



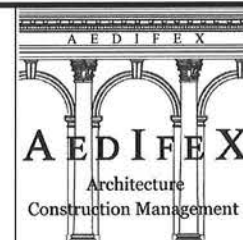
EXTERIOR DOOR & WINDOW SCHEDULE

SYMBOL	LOCATION	MRF.	MODEL #	FRAME OPENING		ROUGH OPENING		TYPE	JAMB WIDTH **	HEAD HT A F F	INT PRIMED	SCREEN	QTY	REMARKS
				W	H	W	H							
FF 01	UNIT #6 GARAGE	T.B.D.	T.B.D.	24"	44"	SEE MFGRS SPEC.	SEE MFGRS SPEC.	CASEMENT	6 9/16"	7'-0" (V.I.F.)	YES	YES	1	INSULATED GLAZING.
FF 02	MECHANICAL RMS.	T.B.D.	T.B.D.	30"	44"	SEE MFGRS SPEC.	SEE MFGRS SPEC.	CASEMENT	6 9/16"	7'-0" (V.I.F.)	YES	YES	5	INSULATED & TEMPERED GLAZING.
FF 03	UNIT #1 ENTRY			24"	44"			CASEMENT	6 9/16"	7'-0" (V.I.F.)			1	INSULATED GLAZING.
SF 01	DINING RM.			24"	44"			CASEMENT	6 9/16"	7'-0"			5	INSULATED & TEMPERED GLAZING.
SF 02	LIVING RM.			72"	84"			SLIDING PATIO DOOR	6 9/16"	7'-0"			5	INSULATED & TEMPERED GLAZING.
SF 03	LIVING RM.			24"	44"			CASEMENT	6 9/16"	7'-0"			5	INSULATED & TEMPERED GLAZING.
SF 04	STAIR			60"	80"			SLIDING PATIO DOOR		6'-8"			5	INSULATED & TEMPERED GLAZING.
SF 05	KITCHEN			48"	44"			DBL. CASEMENT		7'-0"			5	INSULATED & TEMPERED GLAZING.
SF 06	UNIT #6 LIVING RM.			48"	56"			DBL. CASEMENT		7'-0"			1	INSULATED GLAZING.
SF 07	UNIT #1 DINING RM.			80"	56"			(2) DBL. CASEMENT		7'-0"			1	INSULATED GLAZING.
TF 01	BATH #2			24"	44"			CASEMENT		6'-8"			5	INSULATED GLAZING.
TF 02	BED RM. #1 & BED RM. #2			80"	56"			(2) DBL. CASEMENT		6'-8"			10	INSULATED GLAZING, EGRESS WINDOW.
TF 03	BED RM. #2			24"	44"			CASEMENT		6'-8"			5	INSULATED GLAZING.
TF 04	STAIR			60"	56"			DBL. CASEMENT W/ FIXED MID. UNIT		6'-8"			5	INSULATED & TEMPERED GLAZING.
TF 05	BED RM. #2			24"	44"			CASEMENT		6'-8"			1	INSULATED GLAZING.
TF 06	BATH #1			24"	30"			CASEMENT		6'-8"			1	INSULATED & TEMPERED GLAZING.
TF 07	BATH #2			24"	44"			CASEMENT		6'-8"			1	INSULATED GLAZING.
TF 08	UNIT #1 HALL			30"	44"			FIXED CASEMENT		6'-8"			1	INSULATED GLAZING.
AF 01	MAST. BED RM. & MAST. BATH			80"	56"			(2) DBL. CASEMENT		6'-8"			10	INSULATED & TEMPERED GLAZING, EGRESS WINDOW.
AF 02	STAIR			60"	56"			DBL. CASEMENT W/ FIXED MID. UNIT		6'-0"			5	INSULATED & TEMPERED GLAZING.
AF 03	ATTIC	✓	✓	24"	44"	✓	✓	CASEMENT	✓	6'-8"	✓	✓	1	INSULATED GLAZING.

ALL WINDOWS TO BE LOW "E" ARGON GAS FILLED WITH A "U" FACTOR OF NOT LESS THAN 0.29, INSULATED WITH THERMAL-BREAK FRAMES. ALL WINDOWS SHALL BE EXTERIOR CLAD. SUPPLY SCREENS AS REQUIRED. PROVIDE TEMPERED GLASS WINDOWS AT ALL DOORS, STAIRS, AND TUB/SHOWER LOCATIONS. PROVIDE EGRESS WINDOWS AT ALL BEDROOM LOCATIONS. THIS IS A PRELIMINARY WINDOW SCHEDULE. AEDIFEX, LLC OR ANY OF ITS EMPLOYEES, OWNERS, ETC. DOES NOT TAKE ANY RESPONSIBILITY FOR SIZES, LOCATIONS, FRAMES, ETC. UNTIL ACCURATE DETAILS HAVE BEEN SUBMITTED FOR REVIEW. VERIFICATION OF EXACT WINDOW SIZES, ROUGH OPENINGS, ETC. RESTS SOLELY WITH THE GENERAL CONTRACTOR AND/OR 239-241 HENRY STREET ASSOCIATES, LLC.

CLIENT  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
ARCHITECTURE & CONSTRUCTION MANAGEMENT  
340 NASH ROAD  
NORTH SALEM, NY 10560  
TEL : 914-485-1040



PROPOSED 5-UNIT  
4 STORY TOWNHOUSE  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

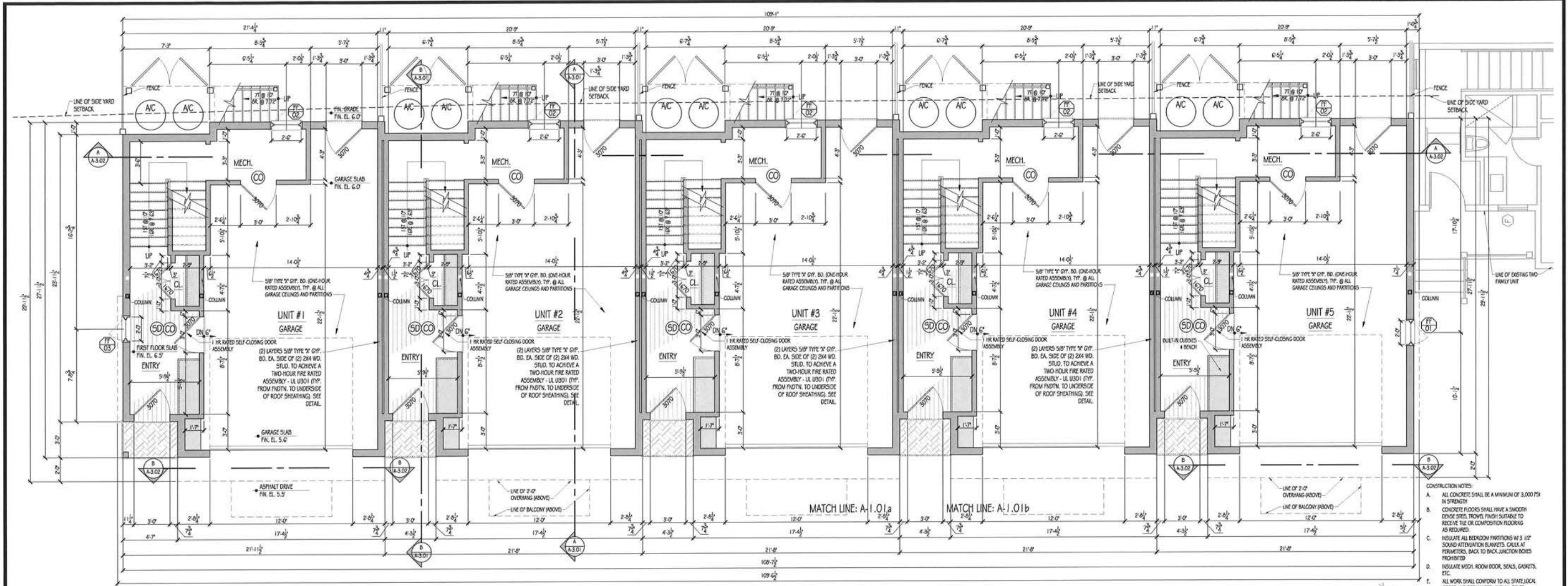
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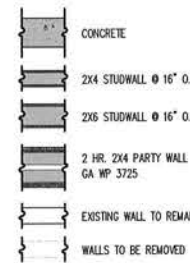
DRAWING TITLE:  
EXTERIOR DOOR  
& WINDOW  
SCHEDULE

DRAWING NO.:  
**A-0.02**

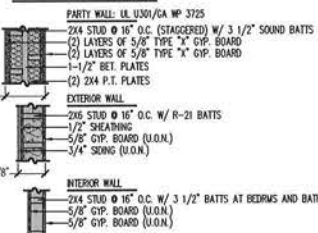


FIRST FLOOR PLAN  
SCALE: 1/4" = 1'-0"

**SYMBOLS**



**DIMENSIONING**

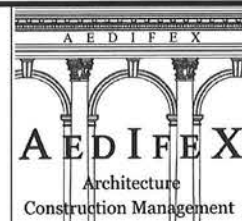


**ELECTRICAL NOTES:**

- A. VERIFY DIMENSION LOCATIONS W/ OWNER/ARCHITECT.
- B. SURFACE MTD. TYP. # 4 WALL SWITCHES TO BE SELECTED BY OWNER.
- C. PROVIDE EXHAUST FANS AT ALL BATHROOMS AND KITCHEN. VENT EXHAUST FANS TO EXTERIOR.
- D. VERIFY ELEC. REMAINS, W/ OTHER TRADES.
- E. ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE NEC AND THE NATIONAL ELECTRICAL CODE.
- F. ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
- G. SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (BATTERY) OR TO THE INTEGRAL ALARM SYSTEM (BATTERY) AS CALLED BY THE CONTRACTOR'S SCHEDULE.
- H. TELEPHONE & COMMUNICATION WIRING TO BE CONTRACTOR'S CARE BY A/E.
- I. PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- J. SMOKE DETECTOR
- K. HEAT DETECTOR
- L. CARBON MONOXIDE DETECTOR
- M. COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR
- N. ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE U.L. LISTED AND INSTALLED IN ACCORDANCE WITH SAME.
- O. ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CSDE, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
- P. PROVIDE SHUT-OFF VALVES AT ALL FIXTURES AND APPLIANCES.
- Q. INSULATE ALL HOT AND C.O.D. WATER SUPPLY LINES W/ 1" DENSITY POLYPROPYLENE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SEALED HIGH-DENSITY FIBERGLASS WOVEN.
- R. ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
- S. CONCRETE FLOORS SHALL HAVE A SMOOTH GROSS SUEL FINISH. FINISH SURFACE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
- T. INSULATE ALL BEDROOM PARTITIONS W/ 3" (2" SOUND ATTENUATION BLANKETS. CALL AT FIXTURES, BACK TO BACK LUNCTION BODIES PROHIBITED.
- U. INSULATE MECH. ROOM DOOR, SEALS, GASKETS, ETC.
- V. ALL WORK SHALL CONFORM TO ALL STATE/LOCAL CODES AND ORDINANCES, AND ALL OTHER AREAS HAVING JURISDICTION.
- W. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
- X. THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
- Y. THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
- Z. TUB & SHOWER AREAS TO RECEIVE 5/8" CERAMIC TILE BACKER BOARD, DRAIN AREAS TO RECEIVE 5/8" WATER RESISTANT GIB.
- AA. HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72°F ROOM TEMPERATURE WITH 90°F OUTDOOR TEMPERATURE AND 70°F ROOM TEMPERATURE WITH 90°F OUTDOOR TEMPERATURE WITH MAXIMUM SET BACK THERMOSTAT BY "CARRIER" OR APPROVED EQUAL, MIN. SEER = 14. DUCT LAYOUT TO BE APPROVED BY ARCHITECT AND OWNER. NO SHORTS WILL BE ALLOWED WITHOUT ARCHITECT / OWNER CONSENT.

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**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

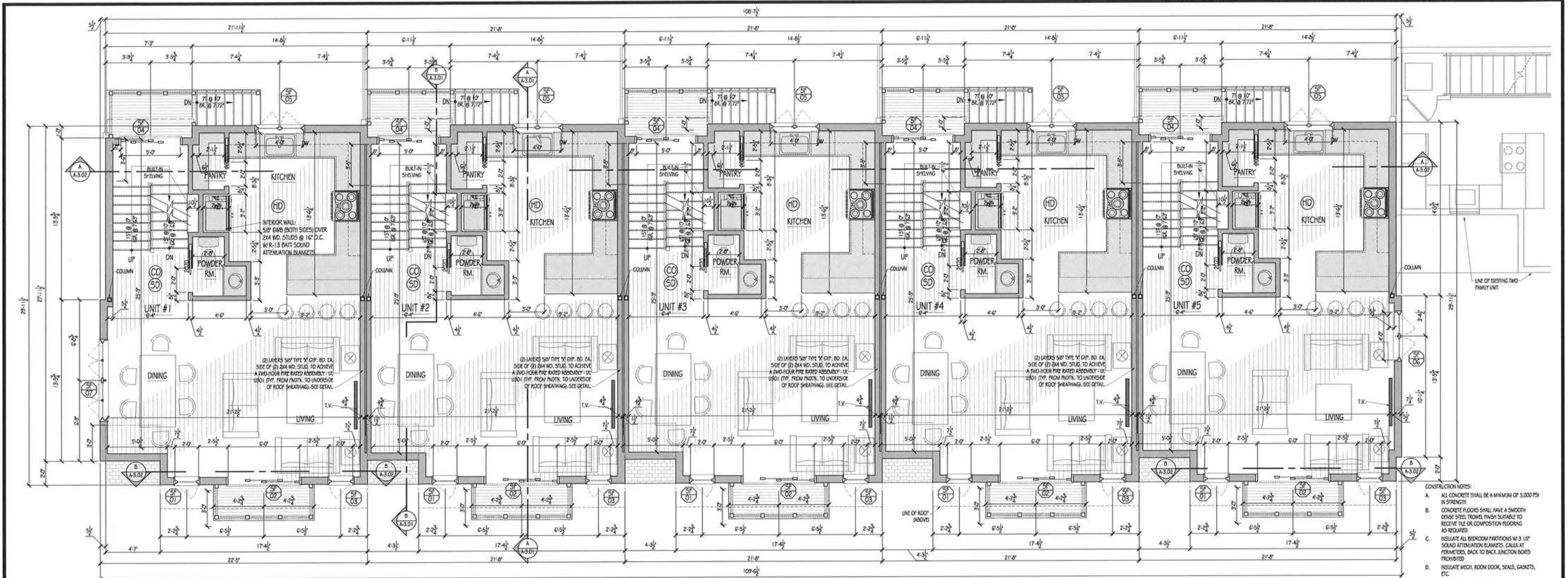
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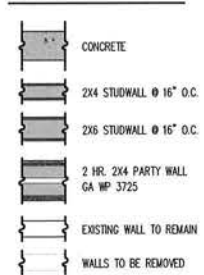
DRAWING TITLE:  
FIRST FLOOR  
PLAN

DRAWING NO.:  
**A-1.01**

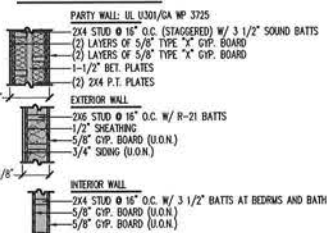


**SECOND FLOOR PLAN**  
SCALE : 1/4" = 1'-0"

**SYMBOLS**



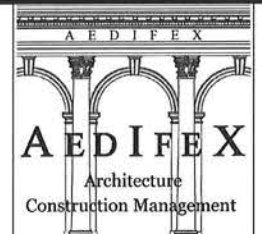
**DIMENSIONING**



- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH DENSE SILEX TROWEL FINISH SUITABLE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BEDROOM PARTITIONS W/ 3" 1/2" SOUND ATTENUATION BLANKETS, CALL AT FINISHERS, BACK TO BACK, JOINTS/BOXES PROHIBITED.
  - INSULATE MECH. ROOM DOOR, SEALS, GASKETS, ETC.
  - ALL WORK SHALL CONFORM TO ALL STATE, LOCAL, CODES AND ORDINANCES, AND ALL OTHER AREAS HAVING JURISDICTION.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
  - THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
  - THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
  - TUB & SHOWER AREAS TO RECEIVE 5/8" CONTINUOUS BACKER BOARD, DAMP AREAS TO RECEIVE 5/8" WATER RESISTANT GIBS.
  - HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72° INDOOR TEMPERATURE WITH 0° OUTDOOR TEMPERATURE AND 70° INDOOR TEMPERATURE WITH 95° OUTDOOR TEMPERATURE WITH MAXIMUM SET BACK THROUGHOUT YEAR OR APPROVED EQUAL, MIN. SEER = 14. DUCT LEAKS TO BE APPROVED BY ARCHITECT AND OWNER, NO SHORTS WILL BE ALLOWED WITHOUT ARCHITECT/OWNER CONSENT.
  - ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE U.L. LABELED AND INSTALLED IN ACCORDANCE WITH SAME.
  - ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CISCAC, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
  - PROVIDE SHUT-OFF VALVES AT ALL FIXTURES AND APPLIANCES.
  - INSULATE ALL HOT AND COOL WATER SUPPLY LINES W/ 1" DENSITY POLYURETHANE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SEALED 1/2" DENSITY FIBERGLASS WOOL.
- ELECTRICAL NOTES:**
- VERIFY OWNER LOCATIONS W/ OWNER/ARCHITECT.
  - SURFACE MTD. TYPES, # WALL SWITCHES TO BE SELECTED BY OWNER.
  - PROVIDE EXHAUST FANS AT ALL BATHROOM AND KITCHEN VENT EXHAUST FANS TO EXTERIOR.
  - VERIFY ELECT. RECEPTS, W/ OTHER TRADES.
  - ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CISCAC AND THE NATIONAL ELECTRICAL CODE.
  - ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
  - SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (UNWITNESSED) OR TO THE INTEGRAL ALARM SYSTEM.
  - TELEPHONE & COMMUNICATION WIRING TO BE CATEGORY 5 CABLE BY A/E.
  - PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- (SD) SMOKE DETECTOR  
 (ED) HEAT DETECTOR  
 (CD) CARBON MONOXIDE DETECTOR  
 (CSD) COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

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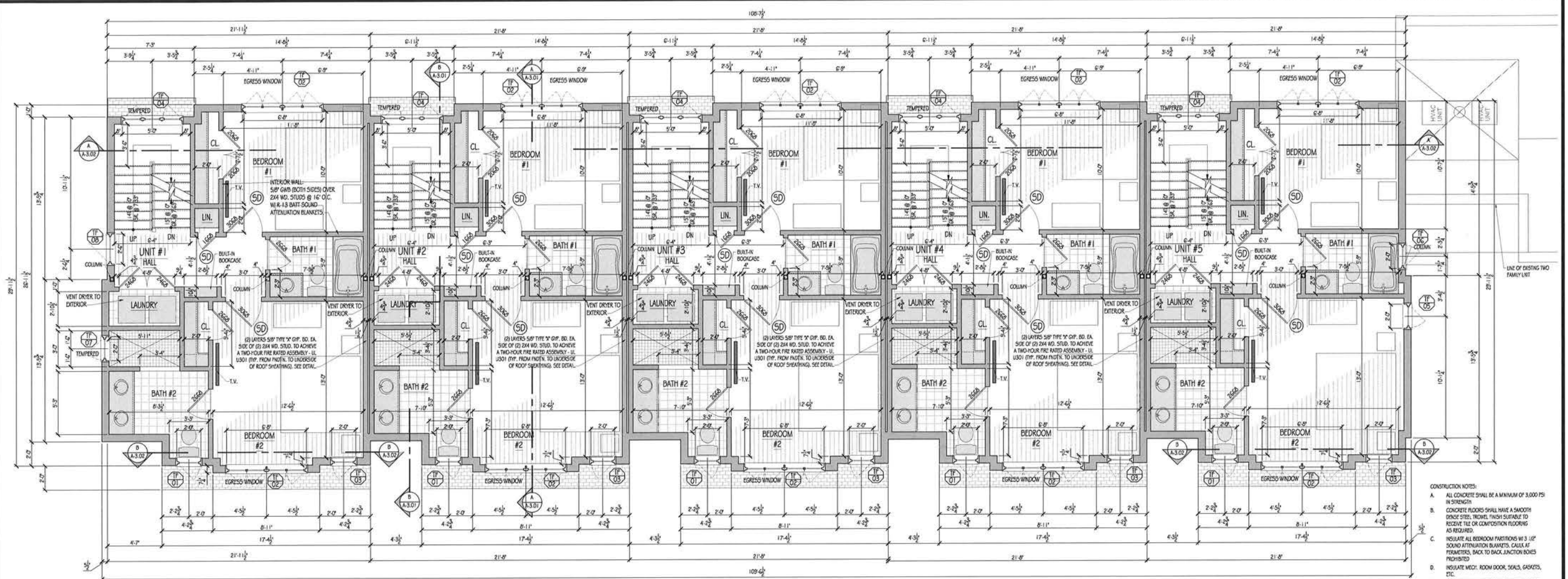


**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

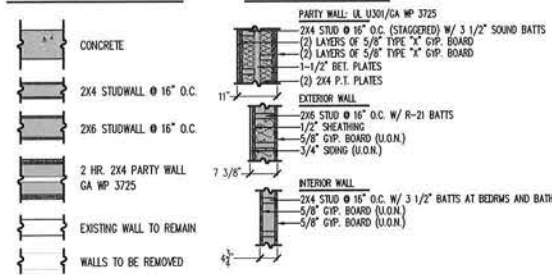
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 ISSUE DATE:  
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**DRAWING TITLE:**  
SECOND FLOOR PLAN  
  
**DRAWING NO.:**  
A-1.02



**THIRD FLOOR PLAN**  
SCALE : 1/4" = 1'-0"

**SYMBOLS**



- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH FINISH. TROWEL FINISH SUITABLE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BEDROOM PARTITIONS WITH 3" (2" SOUND ATTENUATION BLANKETS, 1" GIP. BOARD) INSULATION. BACK TO BACK JUNCTION BOXES PROHIBITED.
  - INSULATE MECH. ROOM DOOR, SEALS, GASKETS, ETC.
  - ALL WORK SHALL CONFORM TO ALL STATE, LOCAL CODES AND ORDINANCES, AND ALL OTHER AREAS HAVING JURISDICTION.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
  - THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
  - THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
  - TUB & SHOWER AREAS TO RECEIVE 5/8" CONCRETE OVER BACKER BOARD. DRAIN AREAS TO RECEIVE 5/8" WATER RESISTANT GWB.
  - HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72°F INDOOR TEMPERATURE WITH 0°F OUTDOOR TEMPERATURE AND 70°F INDOOR TEMPERATURE WITH 55°F OUTDOOR TEMPERATURE WITH WATSON SET BACK THERMOSTAT BY CARBUER OR APPROVED EQUAL, MIN. SEQR = 14. DUCT LAYOUT TO BE APPROVED BY ARCHITECT AND OWNER. NO SHORTS WILL BE ALLOWED WITHOUT ARCHITECT'S OWNER CONSENT.
  - ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE U.L. LISTED AND INSTALLED IN ACCORDANCE WITH SAME.
  - ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CSFS, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
  - PROVIDE SHUT-OFF VALVES AT ALL FIXTURES AND APPLIANCES.
  - INSULATE ALL HOT AND COLD WATER SUPPLY LINES WITH 1" DENSITY POLYPROPYLENE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SCALED DENSITY FIBERGLASS WRAPS.
- ELECTRICAL NOTES:**
- VERIFY DIMMER LOCATIONS WITH OWNER/ARCHITECT.
  - SURFACE MTD. TAPS, 4 WALL SWITCHES TO BE SELECTED BY OWNER.
  - PROVIDE EXHAUST FANS AT ALL BATHROOMS AND KITCHEN VENT EXHAUST FANS TO EXTERIOR.
  - VERIFY ELECT. RECEPTS, W/ OTHER TRADES.
  - ELECTRICAL INSULATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CSFS AND THE NATIONAL ELECTRICAL CODE.
  - ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
  - SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (UNSWITCHED) OR TO THE INTEGRAL ALARM SYSTEM.
  - TELEPHONE & COMMUNICATION WIRING TO BE CATEGORY 3 CABLE BY AIRE.
  - PROVIDE ELECTRICAL SERVICE 4 CONTROL WIRING FOR NEW CENTRAL AC UNITS.
  - SMOKE DETECTOR
  - HEAT DETECTOR
  - CARBON MONOXIDE DETECTOR
  - COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

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**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

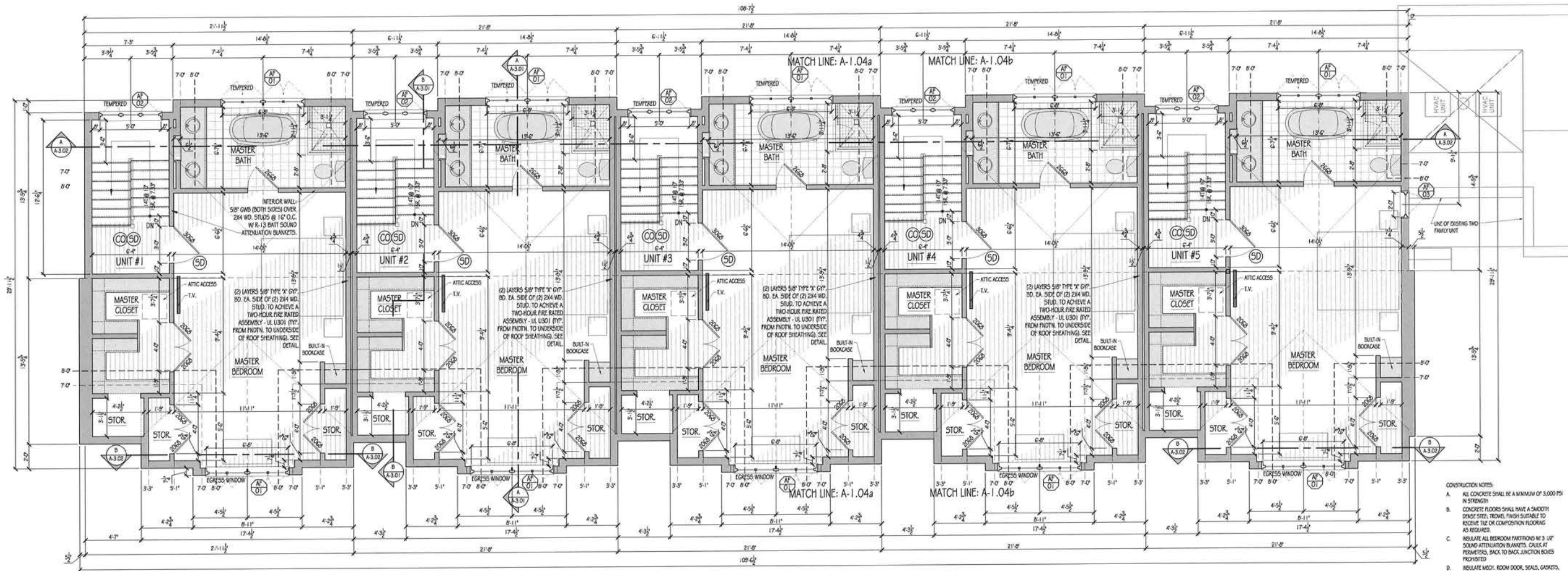
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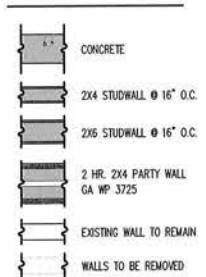
DRAWING TITLE:  
**THIRD FLOOR PLAN**

DRAWING NO.:  
**A-1.03**

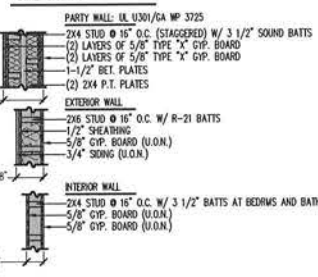


**FOURTH FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

**SYMBOLS**



**DIMENSIONING**



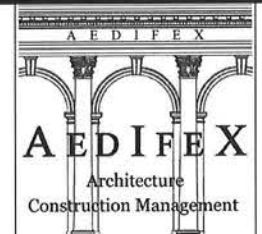
- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH DOSE SET, TROWEL FINISH SURFACE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BEDROOM PARTITIONS W/ 3" R2 SOUND ATTENUATION BARRIERS, GASKET PERIMETERS, BACK TO BACK JUNCTION BOXES PROHIBITED.
  - INSULATE MDOI: ROOM DOOR, SEALS, GASKETS, ETC.
  - ALL WORK SHALL CONFORM TO ALL STATE/LOCAL CODES AND ORDINANCES, AND ALL OTHER APPLICABLE JURISDICTION.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
  - THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
  - THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
  - TUB & SHOWER AREAS TO RECEIVE SIP CONCRETE BACKER BOARD, DRAIN AREAS TO RECEIVE SIP WATER RESISTANT GMB.
  - HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72°F INDOOR TEMPERATURE WITH 0°F OUTDOOR TEMPERATURE AND 70°F INDOOR TEMPERATURE WITH 50°F OUTDOOR TEMPERATURE WITH MATCHING SET-BACK THERMOSTAT BY "KARBER" OR APPROVED EQUAL, MIN. SEER = 14. DUCT LAYOUT TO BE APPROVED BY ARCHITECT AND OWNER. NO SHORTS WILL BE ALLOWED WITHOUT ARCHITECT / OWNER CONSENT.
  - ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE U.L. LABELED AND INSTALLED IN ACCORDANCE WITH SAME.
  - ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CSDE, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
  - PROVIDE SHUT-OFF VALVES AT ALL FIXTURES AND APPLIANCES.
  - INSULATE ALL HOT AND COLD WATER SUPPLY LINES W/ 1" H-DENSITY POLYPROPYLENE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SLOTTED DENSITY FIBREGLOSS WRAPS.

**ELECTRICAL NOTES:**

- VERIFY OWNER LOCATIONS W/ OWNER/ARCHITECT.
- SURFACE MDO. PARTS, & WALL SCANCES TO BE SELECTED BY OWNER.
- PROVIDE DRAINAGE PANS AT ALL BATHROOMS AND KITCHEN VENT DRAUGHT FANS TO EXTERIOR.
- VERIFY ELECT. READINGS, W/ OTHER TRADES.
- ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CSDE AND THE NATIONAL ELECTRICAL CODE.
- ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
- SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER SOURCE (BATTERIES OR TO THE RESIDUAL ALARM SYSTEM).
- TELEPHONE COMMUNICATION WIRING TO BE CATEGORY 5 CABLE BY AINT.
- PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- SMOKE DETECTOR
- HEAT DETECTOR
- CARBON MONOXIDE DETECTOR
- COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

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4 STORY TOWNHOUSE**  
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STAMFORD, CT

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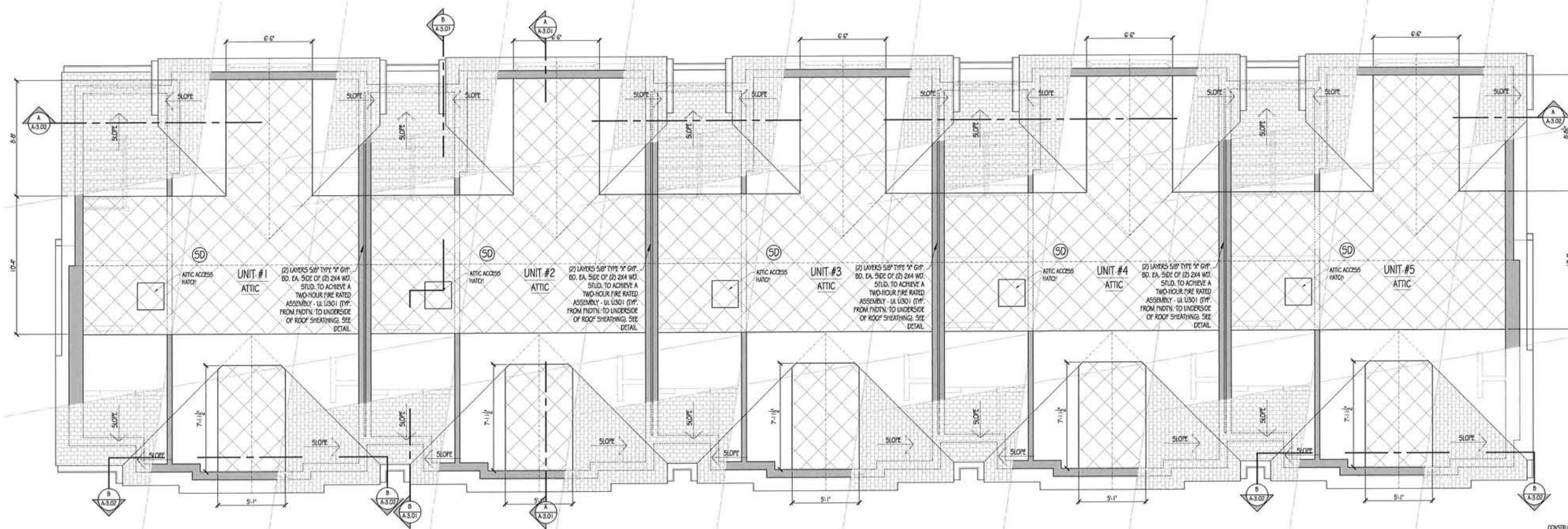
ARCHITECTS STAMP



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03.01.2021  
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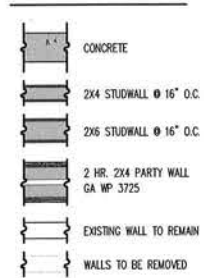
DRAWING TITLE:  
**FOURTH FLOOR  
PLAN**

DRAWING NO.:  
**A-1.04**

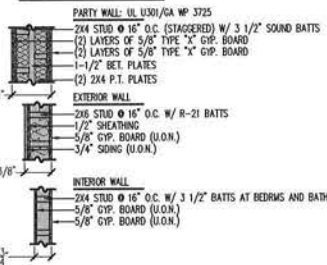


**ATTIC PLAN**  
SCALE : 1/4" = 1'-0"

**SYMBOLS**



**DIMENSIONING**



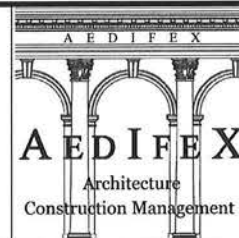
- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH DENSE STEEL TROWEL FINISH SUITABLE TO RECEIVE T&E OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BEDROOM PARTITIONS W/ 3" R2 SOUND ATTENUATION BLANKETS, CALLS AT TERMINATES, BACK TO BACK JUNCTION BOXES PROHIBITED.
  - INSULATE MED. ROOM DOOR, SOAKS, GASKETS, ETC.
  - ALL WORK SHALL CONFORM TO ALL STATE, LOCAL CODES AND ORDINANCES, AND ALL OTHER AREAS HAVING JURISDICTION.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
  - THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
  - THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
  - TUB & SHOWER AREAS TO RECEIVE SIP CONCRETEOUS BACKER BOARD, DAMP AREAS TO RECEIVE SIP WATER RESISTANT GWS.
  - HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72° INDOOR TEMPERATURE WITH 5° OF OUTDOOR TEMPERATURE AND 70° INDOOR TEMPERATURE WITH 5° OF OUTDOOR TEMPERATURE WITH MATCHING SET-BACK THERMOSTAT BY SHUREN OR APPROVED EQUAL, MIN. SIZE = 14". DUCT LAYOUT TO BE APPROVED BY ARCHITECT AND OWNER, NO SPPRITS WILL BE ALLOWED WITHOUT ARCHITECT / OWNER CONSENT.
  - ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE ILL. LARGED AND INSTALLED IN ACCORDANCE WITH SAME.
  - ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CSBC, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
  - PROVIDE SHUT-OFF VALVES AT ALL FIXTURES AND APPLIANCES.
  - INSULATE ALL HOT AND COLD WATER SUPPLY LINES W/ 1" HI-DENSITY POLYPROPYLENE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SLOATED HI-DENSITY FIBROGLASS WRAPS.

