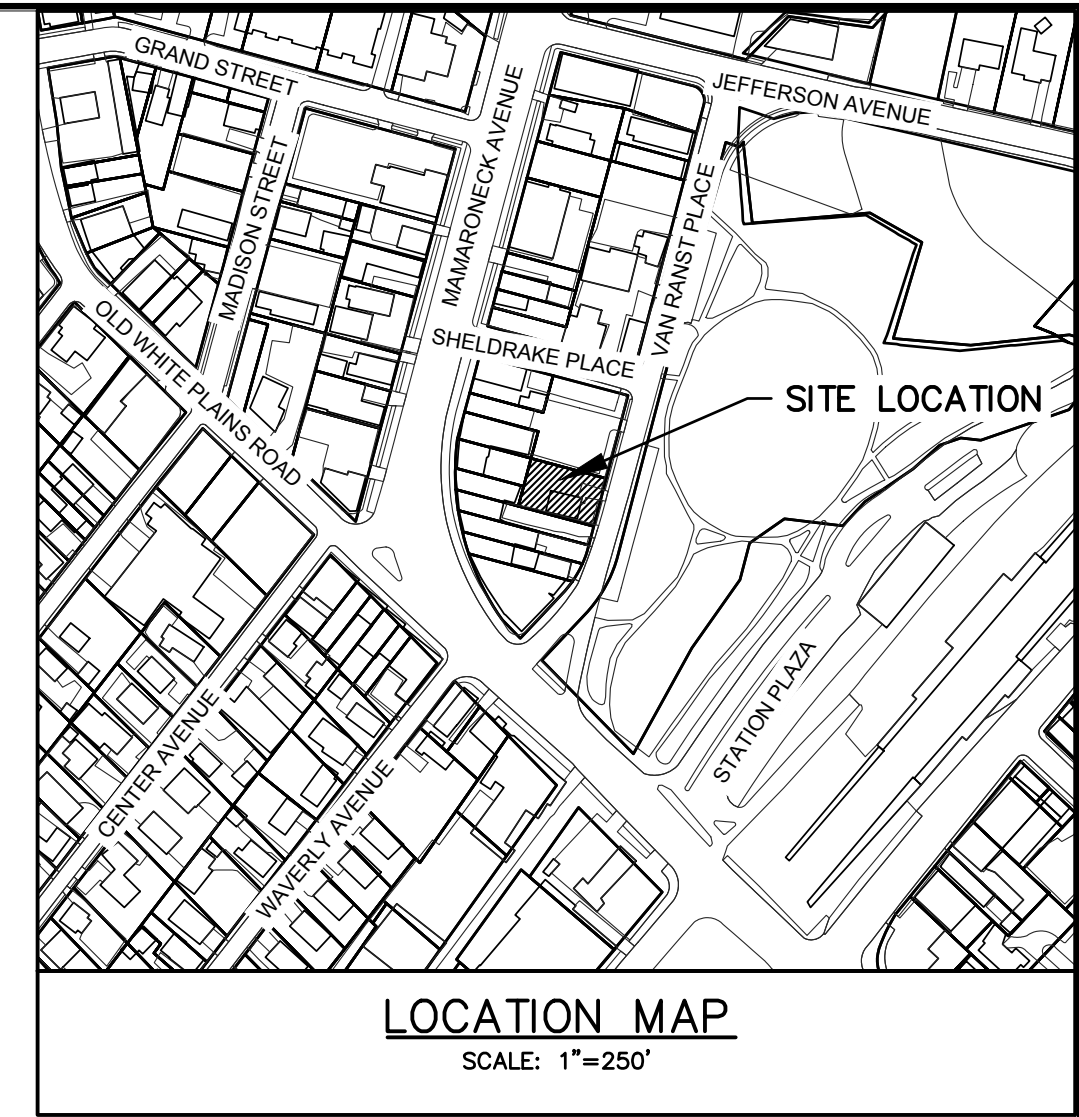


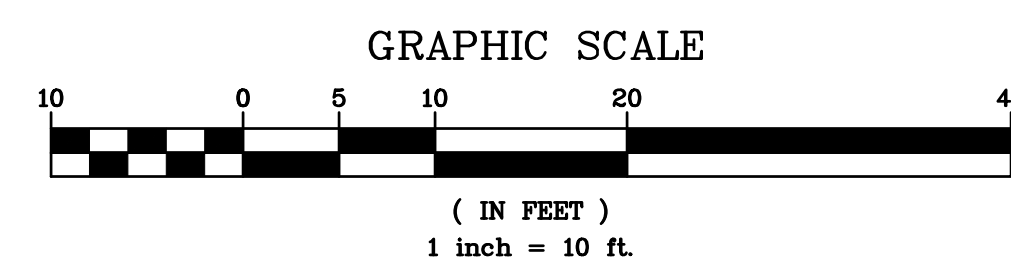
SHELDRAKE [40 FT. WIDE] PLACE



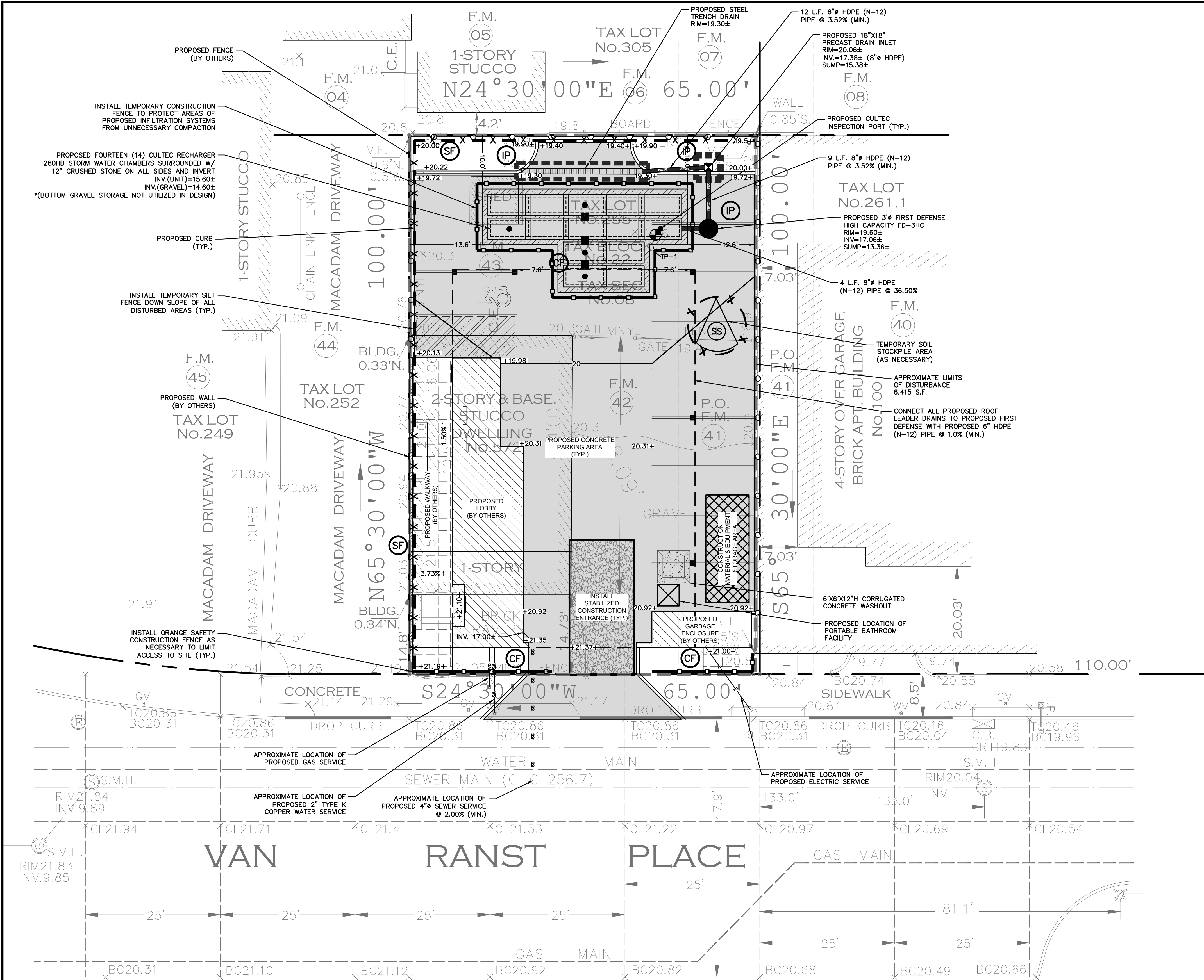
CONTRACTOR SHALL CONTACT DESIGN ENGINEER TO SCHEDULE A SITE INSPECTION PRIOR TO BACKFILLING INFILTRATION/ATTENUATION SYSTEM(S). SHOULD THE CONTRACTOR BACKFILL PRIOR TO INSPECTION, THE CONTRACTOR SHALL EXPOSE THE SYSTEM AT THEIR OWN EXPENSE.

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.

EXISTING INFORMATION SHOWN HEREON PROVIDED BY RAMSAY LAND SURVEYING P.C. DATED MARCH 15, 2021.



PROJECT:		PROPOSED 10-UNIT RES. MID RISE 572 VAN RANST PLACE SECTION: 8, BLOCK: 22, LOT: 255 VILLAGE OF MAMARONECK WESTCHESTER COUNTY - NEW YORK	
EXISTING CONDITIONS PLAN		Date: 09/01/21 Sheet: 1	
HEC		HUDSON ENGINEERING CONSULTING, P.C. 45 Knollwood Road - Suite 201 Elmsford, New York 10523 T: 914-909-0420 F: 914-560-2086	
THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE		State of New York MICHAEL F. STERN No. 00857 LICENSED PROFESSIONAL ENGINEER Date: 09/01/21 Sheet: 1 Designed By: S.G. Checked By: M.S. Sheet No. 5	
2		C-1	



SHELDRAKE [40 FT. WIDE] PLACE

LEGEND

PROPERTY LINE	---
PROPOSED BELGIAN BLOCK CURB	---
PROPOSED CONCRETE DRIVEWAY	---
PROPOSED WALKWAY/PATIO	---
PROPOSED CONTOUR	---
PROPOSED SPOT GRADE	+20.20
PROPOSED STORM PIPE	---
PROPOSED DRAIN INLET	IP
PROPOSED WATER SERVICE	WS
PROPOSED ELECTRICAL SERVICE	E
PROPOSED SANITARY SEWER SERVICE	SS
TEMPORARY INLET PROTECTION	IP
TEMPORARY SILT FENCE	X-X-SF
TEMPORARY CONSTRUCTION FENCE	CF
TEMPORARY SOIL STOCKPILE AREA	SS
STABILIZED CONSTRUCTION ENTRANCE	---
TEST PIT LOCATION	TP-1
PROPOSED LIMIT OF DISTURBANCE	---

INSTALLATION & MAINTENANCE OF EROSION CONTROL:

CONSTRUCTION SCHEDULE
NOTIFY APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 5 DAYS PRIOR TO START.

