

| PLUMBING FIXTURE SCHEDULE | | | | | | | |
|---------------------------|--|--------------------|--------------------|--------|-----------|-----------|--|
| SYMBOL | FIXTURE | ROUGH-IN SIZE | | | | | DESCRIPTION / REMARKS |
| | | S | TRAP | V | CW | HW | |
| WC-1 | WATER CLOSET 15" HIGH ADULT WALL HUNG | 4" | INTEGRAL | 2" | 1-1/2" | - | KOHLER "KINGSTON" K-4325, 1.28 GPF, (HET) WALL HUNG VITREOUS CHINA, ELONGATED BOWL, COMPLETE WITH SLOAN "ROYAL" 111-1.28 GPF FLUSH VALVE, BEMIS 1955C OPEN FRONT SEAT LESS COVER AND J.R. SMITH 0210R WATER CLOSET CARRIER. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) |
| WC-2 | WATER CLOSET 17" HIGH ADA WALL HUNG | 4" | INTEGRAL | 2" | 1-1/2" | - | KOHLER "KINGSTON" K-4325, 1.28 GPF, (HET) WALL HUNG VITREOUS CHINA, ELONGATED BOWL, COMPLETE WITH SLOAN "ROYAL" 111-1.28 GPF FLUSH VALVE, BEMIS 1955C OPEN FRONT SEAT LESS COVER AND J.R. SMITH 0210R WATER CLOSET CARRIER. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) |
| UR-1 | URINAL 24" HIGH ADULT (TOILET RM) | 2" | INTEGRAL | 1-1/2" | 3/4" | - | KOHLER "BARDON" 1/8TH GPF K-4904-ET, 0.125 GPF, (HET), WALL HUNG, VITREOUS CHINA, 14" EXTENDED RIM, COMPLETE WITH SLOAN "ROYAL" 186-0.13 GPF FLUSH VALVE AND J.R. SMITH 0637 URINAL SUPPORT. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) |
| UR-2 | URINAL 17" HIGH ADA (TOILET RM) | 2" | INTEGRAL | 1-1/2" | 3/4" | - | KOHLER "BARDON" 1/8TH GPF K-4904-ET, 0.125 GPF, (HET), WALL HUNG, VITREOUS CHINA, 14" EXTENDED RIM, COMPLETE WITH SLOAN "ROYAL" 186-0.13 GPF FLUSH VALVE AND J.R. SMITH 0637 URINAL SUPPORT. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) SET TOP OF RIM AT +17" A.F.F. |
| L-1 | LAVATORY 34" HIGH ADA (TOILET RM) | 2" | 1-1/4" x 1-1/2" | 1-1/2" | 1/2" | 1/2" | BRADLEY "TERREON LAV DECK" LD-3010-2 TERREON LAVATORY DECK WITH (2) INTEGRAL BOWLS, CENTER SHANK FAUCET DRILLING, SIDE APRONS, FRONT APRON, BACK SPLASH AND SIDE SPLASHES PROVIDE (3) LD-TRAP STAINLESS STEEL TRAP COVERS AND (2) D-ASSY DRAIN, STRAINER TAILPIECE. (2) DELTA 601T050 DECK MOUNTED, CHROME PLATED, BATTERY OPERATED, ELECTRONIC LAVATORY FAUCET, WITH PROXIMITY SENSING TECHNOLOGY. (2) DELTA R2970-MIX THERMOSTATIC MIXING VALVE. PROVIDE T & S STOPS AND SUPPLIES. CHROME PLATED 17 GA. L.A. PATTERN CAST BRASS P-TRAP. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) SET TOP OF LAV AT +34" A.F.F. |
| L-2 | LAVATORY 34" HIGH ADA (TOILET RM) | 2" | 1-1/4" x 1-1/2" | 1-1/2" | 1/2" | 1/2" | BRADLEY "TERREON LAV DECK" LD-3010-3 TERREON LAVATORY DECK WITH (3) INTEGRAL BOWLS, CENTER SHANK FAUCET DRILLING, SIDE APRONS, FRONT APRON, BACK SPLASH AND SIDE SPLASHES PROVIDE (3) LD-TRAP STAINLESS STEEL TRAP COVERS AND (3) D-ASSY DRAIN, STRAINER TAILPIECE. (3) DELTA 601T050 DECK MOUNTED, CHROME PLATED, BATTERY OPERATED, ELECTRONIC LAVATORY FAUCET, WITH PROXIMITY SENSING TECHNOLOGY. (2) DELTA R2970-MIX THERMOSTATIC MIXING VALVE. PROVIDE T & S STOPS AND SUPPLIES. CHROME PLATED 17 GA. L.A. PATTERN CAST BRASS P-TRAP. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) SET TOP OF LAV AT +34" A.F.F. |
