18"	24"	30"	33"
	C	12"	(MIN)			
80" BEND	A	30"	30"	42"	54"	66"
	B	24"	24"	30"	36"	42"
	C	12"	(MIN)			
TEE & PLUG	A	27"	27"	36"	42"	48"
	B	21"	21"	27"	36"	42"
	C	12"	(MIN)			

THRUST BLOCK
SCALE: NTS



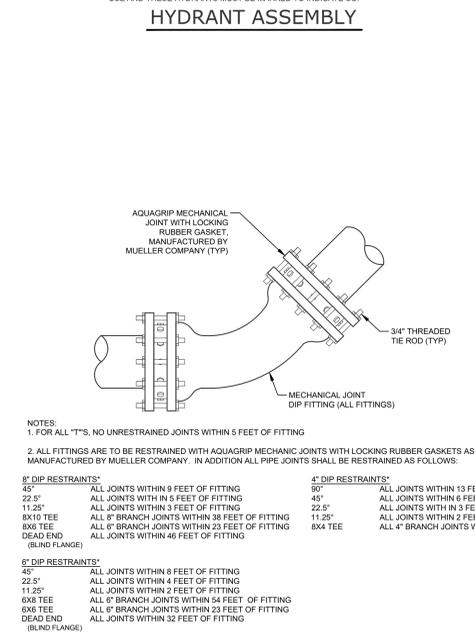
UTILITY PIPE TRENCH WITHIN TOWN OF WALKILL R.O.W.
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



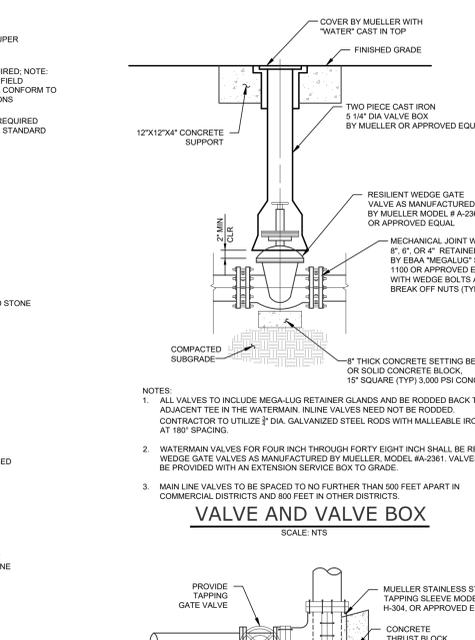
SEWER PIPE TRENCH
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



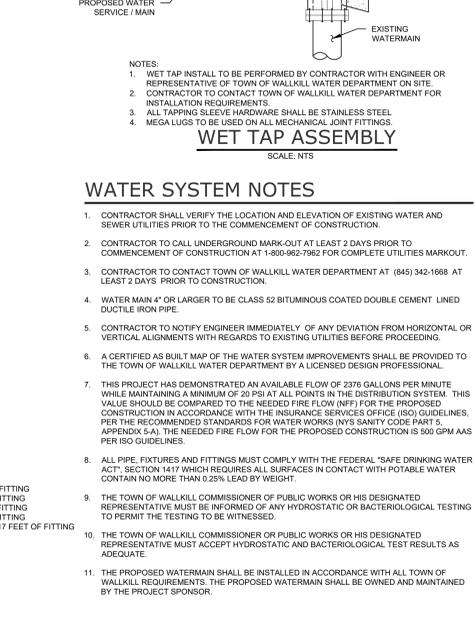
PIPE RESTRAINT DETAIL
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



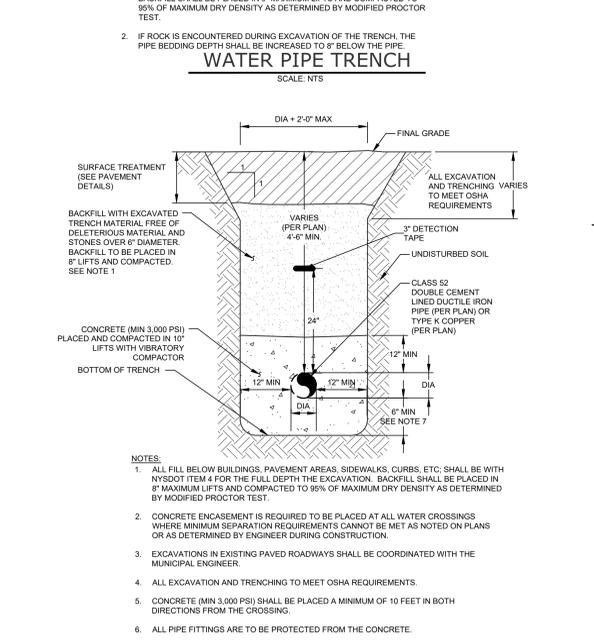
VALVE AND VALVE BOX
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



WET TAP ASSEMBLY
SCALE: NTS

NOT FOR OCHD WATERMAIN REVIEW OR APPROVAL



WATER PIPE TRENCH WITH ENCASEMENT
SCALE: NTS

Dig Safely. New York
Call 811
before you dig

No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	03/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
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14	01/18/22	ADDED WINTER CONDITIONS TO E&S

DRAWING STATUS		ISSUE DATE
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		SHEET NUMBER
<input checked="" type="checkbox"/>	CONCEPT APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/>	PLANNING BOARD APPROVAL	9 OF 13
<input checked="" type="checkbox"/>	OCODH REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/>	OCODH WATERMAIN EXTENSION APPROVAL	3 OF 3
<input checked="" type="checkbox"/>	NYSDC APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/>	NYSDOT APPROVAL	N/A OF N/A
<input type="checkbox"/>	OTHER	N/A OF N/A
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NEW YORK LICENSE # 080023

ORIGINAL SCALE IN INCHES

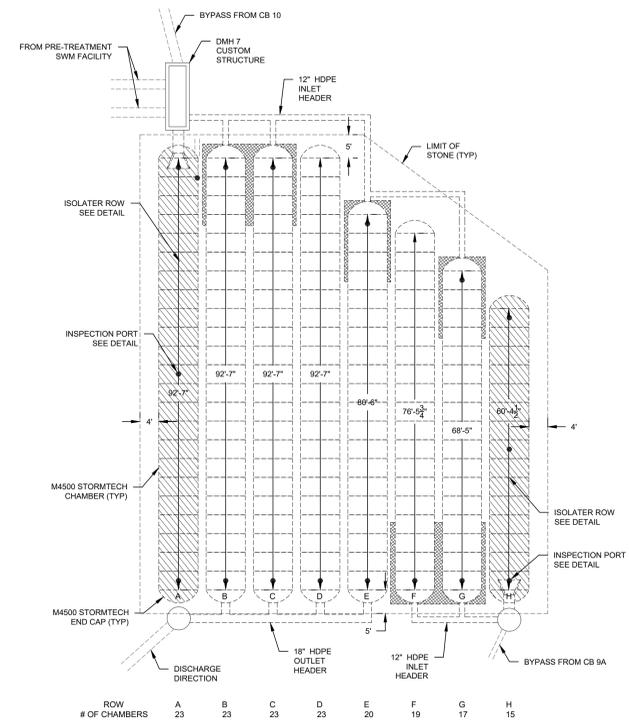
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DETAILS

ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKILL
ORANGE COUNTY, NEW YORK

JOB #:	1378.02	DRAWN BY:	JS
DATE:	09/21/2020	SCALE:	AS NOTED
REVISION:	14 - 01/18/2022	TAX LOT:	41-1-61.22



PROPOSED LAYOUT

163	STORMTECH MC-4500 CHAMBERS
16	STORMTECH MC-4500 END CAPS
39	STONE ABOVE (H)
9	STONE BELOW (H)
46	1/2\"/>

INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)

8310	SYSTEM AREA (H)
398	SYSTEM PERIMETER (H)

PROPOSED ELEVATIONS

530.59	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
526.88	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
525.58	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
525.58	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
525.58	TOP OF STONE
523.58	TOP OF MC-4500 CHAMBER
518.71	12\"/>

STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-4500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNDISTURBED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPIDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION: TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 300 LB-IN/IN. AND 3) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERY TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.65 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-4500 CHAMBER SYSTEM

