WEST SIDE ELEMENTARY SCHOOL

GROTON PUBLIC SCHOOLS

250 Brandagee Ave
Groton, CT 06340

State Project No. 059-0189 N

Owner:	Construction Manager:	Owner's Representative:	Civil / Site:	Landscape:	Structural:	Mechanical, Electrical, Plumbing & Fire Protection:	Technology and Security:	Food Service:	Acoustical Consultant:	Sustainability Consultant:
City of Groton	**O & G Industries**	**Arcadis**	**Milone & MacBroom**	**Richter & Cegan**	**BVH Integrated Services**	**Diversified Technology Consultants**	**D'Agostino & Associates**	**Foodservice Facilities International**	**Acentech**	**Atelier Ten**
Town Hall Annex 134 Groton Long Point Road Groton, CT 06340 860.572.2100	112 Wall Street Torrington, CT 06790 860.489.9261	207 Main Street, Suite 200 Hartford, CT 06106 860.906.1577	99 Realty Drive Chesire, CT 06410 203.271.1773	Avon Park North P.O. Box 567, 8B Canal Court, Avon, CT 06001 860.678.0669	206 West Newberry Road Bloomfield, CT 06002 860.286.9171	2321 Whitney Avenue, Suite 301 Hamden, CT 06518 203.239.4200	1266 E. Main Street Stamford, CT 06902 203.539.6164	137 Elm Place New Canaan, CT 06840 203.972.1605	33 Moulton Street Cambridge, MA 02138 617.499.8000	798 Chapel Street New Haven, CT 06510 203.777.1400

DRAWING SCHEDULE

COVER
TOPOGRAPHIC SURVEY (3 SHEETS)
C-000 EXISTING CONDITIONS
C-101 SITE PLAN - SEDIMENT AND EROSION CONTROL PLAN
C-102 SITE PLAN UTILITIES
C-103 SITE PLAN SIGNAGE PLAN
C-201 SEDIMENT AND EROSION CONTROL DETAILS
C-202 CIVIL DETAILS
C-203 CIVIL DETAILS
C-204 CIVIL DETAILS
L-101 LANDSCAPE PREPARATION PLAN
L-102 LANDSCAPE MATERIALS LAYOUT PLAN
L-103 LANDSCAPE GRADING PLAN
L-104 LANDSCAPE PLANTING PLAN
L-105 LANDSCAPE PLAYGROUND EQUIPMENT
L-501 SITE DETAILS
L-502 SITE DETAILS
L-503 SITE DETAILS
L-504 SITE DETAILS
L-505 SITE DETAILS
A-100 OVERALL FLOOR PLAN
A-101 LEVEL 1 FLOOR PLAN
A-102a LEVEL 2 PARTIAL FLOOR PLAN
A-102b LEVEL 2 PARTIAL FLOOR PLAN
A-102c LEVEL 2 PARTIAL FLOOR PLAN
A-103 LEVEL 3 FLOOR PLAN
A-110 OVERALL ROOF PLAN
A-201 EXTERIOR ELEVATIONS
A-202 EXTERIOR ELEVATIONS
A-203 EXTERIOR ELEVATIONS
A-204 EXTERIOR ELEVATIONS
A-901 EXTERIOR AERIAL VIEWS
ES-100 ELECTRICAL SITE PLAN
ES-101 ELECTRICAL PHOTOMETRICS PART A
ES-101 ELECTRICAL PHOTOMETRICS PART B

Effective December 1, 2016

Section 3.4
RESIDENCE ZONES
Dimensional Standards

3.4.D R-5.2 District

	R-5.2 District
Minimum Lot Area	5,000 square feet per dwelling unit
Maximum Number Of Lots In A Subdivision	Developable Land / 5,000 SF
Minimum Lot Width	50 feet
Minimum Front Yard Setback	25 feet Or Average setback line observed by buildings on same side of street between two intersecting streets, whichever is lesser
Minimum Side Yard Setback	4 feet
Minimum Rear Yard Setback	25 feet Or 25% of lot depth, whichever is lesser
Maximum Building Coverage	25%
Maximum Building Height	35 feet

Notes - 1. Section 8.3 of the Regulations may provide flexibility related to some of these dimensional standards.
2. See Section 6.2 for requirements related to rear lots

3-9

City of Groton, CT
Department of Planning & Economic Development
Form A - Zoning Table

NOTE: Attach this form to the end of Form A Application and provide upon submitted site plan.

Item	Required	Proposed
Lot Area	5,000/DU	40 acres
Lot Width	50 ft	915 feet.
Front Yard Setback (Min)	25 ft	25 feet
Front Yard Setback (Max)	N/A	25 feet
Side Yard Setback N/S	4 ft	4 feet
Side Yard Setback E/W	4 ft	4 feet
Rear Yard Setback	25 ft	over 100 feet
Building Coverage	25%	3%
Building Height	35 ft	52'-1" from adjacent grade -- see ZBA variance
Building Width	N/A	N/A
Total Impervious Coverage	N/A	235,591 sq ft
Existing Impervious Coverage	N/A	176,607 sq ft
Parking Provided (mixed uses complete below)	N/A	118
Use 1:		
Use 2:		
Use 3:		

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

SITE PLAN SUBMISSION

PROJECT No. 74451
AUGUST 15, 2019

MATCHLINE - SEE SHEET 2 OF 3

NAD 1983

N/F Town of Groton

LAND OF TOWN OF GROTON
Tax Map 168816
Block 84
Lot 0839

N/F Litton Apartments LLC

N/F Carmen A. Llanos & Mildred Negron

N/F Phadealia Pearsall

N/F Paul G. Miller & Debra J. Miller

N/F Birch Plain Properties, LLC

N/F Avery Heights Limited Partnership

BRANDEGEE AVENUE

HYNES AVENUE

MORSE AVENUE

SUTTON PLACE

West Side Elementary School

Existing Building #250

Grass Field

Basketball Court

Gravel Path

Bit Parking Lot

Bit Sidewalk

Conc Sidewalk

Stone Retaining Wall

Stone Wall w/Metal Railing

Chimney Stack

Conc Wall w/Metal Railing

Courtyard

Existing Portable Classroom FF=122.8

Ramp

Bus Shelter

Intermittent Watercourse

Ditch

Watercourse

Foul Line Post

Propane Tank on Conc Pad

Electric Vault on Conc Pad

Pressure Gauge

Iron Stack

Conc Pad

Dumpster Pad

Brick Gate

Conc Dock

Shop Dust Collection

Air Siren

Wood Post and Chain Fence

Overhang

Intercom

Electric Conduit

Building Overhang (Typ)

Approx. Location (WV)

Bench

Plug

Meter

Bollard

Sign

Trash Pickup

Ledge

Grass

Bit

Wall

Jersey Barrier

Metal Railing

Chain Fence

Concrete Pad

Concrete Dock

Concrete Steps

Concrete Ramp

Concrete Curb

Concrete Sidewalk

Bituminous Curb

Bituminous Sidewalk

Bituminous Concrete

Asphalt

Gravel

Brick

Stone

Concrete

Bituminous

Wood

Metal

Plastic

Vinyl

Rubber

Earth

Water

Ice

Snow

Sand

Gravel

Stone

Brick

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Plotted By: MMcCarthy
Project: N:\2020\1777-39\1777-39 WSES Base Plan_Improvements\1777-39 WSES Base Plan_Improvements.dwg

LEGEND

- STREET LINE
- PROPERTY LINE
- STONEWALL
- WATERCOURSE
- WETLAND
- TREELINE
- CHAIN LINK FENCE
- VINYL FENCE
- E — ELECTRIC LINE
- G — GAS LINE
- OHW — OVERHEAD WIRES
- SAN — SANITARY LINE
- W — WATER LINE
- DRAINAGE MANHOLE
- SANITARY MANHOLE
- MANHOLE
- CATCH BASIN
- YARD DRAIN
- FLARED END SECTION
- WV — WATER VALVE
- GV — GAS VALVE
- EM — ELECTRIC METER
- EV — ELECTRIC VAULT
- FA — FIRE ALARM
- V — VAULT

MATCHLINE - SEE SHEET 3 OF 3

NAD 1983

N/F
Town of Groton

LAND OF
TOWN OF GROTON

N/F
Birch Plain
Properties, LLC

N/F
Town of Groton

Ledge

Ledge

FIRM Zone X
(0.2 Annual Chance
of Flood Hazard)

FIRM Zone X
(0.2 Annual Chance
of Flood Hazard)

FIRM Zone X
(Area of Minimal
Flood Hazard)

Inland-Wetlands Limit
(See Note 12)

N11°04'59"E 25.35'
N56°06'35"E 14.95'
S85°08'55"E 47.78'
S03°15'03"W 39.65'
S88°48'26"E 30.35'
S72°56'41"E 139.28'
S66°21'02"E 133.25'
S84°30'11"E 92.36'
S01°33'16"W 16.91'
S20°38'56"E 53.03'
S57°48'48"E 11.15'
S13°55'18"W 30.43'
S08°55'52"W 110.30'
S05°19'11"W 184.75'
S63°22'39"E 54.87'
S89°45'09"E 71.14'
N87°50'38"E 85.57'
N82°31'17"W 1801.02'
S36°57'54"W 95.26'

(SEE SHEET 1 OF 3 FOR NOTES, CERTIFICATION AND REVISION DATE)

GRAPHIC SCALE
40 0 20 40 80
(IN FEET)
1 inch = 40 ft.

MATCHLINE - SEE SHEET 1 OF 3

IMPROVEMENT LOCATION AND TOPOGRAPHIC SURVEY

LAND OF
TOWN OF GROTON
WEST SIDE ELEMENTARY SCHOOL
250 BRANDEGEE AVENUE
GROTON, CONNECTICUT

FIELD	DRAWN	CHECKED	PROJECT NO.
MCIJC	TJP	GAS	1777-39
SCALE 1"=40'			
DATE JULY 31, 2018			SHEET NO. 2 OF 3

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

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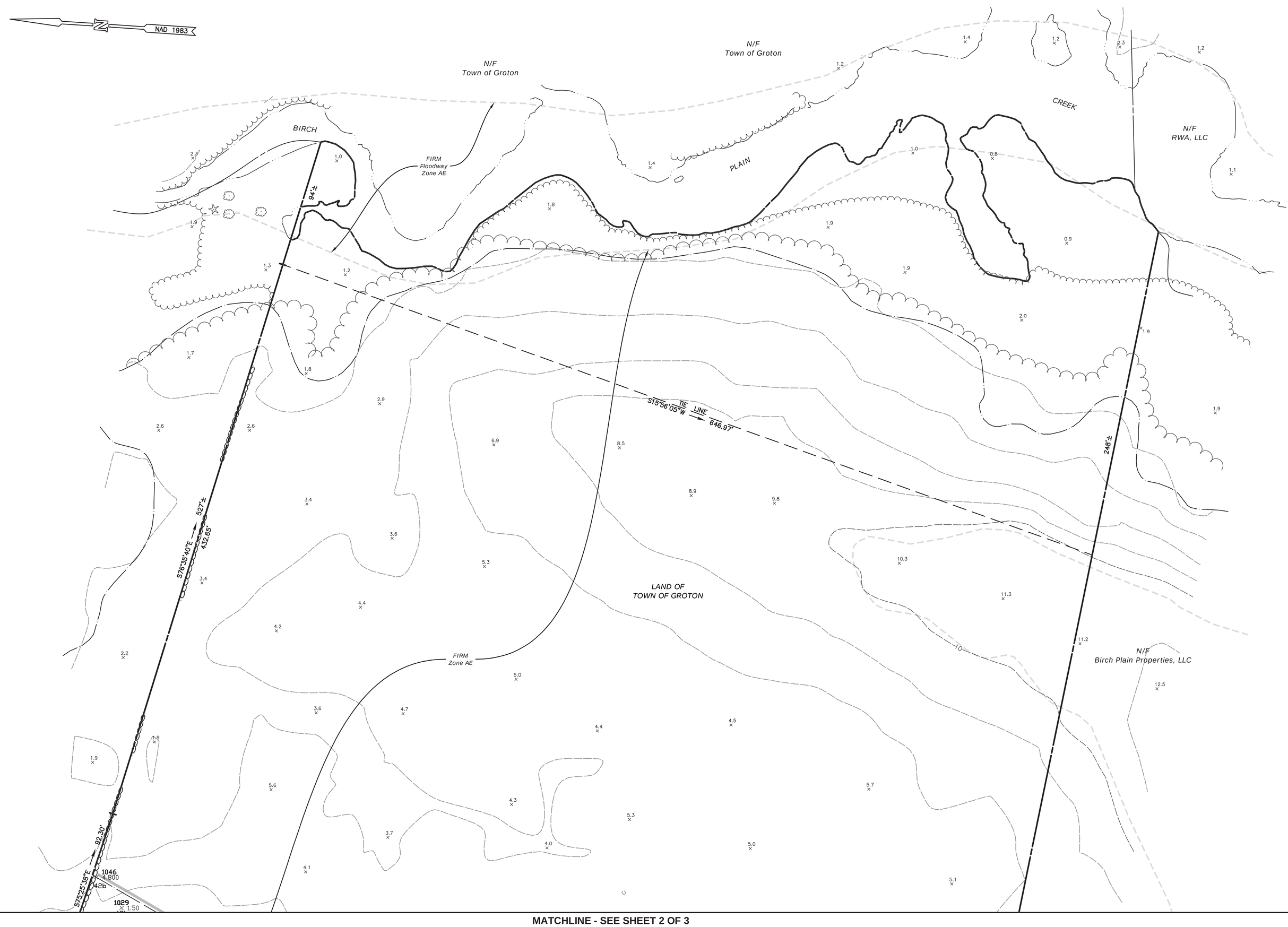
Plotted: 7/30/2019 - 10:17:27 AM By: MCLEAN
Drawing Name: C:\Users\mclean\Milone & MacBroom, Inc\Milone & MacBroom - Documents\Active Projects\1777-39 West Side Elementary School\Survey\1777-39 Topo.dwg



MATCHLINE - SEE SHEET 2 OF 3

GRAPHIC SCALE

40 0 20 40 80

(IN FEET)

1 inch = 40 ft.

(SEE SHEET 1 OF 3 FOR NOTES, CERTIFICATION AND REVISION DATE)

IMPROVEMENT LOCATION AND TOPOGRAPHIC SURVEY

LAND OF
TOWN OF GROTON
WEST SIDE ELEMENTARY SCHOOL
250 BRANDEGEE AVENUE
GROTON, CONNECTICUT

FIELD	DRAWN	CHECKED
MC\JC	TJP	GAS

SCALE 1"=40'

DATE JULY 31, 2018

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

PROJECT NO. 1777-39

SHEET NO. 3 OF 3

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LEGEND

EXISTING		PROPOSED
☼	SITE LIGHT	
☆ WV	HYDRANT	GV
WV	WATER VALVE	
	CATCH BASIN	
	YARD/AREA DRAIN	
	STORM/SANITARY MANHOLE	SAN
SAN	SANITARY SEWER	
D	STORM DRAIN	
W	WATER MAIN	W
DW	DOMESTIC WATER	DW
FP	FIRE PROTECTION	FP
FW	FUTURE WATER MAIN	FW
G	GAS MAIN	G
E	ELECTRIC LINE	E
TEL	TELEPHONE	TEL
	TEST PIT	TP #
	UTILITY POLE	
	UNDERDRAIN/FOOTING DRAIN	
	GEOTECHNICAL BORING	

GENERAL NOTES

1. BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED UPON A MAP ENTITLED "IMPROVEMENT LOCATION AND TOPOGRAPHIC SURVEY, OF PROPERTY LOCATED AT 250 BRANDEGEE AVENUE, GROTON, CONNECTICUT, PREPARED FOR: TOWN OF GROTON, DATE: JULY 31, 2018, SCALE: 1"=40', PREPARED BY: MILONE & MACBROOM, INC.
2. INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
3. MILONE & MACBROOM INC. ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
4. ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
5. SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.
6. ALL STORM DRAIN PIPE SHALL BE SMOOTH LINED HIGH DENSITY POLYETHYLENE PIPE (HDPE) UNLESS OTHERWISE INDICATED.
7. ALL GRAVITY SANITARY SEWER PIPE SHALL BE SDR-35 PVC UNLESS OTHERWISE INDICATED.
8. ALL WATER PIPE TO BE DUCTILE IRON PIPE CLASS 52 UNLESS OTHERWISE NOTED.
9. ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF GROTON, CITY OF GROTON AND GROTON UTILITIES REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 817 AND ADDENDUMS.
10. THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER AUTHORITY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE EXECUTION OF WORK. THE ENGINEER WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
11. ALL FUEL, OIL, PAINT, OR OTHER HAZARDOUS MATERIALS USED DURING CONSTRUCTION SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
12. ▩ SYMBOL DELINEATES TEST PITS TO BE PERFORMED BY THE CONTRACTOR TO VERIFY LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF FINDINGS.
13. CONTRACTOR SHALL CLEAN EXISTING CATCH BASINS AND STORM DRAINAGE PIPES AFTER CONSTRUCTION WITHIN PROJECT LIMITS.

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

STATE OF CONNECTICUT · THOMAS F. DALY · 41909 · LICENSED PROFESSIONAL ENGINEER

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:
EXISTING CONDITIONS

SCALE: **1" = 30'**

C-000

PLANNING AND ZONING SUBMISSION

JUNE 18, 2019

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, CITY OF GROTON STANDARDS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1. PURPOSE AND DESCRIPTION OF PROJECT
A.) CONSTRUCTION OF A PROPOSED SCHOOL.
B.) DISTURBED AREA: ±9.05 AC.
2. IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
B.) PROTECTION OF ONSITE WETLANDS.

3. IDENTIFICATION OF OTHER POSSIBLE PERMITS
THE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL INLAND WETLANDS, AND PLANNING AND ZONING PERMITS, AND CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION STORMWATER GENERAL PERMIT.

4. RESPONSIBLE PARTY
O&G INDUSTRIES - LOREL PURCELL - (860) 489-9261

200' UPLAND REVIEW AREA

BASIN TO BE INSTALLED PRIOR TO START OF MASS EARTHWORK. BOTTOM OF BASIN TO BE SET AT ELEVATION 82 AS A SEDIMENT BASIN. FINAL GRADES TO BE ESTABLISHED ONCE SITE IS 80% STABILIZED.

STONE CHECK DAM (TYP.)

STONE CHECK DAM

FFE=121.0

BRANDEGEE AVENUE

EROSION CONTROL LEGEND

- CE — CONSTRUCTION ENTRANCE
- IP — INLET PROTECTION (SILTSACK) NOTE: TYP. OF ALL INLETS
- GSF — SEDIMENT FILTER FENCE
- HB — HAYBALES
- STK — TEMPORARY SOIL STOCKPILE AREA SURROUNDED WITH SEDIMENT FILTER FENCE
- DB — TEMPORARY DIVERSION BERM WITH STONE CHECK DAM
- CD — STONE CHECK DAM
- TST — TEMPORARY SEDIMENT BASIN
- ECB — EROSION CONTROL BLANKET
- WB — WATER BAR
- SW — STRAW WATTLES
- CF — CONSTRUCTION FENCE (8" HIGH CHAIN LINK DRIVEN FENCE)

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

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203.271.1773
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STATE OF CONNECTICUT — THOMAS F. DALY — 41729 — LICENSED PROFESSIONAL ENGINEER

SEAL

KEY PLAN

PERKINS EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:

Construction Manager:

Owner's Representative:

Civil / Site:

Landscape:

Structural:

Mechanical, Electrical, Plumbing & Fire Protection:

Technology and Security

Food Service:

Acoustical Consultant:

Sustainability Consultant:

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:
SITE PLAN - SEDIMENT & EROSION CONTROL PLAN

SCALE: **1" = 30'**

C-101

PLANNING AND ZONING SUBMISSION

JUNE 18, 2019

STORM WATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY. THE STORMWATER SYSTEM CONSISTS OF PIPING AND CATCH BASINS.

IN ORDER TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM, THE FOLLOWING STORMWATER MAINTENANCE PROGRAM HAS BEEN ESTABLISHED. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM.

A. CATCH BASINS/YARD DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEPT IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEPT ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15.

C. STORMWATER BASINS

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER PONDS MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS.

INSPECTIONS: BASINS SHOULD BE INSPECTED TWICE PER YEAR(SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/BED/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY INFLUENCE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICE AND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS AFTER ONE HALF(12" ±) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED. AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF EACH FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY. SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. LAWN AND VEGETATED AREAS

VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE IF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCESSES.

STORMWATER CHAMBER ALTERNATIVES

HYDRODYNAMIC SEPARATOR 1 (MH 3)
REQUIRED TREATMENT CAPACITY: 3.55 CFS

POSSIBLE STRUCTURES:
- CONTECH CDS MODEL 3020-6-C
- HYDRO INTERNATIONAL FIRST DEFENSE MODEL FD-6HC
- HYDROWORKS HYDROSTORM MODEL HS-7

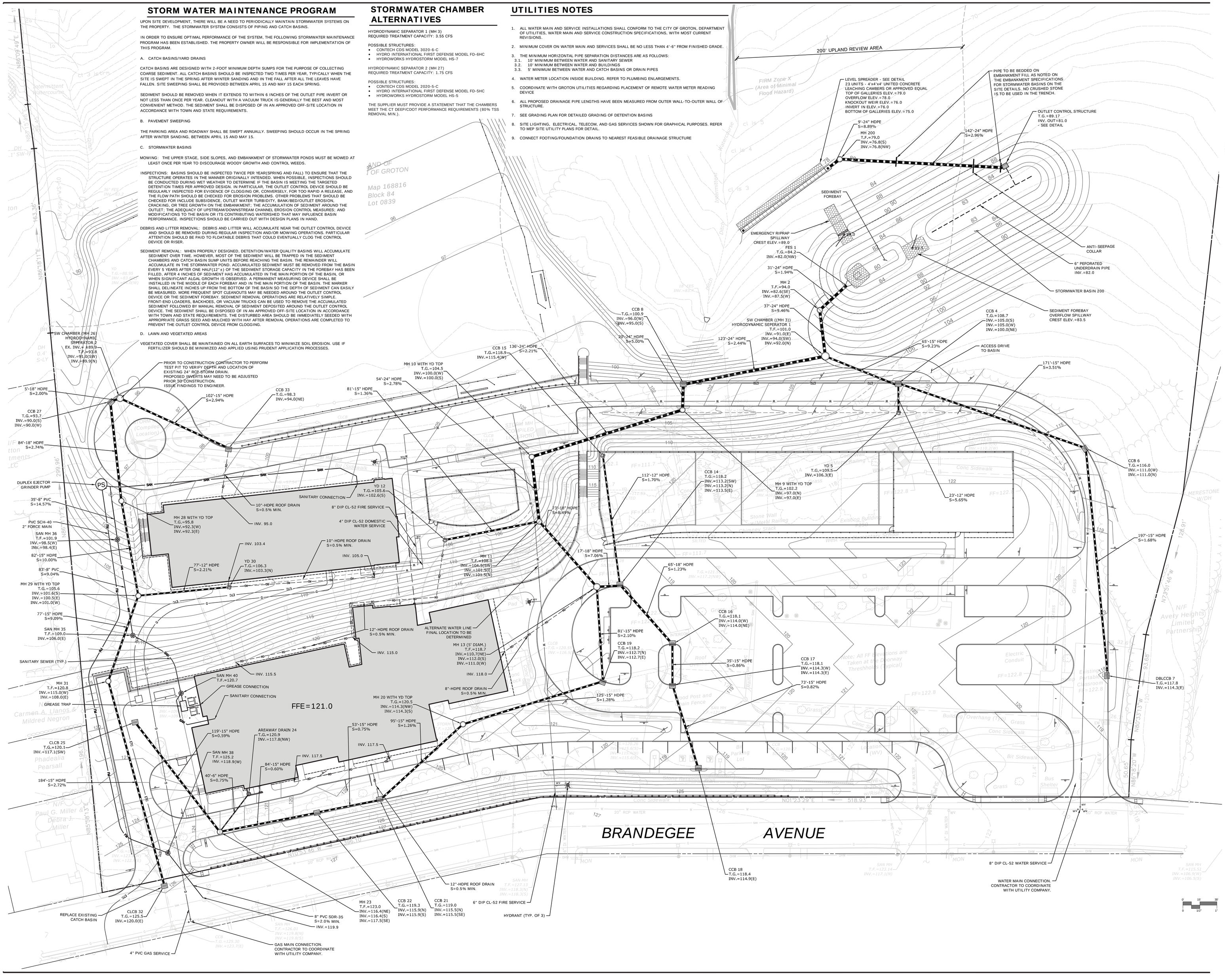
HYDRODYNAMIC SEPARATOR 2 (MH 27)
REQUIRED TREATMENT CAPACITY: 1.75 CFS

POSSIBLE STRUCTURES:
- CONTECH CDS MODEL 2020-5-C
- HYDRO INTERNATIONAL FIRST DEFENSE MODEL FD-5HC
- HYDROWORKS HYDROSTORM MODEL HS-5

THE SUPPLIER MUST PROVIDE A STATEMENT THAT THE CHAMBERS MEET THE CT DEEP/CDOT PERFORMANCE REQUIREMENTS (80% TSS REMOVAL MIN.).

UTILITIES NOTES

1. ALL WATER MAIN AND SERVICE INSTALLATIONS SHALL CONFORM TO THE CITY OF GROTON, DEPARTMENT OF UTILITIES, WATER MAIN AND SERVICE CONSTRUCTION SPECIFICATIONS, WITH MOST CURRENT REVISIONS.
2. MINIMUM COVER ON WATER MAIN AND SERVICES SHALL BE NO LESS THAN 4'-6" FROM FINISHED GRADE.
3. THE MINIMUM HORIZONTAL PIPE SEPARATION DISTANCES ARE AS FOLLOWS:
   - 3.1. 10' MINIMUM BETWEEN WATER AND SANITARY SEWER
   - 3.2. 10' MINIMUM BETWEEN WATER AND BUILDINGS
   - 3.3. 5' MINIMUM BETWEEN WATER AND CATCH BASINS OR DRAIN PIPES
4. WATER METER LOCATION INSIDE BUILDING. REFER TO PLUMBING ENLARGEMENTS.
6. ALL PROPOSED DRAINAGE PIPE LENGTHS HAVE BEEN MEASURED FROM OUTER WALL-TO-OUTER WALL OF STRUCTURE.
7. SEE GRADING PLAN FOR DETAILED GRADING OF DETENTION BASINS
8. SITE LIGHTING, ELECTRICAL, TELECOM, AND GAS SERVICES SHOWN FOR GRAPHICAL PURPOSES. REFER TO MEP SITE UTILITY PLANS FOR DETAIL.
9. CONNECT FOOTING/FOUNDATION DRAINS TO NEAREST FEASIBLE DRAINAGE STRUCTURE



NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

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STATE OF CONNECTICUT · THOMAS P. DALY · LICENSED PROFESSIONAL ENGINEER · #19709

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:
WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:
SITE PLAN - UTILITIES

SCALE: 1" = 30'

C-102

PLANNING AND ZONING SUBMISSION

JUNE 18, 2019

NO.	DATE	ISSUE
1	07/2 /2019	PN□ SU□MISSION
2	0□/13/2019	PN□ SU□MISSION

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STATE OF CONNECTICUT
THOMAS J. D□
49□70
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SEAL

KEY PLAN

PERKINS EASTMAN
422 Summer Street
Stamford, CT 06901
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PROJECT TITLE□

WEST SIDE ELEMENTARY SCHOOL

2□0 □r□□d□□□□A□□□□□
Gr□□□□□CT 0□340

PROJECT N□□ 744□0

DRAWING TITLE□

SITE PLAN □SIGN AND PAVEMENT MARKINGS

SCALE□ **1" = 40'**

C-103

PLANNING AND □ONING SU□MISSION

JUNE 1□□2019

SEDIMENT AND EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:

1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
   a. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   b. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
   c. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
   d. PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
   e. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
   f. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
   g. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:

1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.

MATERIAL: SEE SPECIFICATIONS

APPLICATION:

1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

GENERAL:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
4. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST INTO THE SOIL - APPLY IT EVENLY TO SOIL SURFACE AS A SEED BED.
5. TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

SITE PREPARATION:

1. SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING)
2. APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
3. UNLESS HYDROSEEDED, COVER HYDRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
4. MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW AND ANCHOR TO SLOPES GREATER THAN 3%%% OR WHERE NEEDED.

PERMANENT VEGETATIVE COVER

GENERAL:

PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:

1. INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY SOIL AMENDMENTS AS FOLLOWS:
   LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
   ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
6. UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST

VEGETATED COVER SELECTION AND MULCHING

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 5 LBS./1,000 SQ.FT. (LOLIUM PERENNE)
DUTCH WHITE CLOVER (TRIFOLIUM REPENS) 1/4 LBS PER 1000 SF. OR 6LBS/AC.

* PERMANENT VEGETATIVE COVER:

DUTCH WHITE CLOVER 30%
BARON KENTUCKY BLUEGRASS 30%
JAMESTOWN II CHEWINGS FESCUE 20%
PALMER PERENNIAL RYEGRASS 20%

NEW ENGLAND EROSION CONTROL/RSESOTRATION MIX FOR MOIST SITES AT 1/8 LB PER 1000 S.F. FOR 5 LBS/AC.

NEW ENGLAND SHOWY WILD FLOW MIX AT 1/16 LB PER 1000 S.F. OR 2 LBS/AC

* LOFTS - "TRIPLEX GENERAL" MIX OR APPROVED EQUAL. RECOMMENDED RATE/TIME SEEDING.
SPRING SEEDING: 4/1 to 5/31
FALL SEEDING: 8/16 to 10/15

TEMPORARY MULCHING:

STRAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS) WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

ESTABLISHMENT:
1. SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
2. SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
3. APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
4. COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
5. MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
6. USE PROPER INOCULAT ON ALL LEGUME SEEDLINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
7. USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

MAINTENANCE:

1. TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.

EROSION CHECKS

GENERAL:

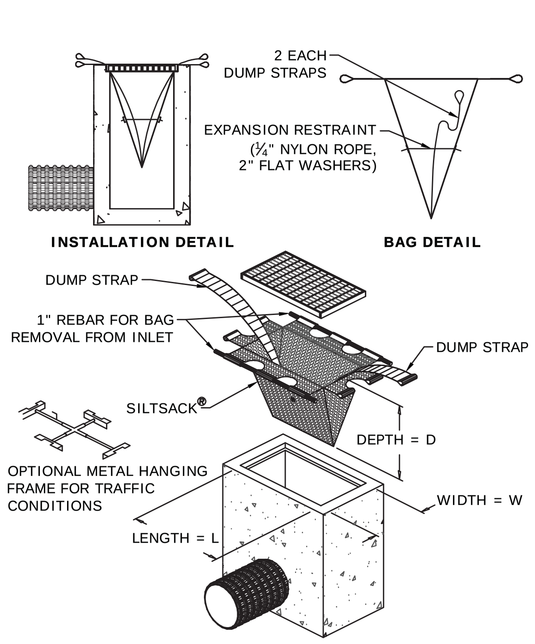
1. TEMPORARY PERVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

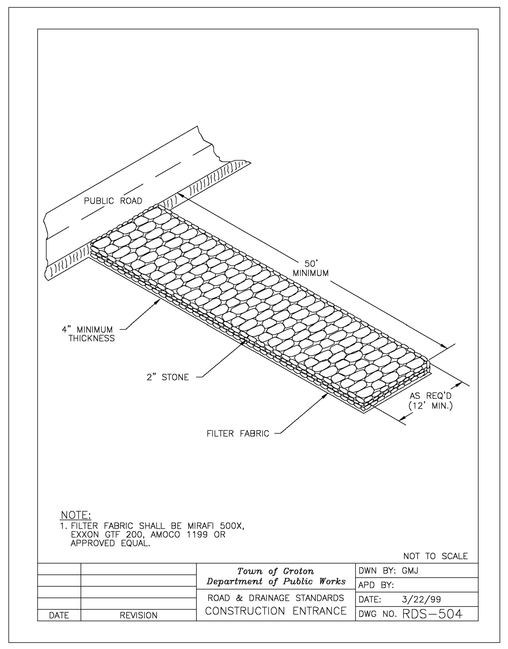
1. BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
4. GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').

INSTALLATION AND MAINTENANCE:

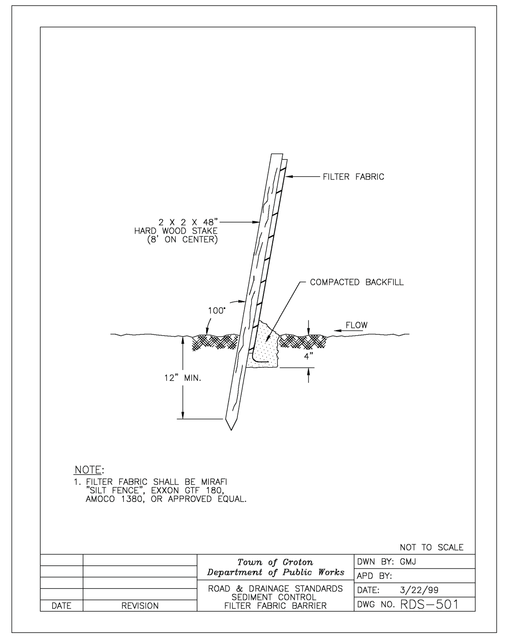
1. BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
2. BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
3. ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
4. INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
5. EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.



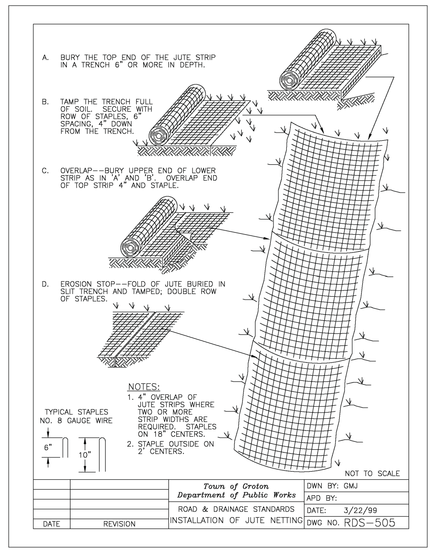
1 INLET PROTECTION
NOT TO SCALE



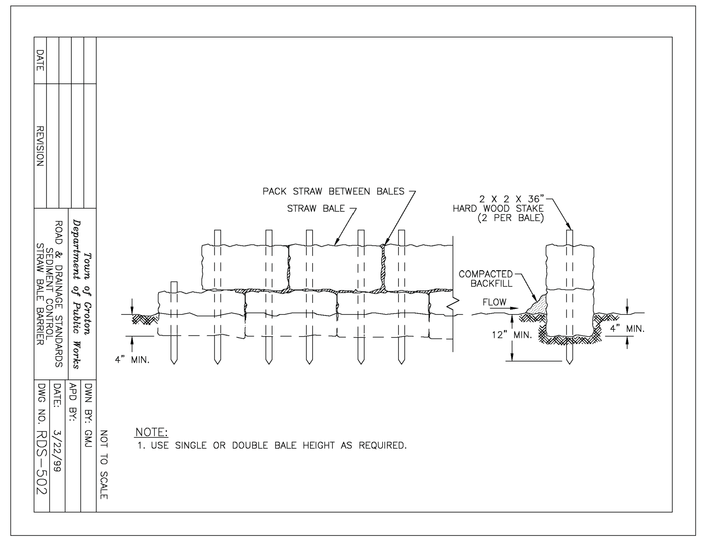
2 CONSTRUCTION ENTRANCE PAD
NOT TO SCALE



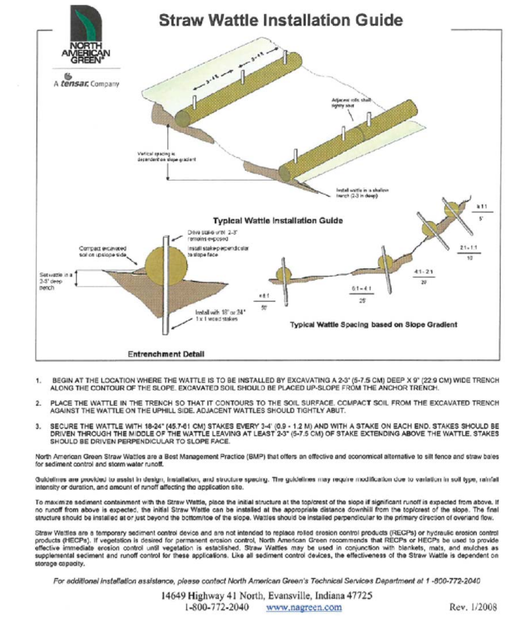
3 SEDIMENT FILTER FENCE
NOT TO SCALE



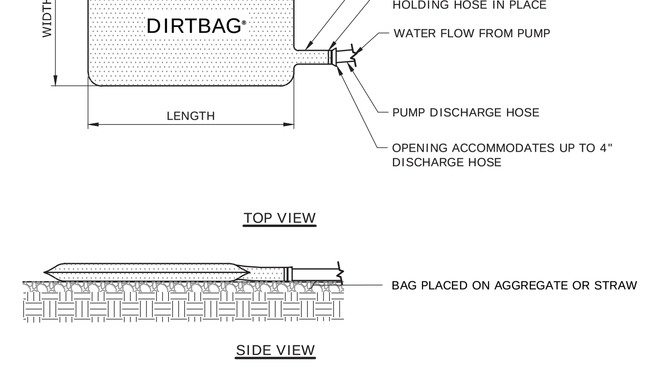
6 EROSION CONTROL BLANKET
NOT TO SCALE



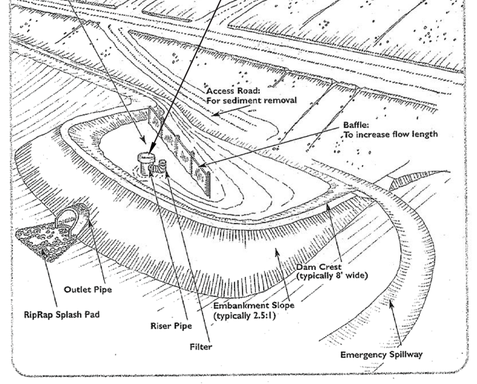
7 HAYBALE BARRIER
NOT TO SCALE



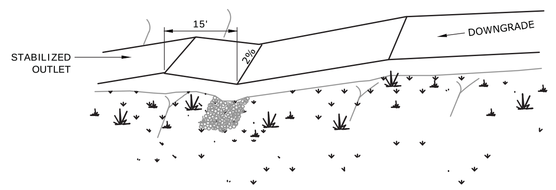
8 STRAW WATTLE
NOT TO SCALE



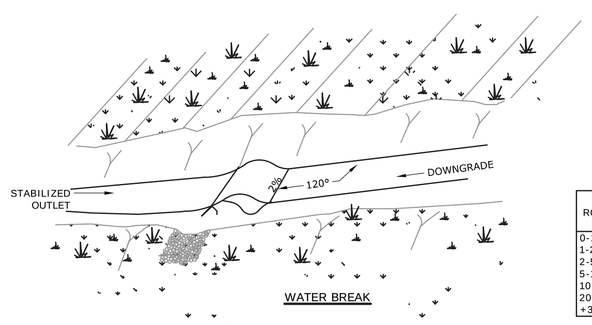
4 DIRTBAG PUMPED SILT CONTROL SYSTEM
NOT TO SCALE



5 TEMPORARY SEDIMENT TRAP
NOT TO SCALE



ROLLING DIP



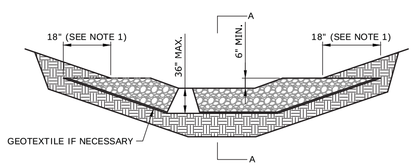
WATER BREAK

ROAD GRADE	SPACING BETWEEN WATER BREAKS (AVERAGE SOIL)	SPACING BETWEEN WATER BREAKS (HIGH ERODIBLE)
0-1%	400'	200'
1-2%	245'	125'
2-5%	125'	100'
5-10%	100'	75'
10-20%	75'	50'
20-35%	50'	25'
+35%	25'	25'

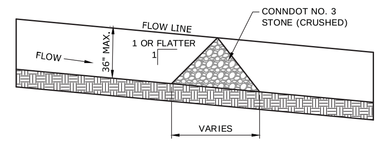
NOTES:

1. INSTALL WATER BREAKS/ ROLLING DIPS (DIVERSIONS) AS SOON AS THE RIGHT-OF-WAY HAS BEEN CLEARED AND GRADED
2. ROLLING DIPS ARE TO BE INSTALLED IF THE ROAD IS INTENDED FOR WINTER USE OR USED BY VEHICLES WITH LOW CLEARING THE HEIGHT FROM CHANNEL BOTTOM TO THE TOP OF THE SETTLED RIDGE SHALL BE 18" AND THE SIDE SLOPE S OF THE RIDGE SHALL BE 2..1 OR FLATTER.
3. THE OVERFLOW END OF THE DIVERSIONS SHOULD HAVE A NATURAL OR CONSTRUCTED STABLE OUTLET TO CLEAN THE SEDIMENT OUT OF THE WATER AND PREVENT EROSION. NEVER OUTLET DIVERSIONS ONTO UNPROTECTED FILL SLOPES.
4. SPACING BETWEEN DIVERSIONS MAY NEED TO BE ADJUSTED TO FIELD CONDITIONS SO AS TO USE THE MOST SUITABLE AREAS FOR WATER DISPOSAL. THESE CHANGES SHALL BE APPROVED PRIOR TO THEIR INSTALLATION BY THE DESIGN ENGINEER.
5. USE GRAVEL TO STABILIZE THE DIVERSIONS WHERE THE SIGNIFICANT VEHICULAR TRAFFIC IS ANTICIPATED.
6. DIVERSION SHALL BE INSPECTED PERIODICALLY AND AFTER EVERY HEAVY RAIN STORM FOR EROSION DAMAGE. REMOVE SEDIMENT IMMEDIATELY FROM THE FLOW AREA AND MAKE TIMELY REPAIRS AS NEEDED.

