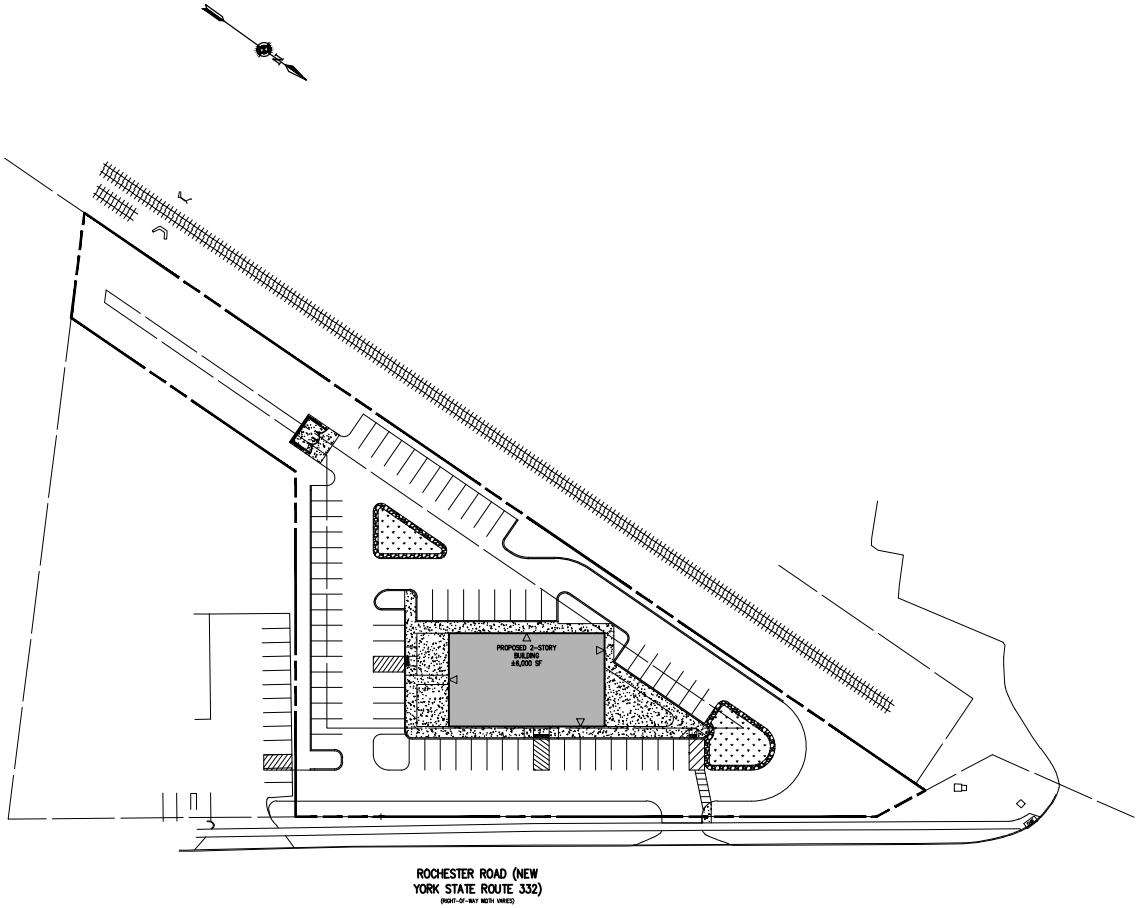
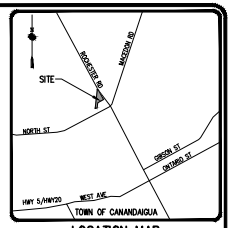




LOCATION MAP
NOT TO SCALE

2536 ROCHESTER RD

FINAL SITE PLANS

2536 ROCHESTER RD

TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE

PREPARED FOR:

APOGEE DEVELOPMENT LTD.

PO BOX 810

CANANDAIGUA, NEW YORK 14424

FINAL - SITE PLANS

DWG. No.	TITLE
2759-03	COVER SHEET
2759-04	SITE PLAN
2759-05	EXISTING CONDITIONS AND DEMO PLAN
2759-06	UTILITY PLAN
2759-07	GRADING PLAN
2759-08	CONSTRUCTION EROSION CONTROL PLAN
2759-09	LANDSCAPE PLAN
2759-10	LANDSCAPE PLAN
2759-11	LIGHTING PLAN
2759-12	PROFILE SHEET
2759-13	DETAIL SHEET
2759-14	DETAIL SHEET
2759-15	DETAIL SHEET
2759-16	DETAIL SHEET

SCALE: 1"=40'

DRAWING NUMBER: 2759-03
DATED: JUNE 2021
LAST REVISED: 6/17/2021

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEINC.COM
PHONE 585-377-7360
FAX 585-377-7309

Apogee Cover Sheet.dwg 6/17/21 \\Mike\drawings\2759\

P:\2759\Drawings\Prelim\2759 Layout Base.dwg

REFERENCES:

1. A PLAN ENTITLED "FINAL LOT LINE ADJUSTMENT MAP CANANDAIGUA CROSSING LLC AND CJA I, LLC" AS FILED IN THE ONTARIO COUNTY CLERK'S OFFICE AT MAP No. 30999.
2. A PLAN ENTITLED PLAT MAP AND EXISTING SITE PLAN" AS FILED IN THE ONTARIO COUNTY CLERK'S OFFICE AT MAP No. 24602.
3. A PLAN ENTITLED "KENTUCKY FRIED CHICKEN #2536 ROCHESTER ROAD" PREPARED BY MARATHON ENGINEERING, PROJECT NO. 0156-09, DATED OCTOBER 9, 2009
4. AN ABSTRACT OF TITLE WAS NOT PROVIDED FOR THE COMPLETION OF THIS SURVEY.

SURVEY NOTES:

1. PARCEL MAY BE SUBJECT TO RIGHTS OF OTHERS PER THE LOCATION OF UTILITY POLES ALONG ROCHESTER ROAD (N.Y.S. ROUTE 332) AND THE WEST PROPERTY LINE.
2. THE HORIZONTAL DATUM SHOWN HEREON IS REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM OF 1983, CENTRAL ZONE, NAD 83. RECORD BEARINGS ARE SHOWN IN PARENTHESIS.
3. THE VERTICAL DATUM HEREON REFERENCES THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) US SURVEY FEET.

SITE NOTES:

1. EXISTING ZONING IS CC COMMUNITY COMMERCIAL & MIXED USE OVERLAY DISTRICT.
2. TOTAL PROJECT AREA IS ± 1.67 ACRES.
3. PROPOSED USE: ±8,000 SF (±6,000 SF FOOTPRINT) 2-STORY COMMERCIAL/RETAIL BUILDING.

   BUILDING USE SUMMARY:
   ±4,500 SF RETAIL
   ±1,500 SF OFFICE
   ±2,000 SF TASTING ROOM

4. APPLICABLE DEVELOPMENT STANDARDS PROPOSED ARE AS FOLLOWS:

LOT STANDARDS:	REQUIRED	PROPOSED
LOT WIDTH:	175'	405'
FRONT SETBACK:	150'	57'*
SIDE SETBACK:	20'	±150'
REAR SETBACK:	40'	33'*
PARKING SETBACK:	10'	5'***
GREEN SPACE:	35%	35.7%
MIN OPEN SPACE**:	40%	32.2%
MAX BLDG COVERAGE:	35%	8.2%
MAX BUILDING HEIGHT:	35'	<35' (2-STORY)

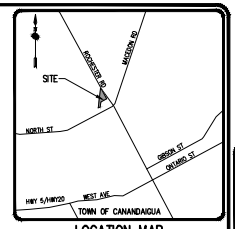
PARKING:

USE	REQUIRED
±4,500 SF RETAIL @ 1SP/150SF	30
±1,500 SF OFFICE @ 1SP/200SF	8
±2,000 SF TASTING ROOM @ 1SP/25SF PATRON SPACE @ 1,000 SF	40
±8,000 SF	78

PARKING PROVIDED: 70 SPACES INC. 4 ACCESSIBLE SPACES***

*VARIANCES WILL BE REQUIRED FROM THE CANANDAIGUA ZONING BOARD OF APPEALS FOR FRONT AND REAR SETBACK.
**VARIANCE WILL BE REQUIRED FORM THE CANANDAIGUA ZONING BOARD OF APPEALS FOR THE 40% OPEN SPACE REQUIREMENT WITHIN THE MIXED USE OVERLAY DISTRICT.
***A REQUEST WILL BE MADE OF THE PLANNING BOARD TO REDUCE THE PARKING SETBACK TO 5' AND THE NUMBER OF PARKING SPACES REQUIRED PER 220-76.D(15)(a)[3] AND 220-73.I

5. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF CANANDAIGUA AND THE APPROPRIATE ONTARIO COUNTY AND NEW YORK STATE AGENCIES, UNLESS OTHERWISE NOTED.
6. HIGHWAY DRAINAGE ALONG NYS ROUTE 332 TO BE MAINTAINED.
7. UTILITY SERVICE PROVIDERS:
   WATER: TOWN OF FARMINGTON WATER & SEWER DEPARTMENT
   SANITARY: ONTARIO COUNTY DPW
   STORM: PRIVATE
   GAS: NEW YORK STATE ELECTRIC & GAS
   ELECTRIC: ROCHESTER GAS & ELECTRIC
8. THIS PROPERTY MAY BORDER A FARM. RESIDENTS SHOULD BE AWARE THAT FARMERS HAVE THE RIGHT TO UTILIZE STANDARD FARM PRACTICES WHICH MAY GENERATE DUST, ODOR, SMOKE, NOISE AND VIBRATIONS.
9. REVIEW OF FEMA FIRM COMMUNITY-PANEL NUMBER 360598 0015 C, DO NOT INDICATE THIS PROPERTY TO BE WITHIN A RECOGNIZED 100-YEAR FLOODPLAIN.



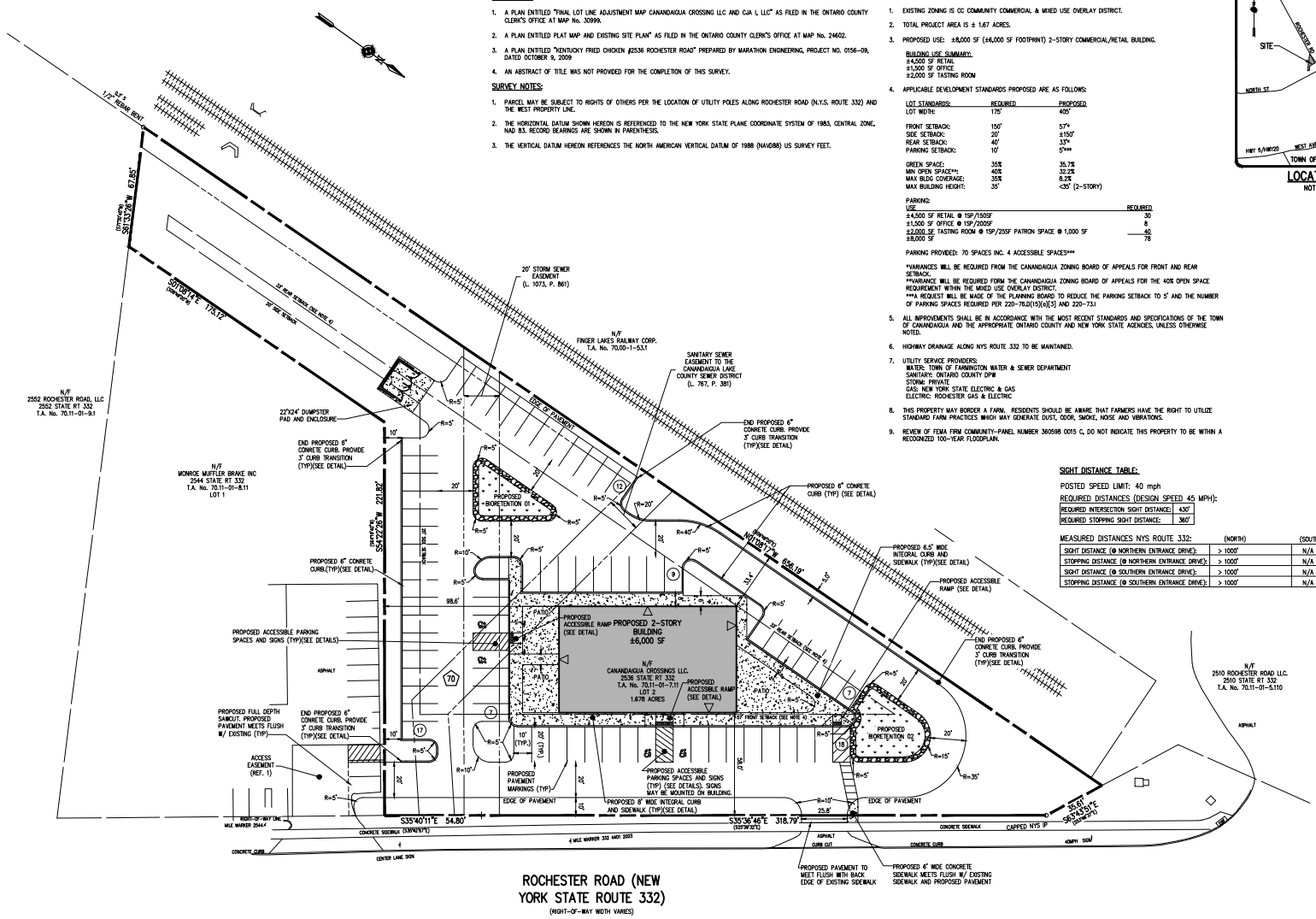
LOCATION MAP
NOT TO SCALE

SIGHT DISTANCE TABLE:

POSTED SPEED LIMIT: 40 mph
REQUIRED DISTANCES (DESIGN SPEED 45 MPH):

REQUIRED INTERSECTION SIGHT DISTANCE:	430'
REQUIRED STOPPING SIGHT DISTANCE:	360'

MEASURED DISTANCES NYS ROUTE 332:	(NORTH)	(SOUTH)
SIGHT DISTANCE (@ NORTHERN ENTRANCE DRIVE):	> 1000'	N/A (ONE-WAY)
STOPPING DISTANCE (@ NORTHERN ENTRANCE DRIVE):	> 1000'	N/A (ONE-WAY)
SIGHT DISTANCE (@ SOUTHERN ENTRANCE DRIVE):	> 1000'	N/A (ONE-WAY)
STOPPING DISTANCE (@ SOUTHERN ENTRANCE DRIVE):	> 1000'	N/A (ONE-WAY)



LEGEND

- BOUNDARY LINE
- CENTERLINE
- SETBACK LINE
- PROPOSED LOT LINE
- PROPERTY MARKER FOUND
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- BIORETENTION AREA

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

NOT APPROVED

This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

APPROVALS

BY: DATE:
TOWN ENGINEER

BY: DATE:
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

BY: DATE:
TOWN OF CANANDAIGUA HIGHWAY/WATER SUPERINTENDENT

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PHELPS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

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2	REVISED PER PRC COMMENTS	6/17/21	AND
1	REVISIONS	DATE	BY

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10 LIFT BRIDGE LANE EAST
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WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

STATE OF NEW YORK · GEORGE E. · 095274 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, NEW YORK STATE
CLIENT: APPOSE DEVELOPMENT LLC.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL SITE PLAN

PROJECT MANAGER: PC VARS
PROJECT ENGINEER: JC CRETEKOS
DRAWN BY: AN D'ANGELO
SCALE: 1"=30'
DATE ISSUED: JUNE 9, 2021
PROJECT NO. 2759
DRAWING NO. 04

