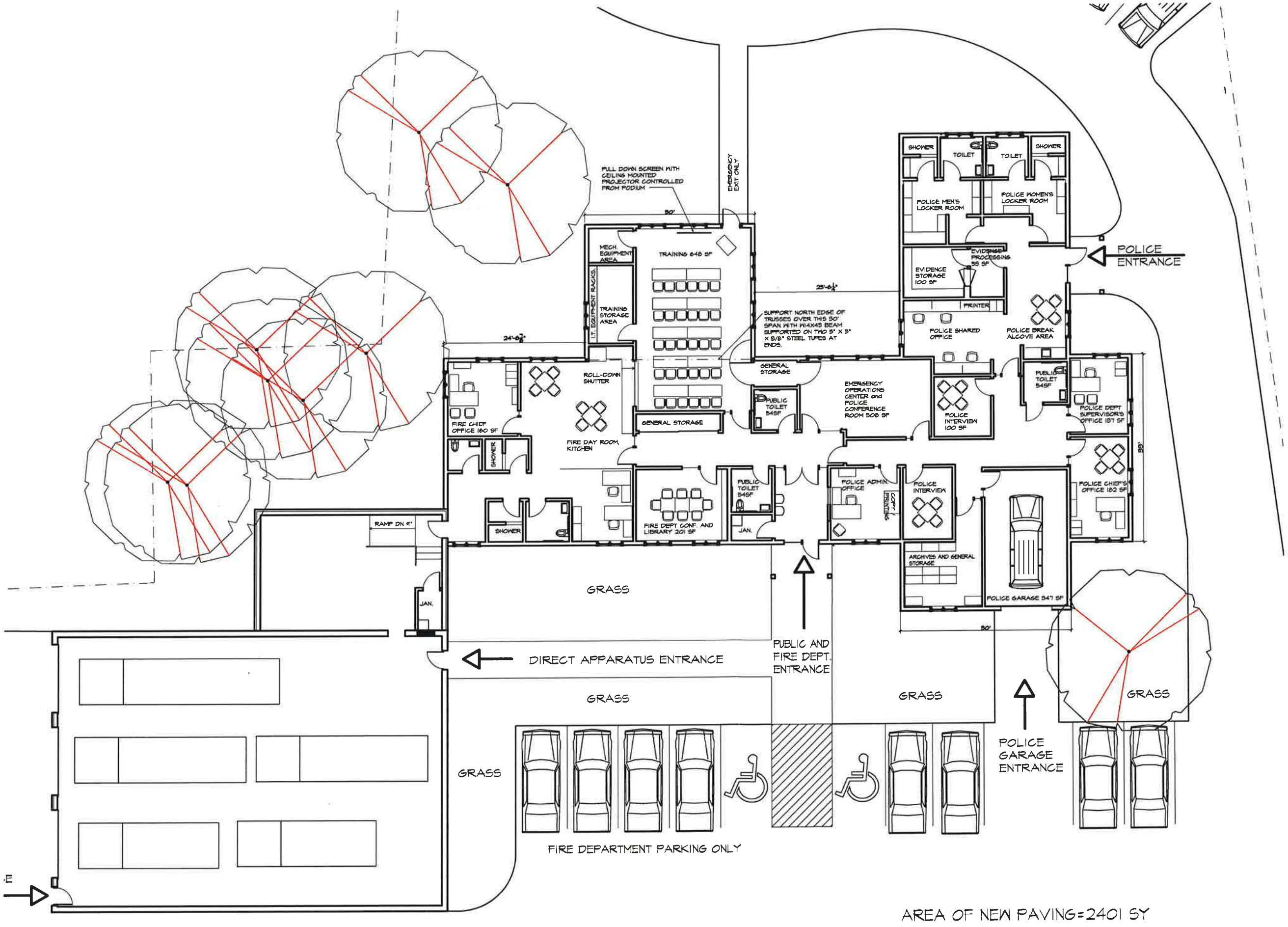

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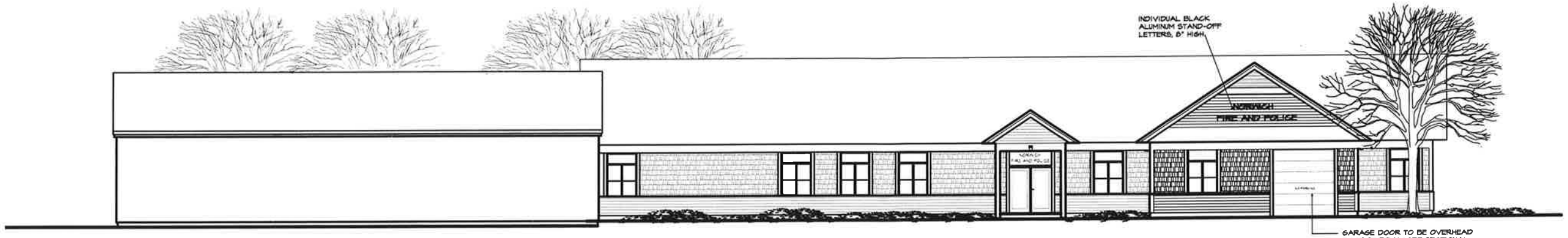
PROJECT:
NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-03