**ELECTRICAL NOTES:**

- VERIFY DIMMER LOCATIONS W/ OWNER/ARCHITECT.
  - SURFACE MTD. PARTS, 4 WALL SWITCHES TO BE SELECTED BY OWNER.
  - PROVIDE DRAUGHT FANS AT ALL BATHROOMS AND KITCHEN VENT DRAUGHT FANS TO EXTERIOR.
  - VERIFY ELECT. REQUISITS, W/ OTHER TRADES.
  - ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CSBC AND THE NATIONAL ELECTRICAL CODE.
  - ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
  - SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (SMOKE/HEAT) OR TO THE INTEGRAL ALARM SYSTEM.
  - TELEPHONE & COMMUNICATION WIRING TO BE CATEGORY 3 CABLE BY ATE.
  - PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- ☉ SMOKE DETECTOR  
 ☉ HEAT DETECTOR  
 ☉ CARBON MONOXIDE DETECTOR  
 ☉ COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
ARCHITECTURE & CONSTRUCTION MANAGEMENT  
340 NASH ROAD  
NORTH SALEM, NY 10560  
TEL : 914-485-1040



**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

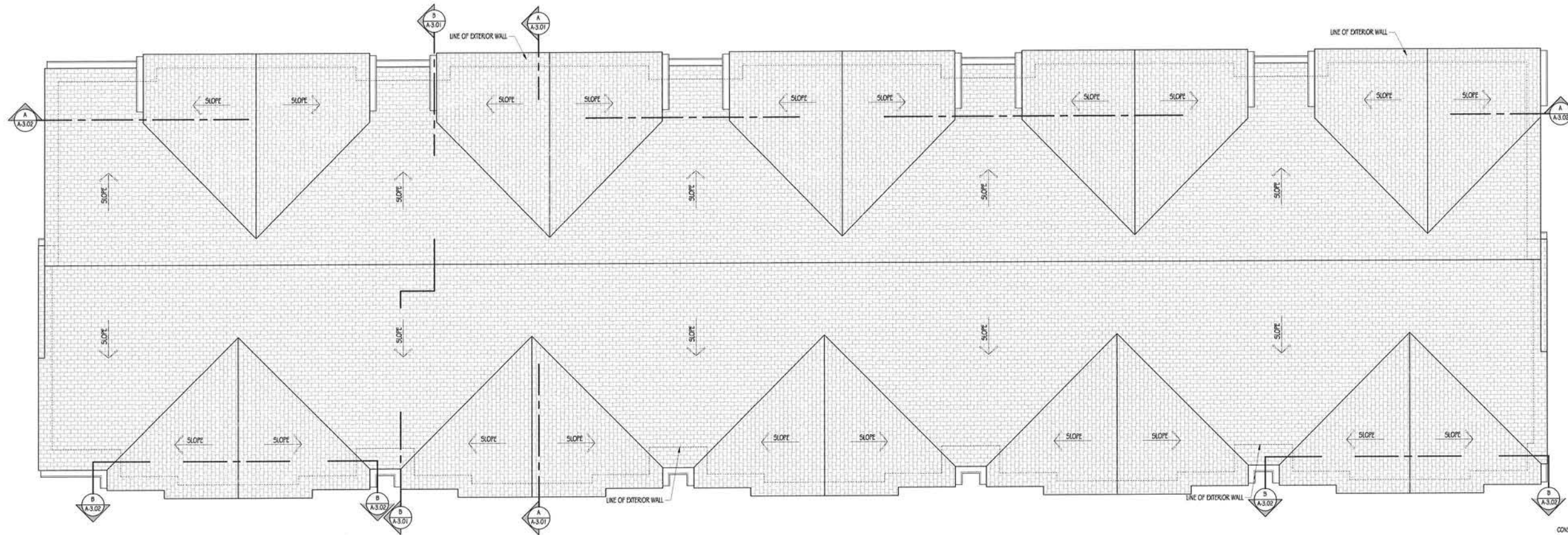
ARCHITECT'S STAMP



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03.01.2021  
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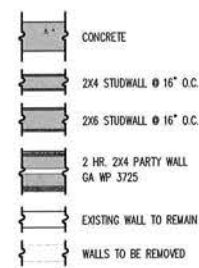
DRAWING TITLE:  
ATTIC PLAN

DRAWING NO.:  
**A-1.05**

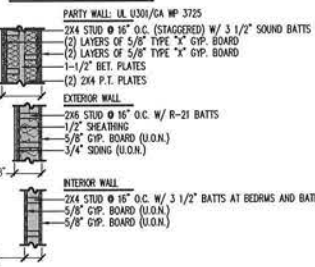


**ROOF PLAN**  
SCALE : 1/4" = 1'-0"

**SYMBOLS**



**DIMENSIONING**



- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH FINISH. TRIMS, FINISH SURFABLE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BROOM PARTITIONS W/ 3\"/>



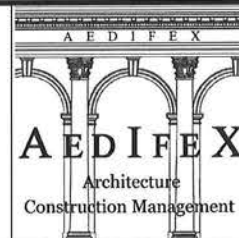
**ELECTRICAL NOTES:**

- VERIFY DIMMER LOCATIONS W/ OWNER/ARCHITECT.
- SURFACE MTL. PARTS, 4 WALL SWITCHES TO BE SELECTED BY OWNER.
- PROVIDE EXHAUST FANS AT ALL BATHROOMS AND KITCHEN VENT EXHAUST FANS TO EXTERIOR.
- VERIFY ELECT. REQS. W/ OTHER TRADES.
- ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CECSC AND THE NATIONAL ELECTRICAL CODE.
- ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICIAN, WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
- SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (BRIGHTNESS) OR TO THE INTEGRAL ALARM SYSTEM.
- TELEPHONE & COMMUNICATION WIRING TO BE CATEGORY 3 CABLE BY A/E.
- PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- SMOKE DETECTOR
- HEAT DETECTOR
- COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

**CLIENT**

239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
ARCHITECTURE & CONSTRUCTION MANAGEMENT  
340 NASH ROAD  
NORTH SALEM, NY 10560  
TEL : 914-485-1040



**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

**REVISIONS:**

**ARCHITECT'S STAMP**



ISSUE DATE:  
03.01.2021  
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**DRAWING TITLE:**  
ROOF PLAN

**DRAWING NO.:**  
A-1.06



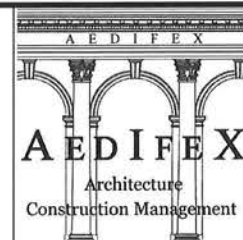


FRONT (EAST) ELEVATION  
SCALE : 1/4" = 1'-0"

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**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE  
237-239 HENRY STREET  
STAMFORD, CT**

**REVISIONS:**

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ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
**FRONT (EAST)  
ELEVATION**

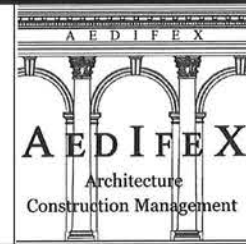
DRAWING NO.:  
**A-2.00**



REAR (WEST) ELEVATION  
SCALE : 1/4" = 1'-0"

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ASSOCIATES  
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STAMFORD, CT 06906

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ARCHITECTURE & CONSTRUCTION MANAGEMENT  
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NORTH SALEM, NY 10560  
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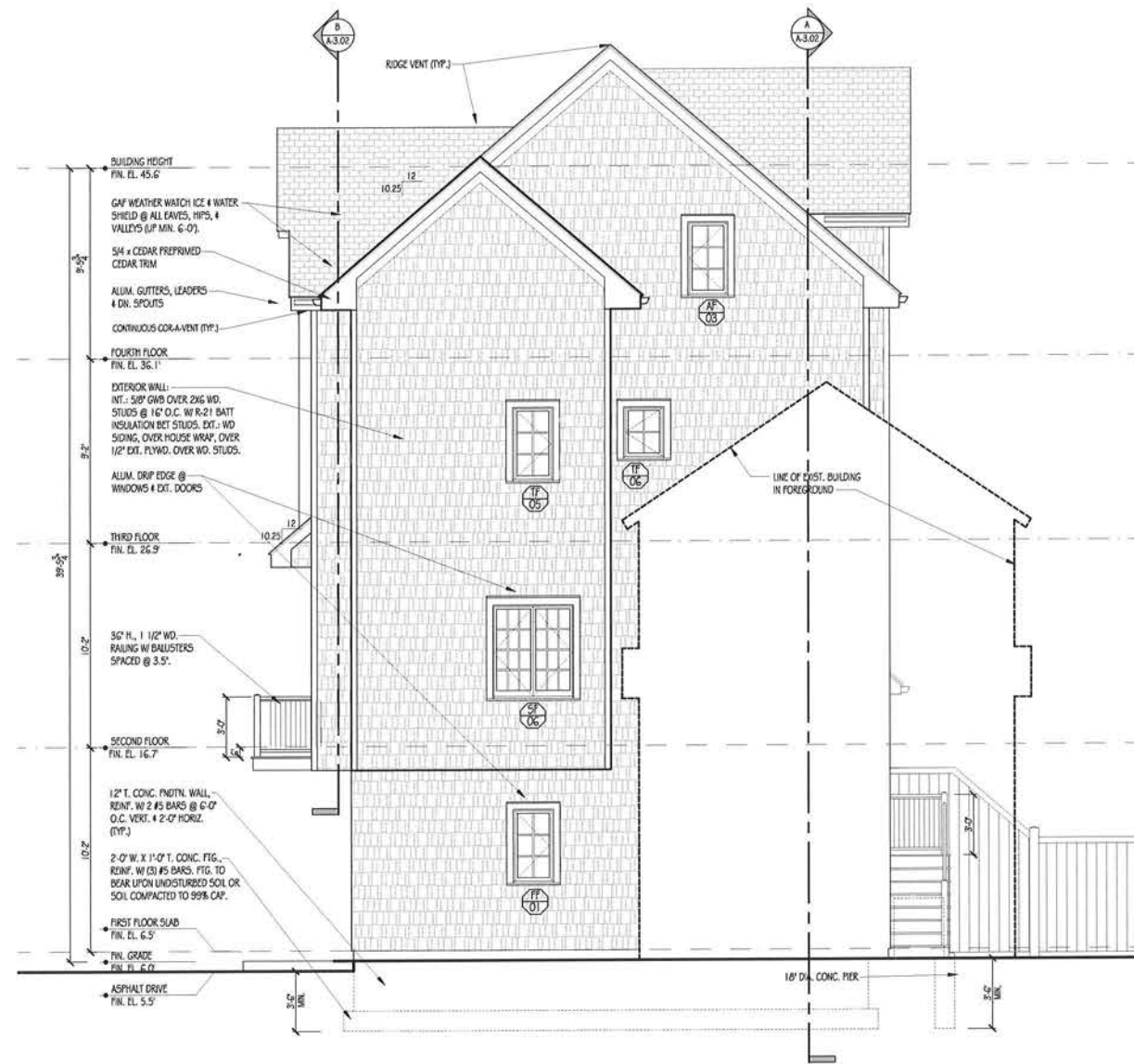
**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

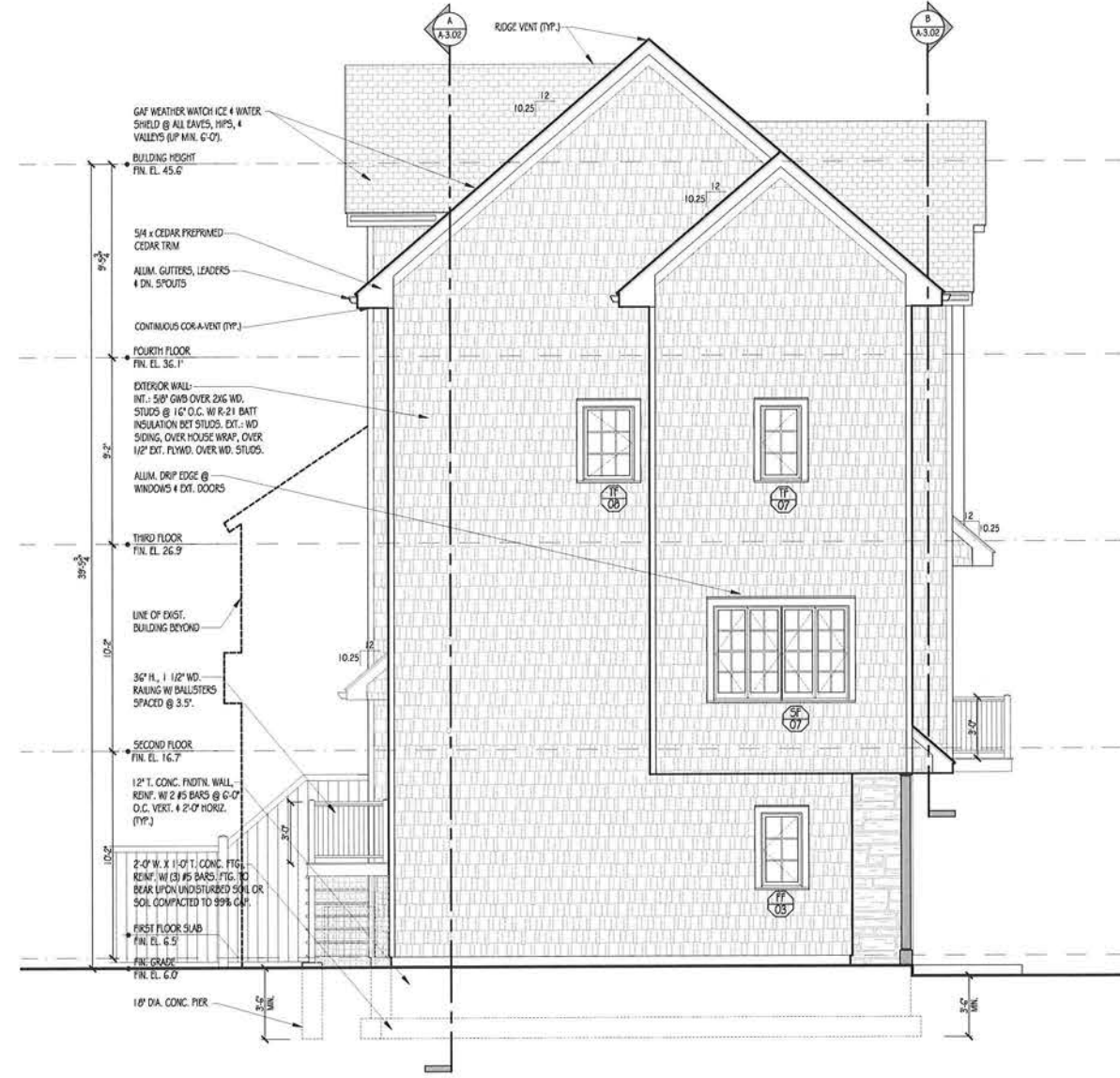
ARCHITECTS STAMP  
  
 ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
REAR (WEST)  
ELEVATION

DRAWING NO.:  
**A-2.01**



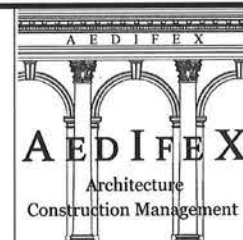
PROPOSED SIDE (NORTH) ELEVATION  
SCALE : 1/4" = 1'-0"



PROPOSED SIDE (SOUTH) ELEVATION  
SCALE : 1/4" = 1'-0"

CLIENT  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

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TEL : 914-485-1040



PROPOSED 5-UNIT  
4 STORY TOWNHOUSE  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

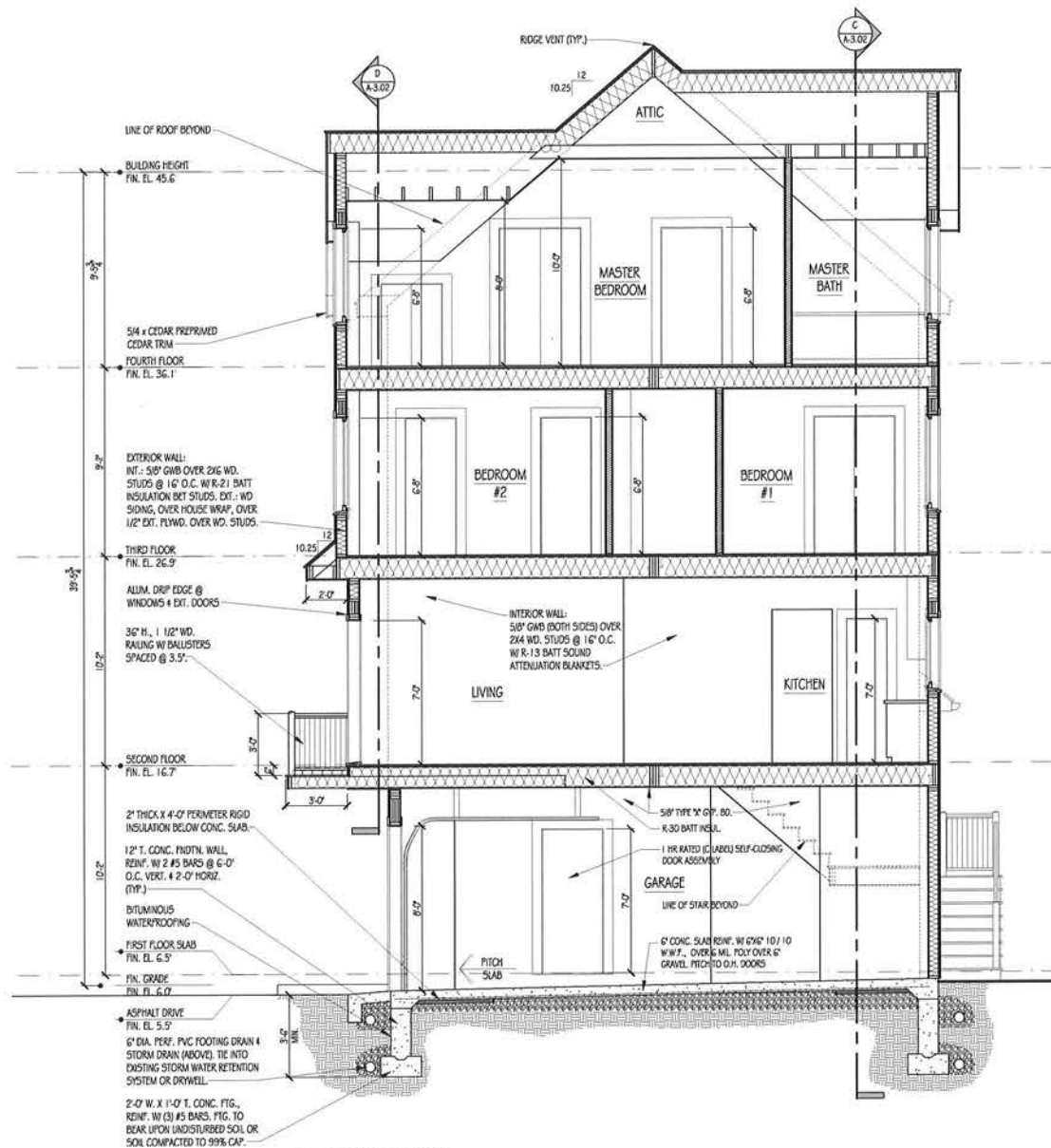
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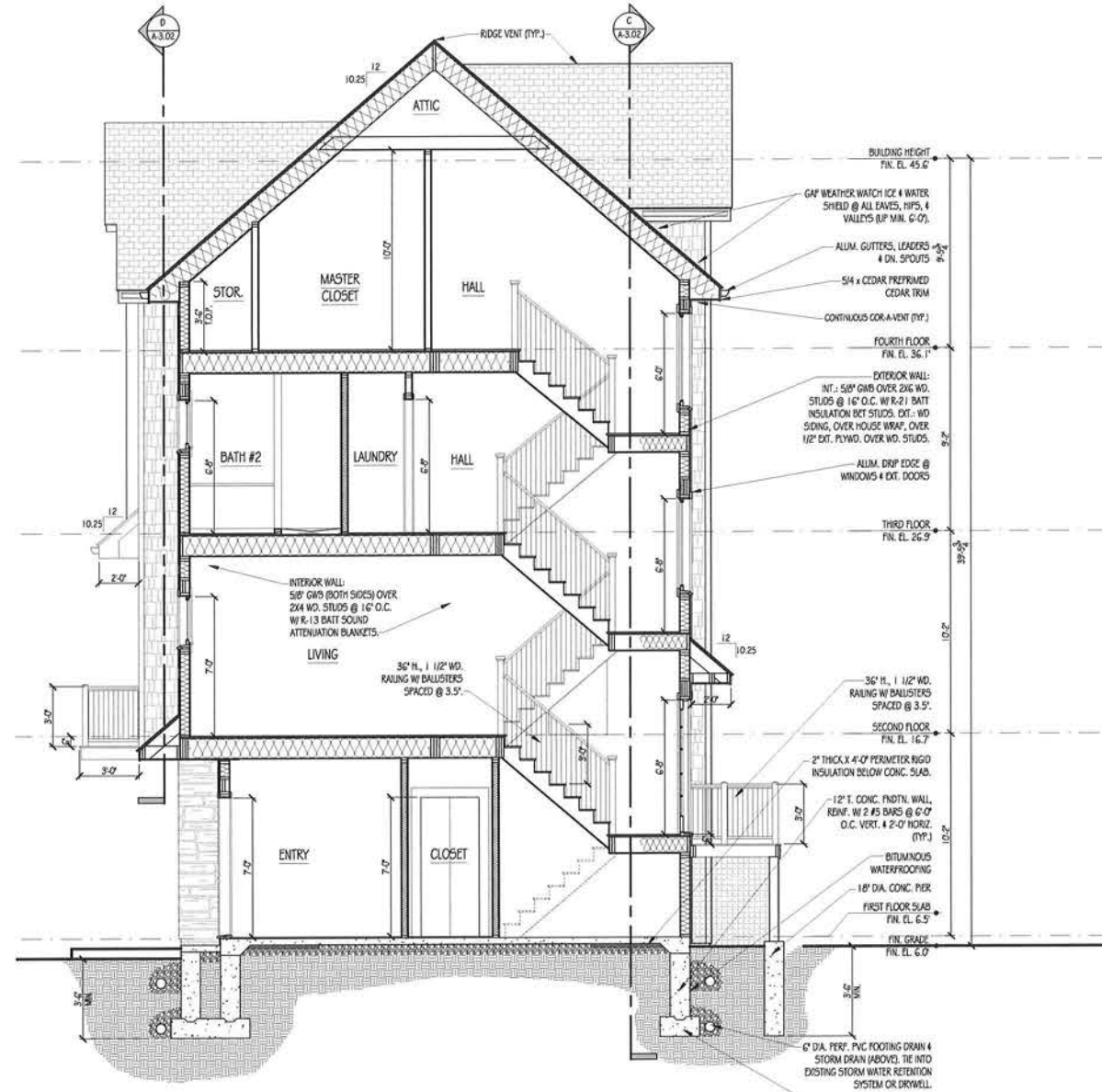
ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
NORTH & SOUTH  
ELEVATIONS

DRAWING NO.:  
**A-2.02**



**A** SECTION  
SCALE: 1/4" = 1'-0"



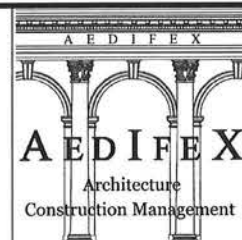
**B** SECTION @ STAIR  
SCALE: 1/4" = 1'-0"

HEADER SCHEDULE (U.N.O.)			
OPENING WIDTH	LINTEL SIZE	BEARING EACH END	No. OF KING STUDS
3'-6" OR LESS	2 - 2X8	1 1/2"	(2)2x
OVER 3'-6" THRU 5'-6"	2 - 2X10	1 1/2"	(3)2x
OVER 5'-6" THRU 7'-6"	2-1"x9 1/4" MICROLLAM LVL	3"	(3)2x
OVER 7'-6" THRU 9'-6"	2-1"x11 7/8" MICROLLAM LVL	3"	(4)2x
OVER 9'-6" THRU 12'-6"	3-1"x14" MICROLLAM LVL	4 1/2"	(4)2x

FOR USE IN FIRST AND SECOND FLOOR EXTERIOR WALLS ONLY

**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
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STAMFORD, CT 06906

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**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

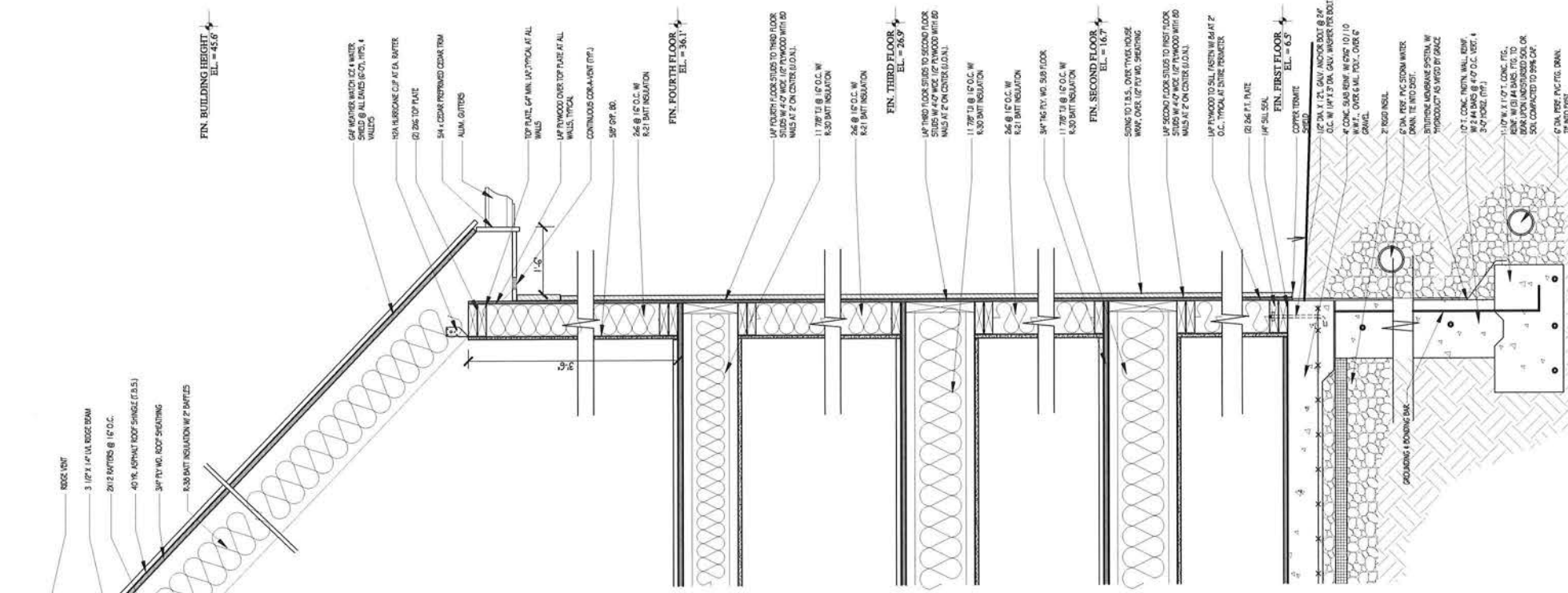
ARCHITECTS STAMP



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03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
**PROPOSED  
BUILDING  
SECTIONS**

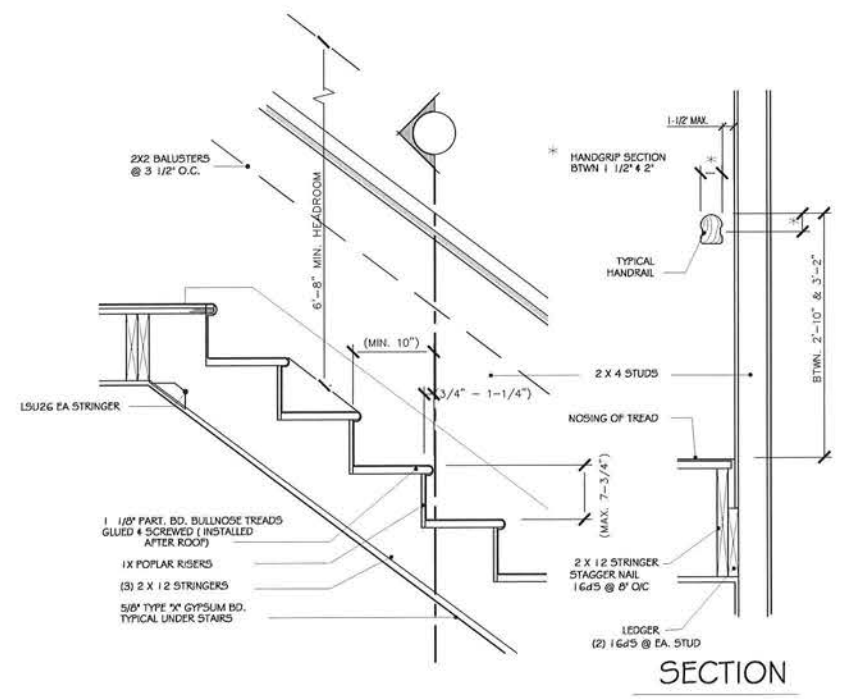
DRAWING NO.:  
**A-3.01**



TYPICAL WALL SECTION  
SCALE : 1" = 1'-0"

HEADER SCHEDULE (U.N.O.)			
OPENING WIDTH	LINTEL SIZE	BEARING EACH END	No. OF KING STUDS
3'-6" OR LESS	2 - 2X8	1 1/2"	(2)2x
OVER 3'-6" THRU 5'-6"	2 - 2X10	1 1/2"	(3)2x
OVER 5'-6" THRU 7'-6"	2-1["X9 1/4" MICROLAM LVL	3"	(3)2x
OVER 7'-6" THRU 9'-6"	2-1["X11 7/8" MICROLAM LVL	3"	(4)2x
OVER 9'-6" THRU 12'-6"	3-1["X14" MICROLAM LVL	4 1/2"	(4)2x

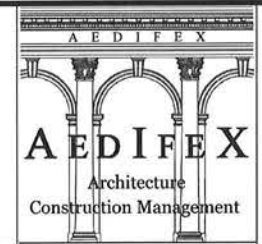
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TYPICAL STAIR DETAILS  
SCALE : N.T.S.

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STAMFORD, CT 06906

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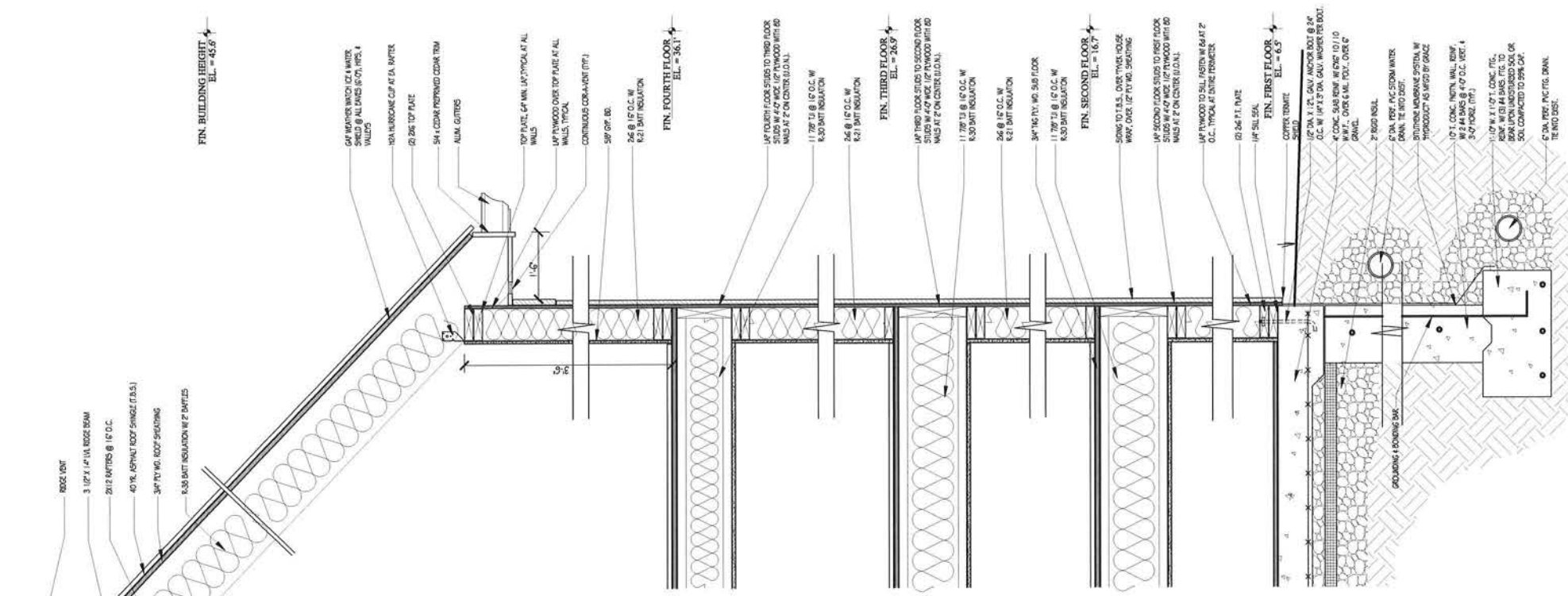
**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:



DRAWING TITLE:  
**TYPICAL  
WALL  
SECTION**

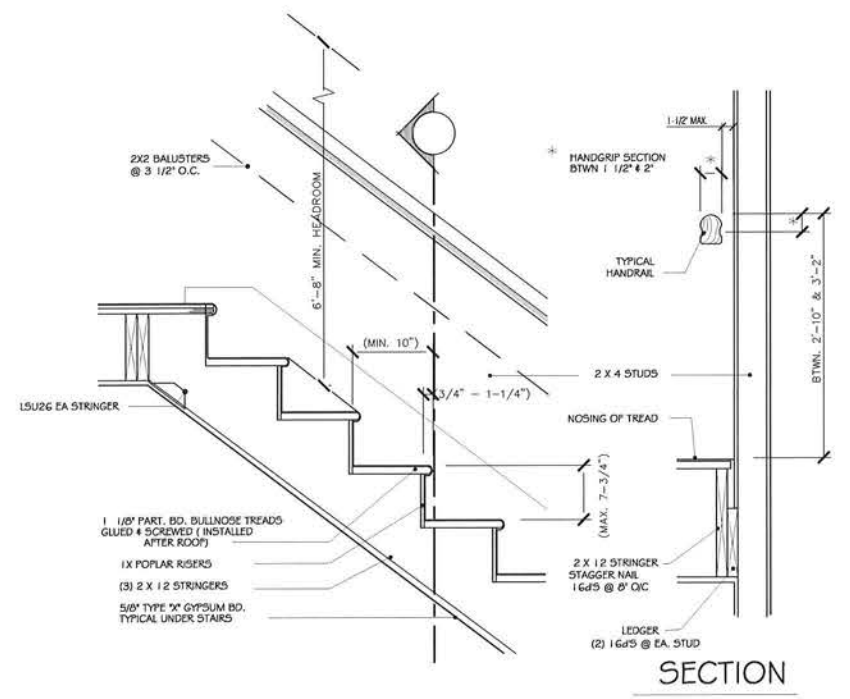
DRAWING NO.:  
**A-3.03**



TYPICAL WALL SECTION  
SCALE : 1" = 1'-0"

HEADER SCHEDULE (U.N.O.)			
OPENING WIDTH	LINTEL SIZE	BEARING EACH END	No. OF KING STUDS
3'-6" OR LESS	2 - 2XB	1 1/2"	(2)2x
OVER 3'-6" THRU 5'-6"	2 - 2X10	1 1/2"	(3)2x
OVER 5'-6" THRU 7'-6"	2-1["X9 1/4" MICROLLAM LVL	3"	(3)2x
OVER 7'-6" THRU 9'-6"	2-1["X11 7/8" MICROLLAM LVL	3"	(4)2x
OVER 9'-6" THRU 12'-6"	3-1["X14" MICROLLAM LVL	4 1/2"	(4)2x

FOR USE IN FIRST AND SECOND FLOOR EXTERIOR WALLS ONLY



TYPICAL STAIR DETAILS  
SCALE : N.T.S.

