PIPING SYMBOLS

— SLOPE (DN TOWARD ARROW DIRECTION) — DIRECTION OF FLOW ---- REDUCER 45° TEE — WALL CLEANOUT + J STRAINER CHECK VALVE — —II WCO WALL CLEANOUT — —O FCO/ FLOOR CLEANOUT/ YARD CLEANOUT ----- COLD DOMESTIC WATER (CW) _____ HOT DOMESTIC WATER (HW) - HOT DOMESTIC WATER RECIRC (HDWR) ____ VENT — — — WASTE BELOW SLAB - INDICATES LIQUID/GAS TRANSPORTATION BY CHWR: CHILLED WATER RETURN CHWS: CHILLED WATER SUPPLY HWR: HEATING WATER RETURN HWS: HEATING WATER SUPPLY - 45° OR 90° OFF BOTTOM . 45° OR 90° OFF TOP BALL VALVE GATE VALVE FLOW CONTROL VALVE HOSE BIBB PRESSUR GAUGE WITH ISOLATION VALVE THERMOMETER **₽** PUMP IN-LINE PUMP COMPRESSED AIR STATION, LOW PRESSURE COMPRESSED AIR STATION HIGH PRESSURE

CONTROL SYMBOLS

THEDMOCTAT

Œ	THERMOSTAT
S	SWITCH
M	MOTOR
Р	PRESSURE SENSOR
DM	MOTORIZED DAMPER
MS	MOTOR STARTER
SD	SMOKE DETECTOR
AQ	AIR QUALITY SENSOR

DIFFERENTIAL PRESSURE SENSOR

MECHANICAL/PIPING GENERAL NOTES

THESE NOTES APPLY TO ALL M, FP & P DRAWINGS UNLESS NOTED OTHERWISE SEE SPECIFICATION DIVISION 15 FOR INSTALLATION AND OTHER REQUIREMENTS FOR MECHANICAL WORK SHOWN ON "M", "FP" AND "P" SERIES DRAWINGS. THE DESIGN SHOWN ON THE DRAWINGS IS BASED ON THE EQUIPMENT MANUFACTURERS LISTED IN THE MECHANICAL EQUIPMENT SCHEDULES. EQUIPMENT PROPOSED BY THE CONTRACTOR THAT IS NOT LISTED IN THE SCHEDULES SHALL BE SUBMITTED TO CITY/BOROUGH OF JUNEAU AS A REQUEST FOR SUBSTITUTION IN ACCORDANCE WITH DIVISION 1. PROVIDE ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH THE FIRE WALL, FIRE BLOCKING AND FIRE STOP PROVISIONS SHOWN ON THE ARCHITECTURAL COORDINATE SUPPLY AIR DIFFUSERS AND RETURN/EXHAUST AIR GRILLE LOCATIONS WITH ARCHITECTURAL DRAWINGS. COORDINATE DUCT ROUTING WITH LIGHT FIXTURE LOCATIONS. MECHANICAL WORK SHOWN IS DIAGRAMMATIC. PROVIDE OFFSETS,
 TRANSITIONS, AND OTHER DUCTWORK, PIPING AND ASSOCIATED CONSTRUCTION. WHERE REQUIRED TO AVOID BUILDING STRUCTURAL ELEMENTS OR THE WORK

DUCTWORK DIMENSIONS SHOWN ARE NET INSIDE DIMENSIONS. ENLARGE DUCT DIMENSIONS AS REQUIRED FOR INTERNALLY LINED DUCTWORK, SEE

PAINT EXTERIOR PIPING, DUCTWORK, FANS, CURBS AND SHEET METAL WITH URETHANE FINISH, COLOR AS SELECTED BY ARCHITECT. PAINT UNFINISHED STEEL, GALVANIZED, ALUMINUM OR SST EXTERIOR SURFACES, MATERIALS OR EQUIPMENT, PROVIDED UNDER DIVISION 15, COLOR AS SELECTED BY ARCHITECT.

7. TEMPERATURE SENSORS SHALL BE LOCATED WHERE SHOWN 48 INCHES ABOVE

PROVIDE BIRDSCREENS FOR ALL LOUVERS AND ALL OUTSIDE AIR INTAKES.

PENETRATE ROOF DECKS AS REQUIRED TO INSTALL MECHANICAL WORK.
PROVIDE BLOCKING AROUND PENETRATIONS AND AS NOTED ON STRUCTURAL DRAWINGS. SEAL ALL PENETRATIONS AIR AND WATER TIGHT

10. PROVIDE ACCESS PANELS FOR ALL MECHANICAL EQUIPMENT OR VALVES ENCLOSED IN PERMANENT CONSTRUCTION OR DUCTWORK.

11 INSTALL DUCTWORK TO MAINTAIN SERVICE CLEARANCES, ACCESS DOOR CLEARANCES AND COIL PULL CLEARANCES AT ALL HVAC EQUIPMENT.

12. COORDINATE FLOOR AND WALL CLEANOUT LOCATIONS WITH OFFICE CASEWORK VENDOR DRAWINGS AND OTHER FURNISHINGS, RELOCATE AS REQUIRED.

13. PROVIDE FINAL LOCATIONS FOR ROUGH-IN AND FINISH OF WASTE, VENT. AND WATER SUPPLY. CONNECTIONS AND LOCATIONS PER CASEWORK VENDOR

14. PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, INDIRECT WASTE CONNECTIONS, AND OPEN HUB DRAINS WITH VENTS AND TRAP PRIMERS. EXCLUDING THE MAINTENANCE AREAS AND FUEL BAY

15. SURVEY AND FIELD VERIFY ALL INVERT ELEVATIONS SHOWN ON PLUMBING DRAWINGS. INVERT ELEVATIONS SHOWN ARE APPROXIMATE, PROVIDE BUILDING WASTE PLUMBING TO PROPERLY INTERCONNECT WITH SITE WASTE PLUMBING.

16. T-PULL BRANCH PIPING NOT ALLOWED. ALL CHANGES IN DIRECTION SHALL BE

17. ALL PENETRATIONS AND SLEEVES THRU FLOORS/ WALLS SHALL BE SEALED

18. ALL CONDENSATE DRAINS SHALL BE ROUTED FULLSIZE TO NEAREST WASTE LINE OR APPROVED EXTERIOR LOCATION.

19. ALL UNDER BUILDING PIPING SHALL BE SLOPED AT 2%, FOR YARD PIPING SLOPES SEE CIVIL DRAWINGS.

20. EXTEND VTR PIPING AS REQUIRED TO MAINTAIN 10' MINIMUM CLEARANCE TO **OUTSIDE AIR INTAKE LOUVERS**





≱ s

TETRA TECH

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CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION. E10-273

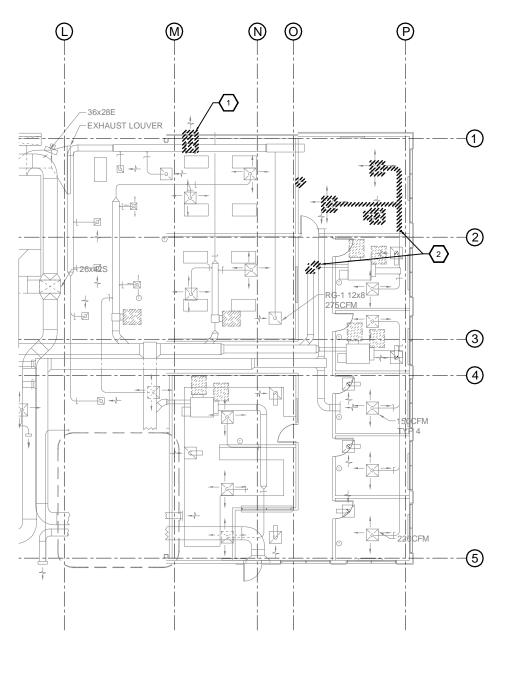
MECHANICAL ABBREVIATIONS & SYMBOLS

SHEET NO. M0.01 TOTAL SHEETS

31 - 72

DESIGNED BY: DS

CHECKED BY: CRJ DATE: MAY 2010

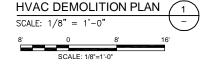


NOTES:

- DRAWINGS SHOW GENERAL INTENT OF THE DEMOLITION WORK.
 DEMOLITION OF EQUIPMENT AND COMPONENTS SHALL INCLUDE ALL SUPPORTS, PADS, HANGERS, INSULATION, CONTRLS, STARTERS, ACCESSORIES AND APPURTENANCES NOT REQUIRED FOR THE INSTALLATION OF THE NEW SYSTEM.
- 2. SEE DWG M1.02 FOR LOCATION OF RELOCATED EQUIPMENT.
- 3. ALL OPENINGS CREATED BY THE ABANDONMENT OR REMOVAL OF EXISTING SYSTEMS SHALL BE PATCHED TO MATCH EXISTING.

KEY NOTES:

- RELOCATE EF-3, LOUVER AND ALL RELATED APPURTENANCES AND PATCH 14E DUCTWORK FOR CONTINUITY. PATCH WALL OPENING TO MATCH EXISTING.
- COMPLETELY REMOVE INDICATED DUCTWORK AND RELATED
 APPURTENANCES AND COORDINATE WITH INSTALLATION OF NEW WORK
 INDICATED IN DWG M1.02.







