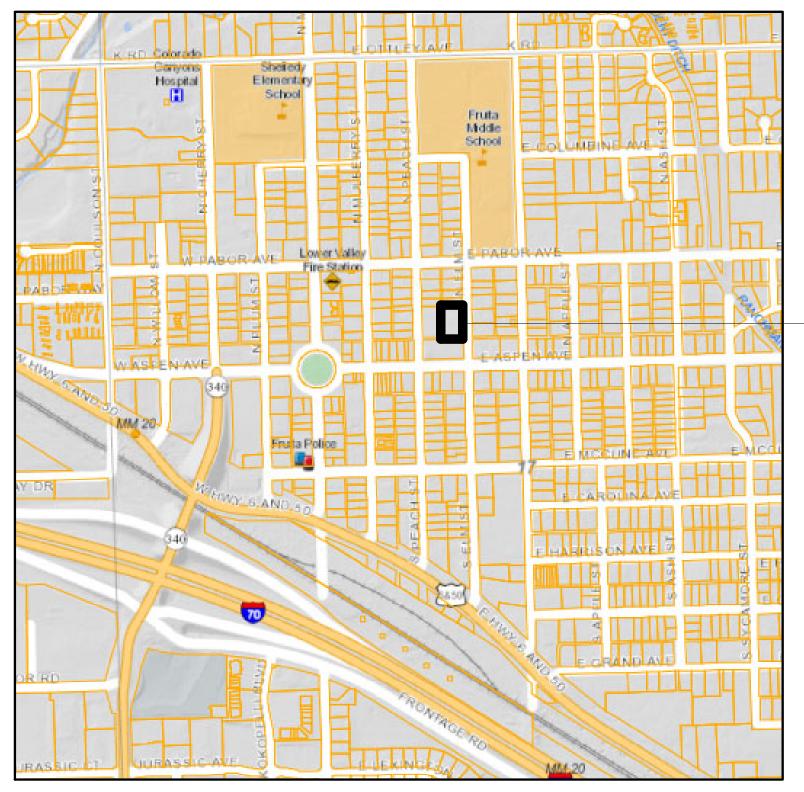


VICINITY MAP



PROJECT ADDRESS: 325 E. ASPEN AVE FRUITA, CO 81521

FRUITA CIVIC CENTER OFFICE REMODEL

OWNER

CITY OF FRUITA 325 E Aspen Ave Fruita, CO 81521

DESIGN TEAM

ARCHITECT: CHAMBERLIN ARCHITECTS 437 Main St. Grand Junction, CO 81501 (970) 242-6804

STRUCTURAL:

BUCKHORN ENGINEERING 222 S. Park Avenue Montrose, CO 81401 (970) 497-8845

MECHANICAL:

RALSTON MECHANICAL CONSULTING 356 Echo Canyon Court Grand Junction, CO 81507 (970) 434-9819

ELECTRICAL

RON SLADE PE LLC 745 Rood Ave Grand Junction, CO 81501 (970) 201-4302

DRAWING LIST

GENERAL COVER SHEET G001 ARCHITECTURAL NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES A001 A002 CODE CHECKLIST & LIFE SAFETY PLAN A101 **DEMO & NEW FLOOR PLANS REFLECTED CEILING PLANS** A121 A401 INTERIOR ELEVATIONS A402 INTERIOR ELEVATIONS AND FURNITURE PLAN A701 DOOR SCHEDULE, DOOR & FRAME TYPES A711 DETAILS STRUCTURAL S100 STRUCTURAL FRAMING DETAILS **1ST FLOOR STRUCTURAL MODIFICATIONS** S200 MECHANICAL

- MECHANICAL LEGEND AND SCHEDULES M001
- M002 MECHANICAL SPECIFICATIONS
- M011 MECHANICAL DEMOLITION PLANS MECHANICAL PLAN M101

ELECTRICAL

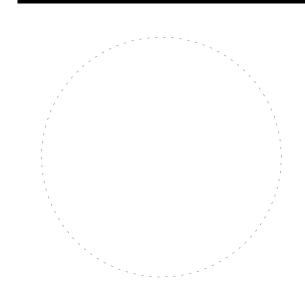
TITLE SHEET DETAILS SCHEDULES E001

- E101 DEMOLITION LIGHTING POWER
- SPECIFICATIONS E701

FRUITA, COLORADO



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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

COVER SHEET

ISSUED FOR:

DATE:

PROJECT STATUS:

CONSTRUCTION DOCUMENTS

DATE: 11/7/2022

SHEET NO:



ARCHITECTURAL ABBREVIATIONS

ABV	above
ACC	accessories
AFF	above finished floor
ALT	alternate
AL	aluminum
APC	acoustical panel ceiling
ARCH	architect (ural)
ASPH	asphalt
A/C	air conditioning
BCS	baby changing station
BD	board
BLDG	building
BLKG	blocking
BO	bottom of
BRG	bearing
CBU	cementitious backer unit
CG	corner guard
CJ	control joint
CLG	ceiling
CLR	clear (ance)
CMU	concrete masonry unit
COL	column
CONC	concrete
CONT	continuous or continue
CORR	corridor
CPET	common path of egress travel
CPT	carpet (ed)
CSMT	casement
CT	ceramic tile
CTR	center
CWOG	center wall on grid
DBL	double
DEMO	demolish / demolition
DF	drinking fountain
DIM	dimension (s)
DIR	direction
DISP	dispenser
DN	down
DR	door
DS	downspout
DTL	detail
DWG	drawing
DWR	drawer
E	east
EA	each
EC	evaporative cooler
EG	etched glass/glazing

EIFS EJ ELEC EM EWC EWG EQ EXG EXH EXP EXT	exterior insul finish sys expansion joint elevation electric (al) emergency electric water cooler end wall corner guard equal existing exhaust exposed exterior
FBO	furnished by owner
FD	floor drain
FDN	foundation
FE	fire extinguisher
FEC	fire extinguisher cabinet
FEP	finished end panel
FFE	finished floor elevation
FIN	finish
FLG	flashing
FLR	floor (ing)
FLUR	fluorescent
FO	face of
FRMG	framing
FRP	fiber reinforced plastic
FT	foot (feet)
FTG	footing
GA	gage, gauge
GAL	gallon
GALV	galvanized
GB	grab bar
GC	general contractor
GL	glass, glazing
GWB	gypsum wallboard
GYP	gypsum
HAS HB HCP HDR HDW HM HOR HSS HT HVAC HWD	headed anchor stud hose bibb handicap (ed) header hardware hollow metal horizontal hollow structural sections height heating /ventilation / air conditioning hardwood

INCL	include (d) (ing)
INSUL	insulate (d) (ing)
INT	interior
INV	invert
JST	joist
JT	joint
L	length, angle
LAM	laminate (d)
LAV	lavatory
LB	pound
LF	lineal foot
LG	laminated glass, glazing
LIN	linoleum
LT	light
MA	match
MAS	masonry
MATL	material
MAX	maximum
MB	marker board
MECH	mechanic (al)
MFR	manufacture (r) (d)
MH	manhole
MIN	minimum
MISC	miscellaneous
MLD	molding, moulding
MO	masonry opening
MT	mount (ed) (ing)
MTL	metal
N	north
N/A	not applicable
NIC	not in contract
NOM	nominal
NTS	not to scale
NECY	necessary
OC OD OFCI	on center (s) outside diameter owner furnished, contractor installed
OFD OFOI	contractor installed overflow drain owner furnished, owner installed
OH	overhead
OL	occupant load
OLF	occupant load factor

OPG OPH OPP OSB OTS	opening opposite hand opposite oriented strand board open to structure	
PB PERF PERIM PLAM PLT PNL PNT PR PROJ PSF PSI PTD PTD PTD PTD PVC PVMT PWD	particle board perforate (d) perimeter plastic laminate plate panel paint (ed) pair projector, projection pounds per square foot pounds per square inch pressure treated paper towel dispenser partition polyvinyl chloride pavement plywood	
QT	quarry tile	
R RB REC RCMD RE REF REIN REQ REV RD RFG RH RM RO ROW RR RTU RUB	riser, radius rubber base recycling recommend (ed) (ations) reference refrigerator reinforce (d) (ing) required revision (s), revised roof drain roofing robe hook room rough opening right of way restroom roof top unit rubber	
S SAG SC SCH SD	south susp acoustic grid shower curtain rod & hooks schedule soap dispenser	

SHT

SIM

SNV

SQ

SS

SST

STD

STL

Т

ΤB

TD

TEL

T.O.

TOC

TOS

TS

TYP

VB

VCT

VERT

VIF

VM

W

W/

WB

WF

WG

WR

sheet

similar

square

solid surface

standard

steel STOR storage

tread

towel bar

telephone

top of steel

TPD toilet paper dispenser

tube steel

typical

T&G tongue and groove

UNO unless noted otherwise

vapor barrier

verify in field

vending machine

vertical

VTR vent through roof

VNL vinyl sheet

vinyl composition tile

top of

TOW top of wall

travel distance

top of concrete

STR structural

SUSP suspended

stainless steel

SND sanitary napkin disposal

sanitary napkin vendor

SHTG sheathing

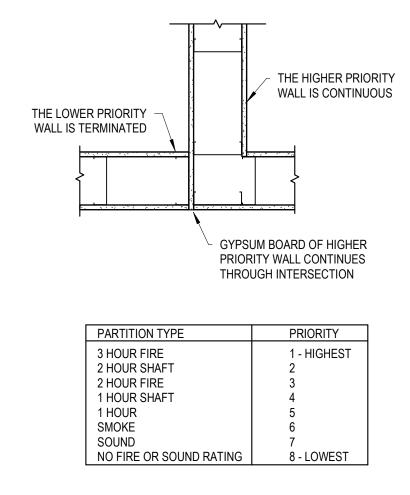
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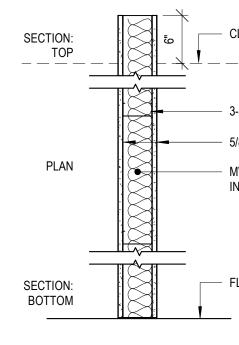
SPKR speaker

west, wide, width with wood base WC watercloset WD wood WDW window wide flange wire glass W/O without WP waterproof (ing) waste receptacle WRB weather resistive barrier

WWM welded wire mesh

PARTITION PRIORITY





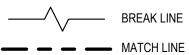
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PARTITION PRIORITY

1 WALL TYPES A001

SYMBOLS

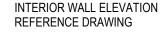
	REVISION		ANGLE
+ TOP OF WALL 100' 0"	_ ELEVATION	φ	DIAMETER
(A)— - —	COLUMN GRID LOCATION	\bot	PERPENDICULAR
(101A)	DOOR NUMBER	R	PLATE
AL HM	WINDOW TYPE	±	PLUS OR MINUS
¢	CENTER LINE	FD	FLOOR DRAIN
	LINE OF WALL ABOVE OR HIDDEN LINE	Æ	FIRE EXTINGUISHER



