Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262
268, 274 & 280 Joe McCarthy Drive
Amherst, New York

AGENCIES

ENGINEERING DEPARTMENT
NAME/TITLE: JEFFERY BURROUGHS, P.E. – TOWN ENGINEER
COMPANY/DEPT: TOWN OF AMHERST ENGINEERING DEPARTMENT
ADDRESS: 1100 NORTH FOREST ROAD
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7154

PLANNING & ZONING DEPARTMENT
NAME/TITLE: DANIEL HOWARD – PLANNING DIRECTOR
COMPANY/DEPT: TOWN OF AMHERST PLANNING DEPARTMENT
ADDRESS: 5583 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–631–7051

BUILDING DEPT.
NAME/TITLE: BERKE, MARK S. – COMMISSIONER OF BUILDING
COMPANY/DEPT.: TOWN OF AMHERST BUILDING DEPT.
ADDRESS: 5583 MAIN ST.
AMHERST, NEW YORK 14221
TELEPHONE 716–631–7080

ECDOH
NAME/TITLE:
COMPANY/DEPT:. ERIE COUNTY DEPARTMENT OF HEALTH
ADDRESS: 503 KENSINGTON AVE
BUFFALO, NEW YORK 14214
TELEPHONE 716–961–6854

NYSDEC
NAME/TITLE:
COMPANY/DEPT: NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
ADDRESS: 700 DELAWARE AVE.
BUFFALO, NEW YORK 14209
TELEPHONE 716–851–7070

UTILITIES

NATURAL GAS
COMPANY/DEPT:. NATIONAL FUEL GAS CORP.
ADDRESS: 6363 MAIN STREET
WILLIAMSVILLE, NEW YORK 14221
TELEPHONE 716–857–7000

TELEPHONE COMPANY
COMPANY/DEPT: VERIZON
ADDRESS: 65 FRANKLIN STREET
BUFFALO, NEW YORK 14203
TELEPHONE 716–840–8748

CABLE COMPANY
COMPANY/DEPT: TIME WARNER
ADDRESS: 789 CHURCH ROAD
WEST SENECA, NEW YORK
TELEPHONE 716–558–8615

ELECTRIC COMPANY
COMPANY/DEPT: NATIONAL GRID
ADDRESS: 144 KENSINGTON AVENUE
BUFFALO, NEW YORK 14214
TELEPHONE 716–236–2738

WATER
COMPANY/DEPT:. ERIE COUNTY WATER AUTHORITY
ADDRESS: 3030 UNION ROAD
CHEEKTOWAGA, NEW YORK 14227
TELEPHONE 716–684–1510

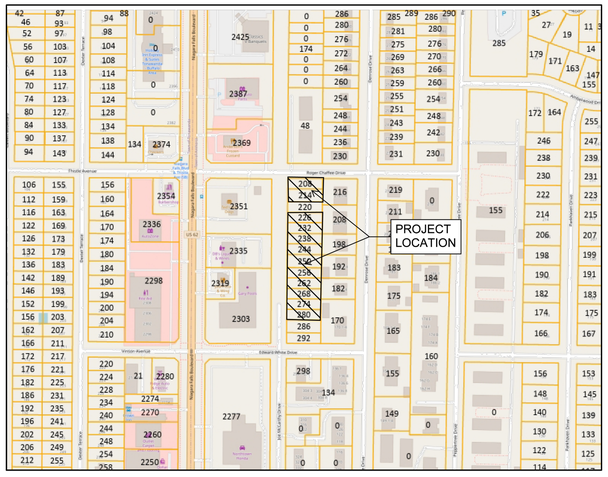
DIG SAFELY NEW YORK
TELEPHONE 1–800–962–7962

DESIGN CONSULTANTS

PROJECT SURVEYOR
NAME/TITLE:
COMPANY/DEPT:. GPI ENGINEERING, LANDSCAPE, ARCHITECTURE & SURVEYING, LLP
ADDRESS: 4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
TELEPHONE 716–633–4844

OWNER/DEVELOPER

NAME: MEL INVESTORS, LLC
ADDRESS 6790 MAIN STREET, STE 100
WILLIAMSVILLE, NY 14221
CONTACT: PAUL BLISS
TELEPHONE (716) 249-4008



LOCATION MAP
NOT TO SCALE

CARMINAWOOD DESIGN

APRIL 2026
REV. November 2026

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY GPI ENGINEERING)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	SITE PLAN
C–101	SITE DETAILS
C–102	SITE DETAILS
C–200	GRADING PLAN
C–300	DRAINAGE PLAN
C–301	DRAINAGE DETAILS
C–302	DRAINAGE DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
C–402	UTILITY DETAILS
C–403	UTILITY DETAILS
C–404	UTILITY PROFILES & NOTES
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS PLANT SCHEDULE
L–102	ENLARGED LANDSCAPE PLANS
LP–100	LIGHTING PLAN
LP–101	LIGHTING DETAILS
LP–102	LIGHTING DETAILS
FT–100	FIRE TRUCK TURNING PLAN

REV #	DESCRIPTION	DATE
1	Rev per Town & Agency commments	11/03/26

Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262
268, 274 & 280 Joe McCarthy Drive
Amherst, New York

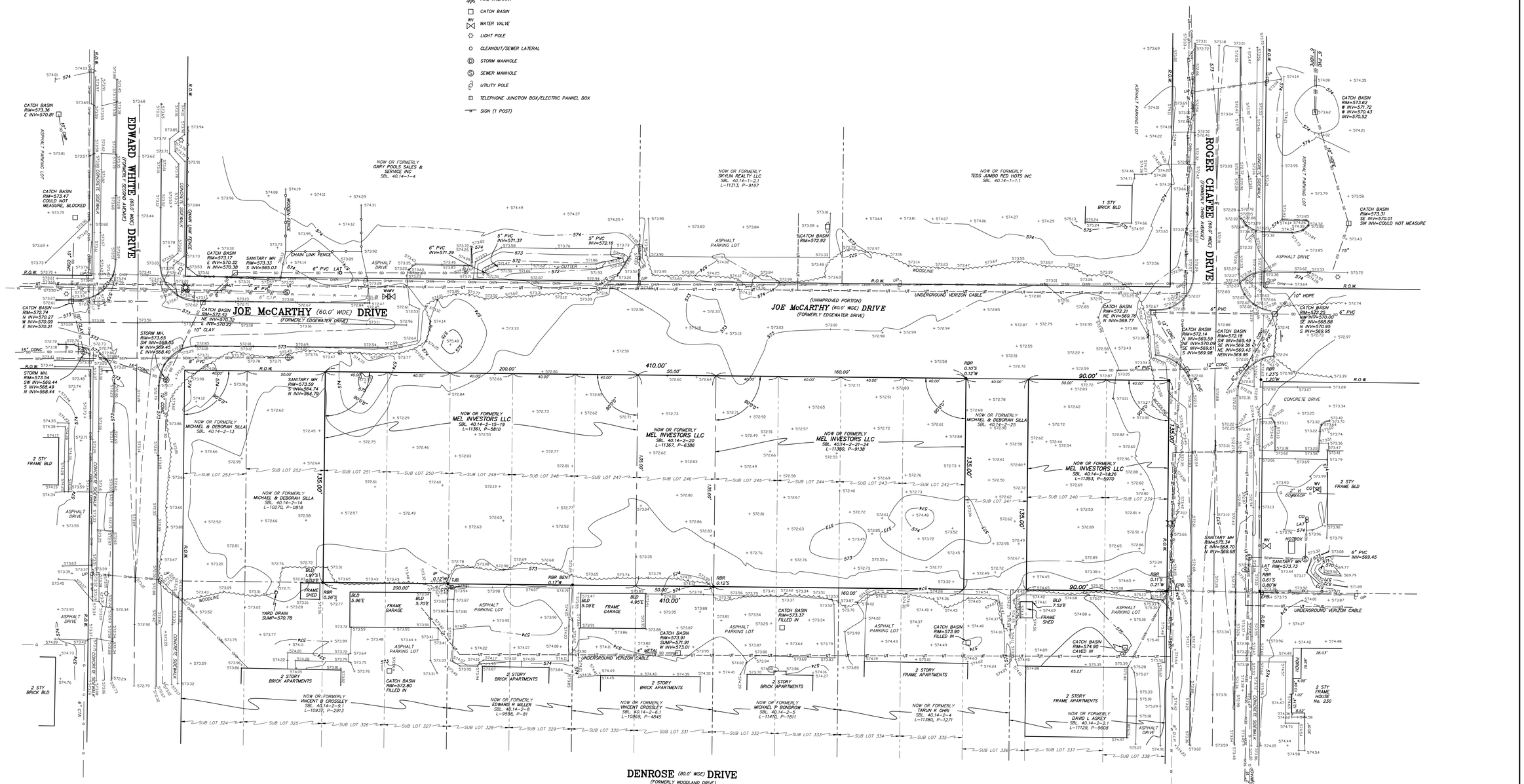
NOTE: THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE.

● SET OR EX. 5/8" REBAR

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

LEGEND

- FIRE HYDRANT
- CATCH BASIN
- WV WATER VALVE
- LIGHT POLE
- CLEANOUT/SEWER LATERAL
- STORM MANHOLE
- SEWER MANHOLE
- UTILITY POLE
- TELEPHONE JUNCTION BOX/ELECTRIC PANNEL BOX
- SIGN (1 POST)



1. VERTICAL CONTROL BASED UPON NAVD 88 VERTICAL DATUM.

2. HORIZONTAL CONTROL GPS DERIVED NAD83.

NOTE:

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING RECORD DRAWINGS PROVIDED TO THE SURVEYOR. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO SUBSTANTIATE BURIED UTILITIES AND STRUCTURES. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH THEY DO CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. BEFORE EXCAVATIONS ARE BEGUN, THE APPROPRIATE AGENCIES SHOULD BE CONTACTED FOR VERIFICATION OF UTILITY TYPE AND FOR FIELD LOCATIONS.

NOTE: UNDERGROUND LOCATION OF UTILITIES ARE APPROXIMATE.

CONTACT "ONE CALL" AT 1-800-962-7962 PRIOR TO ANY UNDERGROUND EXCAVATION.

THE FOLLOWING COMPANIES RESPONDED TO UFPO DESIGN TICKET No. 10273-000-343

CHARTER COM NORTHEAST WESTERN NY	(317) 575-7800 x2	NO CONFLICT
ERIE COUNTY WATER AUTHORITY	(716) 685-8207	UTILITIES AS SHOWN
NATIONAL FUEL GAS | TONAWANDA-NFG104	(716) 857-7431	UTILITIES AS SHOWN
NATIONAL GRID / WEST / ELECTRIC	(680) 244-2062	UTILITIES AS SHOWN
NYS DOT BUFFALO REGION 5	(716) 847-3173	NO CONFLICT
TOWN OF AMHERST SANITARY SEWER	(716) 631-7413	UTILITIES AS SHOWN
TOWN OF AMHERST FIBER	(716) 631-7413	NO CONFLICT
TOWN OF AMHERST STREET LIGHTING	(716) 631-7413	NO RESPONSE
VERIZON | BUFFALO	(315) 937-2515	UTILITIES AS SHOWN

DATE	REVISION/TYPE

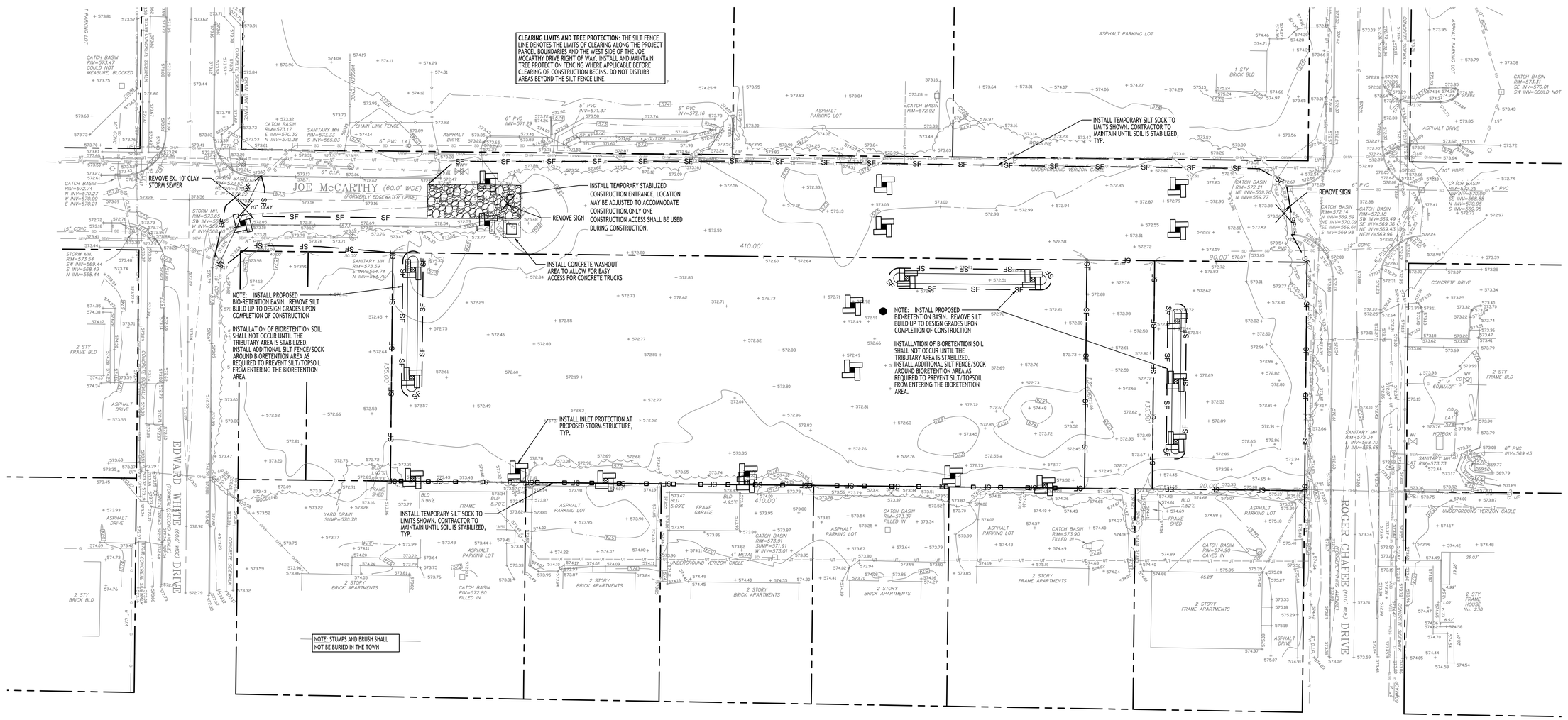
BOUNDARY AND TOPOGRAPHIC SURVEY OF
SUB LOTS 239, 240, AND 242 THROUGH 251, MAP COVER 1297
BOLEVARD GARDENS No. 2
PART OF LOT 87, TOWNSHIP 12, RANGE 7
HOLLAND LAND COMPANY'S SURVEY
TOWN OF AMHERST, ERIE COUNTY, NEW YORK

GPI ENGINEERING, LANDSCAPE ARCHITECTURE & SURVEYING, LLP
ENGINEERING • SURVEYING • LANDSCAPE ARCHITECTURE
4950 GENESEE STREET, SUITE 100
BUFFALO, NEW YORK 14225
(716) 633-4844 FAX 633-4940

Job No. 11184 Date: OCTOBER 27, 2023
Scale: 1" = 30' TAX No.

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Demolition & Erosion Control Plan

SCALE: 1"=30'

SEQUENCE OF MAJOR ACTIVITIES

THE CONTRACTOR WILL BE RESPONSIBLE FOR IMPLEMENTING THE FOLLOWING EROSION CONTROL AND STORM WATER MANAGEMENT CONTROL MEASURES. THE CONTRACTOR MAY DESIGNATE THESE TASKS TO CERTAIN SUBCONTRACTORS AS HE SEES FIT, BUT THE ULTIMATE RESPONSIBILITY FOR IMPLEMENTING THESE CONTROLS AND ENSURING THEIR PROPER FUNCTIONING REMAINS WITH THE CONTRACTOR. THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

A. INSTALL STABILIZED CONSTRUCTION ENTRANCE

B. INSTALL PERIMETER SILT FENCES/SILT SOCK IN THE LOCATIONS SHOWN ON THE DEMOLITION AND EROSION CONTROL PLAN SHEET.

C. CLEAR & GRUB SITE.

D. INSTALLATION OF BIO-RETENTION BASINS.

E. COMMENCE SITE GRADING.

F. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS SHALL BE TEMPORARILY SEEDED AND WATERED.

G. CONSTRUCTION OF BUILDINGS.

H. INSTALLATION OF PROPOSED UTILITIES.

I. FINALIZE PAVEMENT SUBGRADE PREPARATION.

J. CONSTRUCT ALL CURB, DRAINAGE INLETS, STORM SEWER PIPES AND STORM SEWER MANHOLES, AS SHOWN ON PLANS. INSTALL TEMPORARY INLET PROTECTION AT THE LOCATION OF ALL INLETS.

K. DUST CONTROL.

L. REMOVE INLET PROTECTION AROUND INLETS AND MANHOLES NO MORE THAN 48 HOURS PRIOR TO PLACING STABILIZED BASE COURSE.

M. INSTALL BASE MATERIAL AS REQUIRED FOR PAVEMENT.

N. CARRY OUT FINAL GRADING AND SEEDING AND PLANTINGS.

O. CLEAN STORM SYSTEM FOLLOWING CONSTRUCTION, CLEAN UNDERGROUND DETENTION BASIN AS PER MANUFACTURER RECOMMENDATIONS.

P. REMOVE SILT FENCE/SILT SOCK ONLY AFTER ALL PAVING IS COMPLETE AND EXPOSED SURFACES ARE STABILIZED.

Q. REMOVE TEMPORARY CONSTRUCTION EXITS ONLY PRIOR TO PAVEMENT CONSTRUCTION IN THESE AREAS.

EROSION CONTROL NOTES

THE FOLLOWING EROSION CONTROL PROCEDURES SHALL BE ADHERED TO BY THE CONTRACTOR:

1. INSTALL TEMPORARY SILT SOCK BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT SOCK BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR RE-USE AS DIRECTED BY THE OWNER. ALL LOCAL ORDINANCES REGARDING THE SALE OF TOPSOIL MUST BE FOLLOWED. TOPSOIL MAY NOT BE REMOVED WITHOUT A PERMIT.
3. ALL SILT SOCK BARRIERS SHALL BE REPLACED WHEREVER THEY BECOME CLOGGED OR INOPERABLE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REMOVAL OF TEMPORARY SEDIMENTATION CONTROLS.
5. THE CONTRACTOR MUST CONTROL DUST DURING CONSTRUCTION. DURING EARTHWORK OPERATIONS, WATER-SPREADING EQUIPMENT SHALL BE PROVIDED BY THE CONTRACTOR, AND SPREAD WATER AS NECESSARY AND AS DIRECTED BY THE OWNER IN ORDER TO CONTROL DUST.
6. DIRT OR DEBRIS LEFT ON LOCAL PUBLIC ROADS AS A RESULT OF THIS CONSTRUCTION PROJECT SHALL BE REMOVED AND ROAD SURFACES CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
7. ALL DISTURBED AREAS (EXCEPT AREAS TO BE PAVED OR BUILT UPON) SHALL BE TOPSOILED TO A MINIMUM 4" DEPTH AND SEEDED IMMEDIATELY AFTER FINE GRADING TAKES PLACE AND AS SOON AS PHYSICALLY POSSIBLE.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF DOWNSTREAM STORM SEWERS, DITCHES, AND CULVERTS. SILT BUILDUP FOUND TO BE A RESULT OF THIS SITE CONSTRUCTION WORK SHALL BE REMOVED FROM DOWNSTREAM CULVERTS BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER OR THE TOWN/CITY.
9. ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION, AS DIRECTED BY THE ENGINEER.
10. INSTALL TEMPORARY SILT SOCK AROUND THE BASE OF STOCKPILES. STOCKPILES NOT BEING ACTIVELY USED FOR MORE THAN SEVEN (7) DAYS SHALL BE STABILIZED.
11. THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY, AND WHEN DISTURBING MORE THAN 5 ACRES TWICE A WEEK, AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF AMHERST (BI)WEEKLY.
12. THE ENGINEER OF RECORD FOR THIS PROJECT CERTIFIES THAT THESE DESIGN PLANS MEET THE REQUIREMENTS AND ARE IN COMPLIANCE WITH THE NEW YORK STORMWATER MANAGEMENT DESIGN MANUAL AND NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS.

RESTORATION NOTES

1. THE ADJACENT AREAS DISTURBED OR DAMAGED DURING CONSTRUCTION MUST BE RESTORED IN KIND TO THE SATISFACTION OF THE OWNER.
2. WHEN RESTORING LAWN AREAS ADJACENT TO NEW CONSTRUCTION, ON-SITE MATERIAL MAY BE USED TO BACKFILL THE AREA WITHIN SIX INCHES OF THE FINISHED SURFACE. ON-SITE MATERIAL SHALL BE THOROUGHLY COMPACTED & FREE OF GRASS CLUMPS, TREE ROOTS PIECES OF ASPHALT & OTHER EXTRANEOUS MATERIALS, & STONES LARGER THAN 1 INCH IN SIZE.
3. ALL DISTURBED UN-SURFACED AREAS SHALL RECEIVE FOUR INCHES OF TOPSOIL, SEED & MULCH & SHALL BE WATERED UNTIL A HEALTHY STRAND OF GRASS IS OBTAINED.
4. WHEN ADJACENT ASPHALT, CONCRETE OR PAVING STONE AREAS ARE DISTURBED AS PART OF THE CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO REPLACE THE DAMAGED OR EXCAVATED AREA. THE PERIMETER OF THE DISTURBED AREA SHALL BE SAW CUT FULL DEPTH, SO THAT ALL LINES ARE STRAIGHT & TRUE. PAVING STONES SHALL BE REPLACED IN WHOLE UNITS ONLY, & ALL REPLACEMENT PAVING STONES ARE TO MATCH THE EXISTING ONES IN SIZE, SHAPE & COLOR. ASPHALT SHALL BE COMPACTED TO A SMOOTH FINISH & SHALL BE FLUSH WITH THE EXISTING ADJACENT AREA THAT IS TO REMAIN.

GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE TOWN OF AMHERST SPECIFICATIONS WHERE APPLICABLE AND/OR SUBJECT TO THE LATEST REVISIONS BY THE TOWN ENGINEER.
2. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL LOCATIONS BEFORE BEGINNING WORK AS REQUIRED BY APPLICABLE LAWS & REGULATIONS.
3. ALL FILL WITHIN THE RIGHT-OF-WAY & UTILITY AREAS IS TO BE COMPACTED TO 95% MOD-PROCTOR, BENCHED IN 6" LIFTS, & TO BE COMPLETED PRIOR TO UTILITY & ROADWAY CONSTRUCTION.
4. STUMPS & BRUSH SHALL NOT BE BURIED IN THE TOWN.
5. ANY AREAS NOT REQUIRING FILL OR RE-GRADING SHALL NOT BE STRIPPED OF TOPSOIL.
6. ALL AREAS THAT HAVE BEEN STRIPPED ARE TO RECEIVE A MINIMUM OF 4-INCHES OF TOPSOIL, GRADED & SEEDED.
7. NO TOPSOIL IS TO LEAVE THE SITE AFTER THE TOWN RECEIVES DEDICATION.

DEMOLITION NOTES:

1. ALL PERIMETER SILT SOCK TO BE INSTALLED PRIOR TO CONSTRUCTION ACTIVITY BEGINNING.
2. CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THOSE ITEMS TO REMAIN, SUCH AS TREES, PROPERTY CORNER PINS, UTILITY POLES, VALVES, HYDRANTS, CURBS, MANHOLES AND CATCH BASINS.
3. TEMPORARY SILT SOCK TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGETATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
4. AS NECESSARY, COVERED DUMPSTERS SHALL BE PROVIDED ONSITE AS REQUIRED FOR CONSTRUCTION WASTE.
5. REMOVE ALL TREES AND STUMPS AS SHOWN AND DISPOSE OF OFF SITE. CONTRACTOR TO PROTECT ALL TREES/BRUSH NOT DISTURBED BY CONSTRUCTION ACTIVITY. LOCATIONS OF TREES SHOWN ON PLAN ARE APPROXIMATE, CONTRACTOR TO CONFIRM LOCATION PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO COORDINATE WITH TOWN LANDSCAPE ARCHITECT WHICH TREES SHALL BE REMOVED AND WHICH SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

Sealed 11/03/2026

DRAWING NAME:
Demolition & Erosion Control Plan

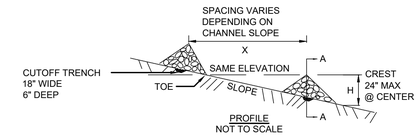
Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
C-001

Project No: 24-4023

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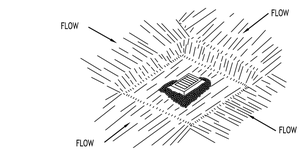
CONSTRUCTION SPECIFICATIONS

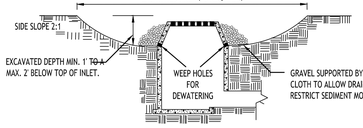
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET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

MAXIMUM DRAINAGE AREA 2 ACRES.

STONE CHECK DAM DETAIL

NOT TO SCALE





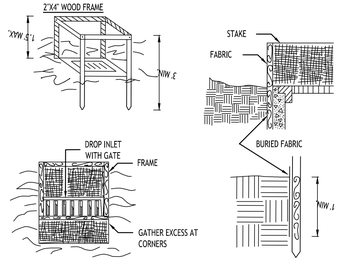
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 1

NOT TO SCALE



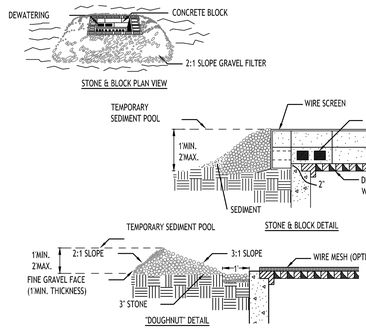
CONSTRUCTION SPECIFICATIONS

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

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

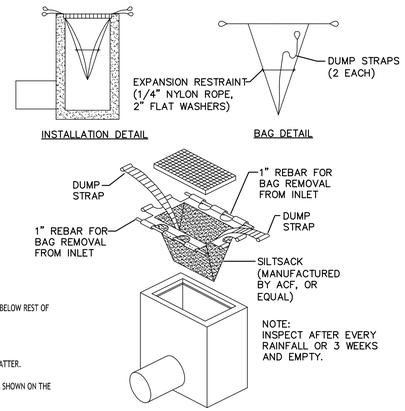
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2 INCHES MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR 1/2" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL 1/2-3/4 INCH IN DIAMETER PLACED 2 INCHES BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1 FOOT THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3 INCH STONE AS SHOWN ON THE DRAWINGS.

MAXIMUM DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 3

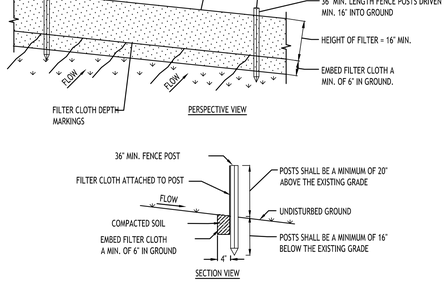
NOT TO SCALE

NOTE: INSTALL ONE OF THE INLET PROTECTION OPTIONS SHOWN PRIOR TO CONSTRUCTION



SILT SACK DETAIL

NOT TO SCALE

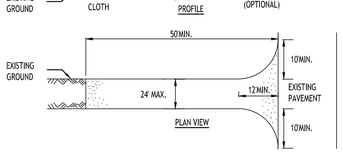


CONSTRUCTION SPECIFICATIONS

1. WOVEN FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER 'T' OR 'U' TYPE OR HARDWOOD.
2. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
3. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN 'BULGES' DEVELOP IN THE SILT FENCE.

SILT FENCE DETAIL

NOT TO SCALE

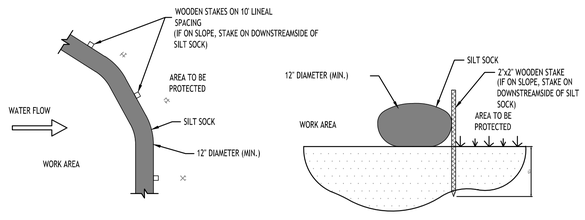


CONSTRUCTION SPECIFICATIONS

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

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE



NOTES:

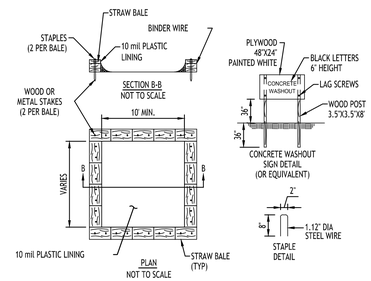
CONTRACTOR SHALL INSPECT AND MAINTAIN SILT SOCK AS NEEDED DURING THE DURATION OF CONSTRUCTION PROJECT.

CONTRACTOR SHALL REMOVE SEDIMENT COLLECTED AT THE BASE OF THE SILT SOCK WHEN IT HAS REACHED ½ OF THE EXPOSED HEIGHT OF THE SILT SOCK. ALTERNATIVELY, RATHER THAN CREATE A SOIL DISTURBING ACTIVITY, THE ENGINEER MAY CALL FOR ADDITIONAL SILT SOCK TO BE ADDED AT AREAS OF HIGH SEDIMENTATION, PLACED IMMEDIATELY ON TOP OF THE EXISTING SEDIMENT LADEN SILT SOCK.

