

PROJECT TEAM

ABBREVIATIONS

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AECs
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CONTACT: RICHARD HAWKINSON

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EMAIL: billdiephuis@k-engineers.com
CONTACT: BILL DIEPHUIS

Table with 3 columns: Abbreviation, Description, Abbreviation, Description. Includes items like ABV ABOVE, AFF ABOVE FINISH FLOOR, AC TILE ACOUSTICAL TILE, etc.

Table with 3 columns: Abbreviation, Description, Abbreviation, Description. Includes items like FO FACE OF FINISH OPENING, FRP FIBERGLASS REINF POLYESTER SHT, FIN FINISH, etc.

GENERAL NOTES

- 1. IN GENERAL, PLAN DIMENSIONS SHOWN ARE TO FACE OF STUD OR FACE OF CONCRETE...
2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INITIATING THE WORK...
3. ALL WORK SHALL COMPLY WITH THE 2015 IBC, IFC, UPC, IMC AS AMENDED BY WASH. STATE...

PROJECT DATA

PROPERTY INFORMATION
PORT OF PORT ANGELES
MULTI-TENANT INDUSTRIAL BLDG Facility Improvements PHASE II
AIRBORNE ENVIRONMENTAL CONTROL SYSTEMS TENANT IMPROVEMENT
PROPERTY ADDRESS 2007 SOUTH O STREET, SUITE E
PORT ANGELES WA 98362

BUILDING CODE DATA

EXISTING BUILDING 25,000 S.F. (NO CHANGES TO FOOTPRINT AREA OF T.I. 12,500 S.F.)
OCCUPANCY F-1 AEROSPACE MANUFACTURING
CONSTRUCTION TYPE VB EXISTING NO CHANGES
CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION
306.2 FACTORY INDUSTRIAL F-1 MODERATE HAZARD OCCUPANCY
CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS
508 OCCUPANCY SEPARATION
TABLE 508.3.3 F-1, B 5-1 NO SEPARATION REQUIRED EXISTING BUILDING NON SEPARATED USES

DRAWING INDEX

- COVER SHEET
A-0.0 COVER SHEET
CIVIL
C-1.0 EXISTING CIVIL PLAN UTILITIES
ARCHITECTURAL
A-1.0 SITE PLAN
A-2.0 OVERALL FLOOR PLAN
A-2.1 DEMOLITION FLOOR PLAN
A-2.2 PROPOSED FLOOR PLAN
A-2.3 SCHEDULES
A-4.0 BUILDING SECTION
A-5.0 WALL SECTION
A-6.0 DETAILS

MECHANICAL

- M-1.0 MECHANICAL COVER SHEET
M-1.1 SCHEDULES
M-1.2 ENERGY CODE/HEATING & COOLING LOAD CALCS.
M-2.0 FIRST FLOOR PLAN PLUMBING
M-3.0 FIRST FLOOR PLAN HVAC
M-4.0 DETAILS

ELECTRICAL

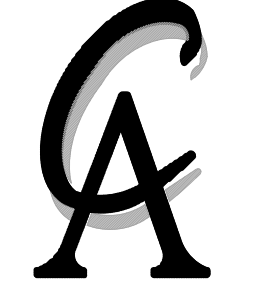
- E-1.0 NOTES, CABLE CODES & INDEX
E-1.1 ELECTRICAL OVERALL FLOOR PLAN
E-2.0 ELECTRICAL DEMOLITION PLAN
E-2.1 ELECTRICAL FLOOR PLAN NORTH
E-3.1 ELECTRICAL LIGHTING PLAN NORTH
E-4.1 ELECTRICAL ANCILLARIES PLAN NORTH
E-6.1 POWER SYSTEM RISER DIAGRAM
E-6.2 PANEL SCHEDULES

DEFERRED SUBMITTALS

FIRE SPRINKLER SYSTEM MODIFICATIONS & SHOP DRAWINGS
FIRE ALARM SHOP DRAWINGS MODIFICATIONS

SPECIAL INSPECTIONS REQD

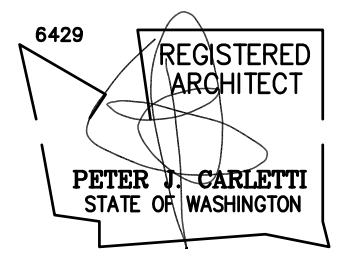
NON REQUIRED



CARLETTI ARCHITECTS P.S.
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MULTI-TENANT INDUSTRIAL BLDG
Facility Improvements PHASE II
2007 SOUTH O STREET, SUITE E
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

COVER SHEET

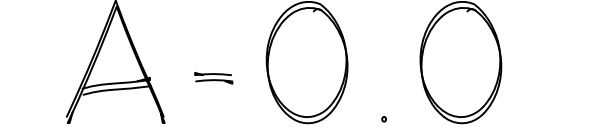
PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

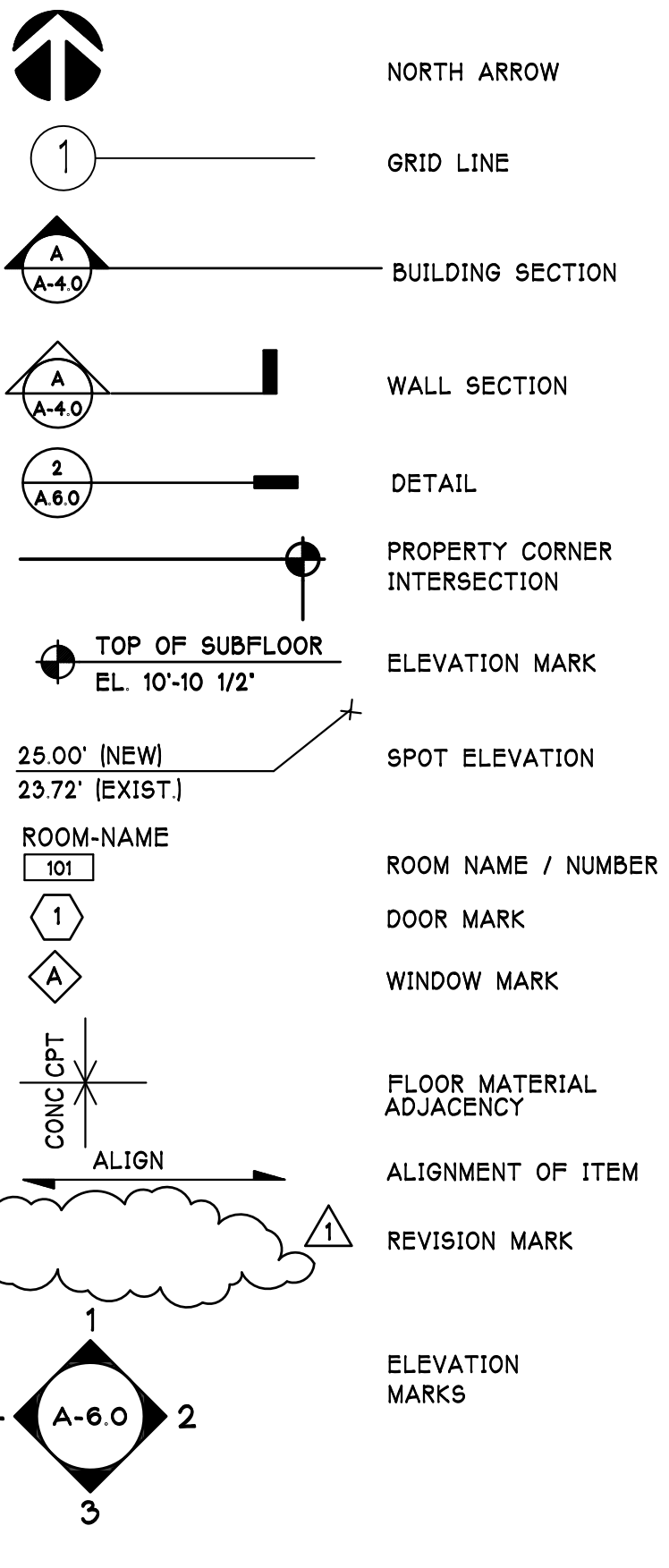
PJC
CHECKED BY:

7/12/17
DATE

17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

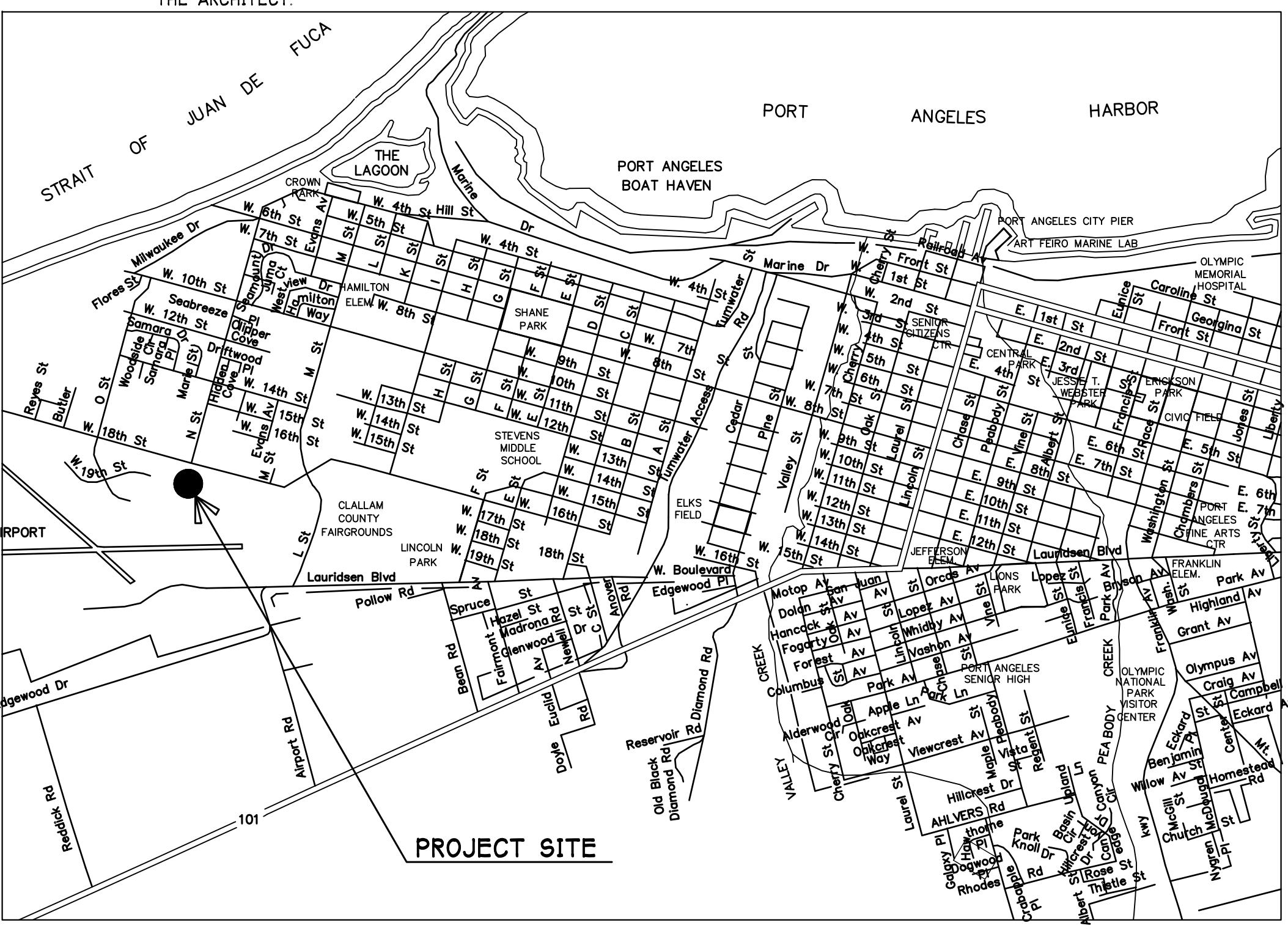


SYMBOLS



ENERGY CODE

- BUILDING ENVELOPE
1. SLAB INSULATION, IF ANY SHALL CONFORM TO THE SPECIFICATIONS AND, IF EXPOSED, SHALL BE PROTECTED AGAINST DAMAGE FROM ALL SOURCES.
2. ALL INSULATION SHALL BE OF THE THICKNESS AND DENSITY AS PRESCRIBED IN THE PLANS...
3. DOORS AND GLAZING SHALL BE OF THE TYPE AND SIZE OF THOSE PRESCRIBED IN THE PLAN...
4. AIR LEAKAGE IS CONTROLLED BY SEALING OR CAULKING ALL JOINTS AND GAPS IN FRAMING SEALANTS SHALL BE OF THE NON-HARDENING TYPE.
5. WALL, CEILING AND SLAB INSULATION SHALL BE AS CALLED OUT ON THE APPROVED PLANS AND SHALL CONFORM TO STANDARDS REGARDING DENSITIES AND R-VALUES...
6. FRAMING ASSEMBLIES SHALL BE SHOWN ON THE APPROVED PLANS.



VICINITY MAP
SCALE - N.T.S.

PORT STAFF

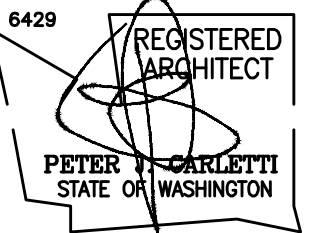
PORT COMMISSIONERS
Colleen M. McAleer
Connie L. Beauvais
Steven D. Burke
EXECUTIVE DIRECTOR
Karen F. Gaschen
DIRECTOR OF ENGINEERING
Chris R. Hartman, P.E.



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MULTI-TENANT INDUSTRIAL BLDG
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2007 SOUTH O STREET, SUITE
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER.

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
CIVIL SITE PLAN EXIST. UTIL.

PJC
PROJECT ARCHITECT.

PJC
DRAWN BY.

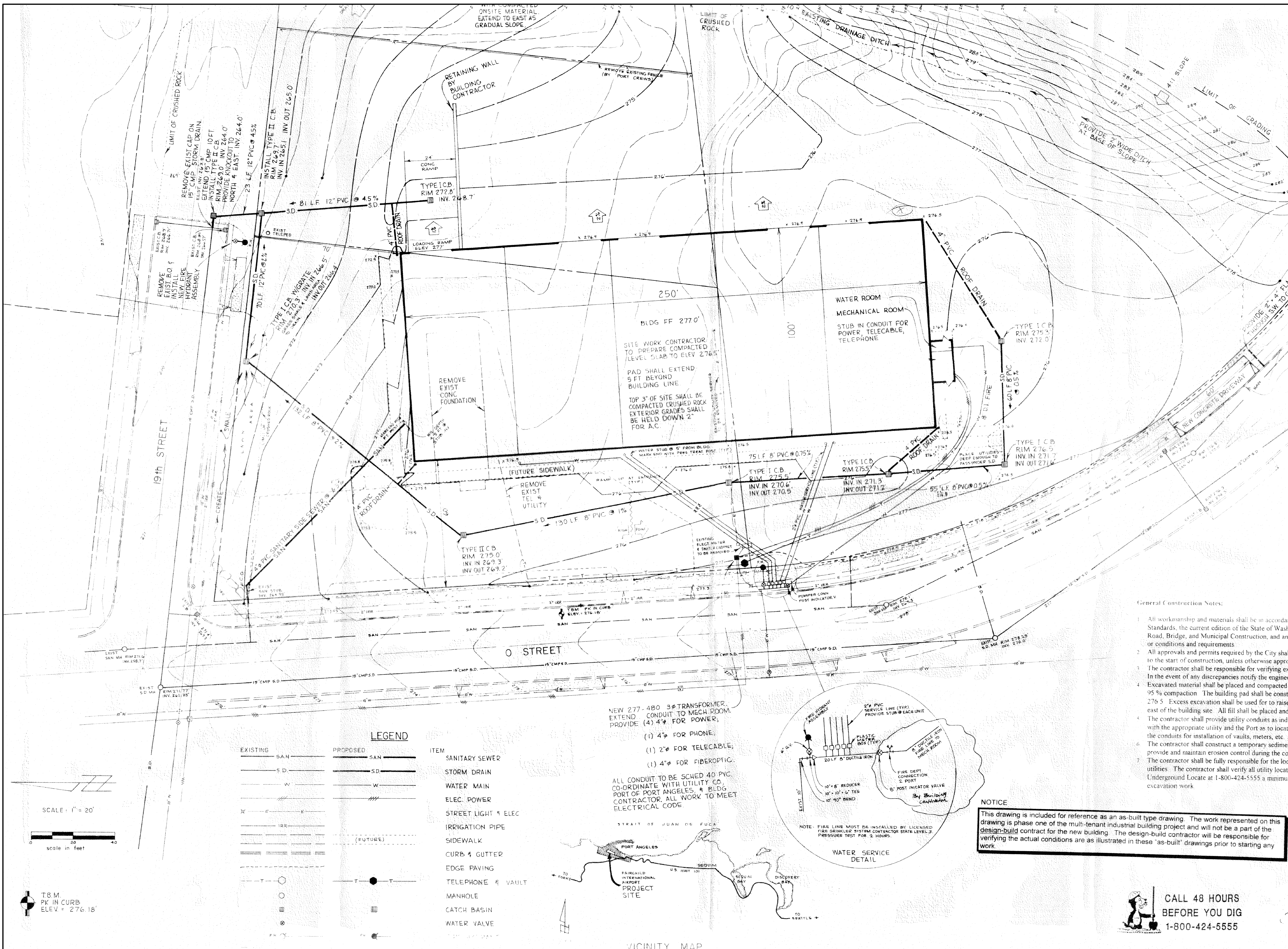
PJC
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7/12/17
DATE

17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

C-1.0

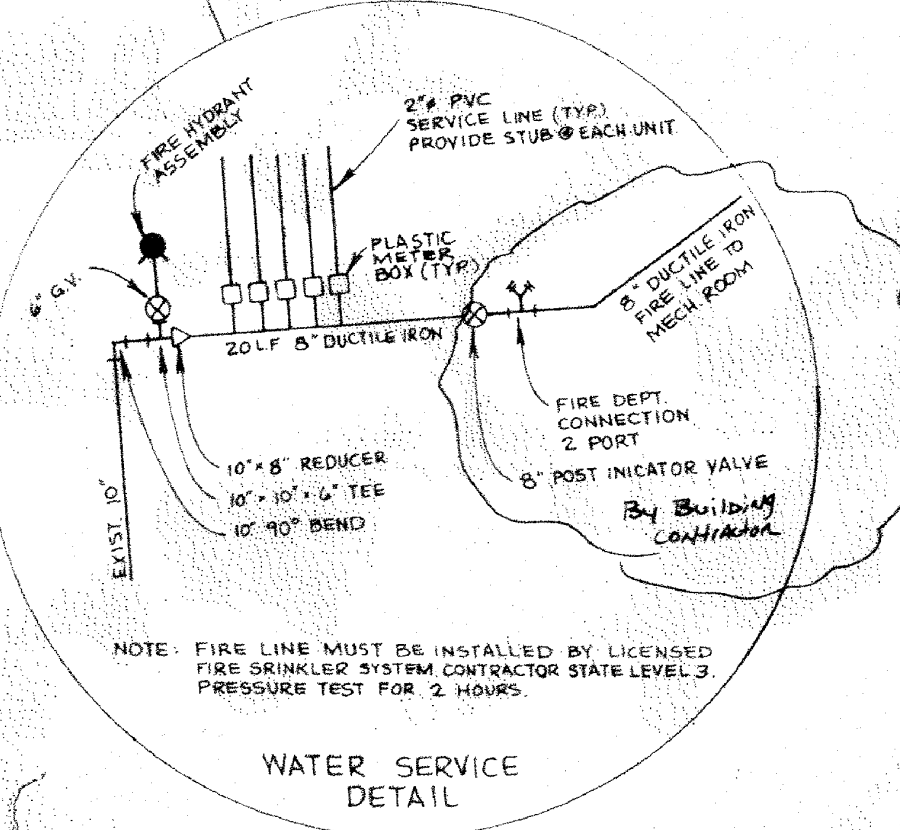
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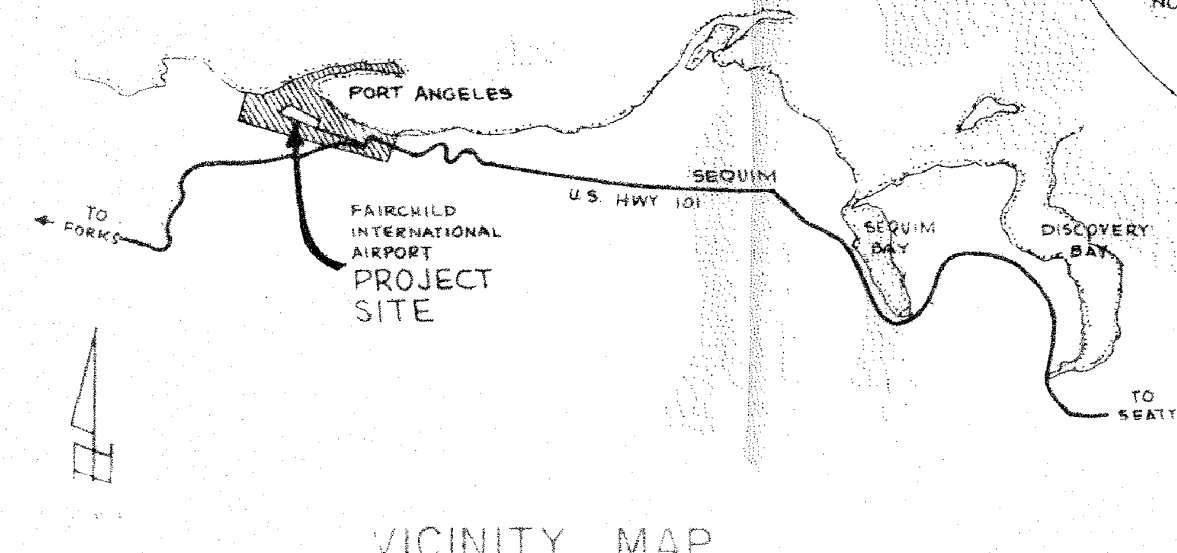
General Construction Notes:

- All workmanship and materials shall be in accordance with the current edition of the State of Washington, Road, Bridge, and Municipal Construction, and any other conditions and requirements.
- All approvals and permits required by the City shall be obtained prior to the start of construction, unless otherwise approved by the City.
- The contractor shall be responsible for verifying existing utility locations. In the event of any discrepancies notify the engineer immediately.
- Excavated material shall be placed and compacted to 95% compaction. The building pad shall be constructed to 276.5. Excess excavation shall be used for to raise grade east of the building site. All fill shall be placed and compacted to 95% compaction.
- The contractor shall provide utility conduits as indicated with the appropriate utility and the Port as to locate the conduits for installation of vaults, meters, etc.
- The contractor shall construct a temporary sediment trap and maintain erosion control during the construction.
- The contractor shall be fully responsible for the location of all utilities. The contractor shall verify all utility locations by using the utility locate service at 1-800-424-5555 a minimum excavation work.

