REQUIRED BY THE SPECIFICATIONS. SHOP DRAWINGS

MUST INCLUDE ELEVATIONS, HANGER LOCATIONS,

INFORMATION NECESSARY TO CLARIFY THE INTENT

CONFIGURATION AS SHOWN. ALTERNATE MATERIALS

MUST BE SENT TO THE FIRE PROTECTION ENGINEER

OF RECORD OR VIA THE RFI PROCESS AND MUST BE

APPROVED IN RECORD DOCUMENTS PRIOR TO BID.

COMPONENTS, INCLUDING PIPING, ALARMS, DRAINS

DISCHARGE MUST BE CONSIDERED DURING SHOP

ADDITIONAL SPRINKLERS MAY BE REQUIRED AT NO

SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

CONTRACTOR MUST VISIT THE BUILDING SITE TO

PROTECTION WORK AND EXISTING CONDITIONS,

CONDITIONS IN THE PROPOSAL FOR THIS PROJECT

NO EXTRA COMPENSATION WILL BE PAID FOR LACK

OF SUCH DETERMINATION, FAMILIARIZATION, AND/OR

DOCUMENTS PER RFI PROCESS LOCATED IN THE FIRE

NEUTRALIZATION WALLS. IF PROVIDED, ARE SHOWN

MECHANICAL DRAWINGS FOR NEUTRALIZATION WALL

PENETRATIONS OF "RATED ASSEMBLIES" SHALL BE

FIRE STOPPED WITH AN APPROVED MATERIAL PER

METHODS REQUIRED BY PROJECT SPECIFICATIONS

DEMOLITION NOTES

DETERMINE THE FULL EXTENT OF THE EXISTING FIRE

DISCONNECTIONS, REMOVALS, RELOCATIONS AND/OR

CONTRACTOR MUST VISIT THE BUILDING SITE TO

PROTECTION WORK AND EXISTING CONDITIONS,

RECONNECTIONS OF EXISTING FIRE PROTECTION

COMPENSATION WILL BE PAID FOR LACK OF SUCH

UNLESS INDICATED OTHERWISE, DISCONNECT AND

DISCONNECT, RELOCATE, AND RECONNECT EXISTING

DIAGRAMMATICALLY, THE EXTENT AND THE GENERAL

INCLUDED. PROVIDE ALL WORK OBVIOUSLY INTENDED

BUT HAVING MINOR DETAILS OMITTED OR NOT SHOWN

EQUIPMENT REQUIRED, AND CONDITIONS IN THE

PROPOSAL FOR THIS PROJECT. NO EXTRA

DETERMINATION, FAMILIARIZATION, AND/OR

COMPONENTS NOT INTENDED TO BE REUSED.

NOTE CAREFULLY THAT THE FIRE PROTECTION

CHARACTER AND LOCATIONS OF THE WORK

COMPLETE AS REQUIRED TO PERFORM THE

PROTECTION WORK PRIOR THE PROJECT

SPECIFICATIONS THERETO.

PHASING OF THE PROJECT.

VACATED FROM THESE HOLES.

THROUGHOUT THE PROJECT

SCHEDULED IN ADVANCE.

AND CONSTRUCTION.

COMPLETION.

FUNCTIONS INTENDED. FOLLOW THE CONTRACT

DOCUMENTS FOR BUILDING DETAILS AND FIT THE

WORK OF THE FIRE PROTECTION DRAWINGS AND

REMOVE ALL DEMOLITION MATERIALS AND DEBRIS T

PERFORM ALL WORK ACCORDING TO THE PROJECT

OTHERWISE, AND USE WHATEVER MEANS NECESSAR'

TO CONFORM TO THE REQUIRED CONSTRUCTION

CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR

REPLACING ITEMS DAMAGED DURING DEMOLITION

CONTRACTOR SHALL PATCH ALL HOLES TO MATCH

CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND

MAINTAINING FIRE DEPARTMENT ACCESS ROADS

. SPRINKLER SYSTEMS NOT ASSOCIATED WITH THE

. THE CONTRACTOR SHALL PROPERLY NOTIFY THE

A MINIMUM OF 48 HOURS IN ADVANCE BEFORE

LANDLORD. THE LESSOR AND THE ADJACENT TENANTS

PROCEEDING WITH THIS WORK. ALL WORK SHALL BE

DEMOLITION SHALL BE LEFT IN SERVICE.

ADJACENT SURFACES LEFT UNUSED AFTER EXISTING

SPRINKLER PIPING OR EQUIPMENT IS REMOVED AND

PHASING SCHEDULE INFORMATION FOR THIS

PROJECT. PROVIDE ALL NECESSARY FIRE

PROTECTION WORK, TEMPORARY AND/OR

AN APPROVED DUMPING SITE AND CLEAN ALL FIRE

DRAWINGS ARE INTENDED TO INDICATE, ONLY

REMOVE ALL EXISTING FIRE PROTECTION

BECOME TOTALLY FAMILIAR WITH THE

AND THE AUTHORITY HAVING JURISDICTION.

ON THE ARCHITECTURAL DRAWINGS. REFER TO

DISCONNECTIONS, REMOVALS, RELOCATIONS

AND/OR RECONNECTIONS OF EXISTING FIRE

PROTECTION EQUIPMENT REQUIRED, AND

. SUBMIT A REQUEST FOR INFORMATION FOR

PROTECTION SPECIFICATIONS.

PENETRATION DETAIL

QUESTIONS REGARDING THE FIRE PROTECTION

COORDINATE LOCATIONS OF FIRE PROTECTION

TEST POINTS, ETC. WITH ARCHITECTURAL,

STRUCTURAL, MECHANICAL, AND ELECTRICAL

COMPONENTS. OBSTRUCTION TO SPRINKLER

DRAWING PRODUCTION AND INSTALLATION;

ADDITIONAL COST TO OWNER. REFER TO

BECOME TOTALLY FAMILIAR WITH THE

ALLOWANCE.

ALLOWANCE.

OF INSTALLATION. CONTRACTOR SHALL PROVIDE

PIPE LENGTHS, DIMENSIONS, FABRICATIONS

METHODS, MATERIAL DATA, AND ADDITIONAL

PIPE SIZE, SPRINKLER SPACING, AND SYSTEM

PROTECTION DETAILS SHEET. ALL 1-INCH ARMOVERS (IF APPLICABLE) SHALL HAVE A HANGER SECURED TO THE STRUCTURAL STEEL ONLY NOT TO THE DECK WHEN THE LENGTH EXCEEDS 2'-0" WHERE STATIC PRESSURES ARE UP TO 100 PSI AND 1'-0" WHERE STATIC PRESSURES EXCEEDS 100 PSI. WHEN REQUIRED EARTHQUAKE BRACING SHALL BE INSTALLED. REFERENCE EARTHQUAKE BRACING NOTES AND DETAILS LOCATED ON THE FIRE FIRE PROTECTION DETAILS SHEET.

IN AREAS WHERE REQUIRED IN ORDER TO COMPLETE THE WORK NEEDED SUCH AS DEMO AND INSTALLATION OF NEW MAINS OR LONG DROPS. IN THIS CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING DAMAGED CEILING TILE OR GRID DURING THE INSTALLATION. ALL REMOVED CEILING TILES MUST BE REPLACED AT THE END OF BUSINESS DAY. AREAS LEFT EXPOSED SUCH AS BUT NOT LIMITED TO REMOVED CEILING GRID AND CEILING TILES SHALL NOT BE PERMITTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING AND INSTALLING MATCHING CEILING TILES TO REPLACE ANY CEILING TILES THAT HAVE EMPTY HOLES DUE TO SPRINKLER REPLACEMENT. USE EACH EXISTING OUTLETS FOR ONE NEW ARM OVER TO NEW SPRINKLER LOCATION UNLESS HYDRAULICALLY CALCULATED. CONTRACTOR SHALL INSTALL 1" INCH MECHANICAL TEES IF ADDITIONAL OUTLETS ARE REQUIRED. AFTER THE DEMOLITION IS COMPLETE, THE NEW SPRINKLER SYSTEM SHALL MEET ALL REQUIREMENTS OF NFPA 13.

). CONTRACTOR SHALL PROVIDE NEW SPRINKLERS AS NECESSARY DUE TO PAINT, DAMAGE, ETC.. CONTRACTOR SHALL COORDINATE. . THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FIRE LANES DURING THE SPRINKLER SYSTEM UPGRADE PROCESS. THE CONTRACTOR SHALL COORDINATE WITH THE STORE MANAGER A STAGING AREA FOR MATERIALS AND TOOLS TO BE USED FOR PROJECT PRIOR TO START OF WORK

. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING THE SHOP DRAWINGS HYDRAULIC CALCULATIONS AND APPROVAL (BY THE ENGINEER OF RECORD AND AHJ) AS WELL AS INSTALLATION. . THE SPRINKLER CONTRACTOR MUST FIRST SUBMIT DOCUMENTS. AS OUTLINED IN THE PROJECT SPECIFICATIONS. TO THE FIRE PROTECTION

ENGINEER OF RECORD FOR APPROVAL. AFTER THE APPROVAL IS GIVEN, THE CONTRACTOR MUST SUBMIT TO THE AUTHORITY HAVING JURISDICTION FOR INSTALLATION PERMIT.

1. THE CONTRACTOR SHALL COORDINATE WITH THE STORE MANAGER ON THE AREA TO BE WORKED ON AT LEAST 24 HOURS IN ADVANCE. 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY CONTENT OR BUILDING COMPONENTS DUE TO CONTRACTOR NEGLIGENCE IN EXECUTION OF THE SCOPE OF WORK SHOWN IN CONTRACT DOCUMENTS. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO REDUCE POTENTIAL DAMAGE TO CONTENTS AND BUILDING DURING EXECUTION OF SCOPE OF WORK. WHERE POTENTIAL FOR DAMAGE TO CONTENTS OR BUILDING COMPONENTS IS CONSIDERED LIKELY DUE TO EXISTING SYSTEM CONDITION OR CONFIGURATIONS, CONTRACTOR SHALL DOCUMENT AND REVIEW

CONCERNS WITH WALMART CONSTRUCTION MANAGER PRIOR TO INITIATING AFFECTED WORK 3. THE CONTRACTOR SHALL REPAIR ANY LEAKS OR REPLACE ANY LEAKING COMPONENTS AFFECTED BY THIS SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.