SILT SOCK SHALL BE OVERLAPPED 12" AT JOINTS AND STAKED ON EACH SIDE OF THE SOCK AT A 45° ANGLE

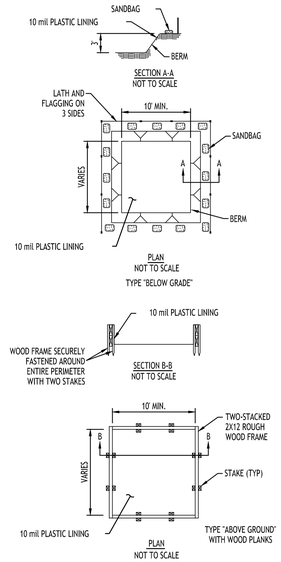
SILT SOCK DETAIL

NOT TO SCALE



NOTES

1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.



CONCRETE WASHOUT DETAIL

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

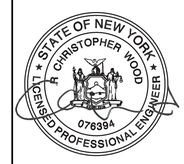
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Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274
& 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26



Sealed 11/03/2026

DRAWING NAME:

Demolition &
Erosion Control
Details

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

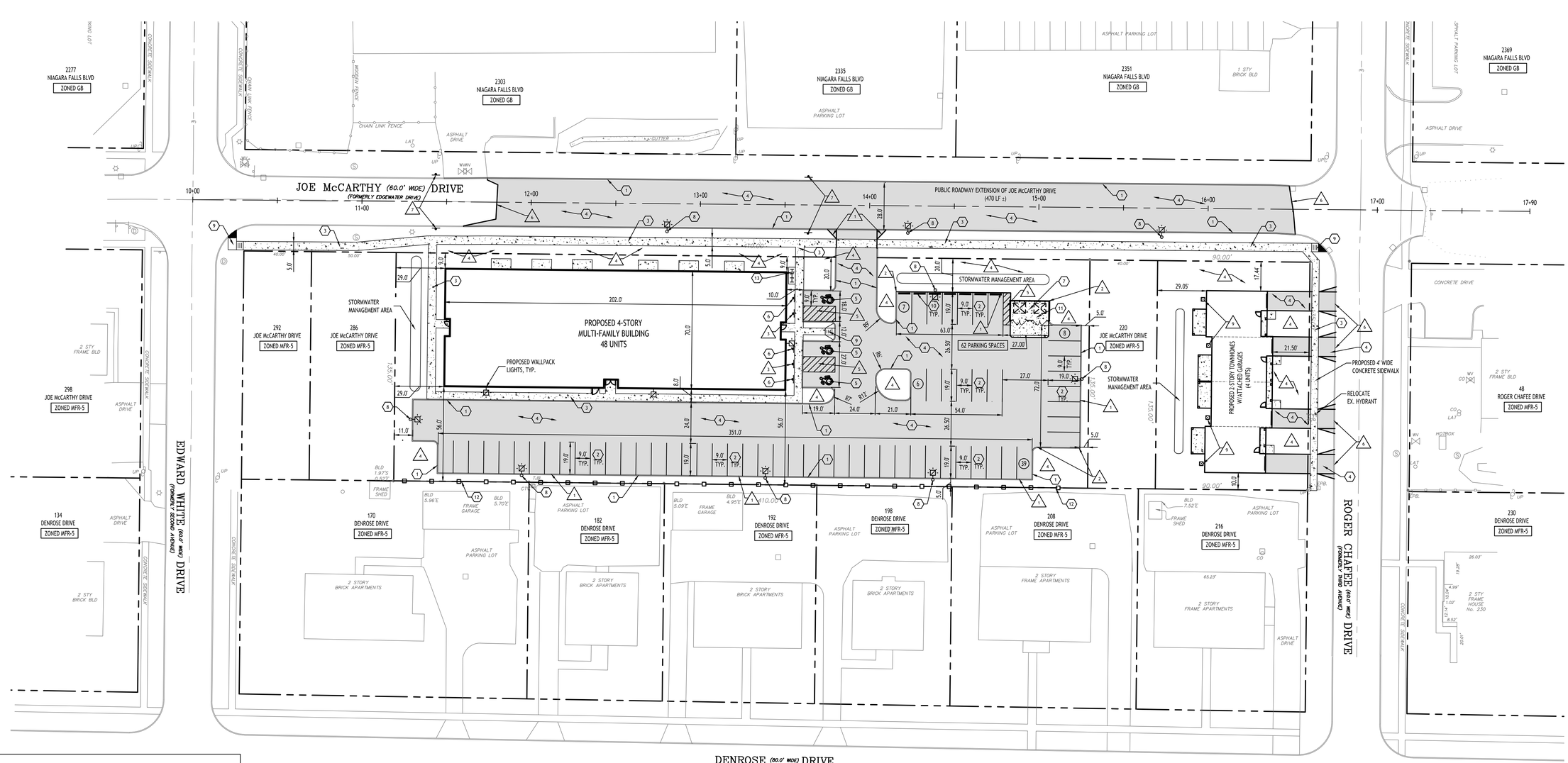
DRAWING NO.

C-002

Project No: 24-4023

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Site Data

SITE AREA = 1.27 AC (TOTAL, CENTRAL PARCELS)
ZONED: MFR-5
PROPOSED USE: PROPOSED 4-STORY MULTI-FAMILY BUILDING, PUBLIC ROADWAY EXTENSION

	REQUIRED	PROVIDED
SETBACKS (BLDG)		
FRONT (BLDG LONG WALL / BLDG SHORT WALL)	100 FT / 75 FT	9.0 FT (LONG)*
SIDE (BLDG LONG WALL / BLDG SHORT WALL)	100 FT / 75 FT	29.0 FT (SHORT)*
REAR (BLDG LONG WALL / BLDG SHORT WALL)	100 FT / 75 FT	56.0 FT (LONG)*
SETBACKS (PARKING)		
FRONT (FROM R.O.W.)	20.0 FT	20 FT
SIDE (P.L.)	5.0 FT	5 FT MIN.
REAR (P.L.)	5.0 FT	5 FT MIN.
MAIN BLDG WALL:	15.0 FT	8.0 FT **
END BLDG WALL:	10.0 FT	10 FT
MIN. BUILDING SEPARATION:	83 FT/ 75 FT	N/A
MAX. BUILDING COVERAGE:	40% (0.51 AC)	25.8% (0.32 AC)
MAX. BUILDING HEIGHT:	35 FT	> 35 FT *
PARKING: (9x19)	96	62*
GREENSPACE		
INTERIOR PARKING AREA:	960 SF (5.0%)	> 5%

* VARIANCE REQUIRED

PARKING CALCULATION:

"MULTI-FAMILY"
2 SPACES PER UNIT
48 UNITS x 2 = 96 SPACES REQD (9x19)

NOTE: PROPOSED MEAN HT = 50 FT

BUILDING DENSITY REQUIREMENTS:

PER MFR-5 ZONING REQUIREMENTS
1 BEDROOM = 3,630 SF OF SITE
2 BEDROOM = 4,356 SF OF SITE
3 BEDROOM = 5,445 SF OF SITE

QTY OF 4 '1-BEDROOM UNITS = 14,520 SF
QTY OF 9 '2-BEDROOM UNITS = 39,204 SF
QTY OF 0 '3-BEDROOM UNITS = N/A
= 53,724 SF
= 1.23 ACRES

UNITS ALLOWED = 13 UNITS
UNITS PROPOSED = 48 UNITS*

Site Data

SITE AREA = 0.28 AC (TOTAL, NORTHERN PARCELS)
ZONED: MFR-5
PROPOSED USE: PROPOSED 2-STORY MULTI-FAMILY BUILDING WITH ATTACHED GARAGES

	REQUIRED	PROVIDED
SETBACKS (BLDG)		
FRONT (BLDG LONG WALL / BLDG SHORT WALL)	50 FT / 37.50 FT	21.50 FT (LONG)* / 17.44 FT (SHORT)*
SIDE (BLDG LONG WALL / BLDG SHORT WALL)	50 FT / 37.50 FT	29.05 FT (LONG)* / 10.0 FT (SHORT)*
REAR (BLDG LONG WALL / BLDG SHORT WALL)	50 FT / 37.50 FT	N/A
SETBACKS (PARKING)		
FRONT (FROM R.O.W.)	20.0 FT	0 FT *
SIDE (P.L.)	5.0 FT	10 FT MIN.
REAR (P.L.)	5.0 FT	N/A
MAIN BLDG WALL:	15.0 FT	N/A
END BLDG WALL:	10.0 FT	N/A
MIN. BUILDING SEPARATION:	41.50 FT/ 37.50 FT	N/A
MAX. BUILDING COVERAGE:	40% (0.11 AC)	35.7% (0.10 AC)
MAX. BUILDING HEIGHT:	35 FT	25 FT
PARKING: (9x19)	8	8 (4 SURFACE, 4 GARAGE)

* VARIANCE REQUIRED

PARKING CALCULATION:

"MULTI-FAMILY"
2 SPACES PER UNIT
4 UNITS x 2 = 8 SPACES REQD (9x19)

NOTE: PROPOSED MEAN HT = 25 FT

BUILDING DENSITY REQUIREMENTS:

PER MFR-5 ZONING REQUIREMENTS
1 BEDROOM = 3,630 SF OF SITE
2 BEDROOM = 4,356 SF OF SITE
3 BEDROOM = 5,445 SF OF SITE

QTY OF 0 '1-BEDROOM UNITS = N/A
QTY OF 2 '2-BEDROOM UNITS = 8,712 SF
QTY OF 0 '3-BEDROOM UNITS = N/A
= 8,712 SF
= 0.2 ACRES

UNITS ALLOWED = 2 UNITS
UNITS PROPOSED = 4 UNITS*

SBL NO'S:

NORTHERN PARCELS
40.14-2-1 (0.12 ac)
40.14-2-26 (0.16 ac)

CENTRAL PARCELS
40.14-2-15 (0.12 ac)
40.14-2-16 (0.12 ac)
40.14-2-17 (0.12 ac)
40.14-2-18 (0.12 ac)
40.14-2-19 (0.12 ac)
40.14-2-20 (0.16 ac)
40.14-2-21 (0.12 ac)
40.14-2-22 (0.12 ac)
40.14-2-23 (0.12 ac)
40.14-2-24 (0.12 ac)

Site Plan

SCALE: 1"=30'

SITE NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL AND SEED.
3. ALL DIMENSIONS FROM PROPERTY LINES SHALL BE MEASURED PERPENDICULAR TO THE PROPERTY LINE.
4. CENTER ENTRANCE SIDEWALKS ON DOOR OPENINGS.
5. BUILDING DIMENSIONS ARE APPROXIMATE, REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS.
6. ALL HANDICAP RAMPS (NOT WITHIN THE NYSDOT R.O.W.) AND/OR SIDEWALKS FLUSH TO PAVEMENT SHALL HAVE ADA COMPLIANT TACTILE WARNING STRIPS WHERE ENTERING PARKING AREAS/DRIVEWAYS. SIDEWALKS FLUSH TO PAVEMENT WITHIN THE NYSDOT R.O.W. SHALL ADHERE TO THE NOTES AND DESIGN REGULATIONS AS STATED ON NYSDOT STANDARD SHEET 608-01.

NOTE LEGEND

1. EDGE OF PAVEMENT
2. RUNOUT CURB IN 2' OR MATCH EXISTING CURB
3. INSTALL 'NO PARKING' SIGN, M.U.T.C.D. SIGN NO. R7-9C
4. LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
5. 4" WIDE WHITE PAINT STRIPE @ 45° & 2' O.C., INFILL AREA AS SHOWN
6. MATCH EX. PAVEMENT, SAWCUT AS REQD TO ACHIEVE SQUARE EDGE TO MATCH
7. INSTALL NO PARKING FIRE LANE SIGN, M.U.T.C.D. SIGN NO. R8-3?.
8. PROPOSED CENTRALIZED MAIL UNITS (CBU)
9. PROPOSED AC UNITS

DETAIL LEGEND (SEE MFG DETAIL SHEET)

1. TYPE 'A' CONCRETE CURB
2. 90° PARKING STALL
3. CONCRETE SIDEWALK, 5' WIDE UNLESS OTHERWISE NOTED
4. STANDARD DUTY ASPHALT
5. HANDICAP PAVEMENT MARKINGS
6. HANDICAPPED PARKING SIGN
7. EXTERIOR CONCRETE SLAB ON GRADE
8. LIGHT POLE FOUNDATION
9. SIDEWALK CURB RAMP
10. PRE-CAST PARKING BUMPER
11. DUMPSTER ENCLOSURE
12. 6' HIGH BOARD ON BOARD FENCE
13. INVERTED 'U' BICYLE RACK

SITE LEGEND

- PROPERTY LINE
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (27)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED LIGHT POLE
- PROPOSED WALL MOUNTED LIGHT

GENERAL NOTES:

1. INSTALL ALL MATERIALS TO MANUFACTURER'S RECOMMENDATIONS AND BEST STANDARDS OF TRADE INVOLVED.
2. SUBSTITUTIONS SHALL BE MADE ONLY WITH OWNER'S APPROVAL AND BE OF EQUIVALENT QUALITY TO WHAT IS SPECIFIED.
3. WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND OSHA SAFETY RULES AND REGULATIONS.
4. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. NOTIFY OWNER & ENGINEER OF DISCREPANCIES IN CONDITIONS SHOWN ON DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ANY EXISTING STRUCTURES TO REMAIN AND ANY FINISH MATERIAL INSTALLED WHILE WORKING ON OTHER COMPONENTS.
6. CONTRACTOR SHALL KEEP JOB FREE OF DEBRIS AND MAKE FINAL CLEANUP TO SATISFACTION OF OWNER.
7. CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION SO THAT THIS WORK WILL NOT DISTURB EXISTING LINES AND/OR INSTALLATIONS. COORDINATE ALL WORK WITH THE APPLICABLE UTILITY COMPANIES.
8. ALL OTHER PERMITS REQUIRED BY STATE OF NEW YORK, COUNTY OF ERIE, AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER/OWNER.
9. EXISTING CURB AND REMOVAL OF EXISTING ENTRANCE SHALL BE SAW CUT FULL-DEPTH AND NEATLY REMOVED FROM THE BACKSIDE, EXISTING PAVEMENT SHALL NOT BE DISTURBED AND THE PAVEMENT EDGE SHALL BE USED AS FORM FOR PLACING NEW CURB.
10. SANITARY SEWER EASEMENTS SHOWN ARE APPROXIMATE BASED ON RECORD PLANS PROVIDED BY TOWN OF AMHERST ENGINEERING DEPARTMENT. SURVEYOR TO VERIFY LOCATION PRIOR TO CONSTRUCTION.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK * CHRISTOPHER WOOD * 076394 LICENSED PROFESSIONAL ENGINEER

Sealed 11/03/2026

DRAWING NAME:
Site Plan

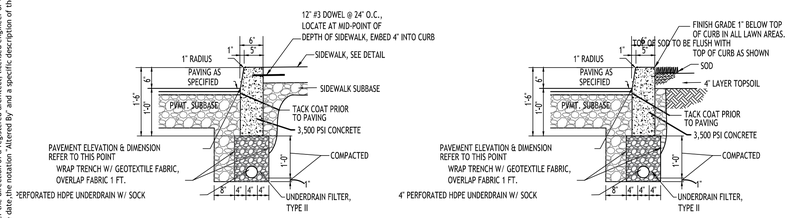
Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
C-100

Project No: 24-4023

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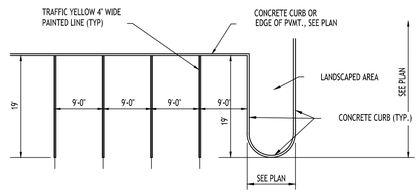


ABUTTING SIDEWALK

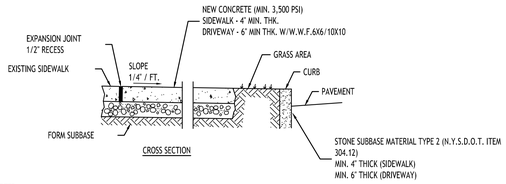
ABUTTING LANDSCAPE/GRASS

NOTES:
1. CONTROL JOINTS TO BE 2" DEEP AT 15'-0" O.C. - SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. WHERE THE CURB DROPS (IS FLUSH WITH ASPHALT) THE DEPTH OF CURB BELOW GRADE SHALL BE INCREASED TO 1'-6" AND OTHER DIMENSIONS ADJUSTED ACCORDINGLY.
3. TIE UNDERDRAINS INTO CLOSEST DRAINAGE SYSTEM OR OUTLET TO DAYLIGHT UNLESS OTHERWISE INDICATED, SLOPE OF UNDERDRAIN TO FOLLOW BOTTOM OF CURB SLOPE.

TYPE "A" CONCRETE CURB - 1

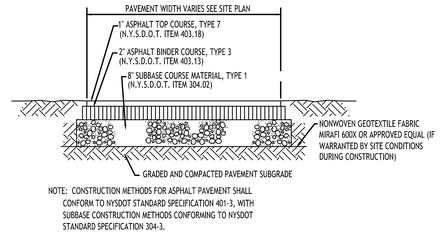


90° PARKING STALL LAYOUT - 2



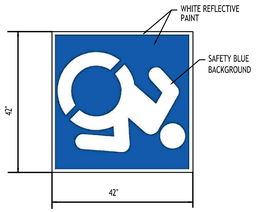
NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 608-3.
3. SUBBASE GRADE SHALL FOLLOW THE PROPOSED GRADE OF THE SIDEWALK AND SLOPE AWAY FROM BUILDING WHERE APPLICABLE, PROVIDE CONTINUOUS STONE PATH TO CURB UNDERDRAIN WHERE PROVIDED.
4. FULL DEPTH EXPANSION JOINTS SHALL BE INSTALLED EVERY 20' O.C., BOTHWAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
5. SEE CURB DETAIL FOR DOWLING REQUIREMENTS WHERE ABUTTING CURB.
6. INSTALL 6' LONG #3 DOWELS @ 12" O.C. WHERE SIDEWALK ABUTS A BUILDING WALL AT AN ENTRANCE, THICKEN SIDEWALK TO 6" AT BUILDING WALL AND INSTALL DOWEL CENTERED IN THE 6" DEPTH. DOWELS AND THICKENING OF SIDEWALK SHALL EXTEND 18" EITHER SIDE OF ENTRANCE.
7. INSTALL 1/2" PREMOLDED EXPANSION JOINT WITH BACKER ROD & SEALANT WHERE SIDEWALK ABUTS BUILDING OR OTHER STRUCTURE.

CONCRETE SIDEWALK - 3



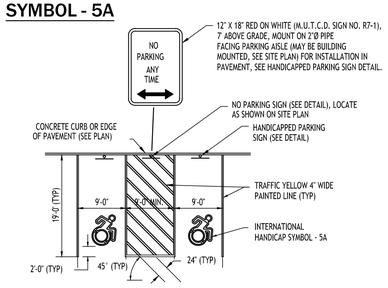
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3, WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

STANDARD DUTY ASPHALT SECTION - 4

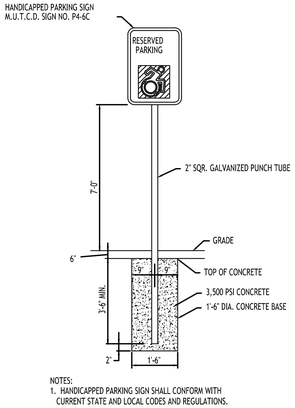


SYMBOL TO BE CENTERED IN PARKING SPACE

INTERNATIONAL HANDICAP SYMBOL - 5A



HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 5



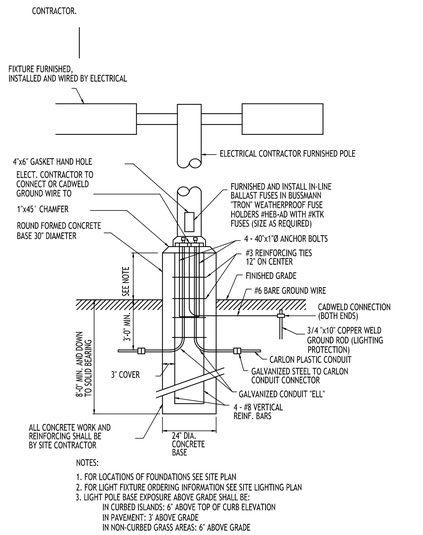
NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

HANDICAP PARKING SIGNS - 6

INSTALLED IN GRASS/LANDSCAPED AREA

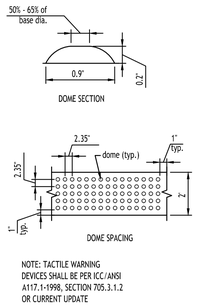
NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 7

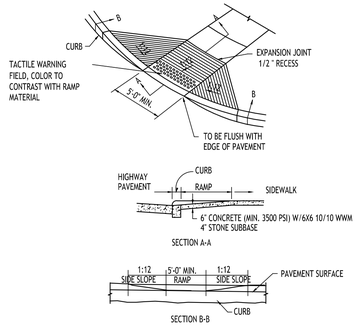


NOTES:
1. FOR LOCATIONS OF FOUNDATIONS SEE SITE PLAN
2. FOR LIGHT FIXTURE ORDERING INFORMATION SEE SITE LIGHTING PLAN
3. LIGHT POLE BASE EXPOSURE ABOVE GRADE SHALL BE:
   IN CURBED ISLANDS: 6" ABOVE TOP OF CURB ELEVATION
   IN PAVEMENT: 3" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE

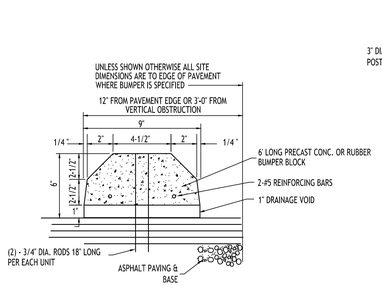
LIGHT POLE FOUNDATION - 8



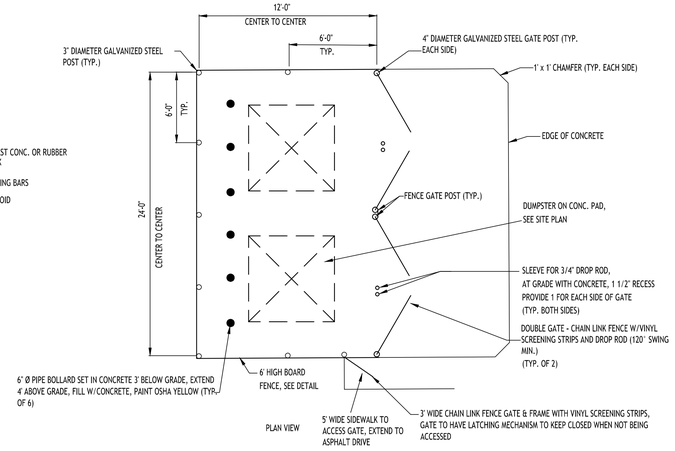
NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE



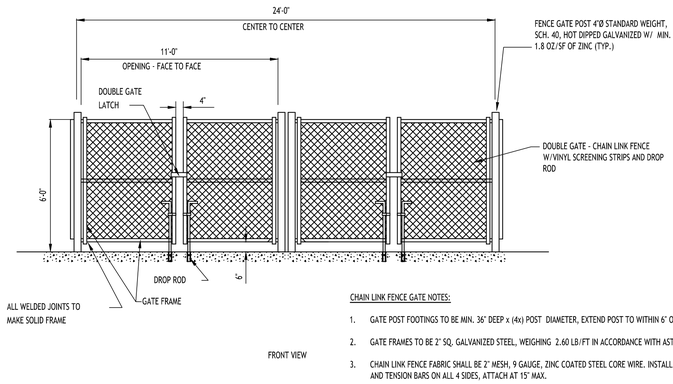
SIDEWALK CURB RAMP - 9



PRECAST PARKING BUMPER - 10



DUMPSTER ENCLOSURE - 11



CHAIN LINK FENCE GATE NOTES:
1. GATE POST FOOTINGS TO BE MIN. 36" DEEP x (4x) POST DIAMETER, EXTEND POST TO WITHIN 6" OF BOTTOM.
2. GATE FRAMES TO BE 2" SQ. GALVANIZED STEEL, WEIGHING 2.60 LB/FT IN ACCORDANCE WITH ASTM F 900.
3. CHAIN LINK FENCE FABRIC SHALL BE 2" MESH, 9 GAUGE, ZINC COATED STEEL CORE WIRE. INSTALL MESH WITH HOOK BOLTS AND TENSION BARS ON ALL 4 SIDES, ATTACH AT 15" MAX.
4. DOUBLE GATE LATCH TO BE FORKED TYPE CAPABLE OF RETAINING GATE IN CLOSED POSITION AND HAVE PROVISION FOR PAD LOCK. LATCH SHALL BE OPERABLE FROM EITHER SIDE OF GATE.
5. ALL HARDWARE TO BE HOT DIPPED GALVANIZED STEEL TO SUIT GATE SIZE.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
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Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK * CHRISTOPHER WOOD * 076994 LICENSED PROFESSIONAL ENGINEER

Sealed 11/03/2026

DRAWING NAME:
Site Details

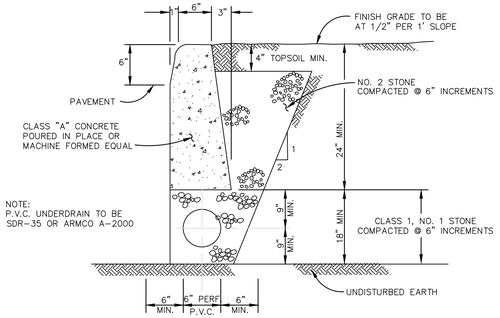
Date: 04/20/26
Drawn By: D. Feyes
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DRAWING NO.
C-101

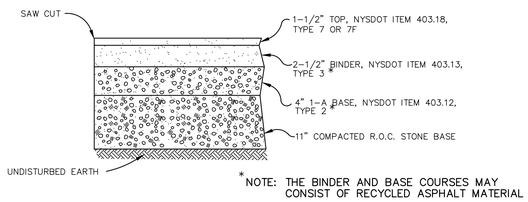
Project No: 24-4023

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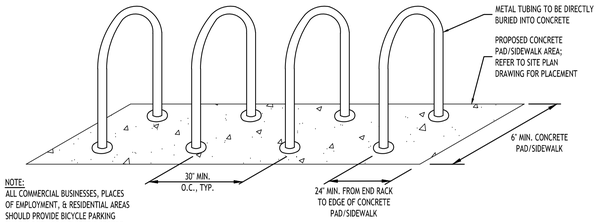


TOWN OF AMHERST – TYPE "A" CURBING DETAIL

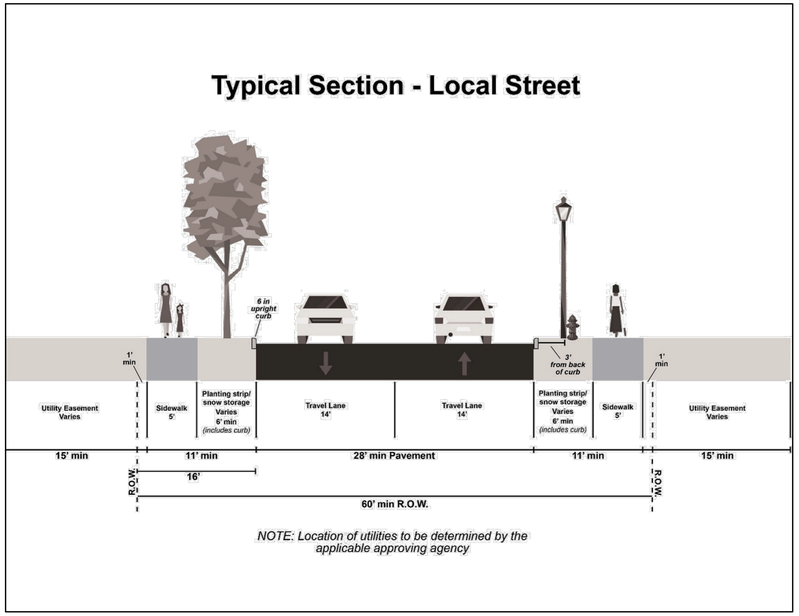


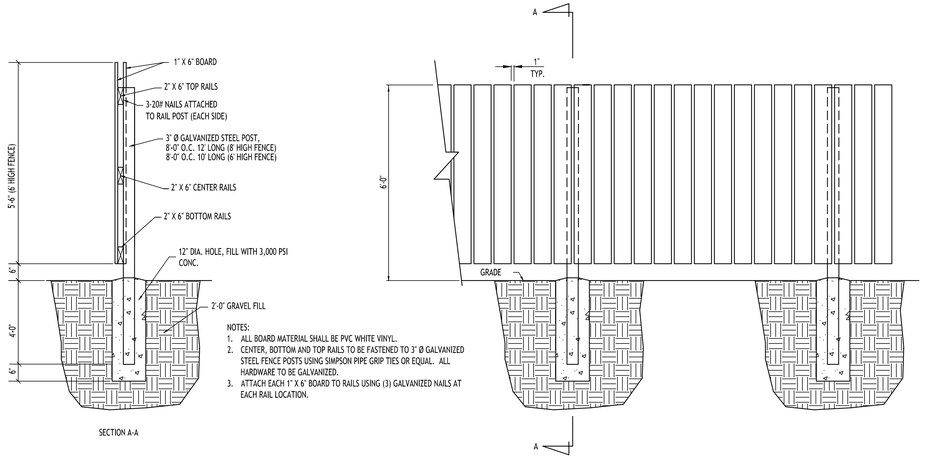
* NOTE: THE BINDER AND BASE COURSES MAY CONSIST OF RECYCLED ASPHALT MATERIAL

TOWN OF AMHERST
TYPICAL PAVEMENT SECTION



INVERTED "U" BICYLE RACK - 13
(N.T.S.)





