SITE PLAN

CARPORT PHOTOVOLTAIC SYSTEM

MILLSTONE RIVER ELEMENTARY SCHOOL

75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)

COMMUNITY MIDDLE SCHOOL

95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)

HIGH SCHOOL NORTH

90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

SITUATED IN

PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

PREPARED FOR

GREENSKIES CLEAN ENERGY, LLC
127 WASHINGTON AVENUE
NORTH HAVEN, CT 06473

Greenskies

PREPARED BY

FWH ASSOCIATES, P.A.
CIVIL ENGINEERS LAND SURVEYORS
LANDSCAPE ARCHITECTS SITE PLANNERS
1856 ROUTE 9 TOMS RIVER NEW JERSEY 08755 (732)797-3100

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3	EXISTING CONDITIONS PLAN–COMMUNITY MIDDLE SCHOOL	12/08/25
4	EXISTING CONDITIONS PLAN–HIGH SCHOOL NORTH	12/08/25
5	SITE PLAN–MILLSTONE RIVER ELEMENTARY SCHOOL	12/08/25
6	SITE PLAN–COMMUNITY MIDDLE SCHOOL	12/08/25
7	SITE PLAN–HIGH SCHOOL NORTH	12/08/25
8	LIGHTING PLAN & DETAILS–MILLSTONE RIVER ELEMENTARY SCHOOL	12/08/25
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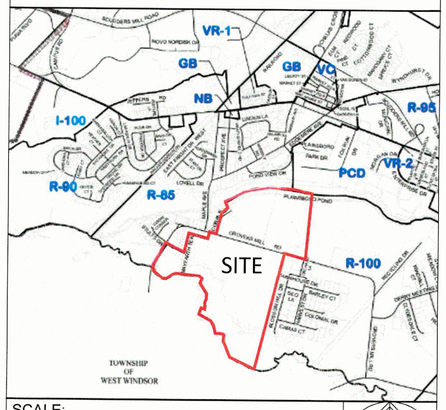
12	STAGING PLAN–COMMUNITY MIDDLE SCHOOL	12/08/25
13	STAGING PLAN–HIGH SCHOOL NORTH	12/08/25
14–16	CONSTRUCTION DETAILS	12/08/25
17	CIRCULATION PLAN–MILLSTONE RIVER ELEMENTARY SCHOOL	12/08/25
18	CIRCULATION PLAN–COMMUNITY MIDDLE SCHOOL	12/08/25
19	CIRCULATION PLAN–HIGH SCHOOL NORTH	12/08/25

ZONING MAP

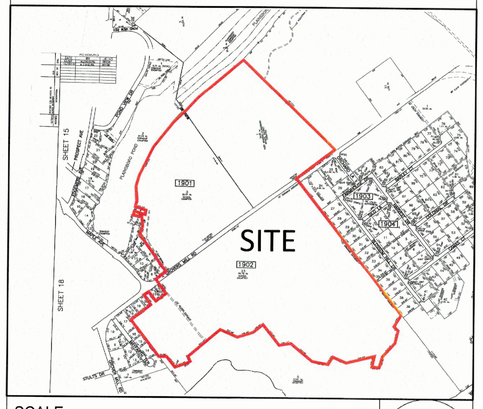


SCALE:
N.T.S.

GENERAL LOCATION MAP

SCALE:
N.T.S.

KEY MAP



SCALE:
N.T.S.

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

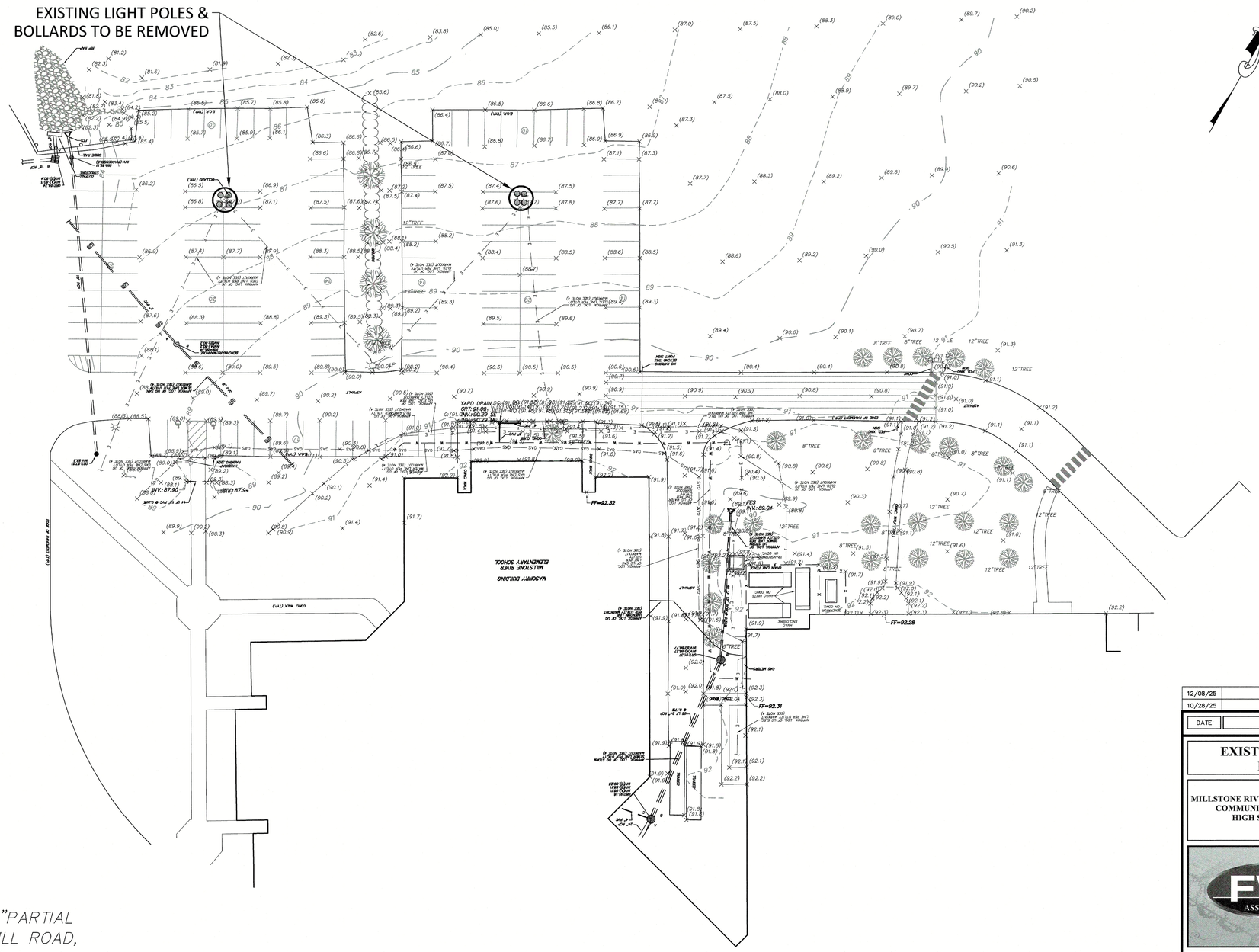
TITLE SHEET

SITE PLAN
MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)
SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
CIVIL ENGINEERS
LAND SURVEYORS
PLANNERS
LANDSCAPE ARCHITECTS
RESERVE SPECIALISTS
ARCHITECTS
FWHASSOCIATES.COM
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

Christopher P. Rosati
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY	DATE
SA	10/28/25
DESIGNED BY: JMF	SCALE: N.T.S.
CHECKED BY: JMF	DRAWING NO.
RELEASED BY: CPR	PROJECT NO. 5696.0004
SHEET NO. 1	OF 19



Existing Features Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
- "B" INLET
- "C" INLET
- "E" INLET
- LIGHT POLE
- SIGN
- EXISTING TREE
- (103.2)× SPOT ELEVATION
- —X— CHAIN LINK FENCE
- —OHW— OVERHEAD WIRES
- — — — STORM PIPE
- —S— SANITARY PIPE
- —W— WATER PIPE
- —E— ELECTRIC LINE
- —GAS— GAS LINE
- — — 99 — — EXISTING CONTOUR

GRAPHIC SCALE 1"=30'

0 30 60 90

BASEMAP BASED OFF OF PLAN TITLED "PARTIAL TOPOGRAPHIC SURVEY", 75 GROVERS MILL ROAD, TAX LOT 1, BLOCK 2001, PREPARED BY FWH ASSOCIATES P.A. SIGNED BY WILLIAM P. SCHEMEL, PLS, DATED 07/20/2025

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

EXISTING CONDITIONS PLAN-MILLSTONE RIVER ELEMENTARY SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

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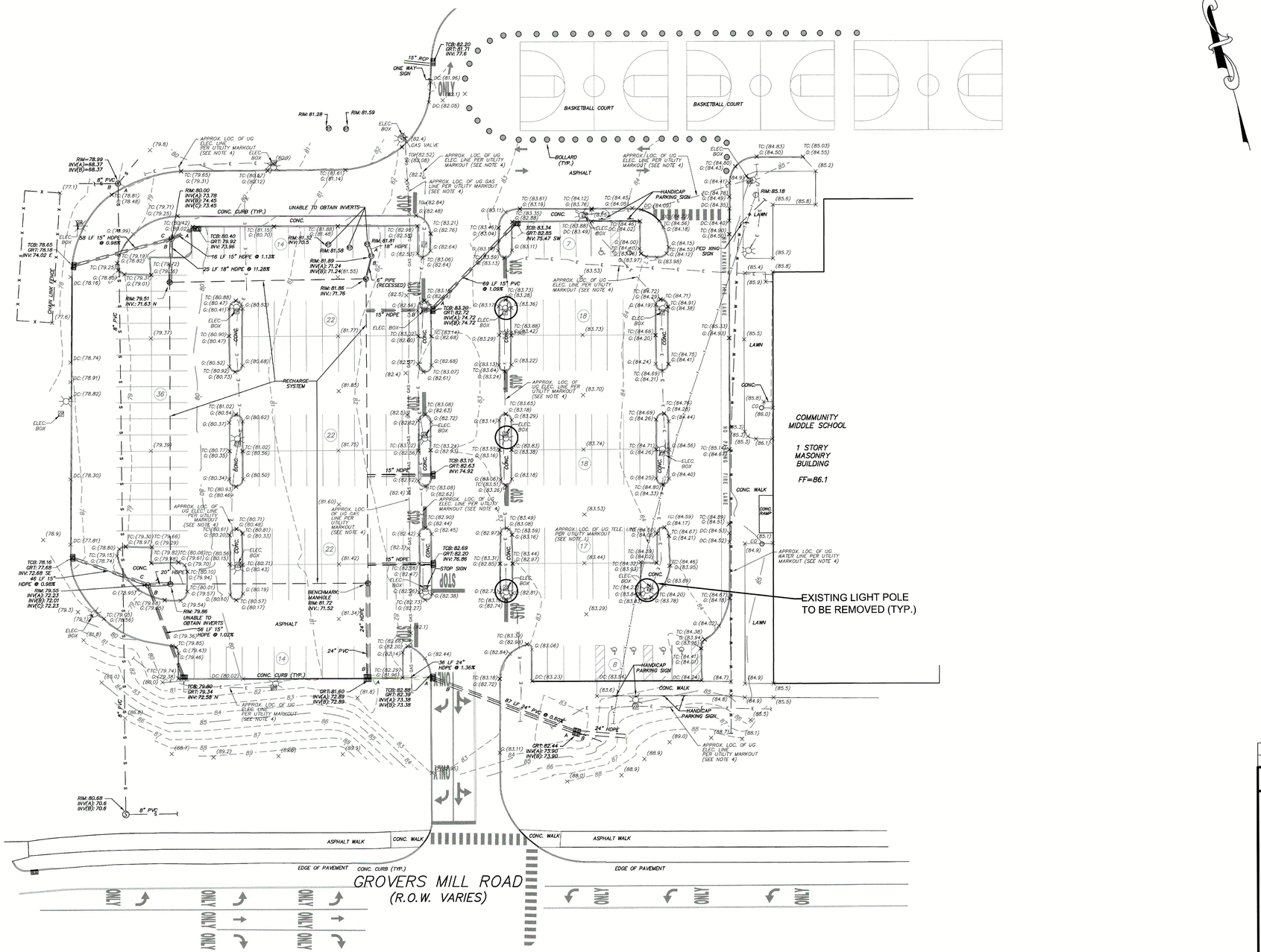
William P. Schemel
PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 36275

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWING NO.
RELEASED BY WPS	PROJECT NO. 5696.0004
SHEET NO. 2	OF 19



BASEMAP BASED OFF OF PLAN TITLED "PARTIAL TOPOGRAPHIC SURVEY", 95 GROVERS MILL ROAD, TAX LOT 3, BLOCK 1901, PREPARED BY FWH ASSOCIATES P.A. SIGNED BY WILLIAM P. SCHEMEL, PLS, DATED 05/30/2025

GRAPHIC SCALE 1"=30'

0 30 60 90

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

EXISTING CONDITIONS PLAN-COMMUNITY MIDDLE SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
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William P. Schemel

PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 36275

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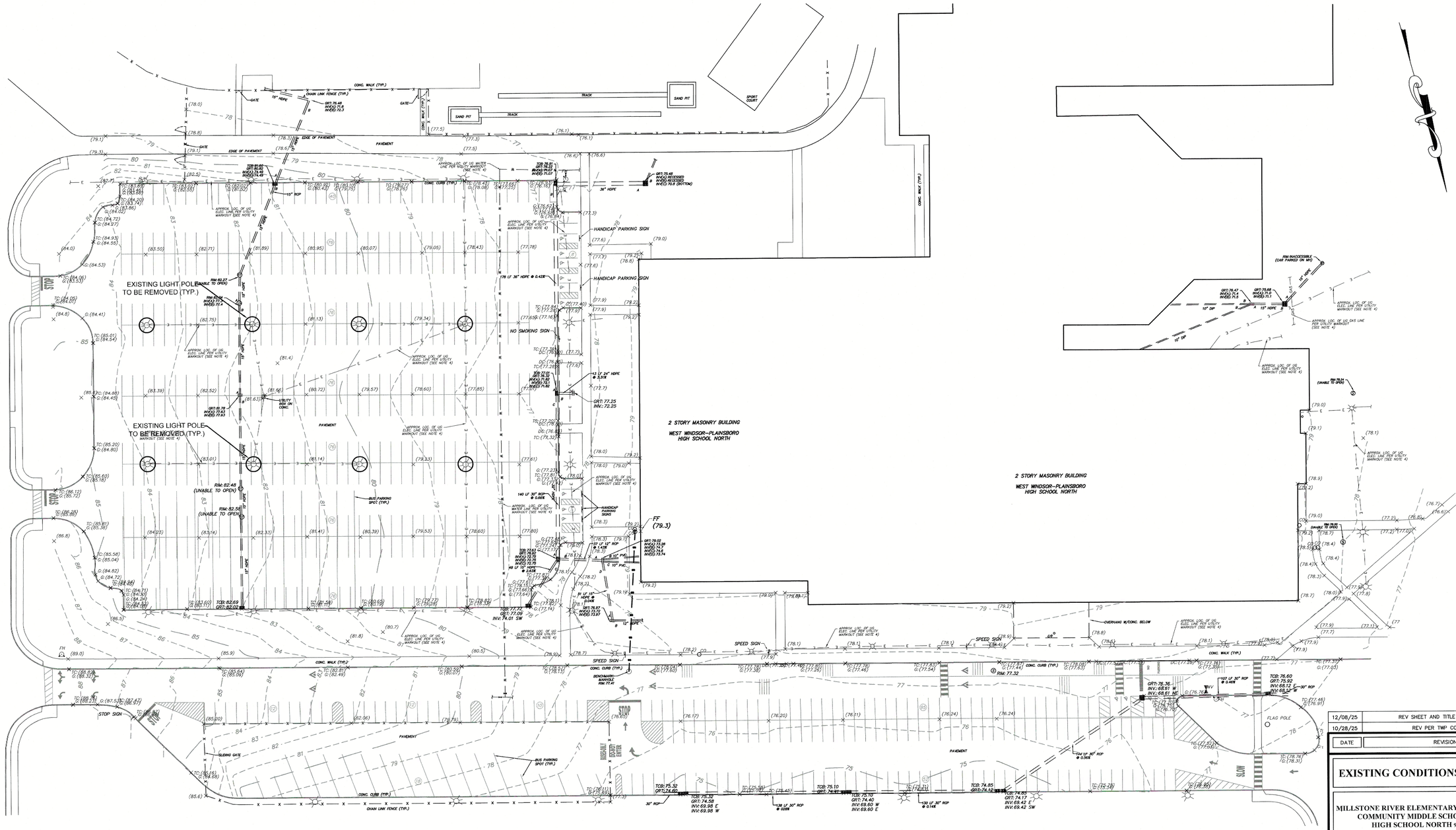
RELEASED BY WPS	PROJECT NO. 5696.0004
SHEET NO. 3	OF 19



BASEMAP BASED OFF OF PLAN TITLED "PARTIAL TOPOGRAPHIC SURVEY", 90 GROVERS MILL ROAD, TAX LOT 23, BLOCK 1902, PREPARED BY FWH ASSOCIATES P.A. SIGNED BY WILLIAM P. SCHEMEL, PLS, DATED 06/17/2025

GRAPHIC SCALE 1"=30'

0 30 60 90

Existing Features Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
- "B" INLET
- "C" INLET
- "E" INLET
- LIGHT POLE
- SIGN
- EXISTING TREE
- (103.2) SPOT ELEVATION
- CHAIN LINK FENCE
- OHW OVERHEAD WIRES
- STORM PIPE
- S SANITARY PIPE
- W WATER PIPE
- E ELECTRIC LINE
- GAS GAS LINE
- 99 EXISTING CONTOUR

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

EXISTING CONDITIONS PLAN-HIGH SCHOOL NORTH

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.

