

MIDDLEBOROUGH POLICE DEPARTMENT

WOOD STREET
MIDDLEBOROUGH, MA 02346

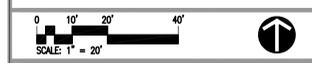
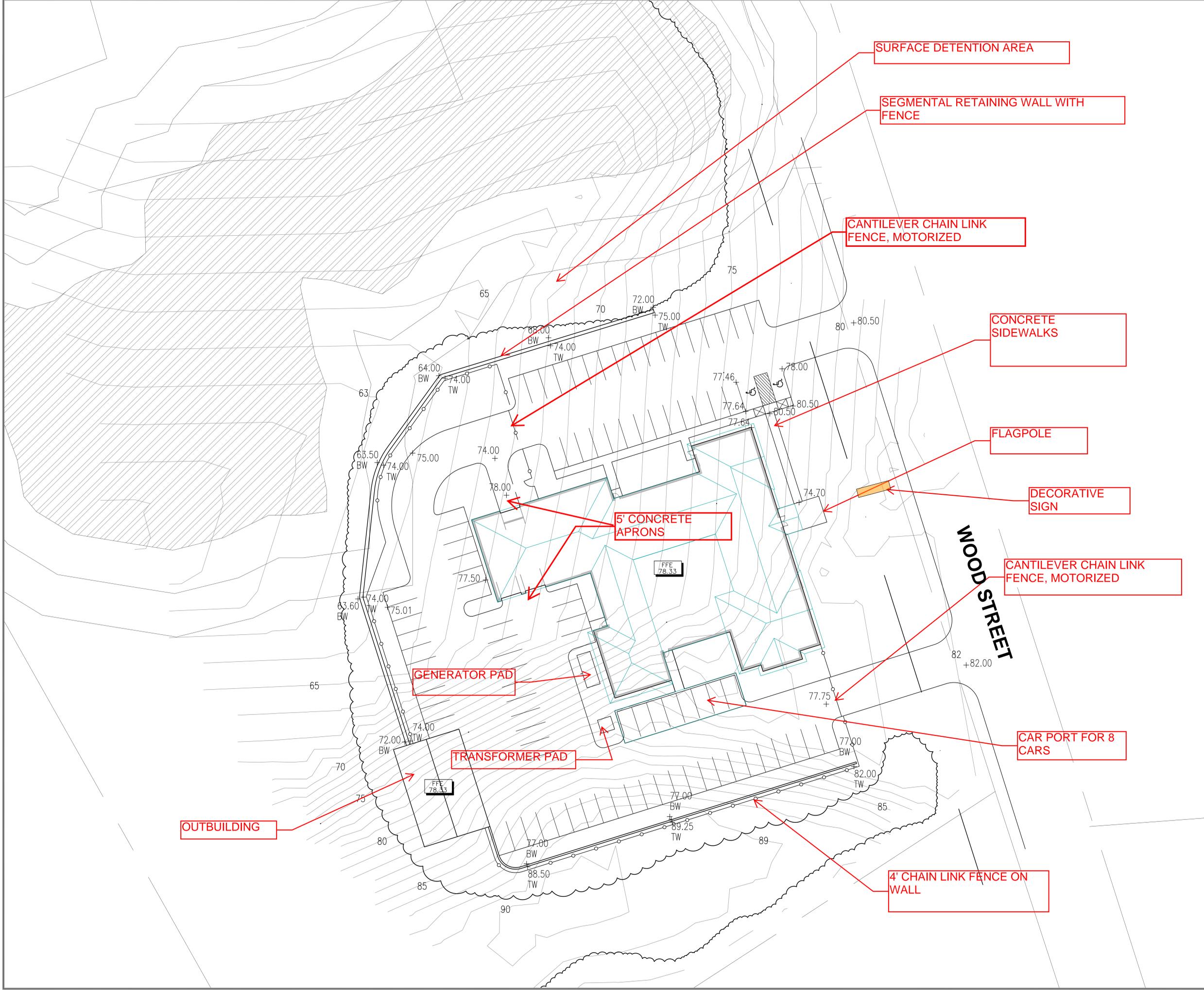


VOLUME 1 OF 1

SCHEMATIC DESIGN ESTIMATE

09/16/2015

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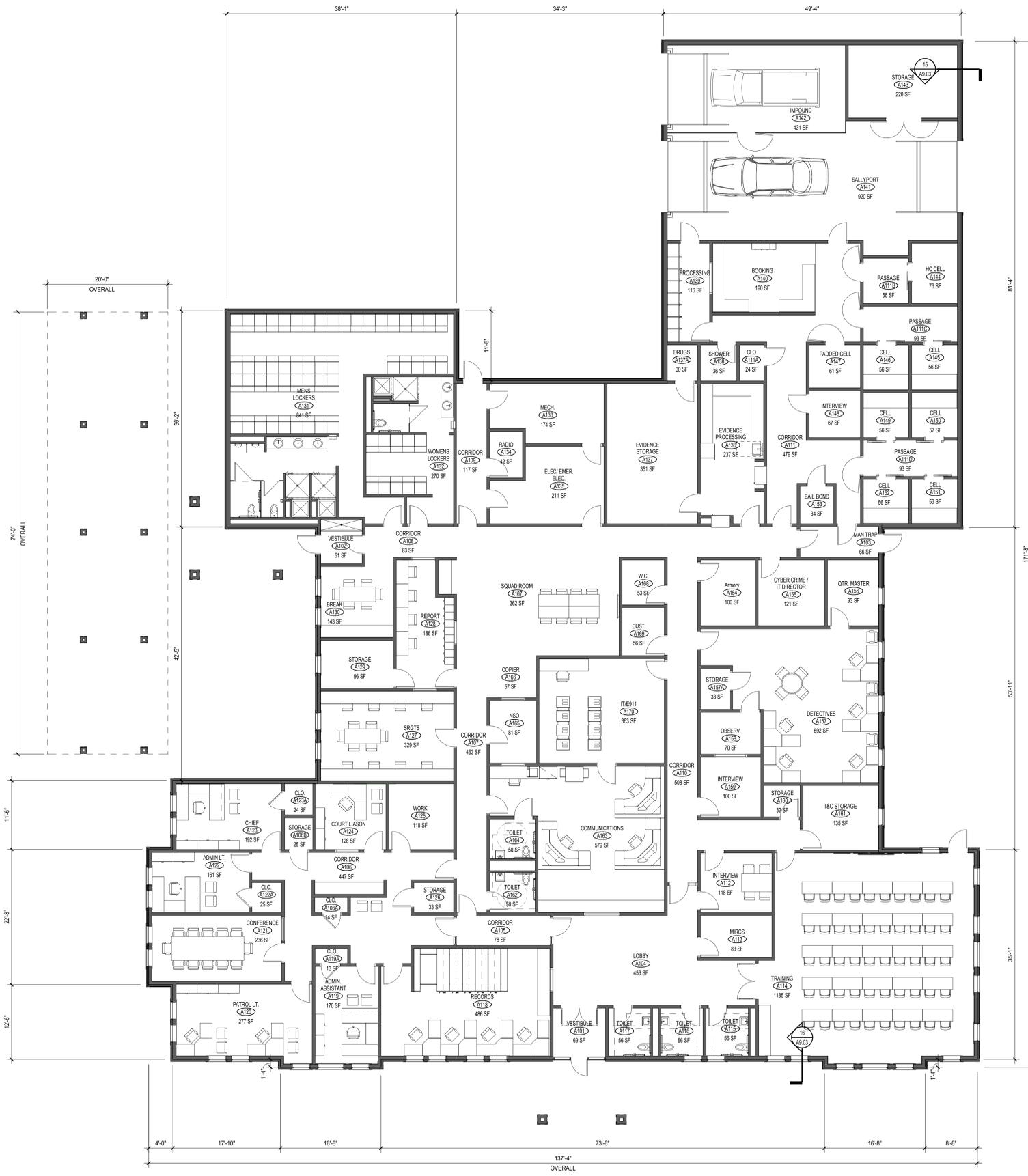
**MIDDLEBOROUGH
 POLICE**