NOTES

SEISMIC REQUIREMENTS

THE SPRINKLER CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS PER NFPA 13 " PROTECTION OF PIPING AGAINST DAMAGE WHERE SUBJECT TO EARTHQUAKES". THE SPRINKLER CONTRACTOR MUST ALSO TAKE INTO ACCOUNT THE LIMITATIONS OF THE STRUCTURAL ELEMENTS PRIOR TO SIZING, FASTENING AND/OR LOCATING SEISMIC ASSEMBLIES, RESTRAINTS, ETC. ON THEIR PLANS. STRUCTURAL REQUIREMENTS

THE DESIGN SHOWN ON THESE CONTRACT DOCUMENTS HAS BEEN PREPARED FOR APPROVAL BY THE AUTHORITY HAVING JURISDICTION AND TO PROVIDE GUIDANCE FOR BIDDING. SUBMIT COMPLETE FIRE SPRINKLER SHOP DRAWINGS AS REQUIRED BY CONTRACT DOCUMENTS TO THE OWNERS DESIGNATED REVIEWERS. BASE SPRINKLER DESIGN UPON THESE DRAWINGS AND AS

CEILING GRID SHALL BE PERMITTED TO BE REMOVED

AIR RELEASE VENT

ONE AIR VENT MUST BE INSTALLED ON ALL WET TYPE FIRE PROTECTION SYSTEMS INCLUDING SYSTEMS NOT AFFECTED BY THE REMODEL SCOPE OF WORK. EACH AIR VENT IS TO BE INSTALLED AT THE HIGHEST POINT OF THE SYSTEM AND PREFERABLY ON THE MAINS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING THE HIGHEST POINT OF EACH SYSTEM AND INSTALLING THE AIR VENT IN AN ACCESSIBLE LOCATION. IF THE AIR VENT IS TO BE INSTALLED ABOVE AN EXISTING CEILING THE CONTRACTOR MUST PROVIDE SIGNAGE PER NFPA 3. REF 4-FP7.

PLACARD INFORMATION

THE FOLLOWING INFORMATION MUST BE SHOWN ON

SYSTEM #: X AREA: X SPRINKLERS CALCULATED: X SPRK END HEAD PRESSURE: X HOSE DEMAND: X SYSTEM FLOW DEMAND: X SYSTEM PRESSURE DEMAND: X SYSTEM SAFETY FACTOR: X INSTALLING CONTRACTOR: X

UL PERFORMANCE BASE DESIGN PROJECT 4788122552, NC27954

Read Permit Conditions prior to calling for inspection.

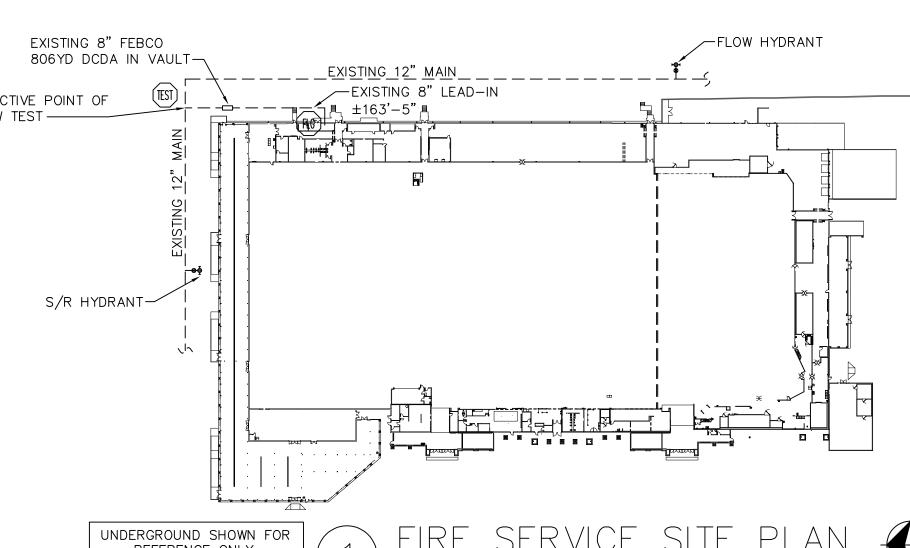
City of Puyallup Fire **REVIEWED FOR COMPLIANCE** DDrake

02/10/2025 10:11:12 AM

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

> THIS STORE HAS EXISTING SUSPENDED CEILINGS. INCLUDE ALL REQUIRED



SCOPE OF WORK

CONTRACTOR TO FIELD VERIFY EXTENT OF WORK. UPGRADE THE EXISTING FIRE SPRINKLER SYSTEM IN THE GROCERY STOCKROOM, GENERAL MERCHANDISING STOCKROOM, SALES FLOOR AND SEASONAL SHOP TO MEET THE DISCHARGE PRESSURE, HOSE ALLOWANCE AND MAXIMUM SPRINKLER SPACING AS REFERENCED IN THE PROTECTION CRITERIA LEGEND. THE EXISTING FIRE SPRINKLER SYSTEMS WILL BE

MODIFIED AS INDICATED ON THE PROJECT CONTRACT DOCUMENTS. THE SCOPE OF WORK MAY INCLUDE THE MODIFICATION OF EXISTING BRANCHLINES, INSTALLATION OF NEW BRANCHLINES, MODIFICATION OF EXISTING RISER(S), THE REMOVAL AND INSTALLATION OF NEW SPRINKLERS, MODIFICATION OF EXISTING MAINS, INSTALLATION OF NEW MAINS, REPLACEMENT OF THE EXISTING BACKFLOW ALL NEW PIPING SHALL HAVE HANGERS INSTALLED IN

ACCORDANCE TO THE DETAILS LOCATED ON THE FIRE

WALMART MANAGEMENT. THIS PERSON SHALL BE PROVIDED WITH AT LEAST ONE APPROVED MEANS FOR NOTIFICATION TO THE FIRE DEPARTMENT. 6. ONLY (1) ONE SYSTEM IS PERMITTED TO BE SHUT DOWN AT ONE TIME. . ANY FIRE DEPARTMENT FEES FOR FAILURE TO FOLLOW PROCEDURES WILL BE AT THE GENERAL CONTRACTORS EXPENSE.

REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION, DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO THE WALMART. ALL EXITS SHALL NOT BE BLOCKED, REDUCED OR OTHERWISE MADE INOPERABLE WHICH ALSO INCLUDES THE EXIT ACCESS, THE EXIT AND EXIT DISCHARGE TO THE PUBLIC WAY. TEMPORARY MEANS OF EGRESS ARE ALLOWED. . ALL SYSTEMS TO BE LEFT IN SERVICE PRIOR TO THE END OF EACH WORKDAY

SYSTEM IMPAIRMENT

REQUIREMENTS

COORDINATION, VERIFICATION AND PROVISION OF A

INCURRED AS A RESULT OF THIS PROJECT SHALL BE

INCLUDED IN THE PROJECT BID AS A SEPARATE LINE

CONTRACTOR SHALL CALL DIRECT TO THE FIRE

DEPARTMENT AND ALARM CENTRAL TO ADVISE WORK

. A FIRE WATCH SHALL BE REQUIRED WHEN ANY FIRE

PROTECTION SYSTEM IS IMPAIRED OR OTHERWISE

DOWN FOR ALTERATION PER IFC 2021 EDITION. THE

APPROVED FIRE WATCH SHALL BE CONDUCTED BY A

DEDICATED, TRAINED WALMART EMPLOYEE WHOSE

PATROLS OF THE PREMISES AND KEEP WATCH FOR

REPORT BACK TO THE GENERAL CONTRACTOR AND

SOLE RESPONSIBILITY WILL BE TO PERFORM HOURLY

FIRES AND WILL NEED TO DOCUMENT THEIR WALK AND

ITEM. COORDINATION AND VERIFICATION AS TO WHEN

LOCAL JURISDICTION. ALL FIRE WATCH COSTS

FIRE WATCH SUBJECT TO THE REQUIREMENTS OF THE

. THE CONTRACTOR IS RESPONSIBLE FOR THE

THE PLACARDS FOR EACH UL PERFORMANCE BASE DESIGNS. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION, PLACARDS THAT ARE INSTALLED WITH INFORMATION WRITTEN PERMANENT MARKER WILL NOT BE ACCEPTED.

GENERAL UNDERGROUND

. ALL UNDERGROUND IS SHOWN FOR HYDRAULIC REFERENCE ONLY. 2. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS IF AVAILABLE. NO NEW WORK UNLESS OTHERWISE NOTED

AND LIMITATIONS MAY BE MORE STRINGENT THAN

GENERAL NOTES CONT.

NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS NOR SHALL THEY BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK, THE CONSTRUCTION PROCEDURES FOLLOWED BY THE CONTRACTOR, SUBCONTRACTORS, THEIR RESPECTIVE EMPLOYEES OR ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEERING FIRM'S EMPLOYEES. 3. CONTRACTOR MUST REVIEW ALL CONSTRUCTION DOCUMENTS PRIOR TO BID. SHOULD MODIFICATIONS TO THESE PLANS BECOME NECESSARY TO PROPERLY COORDINATE THE SYSTEM WITH ALL OTHER TRADES. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL OF THE CHANGES FROM BOTH THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S DESIGNATED REVIEW CONSULTANT IN ADDITION TO OBTAINING THE NECESSARY APPROVALS, THE CONTRACTOR MUST MAKE NOTE OF ANY FIELD OR

COORDINATION CHANGES ON THE INSTALLATION

. THE FIRE PROTECTION ENGINEER OF RECORD SHALL

DRAWINGS, AND THEN MUST PROVIDE A SET OF AS-BUILT DRAWINGS ONCE COMPLETE. CONTRACTOR MUST VERIFY ALL DROP DOWN LOCATIONS AT EXTERIOR WALLS WITH THE PROJECT MANAGER PRIOR TO INSTALLATION. 10. ALL PIPING MUST BE COORDINATED AROUND FRAMING MEMBERS AND PROPERLY INSTALLED INSIDE THE BAR JOIST. . CONTRACTOR SHALL ROUTE PIPING AROUND ALL

DETERMINE THE FULL EXTENT OF THE EXISTING FIRE OBSTRUCTIONS AND PROVIDE SPRINKLER PROTECTION UNDER OBSTRUCTIONS, AS DETAILED IN NFPA 13 STANDARDS AS PART OF THE FIELD COORDINATION AT NO ADDITIONAL COST TO OWNER. 12. ALL SPRINKLER DEFLECTOR DISTANCE REQUIREMENTS SHALL BE IN ACCORDANCE TO THE STANDARDS OUTLINED IN NFPA 13.

13. ALL PIPING PASSING THROUGH CMU WALLS SHALL BE INSTALLED WITH ONE INCH CLEARANCE ON ALL SIDES. (CORE DIAMETER EQUAL TO PIPE +2"). ALL CORES SHALL BE COORDINATED WITH STRUCTURAL REINFORCING. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CORING WITH PROPER CLEARANCE AT ALL CMU WALLS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A TWO INCH CLEARANCE AROUND ALL PIPING PASSING THROUGH CONCRETE SLABS. THE SPRINKLER CONTRACTOR SHALL FILL ALL CLEARANCES WITH APPROVED MASTIC

4. PROVIDE FLUSHING CONNECTIONS IN ACCORDANCE WITH THE STANDARDS OUTLINED IN NFPA 13. . PROVIDE ALL NECESSARY OFFSETS, RISES OR DROPS IN PIPING AND AUXILIARY DRAINS REQUIRED BY BUILDING CONDITIONS. FIRE SPRINKLER PIPING AND 6. EXAMINE THE JOB CONDITIONS AND VERIFY ALL MEASUREMENTS, DISTANCES, ELEVATIONS,

CLEARANCES, ETC. . ARCHITECTURAL AND ELECTRICAL BACKGROUND INFORMATION IS SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO THE CONTRACT DOCUMENTS FOR LOCATIONS, SIZES AND QUANTITIES

OF OTHER TRADE WORK. B. SPRINKLER SPACING SHALL BE PER NFPA 13 UNLESS OTHERWISE NOTED ON PLANS AND/ OR PROTECTION CRITERIA LEGEND. 9. INTERFACE SPRINKLER SYSTEM WITH FIRE

PROTECTION SUPERVISORY SYSTEM.