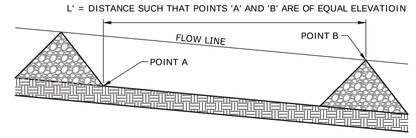
9 WATER BAR DETAIL
NOT TO SCALE



STONE CHECK DAM UPSTREAM



SECTION A-A



SPACING BETWEEN CHECK DAMS

NOTES:
1. KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW FROM FLANKING THE CHECK DAM.
2. THE MINIMUM DESIGN CAPACITY SHALL CONVEY A 2 YEAR-24 HOUR PEAK FLOW.

10 STONE CHECK DAM
NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS

EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO ½ THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6' OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES ½ OF THE REQUIRED WET STORAGE.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	TST MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
TEMPORARY DIVERSION BERM/SWALE (DB)	- MINIMIZE VELOCITY AND CONCENTRATION OF SHEET FLOW ACROSS CONSTRUCTION SITE TO A SEDIMENT TRAPPING FACILITY. - DIVERT WATER ORIGINATING FROM UNDISTURBED AREA AWAY FROM CONSTRUCTION.	WHEN LOCATED WITHIN CLOSE PROXIMITY TO ONGOING CONSTRUCTION ACTIVITIES, INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. REPAIR THE TEMPORARY MEASURE AND ANY OTHER ASSOCIATED MEASURES WITHIN 24 HOURS.	- PHYSICAL DAMAGE - EXCESSIVE SCOURING/EROSION - REPETITIVE FAILURE	TEMPORARY DIVERSIONS MAY BE REMOVED ONCE CONSTRUCTION HAS CEASED AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

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STATE OF CONNECTICUT · THOMAS J. DALY · 21709 · LICENSED PROFESSIONAL ENGINEER

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT NO: 74450

DRAWING TITLE:

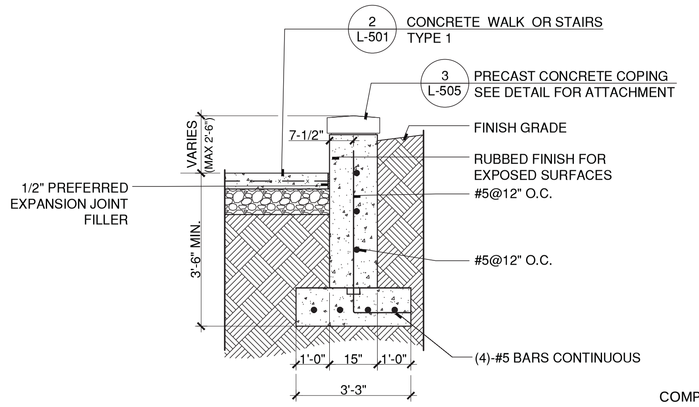
SEDIMENT AND EROSION CONTROL DETAILS

SCALE: **AS NOTED**

C-201

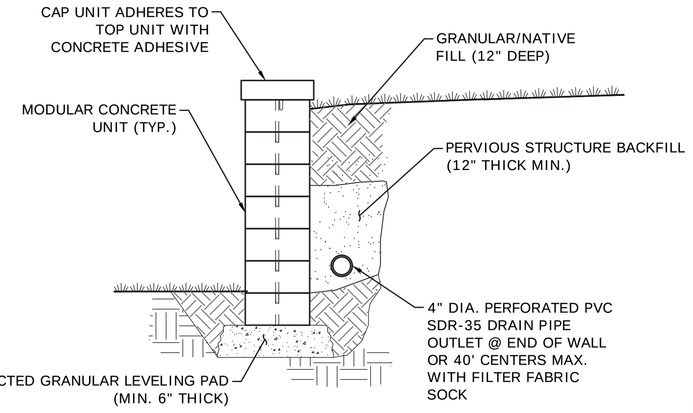
PLANNING AND ZONING SUBMISSION

JUNE 18, 2019



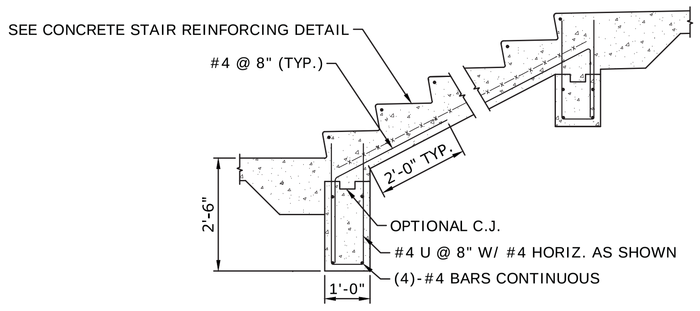
1 TYPICAL CONCRETE RETAINING/PLANTER WALL

NOT TO SCALE



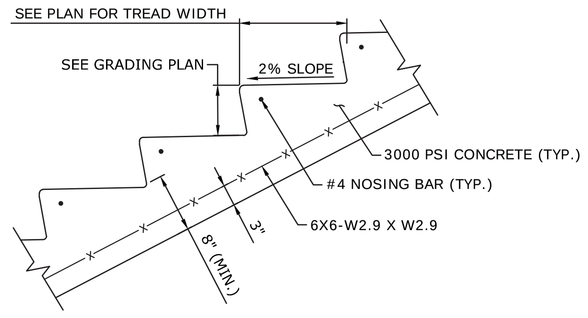
2 TYPICAL SECTION - UNREINFORCED RETAINING WALL FOR WALLS OF 48" MAX. EXPOSED HEIGHT

NOT TO SCALE



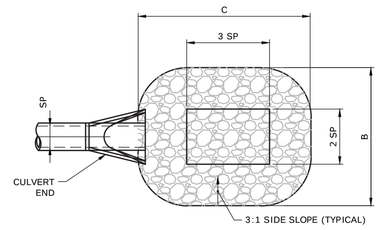
3 STAIR TERMINATION REINFORCING DETAIL

NOT TO SCALE

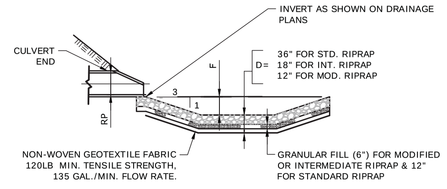


4 TYPICAL CONCRETE STAIR REINFORCING DETAIL

SCALE: 1"=1'



PLAN



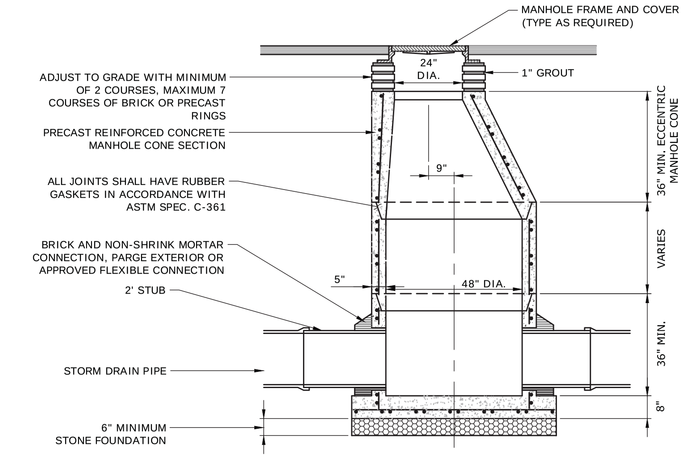
ELEVATION

OUTLET PROTECTION ID	TYPE	SP (FT)	RP (FT)	C (FT)	B (FT)	F (FT)	D (IN)
FES 10	MODIFIED TYPE 1	2.0	2.0	12.0	10.0	1.0	12.0

RIPRAP PREFORMED SCOUR HOLE TABLE

5 PREFORMED SCOUR HOLE

NOT TO SCALE

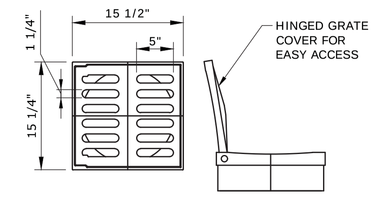


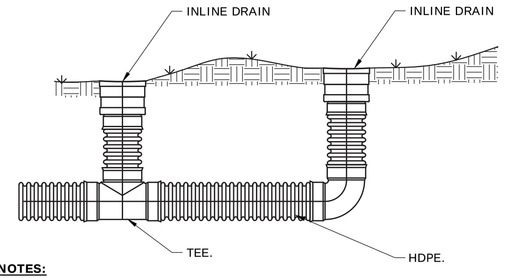
NOTES:

1. 5' OR 6' DIAMETER PRECAST BASES MAY BE REQUIRED DUE TO SIZE OR NUMBER OF PIPES AT THE MANHOLE. PRECAST REDUCERS WILL BE PLACED ABOVE THE 5' OR 6' BASES AS DIRECTED BY THE ENGINEER. WALL THICKNESS TO INCREASE BY 1" FOR EACH 1'-0" OF INSIDE DIAMETER.

6 PRECAST CONCRETE STORM DRAINAGE MANHOLE

NOT TO SCALE



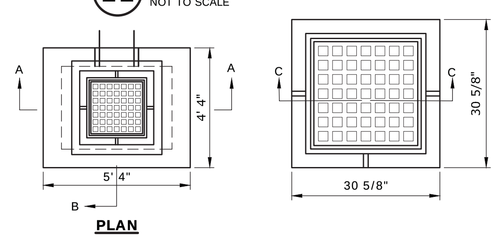


NOTES:

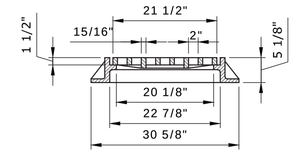
1. ALL AREA DRAIN GRATES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON PLANS.
   - 1.1. 15" CAST IRON GRATE DRAIN AREA = 92.5SQ. INCH GRATE HAS H-20 (HEAVY TRAFFIC) DOT RATING .
   - 1.2. MATERIAL SHALL CONFORM TO ASTM A48 - CLASS 30B.
   - 1.3. CASTINGS ARE FURNISHED WITH A BLACK PAINT.
   - 1.4. INLINE DRAIN TO BE NYLOPLAST INC OR APPROVED EQUAL.

11 AREA DRAIN & GRATE

NOT TO SCALE



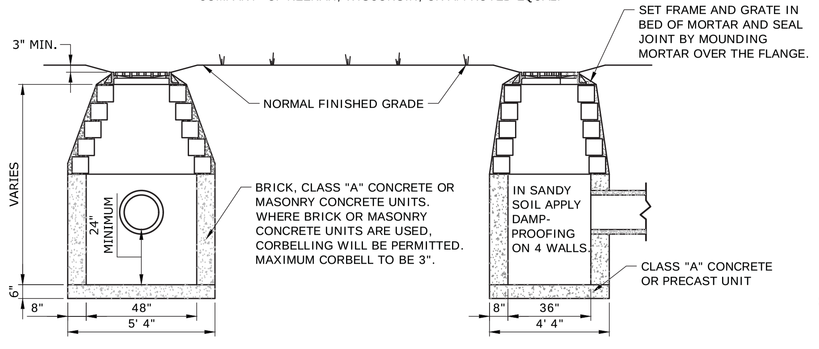
PLAN



SECTION C-C

NOTES:

1. YARD DRAIN FRAMES & GRATES SHALL BE PATTERN #R-3404 AS MANUFACTURED BY THE "NEENAH FOUNDRY COMPANY" OF NEENAH, WISCONSIN, OR APPROVED EQUAL.



SECTION A-A

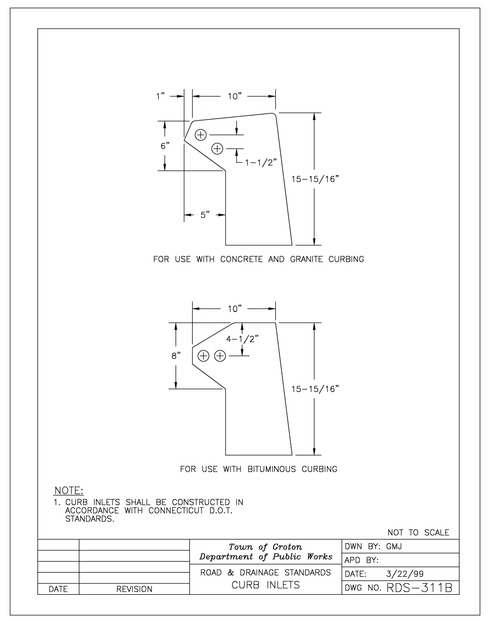
SECTION B-B

NOTES:

1. WHERE PRECAST CONCRETE UNIT IS USED FOR SUMP, THE TOP OF THE UNIT SHALL BE AT LEAST 6" BELOW THE BOTTOM OF THE PIPE OUTLETTING FROM THE CATCH BASIN.

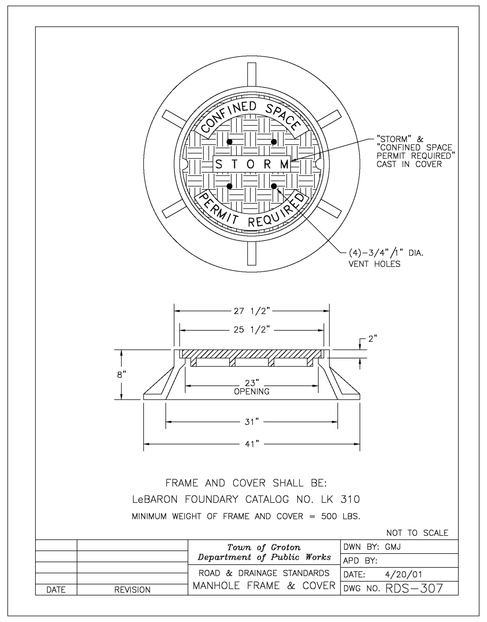
16 YARD DRAIN WITH FRAME & GRATE

NOT TO SCALE



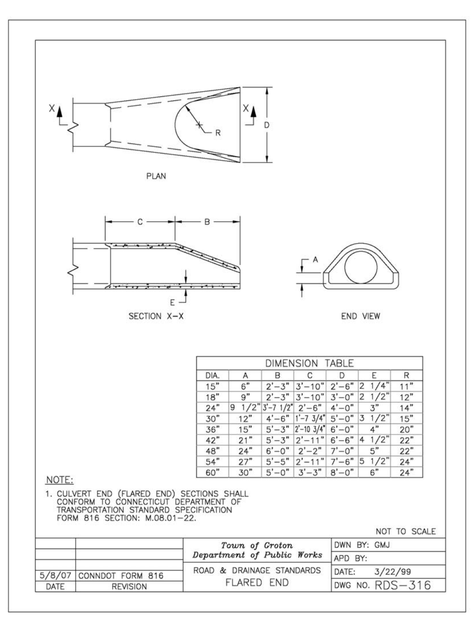
7 CURB INLETS

NOT TO SCALE



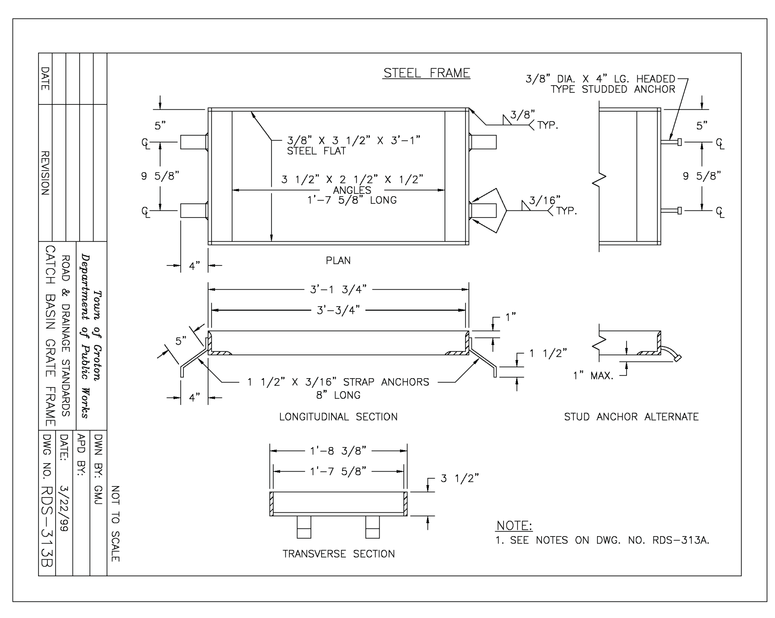
8 MANHOLE FRAME & COVER

NOT TO SCALE



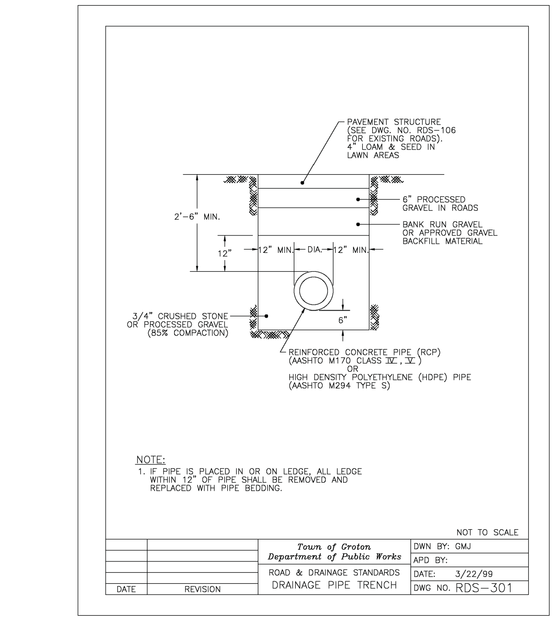
9 FLARED END SECTION

NOT TO SCALE



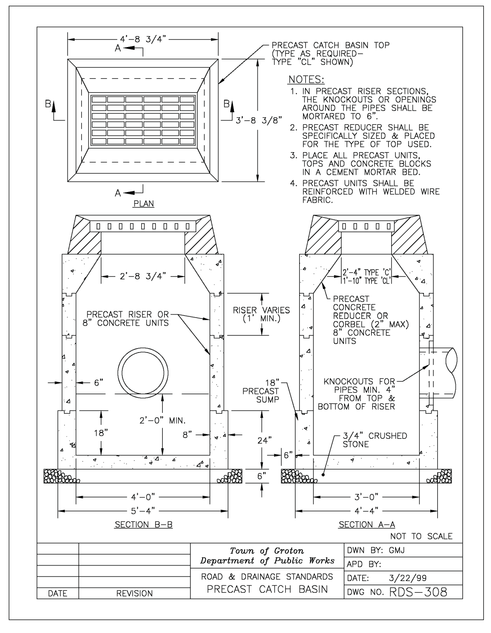
10 CATCH BASIN GRATE FRAME

NOT TO SCALE



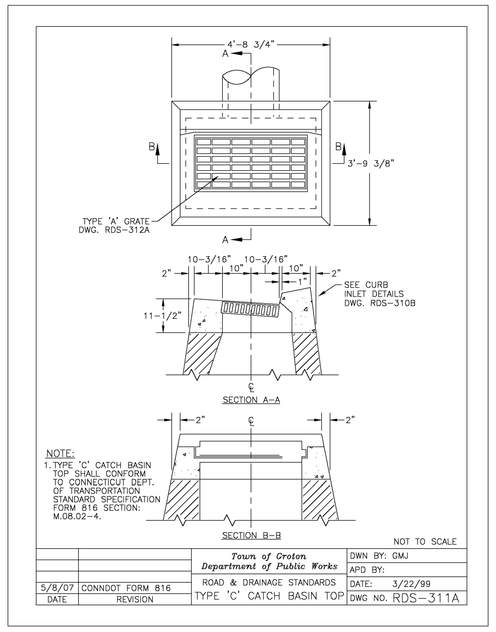
12 DRAINAGE PIPE TRENCH

NOT TO SCALE



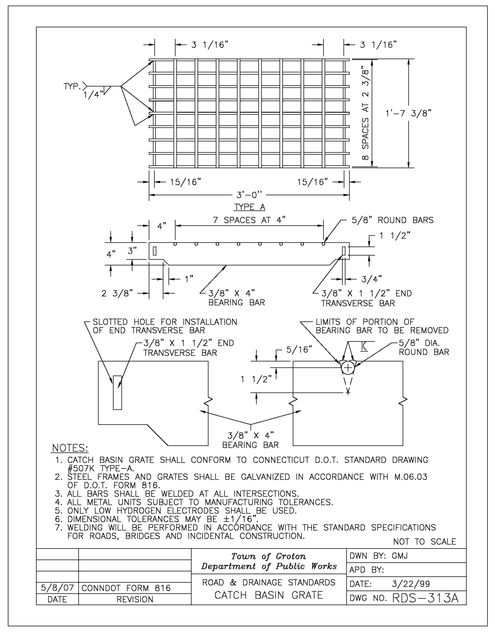
13 PRECAST CATCH BASIN

NOT TO SCALE



14 TYPE 'C' CATCH BASIN TOP

NOT TO SCALE



15 CATCH BASIN GRATE

NOT TO SCALE

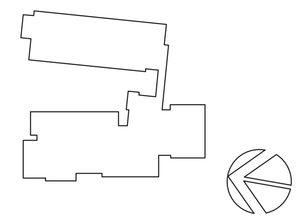
NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

MILONE & MACBROOM

99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

STATE OF CONNECTICUT
THOMAS F. DAILY
LICENSED
PROFESSIONAL ENGINEER

SEAL



KEY PLAN

PERKINS EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:

CIVIL DETAILS

SCALE: **AS NOTED**

C-202

PLANNING AND ZONING SUBMISSION

JUNE 18, 2019

FORMATION OF EMBANKMENTS FOR STORMWATER BASINS

1. MATERIALS

ALL FILL MATERIALS SHALL BE OBTAINED FROM REQUIRED EXCAVATIONS OR DESIGNATED BORROW AREAS. FILL MATERIAL SHALL CONTAIN NO FROZEN MATERIAL, SOD, BRUSH, ROOTS, OR OTHER ORGANIC MATERIAL. EARTH EMBANKMENTS SHALL CONTAIN NO STONES OR ROCK PARTICLES OVER THREE INCHES IN DIAMETER.

THE MATERIAL USED IN THE CENTER PORTION OF THE EMBANKMENT SHALL BE THE MOST IMPERVIOUS MATERIAL OBTAINED FROM THE BORROW AREAS IF REQUIRED. THE MORE PERVIOUS MATERIALS SHALL BE USED IN THE OUTER PORTION OF THE EMBANKMENT AS SHOWN ON THE PLANS.

A. IMPERVIOUS FILL MATERIALS

IMPERVIOUS FILL SHALL BE A GLACIAL TILL, AND TO BE PROVIDED FROM AN OFFSITE SOURCE IN THE QUANTITIES REQUIRED FOR COMPLETION. FILL TO BE APPROVED BY THE ENGINEER. GLACIAL TILL SHALL CONSIST OF HARD AND DURABLE PARTICLES OR FRAGMENTS AND SHALL BE FREE FROM ORGANIC MATTER AND OTHER OBJECTIONABLE MATERIALS. GLACIAL TILL SHALL GENERALLY CONFORM TO THE FOLLOWING GRADATION LIMITS:

U.S. STANDARD SIEVE SIZE	PERCENTAGE PASSING BY WEIGHT
3 INCH	100
NO. 4	60-95
NO. 10	50-95
NO. 40	30-75
NO. 100	20-65
NO. 200	10-40

2. EMBANKMENT FOUNDATION PREPARATION

AREAS WHERE EMBANKMENTS ARE TO BE FORMED SHALL BE CLEARED AND GRUBBED OF ALL TOPSOIL AND OTHER ORGANIC MATERIALS TO A DEPTH OF AT LEAST 24 INCHES. UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, FOUNDATION AREAS SHALL BE SCARIFIED TO A DEPTH OF THREE INCHES PRIOR TO PLACEMENT OF FILL MATERIAL.

3. PLACEMENT

NO FILL SHALL BE PLACED UNTIL THE FOUNDATION PREPARATION AND EXCAVATIONS IN THE FOUNDATION HAVE BEEN COMPLETED. NO FILL SHALL BE PLACED ON A FROZEN SURFACE NOR SHALL FROZEN MATERIAL BE INCORPORATED.

A. EMBANKMENT

MATERIAL SHALL BE PLACED IN HORIZONTAL LAYERS. THE THICKNESS OF LAYERS SHALL BE SIX INCHES. DURING CONSTRUCTION, THE SURFACE OF THE FILL SHALL HAVE A CROWN OR CROSS-SLOPE OF NOT LESS THAN TWO PERCENT. EACH LAYER OR LIFT SHALL EXTEND OVER THE ENTIRE AREA OF THE FILL.

THE FILL SHALL BE FREE FROM LENSES, POCKETS, STREAKS, OR LAYERS OF MATERIAL DIFFERING SUBSTANTIALLY IN TEXTURE OR GRADATION FROM THE SURROUNDING MATERIAL. THE MORE PERVIOUS MATERIAL SHALL BE PLACED IN THE OUTSIDE PORTION OF THE EMBANKMENT OR AS INDICATED ON THE DRAWINGS. THE FINISHED FILL SHALL BE SHAPED AND GRADED TO THE LINES AND GRADE SHOWN ON THE DRAWINGS.

B. BACKFILL AT THE PIPE OUTLET

BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED THREE INCHES IN THICKNESS AND SHALL BE BROUGHT UP UNIFORMLY AROUND THE OUTLET PIPE AND FLARED END SECTION

4. MOISTURE CONTROL

THE MOISTURE CONTENT OF MATERIALS IN THE EMBANKMENT SHALL BE CONTROLLED TO MEET THE REQUIREMENTS OF SECTION 5, "COMPACTION OF EMBANKMENT." WHEN NECESSARY, MOISTURE SHALL BE ADDED BY USE OF APPROVED SPRINKLING EQUIPMENT. WATER SHALL BE ADDED UNIFORMLY AND EACH LAYER SHALL BE THOROUGHLY DISKED OR HARROWED TO PROVIDE ROPER MIXING. ANY LAYER FOUND TOO WET FOR PROPER COMPACTION SHALL BE ALLOWED TO DRY BEFORE ROLLING. PLACING OR ROLLING OF MATERIAL ON EARTH FILLS WILL NOT BE PERMITTED DURING OR IMMEDIATELY AFTER RAINFALLS WHICH INCREASE THE MOISTURE CONTENT BEYOND THE LIMIT OF SATISFACTORY COMPACTION. THE EARTH FILL SHALL BE BROUGHT UP UNIFORMLY AND ITS TOP SHALL BE KEPT GRADED AND SLOPED SO THAT A MINIMUM OF RAINWATER WILL BE RETAINED THEREON. COMPACTED EARTH FILL DAMAGED BY WASHING SHALL BE ACCEPTABLY REPLACED BY THE CONTRACTOR.

5. COMPACTION

A. EMBANKMENT

EMBANKMENT MATERIAL SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY AT NEAR OPTIMUM MOISTURE CONTENT AND BY THE COMPACTION EQUIPMENT SPECIFIED HEREIN. THE COMPACTION EQUIPMENT SHALL TRAVERSE THE ENTIRE SURFACE OF EACH LAYER OF FILL MATERIAL.

APPROVED TAMPING ROLLERS SHALL BE USED FOR COMPACTING ALL PARTS OF THE EMBANKMENTS WHICH THEY CAN EFFECTIVELY REACH, THE CONTRACTOR SHALL DEMONSTRATE THE EFFECTIVENESS OF THE ROLLER BY ACTUAL SOIL COMPACTION RESULTS OF THE SOIL TO BE USED IN THE EMBANKMENT WITH LABORATORY WORK PERFORMED BY AN APPROVED SOIL TESTING LABORATORY.

B. BACKFILL AT OUTLET CONDUIT

BACKFILL SHALL BE COMPACTED BY HAND TAMPING WITH MECHANICAL TAMPERS. HEAVY EQUIPMENT SHALL NOT BE OPERATED WITHIN TWO FEET OF ANY STRUCTURE. EQUIPMENT SHALL NOT BE ALLOWED TO OPERATE OVER THE OUTLET CONDUITS UNTIL THERE IS 24 INCHES OF FILL OVER THE PIPE CONDUITS.

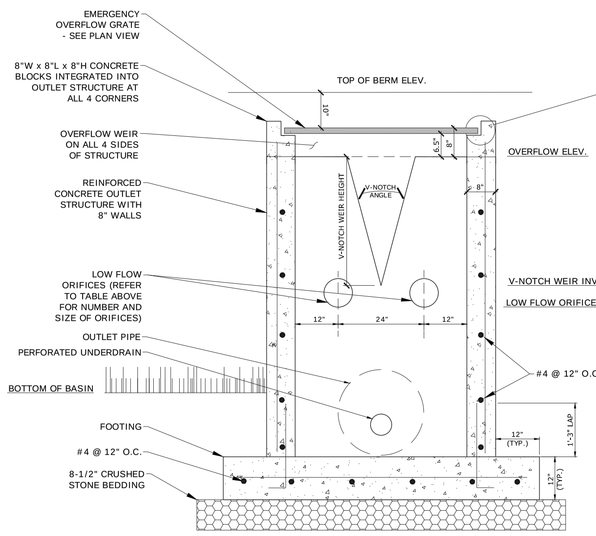
6. FINISHING EMBANKMENTS

THE EMBANKMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS, LINES, GRADES AND CROSS-SECTIONS AS SHOWN ON THE DRAWINGS. THE EMBANKMENTS SHALL BE MAINTAINED IN A MANNER SATISFACTORY TO THE ENGINEER AND SURFACES SHALL BE COMPACT AND ACCURATELY GRADED BEFORE TOPSOIL IS PLACED ON THEM. THE CONTRACTOR SHALL CHECK THE EMBANKMENT SLOPES WITH STRING LINES TO INSURE THAT THEY CONFORM TO THE SLOPES GIVEN ON THE PLANS AND ARE UNIFORM FOR THE ENTIRE LENGTH OF THE SLOPE.

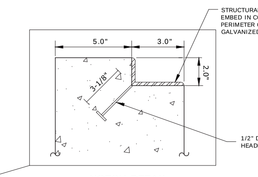
7. CONTROL OF WATER

THE PROJECT SITE IS SUBJECT TO HIGH WATER TABLE. THE CONTRACTOR SHALL USE TEMPORARY PIPES OR PUMPS TO ASSURE PLACEMENT OF SELECT FILL IN DRY CONDITIONS.

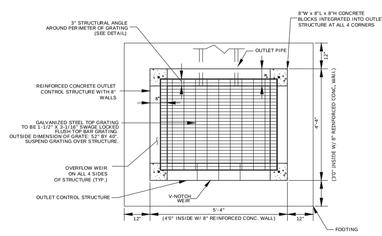
DET 200	
TOP OF BERM ELEVATION	90.0
OVERFLOW ELEVATION	88.5
100-YEAR WATER SURFACE ELEV.	88.67
V-NOTCH WEIR HEIGHT	3.0'
V-NOTCH WEIR ANGLE	30°
V-NOTCH WEIR INVERT	85.5
LOW FLOW ORIFICE DIAMETER	2 ORIF. OF 8.0"
LOW FLOW ORIFICE INVERT	85.0
BASIN BOTTOM ELEVATION	83.0
PERFORATED UNDERDRAIN DIAMETER	6"
PERFORATED UNDERDRAIN INVERT	82.0
OUTLET PIPE DIAMETER	24"
OUTLET PIPE INVERT	81.0



FRONT VIEW



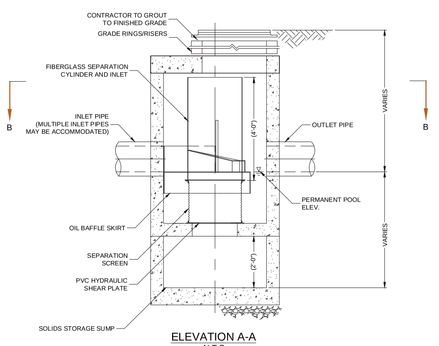
NOTCH DETAIL



PLAN VIEW

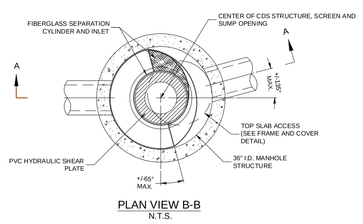
1 DETENTION BASIN OUTLET CONTROL STRUCTURE

SCALE: 1"=2'



ELEVATION A-A
N.T.S.

FRAME AND COVER
(DIAMETER VARIES)
N.T.S.



PLAN VIEW B-B
N.T.S.

NOTE:

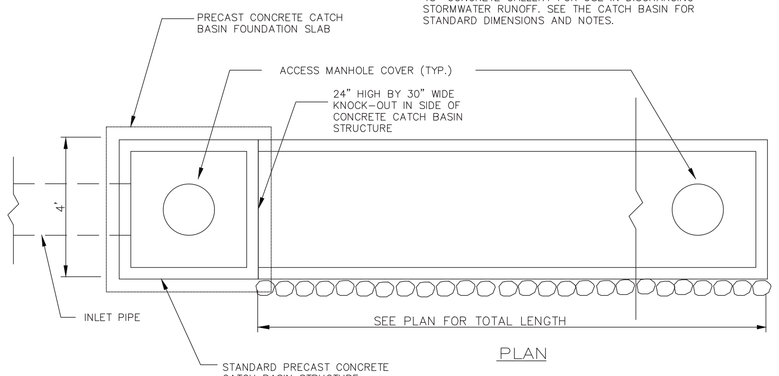
1) DETAIL REPRESENTS A TYPICAL DETAIL FROM A CDS UNIT FROM CONTECH ENGINEERED SOLUTIONS. SEE PLAN FOR CDS MODEL NUMBERS AND FOR STORM CHAMBER ALTERNATIVES.