| KS-1 | KITCHEN SINK (BREAK RM) | 2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | JUST DL-ADA-2233-A-GR, 22"x33"x8" DEEP, DOUBLE COMP., 18 GA STAINLESS STEEL SINK WITH (3) FAUCET HOLES ON 4" CENTERS, JUST J-ADA-35 STAINLESS STEEL CUP STRAINER WITH OFFSET TAILPIECE. DELTA 476 "WATERFALL-PULL OUT" SINGLE HANDLE, WIDE SPREAD, DECK MOUNTED, PROVIDE COMPLETE WITH SOAP DISPENSER AND LOOP HANDLE. PROVIDE T & S STOPS AND SUPPLIES. CHROME PLATED 17 GA. L.A. PATTERN CAST BRASS P-TRAP. P-TRAP AND WATER SUPPLIES SHALL BE COVERED FOR ACCESSIBLE SCALD PROTECTION. (INDICATED MANUFACTURER OR APPROVED EQUAL FOR ALL COMPONENTS.) |
| GD-1 | GARBAGE DISPOSER (BREAK RM) | 2" | 1-1/2" | - | - | - | IN-SINK-ERATOR BADGER 5XP CONTINUOUS FEED WITH WALL SWITCH. 3/4" H.P. 120V, 1PH, 60HZ. |
| SS-1 | SERVICE SINK (JANITORS RM) | 3" | 3" | 2" | 3/4" | 3/4" | KOHLER "WHITBY" K-6710, CAST IRON WITH ACID RESISTANT ENAMEL FINISH, FLOOR MTD, KOHLER K-8940 WIRE RIM GUARD, KOHLER K-9146 SERVICE SINK STRAINER, DELTA 28C8073 TWO HANDLE 8" WALL MOUNTER SERVICE SINK FAUCET, ROUGH CHROME PLATED, SPOUT END VACUUM BREAKER WITH GARDEN HOSE END, 48" HOSE STAINLESS STEEL HANGER. (INDICATED MANUFACTURERS OR APPROVED EQUAL FOR ALL COMPONENTS.) |
| EW-1 | ELECTRIC WATER COOLER 27" KNEE CLR ADA | 2" | 1-1/4" x 1-1/2" | 1-1/2" | 1/2" | - | HAWS HMJACP8LSS "H4LO" PRESSURE DRINKING WATER COOLER 8 GPH, FRONT AND SIDE MOUNTED. PUSH PADS AND STAINLESS STEEL FINISH OR APPROVED EQUAL. 1/5 HP, 120V, 1PH, 60HZ. |
| HB-1 | HOSE BIBB EXTERIOR WALL | - | - | - | 3/4" | - | WALL MOUNTED CAST BRASS FREEZE PROOF HOSE BIBB. MANUFACTURED BY WOODFORD OR APPROVED EQUAL. |
| HB-2 | HOSE BIBB ROOF | - | - | - | 3/4" | - | ROOF MOUNTED CAST BRASS FREEZE PROOF HOSE BIBB, WITH DUAL CHECK BACKFLOW PREVENTER, ROOF MOUNTING ASSEMBLY WITH UNDERDECK FLANGE, NO DRAIN REQUIRED. HOSE BIBB MODEL NO. SRH-M5 MANUFACTURED BY WOODFORD OR APPROVED EQUAL. |
| FD-1 | FLOOR DRAIN | 3" | 3" | 2" | - | - | COATED CAST IRON BODY WITH DOUBLE DRAINAGE FLANGE, BOTTOM OUTLET, ADJUSTABLE SATIN FINISH BRONZE STAIN, MANUFACTURED BY JOSAM OR APPROVED EQUAL. |
| FS-1 | FLOOR SINK | 3" | 3" | 2" | - | - | DUCO CAST IRON BODY WITH ACID RESISTANT INTERIOR COATING, PROVIDE 1/2 GRATE COVER. MANUFACTURED BY JOSAM OR APPROVED EQUAL. |
| RD-1 | ROOF DRAIN | SEE PLANS FOR SIZE | | | | | DUCO COATED CAST IRON ROOF DRAIN WITH LARGE SUMP AND POLYPROPYLENE LOCKING DOME. PROVIDE UNDERDECK CLAMP. ROOF DRAIN MANUFACTURED BY JOSAM OR APPROVED EQUAL. PROVIDE WITH DOWNSPOUT FILTER ASSEMBLY CORROSION RESISTANT STAINLESS STEEL, FLOWGUARD FGDS4 OR APPROVED EQUAL. |
| OD-1 | OVERFLOW DRAIN | SEE PLANS FOR SIZE | | | | | DUCO CAST IRON OVERFLOW DRAIN WITH INTERNAL WATER GUARD AND LARGE POLYPROPYLENE LOCKING DOME. ROOF OVERFLOW DRAIN MANUFACTURED BY JOSAM OR APPROVED EQUAL. PROVIDE WITH DOWNSPOUT FILTER ASSEMBLY CORROSION RESISTANT STAINLESS STEEL, FLOWGUARD FGDS4 OR APPROVED EQUAL. |
