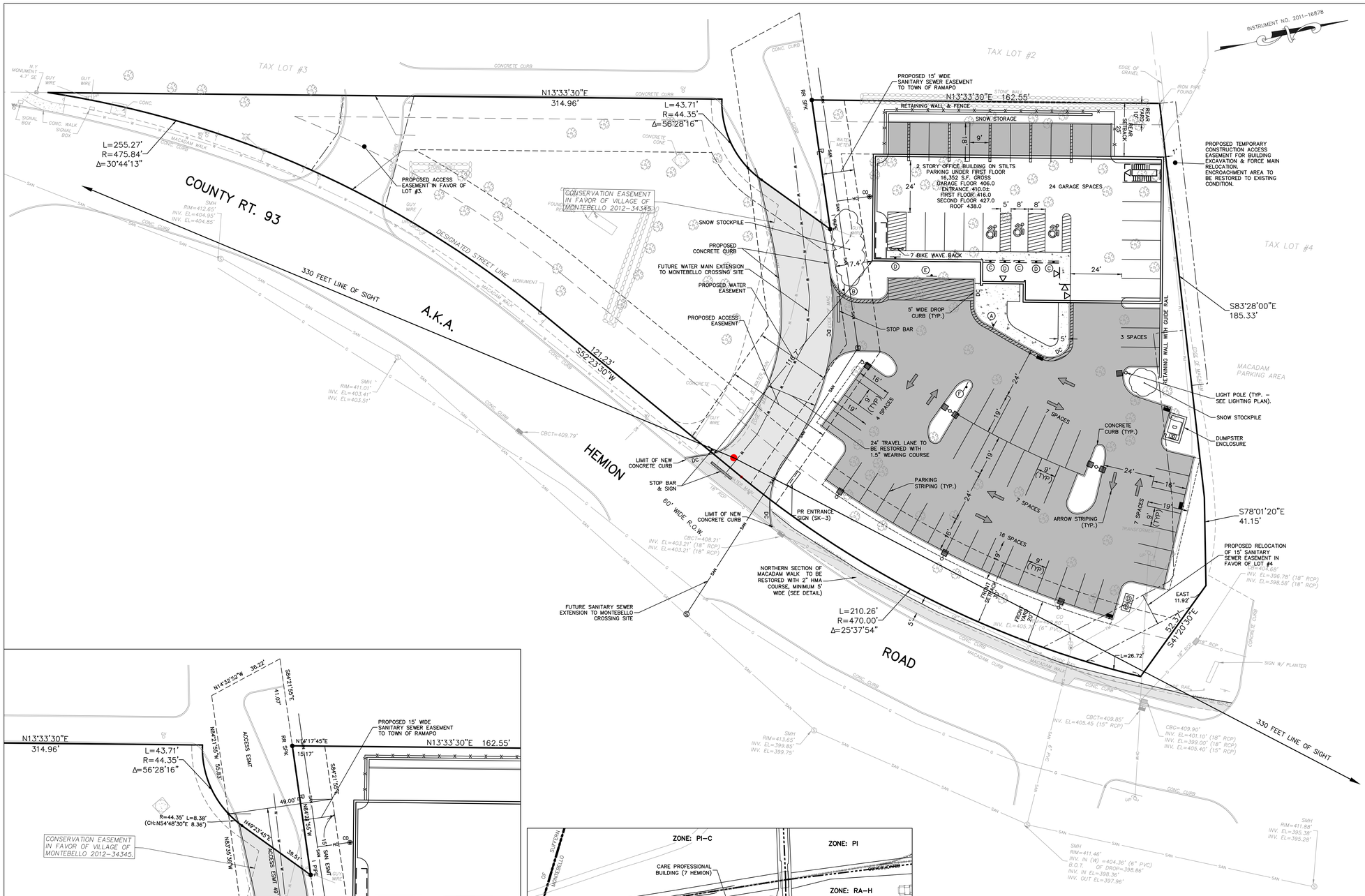


NOTES:

1. THIS IS A SITE PLAN FOR TAX LOT 55.10-1-5.2 AS SHOWN ON THE VILLAGE OF MONTEBELLO TAX MAPS.
2. AREA OF TRACT:..... 1.57 ACRES
3. ZONE:.....NS
4. PROPOSED USE:..... OFFICE, PROFESSIONAL AND BUSINESS
5. RECORD OWNER/APPLICANT.....HEMION LAND LEASE LLC
   102 NORBEN ROAD
   MONSEY, NY 10952
6. FIRE DISTRICT:.....TALLMAN FP004
7. SCHOOL DISTRICT:.....RAMAPO CENTRAL, 392601
8. WATER DISTRICT:.....VEOLIA NORTH AMERICA
9. WATER SUPPLY BY:.....VEOLIA NORTH AMERICA
10. SEWER DISTRICT:.....RR, RCSD #1
11. DATUM:.....N.A.V.D. 88
12. ALL UTILITIES SHALL BE UNDERGROUND. ELECTRIC SERVICE SHALL BE IN CONDUIT OF NOT LESS THAN TWO (2) INCH DIAMETER.
13. THERE ARE NO COVENANTS, DEED RESTRICTIONS, EASEMENTS OR OTHER RESERVATIONS OF LAND RELATIVE TO THIS SITE, EXCEPT AS SHOWN ON THIS PLAN, SUBJECT TO THE FINDINGS OF A COMPLETE AND UP-TO-DATE TITLE SEARCH.
14. NO SIGN(S) OTHER THAN THOSE SHOWN ON THESE DRAWINGS ARE PERMITTED WITHOUT PRIOR APPROVAL OF THE PLANNING BOARD. TENANTS ARE TO BE ADVISED OF THIS.
15. ALL CONSTRUCTION TO MEET WITH CURRENT VILLAGE OF MONTEBELLO SPECIFICATIONS.
16. ALL TRAFFIC SIGNS SHALL CONFORM WITH "N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES."
17. UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY FROM AVAILABLE INFORMATION. THE CONTRACTOR SHALL CALL THE LOCAL UNDERGROUND FACILITIES PROTECTIVE ORGANIZATION TO HAVE ALL UNDERGROUND UTILITIES MARKED IN THE FIELD PRIOR TO ANY CLEARING, DIGGING, OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE LOCATION AND INVERT OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. ANY UTILITY FOR WHICH NO EVIDENCE CAN BE SEEN ON THE SURFACE OF THE LANDS MAY NOT BE SHOWN ON THIS DRAWING.
18. ALL LANDSCAPING AS SHOWN ON THIS SITE PLAN SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH HEALTHY NEW PLANTS OF COMPARABLE SIZE, TYPE AND QUALITY AT THE BEGINNING OF THE IMMEDIATE FOLLOWING GROWING SEASON.
19. IF ANY EXISTING TREES THAT ARE DESIGNATED TO REMAIN ARE DESTROYED DURING CONSTRUCTION, OR OTHERWISE, THEY SHALL BE REPLACED IN KIND WITH A MINIMUM 4" CALIPER TREE.
20. THE UNDERSIGNED, OWNER AND/OR APPLICANT, AS A CONDITION OF APPROVAL OF THIS SITE PLAN, HEREBY AGREES TO COMPLETE THE WITHIN SITE PLAN AS DRAWN AND ALL IMPROVEMENTS SHOWN THEREON, AS A CONDITION OF THE ISSUANCE OF A BUILDING PERMIT. THE APPLICANT/OWNER IS AWARE THAT NO CHANGES IN THIS PLAN MAY BE MADE UNLESS APPROVED BY THE PLANNING BOARD.

APPLICANT _____ DATE

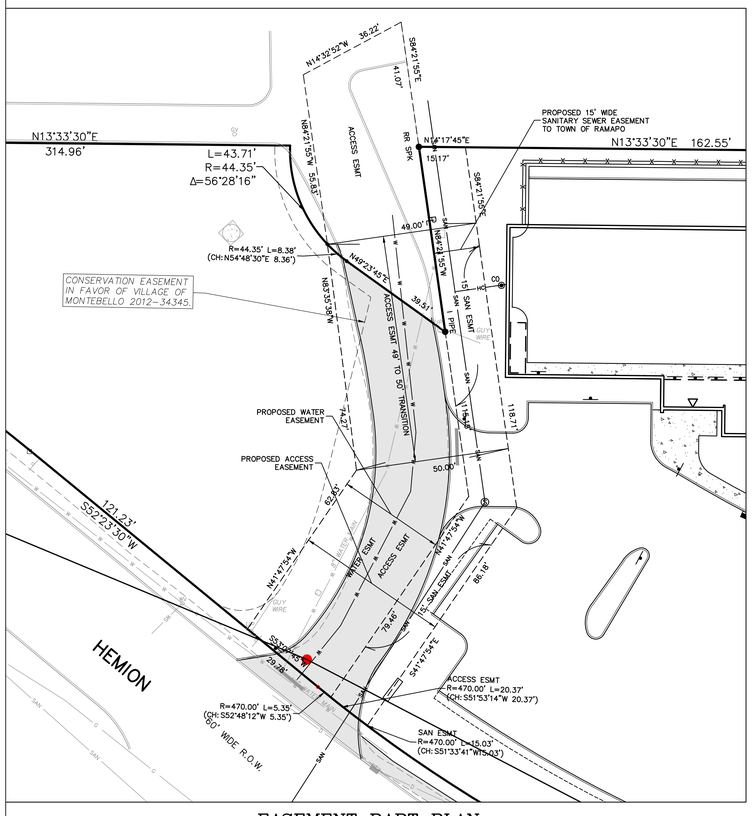
OWNER _____ DATE

21. PLANS ARE BASED ON FIELD ENGINEERING DATA AND CERTIFIED HERETO BY:

LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR DATE

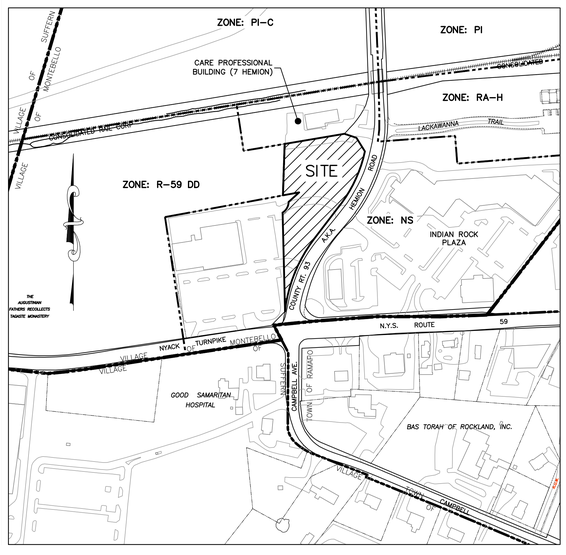
SIGN SCHEDULE

SYMBOL	SIGN PANEL	QUANTITY
(A)	"NO PARKING FIRE ZONE"	1
(B)	STOP SIGN MUTCD R1-1	1
(C)	ADA PARKING MUTCD R7-8	3
(D)	NO PARKING ANYTIME MUTCD R7-1	3
(E)	'LOADING ZONE NO PARKING'	1
(F)	'ADA ACCESSIBLE ENTRANCE IN GARAGE'	1



EASEMENT PART PLAN

SCALE: 1"=20'



VICINITY MAP

SCALE: 1"=200'

BULK TABLE

ZONE: NS, USE GROUP: B
OFFICES

	MINIMUM LOT AREA, SF	LOT WIDTH, FT	FRONT SETBACK, FT	FRONT YARD, FT	SIDE SETBACK, FT	TOTAL SIDE SETBACK, FT	SIDE YARD, FT	REAR SETBACK, FT	REAR YARD, FT	STREET FRONTAGE, FT	MAXIMUM HEIGHT, FT	DEVELOPMENT COVERAGE, %	FAR
REQUIRED	20,000	100	30	20	0 / 10	0	0	25	10	150	30	75	0.40
PROPOSED	1.57 AC	484.45	116.7	20	1.0 / 17.4	0	0	25	10	586.78	30	49%	0.24

PARKING ANALYSIS

REQUIRED: 1 PER 250 SF PLUS 3 PER SUITE
16,357 SF / 250 SF = 66 SPACES
PLUS 3 X 5 SUITES = 15 SPACES

TOTAL: 81 SPACES

PROVIDED: 68 SPACES

(81 - 68) = 13
(13 / 81) = .1605

-> REDUCTION OF 16.1% REQUESTED AS PER VILLAGE CODE SECTION 195-28-B

MAXIMUM HEIGHT CALCULATION:

AVERAGE FINISHED GRADE: *407.81
ROOF ELEVATION = **437.81
BUILDING HEIGHT = (437.81 - 407.81) = 30.0'

*AS PER AVERAGE FINISHED GRADE PROFILE AROUND PERIMETER OF BUILDING (SEE SHEET 3)
**AS PER ARCHITECTURAL ELEVATION PLAN

FLOOR AREA CALCULATIONS

PR. BUILDING (8,176 X 2 FL)	16,352 SQ. FT.
TOTAL	16,352 SQ. FT.

16,352 SQ. FT. / 68,389 = 0.239

IMPERVIOUS COVERAGE CALCULATIONS

EX. MACADAM ENTRANCES	4,707 SQ. FT.
PR. DRIVEWAY & PARKING	19,310 SQ. FT.
PR. BUILDING	8,176 SQ. FT.
PR. CONC. WALKS & SLABS	914 SQ. FT.
TOTAL	33,107 SQ. FT.

