NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY FRANDINA ENGINEERING & SURVEYING DATED FEBRUARY 7, 2024 AND IDENTIFIED AS JOB NO. 4954, INCLUDED WITH THIS SET OF SITE PLANS.
2. ALL CONSTRUCTION SHALL CONFORM TO TOWN OF AMHERST STANDARDS AND NEW YORK STATE CODE REQUIREMENTS, AS WELL AS THE LATEST A.I.S.C., A.C.I., AND A.S.T.M. STANDARDS. WHERE CODES OVERLAP, THE CONTRACTOR SHALL COMPLY WITH THE MORE STRINGENT CODE.
3. WHERE A SPECIFIC MANUFACTURER'S PRODUCT IS CALLED OUT ON THIS SHEET OR ANY OTHER PLAN IN THIS SET OF DRAWINGS, THE CONTRACTOR MUST COMPLY WITH THE MANUFACTURER'S LATEST PRINTED INSTRUCTIONS AND RECOMMENDATIONS FOR INSTALLATION.
4. ANY TEMPORARY TRAFFIC CONTROL AND WARNING SIGNS SHALL CONFORM TO N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
5. THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO ADJACENT EXISTING RESIDENCES AND BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.
6. ANY CAST–IN–PLACE CONCRETE SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATIONS (SECTION 501). USE CLASS "C" FOR APRONS OR STRUCTURAL SLABS. USE CLASS "D" FOR SIDEWALKS AND ALL OTHER GENERAL PURPOSE CONCRETE PAVEMENT ON SITE. CEMENT USED TO PRODUCE CONCRETE SHALL CONFORM WITH BOTH ACI 318 AND ASTM C1157. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4–6%.
7. ALL NEW CONCRETE CURBS, SIDEWALKS, APRONS, AND PADS SHALL BE CURED USING A CURING COMPOUND CONFORMING TO A.S.T.M. C309.
8. EXISTING ASPHALT PAVEMENT TO REMAIN SHALL BE RESEALED WITH AN ASPHALT–BASED EMULSION NOT CONTAINING COAL–TAR (RT–12), BEFORE RE–STRIPING.
9. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE TOWN OF AMHERST PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS. ANY AND ALL CHANGES MADE WITHOUT NOTIFICATION OR APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) SHALL BE CONSIDERED UNAUTHORIZED AND THE DESIGN ENGINEER (STUDIO T3) SHALL NOT BE LIABLE FOR ANY DAMAGES, DELAYS, ADDITIONAL COSTS INCURRED, OR ANY OTHER CONSEQUENCES ARISING FROM SUCH CHANGES.
10. THE DESIGN ENGINEER (STUDIO T3) SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN. AN UNDERGROUND UTILITY SURVEY MAY BE DONE PRIOR TO EXCAVATION AND CONSTRUCTION IN ORDER TO ELIMINATE DELAYS RESULTING FROM INTERFERENCE WITH UN–DOCUMENTED OR UN–LOCATED BURIED UTILITIES ENCOUNTERED
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND UNDERPINNING EXPOSED FOUNDATIONS ADJACENT TO EXCAVATIONS. THE STRUCTURAL ENGINEER SHALL BE CONTACTED FOR ASSOCIATED DETAILS.
12. ANY DAMAGED PROPERTY WITHIN THE PROJECT SITE OR ADJACENT PROJECT SITES SHALL BE RESTORED IN KIND.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT TOWN OF AMHERST BUILDING DEPARTMENT (716) 631–7080 FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.
14. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.

CODE & SITE DATA

TOTAL PARCEL = 3.69 ACRES
SITE DISTURBANCE AREA = 0.25 ACRES
ZONED: CF (COMMUNITY FACILITIES)

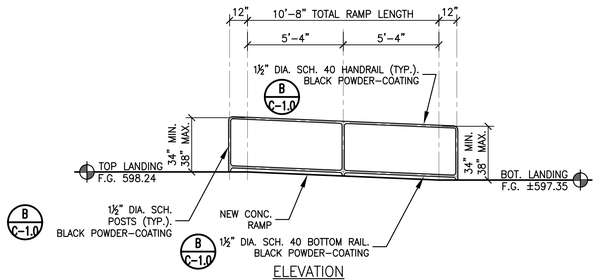
BUILDING SETBACK	REQUIRED	PROVIDED
FRONT	20'–0"	75'–1"
SIDE	30'–0"	48'–3"
REAR	30'–0"	62'–4"

PARKING	REQUIRED	PROVIDED
EXISTING	68 SPACES	82 SPACES
PROPOSED	68 SPACES	81 SPACES
HANDICAP	3 SPACES	4 SPACES

EXIST. BLDG. FOOTPRINT = ±20,377 SQ. FT. (GROSS)
NEW BLDG. FOOTPRINT = 4,267 SQ. FT. (GROSS)
TOTAL BLDG. FOOTPRINT = ±24,644 SQ. FT. (GROSS)

LEGEND

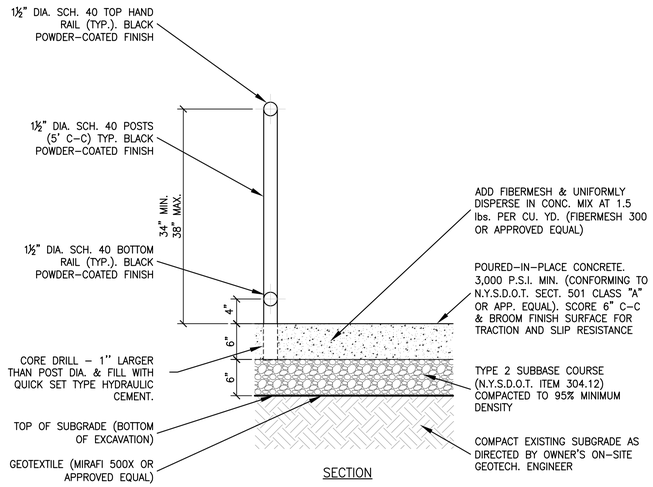
- EXISTING SIGN
- NEW SIGN
- EXISTING FENCE
- NEW FENCE
- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PARCEL PROPERTY/R.O.W. LINE
- ADJACENT PROPERTY/R.O.W. LINES
- EXISTING UTILITY POLE
- EXISTING FIRE HYDRANT
- EXISTING FLOOD/UP–LIGHT
- EXISTING LIGHT FIXTURE
- EXISTING PARKING SPACE COUNT
- EXISTING CONCRETE AREAS
- NEW CONCRETE AREAS
- NEW ASPHALT AREAS



ELEVATION

RAMP HAND RAIL DETAIL (A)

SCALE : 1/4" = 1'–0"
REFER TO CABO/ANSI A117.1 – LATEST EDITION



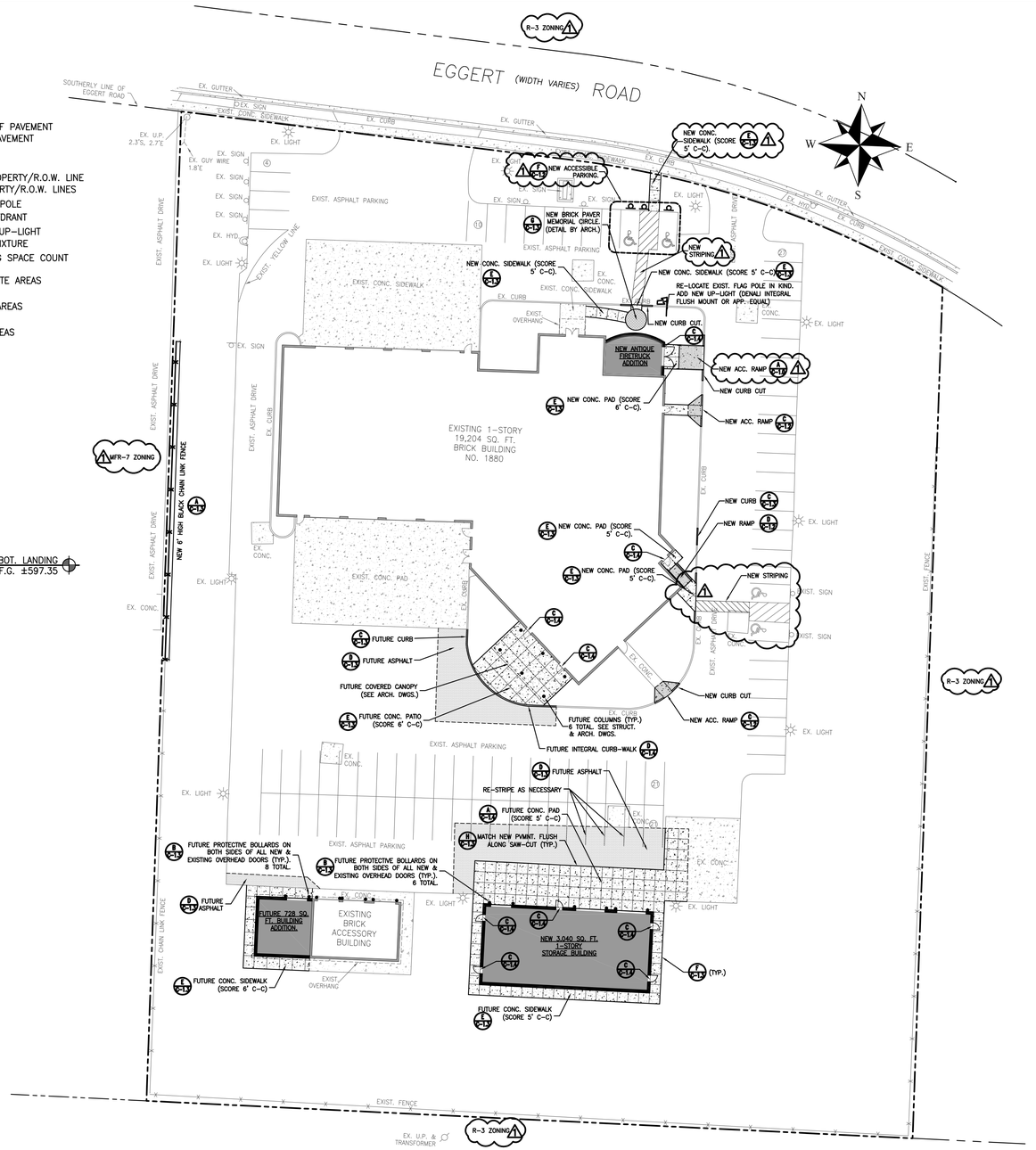
SECTION

ACCESSIBLE RAMP SECTION (B)

SCALE : 1" = 1'–0"

NOTES

1. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER BY SAW–CUTTING 1" MINIMUM DEPTH.
2. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS.
3. ALL SIDEWALK EDGES SHALL BE TOOLED AND SHALL HAVE A 1/4–INCH EDGE RADIUS.
4. INSTALL 1/2–INCH PRE–MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS AND AT INTERFACE BETWEEN SIDEWALK AND BUILDING WALLS.
5. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4%–6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED.
6. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.



SITE LAYOUT PLAN

SCALE : 1"= 30'–0"

0 30 60 120

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

1	REV. PER SITE PLAN REVIEW	5/28/25
2	ISSUED FOR SITE PLAN REV.	1/21/25
3	ISSUED FOR CLIENT REVIEW	1/3/25

SITE LAYOUT & PHASE PLAN

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: RMT
JOB # 23–194A

SHEET C–1.0

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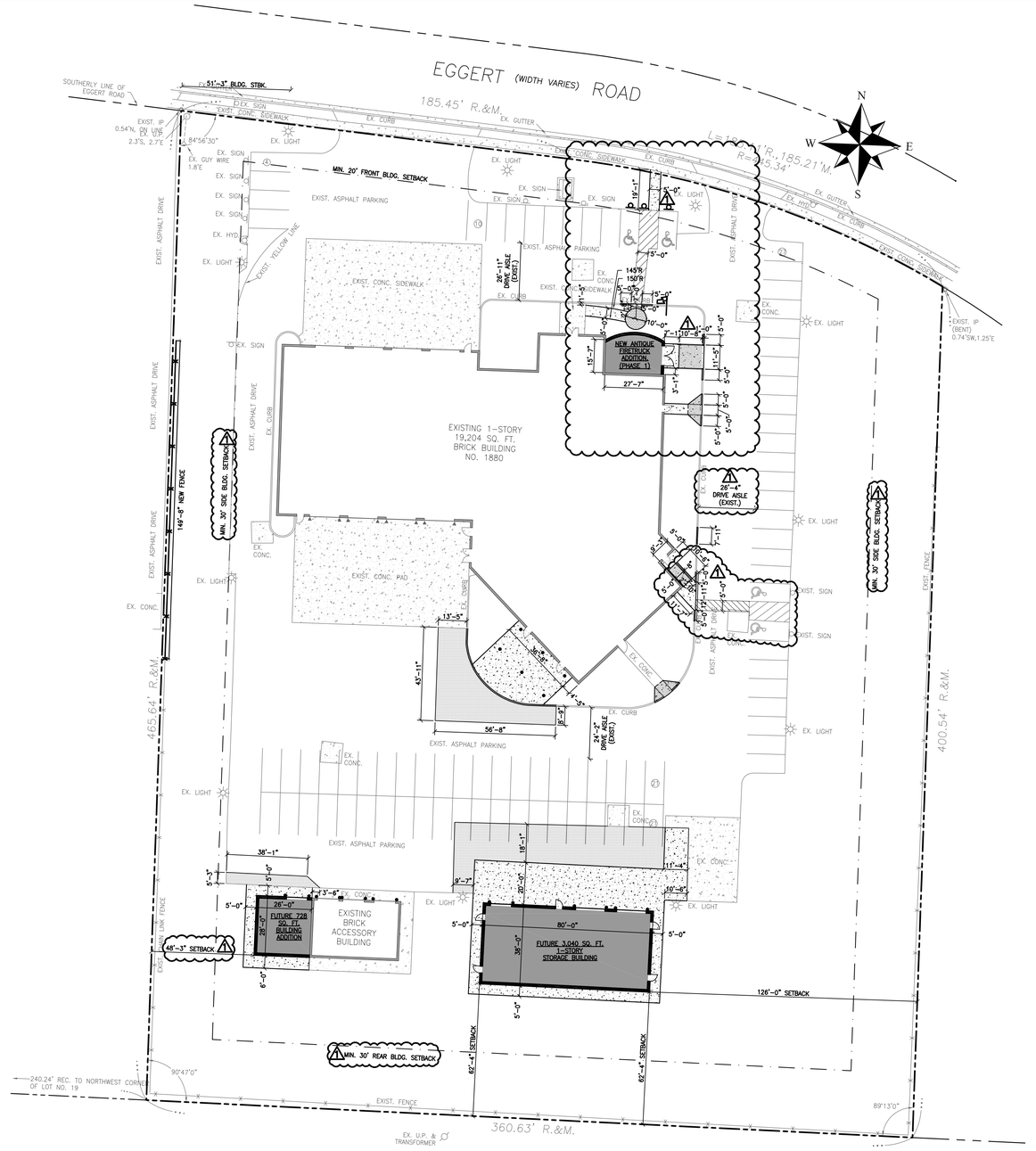
- EXISTING LIGHT FIXTURE
- EXISTING PARKING SPACE COUNT
- EXISTING CONCRETE AREAS
- NEW CONCRETE AREAS
- NEW ASPHALT AREAS



DIMENSIONAL SITE PLAN

SCALE : 1"= 30'-0"

0 30 60 120

N

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

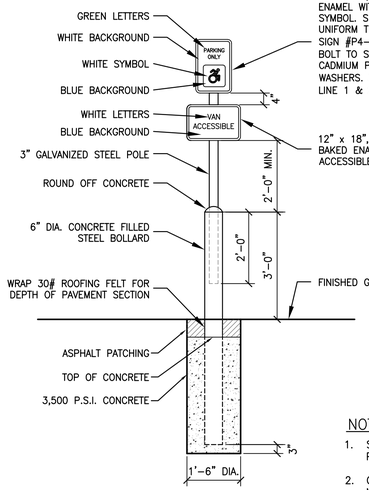
⚠	REV. PER SITE PLAN REVIEW	5/28/25
⚠	ISSUED FOR SITE PLAN REV.	1/21/25
⚠	ISSUED FOR CLIENT REVIEW	1/3/25

DIMENSIONAL SITE PLAN

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET C-1.1

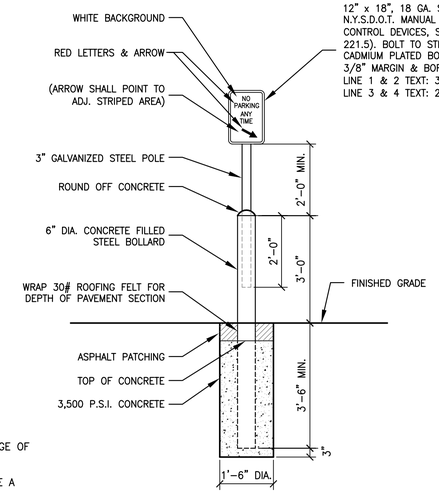


12" x 18", 18 GA. STEEL BAKED ENAMEL WITH N.Y.S. ACCESSIBILITY SYMBOL. SEE N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SIGN #P4-6C (SECT. 221.8). BOLT TO STEEL POLE WITH 3/8" CADMIUM PLATED BOLTS, NUTS, AND WASHERS. 3/8" MARGIN & BORDER. LINE 1 & 2 TEXT: 3"-C.

12" x 18", 18 GA. STEEL BAKED ENAMEL SIGN

EXPOSED STEEL SHALL BE FINISHED WITH ONE COAT OF RUST-INHIBITING PRIMER AND TWO COATS OF PAINT (COLOR BY OWNER)

ACCESSIBLE PARKING SECTION



12" x 18", 18 GA. STEEL BAKED ENAMEL. SEE N.Y.S.D.O.T. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SIGN #P1-1C (SECT. 221.5). BOLT TO STEEL POLE WITH 3/8" CADMIUM PLATED BOLTS, NUTS, AND WASHERS. 3/8" MARGIN & BORDER. LINE 1 & 2 TEXT: 3"-C. LINE 3 & 4 TEXT: 2"-C,

STRIPED AREA SECTION

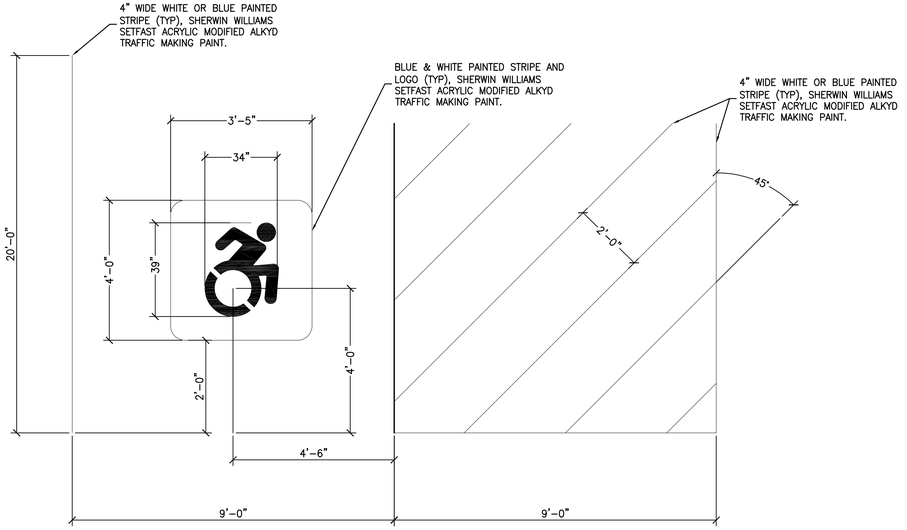
NOTES:

1. SIGNS SHALL BE PLACE 2' MIN. OFFSET FROM EDGE OF PAVEMENT.
2. CHARACTERS AND SIGN BACKGROUNDS SHALL HAVE A MATTE OR OTHER NON-GLARE FINISH.

ACCESSIBLE PARKING SIGNS — A

SCALE : 1/2" = 1'-0"

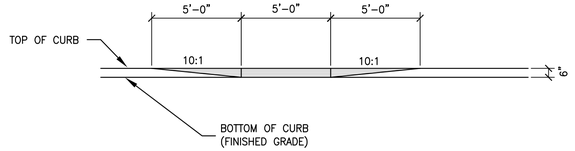
NOTE: REFER TO CABO/ANSI A117.1 – 1992 SEC. 4.28 FIG. B 4.28.8.1

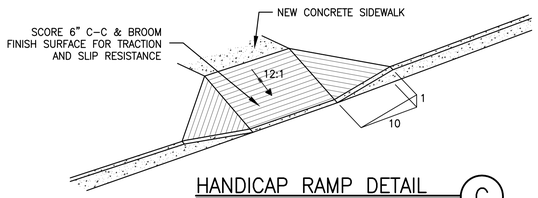


ACCESSIBLE PARKING SYMBOL — B

SCALE : 1/2" = 1'-0"

NOTE: REFER TO ICCI/ANSI A117.1

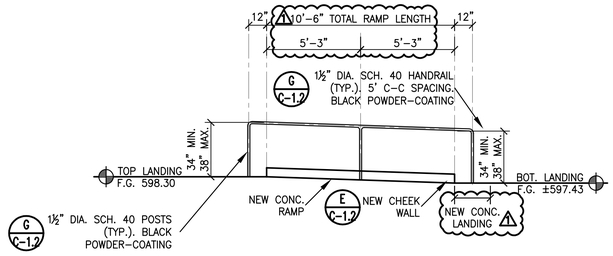




HANDICAP RAMP DETAIL — C

SCALE : 1/4" = 1'-0"

REFER TO CABO/ANSI A117.1 – 1992 SEC. 4.7

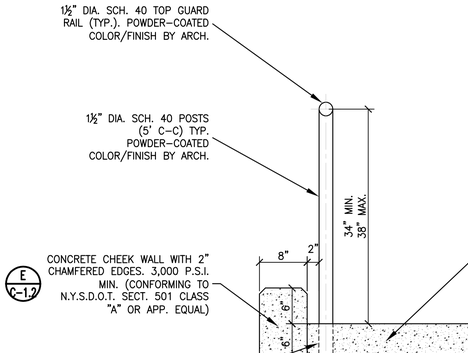


ELEVATION

RAMP HAND RAIL DETAIL — D

SCALE : 1/4" = 1'-0"

REFER TO CABO/ANSI A117.1 – LATEST EDITION



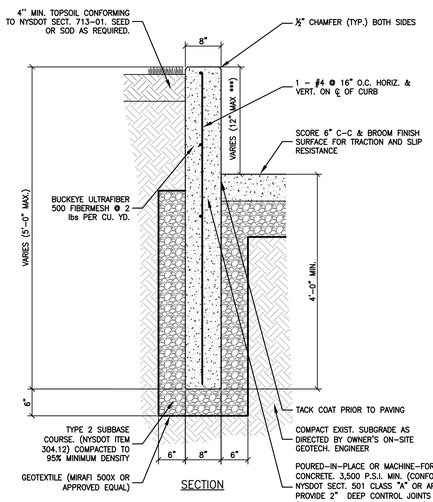
PARTIAL SECTION

RAMP HAND RAIL SECTION — G

SCALE : 1" = 1'-0"

NOTES

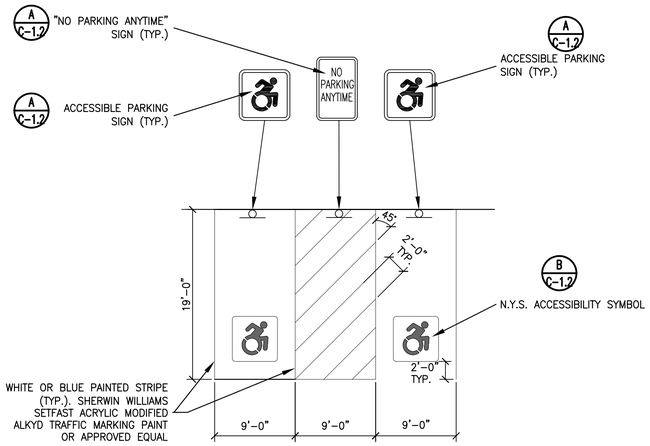
1. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER BY SAW-CUTTING 1" MINIMUM DEPTH.
2. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN WALLS, FOUNDATIONS, AND OTHER SLABS. INSTALL 1/2-INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.
3. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4%-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED.