3 WATER QUALITY STORM CHAMBER - TYPICAL

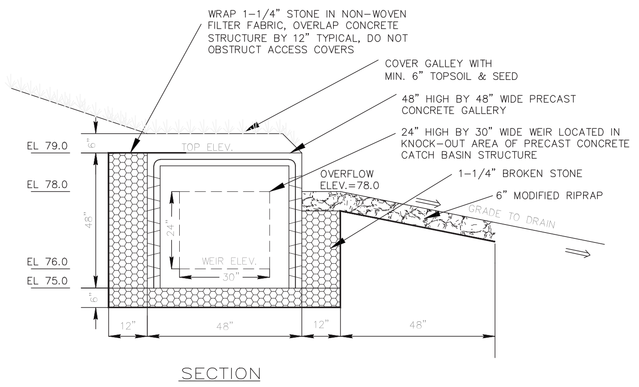
NOT TO SCALE

NOTE:

THIS DETAIL REPRESENTS A MODIFICATION OF A STANDARD CATCH BASIN STRUCTURE AND 48" BY 48" CONCRETE GALLERY FOR USE IN DISCHARGING STORMWATER RUNOFF. SEE THE CATCH BASIN FOR STANDARD DIMENSIONS AND NOTES.



PLAN

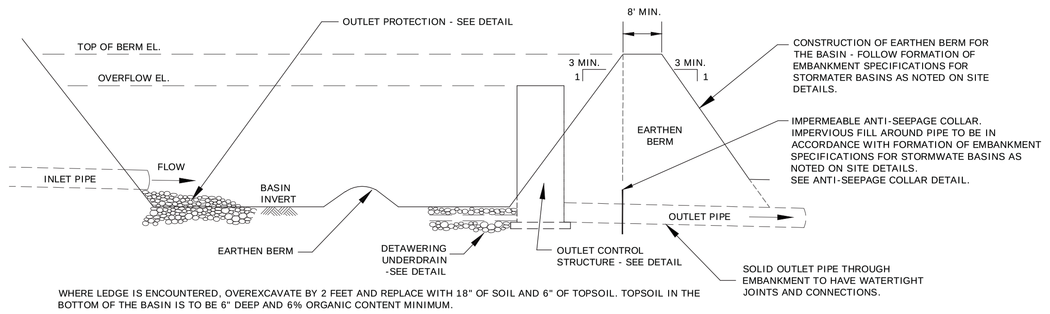


SECTION

* DIMENSIONS OF PRECAST CONCRETE GALLEY ARE BASED UPON A STANDARD 4'Wx4'Hx4'L GALLEY – UNITED CONCRETE PRODUCTS, INC. (203) 269-3119

2 TYPICAL SECTION THRU INFILTRATION GALLERY LEVEL SPREADER OUTLET

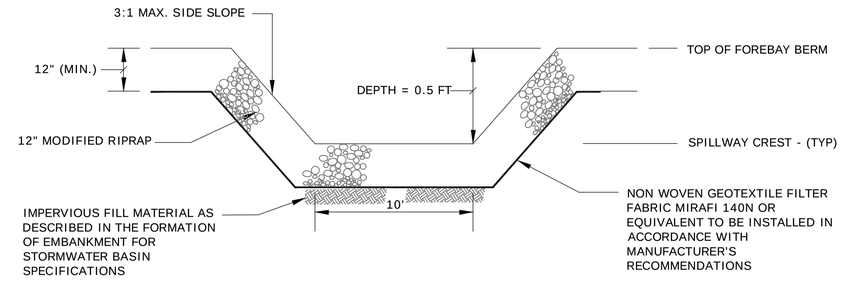
NOT TO SCALE



WHERE LEDGE IS ENCOUNTERED, OVEREXCAVATE BY 2 FEET AND REPLACE WITH 18" OF SOIL AND 6" OF TOPSOIL. TOPSOIL IN THE BOTTOM OF THE BASIN IS TO BE 6" DEEP AND 6% ORGANIC CONTENT MINIMUM.

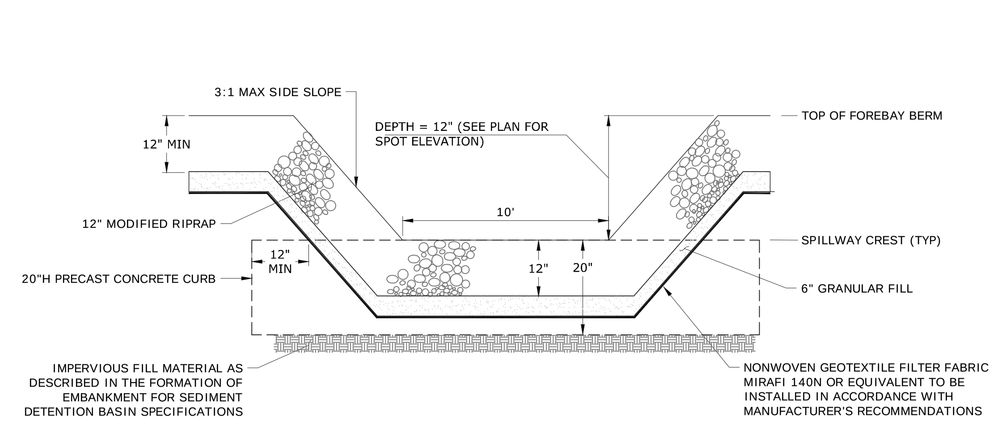
4 TYPICAL DETENTION BASIN

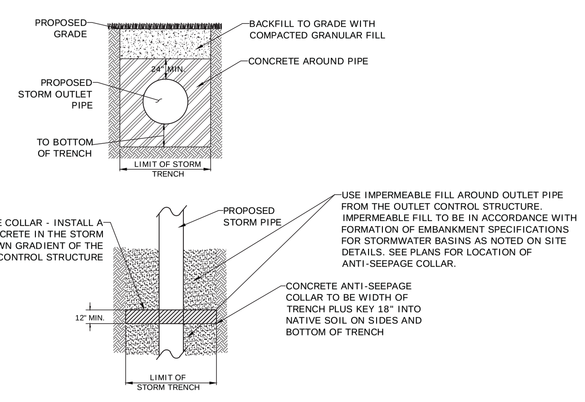
NOT TO SCALE



5 SEDIMENT FOREBAY OVERFLOW SPILLWAY

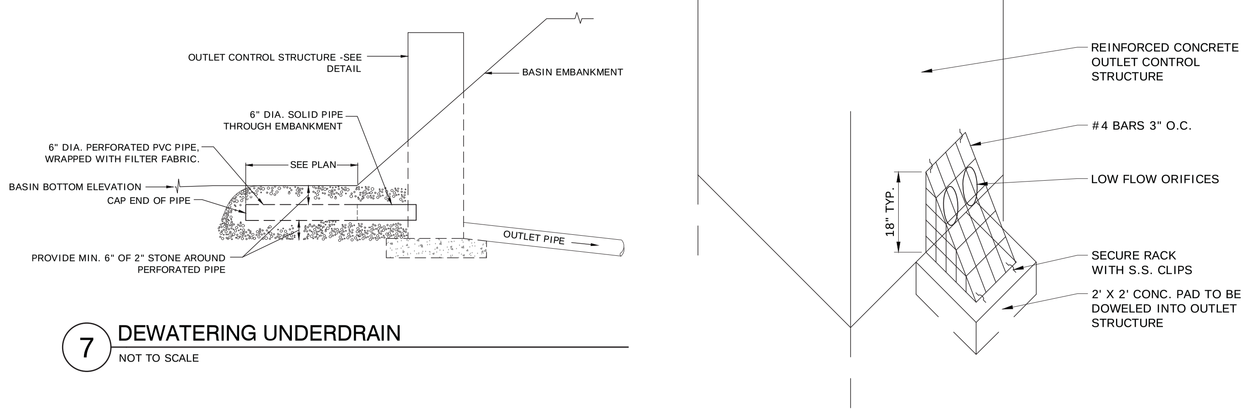
NOT TO SCALE





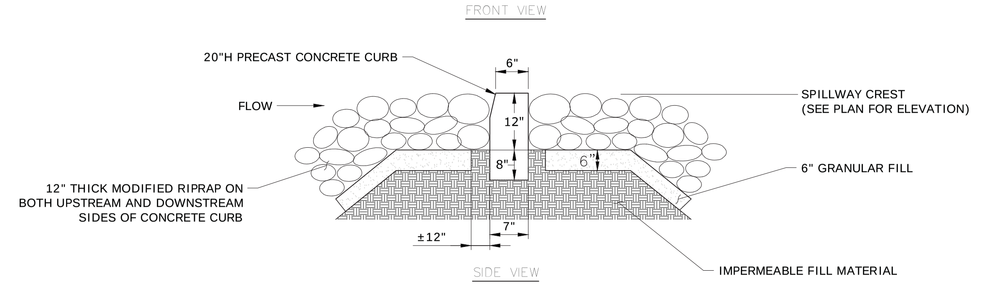
6 ANTI SEEPAGE COLLAR

NOT TO SCALE



7 DEWATERING UNDERDRAIN

NOT TO SCALE



SIDE VIEW

8 EMERGENCY RIPRAP SPILLWAY

NOT TO SCALE

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

STATE OF CONNECTICUT
THOMAS F. DALY
61729
LICENSED PROFESSIONAL ENGINEER

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:

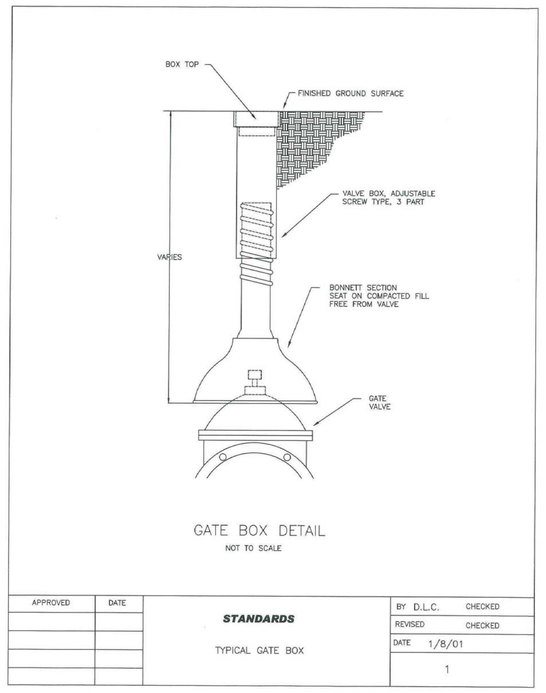
CIVIL DETAILS

SCALE: **AS NOTED**

C-203

PLANNING AND ZONING SUBMISSION

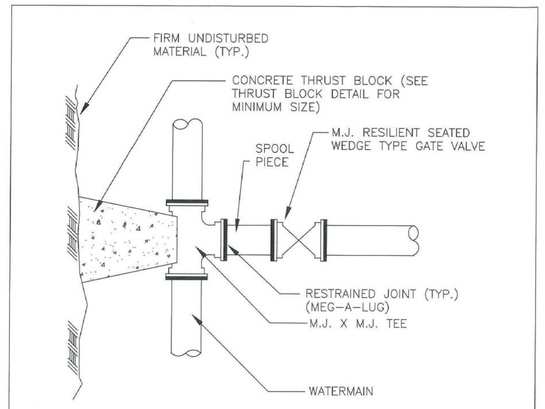
JUNE 18, 2019



GATE BOX DETAIL
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TYPICAL GATE BOX	DATE 1/8/01	
			1	

1 TYPICAL GATE BOX DETAIL
NOT TO SCALE



GATE VALVE CONNECTION DETAIL
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TYPICAL GATE VALVE CONNECTION	DATE 1/8/01	
			2	

2 GATE VALVE CONNECTION DETAIL
NOT TO SCALE

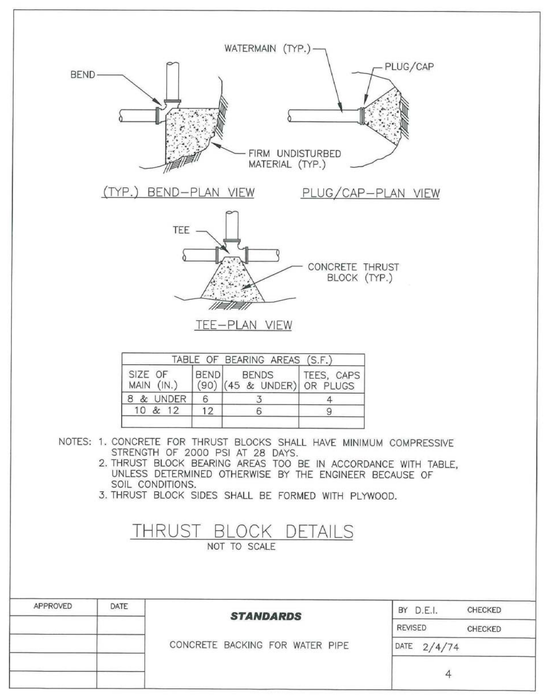


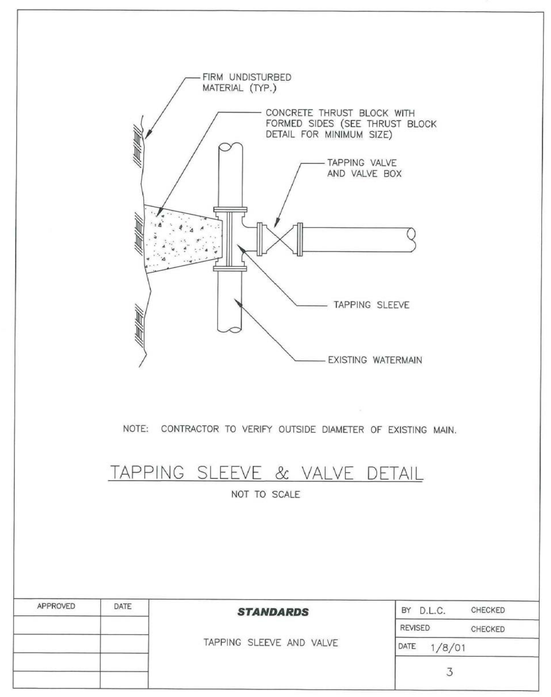
TABLE OF BEARING AREAS (S.F.)			
SIZE OF MAIN (IN.)	BEND (90)	BENDS (45 & UNDER)	TEES, CAPS OR PLUGS
8 & UNDER	6	3	4
10 & 12	12	6	9

NOTES: 1. CONCRETE FOR THRUST BLOCKS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
2. THRUST BLOCK BEARING AREAS TOO BE IN ACCORDANCE WITH TABLE, UNLESS DETERMINED OTHERWISE BY THE ENGINEER BECAUSE OF SOIL CONDITIONS.
3. THRUST BLOCK SIDES SHALL BE FORMED WITH PLYWOOD.

THRUST BLOCK DETAILS
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.E.I.	CHECKED
			REVISED	CHECKED
		CONCRETE BACKING FOR WATER PIPE	DATE 2/4/74	
			4	

3 THRUST BLOCK DETAILS
NOT TO SCALE

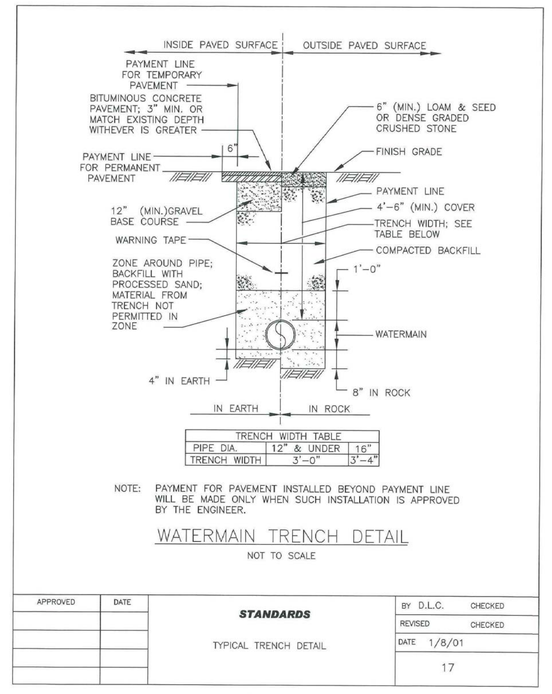


NOTE: CONTRACTOR TO VERIFY OUTSIDE DIAMETER OF EXISTING MAIN.

TAPPING SLEEVE & VALVE DETAIL
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TAPPING SLEEVE AND VALVE	DATE 1/8/01	
			3	

4 TAPPING SLEEVE & VALVE DETAIL
NOT TO SCALE



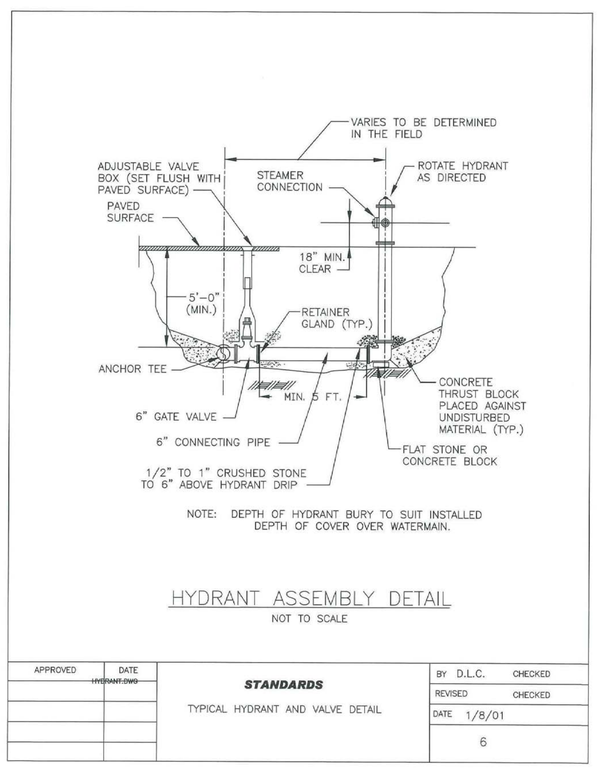
TRENCH WIDTH TABLE		
PIPE DIA.	12" & UNDER	16"
TRENCH WIDTH	3'-0"	3'-4"

NOTE: PAYMENT FOR PAVEMENT INSTALLED BEYOND PAYMENT LINE WILL BE MADE ONLY WHEN SUCH INSTALLATION IS APPROVED BY THE ENGINEER.

WATERMAIN TRENCH DETAIL
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TYPICAL TRENCH DETAIL	DATE 1/8/01	
			17	

5 TYPICAL TRENCH DETAIL
NOT TO SCALE

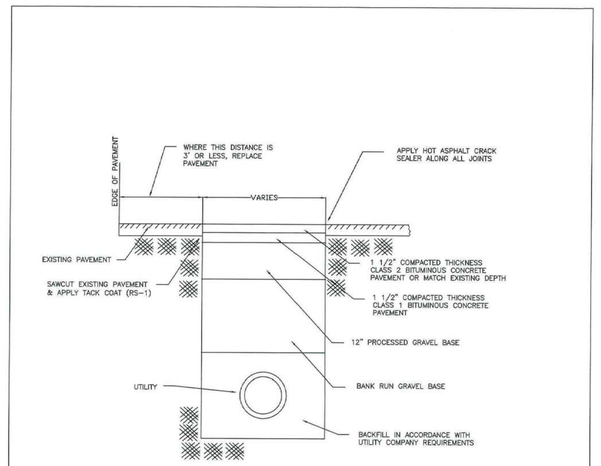


NOTE: DEPTH OF HYDRANT BURY TO SUIT INSTALLED DEPTH OF COVER OVER WATERMAIN.

HYDRANT ASSEMBLY DETAIL
NOT TO SCALE

APPROVED	DATE (HYDRANT.DWG)	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TYPICAL HYDRANT AND VALVE DETAIL	DATE 1/8/01	
			6	

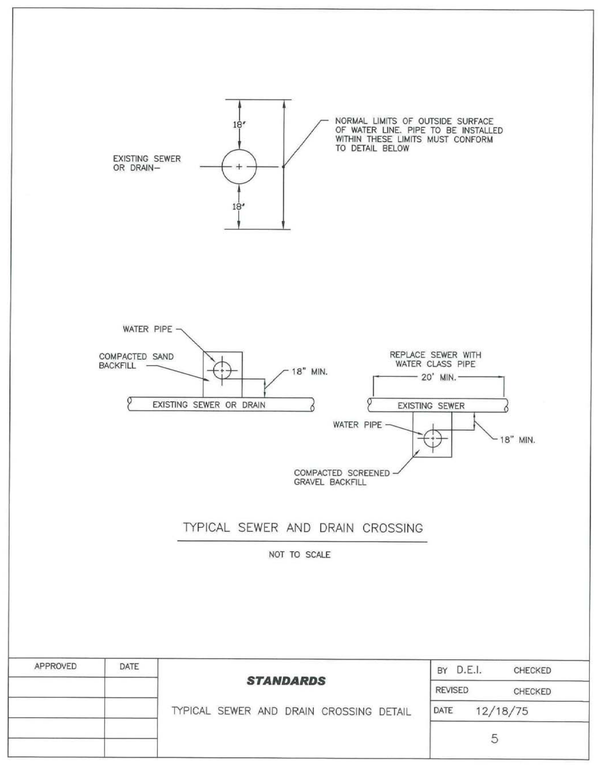
6 TYPICAL HYDRANT AND VALVE DETAIL
NOT TO SCALE



UTILITY TRENCH PATCH
NOT TO SCALE

APPROVED	DATE	STANDARDS	BY D.L.C.	CHECKED
			REVISED	CHECKED
		TYPICAL PAVEMENT REPLACEMENT	DATE 1/8/01	
			18	

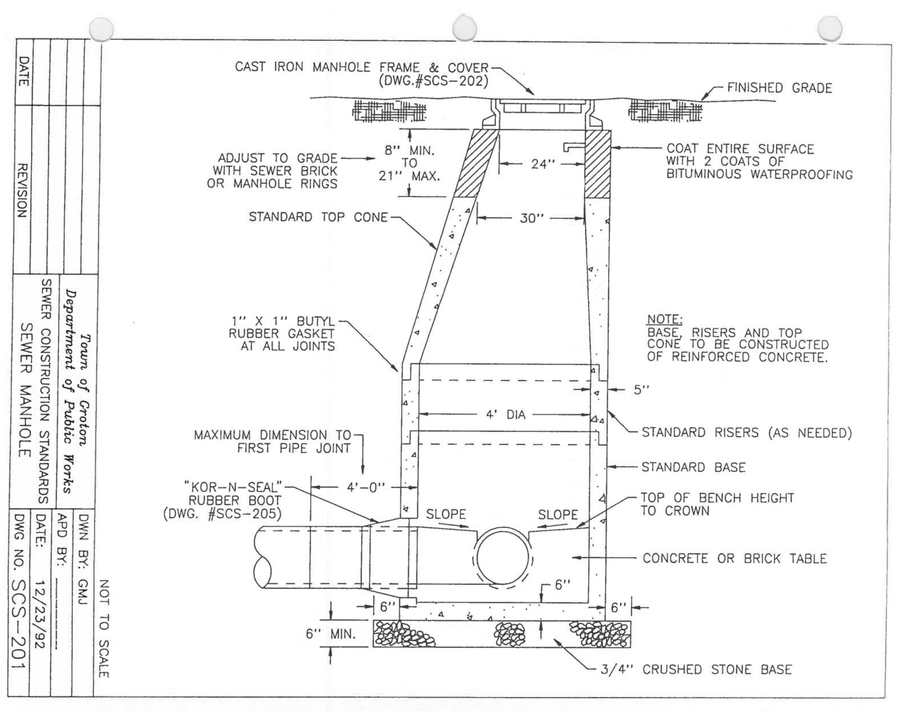
7 TYPICAL PAVEMENT REPLACEMENT
NOT TO SCALE



TYPICAL SEWER AND DRAIN CROSSING
NOT TO SCALE

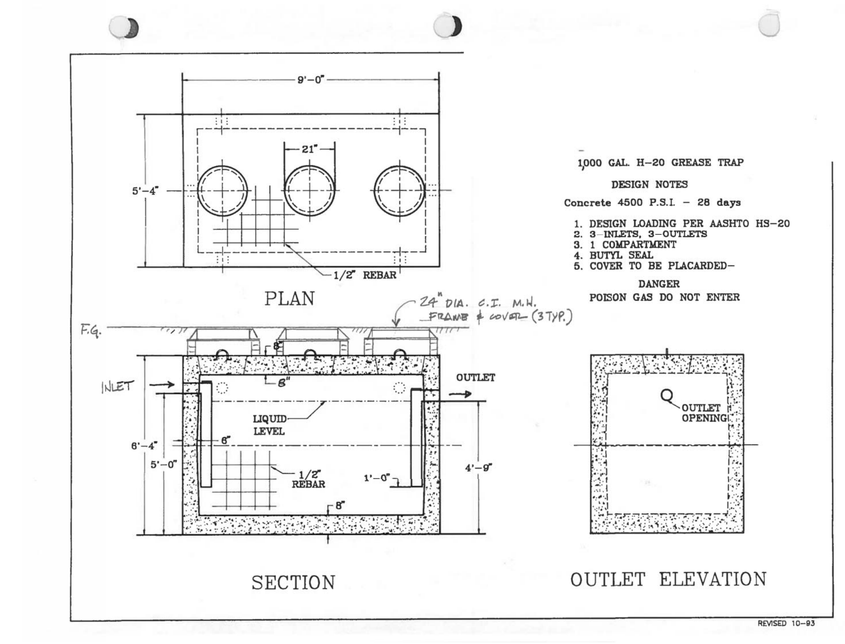
APPROVED	DATE	STANDARDS	BY D.E.I.	CHECKED
			REVISED	CHECKED
		TYPICAL SEWER AND DRAIN CROSSING DETAIL	DATE 12/18/75	
			5	

8 TYPICAL SEWER & DRAIN CROSSING DETAIL
NOT TO SCALE



DATE | REVISION | Town of Groton Department of Public Works | SEWER CONSTRUCTION STANDARDS | SEWER MANHOLE | DWG NO. SCS-201 | DWN BY: GMJ | APD BY: _____ | DATE: 12/23/92 | NOT TO SCALE

9 SEWER MANHOLE
NOT TO SCALE



1000 GAL. H-20 GREASE TRAP

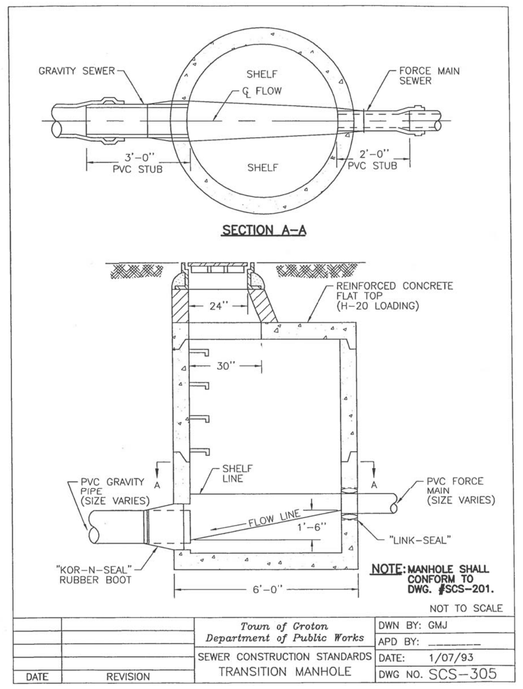
DESIGN NOTES

Concrete 4500 P.S.I. - 28 days

1. DESIGN LOADING PER AASHTO HS-20
2. 3 INLETS, 3 OUTLETS
3. 1 COMPARTMENT
4. BUTYL SEAL
5. COVER TO BE PLACARDED-
DANGER
POISON GAS DO NOT ENTER

REVISED 10-83

10 GREASE INTERCEPTOR
NOT TO SCALE

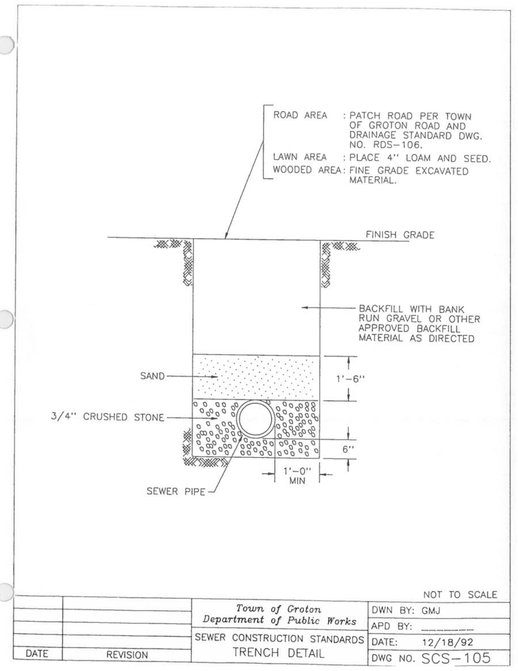


NOTE: MANHOLE SHALL CONFORM TO DWG. #SCS-201.

NOT TO SCALE

DATE | REVISION | Town of Groton Department of Public Works | SEWER CONSTRUCTION STANDARDS | TRANSITION MANHOLE | DWG NO. SCS-305 | DWN BY: GMJ | APD BY: _____ | DATE: 1/07/93

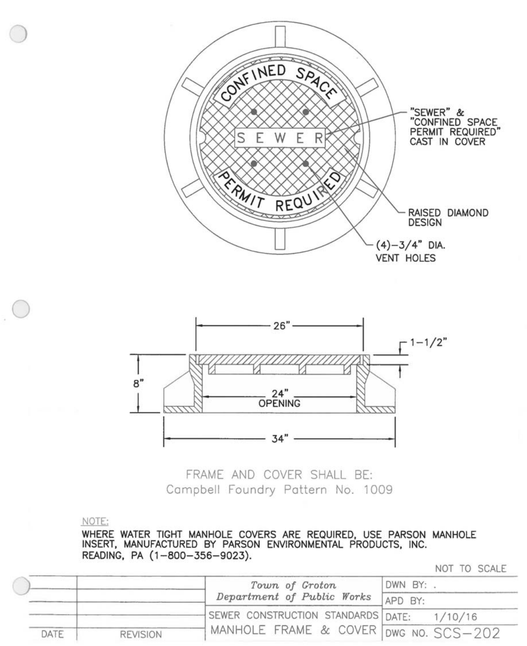
11 TRANSITION MANHOLE
NOT TO SCALE



NOT TO SCALE

DATE | REVISION | Town of Groton Department of Public Works | SEWER CONSTRUCTION STANDARDS | TRENCH DETAIL | DWG NO. SCS-105 | DWN BY: GMJ | APD BY: _____ | DATE: 12/18/92

12 SEWER MAIN TRENCH
NOT TO SCALE



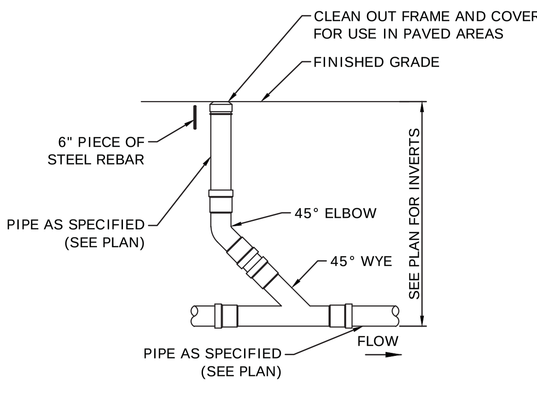
FRAME AND COVER SHALL BE: Campbell Foundry Pattern No. 1009

NOTE: WHERE WATER TIGHT MANHOLE COVERS ARE REQUIRED, USE PARSON MANHOLE INSERT, MANUFACTURED BY PARSON ENVIRONMENTAL PRODUCTS, INC. READING, PA (1-800-356-9023).

NOT TO SCALE

DATE | REVISION | Town of Groton Department of Public Works | SEWER CONSTRUCTION STANDARDS | MANHOLE FRAME & COVER | DWG NO. SCS-202 | DWN BY: _____ | APD BY: _____ | DATE: 1/10/16

13 MANHOLE FRAME & COVER
NOT TO SCALE



13 SANITARY CLEANOUT DETAIL
NOT TO SCALE

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION
2	7/26/2019	PNZ SUBMISSION

MILONE & MACBROOM
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
WWW.MMINC.COM

STATE OF CONNECTICUT · THOMAS J. DALY · LICENSED PROFESSIONAL ENGINEER · 019729

SEAL

KEY PLAN

PERKINS — EASTMAN
422 Summer Street
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

PROJECT TITLE:

WESTSIDE ELEMENTARY SCHOOL

250 Brandegee Avenue
Groton, CT 06340

PROJECT No: 74450

DRAWING TITLE:

CIVIL DETAILS

SCALE: **AS NOTED**

C-204

PLANNING AND ZONING SUBMISSION

JUNE 18, 2019

NOTES

1. SEE CIVIL DRAWINGS FOR ALL SEDIMENTATION AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO THE START OF DEMOLITION WORK.
2. SEE CIVIL DRAWINGS FOR ALL SITE UTILITY DEMOLITION/RELOCATION INFORMATION.
3. SEE ARCHITECTURE AND CIVIL DRAWINGS FOR SCHOOL BUILDING DEMOLITION.
4. ALL EXISTING TREE STUMPS TO BE REMOVED.
5. PROTECT ALL EXISTING TREES SHOWN ON THE DRAWING DESIGNATED TO REMAIN FROM ALL CONSTRUCTION ACTIVITIES.

LEGEND

- TREES TO BE REMOVED (INCLUDING STUMPS)
- TREE PROTECTION FENCE
- BITUMINOUS CONCRETE PAVEMENT TO BE REMOVED
- CONCRETE WALK/LANDING TO BE REMOVED
- GRAVEL DRIVEWAY TO BE REMOVED
- SAWCUT EDGE OF PAVEMENT

INLAND-WETLAND LIMIT

Intermittent Watercourse

REMOVE CHAIN LINK FENCE AND GATE

LAND OF TOWN OF GROTON
Tax Map 168816
Block 84
Lot 0839

200' UPLAND REVIEW AREA LIMIT

U-10 FIELD 50X80 YDS

Grass Field

REMOVE CHAIN LINK BACKSTOP

REMOVE TEAM BENCHES FOR REUSE

REMOVE CHAIN LINK FENCE

CLEAR AND GRUB AREA SHOWN FOR PROPOSED SITE IMPROVEMENTS

REMOVE CONCRETE STAIR AND HANDRAILS

REMOVE CHAIN LINK FENCE AND BOLLARDS

REMOVE BITUMINOUS WALK AND HANDRAIL

REMOVE BASKETBALL HOOPS

REMOVE CONCRETE STAIR AND HANDRAILS

REMOVE ALL CURBS

REMOVE CONCRETE SIDEWALK

CLEAR AND GRUB ALL TREES ALONG ROADWAY

FIRM Zone X (Area of Minimal Flood Hazard)

INLAND-WETLAND LIMIT

200' UPLAND REVIEW AREA LIMIT

CLEAR AND GRUB AREA SHOWN FOR PROPOSED DETENTION BASIN AND SITE IMPROVEMENTS

REMOVE STONE RETAINING WALL AND METAL RAILING

REMOVE TABLES FROM COURTYARD

REMOVE TEMPORARY CLASSROOM RAMPS AND ACCESS STAIRS. (SEE ARCHITECTURE PLANS FOR REMOVAL OF TEMPORARY CLASSROOM.)

REMOVE CONCRETE SIDEWALK

REMOVE CONCRETE STAIR AND HANDRAILS

REMOVE CONCRETE SIDEWALK

Note: All FF Elevations are Taken at the Doorway Thresholds (Typical)

REMOVE EXISTING STEEL GUIDE RAILS AND POSTS

REMOVE EXISTING STEEL GUIDE RAILS AND POSTS

REMOVE ALL TRAFFIC SIGNAGE

REMOVE ALL CURBS

REMOVE CONCRETE SIDEWALK

REMOVE STONE RETAINING WALL

REMOVE ALL BITUMINOUS WALKS
REMOVE CONCRETE SIDEWALK + BUS SHELTER PAD

REMOVE AND SALVAGE EXISTING BUS SHELTER AND BENCH TO BE RELOCATED. REFER TO L-102 FOR NEW BUS SHELTER LOCATION

Existing Portable Classroom FF=122.8

Existing Building #250

West Side Elementary School

BRANDEGEE AVENUE

MORSE AVENUE

SUTTON

MERESTONE W/DH

N/F Avery Heights Limited Partnership

N/F Carmen A. Llanos & Mildred Negron

N/F Phadealia Pearsall

N/F Paul G. Miller & Debra J. Miller

Control Point 1
Iron Pin
N 684,997.142
E 1,187,368.208

Control Point 2
Mag Nail in Bit Sidewalk
N 684,549.725
E 1,187,355.767

Control Point 9
Iron Pin
N 685,151.850
E 1,187,374.165

Benchmark
"Mag Nail in Light Pole Base
Elev.=111.10

SCALE: 1" = 30' - 0"

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT · DANIEL A. CEGAN · REG. NO. 469 · REGISTERED LANDSCAPE ARCHITECT

SEAL

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
D'Agostino & Associates
1266 E. Main Street
Stamford, CT 06902 203.539.6164

Food Service:
Foodservice Facilities International
137 Elm Place
New Canaan, CT 06840 203.972.1605

Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

LANDSCAPE PREPARATION PLAN

L-101

PLANNING & ZONING SUBMISSION

JULY 26, 2019

Z:\3018017-WEST\3DESIEV\Main\TPZ- SUBMISION\18017L-101.dwg 08/15/2019 4:32:00 PM GNicoll

NOTES

1. MINIMUM CURB RADIUS IS 3 FEET UNLESS OTHERWISE NOTED.
2. SEE CIVIL DRAWINGS FOR TRAFFIC MARKINGS PLAN.
3. ALL ROADWAYS AND TRAFFIC ISLANDS TO HAVE 6" CURBS.
4. ALL WALKWAYS TO BE CONCRETE UNLESS OTHERWISE NOTED.