**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

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ARCHITECTURE & CONSTRUCTION MANAGEMENT  
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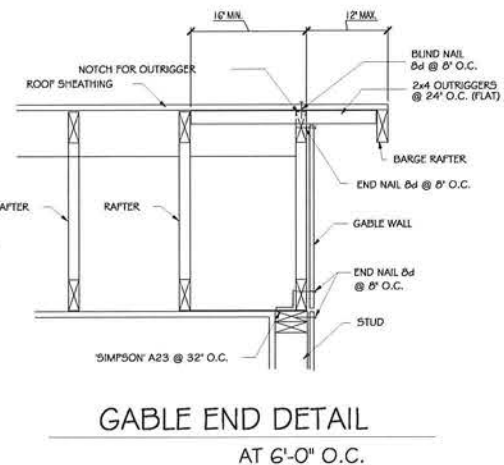
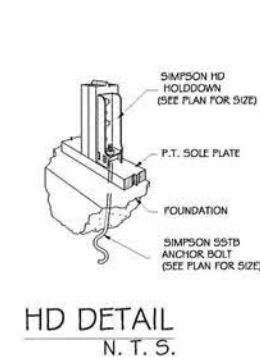
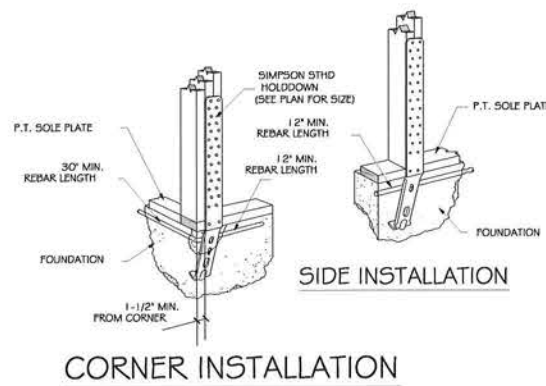
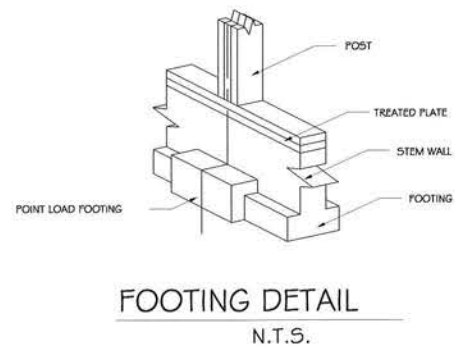
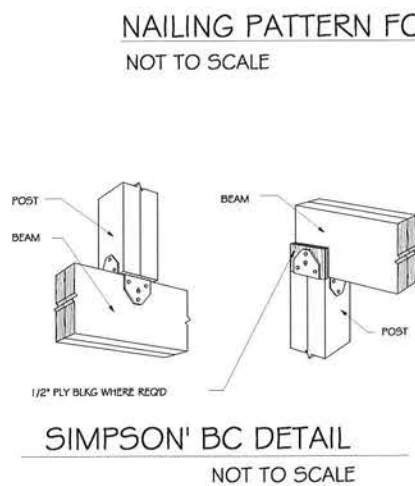
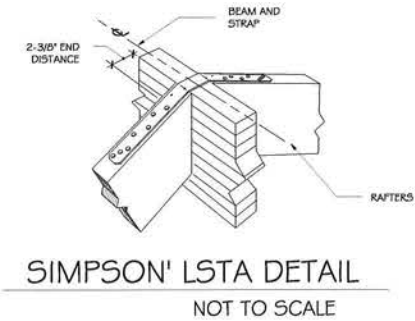
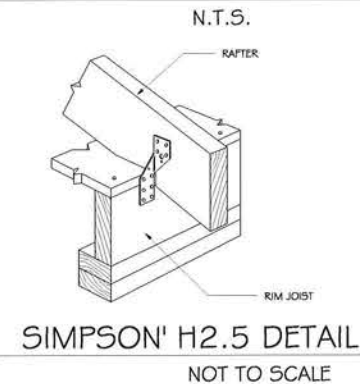
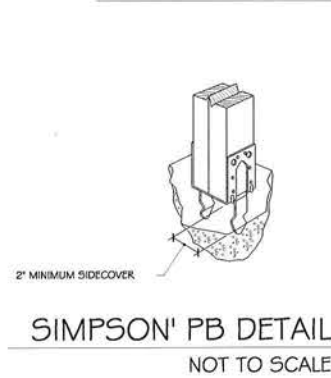
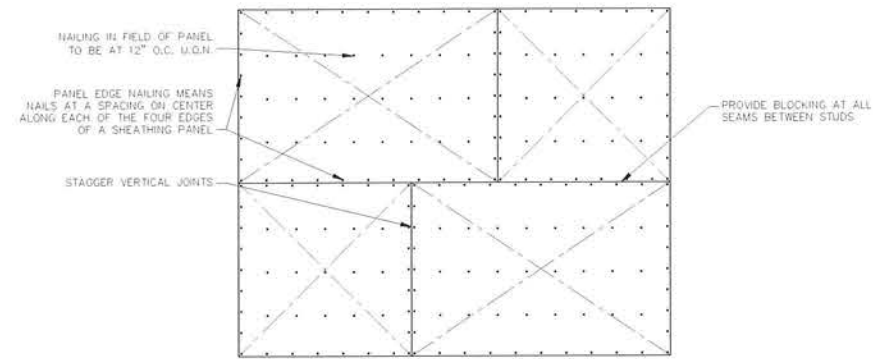
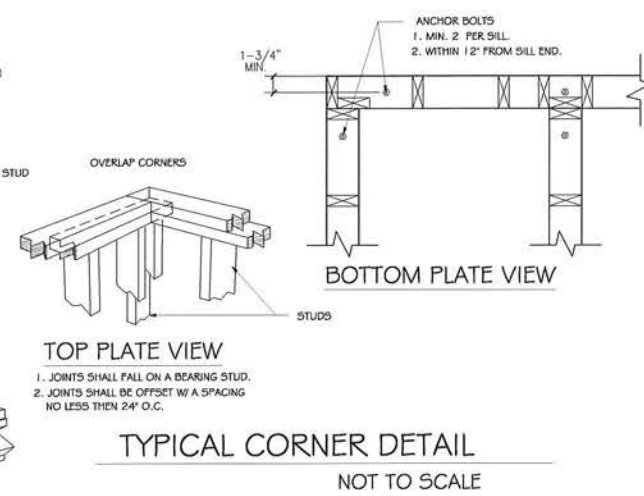
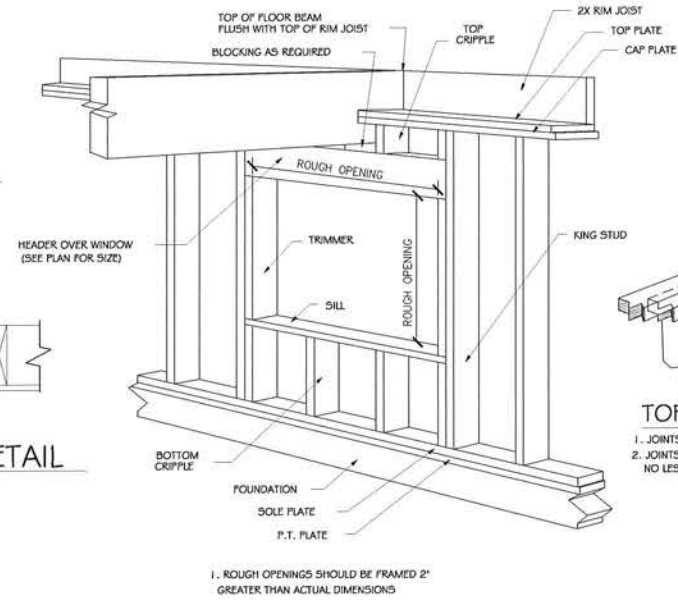
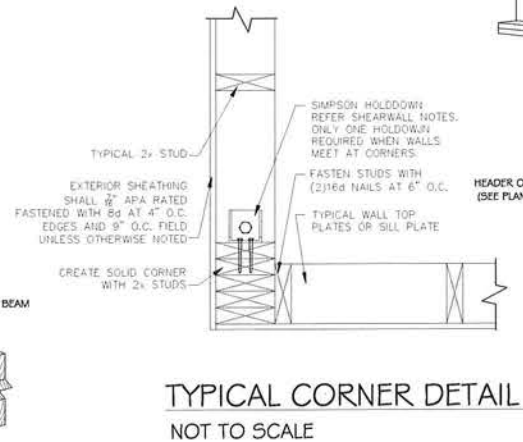
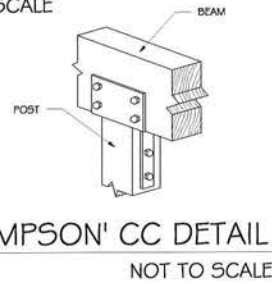
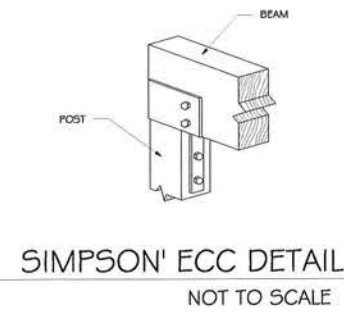
**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:



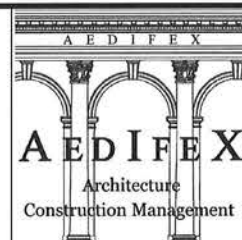
DRAWING TITLE:  
**TYPICAL  
WALL  
SECTION**

DRAWING NO.:  
**A-3.03**



**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
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340 NASH ROAD  
NORTH SALEM, NY 10560  
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**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

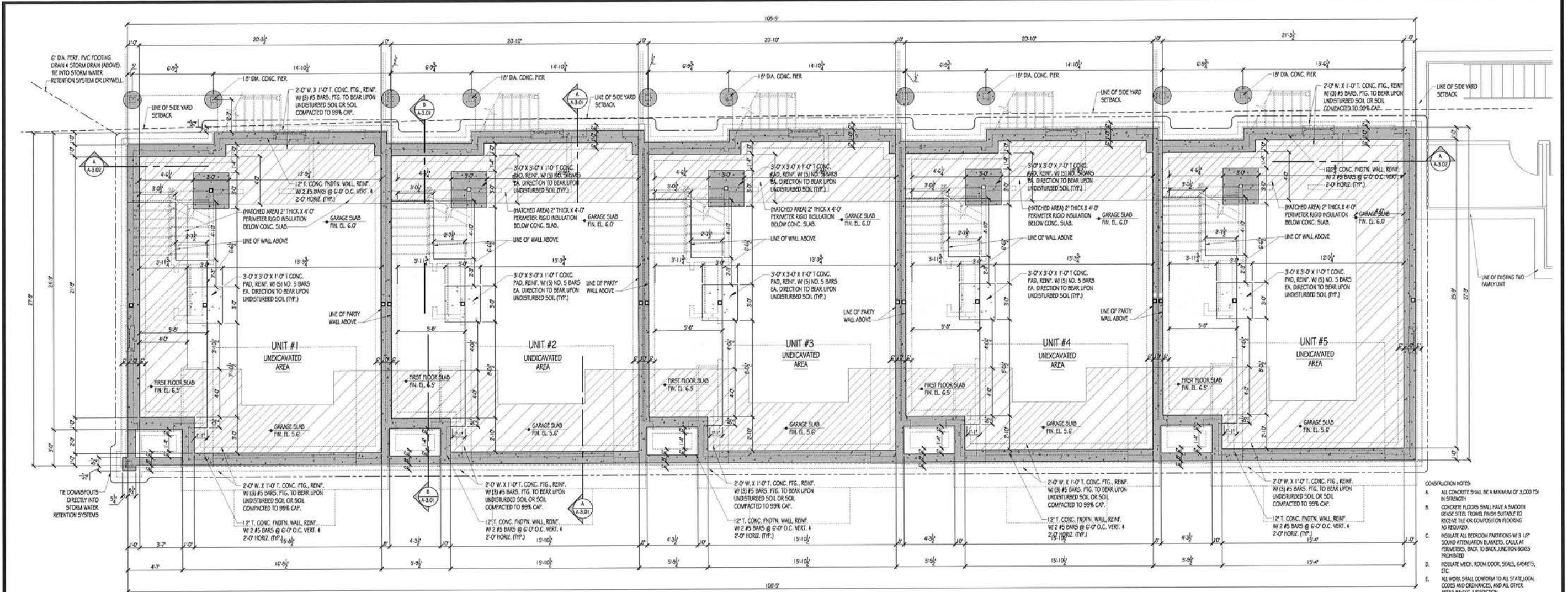
ARCHITECTS STAMP



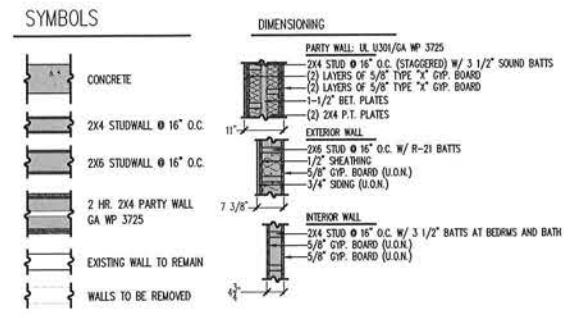
ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
**TYPICAL  
FRAMING  
DETAILS**

DRAWING NO.:  
**A-3.04**



**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



- CONSTRUCTION NOTES:**
- ALL CONCRETE SHALL BE A MINIMUM OF 3,000 PSI IN STRENGTH.
  - CONCRETE FLOORS SHALL HAVE A SMOOTH FINISH. FINISH SHALL BE SUITABLE TO RECEIVE TILE OR COMPOSITION FLOORING AS REQUIRED.
  - INSULATE ALL BEDROOM PARTITIONS WITH 3 1/2" SOUND ATTENUATION BLANKETS. CALL AT PERIMETERS, BACK TO BACK, JUNCTION BOXES PROHIBITED.
  - INSULATE MECH. ROOM DOOR, SEALS, GASKETS, ETC.
  - ALL WORK SHALL CONFORM TO ALL STATE, LOCAL CODES AND ORDINANCES, AND ALL OTHER AREAS HAVING JURISDICTION.
  - THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND FIELD CONDITIONS. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE CONTRACT WORK.
  - THE CONTRACTOR SHALL MAINTAIN CLEAN AND SAFE WORKING CONDITIONS AT ALL TIMES ON THE JOB SITE, AND WILL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEBRIS.
  - THE CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS ON THE JOB SITE DURING ALL PHASES OF CONSTRUCTION.
  - TUB & SHOWER AREAS TO RECEIVE SLP CONCRETEOUS BACKER BOARD, DRAIN AREAS TO RECEIVE SLP WATER RESISTANT GIB.
  - HEATING AND AIR CONDITIONING EQUIPMENT SHALL BE SIZED TO MAINTAIN 72°F INDOOR TEMPERATURE WITH 0°F OUTDOOR TEMPERATURE WITH MANUFACTURER'S SET BACK THERMOSTAT BY 'CARRIER' OR APPROVED EQUAL. MIN. SEER = 14. DUCT LAYOUT TO BE APPROVED BY ARCHITECT & OWNER. NO SPLITTERS WILL BE ALLOWED WITHOUT ARCHITECT'S & OWNER'S CONSENT.
  - ALL HEATING AND AIR CONDITIONING EQUIPMENT AND ACCESSORIES SHALL BE FULLY LABELED AND INSTALLED IN ACCORDANCE WITH SAME.
  - ALL PLUMBING SHALL BE DONE IN ACCORDANCE WITH CSBC, NATIONAL PLUMBING CODE AND ANY LOCAL PLUMBING CODES HAVING JURISDICTION.
  - PROVIDE SILENT OFF VALVES AT ALL FIXTURES AND APPLIANCES.
  - INSULATE ALL HOT AND COLD WATER SUPPLY LINES WITH 1" DENSITY POLYPROPYLENE FOAM INSULATION. INSULATE ALL HEATING LINES WITH SEALED IN-JOINT FIBERGLASS WRAPS.
- ELECTRICAL NOTES:**
- VERIFY OWNER LOCATIONS WITH OWNER/ARCHITECT.
  - SURFACE MTD. TYPES & WALL SWITCHES TO BE SELECTED BY OWNER.
  - PROVIDE EXHAUST FANS AT ALL BATHROOMS AND KITCHEN. VENT DRAUGHT FANS TO EXTERIOR.
  - VERIFY ELECT. RECONATS. W/ OTHER TRADES.
  - ELECTRICAL INSTALLATION, WIRING, AND EQUIPMENT SHALL CONFORM TO THE CTSDC AND THE NATIONAL ELECTRICAL CODE.
  - ALL WORK PERFORMED SHALL BE BY A LICENSED ELECTRICAL WHO SHALL BE RESPONSIBLE FOR OBTAINING PERMITS.
  - SMOKE DETECTING ALARM DEVICES SHALL BE SINGLE STATION TYPE, PHOTO-ELECTRIC, AND SHALL BE DIRECTLY CONNECTED TO A POWER CIRCUIT (UNSWITCHED) OR TO THE INTEGRAL ALARM SYSTEM.
  - TELEPHONE & COMMUNICATION WIRING TO BE CATEGORY 5 CABLE BY WIRE.
  - PROVIDE ELECTRICAL SERVICE & CONTROL WIRING FOR NEW CENTRAL AC UNITS.
- ☉ SMOKE DETECTOR  
 ☉ HEAT DETECTOR  
 ☉ CARBON MONOXIDE DETECTOR  
 ☉ COMBINATION SMOKE DETECTOR & CARBON MONOXIDE DETECTOR

**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
ARCHITECTURE & CONSTRUCTION MANAGEMENT  
340 NASH ROAD  
NORTH SALEM, NY 10560  
TEL : 914-485-1040



**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE**  
237-239 HENRY STREET  
STAMFORD, CT

REVISIONS:

ARCHITECTS STAMP

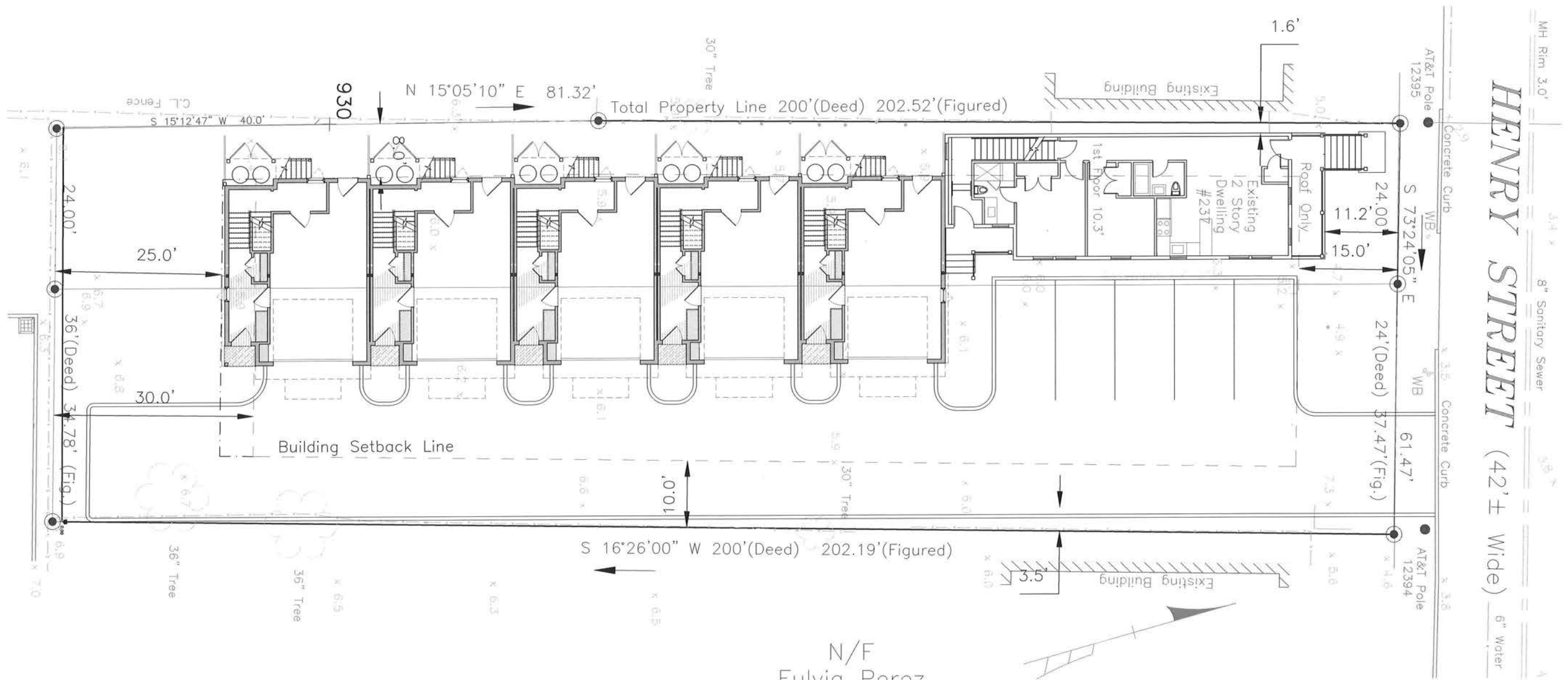


ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING TITLE:  
**FOUNDATION PLAN**

DRAWING NO.:  
**S-1.01**

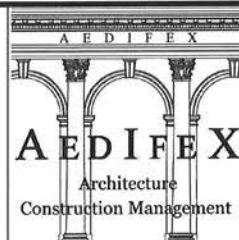




**PROPOSED SITE PLAN**  
SCALE : N.T.S.

**CLIENT**  
239-241 HENRY STREET  
ASSOCIATES  
43 JUDY LANE  
STAMFORD, CT 06906

**AEDIFEX**  
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NORTH SALEM, NY 10560  
TEL : 914-485-1040



**PROPOSED 5-UNIT  
4 STORY TOWNHOUSE  
237-239 HENRY STREET  
STAMFORD, CT**

REVISIONS:

ARCHITECTS STAMP

DRAWING TITLE:  
**PROPOSED  
SITE PLAN**

ISSUE DATE:  
03.01.2021  
ISSUE FOR PERMIT

DRAWING NO.:  
**SY-0.01**



237-241 Henry Street, Stamford, CT. Proposed development sketch - street view  
 Elena Kalman, AIA. Date: 3-1-21

**NOTE:**  
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Date	Issue

No.	Date	Revision

REPLICA OF  
 HISTORIC HOUSE  
 237-241 HENRY  
 STREET,  
 STAMFORD, CT

**ELENA  
 KALMAN  
 ARCHITECT**

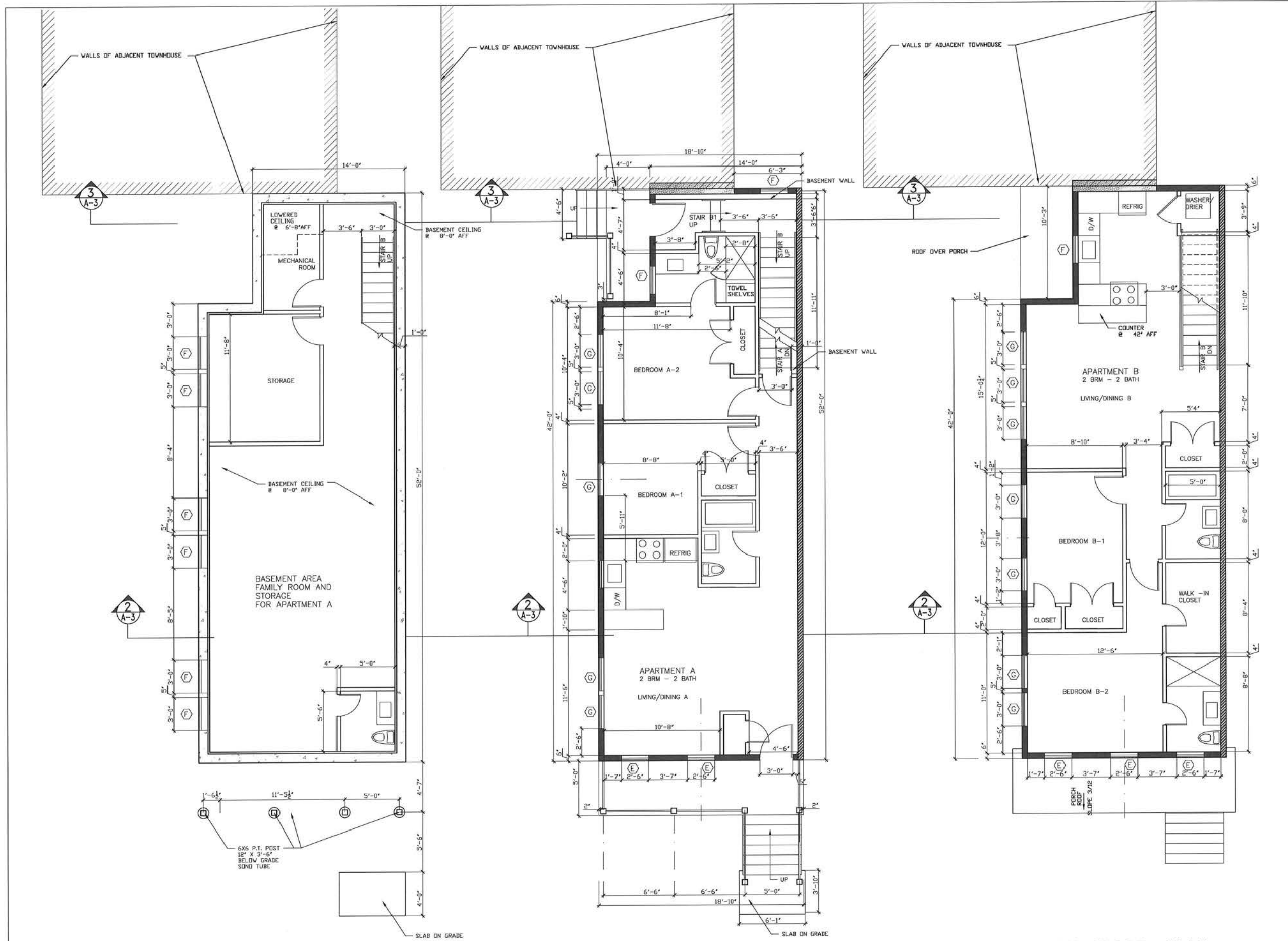
AIA

99 WILD DUCK ROAD  
 STAMFORD, CT. 06903  
 TEL. (203) 329-3074  
 FAX (203) 329-7149

DRAWING TITLE  
**DEVELOPMENT  
 SKETCH**

DRAWN BY \_\_\_\_\_ EK  
 CHECKED BY \_\_\_\_\_ EK  
 DATE \_\_\_\_\_ 3-1-21  
 SCALE \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_ HENRY ST.  
 DRAWING NUMBER \_\_\_\_\_

**A-1**



**WALL LEGEND**

	BASEMENT WALL	(7)
	UN-RATED EXTERIOR WALL	(2)
	1-HR RATED EXTERIOR WALL	(3)
	PARTY WALL BETWEEN BUILDINGS	(4)
	INTERIOR WALL	(1)

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Date	Issue

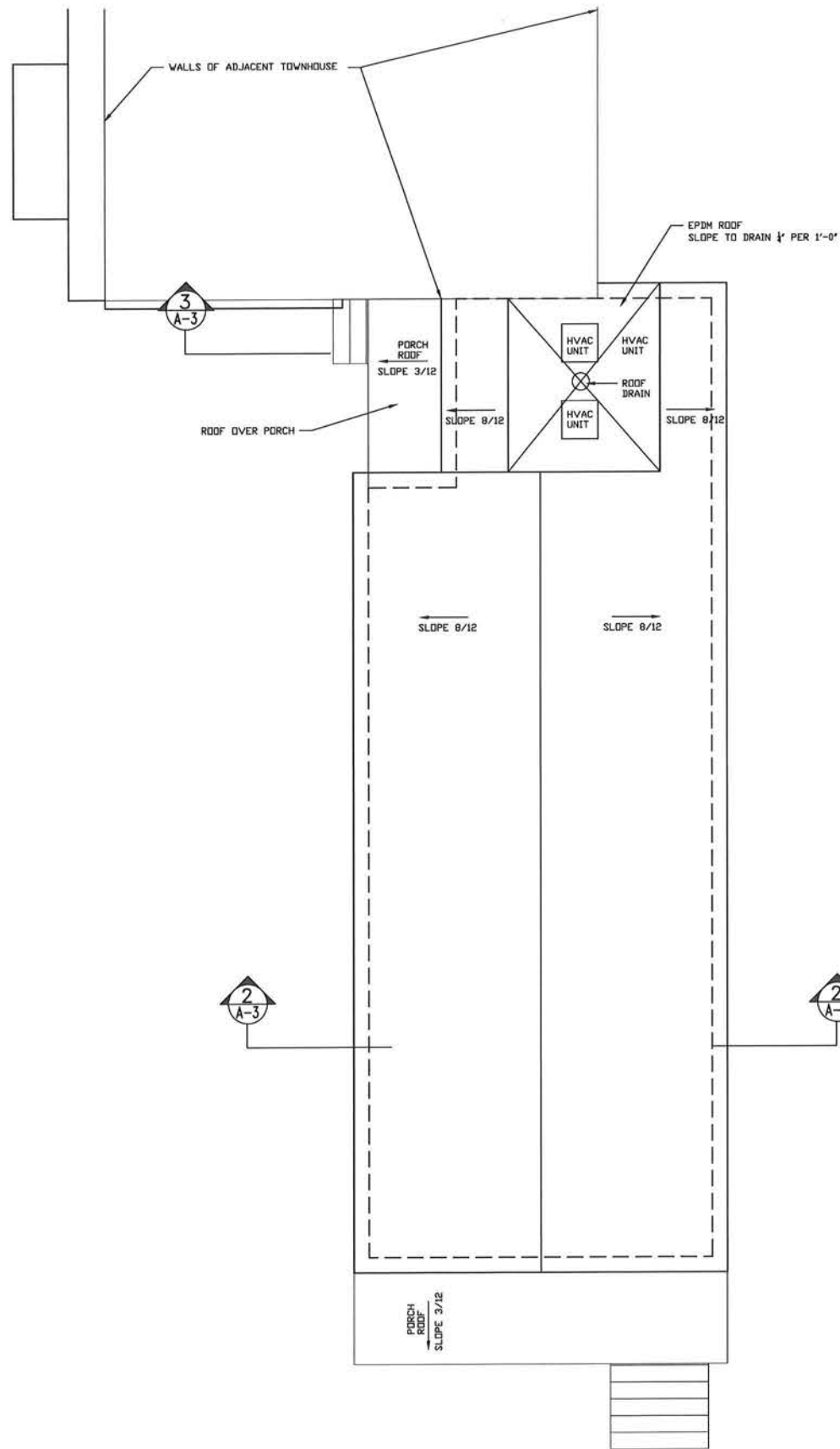
No.	Date	Revision

REPLICA OF HISTORIC HOUSE  
 237-241 HENRY STREET,  
 STAMFORD, CT

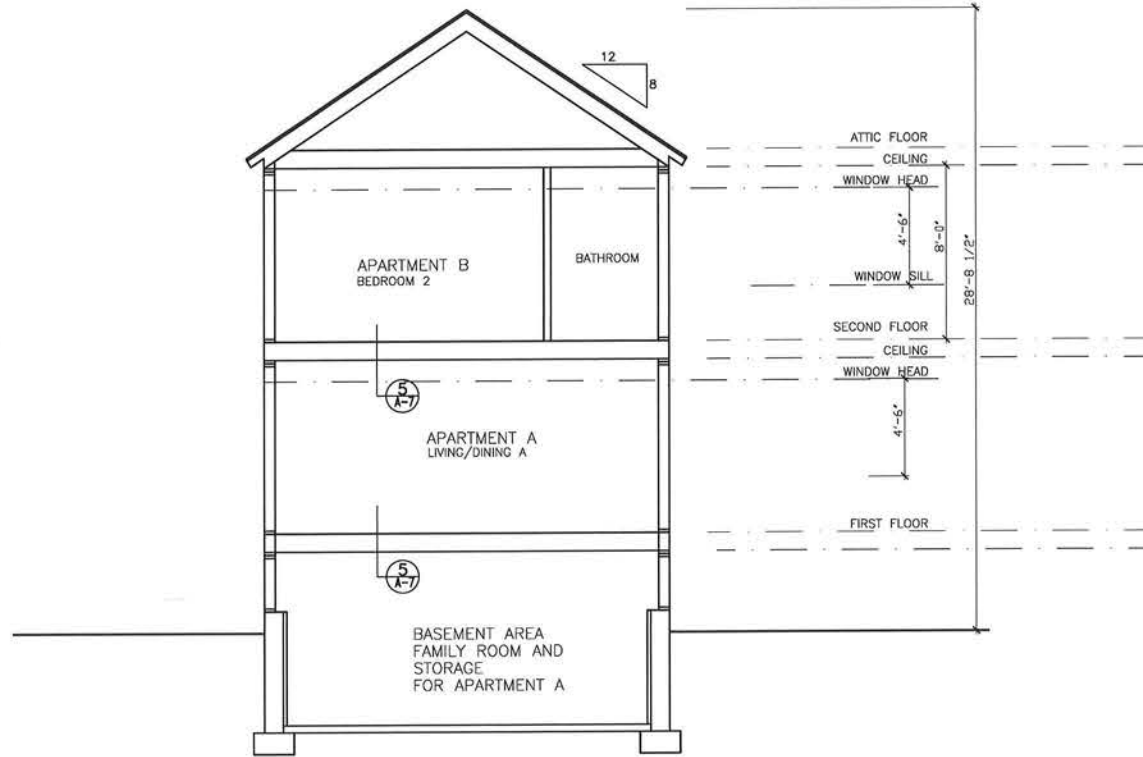
**EK**  
 ELENA KALMAN ARCHITECT  
 AIA  
 99 WILD DUCK ROAD  
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 TEL. (203) 329-3074  
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**DRAWING TITLE**  
 BASEMENT, FIRST AND SECOND FLOOR PLANS

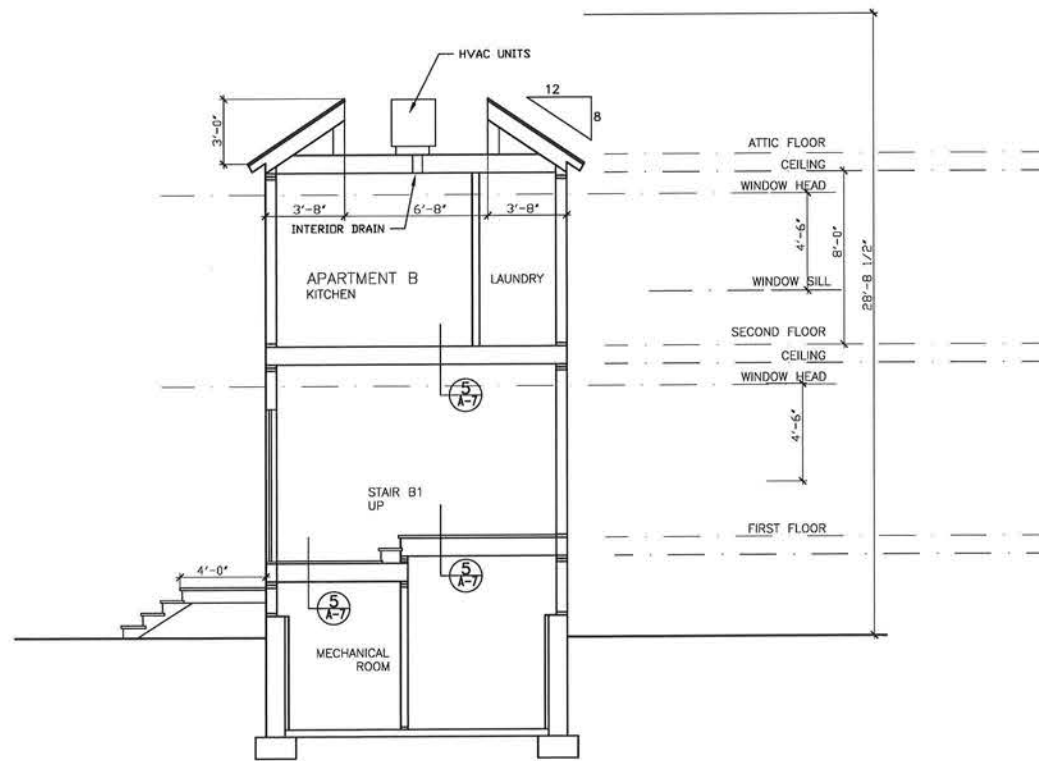
DRAWN BY	EK
CHECKED BY	EK
DATE	3-1-21
SCALE	1/4" = 1'-0"
PROJECT NAME	HENRY ST.
DRAWING NUMBER	



1 ROOF PLAN



2 CROSS SECTION



3 CROSS SECTION

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Date	Issue

No.	Date	Revision

REPLICA OF  
 HISTORIC HOUSE  
 237-241 HENRY  
 STREET,  
 STAMFORD, CT

**ELENA KALMAN ARCHITECT**  
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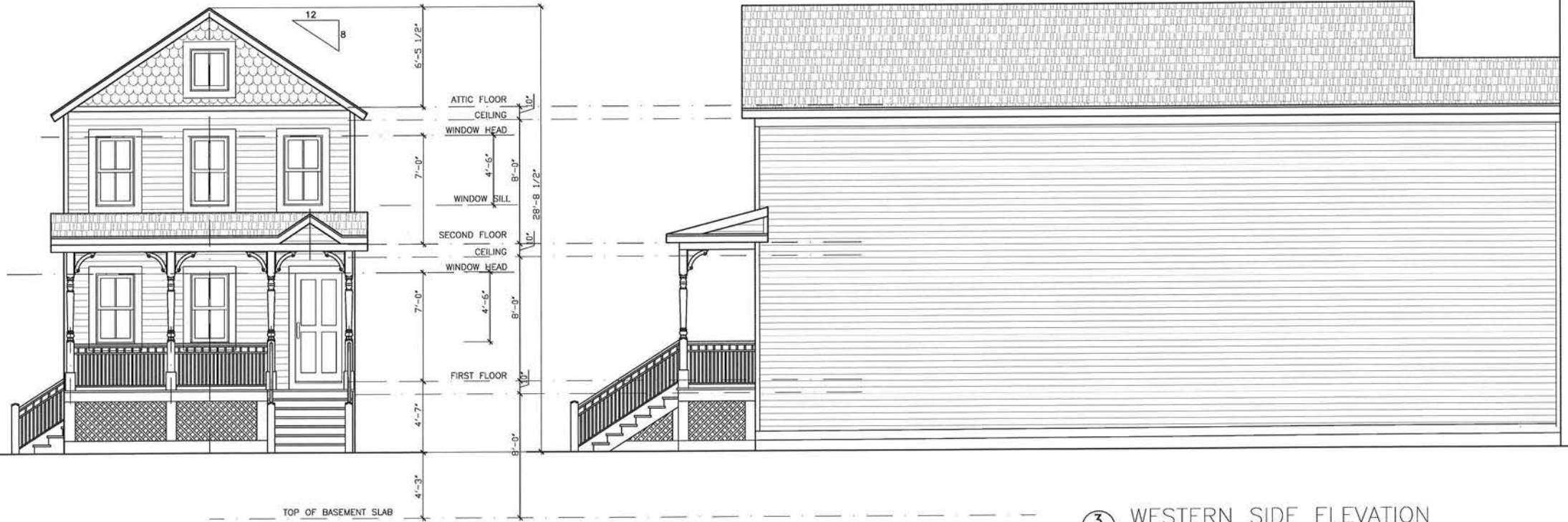
DRAWING TITLE  
**ROOF PLAN AND BUILDING SECTIONS**

DRAWN BY: EK  
 CHECKED BY: EK  
 DATE: 3-1-21  
 SCALE: 1/4" = 1'-0"  
 PROJECT NAME: HENRY ST.  
 DRAWING NUMBER:

**A-3**



1  
A-4 DRIVEWAY SIDE ELEVATION (EASTERN)



2  
A-4 HENRY STREET ELEVATION

3  
A-4 WESTERN SIDE ELEVATION

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Date	Issue

No.	Date	Revision

REPLICA OF HISTORIC HOUSE  
237-241 HENRY STREET,  
STAMFORD, CT

**ELENA KALMAN ARCHITECT**  
AIA

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DRAWING TITLE  
237 HENRY STREET ELEVATIONS

DRAWN BY	EK
CHECKED BY	EK
DATE	3-1-21
SCALE	1/4" = 1'-0"
PROJECT NAME	HENRY ST.
DRAWING NUMBER	

A-4



1 DRIVEWAY SIDE ELEVATION  
SCALE: 1/4" = 1'-0"



2 STREET FRONT ELEVATION  
SCALE: 1/4" = 1'-0"

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No.	Date	Revision

REPLICA OF HISTORIC HOUSE  
237-241 HENRY STREET,  
STAMFORD, CT

**ELENA KALMAN**  
ARCHITECT

AIA

99 WILD DUCK ROAD  
STAMFORD, CT 06903  
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DRAWING TITLE  
ELEVATIONS OF ENTIRE DEVELOPMENS

DRAWN BY: EK  
CHECKED BY: EK  
DATE: 3-1-21  
SCALE: as noted  
PROJECT NAME: HENRY ST.  
DRAWING NUMBER:

A-5

**INTERIOR MATERIALS: FINISH SCHEDULE:**

ROOM NAME:	CEILING	FLOORING	WALLS	DOOR CASINGS	DOORS/FRAMES	WINDOW JAMBS	WINDOW SILLS	BASE
ALL LIVING SPACES INCLUDING: LIVING ROOMS, DINING ROOMS, BEDROOMS, CORRIDORS AND CLOSETS	5/8"GWB PAINTED (2 COATS MIN.) LATEX PAINT, FLAT	COMPOSITE ENGINEERED WOOD 3/4" THICK PRE-FINISHED	5/8"GWB PAINTED WALL LATEX PAINT, FLAT	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	MAPLE WITH BULLNOSE EDGE POLYURETHANE FINISH	PAINTED WOOD MOLDING
KITCHEN	5/8"GWB PAINTED (2 COATS MIN.) LATEX PAINT, FLAT	PORCELAIN TILES 12"x12" or larger	5/8"GWB PAINTED WALL LATEX PAINT, FLAT	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	MAPLE WITH BULLNOSE EDGE POLYURETHANE FINISH	PAINTED WOOD MOLDING
BATHROOMS	5/8" WATER PROOF (GREEN) GWB PAINTED (2 COATS MIN.) LATEX PAINT, EGGSHELL	PORCELAIN TILES 12"x12" or larger INSIDE SHOWER: 2"x2" TILE SILE STONE THRESHOLD IN SHOWER AND AT ENTRY DOOR	WANDERBOARD SUBSTRATE UP TO 4'-0" AND INSIDE BATH OR SHOWER (3 WALLS) WHICH WILL HAVE PREFAB ENCLOSURE WALL TILE: PORCELAIN TILE WAINSCOT AT 4'-0" AFF. FULL HEIGHT TILE WALL IN SHOWER 1/2" WATER PROOF (GREEN) GWB PAINTED WALL ABOVE 4'-0" LATEX PAINT, EGGSHELL ( 2 COATS MIN.)	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED  TEMPERED GLASS SHOWER DOORS AND SLIDING ENCLOSURES AT TUBS	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	N/A	N/A
INTERIOR STAIRCASE WOOD STAIR WITH OAK STAINED TREADS AND PAINTED RISERS	5/8"GWB PAINTED (2 COATS MIN.) LATEX PAINT, FLAT	FIRST FLOOR ENTRY LANDING: PORCELAIN TILES 12"x12" OTHER LANDING: COMPOSITE ENGINEERED WOOD	5/8"GWB PAINTED WALL LATEX PAINT, FLAT	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	MAPLE WITH BULLNOSE EDGE POLYURETHANE FINISH	PAINTED WOOD MOLDING
LAUNDRY CLOSET	5/8"GWB PAINTED (2 COATS MIN.) LATEX PAINT, FLAT	PORCELAIN TILES 12"x12" PROVIDE PAN AND FLOOR DRAIN	5/8"GWB PAINTED WALL LATEX PAINT, FLAT	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED	N/A	N/A	N/A
BASEMENT SPACES	5/8"GWB PAINTED (2 COATS MIN.)	PORCELAIN TILES 12"x12" or larger	5/8"GWB PAINTED WALL LATEX PAINT, FLAT	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	ALL INTERIOR DOORS TO BE WOOD-FACED FINISHED	WOOD CASINGS PAINTED WITH TWO COATS OF LOW LUSTER WATER BASED PAINT BY BENJAMIN MOORE	MAPLE WITH BULLNOSE EDGE POLYURETHANE FINISH	PAINTED WOOD MOLDING

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Date	Issue

No.	Date	Revision

**WINDOW SCHEDULE:**

ALL WINDOWS TO BE BY MARVIN OR EQUAL WITH U-VALUE 0.30 OR LOWER, WOOD WITH ALUMINUM CLAD EXTERIOR. SIMULATED DIVIDED LIGHTS - WOOD MULLION INSIDE, ANODIZED ALUMINUM SPACE BETWEEN PANELES, WHITE OUTSIDE MULLION. WINDOW INTERIOR AND EXTERIOR COLOR: WHITE, INSECT SCREENS, TWO-OVER-TWO LIGHTS. CONTRACTOR TO PRESENT WINDOW, DOOR AND HARDWARE SAMPLES AND CATALOG CUTS.