BOARD ON BOARD FENCE - 12

TOWN OF AMHERST APPROVAL BOX:

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STATE OF NEW YORK * CHRISTOPHER R. WOOD * LICENSED PROFESSIONAL ENGINEER * 076394

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Site Details

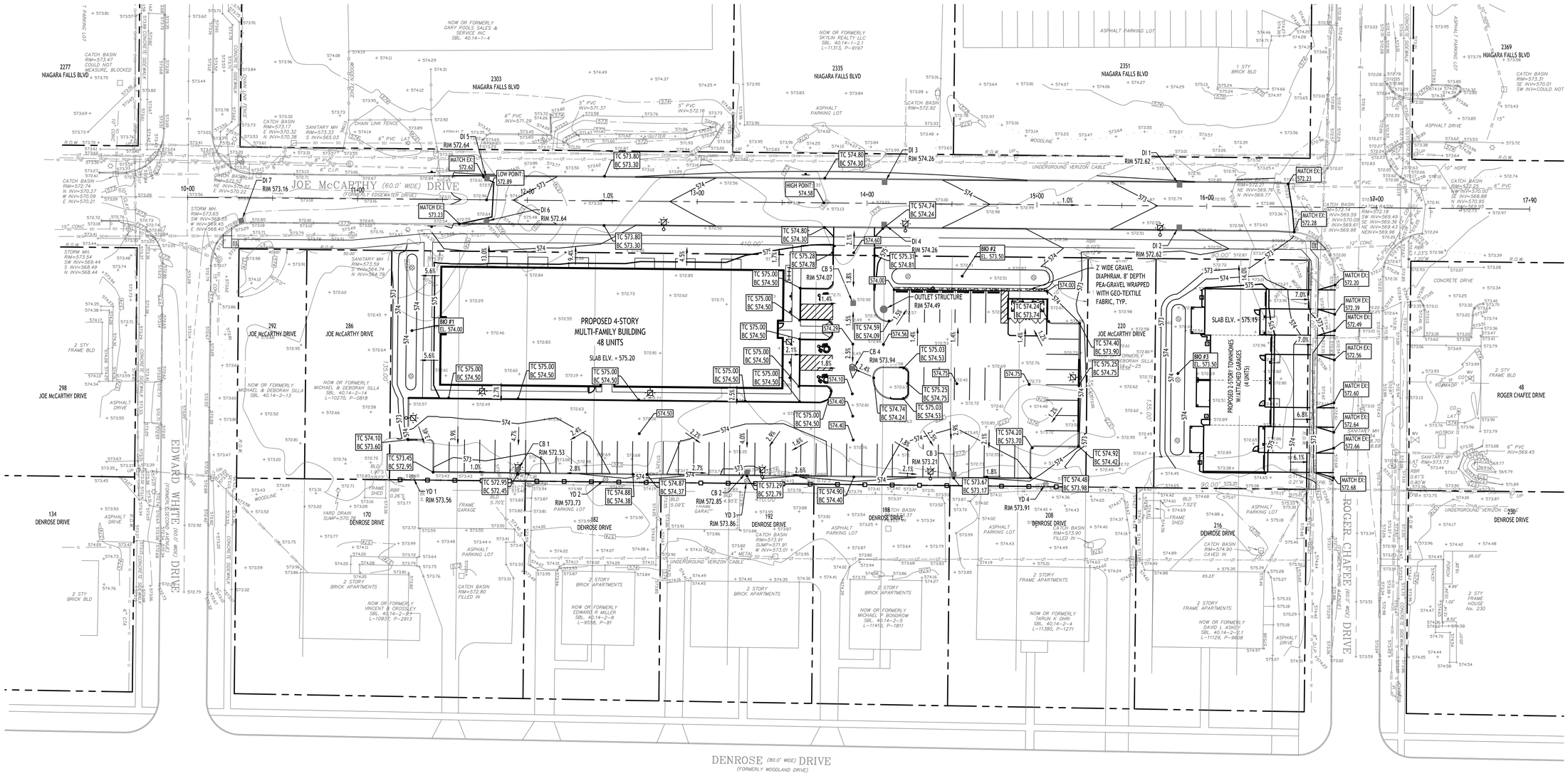
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C-102

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Grading Plan

SCALE: 1"=30'

PROPOSED GRADING LEGEND

PROPOSED CONTOUR	101
PROPOSED SPOT ELEVATION	100.80
PROPOSED TOP/BOTTOM OF CURB ELEV.	TC 100.50 BC 100.00
PROPOSED CATCH BASIN	CB
PAVEMENT/GROUND SLOPE	
PROPOSED YARD DRAIN	YD
PROPOSED MANHOLE	MH

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 30 0 30 60FT.

TOWN OF AMHERST APPROVAL BOX:

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CHRISTOPHER WOOD
076984
LICENSED PROFESSIONAL ENGINEER

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DRAWING NAME:
Grading Plan

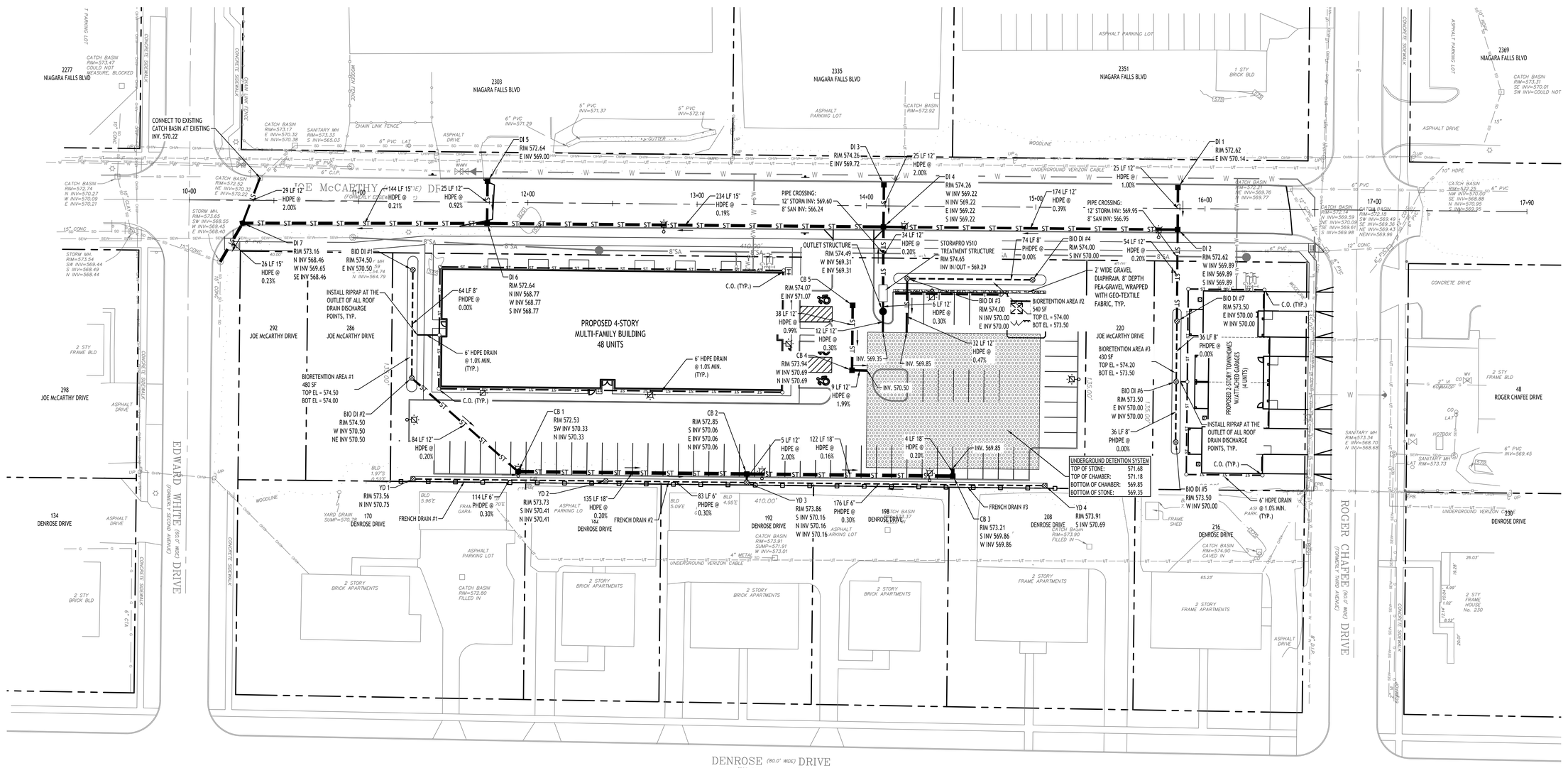
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Drawn By: D. Feyes
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DRAWING NO.
C-200

Project No: 24-4023

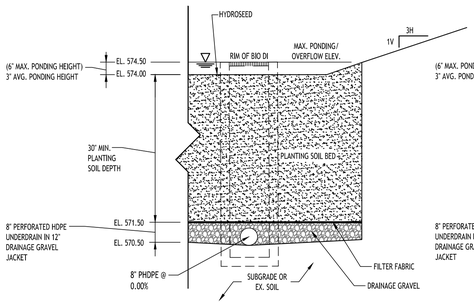
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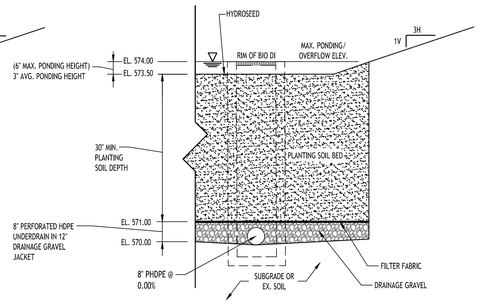


Drainage Plan

SCALE: 1"=30'



BIORETENTION AREA



BIORETENTION AREA

BIORETENTION AREA #1 - TYPICAL SECTION

NOT TO SCALE

BIORETENTION AREA #2 & #3 - TYPICAL SECTION

NOT TO SCALE

UNDERGROUND DETENTION CHAMBERS:
CHAMBER MODEL = ADS STORMTECH® SC-310 WITH CAP VOLUME
EFFECTIVE SIZE= 28.9'W X 16.0'H => 2.07 SF X 7.12'L = 14.7 CF
OVERALL SIZE= 34.0'W X 16.0'H X 7.56'L WITH 0.44' OVERLAP

34.0' WIDE + 3.0' SPACING = 37.0' C-C ROW SPACING

11 CHAMBERS/ROW X 7.12' LONG +0.60' CAP LENGTH X 2 = 79.52' ROW LENGTH +12.0' END STONE X 2 = 81.52' BASE LENGTH
30 ROWS X 34.0' WIDE + 3.0' SPACING X 29 + 12.0' SIDE STONE X 2 = 94.25' BASE WIDTH
6.0' STONE BASE + 16.0' CHAMBER HEIGHT + 6.0' STONE COVER = 2.33' FIELD HEIGHT

330 CHAMBERS X 14.7 CF = 4,864.8 CF CHAMBER STORAGE

17,927.6 CF FIELD - 4,864.8 CF CHAMBERS = 13,062.8 CF STONE X 40.0% VOIDS = 5,225.1 CF STONE STORAGE

CHAMBER STORAGE + STONE STORAGE = 10,090.0 CF = 0.232 AF
OVERALL STORAGE EFFICIENCY = 56.3%
OVERALL SYSTEM SIZE = 81.52' X 94.25' X 2.33'

330 CHAMBERS
664.0 CY FIELD
483.8 CY STONE

NOTE: CONTRACTOR TO PROVIDE SITE SPECIFIC CUT SHEETS OF UNDERGROUND DETENTION CHAMBER/PIPE SYSTEMS PRIOR TO ORDERING

PROPOSED STORMWATER DATA:

STORMWATER UNDERGROUND DETENTION SYSTEM SUMMARY

EVENT	EXISTING RUNOFF (CFS)	PROPOSED INFLOW (CFS)	PROPOSED OUTFLOW (CFS)	SYSTEM STORAGE ELEVATION (FT)	SYSTEM STORAGE (CF)
1-YEAR	1.36	4.16	1.33	570.55	3,441
10-YEAR	4.76	8.72	3.47	571.25	7,361
25-YEAR	6.55	10.82	4.34	571.58	8,537
100-YEAR	9.43	14.06	6.92	571.91	9,539

NOTE: THE TOWN OF AMHERST REQUIRES THAT THE 25-YEAR PROPOSED STORM EVENT BE ATTENUATED WITH DETENTION AND THAT THE OUTLET FLOWRATE BE RESTRICTED TO THE 10-YEAR EXISTING STORM EVENT.

NOTES:
1. FILTER FABRIC TO BE NON-WOVEN CLASS 'C', MIRAFI 180-N OR APPROVED EQUIVALENT
2. DRAINAGE GRAVEL TO MEET AASHTO M-43. NO.67, SIZE 0.25' TO 0.75'
3. CONTRACTOR TO PROVIDE PLANTING SOIL SUBMITTAL SPECIFICATION FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

NOTE: PLANTING SOIL SHALL BE LOAM/SAND MIX CONTAINING A MINIMUM OF 35 TO 60% SAND BY VOLUME AND LESS THAN 25% CLAY. SOIL SHOULD FALL WITHIN USCS TYPES SM OR ML WITH PERMEABILITY OF AT LEAST 0.5 FEET PER DAY. SOIL SHOULD BE FREE FROM STONES, STUMPS, ROOTS OR OTHER WOODY MATERIAL OVER 1" IN DIAMETER. PLACEMENT OF THE PLANTING SOIL SHOULD BE IN LIFTS OF 12" TO 18", LOOSELY COMPACTED.

CHARACTERISTICS SHALL BE:
PH RANGE: 5.2 - 7.00
ORGANIC MATTER: 1.5 - 4.0%
MAGNESIUM: 35 LBS PER ACRE MIN.
PHOSPHORUS: 75 LBS PER ACRE MIN.
POTASSIUM: 85 LBS PER ACRE MIN.
SOLUBLE SALTS: 500 PPM
CLAY: 10 TO 25%
SILT: 30 TO 55%
SAND: 35 TO 60%

Bio-retention area seeding spec (Northeast Wetland Grass Seed Mix):

Seed Mixture	Variety	Percent by No. of Seeds
Creeping Bentgrass	Agrostis stolonifera	63.0
Rough Bluegrass	Poa trivialis	17.0
Meadow Foxtail	Alopecurus arundinaceus	11.0
Annual Ryegrass	Lolium multiflorum	4.5
Deertongue	Panicum clandestinum	4.5

PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
PROPOSED YARD DRAIN	YD
PROPOSED MANHOLE	MH
PROPOSED HYDRANT ASSEMBLY	
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6' WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE:
1. ROOF LEADERS TO BE TIED TO CLEANOUTS SHOWN FOR PERIMETER DRAIN
2. ALL PUBLIC UTILITY TRENCHES SHALL BE BACKFILLED WITH SELECT FILL, INCLUDING AREAS MORE THAN 5 FEET FROM PAVED AREAS.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 0 30 60Ft.

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CHRISTOPHER WOOD
076984
LICENSED PROFESSIONAL ENGINEER

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DRAWING NAME:
Drainage Plan

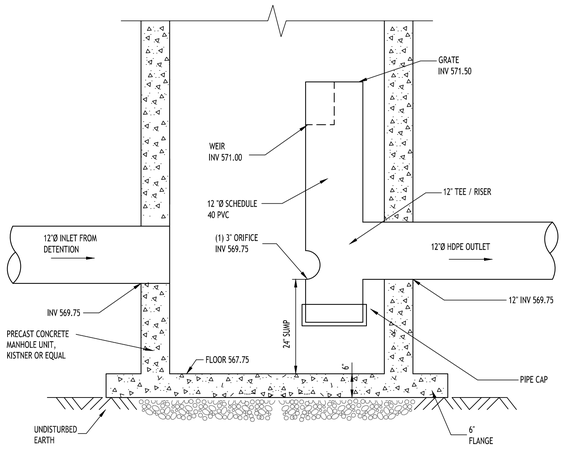
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Drawn By: D. Feyes
Scale: As Noted

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C-300

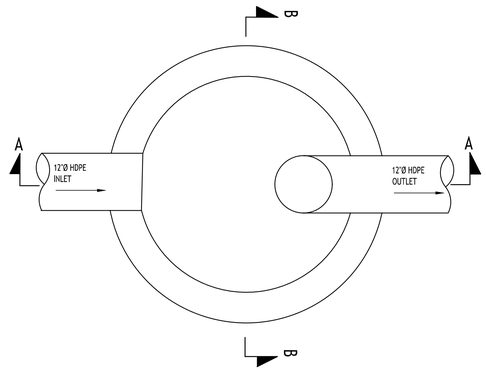
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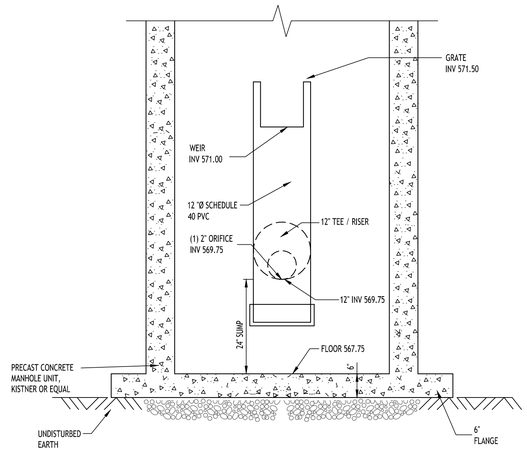


SECTION A-A



PLAN

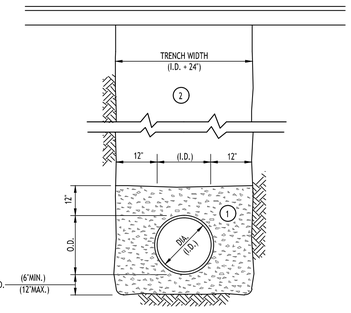
*NOTE: USE 5'-0" I.D. MANHOLE



SECTION B-B

OUTLET CONTROL STRUCTURE

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

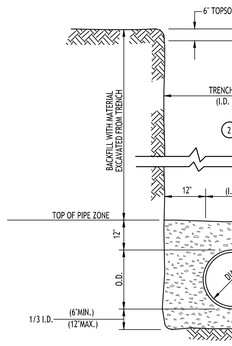
NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) TYPE 2 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 2. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN TWO INCHES AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (2)

STORM SEWER TRENCH SECTION IN PAVED AREAS

NOT TO SCALE



NOTES:

A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.

C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.

D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS

PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

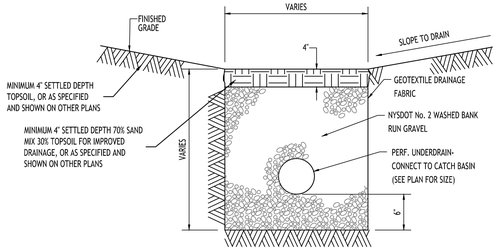
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

NO SLAG SHALL BE ALLOWED FOR MATERIAL (1)

(2) BACKFILL MATERIAL SHALL BE NATIVE SOIL CONTAINING NO UNSUITABLE MATERIAL COMPACTED IN 6' LIFTS.

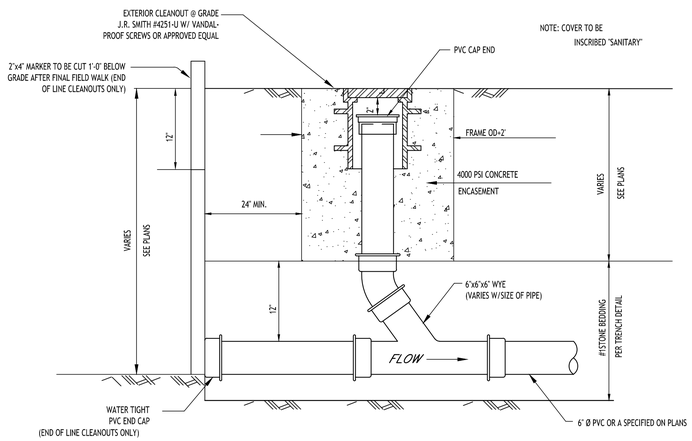
STORM SEWER TRENCH SECTION IN UNPAVED AREAS

NOT TO SCALE



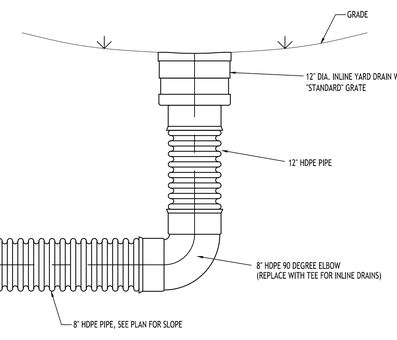
FRENCH DRAIN DETAIL IN LAWN/FIELD AREA

NOT TO SCALE



LAMPHOLE/CLEANOUT IN LAWN/FIELD AREAS

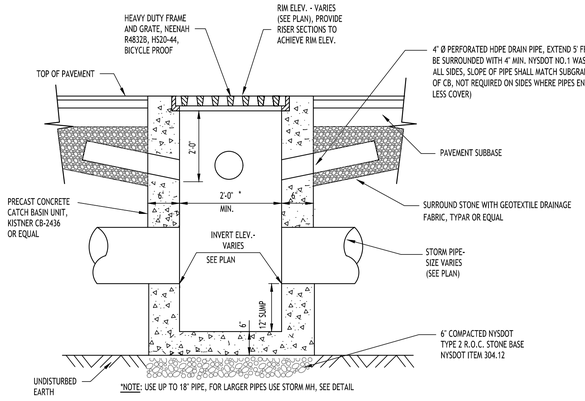
NOT TO SCALE



NOTE:
SEE TYPICAL TRENCH SECTION FOR BEDDING REQUIREMENTS

TYPICAL BIORETENTION AREA YARD DRAIN DETAIL

NOT TO SCALE



TYPICAL PRECAST CATCH BASIN

NOT TO SCALE

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STATE OF NEW YORK
CHRISTOPHER WOOD
076994
LICENSED PROFESSIONAL ENGINEER

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Drainage Details

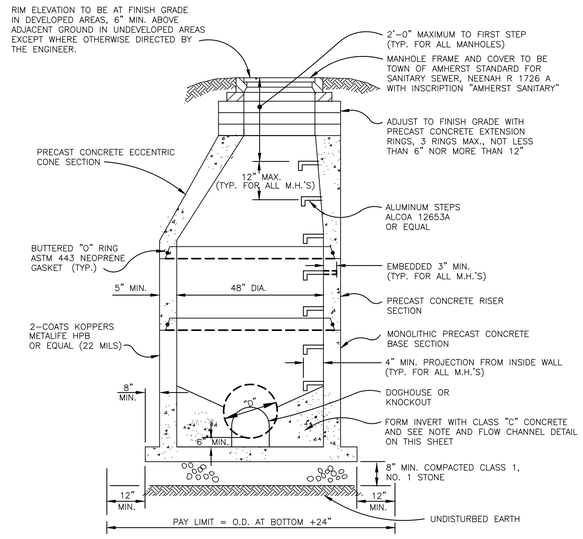
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C-301

Project No: 24-4023

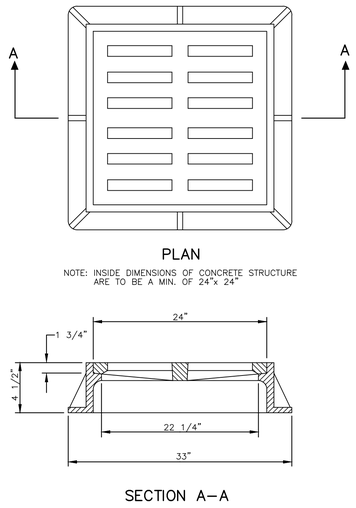
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STANDARD STORM MANHOLE

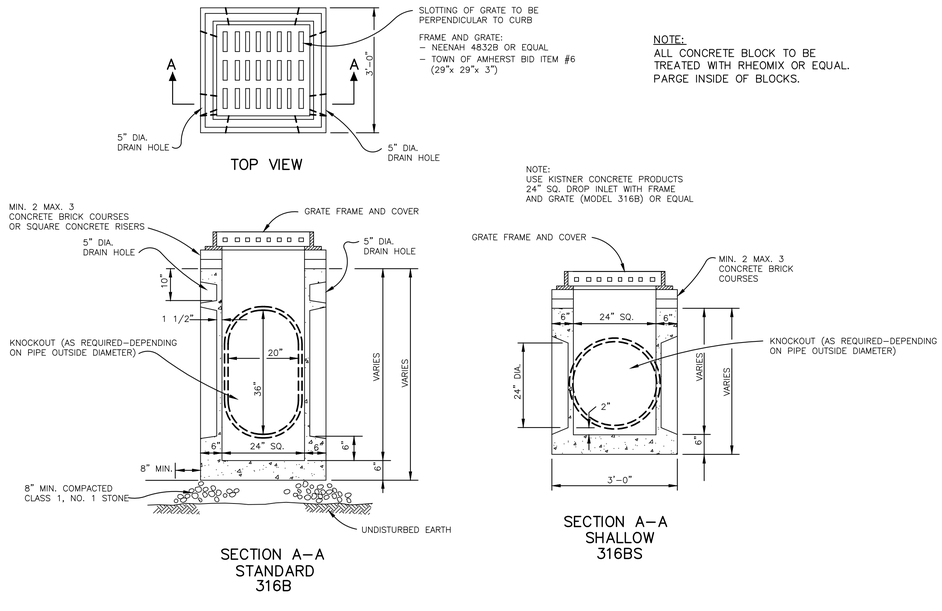
NOT TO SCALE



CAST IRON FRAME AND GRATE

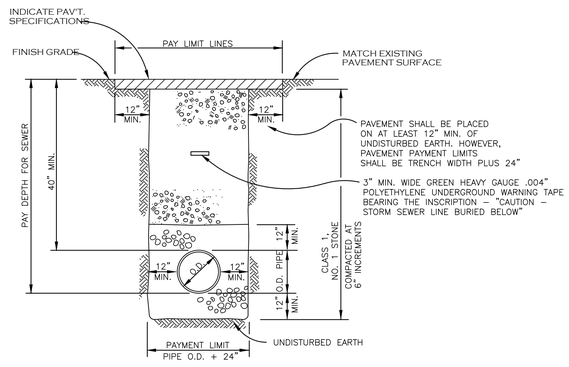
B (NEENAH R3433 OR EQUAL)

NOT TO SCALE



STANDARD PRECAST CONCRETE DROP INLET

NOT TO SCALE

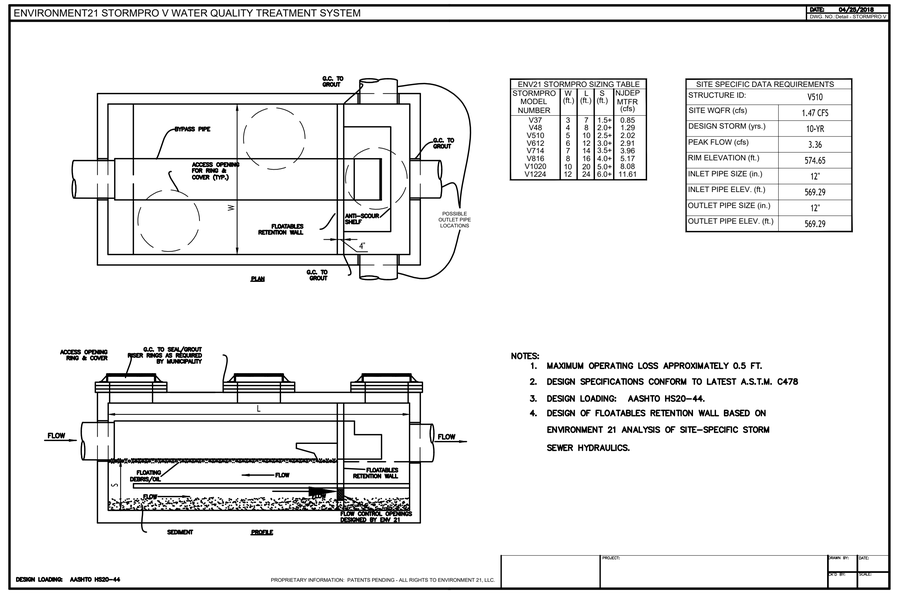


NOTE:

WHERE THE CONTRACTOR EXCAVATES BEYOND THE PAY LIMITS SHOWN : SELECT FILL AND PAVEMENT, SIDEWALK & DRIVEWAY REPLACEMENT OUTSIDE THE PAY LIMITS SHALL BE FURNISHED AND PLACED AT THE CONTRACTOR'S EXPENSE (TYP.)