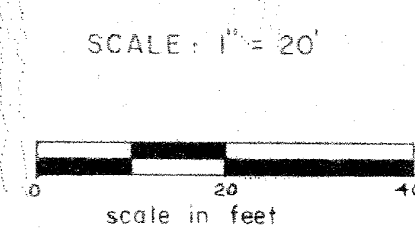
NOTICE
This drawing is included for reference as an as-built type drawing. The work represented on this drawing is phase one of the multi-tenant industrial building project and will not be a part of the design-build contract for the new building. The design-build contractor will be responsible for verifying the actual conditions as are illustrated in these "as-built" drawings prior to starting any work.



NEW 277-480 3# TRANSFORMER.
EXTEND CONDUIT TO MECH ROOM.
PROVIDE (4) 4" FOR POWER,
(1) 4" FOR PHONE,
(1) 2" FOR TELECABLE,
(1) 4" FOR FIBEROPTIC.
ALL CONDUIT TO BE SCHED 40 PVC.
COORDINATE WITH UTILITY CO.
PORT OF PORT ANGELES, & BLDG
CONTRACTOR. ALL WORK TO MEET
ELECTRICAL CODE.

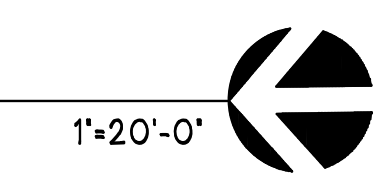


LEGEND		ITEM
EXISTING SAN	PROPOSED SAN	SANITARY SEWER
EXISTING S.D.	PROPOSED S.D.	STORM DRAIN
EXISTING W	PROPOSED W	WATER MAIN
EXISTING ELEC. POWER	PROPOSED ELEC. POWER	ELEC. POWER
EXISTING STREET LIGHT & ELEC	PROPOSED STREET LIGHT & ELEC	STREET LIGHT & ELEC
EXISTING IRR	PROPOSED IRR	IRRIGATION PIPE
EXISTING CURB & GUTTER	PROPOSED CURB & GUTTER	CURB & GUTTER
EXISTING EDGE PAVING	PROPOSED EDGE PAVING	EDGE PAVING
EXISTING TELEPHONE & VAULT	PROPOSED TELEPHONE & VAULT	TELEPHONE & VAULT
EXISTING MANHOLE	PROPOSED MANHOLE	MANHOLE
EXISTING CATCH BASIN	PROPOSED CATCH BASIN	CATCH BASIN
EXISTING WATER VALVE	PROPOSED WATER VALVE	WATER VALVE
(FUTURE)	(FUTURE)	SIDEWALK



T&M.
PK IN CURB
ELEV = 276.18'

EXISTING CIVIL SITE PLAN (FOR REFERENCE)

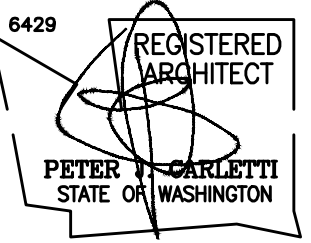




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MULTI-TENANT INDUSTRIAL BLD
Facility Improvements PHASE I
2007 SOUTH O STREET, SUITE 1
PORT ANGELES, WA 98362

CONTACT:
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PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
ARCHITECTURAL SITE PLAN

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

7/12/17
DATE

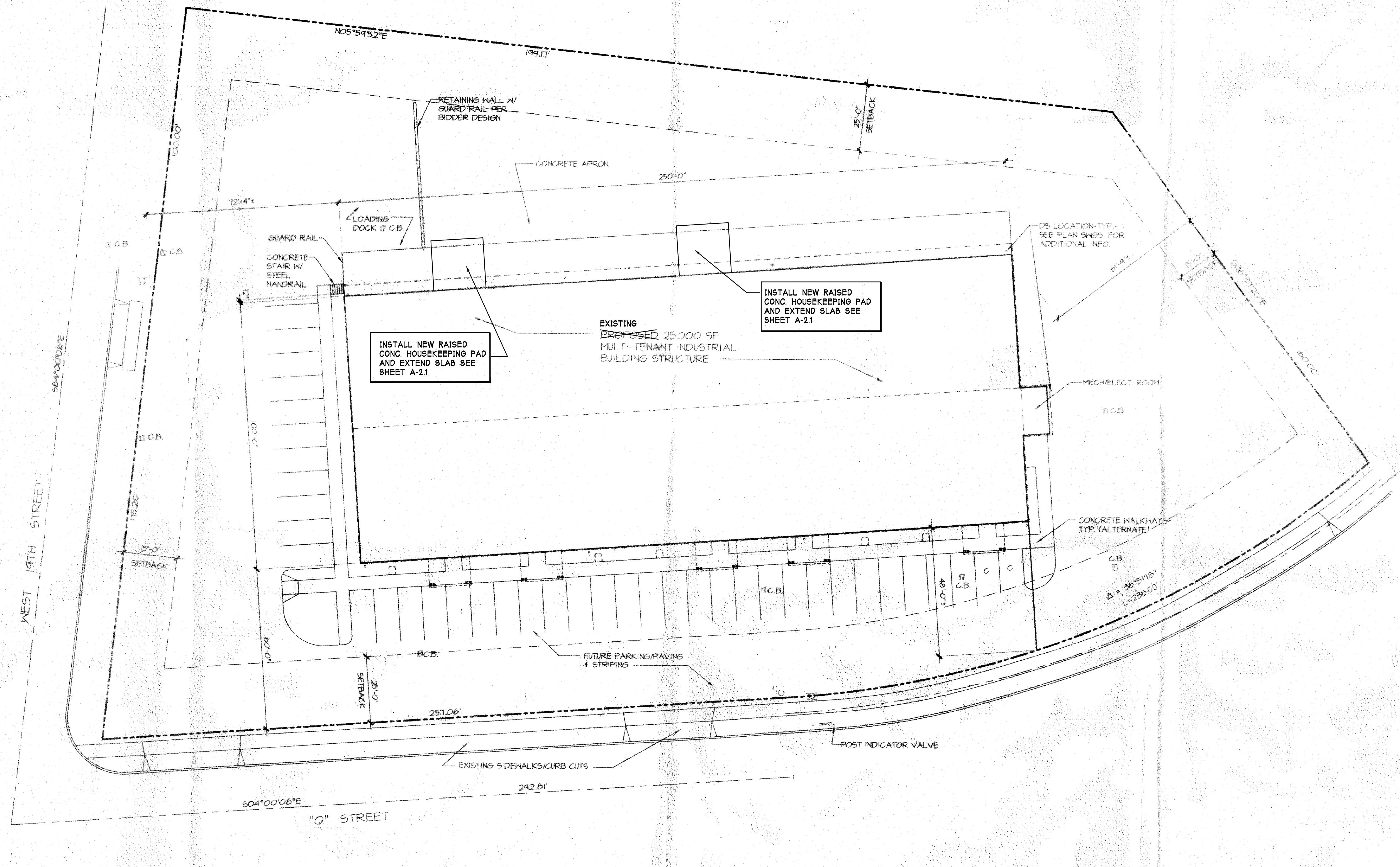
17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

A-1.1

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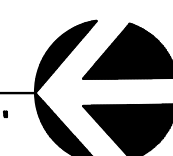
PORT ANGELES, WASHINGTON OLYMPIC PENINSULA

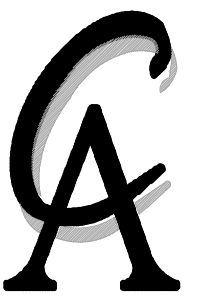
OF THE BUILDING EXCEPT THE FIRE PROTECTION SYSTEM REQUIRED PIPING FROM THE POST INDICATOR VALVE AT THE STREET), AND THE STORM DRAINAGE SYSTEM ARE ALL WORK UNDER SEPARATE CONTRACTS.



EXISTING SITE PLAN (FOR REFERENCE)

1"=20'-0"

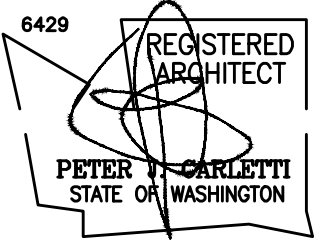




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MULTI-TENANT INDUSTRIAL BLDG.
Facility Improvements PHASE II
2007 SOUTH O STREET, SUITE E
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
OVERALL FLOOR PLAN

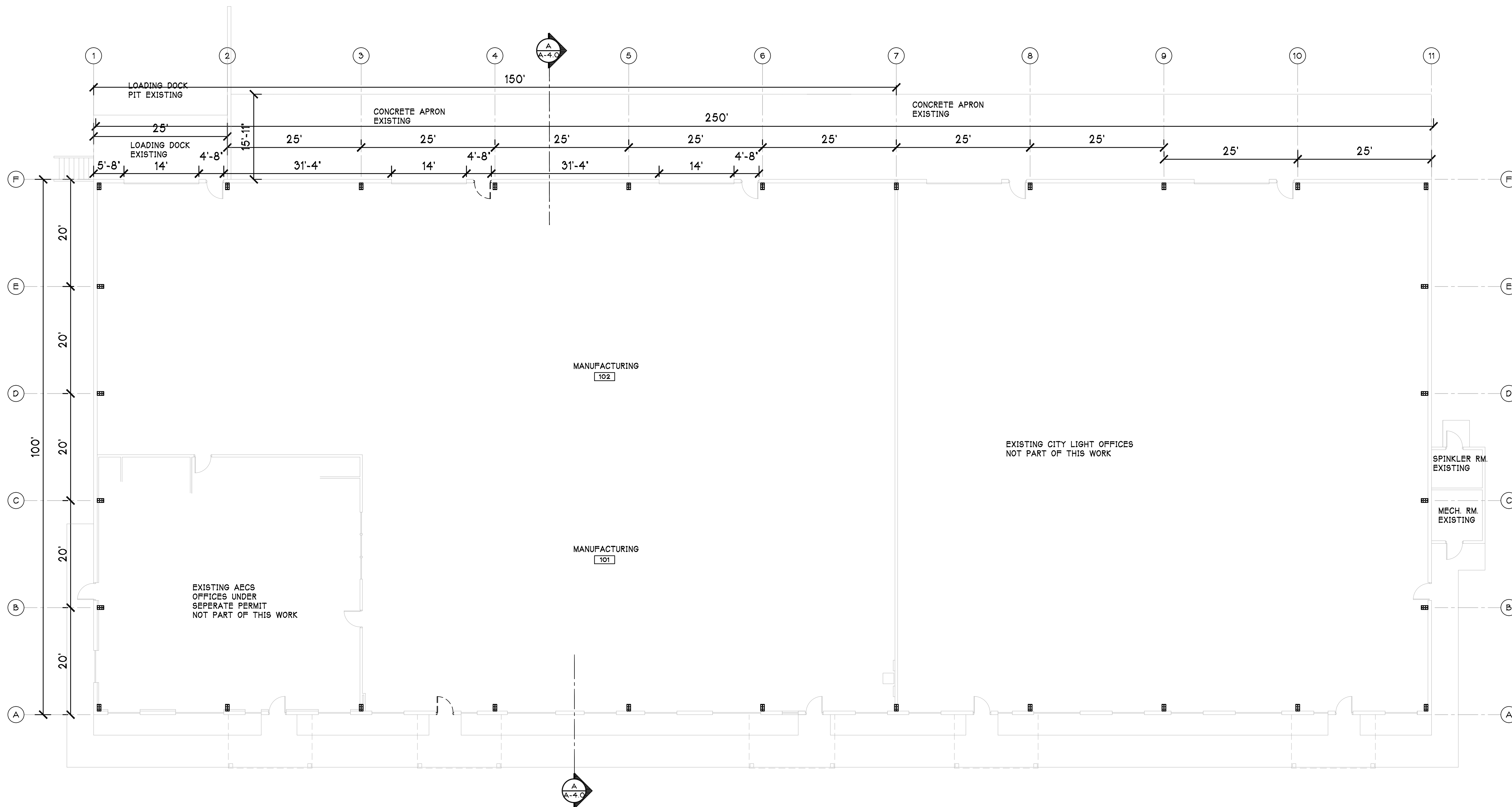
PJC
PROJECT ARCHITECT:
PJC
DRAWN BY:
PJC
CHECKED BY:

7/12/17
DATE

17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

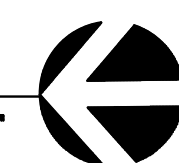
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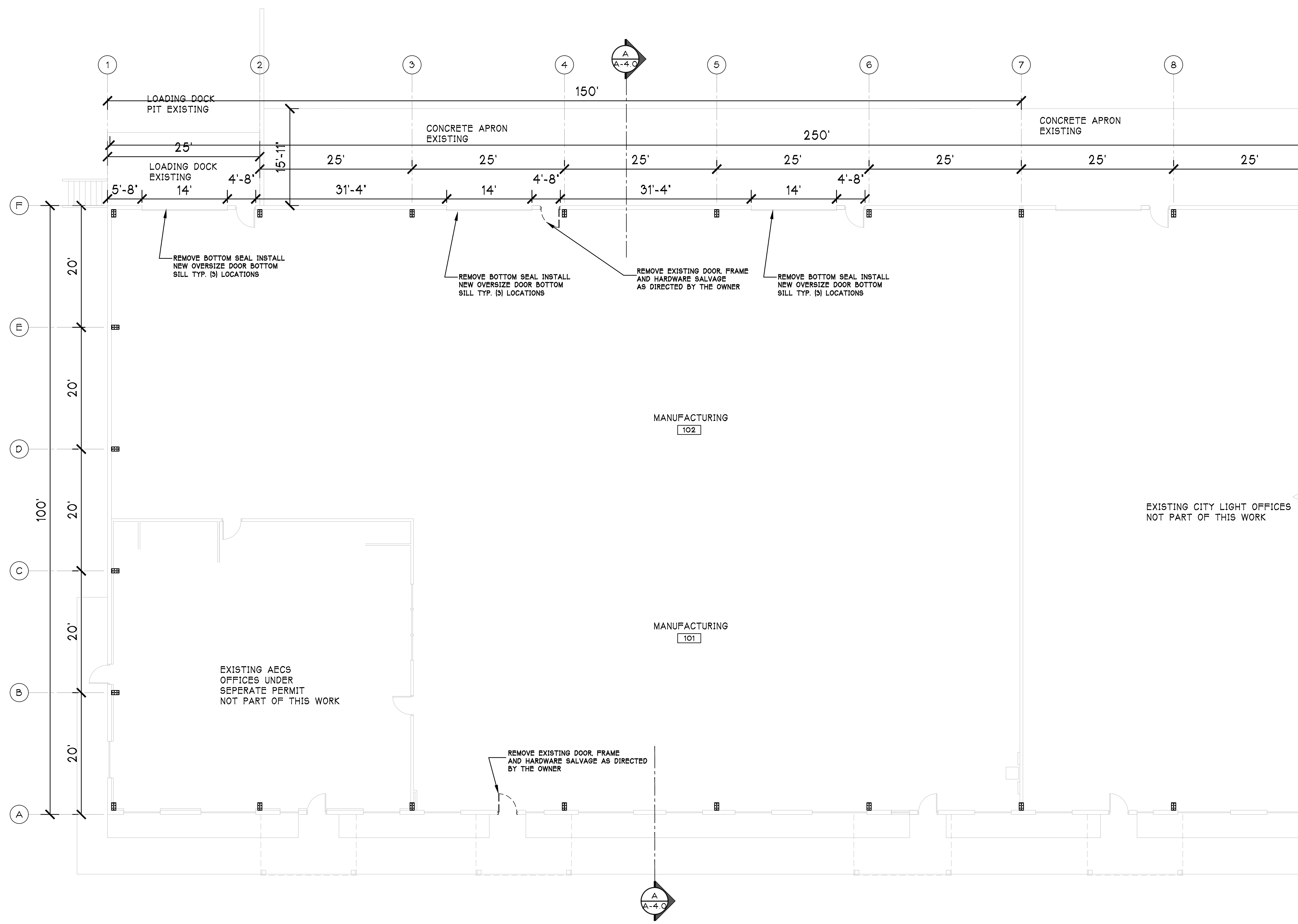
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OVERALL FLOOR PLAN

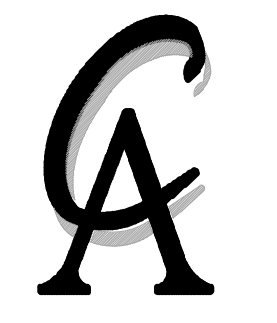
1"=10'-0"





1 DEMOLITION FLOOR PLAN

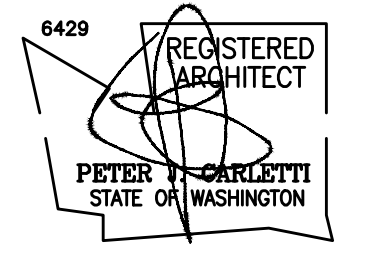
1/8"=1'-0"



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(360) 417-3422



EXISTING CITY LIGHT OFFICES
NOT PART OF THIS WORK

17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
DEMOLITION FLOOR PLAN

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

7/12/17
DATE

17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

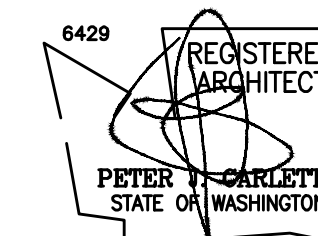
A-2.1



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2007 SOUTH O STREET, SUITE E
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CHRIS HARTMAN
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(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
PROPOSED FLOOR PLAN