| WH-1 | DOMESTIC HOT WATER HEATER | - | - | - | 3/4" | 3/4" | ENERGY STAR GAS FIRED TANKLESS WATER HEATER, HEAVY DUTY RATED AT 7.4 & GPM, 199,000 BTU INPUT, PROVIDE P & TPRV. PROVIDE 4" FLUE THRU ROOF VENT. MANUFACTURED BY RHEEM OR APPROVED EQUAL. PROVIDE WITH MANIFOLD CONTROLLER, 120V/60HZ, 3AMP. |
| WH-2 | DOMESTIC HOT WATER HEATER | - | - | - | 3/4" | 3/4" | ENERGY STAR GAS FIRED TANKLESS WATER HEATER, HEAVY DUTY RATED AT 7.4 & GPM, 199,000 BTU INPUT, PROVIDE P & TPRV. PROVIDE 4" FLUE THRU ROOF VENT. MANUFACTURED BY RHEEM OR APPROVED EQUAL. |
| ET-1 | EXPANSION TANK | - | - | - | 3/4" | - | THERMALLY FUSED EPOXY LINER WITH RUGGED FLEXIBLE BUTYL DIAPHRAGM FIELD ADJUSTABLE PRE-CHARGED TANK MANUFACTURED BY WATTS OR APPROVED EQUAL. |
| CP-1 | CIRCULATING PUMP | - | - | - | - | 3/4" | INLINE CIRCULATORS RATED AT 10GPM AT 25FT HD. 1/8HP, 120V, 1PH, 60HZ QUITE OPERATION BRONZE BODY. MANUFACTURED BY ARMSTRONG PUMP INC OR APPROVED EQUAL. |
| WHA-1 | WATER HAMMER ARRESTOR (TOILET ROOM) | - | - | - | 3/4" | - | PISTON TYPE WATER HAMMER ARRESTOR, THICK WALLED ONE PIECE SEAMLESS COPPER BODY, SIZED PER PD-WH-201. |
| TP-1 | TRAP PRIMER | - | - | - | 3/4" | - | TRAP PRIMER VALVE WITH TRAP PRIMER DISTRIBUTION UNIT, MACHINED CORROSION RESISTANT BRASS, MANUFACTURED BY PRECISION PLUMBING PRODUCTOR OR APPROVED EQUAL. |
| BFP-1 | REDUCED PRESS. BACKFLOW PREVENTER | - | - | - | - | - | REDUCED PRESSURE BACK FLOW PREVENTER MANUFACTURED BY WATTS OR APPROVED EQUAL. |
| SHR-1 | SHOWER TRIM | - | - | - | 1/2" | 1/2" | PRESSURE BALANCED VALVES WITH SHOWER HEAD EQUAL FLOW IC-CS HIGH POLISHED CHROME FINISH, MANUFACTURED BY BRADLEY OR APPROVED EQUAL. |
| SHR-2 | SHOWER TRIM (HANDICAP) | - | - | - | 1/2" | 1/2" | SAME ABOVE EXCEPT WITH RETRACTABLE HAND SHOWER WITH MOUNTING BAR. MANUFACTURED BY BRADLEY OR APPROVED EQUAL. |
| LHB-1 | LAUNDRY HOSE BOX | 3" | 3" | 2" | 3/4" | 3/4" | RECESSED WASHING MACHINE VALVE WITH SWEAT CONNECTION VALVE. PROVIDE WITH 2" CENTER DRAIN ABS PIPE MANUFACTURED BY GUYGRAX OR APPROVED EQUAL. |
| EES-1 | EMERGENCY EYEWASH SHOWER | - | - | - | - | - | COMBINATION SHOWER EYEFACE WASH, SHALL INCLUDE S.S. 11" ROUND BOWL, AN ANTIMICROBIAL TREATED EYEFACE WASH HEAD. 10-5/8" ABS PLASTIC SHOWER HEAD WITH 20 GPM FLOW CONTROL. MANUFACTURER BY HAWS OR APPROVED EQUAL. |
| S-1 | SINK | 2" | 2" | 1-1/2" | 1/2" | 1/2" | STAINLESS STEEL, 18 GAUGE, SELF-RIMMING SINK 17-1/2"x19"x7-1/2" DEEP WITH LEDGE MOUNTED FAUCET WITH GOOSENECK SPOUT AND 4" WRIST BLADE HANDLES. PROVIDE WITH CRUMB CUP STRAINER. SINK AND FAUCET MANUFACTURED BY JUST OR APPROVED. |
| S-2 | SINK (SHOP/LAB) | 2" | 2" | 1-1/2" | 1/2" | 1/2" | STAINLESS STEEL, 18 GAUGE, SELF-RIMMING SINK 21"x33"x10-1/2" DEEP WITH LEDGE MOUNTED FAUCET WITH GOOSENECK SPOUT, AND 4" WRIST BLADE HANDLES. PROVIDE WITH STAINLESS STEEL GRID DRAIN. SINK AND FAUCET MANUFACTURED BY JUST MANUFACTURING OR APPROVED EQUAL. |
| PRV-1 | PRESSURE REDUCING VALVE | - | - | - | VARIABLES | VARIABLES | ALL BRONZE BODY AND BELL HOUSING. PRESSURE RATED AT 300 PSI, SPRING RANGE 25 TO 75 PSI, FACTORY SET AT 50 PSI. PRV MANUFACTURED BY WILKINS OR APPROVED EQUAL. |