TITLE:
FLOOR PLAN
SCALE: 1/16" = 1' 0" (IF PRINTED 11X17)

ISSUE DATE: 8 19 16
REVISIONS:

SHEET No. A101



SOUTH ELEVATION

NORTH ELEVATION

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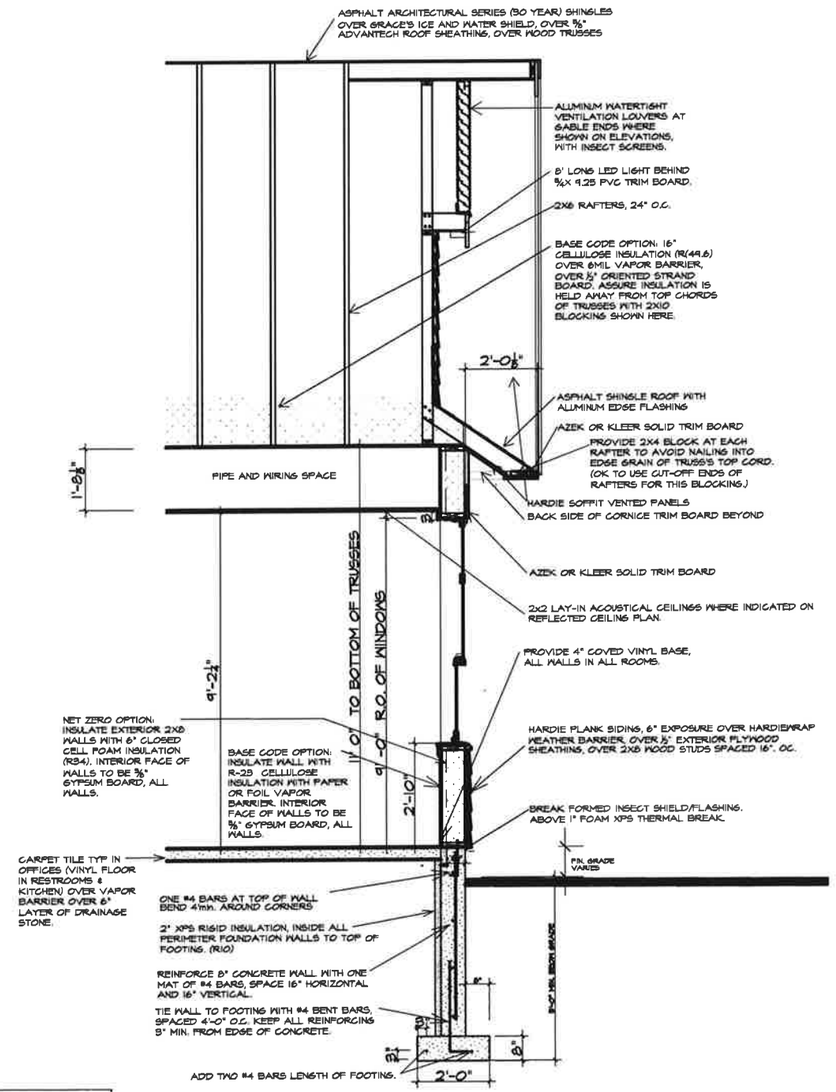
PROJECT:
NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-08

TITLE:
SOUTH ELEVATION
NORTH ELEVATION
SCALE: 1/16" = 1' 0" (IF PRINTED 11X17)

ISSUE DATE: 8 19 16
REVISIONS:

SHEET No. A201



GABLE END WALL SECTION

Scale: 1/4" = 1'-0"