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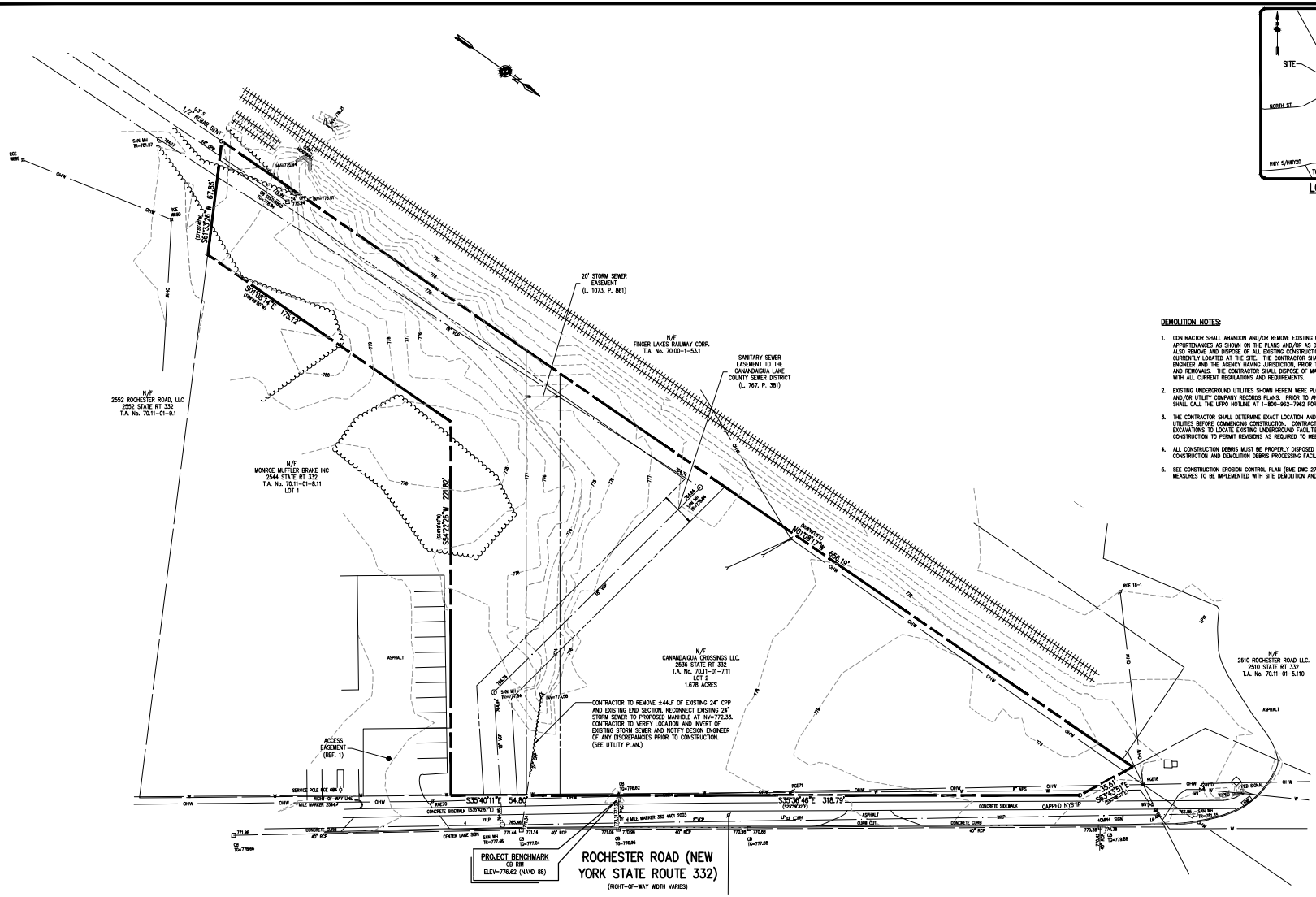
N/F
2552 ROCHESTER ROAD, LLC
2552 STATE RT 332
T.A. No. 70.11-01-8.1
N/F
MONROE MUFFLER BRAKE INC
2544 STATE RT 332
T.A. No. 70.11-01-8.11
LOT 1
N/F
FINGER LAKES RAILWAY CORP.
T.A. No. 70.00-1-53.1
20' STORM SEWER EASEMENT (L. 1073, P. 861)
SANITARY SEWER EASEMENT TO THE CANANDAIGUA LAKE COUNTY SEWER DISTRICT (L. 767, P. 381)
N/F
CANANDAIGUA CROSSINGS LLC.
2538 STATE RT 332
T.A. No. 70.11-01-7.11
LOT 2
1.678 ACRES
N/F
2510 ROCHESTER ROAD LLC.
2510 STATE RT 332
T.A. No. 70.11-01-5.110
CONTRACTOR TO REMOVE ±44LF OF EXISTING 24" CPP AND EXISTING END SECTION. RECONNECT EXISTING 24" STORM SEWER TO PROPOSED MANHOLE AT INV=772.33. CONTRACTOR TO VERIFY LOCATION AND INVERT OF EXISTING STORM SEWER AND NOTIFY DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. (SEE UTILITY PLAN.)
ACCESS EASEMENT (REF. 1)
PROJECT BENCHMARK
CB RIM
ELEV=776.62 (NAVD 88)
ROCHESTER ROAD (NEW YORK STATE ROUTE 332)
(RIGHT-OF-WAY WIDTH VARIES)
S35°40'11"E 54.80'
S35°36'46"E 318.79'
N41°08'14"W 656.19'
S37°33'30"W 67.85'
S37°08'14"E 176.12'
S54°27'30"W 221.82'
S54°27'30"E 50.01'
S54°27'30"E 50.01'
ASPHALT
CONCRETE SIDEWALK
CAPPED NYS IP
CONCRETE CURB
CENTER LANE SIGN
RIGHT-OF-WAY LINE
MILE MARKER 2544.4
4 MILE MARKER 332 MKR 2003
SERVICE POLE ASE 684
RIDGE 18-1
RIDGE 71
RIDGE 78
RIDGE 79
RIDGE 80
RIDGE 81
RIDGE 82
RIDGE 83
RIDGE 84
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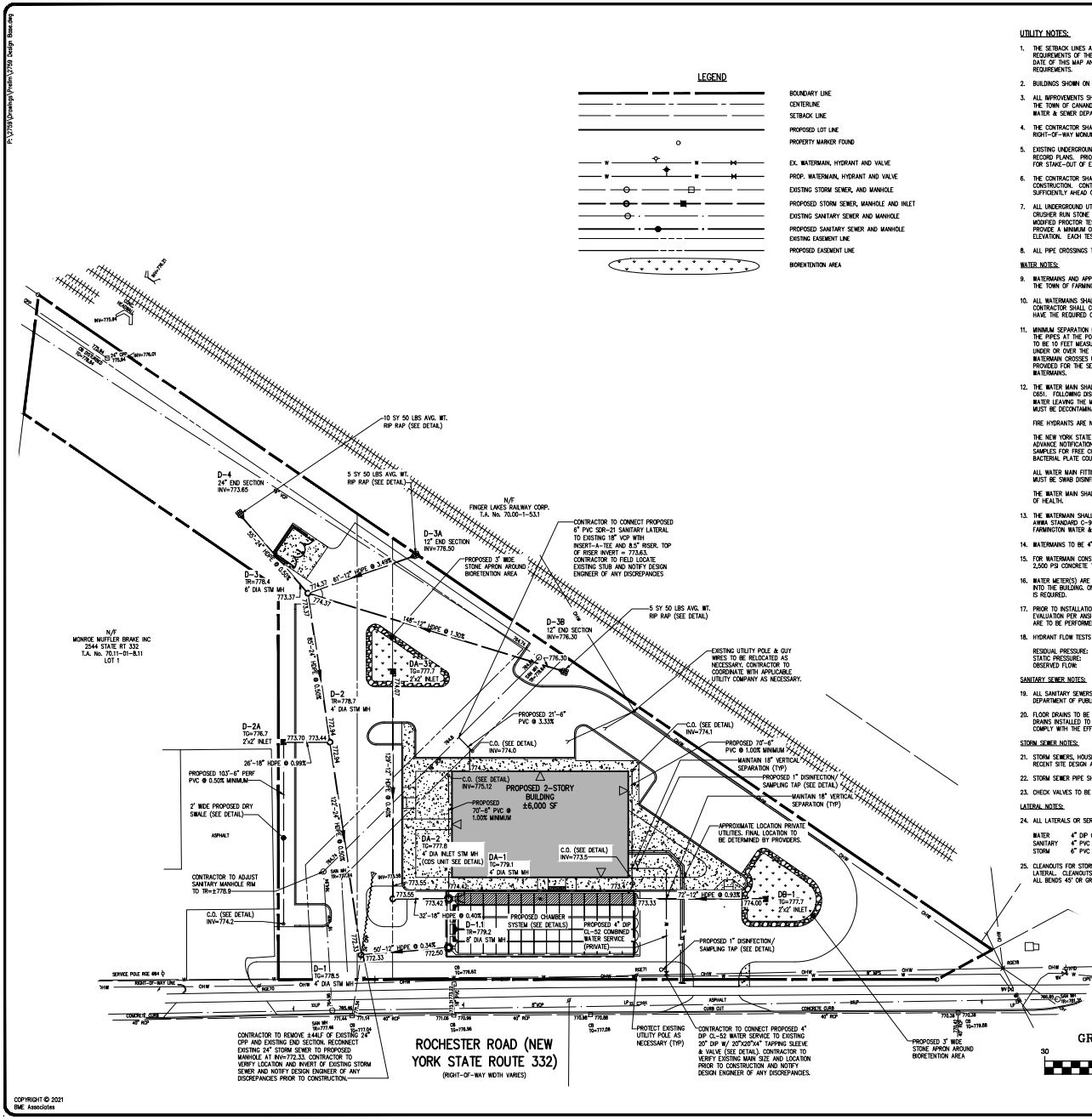
RIDGE



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UTILITY NOTES:

1. THE SETBACK LINES AND NOTES RELATING TO SETBACK SHOWN HEREON ARE INTENDED TO SHOW APPLICABLE ZONING REQUIREMENTS OF THE TOWN OF CANANDAIGUA AND STANDARDS REQUESTED UNDER CLUSTERING PROVISIONS AS OF THE DATE OF THIS MAP AND ARE NOT INTENDED TO IMPOSE ANY ADDITIONAL RESTRICTIONS OTHER THAN SAID ZONING REQUIREMENTS.
2. BUILDINGS SHOWN ON THIS PLAN ARE GRAPHICAL REPRESENTATIONS ONLY.
3. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT SITE DESIGN AND DEVELOPMENT CRITERIA OF THE TOWN OF CANANDAIGUA, AND THE APPROPRIATE AGENCIES (IE, ONTARIO COUNTY DPW, TOWN OF FARMINGTON WATER & SEWER DEPARTMENT, AND THE NEW YORK STATE HEALTH DEPARTMENT) UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION.
5. 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 UFPO HOTLINE AT 1(800)962-7962 FOR STAKE-OUT OF EXISTING UTILITIES.
6. 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 EXISTING CONDITIONS.
7. ALL UNDERGROUND UTILITY LINES AND SERVICES IN PROPOSED PAVEMENT AREAS SHALL BE BACKFILLED WITH #1 AND #2 CRUSHER RUN STONE PLACED IN 8" LIFTS AND COMPACTED TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM-D1557). THROUGH AN INDEPENDENT TESTING LABORATORY, THE CONTRACTOR WILL PROVIDE A MINIMUM OF TWO PASSING TESTS PER TRENCH CROSSING CERTIFYING 95% COMPACTION AT THE SUBBASE ELEVATION. EACH TEST IS NOT TO EXCEED 15 LF.
8. ALL PIPE CROSSINGS TO BE STONED FROM BOTTOM TRENCH OF LOWER PIPE TO SPRING LINE OF UPPER PIPE.

WATER NOTES:

9. WATERMAINS AND APPURTENANCES TO BE CONSTRUCTED TO THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE TOWN OF FARMINGTON WATER & SEWER DEPARTMENT.
10. ALL WATERMAINS SHALL HAVE A MINIMUM OF 6' OF COVER FROM THE TOP OF THE MAIN TO FINISHED GRADE. THE CONTRACTOR SHALL CHECK ALL CUT STAKES BEFORE TRENCHING TO INSURE THAT ALL INSTALLED WATERMAINS WILL HAVE THE REQUIRED COVER.
11. MINIMUM SEPARATION BETWEEN WATERMAIN AND SEWER MAINS TO BE 18" VERTICALLY MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAINS AND SEWER MAINS TO BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATERMAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATERMAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATERMAINS.
12. THE WATER MAIN SHALL BE DISINFECTED EQUAL TO AWWA STANDARD FOR DISINFECTING WATER MAINS DESIGNATION C651. FOLLOWING DISINFECTION, THE WATER MAIN SHALL BE FLUSHED UNTIL THE CHLORINE CONCENTRATION IN THE WATER LEAVING THE MAIN IS NO HIGHER THAN THAT GENERALLY PREVAILING IN THE SYSTEM. THE SAMPLING POINT(S) MUST BE DECONTAMINATED BY FLAMING.

    FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS.

    THE NEW YORK STATE DEPARTMENT OF HEALTH MUST RECEIVE AT LEAST 48-HOUR ADVANCE NOTIFICATION REQUESTING SAMPLING SERVICES. THE DEPARTMENT WILL COLLECT SAMPLES FOR FREE CHLORINE RESIDUAL, TOTAL AND FECAL COLIFORM AND 24-HOUR BACTERIAL PLATE COUNT.

    ALL WATER MAIN FITTINGS NOT RECEIVING 24-HOUR CHLORINE DISINFECTION CONTACT TIME MUST BE SWAB DISINFECTED 30 MINUTES PRIOR TO INSTALLATION.

    THE WATER MAIN SHALL NOT BE PLACED INTO SERVICE UNTIL SD AUTHORIZED BY THE NEW YORK STATE DEPARTMENT OF HEALTH.
13. THE WATERMAIN SHALL BE PRESSURE/LEAKAGE TESTED IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE AWWA STANDARD C-900 OR IN ACCORDANCE WITH MORE STRINGENT REQUIREMENTS IMPOSED BY THE TOWN OF FARMINGTON WATER & SEWER DEPARTMENT.
14. WATERMAINS TO BE 4" INCH DUCTILE IRON CEMENT LINED CLASS 52.
15. FOR WATERMAIN CONSTRUCTION, ALL MECHANICAL JOINT FITTINGS, TEES, BENDS, PLUGS, ETC. SHALL BE BACKED WITH 2,500 PSI CONCRETE THRUST BLOCKS.
16. WATER METER(S) ARE TO BE LOCATED ON THE INTERIOR OF EXTERIOR WALL(S) IMMEDIATELY UPON SERVICE ENTRANCE INTO THE BUILDING. ON METERED SERVICES REQUIRING A 1x INCH OR LARGER METER, A BY-PASS AROUND THE METER IS REQUIRED.
17. PRIOR TO INSTALLATION OF THE WATERMAIN, THE CONTRACTOR SHALL PROVIDE RESULTS OF A 10 POINT SOIL TEST EVALUATION PER ANSI-AWWA C105-A21.5-82 TO DETERMINE THE NEED FOR POLYETHYLENE ENCASEMENT. SOIL TESTS ARE TO BE PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.
18. HYDRANT FLOW TESTS PERFORMED BY THE TOWN OF FARMINGTON WATER AND SEWER DEPARTMENT:

    RESIDUAL PRESSURE: 68 PSI
    STATIC PRESSURE: 85 PSI
    OBSERVED FLOW: 1190 GPM

SANITARY SEWER NOTES:

19. ALL SANITARY SEWERS ARE IN COMPLIANCE WITH THE SPECIFICATIONS AND SEWER POLICY OF THE ONTARIO COUNTY DEPARTMENT OF PUBLIC WORKS.
20. FLOOR DRAINS TO BE CONNECTED TO THE SANITARY SEWER. FLOOR DRAINS DO NOT INCLUDE FOUNDATION OF FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUNDWATER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL SEWER USE LAW.

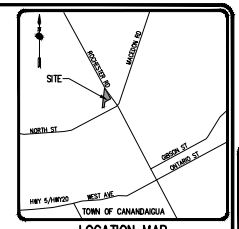
STORM SEWER NOTES:

21. STORM SEWERS, HOUSE LATERALS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MOST RECENT SITE DESIGN AND DEVELOPMENT CRITERIA OF THE TOWN OF CANANDAIGUA.
22. STORM SEWER PIPE SHALL BE HDPE OR AS NOTED ON THE PLAN.
23. CHECK VALVES TO BE PROVIDED ON SUMP PUMPS.

LATERAL NOTES:

24. ALL LATERALS OR SERVICES SHALL BE AS NOTED BELOW UNLESS OTHERWISE NOTED ON THE PLANS.

    WATER 4" DIP CLASS 52
    SANITARY 4" PVC SDR-21 INSTALLED AT 2% MIN.
    STORM 6" PVC SDR-21 INSTALLED AT 1% MIN.
25. CLEANOUTS FOR STORM LATERALS SHALL BE INSTALLED AT ALL HORIZONTAL BENDS AND AT 100' INTERVALS ALONG THE LATERAL. CLEANOUTS FOR SANITARY LATERALS SHALL BE INSTALLED AT THE RIGHT-OF-WAY OR EASEMENT LINE, AT ALL BENDS 45° OR GREATER, AND AT 85-100 FOOT INTERVALS THEREAFTER.