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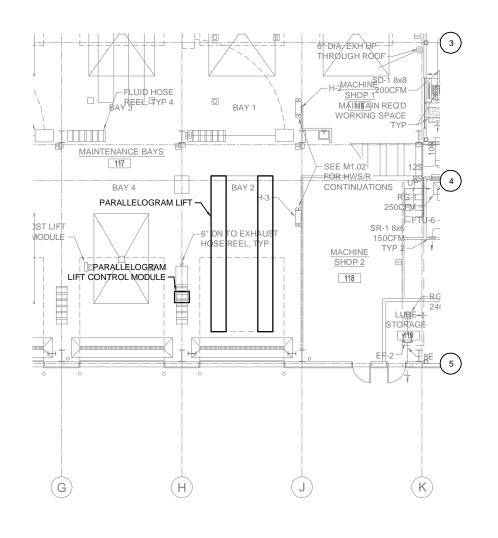
CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

MECHANICAL HVAC DEMOLITION PLAN SHEET NO.
M1.01
TOTAL SHEETS

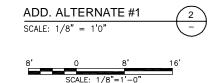
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NOTES:

- RELOCATE EF-3, LOUVER AND RELATED APPURTENANCES. BALANCE EF-3 TO 1325CFM.
- 2. SEE P1.02 FOR RADIANT FLOOR ZONING.
- 3. PROVIDE WALL SPEED CONTROLLER WITH 300CFM IN LOW SPEED POSITION AND 500CFM IN HIGH SPEED POSITION.
- 4. PROVIDE RIGID GALVANIZED DRYER DUCT WITH MAXIMUM NUMBER OF BENDS TO NOT EXCEED TWO 90° ELBOWS. USE TYPE A VENT HOOD WITH NO MESH SCREEN.
- 5. REBALANCE FTU-A2 TO 400CFM
- 6. PER ADDITIVE ALTERNATE #1, INSTALL PARALLELOGRAM VEHICLE LIFT IN ROOM 117, BAY 2 OF THE EXISTING MAINTENANCE BAYS AREA.









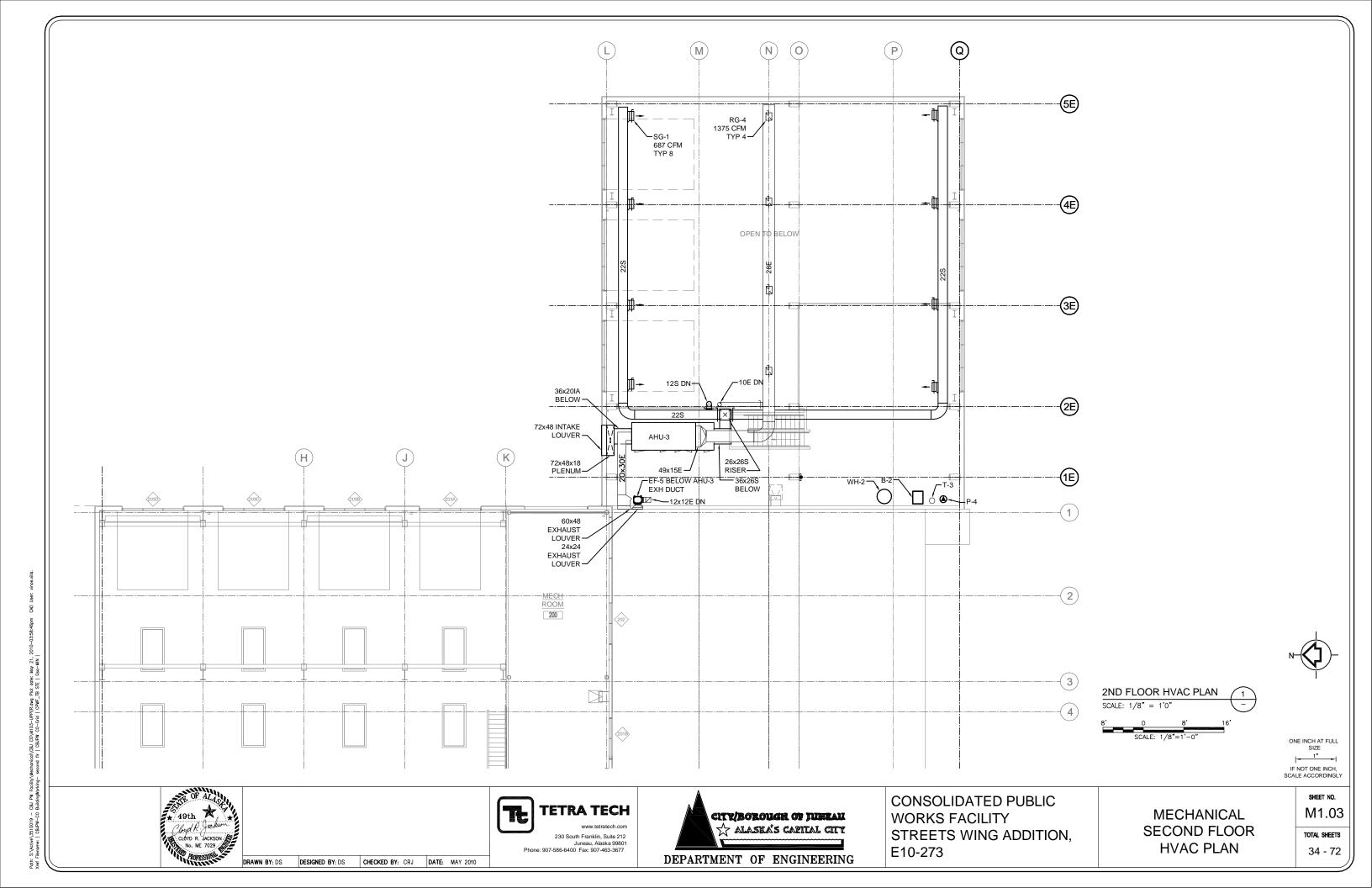
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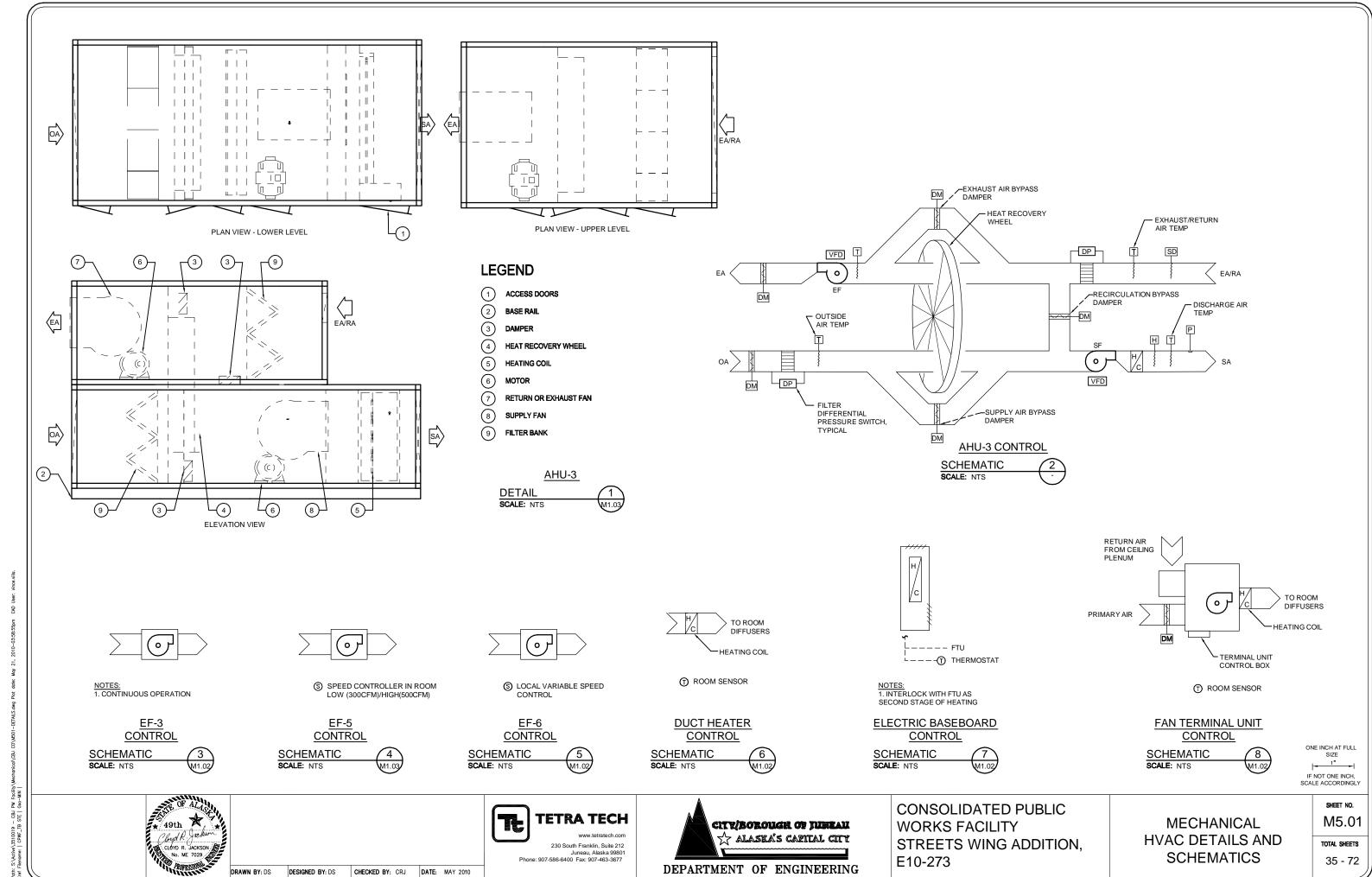