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

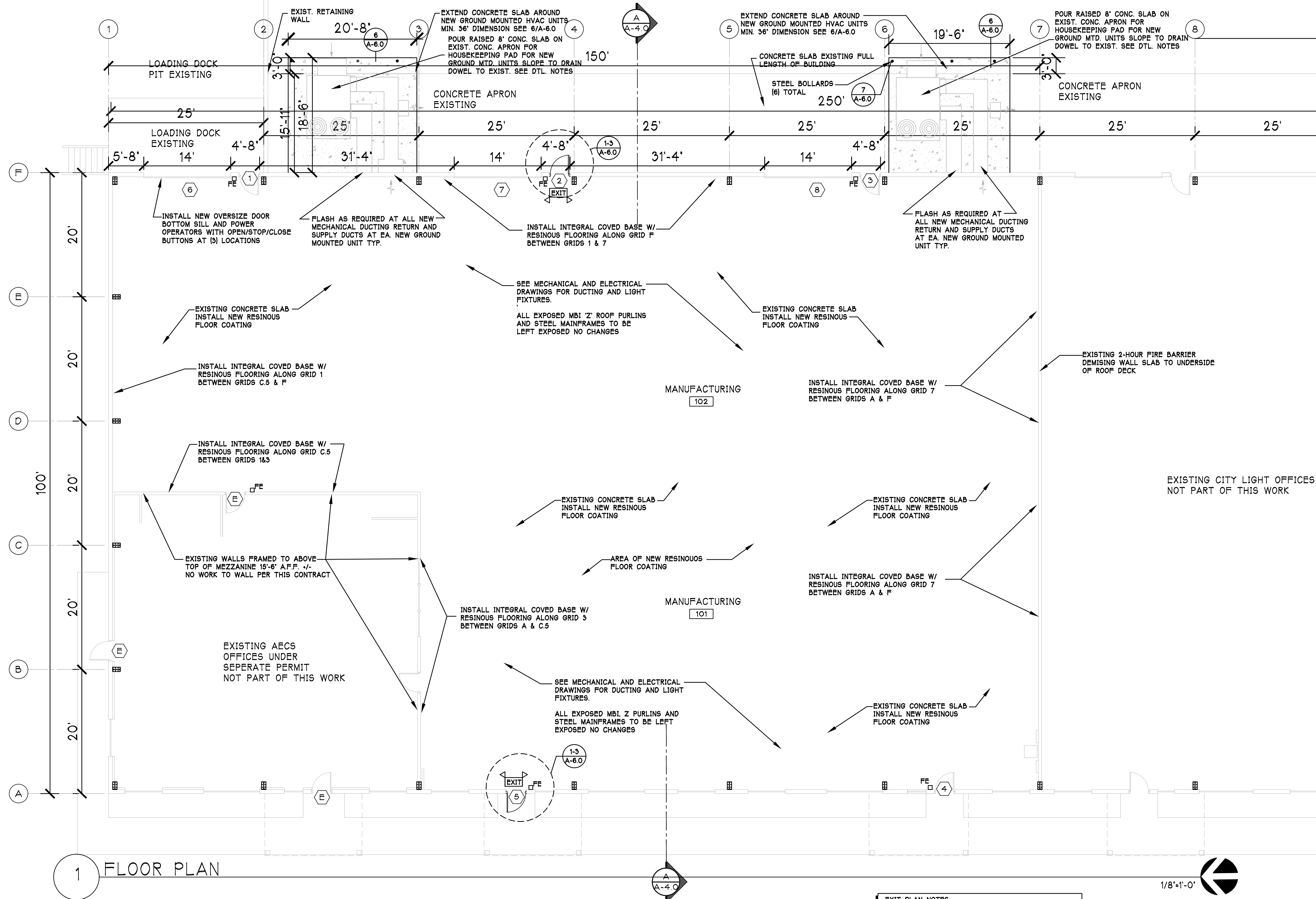
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DATE

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COMPUTER FILE NAME

A-2.2

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1 FLOOR PLAN

LEGEND

- ☐ FE FIRE EXTINGUISHER 2A10BC
- ⊗ DOOR NUMBER SEE SHEET A-2.3 FOR SCHEDULE
- XXX ROOM FINISH TAG SEE SHEET A-2.3 FOR SCHEDULE
- ▬ PRE-ENGINEERED METAL WALL SYSTEM (STEEL BUILDING)
- ⋮ METAL BUILDING COLUMNS

LEGEND

- EXIT COMBINATION EXIT SIGN/EMERGENCY LIGHTING WITH BATTERY BACKUP HARDWARE
- EMERGENCY LIGHTS ARE INTEGRAL TO THE GENERAL LIGHTING FIXTURES VIA EMERGENCY LIGHTING INVERTERS. SEE SHEETS E-3.1 AND E-4.1 FOR EMERGENCY LIGHTING LOCATIONS
- EXIT DIRECTIONAL EMERGENCY SIGN WITH BATTERY BACKUP HARDWARE

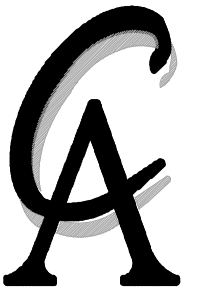
FLOOR PLAN NOTES.

1. CONFIRM ALL ROUGH OPENINGS FOR DOORS AND WINDOWS PRIOR TO FRAMING AND ORDERING.
2. REPAIR EXIST MBI VAPOR BARRIER AT CEILING WHERE DAMAGED WITH NEW MATERIAL AND TAPE. ASSUME 150 S.F. OF REPAIR AREA.
3. REMOVE ALL DUST AND DEBRIS FROM EXISTING CONCRETE SLAB.
4. PRESSURE WASH AND SCRUB EXISTING CONCRETE SLAB WITH DETERGENT. REMOVE ALL FREESTANDING WATER WITH SQUEEGEE. DO NOT GET WATER ON EXISTING MBI.
5. REMOVE DUST AND DEBRIS FROM EXISTING STEEL MAIN FRAMES.
6. SEE RESPECTIVE MECHANICAL, AND ELECTRICAL DRAWINGS FOR SCOPES OF WORK WITHIN EACH RESPECTIVE DISCIPLINE.

EXIT PLAN NOTES.

1. TRAVEL DISTANCE TO ALL COMMON PATHS OF TRAVEL < 250'-0" (OK)
2. OVERALL EXIT TRAVEL DISTANCE < 200'-0" (OK)
3. EXITS ARE OVER 1/3 THE DIAGONAL DISTANCE APART WHERE THERE IS REQUIRED TO BE TWO EXITS (OK)
4. EGRESS WIDTH PER OCCUPANT SERVED 49.77 OCCUPANT (PER A-2.1) 3 INCHES PER OCCUPANT (PER TABLE 1006.1 WITH B OCCUPANCY) 49.77 X 3 = 14.9 INCHES WE PROVIDE 36 INCHES WHICH IS > 14.9 (OK)
5. EXIT LIGHTS ARE SHOWN
6. PER IBC 1011.3 TACTILE EXIT SIGNS ARE REQUIRED AT ALL EXIT DOORS.

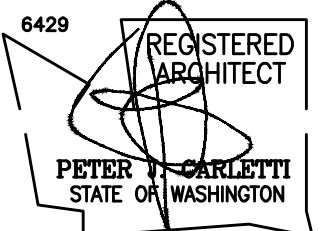
1014.3 COMMON PATH OF EGRESS TRAVEL PER IBC 2012
THE COMMON PATH OF EGRESS TRAVEL DISTANCE SHALL NOT EXCEED THE COMMON PATH OF TRAVEL EGRESS TRAVEL DISTANCE IN TABLE 1014.3. FOR OCCUPANCY CLASSIFICATION B & S1 WITH OCCUPANT LOAD GREATER THAN 30, TRAVEL DISTANCE SHOULD NOT EXCEED 75'.



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17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

DOOR SCHEDULE

FINISH SCHEDULE

FINISHES

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

7/12/17
DATE

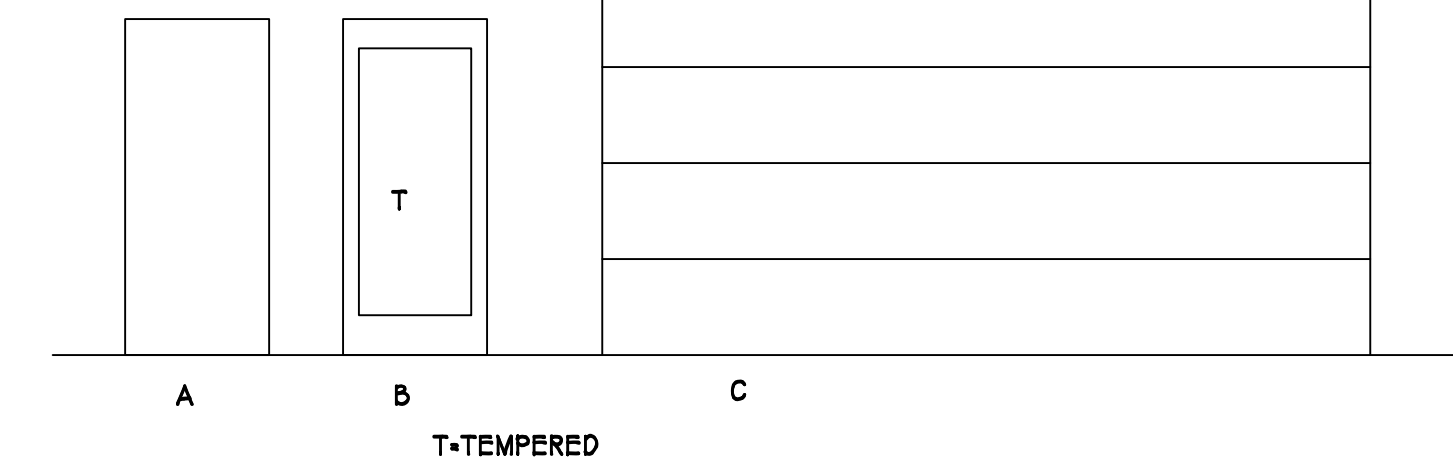
17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

A-2.3

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DOOR SCHEDULE										
NO.	SIZE	DOOR LEAF		FRAME		HARDWARE			RATING	NOTES
		TYPE	MATL	FIN.	MATL	FIN.	CLSR.	PANIC		
1	3'-0" X 7'-0"	A	HMD	PAINT	HMF	PAINT	YES	-	-	EXISTING DOOR, REPLACE LOCKSET AND STRIKE WITH STOREROOM FUNCTION & ELECTRONIC STRIKE, REPAINT DOOR AND PROVIDE LOW VOLTAGE FOR KEY FOB
2	3'-0" X 7'-0"	A	HMD	PAINT	HMF	PAINT	YES	YES	-	INSULATED, LEVER HANDLE KEYED LOCK STOREROOM FUNCTION ELECTRONIC STRIKE, WEATHERSTRIP, THRESHOLD, SWEEP
3	3'-0" X 7'-0"	A	HMD	PAINT	HMF	PAINT	YES	-	-	EXISTING DOOR, REPLACE LOCKSET AND STRIKE WITH STOREROOM FUNCTION & ELECTRONIC STRIKE, REPAINT DOOR AND PROVIDE LOW VOLTAGE FOR KEY FOB
4	3'-0" X 7'-0"	A	HMD	PAINT	HMF	PAINT	YES	-	-	EXISTING DOOR, REPLACE LOCKSET AND STRIKE WITH STOREROOM FUNCTION & ELECTRONIC STRIKE, REPAINT DOOR AND PROVIDE LOW VOLTAGE FOR KEY FOB
5	3'-0" X 7'-0"	B	HMD	PAINT	HMF	PAINT	YES	YES	-	INSULATED, LEVER HANDLE KEYED LOCK STOREROOM FUNCTION ELECTRONIC STRIKE, WEATHERSTRIP, THRESHOLD, SWEEP
6	14'-0" X 14'-0"	C	ALUM	-	-	-	YES	-	-	EXIST. O.H. DOOR PROVIDE POWER TO NEW AUTO SIDE OPENER INSTALL BLOCKING AND OPENER AS REQUIRED WITH CONDUIT TO OPERATOR/OPEN/CLOSE/STOP BUTTONS, PNEUMATIC SENDING EDGE, INSTALL OVERSIZED BOTTOM SEAL AT BOTTOM EDGE
7	14'-0" X 14'-0"	C	ALUM	-	-	-	YES	-	-	EXIST. O.H. DOOR PROVIDE POWER TO NEW AUTO SIDE OPENER INSTALL BLOCKING AND OPENER AS REQUIRED WITH CONDUIT TO OPERATOR/OPEN/CLOSE/STOP BUTTONS, PNEUMATIC SENDING EDGE, INSTALL OVERSIZED BOTTOM SEAL AT BOTTOM EDGE
8	14'-0" X 14'-0"	C	ALUM	-	-	-	YES	-	-	EXIST. O.H. DOOR PROVIDE POWER TO NEW AUTO SIDE OPENER INSTALL BLOCKING AND OPENER AS REQUIRED WITH CONDUIT TO OPERATOR/OPEN/CLOSE/STOP BUTTONS, PNEUMATIC SENDING EDGE, INSTALL OVERSIZED BOTTOM SEAL AT BOTTOM EDGE
E	3'-0" X 7'-0"	A	HMD	-	HMF	-	-	-	-	EXISTING DOOR NO CHANGES

- NOTES:
 1. ALL DOORS TO BE 1 3/4" THICK.
 2. VERIFY ALL R.O. AND JAMB DEPTHS PRIOR TO ORDERING.
 3. ALL DOORS TO HAVE BARRIER FREE HARDWARE AS REQUIRED.
 4. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
 5. ALL GLAZING WITHIN A 24 INCH ARC OF EITHER EDGE OF DOORS AND WITHIN 18 INCHES OF FLOORS SHALL BE SAFTY GLAZING AS REQUIRED BY IBC SECTION 2406.3. ALL SUCH GLAZING SHALL HAVE PERMANENT IDENTIFICATION SAFTY GLAZING STAMP.
 6. DOORS SHALL HAVE LEVER HARDWARE WHICH WILL PERMIT OPERATION BY WRIST OR ARM PRESSURE.
 7. EXTERIOR DOORS TO BE INSULATED U-VALUE .057 OR BETTER



FINISH SCHEDULE																								
ROOM NO.	ROOM NAME	FLOOR			BASE			NORTH WALL			SOUTH WALL			EAST WALL			WEST WALL			CEILING				NOTES
		MATL	FIN.	NO.	MATL	FIN.	NO.	MATL	FIN.	NO.	MATL	FIN.	NO.	MATL	FIN.	NO.	MATL	FIN.	NO.	MATL	FIN.	NO.	HGT.	
101	MANUFACTURING	CONC.	SEAL	C-1				GWB	PNT	P1	GWB	PAINT	P1	-	-	-	GWB/CMU	PAINT	P1	EXPOSED	-	-	VARIES	SEE SHEET A-2.2 FOR LOCATIONS OF COVED RESINOUS FLOOR COVED FLOOR BASE. NOT REQUIRED ALONG GRID A
102	MANUFACTURING	CONC.	SEAL	C-1				GWB	PAINT	P1	GWB	PAINT	P1	GWB	PAINT	P1	GWB	PAINT	P1	EXPOSED	-	-	VARIES	SEE SHEET A-2.2 FOR LOCATIONS OF COVED RESINOUS FLOOR COVED FLOOR BASE. NOT REQUIRED ALONG GRID A

INTERIOR MATERIALS LEGEND						
ABBREVIATION	DESCRIPTION	#	SIZE	MANUFACTURER	STYLE	NOTES
FLOOR/BASE/MAINSOT:						
CONC.	RESINOUS FLOOR COATING	C1	-	HP SPARTACOAT	SEE SPECS 09 67 23	AEROSPACE WHITE VERIFY W/ OWNER SEE SPECS 09 67 23
PAINT:						
WALLS	PAINT	P1	-	SHERWIN WILLIAMS	EGGSHELL	TO BE SELECTED OFF WHITE
DOORS/FRAMES	PAINT	P2	-	SHERWIN WILLIAMS	SEMIGLOSS	TO BE SELECTED OFF WHITE
DOORS/FRAMES	PAINT	P2	-	SHERWIN WILLIAMS	SEMIGLOSS	MATCH EXTERIOR EXISTING
						HOLLOW METAL DOORS AND FRAMES EXTERIOR
						HOLLOW METAL DOORS AND FRAMES INTERIOR

PJC
PROJECT ARCHITECT:
 PJC
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 PJC
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DATE
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A-2.3

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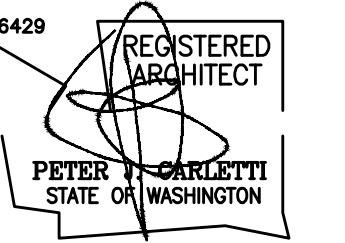


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architecture, planning, interior design

116 EAST FIR STREET
SUITE A
MOUNT VERNON, WA. 98273

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MULTI-TENANT INDUSTRIAL BLDG.
Facility Improvements PHASE II
2007 SOUTH O STREET, SUITE E
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

BUILDING SECTION

PJC
PROJECT ARCHITECT.

PJC
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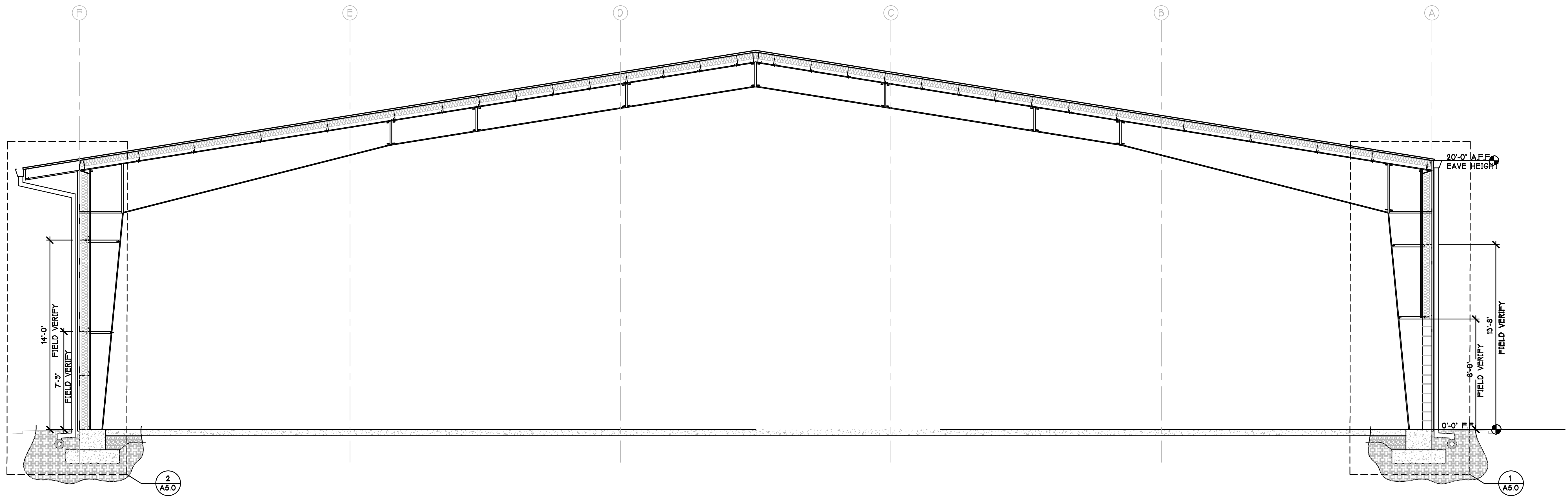
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BUILDING SECTION-A

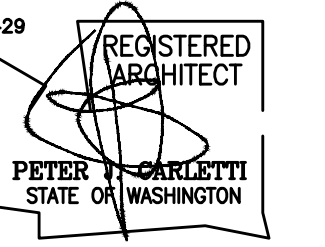
1/4"=1'-0"



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PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
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(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

WALL SECTION

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EXISTING ROOF OVERHANG FRAMING
AND SOFFIT NO CHANGES

SEE 1/A-5.0 FOR TYP. NOTES

EXISTING TYPICAL METAL BLDG. WALL CONST.
EXIST. 24GA. METAL WALL PANELS O/
8' Z GIRTS W/ R-13 MBI WHITE VINYL V.B.
CLASS C MAX. FLAME SPREAD 76-200
SMOKE DEVELOPED 0-450

NEW 3/4" HAT CHANNEL @ 24' O.C. OVER MBI FRAMING O/
5/8" GWB TAPE AND FINISH LEVEL-4 SMOOTH WALL
PRIME AND PAINT FULL HEIGHT FROM SLAB
TO TOP OF MBI AND INSULATION WALL FRAMING
TYP. ALONG GRID F BETWEEN GRIDS 1&7
AND ALONG GRID 1 BETWEEN GRIDS C.5&F

EXISTING EXPOSED MBI
NO CHANGES
REPAIR ASSUME 150 S.F.