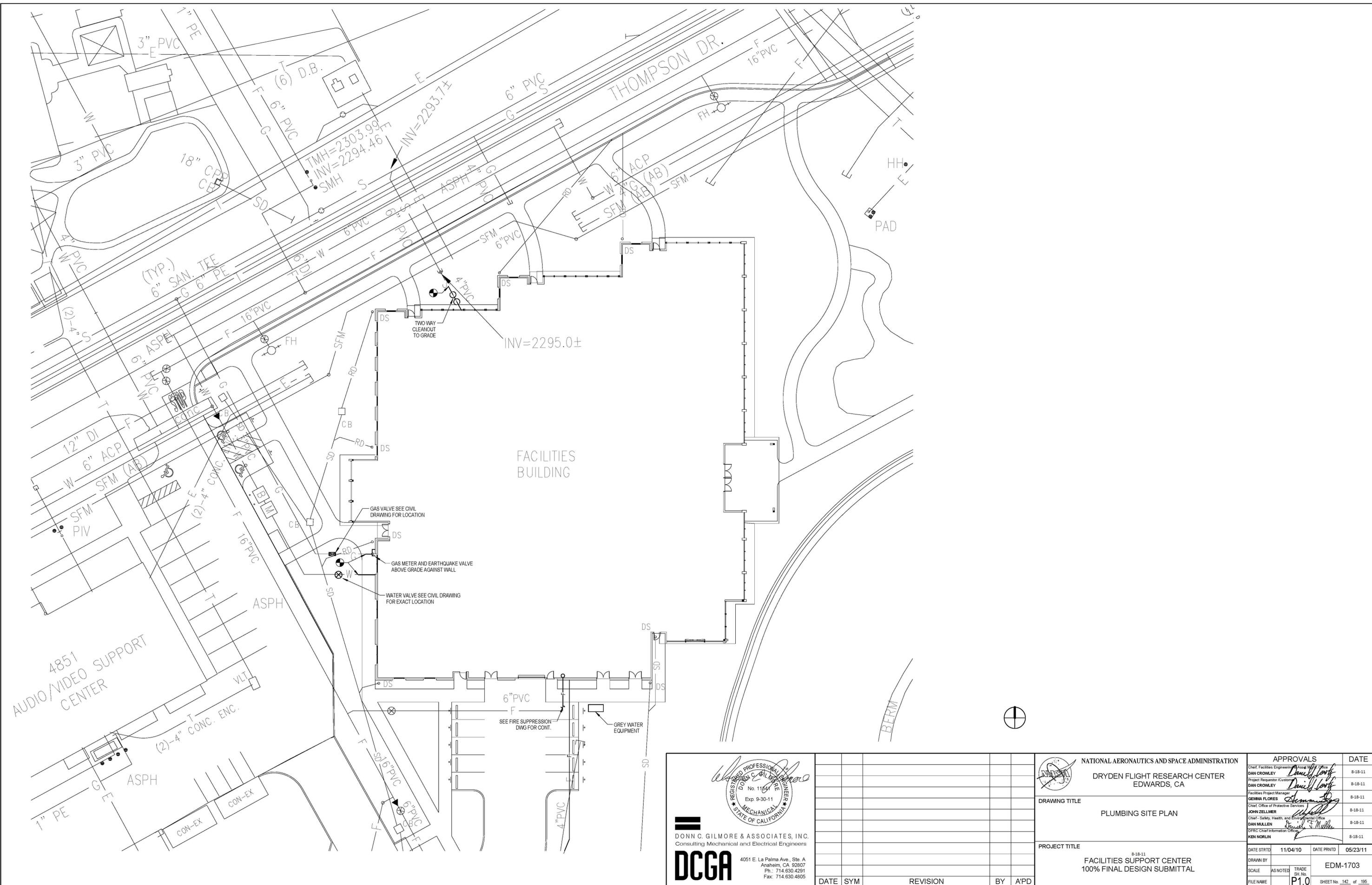
| RECLAIM WATER EQUIPMENT | | |
|-------------------------|----------------------|---|
| SYMBOL | NAME | DESCRIPTION / REMARKS |
| RWS-1 | RECLAIM WATER SYSTEM | UNIT SHALL BE COMPLETELY FACTORY PREFABRICATED, FACTORY TESTED AND GUARANTEED GRAY WATER RECOVERY AND TREATMENT SYSTEM. ENTIRE PACKAGE SHALL BE ASSEMBLED HORIZONTALLY BY MANUFACTURER THAT PRODUCES PREFABRICATED EQUIPMENT LISTED BY UNDERWRITERS LABORATORIES (U.L.) SYSTEM SHALL FILTER AND DISINFECT WATER TO MAINTAIN (OXIDATION REDUCTION POTENTIAL) OF 400 MV OR MORE. SYSTEM SHALL CONSIST OF THE FOLLOWING: -DISTRIBUTION PUMPS -WATER TREATMENT SYSTEM CONSIST OF: -OZONE GENERATORS -AIR PREPARATION UNIT -FILTERS -OZONE INJECTION AND DISTRIBUTION WITH SELF PRIMMING CIRCULATION PUMP. -UG COLLECTION TANK -SAFETY AND ALARM COMPONENTS -PUMP CONTROLS AND CONTROL PANELS -GAUGES -PRESSURE REGULATING VALVE PILOT OPERATED OZONE COMPATIBLE -HYDRO-PNEUMATIC TANK -FACTORY ASSEMBLED IN COMMON STEEL BASE -TESTING / WARRANTY -START UP AND SERVICE. |

