



# CITY OF PORTLAND PUBLIC WORKS DEPARTMENT

## Sanitation Office / Crew Space

109 District Road, Portland, ME

#### CONSULTANTS

## Architect: WINTON SCOTT ARCHITECTS

5 Milk Street Portland, ME 04101 T. 207.774.4811 wintonscott.com

Structural Engineering:
STRUCTURAL INTEGRITY
CONSULTING ENGINEERS, INC.

46 Forest Avenue Portland, ME 04101 T. 207.774.4614 structuralinteg.com

HVAC & Plumbing Engineering:
MECHANICAL SYSTEMS
ENGINEERS

10 Forest Falls Drive, unit 10 Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering:
SWIFT CURRENT
ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280

### SHEET INDEX

#### ARCHITECTURAL

A0.1 SITE PLAN & SHED BUILDING PLAN
A1.1 FLOOR PLAN, REFLECTED CEILING PLAN & DETAILS
A2.1 BUILDING ELEVATIONS, BUILDING SECTION & WALL SECTION
A3.1 PARTITIONS TYPES, SCHEDULES &INTERIOR DETAILS
A4.1 CABINET, MILLWORK & WINDOW DETAILS

#### STRUCTURAL

S1.1 ROOF FRAMING PLAN, FOUNDATION PLAN & DETAILS

#### MECHANICAL

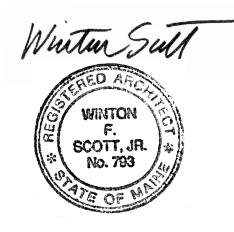
M1 MECHANICAL SHEET METAL PLAN
M2 MECHANICAL DETAILS & SECTIONS
M3 MECHANICAL SCHEDULES & NOTES

#### **PLUMBING**

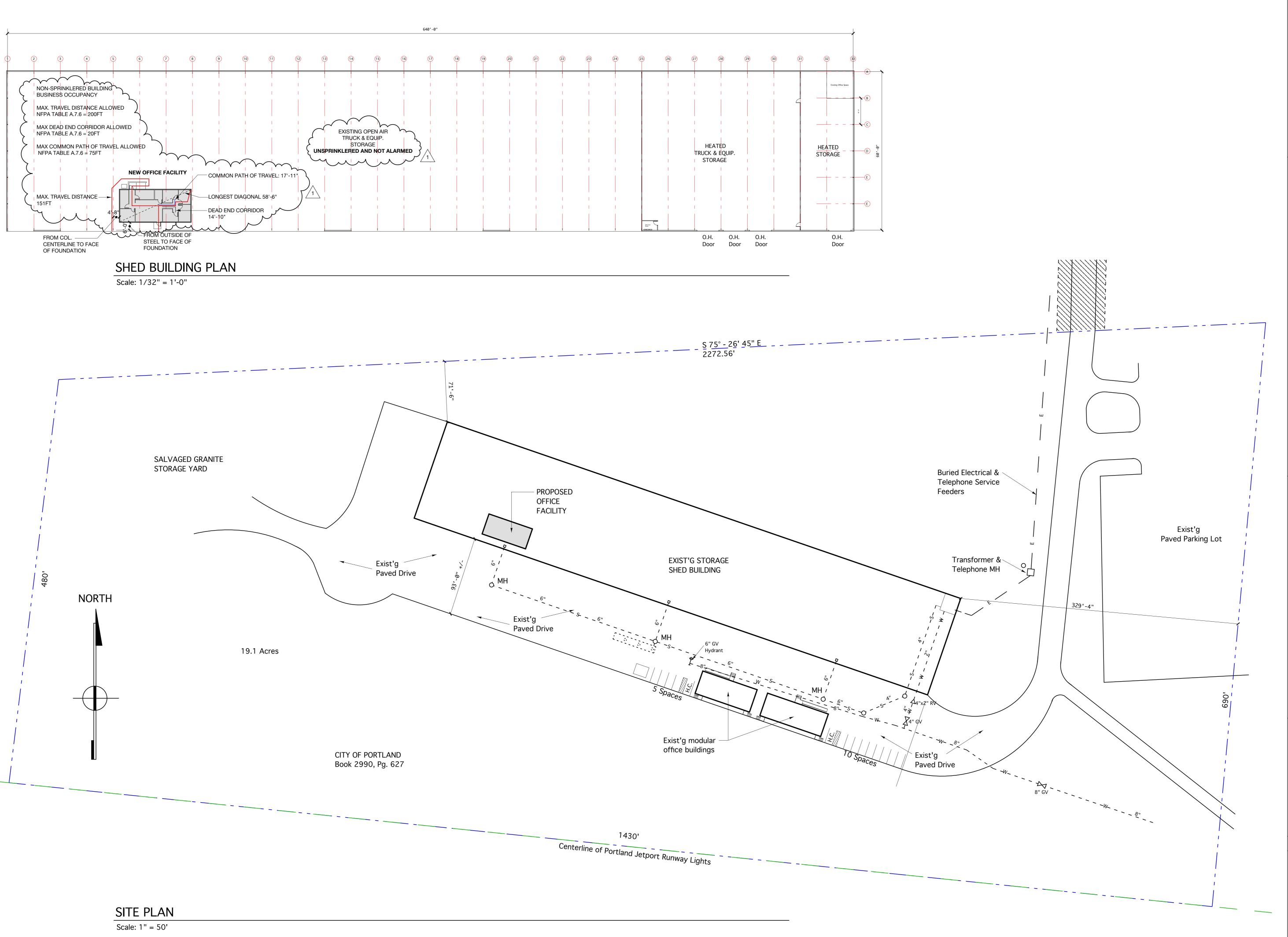
P1 PLUMBING PLAN & NOTES
P2 PLUMBING DETAILS, SCHEDULES & LEGEND

#### ELECTRICAL

E0.0 ELECTRICAL GENERAL NOTES AND LEGEND
E1.0 ELECTRICAL POWER & SYSTEMS PLANS, ONE-LINE DIAGRAM & PANEL SCHEDULES
E2.0 ELECTRICAL LIGHTING PLAN & LIGHTING SCHEDULE



BID SET
September 5, 2018





5 Milk Street Portland, Maine 04101 207 774 4811 www.wintonscott.com



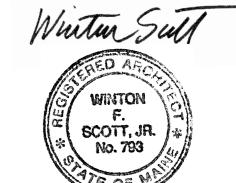
1 REVISED 10-30-2018

City of Portland Public Works Department:

Sanitation Office / Crew Space

109 District Rd, Portland

**BID SET** 

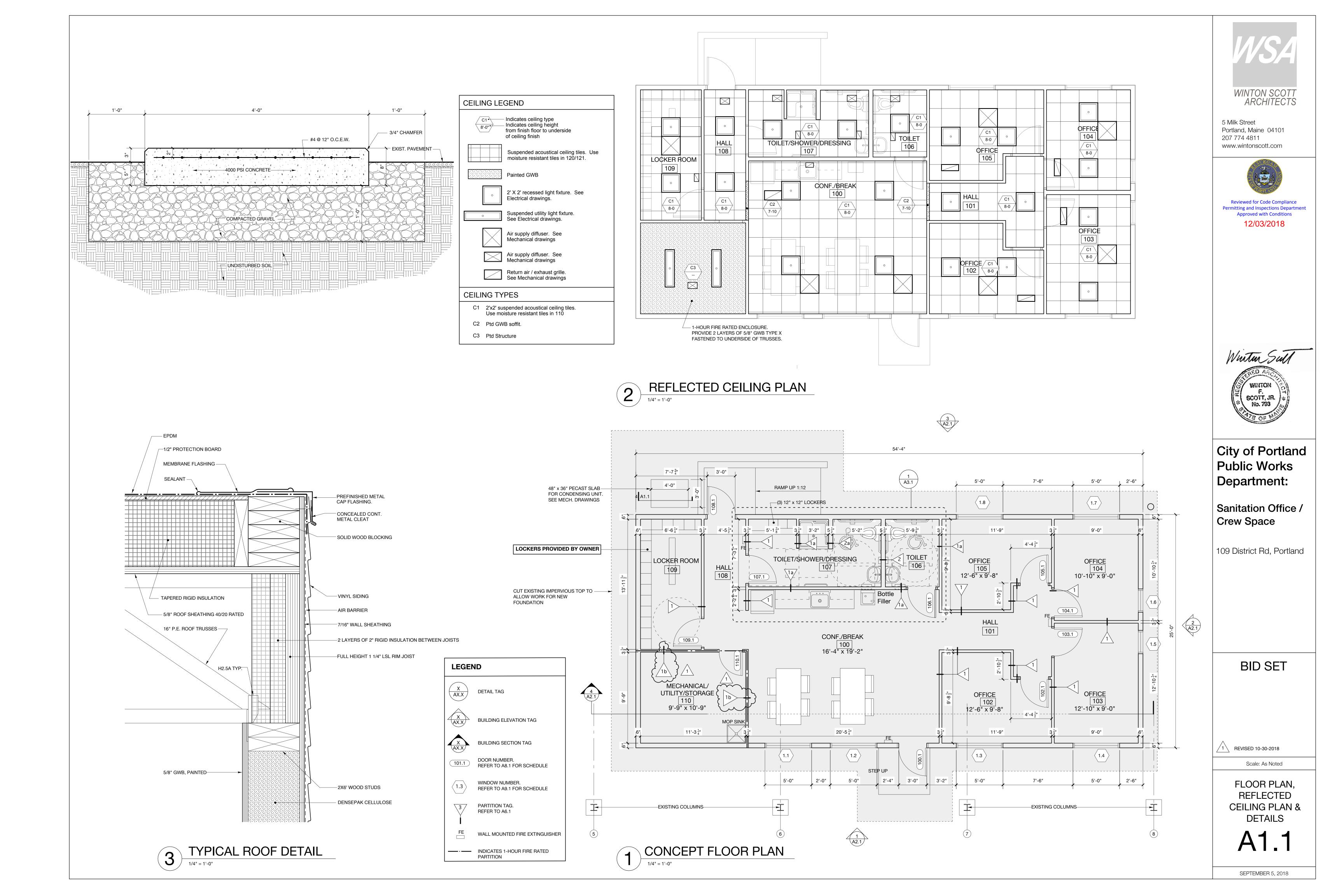


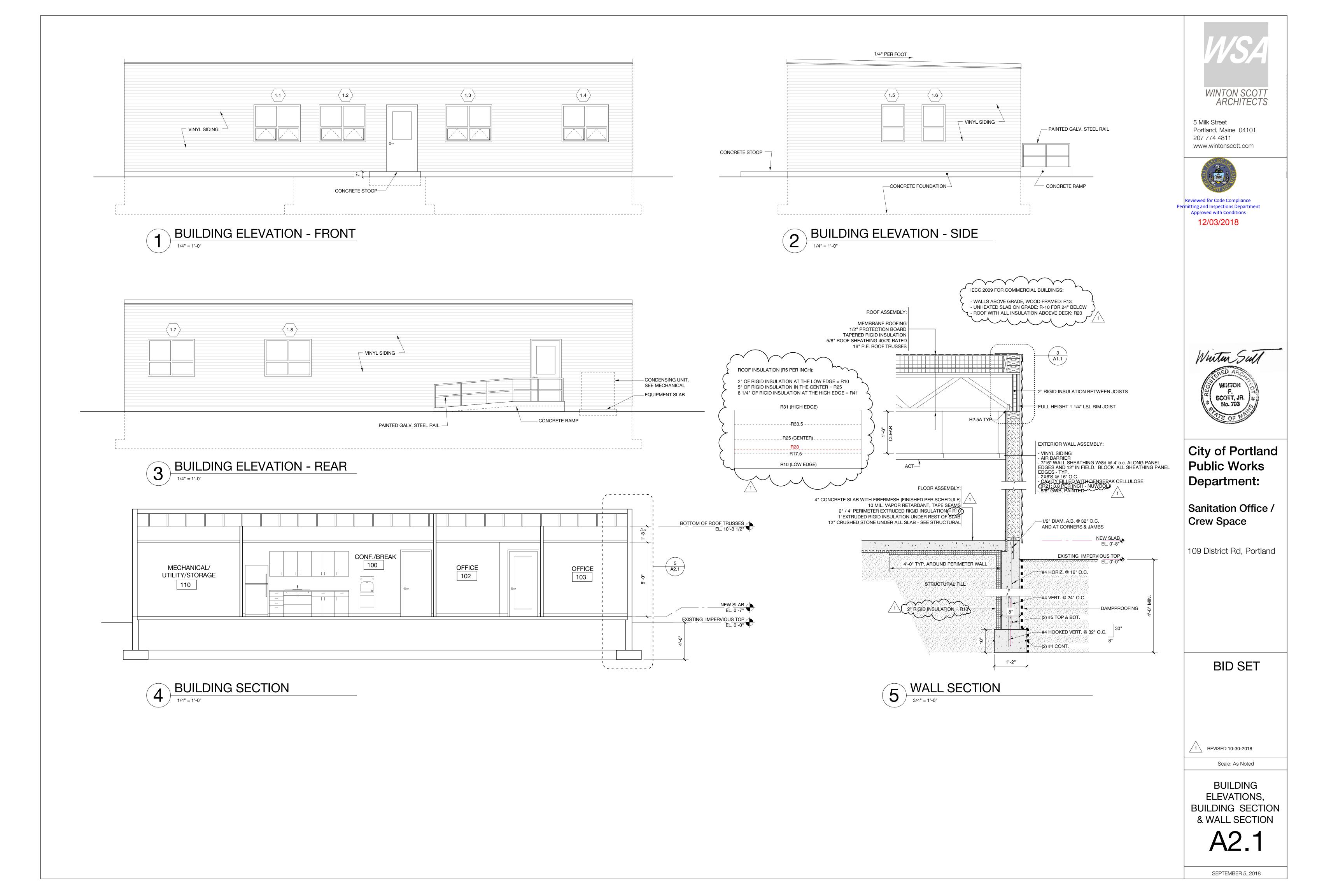
Scale: As Noted

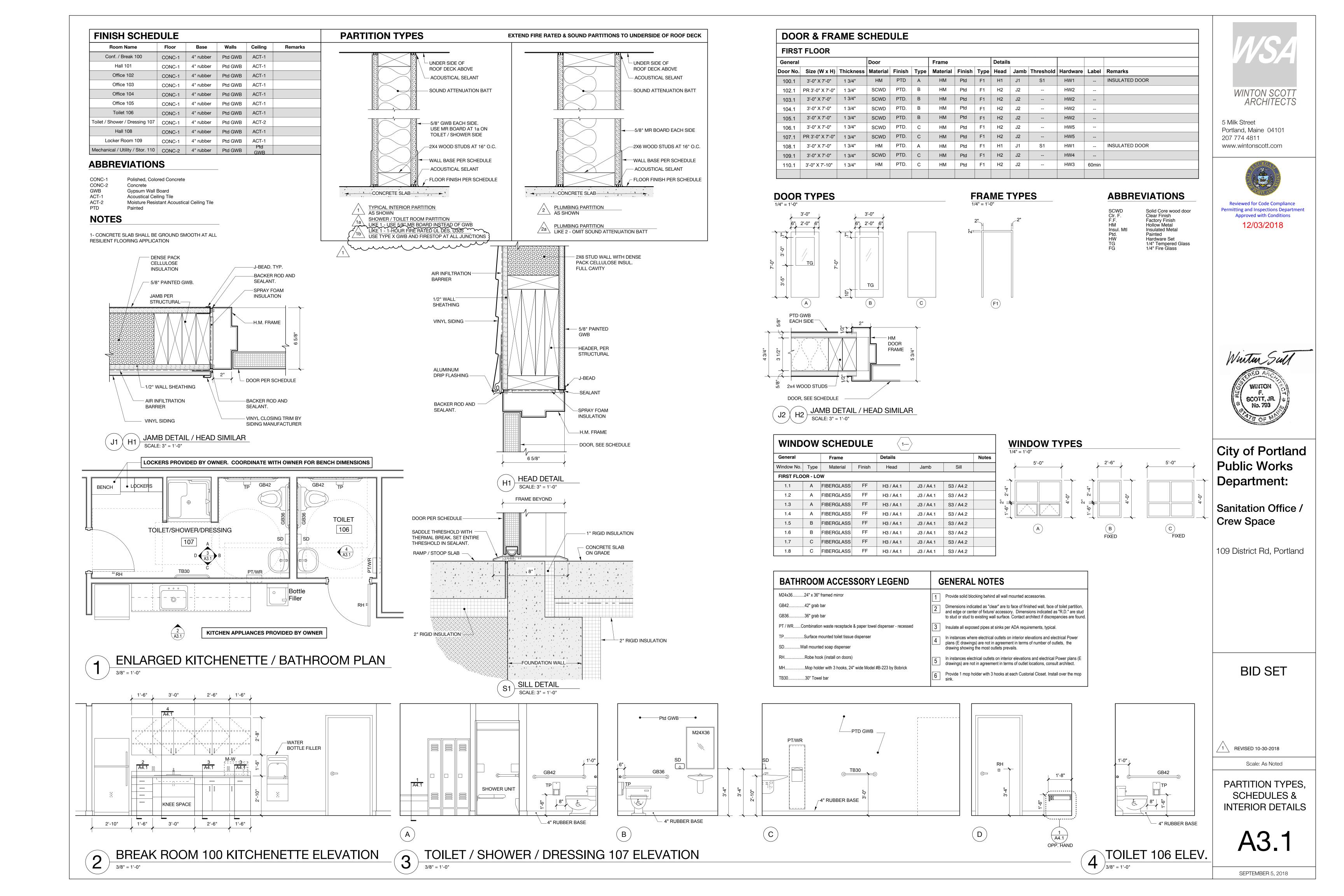
SITE PLAN & SHED BUILDING PLAN

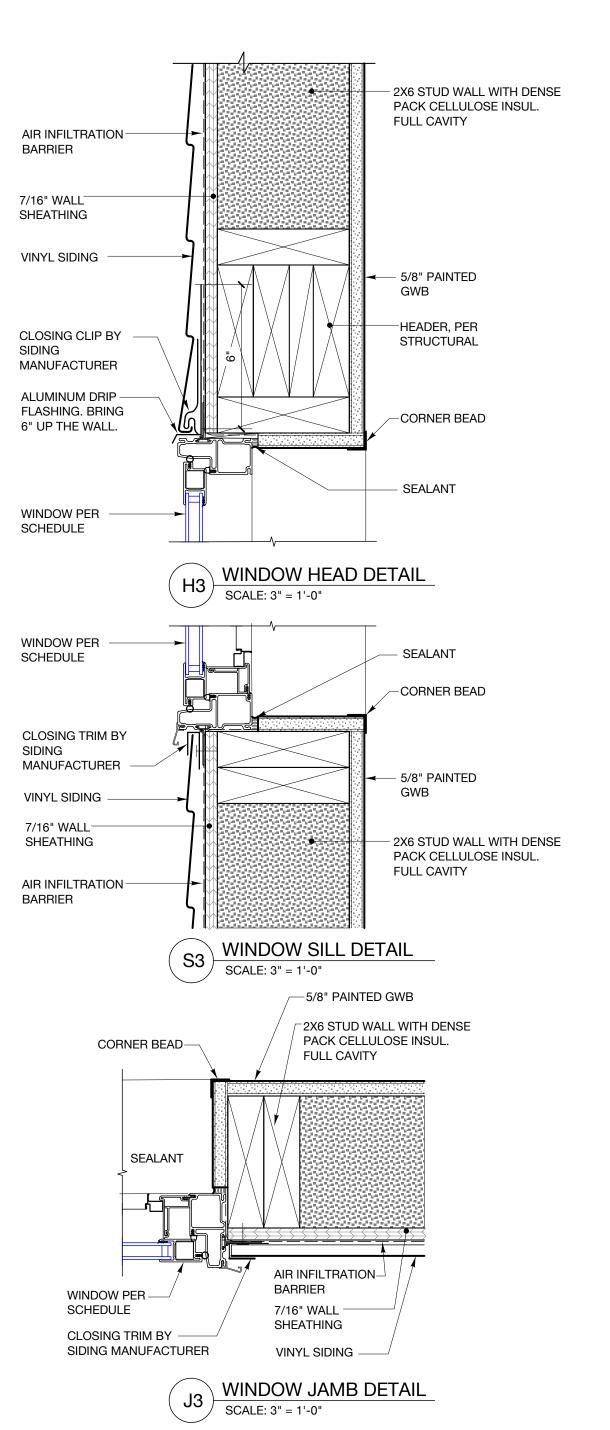
A0 1

SEPTEMBER 5, 2018









1'-8"

SHOWER BENCH DETAIL

SCALE: 1 1/2" = 1'-0"

1X MAPLE TRIM

SIMPSON GA1 CONNECTOR — AT BEAM TO LEDGER CONNECTION

5/4 X 6 MAPLE BOARDS WITH 1/4"

SPACING BETWEEN EACH BOARD.

2X4 LEDGER AT EACH END WALL &

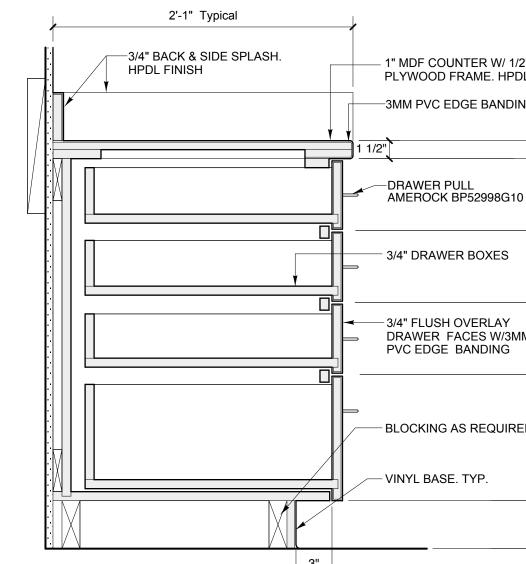
(2) 2X4S SPACED EQUALLY

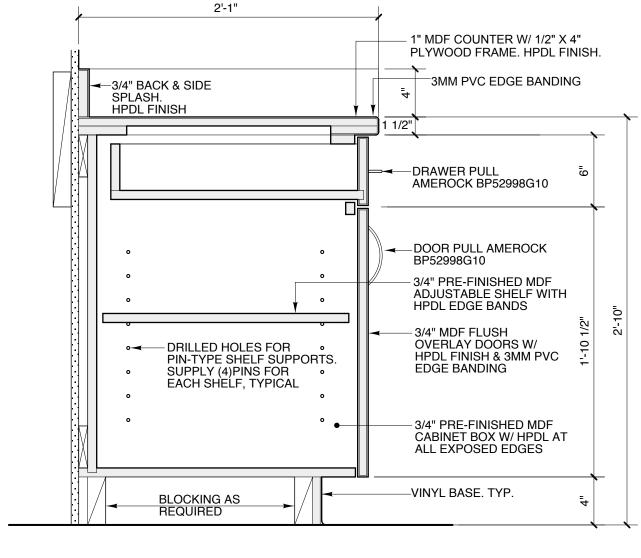
ALONG LENGTH OF BENCH.

(2)2X4 BEHIND TRIM.

2X4 LEDGER AT BACK WALL &-

FINISH W/ SEMI GLOSS POLYURETHENE







—SOLID BLOCKING AS REQUIRED.

— 3/4" MDF FLUSH OVERLAY DOOR WITH PLASTIC LAM. FINISH & 3MM

--DRILLED HOLES FOR PIN-TYPE SHELF SUPPORTS. SUPPLY (4) PINS

-3/4" PRE-FINISHED MDF CABINET BOX

W/ PLASTIC. LAM. BANDING AT ALL

- LIGHT FIXTURE PER ELECTRICAL

— 1" MDF COUNTER W/ 1/2" X 4" PLYWOOD FRAME. PLASTIC

3MM PVC EDGE BANDING

\_3/4" MDF APRON WITH

PVC EDGE BANDING

PLASTIC LAM. FINISH & 3MM

—3/4" MDF PIPE PROTECTION PANEL. PLASTIC LAM. FINISH & 3MM PVC EDGE BANDING.

INSTALL W/ CONT. ANGLES

—3/4" PRE-FINISHED MDF CABINET END PANEL W/

PLASTIC LAM. AT ALL **EXPOSED EDGES** 

AT EACH END.

LAM. FINISH.

PVC EDGE BANDING

3/4" PRE-FINISHED MDF ADJUSTABLE SHELVES WITH PLASTIC LAM. EDGE BANDING

FOR EACH SHELF, TYPICAL

EXPOSED EDGES.

DOOR PULL AMEROCK BP52998G10

(MIN.)

(MIN.)

SELF RIMMING ADA COMPLIANT STAINLESS STEEL SINK AND

FAUCET PER SPECIFICATIONS -

—3/4" X 4" BACK SPLASH.

PLASTIC LAM. FINISH

SOLID

BLOCKING AS

d" RUBBER BASE

REQUIRED.