EAST ELEVATION

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

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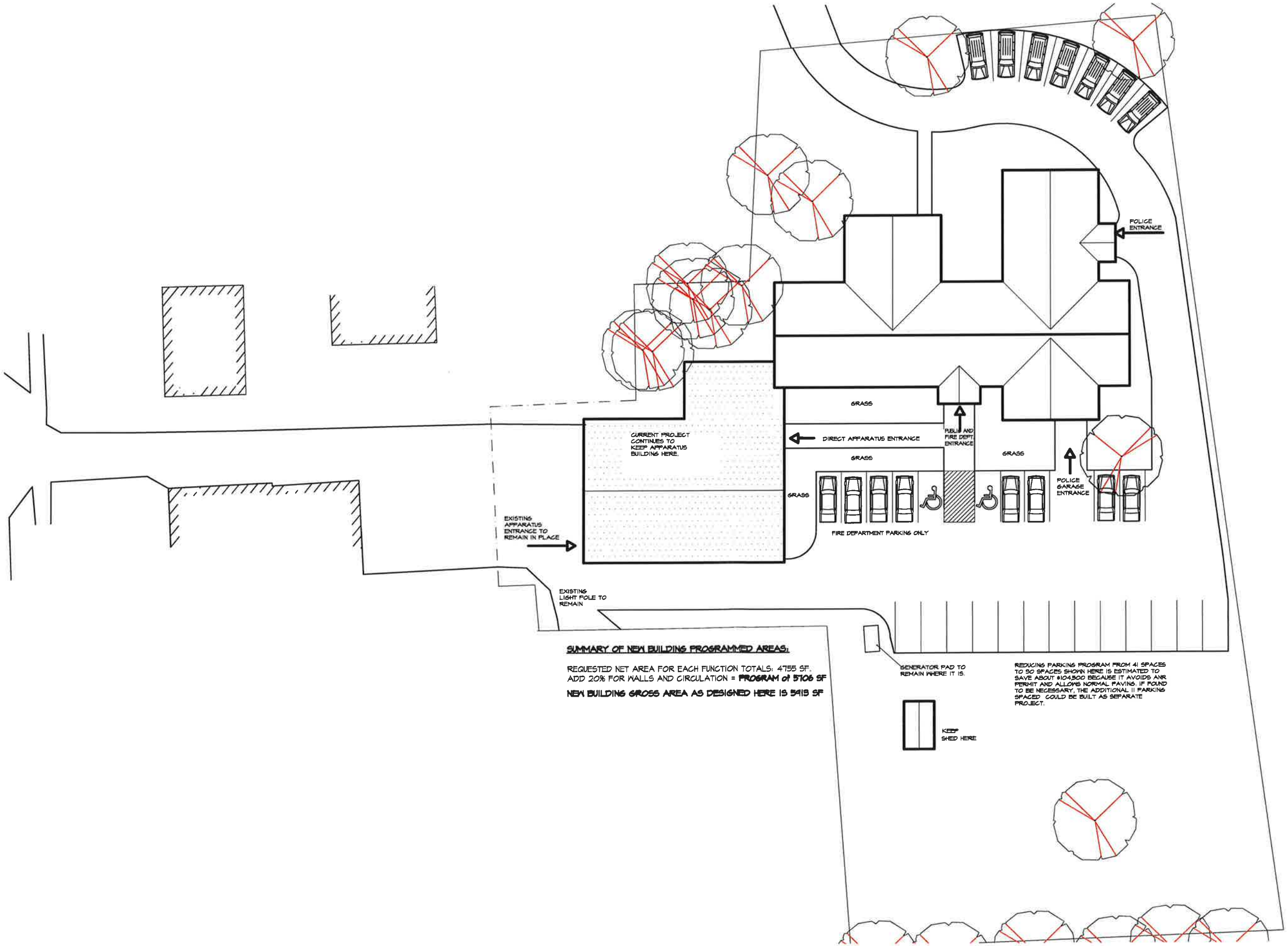
PROJECT: NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-08

TITLE: EAST ELEVATION
END WALL SECTION
SCALE: AS NOTED

ISSUE DATE: 8 19 16
REVISIONS:

SHEET No. A202



SUMMARY OF NEW BUILDING PROGRAMMED AREAS:

REQUESTED NET AREA FOR EACH FUNCTION TOTALS: 4755 SF.
ADD 20% FOR WALLS AND CIRCULATION = **PROGRAM of 5706 SF**

NEW BUILDING GROSS AREA AS DESIGNED HERE IS 5413 SF

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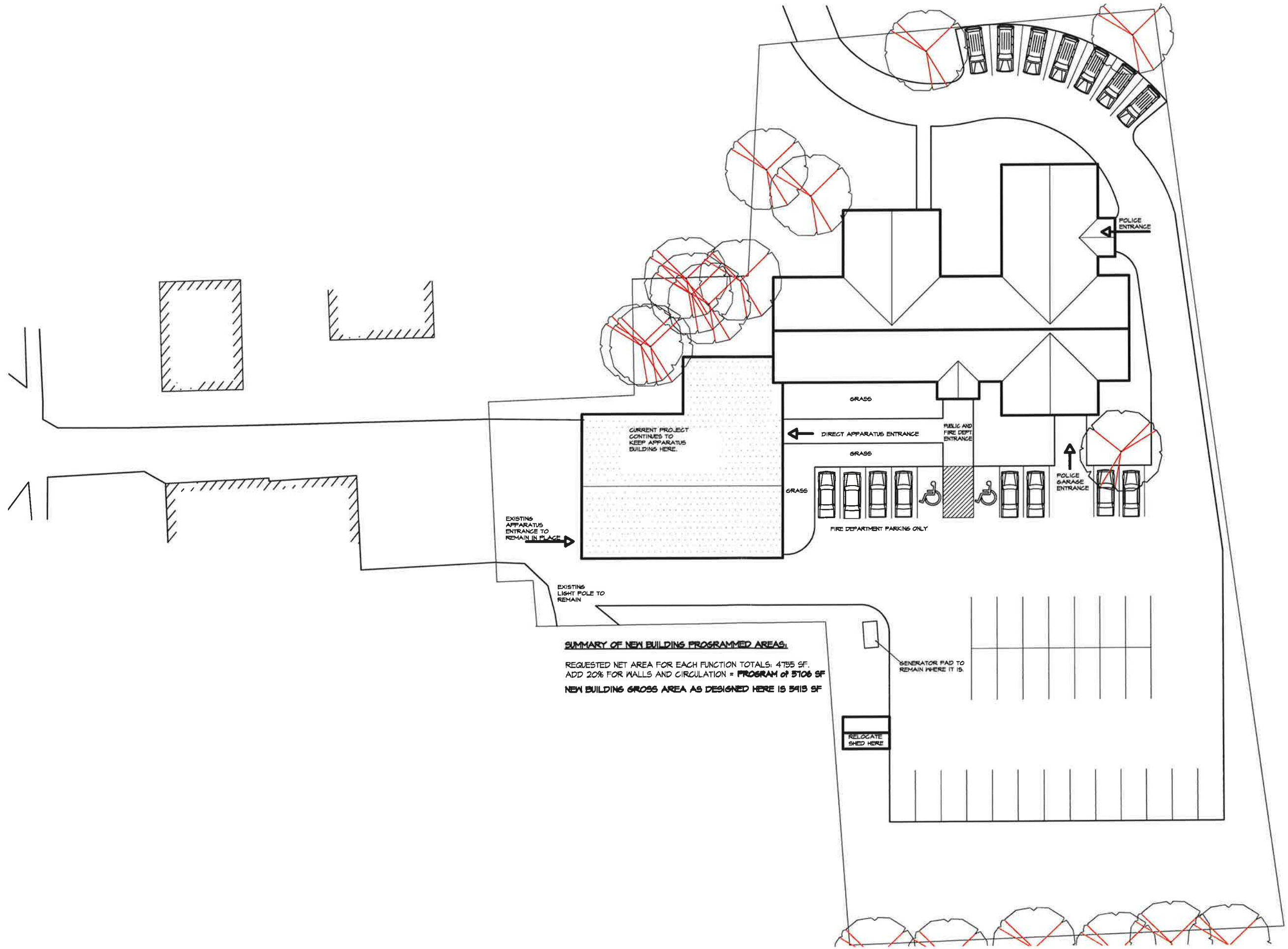
PROJECT:
NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-03

TITLE:
RECOMMENDED SITE PLAN
SCALE: 1/32" = 1' 0" (IF PRINTED 11X17)

ISSUE DATE: 8 19 16
REVISIONS:

SHEET No. C1 ALT



SUMMARY OF NEW BUILDING PROGRAMMED AREAS:

REQUESTED NET AREA FOR EACH FUNCTION TOTALS: 4755 SF.
ADD 20% FOR WALLS AND CIRCULATION = **PROGRAM of 5706 SF**

NEW BUILDING GROSS AREA AS DESIGNED HERE IS 5413 SF

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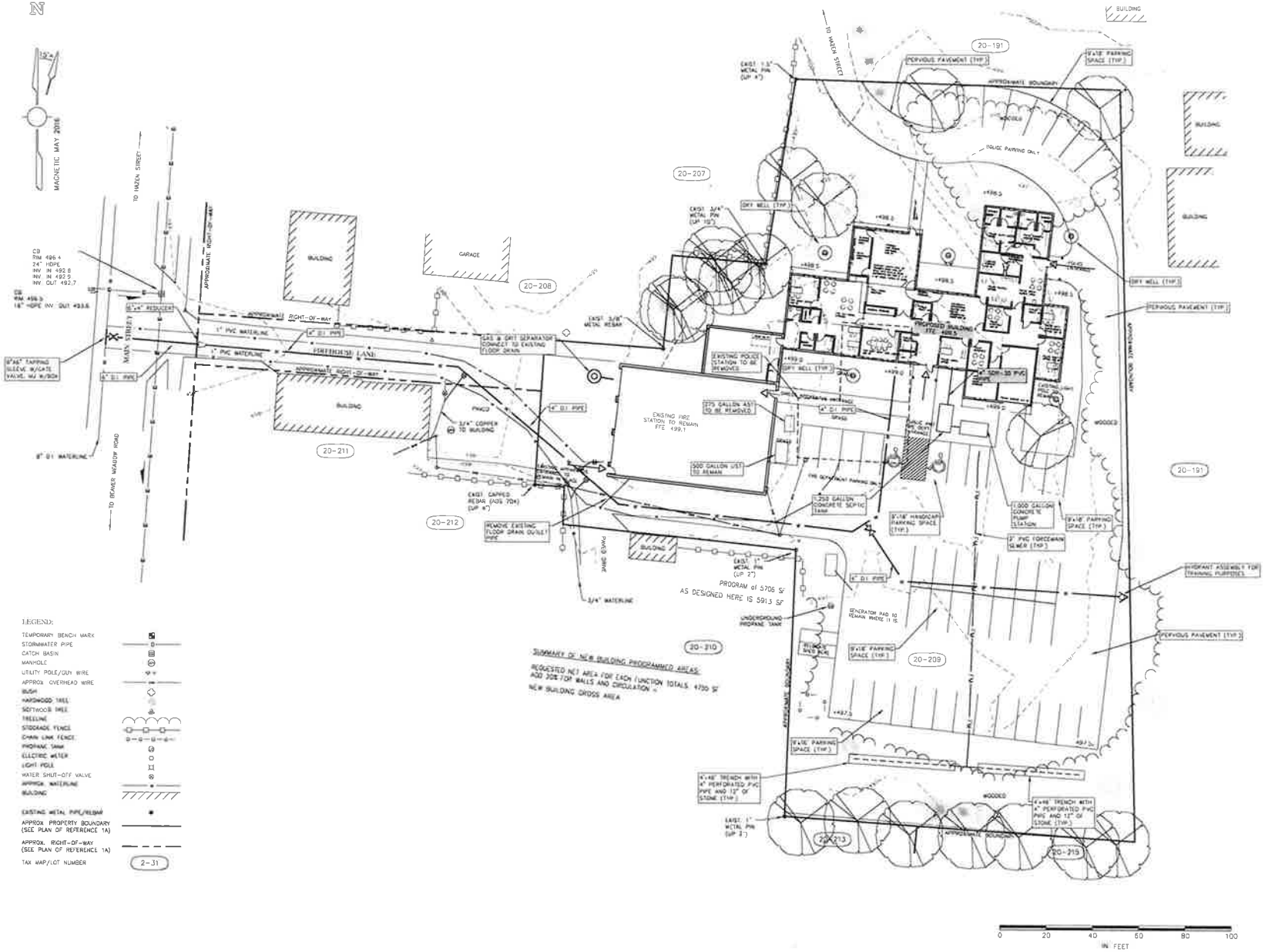
PROJECT:
NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-03

TITLE:
PROGRAMMED SITE PLAN
SCALE: 1/32" = 1' 0" (IF PRINTED 11X17)

ISSUE DATE:
8 19 16
REVISIONS:

SHEET No.
C1



LEGEND:

- TEMPORARY BENCH MARK
- STORMWATER PIPE
- CATCH BASIN
- MANHOLE
- UTILITY POLE/GUY WIRE
- APPROX. OVERHEAD WIRE
- BUSH
- HARDWOOD TREE
- SOFTWOOD TREE
- TREELINE
- STOCKADE FENCE
- CHAIN LINK FENCE
- PROPANE TANK
- ELECTRIC METER
- LIGHT POLE
- WATER SHUT-OFF VALVE
- APPROX. WATERLINE
- BUILDING
- EXISTING METAL PIPE/REBAR
- APPROX. PROPERTY BOUNDARY (SEE PLAN OF REFERENCE 1A)
- APPROX. RIGHT-OF-WAY (SEE PLAN OF REFERENCE 1A)
- TAX MAP/LOT NUMBER (2-31)

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PROJECT: NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-03

TITLE: SITE PLAN
SCALE: AS SHOWN

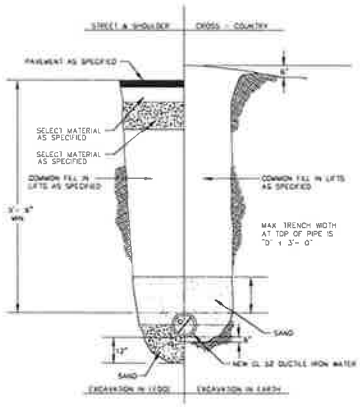
ISSUE DATE: 8.19.16
REVISIONS:

SHEET No. C2

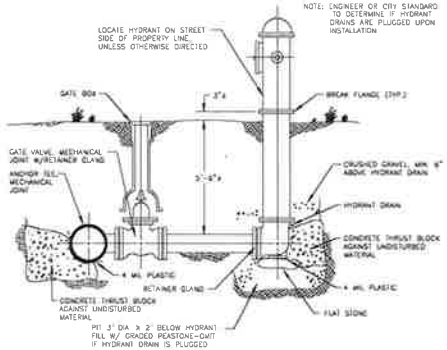
THRUST BLOCK BEARING AREA IN SQ FT
(PRESSURE = 150 PSI, FACTOR OF SAFETY = 2.0)

