Car Dealership
6766 Transit Road
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.
5583 MAIN ST.
ADDRESS: 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:. NUSSBAUMER & CLARKE, INC
ADDRESS: 3556 LAKE SHORE ROAD, SUITE 500
BUFFALO, NY 14219
716–827–8000
TELEPHONE

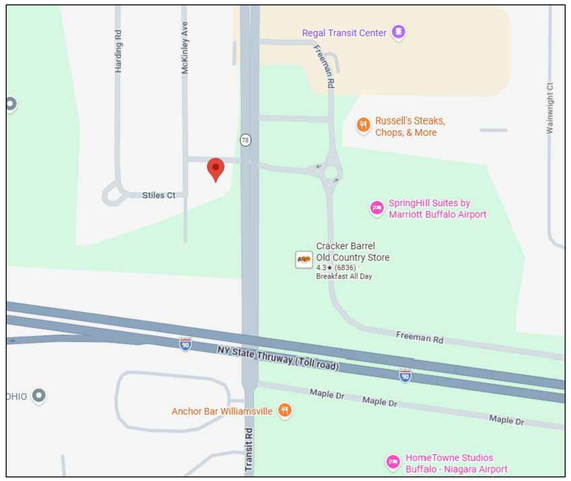
OWNER/DEVELOPER

NAME: WEST HERR AUTOMOTIVE GROUP
ADDRESS 2635 MILLERSPORT HIGHWAY
GETZVILLE, NY 14068
CONTACT: JIM MULKA
TELEPHONE 716-289-5372

CARMINAWOOD
DESIGN

REVISIONS:

No.	Description	Date
1	Per Town Comments	10/23/26

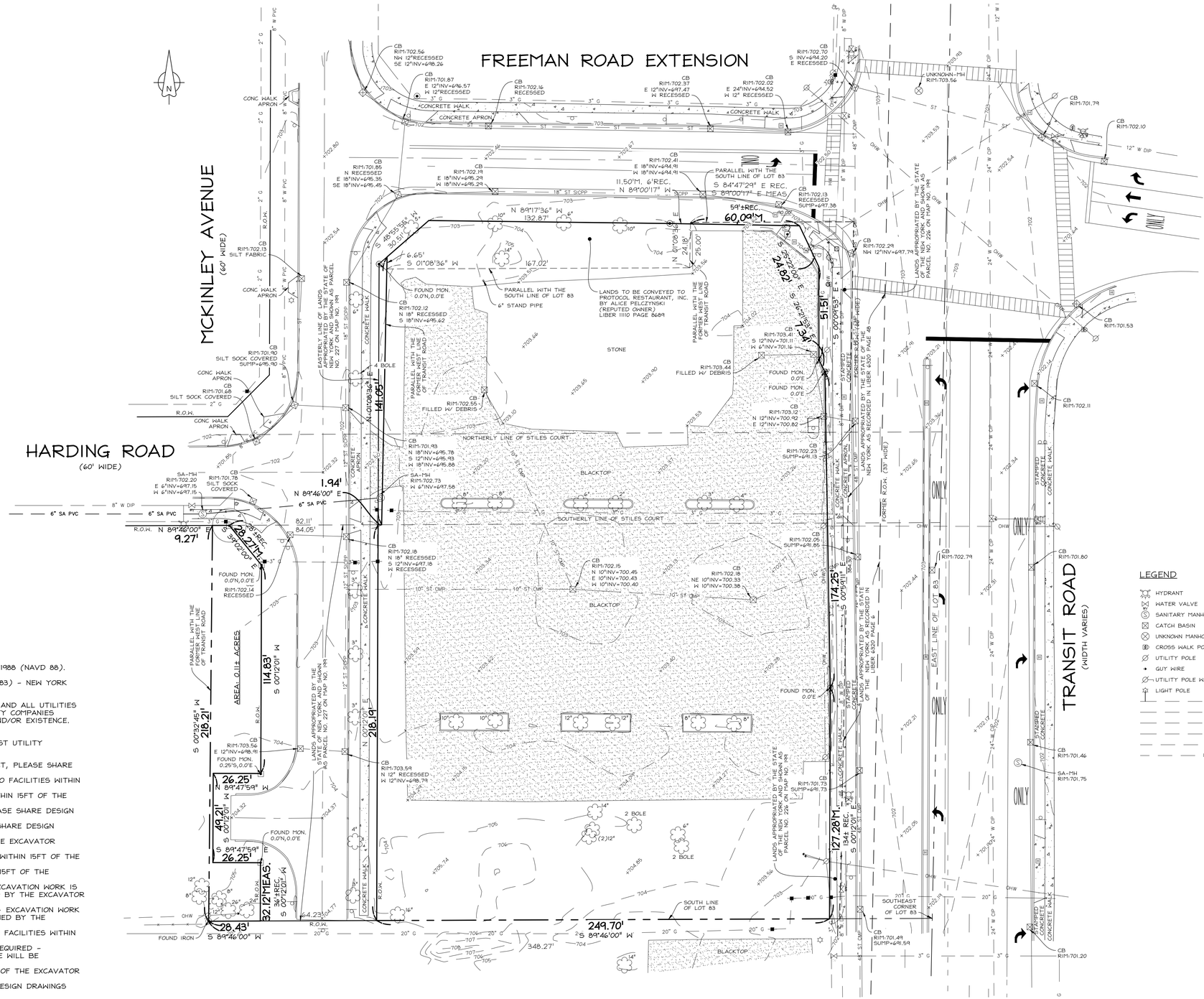


LOCATION MAP
NOT TO SCALE

DRAWING NO.	DRAWING TITLE
–	COVER SHEET
–	LAND SURVEY (PREPARED BY NUSSBAUMER & CLARKE)
C–001	EROSION CONTROL PLAN
C–002	EROSION CONTROL DETAILS
C–100	OVERALL SITE PLAN
C–101	SITE PLAN
C–102	SITE DETAILS
C–200	GRADING PLAN
C–300	DRAINAGE PLAN
C–301	DRAINAGE DETAILS
C–302	UNDERGROUND DETENTION DETAILS
C–400	UTILITY PLAN
C–401	UTILITY DETAILS
L–100	LANDSCAPE PLAN
L–101	LANDSCAPE DETAILS
LP–100	LIGHTING PLAN
LP–101	LIGHTING DETAILS
T–100	FIRE ACCESS PLAN
T–101	TRUCK TURNING PLAN

June 2026

Car Dealership
6766 Transit Road
Amherst, New York



NOTES

1. ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. HORIZONTAL DATUM REFERENCES THE NORTH AMERICAN DATUM 1983 (NAD 83) - NEW YORK STATE PLANE WEST ZONE.
3. THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION ACTIVITIES, ALL UTILITY COMPANIES SHOULD BE NOTIFIED IN ORDER TO VERIFY OR AMEND THEIR LOCATIONS AND/OR EXISTENCE. FOR ASSISTANCE CALL UFPO AT 1-800-962-7962.
4. UDIGNY.ORG DESIGN TICKET NO. 06256-002-332 WAS SUBMITTED TO REQUEST UTILITY RECORDS:
   - CHARTER COM NORTHEAST WESTERN NY: HAS RESPONDED, DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH THEIR ENGINEERING DEPT.
   - ERIE COUNTY DIVISION OF SEWER MANAGEMENT: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA.
   - G4S SECURE INTEGRATION LLC: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA.
   - ERIE COUNTY WATER AUTHORITY: HAS RESPONDED, DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH THEIR ENGINEERING DEPT. DRAWN HERON.
   - NATIONAL FUEL GAS / NFG-113: HAS RESPONDED, DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH THEIR ENGINEERING DEPT. DRAWN HERON.
   - NATIONAL GRID: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA. ALL AERIAL LINES.
   - NYS DOT BUFFALO REGION 5 TMC: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA. ALL AERIAL LINES.
   - NYS THRUWAY AUTHORITY: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA. ALL AERIAL LINES.
   - NYSEG LANCASTER ELECTRIC: HAS RESPONDED, NO LOCATE REQUIRED - EXCAVATION WORK IS BEING PERFORMED FOR THE FACILITY OWNER. LOCATE WILL BE PERFORMED BY THE EXCAVATOR PER CONTRACTUAL AGREEMENT.
   - TOWN OF AMHERST ST LIGHTING: HAS RESPONDED, NO LOCATE REQUIRED - EXCAVATION WORK IS BEING PERFORMED FOR THE FACILITY OWNER. LOCATE WILL BE PERFORMED BY THE EXCAVATOR PER CONTRACTUAL AGREEMENT.
   - TOWN OF CHEEKTOWAGA HIGHWAY & SANITARY: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA.
   - TOWN OF CHEEKTOWAGA STREET LIGHTING: HAS RESPONDED, NO LOCATE REQUIRED - EXCAVATION WORK IS BEING PERFORMED FOR THE FACILITY OWNER. LOCATE WILL BE PERFORMED BY THE EXCAVATOR PER CONTRACTUAL AGREEMENT.
   - TOWN OF LANCASTER: HAS RESPONDED, CLEAR NO FACILITIES WITHIN 15FT OF THE EXCAVATOR DEFINED WORK AREA.
   - VERIZON / BUFFALO: HAS RESPONDED, DESIGN CONFLICT, PLEASE SHARE DESIGN DRAWINGS WITH THEIR ENGINEERING DEPT.

LEGEND

HYDRANT	ELECTRIC MANHOLE
WATER VALVE	HANDHOLE
SANITARY MANHOLE	ELECTRIC BOX
CATCH BASIN	CABLE BOX
UNKNOWN MANHOLE	TELEPHONE BOX
CROSS WALK POLE	UTILITY BOX
UTILITY POLE	SIGN
GUY WIRE	GAS VALVE
UTILITY POLE W/ LIGHT	GAS MARKER
LIGHT POLE	
W — UNDERGROUND WATER LINE	
SA — UNDERGROUND SANITARY SEWER LINE	
ST — UNDERGROUND STORM SEWER LINE	
G — UNDERGROUND GAS LINE	
OHW — OVERHEAD ELECTRIC WIRES	
UGE — UNDERGROUND ELECTRIC LINE	

THIS SURVEY IS NOT VALID WITH AN AFFIDAVIT OF NO CHANGE

NO MONUMENTS SET OR FOUND AT PROPERTY CORNERS UNLESS NOTED HEREON.

3556 Lake Shore Road, Suite 500, Buffalo, NY 14219
p (716) 827-8000 f (716) 270-6091 www.nussclarke.com

This survey was prepared without the benefit of an abstract of title and is subject to any state of facts that may be revealed by an examination of such.

Unauthorized alterations or additions to any survey, drawing, design, specification, plan or report is a violation of section 7209, provision 2 of the New York State Education Law.

TOPOGRAPHIC SURVEY
6766 Transit Road
Part of Lot 83, Township 11, Range 7
Holland Land Company's Survey
Town of Amherst
County of Erie, State of New York

Date of Survey: 07/06/2026

Scale : 1" = 30'

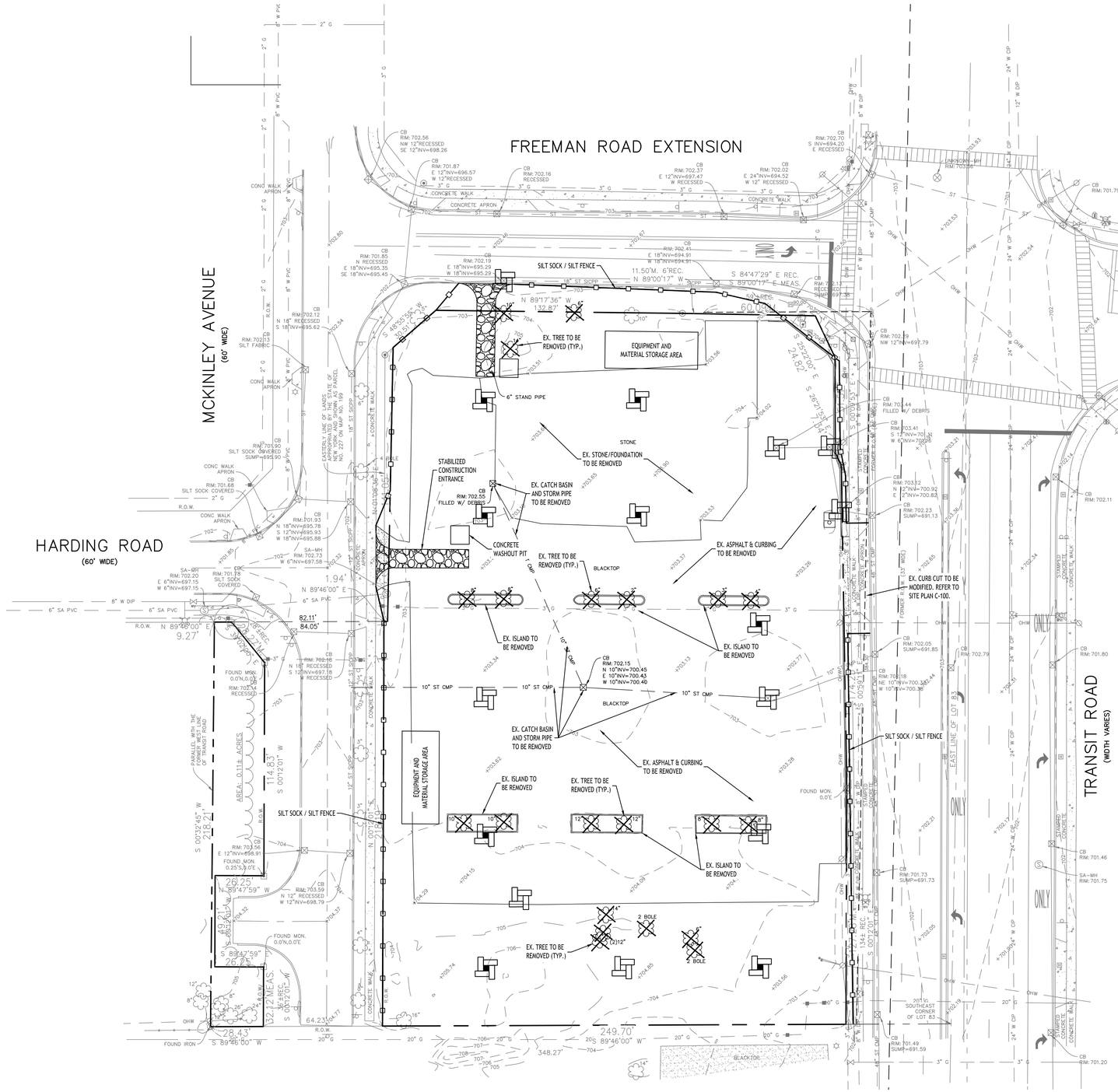
Project No. : 1522-0803A

NUSSBAUMER & CLARKE, INC. ENGINEERS AND SURVEYORS EST. 1933

NIAGARA FRONTIER LAND SURVEYORS 1960 Association Inc. MEMBER

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Demo & Erosion Control Plan

SCALE: 1"=30'

EROSION CONTROL NOTES

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

1. INSTALL TEMPORARY SILT FENCE BARRIERS AS DIRECTED BY THE OWNER AND AT ALL EXISTING STORMWATER CATCH BASINS WITHIN THE WORK AREA TO PREVENT SEDIMENT MIGRATION. ALL SILT FENCE BARRIERS SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS.
2. TOPSOIL SHALL BE STRIPPED AND HAULED TO 1120 BULLIS ROAD, ELMA, NY 14059 AND HAULED BACK TO SITE AS NEEDED.
3. ALL SILT FENCE 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 6" 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 FENCE AROUND THE BASE OF STOCKPILES.
11. THE PROFESSIONAL CERTIFYING COMPLIANCE TO NYSDEC PHASE II STORMWATER REGULATION REQUIREMENTS MUST INSPECT AT A MINIMUM WEEKLY AND SHALL PROVIDE THESE INSPECTION REPORT WITH A WRITTEN CERTIFICATION OF CONSTRUCTION COMPLIANCE TO THE TOWN OF AMHERST 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. DUE TO SOIL DISTURBANCE BEING GREATER THAN ONE ACRE, A NYSDEC SPDES PERMIT MUST BE OBTAINED BEFORE ANY ON-SITE DISTURBANCE IS MADE.

NOTES:

1. THE 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.
2. TEMPORARY SILT FENCE AND STRAW BALES TO BE INSTALLED AS DIRECTED BY THE OWNERS FIELD REPRESENTATIVE. MAINTAIN UNTIL VEGATATION IS ESTABLISHED AND PAVEMENT IS INSTALLED.
3. FOR THOSE STRUCTURES TO BE DEMOLISHED, ALL EXISTING UTILITY SERVICES SHALL BE ABANDONED IN ACCORDANCE WITH LOCAL REGULATIONS, ALL METERS SHALL BE RETURNED TO PROPER OWNERS.
4. THE CONTRACTOR SHALL INSTALL STABILIZED CONSTRUCTION ENTRANCES WHERE ACCESSING THE SITE FROM PAVED ROADWAYS.
5. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH NYS M.U.T.C.D. STANDARDS PRIOR TO STARTING WORK.