Civil Engineers
Land Surveyors
Planners
Landscape Architects
Reserve Specialists
Architects

FWHassociates.com

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William P. Schemel

PROFESSIONAL LAND SURVEYOR
N.J. LIC. NO. 36275

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWER NO.
RELEASED BY WPS	PROJECT NO. 5696.0004
SHEET NO. 4	OF 19

PHOTOVOLTAIC SYSTEM DETAILS

SYSTEM SIZE (DC):	646.37 Kw
SYSTEM SIZE (AC):	500.00 Kw
DC/AC RATIO:	1.29
MODULE MODEL:	JA SOLAR, JAM72D30 545/MB 545W
MODULE RATING (STC):	545 W
TOTAL MODULE QTY:	1,186
CARPORT #1:	540 MODULES
CARPORT #2:	646 MODULES
RACKING:	CARPORT
TILT / AZIMUTH:	2° TILT @ 150° AZIMUTH

Solar General Notes:

1. Solar panel parking canopy spacing shall be Min. 20' and Max. 32' between structures.
2. All existing curb that is damaged/disturbed shall be replaced to the nearest sound joint as required.
3. All parking space striping within the construction areas and under the solar canopy's shall be re-striped. All remaining existing striping outside of the construction area shall be re-striped by owner if needed.
4. All trees and plants not being removed as part of the proposed improvements shall be protected to the best extent possible. Any trees that are removed or damaged as a result of the proposed project shall be replaced. Any landscaping other than trees shall be replaced with like landscaping materials, subject to the review and approval of the Planning Board Engineer's Office.
5. All existing pole mounted lighting within the limits of the solar canopy system shall be removed.
6. Solar canopy columns were designed to be locate either in a parking island or in between two rows of parking. No parking stalls are expected to be lost due to the proposed improvements.

AERIAL MAP
SCALE: N.T.S.

July 17, 2025 Client# 5696.0004
List of adjoiners within 200 feet
Block 2001 Lot 1

Block	Lot	Owner(s)
Block 1801	Lot 120	Kaushal, Devika 109 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 121	Batra, Naveen & Anju 111 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 122	Scott, Wanda 115 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 2	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1901	Lot 4	Wagenblast, William & Kathleen 19 Corra Lane Plainsboro, NJ08536
Block 1901	Lot 5	Simmins, Stephan & Ramirez, Eliana 99 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 6	Bobenrov, Kirill & Bebenrova, Sonia 103 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 7	Wong, Pancras & Mao, Julie 105 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 8	Leite, Jose G F & Elisangela C 107 Grovers Mill Rd Plainsboro, NJ08536
Block 1901	Lot 9	TGodosov, Angel & Todosova, Netka 46 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 10	Mogali, Vinay P & Rupa 44 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 11	Sharma, Manish Kumar & Mohini 42 Maple Ave Plainsboro, NJ08536
Block 1901	Lot 12	Rabitsky, Gregory & Kilishina, Anna 40 Maple Ave Plainsboro, NJ08536
Block 1902	Lot 1	Walker Gordon Laboratory Company PO Box 426 Plainsboro, NJ08536
Block 1902	Lot 4	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 5	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 6	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 7	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 10	Gedrich, Ilya & Zoya 118 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 11	Rauh, Francis ETUX 120 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 12	Lumandong, Jeremie 3 Mayfarth Ter Plainsboro, NJ08536
Block 1902	Lot 13	Johnson, Olin T & Sandy W 5 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 14	Bauer, Eckhard Etux 6 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 15	Pandolpho, Beth 4 Mayfarth Ter Plainsboro, NJ08536
Block 1902	Lot 16	Banerjee, Santanu & Kasturi 2 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 17	Chew, William 116 Grovers Mill Rd Plainsboro, NJ08536
Block 1902	Lot 18	Goyal, Amit & Bindiya 114 Grovers Mill Rd Plainsboro, NJ08536
Block 1902	Lot 19	Hutton, Janet A 112 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 20	Krishnan, Kumar & Kumar, Ramya 110 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 21	Kennedy, Thomas F 106 Grovers Mill Rd Plainsboro, NJ08536
Block 1902	Lot 22	Shaik, Ghouse Basha & Anitha 104 Grovers Mill Rd Plainsboro, NJ08536
Block 1902	Lot 24	RBM Plainsboro LLC 20 Harrison Avenue Waldwick, NJ07463
Block 1902	Lot 25	Crossing at Grovers Mill Homeowners 7 Camas Court Plainsboro, NJ08536
Block 1902	Lot 27	Gulati, Hitgesh & Ashu 1 Blossom Hill Dr Plainsboro, NJ08536
Block 1902	Lot 28	Khaw, Kenneth & Ellen Lee 3 Blossom Hill Drive Plainsboro, NJ 08536
Block 1902	Lot 29	Xu, Ke & Yan, Wei 5 Blossom Hill Drive Plainsboro, NJ08536
Block 1902	Lot 30	Prasad, Chetlur & Vidya 7 Blossom Hill Drive Plainsboro, NJ08536
Block 1902	Lot 31	Yerramalla, L N & Kathagundla, S P 9 Blossom Hill Dr Plainsboro, NJ 08536
Block 1902	Lot 32	Amin, Prakash & Smita 11 Blossom Hill Drive Plainsboro, NJ08536
Block 1902	Lot 33	Linga, Krishna & Smita 13 Blossom Hill Drive Plainsboro, NJ 08536
Block 1902	Lot 34	Huang, Ann Y-Trustee 15 Blossom Hill Drive Plainsboro, NJ08536
Block 1902	Lot 35	Crossing at Grovers Mill Homeowners 7 Camas Court Plainsboro, NJ08536
Block 1902	Lot 36	King, Mark Lincoln & Jennifer A 17 Blossom Hill Drive Plainsboro, NJ08536
Block 1902	Lot 37	Natarajan, Narayanan & Jayasree 19 Blossom Hill Dr Plainsboro, NJ 08536
Block 1902	Lot 38	Anand, Anuj & Ratna 21 Blossom Hill Dr Plainsboro, NJ08536
Block 1902	Lot 39	Arumugham, Rajumar S & Sinha, Anupam 23 Blossom Hill Dr Plainsboro, NJ08536
Block 2001	Lot 2	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 2001	Lot 30	Walker Gordon Laboratory Company PO Box 426 Plainsboro, NJ08536

Director of Planning for Middlesex County
Middlesex County Administration
75 Bayard Street, 5th Floor
New Brunswick, NJ08901

NJ American Water
1341 North Avenue
Plainfield, NJ07061-0001

NJ Dept. of Transportation
1035 Parkway Avenue
CN 600
Trenton, NJ08625

PSE&G
Manager – Corporate Properties
80 Park Plaza, T6B
Newark, NJ07102

Comcast Cable Vision
90 Lake Avenue
East Windsor, NJ08520

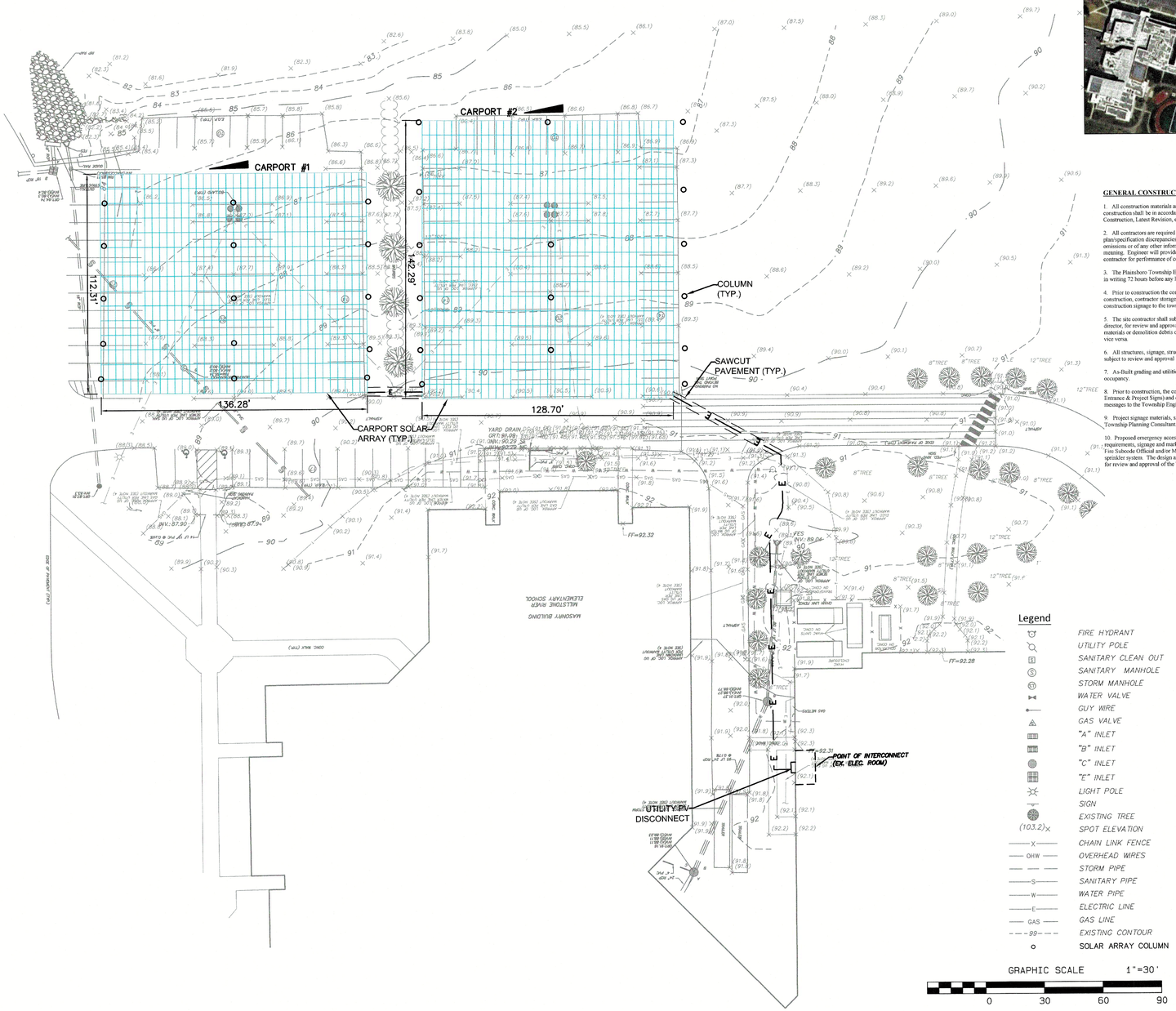
United Water Princeton Meadows/a subsidiary of United Water Mid-Atlantic
111 Howard Boulevard, Suite 203
Mount Arlington, NJ07856-1315

Stony Brook Regional Sewerage Authority
290 River Road
Princeton, NJ08540

Right-of-Way Dept. Sun Pipe Line Co.
Ten Penn Center 26th Floor, 1801 Market Street
Philadelphia, PA 19103-1699

Director of Planning for Mercer County
PO Box 8068
Trenton, NJ08650

Comcast Cable Communications, Inc.
Andy Corfes
Area Construction Supervisor – Monmouth Cluster
751 Brick Blvd
Brick, NJ08723



GENERAL CONSTRUCTION NOTES:

1. All construction materials and methods for roadway, paving, site work and drainage construction shall be in accordance with NJDOT Specifications for Road and Bridge Construction, Latest Revision, except as modified hereon and in the specifications.

2. All contractors are required to notify engineer immediately (and prior to construction) of any plans/specification discrepancies, layout/elevation discrepancies, conflicts, apparent errors, omissions or of any other information contained herein which the contractor feels is unclear as to meaning. Engineer will provide clarification and, if necessary, corrections as required by the contractor for performance of contractors work.

3. The Plainsboro Township Engineer and Freehold Soil Conservation District shall be notified in writing 72 hours before any land disturbance.

4. Prior to construction the contractor shall submit information and plans relating to phasing of construction, contractor storage of materials, contractor parking, contractors trailers and construction signage to the township engineer for approval.

5. The site contractor shall submit a "Hauling Plan" to the township community development director, for review and approval, prior to construction for the movement of any construction materials or demolition debris on roadways leading from the site to the township borders and vice versa.

6. All structures, signage, structural details and foundations, and building retaining walls are subject to review and approval by the township Construction Code Official.

7. As-Built grading and utilities shall be provided at the time of the request for certificate of occupancy.

8. Prior to construction, the contractor shall submit a plan with all construction signage (e.g. Entrance & Project Signs) and details including color, number of signs, size of signs and messages to the Township Engineer for approval.

9. Project signage materials, size and type are subject to the review and approval of the Township Planning Consultant.

10. Proposed emergency access to and around the proposed building, as well as all fire lane requirements, signage and markings, fire hydrant locations and connections are subject to Fire Subcode Official and/or Marshall approval. The proposed building will employ an internal sprinkler system. The design and adequacy of the proposed sprinkler system shall be submitted for review and approval of the Township Fire Code Official.

11. All imported fill materials shall be tested for the US EPA Target Analyte List/Target Compound List (TAL/TCL-10) prior to delivery to the project. Testing intervals to be one (1) test per each source of material from undisturbed natural ground. Testing intervals for all other sources to be determined upon the volume of fill to be imported.

12. As-as-built plan and certification shall be provided for the storm infiltration system design engineer indicating that the system has been constructed on accordance with the final plans and specifications and that the system will function as originally designed prior to bond release.

13. The contractor shall submit to the township for review and approval prior to site disturbance a detailed sequence of construction and contractor's staging plan to separate and manage construction traffic and private vehicle traffic. This will further establish the contractor's work and staging for each phase of construction including items such as walkways, pedestrian crosswalks, demolition, installation of structures, underground utilities and drainage, and off-site improvements, if any.

14. All pavement striping and markings shall be thermoplastic.

15. All traffic signage shall be retroflective and shall have concrete foundations.

16. As-built grading and utilities shall be provided at the time of the request for certificate of occupancy. The final as-built plan shall be provided to the township planning staff as both a hard copy (paper or mylar) and as a digital/electronic document. The digital data used for such documents shall be in vector format and contain coordinate values for at least (3) identifiable boundary corners (preferably in the 1983 New Jersey State Plan Coordinate System).

17. Signage shall be provided consistent with Princeton Forrestal Center Design Requirements signage materials, size and type are subject to the review and approval of the township. All traffic signs shall be in accordance with M.U.T.C.D. and design details as identified on detail sheet.

18. The locations of all fire lanes are subject to review by the Township Fire Official.

Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
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- —S— SANITARY PIPE
- —W— WATER PIPE
- —E— ELECTRIC LINE
- —GAS— GAS LINE
- --99-- EXISTING CONTOUR
- o SOLAR ARRAY COLUMN

GRAPHIC SCALE 1"=30'
0 30 60 90

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SITE PLAN-MILLSTONE RIVER ELEMENTARY SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

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PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWER NO.
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 5	OF 19

July 17, 2025 Client# 5696.0004
List of adjoiners within 200 feet

Block	Lot	Owner(s)
Block 1901	Lot 2	Owner(s)
Block 1801	Lot 120	Kaushal, Devika 109 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 121	Batra, Naveen & Anju 111 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 122	Scott, Wanda 115 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 2	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1901	Lot 4	Wagenblast, William & Kathleen 19 Cora Lane Plainsboro, NJ08536
Block 1901	Lot 5	Simmins, Stephan & Ramirez, Eliana 99 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 6	Bebenov, Kiril & Bebenova, Sonia 103 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 7	Wong, Pancras & Mao, Julie 105 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 8	Leite, Jose G F & Elisangela C 107 Grovers Mill Rd Plainsboro, NJ08536
Block 1901	Lot 9	TGodosov, Angel & Todosova, Netka 48 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 10	Mogali, Vinay P & Rupa 44 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 11	Sharma, Manish Kumar & Mohini 42 Maple Ave Plainsboro, NJ08536
Block 1901	Lot 12	Rabitsky, Gregory & Hlushina, Anna 40 Maple Ave Plainsboro, NJ08536
Block 1902	Lot 1	Walker Gordon Laboratory Company PO Box 426 Plainsboro, NJ08536
Block 1902	Lot 4	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 5	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
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Block 1902	Lot 10	Gedrich, Ilya & Zoya 118 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 11	Rauh, Francis ETUX 120 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 12	Lumandong, Jeremie 3 Mayfarth Ter Plainsboro, NJ08536
Block 1902	Lot 13	Johnson, Olin T & Sandy W 5 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 14	Bauer, Eckhard Elux 6 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 15	Pandolphe, Beth 4 Mayfarth Ter Plainsboro, NJ08536
Block 1902	Lot 16	Banerjee, Santanu & Kasturi 2 Mayfarth Terrace Plainsboro, NJ08536
Block 1902	Lot 17	Chew, William 116 Grovers Mill Rd Plainsboro, NJ08536
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Director of Planning for Middlesex County
Middlesex County Administration
75 Bayard Street, 5th Floor
New Brunswick, NJ08901

NJ American Water
1341 North Avenue
Plainfield, NJ07061-0001

NJ Dept. of Transportation
1035 Parkway Avenue
CN 600
Trenton, NJ08625

PSE&G
Manager – Corporate Properties
80 Park Plaza, T6B
Newark, NJ07102

Comcast Cable Vision
90 Lake Avenue
East Windsor, NJ08520

United Water Princeton Meadows/a subsidiary of United Water Mid-Atlantic
111 Howard Boulevard, Suite 203
Mount Arlington, NJ07856-1315

Stony Brook Regional Sewerage Authority
290 River Road
Princeton, NJ08540

Right-of-Way Dept. Sun Pipe Line Co.
Ten Penn Center 26th Floor, 1801 Market Street
Philadelphia, PA 19103-1699