0. ALL MATERIALS SHALL BE UL LISTED OR FM APPROVED. SPRINKLER PIPE SHALL BE MANUFACTURED TO STANDARDS RECOGNIZED B NFPA 13., THREADED PIPE SHALL HAVE A CORROSION RESISTANCE RATING OF 1.0 OR GREATER. CRIMP-TYPE COUPLINGS SHALL NOT BE USED. THREADABLE THINWALL PIPE WITH CORROSION FIRE PROTECTION SYSTEMS AND EQUIPMENT WHERE RESISTANCE RATING OF LESS THAN 1.0 SHALL BE USED ONLY WITH ROLL GROOVE FITTINGS.

1. IF REQUIRED, PROVIDE 24 VOLT AC, ELECTRIC BELL MODEL NO. PBA248, ELECTRIC BELL BY POTTER ELECTRIC SIGNAL OF ST. LOUIS, MISSOURI, LOCATE AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PROVIDE NEW DOUBLE POLE VANE TYPE FLOW DETECTOR, MODEL NO. VSR-F, BY POTTER ELECTRIC SIGNAL OF ST. LOUIS, MISSOURI. SET ADJUSTABLE DELAYED SIGNAL AT 30 SECONDS. MOUNT WATER FLOW INDICATORS NO HIGHER THAN 6 FEET ABOVE FINISH FLOOR.

2. ALL SPRINKLER SYSTEMS THAT ARE TO BE MODIFIED SHALL BE HYDROSTATICALLY TESTED PER NFPA 13 PRIOR TO SPRINKLER SYSTEM MODIFICATION AND SHALL BE RE-HYDROSTATICALLY TESTED AFTER COMPLETION OF WORK. REFERENCE HYDROSTATIC BOX NOTE FOR ADDITIONAL INFORMATION.

23. DO NOT HANG OR SUPPORT ANY LOADS OR MAKE ANY ATTACHMENTS TO THE METAL ROOF DECK OR JOIST BRIDGING. 24. SAMMY SCREWS ARE NOT PERMITTED 25. CEILING FLANGES ARE NOT PERMITTED.

26. PROVIDE RETAINING STRAPS ON HANGERS WHERE 27. CONTRACTOR IS TO COORDINATE FINAL SPRINKLER HEAD LOCATIONS AND PIPE ROUTING SUCH THAT THEY DO NOT INTERFERE WITH NOR RECEIVE

DAMAGE FROM THE NORMAL OPERATIONS OF THE 8. WHERE THE DESIGN IS SHOWN TO REPLACE SPRINKLERS IT IS THE CONTRACTORS

RESPONSIBILITY TO VERIFY THE SIZE OF THE EXISTING SPRINKLER FITTING PRIOR TO BID. WHEN THE DESIGN SHOW TO REPLACE PENDENT SPRINKLERS ON THE SALES FLOOR, THE CONTRACTOR IS RESPONSIBLE FOR REPLACING THE EXISTING REDUCING COUPLING IF THE SPRINKLER OUTLET THREAD IS LARGER THAN WHAT IS CURRENTLY INSTALLED. ADDITIONAL OUTLETS WILL BE REQUIRED WHEN THE DESIGN SHOWS 3/4" UPRIGHT SPRINKLERS AND THE EXISTING

INSTALLATION IS 1/2". IT IS THE RESPONSIBILITY OF

THE CONTRACTOR TO PROVIDE THE NECESSARY

WATER SUPPLY

INFORMATION

CONTACT INFORMATION FITTING(S) WHEN THE NEW SPRINKLER DIFFERS FROM THE EXISTING SPRINKLERS CURRENTLY INSTALLED.

DOCUMENTS INCLUDE JURISDICTIONAL REQUIREMENTS PROVIDED BY THE FOLLOWING CONTACTS: FIRE SPRINKLER REVIEWING AUTHORITY: DAVID DRAKE FIRE INSPECTOR/PLAN REVIEW

APPLICABLE CODES

(253) 864-4171 / ddrake@puyallupwa.gov

NFPA STANDARD: NFPA 13 <u>UL GUIDELINE:</u>
UL LLC TECHNICAL REPORT PROJECT 4788122552

<u>FIRE CODE</u>: 2021 INTERNATIONAL FIRE CODE BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE

PUMP TEST DATA

DISCHARGE SUCTION NET HEAD FLOW PSI PSI PSI TEST DATE: 07/13/2023

48 PSI 42 PSI AT 1839 GPM **RESIDUAL:** INFORMATION DERIVED FROM WATER REPORT SUPPLIED BY: J. MORGAN — TELGIAN

EFFECTIVE POINT OF WATER SUPPLY INFORMATION LEAD-IN TAP TO 12" CITY MAIN SEE ADJACENT DETAIL 1/FP1 DATE OF TEST: 04/10/24 @ 8:30 AM

FLOW TEST ELEVATION: ±445' AMSL BUILDING PAD ELEVATION: ±447' AMSL WATER SUPPLY INFORMATION IS FURTHER REDUCED PER THE FOLLOWING:

* 10% (5 PSI) SAFETY FACTOR FOR JURISDICTIONAL WATER SUPPLY TO BE USED FOR FIRE SPRINKLER

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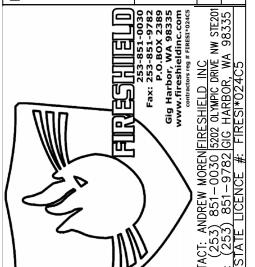
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BUILDING SPRINKLER SYSTEM(S) INVOLVED IN THIS SCOPE OF WORK SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13. MOREOVER, THE FOLLOWING TWO (2) HYDROSTATIC TESTS SHALL BE PERFORMED BY THE CONTRACTOR: 1. THE FIRST HYDROSTATIC TEST SHALL BE PERFORMED BY THE CONTRACTOR PRIOR TO START OF SPRINKLER SYSTEM SCOPE OF WORK ("PRE-SCOPE HYDRO TEST "); AND

2. THE SECOND HYDROSTATIC TEST SHALL BE PERFORMED BY THE CONTRACTOR AFTER COMPLETION OF CONTRACT SCOPE OF WORK ("POST-SCOPE HYDRO TEST ") THE HYDROSTATIC TESTS SHALL BE COMPLETED AS FOLLOWS:

HYDROSTATIC TEST

WHERE EXISTING SYSTEM AND/OR NEW WORK COMPONENTS CANNOT BE ISOLATED IN ACCORDANCE WITH NFPA 13, TEST SYSTEM TO NORMAL WORKING PRESSURE (140 PSI). WHERE NEW WORK/SYSTEM CAN BE ISOLATED, TEST SYSTEM TO 200 PSI. ALL HYDROSTATIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR DAMAGE TO CONTENTS OR BUILDING OCCURRING DURING THE

PRE-SCOPE HYDRO TEST " PROVIDED ALL COMMERCIALLY REASONABLE MEASURES NECESSARY OR PRUDENT TO PROTECT CONTENTS OR BUILDING COMPONENTS WERE FOLLOWED FOR APPROPRIATE TEST PROCESS. CONTRACTO SHALL COMPLETE REPAIRS AND / OR REMEDIATION TO EXISTING SYSTEMS REQUIRED AS A RESULT OF DEFICIENCIES IDENTIFIED DURING PRE-SCOPE TESTING AS AN ADDITIONAL SERVICE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DAMAGE TO CONTENTS OR BUILDING OCCURRING DURING THE "POST-SCOPE HYDRO TEST" PROCEDURE ORIGINATING IN EXISTING OR NEW SYSTEM COMPONENTS. CONTRACTOR SHALL COMPLETE REPAIRS AND / OR REMEDIATION TO EXISTING SYSTEMS REQUIRED AS A RESULT OF DEFICIENCIES IDENTIFIED DURING POST-SCOPE TESTING AT NO ADDITIONAL COST TO WALMART. WHEN CONDUCTING HYDROSTATIC TESTING ON EXISTING SYSTEMS AS REQUIRED BY NFPA 13, CONTRACTOR SHALL TAKE SUCH ACTIONS AS MAY BE NECESSARY TO REDUCE POTENTIAL DAMAGE TO CONTENTS AND BUILDING DURING EXECUTION OF SCOPE OF WORK, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

1. USE OF LOW CAPACITY PRESSURE PUMP TO INCREASE PRESSURE IN SYSTEM AT INCREMENTAL RATE TO LIMIT SURGES IN SYSTEM; AND 2. PROVISION OF WORK STAFF DEDICATED TO MONITORING THE IMPACTED SYSTEM AREA DURING PRESSURE APPLICATION AND DURING HYDROSTATIC TEST FOR SIGNS OF SYSTEM COMPROMISE (MINIMUM 1 PERSON /

20,000 SQ. FT. AREA); AND $oldsymbol{\mathsf{s}}$. MAINTAINING DEDICATED PERSON AT SYSTEM CONTROL VALVE IN CONSTANT COMMUNICATION WITH SYSTEM MONITORS TO SHUT OFF TEST PUMP AND DRAIN SYSTEM IN EVENT OF SYSTEM FAILURE OR LEAK; AND 4. PROVISION OF READY SUPPLIES PRIOR TO START OF TESTING TO FACILITATE DAMAGE MINIMIZATION IN EVENT OF SYSTEM FAILURE (TARPS / PLASTIC SHEETING, WET / DRY VACUUM ETC.); AND 5. COVERING HIGH VALUE EQUIPMENT PRIOR TO TESTING; AND

6. LIMITATION OF TESTING TO ONE SYSTEM AT A TIME; AND

7. TESTING OF SYSTEMS DURING OFF HOURS / OVERNIGHT.

PIPE DIMENSION TABLES REFER TO HYDRAULIC CALCULATIONS FOR PIPE TYPE <u>SCHEDULE 40</u> SCHEDULE 1 NOMINAL DIAMETER DIAMETER

1.049" 1 1/4" 1.380" 1 1/2" 1.682" 2.157" 2 1/2" 2.635" 3.260" 4.260"

SYMBOL LEGEND **DESCRIPTION** SYMBOL EXISTING BRANCH LINE TO REMAIN EXISTING MAIN LINE TO REMAIN — — DEMO PIPING \boxtimes **DEMO SPRINKLERS** EXISTING OVERHEAD SPRINKLERS 0 EXISTING PENDENT SPRINKLERS BRANCH LINE TO BE INSTALLED MAIN LINE TO BE INSTALLED HYDRAULIC CALCULATION AREA HYDRAULIC REFERENCE POINT

PENDENT SPRINKLER AIR RELEASE VALVE

PLUG EXISTING OUTLET

SHEET INDEX SHEET NAME NUMBER

FP2 FIRE SPRINKLER DEMOLITION PLAN NORTH FIRE SPRINKLER DEMOLITION PLAN SOUTH OVERALL FIRE SPRINKLER UPGRADE PLAN FP5 FIRE SPRINKLER UPGRADE PLAN NORTH

FP6

FP7

-EXISTING 80 PSI @ 150P GPM DIESEL FIRE PUMP

> RISER PLAN SHOWN FOR REFERENCE ONLY. NO NEW WORK UNLESS NOTED OTHERWISE

2" TEST AND DRAIN TYP.-

6.357"

8.249"

OUTLET WITH ARM-OVER TO NEW PENDENT SPRINKLER

NEW DRILLED 1" MECHANICAL TEE WITH ARM-OVER TO NEW

FIRE SPRINKLER SITE PLAN FP1

FIRE SPRINKLER UPGRADE PLAN SOUTH FIRE SPRINKLER DETAILS

OWNER FURNISHED SPRINKLERS AND

YMBOL|SIZE |K-FACTOR | FINISH | MFR | MAKE | S.I.N. | TEMP | STYLE | WHITE | TYCO | K17-231 | TY7258 | 200 | PENDENT | 938 16.8 | BRASS | TYCO | TY7158 | TY7158 | 155 | UPRIGHT | 275 | 6 16.8 | BRASS | TYCO | TY7158 | TY7158 | 200 | UPRIGHT | BRASS TYCO TY7158 TY7158 286 UPRIGHT 11.2 | BRASS TYCO | ELO-231 | TY5131 | 155 | UPRIGHT | 350 | 12 ´ FRB

* 3/4" 11.2 BRASS TYCO ELO-231 TY5131 200 UPRIGHT

A FIRE WATCH MAY BE NEEDED SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL REQUEST THE STORE MANAGER TO NOTIFY ALARM CENTRAL OF THE SYSTEM(S) BEING SHUT OFF FOR WORK AND THE DURATION OF THE SHUT OFF. . THE GENERAL CONTRACTOR SHALL CALL DIRECT TO THE FIRE DEPARTMENT AND ADVISE THAT THE FIRE ALARM SYSTEM IS IN TEST. . AT THE END OF EACH NIGHTS WORK, THE GENERAL

IS COMPLETE.