INSTALL NEW RESINOUS FLOOR COATING
AND INTEGRAL COVED BASE
AS NOTED ON THE FLOOR PLAN IN THE
AREAS AS CALLED OUT
SEE TECHNICAL SPECIFICATIONS

EXIST. SLAB CONSTRUCTION
6" CONCRETE SLAB ON GRADE
W/ #4 @ 18" O.C. EA. WAY O/
2" SAND O/
6 MIL V.B. O/
COMPACTED STRUCTURAL FILL

2 WALL SECTION

3/4"=1'-0"

12
2

EXIST. TYPICAL ROOF CONSTRUCTION
24GA. METAL ROOF PANELS O/
8' Z GIRTS W/
EXPOSED R-19 MBI CLASS C
MAX. FLAME SPREAD 76-200
SMOKE DEVELOPED 0-450
BEARING ON STEEL MAIN FRAMES
NO CHANGES TO EXPOSED MBI
(METAL BUILDING INSULATION)

EAVE HEIGHT

EXISTING EXPOSED MBI
NO CHANGES
REPAIR ASSUME 150 S.F.

EXISTING STEEL MAIN FRAME
NO CHANGES

EXISTING TYPICAL METAL BLDG. WALL CONST.
EXIST. 24GA. METAL WALL PANELS O/
8' Z GIRTS W/ R-13 MBI WHITE VINYL V.B.
CLASS C MAX. FLAME SPREAD 76-200
SMOKE DEVELOPED 0-450

NEW 3/4" HAT CHANNEL @ 24' O.C. OVER MBI FRAMING O/
5/8" GWB TAPE AND FINISH LEVEL-4 SMOOTH WALL
PRIME AND PAINT FULL HEIGHT FROM TOP OF CMU
TO TOP OF WALL EXIST. MBI FRAMING & INSULATION
TYP. ALONG GRID A BETWEEN GRIDS 1&7

CORNER BEAD TYP. TOP
OF CMU WALL

INSTALL NEW RESINOUS FLOOR COATING
AND INTEGRAL COVED BASE
AS NOTED ON THE FLOOR PLAN IN THE
AREAS AS CALLED OUT
SEE TECHNICAL SPECIFICATIONS

EXIST. SLAB CONSTRUCTION
6" CONCRETE SLAB ON GRADE
W/ #4 @ 18" O.C. EA. WAY O/
2" SAND O/
6 MIL V.B. O/
COMPACTED STRUCTURAL FILL

EXISTING WALL ON GRID A
EXIST. 8' CMU PRIME AND PAINT
TO MATCH NEW GWB TYP.

0'-0" FINISH FLOOR

EXIST. 6" PVC TIGHT LINE
FOR DOWN SPOUTS

1 WALL SECTION

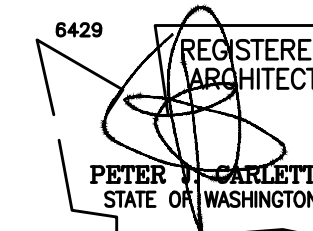
3/4"=1'-0"



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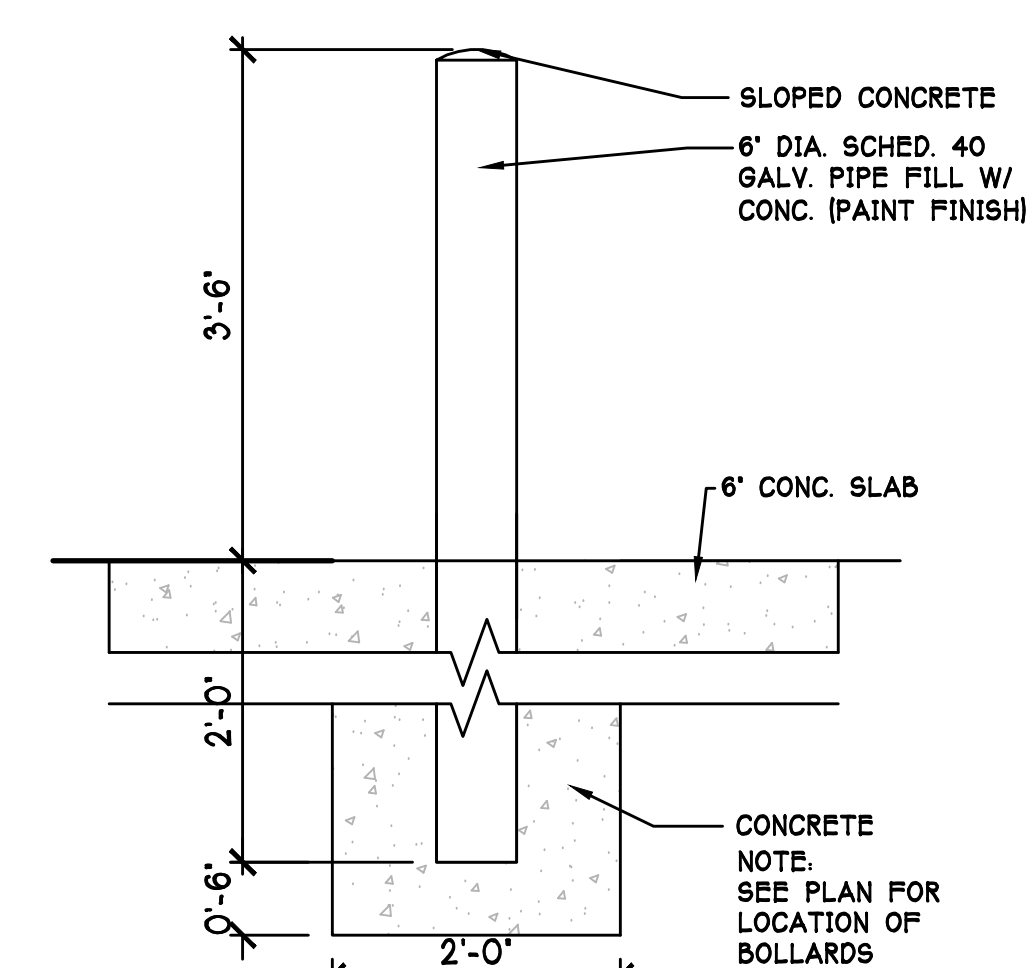
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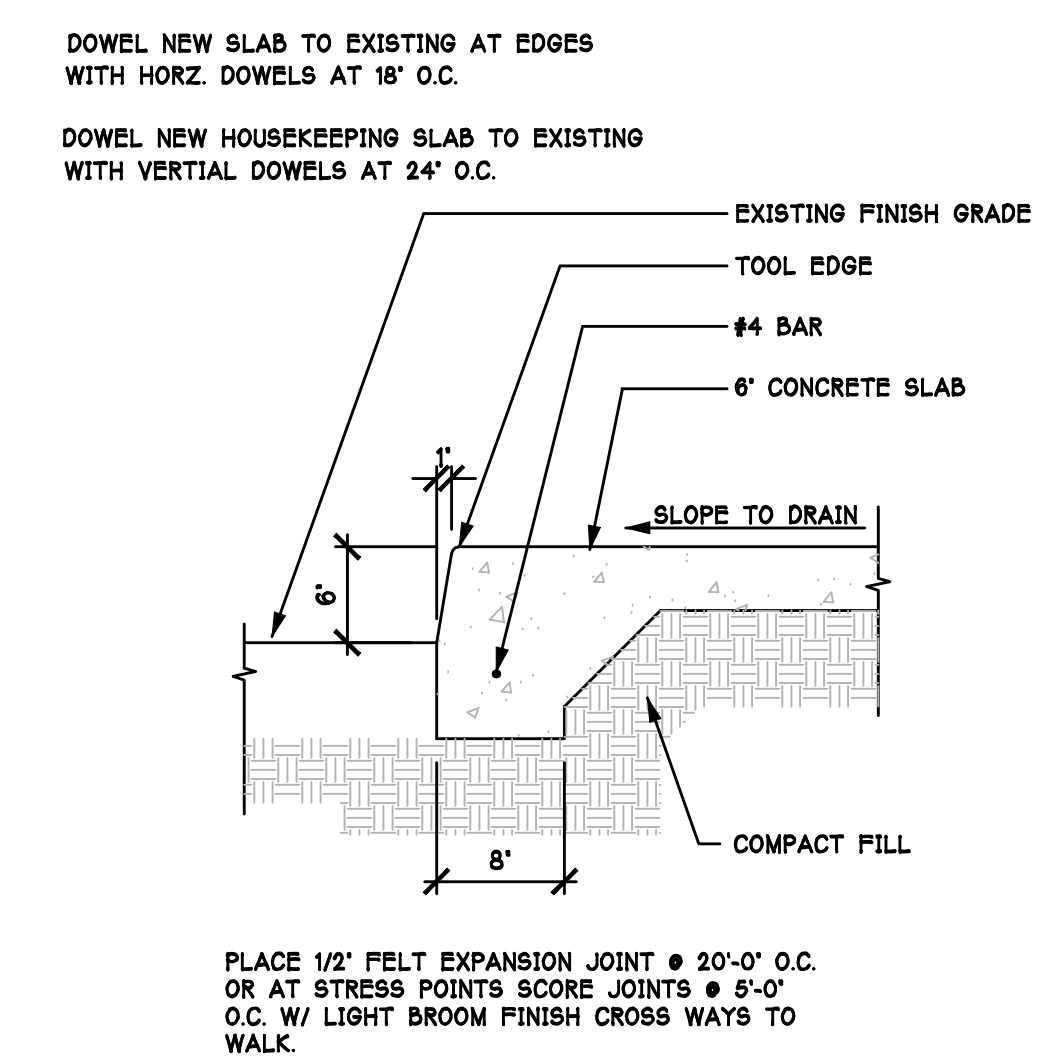


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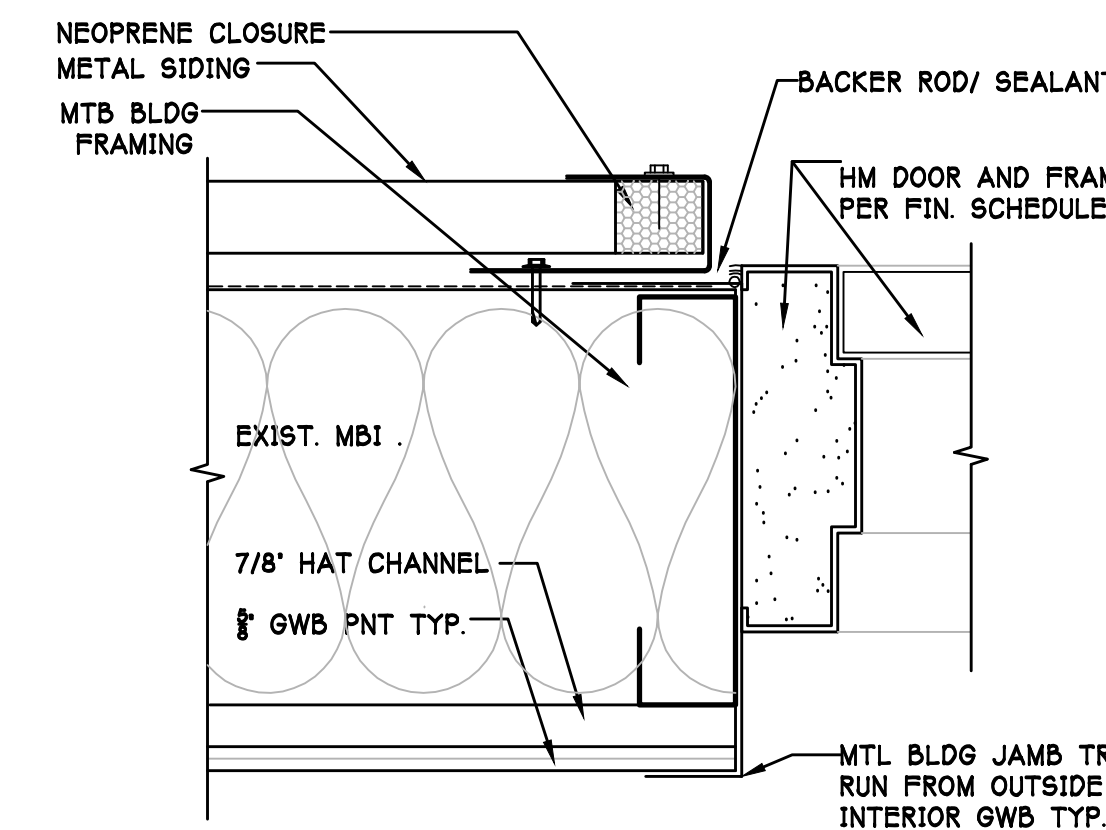
CONTACT:
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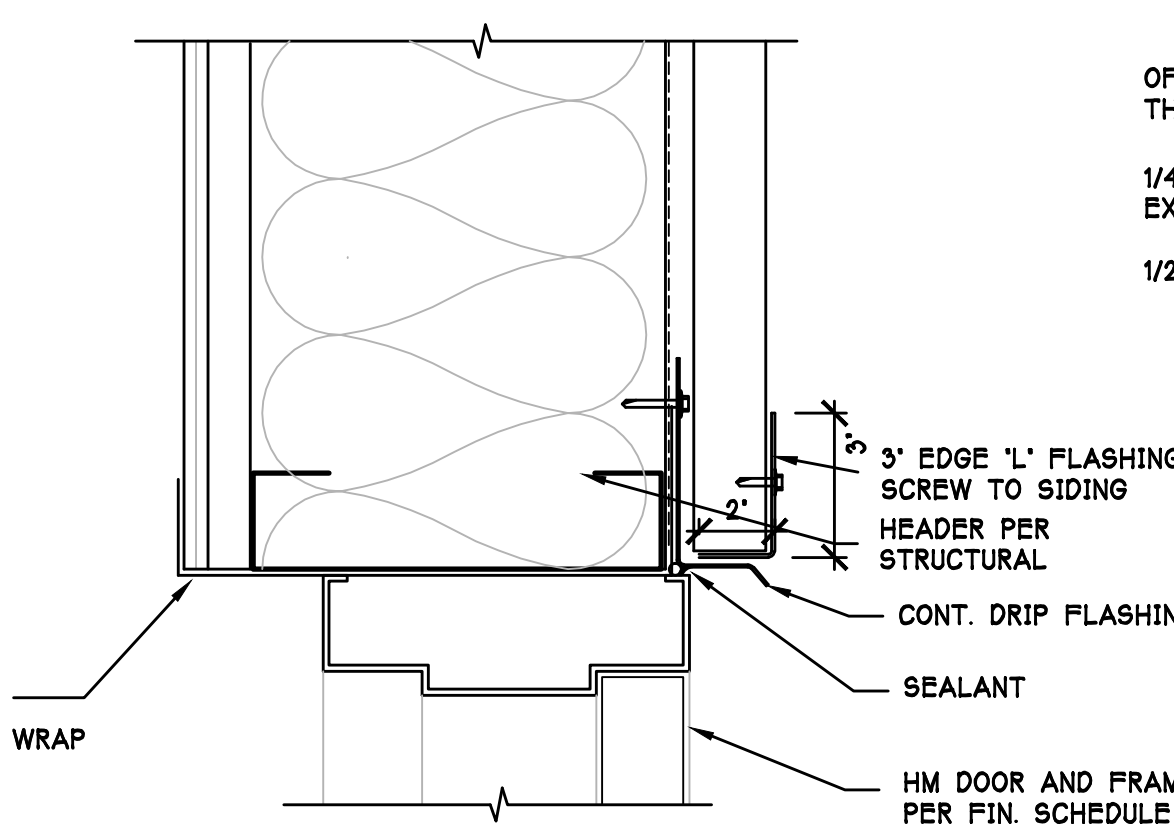
7 BOLLARD
(6) TOTAL SCALE: 3/4"=1'-0"



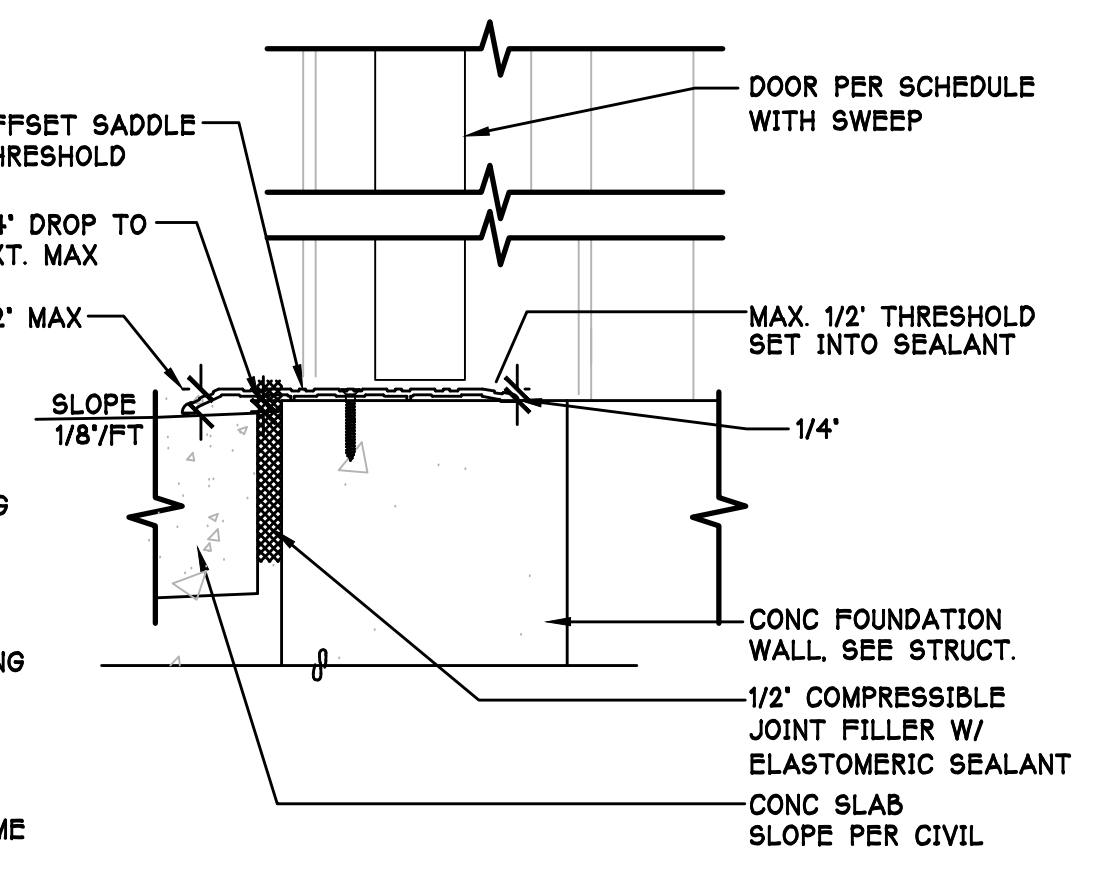
6 SIDEWALK / CURB SCALE: 1"=1'-0"



3 EXT. HMF JAMB SCALE: 3"=1'-0"



2 EXT. HMF HEAD @ SCALE: 3"=1'-0"



1 EXT. HM DOOR SILL SCALE: 3"=1'-0"

17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:
DETAILS

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

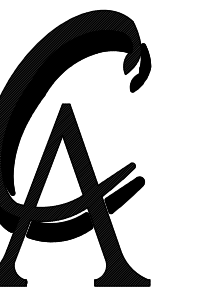
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PORT OF PORT ANGELES LIGHT UTILITY BUILDING TI