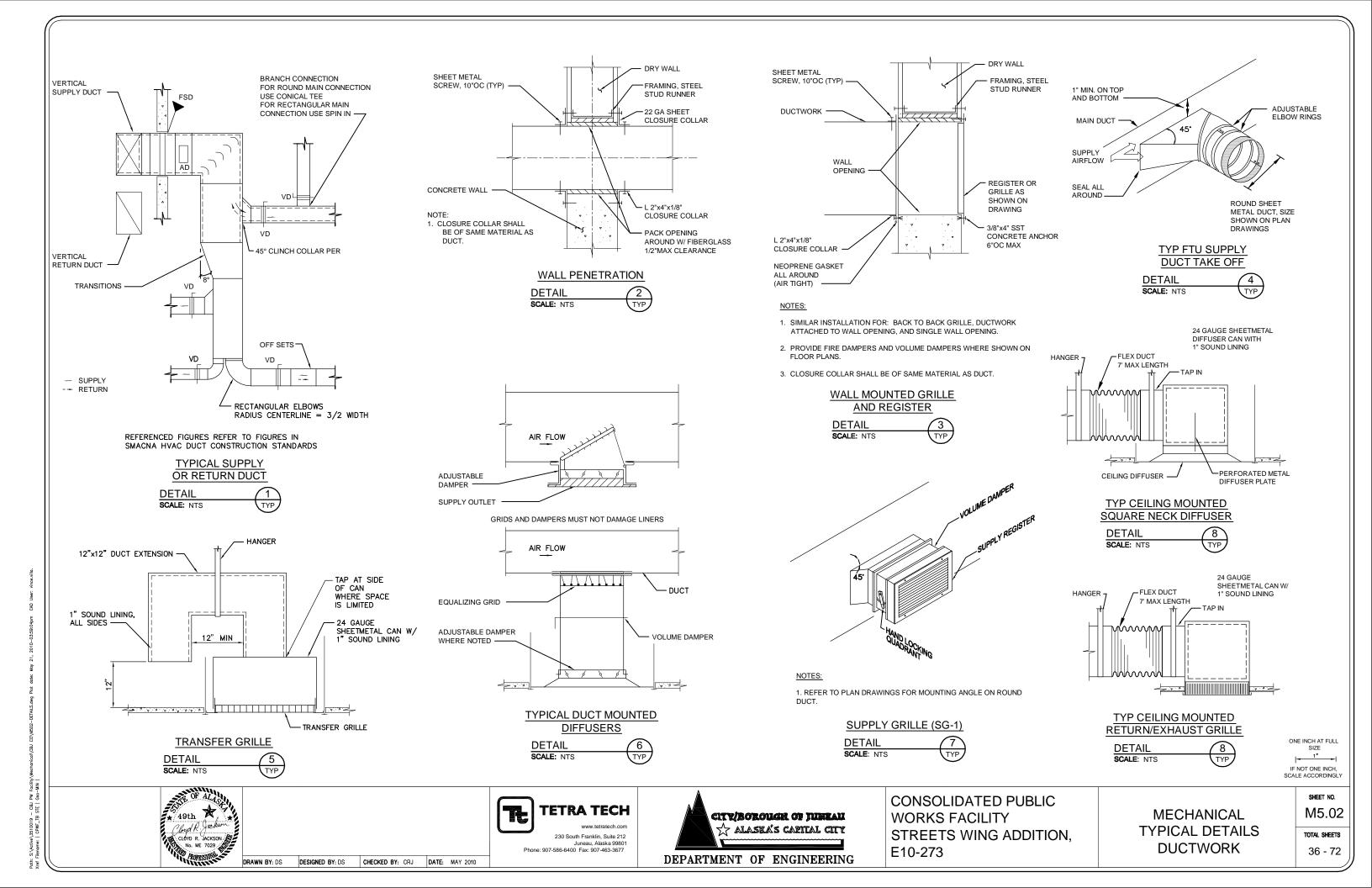


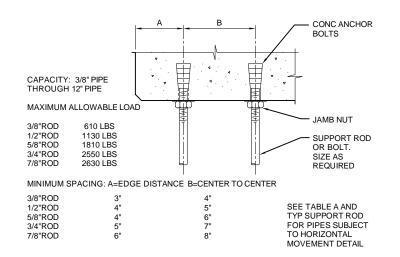
CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

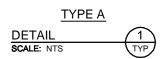
MECHANICAL FIRST FLOOR HVAC PLAN M1.02

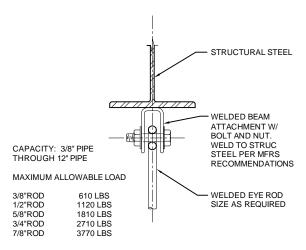




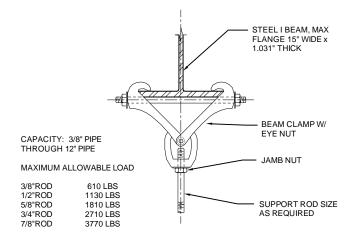




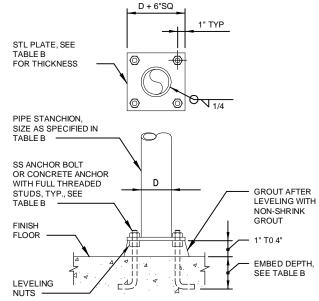












NOTE:

I. SPACING SHALL BE AS REQUIRED, BUT SHALL NOT EXCEED SPANS SHOWN IN TABLE A.

TYPICAL STRU	CTURAL
ATTACHMI	ENT
DETAIL	$\overline{4}$
SCALE: NTS	TYP

			TAB	LE A			
		P.E01011	SUPPORT ROD SIZE	MA		PAN, IN FEET, F RACKS SEE NO	
PIPE SIZ	ZE	DESIGN WEIGHT	BASED ON SINGLE ROD SEE NOTE1	STEEL	COPPER	PLASTIC SEE NOTE 3	CAST IRON SEE NOTE 4
3/8"TO 3	/4"	275 LBS	3/8"	5	5	CONTINUOUS	_
1"		275 LBS	3/8"	7	6	5	_
1-1/4"		300 LBS	3/8"	7	7	5	_
1-1/2"		300 LBS	3/8"	9	8	5	_
2"		325 LBS	3/8"	10	8	6	PRESSURE
2-1/2"		375 LBS	1/2"	10	9	6	PIPE 12 FT
3"		575 LBS	1/2"	10	10	7	SOIL PIPE
4"		600 LBS	5/8"	10	10	7	10 FT.
6"		750 LBS	3/4"	10	10	9	"
8"		950 LBS	7/8"	10	10	9	"

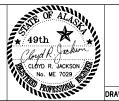
NOTES: (TABLE A)

- 1. ROD SIZE IS BASED ON CARRYING SINGLE PIPE. WHEN MORE THAN ONE PIPE IS TO BE SUPPORTED. RODS SHALL BE SIZED USING DESIGN WEIGHTS TO DETERMINE TOTAL LOAD.
- 2. WHERE MODULARLY SPACED INSERTS ARE REQUIRED SUPPORT PIPES AT INSERT MODULE. NO SPECIAL INSERTS WILL BE ALLOWED FOR INDIVIDUAL PIPE SUPPORTS UNLESS SPECIFICALLY DETAILED OR AUTHORIZED BY THE PROJECT REP
- 3. SPACING BASED ON SCHEDULE 80 PIPE AT 100°F. SCHEDULE 40 PIPE OR HIGHER TEMPERATURE REQUIRE SHORTER SPANS. SEE MANUFACTURER'S RECOMMENDATIONS.
- 4. INSTALL AT LEAST ONE HANGER PER PIPE LENGTH, LOCATE AS NEAR THE JOINT OR FITTING AS POSSIBLE.
- 5. IN ADDITION TO SUPPORTING DUCTS AND PIPES FOR GRAVITY LOADS, DUCTS AND PIPES SHALL BE SUPPORTED TO RESIST VERTICAL, LATERAL AND LONGITUDINAL SEISMIC FORCES. FORCES ARE TO BE DETERMINED ACCORDING TO 2006 INTERNATIONAL BUILDING CODE. SEISMIC BRACE DESIGN SHALL BE ACCORDING TO THE LATEST "SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS" BY SMACNA. THE DESIGN FOR SEISMIC SUPPORTS SHALL BE STAMPED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE STATE OF ALASKA.
- 6. DESIGN WEIGHTS REFER TO THE PIPE SIZE SHOWN SUPPORTED AT THE SPACING LISTED AND SHALL BE USED FOR DESIGN OF ALL SPECIAL HANGER SYSTEMS
- 7. AT LEAST ONE PIPE HANGER OR SUPPORT SHALL BE LOCATED IMMEDIATELY ADJACENT TO THE JOINT OF ANY CONCENTRATED LOAD OR BEND IN THE PIPE SUCH AS VALVES, FITTINGS, ETC., IN ADDITION TO THE MAXIMUM SPANS LISTED ABOVE.
- 8. TYPICAL DETAILS SHOWN ON THIS DRAWING ARE FOR REFERENCE ONLY. REFER TO SPECIFICATION SECTION 15071 FOR SEISMIC DESIGN REQUIREMENTS.