Portland, Maine 04101 207 774 4811 www.wintonscott.com





## City of Portland Public Works Department:

Sanitation Office / **Crew Space** 

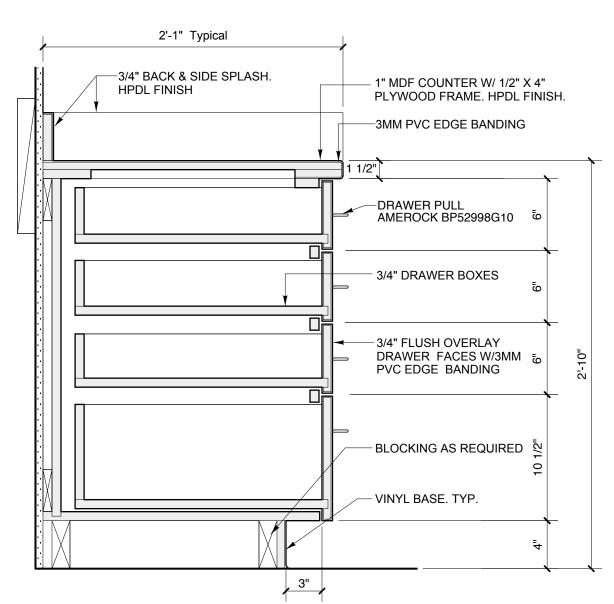
109 District Rd, Portland

**BID SET** 

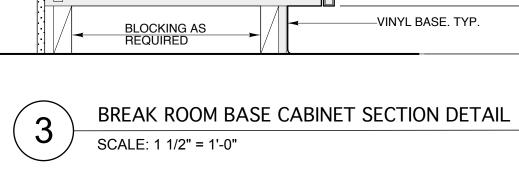
Scale: As Noted

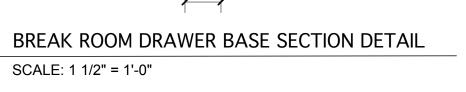
CABINET, MILLWORK & WINDOW DETAILS

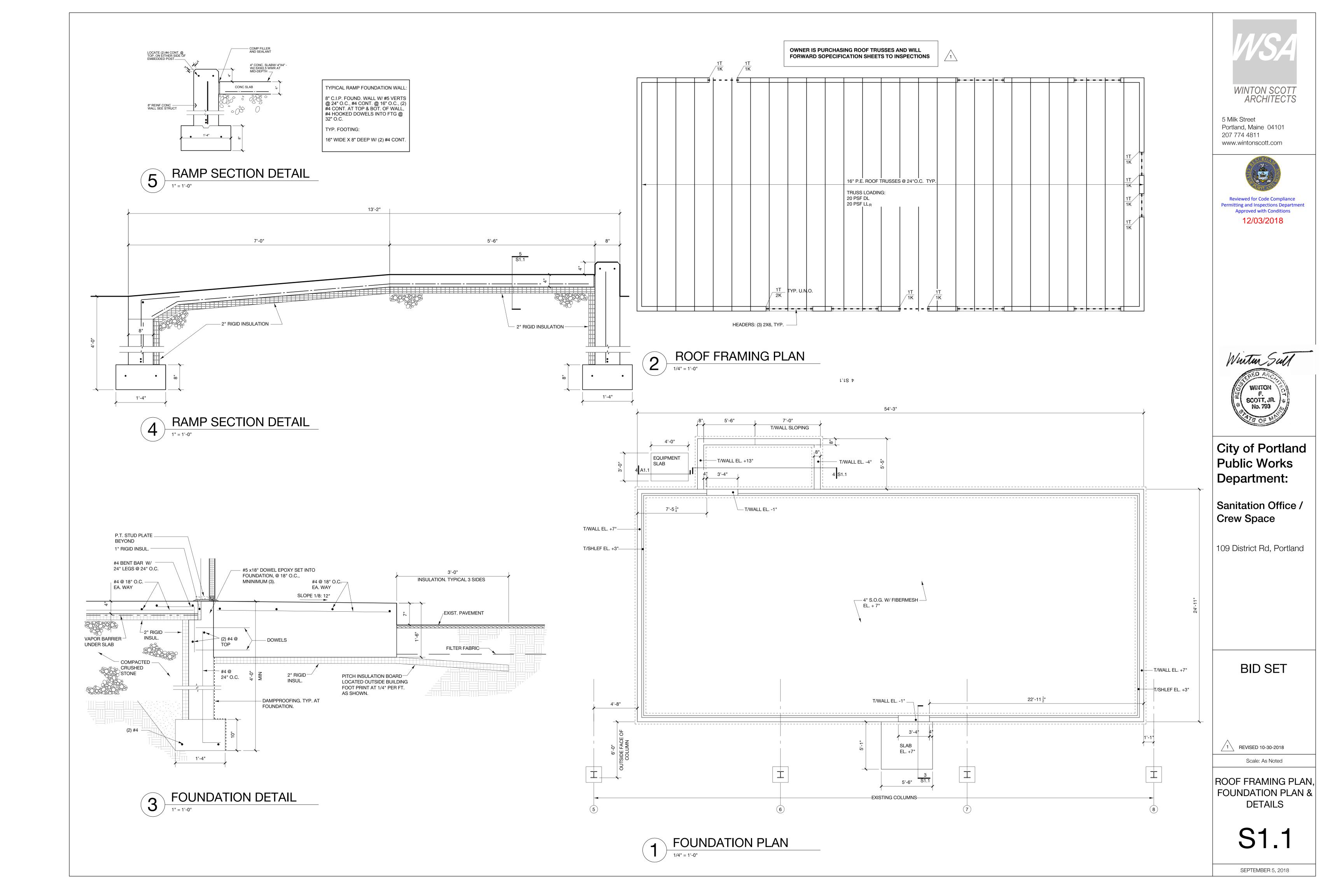
SEPTEMBER 5, 2018















Structural Engineering: SRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

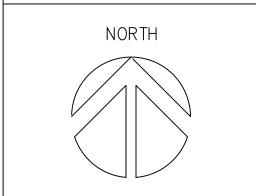
46 Forest Avenue Portland, ME 04101 T. 207.774.4614 structuralinteg.com

HVAC & Plumbing Engineering: MECHANICAL SYSTEMS **ENGINEERS** 

Royal River Center, Unit 10B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering: SWIFT CURRENT ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280



City of **Portland** Public Works Department:

Saniitation Office / Crew Space

109 District Rd. Portland, ME 04103

**MECHANICAL** SHEETMETAL PLAN

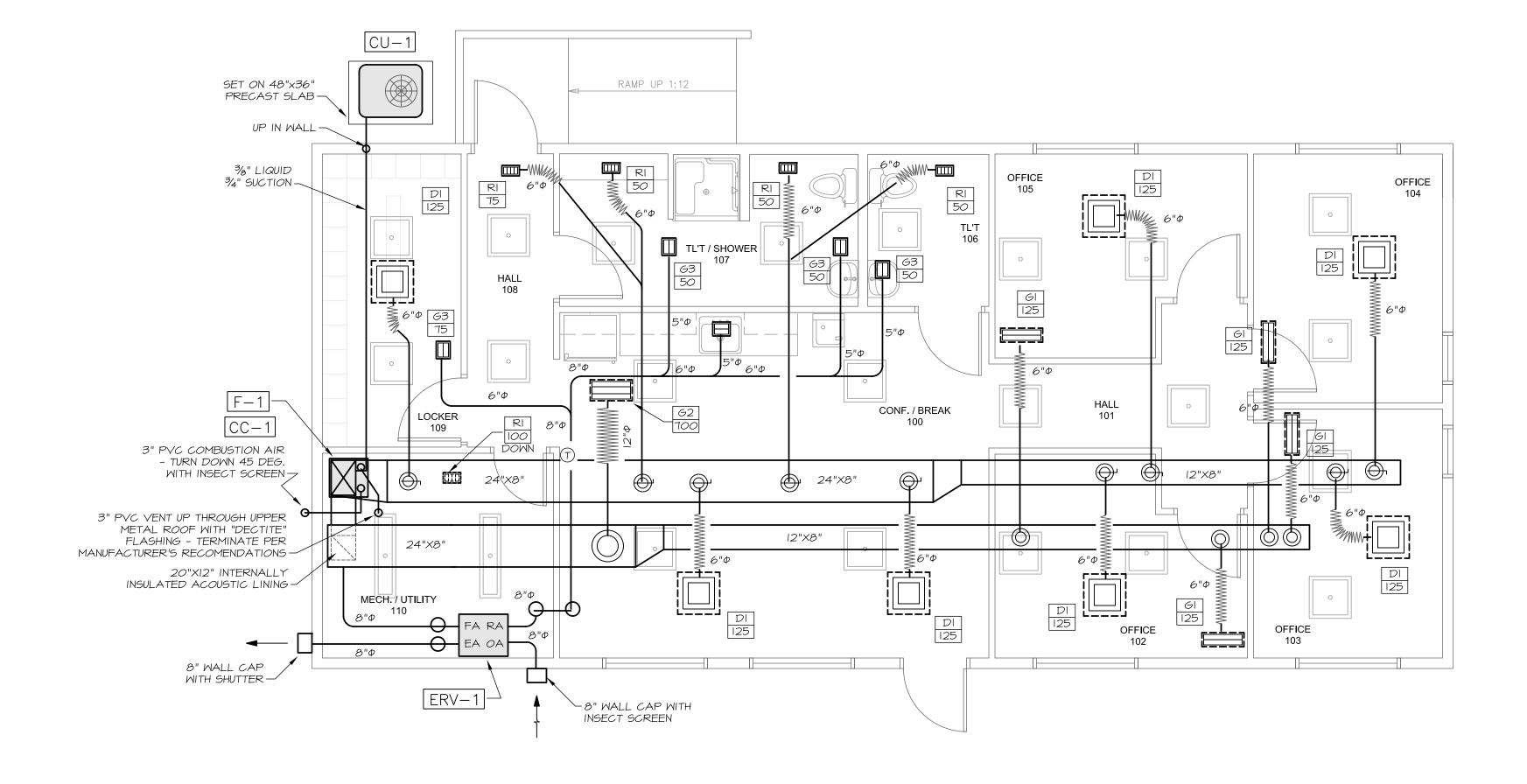
**BID SET** 

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

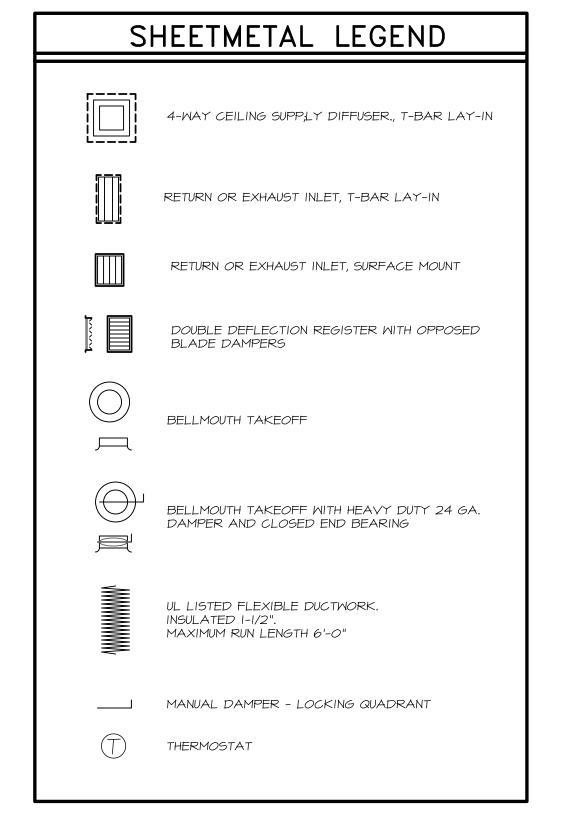
M1

SEPTEMBER 05, 2018

















Structural Engineering: SRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

HVAC & Plumbing Engineering:

Royal River Center, Unit 10B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering: SWIFT CURRENT ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive

NORTH

Yarmouth, ME 04096

T. 207.847.9280

City of

**Portland** 

Public Works

Department:

Crew Space

109 District Rd.

**MECHANICAL** 

**DETAILS &** 

SECTIONS

Portland, ME 04103

Saniitation Office /

46 Forest Avenue

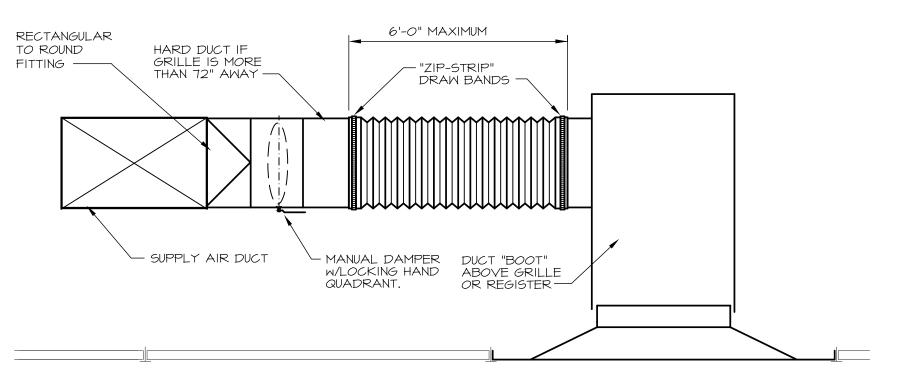
T. 207.774.4614

structuralinteg.com

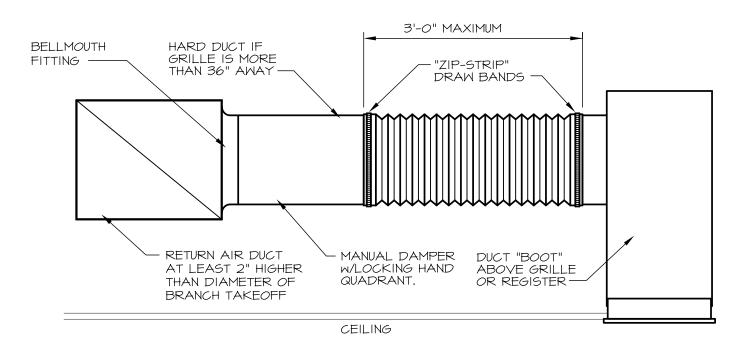
MECHANICAL SYSTEMS

**ENGINEERS** 

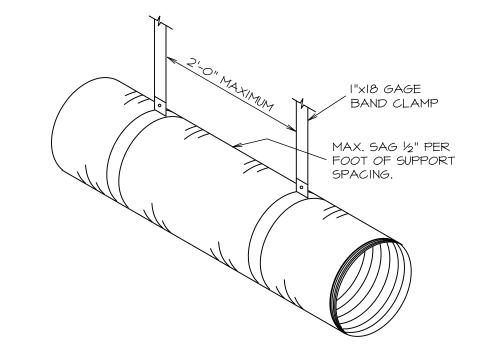
Portland, ME 04101



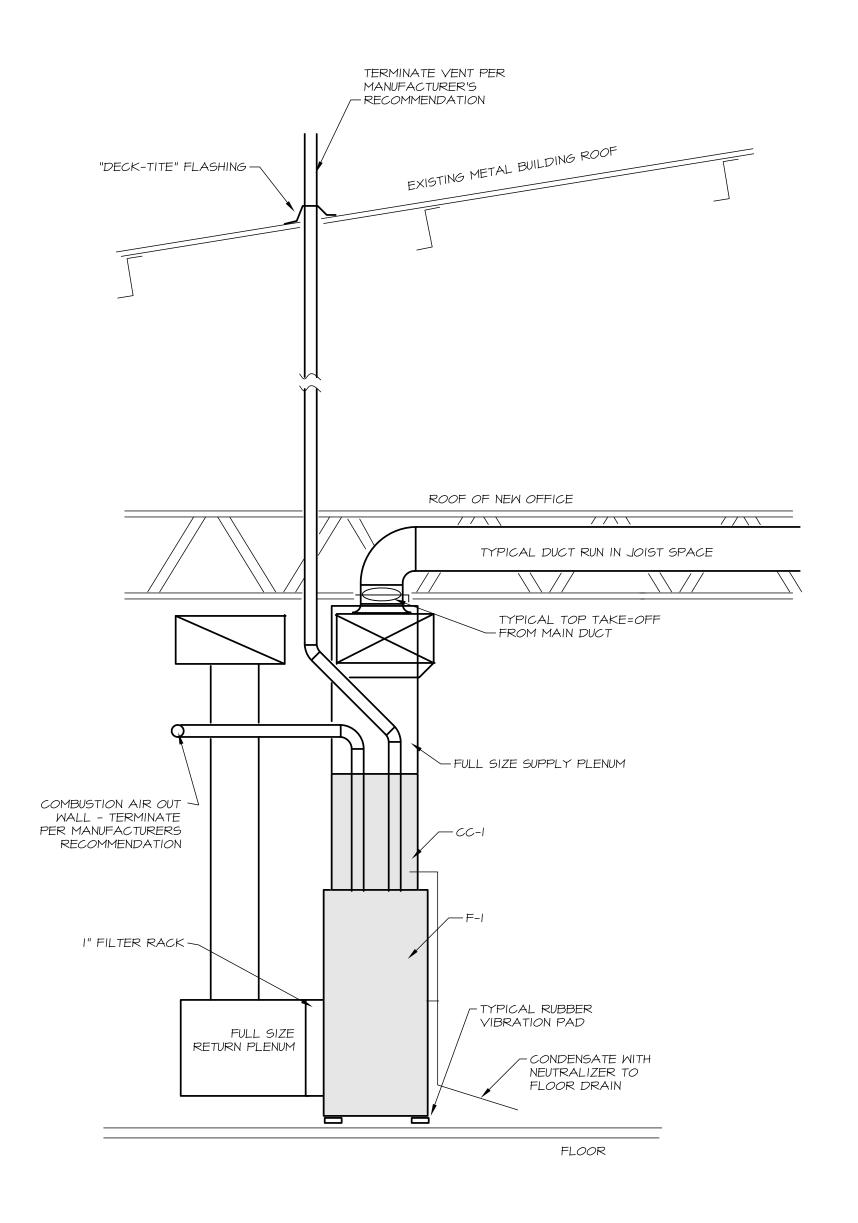
FLEXIBLE DUCT & DIFFUSER CONNECTION DETAIL NO SCALE



(2) FLEXIBLE DUCT & RETURN REGISTER CONNECTION



(3) FLEXIBLE DUCT SUPPORT DETAIL NO SCALE



F-I & CC-I SECTION VIEW



Proj. 1827

M2

SEPTEMBER 05, 2018

**BID SET** 

Scale: NO SCALE



MECHANICAL SYSTEMS ENGINEERS

ROYAL RIVER CENTER, UNIT 10B
10 FOREST FALLS DRIVE, YARMOUTH, MAINE 04096
(207) 846 1444 (207) 846-1441

FACEBOOK: MECHANICAL SYSTEMS ENGINEERS
CELEBRATING 50 YEARS IN BUSINESS © COPYRIGHT 2018





ARCHITECTS	

> Structural Engineering: SRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

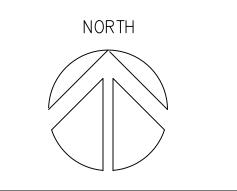
46 Forest Avenue Portland, ME 04101 T. 207.774.4614 structuralinteg.com

HVAC & Plumbing Engineering: MECHANICAL SYSTEMS **ENGINEERS** 

Royal River Center, Unit 10B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering: SWIFT CURRENT ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280



City of Portland Public Works Department:

Saniitation Office / Crew Space

109 District Rd. Portland, ME 04103

**MECHANICAL** SCHEDULES & NOTES

**BID SET** 

Scale: NO SCALE

M3

SEPTEMBER 05, 2018

							GAS I	FURNA	ACE S	SCHEDULE
TAG DESIGN MANUFACTURER BTUH BTUH OUTPUT AFUE FUEL CFM E.S.P. MOTOR HP POWER REMARKS										
F-I	TRANE TUXIBO8OA9H3IB	80,000	74,000	92 %	LP GAS.	1,200	0.50"	1/2	115/60/1	CONDENSING FURNACE SEALED COMBUSTION W/ SIDE RETURN FILTER BOX AND ECM MOTOR

	COOLING COIL	SCHE	DULE	-
TAG	DESIGN MANUFACTURER & MODEL	TOTAL BTUH	SEER	REMARKS
CC-I	TRANE TO MATCH FURNACE AND MEET SEER SPECIFIED	36,000	13	CASED COIL WITH TX VALVE

	CONDENSING UNIT SCHEDULE											
TAG	DESIGN MANUFACTURER	NOMINAL	NUMBER OF	DEEDIGEDANT	EL	ECTRIC		WEIGHT	DEMARKS			
TAG	& MODEL	SIZE	CIRCUITS	REFRIGERANT POWER		MCA	MOP	WEIGHT	REMARKS			
CU-I	TRANE 4TTR3036HI00N	3.0 TONS	ı	410A	208/60/1 18 30			175 LBS	MATCH WITH COOLING COIL FOR MINIMUM 13 SEER			

	ENERGY RECOVERY VENTILATOR SCHEDULE													
TAG	DESIGN MANUFACTURER	RECOVERY	EFFECTIVENESS		WINTER O.A.		EXHAUST AND SUPPLY		ELECTRIC		WEIGHT	REMARKS		
TAG	AND MODEL	TYPE	SENSIBLE	WINTER	SUMMER	ТЕМР.	GRAINS	EXHAUST	SUPPLY	POWER	FLA	WLIGITI	REMARKS	
ERV-I	RENEWAIRE EV300	RENEWAIRE EV300 CORE 10% 63% 41% -5 2.5 275 275 II5/60/I 3.3I 85 LBS WITH MERV 8 I" PLEATED FILTERS, EXHAUST & OUTSIDE AIR BACK DRAFT DAM												

	AIR TERMINAL SCHEDULE												
TAG	MANUFACTURER & MODEL	SIZE	MAX NC	MAX SP	REMARKS								
DI	PRICE SMD3P	6"X6"	20	.07	T-BAR MOUNT CEILING DIFFUSER								
RI	PRICE 520SD	12"X8"	20	.07	DOUBLE DEFLECTION SUPPLY REGISTER WITH DAMPER								
GI	PRICE 530	22"X8"	20	.07	45 DEGREE RETURN GRILLE FOR LAY-IN T-BAR MOUNT								
G2	PRICE 530	22"XI2"	20	.07	45 DEGREE RETURN GRILLE FOR LAY-IN T-BAR MOUNT								
<i>G</i> 3	PRICE 530	10"X6"	20	.07	45 DEGREE RETURN GRILLE FOR SURFACE MOUNT								

## SHEETMETAL NOTES

- All ductwork to be fabricated and installed per SMACNA Low Pressure Ductwork Standards.
- Ductwork is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- 3. All square elbows are to be installed with turning vanes.
- Flexible ductwork to be insulated with I-I/2" fiberglass duct wrap with foil-faced vapor barrier. Flexible ductwork to be UL181 listed and limited to a maximum run of 6'-0".
- 5. All supply ductwork to be insulated with 1-1/2" fiberglass duct wrap with foil faced vapor barrier.

## PIPING NOTES

- Piping is shown diagrammatically and does not indicate all the offsets, rises and drops that will be required.
- 2. All refrigerant piping to be Type "K" copper or ACR tube.
- 3. All refrigerant suction line piping to be insualated with Closed cell (Armaflex) or equal -3/4"
- All outdoor refrigerant insulation to be painted with a paint approved by the insulation manufacturer.
- 5. All condenste piping to be Schedule 40 PVC plastic.
- 6. Provide and install condensate piping to the condensing gas furnaces and the cooling coils.
- 7. Provide a condensate neutralizing kit with all furnaces.