TYPICAL TRENCH DETAIL
TOWN ROAD CROSSING

NOT TO SCALE



ENV21 STORMPRO SIZING TABLE				
STORMPRO MODEL NUMBER	W (ft.)	L (ft.)	S (ft.)	NJDEP MTFR (cfs)
V37	3	7	1.5+	0.85
V48	4	8	2.0+	1.29
V510	5	10	2.5+	2.02
V612	6	12	3.0+	2.91
V714	7	14	3.5+	3.96
V816	8	16	4.0+	5.17
V1020	10	20	5.0+	8.08
V1224	12	24	6.0+	11.61

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID:	V510
SITE WQFR (cfs)	1.47 CFS
DESIGN STORM (yrs.)	10-YR
PEAK FLOW (cfs)	3.36
RIM ELEVATION (ft.)	574.65
INLET PIPE SIZE (in.)	12"
INLET PIPE ELEV. (ft.)	569.29
OUTLET PIPE SIZE (in.)	12"
OUTLET PIPE ELEV. (ft.)	569.29

NOTES:

1. MAXIMUM OPERATING LOSS APPROXIMATELY 0.5 FT.
2. DESIGN SPECIFICATIONS CONFORM TO LATEST A.S.T.M. C478
3. DESIGN LOADING: AASHTO HS20–44.
4. DESIGN OF FLOATABLES RETENTION WALL BASED ON ENVIRONMENT 21 ANALYSIS OF SITE–SPECIFIC STORM SEWER HYDRAULICS.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN

Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK * CHRISTOPHER WOOD * LICENSED PROFESSIONAL ENGINEER * 076994

Sealed 11/03/2026

DRAWING NAME:

Drainage Details

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

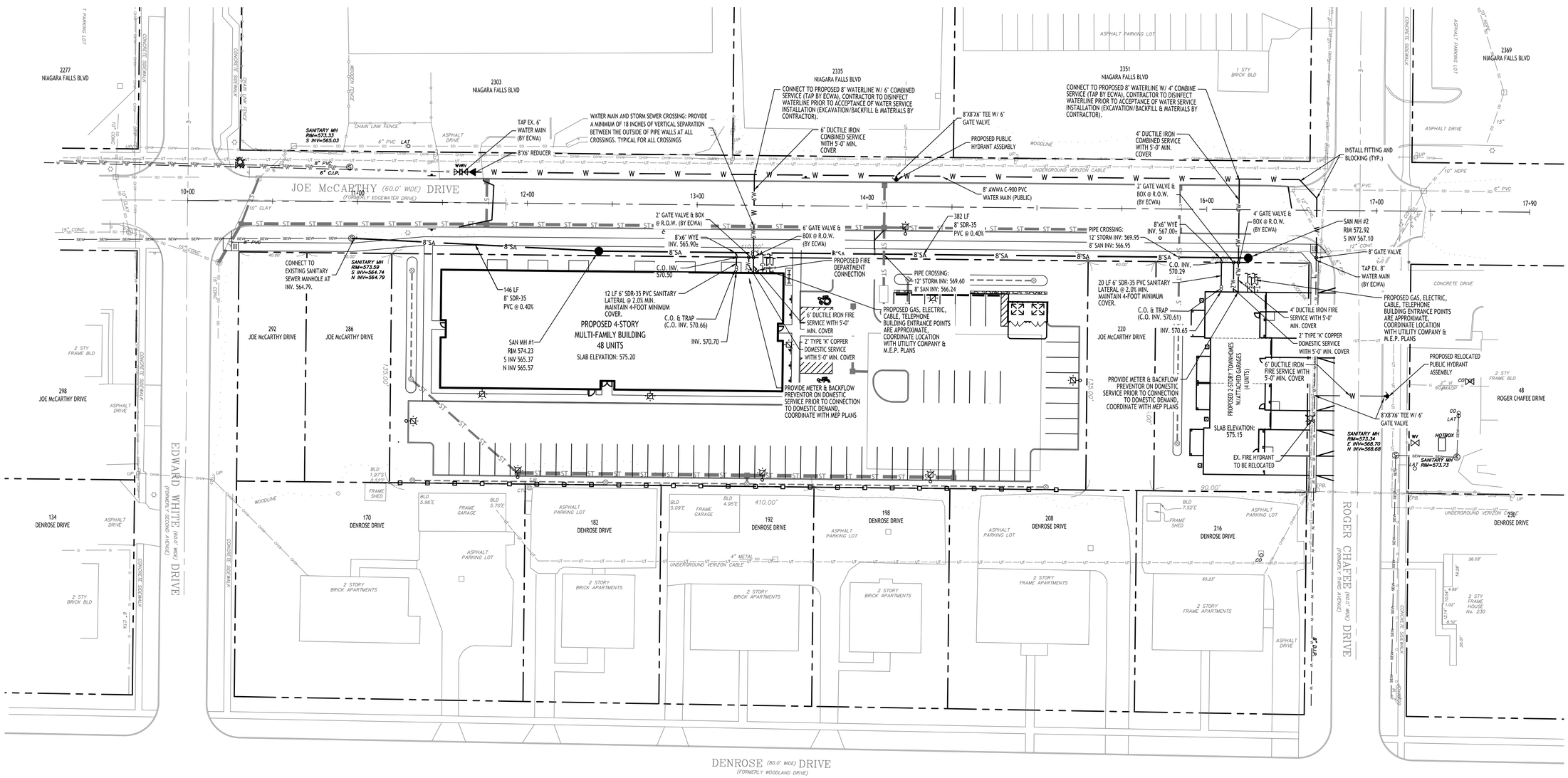
DRAWING NO.

C-302

Project No: 24-4023

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Utility Plan

SCALE: 1"=30'

WATER UTILITY NOTES

1. ALL WATERLINE SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF AMHERST AND ERIE COUNTY WATER AUTHORITY REQUIREMENTS.
2. PVC WATERLINE PIPE SHALL CONFORM TO AWWA C900 SPECIFICATIONS OR APPROVED EQUAL.
3. DUCTILE IRON WATERLINE PIPE SHALL CONFORM TO ANSI/AWWA C151/A21.51 SPECIFICATIONS, CLASS 52. HYDRANT BRANCHES SHALL BE CLASS 53 DUCTILE IRON PIPE.
4. PIPING SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH AWWA C600 82 FOR DUCTILE IRON WATERMAINS OR AWWA C900 FOR PVC PIPE. PVC PIPE INSTALLATION AND TESTING SHALL ALSO BE IN ACCORDANCE WITH AWWA MANUAL M23.
5. THE MAXIMUM DEGREE OF DEFLECTION AT WATERLINE JOINTS SHALL NOT EXCEED ONE HALF OF THE PIPE MANUFACTURER'S RECOMMENDED DEGREE OF DEFLECTION AND SHALL MEET ECWA STANDARDS. DEVIATIONS SHALL REQUIRE BENDS WITH RESTRAINED JOINTS.
6. FIELD CONDITIONS MAY REQUIRE MINOR ALIGNMENT AND BEND LOCATION ADJUSTMENTS, PROVIDED MINIMUM OFFSETS FROM OTHER UTILITIES AND MAXIMUM ALLOWABLE JOINT DEFLECTIONS ARE MAINTAINED.
7. WATERLINE CROSSINGS WITH SANITARY AND STORM SEWERS SHALL MAINTAIN A MINIMUM 18 INCHES OF SEPARATION. MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES VERTICAL SEPARATION BETWEEN SANITARY SEWERS AND WATER SERVICES. INSTALL BENDS, BLOCKING, AND PIPE RESTRAINTS AS REQUIRED.
8. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651 AND ECWA REQUIREMENTS. BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT SAMPLING POINTS LOCATED AT APPROXIMATELY 1,000 FOOT INTERVALS MAXIMUM AND BETWEEN LINE VALVES.

SANITARY SEWER AND GENERAL UTILITY NOTES

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO TOWN OF AMHERST SPECIFICATIONS AND DETAILS, TOWN OF AMHERST SEWER DISTRICT RULES AND REGULATIONS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. BEFORE STARTING WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST TO DISCUSS AND AGREE ON THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO UTILITY INSTALLATION AND SHALL BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL OTHER REQUIRED PERMITS FROM NEW YORK STATE, ERIE COUNTY, AND THE TOWN OF AMHERST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR OR DEVELOPER.
5. COORDINATE GAS AND ELECTRIC METER BANK LOCATIONS ON BUILDINGS WITH THE MEP PLANS AND UTILITY COMPANIES.
6. COORDINATE CABLE TELEVISION AND TELEPHONE SERVICE LOCATIONS TO BUILDINGS WITH THE MEP PLANS AND UTILITY COMPANIES.
7. BUILDING SANITARY SEWER INVERTS SHALL BE A MINIMUM OF 4.5 FEET BELOW BUILDING FINISHED FLOOR ELEVATIONS. SANITARY SEWER PIPE SHALL BE 6 INCH SDR 35 PVC AT A MINIMUM SLOPE OF 2.0 PERCENT, WITH A MINIMUM OF 4.0 FEET OF COVER.
8. ALL PUBLIC UTILITY TRENCHES SHALL BE BACKFILLED WITH SELECT FILL, INCLUDING TRENCHES MORE THAN 5 FEET FROM PAVED AREAS.
9. ALL SANITARY SEWER TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TOWN OF AMHERST REQUIREMENTS AND THE MOST CURRENT ECDSM SPECIFICATIONS.
10. ALL STORM SEWER, WATER MAIN, AND SANITARY SEWER IMPROVEMENTS WITHIN THE JOE MCCARTHY DRIVE RIGHT OF WAY SHALL BE PUBLIC. CONSTRUCTION SHALL BE PERFORMED UNDER A PUBLIC IMPROVEMENT PERMIT AND SHALL BE SUBJECT TO REVIEW AND APPROVAL BY THE TOWN ENGINEERING SERVICES DIVISION.

PROPOSED UTILITY LEGEND

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	6" SA
PROPOSED WATERLINE	1" W
PROPOSED CATCH BASIN	CB
PROPOSED YARD DRAIN	YD
PROPOSED MANHOLE	MH
PROPOSED HYDRANT ASSEMBLY	
PROPOSED GATE VALVE	GV

NOTE: FOR PROPOSED VALVE BOXES, CLEANOUTS, ETC., INSTALL A 3,000 PSI CONCRETE COLLAR AROUND THE ITEM AT GRADE. THE COLLAR SHALL BE A MINIMUM OF 6" WIDER, ON ALL SIDES, THAN THE BOX, CLEANOUT, ETC. THE COLLAR SHALL BE A MINIMUM OF 6" THICK.

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS. CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 30 0 30 60Ft.

PROJECT DESCRIPTION

INSTALL THE FOLLOWING IN THE PROPOSED MULTI-FAMILY PROJECT IN THE TOWN OF AMHERST UNDER AN E.C.W.A. BUILDER, CONTRACTOR, DEVELOPER AGREEMENT:
8" C-900 P.V.C. WATERMAIN - 540± LF
FIRE HYDRANTS - 1

EXECUTIVE ENGINEER - E.C.W.A. DATE
TOWN ENGINEER - TOWN OF AMHERST DATE
FIRE CHIEF - TOWN OF AMHERST DATE

TOWN OF AMHERST APPROVAL BOX:

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Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
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No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076984
STATE OF NEW YORK
Sealed 11/03/2026

DRAWING NAME:
Utility Plan

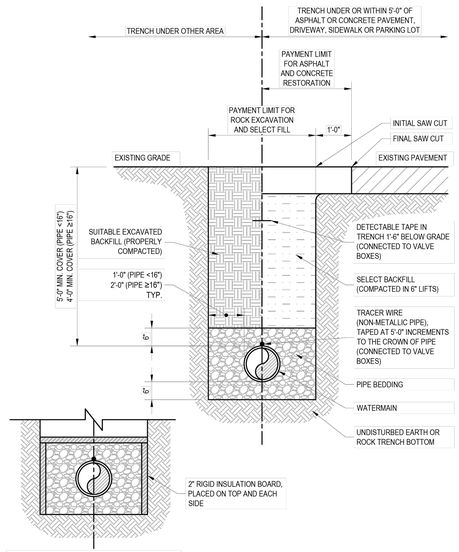
Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
C-400

Project No: 24-4023

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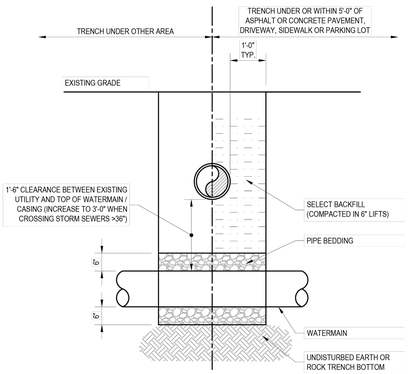
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FROST PROTECTION TRENCH
(COVER <4'-0")
ECWA APPROVAL REQUIRED

TYPICAL TRENCH DETAIL
SCALE: NTS

Revision: 2024-01
Detail: SD-01

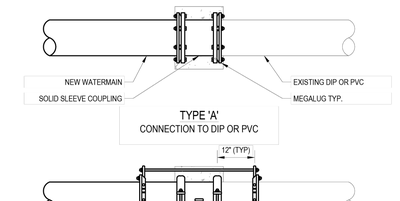


NOTES:

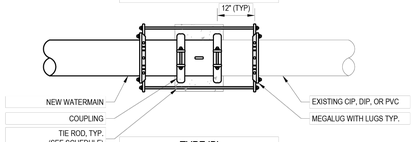
1. ALL EXISTING UTILITIES MUST BE SUPPORTED WITH APPROPRIATE CHAINS / STRAPS DURING CONSTRUCTION OF THE NEW WATERMAIN. CONTRACTOR IS REQUIRED TO COORDINATE WITH THE OWNER FOR THEIR PREFERRED SUPPORT REQUIREMENTS.
2. WHEN CROSSING A SEWER LINE WITH NEW WATERMAIN (AND WITHOUT A CASING PIPE), ONE FULL LENGTH (18'-0" MIN.) SHALL BE USED AT THE POINT OF CROSSING. THE WATERMAIN SHALL BE PLACED SO THAT BOTH JOINT ENDS ARE AS FAR AS POSSIBLE FROM THE EXISTING SEWER.
3. IF CASING PIPE IS USED, IT SHALL EXTEND 5'-0" BEYOND THE EXISTING PIPE OUTER EDGE IN EACH DIRECTION, AND NO WATERMAIN JOINTS OR FITTINGS SHALL BE LOCATED WITHIN 4'-0" FROM THE CASING PIPE EDGE.

PIPE CROSSING DETAIL
SCALE: NTS

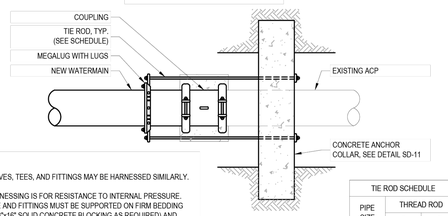
Revision: 2024-01
Detail: SD-02



TYPE 'A'
CONNECTION TO DIP OR PVC



TYPE 'B'
CONNECTION TO CIP, DIP, OR PVC



TYPE 'C'
CONNECTION TO ACP

NOTES:

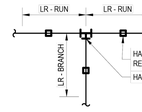
1. VALVES, TEES, AND FITTINGS MAY BE HARNESSED SIMILARLY.
2. HARNESSING IS FOR RESISTANCE TO INTERNAL PRESSURE. PIPE AND FITTINGS MUST BE SUPPORTED ON FIRM BEDDING (4"x8"x16" SOLID CONCRETE BLOCKING AS REQUIRED) AND BACKFILLED CAREFULLY.
3. COAT ALL EXPOSED SURFACES OF HARNESS ASSEMBLY WITH BITUMINOUS COATING.
4. TIE RODS SHALL BE PLACED ON SIDES OF PIPE.

TIE ROD SCHEDULE

PIPE SIZE	THREAD ROD #	THREAD ROD Ø

TYPICAL CONNECTION TO EXISTING WATERMAIN
SCALE: NTS

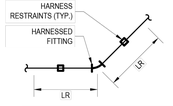
Revision: 2024-01
Detail: SD-08



TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH	TEE SIZE (RUN x BRANCH)	LR RUN	LR BRANCH
8"x 6"	5'	40'	12"x 10"	5'	80'
8"x 8"	5'	70'	12"x 12"	5'	110'
10"x 6"	5'	30'	16"x 6"	5'	20'
10"x 8"	5'	60'	16"x 8"	5'	35'
10"x 10"	5'	90'	16"x 10"	5'	65'
12"x 6"	5'	20'	16"x 12"	5'	90'
12"x 8"	5'	55'	16"x 16"	5'	145'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

TEES



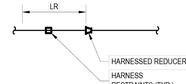
PIPE SIZE	LR 90° BEND	LR 45° BEND	LR 22.5° BEND	LR 11.25° BEND
6"	35'	15'	10'	5'
8"	40'	20'	10'	5'
10"	55'	25'	15'	10'
12"	60'	30'	15'	10'
16"	80'	35'	20'	10'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

NOTE:

BACK TO BACK FITTINGS WITHIN 5' OF EACH OTHER SHALL BE RESTRAINED AT LENGTHS OF 2 TIMES THE FITTING DEGREES (I.E. 2- 45° = 90° RESTRAINT LENGTH)

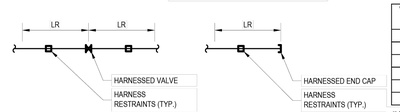
BENDS



REDUCER SIZE	LR	REDUCER SIZE	LR
6"x 4"	40'	12"x 8"	75'
8"x 4"	70'	12"x 10"	40'
8"x 6"	45'	16"x 6"	150'
10"x 6"	75'	16"x 8"	130'
10"x 8"	40'	16"x 10"	105'
12"x 6"	100'	16"x 12"	75'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

REDUCERS



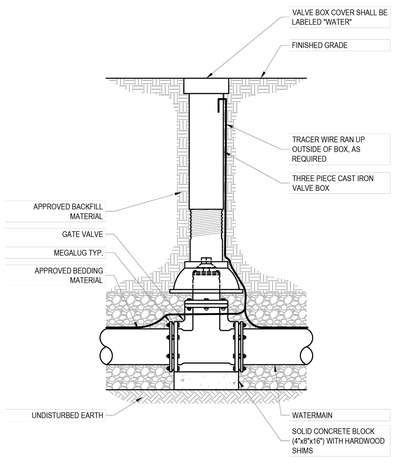
VALVE/END CAP SIZE	LR
4"	55'
6"	75'
8"	100'
10"	115'
12'	140'
16"	175'

*LENGTHS SHOWN ARE MINIMUM REQUIREMENTS

VALVES / END CAPS

RESTRAINED JOINT SCHEDULE
SCALE: NTS

Revision: 2024-01
Detail: SD-09

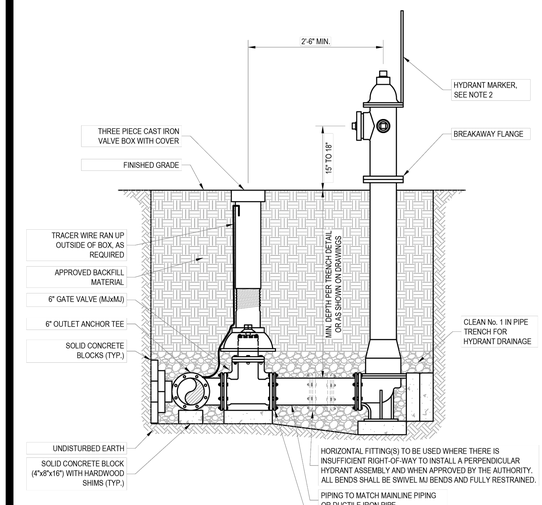


NOTES:

1. VALVE SHALL NOT SUPPORT VALVE BOX.
2. GATE VALVE SHALL BE INSTALLED LEVEL AND VERTICALLY PLUMB.
3. VALVE BOX SHALL BE PLUMB TO GRADE, WITH OPERATING NUT CENTERED IN BOX.

GATE VALVE SETTING
SCALE: NTS

Revision: 2024-01
Detail: SD-12

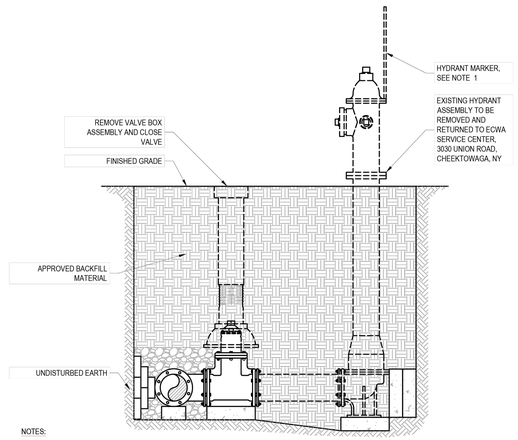


NOTES:

1. HYDRANT RISER SHALL BE INSTALLED PLUMB
2. FOR WATERMAIN REPLACEMENT PROJECTS, RELOCATE EXISTING MARKERS TO NEW HYDRANTS. MUNICIPALITY SHALL BE RESPONSIBLE TO PROVIDE ANY NEW HYDRANT MARKERS AS NEEDED. CONTRACTOR TO COORDINATE WITH ALL MUNICIPALITIES AND FIRE DISTRICTS.
3. HYDRANT FACE TO BE A MINIMUM OF 3'-0" FROM THE BACK FACE OF ALL CURBS OR A MINIMUM OF 5'-0" FROM ALL EDGE OF PAVEMENT.

HYDRANT ASSEMBLY INSTALLATION
SCALE: NTS

Revision: 2024-01
Detail: SD-16



NOTES:

1. REMOVE HYDRANT MARKER AND RELOCATE TO NEW HYDRANT OR RETURN TO APPROPRIATE MUNICIPALITY/FIRE DISTRICT.
2. WHEN WATERMAIN IS TO BE ABANDONED, DEPRESSURIZE WATERMAIN AND CLOSE HYDRANT VALVE. EXCAVATE HYDRANT ASSEMBLY AND CAREFULLY DISCONNECT HYDRANT FROM GATE VALVE. DO NOT FORCE HYDRANT FROM VALVE WITHOUT PROPERLY DISCONNECTING.
3. WHEN WATERMAIN IS TO REMAIN IN SERVICE, PERFORM SCHEDULED SHUTDOWN OF WATERMAIN, REMOVE HYDRANT TEE, HYDRANT TEE, AND REPLACE WITH NEW PIPE AND COUPLINGS.
4. REMOVE HYDRANT, HYDRANT PIPING, VALVE BOX AND COVER.
5. REMOVE ANY EXISTING CONCRETE BLOCKING AND FILL EXCAVATION WITH SUITABLE BACKFILL MATERIALS. COMPACT BACKFILL MATERIALS APPROPRIATELY.
6. REGRADE SURFACE TO ENSURE PROPER DRAINAGE. RESTORE SURFACE APPROPRIATELY USING ASPHALT, CONCRETE, AND/OR TOPSOIL AND SEED.

HYDRANT ASSEMBLY ABANDONMENT
SCALE: NTS

Revision: 2024-01
Detail: SD-19

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8" C-900 P.V.C. WATERMAIN - 540± LF
FIRE HYDRANTS - 1

EXECUTIVE ENGINEER - E.C.W.A. _____ DATE
TOWN ENGINEER - TOWN OF AMHERST _____ DATE
FIRE CHIEF - TOWN OF AMHERST _____ DATE

TOWN OF AMHERST APPROVAL BOX:

STATE OF NEW YORK * CHRISTOPHER WOOD * LICENSED PROFESSIONAL ENGINEER * 076394

Sealed 11/03/2026

DRAWING NAME:
Utility Details

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

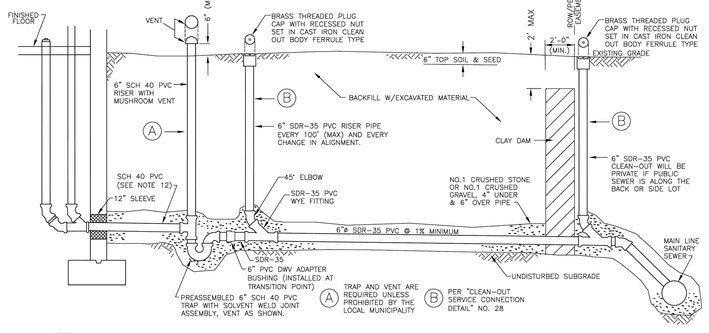
DRAWING NO.
C-401

Project No: 24-4023

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TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL (NEW BUILDS)
(MARCH 2026)



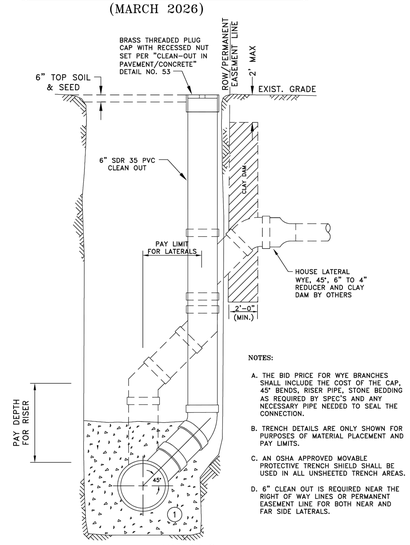
NOTES:
1. NO INSPECTION WILL BE PROVIDED WITHOUT A PERMIT. INSPECTIONS REQUIRE 48 HR. ADVANCE NOTICE FOR SCHEDULING.
2. ALL WORK MUST BE INSPECTED BY A COUNTY INSPECTOR.
3. PVC PIPE MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST ASTM SPECIFICATION D-3033/D-3034.
4. CLEANOUTS MUST BE INSTALLED IN LAWN AREAS. IF NOT FEASIBLE FOLLOW "CLEAN-OUT IN PAVEMENT/SIDEWALKS DETAIL" NO. 53
5. SELECT BACKFILL REQUIRED UNDER PAVED AREAS.
6. CONCRETE ENCASEMENT IF COVER DEPTH IS LESS THAN 4'-0" UNDER PAVED AREAS.
7. MIN. DEPTH OF COVER 3'-0".
8. CLEANOUT MEASUREMENTS SHALL START FROM CENTERLINE OF MAIN SEWER FOR NEARSIDE LATERALS AND FROM THE 6" CLEANOUT FOR FAR SIDE CONNECTIONS. A CLEANOUT MAY BE REQUIRED EVERY 100' FOR CHANGES IN LATERAL DIRECTION FLOW.
9. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE COMPLETELY ENCLOSED IN FENCING, OR WHERE NECESSARY, COVERED WITH STEEL PLATES.
10. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS ARE NOT PERMITTED TO BE CONNECTED TO THE LATERAL.
11. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED.
12. 6" CAST IRON IS USED EXTEND THE BUILDING, A MISSION COUPLING IS REQUIRED BEFORE THE TRAP.
13. 6" CLEAN OUT IS REQUIRED NEAR THE RIGHT OF WAY OR PERMANENT EASEMENT LINE FOR BOTH NEAR SIDE AND FAR SIDE LATERALS.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 11/08	ADDED SLEEVE AND PVC-SDR 35	STD. DETAIL
Rev. 1/12	REVISED 6" CAST IRON TRAP NOTE	22
Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
Rev. 11/23	ADDED VENT, RISER, TRAP ASSEMBLY & (A)	
Rev. 3/24	CHANGED VENT, RISER, TRAP ASSEMBLY SCH 40	
Rev. 11/25	ADDED NEAR SIDE C.O.(B) ADD NOTE 14 DELETE 9	
Rev. 3/26	ADDED NOTE 14 CHANGED NOTE 4	
File: D-22	Date: 3/1/91	

File: C:\Users\jordan\Desktop\Everything\2-22 WATER 2026.dwg, Last saved: 2/24/2026, Plot Date: 2/24/2026, Plot Style: DETAILS.CTB

RISER DETAIL - SDR-35
(MAIN LINE LATERAL CONNECTION)
(MARCH 2026)



NOTES:
A. THE BID PRICE FOR WYE BRANCHES SHALL INCLUDE THE COST OF THE CAP, 45° BENDS, RISER PIPE, STONE BEDDING AS REQUIRED BY SPEC'S AND ANY NECESSARY PIPE NEEDED TO SEAL THE CONNECTION.
B. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND PAY LIMITS.
C. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.
D. 6" CLEAN OUT IS REQUIRED NEAR THE RIGHT OF WAY LINES OR PERMANENT EASEMENT LINE FOR BOTH NEAR AND FAR SIDE LATERALS.

MATERIALS
PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

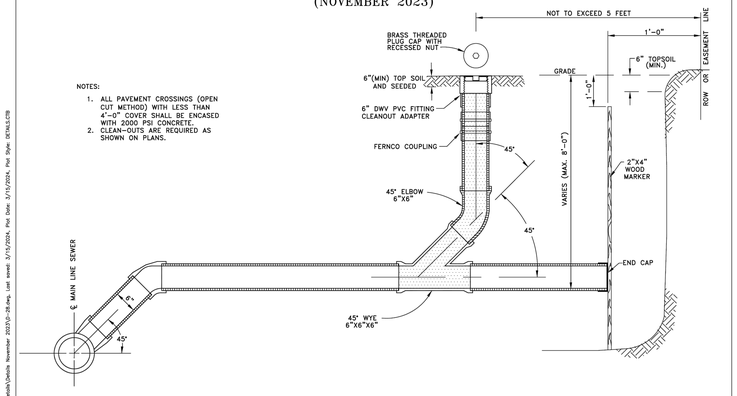
(1) NO. 1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER. NO SLAG WILL BE ALLOWED.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev 2	1/97 ADDED 1/8 BELL&SPIGOT LONG SWEEP	STD.DETAIL
Rev. 3	12/01 ADDED NOTE D VENTS & CO'S	27
Rev. 4	5/02 CHANGED LONG SWEEP TO NORMAL 45° ADDED CAPS & CORRECTED PAY LIMITS	
Rev 5	11/05 ADDED NEAR SIDE CO, DELETE NOTE B	
Rev 6	3/26 ADDED NOTE D NEAR & FAR SIDE CO	
File: D-27	Date: 3/1/91	

File: C:\Users\jordan\Desktop\Everything\2-27 WATER 2026.dwg, Last saved: 2/24/2026, Plot Date: 2/24/2026, Plot Style: DETAILS.CTB

CLEAN-OUT DETAIL FOR SERVICE CONNECTION
(NOVEMBER 2023)



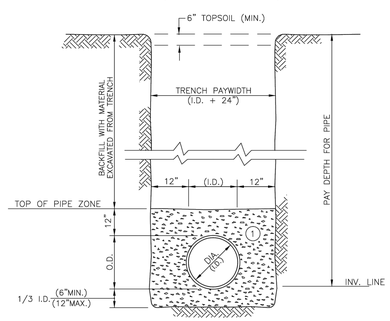
NOTES:
1. ALL PAVEMENT CROSSINGS (OPEN CUT METHOD) WITH LESS THAN 4'-0" COVER SHALL BE ENCASED WITH 2000 PSI CONCRETE.
2. CLEAN-OUTS ARE REQUIRED AS SHOWN ON PLANS.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1	2/94 CHANGED DIM LINE FOR MAX. DEPTH	STD. DETAIL
Rev. 2	12/01 ADDED NOTE 7	28
Rev. 3	5/02 CHANGED C.I. CAP TO BRASS	
Rev. 4	6/05 1' MIN. FROM EDGE OF WALK NOTE	
Rev. 5	1/13 CHANGED C.I. TO BRASS NOTES 1 & 3	
Rev. 5	3/24 REVISED NOTES & REMOVED CAST IRON	
File: D-28	Date: 3/1/91	

File: V:\2024\Engineering\CAD\Details\Everything\2-28.dwg, Last saved: 3/15/2024, Plot Date: 3/15/2024, Plot Style: DETAILS.CTB

UNSHEETED TRENCH DETAIL
(NOVEMBER 2023)



NOTES:
A. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
B. TRENCHING OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING.
C. TRENCH DETAILS ARE ONLY SHOWN FOR PURPOSES OF MATERIAL PLACEMENT AND MAXIMUM PAY LIMITS.
D. AN OSHA APPROVED MOVABLE PROTECTIVE TRENCH SHIELD SHALL BE USED IN ALL UNSHEETED TRENCH AREAS.