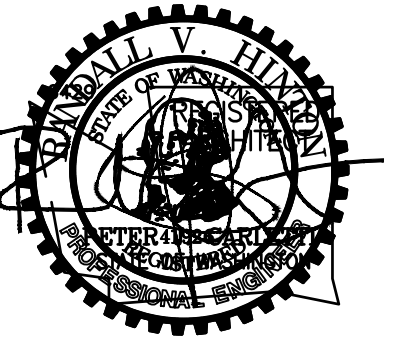
MECHANICAL PLANS



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Facility Improvements Phase II
2007 SOUTH O STREET, SUITE E
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17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

COVER SHEET

HVAC

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

8/9/2017
DATE

17-140 POPA AECS BASE.DWG
COMPUTER FILE NAME

M1.0

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SYMBOL LIST					
SYMBOL	ABBV.	DESCRIPTION	SYMBOL	ABBV.	DESCRIPTION
		DUCT SECTION - SUPPLY		T'STAT	THERMOSTAT
		DUCT SECTION - RETURN		S	SWITCH
		RECTANGULAR DUCT (INSIDE DIMENSION)		COS	CARBON MONOXIDE SENSOR
		ROUND DUCT		NO	NITROGEN OXIDE SENSOR
	SL	SOUND LINED DUCT (INSIDE DIMENSION)		AFF	ABOVE FINISHED FLOOR
		FLEXIBLE DUCT		CDS	CEILING DIFFUSER-SURFACE MOUNTED
		ADJUSTABLE AIR EXTRACTOR		CDL	CEILING DIFFUSER-LAY IN
	VD	VOLUME DAMPER		CGS	CEILING GRILLE-SURFACE MOUNTED
	MD	MOTORIZED DAMPER		CGL	CEILING GRILLE-LAY IN
	BDD	BACKDRAFT DAMPER		COP	COEFFICIENT OF PERFORMANCE
	SFD	COMBINATION SMOKE/FIRE DAMPER		X	DEMOLISH
	FD	FIRE DAMPER		DWG	DRAWING
	RAD	CEILING RADIATION DAMPER		E, EXIST.	EXISTING ITEMS
	SD	DUCT SMOKE DETECTOR		ELECT.	ELECTRICAL
	CND	CONDENSATE PIPING		EC	ELECTRICAL CONTRACTOR
	R	REFRIGERANT PIPING		EER	ENERGY EFFICIENCY RATING
				EFF	EFFICIENCY/EFFICIENT
				FR	FLOOR REGISTER
				GC	GENERAL CONTRACTOR
				HSPF	HEATING SEASONAL PERFORMANCE FACTOR
				HWR	HIGH WALL REGISTER
				HWG	HIGH WALL GRILLE
				I.E.	INVERT ELEVATION
				IPLV	INTEGRATED PART LOAD VALUE
				LWR	LOW WALL REGISTER
				LWG	LOW WALL GRILLE
				MC	MECHANICAL CONTRACTOR
				MECH.	MECHANICAL
				OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
				POC	POINT OF CONNECTION
				TYP.	TYPICAL
				U.O.N.	UNLESS OTHERWISE NOTED
					EQUIPMENT TAG
					FLAG NOTE
					CONNECTION (NECK) SIZE
					TYPE (CEILING DIFF. LAY-IN)
					FLOW RATE (CUBIC FEET PER MINUTE)
					DETAIL NUMBER
					SHEET ON WHICH DETAIL IS DRAWN
					SECTION INDICATOR
					SHEET ON WHICH SECTION IS DRAWN

SCOPE OF WORK
THIS PROJECT CONSISTS OF ADDING (2) 20 TON PACKAGE HEAT PUMPS (FOIC) LOCATED ON THE GROUND. THESE HEAT PUMPS WILL SERVE AN EXISTING STEEL FRAMED BUILDING USED FOR MANUFACTURING. EQUIPMENT WILL UTILIZE ECONOMIZERS AND WILL CONVEY AIR THROUGH NEW DUCT WORK.

LOAD CALCULATIONS
SEE SHEET M1.1

STRUCTURAL
NO STRUCTURAL CALCULATIONS REQUIRED EQUIPMENT LOCATED ON GRADE

FALL PROTECTION
NO FALL PROTECTION REQUIRED BECAUSE NO EQUIPMENT IS LOCATED ON THE ROOF

GENERAL NOTES
MECHANICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND DO NOT NECESSARILY REFLECT EVERY REQUIRED OFF-SET, FITTING OR ACCESSORY.
COORDINATE INSTALLATION OF MECHANICAL SYSTEMS WITH BUILDING STRUCTURE AND ALL OTHER TRADES.
VERIFY VOLTAGES AT THE SITE PRIOR TO ORDERING ANY EQUIPMENT.
MAJOR APPLICABLE CODES:
2015 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS
2015 INTERNATIONAL MECHANICAL CODE WITH WASHINGTON STATE AMENDMENTS
2015 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS
2015 INTERNATIONAL ENERGY CODE WITH WASHINGTON STATE AMENDMENTS
2015 INTERNATIONAL FUEL GAS CODE WITH WASHINGTON STATE AMENDMENTS

2015 WASHINGTON STATE ENERGY CODE NOTES

NOTE: ITEMS IN (PARENTHESIS) REFERENCE CODE SECTIONS FROM THE 2015 WASHINGTON STATE ENERGY CODE.

(C403.2 PROVISIONS APPLICABLE TO ALL MECHANICAL SYSTEMS) CONTRACTOR SHALL PROVIDE ALL MECHANICAL SYSTEMS AND EQUIPMENT, SERVING THE BUILDING HEATING, COOLING OR VENTILATING NEEDS, WHICH COMPLY WITH SECTIONS C403.2.1 THROUGH C403.2.13.

(C403.2.3 HVAC EQUIPMENT PERFORMANCE REQUIREMENTS) CONTRACTOR SHALL PROVIDE EQUIPMENT WHICH MEET THE MINIMUM EFFICIENCY REQUIREMENTS OF TABLE C403.2.3(2). WHEN TESTED AND RATED IN ACCORDANCE WITH THE APPLICABLE TEST PROCEDURE, PLATE-TYPE LIQUID-TO-LIQUID HEAT EXCHANGERS SHALL MEET THE MINIMUM REQUIREMENTS OF TABLE C403.2.3(10).

(C403.2.4.1.1 HEAT PUMP SUPPLEMENTARY HEAT) CONTRACTOR SHALL PROVIDE ALL UNITARY AIR COOLED HEAT PUMPS WITH MICROPROCESSOR CONTROLS WHICH MINIMIZE SUPPLEMENTAL HEAT USAGE DURING START-UP, SET-UP, AND DEFROST CONDITIONS. THESE CONTROLS SHALL ANTICIPATE NEED FOR HEAT AND USE COMPRESSION HEATING AS THE FIRST STAGE OF HEAT. CONTROLS SHALL INDICATE WHEN SUPPLEMENTAL HEATING IS BEING USED THROUGH VISUAL MEANS (E.G. LED INDICATORS). HEAT PUMPS EQUIPPED WITH SUPPLEMENTARY HEATERS SHALL BE INSTALLED WITH CONTROLS THAT PREVENT SUPPLEMENTAL HEATER OPERATION ABOVE 40°F.

(C403.2.4.7. ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD)) CONTRACTOR SHALL PROVIDE ALL AIR-COOLED UNITARY DIRECT EXPANSION UNITS, WITH A COOLING CAPACITY OF 54,000 BTU/H OR GREATER LISTED IN TABLES C403.2.3(1) THROUGH C403.2.3(3) THAT ARE EQUIPPED WITH AN ECONOMIZER, WITH FAULT DETECTION AND DIAGNOSTICS (FDD) PER SECTION C403.2.4.7.

(C403.2.6 VENTILATION) CONTRACTOR SHALL PROVIDE VENTILATION, EITHER NATURAL OR MECHANICAL, IN ACCORDANCE WITH CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE. WHERE MECHANICAL VENTILATION IS PROVIDED, THE SYSTEM SHALL BE CONFIGURED TO PROVIDE NO GREATER THAN 150 PERCENT OF THE MINIMUM OUTDOOR AIR REQUIRED BY CHAPTER 4 OF THE INTERNATIONAL MECHANICAL CODE OR OTHER APPLICABLE CODE OR STANDARD, WHICHEVER IS GREATER.

(C403.2.8.1) CONTRACTOR SHALL PROVIDE DUCTS, SHAFTS AND PLENUMS CONVEYING OUTSIDE AIR FROM THE EXTERIOR OF THE BUILDING TO THE MECHANICAL SYSTEM WHICH MEET ALL AIR LEAKAGE AND BUILDING ENVELOPE INSULATION REQUIREMENTS OF SECTION C402. PLUS BUILDING ENVELOPE VAPOR CONTROL REQUIREMENTS FROM THE INTERNATIONAL BUILDING CODE, EXTENDING CONTINUOUSLY FROM THE BUILDING EXTERIOR TO AN AUTOMATIC SHUTOFF DAMPER OR HEATING OR COOLING EQUIPMENT. FOR THE PURPOSES OF BUILDING ENVELOPE INSULATION REQUIREMENTS, DUCT SURFACES SHALL MEET THE REQUIREMENTS FOR METAL FRAMED WALLS PER TABLE C402.1.2.

C403.2.8.2 CONTRACTOR SHALL PROVIDE ALL OTHER SUPPLY AND RETURN AIR DUCTS AND PLENUMS WITH A MINIMUM OF R-6 INSULATION WHERE LOCATED IN UNCONDITIONED SPACES AND A MINIMUM OF R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY MINIMUM INSULATION VALUE AS REQUIRED FOR EXTERIOR WALLS BY SECTION C402.3.

THERE ARE NO SUPPLY DUCTS IN THIS PROJECT WHICH CONVEY SUPPLY AIR AT TEMPERATURES LESS THAN 55°F OR GREATER THAN 105°F THAT REQUIRE INSULATION WITHIN CONDITIONED SPACE. ALL DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH SECTION 603.9 OF THE INTERNATIONAL MECHANICAL CODE.

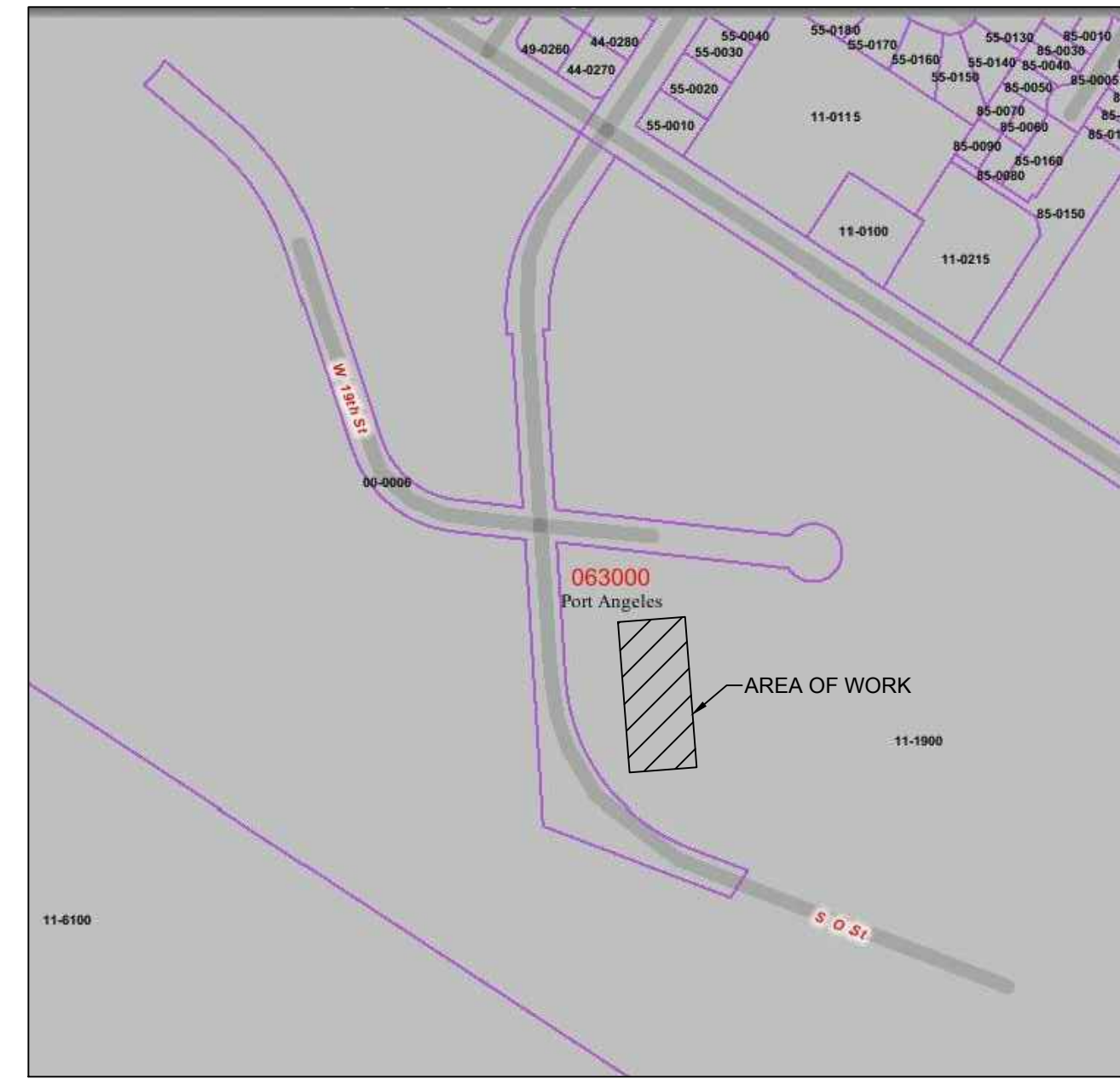
(C403.2.8.3.1 LOW-PRESSURE DUCT SYSTEMS) CONTRACTOR SHALL PROVIDE ALL LONGITUDINAL AND TRANSVERSE JOINTS, SEAMS AND CONNECTIONS OF SUPPLY AND RETURN DUCTS OPERATING AT A STATIC PRESSURE LESS THAN OR EQUAL TO 2 INCHES WATER GAUGE (W.G.) (500 PA) WITH SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS EMBEDDED-FABRIC SYSTEMS OR TAPES INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PRESSURE CLASSIFICATIONS SPECIFIC TO THE DUCT SYSTEM SHALL BE CLEARLY INDICATED ON THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE.

C403.3 ECONOMIZERS (PRESCRIPTIVE). AIR ECONOMIZERS SHALL BE PROVIDED ON THE NEW SYSTEMS. ECONOMIZERS SHALL COMPLY WITH SECTIONS C403.3.1 THROUGH C403.3.4.

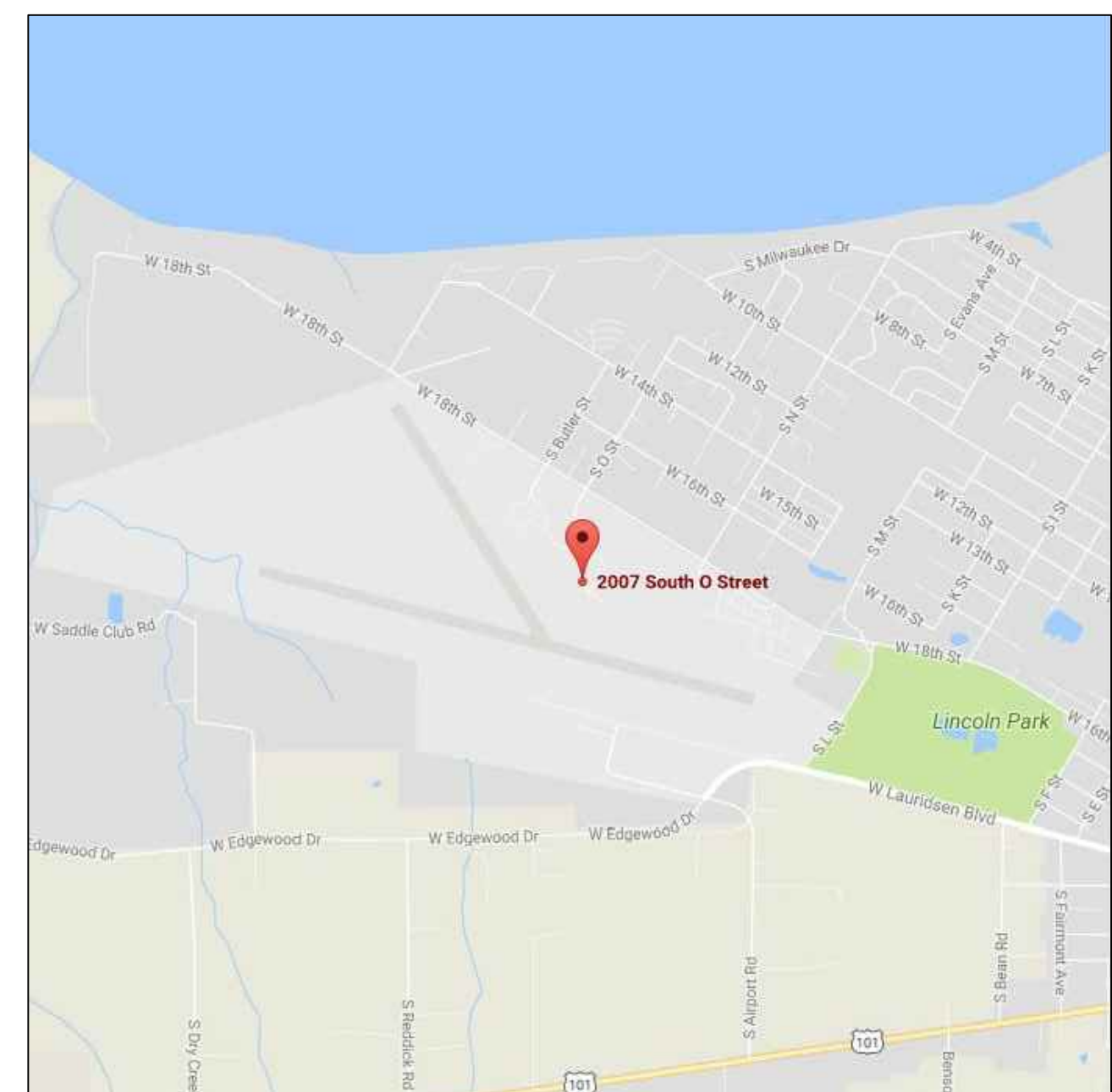
(C403.2.10 MECHANICAL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS) MECHANICAL SYSTEMS SHALL BE COMMISSIONED AND COMPLETED IN ACCORDANCE WITH SECTION C408.

(C403.3.3.3 HIGH-LIMIT SHUTOFF) CONTRACTOR SHALL PROVIDE AIR ECONOMIZERS CAPABLE OF AUTOMATICALLY REDUCING OUTDOOR AIR INTAKE TO THE DESIGN MINIMUM OUTDOOR AIR QUANTITY WHEN OUTDOOR AIR INTAKE WILL NO LONGER REDUCE COOLING ENERGY USAGE. HIGH-LIMIT SHUTOFF CONTROL TYPES FOR SPECIFIC CLIMATES SHALL BE CHOSEN FROM TABLE C403.3.3.3.

(C403.3.1.1.4 RELIEF OF EXCESS OUTDOOR AIR) CONTRACTOR SHALL PROVIDE POWER EXHAUST AT EACH HEAT PUMP CAPABLE OF RELIEVING EXCESS OUTDOOR AIR DURING AIR ECONOMIZER OPERATION TO PREVENT OVER-PRESSURIZING THE BUILDING. THE RELIEF AIR OUTLET SHALL BE LOCATED TO AVOID RECIRCULATION INTO THE BUILDING.