EROSION CONTROL MEASURES
INSTALL ALL EROSION CONTROL MEASURES PRIOR TO START OF CONSTRUCTION. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY
MAINTENANCE (TO BE PERFORMED DURING ALL PHASES OF CONSTRUCTION)

AFTER ANY RAIN CAUSING RUNOFF, CONTRACTOR TO INSPECT HAYBALES, ETC. AND REMOVE ANY EXCESSIVE SEDIMENT AND INSPECT STOCKPILES AND CORRECT ANY PROBLEMS WITH SEED ESTABLISHMENT.
INSPECTIONS SHALL BE DOCUMENTED IN WRITING AND SUBMITTED TO THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION.

INSPECTION BY MUNICIPALITY - FINAL GRADING
REMOVE UNNEEDED SUBGRADE FROM SITE.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - LANDSCAPING

SPREAD TOPSOIL EVENLY OVER AREAS TO BE SEED. HAND RAKE LEVEL. BROADCAST 1.25 LB. BAG OF JONATHAN GREEN "FASTGROW" MIX OR EQUAL OVER AREA TO BE SEED. APPLY STRAW MULCH AND WATER WITHIN 2 DAYS OF COMPLETION. CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - FINAL LANDSCAPING

GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

INSPECTION BY MUNICIPALITY - FINAL INSPECTION
ALL EROSION CONTROL MEASURES REMOVED AND GRASS ESTABLISHED.
CALL FOR INSPECTION FROM THE APPROPRIATE MUNICIPAL AGENCY HAVING JURISDICTION AT LEAST 2 DAYS PRIOR TO FINISH.

CONSTRUCTION SEQUENCING:

THE FOLLOWING EROSION CONTROL SCHEDULE SHALL BE UTILIZED:

1. ESTABLISH CONSTRUCTION STAGING AREA.
2. INSTALL TREE PROTECTION ON TREES AS NOTED ON PLANS.
3. SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION.
4. INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AS SHOWN ON THE PLAN.
5. REMOVE TREES WHERE NECESSARY (CLEAR & GRUB) FOR THE PROPOSED CONSTRUCTION.
6. STRIP TOPSOIL AND STOCKPILE AT THE LOCATIONS SPECIFIED ON THE PLANS (UP GRADIENT OF EROSION CONTROL MEASURES). TEMPORARILY STABILIZE TOPSOIL STOCKPILES (HYDROSEED DURING MAY 1ST THROUGH OCTOBER 31ST PLANTING SEASON OR BY COVERING WITH A TARPULIN(S) NOVEMBER 1ST THROUGH APRIL 30TH. INSTALL SILT FENCE AROUND TOE OF SLOPE.
7. DEMOLISH ANY EXISTING SITE FEATURES AND/OR STRUCTURES NOTED AS BEING REMOVED ON THE CONSTRUCTION DOCUMENTS AND DISPOSE OF OFF-SITE.
8. ROUGH GRADE SITE.
9. INSTALL ADDITIONAL SILT FENCING AS NECESSARY.
10. INSTALL CATCH BASINS AND TRENCH DRAINS AS WELL AS ALL ASSOCIATED ONSITE PIPING.
11. CONSTRUCT SUBSURFACE EXFILTRATION CHAMBERS.
12. EXCAVATE AND CONSTRUCT POOL AND PATIO. INSTALL DRAINAGE STRUCTURES ALONG PATIO PERIMETER.
13. CONNECT DRAINAGE STRUCTURES TO PROPOSED SUBSURFACE EXFILTRATION CHAMBERS.
14. FINE GRADE AND SEED ALL DISTURBED AREAS. SPREAD SALT HAY OVER SEEDED AREAS.
15. CLEAN DRAIN LINES, CATCH BASINS, CHANNEL DRAINS AND SUBSURFACE EXFILTRATION CHAMBERS.
16. REMOVE ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES AFTER SITE HAS ACHIEVED FINAL STABILIZATION (80% UNIFORM DENSITY OF PERMANENT VEGETATION OR PERMANENT MULCH/STONE).

* SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR WEEKLY AND PRIOR TO AND AFTER EVERY 1/2" OR GREATER RAINFALL EVENT.

CONSTRUCTION PHASE:

DURING THE CONSTRUCTION PHASE OF THE PROJECT, A SEDIMENT AND EROSION CONTROL PLAN SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S BEST MANAGEMENT PRACTICES (BMP). THE PRIMARY GOALS OF THE SEDIMENT AND EROSION CONTROL PLAN ARE TO PREVENT THE TRACKING OF DIRT AND MUD ONTO ADJACENT ROADS, TO PREVENT MUD AND SILT FROM ENTERING INTO EXISTING AND PROPOSED DRAINAGE FACILITIES, AND TO PROTECT THE RECEIVING WATERS FROM CONTAMINATION DURING THE CONSTRUCTION.

DURING CONSTRUCTION, THE PARTY RESPONSIBLE FOR IMPLEMENTING THE TEMPORARY (DURING CONSTRUCTION) STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM WILL BE THE OWNER. THE NAME AND CONTACT INFORMATION WILL BE FILED WITH THE VILLAGE OF MAMARONECK AND THE NYSDEC AT THE TIME OF THE PRECONSTRUCTION MEETING.

A NEW YORK STATE PROFESSIONAL ENGINEER OR CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (P.E. OR CPESC) SHALL CONDUCT AN ASSESSMENT OF THE COMMENCEMENT OF CONSTRUCTION OF THE SITE AND CERTIFY IN AN INSPECTION REPORT THAT THE APPROPRIATE EROSION AND SEDIMENT CONTROLS SHOWN ON THE PLAN HAVE BEEN ADEQUATELY INSTALLED AND/OR IMPLEMENTED TO ENSURE OVERALL PREPAREDNESS OF THE SITE FOR CONSTRUCTION. FOLLOWING THE COMMENCEMENT OF CONSTRUCTION, SITE INSPECTIONS SHALL BE CONDUCTED BY THE P.E. OR CPESC AT LEAST EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.

DURING EACH INSPECTION, THE REPRESENTATIVE SHALL RECORD THE FOLLOWING:

1. ON A SITE MAP, INDICATE THE EXTENT OF ALL DISTURBED SITE AREAS AND DRAINAGE PATHWAYS. INDICATE SITE AREAS THAT ARE EXPECTED TO UNDERGO INITIAL DISTURBANCE OR SIGNIFICANT SITE WORK WITHIN THE NEXT 14-DAY PERIOD;
2. INDICATE ON A SITE MAP ALL AREAS OF THE SITE THAT HAVE UNDERGONE TEMPORARY OR PERMANENT STABILIZATION;
3. INDICATE ALL DISTURBED SITE AREAS THAT HAVE NOT UNDERGONE ACTIVE SITE WORK DURING THE PREVIOUS 14-DAY PERIOD;
4. INSPECT ALL SEDIMENT CONTROL PRACTICES AND RECORD APPROXIMATE DEGREE OF SEDIMENT ACCUMULATION AS A PERCENTAGE OF THE SEDIMENT STORAGE VOLUME;
5. INSPECT ALL EROSION AND SEDIMENT CONTROL PRACTICES AND RECORD ALL MAINTENANCE REQUIREMENTS. IDENTIFY ANY EVIDENCE OF RILL OR GULLY EROSION OCCURRING ON SLOPES AND ANY LOSS OF STABILIZING VEGETATION OR SEEDING/MULCHING. DOCUMENT ANY EXCESSIVE DEPOSITION OF SEDIMENT OR PONDING WATER ALONG THE BARRIER. RECORD THE DEPTH OF SEDIMENT WITHIN CONTAINMENT STRUCTURES AND ANY EROSION NEAR OR OUTLET AND OVERFLOW STRUCTURES.
6. ALL IDENTIFIED DEFICIENCIES

THE P.E. OR CPESC SHALL MAINTAIN A RECORD OF ALL INSPECTION REPORTS IN A SITE LOGBOOK. THE SITE LOGBOOK SHALL BE MAINTAINED ON-SITE AND BE MADE AVAILABLE TO THE VILLAGE OF BRIARCLIFF MANOR AND THE NYSDEC. A SUMMARY OF THE SITE INSPECTION ACTIVITIES SHALL BE POSTED ON A MONTHLY BASIS IN A PUBLICLY ACCESSIBLE LOCATION AT THE SITE.

THE PROJECTS ANTICIPATED START DATE IS SUMMER OF 2022 AND THE ANTICIPATED COMPLETION DATE IS ESTIMATED TO OCCUR IN FALL OF 2023.

TEST HOLE DATA:

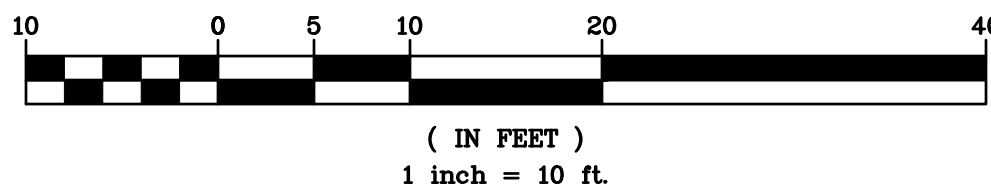
TEST HOLE #1
DEPTH = 90"
0-10" TOPSOIL
10-47" BROWN LOAM
47-65" GRAY SANDY CLAY
65-90" GRAY SAND
GROUNDWATER @ 84"
NO LEDGE ROCK
PERC. = 30" INCHES/HOUR
*(28 INCHES/HOUR WAS UTILIZED)

NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, DATED NOVEMBER 2016.
2. SOIL RESTORATION AT THE COMPLETION OF CONSTRUCTION SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE SOIL RESTORATION SPECIFIED IN CHAPTER 5 OF THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION STORMWATER MANAGEMENT DESIGN MANUAL FOR THE RESTORATION OF SURFACES.
3. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CANNOT BE REMOVED UNTIL SITE STABILIZATION (80% UNIFORM DENSITY OF PERMANENT VEGETATION OF PERMANENT MULCH/STONE) HAS BEEN ACHIEVED.
4. ANY IMPORTED SOIL SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR QUALITY AND RESIDENTIAL PURPOSES.
5. THE APPLICANT SHALL PROVIDE AN AS-BUILT PLAN OF THE STORMWATER MANAGEMENT SYSTEM (FOR ALL STORMWATER FEATURES INCLUDING BUT NOT LIMITED TO LOCATIONS OF STORMWATER INFRASTRUCTURE, INVERT/RIM ELEVATIONS, PIPE LOCATIONS AND SIZES, FINAL GRADING, ETC.) CERTIFIED BY THE ENGINEER ON RECORD, PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY. THE AS-BUILT PLAN SHALL ALSO INCLUDE THE FINAL MAINTENANCE SCHEDULE FOR THE MANAGEMENT FEATURES.