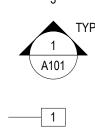


ROOM NAME ROOM NUMBER





TYP REFERENCED SECTION NUMBER SHEET NUMBER

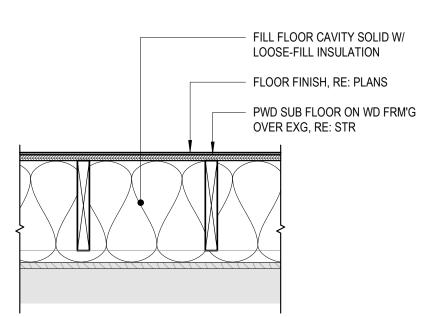


A101

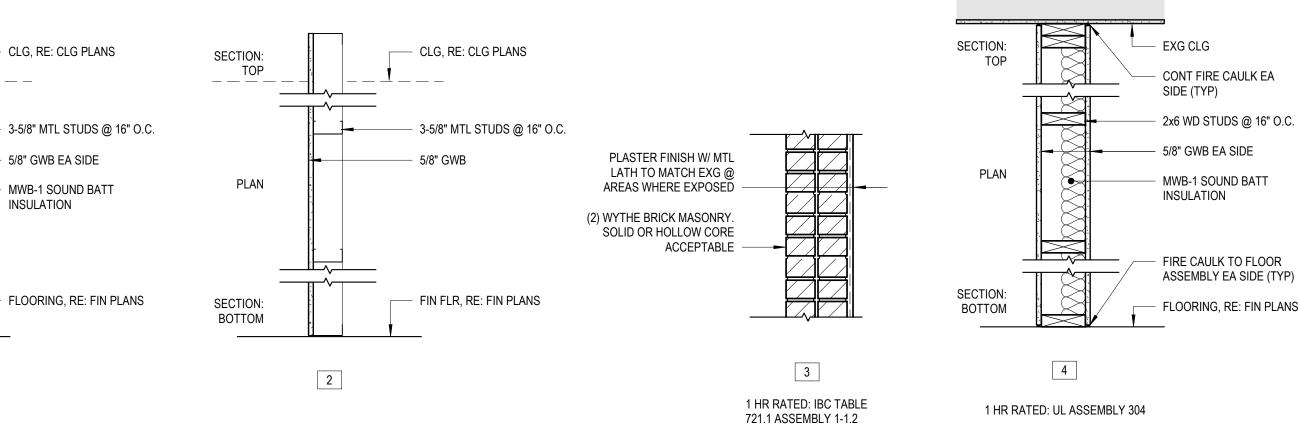
BASIC WALL TYPE



REFERENCED DETAIL NUMBER SHEET NUMBER







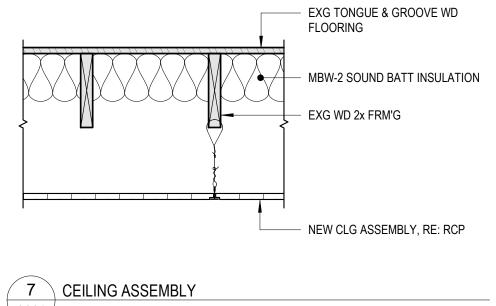
GENERAL NOTES

- 1. COMPLY WITH ALL MANUFACTURERS RECOMMENDATIONS AND INDUSTRY STANDARDS RELEVANT TO THE WORK HEREIN.
- 2. ALL DIMENSIONS ARE FROM FACE OF FINISH UNO. 3. ALL ALIGNMENTS ARE FACE OF FINISH UNO.
- 4. FIELD VERIFY ALL DIMENSIONS AND ROUGH OPENINGS PRIOR TO FABRICATION AND/OR INSTALLATION.



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A001 _____6"___1'

CONT FIRE CAULK EA

NOTES:

OTHERWISE.

1. WALL TYPE CHANGES OCCUR AT CORNERS OR INTERSECTIONS OF WALLS UNLESS NOTED

FIRE CAULK TO FLOOR ASSEMBLY EA SIDE (TYP)

- FLOORING, RE: FIN PLANS

FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

NOTES, SYMBOLS, ABBREVIATIONS AND WALL TYPES

ISSUED FOR:

DATE:

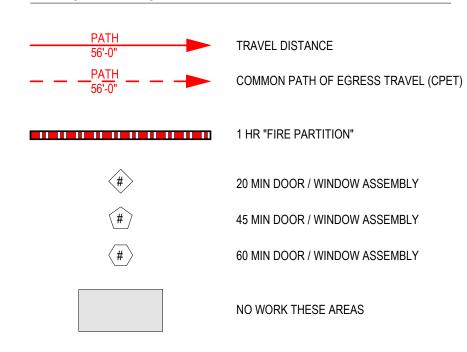
PROJECT STATUS: CONSTRUCTION DOCUMENTS

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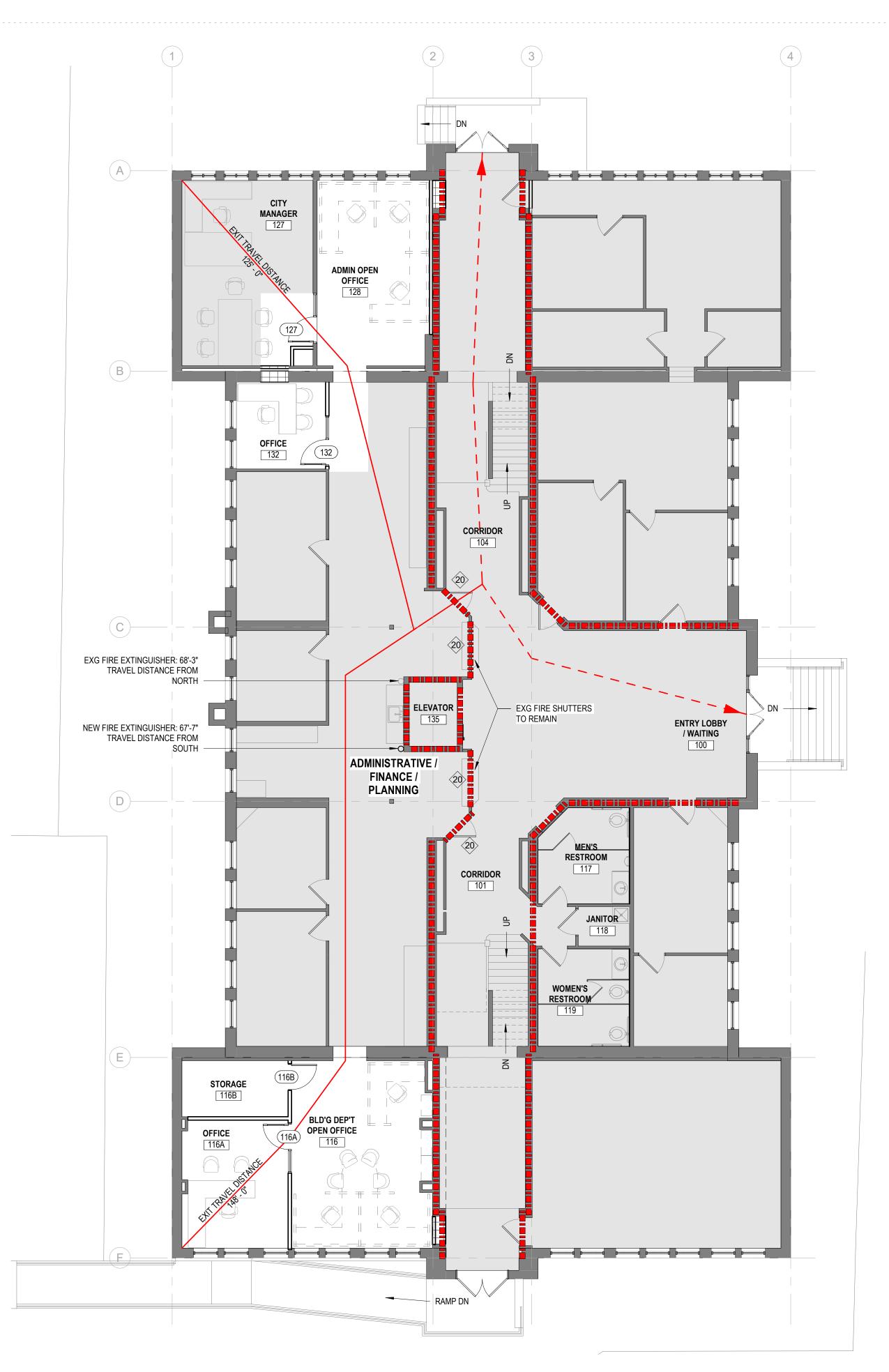




GENERAL LIFE SAFETY NOTES

1. BUILDING WILL REMAIN OCCUPIED DURING CONSTRUCTION OPERATIONS SO FOLLOW INTERIM LIFE SAFETY MEASURES (ILSM) TO PROVIDE/MAINTAIN EGRESS ROUTES FROM THE BUILDING.

IF FIRE ALARM SYSTEM IS NOT FULLY OPERATIONAL DURING CONSTRUCTION OPERATIONS PROVIDE "FIRE WATCH" OR OTHER MEANS OF TEMPORARY LIFE SAFETY MEASURES APPROVED BY THE AUTHORITIES HAVING JURISDICTION (AHJ) WHILE THE SYSTEMS IN QUESTION ARE NOT FULLY FUNCTIONAL.





CODE CHECKLIST

CODES IN USE (PER MESA COUNTY BUILDING DEPARTMENT):

TYPE OF OCCUPANCY:

TYPE OF CONSTRUCTION:

SPRINKLER SYSTEM:

BASIC ALLOWABLE BUILDING AREA (A) (TABLE 506.2):

ALLOWABLE NUMBER OF STORIES (TABLE 504.4):

EXISTING NUMBER OF STORIES:

ALLOWABLE AREA INCREASE ALLOWABLE FLOOR AREA (A)

(TABLE 506.2):

SITE SET BACKS FRONT YARD: SIDE YARD: REAR YARD:

ALLOWABLE INCREASE FOR FRONTAGE (SECTION 506.3):

TOTAL AREA INCREASE (EQUATION 5-2):

TOTAL ALLOWABLE AREA:

TOTAL EXISTING AREAS BASEMENT: FIRST FLOOR: SECOND FLOOR: TOTAL:

TOTAL AREA OF RENOVATION:

AREA OF WORK OCCUPANT LOAD

ADMINISTRATIVE / FINANCE / PLANNING: BUILDING DEPARTMENT: TOTAL:

CORRIDOR WIDTH:

CORRIDOR FIRE RATING (FIRE PARTITION TABLE 1020.1):

EXIT WIDTH REQ'D (SECTION 1005):

EXIT WIDTH PROVIDED:

EXIT TRAVEL DISTANCE

FIRE EXTINGUISHER:

(SECTION 1017.2):

2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL PLUMBING CODE (IPC) 2018 INTERNATIONAL FUEL GAS CODE (ÌFGĆ) 2020 NATIONAL ELECTRICAL CODE (NEC) 2018 INTERNATIONAL FIRE CODE (IFC) 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

GROUP B

TYPE V-B N/A

9,000 SQ FT

2

2

9,000 SF

30 FT TO ASSUMED PROPERTY LINE 30 FT TO ASSUMED PROPERTY LINE 30 FT TO ASSUMED PROPERTY LINE

If = [F/P - 0.25] W/30 If = [(442.5 FT / 442.5 FT) - 0.25] * 30/30 = 0.75

A_a =[A + (NS * I_f)] * S_a $A_a = [9,000 + (9,000 * 0.75)] * 2$ A_a = [9,000 + 6,750] * 2 = 31,500 SF

31,500 SF

5,026 SF 8,670 SF 8,621 SF 22,317 SF

1,000 SF

2,575 SF / 150 GROSS = 17.2 650 SF / 150 GROSS = 4.3

22

58" PROVIDED (44" REQ'D)

1-HR

7"

72"

200' MAX W/ OUT SPRINKLER SYSTEM

1 WITHIN 75' OF TRAVEL



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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

CODE CHECKLIST & LIFE SAFETY PLAN

ISSUED FOR:

DATE:

PROJECT STATUS: CONSTRUCTION DOCUMENTS

DATE: 11/7/2022

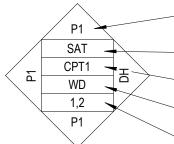
SHEET NO:



GENERAL DEMOLITION NOTES

- 1. SEE PROJECT MANUAL SPECIFICATIONS AND REQUIREMENTS FOR DEMOLITION. 2. THE DOCUMENTS SHOW THE OVERALL EXTENT OF DEMOLITION REQUIRED. ALTHOUGH EACH COMPONENT MAY NOT BE SHOWN
- OR REFERENCED, REMOVE ITEMS CONSISTENT WITH THE NATURE OF DEMOLITION INDICATED. 3. ALL CONDITIONS ARE EXISTING; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE
- PROJECT CONDITIONS. RECORD AND REPORT ALL DEVIATIONS TO THE ARCHITECT AS SOON AS POSSIBLE. 4. DO NOT DEMOLISH STRUCTURAL ELEMENTS WITHOUT APPROVAL
- FROM STRUCTURAL ENGINEER. PROVIDE TEMPORARY SHORING AND BRACING AS NEEDED TO MAINTAIN STRUCTURAL INTEGRITY REMOVE LOOSE OR CRACKED MATERIAL AT AREAS ADJACENT TO
- INDICATED DEMOLITION IF DAMAGED BY DEMOLITION OPERATIONS. PATCH AREAS WITH MATCHING MATERIAL AND WORKMANSHIP
- 6. PERIMETER STRUCTURAL CONDITIONS ARE UNKNOWN. CONTRACTOR IS TO COORDINATE ALL PLUMBING EXIT POINTS WITH STRUCTURAL ENGINEER PRIOR TO PENETRATING GRADE BEAMS.
- 7. AT WALLS, FLOORS AND CEILING AREAS INDICATED FOR DEMOLITION, REMOVE ALL INTEGRAL DEVICES AND EQUIPMENT PRESENT UNLESS OTHERWISE INDICATED.
- 8. ITEMS NOT NOTED FOR DEMOLITION ARE TO BE PROTECTED FROM DAMAGE AND PREPARED TO RECEIVE NEW WORK. SURFACES TO REMAIN THAT ARE DAMAGED DURING THE PERFORMANCE OF REQUIRED DEMOLITION SHALL BE PATCHED AND/OR PAINTED TO MATCH EXISTING TO REMAIN ADJACENT SURFACES UNLESS NOTED OTHERWISE.
- 9. RECYCLE MERCHANTABLE MATERIALS TO THE GREATEST EXTEND POSSIBLE, I.E. STEEL. 10. RESTORE THE FIRE PROTECTION RATING OF FIRE-PROTECTED
- CONSTRUCTION INDICATED TO REMAIN IF DAMAGED BY DEMOLITION OPERATIONS. FIRE-PROTECTED CONSTRUCTION INCLUDES STRUCTURAL MEMBERS, WALL, FLOOR, CEILING AND ROOF ASSEMBLIES COVERED WITH SPRAY FIREPROOFING OR DESIGNATED AS A RATED COMPONENT OR ASSEMBLY WITHIN THE DOCUMENTS.