WINDOW SYMBOL AND ELEVATION	DESCRIPTION, DIMENSIONS, LIGHT AND AIR
	DOUBLE HUNG WINDOW "E" 2'-6" X 4'-6" WINDOW LIGHT AREA: 2.5 X 4.5 = 11.25 S.F. VENTILATION AREA: 2.5 X 2.5 = 6.25 S.F.
	DOUBLE HUNG WINDOW "G" 3'-0" X 5'-0" MEETS EGRESS CODE WINDOW LIGHT AREA: 3 X 5 = 15 S.F. VENTILATION AREA: 3 X 2.5 = 7.5 S.F.
	2'-6/2'-6 CASEMENT WINDOW COORDINATE HINGE LOCATION TO OPEN FROM MIDDLE OF ROOM. WINDOW LIGHT AREA: 2.5 X 2.5 = 6.25 S.F. VENTILATION AREA: 2.5 X 2.5 = 6.25 S.F.
	3'-0/2'-0 AWNING WINDOW - BASEMENT ONLY

**DOOR AND HARDWARE SCHEDULE:**

ALL WOOD INTERIOR DOORS TO BE FLUSH TYPE DESIGN, PAINT GRADE. ALL DOOR SWING DIRECTIONS AND DIMENSIONS ARE INDICATED ON PLANS. CONTRACTOR TO VERIFY NUMBER OF DOORS OF EACH TYPE ON SITE AND TO COORDINATE EXACT HARDWARE SPECS WITH SCHLEG TECHNICAL SALES REPRESENTATIVE AND THE ARCHITECT.

DOOR			HARDWARE		
DOOR TYPE	LOCATION	DOOR DESCRIPTION	ITEM CODE	ITEM DESCRIPTION	QTY PER DOOR
Ⓐ	ENTRANCE DOOR	DOOR "A" INSWING STEEL ENTRANCE DOOR EMBOSSED SERIES R-5 MINIMUM, WITH WEATHER STRIPPING, SELF CLOSING. 3'-0" X 6'-8", 2 PANEL DESIGN, H/C ACCESSIBLE THRESHOLD.	SOLOCK 4734000	SCHLAGE JUPITER S51 LEVER ENTRY 619	1
				SCHLAGE SINGLE CYLINDER DEADBOLT SATIN NICKEL	1
			SOHDWR 4000150	IVES DOOR VIEWER	1
				BALDWIN 4000-150 DOME DOOR STOP	1
Ⓑ	BEDROOM & BEDROOM - PRIVACY	SOLID CORE WOOD INTERIOR BEDROOM DOOR UNRATED DIMENSIONS PER PLAN	SOLOCK 4000150	SCHLAGE F10 JAZZ-619 PRIVACY	1
				BALDWIN 4000-150 DOME DOOR STOP	1
Ⓒ	CLOSET SINGLE DOOR	SOLID CORE WOOD INTERIOR STORAGE/CLOSET DOOR UNRATED DIMENSIONS PER PLAN	SOLOCK 4000150	SCHLAGE F10 JAZZ-619 PASSAGE	1
				BALDWIN 4000-150 DOME DOOR STOP	1
Ⓓ	CLOSET DOUBLE DOOR	DOUBLE HOLLOW CORE WOOD CLOSET DOOR UNRATED DIMENSIONS PER PLAN	SOLOCK 9873746	SCHLAGE F170 JAZZ DUMMY 619	2
			0461510	SCHLAGE ACCENT DUMMY RH SATIN NICKEL	1
			4000150	BALDWIN 0465-150 EDGE PULL	2
				BALDWIN 4000-150 DOME DOOR STOP	1

REPLICA OF  
HISTORIC HOUSE  
237-241 HENRY  
STREET,  
STAMFORD, CT



DRAWING TITLE  
**SCHEDULES**

DRAWN BY: EK  
CHECKED BY: EK  
DATE: 3-1-21  
SCALE: 1/4" = 1'-0"  
PROJECT NAME: HENRY ST.  
DRAWING NUMBER:

CLIENT:

PACIFIC HOUSE  
597 PACIFIC STREET  
STAMFORD, CT 06902

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Date	Issue	
No.	Date	Revision

REPLICA OF  
HISTORIC HOUSE  
237-241 HENRY  
STREET,  
STAMFORD, CT

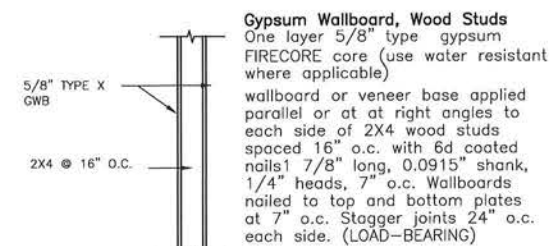


99 WILD DUCK ROAD  
STAMFORD, CT. 06903  
TEL. (203) 328-3074  
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DRAWING TITLE  
SECTION DETAILS

DRAWN BY	EK
CHECKED BY	EK
DATE	2-18-21
SCALE	1/4" = 1'-0"
PROJECT NAME	HENRY ST.
DRAWING NUMBER	

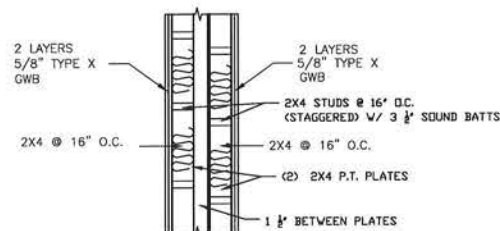
A-7



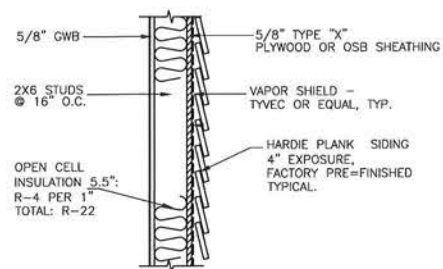
Thickness: 4 3/4"  
Approx. Weight: 7 psf

NOTE: ALL INTERIOR WALLS SHALL BE CONSTRUCTED AS 1-HR.

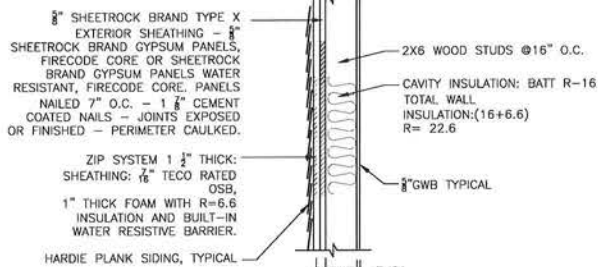
1-HR RATED WALL - UL Des 305  
3/4"=1'-0"



UL U301/GA WP 3725  
PARTY WALL  
3/4"=1'-0"

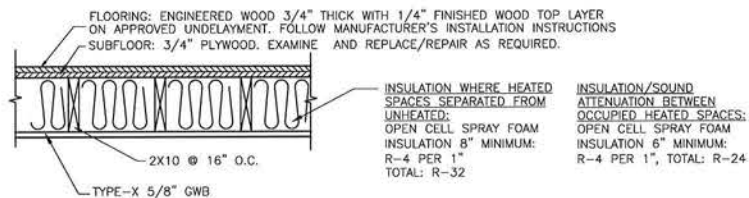


2 EXTERIOR WALL  
3/4"=1'-0"



NOTE: THIS DESIGN IS APPLICABLE TO WALL LESS THEN 5' FROM PROPERTY LINE

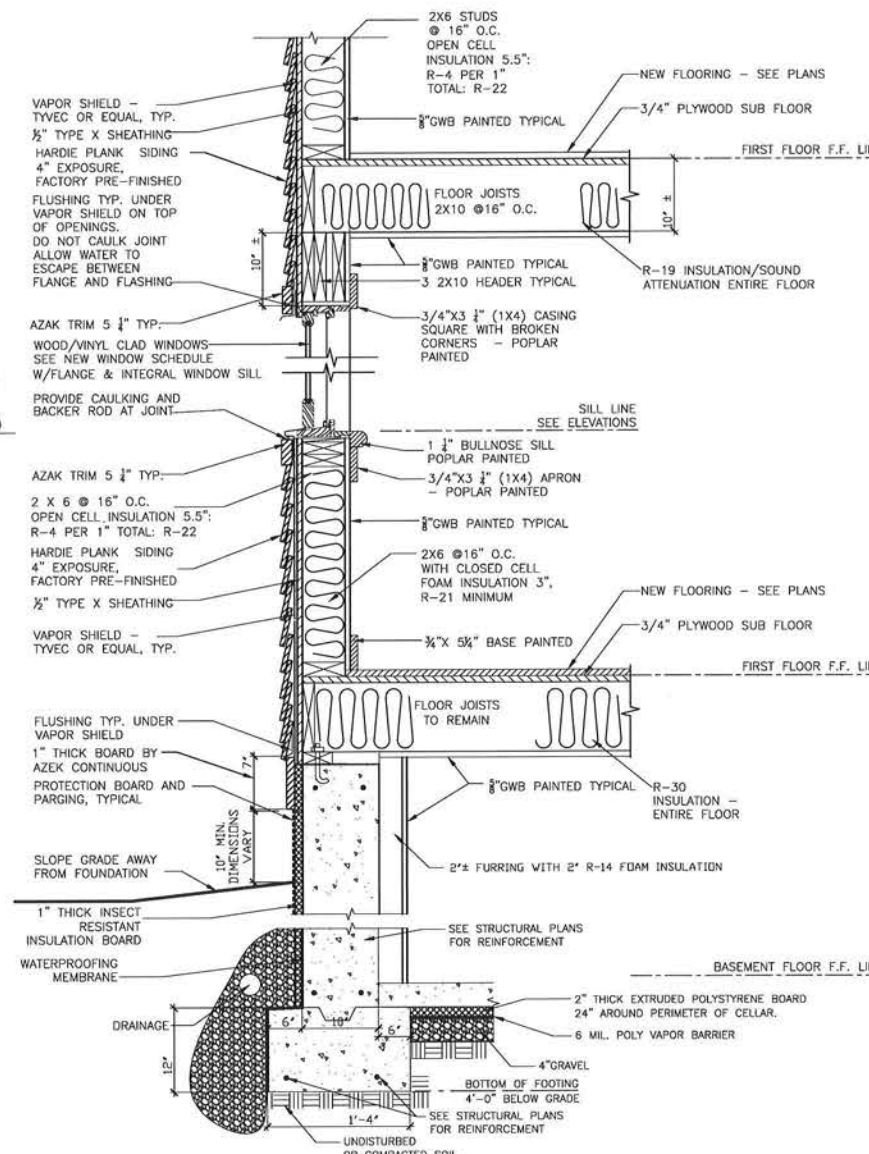
3 EXTERIOR WALL: 1-HR FIRE RATED: UL Des U305  
3/4"=1'-0"



Wood Joists, Gypsum Wallboard

1" nom. wood sub and finish floor, 5/8" SHEETROCK Brand Gypsum Panels, FIRECORE Core attached at right angles to 2X10 minimum wood joists @16" o.c. with 6d coated nails 1 7/8" long, 0.0915" shank, 1/4" heads, 6" o.c., -joints, fin.

UL DES.L501  
1 HOUR FLOOR - CEILING  
3/4"=1'-0"



7 TYPICAL FOUNDATION AND WALL SECTION AT WINDOW  
1"=1'-0"

NOTE 1: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CEDAR SIDING AND TRIM. COORDINATE NAILS LENGTH TO ASSURE THAT SIDING IS NAILED TO STUDS. GALVANIZED NAILS ONLY. USE TYVEC OR EQUAL VAPOR BARRIER AND PRO-FLUSHING AT ALL OPENING. INSTALL PAINT ALL CUT EDGES OF SIDING AND TRIM.

NOTE 2: FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR PELLA WINDOWS.

SHEETROCK & SHEATHING NOTES:

- ALL INTERIOR WALLS AND CEILINGS TO BE FACED WITH WITH: 5/8" SHEETROCK BRAND GYPSUM PANELS, FIRECORE CORE.
- ROOF SHEATHING TO BE 3/4" MIN. EXTERIOR TYPE PLYWOOD OR EXTERIOR QUALITY GYPSUM PRODUCT.
- WALL SHEATHING TO BE 5/8" MIN. EXTERIOR TYPE PLYWOOD OR EXTERIOR QUALITY GYPSUM PRODUCT.

INSULATION NOTES:

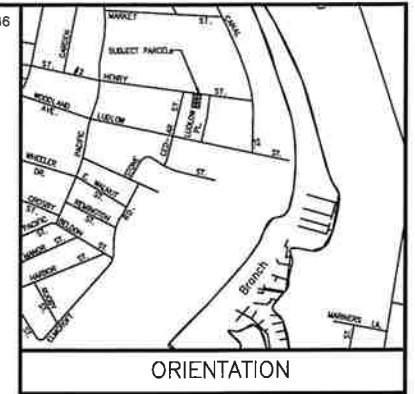
- WALL INSULATION TO BE R-21 MINIMUM.
- ROOF/ATTIC INSULATION TO BE R-40 MINIMUM.
- CELLAR CEILING INSULATION TO BE R-21 MINIMUM.
- FLOOR RIM JOISTS AT EXTERIOR WALL TO BE R-21 INSULATION MINIMUM.
- WINDOWS TO BE U-VALUE .030 OR LOWER.
- EXTERIOR DOORS TO BE R-5 MINIMUM, FULLY WETHERSTRIPED.
- ALL CAPS, PENETRATIONS, SEPARATIONS FROM FRAMING, PLUMBING, HVAC WORK, ETC., SHALL BE SEALED WITH FOAM, CALK TAPE MASTIC OR ANY OTHER METHOD PRESENTED BY CONTRACTOR AND APPROVED BY THE ARCHITECT.



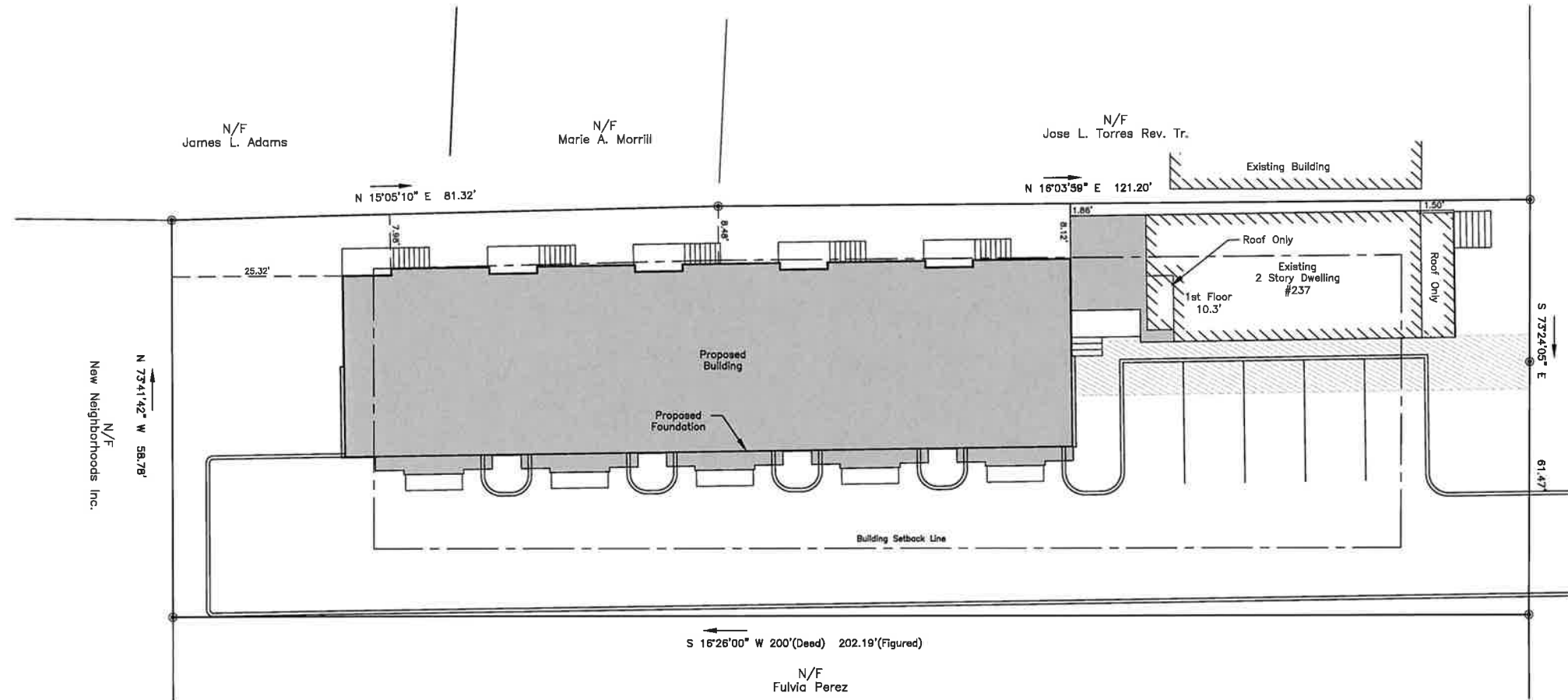
**R-MF ZONE BUILDING SETBACK REQUIREMENTS**

Front Street Line Setback	15'
Center Line Of Street Setback	40'
Rear Yard Setback	30'
Lot Area 5000 - 20000sf	Side Yard Setback .8' W/ Total Of .18'
Lot Area At Least 20000sf	Each Side Yard Setback At Least Equal To 1/2 The Height Of The Building And In No Case Less Than Ten Feet (15')
Max. Building Coverage	30% Of Lot Area
Max. Building Coverage	35% <sup>(1)</sup> Of Lot Area

Zoning Information is Subject To The Review And Approval By The Appropriate Governing Authority

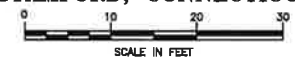


Property Lines Not Staked By Contractual Agreement  
Soil Types Not Delineated By Contractual Agreement



**HENRY STREET**  
(42' ± Wide)

**PLOT PLAN  
PREPARED FOR  
239-241 HENRY STREET ASSOCIATES, LLC  
STAMFORD, CONNECTICUT**

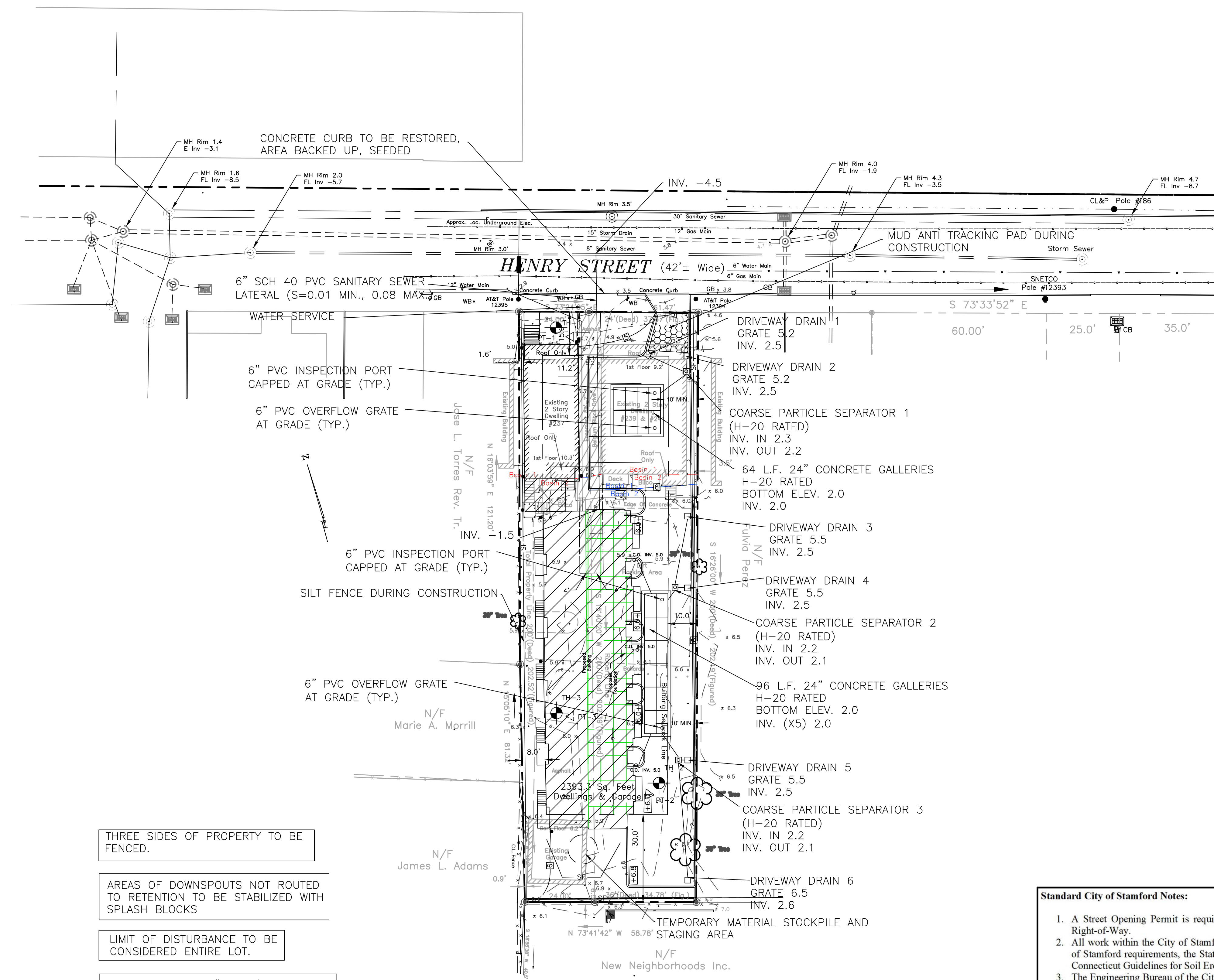


- Notes:**
- Elevations based on NAVD-88 Datum.
  - Underground utility, structure and facility locations depicted and noted hereon have been compiled, in part, from record mapping supplied by the respective utility companies or governmental agencies, from parcel testimony and from other sources. These locations must be considered as approximate in nature. Additionally, other such features may exist on the site, the existence of which are unknown to Edward J. Frattaroli, Inc. The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction.
  - The contractor shall notify all public utility companies by calling Call-Before-You-Dig at 1-800-922-4455 at least 72 hours prior to crossing their lines.
  - Property is Subject to utility easements and/or Private Agreements if any, in addition to those depicted, noted and/or referenced on this Map. Reference is hereby made to all notes on Recorded Documents hereon referenced that pertain to this parcel. NO ABSTRACT OF TITLE PROVIDED.
  - Property Lies In Zone "A" Flood zone as Defined from Flood Insurance Rate Map, City Of Stamford, Connecticut, Panel 519 of 926, Community Panel Number 09001009160 Effective Date 07/08/2013. Subject Property is Depicted in an Area that is shown as being protected from the 1-percent chance or greater flood hazard by a Levee system. Overlapping or Failure of any Levee system is Possible. For additional information see the "Accredited Levee Note" in notes to users <https://mac.fema.gov>.

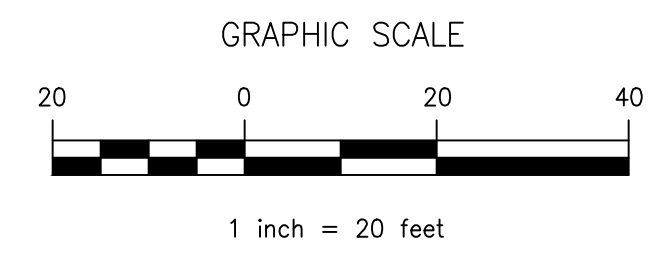
Refer To:  
Map No. 15163 S.L.R.  
Total Lot Area = 12,250 Sq. Ft.  
Existing Dwelling & Proposed Building Cover 33.9% Of Lot Area  
Proposed Building Covers 27.9% Of Lot Area  
Scale 1" = 10'

This survey and map has been prepared in accordance with Section 20-300b-1 thru 20-300b-20 of the Regulation of Connecticut State Agencies--Minimum Standards for Surveys and Maps in the State of Connecticut" as endorsed by the Connecticut Association of Land Surveyors, Inc. It is a "ZONING LOCATION SURVEY" based on a "RESURVEY" conforming to horizontal Accuracy Class "A-2" and intended to be used for COMPLIANCE OR NON-COMPLIANCE WITH EXISTING REQUIREMENTS.  
To my knowledge and belief this plan is substantially correct as noted hereon.

BY  
**FOR: EDWARD J. FRATTAROLI, INC.**  
Land Surveyors - Engineers - Land Planners  
STAMFORD, CONNECTICUT Feb. \_\_\_\_, 2021



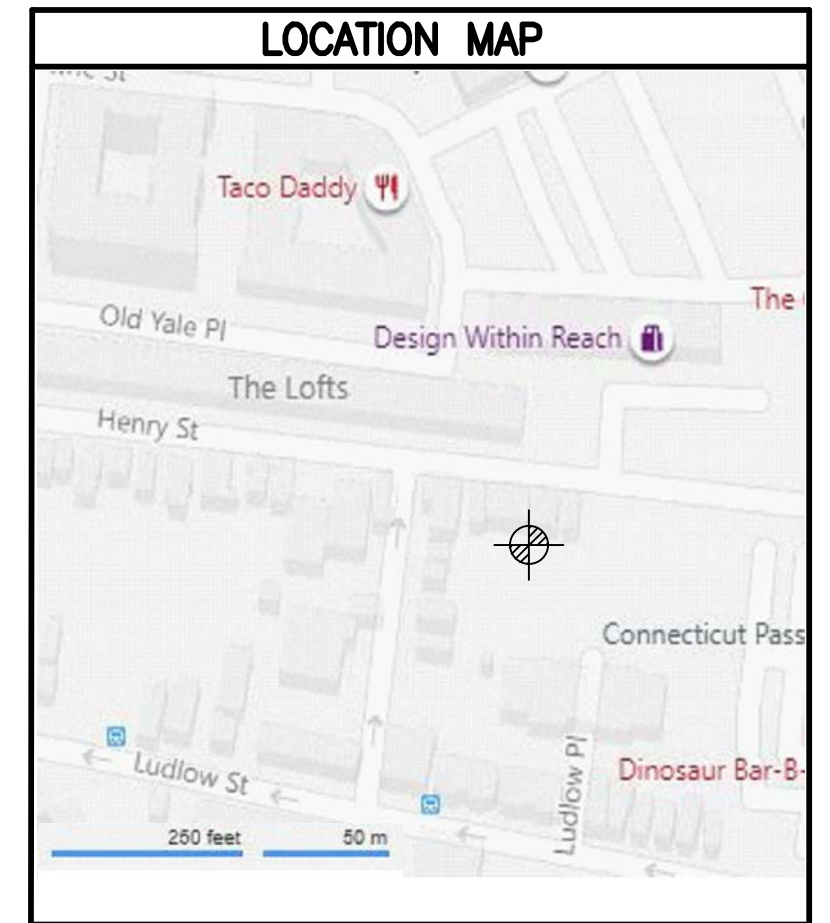
- THREE SIDES OF PROPERTY TO BE FENCED.
- AREAS OF DOWNSPOUTS NOT ROUTED TO RETENTION TO BE STABILIZED WITH SPLASH BLOCKS
- LIMIT OF DISTURBANCE TO BE CONSIDERED ENTIRE LOT.
- ALL PIPES TO BE 6" PVC (S=0.01 MIN. UNLESS OTHERWISE NOTED.



- SEDIMENTATION AND EROSION CONTROL NOTES**
- LAND DISTURBANCE SHALL BE KEPT TO A MINIMUM. PERMANENT STABILIZATION SHALL BE SCHEDULED AS SOON AS FINAL GRADES ARE ESTABLISHED.
  - ALL DISTURBED AREAS SHALL BE FINE GRADED AND SEEDED WITH AN APPROVED SEED MIXTURE. COVER NEWLY SEEDED AREAS WITH MULCH HAY OR SALT HAY.
  - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2002 CONNECTICUT 'GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL' HANDBOOK.
  - ALL CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. CHECK AFTER EACH STORM EVENT.
  - ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF REQUIRED BY TOWN AUTHORITIES.
  - SEDIMENT DEPOSITS REMOVED FROM FILTER BARRIERS SHALL BE PLACED IN FILL AREAS OR SPREAD WHERE THERE IS PROPOSED VEGETATIVE COVER. ANY SEDIMENT DEPOSITS REMAINING AFTER THE FILTER BARRIER IS REMOVED SHALL BE FINE GRADED AND PLANTED ACCORDING TO PLAN.
  - THE SITE CONSTRUCTION CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING OFFICE (AND/OR THE CONSERVATION COMMISSION) OF ANY TRANSFER OF THIS RESPONSIBILITY AND CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED TO A NEW OWNER.

- Standard City of Stamford Notes:**
- A Street Opening Permit is required for all work within the City of Stamford Right-of-Way.
  - All work within the City of Stamford Right-of-Way shall be constructed to City of Stamford requirements, the State of Connecticut Basic Building Code and the Connecticut Guidelines for Soil Erosion and Sedimentation Control.
  - The Engineering Bureau of the City of Stamford shall be notified three days prior to any commencement within the City of Stamford Right-of-Way.
  - Trees within the City of Stamford Right-of-Way to be removed shall be posted in accordance with the Tree Ordinance.
  - Prior to any excavation the Contractor and/or Applicant/Owner, in accordance with Public Act 77-350, shall be required to contact "Call Before You Dig" at 1-800-922-4455 for mark out of underground utilities.
  - All retaining walls greater than three (3) feet measured from finished grade at the top of the wall to finished grade at the bottom of the wall and retaining walls supporting a surcharge or impounding Class I, II, or II-A liquids are required to have a Building Permit. Retaining walls shall be designed, and inspected during construction by a Professional Engineer licensed in the State of Connecticut. Prior to issuance of a Certificate of Occupancy, retaining walls shall be certified by a Professional Engineer licensed in the State of Connecticut.
  - Certification will be required by a professional engineer licensed in the State of Connecticut that work has been completed in compliance with the approved drawings.
  - A Final Improvement Location Survey will be required by a professional land surveyor licensed in the State of Connecticut.
  - Connection to a city-owned storm sewer shall require the Waiver Covering Storm Sewer Connection to be filed with the City of Stamford Engineering Bureau.
  - Granite block or other decorative stone or brick, depressed curb, driveway apron and curbing within the City of Stamford Right-of-Way shall require a waiver from the City of Stamford Engineering Bureau.
  - Sediment and erosion controls shall be maintained and repaired as necessary throughout construction until the site is stabilized.
  - To obtain a Certificate of Occupancy, submittal must include all items outlined in the Checklist for Certificate of Occupancy (Appendix D of the City of Stamford Drainage Manual).
  - No EPB Permit #, Zoning Permit #, Zoning Board of Appeals # is applicable.

- GENERAL CONSTRUCTION NOTES:**
- CONSTRUCTION AND STRUCTURES SHALL COMPLY WITH ALL MUNICIPAL OR STATE REQUIREMENTS. ALL WORK SHALL BE CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER, TO THE SATISFACTION OF THE ENGINEERING BUREAU, THAT CONSTRUCTION IS IN ACCORDANCE WITH THESE PLANS.
  - THE ENGINEERING BUREAU OF THE DEPARTMENT OF PUBLIC WORKS AND THE ENGINEER OF RECORD SHALL BE NOTIFIED THREE DAYS PRIOR TO THE COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
  - NO CERTIFICATE OF CONFORMANCE TO STANDARDS SHALL BE ISSUED BY THE DESIGN ENGINEER IF PROPER NOTICE IS NOT PROVIDED FOR INSPECTIONS OR IF INSPECTIONS ARE NOT MADE PRIOR TO BACKFILLING OF BELOW GROUND STRUCTURES AND APPURTENANCES.
  - SUBSURFACE STRUCTURES AND UTILITIES HAVE BEEN DETERMINED FROM EXISTING RECORDS AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. IN ORDER TO AVOID CONFLICT OF THE PROPOSED WORK AND EXISTING UTILITIES, THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES BY EXCAVATING TEST HOLES. IF THE CONTRACTOR DETERMINES THAT A CONFLICT EXISTS, HE SHALL IMMEDIATELY NOTIFY THE ENGINEER, WHO WILL MAKE THE NECESSARY ADJUSTMENTS.
  - EXISTING PROPERTY AND UTILITY INFORMATION WAS TAKEN FROM A SURVEY BY EDWARD J. FRATTAROLI, INC. TITLED "PLOT PLAN PREPARED FOR 239-241 HENRY STREET ASSOCIATES LLC", DATED SEPTEMBER 17, 2018.
  - ALL SANITARY SEWER PIPE SHALL BE EITHER SDR-35 P.V.C. (ASTM D-3034) OR CLASS 52 DUCTILE IRON (ANSI A 21-51), AS INDICATED ON THE PLANS, UNLESS OTHERWISE INDICATED. ALL SANITARY SEWER PIPE SHALL HAVE RUBBER GASKET SLIP-TYPE JOINTS. INFILTRATION INTO SANITARY SEWERS SHALL NOT EXCEED 150 GALLONS PER INCH OF PIPE DIAMETER PER MILE OF PIPE IN 24 HOURS.
  - NO PIPE SHALL HAVE A BEND OF GREATER THAN 45 DEGREES.
  - THE CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, OR OTHER APPROPRIATE CONTACT POINT PRIOR TO START OF CONSTRUCTION.
  - ALL UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE LOCATION OF THE UTILITIES IN THE FIELD BY WHATEVER MEANS HE DEEMS PRUDENT.
  - THIS DESIGN CONFORMS TO APPLICABLE CODES AND ACCEPTED PRACTICE, NO OTHER WARRANTY IS EXPRESSED OR IMPLIED.
  - TOTAL SITE AREA = 0.2812 ACRES



3-8-21  
date

**239-241 HENRY STREET ASSOCIATES LLC**  
239-241 HENRY STREET STAMFORD, CONNECTICUT

DRAINAGE PLAN

CIVIL ENGINEERS

1673  
project

1 OF 2  
sheet

**FAIRFIELD COUNTY ENGINEERING L.L.C.**  
80 WINFIELD STREET, NORWALK, CONNECTICUT 06855 PH: (203) 831-8005 FAX: (203) 831-8006

<b>FCE Project #</b>	1673	<b>Date Performed:</b>	9/18/20
<b>Client:</b>	239-241 Henry Street Associates LLC		
<b>Location:</b>	239-241 Henry Street, Stamford		
<b>Observed by:</b>	Wayne D'Avanzo		
<b>Test Hole 1:</b>			
	0-9"	Topsoil	
	9-26"	Brown Silty Loam	
	26-60"	Light Brown Gravel and Silt	
		No Ground Water	
		No Mottling	
		No Ledger	
<b>Test Hole 2:</b>			
	0-9"	Topsoil	
	9-72"	Tan fine Gravel, stony	
		No Ground Water	
		No Mottling	
		No Ledger	
<b>Test Hole 3:</b>			
	0-9"	Topsoil	
	9-72"	Tan fine Gravel, stony	
		No Ground Water	
		No Mottling	
		No Ledger	

Conducted by: Wayne D'Avanzo Project: 1673  
 Type: Borehole infiltration; 4" solid pipe  
 Location: 239-241 Henry Street Town: Stamford  
 Client: 239-242 Henry Street Associates LLC Date: 9/18/2020

Weather conditions prior to and during tests:  
 Overcast, no rain

Single Lot: X Subdivision:  
 Diameter of Hole: 4" Depth of Hole: 48"

PT-1 Pre-Soak @: 9:15 AM Design 0.89"/Hr.