EXISTING INFORMATION SHOWN HEREON
PROVIDED BY RAMSAY LAND SURVEYING
P.C. DATED MARCH 15, 2021.

GRAPHIC SCALE



Cut/Fill Summary

Name	2d Area	Cut	Fill	Net
Totals	6425.02 Sq. Ft.	41.40 Cu. Yd.	33.14 Cu. Yd.	8.25 Cu. Yd.<Cut>

CONTRACTOR SHALL CONTACT DESIGN ENGINEER TO SCHEDULE A SITE INSPECTION PRIOR TO BACKFILLING INFILTRATION/ATTENUATION SYSTEM(S). SHOULD THE CONTRACTOR BACKFILL PRIOR TO INSPECTION, THE CONTRACTOR SHALL EXPOSE THE SYSTEM AT THEIR OWN EXPENSE.

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02/16/22	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS
02/17/22	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS
02/17/22	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS	REVISED PER PLANNING COMMENTS

PROJECT:
PROPOSED 10-UNIT RES. MID RISE
572 VAN RANST PLACE
SECTION: 8, BLOCK: 22, LOT: 255
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY - NEW YORK

STORMWATER MANAGEMENT PLAN

HUDSON

ENGINEERING

CONSULTING, P.C.

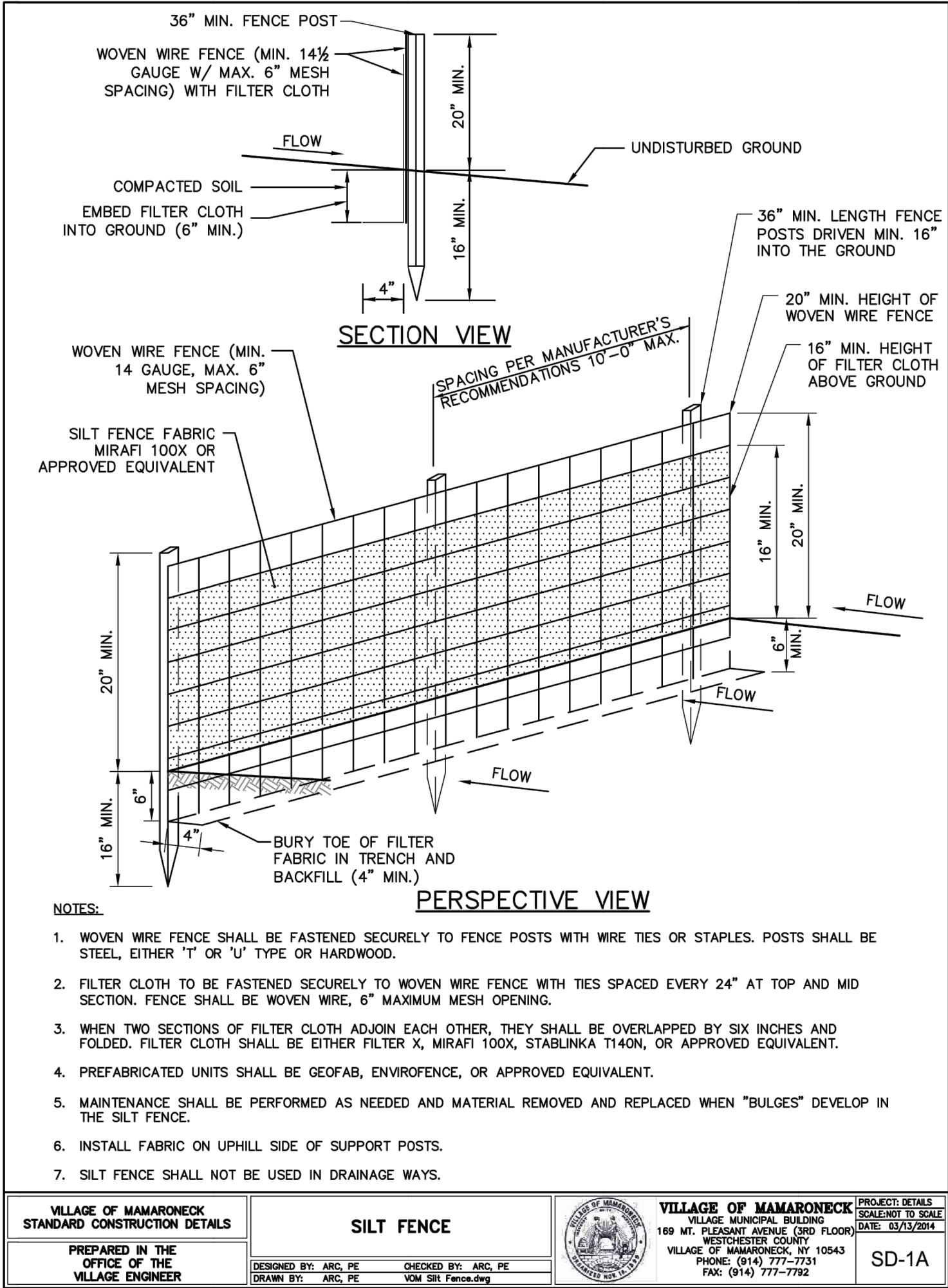
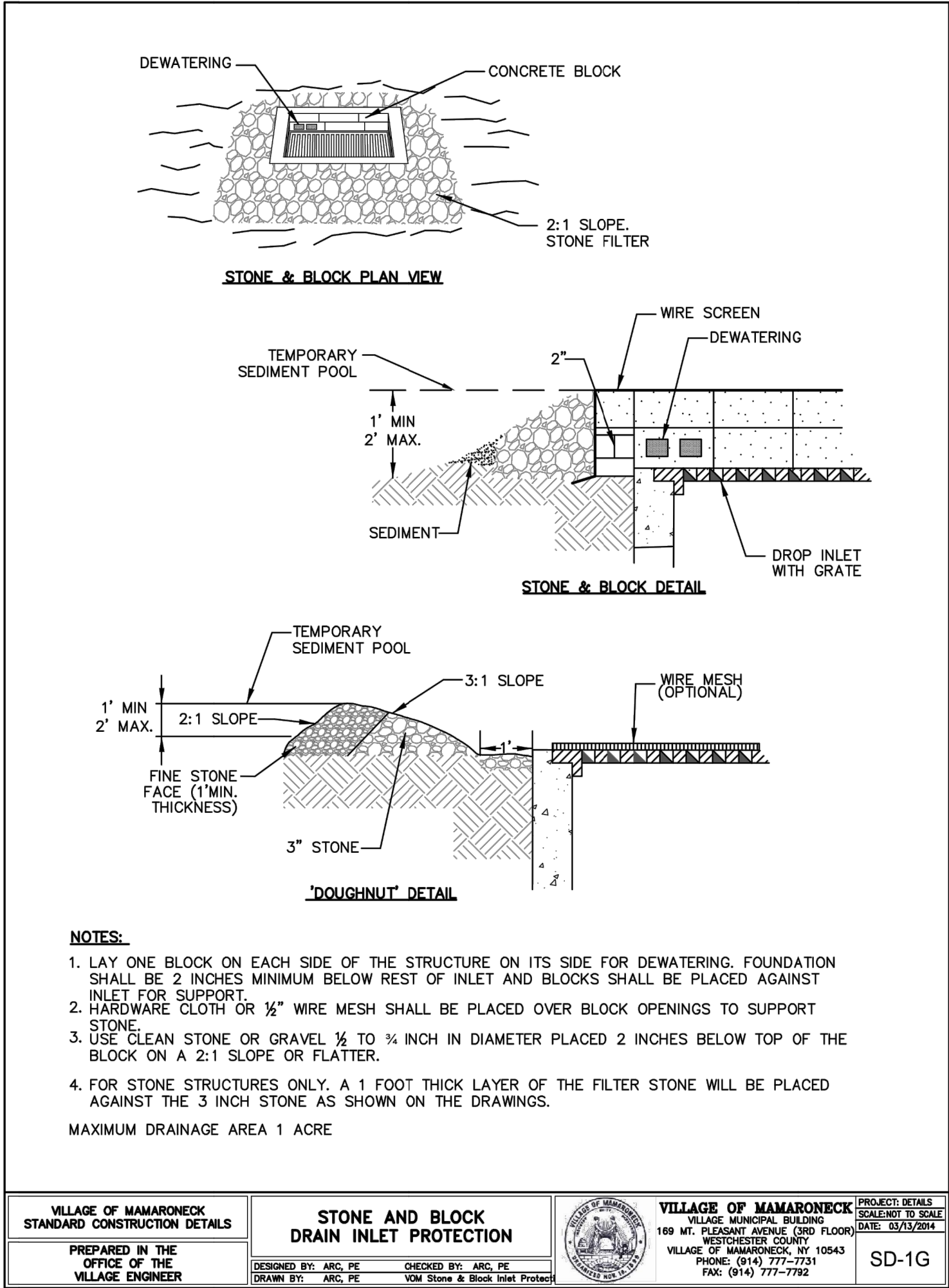
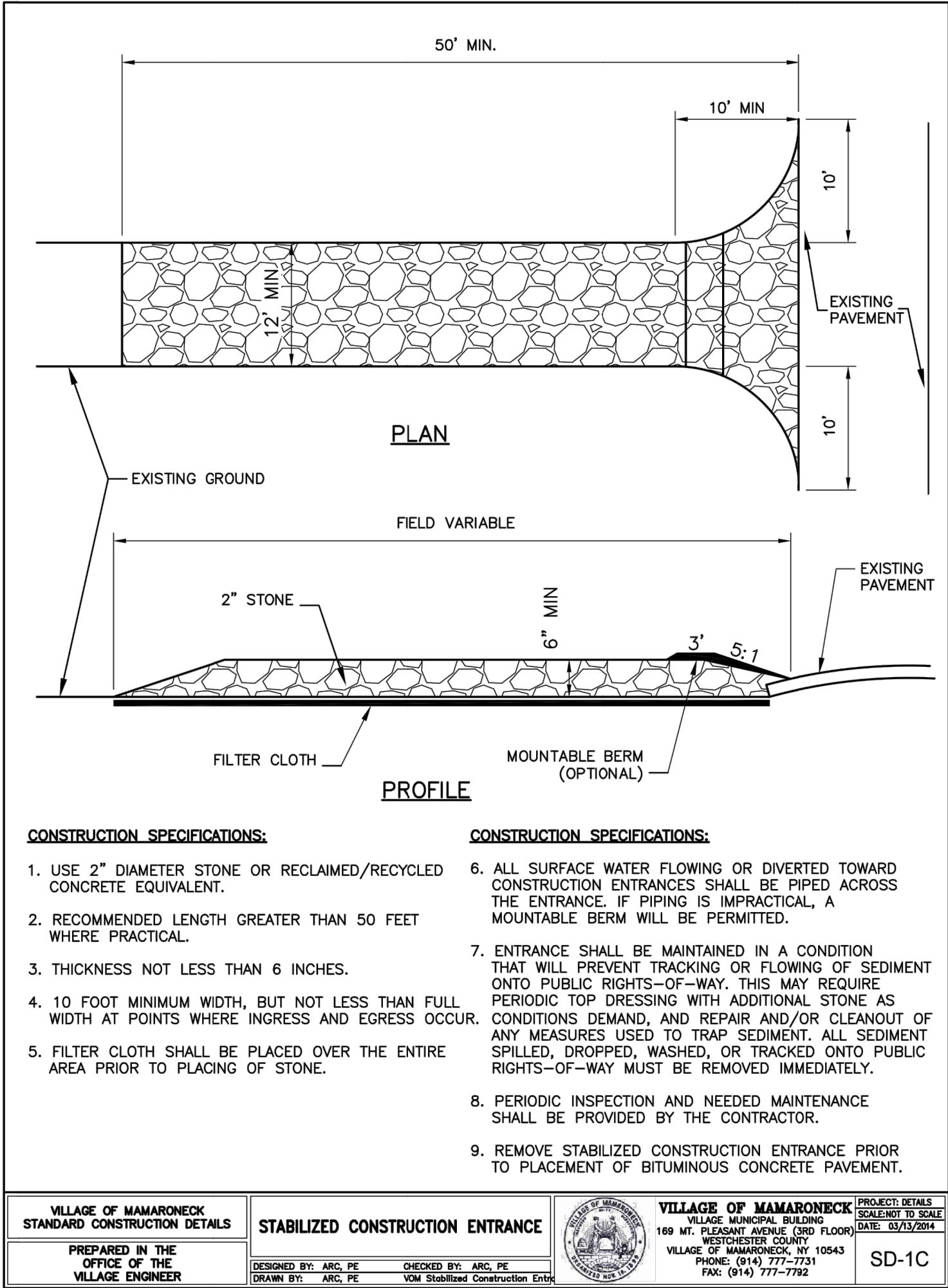
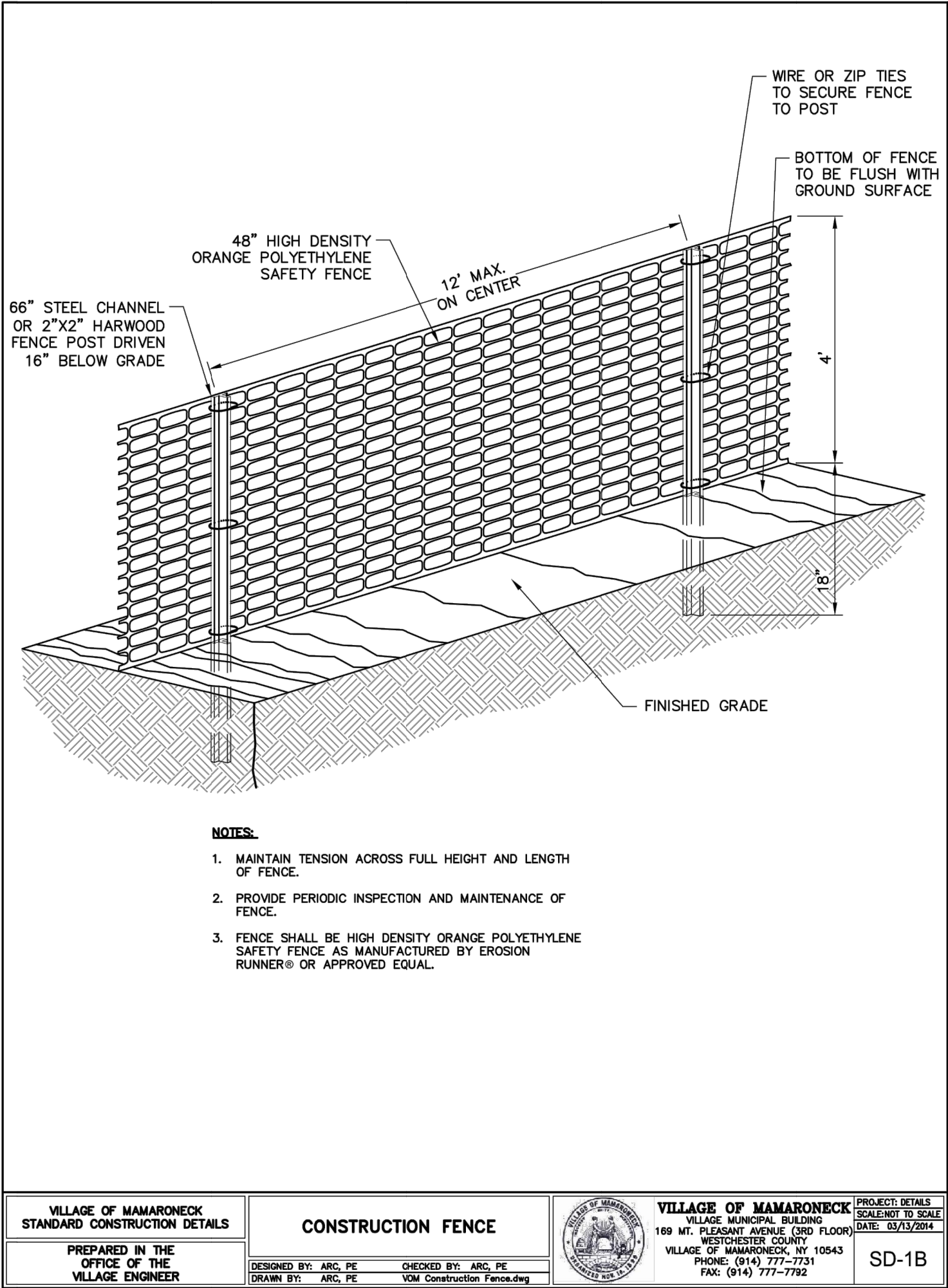
45 Knollwood Road - Suite 201
Elmsford, New York 10523