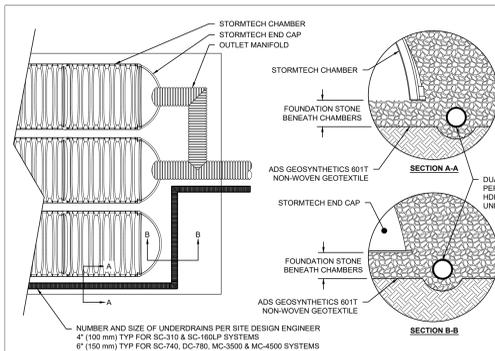
- STORMTECH MC-4500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS THE "BACKFILL METHOD".
 - STONE/ROCKER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEALED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM - 1" (25 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER EXCEED BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXISTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

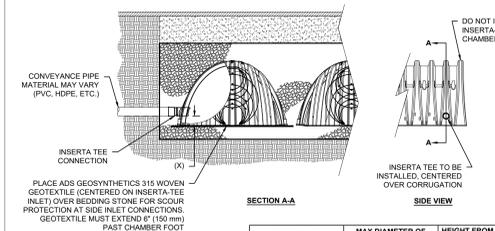
- STORMTECH MC-4500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - NO EQUIPMENT IS ALLOWED OVER CHAMBERS.
 - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
 - FULL 3" (80 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
- USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.
- CONTACT STORMTECH AT 1-888-892-2698 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

DEEP TEST HOLE RESULTS

TEST HOLE #	DATE	SURFACE ELEVATION	DEPTH	DESCRIPTION
INF 01	10/28/20	521.55	0' - 0" - 48" - 72" - 96"	MISCELLANEOUS FILL MATERIAL CLAY SAND LOAM GROUNDWATER @ 88", NO MOTTLING, NO ROCK
INF 02	10/28/20	521.82	0' - 0" - 60" - 84" - 108"	MISCELLANEOUS FILL MATERIAL CLAY SAND LOAM GROUNDWATER @ 89", NO MOTTLING, NO ROCK
INF 03	10/28/20	520.08	0' - 0" - 2" - 36" - 42" - 48" - 72"	TOPSOIL TAN SILTY CLAYEY LOAM MISCELLANEOUS FILL MATERIAL CLAY SAND LOAM NO GROUNDWATER, NO MOTTLING, NO ROCK
INF 04	10/28/20	520.11	0' - 0" - 64" - 72"	MISCELLANEOUS FILL MATERIAL CLAY SAND LOAM GROUNDWATER @ 64", NO MOTTLING, NO ROCK



5 UNDERDRAIN DETAIL

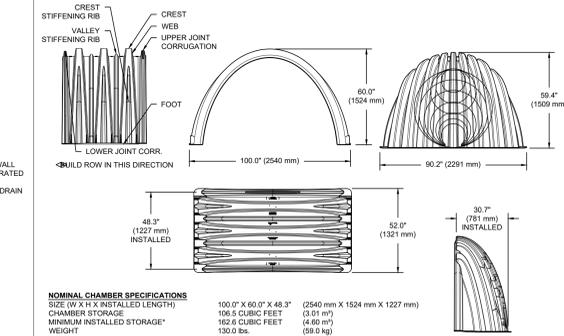


CHAMBER	MAX DIAMETER OF INSERT-A-TEE	HEIGHT FROM BASE OF CHAMBER (H)
SC-310	6" (150 mm)	4" (100 mm)
SC-740	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)

NOTE: PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

INFILTRATION TEST RESULTS

TEST HOLE #	TEST HOLE DEPTH	TEST HOLE DIA.	TIME	INFILTRATION TEST RUNS (WATER DROP IN INCHES OVER ONE HOUR)	AVERAGE DROP
10/28/20 IT-01	42"	8"	START	09:45 AM - 10:45 AM - 11:45 AM - 12:45 PM	0.56
			FINISH	10:45 AM - 11:45 AM - 12:45 PM - 1:45 PM	
			DROP	0.75 - 0.50 - 0.50 - 0.50	
10/28/20 IT-02	45"	8"	START	9:10 AM - 10:10 AM - 11:10 AM - 12:10 PM	1.00
			FINISH	10:10 AM - 11:10 AM - 12:10 PM - 1:10 PM	
			DROP	1.0 - 1.0 - 1.0 - 1.0	
10/28/20 IT-03	24"	8"	START	12:55 PM - 1:55 PM - 2:55 PM - 3:55 PM	0.69
			FINISH	1:55 PM - 2:55 PM - 3:55 PM - 4:55 PM	
			DROP	0.75 - 0.75 - 0.75 - 0.50	
10/28/20 IT-04	30"	8"	START	1:15 PM - 2:15 PM - 3:15 PM - 4:15 PM	0.50
			FINISH	2:15 PM - 3:15 PM - 4:15 PM - 5:15 PM	
			DROP	0.50 - 0.50 - 0.50 - 0.50	



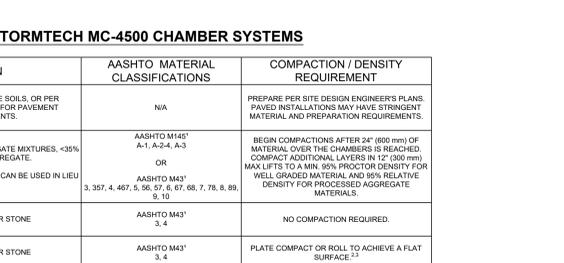
6 INSERT-A-TEE SIDE INLET DETAIL

PART #	STUB	B	C
MC4500REPE6T	6" (150 mm)	42.54" (1081 mm)	0.86" (22 mm)
MC4500REPE8B	8" (200 mm)	40.50" (1029 mm)	---
MC4500REPE9B	9" (225 mm)	---	1.01" (26 mm)
MC4500REPE10T	10" (250 mm)	38.37" (975 mm)	---
MC4500REPE10B	10" (250 mm)	35.69" (907 mm)	1.33" (34 mm)
MC4500REPE12T	12" (300 mm)	35.69" (907 mm)	1.55" (39 mm)
MC4500REPE12B	12" (300 mm)	32.72" (833 mm)	---
MC4500REPE15T	15" (375 mm)	---	1.70" (43 mm)
MC4500REPE15B	15" (375 mm)	29.38" (746 mm)	---
MC4500REPE18TW	18" (450 mm)	---	1.97" (50 mm)
MC4500REPE18TC	18" (450 mm)	---	---
MC4500REPE18TB	18" (450 mm)	23.05" (585 mm)	---
MC4500REPE24TC	24" (600 mm)	---	2.26" (57 mm)
MC4500REPE24TB	24" (600 mm)	---	2.26" (57 mm)
MC4500REPE36C	36" (900 mm)	---	3.27" (83 mm)
MC4500REPE36B	36" (900 mm)	---	3.27" (83 mm)
MC4500REPE42BC	42" (1050 mm)	---	3.55" (90 mm)

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B" STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T" END CAPS WITH A WELDED CROWN PLATE END WITH "C" END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

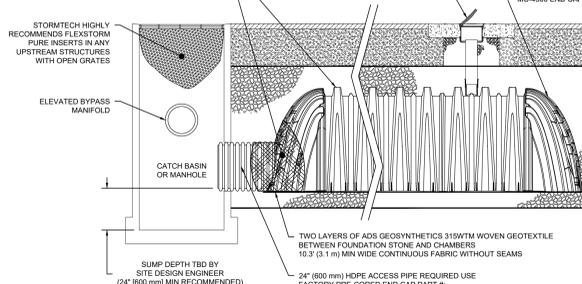
NOTE: ALL DIMENSIONS ARE NOMINAL.

