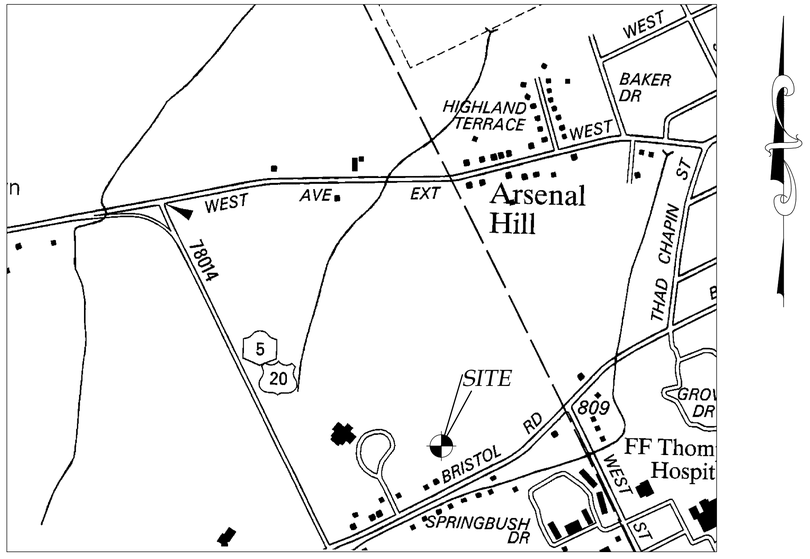
SUBDIVISION & SITE PLANS FOR:

WILLIAM METROSE, LTD

10-LOT RESIDENTIAL CONSERVATION SUBDIVISION

5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

MARCH 31, 2022



LOCATION MAP
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PREPARED FOR:
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REVISIONS:

STATE OF NEW YORK
BRENNAN A MARKS
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LICENSED PROFESSIONAL ENGINEER

NOT FOR CONSTRUCTION

WILLIAM METROSE, LTD
BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
NEW YORK
JOB #19-094
3/31/2022

UTILITY NOTES:

1. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING SERVICE AND COORDINATE ALL WORK W/ UTILITY PROVIDERS. RELOCATE WATER AND SANITARY PIPING AS REQUIRED.
2. ELEC SERVICE AND COMMUNICATION SHALL MEET CURRENT NATIONAL ELECTRIC CODE.
3. SAFTEY BACKFILL ALL UTILITIES WITH CLEAN EXCAVATED SOIL. ENCASE IN 12" OF SAND IN SOIL CONTAINING STONES OR BEDROCK

GRADING NOTES:

1. CUT AND FILL SLOPES SHALL NOT EXCEED 3 ON 1.
2. CONSTRUCTION SHALL CONFORM TO THE TOWN OF CANANDAIGUA AND NYS CODES AND STANDARDS
3. SITE SHALL BE GRADED SUCH THAT THERE IS POSITIVE DRAINAGE AT A MINIMUM OF 2% AWAY FROM ANY BUILDINGS, STRUCTURES, DRIVEWAYS, AND SEPTIC SYSTEM.
4. TOPSOIL SHALL BE STRIPED OF AREAS PLANNED FOR CONSTRUCTION AND REAPPLIED AFTER GRADING IS FINISHED. ANY UNUSED TOPSOIL SHALL BE HAULED OFF SITE.

CONSTRUCTION SEQUENCE:

1. INSTALL SILT FENCE, STABILIZED CONSTRUCTION ENTRANCE, SEDIMENT TRAP AND OTHER TEMPORARY CONTROLS.
2. INFILTRATION BASIN AREA TO BE ENCOMPASSED BY SILT FENCE AND ORANGE CONSTRUCTION FENCING UNTIL CONTRIBUTING DRAINAGE AREAS HAVE ACHIEVED FINAL STABILIZATION.
3. STRIP AND STOCKPILE TOPSOIL
4. EXCAVATE FOUNDATION AND ROUGH GRADE SITE.
5. BUILD FOUNDATION AND STRUCTURES
6. INSTALL UTILITIES
7. BACKFILL FOUNDATION
8. RESPREAD TOPSOIL AROUND HOUSE, FINAL GRADE SEE AND MULCH
9. REMOVE TEMPORARY CONTROLS AFTER SITE STABILIZED WITH VEGETATION.

EROSION AND SEDIMENT CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION DURING CONSTRUCTION. SILT FENCE SHALL BE INSTALLED AND MAINTAINED AS NEEDED.
2. SOIL DISTURBANCES SHALL BE STABILIZED IMMEDIATELY. DISTURBED SOIL THAT WILL REMAIN LONGER THAN 14 DAYS SHALL BE TEMPORARILY STABILIZED WITHIN 7 DAYS. SOIL SHALL BE STABILIZED WITH NORTHERN GRASS SEED MIXTURE OR APPROPRIATE SEED MIXTURE FOR CONDITIONS. GRASS SEED SHALL BE INSTALLED PER MANUFACTURES SPECIFICATIONS. MULCH STRAW APPLIED AT A RATE OF 2 BALES / 1000 SQFT OR SEED MIXTURE TO PROTECT SITE UNTIL SEED GERMINATES. HYDRO-SEED MAY BE INSTALLED AS AN ALTERNATE.
3. CONTRACTOR SHALL INSPECT THE SITE DAILY FOR SIGNS OF EROSION. IF ANY EROSION OR SEDIMENTATION OCCUR CONTRACTOR SHALL IMMEDIATELY PROVIDE PROPER CONTROLS TO STABILIZE THE SITE. ENGINEER WILL RECOMMEND CONTROLS IF REQUIRED.
4. SLOPE GREATER THAN 4 ON 1 SHALL BE STABILIZED WITH JUTE FABRIC INSTALLED AS PER MANUFACTURES SPECIFICATIONS AS REQUIRED.
5. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN STALLED IN ACCORDANCE WITH NYS STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENTATION CONTROLS.
6. INSTALL AND MAINTAIN TEMPORARY DIVERSION SWALES AS NEEDED TO CONTROL RUNOFF DURING CONSTRUCTION.
7. THE SITE SHALL BE COMPLETELY STABILIZED FOLLOWING CONSTRUCTION ACTIVITIES AND ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE REMOVED AND DISPOSED OF PROPERLY.
8. CONCRETE TRUCK SHALL BE WASHED OUT INTO A SEALED CONTAINER OR DIKED AREA TO PREVENT CONTAMINANTS FROM DISCHARGING TO SURFACE WATERS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ALL UTILITIES AND PROPERTY MARKERS. IT IS THE NYS LAW TO CALL NYS DIG SAFE FOR UFPO (811) PRIOR TO ANY EXCAVATION.
2. THE ROADWAY SHALL BE KEPT FREE OF DEBRIS DURING CONSTRUCTION.
3. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY CONTROL DEVICES. SUCH DEVICES (BARRICADES, FENCING, ETC.) SHALL BE IMPLEMENTED TO MINIMIZE RISK OF INJURY TO PEDESTRIANS AND WORKERS. CONSTRUCTION ACTIVITY SHALL BE CONDUCTED WITHIN COMPLIANCE WITH OSHA GUIDELINES.
4. PLANS ARE GRAPHIC REPRESENTATIONS OF WORK TO BE PERFORMED. THESE PLANS ARE TO INTENDED TO CONVEY ENGINEERING INFORMATION ONLY.
5. CONTRACTOR TO VERIFY ALL LOCATIONS, GRADES AND INVERTS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
6. ALL SPECIFIED MATERIALS ARE TO BE INSTALLED AS PER MANUFACTURES RECOMMENDATIONS OR INDUSTRY STANDARD.
7. ANY SYSTEM MODIFICATIONS OR DEVIATIONS FROM THE APPROVED PLANS, NYS BUILDING CODES, AND/OR LOCAL REGULATIONS REQUIRED BY SITE CONSTRAINTS, UNFORESEEN CONDITIONS OR GOVERNING AUTHORITIES WILL BE DONE AT THE RISK OF THE CLIENT.

DRIVEWAY, AND GRADING NOTES:

1. DRIVEWAY SHALL NOT EXCEED 10% TRAVERSING SLOPE AND 2% CROSS SLOPE.
2. DRIVEWAY SHALL BE MINIMUM 12 FEET IN WIDTH (RESIDENTIAL) OR 20' IN WIDTH (COMMERCIAL).
3. DRAINAGE SWALES SHALL HAVE A MINIMUM DEPTH OF 12" AND MINIMUM WIDTH OF 4'. SWALES SHALL HAVE A LINEAR SLOPE OF MINIMUM 2% (1' RISE PER 50' RUN) AND MAXIMUM SIDE SLOPE OF 1' RISE PER 3' RUN.
4. ALL WORK WITHIN RIGHT-OF-WAY SHALL BE PERMITTED BY HIGHWAY SUPERINTENDENT AND COORDINATE W/ INSPECTOR.

LANDSCAPING PLAN NOTES:

1. ONE YEAR GUARANTEE TO BE PROVIDED BY THE CONTRACTOR ON ALL PLANT MATERIAL FROM DATE OF FINAL ACCEPTANCE.
2. ALL EXISTING PAVEMENT, BASE STONE AND UNSUITABLE SUBGRADE MATERIAL IN NEW PLANTING BEDS TO BE REMOVED TO PROVIDE DEPTH FOR SUITABLE PLANTING BACKFILL MATERIAL AS DIRECTED AND APPROVED BY THE ENGINEER.
3. ALL PLANTS SHALL MEET OR EXCEED THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI Z60.1.
4. PLANTING BACKFILL MIXTURE TO CONSIST OF 4 PARTS TOPSOIL AND 1 PART PEAT MOSS. PROVIDE 10 LBS. OF 5-10-5 FERTILIZER PER 1 CUBIC YARD OF PLANTING BACKFILL TO A MINIMUM DEPTH OF 2'-0".
5. LANDSCAPING CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND BONDS FOR ALL LANDSCAPING WORK IF REQUIRED BY THE TOWN OF CANANDAIGUA.
6. LANDSCAPING CONTRACTOR WILL INFORM THE ENGINEER/LANDSCAPE ARCHITECT ABOUT ENCOUNTERING ANY UNDERGROUND UTILITIES OR STRUCTURES NOT PREVIOUSLY IDENTIFIED OR FIELD LOCATED.
7. ALL SHRUB PLANTING BEDS TO RECEIVE 2" LAYER OF CLEAN, WASHED PEA GRAVEL MULCH ON PERMEABLE WEED BARRIER.
8. ALL PERMANENT LAWN AREAS ARE TO RECEIVE 6" OF TOPSOIL AND THE FOLLOWING LAWN SEED MIX:
   65% KENTUCKY BLUEGRASS AT 2.5 LBS PER 1,000 S.F.
   20% PERENNIAL RYEGRASS AT 1.0 LBS PER 1,000 S.F.
   15% FINE FESCUE AT 0.6 LBS PER 1,000 S.F.

SITE NOTES:

1. THE CONSTRUCTION SITE IS NOT WITHIN 100' OF A WETLAND AS DELINEATED BY NYS DEC. THERE ARE NOT NYS DEC DELINEATED OR APPARENT WETLANDS ON THE PROPERTY AS SHOWN.
2. THE CONSTRUCTION SITE IS NOT WITHIN A 100 YEAR FLOODPLAIN AS DELINEATED BY FEMA.
3. WATER SUPPLY: PUBLIC WATER
4. NYS SPDES PERMIT IS NOT REQUIRED FOR THESE CONSTRUCTION ACTIVITIES, DISTURBANCE SHALL BE LESS THAN ONE ACRE. IF THE CONTRACTOR OR OWNER AT ANY TIME PLAN DISTURB GREATER THAN AN ACRE THE ENGINEER SHALL BE NOTIFIED.
5. ALL NEW OUTDOOR LIGHTING ON SHALL HAVE APPROPRIATE SHIELDS AND CUT-OFF TO LIMIT ILLUMINATION OF OTHER PROPERTIES. ALL LIGHTS SHALL BE DARK SKY COMPLIANT.
6. ELEVATION DATUM: NAVD 88 GEOID 12B

PHOSPHOROUS NOTES:

1. NO PHOSPHOROUS SHALL BE USED AT PLANTING TIME UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY A HORTICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHOROUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS AND PLANTINGS FROM ESTABLISHING PROPERLY.
2. IF SOIL TESTS INDICATE A PHOSPHOROUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHOROUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL NYS DEC.

NOT FOR CONSTRUCTION

STANDARD NOTES

1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF CANANDAIGUA AND THE APPROPRIATE WATER/SEWER AGENCIES, UNLESS OTHERWISE NOTED.
2. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED TO CONFORM WITH THE LATEST NYSDEC GENERAL PERMIT AND TO THE TOWN REQUIREMENTS REGARDING MAINTENANCE AND CONTROL OF STORM WATER QUALITY AND QUANTITY.
3. ALL SWPPP'S ARE REQUIRED TO BE REVIEWED AND APPROVED BY THE TOWN CEO AND TOWN ENGINEER. THE TOWN MS4 SWPPP ACCEPTANCE FORM IS TO BE SIGNED AND INSERTED INTO THE PROJECT SWPPP PRIOR TO CONSTRUCTION.
4. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THE REQUIRED SWPPP, INCLUDING FILING OF THE "NOTICE OF INTENT" (NOI). A COPY OF THE NYSDEC ACKNOWLEDGEMENT LETTER IS TO BE PROVIDED TO THE TOWN DEVELOPMENT OFFICE AND TOWN ENGINEER PRIOR TO CONSTRUCTION.
5. A COPY OF THE PROJECT SWPPP IS TO BE PROVIDED TO THE TOWN DEVELOPMENT OFFICE, TOWN ENGINEER, AND A COPY IS TO REMAIN ONSITE DURING CONSTRUCTION AT ALL TIMES IN A MARKED AND ACCESSIBLE LOCATION.
6. ANY MODIFICATIONS OR DEVIATIONS FROM THE APPROVED PLANS, CONSTRUCTION SEQUENCE, AND/OR SWPPP, INCLUDING IMPLEMENTATION OF EROSION CONTROL MEASURES AND STORM WATER MANAGEMENT AREAS, SHALL BE APPROVED BY THE TOWN OF CANANDAIGUA AND DOCUMENTED WITHIN THE PROJECT SWPPP.
7. THE OWNER IS REQUIRED TO PROVIDE DAILY ONSITE OBSERVATION BY A LICENSE PROFESSIONAL OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC). ALL SWPPP INSPECTIONS ARE TO BE IN A FORM ACCEPTABLE BY THE TOWN OF CANANDAIGUA AND FORWARDED TO OWNER, THE TOWN CEO, TOWN ENGINEER, AND A COPY PLACED WITHIN THE ONSITE PROJECT SWPPP.
8. THE OWNER IS RESPONSIBLE FOR PROVIDING ONSITE SWPPP INSPECTIONS BY A LICENSE PROFESSIONAL OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) DURING CONSTRUCTION ONCE PER WEEK (EVERY 7 DAYS) IF UNDER 5-ACRES OF DISTURBANCE AND TWICE PER WEEK (EVERY 7 DAYS) IF 5-ACRES OR MORE WITH RECEIPT OF A 5-ACRE WAIVER FROM THE TOWN OF CANANDAIGUA (MS4).
9. DEVELOPMENT IN THE CANANDAIGUA LAKE WATERSHED DISTURBING MORE THAN 5-ACRES AT ONE TIME, IS REQUIRED TO COORDINATE THE REGULAR SWPPP OBSERVATIONS REQUIRED BY THE LATEST GENERAL PERMIT WITH THE CANANDAIGUA LAKE WATERSHED INSPECTOR, THE WATERSHED PROGRAM MANAGER AND THE TOWN CODE ENFORCEMENT OFFICER.
10. CONSTRUCTION SEQUENCE - ALL PLANS ARE TO BE PROVIDED WITH A DETAILED CONSTRUCTION SEQUENCE. THE CONTRACTOR SHALL COMPLETE CONSTRUCTION AND INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE APPROVED CONSTRUCTION SEQUENCE UNLESS SPECIFIED OTHERWISE ON THE APPROVED DESIGN PLANS OR AT THE PRE -CONSTRUCTION MEETING.
11. DUST SHALL BE CONTROLLED DURING CONSTRUCTION BY THE CONTRACTOR TO MINIMIZE EFFECT ON THE ADJACENT PROPERTIES. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS NEEDED AND/OR AS DIRECTED BY THE TOWN OF CANANDAIGUA.
12. THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION AND UNTIL THE SITE IS FULLY STABILIZED, INSPECTED BY THE TOWN OF CANANDAIGUA, AND ISSUANCE OF THE NOTICE OF TERMINATION (NOT) HAS BEEN PROVIDED TO NYSDEC.
14. ROOF LEADERS SHOULD BE CONNECTED TO STORM SEWERS WHERE POSSIBLE, UNLESS OTHERWISE SPECIFIED ON THE APPROVED PLANS AND WITHIN THE PROJECT SWPPP.
15. NO SITE PREPARATION SHALL COMMENCE UNTIL A VISUAL INSPECTION BY THE TOWN OF CANANDAIGUA, CONFIRMS THE INSTALLATION OF PERIMETER SEDIMENT CONTROLS AND THE STABILIZED CONSTRUCTION ENTRANCE.
16. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF VEGETATION, THE STORM WATER MANAGEMENT FACILITIES SHALL BE CLEANED OF ACCUMULATED SILT.

STANDARD NOTES (CONTINUED)

17. ALL SITE STABILIZATION IS TO BE IN ACCORDANCE WITH THE LATEST VERSIONS OF THE NYSDEC STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL AND THE NYSDEC GENERAL PERMIT REQUIREMENTS (WHERE APPLICABLE).
18. ADDITIONAL TEMPORARY AND PERMANENT SEEDING AND SITE STABILIZATION REQUIREMENTS:
    A. ALL DISTURBED AREAS INCLUDING TOPSOIL STOCKPILES AND STORMWATER MANAGEMENT FACILITIES ARE TO BE STABILIZED WITHIN SEVEN (7) DAYS AFTER COMPLETION.
    B. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PROVIDED AS FOLLOWS:
    - THE SURFACE TWO INCHES OF SOIL SHOULD BE LOOSENED BY DISKING, RAKING, OR BACK-BLADING WITH A BULLDOZER.
    - FERTILIZE WITH 300 POUNDS PER ACRE (OR 7 POUNDS PER 1,000 SQUARE FEET).
    - NO PHOSPHORUS SHALL BE USED UNLESS SOIL TESTING HAS BEEN COMPLETED AND TESTED BY HORTICULTURAL TESTING LAB AND THE SOIL TESTS SPECIFICALLY INDICATE A PHOSPHORUS DEFICIENCY THAT IS HARMFUL, OR WILL PREVENT NEW LAWNS AND PLANTINGS FROM ESTABLISHING PROPERLY.
    - IF SOIL TESTS INDICATE A PHOSPHORUS DEFICIENCY THAT WILL IMPACT PLANT AND LAWN ESTABLISHMENT, PHOSPHORUS SHALL BE APPLIED AT THE MINIMUM RECOMMENDED LEVEL PRESCRIBED IN THE SOIL TEST FOLLOWING ALL NYSDEC REGULATIONS.
    - THE FOLLOWING SEED MIX SHALL BE USED:

SPRING/SUMMER/EARLY FALL	LBS/ACRE	LBS/1,000 SQ. ACRE
ANNUAL RYE GRASS	30	0.7
PERENNIAL RYEGRASS	30	0.7
LATE FALL/EARLY WINTER		
CEREAL RYE	100	2.5

    - SEED SHOULD HAVE A GERMINATION RATE OF AT LEAST 85 PERCENT AND MINIMAL INERT MATERIAL.

    C. DISTURBED AREAS SHALL BE STABILIZED USING PERMANENT LAWN SEEDING MIX UPON COMPLETION OF GRADING AND CONSTRUCTION:

	LBS/ACRE	LBS/1,000 SQ. ACRE
BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER	8 OR 8	0.20 OR 0.20
TALL FESCUE	20	0.45
REDTOP OR RYEGRASS (PERENNIAL)	2 OR 5	0.05 OR 0.10

    - SEEDING RATE: 6.0 POUNDS PER 1,000 SQUARE FEET
    - MULCH: STRAW OR WOOD FIBER MULCH USED WITH HYRDO SEEDING METHOD AT TWO TONS PER ACRE WITH TACKIFIER.
    - FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "AROOSTOCK" WINTER RYE (CEREAL RYE) AT 100 POUNDS PER ACRE.
    - PERMANENT STABILIZATION FOR STEEP SLOPES GREATER THAN 3:1 SHALL INCLUDE JUTE MESH BLANKET AND CROWN VETCH SEED WITH PERENNIAL RYEGRASS.
19. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION.
20. EXISTING UNDERGROUND UTILITIES SHOWN HEREIN WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORD PLANS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE DIG SAFELY NEW YORK (UFPO) HOTLINE AT 1-800-962-7962 FOR STAKEOUT OF EXISTING UTILITIES. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE COMMENCING CONSTRUCTION. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS TO LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS AS REQUIRED TO MEET THE EXISTING CONDITIONS.

