STATION PARK F-320

SHIRE OFFICE REMODEL

1465 Promontory Farmington, Utah 84025

Vicinity Map

Sheet Index A000 A001 Electrical Electrical General Sheet Power Plan Power PLan Electrical Schedules <u>Mechanica</u> Mechanical Plan Mechanical Details and Schedules

Project Data

Scope of Work

This project consists on the demolition of some walls and the addition of glass doors as well as wood

Construction will be studs to match existing. Repair of some flooring, walls and ceilings to match existing

Abbreviations

International Fire Code 2021

International Fuel Gas Code 2021

National Electrical Code 2019

MANUF Manufacturer

Diameter

Tube Steel

No To Scale

Continuous

Not In Contract

Concrete

Equal

Rough Opening

Unless Noted Otherwise

DIA

TS

N.T.S.

CONT

CONC

International Energy Conservation Code 202

Jurisdiction

Farmington, UT 84025

Farmington City Building Dep. Farmington City Fire Dep.

doors for office use. the restrooms will remain as they are.

We will add and remove some light fixtures and HVAC vents.

82 N 100 e

Farmington, UT 84025 Ph: 801.451.2842

DAVIS

PRINTED DATE 09.14.2023

- F-320 EMODEL

CHRONOLOGY

PROJECT NO

DWN BY/ CHK BY

COVER SHEET EXITING PLAN

30X42 SHEET#

General Architectural Notes

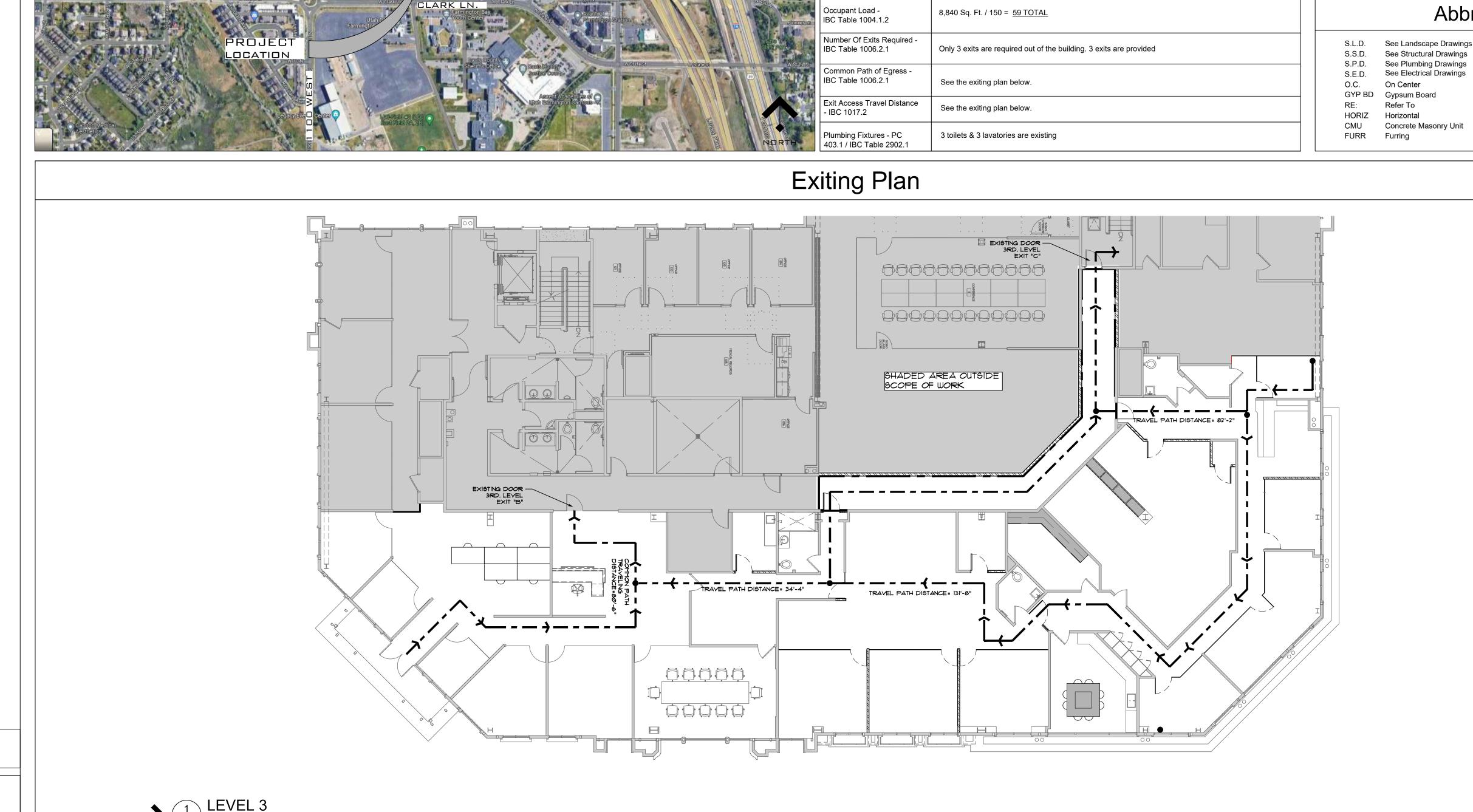
General Contractor Shall Refer To All Applicable Construction Procedures As Provided In The Project Manuals Supplemental

- 2. Before Performing Any Work Or Ordering Any Materials, The Contractor Shall Be Responsible For Verifying All Conditions And Dimensions Of The Work. The Contractor Shall Be Responsible For Advising The Architect Of Any Discrepancies And/or Conflicts Between Existing Conditions And The Construction Documents Prior To Proceeding With The Work In Question Or Related Work.
- 3. As A Minimum Standard, All Work And Materials Installed Shall Be In Strict Accordance With All Applicable Codes, Regulations And Ordinances Having Jurisdiction.
- 4. Install All Manufacturer's Items, Materials And Equipment In Strict Accordance With The Manufacturers Recommended Specifications, Unless Otherwise Specifically Noted And Reviewed By
- 5. The Contractor Shall Be Responsible For Becoming Familiar With The Project Schedule And Deadlines, And For Advising The Architect Of All Long Lead Time Items And Shall Submit Order Confirmations Of Such Long Lead Time Items To The Architect With Delivery Dates.
- 6. Installation Of All Selected Materials Shall Be Complete In All Respects Prior To Final Acceptance. Any Miscellaneous Items Or Materials Not Specifically Noted But Required For Proper Installation Shall Be Furnished By The Contractor. The Contractor Shall Furnish To The Owner All Warranties And Guarantees Required At The Conclusion Of The Work.
- 7. The Contractor Shall Not Scale The Drawings, Dimensions Shall Govern In All Cases. Large Scale Drawings Shall Govern Over Small Scale Details.
- 8. The General Contractor Shall Maintain A Current And Complete Set Of Construction Drawings On The construction Floor During All Phases Of The Construction For Use By All Trades. Dimensions Indicated Are From Face Of Wall To Face Of Wall Unless Otherwise Indicated. Dimensions Indicated
- For Masonry 9. Are Nominal.
- 10. A Separate Permit Is Required For Sign Installation.
- 11. Welding Shall Be Performed In The Shop By An Approved Fabricator Or Certified Welder Under The
- 12. The General Contractor Shall Coordinate With The Owner The Location Of Construction Traffic For
- 13. Construction Shall Comply With The Accessibility Requirements Per The Building Code And The Americans With Disabilities Act Accessibility Guidelines.
- 14."ul" Numbers Shown On These Documents Are Based On The Latest Issue Of The Underwriters Laboratories, Inc. Fire Resistance Directory.
- 15. Size, Placement, And Orientation Of Framing Members On Structural Drawings Override Size, Placement, And Orientation Of Framing Members Shown On The Architectural Drawings.
- 16. Sprinkler, Plumbing, Mechanical, Or Electrical Contractors Shall Not Penetrate Or Cut Structural Members Without Prior Approval From The Structural Engineer.
- 17. Continuous Inspections Are Required Unless Otherwise Specified. Special Inspectors Are To Be
- Certified By The Local Jurisdiction, To Perform The Required Inspection Specified. It Is The Contractor's Responsibility To Notify The Inspectors Of An Inspection.
- 18. Protect All Existing Fixtures, Site Construction, Concrete And Other Such Existing Finishes Scheduled To Remain. All Damage To These Areas Shall Be Repaired At The Expense Of The
- 19. All Exit Doors Shall Swing In The Direction Of Travel.
- 20. Provide Solid 2x Wood Blocking Within Stud Walls At All Anchorage Locations Of Cabinets, Door Stops, Toilet Room Accessories And Other Wall Anchorage Items. Anchorage Through Gypsum Board Alone Is Not Acceptable.
- 21. Mechanical Contractor Shall Furnish And General Contractor Shall Install Access Doors In Finish Work As Required For Access To Mechanical Equipment.
- 22. Owner Will Be Responsible For And Maintain Builder's Risk Insurance Throughout The Project.
- 23. Contractor Is Responsible To Obtain Any And All Permits Associated With The Work As Included In
- 24. Temporary Power- Contractor Is Responsible For All Costs Associated With Temporary Facilities.
- 25. Contractor To Notify Owner, Architect And Engineer Of Any Conflict In The Drawings And Shall Not Proceed Until Contractor Has Received Written Clarification Executed By All Parties, Including The Owner. Failure To Secure Written Confirmation As Set Forth Above Will Result In Contractor Being One-hundred Percent (100%) Responsible For All Costs Associated With The Required Corrective Action. No Additional Time Will Be Added To The Schedule.
- 26. All Applicable Zoning And Planning Documents Will Be Issued With The Construction Documents. Zoning And Planning Documents Shall Control.
- 27. The Contractor Shall, Before Commencing Work, Verify Grades, Lines, Levels And Dimensions Shown On The Drawings And Shall Report Any Errors Or Inconsistencies In Writing To The Architect And Owner. The Contractor Shall Not Proceed Until Such Errors Or Inconsistencies Are Corrected.

Contact List

Architect Layton Davis Architects 2005 East 2700 South, Suite #200 Salt Lake City, Utah 84109 Contact(s): John Davis E-mail: john@laytondavisarchitects.com

Ph: 801.487.0715



Code Compliance

(B) Allowable: 27,000 sq. ft. Existing Total Square Footage = Main - 8,840 Sq. Ft.

Existing Construction appears to be V-B

This building is Sprinkled

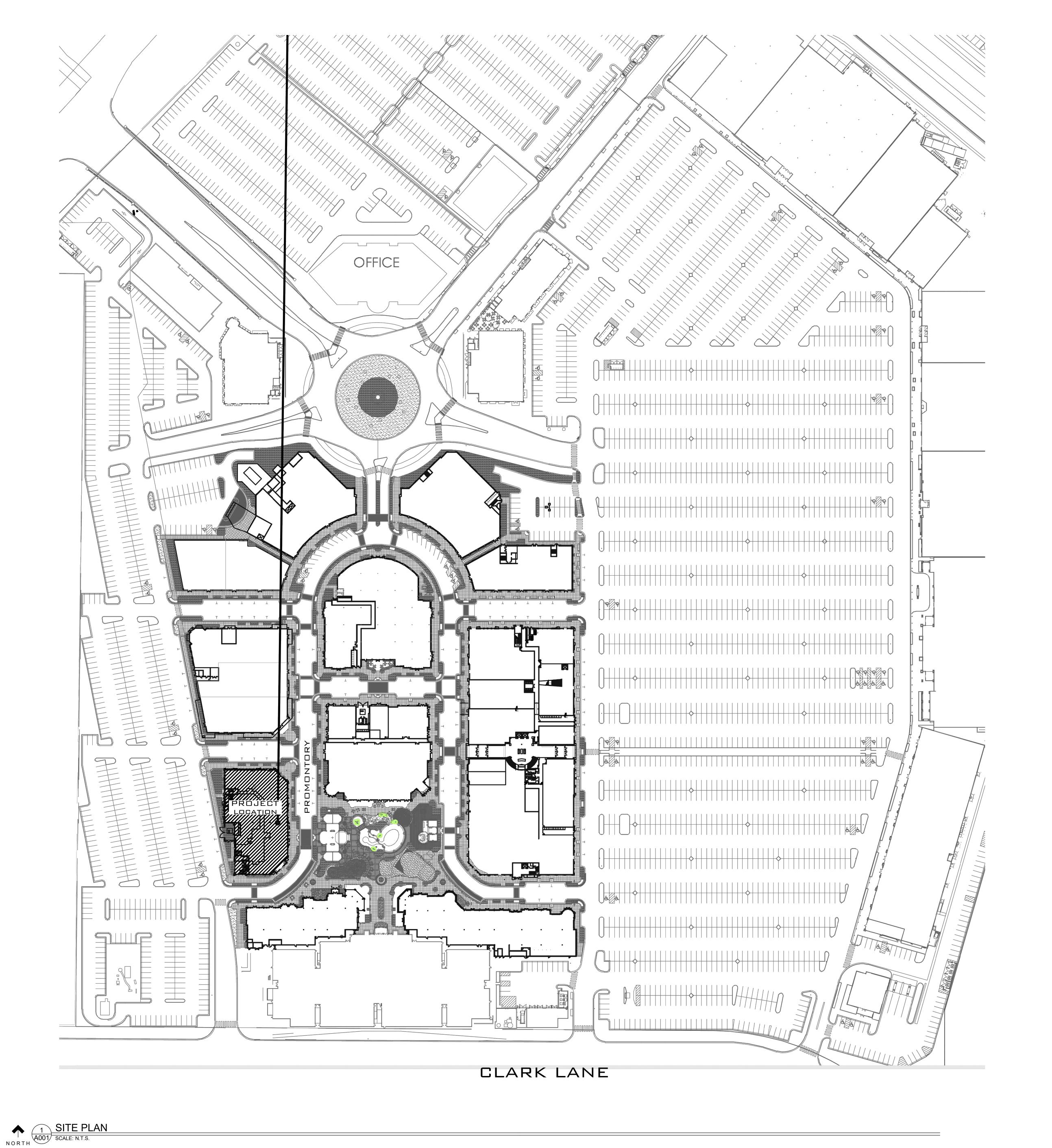
Building Construction Type

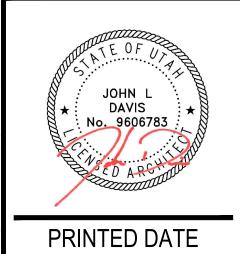
Stories Above Grade -

IBC Table 504.4

Allowable Area

IBC Table 506.2





09.14.2023

A R C H I T E C T SOOS EAST 2700 SOUTH | SUITE 200

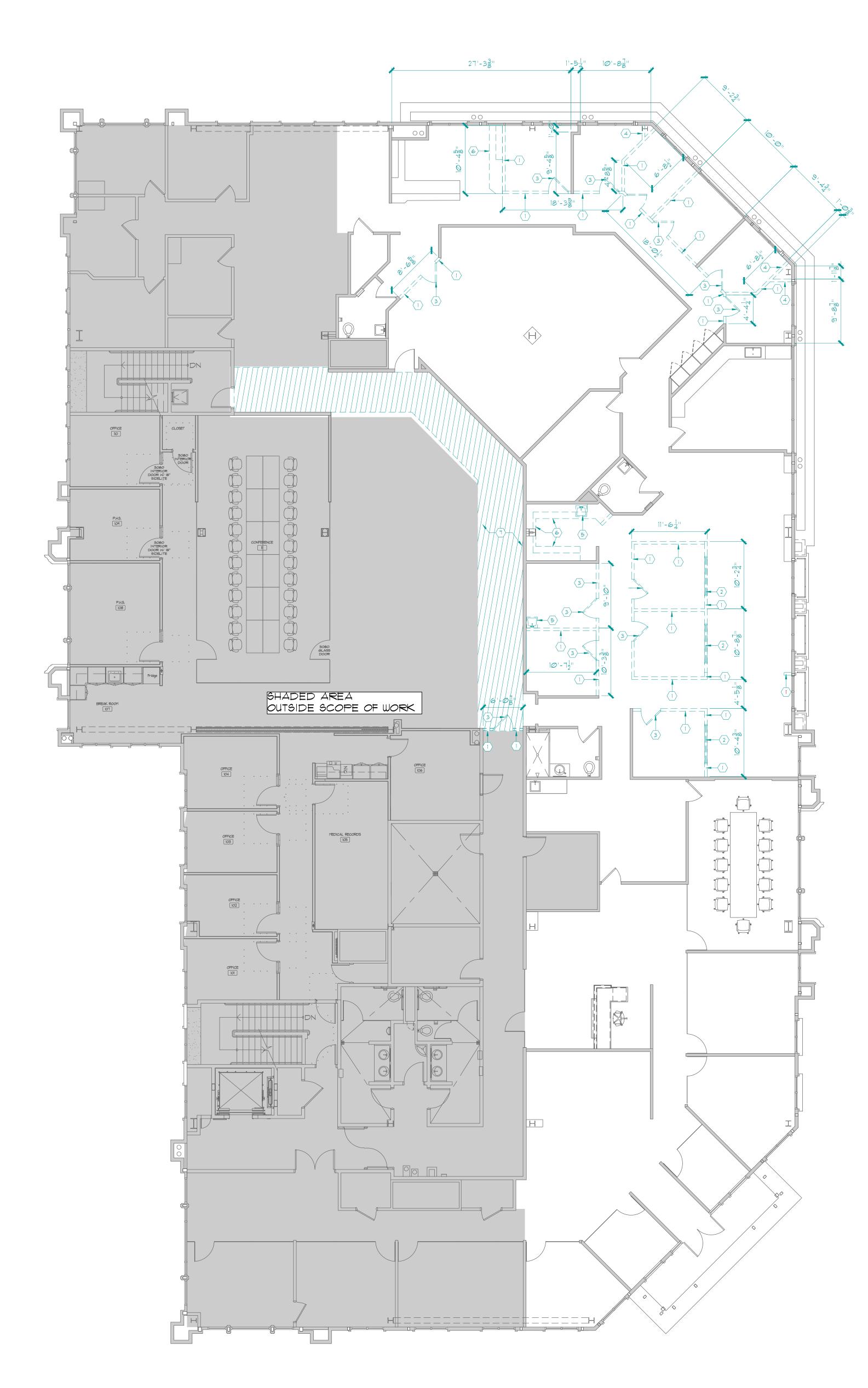
STATION PARK - F-320 SHIRE OFFICE REMODEL

CHRONOLOGY

PROJECT NO 23.117

DWN BY/ CHK BY

TITLE SITE PLAN



1 LEVEL 3 - SUITE F320 - DEMOLITION PLAN
D100 SCALE: 1/8"=1'-0"

LEGEND

EXISTING WALL SYSTEM TO BE DEMOLISHED

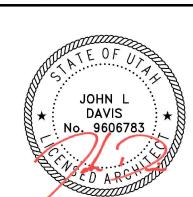
EXISTING WALL SYSEM TO REMAIN

GENERAL NOTES - DEMO

DASHED LINES INDICATE THE DEMOLITION OF INTERIOR WALLS, FIXTURES, AND DOORS. SPECIAL CARE MUST ME TAKEN TO AVOID DAMAGE TO WALLS NOT MARKED FOR DEMOLITION. PATCH AND REPAIR AS REQUIRED. EXISTING FLOOR OUTLETS MAY NEED TO BE ELIMINATED, CAPPED AND COVERED.

