| , | ABBREVIATIONS | | FIRE PROTECTION LEGEND | GENERAL NOTES | FIRE PROTECTION GENERAL NOTES |
|---------------------|--|---------------------------------------|--|---|---|
| | | <u></u> FP −− | FIRE MAIN | THE WORK TO BE DONE UNDER THESE SPECIFICATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWINGS CONSISTS OF PROVIDING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWING ALL FOUR MENT MATERIALS LARGE AND REPRESENTATIONS AND THE DRAWING AND THE D | THE CONTRACT DRAWINGS ARE PERFORMANCE IN NATURE AND REQUIRE DELEGATED FIRE PROTECTION DESIGN OFFICIAL AND REQUIRED BY MEDIA AND REPORT OF THE PROTECTION DESIGN OFFICIAL TIES AND ACCESSORY OF THE PROTECTI |
| ` ' | KISTING ITEM | (E) FP | EXISTING FIRE MAIN | EQUIPMENT, MATERIALS, LABOR AND SERVICES AND PERFORMING ALL OPERATIONS TO COMPLETE THE CONSTRUCTION WORK FOR THIS PROJECT. ANY WORK NOT SPECIFICALLY COVERED BY THESE SPECIFICATIONS | SERVICE AS REQUIRED BY NFPA. ALL PIPING, SPECIALTIES AND ACCESSORIES NOT SHOWN SHALL BE PROVIDED AS REQUIRED FOR A COMPLETE AND FUNCTIONAL FIRE PROTECTION SYSTEM. CONTRACTOR SHALL SUBMIT |
| ` ' | KISTING ITEM TO BE DEMOLISHED KISTING ITEM TO BE RELOCATED | | DRAIN PIPING | OR INDICATED ON THE CONTRACT DRAWINGS, BUT NECESSARY TO COMPLETE OR PERFECT ANY PART OF THIS INSTALLATION IN A SUBSTANTIAL MANNER, SHALL BE PROVIDED WITHOUT EXTRA COST TO THE OWNER. | SPRINKLER SYSTEM DRAWINGS IDENTIFIED AS "WORKING DRAWINGS" AND PREPARED IN CONFORMANCE WITH NFPA CODES. SUBMIT ENGINEERED HYDRAULIC CALCULATIONS AND PIPING DIAGRAMS, INCLUDING FLOW TEST |
| (N) NE | EW ITEM | ├── (E) DR <i>──</i> | EXISTING DRAIN PIPING | 2. THE WORK SHALL CONFORM TO THE MORE STRINGENT OF ALL APPLICABLE CODES & REGULATIONS, UL [AND FM] | DATA, IN CONFORMANCE WITH NFPA STANDARDS, INSURANCE UNDERWRITER AND THE LOCAL AUTHORITY HAVING JURISDICTION. WORKING DRAWINGS AND CALCULATIONS SHALL HAVE STAMPED APPROVALS FROM THE FIRE |
| ` ' | KISTING ITEM TO BE RELOCATED OMPRESSED AIR | <u></u> SP | SPRINKLER PIPING | GUIDELINES, [LEED REQUIREMENTS], MANUFACTURER'S LITERATURE AND RECOMMENDATIONS, [BUILDING OPERATOR'S REQUIREMENTS], AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY | PROTECTION CONTRACTOR'S PROFESSIONAL ENGINEER OR NICET CERTIFIED DESIGNER, THE INSURANCE |
| | BOVE CEILING | (E) SP ── | EXISTING SPRINKLER PIPING | OPERATOR'S REQUIREMENTS], AND TO THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL REGULATORY AGENCIES AND AUTHORITIES HAVING JURISDICTION. | UNDERWRITER AND THE LOCAL AUTHORITY HAVING JURISDICTION PRIOR TO SUBMISSION TO THE ARCHITECT OR ENGINEER. |
| | BOVE FINISHED FLOOR | <u></u> PA | PREACTION SPRINKLER PIPING | 3. THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE EXTENT, GENERAL CHARACTER, LOCATION AND | 2. SEE ALL DRAWINGS AND SPECIFICATIONS FOR STANDPIPE AND SPRINKLER SYSTEM HYDRAULIC DESIGN CRITERIA. |
| | BOVE FINISHED GRADE BOVE PIPE | (E) PA ── | EXISTING PREACTION SPRINKLER PIPING | ARRANGEMENT OF THE WORK UNDER THIS CONTRACT. [EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE | HYDRAULIC CALCULATION NODE POINTS FOR THE MOST DEMANDING SPRINKLER PROTECTION AREA(S) AND FIRE |
| | ELOW RAISED FLOOR | } D | DRY SPRINKLER PIPING | DETERMINED IN THE FIELD AND BY THE ACTUAL BUILDING CONDITIONS.] WHERE JOB CONDITIONS REQUIRE MINOR CHANGES OR ADJUSTMENTS IN THE INDICATED LOCATIONS OR ARRANGEMENT OF THE WORK, SUCH CHANGES | DEPARTMENT HOSE VALVE CONNECTION(S) ARE INDICATED ON THE PLANS FOR SYSTEM DESIGN INFORMATION ONLY. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS FOR EACH TYPE OF |
| | ACKFLOW PREVENTER JILDING | (E) D → | EXISTING DRY SPRINKLER PIPING | SHALL BE PROVIDED WITHOUT EXTRA COST. THE CONTRACTOR SHALL RE-INSTALL EQUIPMENT THAT HAS INADEQUATE OR UNSAFE ACCESSIBILITY. | OCCUPANCY FOR EACH SPRINKLER ZONE AND SHALL PROVIDE HYDRAULIC CALCULATIONS FOR THE MOST REMOTE OR HYDRAULICALLY DEMANDING FIRE DEPARTMENT HOSE CONNECTION BASED ON THE MAXIMUM |
| | OTTTOM OF PIPE | ← CA ← | CLEAN AGENT SYSTEM PIPING | INSTALLATION OF WORK SHALL PROVIDE REASONABLE ACCESSIBILITY FOR OPERATION, INSPECTION AND | SYSTEM DEMAND AS REQUIRED PER APPLICABLE NFPA STANDARDS. WORKING DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AND APPROVED BY ALL PARTIES OUTLINED HEREIN PRIOR TO |
| | LEAN AGENT URB BOX & VALVE | (E) CA ——(| EXISTING CLEAN AGENT SYSTEM PIPING | MAINTENANCE OF EQUIPMENT AND ACCESSORIES. PROVIDE CLEARANCES REQUIRED BY MANUFACTURERS AND | PROCUREMENT OF FIRE PROTECTION EQUIPMENT, FABRICATION AND INSTALLATION OF ANY FIRE PROTECTION |
| CIP CA | AST IRON PIPE | (T) DSP —(| DRY STAND PIPE EXISTING DRY STAND PIPE | APPLICABLE CODES. ALL CEILING MOUNTED EQUIPMENT SHALL BE INSTALLED IN SUCH A MANNER THAT LIGHTS, PIPING, AND DUCTWORK DO NOT BLOCK ACCESS TO EQUIPMENT AND RELATED ACCESSORIES. | SYSTEM. |
| | EILING ONNECT | (E) DSP ── | CHECK VALVE | 5. THE TERM "FURNISH" SHALL MEAN TO OBTAIN AND SUPPLY TO THE JOB SITE. THE TERM "INSTALL" SHALL MEAN TO | 3. CONTRACTOR SHALL PROVIDE FIRE WATER SERVICE RESTRAINTS AND THRUST BLOCKS AS REQUIRED. |
| CONT CC | ONTINUATION |) | BUTTERFLY VALVE | FIX IN POSITION AND CONNECT FOR USE. THE TERM "PROVIDE" SHALL MEAN TO FURNISH AND INSTALL. THE TERM | 4. STANDPIPE SYSTEMS SHALL BE DESIGNED AND INSTALLED IN STRICT ACCORDANCE WITH NFPA-14, ALL |
| | ETECTION DEVICE (SHOWN IN SYMBOL) UCTILE IRON PIPE | (ш (| BALL VALVE | "MECHANICAL WORK", "ELECTRICAL WORK", "PLUMBING WORK", ETC. SHALL MEAN ALL LABOR, MATERIAL, EQUIPMENT, SCAFFOLDING, RIGGING, TOOLS, SUPERVISION, SERVICES AND OTHER INCIDENTALS NECESSARY FOR | APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION. FIRE DEPARTMENT HOSE CONNECTION PATTERNS SHALL MEET THE REQUIREMENTS OF THE LOCAL FIRE MARSHALL AND THE AUTHORITY HAVING |
| | OWN | \(\frac{10}{2}\) | GATE VALVE - OUTSIDE SCREW & YOKE | COMPLETE AND OPERABLE INSTALLATION. | JURISDICTION. |
| | RY PIPE | | ANGLE VALVE | 6. THE CM/GC SHALL MAKE SETS OF THE BID DOCUMENTS CONSISTING OF COMPLETE SETS OF DRAWINGS AND SPECIFICATIONS; AND ISSUE THEM TO EACH OF THE PRIME AND SUB-CONTRACTORS. EVERY PRIME AND SUB- | 5. ALL DEDICATED WATER SUPPLY WORK ON SITE, INSIDE OF THE PROPERTY LINE, INCLUDING CONNECTION TO THE |
| | RAIN RISER RY STANDPIPE | ` | PIPE CAP - FLANGED, SCREWED OR GROOVED TYPE | CONTRACTOR ON EACH BIDDING TEAM SHALL RECEIVE COMPLETE SETS OF DRAWINGS AND | UTILITY IF APPLICABLE, SERVING THE FIRE PROTECTION SYSTEM (PIPE, FITTINGS, HYDRANTS, ETC.) SHALL BE INSTALLED UNDER THIS CONTRACT. |
| DWG DF | RAWING | ` }1 | FLANGED PIPE CONNECTION | SPECIFICATIONS. THERE ARE NOTES AND CROSS REFERENCES FOR VARIOUS TRADE CONTRACTORS IN MULTIPLE TRADE OR DISCIPLINE DRAWINGS AND SPECIFICATIONS, THUS, EACH CONTRACTOR IS TO RECEIVE COMPLETE | 6. ALL EXPOSED PIPING AND PIPING ABOVE THE CEILINGS SHALL BE INSTALLED AS CLOSE AS PRACTICAL TO THE |