33,107 SQ. FT. / 68,389 = 0.484 = 49%

OWNER DATE

PLANNING BOARD CHAIRMAN DATE

4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23
REV	DESCRIPTION	BY	DATE

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBSECTION 2.

Weston & Sampson

Weston & Sampson PE, LS, LA, Architects, PC
74 Lafayette Ave, Suite 501
Suffern, NY 10901
845.357.4411 800.SAMPSON

www.westonandsampson.com

PROJECT:

5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:

SITE PLAN

STATE OF NEW YORK · BRIAN A. BROOKER · 60229 · LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROOKER,
PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'

GRAPHIC SCALE: 0 20' 40'

DATE: 04/04/23

DRAWING NO: 1

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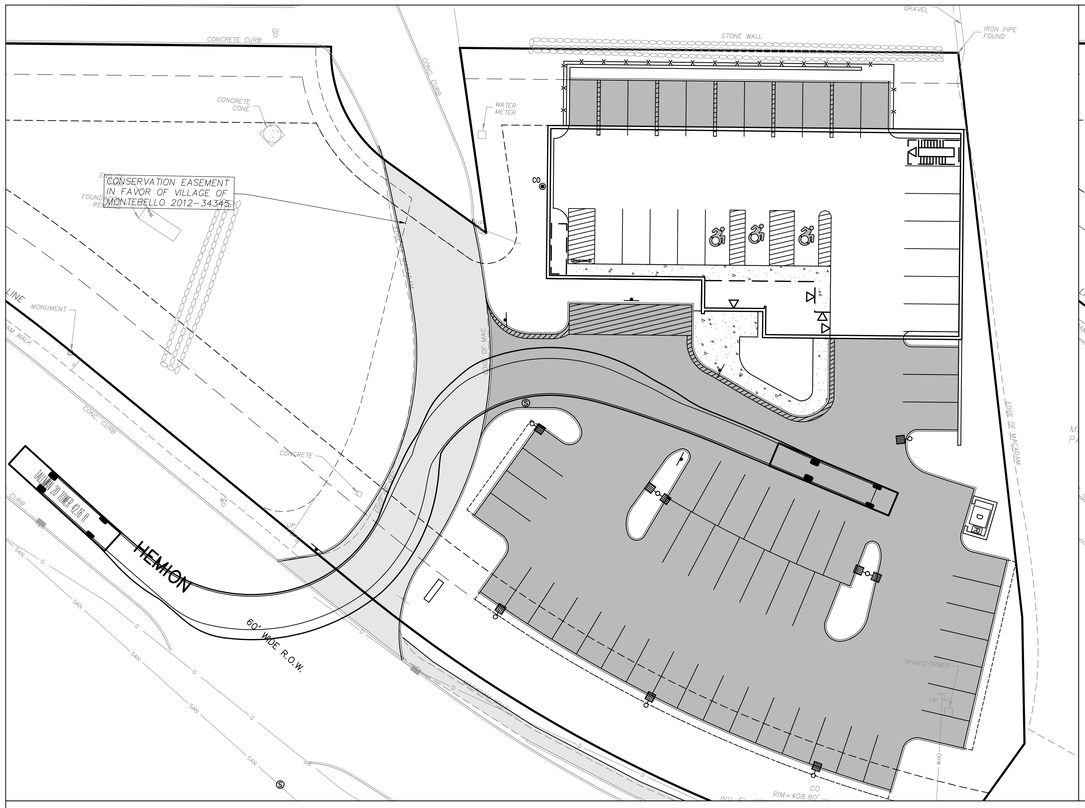
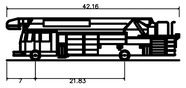


ENTRY FROM NORTHBOUND HEMION ROAD – UTILIZING ACCESS DRIVE

SCALE: AS NOTED

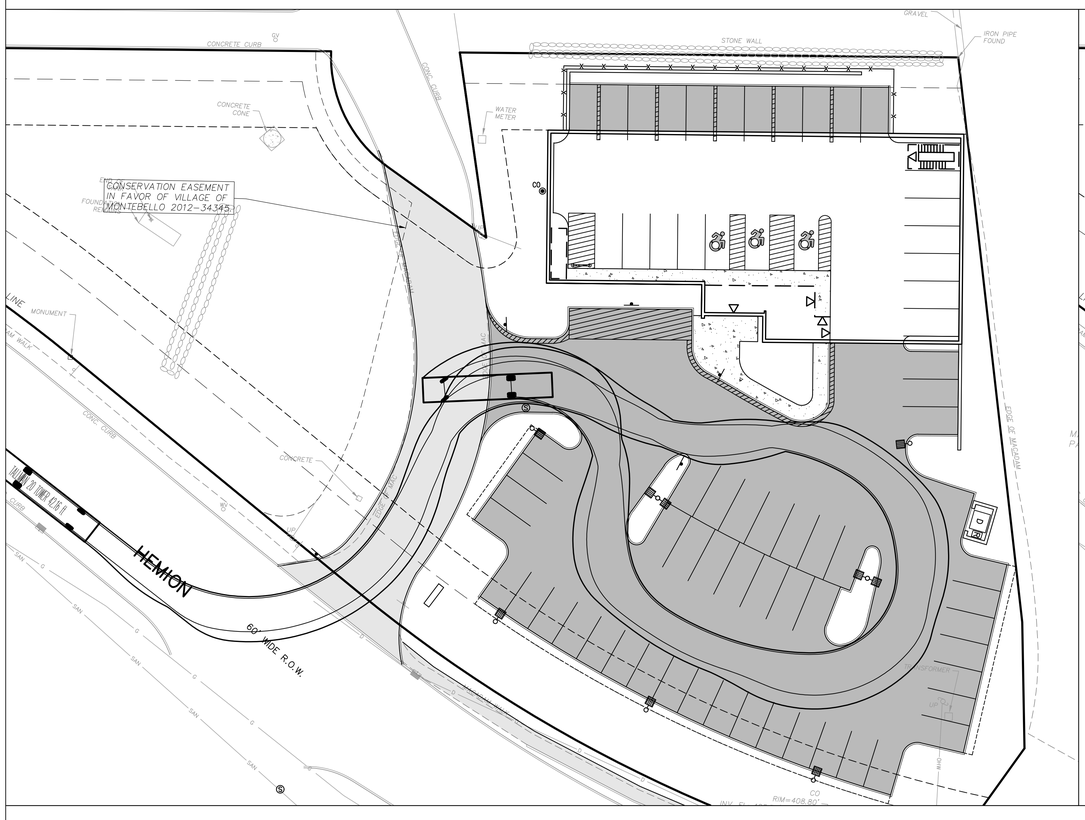
EXIT TO SOUTHBOUND HEMION ROAD – UTILIZING ACCESS DRIVE

SCALE: AS NOTED



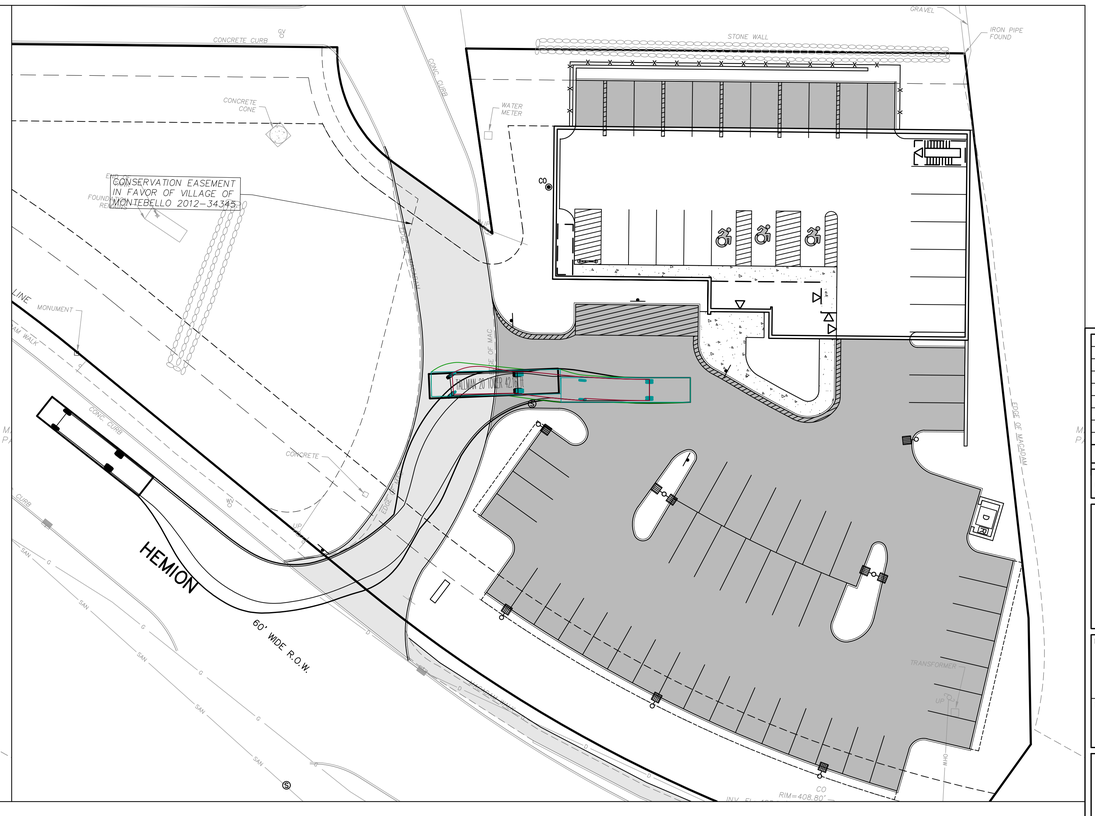
TALLMAN 20 TOWER 42.16 ft

Overall Length	42.160ft
Overall Width	8.000ft
Overall Body Height	10.243ft
Min Body Ground Clearance	0.673ft
Track Width	6.920ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	40.670ft



ENTRY FROM NORTHBOUND HEMION ROAD – CIRCULATION IN PARKING LOT

SCALE: AS NOTED



EXIT TO SOUTHBOUND HEMION ROAD – CIRCULATION IN PARKING LOT

SCALE: AS NOTED

REV	DESCRIPTION	BY	DATE
4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

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Suffern, NY 10901
845.357.4411 800.SAMPSON

www.westonandsampson.com

PROJECT:

5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:

FIRE TRUCK MANEUVERABILITY PLAN

BRIAN A. BROOKER,
PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'

GRAPHIC SCALE: 0 20' 40'

DATE: 04/04/23

DRAWING NO: 2

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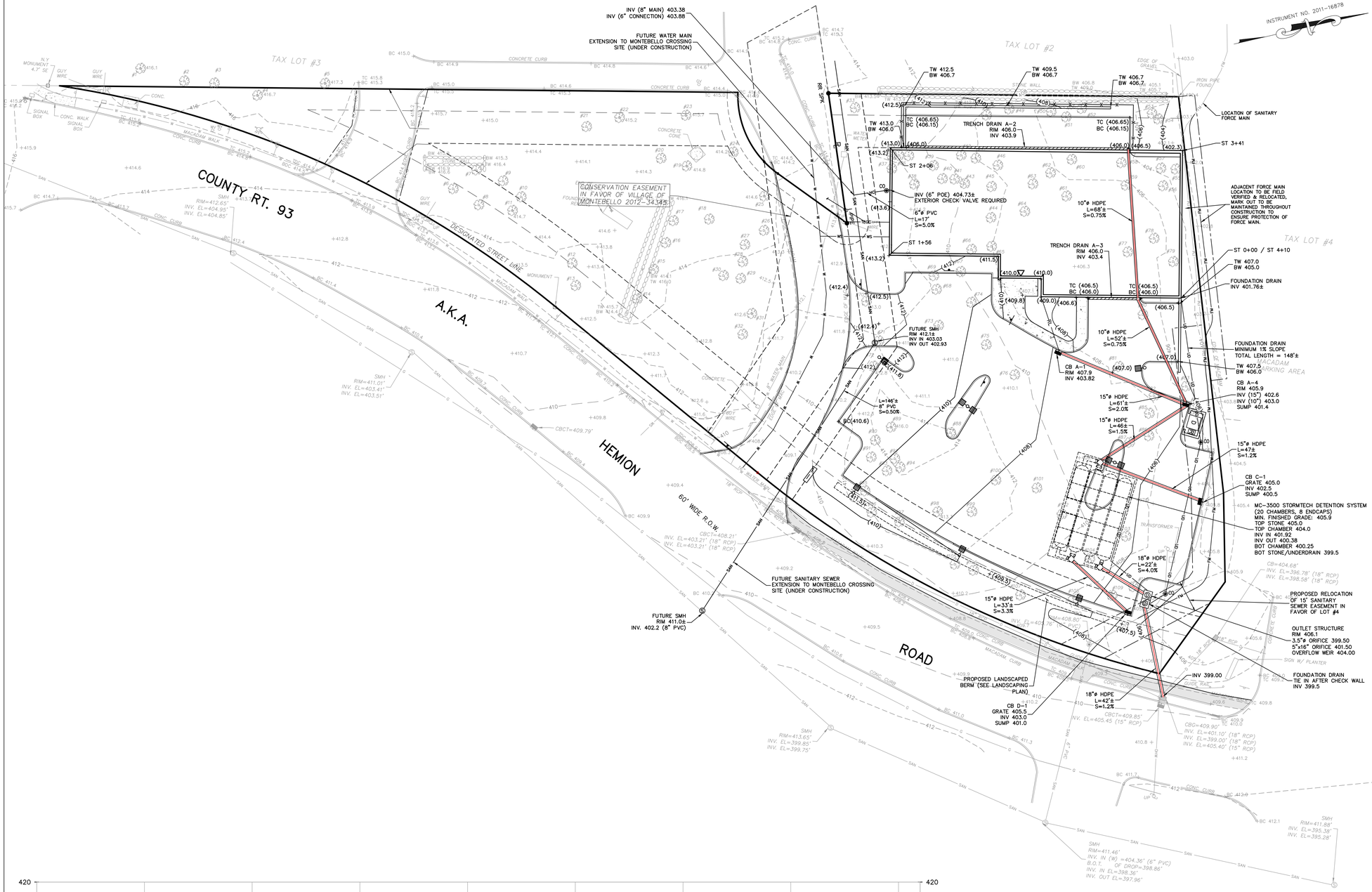