SECTION

CHEEK WALL DETAIL — E

SCALE : 3/4" = 1'-0"



ACCESSIBLE PARKING STRIPING DETAIL — F

SCALE : 1/8" = 1'-0"

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EXTERIOR SITE IMPROVEMENTS
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STAMP/SEAL

A	REV. PER SITE PLAN REVIEW	5/28/25
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ACCESSIBILITY DETAILS

studio T3
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2495 Main Street, Suite 301
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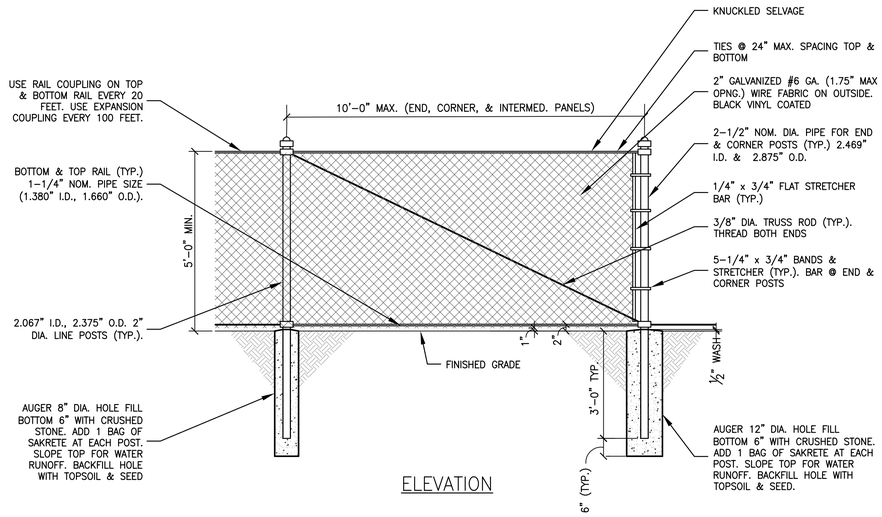
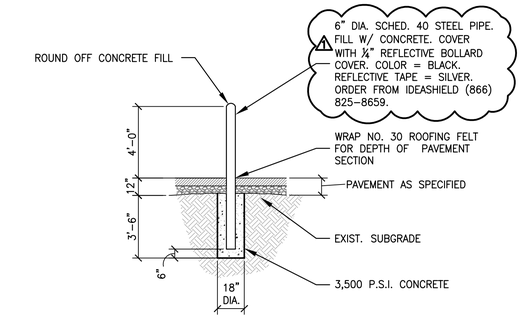
DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

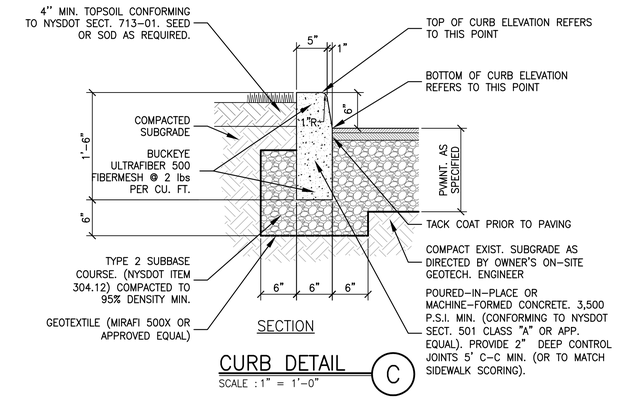
SHEET C-1.2



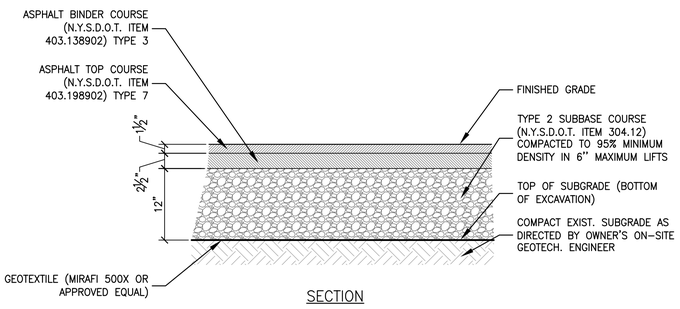
CHAIN LINK FENCE DETAIL (A)
SCALE : 1/2" = 1'-0"



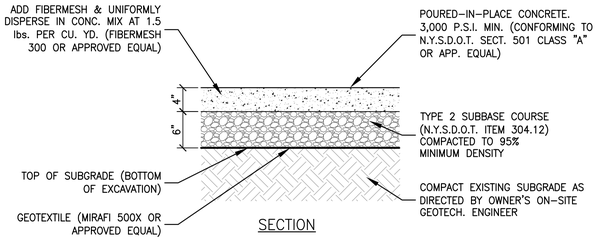
BOLLARD DETAIL (B)
SCALE :1/4" = 1'-0"



CURB DETAIL (C)
SCALE : 1" = 1'-0"



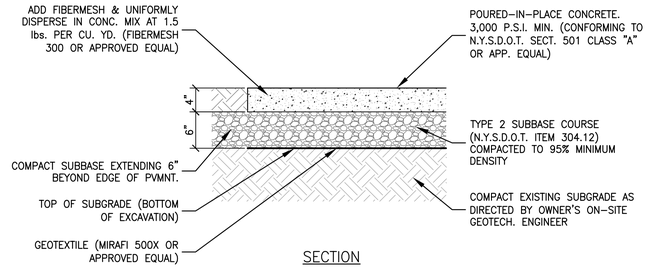
HEAVY-DUTY ASPHALT PAVEMENT DETAIL (D)
SCALE : 1" = 1'-0"



SIDEWALK / CONCRETE PAD DETAIL (E)
SCALE : 1" = 1'-0"

NOTES:

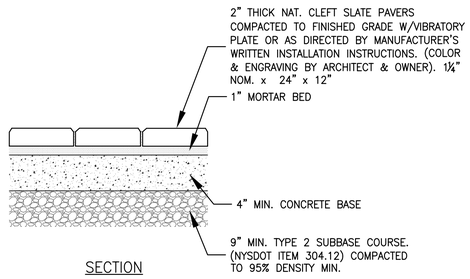
1. ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER (OR AS NOTED ON SHEET C-1.1) WITH SAW-CUT CONTROL JOINTS 1-½ INCHES DEEP. ALL SCORED JOINTS SHALL BE SAW-CUT WITHIN 24 HOURS OF POURING CONCRETE
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS. ALL SIDEWALK EDGES SHALL BE TOOLED WITH A ¼-INCH EDGE RADIUS WITHIN 24 HOURS OF POURING CONCRETE. INSTALL FELT BOARD EXPANSION JOINT. SCORE FELT AND REMOVE TO DEPTH OF ½" BELOW SLAB. PROVIDE SEAL WITH ½" INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.
4. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS BUILDING WALLS AT DOOR ENTRANCES ONLY TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS BUILDING WALLS PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.
5. IN DRIVEWAY AREAS CONCRETE THICKNESS SHALL BE INCREASED TO 6 INCHES MINIMUM. IN DRIVEWAY AREAS CONCRETE SUBBASE SHALL BE INCREASED TO 9 INCHES MINIMUM OR TO THE DEPTH OF THE ADJACENT ASPHALT SUBBASE.
6. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.



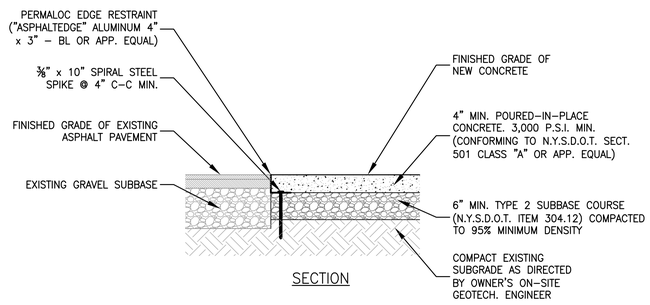
CONCRETE EDGE DETAIL (F)
SCALE : 1" = 1'-0"

NOTES:

1. ALL CONCRETE FOR SIDEWALKS SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 501. CONSTRUCTION SHALL CONFORM TO N.Y.S.D.O.T. STANDARD SPECIFICATION 608-3 WITH A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%.
2. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER (OR AS NOTED ON DRIVEWAY PLANS) AND SHALL BE SAW-CUT WITHIN 24 HOURS OF POURING CONCRETE
3. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS. ALL SIDEWALK EDGES SHALL BE TOOLED AND SHALL HAVE A ¼-INCH EDGE RADIUS SAW-CUT WITHIN 24 HOURS OF POURING CONCRETE. INSTALL FELT BOARD EXPANSION JOINT. SCORE FELT AND REMOVE TO DEPTH OF ½" BELOW SLAB. PROVIDE SEAL WITH ½" INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS.



STONE PAVER DETAIL (G)
SCALE : 1-1/2" = 1'-0"



ASPHALT / CONCRETE INTERFACE (H)
SCALE :3/4" = 1'-0"

NOTES:

1. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES.
2. CONNECT 8'-0" SECTIONS WITH 4" SLIDING CONNECTERS.
3. NOTCH BASE OF EDGE RESTRAINT ONLY AND FORM A CONTINUOUS CORNER.
4. ORDER FROM PERMALOC ALUMINUM EDGING, (800) 356-9660 OR WWW.PERMALOC.COM

THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE EXCAVATION & CONSTRUCTION TO ENSURE HE/SHE HAS THE FINAL SET OF DESIGN DOCUMENTS AS ISSUED FOR CONSTRUCTION. THIS PLAN IS CURRENT AS OF THE DATE IT WAS ISSUED. SUBSEQUENT UPDATES OF THIS PLAN BY THE DESIGN ENGINEER DOES NOT AFFORD ANY TRANSFEREES THE RIGHT TO RECEIVE SAID UPDATES, BUT PLACES THE RESPONSIBILITY TO THE TRANSFEREE TO OBTAIN UPDATED PLANS WHICH ARE ISSUED FOR CONSTRUCTION AS THESE MAY DIFFER FROM PREVIOUS PLANS ISSUED FOR PERMIT OR BID.

EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
EGGERT ROAD, AMHERST, NY 14226
1880

STAMP/SEAL

6	REV. PER SITE PLAN REVIEW	5/28/25
5	ISSUED FOR SITE PLAN REV.	1/21/25
4	ISSUED FOR CLIENT REVIEW	1/3/25

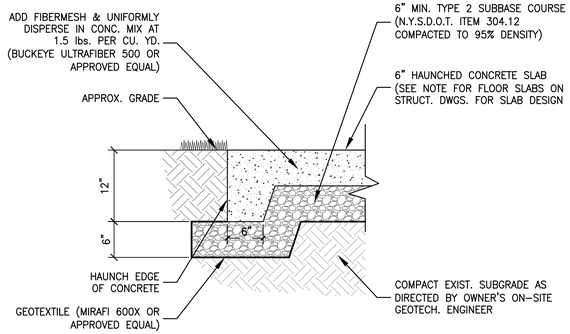
FOR OFFICIAL TOWN OF AMHERST USE

SITE DETAILS

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET C-1.3

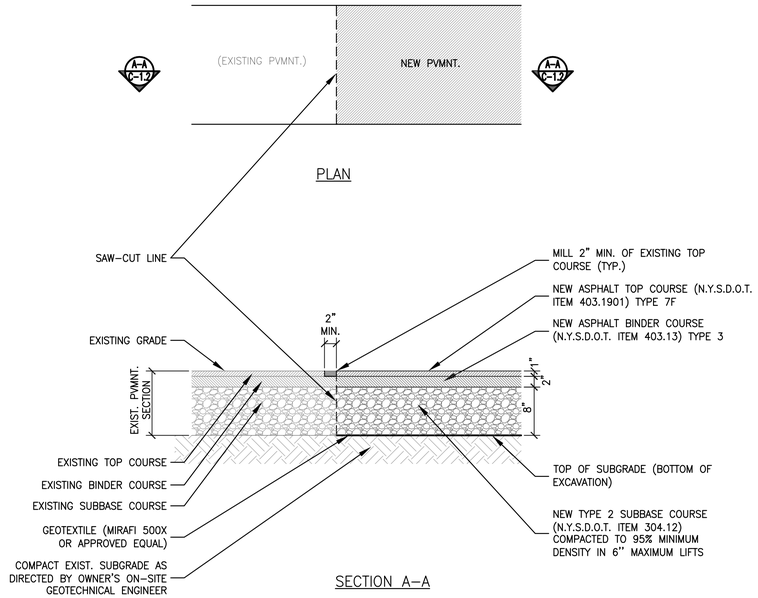


CONCRETE PAD SECTION (A)

SCALE : 1" = 1'-0"

NOTES

1. ALL CONCRETE AREAS SHALL BE SCORED 5' ON CENTER (OR AS SHOWN ON SITE LAYOUT PLAN) BY SAW-CUTTING CONTROL JOINTS 1-1/2 INCHES DEEP. SEAL ALL JOINTS WITH ASPHALT CEMENT (N.Y.S.D.O.T. SPECIFICATION 702-0700.
2. EXPANSION JOINTS IN CONCRETE AREAS SHALL BE NO MORE THAN 25' ON CENTER AND AT INTERFACES BETWEEN DRIVEWAYS, SIDEWALKS, SLABS, AND FOUNDATIONS.ALL SIDEWALK EDGES SHALL BE TOOLED AND SHALL HAVE A 1/4-INCH EDGE RADIUS.
3. INSTALL 1/2-INCH PRE-MOLDED RESILIENT JOINT FILLER AT ALL EXPANSION JOINTS AND AT INTERFACE BETWEEN SIDEWALK AND BUILDING WALLS.
4. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

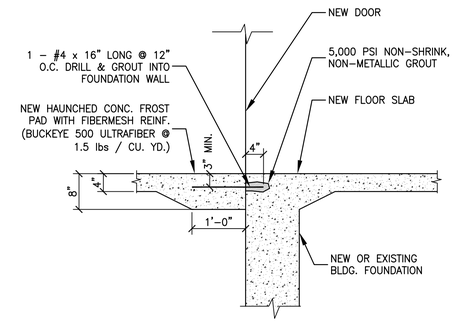


SECTION A-A

PAVEMENT TRANSITION DETAIL (B)

SCALE : 1" = 1'-0"

NOTE: TACK COAT MILLED AND ALL OTHER SURFACES



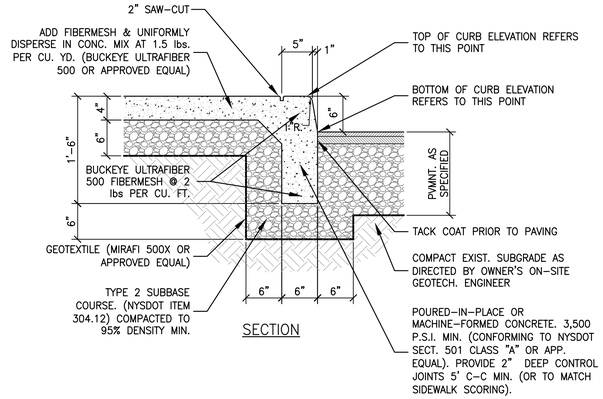
SECTION

SIDEWALK ABUTTING FOUNDATION AT DOORS (C)

SCALE 3/4" = 1'-0"

NOTES:

1. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.



SECTION

INTEGRAL CURB-WALK DETAIL (D)

SCALE : 1" = 1'-0"

NOTE:

1. PROVIDE DOWELS @ 12" C-C INTO FOUNDATION WHERE SIDEWALK ABUTS AGAINST BUILDING WALL (AT DOOR ENTRANCES ONLY) TO PREVENT FROST HEAVING. AT OTHER AREAS WHERE SIDEWALK ABUTS AGAINST BUILDING WALL PROVIDE ½" PRE-MOLDED EXPANSION JOINT WITH BACKER ROD AND SEALANT.
2. CONCRETE SHALL HAVE A SLUMP OF NO MORE THAN 5" AND AN AIR ENTRAINMENT OF 4-6%. THE USE OF CALCIUM CHLORIDE IS NOT PERMITTED. PROVIDE PROPER CONCRETE PROTECTION IN COLD WEATHER AND MAINTAIN PROPER CURING PROCEDURES IN CONFORMANCE WITH ALL A.C.I. REQUIREMENTS.

FOR OFFICIAL TOWN OF AMHERST USE

EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

1	REV. PER SITE PLAN REVIEW	5/28/25
2	ISSUED FOR SITE PLAN REV.	1/21/25
3	ISSUED FOR CLIENT REVIEW	1/3/25

SITE DETAILS

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

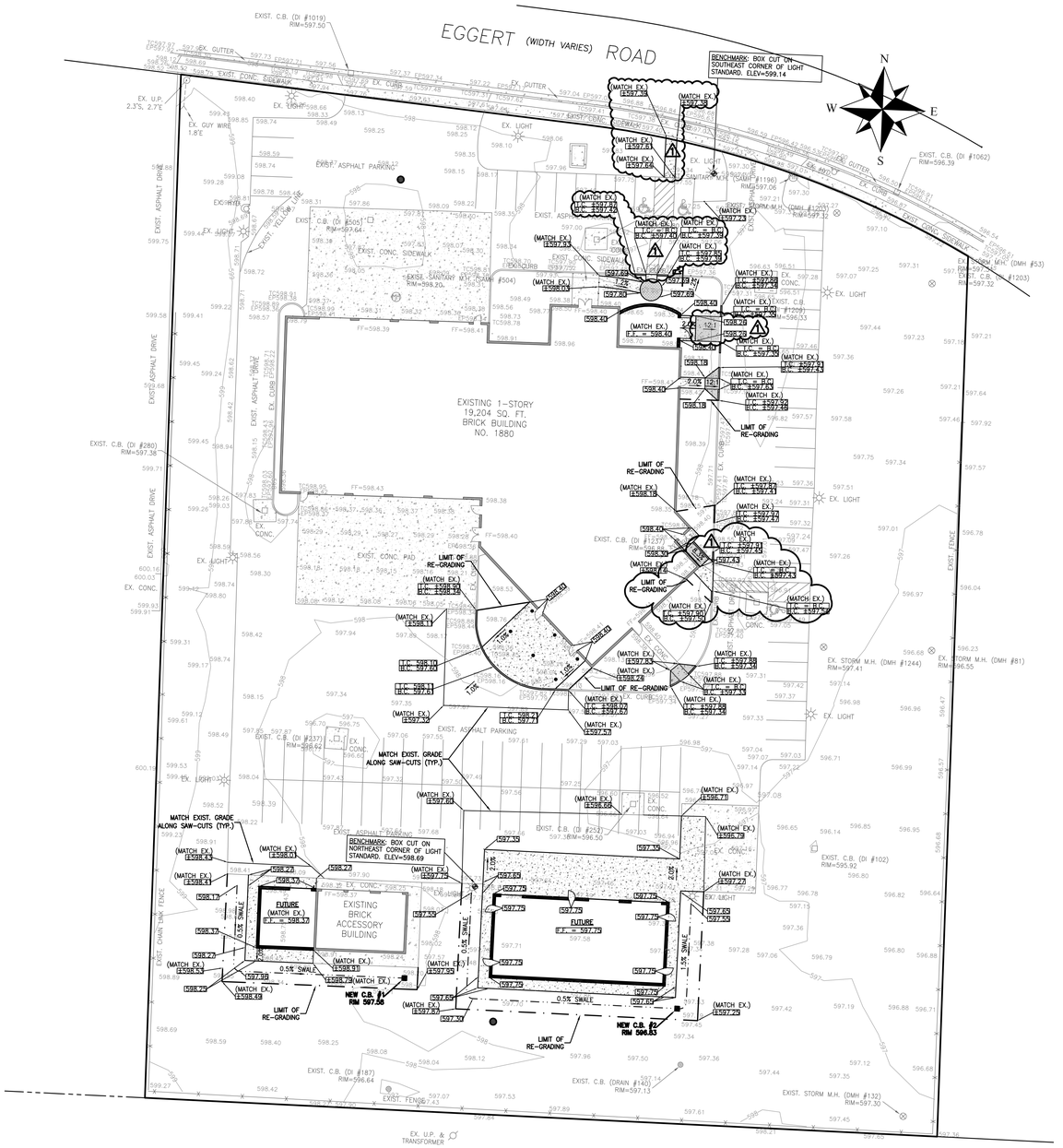
SHEET C-1.4

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY FRANDINA ENGINEERING & SURVEYING DATED FEBRUARY 7, 2024 AND IDENTIFIED AS JOB NO. 4954, INCLUDED WITH THIS SET OF SITE PLANS.
2. THE CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITY LOCATIONS AND DEPTHS PRIOR TO THE START OF EXCAVATION AND CONSTRUCTION.
3. ALL SOIL FILL AREAS SHALL BE PLACED IN 8" MAXIMUM LIFTS. FILL SHALL NOT BE PLACED ON FROZEN SOIL.
4. ALL FILL AREAS BENEATH PAVED AREAS SHALL BE COMPACTED TO A MINIMUM 95% DENSITY IN 6" MAXIMUM LIFTS AS DETERMINED PER ASTM D 1557.
5. THE MINIMUM REQUIRED DENSITY FOR FILL BENEATH ALL DETENTION BASIN AREAS SHALL BE AT LEAST 92% OF THE MAXIMUM DRY DENSITY WITH A MOISTURE CONTENT WITHIN 2% OF THE OPTIMUM.
6. WHEREVER POSSIBLE, EXCAVATED TOPSOIL SHALL BE STOCKPILED ON SITE AND RE-USED DURING LANDSCAPING AS NECESSARY.
7. FUTURE LAWN AREAS SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL AND SEED.
8. TILLING SHALL NOT BE PERFORMED WITHIN THE DRIP LINE OF EXISTING TREES TO REMAIN OR OVER EXISTING UNDERGROUND UTILITIES LESS THAN 24 INCHES BELOW GRADE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND UNDERPINNING EXPOSED FOUNDATIONS ADJACENT TO EXCAVATIONS. THE STRUCTURAL ENGINEER SHALL BE CONTACTED FOR ASSOCIATED DETAILS.
10. ANY DAMAGED PROPERTY WITHIN THE PROJECT SITE OR ADJACENT PROJECT SITES SHALL BE RESTORED IN KIND.
11. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE TOWN OF AMHERST PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS. ANY AND ALL CHANGES MADE WITHOUT NOTIFICATION OR APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) SHALL BE CONSIDERED UNAUTHORIZED AND THE DESIGN ENGINEER (STUDIO T3) SHALL NOT BE LIABLE FOR ANY DAMAGES, DELAYS, ADDITIONAL COSTS INCURRED, OR ANY OTHER CONSEQUENCES ARISING FROM SUCH CHANGES.
12. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT TOWN OF AMHERST BUILDING DEPARTMENT (716) 631-7080 FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB
- SITE PARCEL R.O.W. / PROPERTY LINE
- ADJACENT PARCEL R.O.W. / PROPERTY LINE
- PAVEMENT SAW-CUT LINE
- BOTTOM OF NEW SWALE
- EXISTING UTILITY POLE
- 2.0% SURFACE FLOW DIRECTION & SLOPE
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- EXISTING MANHOLE
- NEW MANHOLE
- EXISTING CONTOUR LINE
- EXISTING SPOT ELEVATION
- T.C. XXX.XX / B.C. XXX.XX TOP OF CURB ELEVATION / BOTTOM OF CURB ELEVATION
- XXX.XX NEW SPOT ELEVATION



SITE GRADING PLAN

SCALE : 1'' = 30'-0''

0 30 60 120

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

1	REV. PER SITE PLAN REVIEW	5/28/25
1	ISSUED FOR SITE PLAN REV.	1/21/25
1	ISSUED FOR CLIENT REVIEW	1/3/25

SITE GRADING PLAN

studio T3
Engineering, PLLC
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Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