BRASS TYCO ELO-231 FRB TY5131 155 UPRIGHT 6 ON SPRIG SUBSTITUTIONS WILL NOT BE PERMITTED. REFERENCE SPECIFICATIONS APPENDIX B FOR ADDITIONAL INFORMATION.

ן FRB

WHERE SPRINKLERS ARE INSTALLED BELOW OBSTRUCTIONS (REFRIGERATION PIPING, RTUs, CABLE TRAYS, ETC.) THESE SPRINKLERS SHALL BE REPLACED WITH SPRINKLERS MATCHING THE NEW SPRINKLER'S BEING INSTALLED AT THE ROOF DECK LEVEL. * INTERMEDIATE TEMPERATURE SPRINKLERS TO BE FURNISHED BY OWNER FOR INSTALLATION

BELOW SKYLIGHTS. **HIGH TEMPERATURE SPRINKLERS TO BE FURNISHED BY OWNER FOR INSTALLATION AROUND

THE OWNER WILL FURNISH ONE (1 QTY) SPRINKLER WRENCH (TYPE 38) FOR INSTALLATION PURPOSES FOR THE TY7258 WHEN INSTALLING WITH STYLE 30 ESCUTCHEONS. THE CONTRACTOR IS REQUIRED TO LEAVE THE OWNER FURNISHED SPRINKLER WRENCH INSIDE THI SPARE HEAD CABINET AFTER INSTALLATION HAS BEEN COMPLETED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE TO OWNER FURNISHED SPRINKLERS DURING INSTALLATION. TO REPLACE DAMAGED SPRINKLERS CONTACT HAINES, JONES, CADBURY 1-800-459-7099.

THE OWNER WILL FURNISH ADDITIONAL (OWNER-FURNISHED) SPRINKLERS FOR THE SPARES CABINET. INSTALL SPARE SPRINKLER QUANTITY INDICATED ON CONTRACT DOCUMENTS PRIOR TO FIRE PROTECTION CONSULTANT SITE OBSERVATION.

AUTOMATIC FIRE SPRINKLER LEGEND NOTE: NO O-RING SPRINKLERS ARE TO BE USED ON THIS PROJECT K-FAC TOTAL TEMP MODEL S.I.N. | FINISH ESC TYCO TY-FRB TY323 WHITE RECESSED 155° TYCO TY-FRB 155° TY323 WHITE 401 5.6 TYCO PEND NONE

** INDICATES MATCH EXISTING

TYCO

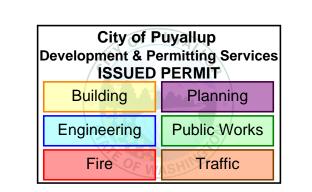
-WATER FLOW SWITCH.

-WALL POST INDICATING

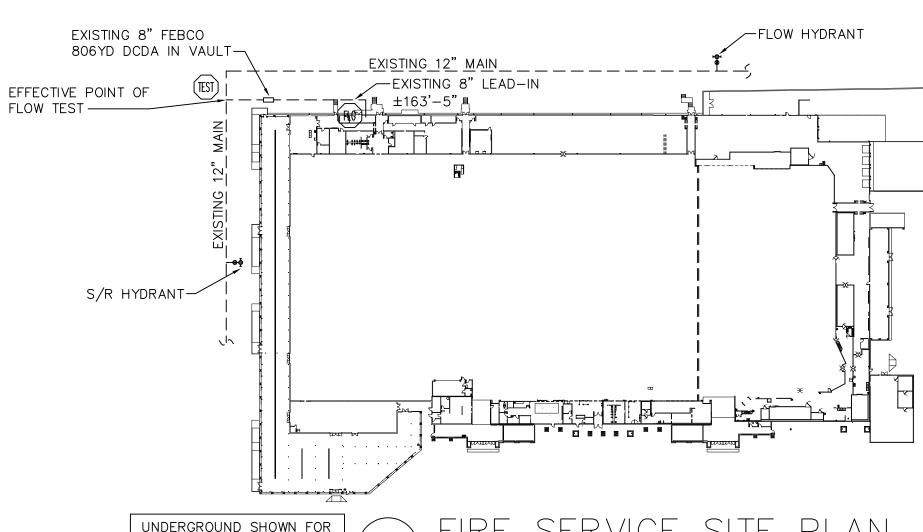
VALVE. TYP.

PEND

WHERE SPRINKLERS ARE CALLED OUT TO "MATCH EXISTING," CONTRACTOR SHALL PROVIDE SPRINKLERS MANUFACTURED BY TYCO, WHICH ARE EQUIVALENT TO THE EXISTING TO REMAIN SPRINKLERS. SUBSTITUTIONS WILL NOT BE PERMITTED.



GENERAL CONTRACTOR SHALL



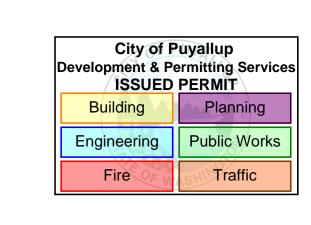
TRADES, MATERIALS, REPAIRS, ETC. TO PROVIDE ACCESS ABOVE THE EXISTING CEILINGS.

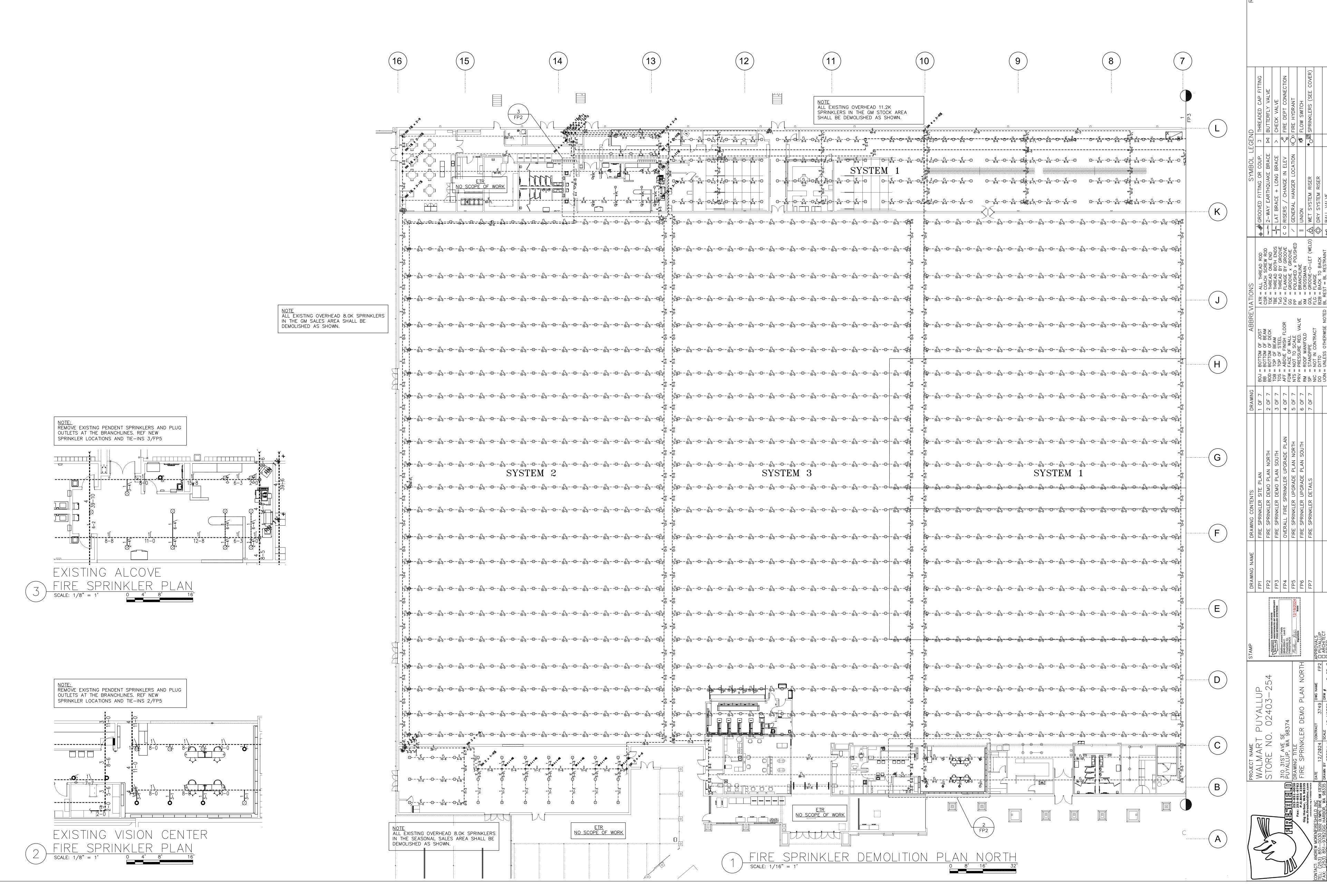
> REFERENCE ONLY. NO NEW WORK. SCALE: 1" = 100'

PUMP RATING: 80 PSI @ 1500 GPM PUMP TYPE: DIESEL

DESIGN AT EFFECTIVE POINT: 43 PSI 37 PSI AT 1839 GPM

APPRO D PUY D ARC





A BRANCHL

BRANCHL

COACH S

THREAD

T ATR CSR CSR TOE TXG FXG GG PP BL XM GOL FLG B2B BOJ = BOTTOM OF A BB = BOTTOM OF E BOD = BOTTOM OF I TOB = TOP OF BEAN TOS = TOP OF STEE AFF = ABOVE FINISH FOW = FACE OF WAI NTS = NOT TO SCAI PRV = PRESSURE RE RM = ROOF MANIFC SP = STANDPIPE NIC = NOT IN CONT DO = DITTO DRAW 1 OF 2 OF 3 OF 4 OF 5 OF 6 OF 7 OF