7 MC-SERIES END CAP INSERTION DETAIL

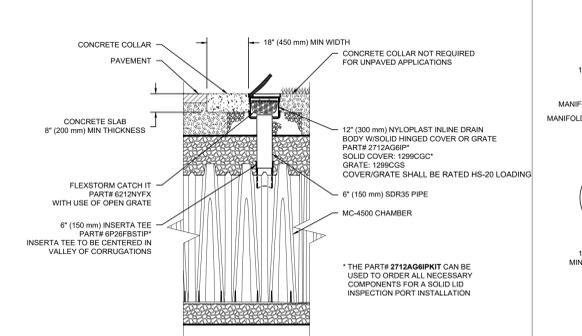


- NOTES:**
- MC-4500 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
 - ACCEPTABLE FILL MATERIALS TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
 - THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
 - ONCE LAYER 'C' IS PLACED, ANY SOL MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST EXPLOVED SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
 - PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

3 MC-4500 ISOLATOR ROW DETAIL



4 MC-4500 6" (150 mm) INSPECTION PORT DETAIL



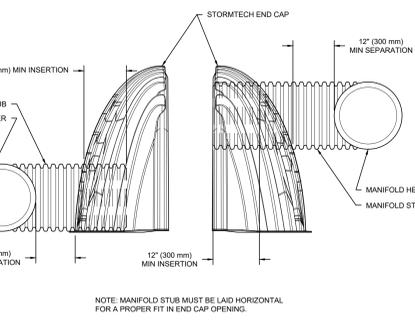
5 INSPECTION & MAINTENANCE

- STEP 1** INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
 - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
 - REMOVE AND CLEAN FLEXISTORM FILTER IF INSTALLED
 - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
 - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS**
- REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
 - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2** CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A JETVAC CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
 - VACUUM STRUCTURE SLUMP AS REQUIRED
- STEP 3** REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.
- STEP 4** INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION, ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

7 MC-SERIES END CAP INSERTION DETAIL



6 ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS

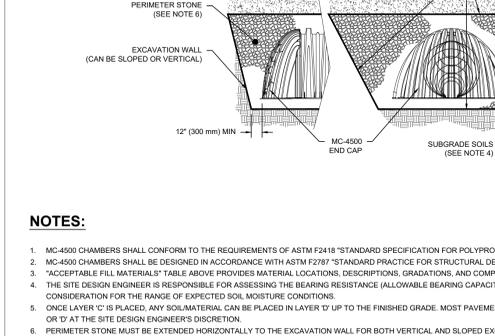
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (OR LAYER 'D' TO 4" (100 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE 'C' LAYER.	AASHTO M140 ¹ A-1, A-2, A-3 OR AASHTO M33 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 5, 10	BEFORE COMPACTIONS AFTER 24" (600 mm) OF INITIAL FILL THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 90% PROCTOR OR DENSITY FOR WELL GRADED MATERIAL AND 80% RELATIVE DENSITY FOR PROCEDED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ³ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ³ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR A STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERS WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



21 MC-4500 CROSS SECTION DETAIL



Dig Safely. New York
Call 811
before you dig

No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	03/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	03/12/21	REVISED FOR OCCOON WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OCCOON(3/2) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE PB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
10	07/14/21	REVISED EROSION CONTROL
11	09/01/21	FIELD CHANGE #2
12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO EBS

DRAWING STATUS		ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		01/18/2022
<input type="checkbox"/>	CONCEPT APPROVAL	N/A
<input checked="" type="checkbox"/>	PLANNING BOARD APPROVAL	10 OF 13
<input type="checkbox"/>	OCCOON REALTY SUBDIVISION APPROVAL	N/A
<input type="checkbox"/>	OCCOON WATERMAIN EXTENSION APPROVAL	N/A
<input type="checkbox"/>	NYSDEC APPROVAL	N/A
<input type="checkbox"/>	NYSDOT APPROVAL	N/A
<input type="checkbox"/>	OTHER	N/A
<input type="checkbox"/>	FOR BID	N/A
<input type="checkbox"/>	FOR CONSTRUCTION	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 IDENTIFIED PLAN SET(S).

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

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DETAILS

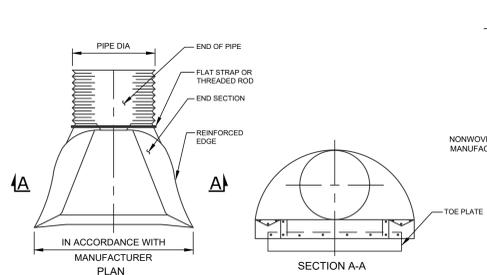
ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02
DATE: 09/21/2020
REVISION: 14 - 01/18/2022

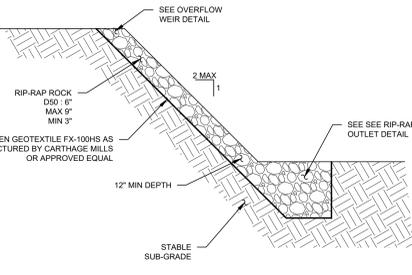
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C-302

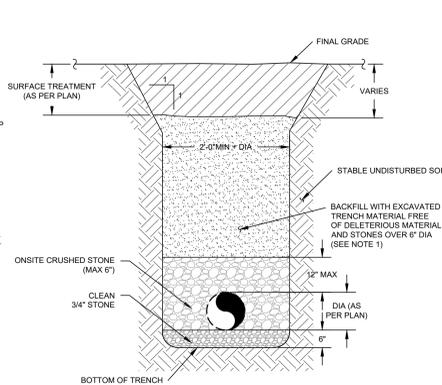
TOWN OF WALKKILL PB SHEET 10 OF 54



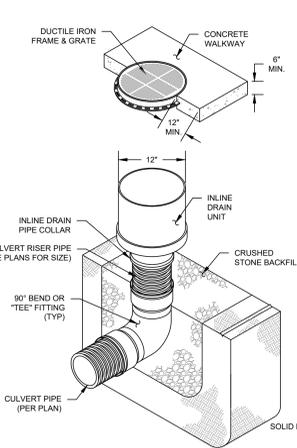
FLARED END SECTION
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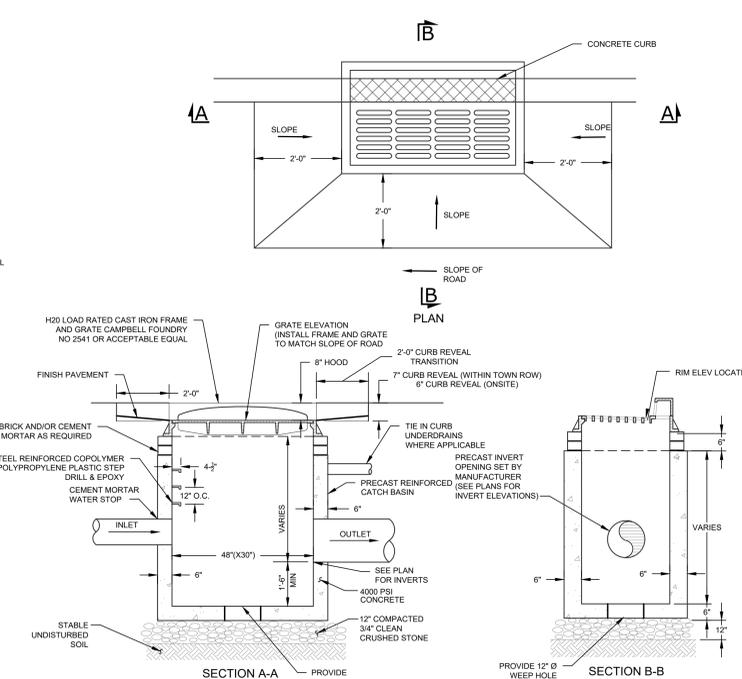
RIP-RAP SLOPE DETAIL
SCALE: N.T.S.



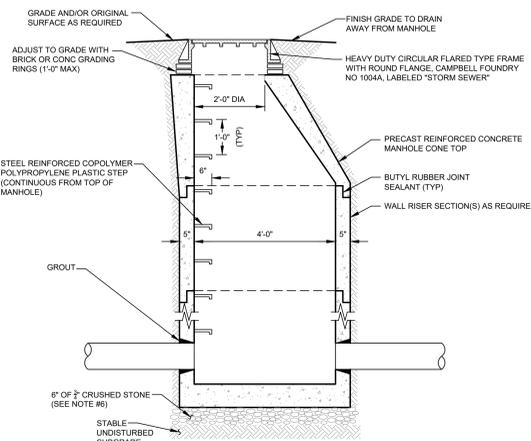
DRAINAGE PIPE TRENCH
SCALE: N.T.S.