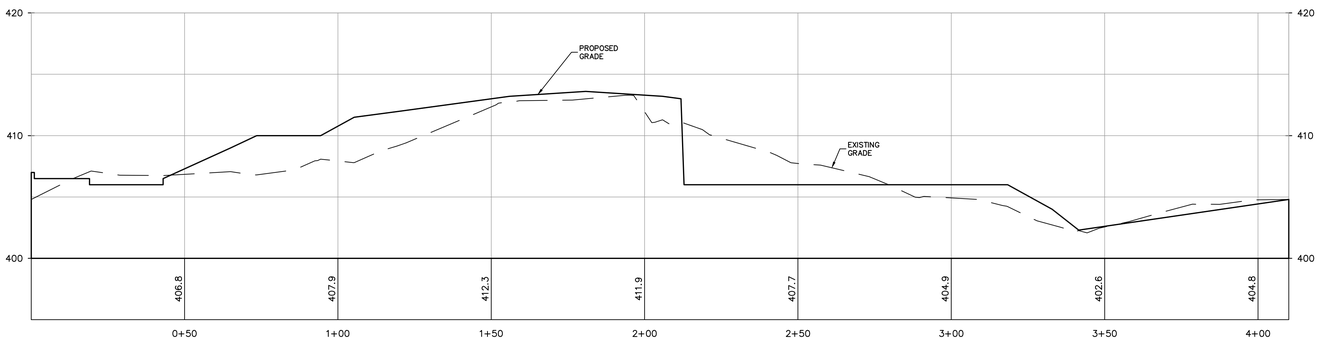

PROPOSED ALIGNMENT AROUND BUILDING
SCALE: HORIZONTAL 1"=20'
SCALE: VERTICAL 1"=5'

AVERAGE FINISHED GRADE CALCULATION:

AREA UNDER PROFILE: 3,204 SQUARE FEET
LENGTH OF PROFILE = 410 FEET

3,204 / 410 = 7.81 FEET
400 (DATUM) + 7.81 = 407.81 FEET

AVERAGE FINISHED GRADE = 407.81 FEET

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL FIELD LOCATE ALL EXISTING UTILITIES AND VERIFY ALL LOCATIONS, ELEVATIONS, INVERTS, ETC. PRIOR TO ANY CONSTRUCTION AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES ON THIS PLAN.
2. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND HAVE ALL UTILITIES FIELD LOCATED BY RESPECTIVE UTILITY COMPANY AND SHALL ASSUME FULL RESPONSIBILITY AND SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING CONTINUOUS UTILITY SERVICE AND REPAIRS TO ANY DAMAGE.
3. PROJECT SAFETY AND TRAFFIC MAINTENANCE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR TO COORDINATE WITH ALL COMPANIES TO ASSURE ADEQUATE SUPPLY AND SCHEDULING OF NEW SERVICE, WHERE REQUIRED, TO FIT THE CONSTRUCTION SCHEDULING AND SEQUENCE TO ASSURE NO DAMAGE OR DISTURBANCE TO EXISTING SERVICES. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY THE OWNER AND ENGINEER OF ANY UNANTICIPATED UTILITIES ENCOUNTERED AND MAINTAIN THE UTILITIES IN WORKING ORDER UNTIL THEIR DISPOSITION IS RESOLVED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION, PROTECTION AND/OR TEMPORARY SUPPORT OF ANY UTILITIES ENCOUNTERED WITHIN THE WORK AREA.
7. THE CONTRACTOR SHALL COORDINATE DIRECTLY WITH EACH AFFECTED UTILITY COMPANY, SHALL APPLY FOR AND OBTAIN THE NECESSARY PERMITS AND APPROVALS, AND SHALL INITIATE AND COORDINATE ALL INSPECTIONS NECESSARY FOR FINAL APPROVAL AND ACCEPTANCE BY THE SUBJECT UTILITY COMPANY.
8. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CONTINUOUS SERVICE OF ALL EXISTING UTILITIES WITHIN THE WORK AREA AT ALL TIMES. CONTRACTOR SHALL COORDINATE ANY REPAIR, RELOCATION OR REMOVAL OF EXISTING UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY AND PROVISIONS MUST BE PROVIDED FOR TEMPORARY SERVICE OF ANY RESPECTIVE UTILITY SERVICE AFFECTED BY THE CONSTRUCTION IN THE EVENT OF ANY DISRUPTION TO THE EXISTING UTILITY. SHUT-DOWNS SHALL BE AT THE DISCRETION OF THE RESPECTIVE UTILITY COMPANIES AND COORDINATED WITH THE MUNICIPALITY AND THE ENGINEER FOR PUBLIC NOTICE IF NECESSARY. TEMPORARY SERVICE SHALL BE PROVIDED AND MAINTAINED AT NO ADDITIONAL COST.
9. ALL STORM DRAINAGE PIPE TO BE HIGH DENSITY POLYETHYLENE PIPE (HDPE) WITH SMOOTH INTERIOR UNLESS OTHERWISE SPECIFIED.
10. ALL ROOF LEADERS ARE TO BE CONNECTED TO THE ON-SITE STORMWATER SYSTEM. ROOF DOWNSPOUTS AND RECEIVING LEADER SIZES SHALL BE 4"ø. FINAL LOCATIONS OF ROOF LEADERS ARE TO BE FINALIZED BY CONTRACTOR. ROOF LEADER PIPES SHALL BE SDR-35 PVC.
11. WATER SERVICE LINE AND SEWER CONNECTION SHALL BE PLACED IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL DISTANCE OF TEN FEET BETWEEN THEM.
12. SANITARY SEWER PIPE SHALL BE SDR-35 PVC.
13. WATER MAIN PIPE, VALVES, FITTINGS, THRUST RESTRAINT, TAPPING SLEEVES, HYDRANTS, ETC SHALL CONFORM WITH SUEZ WATER NEW YORK STANDARD SPECIFICATIONS (CURRENT EDITION).
14. ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
15. ALL DIMENSIONS ARE MEASURED TO THE ROUGH UNLESS OTHERWISE NOTED. ELEVATIONS AND DIMENSIONS SHOWN ARE FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS IN THE FIELD PRIOR TO THE USE OF SUCH INFORMATION IN BIDDING OR CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DIMENSIONAL DISCREPANCIES.
16. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
17. THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. UPON COMPLETION OF WORK, ALL EXCESS MATERIAL, DEBRIS, ETC. SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE WORK AREA SHALL BE LEFT CLEAN TO THE OWNER'S SATISFACTION.
18. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
19. IF THE LOWEST FLOOR TO BE SEWERED IS BELOW THE UPSTREAM SEWER RIM ELEVATION, AN EXTERIOR CHECK VALVE IS REQUIRED.

MOSQUITO CONTROL NOTES

1. ALL STORMWATER FACILITIES ON THIS SITE HAVE BEEN DESIGNED TO REMOVE ALL STANDING WATER WITHIN FIVE DAYS OF A RAIN EVENT.
2. ALL STORMWATER FACILITIES SHALL BE INSPECTED AFTER SIGNIFICANT RAINFALLS AND AT LEAST ONCE PER MONTH.
3. IF, UPON INSPECTION, WATER REMAINS IN THE STORMWATER FACILITIES LONGER THAN FIVE DAYS AFTER A RAIN EVENT, ONE OF THE FOLLOWING MEASURES WILL BE TAKEN:
   A) THE WATER WILL BE MECHANICALLY REMOVED (I.E. BY VACUUM); OR
   B) THE WATER WILL BE MECHANICALLY AGITATED TO PREVENT MOSQUITO BREEDING; OR
   C) THE WATER WILL BE TREATED WITH MOSQUITO LARVICIDE IN ACCORDANCE WITH NYSDEC AND ROCKLAND COUNTY HEALTH DEPARTMENT GUIDELINES, REGULATIONS AND PROCEDURES.
4. MOSQUITO BREEDING SUPPRESSION MEASURES MUST BE IMPLEMENTED BETWEEN APRIL 1 AND OCTOBER 31.
5. LARVICIDE TO BE APPLIED SHALL BE "MOSQUITO DUNKS" AS MANUFACTURED BY SUMMIT CHEMICAL CO., BALTIMORE, MD. OR ROCKLAND COUNTY DEPARTMENT OF HEALTH APPROVED EQUAL. LARVICIDE SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
6. THE LONG TERM MAINTENANCE OF THE ON-SITE STORMWATER SYSTEM SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

POST CONSTRUCTION STORMWATER SYSTEM MAINTENANCE NOTES:

1. CATCH BASINS
   A) MONTHLY INSPECTIONS – CHECK FOR TRASH, EXCESSIVE SEDIMENT AND ANY SIGNS OF ILLICIT DISCHARGES
   B) MUST BE CLEANED OF SEDIMENT AT LEAST ONCE PER YEAR DURING THE MONTH OF APRIL AND AT ALL OTHER TIMES NECESSARY TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THE SYSTEM.
2. STORMWATER CONVEYANCE
   A) ANNUAL INSPECTIONS – CHECK FOR TRASH, EXCESSIVE SEDIMENT AND ANY SIGNS OF ILLICIT DISCHARGES
   B) MUST BE MAINTAINED AS NECESSARY AS FOUND BY INSPECTION.
3. STORMTECH UNITS

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
A. INSPECTION PORTS (IF PRESENT)
A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 MM) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3
B. ALL ISOLATOR ROWS
B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
   I) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
   II) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
B.1. 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. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 M) OR MORE IS PREFERRED
B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
C. VACUUM STRUCTURE SUMP 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 VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

EMERGENCY GENERATOR NOTES

1. (2) EMERGENCY GENERATORS TO BE LOCATED ON ROOF OF OFFICE BUILDING. SEE ARCHITECTURAL PLANS FOR LOCATION AND SPECIFICATIONS.
2. GENERATOR EXERCISE TIMES SHALL ONLY BE PERFORMED MONDAY THROUGH FRIDAY BETWEEN THE HOURS OF 10:00 AM AND 4:00 PM
3. (2) EMERGENCY GENERATORS SHALL BE PROVIDED WITH A LEVEL 2 SOUND ATTENUATION ENCLOSURE.

REV	DESCRIPTION	BY	DATE
4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

Weston & Sampson
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Suffern, NY 10901
845.357.4411 800.SAMPSON
www.westonandsampson.com

PROJECT:
5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:
GRADING, DRAINAGE & UTILITY PLAN

STATE OF NEW YORK – BRIAN A. BROOKER – 60229 – LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROOKER, PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'
GRAPHIC SCALE: 0 20' 40'
DATE: 04/04/23
DRAWING NO: 3

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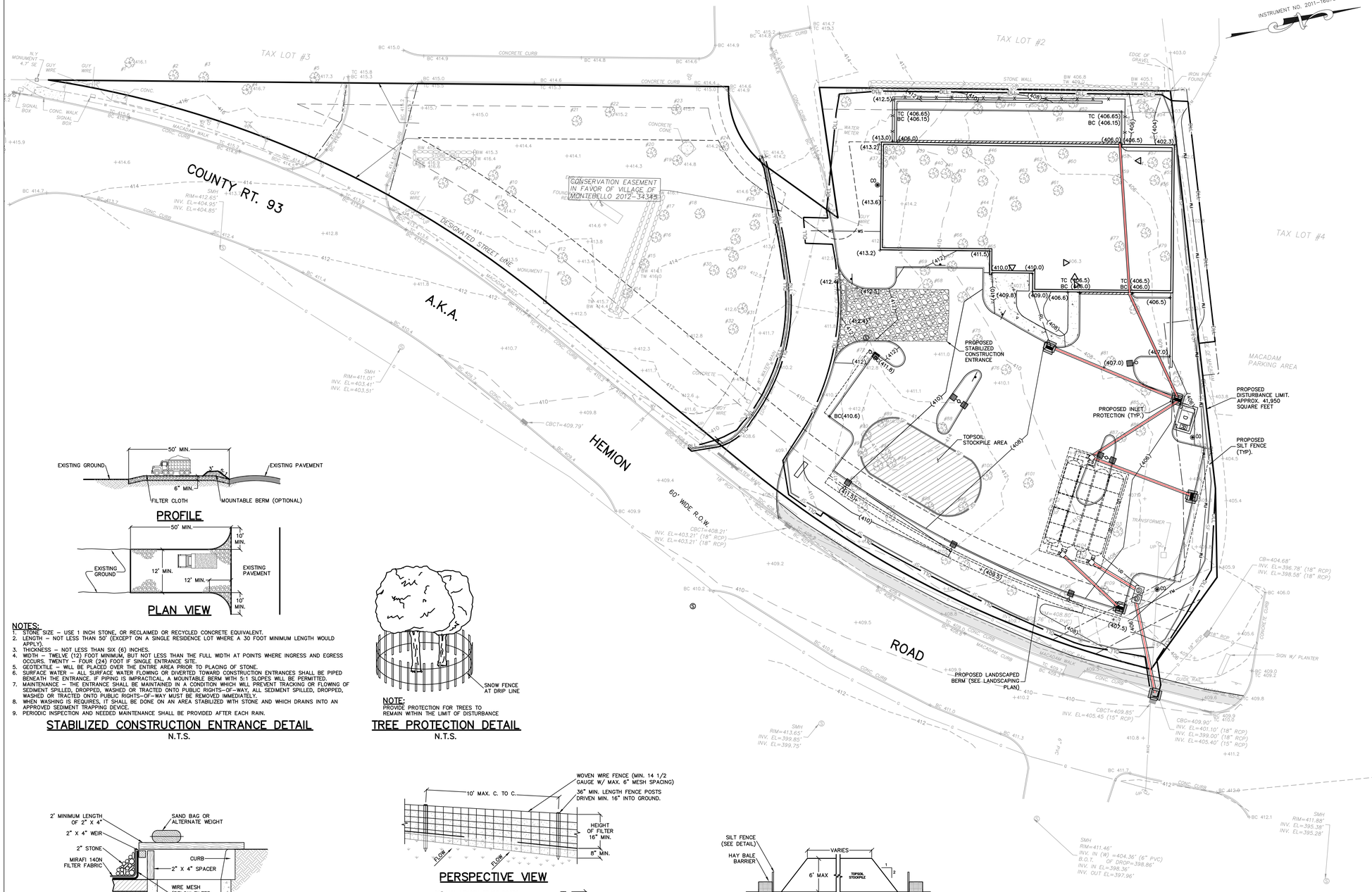


