

24 HOURS PRIOR TO SHUTTING DOWN ANY REFRIGERATION SYSTEMS, HVAC SYSTEMS, OR ENERGY MANAGEMENT CONTROLS SYSTEMS, SEND E-MAIL TO NSRMD@WALMART.COM. THE E-MAIL SHALL STATE WHAT, WHY, AND WHEN IT IS BEING SHUT DOWN AND HOW LONG IT IS ANTICIPATED TO BE DOWN. THEN SEND A FOLLOW UP E-MAIL TO NSRMD@WALMART.COM AFTER THE WORK IS COMPLETE AND THE SYSTEM IS BACK UP AND RUNNING.

JARED MILLER, P.E.
DC ENGINEERING PC
440 E. CORPORATE DR. SUITE 103
MERIDIAN, ID 83642

USMV-#####

PUYALLUP, WA

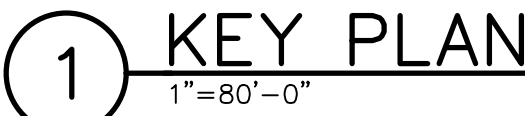
STORE #2403-###

REFRIGERATION

OPTIMIZATION—LPA/HR

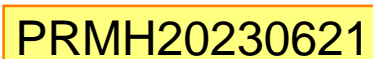
INDEX OF DRAWINGS

T1
R1
R1.1
R1.2
R2
R2.1
R2.2
R3
R4
RE1
RE2



**SEE THIS REVISED SET FOR
INSTALLATION AND INSPECTIONS**

2 VICINITY MAP




**FULL SIZED LEDGIBLE COLOR
PLANS ARE REQUIRED TO BE
PROVIDED BY THE PERMITTEE ON
SITE FOR ALL INSPECTIONS
(MIN. PLAN SIZE 24" X 36")**

CORRECT PLAN SET

**City of Puyallup
Building
ACCEPTED**

JMontgomery
07/07/2023
2:22:20 PM

The seal of the City of Puyallup, State of Washington, is circular. It features a blue sky with white clouds, a green forest of evergreen trees, and a winding blue river or path. Yellow flowers are scattered along the bottom edge of the seal. The text "CITY OF PUYALLUP" is written in a circle around the top, and "STATE OF WASHINGTON" is written around the bottom.

TITLE SHEET

SHEET: T1

EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS OR SURVEY DOCUMENTS AND MAY NOT REFLECT EXISTING "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.	EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE CONTRACTOR SHALL ACQUAINT HIMSELF WITH THE KNOWLEDGE DOES NOT RELIEVE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.
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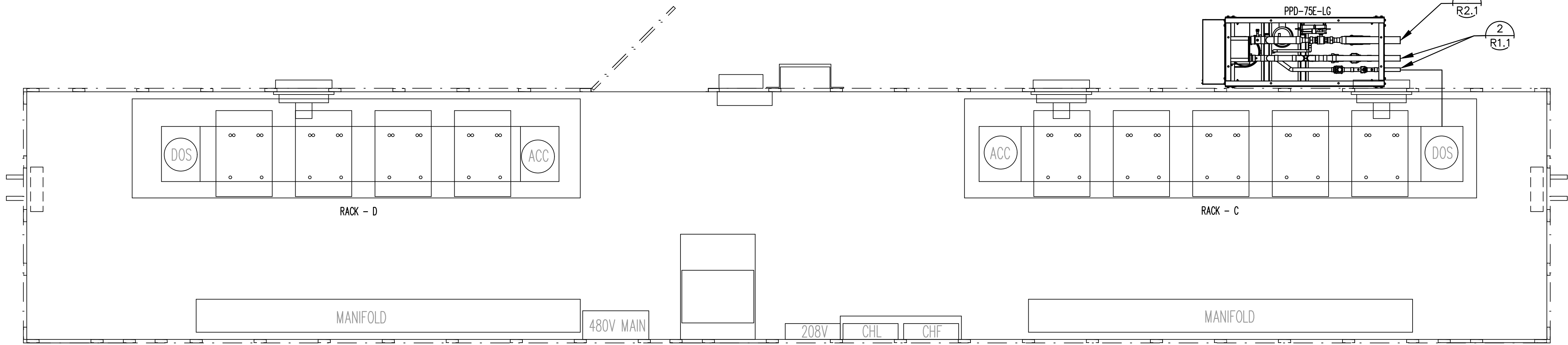
05/08/23

FOR MEDIUM TEMP OR DUAL TEMP SYSTEMS WITH EXISTING A9 RECEIVER PRESSURIZATION VALVE, VALVE SHOULD BE CLOSED PRIOR TO COMMISSIONING. WHEN CLOSING THE VALVE, ENSURE NO REFRIGERANT CAN BE TRAPPED IN THE LINE. THE VALVE SHOULD BE TAGGED BY THE CONTRACTOR WITH PERMANENT PLASTIC TAG W/ METAL ZIP TIE STATING THE FOLLOWING: "THIS VALVE HAS BEEN CLOSED INTENTIONALLY DUE TO LOWERED HEAD PRESSURE SETPOINTS. IF ONE CHOOSES TO PLACE THIS VALVE BACK INTO OPERATION, IT IS IMPERATIVE THAT IT IS ADJUSTED TO 85 PSI."

FOR MEDIUM TEMP OR DUAL TEMP RACKS, NOT RECEIVING HEAT RECLAIM SKID, CONTRACTOR TO PLACE EXISTING HOLDBACK VALVE TO MANUAL OPEN POSITION. BACK OUT VALVE STEM TO FULLY OPEN SETTING. INSTALL PERMANENT PLASTIC TAG W/ METAL ZIP TIE STATING THE FOLLOWING: "THIS VALVE HAS BEEN PLACED IN MANUAL OPEN POSITION AND THE OPERATING CONDENSER MINIMUM PRESSURE SETTING ADJUSTED TO 130PSI. IF ONE CHOOSES TO PLACE THIS VALVE BACK INTO OPERATION, IT IS IMPERATIVE THAT IT IS ADJUSTED TO 120PSI."

LPA/HRU SKID(S) TO BE PLACED IN ORIENTATION AND APPROXIMATE LOCATION AS SHOWN. CONTRACTOR TO DETERMINE FINAL MOUNTING LOCATION FOR SKID AND REFRIGERATION RACKHOUSE PENETRATION. SEE R1.1 REFRIGERATION SCHEMATICS FOR MORE PIPING DETAIL

HRU SKID CAN BE MOVED BUT CAN NOT BE FLIPPED. GLYCOL PUMP SHOULD NEVER BE PLACED AGAINST RACK HOUSE ENCLOSURE.

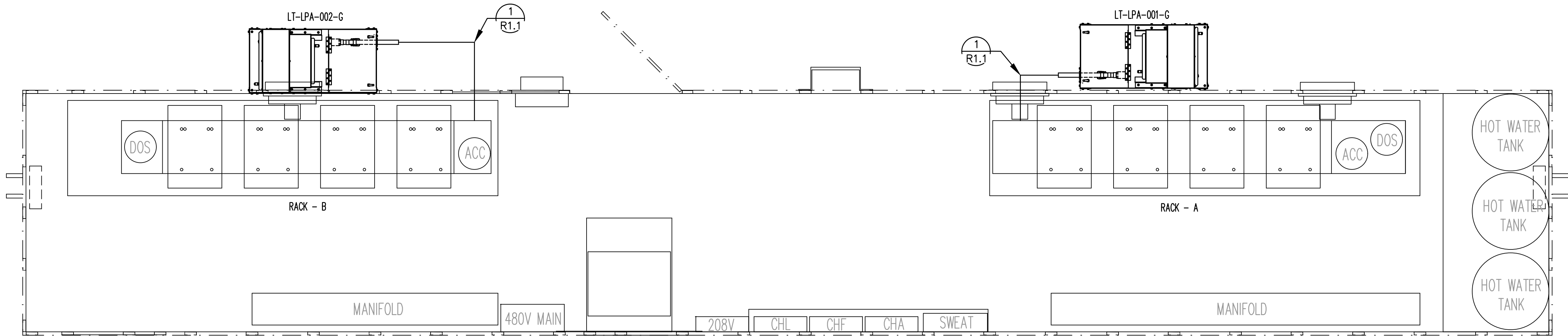


2 RACKHOUSE #2 REFRIGERATION EQUIPMENT PLAN

1/2"=1'

LPA/HRU SKID(S) TO BE PLACED IN ORIENTATION AND APPROXIMATE LOCATION AS SHOWN. CONTRACTOR TO DETERMINE FINAL MOUNTING LOCATION FOR SKID AND REFRIGERATION RACKHOUSE PENETRATION. SEE R1.1 REFRIGERATION SCHEMATICS FOR MORE PIPING DETAIL

RACKS RECEIVING LPA SKIDS SHALL BE INSTALLED WITH AN ADDITIONAL 30-50LBS OF REFRIGERANT TO BRING LEVEL BACK TO PRE-INSTALLATION CHARGE.