MATERIALS
PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

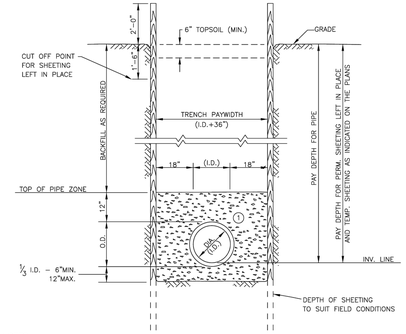
(1) NO.1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1" AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1 5/20/93	NOTE 2: PIPE INSTALLATION	STD.DETAIL
Rev. 2 2/7/94	ADDED NOTE C & D	1
File: D-01	Date: 3/1/91	

File: V:\2024\Engineering\CAD\Details\Everything\2-01.dwg, Last saved: 12/11/2023, Plot Date: 12/11/2023, Plot Style: DETAILS.CTB

SHEETED TRENCH
(NOVEMBER 2023)



NOTES:
1. MAINTAIN 18" BETWEEN PIPE AND INSIDE FACE OF TEMPORARY SHEETING. IF SHEETING EXTENDS BELOW PIPE INVERT AS SHOWN, WHEN PVC PIPE MATERIAL IS USED, COMPACT MATERIAL (1) BEFORE PULLING THE SHEETING.
2. SHEETED TRENCH OPERATIONS SHALL INCLUDE ALL NECESSARY DEWATERING EQUIPMENT.
3. SHEETING DRIVEN BELOW THE INVERT OF THE PIPE FOR BEDDING MATERIAL AND TOE SUPPORT WILL NOT BE CONSIDERED IN THE FORMULA FOR PAYMENT BUT SHOULD BE FIGURED BY THE CONTRACTOR IN DETERMINING HIS UNIT BID PRICE PER SQUARE FOOT OF SHEETING.
4. WHERE INDICATED ON THE PLANS OR AS ORDERED BY THE ENGINEER, TEMPORARY SHEETING WILL BE PAID FOR UNDER THE APPLICABLE BID ITEM. OTHER AREAS WHERE THE CONTRACTOR ELECTS TO USE TEMPORARY SHEETING NOT PREVIOUSLY AUTHORIZED BY THE ENGINEER SHALL BE AT HIS OPTION AND EXPENSE.

MATERIALS
PIPE BEDDING MATERIAL (NYSDOT LATEST EDITION)

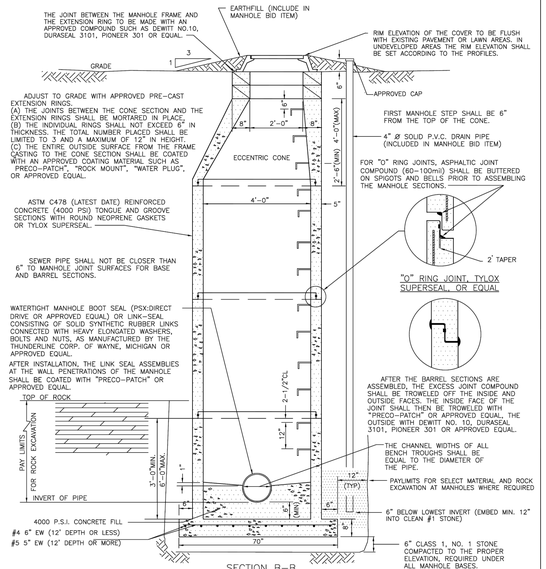
(1) NO.1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1" AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE TO THE PIPE MANUFACTURER.

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

Rev. 1 2/7/94	REVISED TOPSOIL DIMENSION	STD.DETAIL
Rev. 2 6/5/06	UPDATED MATERIALS TO NYSDOT LATEST EDITION	2
File: D-02	Date: 3/1/91	

File: V:\2024\Engineering\CAD\Details\Details November 2023\2-02.dwg, Last saved: 12/11/2023, Plot Date: 12/11/2023, Plot Style: DETAILS.CTB

MONOLITHIC PRECAST BASE MANHOLES 4'-0" DIA. BASE FOR 15"ø SEWERS OR LESS (SECTION B-B)
(NOVEMBER 2023)



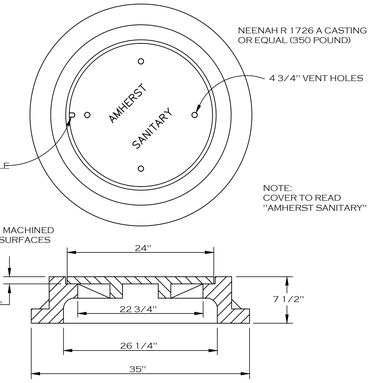
SECTION B-B

Revisions

07/15/99	ADD ROCK EXCAVATION PAYLIMITS	STD.DETAIL
11/23/99	ADD 4"x4"x6" MARKER AND NOTES	11
12/01	REVISED 4" P.V.C. TO SOLID PIPE	
03/04/03	ADDED WATER TIGHT BOOT SEAL NOTE	
06/22/05	ADDED TYLOX SUPERSEAL NOTES	
02/27/07	REMOVED WOOD POST AND NOTES. CHANGED THE NUMBER OF EXTENSION RINGS FROM 2 TO 3	
File: D-11	Date: 3/1/91	

ERIE COUNTY
DEPT. OF ENVIRONMENT & PLANNING
DIVISION OF SEWERAGE MANAGEMENT

File: V:\2024\Engineering\CAD\Details\Details November 2023\11-11.dwg, Last saved: 12/5/2023, Plot Date: 12/11/2023, Plot Style: DETAILS.CTB



TOWN OF AMHERST
STANDARD MANHOLE FRAME AND COVER
VENTED COVER

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK · CHRISTOPHER WOOD · 076394 · LICENSED PROFESSIONAL ENGINEER

Sealed 11/03/2026

DRAWING NAME:
Utility Details

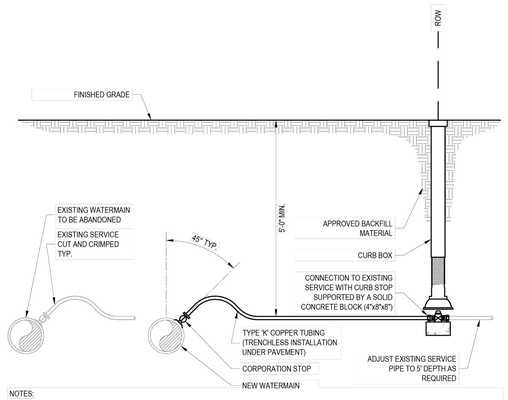
Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
C-402

Project No: 24-4023

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NOTES:

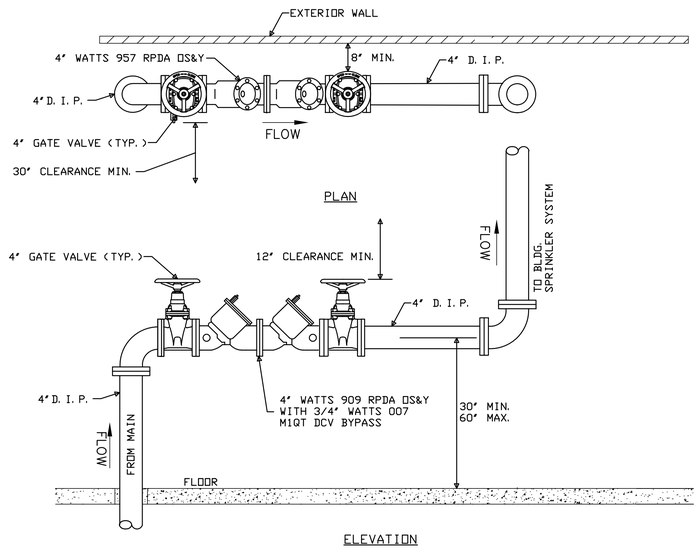
1. EXISTING SERVICES SHALL BE CRIMPED AND ABANDONED IN PLACE.
2. SERVICE SADDLES SHALL BE USED UNDER THE FOLLOWING CONDITIONS:
   - A. WHEN SERVICES ARE PLACED ON 4" OR SMALLER PIPES.
   - B. WHEN SERVICES LARGER THAN 1" ARE PLACED ON A 6" PIPE.
   - C. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON AN 8" PIPE.
   - D. WHEN SERVICES LARGER THAN 1.5" ARE PLACED ON DUCTILE IRON PIPE.
   - E. WHEN TAPPING ALL NON-METALLIC PIPE (ACP, PVC, OR HDPE)
3. CURB BOXES SHALL NOT BE PLACED IN SIDEWALKS, DRIVEWAYS, OR CURB RAMPS.
4. USE POLYETHYLENE TUBING FOR $\frac{3}{4}$" AND 1" SERVICES GREATER THAN 100' IN LENGTH AND FOR 1.5" AND 2" SERVICES GREATER THAN 60' IN LENGTH. ALL POLYETHYLENE SERVICES SHALL INCLUDE A TRACER WIRE FOR DETECTION BY ECWA FORCES.
5. UNIONS ON COPPER TUBING ARE NOT ALLOWED UNLESS APPROVED BY ECWA PRIOR TO INSTALLATION.

SERVICE REPLACEMENT / INSTALLATION

SCALE: NTS

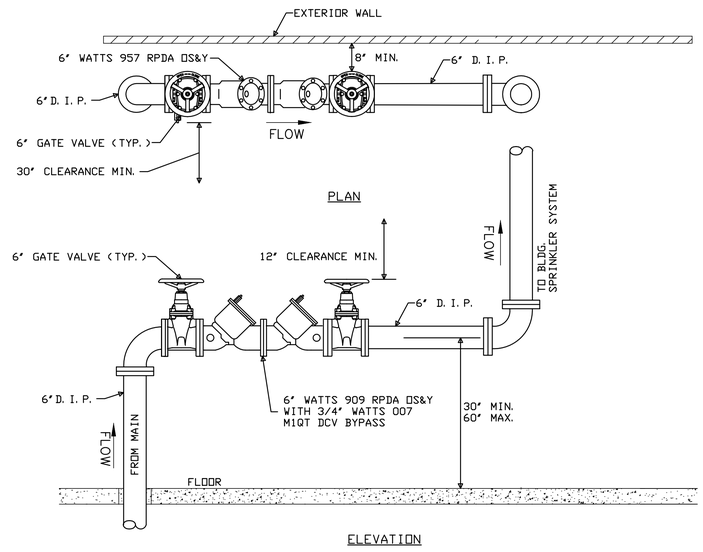
Revision: 2024-01

Detail: SD-20



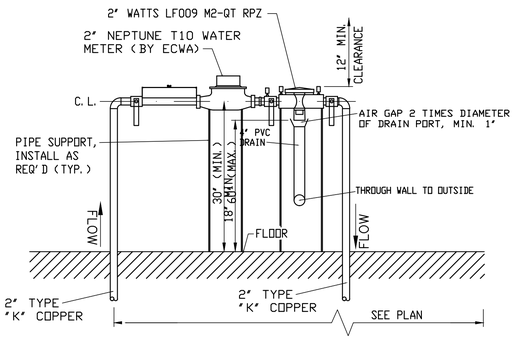
4" FIRE SERVICE - WATTS 909 RPDA OS&Y

SCALE: NONE



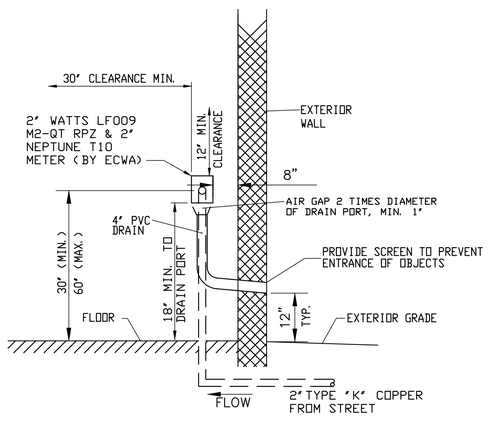
6" FIRE SERVICE - WATTS 909 RPDA OS&Y

SCALE: NONE



SOUTH ELEVATION

SCALE: NONE



WEST ELEVATION

SCALE: NONE

2" DOMESTIC SERVICE BACKFLOW PREVENTER INSTALLATION

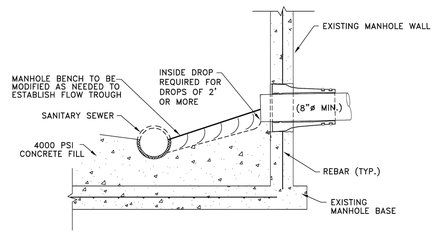
SCALE: NONE

NOTES:

1. NO TAPS TO BE MADE UPSTREAM OF RPZ & METER.
2. HEAT, LIGHT AND ELECTRIC TO BE PROVIDED AT RPZ LOCATION.
3. COORDINATE LOCATION WITH ARCHITECTURAL PLANS.
4. A SECTION OF STRAIGHT PIPE, JUST UPSTREAM OF THE METER, MUST BE INSTALLED WITH A LENGTH OF NO LESS THAN 4 TIMES THE PIPE DIAMETER.

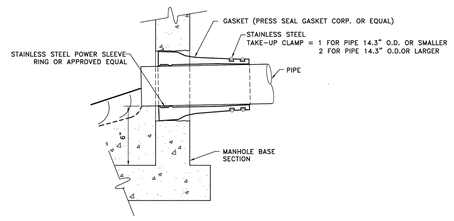
CONNECTION TO EXISTING MANHOLE

(NOVEMBER 2023)



NOTES:

1. CORE DRILL ENTRANCE HOLE IN PRECAST MANHOLE BARREL, BASE AND/OR BENCH FOR REQUIRED PIPE CLEARANCE. PER MANUFACTURERS RECOMMENDATIONS.
2. DOES NOT APPLY TO HOUSE LATERALS.
3. WATERTIGHT PIPE TO MANHOLE BOOT SEAL REQUIRED FOR ALL CORE DRILLED ENTRANCE HOLES IN MANHOLE BARREL AS SHOWN BELOW.



ERIE COUNTY DEPT. OF ENVIRONMENT & PLANNING DIVISION OF SEWERAGE MANAGEMENT	Rev. 1 12/9/96	ADDED WH BOOT SEAL DETAIL AND NOTE.	STD.DETAIL
	Rev. 2		37
	File: D-37	Date: 4/15/93	

File: V:\SEWR Engineering\SEWR Detailed Details\ November 2023\D-37.dwg, Last saved: 12/7/2023, Plot Date: 12/12/2023, Plot Style: ECMaLW.ctb

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

PROJECT DESCRIPTION

INSTALL THE FOLLOWING IN THE PROPOSED MULTI-FAMILY PROJECT IN THE TOWN OF AMHERST UNDER AN E.C.W.A. BUILDER, CONTRACTOR, DEVELOPER AGREEMENT:
8" C-900 P.V.C. WATERMAIN - 540± LF
FIRE HYDRANTS - 1

EXECUTIVE ENGINEER - E.C.W.A.	DATE
TOWN ENGINEER - TOWN OF AMHERST	DATE
FIRE CHIEF - TOWN OF AMHERST	DATE

TOWN OF AMHERST APPROVAL BOX:

STATE OF NEW YORK * CHRISTOPHER WOOD * LICENSED PROFESSIONAL ENGINEER 076994

Sealed 11/03/2026

DRAWING NAME:

Utility Details

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

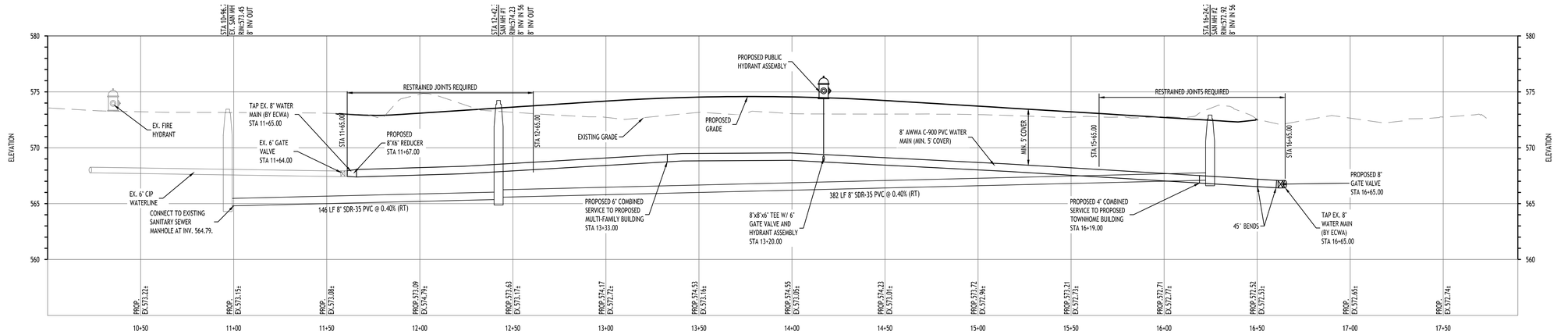
DRAWING NO.

C-403

Project No: 24-4023

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JOE MCCARTHY DRIVE EXTENSION - UTILITY PROFILES - STA 10+00 - 18+00

SCALE: HORIZ. 1"=30'
VERT. 1"=5'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN, D.P.C. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

HORIZ. 30' 30 0 30 60Ft.
VERT. 5' 5 0 5 10Ft.

ECDSM SANITARY SEWER EXTENSION TESTING AND WATER MAIN SEPARATION REQUIREMENTS

ERIE COUNTY DIVISION OF SEWERAGE MANAGEMENT, SPECIFICATIONS FOR SUBDIVISIONS AND SANITARY SEWER EXTENSIONS, JANUARY 2018, SECTIONS 02595-3.02 AND 02596-3.02; DESIGN REQUIREMENTS, APPENDIX B1, CURRENT DSM POSTING ACCESSED OCTOBER 20, 2026.

SECTION 02595-3.02
AIR TESTS, INFILTRATION OR EXFILTRATION, AND DEFLECTION REQUIREMENTS

A. GENERAL REQUIREMENTS

1. AFTER BACKFILLING AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL COMPLETE THE APPLICABLE AIR, INFILTRATION OR EXFILTRATION, AND DEFLECTION TESTS IN ACCORDANCE WITH THIS SECTION. DEFLECTION TESTING REQUIREMENTS ARE PROVIDED IN PARAGRAPH E.

2. NO MORE THAN 1,000 LINEAR FEET OF INSTALLED SEWER SHALL REMAIN UNTESTED.

3. HOUSE LATERALS AND RISER PIPES SHALL BE INSTALLED, CAPPED, TIED, AND BLOCKED AS WORK PROGRESSES AND BEFORE AIR TESTING.

4. TESTING PROCEDURES SHALL COMPLY WITH OSHA CONFINED SPACE REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE AND OPERATE ALL REQUIRED SAFETY AND TESTING EQUIPMENT, INCLUDING GAS DETECTORS, SAFETY HARNESS EQUIPMENT, VENTILATING BLOWERS, AND RESPIRATORS AS REQUIRED.

B. AIR TESTS

1. AIR TESTS ARE REQUIRED FOR ALL PIPE DIAMETERS UP TO AND INCLUDING 36 INCHES. TESTING SHALL CONFORM TO THE DSM SPECIFICATIONS AND TEN STATE STANDARDS, SECTION 33.94.

2. AIR TESTING SHALL NOT BE PERFORMED EARLIER THAN 14 CALENDAR DAYS AFTER TRENCH BACKFILLING.

3. THE MINIMUM TEST DURATION SHALL BE THE TIME REQUIRED FOR PRESSURE TO DECREASE FROM 3.5 PSI TO 3.0 PSI, AS SHOWN BELOW.

MINIMUM AIR TEST ACCEPTANCE TIMES

PIPE DIA.	UP TO 100 FT	100 TO 200 FT	200 TO 300 FT	300 TO 400 FT
6 IN.	2:50	2:50	2:50	2:51
8 IN.	3:47	3:47	3:48	5:04
12 IN.	5:40	5:42	8:33	11:24
15 IN.	7:05	8:54	13:21	17:48
18 IN.	8:30	12:49	19:14	25:38
21 IN.	9:55	17:27	26:11	34:54
24 IN.	11:24	22:48	34:11	45:35
27 IN.	14:25	28:51	43:16	57:42
30 IN.	17:48	35:37	53:25	71:13
33 IN.	21:33	43:56	64:38	86:10
36 IN.	25:39	51:17	76:55	102:34

NOTE: THE DSM INSPECTOR SHALL EXTEND THE TEST TIME TO THE NEXT FULL MINUTE.

4. AIR TESTS MAY BE CONDUCTED MANHOLE TO MANHOLE FOR PIPE DIAMETERS UP TO 36 INCHES. TEST SECTIONS SHALL NOT EXCEED 400 FEET.

5. IN WET TRENCHES WHERE LOWERING THE WATER TABLE BY PUMPING IS IMPRACTICAL, INSTALL AN APPROVED 4 INCH DIAMETER SOLID PVC DRAIN PIPE WITH AN APPROVED CAP AT EACH MANHOLE. EXTEND EACH PIPE FROM 6 INCHES BELOW THE LOWEST INVERT TO THE GROUND SURFACE AND EMBED IT AT LEAST 12 INCHES IN CLEAN NO. 1 STONE. MEASURE GROUNDWATER ELEVATIONS AT EACH MANHOLE AND INCREASE THE INITIAL AIR TEST PRESSURE AS NECESSARY TO OVERCOME THE CALCULATED GROUNDWATER PRESSURE ACTING ON THE PIPE.

6. THE CONTRACTOR SHALL STRICTLY FOLLOW THE SPECIFIED TEST PROCEDURES AND PROVIDE TESTING EQUIPMENT IN GOOD WORKING CONDITION. REQUIRED EQUIPMENT INCLUDES A STOPWATCH GRADUATED IN TENTHS OF A SECOND, A 50 TO 100 PSI COMPRESSOR, PIPE BULKHEADS, APPROXIMATELY 100 FEET OF 3/8 INCH AIR HOSE, A 0 TO 5 PSI GAUGE GRADUATED IN 1/16 PSI INCREMENTS, AND THREE 3/8 INCH CHECK VALVES.

C. INFILTRATION TESTS

1. INFILTRATION TESTING APPLIES ONLY WHEN THE GROUNDWATER LEVEL IS AT LEAST 2 FEET ABOVE THE TOP OF THE PIPE FOR THE ENTIRE TEST SECTION. TESTING SHALL NOT BE PERFORMED EARLIER THAN 14 CALENDAR DAYS AFTER TRENCH BACKFILLING.

2. INFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF SEWER PER 24 HOURS. EACH INDIVIDUAL MANHOLE TO MANHOLE RUN EXCEEDING 100 FEET SHALL MEET THE ALLOWABLE RATE. THE CONTRACTOR SHALL FURNISH TEST EQUIPMENT IN GOOD WORKING CONDITION.

3. THE DISTRICT IS NOT REQUIRED TO ACCEPT AN ENTIRE SEWER LINE WHEN TOTAL INFILTRATION IS BELOW THE ALLOWABLE RATE IF ONE OR MORE INDIVIDUAL RUNS EXCEED THE ALLOWABLE RATE.

4. INSTALL AN APPROVED 4 INCH DIAMETER SOLID PVC DRAIN PIPE WITH AN APPROVED CAP AT EACH MANHOLE, EXTENDING FROM 6 INCHES BELOW THE LOWEST INVERT TO THE GROUND SURFACE AND EMBEDDED AT LEAST 12 INCHES IN CLEAN NO. 1 STONE. MEASURE GROUNDWATER LEVELS AT EACH MANHOLE.

5. ALLOW THE WATER TABLE TO STABILIZE AND VERIFY THAT IT REMAINS AT LEAST 2 FEET ABOVE THE TOP OF THE PIPE DURING TESTING. ISOLATE THE TEST SECTION BETWEEN MANHOLES AND PLUG OR CAP ALL LATERALS, STUBS, AND FITTINGS TO PREVENT UNAUTHORIZED WATER ENTRY.

6. MEASURE INFILTRATION USING A V-NOTCH WEIR OR OTHER SUITABLE DEVICE AT THE DOWNSTREAM MANHOLE. AFTER FLOW STABILIZES, RECORD READINGS FOR FIVE CONSECUTIVE DAYS AND CONVERT THE MEASURED FLOW TO THE ALLOWABLE RATE.

7. IF A RUN EXCEEDS THE ALLOWABLE INFILTRATION RATE, THE CONTRACTOR SHALL LOCATE AND REPAIR THE DEFECTIVE SECTION. DSM MAY REQUIRE TELEVISION OR OTHER CAMERA INSPECTION.

D. EXFILTRATION TESTS

1. EXFILTRATION TESTING SHALL NOT BE PERFORMED EARLIER THAN 14 CALENDAR DAYS AFTER TRENCH BACKFILLING. TESTING SHALL BE CONDUCTED BETWEEN ADJACENT MANHOLES UNLESS OTHERWISE APPROVED.

2. BEFORE TESTING, PLUG OR CAP AND ADEQUATELY BLOCK ALL LATERALS, STUBS, AND FITTINGS IN THE TEST SECTION.

3. WHERE MANHOLES ARE INCLUDED IN THE TEST, BULKHEAD THE INLET PIPES AND FILL THE SECTION THROUGH THE UPSTREAM MANHOLE. FILL AT A STEADY RATE TO PROVIDE AN AVERAGE PRESSURE OF 5 PSI, EQUAL TO APPROXIMATELY 11.6 FEET OF HEAD, AT THE CENTER OF THE TEST SECTION, OR UNTIL THE UPSTREAM MANHOLE IS FULL. PROVIDE MEANS TO RELEASE ENTRAPPED AIR.

4. AFTER FILLING, ALLOW THE PIPE AND MANHOLES TO ABSORB WATER FOR AT LEAST 24 HOURS. RESTORE THE WATER TO THE TEST LEVEL AND MEASURE WATER LOSS OR THE VOLUME REQUIRED TO RESTORE THE LEVEL OVER THE FOLLOWING 24 HOURS.

5. WHERE BOTH MANHOLES ARE EXCLUDED FROM THE TEST, BULKHEAD THE UPSTREAM MANHOLE OUTLET AND PROVIDE MEANS TO FILL THE PIPE AND RELEASE ENTRAPPED AIR.

6. ADJUST THE TEST HEAD SO THAT PRESSURE AT ANY POINT IN THE TEST SECTION DOES NOT EXCEED 10 PSI, EQUAL TO APPROXIMATELY 23 FEET OF HEAD.

7. EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF SEWER PER 24 HOURS. EACH INDIVIDUAL MANHOLE TO MANHOLE RUN SHALL MEET THE ALLOWABLE RATE. DEFECTIVE SECTIONS SHALL BE LOCATED AND REPAIRED. DSM MAY REQUIRE TELEVISION OR OTHER CAMERA INSPECTION.

E. DEFLECTION TESTS

1. DEFLECTION TESTING SHALL NOT BE PERFORMED EARLIER THAN 30 CALENDAR DAYS AFTER TRENCH BACKFILLING.

2. ALL FLEXIBLE PVC SEWERS 8 INCHES IN DIAMETER OR LARGER SHALL BE INTERNALLY TESTED WITH A 5 PERCENT DEFLECTION GO NO GO PIG OR MANDREL. PIPE THAT FAILS THE TEST SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

3. PULL THE MANDREL OR PIG THROUGH THE PIPE BY HAND OR WITH A HAND OPERATED WINCH. POWER WINCHES OR DRIVES ARE NOT PERMITTED.

F. MANHOLE TESTING

1. PERFORM AN INFILTRATION AND/OR EXFILTRATION TEST ON EVERY MANHOLE CONSTRUCTED FOR THE PROJECT.

2. REPAIR LEAKS DISCOVERED DURING TESTING OR DURING THE TWO YEAR MAINTENANCE PERIOD AT THE CONTRACTOR'S EXPENSE.

3. INSTALL A 4 INCH DIAMETER SOLID PVC DRAIN PIPE AT EACH MANHOLE FOR GROUNDWATER LEVEL MEASUREMENT, AS DETAILED ON THE PLANS.

G. COMPLETION DOCUMENTATION AND INSPECTION

1. WITHIN 30 DAYS AFTER CONSTRUCTION, SUBMIT A WRITTEN CERTIFICATE OF CONSTRUCTION COMPLETENESS AND COMPLIANCE TO DSM AND THE ERIE COUNTY HEALTH DEPARTMENT. INCLUDE APPLICABLE HYDROSTATIC LEAKAGE, LAMP, DEFLECTION, AND AIR TEST RESULTS.

2. COMPLETE LAMPING, VIDEO INSPECTION, OR OTHER VISUAL INSPECTION AS REQUIRED BY DSM AND THE APPROVED PROJECT DOCUMENTS. SUBMIT REQUIRED RECORDINGS AND REPORTS TO DSM.

SECTION 3.04
SEPARATION OF WATER MAINS AND SEWERS

A. GENERAL

1. WATER MAIN AND SEWER SEPARATION SHALL CONFORM TO THE CURRENT TEN STATE STANDARDS AND DSM DESIGN REQUIREMENTS, APPENDIX B1.

B. HORIZONTAL SEPARATION

1. INSTALL SEWERS AT LEAST 10 FEET HORIZONTALLY FROM EXISTING OR PROPOSED WATER MAINS, MEASURED EDGE TO EDGE.

2. WHERE 10 FEET OF SEPARATION IS NOT PRACTICAL, THE REVIEWING AGENCY MAY APPROVE A DEVIATION ON A CASE BY CASE BASIS WITH SUPPORTING ENGINEERING DATA. WHERE APPROVED, INSTALL THE SEWER IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF ON ONE SIDE OF THE WATER MAIN, WITH THE BOTTOM OF THE WATER MAIN AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER.