MAP

DRAWIN

ENERGY AND STATE

BE 31, 24 FIRE SPRINKLER SYSTEMS

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ART PUYALLUP

= NO. 02403-254

= AVE SE
P, WA 98374

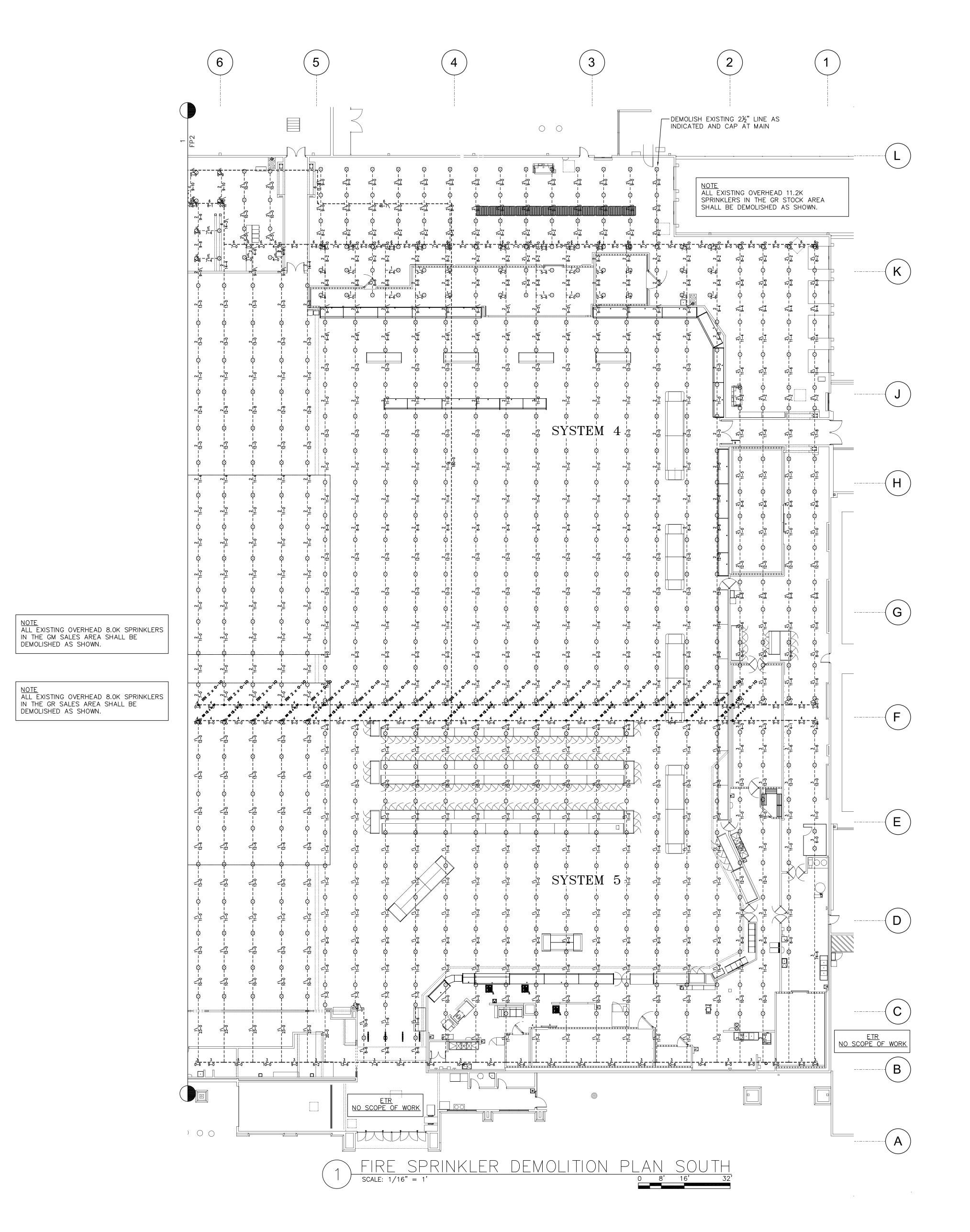
TITLE

PRINKLER DEMO PLAN SOUTH

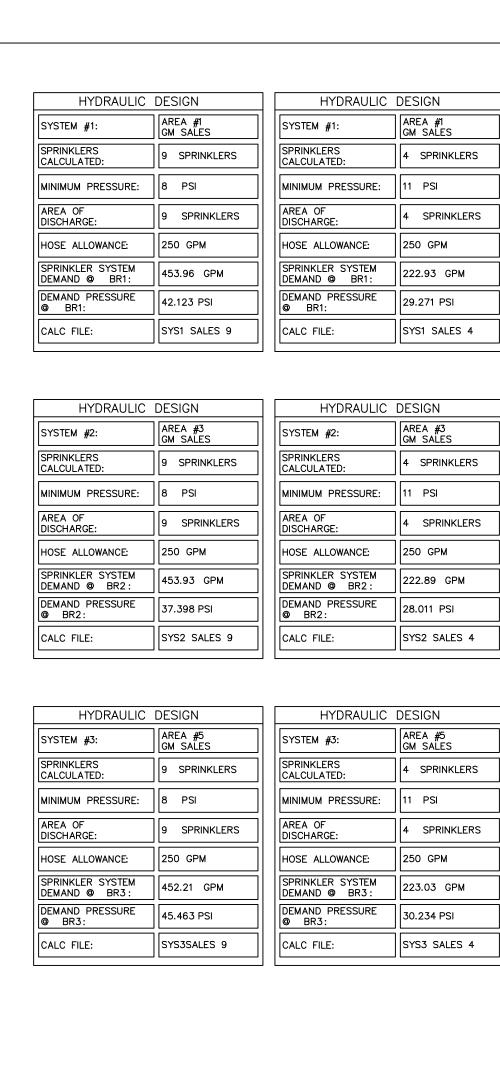
| 2024 | CONTRACT | 3749 | DWG NAME | FP3 | DPU

PROJECT NAME
WALMART PUYALLI
STORE NO. 02403BUYALLUP, WA 98374
PUYALLUP, WA 98374
FIRE SPRINKLER DEMO PL

PROJECT NAME
WALMART
STORE N(



Development &	of Puyallup & Permitting Services JED PERMIT Planning	
PROTECTION CRITERIA LEGEND Engineerin	Public Works	
DISCHARCE PRESSURE ADMAND(g) PRESSURE CLASS INCATION PRACTING SPRINKLERS - DESIGN ARRA) ALLOWANCE (GPM) SPACING (GPM) PRACTING SPRINKLERS - DESIGN ARRA) ALLOWANCE (GPM) SPACING (GPM) SP	Traffic	
## FOW PACK PILE FOW PACK 16	ADED (CE M BUTTERFLY VALVE CE CHECK VALVE V & FIRE DEPT CONNECTION
	SYMBO GROOVED FITTING OR COU	+ + CNOUNCY CONTROL STANDING BRACT LAT BRACE + LONG BRACCT CORSERS / CHANGE IN ELE
	EVIATIONS ATR = ALL THREAD ROD CSR = COACH SCREW ROD	AIK = ALL IDNEAN NOCE CSR = COACH SCREW ROD TOE = THREAD ONE END TBE = THREAD BOTH ENDS TxG = THREAD BY GROOVE FxG = FLANGE BY GROOVE
	ABBRI BOJ = BOTTOM OF JOIST BB = BOTTOM OF BEAM	BOJ = BOTIOM OF JOIST BB = BOTTOM OF BEAM BOD = BOTTOM OF DECK TOB = TOP OF BEAM TOS = TOP OF STEEL AFF = ABOVE FINISH FLOOR FOW = FACE OF WALL
	AAWING 7 7 P.	1 OF / 2 OF 7 3 OF 7 PLAN 4 OF 7
	CONTENTS INKLER SITE PLAN	INKLER DEMO PLAN NORTH INKLER DEMO PLAN SOUTH FIRE SPRINKLER UPGRADE
	AWING NAME DRAWING T FIRE SPR	1 2 FIRE SPR 3 FIRE SPR 4 OVERALL
	E)	INDUSTRIES OF STATE C 31, 24 PINE OPPUINTER OF COMPETER OF C 30, 24 PINE OPPUINTER OF COMPETER OF SOCALC Level 3 Shock C Level 3 Shock C STATE OF COMPETER OF STROGGLO C STATE OF COMPETER OF FROM THE OPPUINTER OF COMPETER OF FROM THE OPPUINTER OF COMPETER OF FROM THE OPPUINTER OF COMPETER OF STROGGLO COMPETER OF COMPETE
	STAN STAN	403-254
	PROJECT NAME WALMART PUY	STORE NO. 02 310 31ST AVE SE TIM PUYALLUP, WA 98374
OVERALL FIRE SPRINKLER UPGRADE PLAN SCALE: 1" = 20" OVERALL FIRE SPRINKLER UPGRADE PLAN OUT 10 20 40		