DEMOLITION & EROSION CONTROL LEGEND

- INSTALL SILT FENCE
- INSTALL STORM DRAINAGE INLET PROTECTION
- EXISTING LANDSCAPING TO BE REMOVED

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

Car Dealership
6766 Transit Road
Amherst, New York

REVISIONS:		
No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:
Demo & Erosion Control Plan

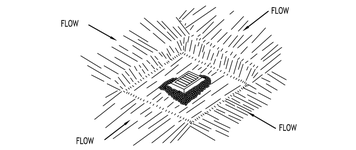
Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

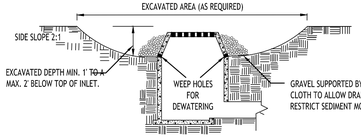
DRAWING NO.
C-001

Project No: 26-4120

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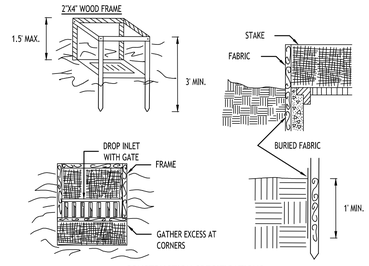
CONSTRUCTION SPECIFICATIONS

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

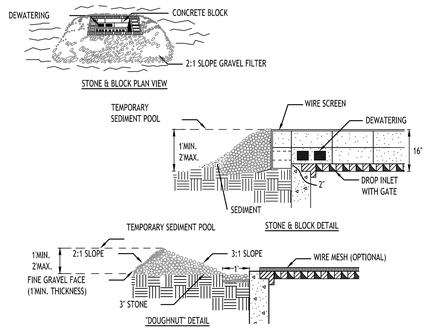
1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH 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.

MAXIMUN DRAINAGE AREA 1 ACRE

INLET PROTECTION DETAIL 2

NOT TO SCALE

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



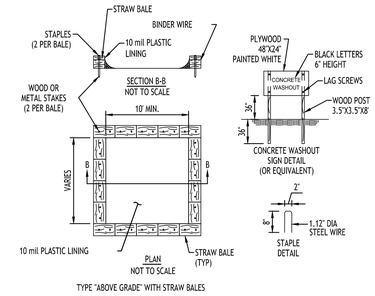
CONSTRUCTION SPECIFICATIONS

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

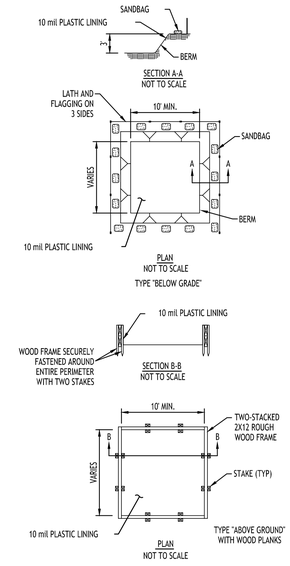
INLET PROTECTION DETAIL 3

NOT TO SCALE



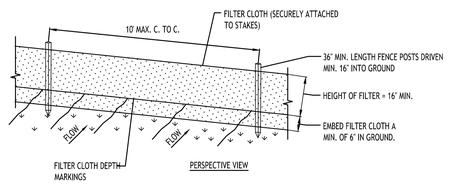
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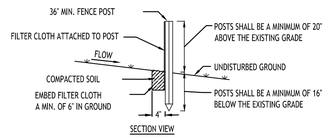
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS 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



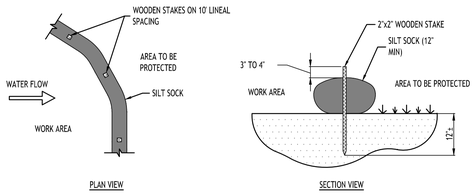


CONSTRUCTION SPECIFICATIONS

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



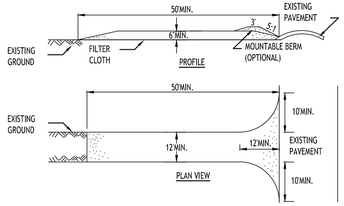
NOTES:

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 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.

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD
DESIGN
Buffalo | Utica | Greensboro

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date

STATE OF NEW YORK
CHRISTOPHER WOOD
LICENSED PROFESSIONAL ENGINEER
076394

DRAWING NAME:

Demo & Erosion Control Details

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

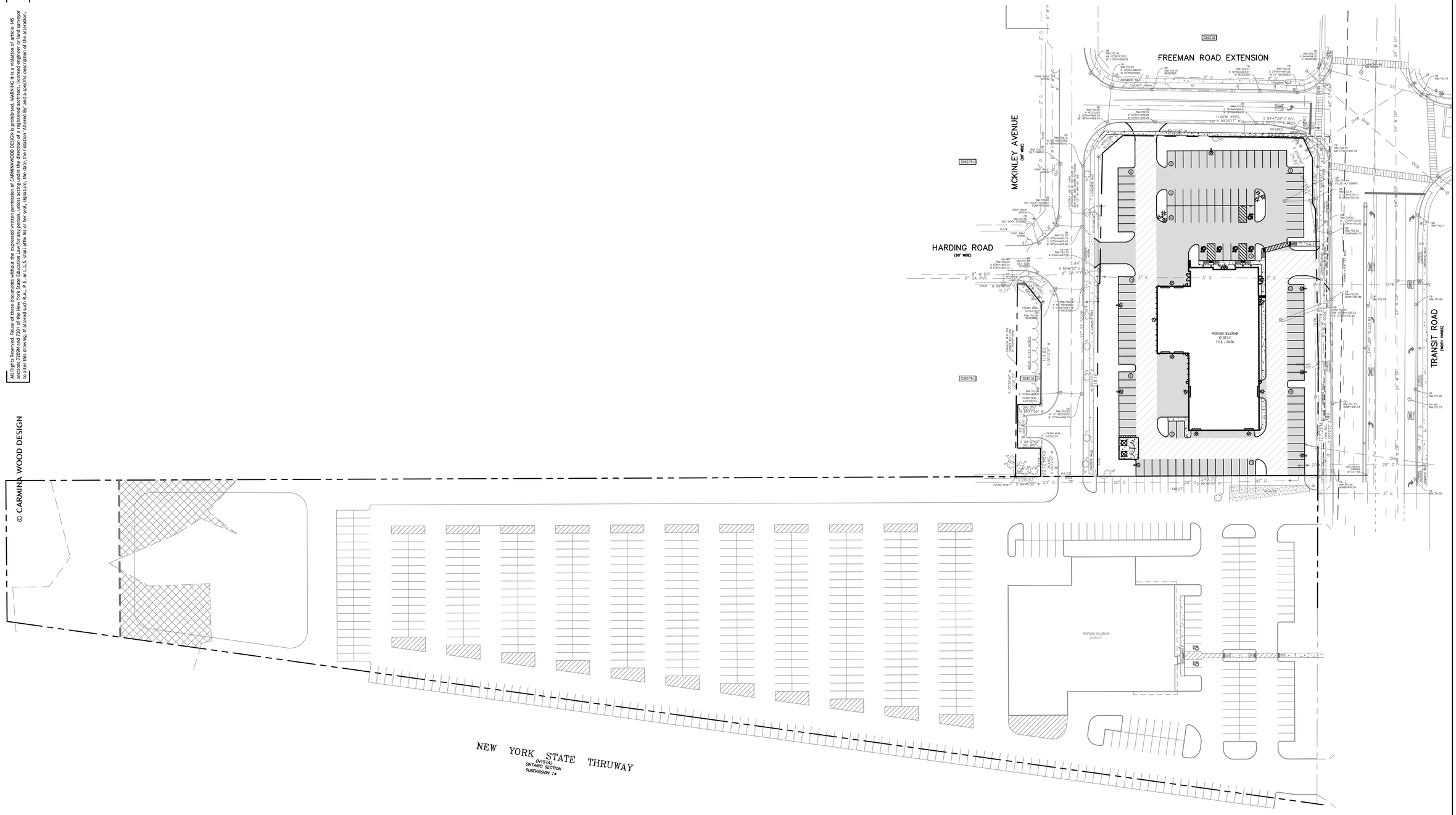
DRAWING NO.

C-002

Project No: 26-4120

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Overall Site Plan

SCALE: 1"=30'

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

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:
Overall Site Plan

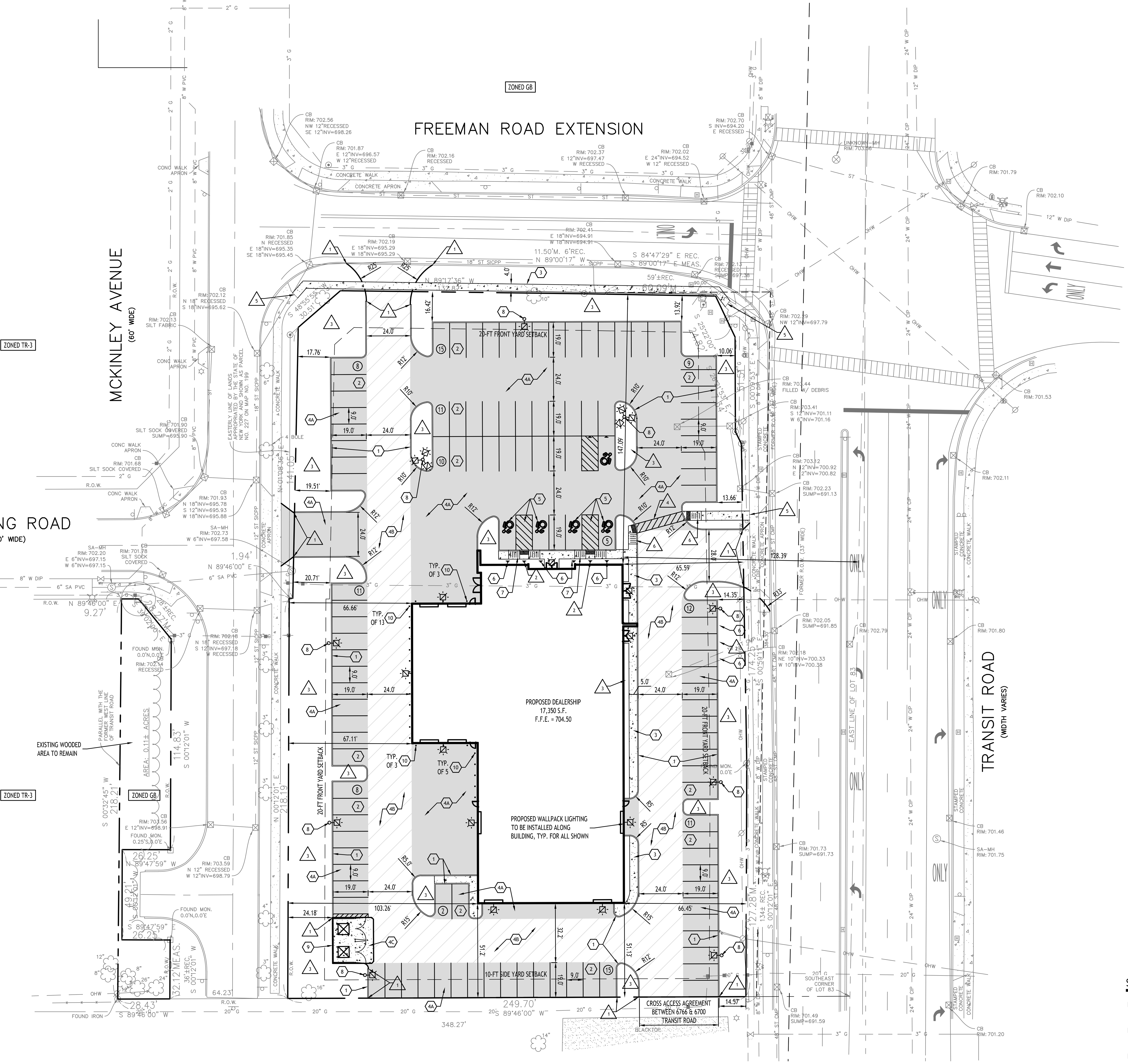
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C-100

Project No: 26-4120

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Site Plan

SCALE: 1"=30'

SITE DATA		
SITE AREA = 2.34 AC (2.16 AC TO BE DISTURBED)		
ZONED: GB - GENERAL BUSINESS DISTRICT		
BUILDING: 17,350 SF CAR DEALERSHIP		
SETBACKS - BUILDING	**REQUIRED**	**PROVIDED**
FRONT (BLDG. HT. < 35-FT)	20 FT	65.59 FT MIN.
FRONT (FROM C/L OF TRANSIT ROAD)	135 FT	128.39 FT *
SIDE (BLDG. HT. < 30-FT ABUTTING NON-RESIDENTIAL)	10 FT	51.0 FT
REAR (BLDG. HT. < 30-FT ABUTTING NON-RESIDENTIAL)	15 FT	N/A
SETBACKS - PARKING		
FRONT (BLDG. HT. < 35-FT)	10 FT	10.06 FT MIN.
SIDE (BLDG. HT. < 30-FT ABUTTING NON-RESIDENTIAL)	5 FT	0 FT *
REAR (BLDG. HT. < 30-FT ABUTTING NON-RESIDENTIAL)	5 FT	N/A
ABUTTING A RESIDENTIAL DISTRICT	25 FT	17.76 FT *
PARKING		
# OF SPACES - SEE CALCULATION BELOW	102	117
PARKING SPACE SIZE	9' x 19'	9' x 19'
MAX. BUILDING HEIGHT	65 FT	< 65 FT
LANDSCAPING		
INTERIOR PARKING AREA	2,494 SF (10%)	3,334 SF (13.4%)
*VARIANCE REQUIRED		

PARKING CALCULATION:

VEHICLE SALES:
REQ'D = 1 SPACE PER 200 SF + 1 SPACE PER EMPLOYEE

17,350 SF / 200 + 15 EMPLOYEES = 102 SPACES REQ'D

DETAIL LEGEND — SEE SITE DETAIL SHEET

- 1 TYPE "A" CONCRETE CURB
- 2 90° PARKING STALL
- 3 CONCRETE SIDEWALK
- 4A STANDARD DUTY ASPHALT
- 4B HEAVY DUTY ASPHALT
- 4C EXTERIOR CONCRETE SLAB ON GRADE
- 5 HANDICAPPED PAVEMENT MARKINGS
- 6 HANDICAPPED PARKING SIGN
- 7 HANDICAPPED PAVEMENT RAMP
- 8 LIGHT POLE FOUNDATION
- 9 DUMPSTER ENCLOSURE
- 10 PIPE BOLLARD - COORDINATE QUANTITY AND LOCATION W/ ARCHITECTURALS & OWNER

NOTE LEGEND

- 1 RUNOUT CURB IN 2' OR MATCH EXISTING CURB
- 2 INSTALL "NO PARKING" SIGN, M.U.T.C.D. SIGN NO. P1-1C
- 3 LANDSCAPED AREA - SEE LANDSCAPE PLAN, IF NO PLANTINGS, INSTALL TOPSOIL & SEED
- 4 1' WIDE WHITE PAVEMENT STRIPES @ 1' SPACING BETWEEN 4" WIDE WHITE CROSSWALK LINES
- 5 MATCH EX. SIDEWALK
- 6 RAMP SIDEWALK @ 1:12 MAX. & INSTALL TACTILE WARNING MAT

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. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS NECESSARY TO PERFORM THE WORK.
9. ALL REASONABLE MEASURES SHALL BE TAKEN TO PROTECT EXISTING TREES WHICH ARE TO BE PRESERVED FROM ALL POSSIBLE TYPES OF ROOT, TRUNK, AND LIMB DAMAGE; INCLUDING BUT NOT LIMITED TO, RETAINING WALLS WHICH PREVENT FILLING ON TOP OF ROOTS OR EXCAVATING TREE ROOTS.

NOTES:

1. ALL RADII SHALL BE 3'-0" UNLESS OTHERWISE NOTED.
2. ALL DISTURBED AREAS: SHALL HAVE 4" MIN. OF TOPSOIL & 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. FIRE DEPARTMENT KNOX KEY BOX IS TO BE PROVIDED FOR ACCESS TO BUILDING KEYS

SITE LEGEND

- PROPERTY LINE
- PROPOSED CONCRETE CURB
- PROPOSED SIDEWALK / CONCRETE PAD
- NUMBER OF PARKING SPACES (27)
- PROPOSED SIGN
- PROPOSED STANDARD DUTY ASPHALT PAVEMENT
- PROPOSED HEAVY DUTY ASPHALT PAVEMENT

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

30' — 30 0 30 60Ft.

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

DRAWING NAME:
Site Plan

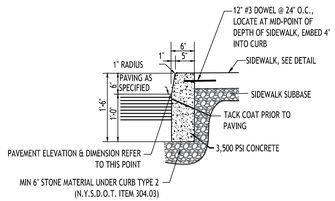
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Scale: As Noted

DRAWING NO.
C-101

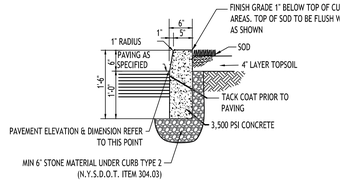
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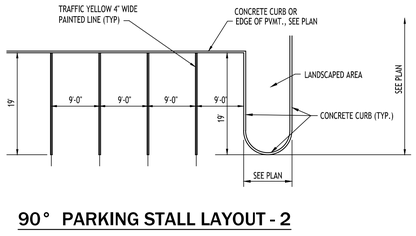
ABUTTING SIDEWALK



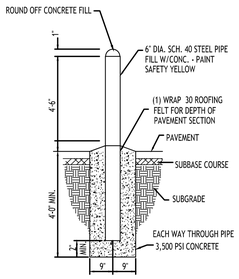
ABUTTING LANDSCAPE/GRASS

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.