LOCATION MAP
NOT TO SCALE

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

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2	REVISED PER PRC COMMENTS	6/17/21	AND
1	REVISIONS	DATE	BY

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10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
PHONE 585-377-7360
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WWW.BMEPC.COM

STATE OF NEW YORK · GEORGE E. · 095274 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: ARDGEE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL UTILITY PLAN

PREPD'S & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

PROJECT MANAGER: PD VARS
PROJECT ENGINEER: JD CRESKOS
DRAWN BY: AN D'ANGELO
SCALE: 1"=30'
DATE ISSUED: JUNE 9, 2021
PROJECT NO. 2759
DRAWING NO. 06

NOT APPROVED
This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

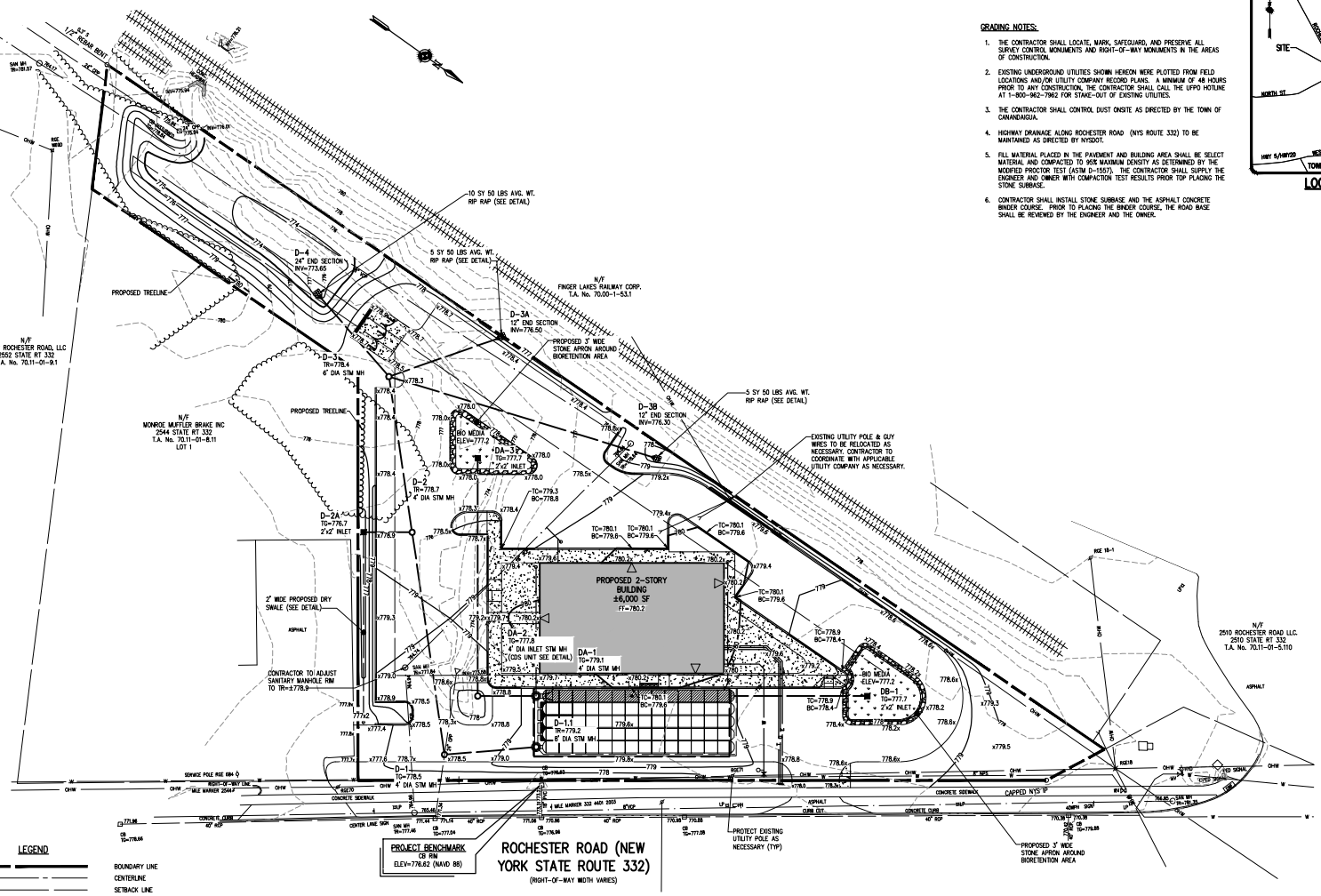
APPROVALS

BY: _____ DATE: _____
TOWN ENGINEER

BY: _____ DATE: _____
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

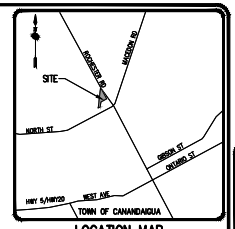
BY: _____ DATE: _____
TOWN OF CANANDAIGUA HIGHWAY/WATER SUPERINTENDENT

P:\2759\Drawings\Prelim\2759 Gradingp Base.dwg



GRADING NOTES:

1. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD, AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION.
2. EXISTING UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORD PLANS. A MINIMUM OF 48 HOURS PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE UFPO HOTLINE AT 1-800-962-7962 FOR STAKE-OUT OF EXISTING UTILITIES.
3. THE CONTRACTOR SHALL CONTROL DUST ONSITE AS DIRECTED BY THE TOWN OF CANANDAIGUA.
4. HIGHWAY DRAINAGE ALONG ROCHESTER ROAD (NYS ROUTE 332) TO BE MAINTAINED AS DIRECTED BY NYSDOT.
5. FILL MATERIAL PLACED IN THE PAVEMENT AND BUILDING AREA SHALL BE SELECT MATERIAL AND COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557). THE CONTRACTOR SHALL SUPPLY THE ENGINEER AND OWNER WITH COMPACTION TEST RESULTS PRIOR TOP PLACING THE STONE SUBBASE.
6. CONTRACTOR SHALL INSTALL STONE SUBBASE AND THE ASPHALT CONCRETE BINDER COURSE. PRIOR TO PLACING THE BINDER COURSE, THE ROAD BASE SHALL BE REVIEWED BY THE ENGINEER AND THE OWNER.



LOCATION MAP
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PHONE 585-377-7360
FAX 585-377-7369

STATE OF NEW YORK
GEORGE E. PIERCE
095274
LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, NEW YORK STATE
CLIENT: APOGEE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL GRADING PLAN

PHELPS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

PROJECT MANAGER	PO VARS
PROJECT ENGINEER	JC CRETEKOS
DRAWN BY	AN D'ANGELO
SCALE	1"=30'
DATE ISSUED	JUNE 9, 2021
PROJECT NO.	2759
DRAWING NO.	07

LEGEND

- BOUNDARY LINE
- CENTERLINE
- SETBACK LINE
- PROPOSED LOT LINE
- PROPERTY MARKER FOUND
- EX. WATERMAIN, HYDRANT AND VALVE
- PROP. WATERMAIN, HYDRANT AND VALVE
- EXISTING STORM SEWER, AND MANHOLE
- PROPOSED STORM SEWER, MANHOLE AND INLET
- EXISTING SANITARY SEWER AND MANHOLE
- PROPOSED SANITARY SEWER AND MANHOLE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- BIORENTENTION AREA
- EXISTING TREELINE
- EXISTING CONTOUR
- PROPOSED TREELINE
- PROPOSED CONTOUR
- 336x5 PROPOSED SPOT ELEVATION

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

NOT APPROVED
This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

APPROVALS

BY: _____ DATE: _____
TOWN ENGINEER

BY: _____ DATE: _____
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

BY: _____ DATE: _____
TOWN OF CANANDAIGUA HIGHWAY/WATER SUPERINTENDENT

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- BOUNDARY LINE
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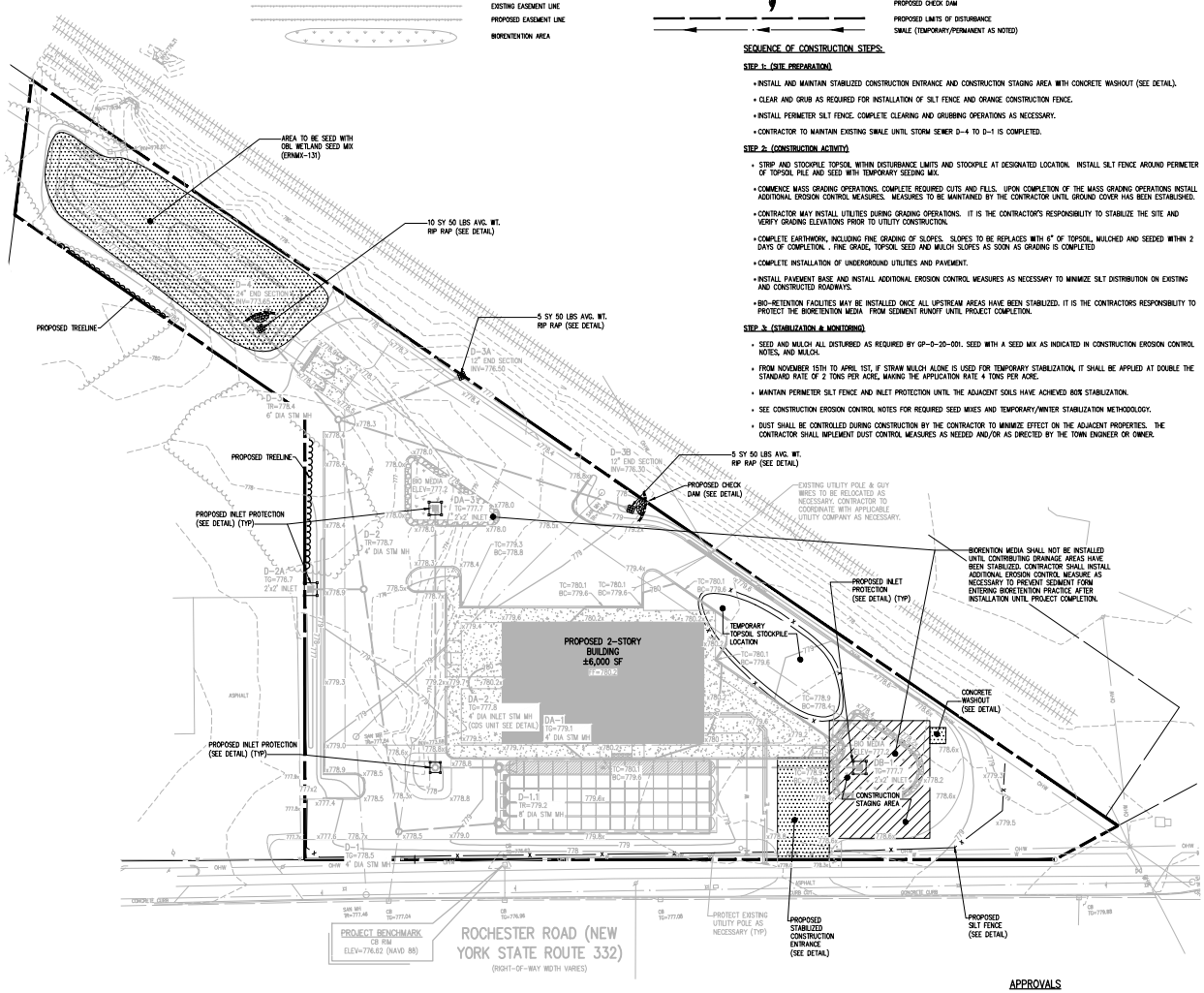
- EXISTING TREELINE
- EXISTING CONTOUR
- PROPOSED TREELINE
- PROPOSED CONTOUR
- 336x5 / FF = 338.0 — PROPOSED SPOT ELEVATION
- PROPOSED FINISHED FLOOR
- PROPOSED INLET PROTECTION
- PROPOSED SILT FENCE
- PROPOSED DRAINAGE FLOW PATTERN
- PROPOSED CHECK DAM
- PROPOSED LIMITS OF DISTURBANCE
- SWALE (TEMPORARY/PERMANENT AS NOTED)



GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

SEQUENCE OF CONSTRUCTION STEPS:

STEP 1: (SITE PREPARATION)

- INSTALL AND MAINTAIN STABILIZED CONSTRUCTION ENTRANCE AND CONSTRUCTION STAGING AREA WITH CONCRETE WASHOUT (SEE DETAIL).
- CLEAR AND GRUB AS REQUIRED FOR INSTALLATION OF SILT FENCE AND ORANGE CONSTRUCTION FENCE.
- INSTALL PERIMETER SILT FENCE. COMPLETE CLEARING AND GRUBBING OPERATIONS AS NECESSARY.
- CONTRACTOR TO MAINTAIN EXISTING SWALE UNTIL STORM SEWER D-4 TO D-1 IS COMPLETED.

STEP 2: (CONSTRUCTION ACTIVITY)

- STRIP AND STOCKPILE TOPSOIL WITHIN DISTURBANCE LIMITS AND STOCKPILE AT DESIGNATED LOCATION. INSTALL SILT FENCE AROUND PERIMETER OF TOPSOIL PILE AND SEED WITH TEMPORARY SEEDING MIX.
- COMMENCE MASS GRADING OPERATIONS. COMPLETE REQUIRED CUTS AND FILLS. UPON COMPLETION OF THE MASS GRADING OPERATIONS INSTALL ADDITIONAL EROSION CONTROL MEASURES. MEASURES TO BE MAINTAINED BY THE CONTRACTOR UNTIL GROUND COVER HAS BEEN ESTABLISHED.
- CONTRACTOR MAY INSTALL UTILITIES DURING GRADING OPERATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STABILIZE THE SITE AND VERIFY GRADING ELEVATIONS PRIOR TO UTILITY CONSTRUCTION.
- COMPLETE EARTHWORK, INCLUDING FINE GRADING OF SLOPES. SLOPES TO BE REPLACES WITH 6" OF TOPSOIL, MULCHED AND SEEDED WITHIN 2 DAYS OF COMPLETION. . FINE GRADE, TOPSOIL SEED AND MULCH SLOPES AS SOON AS GRADING IS COMPLETED
- COMPLETE INSTALLATION OF UNDERGROUND UTILITIES AND PAVEMENT.
- INSTALL PAVEMENT BASE AND INSTALL ADDITIONAL EROSION CONTROL MEASURES AS NECESSARY TO MINIMIZE SILT DISTRIBUTION ON EXISTING AND CONSTRUCTED ROADWAYS.
- BIO-RETENTION FACILITIES MAY BE INSTALLED ONCE ALL UPSTREAM AREAS HAVE BEEN STABILIZED. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT THE BIORETENTION MEDIA FROM SEDIMENT RUNOFF UNTIL PROJECT COMPLETION.

STEP 3: (STABILIZATION & MONITORING)

- SEED AND MULCH ALL DISTURBED AS REQUIRED BY GP-0-20-001. SEED WITH A SEED MIX AS INDICATED IN CONSTRUCTION EROSION CONTROL NOTES, AND MULCH.
- FROM NOVEMBER 15TH TO APRIL 1ST, IF STRAW MULCH ALONE IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE STANDARD RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE.
- MAINTAIN PERIMETER SILT FENCE AND INLET PROTECTION UNTIL THE ADJACENT SOILS HAVE ACHIEVED 80% STABILIZATION.
- SEE CONSTRUCTION EROSION CONTROL NOTES FOR REQUIRED SEED MIXES AND TEMPORARY/WINTER STABILIZATION METHODOLOGY.
- 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 ENGINEER OR OWNER.

NOT APPROVED

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APPROVALS

BY: _____ DATE: _____
TOWN ENGINEER

BY: _____ DATE: _____
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

BY: _____ DATE: _____
TOWN OF CANANDAIGUA HIGHWAY/WATER SUPERINTENDENT

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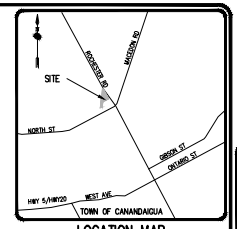

LOCATION MAP

NOT TO SCALE

CONSTRUCTION EROSION CONTROL NOTES:

1. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) CONSISTS OF THE STORMWATER MANAGEMENT REPORT, THE PROJECT PLANS, INCLUDING THE GRADING, CONSTRUCTION EROSION CONTROL PLAN AND DETAIL SHEET, AND THE TOWN OF CANANDAIGUA REQUIREMENTS. THE SWPPP FOR THIS PROJECT IS INTENDED TO CONFORM WITH THE NYSDEC GENERAL PERMIT GP-0-20-001 AND THE REQUIREMENTS OF LOCAL AND NYSDEC AUTHORITIES REGARDING THE CONTROL OF STORMWATER QUANTITY AND QUALITY.
2. THE OWNER IS RESPONSIBLE FOR IMPLEMENTING THE REQUIRED SWPPP. THE OWNER'S CONTRACTOR, SUB-CONTRACTOR AND ALL OTHERS ASSOCIATED WITH THE IMPLEMENTATION OF THE PLAN SHALL BE FAMILIAR WITH THE PLAN AND THE CONDITIONS OF THE NYSDEC GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
3. ANY MODIFICATIONS OR DEVIATIONS FROM THE SWPPP, INCLUDING EROSION CONTROL MEASURES AND STORMWATER MANAGEMENT FACILITIES, SHALL BE DOCUMENTED IN THE INSPECTION REPORT AND CONSIDERED PART OF THE SWPPP FOR THE PROJECT.
4. THE OWNER IS RESPONSIBLE FOR FILING THE NOTICE OF INTENT (NOI) FOR CONSTRUCTION ACTIVITY WITH NYSDEC PRIOR TO COMMENCING ANY CONSTRUCTION. A COPY OF THE NOI SHALL BE KEPT ON-SITE AND PROVIDED TO THE MUNICIPALITY.
5. THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ON SITE INSPECTIONS BY A LICENSED PROFESSIONAL REGARDING EROSION CONTROL DURING CONSTRUCTION. INSPECTIONS ARE TO BE PROVIDED AT A MINIMUM OF ONCE A WEEK FOR DISTURBANCES LESS THAN 5 ACRES. AN INSPECTION REPORT LOG AND THE SWPPP ARE TO BE KEPT ON-SITE BY THE OWNER.
6. FOR SITES WHERE SOIL DISTURBANCE ACTIVITIES HAVE BEEN TEMPORARILY SUSPENDED (E.G. WINTER SHUTDOWN) AND TEMPORARY STABILIZATION MEASURES HAVE BEEN APPLIED TO ALL DISTURBED AREAS, THE OWNER/OPERATOR MAY REDUCE THE SELF-INSPECTION FREQUENCY, BUT SHALL MAINTAIN A MINIMUM OF MONTHLY INSPECTIONS. (30 CALENDAR DAYS)
7. THE OWNER'S CONTRACTOR/REPRESENTATIVE SHALL IDENTIFY AT LEAST ONE INDIVIDUAL TO BE TRAINED FROM THEIR COMPANY THAT WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPP. THE INDIVIDUAL MUST RECEIVE (4) HOURS OF NYSDEC TRAINING EVERY (3) YEARS. THE OWNER/OPERATOR SHALL ENSURE THAT AT LEAST ONE OF THE TRAINED INDIVIDUALS IS ON SITE ON A DAILY BASIS WHEN SOIL DISTURBANCE ACTIVITIES ARE BEING PERFORMED.
8. FOR DISTURBANCES LESS THAN 5 ACRES, IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES MUST BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN 14 DAYS. FROM THE DATE THE CURRENT SOIL DISTURBANCE ACTIVITY CEASED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY GROUNDCOVER, THE DISTURBED AREAS SHALL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL. ADDITIONAL TIME FRAMES FOR STABILIZATION ARE SUBJECT TO THE REQUIREMENTS OF A REGULATED TRADITIONAL LAND USE MS4.
9. THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION.
10. THE BIORETENTION FACILITIES AND DRY SWALE MAY NOT BE CONSTRUCTED UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
11. ALL DISTURBED AREAS TO BE RESTORED PER TABLE 5.3 SOIL RESTORATION REQUIREMENTS FOUND IN CHAPTER 5: GREEN INFRASTRUCTURE PRACTICES OF THE NYS STORMWATER MANAGEMENT DESIGN MANUAL. PLEASE REVIEW WITH PROJECT MANAGER.
12. ALL DISTURBED AREAS TO BE RECLAIMED WITH A MINIMUM OF 6" TOPSOIL.
13. AREAS OR EMBANKMENTS REQUIRING AN EROSION CONTROL BLANKET SHALL UTILIZE ECS-1B (EASTCOAST) OR AN APPROVED EQUIVALENT.
14. 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. IMMEDIATELY FERTILIZE WITH 300 LBS PER ACRE (OR 7 LBS. PER 1000 SQ. FT.) OF 10-10-10 FERTILIZER. IMMEDIATELY SEED WITH THE FOLLOWING MIX:

	LBS./ACRE	LBS./1000 SQ. FT.
ANNUAL RYEGRASS	40	1
PERENNIAL RYEGRASS	40	1
OATS	40	1
WHITE CLOVER (+ INOCULANT)	4	0.1

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

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

	LBS/ACRE	% BY PURITY	% GERM
PERENNIAL RYE GRASS	35	85	85
RED FESCUE	35	97	80
KENTUCKY BLUEGRASS	30	85	80

SEEDING RATE: 6.0 LBS PER 1,000 SQ FT.
MULCH: STRAW OR WOOD FIBER MULCH USED WITH HYDROSEEDING METHOD, AT TWO TONS PER ACRE WITH TACKIFIER
STARTING FERTILIZER: 5-10-10 AT 20 LBS PER 1,000 SQ. FT

16. SLOPES 3:1 OR GREATER SHALL BE SEEDED WITH HEAVY MULCH AND MAY REQUIRE ADDITIONAL STABILIZATION MEASURES. SLOPES SHALL BE FINE GRADED WITH A MINIMUM OF 6" TOPSOIL AND SEEDED WITH FOLLOWING SEED MIX:

NATIVE STEEP SLOPE MIX WITH ANNUAL RYE GRASS – ERNMX-181

32.2%	Sorghastrum nutans	INDIANGRASS
20%	Lolium multiflorum	ANNUAL RYEGRASS
17%	Elymus virginicus	VIRGINIA WILDRYE
8%	Andropogon gerardii	BIG BLUESTEM
6%	Agrostis perennans	AUTUMN BENTGRASS
3%	Panicum virgatum "Shawnee"	SWITCHGRASS
2.5%	Echinacea purpurea	PURPLE CONEFLOWER
2%	Agrostis scabra	TICKLEGRASS
2%	Tridens flavus	PUPLETOP
2%	Chamaecrista fasciculata	PARTRIDGE PEA
1%	Coreopsis lanceolata	LANCELEAF COREOPSIS
1%	Helianthus helianthoides	OXEYE SUNFLOWER
1%	Rudbeckia hirta	BLACKEYED SUSAN
0.7%	Lespedeza virginica	SLENDER BUSHCLOVER
0.6%	Liatris spicata	MARSH BLAZING STAR
0.5%	Monarda fistulosa	WILD BERGAMONT
0.4%	Aster novae-angliae	NEW ENGLAND ASTER
0.1%	Pycnanthemum tenuifolium	SLENDER MOUNTAINMINT

SEEDING RATE: 60 LBS PER ACRE OR 1 LB PER 1000 SF
INOCULANT: RATE AS RECOMMENDED BY THE MANUFACTURER (FOR HYDROSEEDING USE FOUR TIMES MANUFACTURER'S RECOMMENDED RATE)
MULCH: STRAW OR WOOD FIBER MULCH USED WITH A HYDROSEEDING METHOD. AT TWO TONS PER ACRE WITH TACKIFIER.

19. FLOOD TOLERANT EROSION CONTROL SEED MIX TO BE PROVIDED AS FOLLOWS:

	% OF WEIGHT
PERENNIAL RYE GRASS	20
ANNUAL RYEGRASS	20
RED TOP	20

MULCH: STRAW OR WOOD FIBER MULCH USED WITH A HYDROSEEDING METHOD AT TWO TONS PER ACRE WITH TACKIFIER.

20. THE STORMWATER PONDING AREA AT THE SOUTHWEST CORNER OF THE PROPERTY SHALL BE SEEDED WITH "OBL WETLAND SEED MIX" (ERNMX-131) BY ERNST CONSERVATION SEEDS, OR APPROVED EQUAL AS SHOWN
21. ALL SEEDED AREAS ARE TO BE MONITORED FOR GERMINATION AND EROSION. ERODED AREAS ARE TO BE BACKFILLED, FINE GRADED AND RE-SEEDED. AREAS THAT FAIL TO GERMINATE A MINIMUM OF 80% SHALL BE RE-SEEDED.
22. ANY EXCAVATIONS THAT MUST BE DEWATERED SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE BEFORE ENTERING AN ACTIVE DRAINAGE SYSTEM OR DISPERSED TO AN UNDISTURBED AREA.
23. THE OWNER SHALL BE RESPONSIBLE FOR REMOVING EXISTING EROSION CONTROL MEASURES THAT ARE LOCATED WITHIN ESTABLISHED AREAS. MATERIALS ARE TO BE DISPOSED OF PROPERLY.
24. UPON COMPLETION OF CONSTRUCTION AND FINAL STABILIZATION THE OWNER MAY FILE A NOTICE OF TERMINATION (NOT) WITH NYSDEC PER THE REQUIREMENTS OF THE GENERAL PERMIT GP-0-20-001.

PHELPS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

	DATE	BY
7		
6		
5		
4		
3		
2	6/17/21	AND
1	REVISED PER PRC COMMENTS	
	REVISIONS	

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
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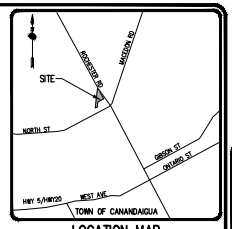
STATE OF NEW YORK — GEORGE E. — 095277 — LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APOGEE DEVELOPMENT LTD. PO BOX 810 CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: PRELIMINARY/FINAL CONSTRUCTION EROSION CONTROL PLAN

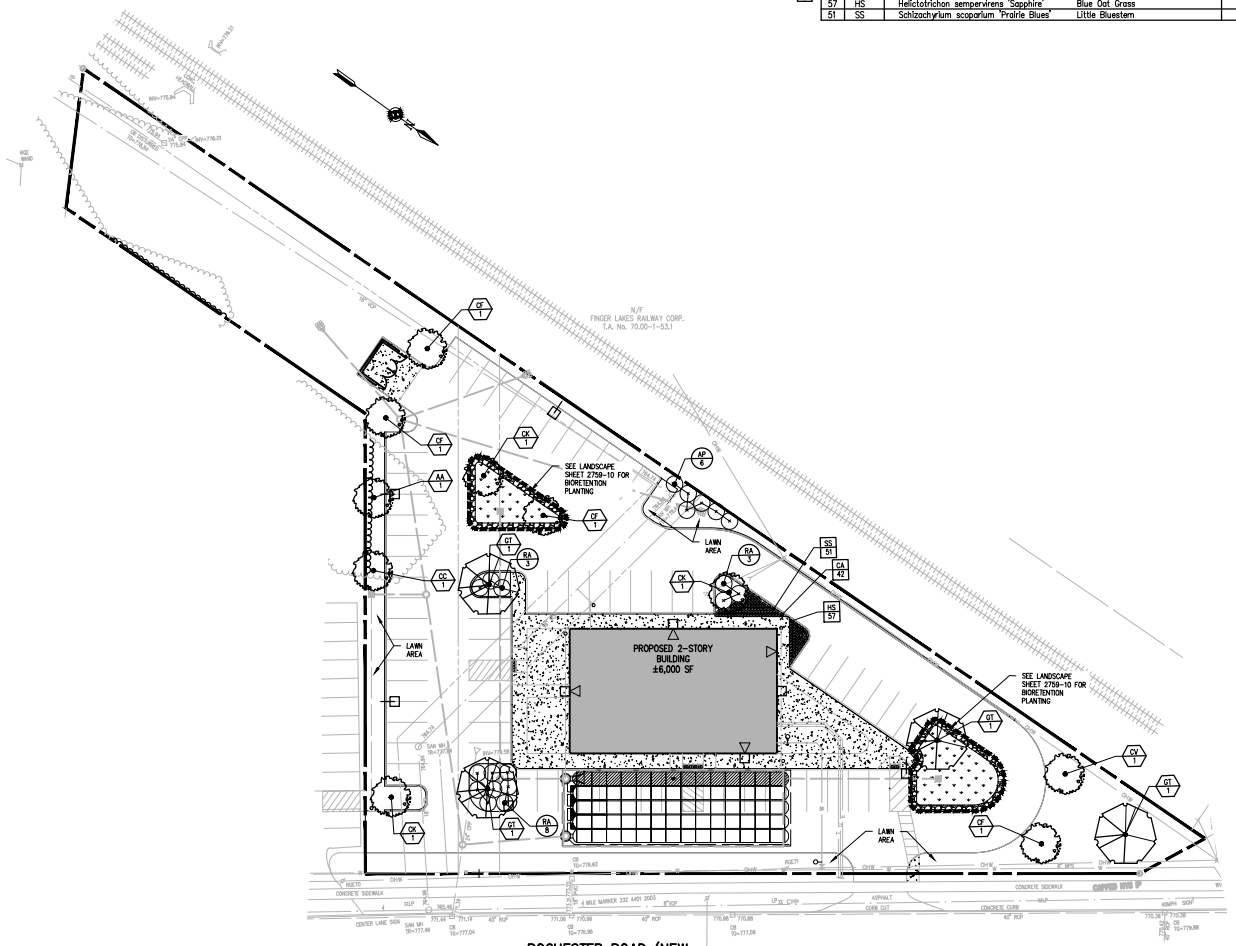
PROJECT MANAGER	PO VARS
PROJECT ENGINEER	JC CRETEKOS
DRAWN BY	AN D'ANGELO
SCALE	1"=30"
DATE ISSUED	JUNE 9, 2021
PROJECT NO.	2759
DRAWING NO.	08

SITE PLANT MATERIALS LIST

	QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
	TREES						
XX XX	1	AA	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5" cal	B&B	
	1	CC	Cercis canadensis 'Forest Pansy'	Forest Pansy Redbud	2.5" cal	B&B	
	4	CF	Cornus florida	Flowering Dogwood	2.5" cal	B&B	
	3	CK	Cornus kousa	Kousa Dogwood	2.5" cal	B&B	
	1	CV	Crataegus viridis 'Winter King'	Winter King Hawthorn	2.5" cal	B&B	
	4	GT	Gleditsia triacanthos var. inermis 'Shademaster'	Honeylocust	2.5" cal	B&B	
	SHRUBS						
XX XX	6	AP	Aesculus parviflora	Bottlebrush Buckeye	24"	B&B	or cont
	8	RA	Rhus aromatica 'Gro-low'	Gro-low Sumac	24"	B&B	or cont
	PERENNIALS/GRASSES						
XX XX	42	CA	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1	cont.	
	57	HS	Helictotrichon sempervirens 'Sapphire'	Blue Oat Grass	#1	cont.	
	51	SS	Schizachyrium scoparium 'Prairie Blues'	Little Bluestem	#1	cont.	



LOCATION MAP
NOT TO SCALE



SEE LADSCAPE SHEET 02 (BME DWG. #2759-10) FOR LANDSCAPE DETAILS

LANDSCAPE NOTES:

1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED IN THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, ANSI Z60.1-2004.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFFS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
4. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF FIVE FEET (5') FROM THE HORIZONTAL LINE OF UNDERGROUND UTILITIES TO THE PLANT BALL.
5. ALL TREES SHALL BE LOCATED A MINIMUM DISTANCE OF TEN FEET (10') FROM THE HORIZONTAL LINE OF OVERHEAD UTILITIES TO THE PLANT BALL.
6. PLANTING SOIL MIXTURE SHALL HAVE A RATIO BY VOLUME OF FOUR PARTS TOPSOIL TO ONE PART PEAT. SOIL AMENDMENTS TO BE MODIFIED PER INDIVIDUAL PLANT MATERIAL REQUIREMENTS.
7. STAKE TREES IMMEDIATELY AFTER PLANTING. REFER TO DETAIL.
8. PROVIDE ALL PLANTING BEDS WITH A CONTINUOUS 3" LAYER OF MULCH. MULCH SHALL BE PROVIDED AS FOLLOWS: 100 % SHREDDED HARDWOOD MULCH, NO GREATER THAN 1" IN SIZE, UNIFORMLY MIXED AND FREE FROM DELETERIOUS MATERIAL. WEED BARRIER TO BE INSTALLED IN ALL MULCHED AREAS.
9. SEED ALL AREAS NOT PAVED, PLANTED OR SPECIFIED OTHERWISE WITH LAWN SEED. 4" MIN. CLEAN TOPSOIL REQUIRED IN ALL DISTURBED AREAS.

   A. LAWN SEED MIXTURE SHALL BE PROVIDED AS FOLLOWS:

	% BY WEIGHT	% BY PURITY	% GERM
'REPELL', 'CITATION' & 'MORNING STAR' PERENNIAL RYE GRASS	40	85	85
'JAMESTOWN II', 'FORTRESS', 'ENSYLVA' RED FESCUE	20	97	80
'BARON' & 'MIDNIGHT' KENTUCKY BLUEGRASS	40	85	80

   SEEDING RATE: 6.0 LBS PER 1,000 SF.
   MULCH: STRAW AT TWO TONS PER ACRE, OR WOOD FIBER MULCH USED WITH A HYDROSEEDING APPLICATION METHOD, WITH TACKIFIER.
   STARTING FERTILIZER: ±-10-10 AT 20 LBS PER 1,000 SF.

   PLEASE REFER TO BME DRAWING # 2759-10 / EROSION CONTROL PLAN FOR FURTHER SEEDING REQUIREMENTS IE.: TEMPORARY SEEDING AND SPECIALIZED SEED MIXES.

10. PROPOSED PLANT MATERIALS SHALL BE FIELD LOCATED, AND THE CONTRACTOR SHALL PERFORM A ROUGH STAKEOUT OF PLANTINGS FOR REVIEW AND APPROVAL BY OWNER PRIOR TO PLANTING.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARE AND MAINTENANCE OF PLANT MATERIALS AND SEEDED AREAS UNTIL FINAL ACCEPTANCE.
12. A MINIMUM 2 YEAR GUARANTEE SHALL BE PROVIDED ON ALL PLANT MATERIALS FROM DATE OF FINAL ACCEPTANCE.
13. ALL EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION OPERATIONS.

GRAPHIC SCALE
30 0 15 30 60
(IN FEET)
1 inch = 30 ft.

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TOWN ENGINEER
BY: _____ DATE: _____
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

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7							
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2	REVISED PER PRC COMMENTS					6/17/21	AND
1	REVISIONS					DATE	BY

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10 LIFT BRIDGE LANE EAST
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WWW.BMEPC.COM
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LICENSED LANDSCAPE ARCHITECT
NEW YORK

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DRAWING TITLE: FINAL LANDSCAPE PLAN

FIELDS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

PROJECT MANAGER	
PO VARS	
PROJECT ENGINEER	
JO CRETEKOS	
DRAWN BY	
R JONES	
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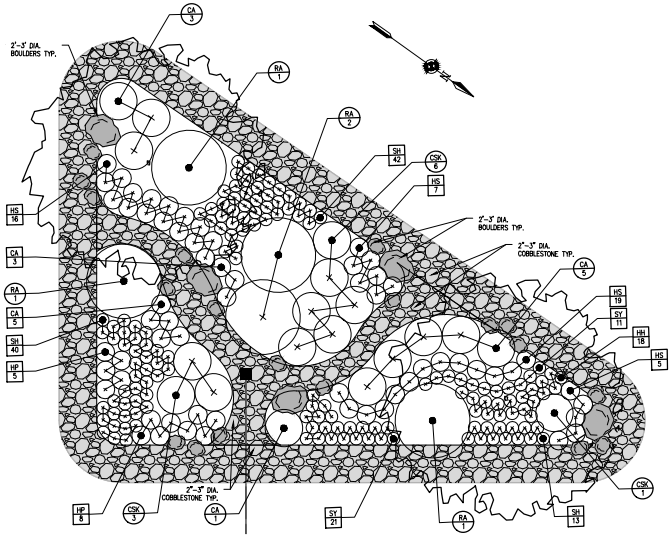
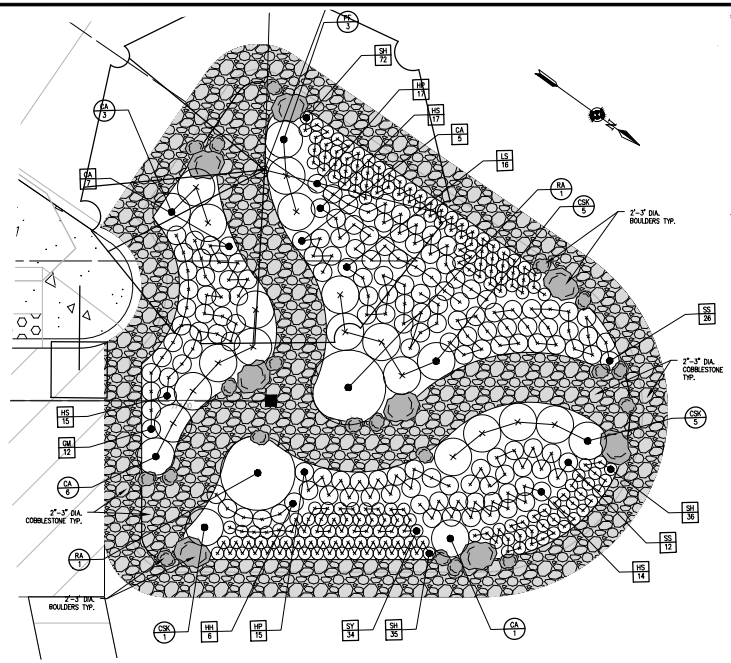


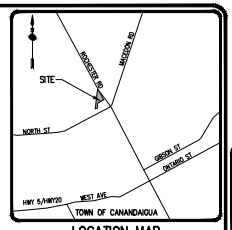
BIORETENTION AREA 1

SCALE: 1"=5'



BIORETENTION AREA 2

SCALE: 1"=5'



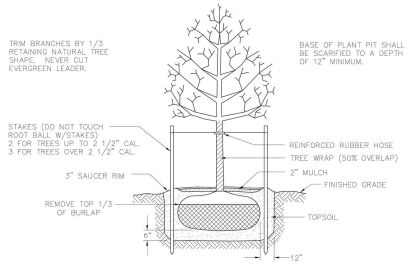
LOCATION MAP

NOT TO SCALE

APPENDIX: FF
DATE: MAY 2008

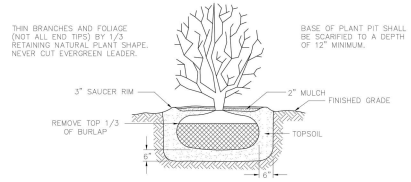
MRB|group
ENGINEERING/ARCHITECTURE/SURVEYING, P.C.
2480 BROWNCROFT BLVD. ROCHESTER, N.Y. 14625

TOWN OF CANANDAIGUA



TYPICAL TREE PLANTING DETAIL

N.T.S.