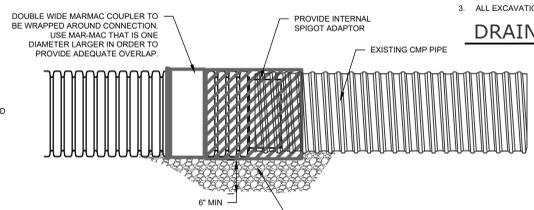
12\"/>



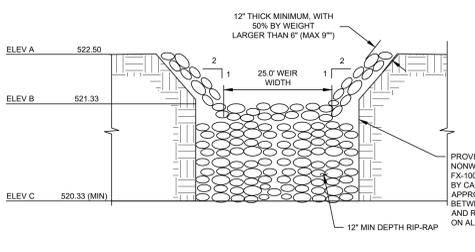
CATCH BASIN
SCALE: N.T.S.



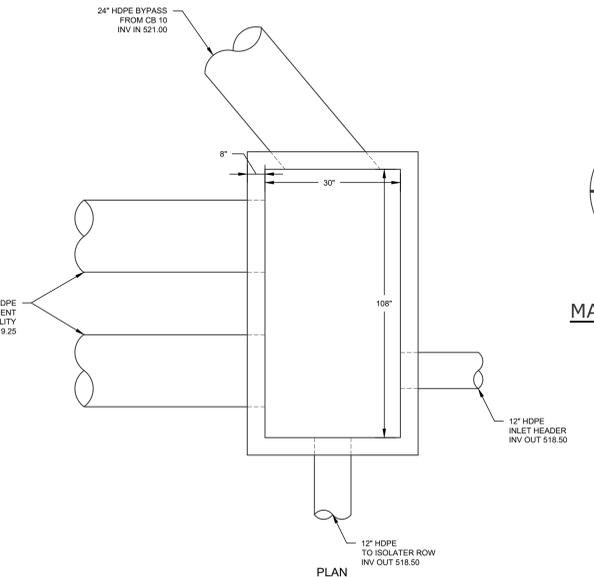
DRAINAGE MANHOLE
SCALE: N.T.S.



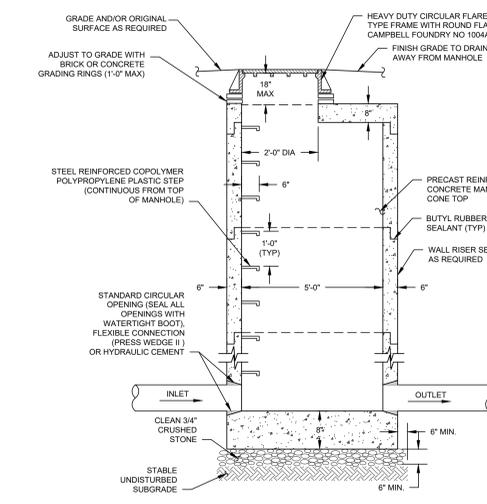
PIPE COUPLER
SCALE: N.T.S.



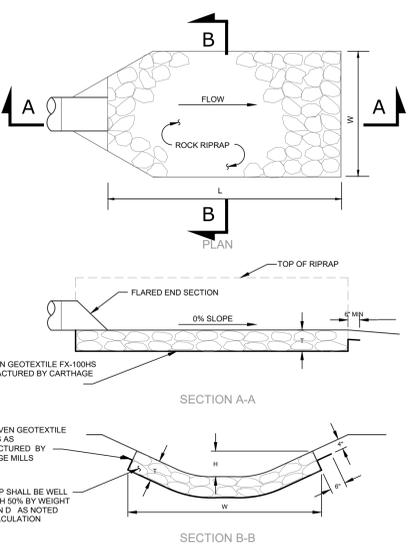
OVERFLOW WEIR
SCALE: N.T.S.



DRAINAGE MANHOLE COVER
SCALE: N.T.S.



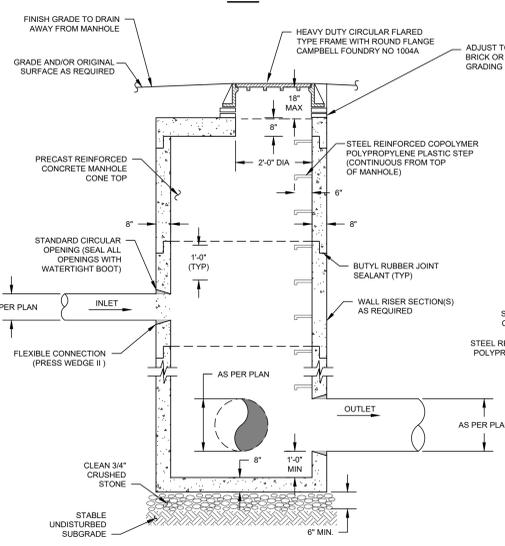
OVERSIZED DRAINAGE MANHOLE
SCALE: N.T.S.



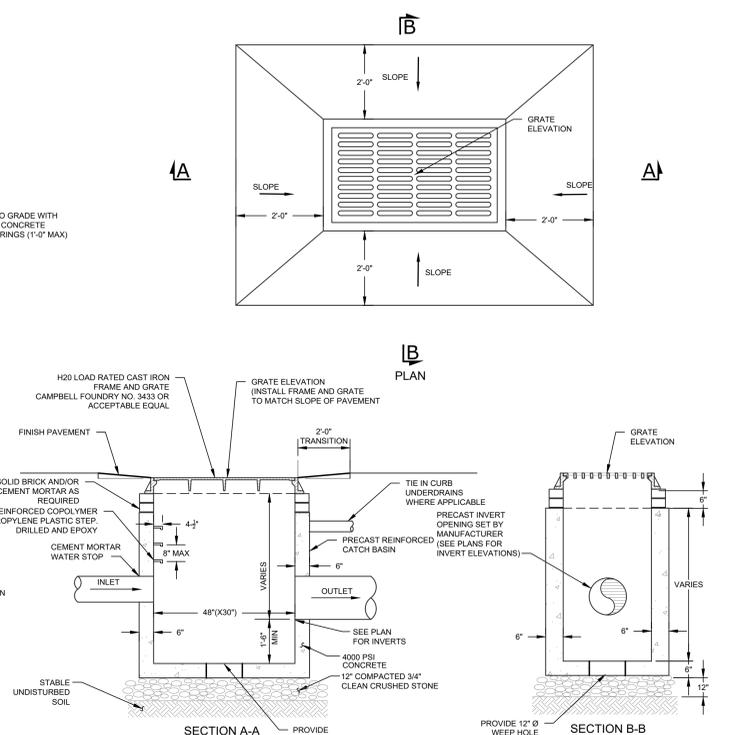
FES OUTLET PROTECTION
SCALE: N.T.S.

OUTLET PROTECTION SIZING CALCULATIONS

END SECTION	DIA. (in)	Q _{max} (cfs)	V _{max} (ft/s)	D ₅₀ (in)	Q _{max} (ft)	L (ft)	W (ft)	T (in)	H (in)
FES 1	15	8.1	6.6	6	9	10	11.25	12	18
FES 2	15	11.8	7.6	9	12	12	13.25	12	18
FES 3	36	139.0	19.7	16	27	32	12	36	36
FES 4	12	5.8	7.4	6	9	10	11	12	15



OVERSIZED DRAINAGE STRUCTURE (DMH 7)
SCALE: N.T.S.



CATCH BASIN (FLAT GRATE)
SCALE: N.T.S.