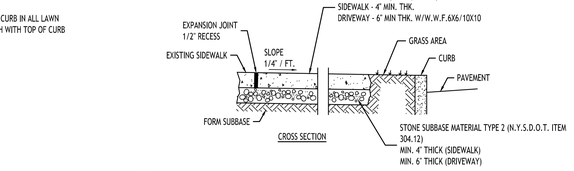
TYPE "A" CONCRETE CURB - 1



90° PARKING STALL LAYOUT - 2

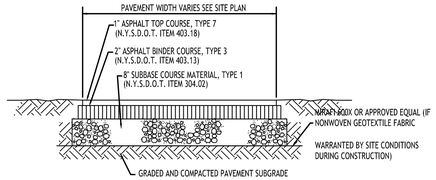


PIPE BOLLARD - 10



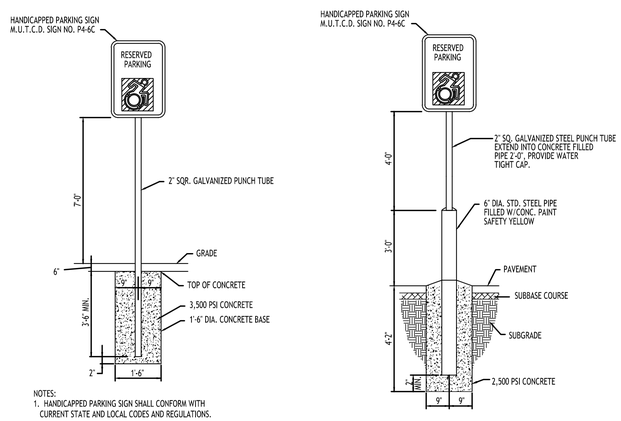
NOTES:
1. CONTROL JOINTS TO BE AT 5'-0" O.C., BOTH WAYS WHERE APPLICABLE. SEE SPECIFICATIONS FOR FURTHER JOINT REQUIREMENTS NYSDOT 702-0700.
2. CONCRETE SIDEWALK AND DRIVEWAY MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 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 - 4A



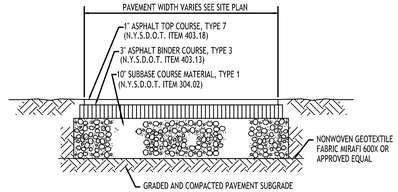
NOTES:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

HANDICAP PARKING SIGNS - 6

INSTALLED IN GRASS/LANDSCAPED AREA

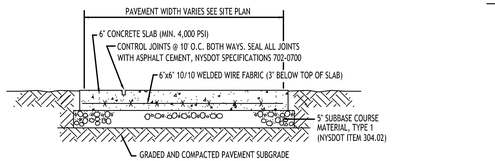
HANDICAPPED PARKING SIGN - 6

INSTALLED IN PAVEMENT



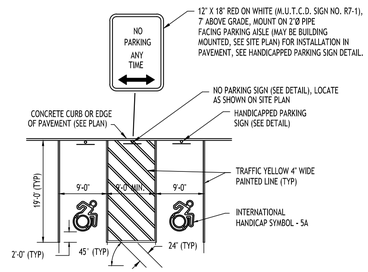
NOTE: CONSTRUCTION METHODS FOR ASPHALT PAVEMENT SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 401-3. WITH SUBBASE CONSTRUCTION METHODS CONFORMING TO NYSDOT STANDARD SPECIFICATION 304-3.

HEAVY DUTY ASPHALT SECTION - 4B

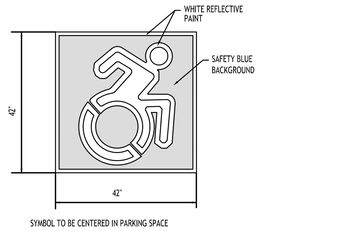


NOTE: CONCRETE PAVEMENT MATERIAL SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 501 AND CONSTRUCTION METHODS SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION 502-3.

EXTERIOR CONCRETE SLAB-ON-GRADE SECTION - 4C

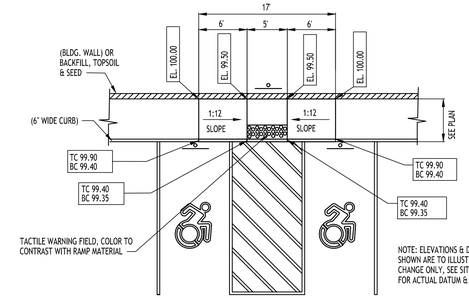


HANDICAPPED PAVEMENT MARKINGS & SIGNAGE - 5

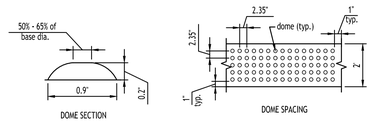


SYMBOL TO BE CENTERED IN PARKING SPACE

INTERNATIONAL HANDICAP SYMBOL - 5A

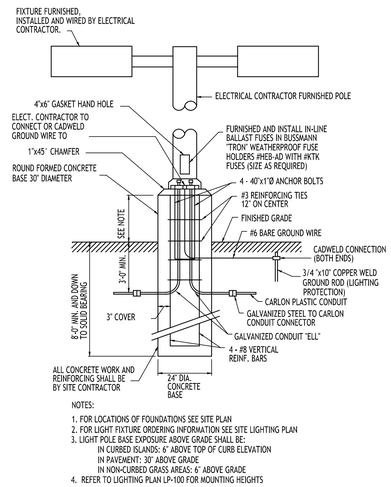


NOTE: ELEVATIONS & DIMENSIONS SHOWN ARE TO ILLUSTRATE GRADE CHANGE ONLY, SEE SITE & GRADING PLAN FOR ACTUAL DATUM & DIMENSIONS



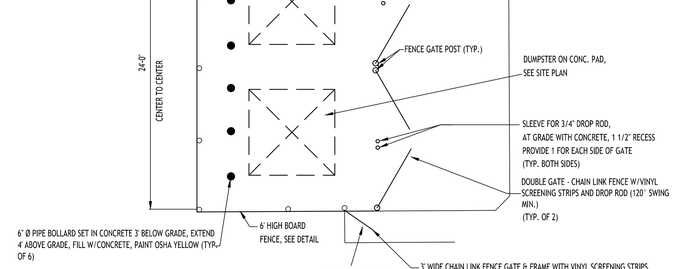
NOTE: TACTILE WARNING DEVICES SHALL BE PER ICC/ANSI A117.1-1998, SECTION 705.3.1.2 OR CURRENT UPDATE

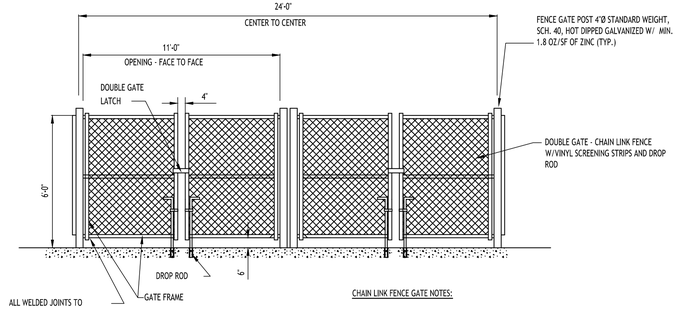
HANDICAPPED PAVEMENT RAMP - 7



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: 30" ABOVE GRADE
   IN NON-CURBED GRASS AREAS: 6" ABOVE GRADE
4. REFER TO LIGHTING PLAN LP-100 FOR MOUNTING HEIGHTS

LIGHT POLE FOUNDATION - 8

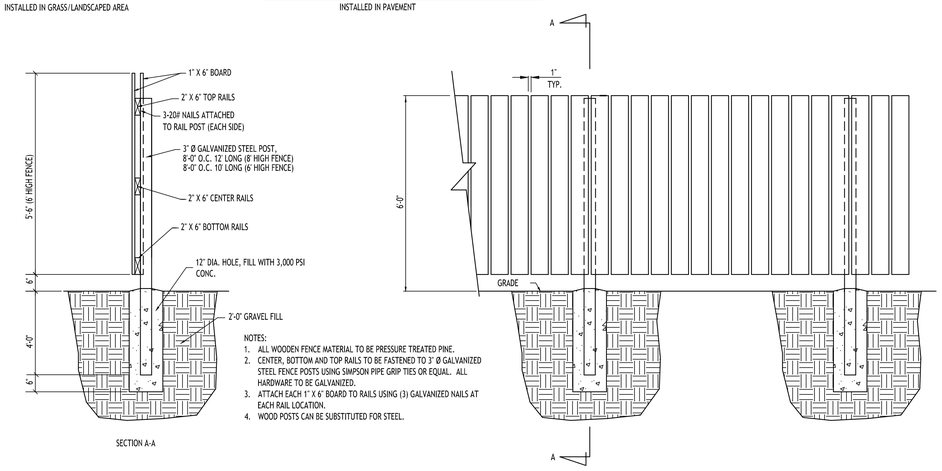




FRONT VIEW

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.

DUMPSTER ENCLOSURE - 9



NOTES:
1. ALL WOODEN FENCE MATERIAL TO BE PRESSURE TREATED PINE.
2. CENTER, BOTTOM AND TOP RAILS TO BE FASTENED TO 3" Ø GALVANIZED STEEL FENCE POSTS USING SIMPSON PIPE GRIP TIES OR EQUAL. ALL HARDWARE TO BE GALVANIZED.
3. ATTACH EACH 1" X 6" BOARD TO RAILS USING (3) GALVANIZED NAILS AT EACH RAIL LOCATION.
4. WOOD POSTS CAN BE SUBSTITUTED FOR STEEL.

BOARD ON BOARD FENCE - FOR DUMPSTER ENCLOSURE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership
6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

NEW YORK STATE LICENSED PROFESSIONAL ENGINEER
R. CHRISTOPHER WOOD
076394

DRAWING NAME:
Site Details

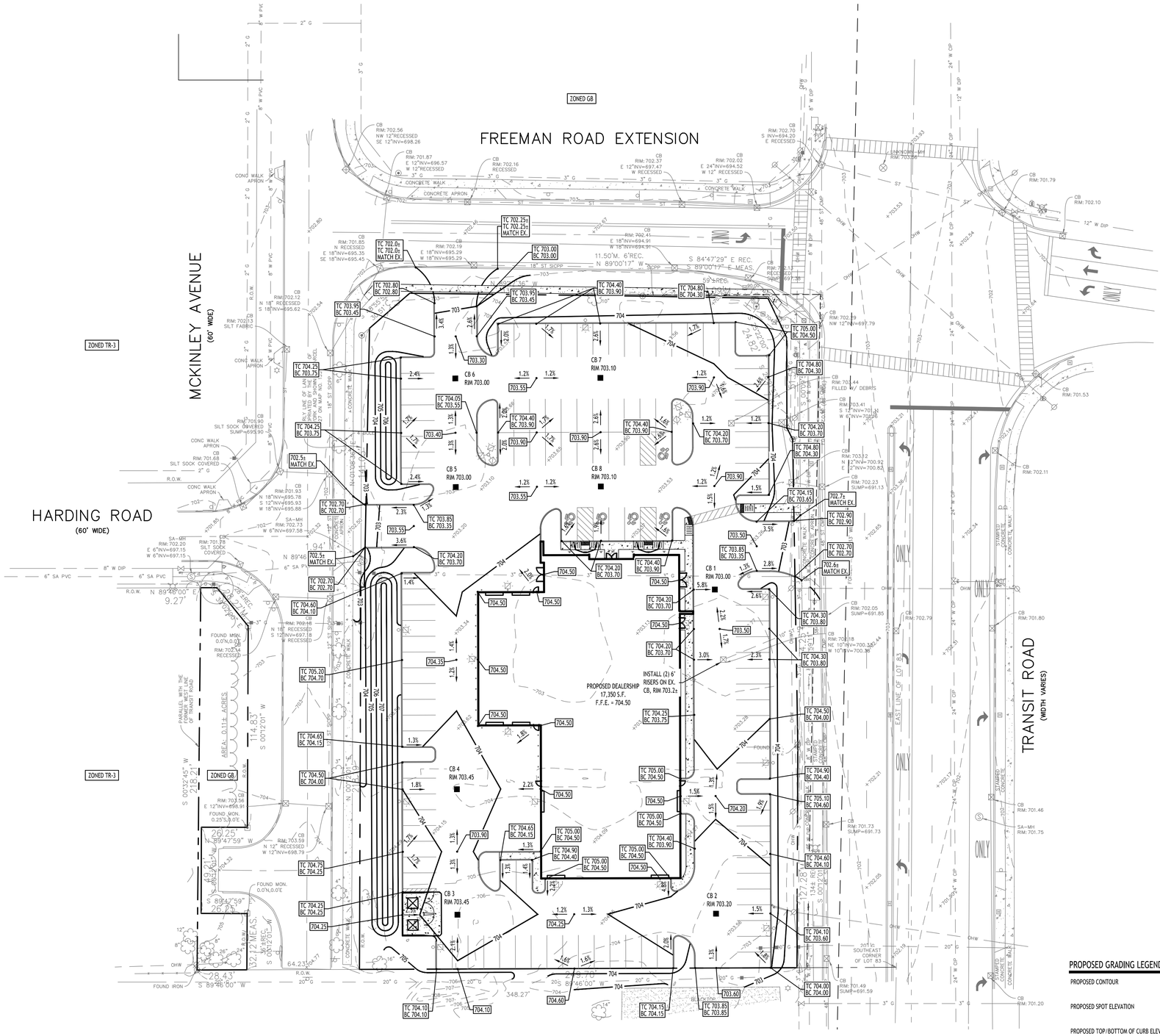
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DRAWING NO.
C-102

Project No: 26-4120

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Grading Plan

SCALE: 1"=30'

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CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership

6766 Transit Road
Amherst, New York

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No.	Description	Date
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STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Grading Plan

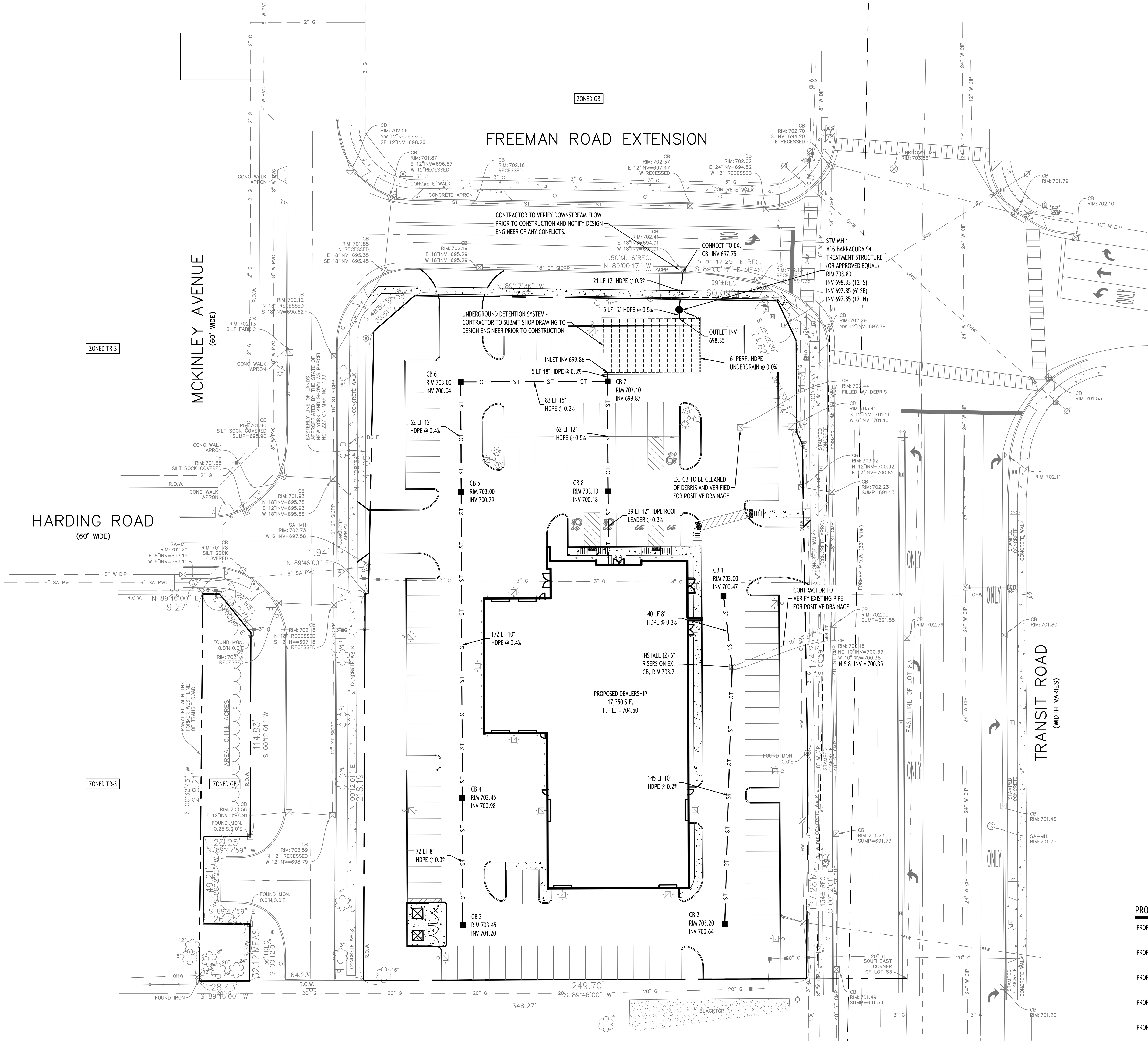
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DRAWING NO.
C-200

Project No: 26-4120

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N **Drainage Plan**

SCALE: 1"=30'

UNDERGROUND DETENTION SYSTEM:
ADS_STORMTECH SC-800 +CAP (ADS STORMTECH® SC-800 WITH CAP LENGTH)

51.0" WIDE + 3.0" SPACING = 54.0" C-C ROW SPACING

4 CHAMBERS/ROW x 7.12' LONG + 0.88' CAP LENGTH X 2 = 72.93' ROW LENGTH +12.0" END STONE x 2 = 32.23' BASE LENGTH

12 ROWS x 51.0" WIDE + 3.0" SPACING x 8 + 12.0" SIDE STONE x 2 = 55.75' BASE WIDTH

6.0" BASE + 33.0" CHAMBER HEIGHT + 6.0" COVER = 3.75' FIELD HEIGHT

48 CHAMBERS x 50.6 CF + 3.4 CF CAP VOLUME x 2 x 9 ROWS = 2,510.5 CF CHAMBER STORAGE

6,738.8 CF FIELD - 2,510.5 CF CHAMBERS = 4,228.3 CF STONE x 40.0% VOIDS = 1,691.3 CF STONE STORAGE

CHAMBER STORAGE + STONE STORAGE = 4,201.8 CF = 0.096 AF
OVERALL STORAGE EFFICIENCY = 62.4%
OVERALL SYSTEM SIZE = 32.23' x 55.75' x 3.75'

48 CHAMBERS
249.6 CY FIELD
156.6 CY STONE

UNDERGROUND DETENTION SUMMARY

(48) ADS STORMTECH SC-800 CHAMBERS
TOP OF STONE ELEV = 701.60
TOP OF CHAMBER ELEV = 701.10
BOTTOM OF CHAMBER ELEV = 698.35
BOTTOM OF STONE ELEV = 697.85
TOTAL STORAGE = 4,201.8 CF

STORMWATER RUNOFF SUMMARY

TO DETENTION:

EVENT	PROP. RUNOFF (CFS)	ELEVATION (FT)	STORAGE (CF)
1-YEAR	2.22	699.39	1,876
10-YEAR	3.95	700.01	2,711
25-YEAR	4.70	700.40	3,176
100-YEAR	6.25	701.58	4,186

TOTAL SITE:

EVENT	EX. RUNOFF (CFS)	PROP. RUNOFF (CFS)
1-YEAR	4.09	3.04
10-YEAR	7.88	5.70
25-YEAR	9.96	7.07
100-YEAR	14.05	9.55

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.