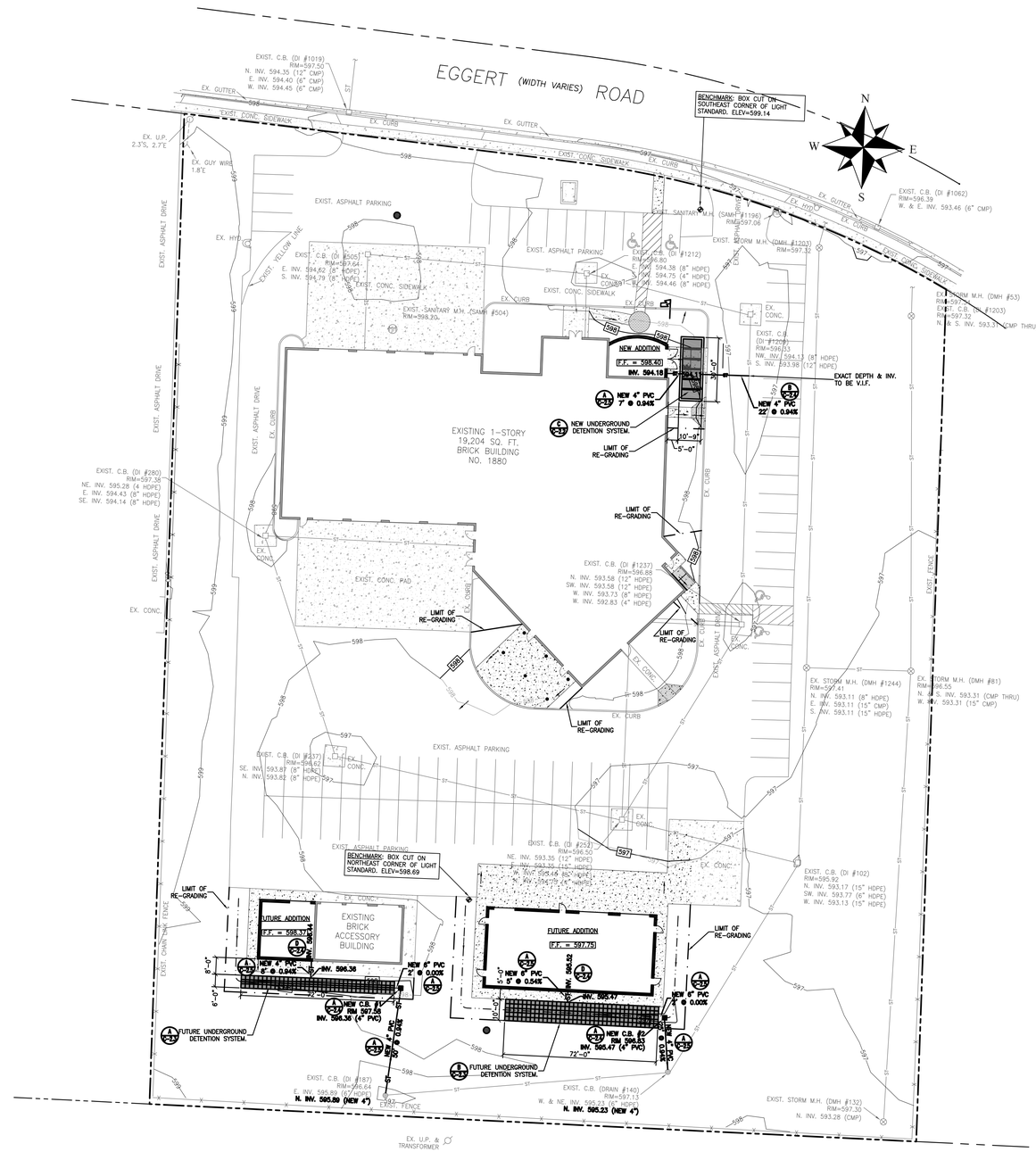
SHEET C-2.0

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY FRANDINA ENGINEERING & SURVEYING DATED FEBRUARY 7, 2024 AND IDENTIFIED AS JOB NO. 4954, INCLUDED WITH THIS SET OF SITE PLANS.
2. FOR REFERENCE ALSO SEE ARCHITECTURAL AND PLUMBING PLANS FOR EXACT LOCATIONS AND DEPTHS OF ROOF DRAIN LEADER CONNECTIONS AT BUILDING WALLS.
3. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR STORM SEWER SYSTEM FAILURE DUE TO LACK OF INSPECTIONS OR MAINTENANCE.
4. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER (STUDIO T3) AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE INSTALLATION CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN. IF NECESSARY AN UNDERGROUND UTILITY SURVEY SHALL BE DONE PRIOR TO EXCAVATION AND CONSTRUCTION IN ORDER TO ELIMINATE DELAYS RESULTING FROM INTERFERENCE WITH UN-DOCUMENTED OR UN-LOCATED BURIED UTILITIES ENCOUNTERED.
5. THE DESIGN ENGINEER (STUDIO T3) SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
6. ALL NEW ROOF DRAIN LATERALS SHALL CONFORM TO ASTM D 2665, ASTM D 3034, ASTM F 891, CSA-B182.2, OR CAN/CSA-B182.4.
7. ALL STORM PIPE FITTINGS SHALL CONFORM TO ASTM D 2609, ASTM D 2464, ASTM D 2466, ASTM D 2467, CAN/CSA-B137.2, OR ASTM D 2665.
8. REGULAR MAINTENANCE OF THE UNDERGROUND DETENTION SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER (EGGERTSVILLE HOSE).
9. THE CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED BY THE LOCAL PLUMBING AND BUILDING DEPARTMENT, AS WELL AS TESTS REQUIRED IN THE NYS PLUMBING CODE SECTIONS 312.2 THRU 312.9.
10. ALL JOINTS OR JOINT SYSTEMS FOR NEW UNDERGROUND DETENTION SYSTEMS AND STORM SEWERS SHALL BE SILT TIGHT, AND SHALL RESIST INFILTRATION OF SOIL PARTICLES THAT PASS THE NO. 200 SIEVE. IF GEOTEXTILE WRAP IS SPECIFIED FOR USE IN JOINTS, IT SHALL MEET AASHTO M288, WITH AN APPARENT OPENING SIZE (AOS) GREATER THAN 70.
11. PER SECTION 107.2 OF THE NYS PLUMBING CODE, THE CONTRACTOR SHALL NOTIFY THE TOWN OF AMHERST PLUMBING INSPECTOR AT (716) 631-7080 TO SCHEDULE INSPECTIONS OF ALL NEW UTILITY INSTALLATIONS. UNDERGROUND INSPECTIONS SHALL BE MADE AFTER TRENCHES ARE EXCAVATED, PIPING INSTALLED, AND BEFORE ANY BACKFILL IS PUT IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE PLUMBING INSPECTOR WHEN WORK IS READY FOR INSPECTION. EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND UNDERPINNING EXPOSED FOUNDATIONS ADJACENT TO EXCAVATIONS. THE STRUCTURAL ENGINEER SHALL BE CONTACTED FOR ASSOCIATED DETAILS.
13. ANY DAMAGED PROPERTY WITHIN THE PROJECT SITE OR ADJACENT PROJECT SITES SHALL BE RESTORED IN KIND.
14. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE TOWN OF AMHERST PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS. ANY AND ALL CHANGES MADE WITHOUT NOTIFICATION OR APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) SHALL BE CONSIDERED UNAUTHORIZED AND THE DESIGN ENGINEER (STUDIO T3) SHALL NOT BE LIABLE FOR ANY DAMAGES, DELAYS, ADDITIONAL COSTS INCURRED, OR ANY OTHER CONSEQUENCES ARISING FROM SUCH CHANGES.
15. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE TOWN OF AMHERST BUILDING DEPARTMENT (716) 631-7080 FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB (6")
- SITE PARCEL R.O.W. / PROPERTY LINE
- ADJACENT PARCEL R.O.W. / PROPERTY LINE
- BOTTOM OF NEW SWALE
- EXISTING STORM SEWER
- NEW STORM SEWER
- EXISTING UTILITY POLE
- EXISTING HYDRANT
- PROPOSED SURFACE FLOW DIRECTION
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- EXISTING MANHOLE
- NEW MANHOLE
- EXISTING CONTOUR LINE (TO REMAIN)
- FORMER CONTOUR LINE (RE-GRADED)
- NEW CONTOUR LINE (FINISHED GRADE)



SITE DRAINAGE PLAN

SCALE : 1"= 30'-0"

0 30 60 120

FOR OFFICIAL TOWN OF AMHERST USE

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EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

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2	ISSUED FOR SITE PLAN REV.	1/21/25
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SITE DRAINAGE PLAN

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET C-2.1

STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740 OR SC-310.
2. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS.
3. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
4. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
5. CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418-16 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   a. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
   b. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
   c. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

PROJECT INFORMATION	
ENGINEERED PRODUCT MANAGER:	IAN KUCHMAN 585-472-1312 IAN.KUCHMAN@ADS-PIPE.COM
ADS SALES REP:	DAVE ENSER (716) 860-4608 DAVE.ENSER@ADS-PIPE.COM
PROJECT NO:	197984

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
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. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" (20-50 mm).
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

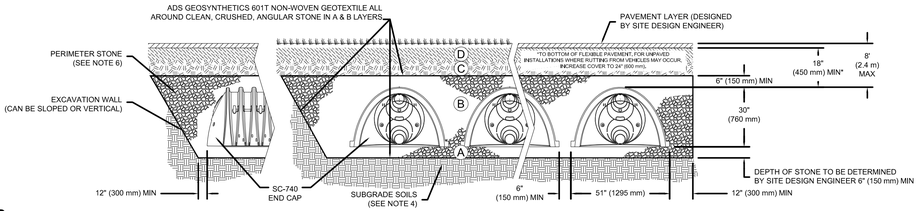
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. [2 3]

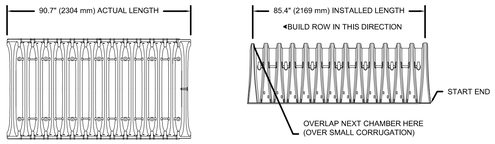
PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

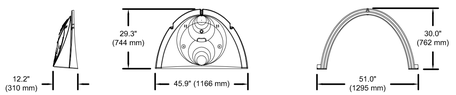


NOTES:

1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. 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.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SC-740 TECHNICAL SPECIFICATION
NTS

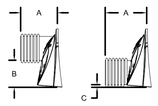




NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



PRE-FAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PRE-FAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PRE-CORED END CAPS END WITH "PC"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	---
SC740EPE06B / SC740EPE06BPC			---	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EPE08B / SC740EPE08BPC			---	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EPE10B / SC740EPE10BPC			---	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EPE12B / SC740EPE12BPC			---	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EPE15B / SC740EPE15BPC			---	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EPE18B / SC740EPE18BPC			---	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

STORMTECH SC-740 DETAILS (A)
SCALE : N.T.S.

Chamber Model = ADS_StormTech SC-740 b +Cap (ADS StormTech® SC-740 with cap storage)
Effective Size= 44.6"W x 30.0"H => 6.45 sf x 7.12'L = 45.9 cf
Overall Size= 51.0"W x 30.0"H x 7.56'L with 0.44' Overlap
Cap Storage= 2.7 cf x 2 x 6 rows = 31.9 cf

51.0" Wide + 6.0" Spacing = 57.0" C-C Row Spacing

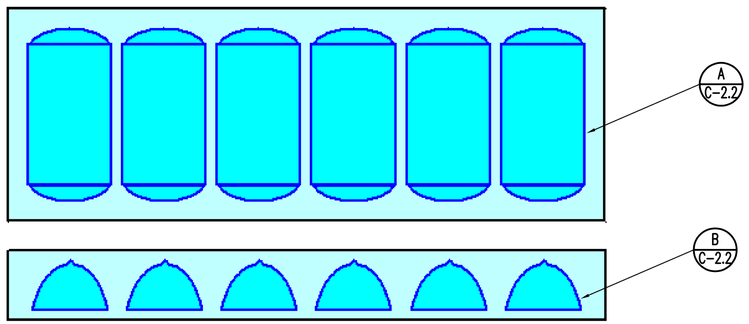
1 Chambers/Row x 7.12' Long +0.81' Cap Length x 2 = 8.74' Row Length +12.0" End Stone x 2 = 10.74' Base Length
6 Rows x 51.0" Wide + 6.0" Spacing x 5 + 12.0" Side Stone x 2 = 30.00' Base Width
6.0" Stone Base + 30.0" Chamber Height + 6.0" Stone Cover = 3.50' Field Height

6 Chambers x 45.9 cf + 2.7 cf Cap Volume x 2 x 6 Rows = 307.5 cf Chamber Storage

1,127.3 cf Field - 307.5 cf Chambers = 819.8 cf Stone x 40.0% Voids = 327.9 cf Stone Storage

Chamber Storage + Stone Storage = 635.4 cf = 0.015 af
Overall Storage Efficiency = 56.4%
Overall System Size = 10.74' x 30.00' x 3.50'

6 Chambers
41.8 cy Field
30.4 cy Stone



UNDERGROUND DETETNION SCHEMATIC (C)
SCALE : N.T.S.

UNDERGROUND DETETNION SECTION (B)
SCALE : N.T.S.

FOR OFFICIAL TOWN OF AMHERST USE

THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE EXCAVATION & CONSTRUCTION TO ENSURE HE/SHE HAS THE FINAL SET OF DESIGN DOCUMENTS AS ISSUED FOR CONSTRUCTION. THIS PLAN IS CURRENT AS OF THE DATE IT WAS ISSUED. SUBSEQUENT UPDATES OF THIS PLAN BY THE DESIGN ENGINEER DOES NOT AFFORD ANY TRANSFEREES THE RIGHT TO RECEIVE SAID UPDATES, BUT PLACES THE RESPONSIBILITY TO THE TRANSFEREE TO OBTAIN UPDATED PLANS WHICH ARE ISSUED FOR CONSTRUCTION AS THESE MAY DIFFER FROM PREVIOUS PLANS ISSUED FOR PERMIT OR BID.

EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

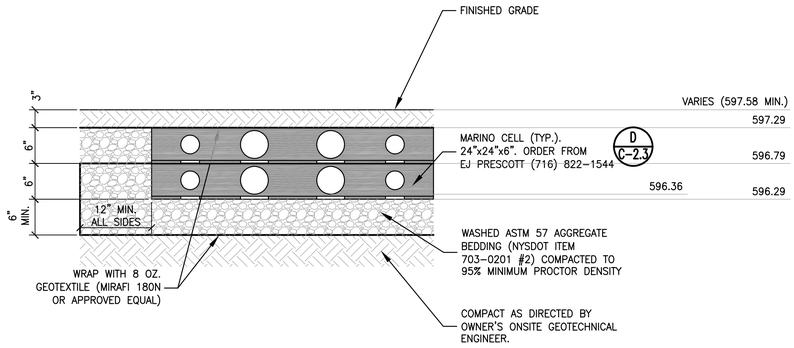
1	REV. PER SITE PLAN REVIEW	5/28/25
2	ISSUED FOR SITE PLAN REV.	1/21/25
3	ISSUED FOR CLIENT REVIEW	1/3/25

DRAINAGE DETAILS

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

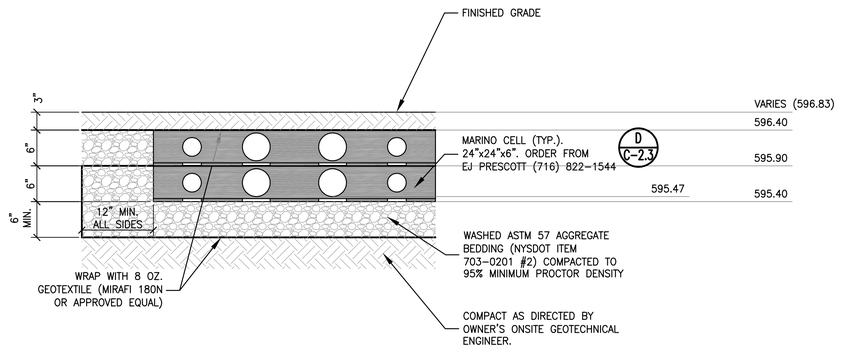
SHEET C-2.2



SECTION

PHASE 2 UNDERGROUND DETENTION (A)

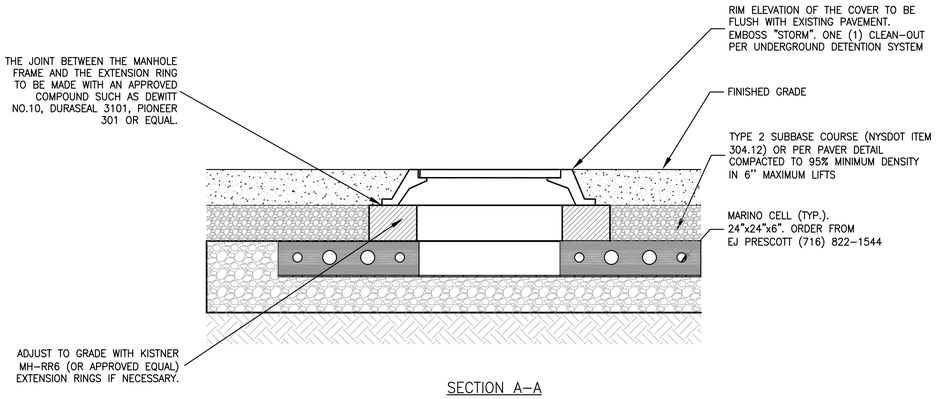
SCALE : 1" = 1'-0"



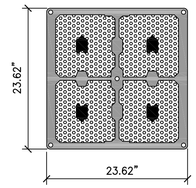
SECTION

PHASE 3 UNDERGROUND DETENTION (B)

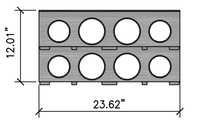
SCALE : 1" = 1'-0"



SECTION A-A



MARINO CELL DECK PLAN VIEW

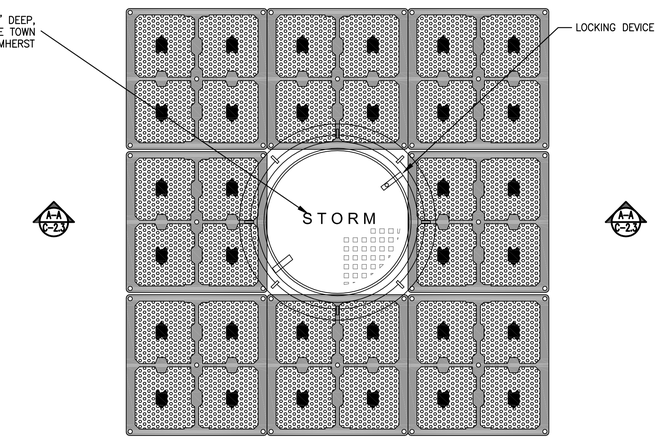


MARINO CELL SYSTEM 2 LAYER 1 DECK OVER 2 FRAMES ELEVATION

UNDERGROUND DETENTION STANDARD DETAILS (D)

SCALE : 1" = 1'-0"

ORDER MARINO CELL SYSTEM FROM EJ PRESCOTT (716) 822-1544



CLEAN-OUT MANHOLE (C)

SCALE : 1" = 1'-0"

FOR OFFICIAL TOWN OF AMHERST USE

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EXTERIOR SITE IMPROVEMENTS
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STAMP/SEAL

7	REV. PER SITE PLAN REVIEW	5/28/25
6	ISSUED FOR SITE PLAN REV.	1/21/25
5	ISSUED FOR CLIENT REVIEW	1/3/25

DRAINAGE DETAILS

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DRAWN BY: AVT
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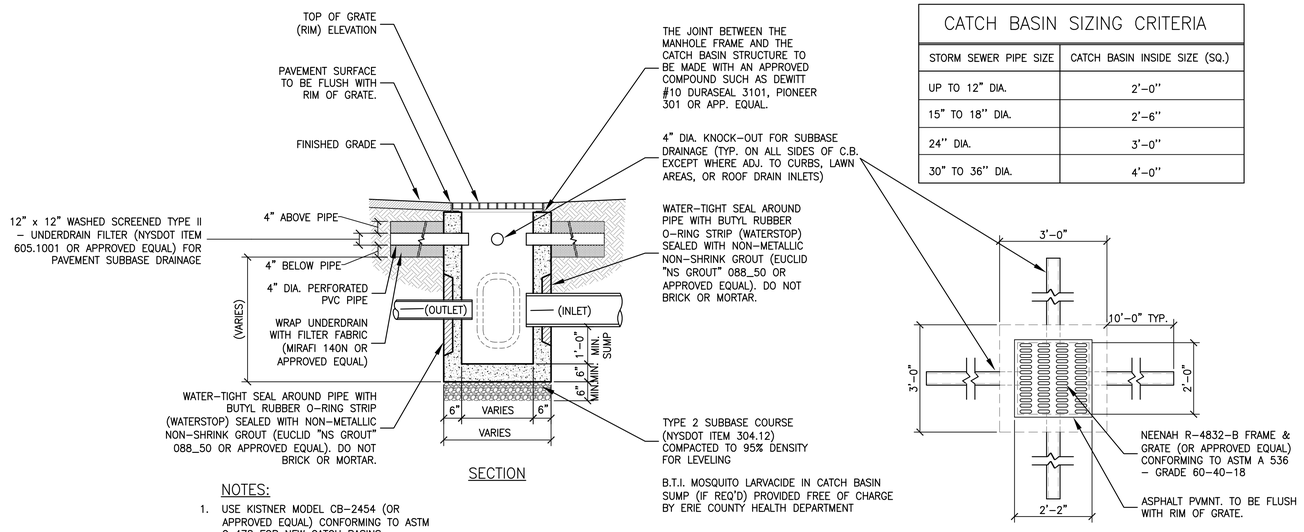
JOB # 23-194A

SHEET C-2.3



SECTION

CATCH BASIN DETAIL (A)

SCALE : 1/2" = 1'-0"

NOTES:

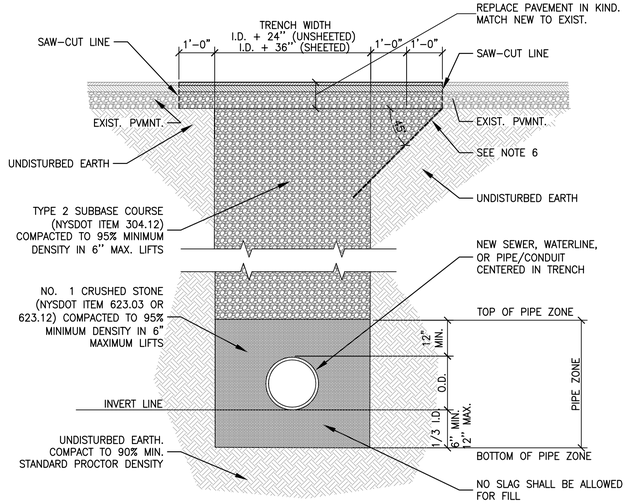
1. USE KISTNER MODEL CB-2454 (OR APPROVED EQUAL) CONFORMING TO ASTM C 478 FOR NEW CATCH BASINS.
2. TYPE II UNDERDRAIN FILTER SHALL CONFORM TO NYSDOT TABLE 703-4, SIZE DESIGNATION 1A. (OPTIONAL: USE WASHED SCREENED PEA GRAVEL (NYSDOT ITEM 623.01 OR 623.10) CONFORMING TO NYSDOT TABLE 703-4, SIZE DESIGNATION.
3. FOR HANDICAP ACCESSIBLE PATHS GRATING OPENINGS SHALL NOT EXCEED ½" IN ONE DIRECTION. GRATING OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE PROMINENT DIRECTION OF TRAVEL.

CATCH BASIN SIZING CRITERIA

STORM SEWER PIPE SIZE	CATCH BASIN INSIDE SIZE (SQ.)
UP TO 12" DIA.	2'-0"
15" TO 18" DIA.	2'-6"
24" DIA.	3'-0"
30" TO 36" DIA.	4'-0"

PLAN VIEW

IF NECESSARY, ADJUST GRATES TO FIN. GRADE WITH KISTNER MH-RR6 (OR APPROVED EQUAL) EXTENSION RINGS. (A) THE JOINTS BETWEEN THE C.B. STRUCTURE AND THE EXTENSION RINGS SHALL BE MORTARED IN PLACE, (B) THE INDIVIDUAL RINGS SHALL NOT EXCEED 6" IN THICKNESS. THE TOTAL NUMBER PLACED SHALL BE LIMITED TO 2 OR A MAXIMUM OF 12" IN HEIGHT.