T: 914-909-0420
F: 914-560-2086



Date: 09/01/21 Sheet: 2
Scale: 1" = 10'
Designed By: S.G.
Checked By: M.S.
Sheet No.

C-2

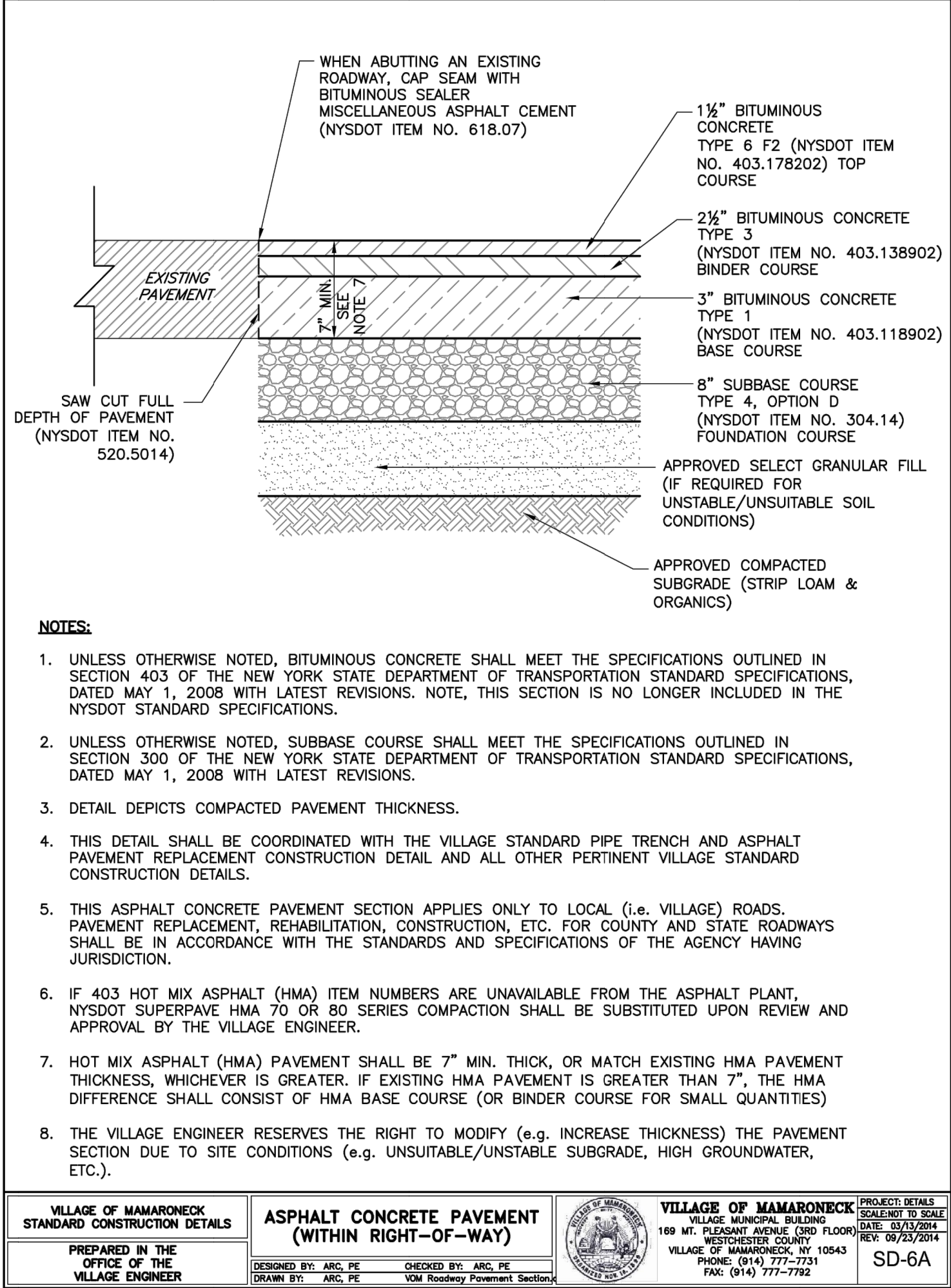


NOTES:

1. ALL SOIL STOCKPILES SHALL BE A MINIMUM OF 5' FROM ALL ADJACENT PROPERTIES.
2. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH CHAPTER 5 SOIL RESTORATION STANDARDS AS OUTLINED IN THE NYSDEC STORMWATER MANAGEMENT DESIGN MANUAL.
3. ALL DISTURBED SOILS SHALL RECEIVE TEMPORARY STABILIZATION/FINAL RESTORATION WHEN NO FURTHER DISTURBANCE IS PLANNED WITHIN 14 DAYS.
4. EXACT LOCATION OF ALL UTILITIES TO BE VERIFIED IN THE FIELD BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
5. EXISTING STRUCTURES INTENDED TO BE DEMOLISHED SHALL BE EVALUATED FOR THE PRESENCE OF HAZARDOUS MATERIALS. HANDLING AND DISPOSAL OF REGULATED MATERIALS SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL LOCATE ALL BURIED UTILITIES TO ENSURE THAT NO INTERFERENCE EXISTS DURING CONSTRUCTION ACTIVITIES.
7. ANY IMPORTED SOIL SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS FOR QUALITY AND USE.
8. OFF-SITE DISPOSAL OF EXCESS CUT SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS.
9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL CONFORM TO THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL DATED NOVEMBER 2016.
10. THE APPLICANT SHALL PROVIDE AN AS-BUILT PLAN OF THE STORMWATER MANAGEMENT SYSTEM (FOR ALL STORM FEATURES INCLUDING, BUT NOT LIMITED TO, LOCATIONS OF STORMWATER INFRASTRUCTURE, INVERT/RIM ELEVATIONS, PIPE LOCATIONS AND SIZES, FINAL GRADING, ETC.) CERTIFIED BY THE ENGINEER ON RECORD, PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
11. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES CANNOT BE REMOVED UNTIL SITE STABILIZATION (80% UNIFORM DENSITY OF PERMANENT VEGETATION OR PERMANENT MULCH/STONE) HAS BEEN ACHIEVED.
12. ALL EXISTING TREES SHALL BE PROTECTED WITH A MINIMUM OF 6-INCHES OF WOOD CHIPS OR MULCHING IN AREAS PRONE TO COMPACTION DUE TO CONSTRUCTION ACTIVITIES.
13. TEMPORARY PROTECTION PLATES OR ALTERNATIVE PROTECTIVE MEASURES SHALL BE INSTALLED OVER THE EXISTING SIDEWALK AND CURB.
14. PEDESTRIAN ACCESS ACROSS THE EXISTING SIDEWALK MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.

GENERAL NOTES:

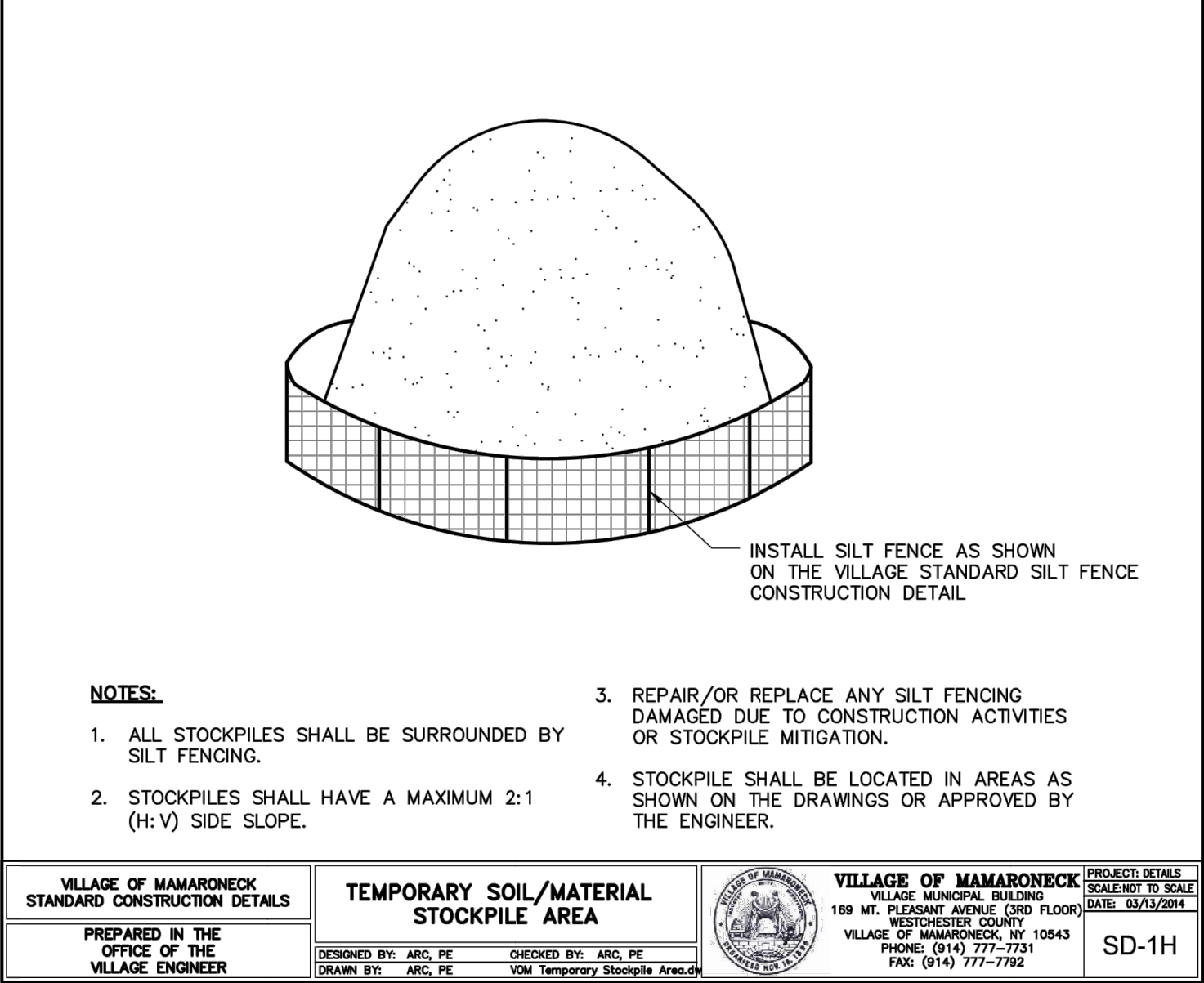
1. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE SUPERVISION OF THE CONSTRUCTION.
2. NO CHANGES SHALL BE MADE TO THESE PLANS EXCEPT AS PER NYS LAW CHAPTER 987.
3. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING BUT NOT LIMITED TO A.C.I., A.S.C., ZONING, AND THE NEW YORK STATE BUILDING CODE.
4. ALL CONDITIONS, LOCATIONS AND DIMENSIONS SHALL BE FIELD VERIFIED AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED OF ANY DISCREPANCIES.
5. ALL CHANGES MADE TO THE PLANS SHALL BE APPROVED BY THE ENGINEER AND ANY SUCH CHANGES SHALL BE FILED AS AMENDMENTS TO THE ORIGINAL BUILDING PERMIT.
6. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR THE ACTS AND OMISSIONS OF HIS EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING ANY OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.
8. SAFETY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO ALL LOCAL, STATE AND FEDERAL AGENCIES IN EFFECT DURING THE PERIOD OF CONSTRUCTION.
9. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL MAKE APPLICATION TO RECEIVE ALL NECESSARY PERMITS TO PERFORM THE WORK UNDER CONTRACT. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL BE LICENSED TO DO ALL WORK AS REQUIRED BY THE LOCAL, COUNTY, AND STATE AGENCIES WHICH MAY HAVE JURISDICTION OVER THOSE TRADES, AND SHALL PRESENT THE OWNER WITH COPIES OF ALL LICENSES AND INSURANCE CERTIFICATES.
10. FINAL GRADING AROUND THE BUILDING AREA SHALL SLOPE AWAY FROM THE STRUCTURE.
11. ALL WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER ANY SCALED DIMENSIONS.
12. ADJOINING PUBLIC AND PRIVATE PROPERTY SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, REMODELING AND DEMOLITION WORK. PROTECTION MUST BE PROVIDED FOR FOOTINGS, FOUNDATIONS, PARTY WALLS, CHIMNEYS, SKYLIGHTS AND ROOFS. PROVISIONS SHALL BE MADE TO CONTROL WATER RUNOFF AND EROSION DURING CONSTRUCTION OR DEMOLITION ACTIVITIES. THE PERSON MAKING OR CAUSING AN EXCAVATION TO BE MADE SHALL PROVIDE WRITTEN NOTICE TO THE OWNERS OF ADJOINING BUILDINGS ADVISING THEM THAT THE EXCAVATION IS TO BE MADE AND THAT THE ADJOINING BUILDING SHOULD BE PROTECTED. SAID NOTIFICATION SHALL BE DELIVERED NOT LESS THAN 10 DAYS PRIOR TO THE SCHEDULED STARTING DATE OF THE EXCAVATION.
13. OWNER SHALL INSURE THAT THE INSURANCE PROVIDED BY THE CONTRACTOR HIRED TO PERFORM THE WORK SHALL BE ENDORSED TO NAME HUDSON ENGINEERING & CONSULTING, P.C., AND ANY DIRECTORS, OFFICERS, EMPLOYEES, SUBSIDIARIES, AND AFFILIATES, AS ADDITIONAL INSURED ON ALL POLICIES AND HOLD HARMLESS DOCUMENTS, AND SHALL STIPULATE THAT THIS INSURANCE IS PRIMARY, AND THAT ANY OTHER INSURANCE OR SELF-INSURANCE MAINTAINED BY HUDSON ENGINEERING & CONSULTING, P.C., SHALL BE EXCESS ONLY AND SHALL NOT BE CALLED UPON TO CONTRIBUTE WITH THIS INSURANCE. ISO ADDITIONAL INSURED ENDORSEMENT FORM NUMBER CG2010 1185 UNDER GL. COPIES OF THE INSURANCE POLICIES SHALL BE SUBMITTED TO HUDSON ENGINEERING & CONSULTING, P.C., FOR APPROVAL PRIOR TO THE SIGNING OF THE CONTRACT.
14. INDUSTRIAL CODE RULE 753: THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS PRIOR TO THE START OF HIS OPERATIONS AND SHALL COMPLY WITH ALL THE LATEST INDUSTRIAL CODE RULE 753 REGULATIONS.