3. IF REQUIRED HORIZONTAL AND VERTICAL SEPARATION CANNOT BE ACHIEVED, BOTH THE WATER MAIN AND SEWER SHALL USE SLIP ON OR MECHANICAL JOINT PIPE COMPLYING WITH THE REGULATORY AGENCY'S PUBLIC WATER SUPPLY DESIGN STANDARDS. PRESSURE TEST THE PIPE TO 150 PSI BEFORE BACKFILLING.

C. VERTICAL SEPARATION AT CROSSINGS

1. PROVIDE AT LEAST 18 INCHES OF VERTICAL CLEARANCE, MEASURED OUTSIDE TO OUTSIDE, BETWEEN WATER MAINS AND SEWERS. THIS REQUIREMENT APPLIES WHETHER THE WATER MAIN CROSSES ABOVE OR BELOW THE SEWER.

2. LOCATE SEWER JOINTS EQUIDISTANT FROM AND AS FAR AS PRACTICABLE FROM WATER MAIN JOINTS. PROVIDE STRUCTURAL SUPPORT FOR THE SEWER WHERE A WATER MAIN CROSSES BELOW IT.

3. IF REQUIRED SEPARATION CANNOT BE ACHIEVED, USE ONE OF THE FOLLOWING METHODS, SUBJECT TO REVIEWING AGENCY APPROVAL:
A. DESIGN AND CONSTRUCT THE SEWER TO WATER PIPE REQUIREMENTS AND PRESSURE TEST IT TO 150 PSI BEFORE BACKFILLING.
B. ENCASE EITHER PIPE IN A WATERTIGHT CARRIER PIPE EXTENDING 10 FEET BEYOND EACH SIDE OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. CARRIER PIPE MATERIAL SHALL BE APPROVED FOR WATER MAIN CONSTRUCTION.
C. CONCRETE ENCASE THE SEWER IN ACCORDANCE WITH THE DSM WATER MAIN CROSSING DETAIL.

PROJECT DESCRIPTION

INSTALL THE FOLLOWING IN THE PROPOSED MULTI-FAMILY PROJECT IN THE TOWN OF AMHERST UNDER AN E.C.W.A. BUILDER, CONTRACTOR, DEVELOPER AGREEMENT:
8" C-900 P.V.C. WATERMAIN - 540± LF
FIRE HYDRANTS - 1

EXECUTIVE ENGINEER - E.C.W.A. DATE

TOWN ENGINEER - TOWN OF AMHERST DATE

FIRE CHIEF - TOWN OF AMHERST DATE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK * CHRISTOPHER WOOD * 076394 LICENSED PROFESSIONAL ENGINEER

Sealed 11/03/2026

DRAWING NAME:
Utility Profiles & Notes

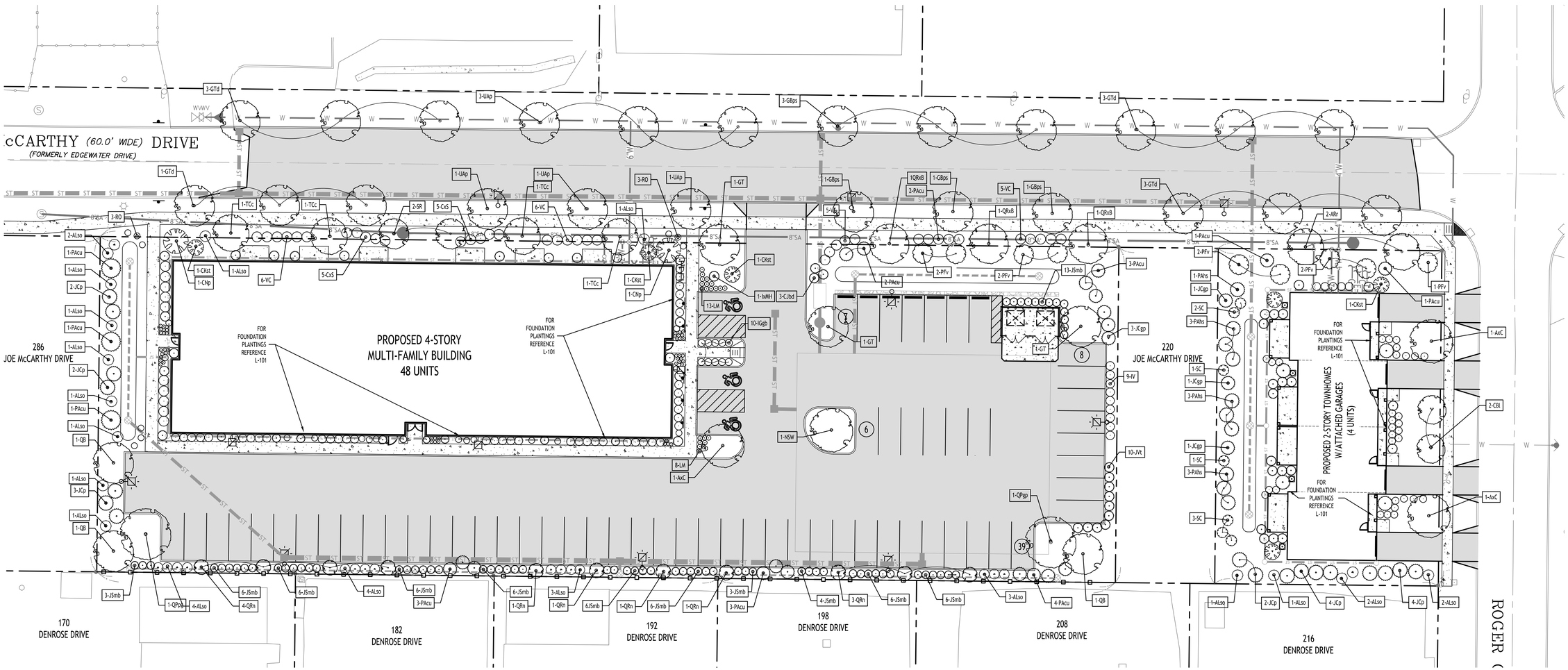
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Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
C-404

Project No: 24-4023

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Landscape Plan

SCALE: 1"= 20'

PER TOWN OF AMHERST CODE:
ALL DEAD OR MISSING EXISTING PLANTS FROM THE PREVIOUSLY APPROVED SITE PLANS SHALL BE REPLACED/INSTALLED AS PER ZONING ORDINANCE 7-2-3(A)(1). CONTRACTOR SHALL REFER TO PREVIOUSLY APPROVED SITE AND LANDSCAPE PLANS BY OTHERS FOR ALL LANDSCAPE REFERENCES.

PER TOWN OF AMHERST CODE:
CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES 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 WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS AS PER ZONING ORDINANCE 7-2-3(B)(3).

PER TOWN OF AMHERST CODE:
ALL REFUSE CONTAINERS & ALL MECHANICAL EQUIPMENT, UTILITY STRUCTURES, MULTIPLE METER BOARDS, GENERATORS, RPZ'S, & SIMILAR APPURTENANCES, INCLUDING THOSE WHICH ARE MOUNTED ON ANY PART OF A PRIMARY STRUCTURE SHALL BE SHOWN ON THE SITE PLAN & APPROPRIATELY SCREENED W/ A FENCE, WALL, &/OR LANDSCAPING AS REQUIRED BY 203-7-2-4(C) & 203-7-2-4(D) OF TOWN CODE. SUCH SCREENING SHALL BE SHOWN ON THE PLANS SUBMITTED FOR REVIEW. PROVIDE GATE ON REFUSE ENCLOSURE THAT SHALL BE CLOSED WHENEVER REFUSE CONTAINER(S) ARE NOT BEING SERVICED & ENCLOSURE SHALL BE HIGH ENOUGH TO SCREEN THE REFUSE CONTAINERS WITHIN.

LANDSCAPE NOTES:

1. ALL PLANTS INSTALLED SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS AS NOTED ON THE PLANS AND IN THE LATEST EDITION ON THE AMERICAN STANDARD FOR NURSERY STOCK, BY THE AMERICAN ASSOCIATION OF NURSERYMEN, ANSI 260.1

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN QUANTITY TAKEOFF, THE QUANTITIES SHOWN ARE A MINIMUM AND ARE FOR REFERENCE ONLY.

3. THE CONTRACTOR SHALL PERFORM A ROUGH FIELD STAKEOUT OF ALL PLANTING MATERIAL LOCATIONS AND CONTACT THE OWNERS FIELD REPRESENTATIVE PRIOR TO ACTUALL INSTALLING. THE PLANTING MATERIAL LOCATIONS SHOWN ON THE PLANS ARE TO CONVEY THE DESIGN INTENT ONLY, ACTUAL LOCATIONS WILL BE FINALIZED BY THE OWNERS FIELD REPRESENTATIVE AT THE TIME OF INSTALLATION.

4. THE CONTRACTOR IS HEREBY NOTIFIED THAT IF UNDERGROUND UTILITIES EXIST IN THE VICINITY OF THE PLANTINGS, ALL PROPOSED PLANTINGS SHALL BE INSTALLED A MINIMUM OF 5' FROM ANY UNDERGROUND UTILITY, CONTACT THE OWNERS FIELD REPRESENTATIVE IF PLANTINGS SHOWN ON THE PLANS VIOLATE THIS SITUATION.

5. ALL TREES SHALL BE INSTALLED A MINIMUM OF 20' FROM ANY OVERHEAD ELECTRIC LINES.

6. PLANTING BACKFILL MIXTURE SHALL CONSIST OF 3 PARTS TOPSOIL, 1 PART PEAT MOSS, ½ PART MILORGANITE.

7. STAKE TREES IMMEDIATELY FOLLOWING INSTALLATION.

8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED HARDWOOD BARK MULCH WITH 'PREEN'.

9. ALL DISTURBED AREAS NOT RECEIVING PLANTINGS (INCLUDING RIGHT-OF-WAYS) SHALL BE SEEDED.

10. THE AREAS ON THE PLAN TO BE SEEDED SHALL HAVE 4" MINIMUM OF TOPSOIL, DISK PLOWED, LEVELED AND HAND RAKED SMOOTH. SURFACE SHALL BE ROLLED TO REMOVE LUMPS.

11. ALL SEEDED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIFICATION INDICATED. WHERE REQUIRED BY CLIMATIC CONDITIONS, SLOPE OR SEASON OF PLANTING, SOD MAY BE SUBSTITUTED FOR SEEDING IN ORDER TO ACHIEVE THE REQUIRED COVERAGE.

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MOWING AND OTHER MAINTENANCE TO SEEDED AREAS UNTIL THE PROJECT IS ACCEPTED BY THE OWNER, THIS SHALL INCLUDE WATERING DAILY FOR 15 DAYS OR AS REQUIRED BY WEATHER CONDITIONS AND RE-SEEDING OF THIN SPOTS FOLLOWING THE GERMINATION OF THE SEEDS.

PLANTING NOTES:

1. ALL INTERIOR LANDSCAPED AREAS SHALL HAVE A MINIMUM PLANTING SOIL DEPTH OF THREE (3) FEET AND BE FREE FROM ALL FORMS OF CONSTRUCTION DEBRIS AND FOREIGN MATERIAL.
2. ALL TREE PIT SAUCERS, SHRUB BEDS, ORNAMENTAL GRASS BEDS, AND PERENNIAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE AND THREE (3) INCHES DEPTH OF DARK SHREDDED HARDWOOD BARK MULCH.
3. ALL SEASONAL FLOWER BEDS SHALL BE A MINIMUM OF TWELVE (12) INCHES DEEP WITH A WELL-BLENDED MIXTURE OF 50% PEAT MOSS & 50% SCREENED TOPSOIL. SEASONAL FLOWER BEDS SHALL RECEIVE 'PREEN' HERBICIDE. NO MULCH SHALL BE INSTALLED IN THE SEASONAL FLOWER BEDS.
4. ALL DECIDUOUS AND EVERGREEN TREES SHALL BE STAKED WITH THREE (3) TREE STAKES AS PER TREE PLANTING DETAIL.

LEGEND

DECIDUOUS TREE

SMALL TREE

EVERGREEN TREE/SHRUB

SHRUB/ORNAMENTAL GRASS

PERENNIAL/ GROUND COVER

TOWN OF AMHERST APPROVAL BOX:

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

20' 20 0 20 40Ft.

CARMINAWOOD
DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

DRAWING NAME:

Landscape Plan
Landscape/Town Notes

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

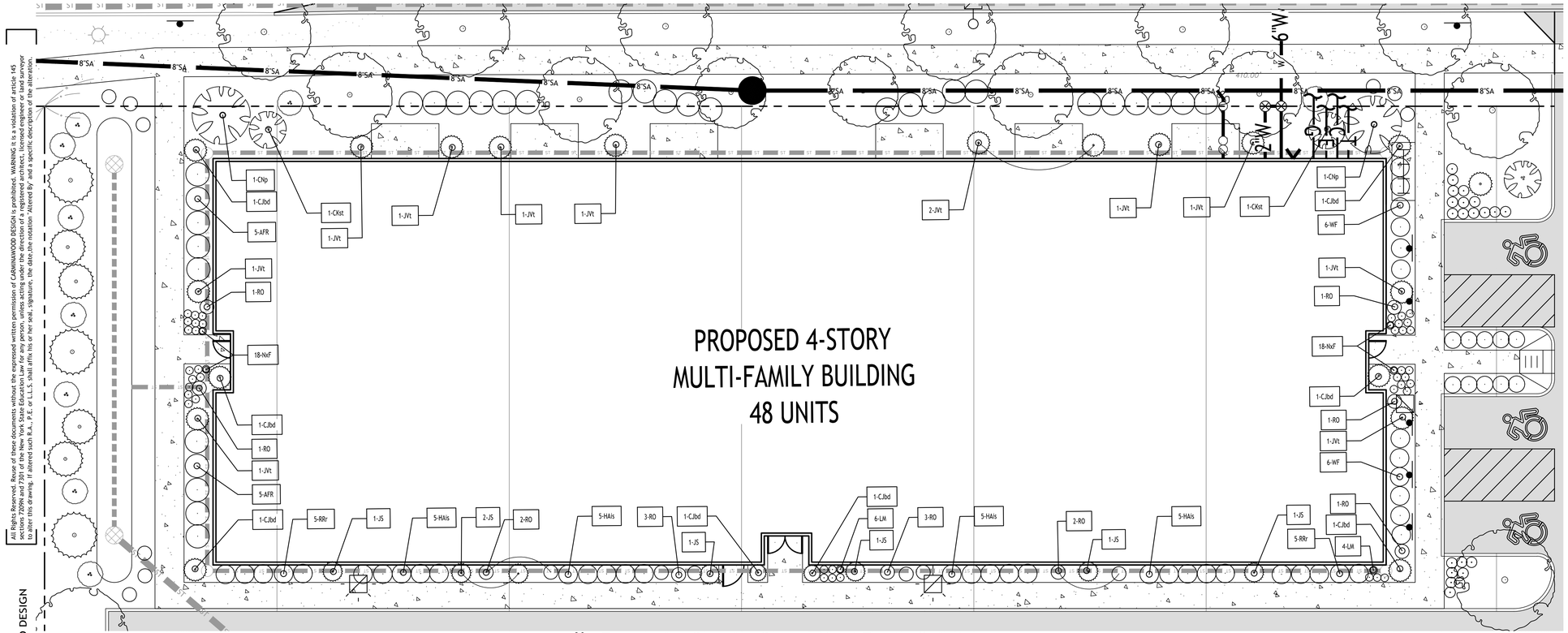
DRAWING NO.

L-100

Project No: 24-4023

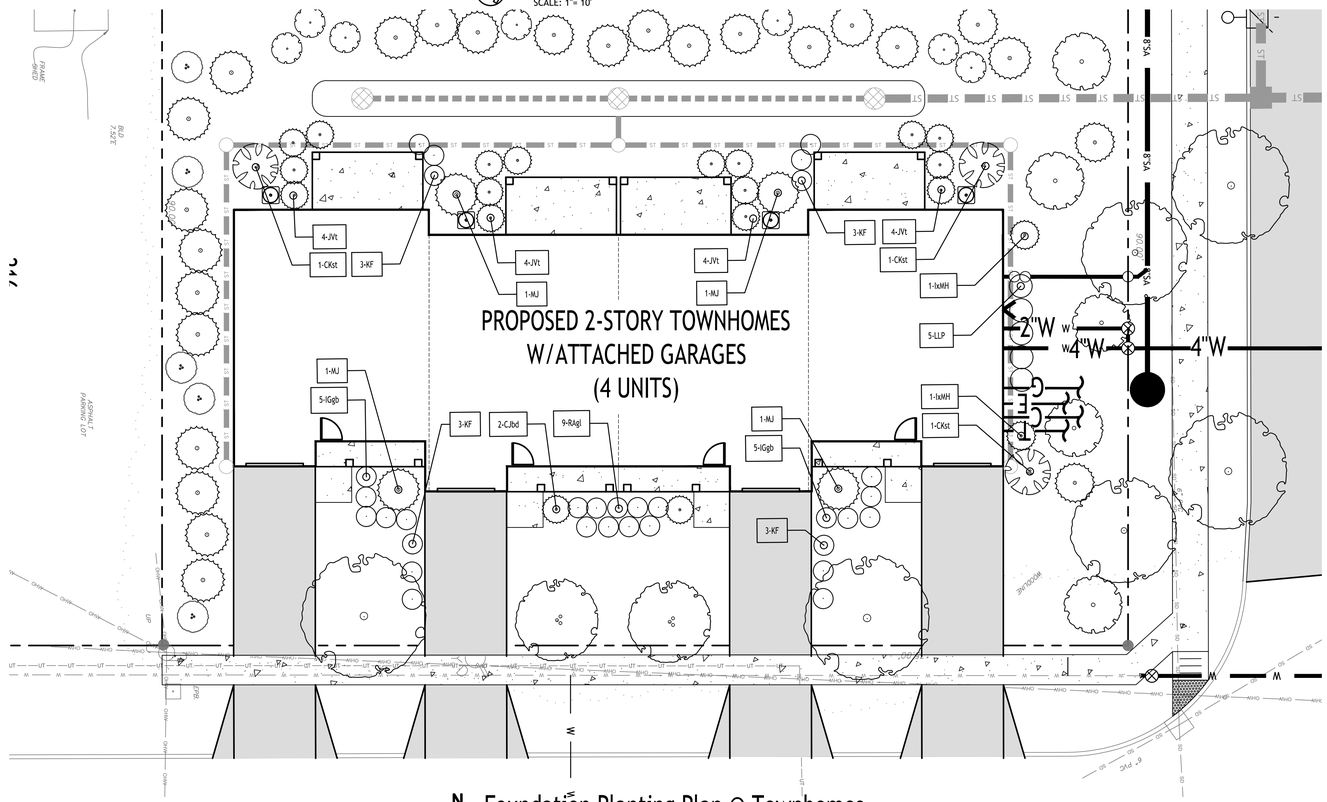
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Foundation Planting Plan @ Multi Family Building

SCALE: 1"= 10'



Foundation Planting Plan @ Townhomes

SCALE: 1"= 10'

LEGEND

DECIDUOUS TREE

SMALL TREE

EVERGREEN TREE/SHRUB

SHRUB/ORNAMENTAL GRASS

PERENNIAL/ GROUND COVER

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

10' 10 0 10 20Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

DRAWING NAME:

Enlarged Landscape Plans

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.

L-101

Project No: 24-4023

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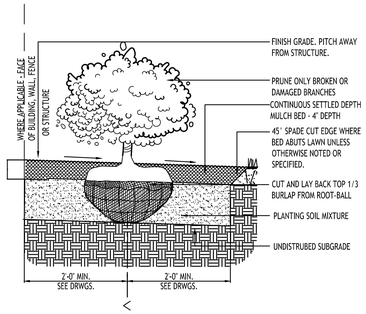
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Plant Schedule - Joe McCarthy Drive - Amherst, New York

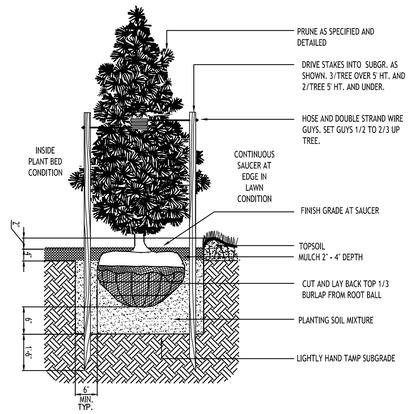
KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		D E C I D U O U S T R E E S			
QB	3	Quercus bicolor	Swamp White Oak	2 1/2" - 3" CAL.	B&B, HT. 60', W 40'
QRxB	3	Quercus robur x bicolor 'Long'	Regal Prince Oak	2 1/2" - 3" CAL.	B&B, HT. 40', W 18'
GT/GTd	15	Gleditsia triacanthos "Draves"	Street Keeper Honey Locust	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
AxC	3	Aesculus x carnea 'Briotii'	Red Horse Chestnut	2 1/2" - 3" CAL.	B&B, HT. 60', W 40'
ARr	2	Acer rubrum 'Frank Jr.'	Redpointe Maple	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
QPgp	2	Quercus palustris 'Green Pillar'	Green Pillar Pin Oak	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
NSW	1	Nyssa sylvatica 'Wildfire'	Wildfire Tupelo	2 1/2" - 3" CAL.	B&B, HT. 35', W 18'
CBl	2	Carpinus betulus 'Lucus'	Lucus Columnar Hornbeam	2 1/2" - 3" CAL.	B&B, HT. 35', W 15'
QRn	11	Quercus robur x bicolor Nadler PP17604'	Kindred Spirit Oak	2 1/2" - 3" CAL.	B&B, HT. 30', W 6'
TCc	4	Tilia cordata 'Corinthian'	Corinthian Linden	2 1/2" - 3" CAL.	B&B, HT. 45', W 20'
UAp	6	Ulmus americana 'Princeton'	Princeton American Elm	2 1/2" - 3" CAL.	B&B, HT. 45', W 25'
GBps	6	Ginkgo biloba 'Princeton Sentry'	Prenceton Sentry Maiden Hair Tree	2 1/2" - 3" CAL.	B&B, HT. 45', W 25'
		S M A L L / O R N A M E N T A L T R E E S			
CKst	6	Cornus kousa 'Snow Tower'	Kousa Dogwood	1 3/4" x 2 1/2" CAL.	B&B, HT. 15', W 8'
SR	2	Syringa reticulata 'Ivory Silk'	Ivory Silk Lilac Tree	1 3/4" X 2 1/2" CAL.	B&B, HT. 20', W 15'
ALso	28	Amelanchier 'Standing Ovation'	Standing Ovation Serviceberry	1 3/4" x 2" CAL.	B&B, HT. 15', W 4'
		E V E R G R E E N T R E E S			
JS	8	Juniperus scopolarum 'Skyrocket'	Skyrocket Juniper	6-8' Tall	B&B, HT. 16', W 4'
CNp	2	Chamaecyparis nootkatensis 'Pendula'	Weeping Nootka Cypress	6-8' Tall	B&B, HT. 20', W 8'
PFv	9	Pinus flexilis 'Vanderwolf's'	Blue Limber Pine	6-8' Tall	B&B, HT. 20', W 6'
CJbd	13	Cryptomeria Japonica 'Black Dragon'	Back Dragon Japanese cedar	6-8' Tall	B&B, HT. 20', W 8'
PAcu	20	Picea abies 'Cupressina'	Norway Spruce - Columnar	6-8' Tall	B&B, HT. 30', W 10'
JCp	15	Juniperus chinensis 'Perfecta'	Perfecta Juniper	6-8' Tall	B&B, HT. 16', W 7'
JSmb	71	Juniperus scopulorum 'Moffat Blue'	Moffat Blue Juniper	6-8' Tall	B&B, HT. 16', W 3'
JCgp	6	Juniperus chinensis 'Greenpoint'	Greenpoint Juniper	6-8' Tall	B&B, HT. 16', W 3'
JVt	38	Juniperus virginiana 'Taylor'	Taylor Juniper	6-8' Tall	B&B, HT. 20', W 4'
PAhs	10	Picea abies 'Hillside upright'	Norway Spruce - Upright	6-8' Tall	B&B, HT. 20', W 8'
		S H R U B S			
IGgb	20	Ilex glabra 'Gem Box'	Inkberry Holly - Gem Box	24-36" Tall	B&B, HT. 4', W 4'
AFR	10	Cornus stolonifera 'Arctic Fire'	Arctic Fire Red-osier Dogwood	24-36" Tall	B&B, HT. 4', W 4'
CxS	10	Chaenomeles speciosa 'Scarlet Quince'	Double Take Scarlet Quince	24-36" Tall	B&B, HT. 5', W 4'
SC	7	Sambucus canadensis	American Eldeberry	24-36" Tall	B&B, HT. 8', W 5'
RRr	10	Rosa radrazz	Knockout Rose	24-36" Tall	Cont. no.3 - 3'Tall, 3'Wide
VC	27	Viburnum carlesii	Koreanspice Viburnum	36-48" Tall	B&B, HT. 5', W 6'
WF	11	Weigela florida 'Wine and Roses'	Wine and Roses Weigela	36-48" Tall	B&B, HT. 4', W 5'
HAis	30	Hydrangea aborescens 'Invincible Spirit'	Smooth Hydragea - Invincible Spirit	24-36" Tall	B&B, HT. 4', W 4'
LLP	5	Hydrangea paniculata 'Litttle Lime Punch'	Little Lime Punch Hydrangea	24-36" Tall	B&B, HT. 5', W 5'
IV	5	Ilex verticillata	Winterberry Holly	24-36" Tall	B&B, HT. 7', W 5'
MJ	4	Mahonia japonica	Leatherleaf Mahonia	24-36" Tall	B&B, HT. 10', W 5'
IxMH	2	Ilex x meserveae 'Hachfee'	Castle Spire Blue Holly	24-36" Tall	B&B, HT. 10', W 4'
		G R A S S E S / P E R E N N I A L S / G R O U N D C O V E R S			
RO	24	Andropogon Gerardii	Big Blue Stem Andropogon	18-24" Tall	Cont. #3, HT. 4', W 6'
LM	31	Liriope muscari	Big Blue Lilyturf	12-16" Tall	Cont. no.3 - 3'Tall, 3'Wide
NxF	36	Nepeta x faassenii 'Walker's Low'	Walkers Low Catmint	6-12" Tall	Cont. no.3 - 18" Tall, 1-4'Wide
KF	12	Calamagrostis x acutiflora	Karl Foerster Reed Grass	18-24" Tall	Cont. no.3 - 3'Tall, 3'Wide
RAgl	9	Rhus aromatica 'Gro-low'	Fragrant Sumac	18-24" Tall	Cont. #3, HT, 2-3, W 6'

Plant schedule represents total counts for proposed plantings - including any foundation plantings @ all proposed structures

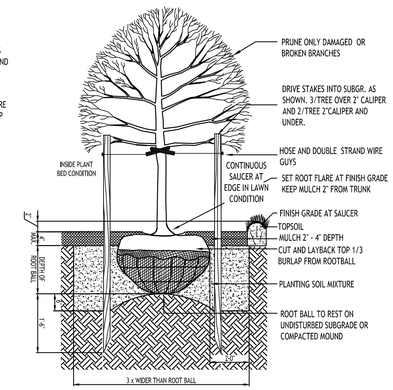
The required screening of any structure relating to site utilities, refuse containment, etc. will be screened according to the applicable section of amherst town code - Chapter 203 - Section 7 as it pertains to the landscape plan. It is the responsibility of contractor to allow for any addtional plantings for structures relating to mechanical equipment which may not be shown on plan. Coordination with Architect, Civil Engineer, and/or MEP Engineer(s) may be required.



STD. SHRUB PLANTING
NOT TO SCALE

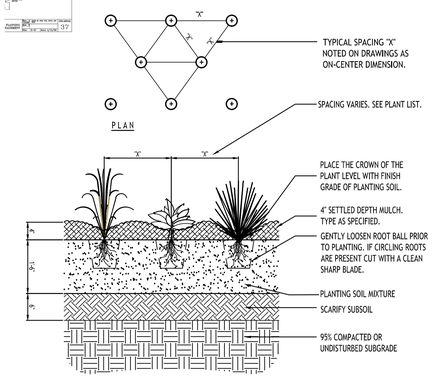


STD. EVERGREEN PLANTING
NOT TO SCALE



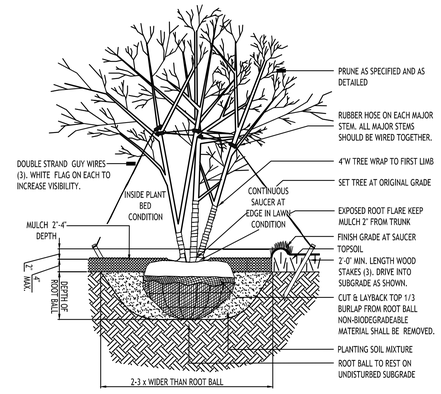
STD. DECIDUOUS TREET PLANTING
NOT TO SCALE



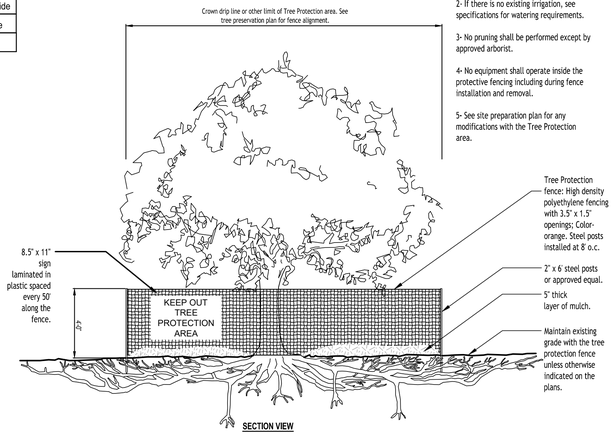


SECTION
NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING

GROUND COVER PLANT SPACING
NO TO SCALE



DECIDUOUS TREE PLANTING - MULTI - STEM
NO TO SCALE



Notes:
1- See specifications for additional tree protection requirements.