	TABLE B - F	PIPE STAN	CHION	
PIPE SIZE	NOMINAL PIPE STANCHION DIA (SCHEDULE 40)	PLATE THICKNESS	BOLT SIZE	BOLT EMBED
2"	1 1/2"	1/4"	3/8"	5"
2 1/2"	1 1/2"	1/4"	3/8"	5"
3"	2"	3/8"	1/2"	5"
4"	3"	3/8"	1/2"	5"
6"	3"	3/8"	1/2"	5"
8"	4"	3/8"	5/8"	8"
10"	4"	3/8"	5/8"	8"
12"	6"	3/8"	5/8"	8"
14"	6"	1/2"	3/4"	8"
16"	6"	1/2"	3/4"	8"
18"	8"	5/8"	7/8"	8"
20"	8"	5/8"	7/8"	8"
24"	8"	3/4"	1"	8"
30"	10"	3/4"	1"	8"

ONE INCH AT FULL SIZE

IF NOT ONE INCH, SCALE ACCORDINGLY



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CITY/BOROUGH OF JUHEAU

ALASKA'S CARITAL CITY

CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

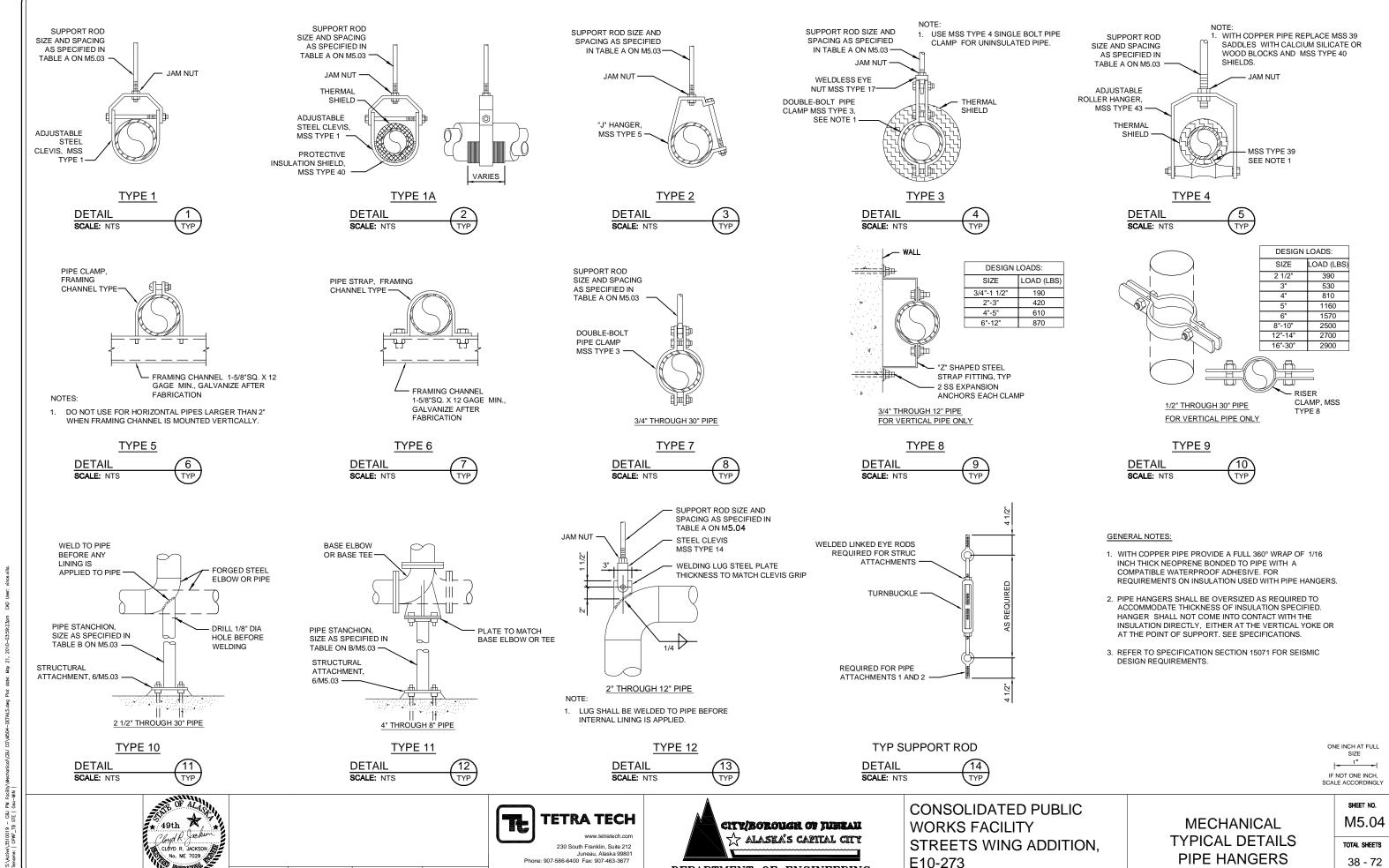
MECHANICAL HVAC DETAILS AND SCHEMATICS M5.03

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CHECKED BY: CRJ DATE: MAY 2010

DEPARTMENT OF ENGINEERING

DEPARTMENT OF ENGINEERING



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DESIGNED BY: DS

CHECKED BY: CRJ DATE: MAY 2010

													AIR	HAND	LING UNIT (AHU) SC	HEDULE												
	SUPPLY FAN - DRAW THRU						RETURN FAN ELECTRIC HEATING COIL					HEAT E	XCHAN	GER															
SYMBOL	LOCATION	SERVICE	WEIGHT (LBS)	AIRFLOW	TOTAL STATIC	EXTERNAL STATIC		ELECT	RICAL	AIRFLOW	TOTAL STATIC	EXTERNAL STATIC		ELEC	TRICAL	AIR TE	MP (°F)	CAPACITY	VOLT-P-HZ	TYPE	MIN. SENSIBLE		МОТ	OR		FILTE	RS		SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL)
				(CFM)	PRESSURE (IN W.C.)	PRESSURE (IN W.C.)	внр	HP	VOLT-P-HZ	(CFM)	PRESSURE (IN W.C.)	PRESSURE (IN W.C.)	ВНР	HP	VOLT-P-HZ	ENT.	LVG.	(KW)	VOLT-P-HZ	TYPE	EFF. (%)	HP	FLA	VOLT-P-HZ	M E R V	SIZE (IN)	PD (IN)	DEPTH (IN)	,
AHU-3	STREET WING	VARIABLE VOLUME	4500	6000	2.7	2.1	4.9	7.5	460-3-60	5550	2.1	1.0	3.8	5	460-3-60	28	70	80	460-3-60	WHEEL	63	0.25	0.4	460-3-60	7 4 8	24x20 16x20	0.08	2	YORK SOLUTIONS AIR HANDLING UNIT

- NOTES:

 1. HEAT RECOVERY PERFORMANCE IS BASED ON COIL EAT 28°F WITH 29% RH ON BOTH SA AND RA.

 2. VFDs SHALL BE PROVIDED BY DDC CONTRACTOR AND INSTALLED IN THE FIELD.

		FAN POWER TERMINAL UNIT SCHEDULE																
SYMBOL SIZE CFM NC LEVELS FAN ELECTRIC ELECTRICAL MFR/MODEL													MER/MODEL	REMARKS				
	STWIBOL	UNIT	INLET	OUTLET	MAX	MIN	RAD	DISCH	CFM	ESP	HP	KW	EAT/LAT	VOLT	PH	HZ	WITK/MODEL	KEWARKS
	FTU-3	С	08	14.1x1.1	600	350	19	13	600	0.20	0.33	5.0	55/95	277	1	60		FTU-3 IS AN OWNER FURNISHED CONTRACTOR INSTALLED ITEM

- NOTES:

 1. ROOM NC LEVEL SHOWN INCLUDES ATTENUATION TRANSFER FUNCTIONS FROM TABLES IN ARI STANDARD 885-89.
- 2. SOUND DATA SHALL BE OBTAINED FROM TESTS CONDUCTED IN ACCORDANCE WITH ARI STANDARD 880-94.