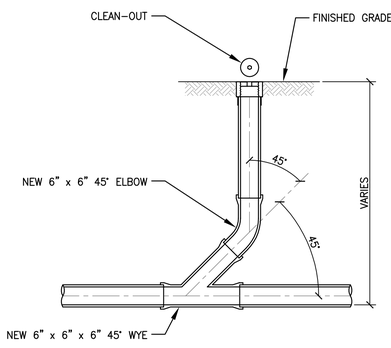
SECTION

PAVEMENT REPLACEMENT DETAIL (B)

SCALE : 1/2" = 1'-0"

NOTES

1. IF CONSTRUCTION IS PERFORMED BETWEEN OCTOBER 1 AND APRIL 1, THE CONTRACTOR IS REQUIRED TO PROVIDE 4" OF COLD PATCH FOR ALL PAVEMENT CUTS.
2. ALL OPEN CUTS WITHIN 50' OF AN INTERSECTION SHALL BE TOPPED WITH 4" OF COLD PATCH REGARDLESS OF THE TIME OF YEAR.
3. ALL ROAD CUTS ON HEAVILY TRAVELED HIGHWAYS ROADWAYS WILL REQUIRE 4" OF COLD PATCH (GENERALLY STATE AND COUNTY HIGHWAYS).
4. ALL TEMPORARY PAVEMENT PATCHES SHALL BE MAINTAINED BY THE CONTRACTOR.
5. SHEETING OR SHORING SHALL BE REQUIRED PER O.S.H.A. STANDARDS FOR WORKER SAFETY AND PROTECTION OF TRENCH AREA. ALL SHORING AND TRENCHING SHALL BE DONE AS DIRECTED BY THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER AND SHALL REMAIN IN PLACE UNTIL ALL TRENCHING OPERATIONS ARE COMPLETED.
6. SELECT FILL (NYSDOT ITEM 304.12) IS REQUIRED BENEATH NON-PAVED AREAS ADJACENT TO PAVED AREAS IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
7. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO NYSDOT TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
8. PAVEMENT CUTS BY THE CONTRACTOR WILL BE MADE WITH A SAW, PNEUMATIC SPADE OR OTHER ACCEPTED MEANS PRIOR TO EXCAVATION.
9. FINAL PAVEMENT RESTORATION: THE CONTRACTOR WILL BE RESPONSIBLE TO SAW CUT AN ADDITIONAL 12" ON EACH SIDE OF THE DISTURBED TRENCH AREA, SO AS TO PROVIDE A UNIFORM STRAIGHT EDGE. THE CUT EDGE WILL THEN BE COATED WITH A BITUMINOUS SEAL COAT AND REPLACED IN THE MANNER DESCRIBED ABOVE.



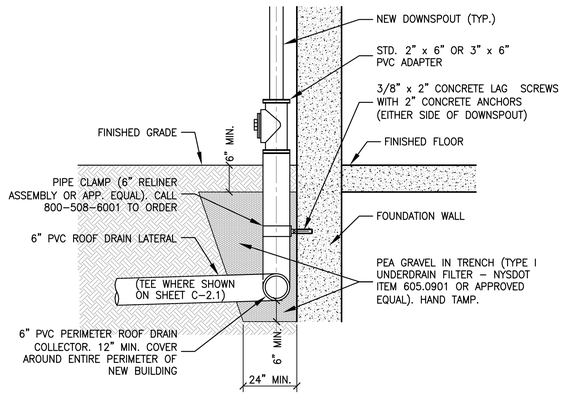
SECTION

CLEAN-OUT DETAIL (C)

SCALE :1/2" = 1'-0"

NOTES

1. CLEAN-OUT BODIES SHALL BE PVC MODEL 2-115 STANDARD FERRULE TYPE AND CLEAN-OUT PLUG SHALL BE CAST IRON, S-PLAIN COUNTERSUNK AS MANUFACTURED BY TYLER PIPE, OR APP. EQUAL.
2. IN TRAFFIC AREAS A CONCRETE COLLAR SHALL BE POURED AROUND THE CLEAN-OUT.
3. CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.



SECTION

PIPE ANCHORING DETAIL (D)

SCALE : 3/4" = 1'-0"

FOR OFFICIAL TOWN OF AMHERST USE

THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE EXCAVATION & CONSTRUCTION TO ENSURE HE/SHE HAS THE FINAL SET OF DESIGN DOCUMENTS AS ISSUED FOR CONSTRUCTION. THIS PLAN IS CURRENT AS OF THE DATE IT WAS ISSUED. SUBSEQUENT UPDATES OF THIS PLAN BY THE DESIGN ENGINEER DOES NOT AFFORD ANY TRANSFEREES THE RIGHT TO RECEIVE SAID UPDATES, BUT PLACES THE RESPONSIBILITY TO THE TRANSFEREE TO OBTAIN UPDATED PLANS, WHICH ARE ISSUED FOR CONSTRUCTION AS THESE MAY DIFFER FROM PREVIOUS PLANS ISSUED FOR PERMIT OR BID.

EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

1	REV. PER SITE PLAN REVIEW	5/28/25
2	ISSUED FOR SITE PLAN REV.	1/21/25
3	ISSUED FOR CLIENT REVIEW	1/3/25

DRAINAGE DETAILS

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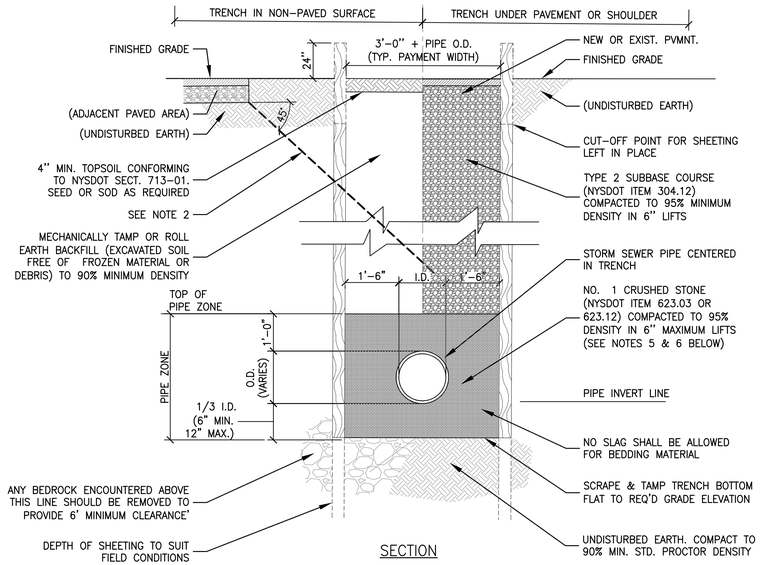
DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

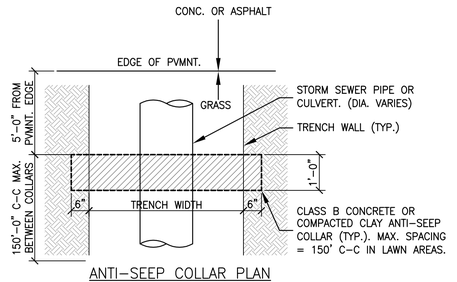
SHEET C-2.4



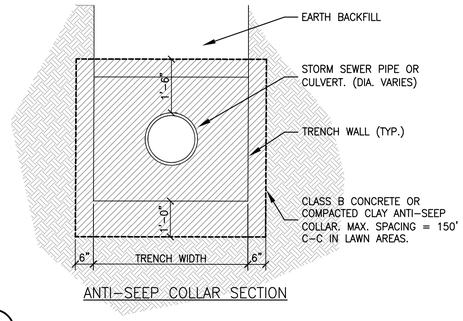
SECTION

STORM SEWER TRENCH (A)

SCALE 1/2" = 1'-0"



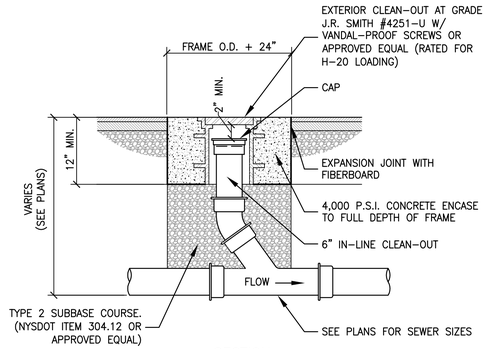
ANTI-SEEP COLLAR PLAN



ANTI-SEEP COLLAR SECTION

NOTES

1. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
2. SELECT FILL (NYSDOT ITEM 304.12) IS REQUIRED BENEATH NON-PAVED AREAS ADJACENT TO PAVED AREAS IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
3. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO NYSDOT TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 703-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
4. COMPACTED CLAY OR CLASS B CONCRETE ANTI-SEEPAGE COLLARS SHALL BE USED IN GRASS AREAS TO ELIMINATE THE POSSIBILITY OF PIPE UNDERMINING DUE TO SEEPAGE THROUGH THE PIPE ZONE. (SEE DETAIL RIGHT).
5. IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVIED BY EXCAVATING A MINIMUM OF TWO PIPE DIAMETERS AND BACKFILLING TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY AS IN NOTE 5 ABOVE.



SECTION

PAVED AREA CLEAN-OUT DETAIL (B)

SCALE : 3/4" = 1'-0"

NOTES

1. CLEAN-OUT BODIES SHALL BE PVC MODEL 2-115 STANDARD FERRULE TYPE AND CLEAN-OUT PLUG SHALL BE CAST IRON, S-PLAIN COUNTERSUNK AS MANUFACTURED BY TYLER PIPE, OR APP. EQUAL.
2. CLEAN-OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN-OUT.

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

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DRAINAGE DETAILS

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DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

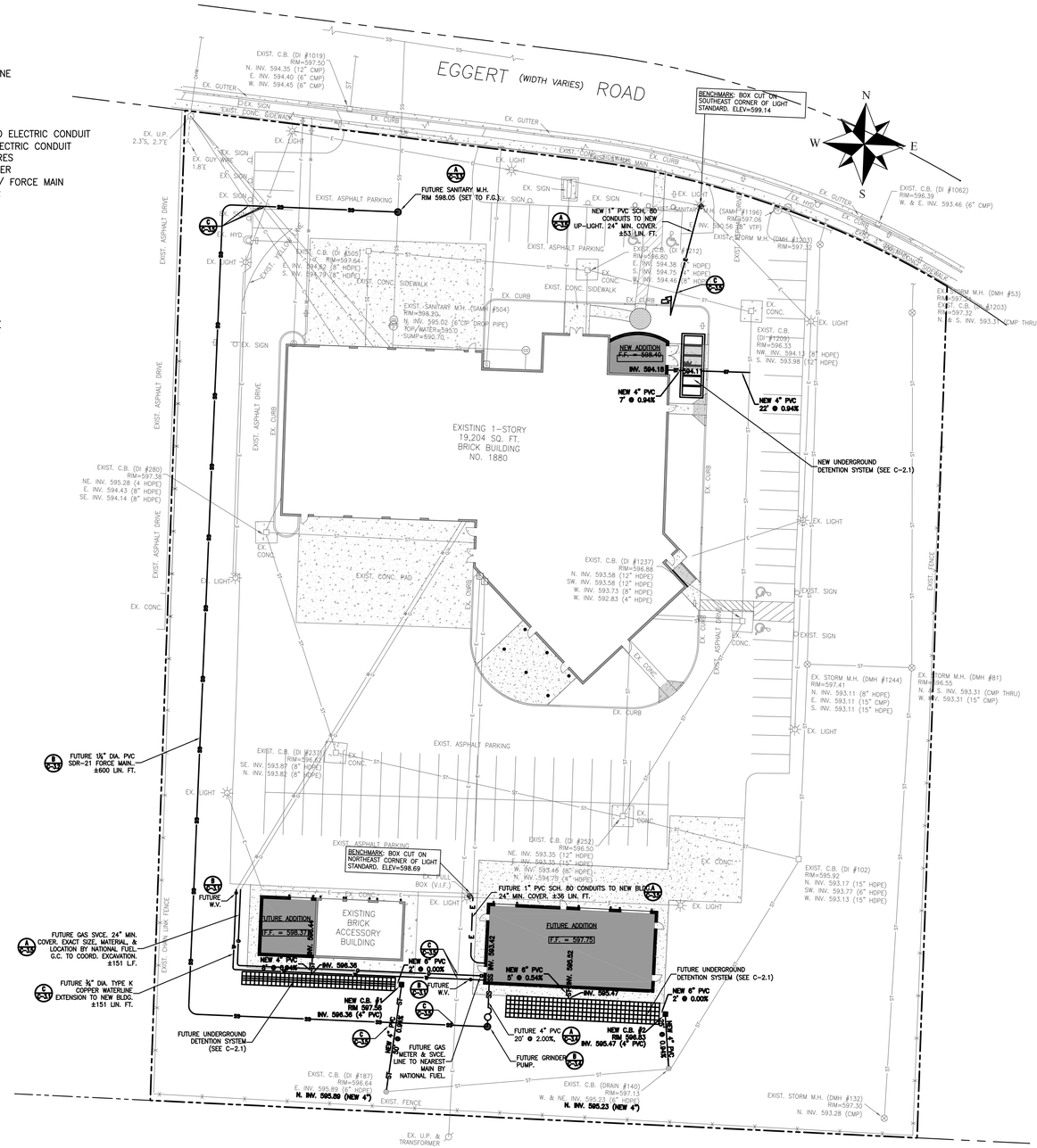
SHEET C-2.5

NOTES

1. FOR REFERENCE INFORMATION SEE TOPOGRAPHIC SURVEY PREPARED BY FRANDINA ENGINEERING & SURVEYING DATED FEBRUARY 7, 2024 AND IDENTIFIED AS JOB NO. 4954, INCLUDED WITH THIS SET OF SITE PLANS.
2. FOR REFERENCE ALSO SEE EXACT UTILITY CONNECTION LOCATIONS AND DEPTHS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL, H.V.A.C., AND PLUMBING PLANS.
3. EXISTING SERVICE UTILITY CONNECTIONS TO BE ABANDONED OR DISCONTINUED SHALL BE SHUT OFF BY THE RESPECTIVE UTILITY AGENCY PRIOR TO THE START OF WORK.
4. EXISTING UNDERGROUND UTILITY LINES TO REMAIN WHICH ARE UNCOVERED BY EXCAVATION SHALL BE ADEQUATELY SUPPORTED AND PROTECTED DURING EARTHWORK ACTIVITIES.
5. THE CONTRACTOR SHALL PROVIDE SLEEVES THROUGH NEW FOUNDATION WALLS AS NECESSARY FOR PROTECTING EXISTING AND PROPOSED UTILITY LINES.
6. A MINIMUM 1 FOOT (12 INCH) SEPARATION DISTANCE IS REQUIRED AT WATERLINE AND SANITARY SEWER CROSSINGS, OR ELSE THE WATERLINE SHALL BE SLEEVED TO 5 FEET HORIZONTALLY FROM THE CENTERLINE OF THE SANITARY SEWER ON BOTH SIDES OF THE CROSSING. ALL WATERLINES SHALL CROSS ABOVE SANITARY SEWERS.
7. WHERE WATERLINES ARE LOCATED PARALLEL TO SANITARY SEWERS, THERE SHALL BE A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 5 FEET (60 INCHES) FROM OUTSIDE OF THE WATERLINE AND THE SANITARY SEWER.
8. ALL NEW GAS, TELEPHONE (LAND LINE), CABLE (FIBEROPTIC), AND ELECTRICAL UTILITIES SHALL BE DESIGNED, SIZED, AND INSTALLED IN COORDINATION WITH EACH RESPECTIVE UTILITY AGENCY.
9. ALL NEW WATERLINE PIPING SHALL BE INSTALLED WITH A MIN. 5'-0" (60 INCH) DEPTH OF COVER.
10. THE NEW WATERLINE (INCLUDING THE NEW VALVES AND VALVE BOXES) SHALL BE INSTALLED BY THE CONTRACTOR AND PRIVATELY OWNED AND MAINTAINED.
11. PRIOR TO THE BEGINNING OF THE NEW WATER SERVICE, ALL NEW WATERLINES SHALL BE PURGED AND DISINFECTED IN CONFORMANCE WITH THE LATEST AWWA C651, AWWA C652, OR SECTION 610.1 OF THE NYS PLUMBING CODE
12. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER (STUDIO T3) AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN. IF NECESSARY AN UNDERGROUND UTILITY SURVEY SHALL BE DONE PRIOR TO EXCAVATION AND CONSTRUCTION IN ORDER TO ELIMINATE DELAYS RESULTING FROM INTERFERENCE WITH UN-DOCUMENTED OR UN-LOCATED BURIED UTILITIES ENCOUNTERED.
13. THE DESIGN ENGINEER (STUDIO T3) SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.
14. ALL NEW GRAVITY SANITARY SEWERS SHALL BE PVC (SDR-35) AND SHALL CONFORM TO ASTM D 3034, ASTM D 2665, ASTM D 2949, ASTM F 891, CSA B182.2, OR CAN/CSA-B182.4 STANDARDS.
15. ALL NEW COPPER WATERLINES SHALL MEET OR EXCEED THE LATEST ASTM B 75, B 88, B 251, OR B 447 SPECIFICATIONS, AS WELL AS NSF 61.
16. ALL NEW WATERLINES, VALVES, AND APPURTENANCES THAT ARE IN CONTACT WITH POTABLE WATER SHALL BE NSF/ANSI 61 CERTIFIED.
17. NATIONAL FUEL SHALL SUPPLY, INSTALL, OWN, AND MAINTAIN THE NEW GAS METER. NYSEG/NATIONAL FUEL SHALL ALSO TAP, INSTALL, AND OWN THE NEW GAS SERVICE LINE FROM MAIN TO NEW METER. THE CONTRACTOR SHALL CONTACT NATIONAL FUEL FOR INSTRUCTIONS, INSTALLATION COORDINATION, INSPECTION APPOINTMENTS, PERMIT APPLICATIONS, AND FEES.
18. NATIONAL GRID SHALL SUPPLY THE NEW ELECTRIC SUB-METER. THE CONTRACTOR SHALL INSTALL THE NEW ELECTRIC SUB-METER AND ELECTRIC CONDUITS IN COORDINATION WITH NATIONAL GRID. NATIONAL GRID SHALL ALSO TAP THE NEW SERVICE TO THE NEAREST EXISTING HAND HOLE / CONDUIT. THE CONTRACTOR SHALL CONTACT NATIONAL GRID FOR INSTRUCTIONS, INSTALLATION COORDINATION, INSPECTION APPOINTMENTS, PERMIT APPLICATIONS, AND FEES.
19. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 12" VERTICAL SEPARATION DISTANCE BETWEEN EXISTING GAS AND ELECTRIC LINES AND NEW WATERLINES, STORM, OR SANITARY SEWERS. ALL NEW UNDERGROUND UTILITIES SHALL PASS BENEATH EXISTING ELECTRIC AND GAS LINES UNLESS CONSENT IS OTHERWISE GIVEN BY THE SERVICE PROVIDER OR EASEMENT OWNER.
20. THE CONTRACTOR SHALL PERFORM ALL APPLICABLE TESTS AS REQUIRED IN THE NYS PLUMBING CODE SECTIONS 312.2 THRU 312.9 AND AWWA C600.
21. ALL JOINTS OR JOINT SYSTEMS FOR SANITARY SEWERS OR LATERALS SHALL BE WATER-TIGHT TO LIMIT LEAKAGE TO A MAXIMUM RATE OF 100 GALLONS PER INCH-DIAMETER PER MILE PER DAY.
22. PER SECTION 107.2 OF THE NYS PLUMBING CODE, THE CONTRACTOR SHALL NOTIFY THE TOWN OF AMHERST PLUMBING INSPECTOR AT (716) 631-7080 TO SCHEDULE INSPECTIONS. UNDERGROUND INSPECTIONS SHALL BE MADE AFTER TRENCHES ARE EXCAVATED, PIPING INSTALLED, AND BEFORE ANY BACKFILL IS PUT IN PLACE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE PLUMBING INSPECTOR WHEN WORK IS READY FOR INSPECTION. EQUIPMENT, MATERIAL, AND LABOR REQUIRED FOR TESTING SHALL BE FURNISHED BY THE CONTRACTOR.
23. NEW WATERLINES, FITTINGS, AND FIXTURES SHALL COMPLY WITH NSF 372 AND SHALL HAVE A WEIGHTED LEAD CONTENT OF 0.25% OR LESS.
24. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND COMPLIANCE WITH THE LATEST OSHA STANDARDS OR INDUSTRIAL CODE RULE 57 DURING CONSTRUCTION.
25. ANY DAMAGED PROPERTY WITHIN THE PROJECT SITE OR ADJACENT PROJECT SITES SHALL BE RESTORED IN KIND.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SHORING AND UNDERPINNING EXPOSED FOUNDATIONS ADJACENT TO EXCAVATIONS. THE STRUCTURAL ENGINEER SHALL BE CONTACTED FOR ASSOCIATED DETAILS.
27. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE TOWN OF AMHERST PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS. ANY AND ALL CHANGES MADE WITHOUT NOTIFICATION OR APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) SHALL BE CONSIDERED UNAUTHORIZED AND THE DESIGN ENGINEER (STUDIO T3) SHALL NOT BE LIABLE FOR ANY DAMAGES, DELAYS, ADDITIONAL COSTS INCURRED, OR ANY OTHER CONSEQUENCES ARISING FROM SUCH CHANGES.
28. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE TOWN OF AMHERST BUILDING DEPARTMENT (716) 631-7080 FOR INSTRUCTIONS, PERMIT APPLICATIONS, AND FEES.

LEGEND

- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- NEW GAS LINE
- EXISTING WATERLINE
- NEW WATERLINE
- EXISTING UNDERGROUND ELECTRIC CONDUIT
- NEW UNDERGROUND ELECTRIC CONDUIT
- EXISTING OVERHEAD WIRES
- EXISTING SANITARY SEWER
- NEW SANITARY SEWER / FORCE MAIN
- EXISTING STORM SEWER
- NEW STORM SEWER
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- EXISTING GAS VALVE
- NEW GAS VALVE
- EXISTING WATER VALVE
- NEW WATER VALVE
- EXISTING MANHOLE
- NEW MANHOLE
- EXISTING UTILITY POLE
- EXISTING LIGHT FIXTURE
- EXISTING FIRE HYDRANT
- EXISTING CLEAN-OUT
- NEW CLEAN-OUT



SITE UTILITY PLAN

SCALE : 1"= 30'-0"

0 30 60 120

SEWAGE LOAD = 400 GPD

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EGGERTSVILLE HOSE COMPANY EXTERIOR SITE IMPROVEMENTS 1880 EGGERT ROAD, AMHERST, NY 14226

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SITE UTILITY PLAN

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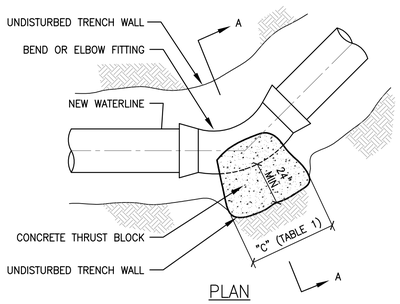
SHEET C-3.0

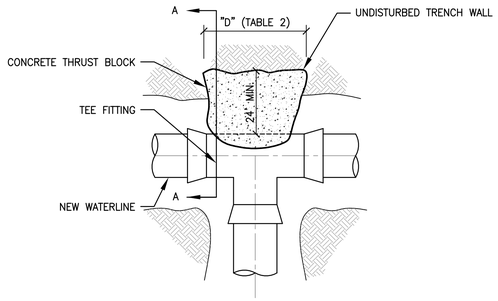
BENDS

11-¼° TO 90°



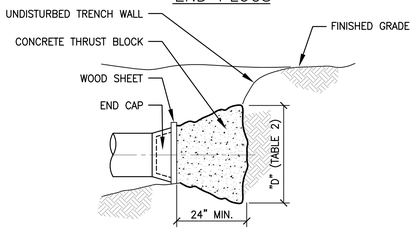
PLAN

TEES

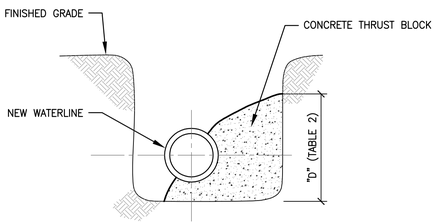


PLAN

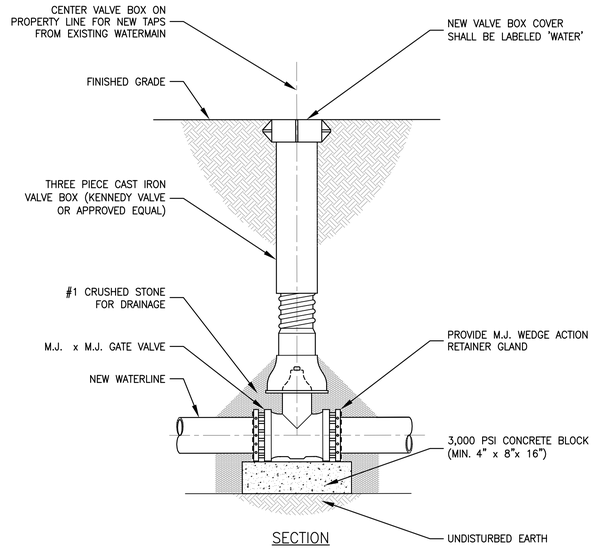
END PLUGS



SECTION



SECTION 'A-A'



SECTION

WATER VALVE & VALVE BOX DETAIL (B)

SCALE : 1" = 1'-0"

NOTES

1. VALVE SHALL NOT SUPPORT VALVE BOX.

TABLE 1								
PIPE DIA. (inches)	11 1/4°-22 1/2°		22 1/2° -45°		45° - 67 1/2°		67 1/2° - 90°	
	"C" DIM.	CONC. (CU. YD.)	"C" DIM.	CONC. (CU. YD.)	"C" DIM.	CONC. (CU. YD.)	"C" DIM.	CONC. (CU. YD.)
3/4 - 6	4"	0.03	8"	0.07	12"	0.10	15"	0.14
8	6"	0.07	11"	0.14	15"	0.21	22"	0.28

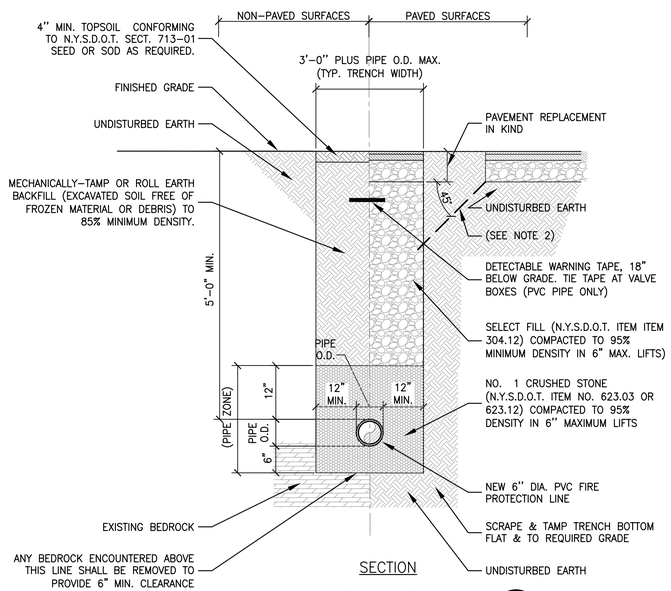
TABLE 2			
PIPE DIA. (inches)	"C"	CONCRETE VOLUME (CUBIC YARDS)	
	DIM.	TEE & END PLUG	BEND
6	0-9	0.06	0.13
8	1-2	0.18	0.25

THRUST BLOCK DETAILS (A)

SCALE : 2" = 1'-0"

NOTE:

THRUST BLOCK TO BE PLACED SO AS TO ALLOW REMOVAL OF MECHANICAL JOINT BOLTS OR SLIP-ON PIPE. CLASS "A" CONCRETE 5 DAY CURE BEFORE PRESSURE TEST HIGH EARLY CLASS "F" 2 DAY CURE BEFORE PRESSURE TEST.