KEYED NOTES - DEMO

- 1) REMOVE EXISTING WALLS.
- 2 REMOVE EXISTING WINDOW.
- 3 REMOVE EXISTING DOOR.
- REMOVE EXISTING COLUMN COVERINGS, STRUCTURAL POSTS & COLUMNS TO REMAIN.
- (5) REMOVE EXISTING SINKS AND CAP PLUMBING LINES.
- REMOVE EXISTING MILLWORK, PATCH AND REPAIR WALL AS REQUIRED (ONLY ON WALLS THAT ARE TO REMAIN).
- REMOVE EXISTING FINISHES IN PREPARATION FOR CORRIDOR EXPANSION.



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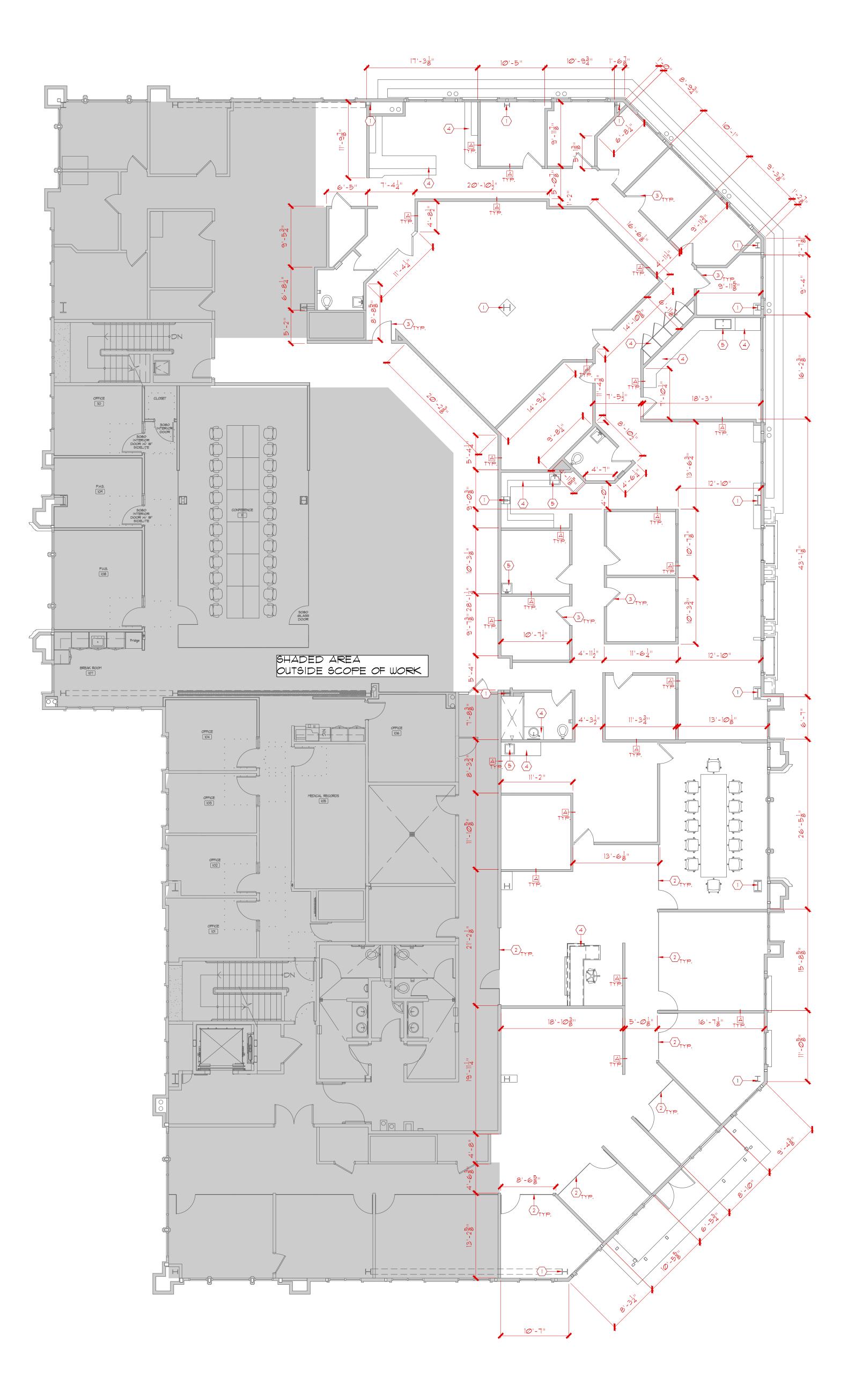
. - F-320 EMODEL FORY. STATION PARK -SHIRE OFFICE RE

CHRONOLOGY

PROJECT NO

DWN BY/ CHK BY

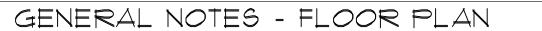
LEVEL 3 DEMOLITION PLAN



1 LEVEL 3 - SUITE F320 - EXISTING CONDITIONS PLAN EX100 SCALE: 1/8"=1'-0"

LEGEND

EXISTING WALLS



REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING.

. FIELD VERIFY EXISTING WALL DIMENSIONS. THE EXACT MEASUREMENTS MAY VARY.

KEY NOTES - FLOOR PLAN

- (1) EXISTING STRUCTURAL COLUMNS
- 2 EXISTING WINDOWS SYSTEMS
- 3 EXISTING DOORS
- 4 EXISTING MILLWORK

<u>A</u>——

5 EXISTING KITCHEN SINK

WALL TYPE LEGEND

EXISTING 4x'' STUD WALL @ 16" O.C. W/ $\frac{5}{6}$ " PAINTED GYP, BOARD ON EACH SIDE.

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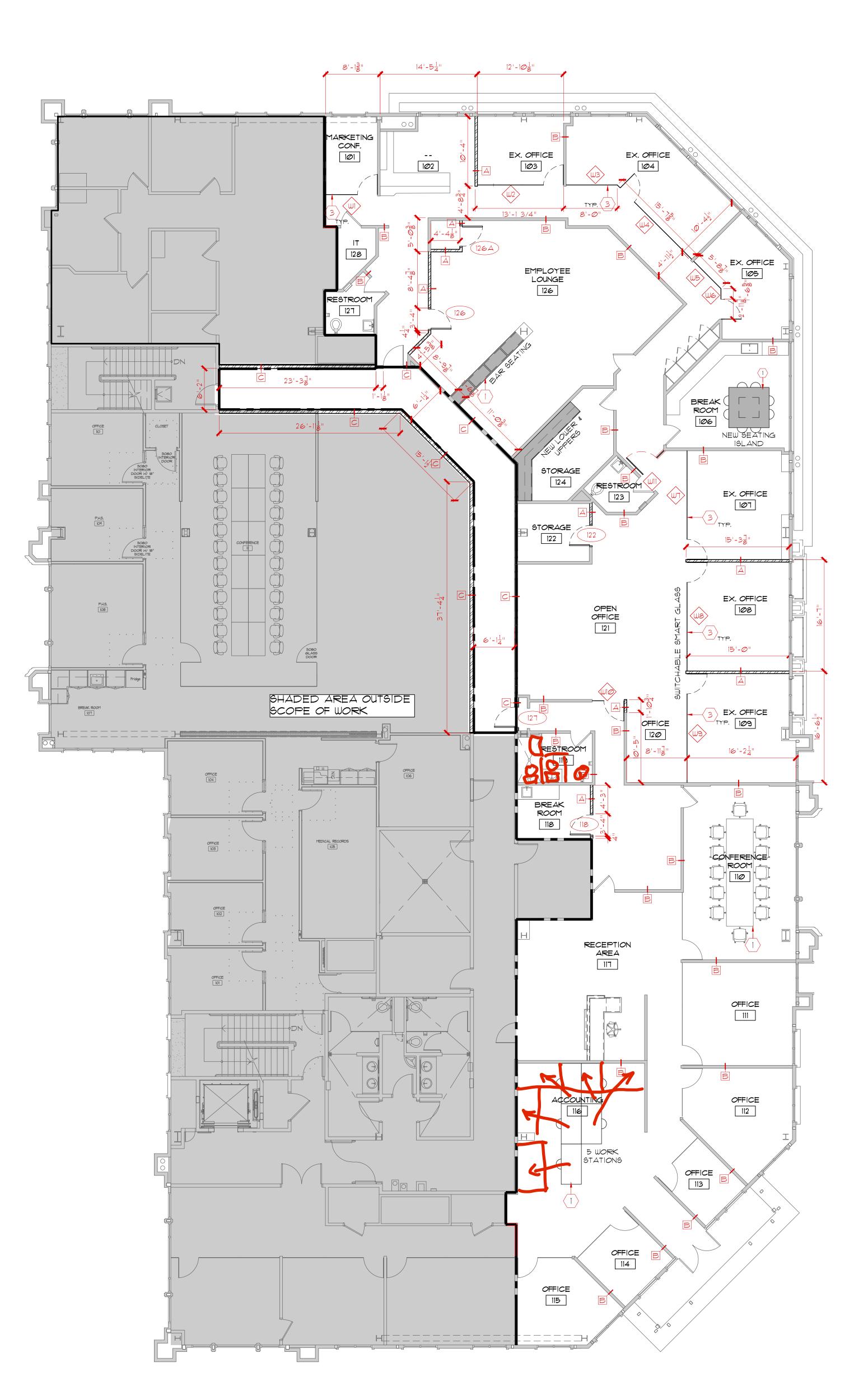
. - F-320 EMODEL FORY. STATION PARK-SHIRE OFFICE RE

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LEVEL 3 EXISTING CONDITIONS



GENERAL NOTES - FLOOR PLAN

- REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION, REMODELING OR ALTERATIONS AND ADDITIONS TO ANY BUILDING.
- FIELD VERIFY EXISTING WALL DIMENSIONS. THE EXACT MEASUREMENTS MAY VARY.
- 3. SEE SHEET A/502 FOR DOOR SCHEDULE
- 4. ALL WALLS TO BE TYPE "A" UNLESS OTHERWISE NOTED. 5. USE 5/8" MOISTURE RESISTANT GYPSUM BOARD ON ALL 'PLUMBED WET WALLS'.
- 6. ALL INTERIOR DRYWALL TO RECEIVE LEVEL 4 SMOOTH FINISH WITH 90° SQUARE CORNERS TO MATCH EXISTING WALL FINISHES.
- 1. ALL NEW INTERIOR WALLS TO RECEIVE SOUND ATTENUATION BATTING TO MATCH EXISTING WALLS.
- 8. BLOCKING AS NEEDED.
- 9. EXTEND WALL FROM FLOOR TO 6" ABOVE CEILING GRID OR TO HARD LID. BRACE AS NEEDED PER DETAIL

KEY NOTES - FLOOR PLAN

- (1) MILLWORK COLOR AND STYLE TO BE DETERMINED BY OWNER COUNTERTOP AT 34" AFF
- TRANSITION BETWEEN FINISHES TO BE STRIPLESS, FINISHES SHOULD MATCH IN HEIGHT EXACTLY. IF NOT, PROVIDE STAINLESS STEEL SCHLUTER STRIP AT TRANSITION.
- NEW FRAMELESS WINDOW SYSTEM EXACT SIZE TO MATC 3 EXISTING. ALL GLAZING WITHIN 24" OF FLOOR WILL BE TEMPERED..

LEGEND
 NEW INTERIOR METAL STUD WALL
EXISTING WALL TO REMAIN

l	WALL TYPE LEGEND
	NEW 2X INTERIOR METAL STUD WALL @ 16" O.C. W/ %" PAINTED GYP. BOARD ON EACH SIDE. WALL TO 6" ABOVE EXISTING CEILING GRID, BRACE WALL PER 3/AIØI
B	EXISTING 2X METAL STUD WALL @ 16" O.C.

W/ 3/ PAINTED GYP. BOARD ON INTERIOR SIDE. (TYP.) NEW 2X INTERIOR METAL STUD WALL © 16"
O.C. W/ %" PAINTED GYP. BOARD ON EACH
SIDE. WALL UP TO EXISTING DECK. PROVIDE
SLIP TRACK AS NEEDED.

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1465 WPROMONTC FARMINGTON, UT 8

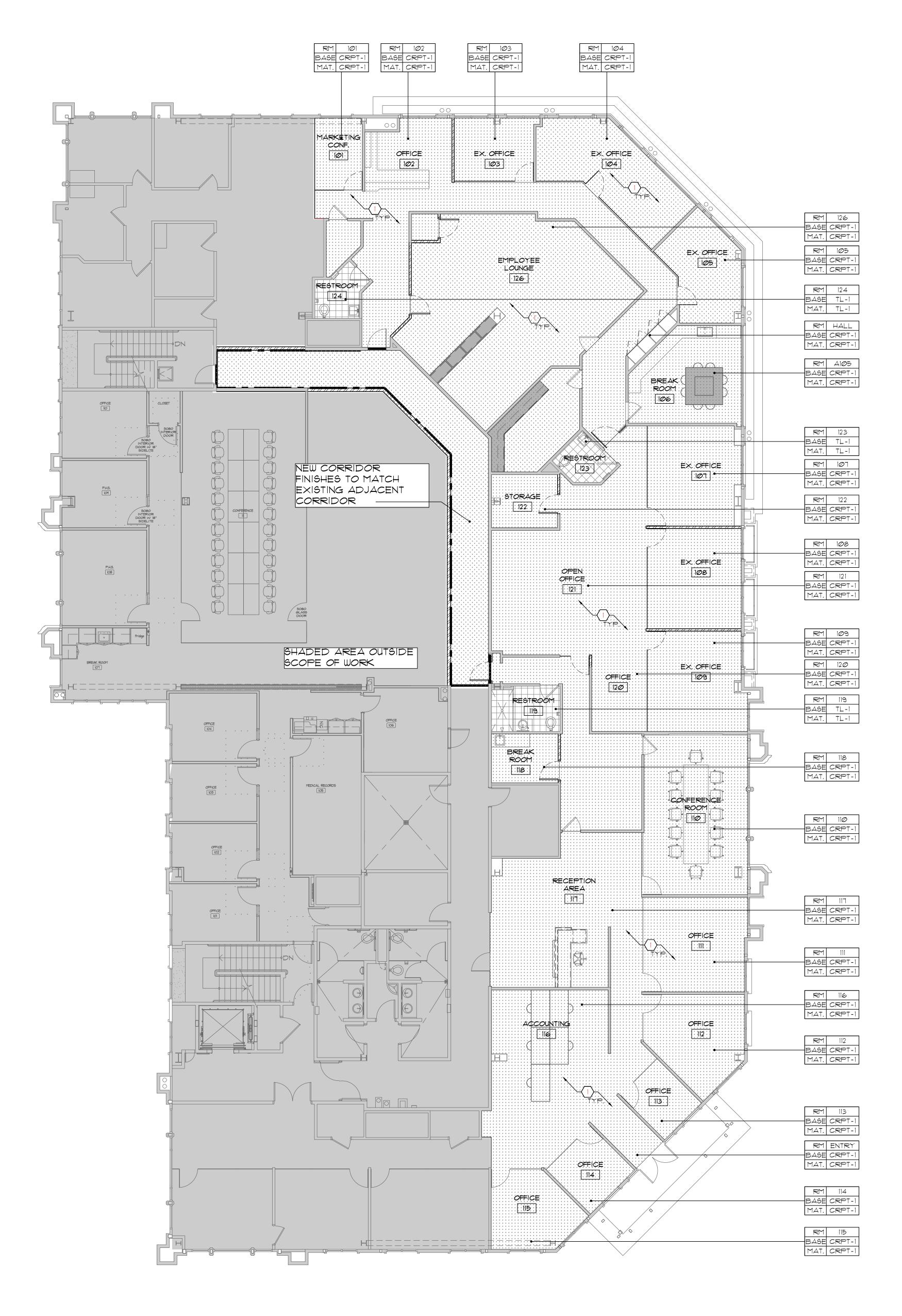
STATION PARK -SHIRE OFFICE RE

CHRONOLOGY

PROJECT NO 23.117

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TITLE LEVEL 3 PROPOSED FLOOR PLAN



1	LEVEL 3 - SUITE F320 - FLOOR FINISH PLAN	
A102	SCALE: 1/4"=1'-0"	=

FLOOR FINISH - MATERIAL LEGEND					
CODE	MATERIAL	MANUFACTURER	SERIES	COLOR	NOTES
CRPT-1	EXISTING CARPET				
TL-1	EXISTING CERAMIC TILE				

FLOOR FINISH - GENERAL NOTES IMMEDIATELY INFORM ARCHITECT OF ANY DISCREPANCIES AMONGST DISCIPLINES AND RESOLVE WITH WRITTEN CLARIFICATION BEFORE ANY WORK COMMENCES.
PROTECT EXISTING CARPET AND TILE FLOORING DURING

FLOOR FINISH - KEY NOTES

DEMOLITION.