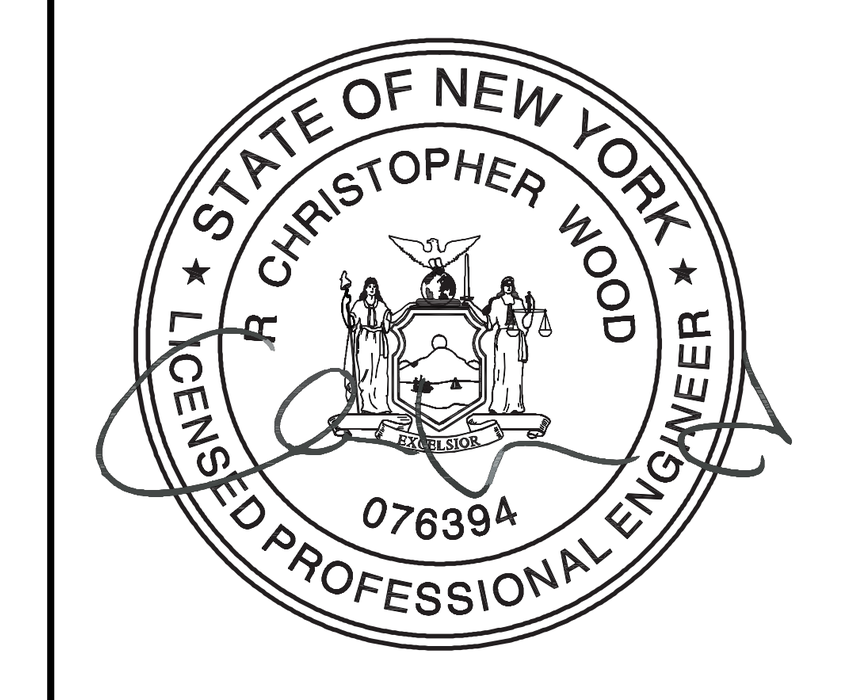
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REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26



DRAWING NAME:
Drainage Plan

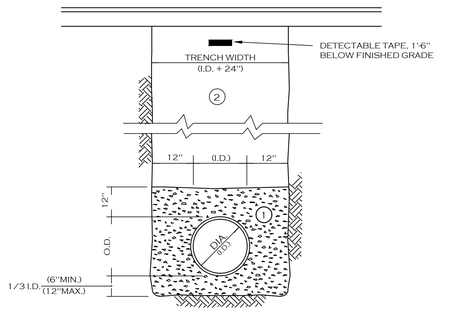
Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO.
C-300

Project No: 26-4120

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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)

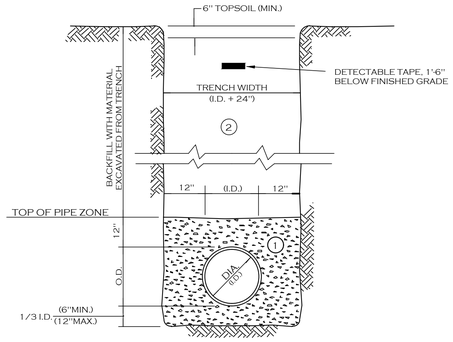
(1) NO. 1 CRUSHED STONE OR CRUSHED GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE MATERIAL SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN ONE INCH AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH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



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

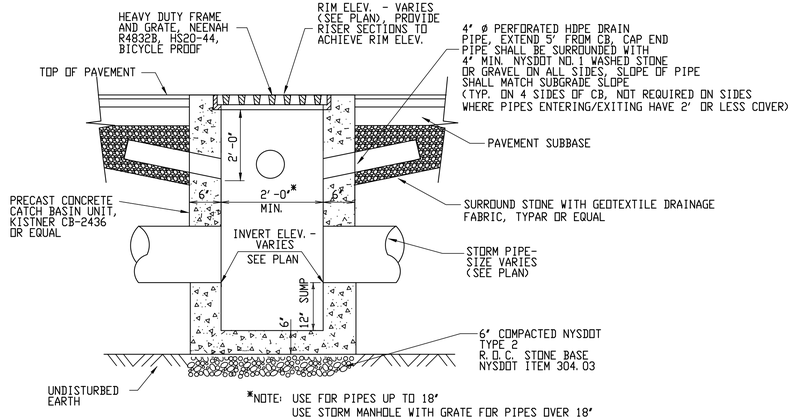
PIPE BEDDING MATERIAL (NYSDOT 1985 EDITION)

(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



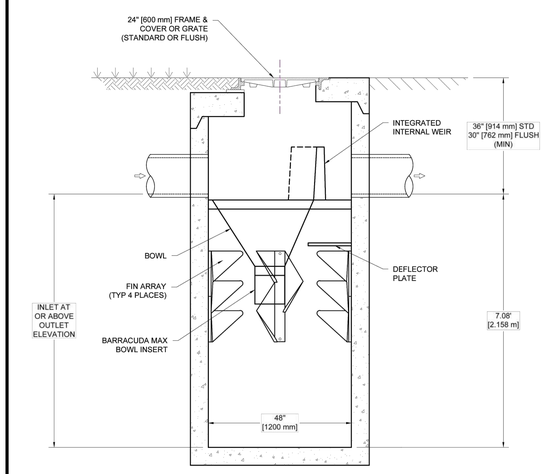
TYPICAL PRECAST CATCH BASIN

PRODUCT SPECIFICATIONS

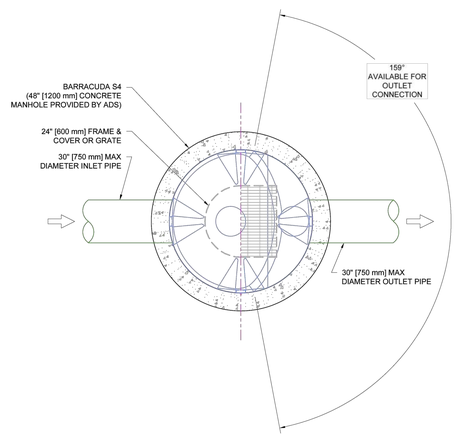
- THE STORMWATER TREATMENT UNIT SHALL BE AN INLINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW. IF PEAK FLOW RATES EXCEED MAXIMUM HYDRAULIC RATE, THE UNIT SHALL BE INSTALLED OFFLINE.
- THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. SAID REMOVAL SHALL BE BASED ON FULL-SCALE THIRD PARTY TESTING USING OK-110 MEDIA GRADATION OR EQUIVALENT AND 300 mg/L INFLUENT CONCENTRATION. SAID FULL SCALE TESTING SHALL HAVE INCLUDED SEDIMENT CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.
  -OR -
  THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH d_{50}=75 MICRON AND 200 MG/L INFLUENT CONCENTRATION.
  -OR -
  THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS PER PREVIOUS 2013 NJDEP/NJCAT HDS PROTOCOL.

BARRACUDA MAX S4	CFS	L/s
NJDEP (50% Removal)	1.52	43.0
OK-110 (80% Removal)	1.52	43.0

WQ_V TO BE TREATED = 4,459 CF



SECTION VIEW A-A
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

NOTES:
- ENGINEER / CONTRACTOR TO CONFIRM PIPE MATERIALS AND APPLICABLE ADAPTERS
- CONTRACTOR IS RESPONSIBLE FOR MATERIAL AND LABOR TO BRING CASTINGS TO FINISHED GRADE
- CONTRACTOR TO MEASURE HEIGHT OF STRUCTURE TO ENSURE THAT DEPTH OF EXCAVATION IS CORRECT.
- UNIT SHALL CONFORM TO HS20-44 LOAD RATINGS.

BARRACUDA MAX S4 CONCRETE MANHOLE STANDARD DETAIL
DATE: 09/06/24 DRAWING #: 531-410 DRAWN: JLM CHECKED: SMW

No.	DESCRIPTION	DRAWN	DATE
1	LDI LEADER	AT	04/01/25

Barracuda Max
Stormwater Separator

ADS
4640 TRUEMAN BLVD
HILLIARD, OH 43026

THE DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS FOR REVIEW PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO REVIEW AND APPROVE THE DRAWING PRIOR TO RELEASE FOR CONSTRUCTION. ADS ASSUMES NO RESPONSIBILITY FOR ERRORS OR OMISSIONS RESULTING FROM THE USE OF INFORMATION CONTAINED IN THIS DRAWING WITHOUT PRIOR APPROVAL. FOR FINAL REVIEW PRIOR TO RELEASE FOR CONSTRUCTION, IT IS THE ULTIMATE RESPONSIBILITY OF THE ENGINEER OF RECORD TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LOCAL, REGULATIONAL AND PROJECT REQUIREMENTS.

SHEET 1 OF 1

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REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:
Drainage Details

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO.
C-301

Project No: 26-4120

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Advanced Drainage Systems, Inc.

ADS SiteAssist® FOR STORMTECH INSTALLATION INSTRUCTIONS VISIT OUR WEBSITE

SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12, 12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (+1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN. EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

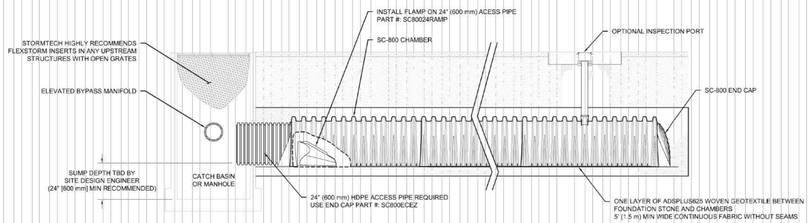
1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM 3" (75 mm) SPACING BETWEEN THE CHAMBER ROWS.
7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.
8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH-IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH INSTALLATION GUIDE SC-310/DC-780/SC-800".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

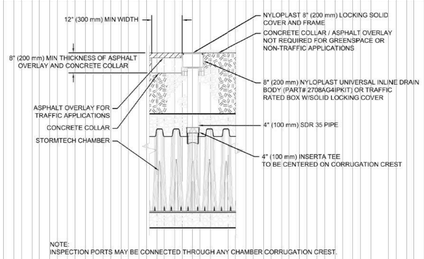
USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



SC-800 ISOLATOR ROW PLUS DETAIL
NTS

3 SC-800 ISOLATOR ROW PLUS DETAIL



4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)
NTS

4 4" PVC INSPECTION PORT DETAIL (SC SERIES CHAMBER)

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

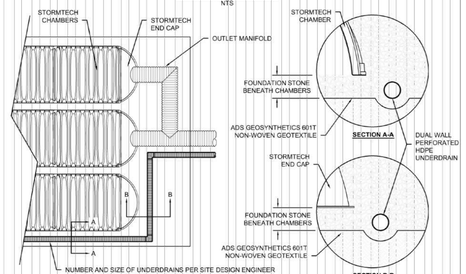
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

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

NOTES

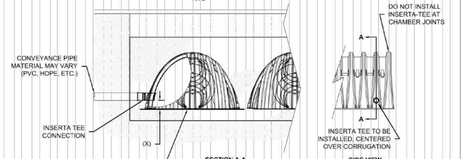
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

UNDERDRAIN DETAIL
NTS



5 UNDERDRAIN DETAIL

INSERTA TEE DETAIL
NTS



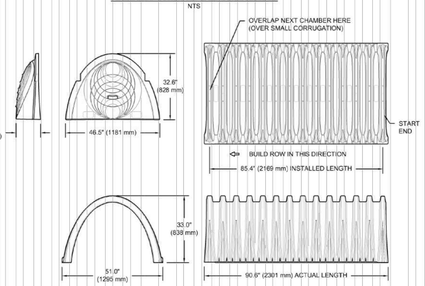
CHAMBER	MAX DIAMETER OF INSERTA TEE	HEIGHT FROM BASE OF CHAMBER (X)
SC-310	6" (150 mm)	4" (100 mm)
SC-800	10" (250 mm)	4" (100 mm)
DC-780	10" (250 mm)	4" (100 mm)
MC-3500	12" (300 mm)	6" (150 mm)
MC-4500	12" (300 mm)	8" (200 mm)
MC-7200	12" (300 mm)	8" (200 mm)

INSERTA TEE FITTINGS AVAILABLES FOR SDR 26, SDR 35, SCH 40 IPS GASKETED & SOLVENT WELD, N-12, HP STORM, C-900 OR DUCTILE IRON

NOTES:
- PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.
- CONTACT ADS ENGINEERING SERVICES IF INSERTA TEE INLET MUST BE RAISED AS NOT ALL INVERTS ARE POSSIBLE.

6 INSERTA-TEE SIDE INLET DETAIL

SC-800 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 33.0" X 85.4"	(1295 mm X 838 mm X 2169 mm)
CHAMBER STORAGE	50.5 CUBIC FEET	(1.43 m³)
MINIMUM INSTALLED STORAGE*	76.4 CUBIC FEET	(2.22 m³)
WEIGHT	81.9 lbs.	(37.1 kg)

NOMINAL END CAP SPECIFICATIONS

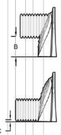
SIZE (W X H X INSTALLED LENGTH)	46.5" X 32.6" X 10.5"	(1181 mm X 828 mm X 267 mm)
END CAP STORAGE	3.4 CUBIC FEET	(0.09 m³)
MINIMUM INSTALLED STORAGE**	14.7 CUBIC FEET	(0.42 m³)
WEIGHT	15.7 lbs	(7.1 kg)

* ASSUMES 6" (150 mm) STONE ABOVE AND BELOW CHAMBER, 3" (75 mm) BETWEEN CHAMBERS
** ASSUMES 6" (150 mm) STONE ABOVE AND BELOW END CAPS, 3" (75 mm) BETWEEN ROWS, 12" (300 mm) BEYOND END CAPS

PRE-CORED HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "BPC"
PRE-CORED HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "TPC"

PART #	STUB	B	C
SC800EPE06TPC	6" (150 mm)	21.4" (544 mm)	---
SC800EPE06BPC		---	0.9" (23 mm)
SC800EPE08TPC	8" (200 mm)	19.2" (488 mm)	---
SC800EPE08BPC		---	1.0" (25 mm)
SC800EPE10TPC	10" (250 mm)	17.0" (432 mm)	---
SC800EPE10BPC		---	1.2" (30 mm)
SC800EPE12TPC	12" (300 mm)	14.4" (366 mm)	---
SC800EPE12BPC		---	1.6" (41 mm)
SC800EPE15TPC	15" (375 mm)	11.3" (287 mm)	---
SC800EPE15BPC		---	1.7" (43 mm)
SC800EPE18TPC	18" (450 mm)	8.0" (203 mm)	---
SC800EPE18BPC		---	2.0" (51 mm)
SC800ECEZ	24" (600 mm)	---	2.3" (58 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

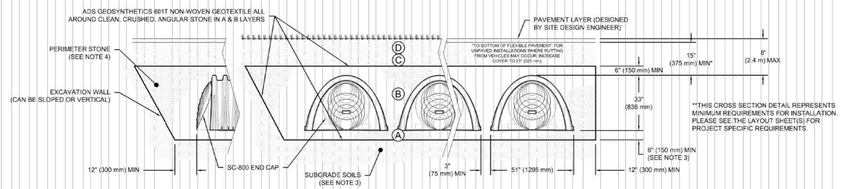


2 SC-800 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS: CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[4]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[4]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE: A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-800 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2" (50 mm).
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 700 LBS/FT/%, AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 SC-800 CROSS SECTION DETAIL

DRAWN: SMW	DATE: 08/05/2025
REVIEWED: JLM	PROJECT NO: 721-880
REV:	NOT TO SCALE

SC-800 STANDARD DETAILS

StormTech® Chamber System

4640 TRUEMAN BLVD HILLIARD, OH 43026

ADS Advanced Drainage Systems, Inc.