STANDARD EROSION CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND SHALL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
2. THE SITE AT ALL TIMES SHALL BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND INSPECTING ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
4. STOCKPILES ARE NOT TO BE LOCATED WITHIN A FLOODPLAIN, BUFFER, ON A SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAY BALE SEDIMENT BARRIER OR SILT FENCE.
5. A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
6. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE WORK AREA OR ONTO PUBLIC RIGHT-OF-WAY, SHALL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
7. DUST SHALL BE CONTROLLED AT ALL TIMES IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
8. TREES TO REMAIN AFTER CONSTRUCTION WITHIN THE WORK AREA SHALL BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
9. TEMPORARY SEDIMENTATION ENTRAPMENT AREAS SHALL BE PROVIDED AT KEY LOCATIONS TO INTERCEPT AND CLARIFY SILT LADEN RUNOFF FROM THE SITE. THESE MAY BE EXCAVATED OR MAY BE CREATED UTILIZING EARTHEN BERMS, RIP-RAP OR CRUSHED STONE DAMS, HAY BALES, OR OTHER CHANNELIZATION SHALL BE CONSTRUCTED TO INSURE THAT ALL SILT LADEN WATERS ARE DIRECTED INTO THE ENTRAPMENT AREAS, WHICH SHALL NOT BE PERMITTED TO FILL IN, BUT SHALL BE CLEANED PERIODICALLY DURING THE COURSE OF CONSTRUCTION. THE COLLECTION SILT SHALL BE DEPOSITED IN AREAS SAFE FROM FURTHER EROSION.
10. ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN OPEN OR UNFINISHED FOR MORE THAN 10 DAYS SHALL BE TEMPORARILY SEEDED WITH 1/2 LB. OF RYE GRASS OR MULCHED WITH 100 LBS. OF STRAW OR HAY PER 1,000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS RAPIDLY AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE. A TEMPORARY SEEDING AND/ OR MULCHING SHOULD BE APPLIED TO DISTURBED AREAS THAT ARE LEFT FOR 15 DAYS UNLESS CONSTRUCTION WILL BEGIN WITHIN 30 DAYS.
11. SILT THAT LEAVES THE SITE SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
12. AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY SILTATION DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS RE-GRADED, PLANTED, OR TREATED IN ACCORDANCE WITH THE APPROVED PLANS.
13. ALL AREAS DISTURBED BY ON-SITE GRADING, THAT WILL NOT BE CONSTRUCTED UPON, SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER, USING THE FOLLOWING SEEDING SCHEDULE, OR EQUIVALENT:

	1 LB. PER ACRE	1 LB. PER 1,000 SF
KENTUCKY BLUE GRASS –	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYE GRASS –	5	0.10

14. ALL SEEDED AREAS TO HAVE AN APPLICATION OF THE FOLLOWING:
    LIME – AMOUNT NEEDED TO OBTAIN A pH OF 5.5
    FERTILIZER – 15 LBS. PER 1,000 SF OF 10-20-10 FERTILIZER OR APPROVED EQUAL.
    IF NOT LANDSCAPED OTHERWISE, ALL NEW CONSTRUCTED STEEP PERMANENT SLOPED LESS THEN 1 (VERTICAL) : 2.5 (HORIZONTAL) TO BE SEEDED WITH THE FOLLOWING:

	1 LB. PER ACRE	1 LB. PER 1,000 SF
CREEPING RED FESCUE –	10	0.45
CROWN VETCH –	15	0.35
BIRDSFOOT TREFOIL –	8	0.20
TALL FESCUE OR SMOOTH BROMEGRASS –	15	0.35
W/PERENNIAL RYE GRASS –	5	0.10

15. ALL SLOPES 1 (VERTICAL) : 2.5 (HORIZONTAL) TO BE MULCHED AND STABILIZED WITH CLOTH FABRIC AND PINNED TO THE GROUND.
16. SOD CAN BE USED INSTEAD OF SEED.
    CONSTRUCTION SEQUENCE:
    a. CONSTRUCT STABILIZING CONSTRUCTION ENTRANCE.
    b. INSTALL SEDIMENT BARRIERS AS PER NOTE 1 ABOVE.
    c. CONSTRUCT DIVERSIONS SWALES AND DRAINAGE SYSTEMS WITH MINIMUM NECESSARY CLEARING.
    d. CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED.
    e. PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE. INSTALL STORM DRAINAGE SYSTEM.
    f. INSTALL SEDIMENT CONTROL BARRIERS AROUND ALL STORM DRAIN INLETS.
    g. SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OR 30 DAYS AS PER NOTE 2 ABOVE.
    h. AFTER COMPLETION OF THE SITE CONSTRUCTION FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED AS PER NOTES 5 AND 6 ABOVE.
    i. REMOVE SEDIMENT BARRIERS AS PER NOTE 4 ABOVE.
    j. MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE SPECS.
17. ALL CONSTRUCTION TO MEET CURRENT VILLAGE SPECS.
18. 4" OF TOP SOIL TO BE SPREAD PRIOR TO SEEDING IN ALL DISTURBED AREAS.

CONSTRUCTION SEQUENCE:

FIELD VERIFY LOCATION OF NORTHERN FORCE MAIN. CONTRACTOR TO ALERT OWNER'S ENGINEER TO ANY DEVIATIONS IN THE LOCATION OF THE FORCE MAIN OWNED TO LOT #4. IF DEVIATIONS ARE FOUND NO ADDITIONAL WORK SHALL PROCEED UNTIL DEVIATIONS ARE RESOLVED.

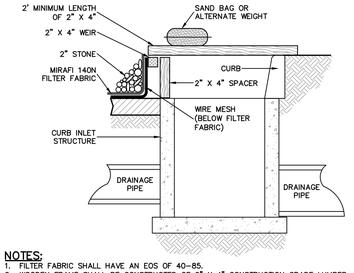
1. NOTIFY ALL INVOLVED AGENCIES OF PROPOSED CONSTRUCTION SCHEDULE.
2. CONSTRUCT SNOW FENCING AROUND TREES, STRUCTURES, OR OTHER FEATURES IDENTIFIED BY THE OWNER TO BE PROTECTED DURING CONSTRUCTION.
3. CONSTRUCT STABILIZED CONSTRUCTION ENTRANCES.
4. INSTALL SILT FENCE BARRIERS AT THE BASE OF ALL PROPOSED SLOPES AS DESIGNATED ON THIS PLAN.
5. CONSTRUCT TEMPORARY SEDIMENT TRAPS AT THE LOCATIONS OF CONCENTRATED STORM WATER RUNOFF, INCLUDING SWALES AND BERMS AS NEEDED TO DIRECT STORM WATER RUNOFF TO THE TRAPS.
6. PRIOR TO THE START OF GRADING OPERATIONS, THE CONTRACTOR SHALL DEMONSTRATE, TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE, THAT THE AREAS DESIGNATED TO REMAIN PROTECTED OR UNDISTURBED ARE PROTECTED BY THE UNINTERRUPTED SYSTEM OF SILT FENCE BARRIERS, BASINS, BERMS, AND/OR SWALES.
7. CLEAR AND GRUB VEGETATION IN AREAS TO BE GRADED.
8. STRIP TOPSOIL AND STOCKPILE IN APPROVED LOCATIONS, AS DESIGNATED ON THE PLAN.
9. STABILIZE TOPSOIL STOCKPILE AREAS AND INSTALL SILT FENCE.
10. INSTALL TEMPORARY DIVERSION MEASURES. DURING CONSTRUCTION, HAY BALE INLET PROTECTION SHALL BE PROVIDED AT ALL INLETS, BUT SHALL BE REMOVED FROM ROADWAYS AND DRIVEWAYS ONCE THE ROAD SUB-BASE COURSE HAS BEEN INSTALLED.
11. PERFORM NECESSARY GRADING FOR RETAINING WALLS, BUILDINGS, PARKING LOTS AND UTILITIES. SOIL MATERIALS SHALL BE STOCKPILED ONLY IN APPROVED AREAS, AND SHALL BE PROTECTED BY SILT FENCE BARRIERS. THROUGHOUT THE CONSTRUCTION PERIOD, TEMPORARY BERMS AND SWALES SHALL BE MAINTAINED, ALTERED, OR RE-LOCATED AS NECESSARY TO DIRECT RUNOFF FROM DISTURBED AREAS TO THE SEDIMENT TRAPS. ADDITIONAL SILT FENCE BARRIERS OR OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR AS NEEDED TO PREVENT EXCESSIVE EROSION OR SEDIMENTATION OF DOWNSTREAM AREAS.
12. INSTALL SANITARY SEWER, STORM DRAINAGE AND UTILITIES.
13. INSTALL CURBS AND BASE COURSE FOR THE ROADS.
14. RESTORE ANY EXISTING SITE FEATURES DISTURBED DURING CONSTRUCTION THAT WERE NOT PART OF THE ORIGINAL SCOPE.
15. THE CONSTRUCTION SHALL MAINTAIN ALL SEDIMENT AND EROSION CONTROL MEASURES IN PROPER CONDITION THROUGHOUT THE CONSTRUCTION PERIOD:
16. ALL CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS. IF A REPAIR IS NECESSARY, IT SHALL BE IMPLEMENTED WITHIN 24 HOURS OF REPORT.
17. BUILT-UP SEDIMENT SHALL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
18. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
19. TEMPORARY AND PERMANENT SEEDING PLANTINGS SHALL BE INSPECTED FOR BARE SPOTS, WASHOUT, AND HEALTHY GROWTH.
20. SEDIMENT SHALL BE REMOVED FROM SEDIMENT TRAPS ONCE IT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE BASIN. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA IN A MANNER SUCH THAT IT WILL NOT ERODE.
21. AS CONSTRUCTION PROCEEDS, ALL DISTURBED AREAS SHALL BE PLANTED OR SEEDED IN A TIMELY MANNER TO PREVENT UNNECESSARY EROSION. ONCE DISTURBED UPHILL AREAS HAVE BEEN PROPERLY STABILIZED, TEMPORARY BERMS, TEMPORARY SWALES, TEMPORARY SEDIMENT TRAPS, SILT FENCE BARRIERS, HAY BALES, CRUSHED STONE FILTER OUTLETS, ETC. SHALL BE REMOVED.
22. PERFORM FINAL GRADING, SOIL RESTORATION, AND SOIL DE-COMPACTION. SOIL RESTORATION AND DE-COMPACTION SHALL BE PERFORMED FOR ALL AREAS THAT WERE CUT, FILLED OR SUBJECT TO HEAVY VEHICLE TRAFFIC. SOIL RESTORATION AND DE-COMPACTION SHALL BE COMPLETED IN CONFORMANCE WITH THE NYSDEC PUBLICATION DEEP RIPPING AND DE-COMPACTION, 2008.
23. UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES, REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
24. PREPARE AS-BUILT AND POST CONSTRUCTION MEASURES AND PROCEDURES IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS.

NOTES:
1. STONE SIZE – USE 1 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCURS. TWENTY – FOUR (24) FOOT IF SINGLE ENTRANCE SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE, IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRES, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.

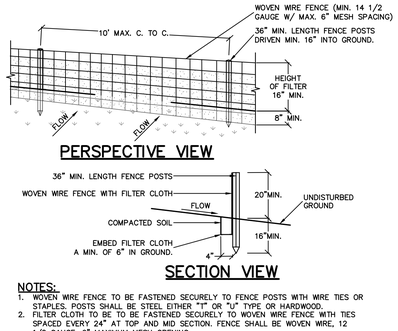
NOTE:
PROVIDE PROTECTION FOR TREES TO REMAIN WITHIN THE LIMIT OF DISTURBANCE

TREE PROTECTION DETAIL
N.T.S.