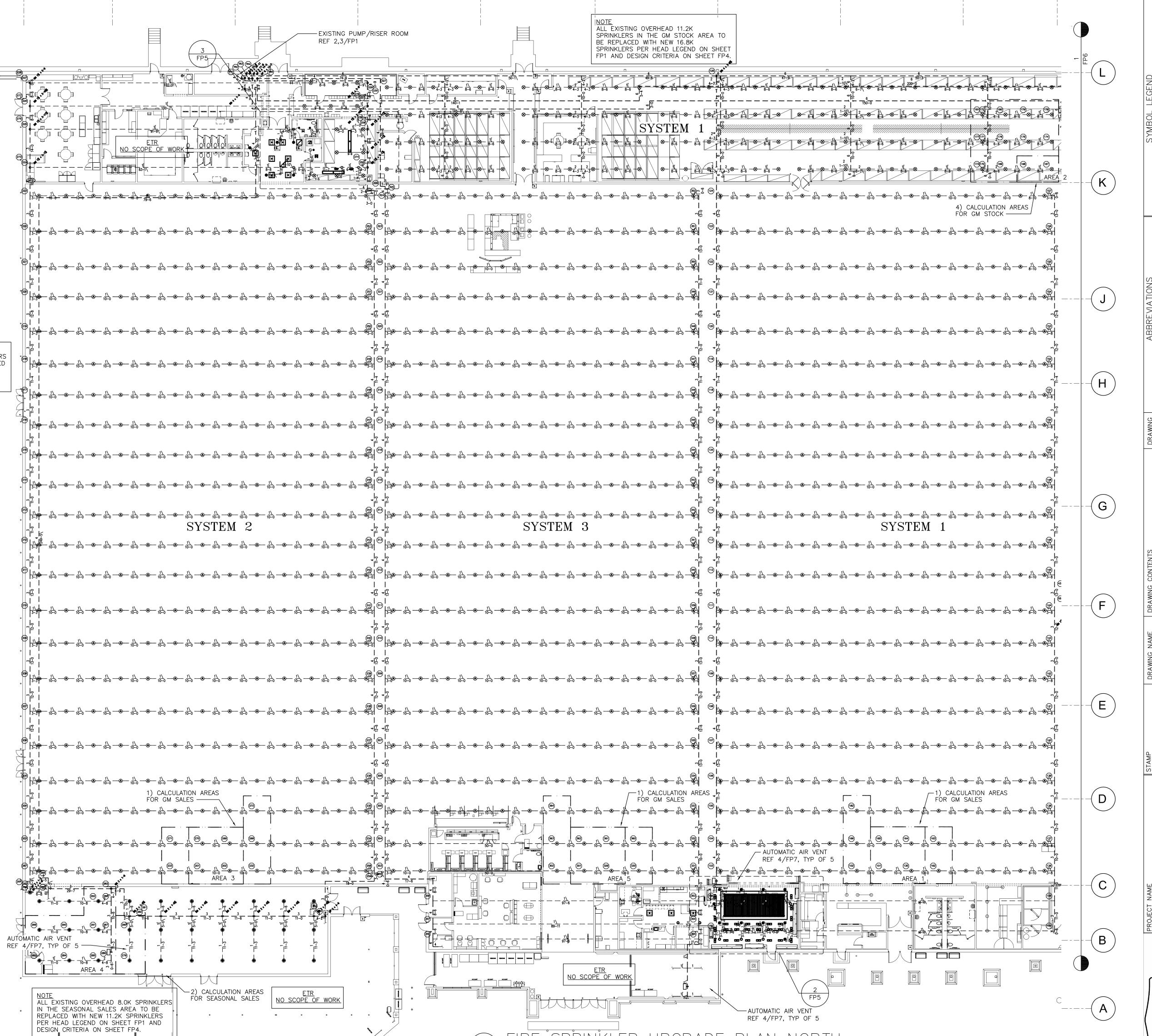
SPRINKLERS CALCULATED:	12 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	7 PSI	MINIMUM PRESSURE:	12 PSI
AREA OF DISCHARGE:	12 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR1:	628.59 GPM	SPRINKLER SYSTEM DEMAND @ BR1:	121.28 GPM
DEMAND PRESSURE BR1:	24.219 PSI	DEMAND PRESSURE BR1:	26.470 PSI
CALC FILE:	SYS1 STOCK 12	CALC FILE:	SYS1 STOCK 2
HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #2:	AREA #4 SEASONAL SALES	SYSTEM #2:	AREA #4 SEASONAL SALES
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	18 PSI	MINIMUM PRESSURE:	30 PSI

SYSTEM #1:

HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #2:	AREA #4 SEASONAL SALES	SYSTEM #2:	AREA #4 SEASONAL SALES
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	18 PSI	MINIMUM PRESSURE:	30 PSI
AREA OF DISCHARGE:	9 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR2:	483.09 GPM	SPRINKLER SYSTEM DEMAND @ BR2:	133.67 GPM
DEMAND PRESSURE BR2:	54.233 PSI	DEMAND PRESSURE BR2:	65.037 PSI
CALC FILE:	SYS2 SEASONAL 9	CALC FILE:	SYS2 SEASONAL 2

NOTE
ALL EXISTING OVERHEAD 8.0K SPRINKLERS
IN THE GM SALES AREA TO BE REPLACED

WITH NEW 16.8K SPRINKLERS PER HEAD LEGEND ON SHEET FP1 AND DESIGN CRITERIA ON SHEET FP4.



15	14	13	12	11)	10	9	8	7	VER)
	FP5 TR3 TR0	EXISTING PUMP/RISER ROOM REF 2,3/FP1	6 50-1\	NOTE ALL EXISTING OVER SPRINKLERS IN TH BE REPLACED WITH SPRINKLERS PER FF1 AND DESIGN (RHEAD 11.2K E GM STOCK AREA TO H NEW 16.8K HEAD LEGEND ON SHEET CRITERIA ON SHEET FP4.	6	6	- L 9d L	THREADED CAP FITTIN BUTTERFLY VALVE CHECK VALVE FIRE DEPT CONNECTIO FIRE HYDRANT FLOW SWITCH SPRINKLERS (SEE COV
NO SCOPE OF		8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6 8-6	200-6 8-6 8-6 2-0 6-6 8	1 1 8-6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SYMBOL LEGENTING OR COUP. 1 HQUAKE BRACE MAINGE IN ELEV SANGE IN ELEV SA
		 4 ¹ / ₀ 4 ¹ / ₀					4) CALCULATION AF FOR GM STOCK—	AREA 2	GROOVED FITT 2-WAY EARTH 2-WAY EARTH LAT BRACE + C O RISERS / CH, C O RISERS / CH, D NION D) WET SYSTEM D) WET SYSTEM HO DRY SYSTEM HO BALL VALVE
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	SYSTEM 2	_	$-\frac{1}{10-0} - \underbrace{1}{10-0} - $			$- \underbrace{\bullet}_{10-0} \xrightarrow{1 \setminus 1}_{10-0} - \underbrace{\bullet}_{10-0} \xrightarrow{1 \setminus 1}_{10-0} - \underbrace{\bullet}_{10-0} \xrightarrow{1 \setminus 1}_{10-0} - \underbrace{\bullet}_{10-0} - \underbrace{\bullet}_{10-0}$			WING CONTENTS SPRINKLER SITE PLAN SPRINKLER DEMO PLA SPRINKLER DEMO PLA SALL FIRE SPRINKLER U SPRINKLER UPGRADE SPRINKLER UPGRADE SPRINKLER DETAILS
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280 280 280 280 280 280 280 280 280 280				89-11				B	PROJECT N/ WALM/ STORE 310 31ST, BYALLUP, BYALLU
AREA 4 " STING OVERHEAD 8.0K SPRINKLE SEASONAL SALES AREA TO BE ED WITH NEW 11.2K SPRINKLERS	2) CALCULATION AREAS FOR SEASONAL SALES NO SCO	ETR PE OF WORK	NEGATI NE	NO SCOPE OF WORK	AUTOMA REF 4/	TIC AIR VENT FP7, TYP OF 5		C	Gig Harbourstrees W MOREN FIRESHIELD 1 - 0030 5202 0.1 MRDC 11 - 9782 GIG HARBOR, 11 -

City of Puyallup

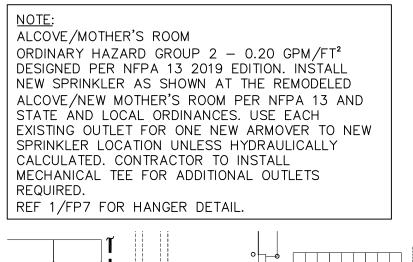
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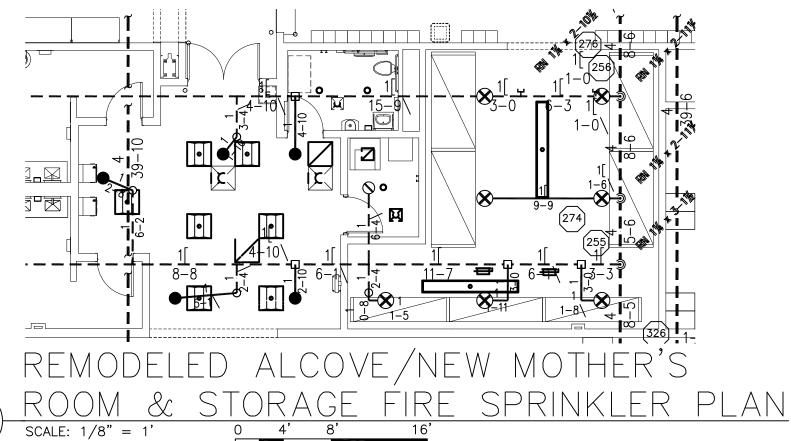
evelopment & Permitting Services

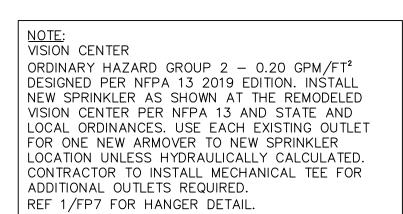
Public Works

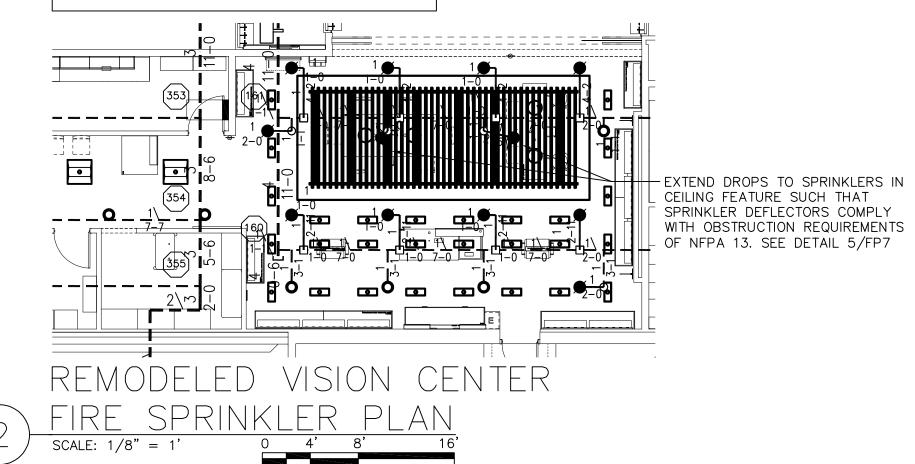
Traffic

SYSTEM #3: AREA #5 GM SALES SPRINKLERS CALCULATED: MINIMUM PRESSURE: B PSI AREA OF DISCHARGE: HOSE ALLOWANCE: AREA #5 GM SALES SYSTEM #3: SYSTEM #3: SPRINKLERS CALCULATED: 4 SPRINKLERS CALCULATED: MINIMUM PRESSURE: 11 PSI AREA OF DISCHARGE: HOSE ALLOWANCE: 250 GPM AREA #5 GM SALES SPRINKLERS CALCULATED: 4 SPRINKLERS LHOSE ALLOWANCE: 4 SPRINKLERS LHOSE ALLOWANCE: 250 GPM
CALCULATED: 4 SPRINKLERS MINIMUM PRESSURE: 8 PSI AREA OF DISCHARGE: 9 SPRINKLERS MINIMUM PRESSURE: 11 PSI AREA OF DISCHARGE: 4 SPRINKLERS
AREA OF DISCHARGE: 9 SPRINKLERS 0 DISCHARGE: 4 SPRINKLE
DISCHARGE: 9 SPRINKLERS DISCHARGE: 4 SPRINKLER
HOSE ALLOWANCE: 250 CPM HOSE ALLOWANCE: 250 CPM
TIOSE ALLOWANCE 250 OF IM
SPRINKLER SYSTEM DEMAND @ BR3: 452.21 GPM DEMAND @ BR3: 223.03 GPM
DEMAND PRESSURE @ BR3: DEMAND PRESSURE @ BR3: 30.234 PSI
CALC FILE: SYS3SALES 9 CALC FILE: SYS3 SALES









HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #4:	AREA #6 GR RECEIVING	SYSTEM #4:	AREA #6 GR RECEIVING
SPRINKLERS CALCULATED:	13 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	7 PSI	MINIMUM PRESSURE:	12 PSI
AREA OF DISCHARGE:	12 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR4:	658.8 GPM	SPRINKLER SYSTEM DEMAND @ BR4:	118.69 GPM
DEMAND PRESSURE BR4:	26.134 PSI	DEMAND PRESSURE BR4:	26.032 PSI
CALC FILE:	SYS4 GR REC 12+1	CALC FILE:	SYS4 GR REC 2

HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #4:	AREA #7 GR STOCK	SYSTEM #4:	AREA #7 GR STOCK
SPRINKLERS CALCULATED:	8 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	21 PSI	MINIMUM PRESSURE:	30 PSI
AREA OF DISCHARGE:	8 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR4:	411.32 GPM	SPRINKLER SYSTEM DEMAND @ BR4:	122.74 GPM
DEMAND PRESSURE BR4:	38.871 PSI	DEMAND PRESSURE BR4:	44.668 PSI
CALC FILE:	SYS4 GR STOCK 8	CALC FILE:	SYS4 GR STOCK

HYDRAULIC DESIGN		HYDRAULIC DESIGN		
SYSTEM #4:	AREA #8 GM SALES	SYSTEM #4:	AREA #8 GM SALES	
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS	
MINIMUM PRESSURE:	8 PSI	MINIMUM PRESSURE:	11 PSI	
AREA OF DISCHARGE:	9 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS	
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM	
SPRINKLER SYSTEM DEMAND @ BR4:	439.50 GPM	SPRINKLER SYSTEM DEMAND @ BR4:	223.25 GPM	
DEMAND PRESSURE BR4:	28.530 PSI	DEMAND PRESSURE BR4:	27.589 PSI	
CALC FILE:	SYS4 GM SALES 9	CALC FILE:	SYS4 GM SALES 4	

HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #4:	AREA #9 GR SALES	SYSTEM #4:	AREA #9 GR SALES
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	18 PSI	MINIMUM PRESSURE:	30 PSI
AREA OF DISCHARGE:	9 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR4:	435.61 GPM	SPRINKLER SYSTEM DEMAND @ BR4:	122.75 GPM
DEMAND PRESSURE BR4:	34.727 PSI	DEMAND PRESSURE BR4:	40.062 PSI
CALC FILE:	SYS4 GR SALES 9	CALC FILE:	SYS4 GR SALES 2

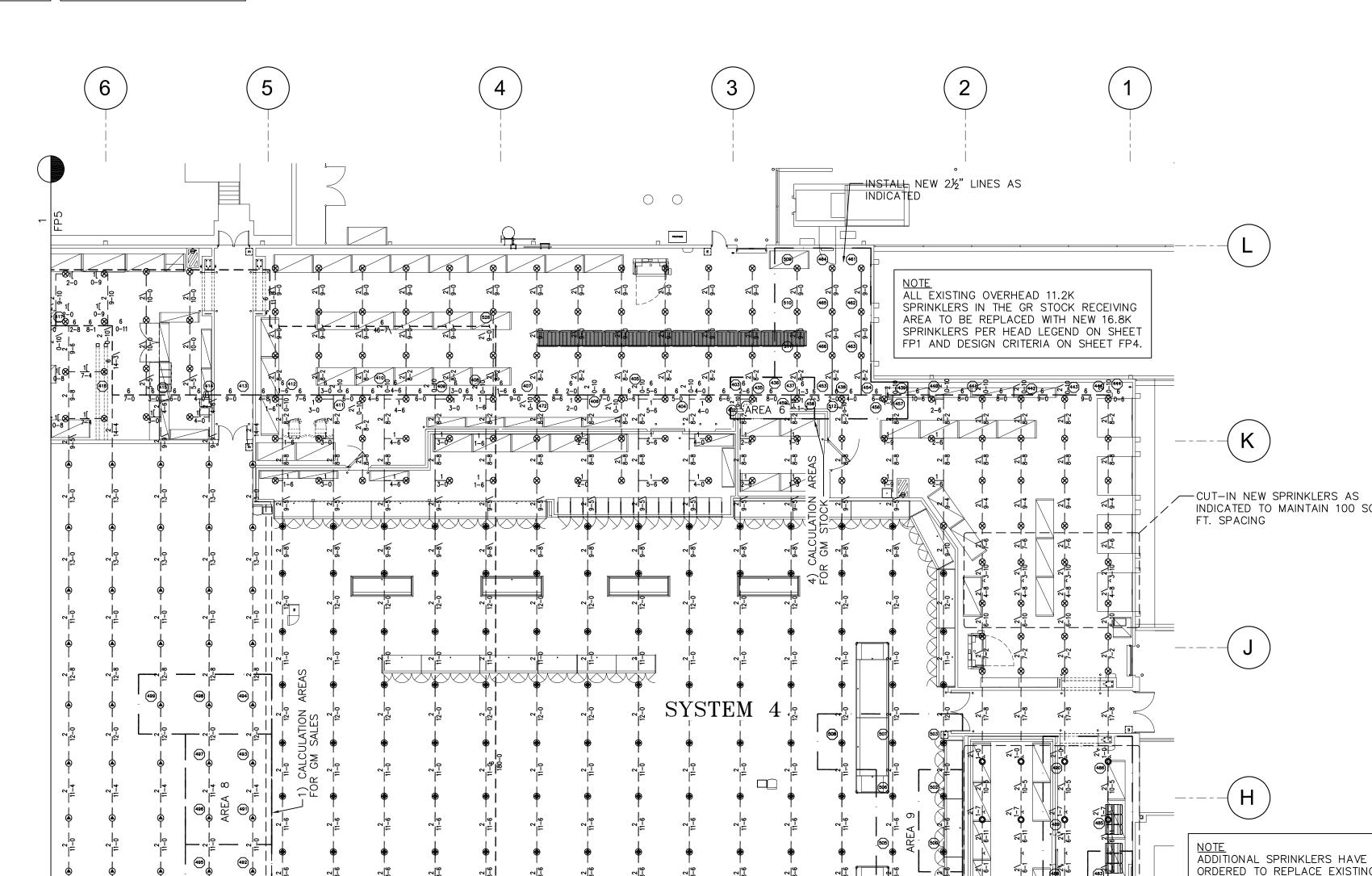
City of Puyallup Development & Permitting Services ISSUED PERMIT					
Building	Planning				
Engineering	Public Works				
Fire OF W	Traffic				

ADDITIONAL SPRINKLER INCLUDED IN REMOTE AREA PER NFPA 13 SECTION 24.1.8.2

HIDRAULIC L	DESIGN		HYDRAULIC	DESIGN
SYSTEM #5:	AREA #10 GR STOCK	SY	STEM #5:	AREA #10 GR STOCK
SPRINKLERS CALCULATED:	9 SPRINKLERS		RINKLERS LCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	21 PSI	MIN	IIMUM PRESSURE:	30 PSI
AREA OF DISCHARGE:	8 SPRINKLERS		EA OF CHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	НО	SE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR5:	463.71 GPM		RINKLER SYSTEM MAND @ BR5:	122.72 GPM
DEMAND PRESSURE BR5:	42.836 PSI	DEI @	MAND PRESSURE BR5:	44.858 PSI
CALC FILE:	SYS5 GR STOCK 8+1	CA	LC FILE:	SYS5 GR STOCK 2

HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #5:	AREA #11 GM SALES	SYSTEM #5:	AREA #11 GM SALES
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	4 SPRINKLERS
MINIMUM PRESSURE:	8 PSI	MINIMUM PRESSURE:	11 PSI
AREA OF DISCHARGE:	9 SPRINKLERS	AREA OF DISCHARGE:	4 SPRINKLER
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR5:	453.09 GPM	SPRINKLER SYSTEM DEMAND @ BR5:	223.31 GPM
DEMAND PRESSURE BR5:	41.073 PSI	DEMAND PRESSURE BR5:	33.325 PSI
CALC FILE:	SYS5 GM SALES 9	CALC FILE:	SYS5 GM SALE

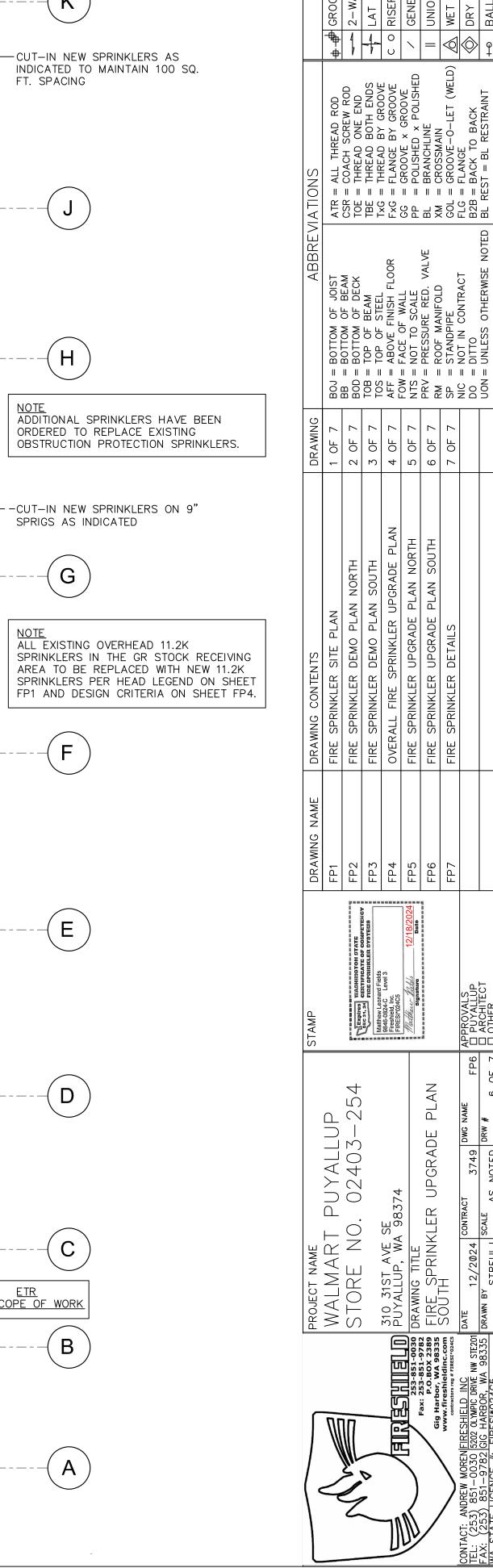
HYDRAULIC	DESIGN	HYDRAULIC	DESIGN
SYSTEM #5:	AREA #12 GR SALES	SYSTEM #5:	AREA #12 GR SALES
SPRINKLERS CALCULATED:	9 SPRINKLERS	SPRINKLERS CALCULATED:	2 SPRINKLERS
MINIMUM PRESSURE:	18 PSI	MINIMUM PRESSURE:	30 PSI
AREA OF DISCHARGE:	9 SPRINKLERS	AREA OF DISCHARGE:	2 SPRINKLERS
HOSE ALLOWANCE:	250 GPM	HOSE ALLOWANCE:	250 GPM
SPRINKLER SYSTEM DEMAND @ BR5:	446.01 GPM	SPRINKLER SYSTEM DEMAND @ BR5:	122.75 GPM
DEMAND PRESSURE BR5:	46.946 PSI	DEMAND PRESSURE BR5:	45.222 PSI
CALC FILE:	SYS5 GR SALES 9	CALC FILE:	SYS5 GR SALES 2