									FAN	SCHEDULE					
SYMBOL	LOCATION	TYPE	AIRFLOW (CFM)	STATIC PRESSURE	DRIVE	FAN RPM	SOUND POWER			MOTOR		CONTROL	MFR/MODEL	FEATURES	WEIGHT (LBS)
			(Of M)	(IN W.C.)		KFIVI	(dBA)	HP	RPM	VOLT-P-HZ	ENCLOSURE				(LDO)
EF-5	STREET WINGS MEZZANINE	INLINE	300/ 500	0.3	DIRECT	1521	54	1/10	1550	115-1-60	TEAO	TWO SPEED SWITCH	GREENHECK SQ-90-D	ADJUSTABLE SPEED FAN	41
EF-6	KITCHEN HOOD FAN	INLINE	600	0.5	DIRECT	-	=	1/6	-	120-1-60	-	VARIABLE SPEED CONTROL	FABER INCA PRO 30	REMOTE SWITCH W/ SPEED CONTROL	-

 $\underline{\text{NOTES:}}$ 1. KITCHEN HOOD SHALL INCLUDE TRIM WITH BAFFLE TYPE FILTERS AND LIGHTS.

				ELEC	CTRIC HEAT	ER SCHE	DULE	
SYMBOL	TYPE	LOCATION	CAPACITY (KW)	LENGTH (IN)	VOLT-P-HZ	AMPS	SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL)	REMARKS
EB-1	BASEBOARD	LUNCH/TRAINING	1.0	48	277-1-60	3.6	MARKEL 3900 HYDRONIC ELECTRIC	REMOTE T'STAT
EB-2	BASEBOARD	LUNCH/TRAINING	1.5	72	277-1-60	5.4	MARKEL 3900 HYDRONIC ELECTRIC	REMOTE T'STAT
HC-1	DUCT HEATER	SIGN SHOP	4	-	277-1-60	8.3	NAILOR DH	SPACE THERMOSTAT

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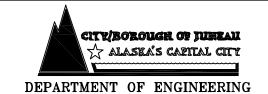
		DIFFUSER/GRILLE/R	EGISTER S	CHEDULE	
SYMBOL	TYPE	SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL)	MAX NC	MAX APD (IN WC)	REMARKS
SD-1	CEILING MOUNT	TITUS MCD	30	0.1	-
SD-2	DUCT MOUNT	TITUS MCD	30	0.1	-
SG-1	DUCT MOUNT	TITUS 272RL	30	0.1	WITH OPPOSED BLADE DAMPER
RG-1	CEILING MOUNT	TITUS 350ZRL	30	0.1	-
RG-2	DUCT MOUNT	TITUS 350ZRL	30	0.1	-
RG-4	DUCT MOUNT	TITUS 350ZRL	30	0.1	-

NOTES:

1. CEILING MOUNT TYPE SHALL BE MOUNTED ACCORDINGLY FOR 24" x 24" CEILING MODULE OR GYPBOARD CEILING PER REFLECTED CEILING PLAN. INCLUDE ANY ADDITIONAL APPURTENANCES AS NEEDED.



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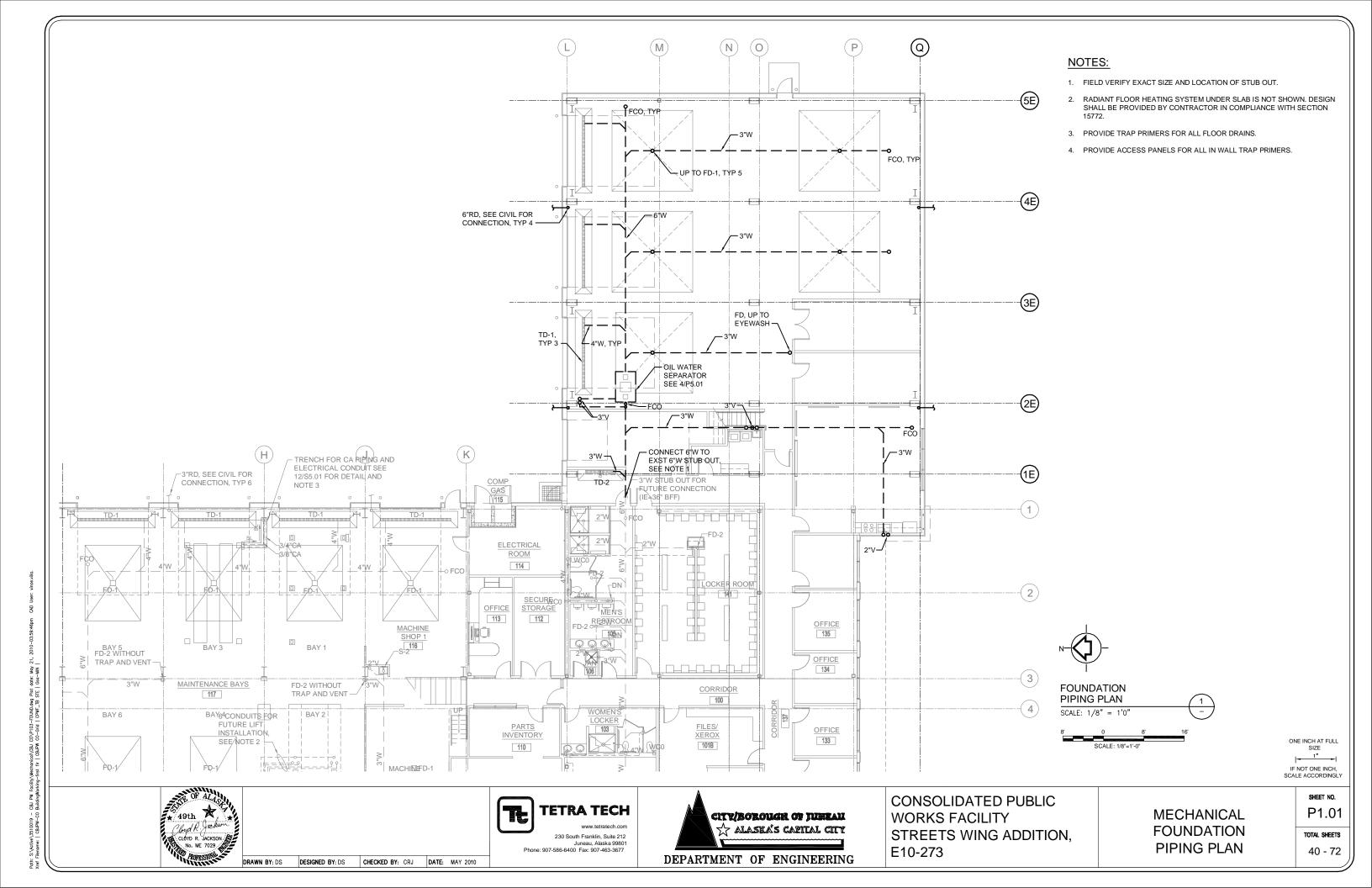


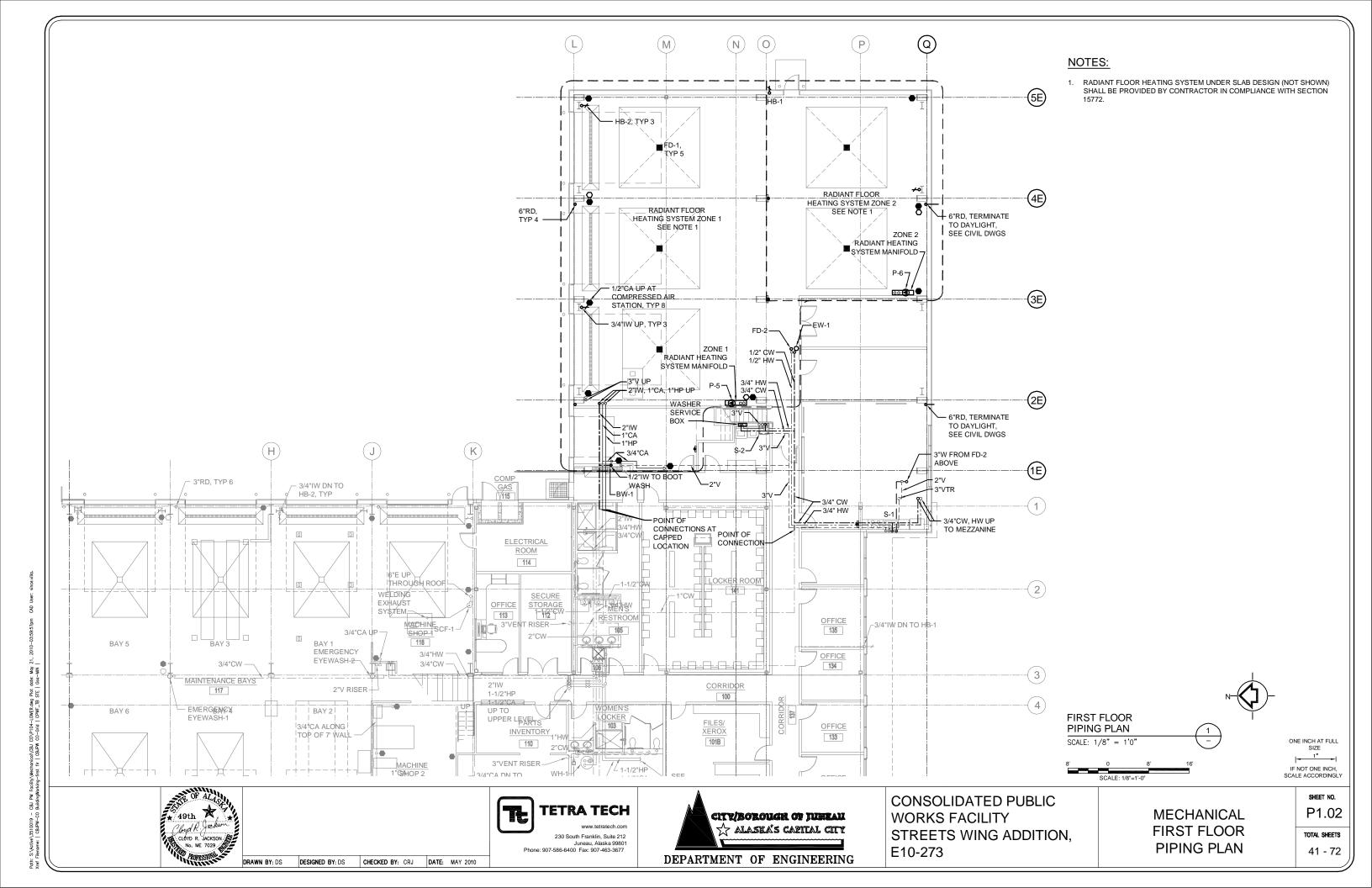
CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