1 RACKHOUSE #1 REFRIGERATION EQUIPMENT PLAN

1/2"=1'

GENERAL NOTES (TYP)

- PLAN INDICATES GENERAL LOCATION OF NEW SKIDS. REF R1.1 FOR ADDITIONAL PIPING DETAILS.
- REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS, AND WITH ALL REQUIREMENTS OF REFRIGERATION EQUIPMENT MANUFACTURER.
- REFRIGERATION DRAWINGS ARE PROVIDED AS AN AID TO BIDDERS AND TO INDICATE DESIRED ROUTING OF REFRIGERATION LINES; CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CORRECT INSTALLATION OF PIPING AND ACCESSORIES TO PROVIDE A COMPLETE AND FULLY OPERATING SYSTEM.
- PIPE INSULATION SHALL BE BLACK. ANY EXISTING INSULATION THAT IS REMOVED SHALL BE REPLACED WITH NEW BLACK. SHOULD INSULATION, REFER TO SPECIFICATION 15600.
- INSTALL PIPE INSULATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.
- REFERENCE RAE CORP PROVIDED INSTALLATION AND EQUIPMENT SUBMITTALS FOR ADDITIONAL DETAILS ON INSTALLATION REQUIREMENTS.
- LIQUID LINES TO AND FROM THE LPA PUMP DO NOT NEED TO BE INSULATED. ANY LIQUID LINES INSIDE THE RACK HOUSE THAT ARE INSULATED WILL NEED TO BE RE-INSULATED AFTER CONNECTION OF NEW PIPING.
- USE OF SWIVEL TEES FOR PRESSURE SENSORS IS NOT ACCEPTABLE. PLEASE UTILIZE SHIPPED LOOSE PRESSURE SENSOR VALVE BRACED TO EXISTING PIPING AS REQUIRED. STEMS ON ALL TRANSDUCER VALVES TOUCHED OR INSTALLED AS PART OF THIS PROJECT SHALL BE BACKED OUT FULLY AND PACKINGS TIGHTENED UPON COMPLETION OF INSTALLATION.
- DO NOT USE NYLOG. ONLY "BLUE MONSTER" TEFLON TAPE IS ACCEPTABLE.
- CONTRACTOR TO PROVIDE AND REPLACE THE LIQUID FILTER DRIER CORES ON ALL RACKS UPON COMPLETION OF PROJECT.
- CONTRACTOR TO ESTABLISH LIQUID LEVEL IS SUFFICIENT IN THE SYSTEM PRIOR TO STARTING WORK. SIMULATE SUMMER CONDITION TO ACHIEVE DROPLEG TEMP. OF >80F IN FULL CONDENSER MODE FOR 30 MINUTES. REFRIGERANT LEVEL SHOULD BE MINIMUM 1-BALL ON VERTICAL RECEIVER OR 30% ON HORIZONTAL RECEIVER. IF LEVEL IS LOW SEND DOCUMENTATION TO ED TARR, PATTY JERABECK INDICATING LEVEL.
- PRIOR TO BEGINNING WORK PROVIDE A LEAK CHECK OF RACK SYSTEM WITH WALMART TECH OR DESIGNATED SERVICE PROVIDED TO ENSURE RACK IS 100% LEAK FREE EXCLUDING CASES AND INTERIOR PIPING. REPORT ANY LEAKS FOUND TO ED TARR. VERIFY THE RECIEVER LEVEL ALARM IS FULLY FUNCTIONAL.
- PRIOR TO BEGINNING WORK TAKE A PHOTO OF THE REFRIGERANT LEVEL TRACKING SHEET AND RECEIVER LEVEL FOR EACH RACK. THE PHOTO WILL BE UPLOADED TO CX ALLOY AND REQUIRED ALONG WITH CLOSE OUT DOCUMENTATION (ATTACHED TO FINAL PAY APPLICATION).
- ADDITIONAL REFRIGERATION CHARGE WILL BE REQUIRED TO BRING THE SYSTEM BACK TO PRE-CONSTRUCTION LEVELS. REFRIGERANT IS TO BE CONTRACTOR PROVIDED. THE GC SHALL COMPLETE THE REFRIGERANT FORM E WITHIN 5 BUSINESS DAYS OF ADDING THE REFRIGERANT AND EMAILED TO: MCEQUIP@WAL-MART.COM, CC: PATTY JERABECK AND ED TARR AND THE HVAC/R SENIOR MANAGER
- ALL RTI'S SHALL BE SUBMITTED THROUGH WALMART WORKSPACE TO THE EOR DC ENGINEERING. DULYA@DCENGINEERING.NET.

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR THE PROJECT AND SITE AT THE LOCATION INDICATED. IT IS NOT TO BE REUSED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DC ENGINEERING. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DC ENGINEERING MAY BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ENGINEERING ACT AND MAY BE SUBJECT TO THE LAW.

CONSULTANTS
DC ENGINEERING
Civil/Structural/Plumbing/Electrical/MEP
200.288.291

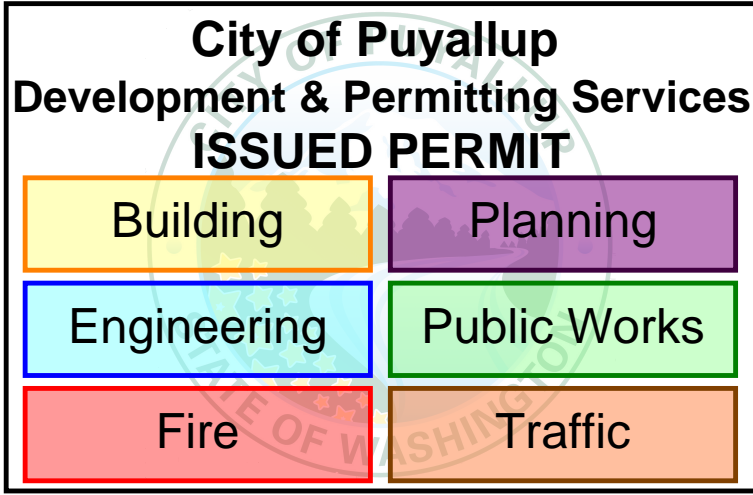
Walmart
PUYALLUP, WA
STORE NO. 2403-##
JOB NUMBER: 20VSI15

ISSUE BLOCK

NO.	DESCRIPTION	DATE

CHECKED BY: DL
DRAWN BY: DCE
DOCUMENT DATE: 05/08/23

PRMH20230621



NOTE: ALL WORK ON THIS SHEET IS TO BE COMPLETED BY A WALMART APPROVED CONTRACTOR.

NOTE: REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR ALL FINAL REFRIGERATION ELECTRICAL TERMINATIONS TO REFRIGERATION EQUIPMENT.

