COMMON CONTROL Design Change! The dessign includes types of pluming failure and no lossed on the specific description, numericalizers, marks, and marked the control of the NOTE: PHOMES MANUER OF SPECIFED INVOSCIONAT AND TRELITIME ARE NOT EQUAL TO AMERICAN STANDARD.

STATE STEAM, TO CHANGE ARE EQUAL TO AMERICAN STANDARD.

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STREAM STANDARD.

STANDARD STREAM STANDARD. P-1 SHEETE CLOSET-HANDLOFFED
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WIL AM. STD. 0355.012 P—4 ELECTIC WHEE COULTS — WEELCHARE
BLAL MOMENS, 1191/760, 1/5 MP., 73 GPH 47 GB ED.,
304 MEAN THE STREET, DESIRET, DOWNERS OF AFF.
CHARGE FAIRD 3/6" AMERITY STREET, DOWNERS OF AFF.
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11/4" SEED-OUTS BROSS EVENTS OF A WHOTE DESIRET A WHOTE DESIR McGUIRE 165 McGUIRE 8672 ZURN Z-1225 P-5 EXTENDED EMERGENCY SHOWER/ENE AND FACE WIGH RUN 1 $^{\circ}$ A F.O. & TURN DOWN GFR.—1814—WS AND GFR.—1804—WS MIN UNITED THE EXTENSION WALL 8 $^{\circ}$ A.F.O. & TURN DOWN AND GFR.—1205—DC NO WIGHT, JAMESHY, NO THAY, NO WAIT, NO ME, 1-14" CMP

-4 SERMACE SIZE OF THAY, 26" X 26", FLOOR WOUNTED

DAMBELD OUT FIORS, 26" X 26", FLOOR WOUNTED

FRACTI WHIP FILE, MOOK AND USCE DIS, WOCARM

REPORTED, REPORT, STORM,

RESTAL 275 WHORE RESTRAIN FLOW CONTING.

OUT DOWN THAN COUNTED.

3" WIGHT, JAMESHY, 3" THAY, 2" WHO, 1/2" ME, 1/2" CM. AM. STD. 7005.018 P-7 INTERIOR EMERGENCY SHOMER/EYE AND FACE WASH: NO WASTE/SANDAY, NO TRAP, NO VENT, NO HIL 1-1/4" CIL SEE SPEC ON DRAWING The distribution distribution of the control of the The Drawings indicate general arrangement of piping, fittings, and specialties. Install piping connections indicated between plumbing fittures and applicances including explanate specified in other sections. Inspect each Installed fishure for damage. Replace damaged fishures and components. Test fishures to demonstrate proper operation upon completion of installation and after units are solar presentable. Replace mathematic Openio nel ediptit finante cel contente. Repino dempet cel malianching filema, diffigu, and content. Adjet under presente el debitaly instalia, sieder teller conten, and liscola, strater veloni, and filandemien loudey content, to preside proper the end depart. Replace velonier el familia qui d'objeta filande en dejas. Chen filance demo. Replace velonier el familia qui d'objeta filande en dejas. Chen filance cellente de la contenta de la contenta de la contenta de la contenta de entre de maliante. Replace fila del properties qui Milatenance Manusia. Refer la Didden 1 Società Project Classock.

Proporation: Perform the following checks before start—up: Systems tests are complete demaped and defective appellation and accessories have been replaced or repaired, verify there is clear appear to re-ording of specialities.

Balane operating systems, perform these steps: Close drain valves, bydrants, and hose bibbs, open valves to full open position, remove and close strainers, ceretare and fire control devices, writy drainage and went piping are clear of abstructions. Flush with water until close.

Starting Procedures: Foliou manufacture's willow procedures. If no procedures are prescribed by manufacturer. Adjust operation and correct deficiencies discovered during commissionies. Provide protective covering for installed flatures and fillings. Do not allow use of flatures for temporary facilities, except when approved in writing by the Coner.