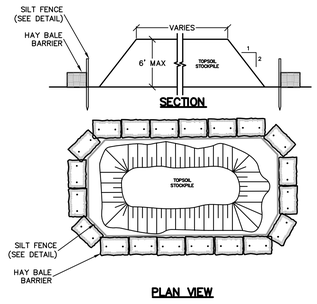
NOTES:
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85.
2. WOODEN FRAME SHALL BE CONSTRUCTED OF 2" X 4" CONSTRUCTION GRADE LUMBER.
3. WIRE MESH ACROSS THROAT SHALL BE A CONTINUOUS PIECE 30 INCH MINIMUM WIDTH WITH A LENGTH 4 FEET LONGER THAN THE THROAT. IT SHALL BE SHAPED AND SECURELY NAILED TO A 2" X 4"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

CURB INLET PROTECTION DETAIL
N.T.S.



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

SILT FENCE
N.T.S.



SOIL STOCKPILE SEDIMENT BARRIER
N.T.S.

REV	DESCRIPTION	BY	DATE
4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBSECTION 2.

Weston & Sampson

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PROJECT:
5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:
EROSION AND SEDIMENT CONTROL PLAN

STATE OF NEW YORK – BRIAN A. BROOKER – 60229 – LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROOKER,
PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'

GRAPHIC SCALE: 0 20' 40'

DATE: 04/04/23

DRAWING NO: 4

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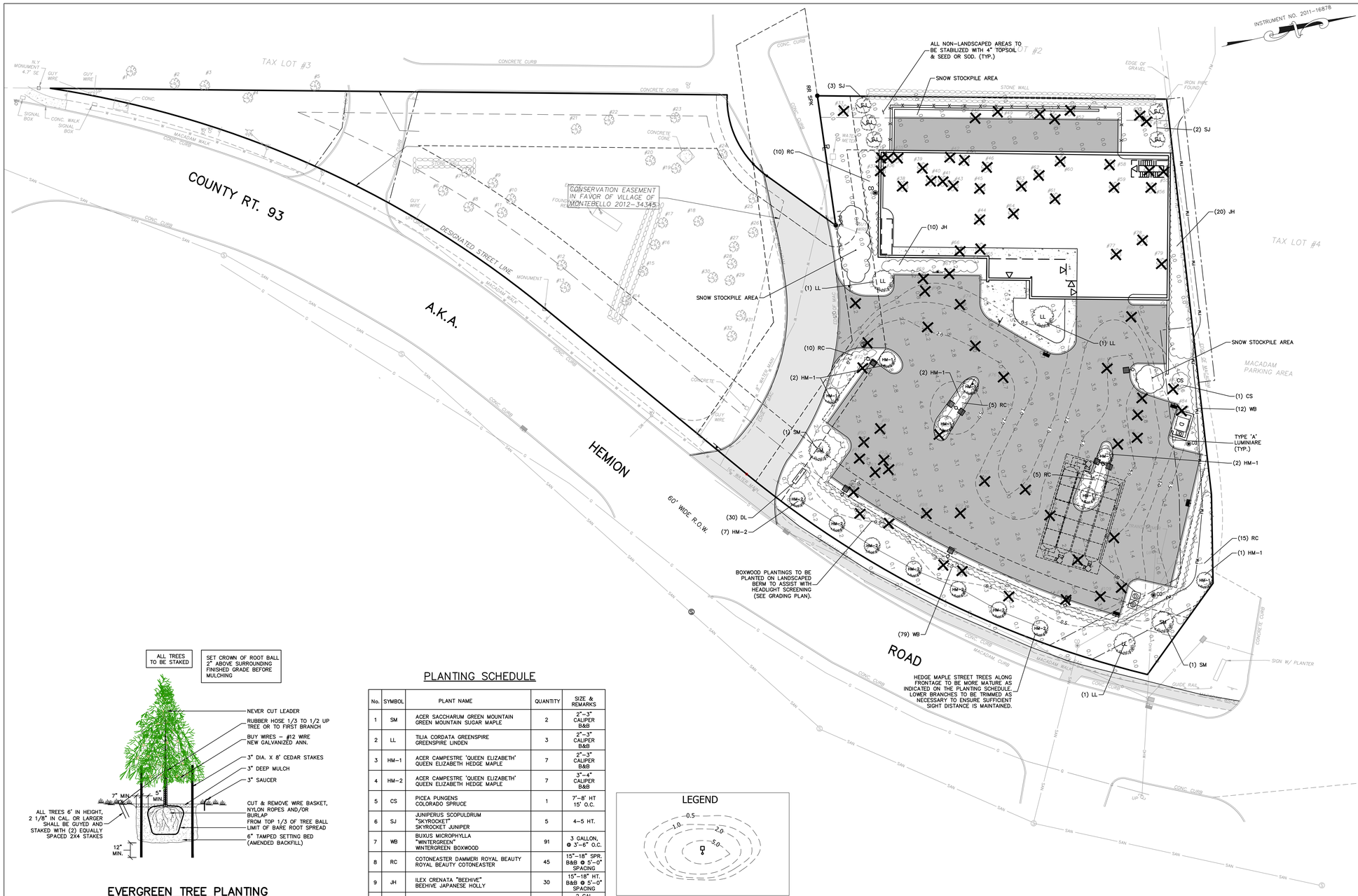


STANDARD VILLAGE LANDSCAPE NOTES:

1. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THAT WHICH EXISTED IN THE NURSERY.
2. ALL PLANTS SHALL BE ORIENTED AT THEIR PROPOSED LOCATION TO PRESENT THEIR BEST SIDE. THIS INSTALLATION SHALL BE CARRIED OUT UNDER THE SUPERVISION OF THE LANDSCAPE ARCHITECT.
3. MULCH ALL PLANT BEDS AND TREES WITH A THREE-INCH MINIMUM DEPTH OF WOODCHIPS, PINE BARK, PEAT MOSS, OR OTHER MULCH ACCEPTABLE TO THE VILLAGE'S LANDSCAPE CONSULTANT.
4. STAKE ALL TREES WITH TWO THREE-INCH-DIAMETER CEDAR STAKES 180° APART, REINFORCED RUBBER HOSE AROUND TREE (SIX FEET ZERO INCHES PLUS/MINUS ABOVE GRADE) AND TWISTED #10 GAUGE GALVANIZED WIRE WITH TURNBUCKLES. TREES LARGER THAN THREE-AND-ONE-HALF-INCH CALIPER SHALL BE STAKED WITH THREE STAKES EACH AT 120° APART.
5. PLANT PITS SHALL BE 18 INCHES WIDER AND SIX INCHES DEEPER THAN THE ROOT BALL AT A MINIMUM. REMOVE ALL EXISTING SOIL, LOOSEN SIDES OF PIT WITH PICK, AND BACKFILL WITH A MIXTURE OF ONE PART PEAT-HUMUS TO FOUR PARTS TOPSOIL. ADD APPROPRIATE QUANTITIES OF COMPLETE COMMERCIAL FERTILIZER (NITROGEN, PHOSPHORIC ACID, AND POTASH) AND BONEMEAL.
6. TREE TRUNKS SHALL BE WRAPPED WITH BURLAP, OR OTHER APPROVED WRAP, UP TO THE BOTTOM BRANCHES WITH 50% OVERLAP.
7. ALL PLANTS AND WORKMANSHIP SHALL BE UNCONDITIONALLY GUARANTEED FOR TWO FULL PLANTING SEASONS, OR ONE CALENDAR YEAR, WHICHEVER IS LONGER.
8. ALL PLANTS SHALL BE PRUNED BACK 1/4 TO 1/3 BRANCH LENGTHS IMMEDIATELY AFTER PLANTING, EXCEPT THAT MAIN LEADERS SHALL NOT BE CUT.
9. ALL PLANTING SHALL BE INSTALLED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL LANDSCAPE ARCHITECT. THE VILLAGE'S LANDSCAPE CONSULTANT SHALL BE NOTIFIED 48 HOURS PRIOR TO PLANTING.
10. PROVIDE THE VILLAGE BUILDING INSPECTOR AND VILLAGE LANDSCAPE CONSULTANT WITH A COPY OF THE STATE CERTIFICATE OF SOURCE FOR ALL PLANT MATERIAL.
11. ALL PLANT MATERIAL SHALL BE NURSERY GROWN AND SHALL CONFORM TO THE STANDARDS OF AMERICAN STANDARD FOR NURSERY STOCK, THE AMERICAN ASSOCIATION OF NURSERYMEN, LATEST EDITION.
12. NO PLANTS EXISTING ON THE SITE SHALL BE REMOVED, EXCEPT FOR THOSE SPECIFICALLY IDENTIFIED ON THE DRAWINGS FOR REMOVAL. TREES AND VEGETATED AREAS TO REMAIN SHALL BE PROTECTED WITH BRIGHTLY COLORED TEMPORARY FENCING LOCATED BEYOND THE DRIPLINES.
13. A LICENSED PROFESSIONAL LANDSCAPE ARCHITECT SHALL CERTIFY THAT THE PLANTINGS WERE COMPLETED IN ACCORDANCE WITH THE APPROVED PLAN, AND SUCH CERTIFICATION SHALL BE PROVIDED TO THE VILLAGE'S LANDSCAPE CONSULTANT PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
14. ALL LANDSCAPE INSTALLATIONS SHALL BE MAINTAINED ON A REGULAR BASIS, AND SHALL NOT BE ALLOWED TO TAKE ON AN UNSIGHTLY APPEARANCE (EXCEPT FOR NATURAL AREAS WHICH SHALL BE ALLOWED TO GROW NATURALLY WITH A MINIMUM OF MAINTENANCE).

TREE NUMBER	DIAMETER (INCHES)	SPECIES	CONDITION	ACTION
1	12	Cherry		TR
2	12	Cherry	Dead	TR
3	14 & 18	Ash		TR
4	20	Oak		TR
5	14	Maple		TR
6	8	Ash		TR
7	8	Ash		TR
8	12	Ash		TR
9	18	Ash		TR
10	12 & 16	Maple		TR
11	16	Ash		TR
12	10	Ash		TR
13	10	Ash	Dead	TR
14	16	Oak		TR
15	10 &12	Ash		TR
16	8	Maple		TR
17	8	Ash		TR
18	8	Ash		TR
19	8	Cherry		TR
20	8 & 8	Maple		TR
21	8	Ash		TR
22	8	Maple		TR
23	8,8,14	Maple		TR
24	14	Maple	Dead	TR
25	18	Oak		TR
26	8 & 10	Maple		TR
27	18	Maple		TR
28	8	Ash		TR
29	8	Oak		TR
30	8	Maple		TR
31	8	Cherry		TR
32	8	Maple		TR
33	10	Cedar		TBR
34	12 & 12	Birch		TBR
35	20	Ash		TBR
36	12	Ash		TBR
37	10	Birch		TBR
38	22	Ash		TBR
39	10	Birch		TBR
40	8	Ash		TBR
41	8	Birch	Dead	TBR
42	22	Oak		TBR
43	8	Ash		TBR
44	16	Oak		TBR
45	8 & 12	Ash		TBR
46	10	Ash		TBR
47	10	Ash		TBR
48	8	Oak		TBR
49	26	Oak		TBR
50	12	Ash		TBR
51	18	Ash		TBR
52	14	Ash		TBR
53	10	Birch		TBR
54	10	Maple		TBR
55	10	Maple		TBR

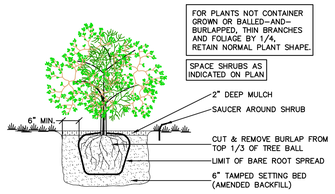
TREE NUMBER	DIAMETER (INCHES)	SPECIES	CONDITION	ACTION
56	14	Birch		TBR
57	10	Ash		TBR
58	36	Oak		TBR
59	22	Maple		TBR
60	8 &12	Oak		TBR
61	14	Maple		TBR
62	8	Birch		TBR
63	14	Cherry		TBR
64	14	Cherry		TBR
65	8	Ash		TBR
66	8	Ash		TBR
67	16	Cherry		TBR
68	20	Oak		TBR
69	14	Maple		TBR
70	12 & 12	Catalpa		TBR
71	8	Ash		TBR
72	8 & 8	Aspen		TBR
73	8	Maple		TBR
74	12	Maple		TBR
75	14 & 14	Maple		TBR
76	8	Ash		TBR
77	16	Maple		TBR
78	10	Maple		TBR
79	8	Ash		TBR
80	28	Ash		TBR
81	12	Maple		TBR
82	10	Ash		TBR
83	8	Maple	Dead	TBR
84	12 & 14	Maple		TBR
85	10	Cedar		TBR
86	10	Ash		TBR
87	12	Cherry		TBR
88	8 & 10	Ash	Dead	TBR
89	14 & 14	Maple		TBR
90	10	Ash		TBR
91	8	Ash		TBR
92	10	Maple		TBR
93	8	Ash		TBR
94	14	Maple		TBR
95	10	Maple		TBR
96	12	Cherry		TBR
97	26	Ash		TBR
98	24	Ash		TBR
99	8	Ash		TBR
100	8 & 8	Aspen		TBR
101	8	Maple		TBR
102	8	Cherry	Dead	TBR
103	8	Ash		TBR
104	16	Maple		TBR
105	8	Cedar		TBR
106	8	Oak		TBR
107	10	Maple		TBR
108	16	Oak		TBR
109	12	Ash		TBR
110	12	Maple		TBR

EVERGREEN TREE PLANTING
N.T.S.