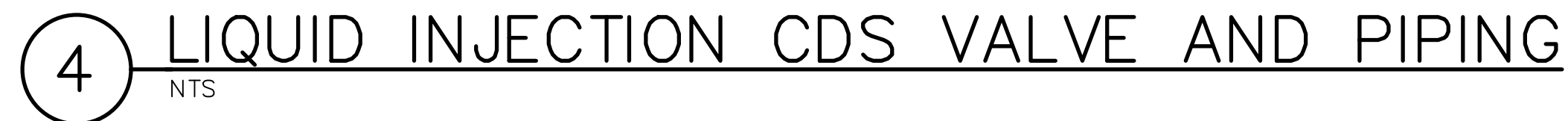
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REFRIGERATION PLAN

SHEET:
R1

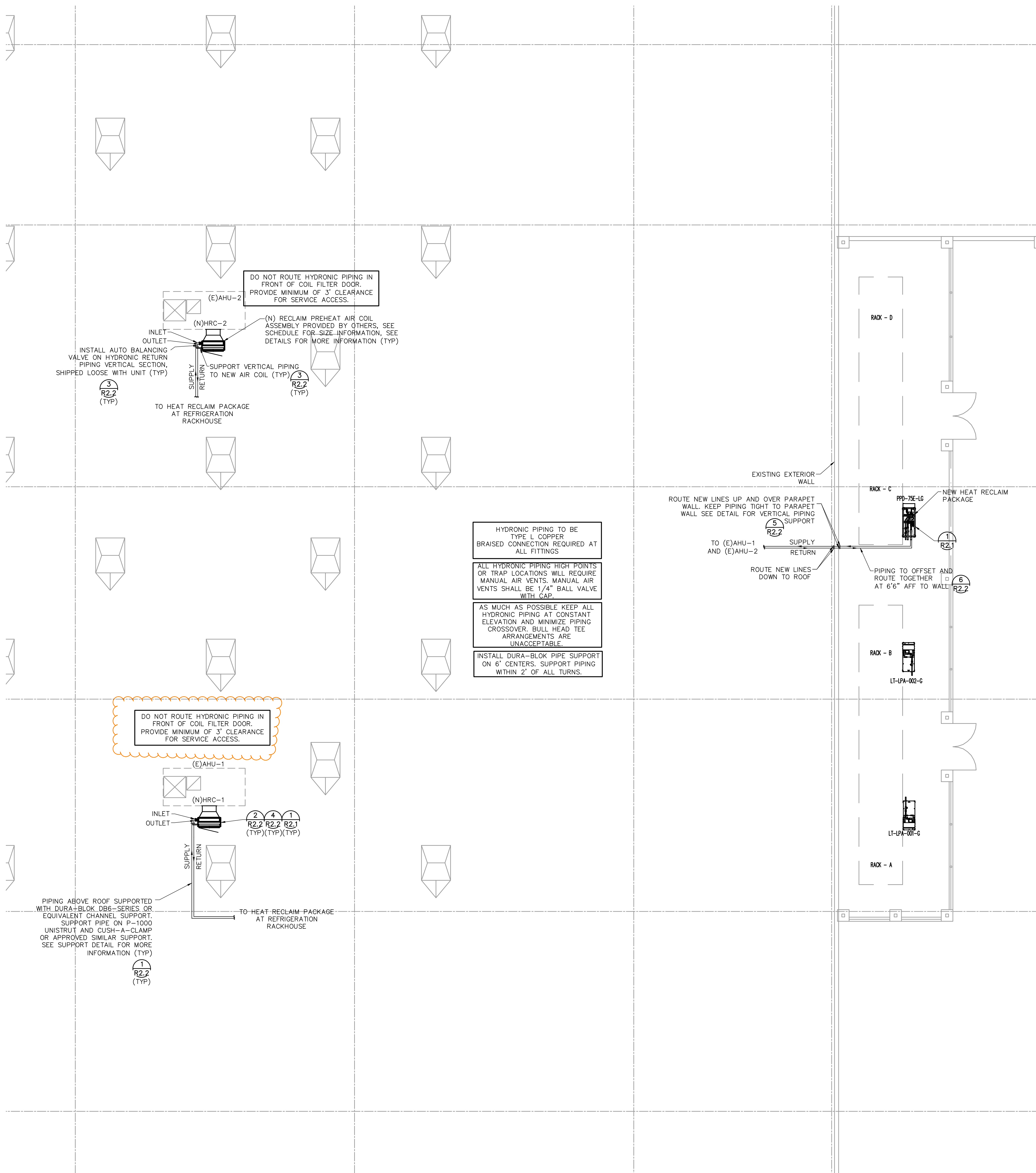


City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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SHEET:
R1.2



- GENERAL NOTES
(TYP)
1. PLAN INDICATES GENERAL LOCATION OF NEW SKIDS. REF R1.1 FOR ADDITIONAL PIPING DETAILS.

2. REFRIGERATION SYSTEM INSTALLATION SHALL BE IN COMPLETE CONFORMANCE WITH SPECIFICATIONS, AND WITH ALL REQUIREMENTS OF REFRIGERATION EQUIPMENT MANUFACTURER.

3. REFRIGERATION DRAWINGS ARE PROVIDED AS AN AID TO BIDDERS AND TO INDICATE DESIRED ROUTING OF REFRIGERATION LINES; CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR CORRECT INSTALLATION OF PIPING AND ACCESSORIES TO PROVIDE A COMPLETE AND FULLY OPERATING SYSTEM.

4. PIPE INSULATION SHALL BE BLACK. ANY EXISTING INSULATION THAT IS REMOVED SHALL BE REPLACED WITH NEW BLACK INSULATION. REFER TO SPECIFICATION 15600.

5. INSTALL PIPE INSULATION IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

6. BUILDING COMPONENTS ABANDONED BY THE SCOPE OF WORK SHALL BE SECURED TO PREVENT FALLING, LOOSENING, OR CREATING DAMAGE OF ANY KIND IN THE FUTURE.

7. REFERENCE RAE CORP PROVIDED INSTALLATION AND EQUIPMENT SUBMITTALS FOR ADDITIONAL DETAILS ON INSTALLATION REQUIREMENTS.

8. LIQUID LINES TO AND FROM THE LPA PUMP DO NOT NEED TO BE INSULATED. ANY LIQUID LINES INSIDE THE RACK HOUSE THAT ARE INSULATED WILL NEED TO BE RE-INSULATED AFTER CONNECTION OF NEW PIPING.

9. USE OF SWIVEL TEES FOR PRESSURE SENSORS IS NOT ACCEPTABLE. PLEASE UTILIZE SHIPPED LOOSE PRESSURE SENSOR VALVE BRAZED TO EXISTING PIPING AS REQUIRED. STEMS ON ALL TRANSDUCER VALVES TOUCHED OR INSTALLED AS PART OF THIS PROJECT SHALL BE BACKED OUT FULLY AND PACKINGS TIGHTENED UPON COMPLETION OF INSTALLATION.

10. DO NOT USE NYLOG. ONLY "BLUE MONSTER" TEFLON TAPE IS ACCEPTABLE.

11. CONTRACTOR TO PROVIDE AND REPLACE THE LIQUID FILTER DRIER CORES ON ALL RACKS UPON COMPLETION OF PROJECT.

12. CONTRACTOR TO ESTABLISH LIQUID LEVEL IS SUFFICIENT IN THE SYSTEM PRIOR TO STARTING WORK. SIMULATE SUMMER CONDITION TO ACHIEVE DROPLEG TEMP. OF >80F IN FULL CONDENSER MODE FOR 30 MINUTES. REFRIGERANT LEVEL SHOULD BE MINIMUM 1" BALL ON VERTICAL RECEIVER OR 30% ON HORIZONTAL RECEIVER. IF LEVEL IS LOW SEND DOCUMENTATION TO ED TARR, PATTY JERABECK INDICATING LEVEL.

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15. ADDITIONAL REFRIGERATION CHARGE WILL BE REQUIRED TO BRING THE SYSTEM BACK TO PRE-CONSTRUCTION LEVELS. REFRIGERANT IS TO BE CONTRACTOR PROVIDED. THE GC SHALL COMPLETE THE REFRIGERANT FORM E WITHIN 5 BUSINESS DAYS OF ADDING THE REFRIGERANT AND EMAILED TO: MCEQUIP@WAL-MART.COM, CC: PATTY JERABECK AND ED TARR AND THE HVAC/R SENIOR MANAGER

16. ALL RTI'S SHALL BE SUBMITTED THROUGH WALMART WORKSPACE TO THE EOR DC ENGINEERING. DULYA@DCENGINEERING.NET.

STIPULATION FOR REUSE

THIS DRAWING WAS PREPARED FOR THE PROJECT AND SITE AT 201515 PUYALLUP, WA. IT IS THE PROPERTY OF DC ENGINEERING. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DC ENGINEERING IS PROHIBITED. ANY REUSE OF THIS DRAWING FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF DC ENGINEERING MAY BE CONSIDERED A VIOLATION OF THE LAW.