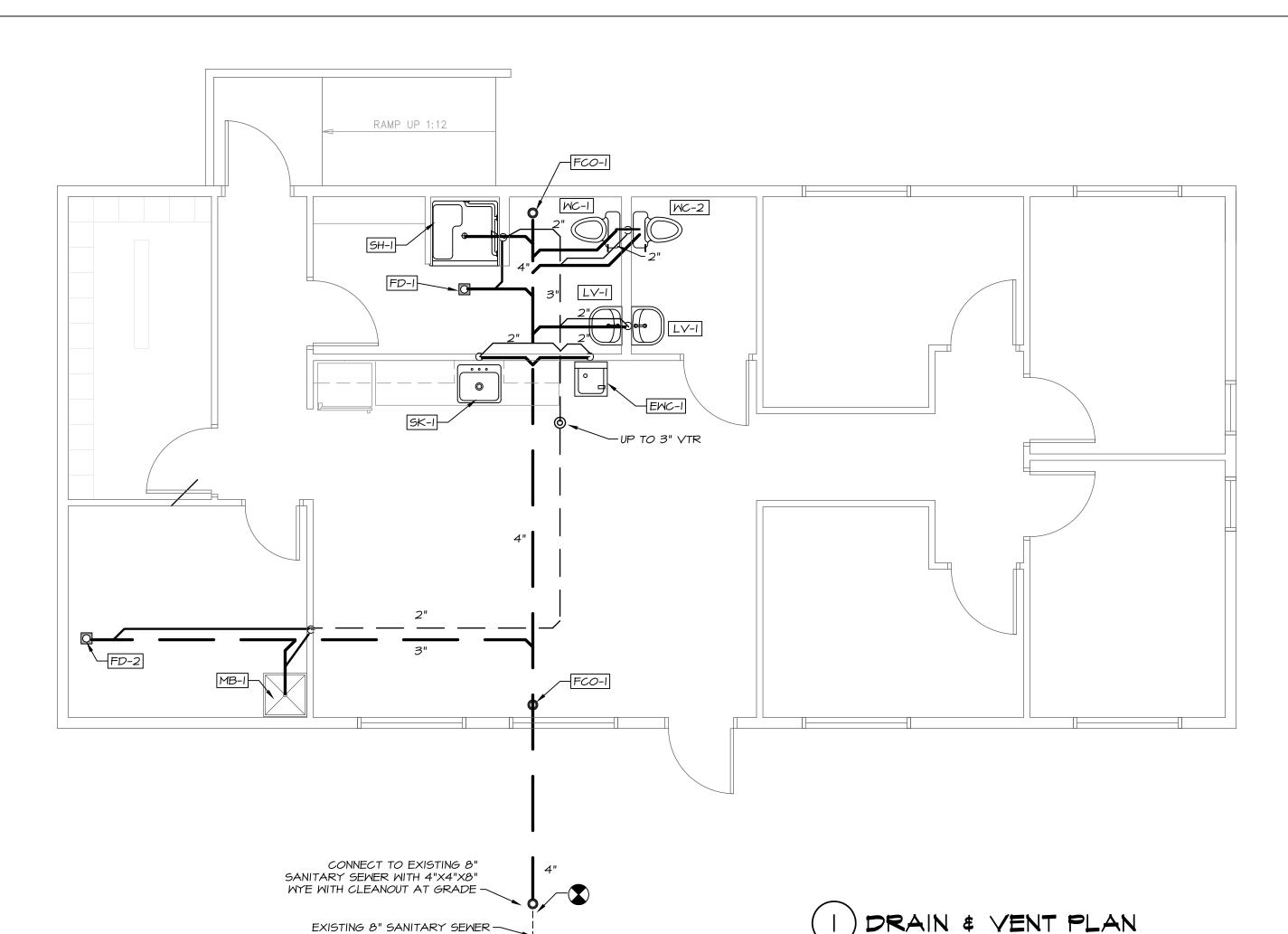
## CONTROL NOTES

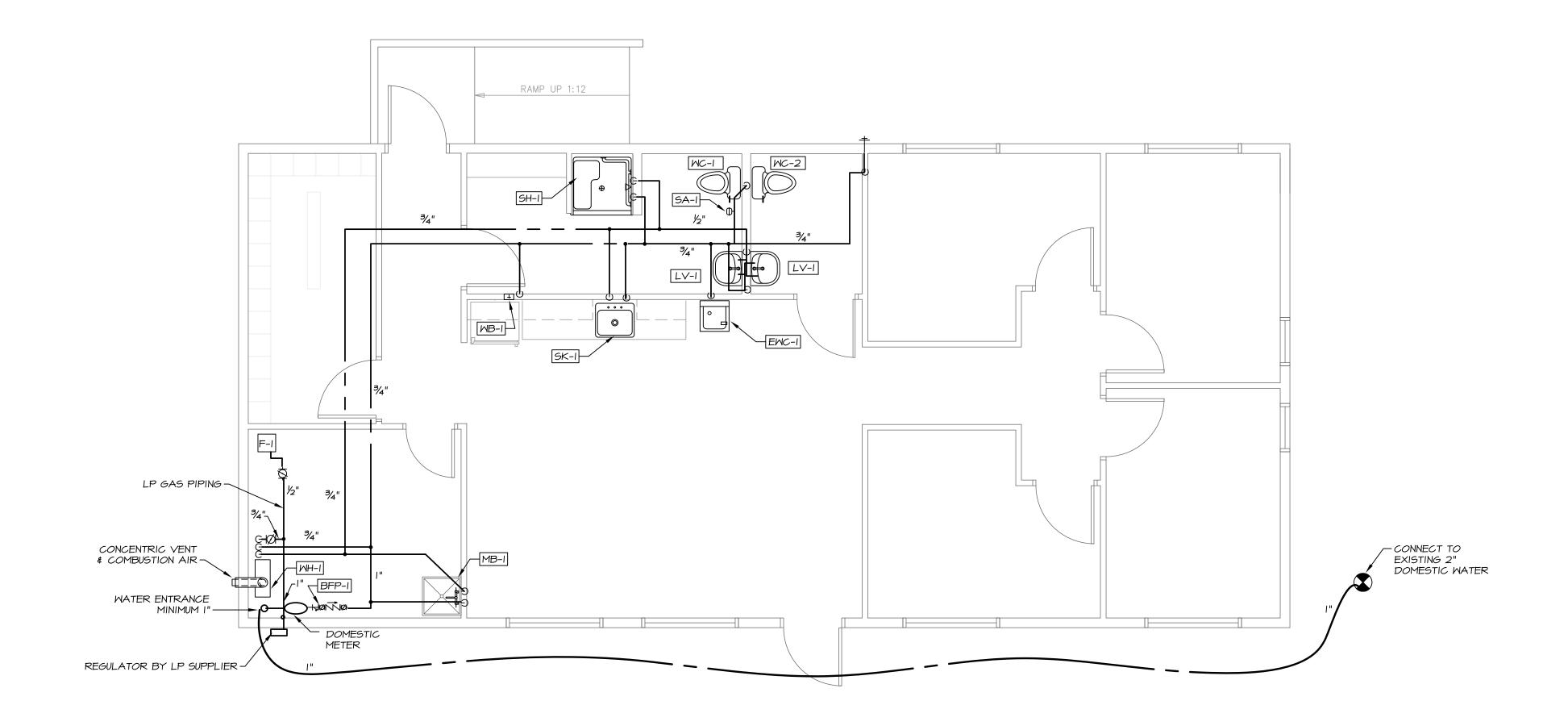
- It will be the Mechanical Contractor's responsibility to provide and install all controls and all control wiring.
- 2. All control wiring that is run in concealed spaces to be plenum rated.
- All control wiring that is run exposed shall be in electrical conduit provided and installed by the mechanical
- 4. All thermostats to be electronic programmable with 7-day programming. Set up indoor fans to run continuously during the occupied cycle. Indoor fans during the unoccupied cycle to only run on a call for heating or cooling.
- ERV-I to be off during the unoccupied cycle. During the occupied cycle as determined by Thermostat serving F-2 (offices) energize ERV-I

## GENERAL NOTES

- I. All systems are to be to meet the following Codes and
- ASHRAE 90.1 2013 Energy Standard for Commercial
- ASHRÁE 60.1 2013- Standard for Indoor Air Quality in
- Commercial Buildings. 2009 IECC International Energy Conservation Code. NFPA National Fire Protection Association Standards.
- 2. Do not cut any structural members without pre-approval of
- structural engineer.







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

DOMESTIC WATER & GAS PLAN





## GENERAL NOTES

- I. All work shall be in accordance with the State Plumbing Code, local codes and ordinances, National Fire Code (NFPA), or these plans or specifications, whichever is more strict.
- 2. All drawings are schematic only, and are intended to indicate the intent, extent, and general arrangement of work. They are not meant to show every fitting, change of direction or every situation. Verify locations in the field. Work indicated shall be furnished complete to perform the function intended.
- 3. Carefully coordinate the space requirements and location of piping with the other trade contractors. If coordination fails, conflicts will be decided in favor of the other contractors with this contractor relocating his piping and equipment at no expense to the Owner.
- 4. All plumbing fixtures shall be vented.
- 5. This contractor shall make all final plumbing connections to equipment/ fixtures provided by other contractors.
- 6. For pipe sizes not shown on floor plans, refer to adjacent or enlarged plans, then appropriate schedules and details, and as a minimum use actual equipment connection sizes. For otherwise indeterminable pipe segments, the size shall be the same as the largest adjacent segment. Where pipe sizes are erroneously shown to decrease then increase, the smaller segment shall be increased to match the larger segment. When a conflict exists, the larger size shall govern. Pipe sizes are nominal (not O.D.) unless specifically noted otherwise.
- 7. All piping shall run concealed above ceilings, in walls, in soffits and in chases unless noted otherwise.
- 8. No structural members shall be cut without approval of the Architect.
- 9. All plumbing shall be supported from the building structure. All piping drops to fixtures shall be anchored solid to walls with a steel support bracket with adjustable clip. Hangers longer than 12" will be seismically braced if required by the International Building Code.
- 10. All water piping shall be installed parallel to building lines and pitched to low points. Provide draw-offs at low points. Piping shall be run neatly grouped together when practical.
- II. All piping through roofs, concrete walls and masonry partitions shall have steel pipe sleeves. Openings between pipes and sleeves shall be caulked and sealed smoke and water tight. All pipe penetrations through a fire rated wall or floor shall have a UL rated fire stop system rated to match the rating of the wall assembly, as per the NFPA.
- 12. All wall mounted fixtures shall be carrier mounted unless otherwise
- 13. All above ground domestic water piping shall be insulated unless otherwise specified.
- 14. Run all water and drain piping on warm side of building insulation. No lines shall be run in exterior walls, unless directly indicated, and protected.
- 15. Provide shock absorbers where shown on drawings, and on the tops of risers/drops to all flushvalve water closets and urináls, dishwashers and clotheswashers. Sizes shall conform to P.D.I. standards.
- 16. All sanitary waste piping less than 4" shall pitch down at  $\frac{1}{4}$ " per L.F. All 4" and larger piping shall pitch at  $\frac{1}{4}$ " per L.F. unless permission to run at 1/8" per L.F is obtained from the Code Enforcement Officer.
- 17. Any copper domestic water piping shall be type "K" or "L" copper, type "M" is prohibited.

#### 5 Milk Street, Portland, ME 04101 207.774.4811 | winstonscott.com

Structural Engineering: SRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

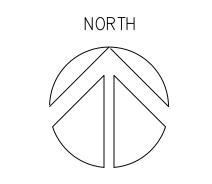
46 Forest Avenue Portland, ME 04101 T. 207.774.4614 structuralinteg.com

HVAC & Plumbing Engineering: MECHANICAL SYSTEMS **ENGINEERS** 

Royal River Center, Unit 10B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering: SWIFT CURRENT ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280