STORMWATER MANAGEMENT FACILITIES MAINTENANCE PROGRAM

MEASURE	DATES FOR INSPECTION	TIMING, ACTIVITY, AND LOCATION
GENERAL MAINTENANCE (STORM SEWER, CATCH BASINS/ DRAIN INLETS, MANHOLES, PRE-TREATMENT DEVICE AND ATTENUATION GALLERY)	ALL	ALL STORMWATER FACILITIES SHALL BE INSPECTED IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION, AND THEN MONTHLY FOR THE FIRST THREE (3) MONTHS FOLLOWING THE COMPLETION OF THE PROJECT. WITHIN THE FIRST THREE (3) MONTHS, INSPECTIONS SHALL IMMEDIATELY BE PERFORMED FOLLOWING A LARGE STORM EVENT (I.E. PRODUCING 1/2" (ONE-HALF INCH) OF RAIN OR GREATER. THEREAFTER, THESE FACILITIES SHALL BE INSPECTED AS DESCRIBED AS FOLLOWS. UPON INSPECTION, FACILITIES SHALL BE IMMEDIATELY MAINTAINED AND/OR CLEANED AS MAY BE REQUIRED. ANY SITE AREAS EXHIBITING SOIL EROSION OF ANY KIND SHALL BE IMMEDIATELY RESTORED AND STABILIZED WITH VEGETATION, MULCH OR STONE, DEPENDING ON THE AREA TO BE STABILIZED. UPON EACH INSPECTION, ALL VISIBLE DEBRIS INCLUDING, BUT NOT LIMITED TO, TWIGS, LEAF AND FOREST LITTER SHALL BE REMOVED FROM THE BASIN, OVERFLOW DISCHARGE POINTS AND FRAMES AND GRATES OF DRAINAGE STRUCTURES.
SUMPS - CATCH BASIN/RAIN INLETS AND DRAIN MANHOLES	UPON COMPLETION OF CONSTRUCTION: -ONCE A MONTH FOR THE FIRST THREE (3) MONTHS AFTER FIRST THREE (3) MONTHS: -EVERY FOUR (4) MONTHS THEREAFTER	ALL CATCH BASIN/RAIN INLETS AND DRAIN MANHOLES WITH SUMPS HAVE BEEN DESIGNED TO TRAP SEDIMENT PRIOR TO ITS TRANSPORT TO THE INFILTRATION PRACTICE AND, ULTIMATELY, DOWNSTREAM. THESE SUMPS WILL REQUIRE PERIODIC INSPECTION AND MAINTENANCE TO ENSURE THAT ADEQUATE DEPTH IS MAINTAINED WITHIN THE SUMPS. THE OWNER, OR THEIR DULY AUTHORIZED REPRESENTATIVE, SHALL TAKE MEASUREMENTS OF THE SUMP DEPTH. IF SEDIMENT HAS ACCUMULATED TO 1/2 (ONE-HALF) THE DEPTH OF THE SUMP, ALL SEDIMENT SHALL BE REMOVED FROM THE SUMP. SEDIMENTS CAN BE REMOVED WITH HAND-LABOR OR WITH A VACUUM TRUCK. THE USE OF ROAD SALT SHALL BE MINIMIZED FOR MAINTENANCE OF ROADWAY AND DRIVEWAY AREAS.
BAYFILTER	UPON COMPLETION OF CONSTRUCTION: -ONCE WITHIN THE FIRST SIX (6) MONTHS AFTER FIRST SIX (6) MONTHS: -EVERY TWO (2) YEARS THEREAFTER	THE BAYFILTER SYSTEM REQUIRES PERIODIC MAINTENANCE TO CONTINUE OPERATION AT ITS PEAK EFFICIENCY DESIGN. THE MAINTENANCE PROCESS COMPRISES THE REMOVAL AND REPLACEMENT OF EACH BAYFILTER CARTRIDGE AND THE CLEANING OF THE VAULT OR MANHOLE WITH A VACUUM TRUCK. FOR BEST RESULTS, BAYFILTER MAINTENANCE SHOULD BE PERFORMED BY A CERTIFIED MAINTENANCE CONTRACTOR. A QUICK CALL TO AN ADS ENGINEER OR CUSTOMER SERVICE REPRESENTATIVE WILL PROVIDE YOU WITH A LIST OF RELIABLE CONTRACTORS IN YOUR AREA. WHEN BAYFILTER EXHIBITS FLOWS BELOW DESIGN LEVELS, THE SYSTEM SHOULD BE INSPECTED AND MAINTAINED AS SOON AS PRACTICAL. REPLACING A BAYFILTER CARTRIDGE SHOULD BE CONSIDERED AT OR ABOVE THE LEVEL OF THE MANIFOLD.
SUBSURFACE ATTENUATION GALLERY	UPON COMPLETION OF CONSTRUCTION: -IMMEDIATELY AFTER CONSTRUCTION -EVERY SIX (6) MONTHS THEREAFTER (SPRING & FALL)	GALLERY SHALL BE INSPECTED FOR EXCESS SEDIMENT ACCUMULATION. DURING DRY WEATHER CONDITIONS, WHEN SEDIMENT HAS ACCUMULATED TO AN AVERAGE DEPTH EXCEEDING 3" (THREE INCHES), THE GALLERY SHALL BE WATER JETTED CLEAN, AND ALL ACCUMULATED SEDIMENTS SHALL BE VACUUMED OUT OR REMOVED MANUALLY. A STADIA ROD MAY BE INSERTED TO DETERMINE THE DEPTH OF THE SEDIMENT.

ANY ALTERATIONS OR REVISIONS OF THESE PLANS, UNLESS DONE BY OR UNDER THE DIRECTION OF THE NYS LICENSED AND REGISTERED ENGINEER THAT PREPARED THEM, IS A VIOLATION OF THE NYS EDUCATION LAW.



PROJECT: PROPOSED 10-UNIT RES. MID RISE
572 VAN RANST PLACE
SECTION: 8, BLOCK: 22, LOT: 255
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY - NEW YORK

DETAILS


HEC

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F: 914-560-2086
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Date: 09/01/21 Sheet: 3
Scale: N.T.S.
Designed By: S.G.
Checked By: M.S.
Sheet No. 5

C-3

FIRST DEFENSE® HIGH CAPACITY DESIGN SUMMARY



PROJECT INFORMATION

Reference

Site

Designer

Date

572 Van Ranst

Shea Graham

8/23/2021 8:37 PM

DESIGN INPUTS

Regulatory Agency

Water Quality Flow Rate (cfs)

NYSDEC, NY

0.22

DESIGN OUTPUTS

Product

Unit Reference

* Approved for use in NYSDEC, NY

3-ft DIAMETER FIRST DEFENSE HIGH CAPACITY

FD-3HC

UNIT WEIGHTS AND DIMENSIONS

A Unit Size (ft)

B Inlet Pipe Size (in)

D Outlet Pipe Size (in)

F Unit Depth (ft)

Inlet Invert Height (ft)

Outlet Invert Height (ft)

3.00

18

18

6.24

3.70

3.70

PERFORMANCE AND HYDRAULICS

Max. Treatment Flow-Rate (cfs)

Hydraulic Capacity Flow-Rate (cfs)

Typical Operating Headloss (in)

Maximum Headloss (in)

0.84

15

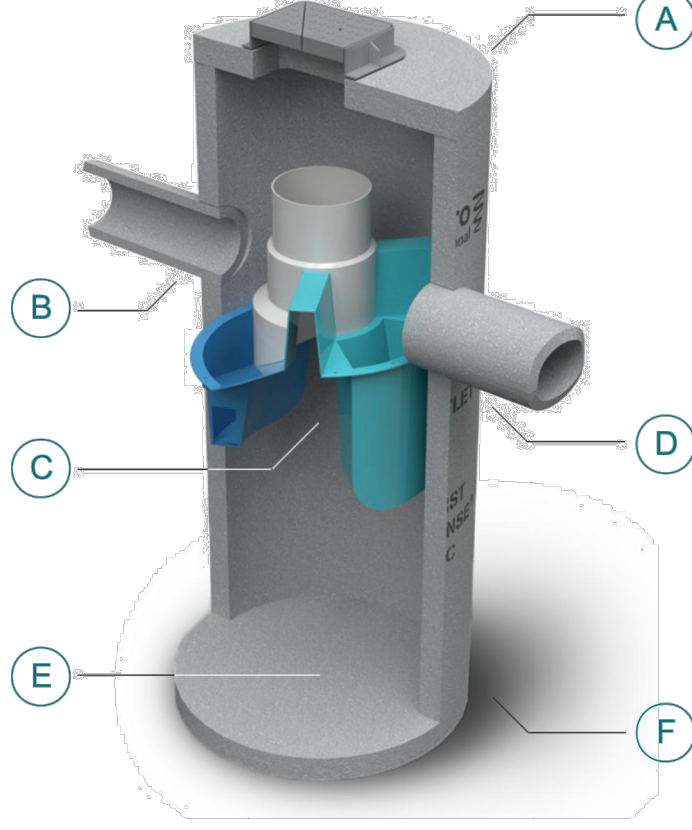
STORAGE

C Oil Storage Capacity (gal)

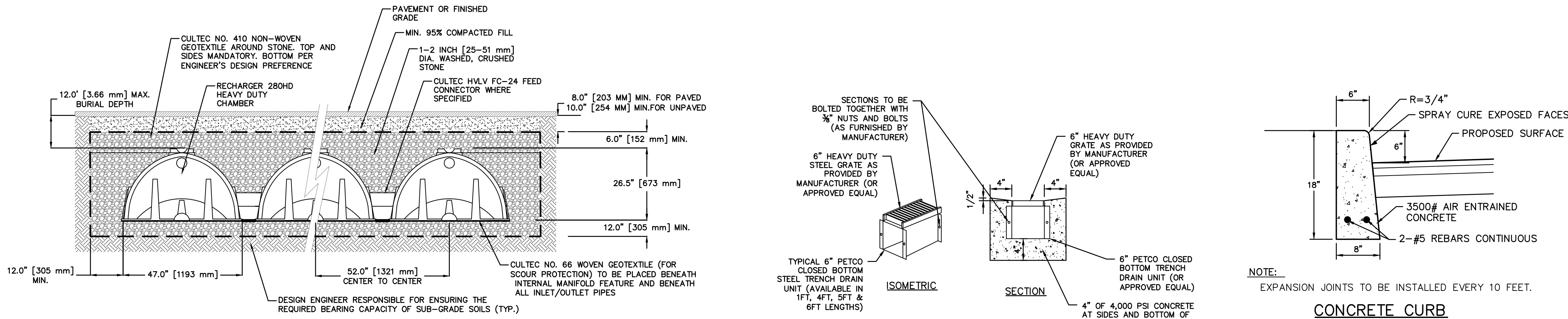
E Min.Sediment Storage Capacity (yd³)