CONSULTANTS

DC ENGINEERING

Consulting & Design Services

201515 PUYALLUP, WA

Walmart

PUYALLUP, WA

STORE NO. 2403-###

JOB NUMBER: 201515

ISSUE BLOCK

CHECKED BY: DL

DRAWN BY: DCE

DOCUMENT DATE: 05/08/23

PRMH20230621

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building

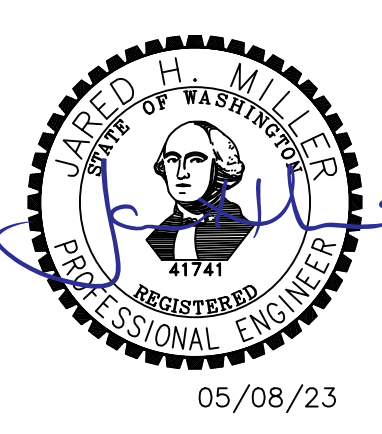
Planning

Engineering

Public Works

Fire

Traffic



05/08/23

HYDRONIC PLAN

ISSUE: R2

1 HYDRONIC EQUIPMENT PLAN

1/8" = 1'

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15.941 INSTALL AUTOMATIC BALANCE VALVE IN VERTICAL SECTION OF RETURN PIPING FROM COIL BALANCE VALVE SUPPLIED BY OWNER, SHIPPED LOOSE.

15.942 CONTRACTOR TO PROVIDE AND INSTALL PLUMBING GRADE ISOLATION BALL VALVES ON SUPPLY AND RETURN PIPING FOR EACH HRC AND FLEX HEAD FROM EACH UNIT. UPON COMPLETION, CONTRACTOR TO LEAVE VALVES IN OPEN POSITION AND REMOVE HANDLES FROM EACH BALL VALVE. ZIP THE HANDLES TO VALVE BODY.

15.943 CONTRACTOR TO PROVIDE AND INSTALL SUPPLY AND RETURN GLYCOL HYDRONIC PIPING FROM HEAT RECLAIM SKID TO EACH HRC. ALL HRC PIPING SHALL BE ASTM-B88 TYPE L COPPER.

15.944 HEAT RECLAIM SKID FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. SEE R1 AND R2 SHEETS FOR MORE INFORMATION.

15.945 HEAT RECOVERY COIL ASSEMBLY FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. SEE HEAT RECLAIM COIL SCHEDULE AND R2.2 DETAILS FOR INSTALLATION.

15.946 NEW HEAT RECLAIM SKID AND COIL EQUIPMENT HAVE ACR COPPER CONNECTION SIZES. TRANSITION FROM ACR COPPER TO ASTM-B88 COPPER AT ALL EQUIPMENT CONNECTIONS.

CONSULTANTS

DC ENGINEERING
Careful listening. Dynamic solutions.
www.dceengineering.net
202.284.2181
Project 2005115

ISSUE BLOCK

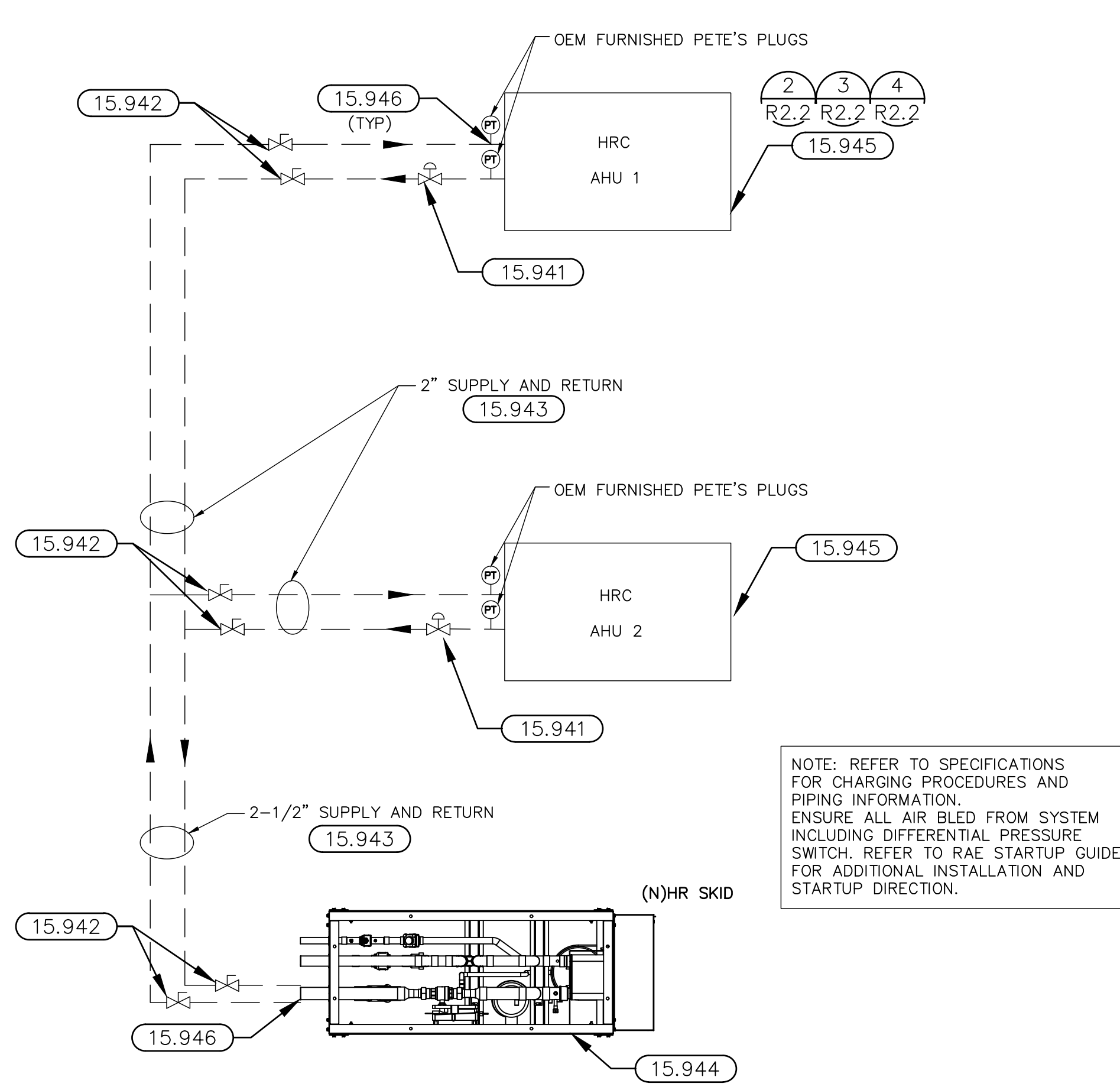
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graph TD
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Development & Permitting Services  
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    A --- C[Planning]
    A --- D[Engineering]
    A --- E[Public Works]
    A --- F[Fire]
    A --- G[Traffic]
  
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SHEET:
R2.1



1 HEAT RECLAIM HYDRONIC PIPING SCHEMATIC

<p>EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS OR SURVEY DOCUMENTS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS.</p> <p>CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS.</p> <p>CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.</p>	<p>EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD.</p> <p>THE FAILURE TO ACCOUNT HIMSELF WITH THIS KNOWLEDGE DOES NOT EXCUSE THE RESPONSIBILITY OF PERFORMING HIS WORK PROPERLY.</p> <p>NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.</p>
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RACK LTA
RACK LTB
RACK MTC
AHU 1
AHU2

REFRIG.	GENERAL
---------	---------

*CONTRACTOR TO PROVIDE AND CHARGE SYSTEM WITH NEEDED GLYCOL

NTS

STANDARD RAE PROVIDED PARTS KIT - GROUND (2 LPA SKIDS)

CDS VALVE UPGRADE FOR A8 HOLDBACK VALVES (REFERENCE PLANS FOR APPLICATION)

C
9
HCT-05
5
9
B
100E

LPA/LPI PIPING (LPA SKIDS)

AC
80
586
AC
NTC

RECEIVER EQUILIZATION BYPASS UPGRADE (REFERENCE PLANS FOR APPLICATION)

01
80

HEAT RECLAIM PIPING (HRU SKIDS)

A
A

N

CHARGING PROCEDURE:

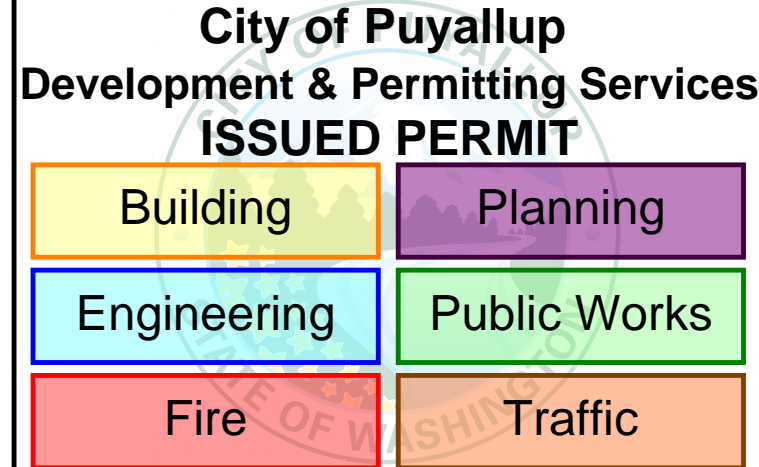
- SYSTEM TO BE COMPLETELY FLUSHED PER TYPICAL SPECIFICATIONS

[illegible]

DO NOT FILL SYSTEM WITH GLYCOL ABOVE 85F FLUID TEMPERATURE

- AFTER FILL, CIRCULATE THE PUMP AND BLEED ALL AIR FROM SYSTEM AND ENSURE THAT DURING PUMP OPERATION THE INLET PRESSURE TO PUMP REMAINS ABOVE 20 PSig. ALSO CONFIRM THE STATIC FILL PRESSURE REMAINS AT THE SET POINT PER THE ABOVE TABLE OR ADD GLYCOL TO RETURN TO PROPER FILL PRESSURE.

NTS



PRMH20230621

EXISTING CONDITIONS. DRAWINGS OR SURVEY DOCUMENTS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CONTRACTOR SHALL CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES AND EXISTING CONDITIONS.