**WOOD STREET
 MIDDLEBOROUGH, MA**

PROJECT NO.: ### DRAWN BY: DGM
SITE PLAN

DRAWING NO.:
L1.01

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1 MAIN LEVEL - MAIN BUILDING
1/8" = 1'-0"

FLOOR PLAN LEGEND

- FACE BRICK
- ▤ CONCRETE MASONRY
- ▥ METAL STUD AND GYPSUM BOARD WALL
- ⊙ DOOR NUMBER
- ⊙ COLUMN DETAIL
- ⊙ WINDOW TYPE
- ⊙ BUILDING SECTION
- ⊙ WALL SECTION
- ⊙ PLAN DETAIL
- ⊙ CASEWORK ELEVATION - REFER TO A11.00 DWG SERIES
- ⊙ INTERIOR ELEVATION - REFER TO A10.00 DWG SERIES
- ⊙ WALL TYPE
- △ REVISION MARK
- ROOM NAME
- ROOM NUMBER
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- HANDICAPPED ACCESSIBLE AREA OR EXIT
- AREA OF REFUGE OR AREA OF ASSEMBLY H.C. SEATING POSITION
- CABINET UNIT HEATER
- UNIT VENTILATOR
- SLAB DEPRESSION
- EXTENT OF ACCESS FLOORING

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DATE: 07/13/10	

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FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, AND GENERAL NOTES SEE SHEET R0.01

KEY PLAN

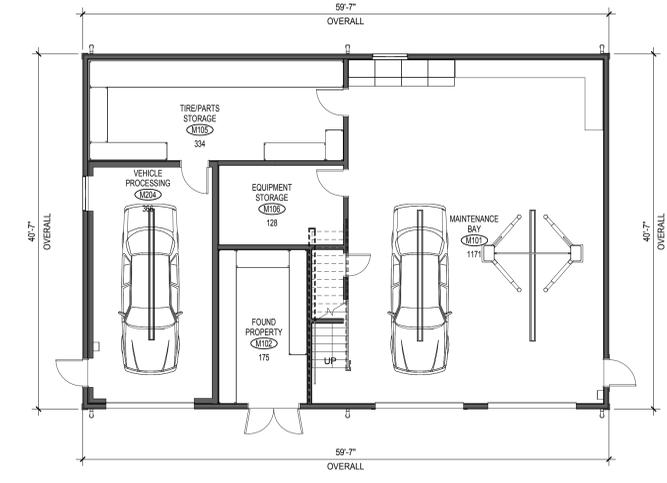
SCALE: 1/8" = 1'-0"

MIDDLEBOROUGH POLICE DEPARTMENT
WOOD STREET
MIDDLEBOROUGH, MA 02346

PROJECT NO.: 15036.00 DRAWN BY: SC

MAIN LEVEL FLOOR PLAN

DRAWING NO.: **A1.01**



2 MAIN LEVEL - AUXILIARY BUILDING
1/8" = 1'-0"

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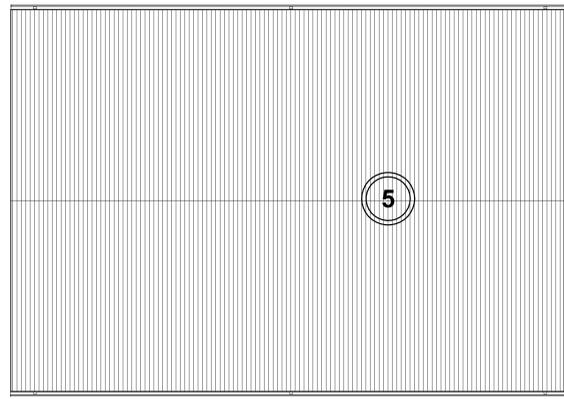