2- If there is no existing irrigation, see specifications for watering requirements.

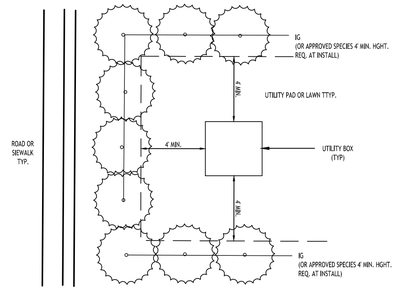
3- No pruning shall be performed except by approved arborist.

4- No equipment shall operate inside the protective fencing including during fence installation and removal.

5- See site preparation plan for any modifications with the Tree Protection area.

SECTION VIEW

TREE PROTECTION / SAFETY NETTING
NO TO SCALE



TYPICAL CONDITION PLAN VIEW (N1S)

NOTES:

1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE (IG - stands for Ilex Glabra - Inkberry Holly - alternate approved species allowed - 4' Height min.)
2. PROVIDE A MINIMUM 4' OFFSET FROM THE SHRUBS PLANTED EDGE TO THE EDGE OF THE UTILITY BOX TO ALLOW ENOUGH CLEARANCE FOR UTILITY MAINTENANCE TO BE PERFORMED

TYPICAL SHRUB PLANTING TO SCREEN UTILITY INFASTRUCTURE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
5	Rev. Per Town & Agency Comments	11/03/26

JERRY C. WEBER — LICENSED LANDSCAPE ARCHITECT — NO. 001196 — STATE OF NEW YORK

DRAWING NAME:
Site Details
Plant Schedule

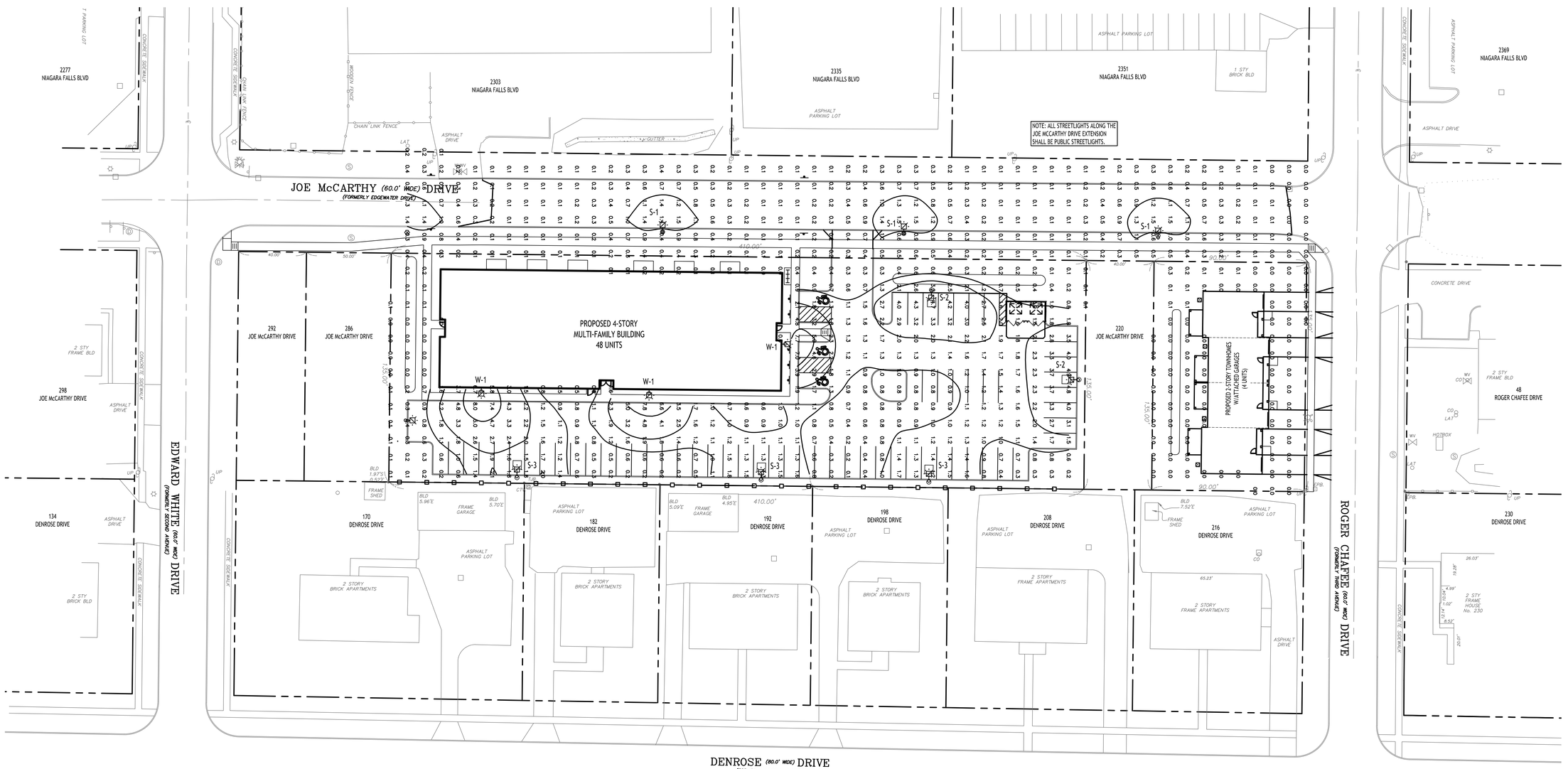
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Scale: As Noted

DRAWING NO.
L-102

Project No: 24-4023

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N

Lighting Plan

SCALE: 1"=30'

GENERAL PHOTOMETRIC SCHEDULE

AVERAGE FOOT-CANDLES	0.84
MAXIMUM FOOT-CANDLES	8.0
MINIMUM FOOT-CANDLES	0.2

PER AMHERST TOWN CODE: 7-3-4. C.
LIGHT LEVELS FOR MULTI-FAMILY PARKING LOTS:
MINIMUM F.C. 0.20
AVERAGE F.C. 1.0
MAXIMUM F.C. 8.0

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	NOTE 1	NOTE 2	QUANTITY	LUMENS / LAMP
S-1	⊗	(1) (1) LEDgine ARRAY(S) DRIVEN AT 1050mA	TownView (TVPC), 16 LED's, 3000K CCT, TYPE 3S OPTIC, with Visual Comfort Panels	ELECTRONIC	POLE	SIGNIFY HADCO, TVPC-S3-S-16-G1-7-3W-730-A-N-R7-N-SP1-N-N-N-BKS	120V 1P 2W	BUG Rating: B1-U3-G1	Mounting Height: 20.0'	3	2865
S-2	○-□	(32)	GALLEON AREA AND ROADWAY LUMINAIRE(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD	ELECTRONIC	POLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON), GALN-SA2C-740-U-SL4-HSS	120V 1P 2W	BUG Rating: B2-U0-G3	Mounting Height: 15.0'	2	11629
S-3	○-□	(16)	GALLEON AREA AND ROADWAY LUMINAIRE(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD	ELECTRONIC	POLE	COOPER LIGHTING SOLUTIONS - McGRAW-EDISON (FORMERLY EATON), GALN-SA1B-740-U-T4FT-HSS	120V 1P 2W	BUG Rating: B1-U0-G1	Mounting Height: 15.0'	3	4146
W-1	○	(20) (20) 2200K CCT, 70 CRI LEDS	GEKKO WALL PACK 12000LM PACKAGE 70CRI 2200K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC	ELECTRONIC	WALL	COOPER LIGHTING SOLUTIONS - McGraw-Edison, GKO-PB2E-722-U-T4W	120V 1P 2W	BUG Rating: B1-U0-G2	Mounting Height: 15.0'	3	0

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

30 30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

CHRISTOPHER WOOD
STATE OF NEW YORK
076394
LICENSED PROFESSIONAL ENGINEER
Sealed 11/03/2026

DRAWING NAME:
Lighting Plan

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
LP-100

Project No: 24-4023

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Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Product Certifications

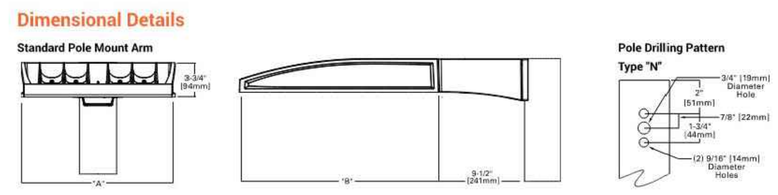
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- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 13

Connected Systems
- Wavelinx LITE Wireless
- Wavelinx PRO Wireless
- AirMesh Wireless

Quick Facts
- Lumen packages range from 3,300 - 102,700 (33W - 658W)
- 17 optical distributions
- Efficacy up to 178 LPW

Dimensional Details

Standard Pole Mount Arm — Pole Drilling Pattern Type "N"



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES: For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. IDA Certified (3000K CCT and warmer only, fixed mounting options)

McGraw-Edison — GALN Galleon II

Ordering Information

SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM

Product Family	Light Square	Square Count	Lumen Output	Color Temperature	Voltage	Distribution	Mounting	Finish
GALN=Galleon II; BAA-GALN=Galleon II Buy American Act Compliant; TAA-GALN=Galleon II Trade Agreements Act Compliant; BABA-GALN=Galleon II BABA/IIJA Compliant	SA=16 LED Light Square; SB=26 LED Light Square	1=1 Light Square; 2=2 Light Squares; 3=3 Light Squares; 4=4 Light Squares; 5=5 Light Squares; 6=6 Light Squares; 7=7 Light Squares; 8=8 Light Squares; 9=9 Light Squares	A=Output Level 1; B=Output Level 2; C=Output Level 3; D=Output Level 4; Z=Configured Output	722=70CRI, 2200K; 727=70CRI, 2700K; 730=70CRI, 3000K; 735=70CRI, 3500K; 740=70CRI, 4000K; 750=70CRI, 5000K; 760=70CRI, 6000K; 827=80CRI, 2700K; 830=80CRI, 3000K; 835=80CRI, 3500K; 840=80CRI, 4000K; 930=90CRI, 3000K; 935=90CRI, 3500K; 940=90CRI, 4000K; 950=90CRI, 5000K; AMB=Amber	U=120-277V; H=347V-480V; 1=120V; 2=208V; 3=240V; 4=277V; 8=480V; 9=347V; DV=277V-480V DuraVolt Drivers	T1=Type I; T2=Type II; T2R=Type II Roadway; T3=Type III; T3R=Type III Roadway; T4FT=Type IV Forward Throw; T4W=Type IV Wide; 5NQ=Type V Narrow; 5MQ=Type V Square Medium; 5WQ=Type V Square Wide; SL2=Type II w/Spill Control; SL3=Type III w/Spill Control; SL4=Type IV w/Spill Control; SLL=90° Spill Light Eliminator Left; SLR=90° Spill Light Eliminator Right; RW=Rectangular Wide Type I; AFL=Automotive Frontline	[Blank]=Standard Pole Mount Arm; QU=Quick Mount Universal Arm; QM=Pole Mount Arm with Quick Mount Adaptor; PA=Pole Mount, Adjustable; SP=3" Slipfitter, Adjustable; SP2=2-3/8" Slipfitter, Adjustable; QMA=Quick Mount Mast Arm, Fixed; MA=Mast Arm, Fixed; WM=Wall Mount, Fixed; WA=Wall Mount, Adjustable; UP=Upswept Arm	AP=Grey; BZ=Bronze; BK=Black; DP=Dark Platinum; GM=Graphite Metallic; WH=White; RALXX=Custom Color

Options (Add as Suffix): DIM=External 0-10V Dimming Leads; F=Single Fuse (120, 277 or 347V Specify Voltage); FF=Double Fuse (208, 240 or 480V Specify Voltage); 20K=20kV UL 1449 fused surge protective device; 2L=Two Circuits; HA=50°C High Ambient; HSS=Installed House Side Shield; BCS=Backlight Control Shield; GRSBK=Glare Reducing Shield, Black; GRSWH=Glare Reducing Shield, White; LCF=Light Square Trim Painted to Match Housing; TH=Tool-less Door Hardware; CC=Coastal Construction finish; L90=Optics Rotated 90° Left; R90=Optics Rotated 90° Right; 3SDCM=3 Standard Deviation Color Matching; AHD145=After Hours Dim, 5 Hours; AHD245=After Hours Dim, 6 Hours; AHD255=After Hours Dim, 7 Hours; AHD355=After Hours Dim, 8 Hours; DALI=DALI Drivers

Controls and Systems Options (Add as Suffix): BPC=Button Type Photocontrol. Must specify voltage 120V, 208V, 240V or 277V.; PR=NEMA 3-PIN Photocontrol Receptacle; PR7=NEMA 7-PIN Photocontrol Receptacle; FADC=Field Adjustable Dimming Controller; PSC=Photocontrol Shorting Cap; SPB2=Dimming Motion Sensor, 9'-20' mounting; SPB4=Dimming Motion Sensor, 21'-40' mounting; SPB2/X=Dimming Motion Sensor, limited square count, 9'-20' mounting; SPB4/X=Dimming Motion Sensor, limited square count, 21'-40' mounting; MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting; MS/DIM-L40=Motion Sensor for Dimming Operation, 21'-40' Mounting; WLS2XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7'-15' Mounting; WLS4XX=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15'-40' Mounting; WPS2XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7'-15' Mounting; WPS4XX=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15'-40' Mounting; DIM10-L20=AirMesh Occupancy Sensor (9'-20' Mounting); DIM10-L40=AirMesh Occupancy Sensor (21'-40' Mounting)

Accessories (Order Separately): OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V; OA/RA1027=NEMA Photocontrol - 480V; OA/RA1201=NEMA Photocontrol - 347V; OA/RA1013=Photocontrol Shorting Cap; OA/RA1014=120V Photocontrol; MA1252=10kV Surge Module Replacement; MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon; MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon; MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon; MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon; MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon; MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon; MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon; MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon; MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon; MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon; MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon; MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon; MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon; SRA238=Adapter kit for mounting 3" SP arm to 2-3/8" O.D. vertical tenon; FSIR-100=Wireless Configuration Tool for MS/DIM; LS/HSS=Field Installed House Side Shield for SA Light Squares; LS/HSS-SB=Field Installed House Side Shield for SB Light Squares; LS/BCS=Backlight Control Shield; LS/GRSBK-2PK=Glare Reducing Shield, Black; LS/GRSWH-2PK=Glare Reducing Shield, White; LS/PFS=Perimeter Shield, Black; WOLC-7P-10A=WaveLinx Outdoor Control Module; TL7-G1-HV=AirMesh 7-PIN node, 110-480V; CBSSW-450-002=AirMesh central base station with 5-button control

NOTES: [1–38 fine print notes]

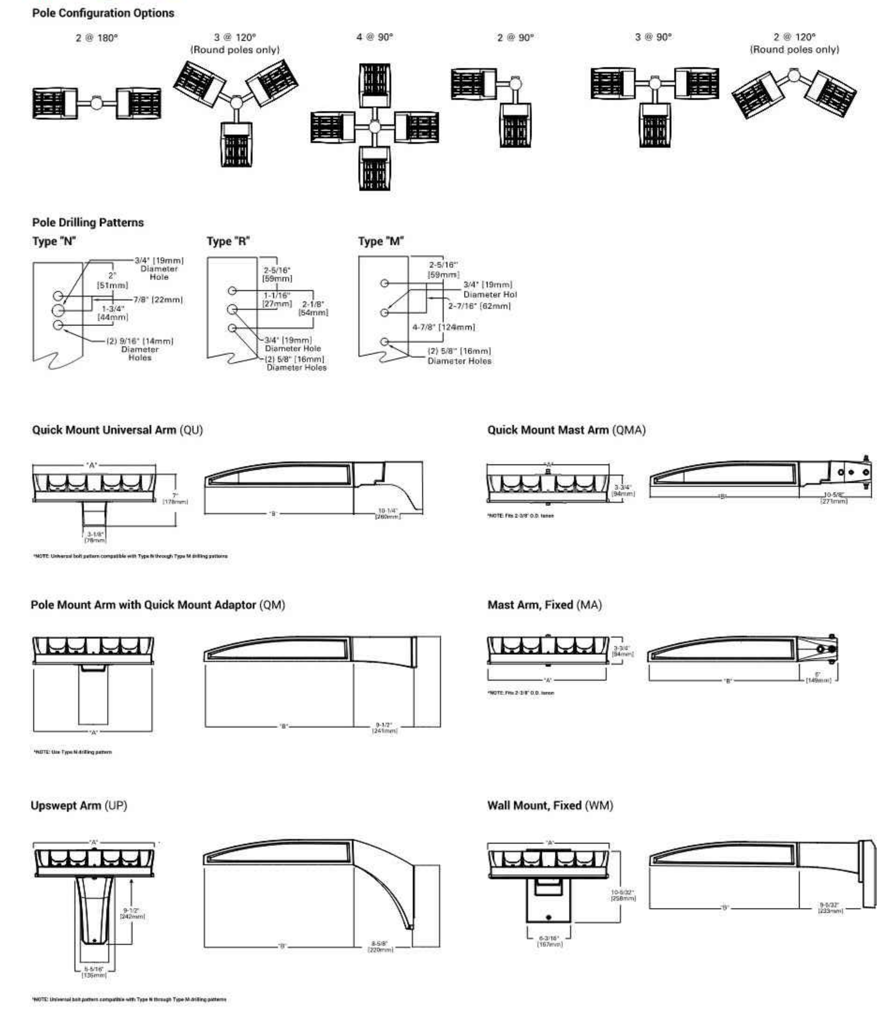
McGraw-Edison — GALN Galleon II

Mounting Details

Pole Configuration Options: 2 @ 180°; 3 @ 120° (Round poles only); 4 @ 90°; 2 @ 90°; 3 @ 90°; 2 @ 120° (Round poles only)

Pole Drilling Patterns: Type "N"; Type "R"; Type "M"

Quick Mount Universal Arm (QU); Quick Mount Mast Arm (QMA); Pole Mount Arm with Quick Mount Adaptor (QM); Mast Arm, Fixed (MA); Upswept Arm (UP); Wall Mount, Fixed (WM)

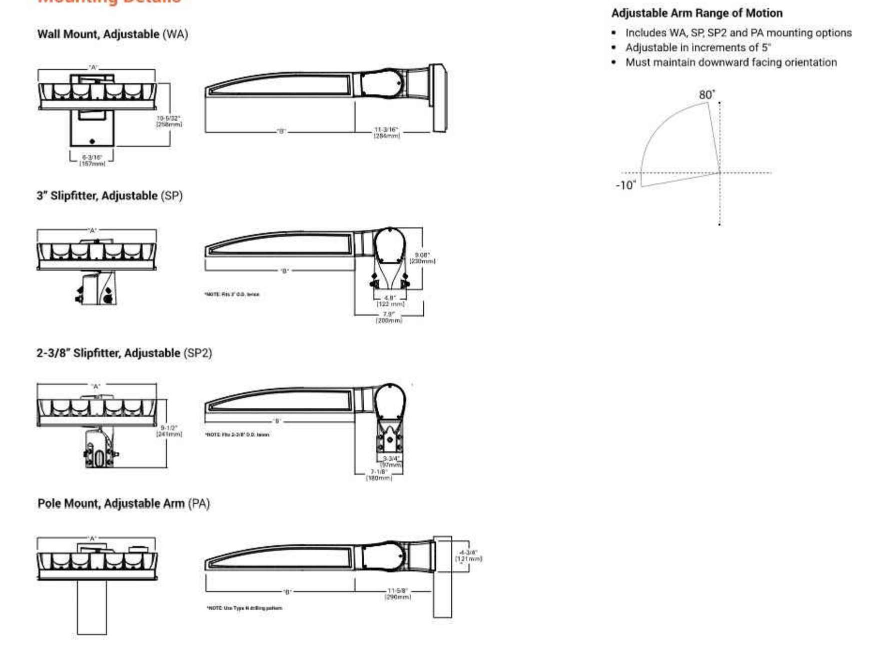


McGraw-Edison — GALN Galleon II

Mounting Details

Wall Mount, Adjustable (WA); 3" Slipfitter, Adjustable (SP); 2-3/8" Slipfitter, Adjustable (SP2); Pole Mount, Adjustable Arm (PA)

Adjustable Arm Range of Motion
- Includes WA, SP, SP2 and PA mounting options
- Adjustable in increments of 5°
- Must maintain downward facing orientation

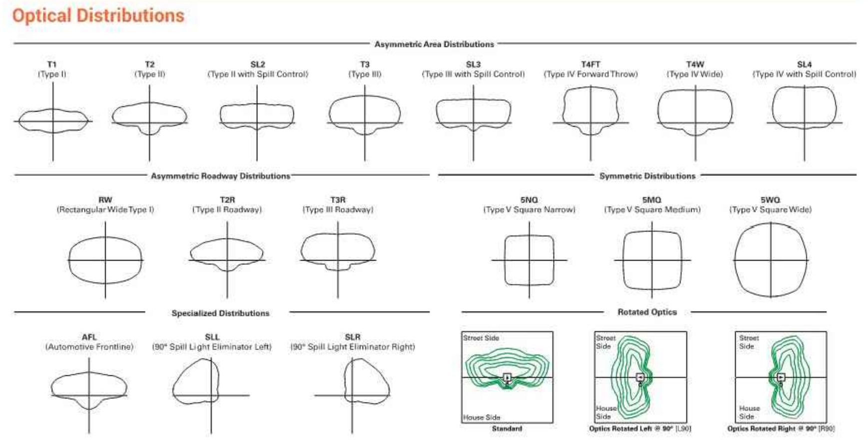


Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

McGraw-Edison — GALN Galleon II

Optical Distributions



Product Specifications

Construction
- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

Optics
- High-efficiency injection-molded AccuLED Optics technology
- 17 optical distributions for area site and roadway applications
- 4 shielding options include HSS, BCS, GRS and PFS
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- 5 step MacAdam ellipse binning (5 SDCM) standard with 70CRI and 80CRI. 3SDCM option available with 740 CRI/CCT. 3 step MacAdam ellipse binning standard with 90CRI

Electrical
- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability
- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

Mounting
- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish
- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Compliance
- Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified
- IDA Certified (3000K CCT and warmer only, fixed mounting options)
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Buy America Build America Act (BABA).BABA is the minimum Government compliance requirement for the Buy America Build America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

Typical Applications
- Outdoor, Parking Lots, Walkways, Roadways, Building Areas
- Sports lighting, including tennis, pickleball, basketball courts

Warranty
- Five-year limited warranty. Consult website for details. www.cooperlighting.com/legal

McGraw-Edison — GALN Galleon II

Energy and Performance Data

Lumen Maintenance (TM-21)

Output Level	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Output Levels 1-3	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
Output Level 4	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards
** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings SA1-SA3 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

FADC Settings SA4-SA6 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	14%
2	25%
3	32%
4	43%
5	49%
6	57%
7	65%
8	72%
9	80%
10	100%

Note: +/-5% typical value

FADC Settings SA7-SA9 (All Output Levels)

FADC Position	Percent of Typical Lumen Output
1	19%
2	38%
3	47%
4	63%
5	74%
6	85%
7	95%
8	97%
9	100%
10	100%

Note: +/-5% typical value

Drive Currents

Lumen Output	SA Light Squares	SB Light Squares
Output Level 1	615mA	350mA
Output Level 2	800mA	450mA
Output Level 3	1050mA	615mA
Output Level 4	1200mA	900mA

McGraw-Edison — GALN Galleon II

Control Options

0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (BPC, PR and PR7)
Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (SPB and MS/DIM-LXX)
These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB (FSP-321 or FSP-311) or MS/DIM (FSP-211) sensor options are selected, the occupancy sensor is connected to a dimming driver and the luminaire dims when no motion is detected. After a set period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. Both sensors are factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM sensor requires the FSIR-100 programming tool to adjust factory defaults. The SPB sensor default parameters are listed in the table below and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares (See SPB/X Availability Table below.) An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

SPB sensor finish matched to luminaire finish

	Luminaire Finish	SPB Sensor Finish*
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

*SPB bezel color automatically selected based on luminaire finish

SPB/X Availability Table

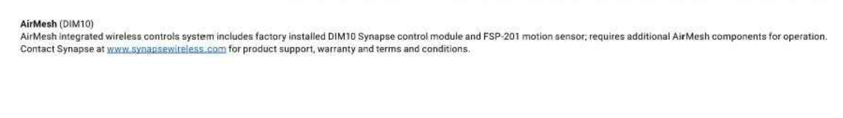
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

Default Program Settings (Out of the Box Functionality)

Setting	MS/DIM	SPB	WaveLinx Lite (WLS4 / WLS2)	WaveLinx (WPS)
High Mode %	100%	100%	100%	100%
Low Mode %	10%	10%	50%	50%
Time Delay	5 min	5 min	15 min	15 min
Cut Off Delay	1 hr	1 hr	Disabled	Disabled
Photocell Enabled	No	No	Yes	Yes

WaveLinx Wireless Control and Monitoring System
Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2) — For mounting heights up to 40' (WPS4 and WLS4)



AirMesh (DIM10)
AirMesh integrated wireless controls system includes factory installed DIM10 Synapse control module and FSP-201 motion sensor; requires additional AirMesh components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GKO Gekko

Wall Mount Luminaire

Product Features

Product Certifications

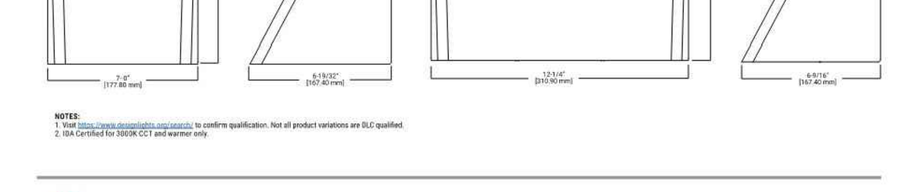
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Quick Facts
- Available in small and medium housing sizes
- Choice of 5 optical distributions
- 11 lumen packages from 750 up to 13,500
- Efficacies up to 169 lumens per watt

Connected Systems
- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details

PB1 Net Weight: 6.0 lbs (2.7 kg) — PB2 Net Weight: 10.6 lbs (4.8 kg)



NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

McGraw-Edison — GKO Gekko

Ordering Information

SAMPLE NUMBER: GKO-PB2A-740-U-T3-BK

Product Family	Light Engine	Size	Lumen Output	Color Temperature	Voltage	Distribution	Finish
GKO=Gekko Wall Luminaire; BAA-GKO=Gekko Buy American Act Compliant; TAA-GKO=Gekko Trade Agreements Act Compliant; BABAF-GKO=Gekko Build America Buy America Act Compliant for FHWA funded projects	PB=Mini 10-LED Light Square	1=Small, 1 Square; 2=Medium, 2 Squares	A=Output Level 1; B=Output Level 2; C=Output Level 3; D=Output Level 4; E=Output Level 5; F=Output Level 6	722=70 CRI, 2200K CCT; 727=70 CRI, 2700K CCT; 730=70 CRI, 3000K CCT; 735=70 CRI, 3500K CCT; 740=70 CRI, 4000K CCT; 750=70 CRI, 5000K CCT; 827=80 CRI, 2700K CCT; 830=80 CRI, 3000K CCT; 835=80 CRI, 3500K CCT; 840=80 CRI, 4000K CCT; 850=80 CRI, 5000K CCT; AMB=Amber 590nm	U=120-277V; 1=120V; 2=208V; 3=240V; 4=277V; 8=480V; 9=347V	T1=Type I; T2R=Type II Round; T2U=Type II Urban; T3=Type III; T4W=Type IV Wide	AP=Grey; BZ=Bronze; BK=Black; DP=Dark Platinum; GM=Graphite Metallic; NW=New White

Options (Add as Suffix): F=Single Fused (120, 277 or 347, Specify Voltage); FF=Double Fused (208, 240 or 480, Specify Voltage); 20MSP=Parallel 20kV MOV Surge Protective Device; 20K=Series 20kV UL1449 Fused Surge Protective Device; 2L=Two Circuits; EBP=6W Battery Pack; CBP=6W Battery Pack, Cold Weather Rated; CBP-CEC=8W Battery Pack, Cold Weather Rated, CEC Compliant; HSS=Factory Installed House Side Shield; HA=50C° High Ambient; CC=Coastal Construction

Controls and Systems Options (Add as Suffix): BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage); FADC=Field Adjustable Dimming Controller; SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting; SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting; MS/DIM-L08=Motion Sensor for Dimming Operation, <8' Mounting; MS/DIM-L20=Motion Sensor for Dimming Operation, 8'-20' Mounting; WPS2WH=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7'-15' Mounting; WPS4WH=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15'-40' Mounting; WLS2WH=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7'-15' Mounting; WLS4WH=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15'-40' Mounting

Accessories (Order Separately): PBHSS=House Side Shield (Single); PBPFS=Perimeter Fence Shield Kit (4 Pieces); FSIR-100=Wireless Configuration Tool for MS/DIM; MA1252=10kV Surge Module Replacement; BB/GKO-XX=Surface mount backbox

NOTES: [1–19 fine print notes]

Product Specifications

Construction
- Available in small (1 square) and medium (2 square) sizes
- Die-cast aluminum housing
- IP66 rated housing
- IK10 impact rated

Optics
- 10-LED square light engine
- 5 optical distributions
- IDA Certified (3000K CCT and warmer only)
- 2 versions of field-installable shielding for superior spill light control
  - Single-piece snap-on square shields (HSS)
  - Multiple-piece configurable vertical perimeter shielding (PFS)

Electrical
- Standard with 0-10V dimming
- Standard with 10kV surge device
- 10kV or 20kV surge protective options with series or parallel configurations
- -40°C to 40°C ambient temperature operating range with optional high ambient (HA) 50°C

Controls
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Default setting is the highest position at the lumen output selected

Finish
- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- 3,000-hours per ASTM B117, with a scribe rating of 7 per ASTM D1654 for standard color finish
- Coastal Construction (CC) option available

Typical Applications
- Exterior wall, walkway

Compliance
- BAA domestic preference option meets BAA requirements. See DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams.
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN

Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26



Sealed 11/03/2026

DRAWING NAME:
Lighting Details

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
LP-101

Project No: 24-4023

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HADCO
by ⓒignify

Urban
TownView
TVPC/TVPR
Post top and arm mount luminaire



Hadco TownView LED post top luminaires were designed to eliminate the compromises of performance, comfort, style options and value when choosing the right lighting solution for residential street and pedestrian area. The horizontal lens option reduces glare to enhance a sense of security with increased visual comfort. TownView offers design flexibility with a variety of style options, lumen packages, a range of control options and more at exceptional value.