## City of Portland Public Works Department:

## Saniitation Office / Crew Space

109 District Rd. Portland, ME 04103

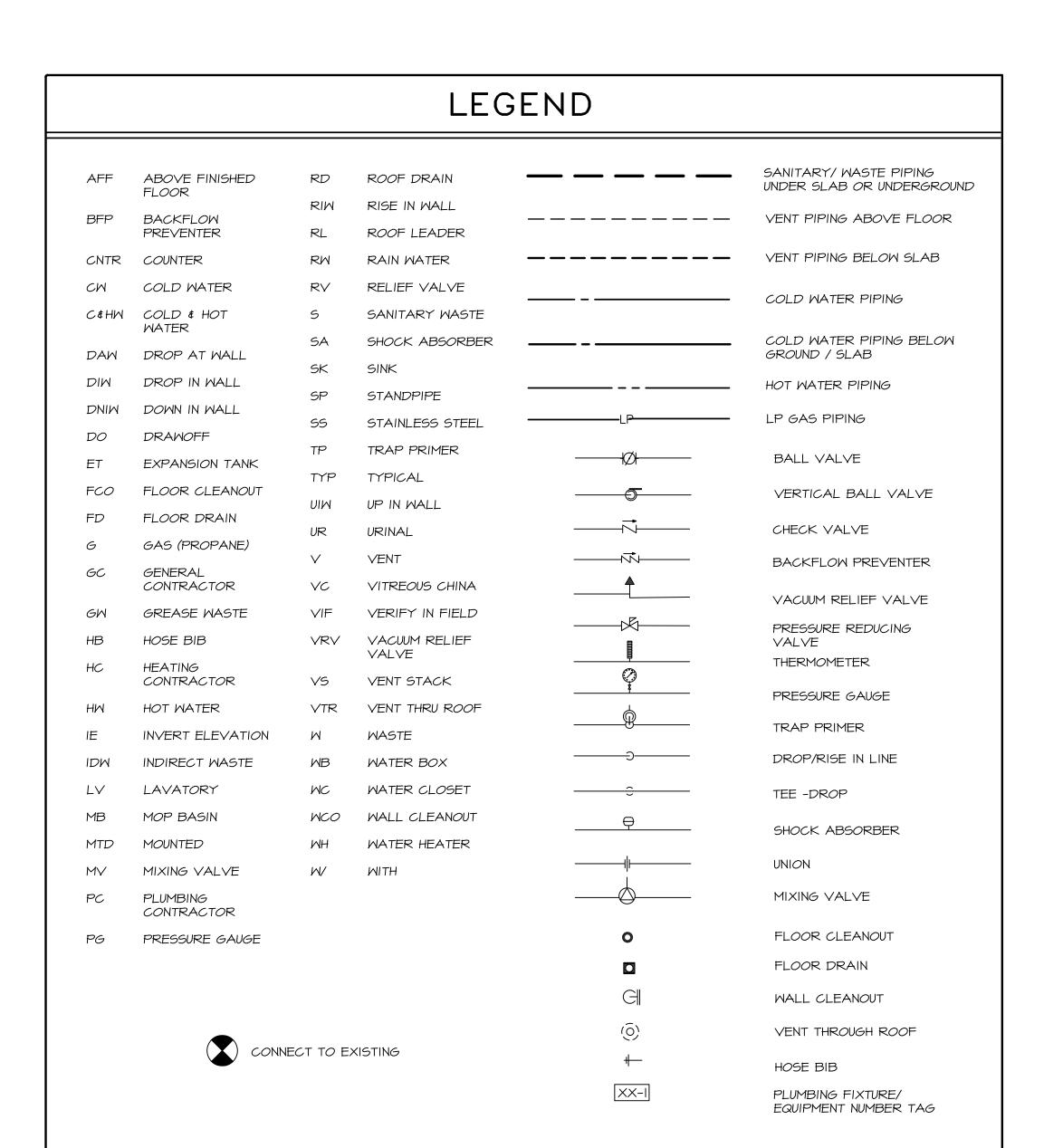
### PLUMBING PLAN & NOTES

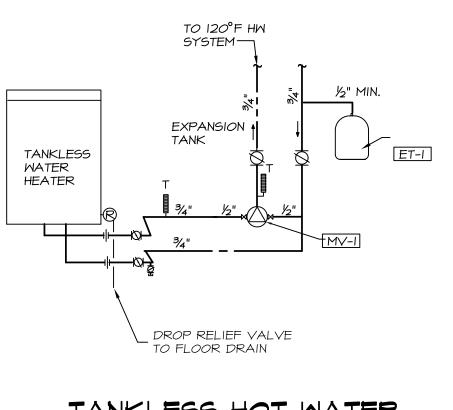
**BID SET** 

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

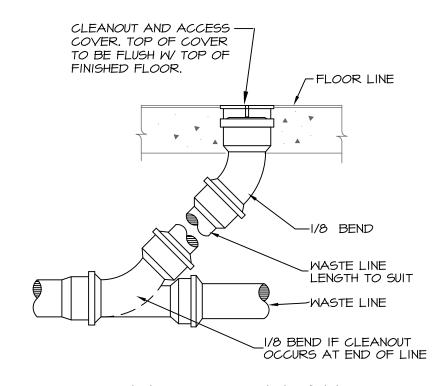


















> Structural Engineering: SRUCTURAL INTEGRITY CONSULTING ENGINEERS, INC.

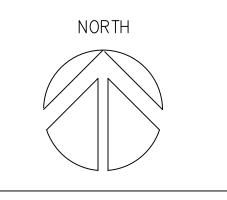
46 Forest Avenue Portland, ME 04101 T. 207.774.4614 structuralinteg.com

HVAC & Plumbing Engineering: MECHANICAL SYSTEMS **ENGINEERS** 

Royal River Center, Unit 10B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

Electrical Engineering: SWIFT CURRENT ENGINEERING SERVICES

Royal River Center, Unit 8B 10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280



City of Portland Public Works Department:

Saniitation Office / **Crew Space** 

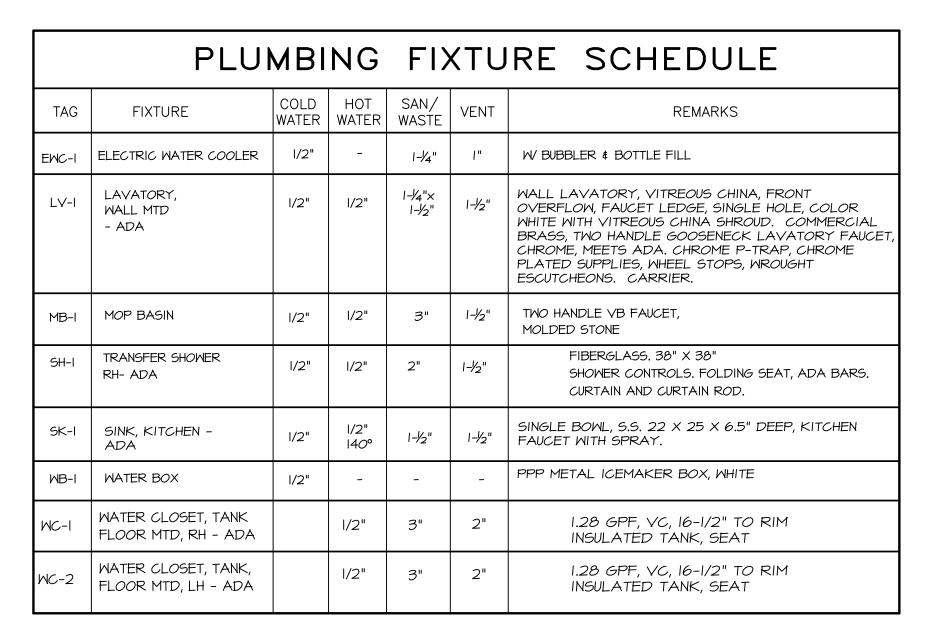
109 District Rd. Portland, ME 04103

PLUMBING DETAILS, SCHEDULES & LEGEND

**BID SET** 

Scale: NONE

P2



WA	WATER HEATER SCHEDULE											
TAG	ITEM	GAS	GPM	TEMP	VOLTS	REMARKS						
MH-I	TANKLESS WATER HEATER	199,000 BTU	5 @ 80° RISE	120°	II5	RINNAI MODEL CI99I COMMERCIAL CONDENSING WATER HEATER, ¾" INLET / OUTLET, PVC VENT LINES THROUGH WALL						

	DRAIN SPE	C.	SC	HEDULE
TAG	ITEM	WASTE	VENT	SPEC. & REMARKS
FCO-I	ROUND, ADJUSTABLE, SOLID TOP FLOOR CLEANOUT	SIZE OF PIPE	ı	ZURN ZN-1400-BP NICKEL NICKEL BRONZE TOP
FD-I	ROUND, ADJUSTABLE, FINISHED FLOOR & SHOWER DRAIN	3"	1-1/2"	ZURN ZN-415-6B-P NICKEL BRONZE TOP
FD-2	INDIRECT WASTE, ADJUSTABLE, RECESSED GRATE FLOOR DRAIN	3"	1-1/2"	ZURN ZN-415-71-P NICKEL BRONZE TOP

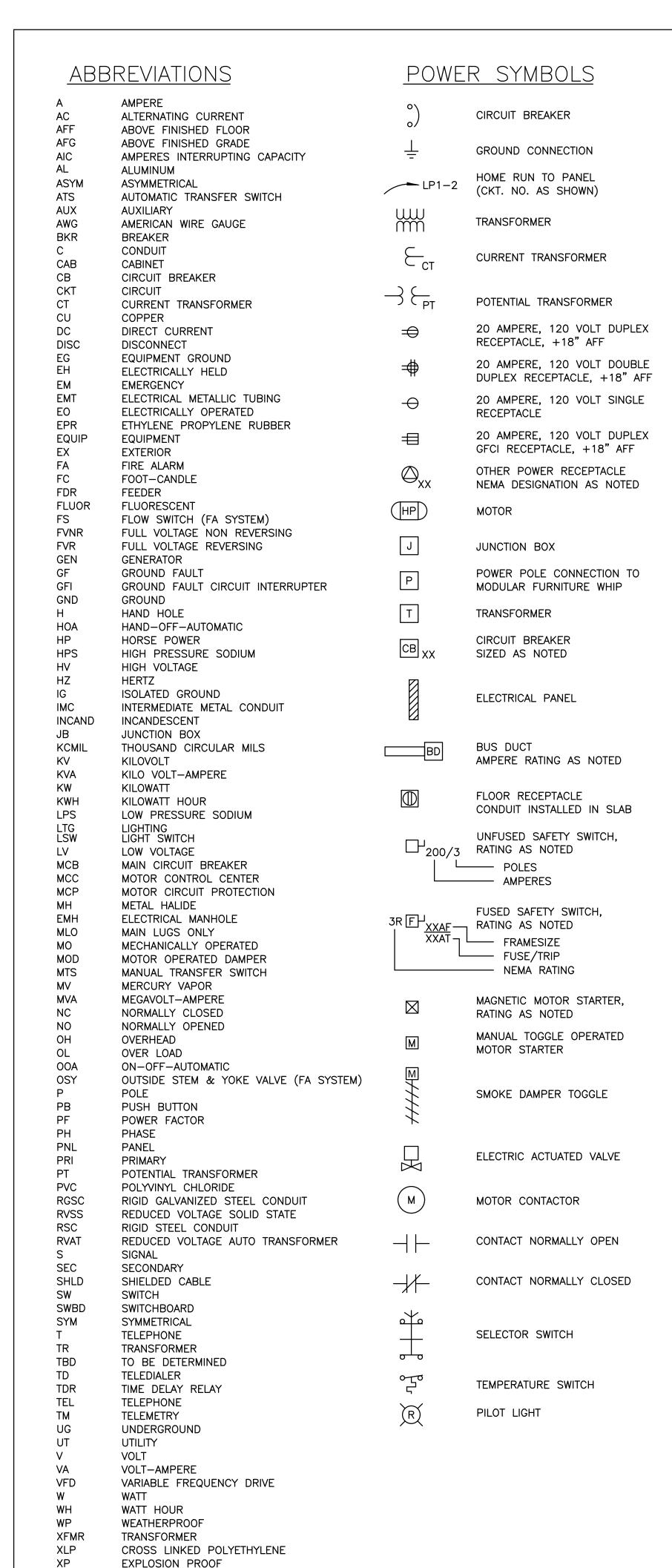
\	WATER SE	PEC	.TY	SCHEDULE				
TAG	ITEM	CW	HW	OUTLET	SPECIFICATION & REMARKS			
BFP-I	BACKFLOW PREVENTER	1 1/2"	-	-	RPZ TYPE			
ET-I	EXPANSION TANK	1/2"	-	-	0.85 GAL ACCEPTANCE			
#B-I	NON-FREEZE HOSE BIB W/ VB	3/4"	-	3/4" GHT				
MV-I	MASTER MIXING VALVE	1/2"	1/2"	1/2" 120°	THERMOSTATIC W/ CHECK STOPS			
SA-I	SHOCK ABSORBER	1/2" 0	R 3/4"	-	BELLOWS TYPE WATER HAMMER ARRESTOR			

0' 1' 2' 3' 4'

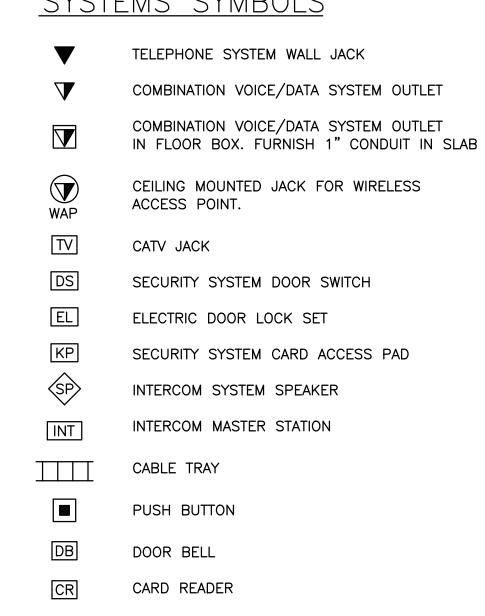


(207) 846-1441

© COPYRIGHT 2018



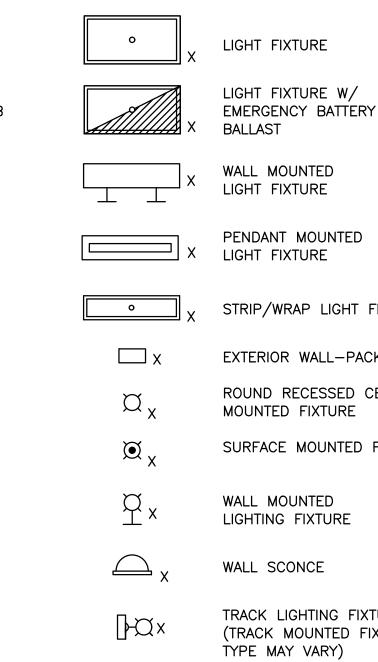
## SYSTEMS SYMBOLS



CAMERA

-4D = 4 CAMERA DOME

## LIGHTING SYMBOLS



EMERGENCY LED EXIT SIGN

COMBINATION EMERGENCY

WITH DUAL LAMPS HEADS

WITH DUAL LAMPS HEADS

BATTERY AND CHARGER

REMOTE EMERGENCY

LIGHT SWITCH

LIGHT SWITCH

TIME CLOCK

PHOTOCELL

ULTRASONIC/INFRARED

--- C = CEILING MOUNTED

W = WALL MOUNTED

48" AFF (TO TOP)