| | ACH LECTRICAL CONTRACTOR | $\overline{}$ | GROOVED PIPE MECHANICAL CONNECTION | SETS OF THE BID DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE DRAWINGS FROM CM/GC. EACH CONTRACTOR IS RESPONSIBLE FOR THEIR WORK, AS NOTED ON THE OTHER DISCIPLINE | UNDERSIDE OF STRUCTURAL MEMBERS OR TO WITHIN ONE FOOT OF THE FLOOR / ROOF DECK ABOVE WHEREVER POSSIBLE. |
| EL EL | LEVATION | ` } | UNION | DOCUMENTS. BIDDERS ARE RESPONSIBLE FOR ALL COSTS FOR EACH SET OF BID DOCUMENTS REQUESTED. | |
| | QUIPMENT LOOR CONTROL VALVE | * | FIRE DEPARTMENT CONNECTION ("Y" PROJECTING) | 7. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL COORDINATION EFFORT IN ORDER TO CREATE A FINALIZED | 7. PROVIDE 2" DRAIN FROM EACH SPRINKLER ZONE CONTROL VALVE ASSEMBLY AND EXTEND TO 2" OR 3" DRAIN RISER, AS APPLICABLE, DISCHARGING TO EXTERIOR GRADE, AN APPROVED DRAINAGE SPECIALTY SIZED TO |
| FD FL | LOOR DRAIN | - | FIRE DEPARTMENT CONNECTION (FLUSH) | COORDINATED LAYOUT OF ALL EQUIPMENT, SYSTEMS, DUCTWORK, PIPING AND ALL OTHER ITEMS WITHIN THEIR RESPECTIVE SCOPE. THE CONTRACTOR'S COORDINATION EFFORT SHALL INCLUDE COORDINATED INFORMATION | ACCOMMODATE THE ANTICIPATED DEMAND OR AS SHOWN ON THE DRAWINGS. |
| - | RE DEPARTMENT CONNECTION RE HYDRANT | % | FIRE DEPARTMENT CONNECTION (SIDEWALK) | FROM ALL OTHER TRADE CONTRACTOR'S INVOLVED IN THE PROJECT SCOPE IN ORDER TO PROVIDE COORDINATION BETWEEN TRADES AND ALL EXISTING CONDITIONS. ALL ERRORS MADE AS A RESULT OF A LACK OF | 8. FINAL LOCATION OF EXTERIOR FIRE DEPARTMENT CONNECTIONS SHALL BE APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO INSTALLATION. |
| FHC FIF | RE HOSE CABINET | T ⊖ T <u>=</u> | FIRE DEPARTMENT CONNECTION (SIDEWALK) | COORDINATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND CORRECTED AT NO ADDITIONAL COST | |
| | RE HOSE RACK RE HOSE VALVE | II——III | FIRE HYDRANT | TO THE PROJECT. MINOR RELOCATIONS AND SHIFTS OF EQUIPMENT, DUCTWORK, AND PIPING WHICH DO NOT CHANGE THE DESIGN INTENT INDICATED ON THE CONTRACT DOCUMENTS, REQUIRED TO ACCOMMODATE FIELD | 9. PROVIDE ALL NEW SPRINKLER SYSTEM COMPONENTS, REFURBISHING, TESTING, CERTIFICATION, AND ANY OTHER WORK REQUIRED TO ENSURE A COMPLETELY APPROVED AND OPERATIONAL SYSTEM. CONTRACTOR SHALL |
| | RE PROTECTION CONTRACTOR | <u> </u> | WATER MOTOR GONG (OR ELECTRIC BELL) | CONDITIONS ARE AT THE CONTRACTORS DISCRETION AND DO NOT REQUIRE ENGINEER APPROVAL. | EXTEND FROM EXISTING PIPING OF ADEQUATE SIZE OR MAKE NEW PIPING CUT-INS AS REQUIRED TO SUIT NEW SPRINKLER LOCATIONS. |
| | RE PUMP TEST HEADER LOW SWITCH | | POST INDICATOR VALVE | 8. CONTRACTOR SHALL ARRANGE AND OBTAIN ALL PERMITS, INSPECTIONS AND APPROVALS, AND PAY ALL RELATED FEES. | 10. FIELD COORDINATE ALL FIRE PROTECTION PIPING AND EQUIPMENT LOCATIONS AND/OR MODIFICATIONS WITH THE |
| | DOT ,FEET | (FS) | FLOW SWITCH | | GENERAL, ELECTRICAL, AND MECHANICAL CONTRACTORS PRIOR TO COMMENCEMENT OF WORK TO ELIMINATE |
| | ENERAL CONTRACTOR | (PS) | PRESSURE SWITCH TAMPER SWITCH | 9. THE DRAWINGS INDICATE APPROXIMATE LOCATIONS BASED UPON INFORMATION OBTAINED WITHOUT REMOVING CEILING TILES OR WALLS. THEREFORE, THE CONTRACTOR SHALL INCLUDE IN THEIR BID CONTINGENCY COSTS TO | FIELD CONFLICTS. FINAL SPRINKLER LOCATIONS SHALL BE COORDINATED WITH LIGHTS, FIXTURES, DUCTWORK, DIFFUSERS, PIPING, EQUIPMENT, ETC. |
| | ALVANIZED PIPE ALLONS PER DAY | wiv II | WALL INDICATOR VALVE | ADDRESS CONFLICTS BETWEEN DESIGN AND EXISTING CONDITIONS. ANY CHANGES AND/OR MODIFICATIONS MUST BE REVIEWED AND APPROVED BY THE ENGINEER AND/OR OWNER'S REPRESENTATIVE PRIOR TO | 11. THE FIRE PROTECTION CONTRACTOR SHALL CONFIRM LIGHTING TO BE INSTALLED FOR COORDINATION OF |
| | ALLONS PER HOUR | | WET PIPE SPRINKLER SYSTEM ALARM VALVE | CONSTRUCTION. | LOCATIONS, SIZE, AND MOUNTING HEIGHTS. THE CONTRACTOR SHALL COORDINATE FINAL SPRINKLER HEAD |
| | ALLONS PER MINUTE ALON | \Diamond | DRY PIPE SPRINKLER SYSTEM ALARM VALVE | 10. FOR ANY DISCREPANCY BETWEEN DRAWINGS AND/OR SPECIFICATIONS, THE CONTRACTOR SHALL BASE THEIR BID | LOCATIONS PER NFPA 13 OBSTRUCTION REQUIREMENTS AND COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ENSURE ALL AREAS ARE COVERED IN ACCORDANCE WITH NFPA STANDARDS. |
| I. E. IN | VERT ELEVATION | Š | PREACTION SPRINKLER SYSTEM ALARM VALVE | UPON THE MOST STRINGENT REQUIREMENT (QUALITY, QUANTITY, SIZE, ETC.). THE CONTRACTOR SHALL IDENTIFY DISCREPANCIES AS PART OF THEIR BID. | 12. COORDINATE ALL LOCATIONS AND MOUNTING HEIGHTS OF FIRE PROTECTION DEVICES AND APPURTENANCES |
| | DW ZONE ORMALLY CLOSED | $\langle s \rangle$ | SMOKE DETECTOR | 11. PRIOR TO DEMOLITION, THE CONTRACTOR SHALL LOG ALL EXISTING EQUIPMENT AND TRACE ELECTRICAL, FIRE | WITH THE LOCAL AUTHORITY HAVING JURISDICTION, APPLICABLE ADA REQUIREMENTS AND ALL TRADE CONTRACTORS. |
| NIC NO | OT IN CONTRACT | $\langle \overline{H} \rangle$ | HEAT OR THERMAL DETECTOR | ALARM, AND CONTROL CIRCUITS THAT SERVE SUCH EQUIPMENT. | |
| | ORMALLY OPEN OT TO SCALE | P | PREACTION SYSTEM PULL STATION | 12. ALL SERVICES TO EXISTING BUILDINGS SHALL BE MAINTAINED DURING CONSTRUCTION UNLESS OTHERWISE | 13. HYDRAULIC CALCULATIONS SHALL DICTATE THE ADEQUATE SIZES OF PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EXISTING PIPING (BRANCHES, MAINS, ETC.) WITH NEW PIPING OF LARGER |
| | RE ACTION | | HORN BELL/AMBER STROBE (INSIDE ROOM, PREACTION SYSTEM) | INDICATED. CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS AND TIMING WITH OWNER. | DIAMETER, IF NECESSARY, TO BRING THE SYSTEM TO FULL COMPLIANCE WITH THE HYDRAULIC CALCULATIONS. |
| | LUMBING CONTRACTOR RESSURE GAUGE | | BELL/AMBER STROBE ALARM (OUTSIDE ROOM, PREACTION SYSTEM) | 13. THE CONTRACTOR SHALL EFFECTIVELY PROTECT ALL MATERIALS AND EQUIPMENT FROM ENVIRONMENTAL AND PHYSICAL DAMAGE UNTIL FINAL ACCEPTANCE. CLOSE AND PROTECT ALL OPENINGS DURING CONSTRUCTION. | 14. AS APPLICABLE, FIRE PROTECTION SPRINKLER AND OR STANDPIPE SYSTEM HYDRAULIC CALCULATIONS SHALL BE SUBMITTED AND APPROVED BY THE OWNER'S UNDERWRITER, AUTHORITIES HAVING JURISDICTION AND THE |
| | OST INDICATOR VALVE | | HORN BELL/RED STROBE (INSIDE ROOM, PREACTION SYSTEM) | PROVIDE NEW MATERIALS AND EQUIPMENT TO REPLACE ITEMS DAMAGED. | ENGINEER PRIOR TO REVIEW AND APPROVAL OF A FIRE PUMP SHOP DRAWING SUBMISSION. |
| PRESS PR | RESSURE RESSURE SWITCH | | BELL/RED STROBE ALARM (OUTSIDE ROOM, PREACTION SYSTEM) | 14. EXISTING EQUIPMENT THAT INTERFERES WITH NEW ARRANGEMENT SHALL BE REMOVED, REINSTALLED, | 15. CONTRACTOR SHALL COORDINATE THE EXISTING SPRINKLER SYSTEM SHUTDOWN WITH BUILDING |
| | DUNDS PER SQUARE INCH | | ION DETECTOR (CEILING MOUNTED) | RELOCATED, REROUTED, EXTENDED OR ABANDONED AS REQUIRED, TO SUIT THE NEW ARRANGEMENT. | MANAGEMENT/OWNER PRIOR TO COMMENCEMENT OF WORK. WORK SHALL BE DONE AT SUCH A TIME, AND IN SUCH A MANNER, AS WILL LEAST INTERFERE WITH THE MAINTENANCE AND OPERATION OF THE BUILDING |