SECTION

WATERLINE DETAIL (C)

SCALE : 3/4" = 1'-0"

NOTES:

1. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.
2. SELECT FILL (N.Y.S.D.O.T. ITEM 304.12) IS REQUIRED FOR FULL DEPTH UNDER DRIVEWAYS, ROAD CROSSINGS, AND IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
3. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: CLASS I, II, OR III MATERIALS AS PER ASTM D 2321
4. IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVING BY EXCAVATING A MINIMUM OF TWO PIPE DIAMETERS AND BACKFILLING TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% MINIMUM PROCTOR DENSITY.

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WATERLINE DETAILS

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DRAWN BY: AVT
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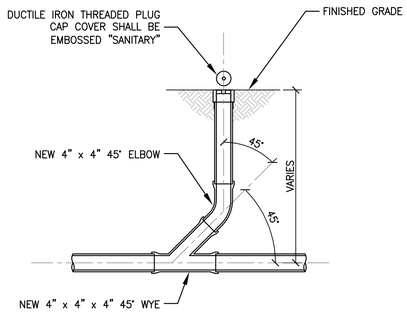
JOB # 23-194A

SHEET C-3.1



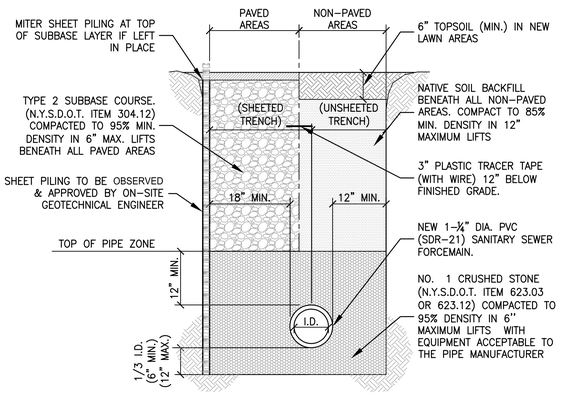
SECTION

SANITARY CLEAN–OUT DETAIL (A)

SCALE : 1/2" = 1'–0"

NOTES:

1. CLEAN–OUT BODIES SHALL BE PVC MODEL 2–115 STANDARD FERRULE TYPE AND CLEAN–OUT PLUG SHALL BE CAST IRON, S–PLAIN COUNTERSUNK AS MANUFACTURED BY TYLER PIPE, OR APP. EQUAL.
2. IN TRAFFIC AREAS A CONCRETE COLLAR SHALL BE POURED AROUND THE CLEAN–OUT.
3. CLEAN–OUTS SHALL BE LOCATED NOT MORE THAN 100 FEET APART MEASURED FROM THE UPSTREAM ENTRANCE OF THE CLEAN–OUT.



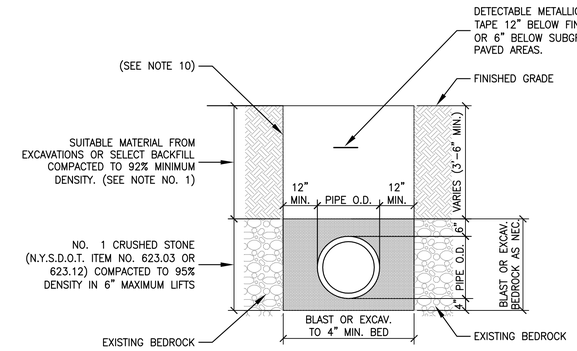
SECTION

FORCEMAIN DETAIL (B)

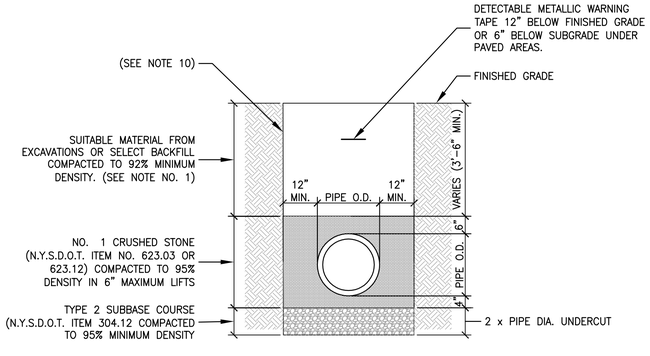
SCALE : 3/4" = 1'–0"

NOTES:

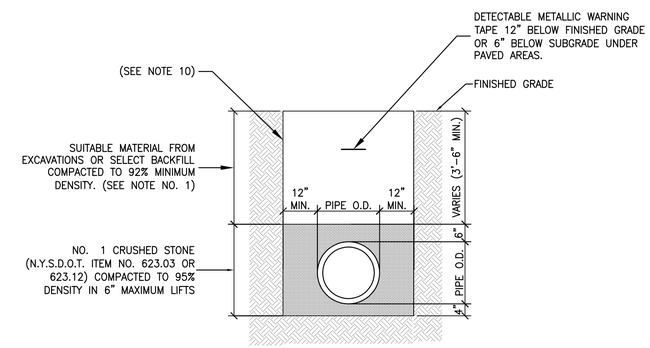
1. PIPE INSTALLATION SHALL BE IN CONFORMANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. FORCE MAIN MARKERS SHALL BE INSTALLED AT 500 FOOT INTERVALS AND AT POINTS WHERE THE FORCE MAIN DEFLECTS OR CHANGES DIRECTIONS.
3. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON–SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.
4. PIPE BEDDING AND MATERIAL AROUND THE PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO N.Y.S.D.O.T. TABLE 703–4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702–0201. SLAG SHALL NOT BE ALLOWED. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.



BEDROCK CONDITION



UNSTABLE TRENCH BOTTOM CONDITIONS



STABLE TRENCH BOTTOM CONDITIONS

SANITARY SEWER TRENCH DETAILS (C)

SCALE : 1/2" = 1'–0"

SANITARY SEWER NOTES

1. MATERIALS
   a. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703–4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702–0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
   b. UNDER ALL PAVED AREAS, BACKFILL ABOVE THE BEDDING MATERIAL SHALL BE WITH SELECT FILL.
   c. SELECT FILL SHALL BE TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM 304.12) COMPACTED TO 95% MINIMUM DENSITY IN 6" MAXIMUM LIFTS.
   d. UNDER LAWN AREAS, BACKFILL ABOVE THE BEDDING MATERIAL MAY BE WITH SUITABLE MATERIAL FROM THE EXCAVATIONS.
   e. SUITABLE MATERIAL FROM THE EXCAVATIONS SHALL BE ANY MINERAL (INORGANIC) SOIL FREE OF FROZEN MATERIAL, MUCK, PEAT, TOPSOIL, AND SOD.
   f. WHEN UNSTABLE TRENCH BOTTOM CONDITIONS ARE ENCOUNTERED,THE UNSTABLE TRENCH BOTTOMS SHALL BE UNDERCUT AND BACKFILLED WITH TYPE 2 SUBBASE COURSE (N.Y.S.D.O.T. ITEM NO. 304.12) COMPACTED TO 95% MIN. DENSITY, OR AS DIRECTED BY OWNER'S ON–SITE GEOTECHNICAL ENGINEER.
2. COMPACTION IS REQUIRED FOR ALL BEDDING, SELECT FILL AND BACKFILL WORK. SEE DETAILS AND SPECIFICATIONS FOR REQUIREMENTS.
3. ALL SANITARY SEWER MANHOLE COVERS SHALL BE EMBOSSED"SANITARY" AND "FATAL IF ENTERED".
4. ALL INTERIOR FLOOR DRAINS SHALL BE CONNECTED TO THE SANITARY SEWER. FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT GROUNDWATER SHALL NOT DISCHARGE TO THE SANITARY SEWER. ALL DISCHARGES TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL SEWER USE LAW. INFILTRATION AND EXFILTRATION TESTING SHALL BE PERFORMED WITH RATES LIMITED TO 100 GALLONS PER MILE PER INCH DIAMETER OF PIPE PER 24 HOURS FOR SANITARY SEWERS.
5. DEFLECTION AND INFILTRATION TESTS SHALL BE PERFORMED PER NYS PLUMBING CODES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING PROPOSED RIM ELEVATIONS IN RELATION TO FINISHED GRADES PRIOR TO INSTALLATION.
7. PIPE CONNECTIONS TO SANITARY SEWER MANHOLES SHALL CONFORM TO THE LATEST A.S.T.M. C–923 ("RESILIENT CONNECTORS BETWEEN REINFORCED CONCRETE MANHOLE STRUCTURES AND PIPE").
8. ALL SANITARY SEWER PIPE AND FITTINGS SHALL BE PVC SDR–35 AND SHALL CONFORM TO THE LATEST A.S.T.M. D–3034.
9. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS.
10. COMPRESSION GASKETS FOR HUB AND SPIGOT PIPE AND FITTINGS SHALL CONFORM TO THE LATEST ASTM C 564 AND SHALL BE COMPRESSED WHEN THE PIPE IS FULLY INSERTED.
11. JOINTS BETWEEN DIFFERENT PIPE MATERIALS SHALL BE MADE WITH AN INSERTA–TEE (OR APPROVED EQUAL) CONNECTION WITH AN ELASTOMERIC SEAL CONFORMING TO THE LATEST ASTM C 425, ASTM C 443, ASTM C 564, ASTM C 1173, ASTM D 1869, ASTM F 477, CAN/CSA A257.3M, OR CAN/CSA B602M.
12. THE FOLLOWING TYPES OF JOINTS AND CONNECTIONS SHALL BE PROHIBITED: CEMENT OR CONCRETE JOINTS, MASTIC OR HOT–POUR BITUMINOUS JOINTS, ELASTOMERIC ROLLING O–RING JOINTS, SOLVENT–CEMENT JOINTS, OR SADDLE–TYPE FITTINGS.

TESTING SPECIFICATIONS

1. DEFLECTION TEST
   a. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE IN CONFORMANCE WITH THE LATEST 10–STATE (G.L.U.M.R.B) STANDARDS.
   b. THE DEFLECTION TEST SHALL NOT BE CONDUCTED UNTIL THE FINAL BACKFILL OVER THE PIPE HAS BEEN IN PLACE FOR AT LEAST 30 DAYS.
   c. NO PIPE SHALL EXCEED A DEFLECTION OF 5 PERCENT. IF DEFLECTION EXCEEDS 5 PERCENT, REPLACEMENT SHALL BE ACCOMPLISHED AS PER APPROVED DETAILS AND SPECIFICATIONS, AND THE DEFLECTION TEST RE–PERFORMED.
   d. THE RIGID BALL OR MANDREL USED FOR THE DEFLECTION TEST SHALL HAVE A DIAMETER OF NOT LESS THAN 95 PERCENT OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE (DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION OR APPENDIX OF THE CUT SHEET SUPPLIED BY THE PIPE MANUFACTURER). THE DEFLECTION TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
2. HYDROSTATIC TEST
   a. AN EXFILTRATION (OR INFILTRATION TEST DEPENDING ON LOCATION OF THE GROUNDWATER TABLE) SHALL BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET (600 mm.) IN CONFORMANCE WITH THE LATEST 10–STATE (G.L.U.M.R.B) STANDARDS.
   b. THE SYSTEM OPENINGS SHALL BE CLOSED, FILLED WITH WATER, AIR PURGED, THEN REFILLED WITH WATER. FOLLOWING REFILL THE WATER SUPPLY SHALL BE DISCONNECTED AND THE SYSTEM JOINTS INSPECTED FOR LEAKS.
   c. MAXIMUM ALLOWABLE LEAKAGE IS 100 GALLONS PER INCH OF NOMINAL PIPE SIZE PER MILE OF PIPE PER 24–HOUR DAY (9.2 LITRES PER MILLIMETER OF NOMINAL PIPE SIZE PER KILOMETER OF PIPE PER 24–HOUR DAY).
   d. DUCTILE IRON PIPING SHALL BE TESTED IN CONFORMANCE WITH AWWA C600, "HYDROSTATIC TESTING" SECTION USING A TEST PRESSURE OF AT LEAST 10 PSIg (69 kPa).
3. AIR TEST
   a. AS A MINIMUM, THE AIR TEST SHALL CONFORM TO THE LATEST ASTM C–828 FOR CLAY PIPE, THE LATEST ASTM C 924 FOR CONCRETE PIPE, THE LATEST ASTM F–1417 FOR PLASTIC PIPE, OR FOR OTHER MATERIALS AS DIRECTED BY THE REGULATORY AGENCY.
   b. AIR TESTING OF ALL NEW CONCRETE MANHOLES SHALL CONFORM TO THE LATEST ASTM C–1244.

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
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1880 EGGERT ROAD, AMHERST, NY 14226

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2	ISSUED FOR CLIENT REVIEW	1/3/25

SANITARY DETAILS

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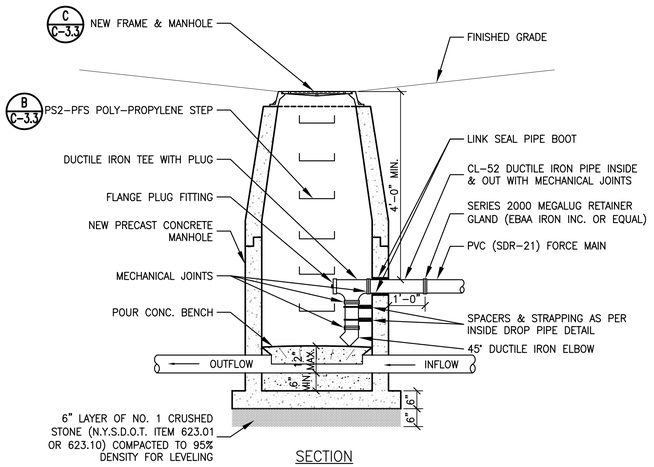
CHECKED BY: TS
JOB # 23–194A

SHEET C–3.2



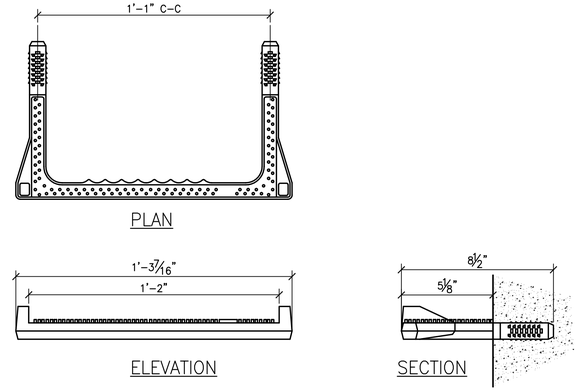
SECTION

FORCE MAIN – MANHOLE CONNECTION DETAIL (A)

SCALE : 1/2" = 1'-0"

NOTES:

1. MANHOLE STEPS SHALL BE STEEL REINFORCED COPOLYMER POLYPROPYLENE.
2. THE STEPS SHALL BE EMBEDDED INTO THE WALLS OF THE CONCRETE MANHOLE BARREL WHILE IT IS BEING CAST, OR ELSE SECURELY GROUTED INTO PLACE AFTER CASTING.
3. USE KISTNER PS2-PFS MANHOLE STEP OR APPROVED EQUAL.
4. COPOLYMER POLYPROPYLENE SHALL COMPLY WITH THE LATEST A.S.T.M. 2146-82, TYPE II, GRADE 43758.
5. STEEL: DEFORMED 1/2" REINFORCED BAR GRADE 60-60 K.S.I. (A.S.T.M. A615).
6. DESIGN LOADING: VERTICAL LOAD: 800 lbs. MINIMUM. PULLOUT: 1,500 lbs. MINIMUM. IMPACT: 300 FT.-lbs PER MINUTE.
7. ALL STAIRS SHALL MEET OR EXCEED THE LATEST A.S.T.M. C478-85A, C497-85, O.S.H.A. DEC. '84, APRIL '86, N.Y.S.D.O.T. APPROVED, N.Y.S.O.G.S. APPROVED.



MANHOLE STEP DETAIL (B)

SCALE : 3" = 1'-0"

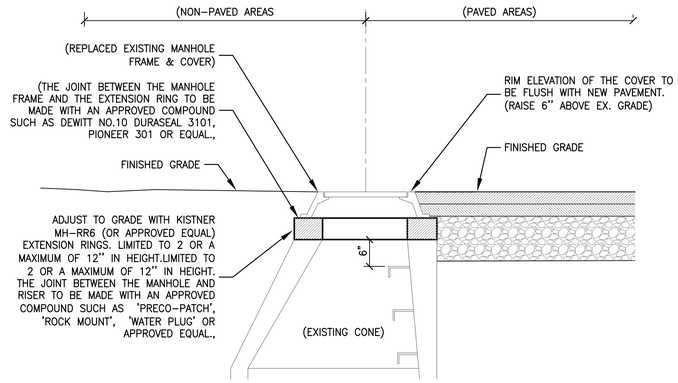
PIPE SIZE	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"
6" THRU 18"	24"	22-1/4"	34-21/32"
OVER 18"	32"	30"	46"

STANDARD FRAME AND COVER NOTES

1. MATERIAL A.S.T.M. A48 CLASS 30B CAST IRON.
2. UNIT MUST WITHSTAND H-20 WHEEL LOADING.
3. ALL DIMENSIONS ARE TO BE CONSIDERED MINIMUM WITH THE EXCEPTION OF THE COVER, WHICH MUST CONFORM EXACTLY TO MAINTAIN INTERCHANGEABILITY WITHIN THE COUNTY.
4. FRAMES AND COVERS SHALL HAVE MACHINED BEARING SURFACES.
5. LOCKING DEVICE MUST BE SITUATED TO ALLOW EASY REMOVAL OF COVER.
6. FRAMES AND COVERS SHALL BE GAS TIGHT AS PER SECT. 708.3.6 OF THE NYS PLUMBING CODE.

SANITARY MANHOLE FRAME & COVER DETAIL (C)

SCALE : 1" = 1'-0"



SECTION

MANHOLE EXTENSION DETAIL (D)

SCALE 3/4" = 1'-0"

FOR OFFICIAL TOWN OF AMHERST USE

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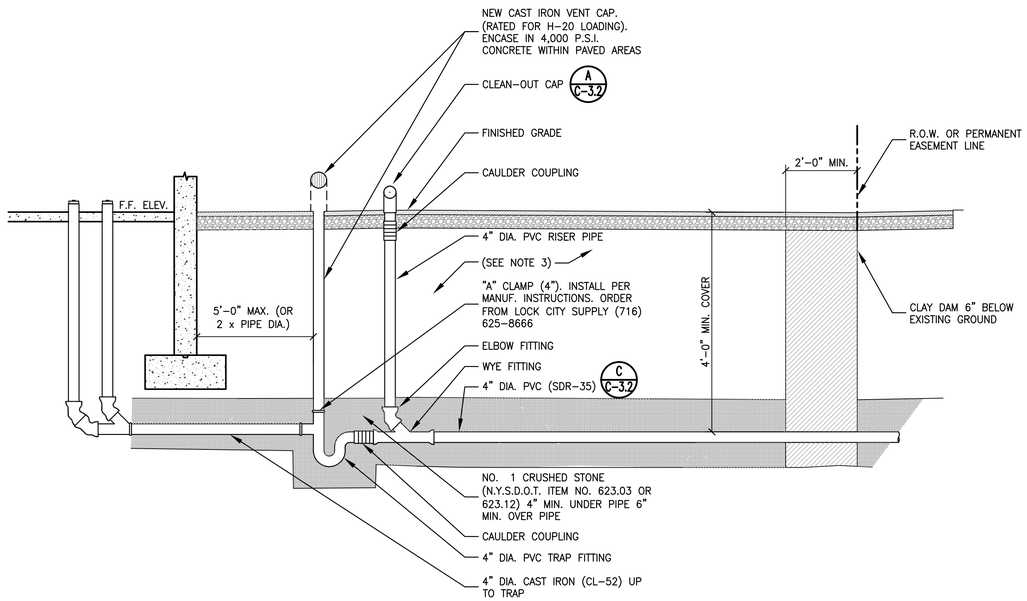
SHEET
C-3.3



PROFILE

SANITARY SEWER LATERAL DETAIL (A)

SCALE : 1/2" = 1'-0"

NOTES:

1. THE SERVICE LATERAL MUST BE INSTALLED A MINIMUM OF 10" ABOVE THE BASEMENT FLOOR, (IF BUILDING CONTAINS A BASEMENT). WHERE LOCAL BUILDING ORDINANCES REQUIRE A GREATER DISTANCE, THE CONTRACTORS ARE TO COMPLY WITH THE MORE STRINGENT.
2. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST A.S.T.M. SPECIFICATION D-3033/D-3034. CAST IRON PIPE MATERIAL SHALL BE EXTRA HEAVY CAST IRON MEETING THE REQUIREMENTS OF A.S.T.M. A74-42.
3. SELECT BACKFILL (TYPE 2 SUBBASE COURSE) REQUIRED UNDER PAVED AREAS.
4. CONCRETE ENCASEMENT IS REQUIRED FOR SEWERS WITH LESS THAN 4 FEET OF COVER UNDER PAVED AREAS.
5. BEDDING MATERIAL AND MATERIAL AROUND PIPE ("NO. 1 CRUSHED STONE") SHALL CONFORM TO THE GRADATION IN N.Y.S.D.O.T. TABLE 703-4, SIZE DESIGNATION 1, MATERIAL DESIGNATION 702-0201. OPTIONAL: PIPE BEDDING MATERIAL SHALL CONFORM TO CLASS I, II, OR III AS PER ASTM D 2321.
6. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.