1 SITE MAP
NTS



2 VICINITY MAP
NTS

DRAWING INDEX	
SHEET	DESCRIPTION
M1.0	MECHANICAL COVER SHEET
M1.1	SCHEDULES
M1.2	ENERGY CODE FORMS / LOAD CALCS
M2.0	FIRST FLOOR PLAN - PLUMBING
M3.0	FIRST FLOOR PLAN - HVAC
M4.0	DETAILS

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COMPUTER FILE NAME

PACKAGED HEAT PUMP SCHEDULE																							
FURNISHED BY OWNER, INSTALLED BY CONTRACTOR (FOIC)																							
EQUIP. TAG	MFG / MODEL	AREA SERVED	DISCHARGE	NOMINAL TONS	SUPPLY FAN DATA						COOLING DATA			HEATING DATA			ELECTRICAL DATA			SOUND BELS	WEIGHT (LBS)	REMARKS	
					AIRFLOW CFM	ESP in W.G.	H.P.	MOTOR DRIVE	OUTSIDE AIR CFM	ECON. CYCLE	TOTAL MBH	SENS. MBH	IEER / EER	HIGH TEMP OUTPUT MBTU	LOW TEMP OUTPUT MBTU	COP HTR/LTR	ELEG HEAT KW	MCA	VOLTS				PH
HP-1	TRANE / WSH240E4N	MANUFACTURING	HORZ	20	8,000	0.8	5	BELT	1600	YES	267.8	190	11.5 / 9.7	210.0	120.0	3.2/2.1	36.00	108	480	3	9.4	3000	1,2,3,4,5,6,7
HP-2	TRANE / WSH240E4N	MANUFACTURING	HORZ	20	8,000	0.8	5	BELT	1600	YES	267.8	190	11.5 / 9.7	210.0	120.0	3.2/2.1	36.00	108	480	3	9.4	3000	1,2,3,4,5,6,7

- NOTES:
1. PROVIDE UNIT WITH MICRO METL FULLY MODULATING ECONOMIZER AND ALL REQUIRED CONTROLS. 24V POWER FROM HEAT PUMP
 2. PROVIDE MICRO METL PEH-VOYB-4-CE POWER EXHAUST WITH PRESSURE SENSOR LOCATED IN BUILDING. POWER EXHAUST ELECTRICAL SEPARATE FROM HEAT PUMP 6.4 AMP (460V / 3PH (2) 2 HP)
 3. COOLING CAPACITY RATINGS AT 95F OUTDOOR, 80DB/67WB ENTERING AIR F
 4. PROVIDE CONCRETE HOUSE KEEPING PAD SUPPORT (MIN 8" ABOVE GRADE)
 5. PROVIDE WITH 7 DAY PROGRAMMABLE THERMOSTAT
 6. PROVIDE WITH CRANKCASE HEATERS
 7. PROVIDE UNIT WITH FACTORY RELIEF DAMPER
 8. PROVIDE DUCT MOUNTED RETURN AIR SMOKE DETECTOR WITH AUDIBLE AND VISUAL ALARM.

AIR TERMINAL DEVICE SCHEDULE							
ITEM	MARK	MANUFACTURER	MODEL	MATERIAL	MOUNTING	FINISH	REMARKS
DRUM LOUVER	DL	TITUS	US-DL	ALUMINUM	DUCT	#35 MILL	ANGLE MOUNT 30° DOWNWARD
RETURN GRILLE	LWG	TITUS	30RS	STEEL	DUCT	#26 WHITE	

NOTE: NECK CONNECTION SIZE AND TERMINAL SIZE AS NOTED ON MECHANICAL FLOOR PLAN

DUCTWORK INSULATION				
NOTE: ALL SYSTEMS AND INSULATION TYPES MAY NOT BE USED ON EACH PROJECT				
SERVICE	DUCT LOCATION/ TYPE	FIBERGLASS INSULATION TYPE	THICKNESS	NOTES
OUTSIDE BUILDING ENVELOPE				
SUPPLY/ RETURN OUTSIDE BUILDING	OUTSIDE BUILDING ENVELOPE	GALVANIZED SHEETMETAL OR ALUMINUM CLAD DUCT W/ INTERNAL INSULATION	2"	INTERNAL INSUL TO HAVE MIN. R-8 THERMAL PERFORMANCE
INSIDE BUILDING ENVELOPE				
EXPOSED SUPPLY AIR	EXPOSED INSTALLATION. LOW PRESSURE SUPPLY FROM SUPPLY DUCT AT BUILDING ENTRANCE TO DIFFUSERS	N/A	N/A	FAN COIL PROVIDES SUPPLY AIR WITHIN 15 °F OF SPACE TEMPERATURE

INSULATION SPECIFICATION: KNAUF, CERTAINTEED, OWENS CORNING, OR APPROVED EQUAL

NOTES: 1. FIBERGLASS ACOUSTIC DUCT LINER - 1.5 PCF - 2" THICKNESS, R=8.0. GLASS FIBERS SHALL HAVE AIRSTREAM COATING TO PREVENT EROSION

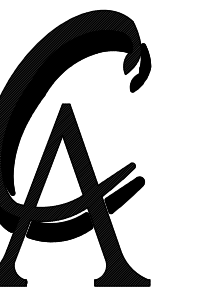
DUCTWORK SCHEDULE						
NOTE: ALL SYSTEMS AND PIPING MATERIALS MAY NOT BE USED ON EVERY PROJECT						
SERVICE/ USAGE	LOCATION	MATERIAL	WORKING PRESSURE (IN. W.C.)	SMACNA PRESSURE CLASS (IN. W.C.)	SMACNA SEAL CLASS	REMARKS
LOW PRESSURE SUPPLY AIR	SUPPLY AIR FROM HEAT PUMP TO DISTRIBUTED FAN COILS	GALV. STEEL	LOW PRESSURE	1	B	1, 3
RETURN AIR	FROM GRDS TO FAN COILS AND RTUS	GALV. STEEL	LOW PRESSURE	1	B	1, 3
GENERAL EXHAUST	FROM GRD TO FAN AND AMBIENT	GALV. STEEL	LOW PRESSURE	1	B	1, 3

- NOTES:
1. SHEET METAL GAGES AND FITTINGS PER SMACNA AND ALLIANT DUCT CONSTRUCTION STANDARDS
 2. SEAL ALL LONGITUDINAL AND TRANSVERSE DUCT JOINTS WITH WELDS, GASKETS, MASTICS, TAPES, OR OTHER APPROVED SYSTEMS INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS
 3. INSTALL PER MFG. GUIDELINES AND INSTRUCTIONS
 4. FLEX DUCT TO HAVE MAXIMUM 8 FT. LENGTH. THERMAFLEX "GKM" OR EQUAL
 5. SEAL JOINTS AT VAPOR EXHAUST DUCT WATERTIGHT W/ SILICONE CAULK

DESTRATIFICATION FAN SCHEDULE												
EQUIP. TAG	MFG / MODEL NUMBER	DIA	FAN MOTOR				DRIVE	CONFIGURATION	WEIGHT	AREA SERVED	SOUND LEVEL MAX	REMARKS
			HP	AMP	VOLTS	PH.						
DF-1 & DF-2	B A SOLUTIONS / PFX3-16	16 FT	1.5	30 A	208	3	DIRECT	CEILING FAN	275	OPEN SPACE	55 dBA	1

NOTES:

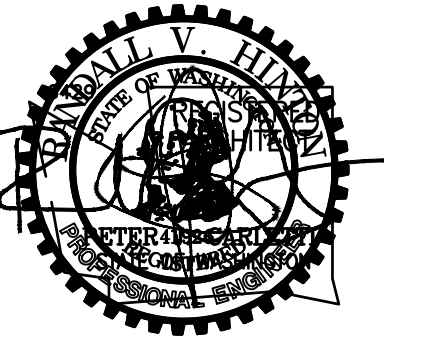
1. PROVIDE WALL MOUNTED CONTROLLER - WALL MOUNTED DIGITAL KEY PAD, LED DISPLAY, CAT5 ETHERNET CABLE TO VFD IN FAN



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MULTI-TENANT INDUSTRIAL BLDG.
Facility Improvements Phase II
2007 SOUTH O STREET, SUITE E
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
PORT OF PORT ANGELES
(360) 417-3422



17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

SCHEDULES

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

PJC
CHECKED BY:

8/9/2017
DATE

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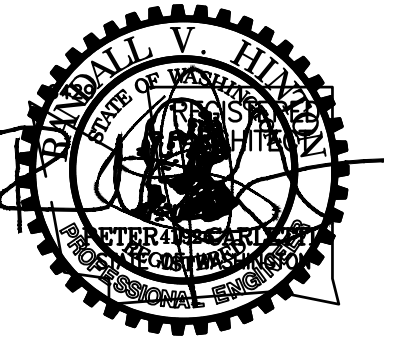
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17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

ENERGY CODE
HTG/CLG LOAD CALCS

PJC
PROJECT ARCHITECT:
PJC
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PJC
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8/9/2017
DATE

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COMPUTER FILE NAME

M1.2

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Mechanical Summary MECH-SUM

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 Revised January 2017
Project Information
Project Title: POPA LIGHT OPERATIONS BUILDING T1 Date: 1/1/2015
Applicant Name: HARRIS GROUP
Company Address: 20201 CEDAR VALLEY RD
Applicant Name: RICHARD HAWKINSON
Applicant Phone: 425-774-3829

Project Description
Briefly describe mechanical systems in the text box provided
THIS PROJECT CONSISTS OF ADDING (2) 20TON, GROUND LOCATED HEAT PUMPS TO AN EXISTING BUILDING THAT WILL SERVE PREVIOUSLY CONDITIONED SPACE. EQUIPMENT WILL UTILIZE ECONOMIZERS AND WILL CONVEY AIR THROUGH NEW DUCT WORK.

Design Load Calculations
Load calculation summary
MECH-LOAD-CALC Form
MECH-EQ Forms (TBD)

Mechanical Schedules
DOAS is required per C403.6 effective July 1, 2017 (office, retail, education, library and fire station occupancies)
All occupied, conditioned areas shall be served by a DOAS that delivers required ventilation air in a manner that does not require space conditioning fan operation. Space conditioning fans cycled off when no heating or cooling is required.

Dedicated Outdoor Air System Requirements and High Efficiency VAV Alternate
Project includes HVAC air distribution systems that provide heating and/or cooling if yes, provide a MECH-FANSYS-SUM form.

Fan Power
For one or more systems, the total fan motor nameplate hp of all fans in HVAC system exceeds 5hp.

HVAC Hydronic Systems
Hydronic chilled water
Water-loop heat pump
Hydronic heating water
Geothermal

C406 Additional Efficiency Options - Mechanical
C406.2 More efficient HVAC equipment and fan systems
C406.6 Dedicated outdoor air system (DOAS)
C406.7 Reduced energy in service water heating

Mechanical Summary, pg. 2 MECH-SUM

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 Revised January 2017
Service Water Heating Systems
Equipment Type(s)
Hot water heating tank(s)
Instantaneous
Dedicated boiler
Heat exchange from space heat boiler or central hot water/steam
Circulation System
On-demand

Commissioning
Mechanical systems per C408.2
Service water heating systems per C408.4
Total output capacity of all mechanical space conditioning systems in the building do not exceed 240,000 Btu/h cooling or 300,000 Btu/h heating.

Low Energy and Semi-Heated Spaces (Note 6 and 7)

Table with 7 columns: Space Type, Location in Plan(s), Space(s) Served, Area Served, square feet, Heating Capacity, Btu/h (Note 4), Cooling Capacity, Btu/h (Note 5), Peak Space Conditioning Capacity, Btu/h-sf, Compliance Check, Notes

Note 4 - Provide total installed heating output capacity of systems serving Low Energy or Semi-Heated space(s) in Btu/h.
Note 5 - Provide total installed cooling capacity of system serving Low Energy space(s) in Btu/h. Not allowed for semi-heated spaces. Enter 0 if no cooling.
Note 6 - Refer to Section C402.1.1 Low Energy Building. Installed peak space conditioning capacity heating or cooling may not exceed 3.4 Btu/h/sf.
Note 7 - Refer to Section C402.1.1.1 and Semi-Heated Space definition in Chapter 5. Total heating output capacity may not exceed 8 Btu/h/sf. Only systems without electric resistance heating and no cooling are eligible for the wall insulation exception under semi-heated.

Mechanical Fan System Power Allowance MECH-FANSYS-SUM

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 Revised January 2017
Project Title: POPA LIGHT OPERATIONS BUILDING T1 Date: 1/1/2015

HVAC Air Distribution System Schedule
List all HVAC systems that have the capability to provide heating and/or cooling to the spaces they serve.
Table with 5 columns: System or Primary Supply Fan ID, Speed Control (Note 1), Description (Note 2), System Total Nameplate HP (Note 3), Fan Power Calculation Required (Note 4)

Note 1 - Constant Volume (CV), Variable Air Volume (VAV), or Hospital/Lab CV system that qualifies for VAV budget per C403.2.11.1 Exception 1.
Note 2 - Describe system type and list all fans (or groups of fans) associated with the delivery and removal of conditioned air by the system.
Note 3 - Enter the total nameplate hp of all fans associated with the delivery and removal of conditioned air by the system.

Mechanical Fan System Power Allowance MECH-FANSYS

2015 Washington State Energy Code Compliance Forms for Commercial Buildings including R2 & R3 over 3 stories and all R1 Revised January 2017
Project Title: POPA LIGHT OPERATIONS BUILDING T1 Date: 1/1/2015

A separate MECH-FANSYS form must be completed for every HVAC system that exceeds the 5 hp threshold.
Fan System ID: CV
System Supply Fan Speed Control: Constant Volume (CV), Variable Air Volume (VAV), or Hospital/Lab CV system that qualifies for VAV budget per C403.2.11.1, Exception 1.

Compliance Option: Nameplate HP: 16,000
Fan System Supply CFM Total: 16,000
Fan Equipment Schedule: Table with 6 columns: Fan ID and Location, Fan Type, Quantity of Fan Type, Total CFM (Note 1), Total Nameplate HP (Note 2), Total BHP (Note 3)

Table with 6 columns: Fan ID and Location, Fan Type, Quantity of Fan Type, Total CFM (Note 1), Total Nameplate HP (Note 2), Total BHP (Note 3)

Note 1 - Total CFM is the maximum CFM of the listed fan(s) when operating at peak design operating conditions.
Note 2 - Total nameplate hp of the listed fan(s).
Note 3 - Total brake horsepower (bhp) of the listed fan(s) at peak design operating conditions. Not required if Nameplate HP compliance option chosen.

Brake Horsepower Allowance Adjustments

Table with 5 columns: Device Type, Description and Location, CFM through this device (CFMD), Assigned Pressure Drop, PD in w.c. (Note 6), Calculated Pressure Drop, PD in w.c. (Note 7), Adjustment, A in bhp (Note 8)

Note 4 - Bhp allowance for energy recovery devices and run around coil loops includes both air streams, so the CFMD is the sum of the supply CFM and exhaust CFM if both go through the device.
Note 5 - Energy recovery effectiveness is defined as change in the enthalpy of the outdoor air supply divided by the enthalpy difference between the outdoor air and return air at design conditions.
Note 6 - Assigned pressure drop (PD) adjustment per Table C403.2.11.1(2).
Note 7 - Pressure drop (PD) adjustment shall be calculated per the applicable method defined in Table C403.2.11.1(2) based on specific system conditions.
Note 8 - A = PD * CFMD/413 where A is the allowed system brake horse power adjustment, PD is pressure drop allowance, and CFMD is the cfm through the device.

Total Adjustment (bhp):
Add Fan System Form

System Checksums By HARRIS GROUP INC.

HEAT PUMP
COOLING COIL PEAK
CLG SPACE PEAK
HEATING COIL PEAK
TEMPERATURES
AIR FLOWS
ENGINEERING CKS
AREAS
HEATING COIL SELECTION

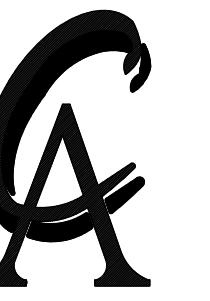
Project Name: Port Angeles, Inc
Dataset Name: Port Angeles, Inc
TRAC@ 700 v6.3.3 calculated at 10:00 AM on 07/18/2017
Alternative - 1 System Checksums Report Page 1 of 1

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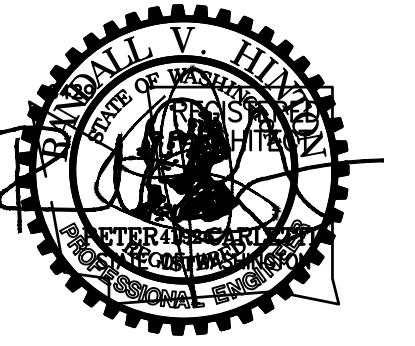
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CONTACT:
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17-140
PROJECT NUMBER:

REVISIONS:
08/14/17 BID SET

SHEET TITLE:

BELOW SLAB
PLUMBING

PJC
PROJECT ARCHITECT:

PJC
DRAWN BY:

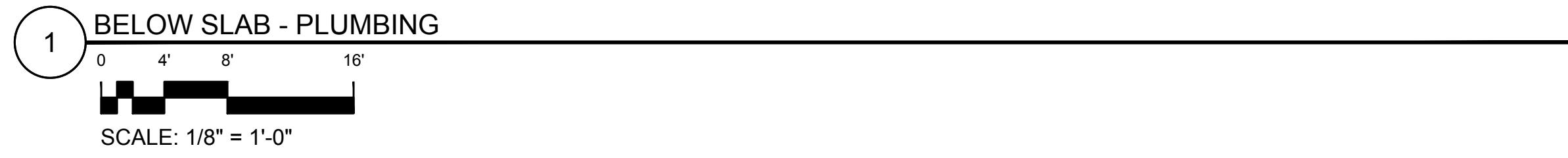
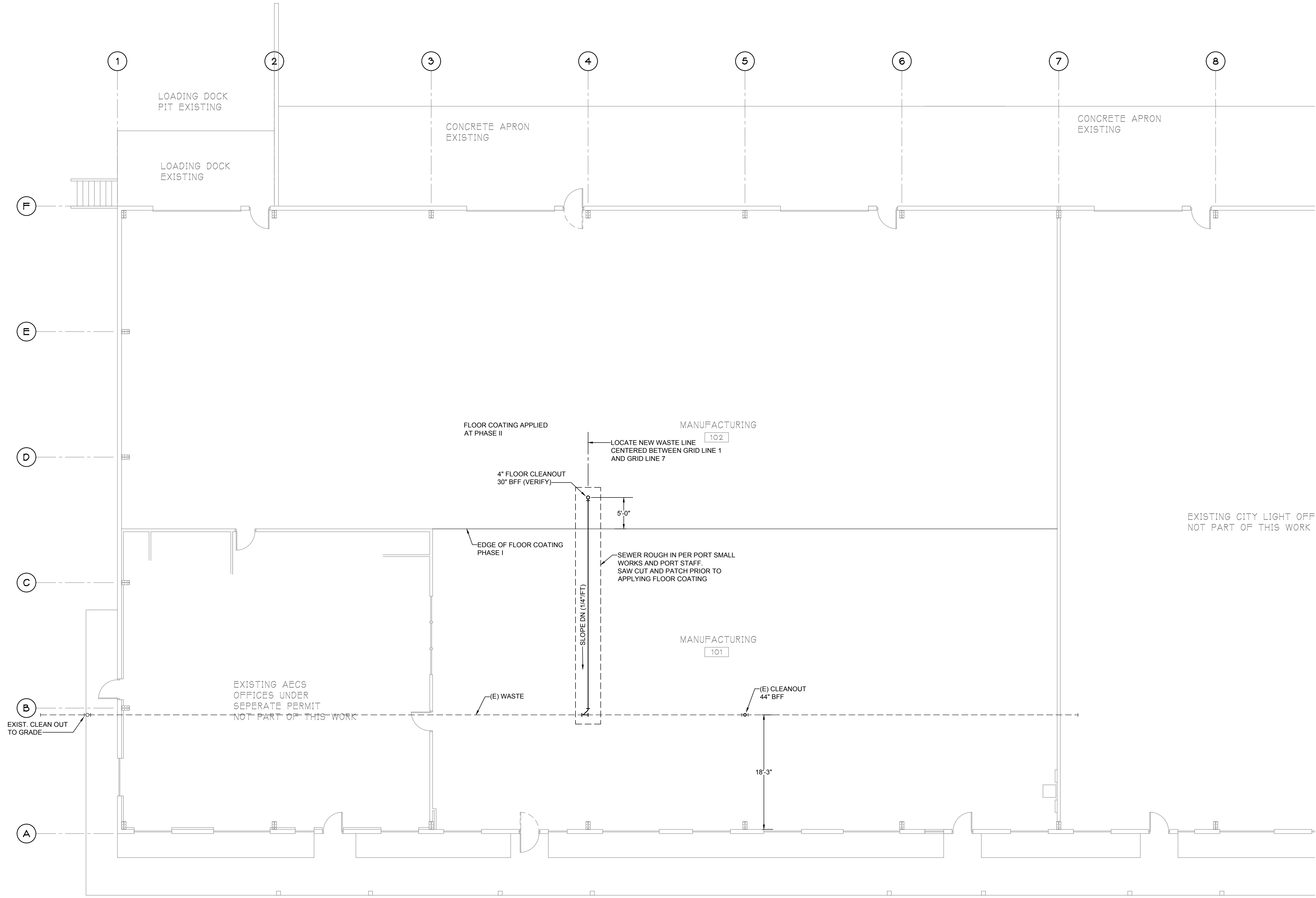
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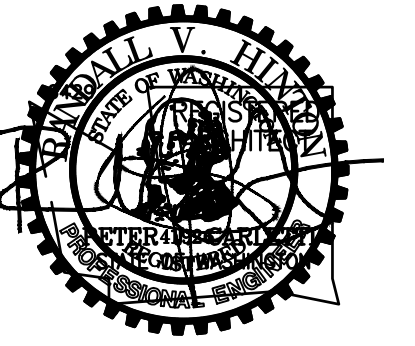