SHEET 1

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON REFERENCED STANDARDS. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. UNLESS THE PLANS ARE SIGNED AND SEALED BY THE SITE DESIGN ENGINEER, ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

TOWN OF AMHERST APPROVAL BOX:

CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership
6766 Transit Road
Amherst, New York

REVISIONS: No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:
Underground Detention Details

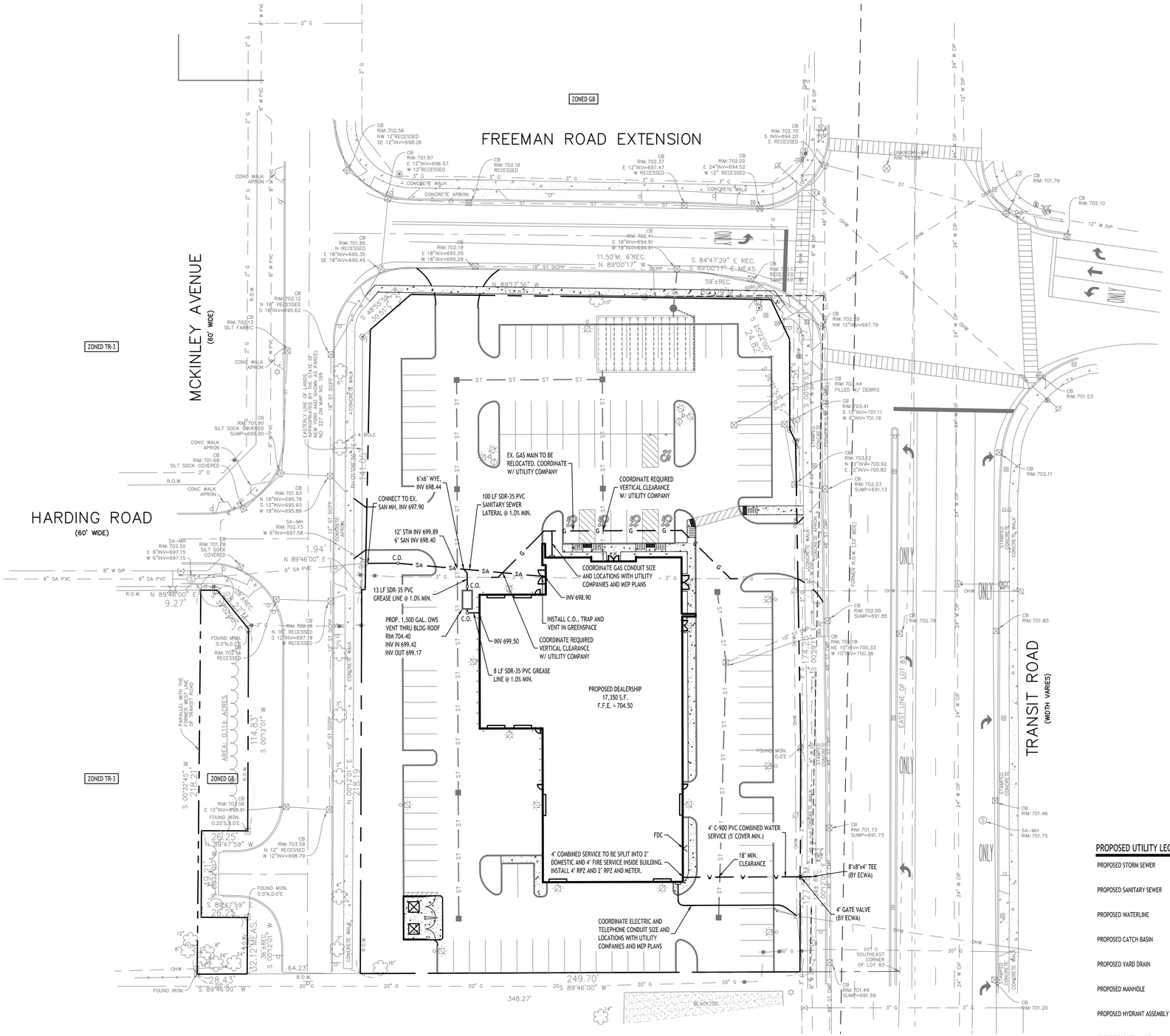
Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO.
C-302

Project No: 26-4120

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N

Utility Plan

SCALE: 1"=30'

NOTES:

1. ALL SANITARY SEWER CONSTRUCTION SHALL CONFORM TO TOWN OF AMHERST SPECIFICATIONS AND DETAILS, AND ERIE COUNTY DEPARTMENT OF HEALTH RULES AND REGULATIONS.
2. PRIOR STARTING ANY WORK ASSOCIATED WITH OR NEAR EXISTING SANITARY MANHOLES, THE CONTRACTOR SHALL MEET WITH THE TOWN OF AMHERST SEWER DIVISION TO DISCUSS AND AGREE TO THE WORK.
3. FILL SHALL BE PLACED AND SATISFACTORILY COMPACTED PRIOR TO INSTALLATION OF UTILITIES, AND MUST BE APPROVED BY THE SUPERVISING PROJECT ENGINEER.
4. ALL OTHER REQUIRED PERMITS BY THE STATE OF NEW YORK, COUNTY OF ERIE AND TOWN OF AMHERST ARE THE RESPONSIBILITY OF THE CONTRACTOR/DEVELOPER.

UTILITY NOTES:

1. FOR ALL SANITARY SEWERS, INSTALL SELECT FILL IN PAVED AREAS, EXTEND 5' MIN. BEYOND PAVEMENT LIMITS
2. BUILDINGS TO HAVE A 6' HOUSE TRAP, VENT AND CLEANOUT INSTALLED AT ENTRANCE POINT. INVERT ELEVATION TO BE 5' MIN. BELOW F.F.E. OF THE BUILDING. PIPE TO BE 6' SDR-35 PVC @ 2.0% MIN WITH MIN 4' OF COVER. ADD ADDITIONAL CLEANOUTS @ 90' MAX. SPACING FOR 6' LATERALS OVER 90' IN LENGTH.
3. COORDINATE GAS & ELEC. METER BANK LOCATIONS ON BUILDINGS WITH M.E.P. PLANS & UTILITY CO.'S.
4. COORDINATE LOCATION OF CTV & TELEPHONE SERVICE TO BUILDINGS WITH M.E.P. PLANS AND UTILITY CO.'S.
5. ANY EXISTING UTILITIES WHICH ARE TO BE ABANDONED AND FALL UNDER PAVEMENT OR BUILDINGS SHALL BE REMOVED VS. BEING ABANDONED UNLESS THOSE UTILITIES ARE FILLED WITH FLOWABLE FILL.
6. EXISTING GAS SERVICES TO REMAIN UNLESS OTHERWISE NOTED. ANY PORTIONS TO BE RELOCATED SHALL BE COORDINATED WITH NATIONAL FUEL GAS.
7. ALL UNDERGROUND TELEPHONE SERVICES SHALL REMAIN AND BE PROTECTED DURING CONSTRUCTION.
8. A MINIMUM OF 10 FEET HORIZONTAL AND 18 INCHES OF VERTICAL SEPARATION MUST BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER SERVICES.
9. ERIE COUNTY WATER AUTHORITY (ECWA) IS TO BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO STARTING THE CONNECTION TO THE NEW WATER SERVICE.
10. SELECT BACKFILL IS REQUIRED FOR ALL UTILITIES (GAS, WATER, STORM, SANITARY) THAT CROSS THROUGH PAVEMENT AREAS.

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.

TOWN OF AMHERST APPROVAL BOX:

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Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:

Utility Plan

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

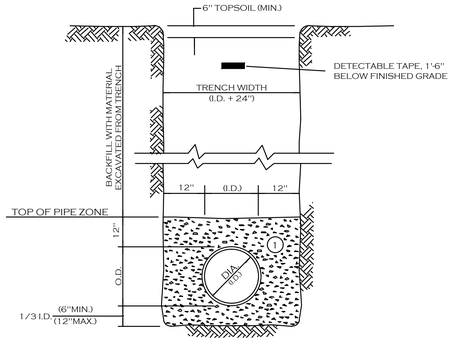
DRAWING NO.

C-400

Project No: 26-4120

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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)

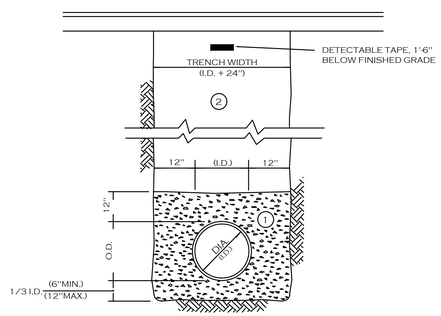
(1) NO.1 CRUSHED STONE WITH A GRADATION CONFORMING WITH NYSDOT SECTION 703-02. THE CRUSHED STONE SHALL BE WELL GRADED WITH NO PARTICLES LARGER THAN 1" AND HAVING A MAXIMUM GRADATION MEETING THE LIMITS DESCRIBED IN THE SPECIFICATIONS. THE BEDDING SHALL BE COMPACTED IN 6" LIFTS WITH EQUIPMENT ACCEPTABLE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

SELECT MATERIAL BACKFILL (NYSDOT LATEST EDITION)

(2) NO.2 RUN OF CRUSHER STONE OR NO.2 RUN OF CRUSHER GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 4 AND NYSDOT SECTION 703-02. (COMPACTED IN 6"LIFTS TO 90% DENSITY)

NOTE: SLAG SHALL NOT BE ALLOWED FOR MATERIALS (1) AND (2)

UTILITY TRENCH SECTION IN UNPAVED AREAS



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.

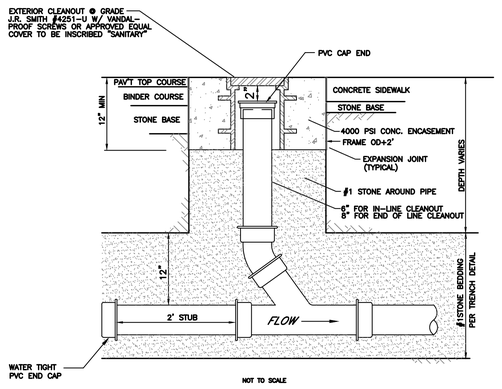
SELECT MATERIAL BACKFILL (NYSDOT LATEST EDITION)

(2) NO.2 RUN OF CRUSHER STONE OR NO.2 RUN OF CRUSHER GRAVEL WITH A GRADATION CONFORMING WITH NYSDOT SECTION 304-2.02 TYPE 4 AND NYSDOT SECTION 703-02. (COMPACTED IN 6"LIFTS TO 90% DENSITY)

NOTE: SLAG SHALL NOT BE ALLOWED FOR MATERIALS (1) AND (2)

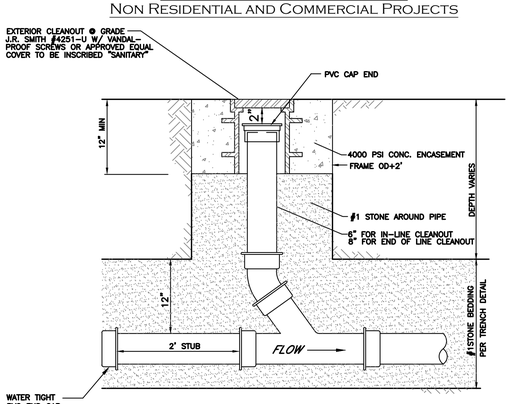
UTILITY TRENCH SECTION IN PAVED AREAS

CLEANOUT IN PAVEMENT/SIDEWALKS NON RESIDENTIAL AND COMMERCIAL PROJECTS



NOT TO SCALE

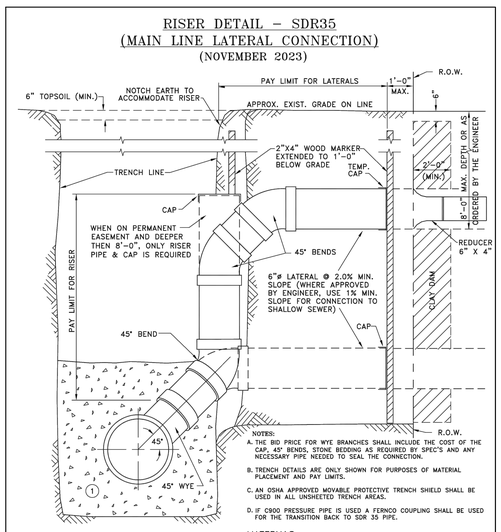
CLEANOUT IN FIELD/LAWN AREAS NON RESIDENTIAL AND COMMERCIAL PROJECTS



NOT TO SCALE

RISER DETAIL - SDR35 (MAIN LINE LATERAL CONNECTION)

(NOVEMBER 2023)



NOTES:

A. THE BID PRICE FOR WYE BRANCHES SHALL INCLUDE THE COST OF THE CAP, 45° BENDS, 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.

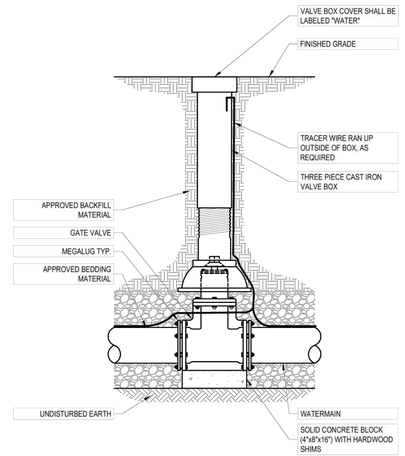
D. IF C900 PRESSURE PIPE IS USED A FERNCO COUPLING SHALL BE USED FOR THE TRANSITION BACK TO SDR 35 PIPE.

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. 9 1/97	ADDED 1/8 BELL & SPIGOT LONG SWEEP BEND	STD.DETAIL 27
	Rev. 8 12/01	ADDED NOTE B REGARDING LOCATION OF VENTS AND CLEAN OUTS	
	Rev. 4 5/02	CHANGED LONG SWEEP TO NORMAL 45° ADDED CAPS & CORRECTED PAY LIMITS	
	File: D-27	Date: 3/1/91	



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

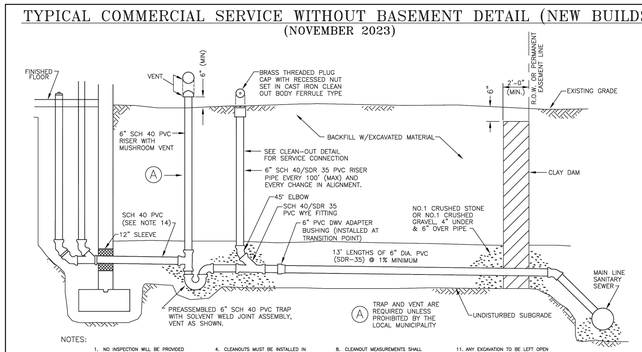
SCALE: NTS

Revision: 2024-01

Detail: SD-12

TYPICAL COMMERCIAL SERVICE WITHOUT BASEMENT DETAIL (NEW BUILDS)

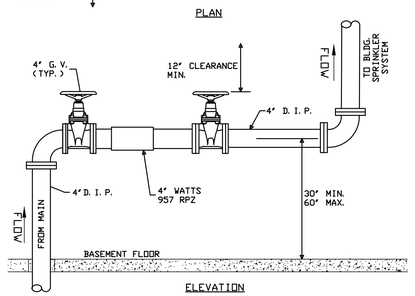
(NOVEMBER 2023)



NOTES:

1. NO INSPECTION WILL BE PROVIDED UNLESS A FINAL INSPECTION IS REQUIRE 48 HOURS 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 PAVED AREAS, AND IN UNPAVED DRIVEWAY AREAS, IMMEDIATELY BEHIND THE CURB OR EDGE OF PAVEMENT AND THE SIDEWALK.
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 BE TAKEN FROM THE MAIN LINE SEWER FOR HORIZONTAL LATERALS AND FROM THE 6" CLEANOUT FOR FAR SIDE CONNECTIONS. A CLEANOUT MAY BE REQUIRED FOR ANY ABRUPT CHANGES IN LATERAL DIRECTION FLOW.
9. A 6" CLEANOUT IS REQUIRED AT R.O.W. OR PERMANENT EASEMENT LINE OR THE PAVEMENT LIMITS ON AT FAR SIDE OF PAVEMENT.
10. SEPTIC TANKS MUST BE ABANDONED PER NYSDOC APPROVED METHODS.
11. ANY EXCAVATION TO BE LEFT OPEN OVERNIGHT SHALL BE BARRICADED OR ENCLOSED IN FENCING, OR SHALL IF NECESSARY, COVERED WITH STEEL PLATES.
12. DOWN SPOUTS, SUMP PUMPS, AND FOOTING DRAINS SHALL NOT BE CONNECTED TO THE SANITARY SEWER.
13. NO CONNECTION SHALL BE MADE UNTIL BUILDING ROOF IS ERECTED.
14. 4" CAST IRON IS USED ENTIRE THE BUILDING, A MISSION COUPLING IS REQUIRED BEFORE THE TRAP.

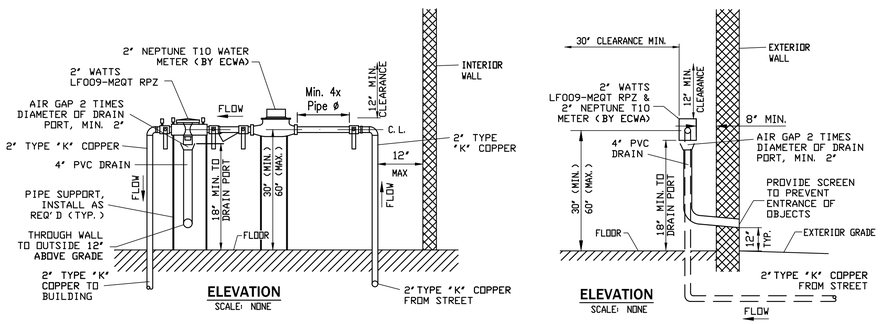
ERIE COUNTY DEPT. OF ENVIRONMENT & PLANNING DIVISION OF SEWERAGE MANAGEMENT	Rev. 1/07	REMOVED OLD NOTES 2 AND 18 ADDED 18 MIN. TO SERVICE PIPE DETAIL	STD. DETAIL 22
	Rev. 11/08	ADDED SLEEVE AND PVC-SDR 35	
	Rev. 1/12	REVISED 6" CAST IRON TRAP NOTE	
	Rev. 10/21	REMOVED VENT, RISER, AND TRAP ASSEMBLY	
	Rev. 11/23	ADDED VENT, RISER, TRAP ASSEMBLY & (A)	
	Rev. 3/24	CHANGED VENT, RISER, TRAP ASSEMBLY SCH 40	
	File: D-22	Date: 3/1/91	



ELEVATION

4" FIRE SERVICE - WATTS 957 RPZ

SCALE: NONE



ELEVATION

SCALE: NONE

ELEVATION

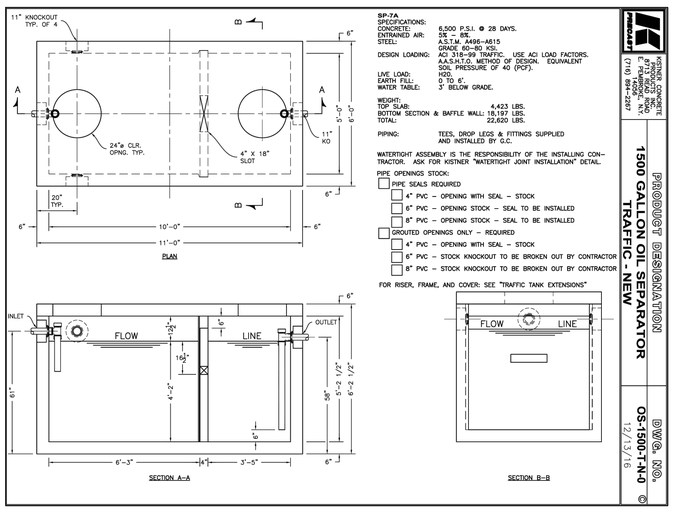
SCALE: NONE

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.