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No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	01/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	02/12/21	REVISED FOR OGDH WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OGDH(3/22) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE PB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
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12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO E&S

DRAWING STATUS		ISSUE DATE:
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR		01/18/2022
CONCEPT APPROVAL	N/A OF N/A	SHEET NUMBER
PLANNING BOARD APPROVAL	11 OF 13	
OGDH REALTY SUBDIVISION APPROVAL	N/A OF N/A	
OGDH WATERMAIN EXTENSION APPROVAL	N/A OF 3	
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

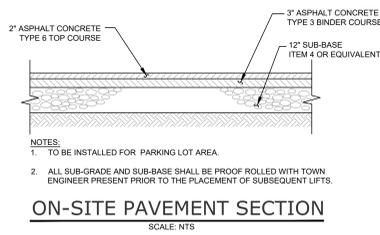
ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02
DATE: 09/21/2020
REVISION: 14 - 01/18/2022

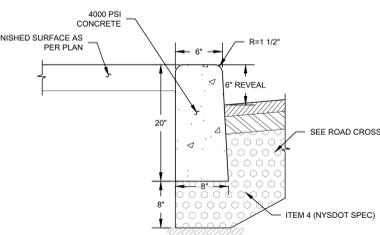
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C-303

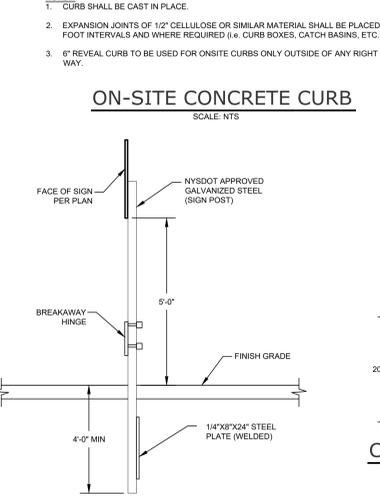
TOWN OF WALKILL PB SHEET 11 OF 54



ON-SITE PAVEMENT SECTION
SCALE: NTS



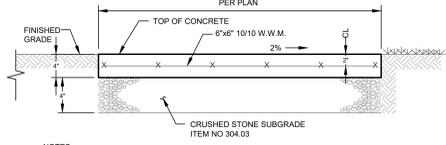
ON-SITE CONCRETE CURB
SCALE: NTS



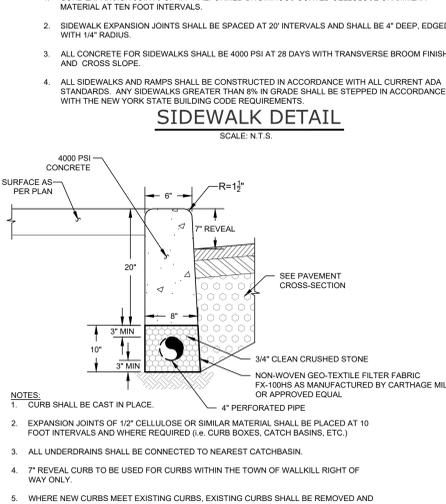
SIGN POST
SCALE: NTS

SIGN	TEXT	M.U.T.C.D. No.	SIZE OF SIGN	TYPE OF MOUNT	DESCRIPTION
NP	NO PARKING ANY TIME	P1-1C	12" x 18"	GR MTD	WHITE BACKGROUND RED LETTERING
STOP	STOP	R1-1C	36" x 36"	GR MTD	RED BACKGROUND WHITE LEGEND
HC	RESERVED PARKING	M12-1	18" x 24"	GR MTD	BLUE BACKGROUND BLACK SYMBOL WHITE LETTERING
FL	NO PARKING FIRE LANE	RB-31	12" x 18"	BLDG MTD	WHITE BACKGROUND RED LETTERING
OPU	RESERVED PARKING ONE HOUR PICK UP ONLY		12" x 18"	GR MTD	WHITE/GREEN BACKGROUND WHITE/GREEN LETTERING
NLT	NO LEFT TURN	R3-2	24" x 24"	GR MTD	WHITE BACKGROUND BLACK SYMBOL RED CIRCLE & DIAG.
ND	NO DELIVERIES ALL DELIVERIES TO USE ROUTE 211		24" x 24"	GR MTD	WHITE BACKGROUND RED LETTERING
TE	TRUCK EXIT ALL TRUCKS MUST EXIT AT ROUTE 211		24" x 24"	GR MTD	WHITE BACKGROUND RED LETTERING
PED	STATE LAW YIELD TO WITHIN CROSSWALK	R1-6	12" x 36"	GR MTD WITH FLEXIBLE PORTABLE BASE	YELLOW & WHITE BACKGROUND RED YIELD SYMBOL BLACK LETTERING

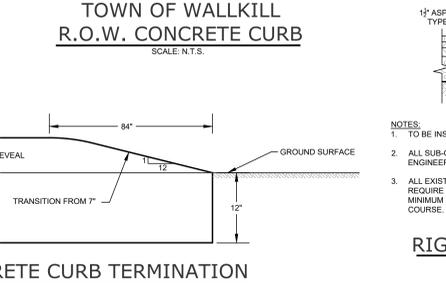
SIGN SCHEDULE
SCALE: NTS



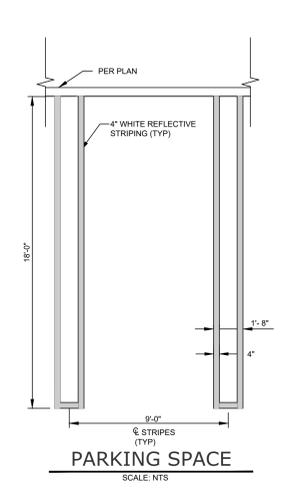
SIDEWALK DETAIL
SCALE: NTS



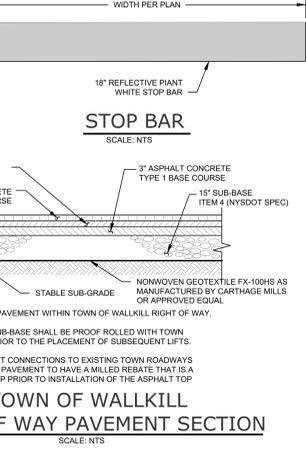
TOWN OF WALKKILL R.O.W. CONCRETE CURB
SCALE: NTS



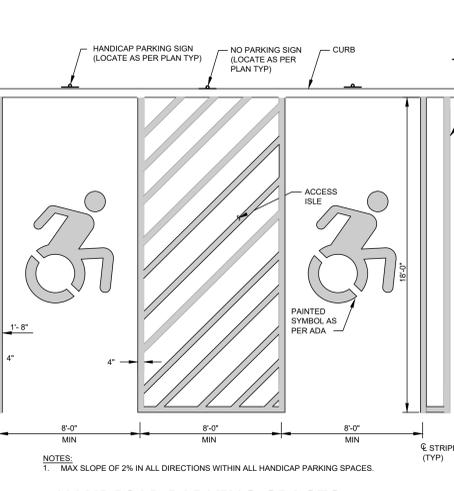
CONCRETE CURB TERMINATION
SCALE: NTS



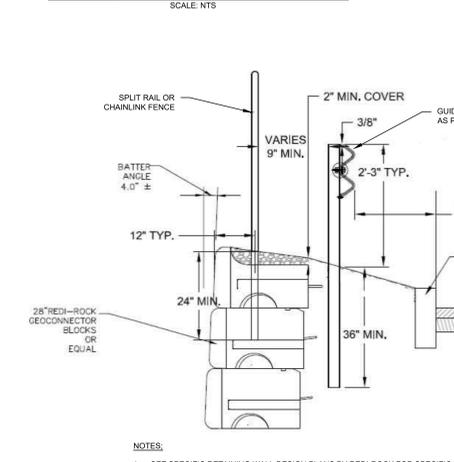
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SCALE: NTS