Provide:
TVPR-S3-S-16-G1-7-3W-730-A-N-R7-N-SP1-N-N-N-BKS

Ordering guide: Luminaire

example: TVPC-S3-S-32-G1-7-3S-730-A-N-R7-N-SP1-T-N-N-BKS

Series	Mounting	Roof option	LED module	Generation	Drive current	Distribution	Color temp.	Voltage	Driver Option [1]
TVPC TownView with visual comfort	A [2] Arm Mt LA Large Post Top Fitter (open less entry) LS Large Post Top Fitter 3" (lost-less entry) S2 Small Post Fitter 2-3/8" S3 Small Post Fitter 3" S4 Small Post Fitter 4"	S Square Roof C Curved Roof	16 16 LEDs 32 32 LEDs 48 48 LEDs	G1 Gen1 G1 Gen1 G1 Gen1	5 530 mA 6 700 mA 9 800 mA 1 1050 mA 5 530 mA 7 700 mA 8 800 mA 1 1050 mA 5 530 mA 7 700 mA	2W Type 2 Wide 3S Type 3 Short 3M Type 3 Medium 3W Type 3 Wide 3WH Type 3 Wide House-side shield 5 Type 5	730 3000K (70 CRI) 740 4000K (70 CRI) 827 2700K (80 CRI)	A 120-277V 1 480V 4 347V	DA [3] 4 Hrs 20% Reduction DB [3] 4 Hrs 30% Reduction DC [3] 4 Hrs 75% Reduction DD [3] 5 Hrs 20% Reduction DE [3] 6 Hrs 50% Reduction DF [3] 6 Hrs 75% Reduction DG [3] 8 Hrs 25% Reduction DH [3] 8 Hrs 50% Reduction DJ [3] 8 Hrs 75% Reduction DL [4] DALI (Default: logarithmic) CLO [5] Constant light output ADT [6] Adjustable startup time OTL [7] Over the life (default, L70 hrs) S [8] FAWS Field adjustable wattage selector SRD [9] Sensor ready driver (Luminaire configurator) N None

Ordering guide (continued)

Photo Control Receptacle	Sensor Receptacle [1]	Surge Protection	Term Block	Decorative Option	Bird Guard	Finish [2]
R7	N	SP1	N	N	N	BKS
XT 7 Pin Isolexx rotatable standard - with photocell XTA/XTB - not compatible	N None	SP1 10kV/10kA Surge Protector SP2 20kV/20kA Surge Protector	T 3x terminal block N None	XT 7 pin Isolexx Rest. N None	N None	BKS Black Smooth WHS White Smooth BZS Bronze Smooth GNS Green Smooth BK Black Texture WH White Texture BZ Bronze Texture GN Green Texture
PHB [3] 7 Pin Isolexx rotatable standard - with photocell photocell has dimensional limits: 3" dia x 2" tall (for non black finishes only)						
PHS 7 Pin Isolexx rotatable standard - with shorting cap						
PHC 7 Pin Isolexx rotatable standard - with long life photocell. Photocell has dimensional limits: 3" dia x 2" tall (For non black finishes only)						
SR Sensor ready receptacle located on the heat sink between two LED boards. Cannot be combined With 16 or 48 LED's or horizontal lens. Contact factory for use with panel TVP options.						
L Decorative Ladder Rest. Ships in the same carton as the luminaire for installation on site						
2H, 3SH, 3WH House side shield option						

Footnotes see page 2.

TVPC/TVPR TownView

Post top and arm mount luminaire

Specifications (continued)

Driver:

Driver comes standard with 0-10V dimming capability. High power factor of 95%. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277, 347 and 480 VAC rated for both application line to line or line to neutral. Class I, THD of 20% max. Maximum ambient operating temperature from 40°F (4°C) to 120°F (55°C). Certified in compliance to UL1310 (class requirement Dry and damp location) .) The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Integrated Features

R7*: Tool less installation receptacle with 7 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock intersect City node or photoelectric cell or a shorting cap.

SP1: Surge protection device tested in accordance with ANSI/IEEE C62. 45 per ANSI/ IEEE C62. 41.2 Scenario II Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test levels 10kV/10kA.

SP2: Optional 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

NEMA Labels: Installed NEMA label. ANSI C136.15 - 2013 compliant, Consult factory for other labeling needs.

Please note that these integrated features always come with the luminaire.

* Use of photoelectric cell or shorting cap is required to ensure proper illumination.

Driver and Luminaire Options

Dimming Options:

DA: 4 Hrs 25% reduction
DB: 4 Hrs 30% reduction
DC: 4 Hrs 75% reduction
DD: 6 Hrs 25% reduction
DE: 6 Hrs 50% reduction
DF: 6 Hrs 75% reduction
DG: 8 Hrs 25% reduction
DH: 8 Hrs 50% reduction
DJ: 8 Hrs 75% reduction
DL: Pre-set driver compatible with the DALI control system. Logarithmic standard
AST: Pre-set driver for progressive start-up of the LED module(s) to optimize energy management and enhance visual comfort at start-up.
CLO: Pre-set driver to manage the lumen depreciation by adjusting the power given to the LEDs offering the same lighting intensity during the entire lifespan of the LED module.
OTL: Pre-set driver to signal end of life of the LED module(s) for better fixture management.
FAWS: Field Adjustable Wattage Selector, pre-set to the highest position, can be easily switched in the field to the required position. This reduces total luminaire wattage consumption and reduces the light level - see the FAWS multiplier chart for more details.
Note: It is not recommended to use FAWS with other dimming or controls. If you do, set the switch to position 10 (maximum output) to enable the other dimming or controls. Switching FAWS to any position other than 10 will disable the other dimming or controls.
DALI: Pre-set driver compatible with DALI control system.
SRD: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle.
SR01: Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock.

PHB: 7 Pin Tooless rotatable standard - with photocell. Photocell has dimensional limits: 3" dia x 2" tall (for non black finishes only)



PHS: 7 Pin Tooless rotatable standard - with shorting cap



PHC: 7 Pin Tooless rotatable standard - with long life photocell. Photocell has dimensional limits: 3" dia x 2" tall (For non black finishes only)



SR: Sensor ready receptacle located on the heat sink between two LED boards. Cannot be combined With 16 or 48 LED's or horizontal lens. Contact factory for use with panel TVP options.



L: Decorative Ladder Rest. Ships in the same carton as the luminaire for installation on site



2H, 3SH, 3WH: House side shield option



TVPC/TVPR TownView

Post top and arm mount luminaire

Specifications (continued)

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on IESNTT in situ thermal testing in accordance with UL1598 and UL8750. System Reliability Tool. Philips Advance data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours (72W32LED and 108W48LED at 700mA) or 94,500 hours (108W32LED and 160W48LED at 1050mA) with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for: LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Wiring

18AWG wire, 6" (15mm) minimum extending from luminaire.

Optional Terminal block

Terminal block connector 600V, 85A for use with #14-2 AWG wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 30Amp time-delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses. Fuses and holders by others or consult factory

Hardware

All non-ferrous fasteners prevent corrosion and ensure longer life. All seals and sealing devices are made and/or lined with EPDM silicone rubber.

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ±1 mils/ 24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.
The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

BKS: Black Smooth
WHS: White Smooth
BZS: Bronze Smooth
GNS: Green Smooth
BK: Black Texture
WH: White Texture
BZ: Bronze Texture
GN: Green Texture

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light-emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards to eliminate ESD events that could decrease the usefull life of the product.

Vibration Resistance

S2, S3, S4 Fitter and A Arm Mount Meets the ANSI C136.31, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications (Tested for 30 over 100,000 cycles).

Certifications and Compliance

cETL, listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. UL8750 and UL1598 compliant. ETL, listed to U.S. safety standards for wet locations cETL, listed to Canadian safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights TM Consortium (DLC) Qualified Products List (QPL) ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away.
For more details visit: **philips.com/servicetag**

Limited Warranty

5 year standard warranty. Options available for extended warranties - contact factory. See **signify.com/warranties** for details and restrictions.

Brackets and Poles

Visit the website for pole and post top bracket options.

TVPC/TVPR TownView

Post top and arm mount luminaire

Ordering Guide: Arm mount

Must be ordered as a separate line item (if Arm Mount option is chosen for Fixture)

Code	Mount	Width	Options	Finish
TV	A	55	S	BKS
TV TownView	A Arm Mount	55 55.9" wide	S Decorative Scroll	BKS Black Smooth WHS White Smooth BZS Bronze Smooth GNS Green Smooth BK Black Texture WH White Texture BZ Bronze Texture GN Green Texture

Only available with Square roof

Footnotes

1. Only S Square roof available with A Arm Mount
2. Consult factory for information and lead time
3. Only pick one option from the Control list - for multiple control options consult the factory
4. This option requires more information contact factory
5. Only available with 120-277 V
6. Ladder rest option not available with Arm Mount
7. Not available with 347V
8. Order a TVLN (no panel version if you want the SR Receptacle option) Or consult factory to review sensor compatibility with panels.
9. Whole sky knob either the **BKS** or **BK** is selected cupola will be metal and painted to match finish. Cupola supplied with **BKS** or **BK** finish option may be used with intersect City Astro-Clock node. If using Intersect City with other finishes, cupola must be removed and Astro-Clock node is not required
10. Position 10 is open for receptacle control, must use one or the other not BOTH
11. **SR** Receptacle only available with 32 LED. Fixture side is mounted in the middle of the board) and **SRD** Driver is required if you choose this receptacle

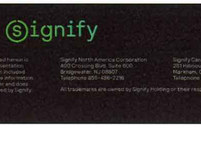
Dimensions: Arm mount

TVPx-A-S

Arm: Made of aluminum tubing

Decorative Element: Bent aluminum decorative channel acrylic mechanically assembled.

Mounting Plate: Made of aluminum, mechanically fastened to the pole.



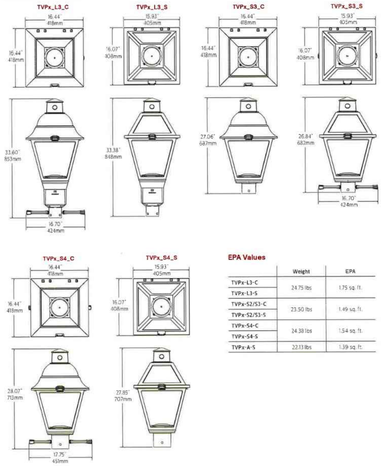
EPA Values

	Weight	EPA
TVPx-A-S	14 lbs.	1.95 ft².

TVPC/TVPR TownView

Post top and arm mount luminaire

Dimensions: Luminaire



EPA Values

	Weight	EPA
TVPx-L3-C	24.75 lbs	1.75 sq. ft.
TVPx-L3-S		
TVPx-S2/S3-C	23.50 lbs	1.49 sq. ft.
TVPx-S2/S3-S		
TVPx-S4-C	24.30 lbs	1.54 sq. ft.
TVPx-S4-S		
TVPx-A-S	22.13 lbs	1.39 sq. ft.

TVPC/TVPR TownView

Post top and arm mount luminaire

Specifications (continued)

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ±1 mils/ 24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.
The surface treatment achieves a minimum of 2000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

BKS: Black Smooth
WHS: White Smooth
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cETL, listed to Canadian safety standards for wet locations. Manufactured to ISO 9001:2008 Standards. UL8750 and UL1598 compliant. ETL, listed to U.S. safety standards for wet locations cETL, listed to Canadian safety standards for wet locations. LM80 & LM79 tested. Listed on the DesignLights TM Consortium (DLC) Qualified Products List (QPL) ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away.
For more details visit: **philips.com/servicetag**

Limited Warranty

5 year standard warranty. Options available for extended warranties - contact factory. See **signify.com/warranties** for details and restrictions.

Brackets and Poles

Visit the website for pole and post top bracket options.

TVPC/TVPR TownView

Post top and arm mount luminaire

LED Lumen values - TVPR (Vertical Ribbed Panels and House-side shield)

Ordering Code	LED qty.	System Current (mA)	Color Temp.	Avg. System Wattage (W)	Type 2WR Lumen Output	Type 2WR Efficacy (LPW)	Type 2WR BUG Rating	Type 3SR Lumen Output	Type 3SR Efficacy (LPW)	Type 3SR BUG Rating	Type 3WHR Lumen Output	Type 3WHR Efficacy (LPW)	Type 3WHR BUG Rating
TVPR-16-S1-S-x-730	16	530	3000	29	2,210	76	B1-U2-G1	2,457	85	B1-U2-G1	2,265	78	B1-U3-G1
TVPR-16-S1-7-x-730	16	700	3000	38	2,756	73	B1-U2-G1	3,018	82	B1-U2-G2	2,865	75	B1-U3-G1
TVPR-16-S1-9-x-730	16	900	3000	49	3,431	70	B1-U3-G2	3,814	78	B1-U3-G2	3,616	73	B1-U3-G2
TVPR-16-S1-1-x-730	16	1050	3000	57	3,866	68	B1-U3-G2	4,299	75	B1-U3-G2	3,963	70	B1-U3-G2
TVPR-32-S1-5-x-730	32	530	3000	53	4,265	80	B1-U3-G2	4,470	84	B1-U3-G2	4,470	84	B1-U3-G2
TVPR-32-S1-7-x-730	32	700	3000	70	5,385	77	B1-U3-G1	5,810	83	B1-U3-G1	5,613	80	B1-U3-G2
TVPR-32-S1-8-x-730	32	800	3000	80	5,912	75	B1-U3-G1	6,478	81	B1-U3-G1	6,394	79	B1-U3-G2
TVPR-32-S1-1-x-730	32	1050	3000	108	7,527	69	B2-U3-G2	8,115	75	B2-U3-G2	7,889	73	B2-U3-G2
TVPR-48-S1-5-x-730	48	530	3000	81	6,502	80	B1-U3-G2	7,028	87	B1-U3-G2	6,824	84	B1-U3-G2
TVPR-48-S1-7-x-730	48	700	3000	105	8,162	78	B2-U3-G2	8,822	84	B2-U3-G2	8,566	82	B2-U3-G2
TVPR-16-S1-5-x-740	16	530	4000	29	2,430	83	B1-U2-G1	2,701	92	B1-U2-G1	2,490	85	B1-U3-G1
TVPR-16-S1-7-x-740	16	700	4000	39	3,076	80	B1-U2-G1	3,418	89	B1-U2-G1	3,150	82	B1-U3-G1
TVPR-16-S1-9-x-740	16	900	4000	49	3,772	78	B1-U3-G1	4,193	85	B1-U3-G1	3,866	78	B1-U3-G2
TVPR-16-S1-1-x-740	16	1050	4000	58	4,251	74	B1-U3-G1	4,724	82	B1-U3-G1	4,357	76	B1-U3-G1
TVPR-32-S1-5-x-740	32	530	4000	54	4,689	87	B1-U3-G1	5,088	94	B1-U3-G1	4,921	91	B1-U3-G1
TVPR-32-S1-7-x-740	32	700	4000	71	5,920	83	B1-U3-G1	6,396	90	B1-U3-G1	6,213	88	B1-U3-G2
TVPR-32-S1-8-x-740	32	800	4000	81	6,388	81	B1-U3-G1	7,100	88	B1-U3-G1	6,914	85	B1-U3-G2
TVPR-32-S1-1-x-740	32	1050	4000	110	8,276	75	B2-U3-G2	8,944	82	B2-U3-G2	8,685	79	B2-U3-G2
TVPR-48-S1-5-x-740	48	530	4000	82	7,141	88	B1-U3-G2	7,727	95	B1-U3-G2	7,502	92	B1-U3-G2
TVPR-48-S1-7-x-740	48	700	4000	108	8,974	83	B2-U3-G2	9,699	92	B2-U3-G2	9,478	88	B2-U3-G2

Actual performance may vary due to installation variables including optics, mounting/setting height, dirt depreciation, light loss factor, etc; highly recommended to confirm performance with a layout contact Applications at outdoorlighting.applications@signify.com. Consult CLO QPL to confirm your specific fixture selection is DLC approved.

Note: Some data may be scaled based on tests of similar but not identical luminaires.

Specifications

Housing

Roof and Cage: Two Style options
C: Curved Roof and **S:** Square Roof. Tool-less latch made of stainless steel allows for quick access inside of the hinged roof to locate the driver, surge protector and optional FAWs (field adjustable wattage solution). Roof and Cage made of 360 low-copper die-cast aluminum alloy. Decorative Cupola on top of roof covers the 7 pin NEMA socket.
Panels: Two panel options made of U.V. Stabilized Acrylic.
D: Visual Comfort panels help to eliminate glare and pixelization and give a soft glow at night.
R: Vertical Ribbed panels, for a clear look during the day and performance at night.
All panels have tool-less removal for ease of cleaning or replacement. (exception for arm mount)
Fitter: Two fitter options. **L:** Large Utility Fitter with tool-less door to access the terminal block and wiring. Available in 3" or 4"
Or **S:** Small Fitter. Small fitter available in 2" 3/8, 3" or 4". Large 4" fitter uses a secondary adaptor to achieve 4" opening.

Light Engine

Composed of 4 main components: **LED Module / Optical System / Heat Sink / Driver.**
Electrical components are RoHS compliant, IP66 sealed light engine LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan

LED Module

Composed of high-performance white LEDs. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K) CRI 80 min, 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory.

Heat Sink

Made of die cast aluminum optimizing the LEDs efficiency and life. Product does not use any cooling device with moving parts (only passive cooling device). Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +40°C / +104°F.

Optical System

Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Type **2S**, **3S**, **3M** and Type **5** Street side indicated. House side shield optional (can be field installed) **2SH**: Type 2 with House Side Shield, **3SH**: Type 3 with house side shield, **2WH**: Type 3 Wide with House side shield

SPEC1566 11/15 spec-ex.com carries the most current spec information and supersedes these guidelines.

O-SERIES

Shakespeare

ROUND TAPERED COMPOSITE LIGHT POLE
DIRECT BURIAL INSTALLATION

Composite Light pole
O-Series
Direct Burial

SHAKESPEARE O-SERIES DIRECT BURIAL POLES



OVERALL LENGTH	MOUNTING HEIGHT	BURIAL DEPTH*	TIP DIAMETER	GROUNDLINE DIAMETER	WEIGHT**
13	10	3	4.1	5.4	28
14	11	3	4.1	5.6	29
15	12	3	4.1	5.7	31
16	13	3	4.1	5.8	34
18	14	4	4.1	5.9	37
19	15	4	4.1	6.1	38
20	16	4	4.1	6.2	42
21	17	4	4.1	6.3	45
22	18	4	4.1	6.5	49
23	19	4	4.1	6.6	51
24	20	4	4.1	6.7	52

- Mounting heights to 20 feet
- Smooth, semi-smooth or natural finish
- 3 standard and 5 special architectural colors available
- High performance UV and weather-resistant pigmented resin system with an additional pigmented polyurethane coating
- Tenon top or Drilled and Capped
- Standard 2-1/2" x 5" handhole located 18" above grade
- Standard 2 EA - 2-1/2" x 6" wire access hole 24" below grade
- Anti-rotation flare structurally integrated into the pole base during manufacture
- Poles are individually identified with a permanent embossed tag located 9" from tip.
- Sleeved individually for shipment
- Lightweight, easy to install, saves money

B-O-18-01-S-1 Overall Length = 18'
Mounting Height = 14' "Town Standard 12/25"

*Town Standard 12/2025

ORDERING INFORMATION

B O 24 — 01 S 1 (*)

- B = DIRECT BURIAL
- SERIES
- OVERALL LENGTH
- TENON: 01 = 3" X 3.75" TENON; 02 = 2.375" X 3.75" TENON; 06 = CAPPED; * CONSULT FACTORY FOR OPTIONS
- FINISH: S= SMOOTH; U= SEMI-SMOOTH; N = NATURAL
- STANDARD COLORS: 1 = BLACK; 2 = GRAY; 5 = DARK BRONZE
- PREMIUM COLORS: 3 = BROWN; 4 = LIGHT GREEN; 6 = SILVER; 7 = WHITE; 8 = DARK GREEN; 9 = CUSTOM
- DIGITS MAY BE ADDED FOR INTERNAL USE

SHAKESPEARE - VALMONT COMPOSITE STRUCTURES, INC. 19845 U.S. HIGHWAY 76 - NEWBERRY, SC 29108 USA
803.276.5504 - 800.800.9008 - FAX: 803.276.6940 SKP-CS.COM

O-SERIES

Shakespeare

ROUND TAPERED COMPOSITE LIGHT POLE - DIRECT BURIAL INSTALLATION

Composite Light pole
O-Series
Direct Burial

SPECIFICATIONS

1. Lighting poles shall be fiberglass reinforced composite per Shakespeare design.
2. Wind loading shall be calculated for the appropriate wind velocity with a 3 second gust factor per ASCE.
3. Effective projected area (EPA) is the actual area adjusted with the appropriate drag coefficient (shape factor) to result in an equivalent area having a drag coefficient equal to one (1) using ANSI 136.20

MATERIALS

1. The round tapered pole shall be constructed by the filament winding process from thermosetting polyester resin and contain a minimum of 65 percent "E" type fiberglass by weight. The filament windings shall be continuously applied with uniform tension and shall be placed on the pole helically at two angles to provide axial strength. Additional windings shall be placed on the pole in a circular manner to provide compressive strength.
2. The resin to make the pole shall be ultraviolet resistant and pigmented approximately the same color as the final coating to be applied. A highly weather resistant, pigmented, polyurethane coating shall be applied to the pole. The coating shall have a minimum thickness of 1.5 mils.
3. The poles shall be flame resistant per ASTM D635. Specimens must cease to burn before the gauge mark of 100mm (3.9 inches) is reached.
4. (If applicable) The poles shall be delivered predrilled and capped (if applicable) to accommodate the lighting fixture(s) or mast arm(s) specified.
5. (If applicable) Tenons shall be permanently bonded to the fiberglass shaft and shall be hot-dipped galvanized steel to ASTM A153 or shall be 6061-T6 or A356-T6 aluminum.
6. The handhole opening shall be 2.5" x 5". The handhole cover is attached with a 1/4" socket head screw.

IDENTIFICATION & PACKAGING

Each pole shall bear an identification tag which shall list the model, catalog number, month and year of manufacture.
Each pole shall be individually packaged for protection during shipping.

TESTING

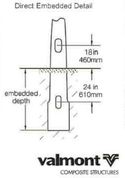
The surface shall have been tested for a minimum of 5000 hours of accelerated testing in accordance with ASTM G154 (UV-A Lamp 340 NM wavelength 130° F, cycle lamp 4 hours on, 4 hours off) with the following performance results:
• Fiber exposure: None | Crazing: None | Chalking: None | Color: Slight dulling may occur

WIND LOADING DATA

Wind speed (mph) values calculated as per ANSI C136.20 for a 3-second gust factor.

OVERALL LENGTH	MOUNTING HEIGHT	LUMINAIRE MAX WEIGHT (LBS.)	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH
12	10	150	11.8	9.2	7.5	6.2	5.2	4.4	3.8
14	11	150	11.3	8.8	7.2	5.9	5.0	4.2	3.6
15	12	150	10.2	8.0	6.5	5.3	4.4	3.7	3.2
16	13	150	9.4	7.4	5.9	4.9	4.1	3.4	2.9
18	14	150	8.7	6.8	5.5	4.5	3.7	3.1	2.6
19	15	100	9.2	8.0	6.5	5.3	4.4	3.7	3.1
20	16	100	9.3	7.3	5.9	4.8	4.0	3.3	2.8
21	17	100	8.6	6.7	5.4	4.4	3.6	3.0	2.5
22	18	100	7.9	6.1	4.9	3.9	3.2	2.7	2.2
23	19	100	7.2	5.6	4.4	3.6	2.9	2.4	2.0
24	20	100	6.6	5.1	4.0	3.2	2.6	2.1	1.8

Direct Embedded Detail



valmont
COMPOSITE STRUCTURES

SHAKESPEARE - VALMONT COMPOSITE STRUCTURES, INC. 19845 U.S. HIGHWAY 76 - NEWBERRY, SC 29108 USA
803.276.5504 - 800.800.9008 - FAX: 803.276.6940 SKP-CS.COM

TOWN OF AMHERST APPROVAL BOX:

CARMINWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family
208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274
& 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:		
No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER
Sealed 11/03/2026

DRAWING NAME:
Lighting Details

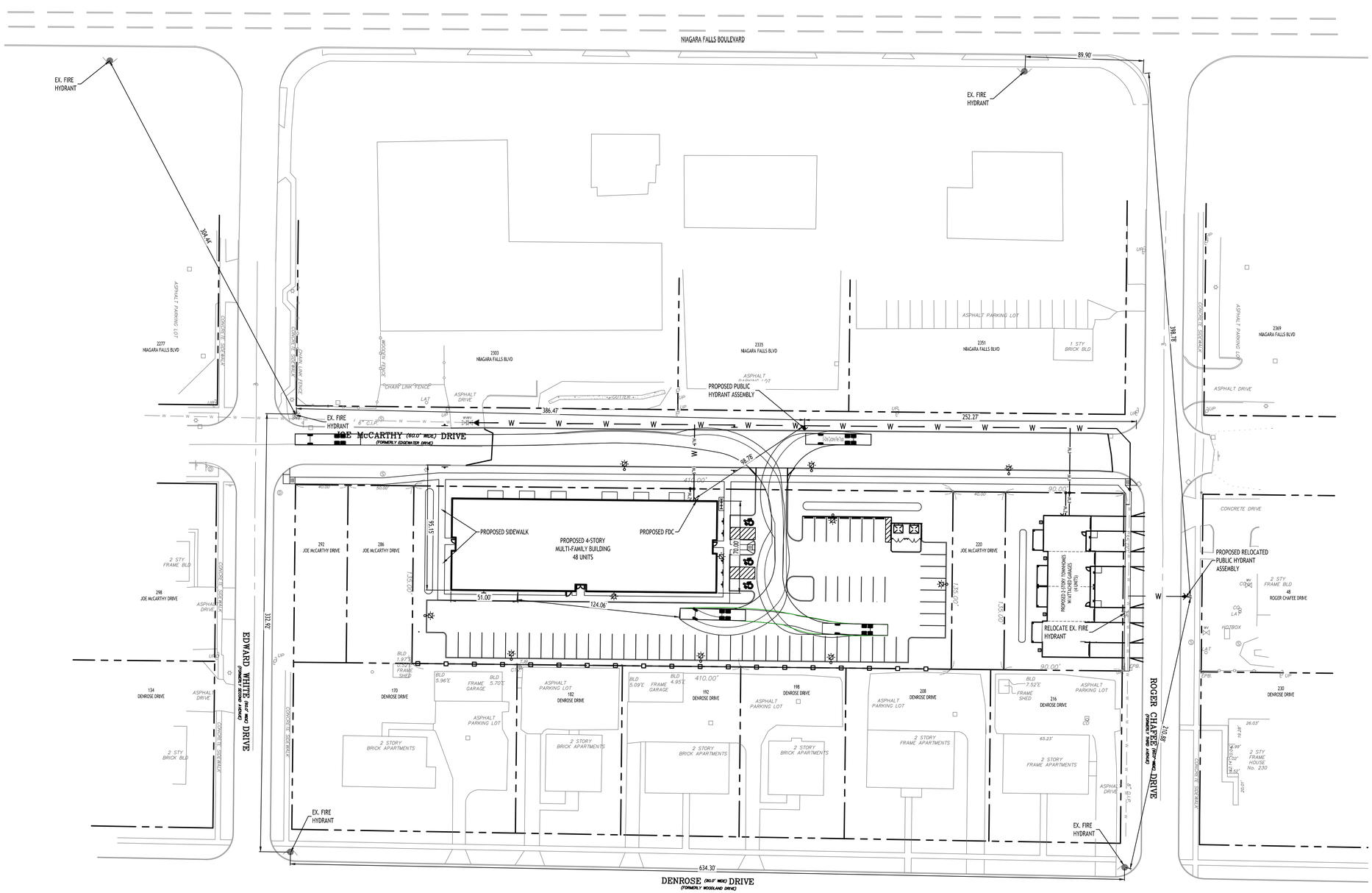
Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

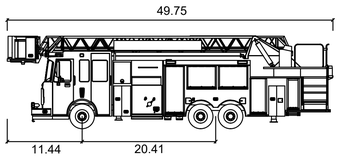
DRAWING NO.
LP-102

Project No: 24-4023

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E-One Cyclone II

	feet
Width	: 8.33
Track	: 8.33
Lock to Lock Time	: 6.0
Steering Angle	: 31.0

Fire Truck Turning Plan

SCALE: 1"=40'

NOTE: BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY OTHERS, CARMINA WOOD DESIGN ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

40' 40 0 40 80FT.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Proposed Multi-Family

208, 214, 226, 232, 238, 244, 250, 256, 262, 268, 274 & 280 Joe McCarthy Drive
Amherst, NY

REVISIONS:

No.	Description	Date
1	Rev. Per Town & Agency Comments	11/03/26

STATE OF NEW YORK * CHRISTOPHER WOOD * LICENSED PROFESSIONAL ENGINEER 076994

Sealed 11/03/2026

DRAWING NAME:
Fire Truck Turning Plan

Date: 04/20/26
Drawn By: D. Feyes
Scale: As Noted

DRAWING NO.
FT-100

Project No: 24-4023