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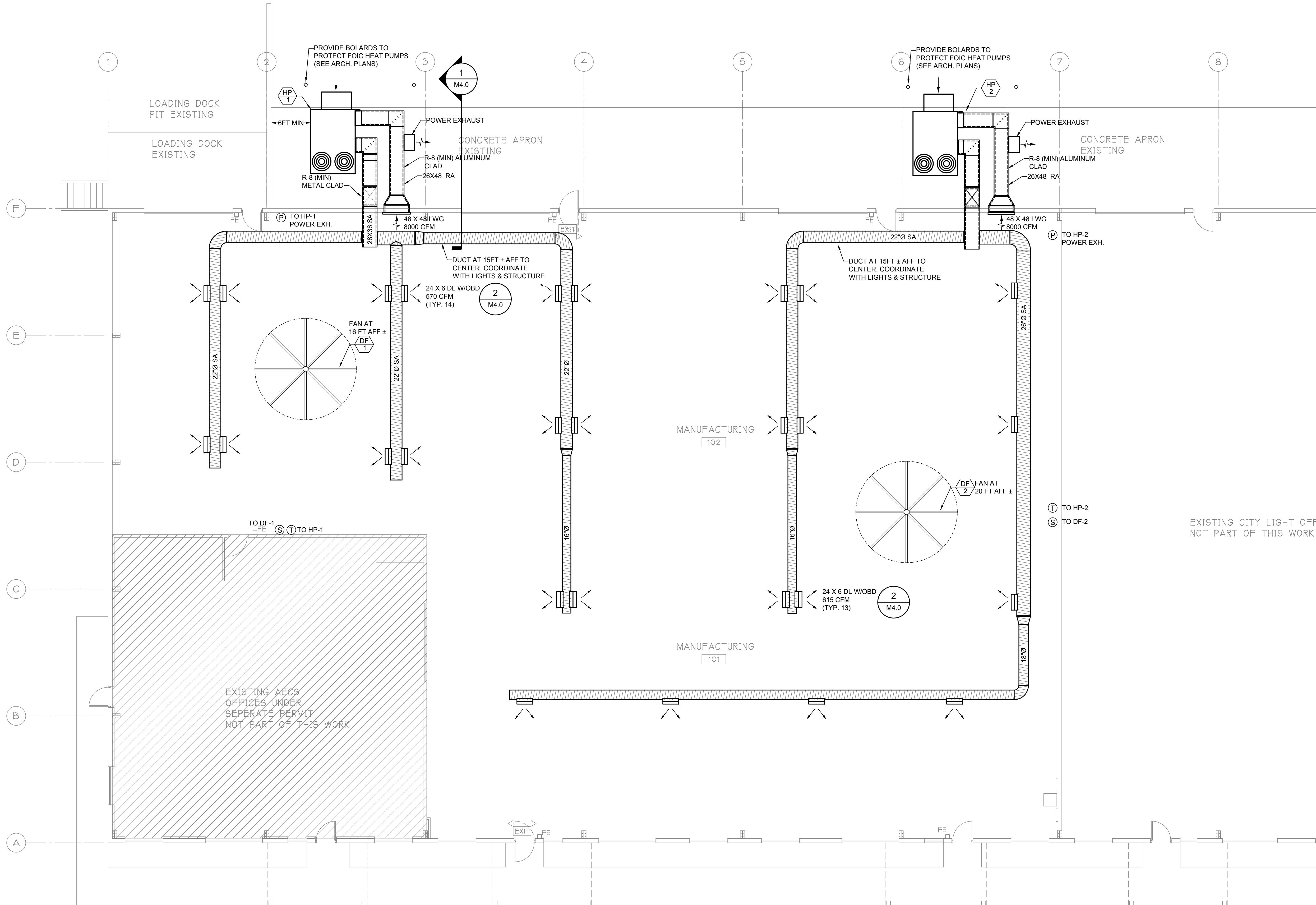
SHEET TITLE:
FLOOR PLAN
HVAC

PJC
PROJECT ARCHITECT:
PJC
DRAWN BY:
PJC
CHECKED BY:
8/9/2017
DATE

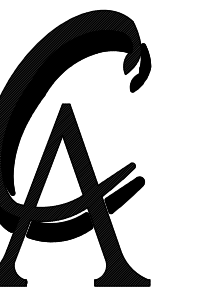
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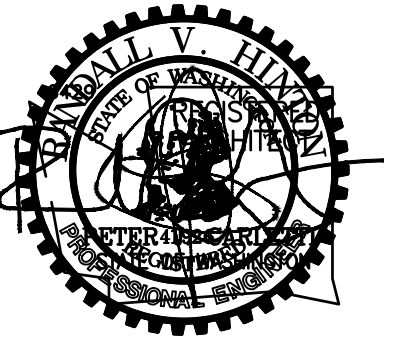
1 FLOOR PLAN - HVAC
SCALE: 1/8" = 1'-0"



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17-140
PROJECT NUMBER:

REVISIONS:
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SHEET TITLE:

DETAILS

HVAC

PJC
PROJECT ARCHITECT:

PJC
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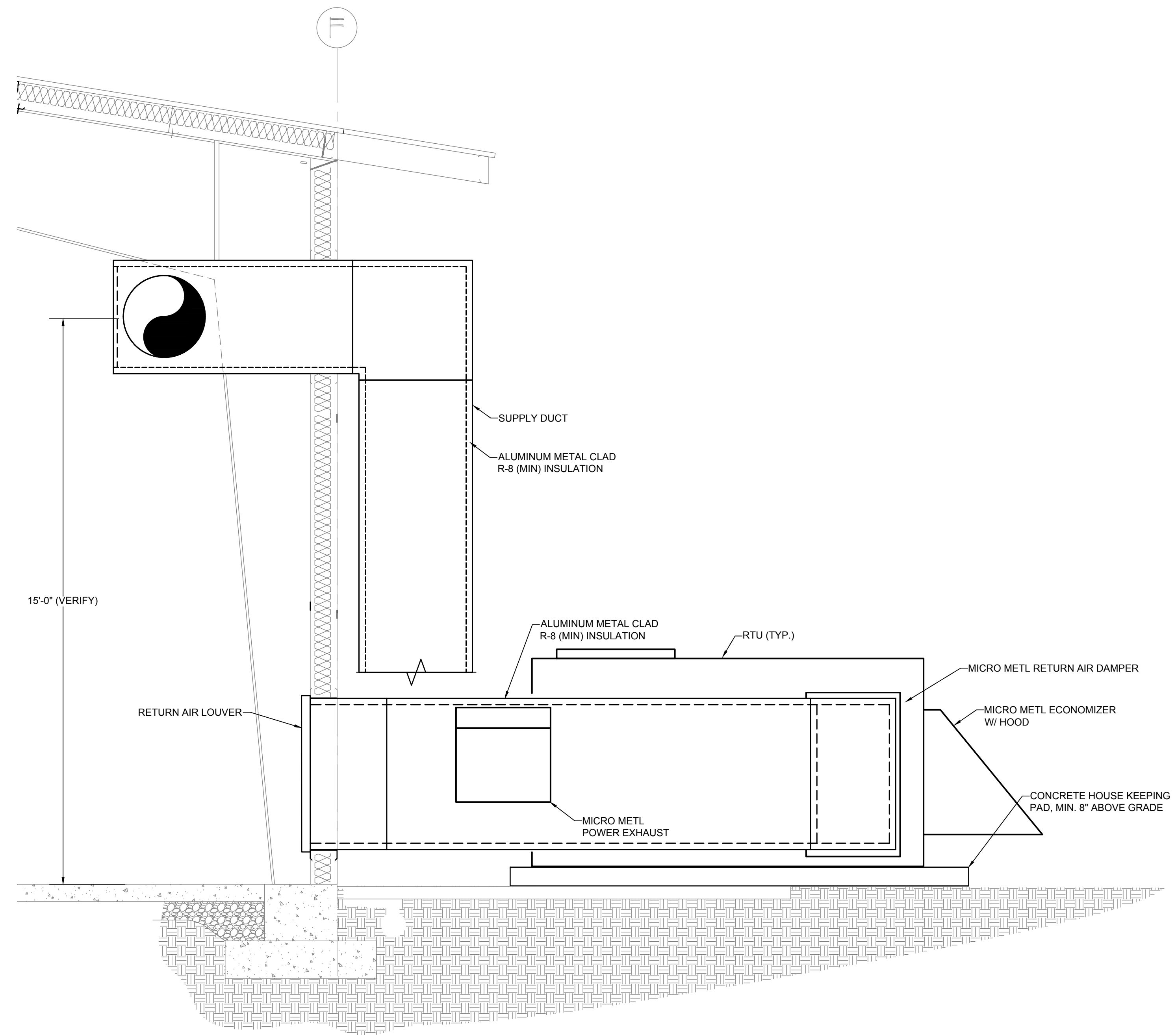
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DATE

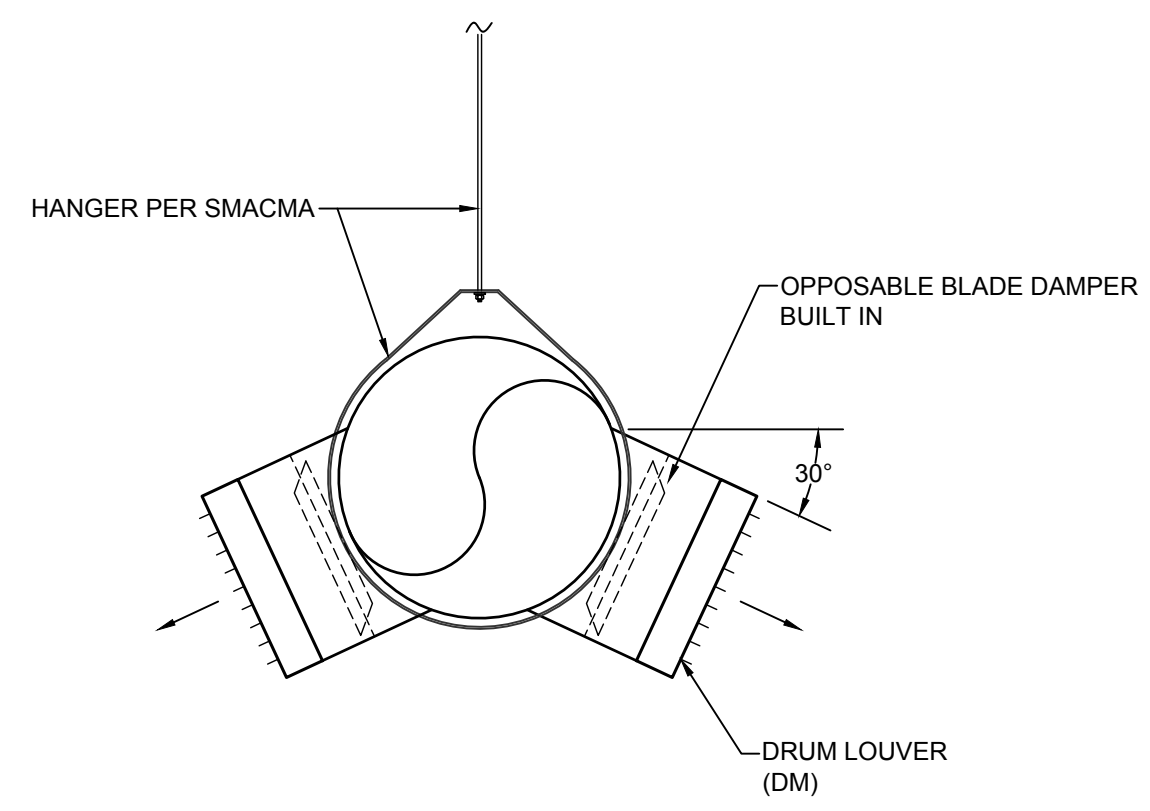
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1 MECHANICAL CROSS SECTION
0 1' 2' 4'
SCALE: 1/2" = 1'-0"



2 TYPICAL DRUM LOUVER DETAIL
NTS



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FAX: (360) 354-6794



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PROJECT NUMBER: 1854

REVISIONS:

08/14/2017 BID SET

SHEET TITLE:

ELECTRICAL -
OVERALL FLOOR PLAN

P. CARLETTI
PROJECT ARCHITECT.

KL
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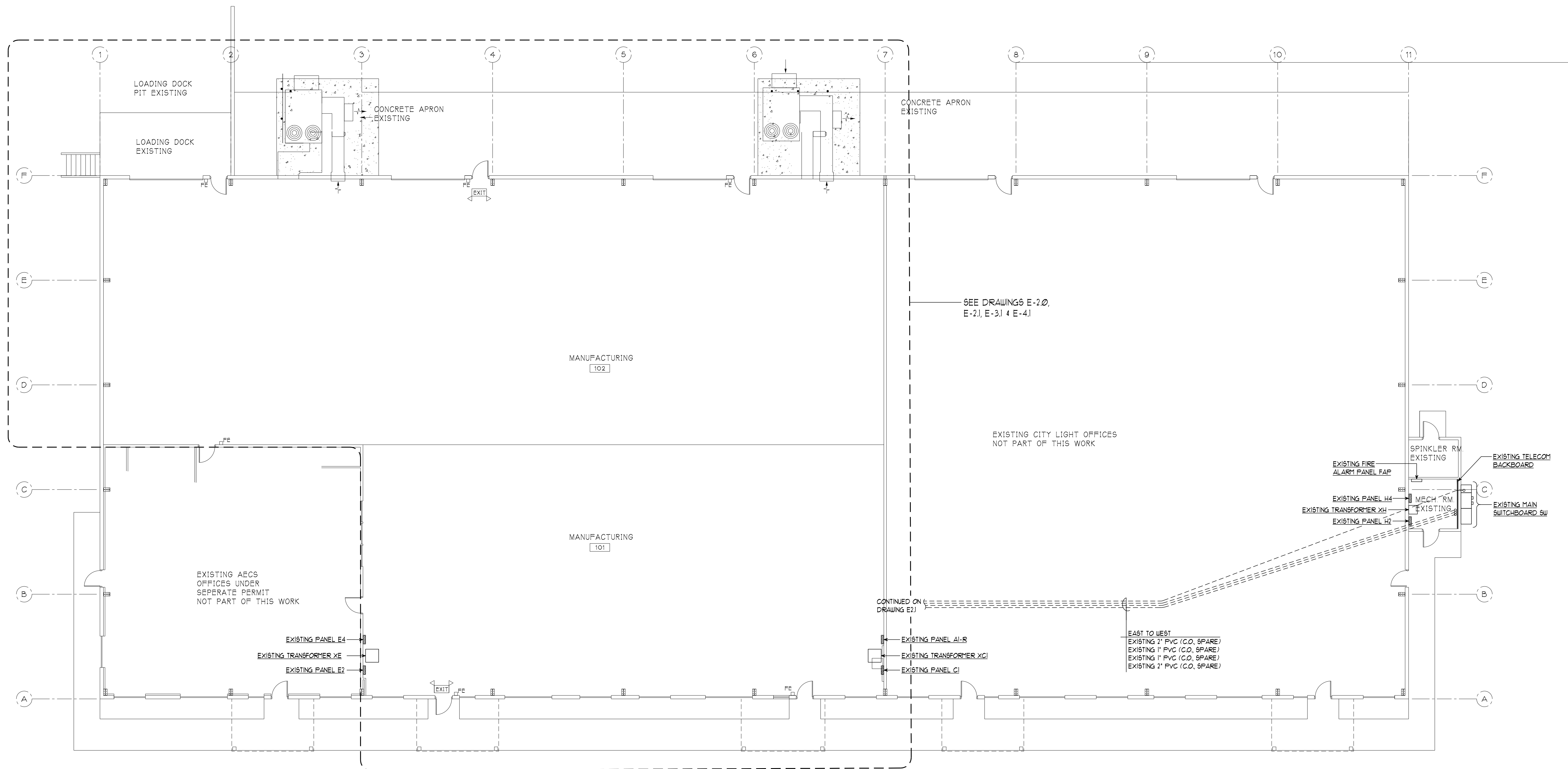
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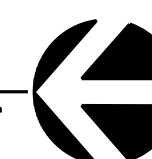
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ELECTRICAL - OVERALL FLOOR PLAN

SCALE: 1"=10'-0"



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PROJECT NUMBER: 1854

REVISIONS:
08/14/2017 BID SET

SHEET TITLE:
**ELECTRICAL -
DEMOLITION PLAN**

P. CARLETTI
PROJECT ARCHITECT.

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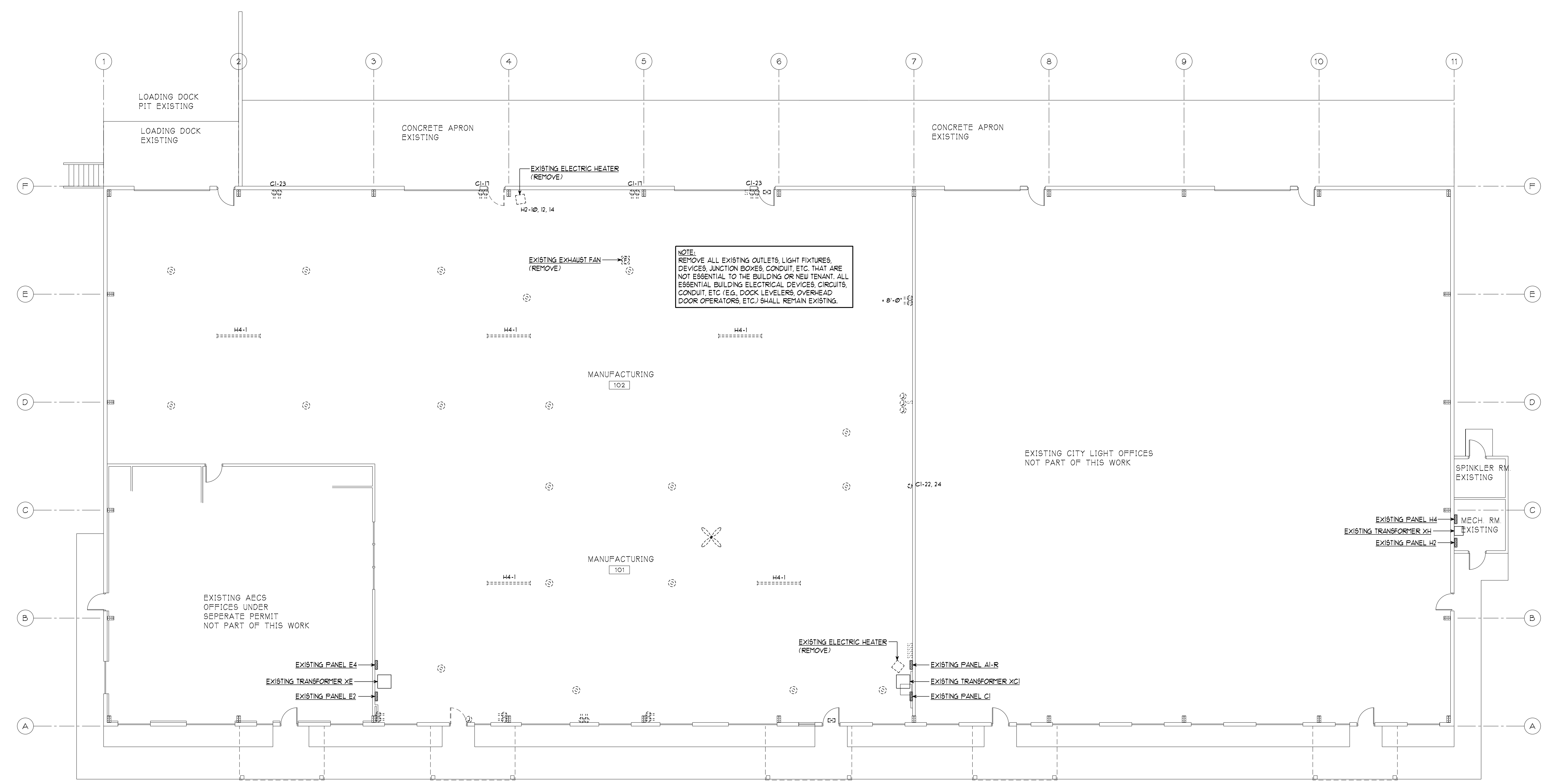
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AUGUST 14, 2017
DATE