TYPICAL SHRUB PLANTING DETAIL

N.T.S.

FF

BIORETENTION PLANT MATERIALS LIST

QTY.	KEY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
SHRUBS						
19	CA	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	24"	B&B	or cont
21	CSK	Cornus sericea 'Kelseyi'	Kelsey dwarf dogwood	24"	B&B	or cont
3	PF	Potentilla fruticosa 'Abbotswood'	Potentilla	24"	B&B	or cont
7	RA	Rhus aromatica 'Gro-low'	Gro-low Sumac	24"	B&B	or cont
PERENNIALS/GRASSES						
20	CA	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	#1	cont.	
16	LS	Liatris spicata	Blazing Star	#1	cont.	
24	HH	Hemerocallis 'Happy Returns'	Happy Returns Daylily	#1	cont.	
45	HP	Heuchera 'Southern Comfort'	Coral Bells	#1	cont.	
93	HS	Helictotrichon sempervirens 'Sapphire'	Blue Oat Grass	#1	cont.	
38	SS	Schizachyrium scoparium 'Prairie Blues'	Little Bluestem	#1	cont.	
66	SY	Sedum spectabile 'Autumn Fire'	Autumn Fire Sedum	#1	cont.	
12	GM	Geranium maculatum 'Espresso'	Espresso Geranium	#1	cont.	
238	SH	Sporobolus heterolepis	Prairie Dropseed	#1	cont.	

SEE LADSCAPE SHEET 01 (BME DWG. #2759-09) FOR LANDSCAPE NOTES

GRAPHIC SCALE

5 0 2.5 5 10

(IN FEET)
1 inch = 5 ft.

NOT APPROVED

This plan has not received final approval of all reviewing agencies. This plan is subject to revisions until all approvals are obtained and should not be used for construction purposes.

APPROVALS

BY: DATE:
TOWN ENGINEER

BY: DATE:
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

Drawing Alteration

The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:

"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer or land surveyor is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

	DATE	BY
7		
6		
5		
4		
3		
2	6/17/21	MD
1	REVISED PER PRC COMMENTS	

REVISIONS

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

LICENSED LANDSCAPE ARCHITECT
STEVEN M. BEDARD
NEW YORK

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APEX DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL LANDSCAPE PLAN

PROJECT MANAGER: PD VARS
PROJECT ENGINEER: JD CRETEKOS
DRAWN BY: R JONES
SCALE: 1"=5'
DATE ISSUED: JUNE 9, 2021
PROJECT NO. 2759
DRAWING NO. 10

PHELPS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

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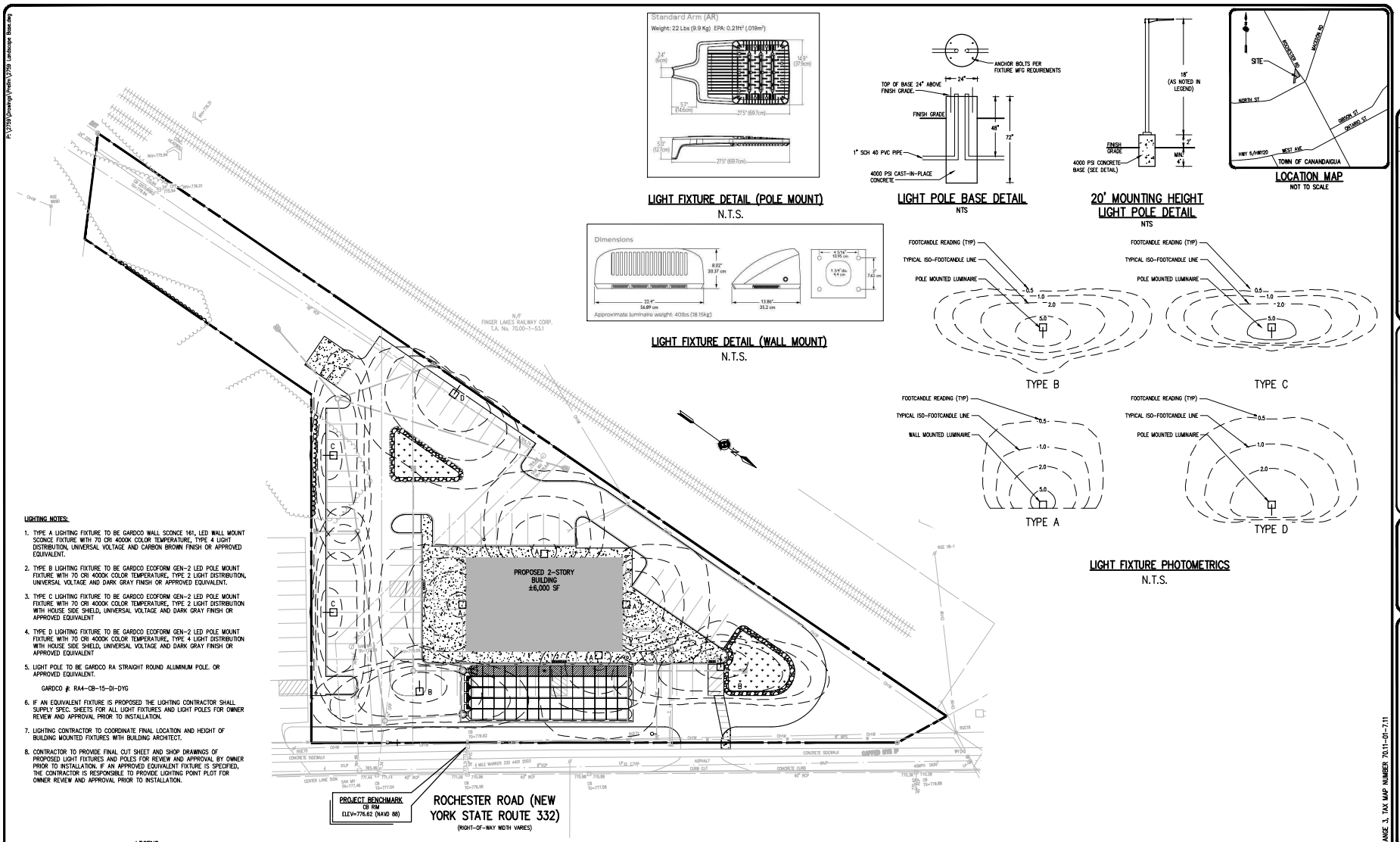
P:\2759\Drawings\Prelim\2759 Landscape Base.dwg



LIGHT FIXTURE DETAIL (POLE MOUNT)

N.T.S.

LIGHT POLE BASE DETAIL

NTS

20' MOUNTING HEIGHT LIGHT POLE DETAIL

NTS

LOCATION MAP

NOT TO SCALE

LIGHT FIXTURE DETAIL (WALL MOUNT)

N.T.S.

LIGHT FIXTURE PHOTOMETRICS

N.T.S.

LIGHTING NOTES:

1. TYPE A LIGHTING FIXTURE TO BE GARDCO WALL SCONCE 161, LED WALL MOUNT SCONCE FIXTURE WITH 70 CRI 4000K COLOR TEMPERATURE, TYPE 4 LIGHT DISTRIBUTION, UNIVERSAL VOLTAGE AND CARBON BROWN FINISH OR APPROVED EQUIVALENT.
2. TYPE B LIGHTING FIXTURE TO BE GARDCO ECOFORM GEN-2 LED POLE MOUNT FIXTURE WITH 70 CRI 4000K COLOR TEMPERATURE, TYPE 2 LIGHT DISTRIBUTION, UNIVERSAL VOLTAGE AND DARK GRAY FINISH OR APPROVED EQUIVALENT.
3. TYPE C LIGHTING FIXTURE TO BE GARDCO ECOFORM GEN-2 LED POLE MOUNT FIXTURE WITH 70 CRI 4000K COLOR TEMPERATURE, TYPE 2 LIGHT DISTRIBUTION WITH HOUSE SIDE SHIELD, UNIVERSAL VOLTAGE AND DARK GRAY FINISH OR APPROVED EQUIVALENT
4. TYPE D LIGHTING FIXTURE TO BE GARDCO ECOFORM GEN-2 LED POLE MOUNT FIXTURE WITH 70 CRI 4000K COLOR TEMPERATURE, TYPE 4 LIGHT DISTRIBUTION WITH HOUSE SIDE SHIELD, UNIVERSAL VOLTAGE AND DARK GRAY FINISH OR APPROVED EQUIVALENT
5. LIGHT POLE TO BE GARDCO RA STRAIGHT ROUND ALUMINUM POLE. OR APPROVED EQUIVALENT.

   GARDCO #: RA4-CB-15-DI-DYG
6. IF AN EQUIVALENT FIXTURE IS PROPOSED THE LIGHTING CONTRACTOR SHALL SUPPLY SPEC. SHEETS FOR ALL LIGHT FIXTURES AND LIGHT POLES FOR OWNER REVIEW AND APPROVAL PRIOR TO INSTALLATION.
7. LIGHTING CONTRACTOR TO COORDINATE FINAL LOCATION AND HEIGHT OF BUILDING MOUNTED FIXTURES WITH BUILDING ARCHITECT.
8. CONTRACTOR TO PROVIDE FINAL CUT SHEET AND SHOP DRAWINGS OF PROPOSED LIGHT FIXTURES AND POLES FOR REVIEW AND APPROVAL BY OWNER PRIOR TO INSTALLATION. IF AN APPROVED EQUIVALENT FIXTURE IS SPECIFIED, THE CONTRACTOR IS RESPONSIBLE TO PROVIDE LIGHTING POINT PLOT FOR OWNER REVIEW AND APPROVAL PRIOR TO INSTALLATION.

LEGEND

- BOUNDARY LINE
- CONTOURLINE
- SETBACK LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- EX. WATERMAIN, HYDRANT AND VALVE
- PROPOSED WATER SERVICE AND CURB STOP
- EXISTING STORM SEWER, AND MANHOLE
- PROPOSED STORM SEWER, MANHOLE AND INLET
- PROPOSED STORM LATERAL

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LUMINAIRE SCHEDULE

Label	Symbol	Qty	Height	Arrangement	Total Lamp Lumens	LLF	Luminaire Description	Lum. Watts	BUG Rating
A	■	4	18'	SINGLE	10,245	1.000	161-46L-600-NW-G2-4	112	B2-U0-G2
B	■	2	20'	SINGLE	13,685	1.000	ECF-S-32L-1A-NW-G2-2	130	B3-U0-G2
C	■	2	20'	SINGLE	13,685	1.000	ECF-S-32L-1A-NW-G2-2-HIS	130	B3-U0-G2
D	■	1	20'	SINGLE	14,006	1.000	ECF-S-32L-1A-NW-G2-4-HIS	136	B4-U0-G2

NOT APPROVED

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GRAPHIC SCALE

30 0 15 30 60

(IN FEET)
1 inch = 30 ft.

APPROVALS

BY: _____ DATE: _____
TOWN ENGINEER

BY: _____ DATE: _____
TOWN OF CANANDAIGUA PLANNING BOARD CHAIRPERSON

Drawing Alteration

The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:

"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

	DATE	BY
7		
6		
5		
4		
3		
2	6/17/21	MD
1	REVISED PER PRC COMMENTS	

REVISIONS

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

LICENSED LANDSCAPE ARCHITECT
JOSEPH C. CREEKOS
NO. 1352
STATE OF NEW YORK

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APOGEE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL LIGHTING PLAN

PHELPS & GORHAM PURCHASE, TOWNSHIP 10, RANGE 3, TAX MAP NUMBER 70.11-01-7.11

PROJECT MANAGER	PC VARS
PROJECT ENGINEER	JC CREEKOS
DRAWN BY	R JONES
SCALE	1"=30'
DATE ISSUED	JUNE 9, 2021
PROJECT NO.	2759
DRAWING NO.	11

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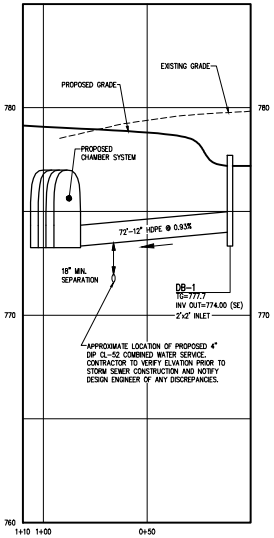
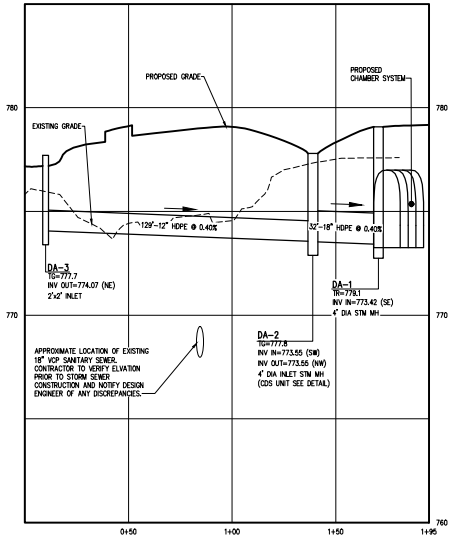


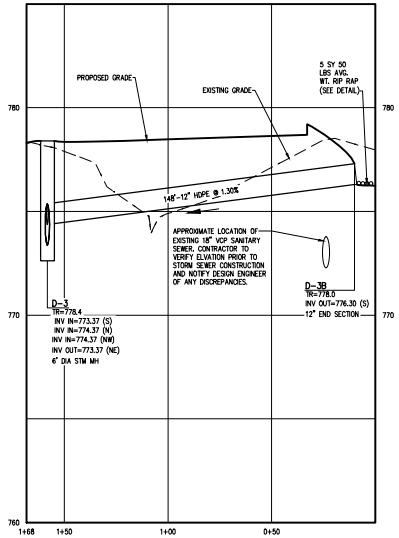
STORM SEWERS D-B1 TO CHAMBER

SCALE: HORIZ: 1"=30'
VERT: 1"=3'



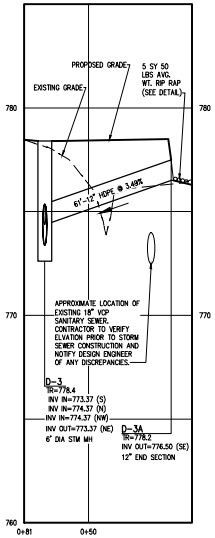
STORM SEWERS DA-3 TO DA-1

SCALE: HORIZ: 1"=30'
VERT: 1"=3'



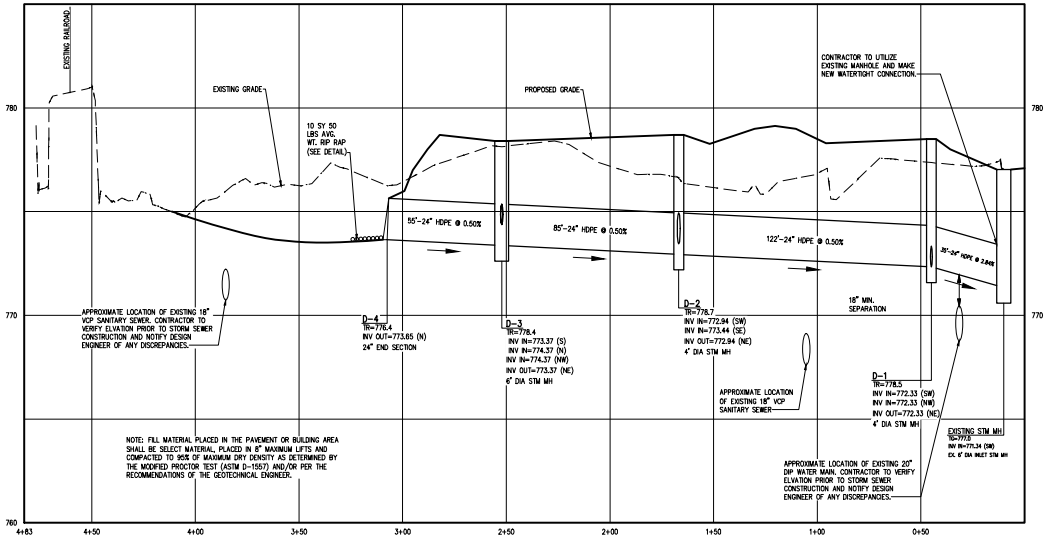
STORM SEWERS D-3B TO D-3

SCALE: HORIZ: 1"=30'
VERT: 1"=3'



STORM SEWERS D-3A TO D-3

SCALE: HORIZ: 1"=30'
VERT: 1"=3'



STORM SEWERS D-1 TO POND

SCALE: HORIZ: 1"=30'
VERT: 1"=3'

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Drawing Alteration
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7			
6			
5			
4			
3			
2	REVISED PER PRC COMMENTS	6/17/21	AND
1	REVISIONS	DATE	BY

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

STATE OF NEW YORK · GEORGE E. · 095274 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
PUD APPLICATION
LOCATION: TOWN OF CHARLOTTE, NEW YORK STATE
CLIENT: APPOSE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL PROFILE SHEET

PROJECT MANAGER	
PC VARS	
PROJECT ENGINEER	
JC CRESKOS	
DRAWN BY	
AN D'ANGELO	
SCALE	DATE ISSUED
AS NOTED	JUNE 9, 2021
PROJECT NO.	
2759	
DRAWING NO.	
12	

APPENDIX: EE-1
DATE: AUGUST 2009

MRB|group
ENGINEERING • ARCHITECTURE • SURVEYING, P.C.
2495 BROADBELT BLVD. ROCHESTER, N.Y. 14609

TOWN OF CANANDAIGUA

TOWN OF CANANDAIGUA 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. SHOP DRAWINGS WITH ALL CALCULATIONS REQUIRED FOR THE ACCEPTANCE OF THE WATER QUALITY DRAINAGE AND SEWER SYSTEMS SHALL BE SUBMITTED TO THE TOWN ENGINEER FOR REVIEW BY A LICENSED PROFESSIONAL OR A CERTIFIED PERSON IN DRAINAGE AND SEWAGE SYSTEMS DESIGN UNTIL SUCH TIME THAT THE MAIN GRADING IS COMPLETED.