| PLUMBING EQUIPMENT SCHEDULE | | |
|-----------------------------|------------------------|---|
| SYMBOL | NAME | DESCRIPTION / REMARKS |
| AC-1 | AIR COMPRESSOR | TANK MOUNTED AIR COMPRESSOR 7-1/2 H.P. WITH ASME 120 GALLON AIR RECEIVER INCLUDING PRESSURE RELIEF VALVE, DRAIN VALVE & SERVICE VALVE. 990 RPM, CFM DISP 28.7, 23.4 CFM DELIVERY AT 125 PSI RATING, MANUFACTURED BY CHAMPION OR APPROVED EQUAL. |
| RAD-1 | REFRIGERATED AIR DRYER | REFRIGERATED AIR DRYER CYCLING DRYER, CAPACITY 24CFM @ 38°F PRESSURE DEWPOINT WALL MOUNTED, DIMENSION 14"X13"Dx15"H, 7.3FLA, 115V, 1HP, 60HZ OPTIG W90 LBS MANUFACTURED BY CHAMPION OR APPROVED EQUAL. |


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| DATE | SYM | REVISION | BY | A/PD |
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|  NATIONAL AERONAUTICS AND SPACE ADMINISTRATION DRYDEN FLIGHT RESEARCH CENTER EDWARDS, CA | | APPROVALS Chief, Facilities Engineering: <i>Daniel Long</i> Project Requestor/Customer: <i>Daniel Long</i> Facilities Project Manager: <i>Gemma Flores</i> Chief, Office of Protective Services: <i>John Zellmer</i> Chief - Safety, Health and Environmental Office: <i>Dan Millen</i> EPRC Chief Information Officer: <i>Ken Norlin</i> | DATE 8-18-11 8-18-11 8-18-11 8-18-11 8-18-11 8-18-11 |
| DRAWING TITLE SCHEDULES | | DATE STRTD 11/04/10 DATE PRNTD 05/23/11 | |
| PROJECT TITLE FACILITIES SUPPORT CENTER 100% FINAL DESIGN SUBMITTAL | | EDM-1703 SHEET No. 141 of 195 | |