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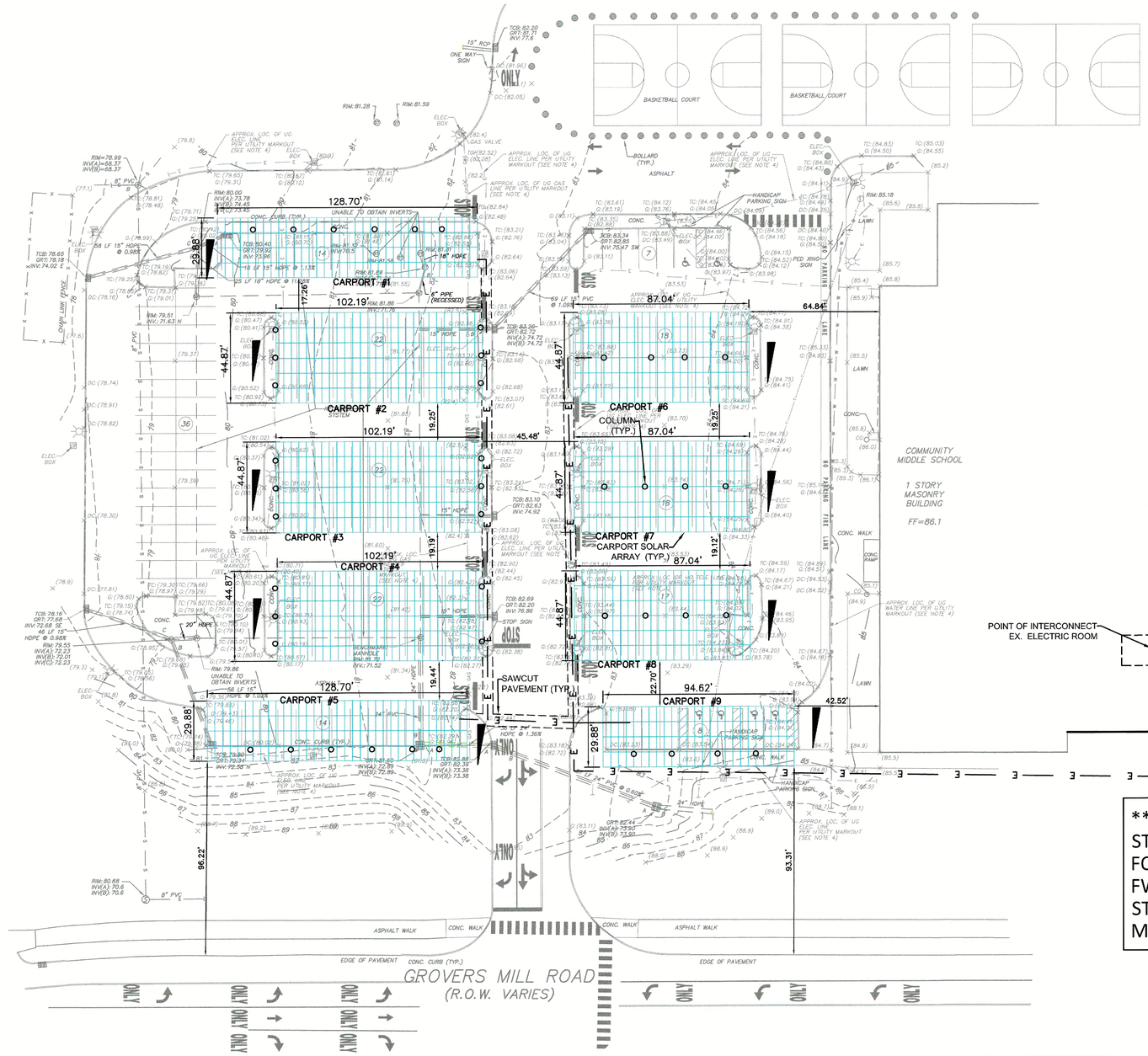
Trenton, NJ08650

Comcast Cable Communications, Inc.
Andy Cortes
Area Construction Supervisor – Monmouth Cluster
751 Brick Blvd.
Brick, NJ08723



**CARPORTS #2, #3 & #4 SPAN OVER AN EXISTING STORMWATER RECHARGE SYSTEM. COLUMN FOUNDATION LOCATIONS MUST BE COORDINATED WITH FWH ASSOCIATES PRIOR TO CONSTRUCTION. STORMWATER RECHARGE SYSTEM MAY NOT BE MODIFIED OR COMPROMISED.

GRAPHIC SCALE 1"=30'
0 30 60 90

GENERAL CONSTRUCTION NOTES:

1. All construction materials and methods for roadway, paving, site work and drainage construction shall be in accordance with NJDOT Specifications for Road and Bridge Construction, Latest Revision, except as modified hereon and in the specifications.

2. All contractors are required to notify engineer immediately (and prior to construction) of any plan/specification discrepancies, layout/elevation discrepancies, conflicts, apparent errors, omissions or of any other information contained herein which the contractor feels is unclear as to meaning. Engineer will provide clarification and, if necessary, corrections as required by the contractor for performance of contractors work.

3. The Plainsboro Township Engineer and Freehold Soil Conservation District shall be notified in writing 72 hours before any land disturbance.

4. Prior to construction the contractor shall submit information and plans relating to phasing of construction, contractor storage of materials, contractor parking, contractors trailers and construction signage to the township engineer for approval.

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11. All imported fill materials shall be tested for the US EPA Target Analyte List/Target Compound List (TAL/TCL+10) prior to delivery to the project. Testing intervals to be one (1) test per each source of material from undisturbed natural ground. Testing intervals for all other sources to be determined upon the volume of fill to be imported.

12. An as-built plan and certification shall be provided for the storm infiltration system design engineer indicating that the system has been constructed on accordance with the final plans and specifications and that the system will function as originally designed prior to bond release.

13. The contractor shall submit to the township for review and approval prior to site disturbance a detailed sequence of construction and contractor's staging plan to separate and manage construction traffic and private vehicle traffic. This will further establish the contractor's work and staging for each phase of construction including items such as walkways, pedestrian crosswalks, demolition, installation of structures, underground utilities and drainage, and off-site improvements, if any.

14. All pavement striping and markings shall be thermoplastic.

15. All traffic signage shall be retroflective and shall have concrete foundations.

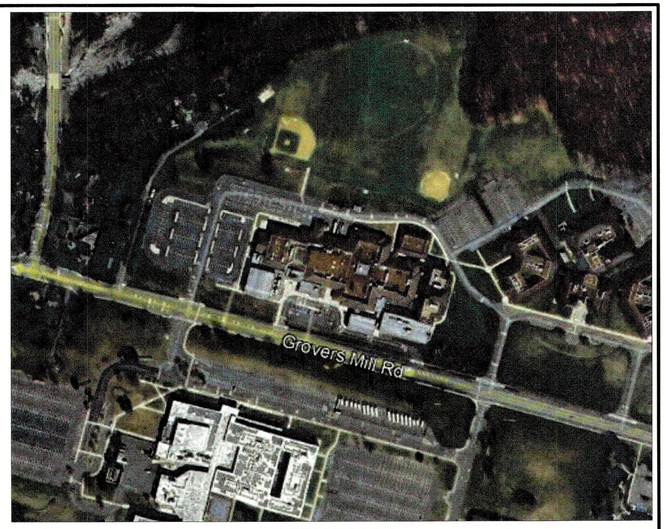
16. As-built grading and utilities shall be provided at the time of the request for certificate of occupancy. The final as-built plan shall be provided to the township planning staff as both a hard copy (paper or mylar) and as a digital/electronic document. The digital data used for such documents shall be in vector format and contain coordinate values for at least (3) identifiable boundary corners (preferably in the 1983 New Jersey State Plan Coordinate System).

17. Signage shall be provided consistent with Princeton Forrestal Center Design Requirements signage materials, size and type are subject to the review and approval of the township. All traffic signs shall be in accordance with M.U.T.C.D. and design details as identified on detail sheet.

18. The locations of all fire lanes are subject to review by the Township Fire Official.

Solar General Notes:

1. Solar panel parking canopy spacing shall be Min. 20' and Max. 32' between structures.
2. All existing curb that is damaged/disturbed shall be replaced to the nearest sound joint as required.
3. All parking space striping within the construction areas and under the solar canopy's shall be re-striped. All remaining existing striping outside of the construction area shall be re-striped by owner if needed.
4. All trees and plants not being removed as part of the proposed improvements shall be protected to the best extent possible. Any trees that are removed or damaged as a result of the proposed project shall be replaced. Any landscaping other than trees shall be replaced with like landscaping materials, subject to the review and approval of the Planning Board Engineer's Office.
5. All existing pole mounted lighting within the limits of the solar canopy system shall be removed.
6. Solar canopy columns were designed to be locate either in a parking island or in between two rows of parking. No parking stalls are expected to be lost due to the proposed improvements.



AERIAL MAP

SCALE: N.T.S.

PHOTOVOLTAIC SYSTEM DETAILS

SYSTEM SIZE (DC):	686.88 Kw
SYSTEM SIZE (AC):	565.00 Kw
DC/AC RATIO:	1.22
MODULE MODEL:	JA SOLAR, JAM72D30 545/MB 545W
MODULE RATING (STC):	540 W
TOTAL MODULE QTY:	1,272
CARPORT #1:	136 MODULES
CARPORT #2:	162 MODULES
CARPORT #3:	162 MODULES
CARPORT #4:	162 MODULES
CARPORT #5:	136 MODULES
CARPORT #6:	138 MODULES
CARPORT #7:	138 MODULES
CARPORT #8:	138 MODULES
CARPORT #9:	100 MODULES
RACKING:	CARPORT
TILT / AZIMUTH:	10° TILT @ 195.37° AZIMUTH

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

SITE PLAN-COMMUNITY MIDDLE SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
CIVIL ENGINEERS
LAND SURVEYORS
PLANNERS
LANDSCAPE ARCHITECTS
RESERVE SPECIALISTS
ARCHITECTS
FWHASSOCIATES.COM
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

Christopher P. Rosati
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY: SA	DATE: 10/28/25
DESIGNED BY: JMF	SCALE: 1"=30'
CHECKED BY: JMF	DRAWING NO.
RELEASED BY: CPR	PROJECT NO. 5696.0004
SHEET NO. 6	OF 19

L:\FWH\Projects\5696\5696000\Sheet DWGS\FWH-SITE-DEVELOPMENT-SHEET.dwg, Site Plan ALL, 12/11/2023 11:40:18 AM, ©2023 FWH Associates, P.A.

July 17, 2025 Client#:5696.0004
List of adjoiners within 200feet

Block	Lot	Owner(s)
Block 1902	Lot 23	
Block 1801	Lot 120	Kaushal, Devika 109 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 121	Batra, Naveen & Anju 111 Grovers Mill Rd Plainsboro, NJ08536
Block 1801	Lot 122	Scott, Wanda 115 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 2	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1901	Lot 4	Wagenblast, William & Kathleen 19 Cora Lane Plainsboro, NJ08536
Block 1901	Lot 5	Simmins, Stephan & Ramirez, Eliana 99 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 6	Bebenov, Kiril & Bebenova, Sonka 103 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 7	Wong, Pancras & Mao, Julie 105 Grovers Mill Road Plainsboro, NJ08536
Block 1901	Lot 8	Leibe, Jose G F & Bisangola C 107 Grovers Mill Rd Plainsboro, NJ08536
Block 1901	Lot 9	TGodosov, Angel & Todosova, Netka 46 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 10	Mogali, Vinay P & Rupa 44 Maple Avenue Plainsboro, NJ08536
Block 1901	Lot 11	Sharma, Manish Kumar & Mohini 42 Maple Ave Plainsboro, NJ08536
Block 1901	Lot 12	Rabitsky, Gregory & Kilishina, Anna 40 Maple Ave Plainsboro, NJ08536
Block 1902	Lot 1	Walker Gordon Laboratory Company PO Box 429 Plainsboro, NJ08536
Block 1902	Lot 4	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 5	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 6	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 7	Township of Plainsboro 641 Plainsboro Road Plainsboro, NJ08536
Block 1902	Lot 10	Gedrich, Ilya & Zoya 119 Grovers Mill Road Plainsboro, NJ08536
Block 1902	Lot 11	Rauh, Francis ETUX 129 Grovers Mill Road Plainsboro, NJ08536
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Director of Planning for Mercer County
PO Box 8068
Trenton, NJ08650

Comcast Cable Communications, Inc.
Andy Cortes
Area Construction Supervisor – Monmouth Cluster
751 Brick Blvd.Brick, NJ08723

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SYSTEM SIZE (AC):	1,000.00 Kw
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MODULE RATING (STC):	540 W
TOTAL MODULE QTY:	2,460
CARPORT #1:	492 MODULES
CARPORT #2:	492 MODULES
CARPORT #3:	492 MODULES
CARPORT #4:	492 MODULES
CARPORT #5:	492 MODULES
RACKING:	CARPORT
TILT / AZIMUTH:	10° TILT @ 195° AZIMUTH

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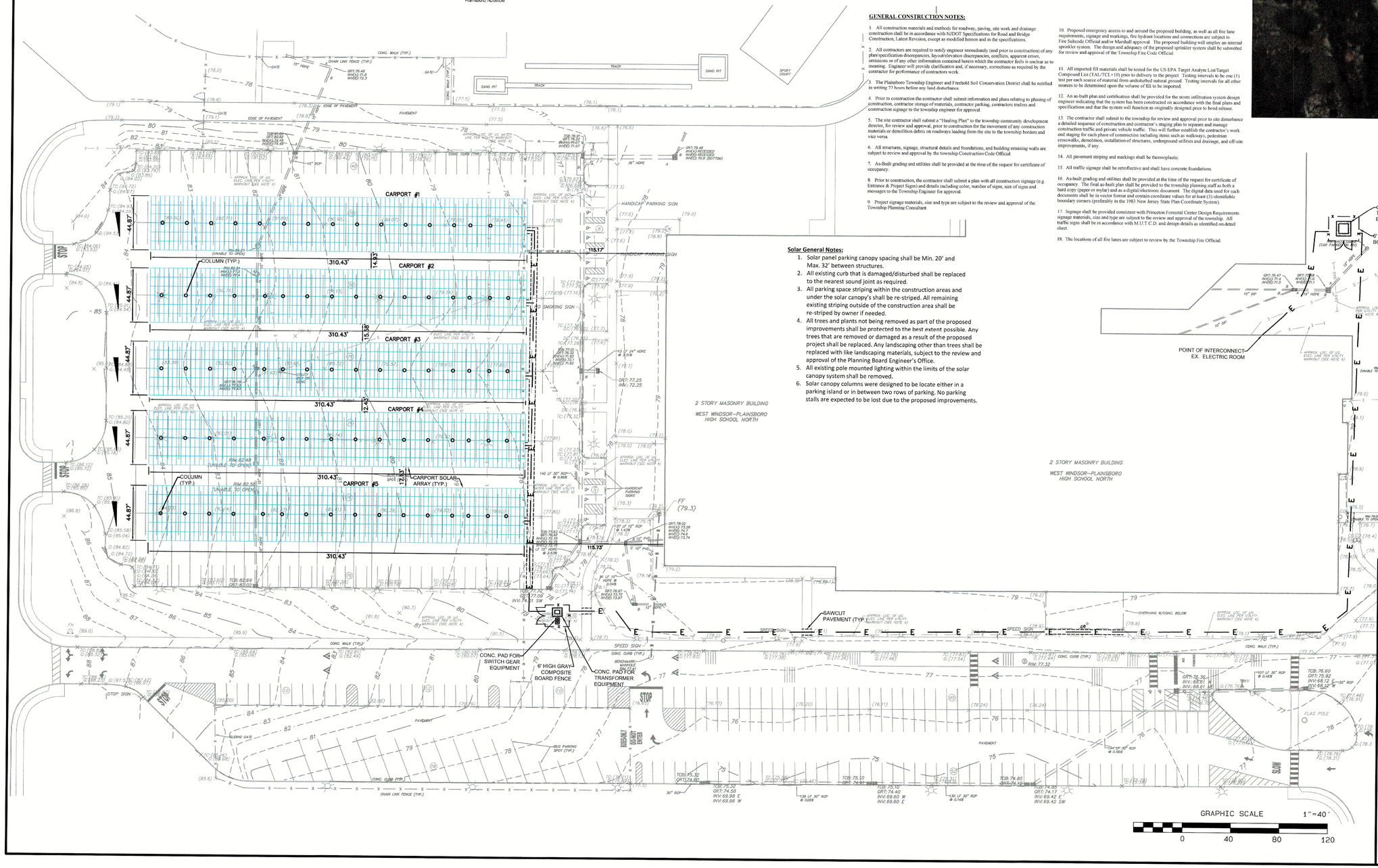


Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
- "B" INLET
- "C" INLET
- "E" INLET
- LIGHT POLE
- SIGN
- EXISTING TREE
- (103.2)× SPOT ELEVATION
- —X— CHAIN LINK FENCE
- —OHW— OVERHEAD WIRES
- STORM PIPE
- —S— SANITARY PIPE
- —W— WATER PIPE
- —E— ELECTRIC LINE
- —GAS— GAS LINE
- --99-- EXISTING CONTOUR
- SOLAR ARRAY COLUMN

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

SITE PLAN-HIGH SCHOOL NORTH

SITE PLAN

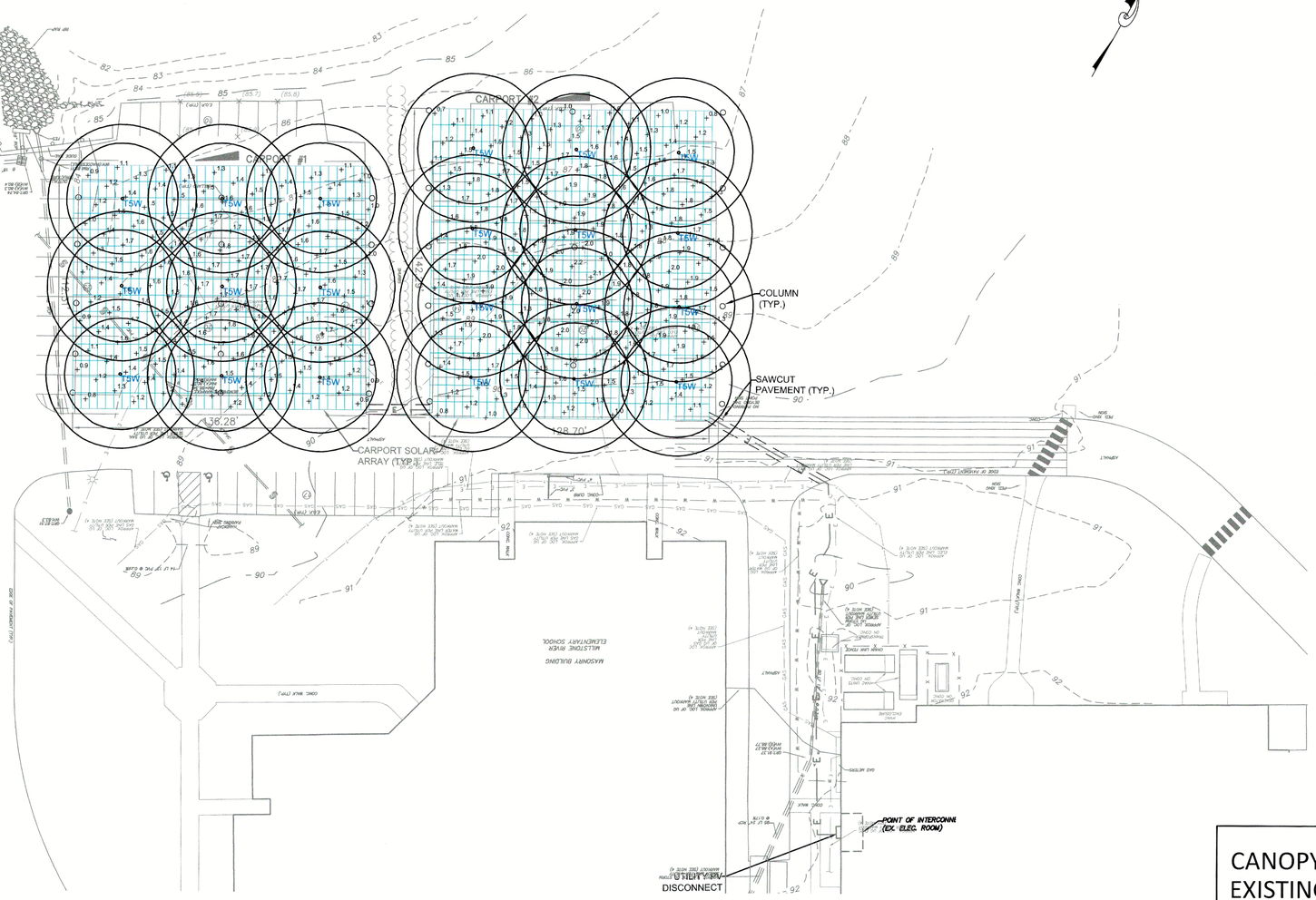
MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
Civil Engineers
Land Surveyors
Planners
Landscape Architects
Reserve Specialists
Architects
FWHASSOCIATES.COM
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

Christopher P. Rosati
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY: SA	DATE: 10/28/25
DESIGNED BY: JMF	SCALE: 1"=40'
CHECKED BY: JMF	DRAWER No.
RELEASED BY: CPR	PROJECT NO. 5696.0004
SHEET No. 7	OF 19



VCPG LED
Parking Garage

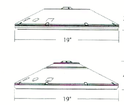
BAA BABA

Specifications

Diameter: 14"

Height: 3.75" (All dimensions)

Weight (max, with no options): 18 lbs



4-4 Candlepower (cpm) indicates to the side lamp post.