SP-3A

SPECIFICATIONS:
CONCRETE: 6,500 P.S.I. @ 28 DAYS.
ENTRAINED AIR: 5% - 8%.
STEEL: A.S.T.M. A496-A615 GRADE 60-80 KSI.
DESIGN LOADING: ACI 318-99 TRAFFIC. USE ACI LOAD FACTORS. A.A.S.H.T.O. METHOD OF DESIGN. EQUIVALENT SOIL PRESSURE OF 40 (PCF).
LIVE LOAD: HS0.
EARTH FILL: 0 TO 6'
WATER TABLE: 3' BELOW GRADE.

WEIGHT:
TOP SLAB: 4,423 LBS.
BOTTOM SECTION & BAFFLE WALL: 18,197 LBS.
TOTAL: 22,620 LBS.

PIPING: TEES, DROP LEGS & FITTINGS SUPPLIED AND INSTALLED BY G.C.

WATERTIGHT ASSEMBLY IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ASK FOR KISTNER "WATERTIGHT JOINT INSTALLATION" DETAIL.

PIPE OPENINGS STOCK:
- ☐ PIPE SEALS REQUIRED
  - ☐ 4" PVC - OPENING WITH SEAL - STOCK
  - ☐ 6" PVC - OPENING STOCK - SEAL TO BE INSTALLED
  - ☐ 8" PVC - OPENING STOCK - SEAL TO BE INSTALLED
- ☐ GROUTED OPENINGS ONLY - REQUIRED
  - ☐ 4" PVC - OPENING WITH SEAL - STOCK
  - ☐ 6" PVC - STOCK KNOCKOUT TO BE BROKEN OUT BY CONTRACTOR
  - ☐ 8" PVC - STOCK KNOCKOUT TO BE BROKEN OUT BY CONTRACTOR

FOR RISER, FRAME, AND COVER: SEE "TRAFFIC TANK EXTENSIONS"

SECTION B-B

PRECAST CONCRETE PRODUCTS 8 PENFIELD ROAD P.O. BOX 1000 HONEOYE FALLS, N.Y. 14472 (716) 624-2267	PRODUCT DESIGNATION	DWG. NO.
	1500 GALLON OIL SEPARATOR TRAFFIC - NEW	OS-1500-T-N-0 12/13/16

TOWN OF AMHERST APPROVAL BOX:

REVISIONS: No.	Description	Date

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership
6766 Transit Road
Amherst, New York

DRAWING NAME: Utility Details

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO. C-401

Project No: 26-4120

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MCKINLEY AVENUE
(60' WIDE)

EXISTING TREES TO BE PRESERVED:

LOCATION	TYPE	SIZE	CREDIT
FREEMAN ROAD FRONTAGE	DECIDUOUS	10"	2
McKINLEY AVE FRONTAGE	DECIDUOUS	16"	3

PROPOSED DEALERSHIP
17,350 S.F.
F.F.E. = 704.50

ZONED GB

EXISTING WOODED AREA TO REMAIN

Landscape Plan
SCALE: 1"=20'

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 Z60.1
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 4 PARTS TOPSOIL, 1 PART PEAT MOSS, ⅓ PART WELL ROTTED MANURE, 10 LBS 5-10-5 PLANTING FERTILIZER THOROUGHLY MIXED PER CUBIC YARD.
7. STAKE AND WRAP TREES IMMEDIATELY FOLLOWING INSTALLATION.
8. ALL PLANTED AREAS SHALL RECEIVE A 3" LAYER OF SHREDDED PINE BARK MULCH OVER 10 MIL. WEED MAT EQUAL TO "WEEDBLOCK" BY EASY GARDENER OR DEWITT WEED BARRIER.
9. 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.
10. 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.
11. 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.

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.

PLANT LEGEND

- DECIDUOUS TREE
- SMALL TREE
- EVERGREEN TREE/SHRUB
- BUSH/ORNAMENTAL GRASS
- PERENNIAL

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

20 0 20 40Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership
6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

STATE OF NEW YORK
CHRISTOPHER WOOD
078394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Landscape Plan Notes

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO.
L-100

Project No: 26-4120

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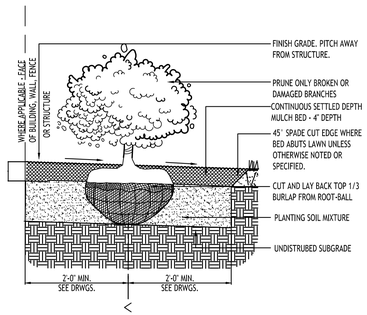
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Plant Schedule - Car Dealership, 6766 Tranist Road, Amherst, New York

KEY	QTY.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	REMARKS
		D E C I D U O U S T R E E S			
QRxB	5	Quercus robur x bicolor 'Long'	Regal Prince Oak	2 1/2" - 3" CAL.	B&B, HT. 40', W 18'
GT	6	Gleditsia triacanthos I "Draves"	Street Keeper Honey Locust	2 1/2" - 3" CAL.	B&B, HT. 40', W 35'
ARr	5	Acer rubrum 'Frank Jr.'	Redpointe Maple	Multi-stem, 12' tall min.	B&B, HT. 40', W 35'
QRn	5	Quercus robur x bicolor Nadler PP17604'	Kindred Spirit Oak	2 1/2" - 3" CAL.	B&B, HT. 30', W 6'
CBI	4	Carpinus betulus 'Lucas'	Lucas Columnar Hornbeam	2 1/2" - 3" CAL.	B&B, HT. 30', W 10'
		S M A L L / O R N A M E N T A L T R E E S			
ALso	8	Amelanchier 'Standing Ovation'	Standing Ovation Serviceberry	1 1/2" x 2" CAL.	B&B, HT. 20', W 15'
		E V E R G R E E N T R E E S			
AC	12	Abies concolor	White Fir	6-8' Tall	B&B, HT. 60', W 20'
PFv	9	Pinus flexilis 'Vanderwolf's'	Blue Limber Pine	6-8' Tall	B&B, HT. 20', W 8'
PAcu	9	Picea abies 'Cupressina'	Norway Spruce - Columnar	6-8' Tall	B&B, HT. 30', W 10'
JSmb	13	Juniperus scopulorum 'Moffat Blue'	Moffat Blue Juniper	6-8' Tall	B&B, HT. 16', W 3'
		S H R U B S			
IGgb	5	Ilex glabra 'Gem Box'	Inkberry Holly - Gem Box	24-36" Tall	B&B, HT. 4', W 4'
AFR	15	Cornus stolonifera/C sericea 'Farrow'	Arctic Fire Red Twig Dogwood	24-36" Tall	B&B, HT. 4', W 4'
RRr	6	Rosa radrazz	Knockout Rose	24" Tall	Cont. no.3 - 3'Tall, 3'Wide
WF	13	Weigela florida 'Wine and Roses'	Wine and Roses Weigela	36-48" Tall	B&B, HT. 4', W 5'
PMp	15	Pinus mugo 'Pumilio'	Dwarf Mugo Pine	24-36" Tall	B&B, HT. 4', W 6'
IxMH	4	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	8	Andropogon Gerardii	Big Blue Stem Andropogon	18-24" Tall	Cont. #3, HT. 4', W 6'
NxF	20	Nepeta x faassenii	Walkers Low Catmint	6-12" Tall	Cont. no.3 - 18" Tall, 1-4'Wide
KF	21	Calamagrostis x acutiflora	Karl Foerster Reed Grass	18-24" Tall	Cont. no.3 - 3'Tall, 3'Wide
MS	6	Miscanthus sinensis 'Adagio'	Adagio Maiden Grass	18-24" Tall	Cont. no.3 - 5'Tall, 3'Wide

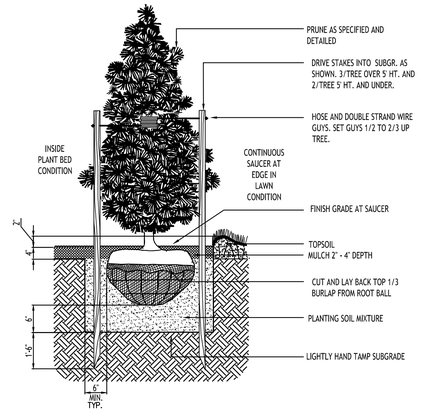
Plant schedule represents total counts for proposed plantings - including any foundation plantings @ all proposed structures

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 responsibility of contractor to allow for any addtional plantings for structures relating to mechanical equipment which may not be shown on plan. Coordination with MEP Engineer(s) may be required.



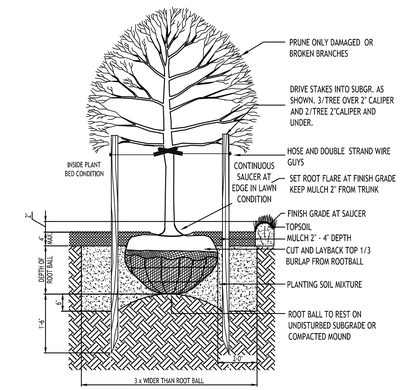
STD. SHRUB PLANTING

NOT TO SCALE



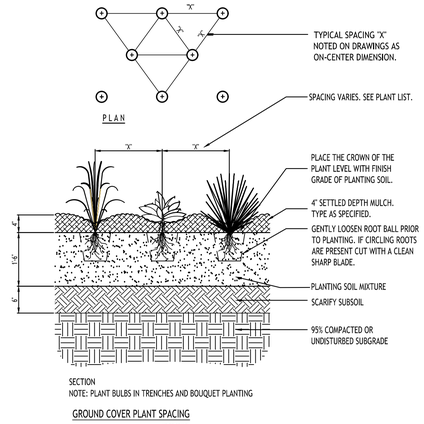
STD. EVERGREEN PLANTING

NOT TO SCALE



STD. DECIDUOUS TREET PLANTING

NOT TO SCALE

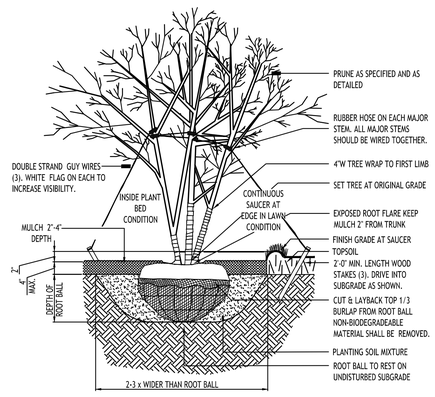


SECTION

NOTE: PLANT BULBS IN TRENCHES AND BOUQUET PLANTING

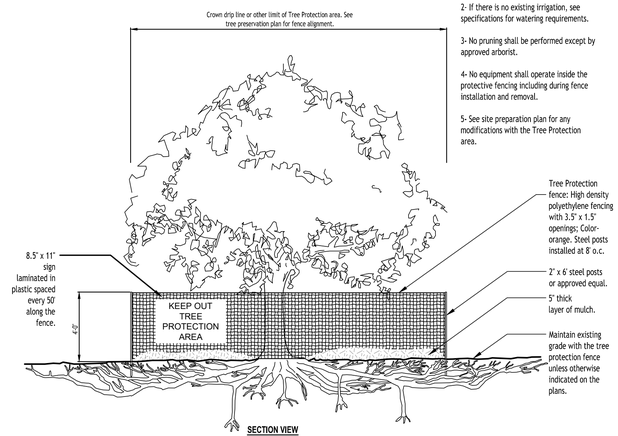
GROUND COVER PLANT SPACING

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.

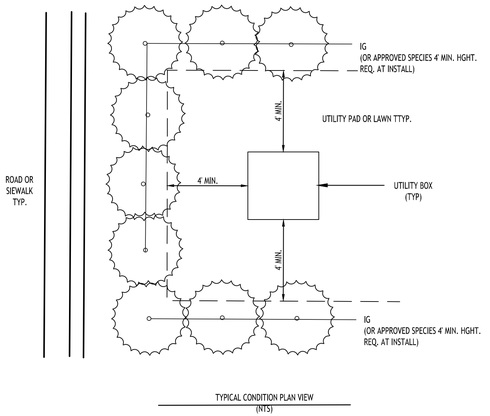
3- No pruning shall be performed except by approved arborist.

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.

TREE PROTECTION / SAFETY NETTING

NO TO SCALE



TYPICAL CONDITION PLAN VIEW (NTS)

NOTES:

1. USE EVERGREEN SHRUBS TO SCREEN ALL ABOVEGROUND UTILITY BOXES AND INFASTRUCTURE FROM ADJACENT ROAD OR SIDEWALK PER TOWN OF AMHERST CODE

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

NO TO SCALE

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN

Buffalo | Utica | Greensboro

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:

Site Details
Plant Schedule

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

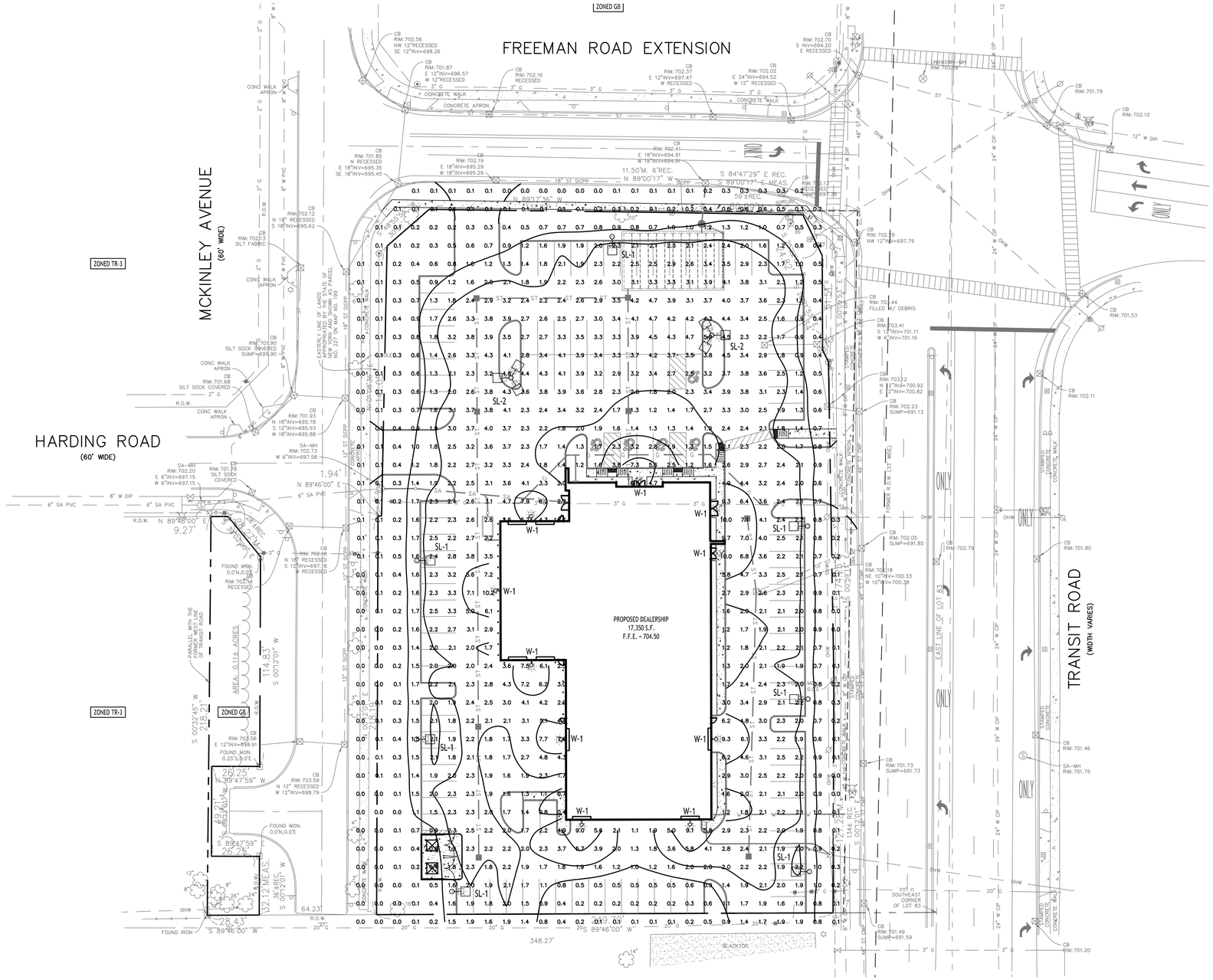
DRAWING NO.