OCCUPANCY SENSOR

LIGHTING CONTACTOR

Sp a

LIGHTING LAMP HEAD

BATTERY AND CHARGER

EXIT SIGN & LIGHTING FIXTURE

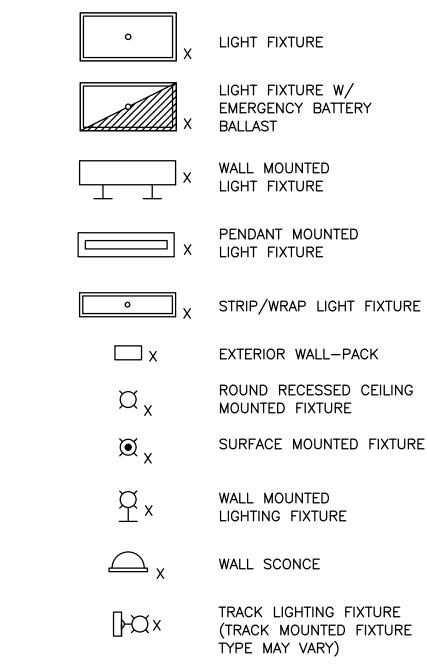
EMERGENCY LIGHTING FIXTURE

DENOTES FIXTURE SWITCHED

--- P = PILOT LIGHT (WHERE NOTED)

3 = 3 - WAY (WHERE NOTED)

4 = 4 - WAY (WHERE NOTED)

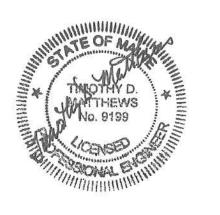


## GENERAL NOTES

- 1. ALL WORK SHALL BE IN COMPLIANCE WITH NFPA-70, NATIONAL ELECTRICAL CODE.
- 2. ALL MOTOR SAFETY SWITCHES, DISCONNECTS AND MOTOR STARTERS ARE FURNISHED BY DIVISION 16000 UNLESS NOTED AS FURNISHED WITH EQUIPMENT (FWE).
- 3. ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH A UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN THE RATING OF THE SEPARATION.
- 4. LIGHTING TOGGLE SWITCHES SHALL BE COMMERCIAL SPECIFICATION GRADE, 120 VOLT, SIDE WIRED AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- 5. CONVENIENCE RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS SHOWN OTHERWISE, GROUNDING TYPE, NEMA 5-20R, SIDE WIRED, AS MANUFACTURED BY LEVITON, PASS & SEYMOUR, OR APPROVED EQUAL.
- 6. DEVICE COVERPLATES SHALL BE BRUSHED STAINLESS STEEL COVERPLATES. ALL DEVICES SHALL BE WHITE.
- 7. UNLESS OTHERWISE NOTED ALL HOMERUNS FOR 15 OR 20A CIRCUITS SHALL BE 2#12AWG & #12GND. HOMERUNS FED FROM 20A, 1P CIRCUITS IN EXCESS OF 100 FEET (FOR 120V CIRCUITS) SHALL BE #10AWG. ALL WIRING SHALL BE COPPER.
- 8. CONDUIT SYSTEMS: EXPOSED INTERIOR CONDUITS SHALL BE EMT, 3/4" MINIMUM. PROPERLY SUPPORTED MC CABLE ASSEMBLIES MAY BE USED ABOVE CEILINGS AND IN WALLS. FLEXIBLE LIQUIDTIGHT CONDUIT WHIPS SHALL BE USED FOR CONNECTION TO VIBRATING EQUIPMENT IN THE MECHANICAL ROOM.
- 9. MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS FOLLOWS:
  - CONVENIENCE RECEPTACLES: 18" AFF TO BOTTOM OF BOX LIGHTING TOGGLE SWITCHES: 48" AFF TO TOP OF BOX
    - Reviewed for Code Compliance



5 Milk Street Portland, Maine 04101 207 774 4811 www.wintonscott.com



Electrical Engineering:

**Permitting and Inspections Departmen** 

Approved with Conditions

12/03/2018

SWIFTCURRENT ENGINEERING Royal River Center, Unit

10 Forest Falls Drive Yarmouth, ME 04096 T. 207.847.9280

HVAC & Plumbing Engineering:

MECHANICAL SYSTEMS ENGINEERS Royal River Center, Unit

10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

CITY OF PORTLAND PUBLIC WORKS DEPARTMENT:

Sanitation Office/ Crew Space

109 District Rd. Portland

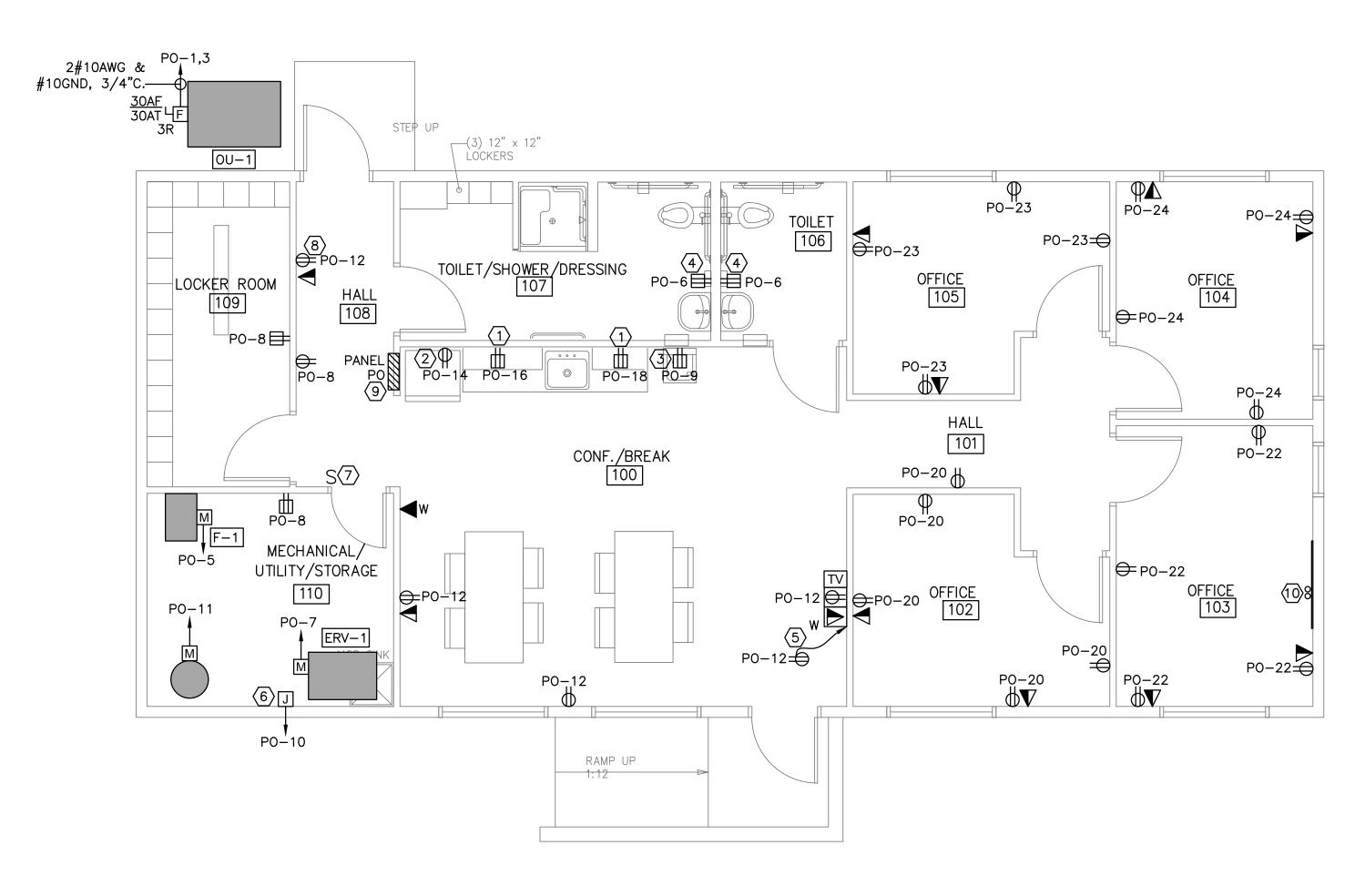
BID SET - 9/5/18

SEPTEMBER 5th, 2018

ELECTRICAL GENERAL NOTES & LEGEND

Scale: As Noted

E0.0



## 1 ELECTRICAL POWER & SYSTEMS PLAN SCALE: 1/4"=1"

	KVA	LOAD	*	AMPS	 	AMPS	#	KVA	LOAD			
DIRECTORY	Α	В	R F	BKR	PHASE	BKR	CKT	A B		DIRECTORY		
CU-1	1.9		1 30		Α	20	2	0.4		LOCKER/CONF. RN	I LTS.	
CU-1		1.9	3	30	В	20	4		0.4	OFFICE LTS.		
F-1	1.2		5	20	Α	20	6	0.4		TOILET RECEPTS		
ERV-1		0.4	7	20	В	20	8		0.4	LOCKER/MECH RECEPTS		
WATER FOUNTAIN	0.6		9	20	Α	20	10	1.0		MECH CONTROLS		
HWH		0.1	11	20	В	20	12		0.8	CONF./BREAK RECEPTS		
SPARE	*		13	20	Α	20	14	0.5		REFRIGERATOR		
SPARE		*	15	20	В	20	16		0.2	COUNTERTOP RECEPTS		
SPARE	*		17	20	Α	20	18	0.2		COUNTERTOP RECEPTS		
SPARE		*	19	20	В	20	20		1.0	OFFICE 102/HALL	101 RECEPTS	
SPARE	*		21	20	Α	20	22	0.8		OFFICE 103 RECE	PTS	
OFFICE 105 RECEPTS		*	23	20	В	20	24		0.8	OFFICE 104 RECE	PTS	
SUBTOTAL	3.7	3.3						3.3	3.6	SUE	BTOTAL	
VOLTAGE: 120Y/240V PHASE: 1		POL	ES: 3		TOTAL	KVA A	-PHASE	7	.0	PANEL	PO	
MAIN BREAKER: 100A BUS AM		AMPS:	100A	TOTAL	. KVA B	-PHASE	6	.9	PANEL	P0		
MOUNTING: RECESSED								LOCATION	MECHANICAL ROOM			
SHORT CIRCUIT RATING: 10KAIC				SHORT CIRCUIT RATING: 10KAIC			TOTAL KVA			LOCATION	MECHANICAL ROOM	



100A 120/240V 1-PHASE 3-WIRE MCB 10KAIC

\100A

MDP (EXISTING) 800A, 120/240V,

3#2/0AWG CU & #4GND, 2"C.

1-PHASE, 3-WIRE, 18KAIC

IEDULE E

## NOTES:

- 1. SEE EO.O FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- 2. TELEPHONE, DATA AND CATV SERVICE TO BE COORDINATED WITH LOCAL UTILITY. EXISTING TRAILER ON SITE IN SAME LOCATION ALREADY HAS SERVICE.
- 3. INTENT IS TO FEED THIS OUT OF THE NEW MDP PANEL AT THE EAST END OF THE BUILDING, CURRENTLY UNDER CONSTRUCTION. THIS PROJECT SHALL BE COMPLETED PRIOR TO ENERGIZING NEW OFFICE STRUCTURE. NOTE THAT THIS IS APPROXIMATELY 540' CIRCUIT FEET AWAY FROM NEW PANEL LOCATION.