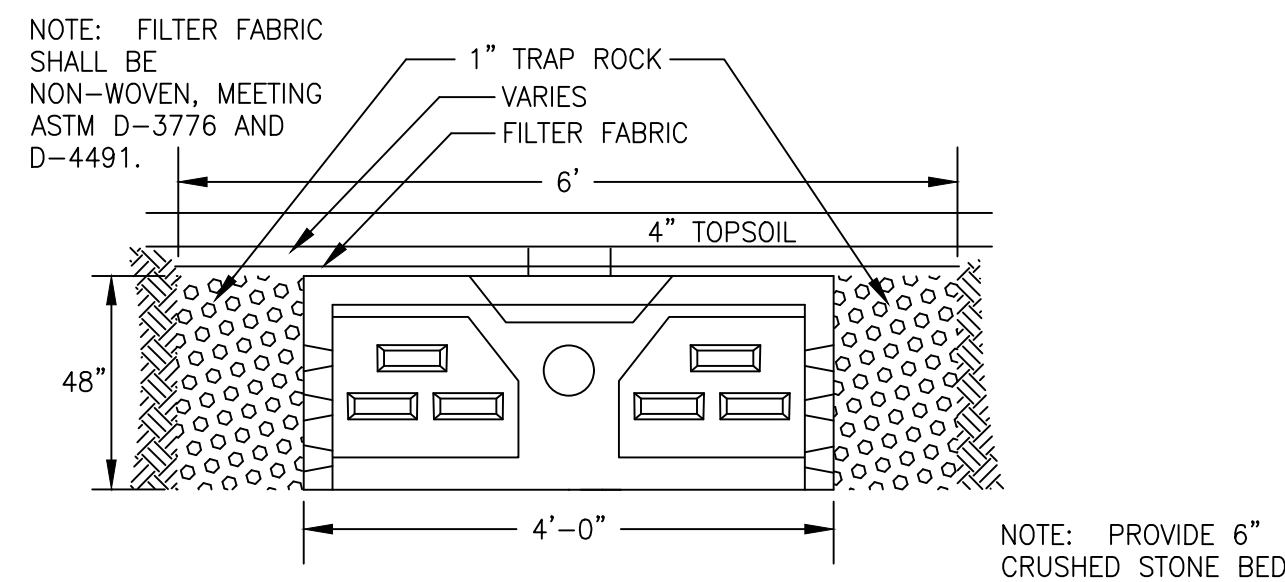
Time	Time Increment	Depth to Water	Drop in inches	Soil Percolation Rate Time to drop 1 inch	
10:00 AM	---	24"	---	---	
11:00 AM	1 Hr.	25 1/2"	1 1/2"	40.0 Min.	Refill to 24"
11:05 AM	---	24"	---	---	
12:05 PM	1 Hr.	25 3/4"	1 3/4"	34.3 Min.	Refill to 24"
12:10 PM	---	24"	---	---	
1:10 PM	1 Hr.	25 7/8"	1 7/8"	32.0 Min.	Refill to 24"
1:12 PM	---	24"	---	---	
2:12 PM	1 Hr.	26"	2"	30.0 Min.	
Avg. = 1.78"					

PT-2 Pre-Soak @: 9:17 AM Design 1.70"/Hr.

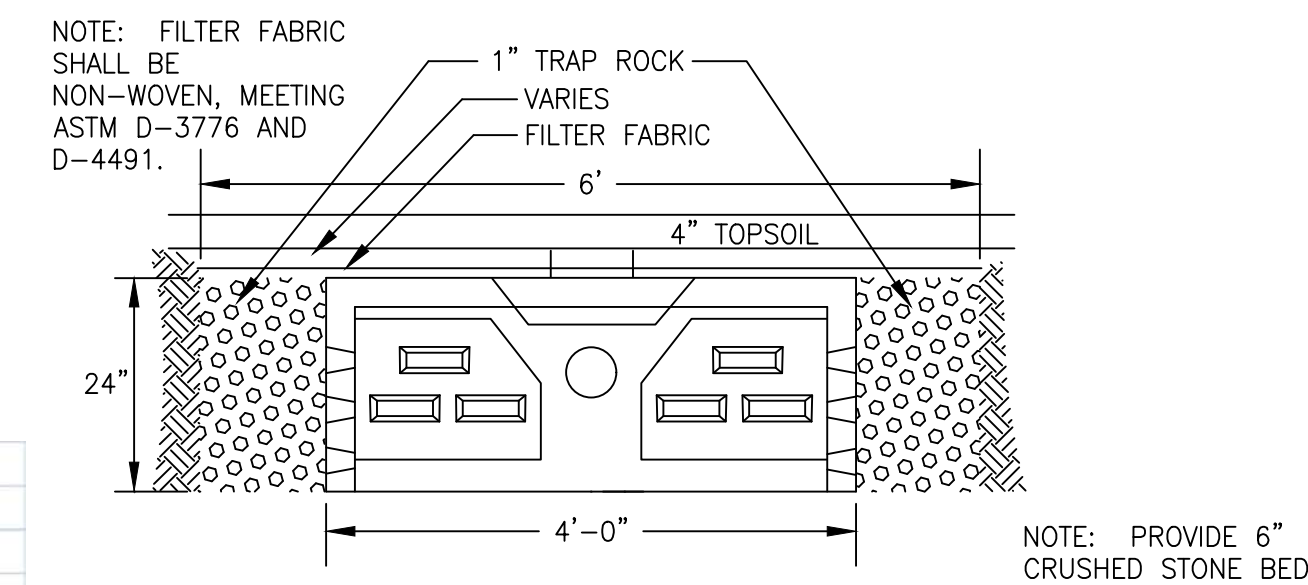
Time	Time Increment	Depth to Water	Drop in inches	Soil Percolation Rate Time to drop 1 inch	
10:03 AM	---	24"	---	---	
11:03 AM	1 Hr.	26 1/4"	3 1/4"	18.5 Min.	Refill to 24"
11:08 AM	---	24"	---	---	
12:08 PM	1 Hr.	25 7/8"	3 1/2"	17.1 Min.	Refill to 24"
12:08 PM	---	24"	---	---	
1:08 PM	1 Hr.	26 1/8"	3 3/8"	17.8 Min.	Refill to 24"
1:14 PM	---	24"	---	---	
2:14 PM	1 Hr.	26 1/2"	3 1/2"	17.1 Min.	
Avg. = 3.41"					

PT-3 Pre-Soak @: 9:17 AM Design 1.73"/Hr.

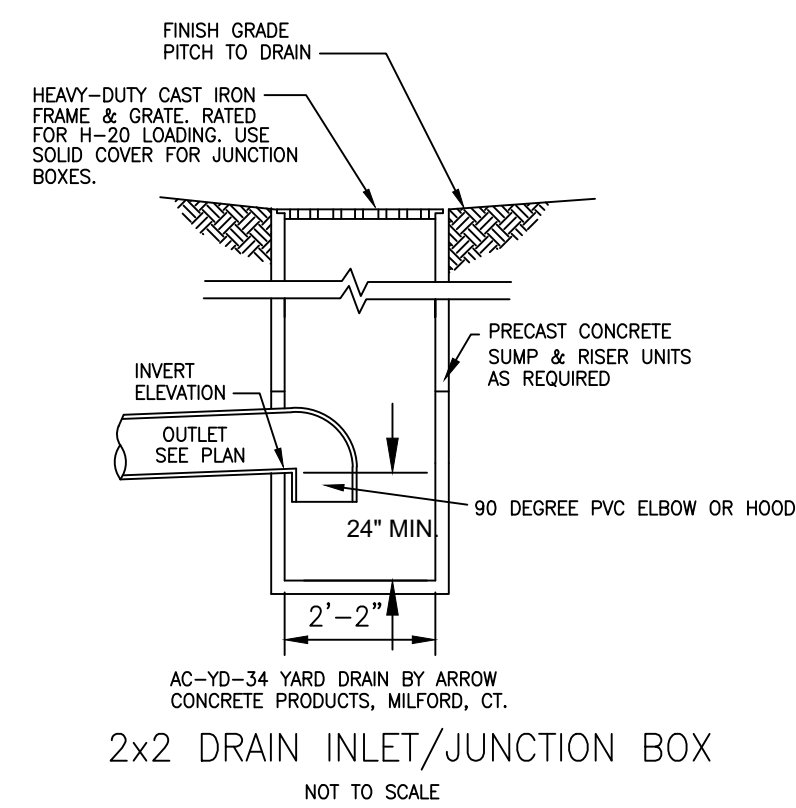
Time	Time Increment	Depth to Water	Drop in inches	Soil Percolation Rate Time to drop 1 inch	
10:06 AM	---	24"	---	---	
11:06 AM	1 Hr.	26 1/4"	3"	20.0 Min.	Refill to 24"
11:11 AM	---	24"	---	---	
12:11 PM	1 Hr.	25 7/8"	3 5/8"	16.6 Min.	Refill to 24"
12:12 PM	---	24"	---	---	
1:12 PM	1 Hr.	26 1/8"	3 1/2"	17.1 Min.	Refill to 24"
1:17 PM	---	24"	---	---	
2:17 PM	1 Hr.	26 1/2"	3 3/4"	16.0 Min.	
Avg. = 3.47"					



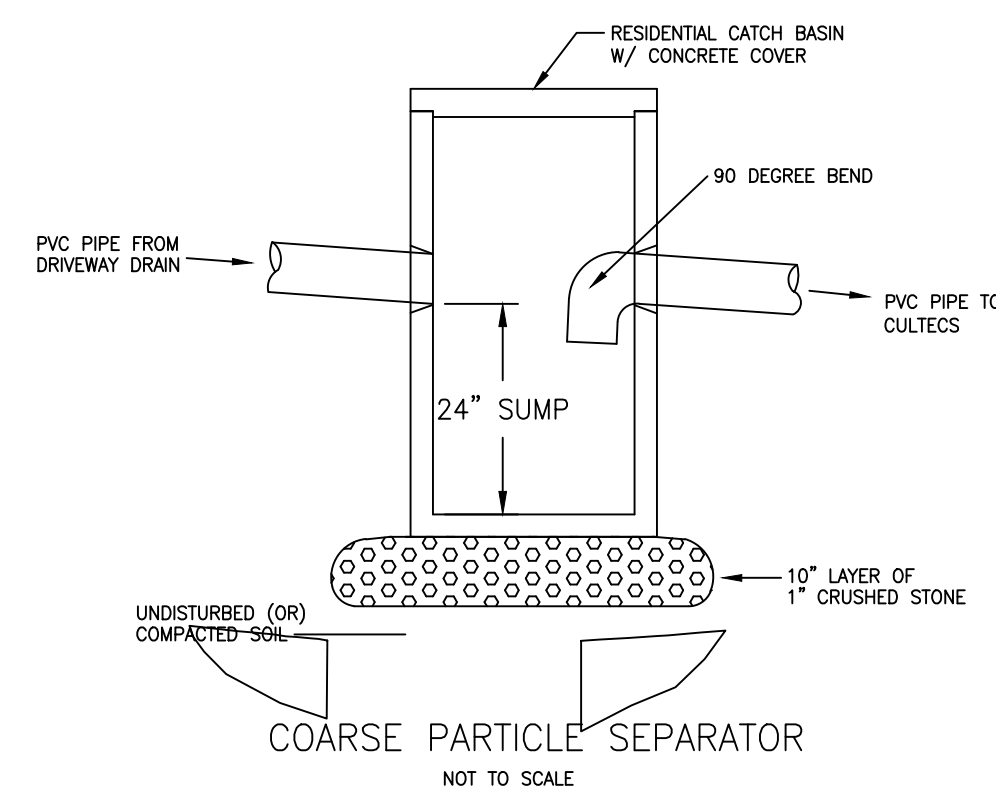
48" LEACHING GALLERY H-20 RATED  
 NOT TO SCALE



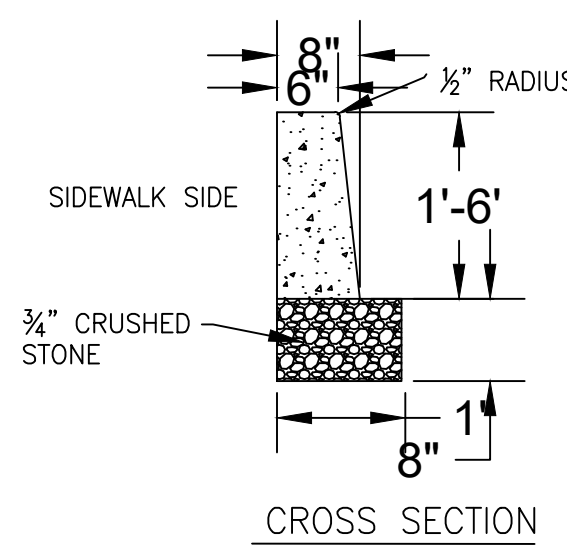
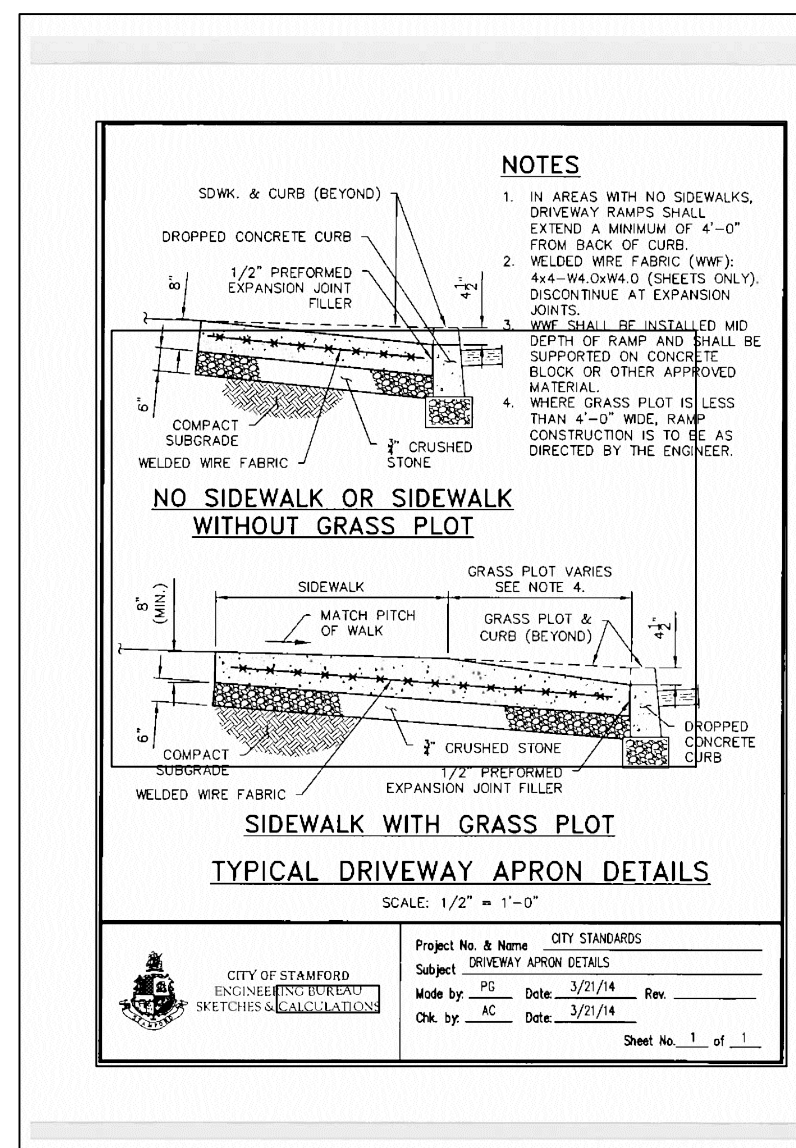
24" LEACHING GALLERY  
 NOT TO SCALE



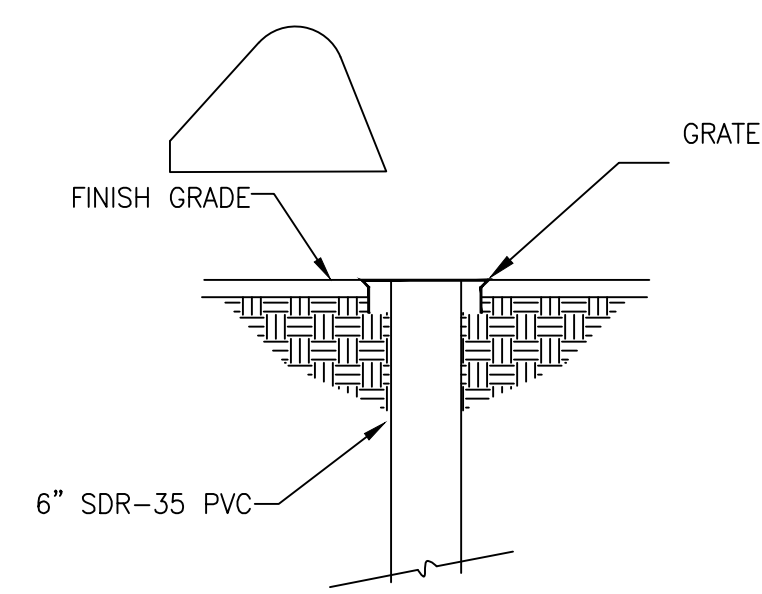
2x2 DRAIN INLET/JUNCTION BOX  
 NOT TO SCALE



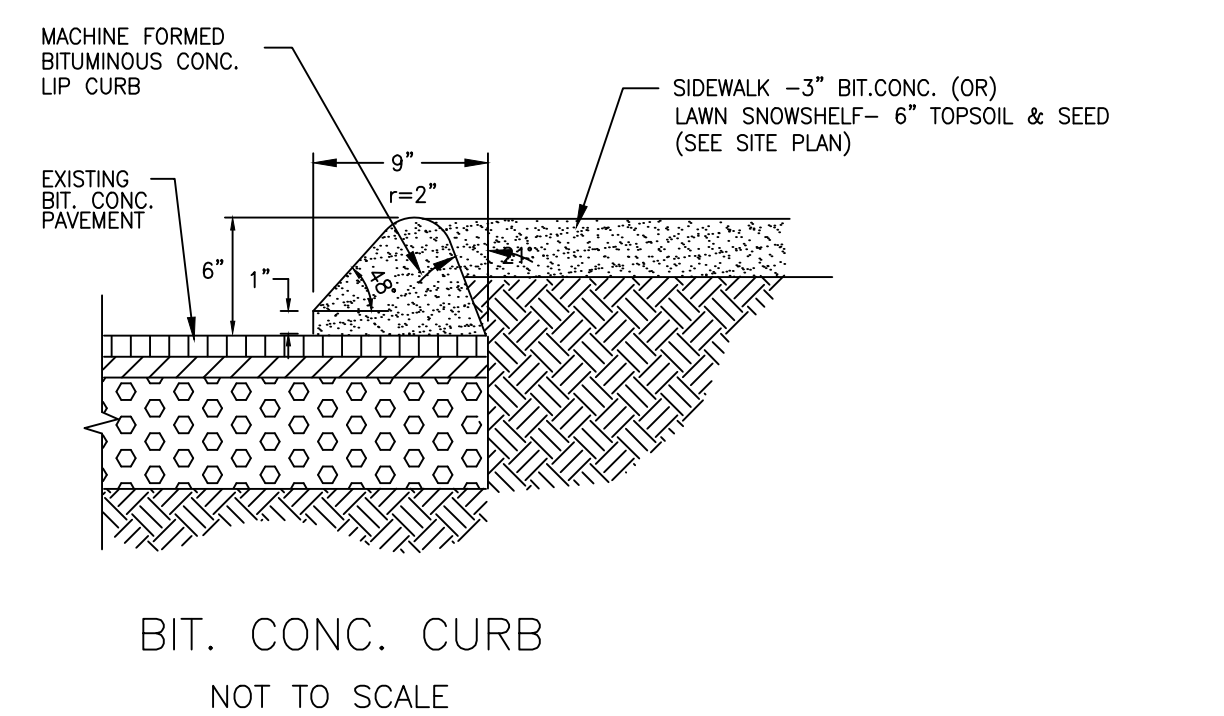
COARSE PARTICLE SEPARATOR  
 NOT TO SCALE



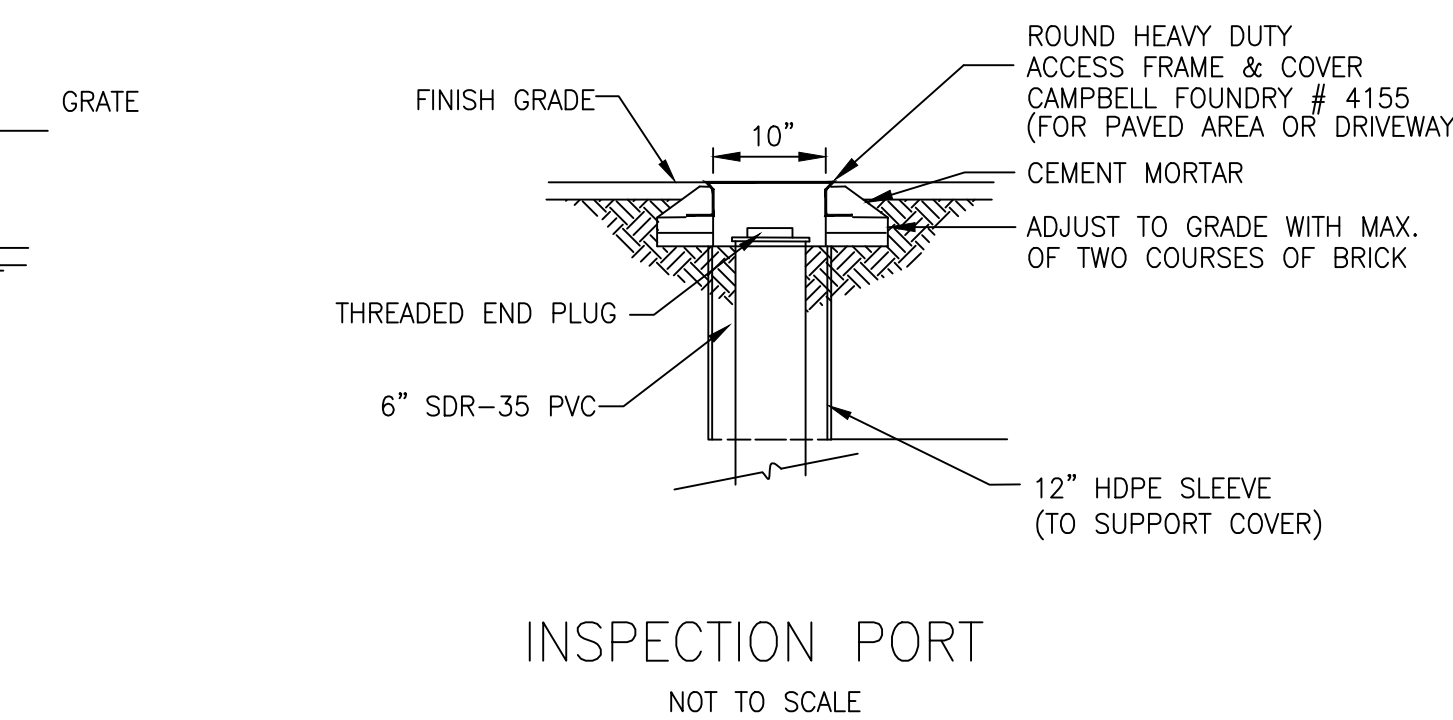
STANDARD CURB  
 NOT TO SCALE



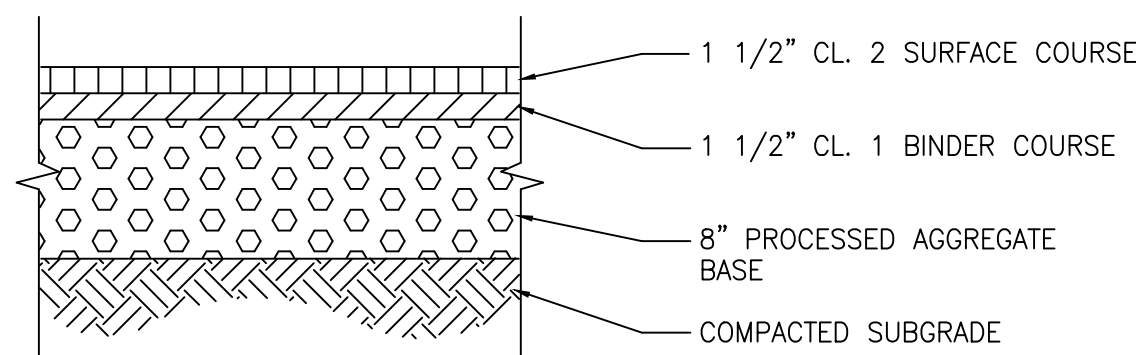
OVERFLOW  
 NOT TO SCALE



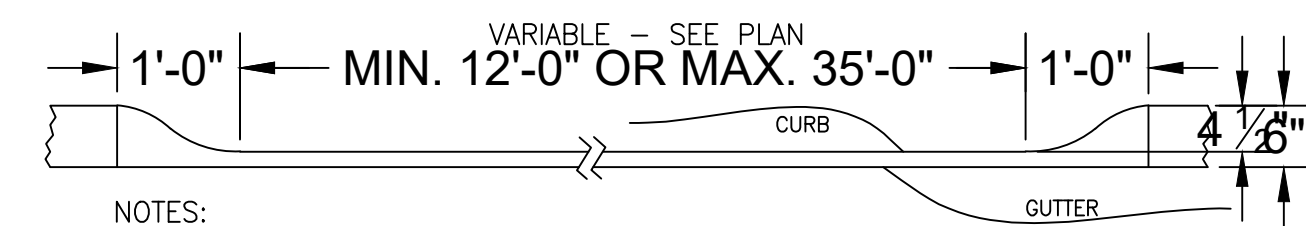
BIT. CONC. CURB  
 NOT TO SCALE



INSPECTION PORT  
 NOT TO SCALE



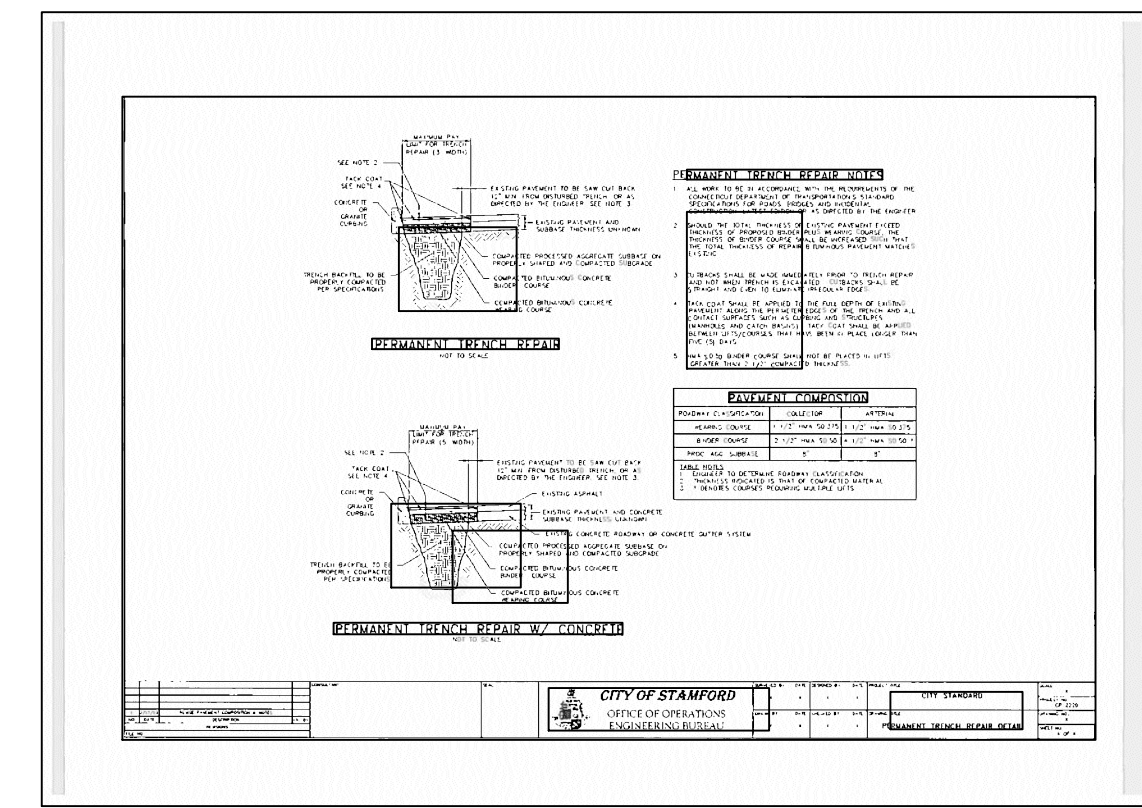
DRIVEWAY PAVEMENT  
 NOT TO SCALE



- NOTES:
1. ALL REINFORCING SHALL BE SUPPORTED ON CHAIRS OR OTHER POSITIVE TYPE SUPPORTS; ONE PER 25 S.F.
  2. CONCRETE SHALL BE CLASS 'C' CEMENT TYPE B, 3000 PSI
  3. AIR ENTRAPMENT SHALL BE BETWEEN 6% AND 7%.

PLAN VIEW

TYPICAL CONSTRUCTION OF CURB AT DRIVEWAY  
 NOT TO SCALE



Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
307	Urban land	D	0.4	100.0%
<b>Totals for Area of Interest</b>			<b>0.4</b>	<b>100.0%</b>

**Stormwater Facilities Maintenance Plan**

239-241 Henry Street Associates LLC  
 239-241 Henry Street, Stamford, CT

**Scope:**

The purpose of the Stormwater Facility Maintenance Plan is to ensure that the proposed stormwater components to be installed at 239-242 Henry Street are maintained in operational condition throughout the life of the project.

**Recommended Frequency of Service:**

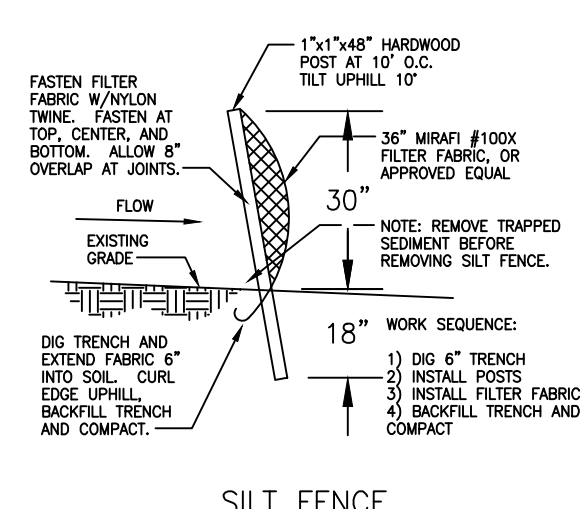
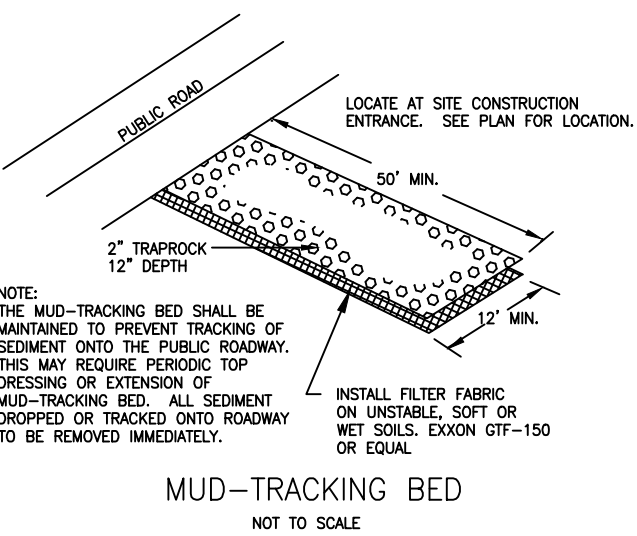
All of the stormwater components installed for this property should be checked periodically and kept in full working order. Ultimately, the frequency of inspection and service cleaning depends on the amount of runoff, pollutant loading and interference from debris (leaves, vegetation, trash, etc.); however it is recommended that the facility be inspected and cleaned a minimum of four times a year. The guidelines for the timing of service include early spring, after the last snowfall, and late fall after the leaves have fallen from the trees.

**Service Procedures:**

1. Concrete galleries: The maintenance of the concrete gallery units shall be in accordance with the aforementioned schedule. The units shall be inspected via the inspection port and removed of sediment and debris as needed. The overflow grate shall be cleared of any accumulated debris.
2. Roof gutters: The roof gutters of the house shall be inspected and cleared of any leaves, twigs, debris, etc. This shall be done at in the early spring, and late fall after all of the leaves have fallen from trees.
3. Roof Leaders: The maintenance of the roof leaders shall be in accordance with the aforementioned schedule and shall include the inspection of the leaders via the cleanouts and removal of any debris, obstruction and sediment.
4. Driveway Drains: The driveway drains shall be inspected and the grates cleared of any leaves, twigs, debris, etc. This shall be done at in the early spring, and late fall after all of the leaves have fallen from trees. The sump shall be inspected and cleared of any accumulated silt, debris, etc. The outflow elbow shall be inspected. The structure shall be inspected for integrity, and repaired/replaced as necessary.
5. Coarse Particle Separator: The coarse particle separator shall be inspected and cleared of any leaves, twigs, debris, etc. This shall be done at in the early spring, and late fall after all of the leaves have fallen from trees. The sump shall be inspected and cleared of any accumulated silt, debris, etc. The outflow elbow shall be inspected. The structure shall be inspected for integrity, and repaired/replaced as necessary.

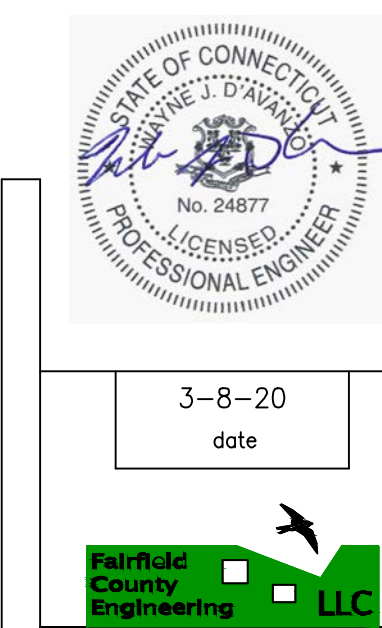
**Reporting:**

A maintenance log shall be kept of each inspection outlining the items inspected and the maintenance performed. These logs should be kept on file by the Owner, and must be shared with the City upon request.



**CONSTRUCTION SEQUENCE**

1. Install silt fencing and other erosion controls as shown on plan.
2. Install mud anti tracking pad as shown on plan.
3. Remove existing structures.
4. Construct building, rough in driveway.
5. Install PVC roof leaders to area of retention system.
6. Install driveway drains, coarse particle separator.
7. Install underground retention systems, connect roof leaders, pipes from driveway drainage.
8. Grade as shown on plan.
9. Fine grade, topsoil and seed all areas.



239-241 HENRY STREET ASSOCIATES LLC  
 239-241 HENRY STREET STAMFORD, CONNECTICUT

DETAIL SHEET

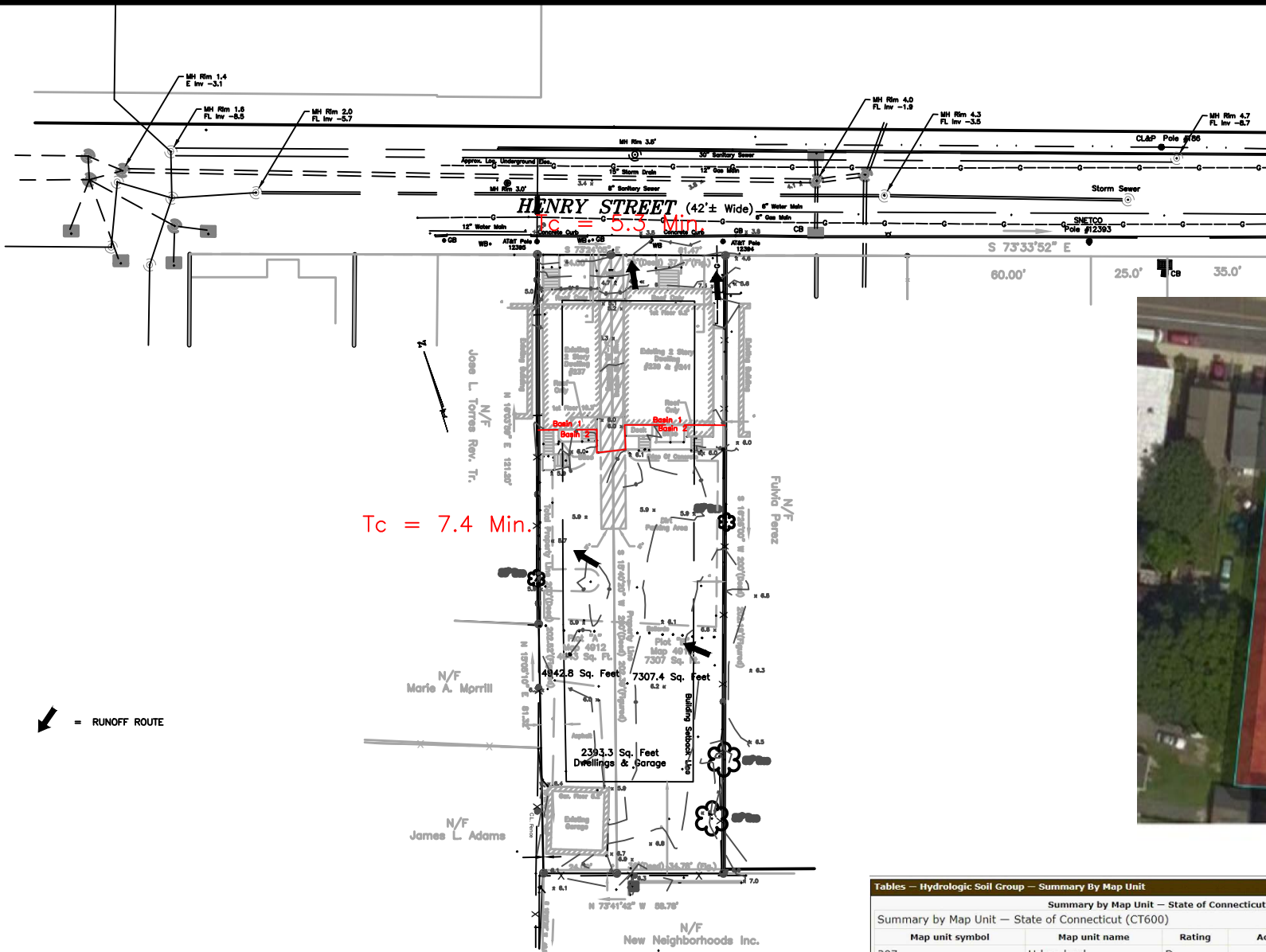
CIVIL ENGINEERS

FAIRFIELD COUNTY ENGINEERING L.L.C.