STANDARD NOTES (CONTINUED)

21. THE HOMEBUILDER WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING INDIVIDUAL LOT EROSION & SEDIMENT CONTROL MEASURES, DURING HOUSE CONSTRUCTION. MEASURES TO BE MAINTAINED UNTIL FINAL LOT LAWN GRADING AND SITE IS FULLY STABILIZED AND INSPECTED BY THE TOWN OF CANANDAIGUA.
22. ANY ADDITIONAL EROSION OR SEDIMENT CONTROL MEASURES DEEMED NECESSARY BY THE TOWN OF CANANDAIGUA OR A REPRESENTATIVE THEREOF SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
23. SEDIMENT CONTROL MEASURES ARE TO BE ESTABLISHED PRIOR TO COMMENCING EARTHWORK. SEDIMENT CONTROL MEASURES ARE TO BE MAINTAINED BY THE CONTRACTOR UNTIL UPSTREAM GROUND COVER HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE TOWN OF CANANDAIGUA.
24. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPLACING AND SUBSEQUENTLY REMOVING TEMPORARY EROSION & SEDIMENT CONTROL DEVICES.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ADJOINING PROPERTIES, ROADWAYS, DRAINAGE WAYS AND SINKS OF SILT ACCUMULATION AS NEEDED AND AS DETERMINED/REQUESTED BY THE TOWN OF CANANDAIGUA.
26. ANY FINAL GRADE DEVIATIONS OF HOUSE PAD ELEVATIONS MORE THAN 12 INCHES SHALL BE APPROVED BY THE PLANNING BOARD.

STORM SEWER NOTES

1. CATCH BASIN AND MANHOLE DIAMETERS SHALL BE AS FOLLOWS:

LARGEST PIPE SIZE IN STRUCTURE	INSIDE DIAMETER OF STRUCTURE
UP TO 24"	4'
27" TO 42"	5'
LARGER THAN 42"	SPECIAL STRUCTURE

2. STORM SEWER PIPING TO BE CORRUGATED SMOOTH BORE POLYETHYLENE PIPE IN ACCORDANCE WITH N.Y.S.D.O.T. ITEM 18903.97 AND AASHTO-M252 & M294.

3. LINING MATERIALS AND SPECIAL BACKFILL TO BE R.O.B. OR R.O.C. MATERIAL (N.Y.S.D.O.T. SECTION 304-2.02 TYPE 4), MEETING THE FOLLOWING GRADATIONS:

SIEVE SIZE	% PASSING BY WEIGHT
2"	100
1/4"	30-50
#40	5-40
#200	0-10

4. GRANULAR FILTER MATERIAL TO BE N.Y.S.D.O.T. SECTION 605-2.02 TYPE 1, MEETING THE FOLLOWING GRADATIONS:

SIEVE SIZE	% PASSING BY WEIGHT
1"	100
1/2"	30-100
1/4"	0-30
#10	0-10
#20	0-5

5. RIP-RAP SHALL BE UNIFORMLY HARD, DURABLE, AND ANGULAR FIELD OR QUARRED LIMESTONE WITH A MINIMUM DENSITY OF 150 LB/CF. THE RATIO OF THE MINIMUM DIMENSION TO THE MAXIMUM DIMENSION OF EACH PIECE TO BE AT LEAST 0.6. RIP-RAP SHALL BE COMPOSED OF A WELL GRADED MIXTURE OF PRIMARILY LARGER STONE SIZES WITH A SUFFICIENT MIXTURE OF SMALLER SIZES TO FILL THE VOIDS. UNLESS OTHERWISE NOTED IN THESE PLANS, SUPPLEMENTAL SPECIFICATIONS, OR UNLESS OTHERWISE DIRECTED, RIP-RAP SIZES SHALL BE AS FOLLOWS:

MAX. DIMENSION OF STONE	% OF MIX BY WEIGHT
18"-24"	20
12"-18"	50
8"-12"	20
4"-8"	10

FINAL

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LICENSED PROFESSIONAL ENGINEER
STAMP

STAMP

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
NOTES

DRAWN BY:	KRB
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

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WATERMAIN AND SEPCIFICATIONS NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NYS DEPARTMENT OF HEALTH.
2. NOTIFY CENTRAL STAKEOUT PHONE NUMBER 1-800-962-7962 FOR LOCATION OF UNDERGROUND GAS, ELECTRIC AND TELEPHONE 48 HOURS BEFORE UNDERTAKING ANY EXCAVATION.
3. EXISTING UNDERGROUND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND WERE PLOTTED FROM AVAILABLE FIELD LOCATION AND/OR UTILITY COMPANY RECORD PLANS, AND THE ACCURACY OF SUCH INFORMATION IS DEPENDENT ON THE SOURCES FROM WHICH IT WAS OBTAINED.
4. THE CONTRACTOR SHALL DETERMINE IF UTILITY COMPANY STAKEOUT HAS BEEN COMPLETED AND SHALL VERIFY EXACT LOCATION AND ELEVATION OF UNDERGROUND UTILITIES BEFORE COMMENCING EXCAVATION.
5. MAKE EXPLORATORY EXCAVATION TO LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS REQUIRED TO MEET EXISTING CONDITIONS.
6. TAKE PRECAUTIONS TO PROTECT ALL UTILITY LINES WHETHER OR NOT SHOWN ON THESE PLANS. REPAIR ANY DAMAGE TO UTILITIES RESULTING FROM CONSTRUCTION ON THIS PROJECT.
7. LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY MONUMENTS AND R.O.W. MONUMENTS IN THE AREA OF CONSTRUCTION.
8. WATER MAINS SHALL BE PVC, C900, DR18 PRESSURE CLASS 150 WITH 10 GAUGE MINIMUM SOLID COPPER TRACING WIRE.
9. WATER MAIN FITTINGS SHALL BE AWWA C110/ANSI A21.1 DUCTILE IRON FITTINGS OR AWWA C153/ANSI A21.53 DUCTILE IRON COMPACT FITTINGS WITH ANSI A21.4 CEMENT MORTAR LINING AND SEAL COATING INSIDE, BITUMINOUS COATING OUTSIDE.
10. GATE VALVES SHALL BE AWWA C-509, RESILIENT-SEALED, NON-RISING STEM GATE VALVES AS MANUFACTURED BY KENNEDY VALVE COMPANY. OPEN LEFT OR COUNTERCLOCKWISE.
11. ALL WATER MAINS INCLUDING HYDRANT BRANCHES SHALL BE INSTALLED WITH A MINIMUM OF 5 FEET COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE TOWN OF GORHAM SHALL CHECK ALL TRENCH DEPTHS TO INSURE THAT ALL INSTALLED WATER MAINS WILL HAVE THE REQUIRED COVER.
12. WATER MAINS AND APPURTENANCES SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA STANDARD C-605, SECTION 4, HYDROSTATIC TESTING.
13. ALL WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651 DISINFECTING WATER MAINS, TABLET METHOD EXCLUDED, AND THE REQUIREMENTS OF THE NYS DEPARTMENT OF HEALTH. USE 50 PPM INITIAL CHLORINE DOSE. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS AFTER WHICH THE RESIDUAL SHALL BE AT LEAST 10 PPM. THE SYSTEM SHALL THEN BE FLUSHED AND REFILLED WITH CLEAN WATER.
14. WATER SAMPLES SHALL BE COLLECTED BY THE TOWN AND THE MAIN SHALL NOT BE PLACED IN SERVICE UNTIL THE WATER SAMPLE HAS BEEN ANALYZED BY A NYS DEPARTMENT OF HEALTH APPROVED LABORATORY AND A REPORT RECEIVED INDICATING THAT THE SAMPLE IS SATISFACTORY.
15. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED BY FINE GRADING, TOP SOILING AND SEEDING TO MATCH EXISTING SURFACES.
16. THE COMPLETED WORKS ARE NOT TO BE PLACED IN OPERATION UNTIL A COMPLETED WORKS APPROVAL IS RECEIVED FROM NYS DEPARTMENT OF HEALTH.
17. PROVIDE MUELLER H-15008 CORPORATION STOPS, MUELLER H-15209 1" CURB STOPS, MUELLER H-10314 CURB BOXES, AND DOUBLE STRAP SERVICE CLAMP B22B0899CC.
18. POLYETHYLENE WATER SERVICE LINE SHALL CONFORM TO ASTM D2737, CLASS 200, NSF-61 APPROVED.
19. HYDRANTS SHALL CONFORM TO AWWA C-502. GUARDIAN HYDRANTS BY KENNEDY VALVE.
20. DISINFECTION AND SAMPLING TAPS SHALL BE EVERY 1200 FEET AND AT THE BEGINNING AND END OF EVERY MAIN.
21. COORDINATE PROTECTION/ HOLDING OF POLES WHERE WATER MAINS ARE TRENCHED WITHIN 6 FEET OF LOCAL UTILITY.
22. A MINIMUM OF 10' HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN WATERMAINS AND STORM OR SANITARY SEWER LINES.

WATER MAIN GENERAL NOTES:

1. ALL WORK IS TO BE COMPLETED IN ACCORDANCE WITH NYSDOH, NYSDOT, NYSOPR&HP, NYSDEC, NYSDOL, OSHA, ONTARIO COUNTY, AND LOCAL COMMUNITY REQUIREMENTS.
2. THE LOCATIONS, SIZES AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON INFORMATION COMPILED BY THE ENGINEER FROM DRAWINGS OF RECORDS AND INFORMATION FURNISHED BY THE VARIOUS UTILITIES, WITH FIELD CHECKING WHERENECESSARY AND POSSIBLE. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND MAY BE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE THIS INFORMATION VERIFIED AND LOCATED PRIOR TO CONSTRUCTION. NO CONSTRUCTION EXCAVATION, BORING, OR BLASTING SHALL BE DONE WITHOUT CERTIFICATION OF THE DEPTH AND LOCATION OF UTILITIES.
3. THE APPROXIMATE LOCATION OF THE PROPOSED WATER MAIN IS INDICATED ON THE PLANS, HOWEVER THE ACTUAL LOCATION WILL BE GOVERNED BY THE ACTUAL LOCATION OF THE UNDERGROUND UTILITIES OR OTHER CONTROLLING FACTORS AS DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES, SERVICES, SEWERS AND LATERALS AHEAD OF PIPE LAYING OR OTHER WORK OPERATIONS SO THAT IF MINOR ADJUSTMENTS MUST BE MADE IN ELEVATION AND/OR ALIGNMENT, DUE TO INTERFERENCE, THESE CHANGES CAN BE MADE IN ADVANCE OF THE WORK.
5. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE IN LAWN AREAS AND A MINIMUM OF SIX FEET OF COVER FROM FINISHED GRADE IN PAVED.
6. WHERE THE CLEARANCE BETWEEN THE WATER MAIN AND ANY EXISTING UTILITY OR SERVICE CONNECTIONS (EXCEPT SANITARY SEWER CROSSING) IS LESS THAN ONE (1) FOOT, A TYPE C SELECT FILL SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
7. ALL FITTINGS SHALL BE PROPERLY RESTRAINED WITH 2500 PSI THRUST BLOCKING.
8. HIGHWAY DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION. THE ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
9. SAFE AND CONTINUOUS THROUGH TRAFFIC AND INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS AND PUBLIC STREETS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
10. THE CONTRACTOR SHALL LOCATE, FLAG AND PRESERVE SURVEY MONUMENTS AND PROPERTY CORNER MARKERS. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR REESTABLISH ANY PROPERTY CORNERS OR SURVEY MONUMENTS DISTURBED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
11. WHEN INSTALLING HYDRANTS OR BLOW-OFFS, SHOULD GROUND WATER BE ENCOUNTERED WITHIN 7 FEET OF THE FINISH GRADE, WEEP HOLES (DRAINS) SHALL BE PLUGGED. IF WEEPS ARE PLUGGED, HYDRANTS AND BLOW-OFFS SHALL BE SO LABELED, PER LOCAL JURISDICTION REQUIREMENTS, AND THE WATER DISTRICT SUPERINTENDENT AND LOCAL FIRE DEPARTMENT SHALL BE NOTIFIED IN WRITING.
12. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPE AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER PIPE SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE THE WATER MAIN CROSSES UNDER THE SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
13. EXISTING WATER SERVICE SHALL BE MAINTAINED AT ALL TIMES.
14. ALL ASPHALT DRIVES CROSSED BY THE WATER MAIN INSTALLATION SHALL BE SAW CUT AT THE LIMIT OF THE DISTURBED AREA OR AS A MINIMUM 5 FEET BEYOND THE CENTERLINE OF THE NEW WATER MAIN LOCATION AND RESURFACED TO THE EDGE OF PAVEMENT.
15. ALL EXISTING UTILITY LINES AND SERVICE LATERALS NEAR OR CROSSING THE NEW WATER MAIN SHALL BE PROTECTED, PRESERVED AND SUPPORTED AS NECESSARY AT THE CONTRACTOR'S EXPENSE.
16. TO PROTECT NEW OR EXISTING WORK, SHEETING OR SHORING (IF REQUIRED DURING CONSTRUCTION) SHALL BE PROVIDED AT NO COST TO THE OWNER.
17. WHEREVER MAILBOXES, POSTS, FENCES, SHRUBBERY, ETC. ARE IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THEY SHALL BE REMOVED AND RESET AS ORDERED BY THE ENGINEER. COST TO BE INCLUDED IN THE VARIOUS ITEMS BID OF THE CONTRACT.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF EXCAVATED MATERIAL FROM THE SITE.
19. THE CONTRACTOR SHALL CONFORM TO ALL CONDITIONS OF ANY APPLICABLE EASEMENTS.
20. THE CONTROL OF DUST ORIGINATING FROM THE CONSTRUCTION OPERATIONS IS CONSIDERED A CRITICAL RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER WILL BE THE FINAL JUDGE OF THE ADEQUACY OF THE CONTRACTOR'S DUST CONTROL EFFORTS. WORK MAY BE SUSPENDED BY ENGINEER UNTIL ADEQUATE DUST CONTROL IS ATTAINED.
21. ANY EXISTING STORM DRAINAGE PIPES, INCLUDING DRIVEWAY CULVERTS, WHICH ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH CORRUGATED SMOOTH INTERIOR POLYETHYLENE PIPE, INCLUDING END SECTIONS, WHICH CONFORMS TO AASHTO SPEC. M294 TYPE S, ASTM SPEC. D3350, NYSDOT ENGINEERING INSTRUCTION #90-36 AND NYSDOT STANDARD SPECIFICATION SUBSECTION 706-14.
22. MATERIALS, EQUIPMENT AND VEHICLES ARE NOT TO BE STORED OR PARKED WITHIN THE RIGHT-OF-WAY.
23. ALL THRUST BLOCKS SHALL BE INSTALLED AGAINST UNDISTURBED SOIL.
24. NO HYDRANT, VALVE, BLOW-OFF, CURB BOX, CLEAN-OUT, ETC. SHALL BE INSTALLED IN ROADSIDE DITCH.

WATER MAIN TESTING AND DISINFECTION NOTES:

1. WATER FOR TESTING AND FLUSHING SHALL BE OBTAINED FROM EXISTING WATER SYSTEM. ARRANGEMENTS SHALL BE MADE WITH THE WATER DEPARTMENT FOR PAYMENT OF WATER USED.
2. FLUSH MAINS AND SERVICES BEFORE TESTING. MINIMUM FLUSHING VELOCITY SHALL BE 3.0 FEET PER SECOND.
3. BEFORE TESTING, SECTIONS ADJACENT TO THE TEST SECTION SHALL BE FILLED WITH WATER. THE CONTRACTOR SHALL FURNISH ALL WATER, EQUIPMENT, CONNECTIONS, PIPING, METERS, MEASURING DEVICES, PUMPS, AND TEMPORARY ENCLOSURES NECESSARY TO PERFORM THE REQUIRED TESTS.
4. ALL PRESSURE TESTS MUST BE WITNESSED BY A TOWN OF GORHAM REPRESENATIVE
5. THE CONTRACTOR SHALL NOT INSTALL CORPORATION STOPS FOR THE SERVICES UNTIL THE WATER MAIN HAS PASSED THE PRESSURE TEST, HAS PASSED ALL HEALTH SAMPLE TESTING, ALL SAMPLE DISINFECTION CORPORATIONS HAVE BEEN REMOVED AND PLUGGED, THE WATER MAIN HAS BEEN PLACED IN SERVICE BY THE WATER AUTHORITY AND THE CONTRACTOR HAS RECEIVED APPROVAL TO INSTALL THE SERVICES FROM THE OWNER/ENGINEER. THE OWNER/ENGINEER WILL PROVIDE THE CONTRACTOR A LISTING OF PROPERTIES THAT HAVE BEEN APPROVED FOR WATER SERVICE INSTALLATION.
6. ANY PUMP, PIPE, CONNECTIONS, GAUGES, AND MEASURING DEVICES SHALL BE CALIBRATED TO THE SATISFACTION OF THE ENGINEER.
7. ALL WATER MAINS AND APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C 651 DISINFECTING WATER MAINS, ITEM 5.1 DELETED, AND THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH, USING THE CONTINUOUS FEED METHOD. THE REQUIREMENTS OF NYS DEPARTMENT OF HEALTH SHALL GOVERN WHEN THERE IS A CONFLICT. USE 50 PPM INITIAL CHLORINE DOSE. DISINFECTANT SHALL REMAIN IN THE SYSTEM FOR A PERIOD OF 24 HOURS AFTER WHICH THE RESIDUAL SHALL BE AT LEAST 25 PPM. FOLLOWING DISINFECTION, ALL TREATED WATER SHALL BE THOROUGHLY FLUSHED FROM THE MAIN. WATER USED FOR DISINFECTING THE WATER MAINS, IF DISCHARGED TO THE STREAMS,
8. MUST HAVE A CHLORINE RESIDUAL NOT EXCEEDING 0.05 mg/l AT THE POINT OF DISCHARGE. THE CONTRACTOR IS RESPONSIBLE TO ATTAIN THIS CHLORINE RESIDUAL LEVEL BY WHATEVER MEANS NECESSARY, AT NO COST TO THE OWNER.
9. THE INTERIORS OF ALL APPURTENANCES AND SECTIONS OF WATER MAIN THAT CANNOT NORMALLY BE DISINFECTED SHALL BE SWABBED BY THE CONTRACTOR, TO THE SATISFACTION OF THE ENGINEER, WITH A CONCENTRATED CHLORINE SOLUTION CONTAINING NO LESS THAN 200 PPM OF FREE CHLORINE. THE CONTRACTOR SHALL ALSO DISINFECT ALL EXISTING WATER LINES AND APPURTENANCES WHICH WERE BROKEN, DAMAGED, CONTAMINATED, OR SUSPECTED OF BEING CONTAMINATED AS A RESULT OF WORK DONE WITH THIS PROJECT. WATER SAMPLES SHALL BE COLLECTED BY THE CONTRACTOR AND ANALYZED BY A NEW
10. NEW YORK STATE DEPARTMENT OF HEALTH APPROVED TESTING LABORATORY FOR BACTERIOLOGICAL CONTENT. A MINIMUM OF ONE SAMPLE PER 1000 FEET OF NEW WATER MAIN AND ONE FOR EACH SIDE STREET SHALL BE COLLECTED AND ANALYZED. LOCATION OF SAMPLING TAP AS APPROVED BY THE ENGINEER AND N.Y.S.D.O.H. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING DEVICES. THE CONTRACTOR SHALL COORDINATE WITH THE HEALTH DEPARTMENT

NOT FOR CONSTRUCTION

FINAL

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STAMP

STATE OF NEW YORK
BRENNAN A MARKS
093182
LICENSED PROFESSIONAL ENGINEER

STAMP

REVISIONS

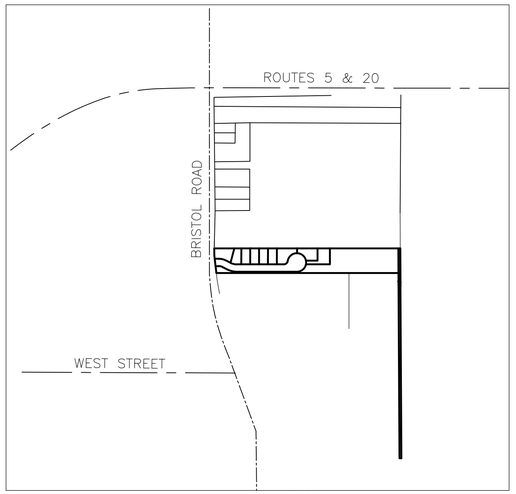
NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO STATE OF NEW YORK

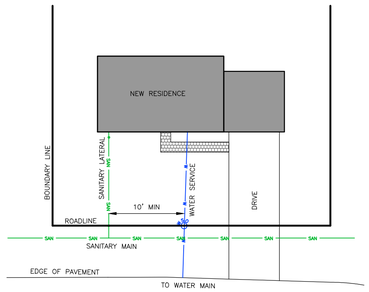
DRAWING TITLE:
NOTES

DRAWN BY:	KRB
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

G001



Location Map



2 TYPICAL LOT LATERAL DETAIL
NTS

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	70.00'	31.61'	31.34'	N14°03'49"W	25°52'26.98"
C2	180.00'	71.36'	70.89'	S11°48'54"E	22°42'49.36"
C3	75.00'	69.68'	67.20'	N53°34'34"W	53°13'57.31"
C4	75.00'	33.15'	32.88'	N87°08'45"E	25°19'24.57"
C5	75.00'	30.20'	30.00'	N62°56'52"E	23°04'21.28"
C6	75.00'	101.59'	94.00'	N12°36'30"E	77°36'22.75"
C7	75.00'	108.06'	98.95'	S67°28'14"E	82°33'06.32"
C8	30.00'	42.82'	39.28'	N67°51'11"W	81°47'12.24"
C9	120.00'	45.79'	45.51'	S11°23'21"E	21°51'43.19"
C10	130.00'	59.11'	58.60'	N13°58'29"W	26°03'07.46"

LINE	BEARING	DISTANCE
L1	N27°00'06"W	25.99'
L2	N00°27'30"W	43.15'
L3	S26°57'35"E	58.88'
L4	S26°57'35"E	72.06'
L5	S26°57'35"E	72.08'
L6	S26°57'35"E	72.11'
L7	S26°57'35"E	72.13'
L8	S26°57'35"E	43.41'
L9	S00°27'30"E	43.44'
L10	S27°00'06"E	33.06'
L11	S56°16'51"W	23.93'
L12	N27°00'07"W	5.08'
L13	N63°00'00"E	40.07'

(2) CONSERVATION ANALYSIS:

[1]– THERE ARE NO CONSTRAINED LANDS ON THE PARENT PARCELS AS CLASSIFIED BY SUBSECTION C(1)(A)[1].