EXISTING CARPET FLOORING TO BE REPAIRED WITH EXACTLY SAME MATERIAL AND COLOR WHERE DEMOLISHED WALLS WERE LOCATED. TO COORDINATE WITH G.C AND TENANT.

JOHN L DAVIS No. 9606783

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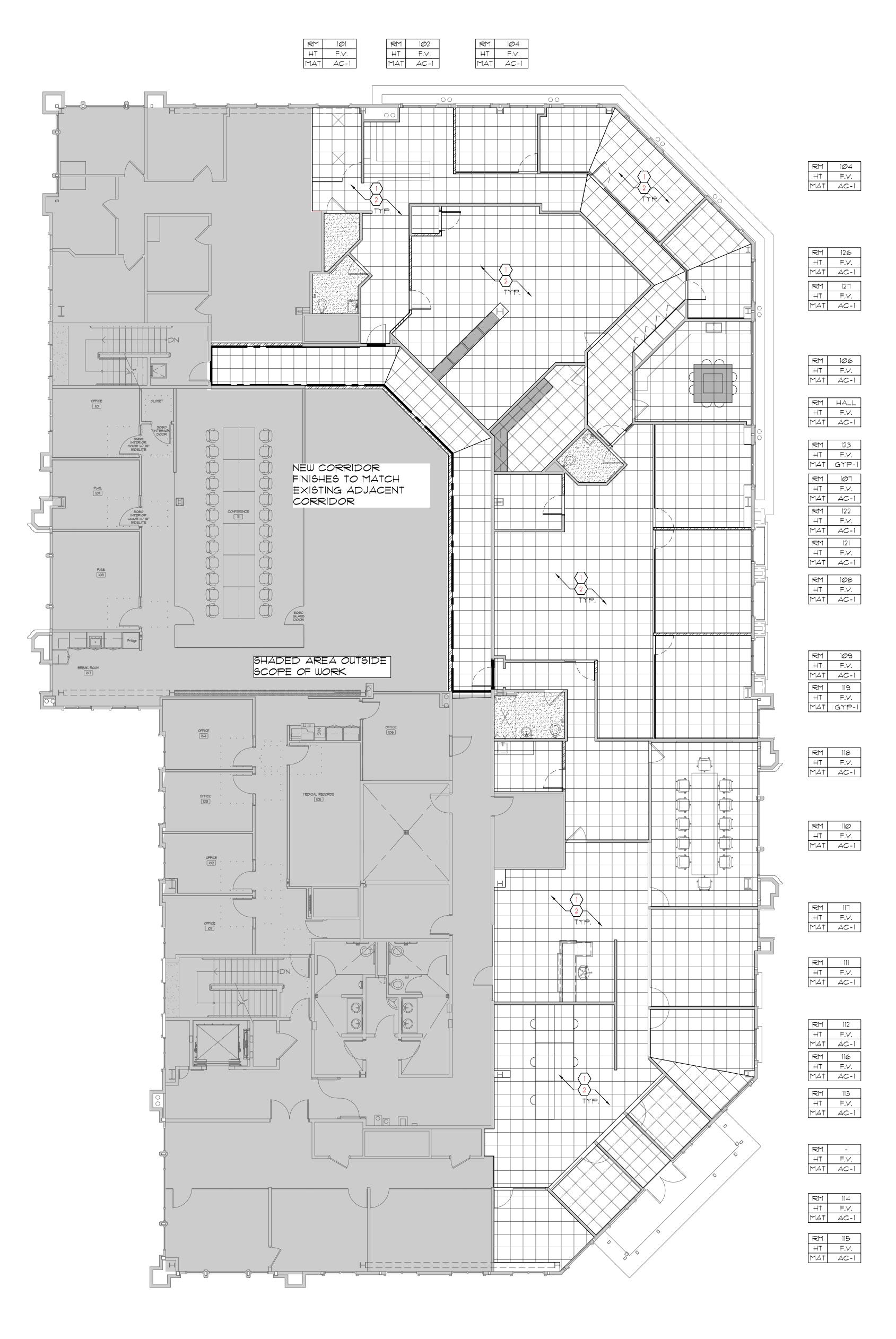
- F-320 EMODEI ORY. 8402 STATION PARK -SHIRE OFFICE RE 1465 WPROMONTC FARMINGTON, UT 8

CHRONOLOGY

PROJECT NO 23.117

DWN BY/ CHK BY

TITLE LEVEL 3 FLOOR FINISH PLAN



1 LEVEL 3 SUITE F320 - PROPOSED REFLECTED CEILING PLAN
A103 SCALE: 1/8"=1'-0"

	REFLECTED CEILING PLAN - MATERIAL LEGEND				
CODE	MATERIAL	MANUFACTURER	SERIES	COLOR	NOTES
GYP-I	EXISTING 5/8" GYPSUM BOARD				PAINTED
AC-1	EXISTING ACOUSTICAL CEILING GRID & TILE	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING

REFLECTED CEILING PLAN - GENERAL NOTES

- IMMEDIATELY INFORM ARCHITECT OF ANY DISCREPANCIES AMONGST DISCIPLINES AND RESOLVE WITH WRITTEN CLARIFICATION BEFORE ANY WORK COMMENCES. . ANY EXPOSED DUCT WORK, WIRES, ETC SHALL BE INSTALLED IN A CLEAN ORDERLY FASHION, NO DEFECTIVE OR DAMAGED PRODUCTS SHALL BE INSTALLED.
- REFER TO MECHANICAL DRAWINGS FOR DUCT DISTRIBUTION.
 REFER TO ELECTRICAL DRAWINGS FOR LIGHTING DISTRIBUTION.

CEILING - KEY NOTES

- EXISTING GRID & CEILING SYSTEM TO BE REPAIRED WITH EXACTLY SAME MATERIAL AND COLOR WHERE DEMOLISHED WALLS WERE LOCATED. TO COORDINATE WITH G.C AND TENANT.
- $\overline{2}$ for New Lights and HVAC vents coordinate with Mechanical and ELECTRICAL PLANS.



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- F-320 EMODEI STATION PARK -SHIRE OFFICE RE 1465 WPROMONTC FARMINGTON, UT 8

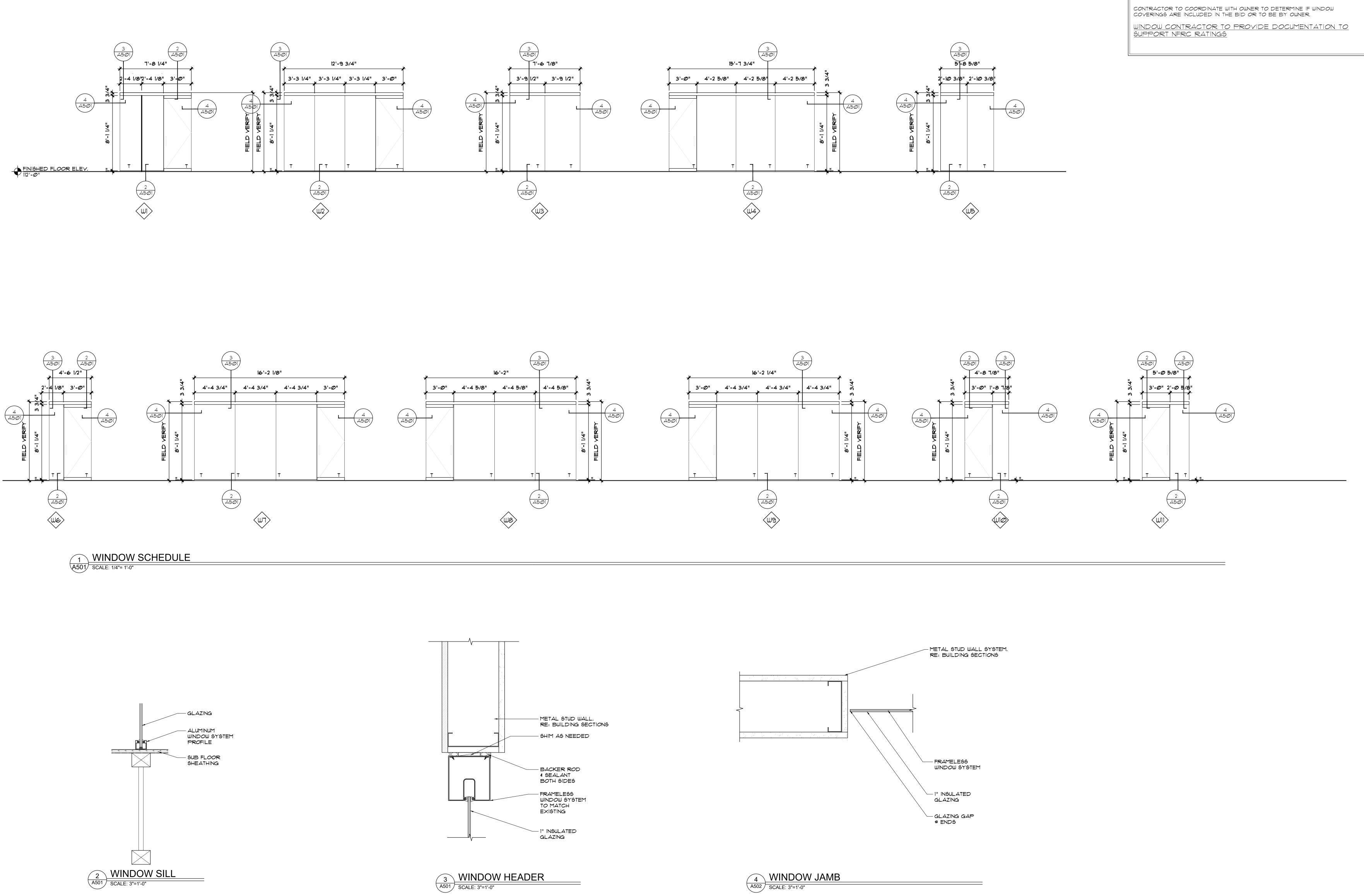
CHRONOLOGY

PROJECT NO 23.117

DWN BY/ CHK BY

TITLE

LEVEL 3 PROPOSED REFLECTED CEILING PLAN



WINDOW NOTES:

ALL NEW WINDOW SYSTEMS ARE TO MATCH THE EXISTING STOREFRONT SYSTEMS EXACTLY.

GLAZING - TO MATCH EXISTING GLAZING EXACTLY

ALL DOOR & WINDOW SIZES SHOWN ON THIS DRAWING AREA ACTUAL DOOR AND WINDOW SIZES. CONTRACTOR AND CONTRACTOR'S FRAMER TO DETERMINE ROUGH OPENING SIZES THAT ACCOUNT FOR MANUFACTURER'S RECOMMENDATIONS.

'T' DENOTES TEMPERED GLAZING

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- F-320 EMODEI 1465 WPROMONTC FARMINGTON, UT 8

CHRONOLOGY

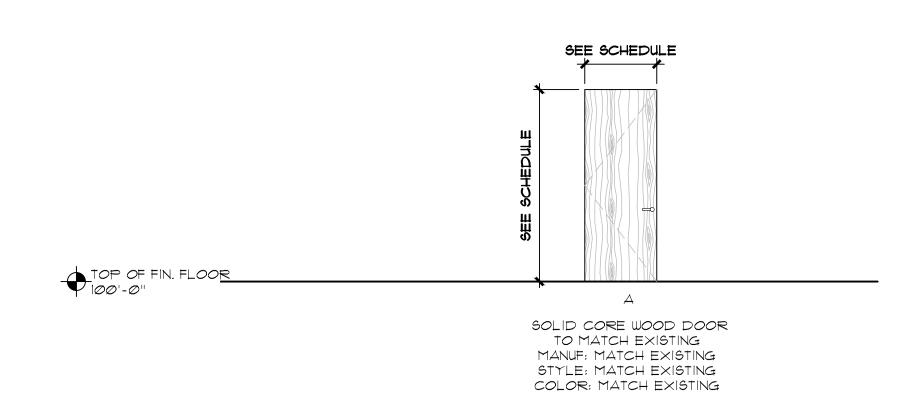
PROJECT NO 23.117

DWN BY/ CHK BY

TITLE WINDOWS & DETAILS SCHEDULE

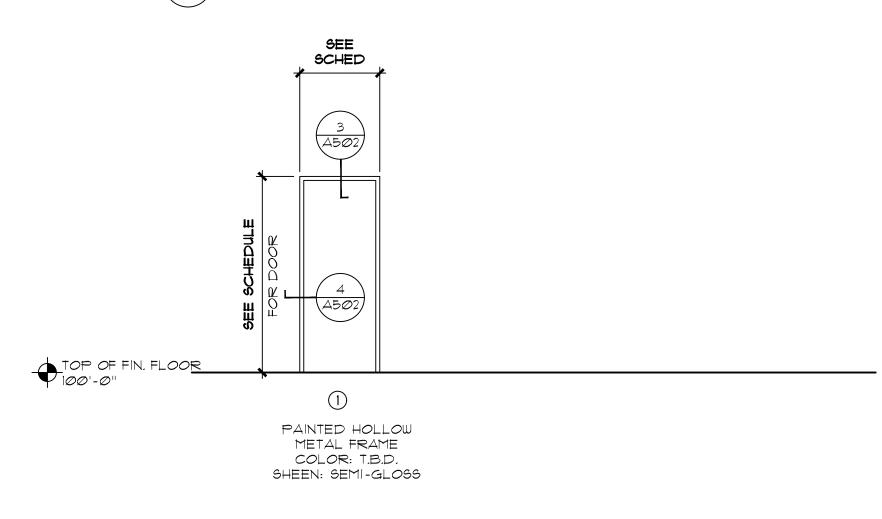
30X42 SHEET#

A501



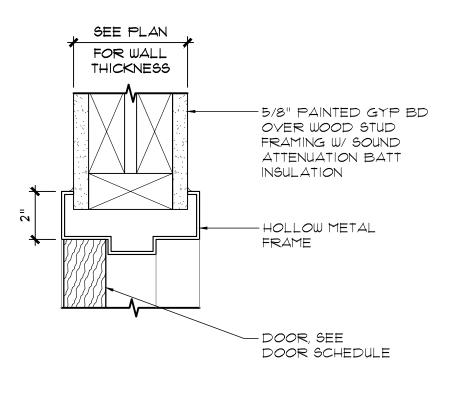
1 DOOR TYPES (VERIFY ALL WALL THICKNESSES FOR DEPTH OF DOOR FRAME)

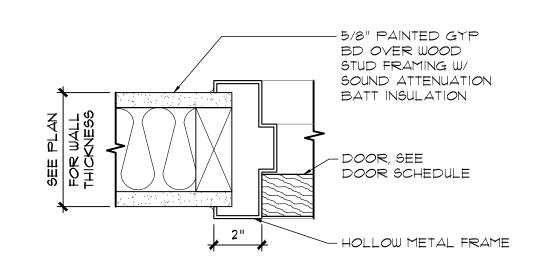
A502 SCALE: 1/4"=1'-0"



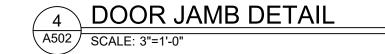
PRAME TYPES (VERIFY ALL WALL THICKNESSES FOR DEPTH OF DOOR FRAME)

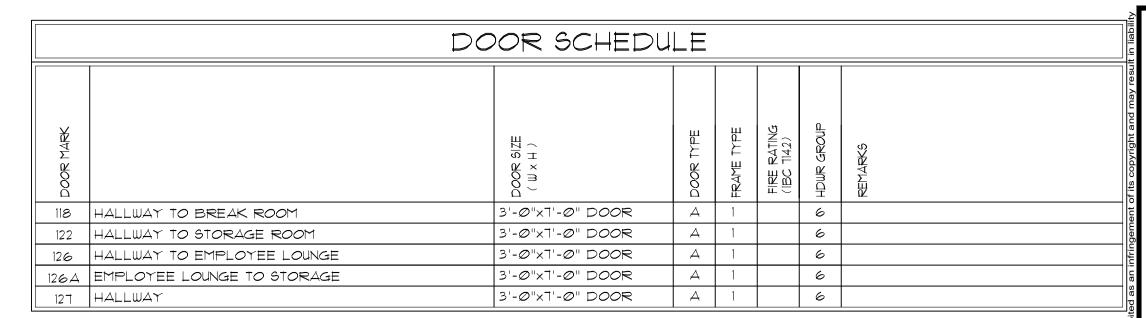
SCALE: 1/4"=1'-0"











DOOR HARDWARE NOTES

-ALL STOREFRONT DOORS TO BE EQUIPPED WITH ALL NECESSARY HARDWARE AS PART OF THE DOOR SYSTEM. THE DOOR HARDWARE

-CONTRACTOR TO VERIFY ALL WALL THICKNESS FOR DEPTH OF DOOR FRAME PRIOR TO ORDERING. IDENTIFY THICKNESS OF SHEAR WALLS

HARDWARE GROUP 1

HARDWARE GROUP 2

(3) EA. HINGES

(1) EA. CLOSER

(3) EA. HINGES

(1) EA. CLOSER

HARDWARE GROUP 4

(3) EA. HINGES (1) EA. PUSH PLATE (1) EA. PULL HANDLE

HARDWARE GROUP 5

(1) LOCKSET

HARDWARE GROUP 6

(3) EA. HINGES

HARDWARE GROUP I PASSAGE LATCH

(3) EA. HINGES

(1) EA. CLOSER

(3) EA. HINGES - DBL.

(1) EA. CLOSER - DBL. (2) CENTER CATCH LATCH

HARDWARE GROUP 8

HARDWARE GROUP 9

(3) EA. HINGES

(1) EA. CLOSER (1) CARD READER

HARDWARE GROUP 3

(1) EA. PASSAGE LOCKSET

(1) EA. STORAGE LOCKSET

(2) EA. HINGES / DBL. SWING

WITH KEY OR BY ROTATING INSIDE LEVER.