PLANTING SCHEDULE

No.	SYMBOL	PLANT NAME	QUANTITY	SIZE & REMARKS
1	SM	ACER SACCHARUM GREEN MOUNTAIN GREEN MOUNTAIN SUGAR MAPLE	2	2"-3" CALIPER B&B
2	LL	TILIA CORDATA GREENSPIRE GREENSPIRE LINDEN	3	2"-3" CALIPER B&B
3	HM-1	ACER CAMPESTRE 'QUEEN ELIZABETH' QUEEN ELIZABETH HEDGE MAPLE	7	2"-3" CALIPER B&B
4	HM-2	ACER CAMPESTRE 'QUEEN ELIZABETH' QUEEN ELIZABETH HEDGE MAPLE	7	3"-4" CALIPER B&B
5	CS	PICEA PUNGENS COLORADO SPRUCE	1	7'-8' HT 15' O.C.
6	SJ	JUNIPERUS SCOPULORUM "SKYROCKET" SKYROCKET JUNIPER	5	4-5 HT.
7	WB	BUXUS MICROPHYLLA "WINTERGREEN" WINTERGREEN BOXWOOD	91	3 GALLON, @ 3'-6" O.C.
8	RC	COTONEASTER DAMMERI ROYAL BEAUTY ROYAL BEAUTY COTONEASTER	45	15"-18" SPR. B&B @ 5'-0" SPACING
9	JH	ILEX CRENATA "BEEHIVE" BEEHIVE JAPANESE HOLLY	30	15"-18" HT. B&B @ 5'-0" SPACING
10	DL	HEMEROCALLIS FULVA ORANGE DAYLILLY	30	2 GAL @ 1'-6" TO 2'-0" SPACING

LEGEND



SHRUB PLANTING
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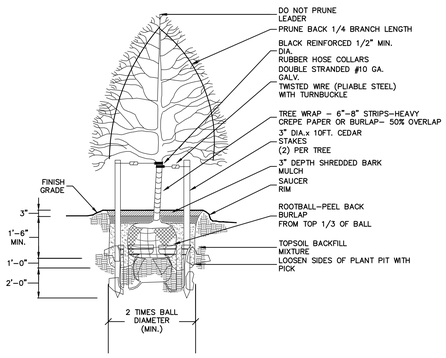
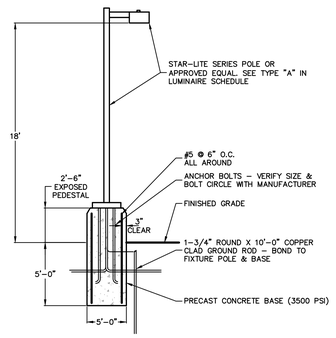


DECIDUOUS TREE PLANTING
N.T.S.



LUMINAIRE DETAIL
N.T.S.

LIGHTING NOTE:

1. ALL LIGHTING SHOWN ON THIS PLAN SHALL BE DIRECTED OR SHIELDED SO AS TO PRECLUDE OBJECTIONABLE GLARE FROM BEING OBSERVABLE FROM ADJOINING STREETS AND PROPERTIES.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FIXTURES, BASES, CONDUIT AND WIRING FOR THE APPROVAL OF THE ENGINEER.
3. LIGHT TEMPERATURES SHALL NOT EXCEED 3000K.

LUMINAIRE SCHEDULE

SYMBOL	TAG	QUANTITY	LABEL	DESCRIPTION	ARRANGEMENT	MANUFACTURER	COLOR TEMP.	BUG RATING	MOUNTED HEIGHT (FEET)
	A	5	DSXWPM LED Area Luminaire	DSXWPM LED 20C 1000mA 30K T2S MVOLT HS	SINGLE POLE MOUNTED W/ HOUSE SHIELD	LITHONIA LIGHTING	3000K	B1 - U0 - G1	16
	B	2	DSXWPM LED Area Luminaire	DSXWPM LED 20C 1000mA 30K T2S MVOLT HS	SINGLE POLE MOUNTED W/ HOUSE SHIELD	LITHONIA LIGHTING	3000K	B1 - U0 - G1	16

REV	DESCRIPTION	BY	DATE
4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

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www.westonandsampson.com

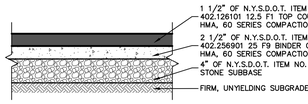
PROJECT:
5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:
LANDSCAPING & LIGHTING PLAN

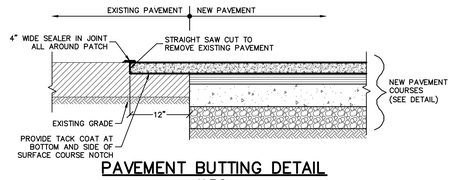
BRIAN A. BROOKER, PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'
GRAPHIC SCALE: 0 20' 40'
DATE: 04/04/23
DRAWING NO: 5



PARKING LOT PAVEMENT SECTION
N.T.S.



PAVEMENT BUTTING DETAIL
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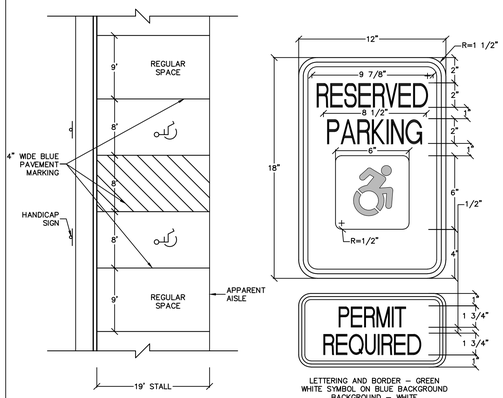
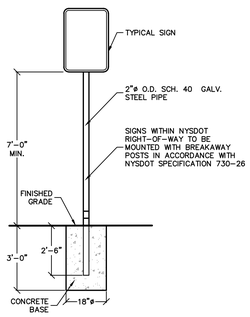
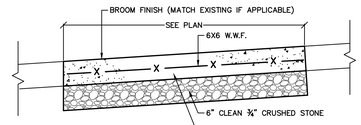


HANDICAPPED PARKING SPACE DESIGN STANDARDS
N.T.S.

SIGN FOR PARKING SPACE FOR THE HANDICAPPED
N.T.S.

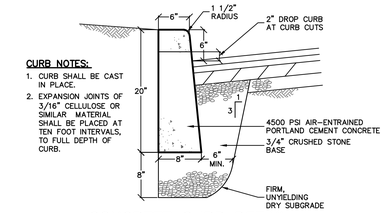


TYPICAL SIGN MOUNTING DETAIL
N.T.S.



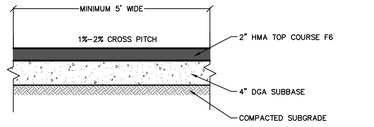
CONCRETE SIDEWALK NOTES
1. FULL DEPTH TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED EVERY 18–20 FEET.
2. CONCRETE SURFACE SHALL BE SCORED AND TOOLED EVERY 5 FEET.
3. ALL EDGES SHALL BE FINISHED WITH AN EDGING TOOL WITH A RADIUS OF 1/4 INCH.
4. A 3/4 INCH BITUMINOUS JOINT FILLER SHALL BE PLACED AT ALL JOINTS BETWEEN SIDEWALK, CURB, PAVEMENT, BUILDING, ETC.
5. THE CONCRETE SHALL BE FINISHED TO PRODUCE A SMOOTH FINISH AND THEN LIGHTLY BROOMED TO A UNIFORM TEXTURE.
6. A CLEAR MEMBRANE CURING COMPOUND SHALL BE USED UPON COMPLETION OF FINISHING.
7. ALL SIDEWALKS SHALL ADHERE TO ADA GUIDELINES.

CONCRETE SIDEWALK DETAIL
N.T.S.

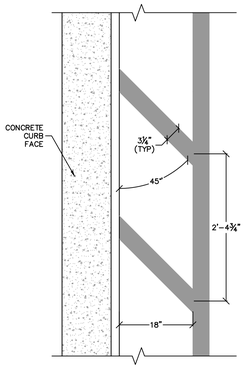


CURB NOTES:
1. CURB SHALL BE CAST IN PLACE.
2. EXPANSION JOINTS OF 3/16" CELLULOSE OR SIMILAR MATERIAL SHALL BE PLACED AT TEN FOOT INTERVALS, TO FULL DEPTH OF CURB.

CONCRETE CURB DETAIL
N.T.S.

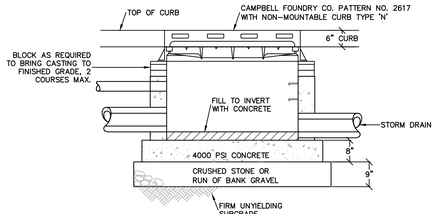


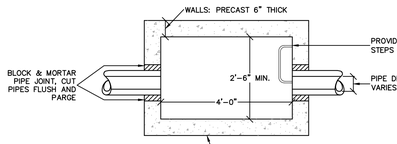
TYPICAL MACADAM SIDEWALK SECTION DETAIL
N.T.S.



NOTE:
PAINT STRIPES WITH BRIGHT YELLOW EXTERIOR GRADE ROADWAY PAINT

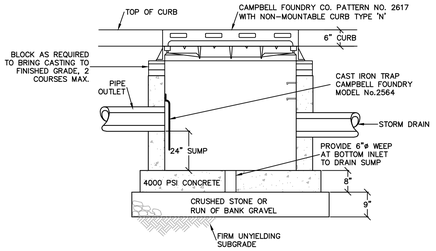
FIRE ZONE STRIPING
N.T.S.





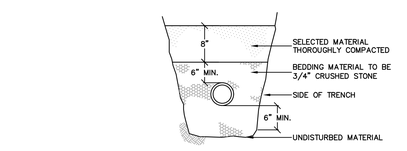
NOTE:
MINIMUM STRENGTH CONCRETE 4000 PSI WALL THICKNESS 6" WITH ADEQUATE STEEL REINFORCEMENT TO WITHSTAND H20 HIGHWAY LOAD AND SOIL LOADS.

CATCH BASIN DETAIL
N.T.S.

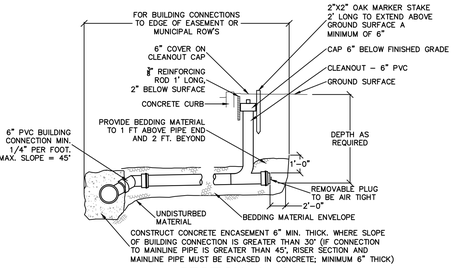


NOTE:
MINIMUM STRENGTH CONCRETE 4000 PSI WALL THICKNESS 6" WITH ADEQUATE STEEL REINFORCEMENT TO WITHSTAND H20 HIGHWAY LOAD AND SOIL LOADS.

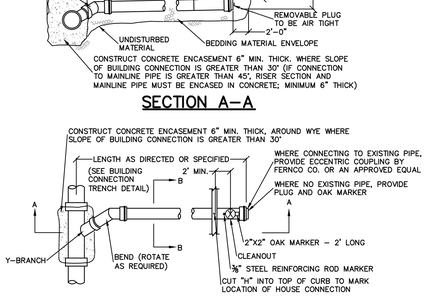
CATCH BASIN W/ SUMP DETAIL
N.T.S.



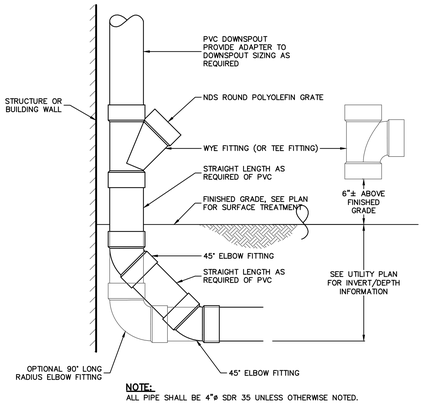
SECTION B–B



SECTION A–A

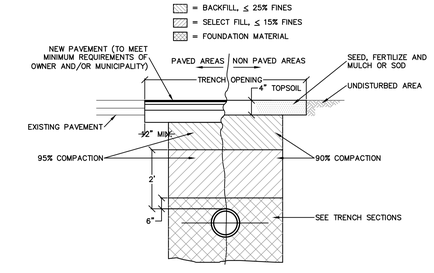


PLAN
BUILDING CONNECTION DETAILS
N.T.S.

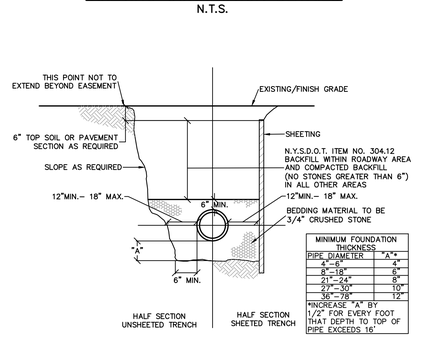


NOTE:
ALL PIPE SHALL BE 4"ø SDR 35 UNLESS OTHERWSE NOTED.

ROOF LEADER CLEANOUT DETAIL
N.T.S.



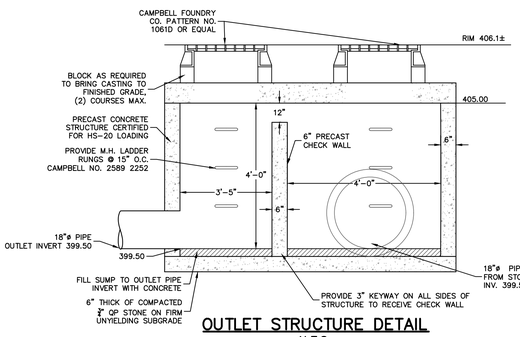
PIPE TRENCH BACKFILL DETAIL
N.T.S.