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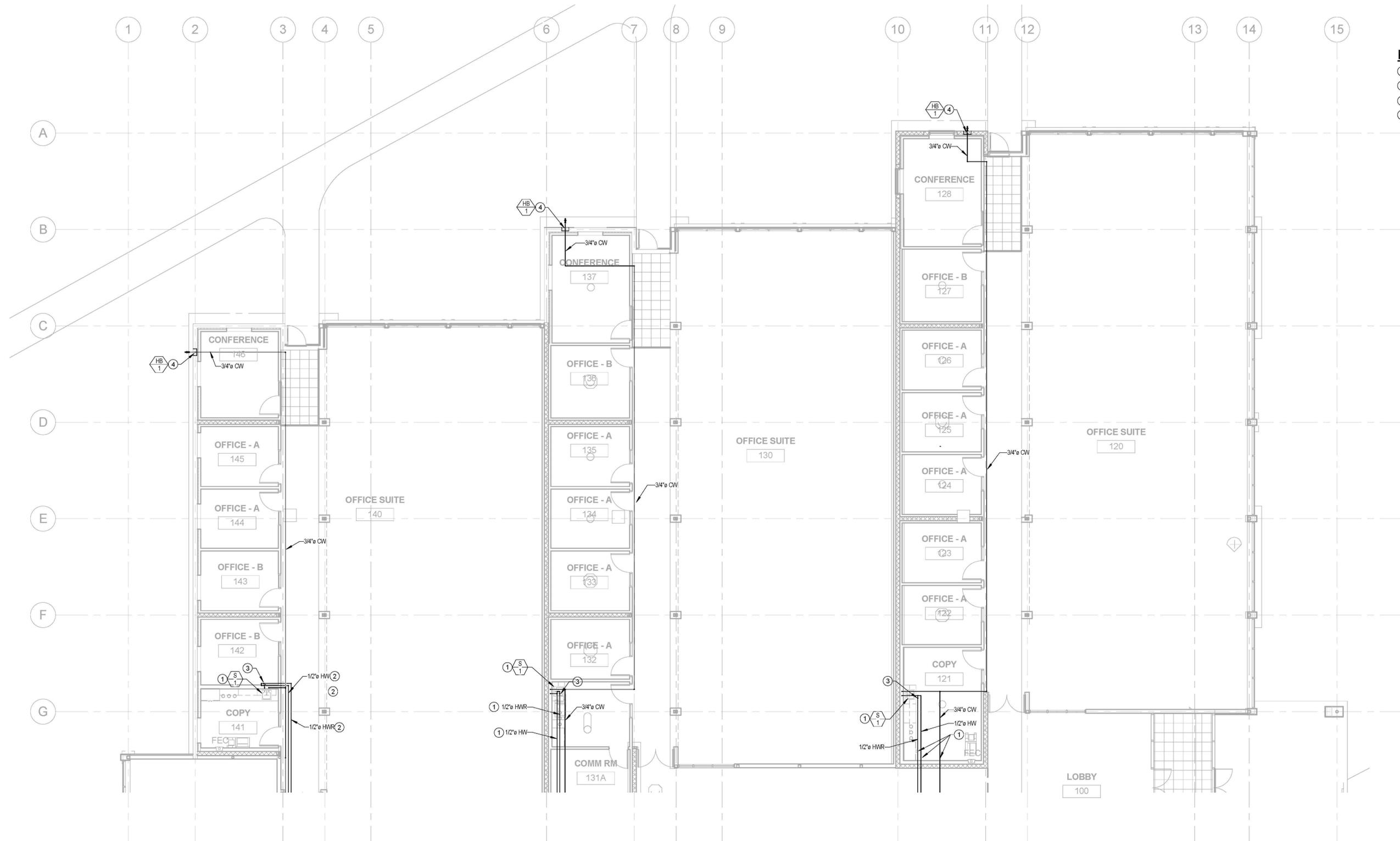
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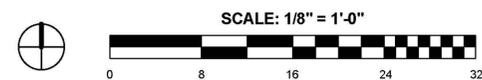
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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | | APPROVALS | | DATE |
| DRYDEN FLIGHT RESEARCH CENTER EDWARDS, CA | | Chief, Facilities Engineering <i>Dan Crowley</i> | 8-18-11 | |
| DRAWING TITLE PLUMBING SITE PLAN | | Project Requestor/Custom <i>Dan Crowley</i> | 8-18-11 | |
| PROJECT TITLE 8-18-11 FACILITIES SUPPORT CENTER 100% FINAL DESIGN SUBMITTAL | | Facilities Project Manager <i>Gemma Flores</i> | 8-18-11 | |
| | | Chief, Office of Protective Services <i>John Zellmer</i> | 8-18-11 | |
| | | Chief - Safety, Health, and Environmental Office <i>Dan Millen</i> | 8-18-11 | |
| | | DFRIC Chief Information Officer <i>Ken Norlin</i> | 8-18-11 | |
| DATE STRTD | 11/04/10 | DATE PRNTD | 05/23/11 | |
| DRAWN BY | | TRADE SH. No. | EDM-1703 | |
| SCALE | AS NOTED | TRADE SH. No. | | |
| FILE NAME | P1.0 | SHEET No. | 142 | of 195 |