**MIDDLEBOROUGH
POLICE
DEPARTMENT**
WOOD STREET
MIDDLEBOROUGH, MA 02346

PROJECT NO.: 15036.00 DRAWN BY: SC

ROOF PLAN

DRAWING NO.:
A3.01



2 ROOF PLAN - AUXILIARY BUILDING
1/8" = 1'-0"

CONST. TYPES

- 1** ARCHITECTURAL ASPHALT SHINGLES ON 1 LAYER OF SYNTHETIC ROOF UNDERLAYMENT ON NOMINAL 5/16" VENTED NAILABLE COMPOSITE DECK ON A SEPARATE LAYER OF 1 1/2" POLYISO INSULATION ON VAPOR RETARDER ON SLOPED METAL DECK.
- 2** 060 MIL PVC MEMBRANE ON 1/4" ROOF COVER BOARD ON 1/4" PER FT. TAPERED INSULATION ON 2 1/2" OF RIGID INSULATION ON 2" OF RIGID INSULATION ON VAPOR RETARDER ON FLAT CONCRETE DECK.
- 3** ARCHITECTURAL ASPHALT SHINGLES ON 2 LAYERS OF SYNTHETIC ROOF UNDERLAYMENT ON NOMINAL 5/16" VENTED NAILABLE COMPOSITE DECK ON A SEPARATE LAYER OF 1 1/2" POLYISO INSULATION ON VAPOR RETARDER ON SLOPED METAL DECK.
- 4** 060 MIL PVC MEMBRANE ON 1/4" ROOF COVER BOARD ON 1/4" PER FT. TAPERED INSULATION ON 2 1/2" OF RIGID INSULATION ON 2" OF RIGID INSULATION ON VAPOR RETARDER ON FLAT METAL DECK.
- 5** STANDING SEAM METAL ROOF (BY METAL BUILDING SYSTEM FSB).

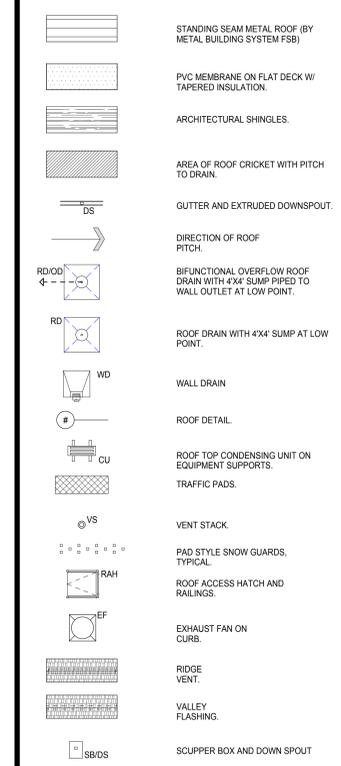
R-VALUE CALCULATIONS
ASPHALT SHINGLE ROOF

OUTSIDE AIR VALUE:	0.17
ASPHALT SHINGLES:	0.44
5" RIGID INSULATION:	30.6
INSIDE AIR VALUE:	0.61
R-VALUE:	31.82
U-TOTAL (1/R)	.031

R-VALUE CALCULATIONS
EPDM ROOF

OUTSIDE AIR VALUE:	0.17
PVC MEMBRANE:	0.33
1/4" ROOF COVER BOARD:	0.28
RIGID INSULATION - 5":	30.6
INSIDE AIR VALUE:	0.61
R-VALUE:	31.99
U-TOTAL (1/R)	.031