PRICATES APPRIESS PRIMES

CREATE CONTROL TO the bit is performed under this markes believe to provide an extension provides the extensional gradual gr

CDERNI: Fire-protection system materials, equipment, and design criterio provided under this section shall conform to the registements of NFTA 13, Underwriters Laboratories (U.S.) and the Foctory Makes (FIR-01) horoved Cubic.

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Approved one-piece or split-shipe-type excellations shall be provided for gibing proving fronty, smit, and college in both exposed and conceive owns. Owner-piece conceives owns. Owner-piece conceives owns. Owner-piece conceives own of their or cost from all for elements patch that that has provided where haddonic. Excelutions shall be securely enclared in piece with esticurees or other approved position means.

Label "PRE-ACTION SPRINGER-FIRE DEPARTMENT CONNECTION".

EXECUTION: The installation of the Pre-Action Sprinter System shall be accomplished by an automatic sprinter contractor licensed by the State of Alaska. The pilot official by the Schemerstein's quarter and to deficited in coordinate of the CES. This process and in the CES, This process and in the case of the CES, This process and in the city of which contribute a relation of the case Five protection piping, volves, and appurtanences except nazzies, and picted Siemese connections, shall receive two code of enamel, color No. 11105, red, in accordance with FED-STD-GBS and IEL-STD 101. Month off data name

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Licensed Engineer: extent system design drowings, system hydrautic design calculations, and installation inspection reports. Include seal and signature of registered engineer Econoed in jurisdiction where project is located, certifying compliance with specifications. Comply with regularments of authority having juristiction for automittats, approvals, materials, has breads, installation, impactions, and testing. Installer's Qualifications: Firms qualified to install and after the protection piping, equipment, specialise, and accessories, and repair and service equipment. A qualified firm in one that has had a minimum of 5 previous projects similar in lasts and accept. Test reporte and certificates as described in MFPA 13. Include "Contractor's Motertal & Test Certificate for Absorgerund Piping" and "Contractor's Motertal & Test Certificate for Understand Piping"

Montenance data for each type of fire protection specially specified, for inclusion in "Operating and Maintenance Manual" specified in Division 1 Section Project Classout". 2 copies of NFPA 13A "Recommended Practice for the Inspection, Testing and Mointenance of Sprinkler Systems". Deliver to owner's Representative maintenance personnel. 2 copies of NFPA 25 "Standard for Inspection, Teeling and Mointenance of Water Based Fire Protection Systems". Deliver to Conne's Representative maintenance personnel. Stop drawings shall show the layout and boollon of the compine fire protection system, including, but not necessity limited to, room names and numbers, pipe stars, locations, elevature and stapes or instructed man, values apports, and of equipment; and connections. Show interface and spatial relationship between piping and promitted explained.

As-Bell develop shall be substitled for approved 7 days pater to the acceptance leading plans of the project, fixed ceptas of of one cut maked counting stated to provided still the substitled. As-Bell develope and decument fixed potent configuration floridage developes from ord consumerate to the develope, and fixed installation changes, accessing

COMPRESSED-AR SYSTEMS

AMIT ASSISTANCE Section Component Standards 1979. 73, "National Disorder Code," Profile Selling Section Codes, Solid, or other marking on explanant and Standard Code, "Profile Selling Section Code, Selling Section Codes, Selling Section Codes, Selling Selling Section Codes, Selling Sel

AR COMPRESSORS, GENERAL: Simplex units, with capacities, features, and electrical characteristics indicated.

Air Dyers, Rathfareded-Type: Capacities and with characteristics indicated. Equip with hint studies; water reporters, estimate expension votes, economists, relay compresses, liquid apparator, condenses, filter/dyers, pre-coolar/re-insider, refrigerent liquid recolver and instrument pose with deeplots and states deletion.

ACCESSORES: Concret include accessories having working pressure rating not less than system pressure at location where used, and compatible with equipment and piping Receivers: ASIE-elemped; cylindricol, horizontal installation as indicated; with sofety valves in sizes, working pressures, and temperatures indicated, and with drain connection. Pressure Rating: Not less than maximum discharge pressure.