Introduction

The all-new VCPG LED (Visually Comfortable Parking Garage) Luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixelation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED delivers up to 87% in energy savings when replacing 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED luminaire provides significant maintenance savings over traditional luminaires.

Project:
Reactor:
Date:
Type:

Ordering Information

EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED

Series	LED Light Engines	Package	Color temperature	Color Rendering Index	Distribution	Voltage	Mounting
VCPG LED	V4 4-4 cpm 1W LEDs	P1 P2 P3 P4 P5 P6 P7 (with Wedge)	30K 3000K 40K 4000K 50K 5000K	70CRI 70 CRI	T1M Type 1, medium T2M Type 1, forward throw T3M Type 3, medium T4M Type 4, wide T5M Type 5, very wide T5W Type 5 wide LENS Clear Lens	MVOLT 347 480	For ordering with fixture: SRM Surface mount (24 lbs) (gray finish) YK Yoke/trunnion mount (24 lbs) (gray finish) ARM Arm mount (24 lbs) (gray finish)

Shipped separately: PM Pendant mount (specify stem length and color of fitting) (as shown in image) (18 lbs) WG Wire guard (17 lbs)

Options		Finish (required)	Packaging
Shipped installed: DL1 photocell, 3000K (1 lamp)*; DL2 photocell, 5000K (1 lamp)*; ETDMC Emergency battery backup, AC-to-battery, constant dim (3.0 lbs, 10.8 W) (25°C/77°F, 40°C ambient)*; ETDMRC Emergency battery backup, AC-to-battery, constant dim, remote mounted (25°C/77°F, 40°C ambient)*; ETDMHC Emergency battery backup, AC-to-battery, constant dim (3.0 lbs) (25°C/77°F, 40°C ambient)*; HA High ambient (50°C/122°F)*; SF Single fuse (120V, 277V, 347V)*; DF Double fuse (120V, 277V, 347V)*; SPD10KV Surge protective device 10KV; LBS3K Lower base shipped (3K); LBS5K Lower base shipped (5K); LBS3KM Lower base shipped (3K) (Medium base); LBS5KM Lower base shipped (5K) (Medium base); DMG 0-10V dimming wires shipped outside fixture (for use with an external control, not to be used with motion sensor options); BS Bird spikes	**Standalone Sensors/Controls**: BL Bluetooth Low Energy (BLE) lighting control (ordered with fixture)*; NLTAIR2 NLTAIR2 wireless mesh lighting control (ordered with fixture)*; PIR Motion sensor, 180° coverage, 30' mounting height, 20' detection range (3.0 lbs, 0.75 W)*; PIR1FC3V Motion sensor, 180° coverage, 15' mounting height, 8' detection range (3.0 lbs, 0.75 W)*; **Networked Sensors/Controls**: NEMA10 PIR Motion sensor, 180° coverage, 30' mounting height, 20' detection range (3.0 lbs, 0.75 W)*; NEMA10 PIR1FC3V Motion sensor, 180° coverage, 15' mounting height, 8' detection range (3.0 lbs, 0.75 W)*; NEMA10 PIR9 Motion sensor, 360° coverage, 9' mounting height, 9' detection range (3.0 lbs, 0.75 W)*; NEMA10 PIR9FC3V Motion sensor, 360° coverage, 9' mounting height, 9' detection range (3.0 lbs, 0.75 W)*;	**Shipped separately**: NLG Nightlight; BBS Bird spikes; HS House side shield; BDS Bird shroud	BK Black; BRZ Bronze; SVG Silver; WHT White; DDBXD Dark bronze; DDBGD Dark green; DDBTD Dark textured black; DNAXD Natural aluminum; DWHXD Textured white	(blank) Box (standard); CD Cardboard divider (2 lbs); PK Packaging for shipping outside fixture (1 lbs); SH Shipping shroud (1 lbs); WR Wire guard (1 lbs)

*Not available with motion sensor options.

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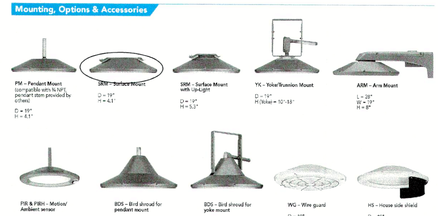
COMMERCIAL OUTDOOR

Mounting, Options & Accessories



FEATURES & SPECIFICATIONS

INTENDED USE
The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for non-commercial installations and dusk/dawn parking garage operations. It is designed to meet or exceed most recommended illuminance criteria when installed as a direct replacement of metal HID parking garage luminaires. Its modern daytime and aesthetics also make it appealing for indoor low-bay applications.

CONSTRUCTION
Tri-segment die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP65) and is suitable for wet/damp application.

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

OPTICS
Light guide technology provides a diffused light source, reducing glare from direct views of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded micro prismatic acrylic lenses and back reflectors provides five different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light over the ceiling, thus reducing the cave effect.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal core circuit boards to maximize heat dissipation and promote long life (up to 285,000K hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 kV surge protection (IEC 61000-4-5 Class 3 Level). Optional 10kV/10kA Surge protection device is installed within the luminaire which meets Surge Category C low operation (per ANSI/IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

INSTALLATION
Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount junction box using a quick-mount kit (included). Kit contains galvanized steel luminaire and outlet box plates and a full seal gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and mounting kit are rated for wet locations. Also available with a yoke/trunnion mount option with 3/4" NPT provision for flexible conduit entry (conduit by others). Height can be adjusted from 10-18". Supply leads are 36" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 2.5 G vibration load rating per ANSI C136.31.

LISTINGS
UL listed for U.S. and Canadian standards. Rated for outdoor applications. IP65 options are rated for wet location. IK08 Rated. Rated for 40°C maximum ambient. Designlights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

GOVERNMENT PROCUREMENT
BAA – Buy American Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America Buy America Act.
Please refer to www.acuitybrands.com/support/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/terms-and-conditions

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

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COMMERCIAL OUTDOOR

POINT TO POINT LIGHTING CALCULATION

INDIVIDUAL LIGHT FIXTURE CONTOURS = 1.0 FC., 0.5 FC., 0.2 FC.

Point to Point Calculation						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Carpot #1 calc zone	+	1.4 fc	1.8 fc	0.8 fc	2.3:1	1.8:1
Carpot #2 calc zone	+	1.6 fc	2.2 fc	0.9 fc	3.1:1	2.3:1

Lighting Schedule

Symbol	Label	QTY	Mounting Height	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage
○	T5W	21	varies	VCPG LED P1 35K T5W MVOLT	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 3500K, T5W OPTIC TYPE	1	3681	0.9	26.57

1. Installation of light fixtures shall be per manufacturer's recommendations.
2. Lights shall be ceiling mounted.
3. Fixtures shall be controlled by dusk to dawn photocell at control box to control the daily operation of the canopy lighting.
4. Individual light fixture contours = 1.0 fc, 0.5 fc

CANOPY LIGHTS TO CORRESPOND WITH EXISTING SITE LIGHT SCHEDULE

GENERAL NOTES

1. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED. SEED MIXTURES, SPECIFICATIONS, AND GRASS TYPES SHALL MEET TOWNSHIP REQUIREMENTS PRIOR TO INSTALLATION.
2. LIGHTING CONTRACTOR SHALL VERIFY ALL UTILITIES (PROPOSED AND EXISTING) PRIOR TO INSTALLATION. IF DISCREPANCIES OCCUR, THE ENGINEER'S OFFICE SHALL BE NOTIFIED IMMEDIATELY.
3. SUBSTITUTION AND FINAL LOCATION OF ALL LIGHTING IS SUBJECT TO TOWNSHIP'S APPROVAL.
4. IF DISCREPANCIES OCCUR IN THE SCHEDULE QUANTITIES, THE PLAN SHALL SUPERSEDE.
5. SEE THIS SHEET FOR LIGHTING SCHEDULE, CALCULATIONS, NOTES, AND DETAILS.

GRAPHIC SCALE 1"=30'

0 30 60 90

THIS PLAN TO BE USED FOR LIGHTING PURPOSES ONLY.

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

LIGHTING PLAN & DETAILS-MILLSTONE RIVER ELEMENTARY SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
Civil Engineers
Land Surveyors
Planners
Landscape Architects
Reserve Specialists
Architects
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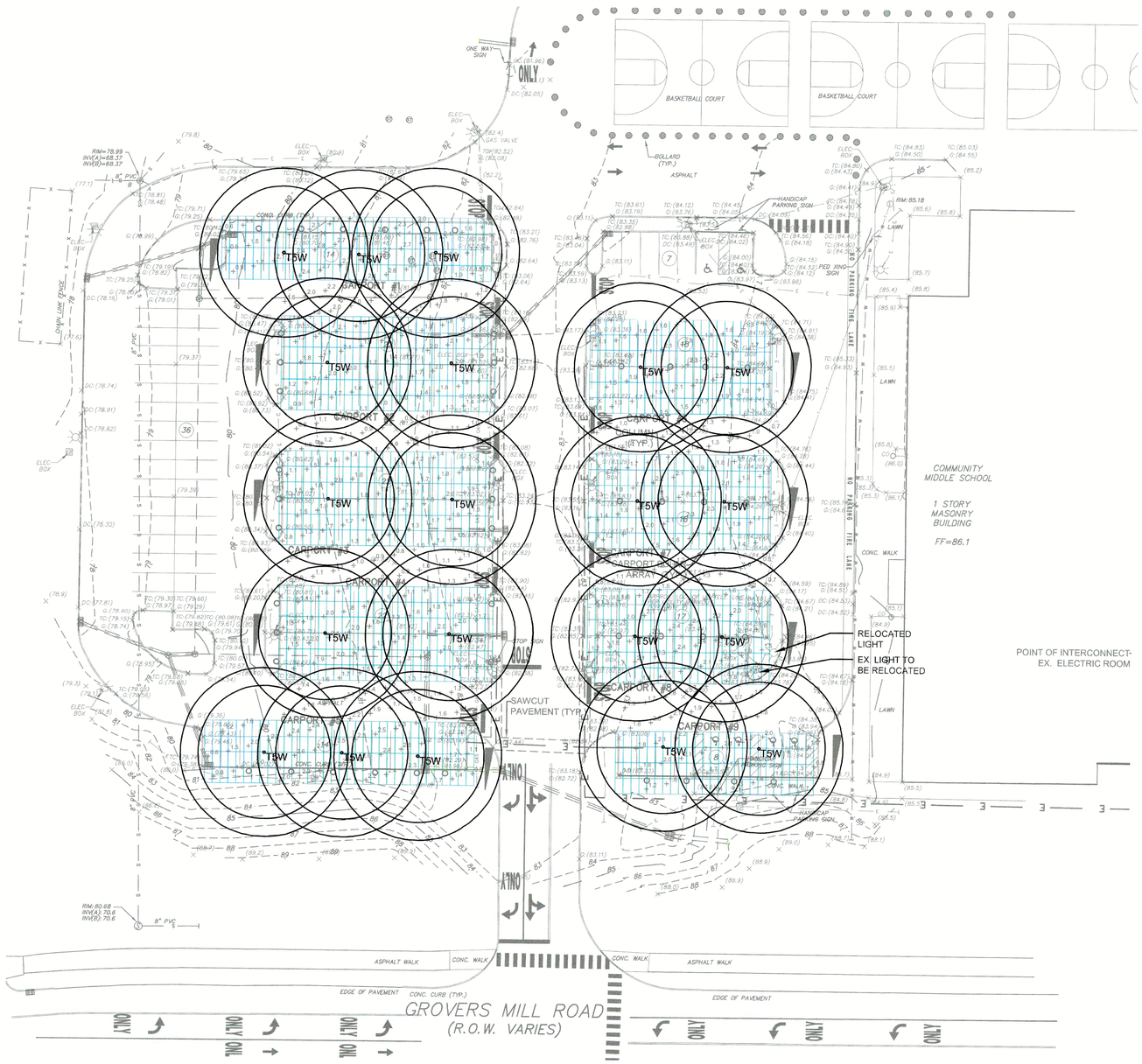
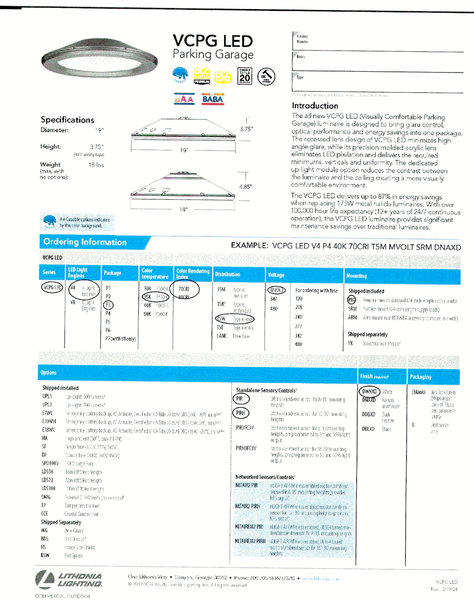
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

Leroy G. Webb Jr.
Licensed Landscape Architect
N.J. Lic. No. AS00149
Professional Planner N.J. Lic. No. 4006

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWER NO.
RELEASED BY LGW	PROJECT NO. 5696.0004
SHEET NO. 8	OF 19





POINT TO POINT LIGHTING CALCULATION

INDIVIDUAL LIGHT FIXTURE CONTOURS = 1.0 FC, 0.5 FC., 0.2 FC.

Point to Point Lighting Calculation

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Array 1-5	+	1.6 fc	2.8 fc	0.6 fc	4.7:1	2.7:1
Array 6-9	+	1.6 fc	2.4 fc	0.6 fc	4.0:1	2.7:1

Lighting Schedule

Symbol	Label	QTY	Mounting Height	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage
◯	T5W	20	15'	VCPG LED P3 35K T5W MVOLT	VCPG LED WITH P3 - PERFORMANCE PACKAGE, 3500K, T5W OPTIC TYPE	1	5970	0.9	43.37

1. Installation of light fixtures shall be per manufacturer's recommendations.
2. Lights shall be ceiling mounted.
3. Fixtures shall be controlled by dusk to dawn photocell at control box to control the daily operation of the canopy lighting.
4. Individual light fixture contours = 1.0 fc, 0.5 fc

CANOPY LIGHTS TO CORRESPOND WITH EXISTING SITE LIGHT SCHEDULE

GENERAL NOTES

1. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED. SEED MIXTURES, SPECIFICATIONS, AND GRASS TYPES SHALL MEET TOWNSHIP REQUIREMENTS PRIOR TO INSTALLATION.
2. LIGHTING CONTRACTOR SHALL VERIFY ALL UTILITIES (PROPOSED AND EXISTING) PRIOR TO INSTALLATION. IF DISCREPANCIES OCCUR, THE ENGINEER'S OFFICE SHALL BE NOTIFIED IMMEDIATELY.
3. SUBSTITUTION AND FINAL LOCATION OF ALL LIGHTING IS SUBJECT TO TOWNSHIP'S APPROVAL.
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GRAPHIC SCALE 1"=30'

0 30 60 90

THIS PLAN TO BE USED FOR LIGHTING PURPOSES ONLY.