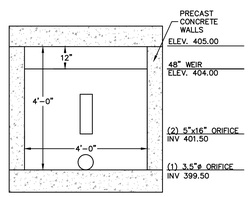
MINIMUM FOUNDATION THICKNESS	
PIPE DIAMETER	"A"*
4"–6"	4"
8"–18"	6"
21"–24"	8"
27"–30"	10"
36"–78"	12"

*INCREASE "A" BY 1/2" FOR EVERY FOOT THAT DEPTH TO TOP OF PIPE EXCEEDS 16'

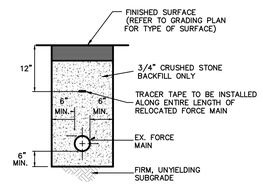
SANITARY TRENCH IN EARTH DETAIL
N.T.S.



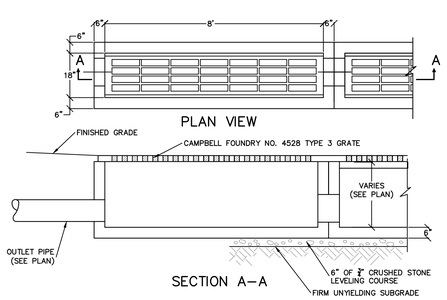
OUTLET STRUCTURE DETAIL
N.T.S.



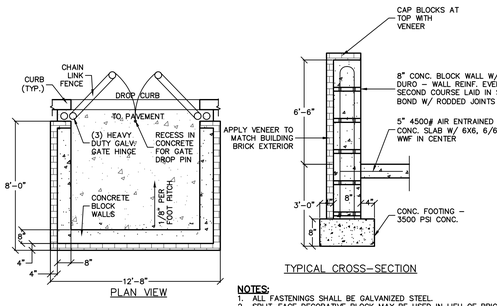
CHECK WALL DETAIL
N.T.S.



FORCE MAIN TRENCH DETAIL
N.T.S.

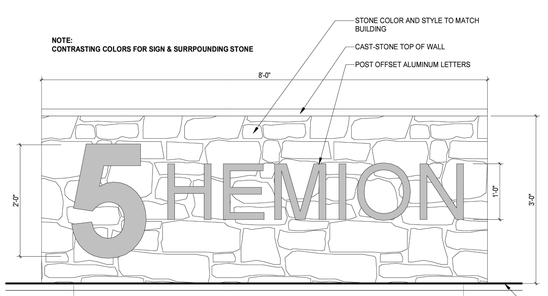


TRENCH DRAIN
N.T.S.

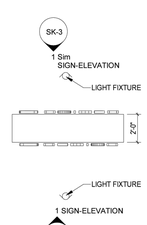


NOTES:
1. ALL FASTENINGS SHALL BE GALVANIZED STEEL.
2. SPLIT–FACE DECORATIVE BLOCK MAY BE USED IN LIEU OF BRICK–BLOCK COMBINATION. ARCHITECT SHALL APPROVE SAMPLE OF SPLIT–FACE BLOCK

REFUSE CONTAINMENT STRUCTURE DETAILS
N.T.S.



SIGN–ELEVATION
1" = 1'-0"



SIGN–PLAN
1/4" = 1'-0"

SITE SIGN

SK-3

4	RE–APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23
REV	DESCRIPTION	BY	DATE

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBSECTION 2.

Weston & Sampson

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Suffern, NY 10901
845.357.4411 800.SAMPSON
www.westonandsampson.com

PROJECT:

5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:

DETAIL SHEET

STATE OF NEW YORK – BRIAN A. BROCKER – 60229 – LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROCKER, PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

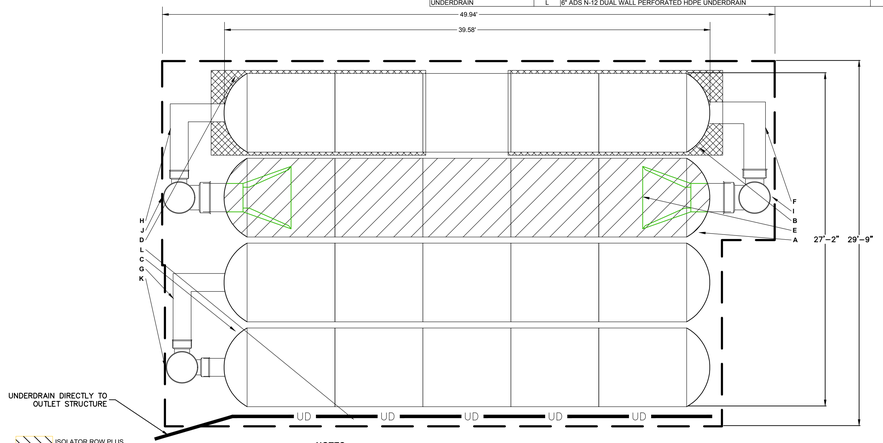
PROJECT NO:	DRAWN:	CHECKED:
ENG23–1240	AP	MT
SCALE: N.T.S.		
GRAPHIC SCALE:		
DATE: 04/04/23	DRAWING NO: 6	

R:\BBE\181823\7_Dwg\REV 7 2023 SITE PLAN\HEMION SITE PLAN.dwg, 12/1/2025 12:43:58 PM, Polcari Sasha

PROPOSED LAYOUT		PROPOSED ELEVATIONS	
20	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	412.00
8	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	408.00
12	STONE ABOVE (in)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	405.50
9	STONE BELOW (in)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	405.50
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	405.50
4511	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)	TOP OF STONE:	405.00
		TOP OF MC-3500 CHAMBER:	404.00
		15" x 15" TOP MANIFOLD INVERT:	402.20
		18" x 18" TOP MANIFOLD INVERT:	401.92
1418	SYSTEM AREA (SF)	24" ISOLATOR ROW PLUS INVERT:	400.42
159.4	SYSTEM PERIMETER (ft)	24" ISOLATOR ROW PLUS INVERT:	400.42
		15" x 15" BOTTOM MANIFOLD INVERT:	400.38
		15" BOTTOM CONNECTION INVERT:	400.38
		BOTTOM OF MC-3500 CHAMBER:	400.28
		UNDERDRAIN INVERT:	399.50
		BOTTOM OF STONE:	399.50

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"	
PREFABRICATED END CAP	B	18" TOP CORED END CAP, PART#: MC3500IEPP18TC / TYP OF ALL 18" TOP CONNECTIONS	20.03"	
PREFABRICATED END CAP	C	15" BOTTOM CORED END CAP, PART#: MC3000IEPP15B / TYP OF ALL 15" BOTTOM CONNECTIONS	1.50"	
PREFABRICATED END CAP	D	15" TOP CORED END CAP, PART#: MC3500IEPP15T / TYP OF ALL 15" TOP CONNECTIONS	23.39"	
FLAMP	E	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MC350024RAMP (TYP 2 PLACES)		
MANIFOLD	F	18" x 18" TOP MANIFOLD, ADS N-12	20.03"	
MANIFOLD	G	15" x 15" BOTTOM MANIFOLD, ADS N-12	1.50"	
MANIFOLD	H	15" x 15" TOP MANIFOLD, ADS N-12	23.39"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	I	30" DIAMETER (24.00" SUMP MIN)		5.5 CFS IN
NYLOPLAST (INLET W/ ISO PLUS ROW)	J	30" DIAMETER (24.00" SUMP MIN)		3.5 CFS IN
NYLOPLAST (OUTLET)	K	30" DIAMETER (DESIGN BY ENGINEER)		5.4 CFS OUT
UNDERDRAIN	L	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		



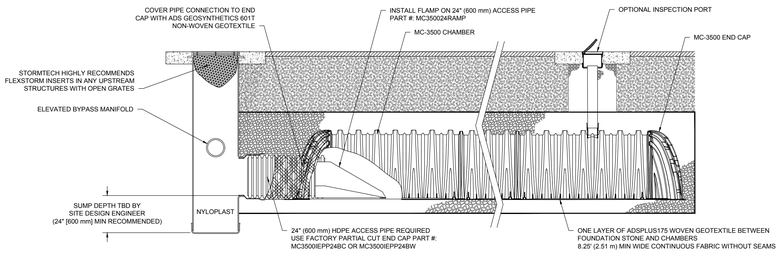
ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS175 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

Perimeter

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

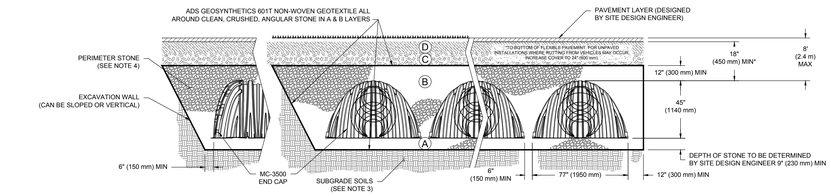


MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 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 SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	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 ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145* A-1, A-2-4, A-3 OR AASHTO M43* 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43* 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43* 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. 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.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. 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.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. 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, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/% THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. 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 PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

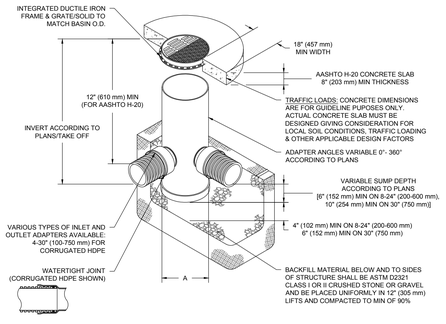
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. 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.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

NYLOPLAST DRAIN BASIN
NTS

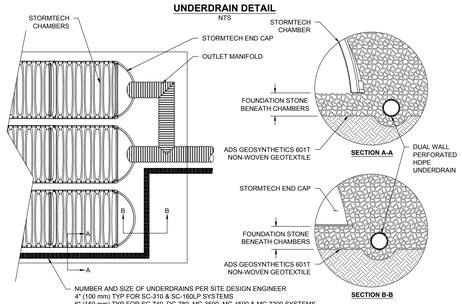


NOTES

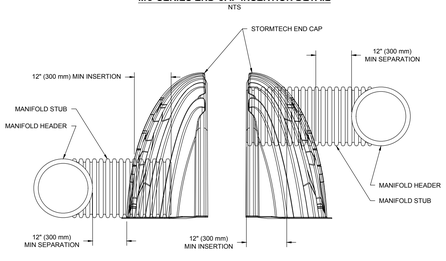
1. 8-30" (200-750 mm) GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
2. 12-30" (300-750 mm) FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS & HANCOR DUAL WALL) & SDR 35 PVC
5. FOR COMPLETE DESIGN AND PRODUCT INFORMATION: **WWW.NYLOPLAST-US.COM**
6. TO ORDER CALL: **800-821-6710**

A	PART #	GRATE/SOLID COVER OPTIONS		
8" (200 mm)	2808AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
10" (250 mm)	2810AG	PEDESTRIAN LIGHT DUTY	STANDARD LIGHT DUTY	SOLID LIGHT DUTY
12" (300 mm)	2812AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
15" (375 mm)	2815AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
18" (450 mm)	2818AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
24" (600 mm)	2824AG	PEDESTRIAN AASHTO H-10	STANDARD AASHTO H-20	SOLID AASHTO H-20
30" (750 mm)	2830AG	PEDESTRIAN AASHTO H-20	STANDARD AASHTO H-20	SOLID AASHTO H-20

UNDERDRAIN DETAIL
NTS

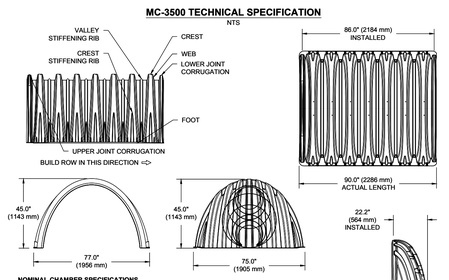


MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

MC-3500 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

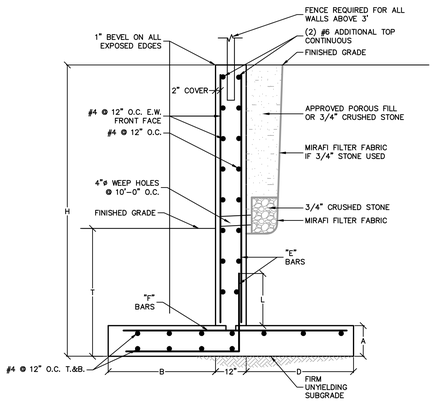
*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

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"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.66" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.48" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.