125

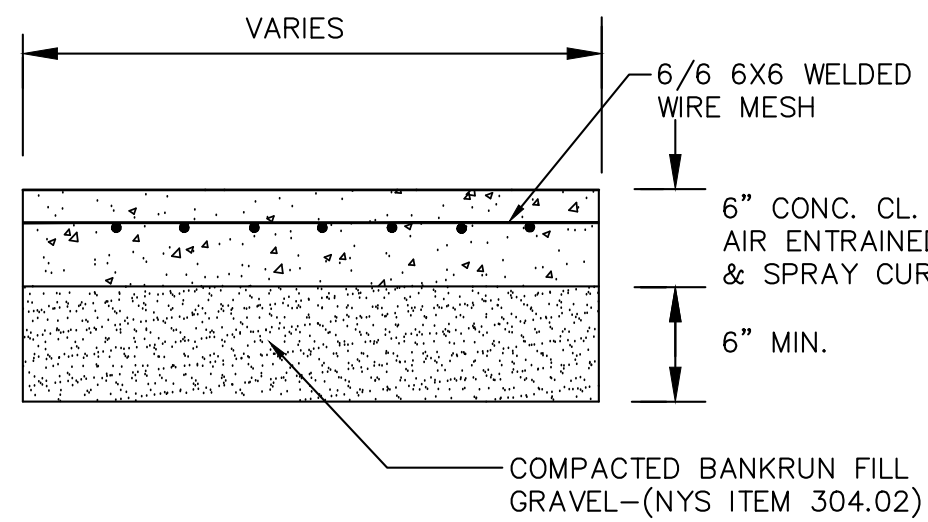
0.4



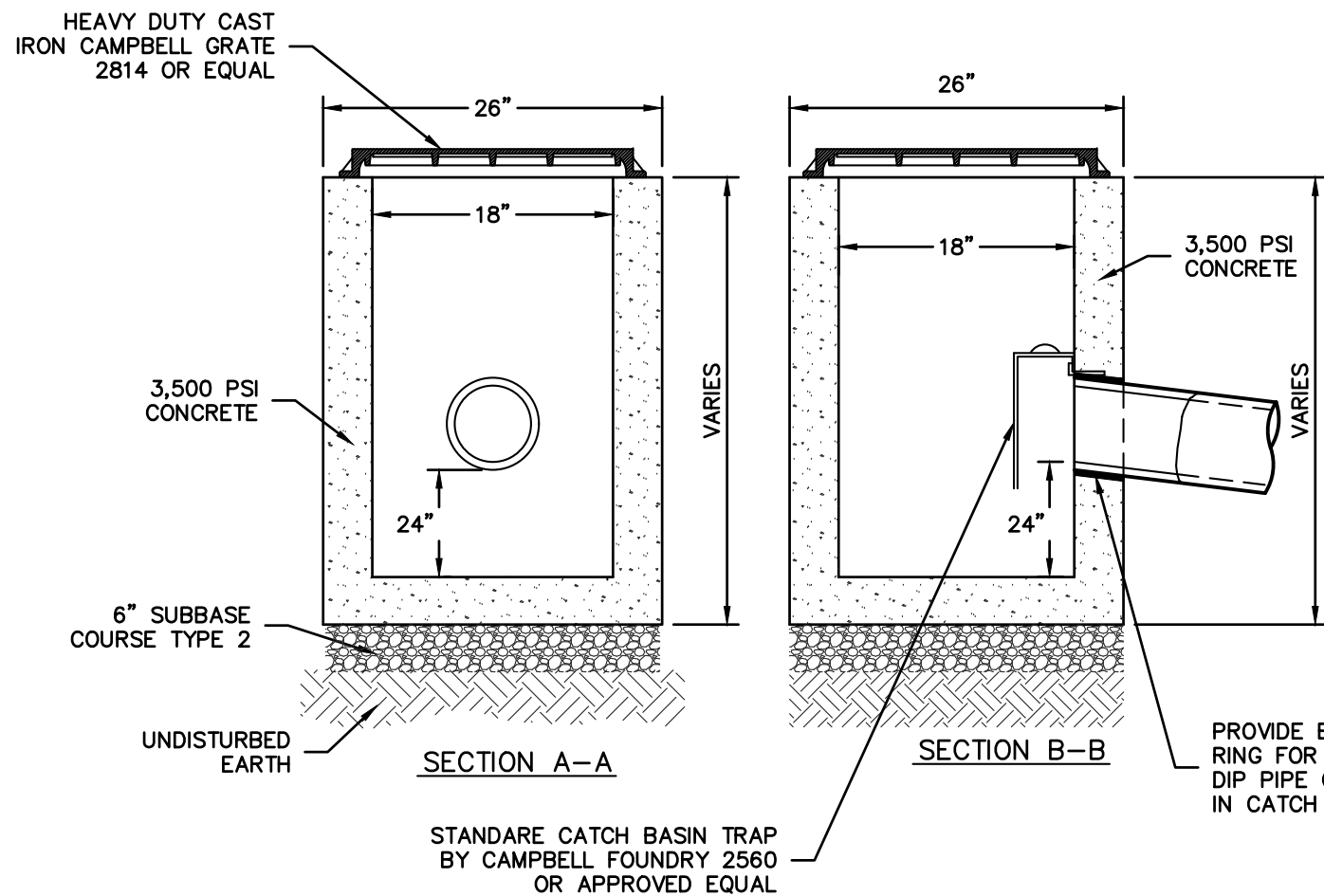
© Hydro International 2018



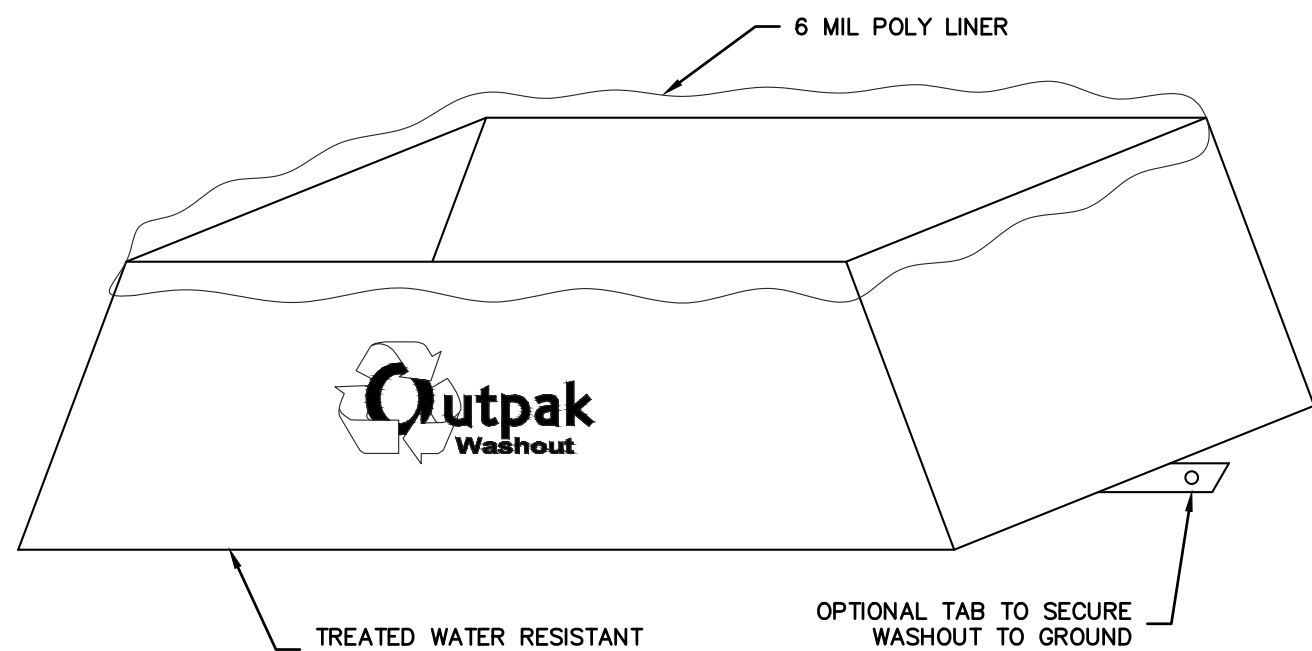
CULTEC RECHARGER 280HD TRAFFIC



CONCRETE PAVEMENT



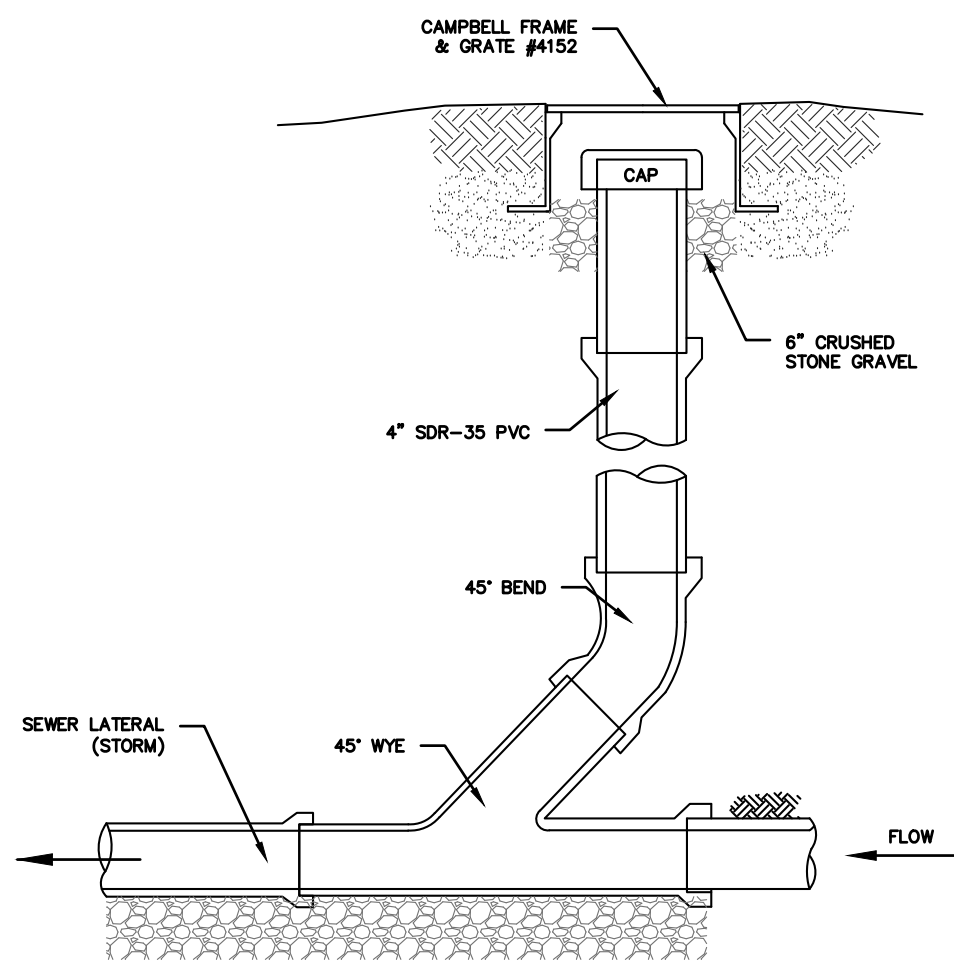
18\"X18\" PRECAST CONCRETE CATCH BASIN



NOTES:

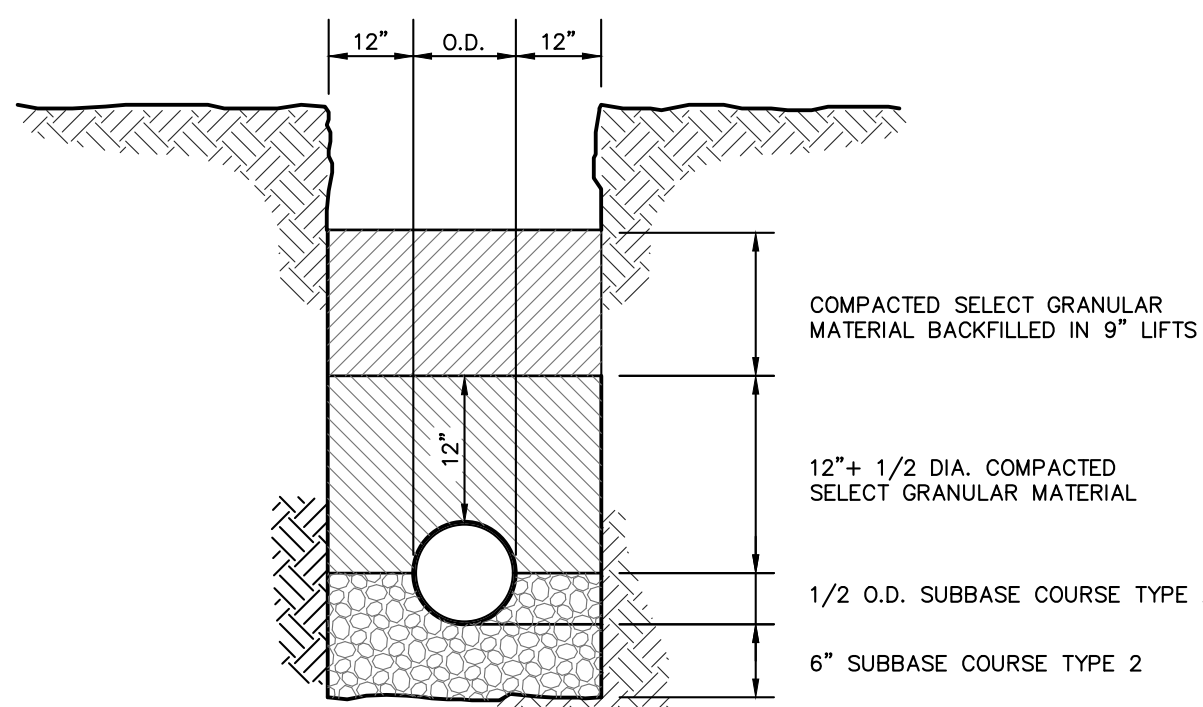
1. THE WASHOUT SHALL BE INSTALLED PRIOR TO USING MATERIALS THAT REQUIRE WASHOUT ON THIS PROJECT.
2. AS NECESSARY, SIGNS SHALL BE PLACED THROUGHOUT THE SITE TO INDICATE THE LOCATION OF THE WASHOUT.
3. THE WASHOUT AREA WILL BE REPLACED AS NECESSARY TO MAINTAIN CAPACITY FOR LIQUID WASTE.
4. WASHOUT RESIDUE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED WASTE FACILITY.
5. DO NOT WASHOUT INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS.
6. AVOID DUMPING EXCESS CONCRETE IN NON-DESIGNATED DUMPING AREAS.
7. LOCATE WASHOUT AT LEAST 50' (15 METERS) FROM STORM DRAIN, OPEN DITCHES, OR WATER BODIES.
8. THE WASHOUT SHALL BE USED ONLY FOR NON-HAZARDOUS WASTES.

CORRUGATED CONCRETE WASHOUT

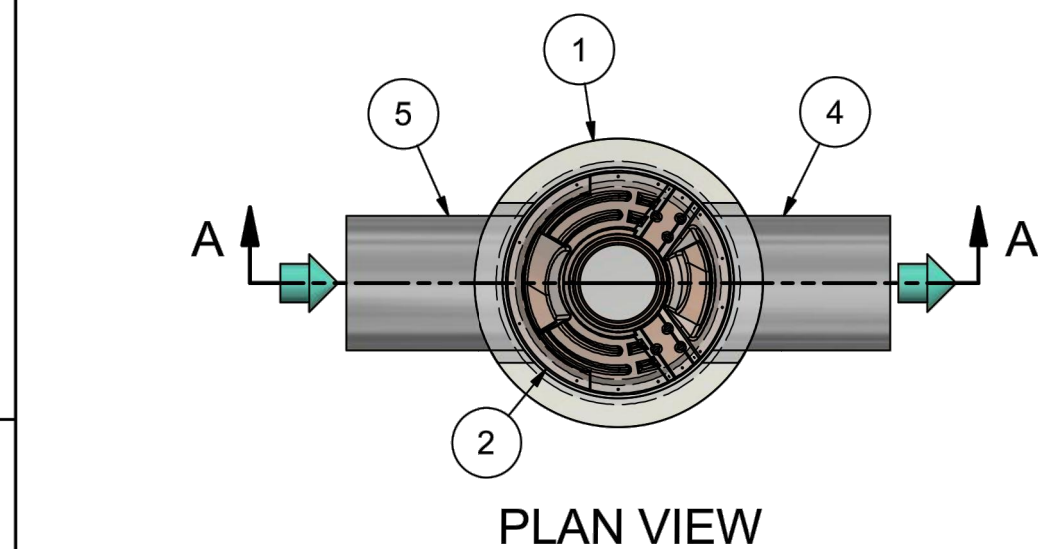


- NOTES (STORM SEWER):
1. REFER TO PLAN FOR SPECIFIC PIPE SIZING AND SLOPE SPECIFICATIONS; HOWEVER, IN GENERAL, ALL STORM SEWER SERVICES TO BE 6\" SCH. 40 @ 1.0% MINIMUM.
 2. CLEANOUTS SHALL BE PLACED BEFORE SIGNIFICANT PIPE BEND LOCATIONS (I.E., JUNCTIONS, 90-DEGREE BENDS, ETC.) UNLESS A ROOF LEADER DOWNSPOUT CONNECTION IS PROPOSED.

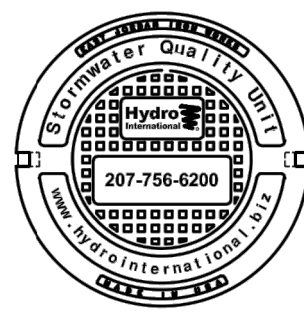
SEWER CLEANOUT DETAIL (GRAVITY)



TRENCH BEDDING (ON-SITE)



PLAN VIEW



HYDRO FRAME AND COVER (INCLUDED)
GRADE RINGS BY OTHERS
AS REQUIRED

PRODUCT SPECIFICATION:

1. PEAK HYDRAULIC FLOW: 15 cfs
2. MIN SEDIMENT STORAGE CAPACITY: 0.4 yd3
3. OIL STORAGE CAPACITY: 125 gal
4. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 18 in. (450 mm)
5. THE TREATMENT SYSTEM SHALL USE AN INDUCED VORTEX TO SEPARATE POLLUTANTS FROM STORMWATER RUNOFF.

GENERAL NOTES:

1. General Arrangement drawings only. Contact Hydro International for site specific drawings.
2. Inlet/outlet pipe angle can vary to align with drainage network (refer to project plan.)
3. Peak flow rate and minimum height limited by available cover and pipe diameter.

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY STRUCTURE, PLANT, OR EQUIPMENT, (OR THE PERFORMANCE THERE OF) DESIGNED, BUILT, MANUFACTURED, OR SUPPLIED BY ANY THIRD PARTY. HYDRO INTERNATIONAL HAVE A POLICY OF CONTINUOUS DEVELOPMENT AND RESERVE THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR PERFORMANCE OF ITS EQUIPMENT, (OR ANY PART THEREOF), IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE ANY DESIGN SPECIFICATION. HYDRO INTERNATIONAL OWNS THE COPYRIGHT OF THIS DRAWING, WHICH IS SUPPLIED IN CONFIDENCE. IT MUST NOT BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED AND MUST NOT BE REPRODUCED, IN WHOLE OR IN PART, WITHOUT PRIOR PERMISSION IN WRITING FROM HYDRO INTERNATIONAL.

PARTS LIST		
ITEM	DESCRIPTION	SIZE (in)
1	I.D. PRECAST MANHOLE	36
2	INTERNAL COMPONENTS (PRE-INSTALLED)	
3	FRAME AND COVER (ROUND)	30
4	OUTLET PIPE (BY OTHERS)	18
5	INLET PIPE (BY OTHERS)	18

PROJECTION

IF IN DOUBT ASK

COMMENTS:

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.

2. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASE OF UNIT TO FABRICATION.

DATE:

SCALE:

NTS

DRAWN BY:

CHECKED BY:

APPROVED BY:

ER

Title:

3 FT FIRST DEFENSE® HIGH CAPACITY

Site:

572 Van Ranst

Structure No:

Hydro International

hydro-int.com

HYDRO INTERNATIONAL

WEIGHT:

N/A

MATERIAL:

REFERENCE NUMBER:

DRAWING NO.:

SHEET:

B

SHEET:

1 OF 1

Rev:

-

shea@hudsonec.com

8/23/2021

PROJECT:

PROPOSED 10-UNIT RES. MID RISE
572 VAN RANST PLACE
SECTION: 8, BLOCK: 22, LOT: 255
VILLAGE OF MAMARONECK
WESTCHESTER COUNTY - NEW YORK

DETAILS

HEC

HUDSON
ENGINEERING
&
CONSULTING, P.C.
45 Knollwood Road - Suite 201
Elmsford, New York 10523
T: 914-909-0420
F: 914-560-2086
© 2021

Date:

09/01/21

Scale:

N.T.S.

Designed By:

S.G.

Checked By:

M.S.

Sheet No.

C-4

REVISIONS

2

REVISED PER PLANNING COMMENTS

02/16/22

1

REVISED PER PLANNING COMMENTS

10/27/21

1

THIS PLAN NOT VALID FOR CONSTRUCTION WITHOUT ENGINEERS SEAL & SIGNATURE

STATE OF NEW YORK

MICHAEL F. SHEA

NO. 00857

LICENSED PROFESSIONAL ENGINEER