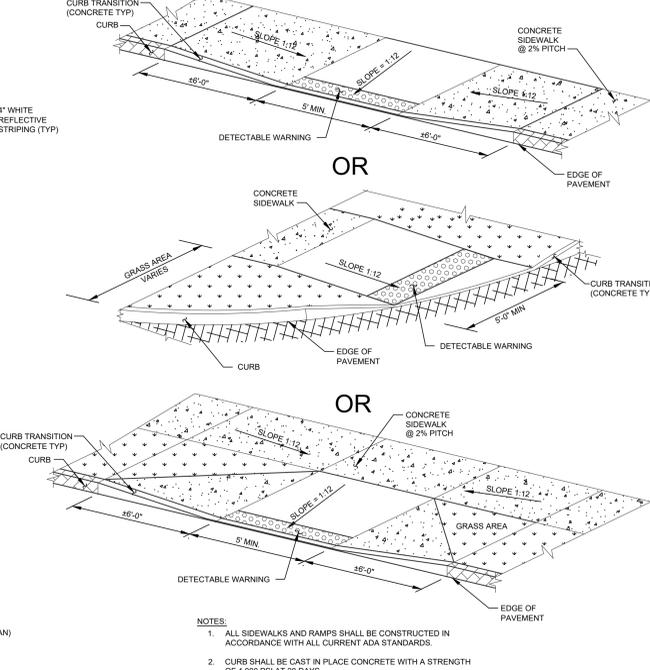
TOWN OF WALKKILL RIGHT OF WAY PAVEMENT SECTION
SCALE: NTS



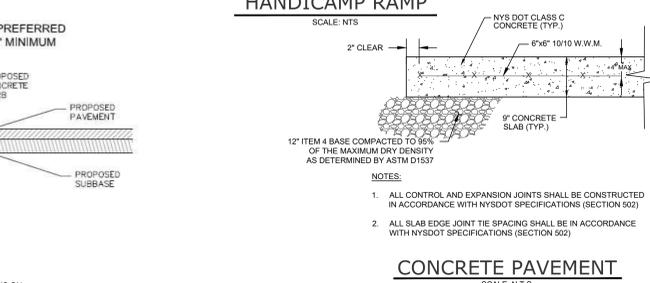
HANDICAP PARKING SPACES
SCALE: NTS



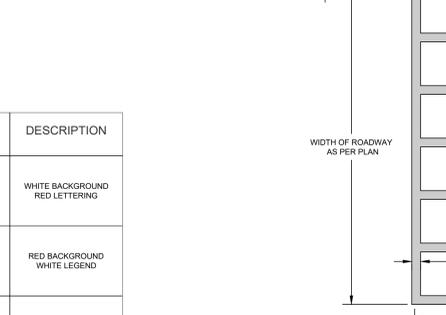
REDI-ROCK TYPICAL WALL DETAIL
SCALE: NTS



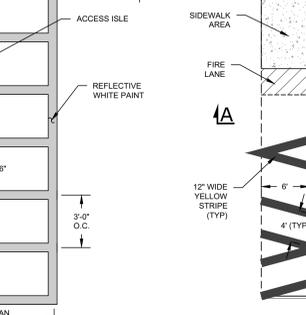
HANDICAMP RAMP
SCALE: NTS



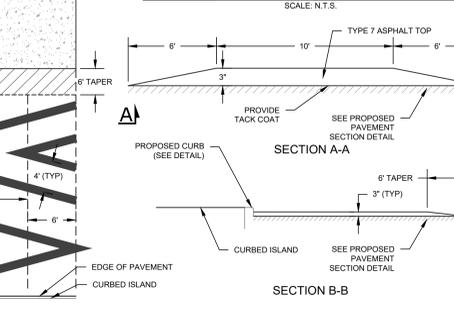
CONCRETE PAVEMENT
SCALE: NTS



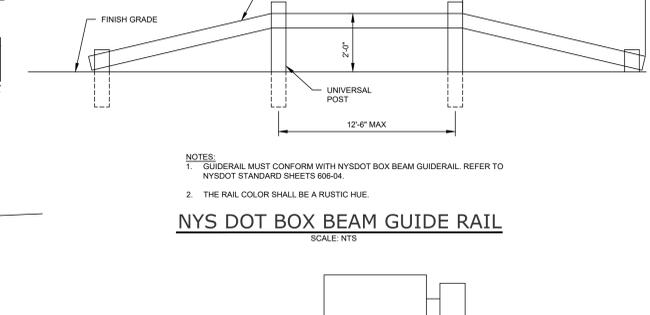
PEDESTRIAN CROSSWALK
SCALE: NTS



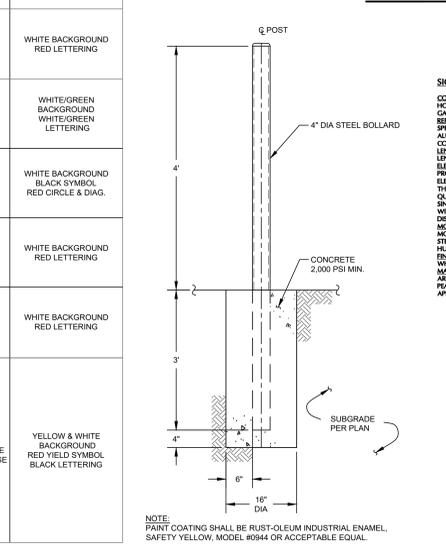
SPEED TABLE DETAIL
SCALE: NTS



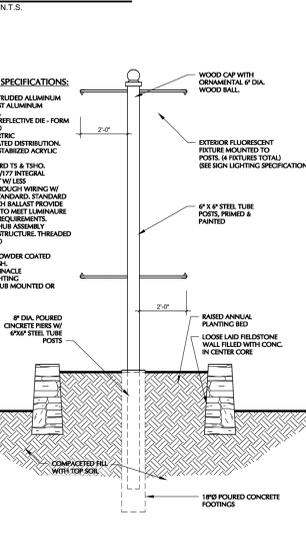
NYS DOT BOX BEAM GUIDE RAIL
SCALE: NTS



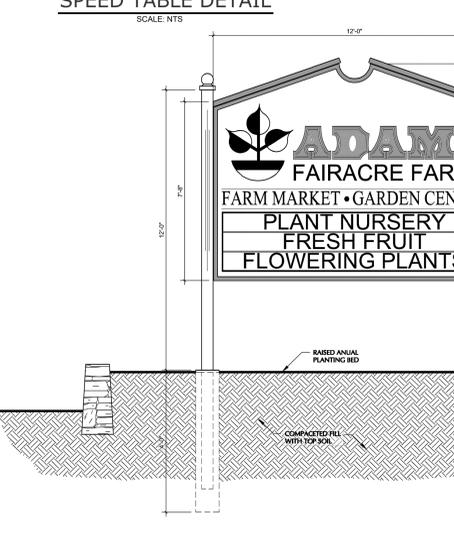
LIGHT
SCALE: NTS



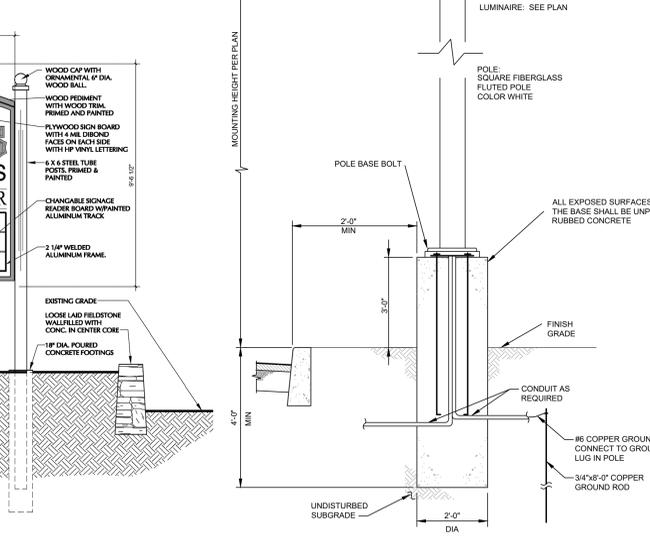
BOLLARD
SCALE: NTS



FREE STANDING SIGN DETAIL
SCALE: NTS



SIGN LIGHTING SPECIFICATIONS



LIGHT
SCALE: NTS

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No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	03/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	03/21/21	REVISED FOR OGDON WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OGDON(3/2) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE PB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
10	07/14/21	REVISED EROSION CONTROL
11	09/01/21	FIELD CHANGE #2
12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO E&S

DRAWING STATUS	ISSUE DATE:
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<input type="checkbox"/> CONCEPT APPROVAL	N/A OF N/A
<input checked="" type="checkbox"/> PLANNING BOARD APPROVAL	12 OF 13
<input type="checkbox"/> OGDON REALTY SUBDIVISION APPROVAL	N/A OF N/A
<input type="checkbox"/> OGDON WATERMAIN EXTENSION APPROVAL	N/A OF 3
<input type="checkbox"/> NYSDEC APPROVAL	N/A OF N/A
<input type="checkbox"/> NYSOT APPROVAL	N/A OF N/A
<input type="checkbox"/> OTHER	N/A OF N/A
<input type="checkbox"/> FOR BID	N/A OF N/A
<input type="checkbox"/> FOR CONSTRUCTION	N/A OF N/A

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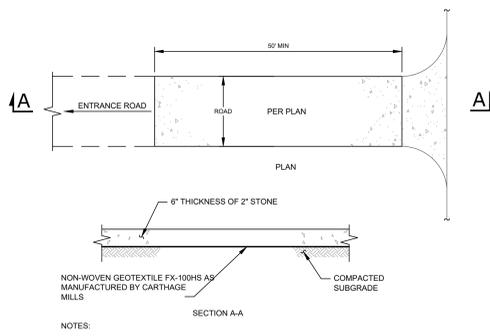
DETAILS
ADAMS FAIRACRE FARMS
636 NYS ROUTE 211 EAST
TOWN OF WALKKILL
ORANGE COUNTY, NEW YORK

JOB #: 1378.02
DATE: 09/21/2020
REVISION: 14 - 01/18/2022

DRAWN BY: JS
AS NOTED
TAX LOT: 41-1-61-22

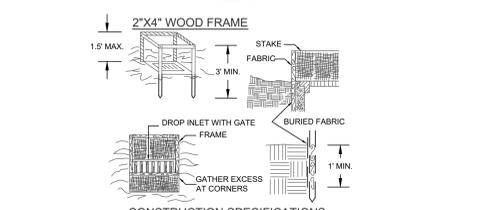
C-304

TOWN OF WALKKILL PB SHEET 12 OF 54



- NOTES:**
- STONE SIZE - USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
 - WIDTH - 24 FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
 - SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTAINABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
 - MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE 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.
 - 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.
 - PERIODIC INSPECTIONS AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE
SCALE: N.T.S.