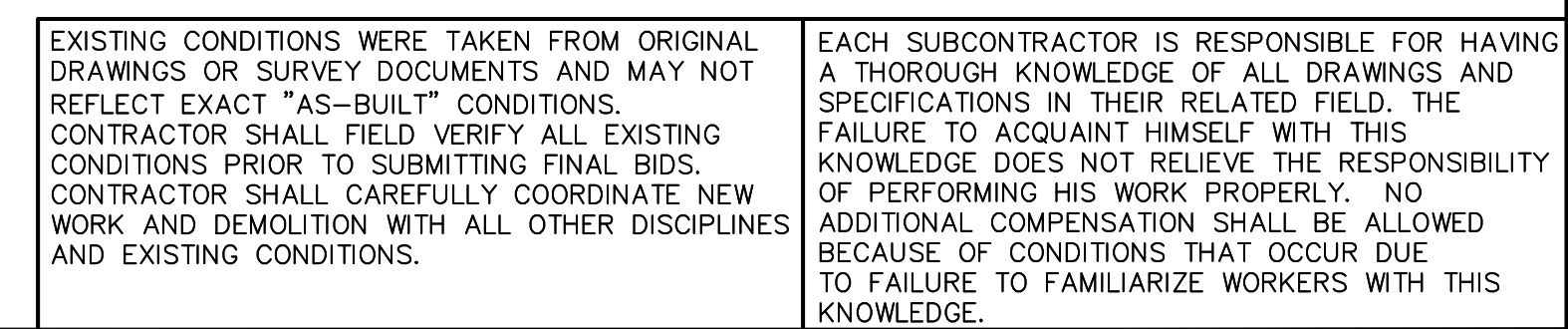
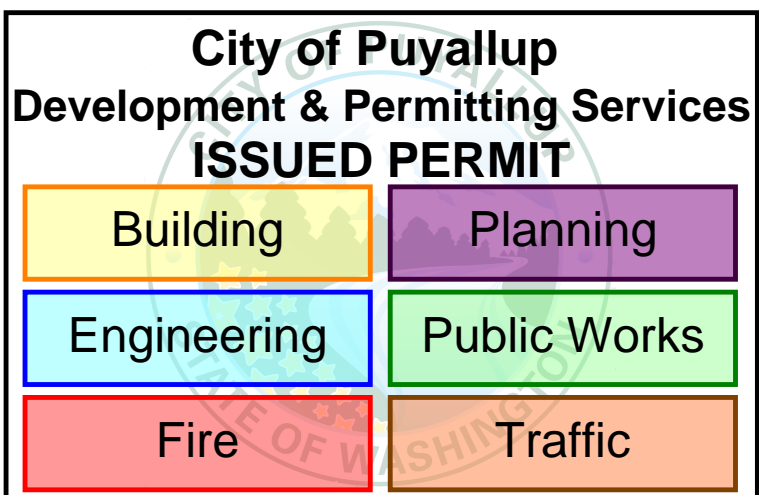
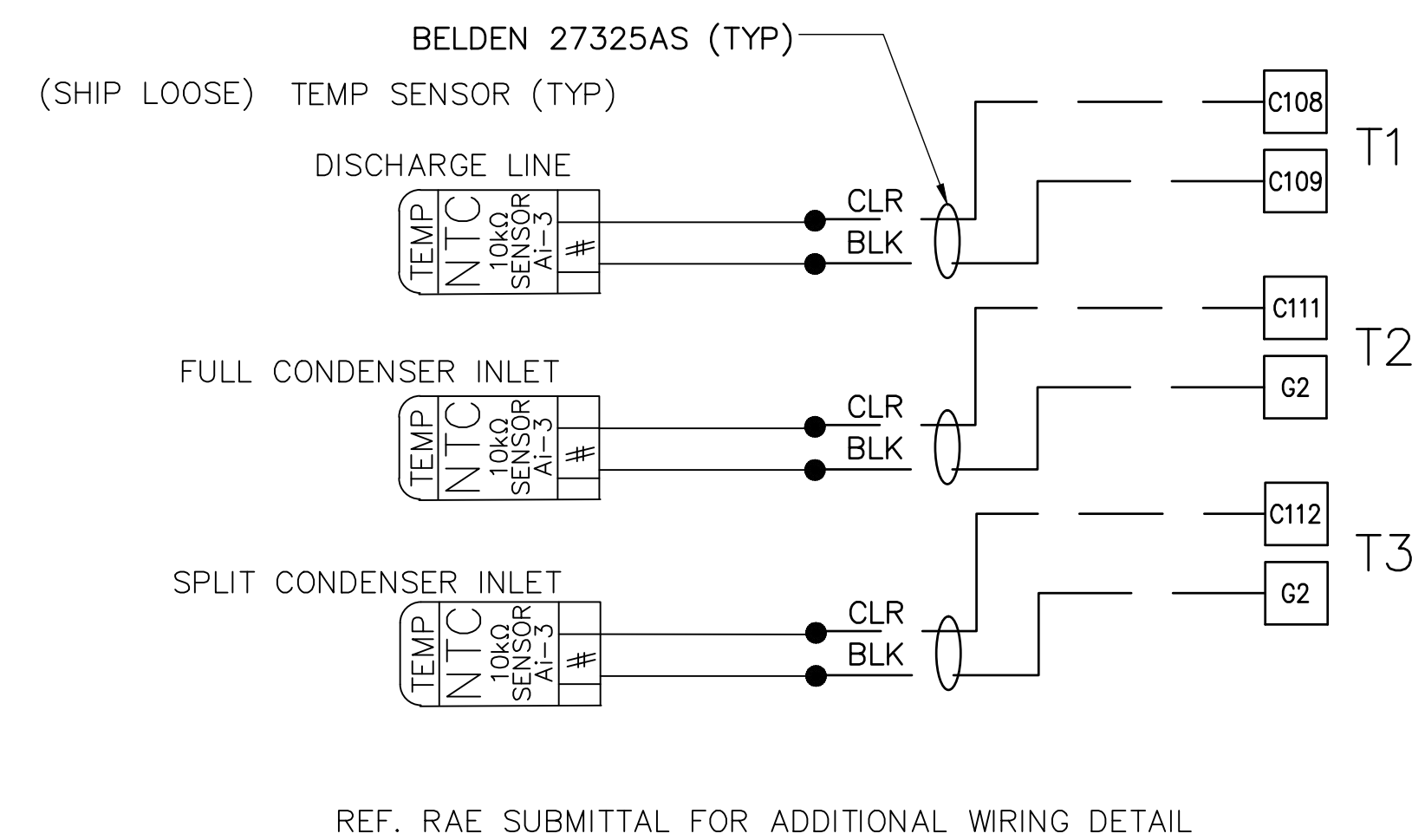
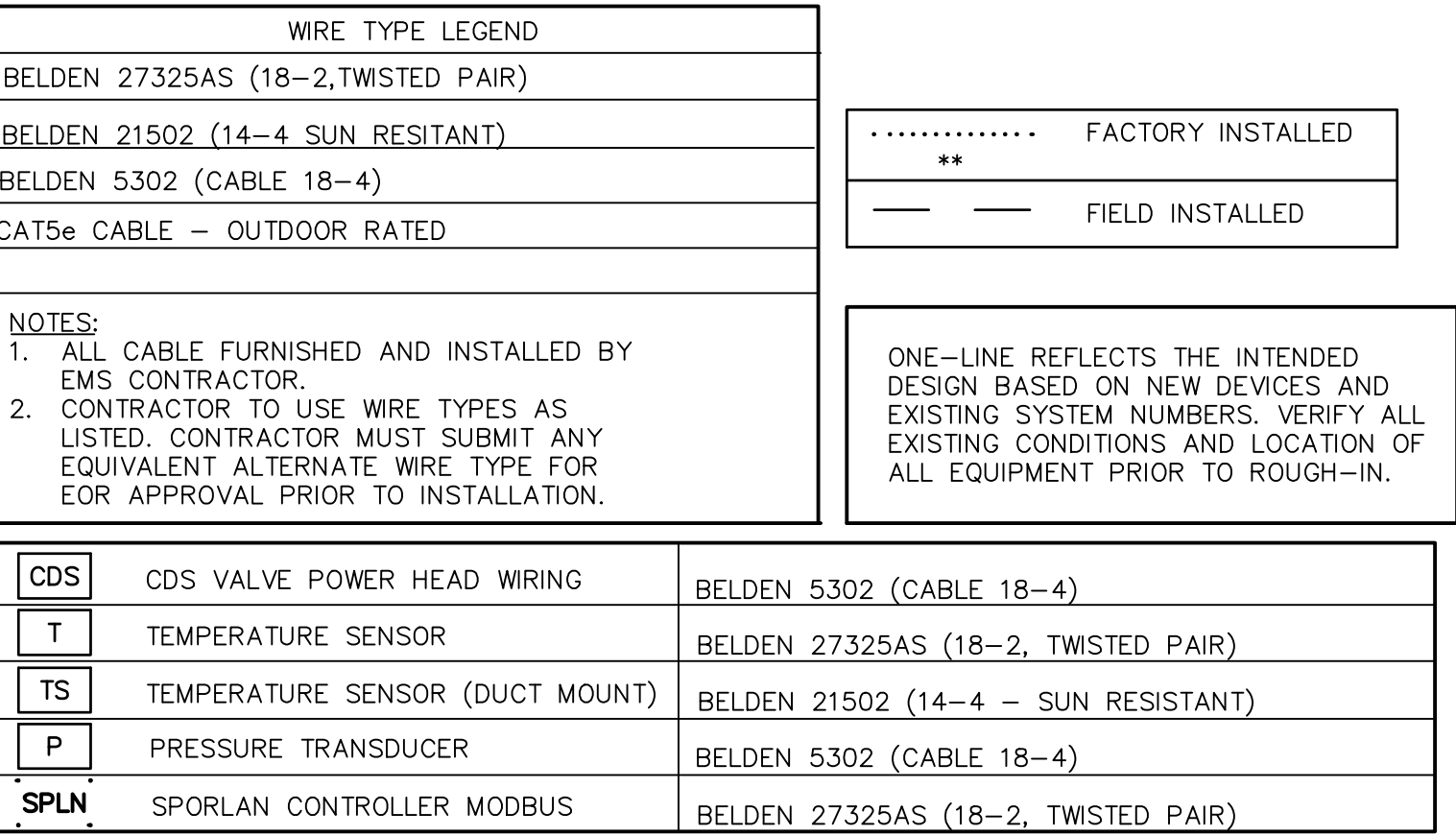
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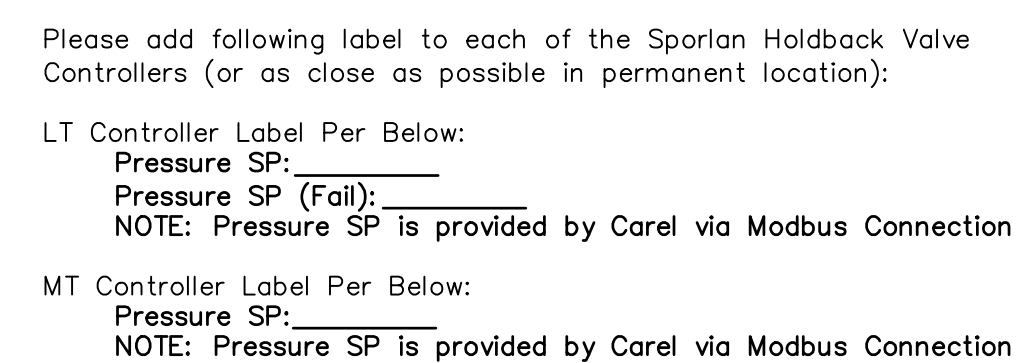