3. DEVELOPMENT IN CANANDAIGUA LAKE WATERSHED DISTURBING MORE THAN 5-ACRES AT ONE TIME, SHALL BE REQUIRED TO COORDINATE THE REGULAR SWPPP OBSERVATIONS REQUIRED BY THE GENERAL PERMIT (GPD-08-001) WITH THE CANANDAIGUA LAKE WATERSHED INSPECTOR AND THE WATERSHED PROGRAM MANAGER.

4. SEQUENCE - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE FOLLOWING SEQUENCE UNLESS AUTHORIZED OTHERWISE AT THE PRE -CONSTRUCTION MEETING:

- INSTALL PERIMETER SEDIMENT CONTROLS. (I.E. EROSION FENCING).
- INSTALL STABILIZED CONSTRUCTION ENTRANCE.
- INSTALL INLET PROTECTION.
- CLEAR GRUB AND CONSTRUCT DISCIPLINARY BERMS AND SEDIMENT BASINS.
- COMPLETE CLEARING AND GRUBBING OPERATION.
- PLACE EROSION CONTROL BLANKETS AROUND SWALES, ENDWALLS AND PIPE OUTFALL LOCATIONS.
- COMPLETE ROUGH GRADING AND INSTALL UNDERGROUND UTILITIES AND STORM SEWERS.
- MAINTAIN EROSION CONTROL MEASURES AND PLACE ADDITIONAL MEASURES AS DISTURBANCE AND UNDERGROUND UTILITIES ARE CONSTRUCTED.
- COMPLETE FINAL GRADING AND INSTALL UTILITY CONNECTIONS.
- MONITOR EROSION CONTROL MEASURES AS AREAS ARE DISTURBED WITH GROUND COVER.
- IF SITE PREPARATION OCCURS BETWEEN SEPTEMBER 1 AND MARCH 31, ADDITIONAL EROSION CONTROLS SHALL BE PLACED ON DISTURBED AREAS DURING THE SIZE OF DISTURBED AREA DURING WORK FRAME WILCH MORE PRACTICAL.

5. PLANS SHOULD INCLUDE RE-SEEDING INSTRUCTIONS INCLUDING MATERIALS AND A TIMETABLE FOR VARIOUS SEEDING.

6. SEED ALL CUT AND FILL TOPSOIL PILES AND PONDS WITHIN FOURTEEN (7) DAYS AFTER COMPLETION.

7. TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE PREPARED AS FOLLOWS:

THE SURFACE TWO INCHES OF SOIL SHOULD BE LOOSENED BY DISKING, RAKING, OR BACK-BLADING WITH A BULLDOZER, SUBSOILER OR SIMILAR MEANS. APPLY SEED AND FERTILIZER PER 1000 SQUARE FEET OF 10-10-10 FERTILIZER. IMMEDIATELY SEED WITH THE FOLLOWING MIX:

	LBS/ACRE	LBS/1,000 SQ. FEET
ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	40	1
PERENNIAL RYEGRASS	32	0.75
LIME (AGRICULTURAL GRADE)	1,000	0.4

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

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

	SEEDING RATE	UNLADEN PULVER.
	LBS/AC	LBS/1,000 SQ. FEET
ASTRONT TURFS, OR COMMON WHITE CLOVER	2 LBS	0.05
TALL FESCUE	40	1
KENTUCKY BLUEGRASS (PERENNIAL)	2 LBS	0.05 LBS
SEEDING RATE:	5.0 POUNDS PER 1,000 SQUARE FEET	
MULCH:	2 TONS PER ACRE OF STRAW MULCH WITH HYDRO SEEDING METHOD AT TWO TONS PER ACRE WITH TRACTOR.	
STARTING FERTILIZER:	10-10-10 AT 30 POUNDS PER 1,000 SQUARE FEET.	

- FOR FALL OR EARLY WINTER, SEED WITH CERTIFIED "ARIDOLOR" OR RYE (SEREAL RYE) AT 100 POUNDS PER ACRE.
- IMMEDIATE STABILIZATION FOR STEEP SLOPES GREATER THAN 3:1 SHALL INCLUDE JUTE MESH BLANKET AND GROWN VETCH SEED WITH PERENNIAL RYEGRASS.

APPENDIX: EE-2
DATE: SEPTEMBER 2008

MRB|group
ENGINEERING • ARCHITECTURE • SURVEYING, P.C.
2495 BROADBELT BLVD. ROCHESTER, N.Y. 14609

TOWN OF CANANDAIGUA

4. THE CONTRACTOR SHALL LOCATE, MARK, SAFEGUARD AND PRESERVE ALL SURVEY CONTROL MONUMENTS AND RIGHT-OF-WAY MONUMENTS IN THE AREAS OF CONSTRUCTION.

5. EXISTING UNDERGROUND UTILITIES SHOWN HEREON WERE PLOTTED FROM FIELD LOCATIONS AND/OR UTILITY COMPANY RECORDS PLANS. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL THE BIG SAFETY NEW YORK UTILITY LOCATION SERVICE (1-800-962-7962) TO MARK THE LOCATION OF 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.

6. 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.

7. THE OWNER'S CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT, MAINTENANCE, CLEANING, REPAIR AND REPLACEMENT OF EROSION CONTROL MEASURES DURING SITE CONSTRUCTION.

8. ROOF LEADERS SHALL BE CONNECTED TO STORM SEWERS.

9. NO SITE PREPARATION SHALL COMMENCE UNTIL A VISUAL INSPECTION BY THE TOWN OF CANANDAIGUA, CONFIRMS THE INSTALLATION OF PERIMETER SEDIMENT CONTROLS.

10. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF VEGETATION, THE SILT SINK IN THE STORMWATER MANAGEMENT AREA SHALL BE CLEANED OF ACCUMULATED SILT AND SEEDED WITH WETLAND TYPE VEGETATION TO PROVIDE PERMANENT FILTRATION OF STORMWATER.

11. THE HOMEBUILDERS WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING INDIVIDUAL LOT EROSION & SEDIMENT CONTROL MEASURES, THE CURRENT ROUGH CONSTRUCTION. MEASURES TO BE MAINTAINED UNTIL FINAL LOT LANDGRADING AND SEED IS COMPLETE.

12. ANY ADDITIONAL EROSION OR SEDIMENT CONTROL DEEMED NECESSARY BY THE TOWN OR A REPRESENTATIVE THEREOF SHALL BE PROVIDED BY THE OWNER.

13. EROSION CONTROL MEASURES AND TO BE ESTABLISHED PRIOR TO COMMENCING EARTHWORK. SEDIMENT CONTROL MEASURES AND TO BE MAINTAINED BY THE CONTRACTOR UNTIL UPSTREAM GROUND COVER HAS BEEN ESTABLISHED AND REMOVAL IS APPROVED BY THE TOWN OF CANANDAIGUA.

14. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING, REPLACING AND SUBSEQUENTLY REMOVING TEMPORARY EROSION & SEDIMENT CONTROL DEVICES.

15. 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.

16. ANY FINAL GRADE DEVIATIONS OF HIGHER THAN FIVE TENTHS (0.5) FEET OR MORE SHALL BE APPROVED BY THE PLANNING BOARD.

MAINTENANCE SCHEDULE

1. CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 3 YEARS FROM THE DATE OF INITIAL PLANTING.

2. FLOOD PLANTS TRICE WITHIN THE FIRST 24 HOURS.

3. PRUNING MAY BE DONE OVER A PERIOD OF TIME (2-4 YEARS) AND THEN REPEAT THE CYCLE. SOME COMPANIES OFFER REDUCED RATES FOR THIS PRUNING DURING THE WINTER MONTHS.

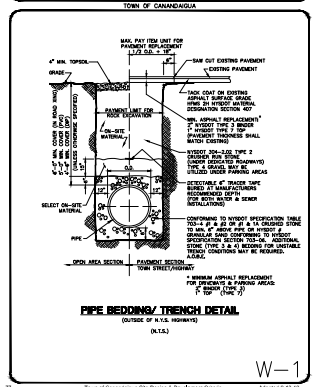
4. FERTILIZATION MAY ALSO BE DONE OVER A PERIOD OF TIME WITH REPEATING CYCLES.

5. SPRAY PROGRAMS SHOULD BE DONE YEARLY. PESTICIDES USED IN PROGRAMS TODAY ONLY HAVE A TEN DAY EFFECTIVE LIFE.

APPENDIX: W-1
DATE: SEPTEMBER 2008

MRB|group
ENGINEERING • ARCHITECTURE • SURVEYING, P.C.
2495 BROADBELT BLVD. ROCHESTER, N.Y. 14609

TOWN OF CANANDAIGUA



PIPE BEDDING/ TRENCH DETAIL

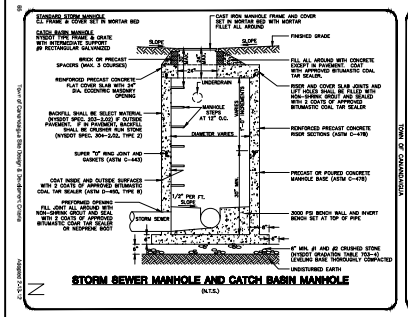
(OUTSIDE OF N.Y.S. HIGHWAYS)

(N.T.S.)

W-1

APPENDIX: N
DATE: JUNE 2009

TOWN OF CANANDAIGUA

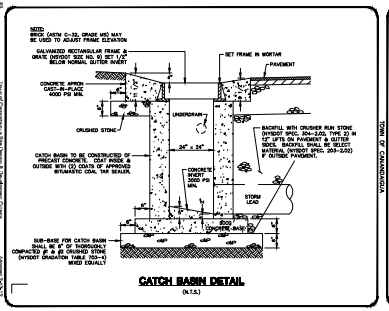


STORM SEWER MANHOLE AND CATCH BASIN MANHOLE

(N.T.S.)

APPENDIX: N
DATE: JUNE 2009

TOWN OF CANANDAIGUA



CATCH BASIN DETAIL

(N.T.S.)

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

7			
6			
5			
4			
3			
2	REVISED PER PRC COMMENTS	6/17/21	AND
1	REVISIONS	DATE	BY

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

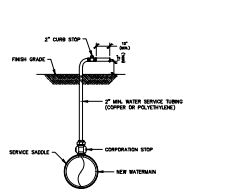
STATE OF NEW YORK · GEORGE E. SAYER · 095274 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APOGEE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL DETAIL SHEET

PROJECT MANAGER: PO VARS
PROJECT ENGINEER: JO CRETEKOS
DRAWN BY: AN D'ANGELO
SCALE: N/A
DATE ISSUED: JUNE 9, 2021
PROJECT NO.: 2759
DRAWING NO.: 13

APPENDIX: W - 3.0
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100

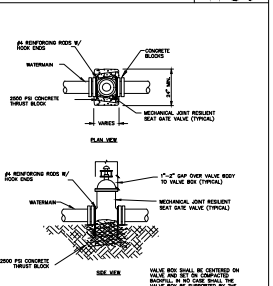


NOTES:
1. ALL NOTIFICATION FROM THE HEALTH DEPARTMENT THAT A SATISFACTORY BACTI SAMPLE HAS BEEN OBTAINED, SHALL DOWN CORPORATION STOP AND REMOVE THE SERVICE TUBING.
2. IMMEDIATELY PRIOR TO PLACING THE WATER MAIN IN SERVICE THE CONTRACTOR SHALL REMOVE ALL CORPORATIONS ASSOCIATED WITH TEMPORARY FACILITIES (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.

DISINFECTION / SAMPLING TAP / BLOW-OFF

APPENDIX: W - 5.0
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100



LINE VALVE ANCHOR DETAIL

APPENDIX: W - 10.0
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100

		TEST PRESSURE (P.S.I.)				
		200	225	250	275	300
	PIPE DIA. (INCHES)	ALLOWABLE LEAKAGE (G.P.H.)				
D.I.P. AWWA C-151 or DIN	4	0.44	0.48	0.71	0.75	0.78
	6	0.66	0.90	0.95	1.00	1.04
	10	1.08	1.13	1.19	1.24	1.30
	12	1.28	1.35	1.42	1.49	1.56
P.V.C. AWWA C-900 or DIN	4	0.37	0.41	0.44	0.67	0.70
	6	0.78	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.

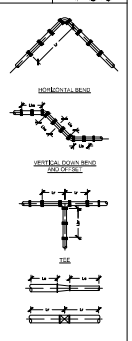
WATERMAIN PRESSURE TEST

APPENDIX: W - 11.1
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100

PIPE SIZE (INCHES)	90° BEND	45° BEND	22½° BEND	11¼° BEND	TEE	DEAD END
4	9 FT.	5 FT.	3 FT.	2 FT.	9 FT.	36 FT.
6	13 FT.	7 FT.	4 FT.	3 FT.	9FL	36 FT.
8	18 FT.	9 FT.	5 FT.	3 FT.	9 FT.	36 FT.
10	22 FT.	11 FT.	6 FT.	3 FT.	9 FT.	36 FT.
12	26 FT.	13 FT.	7 FT.	4 FT.	9 FT.	36 FT.
16	35 FT.	17 FT.	9 FT.	4 FT.	9 FT.	36 FT.

NOTES:
1. ALL BENDS (BEYOND CHAMBER) ARE CALCULATED AT VERTICAL THE FIRST REFERENCED LENGTH (FIRST) IS FOR THE WATER-FILLED BENDS AND THE SECOND REFERENCED LENGTH (SECOND) IS FOR THE AIR-FILLED BENDS. THE LENGTHS WERE CALCULATED USING A CHAMBER OF 3 FOOT DEPTH OF COVER FOR THE WATERMAIN.



HORIZONTAL BEND RESTRAINT

PIPE SIZE	90°	45°	22½°	11¼°
4	26/33	14/5	7/3	4/3
6	40/53	20/25	10/13	5/6
8	55/72	28/36	14/18	7/9
10		40/48	19/25	10/13
12		47/58	24/30	12/15
16		62/78	31/40	16/20

NOTES:
1. HORIZONTAL RESTRAINED LENGTH FOR VERTICAL BEND ASSUME A MINIMUM 10' LENGTH OF PIPE STRADDLE 10 FEET ON EITHER SIDE OF THE BEND.
2. ALL BEND RESTRAINED LENGTHS ARE BASED ON 150 PSI WORKING PRESSURE.
3. ALL BEND RESTRAINED LENGTHS ARE BASED ON 3 FOOT COVER OVER PIPE.
4. BOLT-ONS SERVICE CONSTRUCTION PLATE, PLUGS, VALVES AND FITTINGS.

VERTICAL BEND RESTRAINT

PIPE SIZE	90°	45°	22½°	11¼°
4	26/33	14/5	7/3	4/3
6	40/53	20/25	10/13	5/6
8	55/72	28/36	14/18	7/9
10		40/48	19/25	10/13
12		47/58	24/30	12/15
16		62/78	31/40	16/20

NOTES:
1. ALL BEND (BEYOND CHAMBER) ARE CALCULATED AT VERTICAL THE FIRST REFERENCED LENGTH (FIRST) IS FOR THE WATER-FILLED BENDS AND THE SECOND REFERENCED LENGTH (SECOND) IS FOR THE AIR-FILLED BENDS. THE LENGTHS WERE CALCULATED USING A CHAMBER OF 3 FOOT DEPTH OF COVER FOR THE WATERMAIN.
2. HORIZONTAL RESTRAINED LENGTH FOR VERTICAL BEND ASSUME A MINIMUM 10' LENGTH OF PIPE STRADDLE 10 FEET ON EITHER SIDE OF THE BEND.
3. ALL BEND RESTRAINED LENGTHS ARE BASED ON 150 PSI WORKING PRESSURE.
4. ALL BEND RESTRAINED LENGTHS ARE BASED ON 3 FOOT COVER OVER PIPE.
5. BOLT-ONS SERVICE CONSTRUCTION PLATE, PLUGS, VALVES AND FITTINGS.