- KEY NOTES:**
- ① 1/2" HW & CW DOWN
 - ② PIPING ABOVE CEILING.
 - ③ BALANCING VALVE. SET VALVE AT 2GPM FLOW
 - ④ 3/4" CW DOWN IN WALL TO HOSE BIBB IN WALL BOX

WATER, GAS & COMPRESSED AIR PIPING PLAN - NORTH SEGMENT

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



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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 DRYDEN FLIGHT RESEARCH CENTER
 EDWARDS, CA

DRAWING TITLE
 WATER, GAS & COMPRESSED AIR PIPING PLAN - NORTH SEGMENT

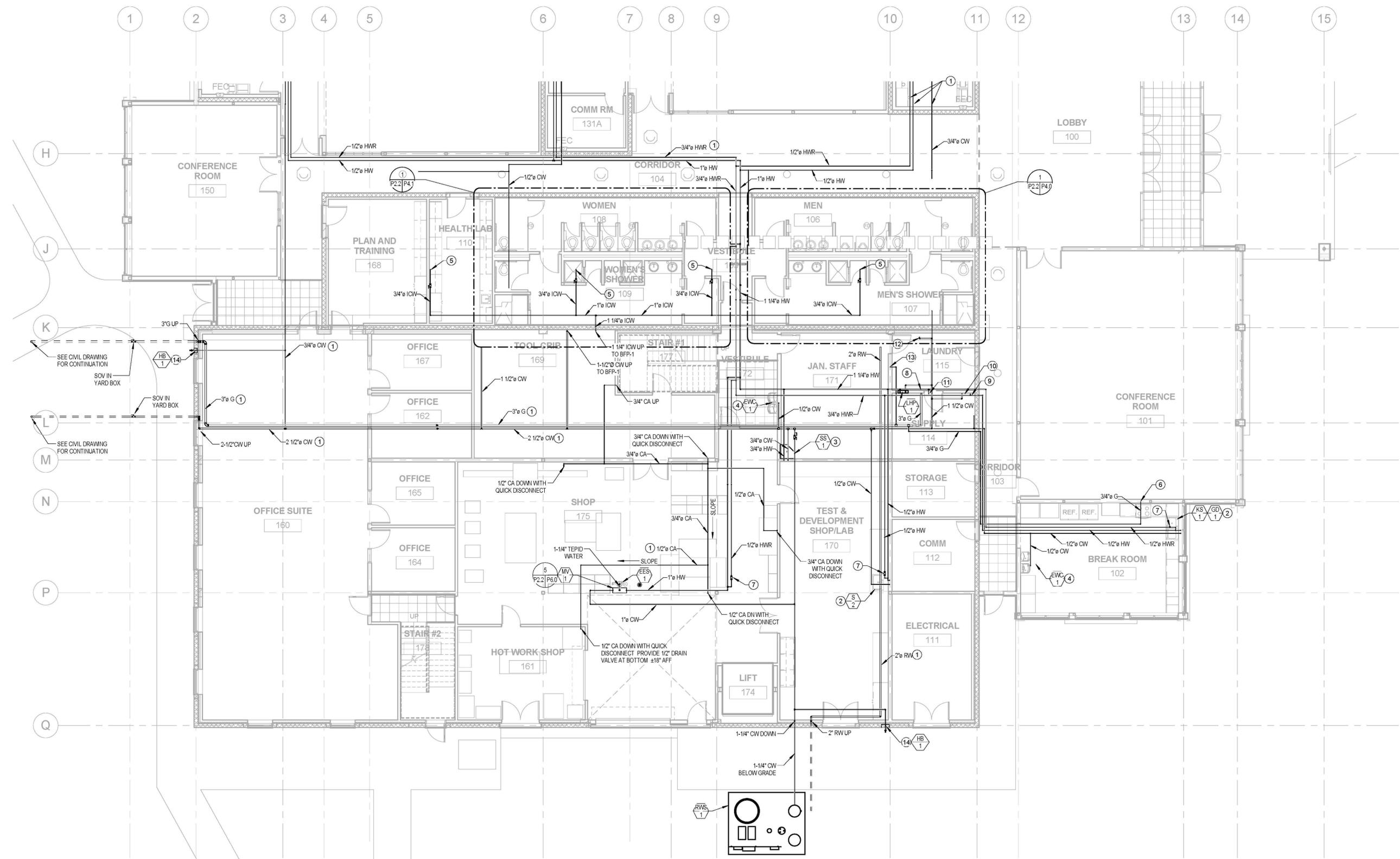
PROJECT TITLE
 FACILITIES SUPPORT CENTER
 100% FINAL DESIGN SUBMITTAL

| APPROVALS | | DATE |
|---|--------------------|---------|
| Chief, Facilities Engineering | <i>[Signature]</i> | 8-18-11 |
| Project Requestor/Custom | <i>[Signature]</i> | 8-18-11 |
| Facilities Project Manager | <i>[Signature]</i> | 8-18-11 |
| Chief, Office of Protective Services | <i>[Signature]</i> | 8-18-11 |
| Chief - Safety, Health and Environmental Office | <i>[Signature]</i> | 8-18-11 |
| DFRC Chief Information Officer | <i>[Signature]</i> | 8-18-11 |

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| DRAWN BY | | TRADE | EDM-1703 |
| SCALE | AS NOTED | FILE NAME | P2.1 |
| SHEET No. 144 of 195 | | | |

KEY NOTES:

- ① PIPING ABOVE CEILING
- ② 1/2" HW & CW DOWN
- ③ 3/4" HW & CW DOWN
- ④ 1/2" CW DOWN
- ⑤ 3/4" ICW UP TO EVAP. COOLER CONTROL VALVE SEE MECH DMG FOR DETAIL AND LOCATION
- ⑥ 3/4" G DOWN TO RANGE COMPLETE WITH SOC.
- ⑦ BALANCING VALVE
- ⑧ 3" G UP.
- ⑨ 3/4" HWR UP
- ⑩ 1-1/4" CW UP
- ⑪ 1-1/4" HW UP
- ⑫ 1-1/2" CW UP
- ⑬ 3/4" G DOWN TO FUTURE CLOTHES DRYER (35CFH)
- ⑭ 3/4" CW DOWN IN WALL TO HOSE BIBB IN WALL BOX



WATER, GAS & COMPRESSED AIR PIPING PLAN - SOUTH SEGMENT



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| NATIONAL AERONAUTICS AND SPACE ADMINISTRATION DRYDEN FLIGHT RESEARCH CENTER EDWARDS, CA | | APPROVALS Chief, Facilities Engineering: <i>Dan Crowley</i> Project Requestor/Client: <i>Dan Crowley</i> Facilities Project Manager: <i>Gemma Flores</i> Chief, Office of Protective Services: <i>John Zellmer</i> Chief - Safety, Health and Environmental Office: <i>Dan Millen</i> DFRIC Chief Information Officer: <i>Ken Norlin</i> | | DATE 8-18-11 8-18-11 8-18-11 8-18-11 8-18-11 8-18-11 |
| DRAWING TITLE WATER, GAS & COMPRESSED AIR PIPING PLAN - SOUTH SEGMENT | | DATE STRTD: 11/04/10 DATE PRNTD: 05/23/11 | | |
| PROJECT TITLE FACILITIES SUPPORT CENTER 100% FINAL DESIGN SUBMITTAL | | TRADE SH. No. EDM-1703 FILE NAME: P2.2 SHEET No. 145 of 195 | | |