FITTINGS	WET SILT & SOFT CLAY	SILT	SAND	COARSE SAND & GRAVEL	HARDPAN
16" TEE, CAP	50.3	30.2	20.1	16.1	12.1
1/4 BEND	85.3	42.7	28.4	21.3	17.1
1/8 BEND	46.2	23.1	15.4	11.5	9.2
1/16 BEND	23.5	11.8	7.8	5.9	4.7
1/32 BEND	11.8	5.9	3.9	3.0	2.4
12" TEE, CAP	33.9	17.0	11.3	8.5	6.8
1/4 BEND	48.0	24.0	16.0	12.0	9.6
1/8 BEND	26.0	13.0	8.7	6.5	5.2
1/16 BEND	13.2	6.6	4.4	3.3	2.6
1/32 BEND	6.7	3.3	2.2	1.7	1.3
10" TEE, CAP	23.6	11.8	7.9	5.9	4.7
1/4 BEND	33.3	16.7	11.1	8.3	6.7
1/8 BEND	18.0	9.0	6.0	4.5	3.6
1/16 BEND	9.2	4.6	3.1	2.3	1.8
1/32 BEND	4.6	2.3	1.5	1.3	1.3
8" TEE, CAP	15.1	7.5	5.0	3.8	3.0
1/4 BEND	21.3	10.7	7.1	5.3	4.3
1/8 BEND	11.5	5.8	3.8	2.9	2.3
1/16 BEND	5.8	2.9	2.0	1.5	1.3
1/32 BEND	3.0	1.5	1.0	1.0	1.0
6" TEE, CAP	8.5	4.2	2.8	2.1	1.7
1/4 BEND	12.0	6.0	4.0	3.0	2.4
1/8 BEND	6.5	3.2	2.2	1.6	1.3
1/16 BEND	3.3	1.7	1.1	1.0	1.0
1/32 BEND	1.7	1.0	1.0	1.0	1.0
4" TEE, CAP	3.8	1.9	1.3	0.9	0.8
1/4 BEND	5.3	2.7	1.8	1.3	1.0
1/8 BEND	2.9	1.4	1.0	0.7	0.6
1/16 BEND	1.5	0.7	0.5	0.5	0.5
1/32 BEND	0.7	0.5	0.5	0.5	0.5
3" TEE, CAP	2.1	1.1	0.7	0.5	0.5
1/4 BEND	3.0	1.5	1.0	0.7	0.6
1/8 BEND	1.6	0.8	0.5	0.5	0.5
1/16 BEND	0.8	0.5	0.5	0.5	0.5
1/32 BEND	0.5	0.5	0.5	0.5	0.5
2" TEE, CAP	0.9	0.5	0.5	0.5	0.5
1/4 BEND	1.3	0.7	0.5	0.5	0.5
1/8 BEND	0.7	0.5	0.5	0.5	0.5
1/16 BEND	0.5	0.5	0.5	0.5	0.5
1/32 BEND	0.5	0.5	0.5	0.5	0.5

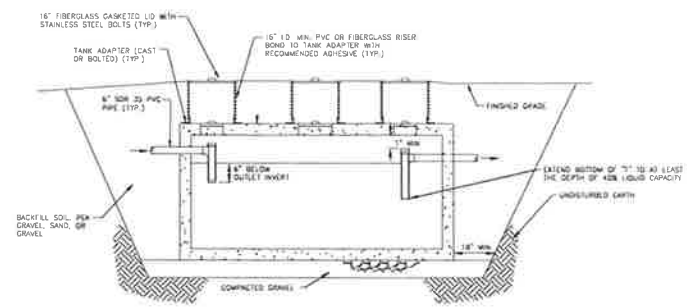
SOIL TYPE	BEARING CAPACITY (psf)
MUCK	-0-
WET SILT & SOFT CLAY	1000
SILT	2000
SAND	3000
COARSE SAND & GRAVEL	4000
HARDPAN	5000



WATER MAIN TRENCH
N.T.S.



HYDRANT
N.T.S.



SEPTIC TANK DETAIL
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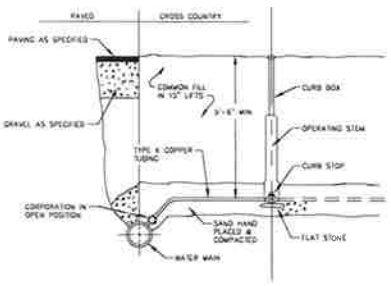

SERVICE CONNECTION
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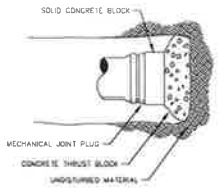
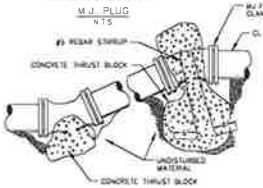
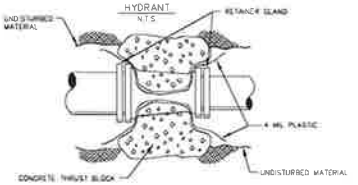


M.J. PLUG
N.T.S.