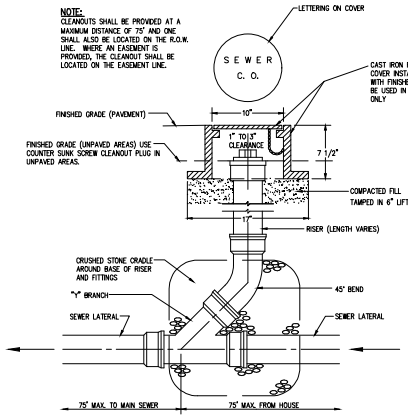
PIPE SIZE	VALVE
4"	24"
6"	24"
8"	24"
10"	24"
12"	24"
16"	24"

RESTRAINED LENGTHS FOR REDUCING FITTINGS

RESTRAINED LENGTHS FOR VALVES

MECHANICAL JOINT PIPE RESTRAINTS

NOTE:
CLEANOUTS SHALL BE PROVIDED AT A MAXIMUM DISTANCE OF 75' AND ONE SHALL ALSO BE LOCATED ON THE R.O.W. LINE. WHERE AN EASEMENT IS PROVIDED, THE CLEANOUT SHALL BE LOCATED ON THE EASEMENT LINE.



SANITARY/STORM CLEANOUT DETAIL

N.T.S.

APPENDIX: W - 12.0
DATE: 2018
SCALE: N.T.S.

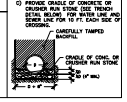
TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100

CONDITION	SCHEMATIC	REQUIREMENTS
I WATER LINE ABOVE SEWER LINE	WL / SL / D / WL / SL / D / WORK THAN 18" / 24"	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 BELOW SEWER LINE	WL / SL / D / 24" (MIN.) / 24"	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	WL / SL / D / 18" (MIN.) / 18"	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

APPENDIX: W - 14.0
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
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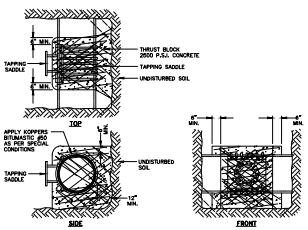

TYPICAL TAPPING SADDLE FOR 6" & LARGER WATER MAINS

APPENDIX: W - 13.0
DATE: 2018
SCALE: N.T.S.

TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
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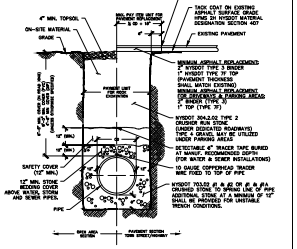
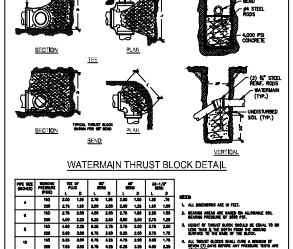


TRENCH DETAIL

APPENDIX: W - 11.0
DATE: 2018
SCALE: N.T.S.

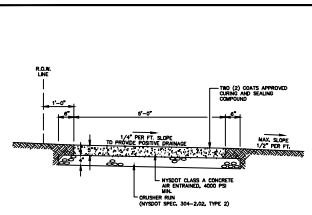
TOWN OF
FARMINGTON
1000 County Road #8
Farmington, NY 14425
(315) 986-8100



WATERMAIN THRUST BLOCK DETAIL

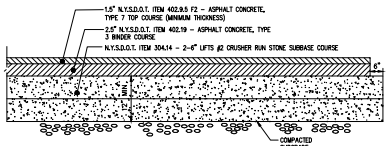
PIPE SIZE (INCHES)	BENDING MOMENT (FT-LBS)	90° A	90° B	45° A	45° B	22½° A	22½° B
4	1100	2.00	1.00	1.75	1.00	1.00	1.00
6	2500	2.75	1.50	2.00	2.00	1.50	1.00
8	4500	3.50	2.00	2.50	2.00	1.75	1.50
10	6800	4.00	2.50	3.00	2.50	2.00	1.75
12	9500	4.50	3.00	3.50	2.50	2.50	1.75
16	15000	5.50	3.50	4.00	3.00	2.50	2.00
20	22000	6.50	4.00	4.50	3.50	3.00	2.50
24	30000	7.50	4.50	5.00	3.50	3.50	2.50
30	45000	8.50	5.00	5.50	4.00	3.50	2.50
36	60000	9.50	5.50	6.00	4.50	3.50	2.50
42	80000	10.50	6.00	6.50	4.50	3.50	2.50
48	100000	11.50	6.50	7.00	4.50	3.50	2.50
54	125000	12.50	7.00	7.50	4.50	3.50	2.50
60	150000	13.50	7.50	8.00	5.00	3.50	2.50

NOTES:
1. ALL DIMENSIONS ARE IN FEET.
2. BENDING MOMENT ARE BASED ON 150 PSI WORKING PRESSURE AND 150 PSI TEST PRESSURE.
3. BENDING MOMENT OF THRUST BLOCKS SHALL BE EQUAL TO OR GREATER THAN THE VALUES IN THE TABLE.
4. ALL THRUST BLOCKS SHALL HAVE A MINIMUM OF 2000 PSI BASE BEARING WALL PRESSURE. "BEARING WALL" IS DEFINED AS:
5. CONCRETE WALL NO MINIMUM WIDTH PER.
6. RESTRAINING BLOCK MUST BE BASED ON CLASS OF THRUST BLOCKS, VALVES TO CLOSE AGAINST THE DIRECTION OF BENDING PRIOR TO PLACEMEN

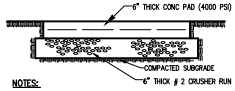


NOTE:
CONCRETE SIDEWALKS THROUGH DRIVEWAYS SHALL BE INCREASED TO A 8" THICKNESS AND SHALL INCLUDE 6"x6" WWC MESH (10 GAUGE) FOR REINFORCEMENT.

SIDEWALK DETAIL
N.T.S.

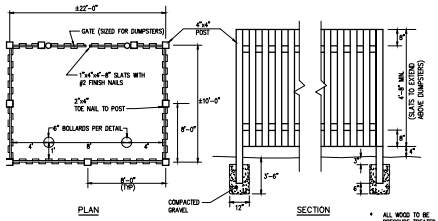


LIGHT DUTY PAVEMENT SECTION
N.T.S.

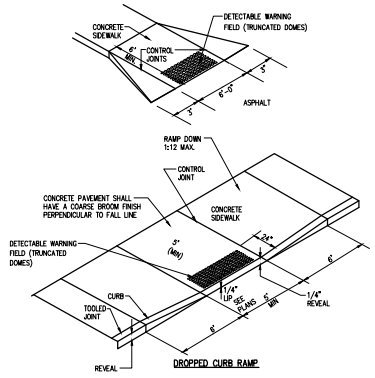


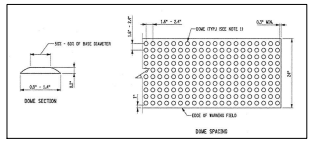
NOTES:
1. REINFORCEMENT TO BE WWM 6x6 6/6 FOR THE DUMPSTER AND 4x4 4/4 FOR THE BUS STOP
2. DUMMY JOINTS MINIMUM 1" DEEP TO BE MADE EVERY 10 FEET.
3. ALL EXPOSED CONCRETE SURFACE SHALL BE BROOM FINISHED.
4. ALL EXPOSED CONCRETE TO RECEIVE TWO COATS OF A COMBINATION CURING COMPOUND-SEALER SUCH AS "ACCUSEAL" OR "POLYCLEAR" OR APPROVED EQUAL.

CONCRETE DUMPSTER PAD DETAIL
NTS



WOOD DUMPSTER ENCLOSURE DETAIL
N.T.S.





NOTE:
1. THE DETAILS PROVIDED ARE NOT DRAWN TO SCALE. THE QUANTITY OF DOMES DEPICTED ON THE DETECTABLE WARNING UNITY (THE DOMES AND THE ENTIRE 24" LEVEL SURFACE) IS FOR ILLUSTRATION ONLY.

DETECTABLE WARNING UNIT DIMENSIONS:

2. THE SIZE OF THE DETECTABLE WARNING FIELD SHALL BE 24" IN THE DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE, EXCLUSIVE SIDE FLARES.

DOME ALIGNMENT:

3. THE ROWS OF DOMES SHALL BE ALIGNED TO BE PERPENDICULAR OR RADIAL TO THE GRADE BREAK BETWEEN THE RAMP LANDING OR CURB RAMP AND STREET.

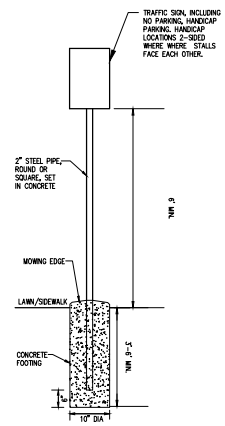
COLOR REQUIREMENTS:

4. THE DETECTABLE WARNING FIELD SHALL BE THE COLOR SPECIFIED IN THE CONTRACT DOCUMENTS OR MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

DETECTABLE WARNING LOCATIONS:

5. DETECTABLE WARNINGS SHALL BE LOCATED SO THAT THE EDGE OR CORNER OF THE WARNING FIELD NEAREST TO THE ROADWAY IS 5" TO 9" FROM THE FRONT OF THE CURB OR THE ROADWAY EDGE (12" WHERE TRAVERSABLE CURB IS USED).
6. THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 6'-0" MIN. AND 15'-0" MAX FROM THE CENTERLINE OF THE NEAREST RAIL.

DETECTABLE WARNING FIELD DETAIL
N.T.S.

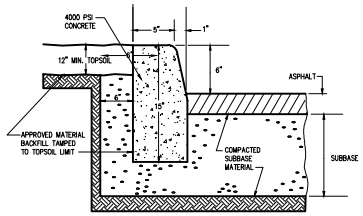


TRAFFIC SIGN MOUNTING DETAIL
N.T.S.

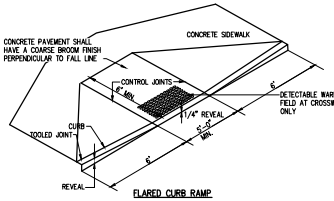
NOTES
1. SIGN TO BE MOUNTED TO A 2" DIA. STEEL PIPE SET IN 3'6" DEEP BY 10" DIA. CONCRETE 3000 PSI. BASE, SET BELOW GRADE.
2. SIGN TO BE MOUNTED 6.0' FROM FINISHED GRADE TO BOTTOM OF SIGN.

ACCESSIBLE PARKING SIGN DETAIL
N.T.S.

ACCESSIBLE PARKING SYMBOL DETAIL
N.T.S.

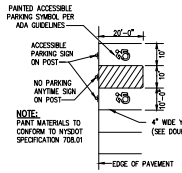


CONCRETE CURB SECTION
N.T.S.



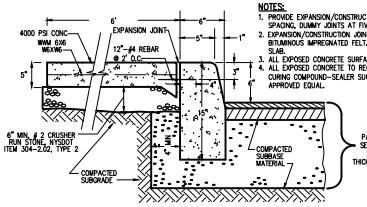
NOTES:
1. RAMPS SHALL BE BUILT AT A UNIFORM SLOPE NOT TO EXCEED 1:12.
2. THE SURFACE OF ALL SIDEWALK RAMPS IS TO BE STABLE, FIRM, AND SLIP-RESISTANT. (I.E. COARSE BROOM FINISH PERPENDICULAR TO THE RAMP SLOPE IS ACCEPTABLE).
3. DETECTABLE WARNING FIELDS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS PROVIDED ON NYSDOT STANDARD SHEET 608-5.

ACCESSIBLE RAMP WITH DETECTABLE WARNING FIELD DETAIL
N.T.S.



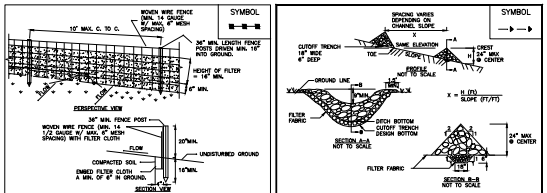
NOTE:
PAINT MATERIALS TO CONFORM TO NYSDOT SPECIFICATION 708.01

PARKING STRIPING DETAIL
N.T.S.



NOTES:
1. PROVIDE EXPANSION/CONSTRUCTION JOINTS AT TWENTY FOOT O.C. SPACING, DUMMY JOINTS AT FIVE FOOT O.C. SPACING.
2. EXPANSION/CONSTRUCTION JOINT MATERIAL TO BE 3/4" PREMOLDED BITUMINOUS IMPREGNATED FELT, FULL WIDTH AND DEPTH OF CONCRETE SLAB.
3. ALL EXPOSED CONCRETE SURFACE TO BE BROOM FINISHED.
4. ALL EXPOSED CONCRETE TO RECEIVE TWO COATS OF A COMBINATION CURING COMPOUND-SEALER SUCH AS "ACCUSEAL" OR "POLYCLEAR" OR APPROVED EQUAL.

6' CURB & SIDEWALK DETAIL
N.T.S.



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 WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 1000, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PRESTABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS.
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

SILT FENCE

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 ASSURE 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.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS.
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
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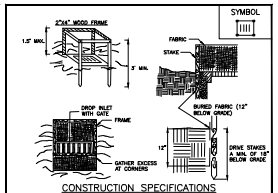
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

STONE CHECK DAM

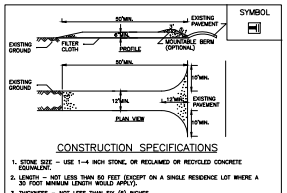


CONSTRUCTION SPECIFICATIONS
1. FABRIC SHALL HAVE AN EDGE OF AN 8L BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x4" WOOD OR EQUIVALENT. STAKES WILL BE 3' MIN. LENGTH OR 12" MIN.
4. DRIVE STAKES 12" MIN. INTO THE GROUND. STAKES MUST BE SPACED WITH THE USE OF BAKE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS.
NEW YORK STATE DEPARTMENT OF TRANSPORTATION,
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,
NEW YORK STATE SOIL & WATER CONSERVATION COMMITTEE

FABRIC DROP INLET PROTECTION



CONSTRUCTION SPECIFICATIONS
1. STONE SIZE – USE 1-4 INCH STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CON-STRUCTION ACCESS SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED 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.

ADAPTED FROM DETAILS PROVIDED BY: USDA – NRCS.
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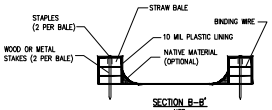
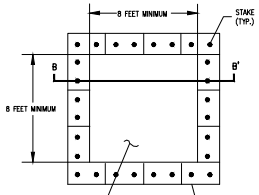
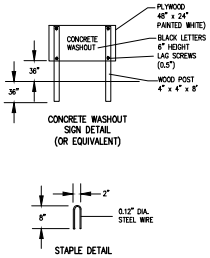
STABILIZED CONSTRUCTION ACCESS





PLAN
NTS
TYPE "ABOVE GRADE" WITH STRAW BALES



NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD. LOCATE THE FACILITY A MINIMUM OF 100 FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS.
2. THE MINIMUM SIZE SHALL BE 8 FEET BY 8 FEET AT THE BOTTOM AND 2 FEET DEEP. IF EXCAVATED, THE SIDE SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL.
3. WASHOUT STATION SHOULD BE CLEANED WHEN CONCRETE ACCUMULATES TO 75% OF THE STORAGE VOLUME. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASHOUT DETAIL
NTS

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Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

1	REVISED PER PRC COMMENTS	6/17/21	AND

REVISIONS | DATE | BY

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRFIELD, NEW JERSEY 07004
WWW.BMEPC.COM
PHONE 973-575-7540
FAX 973-575-7539

STATE OF NEW YORK · GEORGE E. SEELIG · 69527 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CHANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APOGEE DEVELOPMENT LTD.
PO BOX 810
CHANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL DETAIL SHEET

PROJECT MANAGER: PO VARS
PROJECT ENGINEER: JO ORESKOS
DRAWN BY: AN D'ANGELO
SCALE: N/A
DATE ISSUED: JUNE 9, 2021
PROJECT NO. 2759
DRAWING NO. 14

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER	
ADS SALES REP	
PROJECT NO.	

ADS
Advanced Drainage Systems, Inc.

SiteASSIST™ FOR SUBSURFACE PRETREATMENT, REDIRECTION AND INSTALLATION APP

ROCHESTER ROAD

CANANDAIGUA, NY

MC-3500 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH MC-3500.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM HIGH IMPACT MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-14a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" UNDER SLOW SITE DEVELOPMENT.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD INTERFERE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LONG-TERM DEFLECTION BELOW THE AASHTO LRFD SPECIFICATIONS, SECTION 12.12, ARE NOT MET FOR THE LONG-TERM DEAD LOADS AND SHORT-TERM LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALL OVER LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM D2990 "STANDARD PRACTICE FOR STRUCTURAL, PLASTIC PIPE, TUBE AND PRESSURE PIPE FITTINGS". CORRUGATED WALL STORMWATER COLLECTION CHAMBERS SHALL ENDURE A SECURE JOINT DURING INSTALLATION AND BACKFILL. THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.
7. TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.
8. THE CHAMBERS SHALL BE ARCH-SHAPED, HAVE CORRUGATED EXTERNAL ACTIVE ANCHORING RIBS DESIGNED TO ENGAGE THE SURROUNDING BACKFILL MATERIAL AND PROVIDE ADDITIONAL VERTICAL LOAD CAPACITY. THE CHAMBER SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE RESIN. THE CHAMBER SHALL BE RECYCLE FROM REFRACTORY GOLD OR YELLOW COLORS.
9. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED, UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERY OF THE CHAMBERS TO THE PROJECT SITE. THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.275 FOR LIVE LOAD. THE MINIMUM REQUIRED BY ASTM F2418 AND BY SECTIONS 1.6 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
10. THE CHAMBER MANUFACTURER SHALL OFFER TECHNICAL ASSISTANCE TO THE SITE DESIGN ENGINEER. THE CHAMBER SHALL BE LISTED FOR PERMANENT DEAD LOAD DESIGN SUPPORT THAT SHALL BE THE MAXIMUM MODULUS USED FOR DESIGN.
11. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 INSTALLATION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH THE DESIGN EXCAVATOR, BUT RATHER OVER THE CHAMBERS. THE CONTRACTOR MUST REMOVE ALL EQUIPMENT OVER THE CHAMBERS BEFORE:
   - STORMWATER BEGINS TO FILL THE CHAMBER BED,
   - BACKFILL AS PRIMARY BACKFILL MATERIAL IS PLACED AND COMPACTED ON THE FOUNDATION STONE OR SUBGRADE,
   - BACKFILL FROM OUTSIDE THE EXCAVATION IMPACTS LINE OF SITE WORK AND/OR EXCAVATION.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MINIMUM REQUIRED 9" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBERS TO ANCHOR THE CHAMBERS IN PLACE AND PREVENT ROCK WEDGING DURING COMPACTION.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION TO FILTER ALL SITE TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

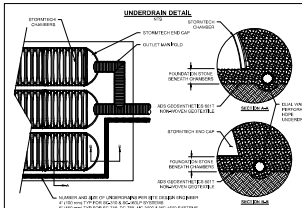
NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 INSTALLATION GUIDE".
2. THE USE OF EQUIPMENT OVER MODERATE CHAMBERS IS LIMITED:
   - NO RUBBER TIRED LOADERS, SKIDDERS, OR SIMILAR EQUIPMENT ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED PER ACCORDANCE WITH THE "STORMTECH MC-3500 INSTALLATION GUIDE".
   - TRACK TYPE EQUIPMENT IS PROVEN TO BE THE SMALLEST PRACTICAL SIZE FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500 INSTALLATION GUIDE".
3. FULL 36" (900 mm) OF STONE OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

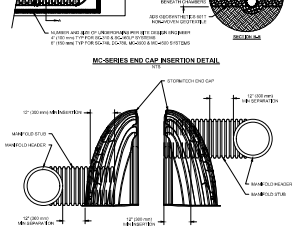
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE INSTALLATION METHOD. ANY CHAMBERS DAMAGED BY USE OF THE "DUMP AND PUSH" METHOD WILL NOT BE COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1.800.821.6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR BEFORE DRAFTING CONSTRUCTION BID PAPERS.