DBL. SWINGING DOORS - PASSAGE LATCH

DOOR HARDWARE

STOREFRONT SYSTEM AND THEIR RESPECTIVE HARDWARE IS TO BE PROVIDED AS PART OF THE DOOR SYSTEM. AUTO-OPEN SYSTEM, THUMB

RESTROOM PRIVACY LOCKSET (SAME ON ALL RESTROOMS). PUSH BUTTON LOCKING, CAN BE OPENED FROM OUTSIDE WITH SMALL SCREWDRIVER.

EXTERIOR LOCKSET. PUSH PLATE AND PULL HANDLE ARE TO BE MOUNTED 36" A.F.F., MEASURED FROM CENTER PER ANSI 117.1-2009 AND THE IBC

OFFICE LOCKSET - PUSH BUTTON LOCKS OUTSIDE LEVER UNTIL UNLOCKED

(1) EA. WALL STOP

(1) VISUAL OCCUPANCY INDICATOR

(1) EA. WALL STOP

(1) CARD READER

(3) EA. SILENCERS

(3) EA. SILENCERS(1) EA. WALL STOP(1) EA. CLOSER

(1) EA. WALL STOP (2) EA. SILENCERS

(1) EA. WALL STOP (3) EA. SILENCERS

(1) EA. WALL STOP (3) EA. SILENCERS

(1) EA. WALL STOP - DBL. (3) EA. SILENCERS - DBL.

(3) EA. SILENCERS

LOCK, DOORS WILL LOCK FROM THE INSIDE.

TURNING LEVER OR CLOSING DOOR RELEASE BUTTON.

SHOULD INCLUDE LOCKING MECHANISM, SINGLE ACTION CRASH BAR FOR EXITING, THRESHOLD, DOOR SWEEP AND DOOR STOP

-ALL DOOR SYSTEMS TO RECEIVE HARDWARE PER THEIR MANUFACTURE'S SPECIFICATIONS

-CONTRACTOR TO ENGURE ALL DOORS ARE TESTED FOR A MAX OPENING FORCE OF 5 LBS

-COORDINATE ROUGH OPENING SIZES WITH DOOR MANUFACTURER TO OBTAIN EXACT ROUGH OPENING SIZES.

-ALL DOORS, DOOR FRAMES, FINISHES & HARDWARE TO BE DETERMINED BY SUBMITTAL PRIOR TO PURCHASE.

-ALL DOORS TO RECEIVE HANDLES AND ARE TO BE ADA COMPLIANT

-ALL DOOR HARDWARE TO BE GRADE I

-VERIFY CARD READER ACCESS WITH TENANT

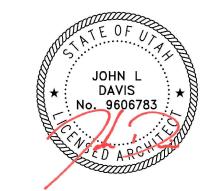
-VERIFY KEY LOCK LOCATIONS WITH TENANT

-ALL DOORS TO RECEIVE CLOSERS

LEVER TYPE DEVICES

-"T" DENOTES TEMPERED GLAZING

AND WALL FINISHES



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CHRONOLOGY

TEMPERED GLASS DOORS. LOCKSET / MOTION SENSOR TO WAITING AREA.

(1) EA. WALL STOP (3) EA. SILENCERS (1) MOTION SENSOR

HARDWARE GROUP 10 EXTERIOR LOCKSET (3) EA, HINGES

(1) EA. PULL HANDLE

(1) EA. WALL STOP (1) EA. CLOSER (1) EA. EMERGENCY EXIT DEVICE

HARDWARE GROUP 11 INTERIOR POCKET DOOR HARDWARE

(4) DOOR BUMPERS (1) EA, PULL HANDLE

> PROJECT NO 23.117

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DOOR & DETAILS SCHEDULE

EWT ENTERING WATER TEMPERATURE

P PUMP

POLYETHYLENE

EWS EYE WASH STATION

AAV AIR ADMITTANCE VALVE

AUTOMATIC AIR VENT

BARE SHEET METAL RECTANGULAR DUCT

'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS.

'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS.

'A' AND 'B' ARE INSIDE CLEAR DIMENSIONS.

'A' IS WIDTH OF DUCT IN VIEW SHOW.

'A' IS WIDTH OF DUCT IN VIEW SHOW.

'A' IS WIDTH OF DUCT IN VIEW SHOWN.

LPG LIQUEFIED PETROLEUM GAS

LWT LEAVING WATER TEMPERATURE

MBH THOUSAND BTU PER HOUR

MC MECHANICAL CONTRACTOR

LS LIFT STATION

L/S LITERS PER SECOND

MD MANUAL DAMPER

MU MAKE-UP AIR UNIT

NIC NOT IN CONTRACT

NTS NOT TO SCALE

OA OUTSIDE AIR

OC ON CENTER

OW OIL WASTE

NATGAS NATURAL GAS

OBD OPPOSED BLADE DAMPER

OAD OVERFLOW AREA DRAIN

ORD OVERFLOW ROOF DRAIN

MECH MECHANICAL

MH MANHOLE

MS MOP SINK

DH DUCT HEATER

DIA DIAMETER

DN DOWN

DWG DRAWING

EA EXHAUST AIR

EF EXAHUST FAN

EL ELEVATION

EQ EQUIPMENT

ET EXPANSION TANK

EUH ELECTRIC UNIT HEATER

ESP EXTERNAL STATIC PRESSURE

EWC ELECTRIC WATER COOLER

EXTERIOR SUMP PUMP

DHW DOMESTIC HOT WATER

DWV DOMESTIC WASTE & VENT

EAT ENTERING AIR TEMPERATURE

ELECTRICAL CONTRATOR EVAPORATIVE COOLER

SA"ØBARE SHEET METAL ROUND MEDIUM OR LOW PRESSURE DUCT, A"Ø IS DIAMETER. $SA''\emptyset$ 1 1/2" WRAPPED ROUND MEDIUM OR LOW PRESSURE DUCT, A"Ø IS DIAMETER. -DIRECTION OF AIRFLOW SUPPLY DUCT RISER × SUPPLY DUCT DROP RETURN, EXHAUST, OR OUTSIDE AIR DUCT RETURN, EXHAUST, OR OUTSIDE AIR DUCT ROUND DUCT DROP ROUND DUCT RISER MANUAL VOLUME DAMPERS (SQUARE OR ROUND) MOTORIZED DAMPER OR FIRE/SMOKE DAMPER DUCT ACCESS DOOR INTAKE LOUVER WITH BIRDSCREEN EXHAUST LOUVER WITH BIRDSCREEN FIRE DAMPER SLOT DIFFUSER SQUARE DIFFUSER DUCT MOUNTED GRILLE (RECTANGULAR) ROUND DIFFUSER 24x24 RETURN AIR GRILLE 24x12 RETURN AIR GRILLE THERMOSTAT OR SENSOR **HUMIDITY SENSOR** CLEAN OUT COMPRESSED AIR 5— A — ≤ ⊱—CD— CONDENSATE DRAIN CONDENSATE RETURN ⊱—CR— ⊱—CWR— CONDENSER WATER RETURN CONDENSER WATER SUPPLY ⊱—CWS— ⊱-CHWR--CHILLED WATER RETURN CHILLED WATER SUPPLY ⊱-CHWS--HOT WATER RECIRCULATION LINE HOT WATER RETURN ⊱—HWR—≤

--HWS---

---- G ------

----OD-----⊚

⊱—RD—⊸

5---- S ------

-SCW--

SHW—

└──V

HOT WATER SUPPLY

OVERFLOW ROOF DRAIN

NATURAL GAS

ROOF DRAIN

SOFT COLD WATER

SOFT HOT WATER

VENT THROUGH ROOF

VENT LINE

AxB

AxB

AxB -

5—140° — ≤ 1" LINED SHEET METAL RECTANGULAR DUCT, OR 1" FIBERGLASS DUCT, SEE DRAWINGS FOR TYPE, 5—160° — ≤ 1 1/2" WRAPPED SHEET METAL RECTANGULAR DUCT, **└──** $\leftarrow \bigcirc$ $\longrightarrow \overline{\bigvee}$ 5—17—5 INSULATED ROUND FLEXIBLE DUCT, 5 FEET MAXIMUM. \longrightarrow 120° F. HOT WATER

140° F. HOT WATER

160° F. HOT WATER

BUTTERFLY VALVE

ABOVE GROUND SANITARY SEWER

UNDERGROUND HOT WATER (120° F.)

UNDERGROUND COLD WATER

ABOVE GROUND COLD WATER

CONNECTION OFF TOP

CAPPED END

WATER HAMMER ARRESTER

VACUUM

BALL VALVE GATE VALVE CHECK VALVE PLUG VALVE 2-WAY AUTO VALVE 3-WAY AUTO VALVE THERMOMETER **GAUGE** UNION STRAINER 5-1-5 **>—**⊗—--**├ √**

BALANCING VALVE RELIEF VALVE **BACKFLOW PREVENTER** PIPE ANCHOR DIRECTION OF FLOW EXPANSION JOINT **----**FLEXIBLE CONNECTION **├──** PIPING TEE DROP TO BELOW \hookrightarrow PIPING ELBOW DROP C-----PIPING ELBOW RISER UNDERGROUND SANITARY SEWER

⊱—SS—∹ RECTANGULAR ELBOW WITH TURNING VANES ⊱—SS—∽ BARE SHEET METAL ROUND MEDIUM OR LOW <u>∽</u>#——⊬

ABOVE GROUND HOT WATER HOSE BIBB FLOOR DRAIN ⊱—SS—⊜ FLOOR SINK FIRE HYDRANT GLOBE VALVE CONNECTION OFF SIDE CONNECTION OFF BOTTOM

GENERAL NOTES

A. THESE DRAWINGS WERE PREPARED USING THE 2018 IBC, 2018 IMC, 2018 IPC, 2018 IFGC, 2018 IECC, AND THE 2018 UTAH

ALL INSTALLATIONS SHALL BE PER THE 2018 IBC, 2018 IMC, 2018 IPC, 2018 IFGC, 2018 IECC, AND THE 2018 UTAH BUILDING

THESE DRAWINGS ARE TO SHOW THE GENERAL CONCEPT OF THE SYSTEMS, FIELD VERIFY ALL LOCATIONS AND COORDINATE

REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, LIGHTS, CEILING DIFFUSERS, AND

ALL DUCT SIZES LISTED IN THESE DRAWINGS ARE INSIDE CLEAR DIMENSIONS UNLESS NOTED OTHERWISE.

SLOPE ALL HORIZONTAL SANITARY WASTE AND VENT PIPING A MINIMUM OF A 1/4" PER FOOT FOR 2 1/2" AND SMALLER. 1/8" PER FOOT FOR 3" TO 6", AND 1/16" FOR 8" AND LARGER.

G. SLOPE ALL HORIZONTAL ROOF DRAINAGE PIPING A MINIMUM OF A 1/8" PER FOOT UNLESS NOTED OTHERWISE.

ALL MATERIALS INSTALLED IN AN AREA ABOVE THE CEILING DESIGNATED AS A RETURN AIR PLENUM MUST BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.

ALL UNDERGROUND DUCT SHALL SLOPE TO ALLOW DRAINAGE TO A POINT PROVIDED WITH ACCESS

PROVIDE CLEANOUTS EVERY 100 FEET ON HORIZONTAL WASTE LINES, EVERY CHANGE OF DIRECTION GREATER THAN 45°, AT THE BASE OF WASTE STACKS, AND NEAR THE POINT THE SEWER ENTERS THE BUILDING.

SEISMIC RESTRAINTS ARE REQUIRED PER 2018 IBC. BY WAY OF DEFERRED SUBMITTAL, THE ENGINEERING AND RESTRAINT SELECTION ARE THE RESPONSIBILITY OF THE MECHANICAL AND PLUMBING CONTRACTORS, INCLUDING EQUIPMENT CALLED OUT AS LISTED WITHIN THE DEFERRED SUBMITTAL AGREEMENT.

PIPE EXPANSION JOINTS IN THE VERTICAL RISERS AND HORIZONTAL RUNS ARE THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. FOLLOW THE INSTALLTION RECOMMENDATIONS FOR EACH PIPE MANUFACTURER. EXPANSION JOINTS SHOWN IN THE DRAWINGS ARE MINIMUM REQUIREMENTS AND WILL VARY BASED ON ACTUAL PIPE ROUTING. IF DESIGN ASSITANCE IS NEEDED PLEASE CONTACT JTB.

M. FIRESTOPPING DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR.

N. AS-BUILT DRAWINGS SHALL BE PROVIDED TO THE OWNER OR OWNERS REPRESENTATIVE WITHIN 90 DAYS OF CERTIFICATION

O&M MANUALS FOR THE PROJECT SHALL BE PROVIDED TO THE OWNER OR OWNERS REPRESENTATIVE WITHIN 90 DAYS OF CERTIFICATION OF OCCUPANCY AND INCLUDE THE FOLLOWING ITEMS: EQUIPMENT SUBMITTALS, MANUFACTURES O&M'S, NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY, HVAC AND SERVICE HOT WATER CONTROLS MAINTENANCE AND CALIBRATION INFORMATION, AND A NARRATIVE OF HOW EACH PIECE OF EQUIPMENT IS TO OPERATE INCLUDING SETPOINTS.

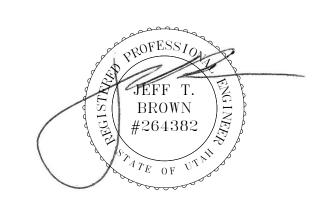
P. PROVIDE AIR AND WATER BALANCING REPORTS TO BUILDING INSPECTOR PRIOR TO FINAL INSPECTION.

SHEET INDEX

SHEET # SHEET TITLE

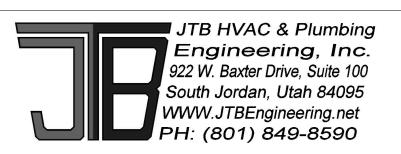
M000 MECHANICAL TITLE SHEET M103 MECHANICAL LEVEL 3 PLAN M104 MECHANICAL ROOF LEVEL PLAN M701 MECHANICAL DETAILS & SCHEDULES

BUILDING UTILITY INFORMATION



PERMIT SET

REV Date Revision Description		Revision Description
	09/08/23	ISSUED FOR PERMIT



STATION PARK - F-320 SHIRE OFFICE REMODEL

FARMINGTON, UT 84025

DRAWING TITLE:

MECHANICAL TITLE SHEET

OB NO.:	23.236	SHEET NUMBER
ATE:	09/08/2023	14000
RAWN BY:	MRM	M000
CALE:		111333

MATERIAL SPECIFICATIONS

MECHANICAL SPECIFICATIONS (UNLESS NOTED OTHERWISE ON PLANS)

LOW PRESSURE RECTANGULAR DUCT SUPPLY DUCT - SINGLE WALL SHEET METAL WITH 1" LINER. RETURN DUCT - SINGLE WALL SHEET METAL WITH 1" LINER.

LOW PRESSURE ROUND DUCT

EXHAUST DUCT - SINGLE WALL SHEET METAL.

WCO WALL CLEANOUT

WH WATER HEATER

WHA WATER HAMMER ARRESTOR

WPR WATER PRESSSURE REGULATOR

WSFU WATER SUPPLY FIXTURE UNITS

SUPPLY DUCT - SINGLE WALL SHEET METAL WITH 1 1/2" INSULATION WRAP. RETURN DUCT - SINGLE WALL SHEET METAL WITH 1 1/2" INSULATION WRAP. EXHAUST DUCT - SINGLE WALL SHEET METAL. COMBUSTION AIR DUCT - SINGLE WALL SHEET METAL

BELOW GRADE DUCT (ROUND OR RECTANGULAR)

SUPPLY DUCT - SINGLE WALL SHEET METAL WITH PVS COATING. RETURN DUCT - SINGLE WALL SHEET METAL WITH PVS COATING.

SINGLE WALL - ALUMINUM SINGLE WALL (SEE DRAWINGS FOR LOCATIONS). DOUBLE WALL - ALUMINUM B-VENT PIPE.

PLUMBING SPECIFICATIONS (UNLESS NOTED OTHERWISE ON PLANS)

ABOVE GRADE PIPING

SANITARY WASTE - SCH40 PVC DWV PIPE WITH SOLVENT GLUED DWV FITTINGS. SANITARY VENT - SCH40 PVC DWV PIPE WITH SOLVENT GLUED DWV FITTINGS. DOMESTIC COLD WATER - 1-1/2" AND SMALLER - BLUE PEX TUBING WITH POLYALLOY CRIMPED FITTINGS.

DOMESTIC COLD WATER - 2" AND LARGER - AQUATHERM OR CPVC PIPE WITH

1" FIBERGLASS INSULATION. CONDENSATE DRAINS - (INSIDE) SCH40 PVC WITH SOLVENT CEMENT JOINTS. CONDENSATE DRAINS - (OUTSIDE) TYPE 'M' CU TUBING WITH SOLDER JOINTS. NATURAL GAS - 2" AND UNDER SCH 40 BLACK PIPE WITH THREADED JOINTS.

NATURAL GAS - 2 1/2" AND OVER SCH 40 BLACK PIPE WITH WELDED JOINTS.