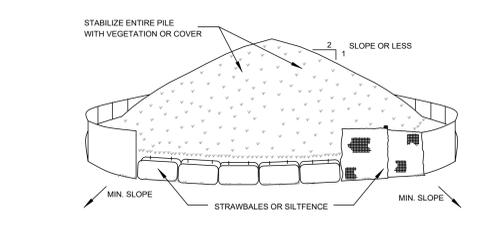


- CONSTRUCTION SPECIFICATIONS:**
- FILTER FABRIC SHALL HAVE AN EOS OF 40-65. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
 - CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
 - STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
 - SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPACES GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
 - FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
 - A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY. MAXIMUM DRAINAGE AREA 1 ACRE.

CONSTRUCTION SPECIFICATIONS:

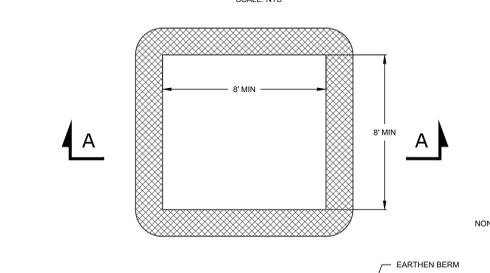
- ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER OBJECTIONABLE SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE WATERWAY.
- THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS SECTION AS REQUIRED TO MEET THE CRITERIA SPECIFIED HEREIN, AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
- 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.
- 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 CANYNGRASS, TALL FESCUE, KENTUCKY BLUEGRASS.

FILTER FABRIC DROP INLET PROTECTION
NOT TO SCALE



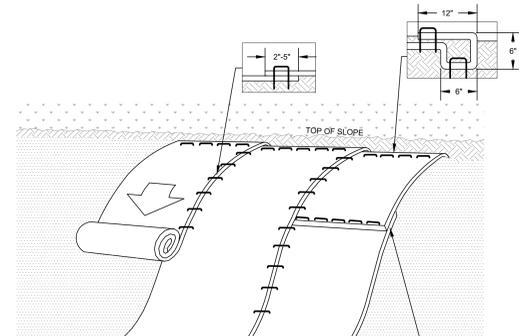
- NOTES:**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
 - MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
 - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED A WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
 - SEE SPECIFICATIONS (THIS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

SOIL STOCKPILING
SCALE: N.T.S.



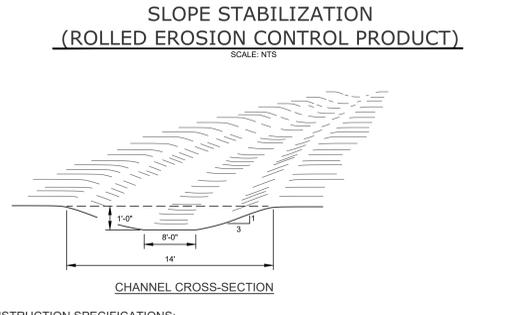
- NOTE:**
- PLASTIC LINER SHALL BE INSPECTED DAILY TO ENSURE THAT THERE ARE NO HOLES OR TEARS. IF ANY HOLES OR TEARS ARE FOUND THE LINER SHALL BE REPLACED AND CLEANED IMMEDIATELY. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
 - WASHOUT FACILITY SHALL BE LOCATED A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS OR OTHER SURFACE WATERS.
 - 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.
 - DISPOSE OF THE HARDENED MATERIAL OFF-SITE IN A CONSTRUCTION/DEMOLITION LANDFILL.

CONCRETE WASHOUT
SCALE: N.T.S.



PERFORATED RISER PIPE
SCALE: N.T.S.

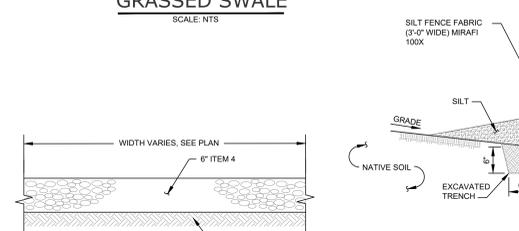
- NOTES:**
- ROLLED EROSION CONTROL PRODUCT (RECP'S) SHALL BE USED ON ALL CONSTRUCTED SLOPES GREATER THAN 3 HORIZONTAL TO 1 VERTICAL.
 - PREPARATION OF THE SOIL INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY RECP'S.
 - INSTALL RECP - NORTH AMERICAN GREEN BIONET S150N 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.
 - ROLL THE RECP'S DOWN THE SLOPE OR HORIZONTALLY ACROSS THE SLOPE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE PRODUCTS STAPLE PATTERN GUIDE.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2" TO 5" OVERLAP DEPENDING ON RECP'S TYPE.
 - 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: N.T.S.

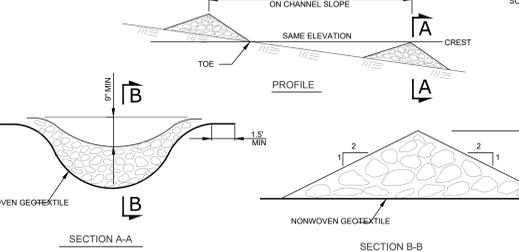
- CONSTRUCTION SPECIFICATIONS:**
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GRASSED SWALE
SCALE: N.T.S.



TEMPORARY GRAVEL PARKING AREA
SCALE: N.T.S.

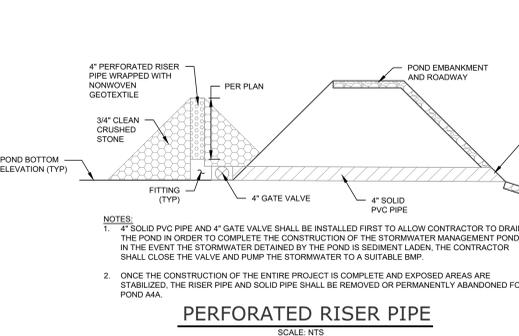
- NOTES:**
- SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION AND SOIL STABILIZATION PERIOD.



SILT FENCE
SCALE: N.T.S.

- CONSTRUCTION SPECIFICATIONS:**
- STONE SHALL BE MAXIMUM SIZE OF 12" WITH 50 TO 100 PERCENT BY WEIGHT LARGER THAN 8" AND TO 10 PERCENT SMALLER THAN 12"
 - FILTER FABRIC SHALL BE NON-WOVEN GEOTEXTILE FX-100HS AS MANUFACTURED BY CARTHAGE MILLS
 - STONE WILL BE PLACED ON A NONWOVEN GEOTEXTILE FOUNDATION AT LOCATIONS SHOWN ON THE PLAN.
 - 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.
 - EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
 - PROTECT THE CHANNEL, DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINERS AS APPROPRIATE.
 - 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: N.T.S.



CATCH BASIN (CONDITIONS OF HIGH GROUNDWATER)
SCALE: N.T.S.