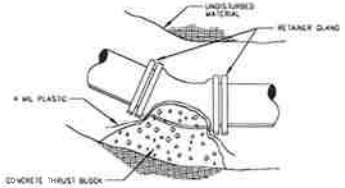


NOTE: EXTEND REINFORCED THRUST BLOCK 2' MINIMUM EITHER SIDE OF FITTING TO MAXIMIZE DOWN-PRESSURE EFFECT OF EARTH BACKFILL

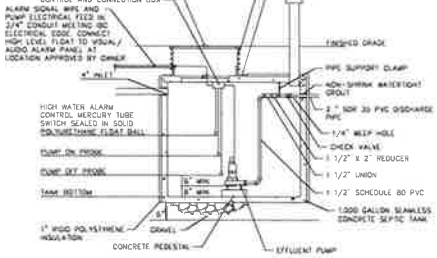
M.J. VERTICAL BENDS - ELEVATION
N.T.S.



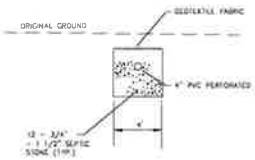
PLAN VIEW - M.J. REDUCER
N.T.S.



M.J. BEND
N.T.S.



1,000 GALLON CONCRETE PUMP STATION
N.T.S.



TRENCH DETAIL
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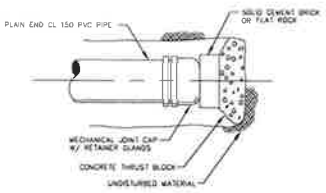
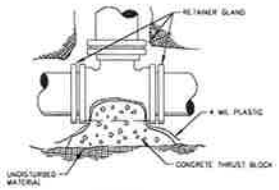
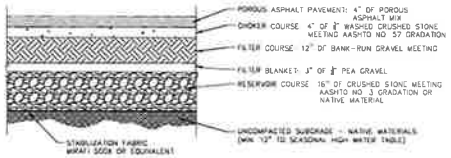


M.J. CAP
N.T.S.



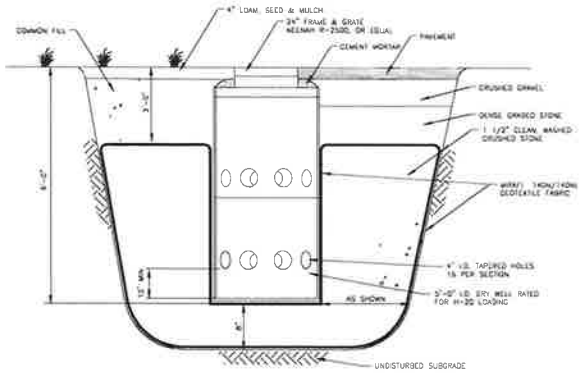
M.J. TEE
N.T.S.



POROUS ASPHALT PAVEMENT SECTION

MAINTENANCE REQUIREMENTS FOR POROUS ASPHALT PAVEMENT:

1. PROVISION OF SIGNS IS RECOMMENDED TO INDICATE LOCATIONS OF PERMEABLE PAVEMENTS AND THE APPLICABILITY OF SPECIAL MAINTENANCE MEASURES
2. NO WINTER SANDING OF PERMEABLE PAVEMENTS IS PERMITTED
3. MINIMIZE APPLICATION OF SALT FOR ICE CONTROL
4. NEVER RESEAL OR REPAVE WITH IMPERMEABLE MATERIALS
5. INSPECT ANNUALLY FOR PAVEMENT DETERIORATION OR SPALLING
6. MONITOR PERIODICALLY TO ENSURE THAT THE PAVEMENT SURFACE DRAINS EFFECTIVELY AFTER STORMS
7. FOR POROUS ASPHALT, CLEAN ONCE OR TWICE A YEAR, OR AS NECESSARY TO PREVENT EXCESSIVE CLOGGING USING A VACUUM SWEEPER. POWER WASHING MAY BE REQUIRED PRIOR TO VACUUM SWEEPING, TO DISLODGE TRAPPED PARTICLES
8. FOR INTERLOCKING PAVING STONES: PERIODICALLY ADD JOINT MATERIAL TO REPLACE LOST MATERIAL
9. FOR SEEDED GRID SYSTEMS, PERIODIC RESEEDING OF GRASS PAVERS TO FILL IN BARE SPOTS
10. MAJOR CLOGGING MAY NECESSITATE REPLACEMENT OF PAVEMENT SURFACE, AND POSSIBLY FILTER COURSE AND SUB-BASE COURSE



STORMWATER INFILTRATION BASIN
N.T.S.