INTERIOR FINISH LEGEND



WALL FINISH (NORTH, SOUTH, EAST, WEST) **CEILING FINISH** FLOOR FINISH

BASE FINISH

FINISH NOTES

NOTE:

PATTERN AT CEILINGS, RE: REFLECTED CEILING PLAN A121 FLOORING TRANSITION FROM EXISTING CPT TO NEW CARPET, RE: 9 / A401

WALL FINISHES

P# - CMU OR GYPSUM WALLBOARD W/ PAINT

ALUM/GL - ALUMINUM AND GLASS STOREFRONT

CEILNG FINISH

APC - SUSPENDED ACOUSTICAL PANEL CEILING GRID AND TILE

P# - GYPSUM WALLBOARD WITH PAINT.

EXG - EXISTING CEILING TO REMAIN, PAINT IF INDICATED

FLOOR FINISHES

CPT - CARPET

BASE FINISHES

RUB - RUBBER BASE

FINISH NOTES

INSTALL CARPET TILE WITH HERRINGBONE PATTERN 2. INSTALL CARPET TILE WITH BRICK ASHLAR PATTERN

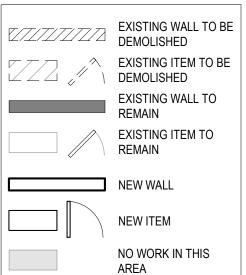
GENERAL NEW CONSTRUCTION NOTES

- 1. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION
- FROM THE ARCHITECT PRIOR TO CONTINUING CONSTRUCTION. 2. ITEMS NOT NOTED ON THE DRAWINGS SHALL BE CONSIDERED THE SAME AS NOTED ITEMS WHICH ARE GRAPHICALLY REPRESENTED IN THE SAME
- MANNER. PROVIDE TREATED SOLID WOOD BLOCKING FOR ALL WALL EQUIPMENT, TOILET ACCESSORIES, MILLWORK AND OTHER WALL MOUNTED ITEMS. SEE ELEVATIONS AND EQUIPMENT SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE DOUBLE STUDS AT COUNTERTOP BRACKETS
- 4. CONTRACTOR SHALL CAULK AT THE INTERFACE OF INTERIOR FACES OF DOOR FRAMES WITH ADJACENT MATERIALS THOUGH JOINT MAY NOT BE VISIBLE.
- 5. WHERE EXISTING FINISHES ARE REQUIRED TO BE REMOVED TO INSTALL NEW FINISHES, PATCH AND REPAIR WALL SURFACES TO ACCEPT NEW FINISHES AND CONCEAL ALL TRANSITIONS.
- 6. MAINTAIN RATINGS OF EXISTING WALLS, PATCH AND REPAIR ANY NEW OR EXISTING OPENINGS IN RATED WALLS WITH UL ASSEMBLY APPROVED FOR PENETRATING ITEM AND WALL ASSEMBLY
- PROVIDE TRANSITION STRIPS BETWEEN FLOOR MATERIALS OF DISSIMILAR HEIGHTS. CENTER TRANSITION STRIPS UNDER DOORS OR
- OTHER PLACES OUT OF SIGHT. 8. RECONFIGURE FIRE ALARM DEVICES AS PER THE ELECTRICAL CODE OR AS INDICATED. PROVIDE NEW FIRE ALARM DEVICES IF EXISTING ARE NOT OPERATIONAL.
- 9. FIELD VERIFY EXISTING CORRIDOR WALLS AND ROOM SEPARATION WALLS ARE 1HR RATED WITH REQUIRED PENETRATION FIRESTOPPING. WHERE THESE WALLS DO NOT CURRENTLY MEET THE REQUIRED RATING MODIFY WALL TO MEET UL ASSEMBLY WITH SOUND BATTS. 10. FINISHES SHALL MATCH EXISTING UNLESS OTHERWISE NOTED.
- 11. MAIN STRUCTURE IS EXISTING AND THE CONFIGURATION OF THE SUPPORTING FOUNDATIONS ARE UNKNOWN. CONTRACTOR SHALL MAKE MODIFICATIONS AS NEEDED TO THE UNDERSLAB PLUMBING ROUTING TO MAINTAIN THE INTEGRITY OF THE STRUCTURE. ALL MODIFICATIONS THAT IMPACT THE LOCATION OF PLUMBING FIXTURES MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- 12. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE LOCATIONS OF PIPING, VENTS, DUCTS, CURBS, FANS AND OTHER ITEMS WHICH PENETRATE THE ROOF PLANE.
- 13. BACK OF DOOR JAMB LOCATION OFF FACE OF WALL IS 4", TYPICAL, UNLESS NOTED OTHERWISE.
- 14. FURNITURE PLAN FOR REFERENCE ONLY, RE: 3 / A402

DEMO KEYNOTES

- $\langle 1 \rangle$ REMOVE FLOORING AND BASE.
- REMOVE WALL TO PREPARE FOR NEW OPENING. NEW $\langle 2 \rangle$ OPENING SHOULD BE 4' - 0" CLR
- REMOVE EXISING DOOR, HARDWARE AND FRAME $\langle 3 \rangle$ SALVAGE DOOR AND HARDWARE, RETURN TO OWNER. PREPARE WALL FOR INFILL
- SALVAGE EXISITNG FULL SIZE CARPET TILE TO PATCH IN AS $\langle 4 \rangle$ NEEDED BETWEEN NEW AND EXISTING AREAS.
- REMOVE OR PROTECT IN PLACE EXISTING WINDOW BLINDS, $\langle 5 \rangle$ CLEAN, REPAIR AND REINSTALL AS PART OF NEW CONSTRUCTION

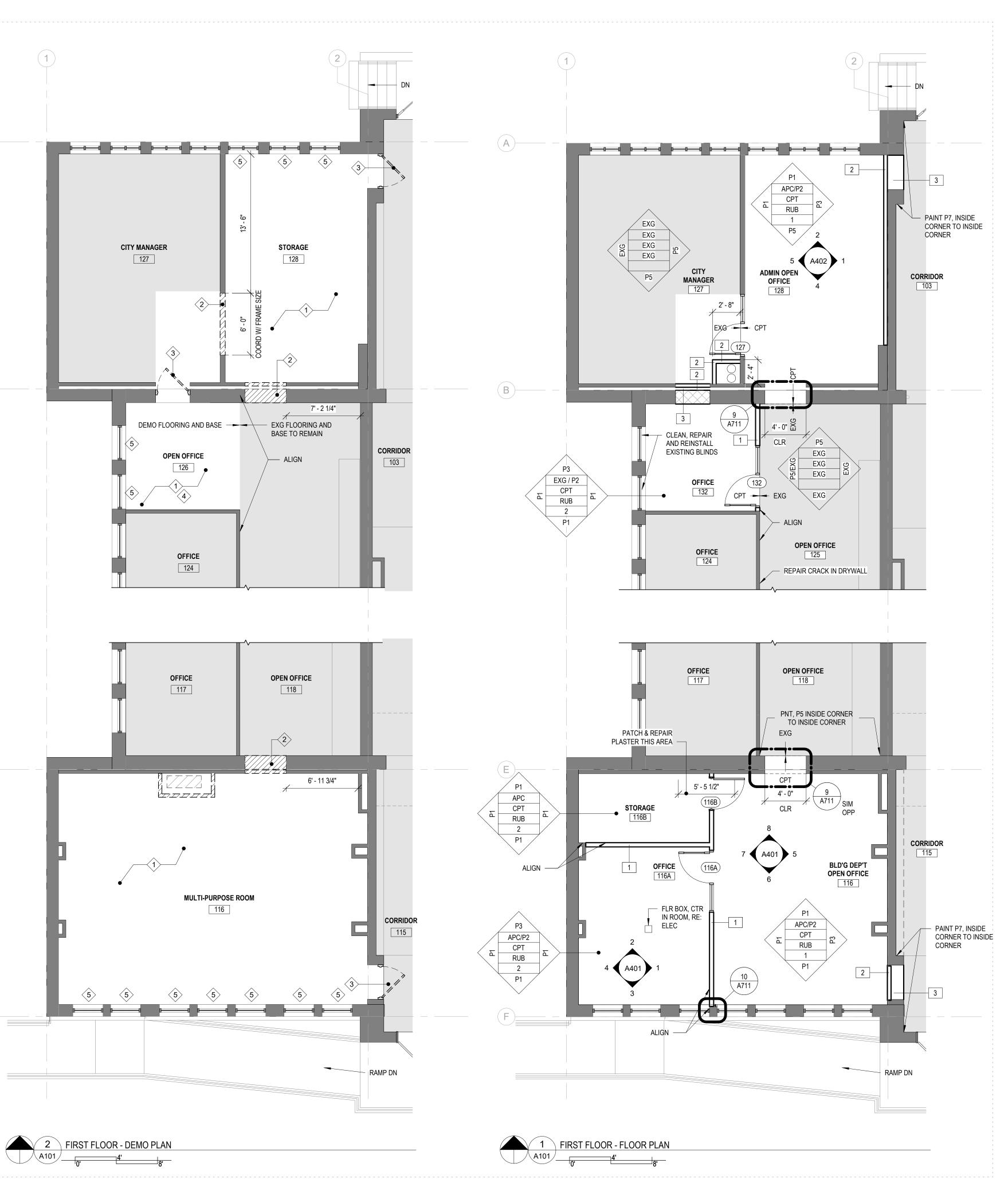
LEGEND



(E)

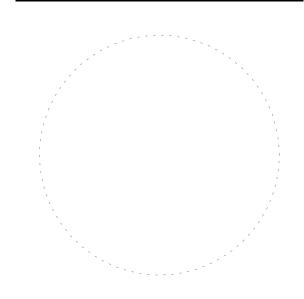
		INTERIOR COLOR SCHED	ULE
NUMBER	TITLE	ITEM	COLOR
05 5000	METAL FABRICATIONS	METAL AT WALL OPENING	P4
08 1113	HOLLOW METAL DOORS AND FRAMES	DOOR FRAMES	P4
08 1216	ALUMINUM FRAMES		POWDER COAT COLOR, TO BE SELECTED
08 1416	FLUSH WOOD DOORS		MATCH ARCHITECTS SAMPLE
09 5113	ACOUSTIC PANEL CEILING	APC	WHITE GRID AND TILE
09 6513	RESILIENT BASE AND ACCESSORIES	RUB	BURKE 112 SANDY TAN
09 6813	TILE CARPETING	CPT	MOHAWK, METALMORPHIC, COLOR DOWNING STONE METALLIC
09 9123	INTERIOR PAINTING	P1 - WALLS	SHERWIN WILLIAMS SW 7042 SHOJI WHITE
09 9123	INTERIOR PAINTING	P2 - CEILING AND SOFFITS	SHERWIN WILLIAMS SW 7551 GREEK VILLA
09 9123	INTERIOR PAINTING	P3 - ACCENT	BENJAMIN MOORE 482 MISTED FERN
09 9123	INTERIOR PAINTING	P4 - DOOR FRAMES	SHERWIN WILLIAMS SW 7030 ANEW GRAY
09 9123	INTERIOR PAINTING	P5 - MATCH EXISTING ADJACENT WALL	TO BE SELECTED, MATCH EXISTING ADJACENT WALL
09 9123	INTERIOR PAINTING	P6 - STEEL OPENING	BENJAMIN MOORE 1148 COGNAC SNIFTER
09 9123	INTERIOR PAINTING	P7 - MATCH EXISTING ADJACENT WALL	TO BE SELECTED, MATCH EXISTING ADJACENT WALL
12 2113	HORIZONTAL LOUVER BLINDS		TO BE SELECTED FROM MANUFACTURER'S STANDARD COLORS