| | DUNDS PER SQUARE INCH GAUGE QUARE FOOT | | ION DETECTOR (ABOVE CEILING MOUNTED) | 15. WHERE BEAMS ARE INDICATED TO BE PENETRATED WITH DUCTWORK AND/OR PIPING, CAREFULLY COORDINATE SIZES AND LOCATIONS OF THE ELEMENTS BEFORE FABRICATION. COORDINATE WITH FINAL LOCATION OF BEAM | ACTIVITIES. WORK SHALL NOT INTERFERE WITH THE QUIET ENJOYMENT OF THE BUILDING BY OTHER TENANTS. WHERE FIRE PROTECTION SYSTEM SHUTDOWN PERIODS CANNOT BE OF DURATION TO ACCOMMODATE THE NEW |
| | PRINKLER PIPING | | ION DETECTOR (BELOW RAISED FLOOR) PHOTOELECTRIC DETECTOR (CEILING MOUNTED) | PENETRATIONS AND SHEAR WALL PENETRATIONS. | WORK DURING THE DAY TIME, THE CONTRACTOR SHALL PROVIDE FIRE WATCH IF EXISTING FIRE PROTECTION |
| | PRINKLER FAND PIPE | | PHOTOELECTRIC DETECTOR (CEILING MOUNTED) PHOTOELECTRIC DETECTOR (ABOVE CEILING MOUNTED) | 16. CONTRACTOR SHALL COORDINATE LOCATION OF ALL WALL, FLOOR AND ROOF OPENINGS WITH STRUCTURAL AND | SYSTEM WILL BE SHUT DOWN OVER NIGHT. COORDINATE FIRE WATCH, IF REQUIRED, WITH BUILDING OWNER. |
| | HRUST BLOCK | | PHOTOELECTRIC DETECTOR (BELOW RAISED FLOOR) | OTHER TRADES. | 16. CONTRACTOR SHALL VERIFY CONCEALED SPACES ARE PROTECTED IN ACCORDANCE WITH N.F.P.A. 13 AND ANY LOCAL CODE REQUIREMENTS. |
| | OTAL DYNAMIC HEAD OP OF PIPE | $\stackrel{\bullet}{\longrightarrow}$ | LIMIT OF REMOVAL | 17. PROVIDE CUTTING AND PATCHING AS REQUIRED AND WHERE NECESSARY TO ACCOMMODATE NEW WORK AND THE REPAIR OF EXISTING WORK. | 17. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED UNDER ALL DUCTS AND ALL OTHER OBSTRUCTIONS THAT ARE |
| | AMPER SWITCH | Š | CONNECT TO EXISTING | | 4'-0" AND GREATER IN WIDTH IN ACCORDANCE WITH NFPA 13. COORDINATE FINAL SPRINKLER HEAD LOCATIONS |
| | /PICAL | M | CLEAN AGENT SYSTEM PULL STATION | 18. WHEN WORK INVOLVES CONTACT WITH MATERIALS CONTAINING ASBESTOS, PCB, OR OTHER TOXIC MATERIALS, NOTIFY OWNER, WHO WILL ESTABLISH PROCEDURES FOR REMEDIATION AND REMOVAL. | AND REQUIREMENTS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS. |
| | ERIFY IN FIELD | Α | CLEAN AGENT SYSTEM ABORT STATION | 19. CONTRACTOR SHALL SCHEDULE THE WORK UNDER THIS CONTRACT WITH WORK OF OTHER TRADES AS NOT TO | 18. ADDITIONAL SPRINKLER HEADS SHALL BE PROVIDED AT THE LOWEST LANDING AND TOP OF ALL STAIRTOWERS IN ACCORDANCE WITH NFPA 13. |
| | THOUT | MD | MASTER DISABLE SWITCH | DELAY THE OVERALL PROGRESS OF THE PROJECT. | 19. SPRINKLER SHALL BE LOCATED IN THE CENTER OF CEILING TILES UNLESS SPECIFICALLY NOTED OTHERWISE. |
| | ET STAND PIPE | SV | SOLENOID VALVE | 20. CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS PRIOR TO PURCHASING EQUIPMENT AND | |
| PIP | PE LOCATION NOTES | CI | CYLINDER INITIATOR | PRIOR TO CUTTING OPENINGS. | 20. ALL PIPING PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH UL LISTED FIREPROOFING SYSTEM TO MATCH THE RATING OF THE WALL OR FLOOR. |
| | | EPO CARO | EMERGENCY POWER OFF | 21. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS PER SPECIFICATIONS PRIOR TO PURCHASING OR INSTALLING EQUIPMENT AND SYSTEMS INDICATED ON CONTRACT DOCUMENTS. PRIOR TO SUBMITTAL, CONTRACTOR SHALL | 21. PROVIDE NEC REQUIRED PIPE CLEARANCE ABOVE OR AROUND ANY ELECTRICAL EQUIPMENT, PANELS, ETC. |
| (1) | CONCEALED IN CEILING SPACE ABOVE | AC-3 | AC UNIT NUMBER | VERIFY THAT ADEQUATE SPACE EXISTS FOR THE SUBMITTED EQUIPMENT. SHOP DRAWINGS MUST BE REVIEWED BY ARCHITECT/ENGINEER. | 22. PROVIDE PROTECTIVE SPRINKLER GUARDS ON SPRINKLER HEADS LOCATED BELOW 7'-0" A.F.F. IN MECHANICAL |
| | | <u> </u> | OLEAN AGENT PROGUADOS NOTALS (UNDER SLOOP) | | ROOMS, STORAGE ROOMS, PUMP ROOMS, SERVICE AREAS, GYMNASIUMS REGARDLESS OF SPRINKLER HEAD |
| <u>2</u> | EXPOSED IN STRUCTURE ABOVE | φ φ | CLEAN AGENT DISCHARGE NOZZLE (UNDER FLOOR) | 22. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED BY OTHER TRADES DUE TO SUBSTITUTION OF OTHER THAN SCHEDULED EQUIPMENT. WHEN EQUIPMENT FURNISHED IS DIFFERENT THAN INDICATED, THE COST | ELEVATION AND WHERE OTHERWISE SUSCEPTIBLE TO DAMAGE. |
| | | | CLEAN AGENT DISCHARGE NOZZLE (CEILING) | OF ADDITIONAL ELECTRICAL SERVICE, STRUCTURAL AND RELATED WORK SHALL BE PAID BY THIS CONTRACTOR. | 23. SPRINKLER PIPING, IN BAR JOIST CONSTRUCTION, SHALL BE SUPPORTED FROM PANEL POINTS OF BAR JOIST. THRUST SUPPORTS SHALL BE ATTACHED TO TOP CHORD ONLY, UNLESS SUFFICIENT CROSS BRACING IS |
| <u>3</u> | CONCEALED IN CEILING SPACE, BELOW FLOOR | | CLEAN AGENT DISCHARGE NOZZLE (CEILING) | 23. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER AND SHALL BE DONE IN ACCORDANCE | PROVIDED. |
| $\langle 4 \rangle$ | EXPOSED ON STRUCTURE, FLOOR BELOW | | CLEAN AGENT DISCHARGE NOZZLE (ABOVE | WITH GOOD TRADE PRACTICE AND IN CONFORMANCE WITH APPLICABLE MANUFACTURERS' RECOMMENDATIONS. | 24. FOR ADDITION OR RELOCATION OF SPRINKLER HEADS IN NEW AND EXISTING CONSTRUCTION, ALL SPRINKLER |
| 4 | EXI OSED ON STRUCTURE, FEOOR BELOW | | CEILING) | 24. CONTRACTOR SHALL REMOVE ALL TRASH, DEBRIS AND DEMOLITION MATERIAL FROM PREMISES AT THE END OF EACH DAY. | HEAD RESPONSE CHARACTERISTICS SHALL MATCH EXISTING SPRINKLER HEADS WITHIN THE SCOPE OF WORK INCLUDING SURROUNDING SPACES OUTSIDE OF THE SCOPE OF WORK AS REQUIRED PER NFPA STANDARDS. |
| $\langle 5 \rangle$ | BELOW GRADE | | | 25. RESTORE ALL SURFACES (WALLS, CEILINGS, FLOORS AND ROOFS) THAT ARE DAMAGED BY THE WORK OF THIS | |
| | | | EQUIPMENT TAG | CONTRACT TO THEIR ORIGINAL CONDITION AT NO EXTRA COST TO THE OWNER. | |
| $\langle 6 \rangle$ | RACK ON WALL, BELOW COUNTER TOP | | | 26. PRIOR TO EQUIPMENT STARTUP, CONTRACTOR SHALL PERFORM THE SPECIFIED STARTUP AND COMMISSIONING | |
| | | DSP # | DRY STAND PIPE RISER No. | PROCEDURES. | |
| 7 | ABOVE FLOOR | | | 27. IN THE ABSENCE OF OTHER SPECIFIC INSTRUCTIONS, ALL WORK AND MATERIALS SUPPLIED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF THEIR ACCEPTANCE BY THE OWNER. | |
| | | SP # | SPRINKLER RISER No. | | |
| 8 | RUN THROUGH OR BETWEEN BAR JOIST | | | 28. BALA CONSULTING ENGINEERS, INC. (BALA) WILL PROVIDE CONTRACTOR WITH ELECTRONIC CADD FILES OF THE ENGINEERING DESIGNS FOR THE SOLE USE IN EXPEDITING SHOP DRAWINGS. BALA'S FILES SHALL NOT BE | |
| | | WSP # | WET STAND PIPE RISER No. | DIRECTLY COPIED AND ISSUED AS SHOP DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE | |
| 9 > | CONCEALED BELOW RAISED FLOOR | | | SPECIFICATIONS. SHOULD THE SHOP DRAWINGS SUBMITTED PROVE TO BE A DIRECT COPY OF OUR FILES | |
| | | DR # | DRAIN RISER No. | WITHOUT THE NECESSARY FIELD COORDINATION, DIMENSIONING AND ADHERENCE TO THE SHOP DRAWING REQUIREMENTS AS NOTED IN THE SPECIFICATIONS, THESE SHOP DRAWINGS WILL BE RETURNED AS REJECTED. | |
| | · · | | | BALA'S ELECTRONIC FILES ARE SAVED IN VERSION [REVIT, AUTOCAD] [2016, 2017, 2018] AND ARE COMPATIBLE WITH | |
| | | | | ALL VERSIONS AFTER THAT. BALA MAKES NO REPRESENTATION AS TO THE COMPATIBILITY OF THESE FILES WITH | |
| | | | | THE CONTRACTOR'S HARDWARE OR THEIR SOFTWARE. | |
| | | | | | |