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

LIGHTING PLAN & DETAILS-COMMUNITY MIDDLE SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

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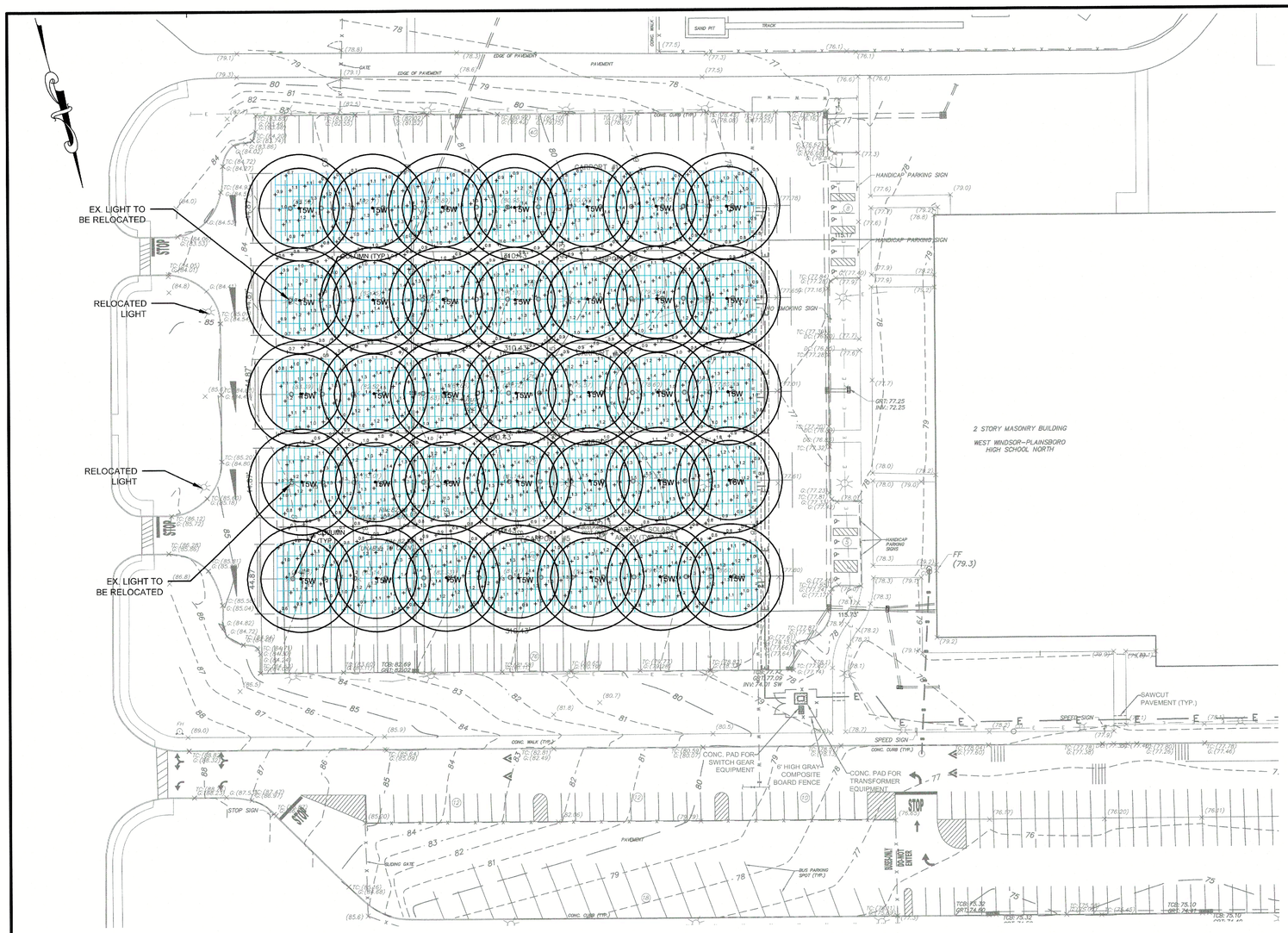


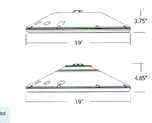
VCPG LED
Parking Garage

Specifications

Diameter: 19"

Height: 3.75" (30" with a hub)

Weight (max. with no options): 18 lbs



A Gasdin option indicated by this color background.

Introduction

The all new VCPG LED (Visually Comfortable Parking Garage) Luminaire is designed to bring glare control, optical performance and energy savings into one package. The recessed lens design of VCPG LED minimizes high angle glare, while its precision molded acrylic lens eliminates LED pixilation and delivers the required minimums, verticals and uniformity. The dedicated up-light module option reduces the contrast between the luminaire and the ceiling creating a more visually comfortable environment.

The VCPG LED die-versus up to 87% in energy savings when upcycling 175W metal halide luminaires. With over 100,000 hour life expectancy (12+ years of 24/7 continuous operation), the VCPG LED Luminaire provides significant maintenance savings over traditional luminaires.

Ordering Information

EXAMPLE: VCPG LED V4 P4 40K 70CRI T5M MVOLT SRM DNAXD

VCPG LED

Series	LED Light Engines	Package	Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
VCPG LED	V4 4 - 4 LEDs V6 6 - 6 LEDs	P1 P1 P7 P7 P3 P3 P4 P4 P5 P5 P6 P6 P7 with Wedge	30K 3000K 40K 4000K 50K 5000K	70CRI 70 CRI	T1M Type I, Medium T1W Type I, Wide T2M Type II, Medium T2W Type II, Wide T3M Type III, Medium T3W Type III, Wide T4M Type IV, Medium T4W Type IV, Wide T5M Type V, Medium T5W Type V, Wide	MVOLT 347-480 V 120 120 V 208 208 V 240 240 V 277 277 V 347 347 V 480 480 V	Shipped included SRM Surface/Round Mount PBM Pendant Mount (compatible with NPS pendant stem provided by others) Shipped separately YK Yoke/Trunnion Mount

Options		Finish (required)	Packaging
Shipped installed NPS1 1-in NPS (2 3/8" O.D.) stem for pendant mounting NPS2 2-in NPS (2 3/8" O.D.) stem for pendant mounting BYPC Bypass Pole Cap (Accepts Certified Pole Diameter 3.5" O.D.) BYPCRP Bypass Pole Cap (Accepts Certified Pole Diameter 3.5" O.D.) with Round Plate HA High Ambient 50°C (122°F) Operation SF Single Fuse (120, 277, 347V) DF Double Fuse (208, 240, 480V) SPD10KV 10KV Surge Protection LD24 24in (610mm) Length LD32 32in (813mm) Length LD38 38in (965mm) Length DMG 0-10V Dimming Driver EF Emergency Battery Pack CCI Control Connection **Shipped separately** WG Wire Guard BDS Bird Deterrent HS House Side Shield BSW Bird Spikes	**Standalone Sensors/Controls** PIR Motion Sensor (mounted at 8-15' mounting height) PIR1FC3V Motion Sensor (mounted at 8-15' mounting height) PIR1FC3V Motion Sensor (mounted at 8-15' mounting height) & Photocell (mounted at 10-15' mounting height) PIRHN Motion Sensor (mounted at 15-30' mounting height) & Photocell (mounted at 10-15' mounting height) **Networked Sensors/Controls** NEMA7 PIR NEMA 7 Motion Sensor (mounted at 8-15' mounting height) & Photocell (mounted at 10-15' mounting height) NEMA7 PIR1 NEMA 7 Motion Sensor (mounted at 8-15' mounting height) & Photocell (mounted at 10-15' mounting height) NEMA7 PIR2 NEMA 7 Motion Sensor (mounted at 8-15' mounting height) & Photocell (mounted at 10-15' mounting height) NEMA7 PIR3 NEMA 7 Motion Sensor (mounted at 8-15' mounting height) & Photocell (mounted at 10-15' mounting height)	DDBXD Dark Bronze DDBTX Textured Dark Bronze DDBSD Dark Bronze Sandcast DBLXD Black	Shipped individually packaged Shipped in 2 pack Shipped in 4 pack Shipped in 6 pack Shipped in 8 pack Shipped in 10 pack Shipped in 12 pack Shipped in 14 pack Shipped in 16 pack Shipped in 18 pack Shipped in 20 pack Shipped in 22 pack Shipped in 24 pack Shipped in 26 pack Shipped in 28 pack Shipped in 30 pack Shipped in 32 pack Shipped in 34 pack Shipped in 36 pack Shipped in 38 pack Shipped in 40 pack Shipped in 42 pack Shipped in 44 pack Shipped in 46 pack Shipped in 48 pack

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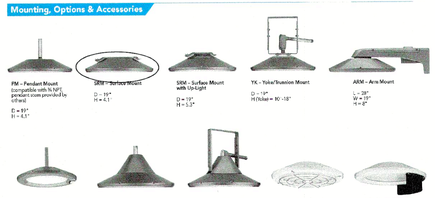
COMMERCIAL OUTDOOR

Mounting, Options & Accessories



FEATURES & SPECIFICATIONS

INTENDED USE

The visually comfortable optics, energy savings, and long life of the VCPG LED Parking Garage luminaire make it an ideal choice for new construction installations and retrofit parking garage opportunities. It is designed to meet or exceed recommended illuminance criteria when installed as a direct replacement of most HID parking garage luminaires. Its modern deco form and aesthetics also make it appealing for indoor low-bay applications.

CONSTRUCTION

Single piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through convective and conveccive cooling. The LED driver is separated from the heat generating light engines and mounted in direct contact with the casting to promote low operating temperatures, higher lumen maintenance and long life. The housing is completely sealed against moisture and environmental contaminants (IP66) and is suitable for hose-down applications.

FINISH

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

OPTICS

Light guide technology provides a diffused light source, reducing glare from direct view of the LEDs. The light source is recessed into the luminaire, further reducing the high angle glare from the luminaire. A combination of precision molded resin prismatic acrylic lenses and frack reflectors provide two different photometric distributions tailored specifically to parking garage applications. Up-light option comes with a dedicated light engine and custom optic designed to efficiently spread light on to the ceiling, thus reducing the core effect.

ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to 100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 6.0 KV surge rating. When ordering the SPD10KV option, a separate 10KV EMA surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2). Luminaire is 0-10V dimmable down to 10% or lower.

INSTALLATION

Standard configuration accepts a rigid or free-swinging 3/4" NPT stem for pendant mounting. The surface mount option attaches to a 4x4" recessed or surface mount outlet box using a quick-mount kit (included). Kit contains galvanized steel luminaire and outlet box plates and a full gap gasket. Kit has an integral mounting support that allows the luminaire to hinge down for easy electrical connections. Luminaire and mounting kit are rated for 2G vibration per ANSI C136.31 when installed in orientation with 3/4" NPT pipe and stem. Flexible conduit entry (conduit by others) height can be adjusted from 10"-18". Supply leads are 24" in length as standard. Longer supply leads are available as additional options. Design can withstand up to a 3.0G vibration load rating per ANSI C136.31.

LISTINGS

Certified to U.S. and Canadian standards. IP66 rated for outdoor applications. DLC options are rated for wet location, IK08 rated. Rated for -40°C minimum ambient. Design Lights Consortium® (DLC) Premium qualified product and DLC qualified product, but all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which version is qualified.

GOVERNMENT PROCUREMENT

BAA – Buy American Act: Product qualifies as a domestic and product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under BAA Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this spec section shall create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty-terms-and-conditions

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

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COMMERCIAL OUTDOOR

POINT TO POINT LIGHTING CALCULATION

INDIVIDUAL LIGHT FIXTURE CONTOURS = 1.0 FC, 0.5 FC., 0.2 FC.

POINT TO POINT LIGHTING CALCULATION						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	1.1 fc	1.5 fc	0.5 fc	3.0:1	2.2:1

LIGHTING SCHEDULE

Symbol	Label	QTY	MOUNTING HEIGHT	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage
○	T5W	35	15'	VCPG LED P1 35K T5W MVOLT	VCPG LED WITH P1 - PERFORMANCE PACKAGE, 3500K, T5W OPTIC TYPE	1	3681	0.9	26.57

1. Installation of light fixtures shall be per manufacturer's recommendations.
2. Lights shall be ceiling mounted.
3. Fixtures shall be controlled by dusk to dawn photocell at control box to control the daily operation of the canopy lighting.
4. Individual light fixture contours = 1.0 fc, 0.5 fc

CANOPY LIGHTS TO CORRESPOND WITH EXISTING SITE LIGHT SCHEDULE

GENERAL NOTES

1. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED. SEED MIXTURES, SPECIFICATIONS, AND GRASS TYPES SHALL MEET TOWNSHIP REQUIREMENTS PRIOR TO INSTALLATION.
2. LIGHTING CONTRACTOR SHALL VERIFY ALL UTILITIES (PROPOSED AND EXISTING) PRIOR TO INSTALLATION. IF DISCREPANCIES OCCUR, THE ENGINEER'S OFFICE SHALL BE NOTIFIED IMMEDIATELY.
3. SUBSTITUTION AND FINAL LOCATION OF ALL LIGHTING IS SUBJECT TO TOWNSHIP'S APPROVAL.
4. IF DISCREPANCIES OCCUR IN THE SCHEDULE QUANTITIES, THE PLAN SHALL SUPERSEDE.
5. SEE THIS SHEET FOR LIGHTING SCHEDULE, CALCULATIONS, NOTES, AND DETAILS.

GRAPHIC SCALE 1"=40'

0 40 80 120

THIS PLAN TO BE USED FOR LIGHTING PURPOSES ONLY.

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

LIGHTING PLAN & DETAILS-HIGH SCHOOL NORTH

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

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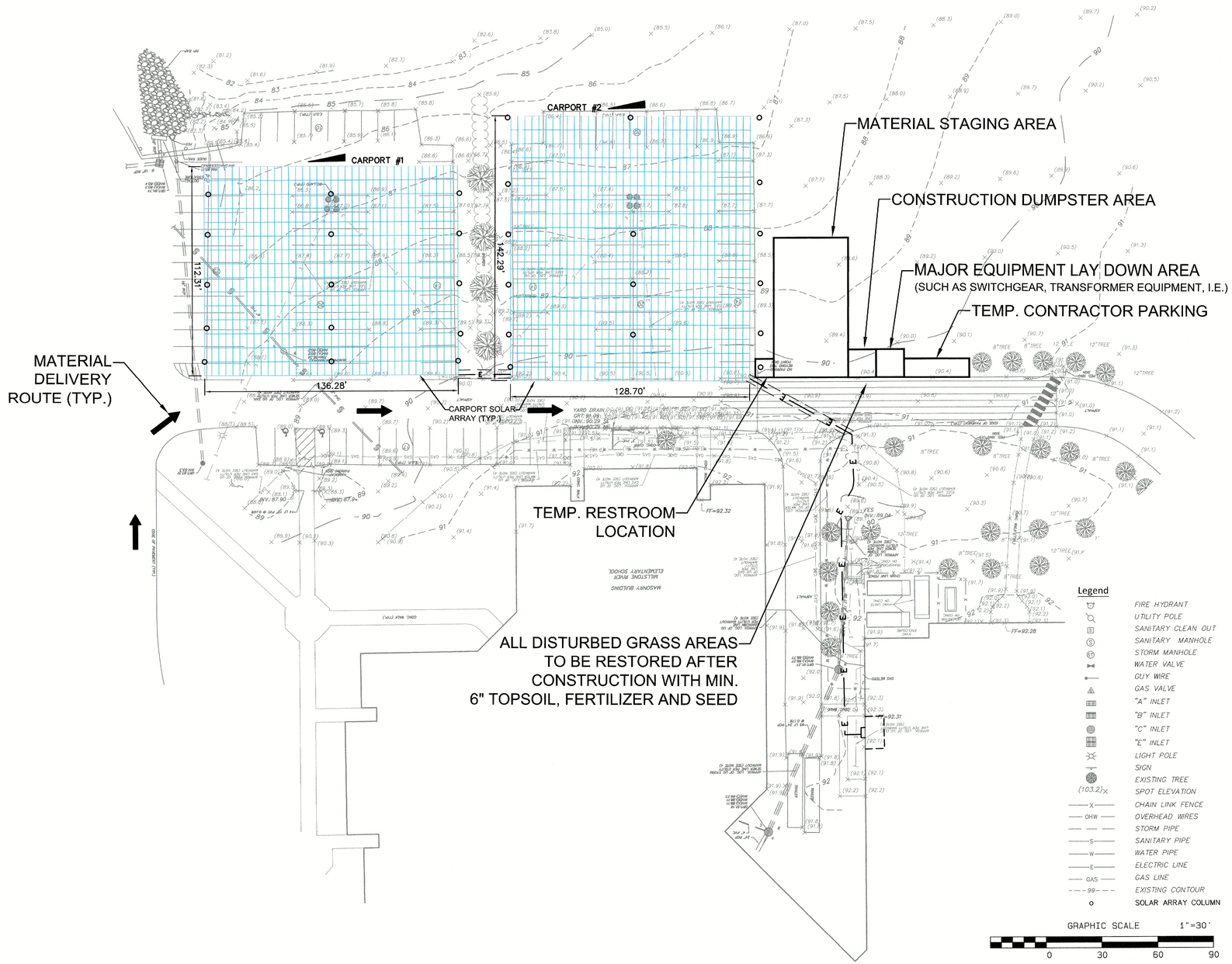
Leroy G. Webb Jr.
Licensed Landscape Architect
N.J. Lic. No. AS00149
Professional Planner N.J. Lic. No. 4006

DRAWN BY CSM	DATE 07/08/25
DESIGNED BY JMF	SCALE 1"=40'
CHECKED BY JMF	DRAWER NO.
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 10	OF 19

STAGING NOTES:

1. Construction areas will be broken into multiple phased sections, each approximately one-third of the total lot.
2. Only the active construction phase will be barricaded at any given time to maintain partial lot availability and emergency access.
3. All concrete work and drilling will occur during first phase of construction.
4. Safety fencing (orange or chainlink) with "Construction Zone – Authorized Personnel Only" shall be provided around work areas.
5. Emergency access lanes must be maintained at all times during construction.
6. Delivery vehicles will use the designated delivery route as indicated on the Site Plans. All deliveries requested to non – peak school hours (7:00 – 7:45 AM or after 2:45 PM)
7. Staging area / material laydown areas to be secured with temporary chain link fence with appropriate "keep-out" signage.
8. One ADA-compliant portable restroom will be provided onsite within the designated staging area.
9. There will be no idling or staging of trucks in an active school drop-off zone.
10. Construction management will have daily communication with school facility manager regarding traffic impacts or changes to access during construction.



DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	

STAGING PLAN-MILLSTONE RIVER ELEMENTARY SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
CIVIL ENGINEERS
LAND SURVEYORS
PLANNERS
LANDSCAPE ARCHITECTS
RESERVE SPECIALISTS
ARCHITECTS
FWHASSOCIATES.COM
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

Christopher P. Rosati
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWING NO.
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 11 OF 19	

STAGING NOTES:

1. Construction areas will be broken into multiple phased sections, each approximately one-third of the total lot.
2. Only the active construction phase will be barricaded at any given time to maintain partial lot availability and emergency access.
3. All concrete work and drilling will occur during first phase of construction.
4. Safety fencing (orange or chainlink) with "Construction Zone – Authorized Personnel Only" shall be provided around work areas.
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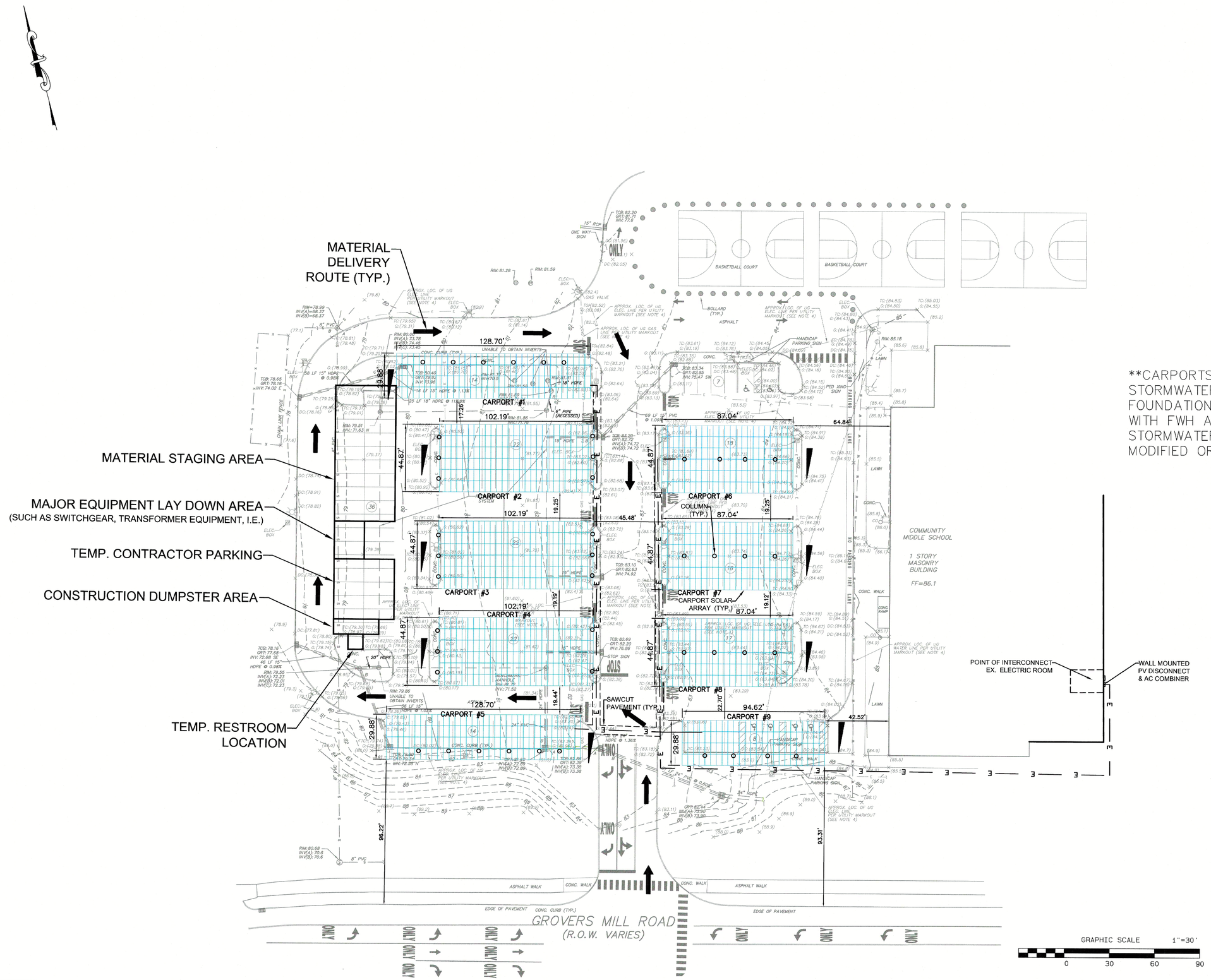

**CARPORTS #2, #3 & #4 SPAN OVER AN EXISTING STORMWATER RECHARGE SYSTEM. COLUMN FOUNDATION LOCATIONS MUST BE COORDINATED WITH FWH ASSOCIATES PRIOR TO CONSTRUCTION. STORMWATER RECHARGE SYSTEM MAY NOT BE MODIFIED OR COMPROMISED.

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STAGING PLAN-COMMUNITY MIDDLE SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
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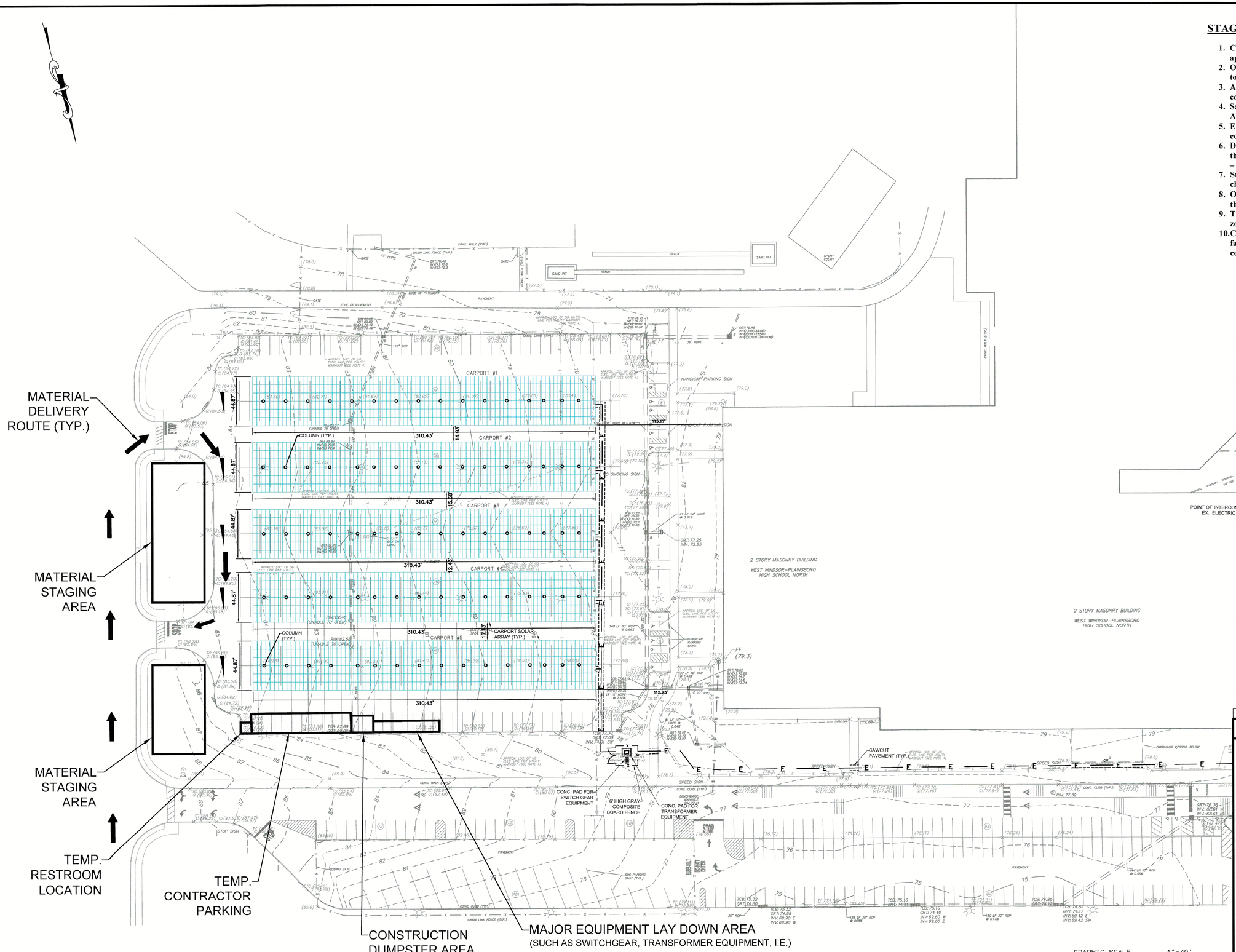
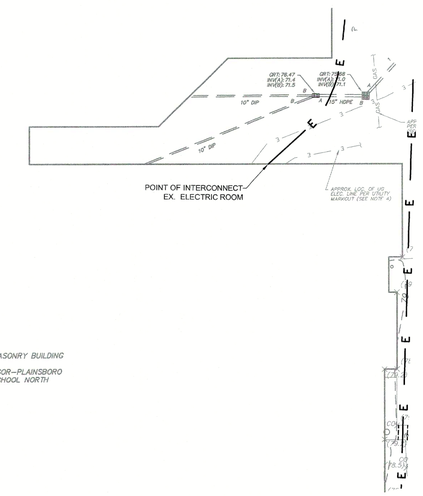
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 12	OF 19

STAGING NOTES:

1. Construction areas will be broken into multiple phased sections, each approximately one-third of the total lot.
2. Only the active construction phase will be barricaded at any given time to maintain partial lot availability and emergency access.
3. All concrete work and drilling will occur during first phase of construction.
4. Safety fencing (orange or chainlink) with "Construction Zone – Authorized Personnel Only" shall be provided around work areas.
5. Emergency access lanes must be maintained at all times during construction.
6. Delivery vehicles will use the designated delivery route as indicated on the Site Plans. All deliveries requested to non – peak school hours (7:00 – 7:45 AM or after 2:45 PM)
7. Staging area / material laydown areas to be secured with temporary chain link fence with appropriate "keep-out" signage.
8. One ADA-compliant portable restroom will be provided onsite within the designated staging area.
9. There will be no idling or staging of trucks in an active school drop-off zone.
10. Construction management will have daily communication with school facility manager regarding traffic impacts or changes to access during construction.





Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
- "B" INLET
- "C" INLET
- "E" INLET
- LIGHT POLE
- SIGN
- EXISTING TREE
- (103.2)X SPOT ELEVATION
- —X— CHAIN LINK FENCE
- —OHW— OVERHEAD WIRES
- STORM PIPE
- —S— SANITARY PIPE
- —W— WATER PIPE
- —E— ELECTRIC LINE
- —GAS— GAS LINE
- 99 EXISTING CONTOUR
- SOLAR ARRAY COLUMN

GRAPHIC SCALE 1"=40'
0 40 80 120

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	

STAGING PLAN-HIGH SCHOOL NORTH

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

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Civil Engineers
Land Surveyors
Planners
Landscape Architects
Reserve Specialists
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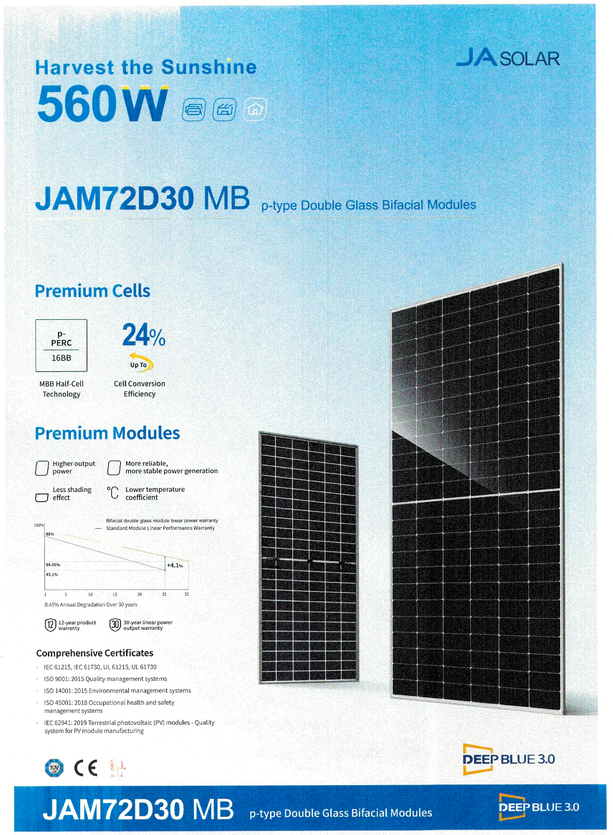
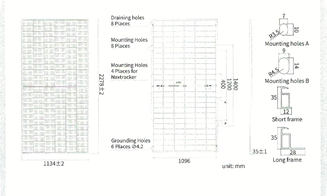
SHEET NO. 13	OF 19





MECHANICAL PARAMETERS

Cell	Mono
Weight	31.8kg
Dimensions	2278±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-35/MC4-EVO2
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet, 589pcs/40HQ Container

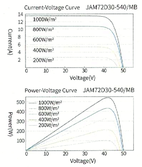
Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB	JAM72D30 -550/MB	JAM72D30 -555/MB	JAM72D30 -560/MB
Rated Maximum Power(Pmax) [W]	535	540	545	550	555	560
Open Circuit Voltage (Voc) [V]	49.45	49.60	49.75	49.90	50.02	50.15
Maximum Power Voltage(Vmp) [V]	41.47	41.64	41.80	41.96	42.11	42.27
Short Circuit Current(Isc) [A]	13.79	13.86	13.93	14.00	14.07	14.14
Maximum Power Current(Imp) [A]	12.90	12.97	13.04	13.11	13.18	13.25
Module Efficiency [%]	20.7	20.9	21.1	21.3	21.5	21.7
Power Tolerance	0~+3%					
Temperature Coefficient of Isc(α_Isc)	+0.045%/°C					
Temperature Coefficient of Voc (β_Voc)	-0.275%/°C					
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/°C					
STC	Irradiance 1000W/m², cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

CHARACTERISTICS



ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D30 -535/MB	JAM72D30 -540/MB	JAM72D30 -545/MB	JAM72D30 -550/MB	JAM72D30 -555/MB	JAM72D30 -560/MB
Rated Max.Power(Pmax) [W]	572	578	583	589	594	599
Open Circuit Voltage(Voc) [V]	49.80	49.93	50.03	50.21	50.31	50.45
Max Power Voltage(Vmp) [V]	41.47	41.65	41.78	41.95	42.11	42.26
Short Circuit Current(Isc) [A]	14.76	14.83	14.91	14.98	15.05	15.13
Max Power Current(Imp) [A]	13.80	13.88	13.95	14.03	14.10	14.18
Irradiation Ratio (rear/front)	10%					

* For Nextracker installations, maximum static load please take corresponding approval letter between JA Solar and Nextracker for reference.
** Bifaciality=Pmax, rear/Rated Pmax, front

OPERATING CONDITIONS

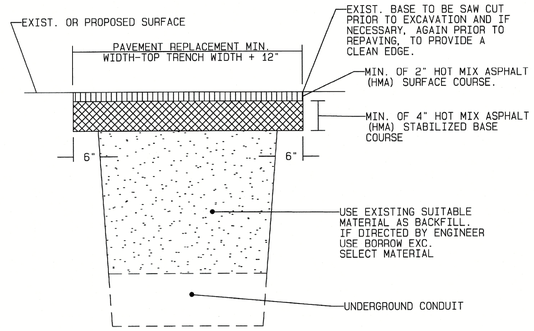
Maximum System Voltage	1500V DC
Operating Temperature	-40℃~+85℃
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	5400Pa(112 lb/ft²)
Maximum Static Load, Back	2400Pa(50 lb/ft²)
NOCT	45±2℃
Bifaciality*	70%±10%
Safety Class	Class II
Fire Performance	UL Type 29/Class C

JA SOLAR

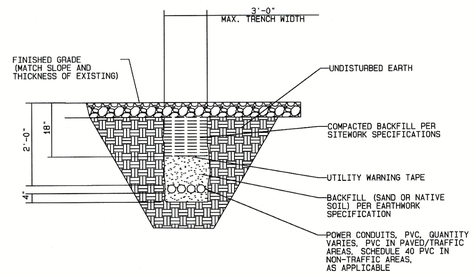
Headquarters No.8 Building, Nundle Center, No.1 Courtyard, East Auto Museum Road, Fengtai District, Beijing
Tel: +86 10 6361 1888 Fax: +86 10 6361 1999
E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com

Version No.: Global-EN-20250320A

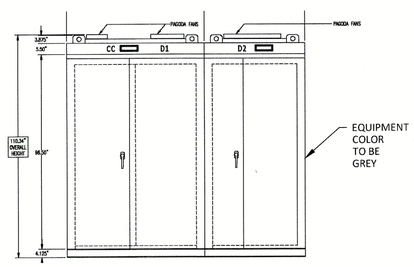
SOLAR PANEL DETAIL
SCALE: N.T.S.



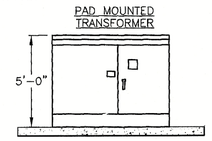
STANDARD PAVEMENT RESTORATION DETAIL
SCALE: N.T.S.



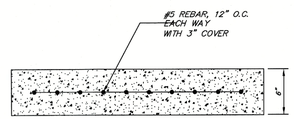
UNDERGROUND CONDUIT TRENCH DETAIL



SWITCHBOARD EQUIPMENT
SCALE: N.T.S.



TRANSFORMER ELEVATION
SCALE: N.T.S.