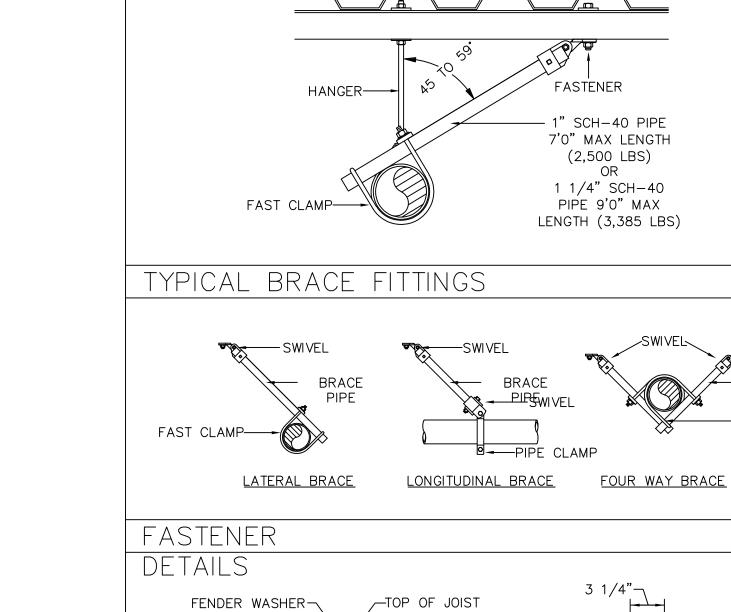
NOTE
ALL EXISTING OVERHEAD 8.0K SPRINKLERS
IN THE GM SALES AREA TO BE REPLACED
WITH NEW 16.8K SPRINKLERS PER HEAD
LEGEND ON SHEET FP1 AND DESIGN
CRITERIA ON SHEET FP4.

NOTE
ALL EXISTING OVERHEAD 8.0K SPRINKLERS IN THE GR SALES AREA TO BE REPLACED WITH NEW 11.2K SPRINKLERS PER HEAD LEGEND ON SHEET FP1 AND DESIGN CRITERIA ON SHEET FP4.

ETR NO SCOPE OF WORK



----(G `

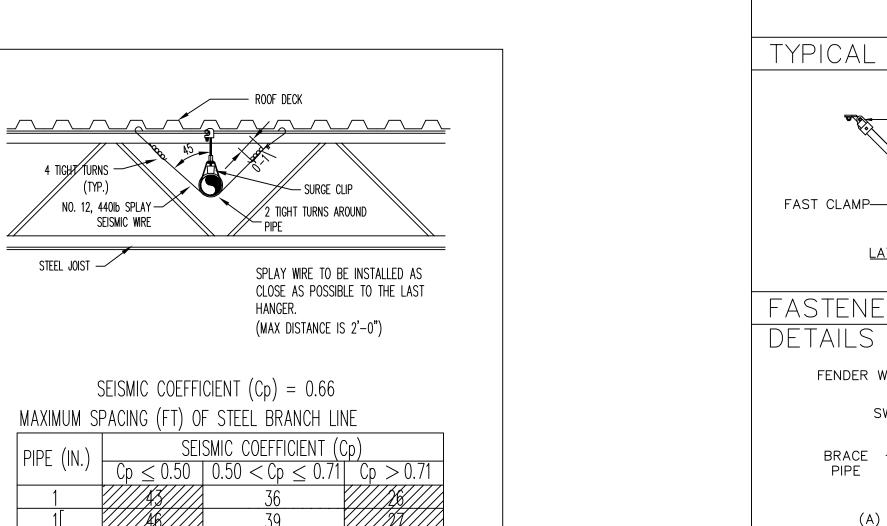


SWIVEL

(A) STEEL BAR JOIST 1/2" THRU BOLT (2050 LBS.)

TYPICAL BRACE

ARRANGEMENT



BRANCHLINE RESTRAINT

NTS



· 1" SCH-40 PIPE 7'0" MAX LENGTH

(2,500 LBS)

OR

1 1/4" SCH-40 PIPE 9'0" MAX LENGTH (3,385 LBS)

3 1/4"¬

(<u>B) CMU WALL</u> 1/2" EXPANSION SHIELD / QUICK BOLT (1782 LBS.)

FASTENER (B) ONLY ALLOWED ON FOUR WAY BRACE WHERE LOAD IS DISTRIBUTED ACROSS TWO CMU ATTACHMENTS

-SWIVEL
-BRACE PIPE

1/2" EXPANSION

QUICK BOLT (2)

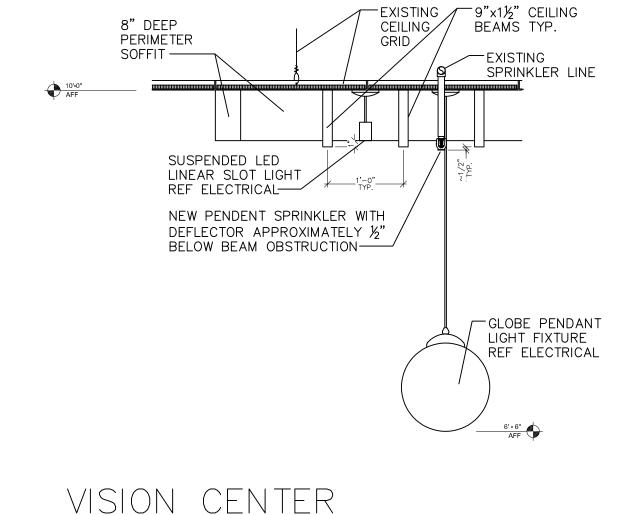
NOTE: RETAINING STRAP REQUIRED FOR BEAM CLAMPS

SHIELD OR 1/2"

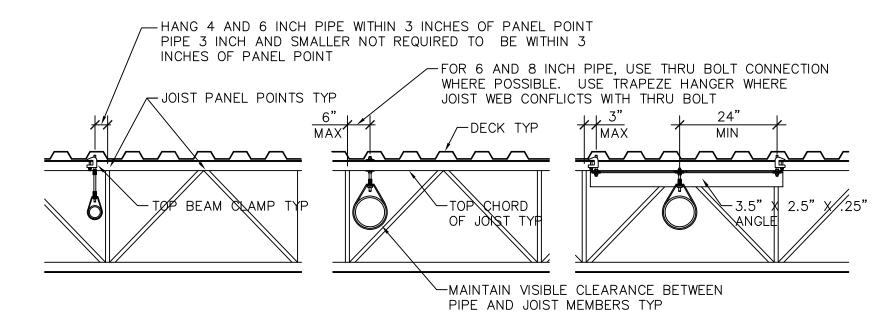
(TYPICAL)

-FAST CLAMP

(TYPICAL)







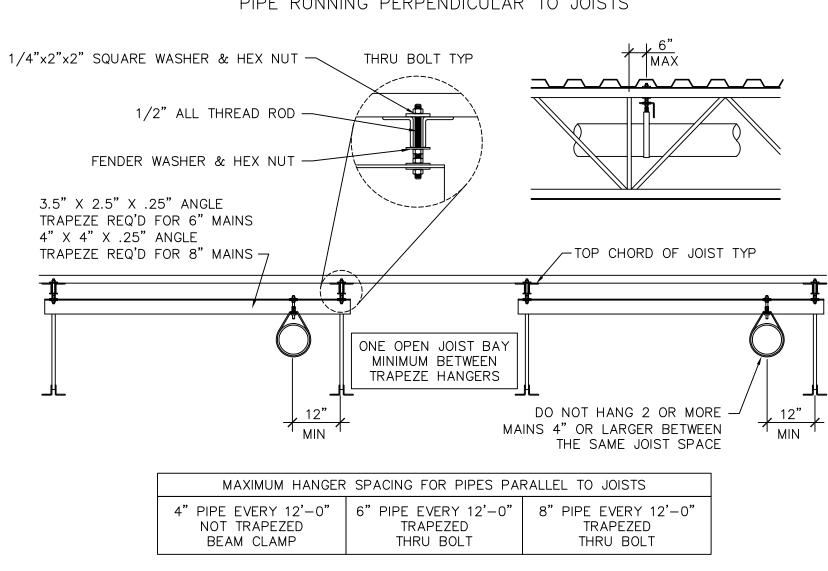
	6	INCH	AND	SMALLER	PIPE
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4,	6	AND	8	INCH	PIPE

DLNO				
	8	INCH	PIPE	

MAXIMUM HANGER SF	PACING FOR PIPING PERPE	NDICULAR TO JOISTS
BEAM CLAMP	THRU-BOLT	BEAM CLAMP
NOT TRAPEZED	NOT TRAPEZED	TRAPEZED
4" PIPE EVERY 12'-0"	4" PIPE EVERY 12'-0"	4" PIPE
EVERY OTHER JOIST	EVERY OTHER JOIST	NOT NECESSARY
6" PIPE EVERY 6'-0"	6" PIPE EVERY 12'-0"	6" PIPE
EVERY JOIST	EVERY OTHER JOIST	NOT NECESSARY
8" PIPE	8" PIPE EVERY 6'-0"	8" PIPE EVERY 6'-0"
NOT ALLOWED	EVERY JOIST	EVERY JOIST

PIPE RUNNING PERPENDICULAR TO JOISTS

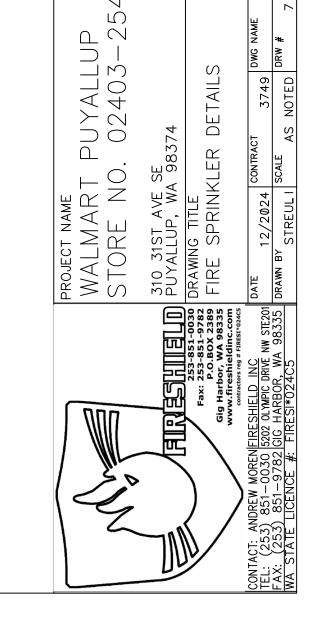


PIPE RUNNING PARALLEL TO JOIST

CONTRACTOR MAY SUBSTITUTE ANGLE IRON TRAPEZE	UTILIZE THESE HANGING METHODS FOR ALL SPRINKLER
MEMBER WITH PIPE MEMBER. SIZE PIPE MEMBER IN	PIPING. SPACE TRAPEZE HANGERS IN ACCORDANCE
ACCORDANCE WITH NFPA-13 AND MAINTAIN 12 INCH	WITH SCHEDULE. LOCATE HANGERS WITHIN 3 INCHES
MAXIMUM DEFLECTOR DISTANCE	OF JOIST PANEL POINTS U.N.O.

NOTE: DO NOT SUPPORT SPRINKLER PIPING FROM BOTTOM CHORD OF BAR JOISTS





ATR CSR TOE TYC FXG GG PP PP PP BL XM GOL FLG B2B B2B BC

DRAW 1 OF 2 OF 3 OF 4 OF 5 OF 6 OF 7 OF

| DRAN | FP1 | FP2 | FP4 | FP5 | FP6 | FP6 | FP6 | FP6 | FP7 | FP7

	ROOF DECK
SUPPLY MAIN—	1 INCH OUTLET

AUTOMATIC AIR VENT INSTALL AT HIGHEST POINT OF SYSTEM PER

MAINTENANCE.——

MANUFACTURER'S GUIDELINES AND IN AN AREA ACCESSIBLE FOR