- DESIGN VIDED
- THE REVER
- OTHER
- TH THE ATE ORK,

| DRAWING LIST - FIRE PROTECTION_BOS | | | | | | | |
|------------------------------------|--|---------|--------------|--|--|--|--|
| DRAWING | | SHEET N | SHEET NUMBER | | | | |
| NUMBER | DRAWING TITLE | INDEX | TOTAL | | | | |
| FP0-0-1 | FIRE PROTECTION COVER SHEET | | | | | | |
| FP1-1-0E | FIRE PROTECTION LOWER LEVEL FLOOR PLAN - PLAN EAST | | | | | | |
| FP1-1-1E | FIRE PROTECTION FIRST FLOOR PLAN - PLAN EAST | | | | | | |
| FP1-1-1W | FIRE PROTECTION FIRST FLOOR PLAN - PLAN WEST | | | | | | |
| FP1-1-2E | FIRE PROTECTION SECOND FLOOR PLAN - PLAN EAST | | | | | | |
| FP1-1-2W | FIRE PROTECTION SECOND FLOOR PLAN - PLAN WEST | | | | | | |
| FP1-1-3E | FIRE PROTECTION THIRD FLOOR PLAN - PLAN EAST | | | | | | |
| FP1-1-3W | FIRE PROTECTION THIRD FLOOR PLAN - PLAN WEST | | | | | | |
| FP1-1-4E | FIRE PROTECTION FOURTH FLOOR PLAN - PLAN EAST | | | | | | |
| FP1-1-4W | FIRE PROTECTION FOURTH FLOOR PLAN - PLAN WEST | | | | | | |
| FP1-2-1E | FIRE PROTECTION ROOF PLAN - PLAN EAST | | | | | | |
| FP1-2-1W | FIRE PROTECTION ROOF PLAN - PLAN WEST | | | | | | |



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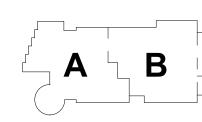
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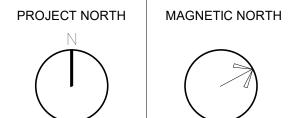
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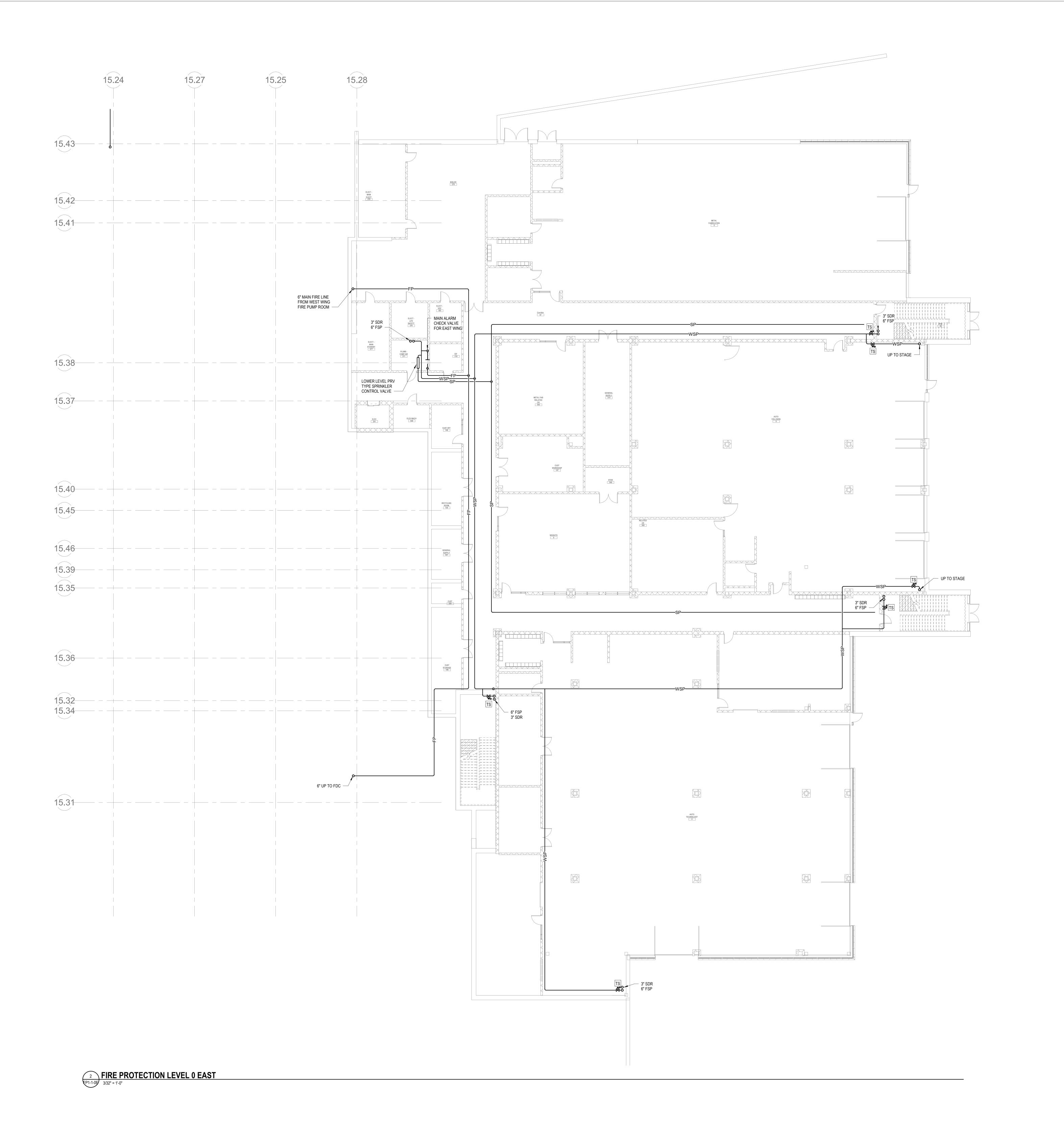
KEY PLAN



PROTECTION COVER SHEET

Drawn By: DRA

FP0-0-1



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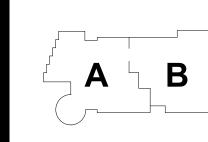
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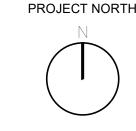
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MAGNETIC NORTH