(F)-





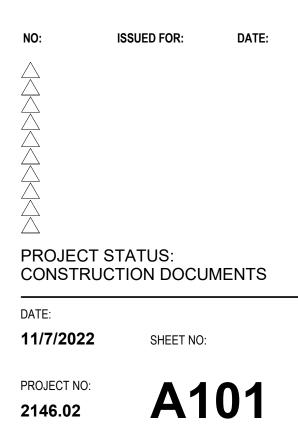
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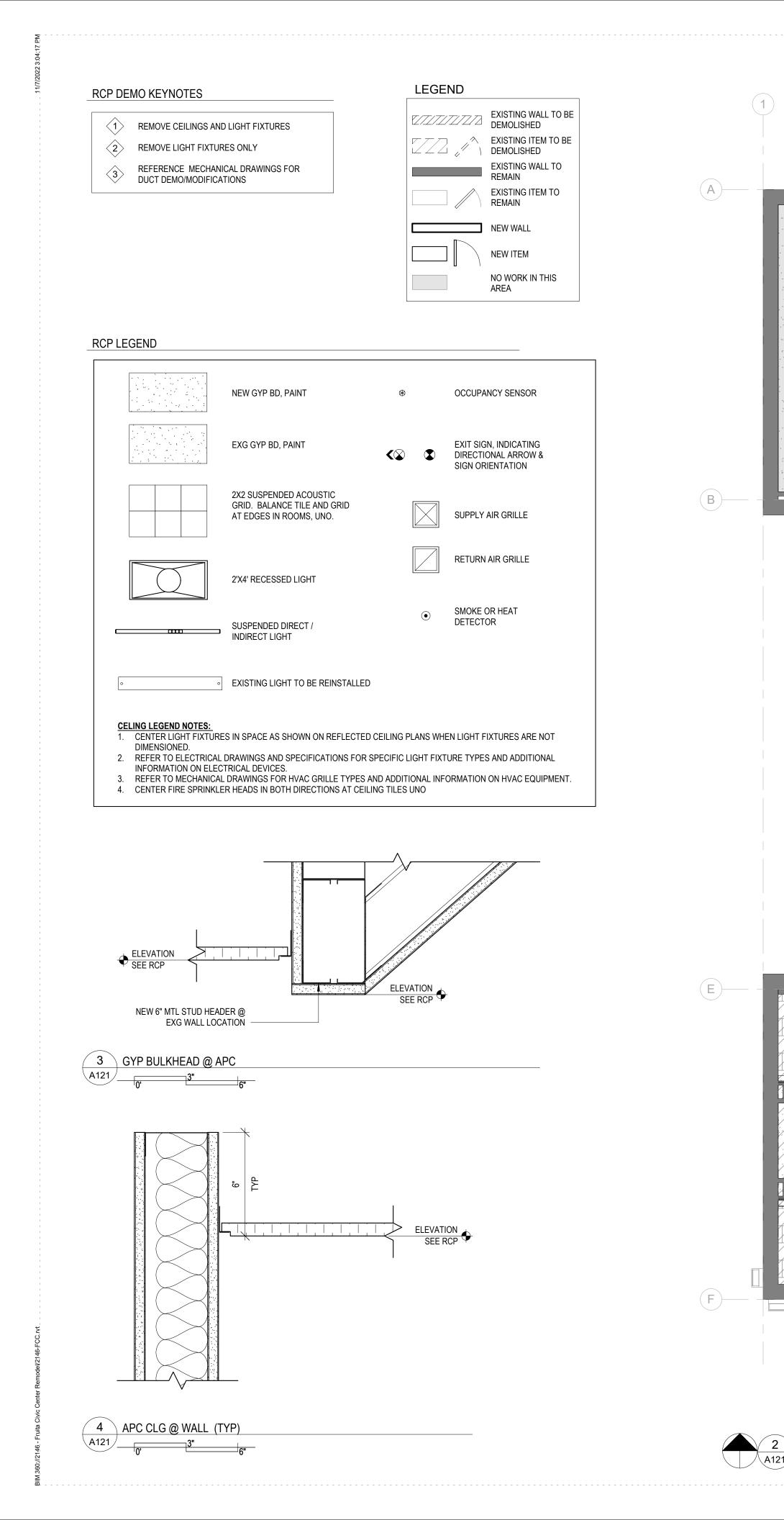


FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

DEMO & NEW FLOOR PLANS





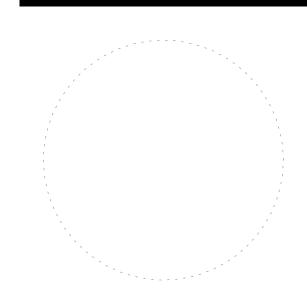






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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

REFLECTED **CEILING PLANS**



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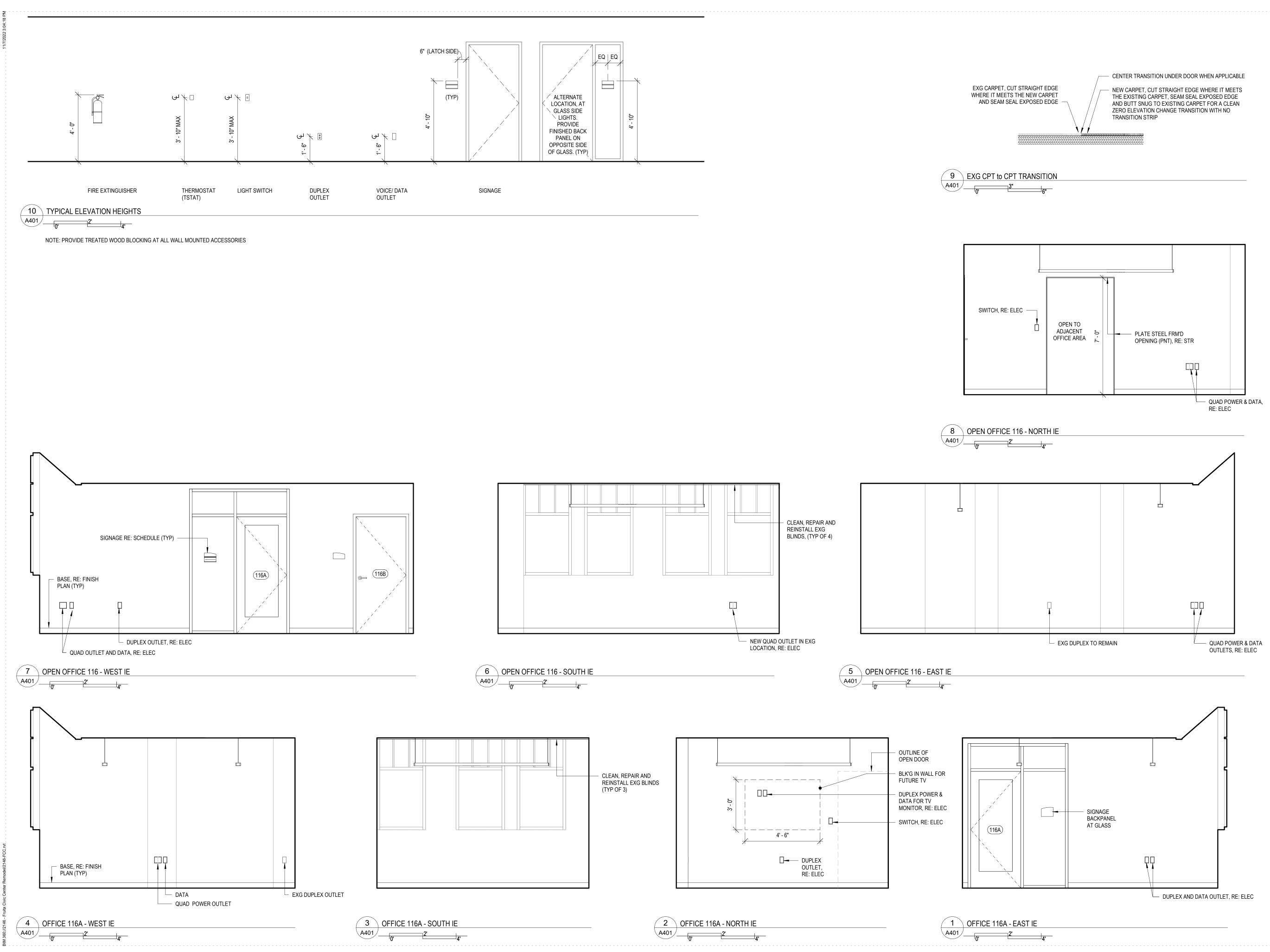
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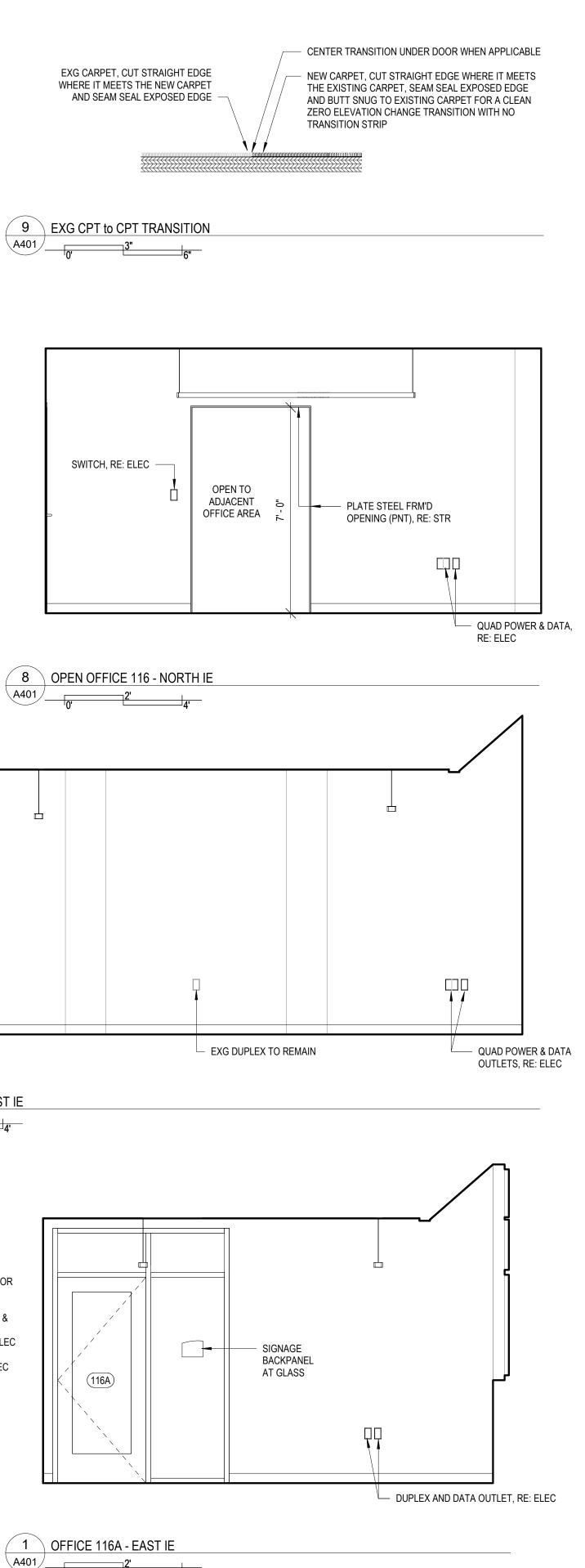
PROJECT STATUS: CONSTRUCTION DOCUMENTS