ROOF PLAN LEGEND



ROOF GENERAL NOTES

- ALL NOTES AND DIMENSIONS DESIGNATED AS TYPICAL APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
- CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AS DEFINED IN CONTRACT DOCUMENTS. PROCEEDING WITH WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AS BEING SUBSTANTIALLY AS SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE OF FINISHED WORK AND FOR THE SAME WORK, SHALL BE HELD RESPONSIBLE. STRUCTURAL INFORMATION ON ROOF DETAILS ARE DIAGRAMMATIC ONLY.
- ALL VERTICAL FLASHING HEIGHTS MUST BE A MINIMUM OF 8" (TYP.)
- SEAL ALL GUTTER JOINTS W/ 6" WIDE PEEL AND STICK EPDM TAPE
- CONTRACTOR TO FIELD VERIFY QUANTITY & LOCATION OF PLUMBING VENTS & FLASH IN ACCORDANCE W/ MANUFACTURER SPECIFICATIONS. (ALL VENT STACKS MUST EXTEND 24" ABOVE FINISH ROOF SURFACE)
- SIZE AND LOCATIONS OF EXHAUST FANS, MECHANICAL UNITS, VENTS STACKS, CONDENSER UNITS AND OTHER ROOF PENETRATIONS OF ROOF MOUNTED ITEMS ARE DIAGRAMMATIC ONLY. SEE M.E.P. DRAWINGS FOR QUANTITIES & LOCATIONS (TYP.)
- CONTRACTOR IS TO SURVEY THE ROOF DECKS TO VERIFY THAT SLOPES INDICATED ON PLANS ARE ACCURATE. NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY ADDITIONAL ROOFING OPERATIONS.
- ALTHOUGH FASCIA DIMENSIONS WILL VARY FROM ROOF AREA TO ROOF AREA, CONTRACTOR TO PROVIDE KILN DRIED WD. BLOCKING AS REQUIRED TO ENSURE CONTINUOUS GRAVEL STOP/ FASCIA AND/OR COPING DIMENSIONS FOR EACH INDIVIDUAL ROOF AREA (TYP.)
- ROOF DRAIN LOCATIONS ARE INDICATED DIAGRAMMATICALLY AND MUST BE COORDINATED IN THE FIELD W/ PLUMBING TO INSTALL NEW DRAINS @ LOWEST POSSIBLE POINT OF ROOF PITCH. BY PLUMBING FILED SUB-BIDDER (FSB)
- INSULATE ALL DRAIN BOWLS AND PIPES (TYP.) BY PLUMBING FILED SUB-BIDDER (FSB)
- STAGGER JOINTS BETWEEN LAYERS OF INSULATION (TYP.)
- PROVIDE CRICKET ON HIGH SIDE OF ALL ROOF TOP EQUIPMENT, SKYLIGHTS, AND ROOF HATCH CURBS (TYP.)
- KILN DRIED WOOD NAILERS SHALL BE SECURELY ANCHORED TO METAL DECK TO RESIST A FORCE OF 300 POUNDS PER LINEAR FOOT IN ANY DIRECTION (TYP.)
- ALL WOOD BLOCKING USED IN ROOF ASSEMBLIES SHALL BE KILN DRIED MATERIAL AND ALL JOINTS TO BE STAGGERED MINIMUM OF 12" (TYP.)
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE CONTINUOUS PERIMETER BLOCKING TO ALIGN WITH HIGH POINT OF INSULATION AT ALL CONDITIONS W/O PARAPETS (TYP.)
- ALL THRU-WALL FLASHING AT MASONRY WALL TRANSITIONS SHALL BE 2 PIECE 16 OZ. ZINC COATED COPPER (Z.C.C.) THRU-WALL SUPPLIED BY ROOFING CONTRACTOR AND INSTALLED BY MASON CONTRACTOR. 2ND PIECE: COUNTER FLASHING, SUPPLIED AND INSTALLED BY ROOFING CONTRACTOR. TYP.
- ALL 16 OZ. ZINC COATED COPPER (Z.C.C.) THRU-WALL FLASHING TO HAVE END DAMS W/ FULLY SOLDERED CORNERS AND BACK LEGS WHERE THRU-WALL FLASHING IS INTERRUPTED.
- ALL 16 OZ. ZINC COATED COPPER (Z.C.C.) THRU-WALL FLASHING IS CONTINUOUS W/ 6" OVERLAP AND SEALED W/ 3 SIZED BUTYL TAPE SEAMS TO FORM CONTINUOUS WATER TIGHT SURFACE.
- ALL THRU-WALL FLASHING MUST EXTEND MIN. 8" BEYOND INTERSECTING ROOFLINE.
- SEE STRUCTURAL DRAWINGS FOR EXACT LOCATION, SIZE DIMENSION, MATERIAL AND ARRANGEMENT OF BUILDING COMPONENTS. (TYP.)
- AT ROOF EDGE CONDITIONS WHERE THE DECK VARIES IN HEIGHT TO ENHANCE WATER MANAGEMENT, THE WOOD BLOCKING OR PARAPET MUST MAINTAIN A CONSTANT HORIZONTAL ELEVATION THAT COINCIDES WITH HIGH POINT ON THAT SAME ROOF UNLESS OTHERWISE NOTED.
- NO EQUIPMENT REQUIRING SERVICING SHALL BE LOCATED WITHIN 10'-0" OF THE EDGE OF THE ROOF UNLESS 42" HIGH FALL PROTECTION IS PROVIDED. TYP.
- AT SINGLE-PLY 1' ROOFS EXTEND ROOF MEMBRANE DOWN FACE OF PERIMETER WOOD BLOCKING.
- ON SHINGLE ROOFS EXTEND 6'-0" UP SLOPE SELF ADHERING SHEET UNDERLAYMENT AT ALL GAVE CONDITIONS AND 3'-0" AT ALL RAKE EDGES
- ON SHINGLE ROOFS EXTEND SELF ADHERING SHEET UNDERLAYMENT 3'-0" ALL AROUND PENETRATIONS.
- ON SHINGLE ROOFS EXTEND SELF ADHERING SHEET UNDERLAYMENT 18" ON BOTH SIDES OF RIDGE VENTS AND VALLEYS.
- CONTRACTORS RESPONSIBLE TO PROVIDE PITCH POCKETS AS REQUIRED BY INDIVIDUAL MECHANICAL UNITS. REFER TO APPLICABLE DETAIL.
- AT METAL DECK, THE MECHANICAL FASTENERS USED TO SECURE THE ROOF INSULATION ASSEMBLY TO THE METAL DECKS MUST PENETRATE ONLY 3/4" INTO THE TOP SURFACE OF FLUTES. ALL MECHANICAL FASTENERS THAT PENETRATE INTO THE BOTTOM FLUTE WILL BE REJECTED.
- INSTALL 2 ROWS OF PAD STYLE SNOW GUARDS @ 24" O.C. (STAGGERED) WHERE INDICATED. FIRST ROW TO START 18" FROM ROOF EDGE.
- ROOF CONTRACTOR TO PROVIDE THE CAST IRON DOWNSPOUT BOOTS WHICH ARE TO BE INSTALLED AND CONNECTED TO THE STORM DRAIN PIPE SYSTEM BY THE SITE CONTRACTOR.
- DE-ICING CABLES IN GUTTERS, DOWNSPOUTS & 10'-0" UP VALLEYS.
- INSTALL PEEL AND STICK EPDM TRANSITION STRIPS AROUND ALL ROOF PENETRATIONS AND AT ROOF EDGES CONDITIONS TO PROVIDE CONTINUOUS SEALED POLY VAPOR RETARDER ON AVE.
- REFER TO DETAIL 47/A3.04 FOR WORK AT ALL TAPED SEAMS AT VAPOR RETARDER JOINTS.