L-101

Project No: 26-4120

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Lighting Plan

SCALE: 1"=30'

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	NOTE 1	NOTE 2	QUANTITY	LUMENS / LAMP
SL-1		(32)	GALLEON AREA AND ROADWAY LUMINAIRE(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD	ELECTRONIC	POLE	COOPER LIGHTING SOLUTIONS – McGRAW-EDISON (FORMERLY EATON), GALN-SA2C-740-U-T4W-HSS	120V 1P 2W	Mounting Height: 25.0' (mounting height includes foundation footing, pole, & lighting fixture)	BUG Rating: B2-U0-G2	7	11451
SL-2		(32)	GALLEON AREA AND ROADWAY LUMINAIRE(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD	ELECTRONIC	POLE	COOPER LIGHTING SOLUTIONS – McGRAW-EDISON (FORMERLY EATON), GALN-SA2C-740-U-T4W-HSS	120V 1P 2W	Mounting Height: 25.0' (mounting height includes foundation footing, pole, & lighting fixture)	BUG Rating: B2-U0-G2	2	11451
W-1		(20) (20) 2200K CCT, 70 CRI LEDS	GEKKO WALL PACK 8000LM PACKAGE 70CRI 2200K FIXTURE w/ TYPE IV WIDE DISTRIBUTION OPTIC	ELECTRONIC	WALL	COOPER LIGHTING SOLUTIONS – McGraw-Edison, GKO-PB2C-722-U-T4W	120V 1P 2W	Mounting Height: 12.0'	BUG Rating: B1-U0-G2	10	6667

GENERAL PHOTOMETRIC SCHEDULE

AVERAGE FOOT-CANDLES	2.18
MAXIMUM FOOT-CANDLES	9.8
MINIMUM FOOT-CANDLES	0.2

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30' 30 0 30 60Ft.

TOWN OF AMHERST APPROVAL BOX:

CARMINA WOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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

DRAWING NAME:
Lighting Plan

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

DRAWING NO.

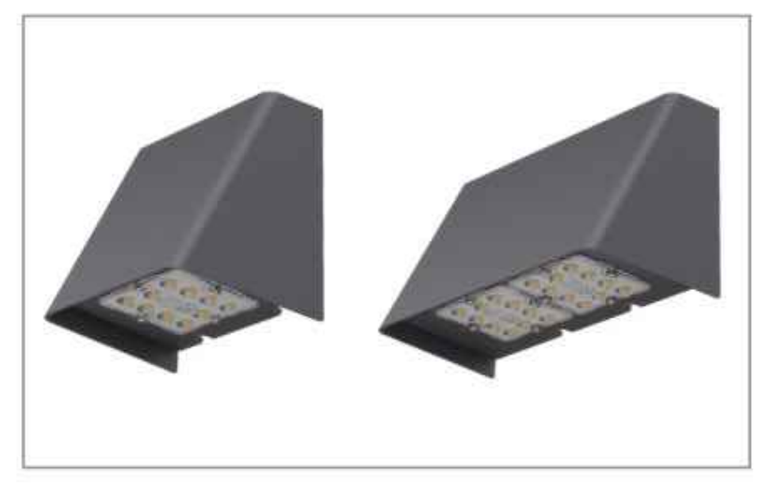
LP-100

Project No: 26-4120

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Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison
GKO Gekko

Wall Mount Luminaire

Product Features

Product Certifications

Interactive Menu
- Ordering Information page 2
- Product Specifications page 2
- Optical Configurations page 3
- Energy and Performance Data page 4
- Control Options page 10

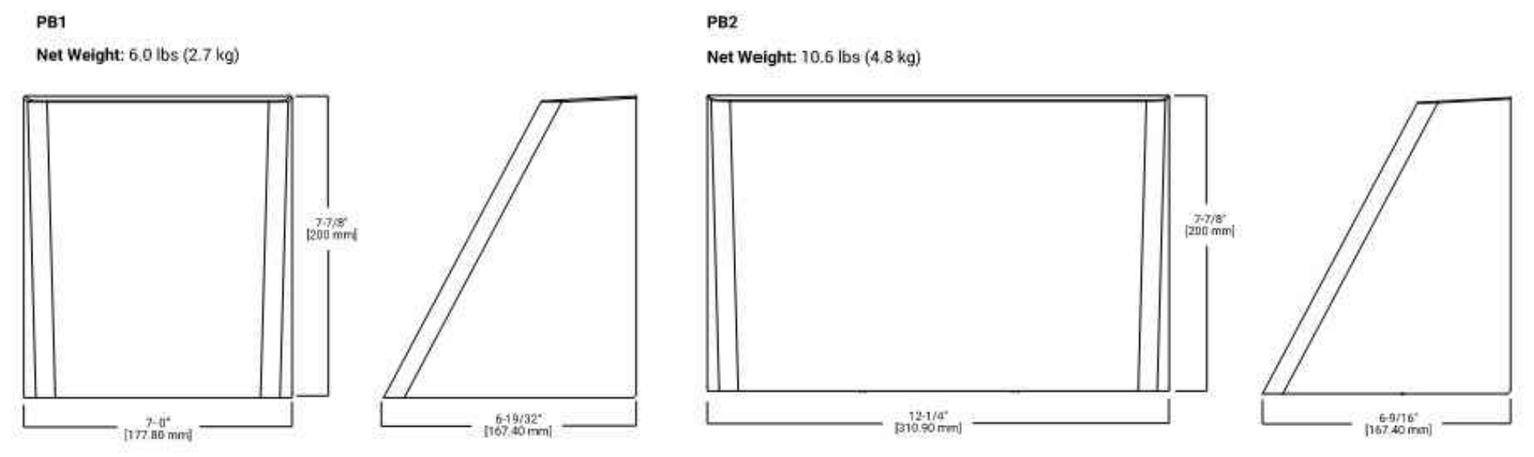
Quick Facts
- Available in small and medium housing sizes
- Choice of 5 optical distributions
- 11 lumen packages from 750 up to 13,500
- Efficacies up to 169 lumens per watt

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)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
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=6W Battery Pack, Cold Weather Rated, CEC Compliant; HSS=Factory Installed House Side Shield; HA=50C° High Ambient; CC=Coastal Construction	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	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

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

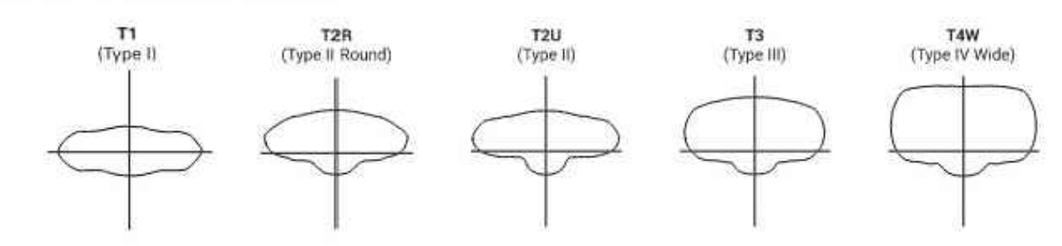
Typical Applications
- Exterior wall, walkway

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

McGraw-Edison — GKO Gekko

Optical Distributions



Energy and Performance Data

Lumen Maintenance

Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours*	L70*
25°C	98.1%	96.3%	95.6%	92.8%	>102,000
40°C	98.0%	96.1%	95.3%	92.3%	>102,000
50°C	97.8%	95.6%	94.8%	91.4%	>102,000

Note: * Calculations provided in accordance with IES TM-21-11 using the configuration resulting in highest LED temperature.

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

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%

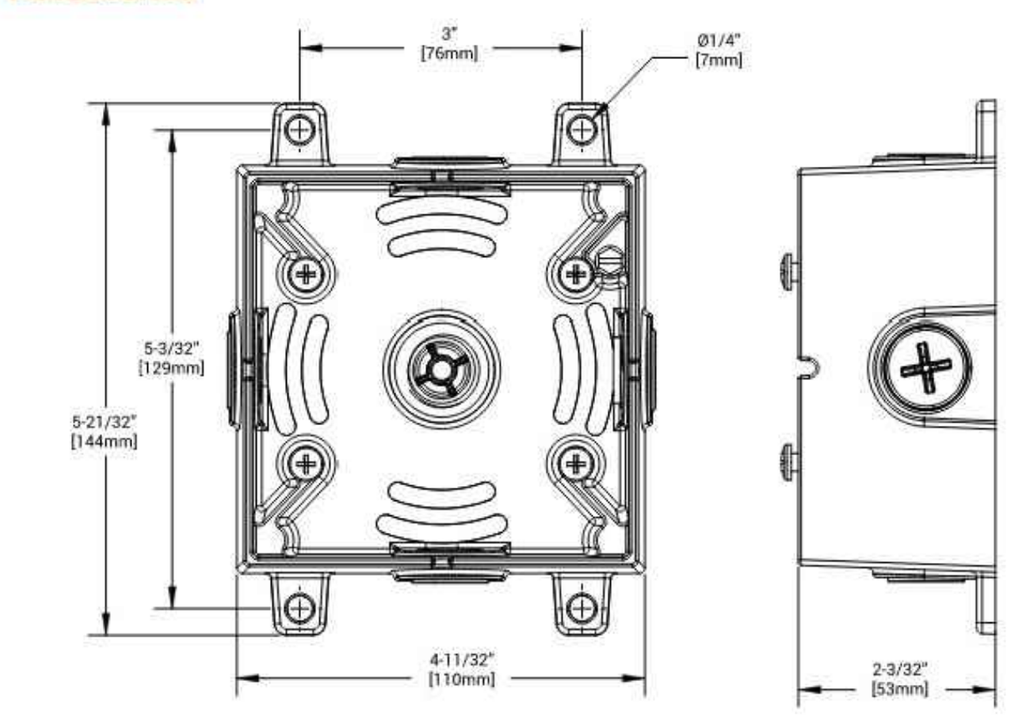
Note: +/-5% typical value

LED Color Multipliers

CRI	CCT 2200	2700	3000	4000	5000
70	0.83	0.92	0.95	1.00	1.00

Note: * Estimates, refer to IES files for accuracy.

Accessories



McGraw-Edison — GKO Gekko

Energy and Performance Data

View GKO Gekko IES files

Number of Light Squares			1 Square (PB1)						2 Squares (PB2)				
Output Level			A	B	C	D	E	F	A	B	C	D	E
Drive Current			180mA	300mA	520mA	740mA	1100mA	1500mA	800mA	1250mA	1700mA	1130mA	1500mA
Nominal Power (Watts)			6	9	17	25	38	54	26	41	57	78	107
Input Current @ 120V (A)			0.040	0.079	0.145	0.218	0.328	0.465	0.224	0.353	0.494	0.640	0.875
Input Current @ 208V (A)			0.025	0.048	0.085	0.127	0.189	0.264	0.131	0.203	0.280	0.367	0.498
Input Current @ 240V (A)			0.023	0.044	0.075	0.112	0.165	0.230	0.115	0.176	0.243	0.320	0.432
Input Current @ 277V (A)			0.021	0.041	0.067	0.099	0.144	0.200	0.102	0.154	0.212	0.280	0.375
Input Current @ 347V (A)			n/a	n/a	0.056	0.076	0.112	0.156	0.079	0.121	0.166	0.219	0.300
Input Current @ 480V (A)			n/a	n/a	0.045	0.058	0.083	0.114	0.060	0.089	0.121	0.160	0.217
CCT/CRI	Optics		PB1A	PB1B	PB1C	PB1D	PB1E	PB1F	PB2A	PB2B	PB2C	PB2D	PB2E
70 CRI 2200K CCT	T1	Lumens	671	1,307	2,244	3,184	4,504	5,814	3,658	5,547	7,241	9,059	11,179
		Lumens per Watt	140	141	132	124	116	107	138	133	124	119	107
		BUG Rating	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	T2R	Lumens	647	1,259	2,161	3,067	4,338	5,600	3,523	5,342	6,974	8,726	10,767
		Lumens per Watt	135	135	127	120	112	103	133	128	120	115	103
		BUG Rating	B0-U0-G0	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	T2U	Lumens	640	1,246	2,138	3,034	4,292	5,541	3,486	5,286	6,901	8,634	10,653
		Lumens per Watt	133	134	126	119	111	102	132	126	119	113	102
		BUG Rating	B0-U0-G0	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	T3	Lumens	637	1,241	2,130	3,023	4,276	5,520	3,473	5,266	6,875	8,601	10,613
		Lumens per Watt	133	133	125	118	110	101	131	126	118	113	101
		BUG Rating	B0-U0-G0	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2
	T4W	Lumens	618	1,203	2,066	2,932	4,147	5,353	3,368	5,107	6,667	8,341	10,293
		Lumens per Watt	129	129	122	115	107	98	127	122	115	109	98
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
70 CRI 2700K CCT	T1	Lumens	744	1,449	2,487	3,529	4,992	6,445	4,055	6,148	8,026	10,042	12,391
		Lumens per Watt	155	156	146	138	129	118	153	147	138	132	118
		BUG Rating	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	T2R	Lumens	717	1,395	2,395	3,399	4,808	6,207	3,905	5,921	7,731	9,672	11,934
		Lumens per Watt	149	150	141	133	124	114	147	142	133	127	114
		BUG Rating	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2
	T2U	Lumens	709	1,381	2,370	3,363	4,757	6,142	3,864	5,859	7,649	9,570	11,808
		Lumens per Watt	148	148	139	131	123	113	146	140	131	126	113
		BUG Rating	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B2-U0-G2	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3
	T3	Lumens	707	1,375	2,361	3,350	4,739	6,118	3,849	5,837	7,620	9,533	11,763
		Lumens per Watt	147	148	139	131	122	112	145	140	131	125	112
		BUG Rating	B0-U0-G0	B0-U0-G0	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
	T4W	Lumens	685	1,334	2,290	3,249	4,596	5,934	3,733	5,661	7,390	9,246	11,409
		Lumens per Watt	143	143	135	127	119	109	141	135	127	121	109
		BUG Rating	B0-U0-G0	B0-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison
GALN Galleon II

Area / Site Luminaire

Product Features

Product Certifications

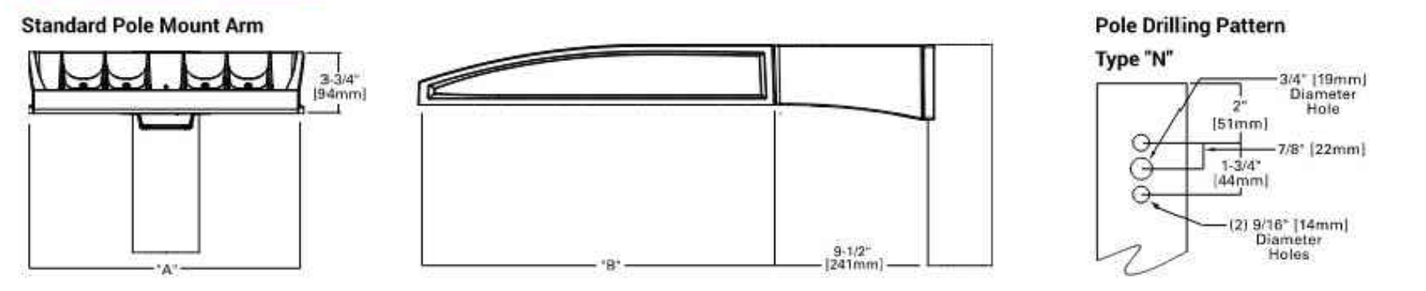
Interactive Menu
- Ordering Information page 2
- Mounting Details page 3
- Optical Distributions page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 13

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

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

Dimensional Details

Standard Pole Mount Arm



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

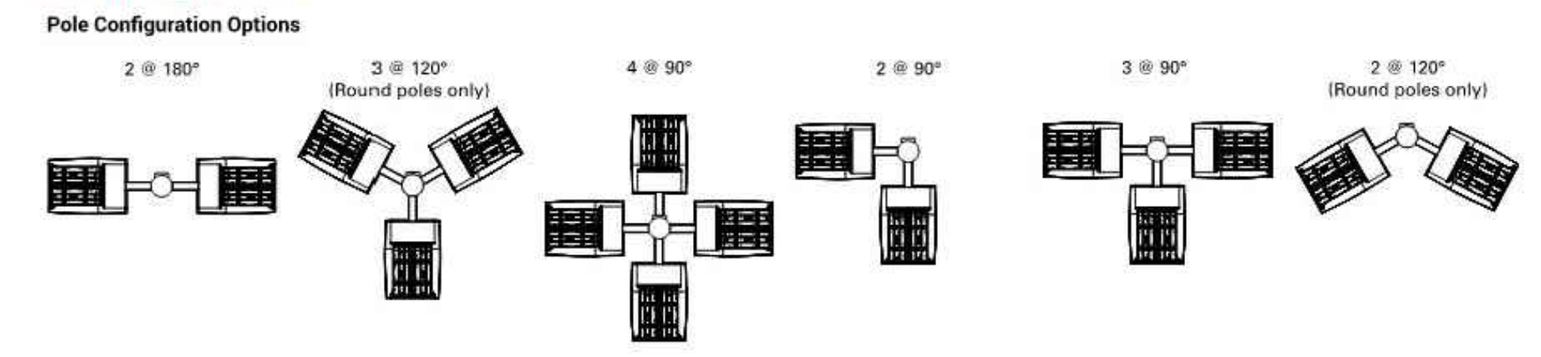
Product Family	Light Square	Square Count	Lumen Output	Color Temperature	Voltage	Distribution	Mounting	Finish
GALN=Galleon II; BAA-GALN=Galleon II Buy American Act Compliant; TAA-GALN=Galleon II Trade Agreements Act Compliant; BABA-GALN=Galleon II BABA/IIJA Compliant	SA=16 LED Light Square; SB=26 LED 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)	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
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	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)	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