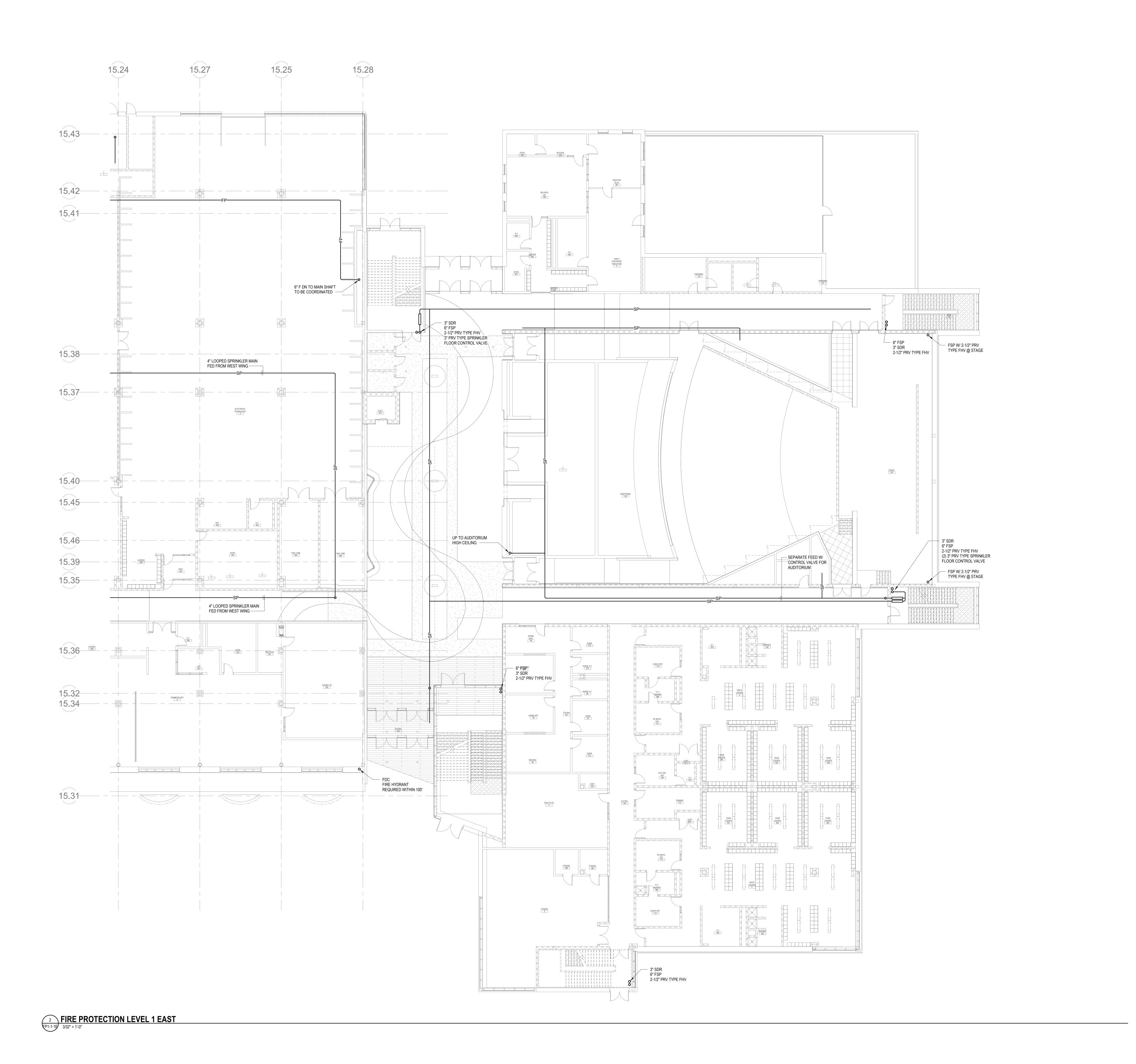
PROJECT NORTH



FIRE PROTECTION LOWER LEVEL FLOOR PLAN -**PLAN EAST**

Scale: 3/32" = 1'-0"

Drawn By: DRA FP1-1-0E



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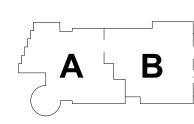
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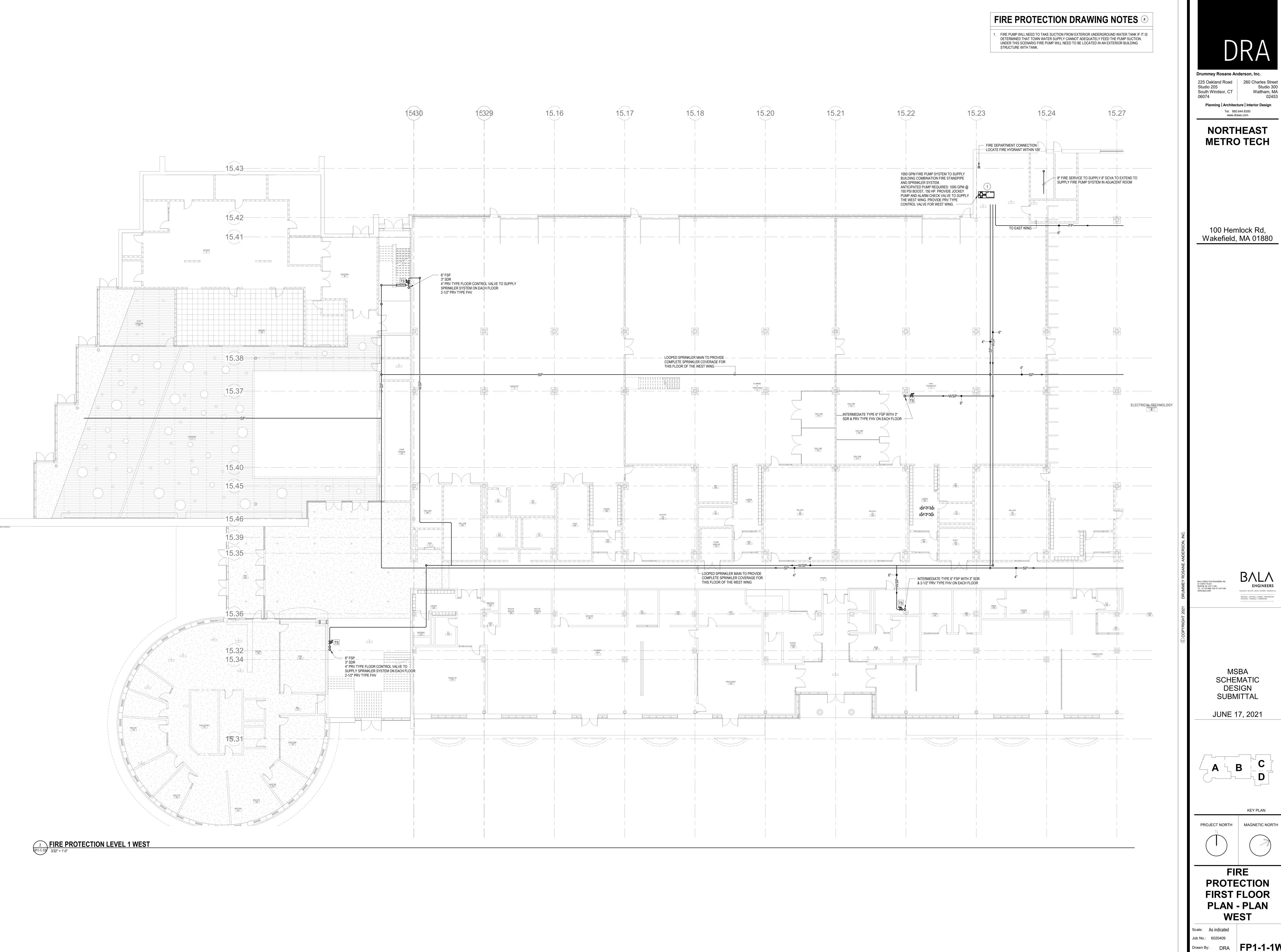
PROTECTION FIRST FLOOR PLAN - PLAN EAST

Scale: 3/32" = 1'-0"