[2]– THE LAND TO BE CONSERVED AS OPEN SPACE WILL BE USED FOR OPEN SPACE AND RECREATIONAL PURPOSES. ADDITIONAL CONSERVED LANDS ARE PART OF A SUCCESSIONAL NORTHERN HARDWOOD FOREST AS IDENTIFIED ON MAP 2: WOODLAND & WETLANDS OF THE TOWN OF CANANDAIGUA OPEN SPACE, CONSERVATION AND SCENIC VIEWS MASTER PLAN BY LABELLA P.C. DATED JUNE 2018.

[3]– THE PROPOSED SUBDIVISION PLANS INCLUDE BUFFER AREAS TO SCREENING NEW DEVELOPMENT FROM NEIGHBORING RESIDENCES.

[4]– THIS PARCEL IS NOT LOCATED IN THE STRATEGIC FARMLAND PRESERVATION AS INDICATED ON MAP 7: STRATEGIC FARMLAND PROTECTION AREA OF THE SAME REPORT MENTIONED ABOVE. THE PARCEL IS ALSO NOT IDENTIFIED AS A "PRIME" OR "PRIME IF DRAINED" ACCORDING TO THIS MAPPING.

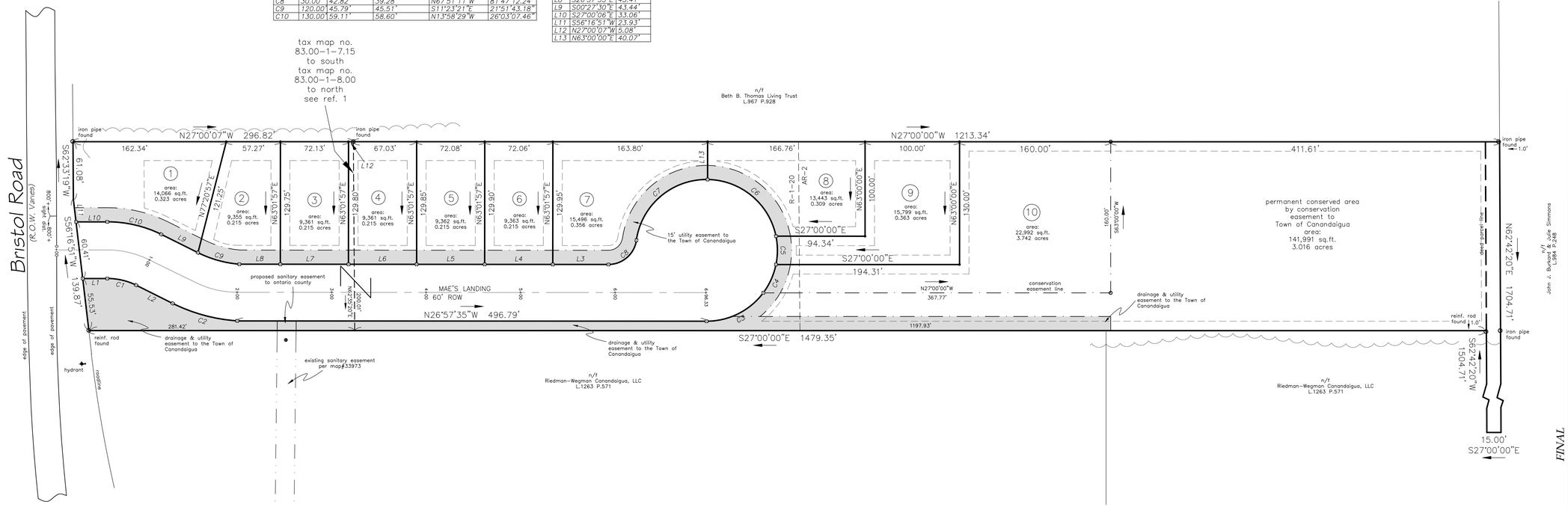
(b)AS YOU TRAVERSE THE SITE HEADING AWAY FROM BRISTOL ROAD, THE SITE CONSISTS OF OPEN GRASS LAND FOR ABOUT 350', THEN A MIXTURE OF BRUSH AND SAPLINGS TO A DISTANCE ABOUT 650', THEN A MATURE FOREST TO THE REAR OF THE PROPERTY AT 1,500 FEET FROM THE ROAD. THERE IS AN OLD HEDGEROW WITH MATURE HARDWOODS ALONG THE WESTERN PROPERTY BOUNDARY. THE PROPERTY TO THE WEST IS A LARGE PARCEL WITH A SINGLE–FAMILY RESIDENCE AND LARGE BRUSH LOT. THE PARCEL TO THE EAST IS A HIGH–DENSITY APARTMENT COMPLEX WITH SOME OPEN LAWN AREAS. THE PARCEL TO THE NORTH IS FALLOW AGRICULTURAL LANDS.

THE PARCEL AS IT CURRENTLY EXISTS HAS LITTLE CONSERVATION POTENTIAL. IT IS A PRIVATELY OWNED PARCEL WITH NO ACCESS FROM THE PUBLIC RIGHTS–OF–WAY AND CONSISTS OF EARLY SUCCESSIONAL VEGETATION WITH SOME MATURE HARDWOODS. AS IT EXISTS THE PRIVATE LANDOWNER COULD CLEAR THE ENTIRE PARCEL AND NOT FOLLOW ANY CONSERVATION GUIDELINE OR WORSE, IT COULD BE ABSORBED INTO EITHER OF THE NEIGHBORING PARCELS AND DEVELOPED.

UNDER THIS CONSERVATION SUBDIVISION AREAS OF GRASSLAND AND BRUSH AND A SMALL PORTION (200') OF THE HARDWOOD FORESTS WILL BE REMOVED AND DEVELOPED FOR SINGLE–FAMILY RESIDENCES. THE REMAINDER OF THE LANDS CONSISTING OF MOSTLY MATURE HARDWOODS WILL BE CONSERVED. A PUBLIC ACCESS TRAIL WILL BE PROVIDED FOR THE ENJOYMENT OF THE SURROUNDING COMMUNITY.

(c) LOTS #1–10 WILL CONSIST OF AREAS THAT WILL BE DEVELOPED FOR SINGLE FAMILY RESIDENTIAL.
(d) PLEASE NOTED THAT THE PLANNING BOARD SHOULD REALIZE THAT THE MATURE HARDWOODS AT THE REAR OF THE LOT SHOULD BE THE MOST CONSERVATION VALUE.
(e) LOT #10 CONSISTS OF 3 ± ACRES WHICH IS GREATER THAN 40% OF THE TOTAL PARENT PARCELS (7.426 ACRES). THERE ARE NO CONSTRAINED AREAS WITHIN THE PARENT PARCELS.

(3) ALL OF THE PROPOSED BUILDINGS ARE SINGLE–FAMILY HOUSES.
(4) THE MINIMUM LOT SIZE PROPOSED IS 9,000 SQ. FT. THE MINIMUM ALLOWED UNDER THIS SECTION OF THE CODE IS 10,000 SQ. FT. FOR R–1–20. WE ARE REQUESTING THE PLANNING BOARD WAIVE THIS MINIMUM LOT SIZE REQUIREMENT. THE SMALLER LOT SIZE IS SUFFICIENT FOR THE PROPOSED SINGLE–FAMILY RESIDENCES. THE SMALLER LOT SIZE ALSO REDUCES MAINTENANCE FOR THE FUTURE HOMEOWNERS AND REDUCES THE IMPACT ON THE MATURE HARDWOODS.
(7) (b) THE PRESERVED AREA IS NOT INCLUDED IN A BUILDING LOT.
(c) THE PROPOSED LOCATION OF THIS SUBDIVISION IS NOT ON A RIDGELINE OR VISIBLE FROM CANANDAIGUA LAKE AS INDICATED BY MAP 10 FROM THE REPORT MENTIONED ABOVE.



1 SUBDIVISION PLAT
1"=60'

ZONING:
R–1–20 Residential
Single–family dwelling
minimum lot size – 20,000 square feet
minimum lot width – 100 feet
setbacks principal building:
front – 60 feet
rear – 40 feet (principal
rear – 15 feet (accessory)
side – 25 feet (principal)
rear – 15 feet (accessory)
building height – 35 feet
Maximum building coverage – 20%

Owners:

Tax map no. 83.00–1–7.150
William Metrose, LTD
55 Sullys Trail
Pittsford, New York 14534

Tax map no. 83.00–1–8.00
William E. Metrose
425 Garnsey Road
Fairport, New York 14450

LEGEND

EXISTING	PROPOSED	
		Utility Lines
		R.O.W. line
		Property line
		Easement line
		Centerline
		Drainage
		Contour Line

Monument
Benchmark
Utility pole
Hydrant
Light pole
Road Sign
Water Valve
PERC TEST
DEEP HOLE

ABBREVIATIONS:
EX–EXISTING
CPP–CORRUGATED POLYETHYLENE PIPE
O.C.–ON CENTER
SI/PP–SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
UG–UNDERGROUND
CONC–CONCRETE
CO –CLEAN OUT
TYP–TYPICAL
R–RADIUS
BC–BOTTOM OF CURB
TC–TOP OF CURB
TW–TOP OF WALL
BW–BOTTOM OF WALL
BS–BOTTOM OF STAIRS
PERF–PERFORATED
MIN–MINIMUM
MAX–MAXIMUM
INV–INVERT
CB–CATCH BASIN
MH–MANHOLE
DI–DRAINAGE INLET

I certify that this plan was prepared March 31, 2022 from notes of an instrument survey completed August 18, 2020 and from materials referenced hereon.

David M. Parrinello NYSPLS 049724

Notes & References

1. The intent of this plan is to annex tax map no. 83.00–1–7.15 with tax map no. 83.00–1–8.00 and subdivide the combined lots into ten new residential building lots.
2. Deeds: L.1150 P.64, L.1441 P.816
3. Parcel is zoned R–1–20 Residential
4. Maps: 1455, 15429, 32637, 33973
5. This plan is subject to any easements or encumbrances that an updated search of title may reveal.
6. Horizontal Datum: New York State Plane, NAD83, New York Central
7. Vertical Datum: NAVD88, Geoid NGS2018
8. All monuments to be set upon final approval by the Town of Canandaigua

Note: It is the policy of this state and the Town of Canandaigua to conserve, protect and encourage the development and improvement of agricultural land for the production of food and other products and also for its natural ecological value. This notice is to inform prospective residents that the property that they are about to acquire lies partially or wholly in or within 500 feet of either an agricultural district or land for which an individual commitment has been received pursuant to sections 305 or 306 of the Agriculture and Markets Law of the State of New York and that farming activities occur in such district or land. Such farming activities may include, but not limited to, activities that cause noise, dust, and odors.

NEW YORK STATE DEPARTMENT OF HEALTH CONDITIONS OF APPROVAL:

A. THAT THE PROPOSED FACILITIES FOR WATER SUPPLY AND SEWAGE COLLECTION AND/OR TREATMENT SHALL BE INSTALLED IN CONFORMITY WITH SAID PLANS.
B. THAT NO LOT OR REMAINING LAND SHALL BE SUBDIVIDED WITHOUT PLANS FOR SUCH RESUBDIVISION BEING SUBMITTED TO AND APPROVED BY THE NYSDOH GENEVA DISTRICT OFFICE.
C THAT PLAN APPROVAL IS LIMITED TO 5 YEARS FROM THE APPROVAL DATE. TIME EXTENSIONS FOR PLAN APPROVAL MAY BE GRANTED BY THE NYSDOH GENEVA DISTRICT OFFICE BASED UPON DEVELOPMENT FACTS AND THE REALTY SUBDIVISION REGULATIONS IN EFFECT AT THAT TIME. A NEW PLAN SUBMISSION MAY BE REQUIRED TO OBTAIN A TIME EXTENSION.
D. THAT THE APPROVED PLANS MUST BE FILED WITH THE COUNTY CLERK PRIOR TO OFFERING LOTS FOR SALE AND WITHIN 90 DAYS OF THE DATE OF PLAN APPROVAL.
E. THAT ALL LOCAL AND STATE AGENCY RULES AND REGULATIONS SHALL BE COMPLIED WITH.

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

NYS HEALTH DEPT. APPROVAL – ONSITE WASTEWATER TREATMENT SYSTEMS

NOT FOR CONSTRUCTION

FINAL

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BRENNAN A MARKS 093182 LICENSED PROFESSIONAL ENGINEER STAMP

LICENSED LAND SURVEYOR DAVID M. PARRINELLO LS 049724-1 UNIVERSITY OF THE STATE OF NEW YORK STAMP

REVISIONS

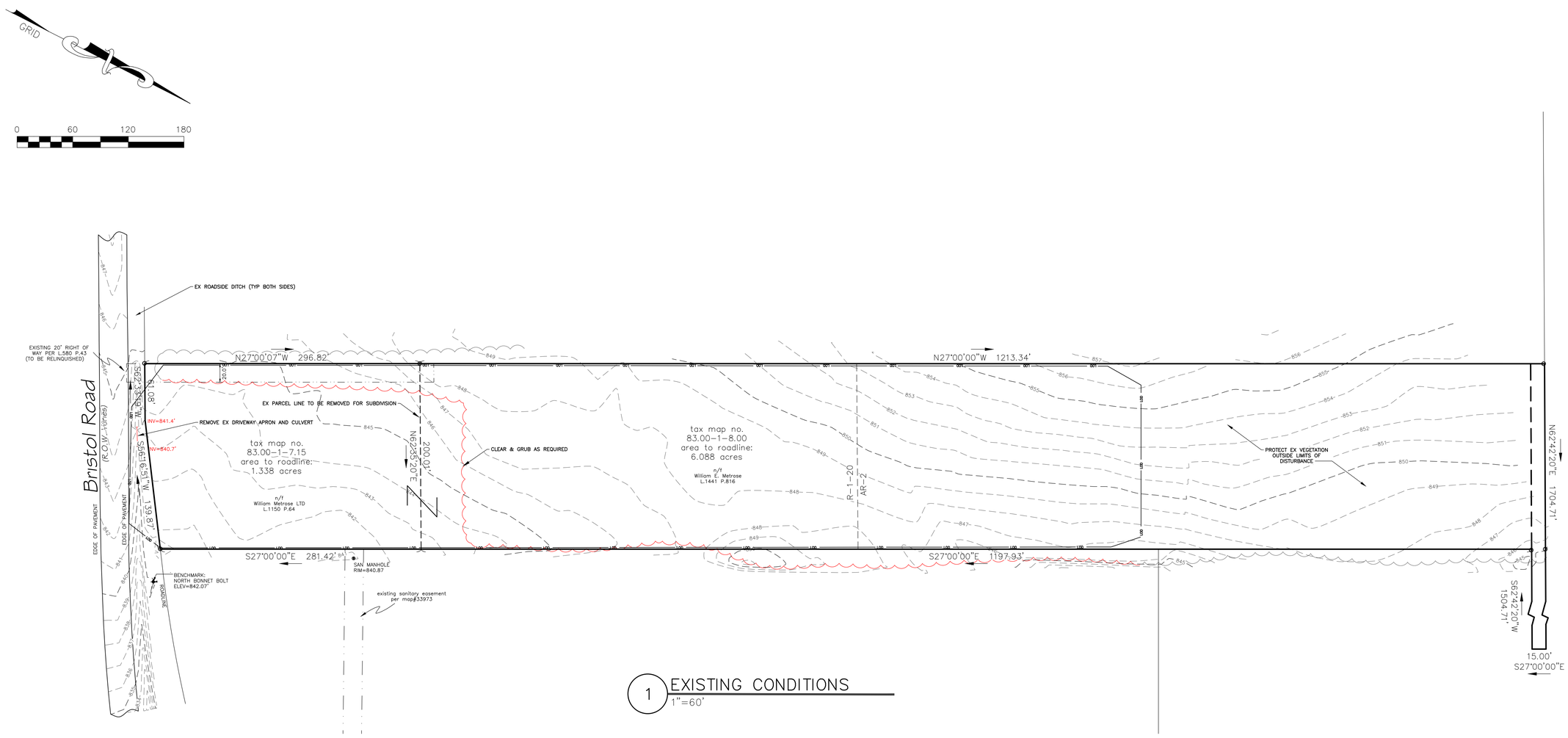
NO	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10 -LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE: SUBDIVSION PLAT

DRAWN BY:	KRB
DESIGNED BY:	BAM
CHECKED BY:	DMP
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

PLAT



1 EXISTING CONDITIONS
1"=60'

REFERENCES & NOTES

1. DEEDS: L.1150 P.64, L.1441 P.816
2. PARCEL IS ZONED R-1-20 RESIDENTIAL
3. MAPS: 1455, 15429, 32637, 33973
4. HORIZONTAL DATUM: NEW YORK STATE PLANE, NAD83, NEW YORK CENTRAL
5. VERTICAL DATUM: NAVD88, GEOID NGS2018
6. THIS PLAN IS SUBJECT TO ANY EASEMENTS OR ENCUMBRANCES THAT AN UPDATED SEARCH OF TITLE MAY REVEAL.

LEGEND

	EXISTING	PROPOSED	
	DHE DHE		Utility Lines
			R.O.W. line
			Property line
			Easement line
			Centerline
			Drainage
			Contour Line

- Monument
- Benchmark
- Utility pole
- Hydrant
- Light pole
- Road Sign
- Water Valve
- PERC TEST
- DEEP HOLE

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NOT FOR CONSTRUCTION

FINAL

I certify that this plan was prepared March 31, 2022 from notes of an instrument survey completed August 18, 2020 and from materials referenced hereon.