NOTE:
1. *SEE PLANS FOR ALIGNMENT AND GRADING AT EACH STRUCTURE*
2. *REFER TO PLANS BY ELECTRICAL ENGINEER FOR THE REQUIRED DIMENSIONS OF CONCRETE PADS.*
3. *CONCRETE PADS, DUE TO SITE CONDITIONS, COULD HAVE 3—4 FOOT FOUNDATION DEPTHS. ACTUAL FOUNDATION DEPTHS TO BE DECIDED AT TIME OF CONSTRUCTION.*

CONCRETE EQUIPMENT PAD DETAIL
SCALE: N.T.S.

solis | 20
ussales@solisinverters.com

S6-GC(25-60)K-US

Solis Three Phase Grid-Tied Inverters

Efficient
- Max. efficiency 98.8% (CEC efficiency 98.3%)
- String current up to 20A
- 2/4 MPPT design, supports multiple orientation system design
- Nighttime PID recovery function (optional)
- Wide voltage range and low startup voltage

Safe
- Type 4X, C5 Anti-Corrosion Level
- AFCI protection, proactively reduces fire risk
- Intelligent fan-cooling
- Integrated module-level rapid shutdown transmitter
- High quality components from globally recognized suppliers
- Integrated DC and AC disconnects

Smart
- Equipped with external power control interface, supporting zero output power control
- Intelligent string monitoring, smart I-V curve scan
- Supports RS485, Ethernet, WiFi, Cellular
- Scan to register on SolisCloud, supports remote upgrade and control

Economic
- > 1.5 DC/AC ratio
- Supports high power modules for lower installation costs
- Separable AC wiring box

Models:

S6-GC25K-US / S6-GC33K-US
S6-GC36K-US / S6-GC40K-US
S6-GC50K-US / S6-GC60K-US

Ordering: S6-GC(25-60)K-US
- APST (APS MLRSD Transmitter)
- RSS (Tigo MLRSD Transmitter)
- NEPT (NEP MLRSD Transmitter)

DATASHEET — S6-GC(25-60)K-US

Models	25K	33K	36K	40K	50K	60K
Input DC						
Max. Input voltage	1000 V					
Rated voltage	720 V					
Start-up voltage	180 V					
MPPT voltage range	180 - 1000 V					
Max. Input current	40 A / 40 A / 40 A			4 × 40 A		
Max. short circuit current	63 A / 63 A / 63 A			4 × 63 A		
MPPT number / Max. Input strings number	3 / 6			4 / 8		
Output AC						
Rated output power	25 kW	33 kW	36 kW	40 kW	50 kW	60 kW
Max. apparent output power	25 kVA	33 kVA	36 kVA	40 kVA	50 kVA	60 kVA
Max. output power	25 kW	33 kW	36 kW	40 kW	50 kW	60 kW
Rated grid voltage	3Ω/PE, 480 V					
Rated grid frequency	60 Hz					
Max. output current	30.1 A	39.7 A	43.3 A	48.1 A	60.1 A	72.2 A
Power factor	> 0.99 (0.8 leading - 0.8 lagging)					
THDi	< 3%					
Efficiency						
Max. efficiency	98.8%					
CEC efficiency	98.3%					
Protection						
DC reverse-polarity protection	Yes					
Short circuit protection	Yes					
Output over current protection	Yes					
Surge protection	DC Type II / AC Type II					
Grid monitoring	Yes					
Anti-islanding protection	Yes					
Temperature protection	Yes					
Strings monitoring	Yes					
I/V Curve scanning	Yes					
Multi peak scan	Yes					
Integrated AFCI	Yes					
Integrated PID recovery	Optional					
Integrated DC switch	Yes					
Integrated AC switch	Yes					
General Data						
Dimensions (W × H × D)	30.9 × 21.6 × 12.6 in (784 × 549 × 320 mm)					
Weight	96.3 lbs (43.7 kgs)	105.4 lbs (47.8 kgs)		108.7 lbs (49.3 kgs)	110.5 lbs (50.1 kgs)	
Topology	Transformerless					
Self-consumption (night)	< 1 W					
Relative humidity	0 - 100%					
Operating ambient temperature range	-13°F to +140°F (-25°C to 60°C)					
Ingress protection	TYPE 4X					
Noise emission (typical)	≤ 55 dB(A)					
Cooling concept	Natural cooling					
Max. operation altitude	13,120 ft (4000 m)					
Compliance	UL1741SB, IEEE 1547-2018, UL1699B, UL1998, FCC Part15 ClassB, California Rule 21, Hoco Rule 14H, NEC 690.12-2020, CAN/CSA C22.2:0.71-1					
Features						
DC connection	MC4 connector					
AC connection	OT terminal (4 AWG to 3/0 AWG)					
Display	LCD					
Communication	Modbus RTU (Sunspec compliant), RS485, Optional: Cellular, Wi-Fi					

INVERTER DETAIL
SCALE: N.T.S.

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10/28/25	REV PER TWP COMMENTS	SA	JMF	

CONSTRUCTION DETAILS

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
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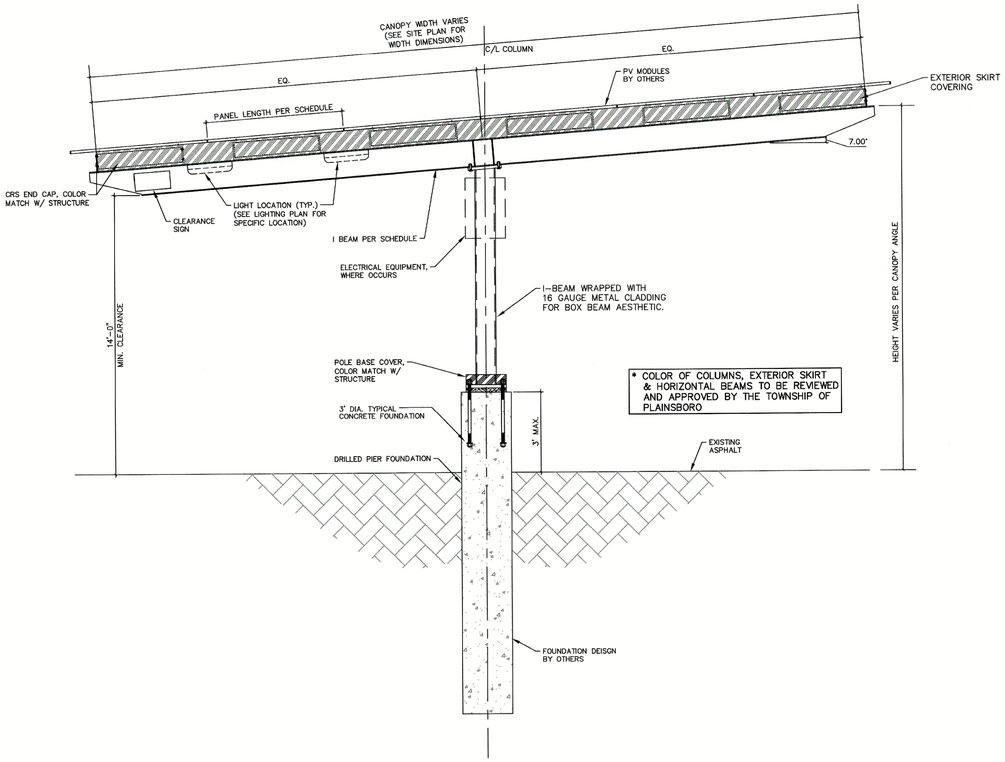
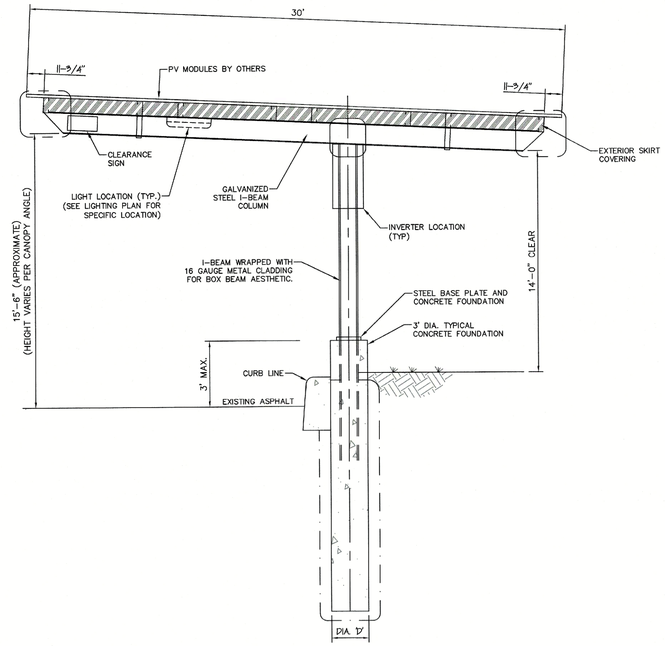
SHEET NO. 14 OF 19	



TYPICAL T-SECTION SOLAR CANOPY STRUCTURAL DETAIL

SCALE: N.T.S.



TYPICAL SOLAR CANOPY STRUCTURAL DETAIL (CANTILEVER SECTION)

SCALE: N.T.S.

Overall Construction Sequence:	Approx. Duration:
Site Preparation & Demolition	2 Weeks
Construction Staging & Material Storage	2 Weeks
Carport Foundations	1 Week
Electrical Conduit Installation	1 Week
Solar Carport Construction	4 Weeks
System Equipment Construction	4 Weeks
Site Restoration & Landscaping	3 Weeks

Individual Construction Tasks Explanation & Site Circulation

Site Preparation & Demolition:
-Contractor to remove all trees and shrubs within the parking lot affected by the proposed improvements (if any).
-Contractor to remove all required light post and fixtures. Light poles that are to remain may need adjustments prior to carport construction.
-Contractor to ensure employee parking and pedestrian circulation will not be affected at this time.

Construction Staging & Material Storage:
-Install temporary fencing around the indicated staging area.
-Contractor to set up material laydown area.

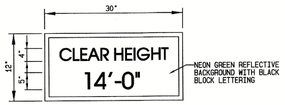
Carport Foundations:
-Contractor to drill and pour concrete foundations for the carports.
-Contractor to cone off each parking row(s) which are being worked on by the foundation crews.
-Vehicle access to the other parking row(s) not having foundations poured must be available. Pedestrian access to the building must be available at all times.
-Once a parking row is completed, parking spaces around the new foundation should be coned off.

Electrical Conduit Installation:
-Contractor to sawcut pavement and install electrical conduit as per plan.
- Contractor to perform work in large sections where vehicle and pedestrian circulation is not impacted.
-All pavement must be properly patched by the end of day and/or before the next section of underground conduit installation can begin.

Solar Carport Construction:
-Contractor to install the solar carport structures one to two parking rows at a time or as many parking rows that will still allow for proper vehicle and pedestrian circulation.
-Contractor to cone off drive aisles or rows to ensure vehicles or pedestrians are not near the structural materials or construction vehicles while work is being performed.

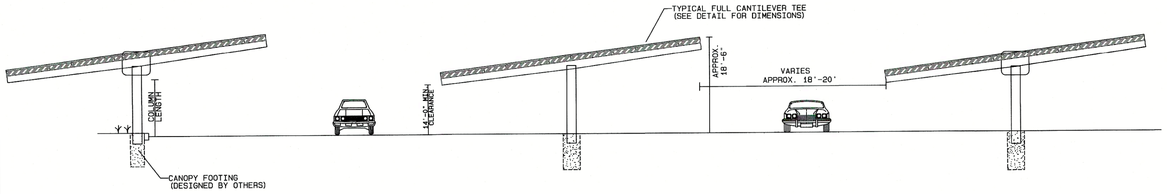
System Equipment Construction:
-Temporary fencing should be provided around the electrical equipment area until complete and the vinyl fencing is installed.
-Vehicle and pedestrian circulation should not be impacted during the construction of the electrical equipment area.

Site Restoration & Landscaping:
-Once the solar carport structures are completed, Contractor to start the installation of all landscaping as per plan (if any).
-Any and all trash or debris created by construction should be immediately removed.
-All damaged sidewalks, concrete curb, asphalt pavement shall be replaced accordingly.
-Contractor to remove all staging area fencing, trailers, material spoils from the staging area and return pavement to original condition.



CLEARANCE SIGN DETAIL

SCALE: N.T.S.



SOLAR CANOPY SIDE VIEW

SCALE: N.T.S.

NOTE: BOX BEAM COLUMNS, HORIZONTAL I-BEAM & EXTERIOR END SKIRT TO RECEIVE HIGH QUALITY PAINT WITH SEMI-GLOSS FINISH, COLOR GRAY AS APPROVED BY PLAINSBORO TOWNSHIP.

TYPICAL SOLAR CARPORT STRUCTURAL RENDERING

SCALE: N.T.S.

DATE	REVISION	DRAWN	CHECKED	RELEASED
12/08/25	REV SHEET AND TITLE INFORMATION	SA	JMF	
10/28/25	REV PER TWP COMMENTS	SA	JMF	

CONSTRUCTION DETAILS

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

SITUATED IN
PLAINSBORO TOWNSHIP, MIDDLESEX COUNTY, NEW JERSEY

FWH ASSOCIATES, P.A.
CIVIL ENGINEERS
LAND SURVEYORS
PLANNERS
LANDSCAPE ARCHITECTS
RESERVE SPECIALISTS
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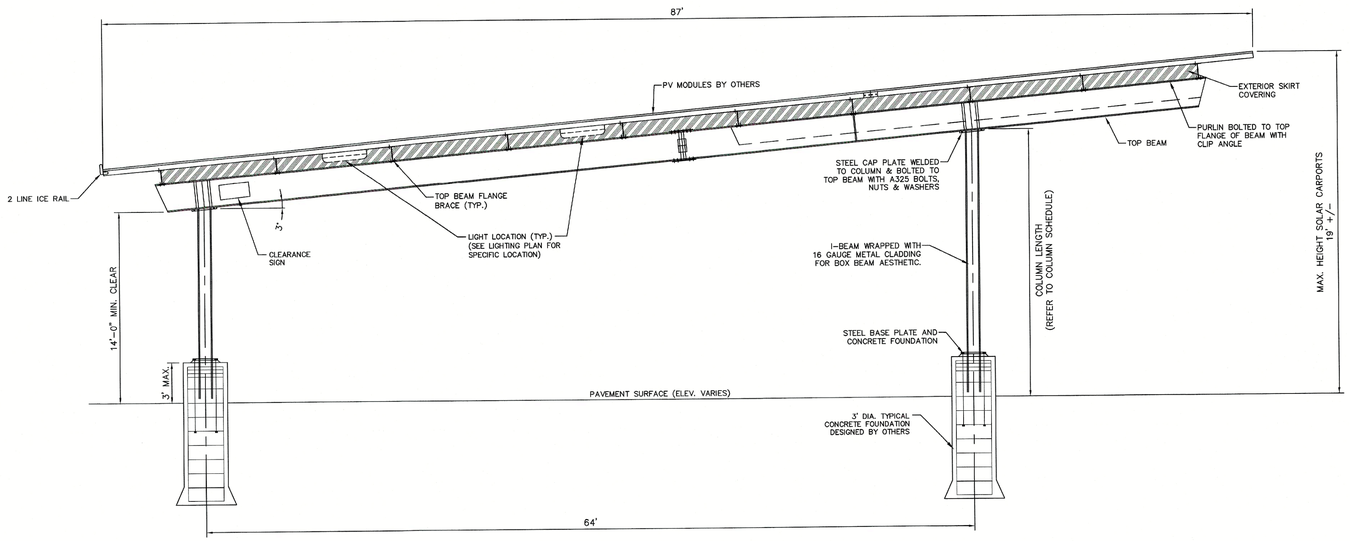
FWHASSOCIATES.COM
1856 Rt. 9, Toms River, NJ 08755 T: 732.797.3100 F: 732.797.3223

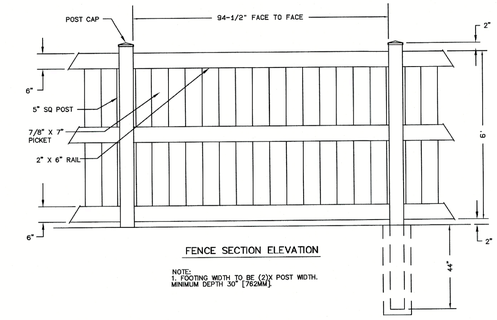
Christopher P. Rosati
PROFESSIONAL ENGINEER
N.J. LIC. NO. 41981

DRAWN BY SA	DATE 10/28/25
DESIGNED BY JMF	SCALE N.T.S.
CHECKED BY JMF	DRAWER NO.
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 15	OF 19



TYPICAL SOLAR CARPORT CANOPY SECTION

SCALE: N.T.S.

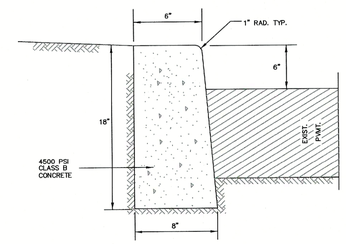


FENCE SECTION ELEVATION

NOTE:
1. FOOTING WIDTH TO BE (2)X POST WIDTH. MINIMUM DEPTH 30" (762MM)

GRAY COMPOSITE BOARD FENCE DETAIL

N.T.S.

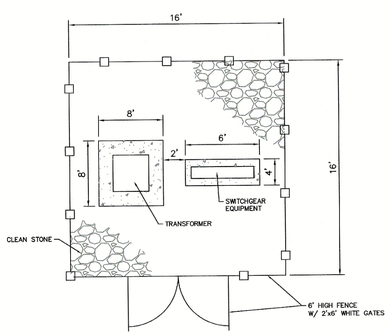


NOTES:

1. EXPANSION JOINTS SHALL BE CONSTRUCTED 20' ON CENTER, AND CONTRACTION JOINTS SHALL BE CONSTRUCTED 10' ON CENTER.
2. TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20'-0" APART AND SHALL BE FILLED WITH PREFORMED BITUMINOUS IMPREGNATED FIBER FILLER, COMPLYING WITH ALL OF THE REQUIREMENTS OF AASHO SPEC. M 213, RECESSED 1/4" IN FROM FRONT FACE AND TOP OF CURB. ALL JOINTS TO BE FULL DEPTH OF 18".
3. WHEN NEW CURB IS INSTALLED ALONG AN EXISTING PAVED AREA, THE EXISTING PAVEMENT SHALL BE NEAT CUT AND THE NEW PAVEMENT SHALL BE TACKED AND BUTTED TO EXISTING PAVEMENT.
4. CURB FACE HEIGHT IS NORMALLY MINIMUM 6" BUT MAY BE REQUIRED TO BE REDUCED TO MATCH EXISTING ADJACENT CURBS UPON APPROVAL.

CONCRETE CURB DETAIL

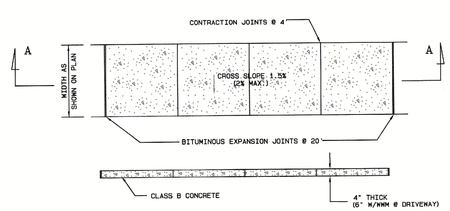
N.T.S.



NOTES:
1. EQUIPMENT LAYOUT MAY VARY WITHIN FENCED AREA.
2. CONTRACTOR TO PROVIDE SECURITY LOCKS OR GATES.

TYPICAL EQUIPMENT LAYOUT DETAIL

SCALE: N.T.S.



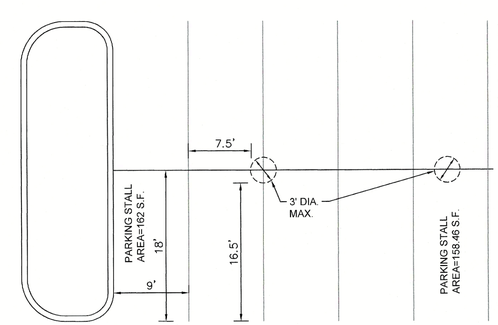
SECTION "A-A"

SIDEWALK NOTES:

1. A PREFORMED, BITUMINOUS EXPANSION JOINT 1/2" THICK, 4" WIDE, AND EXTENDING THE FULL WIDTH OF THE WALK, UNBROKEN, SHALL BE INSTALLED EVERY 20 FEET. CONTRACTION JOINTS SHALL BE INSTALLED EVERY MAXIMUM 4 FEET THE FULL WALK WIDTH
2. THERE SHALL BE A BROOM FINISH TO ENSURE A SLIP RESISTANT WEARING SURFACE IN ACCORDANCE WITH ADA.
3. CONCRETE SHALL BE MINIMUM 4000 PSI.

SIDEWALK DETAIL

SCALE: N.T.S.