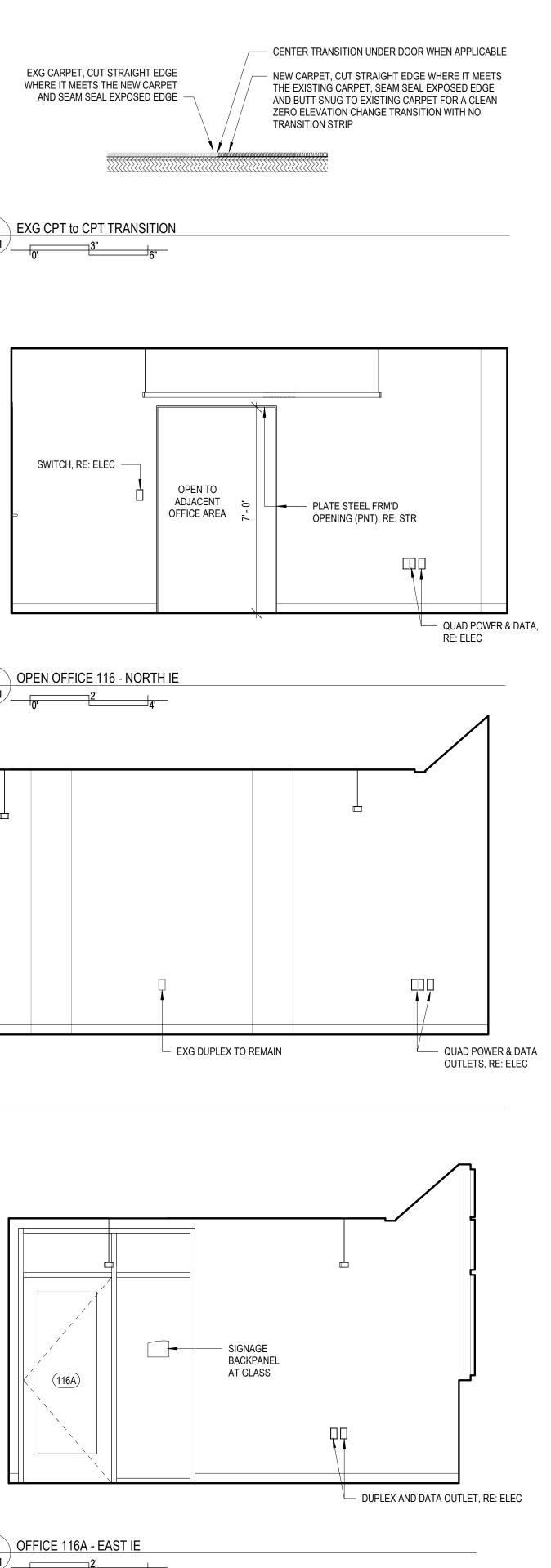
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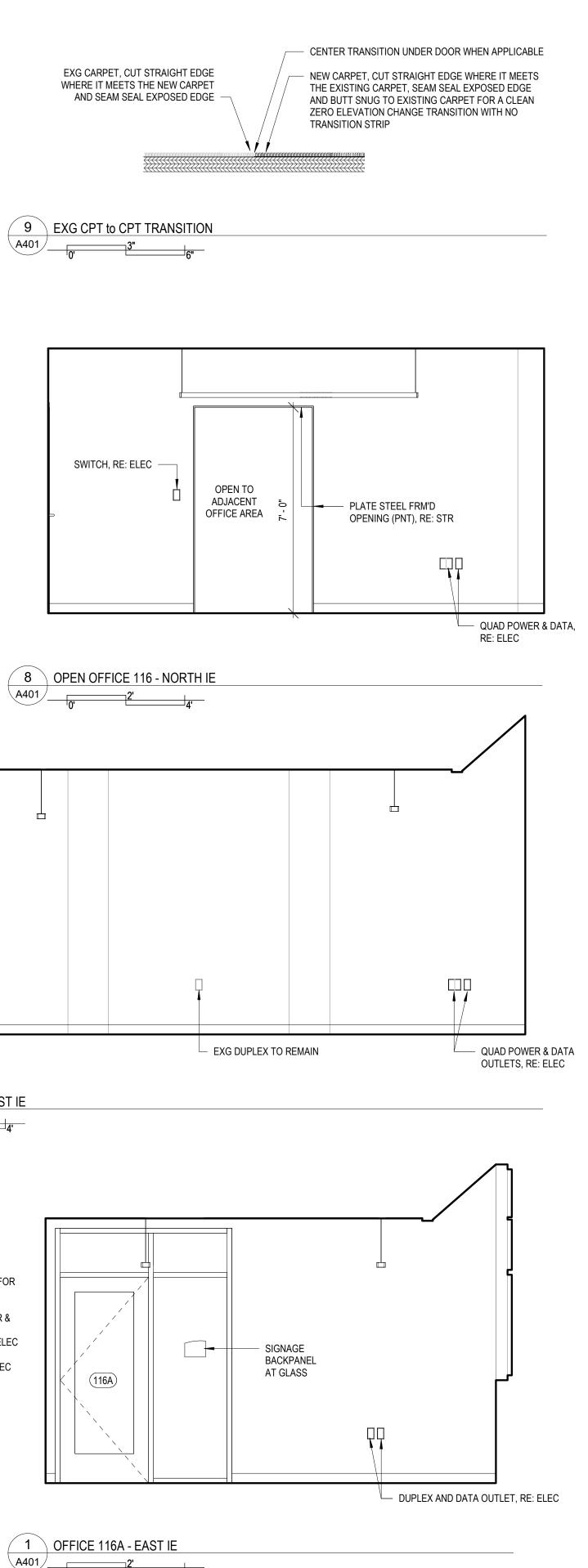
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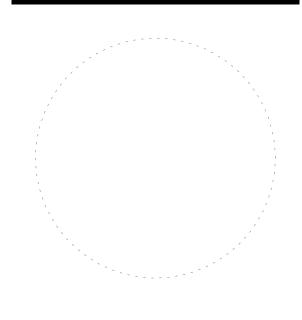








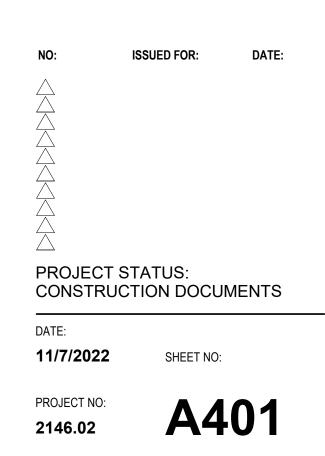


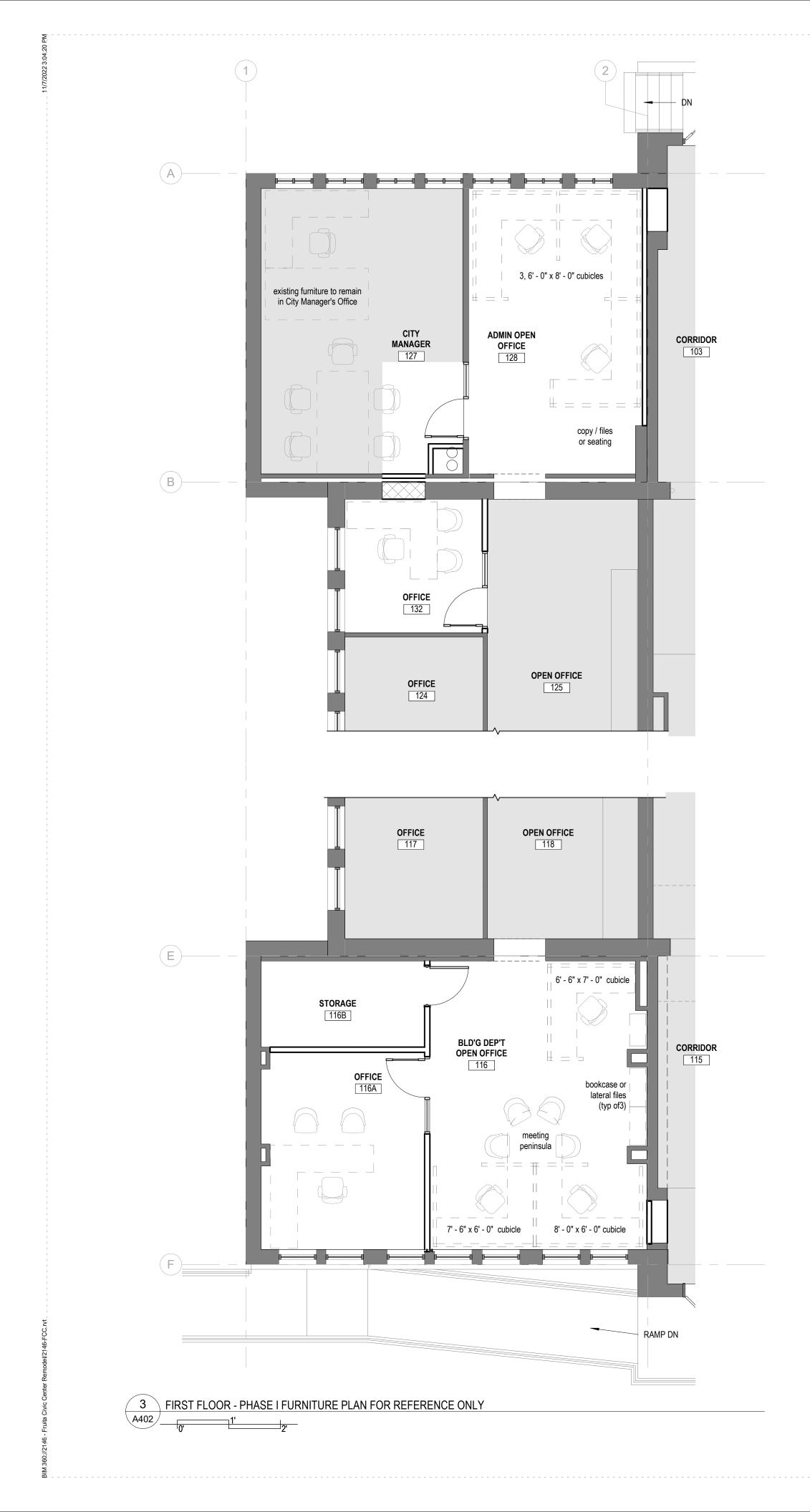


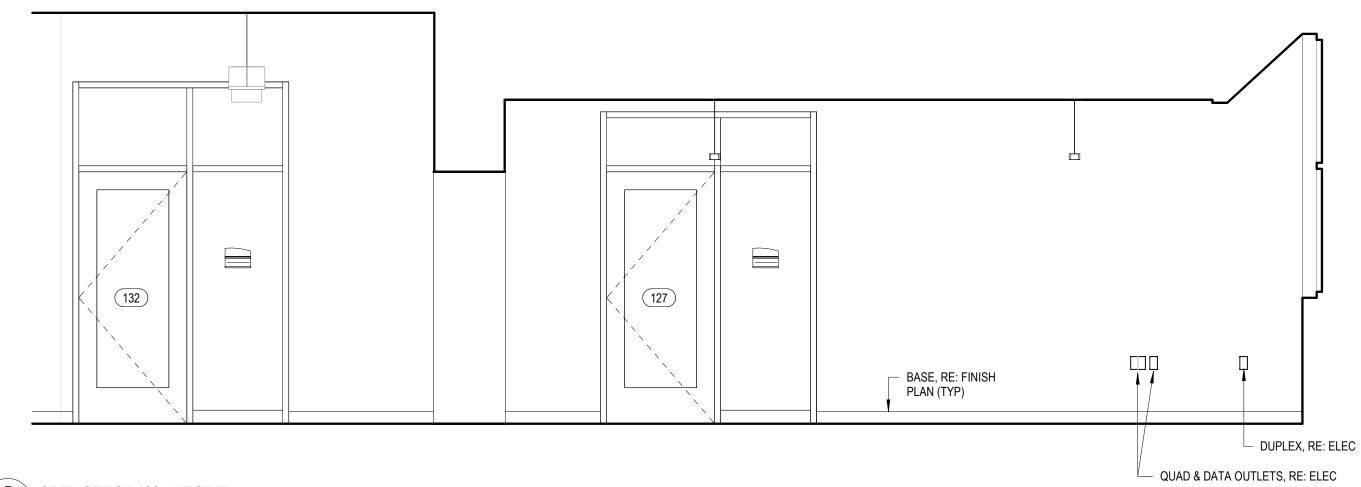
FRUITA CIVIC **CENTER - OFFICE** REMODEL