David M. Parrinello NYSPLS 049724

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STATE OF NEW YORK
BRENNAN A MARKS
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090182
PROFESSIONAL ENGINEER
STAMP

LICENSED LAND SURVEYOR
DAVID M. PARRINELLO
LS 049724-1
STATE OF NEW YORK
STAMP

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
EXISTING CONDITIONS

DRAWN BY:	KRB
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

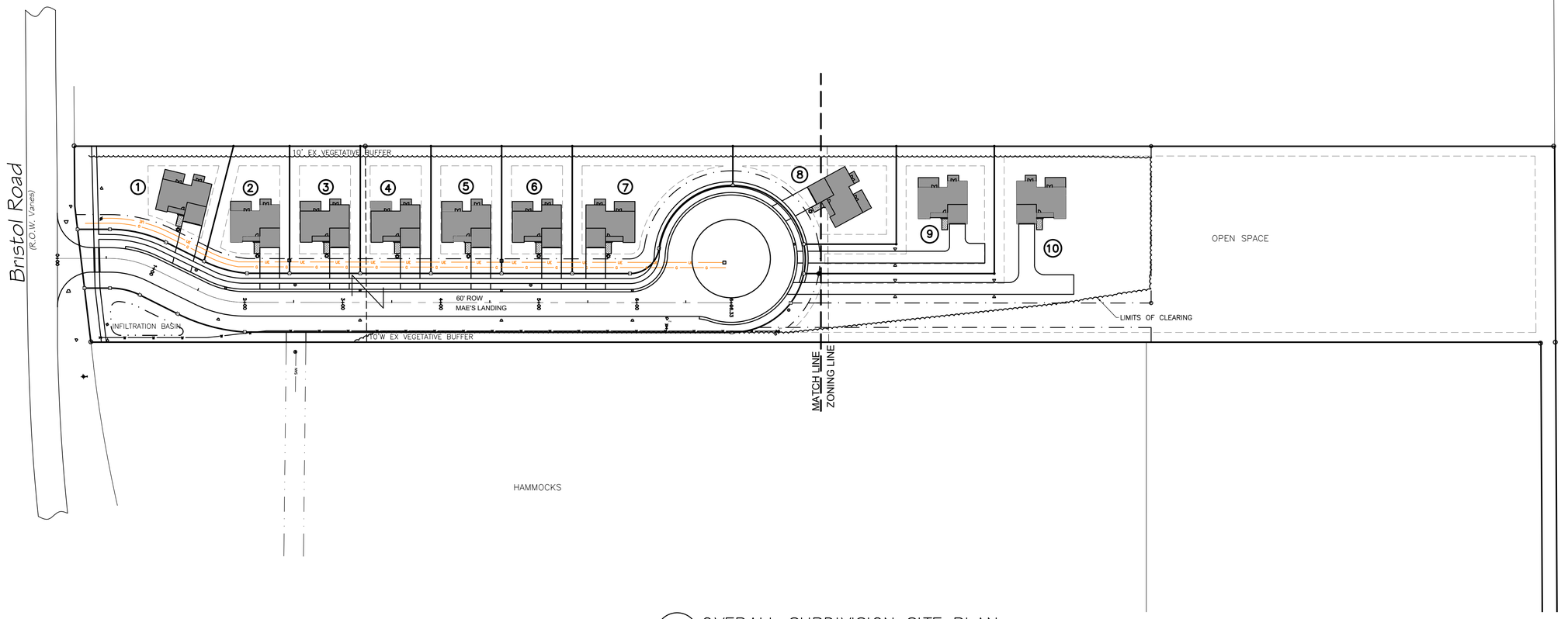
EX100

SITE DATA												
	REQUIRED	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8	LOT 9	LOT 10	CONSERVATION EASEMENT
ZONING/USE - PRINCIPAL	CONSERVATION SUBDIVISION	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	SINGLE RESIDENTIAL	OPEN SPACE
ZONING/USE - ACCESSORY	NA	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	ATTACHED GARAGE	NA
FRONTAGE	72'	135.61'	89.20'	72.13'	72.11'	72.08'	72.06'	209.76'	101.59'	30.20'	33.15'	738.58'
AREA	9,000 SF	14,066 SF	9,355 SF	9,361 SF	9,361 SF	9,362 SF	9,363 SF	15,496 SF	13,443 SF	15,799 SF	22,992 SF	141,991 SF
FRONT SETBACK	60'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'
SIDE SETBACK	25'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'	10'
REAR SETBACK	40'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'	20'
BUILDING HEIGHT	35'	35'	35'	35'	35'	35'	35'	35'	35'	35'	35'	35'
BUILDING COVERAGE	20.00%	22%	32.3%	32.3%	32.3%	32.3%	32.3%	32.3%	21.8%	18.6%	30.4%	0%

CONSERVATION SUBDIVISION ANALYSIS			
ZONING	AREA	PERMITTED DESNITY	TOTAL UNITS
R-1-20	150,518 SF	20,000 SF/ UNIT	8 UNITS
AR-2	172,964 SF	2 ACRES/ UNIT	2 UNITS
TOTAL	323,482 SF		10 UNITS

GRID NORTH

0 60 120 180



1 OVERALL SUBDIVISION SITE PLAN
1"=60'

LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	OHE elec	E/T
R.O.W. line		
Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
Fence Line	X X	x x
Contour Line	99	

ABBREVIATIONS:
EX–EXISTING
CPP–CORRUGATED POLYETHYLENE PIPE
O.C.–ON CENTER
SICPP–SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
UG–UNDERGROUND
CONC–CONCRETE
CO –CLEAN OUT
TYP–TYPICAL
R–RADIUS
BC–BOTTOM OF CURB
TC–TOP OF CURB
TW–TOP OF WALL
BW–BOTTOM OF WALL
BS–BOTTOM OF STAIRS
PERF–PERFORATED
MIN–MINIMUM
MAX–MAXIMUM
INV–INVERT
CB–CATCH BASIN
MH–MANHOLE
DI–DRAINAGE INLET

ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

NOT FOR CONSTRUCTION

FINAL

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
Phone 585-905-0360
Fax: 585-465-8205
4 2 BEEMAN ST
CANANDAIGUA, NY 14424
www.marksengineering.com bmarks@marksengineering.com

STATE OF NEW YORK
BRENNAN A MARKS
083162
LICENSED PROFESSIONAL ENGINEER

STAMP

STAMP

REVISIONS

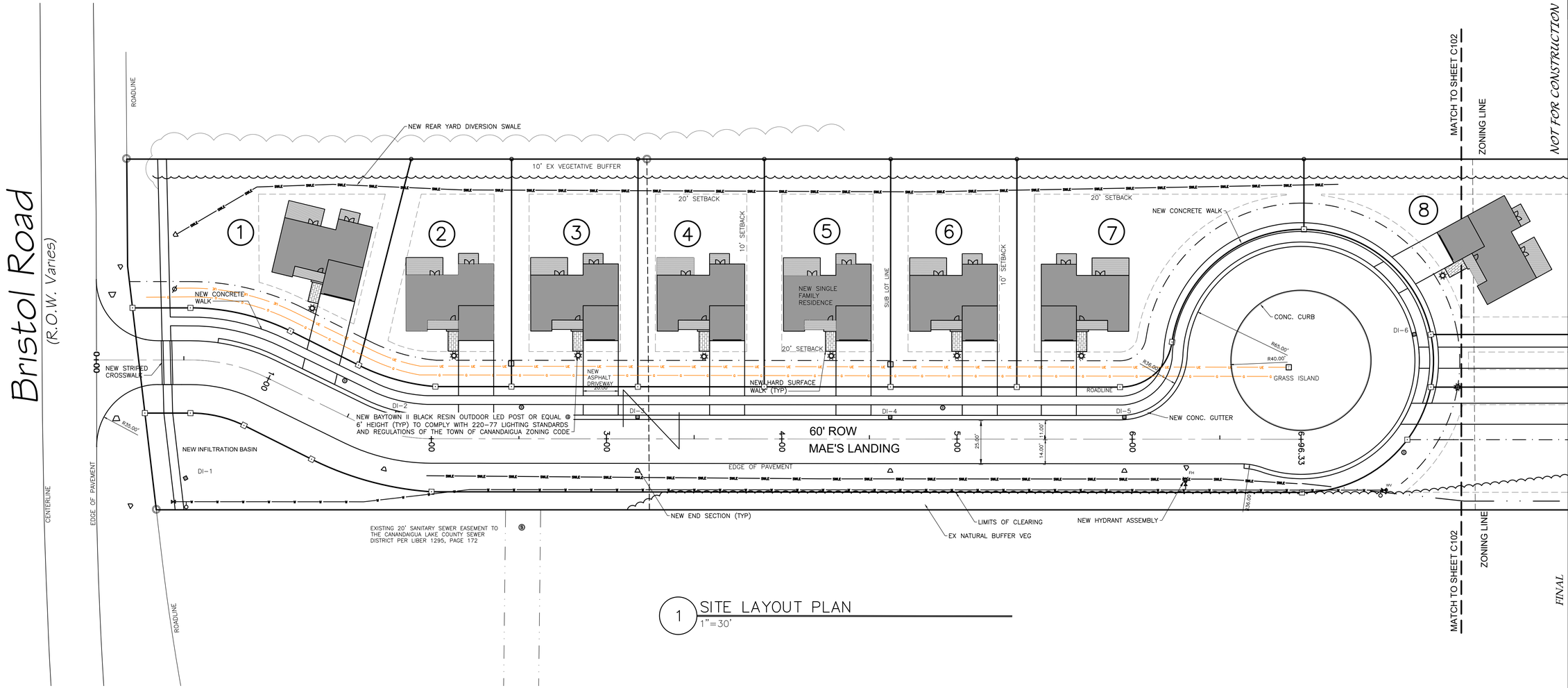
NO	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
SITE PLAN

DRAWN BY:	JFS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C100



1 SITE LAYOUT PLAN
1"=30'

NOT FOR CONSTRUCTION

FINAL

LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	OHE elec	E/T
R.O.W. line		
Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
Fence Line	x x	x x
Contour Line	99	

ABBREVIATIONS:
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ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA - SEPTEMBER 2018

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
42 BEDMAN ST
CANANDAIGUA, NY 14424
Phone: 585-905-0260
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www.marksengineering.com bmarks@marksengineering.com

STAMP

BRENNAN A MARKS
068182
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK

STAMP

NO	DATE	DESCRIPTION OF REVISION	BY

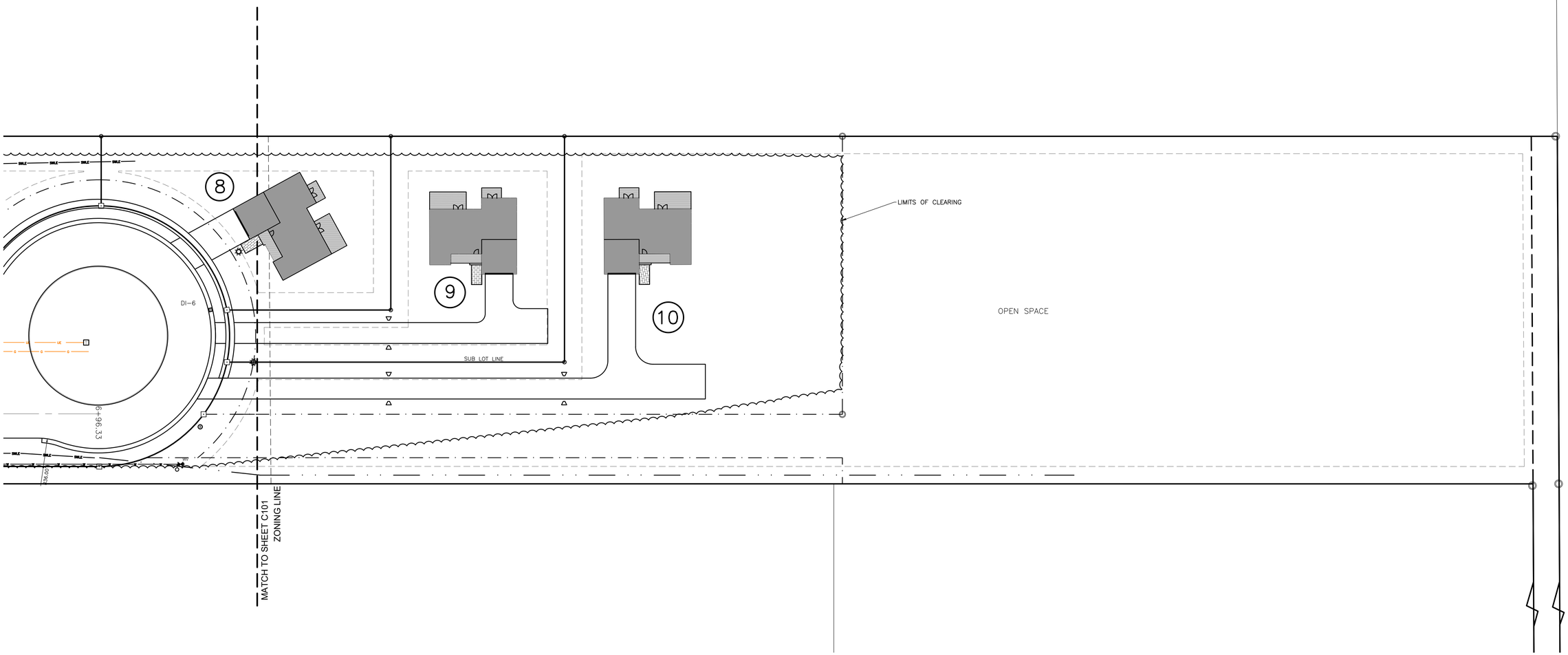
REVISIONS

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE: SITE PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C101



1 SITE LAYOUT PLAN
1"=30'

LEGEND

EXISTING	PROPOSED	
		Iron pin or pipe found
		Benchmark
		Utility pole
		Hydrant
		Light pole
PERC TEST	DEEP HOLE	
OHE elec	E/T	Utility Lines
		R.O.W. line
		Property line
		Easement line
		Centerline
SWLE SWLE	SWLE SWLE	Drainage
x x	x x	Fence Line
99	99	Contour Line

ABBREVIATIONS:
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ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
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www.marksengineering.com bmarks@marksengineering.com

STATE OF NEW YORK
BRENNAN A MARKS
083182
LICENSED PROFESSIONAL ENGINEER
STAMP

STAMP

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

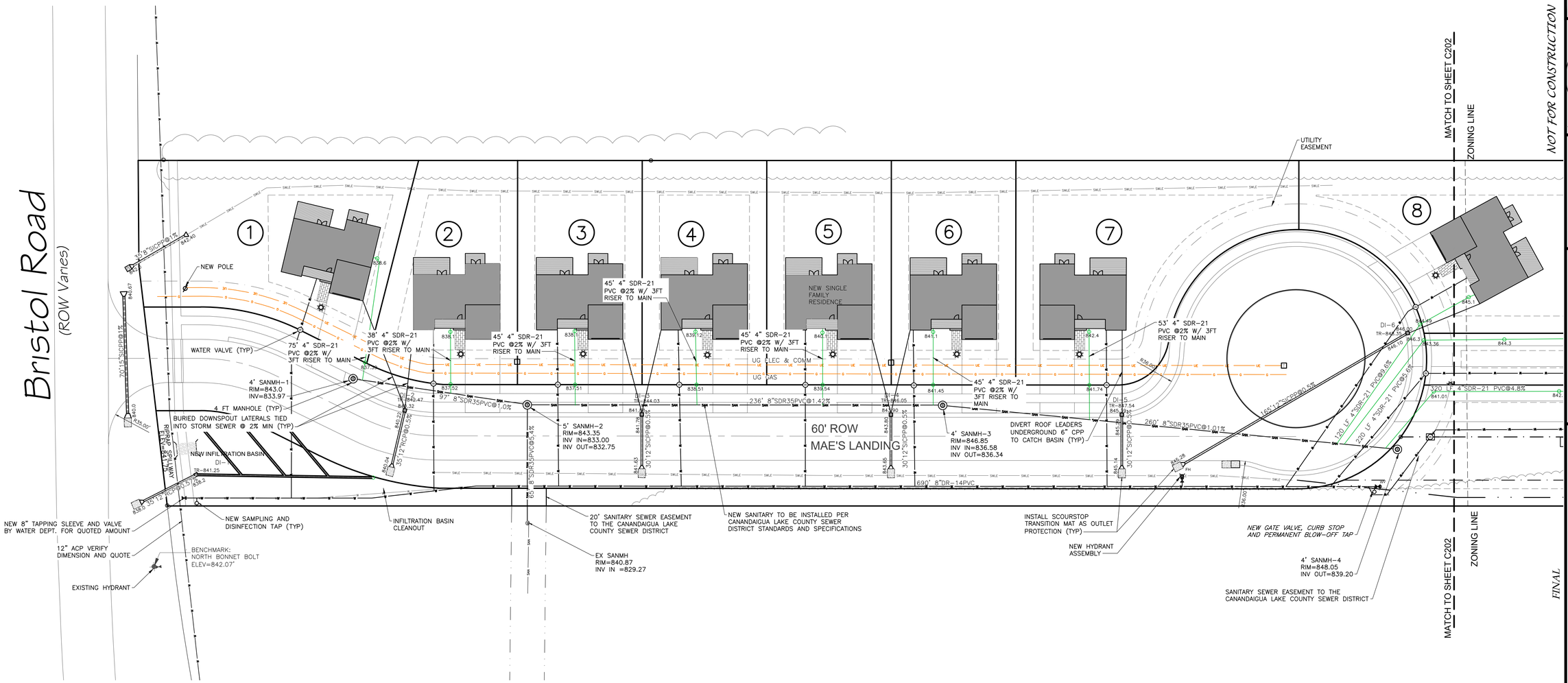
DRAWING TITLE:
SITE PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C102

Bristol Road

(ROW Varies)



LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	OHE elec	E/T
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Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
Fence Line	X X	x x
Contour Line	99	99

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NOTES

(1) ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

(2) ALL SANITARY SEWER INSTALLATION SHALL COMPLY WITH GUIDELINES FOR SANITARY SEWER SYSTEM CONSTRUCTION IN CANANDAIGUA LAKE COUNTY SEWER DISTRICT AND HONEOYE LAKE CONSOLIDATED COUNTY SEWER DISTRICT

(3) SEWER WARNING TAPE IS TO BE PLACED TWELVE INCHES OVER SANITARY LATERALS.

1 SITE UTILITY PLAN
1"=30'

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

NOT FOR CONSTRUCTION

FINAL

MarksEngineering
42 BEEMAN ST
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www.marksengineering.com bmarks@marksengineering.com

STAMP

STATE OF NEW YORK
BRENNAN A MARKS
093182
LICENSED PROFESSIONAL ENGINEER

STAMP

NO	DATE	DESCRIPTION OF REVISION	BY

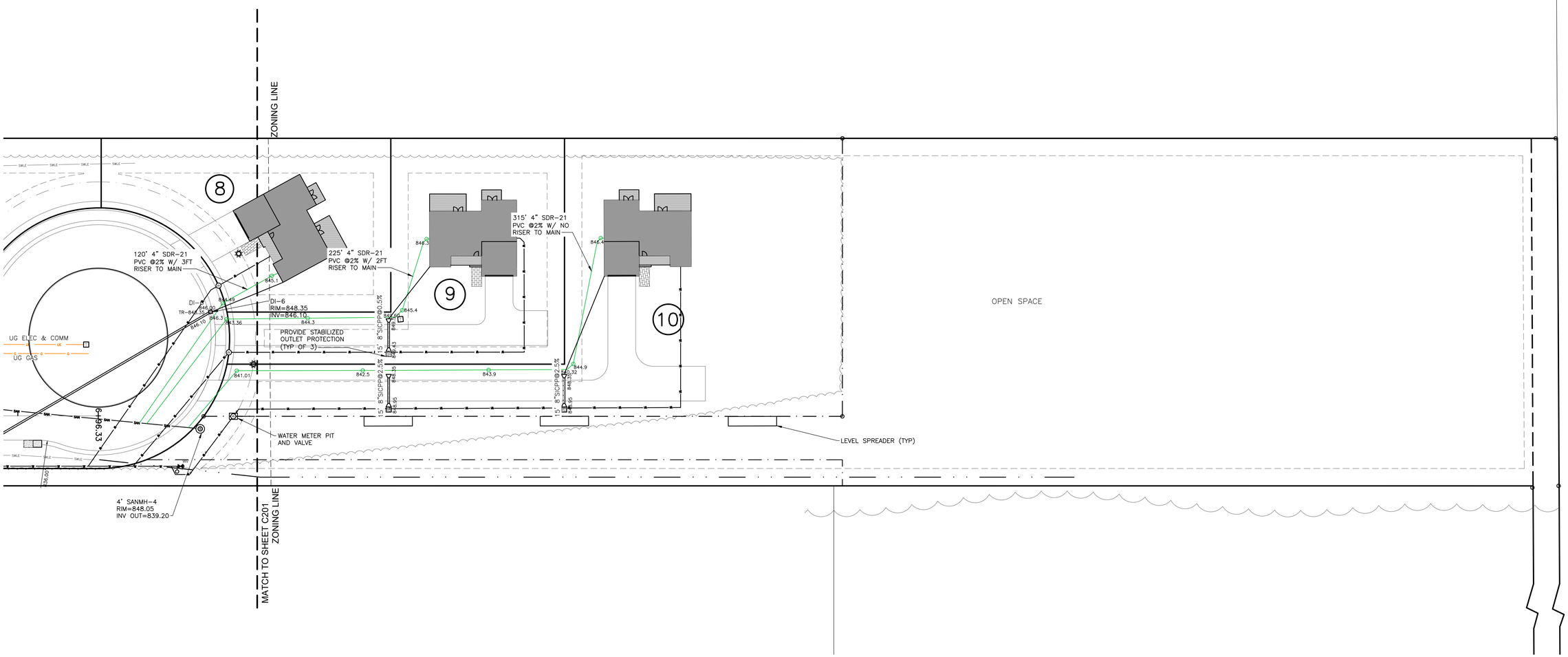
REVISIONS

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
UTILITY PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C201



1 SITE UTILITY PLAN
1"=30'

LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	OHE elec	E/T
R.O.W. line		
Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
Fence Line	x x	x x
Contour Line	99	99

ABBREVIATIONS:
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ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

NOT FOR CONSTRUCTION

FINAL

STAMP

STAMP

MarksEngineering
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CANANDAIGUA, NY 14424
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Fax 585-465-8205
www.marksengineering.com bmarks@marksengineering.com

BRENNAN A MARKS
083182
LICENSED PROFESSIONAL ENGINEER
STATE OF NEW YORK

REVISIONS

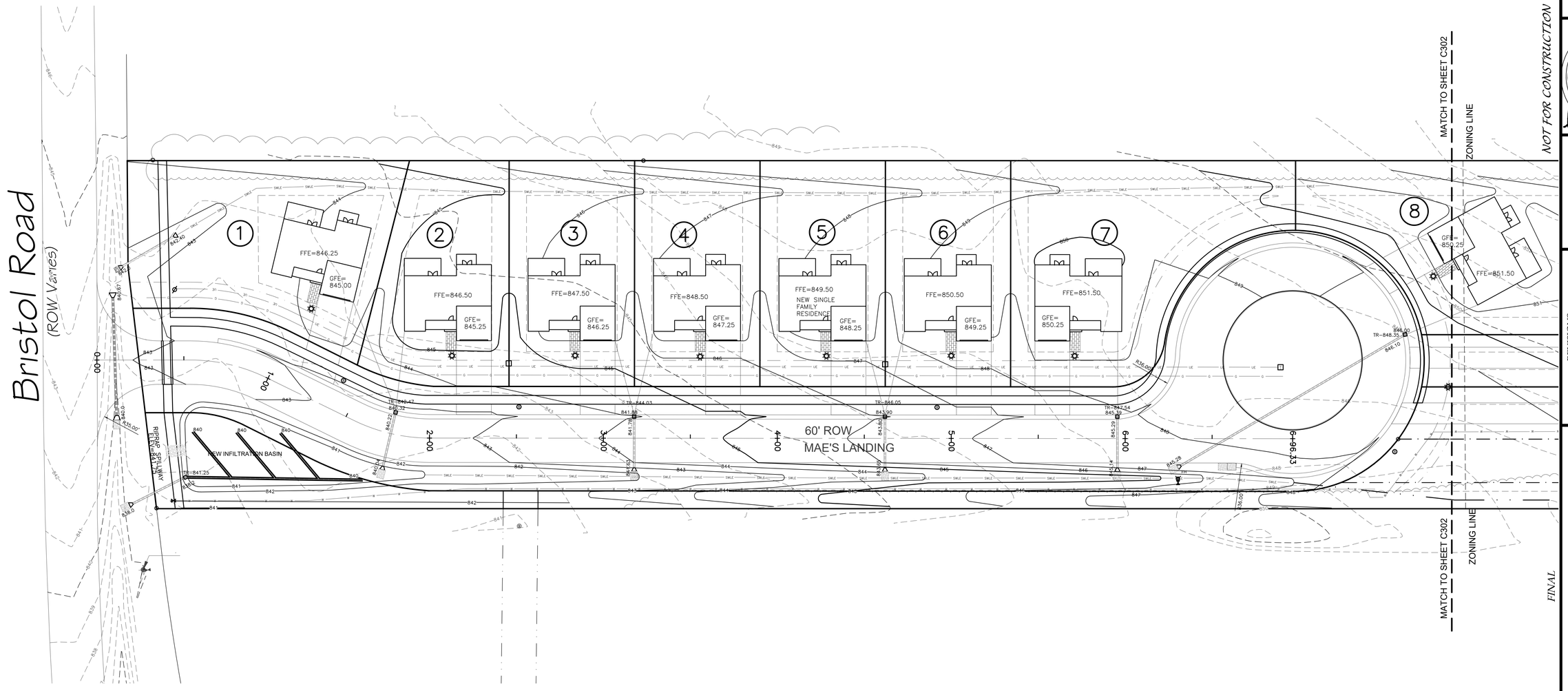
NO	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
UTILITY PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C202