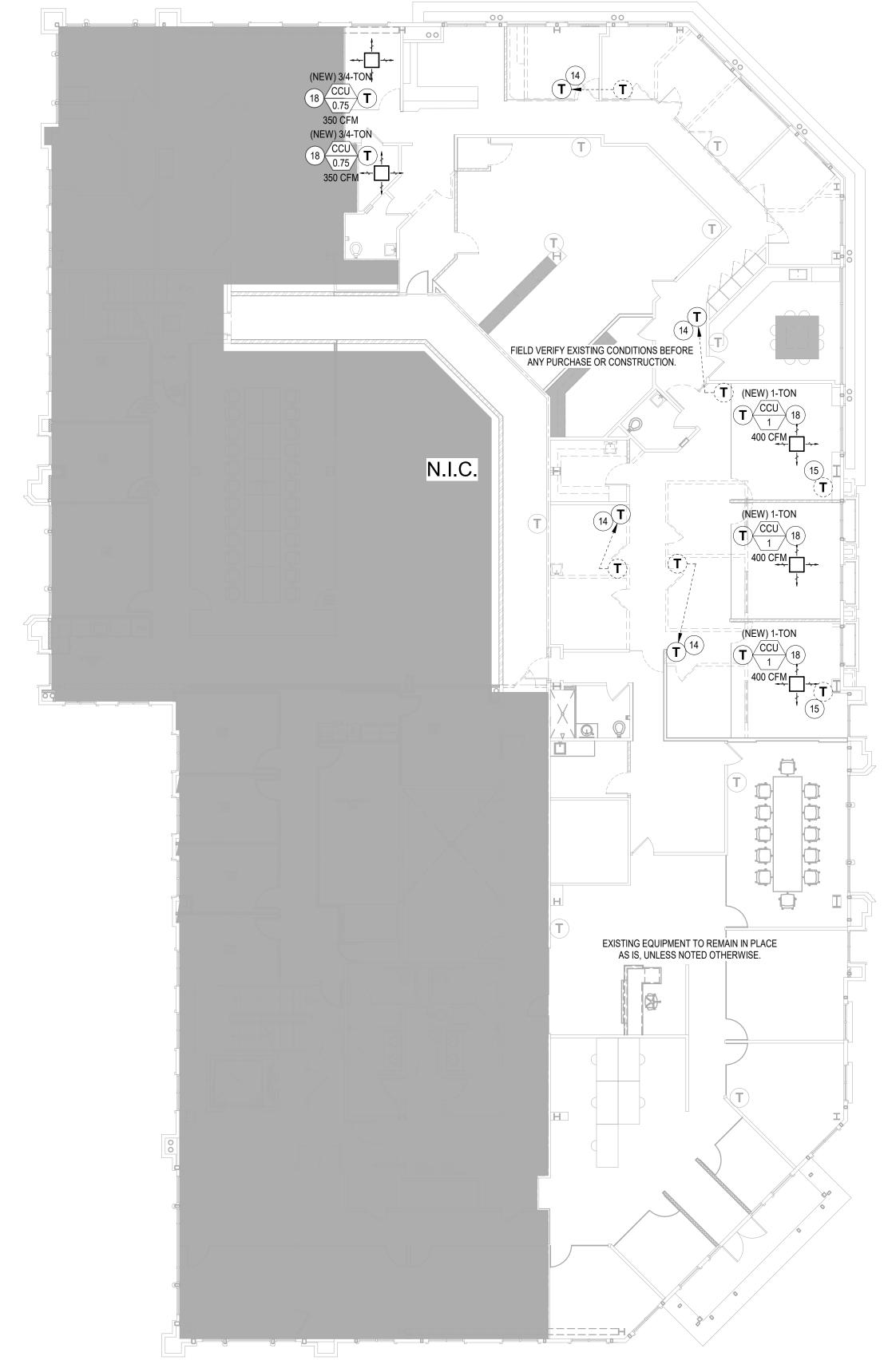
DOMESTIC HOT WATER - RED PEX TUBING WITH POLY ALLOY CRIMPED FITTINGS.

BELOW GRADE PIPING

SANITARY WASTE - SCH40 PVC DWV PIPE WITH SOLVENT GLUED DWV FITTINGS. ROOF DRAINS - SCH40 PVC DWV PIPING WITH SOLVENT GLUED DWV FITTINGS. DOMESTIC WATER - TYPE 'K' COPPER TUBING WITH LEAD-FREE SOLDER JOINTS.

DOMESTIC PIPING INSULATION

1" FIBERGLASS INSULATION FOR PIPING 1 1/4" AND SMALLER. 1 1/2" FIBERGLASS INSULATION FOR PIPING 1 1/2" AND LARGER.



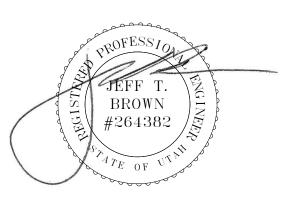


NORTH
A
LEVEL 3 MECHANICAL PLAN

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

MECHANICAL KEYED NOTES

- 14 RELOCATE EXISTING VAV THERMOSTAT TO THIS LOCATION. VERIFY NEW LOCATION IS STILL WITHIN THE SAME EXISTING COOLING CONTROL ZONE.
 - DEACTIVATE AND STORE EXISTING VAV THERMOSTAT ABOVE CEILING WITH ITS CONNECTED VAV BOX. EXISTING VAV BOX TO REAMIN IN PLACE ABOVE CEILING.
- 18 INSTALL CEILING-MOUNTED UNIT, ACCORDING TO MANUFACTURER'S INSTRUCTIONS, WITHIN THE EXISTING CEILING.



PERMIT SET

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REV	V Date Revision Description	
	09/08/23	ISSUED FOR PERMIT



JTB HVAC & Plumbing
Engineering, Inc.
922 W. Baxter Drive, Suite 100
South Jordan, Utah 84095
WWW.JTBEngineering.net
PH: (801) 849-8590

PROJECT NAME:

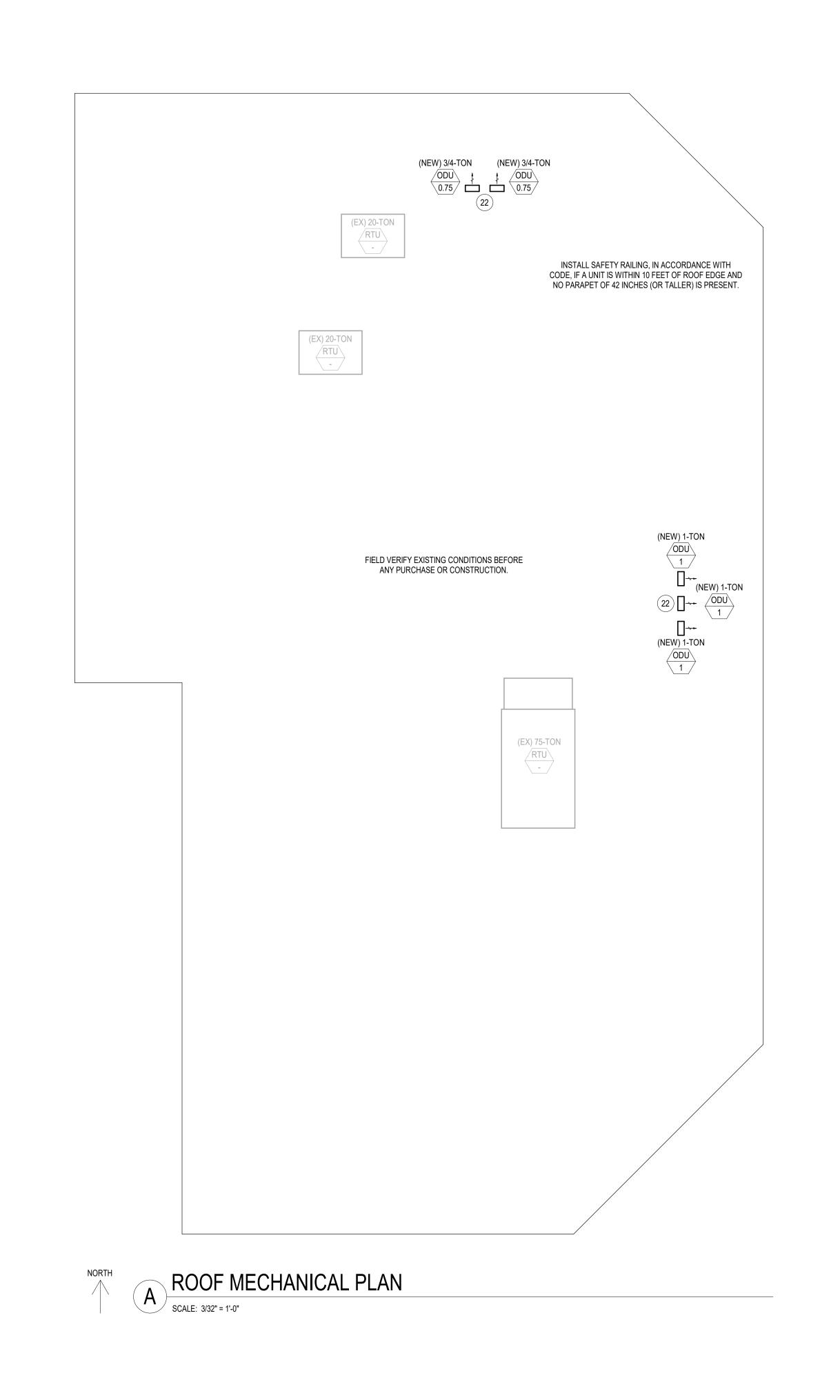
STATION PARK - F-320 SHIRE OFFICE REMODEL

ADDRESS FARMINGTON, UT 84025

DRAWING TITLE:

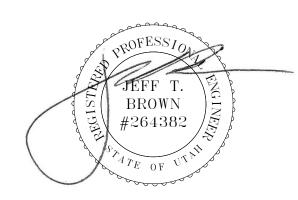
MECHANICAL LEVEL 3 PLAN

JOB NO.:	23.236	SHEET NUMBER
DATE:	09/08/2023	N 4 4 0 0
DRAWN BY:	MRM	M103
SCALE:	3/32" = 1'-0"	



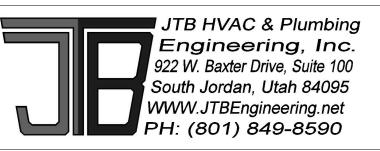


22 ALL HEAT PUMP OUTDOOR UNITS SHALL BE MOUNTED WITH THE BASE AT 18 INCHES ABOVE FINISHED ROOF ON UNISTRUT FRAMING, SUPPORTED BY METAL POSTS, FIRMLY ATTACHED TO THE ROOF STRUCTURAL FRAME. SEE DETAIL D ON SHEET M701.



PERMIT SET

REV Date Revision Description		Revision Description
	09/08/23	ISSUED FOR PERMIT



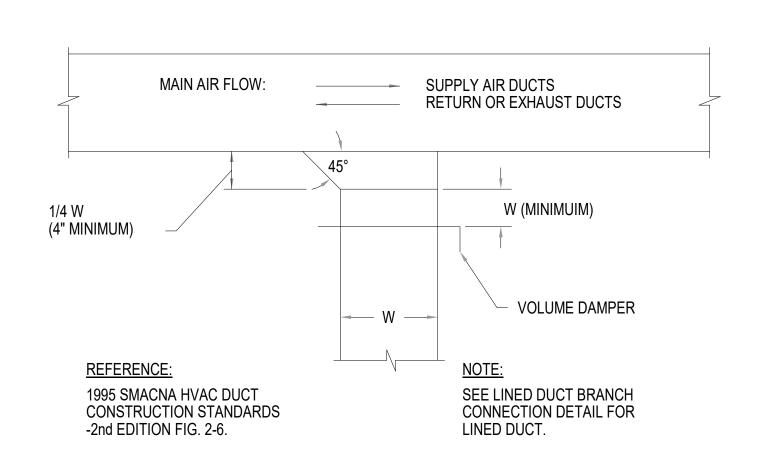
STATION PARK - F-320 SHIRE OFFICE REMODEL

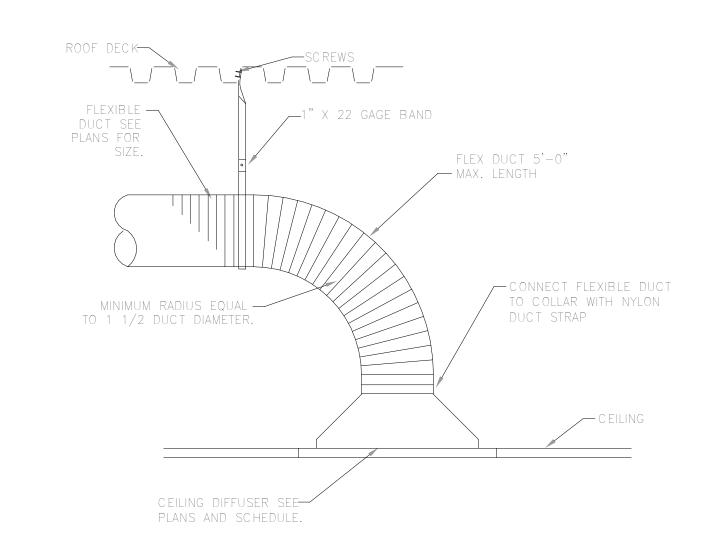
ADDRESS FARMINGTON, UT 84025

DRAWING TITLE:

MECHANICAL ROOF LEVEL PLAN

JOB NO.:	23.236	SHEET NUMBER
DATE:	09/08/2023	B 4 4 0 4
DRAWN BY:	MRM	M1()4
SCALE:	3/32" = 1'_0"	



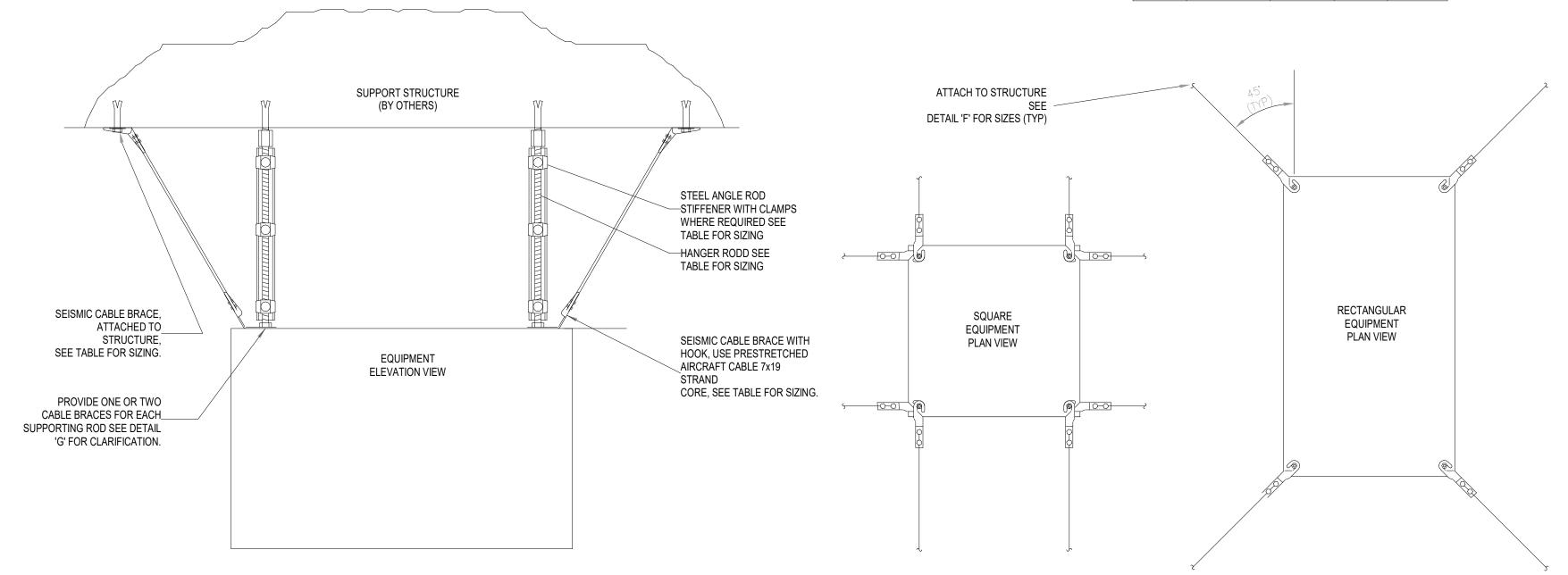


A BRANCH DUCT TAKEOFF

D	CEILING MOUNTED DIFFUSER DETAIL
D	NTS

				H	ANGER ROD DE	TAILS		BRAG	CE DETAILS (USE T	WO CABLES OR O	ONE SOLID BRACE)		
MAX.	SEISMIC		HANGE	R ROD	MAX.	MAX.	ROD		BRACE MEMB	ER	BRA	ACE	
UNIT	HORZ.	HANGER	STRUCTU	RE CONN.	UNBRACED	STIFFENER	STIFFENER	CABLE	ANGLE IRON	12 GA. STRUT	STRUCTU	RE CONN.	
WEIGHT	FORCE	ROD	(incl	hes)	ROD LENGTH	CLAMP	ANGLE	SIZE	SIZE	SIZE	(inc	hes)	
(lbs.)	(lbs.)	(inches)	CABLES	SOLID	(inches)	SPACING	SIZE	(inches)	(inches)	(inches)	CABLES	SOLID	
200	100	3/8	Α	Α	30	12	1x1x1/8	1/8	2x2x1/8	1-5/8x1-5/8	В	В	
400	200	1/2	В	В	39	16	1 1/2x1 1/2x1/4	3/16	2x2x1/8	1-5/8x1-5/8	С	С	
800	400	1/2	В	С	27	16	1 1/2x1 1/2x1/4	3/16	2x2x1/4	1-5/8x1-5/8	D	D	
1,200	600	5/8	С	D	36	21	1 1/2x1 1/2x1/4	1/4	3x3x1/4	1-5/8x3-1/4	Е	Е	
2,000	1,000	3/4	D	F	41	25	1 1/2x1 1/2x1/4	1/4	3x3x1/4	1-5/8x3-1/4	F	F	
4,000	2,000	7/8	F	G	40	30	2x2x1/4	3/8	4x4x1/4	1-5/8x3-1/4	Н	Н	

	HANGER AND	BRACE STRUC	CTURE CON	NECTION
	CONC.	CONC.		
	SLAB	DECK	STEEL	WOOD
TAG	DIAXEMBED	DIAXEMBED	DIA	DIAXEMBED
Α	3/8x2-1/2	3/8x3	3/8	3/8x3
В	1/2x3	1/2x3	1/2	1/2x4
С	5/8x3-1/2	² 3/4x5-1/4	1/2	(2) 1/2x4
D	(2) 1/2x3	(2) 1/2x3	5/8	(2) 5/8x5
E	(2) 5/8x3-1/2	(2) 5/8x5	5/8	(2) 5/8x5
F	(4) 5/8x3 1/2	(4) 5/8x5	3/4	(4) 5/8x5
G	(4) 5/8x4 1/2	-	7/8	(4) 5/8x5
Н	-	-	1	-