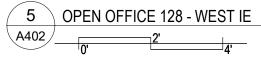
FRUITA, COLORADO

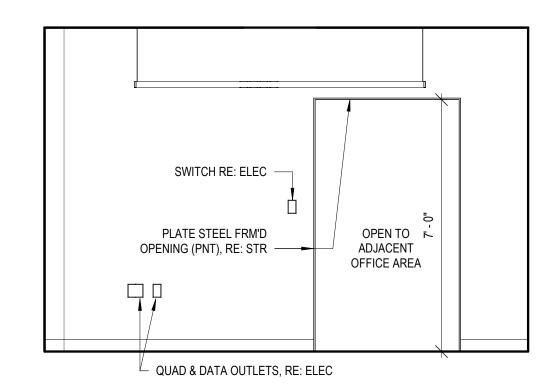
INTERIOR **ELEVATIONS**

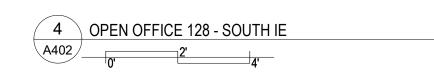


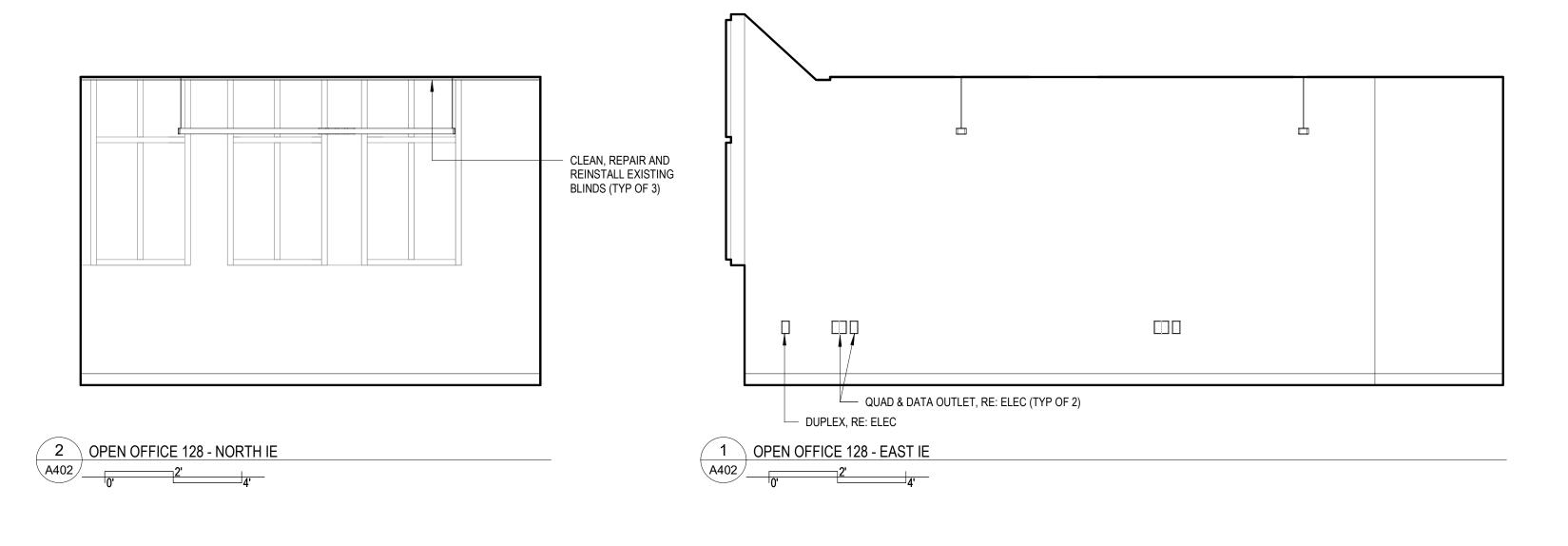




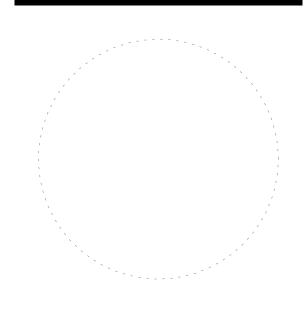












FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

INTERIOR ELEVATIONS AND FURNITURE PLAN

NO:

ISSUED FOR:

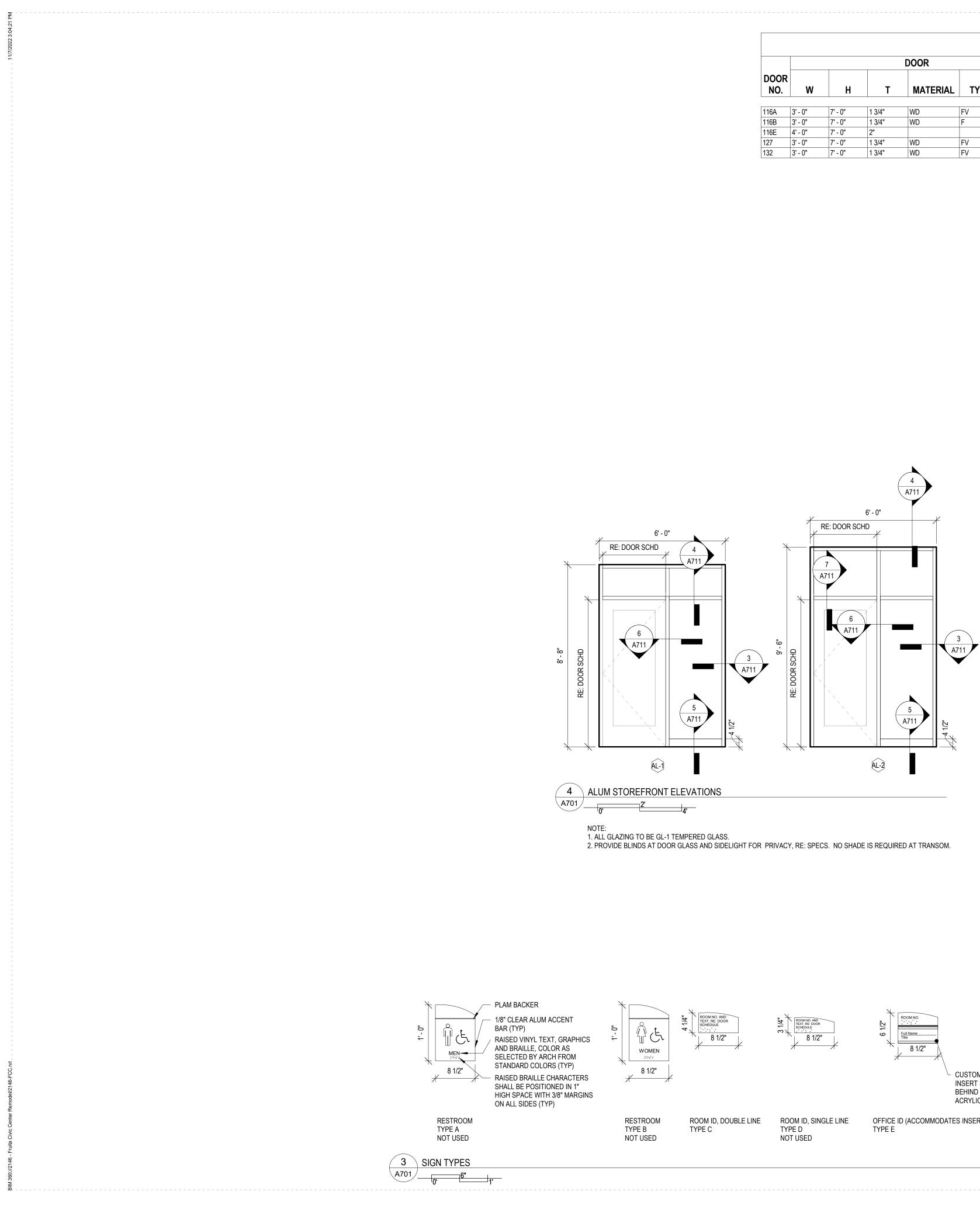
DATE:

PROJECT STATUS: CONSTRUCTION DOCUMENTS

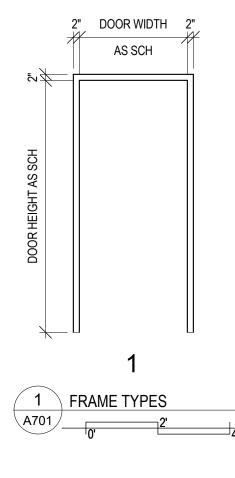
DATE: **11/7/2022**

SHEET NO:

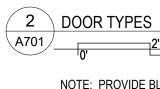




								D	OOR SCHEDU	LE					
				DOOR					FRAME						SIGNAGE
DOOR						FIRE				DETAIL		HDWR		SIGN	
NO.	W	Н	T	MATERIAL	TYPE	RATING	MATERIAL	TYPE	JAMB	HEAD	SILL	SET	NOTES	TYPE	TEXT
116A	3' - 0"	7' - 0"	1 3/4"	WD	FV	-	ALUM	AL-1	5/A711	6/A711	-	01		E	116A, NAME AND TITLE TBD
116B	3' - 0"	7' - 0"	1 3/4"	WD	F	-	HM	1	1/A711	2/A711	-	03		С	STORAGE 116B
116E	4' - 0"	7' - 0"	2"												
127	3' - 0"	7' - 0"	1 3/4"	WD	FV	-	ALUM	AL-1	5/A711	6/A711	-	02		E	127, NAME AND TITLE TBD
132	3' - 0"	7' - 0"	1 3/4"	WD	FV	-	ALUM	AL-2	5/A711	6/A711	-	01		E	132, NAME AND TITLE TBD



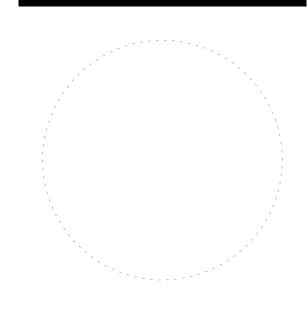


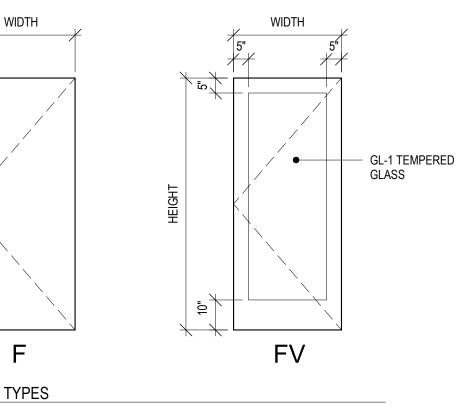


FRUITA CIVIC CENTER BUILDING DIRECTORY 2ND FLOOR BUSINESS INCUBATOR CENTER SMALL BUSINESS DEVELOPMENT CTR MUNICIPAL COURT COUNCIL CHAMBERS MEETING ROOMS & RESTROOMS WALL ROOM NO. 2' - 3" TEXT, RE: DOOR SCHEDULE VACANT 8 1/2" 8 1/2" 1ST FLOOR CITY OF FRUITA OFFICES RESTROOMS CUSTOM
 INSERT SLOT
 BEHIND CLEAR SLIDING TEXT
 BAR TO 1' - 5" IDENTIFY: ACRYLIC IN USE OR OPEN MEETING ROOM ID TYPE F NOT USED OFFICE ID (ACCOMMODATES INSERT) TYPE E BUILDING DIRECTORY TYPE G WALL MOUNTED RESTROOM SIGN TYPE H NOT USED NOT USED



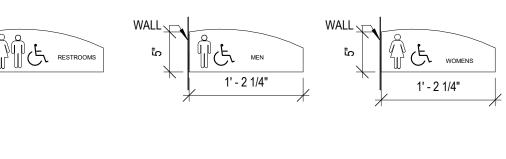
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____2'__ _____/'

NOTE: PROVIDE BLINDS AT DOOR GLASS FOR PRIVACY, RE: SPECS.