LEGEND

- Iron pin or pipe found
- Benchmark
- Utility pole
- Hydrant
- Light pole
- PERC TEST
- DEEP HOLE

EXISTING	PROPOSED	
—OHE— elec	E/T	Utility Lines
		R.O.W. line
		Property line
		Easement line
		Centerline
—SWLE— —SWLE—	—SWLE— —SWLE—	Drainage
—x— —x—	—x— —x—	Fence Line
—qq—		Contour Line

ABBREVIATIONS:
EX–EXISTING
CPP–CORRUGATED POLYETHYLENE PIPE
O.C.–ON CENTER
SCPP–SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
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ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

1 SITE GRADING PLAN
1"=30'

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
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CANANDAIGUA, NY 14424
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Fax: 585-485-9205
www.marksengineering.com bmarks@marksengineering.com

STATE OF NEW YORK
BRENNAN A MARKS
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LICENSED PROFESSIONAL ENGINEER
STAMP

STAMP

NO.	DATE	DESCRIPTION OF REVISION	BY

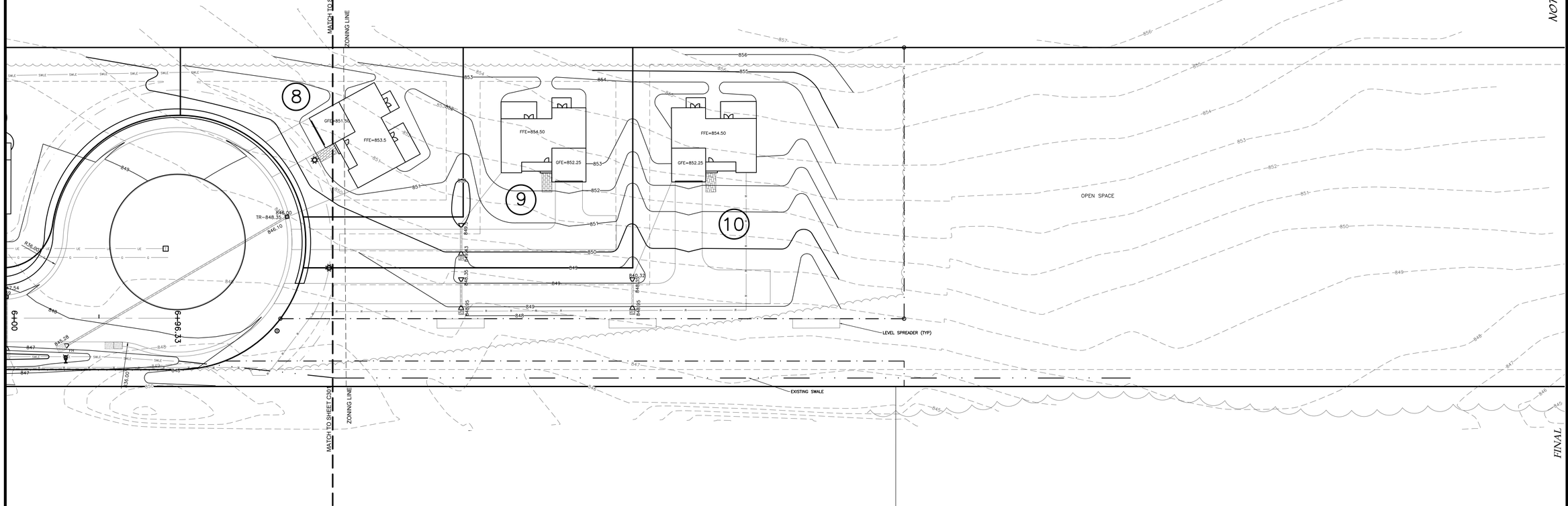
REVISIONS

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
GRADING PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C301



LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	CHE elec	E/T
R.O.W. line		
Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
Fence Line	x x	x x
Contour Line	99	

ABBREVIATIONS:
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1 SITE GRADING PLAN
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NOT FOR CONSTRUCTION

FINAL

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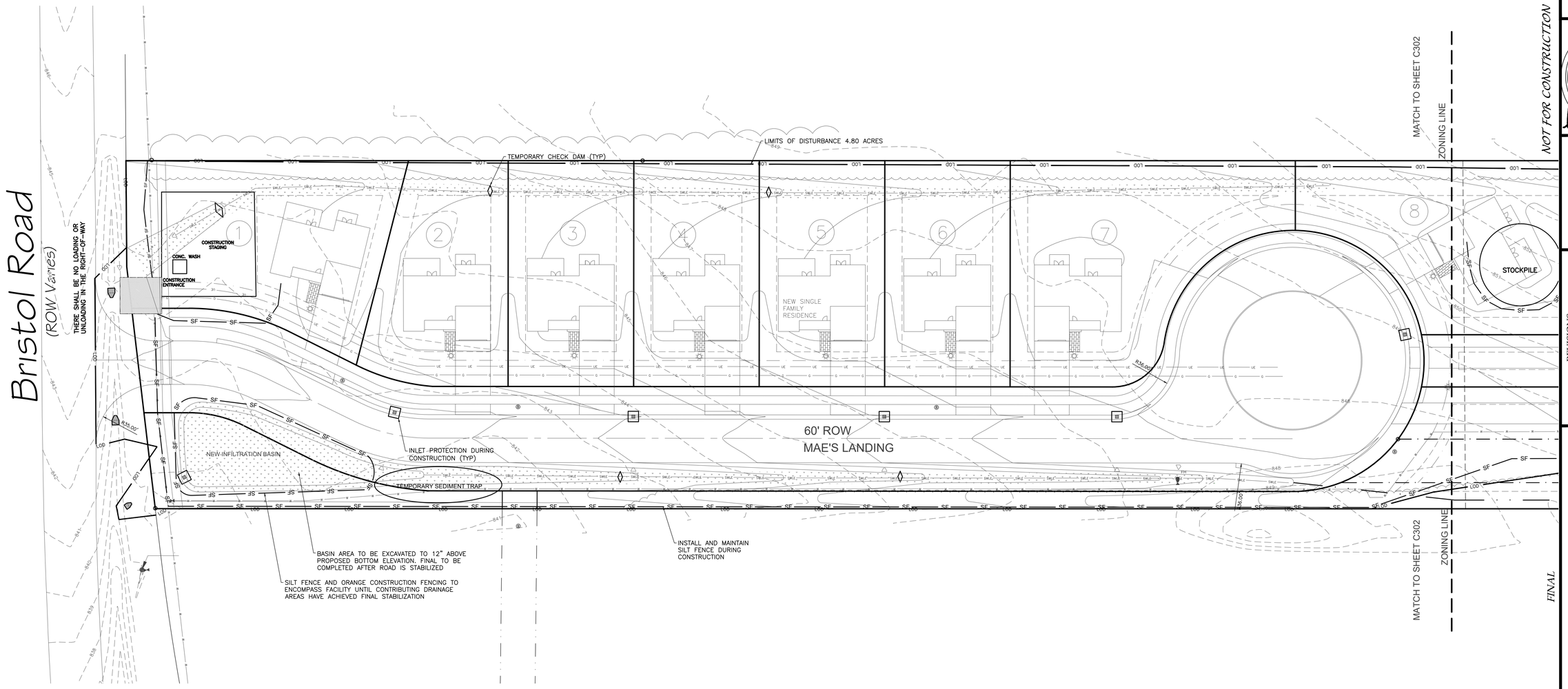
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
GRADING PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C302



NOT FOR CONSTRUCTION

FINAL

LEGEND

	EXISTING	PROPOSED
Iron pin or pipe found		
Benchmark		
Utility pole		
Hydrant		
Light pole		
PERC TEST / DEEP HOLE		
Utility Lines	OHE elec	E/T
R.O.W. line		
Property line		
Easement line		
Centerline		
Drainage	SWLE SWLE	SWLE SWLE
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MIN–MINIMUM
MAX–MAXIMUM
INV–INVERT
CB–CATCH BASIN
MH–MANHOLE
DI–DRAINAGE INLET

INFILTRATION BASIN SEED MIX:
ERNST SEEDS– FLOODPLAIN MIX
ITEM #: ERNMX–154
SEEDING RATE: 20LB PER ACRE

ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

1 EROSION AND SEDIMENT CONTROL PLAN
1"=30'

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
42 BEEMAN ST
CANANDAIGUA, NY 14424
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STAMP

STAMP

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
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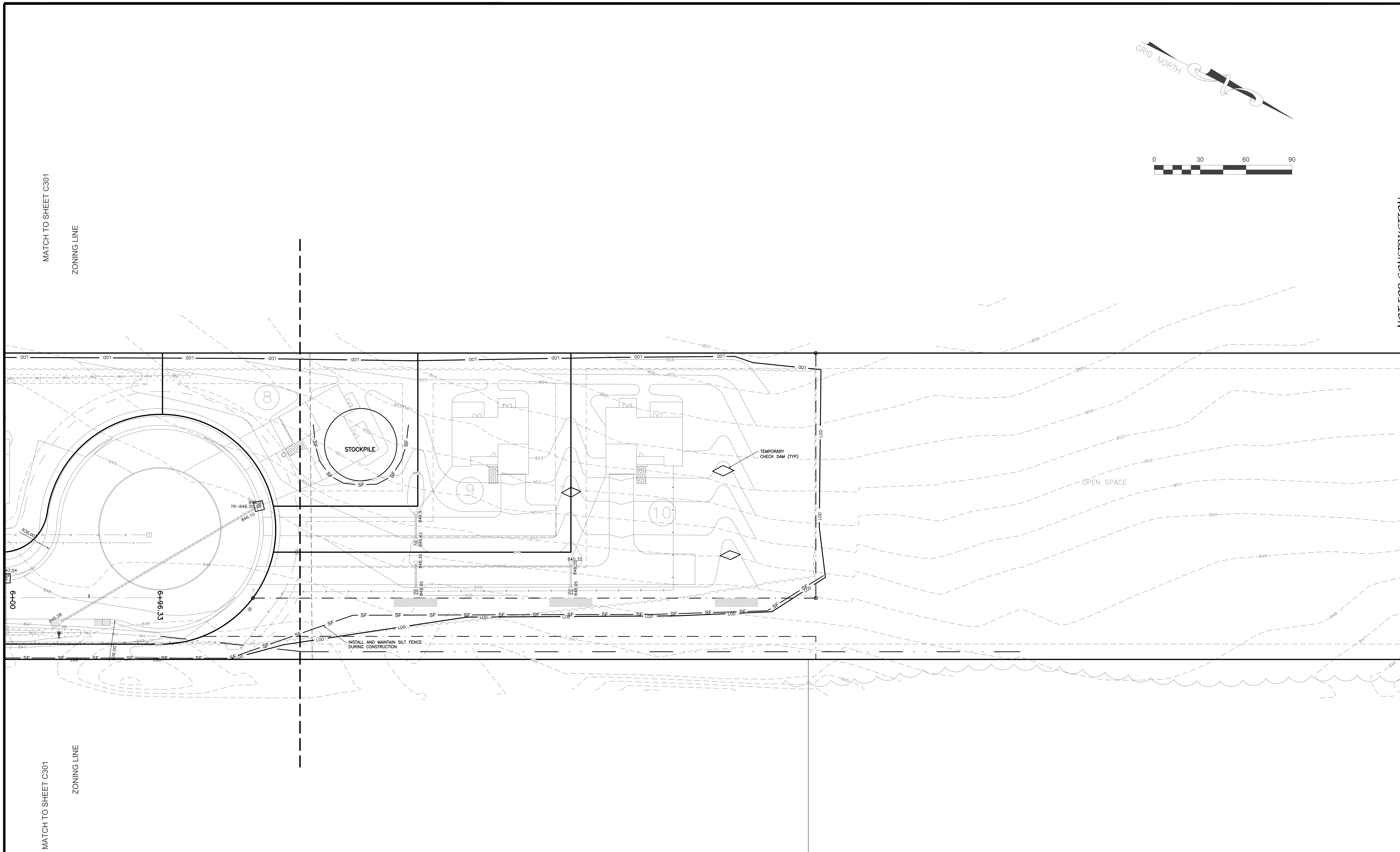
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
SEDIMENT & EROSION PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C401



LEGEND

	EXISTING	PROPOSED	
Iron pin or pipe found	OHE elec	E/T	Utility Lines
Benchmark			R.O.W. line
Utility pole			Property line
Hydrant			Easement line
Light pole			Centerline
	SWLE	SWLE	Drainage
	X	X	Fence Line
PERC TEST / DEEP HOLE		99	Contour Line

ABBREVIATIONS:
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BS–BOTTOM OF STAIRS
PERF–PERFORATED
MIN–MINIMUM
MAX–MAXIMUM
INV–INVERT
CB–CATCH BASIN
MH–MANHOLE
DI–DRAINAGE INLET

ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

INFILTRATION BASIN SEED MIX:
ERNST SEEDS– FLOODPLAIN MIX
ITEM #: ERNMX–154
SEEDING RATE: 20LB PER ACRE

1 EROSION AND SEDIMENT CONTROL PLAN
1"=30'

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

MarksEngineering
42 BEEMAN ST.
CANANDAIGUA, NY 14424
www.marksengineering.com bmarks@marksengineering.com
Phone 585-905-0360
Fax: 585-485-6205

STATE OF NEW YORK · BRENNAN A MARKS · LICENSED PROFESSIONAL ENGINEER · 093182

STAMP

STAMP

REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

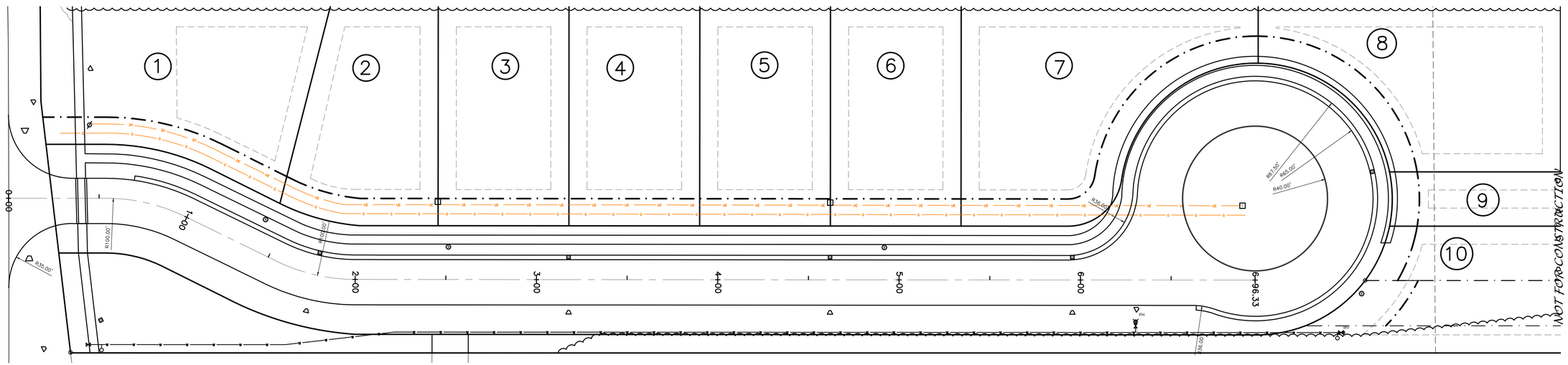
FINAL

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO STATE OF NEW YORK

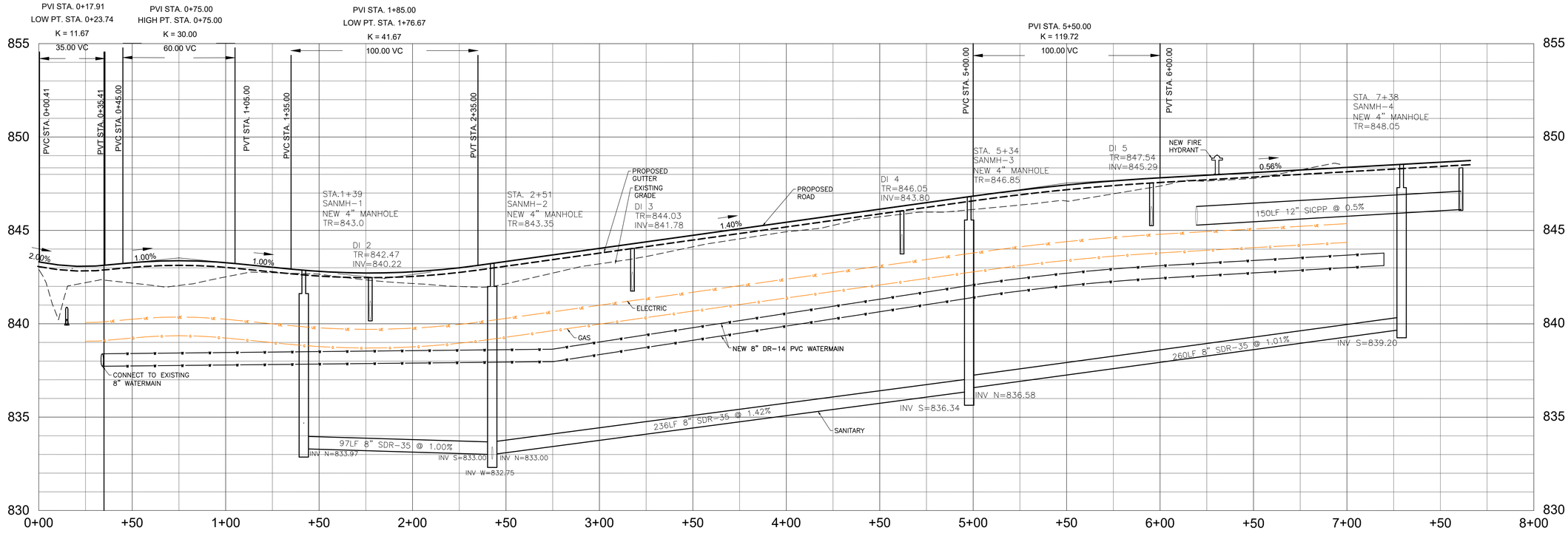
DRAWING TITLE:
SEDIMENT & EROSION PLAN

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C402



1 ROAD LAYOUT
1"=30'



1 ROAD PROFILE
VERT: 1"=3' HORIZ: 1"=30'

ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE TOWN OF CANANDAIGUA SITE DESIGN AND DEVELOPMENT CRITERIA – SEPTEMBER 2018

FINAL

WATER/HIGHWAY SUPERINTENDENT DATE

PLANNING BOARD CHAIRMAN DATE

TOWN ENGINEER DATE

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STATE OF NEW YORK
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093182
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STAMP

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REVISIONS

NO.	DATE	DESCRIPTION OF REVISION	BY

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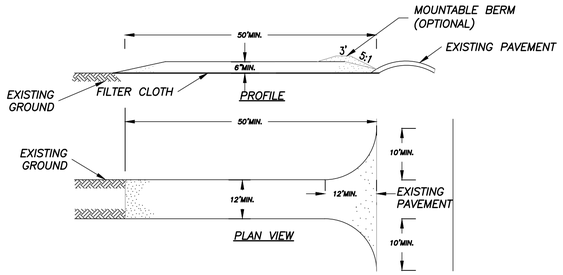
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
ROAD PROFILE/ALIGNMENT

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C500



CONSTRUCTION SPECIFICATIONS

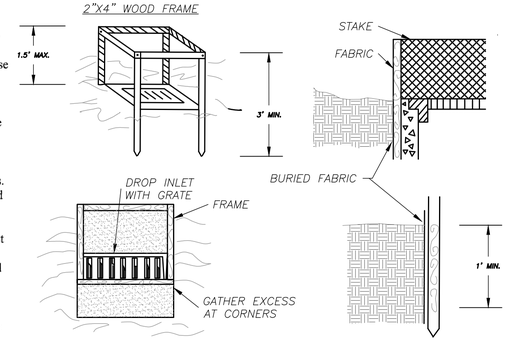
1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE GARAGE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH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