LEGEND

- BITUMINOUS CONCRETE PAVEMENT (TYPE 2) + WALKS
- TREE LINE
- LAWN SEEDING
- ATHLETIC FIELDS SEED MIX

INLAND-WETLAND LIMIT
Intermittent Watercourse
WOODED SLOPE
4' HIGH CHAIN LINK DOUBLE GATE
EXISTING BALL FIELDS
FIELDS TO BE RAISED 4' AND REPLACED IN KIND
200' UPLAND REVIEW AREA LIMIT
4' HIGH CHAIN LINK FENCE
SKINNED INFIELD
6' HIGH CHAIN LINK FENCE AT BOTH BENCHES
CHAIN LINK BACKSTOP
RELOCATED EXISTING TEAM BENCHES
NEW 4' CHAIN LINK FENCE
4' HIGH CHAIN LINK FENCE ON CONCRETE RETAINING WALL (OR BLOCK WALL)
BITUMINOUS CONCRETE PAVEMENT (TYPE 1)
4" 3/4 INCH CRUSHED STONE OVER WEEDCHECK FABRIC BETWEEN WALL AND CURB
VEHICULAR GUIDERAIL (SEE CIVIL DRAWINGS)
CONCRETE STAIR WITH HANDRAIL
4' HIGH CHAIN LINK FENCE ON CONCRETE RETAINING WALL (OR BLOCK WALL)
BITUMINOUS PAVED PLAY SURFACE WITH ACRYLIC ATHLETIC COURT SURFACING
INLAND-WETLAND LIMIT
WOODED SLOPE
Intermittent Watercourse
200' UPLAND REVIEW AREA LIMIT
4' HIGH CHAIN LINK FENCE WITH 10' WIDE GATE
DETENSION BASIN
4' HIGH CHAIN LINK DOUBLE GATE
VEHICULAR GUIDERAIL (SEE CIVIL DRAWINGS)
BITUMINOUS PAVED PLAY SURFACE WITH ACRYLIC ATHLETIC COURT SURFACING
BIT. CONC. CURB
18 PARKING SPACES (INCL 1 HC SPACES)
R500'
24'
18'
8' 8' 9' TYP
20'
41.48'
BIT. CONC. CURB
R12'
R45'
R40'
CONCRETE PAVERS
FLUSH CONCRETE CURB
BITUMINOUS WALK
20'
INTEGRAL CONCRETE WALK/CURB
4' HIGH CHAIN LINK FENCE WITH GATE ON 12" WIDE FLUSH CONCRETE CURB
PRE K + K PLAY
GRADES 1-2 PLAY
CONCRETE STAIR WITH HANDRAIL AND GUARD
GRADES 3-5 PLAY
FLUSH CONCRETE CURB
9'
64'
8'
12' VINYL CLAD CHAIN LINK FENCE WITH (2) GATES SURROUNDING COURT
12" WIDE FLUSH CONCRETE CURB
R104'
R124'
FLOOR ABOVE
MOW STRIP
NEW SCHOOL BUILDING LOWER LEVEL
CONCRETE STAIR WITH HANDRAIL
8'
FLOOR ABOVE
MOW STRIP
CONCRETE RETAINING WALL (OR BLOCK WALL)
WALKWAY ABOVE
SLOPE PAVING AT GRADE
PRE K-K ENTRY
4' HIGH CHAIN LINK FENCE ON CONCRETE RETAINING WALL (OR BLOCK WALL)
4' HIGH CHAIN LINK GATE
R60'
RAMP
BUS DROP-OFF LANE
4' HIGH CHAIN LINK FENCE
FLUSH CONCRETE CURB
CONCRETE CURB
BITUMINOUS WALK
BIT. CONC. CURB
FLUSH BITUMINOUS WALK
BITUMINOUS CONCRETE PAVEMENT (TYPE 1)
R90'
R66'
R44'
INTEGRAL CONCRETE WALK/CURB
104 PARKING SPACES (INCL 5 HC SPACES)
9' 8' 8' TYP TYP TYP
BIT. CONC. CURB
R18'
BIT. CONC. CURB
4' HIGH CHAIN LINK FENCE ON CONCRETE RETAINING WALL (OR BLOCK WALL)
MOW STRIP
CONCRETE WALK (TYPE 2)
MOW STRIP
NEW SCHOOL BUILDING MAIN LEVEL
MAIN ENTRY
4' SIDE YARD SETBACK
GEN
17'
6"
42'
25'
SERVICE YARD
CONCRETE WALK TYPE 1
ACCESSIBLE LOADING ZONE
RAMP
FLAGPOLE
BITUMINOUS WALK
BIT. CONC. CURB (TYP.)
R30'
BIT. CONC. CURB
BITUMINOUS CONCRETE PAVEMENT (TYPE 1)
PARENT DROP-OFF LANE
CONCRETE STAIR WITH HANDRAIL
CONCRETE WALK (TYPE 1)
CONCRETE CURB
BIT. CONC. CURB
R20'
R30'
INTEGRAL CONCRETE WALK/CURB
INTEGRAL CONCRETE WALK/CURB
GUIDERAIL (SEE CIVIL DRAWINGS)
BITUMINOUS CONCRETE PAVEMENT (TYPE 1)
INTEGRAL CONCRETE WALK/CURB
16'
50'
CONCRETE WALK (TYPE 1) 16' X 7' X 8" THICK PAD FOR RELOCATED BUS SHELTER
INTEGRAL CONCRETE WALK/CURB
R18'
R15'
25' FRONT YARD SETBACK
BRANDEGEE AVENUE
4' HIGH CHAIN LINK FENCE
BITUMINOUS CONCRETE PAVEMENT (TYPE 1)

DEVELOPMENT SUMMARY

			ALLOWED	PROPOSED
PARCEL SIZE:	±40.47 Ac	BLDG COVERAGE:	25%	2.5%
ZONE:	R-5.2	FRONT YARD:	25'	25'
PARKING:	122 TOTAL	SIDE YARD:	4'	4'
STANDARD:	116	REAR YARD:	25'	25'
HANDICAP:	6			

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT DANIEL A. CEGAN LICENSED LANDSCAPE ARCHITECT NO. 483

SEAL

0 15 30 60'
SCALE: 1" = 30' - 0"

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
D'Agostino & Associates
1266 E. Main Street
Stamford, CT 06902 203.539.6164

Food Service:
Foodservice Facilities International
137 Elm Place
New Canaan, CT 06840 203.972.1605

Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
788 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

LANDSCAPE MATERIALS/ LAYOUT PLAN

L-102

PLANNING & ZONING SUBMISSION

JULY 26, 2019

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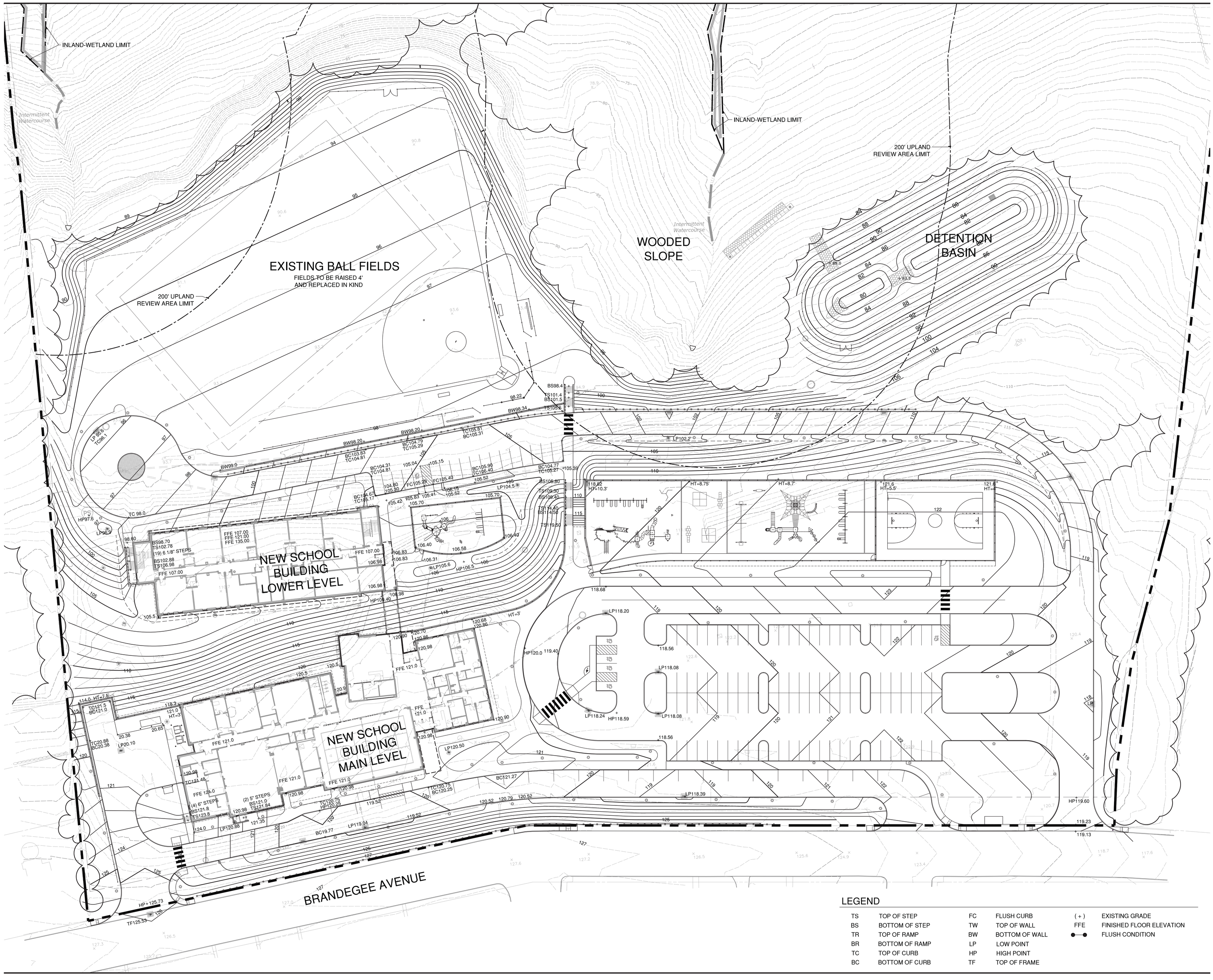

LEGEND

TS	TOP OF STEP	FC	FLUSH CURB	(+)	EXISTING GRADE
BS	BOTTOM OF STEP	TW	TOP OF WALL	FFE	FINISHED FLOOR ELEVATION
TR	TOP OF RAMP	BW	BOTTOM OF WALL	●—●	FLUSH CONDITION
BR	BOTTOM OF RAMP	LP	LOW POINT		
TC	TOP OF CURB	HP	HIGH POINT		
BC	BOTTOM OF CURB	TF	TOP OF FRAME		

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT — DANIEL A. CEGAN — REG. NO. 469 — REGISTERED LANDSCAPE ARCHITECT

SEAL

0 15 30 60'

SCALE: 1" = 30' - 0"

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
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Stamford, CT 06902 203.539.6164

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Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

LANDSCAPE GRADING PLAN

L-103

PLANNING & ZONING SUBMISSION

JULY 26, 2019

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NOTES

1. ALL EXTERIOR GROUND AREAS DISTURBED BY CONSTRUCTION AND NOT COVERED BY BUILDINGS, STRUCTURES, PAVING, CONTINUOUS PLANTING BEDS OR OTHER SITE IMPROVEMENTS SHALL BE GRADED, TOPSOILED WITH PLANTING SOIL TO A DEPTH OF 6" AND SEEDED.
2. ALL PLANT BEDS AND LAWN AREAS IN PARKING LOT ISLANDS TO BE TOP SOILED WITH PLANTING SOIL TO A DEPTH OF 18".
3. MULCH ALL NEW PLANT BEDS TO ACHIEVE A 3" DEPTH (AFTER SETTLEMENT) FOR TREES AND SHRUBS, AND A 2" DEPTH (AFTER SETTLEMENT) FOR PERENNIAL AND GROUNDCOVER BEDS. MULCH FOR SAUCERS AND PLANTING AREAS TO BE DOUBLE GROUNDED SHREDDED BARK MULCH.
4. ALL LAWN AND PLANTING AREA SOIL PREPARATION SHALL BE FERTILIZED AND AMENDED ACCORDING TO THE RECOMMENDATIONS OF A SOIL ANALYSIS PROVIDED BY AN APPROVED SOIL TESTING LABORATORY AND APPROVED BY THE LANDSCAPE ARCHITECT.
5. PROVIDE MAINTENANCE/MOW STRIP ALONG ALL PERIMETER WALLS WHICH ABUT LAWN AREAS.
6. SEE L-505 FOR PLANTING SCHEDULE AND FESCUE AND WETMIX SEED MIXES.

INLAND-WETLAND LIMIT

Intermittent Watercourse

200' UPLAND REVIEW AREA LIMIT

EXISTING BALL FIELDS

FIELDS TO BE RAISED 4' AND REPLACED IN KIND

WOODED SLOPE

NATIVE FESCUE SEED MIX SURROUNDING DETENTION POND AND SLOPES BEHIND PLAYGROUNDS BY PRAIRIE NURSERY, INC.

BASIN BOTTOM TO BE SEEDED WITH NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS, INC.

NEW SCHOOL BUILDING LOWER LEVEL

NEW SCHOOL BUILDING MAIN LEVEL

SHRUB BED

SHRUB BEDS

BRANDEGEE AVENUE

1 AR
4 AR
1 AS
3 BN
4 PS
3 ZS
2 ZS
3 QP
3 QP
6 UP
4 TC
3 PA
28 TGG

LEGEND

- PROPOSED SHADE TREE
- PROPOSED EVERGREEN TREE
- LAWN SEEDING
- TREE LINE
- PROPOSED SHADE TREE
- ATHLETIC FIELDS SEED MIX
- MASS SHRUB PLANTING

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT · DANIEL A. CEGAN · REGISTERED LANDSCAPE ARCHITECT · NO. 463

SEAL

SCALE: 1" = 30' - 0"

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
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Owner:
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Torrington, CT 06790 860.489.9261

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Chesire, CT 06410 203.271.1773

Landscape:
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Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

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Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

LANDSCAPE PLANTING PLAN

L-104

PLANNING & ZONING SUBMISSION

JULY 26, 2019

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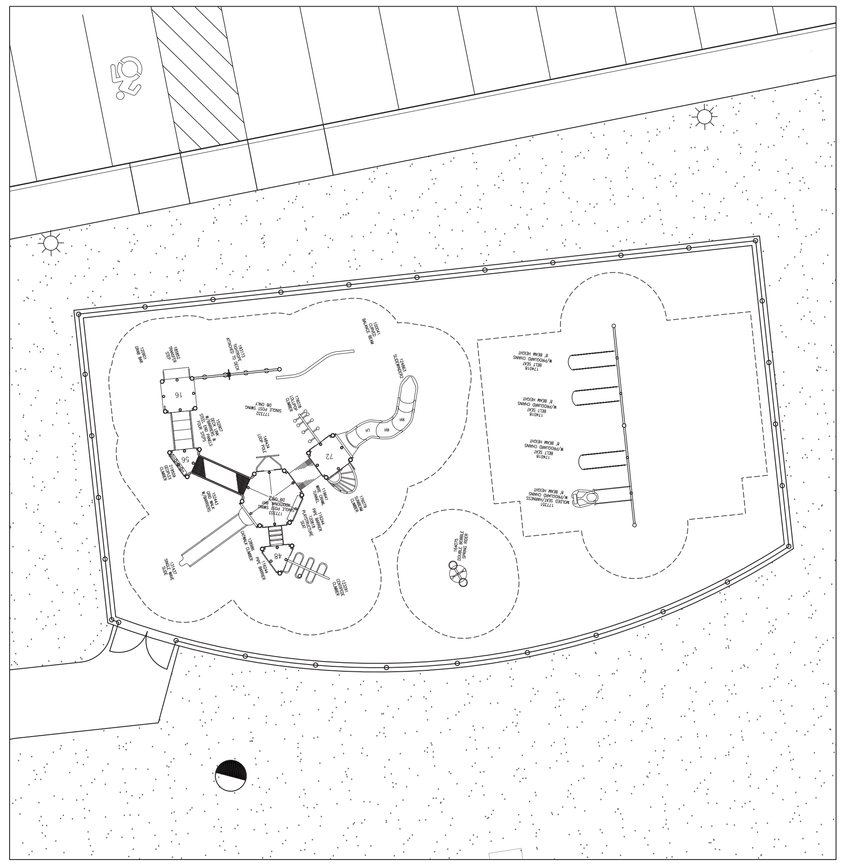
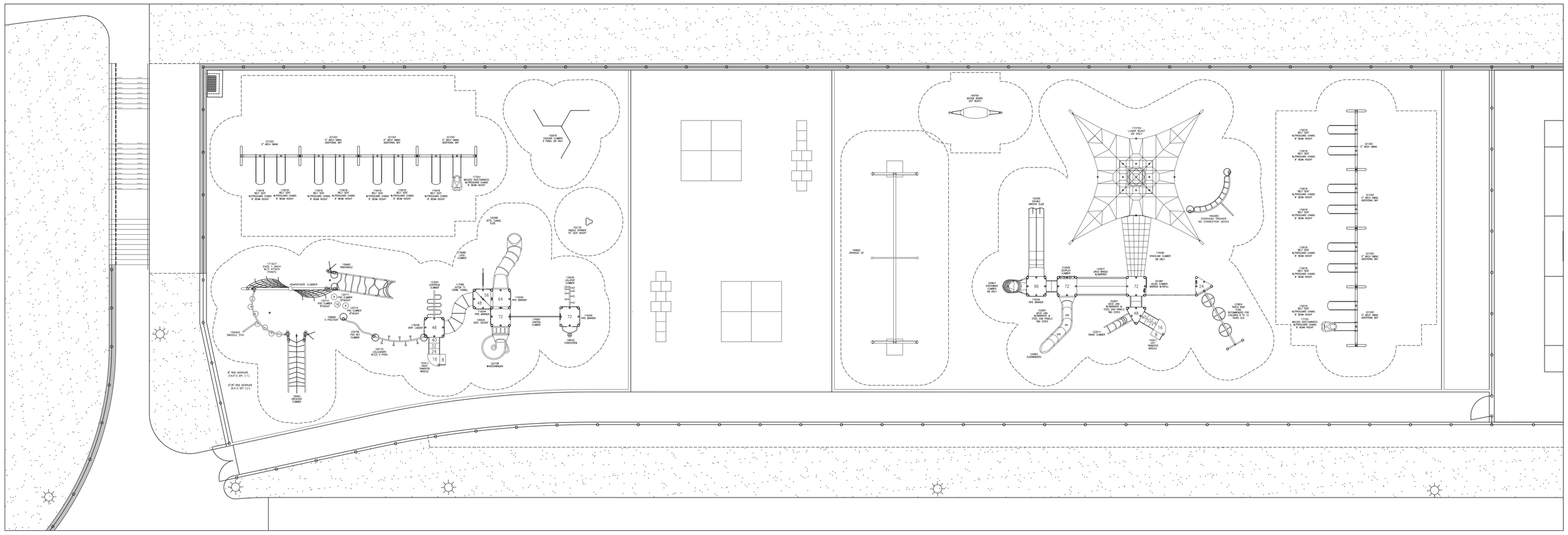


GRADES PRE K-K AREA

TOTAL ELEVATED PLAY COMPONENTS 11			
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	9	REQUIRED	6
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	7	REQUIRED	4
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	4	REQUIRED	4



GRADES 1-2 AREA

TOTAL ELEVATED PLAY COMPONENTS 10			
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	7	REQUIRED	5
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	20	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	5	REQUIRED	5

GRADES 3-5 AREA

TOTAL ELEVATED PLAY COMPONENTS 9			
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP	0	REQUIRED	0
TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER	7	REQUIRED	5
TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN	12	REQUIRED	3
TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS	5	REQUIRED	5

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NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

SEAL

0 5 10 20'
SCALE: 1" = 10' - 0"

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677 Washington Blvd, Suite 101
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Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

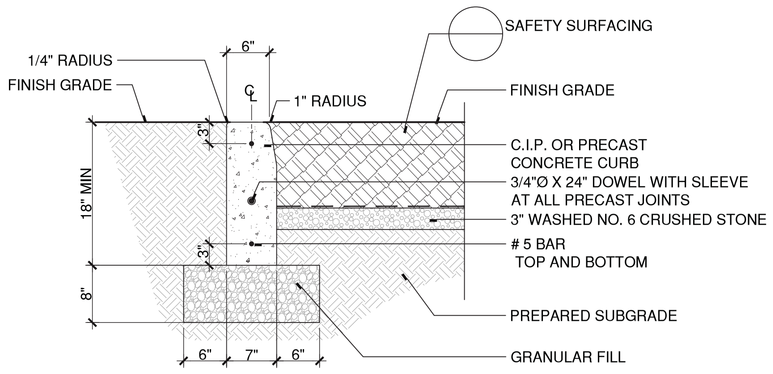
DRAWING TITLE:

LANDSCAPE PLAYGROUND EQUIPMENT

L-105

PLANNING & ZONING SUBMISSION

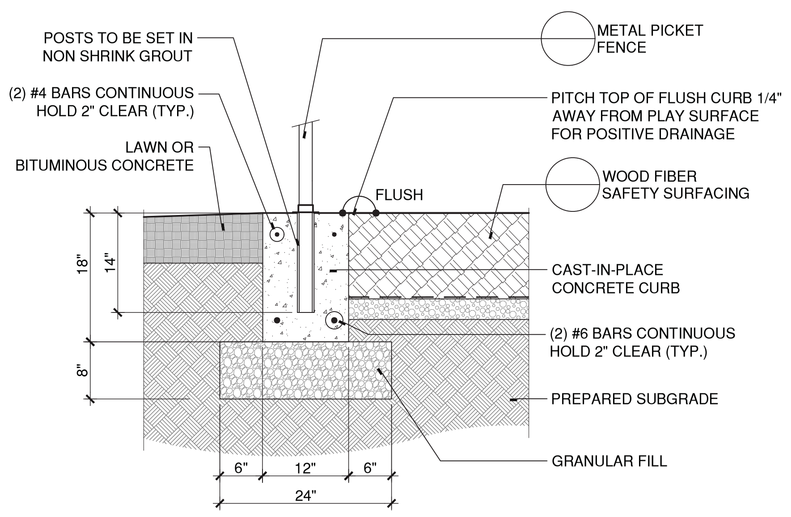
JULY 26, 2019



NOTE: MAXIMUM CURB LENGTH IS 10'-0"

FLUSH CONCRETE CURB

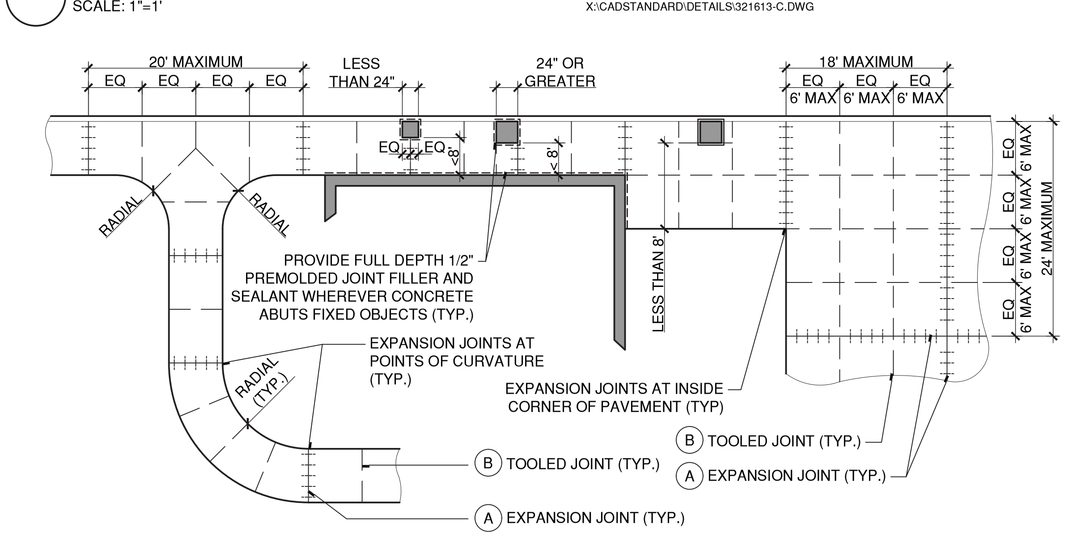
SCALE: 1"=1' Z:\2016028\DETAILS\321613-A.DWG



NOTE: MAXIMUM CURB LENGTH IS 10'-0"

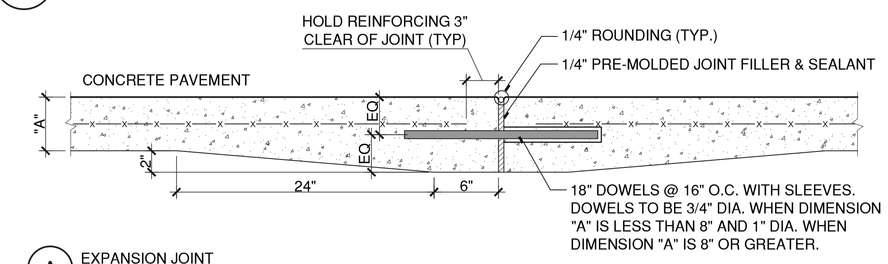
12" FLUSH CONCRETE CURB

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321613-C.DWG

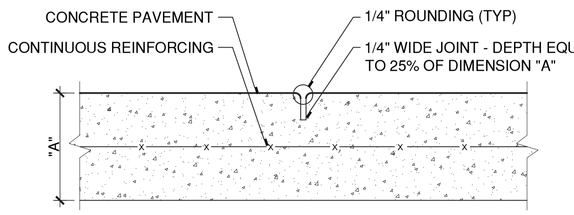


TYPICAL JOINT PLACEMENT IN CONCRETE

SCALE: 1/8"=1' X:\CADSTANDARD\DETAILS\321313-C.DWG



A EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



B TOOLED JOINT
Scale: 3" = 1'-0"

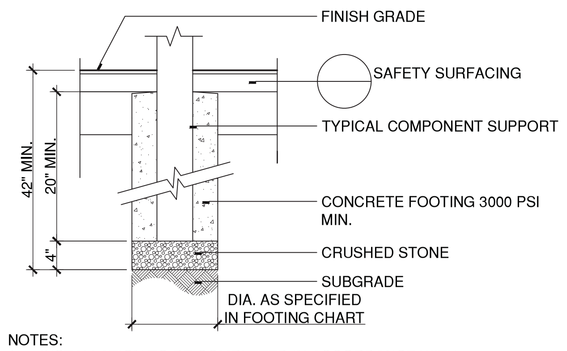
NOTES:
1. INSTALL TOOLED JOINTS AT SPACING EQUAL TO THE WALK WIDTH, UP TO A MAXIMUM OF 6 FEET, UNLESS DIMENSIONED OTHERWISE.
2. INSTALL EXPANSION JOINTS WITHIN THE TOOLED JOINT SPACING MODULE UP TO A MAXIMUM SPACING OF 20 FEET.
3. TYPICAL SPACING :

WALK WIDTH	EXPANSION JOINT SPACING
4'	20' (5 PANELS @ 4')
5'	20' (4 PANELS @ 5')
6'	18' (3 PANELS @ 6')

4. INSTALL FULL DEPTH 1/2" PREMOLDED JOINT FILLER AND SEALANT WHEREVER PAVEMENT ABUTS FIXED OBJECTS.
5. SEE TYPICAL JOINT PLACEMENT DETAIL

CONCRETE JOINT DETAILS

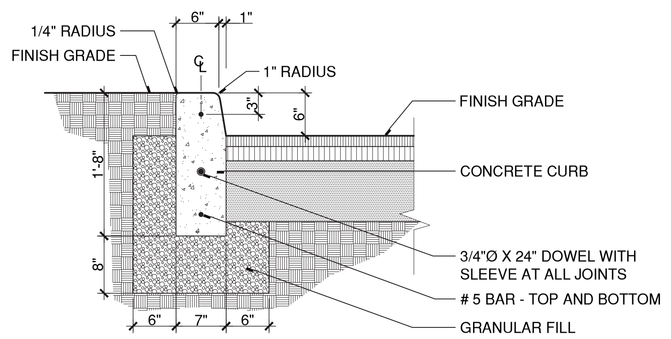
SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321313-B.DWG



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.

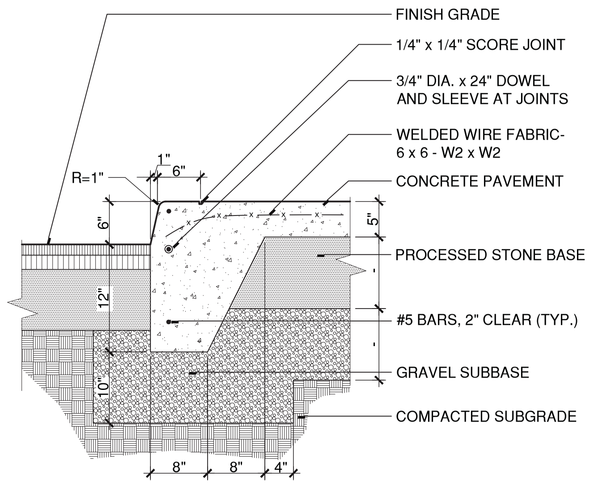
PLAY COMPONENT FOOTING

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\116500-A.DWG



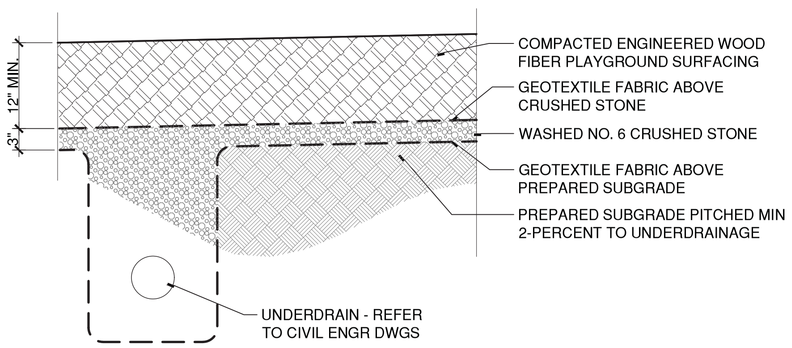
CONCRETE CURB

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321613-A.DWG



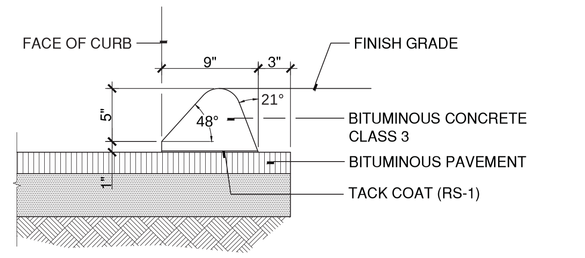
INTEGRAL CONCRETE WALK / CURB

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321613-B.DWG



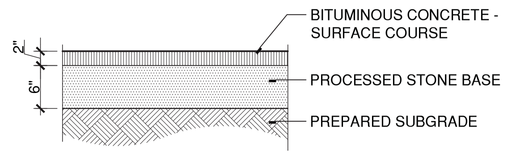
SAFETY SURFACING

SCALE: 1"=1' Z:\20180024\CONDOC\Details\EWF SURF.dwg



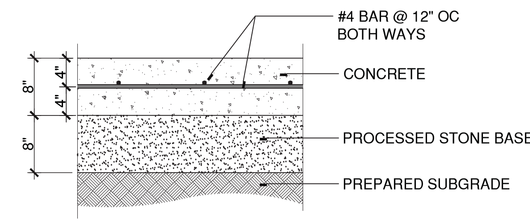
BITUMINOUS CURB

SCALE: 1 1/2"=1' X:\CADSTANDARD\DETAILS\321619-A.DWG



BITUMINOUS CONCRETE SIDEWALK

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321216-A.DWG



NOTE: SEE FOR JOINT DETAILS AND LOCATIONS

CONCRETE WALK TYPE 2

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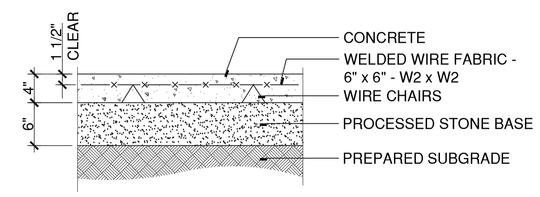
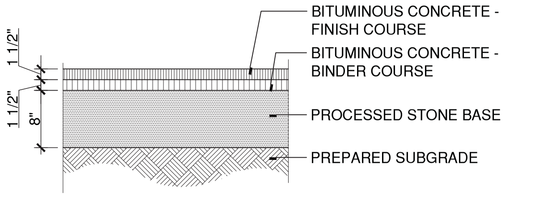


NOTE: SEE FOR JOINT DETAILS AND LOCATIONS

CONCRETE WALK TYPE 1

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321313-A.DWG



BITUMINOUS CONCRETE PAVEMENT TYPE 1

SCALE: 1"=1' X:\CADSTANDARD\DETAILS\321216-A.DWG

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT — DANIEL A. CEGAN — REGISTERED LANDSCAPE ARCHITECT — NO. 445

SEAL

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Owner:
Town of Groton
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Sustainability Consultant:
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798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

SITE DETAILS

L-501

PLANNING AND ZONING SUBMISSION

JULY 26, 2019

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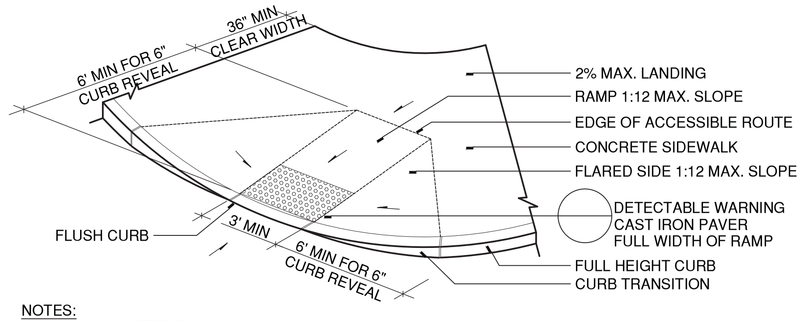

NOTES:
1. MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.
2. 2% MAX. CROSS SLOPE
3. 5% MAX. COUNTER SLOPE

DIAGONAL DROPPED CURB RAMP

SCALE: 1"=1'

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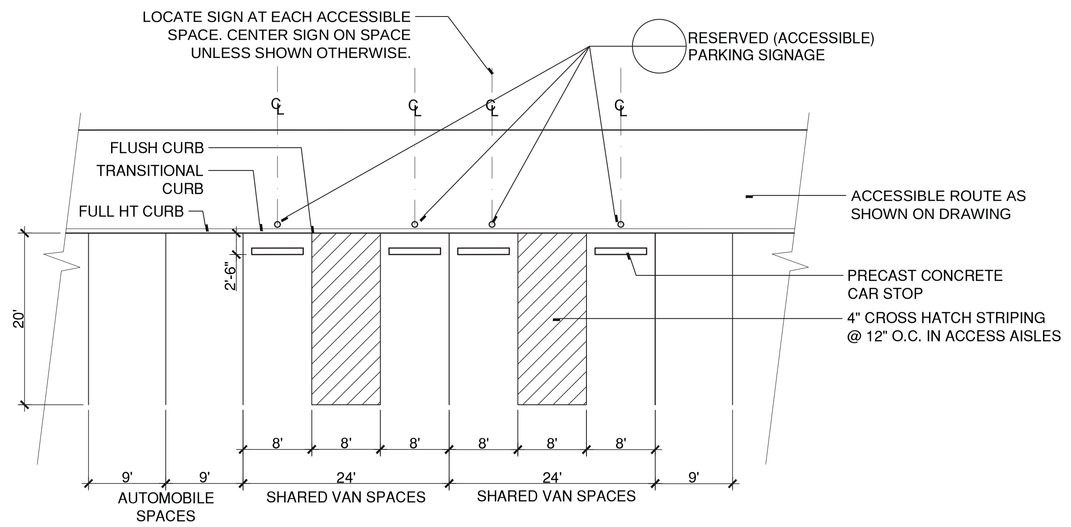
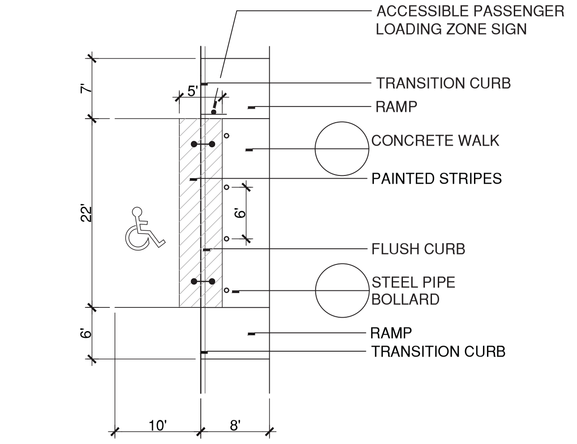


NOTES:
1. PITCH PAVEMENT NO MORE THAN A 2% SLOPE ANY DIRECTION.
2. COLOR OF STRIPING SHALL BE WHITE.