1 ROOF PLAN - MAIN BUILDING
1/8" = 1'-0"



FINISH LEGEND

	FIBER CEMENT SIDING SYSTEM
	SHINGLES
	PREFABRICATED BUILDING WALL PANELS
	PREFABRICATED BUILDING ROOF PANELS

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KEY PLAN

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



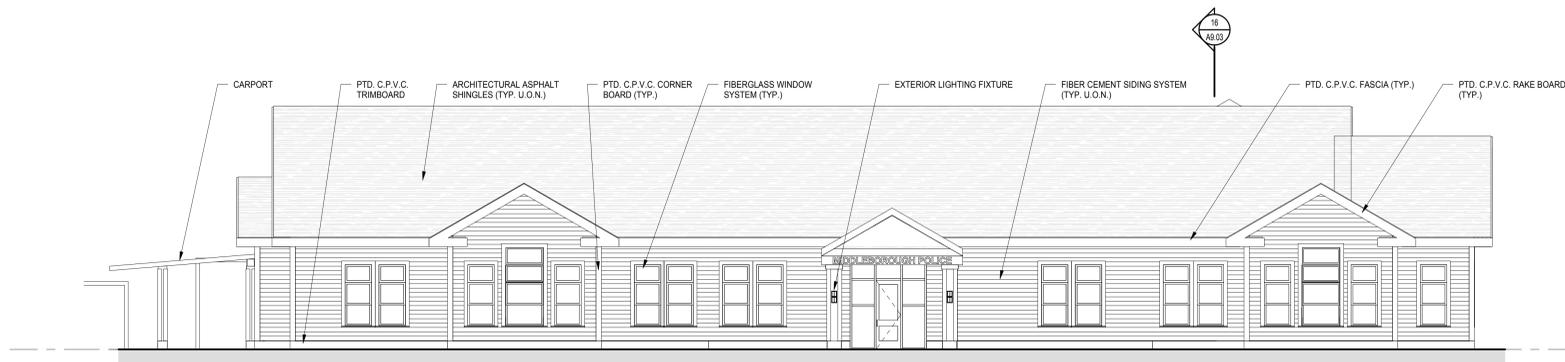
MIDDLEBOROUGH POLICE DEPARTMENT
WOOD STREET
MIDDLEBOROUGH, MA 02346

PROJECT NO.: 15036.00 DRAWN BY: Author

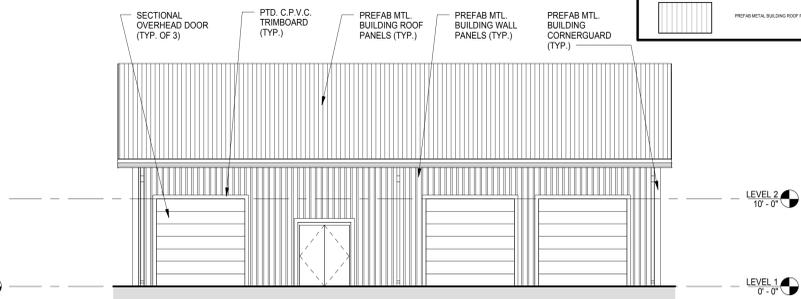
EXTERIOR ELEVATIONS I

DRAWING NO.: **A5.01**

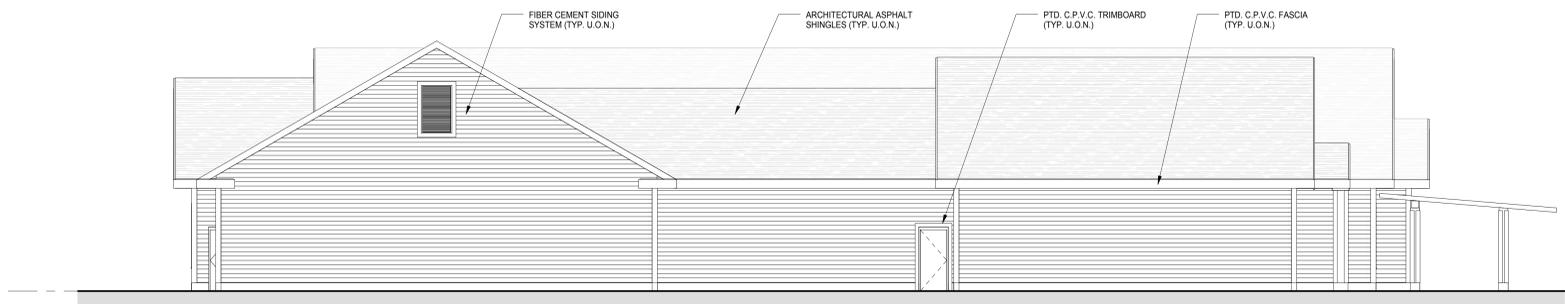
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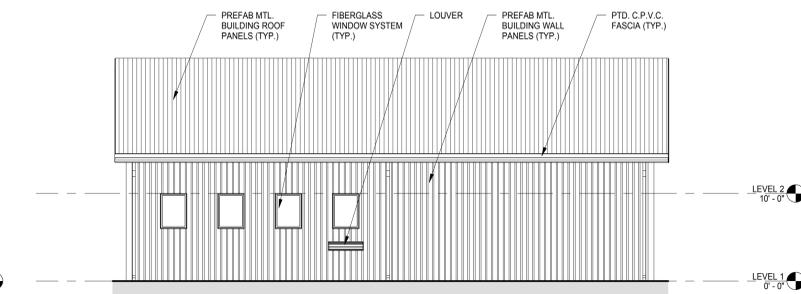
1 SOUTH ELEVATION
1/8" = 1'-0"



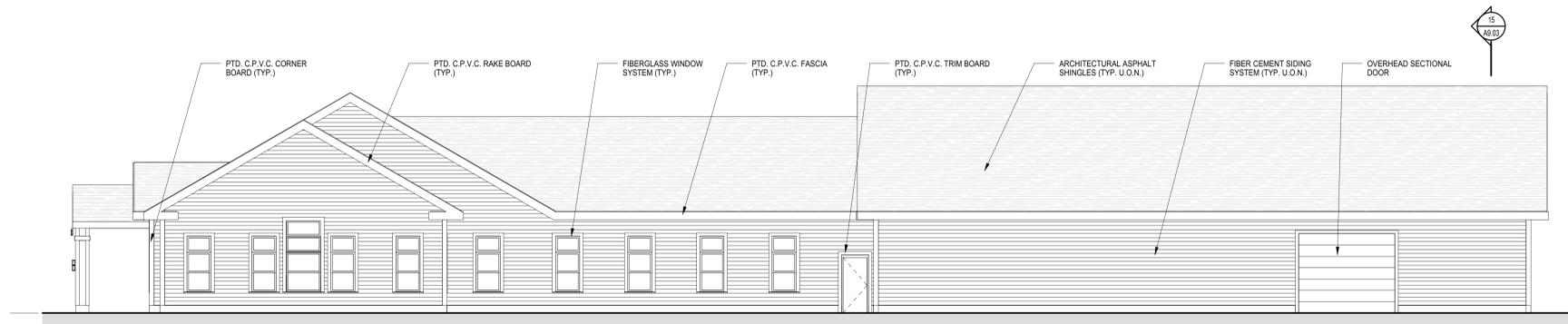
5 AUX. BUILDING SOUTH ELEVATION
1/8" = 1'-0"



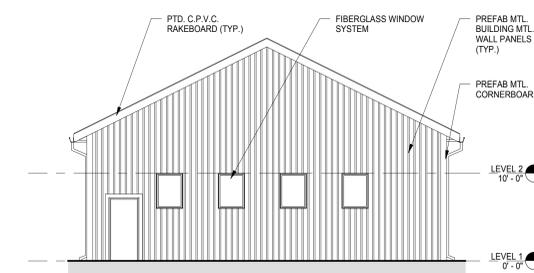
2 NORTH ELEVATION
1/8" = 1'-0"