1 STABILIZED CONSTRUCTION ENTRANCE
NTS

CANANDAIGUA LAKE COUNTY SEWER DISTRICT

STANDARD SANITARY SEWER PLAN NOTES:

1. Sewer permits and permits for work within Ontario County Highway rights of way must be purchased in advance at the Ontario County Public Works office located at 2962 County Road 48 in the Town of Hopewell. Call 585-396-4000 for information.
2. Sanitary sewer construction and/or improvements shall be in accordance with the most recent standards and specifications of the Canandaigua Lake County Sewer District, N.Y.S. Department of Environmental Conservation, N.Y.S. Department of Health, the latest edition of *Recommended Standards for Wastewater Facilities* and any other agencies having jurisdiction.
3. Sanitary sewer main gravity pipe shall be 8" dia. or larger PVC Class SDR-35 or SDR-21 with elastomeric joints. Laterals shall be 4" dia. SDR-21 with elastomeric joints. Actual field conditions may require additional pipe or backfill reinforcement. The sanitary sewer will be designed by the developer's engineer. Field changes must be approved by the sewer district.
4. The sanitary sewer is designed to provide gravity service to all adjacent building basements. Exceptions have been approved by the sewer district and are clearly noted on the utility plan. Basement floor elevations will be shown on the sanitary sewer profile for each lot that will not be served by gravity laterals.
5. The contractor shall locate, mark and preserve any right of way monuments or survey control in the area of construction.
6. Utility locations shown are approximate only. The contractor shall determine exact location of utilities, excavating to expose the utility, if necessary in the area of construction, before commencing construction. Contact U.F.P.O. at 1-800-962-7962 at least 72 hours prior to construction.
7. The sanitary sewer shall be located a minimum horizontal distance of 10' from any existing or proposed water main (as measured from the outside of the sewer to the outside of the water main). In cases where the sanitary sewer crosses a water main, the minimum vertical separation shall be 18" (measured out-to-out). The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints.
8. A letter of credit, or engineer approved equivalent, for an amount equal to the estimated cost of construction, inspection, record drawings, dedication documents and related expenses for the sanitary sewer plus an additional 10% for contingencies must be submitted to the Commissioner of Public Works before a permit is issued or sewer construction may commence.
9. The contractor shall provide the District with shop drawings and material specifications that have been pre-approved by the design engineer before a permit will be issued.
10. The developer is responsible for the preparation of all required easement maps and descriptions and submission to the District for approval. Permits will not be issued prior to the easement documents being signed by the Commissioner and recorded in the County Clerk's office.
11. The contractor is responsible for compliance with OSHA requirements in all aspects of construction, paying particular attention to requirements for open trench and confined space. Entry into any District structure must comply with all District and OSHA approved procedures for confined spaces.
12. When sanitary sewer construction activities begin, the contractor shall plug the main at the connecting manhole. Plugs shall not be removed until the completed sewer line is tested and approved for use.
13. The contractor shall be responsible for maintaining sanitary flows at all times by methods acceptable to the developer's engineer and the District.
14. The sewer line shall be laid using a pipe laser. Grade shall be checked every 100 feet using a surveyor's level to insure the correct grade is being maintained.
15. Floor drains in the basement or garage are to be connected to the sanitary sewer. Floor drains do not include foundation or footer drains installed to intercept uncontaminated ground water. All discharges to the sanitary sewer must comply with effluent limits of the Ontario County sewer use law. Foundation and footer drains shall be constructed in a manner that will prohibit ground water from draining into the sanitary sewer pipe cradle.
16. Openings in existing manholes shall be made with a core saw. A rubber, water-tight pipe-to-manhole boot adapter or other District approved connector conforming to ASTM C-923, shall be used to make the connection to the existing manhole.
17. The contractor shall perform all existing manhole modification operations in such a manner to ensure no debris or construction materials enter the sanitary sewer system.
18. The contractor shall exercise caution when performing existing manhole modification operations. Any damage to the existing slab, barrel or any other part of the structure shall be replaced in kind to the satisfaction of the Canandaigua Lake County Sewer District representative at the contractor's expense.
19. Existing manholes that are modified in any manner shall be subject to vacuum testing per District requirements.
20. Connections requiring openings in asbestos cement pipe will be designed, inspected and certified by the design engineer or representative thereof.
21. All pipes entering and exiting manholes shall have a flexible water-tight joint no less than 1 foot and no greater than 3 feet from the outside wall of the manhole.
22. Manholes deeper than 14 feet, less than 5 feet in depth, or having three or more pipe connections shall have a minimum inside diameter of 5 feet.
23. Any excavation not backfilled by the end of the workday shall be fenced, barricaded and lighted for safety and protection of the public.
24. The contractor shall be responsible for the removal of existing sanitary mains, structures and appurtenances, if any, needed to complete the work.
25. Existing laterals to be disconnected must be permanently plugged or capped at the easement or right of way line under the direction of the Canandaigua Lake County Sewer District Supervisor. The contractor is required to obtain a permit prior to performing the work. The location of the plug or cap shall be recorded for as-built drawing purposes.
26. Lateral clean outs will be provided at the right of way line or sanitary sewer easement line, whichever is furthest from the sewer main, and every 90 linear feet thereafter.
27. The contractor shall take and record field measurements to all wyes, clean outs and lateral plugs as well as lengths of risers and depths at lateral plugs. The information will be given to the developer's engineer for use in preparing record drawings.
28. Following project completion and 30 days after the backfill has been in place the following tests shall be performed on gravity sanitary sewer main:
    a. Infiltration/ex-filtration tests on sewer main and manholes. Air pressure testing for sewer mains and vacuum testing for manholes is recommended. Tests on manholes may be performed only after manhole benches and inverts are complete.
    b. A deflection test using a rigid ball or mandrel having a diameter of 95% of the inside diameter of the pipe. Mechanical pulling devices will not be used.
    c. The sewer line will be televised and lamped after all other tests are complete. A good quality copy of the DVD or video-tape and related records will be submitted for evaluation to Canandaigua Lake County Sewer District. Prior to televising the sewer line shall be flushed and cleared of dirt, stones and debris. If permission is granted to remove the plug at the connecting manhole prior to flushing operation, provide downstream screens or other devices to prevent debris from entering the County's sewer system. Sections of pipe repaired or re-flushed will be re-televised until acceptable.
29. Upon project completion and District approval, the developer's engineer will submit record drawings on mylar and in electronic format, tied to NAD83 Horizontal and NAVD 88 Vertical datum. The drawings will show actual field measured locations, lengths, elevations and types of pipe and appurtenances, including wyes and laterals, as well as profiles, easements and any other related information requested by the District. Mylar drawings will be stamped/sealed and signed by a professional engineer or surveyor, and shall be at standard engineering scale (1" = 50' min.), and on standard sized drawings no smaller than 11" x 17" and no larger than 24" x 36". Project monumentation and permanent benchmarks shall be shown with coordinate and/or elevation information.
30. The developer is responsible for providing easement maps and descriptions and sewer dedication documents. Maps will be recorded with dedication documents in the Ontario County Clerk's office, and therefore need to be submitted on legal size (8 ½" x 14") paper.
31. Prior to releasing the retainage from the original letter of credit, a maintenance bond for a minimum of 10% of the total sanitary sewer-related cost of the project in favor of the Canandaigua Lake County Sewer District will be submitted to the Commissioner. The bond will expire no sooner than one year from the date of dedication of the sewer, or the release date of the retainage from the letter of credit, whichever occurs last.

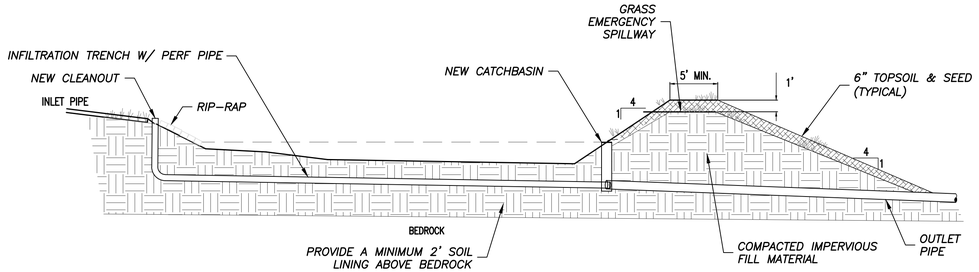


3 DETAIL: FILTER FABRIC INLET PROTECTION
NOT TO SCALE

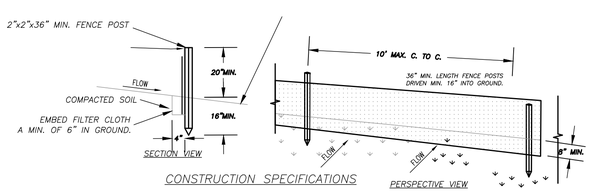
NOTES
1. FILTER FABRIC SHALL HAVE AN EOS OF 40–85. BURLAP MAY BE USED FOR SHORT–TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2x4 WOOD OR EQUIV. MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2x4 WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVERFLOW STABILITY.

NOT FOR CONSTRUCTION

SIDE VIEW



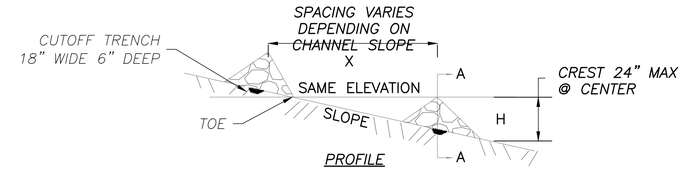
4 DETENTION/ INFILTRATION SYSTEM
NOT TO SCALE

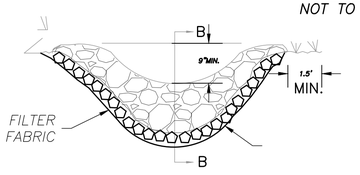


CONSTRUCTION SPECIFICATIONS

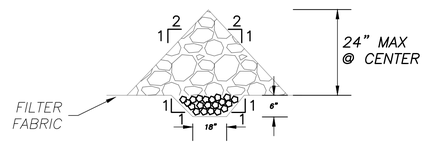
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO POSTS WITH STAPLES.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER–LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIRONMENT, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

2 TYPICAL SILT FENCE DETAIL
NTS





X H (Ft)
SLOPE
(FT/FT)



5 DETAIL: TYPICAL CHECK DAM
NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.

MAXIMUM DRAINAGE AREA 2 ACRES.

FINAL

MarksEngineering
Phone 585-905-0360
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STATE OF NEW YORK
BRENNAN A. MARKS
083182
LICENSED PROFESSIONAL ENGINEER
STAMP

STAMP

REVISIONS

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SITE PLANS PREPARED FOR:
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10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
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TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
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CHECKED BY:	BAM
SCALE:	AS NOTED
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DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

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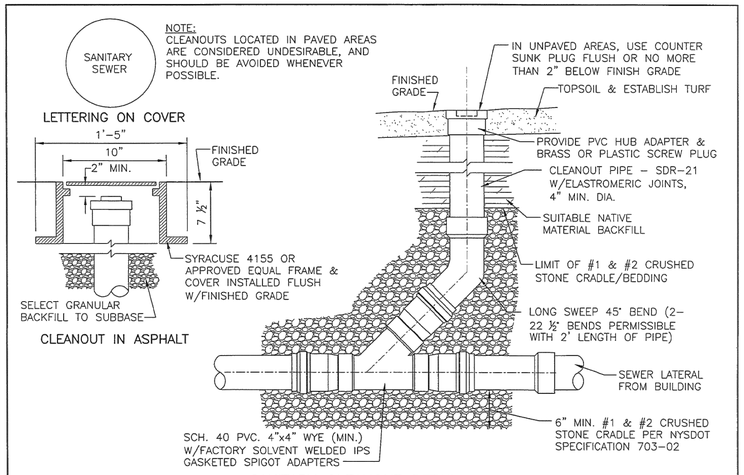
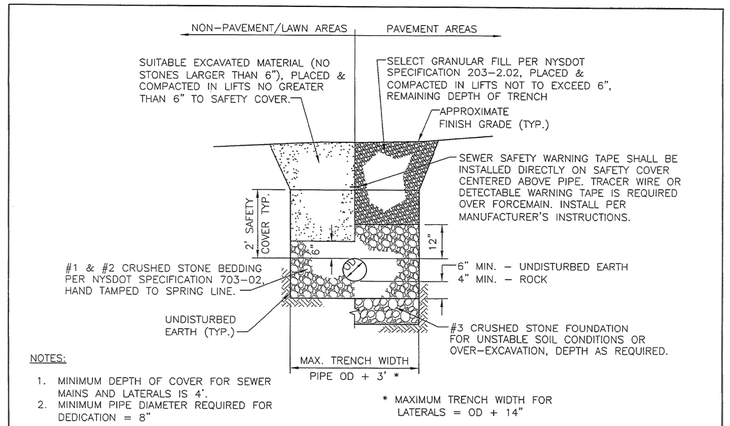


SANITARY CLEANOUT DETAIL

PROJECT:	SA_STDS	DWG:	CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE:	N.T.S.	REV:	08/2010	



NOTES:

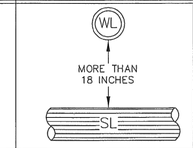
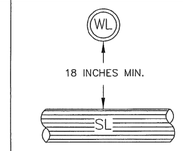
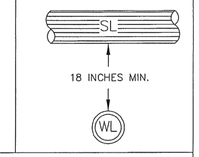
1. MINIMUM DEPTH OF COVER FOR SEWER MAINS AND LATERALS IS 4'.
2. MINIMUM PIPE DIAMETER REQUIRED FOR DEDICATION = 8"

* MAXIMUM TRENCH WIDTH FOR LATERALS = OD + 14"

SANITARY SEWER MAIN AND LATERAL TRENCH & BEDDING DETAIL

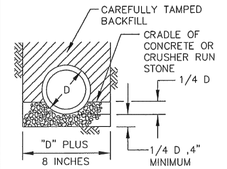
PROJECT:	SA_STDS	DWG:	CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE:	N.T.S.	REV:	08/2010	

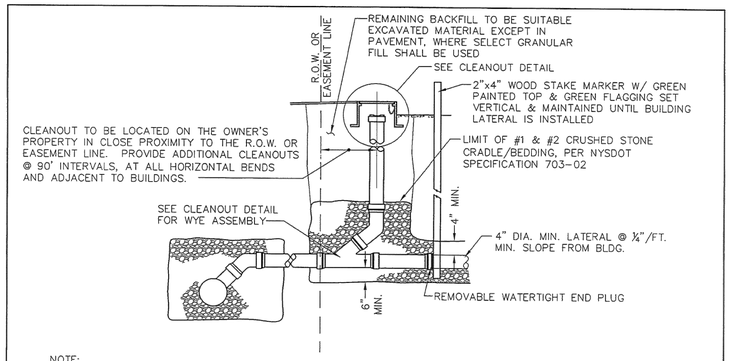
WATERMAIN / SEWER CROSSING DETAIL

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM.
II WATER LINE ABOVE SEWER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING
III SEWER LINE ABOVE WATER LINE		A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH SECTION DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.

WL (WATER LINE)
SL (SEWER LINE, SANITARY OR STORM)
D (OUTSIDE DIAMETER OF PIPE)

IN NO CASE SHALL PIPES BE CLOSER THAN 18 INCHES APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE

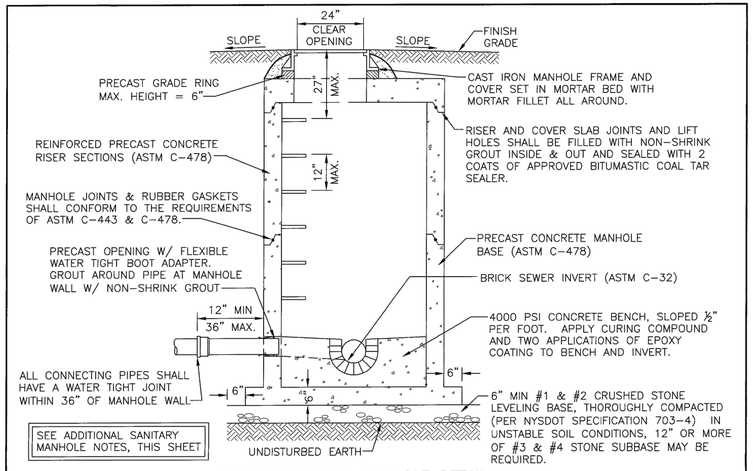




NOTE:
4" OR 6" DIA. SDR 21 SHALL BE USED FOR NEW LATERALS, RISERS, CLEANOUTS & WYE CONNECTIONS. 22 ½° AND 45° BENDS ONLY – 90° BENDS AND TEES ARE UNACCEPTABLE. TWO 22 ½° BENDS MAY BE CONNECTED W/ A 2' (MIN.) LENGTH OF STRAIGHT PIPE. ALL JOINTS MUST HAVE RUBBER GASKETS. GLUED JOINTS ARE PROHIBITED.

SANITARY SEWER LATERAL DETAIL DISTRICT–OWNED SEWER MAIN

PROJECT:	SA_STDS	DWG:	CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE:	N.T.S.	REV:	08/2010	



SANITARY SEWER MANHOLE DETAIL

PROJECT:	SA_STDS	DWG:	CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE:	N.T.S.	REV:	10/2016	

MANHOLE NOTES:

1. MANHOLES LESS THAN 5 FEET DEEP, GREATER THAN 14 FEET DEEP, OR HAVING THREE OR MORE PIPE CONNECTIONS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 5 FEET.
2. REINFORCED PRECAST CONCRETE FLAT COVER SLABS WITH 24" DIA. ECCENTRIC MASONRY OPENING SHALL BE USED FOR ALL MANHOLES.
3. ALL BENCHES, INVERTS AND INTERIOR WALLS OF THE MANHOLE BASE TO 12" ABOVE THE HIGHEST PIPE SHALL HAVE TWO APPLICATIONS OF EPOXY COATING (SIKAGARD 62, DURALKOTE 500 OR OTHER APPROVED EQUAL). THE REMAINING INTERIOR WALLS AND ENTIRE EXTERIOR SURFACE SHALL BE COATED WITH TWO APPLICATIONS OF APPROVED BITUMASTIC COAL TAR SEALER (ASTM D–450, TYPE B).
4. MANHOLE STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE, CAST IN PLACE BY MANUFACTURER.
5. MANHOLE FRAME AND COVER SHALL BE EAST JORDAN CO. #1045 OR OTHER DISTRICT APPROVED EQUAL. COVER SHALL HAVE EPIC® SLOT AND BE GASKETED WITH "SANITARY SEWER" CAST IN LID WITH 2" LETTERING (MAX. SIZE).
6. FOR MANHOLES NOT LOCATED IN PAVEMENT, BACKFILL WITH SUITABLE NATIVE MATERIAL PER NYSDOT SPECIFICATION 203–2.01. FOR MANHOLES IN PAVEMENT, BACKFILL WITH CRUSHER RUN STONE, TYPE 2 PER NYSDOT SPECIFICATION 304–2.02.

PROJECT:	SA_STDS	DWG:	CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE:	N.T.S.	REV:	10/2016	

FINAL

NOT FOR CONSTRUCTION

MarksEngineering
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CANANDAIGUA, NY 14424
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STATE OF NEW YORK
BRENNAN A. MARKS
093182
LICENSED PROFESSIONAL ENGINEER
STAMP

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REVISIONS

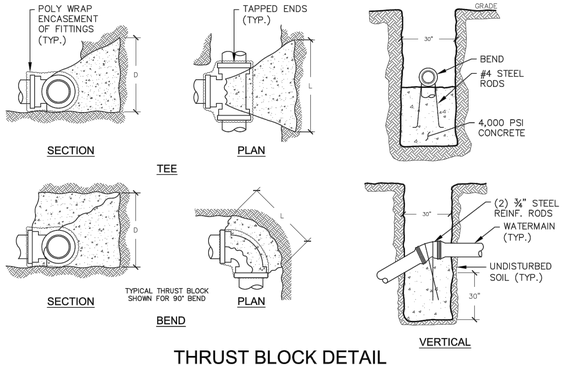
NO.	DATE	DESCRIPTION OF REVISION	BY

SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO
STATE OF NEW YORK

DRAWING TITLE:
DETAILS

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C502



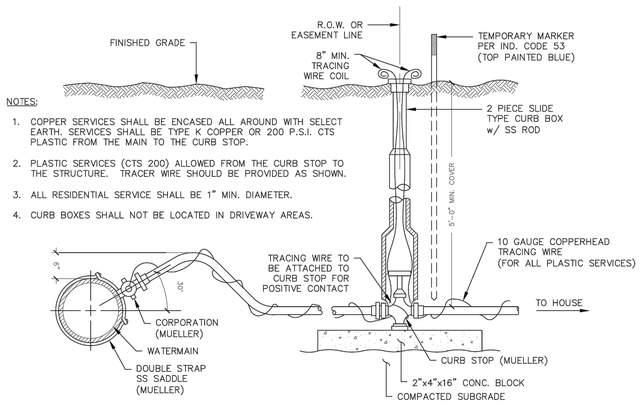
THRUST BLOCK DETAIL

PIPE SIZE (INCHES)	WORKING PRESSURE (PSIG)	TEE OF PLUG L	TEE OF PLUG D	90° BEND L	90° BEND D	45° BEND L	45° BEND D	22-1/2° BEND L	22-1/2° BEND D
4	200	2.00	1.00	2.25	1.25	2.00	0.75	1.25	0.75
	300	2.50	1.25	2.75	1.50	2.25	1.00	1.50	1.00
6	200	3.00	1.25	3.25	1.75	2.50	1.25	2.00	0.75
	300	3.50	1.50	4.00	2.00	3.25	1.50	2.25	1.00
8	200	3.25	2.00	4.25	2.25	3.75	1.75	2.25	1.25
	300	4.00	2.50	5.25	2.75	4.00	2.25	3.00	1.50
10	200	4.25	2.25	5.25	2.50	4.00	2.00	3.00	1.25
	300	5.50	2.50	6.50	3.00	5.00	2.50	4.00	1.50
12	200	5.25	2.50	6.00	3.25	4.50	2.25	3.25	1.75
	300	6.25	3.25	7.50	4.00	5.50	2.75	4.25	2.00
14	200	5.50	3.25	7.25	3.50	5.25	2.50	3.25	2.00
	300	10.25	5.00	9.00	4.25	6.50	3.00	5.00	2.25
16	200	6.5	3.50	8.25	4.00	5.50	3.25	4.50	2.25
	300	8.25	4.25	10.00	5.00	7.25	3.75	5.25	3.00

NOTES:

1. ALL DIMENSIONS ARE IN FEET.
2. BEARING AREAS ARE BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. HEIGHT OF THRUST BLOCK SHOULD BE EQUAL TO OR LESS THAN ½ THE DEPTH FROM THE GROUND SURFACE TO THE BASE OF THE BLOCK.
4. ALL THRUST BLOCKS SHALL CURE A MINIMUM OF SEVEN (7) DAYS BEFORE ANY PRESSURE TESTS ARE CONDUCTED.
5. CONCRETE SHALL BE MINIMUM 3000 PSI.
6. RESTRAINING RODS MAY BE USED IN LEU OF THRUST BLOCKS. METHOD TO USED SHALL BE APPROVED BY ENGINEER PRIOR TO PLACEMENT.