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PROJECT: NORWICH FIRE AND POLICE FACILITIES
NORWICH, VERMONT
JOB No. 16-03

TITLE: MISCELLANEOUS DETAIL
SCALE: AS SHOWN

ISSUE DATE: 8.19.16
REVISIONS:

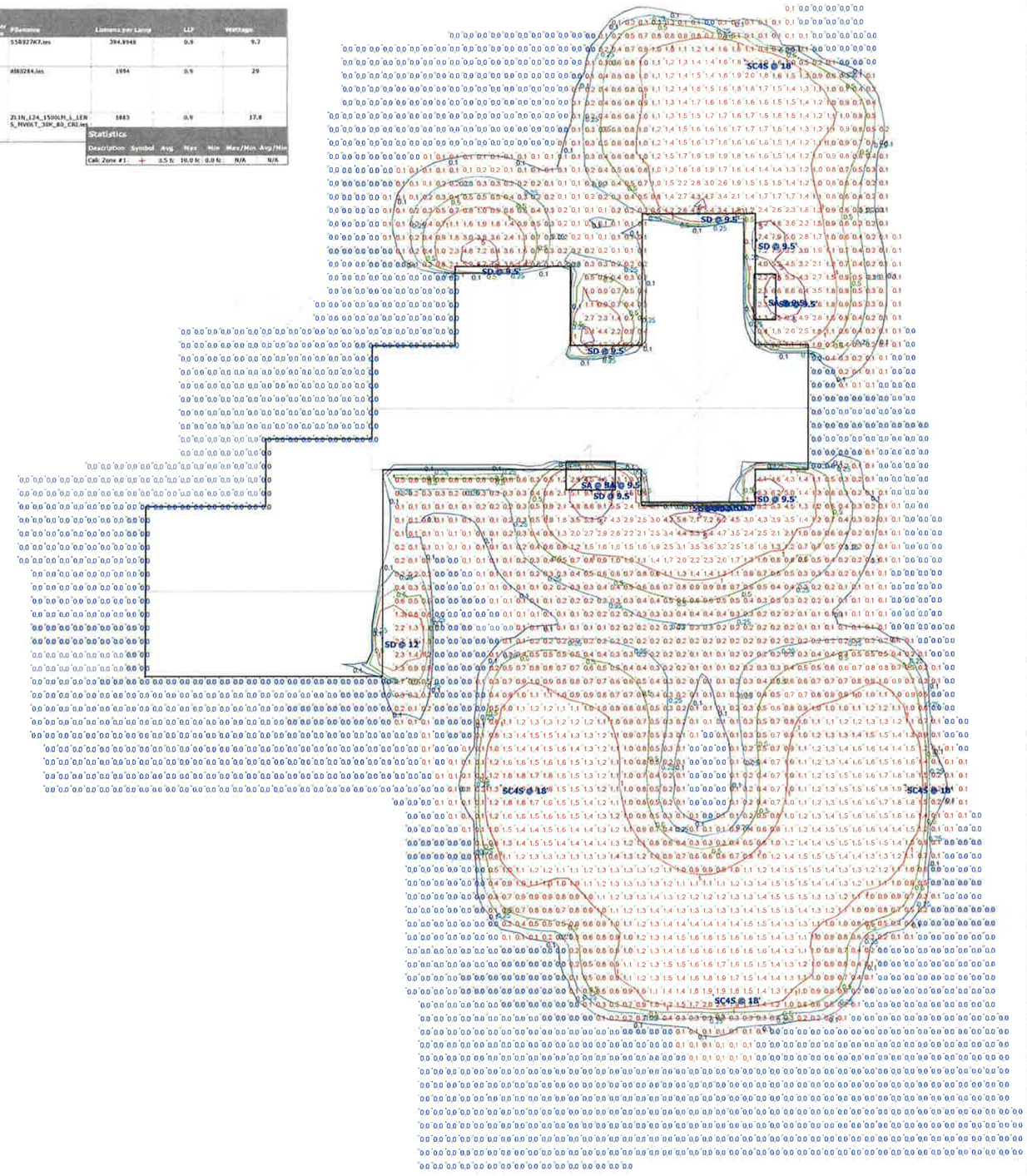
SHEET No. C3

Schedule

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	LLF	Wattage
	SA	3	PHILIPS LIGHTOLIER	SSR927K7	SLIMSURFACE 5-INCH ROUND	LED 90-CRI 2700K 650-LM	1	SSR927K7.ies	394.9948	0.9	9.7
	SD	8	RAB LIGHTING, INC.	WPLED26Y (WALLPACK) - ALED26Y (AREA LIGHTER)	CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 2 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.	ONE WHITE MULTI-CHIP LIGHT EMITTING DIODE (LED), TILTED 23-DEGREES FROM VERTICAL BASE-UP POSITION.	1	AB83284.ies	1994	0.9	29
	SE	4	Lithonia Lighting	2LIN L24 1500LM L/LENS MVOLT 30K 80 CRI	2LIN 24" LENGTH 1500 LUMENS ND DIFFUSER 3000 K 80 CRI	LED	1	2LIN_L24_1500LM_L_LENS_MVOLT_30K_80_CRI.ies	1883	0.9	17.0

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #1	+	3.5 fc	10.0 fc	0.0 fc	N/A	N/A



Plan View - ELECTRICAL SITE LIGHTING

Engineering Services of Vermont

NORWICH FIRE AND POLICE FACILITY
NORWICH, VERMONT

EXTERIOR LIGHTING CALCULATION

Designer
- EAR LENSTEIN PE
Date
08/10/2016
Scale
AS NOTED
Drawing No.
ESL1
Summary