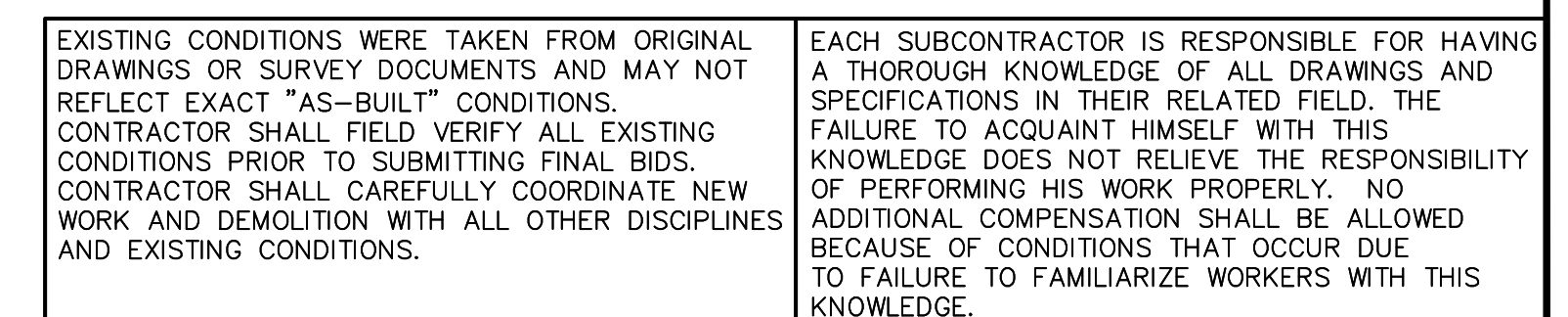
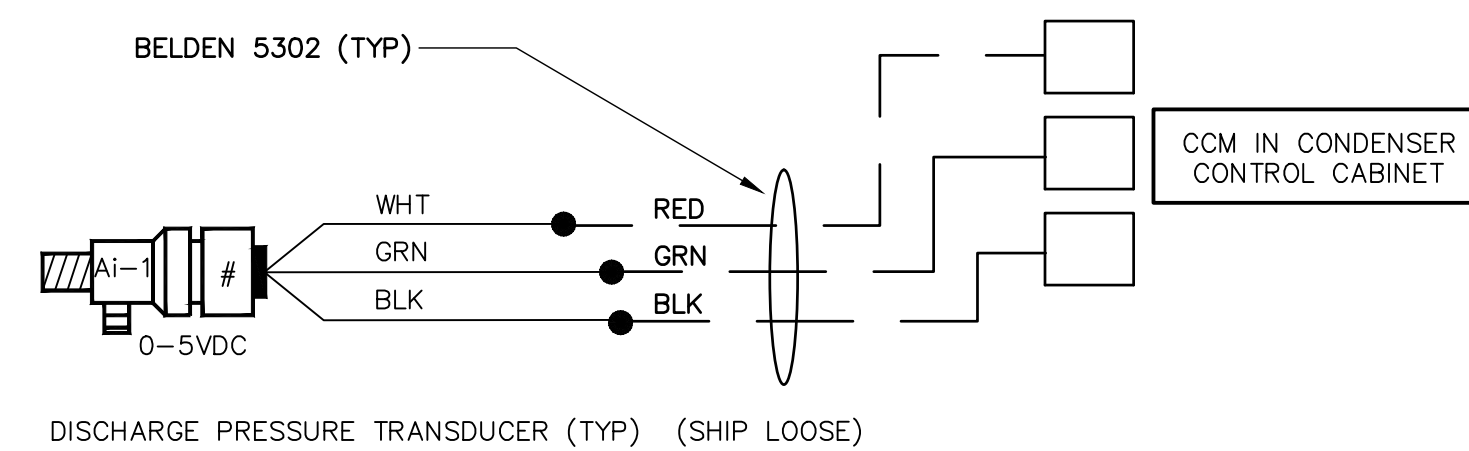
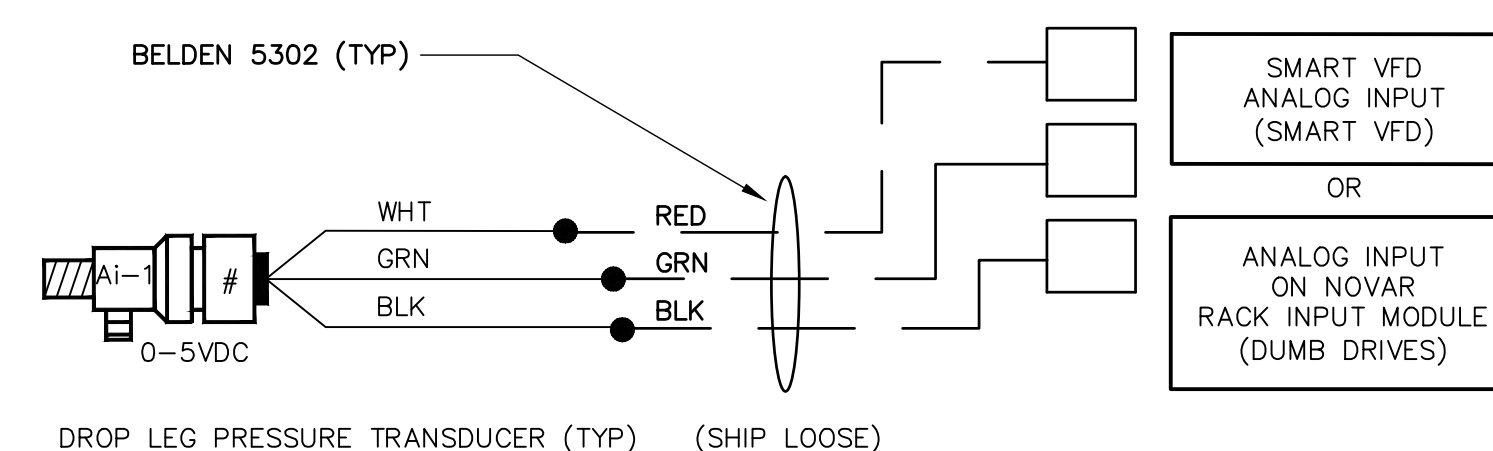
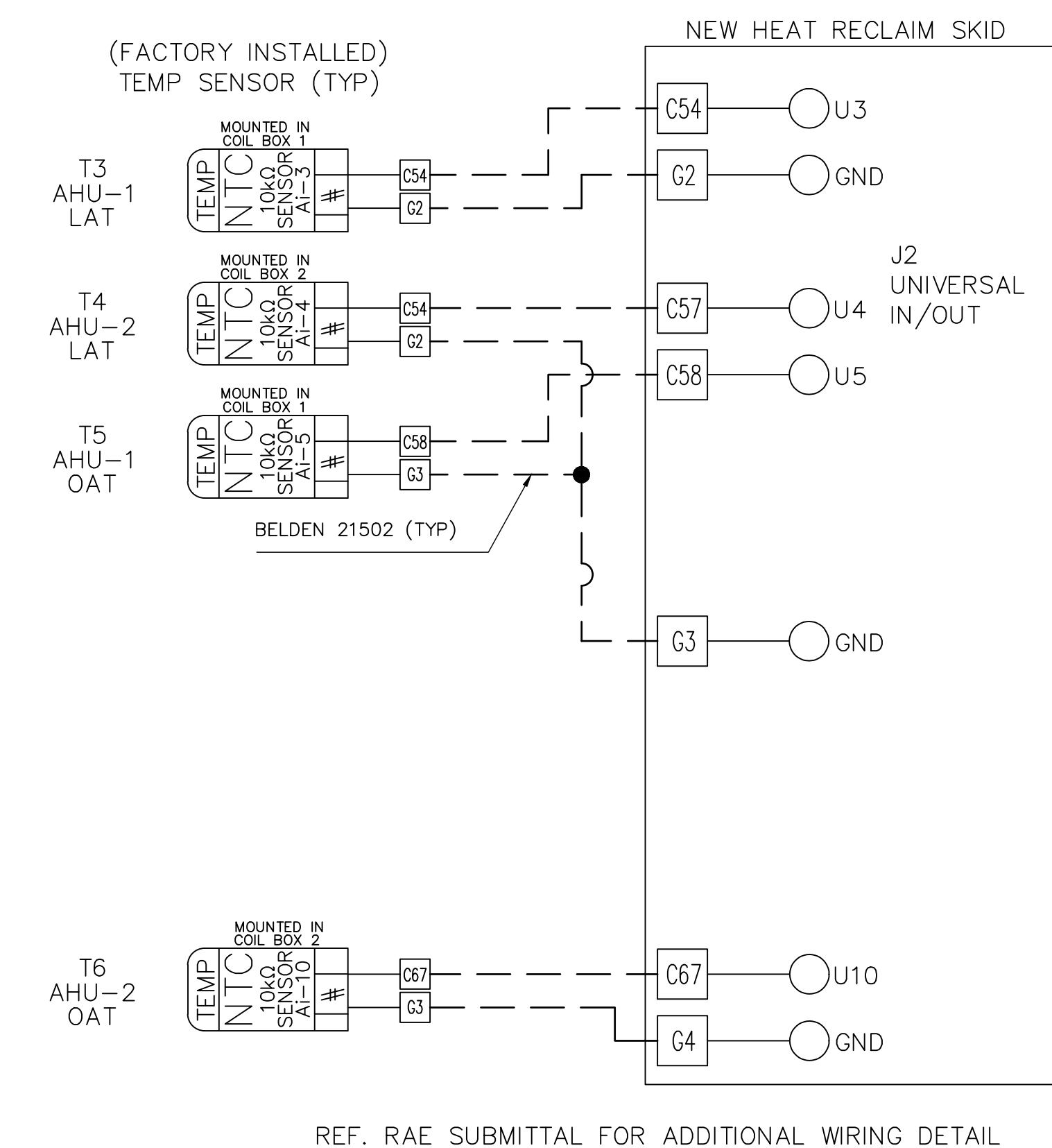
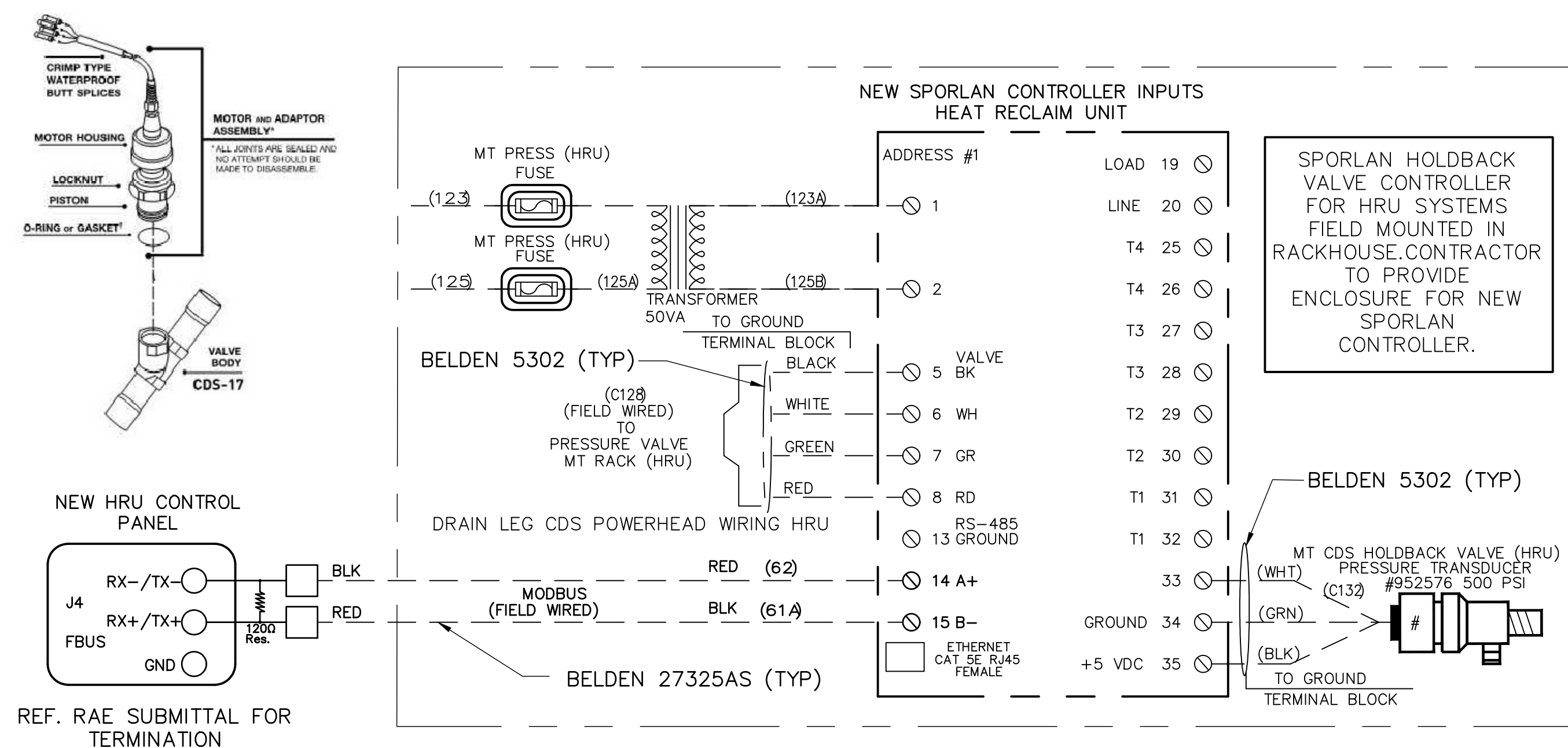
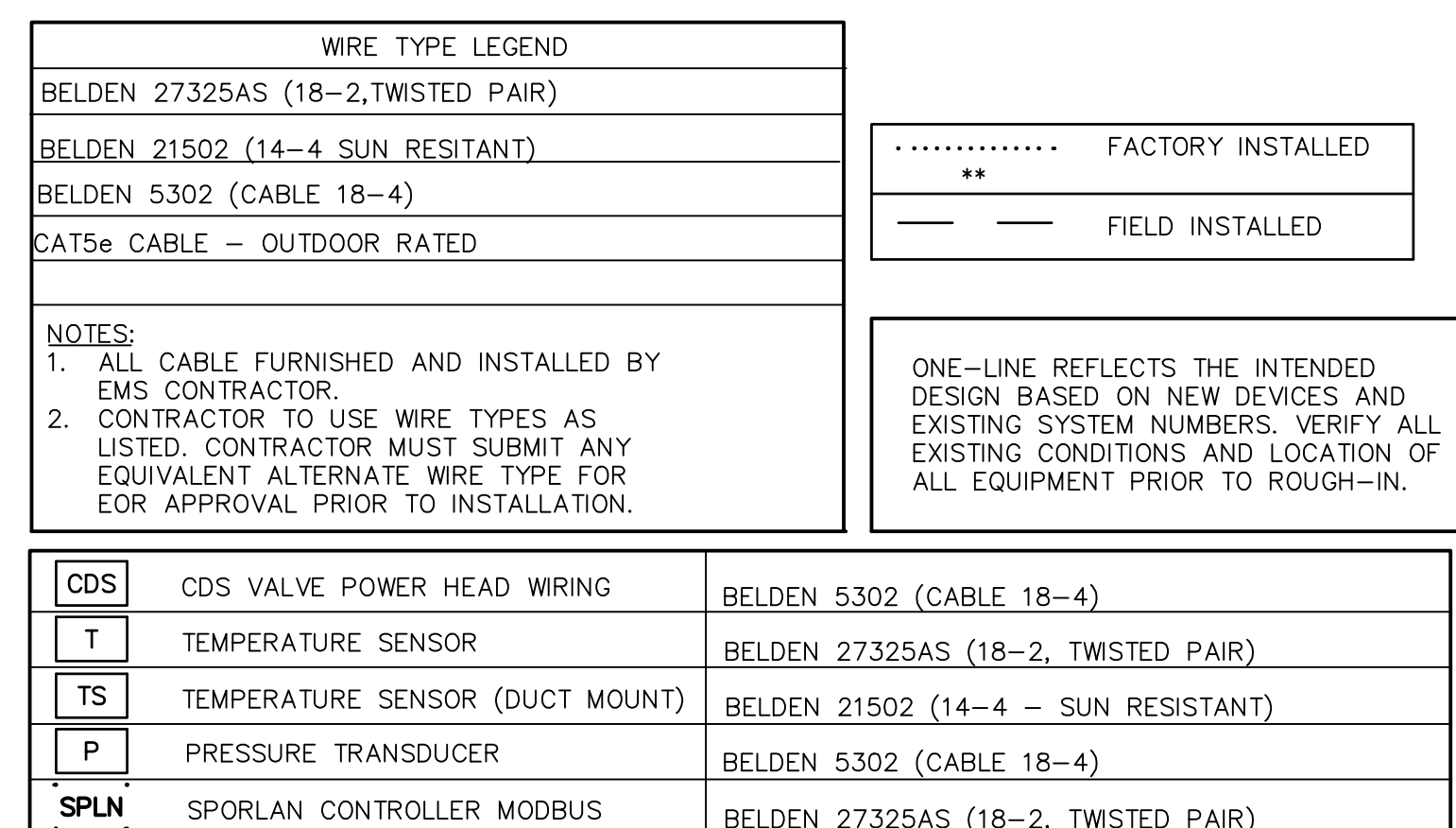