- NOTES:**
- BACKFILL AROUND CATCH BASIN SHALL BE NYSDOT ITEM 4 TO BE COMPACTED IN MAX 6" LIFTS.
 - STEPS SHALL BE PROVIDED FOR ALL BASINS GREATER THAN FOUR FEET IN DEPTH.
 - ALL FILL BELOW BUILDINGS, PAVEMENT AREAS, SIDEWALKS, CURBS, ETC. SHALL BE WITH ITEM 4 (NYSDOT SPEC) FOR THE FULL DEPTH OF THE EXCAVATION. BACKFILL SHALL BE PLACED IN 8" MAXIMUM LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR TEST.
 - PRECAST CONCRETE BASIN SHALL BE H20 LOAD RATED AS MANUFACTURED BY WOODARDS CONCRETE PRODUCTS OR APPROVED EQUAL.
 - THE ENDS OF ALL PIPES SHALL BE CUT OFF FLUSH WITH THE INSIDE OF CATCH BASIN.

SOIL RESTORATION NOTES

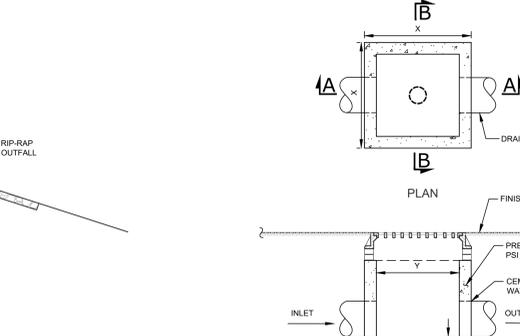
Type of Soil Disturbance	Soil Restoration Requirement	Comments / Examples
No Soil Disturbance	Restoration not permitted	Preservation of Natural Features
Minimal Soil Disturbance	Restoration not required	Clearing and Grubbing
Areas where topsoil is stripped only - NO change in grade.	HSG A & B Apply 6" of topsoil	Protect Areas from any ongoing construction activities.
Areas of cut or fill	HSG A & B Apply 6" of topsoil HSG C & D Apply 6" of topsoil	
Heavy traffic areas on site (especially in a zone 5'-25' around buildings, but not within the 5' perimeter around the foundation walls)	Apply full Soil Restoration** (de-compaction and compost enhancement)	
Areas where Runoff Reduction and/or Infiltration Practices are applied.	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices	Keep construction equipment from crossings these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area.
Areas where existing impervious area will be converted to pervious area	Soil restoration is required on redevelopment projects. Apply full Soil Restoration** (de-compaction and compost enhancement)	

EARTHWORK CONSTRUCTION NOTES

- ALL WORK TO BE PERFORMED TO THE SPECIFICATIONS OF THE TOWN OF WALKILL.
- ALL TOPSOIL, ROOTS, STUMPS AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM ALL CONSTRUCTION AREAS.
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 - ROCK-PICK UNTIL LIFTED STONE/ROCK MATERIALS OF FOUR INCHES AND LARGER SIZE ARE CLEANED OFF THE SITE.
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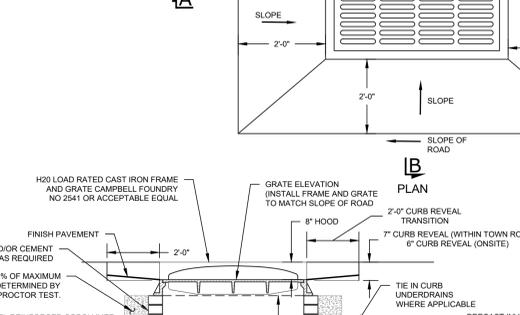
FILL SECTION IN AREAS OF CUT WITH NON-STABLE (YIELDING) SUBGRADE
SCALE: N.T.S.

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YARD DRAIN
SCALE: N.T.S.

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SOIL RESTORATION NOTES

Type of Soil Disturbance	Soil Restoration Requirement	Comments / Examples
No Soil Disturbance	Restoration not permitted	Preservation of Natural Features
Minimal Soil Disturbance	Restoration not required	Clearing and Grubbing
Areas where topsoil is stripped only - NO change in grade.	HSG A & B Apply 6" of topsoil	Protect Areas from any ongoing construction activities.
Areas of cut or fill	HSG A & B Apply 6" of topsoil HSG C & D Apply 6" of topsoil	
Heavy traffic areas on site (especially in a zone 5'-25' around buildings, but not within the 5' perimeter around the foundation walls)	Apply full Soil Restoration** (de-compaction and compost enhancement)	
Areas where Runoff Reduction and/or Infiltration Practices are applied.	Restoration not required, but may be applied to enhance the reduction specified for appropriate practices	Keep construction equipment from crossings these areas. To protect newly installed practice from any ongoing construction activities construct a single phase operation fence area.
Areas where existing impervious area will be converted to pervious area	Soil restoration is required on redevelopment projects. Apply full Soil Restoration** (de-compaction and compost enhancement)	

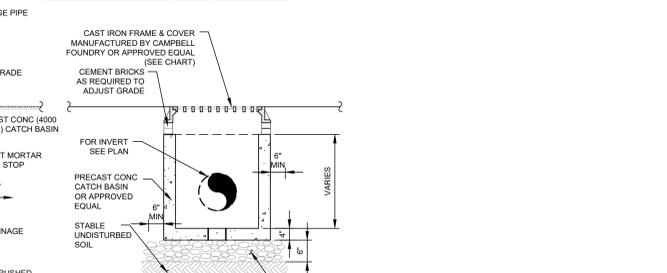
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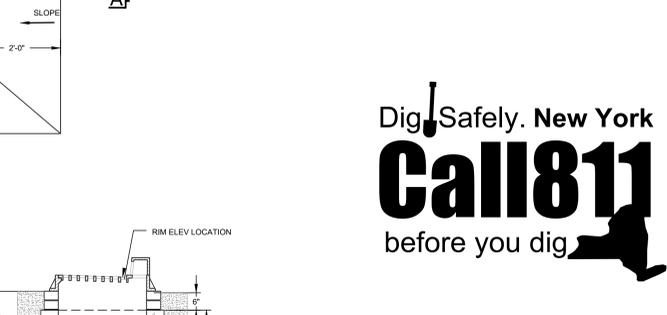
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YARD DRAIN	X (ft)	Y (ft)	GRATE #	SOIL #
12X12	20	12	3245	3230
18X18	26	18	3246	3231
24X24	32	24	3247	3232
30X30	42	30	3248	3233



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Dig Safely. New York
Call 811
before you dig

No.	DATE	DESCRIPTION
1	10/26/20	REVISED PER ENGINEER COMMENTS DATED 9/28/20
2	03/13/21	REVISED UNDERGROUND STORMWATER SYSTEM
3	02/12/21	REVISED FOR OGDON WATERMAIN EXTENSION
4	02/03/21	REVISED PER ENGINEER COMMENTS
5	02/12/21	ISSUED FOR FINAL APPROVAL
6	04/06/21	REVISED PER MHE(2/12) & OGDON(3/2) COMMENTS
7	04/13/21	REVISED PER MHE(4/9) COMMENTS
8	04/27/21	REVISED PER MHE PB WORKSHOP COMMENTS
9	06/14/21	FIELD CHANGE #1
10	07/14/21	REVISED EROSION CONTROL
11	09/01/21	FIELD CHANGE #2
12	09/15/21	FIELD CHANGE #3
13	09/23/21	REVISED PER TOWN COMMENTS
14	01/18/22	ADDED WINTER CONDITIONS TO E&S

DRAWING STATUS	ISSUE DATE	SHEET NUMBER
THIS SHEET IS PART OF THE PLAN SET ISSUED FOR	01/18/2022	13 OF 13
<input type="checkbox"/> CONCEPT APPROVAL	N/A	OF N/A
<input checked="" type="checkbox"/> PLANNING BOARD APPROVAL	13	OF 13
<input type="checkbox"/> OGDON REALTY SUBDIVISION APPROVAL	N/A	OF N/A
<input type="checkbox"/> OGDON WATERMAIN EXTENSION APPROVAL	N/A	OF 3
<input type="checkbox"/> NYSDEC APPROVAL	N/A	OF N/A
<input type="checkbox"/> NYSDOT APPROVAL	N/A	OF N/A
<input type="checkbox"/> OTHER	N/A	OF N/A
<input type="checkbox"/> FOR BID	N/A	OF N/A
<input type="checkbox"/> 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).

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JAY SAMUELSON, P.E.
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ENGINEERING PROPERTIES
Achieving Successful Results with Innovative Designs