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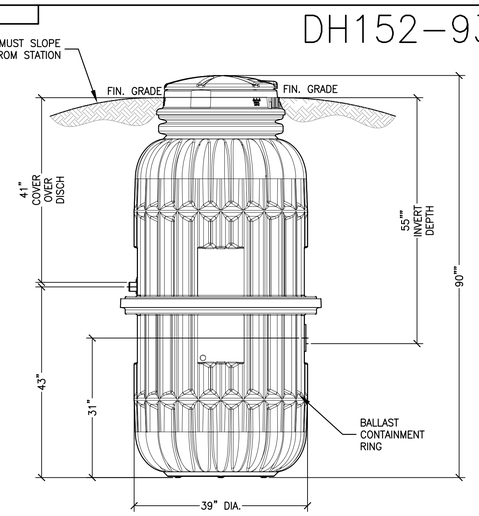

CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS FOR DETAILS
NOTE: DIMENSIONS ARE FOR REFERENCE ONLY
DISCHARGE: 1-1/4" FEMALE PIPE THREAD
INLET: EPDM GROMMET FOR 4" DWV PIPE (STANDARD)

JVL	JS	6/26/2024	JJ	1:6
INIT BY	CHK'D	DATE	ISSUE	SCALE

e one
SEWER SYSTEMS

MODEL DH152-93

NA0052P04

GRINDER PUMP DETAIL (B)

SCALE :3/4" = 1'-0"

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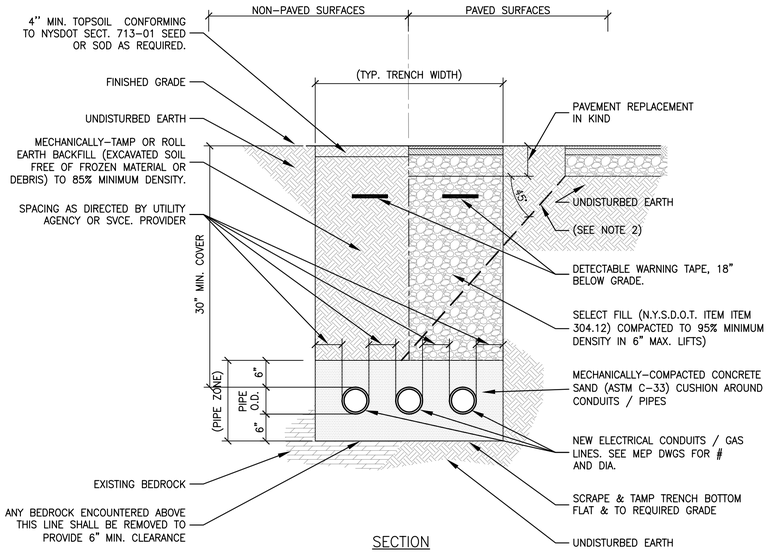


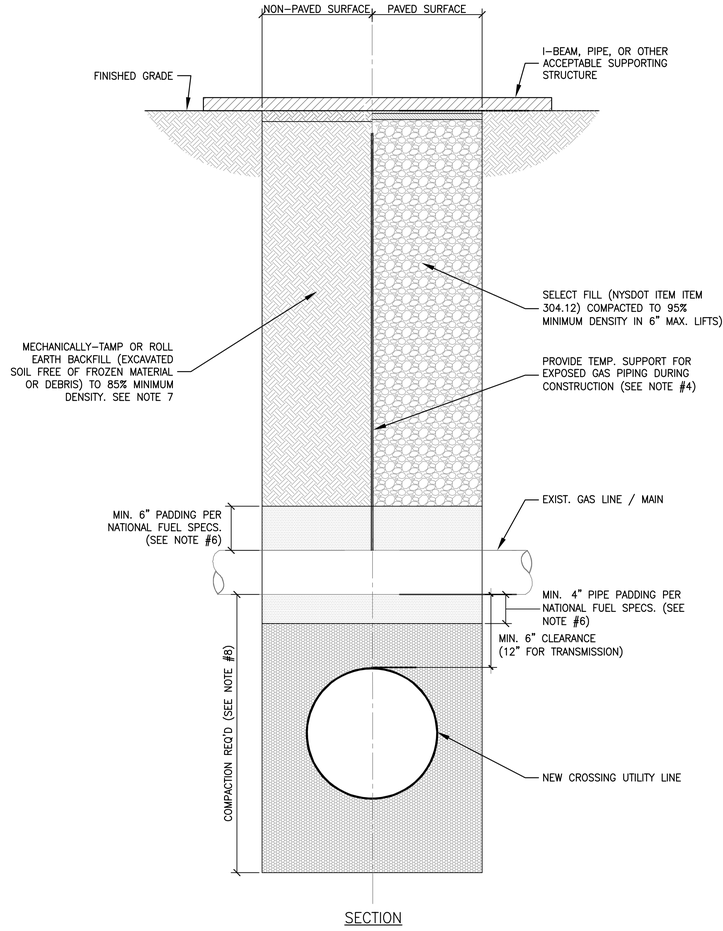
SECTION

UTILITY TRENCH DETAIL (A)

SCALE : 3/4" = 1'-0"

NOTES:

1. THE DESIGN ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OF TRENCH SHEETING OR SHORING REQUIRED AS PER THE LATEST O.S.H.A. STANDARDS, OR FOR WORKER SAFETY AND PROTECTION TRENCH AREAS. THE OWNER'S ON-SITE GEOTECHNICAL ENGINEER SHALL DESIGN, OBSERVE THE INSTALLATION, AND APPROVE THE TRENCH SHIELDING DURING TRENCH OPERATIONS.
2. SELECT FILL (N.Y.S.D.O.T. ITEM 304.12) IS REQUIRED FOR FULL DEPTH UNDER DRIVEWAYS, ROAD CROSSINGS, AND IF THE 45° LINE SHOWN ABOVE INTERCEPTS THE TRENCH ABOVE THE PIPE ZONE.
3. IF SOFT MATERIALS OF POOR LOAD-BEARING QUALITY ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY EXCAVATING A MINIMUM DEPTH EQUAL TO TWO PIPE DIAMETERS AND BACKFILLING UP TO THE PIPE INVERT WITH PIPE BEDDING AND COMPACTING TO 95% DENSITY.



SECTION

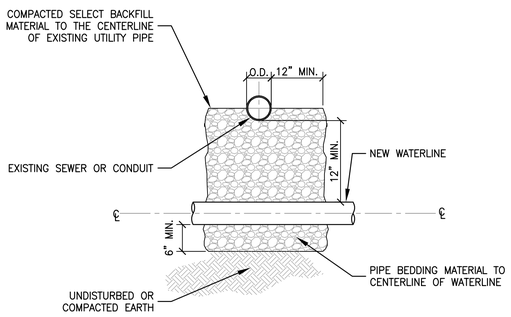
GAS LINE CROSSING DETAIL (B)

SCALE : 3/4" = 1'-0"

DETAIL FURNISHED BY NATIONAL FUEL

NOTES

1. PRIOR TO ANY EXCAVATION WORK, DAMAGE PREVENTION LAWS REQUIRE PERSONS TO MAKE CONTACT WITH THE APPROPRIATE ONE-CALL SYSTEM BY CALLING 811 OR IN NEW YORK, 1-800-962-7962.
2. IF A NATURAL GAS FACILITY IS DAMAGED RESULTING IN A RELEASE OF NATURAL GAS, IMMEDIATELY CALL 911 AND THE NATIONAL FUEL EMERGENCY NUMBER 1-800-444-3130
3. IF A NATURAL GAS LINE IS SCRATCHED, GOUGED, DENTED, PULLED, OR BOWED DURING EXCAVATION WORK OR THE PROTECTIVE COATING IS DAMAGED, IMMEDIATELY CALL THE NATIONAL FUEL EMERGENCY NUMBER 1-800-444-3130 TO SET UP A REPAIR OF DAMAGE.
4. NATIONAL FUEL REQUIRES THAT EXCAVATORS SUPPORT EXISTING GAS LINES AND GAS MAINS DURING CONSTRUCTION. THE SUPPORT SHALL BE MAINTAINED THOUGHT CONSTRUCTION AND BACKFILL OPERATIONS IN ORDER TO PROTECT THE EXISTING GAS SERVICES FROM SETTLEMENT AND TRAFFIC LOADS. CONTACT NATIONAL FUEL FOR SUPPORT DETAILS AND RECOMMENDATION AND FOR INSPECTION WHERE EXISTING GAS PIPING WILL BE EXPOSED FOR A LENGTH OF 15 FEET OR GREATER, OR WHEREVER A GAS PIPE COUPLING OR FITTING IS EXPOSED.
5. UNDERGROUND UTILITIES AND OTHER STRUCTURES PLACE NEAR NATIONAL FUEL GAS SERVICE LINES OR MAINS MUST MAINTAIN A MINIMUM CLEARANCE OF 12 INCHES FOR TRANSMISSION PIPELINE CROSSINGS, AND 6 INCHES FOR DISTRIBUTION MAINS AND SERVICES. ANY METALLIC STRUCTURE PLACED NEAR STEEL PIPELINES REQUIRES THE INSTALLATION OF AN ELECTRIC TEST STATION.
6. BACKFILL MATERIAL AROUND NATIONAL FUEL HAS SERVICES SHALL BE CLEAN DIRT FREE OF SHALE OR SHARP STONES, OR ROUND STONES NO LARGER THAN 1 INCH IN DIAMETER. ACCEPTABLE BACKFILL MATERIALS ARE SAND, LIMESTONE SCREENINGS ALL PASSING THE NO. 40 AND NO. 200 SIEVE, A 50% BLEND OF NO 1A GRAVEL AND SAND, OR NO 1A ROUND GRAVEL.
7. FILL MATERIAL BEYOND THE SELECT BACKFILL SHALL BE FREE OF LOGS, CINDERS, STUMPS, SKIDS, BRUSH, OR ROCKS LARGER THAN 12 INCHES.
8. BACKFILL MATERIAL BENEATH AND AROUND ANY UNDERGROUND GAS FACILITY SHALL BE PROPERLY COMPACTED AS SHOWN ON THE ADJACENT DETAIL.
9. HEAVY LOADS AND EXCESSIVE FORCES SHALL NOT BE IMPOSED ON GAS SERVICE LINES AT ANY TIME DURING EXCAVATION, CONSTRUCTION, OR BACKFILLING OPERATIONS.
10. #10 OR #12 LOCATING WIRE IS BURIED ALONG THE SIDE OF MOST PLASTIC GAS MAINS AND SERVICE LINES. HEAVIER CABLES (PART OF CATHODIC PROTECTION SYSTEMS) MAY ALSO BE FOND NEAR SOME STEEL PIPE FACILITIES. IF ANY WIRE OR CABLE IS DAMAGED IT MUST BE IMMEDIATELY REPORTED TO NATIONAL FUEL.



SECTION

PIPE CROSSING DETAILS (C)

SCALE : 3/4" = 1'-0"

NOTES:

1. ALL EXISTING UTILITIES MUST BE SUPPORTED DURING CONSTRUCTION OF THE NEW FIRE LINE. COST SHALL BE INCLUDED IN PIPE PRICE.
2. WHEN CROSSING A SEWER LINE WITH A NEW WATERLINE, ONE FULL PIPE LENGTH (18 FT. MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE PIPE LINE SHALL BE PLACED SO THAT BOTH JOINTS ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.

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SHEET C-3.5

PLANT LIST: NEW PLANT MATERIAL

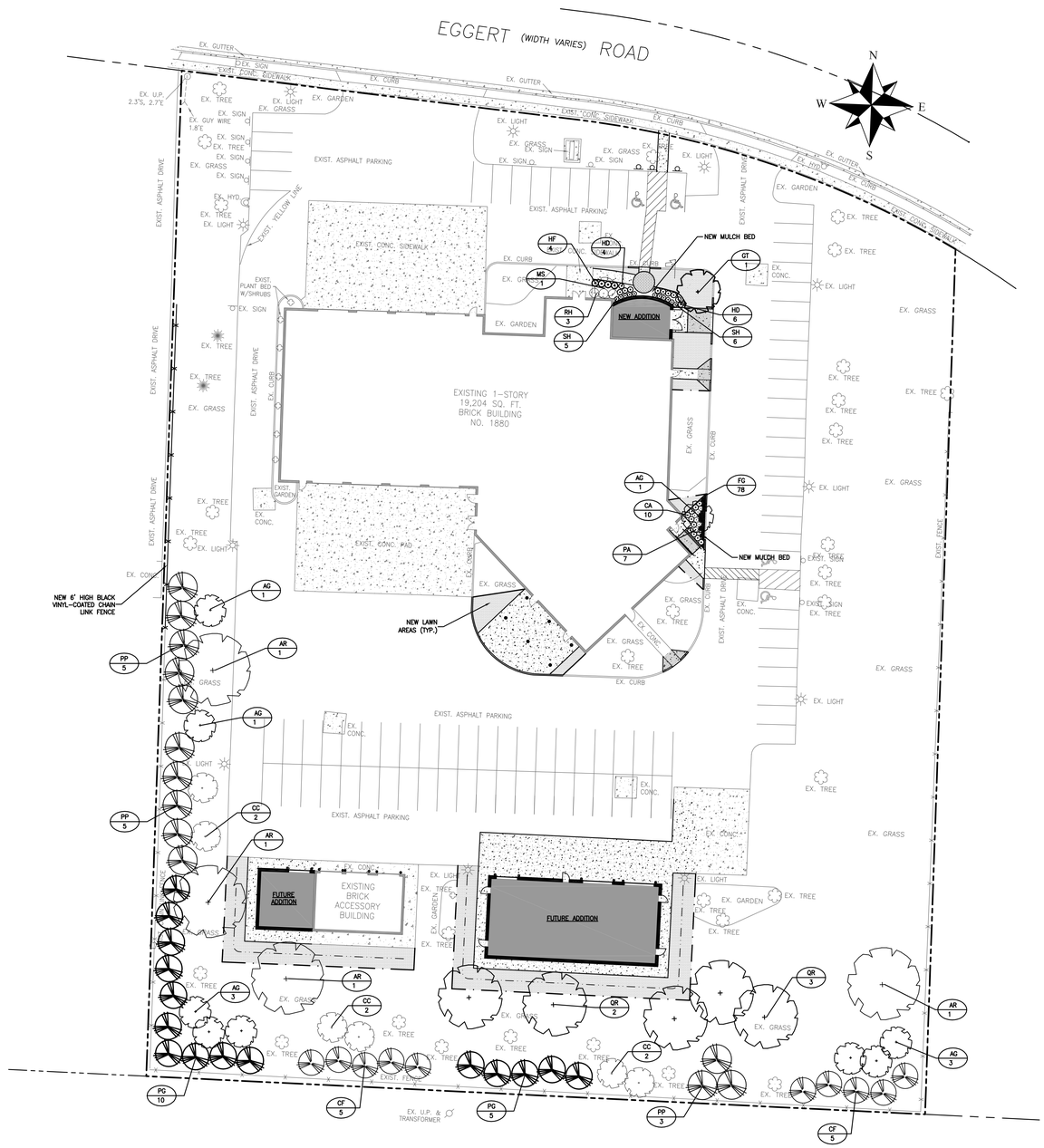
KEY	NO.	BOTANICAL NAME	COMMON NAME	SIZE	CONDIT.	REMARKS
TREES						
AR	4	ACER RUBRUM 'SUN VALLEY'	SUN VALLEY RED MAPLE	2½" TO 3" CAL.	B&B	SEEDLESS. 40' HT. 35' WIDTH
GT	1	GLEDITSIA TRIACANTHOS INERMIS 'DRAVES'	STREETKEEPER HONEYLOCUST	2½" TO 3" CAL.	B&B	35' HT. 20' WIDTH
QR	5	QUERCUS RUBRA	RED OAK	2½" TO 3" CAL.	B&B	75' HT. 60' WIDTH
CF	10	ABIES CONCOLOR	CONCOLOR FIR	5 TO 6 FT. HT.	B&B	FULL TO GROUND
PG	15	PICEA GLAUCA	WHITE SPRUCE	5 TO 6 FT. HT.	B&B	FULL TO GROUND
PP	13	PICEA PUNGENS GLAUCA	COLORADO BLUE SPRUCE	5 TO 6 FT. HT.	B&B	FULL TO GROUND
AG	9	AMELANCHIER X GRANDIFLORA 'AUTMUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	6 TO 7 FT. HT. ⚠	B&B	CLUMP FORM. MIN. 3 MAJOR STEMS. 20' HT. 15' WIDTH
CC	6	CERCIS CANADENSIS 'MERLOT'	MERLOT EASTERN REDBUD	1¾" TO 2" CAL.	B&B	12' HT. 12' WIDTH
MS	1	MAGNOLIA STELLATA 'ROYAL STAR'	ROYAL STAR MAGNOLIA	1¾" TO 2" CAL.	B&B	15' HT. 10' WIDTH. WHITE FLOWERS
SHRUBS						
RH	3	RHODODENDRON 'PJM'	PJM RHODODENDRON	24" HIGH MIN. ⚠	FULL SHADE	NO. 5 CONT.; GROWS 5-6 FEET HIGH AND WIDE
SH	11	SARCOCOCCA HOOKERIANA HUMILIS 'PURPLEJ1'	SWEET BOX	24" HIGH MIN.	FULL SHADE	NO. 3 CONT.; GROWS 1½-2½ FT. HIGH, 2-3 FT WIDE; FULL SHADE
PERENNIALS / ORNAMENTAL GRASSES						
CA	10	CALAMAGROSTIS X ACUTIFOLIA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#2 CONT.	POTTED	5' HT. 3' WIDTH
FG	78	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE GRASS	#1 CONT.	POTTED	10" HT. 10" WIDTH
HF	4	HOSTA X 'FRAGRANT BLUE'	FRAGRANT BLUE HOSTA	#2 CONT. SELECT	POTTED	2' HT. 3' WIDTH. BLUE FOLIAGE. SHADE TOLERANT
HD	10	HOSTA 'DANCING QUEEN'	DANCING QUEEN HOSTA	#2 CONT. SELECT	POTTED	1-½' HT. 2-½' WIDTH. YELLOW FOLIAGE. SHADE TOLERANT
PA	14	PENNISETUM ALOPECUROIDES 'HAMELN'	DWARF FOUNTAIN GRASS	#2 CONT.	POTTED	3' HT. 2' WIDTH

NOTE: ⚠

ALL REASONABLE MEASURES SHALL BE TAKEN TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING, BUT NOT LIMITED TO, RETAINING WALL WHCIH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS REQUIRED BY §203-7-2-3 (b) (3) OF TOWN CODE

LEGEND

- EXISTING TREE OR SHRUB TO REMAIN
- EXISTING TREE OR SHRUB TO BE REMOVED
- NEW TREE OR SHRUB
- EXISTING LIGHT FIXTURE
- EXISTING SIGN
- NEW SIGN
- EXISTING UTILITY POLE
- EXISTING FENCE
- NEW FENCE
- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB
- SITE PROPERTY LINE
- ADJACENT PROPERTY LINE
- CENTERLINE OF ROAD
- NEW CONCRETE AREAS
- EXISTING CONCRETE AREAS
- NEW LAWN AREAS



SITE LANDSCAPE PLAN

SCALE : 1"= 30'-0"

0 30 60 120

FOR OFFICIAL TOWN OF AMHERST USE

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

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SITE LANDSCAPE PLAN

studio T3 Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET C-4.0

DEMOLITION NOTES

1. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING ALL NECESSARY FEES AND OBTAINING ALL NECESSARY PERMITS FOR CLEARING, SOIL EROSION PROTECTION, AND DISPOSING OF DEBRIS FROM SITE.

2. THE CONTRACTOR SHALL COORDINATE THE REMOVAL, RELOCATION, OR RE-ROUTING OF ANY UTILITIES WITH EACH RESPECTIVE UTILITY COMPANY. NOTIFY UTILITY COMPANIES OR AGENCIES AT LEAST 72 HOURS PRIOR TO THE START OF WORK.

3. THE CONTRACTOR SHALL MAINTAIN ACCESSIBLE PASSAGEWAYS FOR TRAFFIC AND PEDESTRIANS TO EXISTING ADJACENT RESDIENCES AND BUSINESSES WHICH WILL REMAIN IN OPERATION THROUGHOUT THE DURATION OF THE CONSTRUCTION.

4. THE CONTRACTOR SHALL FOLLOW ALL SOIL PREPARATION AND FOUNDATION CONSTRUCTION RECOMMENDATIONS AS STATED IN THE GEOTECHNICAL ENGINEERING REPORT BY BUFFALO DRILLING DATED 1994.

5. EXISTING PAVEMENT TO BE SAW-CUT AND REMOVED SHALL BE SAW-CUT ONLY TO THE DEPTH OF THE PAVEMENT AND NOT DEEPER TO AVOID INTERFERENCE WITH EXISTING UNDERGROUND UTILITIES. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR ANY UTILITIES NOT SHOWN ON THE SURVEY OR ANY ACCIDENTAL RUPTURES DURING EXCAVATION OR CONSTRUCTION. THE DESIGN ENGINEER (STUDIO T3) AND THE RESPECTIVE UTILITY COMPANIES SHALL BE IMMEDIATELY NOTIFIED BY THE INSTALLATION CONTRACTOR UPON DISCOVERY OF ANY SUCH ABOVEGROUND OR UNDERGROUND UTILITIES NOT SHOWN ON THE SURVEY. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED UTILITIES ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.

6. THE DESIGN ENGINEER (STUDIO T3) SHALL BE IMMEDIATELY CONTACTED UPON DISCOVERY OF ANY ABOVEGROUND OR BELOW GROUND OBJECTS NOT SHOWN ON THE BACKGROUND SURVEY THAT ARE UNCOVERED DURING EXCAVATION OR CONSTRUCTION (BUILDING FOUNDATIONS, BURIED VAULTS, TREES, SIDEWALKS, PAVEMENT, RAILINGS, SIGNS, STOCKPILES, STUMPS, OR SIMILAR) WHICH WILL INTERFERE OR CONFLICT WITH ANY PROPOSED WORK SHOWN ON THESE PLANS. WORK SHALL BE IMMEDIATELY SUSPENDED AND NOT COMMENCE UNTIL SUCH DISCOVERED OBJECTS ARE IDENTIFIED AND THE DESIGN ENGINEER (STUDIO T3) ISSUES EITHER A WRITTEN APPROVAL OR A SIGNED REVISED PLAN.

7. THE CONTRACTOR SHALL REMOVE ALL VISIBLE AND PARTIALLY BURIED DEBRIS PILES FROM AREAS TO BE DEVELOPED OR GRADED AND DISPOSE OF AT AN APPROPRIATE OFF-SITE LOCATION IN COMPLIANCE WITH AUTHORITIES HAVING JURISDICTION.

8. ANY UTILITY LINES NO LONGER IN USE (EITHER SHOWN ON THIS SHEET OR DISCOVERED IN THE FIELD) SHALL BE COMPLETELY REMOVED IF THEY ARE IN CONFLICT WITH ANY NEW UTILITY OR STRUCTURE.

9. ANY CAVITIES OR TRENCHES REMAINING FROM EXCAVATED FOOTINGS, FOUNDATION WALLS, PIPELINES, BASEMENTS, AND UNDERGROUND TANKS SHALL BE BACKFILLED WITH FLOWABLE FILL TO THE FROST LINE, AND TYPE 2 CRUSHER RUN STONE (NYSDOT ITEM 304.12) ABOVE THE FROST LINE, COMPACTED TO 95% DENSITY (IN 6" MAXIMUM LIFTS).

10. PROVIDE TEMPORARY SNOW-FENCING AROUND ALL EXISTING TREES, SHRUBS, OR LANDSCAPING TO REMAIN.

11. ALL LITTER AND DEBRIS SHALL BE SWEPT UP AND REMOVED FROM PAVED AREAS RATHER THAN HOSING INTO STORM DRAINS OR SWALES.

12. WASTE FROM DEMOLITION ACTIVITIES SHALL BE CONTAINED TO PREVENT RELEASE OF DUST AND DEBRIS BEFORE THE WASTE IS REMOVED FROM THE SITE. COLLECTED WASTE ON SITE SHALL ALSO BE STORED SUCH THAT IT PREVENTS THE RELEASE OF DUST AND DEBRIS.

13. NONE OF THE FOLLOWING SHALL BE EITHER RELEASED ON SITE, SPILLED, OR DISCHARGED TO GROUNDWATER, STREAMS, OR STORM SEWER SYSTEMS ON SITE: WASTEWATER WASHOUT FROM CONCRETE; WASTEWATER WASHOUT FROM CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS/FLUIDS; FUELS, OILS, AND OTHER VEHICLE FLUIDS; SOAPS, SOLVENTS, DETERGENTS, OR WASHWATER FROM CONSTRUCTION EQUIPMENT OR EXTERNAL BUILDINGS; TOXIC OR HAZARDOUS SUBSTANCE; SANITARY SEWAGE WASTEWATER.

14. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR NOTIFYING UFPO FOR UNDERGROUND UTILITY LOCATION PRIOR TO EXCAVATION OR CONSTRUCTION. UNDERGROUND UTILITY LOCATION DETERMINATION BY HAND-DIGGING OR VACUUM EXCAVATION MAY BE NECESSARY IF DIRECTED BY RESPECTIVE UTILITY SERVICE AGENCIES. IF NECESSARY AN UNDERGROUND UTILITY SURVEY SHALL BE DONE PRIOR TO EXCAVATION AND CONSTRUCTION IN ORDER TO ELIMINATE DELAYS RESULTING FROM INTERFERENCE WITH UN-DOCUMENTED OR UN-LOCATED BURIED UTILITIES ENCOUNTERED.

15. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND COMPLIANCE WITH THE LATEST OSHA STANDARDS OR INDUSTRIAL CODE RULE 57 DURING CONSTRUCTION.

16. THE DESIGN ENGINEER (STUDIO T3) IS NOT RESPONSIBLE FOR THE REMEDIATION OF ASBESTOS, LEAD, MERCURY, MOLD, RADON, OR RODENT ABATEMENT PRIOR TO DEMOLITION OF EXISTING BUILDINGS.

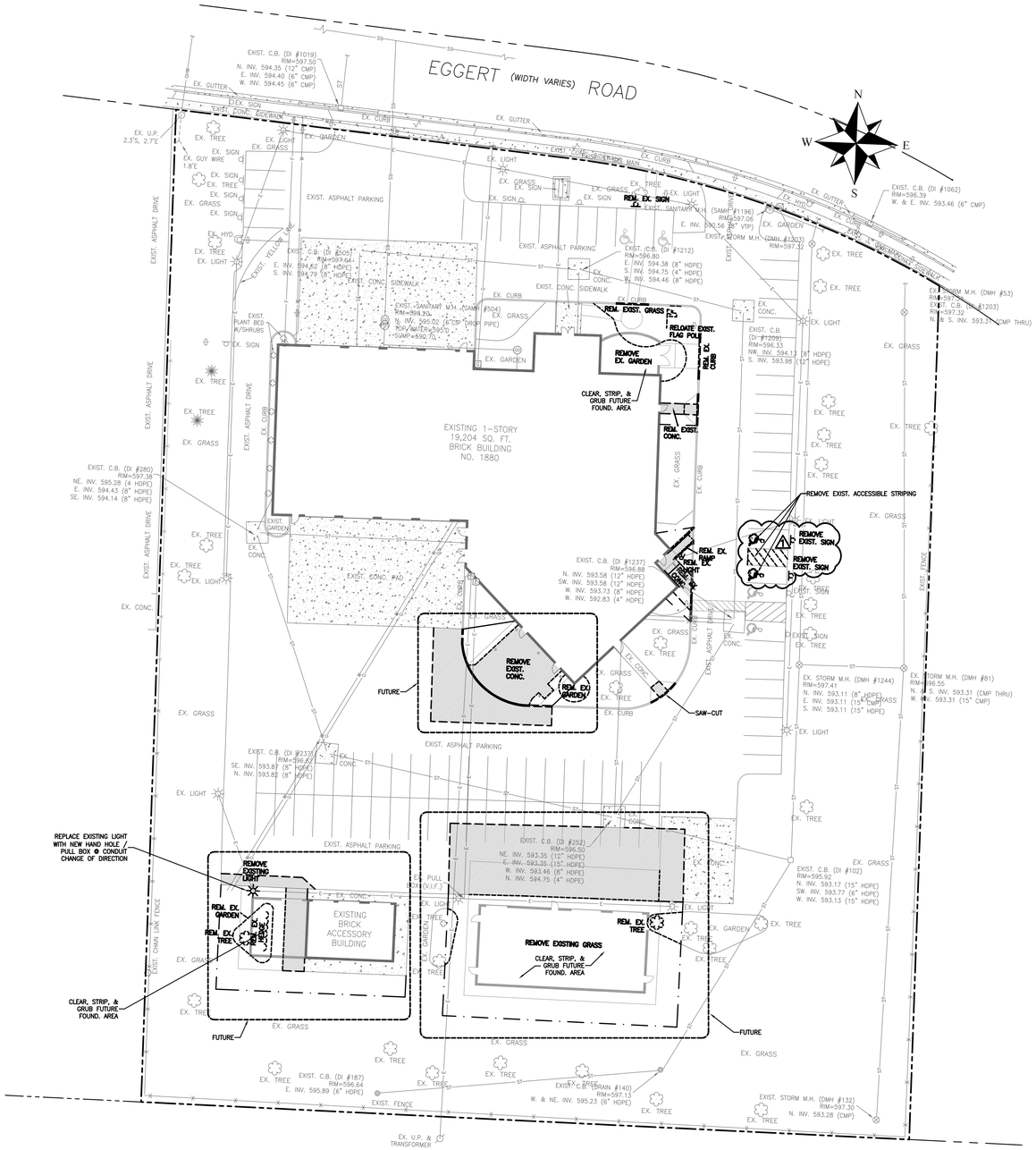
17. EXCAVATION AND CONSTRUCTION OPERATIONS SHOULD BE SCHEDULED TO MINIMIZE THE AMOUNT OF AREA DISTURBED AT ONE TIME. BUFFER AREAS OF EXISTING VEGETATION TO BE REMOVED SHOULD BE LEFT IN PLACE AS LONG AS POSSIBLE WHERE PRACTICAL.

18. TEMPORARY SHORING AND UNDERPINNING COSTS FOR ALL EXISTING ADJACENT BUILDING FOUNDATIONS, WALL FOUNDATIONS, DECK FOUNDATIONS, OR FENCE FOOTINGS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

19. ANY DAMAGE TO EXISTING BUILDINGS, PAVEMENT, FOUNDATIONS, WALLS, FENCES, LANDSCAPING, OR ABOVEGROUND OR BELOWGROUND UTILITIES EITHER OUTSIDE THE PROPERTY OR OUTSIDE THE LIMIT OF WORK / RE-GRADING LINE SHALL BE REPLACED IN KIND.

20. ANY DEVIATION FROM ANY PLANS IN THIS DRAWING SET SHALL REQUIRE APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) AND THE TOWN OF AMHERST PLANNING AND BUILDING DEPARTMENTS, AS WELL AS THE APPROPRIATE UTILITY COMPANIES AND SERVICE PROVIDERS. ANY AND ALL CHANGES MADE WITHOUT NOTIFICATION OR APPROVAL OF THE DESIGN ENGINEER (STUDIO T3) SHALL BE CONSIDERED UNAUTHORIZED AND THE DESIGN ENGINEER (STUDIO T3) SHALL NOT BE LIABLE FOR ANY DAMAGES, DELAYS, ADDITIONAL COSTS INCURRED, OR ANY OTHER CONSEQUENCES ARISING FROM SUCH CHANGES.

21. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.



SITE DEMOLITION PLAN

SCALE : 1"= 30'-0"

0 30 60 120

LEGEND

- PROPERTY LINE
- EX. EDGE OF PVMNT. TO REMAIN
- EX. EDGE OF PVMNT. TO BE REMOVED
- NEW EDGE OF PVMNT.
- EXISTING CURB TO REMAIN
- EXISTING CURB TO BE REMOVED
- NEW CURB
- SAW-CUT LINE
- EXISTING PAVEMENT AREAS TO BE REMOVED
- EXISTING TREE OR SHRUB TO REMAIN
- EXISTING TREE OR SHRUB TO BE REMOVED

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SITE DEMOLITION PLAN

studio T3
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Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET C-5.0

EROSION CONTROL NOTES:

1. GRADING, TOPSOILING, AND STABILIZING SECTIONS SHALL BE COMPLETED BEFORE EXCAVATION STARTS ON OTHER SECTIONS, IN ORDER NOT TO LEAVE ANY AREAS EXPOSED TO WIND AND RAIN EROSION FOR LONGER DURATION THAN NECESSARY.
2. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER ON A DAILY BASIS. ABSOLUTELY NO CONSTRUCTION MATERIALS SHALL BE BURIED ON SITE.
3. ALL VEHICLES ON SITE SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE FOR THE ENTIRE DURATION OF CONSTRUCTION. ANY PETROLEUM PRODUCTS USED SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. SPILL KITS SHALL BE INCLUDED WITH ANY FUELING SOURCES AND MAINTENANCE ACTIVITIES AS NECESSARY.
4. ALL PAINT CONTAINERS OR CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF IN CONFORMANCE TO MANUFACTURER'S INSTRUCTIONS.
5. WHEN ACTIVITIES TEMPORARILY CEASE DURING CONSTRUCTION, SOIL STOCKPILES AND ANY EXPOSED SOILS SHALL BE STABILIZED BY MULCH OR COVERED WITH TARPS NO MORE THAN 14 DAYS AFTER CONSTRUCTION ACTIVITY HAS CEASED.
6. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES SHOWN ON THIS PLAN ON A DAILY BASIS AND AFTER RAIN STORMS. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL EROSION CONTROL DEVICES AS SPECIFIED IN THIS PLAN AND ON THE EROSION CONTROL DETAILS.
7. TOPSOIL STOCKPILES SHALL NOT BLOCK DRAINAGE FLOWS DURING CONSTRUCTION. STOCKPILES SHALL NOT BE LOCATED NEAR SLOPES, ROADWAYS, SWALES, DRAINAGE INLETS, OR BODIES OF WATER. THE BASE OF ALL STOCKPILES SHALL BE PROTECTED WITH SILT FENCING, OR ELSE THE ENTIRE STOCKPILE SHALL BE COVERED WITH TARPS AND SANDBAGS.
8. THE CONTRACTOR SHALL PREVENT TRACKING OR FLOWING OF MUD INTO STREETS OR AREAS OUTSIDE OF CONSTRUCTION LOCATION.
9. ALL WATER PUMPED FROM EXCAVATIONS SHOULD BE DIRECTED TO A SEDIMENT TRAP, SEDIMENT BASIN, OR FILTRATION DEVICE SHOWN ON THE EROSION CONTROL DETAILS.
10. ALL CATCH BASIN SUMPS SHALL BE CLEANED OUT AND SOIL SEDIMENTS SHALL BE DISPOSED OF AT AN APPROPRIATE OFFSITE LOCATION.
11. ALL CHLORINATED WATER USED FOR FLUSHING WATERLINES SHALL BE DISCHARGED TO THE SANITARY SEWER AND NEVER TO ANY STORM SEWER, CATCH BASIN, OR SWALE.
12. ALL PORTABLE TOILETS SHALL BE LOCATED AWAY FROM GUTTERS, CATCH BASINS, STORM SEWERS, AND WATERWAYS. PORTABLE TOILETS SHALL BE PLACED ON A FLAT, STABLE GROUND SURFACE NOT PRONE TO FLOODING. ALL PORTABLE TOILETS SHALL BE ANCHORED TO PREVENT BLOWING OVER DURING WINDSTORMS.
13. ANY DETERGENTS OR ACID CLEANERS WASHES USED TO CLEAN OR RINSE CONCRETE, STUCCO, MASONRY, ETC. SHALL NEVER BE DISCHARGED TO ANY STORM SEWER, CATCH BASIN, SWALE, OR POND.
14. AVOID STORING PETROLEUM PRODUCTS ON SITE IF POSSIBLE. IF NOT POSSIBLE, STORE AWAY FROM CATCH BASINS OR DRAINAGE WAYS.
15. AVOID ON-SITE STORAGE OF PESTICIDES, FERTILIZERS, AND HERBICIDES. IF UNAVOIDABLE, ALL CHEMICALS SHALL BE STORED IN ORIGINAL PACKAGES IN A SEPARATELY DESIGNATED COVERED CONTAINMENT AREA.
16. USE CLEAN OR RECYCLED WATER WHEN SPRINKLING SOIL FOR DUST CONTROL.
17. TO PROTECT EXISTING LAWN OR VEGETATED AREAS FROM RUTS CAUSED BY CONSTRUCTION VEHICLES, TEMPORARY LAYOUT VEHICLE TRACK PATHS WITH PLYWOOD OR GEORUNNER SURFACE PROTECTION INSTALLED PER MANUFACTURER'S INSTRUCTIONS (CALL 800-548-3424 TO ORDER OR DETERMINE NEAREST DISTRIBUTOR).
18. UNDER NO CIRCUMSTANCES SHALL CONCRETE TRUCK WASH WATER BE ALLOWED TO BE DISCHARGED OR DUMPED ANYWHERE ON THE CONSTRUCTION SITE. ALL EXCESS CONCRETE OR WASH WATER SHALL BE DISPOSED AT AN APPROPRIATE OFFSITE LOCATION (SUCH AS A DESIGNATED LANDFILL) AS DIRECTED BY LOCAL AUTHORITIES.
19. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING WITH ANNUAL OR PERENNIAL RYE GRASS AT 30 lbs. PER ACRE, FOLLOWED BY MULCHING WITH STRAW AT A RATE OF 2 TO 2½ TONS PER ACRE.
20. SECURE OPEN BAGS OF CEMENT AND KEEP CEMENT POWDER AWAY FROM STREETS, CATCH BASINS, AND SWALES. PROTECT CONSTRUCTION MATERIALS FROM RAINFALL AND RUNOFF BY STORING UNDER COVER. AVOID STORING MATERIALS NEAR CATCH BASINS, SWALES, OR STORM SEWERS.
21. ANY FERTILIZER SPILLED ONTO IMPERVIOUS SURFACES SUCH AS PARKING LOTS, ROADWAYS, AND SIDEWALKS SHALL BE IMMEDIATELY CONTAINED AND REMOVED, ELSE LEGALLY RE-APPLIED PER THE NOTES IN THE SITE LANDSCAPE PLAN.
22. NONE OF THE FOLLOWING SHALL BE EITHER RELEASED ON SITE, SPILLED, OR DISCHARGED TO GROUNDWATER, STREAMS, OR STORM SEWER SYSTEMS ON SITE: WASTEWATER WASHOUT FROM CONCRETE; WASTEWATER WASHOUT FROM CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS/FLUIDS; FUELS, OILS, AND OTHER VEHICLE FLUIDS; SOAPS, SOLVENTS, DETERGENTS, OR WASHWATER FROM CONSTRUCTION EQUIPMENT OR EXTERNAL BUILDINGS; TOXIC OR HAZARDOUS SUBSTANCE; SANITARY SEWAGE WASTEWATER.
23. ANY DAMAGED PROPERTY WITHIN THE PROJECT SITE OR ADJACENT PROJECT SITES SHALL BE RESTORED IN KIND.
24. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE INSURED AND LICENSED IN THE STATE OF NEW YORK, THE COUNTY OF ERIE, AND THE TOWN OF AMHERST.

EROSION CONTROL SEQUENCE

*** THE SEQUENCE BELOW IS INTENDED TO BE A GENERAL GUIDELINE FOR IMPLEMENTATION OF EROSION AND SEDIMENTATION PREVENTION DEVICES ONLY. SPECIFIC CONSTRUCTION TECHNIQUES, MEANS, METHODS, AND SCHEDULING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND OWNER.

① OBTAIN ALL BUILDING PERMITS, INCLUDING CLEARING, STRIPPING, AND GRUBBING PERMITS.

② OBTAIN A DUMPSTER AND A DEBRIS DISPOSAL PERMIT AS NECESSARY.

③ HOLD PRE-CONSTRUCTION MEETING WITH OWNER'S SITE EROSION CONTROL INSPECTOR.

④ FLAG CLEARING LIMITS AS SHOWN ON THE SITE DEMOLITION PLAN.

⑤ CLEAR, GRUB, AND STRIP THE SITE AS SHOWN ON THE SITE DEMOLITION PLAN. STOCKPILE ALL TOPSOIL AS DIRECTED ON THE EROSION CONTROL PLAN.

⑥ ROUGH GRADE THE ENTIRE SITE. ESTABLISH ANY TEMPORARY STORMWATER DIVERSIONS AS NECESSARY. STABILIZE ALL DISTURBED AREAS AND STOCKPILES WITHIN 14 DAYS OF THE LAST DISTURBANCE ACTIVITY IN EACH AREA.

(C C-5.7) ⑦ INSTALL ALL UTILITIES AND STRUCTURES, INCLUDING CATCH BASINS AND STORM SEWERS AS SHOWN ON THE SITE UTILITY AND DRAINAGE PLANS AND DETAILS. IMMEDIATELY INSTALL TEMPORARY CATCH BASIN INLET PROTECTION WHERE SHOWN ON THE EROSION CONTROL PLAN AS PER THE INSTALLATION INSTRUCTIONS ON THE EROSION CONTROL DETAILS.

⑧ TEMPORARY TRENCH BACKFILL STOCKPILES SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION USING TARPS, IF LEFT FOR LONG PERIODS OF TIME OR DURING RAIN STORMS. MINIMAL DISTURBANCE AROUND TRENCH AREAS SHALL BE MADE TO REMOVE AS LITTLE VEGETATION AS POSSIBLE FROM THE VICINITY OF THE TRENCH.

⑨ INSTALL GRAVEL SUBBASE TO ALL PROPOSED PARKING AND PAVEMENT AREAS AND COMPACT AS SHOWN IN SPECIFICATIONS ON RESPECTIVE DETAILS AS SOON AS POSSIBLE FOLLOWING ROUGH GRADING AND COMPACTION OF SUBGRADE. IMPLEMENT DUST CONTROL MEASURES AS DIRECTED ON THE EROSION CONTROL PLAN NOTES.

⑩ CONSTRUCT ALL BUILDINGS AND ACCESSORY STRUCTURES.

(A C-5.7) ⑪ COMPLETE FINAL GRADING AND TOPSOILING OF ENTIRE SITE. SEED OR HYDRO-SEED WITHIN 24 HOURS AFTER FINAL GRADING AND TOPSOILING. HYDRO-MULCH IMMEDIATELY FOLLOWING SEEDING OR HYDRO-SEEDING.

⑫ REMOVE TEMPORARY PIPE INLET PROTECTION AFTER HYDRO-MULCHING IS COMPLETED.

⑬ INSTALL ALL ASPHALT AND CONCRETE PAVEMENT WHERE SHOWN ON THE SITE LAYOUT AND DIMENSIONAL SITE PLAN AS PER THE SITE DETAILS.

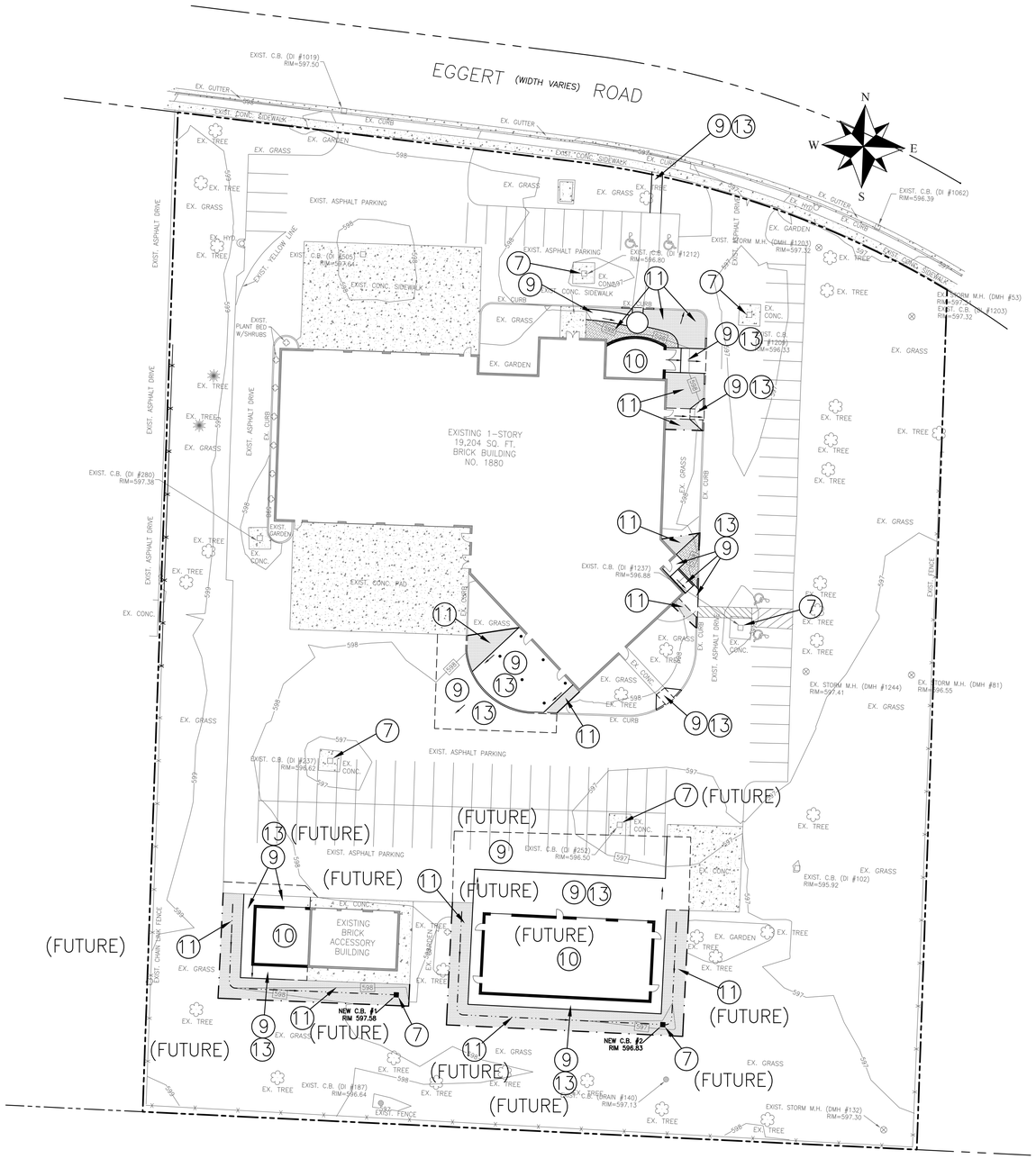
⑭ INSTALL REMAINING LANDSCAPING (SHRUBS, TREES, AND MULCH) WHERE SHOWN ON THE SITE LANDSCAPE PLAN AS PER THE LANDSCAPE DETAILS.

⑮ WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETED AND SITE VEGETATION IS IN PLACE AND STABILIZED, REMOVE AND DISPOSE OF ANY REMAINING TEMPORARY EROSION CONTROL DEVICES AS DIRECTED IN THE MAINTENANCE INSTRUCTIONS ON EACH DEVICE'S RESPECTIVE DETAIL SHOWN ON THE EROSION CONTROL DETAILS.

(B C-5.7) ⑯ CLEAN AND PUMP UNDERGROUND STORMWATER DETENTION SYSTEMS AS DIRECTED BY MANUFACTURER.

LEGEND

- EXISTING EDGE OF PAVEMENT
- NEW EDGE OF PAVEMENT
- EXISTING CURB
- NEW CURB
- PROPERTY / R.O.W. LINES
- ADJACENT PROPERTY LINES
- EXISTING CONTOUR LINES
- 710 — 710 PROPOSED CONTOUR LINES
- ST — ST STORM SEWER
- P EXISTING UTILITY POLE
- EXISTING HYDRANT
- EXISTING CATCH BASIN
- NEW CATCH BASIN
- EXISTING MANHOLE
- NEW LAWN AREAS TO BE SEEDED OR HYDRO-SEEDED THEN HYDRO-MULCHED
- NEW MULCH BED AREAS



EROSION CONTROL PLAN

SCALE : 1"= 30'-0"

0 30 60 120

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EROSION CONTROL PLAN

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CHECKED BY: RMT
JOB # 23-194A

SHEET C-5.1

HDYRO-SEED & HYDRO-MULCH INSTALLATION INSTRUCTIONS:

*** AREAS TO BE HYDRO-SEEDED AND HYDRO-MULCHED WITH HYDROSTRAW ARE SHOWN ON THE EROSION CONTROL PLAN. THE CONTRACTOR SHALL CONTACT HYDROSTRAW (800) 545-1755 TO ORDER, AND FOR A LIST OF CERTIFIED HYDROMULCH APPLICATOR CONTRACTORS.