Job No.: 6020409

Drawn By: DRA

PRA **FP1-1-1E**



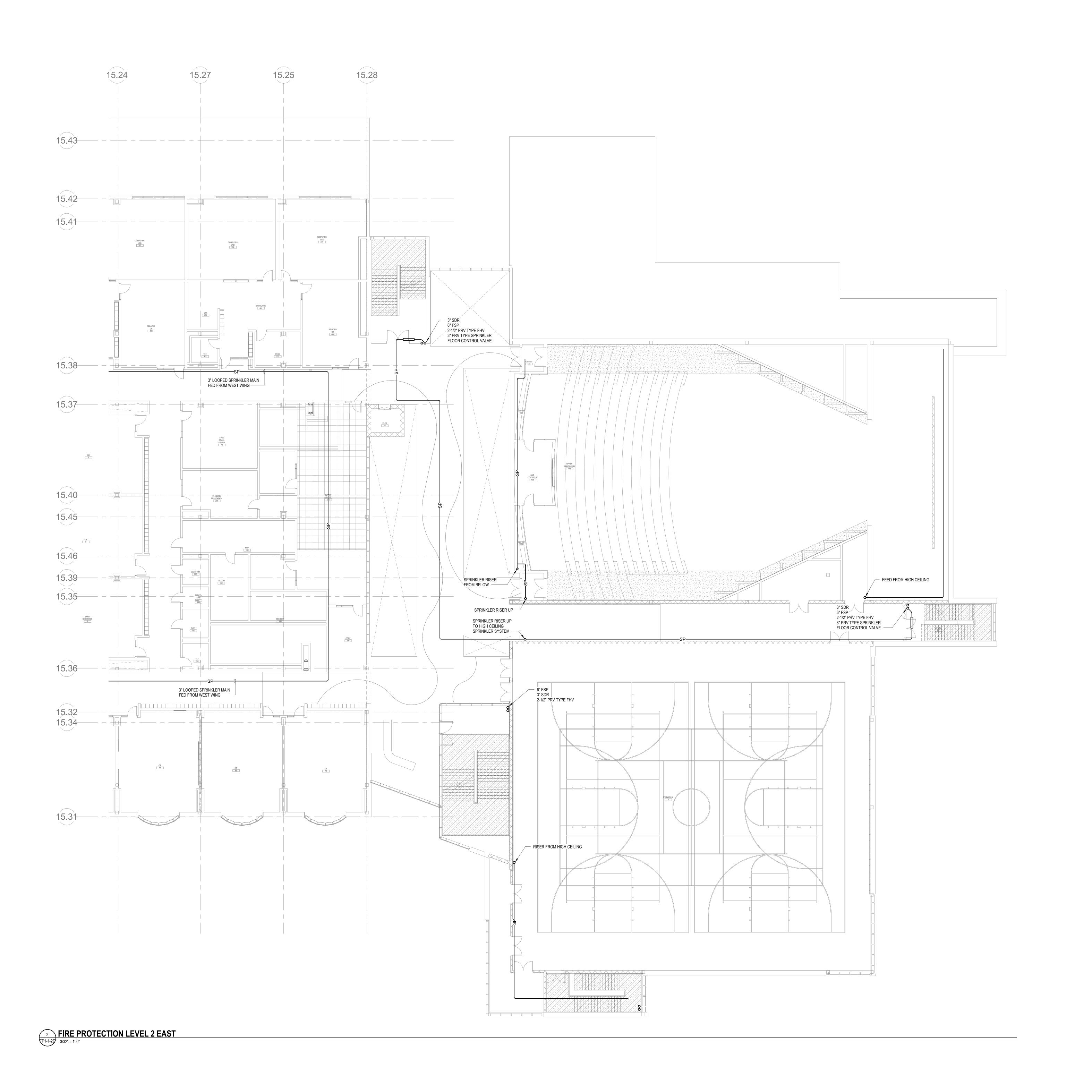
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PROTECTION FIRST FLOOR **PLAN - PLAN**



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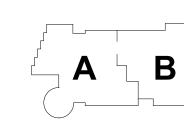
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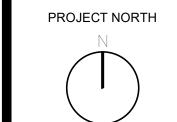
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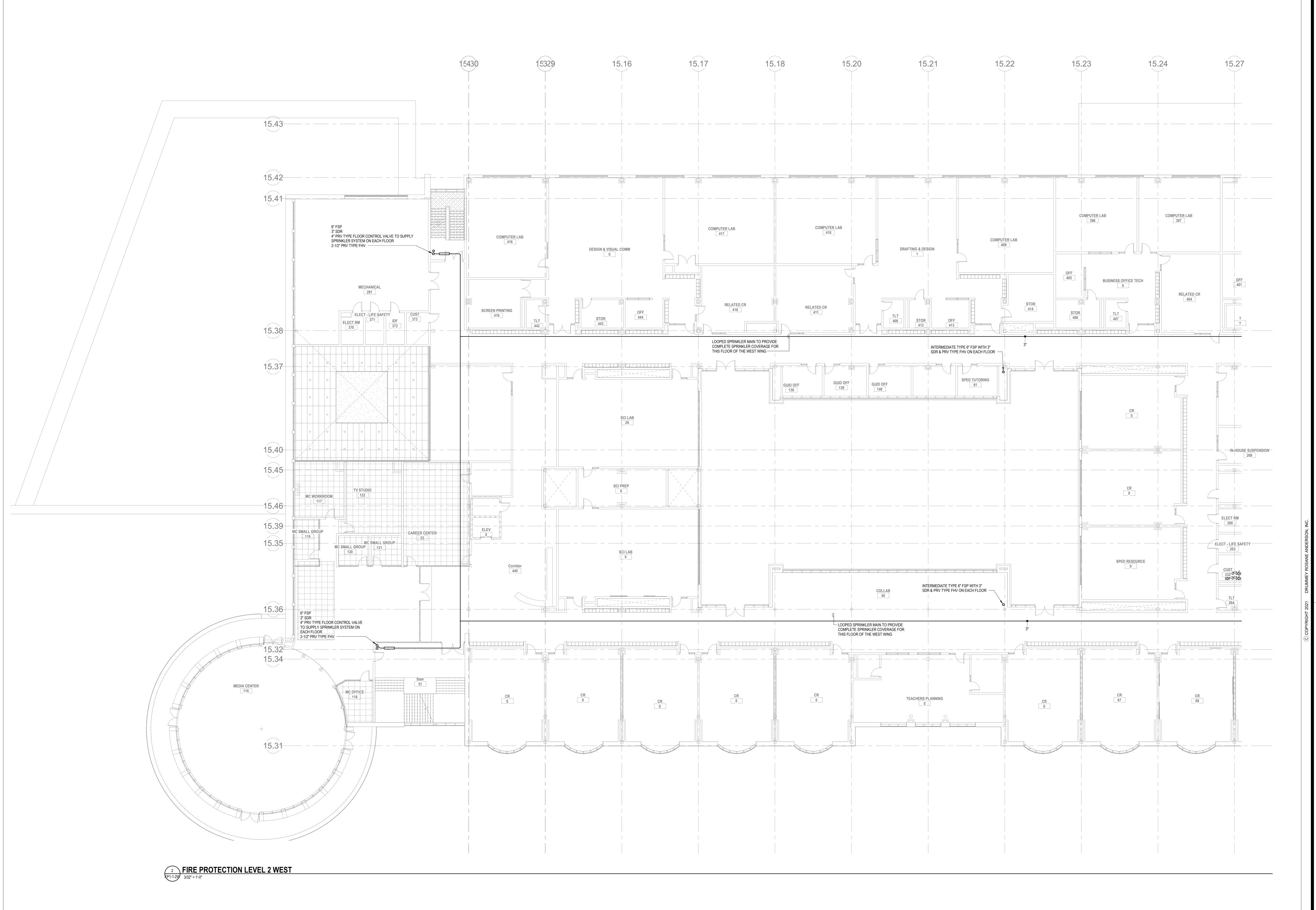
KEY PLAN MAGNETIC NORTH



FIRE PROTECTION

SECOND FLOOR PLAN - PLAN **EAST**

FP1-1-2E





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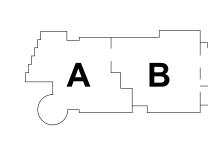
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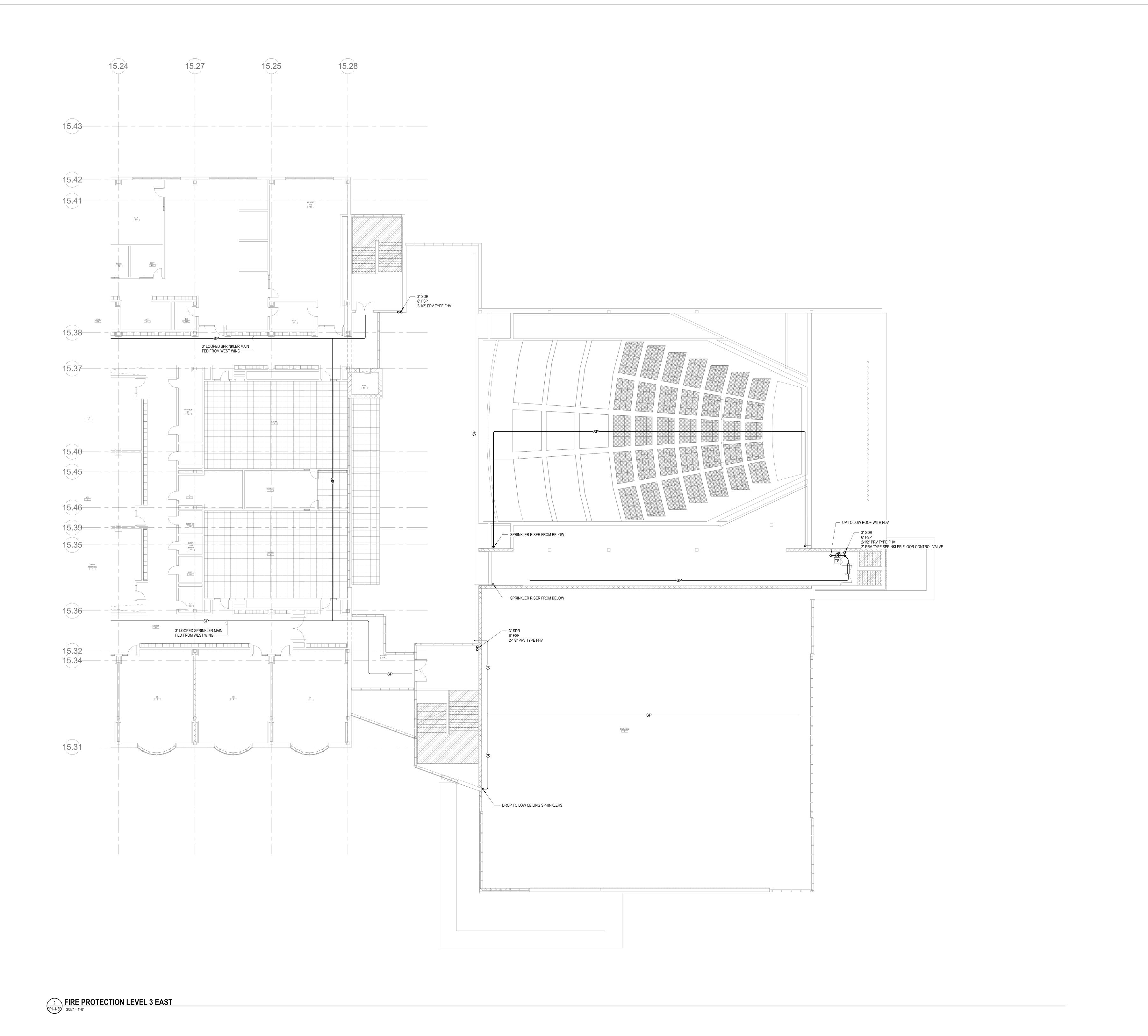
PROJECT NORTH