ACCESSIBLE PARKING SPACES (VANS)

SCALE: 1"=10'

X:\CADSTANDARD\DETAILS\321723-B-van.DWG



NOTE:
ACCESSIBLE PASSENGER LOADING SPACE, ACCESS AISLE AND ADJOINING ACCESSIBLE WALKWAYS SHALL HAVE SMOOTH, FLUSH TRANSITIONS BETWEEN THEM AND SHALL NOT SLOPE MORE THAN 2 PERCENT IN ANY DIRECTION.

ACCESSIBLE PASSENGER LOADING ZONE LAYOUT

SCALE: 1"=10'

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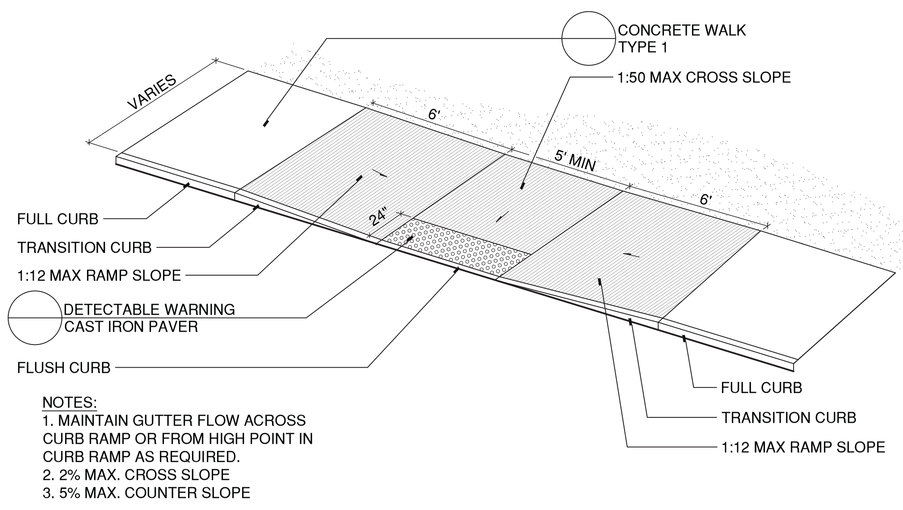
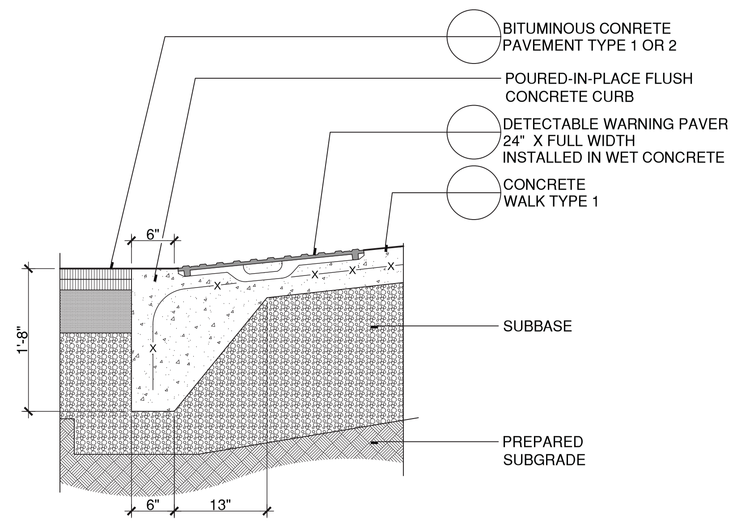


NOTES:
1. MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.
2. 2% MAX. CROSS SLOPE
3. 5% MAX. COUNTER SLOPE

FULL WIDTH CURB RAMP ON TANGENT

SCALE: 1"=1'

Z:\2013031\DETAILS\018916-D.DWG



DETECTABLE WARNING PAVER AT CONCRETE CURB RAMP

SCALE: 1"=1'

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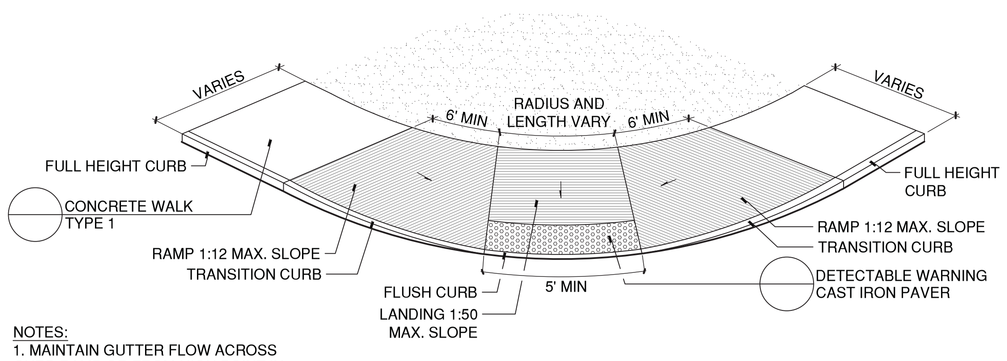
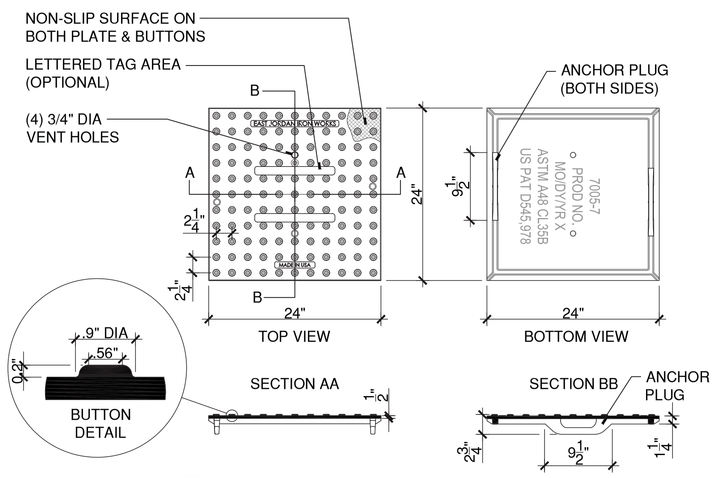


NOTES:
1. MAINTAIN GUTTER FLOW ACROSS CURB RAMP OR FROM HIGH POINT IN CURB RAMP AS REQUIRED.
2. 2% MAX. CROSS SLOPE
3. 5% MAX. COUNTER SLOPE

FULL WIDTH CURB RAMP ON RADIUS

SCALE: 1"=1'

Z:\2013031\DETAILS\018916-H.DWG



NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. FOR PRODUCT AND COMPANY INFORMATION VISIT www.EJIW.COM (PRODUCT NUMBER 7005-7).
4. 4. EAST JORDON IRON WORKS, INC., 301 SPRING STREET, EAST JORDON, MI 1-800-626-4653.

DETECTABLE WARNING PAVER

SCALE: 1"=1'

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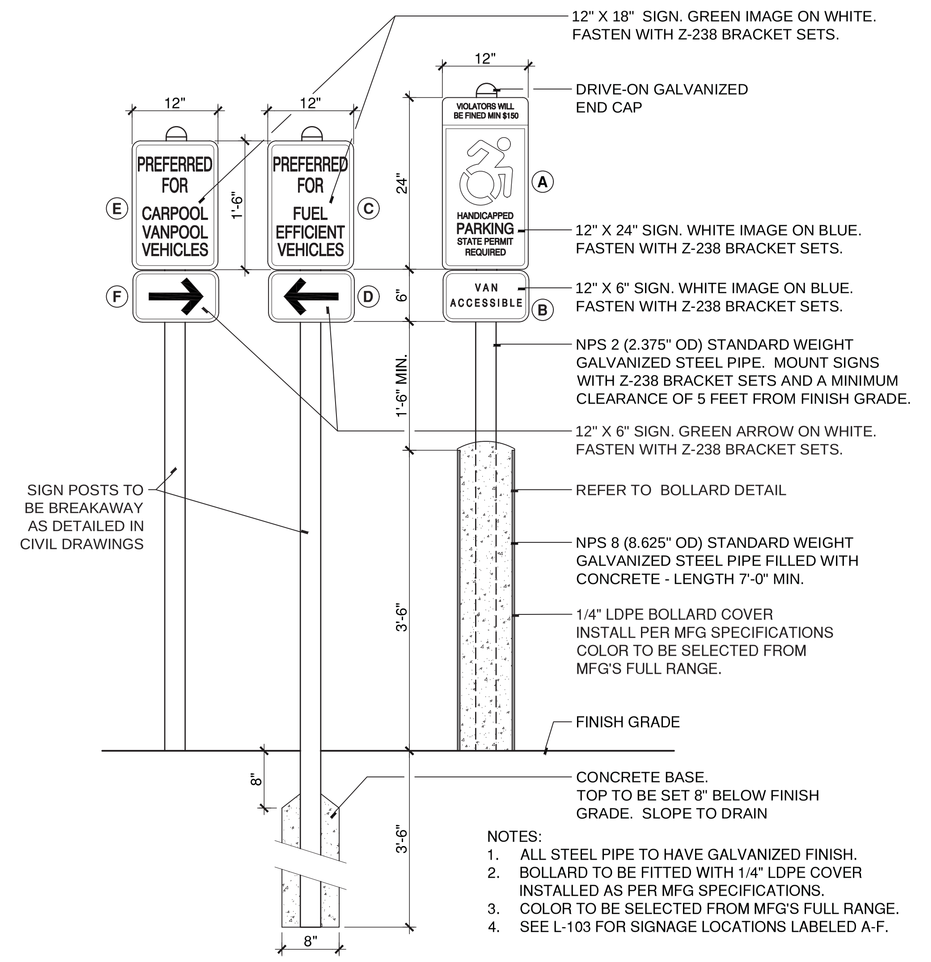

NOTES:
1. ALL STEEL PIPE TO HAVE GALVANIZED FINISH.
2. BOLLARD TO BE FITTED WITH 1/4" LDPE COVER INSTALLED AS PER MFG SPECIFICATIONS.
3. COLOR TO BE SELECTED FROM MFG'S FULL RANGE.
4. SEE L-103 FOR SIGNAGE LOCATIONS LABELED A-F.

ACCESSIBLE AND PREFERRED PARKING SIGNAGE

N.T.S.

X:\CADSTANDARD\DETAILS\101453-A.DWG

NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT · DANIEL A. CEGAN · REGISTERED LANDSCAPE ARCHITECT

SEAL

PERKINS EASTMAN
677 Washington Blvd, Suite 101
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F. +1 203 251 7474

Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Cheshire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
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Hamden, CT 06518 203.239.4200

Technology and Security
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Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

SITE DETAILS

L-502

PLANNING AND ZONING SUBMISSION

JULY 26, 2019

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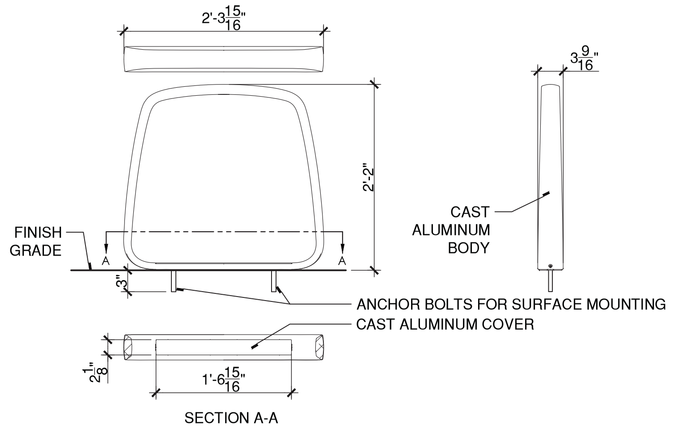

BICYCLE RACK

SCALE: N.T.S.

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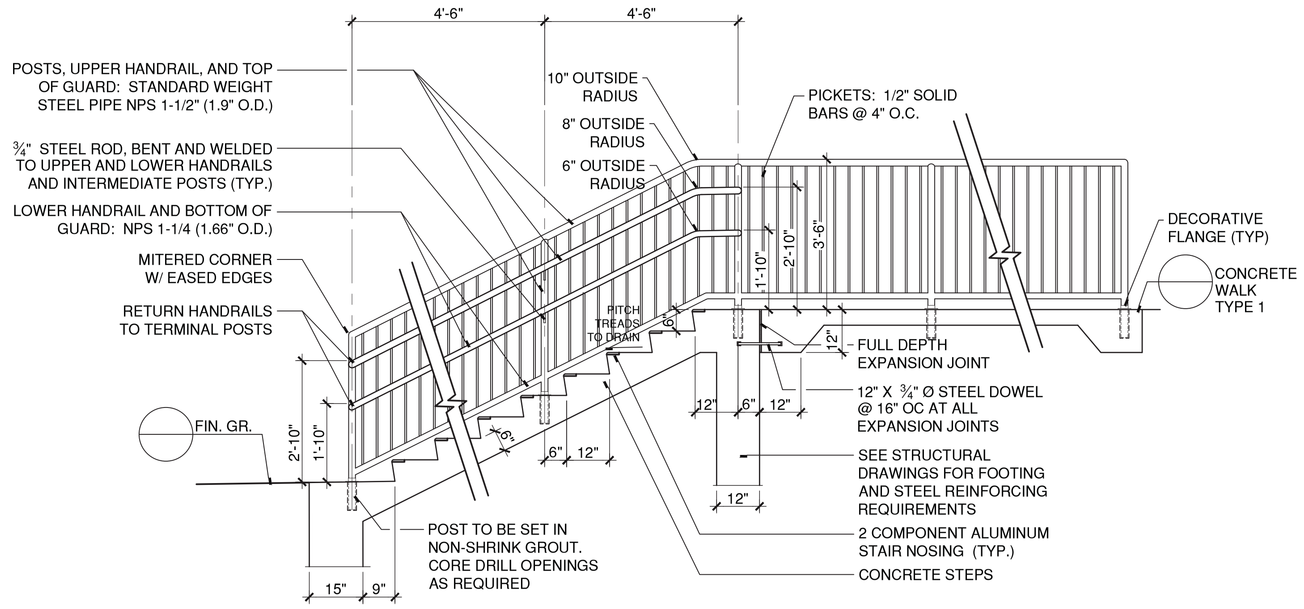
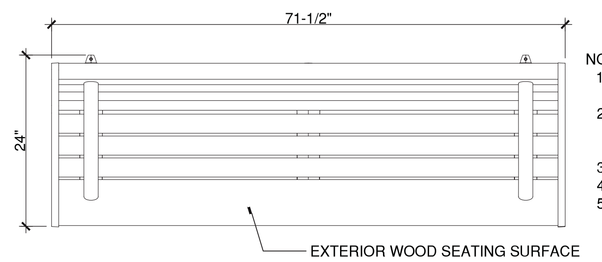


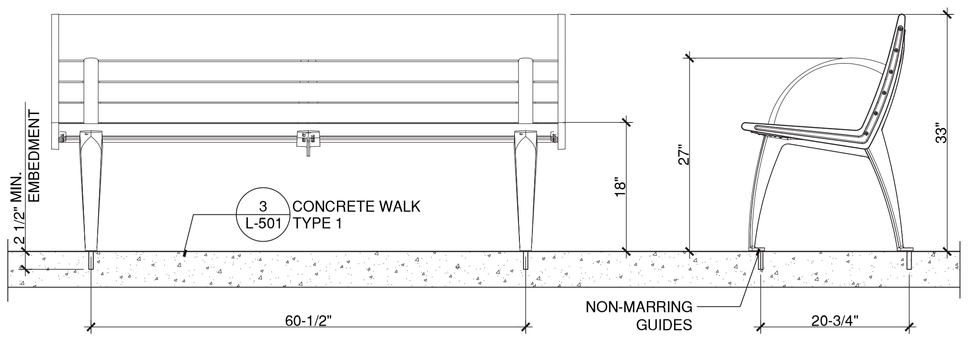
CONCRETE STAIR WITH HANDRAIL AND GUARD

SCALE: 1/2"=1'

Z:\2015025\DETAILS\CONC STAIR-B.DWG



NOTE:
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. BENCH: AUSTIN, AS MANUFACTURED BY LANDSCAPE FORMS, 431 LAWNDALE AVENUE, KALAMAZOO, MI 49048, 1-800-521-2546, OR APPROVED EQUAL.
3. STYLE: BACKED, 24"X 33"X 72" FOR EXTERIOR USE.
4. MOUNTING: SURFACE MOUNT.
5. FINISH: SEAT AND BACK PANELS-EXTERIOR QUALITY IPE WITH PANGARD II POLYESTER POWDERCOAT. COLOR TO BE SELECTED BY ARCHITECT.



BENCH

SCALE: 1"=1'

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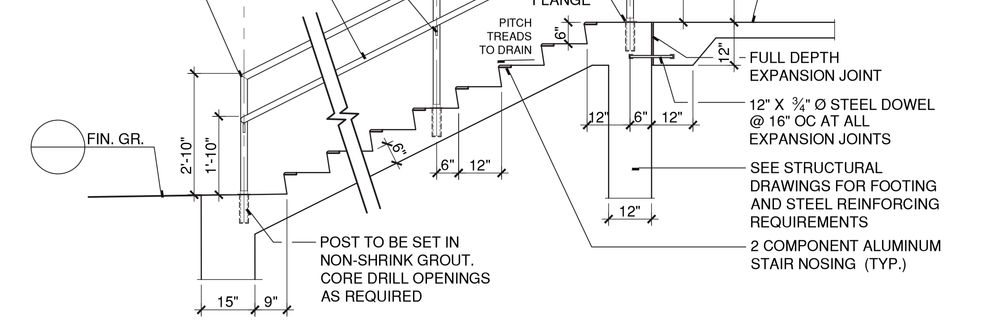

CONCRETE STAIR WITH HANDRAIL

SCALE: 1/2"=1'

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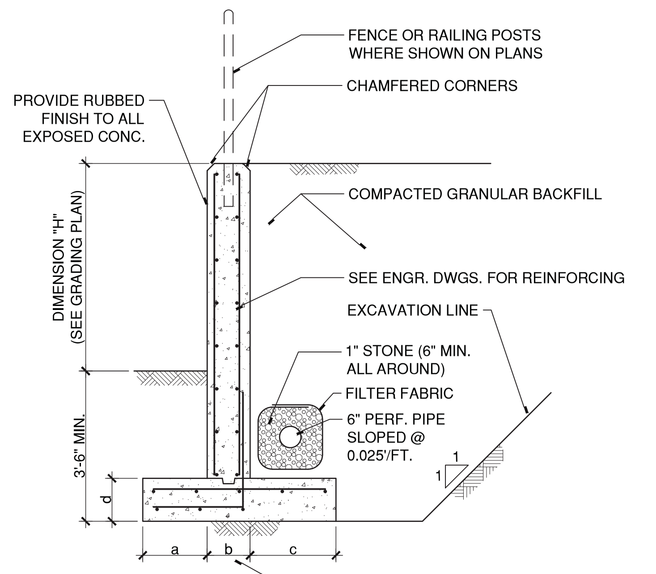

CONCRETE RETAINING WALL

SCALE: NTS

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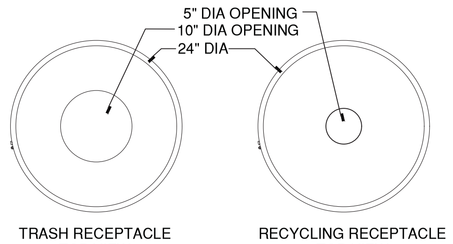
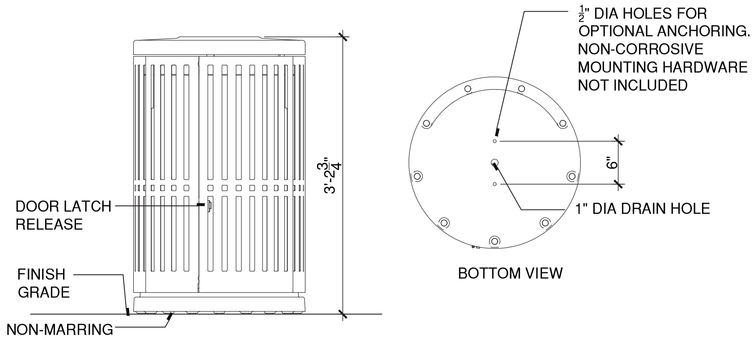


NOTE:
1. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. TRASH RECEPTACLE: CHASE PARK LITTER RECEPTACLE BY LANDSCAPEFORMS, 431 LAWNDALE AVENUE, KALAMAZOO, MI 49048, 1-800-521-2546, OR APPROVED EQUAL.
   A. STYLE: 24" DIA. TOP OPENING, 39"H, 40 GALLON.
   B. MOUNTING: FREE STANDING.
   C. MATERIAL: ALUMINUM
   D. FINISH: LANDSCAPEFORMS INC "PANGARD II".
3. RECYCLING RECEPTACLE: CHASE PARK RECYCLING RECEPTACLE BY LANDSCAPEFORMS, 431 LAWNDALE AVENUE, KALAMAZOO, MI 49048, 1-800-521-2546, OR APPROVED EQUAL.
   A. STYLE: 39"H, 40 GALLON, 5" OPENING.
   B. MOUNTING: SURFACE MOUNTED.
   C. MATERIAL: ALUMINUM
   D. FINISH: LANDSCAPEFORMS INC "PANGARD II".
4. ALL TRASH AND RECYCLING RECEPTACLES TO BE SURFACE MOUNTED WITH 3/8" DIA X 4" SS ANCHOR BOLTS IN ORDER THAT THEY MAY BE REMOVED PRIOR TO FLOODING AS REQUIRED.



TRASH/RECYCLING RECEPTACLES

SCALE: 1"=1'

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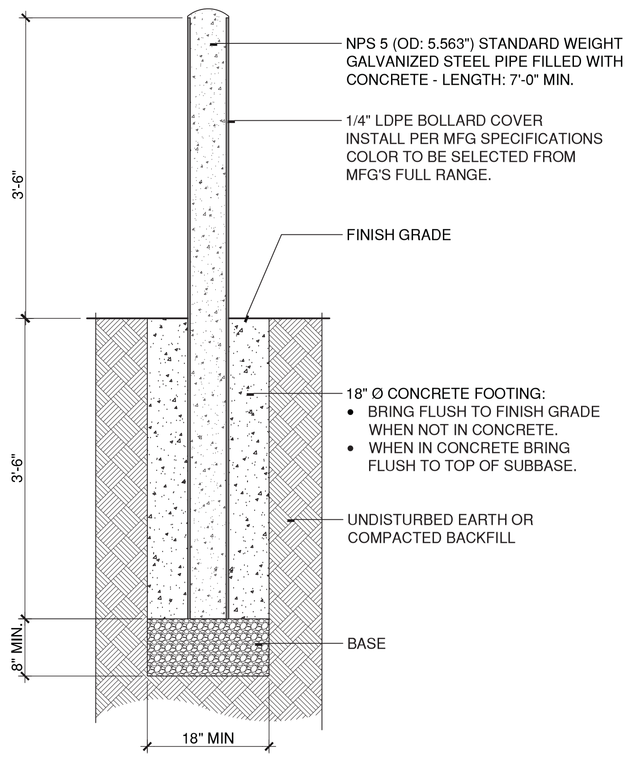

STEEL PIPE BOLLARD

SCALE: 1"=1'

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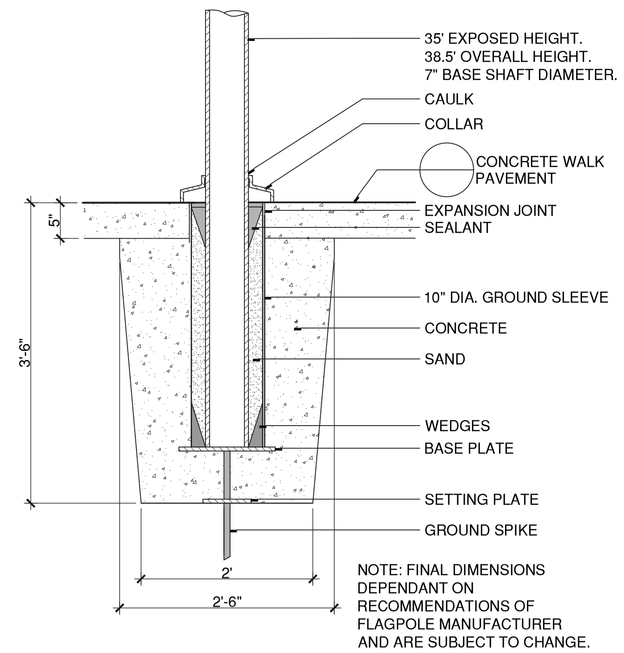

FLAGPOLE FOOTING

SCALE: 1"=1'

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NO. DATE ISSUE

LANDSCAPE ARCHITECT
Richter&Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

STATE OF CONNECTICUT · CHERYL A. CEGAN · REGISTERED LANDSCAPE ARCHITECT · NO. 445

SEAL

PERKINS EASTMAN
677 Washington Blvd, Suite 101
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Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Cheshire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
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Stamford, CT 06902 203.539.6164

Food Service:
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137 Elm Place
New Canaan, CT 06840 203.972.1605

Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

SITE DETAILS

L-503

PLANNING AND ZONING SUBMISSION

JULY 26, 2019

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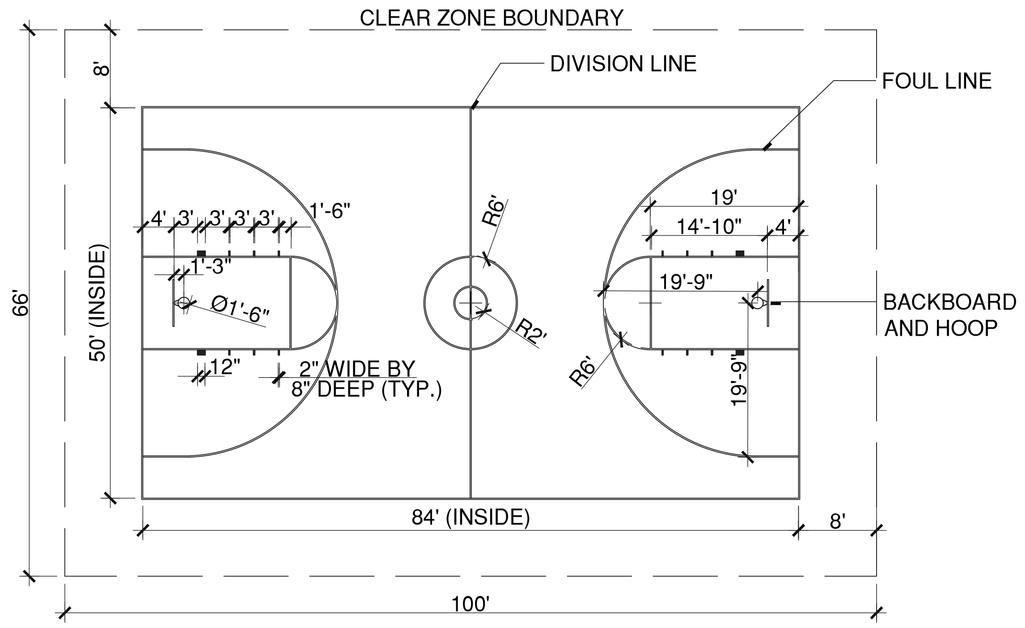
NOTE:
ALL LINES SHALL BE 2" WIDE
(NEUTRAL ZONE EXCLUDED).



BASKETBALL COURT LAYOUT

SCALE: 1/16"=1'

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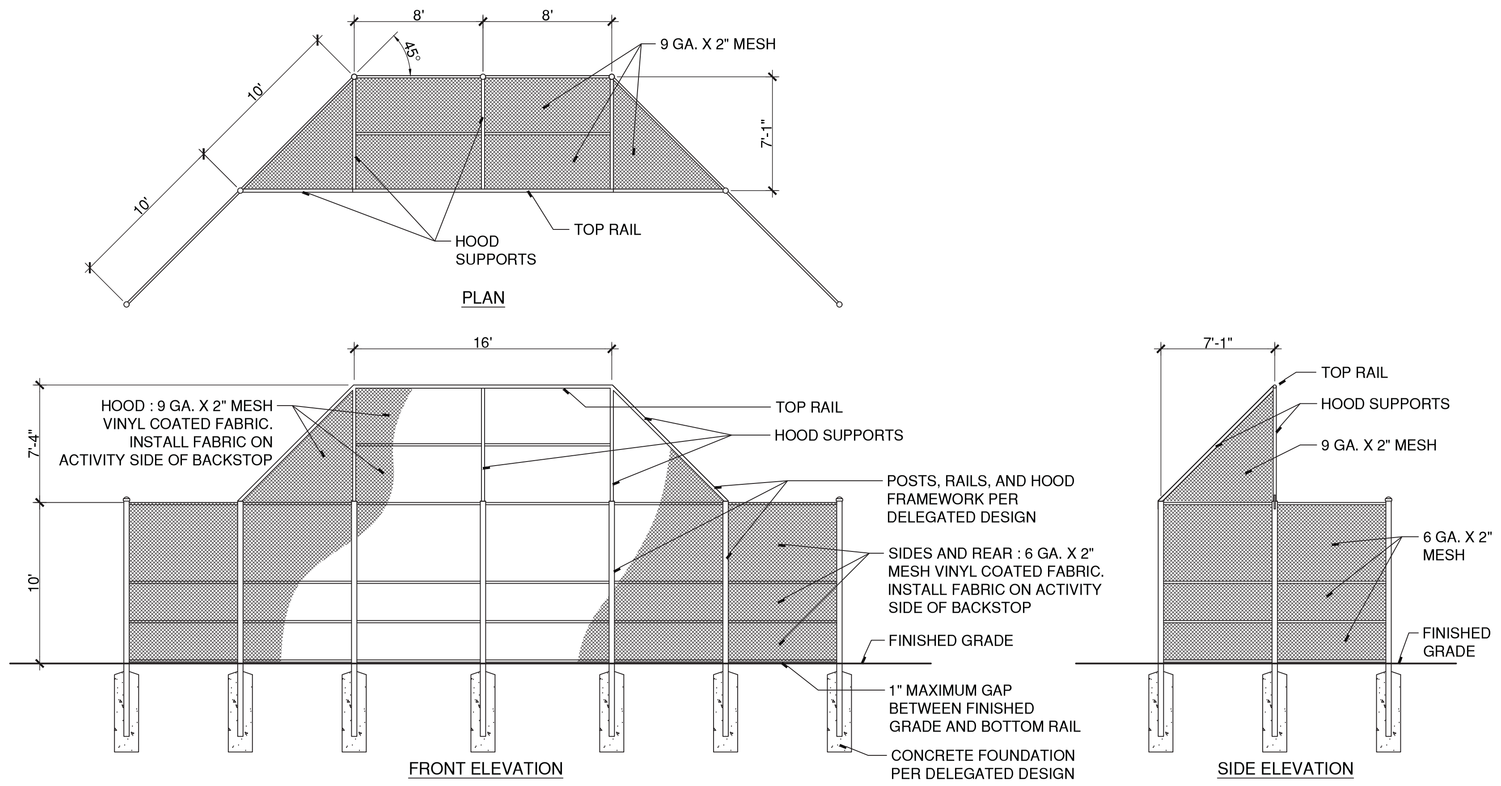

SOFTBALL BACKSTOP

SCALE: 3/16"=1'

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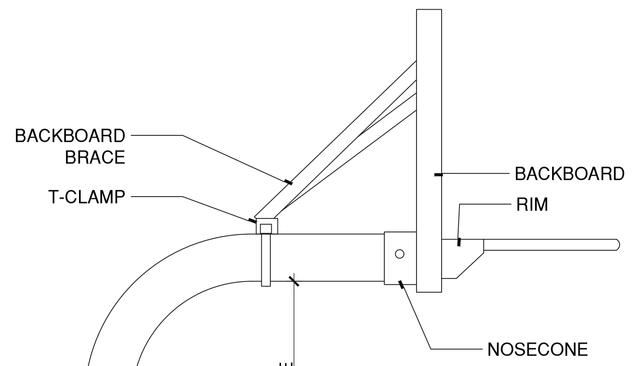

NOTE:
FINAL DIMENSIONS DEPENDENT ON RECOMMENDATIONS
OF BASKETBALL POST MANUFACTURER.

BASKETBALL GOAL

SCALE: 1"=1'

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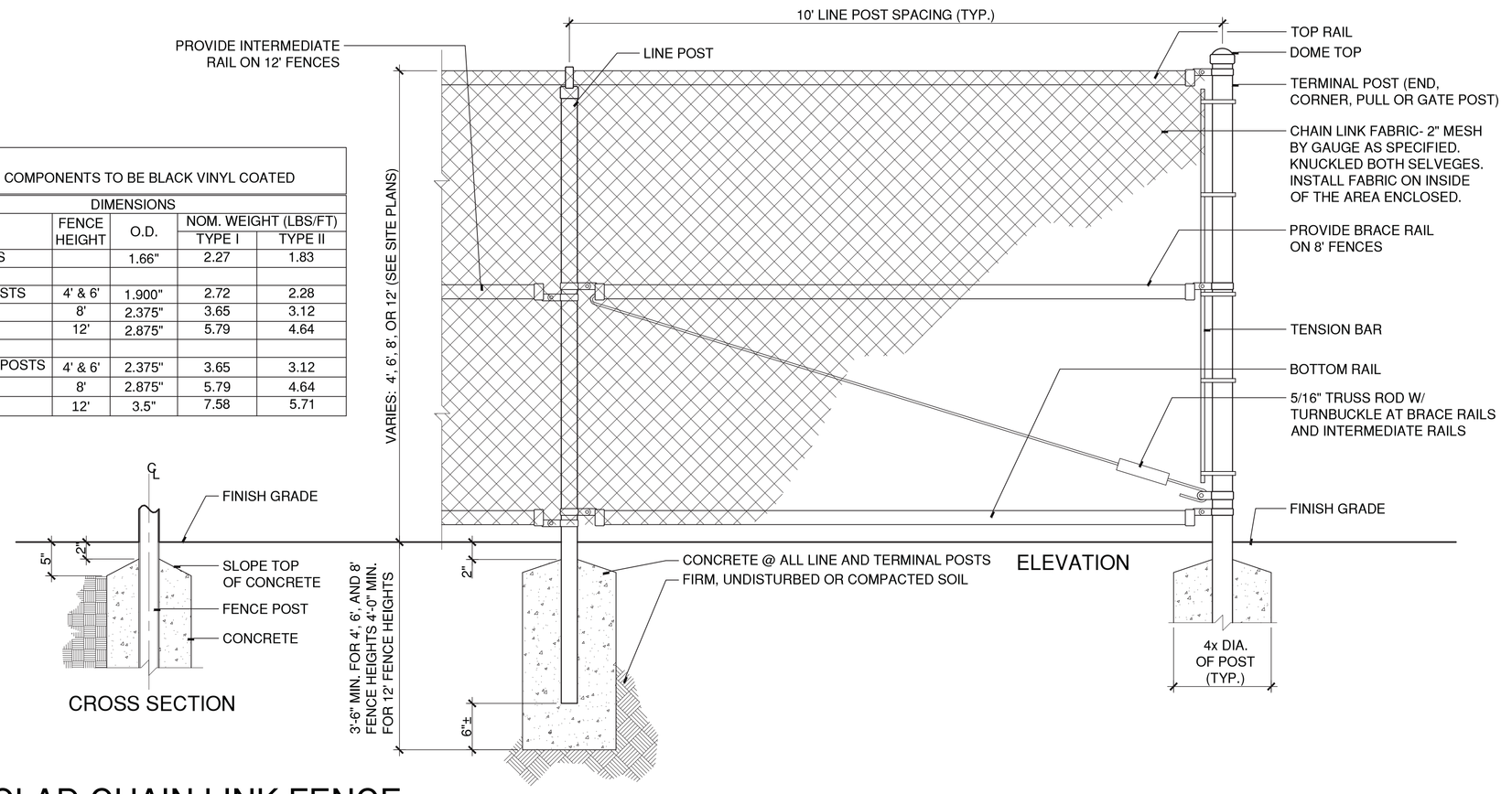
NOTE:
ALL FENCE COMPONENTS TO BE BLACK VINYL COATED

	DIMENSIONS			
	FENCE HEIGHT	O.D.	NOM. WEIGHT (LBS/FT) TYPE I	TYPE II
RAILS		1.66"	2.27	1.83
LINE POSTS	4' & 6'	1.900"	2.72	2.28
	8'	2.375"	3.65	3.12
	12'	2.875"	5.79	4.64
TERMINAL POSTS	4' & 6'	2.375"	3.65	3.12
	8'	2.875"	5.79	4.64
	12'	3.5"	7.58	5.71



VINYL CLAD CHAIN LINK FENCE

N.T.S.