WALL MOUNTED MENS RESTROOM SIGN TYPE I NOT USED

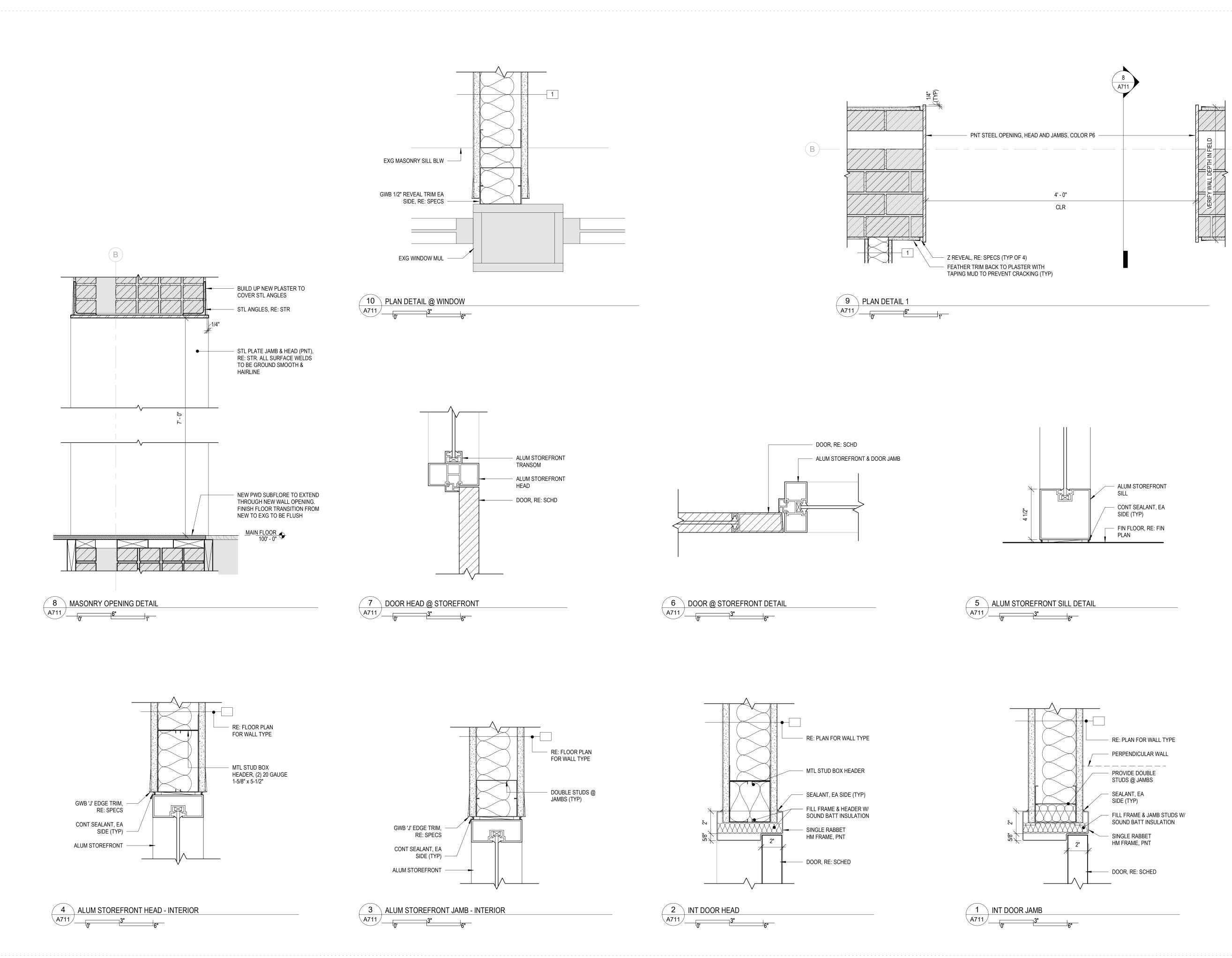
WALL MOUNTED WOMENS RESTROOM SIGN TYPE J NOT USED

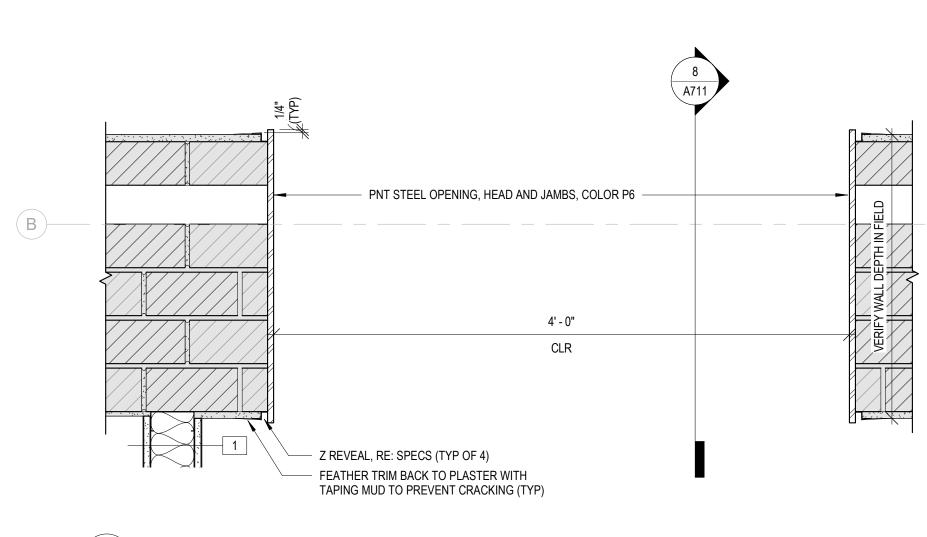


FRUITA, COLORADO

DOOR SCHEDULE, **DOOR & FRAME** TYPES

ISSUED FOR: DATE: NO: \square PROJECT STATUS: CONSTRUCTION DOCUMENTS DATE: 11/7/2022 SHEET NO: PROJECT NO: A701 2146.02

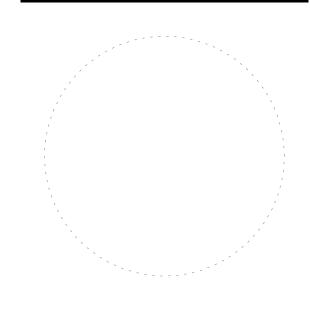






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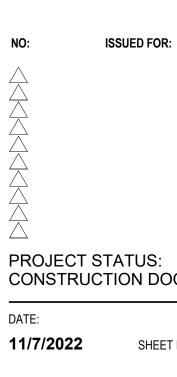
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FRUITA, COLORADO

DETAILS



DATE:

CONSTRUCTION DOCUMENTS

SHEET NO:

PROJECT NO: 2146.02

A711

GENERAL	NOTES

ALL WORK SHALL BE PERFORMED ACCORDING TO THE FOLLOWING NOTES AND APPLICABLE SECTIONS OF THE BUILDING CODE, UNLESS NOTED OTHERWISE ON THESE DOCUMENTS.
GENERAL CONDITIONS
ALL DETAILS DESIGNATED AS "TYPICAL DETAILS" APPLY CENERALLY TO THE

- DRAWINGS IN ALL AREAS WHERE CONDITIONS ARE SIMILAR TO THOSE SHOWN IN THESE DETAILS.
- SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC. ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE ANY SUCH REQUIREMENTS FROM ARCHITECTURAL. MECHANICAL, ELECTRICAL, OR PLUMBING DRAWINGS (IN ADDITION TO ANY REQUIRED ANCHORAGES) PRIOR TO FABRICATION OR CONSTRUCTION OF STRUCTURAL ELEMENTS. ANY CONFLICTS BETWEEN THESE ITEMS AND STRUCTURAL MEMBERS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
- VERIFY ALL OPENINGS THROUGH FLOOR, ROOF, AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
- NOTCHING OR CUTTING OF ANY STRUCTURAL MEMBER IS PROHIBITED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
- ALL DIMENSIONS ON STRUCTURAL PLANS TO BE CHECKED AGAINST ARCH'L PLANS. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
- STRUCTURAL ENGINEER'S APPROVAL MUST BE SECURED FOR ALL CHANGES FROM STRUCTURAL PLANS. ANY UNAUTHORIZED MODIFICATIONS ARE AT THE RISK OF THE PERSON MAKING THE CHANGE.
- CONTRACTOR SHALL INSTALL ADEQUATE TEMPORARY BRACING TO PROVIDE LATERAL STABILITY FOR THE STRUCTURE DURING DEMOLITION AND CONSTRUCTION.
- IMMEDIATELY NOTIFY THE ENGINEER IF, DURING CONSTRUCTION, A CONDITION WHICH IS NOT COVERED BY THESE DRAWINGS IS DISCOVERED.

2. DESIGN LOADS

DESIGN LIVE LOADING IS AS FOLLOWS:	
ROOF (SNOW)	
FLOOR	
OFFICES 50 PSF	
STORAGE 50 PSF	
BUILDING RISK CATEGORY II	
SEISMIC DESIGN CATEGORY B 2018 IBC	
WIND LOAD CRITERIA	
BASIC WIND SPEED 115 MPH (3-SECOND GU	JS
EXPOSURE C	
IMPORTANCE FACTOR 1.0	
DEAD LOADS ASSUMED IN THIS DESIGN ARE AS FOLLOWS:	
ROOF DEAD LOAD 20 PSF ROOF MEP COLLATERAL LOAD 10 PSF	
FUTURE RTU ALLOWANCE 20 PSF	

	FLOOR DEAD LOAD 15 PSF
	UPPER FLOOR MEP COLLATERAL LOAD 10 PSF
-	NOTIFY ENGINEER IF CONDITIONS WHICH WARRANT INCREASED DESIGN LOADING ARE DISCOVERED DURING DEMOLITION PHASE

- DESIGN LOADS USED FOR MECHANICAL EQUIPMENT ARE BASED ON WEIGHTS OF ASSUMED EQUIPMENT AS INDICATED ON THE MECHANICAL DRAWINGS. ANY SUBSEQUENT CHANGES OR VARIATIONS IN SIZE, TYPE, OR NUMBER OF UNITS SHOULD BE REPORTED TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF SUPPORTING MEMBERS. THIS SHALL BE DONE PRIOR TO THE PLACEMENT AND INSTALLATION OF THIS EQUIPMENT.
- 3. CODES AND SPECIFICATIONS
- BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
- STRUCTURAL STEEL: "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
- THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-16) - STRUCTURAL CONCRETE: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL
- CONCRETE (ACI 318–14)", THE AMERICAN CONCRETE INSTITUTE
- CONCRETE MASONRY: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16/ACI 530-16)", THE MASONRY SOCIETY/ THE AMERICAN CONCRETE INSTITUTE
- BRICK MASONRY: "RECOMMENDED PRACTICE FOR ENGINEERED BRICK MASONRY", THE BRICK INSTITUTE OF AMERICA
- 4. OBSERVATION / TESTING SCHEDULE
- STRUCTURAL ENGINEER SHALL INSPECT EXISTING FRAMING ONCE EXPOSED DURING THE DEMOLITION PHASE.
- STRUCTURAL ENGINEER SHALL PERFORM VISUAL INSPECTION OF ERECTED STEEL, INCLUDING WELDS AND BOLTED CONNECTIONS.
- A QUALIFIED THIRD-PARTY INSPECTOR SHALL PERFORM PERIODIC INSPECTION DURING ADHESIVE ANCHOR INSTALLATION.
- NOTIFY RESPONSIBLE FIRM AT LEAST ONE WORKING DAY PRIOR TO REQUESTING VERIFICATION, OBSERVATION, OR TESTING.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THESE DRAWINGS AND NOTIFY THE ENGINEER IN THE EVENT OF A DISCREPANCY PRIOR TO FABRICATION AND CONSTRUCTION. ENGINEER SHALL ALSO BE NOTIFIED TO PERFORM A SITE VISIT ONCE EXISTING CONDITIONS ARE EXPOSED AT LOCATIONS OF NEW STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS.

STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE BASED ON LOADING CONDITIONS SPECIFIED IN THE GENERAL NOTES, THIS SHEET. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNEXPECTED LOADING CONDITIONS THAT WERE NOT ANTICIPATED IN THE DESIGN.

- 5. STRUCTURAL WOOD FRAMING
- SIZES SHOWN FOR SAWN LUMBER FRAMING ARE NOMINAL SIZES. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE INTERNATIONAL BUILDING CODE.
- SAWN LUMBER: ALL SAWN LUMBER FOR STRUCTURAL FRAMING SHALL BE KILN DRIED HEM-FIR GRADED AS PER LATEST EDITION - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE NATIONAL FOREST PRODUCTS ASSOCIATION AND THE WESTERN WESTERN WOOD PRODUCTS ASSOCIATION AS FOLLOWS:

STRUCTURAL 2x JOIST AND FRAMING STUDS SHALL BE HEM-FIR #1 Fb = 975 PSI Fcperp = 405 PSI Fc = 1350 PSI Fv = 150 PSI

- CONNECTORS SHOWN ON THE DRAWINGS ARE MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY. ANY CONNECTORS BY OTHER MANUFACTURER'S WILL BE DEEMED EQUIVALENT IF THEIR RATED CAPACITY IS AT LEAST EQUAL TO THAT OF THE CONNECTOR SPECIFIED. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.