FIRE PROTECTION SECOND FLOOR

PLAN - PLAN WEST

Scale: 3/32" = 1'-0"

Drawn By: DRA FP1-1-2W





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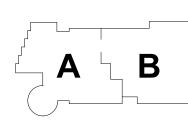
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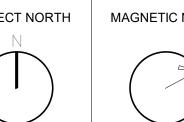
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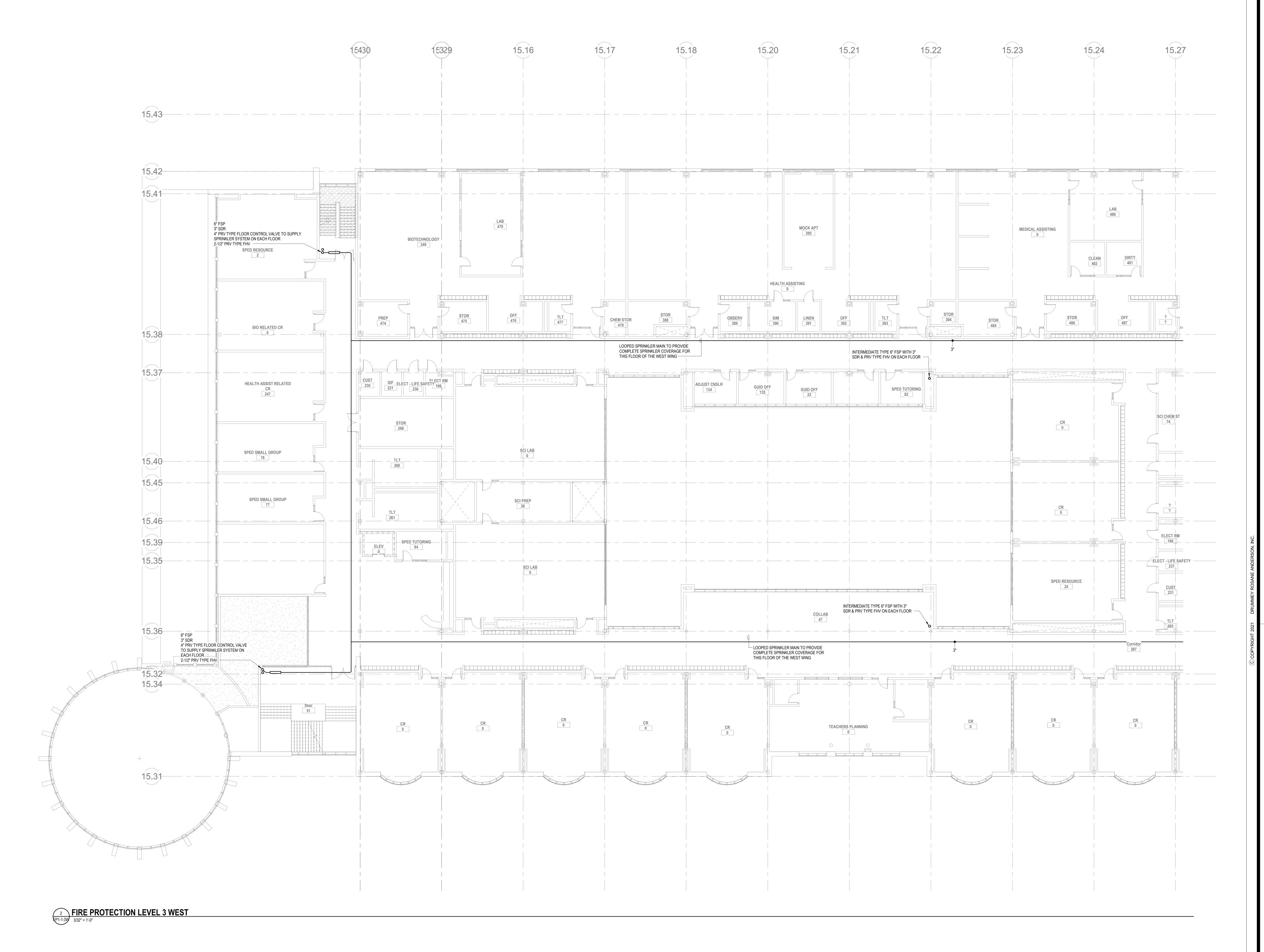


KEY PLAN

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PROTECTION THIRD FLOOR **PLAN - PLAN EAST**



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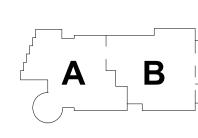
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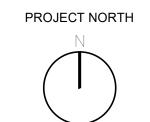
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KEY PLAN