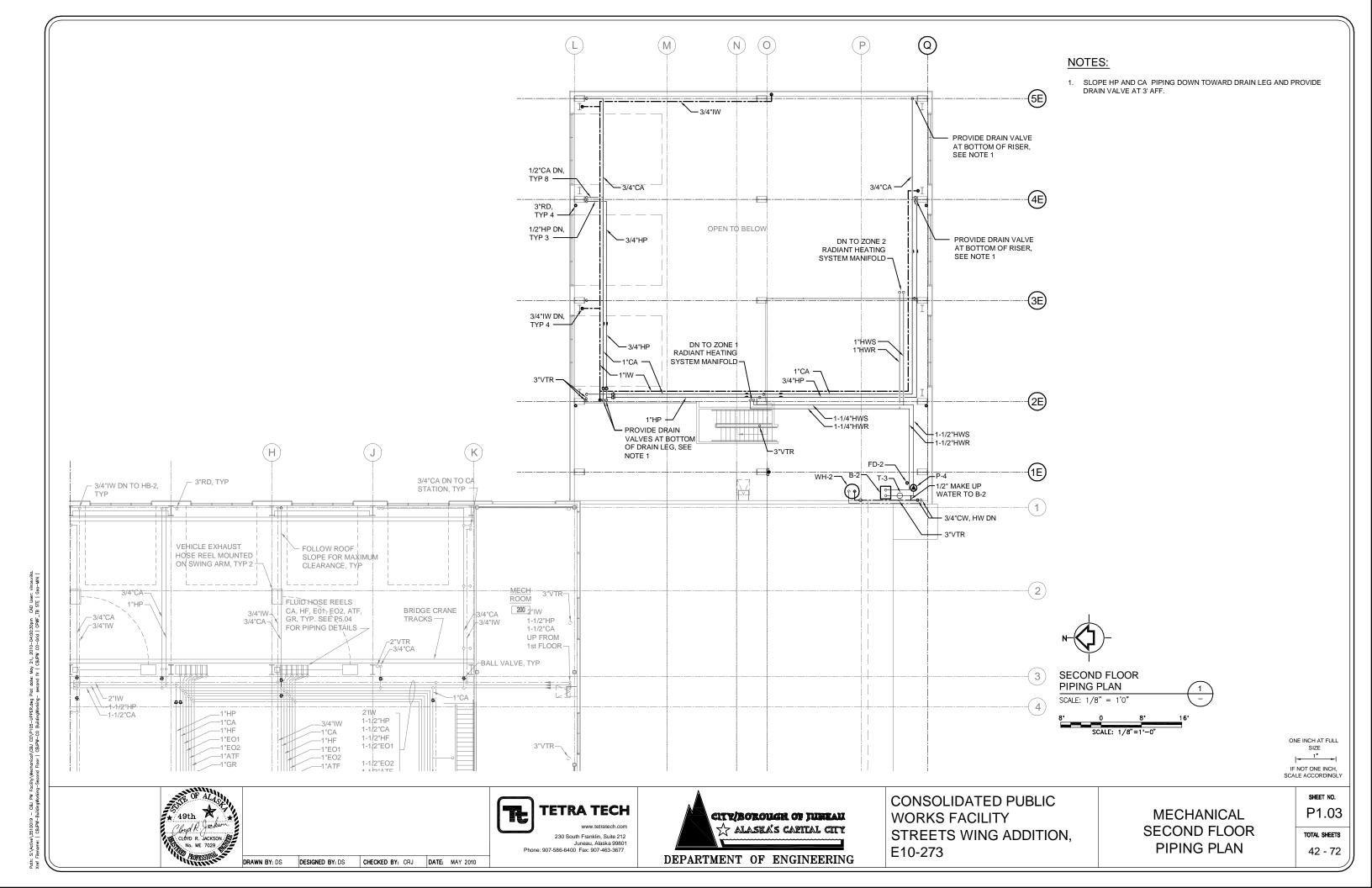
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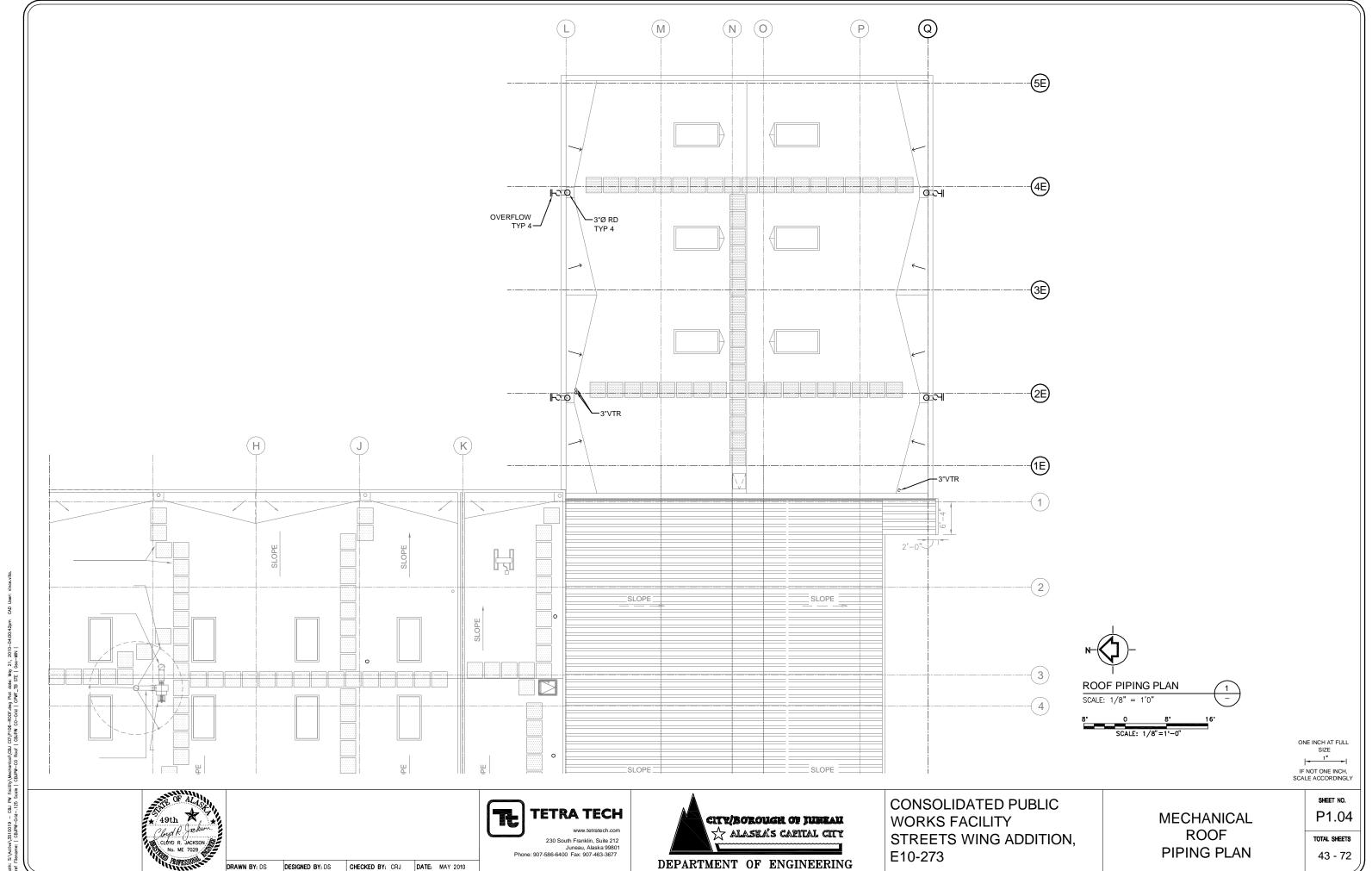
ONE INCH AT FULL SIZE IF NOT ONE INCH, SCALE ACCORDINGLY SHEET NO.