## KEYED NOTES:

- 1 MOUNT 6" ABOVE COUNTERTOP COORDINATE WITH BACKSPLASH.
- 2 REFRIGERATOR.
- 3 BOTTLE FILLER. COORDINATE LOCATION OF RECEPTACLE WITH EQUIPMENT FURNISHED.
- 4 MOUNT 48" AFF TO TOP OF BOX.
- 5 FURNISH THREE GANG RECESSED TV BOX. AS MANUFACTURED BY LEGRAND MODEL TV3WMTVSSW, OR EQUAL. MOUNT 60" AFF.
- 6 MECHANICAL CONTROLS COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- 7 WIRE EMERGENCY POWER SWITCH AND FIRETROL DEVICE AS REQUIRED BY CODE.
- (8) TIMECLOCK.
- 9 FURNISH CONDUIT PENETRATION THROUGH ROOF. DIRECTLY INTO PANEL.
- TELEPHONE/DATA BACKBOARD 4' X 4' MOUNTED 5' AFF MOUNT PUNCHDOWN BLOCK HERE. RUN AND TERMINATE ALL CAT6 TO BLOCK. FURNISH SERVICE MASTS (2)—3" GRS ALONG SIDE OF BUILDING PENETRATING WALL AT BACKBOARD FOR UTILITY DEMARCATION POINT.



Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

12/03/2018



5 Milk Street Portland, Maine 04101 207 774 4811 www.wintonscott.com



Electrical Engineering:

SWIFTCURRENT
ENGINEERING
Royal River Center, Unit
4B
10 Forest Falls Drive

HVAC & Plumbing Engineering:

Yarmouth, ME 04096 T. 207.847.9280

MECHANICAL SYSTEMS ENGINEERS Royal River Center, Unit 10

10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

CITY OF PORTLAND PUBLIC WORKS DEPARTMENT:

Sanitation Office/ Crew Space

109 District Rd, Portland

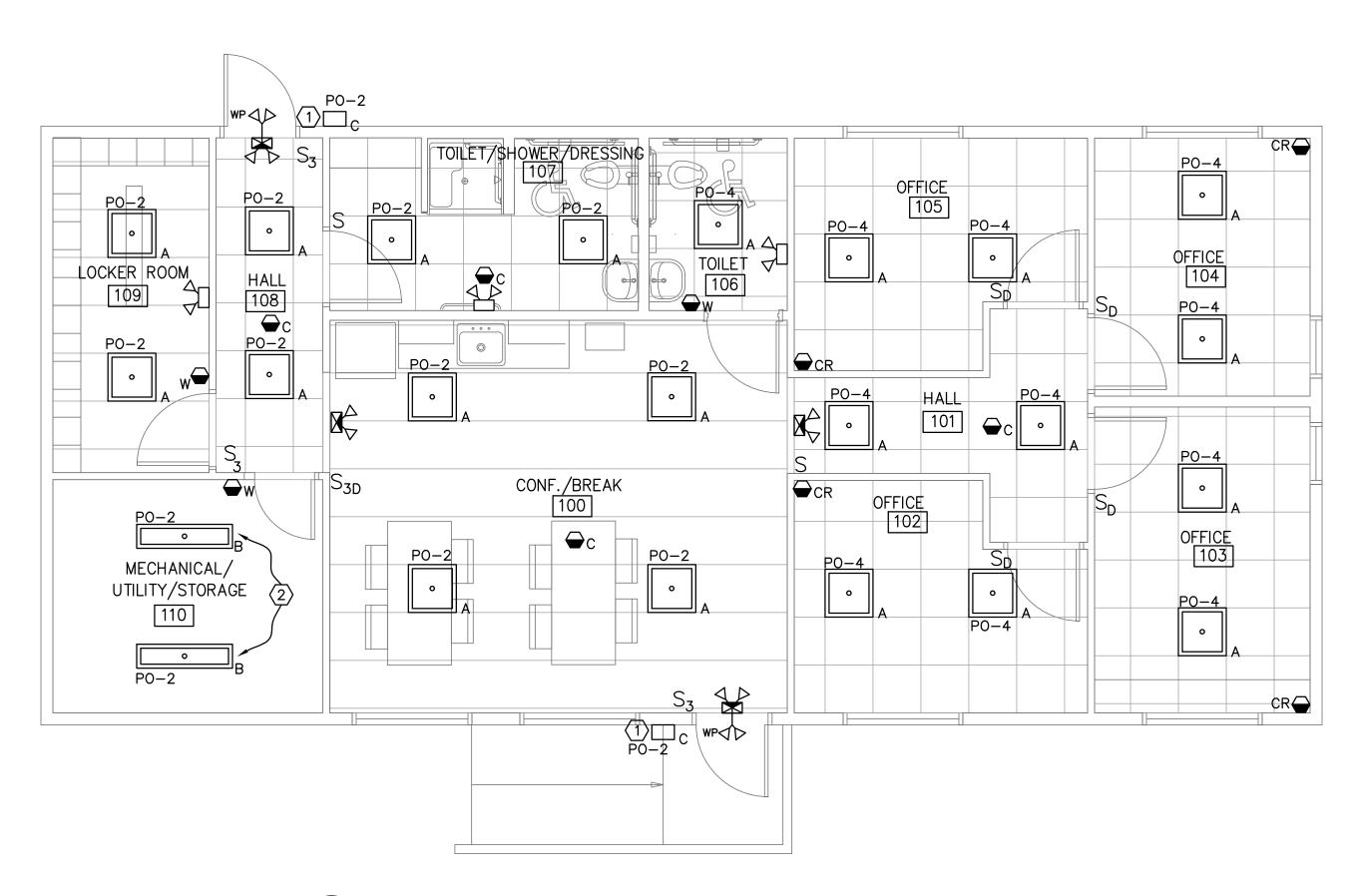
BID SET - 9/5/18

SEPTEMBER 5th, 2018

ELECTRICAL POWER & SYSTEMS PLAN, ONE—LINE DIAGRAM & PANEL SCHEDULES

Scale: As Noted

E1.0



ELECTRICAL LIGHTING & FIRE ALARM PLAN scale: 1/4"=1"

## NOTES:

1. SEE EO.O FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.

## KEYED NOTES:

(1) CONTROLLED BY PHOTOCELL WITH OVERRIDE IN MECHANICAL ROOM.

(2) MOUNT FIXTURES ON CEILING, COORDINATE EXACT LOCATION IN FIELD TO AVOID CONFLICTS WITH MECHANICAL DUCTWORK.



Reviewed for Code Compliance
Permitting and Inspections Department
Approved with Conditions

12/03/2018

THOTHY D.

WHITHEWS

WO. 9199

WINTON SCOTT ARCHITECTS

Portland, Maine 04101 207 774 4811

www.wintonscott.com

5 Milk Street

Electrical Engineering:

SWIFTCURRENT
ENGINEERING
Royal River Center, Unit
4B
10 Forest Falls Drive

Yarmouth, ME 04096 T. 207.847.9280

HVAC & Plumbing Engineering:

MECHANICAL SYSTEMS ENGINEERS Royal River Center, Unit

10 Forest Falls Drive Yarmouth, ME 04096 T. 207.846.1441

CITY OF PORTLAND PUBLIC WORKS DEPARTMENT:

Sanitation Office/

109 District Rd, Portland

Crew Space

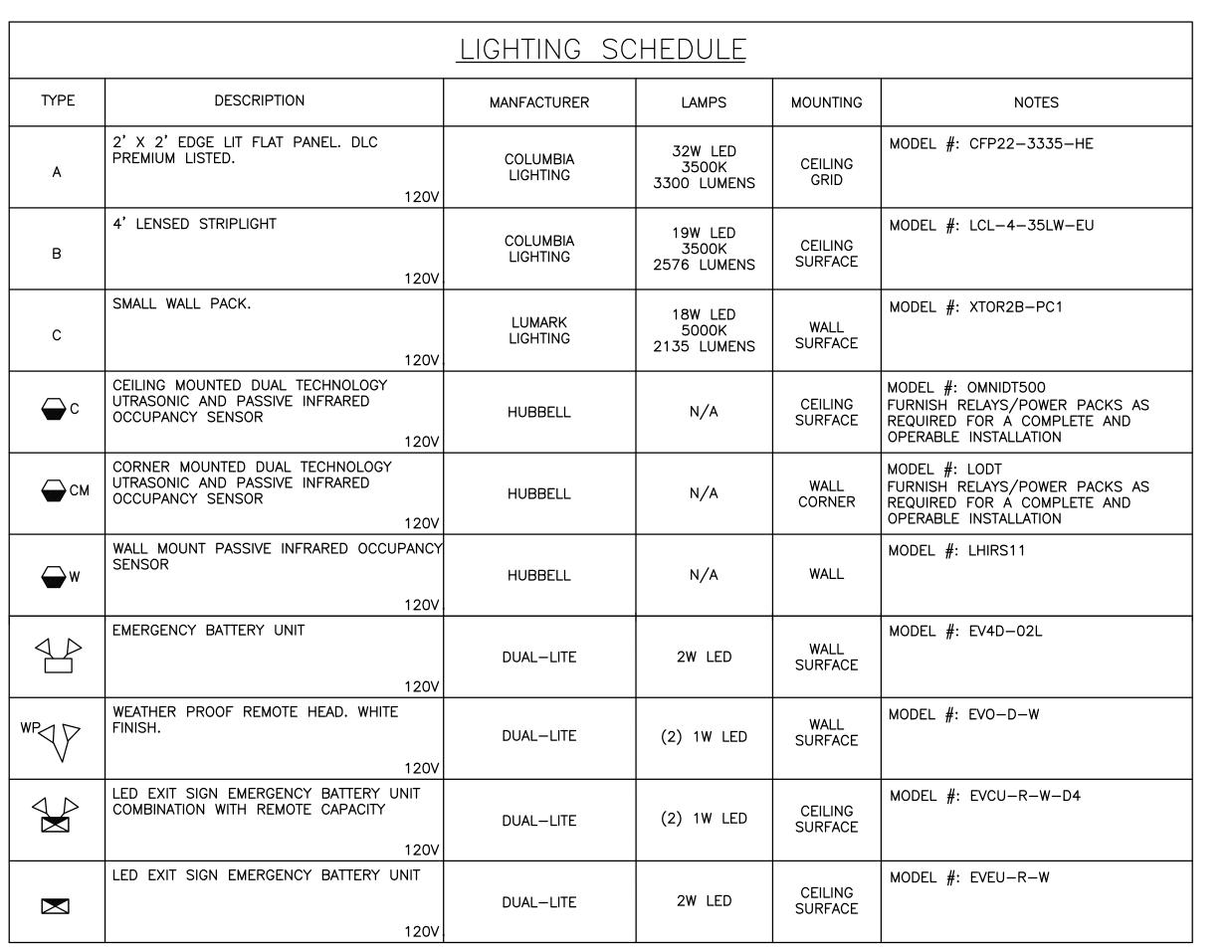
BID SET - 9/5/18

SEPTEMBER 5th, 2018

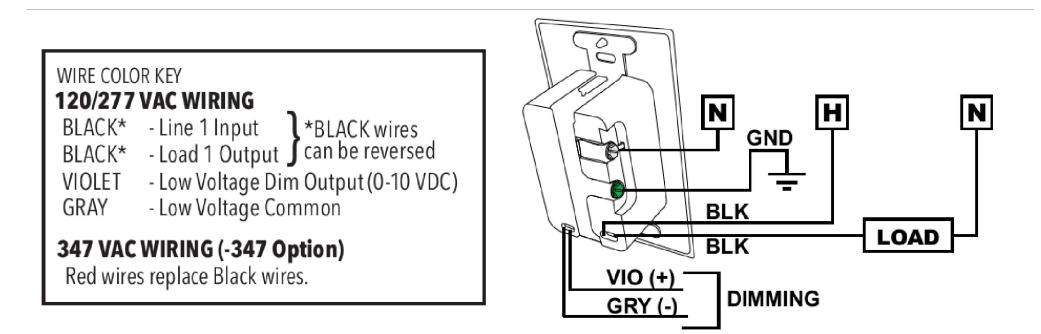
ELECTRICAL LIGHTING
PLAN & LIGHTING
SCHEDULE

Scale: As Noted

E2.0







## NOTES:

PER NEC REQUIREMENTS, THE 0-10V (VIOLET AND GRAY) WIRES MUST BE INSTALLED AS CLASS ONE.
 THE 0-10V (VIOLET AND GRAY) WIRES SHALL NOT EXCEED 240' IN LENGTH AND SHALL BE SIZED AS #18AWG.