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NO.	DATE	ISSUE

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
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SEAL

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Sustainability Consultant:
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New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

SITE DETAILS

L-504

PLANNING AND ZONING SUBMISSION

JULY 26, 2019

PLANT SCHEDULE

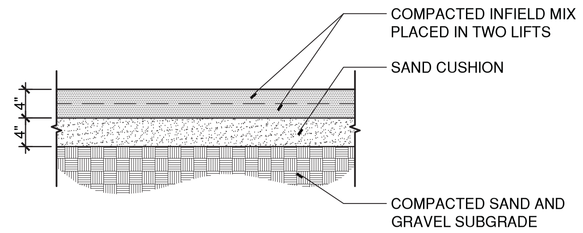
CATEGORY	SYM	BOTANICAL NAME	COMMON NAME	QTY	SIZE	COMMENTS
TREE (DECIDUOUS)	AR	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	6	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	AS	ACER SACHARINUM 'LEGACY'	LEGACY SUGAR MAPLE	2	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	BN	BETULA NIGRA 'DURA HEAT'	RIVER BIRCH	3	14-16' HT. MULTI-STEM	B&B, MIN. 3 TRUNKS, FULL SPECIMEN
	PA	PLATANUS ACERIFOLIA 'BLOODGOOD'	LONDON PLANETREE	3	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	PS	PRUNUS SARGENTII 'PINK FLAIR'	JAPANESE FLOWERING CHERRY	4	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	QP	QUERCUS PALUSTRIS	PIN OAK	6	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	TC	TILIA CORDATA 'GREENSPIRE'	LITTLE LEAF LINDEN	4	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	UP	ULMUS PAVIFOLIA 'ALLEE'	ALLEE CHINESE ELM	12	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
	ZS	ZELKOVA SERRATA 'GREEN VASE'	GREEN VASE JAPANESE ZELKOVA	5	3-3 1/2" CAL.	B&B, UNIFORM, HIGH BRANCHED TO 6'
TREE (EVERGREEN)	TGG	THUJA 'GREEN GIANT'	GREEN GIANT ARBORVITAE	28	7-8' HT.	B&B
SHRUBS			BROADLEAF EVERGREEN SHRUBS	211	24-30" SPREAD / HEIGHT	B&B OR CONTAINER
			DECIDUOUS SHRUBS	211	24-30" SPREAD / HEIGHT	B&B OR CONTAINER

WETMIX SEED MIX

BOTANICAL NAME	COMMON NAME
CAREX VULPINOIDEA	FOX SEDGE
CAREX SCOPARIA	BLUNT BROOM SEDGE
CAREX LURIDA	LURID SEDGE
CAREX LUPULINA	HOP SEDGE
POA PALUSTRIS	FOWL BLUEGRASS
BIDENS FRONDOSA	BEGGER TICKS
SCRIPUS ATROVIRENS	GREEN BULRUSH
ASCLEPIAS INCARNATA	SWAMP MILKWEED
CAREX CRINITA	FRINGED SEDGE
VERONICA NOVEBORACENSIS	NEW YORK IRONWEED
JUNCUS EFFUSUS	SOFT RUSH
ASTER LATERIFLORUS	CALICO ASTER
IRIS VERSICOLOR	BLUE FLAG
GLYCERIA GRANDIS	AMERICAN MANNAGRASS
MIMULUS RINGENS	SQUARE STEMMED MONKEY FLOWER
EUPATORIUM MACULATUM	SPOTTED JOE PYE WEED

NATIVE FESCUE SEED MIX

BOTANICAL NAME	COMMON NAME
FESTUCA BREVIPILA	HARD FESCUES
FESTUCA OVINA	SHEEP FESCUE
FESTUCA RUBRA SUBS. FALLAX	CHEWINGS FESCUE
FESTUCA RUBRA	RED FESCUE
FESTUCA RUBRA VAR. RUBRA	CREEPING RED FESCUE



SKINNED INFIELD
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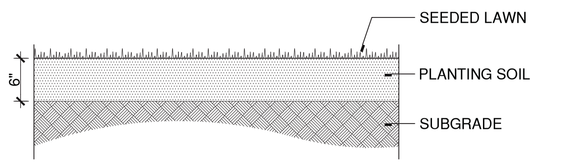
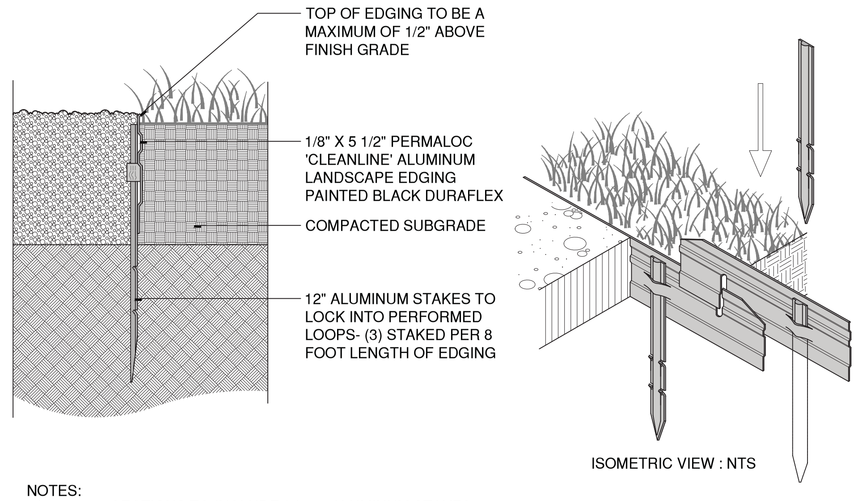
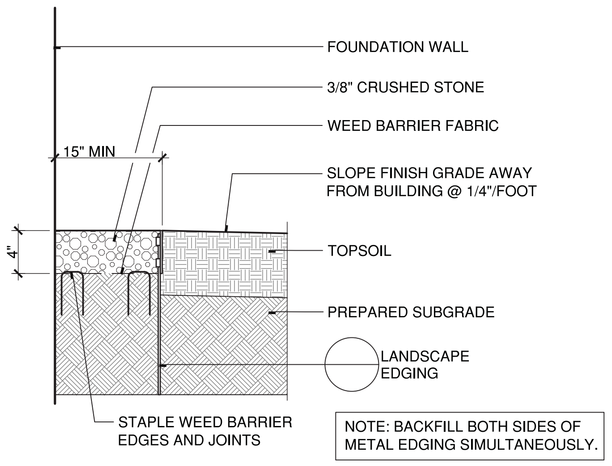


SEEDED LAWN
SCALE: 1"=1' X:\CADSTANDARD\DETAILS\329200-C.DWG

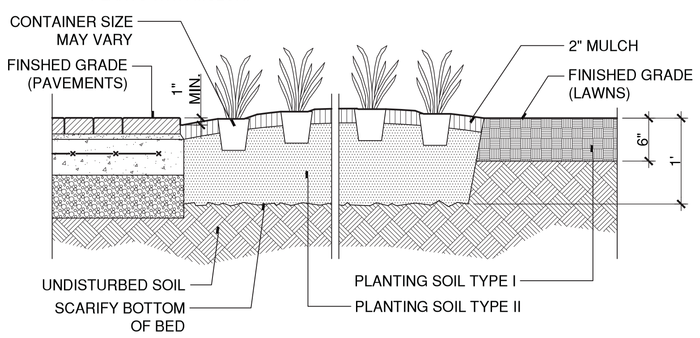


NOTES:
1.) 16'-0" SECTIONS TO INCLUDE (6) 12" ALUMINUM STAKES.
2.) COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING.
3.) CORNERS - CUT BASE OF MATERIAL TO FORM A CONTINUOUS CORNER.
4.) PERMALOC 'CLEANLINE' ALUMINIM LANDSCAPE EDGING AS MANUFACTURED BY PERMALOC CORPORATION, HOLLAND, MI., 1-800-356-9660.

LANDSCAPE EDGING
SCALE: 3"=1' X:\CADSTANDARD\DETAILS\055000-A.DWG

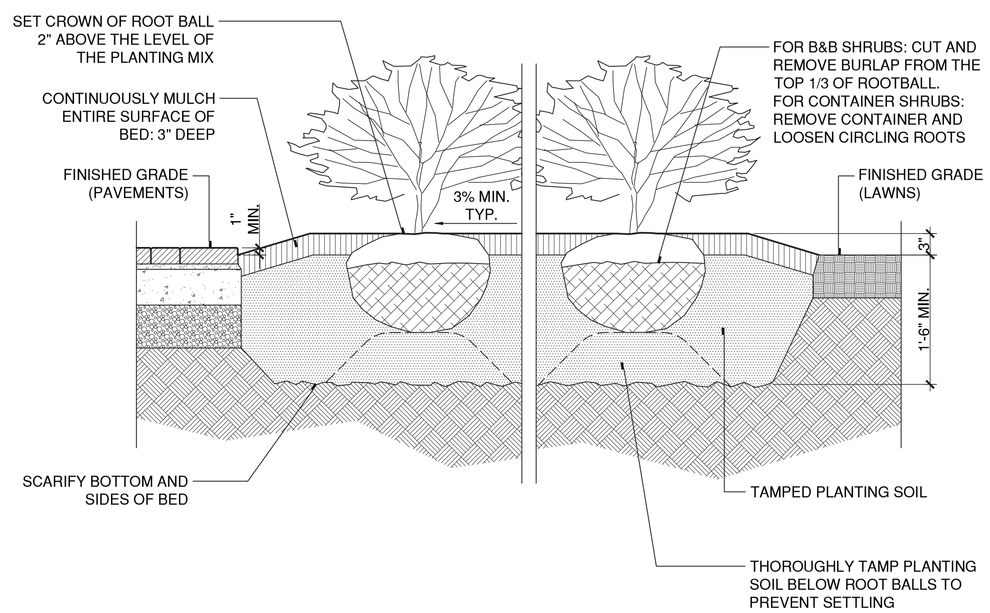


MOW STRIP
SCALE: 1 1/2"=1' X:\CADSTANDARD\DETAILS\321500-C.DWG

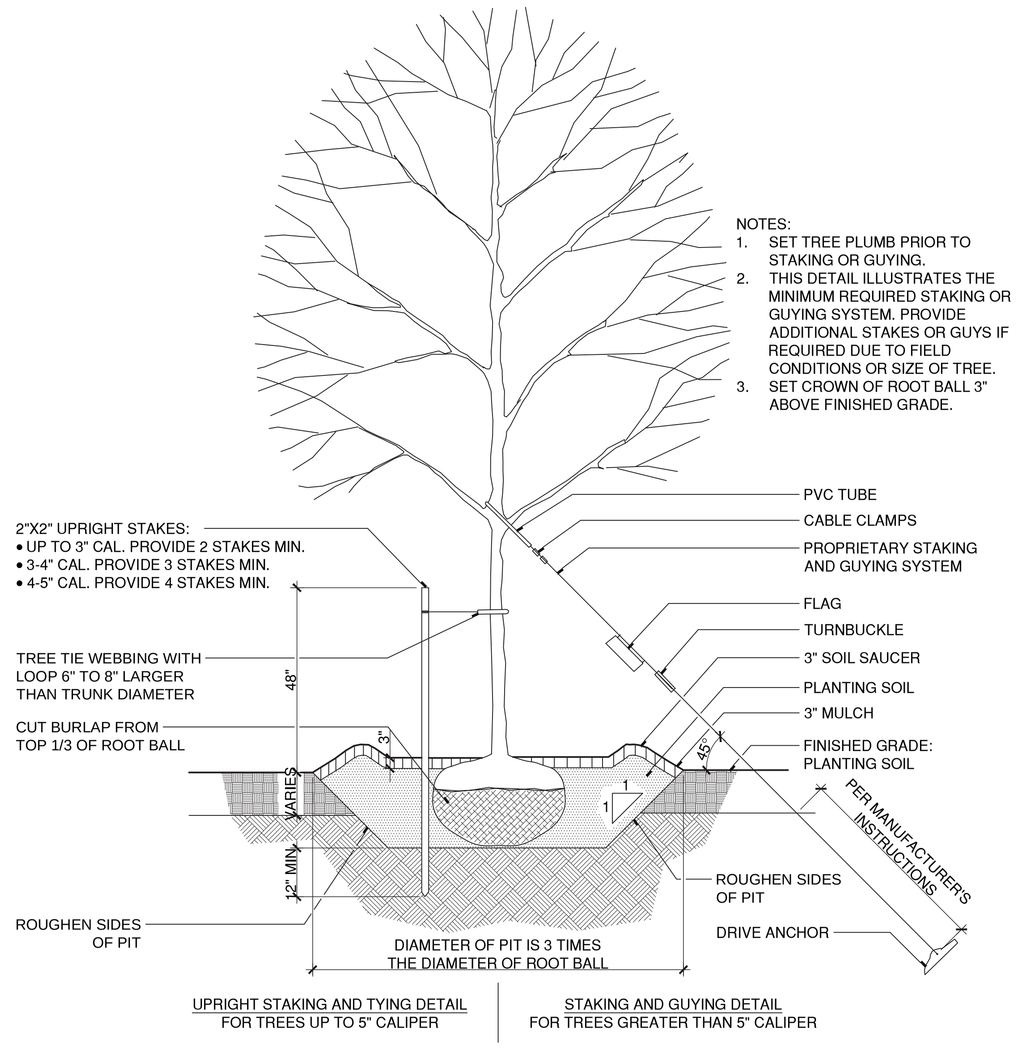


NOTES:
1. SET CROWN OF ROOT BALL LEVEL WITH FINISH GRADE.
2. MAINTAIN MINIMUM OF 4" PLANTING SOIL BELOW EACH INDIVIDUAL PLANT.
3. MULCH ENTIRE AREA OF GROUNDCOVER, PERENNIALS OR ANNUALS.
4. MULCH CAREFULLY AROUND EACH PLANT. DO NOT COVER CROWNS OF PLANTS WITH MULCH.

GROUNDCOVERS / PERENNIALS CONTINUOUS PLANTING BED
SCALE: 1"=1' X:\CADSTANDARD\DETAILS\329300-C.DWG



CONTINUOUS PLANTING BED FOR SHRUBS
SCALE: 1"=1' X:\CADSTANDARD\DETAILS\329300-B.DWG



NOTES:
1. SET TREE PLUMB PRIOR TO STAKING OR GUYING.
2. THIS DETAIL ILLUSTRATES THE MINIMUM REQUIRED STAKING OR GUYING SYSTEM. PROVIDE ADDITIONAL STAKES OR GUYS IF REQUIRED DUE TO FIELD CONDITIONS OR SIZE OF TREE.
3. SET CROWN OF ROOT BALL 3" ABOVE FINISHED GRADE.

UPRIGHT STAKING AND TYING DETAIL FOR TREES UP TO 5" CALIPER | STAKING AND GUYING DETAIL FOR TREES GREATER THAN 5" CALIPER

TREE PLANTING WITH TRUNK STABILIZATION
SCALE: 1/2"=1' X:\CADSTANDARD\DETAILS\329300-A.DWG

NO.	DATE	ISSUE
1	7/22/2019	WETLANDS RESUBMISSION

LANDSCAPE ARCHITECT
Richter & Cegan Inc.
8B CANAL COURT P.O. BOX 567
AVON, CT 06001 PHONE: 860-678-0669

SEAL

PERKINS EASTMAN
677 Washington Blvd, Suite 101
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F. +1 203 251 7474

Owner:
Town of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
50 Griffen Road South
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

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D'Agostino & Associates
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Food Service:
Foodservice Facilities International
137 Elm Place
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Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandegee Ave
Groton, CT 06340

PROJECT No:74451

DRAWING TITLE:

SITE DETAILS

L-505

PLANNING AND ZONING SUBMISSION

JULY 26, 2019

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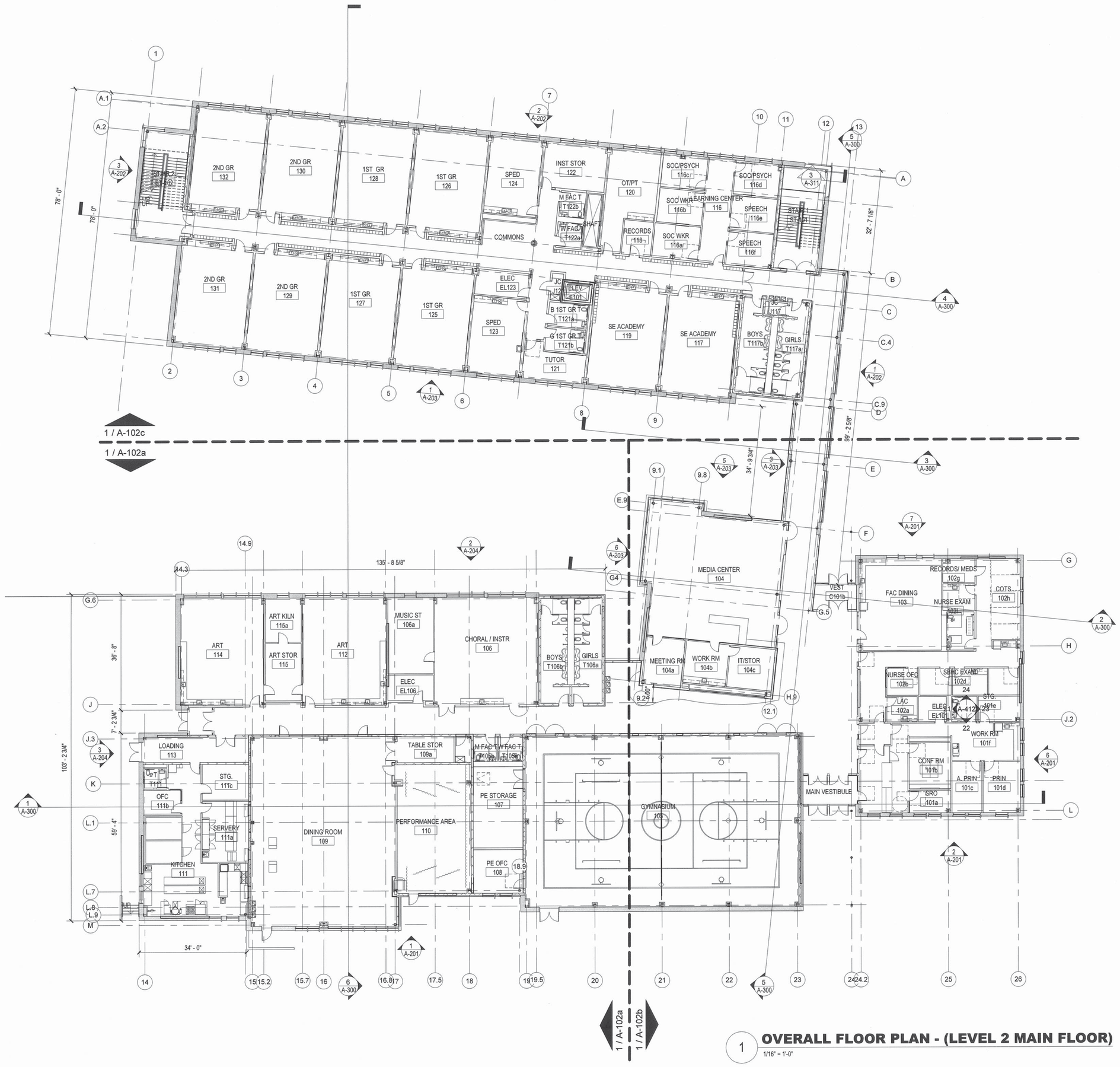
GENERAL NOTES - CONSTRUCTION PLANS

1. PERIMETER WALLS AT STAIRS, GYMNASIUM AND GROUP TOILETS SHALL BE OF MASONRY CONSTRUCTION.

2. ALL OTHER WALLS SHALL BE OF METAL STUD CONSTRUCTION, UNO.

3. INTERIOR PARTITIONS SHALL MEET ANSI S12.60 ACOUSTICAL REQUIREMENTS FOR PRIMARY LEARNING SPACES.



1 **OVERALL FLOOR PLAN - (LEVEL 2 MAIN FLOOR)**
1/16" = 1'-0"

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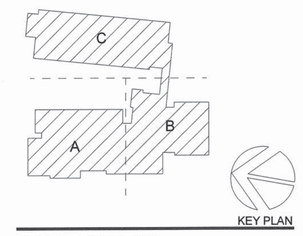
NO.	DATE	ISSUE

STATE OF CONNECTICUT · JOSEPH G. CECERE · NO. 4357 · REGISTERED ARCHITECT

SEAL



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Torrington, CT 06790 860.489.9261

Owner's Representative:
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Hartford, CT 06106 860.906.1577

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Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

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2321 Whitney Avenue, Suite 301
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Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

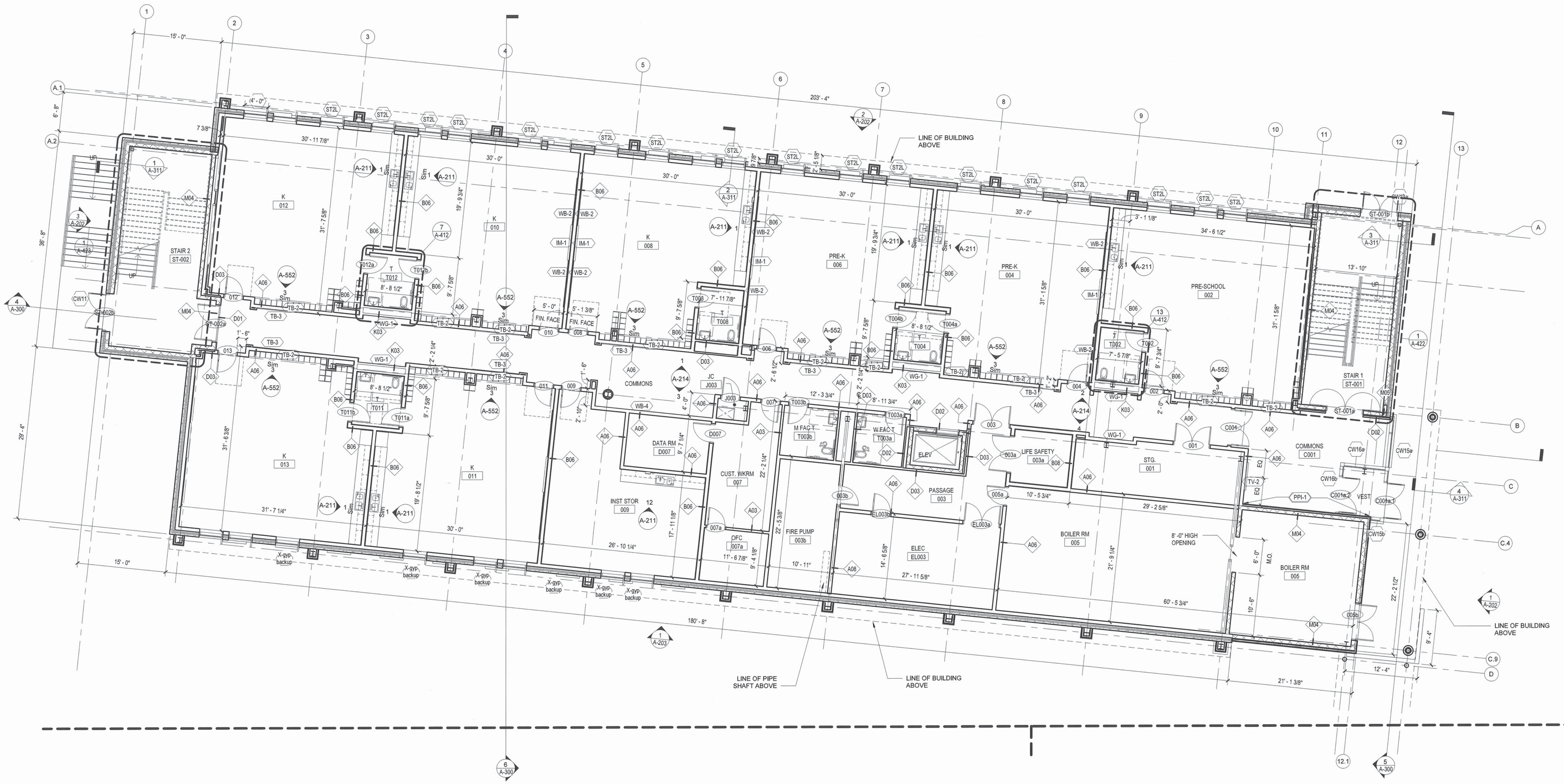
OVERALL FLOOR PLAN

SCALE: As indicated

A-100

SITE PLAN SUBMISSION

AUGUST 15, 2019



1 **LEVEL 1 FLOOR PLAN**
1/8" = 1'-0"

NOTE: ALL DIMENSIONS TO **FACE OF STUD** U.O.N.

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NO.	DATE	ISSUE

STATE OF CONNECTICUT
JOSEPH G. COSTA
No. 15591
REGISTERED ARCHITECT

SEAL

KEY PLAN

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Town Hall Annex 134 Groton Long Point Road
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Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
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Bloomfield, CT 06002 860.286.9171

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Acentech
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Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

LEVEL 1 FLOOR PLAN

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

A-101

SITE PLAN SUBMISSION

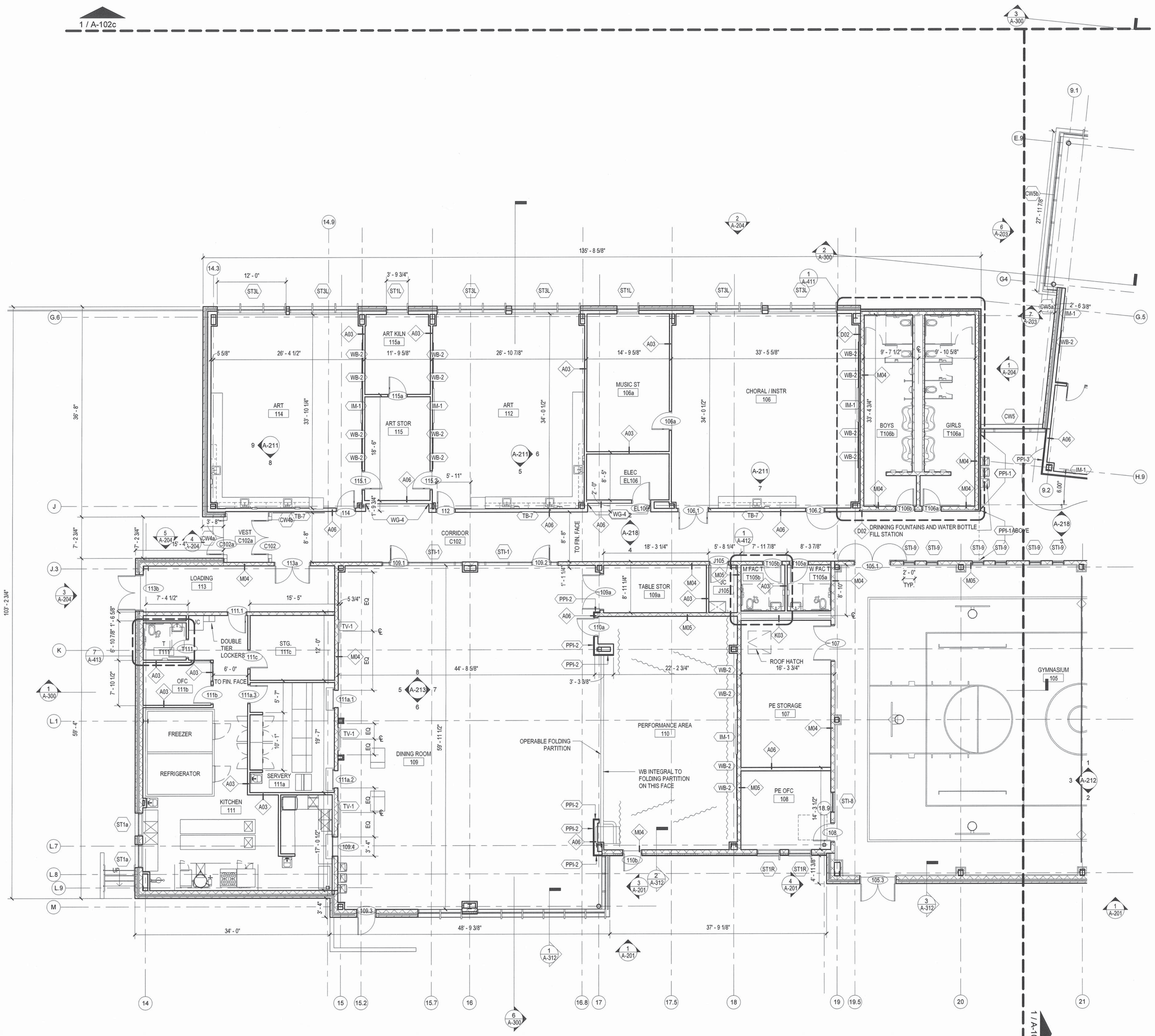
AUGUST 15, 2019

GENERAL NOTES - CONSTRUCTION PLANS

1. PERIMETER WALLS AT STAIRS, GYMNASIUM AND GROUP TOILETS SHALL BE OF MASONRY CONSTRUCTION.

2. ALL OTHER WALLS SHALL BE OF METAL STUD CONSTRUCTION, UNO.

3. INTERIOR PARTITIONS SHALL MEET ANSI S12.60 ACOUSTICAL REQUIREMENTS FOR PRIMARY LEARNING SPACES.



1 **LEVEL 2 PARTIAL FLOOR PLAN - PART A (MAIN FLOOR)**
1/8" = 1'-0"

NOTE: ALL DIMENSIONS TO **FACE OF STUD** U.O.N.

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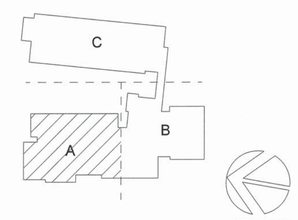
NO.	DATE	ISSUE

STATE OF CONNECTICUT · JOSEPH G. COSENTINO · No. 4357 · REGISTERED ARCHITECT

SEAL



KEY PLAN

PERKINS — EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
City of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
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112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
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99 Realty Drive
Cheshire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

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Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
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Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

LEVEL 2 PARTIAL FLOOR PLAN

SCALE: As indicated

A-102a

SITE PLAN SUBMISSION

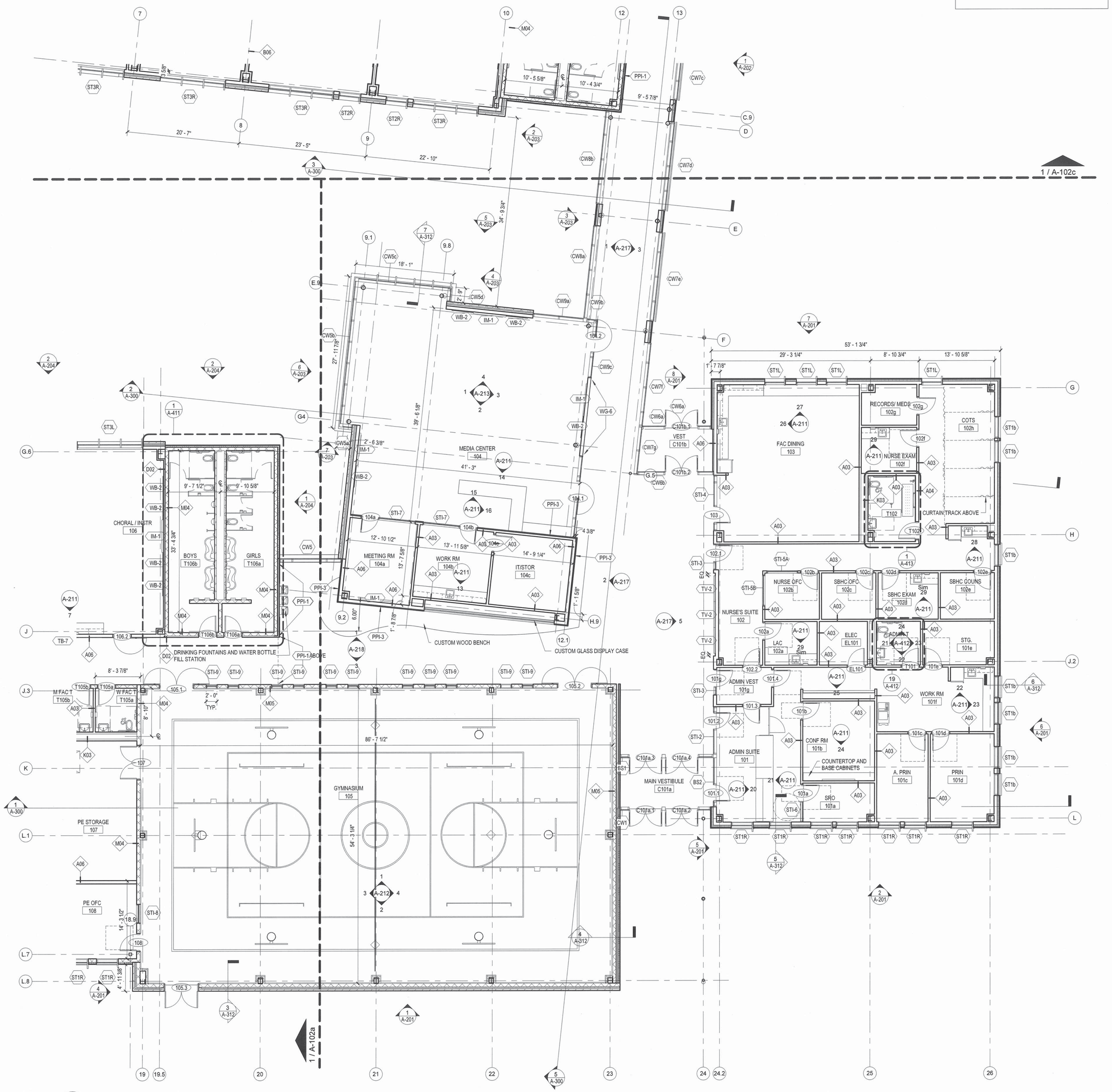
AUGUST 15, 2019

GENERAL NOTES - CONSTRUCTION PLANS

1. PERIMETER WALLS AT STAIRS, GYMNASIUM AND GROUP TOILETS SHALL BE OF MASONRY CONSTRUCTION.

2. ALL OTHER WALLS SHALL BE OF METAL STUD CONSTRUCTION, UNO.

3. INTERIOR PARTITIONS SHALL MEET ANSI S12.60 ACOUSTICAL REQUIREMENTS FOR PRIMARY LEARNING SPACES.



1 **LEVEL 2 PARTIAL FLOOR PLAN - PART B (MAIN FLOOR)**
1/8" = 1'-0"

NOTE: ALL DIMENSIONS TO **FACE OF STUD** U.O.N.

NO.	DATE	ISSUE

SEAL

KEY PLAN

PERKINS EASTMAN
677 Washington Blvd, Suite 101
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T. +1 203 251 7400
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Landscape:
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Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
206 West Newberry Road
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Mechanical, Electrical, Plumbing & Fire Protection:
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Acentech
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Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

LEVEL 2 PARTIAL FLOOR PLAN

SCALE: As indicated

A-102b

SITE PLAN SUBMISSION

AUGUST 15, 2019

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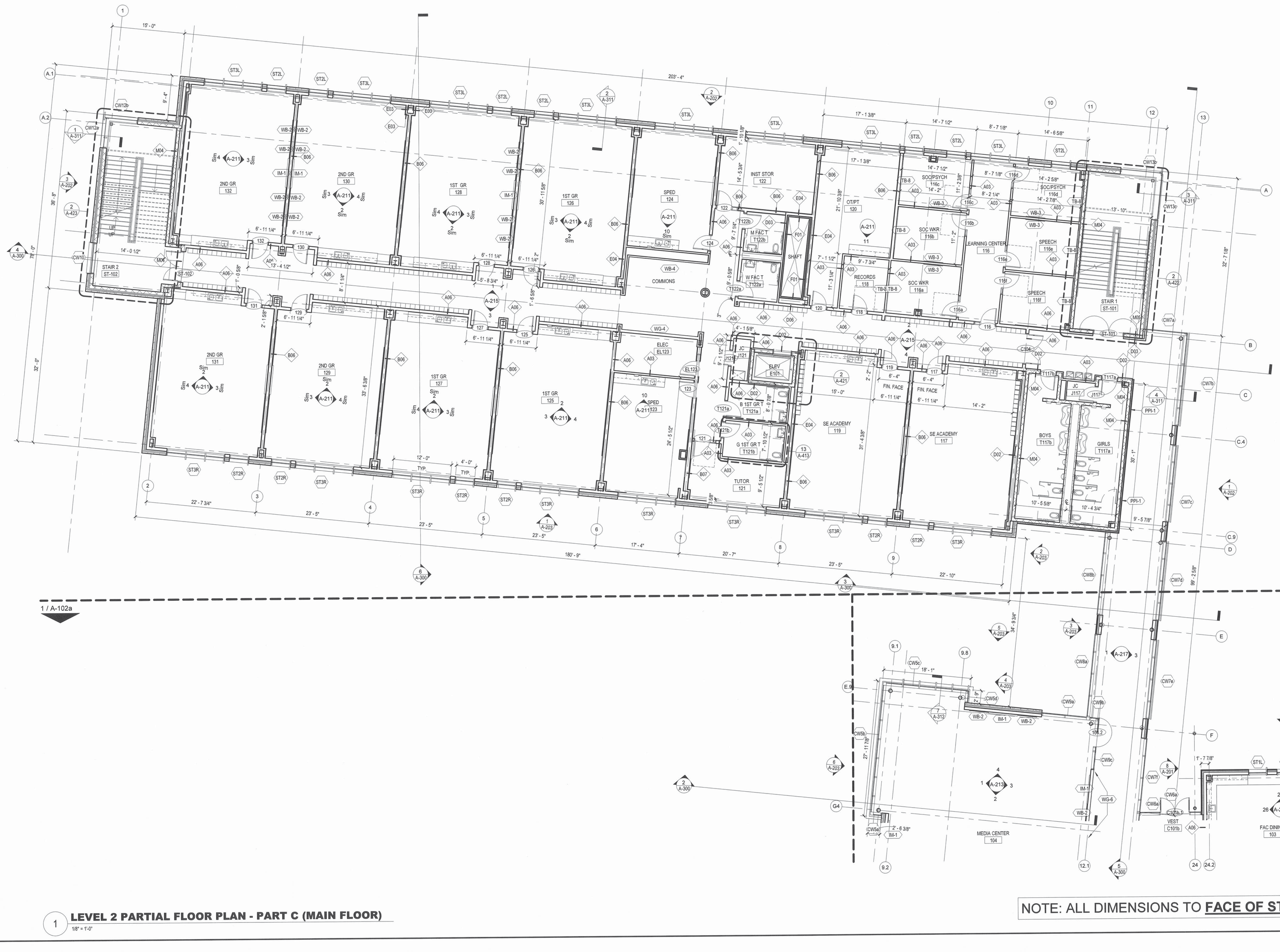
GENERAL NOTES - CONSTRUCTION PLANS

1. PERIMETER WALLS AT STAIRS, GYMNASIUM AND GROUP TOILETS SHALL BE OF MASONRY CONSTRUCTION.

2. ALL OTHER WALLS SHALL BE OF METAL STUD CONSTRUCTION, UNO.

3. INTERIOR PARTITIONS SHALL MEET ANSI S12.60 ACOUSTICAL REQUIREMENTS FOR PRIMARY LEARNING SPACES.

NO.	DATE	ISSUE

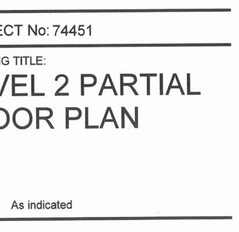


1 **LEVEL 2 PARTIAL FLOOR PLAN - PART C (MAIN FLOOR)**
1/8" = 1'-0"

NOTE: ALL DIMENSIONS TO **FACE OF STUD** U.O.N.