80 WINFIELD STREET, NORWALK, CONNECTICUT 06855 PH: (203) 831-8005 FAX: (203) 831-8006

1673 project

2 OF 2 sheet

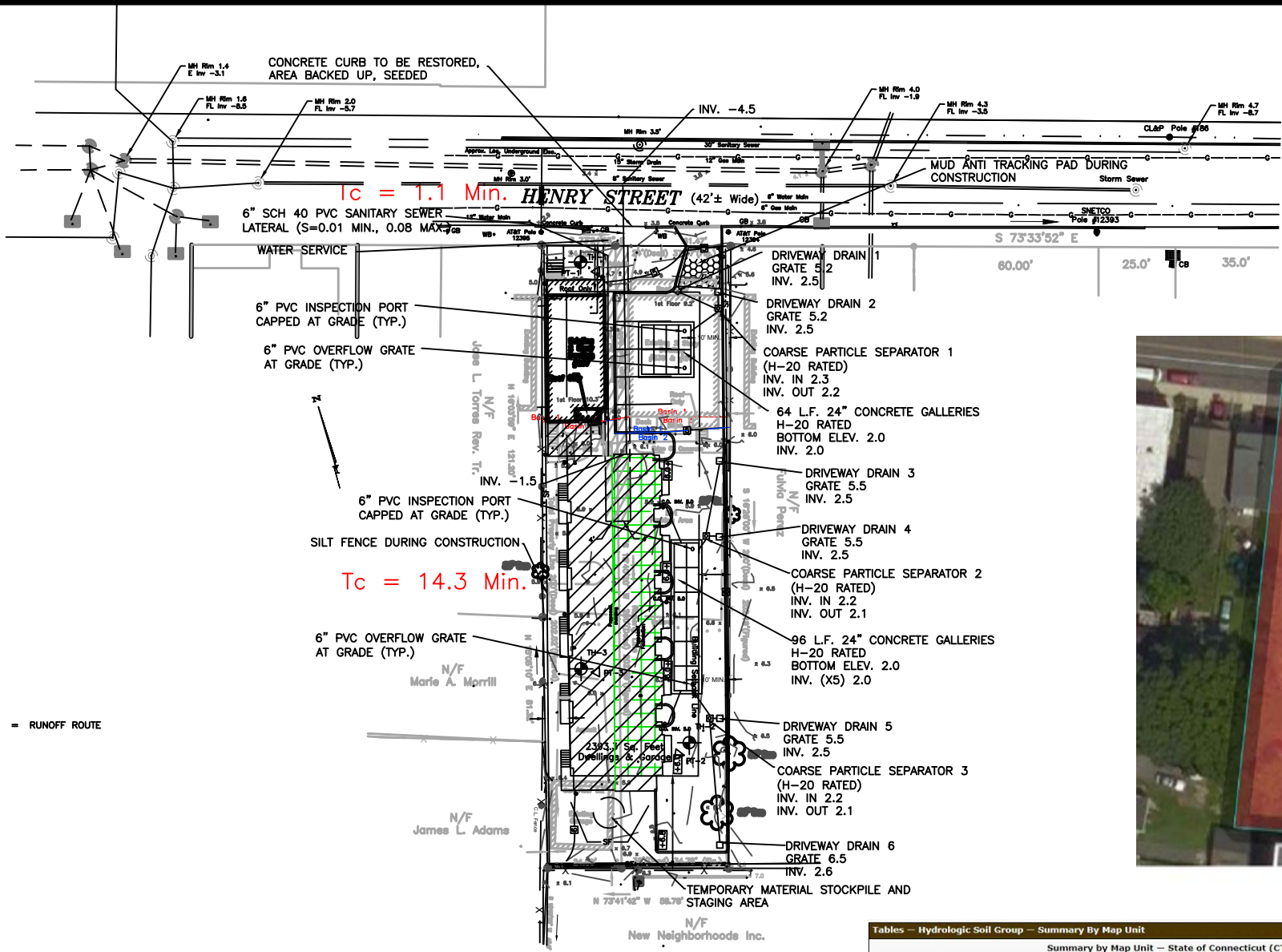


Tables — Hydrologic Soil Group — Summary By Map Unit

Summary by Map Unit — State of Connecticut (CT600)

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
307	Urban land	D	0.4	100.0%
<b>Totals for Area of Interest</b>			<b>0.4</b>	<b>100.0%</b>

8-13-20 date		239-241 HENRY STREET ASSOCIATES LLC 239-241 HENRY STREET STAMFORD, CONNECTICUT	
EXISTING BASIN		CIVIL ENGINEERS	
FAIRFIELD COUNTY ENGINEERING L.L.C.		1673 project	
1 OF 1		sheet	



Tables - Hydrologic Soil Group - Summary By Map Unit

Summary by Map Unit - State of Connecticut (CT600)

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<b>Totals for Area of Interest</b>			<b>0.4</b>	<b>100.0%</b>

239-241 HENRY STREET ASSOCIATES LLC  
239-241 HENRY STREET STAMFORD, CONNECTICUT

8-13-20  
date

PROPOSED BASIN

CONSULTING CIVIL ENGINEERS

1673  
project

FAIRFIELD COUNTY ENGINEERING L.L.C.

1 OF 1  
sheet

80 NEWFIELD STREET, NEWMILFORD, CONNECTICUT 06459 PH (203) 831-8005 FAX (203) 831-8006



City of Stamford  
 Engineering Bureau  
 888 Washington Boulevard, 7th Floor Stamford, CT 06901  
 Phone 203-977-4189

### CHECKLISTS

Project Name: NA  
 Project Address 239-241 HENRY STREET  
 Property Owner(s) \_\_\_\_\_  
 Tax Account Number(s) 000-5215  
 Engineer's Signature [Signature] Date: 10/3/20

**All checklists must be completed and submitted. Provide a brief explanation for any items not provided. Check boxes as completed or N/A as not applicable.**

<input checked="" type="checkbox"/>	<b>Existing Conditions Plan</b>
<input checked="" type="checkbox"/>	<b>Stormwater Management Report</b>
<input checked="" type="checkbox"/>	<b>Stormwater Management Plan / Construction Plan</b>
<input type="checkbox"/>	<b>Certificate of Occupancy</b>

### Checklist for Existing Conditions Plan

**I. General Information**

<input checked="" type="checkbox"/>	Site address
<input checked="" type="checkbox"/>	Orientation, block, zone, City, street name
<input checked="" type="checkbox"/>	Applicant name and legal address
<input checked="" type="checkbox"/>	Surveyor name, address, contact information
<input checked="" type="checkbox"/>	North arrow, bar scale, horizontal and vertical datum
<input checked="" type="checkbox"/>	24" x 36" sheet size unless otherwise approved
<input checked="" type="checkbox"/>	Existing conditions survey shall be prepared in accordance with the Minimum Standards for Surveys and Maps in the State of Connecticut. The class of survey shall be A-2 and T-2 and shall be represented as such on the map. The base map shall be sealed and signed by a Professional Land Surveyor licensed in the State of Connecticut.
<input checked="" type="checkbox"/>	Drawing scale shall be set at 1" = 20' or 1" = 40' when possible



**II. Existing Conditions Plan Elements**

✓	Show and label all property boundaries with linear bearing / distances and curve informaton
✓	Required zoning setbacks
NA	Show and label monument information
✓	Show and label at least one permanent benchmark on the parcel with northing, easting and elevation
✓	Label adjacent property ownership information
✓	Existing contours based on NAVD 88 (no exceptions) at 2 foot contour interval or 1 foot contour interval when slope is flatter than 2 percent at a minimum of 20 ft. beyond the property boundaries of the subject parcel
✓	Show spot elevations at low points, high points, and where topography is flatter than 2 percent
✓	All buildings and structures (label current use and finished floor elevations)
✓	All pavement, parking, driveways, property access points
✓	All roadways, streets, and rights-of-way. Label streets as public or private with street name
✓	All patios, decks, walkways, sidewalks, curb ramps (both adjacent to and opposite and existing roadways or intersections)
✓	Show and label (size, material, inverts) all existing utilities (overhead and underground) within the right-of-way and the project site (label ownership) including but not limited to water, gas and electrical services, wells, storm sewers, sanitary sewers and subsurface sewerage disposal systems.
NA	Show and label existing conveyance systems (swales, ditches, storm drains) including dimensions, elevations, sizes, slopes, and direction of flow
NA	Show and label boundaries of all easements, both public and private, with type, owner, and width
	Show and label all other existing features and improvements (e.g. light poles, mature trees of 8" (dbh) diameter or greater, vegetation, walls with top and bottom elevations, fences, pavement markings)

**III. Resource Areas**

NA	Show and label limits of inland wetlands, tidal wetlands and any associated setbacks.
NA	Show and label existing natural site features including tree canopy, outcroppings, permanent and intermittent watercourses, waterbodies, streams
NA	Show and label limits of floodplain and floodway along with FIRM references (Community Number, Panel, Suffix, and Date) including any effective Letters of Map Revision/Amendment, zone designation and elevation.
NA	Show and label any Conservation Easement Areas
NA	Show and label Connecticut Coastal Jurisdiction Line (CJL)
NA	Show and label existing steep slopes (25% and greater)



## Checklist for Stormwater Management Report

### I. Project Report

#### A. Applicant / Site Information

✓	Applicant name, legal address, contact information (email & phone)
✓	Engineers name, legal address, contact information (email & phone)
✓	Site address and legal description
✓	Current / proposed zoning and land use
✓	Site vicinity map (8.5" x 11")

#### B. Project Description and Purpose

✓	Project description including proposed project elements and anticipated construction schedule
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#### C. Existing Conditions Description

✓	Site area, ground cover, vegetation, features (roads, buildings, utilities, etc.)
✓	Site topography, slopes, drainage patterns, conveyances systems (swales, storm drains, etc.), stormwater discharge locations
✓	Receiving waterbody information including stormwater impairments and TMDL information (See the most recent <u>State of Connecticut Integrated Water Quality Report</u> )
✓	Site soils information including soil types, hydrologic soil group, bedrock / outcroppings, groundwater elevation, significant geologic features
✓	Provide NRCS Soils Mapping
NA	Resource protection areas (wetlands, streams, lakes, etc.), buffers, floodplains, floodways

#### D. Summary of Applicable General Design Criteria

✓	Methodology, design storm frequency
✓	Hydrologic design criteria
NA	Hydraulic design criteria
NA	Flood hazard areas

#### **Applying under "Lite" Stormwater Management: Skip to Section I**

(Refer to Flow Chart on page vii of the City of Stamford Stormwater Drainage Manual)

#### E. Project Type in Accordance with Standard 1 Definitions

	Area of disturbance, receiving waterbody classification (High Quality, Tidal Wetlands, Direct Waterfront)
	Project type (development, redevelopment, linear development)
	Pollutant reduction standard per flowchart Section 2.4





F. Summary of LID Site Constraints

	Description of sensitive areas for protection
	Mature tree inventory, which shall include 8-inch (dbh) diameter trees or greater
	Steep slopes
	Ledge and bedrock depth
	Seasonal high groundwater elevation
	Pollutant hotspots
	Summary of infiltration rates

G. Summary of Proposed Stormwater Treatment Practices

	Proposed LID controls (i.e. minimize impervious, minimize DCIA, minimize disturbance, increase time of concentrations, other LID controls and strategies)
	Location, size, types
	Design criteria and references
	Stormwater treatment practice, drainage area characteristics / details

H. Summary of Compliance with Standards 1

	Required pollutant reduction criteria
	Provided pollutant reduction (WQV) by stormwater treatment practice
	Summary of compliance with Standard 1

I. Summary of Compliance with Standards 2, 3, and 4

✓	Description of proposed stormwater management system
✓	Pre-development site hydrology with delineation of each watershed area and sub-basin
✓	Post-development site hydrology with delineation of each watershed area and sub-basin
✓	Comparison table of pre- and post-development hydrology, peak flow, volume, and percent difference
✓	Summary table of watershed areas and sub-basin areas, time of concentration and runoff coefficients
	Summary table demonstrating the 2-year, 24-hour post development peak flow rate is less than or equal to the lowest of either:
NA	- The pre-development 1-year, 24-hour storm peak flow rate
NA	- 50 percent of the pre-development 2-year, 24-hour storm peak flow rate
NA	Conveyance protection, emergency outlet sizing
NA	Hydraulic grade line summary and tail water elevation used in analysis
✓	Construction erosion and sediment control description, Standard 3
✓	Operation and Maintenance, maintenance tasks and schedule on construction plans per Standard 4



**J. Summary of Compliance with Applicable Drainage Facility Design Requirements**

NA	Description of applicable design requirements and compliance
NA	Description of proposed drainage facilities and compliance

**K. Stormwater Management Report**

✓	Signed and stamped by professional engineer licensed in the State of Connecticut
✓	Drainage impact statement in accordance with Standard 5B.

**II. Supporting Calculations (as appendix to Project Report)**

<b>Applying under "Lite" Stormwater Management: Skip to Section N</b>	
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**L. Water Quality Volume / Water Quality Flow Calculations**

	Calculations demonstrating the total Water Quality Volume generated by the post-development site and the required retention/treatment volume per Standard 1 in cubic feet.
	Calculations demonstrating the total Water Quality Volume retained/treated by each stormwater treatment practice and the total Water Quality Volume generated by the post-development contributing drainage area to each stormwater treatment practice

**M. Stormwater Treatment Practice Sizing Calculations**

	Calculations demonstrating how each stormwater treatment practice has been designed and sized in accordance with the Structural Stormwater BMP Design references in Appendix B. Calculations will vary by stormwater treatment practice, but a minimum, applicants shall provide calculations in accordance with design criteria from the Connecticut Stormwater Quality Manual.
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**N. Hydrologic and Hydraulic Design Calculations**

NA	Stream channel protection, Standard 2A
NA	Conveyance protection, Standard 2B
✓	Peak flow control (1-year, 2-year, 5-year, 10-year, 25-year, and 50-year storms), Standard 2C
NA	Inlet analysis
NA	Gutter flow (Site by site basis as requested by Engineering Bureau)
NA	Storm sewers and culverts (velocities, capacity, hydraulics)
NA	Hydraulic grade line required when pipe is flowing at full capacity <ul style="list-style-type: none"> <li>○ Provide existing and proposed summary table</li> <li>○ Provide existing and proposed mapping, label structures</li> </ul>
NA	Detention facilities (outlet structure, stage/storage, freeboard)
NA	Emergency outlet sizing, safely pass the 100 year storm, Standard 2D
NA	Outlet protection calculations, based on conveyance protection (i.e. riprap, energy dissipater)



O. Hydrologic and Hydraulic Model, Existing and Proposed

<input checked="" type="checkbox"/>	Drainage routing diagram
<input checked="" type="checkbox"/>	Summary
<input checked="" type="checkbox"/>	Storage pond input

P. Downstream analysis (Site by site basis as required by the Engineering Bureau)

<input checked="" type="checkbox"/>	Downstream analysis, Standard 2E
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**III. Supporting Mapping (as appendix to Project Report)**

Q. Pre-Development Drainage Basin Area Mapping

<input checked="" type="checkbox"/>	11" x 17" or 8.5" x 11" sheet size
<input checked="" type="checkbox"/>	Topography, drainage patterns, drainage area boundaries and sub basins, flow paths, times of concentration
<input checked="" type="checkbox"/>	Locations of existing stormwater discharges
<input checked="" type="checkbox"/>	Perennial and intermittent streams, wetlands, and floodplain / floodways
<input checked="" type="checkbox"/>	NRCS soil types, locations, boring locations, infiltration testing locations
<input checked="" type="checkbox"/>	Vegetation and groundcover
<input checked="" type="checkbox"/>	Existing roads, buildings, driveways, parking areas, walks, patios, pools and other impervious surfaces, decks and other structures
<input checked="" type="checkbox"/>	Location, size, type of existing structural stormwater controls, facilities and conveyance systems

R. Post-Development Drainage Basin Area Mapping

<input checked="" type="checkbox"/>	11" x 17" or 8.5" x 11" sheet size
<input checked="" type="checkbox"/>	Topography, drainage patterns, drainage area boundaries and sub basins, flow paths, times of concentration
<input checked="" type="checkbox"/>	Locations of proposed stormwater discharges
<input checked="" type="checkbox"/>	Perennial and intermittent streams, wetlands, and floodplain / floodways
<input checked="" type="checkbox"/>	NRCS soil types, locations, boring locations, infiltration testing locations
<input checked="" type="checkbox"/>	Vegetation, ground cover and proposed limits of clearing/disturbance
<input checked="" type="checkbox"/>	Proposed, roads, buildings, driveways, parking areas, walks, patios, pools and other impervious surfaces, decks and other structures
<input checked="" type="checkbox"/>	Location, size, type of proposed structural stormwater controls, facilities and conveyance systems

**IV. DCIA Tracking Worksheet (as appendix to Project Report)**

<input checked="" type="checkbox"/>	DCIA Tracking Worksheet (Use form found in Appendix E)
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**Checklist for Stormwater Management Plan / Construction Plans**

**A. General**

✓	Site orientation, address and legal description
✓	Applicant name, legal address, contact information
✓	Engineers name, address, contact information
✓	North arrow, bar scale, horizontal and vertical datum
✓	Drawing scale shall be set at 1"=20' or 1"=40' when possible
✓	Stamped by a Licensed Professional Engineer in the State of Connecticut
✓	24" x 36" sheet size unless otherwise approved

**B. Site Development Plans**

✓	City of Stamford Standard Notes
✓	As required by the Drainage Maintenance Agreement, provide a written narrative describing the nature of the proposed development activity and the program for operation and maintenance of drainage facilities and control measures throughout the life of the project.
✓	Existing and proposed contours based on NAVD 88 at 2 foot contour interval or 1 foot contour interval when slope is flatter than 2 percent
✓	All required spot elevations to clearly depict positive pitch
✓	Top and bottom elevation of all walls
✓	Roads, buildings, driveways, parking areas, walks, patios, pools and other impervious surfaces, and decks and other structures
✓	All utilities and easements
✓	Location, size, maintenance access, type of proposed structural stormwater controls and facilities with elevations and inverts
NA	Location, size, maintenance access, type of proposed non-structural stormwater controls and facilities with elevations and inverts
NA	Location, size, type of proposed stormwater infrastructure, inlets, manholes, infiltration and detentions systems, control structures with elevations and inverts
NA	Location, size, ownership of stormwater conveyance systems (swales, pipes, etc.) with elevations and inverts
✓	Identify roof leaders, curtain drains and foundation drains with elevations and inverts
NA	Proposed water quality treatment systems, size and model type
NA	Final stabilization measures which may include slope stabilization

**C. Erosion and Sedimentation Control Plan**

✓	Phasing and schedule
✓	Construction access and staging and stock pile areas
✓	Operation and maintenance of erosion and sedimentation controls
NA	Tree protection
NA	Downstream protection such as location of silt fencing
✓	Limit of disturbance
NA	Construction fencing



City of Stamford  
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Phone 203-977-4189

D. Construction Details

<input checked="" type="checkbox"/>	Standard City of Stamford details
<input checked="" type="checkbox"/>	Infiltration system details
<input type="checkbox"/>	Control structure details
<input type="checkbox"/>	Water quality treatment details
<input checked="" type="checkbox"/>	Infiltration testing results

**Checklist for Certificate of Occupancy**

<input type="checkbox"/>	Final Improvement Location Survey
<input type="checkbox"/>	Stormwater Management Certification Form
<input type="checkbox"/>	Final DCIA Tracking Worksheet
<input type="checkbox"/>	Standard City of Stamford Drainage Maintenance Agreement (Agreement Covenant)

Other Certifications at the discretion of the Engineering Bureau and/or EPB

<input type="checkbox"/>	Wall Certification
<input type="checkbox"/>	Landscape Certification
<input type="checkbox"/>	Landscape Maintenance Agreement
<input type="checkbox"/>	Waiver Covering Storm Sewer Connection
<input type="checkbox"/>	Waiver Covering Granite Block, Depressed Curb, and Driveway Aprons
<input type="checkbox"/>	Flood Certification



Note to user: complete all cells of this color *only*

Part 1: General Information	
Project Name	NA
Project Address	239-241 Henry Street
Project Applicant	239-241 Henry Street Associates LLC
Date of Submittal	3/8/2021
Tax Account Number	000-5215

Part 2: Project Details	
1. What type of development is this? (choose from dropdown)	Redevelopment
2. What is the total area of the project site?	12,250 ft <sup>2</sup>
3. What is the total area of land disturbance for this project?	12,250 ft <sup>2</sup>
4. Does project site drain to High Quality Waters, a Direct Waterfront, or within 500 ft. of Tidal Wetlands? (Yes/No)	No
5. What is the <u>current DCIA</u> for the site?	533 ft <sup>2</sup>
6. Will the proposed development increase <u>DCIA</u> (without consideration of proposed stormwater management)? (Yes/No)	No
7. What is the <u>proposed-development total impervious area</u> for the site?	9,048 ft <sup>2</sup>

Part 3: Water Quality Target Total	
Does Standard 1 apply based on information above?	No, Skip to Part 4
Water Quality Volume (WQV)	N/A ft <sup>3</sup>
Standard 1 requirement	N/A
Required treatment/retention volume	N/A ft <sup>3</sup>
Provided treatment/retention volume for proposed development	ft <sup>3</sup>

Part 4: Proposed DCIA Tracking	
<u>Pre-development total impervious area</u>	2,981 ft <sup>2</sup>
<u>Current DCIA</u>	533 ft <sup>2</sup>
<u>Proposed-development total impervious area</u>	9,048 ft <sup>2</sup>
<u>Proposed-development DCIA</u> (after stormwater management)	199 ft <sup>2</sup>
<u>Net change in DCIA</u> from <u>pre-development</u> to <u>proposed-development</u>	-334 ft <sup>2</sup>

Part 5: Post-Development (As-Built Certified) DCIA Tracking	
<u>Post-development</u> (per as-built) <u>total impervious area</u>	ft <sup>2</sup>
<u>Post-development</u> (per as-built) <u>DCIA</u> (after stormwater management)	ft <sup>2</sup>
<u>Net change in DCIA</u> from <u>pre-development</u> to <u>post-development</u>	ft <sup>2</sup>

**Certification Statement**

I hereby certify that the information contained in this worksheet is true and correct.

Engineer's Signature *[Signature]* Date *3/9/21* Engineer's Seal



# DRAINAGE REPORT PREPARED FOR EXISTING AND PROPOSED SITE CONDITIONS

LOCATED AT: 239-241 HENRY STEET  
STAMFORD, CONNECTICUT

FCE # 1673

March 8, 2021



**FAIRFIELD COUNTY ENGINEERING, LLC**

**CIVIL ENGINEERS**

**60 WINFIELD ST.  
NORWALK, CONNECTICUT 06855  
(203) 831-8005 FAX: (203) 831-8006 E-mail to: [wayne@fairfieldce.com](mailto:wayne@fairfieldce.com)**



**NARRATIVE:**

The subject of this report is a 0.281 acre parcel located at 239-241 Henry Street in Stamford. The property is currently zoned RMF. The purpose of this report is to determine the existing and proposed runoffs resulting from the proposed site improvements.

#### **EXISTING CONDITIONS:**

The subject parcel is located at the south of Henry Street, approximately 600 feet from its intersection with South Pacific Street. The lot currently contains two residences, associated asphalt driveway, parking area, and detached garage. The lot contains two drainage basins; one flowing to the north and to the road, the other basin in the rear flowing to the west. The lot is relatively flat. The drainage pattern follows the terrain as described. The property does not directly discharge to an impaired waterbody per the State of Connecticut's most recent Integrated Water Quality Report, List of Impaired Waters, Appendix B-1.

Existing soils at this location, as identified in the NRCS Soil Survey of Fairfield County, Connecticut, consists of Urban Land, which has a Hydrologic classification of "D".

The existing runoff from a 50-Year rainfall event in Basin 1 is 0.59 c.f.s.

The existing runoff from a 50-Year rainfall event in Basin 2 is 1.32 c.f.s.

#### **PROPOSED CONDITIONS:**

The proposal for this property is to raze one of the existing structures, and construct a new 5 unit residence, with associated driveway and parking.

The proposed runoff from a 50-Year rainfall event in Basin 1 is 0.60 c.f.s.

The proposed runoff from a 50-Year rainfall event in Basin 2 is 1.27 c.f.s.

The increased runoff resulting from the proposed improvements in each basin will be routed to an underground retention system sized to temporarily store the increased runoff before draining into the surrounding soils.

The disturbed areas will be protected with a silt fence on the downgrade elevations, properly backed up. A mud anti tracking pad will be placed on the construction entrance, and the roadway swept clean as necessary.

#### **COMPUTATIONS:**



The following computations of the existing and proposed conditions runoff flows were derived from the HydroCAD computer software. HydroCAD follows the NRCS TR-20 procedure for computing stormwater runoff. Computations were performed for a 1-year storm event, which has a 100% chance of occurring in any given 12 month period, through a 100-year storm event, which has a 1% chance of occurring in any given 12 month period.

Existing Conditions (Basin 1):

Buildings	2,252	s.f.	CN 98
Driveway	533	s.f.	CN 98
Walks	196	s.f.	CN 98
Lawn	513	s.f.	CN 84
Total	3,494	s.f.	

Weighted CN = **96**

Proposed Conditions (Basin 1):

Building	878	s.f.	CN 98
Driveway/Parking	1,818	s.f.	CN 98
Walk	26	s.f.	CN 98
Lawn	944	s.f.	CN 84
Total	3,666	s.f.	

Weighted CN = **94**

Groundwater Recharge Volume (GWV) Basin 1:

Impervious area = 74.2 %

$$WQV = (0.7178 * 0.084 \text{ ac})/12 = 0.0050246 \text{ ac-ft} = 218.9 \text{ ft}^3$$

$$GWQ = 218.9 * 0.1 = 21.9 \text{ ft}^3$$

Manning's Equation:

$$V = (1/n) A^{2/3} S^{1/2}$$

$$Q = V * \text{Cross sectional Area}$$

$$\text{For 6" PVC pipe: } V = (1/0.011) (0.125)^{2/3} (0.01)^{1/2} = 2.27 \text{ ft./sec}$$

$$Q = 2.27 * 0.196 \text{ ft}^2 = 0.44 \text{ c.f.s.}$$

Existing Conditions (Basin 2):

Building	215	s.f.	CN 98
Dirt Parking	2,863	s.f.	CN 91
Deck	49	s.f.	CN 91
Asphalt area	530	s.f.	CN 98
Garage	460	s.f.	CN 98
Lawn	4,639	s.f.	CN 84
Total	8,756	s.f.	

Weighted CN = **88**

Proposed Conditions (Basin 2):

Building	3,462	s.f.	CN 98
Driveway	2,639	s.f.	CN 98
Deck/stairs	225	s.f.	CN 91
Lawn	2,258	s.f.	CN 84
Total	8,584	s.f.	

Weighted CN = **95**

Groundwater Recharge Volume (GWV) Basin 2:

Impervious area = 73.7 %

WQV = (0.7133 \* 0.197 ac)/12 = 0.01117100 ac-ft = 510.1 ft<sup>3</sup>

GWQ = 510.1 \* 0.1 = 51.0 ft<sup>3</sup>

**SUMMARY:**

Basin 1:

	100 Year	50 Year	25Yr.	10Yr.	5Yr.	2Yr.	1Yr.
Existing Runoff :	0.67 c.f.s.	<b>0.59</b> c.f.s.	0.52	0.43	0.36	0.28	0.23
Proposed Runoff :	0.67 c.f.s.	0.60 c.f.s.	0.53	0.43	0.36	0.27	0.22
Runoff Retained:	0.31 c.f.s.	0.27 c.f.s.	0.24	0.20	0.17	0.13	0.11
Areas Bypassing Retention							
Plus overflow:	0.91 c.f.s.	<b>0.42</b> c.f.s.	0.29	0.24	0.19	0.15	0.12
% +/-	+35.8	-28.8	-44.2	-44.2	-47.2	-46.4	-47.8
Basin 2:							

	100 Year	50 Year	25Yr.	10Yr.	5Yr.	2Yr.	1Yr.
Existing Runoff :	1.51 c.f.s.	1.32 c.f.s.	1.15	0.92	0.75	0.54	0.42
Proposed Runoff :	1.44 c.f.s.	1.27 c.f.s.	1.12	0.92	0.77	0.59	0.48
Runoff Retained:	0.84 c.f.s.	0.74 c.f.s.	0.66	0.55	0.46	0.36	0.30
Areas Bypassing Retention							
Plus overflow:	1.52 c.f.s.	1.26 c.f.s.	1.13	0.80	0.62	0.23	0.18
% +/-	+0.7	-4.5	-1.7	-13.0	-17.3	-57.4	-57.1

<u>Basin</u>	<u>Area</u>	<u>Slope</u>	<u>Reach/Length</u>	<u>CN</u>	<u>Tc</u>
1	3,766 s.f.	0.024	57'	84	5.4
2	8,484 s.f.	0.007	103'	84	14.3

### **CONCLUSIONS:**

The increased run-off resulting from the proposed site improvements will be retained in an on-site retention system.

In Basin 1, the runoff from a portion of the driveway and parking area will be routed to 64 linear feet of 24" concrete galleries. The increase in stormwater runoff is mitigated on-site.

This system will reduce the net peak run-off during a 50 Year (2%) rainfall event to 0.42 c.f.s. from its current peak of 0.59 c.f.s.

The bottom of the concrete galleries will be at elevation 2.0, while the bottom of the stone bed will be at elevation 1.5. No restrictive layer was found to an elevation of 0.0. The volume of the voids in the stone bed is not counted in the retention capacity of the system.

The high level overflow for the retention system is a grate over the galleries at grade.

The 6" PVC pipes from the driveway drains routed to the retention system each have a minimum capacity of 0.44 c.f.s. This is in excess of the 0.27 c.f.s. peak flow of runoff routed through them at the peak of a 50 Year rainfall event.

The proposed retention system in Basin 1 provides a total of 516 ft<sup>3</sup> of storage, which will be adequate to maintain the net runoff during a 50 Year rainfall event, meets the Water Quality Volume, and will provide groundwater recharge.

The maximum peak net runoff in Basin 1 from the proposed conditions do not increase compared to the peak runoff from the existing conditions for each of the rainfall events from the 2 Year to the 50 Year rainfall events, as the table above illustrates.

In Basin 2, the runoff from a portion of the building roof and the driveway and parking area will be routed to 96 linear feet of 24" concrete galleries. The increase in stormwater runoff is mitigated on-site.

This system will reduce the net peak run-off during a 50 Year (2%) rainfall event to 1.26 c.f.s. from its current peak of 1.32 c.f.s.

The bottom of the concrete galleries will be at elevation 2.0, while the bottom of the stone bed will be at elevation 1.5. No restrictive layer was found to an elevation of 0.0. The volume of the voids in the stone bed is not counted in the retention capacity of the system.

The high level overflow for the retention system is a grate over the galleries at grade.

The 6" PVC roof leader and pipes from the driveway drains routed to the retention system each have a minimum capacity of 0.44 c.f.s. This is in excess of the 0.37 c.f.s. peak flow of runoff routed through them at the peak of a 50 Year rainfall event. (Half of the total collected runoff, with it being split between the driveway pipes and roof leaders.)

The proposed retention system in Basin 2 provides a total of 766 ft<sup>3</sup> of storage, which will be adequate to maintain the net runoff during a 50 Year rainfall event, meets the Water Quality Volume, and will provide groundwater recharge.

The maximum peak net runoff in Basin 2 from the proposed conditions do not increase compared to the peak runoff from the existing conditions for each of the rainfall events from the 2 Year to the 50 Year rainfall events, as the table above illustrates.

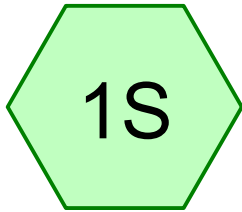
The retention system in Basin 1 empties completely in 44 hours after a 50 Year rainfall event.

The retention system in Basin 2 empties completely in 34 hours after a 50 Year rainfall event.

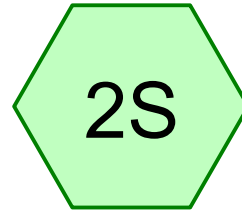
The proposed impervious surfaces other than the frontmost portion of the driveway are isolated from the City's infrastructure. The runoff from these surfaces disperses onto the rear or side pervious lawn areas, following the existing terrain to the front (north), over a length of approximately 50 feet to the road. As such, they do not connect to any part of the City's drainage infrastructure, and are not included in the DCIA totals.

The existing DCIA consists of the existing asphalt driveway, which runs off to the road, and the City drainage infrastructure.

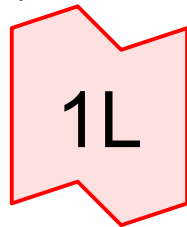
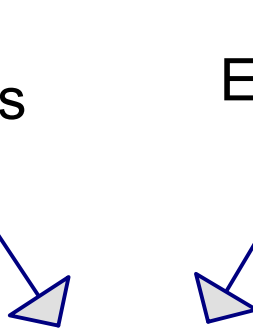
Based on the above information, the proposed improvements are designed in accordance with the City of Stamford Stormwater Drainage Manual and will not adversely impact adjacent or downstream properties or City-owned drainage facilities.



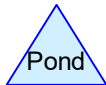
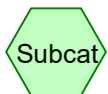
Existing Conditions  
(Impervious)



Existing Conditions  
(Lawn)



Combined Hydrograph



**Routing Diagram for 1673ExistingBasin1**  
Prepared by Fairfield County Engineering LLC, Printed 3/9/2021  
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# 1673ExistingBasin1

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Type III 24-hr 50 Year Rainfall=7.54"

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## Summary for Subcatchment 1S: Existing Conditions (Impervious)

Runoff = 0.52 cfs @ 12.07 hrs, Volume= 0.042 af, Depth> 7.30"

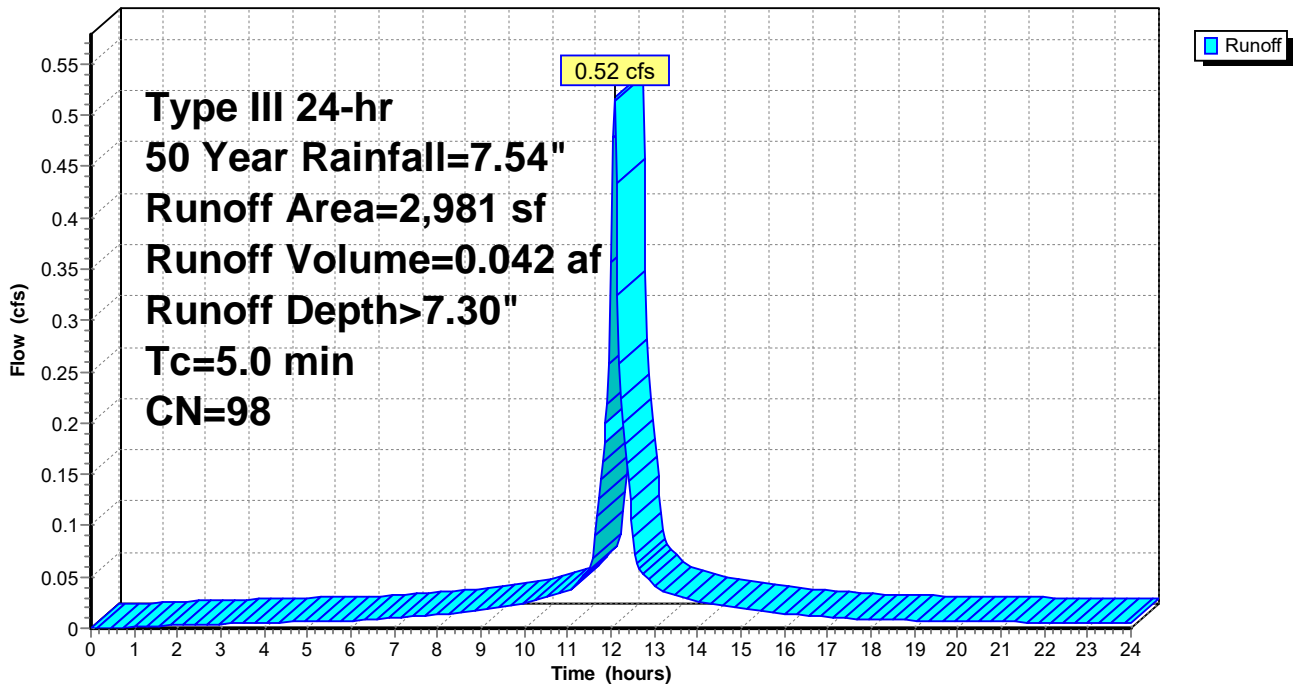
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.54"

	Area (sf)	CN	Description
*	2,252	98	Buildings
*	533	98	Driveway
*	196	98	Walks
	2,981	98	Weighted Average
	2,981		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

## Subcatchment 1S: Existing Conditions (Impervious)

Hydrograph



# 1673ExistingBasin1

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Type III 24-hr 50 Year Rainfall=7.54"

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## Summary for Subcatchment 2S: Existing Conditions (Lawn)

Runoff = 0.08 cfs @ 12.08 hrs, Volume= 0.006 af, Depth> 5.65"

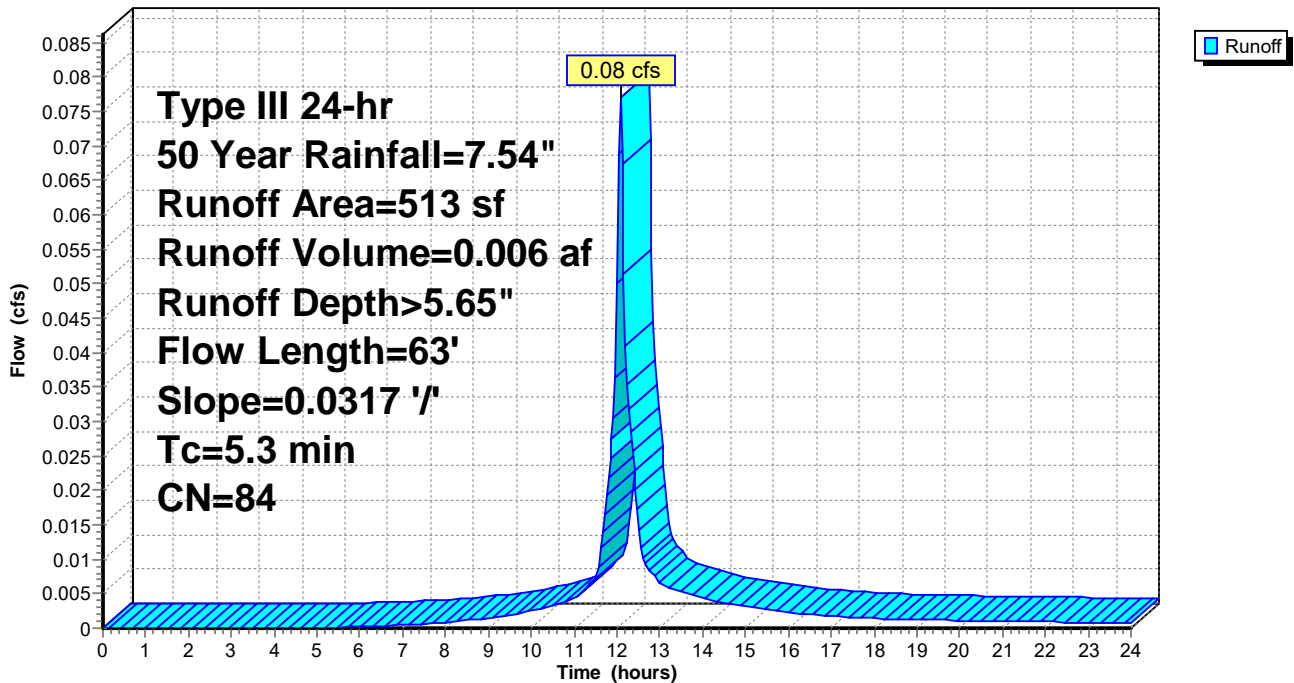
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.54"