WATERMAIN THRUST BLOCK SCHEDULE



NOTES:

1. COPPER SERVICES SHALL BE ENCASED ALL AROUND WITH SELECT EARTH. SERVICES SHALL BE TYPE K COPPER OR 200 P.S.I. CTS PLASTIC FROM THE MAIN TO THE CURB STOP.
2. PLASTIC SERVICES (CTS 200) ALLOWED FROM THE CURB STOP TO THE STRUCTURE. TRACER WIRE SHOULD BE PROVIDED AS SHOWN.
3. ALL RESIDENTIAL SERVICE SHALL BE 1" MIN. DIAMETER.
4. CURB BOXES SHALL NOT BE LOCATED IN DRIVEWAY AREAS.

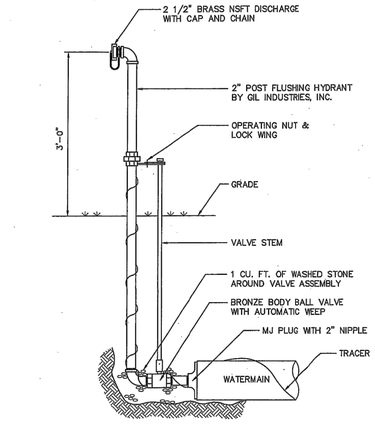
TYPICAL WATER SERVICE

	PIPE DIA. (INCHES)	TEST PRESSURE (P.S.I.) 200	225	250	275	300
		ALLOWABLE LEAKAGE (gal/hour)				
D.I.P. PER 1,000 L.F. OF LINE	6	0.64	0.68	0.71	0.75	0.78
	8	0.85	0.90	0.95	1.00	1.04
	10	1.06	1.13	1.19	1.24	1.30
	12	1.28	1.35	1.42	1.49	1.56
P.V.C. PER 1,000 L.F. OF LINE	6	0.57	0.61	0.64	0.67	0.70
	8	0.76	0.81	0.85	0.90	0.94
	10	0.96	1.02	1.07	1.12	1.17
	12	1.15	1.22	1.28	1.34	1.40

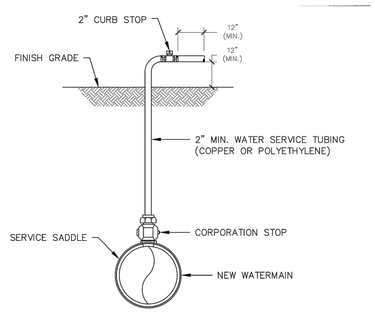
NOTES:

1. TEST PRESSURE TO BE 200 P.S.I. OR 1.5 x WORKING PRESSURE, WHICHEVER IS GREATER.
2. PRESSURE TESTS SHALL BE CONDUCTED SO THE PIPE SECTIONS ARE WITHIN 10 PSI OF THE TEST PRESSURE LOCATION.
3. PRESSURE TESTS SHALL BE CONDUCTED FOR A MINIMUM OF 2 HOURS.
4. LEAKAGE TESTS AT LINE PRESSURE SHALL BE CONDUCTED OVER A 24 HOUR PERIOD.

WATERMAIN PRESSURE TEST



WATERMAIN BLOW-OFF DETAIL



NOTES:

1. UPON NOTIFICATION FROM THE HEALTH DEPARTMENT THAT A SATISFACTORY WATER SAMPLE HAS BEEN OBTAINED, SHUT DOWN CORPORATION STOP AND REMOVE THE SERVICE TUBING.
2. IMMEDIATELY PRIOR TO PLACING THE WATER MAIN IN SERVICE THE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES (I.E. SAMPLING TAPS, ETC.) AND REPLACE WITH THREADED BRASS PLUGS.
3. FOR DISINFECTION\SAMPLING TAPS THAT ARE NOT NEEDED TO BLOW-OFF, 1" DISINFECTION\SAMPLING TAPS ARE ACCEPTABLE.
4. 1000 LF MAXIMUM DISTANCE BETWEEN SAMPLE TAPS UNLESS OTHERWISE SPECIFIED BY ENGINEER.

TEMPORARY DISINFECTION / SAMPLING TAP / BLOW-OFF

PIPE BEDDING DETAILS FOR WATERMAIN

TYPE OF UTILITY: WATERMAIN
PIPE MATERIAL: PVC PRESSURE PIPE
APPLICABLE PIPE SIZE: 4" TO 24"
TRENCH WIDTH: MAX. O.D. + 24"

TRENCH CONDITIONS: ROCK OR HARD PAN
BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BEDDING IN ROCK OR HARD PAN
BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BACKFILL IN ROCK OR HARD PAN

TRENCH CONDITIONS: WET EARTH (3)
BEDDING SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BEDDING IN WET EARTH
BACKFILL SPECIFICATION: SEE INSTRUCTIONS FOR DUCTILE IRON PIPE, BACKFILL IN WET EARTH

PIPE BEDDING DETAILS FOR WATERMAIN

TYPE OF UTILITY: WATERMAIN
PIPE MATERIAL: PVC PRESSURE PIPE
APPLICABLE PIPE SIZE: 4" TO 24"
TRENCH WIDTH: MAX. O.D. + 24"

TRENCH CONDITIONS: SELECT EARTH

BEDDING SPECIFICATION: THE TRENCH BOTTOM SHALL BE TRUE, EVEN, AND FREE FROM STONES, LARGE DIRT CLODS, OR ANY FROZEN MATERIAL WITH ANY DIMENSION GREATER THAN ½". PIPE TO BE BEEDDED FROM BOTTOM OF TRENCH UP TO 12" ABOVE TOP OF PIPE WITH GRANULAR SAND MEETING THE STANDARDS OF NYSDOT SPEC. 703.03. DEPRESSIONS SHALL BE PROVIDED IN THE TRENCH BOTTOM FOR PIPE BELLS AT EACH JOINT AND TO ALLOW FOR WITHDRAWAL OF PIPE SLINGS. THIS IS TO ASSURE THAT THE PIPE BARREL LIES FLAT ON THE TRENCH BOTTOM.

BACKFILL SPECIFICATION: ALL BACKFILL MATERIAL SHALL BE FREE FROM CINDERS, ASHES, REFUSE, VEGETABLE OR ORGANIC MATERIAL, BOULDERS, ROCKS OR STONES, OR FROZEN MATERIAL AND ANYTHING HAVING A DIMENSION GREATER THEN ½" OR ANY OTHER MATERIAL THAT IN THE OPINION OF THE OWNER IS UNSUITABLE. SAFETY COVER MEASURING 12" DEEP SHALL BE PROVIDED ON TOP OF OF THE BEDDING MATERIAL AND SHALL MEET THE STANDARDS OF GRADATION FOR SELECT GRANULAR FILL (NYSDOT SPEC. 203.2.06. EXCAVATED MATERIAL MAY BE USED FOR BACKFILL PROVIDED THAT SUCH MATERIAL CONSISTS OF LOAM, CLAY, SAND, GRAVEL, OR OTHER MATERIALS THAT IN THE OPINION OF THE OWNER ARE SUITABLE FOR BACKFILLING EXCEPT WITHIN THE LIMITS OF DEDICATED ROADWAYS.

BACKFILL BENEATH DEDICATED ROADWAYS TO BE FULL DEPTH TYPE 2 CRUSHER RUN STONE MEETING THE STANDARDS OF NYSDOT SPEC. 304.12.

THE BALANCE OF THE BACKFILL NEED NOT BE AS CAREFULLY SELECTED AS THE INITIAL MATERIAL. IT SHALL BE PLACED IN UNIFORM LAYERS IN SUCH A MANNER AS TO PROVIDE A UNIFORMLY DENSE BACKFILL LOAD ON THE PIPE AND AVOID UNFILLED SPACES IN THE BACKFILL. ROLLING EQUIPMENT SHALL NOT BE USED UNTIL A MINIMUM OF 18" OF BACKFILL MATERIAL COVER THE TOP OF THE PIPE.

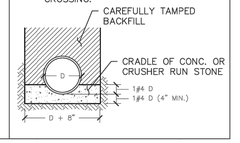
REFER TO APPROPRIATE AGENCY FOR SANITARY SEWER BEDDING REQUIREMENTS

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	WL MORE THAN 18" SL	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
II WATER LINE ABOVE SEWER LINE	WL 18" (MIN.) SL	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) WHEN BOTH WATER LINE AND SEWER LINE ARE NEW, SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) WHEN ONE LINE IS EXISTING, SLEEVE PIPE BEING INSTALLED WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. D) BACKFILL WITH COMPACTED CRUSHER RUN STONE.
III SEWER LINE ABOVE WATER LINE	SL 18" (MIN.) WL	A) WATER LINE AND SEWER LINE PIPE LENGTHS TO BE CENTERED AT CROSSING. EACH LENGTH OF PIPE TO BE 10 FT. MINIMUM. B) SLEEVE SEWER LINE WITH STEEL CASING FOR 10 FT. EACH SIDE OF CROSSING. C) PROVIDE CRADLE OF CONCRETE OR CRUSHER RUN STONE (SEE TRENCH DETAIL BELOW) FOR WATER LINE AND SEWER LINE FOR 10 FT. EACH SIDE OF CROSSING.

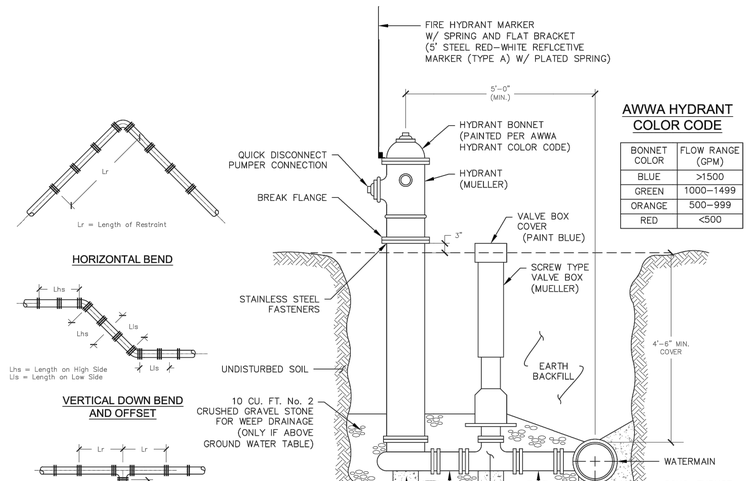
NOTES

WL (WATER LINE)
SL (SEWER LINE)
D (OUTSIDE DIAMETER OF PIPE)

IN NO CASE SHALL PIPES BE CLOSER THAN 18" APART. DISTANCES ARE MEASURED BETWEEN OUTSIDES OF PIPE.



WATERMAIN/SEWER CROSSING DETAIL



AWWA HYDRANT COLOR CODE

BONNET COLOR	FLOW RANGE (GPM)
BLUE	>1500
GREEN	1000-1499
ORANGE	500-999
RED	<500

NOTES:

1. IF GROUND WATER IS ENCOUNTERED, THE WEEP HOLES MUST BE PLUGGED AND THE HYDRANT MARKED.
2. HYDRANTS SHALL BE PAINTED RED.

HYDRANT UNIT

PIPE SIZE (INCHES)	90° BEND	45° BEND	22.5° BEND	11.25° BEND	SIZE ON SIZE TEE	DEAD END
4	13 FT.	–	–	–	–	29 FT.
6	17 FT.	8 FT.	4 FT.	3 FT.	BR.	36 FT.
8	22 FT.	10 FT.	5 FT.	3 FT.	3 FT.	48 FT.
12	33 FT.	14 FT.	7 FT.	4 FT.	23 FT.	76 FT.
14	38 FT.	16 FT.	7 FT.	4 FT.	32 FT.	97 FT.
16	44 FT.	18 FT.	9 FT.	4 FT.	46 FT.	110 FT.

NOTES:

1. RECOMMENDED RESTRAINED LENGTHS FOR STRAIGHT TEES ASSUME A MINIMUM 10' LENGTH OF PIPE ATTACHED TO EACH SIDE OF THE RUN.
2. BR. ONLY INDICATES RESTRAINT AT TEE BRANCH ONLY.
3. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS HORIZONTAL.
4. DEAD-END SERVICE CONSTITUTES CAPS, PLUGS, VALVES AND HYDRANTS.

HORIZONTAL BEND RESTRAINT

PIPE SIZE (INCHES)	90° BEND	45° BEND	22.5° BEND	11.25° BEND
6	35/10	14/6	7/3	4/2
8	45/13	22/10	11/5	5/2
12	65/19	31/14	16/7	7/3
14		40/16	19/8	10/4
16		45/18	22/9	11/4

NOTES:

1. ALL BENDS (DEGREE CHANGES) ARE CALCULATED AS VERTICAL, THE FIRST RESTRAINED LENGTH (FEET) IS FOR THE HIGH-SIDE BENDS (Lhs) AND THE SECOND RESTRAINED LENGTH (FEET) INDICATES THE LOW-SIDE BENDS (Lls). LENGTHS WERE CALCULATED USING A CONSISTENT 5 FOOT DEPTH OF COVER FOR THE WATERMAIN.

VERTICAL BEND RESTRAINT

PIPE SIZE (INCHES)	TEE (REDUC.)	STRAIGHT REDUCER
8 X 4	BR.	55/29
8 X 6	BR.	22/17
12 X 6	BR.	81/42
12 X 8	BR.	54/36
12 X 10	BR.	20/17
16X 10	BR.	48/30
16 X 12	BR.	29/32

RESTRAINED LENGTHS FOR REDUCING FITTINGS

PIPE SIZE (INCHES)	VALVE LR
6	40'
8	40'
12	76'
14	97'
16	110'

RESTRAINED LENGTHS FOR VALVES

NOTES:

1. RECOMMENDED RESTRAINED LENGTHS FOR STRAIGHT TEES ASSUME A MINIMUM 10' LENGTH OF PIPE ATTACHED TO EACH SIDE OF THE RUN.
2. BR. ONLY INDICATES RESTRAINT AT TEE BRANCH ONLY.
3. STRAIGHT REDUCER UNOBSTRUCTED RESTRAINED LENGTHS OFFER THE OPTION OF RESTRAINING RECOMMENDED DISTANCES ON THE SMALL-END SIDE (FIRST RESTRAINED LENGTH PROVDED) OR THE LARGE-END SIDE (SECOND RESTRAINED LENGTH PROVIDED).

MECHANICAL JOINT PIPE RESTRAINTS

NOT FOR CONSTRUCTION

FINAL

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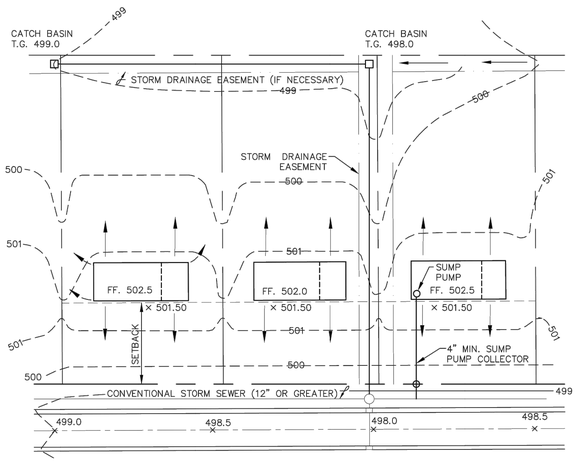


LEGEND

- ORIGINAL CONTOURS
- PROPOSED CONTOURS
- FLOW ARROWS
- × 498.50 SPOT ELEVATIONS
- STORM SEWER & MANHOLE
- CATCH BASIN

TYPICAL GRADING PLAN

PIPE BEDDING DETAILS FOR STORM LINES

TYPE OF UTILITY: STORM SEWER

PIPE MATERIAL: PVC

APPLICABLE PIPE SIZE: 4" TO 15"

TRENCH WIDTH: MAX. O.D. + 24"

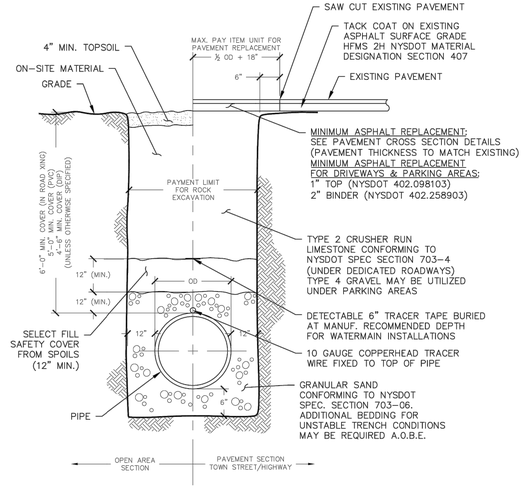
TRENCH CONDITIONS: SELECT EARTH

BEDDING SPECIFICATION: THE TRENCH BOTTOM SHALL BE TRUE, EVEN, AND FREE OF LARGE STONES, LARGE DIRT CLODS, AND ANY OTHER FROZEN MATERIAL AS APPROVED BY THE ENGINEER. A MINIMUM OF THREE (3) INCHES OF NO. 1 AND NO. 1A CRUSHED STONE MIXED EQUALLY (NYSDOT GRADATION TABLE 703-4) SHALL BE INSTALLED AND TAMPED TO PROVIDE SATISFACTORY BEDDING FOR THE PIPE WHICH IS FIRM AND GIVES CONTINUOUS SUPPORT OF THE PIPE BARREL. DEPRESSIONS SHALL BE HOLLOWED IN THE TRENCH BOTTOM FOR PIPE BELLS AT ALL JOINTS IN THIS GRANULAR LIFT.

BACKFILL SPECIFICATION: INITIAL BACKFILL FROM THE TOP OF THE PIPE BEDDING MATERIAL TO THE SPRING LINE OF THE PIPE SHALL CONSIST OF NO. 1 AND NO. 1A CRUSHED STONE (NYSDOT GRADATION TABLE 703-4) MIXED EQUALLY.

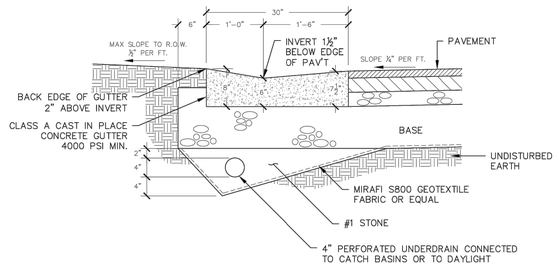
FROM THE SPRING LINE OF THE PIPE TO 12" ABOVE THE TOP OF THE PIPE APPROVED SELECT BACKFILL MATERIAL, FREE OF LARGE STONES, DIRT CLODS, OR FROZEN MATERIAL WITH ANY DIMENSION GREATER THAN 1-1/2" SHALL BE INSTALLED.

THE REMAINDER OF THE BACKFILL MATERIAL NEED NOT BE AS CAREFULLY SELECTED AS THE INITIAL BACKFILL. LARGE STONES SHALL BE AVOIDED THAT COULD DAMAGE THE INSTALLED PIPE WHEN DROPPED OR WHEN FORCE THROUGH THE SOIL CUSHION OF THE INITIAL BACKFILL.