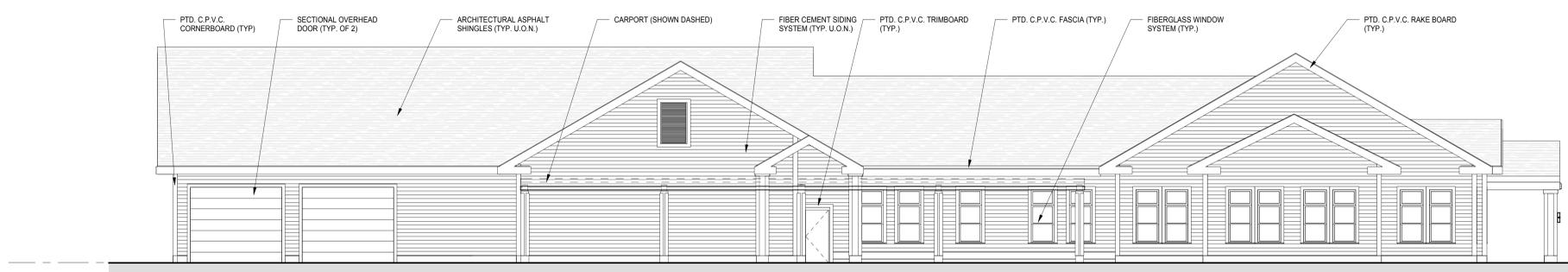
6 AUX. BUILDING NORTH ELEVATION
1/8" = 1'-0"



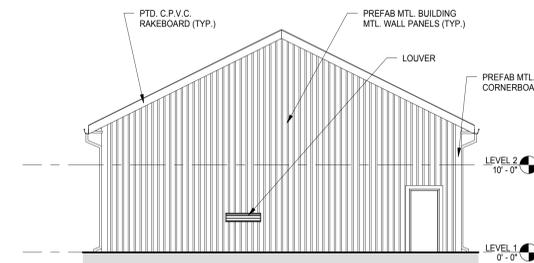
3 EAST ELEVATION
1/8" = 1'-0"



7 AUX. BUILDING EAST ELEVATION
1/8" = 1'-0"



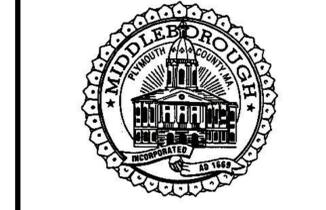
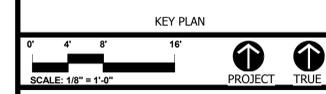
4 WEST ELEVATION
1/8" = 1'-0"



8 AUX. BUILDING WEST ELEVATION
1/8" = 1'-0"

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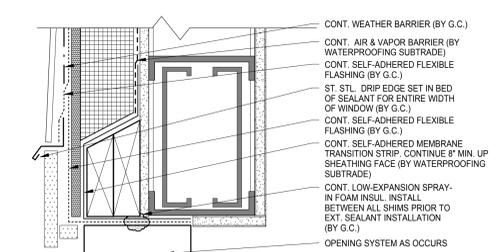
**MIDDLEBOROUGH
POLICE
DEPARTMENT**

WOOD STREET
MIDDLEBOROUGH, MA 02346

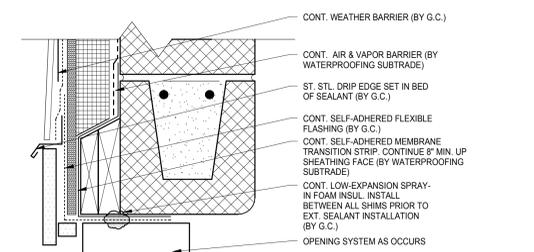
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**CONSTRUCTION
DETAILS**

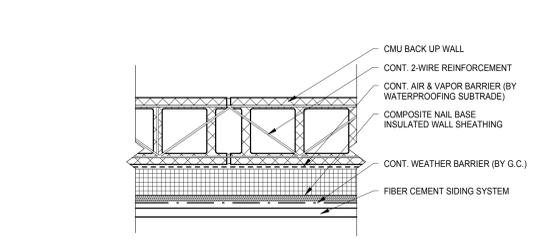
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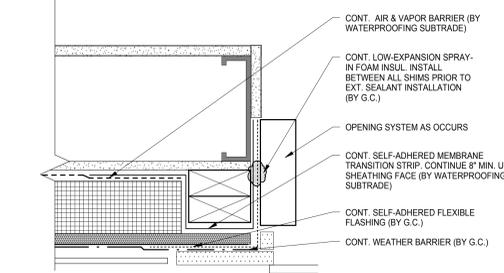
1 TYP. HEAD FLASHING SIDING SYSTEM @ MTL. STUD BACKUP WALL
3" = 1'-0"



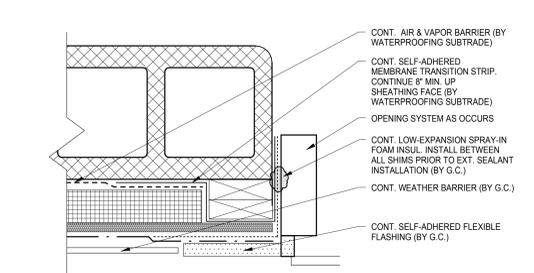
6 TYP. HEAD FLASHING SIDING SYSTEM @ CMU BACKUP WALL
3" = 1'-0"



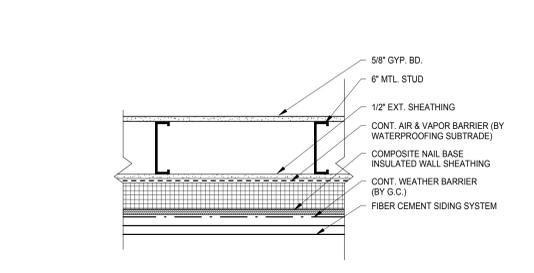
11 TYP. PLAN DETAIL FIBER CEMENT SIDING @ CMU BACK UP WALL
1 1/2" = 1'-0"