Pressure Settings: Higher than discharge pressure and same or lower than receiver pressure rolling. Pressure Regulators: Stronze body, direct-acting, spring-loaded, manual pressure-estling adjustment, and raised for 250-psig inlet pressure except where otherwise indicated.

Filters: Two-stage, mechanical-separation type, cir-line filters in sizes and ratings indicated. Eggip with deflector plates; resin-ingregated-filters type filters with edge filtration, 40 micros (0.0015 inch) thick; and druin case. Codescing Filters: Capacities and types indicated. Each with activated carbon capable of removing ligid and particles, with cotor-charge day to indicate when carbon is solurated and worning light to indicate when soluted maximum pressure drop has been accorded.

Automatic Drain Valves: Corresion—resistant metal body and internal parts, rated for 200—paig minimum verting pressure, capable of automatic discharge of collected confessed.

Hose, Clampa, and Couplings: Provide compatible hose, hose clamps, and hose couplings, subsite for compressed-of service, of minimal diameter, and relate for 300-pair minimum sortifing pressure accept where otherwise indicated. Quick Connect/Discornect Hose Couplings: Straight through, bross body, with stablesse-steal or sixtus-jointed steal operating ports. Solect scotast and with O-ring or speaket seed and eithout volum. Select social and plug ands with servoted outlies for lease. SEE AND SPE OST.

Hose Coupling: Two-place, threaded, brase or stainless steel, O-ring or gashet seed, series coupling, with serroted ends, 300-psig minimum screling pressure.

Hose: Reinforced, single— or double-brold, recovered hose, for compressed-air service. Hose Clamps: Stainless steel, clamps or bands.

BREXHMIC AIR PURPER: Concret. Purifier shall meet CGM Standards for grade "D" breathing dir sith laist carbon monoide concentrations of up to 400 ppm of purifier laist. Unit shall be a finer mentale postaged unit, completely pre-piped and pre-afred. Capacity on Microsoft. Features: Include regenerative dryer, visual moleture indicator, catalyst converter to convert CO into CO2, and all necessary ages.

Alarms: provide CO monitor and audio atoms; for pressure, high pressure, high temperature, power failure, and high humbility atoms.

EXAMPLED SISTALUTION: Install of compressors, intercolors, of recolor tanks, and dyners on control bases. Set and consect units occurring to manufacturers within instancious, intelled soft patiests, but, and finity control in temperature of the section of the s

Concrete Boses: 4 Inches high, except where indicated otherwise. Install occessories and epoclaties as indicated. Set and connect units according to manufacturers' printed instructions. Install units plumb, level, and firmly exchange in locations indicated. Midnish manufacturers' recommended clearances. Orient so construits nearlies are occessible.

PPRIC APPLICATIONS: Conerol: Florages, unitons, transition and special fittings, and valves with pressure ratings some or higher than system pressure rating may be used in applications belotus, except where specified otherwise. Low-Pressure Systems: Use the following pipe and fittings: Copper tube, copper tube fittings, bronzo tube fitanges, and soldered joints.

PPPMG RSTALLATION, GENERAL: lestell dir and drain piping with 1/8-inch-per-feet alops downsard in direction of dir flow. Install eccentric reducers where pipe is reduced in size in the direction of flow, with bottoms of both pipes and reducer flush.

Connect branch oir piping to make from top of main. Provide drain log and drain trap at and of each main, branch, and low point in piping system.

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COMECTION: Inside this case to explain and consection to after arriving and another control of principles of consection the other and another control of principles of the control of the contro

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Starting Procedures: Follow manufacturer's written procedures. Surray Processor: Years Institutories of a factory-authorised survice representative to demonstrate captiment, stretup and shattown procedures, presentine mechanisms and earshing processors, and tracked survicely procedures. These operating and materiance information with course and operature of the facility. Provide 7 days within motion is desirance of demonstrated.

ALASKA AEROSPACE DEVELOPMENT CORPORATION PROPRIETARY INFORMATION

RA CHE







DATE
3-21-67
DEBIORED BY
F. FAMILE
DRAWN BY
E. MEGEL
GRECKED BY
L. HOUSE
GAD GODE
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VPT-VP-8
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