MAGNETIC NORTH



FIRE

PROTECTION THIRD FLOOR **PLAN - PLAN WEST**

Drawn By: DRA FP1-1-3W

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15.27

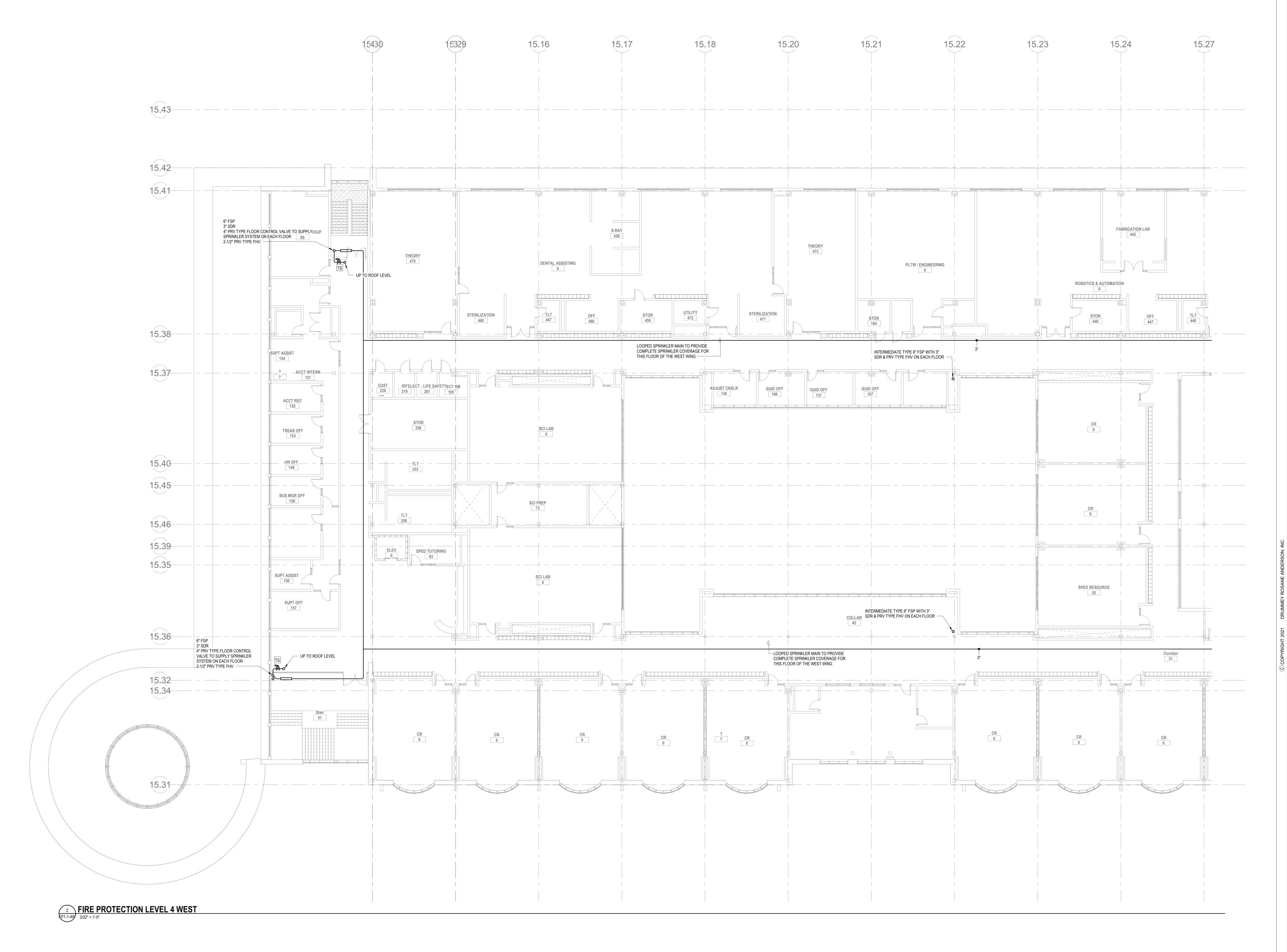
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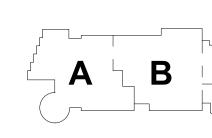
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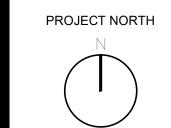
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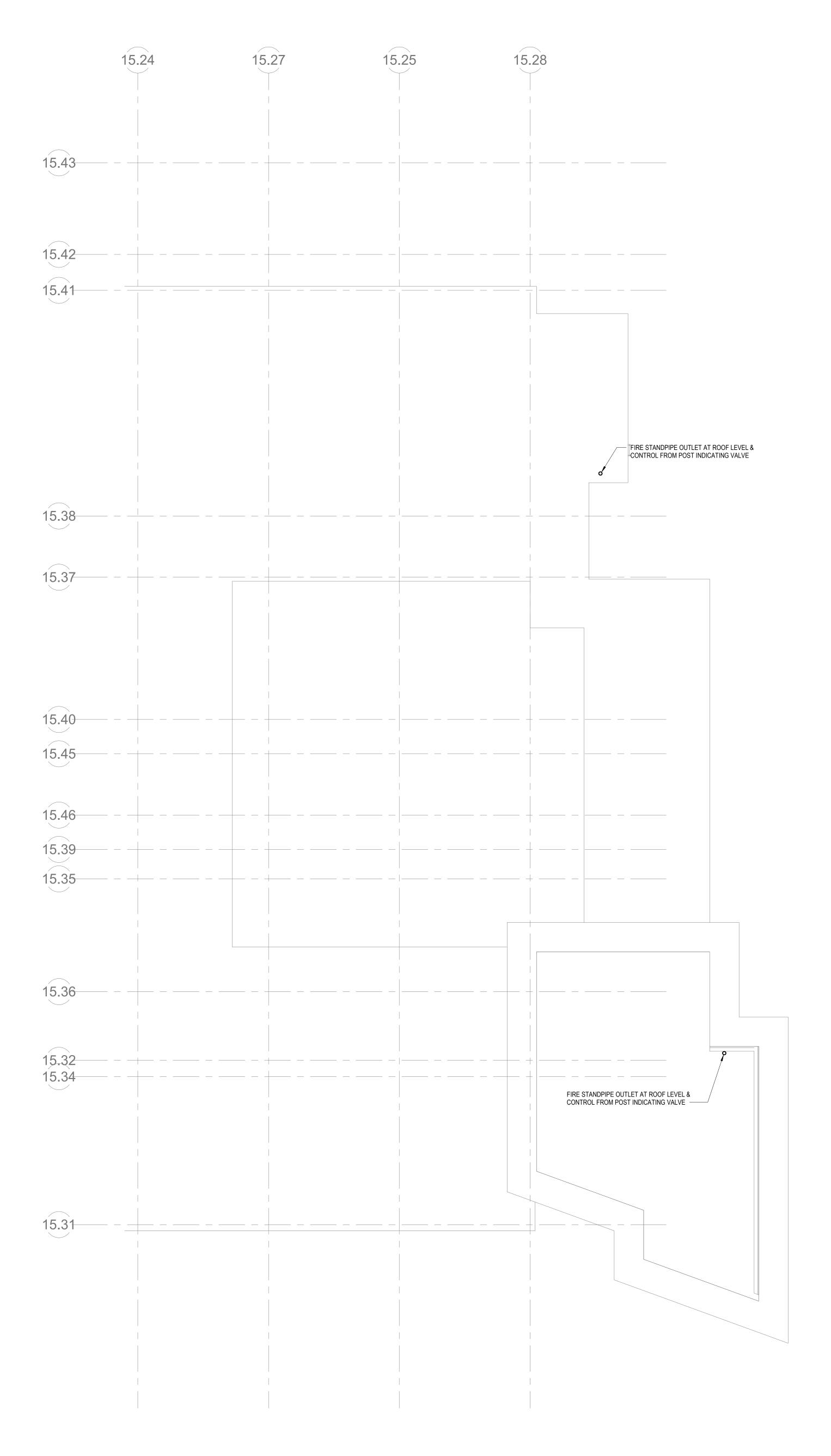
MAGNETIC NORTH



FIRE PROTECTION FOURTH FLOOR PLAN - PLAN

WEST

Drawn By: DRA FP1-1-4W



FP1-2-1E 3/32" = 1'-0"

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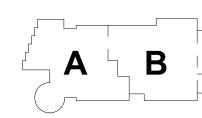
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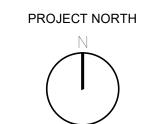
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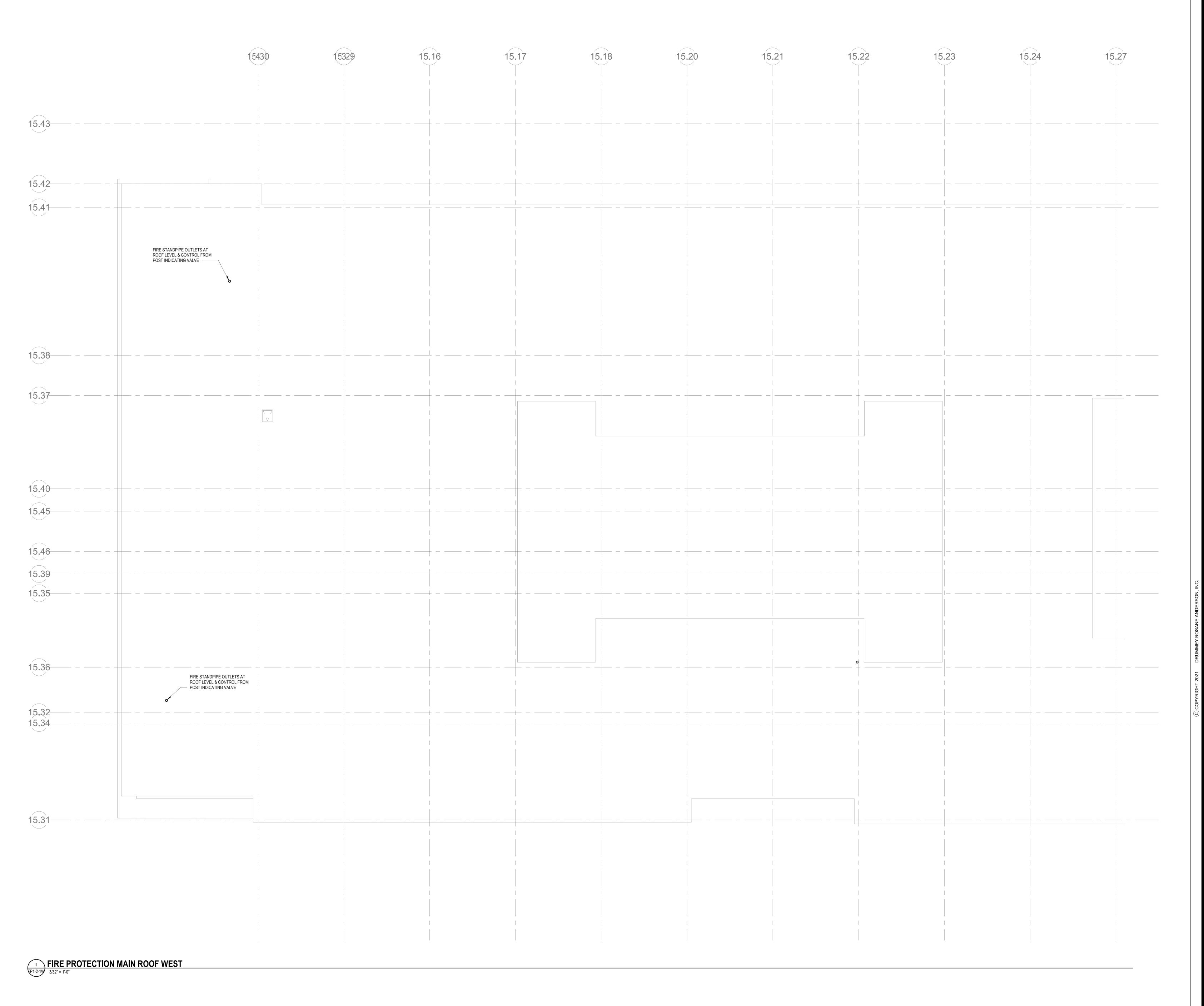
MAGNETIC NORTH

KEY PLAN



PROTECTION ROOF PLAN -PLAN EAST

Scale: 3/32" = 1'-0" Drawn By: DRA **FP1-2-1E**



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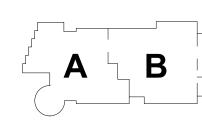
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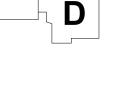
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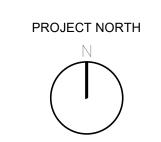
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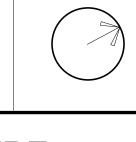




KEY PLAN

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FIRE PROTECTION ROOF PLAN -PLAN WEST

Scale: 3/32" = 1'-0"
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Orawn By: DRA

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