T	H	B	D	"E"–BARS	"F"–BARS	A	L
3'–6"	5'–0"	3'–9"	–	#4 @ 12" O.C.	#4 @ 12" O.C.	1'–0"	1'–6"
3'–6"	6'–0"	4'–9"	–	#4 @ 10" O.C.	#4 @ 12" O.C.	1'–0"	1'–6"
3'–6"	7'–0"	5'–6"	–	#5 @ 12" O.C.	#4 @ 12" O.C.	1'–0"	2'–0"
3'–6"	8'–0"	6'–6"	–	#5 @ 10" O.C.	#4 @ 12" O.C.	1'–0"	2'–0"
3'–6"	9'–0"	6'–6"	1'–0"	#6 @ 12" O.C.	#4 @ 12" O.C.	1'–0"	2'–6"
3'–9"	10'–0"	6'–6"	1'–0"	#6 @ 10" O.C.	#5 @ 12" O.C.	1'–0"	2'–6"
4'–3"	11'–0"	7'–6"	1'–0"	#8 @ 12" O.C.	#5 @ 12" O.C.	1'–0"	2'–6"
4'–6"	12'–0"	9'–3"	1'–0"	#8 @ 8" O.C.	#5 @ 10" O.C.	1'–0"	3'–0"

NOTES:

1. FINAL DESIGN IS SUBJECT TO REVISION OR AMENDMENT BY A PROFESSIONAL ENGINEER BASED ON FIELD CONDITIONS AND INTEGRITY OF EXISTING ROCK AND SOIL PROFILE.
2. WALL CONSTRUCTION METHODOLOGY AND MATERIAL MAY BE SUBSTITUTED FOR THE CONCRETE WALL DESIGN SHOWN, SUBJECT TO DESIGN AND CERTIFICATION BY A NYS LICENSED PROFESSIONAL ENGINEER.
3. WALLS IN PARKING AREAS SHALL BE INSTALLED WITH A GUIDERAIL AND CONCRETE PARKING BLOCK. IN ADDITION, THE TOP OF WALL ELEVATION SHALL BE RAISED BY ONE FOOT ABOVE FINISHED GRADE.
4. SOIL ENGINEER SHALL PERFORM SUBGRADE INSPECTION AS PER NYS CODE CHAPTER 17 TO VERIFY THE FOLLOWING DESIGN CRITERIA:
   γ= 110 PCF, Φ= 28°, μ= 0.50, q_a= 3000 PSF

TYPICAL CONCRETE RETAINING WALL
N.T.S.

REV	DESCRIPTION	BY	DATE
4	RE–APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 7209, SUBSECTION 2.

Weston & Sampson

Weston & Sampson PE, LS, LA, Architects, PC
74 Lafayette Ave, Suite 501
Suffern, NY 10901
845.357.4411 800.SAMPSON
www.westonandsampson.com

PROJECT:
5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:
DETAIL SHEET

STATE OF NEW YORK — BRIAN A. BROOKER — 60229 — LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROOKER, PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23–1240	AP	MT
SCALE: N.T.S.		
GRAPHIC SCALE:		
DATE: 04/04/23	DRAWING NO: 7	

NOTES:

1. UNAUTHORIZED ALTERNATION OR ADDITION TO SURVEY MAP BEARING A LICENSED LAND SURVEYORS SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.
2. GUARANTEES OR CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.
3. EASEMENTS OR RIGHT-OF-WAYS ON OR BELOW THE SURFACE OF THE GROUND WHICH ARE NOT VISIBLE ARE NOT SHOWN OR CERTIFIED TO.
4. COPIES OF THE LAND SURVEY NOT HAVING THE EMBOSSED SEAL OF LAND SURVEYOR SHALL NOT BE VALID.
5. DATUM: NAVD 88

TAX MAP REFERENCE:

TAX LOT:
SECTION 55.10 BLOCK 1 LOT 52

REFERENCES:

1. INSTRUMENT NO. 2011-16878.
2. SANITARY SEWER EASEMENT INSTRUMENT NO. 1997-27617.
3. EMERGENCY ACCESS & UTILITY EASEMENT NO. 1997-27617.
4. UTILITY & ACCESS EASEMENT 4 LIBER 133 PAGE 1006.
5. CONSERVATION EASEMENT INSTRUMENT NO. 2012-34345.
6. INGRESS / EGRESS EASEMENT INSTRUMENT NO.2012-34343.

AREA = 63,382.95 SQ. FT. = 1.570 ACRES

REV	DESCRIPTION	BY	DATE

DISCLAIMER:
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74 Lafayette Avenue, Suite 501	22 Paris Avenue, Suite 105
Suffern, NY 10901	Rockleigh, NJ 07647
(845) 357-4411	(201) 684-1221

PROJECT:

5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:

EXISTING CONDITIONS SURVEY

JOHN J. BEZUYEN, P.L.S.
PROFESSIONAL LAND SURVEYOR
N.Y.S. Lic. No. 50793

PROJECT NO:	DRAWN:	CHECKED:
18237	HL	JB

SCALE: 1" = 20'

GRAPHIC SCALE: 0 20' 40'

DATE:	DRAWING NO:
2/22/23	8

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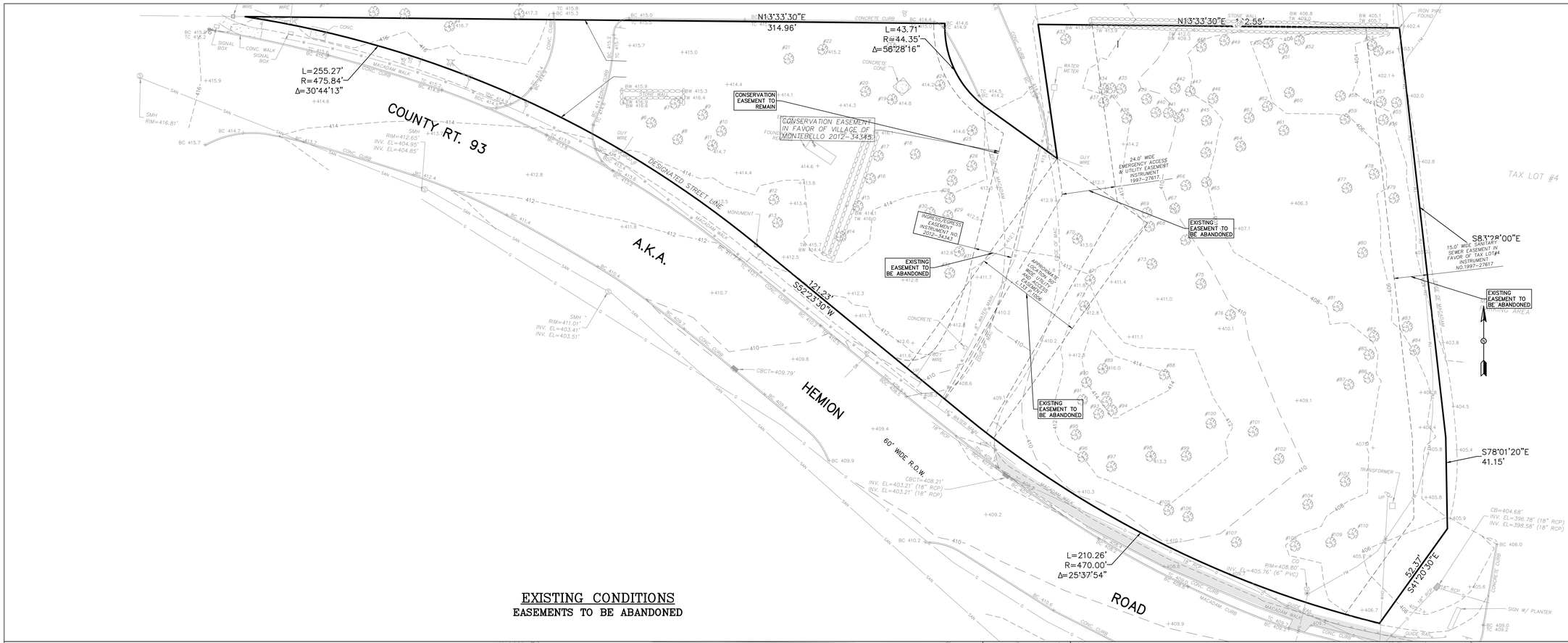
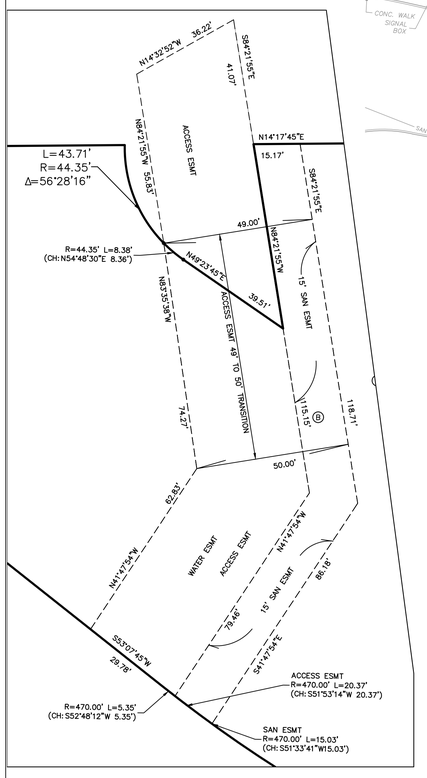
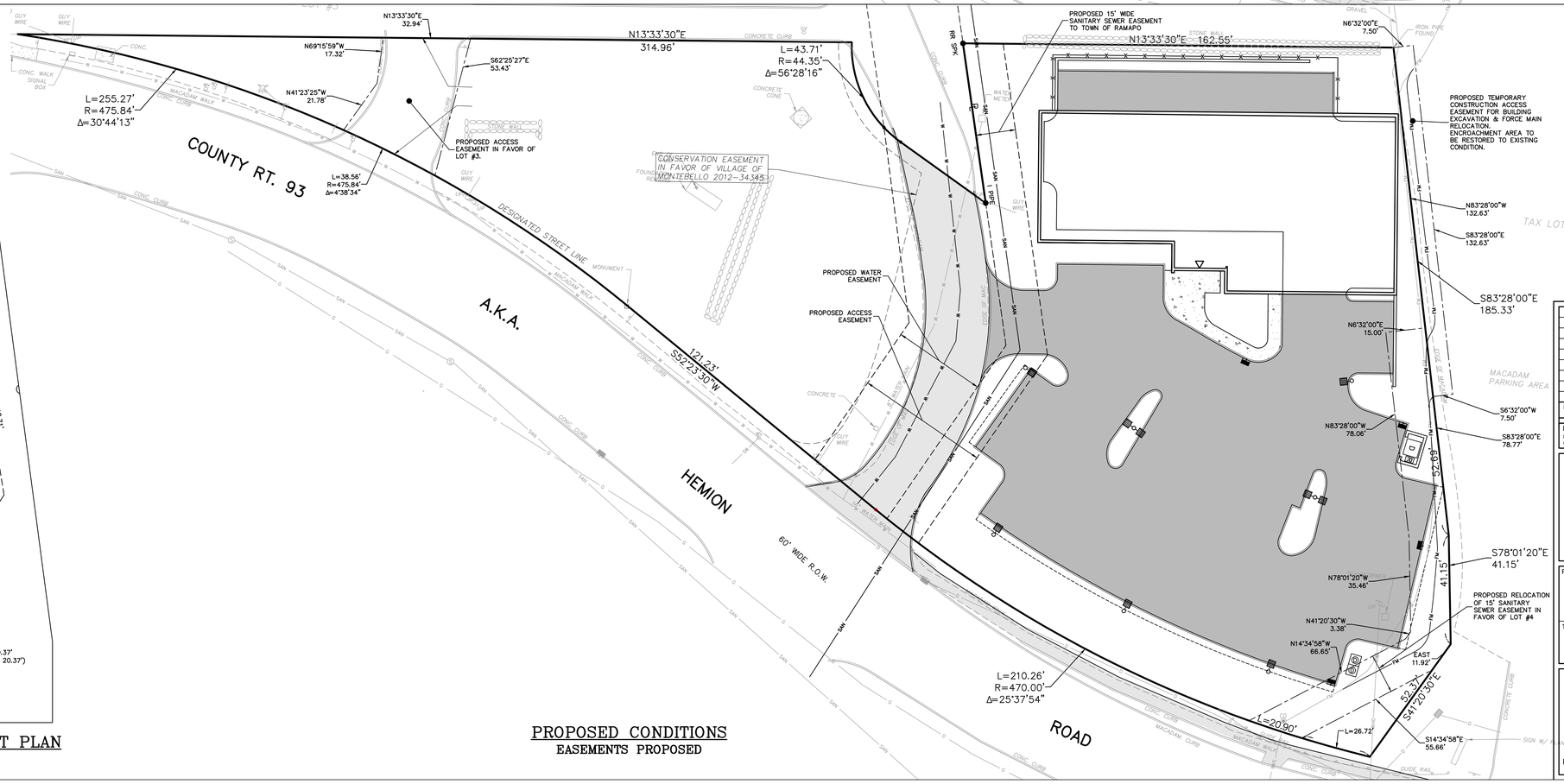


EXISTING CONDITIONS
EASEMENTS TO BE ABANDONED



PROPOSED EASEMENTS PART PLAN



PROPOSED CONDITIONS
EASEMENTS PROPOSED

REV	DESCRIPTION	BY	DATE
4	RE-APPLICATION	AP	12/01/25
3	AS PER PB & GML COMMENTS	MT	07/13/23
2	AS PER CDRC COMMENTS	MT	06/05/23
1	AS PER CDRC COMMENTS	MT	05/18/23

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PROJECT:

5 HEMION ROAD
VILLAGE OF MONTEBELLO
ROCKLAND COUNTY
NEW YORK

TITLE:

EASEMENT MAP

STATE OF NEW YORK · BRIAN A. BROOKER · 60229 · LICENSED PROFESSIONAL ENGINEER

BRIAN A. BROOKER,
PROFESSIONAL ENGINEER
N.Y.S. Lic. No. 60229

PROJECT NO:	DRAWN:	CHECKED:
ENG23-1240	AP	MT

SCALE: 1" = 20'

GRAPHIC SCALE: 0 20' 40'

DATE: 04/04/23

DRAWING NO: 9

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