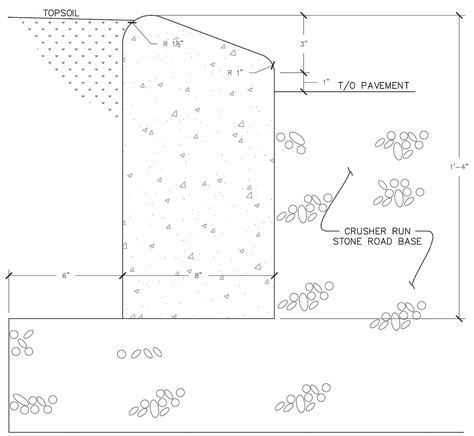


PIPE BEDDING/ TRENCH DETAIL (WATER/STORM)

(OUTSIDE OF N.Y.S. HIGHWAYS)



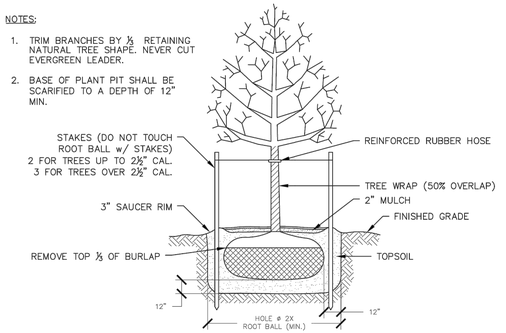
GUTTER DETAIL



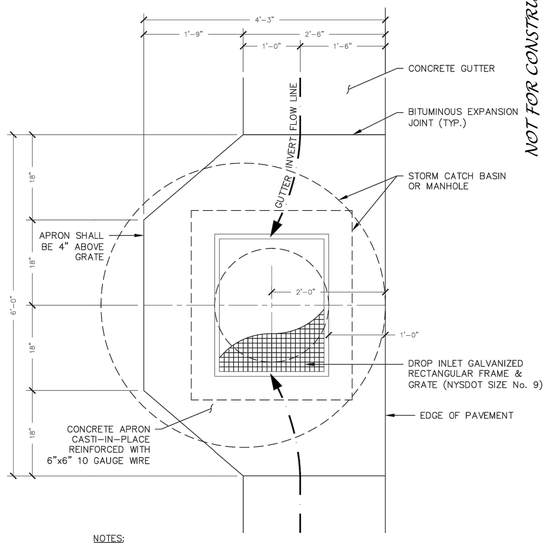
CAST IN PLACE MOUNTABLE CONCRETE CURB

NOTES:

1. TRIM BRANCHES BY ⅓ RETAINING NATURAL TREE SHAPE. NEVER CUT EVERGREEN LEADER.
2. BASE OF PLANT PIT SHALL BE SCARIFIED TO A DEPTH OF 12" MIN.



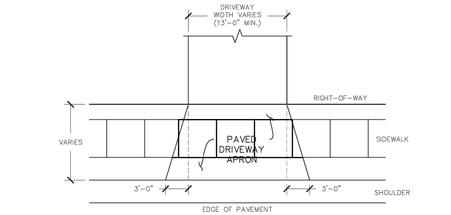
TYPICAL TREE PLANTING DETAIL

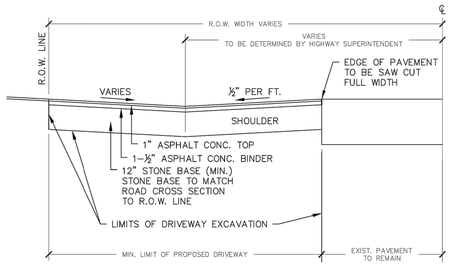


NOTES:

1. CATCH BASINS SHOULD NOT BE PLACED IN DRIVEWAY AREAS OR IN FRONT OF DRIVEWAY AREAS.
2. SPECIAL DESIGN MAY BE REQUIRED FOR STEEP GRADE SECTIONS.

GUTTER AND CATCH BASIN APRON DETAIL

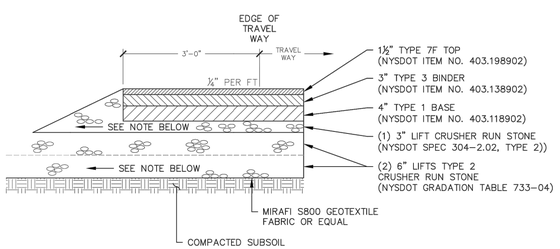




NOTES:

1. DRIVEWAYS FRONTING ON TOWN ROADS SHALL BE PAVED a MINIMUM OF 30 FEET EXTENDING FROM THE EDGE OF PAVEMENT TO R.O.W. UNLESS OTHERWISE INDICATED BY THE TOWN.
2. THE APPLICANT SHALL NOTIFY THE HIGHWAY SUPERINTENDENT AT LEAST 48 HOURS PRIOR TO PERFORMING THE WORK TO SCHEDULE A FIELD INSPECTION.
3. A MAXIMUM 3% LEVELING AREA TO BE PROVIDED FOR THE FIRST 30 FEET FROM THE EDGE OF PAVEMENT.

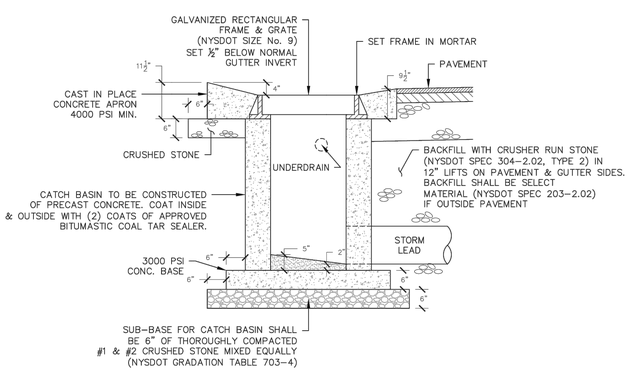
TYPICAL DRIVEWAY APRON DETAIL



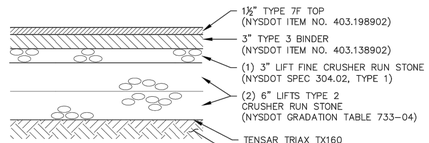
NOTES:

1. EXTEND SUBBASE TO SWALE PER APPENDICIES H-2.0, H-2.1, H-2.2
2. PROVIDE 4" UNDERDRAIN IF SUBBASE CANNOT DAYLIGHT

STABILIZED SHOULDER SECTION



CATCH BASIN DETAIL



SUBDIVISION ROAD

NOTES:

1. ALL DEPTHS DIMENSIONS ARE COMPACTED THICKNESS.
2. PAVEMENT THICKNESS MAY VARY AS REQUIRED BY TOWN ENGINEER
3. UNDERDRAIN AS REQUIRED
4. IF THE SUBGRADE IS FOUND TO HAVE TOO HIGH A MOISTURE CONTENT OR PUMPING FINES, A LIGHTWEIGHT NON-WOVEN GEOTEXTILE IS TO BE USED DIRECTLY UNDER THE GEOGRID LAYER.

PAVEMENT CROSS SECTION

NOT FOR CONSTRUCTION

FINAL

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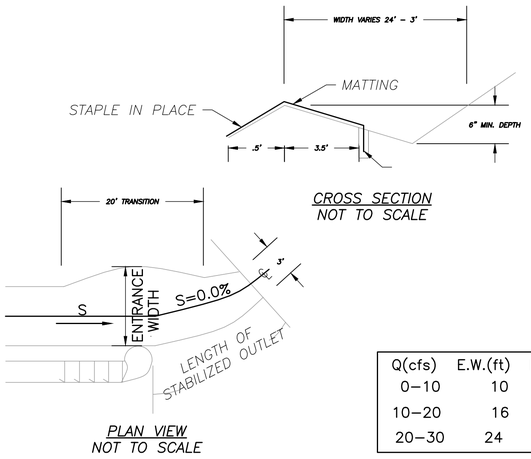
SITE PLANS PREPARED FOR:
WILLIAM METROSE, LTD
10-LOT RESIDENTIAL CONSERVATION SUBDIVISION
SHOWING LAND IN:
5100 & 5150 BRISTOL ROAD
TOWN OF CANANDAIGUA
COUNTY OF ONTARIO STATE OF NEW YORK

DRAWING TITLE:
DETAILS

DRAWN BY:	JPS
DESIGNED BY:	BAM
CHECKED BY:	BAM
SCALE:	AS NOTED
JOB NO.:	19-094
DATE:	3/31/2022
TAX MAP#:	83.00-1-7.150

C504



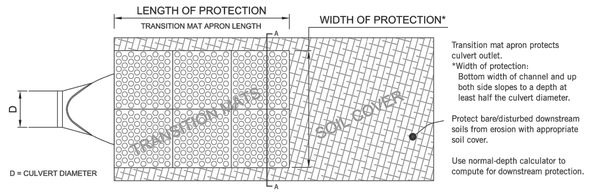
Q(cfs)	E.W.(ft)	D(ft)	LENGTH(ft)
0–10	10	0.5	10
10–20	16	0.6	20
20–30	24	0.7	30

CONSTRUCTION SPECIFICATIONS

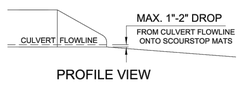
1. THE MATTING SHOULD BE A MINIMUM OF 4FT. WIDE EXTENDING 6 INCHES OVER THE LIP AND BURIED 6 INCHES DEEP IN A VERTICAL TRENCH ON THE LOWER EDGE. THE UPPER EDGE SHOULD BUTT AGAINST SMOOTHLY CUT SOD AND BE SECURELY HELD IN PLACE WITH CLOSELY SPACED HEAVY DUTY WIRE STAPLES AT LEAST 12 INCHES IN LENGTH.
2. ENSURE THAT THE LIP IS LEVEL TO UNIFORMLY SPREAD DISCHARGE.
3. THE LIP SHALL BE CONSTRUCTED ON UNDISTURBED SOIL NOT FILL.
4. A 20 FOOT TRANSITION SECTION WILL BE CONSTRUCTED FROM THE DIVERSION CHANNEL TO THE SPREADER TO SMOOTHLY BLEND THE DIFFERENT DIMENSION AND GRADES.
5. THE RUNOFF DISCHARGE WILL BE OUTLETED ONTO A STABILIZED VEGETATED SLOPE NOT EXCEEDING 10%.
6. SEED AND MULCH THE DISTURBED AREA IMMEDIATELY AFTER CONSTRUCTION.

1 DETAIL: TYPICAL LEVEL SPREADER
NOT TO SCALE

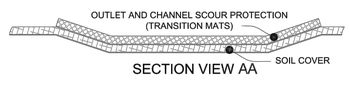
1. ScourStop mats must be installed over a soil cover: sod, seeded turf reinforcement mat (TRM), geotextile, or a combination thereof.
2. For steep slopes (>10%) or higher velocities (>10 ft/sec), sod is the recommended soil cover.
3. Follow manufacturer's **ScourStop Installation Guidelines** to ensure proper installation.
4. Install ScourStop mats at maximum 1-2" below flowline of culvert or culvert apron. (No waterfall impacts onto ScourStop mats.)
5. Performance of protected area assumes stable downstream conditions.



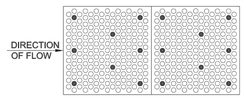
CULVERT OUTLET PROTECTION – PLAN VIEW



PROFILE VIEW

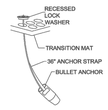


SECTION VIEW AA



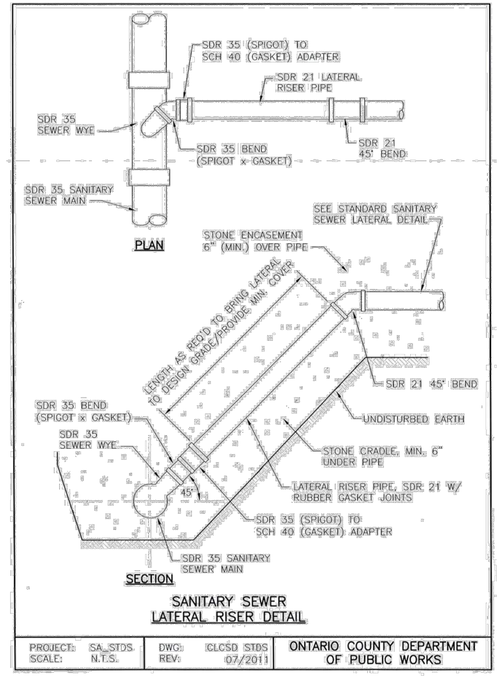
ANCHOR PATTERN

Abut transition mats to end of culvert or culvert apron.
Adjacent mats abut together laterally and longitudinally.
Minimum 8 anchors per mat.
Extra anchors as needed for loose or wet soils.
Extra anchors as needed for uneven soil surface.



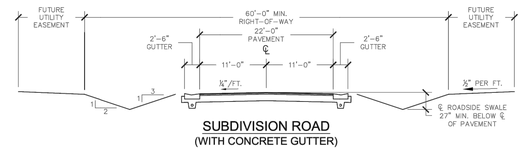
ANCHOR ILLUSTRATION

Install anchors per **ScourStop Installation Guidelines.**
Minimum depth 24" in compacted, cohesive soil.
Minimum depth 30" in loose, sandy, or wet soil.
Extra anchors as needed to secure mat tightly over soil cover.

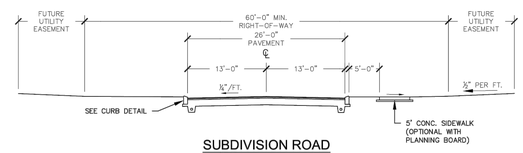


SANITARY SEWER LATERAL RISER DETAIL

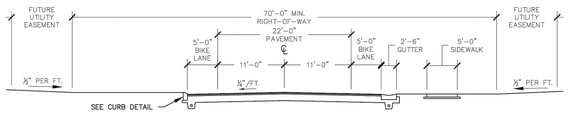
PROJECT: SA_STDS	DWG: CLCSD STDS	ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS
SCALE: N.T.S.	REV: 07/2011	



SUBDIVISION ROAD
(WITH CONCRETE GUTTER)

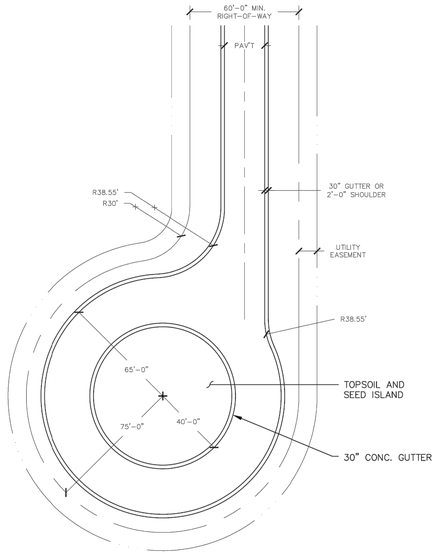


SUBDIVISION ROAD
(WITH OPTIONAL SHOULDER AND MOUNTABLE CURB)



SUBDIVISION ROAD
(COMPLETE STREET)

TYPICAL ROAD CROSS SECTIONS
(SUBDIVISION)



OFFSET CUL-DE-SAC PLAN
(WITH ISLAND)

NOT FOR CONSTRUCTION

FINAL

MarksEngineering
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CANANDAIGUA, NY 14424
Phone 585-905-0360
Fax: 585-485-x205
www.marksengineering.com bmarks@marksengineering.com

STATE OF NEW YORK
BRENNAN A MARKS
093182
LICENSED PROFESSIONAL ENGINEER
STAMP

STAMP

REVISIONS		
NO.	DATE	DESCRIPTION OF REVISION
		BY

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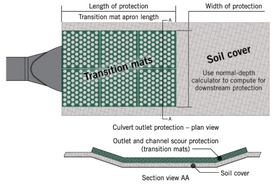
C505

ScourStop may be used in many applications: culvert outlets, curb outfalls, spillways, overflow structures, stream banks, slopes, etc. The details in this example are for typical culvert outlet protection. Project engineer shall determine the limits of soil cover and ScourStop.

Downstream: Continue soil cover beyond outlet apron area to properly protect downstream channel and prevent head-cutting.

Width: Install soil cover wider than proposed ScourStop protection (recommend soil cover full width of channel – across bottom and up both slopes).



Electric Hammer:
- **Rotary hammer or demolition hammer** – the greater the impact energy (ft/lbs) and the heavier the hammer, the greater the driving force to install bullet anchors into soil (e.g., Makita HM1214C, Hilti or other).
- Use **hammer-only mode**, no rotation.
- Use 3/4" Ground Rod Driver, which fits onto ScourStop HD Driver.
- Recommend two ScourStop drivers per electric hammer to achieve maximum efficiency.

Maintenance:
- No maintenance is required for a ScourStop solution.
- Mowing over a vegetated ScourStop solution is allowed – minimum height of 4" recommended.
- Mowing is not recommended where soft, saturated soils exist.
- ScourStop surface may be slippery when wet – **use caution**.
- New construction: soil may consolidate, so lock washers may need to be re-tightened after settling.

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ScourStop®
Installation Recommendations

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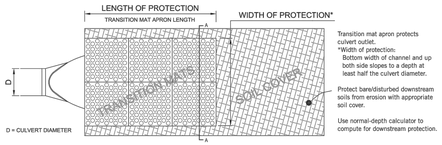

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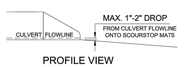
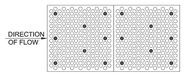


PROFILE VIEW

SECTION VIEW AA



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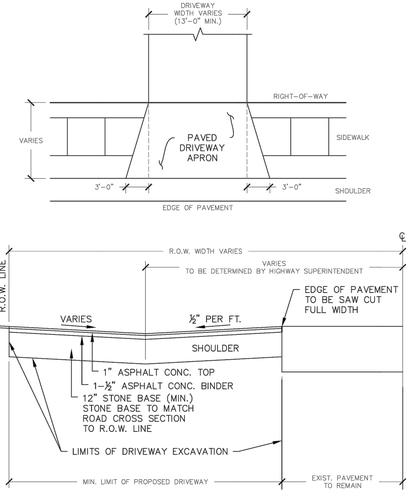
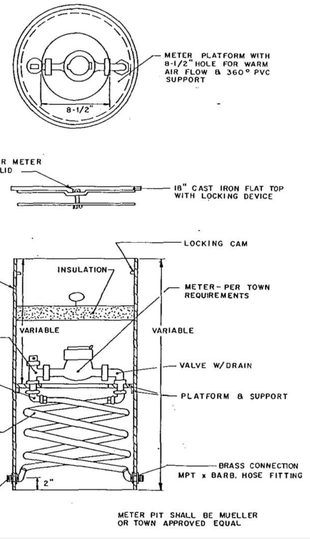
the green solution to ramp scourstop®



NOTES:

1. DRIVEWAYS FRONTING ON TOWN ROADS SHALL BE PAVED a MINIMUM OF 30 FEET EXTENDING FROM THE EDGE OF PAVEMENT TO R.O.W. UNLESS OTHERWISE INDICATED BY THE TOWN.
2. THE APPLICANT SHALL NOTIFY THE HIGHWAY SUPERINTENDENT AT LEAST 48 HOURS PRIOR TO PERFORMING THE WORK TO SCHEDULE A FIELD INSPECTION.
3. A MAXIMUM 3% LEVELING AREA TO BE PROVIDED FOR THE FIRST 30 FEET FROM THE EDGE OF PAVEMENT.

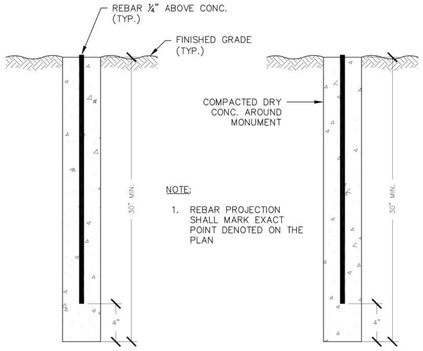
TYPICAL DRIVEWAY APRON DETAIL



METER PIT DETAIL

N.T.S.

PLAN



SECTION

MONUMENT

Streetworks — LXF / LXT Lexington

Energy and Performance Data

Power and Lumens

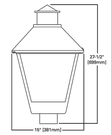
Light Engine		PA1-20	PA1-30	PA1-40	PA1-50	PA1-60	PA1-70	PA1-80	PA1-90	PA1-100
Nominal Power (Watts)		21	31	40	54	64	74	83	94	96
Wattage Label		20	30	40	50	60	70	80	90	100
Current (A) @120V		0.18	0.26	0.34	0.45	0.53	0.62	0.70	0.78	0.80
Current (A) @277V		--	0.12	0.15	0.21	0.24	0.28	0.31	0.35	0.35
Current (A) @347V		--	0.10	0.13	0.16	0.19	0.22	0.24	0.28	0.28
Current (A) @480V		--	0.07	0.09	0.13	0.14	0.17	0.18	0.21	0.21
Optics										
T2U	**4000K**	2,799	3,926	5,084	6,557	7,576	8,497	9,287	10,013	10,139
	Lumens per Watt	133	127	127	121	118	115	112	107	106
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K	2,549	3,576	4,630	5,972	6,899	7,738	8,458	9,119	9,234
	Lumens per Watt	121	115	116	111	108	105	102	97	96
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2

Quick Facts

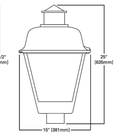
- Replaces up to 400W equivalent HID
- Asymmetric & Symmetric distributions
- 0-10V dimming driver standard
- UL 1449/MOV surge protection available
- 3G vibration rated

Dimensional Details

LXF



LXT



COOPER Lighting Solutions

NOT FOR CONSTRUCTION

FINAL

MarksEngineering
4 2 BEIMAN ST
CANANDAIGUA, NY 14424
Phone 585-905-0360
Fax: 585-485-x205
www.marksengineering.com bmarks@marksengineering.com

STATE OF NEW YORK — BRENNAN A. MARKS — 093182 — PROFESSIONAL ENGINEER — STAMP

STAMP

REVISIONS

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C506