* ALL PAVEMENT MARKINGS TO BE EPOXY RESIN PAINT APPLIED BY NJDOT SPECIFICATONS.

CANOPY FOUNDATION & PARKING STALL DETAIL

DATE	REVISION	DRAWN	CHECKED	RELEASED
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CONSTRUCTION DETAILS

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
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HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 – LOT 23)

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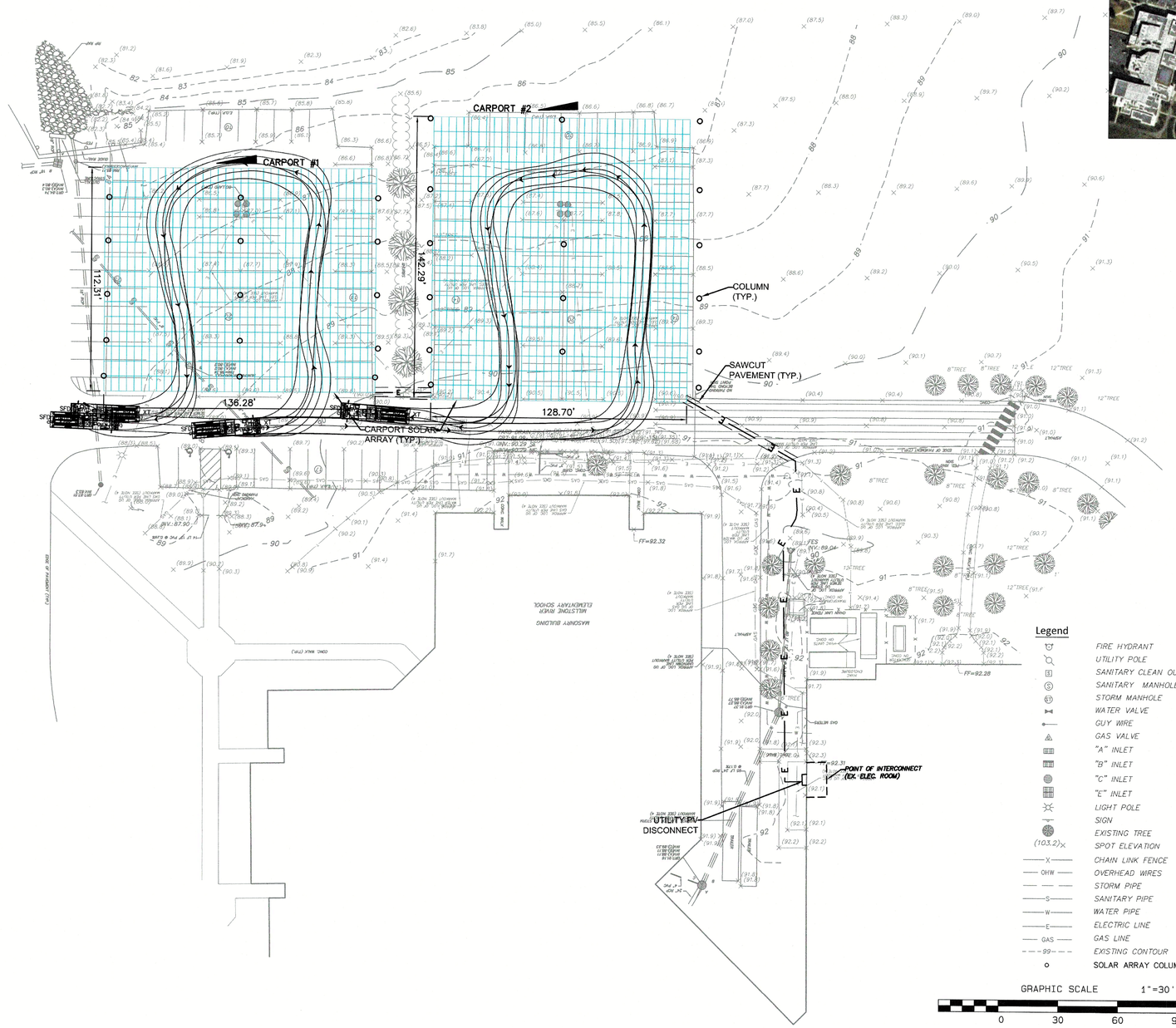
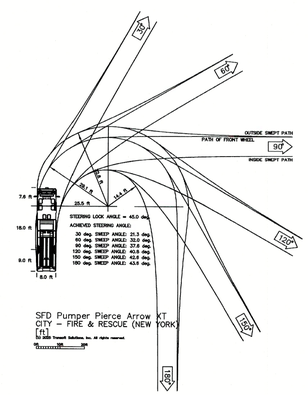
DRAWN BY: SA	DATE: 10/28/25
DESIGNED BY: JMF	SCALE: N.T.S.
CHECKED BY: JMF	DRAWER NO.
RELEASED BY: CPR	PROJECT NO.: 5696.0004
SHEET NO.: 16	OF: 19



AERIAL MAP
SCALE: N.T.S.



APPROXIMATE HEIGHT OF A FIRE TRUCK IS BETWEEN 9'-12'.
MIN. HEIGHT OF SOLAR ARRAY IS 13.5'

DATE	REVISION	DRAWN	CHECKED	RELEASED

CIRCULATION PLAN-MILLSTONE RIVER ELEMENTARY SCHOOL

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 – LOT 1)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 – LOT 3)
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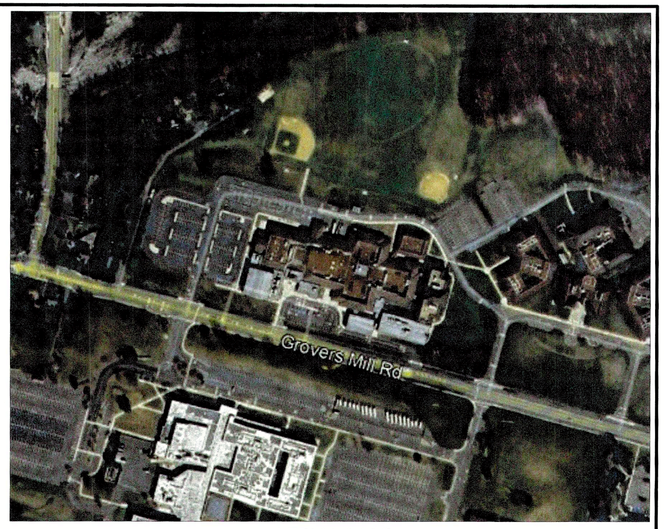
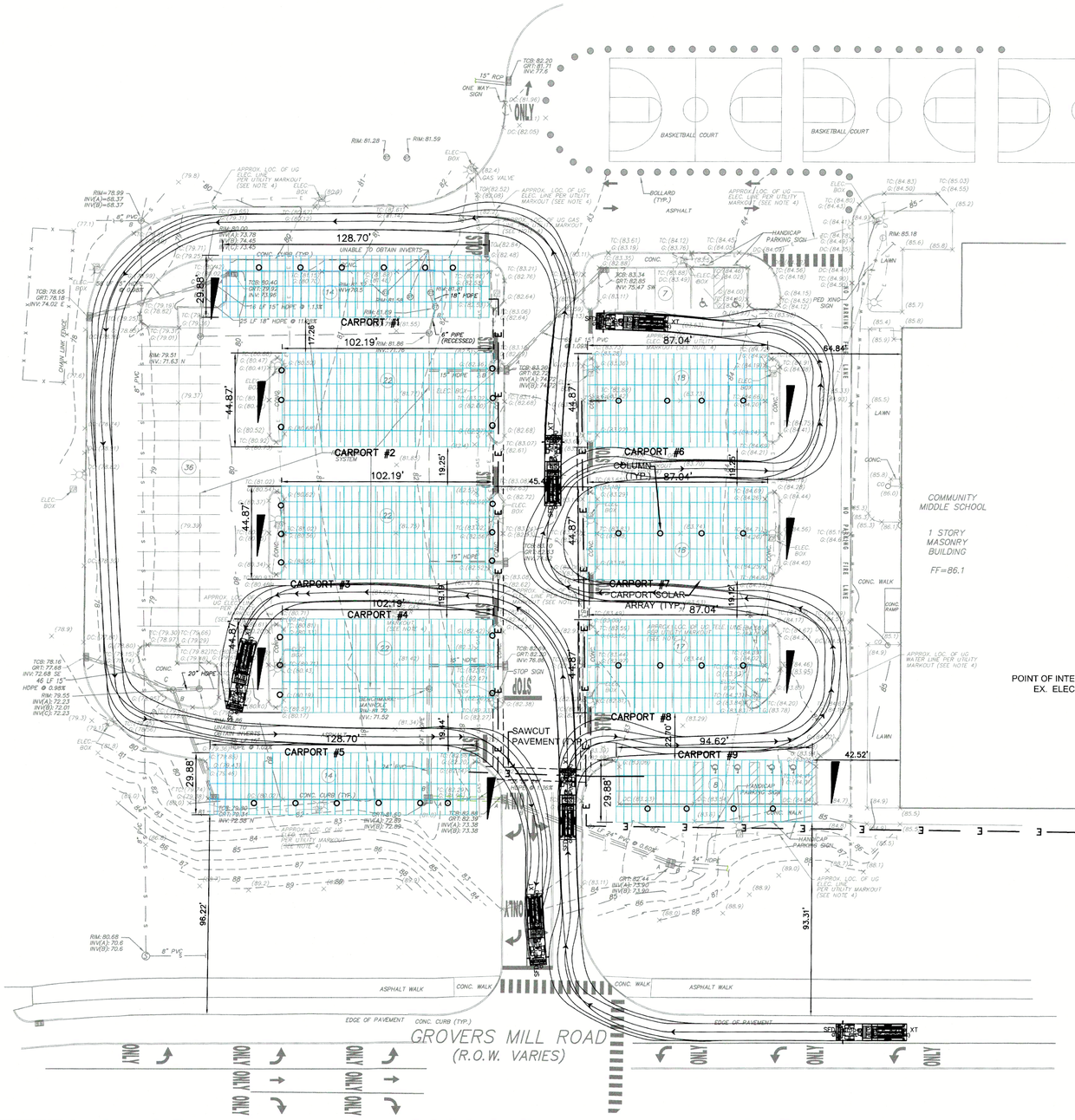
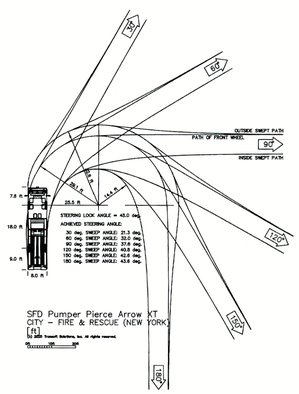
DRAWN BY CSM	DATE 12/08/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWING NO. PC-1038
RELEASED BY CPR	PROJECT NO. 5696.0004
SHEET NO. 17	OF 19



AERIAL MAP
SCALE: N.T.S.





POINT OF INTERCONNECT
EX. ELECTRIC ROOM

WALL MOUNTED
PV DISCONNECT
& AC COMBINER

APPROXIMATE HEIGHT OF A FIRE TRUCK IS BETWEEN 9'-12'.
MIN. HEIGHT OF SOLAR ARRAY IS 13.5'

**CARPORTS #2, #3 & #4 SPAN OVER AN EXISTING STORMWATER RECHARGE SYSTEM. COLUMN FOUNDATION LOCATIONS MUST BE COORDINATED WITH FWH ASSOCIATES PRIOR TO CONSTRUCTION. STORMWATER RECHARGE SYSTEM MAY NOT BE MODIFIED OR COMPROMISED.

GRAPHIC SCALE 1"=30'
0 30 60 90

DATE	REVISION	DRAWN	CHECKED	RELEASED

CIRCULATION PLAN-COMMUNITY MIDDLE SCHOOL

SITE PLAN

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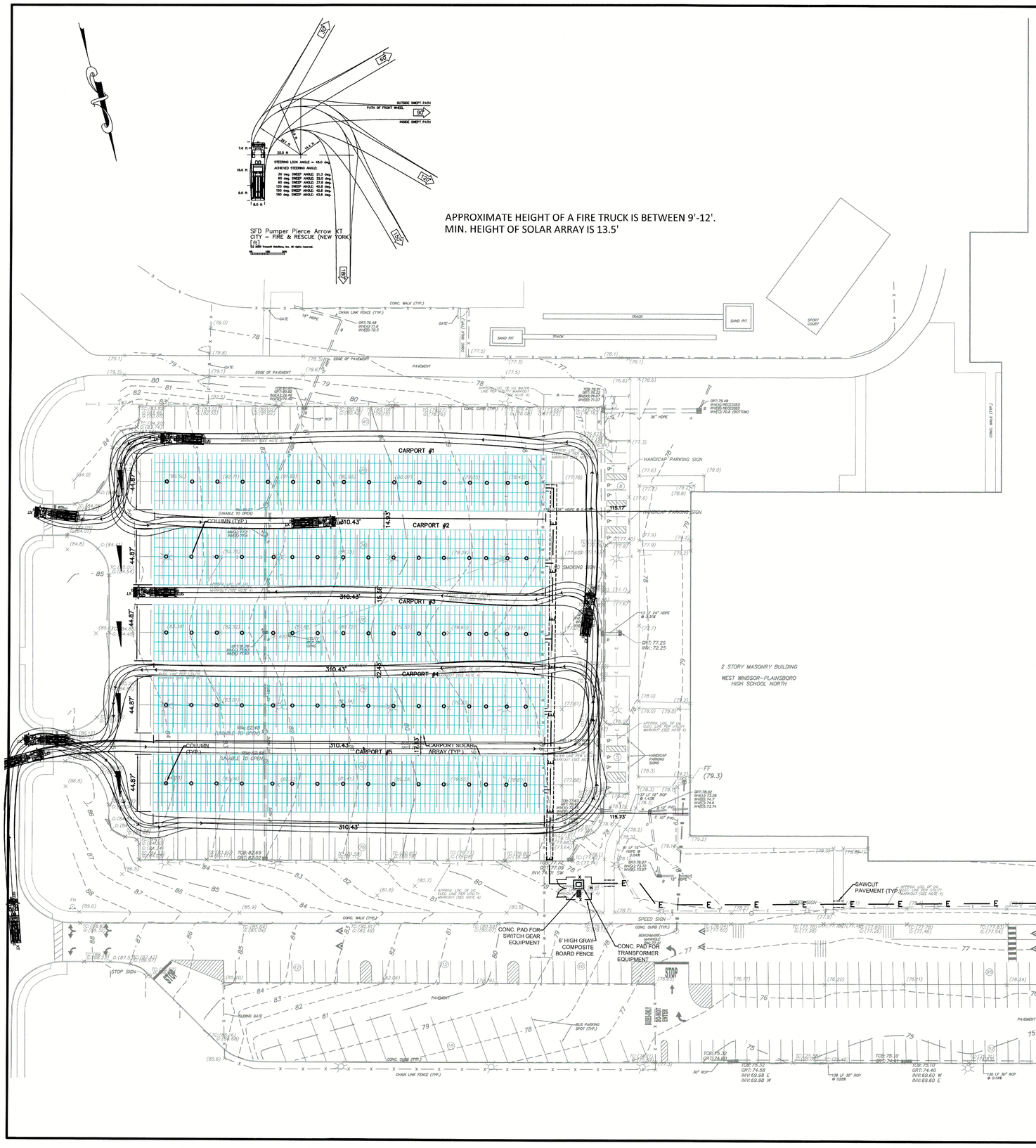
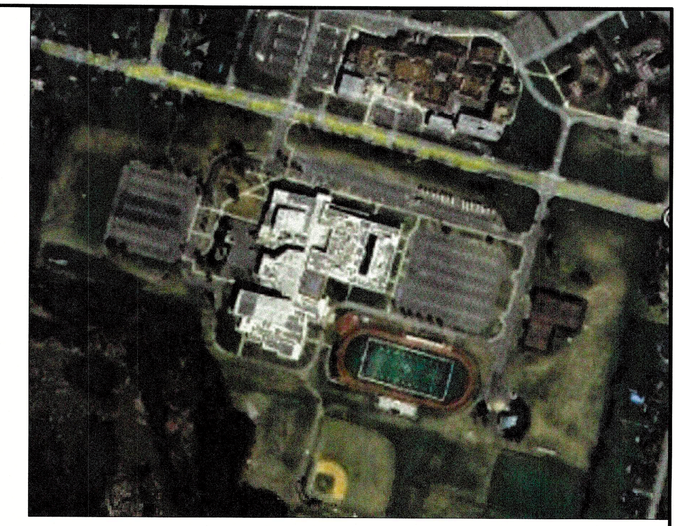
DRAWN BY CSM	DATE 12/08/25
DESIGNED BY JMF	SCALE 1"=30'
CHECKED BY JMF	DRAWER NO.
RELEASED BY CPR	PROJECT NO. 5696.0006
SHEET NO. 18	OF 19





AERIAL MAP
SCALE: N.T.S.

Legend

- FIRE HYDRANT
- UTILITY POLE
- SANITARY CLEAN OUT
- SANITARY MANHOLE
- STORM MANHOLE
- WATER VALVE
- GUY WIRE
- GAS VALVE
- "A" INLET
- "B" INLET
- "C" INLET
- "E" INLET
- LIGHT POLE
- SIGN
- EXISTING TREE
- (103.2)× SPOT ELEVATION
- —X— CHAIN LINK FENCE
- —OHW— OVERHEAD WIRES
- STORM PIPE
- —S— SANITARY PIPE
- —W— WATER PIPE
- —E— ELECTRIC LINE
- —GAS— GAS LINE
- —99— EXISTING CONTOUR
- SOLAR ARRAY COLUMN

DATE	REVISION	DRAWN	CHECKED	RELEASED

CIRCULATION PLAN-HIGH SCHOOL NORTH

SITE PLAN

MILLSTONE RIVER ELEMENTARY SCHOOL 75 GROVERS MILL ROAD (BLOCK 2001 ~ LOT 11)
COMMUNITY MIDDLE SCHOOL 95 GROVERS MILL ROAD (BLOCK 1901 ~ LOT 3)
HIGH SCHOOL NORTH 90 GROVERS MILL ROAD (BLOCK 1902 ~ LOT 23)

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DRAWN BY CSM	DATE 12/08/25
DESIGNED BY JMF	SCALE 1"=40'
CHECKED BY JMF	DRAWER NO.
RELEASED BY CPR	PROJECT NO. 5696.0005
SHEET NO. 19	OF 19