Area (sf)	CN	Description
513	84	50-75% Grass cover, Fair, HSG D
513		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.3	63	0.0317	0.20		Sheet Flow, Grass: Short n= 0.150 P2= 3.64"

## Subcatchment 2S: Existing Conditions (Lawn)

Hydrograph



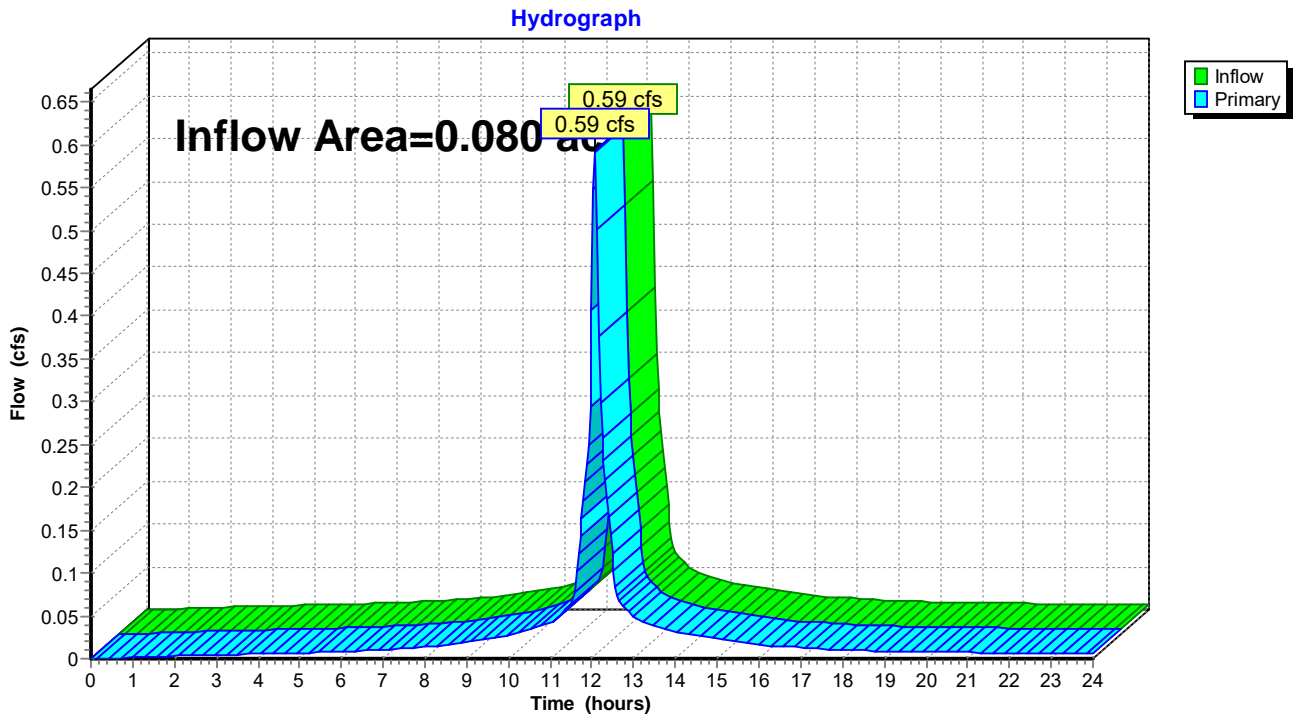


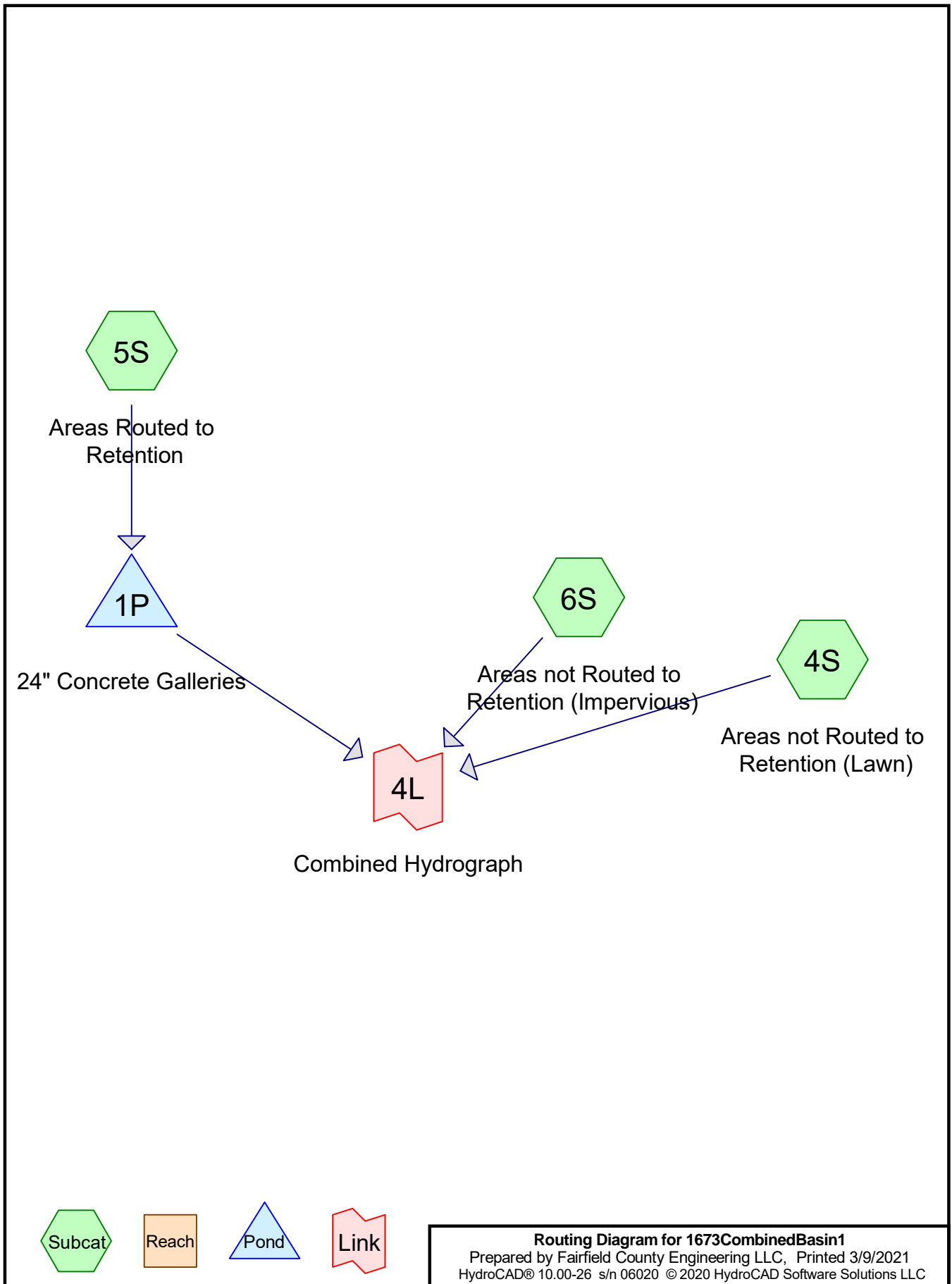
### Summary for Link 1L: Combined Hydrograph

Inflow Area = 0.080 ac, 85.32% Impervious, Inflow Depth > 7.06" for 50 Year event  
Inflow = 0.59 cfs @ 12.07 hrs, Volume= 0.047 af  
Primary = 0.59 cfs @ 12.07 hrs, Volume= 0.047 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

### Link 1L: Combined Hydrograph





# 1673CombinedBasin1

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Type III 24-hr 50 Year Rainfall=7.44"

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## Summary for Subcatchment 4S: Areas not Routed to Retention (Lawn)

Runoff = 0.15 cfs @ 12.02 hrs, Volume= 0.010 af, Depth> 5.56"

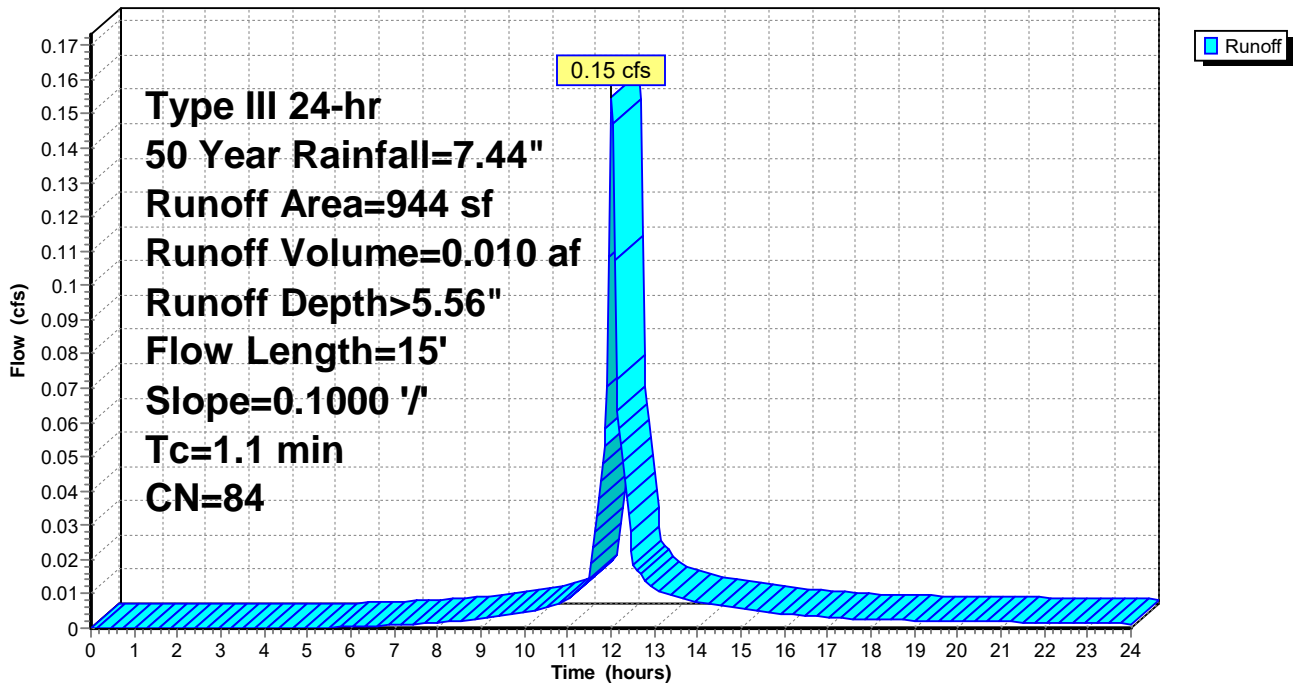
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.44"

Area (sf)	CN	Description
944	84	50-75% Grass cover, Fair, HSG D
944		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
1.1	15	0.1000	0.24		Sheet Flow, Grass: Short n= 0.150 P2= 3.64"

## Subcatchment 4S: Areas not Routed to Retention (Lawn)

Hydrograph



**Summary for Subcatchment 5S: Areas Routed to Retention**

Runoff = 0.27 cfs @ 12.07 hrs, Volume= 0.022 af, Depth> 7.20"

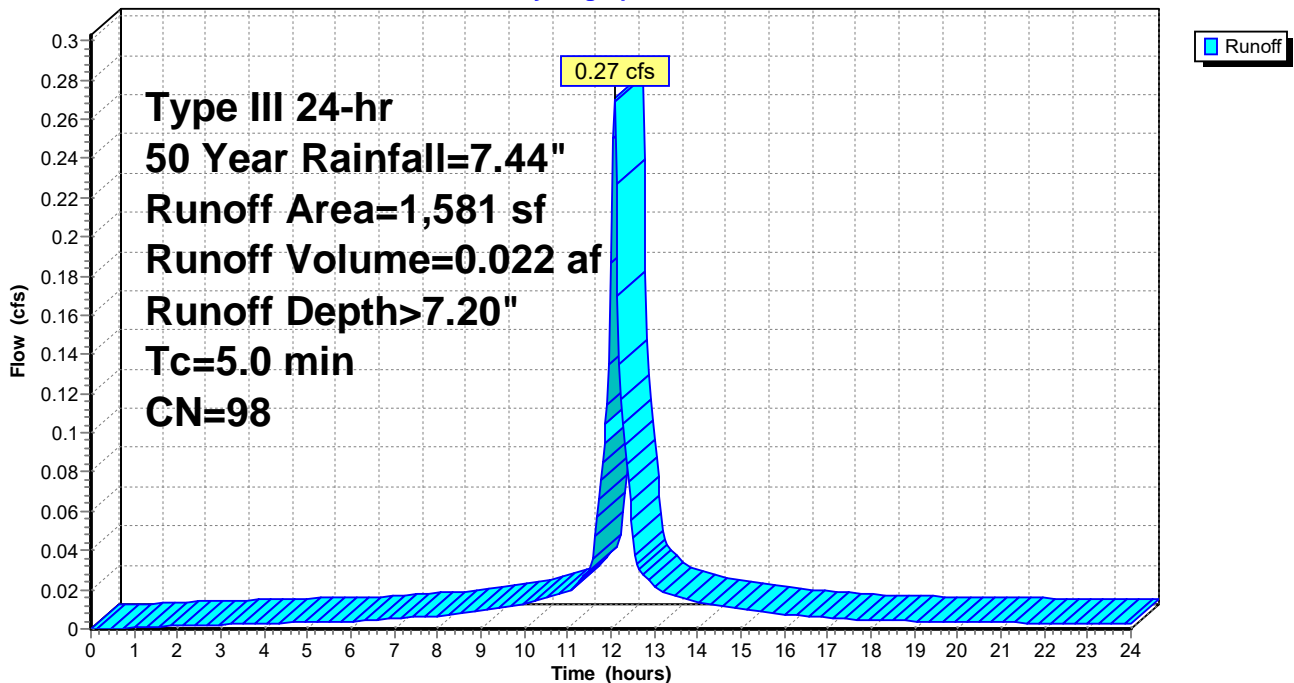
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.44"

Area (sf)	CN	Description
* 1,581	98	Portion of Driveway/Parking
1,581		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

**Subcatchment 5S: Areas Routed to Retention**

Hydrograph



**1673CombinedBasin1**

Type III 24-hr 50 Year Rainfall=7.44"

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**Summary for Subcatchment 6S: Areas not Routed to Retention (Impervious)**

Runoff = 0.20 cfs @ 12.07 hrs, Volume= 0.016 af, Depth> 7.20"

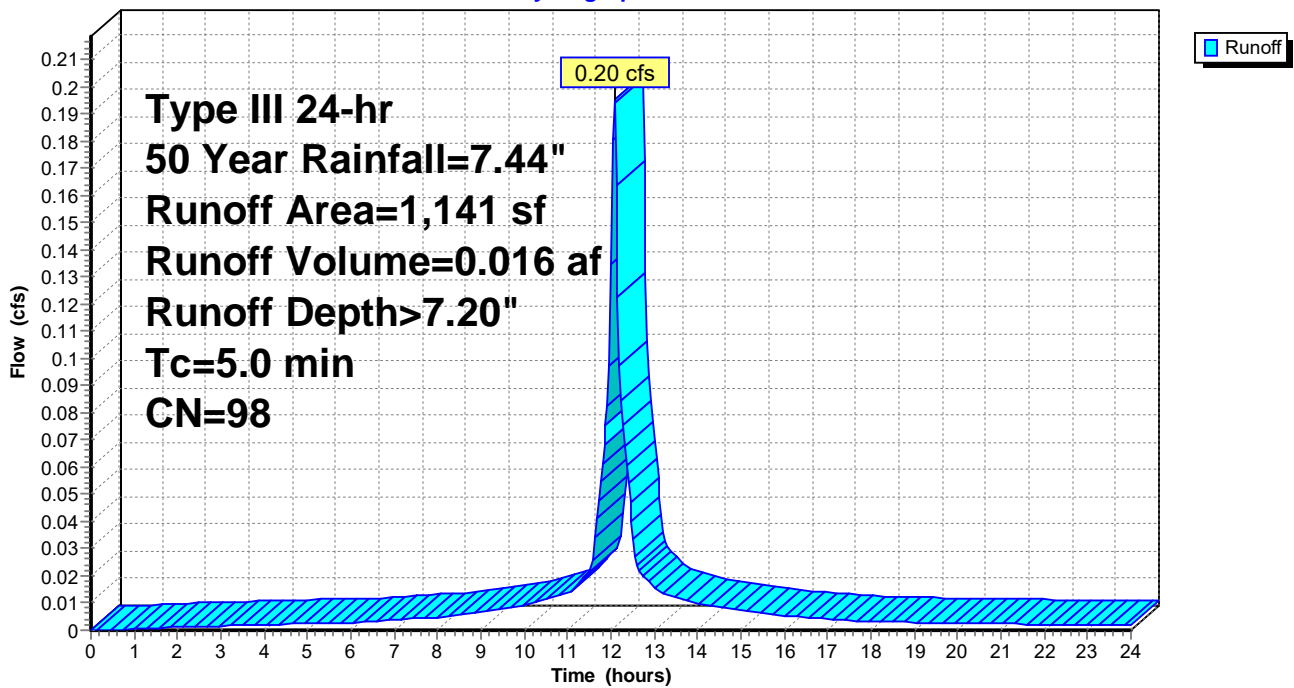
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.44"

	Area (sf)	CN	Description
*	878	98	Building
*	237	98	Driveway/Parking
*	26	98	Walk
	1,141	98	Weighted Average
	1,141		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

**Subcatchment 6S: Areas not Routed to Retention (Impervious)**

Hydrograph



**1673CombinedBasin1**

Type III 24-hr 50 Year Rainfall=7.44"

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**Summary for Pond 1P: 24" Concrete Galleries**

Inflow Area = 0.036 ac, 100.00% Impervious, Inflow Depth > 7.20" for 50 Year event  
 Inflow = 0.27 cfs @ 12.07 hrs, Volume= 0.022 af  
 Outflow = 0.23 cfs @ 12.16 hrs, Volume= 0.010 af, Atten= 14%, Lag= 5.5 min  
 Primary = 0.23 cfs @ 12.16 hrs, Volume= 0.010 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs / 3  
 Peak Elev= 4.13' @ 12.16 hrs Surf.Area= 324 sf Storage= 516 cf

Plug-Flow detention time= 286.2 min calculated for 0.010 af (46% of inflow)  
 Center-of-Mass det. time= 145.2 min ( 886.1 - 740.9 )

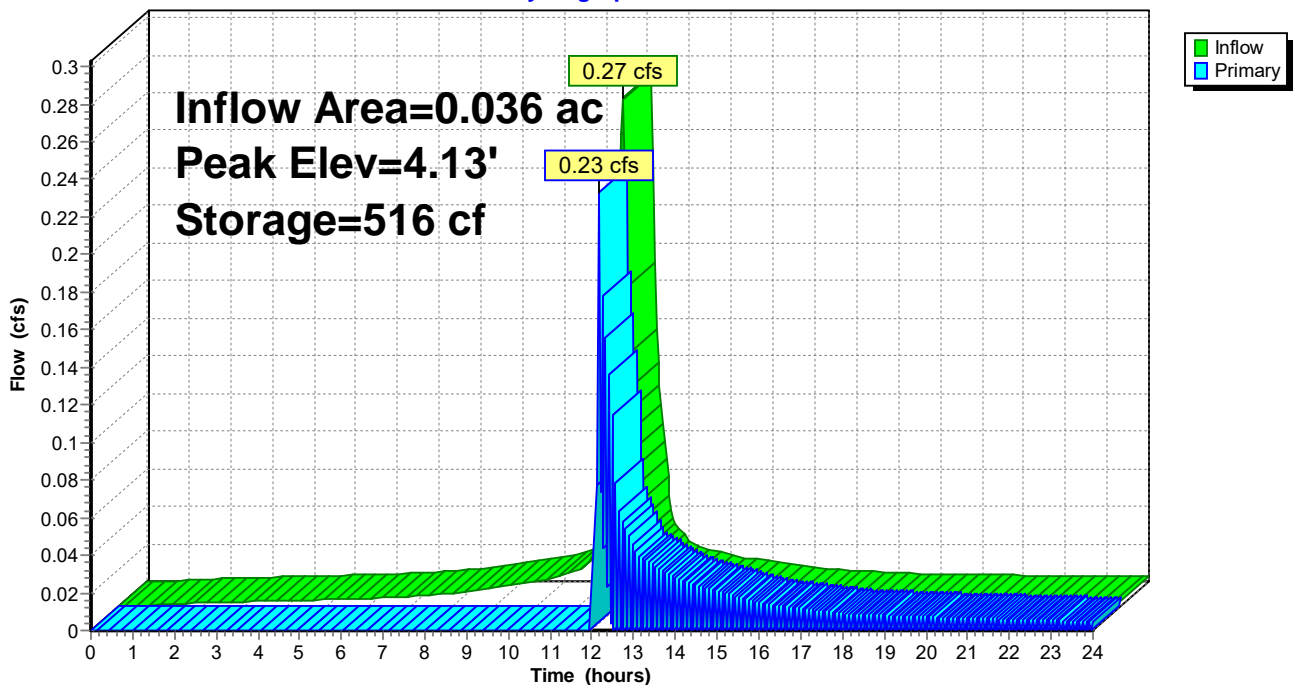
Volume	Invert	Avail.Storage	Storage Description
#1	2.00'	88 cf	<b>18.00'W x 18.00'L x 2.00'H Stone</b> 648 cf Overall - 428 cf Embedded = 220 cf x 40.0% Voids
#2	2.00'	428 cf	<b>16.00'W x 16.00'L x 1.67'H 24" Concrete Galleries</b> Inside #1
		516 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	4.00'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.21 cfs @ 12.16 hrs HW=4.12' (Free Discharge)  
 ↑ **1=Orifice/Grate** (Weir Controls 0.21 cfs @ 1.13 fps)

**Pond 1P: 24" Concrete Galleries**

Hydrograph

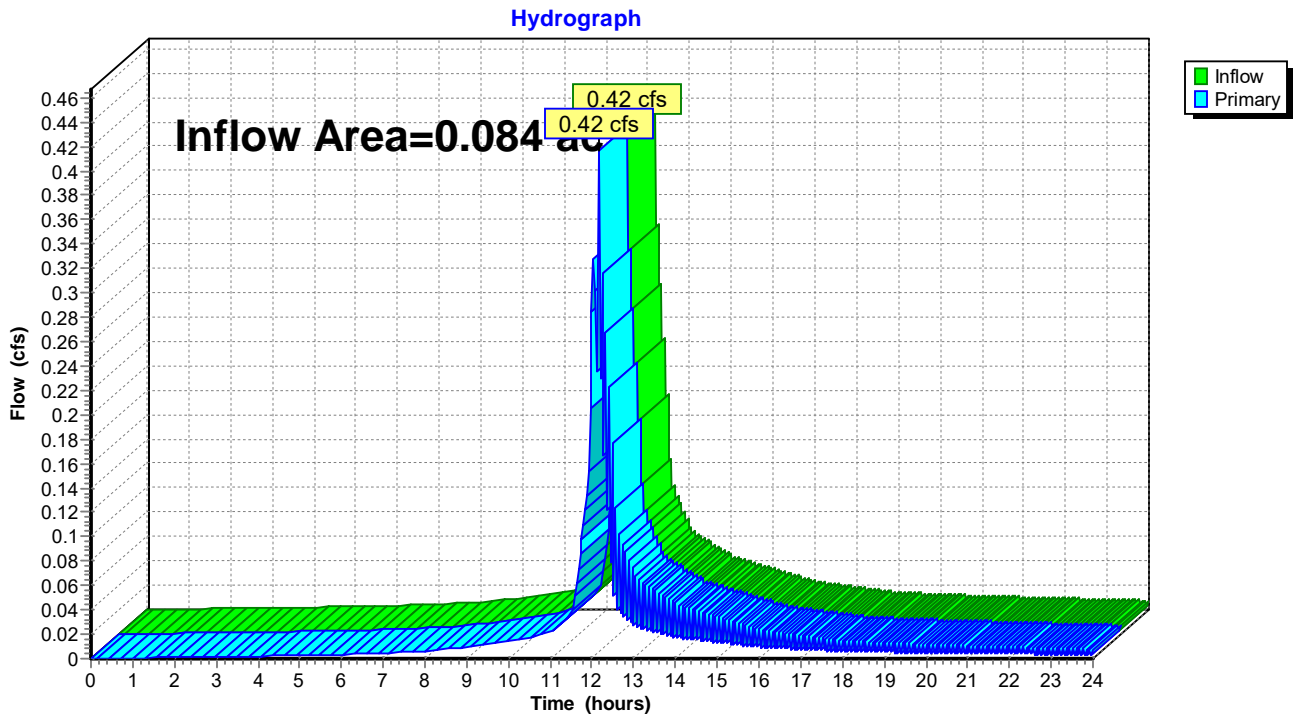


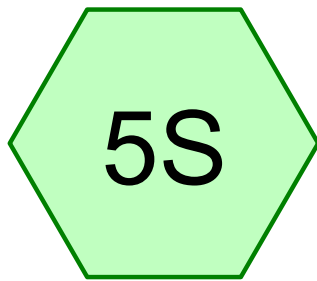
### Summary for Link 4L: Combined Hydrograph

Inflow Area = 0.084 ac, 74.25% Impervious, Inflow Depth > 5.11" for 50 Year event  
Inflow = 0.42 cfs @ 12.16 hrs, Volume= 0.036 af  
Primary = 0.42 cfs @ 12.16 hrs, Volume= 0.036 af, Atten= 0%, Lag= 0.0 min

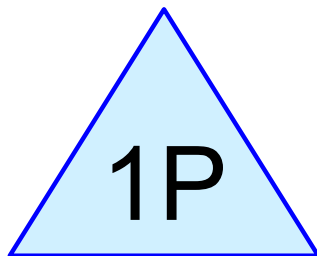
Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

### Link 4L: Combined Hydrograph

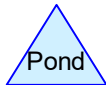
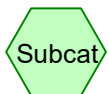




Areas Routed to  
Retention



24" Concrete Galleries



**Routing Diagram for 1673DischargeBasin1**  
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**1673DischargeBasin1**

Type III 24-hr 50 Year Rainfall=7.54"

Prepared by Fairfield County Engineering LLC

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**Summary for Subcatchment 5S: Areas Routed to Retention**

Runoff = 0.27 cfs @ 12.07 hrs, Volume= 0.022 af, Depth= 7.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.54"

	Area (sf)	CN	Description
*	1,581	98	Portion of Driveway/Parking
	1,581		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					<b>Direct Entry, Direct</b>

**1673DischargeBasin1**

Type III 24-hr 50 Year Rainfall=7.54"

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**Hydrograph for Subcatchment 5S: Areas Routed to Retention**

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	43.20	7.54	7.30	0.00
0.80	0.06	0.00	0.00	44.00	7.54	7.30	0.00
1.60	0.12	0.02	0.00	44.80	7.54	7.30	0.00
2.40	0.18	0.06	0.00	45.60	7.54	7.30	0.00
3.20	0.25	0.11	0.00	46.40	7.54	7.30	0.00
4.00	0.32	0.16	0.00	47.20	7.54	7.30	0.00
4.80	0.41	0.23	0.00	48.00	7.54	7.30	0.00
5.60	0.50	0.31	0.00	48.80	7.54	7.30	0.00
6.40	0.59	0.40	0.00	49.60	7.54	7.30	0.00
7.20	0.71	0.52	0.01	50.40	7.54	7.30	0.00
8.00	0.86	0.66	0.01	51.20	7.54	7.30	0.00
8.80	1.04	0.83	0.01	52.00	7.54	7.30	0.00
9.60	1.28	1.07	0.01	52.80	7.54	7.30	0.00
10.40	1.59	1.37	0.02	53.60	7.54	7.30	0.00
11.20	2.01	1.78	0.02	54.40	7.54	7.30	0.00
12.00	3.77	3.54	<b>0.19</b>	55.20	7.54	7.30	0.00
12.80	5.53	5.29	<b>0.03</b>	56.00	7.54	7.30	0.00
13.60	5.95	5.71	0.02	56.80	7.54	7.30	0.00
14.40	6.26	6.02	0.01	57.60	7.54	7.30	0.00
15.20	6.50	6.26	0.01	58.40	7.54	7.30	0.00
16.00	6.68	6.44	0.01	59.20	7.54	7.30	0.00
16.80	6.83	6.59	0.01	60.00	7.54	7.30	0.00
17.60	6.95	6.71	0.01				
18.40	7.04	6.81	0.00				
19.20	7.13	6.89	0.00				
20.00	7.22	6.98	0.00				
20.80	7.29	7.05	0.00				
21.60	7.36	7.12	0.00				
22.40	7.43	7.19	0.00				
23.20	7.49	7.25	0.00				
24.00	<b>7.54</b>	<b>7.30</b>	0.00				
24.80	7.54	7.30	0.00				
25.60	7.54	7.30	0.00				
26.40	7.54	7.30	0.00				
27.20	7.54	7.30	0.00				
28.00	7.54	7.30	0.00				
28.80	7.54	7.30	0.00				
29.60	7.54	7.30	0.00				
30.40	7.54	7.30	0.00				
31.20	7.54	7.30	0.00				
32.00	7.54	7.30	0.00				
32.80	7.54	7.30	0.00				
33.60	7.54	7.30	0.00				
34.40	7.54	7.30	0.00				
35.20	7.54	7.30	0.00				
36.00	7.54	7.30	0.00				
36.80	7.54	7.30	0.00				
37.60	7.54	7.30	0.00				
38.40	7.54	7.30	0.00				
39.20	7.54	7.30	0.00				
40.00	7.54	7.30	0.00				
40.80	7.54	7.30	0.00				
41.60	7.54	7.30	0.00				
42.40	7.54	7.30	0.00				

# 1673DischargeBasin1

Type III 24-hr 50 Year Rainfall=7.54"

Prepared by Fairfield County Engineering LLC

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## Summary for Pond 1P: 24" Concrete Galleries

Inflow Area = 0.036 ac, 100.00% Impervious, Inflow Depth = 7.30" for 50 Year event  
Inflow = 0.27 cfs @ 12.07 hrs, Volume= 0.022 af  
Outflow = 0.02 cfs @ 13.20 hrs, Volume= 0.022 af, Atten= 92%, Lag= 67.7 min  
Discarded = 0.01 cfs @ 8.16 hrs, Volume= 0.021 af  
Primary = 0.01 cfs @ 13.20 hrs, Volume= 0.001 af

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.04 hrs / 3  
Peak Elev= 4.02' @ 13.20 hrs Surf.Area= 324 sf Storage= 516 cf

Plug-Flow detention time= 627.8 min calculated for 0.022 af (100% of inflow)  
Center-of-Mass det. time= 628.0 min ( 1,369.1 - 741.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	2.00'	88 cf	<b>18.00'W x 18.00'L x 2.00'H Stone</b> 648 cf Overall - 428 cf Embedded = 220 cf x 40.0% Voids
#2	2.00'	428 cf	<b>16.00'W x 16.00'L x 1.67'H 24" Concrete Galleries</b> Inside #1
		516 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	4.00'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#2	Discarded	2.00'	<b>0.890 in/hr Exfiltration over Horizontal area</b>

**Discarded OutFlow** Max=0.01 cfs @ 8.16 hrs HW=2.02' (Free Discharge)  
↑**2=Exfiltration** (Exfiltration Controls 0.01 cfs)

**Primary OutFlow** Max=0.01 cfs @ 13.20 hrs HW=4.02' (Free Discharge)  
↑**1=Orifice/Grate** (Weir Controls 0.01 cfs @ 0.46 fps)

**1673DischargeBasin1**

Type III 24-hr 50 Year Rainfall=7.54"

Prepared by Fairfield County Engineering LLC

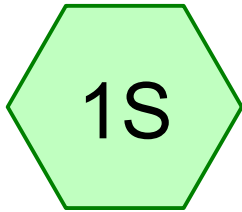
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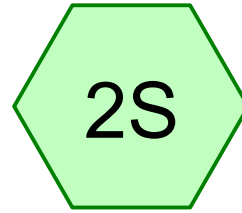
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**Hydrograph for Pond 1P: 24" Concrete Galleries**

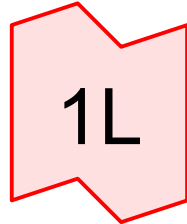
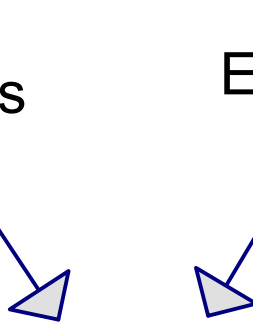
Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	2.00	0.00	0.00	0.00
2.00	0.00	1	2.00	0.00	0.00	0.00
4.00	0.00	2	2.01	0.00	0.00	0.00
6.00	0.00	3	2.01	0.00	0.00	0.00
8.00	0.01	5	2.02	0.01	<b>0.01</b>	0.00
10.00	0.01	28	2.10	0.01	<b>0.01</b>	0.00
12.00	<b>0.19</b>	<b>225</b>	<b>2.79</b>	<b>0.01</b>	0.01	<b>0.00</b>
14.00	<b>0.01</b>	<b>516</b>	<b>4.01</b>	<b>0.02</b>	0.01	<b>0.01</b>
16.00	0.01	516	4.00	0.01	0.01	0.00
18.00	0.00	510	3.95	0.01	0.01	0.00
20.00	0.00	491	3.81	0.01	0.01	0.00
22.00	0.00	466	3.65	0.01	0.01	0.00
24.00	0.00	438	3.54	0.01	0.01	0.00
26.00	0.00	390	3.38	0.01	0.01	0.00
28.00	0.00	342	3.21	0.01	0.01	0.00
30.00	0.00	294	3.04	0.01	0.01	0.00
32.00	0.00	246	2.87	0.01	0.01	0.00
34.00	0.00	198	2.70	0.01	0.01	0.00
36.00	0.00	150	2.53	0.01	0.01	0.00
38.00	0.00	102	2.36	0.01	0.01	0.00
40.00	0.00	54	2.19	0.01	0.01	0.00
42.00	0.00	6	2.02	0.01	0.01	0.00
44.00	0.00	0	2.00	0.00	0.00	0.00
46.00	0.00	0	2.00	0.00	0.00	0.00
48.00	0.00	0	2.00	0.00	0.00	0.00
50.00	0.00	0	2.00	0.00	0.00	0.00
52.00	0.00	0	2.00	0.00	0.00	0.00
54.00	0.00	0	2.00	0.00	0.00	0.00
56.00	0.00	0	2.00	0.00	0.00	0.00
58.00	0.00	0	2.00	0.00	0.00	0.00
60.00	0.00	0	2.00	0.00	0.00	0.00



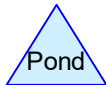
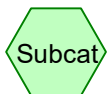
Existing Conditions  
(Impervious)



Existing Conditions  
(Lawn)



Combined Hydrograph



**Routing Diagram for 1673ExistingBasin2**  
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**1673ExistingBasin2**

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Type III 24-hr 50 Year Rainfall=7.54"

Printed 3/9/2021

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**Summary for Subcatchment 1S: Existing Conditions (Impervious)**

Runoff = 0.69 cfs @ 12.07 hrs, Volume= 0.053 af, Depth> 6.70"

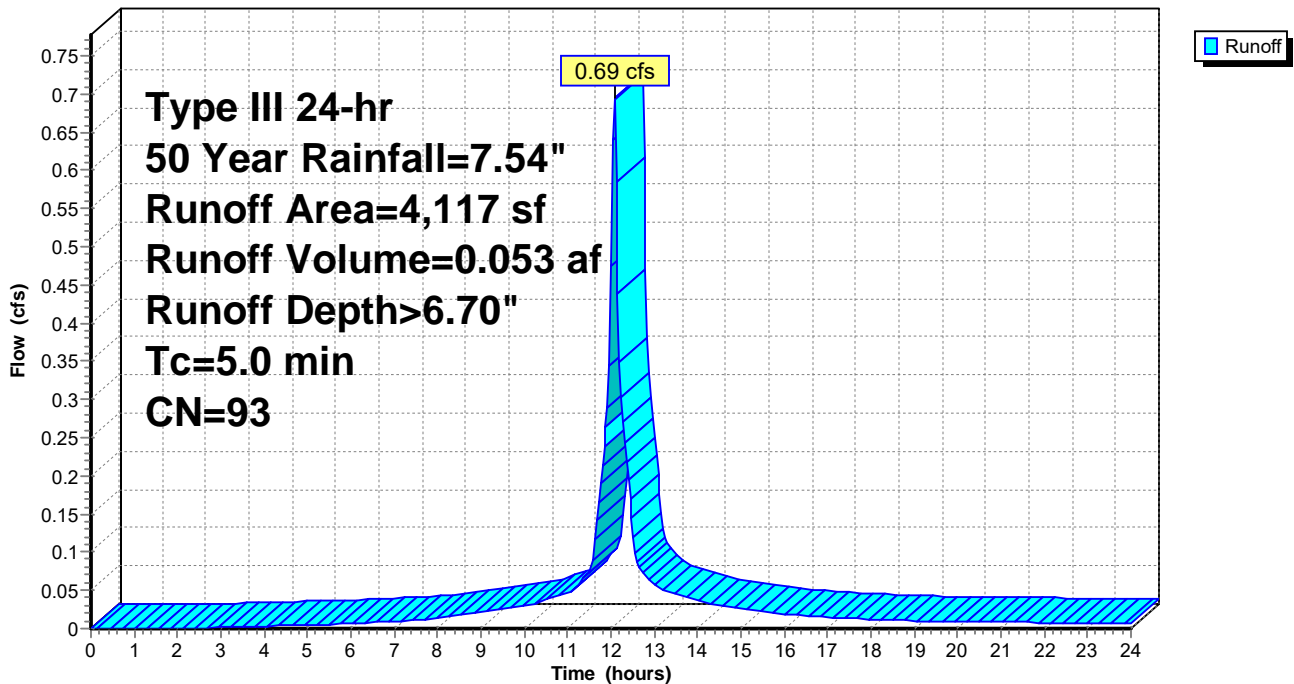
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.54"