SUSPENDED EQUIPMENT SEISMIC DETAIL
SCALE: NTS

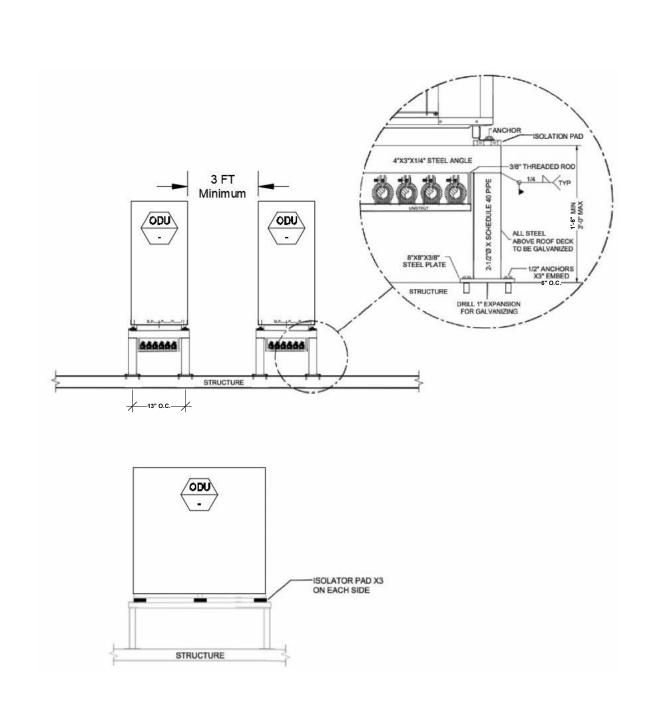
				S	PLI	EAT P	UM	P - II	NDC	OR	UNIT	SC	HED	DULE	=						
				COOLING	CAP.		HEA	ATING CA	P.	AIR	FLOW	ELI	ECTRICA	L	REFR	IGERAI	NT	PHYSIC	CAL		
TAG	INDOOR UNIT LOCATION AREA SERVED	NOM. TONS	ВТС	J/H	1	N COND. B / WB)	BTU / H	DESIGN (°F DE	N COND. B / WB)	CFM @	EXTL. S.P.	POWER (V/PH/HZ)	MCA / FUSE	DISCO- NNECT	TYPE	100 (II)	- 1	HxWxD (IN)	OP. WT.	INDOOR UNIT MFR MODEL NUMBER	
			SENS.	TOTAL	EAT	LAT		EAT	LAT	4,200'	(IN WC)	((((((((((((((((((((1002	INICOT		LIQ.	GAS	(111)	(LBS)		
0.75	CEILING-MOUNTED CASSETTE SERVER ROOM	3/4	7,990	9,100	80 67	55 -	10,000	70 60	99 60	350	-	FROM ODU	- -	-	R-410A	1/4	3/8	10x23x23	36	DAIKIN FFQ09Q2VJU	1 2
CCU 1	CEILING-MOUNTED CASSETTE EXECUTIVE OFFICES	1	8,430	10,800	80 67	55 -	13,500	70 60	104 60	400	-	FROM ODU	-	-	R-410A	1/4	3/8	10x23x23	36	DAIKIN FFQ12Q2VJU	1 2

- 1) INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS ALONG WITH 2" MERV 8 AIR FILTERS.
- 2 INSTALL WITH FACTORY-PROVIDED CONDENSATE PUMP, ROUTING THE 1" CONDESATE DRAIN TO THE NEAREST SANITARY RISER.

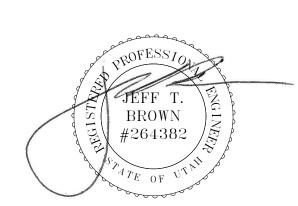
	SPLIT HEAT PUMP - OUTDOOR UNIT SCHEDULE																				
	COOLING CAP.						HEATING CAP.			ELECTRICAL				REFR	IGERA	NT		PHYSIC	AL		
TAG	OUTDOOR UNIT LOCATION AREA SERVED	NOM. TONS	EFF.	BTU / H	AMBIENT CONDITIONS (°F DB / WB)	_	BTU / H	AMBIENT CONDITIONS (°F DB / WB)		POWER (V/PH/HZ)	MCA / FUSE	DISCO- NNECT	TYPE		NN. N) GAS	(F	PIPE T)	HxWxD (IN)	OP. WT. (LBS)	OUTDOOR UNIT MFR MODEL NUMBER	
ODU 0.75	ROOF SERVER ROOM	3/4	20.9 SEER	9,100	95 75	75 -	6,000	17 15	70 60	208/1/60	13.0 15	BY E.C.	R-410A		3/8	65	49	22x27x12	60	DAIKIN RX09QMVJU	1 2
ODU 1	ROOF EXECUTIVE OFFICES	1	20.2 SEER	10,800	95 75	75 -	8,300	17 15	70 60	208/1/60	8.6 15	BY E.C.	R-410A	1/4	3/8	65	49	22x27x12	60	DAIKIN RX12QMVJU	1 2

- 1 INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) INSTALL ON A MOUNTING FRAME FOR SINGLE OR MULTIPLE UNITS PER FRAME. SEE DETAIL D FOR MORE INFORMATION.

			REGI	STE	R, GF	RILLE	& DIFF	FUSE	R SCHEDULE						
TAG	TAG RGD LOCATION TYPE SIZE TYPE SIZE STYLE AIR PATTERN FINISH DAMPER OPTIONS & ACCESSORIES RGD MANUFACTURER MODEL NUMBER														
1 CFM	CEILING-MOUNTED SUPPLY AIR	12"x12"	GYP.	8"Ø	PLAQUE	4-WAY	STEEL WHITE	OBD	-	TITUS OMNI					
2 CFM	CEILING-MOUNTED SUPPLY AIR	24"x24"	GYP.	10"Ø	PLAQUE	4-WAY	STEEL WHITE	OBD	-	TITUS OMNI					
(3) (RAG)	CEILING-MOUNTED RETURN AIR	24"x24"	LAY-IN	18"x18"	PERFOR- ATED	-	STEEL WHITE	-	-	TITUS PAR					



ODU ROOF MOUNTING SYSTEM DETAIL SCALE: NTS



PERMIT SET

Date	Revision Description
09/08/23	ISSUED FOR PERMIT



PROJECT NAME:

STATION PARK - F-320 SHIRE OFFICE REMODEL

FARMINGTON, UT 84025

DRAWING TITLE: MECHANICAL DETAILS & SCHEDULES

JOB NO.: SHEET NUMBER 23.236 DATE: 09/08/2023 M701 DRAWN BY: MRM SCALE: As indicated

ELECTRICAL GENERAL NOTES

GENERAL NOTES:

- 1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE. THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.
- 2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE
- 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
- 4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR
- 5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED AS PER NEC
- 6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. THE LABEL SHALL ALSO CONTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AS PER NEC 110.24.
- EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE AND TO IDENTIFY THE CIRCUIT SOURCE THAT SUPPLIES THE DISCONNECTING MEANS PER NEC 110.22.
- 8. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THEIR POWER ORIGINATES AS PER NEC 408.4B.
- 9. ALL EQUIPMENT PROVIDED BY THE EC SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
- 10. THE EC SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE EC SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- 11. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.
- 12. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- 13. THE EC SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE RIGIDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.
- 14. MINIMUM SIZE CONDUIT SHALL BE 3/4" UNO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILINGS, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE EMT WITH STEEL SET SCREW FITTINGS. IN EXTERIOR LOCATIONS (EXCEPT FOR THE SERVICE ENTRANCE) THE CONDUIT SHALL BE EMT WITH COMPRESSION GLAND TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH. 40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
- 15. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.
- 16. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.
- 17. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILINGS, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICER (INSPECTOR).
- 18. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU,THHN) + 1#12 (CU,THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU,THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE/CONDUIT SIZING.
- 19. CONDUCTORS SHALL BE COPPER, 600VAC RATED, TYPE THHN/THWN-2 UNO. CONDUCTORS UP TO #10AWG SHALL BE SOLID AND CONDUCTORS #8AWG OR LARGER SHALL BE STRANDED.
- 20. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTACLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.
- 21. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FIXTURES AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.
- 22. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLING INSTALLED CONCEALED WITHIN WALLS/CEILINGS. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.
- 23. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE. 3M BRAND CAULK, PUTTY, STRIP AND SHEET FORMS, DOW CORNING 3-6548 SILICONE RTV FOAM.
- 24. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION.
- 25. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, SMOKE/HEAT DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.
- 26. WHERE THE PREMISES WIRING SYSTEM HAS BRANCH CIRCUITS SUPPLIED FROM MORE THAN ONE NOMINAL VOLTAGE, EACH UNGROUNDED CONDUCTOR OF A BRANCH CIRCUIT SHALL BE IDENTIFIED BY PHASE OR LINE AND BY SYSTEM VOLTAGE CLASS AT ALL TERMINATION, CONNECTION, AND SPLICE POINTS. IDENTIFICATION MEANS SHALL BE POSTED AT EACH BRANCH CIRCUIT PANELBOARD.

ALL CONDUCTORS SHALL BE COLOR-CODED AS FOLLOWS:

PHASE	208/120	480/277
PHASE A	BLACK	BROWN
PHASE B	RED	ORANGE
PHASE C	BLUE	YELLOW
NEUTRAL	WHITE	WHITE
GROUND	GREEN	GREEN

REMODEL NOTES:

- 27. THE EC SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE EXISTING POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BRANCH CIRCUIT BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- 28. THE EC SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELECOM ROOM FROM WHICH NEW TELE/DATA OUTLETS WILL BE FED. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND/TERMINATE NEW TELECOM CABLING.
- 29. ALL DEVICES NOT SHOWN ON PLANS ARE EXISTING TO REMAIN IN PLACE AND FUNCTIONAL. IN THE EVENT THAT WIRING TO AN EXISTING DEVICE IS DAMAGED, WIRING MUST BE REPLACED AND DEVICE BROUGHT BACK TO FULL

LIGHTING NOTES:

- 30. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.
- 31. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.
- 32. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.
- 33. TO MAINTAIN CONSISTENT LIGHT QUALITY, FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED.
- 34. LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THEIR INSTALLED USE AND PREMATURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.
- 35. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL SHOP DRAWINGS WITH ELECTRICAL SUBMITTAL FOR

POWER NOTES

- 36. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS OR CABINETS AND SHALL MOVE THE PANELS IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- 37. WIRING DEVICES SHALL HAVE A NYLON COVER PLATE. COLOR SHALL BE COORDINATED WITH ARCHITECT. EXTERIOR OUTLETS SHALL HAVE CAST COVERS WITH FLIP TYPE LIDS UNO.
- 38. THE EC SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL
- 39. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE EC SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO ANY ROUGH-IN. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE EC WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE EC'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITHIN EACH PIECE OF EQUIPMENT AND ADDITIONAL COPIES WITH THE OPERATION AND MAINTENANCE MANUALS.
- 40. EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS.
- 41. PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING. AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE. INSTALLED WITHIN A CAST METAL BOX. AND WITHIN 25' OF ALL REQUIRED EQUIPMENT.

DATA/TELECOM NOTES

- 42. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH-IN ONLY FOR THE TELECOM/CAT6 SYSTEMS. THIS SHALL CONSIST OF A FOUR SQUARE DEVICE MOUNTING BOX WITH CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE OR TO THE CEILING SPACE ABOVE IF OPEN. CABLING, JACKS, FACEPLATES, TESTING AND TERMINATIONS SHALL BE PROVIDED AND INSTALLED BY OTHERS.
- 43. ALL TELECOMMUNICATIONS WIRING SHALL BE INSTALLED WITHIN CONDUIT UNLESS INSTALLED ABOVE ACCESSIBLE CEILINGS. MINIMUM CONDUIT SIZE FOR TELECOM CABLING SHALL BE 3/4" EMT, UNO. IN AREAS WHERE EXPOSED WIRING ABOVE CEILINGS IS INSTALLED WITHIN PLENUM SPACES, THE TELECOM WIRING SHALL BE PLENUM RATED. ALL TELE/DATA CABLING SHALL BE CATEGORY 6 RATED WITH WHITE OUTER JACKET FOR TELEPHONE AND BLUE OUTER JACKET FOR COMPUTER CABLING. CABLE TELEVISION CABLING SHALL BE TYPE RG-6. ROUTE ALL CABLING FROM THE OUTLET TO THE TERMINAL BOARD/WALL MOUNTED RACK AND TERMINATE. ALL ACTIVE EQUIPMENT (I.E. ROUTERS, SWITCHES, SERVERS, ETC.) SHALL BE PROVIDED AND INSTALLED BY THE OWNER.

ROOF NOTES:

44. ELECTRICAL CONTRACTOR TO INSTALL A ROOF JACK (BOOT) FOR ALL CONDUIT PENETRATIONS THROUGH THE ROOF. ALL ROOF PENETRATION SEALS SHALL BE IN ACCORDANCE WITH THE ROOF WARRANTY AND BE COMPLETELY SEALED WITH ROOF ADHESIVE. UTILIZE PROPER CLAMPING METHODS TO SEAL BOOT AROUND CONDUIT.

FIRE ALARM NOTES:

- 45. PLENUM RATED FIRE ALARM WIRE MAY BE RUN EXPOSED ABOVE ACCESSIBLE CEILING SPACES AND WHERE CONCEALED IN WALLS. ALL FIRE ALARM WIRING MUST BE IN 3/4" EMT CONDUIT WHERE IT IS NOT POSSIBLE TO CONCEAL IN WALLS OR CEILING SPACES.
- 46. SIGNAL LINE CIRCUIT IS TO BE CLASS A, NAC CIRCUIT IS TO BE CLASS B. T-TAPPING OF SLC CIRCUIT IS NOT
- 47. FIRE ALARM SYSTEM TO CONFORM TO CURRENT NFPA 72, IBC, AND IFC.
- 48. INCOMING AND OUTGOING SLC WIRES ARE TO MAINTAIN A 5' SEPARATION WHERE RUNS ARE LONGER THAN 10'.
- 49. IN ALL AREAS WHERE MORE THAN ONE FIRE ALARM STROBE IS IN SIGHT OF EACH OTHER, THEY ARE TO BE SYNCHRONIZED TO FLASH AT THE SAME RATE AND TIME. PROVIDE A SYNCHRONIZATION MODULE.
- 50. IN SMALLER AREAS WHERE 15CD HORN/STROBES ARE USED, THE dB LEVEL OF THE HORN SHALL BE TURNED DOWN TO 15dB ABOVE AMBIENT NOISE LEVEL. SEE NFPA 72 TABLE A.7.4.2 FOR AVERAGE AMBIENT SOUND LEVELS.
- 51. FIRE ALARM SHOP DRAWINGS SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. FIRE ALARM SHOP DRAWINGS SHALL BE SIGNED/SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER REGISTERED IN THE STATE OF UTAH.
- 52. BRANCH CIRCUIT BREAKERS PROVIDING POWER TO FIRE ALARM SYSTEMS SHALL BE IDENTIFIED IN POWER PANELS WITH RED LABELS STATING "FIRE ALARM CIRCUIT" AS REQUIRED BY NEC 760.41(B).
- 53. ALL EXISTING FIRE ALARM DEVICES ARE TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL THE NEW SYSTEM IS WORKING PROPERLY. IN THE CASE WHERE AN EXISTING FIRE ALARM DEVICE IS IN DIRECT CONFLICT WITH A NEW DEVICE, THE EXISTING DEVICE IS TO BE LEFT IN PLACE AND FUNCTIONAL UNTIL FINAL TEST WHEN IT CAN BE REMOVED AND THE NEW DEVICE CAN BE PLACED IN ITS LOCATION. ONCE THE NEW SYSTEM IS OPERATING PROPERLY, ALL EXISTING FIRE ALARM DEVICES ARE TO BE REMOVED AND HOLES PATCHED.