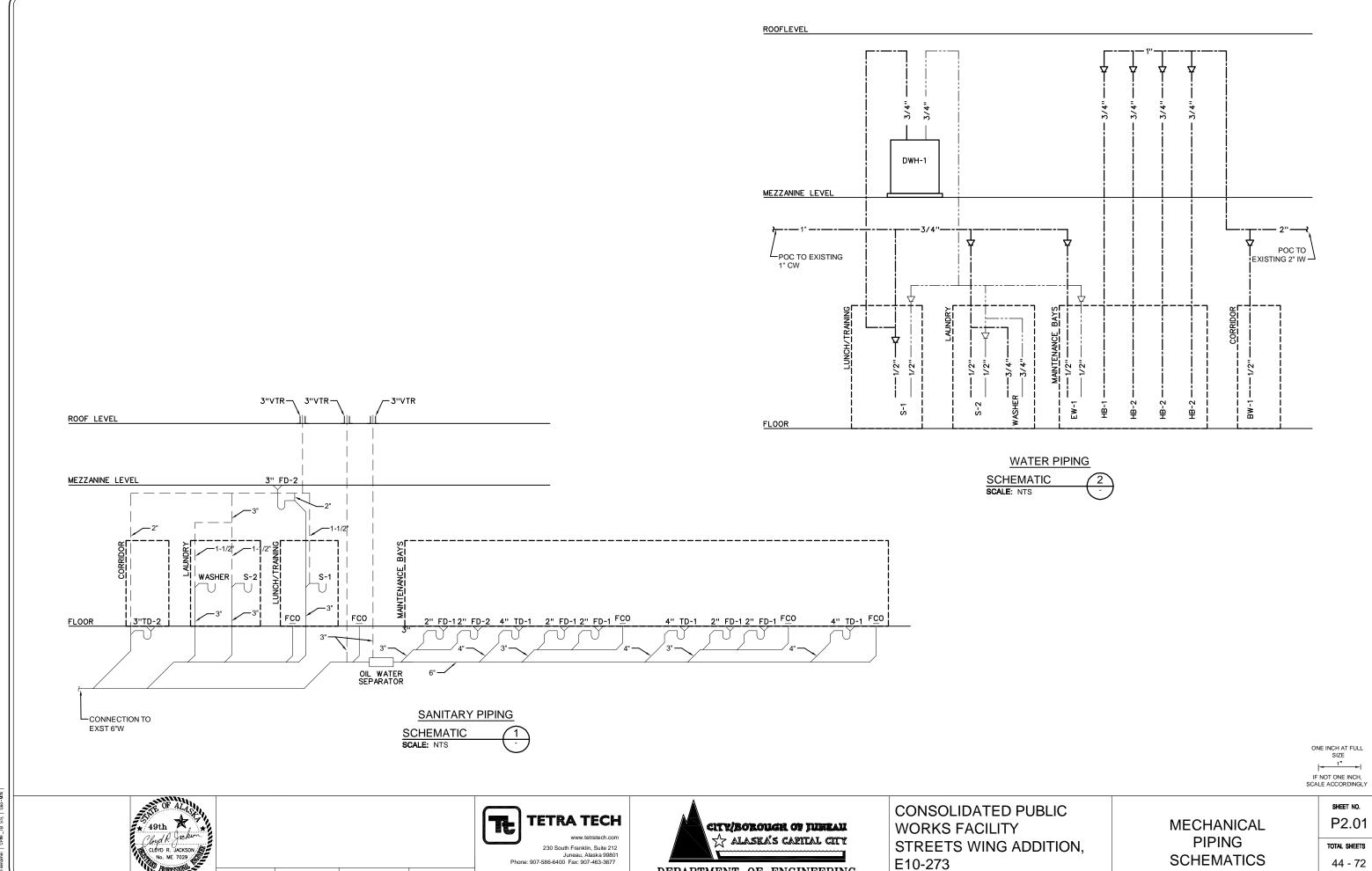
M6.01









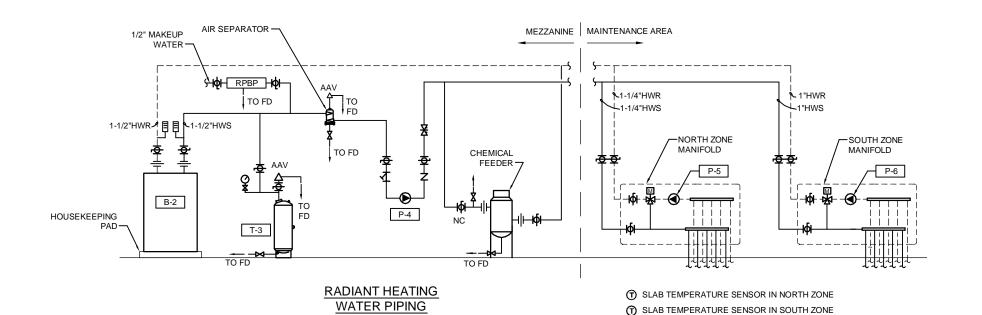


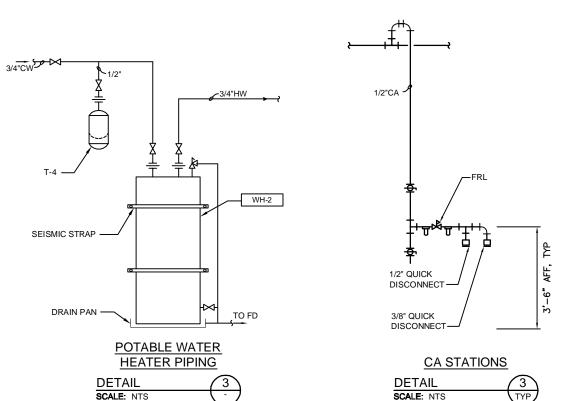
DEPARTMENT OF ENGINEERING

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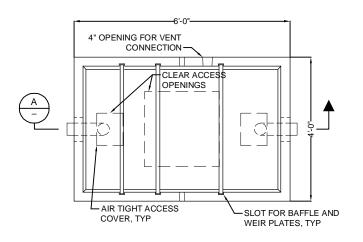
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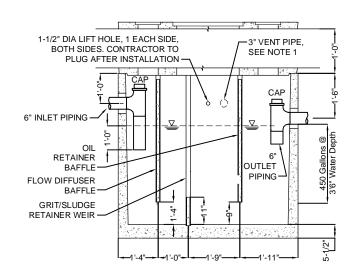
NOTE

- 1. SEE PLAN DWGS FOR VENT PIPING CONNECTION AND ROUTING.
- 2. PROVIDE AIR TIGHT COVERS AND REQUIRED HARDWARE FOR INDOOR INSTALLATION.
- 3. TOP AND ACCESS PANEL SHALL HAVE H20 VECHICLE LOADING CAPABILITY.



OIL WATER SEPARATOR

DETAIL 4
SCALE: NTS



OIL WATER SEPARATOR

SECTION A



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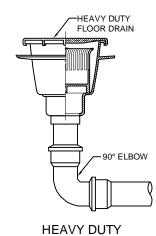
SCHEMATIC SCALE: NTS

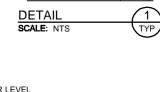




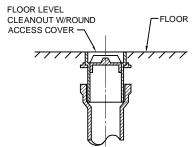
CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

MECHANICAL PIPING DETAILS P5.01

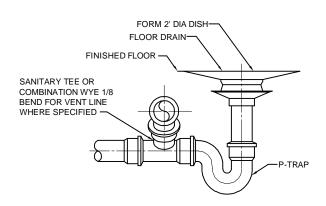


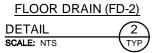


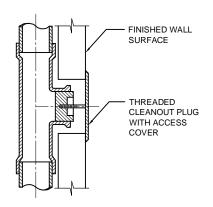
FLOOR DRAIN (FD-1)

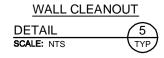


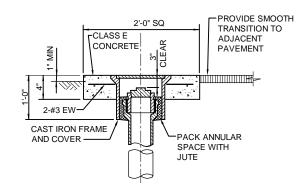












YARD CLEANOUT **DETAIL** SCALE: NTS TYP

> ONE INCH AT FULL SIZE IF NOT ONE INCH, SCALE ACCORDINGLY



DESIGNED BY: DS

CHECKED BY: CRJ DATE: MAY 2010

TETRA TECH 230 South Franklin, Suite 212 Juneau, Alaska 99801 Phone: 907-586-6400 Fax: 907-463-3677



CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

MECHANICAL PIPING DETAILS

SHEET NO. P5.02 TOTAL SHEETS

				PLUMBING FIXTURE	SCHEDUL				
						CONN	ECTION SIZES		
FIXTURE NO.	DESCRIPTION	MODEL	FLUSH VALVE	TRIM	CW	HW	TRAP & DRAIN	VENT	REMARKS
S-1	KITCHEN SINK	KOHLER K-3346-3	-	KOHLER 15171-FL	3/8"	3/8"	1-1/2"	1-1/2"	-
S-2	SERVICE SINK	KOHLER K-6714	-	K-8905	1/2"	1/2"	3"	3"	PROVIDE 3-INCH IRON PIPE TRAP FOR SERVICE SINK
HB-1	HOSE BIBB	ZURN Z1300	-	-	3/4"	-	-	-	NON-FREEZE IN-WALL HYDRANT
HB-2	HOSE BIBB	ZURN 195 SERIES	-	-	3/4"	-	-	-	-
FD-1	FLOOR DRAIN	JOSAM 37840	-	-	-	-	4"	-	16"X16" HEAVY DUTY DRAIN WITH SLOTTED GRATE
FD-2	FLOOR DRAIN	ZURN ZS400B	-	-	-	-	3"	1-1/2"	ROUND WITH SLOTTED OPENINGS
TD-1	TRENCH DRAIN	ZURN Z886	-	-	-	-	4"	1-1/2"	-
TD-2	TRENCH DRAIN	ZURN Z886	-	K-973 SHOWER HEAD	1/2"	-	3"	1-1/2"	BOOT WASH WITH 6' HAND HELD SHOWER HEAD
EW-1	EYE WASH	GUARDIAN G1814	-	-	1/2"	1/2"	-	-	PROVIDE GUARDIAN G3600 THERMOSTATIC MIXING VALVE
BW-1	BOOT WASH	SYMMONS 1-25-FSB	-	-	1/2"	1/2"	-	-	-

	ELECTRIC POTABLE WATER HEATER SCHEDULE													
SYMBOL LOCATION INPUT CAPACIT Y (KW) STORAGE (GAL) ("F) TEMPERATURE RISE ("F) VOLT-P-HZ FLA SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL) SHIPPING WEIGHT (LBS)														
WH-2	STREET WING MEZZANINE	1.5	30	21/90	90	120-1-60	-	BRADFORD WHITE M-2-30R6DS	85					

				ELECTR	IC BOILER S	CHEDULE			
SYMBOL	LOCATION	INPUT CAPACITY	OUTLET WATER TEMP		ELEMENTS		VOLT-P-HZ	SELECTION BASED ON MANUFACTURER/MODEL	SHIPPING WEIGHT
		(KW)	(°F)	QTY	KW	STEPS@KW		(OR APPROVED EQUAL)	(LBS)
B-2	STREET WING MEZZANINE	54	140	3	18	1@18, 1@36	480-3-60	LOCHINVAR BW 1-054C	600

PUMP SCHEDULE										
SYMBOL	LOCATION	TYPE	SERVICE	FLOW (GPM)	TDH (FT H₂O)	MOTOR			SELECTION BASED ON MFR/MODEL	REMARKS
						HP	RPM	VOLT-P-HZ		
P-4	STREET WING MEZZANINE	INLINE	BOILER	24	15	0.33	1750	115-1-60	BELL & GOSSETT 60 1-1/2x5-1/4	-
P-5	ZONE 1 MANIFOLD	INLINE	RADIANT FLOOR	13	33	0.25	1750	115-1-60	GRUNDFOS	-
P-6	ZONE 2 MANIFOLD	INLINE	RADIANT FLOOR	7	35	0.25	1750	115-1-60	GRUNDFOS	-

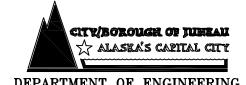
RADIANT FLOOR HEATING SCHEDULE									
SYMBOL	TYPE	ZONE	MIN OUTPUT (BTUH)	NO OF LOOPS	FLOW RATE (GPM)	HEAD LOSS (FT. H20)	SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL)	REMARKS	
-	MANIFOLD	1	107000	6	12.9	33.1	HEATLINK	-	
-	MANIFOLD	2	55000	3	6.6	35.4	HEATLINK	-	

TANK SCHEDULE									
SYMBOL	LOCATION	SERVICE	TYPE	DIAMETER (IN)	LENGTH (IN)	TANK VOLUME (GAL)	WEIGHT (LBS)	SELECTION BASED ON MANUFACTURER/MODEL (OR APPROVED EQUAL)	
T-3	STREET WING MEZZANINE	RADIANT HEATING	EXPANSION TANK	16	34	22	270	BELL AND GOSSETT B-85LA	
T-4	STREET WING MEZZANINE	DOMESTIC WATER HEATING	EXPANSION TANK	10	10-3/8	2	21	BELL AND GOSSETT PTA-5	





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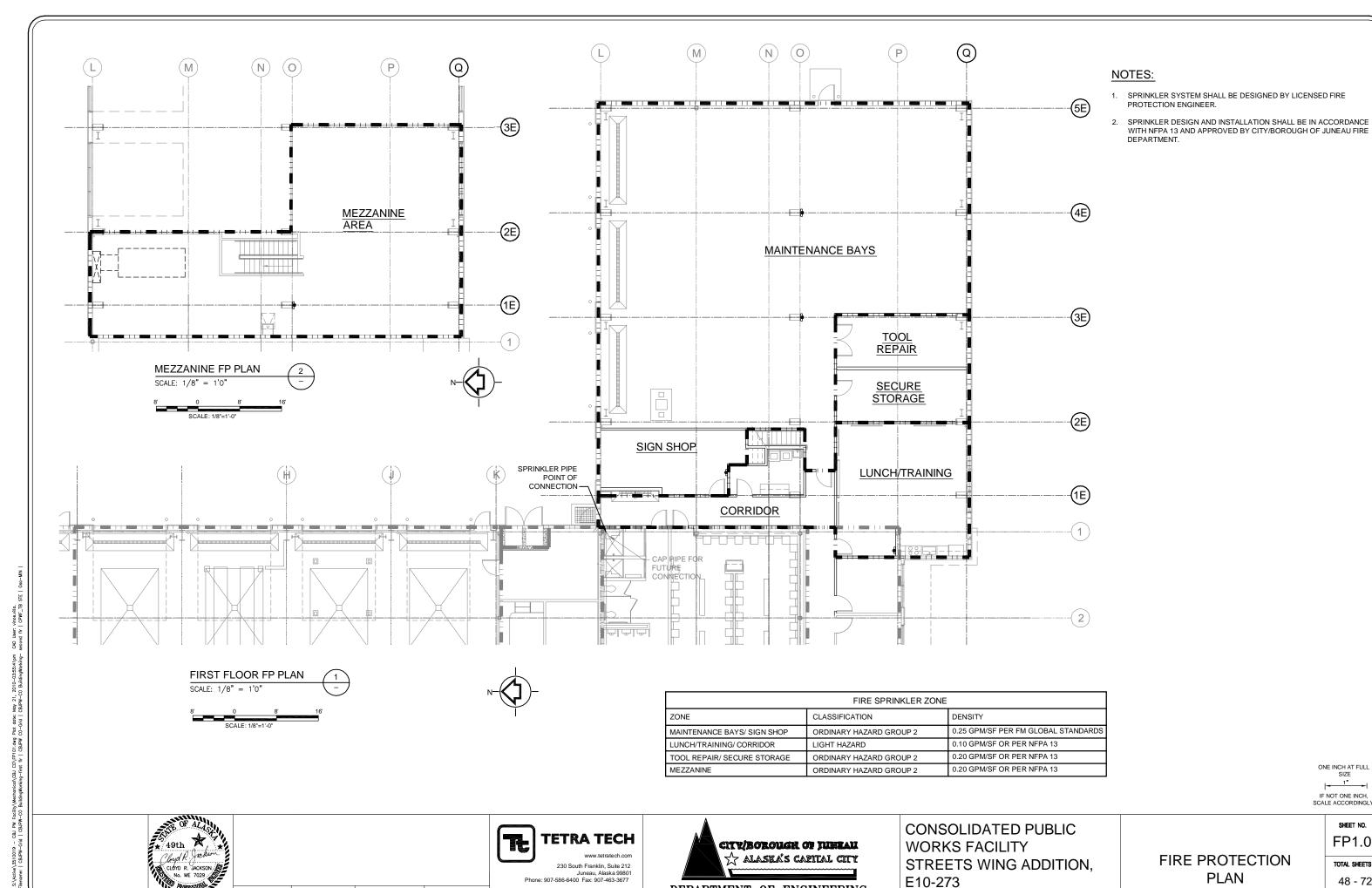
CONSOLIDATED PUBLIC WORKS FACILITY STREETS WING ADDITION, E10-273

MECHANICAL PLUMBING EQUIPMENT SCHEDULES

SHEET NO. P6.01 TOTAL SHEETS 47 - 72

DESIGNED BY: DS CHECKED BY: CRJ DATE: MAY 2010

DEPARTMENT OF ENGINEERING



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DEPARTMENT OF ENGINEERING

IF NOT ONE INCH, SCALE ACCORDINGLY SHEET NO.

ONE INCH AT FULL SIZE

FIRE PROTECTION PLAN

FP1.01 TOTAL SHEETS