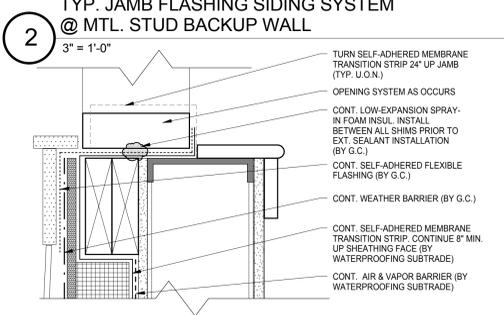
2 TYP. JAMB FLASHING SIDING SYSTEM @ MTL. STUD BACKUP WALL
3" = 1'-0"



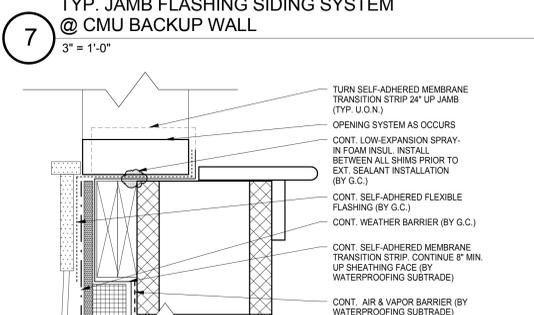
7 TYP. JAMB FLASHING SIDING SYSTEM @ CMU BACKUP WALL
3" = 1'-0"



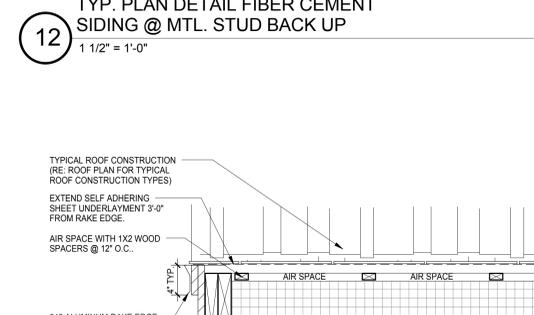
12 TYP. PLAN DETAIL FIBER CEMENT SIDING @ MTL. STUD BACK UP
1 1/2" = 1'-0"



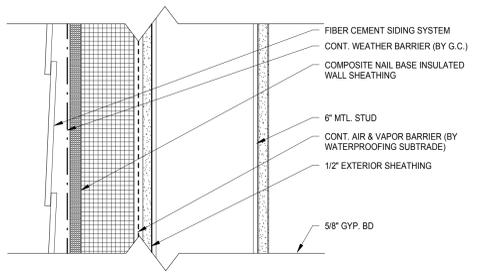
3 TYP. SILL FLASHING SIDING @ MTL. STUD BACKUP WALL
3" = 1'-0"



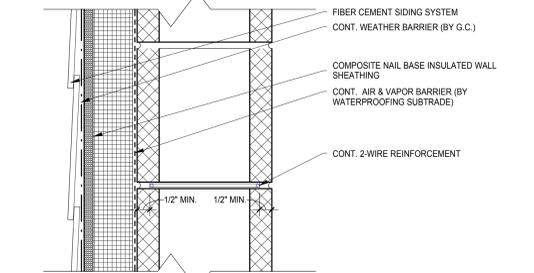
8 TYP. SILL FLASHING SIDING SYSTEM @ CMU BACKUP WALL
3" = 1'-0"



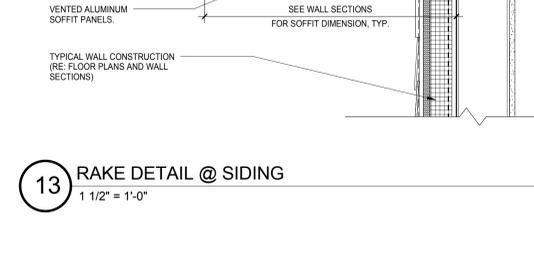
13 RAKE DETAIL @ SIDING
1 1/2" = 1'-0"



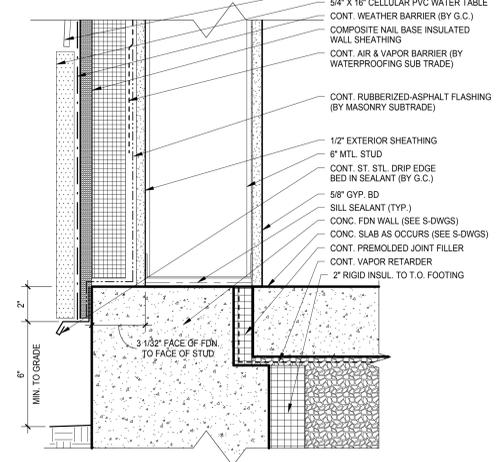
4 TYP. SIDING SYSTEM @ MTL. STUD BACK UP WALL ASSEMBLY
3" = 1'-0"



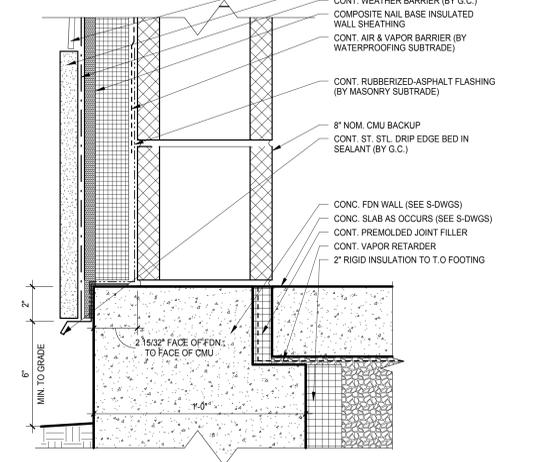
9 TYP. SIDING SYSTEM @ CMU BACKUP WALL ASSEMBLY
3" = 1'-0"



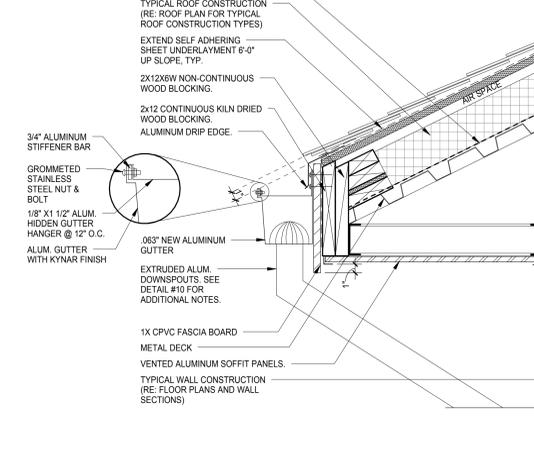
14 EAVE DETAIL @ SIDING
1 1/2" = 1'-0"