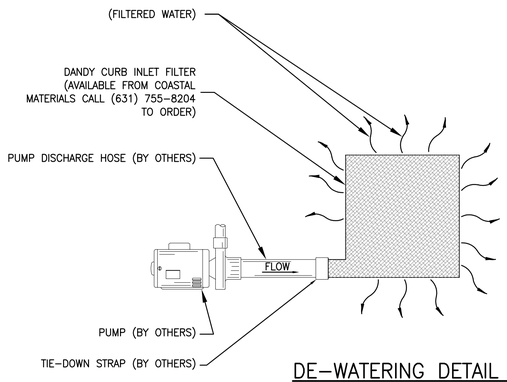
1. TILL AREAS OF INSTALLATION TO A 4 INCH MINIMUM DEPTH, THEN TOPSOIL AREAS OF INSTALLATION TO STABILIZED FINISHED GRADE. ADD LIME AND FERTILIZER TO SOIL (IF REQUIRED) AT 400 lbs PER ACRE 24 HOURS BEFORE TILLING. REMOVE ALL ROCKS, CLODS, VEGETATION, OR OTHER OBSTRUCTIONS SO THAT THE SEED WILL HAVE DIRECT CONTACT WITH THE SOIL SURFACE.
2. TOPSOIL SHALL BE ROUGHENED WITH RAKE, BACK-HOE, OR DISC PRIOR TO HYDRO-SEEDING AND HYDRO-MULCHING. NO HYDRO-SEEDING AND HYDRO-MULCHING SHALL BE APPLIED TO SMOOTH, COMPACTED, OR UN-ROUGHENED TOPSOIL SURFACES.
3. HYDRO-SEED GRASS AS PER SEED VENDOR'S INSTRUCTIONS.
4. APPLY HYDRO-MULCH TO COVER THE GRASS SEED. PER HYDROMULCH SPECIFICATIONS IMMEDIATELY FOLLOWING SEEDING. APPLY AT 2,000 lbs PER ACRE MINIMUM FOR SLOPES 3:1 AND FLATTER. APPLY HYDROSTRAW GUAR PLUS AT 3,000 lbs PER ACRE MINIMUM FOR SLOPES BETWEEN 2:1 AND 3:1. APPLY HYDROSTRAW BONDED FIBER MATRIX AT 4,500 lbs PER ACRE MINIMUM FOR SLOPES BETWEEN 1:1 AND 2:1.
5. HYDROMULCH SHOULD BE APPLIED AT LEAST 8 HOURS PRIOR TO RAINSTORM EVENTS.

HDYRO-SEED & HYDRO-MULCH MAINTENANCE INSTRUCTIONS:

1. THE SLOPE SHALL BE MONITORED DAILY FOR EROSION ESPECIALLY AFTER RAIN STORMS. RE-APPLICATION SHALL BE REQUIRED WHEREVER ACCEPTABLE GERMINATION IS NOT OBTAINED.
2. KEEP HYDRO-SEEDED AND HYDRO-MULCHES AREAS MOIST BY DAILY APPLICATION OF WATER FOR A MINIMUM OF TEN DAYS UNTIL THE SEEDS HAVE GERMINATED, OR AS RECOMMENDED BY THE SEED VENDOR.
3. THE ABOVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE GRASS SHOULD NOT BE MOWED UNTIL IT REACHES AT LEAST 3½ INCHES IN HEIGHT. MOW ONLY THE TOP THIRD OF EACH GRASS BLADE TO ENSURE SURVIVAL.

HYDROMULCH INSTALLATION — A

SCALE : N.T.S.



DE-WATERING DETAIL — B

SCALE :1/2" = 1'-0"

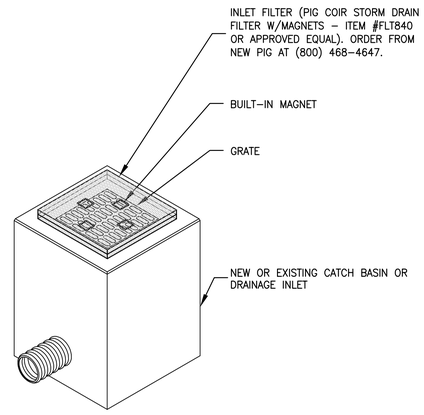
INSTALLATION INSTRUCTIONS:

*****USE THIS DEVICE TO FILTER ANY GROUNDWATER OR RAIN WATER PUMPED FROM TRENCHES OR EXCAVATIONS TO BE DE-WATERED.

1. PLACE EMPTY DANDY BAG OVER THE GRATE AS THE GRATE STANDS ON END.
2. IF USING OPTIONAL OIL ABSORBENTS, PLACE ABSORBENT PILLOW IN POUCH ON BOTTOM OF UNIT AND ATTACH PILLOW TO TETHER LOOP.
3. HOLDING THE LIFTING DEVICE (DO NOT RELY ON LIFTING DEVICE TO SUPPORT ENTIRE WEIGHT OF GRATE), PLACE THE GRATE INTO ITS FRAME.

MAINTENANCE INSTRUCTIONS:

1. REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SURFACE AND VICINITY OF THE UNIT AFTER EACH RAINFALL EVENT.
2. REMOVE ACCUMULATED SEDIMENT WITHIN THE BAG AS NEEDED.
3. IF USING OPTIONAL OIL ABSORBENTS, REMOVE AND REPLACE ABSORBENT PILLOW WHEN NEAR SATURATION.



ISOMETRIC VIEW

INSTALLATION INSTRUCTIONS:

1. PREPARE SURFACE BY SWEEPING AWAY ANY DIRT OR DEBRIS FROM GRATE SURFACE TO ENSURE GOOD CONTACT BETWEEN MAGNETS AND GRATE.
2. CENTER FILTER ON GRATE TO ENSURE FILTER COVERS ALL HOLES IN GRATE AND THAT MAGNETS WILL CONTACT THE GRATE. THERE SHOULD BE APPROXIMATELY 3 INCHES OVERLAP ON EACH SIDE.
3. LOWER FILTER INTO PLACE AND PUSH FILTER WITH HND OR FOOT TO CHECK MAGENTIC CONNECTION. REMOVE, ADJUST, AND RE-SET AS NECESSARY.

MAINTENANCE INSTRUCTIONS:

1. INSPECT MONTHLY OR AFTER EVERY HALF INCH OF RAINFALL.
2. USE A SHOVEL OR BROOM TO REMOVE DIRT AND SEDIMENT FROM AROUND THE EDGE OF THE DRAIN.
3. IN CASE OF FLOODING, OVERFLOW PORT IS PRE-CUT ON 3 SIDES AND CAN BE REMOVED AT EROSION CONTROL INSPECTOR'S DISCRETION.
4. WHEN CONSTRUCTION IS COMPLETE, ALL DRY SEDIMENT AND DEBRIS AROUND THE FILTER SHOULD BE SWEPT AND / OR VACUUMED PRIOR TO REMOVING THE FILTER.
5. WHEN THE SITE IS STABILIZED TO PREVENT EROSION AND SEDIMENTATION, REMOVE AND RE-USE FILTER ON NEXT CONSTRUCTION SITE.
6. AFTER 3 TO 4 CONSTRUCTION SITE USAGES, SHOULD THE FILTER BEGIN TO DISINTEGRATE IT SHOULD BE DISCARDED BY CUTTING AND REMOVING MAGNETS AND THEN PLACING IN FUTURE LAWN OR LANDSCAPE AREAS AS MULCH (FILTER IS BIODEGRADABLE).

TEMPORARY INLET PROTECTION DETAIL — C

SCALE : 1/2" = 1'-0"

FOR OFFICIAL TOWN OF AMHERST USE

THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE EXCAVATION & CONSTRUCTION TO ENSURE HE/SHE HAS THE FINAL SET OF DESIGN DOCUMENTS AS ISSUED FOR CONSTRUCTION. THIS PLAN IS CURRENT AS OF THE DATE IT WAS ISSUED. SUBSEQUENT UPDATES OF THIS PLAN BY THE DESIGN ENGINEER DOES NOT AFFORD ANY TRANSFEREES THE RIGHT TO RECEIVE SAID UPDATES, BUT PLACES THE RESPONSIBILITY TO THE TRANSFEREE TO OBTAIN UPDATED PLANS WHICH ARE ISSUED FOR CONSTRUCTION AS THESE MAY DIFFER FROM PREVIOUS PLANS ISSUED FOR PERMIT OR BID.

EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

7		
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1	REV. PER SITE PLAN REVIEW	5/28/25
0	ISSUED FOR SITE PLAN REV.	1/21/25
0	ISSUED FOR CLIENT REVIEW	1/3/25

EROSION CONTROL DETAILS

studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET
C-5.2

TWX3 LED
LED Wall Luminaire

DLC

Catalog Number

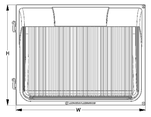
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth: 5.0"
Height: 14.0"
Width: 18.0"
Weight: (without options) 21 lbs



Introduction

TWX LED wall pack family, a ground-up design that has the low initial cost customers demand while providing superior performance and a traditional form. The TWX3 LED is energy efficient, saving up to 84% in energy costs when replacing a metal halide luminaire. Offering an expected service life of more than 20 years, the TWX3 LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

The Adjustable Light Output (ALO) feature allows the contractor to set the light output during installation, to a level perfectly suited for the job site. The TWX3 LED ALO luminaires can replace anything from a 100W to 400W metal halide luminaire.

TWX LED Family Overview

Luminaire	Voltage	Photocell	Lumens (4000K)			
			P1	P2	P3	P4
TWX1 LED	MVOLT (120-277V)	YES	1,600	2,950	--	--
TWX2 LED	MVOLT (120-277V), 347V, 480V	YES	3,250	4,400	5,250	6,850
TWX3 LED	MVOLT (120-277V), 347V	YES	8,800	10,650	12,900	13,850

Ordering Information

EXAMPLE: TWX3 LED ALO 40K MVOLT DDBXD

Series	Package	Color Temperature	Voltage	Options	Finish
TWX3 LED	P1 8,800 lumens P2 10,650 lumens P3 12,900 lumens P4 13,850 lumens ALO 2,900 – 13,850 lumens	30K 3000K 40K 4000K 50K 5000K	MVOLT (120-277V) 347	PE Photocell, Button Type	DDBXD Dark bronze DBLXD Black DWHXD White DNAXD Natural aluminum DDBTXD Textured dark bronze DBLBXD Textured black DWHGXD Textured White DNATXD Textured natural aluminum

FEATURES & SPECIFICATIONS

INTENDED USE
The TWX3 LED is an energy-efficient, low maintenance LED wall pack for replacing up to a 400W MH fixture, providing the same footprint on the wall. TWX3 is ideal for higher mounting height applications such as industrial buildings, warehouses and schools.

CONSTRUCTION
Two-piece die-cast aluminum housing to optimize thermal management through conductive and convective cooling. The door is hinged on the side and can be removed for easy installation. The housing is completely sealed against moisture and environmental contaminants (IP65) and is suitable for the hose-down applications.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
The advanced optical design uses both reflector and refractor technologies that work together to create superior illumination and further throw, getting the light where it is needed. The US-made borosilicate glass refractor is specifically designed to maximize light extraction and create a fully luminous luminaire for a better nighttime look.

INSTALLATION
Designed for wall mounting above four feet from the ground. Housing is configured for mounting directly over a standard junction box (by others) or for surface wiring via any of three 1/2" threaded entry hubs.

LISTINGS
CSA certified to U.S. and Canad an standards. IP65 rated for outdoor applications. Rated for -40ºC minimum ambient.
DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Performance Data

Lumen Output
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	30K (3000K, 80 CRI)		40K (4000K, 80 CRI)		50K (5000K, 80 CRI)	
		Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	65W	8,450	130	8,800	135	8,800	135
P2	79W	10,200	129	10,650	135	10,650	135
P3	97W	12,300	127	12,900	133	12,900	133
P4/ALO	108W	13,250	123	13,850	128	13,850	128

Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	65W	0.538	0.310	0.269	0.233	0.186
P2	79W	0.656	0.379	0.328	0.284	0.227
P3	97W	0.806	0.465	0.403	0.349	0.279
P4/ALO	108W	0.900	0.519	0.450	0.390	0.311

Adjustable Lumen Output (ALO) Table

Steps	System Watts	Lumen Output	Replace Metal Halide
8*	108W	13,850	400W
7	102W	13,250	
6	93W	11,400	
5	71W	9,900	
4	57W	8,200	250W
3	44W	6,450	
2	29W	4,500	150/175W
1	18W	2,900	100W

* Factory default setting is #8

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

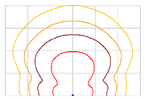
Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate L87, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	60,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.90	>0.88	>0.81

Photometric Diagrams

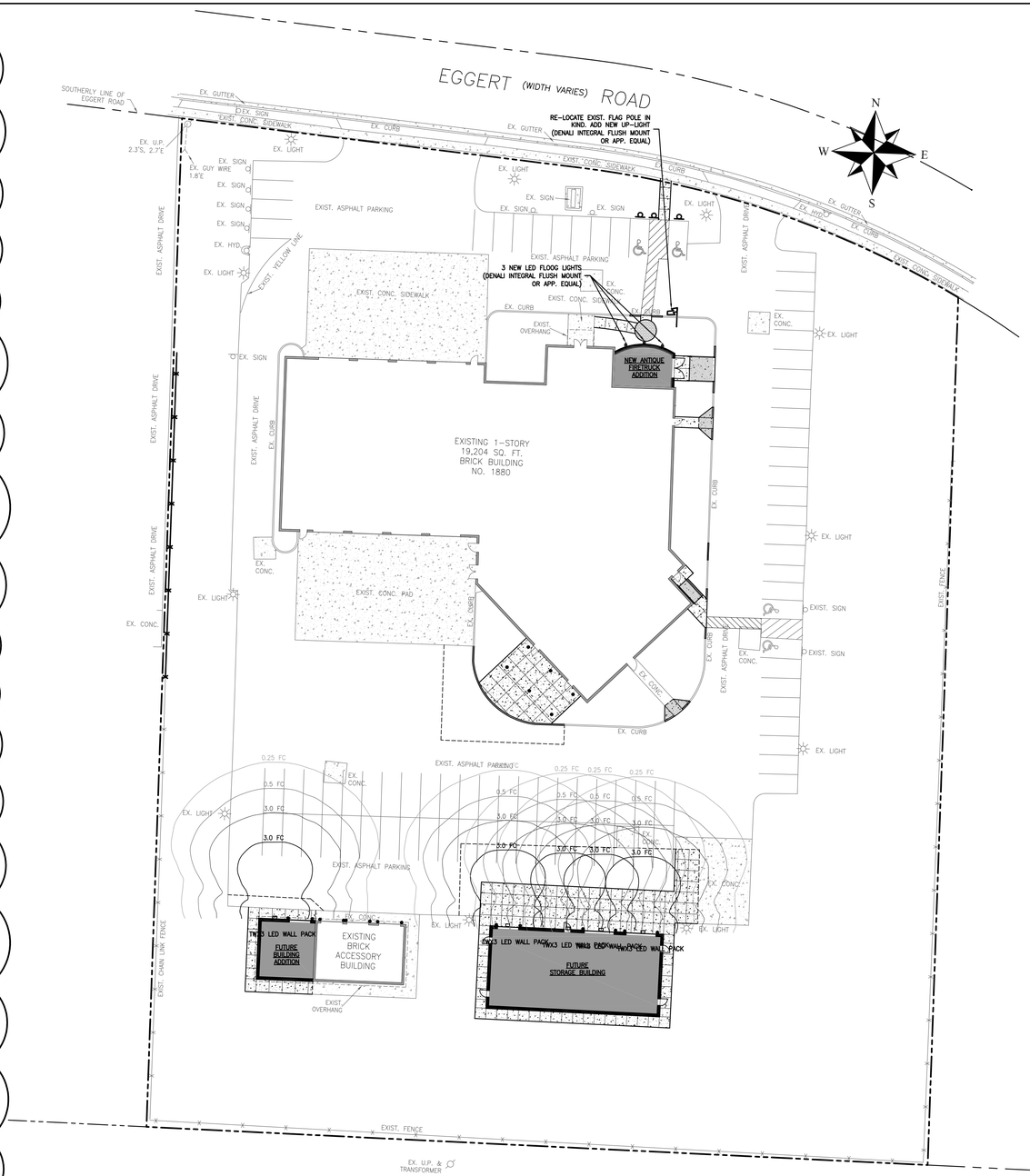
To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWX LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

LEGEND
- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc



TWX3 LED ALO

MH = 18ft
Grid = 18ft x 18ft
ISO lines = 0.25fc, 0.5fc, 1.0fc, 3.0fc



PHOTOMETRIC LIGHTING PLAN

SCALE : 1"= 30'-0"

0 30 60 120

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EGGERTSVILLE HOSE COMPANY
EXTERIOR SITE IMPROVEMENTS
1880 EGGERT ROAD, AMHERST, NY 14226

STAMP/SEAL

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6	REV. PER SITE PLAN REVIEW	5/28/25
5	ISSUED FOR SITE PLAN REV.	1/21/25
4	ISSUED FOR CLIENT REVIEW	1/3/25

FOR OFFICIAL TOWN OF AMHERST USE

PHOTOMETRIC LIGHTING PLAN

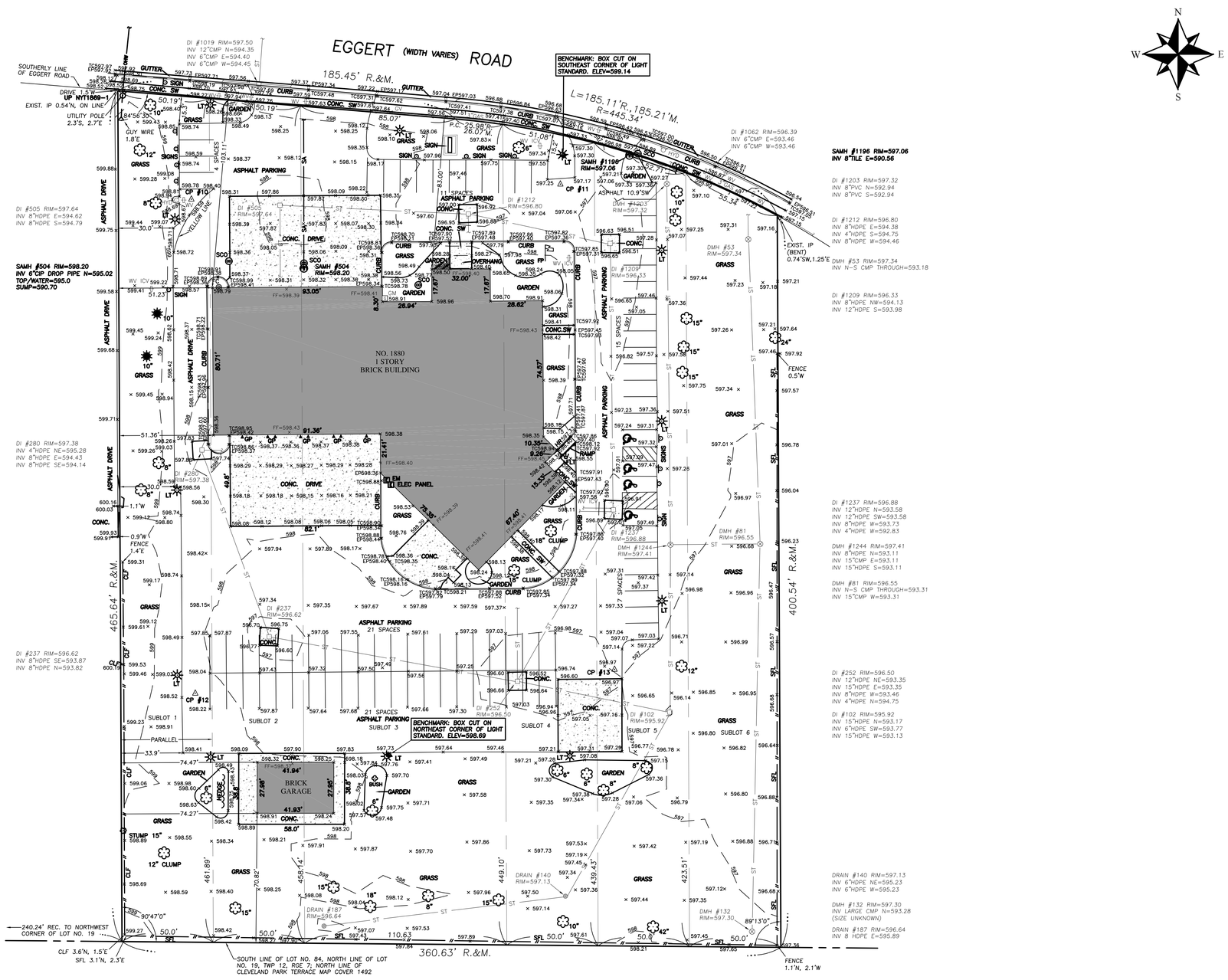
studio T3
Engineering, PLLC
2495 Main Street, Suite 301
Buffalo, New York 14214
Phone: (716) 803-6400
Fax: (716) 810-9504

DRAWN BY: AVT
CHECKED BY: TS
JOB # 23-194A

SHEET
C-6.0

LEGEND

SFL	—x—	STOCKADE FENCE
CLF	—x—	CHAIN LINK FENCE
HR		HANDRAIL
		SIGN
GP		GUARD POSTS
FP		FLAG POLE
		TREE DECIDUOUS
		TREE CONIFEROUS
—G—		GAS LINE
GM		GAS METER
GV		GAS VALVE
DI		DRAINAGE INLET
DCI		DRAINAGE CURB INLET
DMH		STORM DRAINAGE MANHOLE
—ST—		STORM SEWER LINE
SAMH		SANITARY MANHOLE
SCO		SEWER CLEANOUT
—SA—		SANITARY SEWER LINE
INV		INVERT ELEVATION
LIGHT		LIGHT STANDARD
UP		UTILITY POLE
UPL		UTILITY POLE W/ LIGHT
		GUY WIRE
—OHW—		OVERHEAD WIRES
—UE—		UNDERGROUND ELECTRIC
— W —		WATER LINE
WV		WATER VALVE
WV ICV		IRRIGATION CONTROL VALVE
HYD		HYDRANT
FC		FILL CAP
CONC		CONCRETE
TC		TOP OF CURB
SW		SIDEWALK
EP		EDGE OF PAVEMENT
FF		FINISHED FLOOR
R&M		RECORD AND MEASURED
P.C.		POINT OF CURVATURE
CP		PRIMARY CONTROL POINT
BM		BENCHMARK



SURVEY CONTROL
VERTICAL DATUM = NAVD88 (GEOID 18)
HORIZONTAL DATUM = NAD83 (2011)

Point	Northing	Easting	Elevation	Description
10	1084737.3955	1088937.0718	598.67	MAGNAIL
11	1084737.5377	1087139.1858	597.38	MAGNAIL
12	1084467.1316	1088928.3557	598.39	MAGNAIL
13	1084471.0030	1087158.1616	597.08	MAGNAIL

NOTE: UNITS USED TO PREPARE THIS MAP ARE BASED ON THE U.S. SURVEY FOOT.

NOTE: THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THE SURVEYOR DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

NOTE: WHEN ANY DESIGN OR RECONSTRUCTION INVOLVES A NEW CONNECTION TO EXISTING STORM OR SANITARY STRUCTURE AS SHOWN ON THIS DRAWING IT IS STRONGLY ADVISED THAT THE ENGINEER OR ARCHITECT CONTACT THE APPROPRIATE OPERATING AUTHORITY TO VERIFY THAT THE STRUCTURE BEING CONNECTED TO IS APPROPRIATE FOR ANY SUCH STORM OR SANITARY CONNECTION PRIOR TO PROCEEDING WITH DESIGN.

THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATEMENT OF FACTS THAT MAY BE REVEALED BY AN EXAMINATION OF SUCH.

WARNING: ALTERING THIS DOCUMENT IS IN VIOLATION OF THE LAW EXCEPTING AS PROVIDED IN SECTION 7209, PART 2 OF THE NEW YORK STATE EDUCATION LAW.

ALL UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE. BEFORE YOU DIG, DRILL, OR BLAST, CALL UDIG NEW YORK AT 1-800-962-7962

CADD: 4954 EGGERTSVILLE FIRE COMPANY.DWG

1880 EGGERT ROAD
SBL 67.49-2-3.11
PARCEL AREA = 3.693± ACRES

DATE OF SURVEY	DATE OF REVISION	COMMENT	INT.

This map void unless Embossed with New York State Licensed Land Surveyors Seal No. 50510

Rosanne Frandina, PE, LS

TOPOGRAPHIC SURVEY
PART OF LOT NO. 84, TWP 12, RGE 7
OF THE HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST
COUNTY OF ERIE ~ STATE OF NEW YORK

FRANDINA ENGINEERING and LAND SURVEYING, PC
CIVIL ENGINEERS and LAND SURVEYORS
1701 Hertel Avenue, Buffalo, New York 14216
Phone: (716) 883-1299
www.FRANDINA.com

DATE : 2/7/2024 | SHEET : 1 OF 1 | DWN BY : M. CHILDS
JOB NO.: 4954 | SCALE : 1" = 30' | CHK'D BY : RF