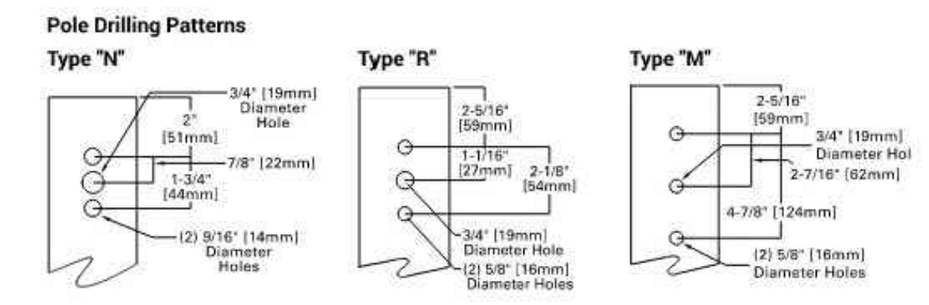
McGraw-Edison — GALN Galleon II

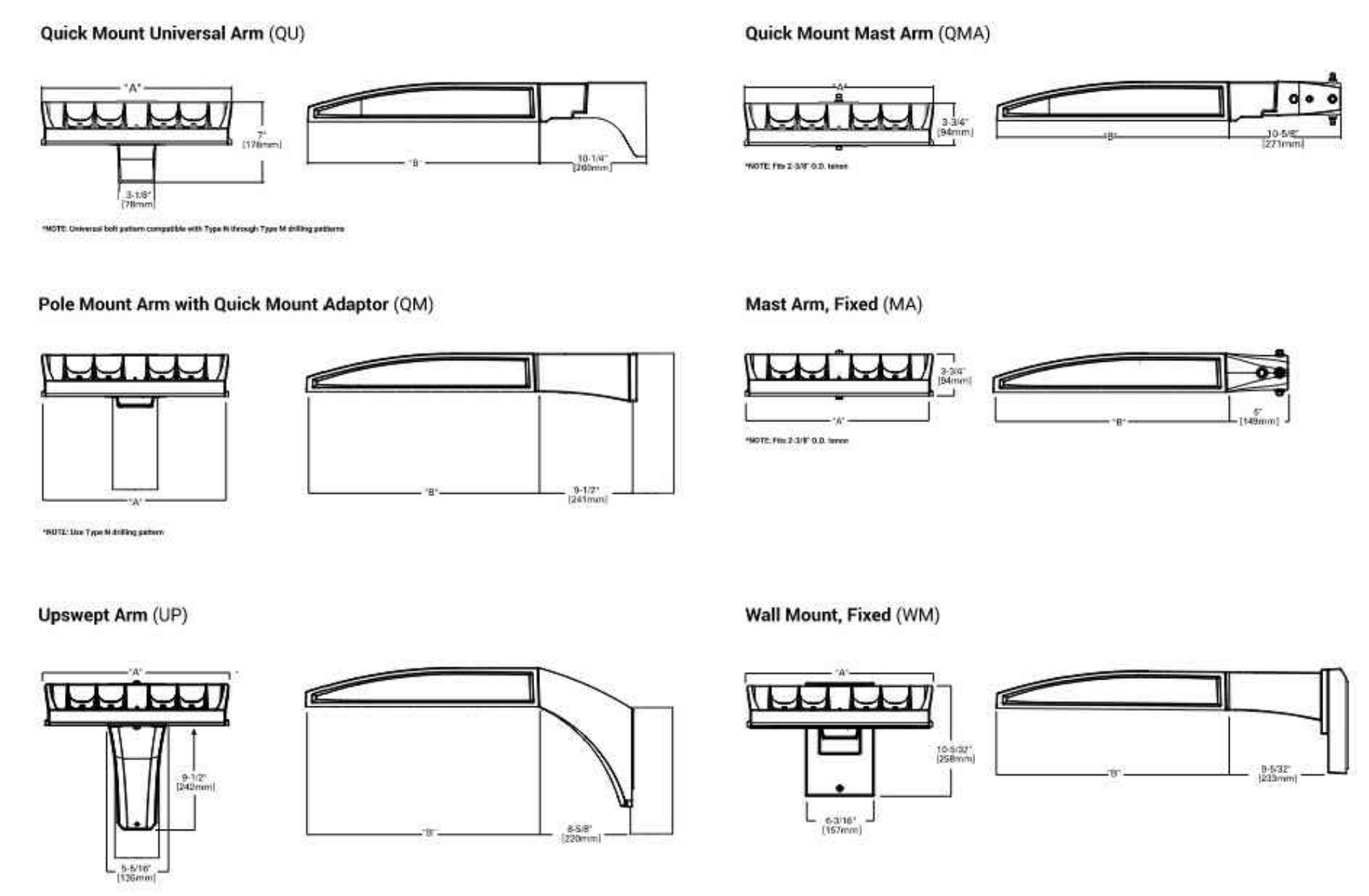
Mounting Details

Pole Configuration Options



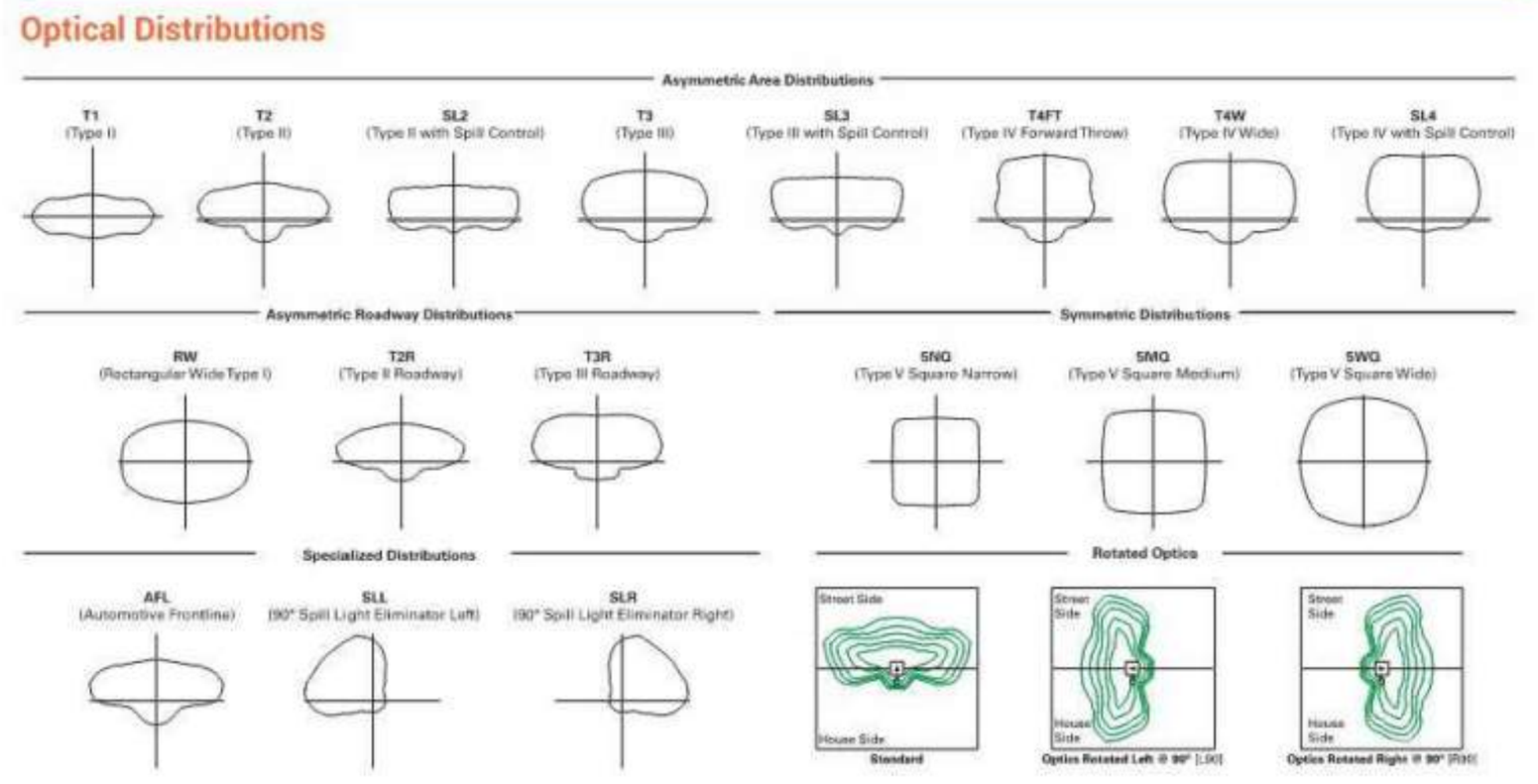
Pole Drilling Patterns





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

SA Light Squares, Output Level 2, 4000K CCT, 70 CRI

Galleon II IES Files | Supplemental Lumen Tables

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		44	82	121	164	204	243	286	325	364
Input Current @ 120V		0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
Input Current @ 208V		0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
Input Current @ 240V		0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
Input Current @ 277V		0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
Input Current @ 347V		0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
Input Current @ 480V		0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
T1	Lumens	5,748	11,423	16,957	22,470	28,446	33,683	39,563	45,867	51,494
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T2	Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	132	140	141	138	140	140	139	142	143
T2R	Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
T3	Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
T3R	Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	134	143	144	140	143	142	142	145	145
T4FT	Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T4W	Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	140	140	137	140	139	139	141	142
SL2	Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
SL3	Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	130	138	139	136	138	138	137	140	140
SL4	Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	129	137	137	134	137	136	136	138	139
5NQ	Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
5MQ	Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5
	Lumens per Watt	137	146	147	144	147	146	145	148	149
5WQ	Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
SLL/SLR	Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	113	120	121	118	120	120	119	122	122
RW	Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	135	144	145	142	144	143	143	146	146
AFL	Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

TOWN OF AMHERST APPROVAL BOX:

CARMINAWOOD DESIGN
Buffalo | Utica | Greensboro

Car Dealership
6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date

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

DRAWING NAME:
Lighting Details

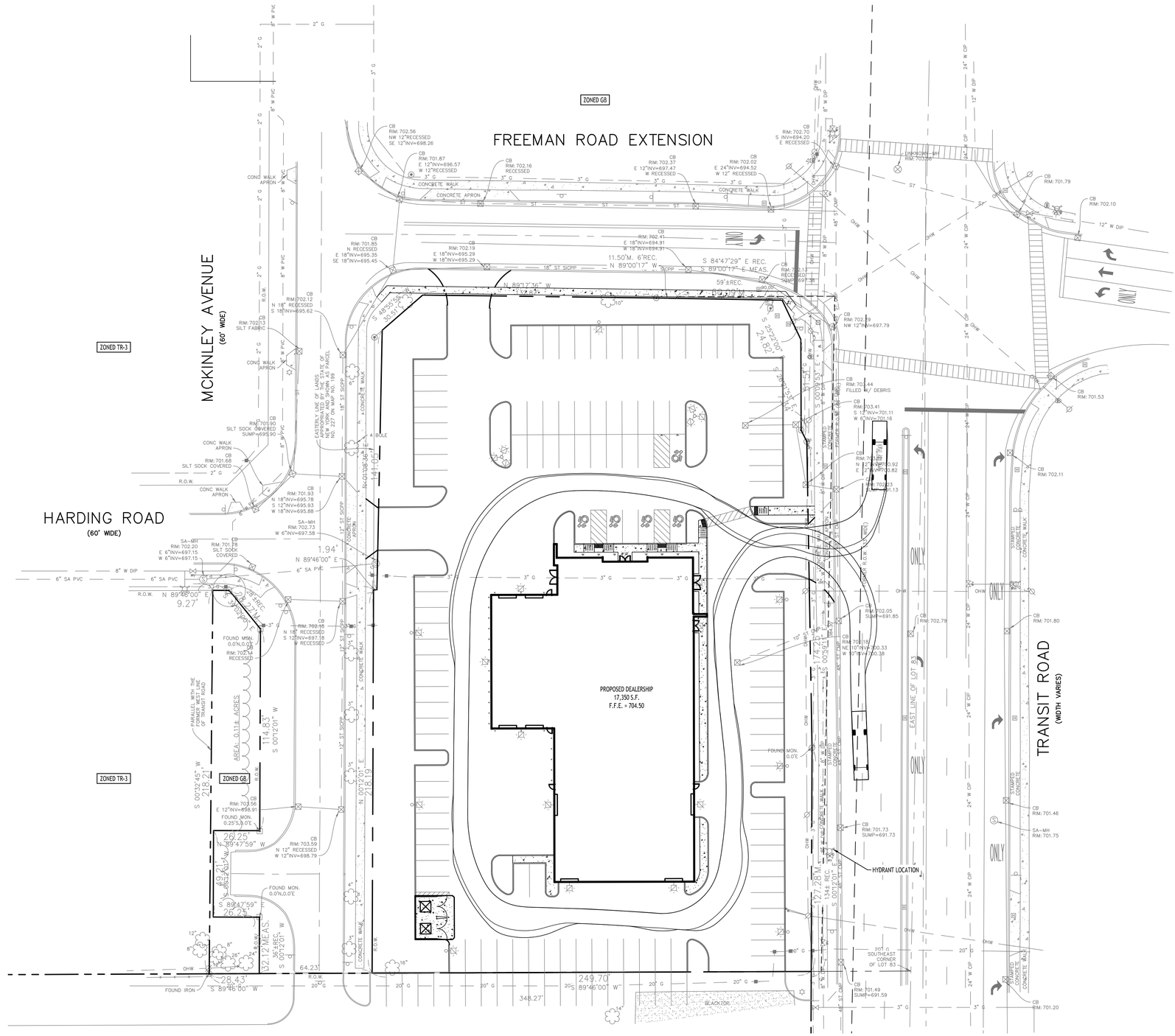
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Scale: As Noted

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LP-101

Project No: 26-4120

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Fire Access Plan

SCALE: 1"=30'

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

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

STATE OF NEW YORK
CHRISTOPHER WOOD
076394
LICENSED PROFESSIONAL ENGINEER

DRAWING NAME:
Fire Access Plan

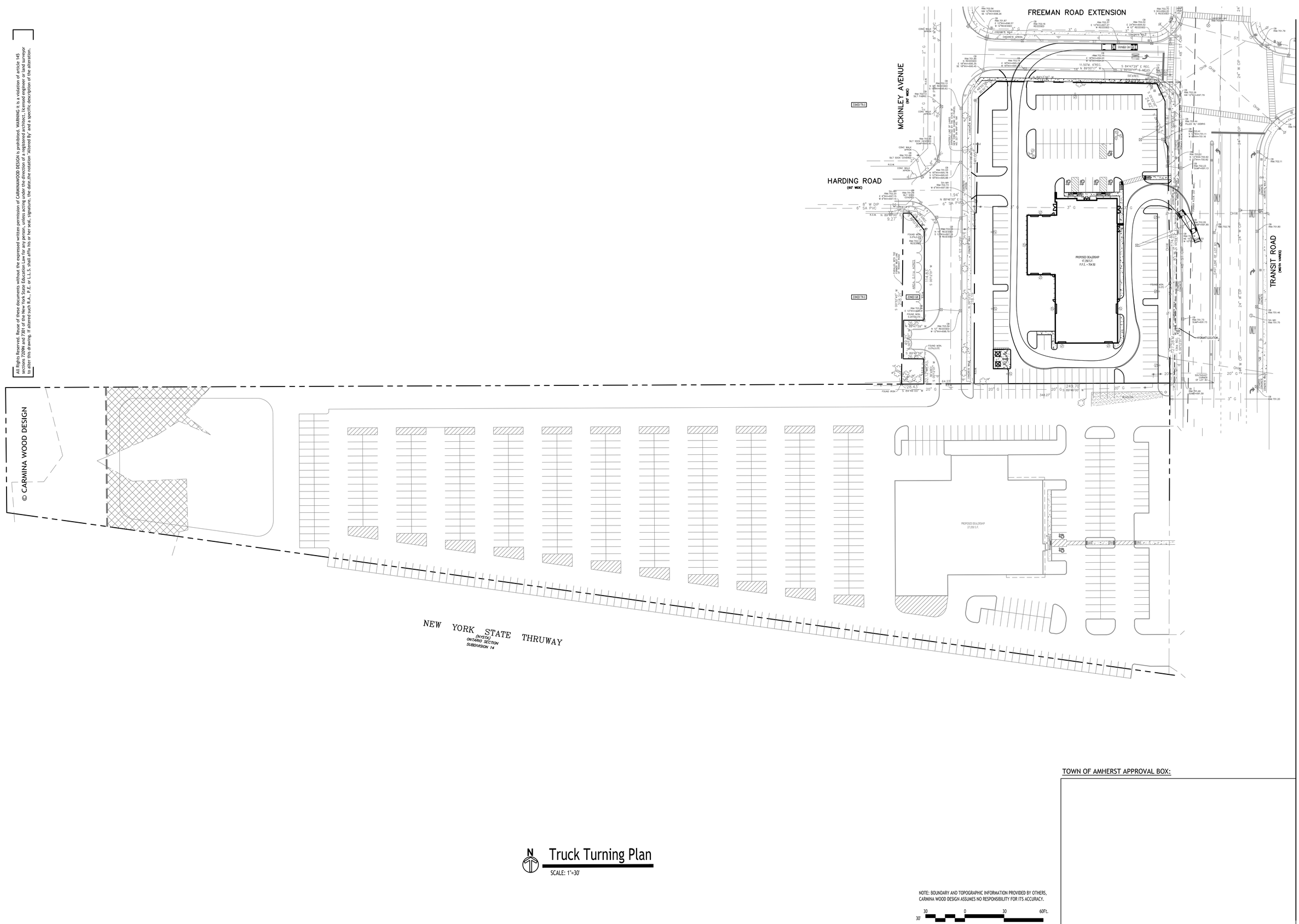
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Truck Turning Plan

SCALE: 1"=30'

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30 0 30 60Ft.
30'

TOWN OF AMHERST APPROVAL BOX:

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Buffalo | Utica | Greensboro

Car Dealership

6766 Transit Road
Amherst, New York

REVISIONS:

No.	Description	Date
1	Per Town comments	10/23/26

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Truck Turning Plan

Date: 8/27/26
Drawn By: A. Pandolfe
Scale: As Noted

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