05/08/2.

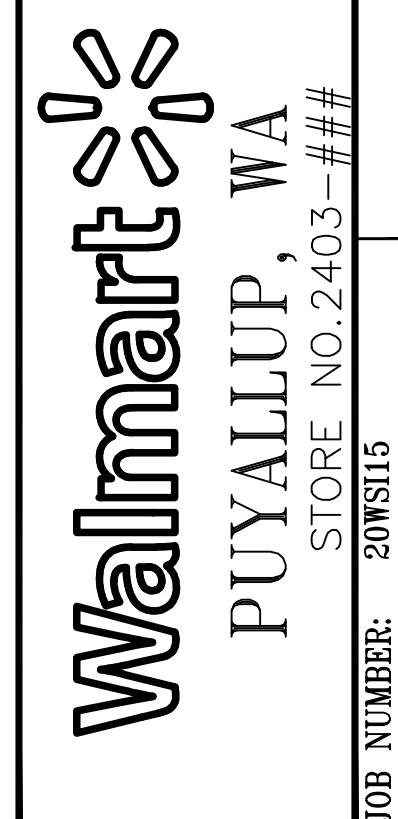
EQUIPMENT SCHEDULES

R4

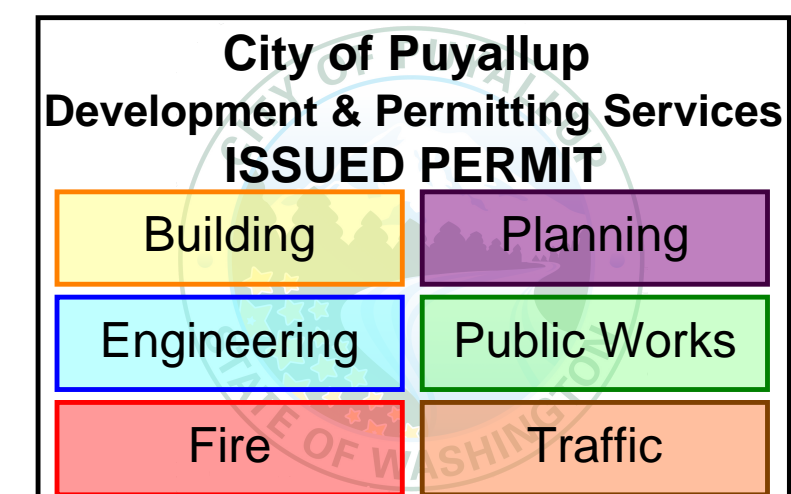




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