	ELECTRICAL SYMBOL SCHEDU	JLE	
SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
—	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
<u></u>	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
Ю	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
A	EMERGENCY LIGHT FIXTURE - DOWNLIGHT LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT/CHANDELIER	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
888	LIGHT TRACK WITH FIXTURES	SURFACE	1
\otimes H	EXIT FIXTURE - WALL MOUNT	WALL	1, 2, 3
\otimes	EXIT FIXTURE - CEILING MOUNT	CEILING	1, 2, 3
0\$0	EXIT FIXTURE W/ EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
080	EXIT FIXTURE W/ EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
0[EM]0	DUAL HEAD EMERGENCY LIGHT FIXTURE AREA LIGHT FIXTURE - POLE MOUNTED	WALL POLE	1, 2
+	OCCUPANCY SENSOR - CEILING MOUNT	CEILING	1
(P)	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
(P)	LIGHTING RELAY/POWER PACK	SURFACE	1
TC	TIME CLOCK - 7 DAY	5' - 0"	
\$os	WALL OCCUPANCY SENSOR SWITCH	4' - 0" TO TOP	
\$	SINGLE POLE SWITCH	4' - 0" TO TOP	
\$2	DOUBLE POLE SWITCH	4' - 0" TO TOP	
\$3	THREE WAY SWITCH	4' - 0" TO TOP	
\$4	FOUR WAY SWITCH	4' - 0" TO TOP	
\$D	DIMMER SWITCH	4' - 0" TO TOP	
\$LV \$TH	LOW VOLTAGE SWITCH THERMAL OVERLOAD SWITCH	4' - 0" TO TOP 4' - 0" UNO	
\$P	PILOT LIGHT SWITCH	4' - 0" TO TOP	
\ominus	DUPLEX OUTLET, 20A, 120VAC	1' - 6" UNO	
•	DUPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
	DUPLEX OUTLET - SPLIT WIRED	1' - 6" UNO	
	DUPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
₩	DUPLEX OUTLET WITH USB PORTS	1' - 6" UNO	
os⊖	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	1' - 6" UNO	
	DUPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
<u> </u>	DUPLEX OUTLET, 20A, 120VAC - FLOOR FOURPLEX OUTLET, 20A, 120VAC	FLOOR 1' - 6" UNO	
•	FOURPLEX OUTLET, 20A, 120VAC - GFCI	1' - 6" UNO	
•	FOURPLEX OUTLET - ISOLATED GROUND	1' - 6" UNO	
—	FOURPLEX OUTLET, 20A, 120VAC - CEILING	CEILING	
D	FOURPLEX OUTLET, 20A, 120VAC - FLOOR	FLOOR	
€	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" OR 48"	
€	APPLIANCE OUTLET - 208/480V 3-PHASE	18" OR 48"	
∇	DATA OUTLET	1' - 6" UNO	
V	TELEPHONE OUTLET	1' - 6" UNO	
T	DATA OUTLET ELOOP	1' - 6" UNO	
<u></u> ▼	DATA OUTLET - FLOOR DUAL TELEPHONE/DATA OUTLET - FLOOR	FLOOR FLOOR	
	CEILING DATA OUTLET/ WIRELESS ACCESS POINT	CEILING	
\overline{V}	CABLE TELEVISION OUTLET	1' - 6" UNO	
<u> </u>	JUNCTION BOX	SURFACE	
Ю	WALL JUNCTION BOX	1' - 6" UNO	
0	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	5' - 0" UNO	4
\F	DISCONNECT SWITCH - FUSED	5' - 0" UNO	4
	DISCONNECT SWITCH - SHUNT TRIP COMBINATION MAGNETIC STARTER/DISCONNECT	5' - 0" UNO	4
	MOTOR STARTER	5' - 0" UNO 5' - 0" UNO	
	CONTACTOR	5' - 0" UNO	
Q	MOTOR	SURFACE	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	4' - 0"	
	EMERGENCY POWER SHUTOFF SWITCH	4' - 0"	
	PANELBOARD - SURFACE MOUNTED	6' - 6" TO TOP	
	PANELBOARD - RECESSED	6' - 6" TO TOP	
	TRANSFORMER - PLAN VIEW	PAD/FLOOR	
	TELEPHONE TERMINAL BOARD	WALL	
I —			

ELECTRICAL SHEET INDEX												
E000	ELECTRICAL GENERAL SHEET											
E101	LIGHTING PLAN											
E201	POWER PLAN											
E601	ELECTRICAL SCHEDULES											

		ALARM HORN STROBE			7' - 6" 7' - 6"				
	1		L DUILL CTATIC						
F		ALARM DUAL ACTION MANUA		4' - 0"					
AR		ALARM ADDRESSABLE CONT	ROL RELAY						
MM		ALARM MONITOR MODULE			01 01 70 70 7				
	1	ALARM CONTROL PANEL			6' - 6" TO TOP				
		ALARM ANNUNCIATOR PANEL			4' - 0"				
0	1	OELECTRIC SMOKE DETECTOR OF RISE/HEAT DETECTOR	UK		SURFACE				
		ON MONOXIDE DETECTOR			SURFACE SURFACE				
(i)	+	SMOKE DETECTOR			DUCT	6			
D	+	SMOKE DAMPER			DOCT				
\Diamond	1	RISER TAMPER SWITCH							
F	1	RISER FLOW SWITCH							
	1	TROMAGNETIC DOOR HOLDE	:R		2' - 0"				
CR		RITY CARD READER	`		4' - 0"				
KP		RITY KEYPAD			4' - 0"				
ES	+	TRIC STRIKE							
		RITY CCTV CAMERA							
S	SPEA	KER - CEILING							
HS	SPEA	KER - WALL							
HM	MICRO	OPHONE CONNECTION							
\$vc	VOLU	ME CONTROL SWITCH			4' - 0"				
$^{\circ}$	CIRCU	JIT BREAKER	M	METER	- ONE-LINE				
	MLO F	PANEL - ONE-LINE		TRANS	FORMER - ONE-LII	NE			
٦	MCB F	PANEL - ONE-LINE		PAD M	OUNT XFMR - ONE	UNT XFMR - ONE-LINE			
°	AUTO	MATIC TRANSFER SWITCH		GROUN	JND SLEEVE - ONE-LINE D DISCONNECT - ONE-LINE				
•}	CT EN	ICLOSURE - ONE-LINE	XXXA XP XXXA LPNR	FUSED					
•>	CURR	ENT TRANSFORMER			O SWITCH				
			<u> </u>	GROUN					
	OH RI	SER ————————————————————————————————————	XXX	CABLE	/WIRE SIZE TAG				
\(\lambda\times\)	KEYE	D NOTE TAG	$ \times$	— DETA	AIL/VIEW NUMBER				
$\langle XX \rangle$		I/ELEC. EQUIPMENT TAG	EXXX		AIL/VIEW REFEREN	ICE TA			
(X)	OTHE	R EQUIPMENT TAG			ET NUMBER				
		WIRING / CONDUIT			DERGROUND/FLOO				
-		CONDUIT TURNED UP			NDUIT TURNED DO				
	>>	(SEPARATE NEUTRAL PER C	CIRCUIT). BOT						
2. COI LIGI 3. ARF 4. USE 5. MOI 6. PRO	NNECT I HTING E ROW DE E HEAVY UNT SW DVIDE U DVIDE A	FIXTURE SCHEDULE FOR TY EMERGENCY AND/OR EXIT LI BRANCH CIRCUIT. ENOTES EXIT DIRECTION. OUTY FOR 480 VOLT. OUTY FOR JAM PER MAN L LISTED DEVICE TO BE USE MONITOR MODULE TO CONN ACEWAY WITH OUTLETS 12"	GHTS TO THE NUFACTURER'S D WITH THE FI NECT INTO FIR	UNSWITE S INSTRU RE ALAR E ALARM	CHED SIDE OF THE JCTIONS. M PANEL/SYSTEM				
		ABBRE	VIATIONS						
	RC FAUI	T CKT INTERRUPTER	MCC - N		ONTROL CENTER				
1	~ :	NISHED FLOOR			TRIBUTION PANEL				

7. PROVIDE RACEWAY WITH OUTLETS 12 ON C	ENTER UNO.
ABBREVIAT	ΓIONS
FLA - FULL LOAD AMPS FVNR - FULL VOLTAGE NON REVERSING	SCBA - SELECT COLOR SES - SERVICE ENTRAN
GC - GENERAL CONTRACTOR GFCI - GROUND FAULT CKT INTERRUPTER GND - GROUND HP - HORSEPOWER IG - ISOLATED GROUND KW - KILOWATTS	SPD - SURGE PROTECT TL - TWIST LOCK TTB - TELEPHONE TERI TR - TAMPER RESISTAN TYP - TYPICAL UNO - UNLESS NOTED
LCP - LIGHTING CONTROL PANEL LTG - LIGHTING	VA - VOLT/AMPS VIF - VERIFY IN FIELD

LV - LOW VOLTAGE

MC - MECHANICAL CONTRACTOR

MCA - MINIMUM CIRCUIT AMPS

MCB - MAIN CIRCUIT BREAKER

ION TIONAL FIRE PROT. ASSN. REQUIRED TO SCALE BING CONTRACTOR NT OF CONNECTION NT OF SALE CATED EPTACLES ID METAL CONDUIT RT CIRCUIT AMPERES LECT COLOR BY ARCHITECT VICE ENTRANCE SWITCHGEAR GE PROTECTIVE DEVICE LOCK PHONE TERMINAL BOARD ER RESISTANT ESS NOTED OTHERWISE

VR - VANDAL RESISTANT

XFMR - TRANSFORMER

WP - WEATHERPROOF/NEMA 3R

ROCKY MOUNTAIN

2332 West 12600 South Suite F, Riverton, UT 84065 (801) 566-0503 www.rmceut.com Project #23340

WU - FURNISHED WITH UNIT

DAVID W. STEWARD

PRINTED DATE

<u></u>

CHRONOLOGY

PROJECT NO 23,117

DWN BY/ CHK BY NF/MM ES

ELECTRICAL

GENERAL SHEET

24X36 SHEET #

LIGHTING PLAN

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

KEYED NOTES

- RELOCATE EXISTING FIN-STYLE TROFFER TO LOCATION SHOWN. CIRCUIT TO THE EXISTING AREA LIGHTING BRANCH CIRCUIT AND CONTROLS.
- RELOCATE EXISTING FIN-STYLE TROFFERS TO THE LOCATIONS SHOWN. CIRCUIT TO THE EXISTING AREA LIGHTING BRANCH CIRCUIT. CIRCUIT TO NEW CONTROLS AS
- INDICATED. LOWER CASE LETTERS AT FIXTURES TO INDICATE CONTROL
- ZONES. REFER TO OCCUPANCY SENSOR WITH CORRESPONDING LOWER CASE LETTER.
- EXISTING ELECTRICAL WITHIN AREA TO REMAIN. WHERE MORE FIN-STYLE TROFFERS ARE NEEDED PROVIDE

INDICATED 'GL1' FIXTURE FROM FIXTURE SCHEDULE.

GENERAL NOTES

- CONNECT ALL EMERGENCY AND EXIT LIGHT FIXTURES TO THE UNSWITCHED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 90 MINUTES IN CASE OF POWER LOSS.
- IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITHIN WALLS AND ABOVE CEILINGS CONCEALED WHERE POSSIBLE.
- COORDINATE MOUNTING HEIGHTS OF ALL PENDANT AND WALL MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL
- ELEVATIONS. ELECTRICIAN TO VERIFY FIXTURE DIMMING CONTROLS AND TO PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.
- EC TO CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.

LTG CTRL SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2021.

OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOM UTILITY, AND BREAK ROOMS.

OCCUPANCY SENSORS IN OPEN OFFICES WILL CONTROL AREAS NOT GREATER THAN 600 SQUARE FEET AND TURN OFF WITHIN 20 MINUTES AFTER OCCUPANTS HAVE LEFT THE SPACE. (C405.2.1.3)

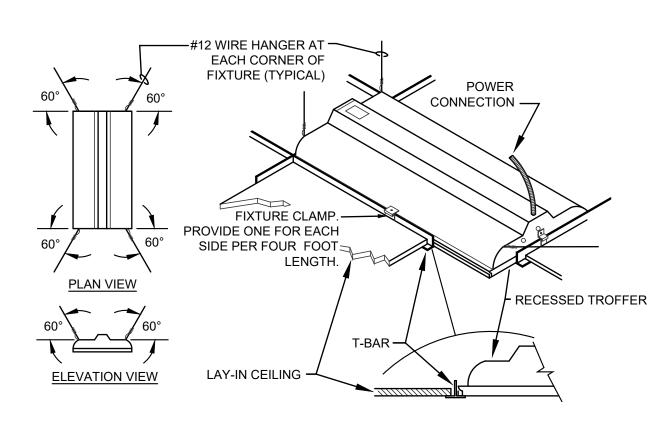
OPEN OFFICE GENERAL LIGHTING IN EACH CONTROL ZONE SHALL BE PERMITTED TO AUTOMATICALLY TURN ON UPON OCCUPANCY WITHIN THE CONTROL ZONE. GENERAL LIGHTING IN OTHER UNOCCUPIED ZONES WITHIN THE OPEN PLAN OFFICE SPACE SHALL BE PERMITTED TO TURN ON TO NOT MORE THAN 20 PERCENT OF FULL POWER OR REMAIN OFF. (C405.2.1.3) (2)

WALL MOUNTED OCC. SENSORS WILL BE PROVIDED IN PRIVATE OFFICES AND CONFERENCE ROOMS. OCCUPANCY SENSORS SHALL BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN ON TO NOT MORE THAN 50-PERCENT. (C405.2.1)

DAYLIGHT ZONES EXEMPT FROM AUTOMATIC CONTROL REQUIREMENTS PER IECC 2021 405.2.4 (1) (LESS THAN 150 W

ROCKY MOUNTAIN CONSULTING ENGINEERS, INC.

2332 West 12600 South Suite F, Riverton, UT 84065 (801) 566-0503 www.rmceut.com Project #23340



LAY-IN FIXTURE DETAIL

 $\overline{\mathsf{E}101}$ / NO SCALE

No. 7945859-2202 DAVID W. STEWARD

PRINTED DATE

STATION PA SHIRE OFFICI

FARMINGTON,

CHRONOLOGY

PROJECT NO 23.117

DWN BY/ CHK BY NF/MM ES

TITLE

LIGHTING PLAN

24X36 SHEET#

E101

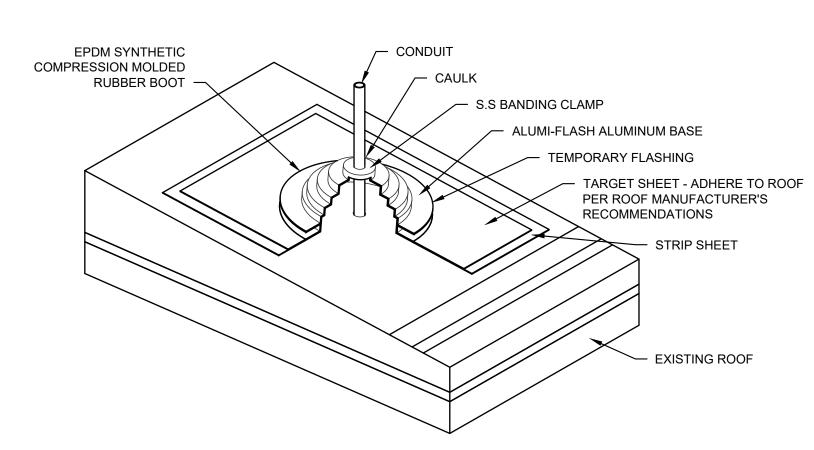
POWER PLAN SCALE: 3/32" = 1'-0"

KEYED NOTES

- EXISTING ELECTRICAL SHOWN TO REMAIN. VERIFY ALL ELECTRICAL IS FUNCTIONING PROPERLY. REPAIR / REPLACE AS NEEDED.
- VERIFY TV RECEPTACLE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH IN.
- PROVIDE NEW CAT6 CABLING FROM EXISTING DATA OUTLET
- TO EXISTING 'TTB' SHOWN. CIRCUIT NEW ELECTRICAL DEVICE TO EXISTING ELECTRICAL CIRCUIT IN AREA.
- PROVIDE (1) 1-1/4" C FROM A 2-GANG 4-11/16" JUNCTION BOX TO AN ACCESSIBLE CEILING SPACE FOR FURNITURE DATA CABLING. PROVIDE (1) 3/4" C TO A 1-GANG JUNCTION BOX FOR FURNITURE POWER CONNECTION. COORDINATE MODULAR FURNITURE FEEDS WITH FURNITURE INSTALLER PRIOR TO CONSTRUCTION. NO MORE THAN 6 CUBICLES SHALL BE CONNECTED TO A CIRCUIT.
- PANEL SCHEDULE IS SCHEMATIC ONLY. FIELD VERIFY SPARE CIRCUITRY. DEMO ALL UNUSED ELECTRICAL CIRCUITS WITHIN SCOPE BACK TO ELECTRICAL PANEL.
- PROVIDE A NEW UPDATED PANEL SCHEDULE UPON JOB COMPLETION. THE PANEL SCHEDULE SHALL BE PRINTED ON CARD STOCK AND SHALL CLEARLY LIST THE PANEL NAME, VOLTAGE, BUSS RATING, AND A DISTINCT DESCRIPTION OF ALL NEW AND EXISTING BRANCH CIRCUIT LOADS. SEE NEC 408.4(A) FOR MORE INFORMATION.
- SIMULATOR PROJECTOR. PROVIDE A DUPLEX RECEPTACLE AND (1) 1-1/2"C FROM PROJECTOR LOCATION TO SIMULATOR PC. COORDINATE FURTHER REQUIREMENTS WITH SIMULATOR INSTALLER.
- RADAR EQUIPMENT. PROVIDE A DUPLEX RECEPTACLE FOR POWER AND (1) 1"C FROM TTB TO DATA OUTLET FOR DATA CONNECTION. PROVIDE (1) 1"C FROM RADAR TO PC. COORDINATE FURTHER REQUIREMENTS WITH SIMULATOR INSTALLER.
- REUSE EXISTING DUPLEX RECEPTACLE FOR GOLF SIMULATOR PC. PROVIDE (1) 1-1/4"C TO 'TTB' FOR PC DATA CONNECTION. COORDINATE FURTHER REQUIREMENTS WITH SIMULATOR INSTALLER.
- . WALL MOUNTED HORN STROBES TO BE NO LOWER THAN 80" AFF TO BOTTOM OF FIXTURE AND NO HIGHER THAN 96" TO TOP OF FIXTURE. SEE FIRE ALARM RISER DIAGRAM FOR
- MORE INFORMATION. 12. MOUNT RECEPTACLE HORIZONTALLY IN MILLWORK AT 6" BELOW COUNTERTOP. COORDINATE INSTALLATION AND CONDUIT ROUTING WITH THE MILLWORK CONTRACTOR. 13. PROVIDE POWER AND A SWITCH FOR SMARTGLASS
- CONNECTIONS. REFER TO MANUFACTURER'S INSTALLATION REQUIREMENTS FOR FURTHER INFORMATION. . CIRCUIT INDOOR CASSETTE UNIT TO CORRESPONDING ROOFTOP CONDENSING UNIT. COORDINATE ROOFTOP UNIT LOCATING AND CONDUIT PATHWAY WITH THE MECHANICAL
- CONTRACTOR. . VERIFY THAT A ROOFTOP SERVICE RECEPTACLE IS LOCATED WITHIN 25' OF EACH MECHANIAL UNIT. WHERE THE DISTANCE TO THE NEAREST ROOFTOP RECEPTACLE IS GREATER THAT 25', PROVIDE A GFCI RECEPTACLE AND WEATHERPROOF COVER . CIRCUIT TO BRANCH CIRCUIT 3LF2S3-30.