	Area (sf)	CN	Description
*	215	98	Buildings
*	2,863	91	Dirt Parking
*	49	91	Deck
*	530	98	Asphalt Area
*	460	98	Garage
			<hr/>
	4,117	93	Weighted Average
	2,912		70.73% Pervious Area
	1,205		29.27% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

**Subcatchment 1S: Existing Conditions (Impervious)**

Hydrograph



**1673ExistingBasin2**

Type III 24-hr 50 Year Rainfall=7.54"

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**Summary for Subcatchment 2S: Existing Conditions (Lawn)**

Runoff = 0.65 cfs @ 12.10 hrs, Volume= 0.050 af, Depth> 5.65"

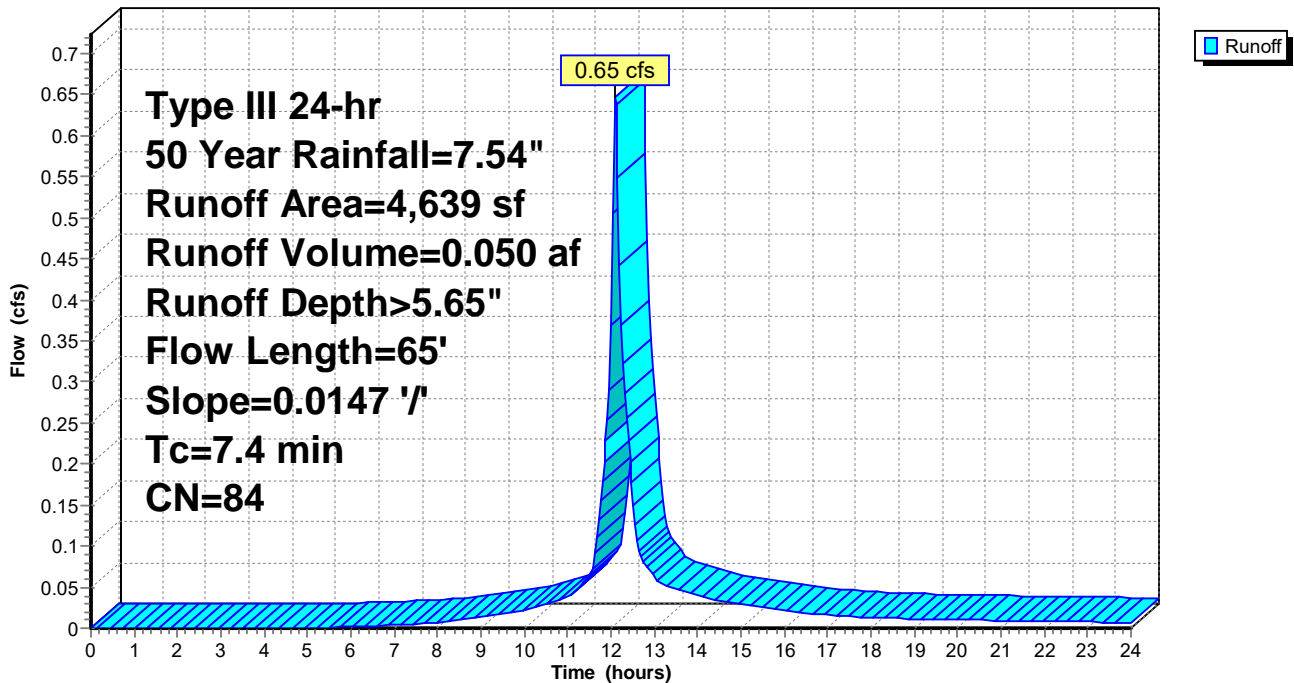
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.54"

Area (sf)	CN	Description
4,639	84	50-75% Grass cover, Fair, HSG D
4,639		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
7.4	65	0.0147	0.15		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.64"

**Subcatchment 2S: Existing Conditions (Lawn)**

Hydrograph

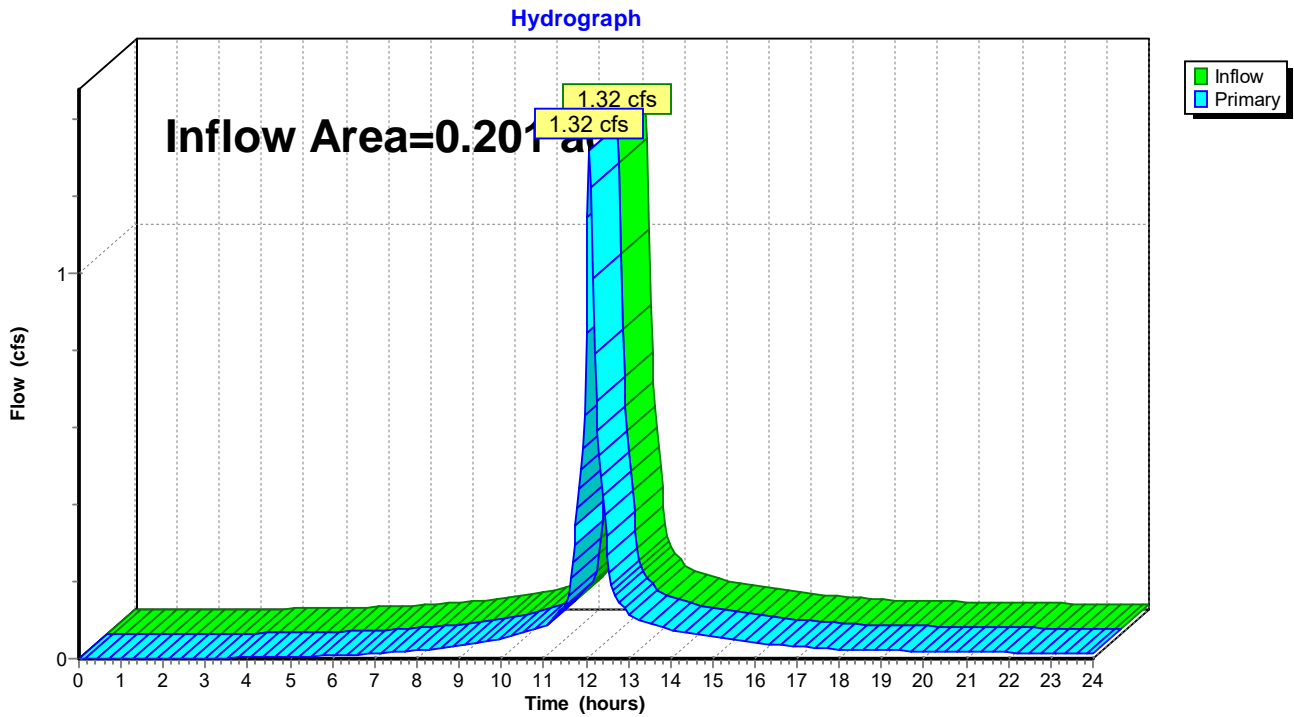


### Summary for Link 1L: Combined Hydrograph

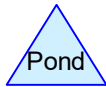
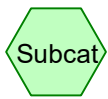
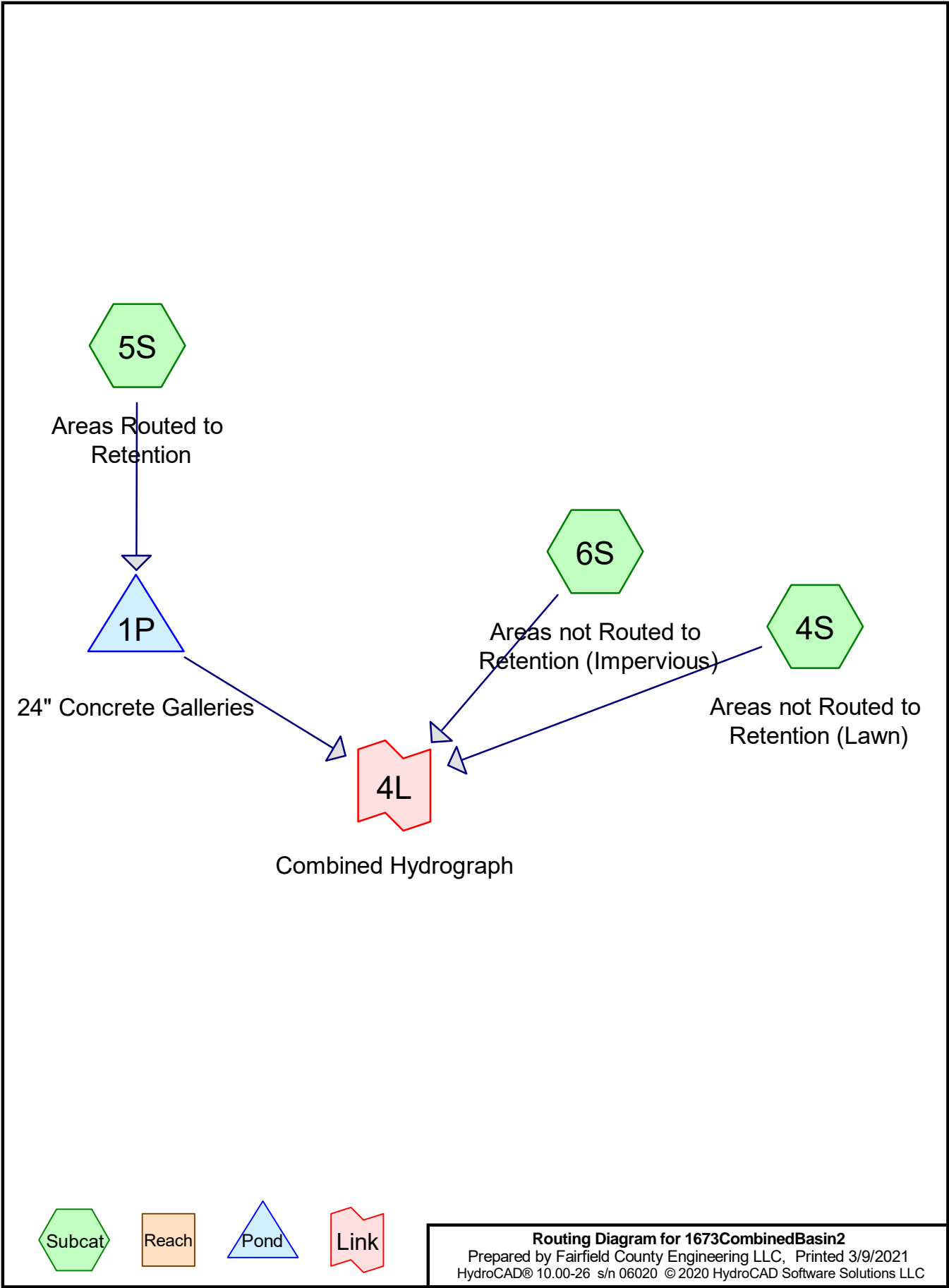
Inflow Area = 0.201 ac, 13.76% Impervious, Inflow Depth > 6.14" for 50 Year event  
Inflow = 1.32 cfs @ 12.09 hrs, Volume= 0.103 af  
Primary = 1.32 cfs @ 12.09 hrs, Volume= 0.103 af, Atten= 0%, Lag= 0.0 min

Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

### Link 1L: Combined Hydrograph







**Routing Diagram for 1673CombinedBasin2**  
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**1673CombinedBasin2**

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Type III 24-hr 50 Year Rainfall=7.44"

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**Summary for Subcatchment 4S: Areas not Routed to Retention (Lawn)**

Runoff = 0.25 cfs @ 12.19 hrs, Volume= 0.024 af, Depth> 5.55"

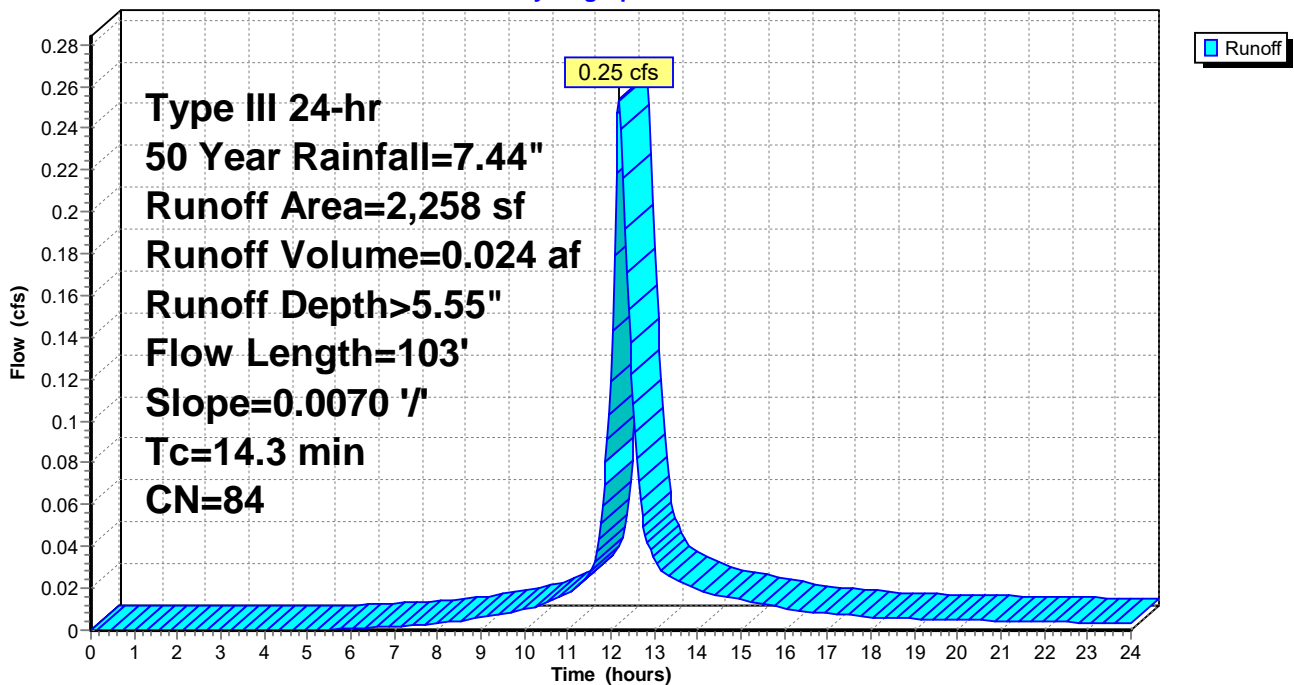
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.44"

Area (sf)	CN	Description
2,258	84	50-75% Grass cover, Fair, HSG D
2,258		100.00% Pervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
14.3	103	0.0070	0.12		<b>Sheet Flow,</b> Grass: Short n= 0.150 P2= 3.64"

**Subcatchment 4S: Areas not Routed to Retention (Lawn)**

Hydrograph



**Summary for Subcatchment 5S: Areas Routed to Retention**

Runoff = 0.74 cfs @ 12.07 hrs, Volume= 0.059 af, Depth> 7.20"

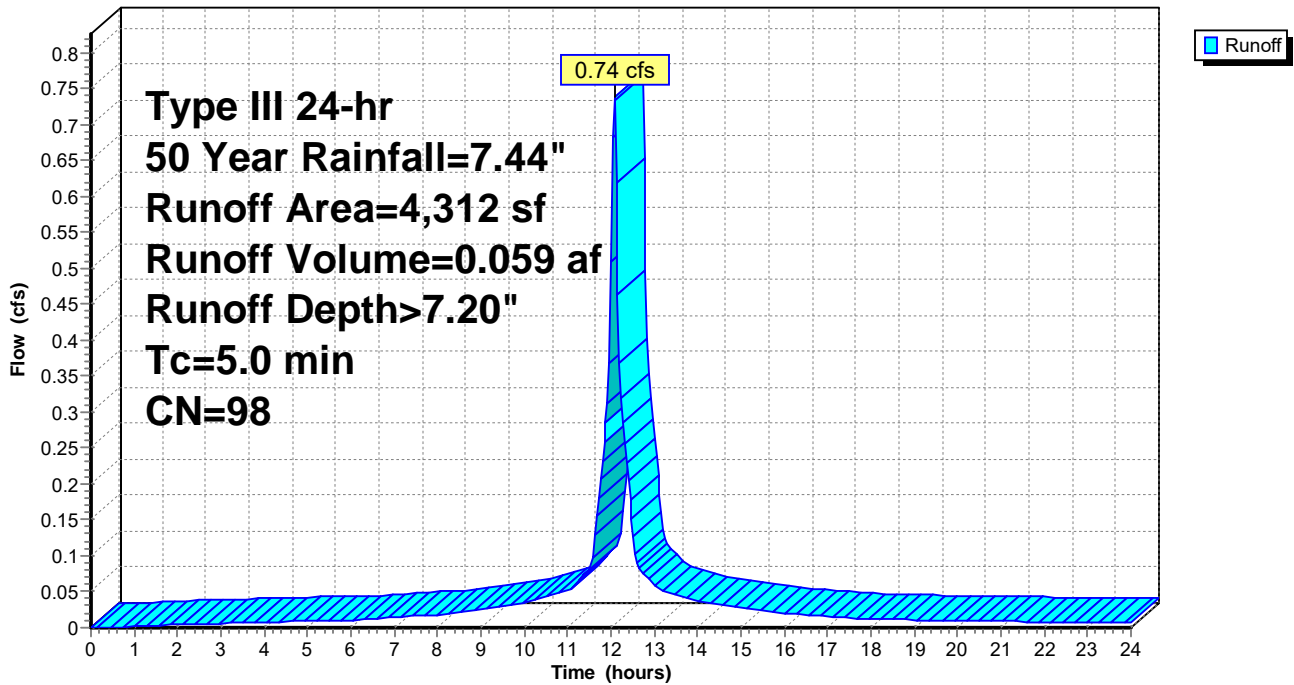
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.44"

	Area (sf)	CN	Description
*	1,673	98	portion of Building roof
*	2,639	98	Driveway
	4,312	98	Weighted Average
	4,312		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

**Subcatchment 5S: Areas Routed to Retention**

Hydrograph



**Summary for Subcatchment 6S: Areas not Routed to Retention (Impervious)**

Runoff = 0.34 cfs @ 12.07 hrs, Volume= 0.027 af, Depth> 7.08"

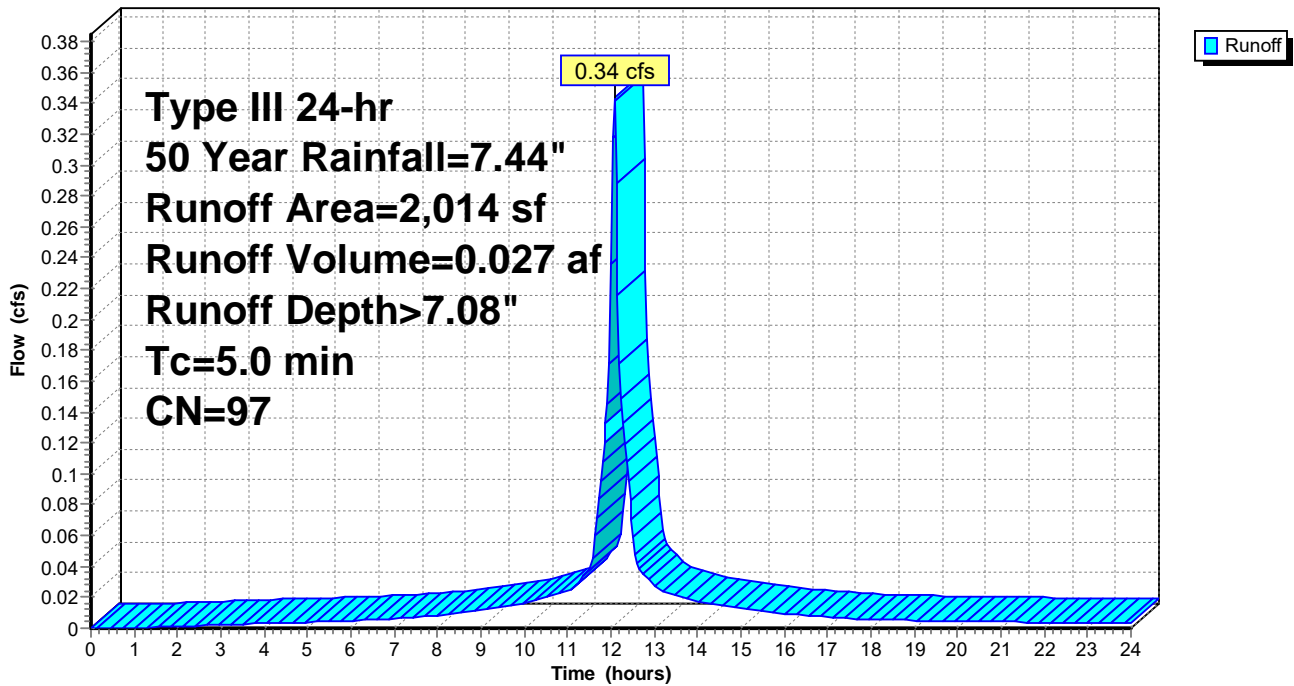
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs  
 Type III 24-hr 50 Year Rainfall=7.44"

	Area (sf)	CN	Description
*	1,789	98	Building
*	225	91	Decks/stairs
	2,014	97	Weighted Average
	225		11.17% Pervious Area
	1,789		88.83% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, Direct

**Subcatchment 6S: Areas not Routed to Retention (Impervious)**

Hydrograph



**1673CombinedBasin2**

Type III 24-hr 50 Year Rainfall=7.44"

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**Summary for Pond 1P: 24" Concrete Galleries**

Inflow Area = 0.099 ac, 100.00% Impervious, Inflow Depth > 7.20" for 50 Year event  
 Inflow = 0.74 cfs @ 12.07 hrs, Volume= 0.059 af  
 Outflow = 0.74 cfs @ 12.07 hrs, Volume= 0.042 af, Atten= 0%, Lag= 0.0 min  
 Primary = 0.74 cfs @ 12.07 hrs, Volume= 0.042 af

Routing by Stor-Ind method, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs / 3  
 Peak Elev= 4.61' @ 12.07 hrs Surf.Area= 476 sf Storage= 766 cf

Plug-Flow detention time= 182.7 min calculated for 0.042 af (70% of inflow)  
 Center-of-Mass det. time= 88.0 min ( 828.9 - 740.9 )

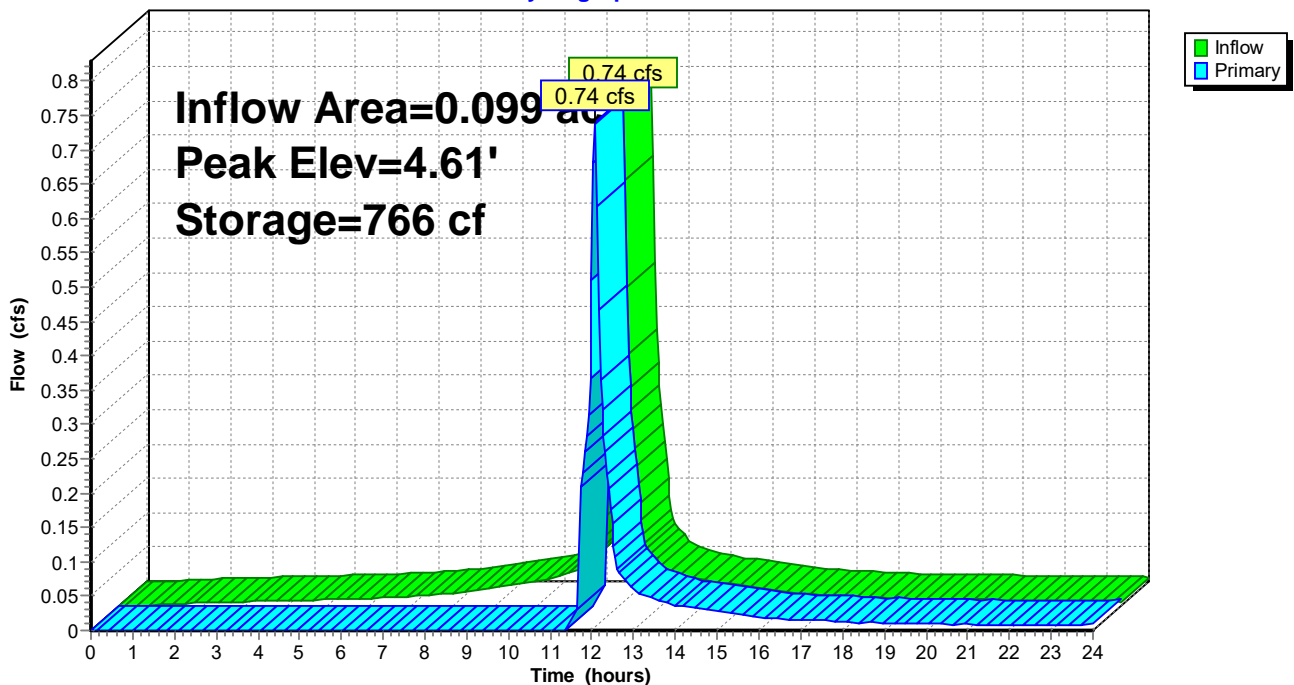
Volume	Invert	Avail.Storage	Storage Description
#1	2.00'	124 cf	<b>14.00'W x 34.00'L x 2.00'H Stone</b> 952 cf Overall - 641 cf Embedded = 311 cf x 40.0% Voids
#2	2.00'	641 cf	<b>12.00'W x 32.00'L x 1.67'H 24" Concrete Galleries</b> Inside #1
		766 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	4.00'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads

**Primary OutFlow** Max=0.73 cfs @ 12.07 hrs HW=4.59' (Free Discharge)  
 ↑1=Orifice/Grate (Orifice Controls 0.73 cfs @ 3.70 fps)

**Pond 1P: 24" Concrete Galleries**

Hydrograph

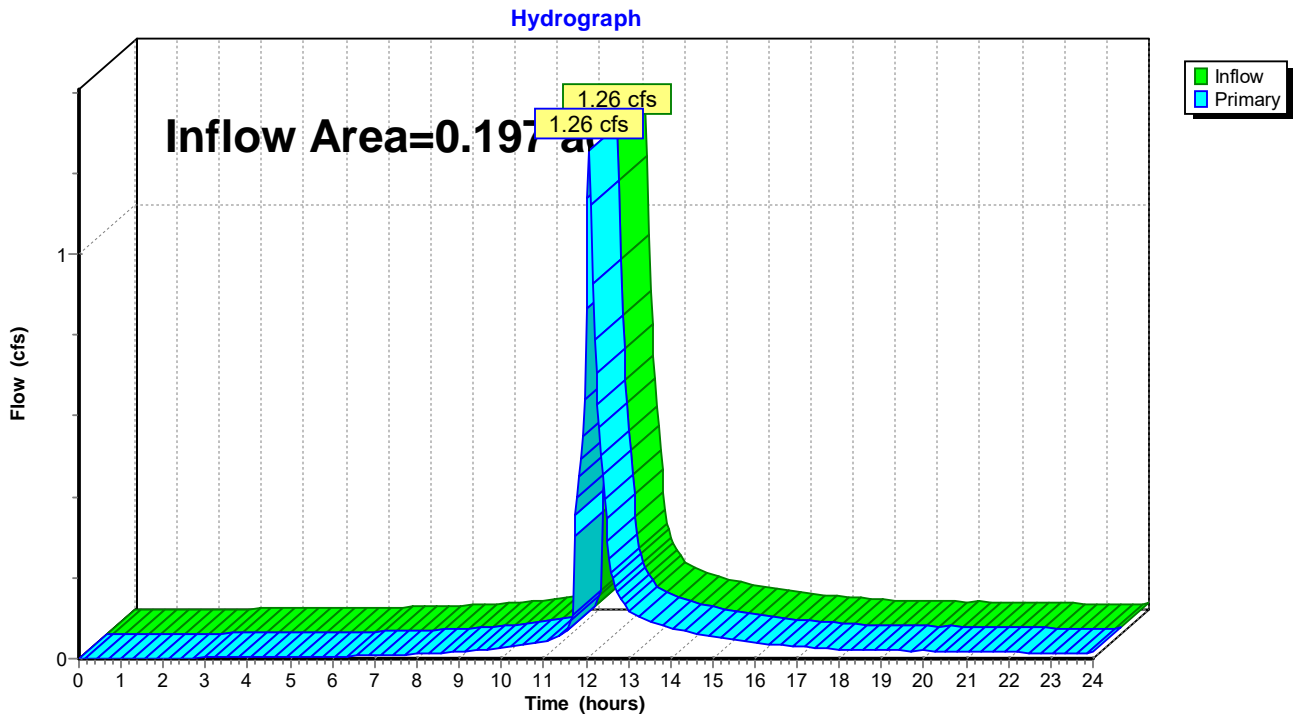


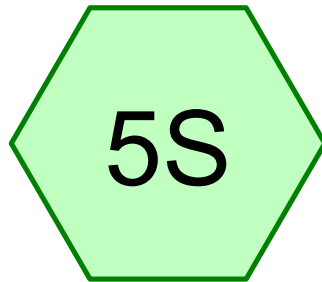
### Summary for Link 4L: Combined Hydrograph

Inflow Area = 0.197 ac, 71.07% Impervious, Inflow Depth > 5.65" for 50 Year event  
Inflow = 1.26 cfs @ 12.08 hrs, Volume= 0.093 af  
Primary = 1.26 cfs @ 12.08 hrs, Volume= 0.093 af, Atten= 0%, Lag= 0.0 min

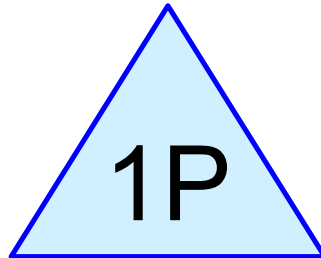
Primary outflow = Inflow, Time Span= 0.00-24.00 hrs, dt= 0.04 hrs

### Link 4L: Combined Hydrograph

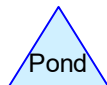
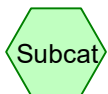




Areas Routed to  
Retention



24" Concrete Galleries



**Routing Diagram for 1673DischargeBasin2**  
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**1673DischargeBasin2**

Type III 24-hr 50 Year Rainfall=7.54"

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**Summary for Subcatchment 5S: Areas Routed to Retention**

Runoff = 0.75 cfs @ 12.07 hrs, Volume= 0.060 af, Depth= 7.30"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-60.00 hrs, dt= 0.04 hrs  
Type III 24-hr 50 Year Rainfall=7.54"

	Area (sf)	CN	Description
*	1,673	98	portion of Building roof
*	2,639	98	Driveway
	4,312	98	Weighted Average
	4,312		100.00% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					<b>Direct Entry, Direct</b>



**1673DischargeBasin2**

Type III 24-hr 50 Year Rainfall=7.54"

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**Hydrograph for Subcatchment 5S: Areas Routed to Retention**

Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)	Time (hours)	Precip. (inches)	Excess (inches)	Runoff (cfs)
0.00	0.00	0.00	0.00	43.20	7.54	7.30	0.00
0.80	0.06	0.00	0.00	44.00	7.54	7.30	0.00
1.60	0.12	0.02	0.00	44.80	7.54	7.30	0.00
2.40	0.18	0.06	0.01	45.60	7.54	7.30	0.00
3.20	0.25	0.11	0.01	46.40	7.54	7.30	0.00
4.00	0.32	0.16	0.01	47.20	7.54	7.30	0.00
4.80	0.41	0.23	0.01	48.00	7.54	7.30	0.00
5.60	0.50	0.31	0.01	48.80	7.54	7.30	0.00
6.40	0.59	0.40	0.01	49.60	7.54	7.30	0.00
7.20	0.71	0.52	0.02	50.40	7.54	7.30	0.00
8.00	0.86	0.66	0.02	51.20	7.54	7.30	0.00
8.80	1.04	0.83	0.03	52.00	7.54	7.30	0.00
9.60	1.28	1.07	0.03	52.80	7.54	7.30	0.00
10.40	1.59	1.37	0.04	53.60	7.54	7.30	0.00
11.20	2.01	1.78	0.06	54.40	7.54	7.30	0.00
12.00	3.77	3.54	<b>0.52</b>	55.20	7.54	7.30	0.00
12.80	5.53	5.29	<b>0.07</b>	56.00	7.54	7.30	0.00
13.60	5.95	5.71	0.05	56.80	7.54	7.30	0.00
14.40	6.26	6.02	0.03	57.60	7.54	7.30	0.00
15.20	6.50	6.26	0.03	58.40	7.54	7.30	0.00
16.00	6.68	6.44	0.02	59.20	7.54	7.30	0.00
16.80	6.83	6.59	0.02	60.00	7.54	7.30	0.00
17.60	6.95	6.71	0.01				
18.40	7.04	6.81	0.01				
19.20	7.13	6.89	0.01				
20.00	7.22	6.98	0.01				
20.80	7.29	7.05	0.01				
21.60	7.36	7.12	0.01				
22.40	7.43	7.19	0.01				
23.20	7.49	7.25	0.01				
24.00	<b>7.54</b>	<b>7.30</b>	0.01				
24.80	7.54	7.30	0.00				
25.60	7.54	7.30	0.00				
26.40	7.54	7.30	0.00				
27.20	7.54	7.30	0.00				
28.00	7.54	7.30	0.00				
28.80	7.54	7.30	0.00				
29.60	7.54	7.30	0.00				
30.40	7.54	7.30	0.00				
31.20	7.54	7.30	0.00				
32.00	7.54	7.30	0.00				
32.80	7.54	7.30	0.00				
33.60	7.54	7.30	0.00				
34.40	7.54	7.30	0.00				
35.20	7.54	7.30	0.00				
36.00	7.54	7.30	0.00				
36.80	7.54	7.30	0.00				
37.60	7.54	7.30	0.00				
38.40	7.54	7.30	0.00				
39.20	7.54	7.30	0.00				
40.00	7.54	7.30	0.00				
40.80	7.54	7.30	0.00				
41.60	7.54	7.30	0.00				
42.40	7.54	7.30	0.00				

## 1673DischargeBasin2

Type III 24-hr 50 Year Rainfall=7.54"

Prepared by Fairfield County Engineering LLC

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### Summary for Pond 1P: 24" Concrete Galleries

Inflow Area = 0.099 ac, 100.00% Impervious, Inflow Depth = 7.30" for 50 Year event  
Inflow = 0.75 cfs @ 12.07 hrs, Volume= 0.060 af  
Outflow = 0.83 cfs @ 12.09 hrs, Volume= 0.061 af, Atten= 0%, Lag= 1.2 min  
Discarded = 0.02 cfs @ 8.16 hrs, Volume= 0.042 af  
Primary = 0.81 cfs @ 12.09 hrs, Volume= 0.019 af

Routing by Stor-Ind method, Time Span= 0.00-60.00 hrs, dt= 0.04 hrs / 3  
Peak Elev= 4.70' @ 12.09 hrs Surf.Area= 476 sf Storage= 766 cf

Plug-Flow detention time= 237.7 min calculated for 0.060 af (100% of inflow)  
Center-of-Mass det. time= 250.5 min ( 991.6 - 741.0 )

Volume	Invert	Avail.Storage	Storage Description
#1	2.00'	124 cf	<b>14.00'W x 34.00'L x 2.00'H Stone</b> 952 cf Overall - 641 cf Embedded = 311 cf x 40.0% Voids
#2	2.00'	641 cf	<b>12.00'W x 32.00'L x 1.67'H 24" Concrete Galleries</b> Inside #1
		766 cf	Total Available Storage

Device	Routing	Invert	Outlet Devices
#1	Primary	4.00'	<b>6.0" Horiz. Orifice/Grate</b> C= 0.600 Limited to weir flow at low heads
#2	Discarded	2.00'	<b>1.700 in/hr Exfiltration over Horizontal area</b>

**Discarded OutFlow** Max=0.02 cfs @ 8.16 hrs HW=2.02' (Free Discharge)  
↑**2=Exfiltration** (Exfiltration Controls 0.02 cfs)

**Primary OutFlow** Max=0.71 cfs @ 12.09 hrs HW=4.57' (Free Discharge)  
↑**1=Orifice/Grate** (Orifice Controls 0.71 cfs @ 3.62 fps)

**1673DischargeBasin2***Type III 24-hr 50 Year Rainfall=7.54"*

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**Hydrograph for Pond 1P: 24" Concrete Galleries**

Time (hours)	Inflow (cfs)	Storage (cubic-feet)	Elevation (feet)	Outflow (cfs)	Discarded (cfs)	Primary (cfs)
0.00	0.00	0	2.00	0.00	0.00	0.00
2.00	0.00	2	2.00	0.00	0.00	0.00
4.00	0.01	3	2.01	0.01	0.01	0.00
6.00	0.01	5	2.01	0.01	0.01	0.00
8.00	0.02	8	2.02	0.02	<b>0.02</b>	0.00
10.00	0.04	67	2.16	0.02	<b>0.02</b>	0.00
12.00	<b>0.52</b>	<b>599</b>	<b>3.42</b>	<b>0.02</b>	0.02	<b>0.00</b>
14.00	<b>0.04</b>	<b>766</b>	<b>4.04</b>	<b>0.06</b>	0.02	<b>0.04</b>
16.00	0.02	766	4.00	0.02	0.02	0.00
18.00	0.01	746	3.90	0.02	0.02	0.00
20.00	0.01	690	3.64	0.02	0.02	0.00
22.00	0.01	620	3.47	0.02	0.02	0.00
24.00	0.01	538	3.28	0.02	0.02	0.00
26.00	0.00	405	2.96	0.02	0.02	0.00
28.00	0.00	270	2.64	0.02	0.02	0.00
30.00	0.00	135	2.32	0.02	0.02	0.00
32.00	0.00	3	2.01	0.01	0.01	0.00
34.00	0.00	0	2.00	0.00	0.00	0.00
36.00	0.00	0	2.00	0.00	0.00	0.00
38.00	0.00	0	2.00	0.00	0.00	0.00
40.00	0.00	0	2.00	0.00	0.00	0.00
42.00	0.00	0	2.00	0.00	0.00	0.00
44.00	0.00	0	2.00	0.00	0.00	0.00
46.00	0.00	0	2.00	0.00	0.00	0.00
48.00	0.00	0	2.00	0.00	0.00	0.00
50.00	0.00	0	2.00	0.00	0.00	0.00
52.00	0.00	0	2.00	0.00	0.00	0.00
54.00	0.00	0	2.00	0.00	0.00	0.00
56.00	0.00	0	2.00	0.00	0.00	0.00
58.00	0.00	0	2.00	0.00	0.00	0.00
60.00	0.00	0	2.00	0.00	0.00	0.00