STATE OF CONNECTICUT
JOHN G. CARLSON
REGISTERED ARCHITECT

SEAL



KEY PLAN

PERKINS — EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
City of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
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99 Realty Drive
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Landscape:
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Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
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206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

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Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

LEVEL 2 PARTIAL FLOOR PLAN

SCALE: As indicated

A-102c

SITE PLAN SUBMISSION

AUGUST 15, 2019

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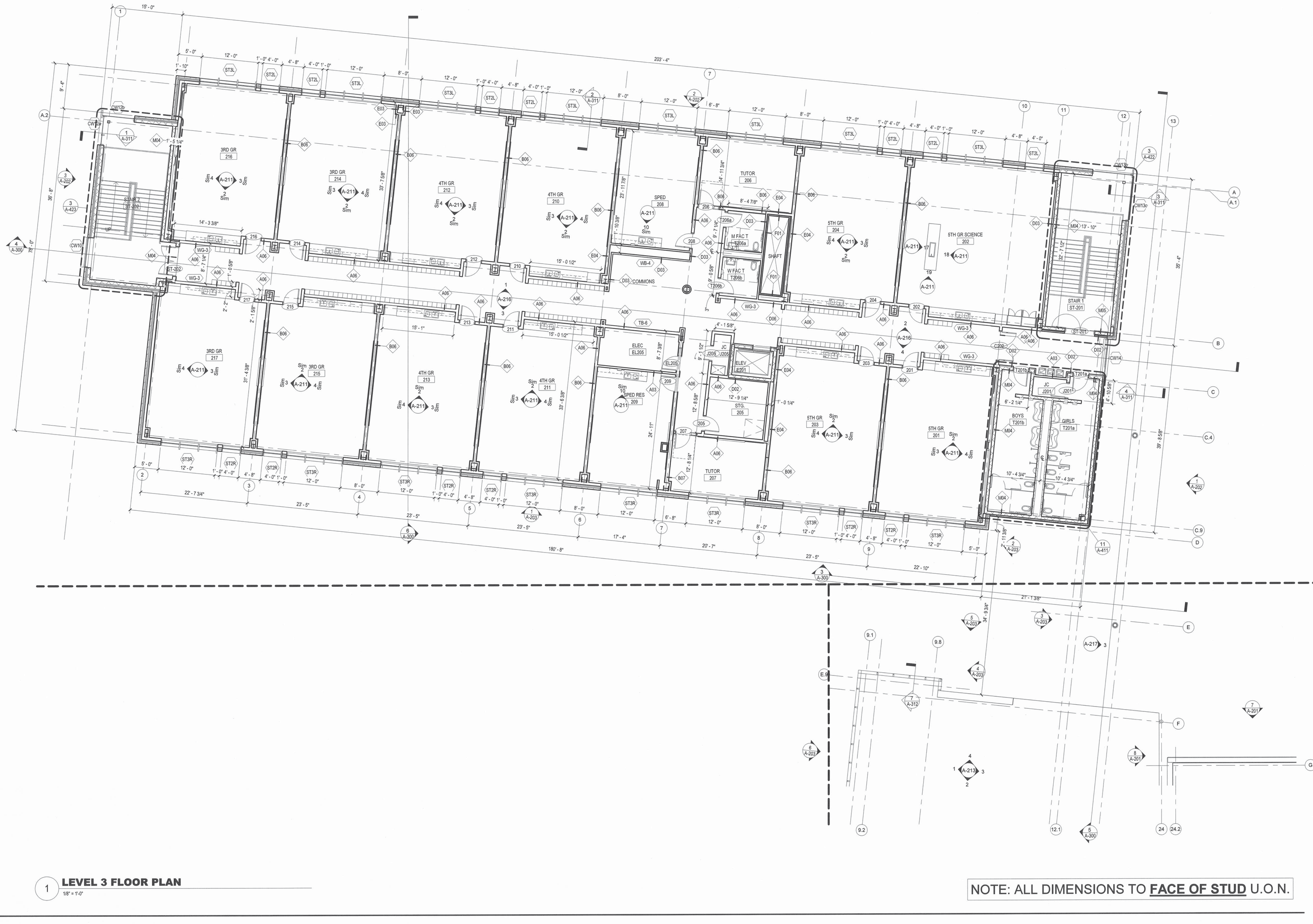

1 **LEVEL 3 FLOOR PLAN**
1/8" = 1'-0"

NOTE: ALL DIMENSIONS TO **FACE OF STUD** U.O.N.

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NO.	DATE	ISSUE

SEAL

KEY PLAN

PERKINS EASTMAN
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Torrington, CT 06790 860.489.9261

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Hamden, CT 06518 203.239.4200

Technology and Security
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Stamford, CT 06902 203.539.6164

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New Canaan, CT 06840 203.972.1605

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Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
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798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

LEVEL 3 FLOOR PLAN

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

A-103

SITE PLAN SUBMISSION

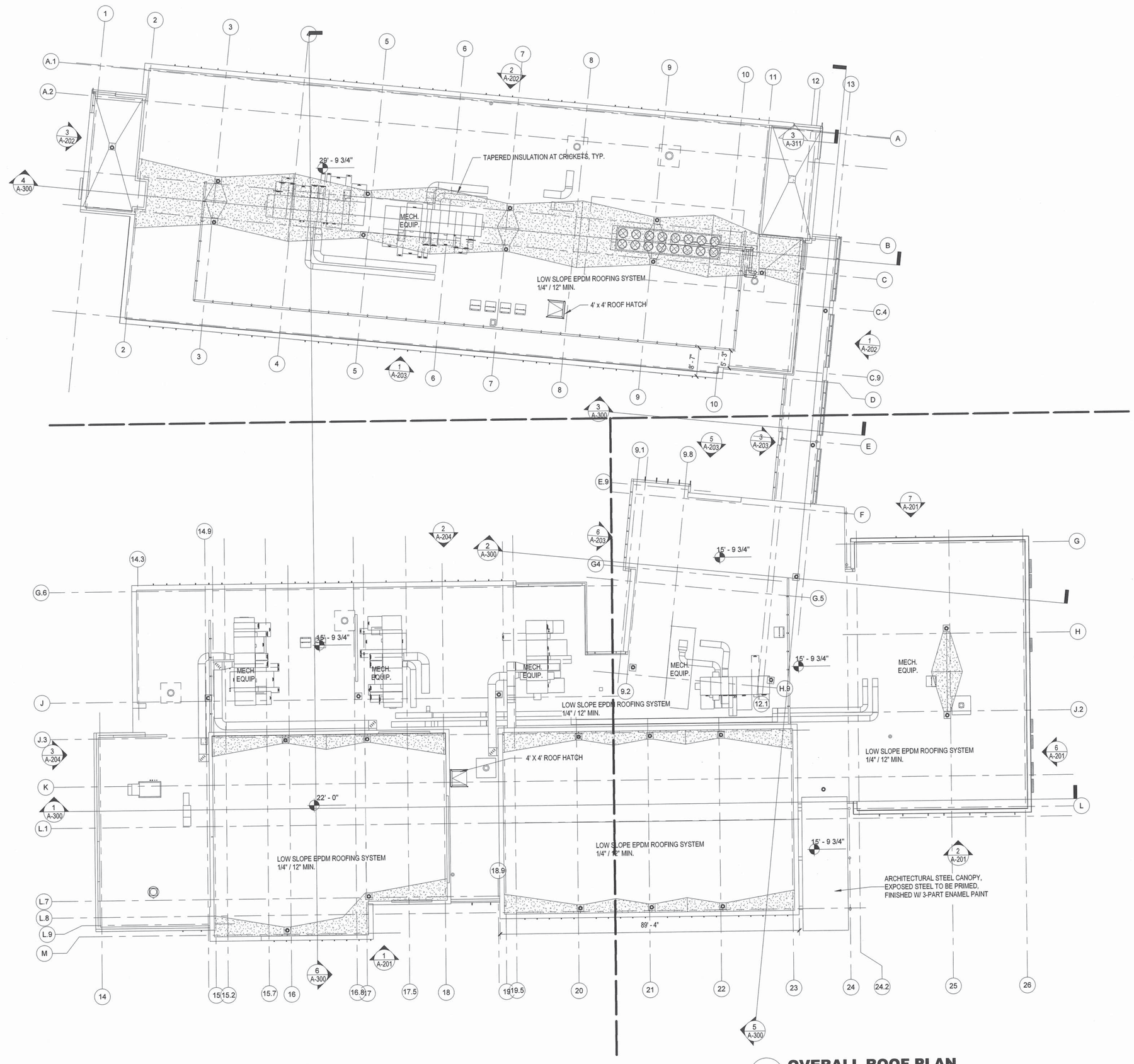
AUGUST 15, 2019

GENERAL NOTES - ROOF PLAN

PROJECT DIRECTORS NOTE:

THIS IS A TEMPLATE AND IS NOT TO BE USED AS A GUIDE AS TO WHICH CHAPTERS ARE RELEVANT TO THE INDIVIDUAL PROJECT.

EDIT THE TEXT OF EACH SECTION TO ENSURE THAT THE CORRECT CHAPTERS ARE REFERENCED AND NOTE THAT THE CHAPTERS LISTED ARE *NOT* FINAL AND ADDITIONS AND DELETIONS WILL BE NECESSARY FOR THE SPECIFIC PROJECT REQUIREMENTS.



1 **OVERALL ROOF PLAN**
1/16" = 1'-0"

NO.	DATE	ISSUE

STATE OF CONNECTICUT
JOSEPH G. COSENTINO
No. 23511
REGISTERED ARCHITECT

SEAL

KEY PLAN

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Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
D'Agostino & Associates
1266 E. Main Street
Stamford, CT 06902 203.539.6164

Food Service:
Foodservice Facilities International
137 Elm Place
New Canaan, CT 06840 203.972.1605

Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

OVERALL ROOF PLAN

SCALE: As indicated

A-110

SITE PLAN SUBMISSION

AUGUST 15, 2019

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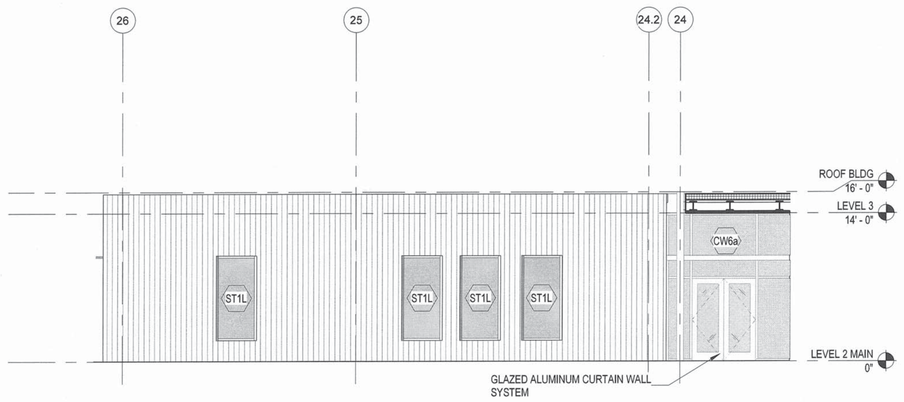
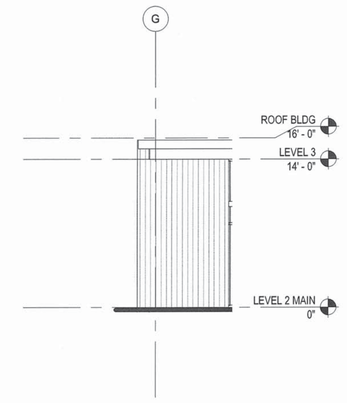
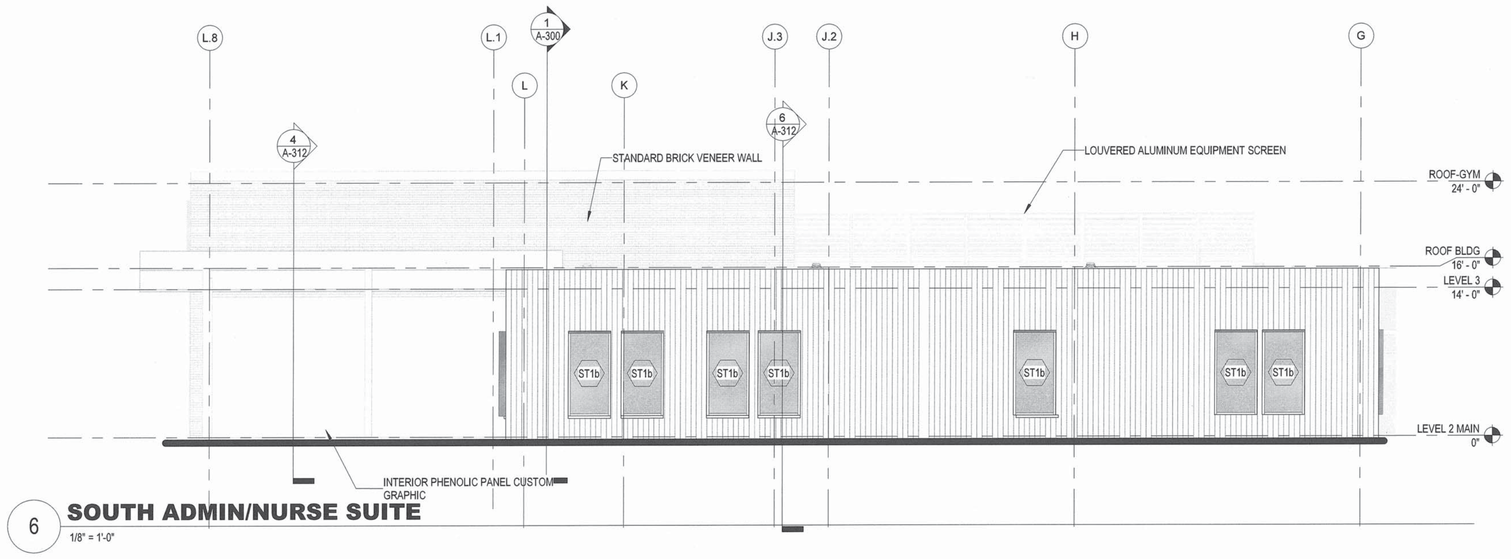


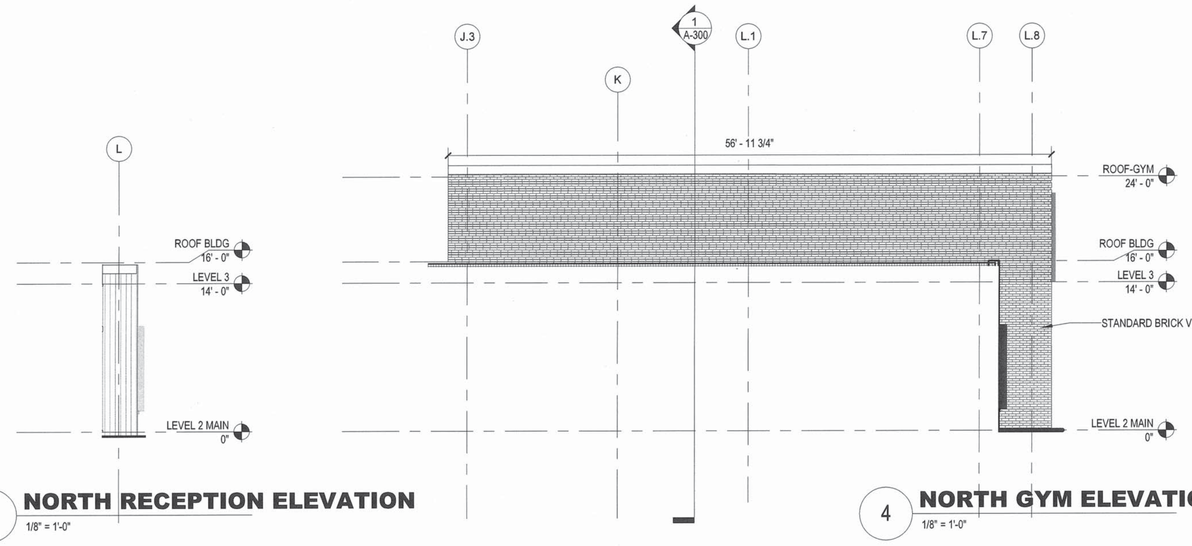
7 **EAST ADMIN/NURSE SUITE**
1/8" = 1'-0"



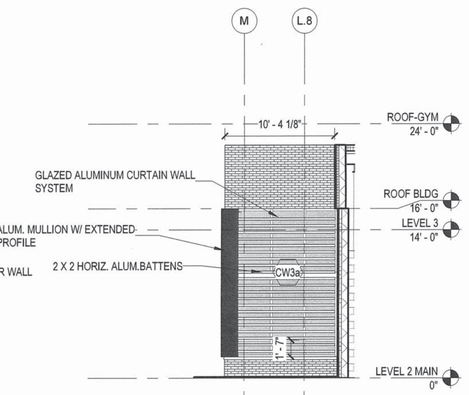
8 **NORTH ADMIN/NURSE SUITE**
1/8" = 1'-0"



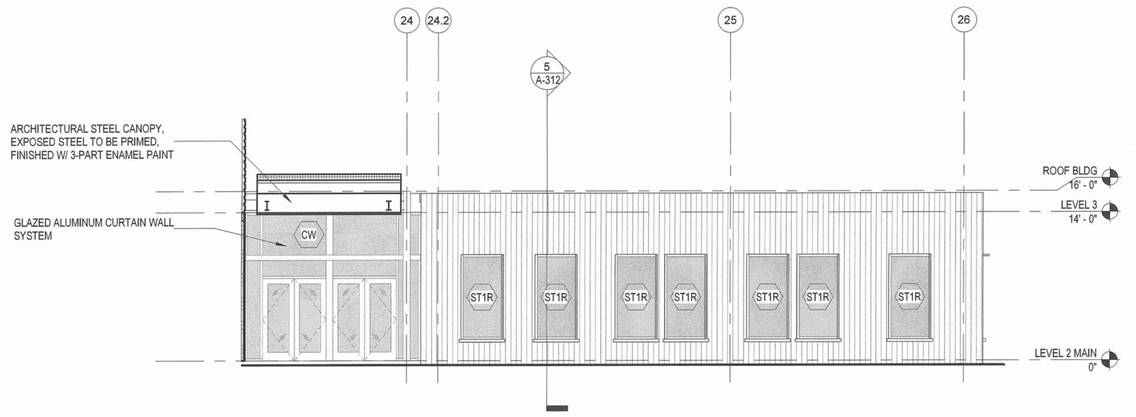
6 **SOUTH ADMIN/NURSE SUITE**
1/8" = 1'-0"



5 **NORTH RECEPTION ELEVATION**
1/8" = 1'-0"

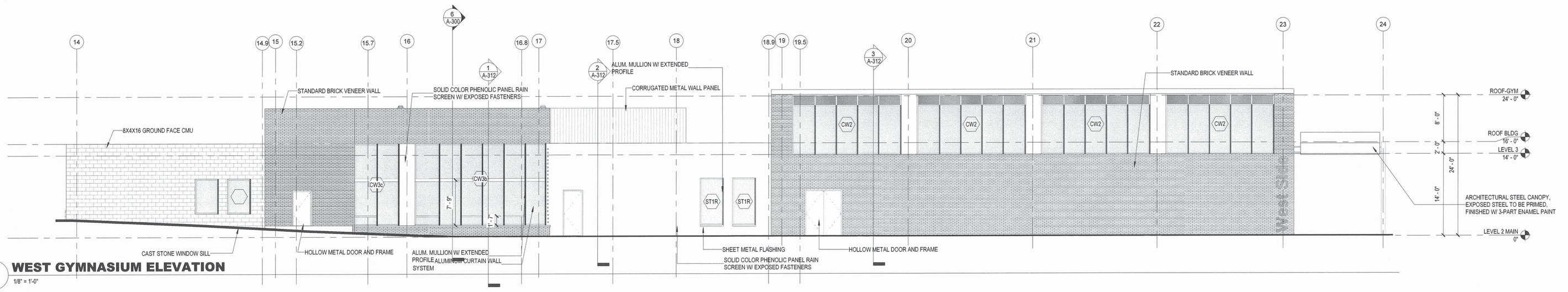


4 **NORTH GYM ELEVATION**
1/8" = 1'-0"



3 **SOUTH DINING ELEVATION**
1/8" = 1'-0"

2 **WEST RECEPTION ELEVATION**
1/8" = 1'-0"



1 **WEST GYMNASIUM ELEVATION**
1/8" = 1'-0"

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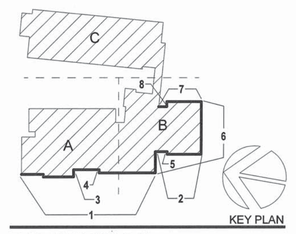
NO.	DATE	ISSUE

STATE OF CONNECTICUT
JOSEPH G. COSTA
No. 20351
REGISTERED ARCHITECT

SEAL



KEY PLAN

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
City of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

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Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

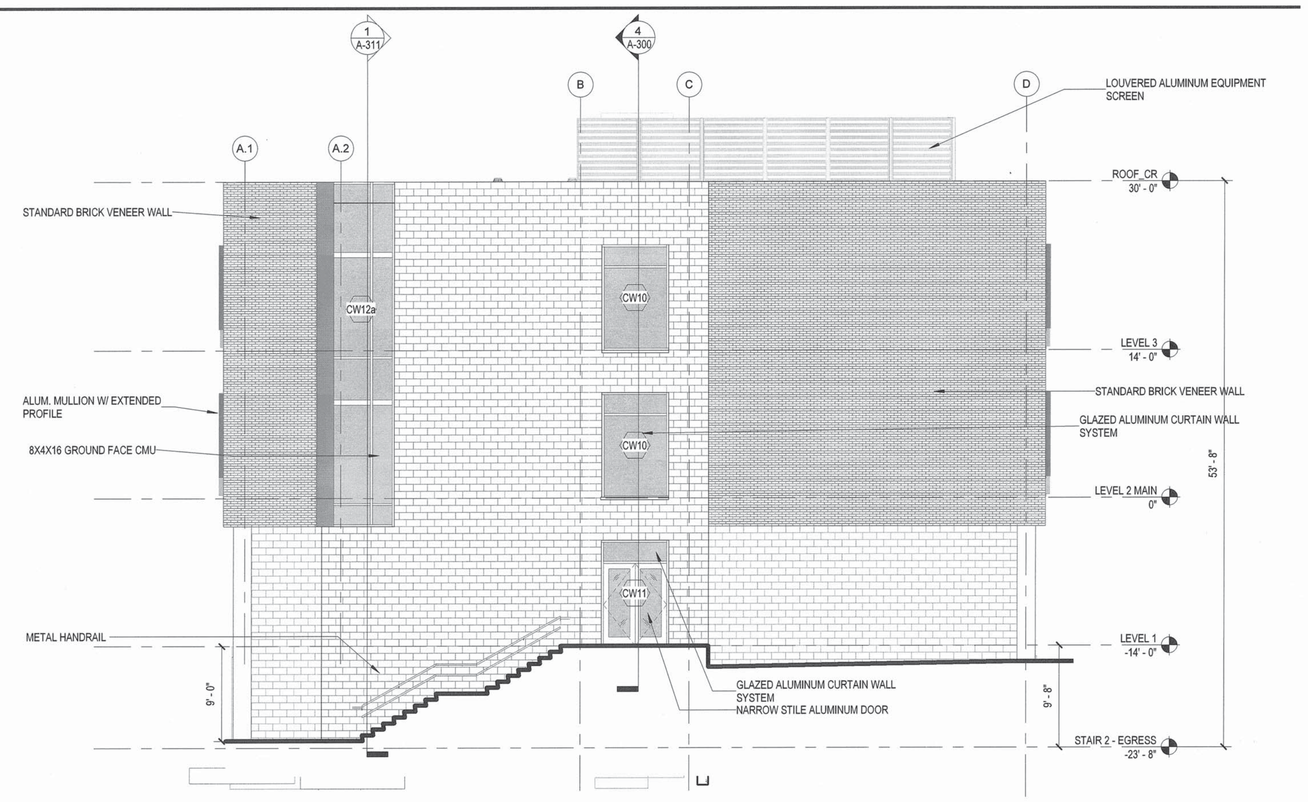
EXTERIOR ELEVATIONS

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

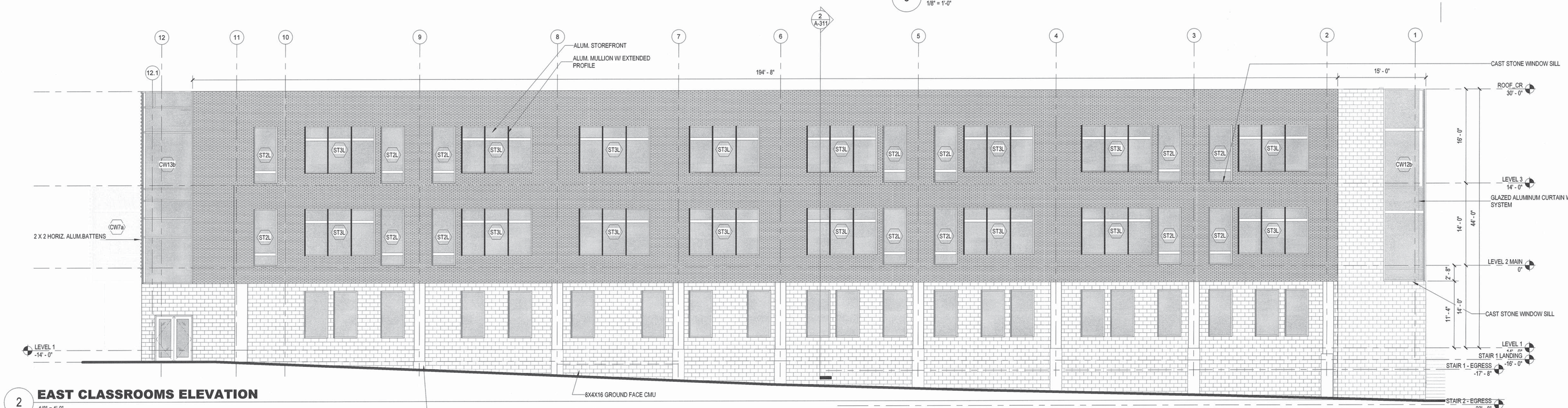
A-201

SITE PLAN SUBMISSION

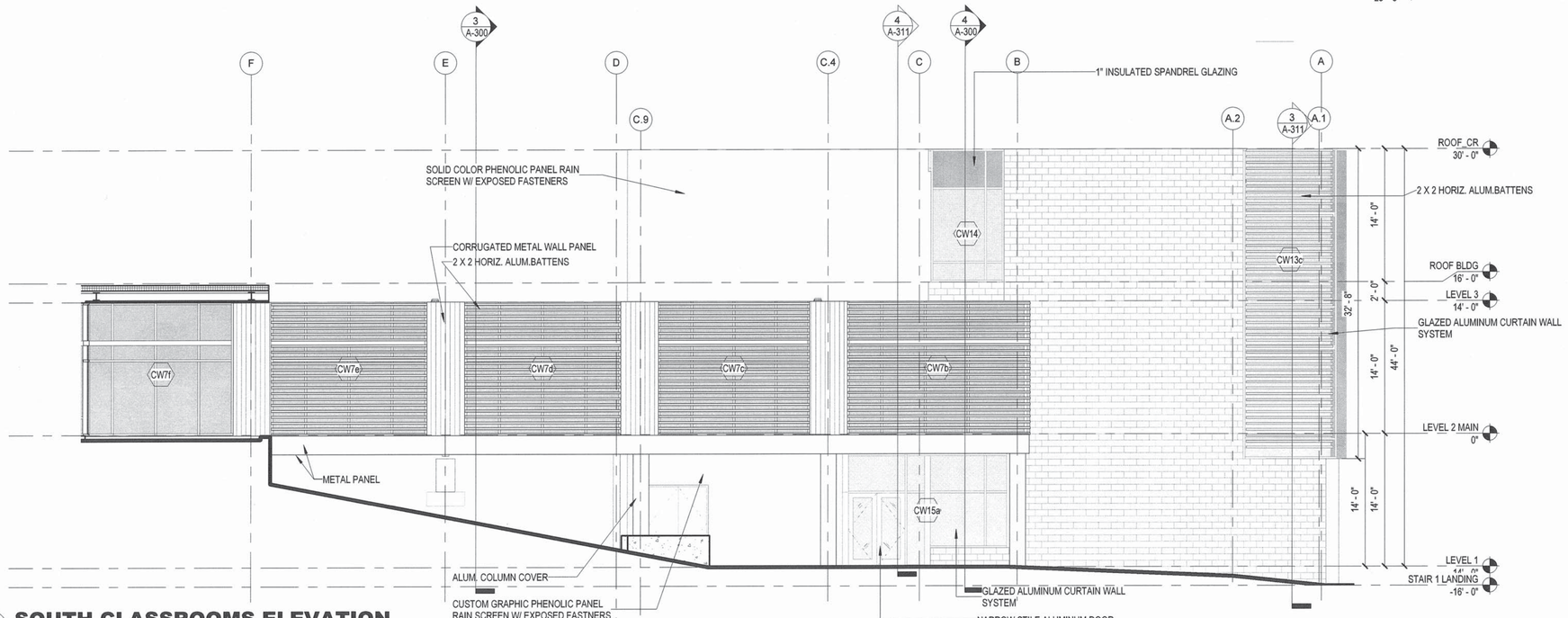
AUGUST 15, 2019



3 **NORTH CLASSROOMS ELEVATION**
1/8" = 1'-0"



2 **EAST CLASSROOMS ELEVATION**
1/8" = 1'-0"



1 **SOUTH CLASSROOMS ELEVATION**
1/8" = 1'-0"

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NO.	DATE	ISSUE

SEAL

KEY PLAN

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677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
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Sustainability Consultant:
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New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

EXTERIOR ELEVATIONS

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

A-202

SITE PLAN SUBMISSION

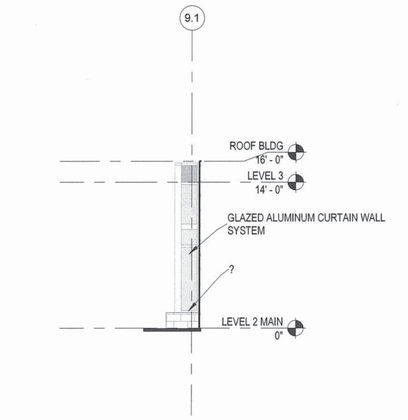
AUGUST 15, 2019

GENERAL NOTES - EXTERIOR ELEVATIONS

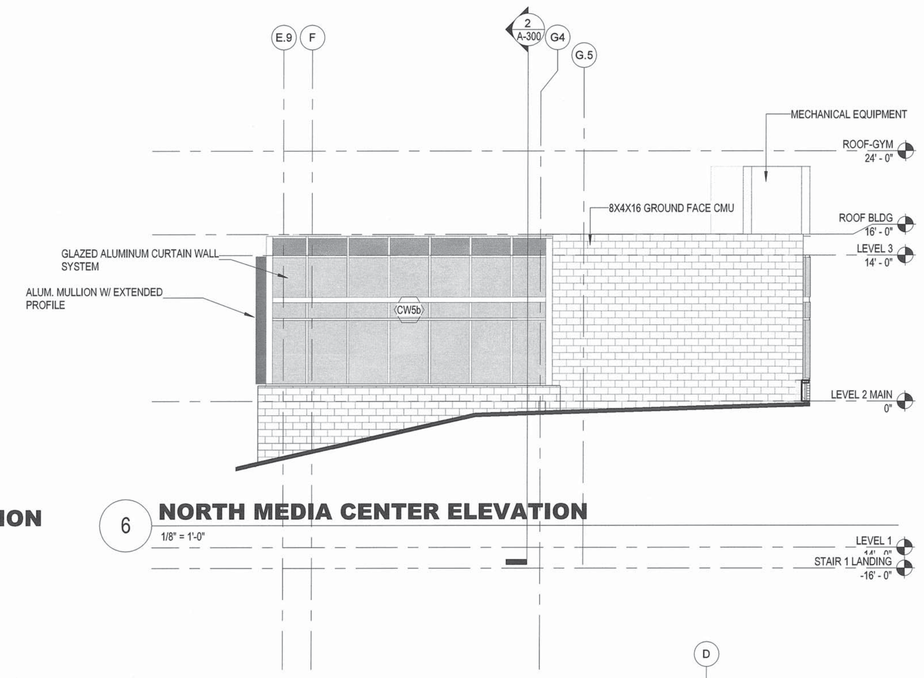
PROJECT DIRECTORS NOTE:

THIS IS A TEMPLATE AND IS NOT TO BE USED AS A GUIDE AS TO WHICH CHAPTERS ARE RELEVANT TO THE INDIVIDUAL PROJECT.

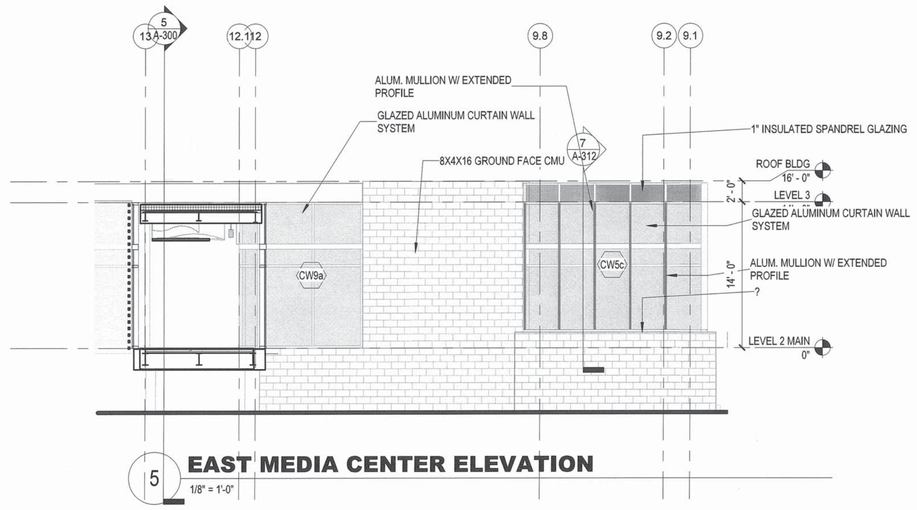
EDIT THE TEXT OF EACH SECTION TO ENSURE THAT THE CORRECT CHAPTERS ARE REFERENCED AND NOTE THAT THE CHAPTERS LISTED ARE *NOT* FINAL AND ADDITIONS AND DELETIONS WILL BE NECESSARY FOR THE SPECIFIC PROJECT REQUIREMENTS.