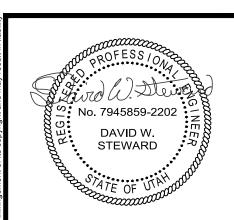
GENERAL NOTES

- COORDINATE FINAL OUTLET LAYOUT AND MOUNTING HEIGHTS WITH MILLWORK CONTRACTOR PRIOR TO
- ROUGH-IN. B. COORDINATE ALL CEILING HUNG LIGHTING AND ELECTRICAL DEVICE PLACEMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. VERIFY LIGHTING IS NOT OBSTRUCTED BY MECHANICAL DUCTWORK OR EQUIPMENT.
- C. EC TO PROVIDE CIRCUIT LABELS ON THE FACE OF EACH RECEPTACLE PLATE CLEARLY LABELING THE CIRCUIT.
- ALL RECEPTACLES TO BE MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
- EC SHALL ENSURE THAT HORN STROBE SPACING PROVIDES 15db THROUGHOUT SPACE. ANY ADDITIONAL HORN STROBES REQUIRED BY FIRE MARSHALL SHALL BE PROVIDED AT THE COST OF THE GENERAL CONTRACTOR.
- PROVIDE TAMPER RESISTANT RECEPTACLES AS PER NEC 406.12.



ROOF CONDUIT PENETRATION DETAIL E201 NO SCALE





PRINTED DATE

R - F-320 REMODEL 1 ION PA OFFIC STATI SHIRE

ON,

FARMINGT

CHRONOLOGY

PROJECT NO

DWN BY/ CHK BY NF/MM ES

23.117

TITLE

POWER PLAN

24X36 SHEET#

E201

					EQl	JIPM	IENT	SCH	HEDUL	Ε						
		ELECTRICAL STARTER OVERCURRENT PROTECTION														TECTION
		V	PH	KW	HP	MCA	FLA	MOCP	CONDUIT	WI	RE	GND.	NEMA	DISCONNECT	FUSE	DEMADKC
MARK	DESCRIPTION	V	РП	KVV	ПР	MCA	FLA	MOCP	SIZE	QTY.	SIZE	SIZE	SIZE	SIZE/POLE	SIZE	KEMAKKS
CCU75	SERVER ROOM CASSETTE	208	1				1	-	3/4"	2	12	12	ı	-	-	11A
CCU-1	EXEC. OFFICE CASSETTE	208	1				1	-	3/4"	2	12	12	-	-	-	11A
ODU75	SERVER ROOM HEAT PUMP	208	1			13		15	3/4"	2	12	12	-	30/2	15	1A
ODU-1	EXEC. OFFICE HEAT PUMP	208	1			8.6		15	3/4"	2	12	12	-	30/2	15	1A
											·					
NOTE: CO	OORDINATE FINAL FOLIDMENT C	CONNECT	TONS V	VITH FOL	ITPMENT	PROVIDE	R PRT∩R	TO ROLK	SH-IN VERIE	γ ΔΙΙ Μ	OLINITI	NG HET	CHTS			

NOTE: COORDINATE FINAL EQUIPMENT CONNECTIONS WITH EQUIPMENT PROVIDER PRIOR TO ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS,

1. FUSED DISCONNECT SWITCH 2. NON-FUSED DISCONNECT SWITCH

3. BREAKER IN ENCLOSURE 4. THERMAL OVERLOAD SWITCH

5. TOGGLE SWITCH

6. MAGNETIC STARTER 7. MAGNETIC STARTER/NON-FUSED DISCONNECT SWITCH

8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION

9. MAGNETIC STARTER/BREAKER COMBINATION

10. REDUCED VOLTAGE STARTER 13. DIRECT CONNECTION 11. FED FROM CORRESPONDING ROOFTOP CONDENSOR 14. DUCT DETECTOR IN RETURN DUCT 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC. 15. SWITCH WITH LIGHTS

A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26

B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 26 C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26 D. FURNISHED, INSTALLED, AND CONNECTED UNDER ANOTHER DIVISION

E. FURNISHED AND INSTALLED UNDER DIVISION 26 REQUIRING CONNECTION UNDER ANOTHER DIVISION

			-									
	LIGHT FIXTURE SCHEDULE											
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	DELIVERED LUMENS /	CONTROL	MOUNTING	LOAD(VA)	DESCRIPTION	NOTES:			
	METALUX	24SR						2X4 FIN-STYLE LED TROFFER				
GL1			UNV	MATCH EXISTING	0-10V	RECESSED	38		5			
	LITHONIA	ZL1D L24 1500LM FST MVOLT 40K 80CRI		3000 LUMENS / 4000K	0-10V	SUSPENDED		2' LED STRIP LIGHT				
	METALUX	SNLED-LD5	1									
	DAYBRITE	FSS	UNV				15		4			
	INDUSTRIAL LIGHTING PRODUCT	SS										

DESIGNED.

1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH A MEANS OF EMERGENCY POWER SUCH AS A BATTERY PACK, INVERTER OR GENERATOR CAPABLE OF PROVIDING 90 MIN OF EGRESS ILLUMINATION. WHERE A GENERATOR PROVIDES EMERGENCY POWER, A GENERATOR TRANSFTER DEVICE OR SIMILAR DEVICE SHALL BE PROVIDED TO ENSURE LIGHT IS TURNED ON DURING AN EMERGENCY

OCCURANCE. 2. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL AFTER THE PROJECT HAS BEEN BID AND AWARDED. ANY CREDITS FOR VE SHALL INCLUDE TIME TO COMPENSATE OUR OFFICE FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADING AND/OR ENERGY CODE COMPLIANCE. NO VE SUBMITTALS WILL BE APPROVED WITHOUT THIS PROCESS IN PLACE. VE SUBMITTALS SHALL INCLUDE PHOTOMETRIC ANALYSIS TO ENSURE NEW LIGHT FIXTURES PROVIDE COMPARABLE LIGHT LEVELS TO THOSE ORIGINALLY

3. MANUFACTURER SHALL PROVIDE SEISMIC SUPPORT WITH FIXTURES OVER 20 LBS.

4. FIXTURES LISTED IN THE FIXTURE SCHEDULE HAVE BEEN PROVIDED AS THE BASIS OF DESIGN. FIXTURES ARE TO BE PROVIDED THAT MEET OR EXCEED SPECIFICATIONS. FIXTURES THAT DO NOT COMPLY WILL BE REJECTED AT SUBMITTAL.

5. FIXTURE SHALL BE PROVIDED AS SPECIFIED. CONTACT MANUFACTURER'S REP FOR CONTRACTOR ALLOWANCE PRICING

6. FIXTURES TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL CONNECTORS, FASTENERS, AND WIRE TERMINATIONS FOR A COMPLETE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

PAI	NEL SCHEDULE	SLF1 S2 (EXISTING)										
VOLT/PHASE/WIRE: 120/208V/3PH/4W				AIC	RATING:			AIC		MAIN BREAKER:		
MOU	NT/ENCLOSURE: SURFACE/NEMA 1		LOCATION:							MAIN LUGS: 225A		
CKT NO	DESCRIPTION	LOAD	AMPS	POLES	А	В	С	POLES	AMPS	LOAD	DESCRIPTION	
43	ELEVATOR SECUR PANEL (E)	0	20	1	0			1	20	0	EF-1 (E)	
45	ROOFTOP CONDESING UNIT	1352	20	2		1352		1	20	0	FIRE DOOR / DAMPER (E)	
47		1352	-	-			1352	1	20	0	ELEVATOR CONT ROOM (E)	
49	PWR RECEPT 114,112,106 (E)	0	20	1	0			1	20	0	ELVATOR SHAFT (E)	
51	CO RECEPT 114,112,106 (E)	0	20	1		0		1	20	0	ELEVATOR CAR (E)	
53	CO MED REC 105/CONF 111 (E)	0	20	1			0	2	20	0	HEAT TAPE (E)	
55	CO NURSING 112 (E)	0	20	1	0			-	-	0		
57	CO THERAPY 106 (E)	0	20	1		0		1	20	0	HEAT TAPE (E)	
59	CO THERAPY 106 (E)	0	20	1			0	1	20	0	HEAT TAPE (E)	
61	POWER CONFERENCE 111 (E)	0	20	1	1352			2	20	1352	ROOFTOP CONDESING UNIT	
63	POWER CONFERENCE 111 (E)	0	20	1		1352		-	-	1352		
65	POWER CONFERENCE 111 (E)	0	20	1			894	2	20	894	ROOFTOP CONDESING UNIT	
67	CO OFFICE 103,104 (E)	0	20	1	894			-	-	894		
69	CO OFFICE 101,102 (E)	0	20	1		894		2	20	894	ROOFTOP CONDESING UNIT	
71	CO HALLWAYS (E)	0	20	1			894	-	-	894		
73	POWER CONFERENCE 111 (E)	0	20	1	0			1	20	0	CO P.H.S. 108 (E)	
75	CO NURSING 112 (E)	0	20	1		0		1	20	0	CO P.H.S. 108 (E)	
77	CO NURSING 113 (E)	0	20	1			0	1	20	0	CO OFFICE 110 (E)	
79	CO NURSING 113 (E)	0	20	1	0			1	20	0	PWR BREAK RM 107 APPL (E)	
81	CO BREAK ROOM 107 (E)	0	20	1		894		2	20	894	ROOFTOP CONDESING UNIT	
83	PWR BREAK RM 107 FRINGE	0	20	1			894	-	-	894		
TOTA	ALS		2,246	4,492	4,034							
TOT	11040. 10.772											

TOTAL LOAD:	10,772						
LOADS	CONTINUOUS	NON-CONTINUOUS	DEM/	AND FACTOR	DEMAND LOAD		
EXISTING	0	0	125% x	0			0
LIGHTING	0	0	125% x	0	+ 100% x	0	0
RECEPTACLE	0	0	100% x	0	+ 50% x	0	0
MOTOR	0	0	125% x	0	+ 100% x	0	0
FIXED HEAT	0	0	100% x	0			10772
A/C	0	10,772	100% x	10772			10//2
KITCHEN EQUIP.	0	0	100 % x	0			0
MISC	0	0	125% X	0	+ 100% x	0	0
					TOTAL DEM	IAND LOAD:	10,772 VA

OVERCURRENT PROTECTIVE DEVICES SHALL HAVE SAME AIC RATING AS PANEL THEY ARE LOCATED IN.

PANEL SCHEDULE					3LF1 S1 (EXISTING)										
VOLT/PHASE/WIRE: 120/208V/3PH/4W					AIC	RATING:			AIC		MAIN BRE	AKER:			
MOUNT/ENCLOSURE: SURFACE/NEMA 1					LC	САТІОН:		,,,,,,			S:	225A			
CKT NO	DESCRIPTION		LOAD	AMPS	POLES	А	В	С	POLES	AMPS	LOAD		DESCRIPTION	CKT NO	
1	CO HALLWAY (E		0	20	1	0			1	20	0	PUMP 1 (E		2	
3	CO HALLWAY (E	•	0	20	1	0	0		1	20	0	PUMP 2 (E)		4	
5	CO HALLWAY (E	· · · · · · · · · · · · · · · · · · ·	0	20	1			0	3	35	0	PUMP 3 (E)		6	
7	CO RESTROOM	·	0	20	1	0			Ë	-	0	FOITE 3 (E)		8	
9	DRINKING FOUN		0	20	1		0		-	-	0		-	10	
11	CO ROOF (E)	1741(2)	0	20	1			0	3	35	0	PUMP 4 (E	=)	12	
13	BOILER ROOM C	OUTLETS (E)	0	20	1	0		, i	-	-	0			14	
15	EXTERIOR LIGHT		0	20	1		0		-	-	0			16	
17	EXTERIOR LIGHT		0	20	1			0	3	20	0	BOILER (E)		18	
19			0	20	1	0		-	-	-	0			20	
21	` '		1500	20	1		1500		-	-	0			22	
23	NAC PANELS (E)		0	20	1			1200	1	20	1200	WALL FURNITURE FEED		24	
25	SIMULATOR PRO	DJECTOR	800	20	1	1300			1	20	500	GOLF SIM	RADAR EQUIPMENT	26	
27	WALL FURNITUR	RE FEED	1200	20	1		1200		1	20	0	BMS(E)		28	
29	WALL FURNITUR	RE FEED	1200	20	1			1200	1	20	0	BMS(E)		30	
31	INSTAHOT WATE	ER HEATER (E)	0	50	3	0			1	20	0	BMS(E)		32	
33			0	-	-		0		1	20	0	BMS (E)		34	
35			0	-	-			0	1	20	0	BMS(E)		36	
37	ELEVATOR AC (E)	0	20	2	0			1	20	0	BMS(E)		38	
39			0	-	1		0		1	20	0	BMS(E)		40	
41	FIRE SMOKE DAI	MPER (E)	0	20	1			1200	1	20	1200	WA∐ FUR	NITURE FEED	42	
TOTA	ıLS					1,300	2,700	3,600							
TOTA	IL LOAD:	7,600													
	LOADS	CONTINUOUS	NON-CON	UNITI	ous		DEM/	ND FACTO	ND FACTOR/CALCU				DEMAND LOAD		
EXIS	ΠNG	0	0			125	% x	0						0	
LIGHTING		0	0		125		% x	0	+ 100% x		0		0		
RECE	PTACLE	0	4,800			100	% x	4800	+ 50% x		0)			
МОТ		0	0			125	% x	0		+ 100% ×		0			
FIXE) HEAT	0	0			100	% x	0						0	
A/C		lo	lo			100% x		l o							

100 % x 125% X

+ 100% x 2800

TOTAL DEMAND LOAD:

7,600 VA

21 A

OVERCURRENT PROTECTIVE DEVICES SHALL HAVE SAME AIC RATING AS PANEL THEY ARE LOCATED IN. PANEL SCHEDULE IS SCHEMATIC ONLY. FIELD VERIFY SPARE CIRCUITRY.

KITCHEN EQUIP.

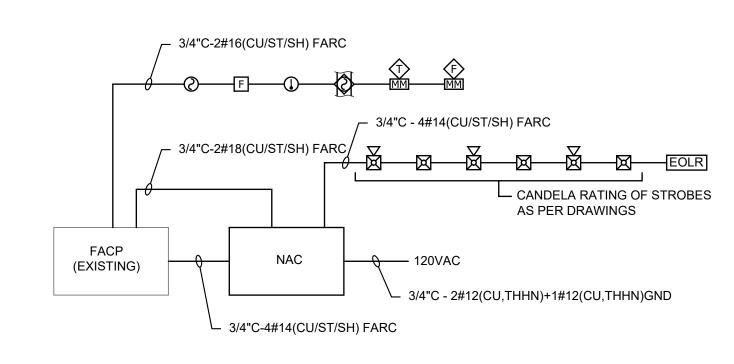
30 A

ACCESSIBLE CEILING SPACE BUSHING · GRID CEILING TYP. — (1) 3/4" EMT CONDUIT FOR TÉLE/DATA OUTLETS PARTITION OR WALL — LOW VOLTAGE OUTLET (TELE/DATA, FAX, CAT6, ETC.) FLUSH 4" SQUARE DEVICE BOX WITH SINGLE GANG PLASTER RING. DEPTH AS REQUIRED. 18" UNLESS OTHERWISE NOTED ON DRAWINGS

NOTES:

- 1. WIRING TO BE RUN ABOVE ACCESSIBLE CEILINGS IN A WORKMANLIKE MANNER. SUPPORT CABLES FROM STRUCTURE EVERY SIX FEET MIN. USING 'J' HOOKS, BRIDAL RINGS, OR OTHER APPROVED METHODS.
- 2. WHERE SPACE ABOVE THE CEILING IS BEING USED AS A RETURN AIR PLENUM, ALL CABLING NOT INSTALLED WITHIN CONDUIT SHALL BE PLENUM RATED.





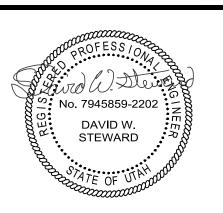
- 1. NOT ALL DEVICES SHOWN IN THIS RISER MAY BE REQUIRED ON THIS PROJECT AND NOT ALL DEVICES REQUIRED BY THIS PROJECT MAY BE SHOWN ON THIS RISER. HOWEVER, ALL REQUIRED DEVICES SHALL BE PROVIDED BY THE CONTRACTOR NECESSARY FOR A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM AS REQUIRED BY THE APPLICABLE CODES AND THE AUTHORITY HAVING JURISDICTION. WHEN QUESTIONS
- ARISE CONTACT THE ENGINEER FOR FURTHER CLARIFICATION. 2. SLC CIRCUIT IS TO BE CLASS B STYLE 4.5, NAC CIRCUIT TO BE CLASS B STYLE Y. T-TAPPING OF SLC IS NOT
- ACCEPTABLE. 3. ALL NEW REMOTE FIRE ALARM POWER SUPPLIES ARE TO BE ON A DEDICATED, 20A, 1P LOCKING TYPE.
- CIRCUIT BREAKER LABELED "FIRE ALARM CIRCUIT" WITH RED MARKING PER NFPA-72: 4.4.1.4.2.2. 4. RISER DIAGRAM IS FOR DIAGRAMMATIC PURPOSES ONLY. ELECTRICAL CONTRACTOR TO VERIFY EXACT
- NUMBER OF DEVICES IN PROJECT FROM DRAWINGS, NOT FROM THE RISER DIAGRAM. 5. THE LOCATION OF THE CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE
- ALARM POWER SUPPLIES. 6. PROVIDE A SMOKE OR HEAT DETECTOR ABOVE AND WITH IN 5' OF REMOTE FIRE ALARM POWER SUPPLY PER
- NFPA-72: 4.4.5. 7. THE LOCATION AND NUMBER OF REQUIRED POWER SUPPLIES SHALL BE AS PER THE MANUFACTURER OF THE FIRE ALARM EQUIPMENT. FIRE ALARM SUB-CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR TO ENSURE THAT NECESSARY CONDUIT AND WIRE (NOT NECESSARILY SHOWN ON THE DRAWINGS) ARE PROVIDED TO ALL REQUIRED AUXILIARY POWER SUPPLIES.





/ NO SCALE





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ION PA STATI SHIRE

CHRONOLOGY

PROJECT NO 23.117

DWN BY/ CHK BY NF/MM ES

> TITLE **ELECTRICAL SCHEDULES**

24X36 SHEET#

E601