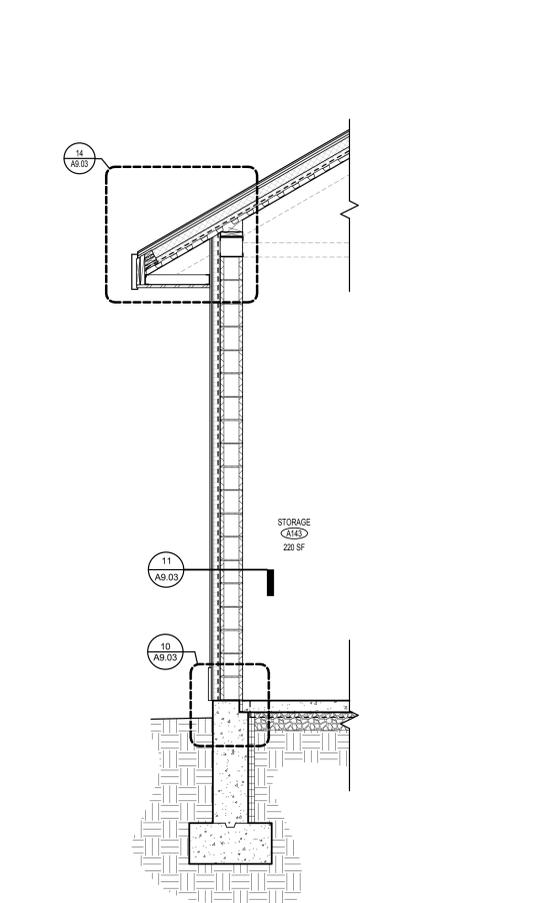
5 TYP. BASE OF WALL FLASHING SIDING SYSTEM @ 6" MTL. STUD BACK UP
3" = 1'-0"



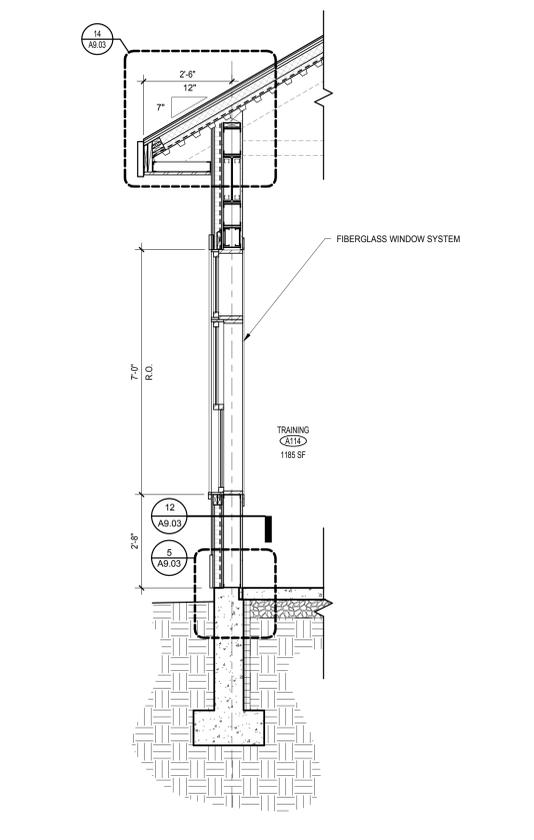
10 TYP. BASE OF WALL FLASHING SIDING SYSTEM @ CMU BACKUP WALL
3" = 1'-0"



14 EAVE DETAIL @ SIDING
1 1/2" = 1'-0"



15 FIBER CEMENT SIDING ON 8" CMU
1/2" = 1'-0"



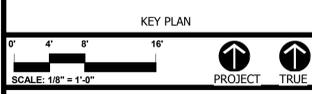
16 FIBER CEMENT SIDING ON 6" METAL STUD
1/2" = 1'-0"

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MIDDLEBOROUGH POLICE

PROJECT ADDRESS

PROJECT NO.: ##### DRAWN BY: Author

MAIN LEVEL FLOOR PLAN

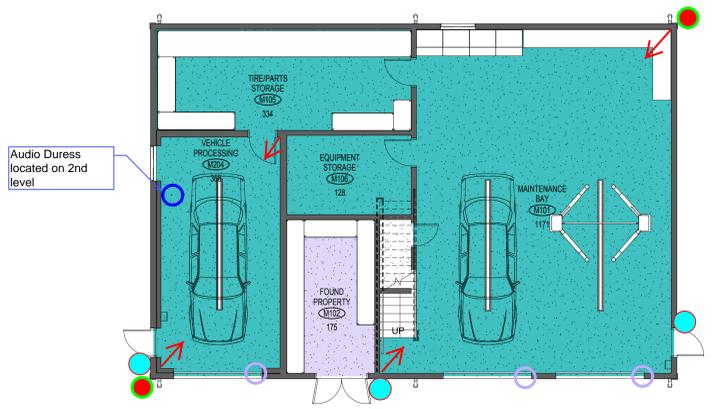
DRAWING NO.: **A1.01**

SECURITY DEVICE LEGEND

- Single Card Reader with Keypad
- Double Card Reader with Keypad
- Card Reader
- Intercom
- Volume Control for Speakers
- Speaker
- Duress Button
- Audio Duress
- Exit Only with Alarm
- Door Controller
- Door Contact
- Radio/Page
- ➔ Fixed Camera
- 180 Camera
- 360 Camera

COLOR LEGEND

- PUBLIC/ SHARED
- CIRCULATION
- BUILDING SUPPORT
- ADMINISTRATION
- PRISONER & EVIDENCE PROCESSING/DETENTION
- OPERATIONS
- STAFF SUPPORT
- DISPATCH



2 MAIN LEVEL - AUXILIARY BUILDING
1/8" = 1'-0"



1 MAIN LEVEL - MAIN BUILDING
1/8" = 1'-0"