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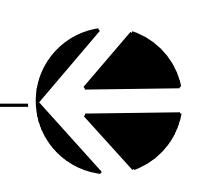
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ELECTRICAL - DEMOLITION PLAN

SCALE 1" = 10'-0"





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PROJECT NUMBER: 1854

REVISIONS:
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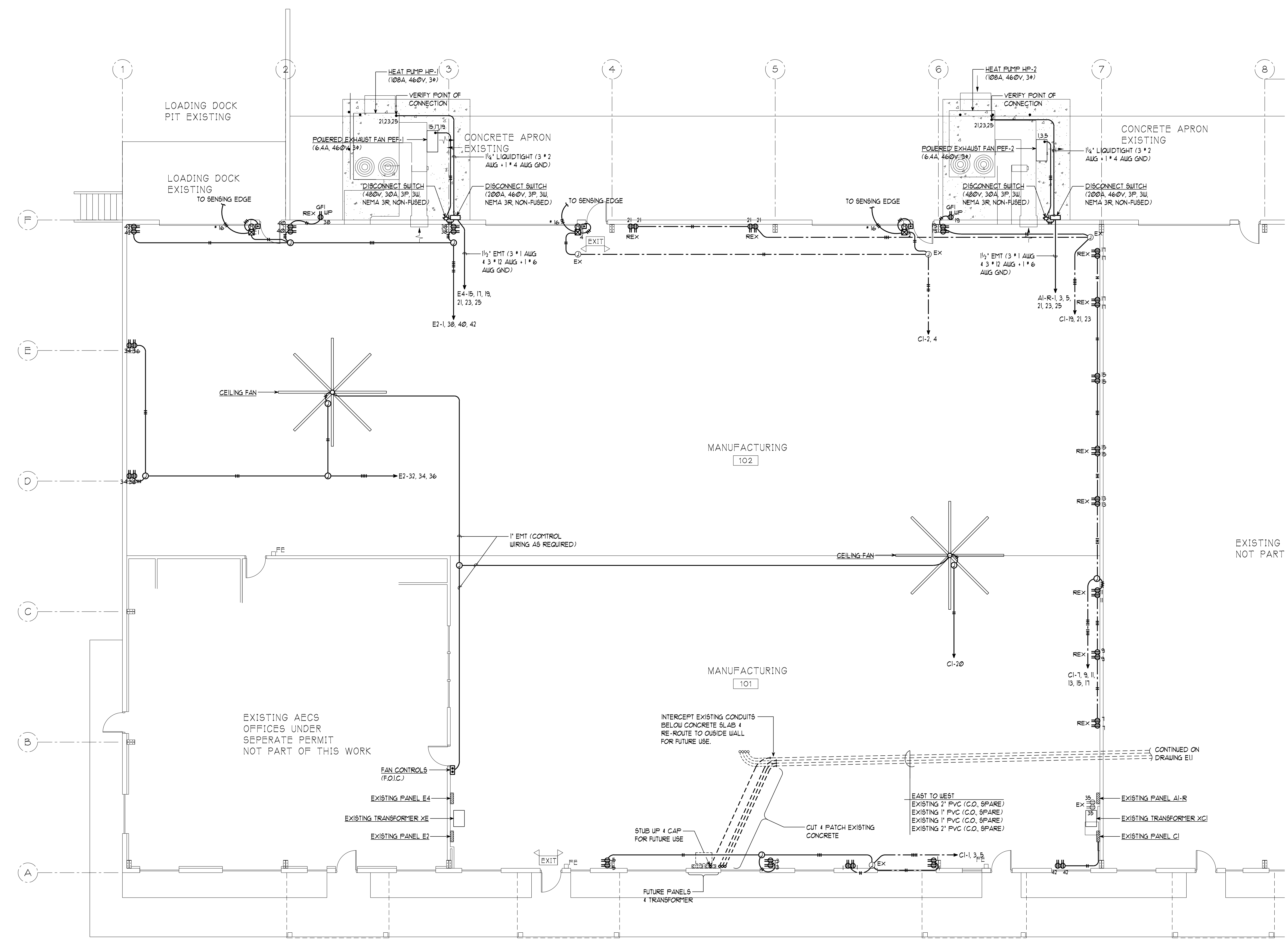
SHEET TITLE:
**ELECTRICAL -
POWER PLAN, NORTH**

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PROJECT ARCHITECT.
KL
DRAWN BY.
BD
CHECKED BY.
AUGUST 14, 2017
DATE

COMPUTER FILE NAME

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ELECTRICAL - POWER PLAN, NORTH

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



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PROJECT NUMBER: 1854

REVISIONS:
08/14/2017 BID SET

SHEET TITLE:
**ELECTRICAL -
LIGHTING PLAN, NORTH**

P. CARLETTI
PROJECT ARCHITECT.

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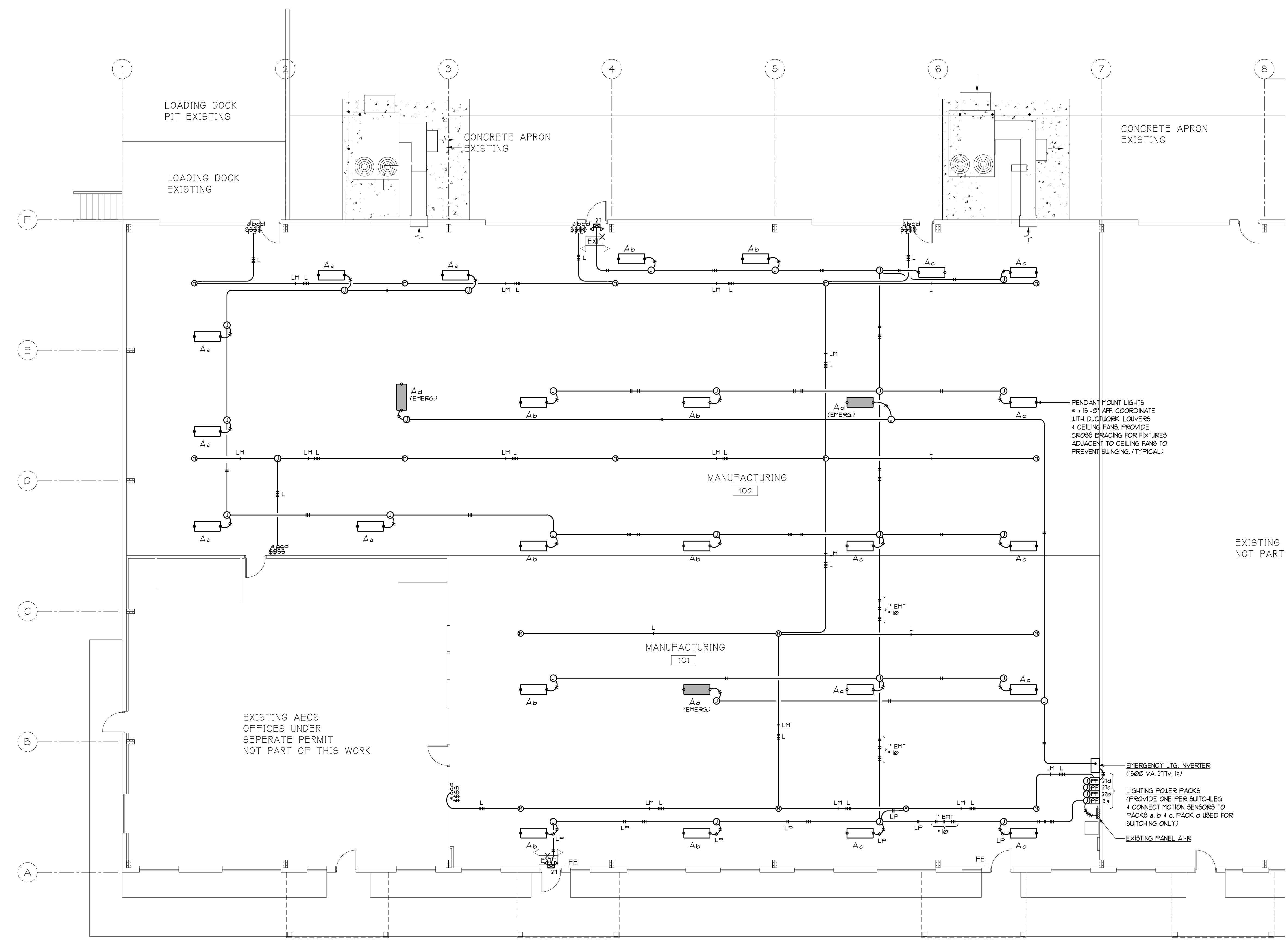
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ELECTRICAL - LIGHTING PLAN, NORTH

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



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MULTI-TENANT INDUSTRIAL BLD
Facility Improvements PHASE II
2007 SOUTH O STREET, SUITE I
PORT ANGELES, WA 98362

CONTACT:
CHRIS HARTMAN
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(360) 417-3422



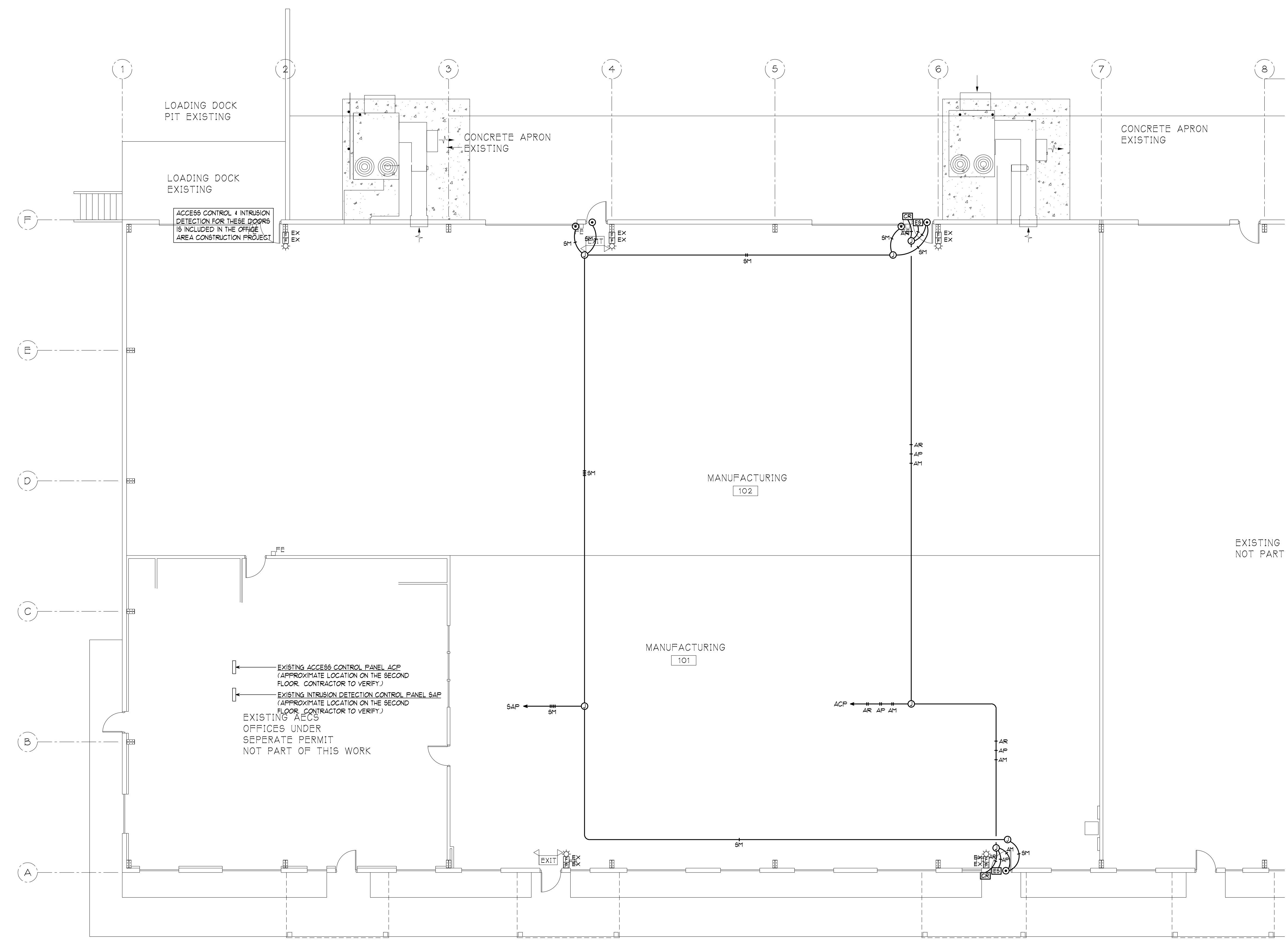
PROJECT NUMBER: 1854

REVISIONS:
08/14/2017 BID SET

SHEET TITLE:
**ELECTRICAL -
ANCILLARIES PLAN - NORTH**

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ELECTRICAL - ANCILLARIES PLAN, NORTH

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



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PROJECT NUMBER: 1854

REVISIONS:
08/14/2017 BID SET

SHEET TITLE:
POWER SYSTEM RISER DIAGRAM

P. CARLETTI
PROJECT ARCHITECT.

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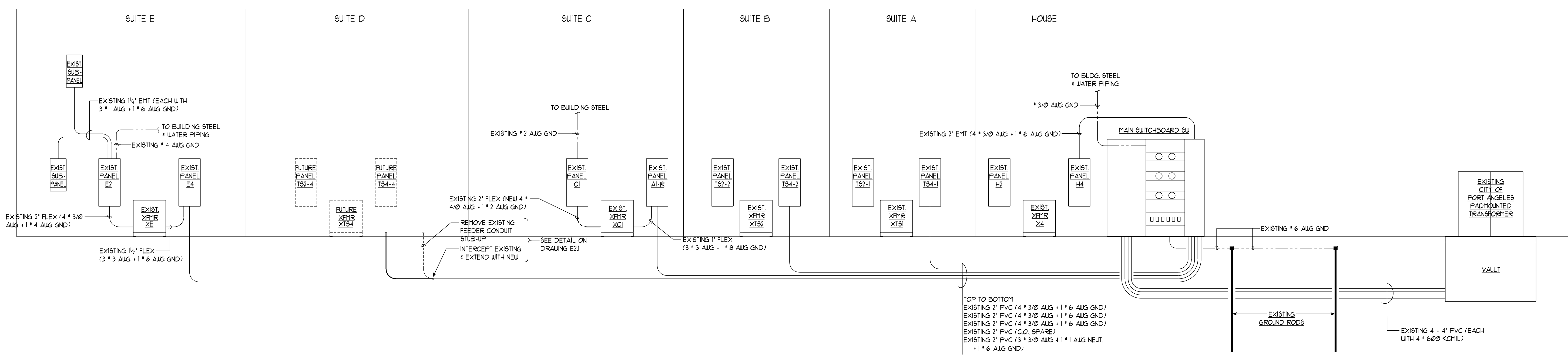
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EXISTING POWER SYSTEM RISER DIAGRAM

NO SCALE



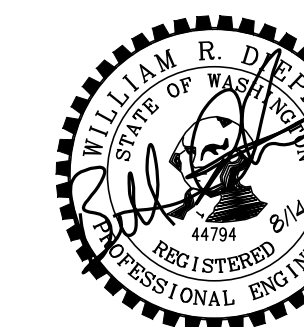
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PROJECT NUMBER: 1854

REVISIONS:

08/14/2017 BID SET

SHEET TITLE:

PANEL SCHEDULES

P. CARLETTI
PROJECT ARCHITECT.

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DATE

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Table for EXISTING MAIN METERING SWITCHBOARD SW. Includes columns for Voltage, Type, Enclosure, Mounting, Bussing, Main, and Electrical Load Calculations (Exist, New, Total, Demand Factor, Demand Load).

Table for MAIN SECTION (S1) and DISTRIBUTION SECTION (S2). Includes columns for Conn Load, Feeder/Branch Circuit, and Description.

Table for DISTRIBUTION SECTION (S3) and PULL SECTION.

Table for EXISTING PANEL A1-R. Includes columns for Voltage, Type, Enclosure, Mounting, Bussing, Main, and Electrical Load Calculations.

Table for MAIN SECTION (S1) and DISTRIBUTION SECTION (S2) for Panel A1-R. Includes columns for Conn Load, Feeder/Branch Circuit, and Description.

Table for DISTRIBUTION SECTION (S3) and PULL SECTION for Panel A1-R.

NOTES:
(1) EXISTING CIRCUIT BREAKER WITH EXISTING CIRCUIT REMOVED.
(2) NEW CIRCUIT & CIRCUIT BREAKER
(3) NEW CIRCUIT CONNECTED TO EXISTING SPARE CIRCUIT BREAKER
(4) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.

Table for EXISTING TRANSFORMER XC1. Includes columns for KVA, Voltage, Type, Enclosure, Mounting, Cooling, Insulation, Temp. Rise, and Electrical Load Calculations.

Table for EXISTING PANEL C1. Includes columns for Voltage, Type, Enclosure, Mounting, Bussing, Main, and Electrical Load Calculations.

Table for MAIN SECTION (S1) and DISTRIBUTION SECTION (S2) for Panel C1. Includes columns for Conn Load, Feeder/Branch Circuit, and Description.

Table for DISTRIBUTION SECTION (S3) and PULL SECTION for Panel C1.

NOTES:
(1) EXISTING CIRCUIT BREAKER WITH EXISTING CIRCUIT REMOVED.
(2) NEW CIRCUIT & CIRCUIT BREAKER
(3) NEW CIRCUIT CONNECTED TO EXISTING SPARE CIRCUIT BREAKER
(4) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.

Table for EXISTING PANEL E4. Includes columns for Voltage, Type, Enclosure, Mounting, Bussing, Main, and Electrical Load Calculations.

Table for MAIN SECTION (S1) and DISTRIBUTION SECTION (S2) for Panel E4. Includes columns for Conn Load, Feeder/Branch Circuit, and Description.

Table for DISTRIBUTION SECTION (S3) and PULL SECTION for Panel E4.

NOTES:
(1) EXISTING CIRCUIT BREAKER WITH EXISTING CIRCUIT REMOVED.
(2) NEW CIRCUIT & CIRCUIT BREAKER
(3) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.

Table for EXISTING TRANSFORMER XE. Includes columns for KVA, Voltage, Type, Enclosure, Mounting, Cooling, Insulation, Temp. Rise, and Electrical Load Calculations.

Table for EXISTING PANEL E2. Includes columns for Voltage, Type, Enclosure, Mounting, Bussing, Main, and Electrical Load Calculations.

Table for MAIN SECTION (S1) and DISTRIBUTION SECTION (S2) for Panel E2. Includes columns for Conn Load, Feeder/Branch Circuit, and Description.

Table for DISTRIBUTION SECTION (S3) and PULL SECTION for Panel E2.

NOTES:
(1) EXISTING CIRCUIT BREAKER WITH EXISTING CIRCUIT REMOVED.
(2) NEW CIRCUIT & CIRCUIT BREAKER
(3) NEW CIRCUIT CONNECTED TO EXISTING SPARE CIRCUIT BREAKER
(4) ALL OTHER CIRCUITS ARE EXISTING TO REMAIN.