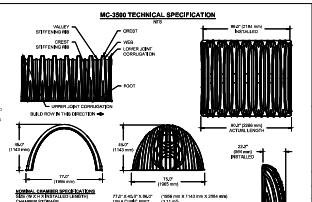
UNDERDRAIN DETAIL



MC-SERIES END CAP INSERTION DETAIL



MC-3500 TECHNICAL SPECIFICATION



NOMINAL CHAMBER SPECIFICATIONS
SIZE (W x H x L) INSTALLED LENGTH 90.0" (2286 mm)
CHAMBER STORAGE 109.0 CUBIC FEET (3.09 m³)
MINIMUM INSTALLED STORAGE* 134.9 ft³ (3.82 m³)
WEIGHT 75.0" (1905 mm) INSTALLED LENGTH 134 lbs. (60.8 kg)
NOMINAL END CAP SPECIFICATIONS
SIZE (W x H x L) INSTALLED LENGTH 75.0" (1905 mm) ACTUAL LENGTH 45.0" (1143 mm)
STORAGE 45.0 ft³ (1.27 m³)
WEIGHT 75.0" (1905 mm) INSTALLED LENGTH 90 lbs. (40.8 kg)
*MINIMUM 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 12" (305 mm) STONE PERIMETER

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

PART #	STUB	B	C
MC3500IPE06B	6" (150 mm)	30.0" (762 mm)	0.00" (0 mm)
MC3500IPE06T		30.0" (762 mm)	0.00" (0 mm)
MC3500IPE08B	8" (200 mm)	30.0" (762 mm)	0.00" (0 mm)
MC3500IPE08T		30.0" (762 mm)	—
MC3500IPE10B	10" (250 mm)	30.0" (762 mm)	0.00" (0 mm)
MC3500IPE10T		30.0" (762 mm)	—
MC3500IPE12B	12" (300 mm)	30.0" (762 mm)	1.00" (25 mm)
MC3500IPE12T		30.0" (762 mm)	—
MC3500IPE15B	15" (375 mm)	30.0" (762 mm)	1.00" (25 mm)
MC3500IPE15T		30.0" (762 mm)	—
MC3500IPE18B	18" (450 mm)	30.0" (762 mm)	1.27" (32 mm)
MC3500IPE18T			—
MC3500IPE24B	24" (600 mm)	*NAW (*NW mm)	1.27" (32 mm)
MC3500IPE24T		—	—
MC3500IPE30B	30" (750 mm)	—	2.00" (51 mm)
MC3500IPE30T		—	2.00" (51 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

ROCHESTER ROAD
CANANDAIGUA, NY
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PROJECT
REVISIONS
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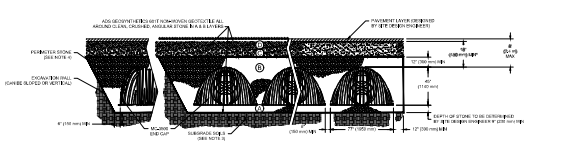
SHEET 5 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

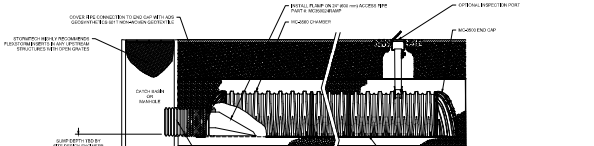
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER D STARTS FROM THE TOP OF THE E LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR PAVING MATERIAL. RIGID PAVEMENT SUBBASE MAY BE PART OF THE D LAYER.	ANY SOIL/ROCK MATERIALS, MOTTLED SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PROPERLY PREPARED SUBGRADE MATERIAL AND PAVED INSTALLATION MAY HIGHER STRUCTURAL MATERIAL AND PREPARATION REQUIREMENTS.
C	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE SUBGRADE/BASE OF LAYER B TO THE D LAYER ABOVE.	GRANULAR WELL-GRADED SUBGRADE/BASE MATERIALS. NON-FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 (A1, A2A, A3) OR AASHTO M43 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTING AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE SUBGRADE/BASE OF LAYER A TO THE C LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE ROOF BOTTOM OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.**

PLEASE NOTE:
1. FILL LAYERS AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR FOR CHAMBER A. SPECIFICATION FOR STONE SHOULD STATE, "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIAL WHEN PLACED AND COMPACTED IN 12" (300 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. MINIMUM REQUIRED FILL DEPTHS MAY BE COMPROMISED BY COMPACTION FORCE TRANSMITTED TO PIPE. IF STANDARD EQUIPMENT COMPACTION EQUIPMENT, FOR SPECIFIC FILL DEPTHS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. SHOULD LAYER C BE PLACED AND COMPACTED TO THE REQUIRED DENSITY, MOST PAVEMENT SUBBASE MATERIALS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER D. CONTACT STORMTECH FOR DETAILS.



NOTES:

1. STORMTECH SHALL MEET THE REQUIREMENTS OF ASTM F2418-14a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" UNDER CLEAR SITE DEVELOPMENT CONDITIONS.
2. MINIMUM CHAMBER SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2418 "STANDARD PRACTICE FOR CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE VERTICAL ORIENTATION OF THE CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 1.
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 12.12 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 580 LBS/IN/IN, AND ALL TO REJECT CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFRACTORY GOLD OR YELLOW COLORS.



MC-3500 ISOLATOR ROW PLUS DETAIL

NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
A. INSPECTION PORTS (IF PRESENT)
1.1) REMOVE ACCESS COVER(S) IF PRESENT
1.2) REMOVE WATER FROM CHAMBERS IF NECESSARY TO BE INSTALLED
1.3) USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
1.4) LOWER A CAMERA INTO THE ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
1.5) IF SEDIMENT IS AT, OR ABOVE, 7" (178 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
B. ALL ACCESS ROOMS (IF PRESENT)
1.6) REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
1.7) USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
1.8) IF FLOW IS PRESENT, SHINE LIGHT THROUGH THE PIPE TO SEE IF IT IS FULLY OBSTRUCTED
1.9) FOLLOW DOWN RESULTS PROCEDURE FOR CHAMBER SPACE (STEPS 1.1 THROUGH 1.5)
1.10) IF SEDIMENT IS AT, OR ABOVE, 7" (178 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

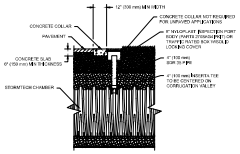
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
A. A RIGID COLLAPSE CLEANING NOZZLE WITH REAR FACING SPRINKLER OF 60" (1.5 m) OR SMALLER IS PREFERRED
B. APPLY WATER FOR A MAXIMUM OF JETVAC LITTLE BACKFLOW PREVENTER (LBFP)
C. KNOCKING STRUCTURE PUMP AS REQUIRED

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

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

NOTES

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



NOTE:
INSPECTION PORTS MAY BE CONNECTED THROUGH ANY CHAMBER CORRUGATION VALLEY.

4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)

NTS

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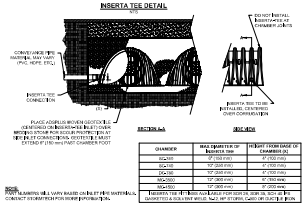
SHEET 4 OF 6

INSERTA TEE DETAIL



CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
DC-580	6" (150 mm)	4" (102 mm)
DC-740	10" (250 mm)	4" (102 mm)
DC-780	12" (300 mm)	4" (102 mm)
DC-1000	12" (300 mm)	4" (102 mm)
MC-4500	12" (300 mm)	9" (229 mm)
MC-3500	12" (300 mm)	9" (229 mm)

INSERTA TEE FITTINGS ARE AVAILABLE FOR DC-580, DC-740, DC-780, DC-1000, MC-4500 & MC-3500 SYSTEMS. CONTACT STORMTECH FOR DETAILS.

NOTE:
PIPE PLACEMENT WILL VARY BASED ON SITE FITTING MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

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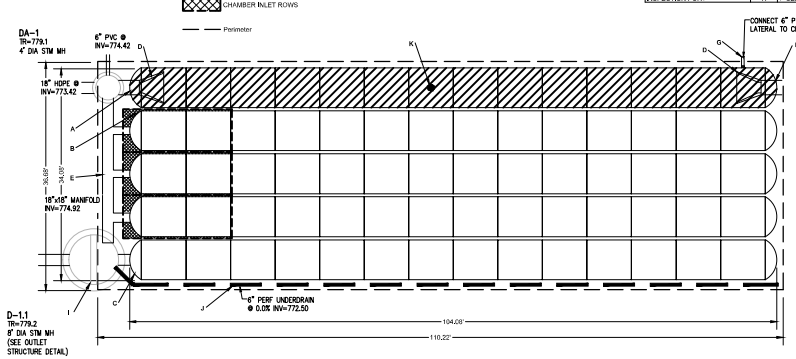
SHEET 6 OF 6

PART TYPE	ITEM CODE LAYOUT	DESCRIPTION
PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS
PREFABRICATED END CAP	B	12" TOP CORED END CAP
PREFABRICATED END CAP	C	18" BOTTOM CORED END CAP, PART#: MC3500IEPP18BC / TYP OF ALL 18" BOTTOM CONNECTIONS
PLAMP	D	INSTALL PLAMP ON 24" ACCESS PIPE / PART#: MC3500024RAMP
MANIFOLD	E	18" x 12" ADS N-12 (18" PIPE) 18" x 12" ADS N-12 (12" PIPE)
INSERTA TEE	G	4" DIAMETER
CONCRETE STRUCTURE WINGER	I	OUTLET STRUCTURE (SEE DETAIL)
UNDERDRAIN	J	8" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN
INSPECTION PORT	K	4" SEE DETAIL



PROPOSED LAYOUT	
70	STORMTECH MC-3500 CHAMBERS
10	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (in)
9	STONE BELOW (in)
40	STONE VOID
13602	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) COVER STONE INCLUDED) (BASE STONE INCLUDED)
4543	SYSTEM AREA (SF)
293.5	SYSTEM PERIMETER (ft)

ELEVATIONS	
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	778.00
TOP OF STONE:	775.00
TOP OF MC-3500 CHAMBER:	777.00
4" INSERTA TEE INVERT:	773.42
24" ISOLATOR ROW PLUS INVERT:	773.42
18" x 18" TOP MANIFOLD INVERT:	774.92
18" BOTTOM CONNECTION INVERT:	773.42
BOTTOM OF MC-3500 CHAMBER:	773.50
UNDERDRAIN INVERT:	772.50
BOTTOM OF STONE:	772.50

Drawing Alteration
The following is an excerpt from the New York State Education Law Article 145 Section 7209 and applies to this drawing:
"It is a violation of this law for any person, unless he is acting under the direction of a licensed professional engineer or land surveyor, to alter any item in any way. If an item bearing the seal of a professional engineer is altered, the altering engineer or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration, and a specific description of the alteration."

	REVISIONS	DATE	BY
1	REVISED PER PRC COMMENTS	6/17/21	AND
2			
3			
4			
5			
6			
7			

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS
10 LIFT BRIDGE LANE EAST
FAIRPORT, NEW YORK 14450
WWW.BMEPC.COM
PHONE 585-377-7360
FAX 585-377-7369

STATE OF NEW YORK · GEORGE E. SAYER · 095274 · LICENSED PROFESSIONAL ENGINEER

PROJECT: 2536 ROCHESTER RD
PRELIMINARY/FINAL
LOCATION: TOWN OF CANANDAIGUA, ONTARIO COUNTY, NEW YORK STATE
CLIENT: APOSE DEVELOPMENT LTD.
PO BOX 810
CANANDAIGUA, NEW YORK 14424
DRAWING TITLE: FINAL DETAIL SHEET

PROJECT MANAGER: PC VARS
PROJECT ENGINEER: JC ORESKOS
DRAWN BY: AN D'ANGELO
SCALE: N/A
DATE ISSUED: JUNE 9, 2021
PROJECT NO. 2759
DRAWING NO. 15

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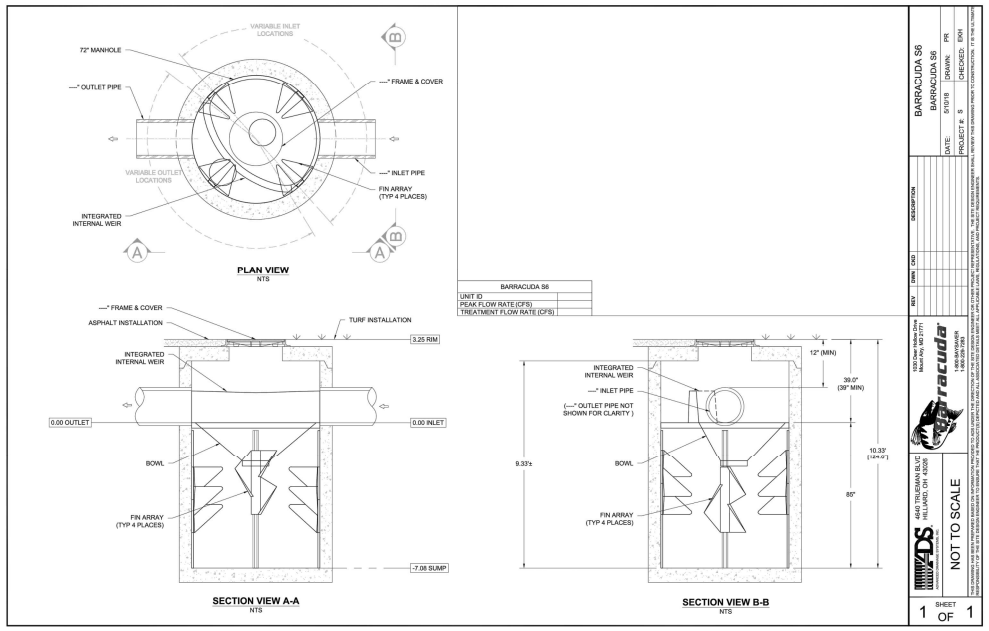

CDS UNIT
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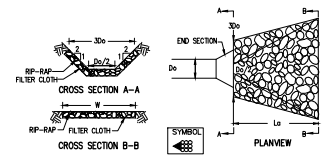
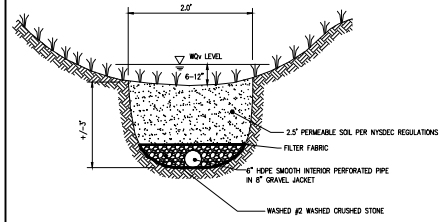


RIP-RAP OUTLET DIMENSIONS

DESIGNATION	DIA. OF PIPE Do	3Do	Lo	W
D-3A	12"	3.0'	6.0'	7.0'
D-3B	12"	3.0'	8.0'	9.0'
D-4	24"	6.0'	11.0'	13.0'

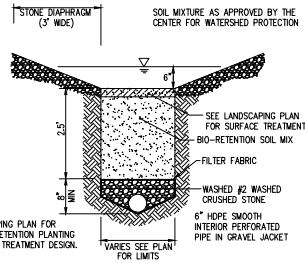
RIP-RAP OUTLET PROTECTION DETAIL TYPICAL
NTS



DRY SWALE
N.T.S.

NOTE:
BIO-RETENTION SOIL MIX:
80%-85% SAND
8%-12% FINES
3%-5% ORGANIC MATTER

SOIL MIXTURE AS APPROVED BY THE CENTER FOR WATERSHED PROTECTION



NOTE: SEE LANDSCAPING PLAN FOR DETAILED BIORETENTION PLANTING AND SURFACE TREATMENT DESIGN.

GREEN INFRASTRUCTURE BIO-RETENTION AREA
N.T.S.

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7			
6			
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2	REVISED PER PRC COMMENTS	6/17/21	AND
1	REVISIONS	DATE	BY

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PROJECT MANAGER	
PD VARS	
PROJECT ENGINEER	
JS CRETEKOS	
DRAWN BY	
AN D'ANGELO	
SCALE	DATE ISSUED
N/A	JUNE 9, 2021
PROJECT NO.	
2759	
DRAWING NO.	
16	

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