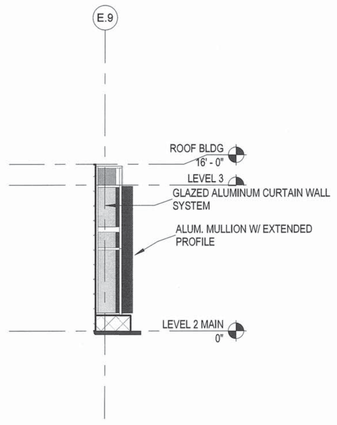
7 **WEST MEDIA CENTER ELEVATION**
1/8" = 1'-0"



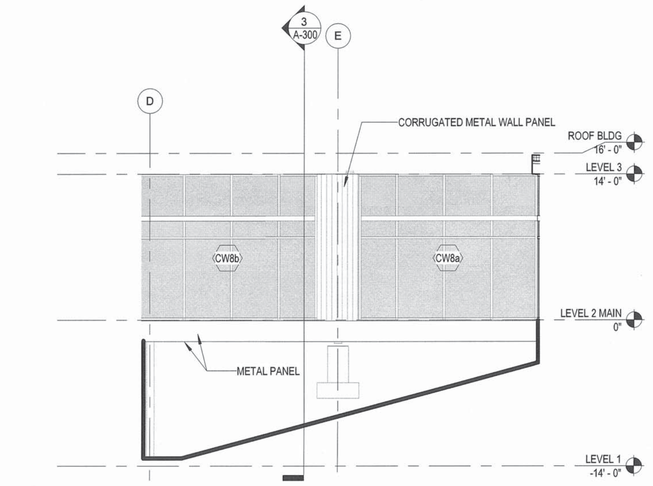
6 **NORTH MEDIA CENTER ELEVATION**
1/8" = 1'-0"



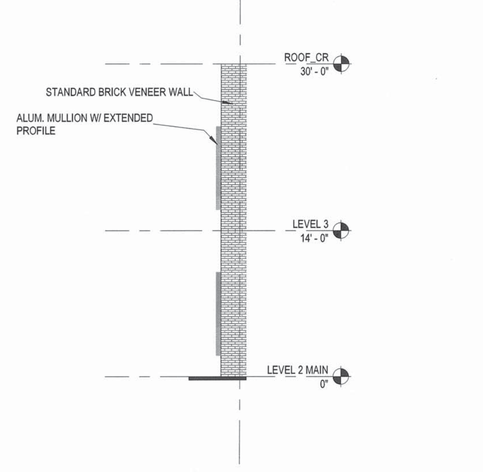
5 **EAST MEDIA CENTER ELEVATION**
1/8" = 1'-0"



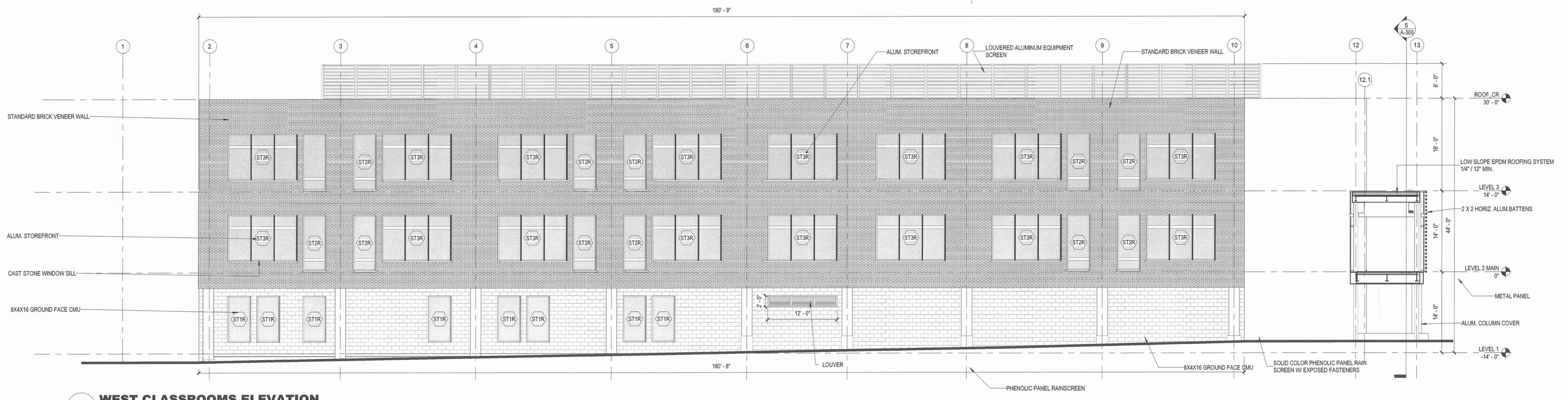
4 **SOUTH MEDIA CENTER**
1/8" = 1'-0"



3 **NORTH BRIDGE ELEVATION**
1/8" = 1'-0"



2 **SOUTH ACADEMY ELEVATION**
1/8" = 1'-0"



1 **WEST CLASSROOMS ELEVATION**
1/8" = 1'-0"

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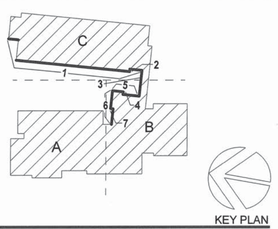
NO.	DATE	ISSUE

SEAL



KEY PLAN

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
City of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
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Avon, CT 06001 860.678.0669

Structural:
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206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

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Acoustical Consultant:
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Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

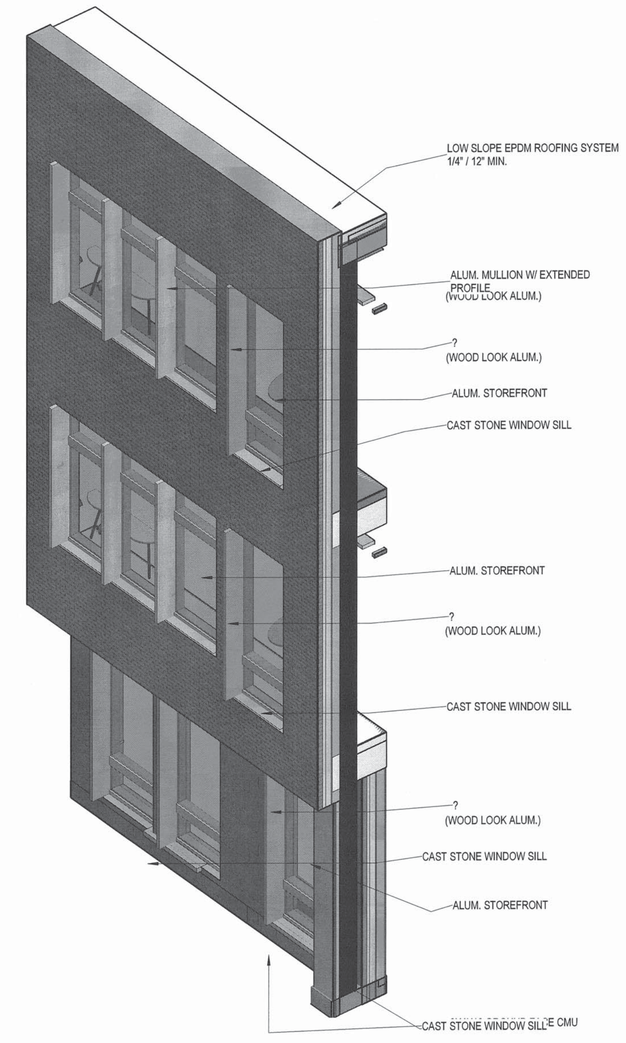
EXTERIOR ELEVATIONS

SCALE: As indicated

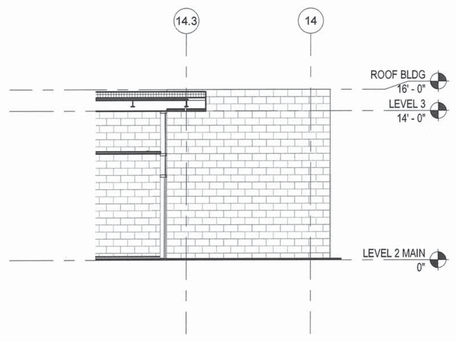
A-203

SITE PLAN SUBMISSION

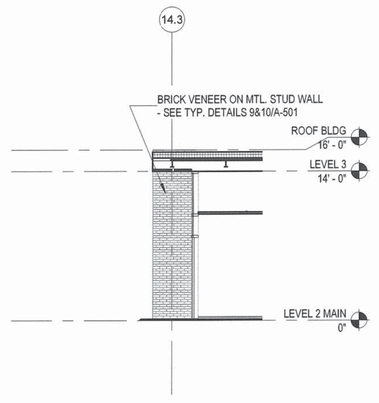
AUGUST 15, 2019



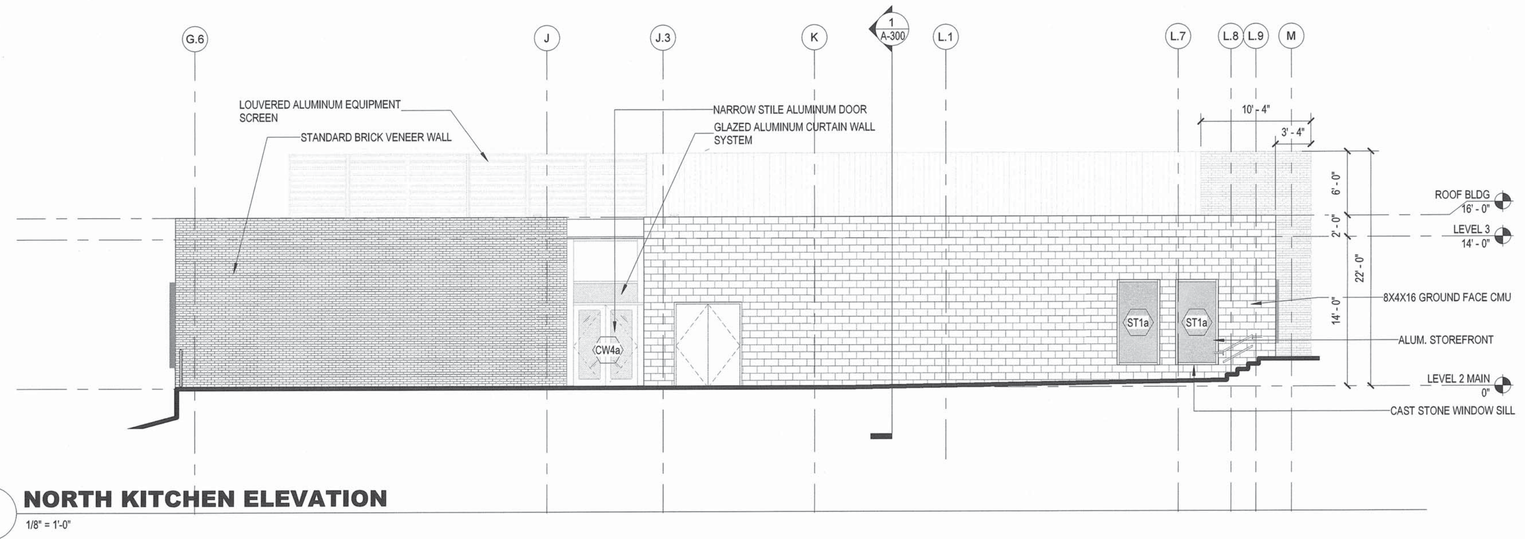
6 **TYP. CLASSROOM WINDOWS**



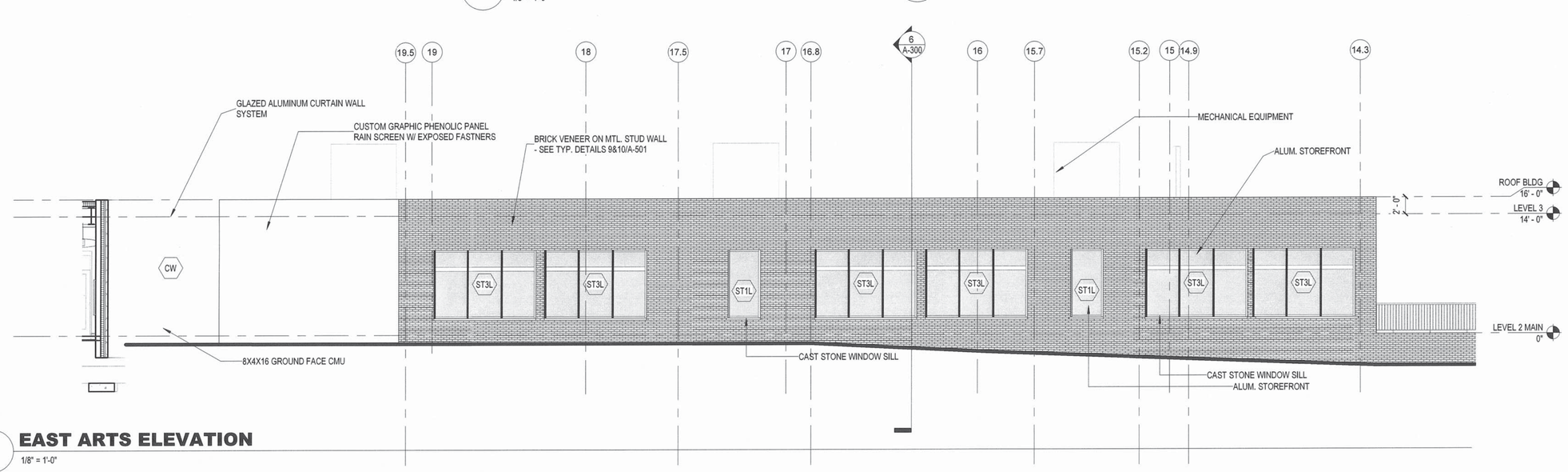
5 **EAST KITCHEN ELEVATION**
1/8" = 1'-0"



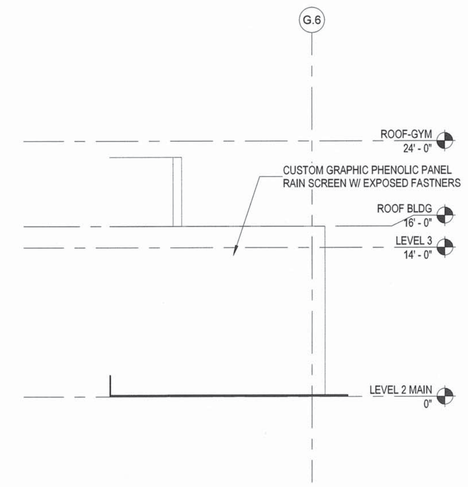
4 **WEST CHORAL ELEVATION**
1/8" = 1'-0"



3 **NORTH KITCHEN ELEVATION**
1/8" = 1'-0"



2 **EAST ARTS ELEVATION**
1/8" = 1'-0"



1 **SOUTH ART ELEVATION**
1/8" = 1'-0"

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NO.	DATE	ISSUE

SEAL

KEY PLAN

PERKINS EASTMAN
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798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

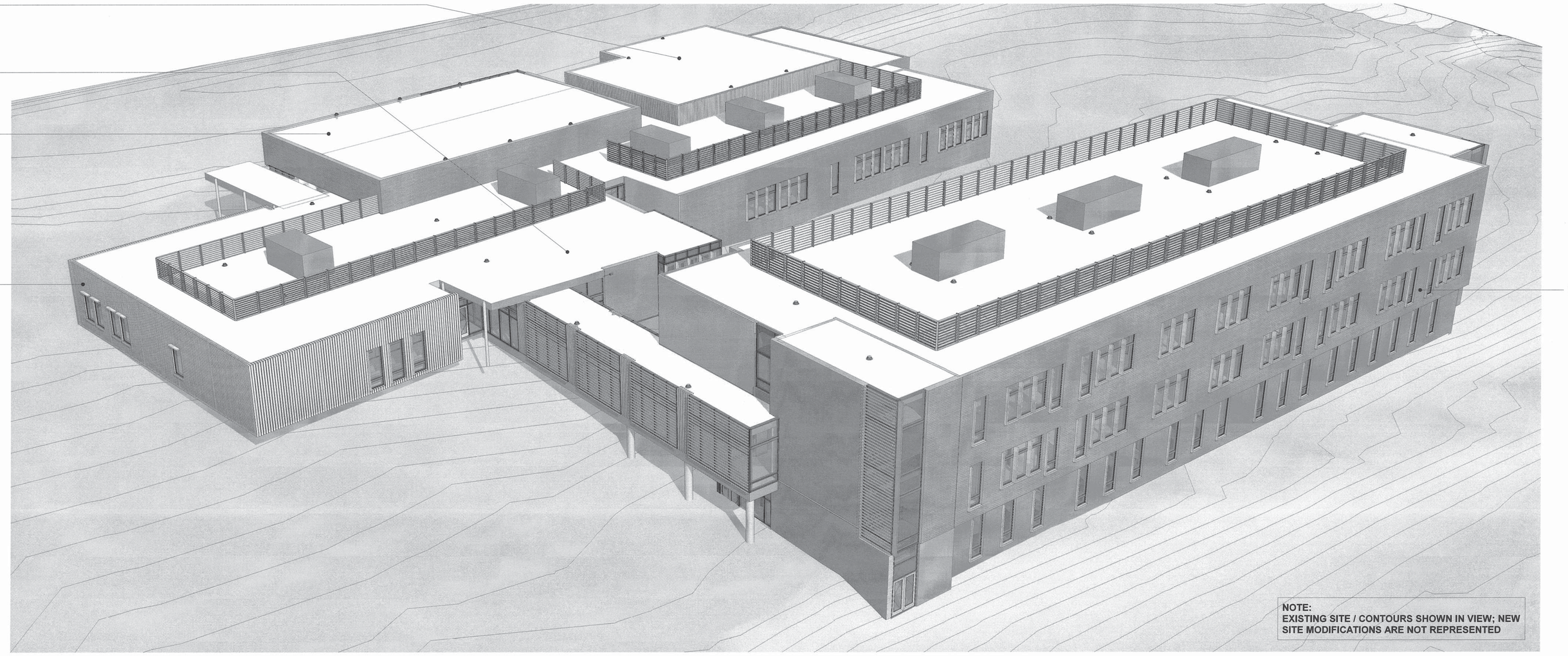
EXTERIOR ELEVATIONS

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

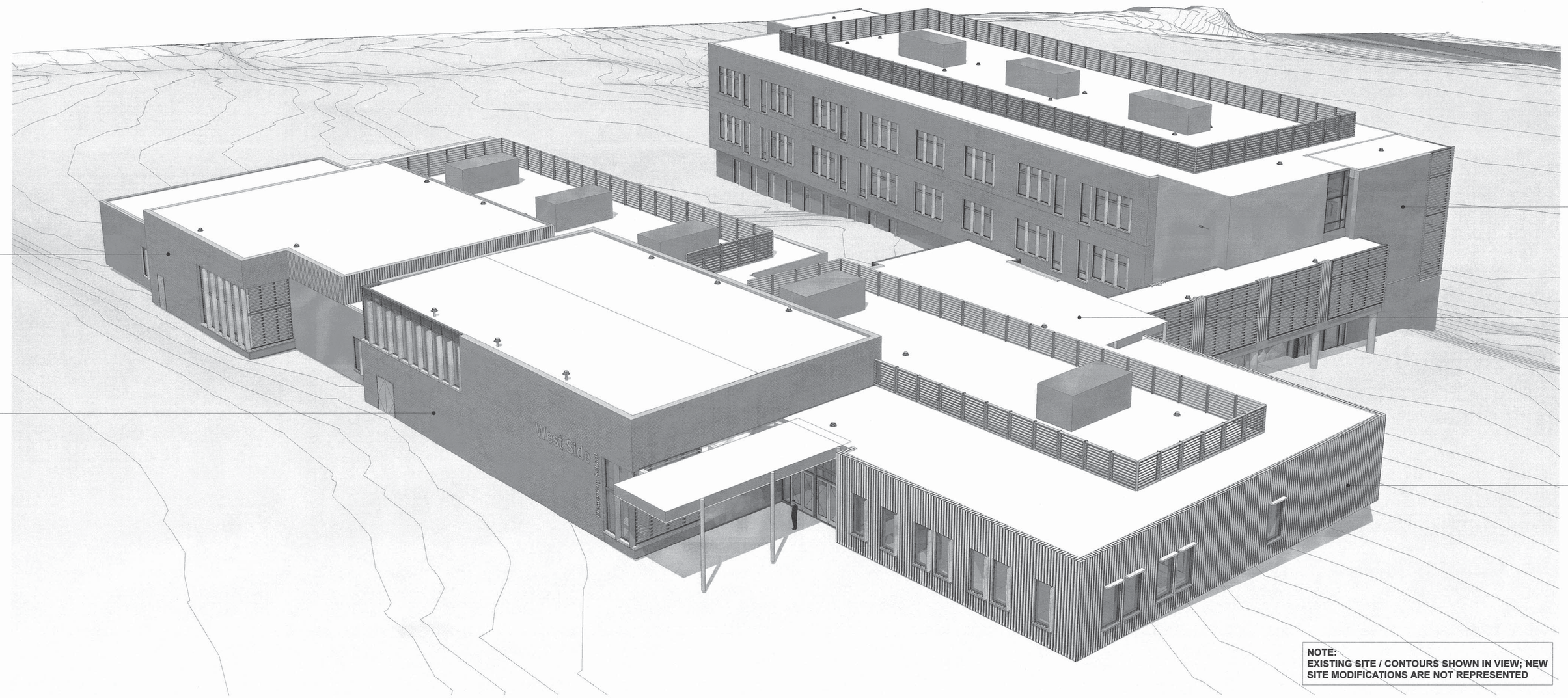
A-204

SITE PLAN SUBMISSION

AUGUST 15, 2019



2 **3D_AERIAL VIEW 2**



1 **3D_AERIAL VIEW 1**

FOR REFERENCE ONLY

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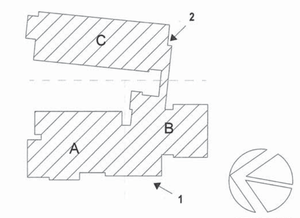
NO.	DATE	ISSUE

STATE OF CONNECTICUT JOSEPH G. COSSETTE 25751 REGISTERED ARCHITECT

SEAL



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PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
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PROJECT No: 74451

DRAWING TITLE:

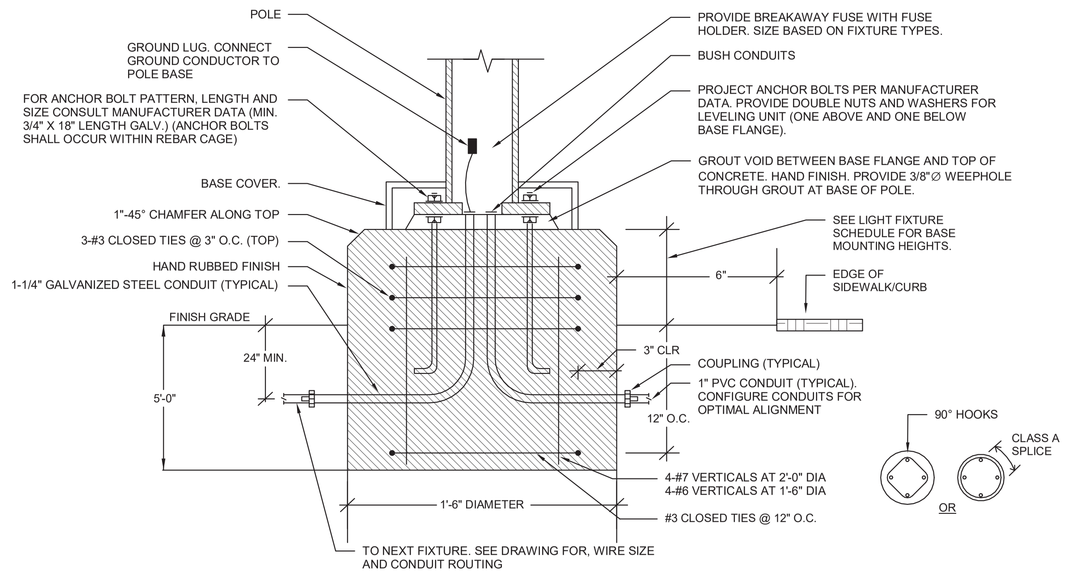
EXTERIOR AERIAL VIEWS

SCALE:

A-901

SITE PLAN SUBMISSION

AUGUST 15, 2019



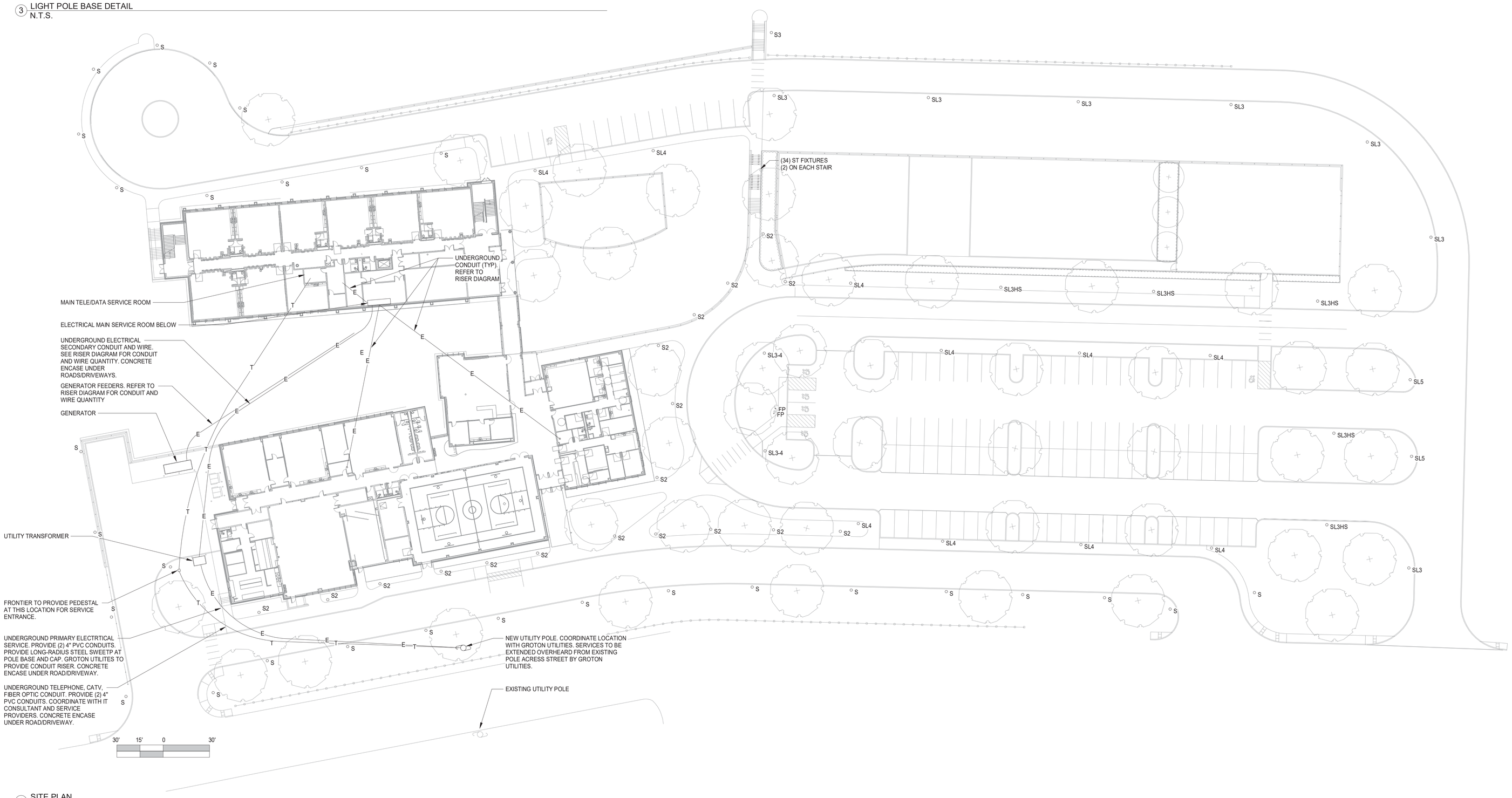
NOTES:

1. COORDINATE ANCHOR BOLT SIZE, QUANTITY AND LOCATION WITH MANUFACTURER. (ANCHOR BOLTS SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI.)
2. CONCRETE FOR FOOTINGS SHOWN ON THIS SHEET, SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM SPECIFIED 28 DAY COMPRESSIVE STRENGTH OF f'c= 4000psi. REINFORCING SHALL MEET ASTM A615 GR 60 KSI. GROUT SHALL HAVE A MINIMAL SPECIFIED 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI AND SHALL BE NON-METALLIC.
3. FIELD LOCATE ALL BASE LOCATIONS FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY CONFLICTS.
4. PROVIDE HAND-RUBBED FINISH ON ALL EXPOSED SURFACES OF FOOTINGS.
5. FOOTINGS ARE SIZED FOR SPECIFIED POLES AND FIXTURES SHOWN IN LIGHT FIXTURE SCHEDULE (THIS SHEET). IF POLES OR FIXTURES BEING PROVIDED ARE DIFFERENT THAN SPECIFIED, NOTIFY ENGINEER AS FOOTING SIZES MAY NEED TO BE MODIFIED TO COMPLY WITH THE SUBSTITUTED POLES/FIXTURES.

3 LIGHT POLE BASE DETAIL
N.T.S.

SITE LIGHTING NOTES

1. ALL FIXTURES SHALL BE INSTALLED SO THE HEAD IS PERPENDICULAR TO THE ROADWAY OR DRIVEWAY IT IS SERVING.



1 SITE PLAN
1" = 30'-0"

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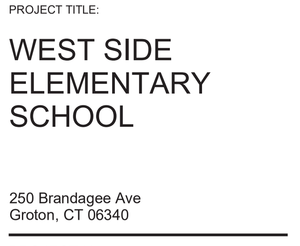
NO.	DATE	ISSUE

SEAL



KEY PLAN

PERKINS EASTMAN
677 Washington Blvd, Suite 101
Stamford, CT 06901
T. +1 203 251 7400
F. +1 203 251 7474

Owner:
City of Groton
Town Hall Annex 134 Groton Long Point Road
Groton, CT 06340 860.572.2100

Construction Manager:
O & G Industries
112 Wall Street
Torrington, CT 06790 860.489.9261

Owner's Representative:
Arcadis
207 Main Street, Suite 200
Hartford, CT 06106 860.906.1577

Civil / Site:
Milone & MacBroom
99 Realty Drive
Chesire, CT 06410 203.271.1773

Landscape:
Richter & Cegan
Avon Park North P.O. Box 567, 8B Canal Court,
Avon, CT 06001 860.678.0669

Structural:
BVH Integrated Services
206 West Newberry Road
Bloomfield, CT 06002 860.286.9171

Mechanical, Electrical, Plumbing & Fire Protection:
Diversified Technology Consultants
2321 Whitney Avenue, Suite 301
Hamden, CT 06518 203.239.4200

Technology and Security
D'Agostino & Associates
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Stamford, CT 06902 203.539.6164

Food Service:
Foodservice Facilities International
137 Elm Place
New Canaan, CT 06840 203.972.1605

Acoustical Consultant:
Acentech
33 Moulton Street
Cambridge, MA 02138 617.499.8000

Sustainability Consultant:
Atelier Ten
798 Chapel Street
New Haven, CT 06510 203.777.1400

PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

ELECTRICAL SITE PLAN

SCALE: As indicated

ES-100

DESIGN DEVELOPMENT

JUNE 21, 2019

Luminaire Schedule							
Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	BUG Rating	Description
29	S	SINGLE	3772	48	0.893	B1-U0-G1	SELUX ACL-R2-S1-L900-40-FINISH-VOLT / A-A40-250-14-FINISH-x
18	S2	SINGLE	1467	18.7	0.893	B1-U0-G1	SELUX ACL-R2-S1-L350-40-FINISH-VOLT / A-A40-250-14-FINISH-x
1	S3	SINGLE	2520	24	0.893	B1-U0-G1	SELUX ACL-R2-S1-5G1350-40-FINISH-VOLT / A-A40-250-14-FINISH-x
7	SL3	SINGLE	8276	64.7	0.850	B2-U0-G2	US ARCH RZR-PLED-III-W-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH
2	SL3-4	GROUP	N.A.	N.A.	0.850	N.A.	US ARCH RZR-PLED-III-W/IV-FT-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-2-180-FINISH
5	SL3HS	SINGLE	6344	64.7	0.850	B0-U0-G2	US ARCH RZR-PLED-III-W-40LED-525mA-NW-VOLT-FINISH-HS / SNTS-184-11-1-FINISH
10	SL4	SINGLE	8059	64.7	0.850	B2-U0-G3	US ARCH RZR-PLED-IV-FT-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH
2	SL5	SINGLE	8851	64.7	0.850	B4-U0-G2	US ARCH RZR-PLED-VSQ-W-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH

Calculation Summary						
Label	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
SITE CALC	0.55	6.4	0.0	N.A.	N.A.	0
WALKWAY	1.39	4.9	0.0	N.A.	N.A.	0
XXXXXXXXXX	2.09	4.2	1.6	1.68	2.63	0

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NO.	DATE	ISSUE

SEAL

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PROJECT TITLE:

WEST SIDE ELEMENTARY SCHOOL

250 Brandagee Ave
Groton, CT 06340

PROJECT No: 74451

DRAWING TITLE:

ELECTRICAL PHOTOMETRICS PART A

SCALE: 1" = 20' - 0"

ES-101

DESIGN DEVELOPMENT

JUNE 21, 2019

APPS: CK/DD
SALES: RT

Luminaire Schedule							
Qty	Label	Arrangement	Lum. Lumens	Lum. Watts	LLF	BUG Rating	Description
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18	S2	SINGLE	1467	18.7	0.893	B1-U0-G1	SELUX ACL-R2-S1-L350-40-FINISH-VOLT / A-A40-250-14-FINISH-x
1	S3	SINGLE	2520	24	0.893	B1-U0-G1	SELUX ACL-R2-S1-5G1350-40-FINISH-VOLT / A-A40-250-14-FINISH-x
7	SL3	SINGLE	8276	64.7	0.850	B2-U0-G2	US ARCH RZR-PLED-III-W-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH
2	SL3-4	GROUP	N.A.	N.A.	0.850	N.A.	US ARCH RZR-PLED-III-W/IV-FT-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-2-180-FINISH
5	SL3HS	SINGLE	6344	64.7	0.850	B0-U0-G2	US ARCH RZR-PLED-III-W-40LED-525mA-NW-VOLT-FINISH-HS / SNTS-184-11-1-FINISH
10	SL4	SINGLE	8059	64.7	0.850	B2-U0-G3	US ARCH RZR-PLED-IV-FT-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH
2	SL5	SINGLE	8851	64.7	0.850	B4-U0-G2	US ARCH RZR-PLED-VSQ-W-40LED-525mA-NW-VOLT-FINISH / SNTS-184-11-1-FINISH

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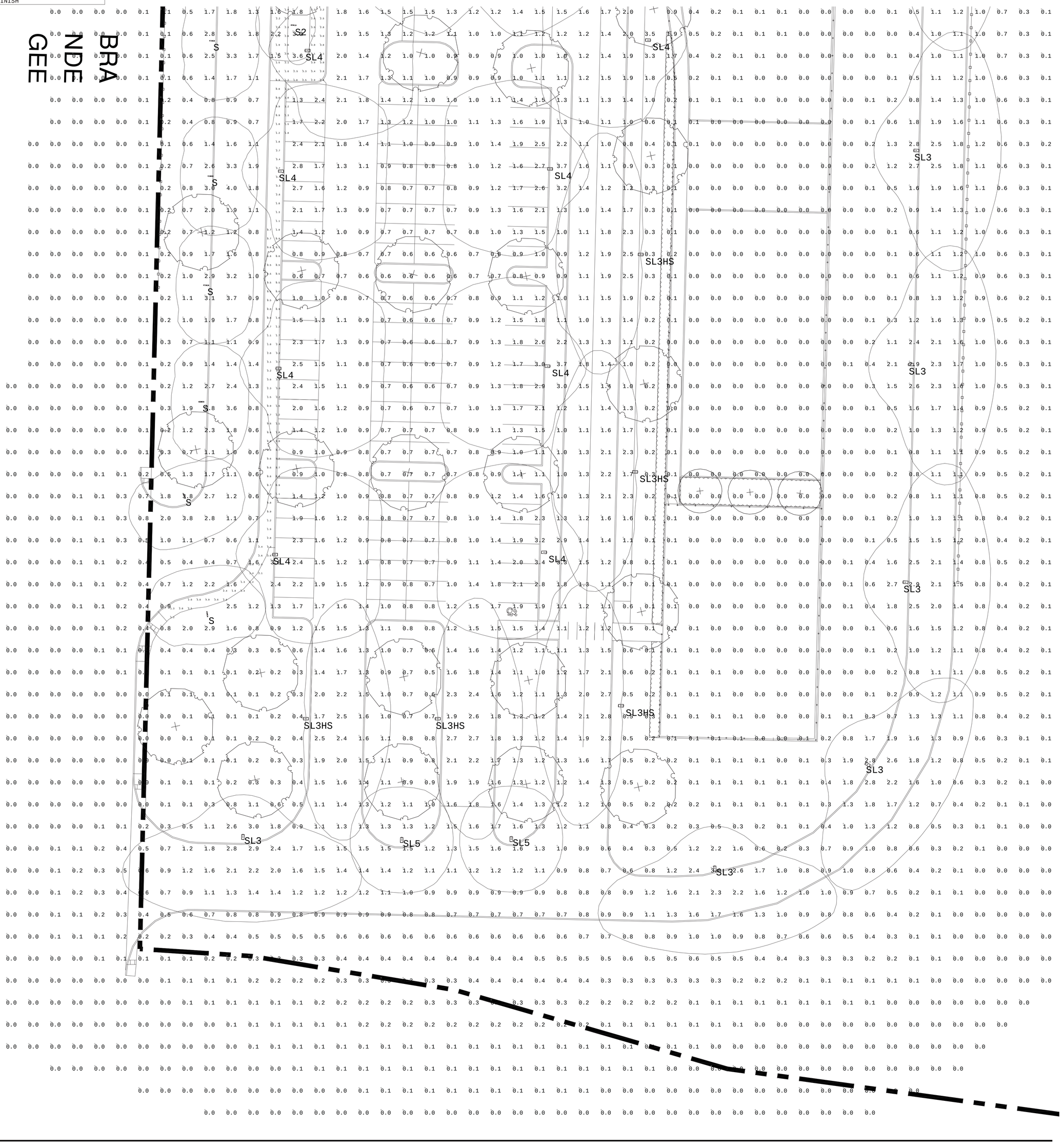
Label	Avg	Max	Min	Avg/Min	Max/Min	Grid Z
SITE CALC	0.55	6.4	0.0	N.A.	N.A.	0
WALKWAY	1.39	4.9	0.0	N.A.	N.A.	0
xxxxxxxxxx	2.69	4.2	1.6	1.68	2.63	0



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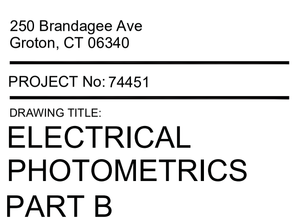

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PROJECT No: 74451

DRAWING TITLE:

ELECTRICAL PHOTOMETRICS PART B

SCALE: 1" = 20' - 0"

ES-102

DESIGN DEVELOPMENT

JUNE 21, 2019