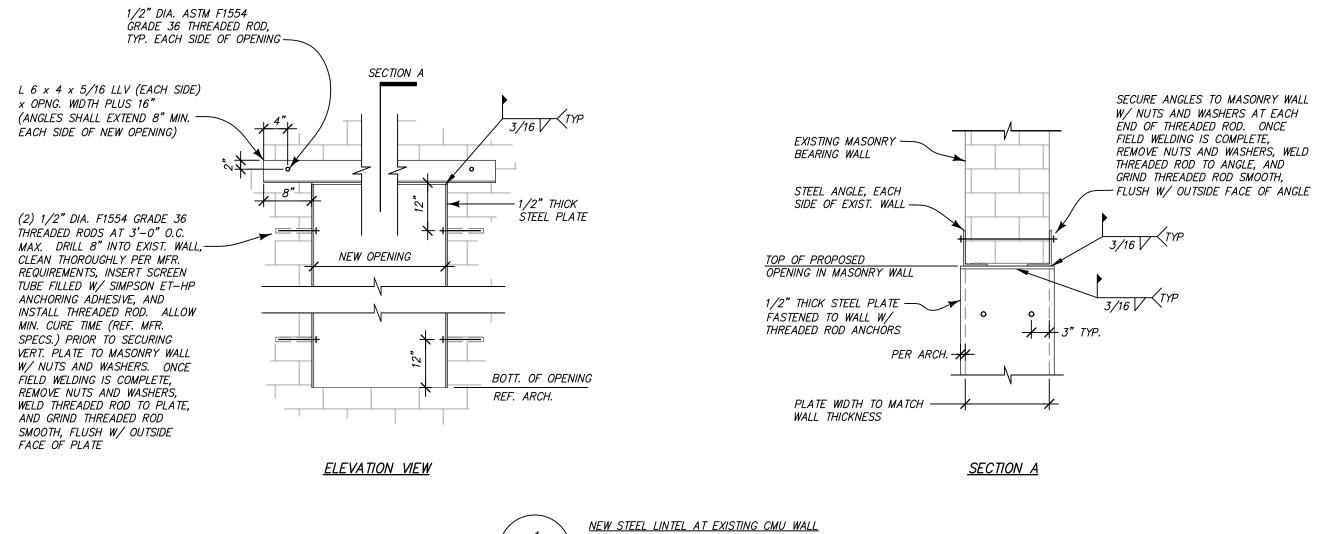
– TJI FLOOR JOISTS

WOOD I MANUFACTURED FLOOR JOISTS ARE SPECIFIED AS TJI ON PLANS. HANDLING, STORAGE AND ERECTION OF THIS TRUS JOIST PRODUCT SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. - MICROLLAM LUMBER BEAMS

- VERTICALLY LAMINATED VENEER HEADERS AND BEAMS SHOWN ON THE DRAWINGS AS "ML" ARE 1 3/4" THICK AS MANUFACTURED BY THE TRUS JOIST CORPORATION OF BOISE, IDAHO. ML BEAMS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. MULTIPLE MEMBERS SHALL BE FASTENED TOGETHER AS PER THE MANUFACTURER'S RECOMMENDATIONS. MICROLLAM BEAMS SHALL NOT BE USED WHERE EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH EARTH.
- Fb = 2600 PSI Fv = 285 PSI E = 2,000,000 PSI
- 6. MANUFACTURED WOOD PRODUCTS - PLYWOOD (OR O.S.B.) SHEATHING
- A. PLYWOOD (OR O.S.B.) FOR ROOFS. FLOORS AND SHEAR WALL SHEATHING SHALL BE APA GRADE TRADEMARKED CDX WITH EXTERIOR GLUE. LAY UP PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND STAGGER JOINTS. ALL NAILING TO BE COMMON NAIL, RING SHANKED FOR FLOOR AND ROOF SHEATHING. ALL FLOOR SHEATHING TO BE GLUED AND NAILED. REFER TO TABLE BELOW FOR USE REQUIREMENTS:

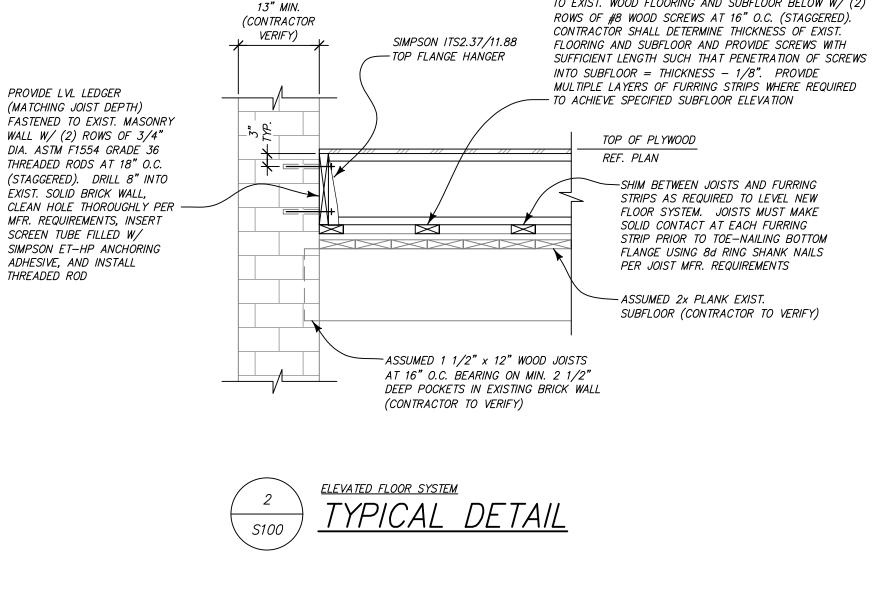
<u>APPLICATION</u>	DECK	SPAN	EDGE	FIELD
	<u>THICK.</u>	<u>RATING</u>	<u>NAILING</u>	<u>NAILING</u>
<u>FLOOR</u>	3/4" T&G	48/24	8d @ 6" O.C.	8d @ 12" O.C.

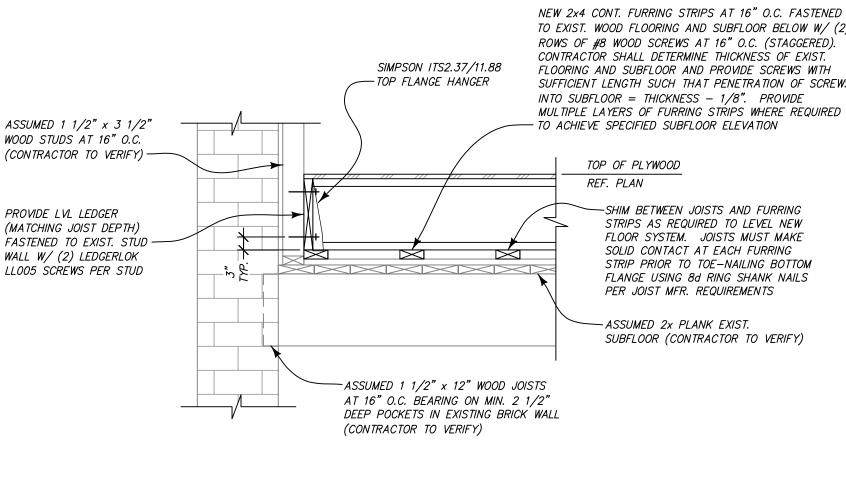
- B. ALL EDGES OF SHEAR WALL SHEATHING SHALL BE BLOCKED. PARTICLE SHEATHING MAY BE USED AS AN ALTERNATIVE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER AND ARCHITECT. PARTICLE BOARD SHEATHING SHALL COMPLY WITH ADOPTED BUILDING CODE AND SHALL HAVE A SPAN RATING EQUAL TO OR BETTER THAN THE PLYWOOD IT REPLACES.
- C. A WATERPROOF BARRIER SHALL BE PROVIDED BETWEEN FLOOR SHEATHING AND ANY POURED CONCRETE FLOOR TOPPING.
- D. WALL SHEATHING SHALL BE ATTACHED TO VERTICAL STEEL STUDS WITH SCREWS OF A DIAMETER AND LENGTH REQUIRED TO EQUAL THE NAILING PATTERN LISTED ABOVE.
- 7. STEEL FRAMING
- STRUCTURAL WIDE FLANGE STEEL SHAPES SHALL CONFORM TO ASTM A992 (50 KSI), PIPE COLUMNS SHALL CONFORM TO ASTM A53, GRADE B, STRUCTURAL TUBES TO ASTM A500, GRADE B, AND OTHER SHAPES, BARS AND PLATES SHALL CONFORM TO ASTM A36.
- STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH THE 15TH EDITION OF AISC MANUAL OF STEEL CONSTRUCTION AND CODE OF STANDARD PRACTICE.
- USE STANDARD FRAMED BEAM CONNECTIONS WITH 3/4" DIAMETER A325 HIGH STRENGTH BOITS OR WEIDED EQUIVALENT UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT A MINIMUM 55% OF THE TOTAL LOAD CAPACITY FOR EACH GIVEN BEAM AND SPAN. THE EFFECT OF ANY CONCENTRATED LOADS SHALL ALSO BE CONSIDERED.
- CONNECTIONS MADE WITH HIGH STRENGTH STEEL BOLTS SHALL CONFORM IN ALL RESPECTS TO THE CURRENT SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS AS ENDORSED BY THE AISC. NO PAINT SHALL APPEAR ON CONTACT SURFACE. USE LOAD INDICATOR WASHERS OR LEJEUNE TYPE BOLTS.
- WELDED CONNECTIONS SHALL CONFORM TO THE LATEST EDITION OF THE "STRUCTURAL WELDING CODE - STEEL (ANSI/AWS D1.1) OF THE AMERICAN WELDING
- ALL FIELD WELDERS SHALL HAVE EVIDENCE OF PASSING THE A.W.S. STANDARD QUALIFICATION TESTS.
- THE CONTRACTOR SHALL REVIEW SHOP AND FIELD WELD REQUIREMENTS FOR COMPATIBILITY WITH THE CONSTRUCTION SEQUENCE. PROPOSED REVISIONS TO WELDS SHALL BE INDICATED BY THE CONTRACTOR ON SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL.
- ALL STEEL SHOP DRAWINGS SHALL BE ACCOMPANIED BY DESIGN CALCULATIONS FOR ANY CONNECTIONS NOT SPECIFIED ON THE STRUCTURAL DRAWINGS CALCULATIONS SHALL CARRY THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER. ANY SHOP DRAWINGS CONTAINING CONNECTIONS FOR WHICH DESIGN CALCULATIONS HAVE NOT BEEN RECEIVED WILL BE RETURNED AS AN INCOMPLETE SUBMITTAL.
- REFER TO ARCHITECTURAL DRAWINGS FOR NAILER HOLES.
- TEMPORARY CONSTRUCTION BRACING OF THE STRUCTURAL STEEL FRAME SHOULD REMAIN IN PLACE UNTIL THE ROOF DEAD LOAD HAS BEEN APPLIED.





<u>NOTE</u> :
PROVIDE USS WASHERS AT ALL
PROVIDE USS WASHERS AT ALL BOLTED CONNECTIONS, TYP.







NEW 2x4 CONT. FURRING STRIPS AT 16" O.C. FASTENED TO EXIST. WOOD FLOORING AND SUBFLOOR BELOW W/ (2)

> -SHIM BETWEEN JOISTS AND FURRING STRIPS AS REQUIRED TO LEVEL NEW FLOOR SYSTEM. JOISTS MUST MAKE STRIP PRIOR TO TOE-NAILING BOTTOM FLANGE USING 8d RING SHANK NAILS

SUBFLOOR (CONTRACTOR TO VERIFY)

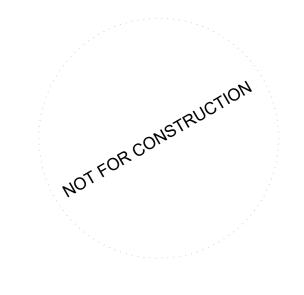
TO EXIST. WOOD FLOORING AND SUBFLOOR BELOW W/ (2) ROWS OF #8 WOOD SCREWS AT 16" O.C. (STAGGERED). CONTRACTOR SHALL DETERMINE THICKNESS OF EXIST. FLOORING AND SUBFLOOR AND PROVIDE SCREWS WITH SUFFICIENT LENGTH SUCH THAT PENETRATION OF SCREWS MULTIPLE LAYERS OF FURRING STRIPS WHERE REQUIRED

-SHIM BETWEEN JOISTS AND FURRING STRIPS AS REQUIRED TO LEVEL NEW FLOOR SYSTEM. JOISTS MUST MAKE SOLID CONTACT AT EACH FURRING STRIP PRIOR TO TOE-NAILING BOTTOM FLANGE USING 8d RING SHANK NAILS PER JOIST MFR. REQUIREMENTS

SUBFLOOR (CONTRACTOR TO VERIFY)



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FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

STRUCTURAL **FRAMING DETAILS**

NO:

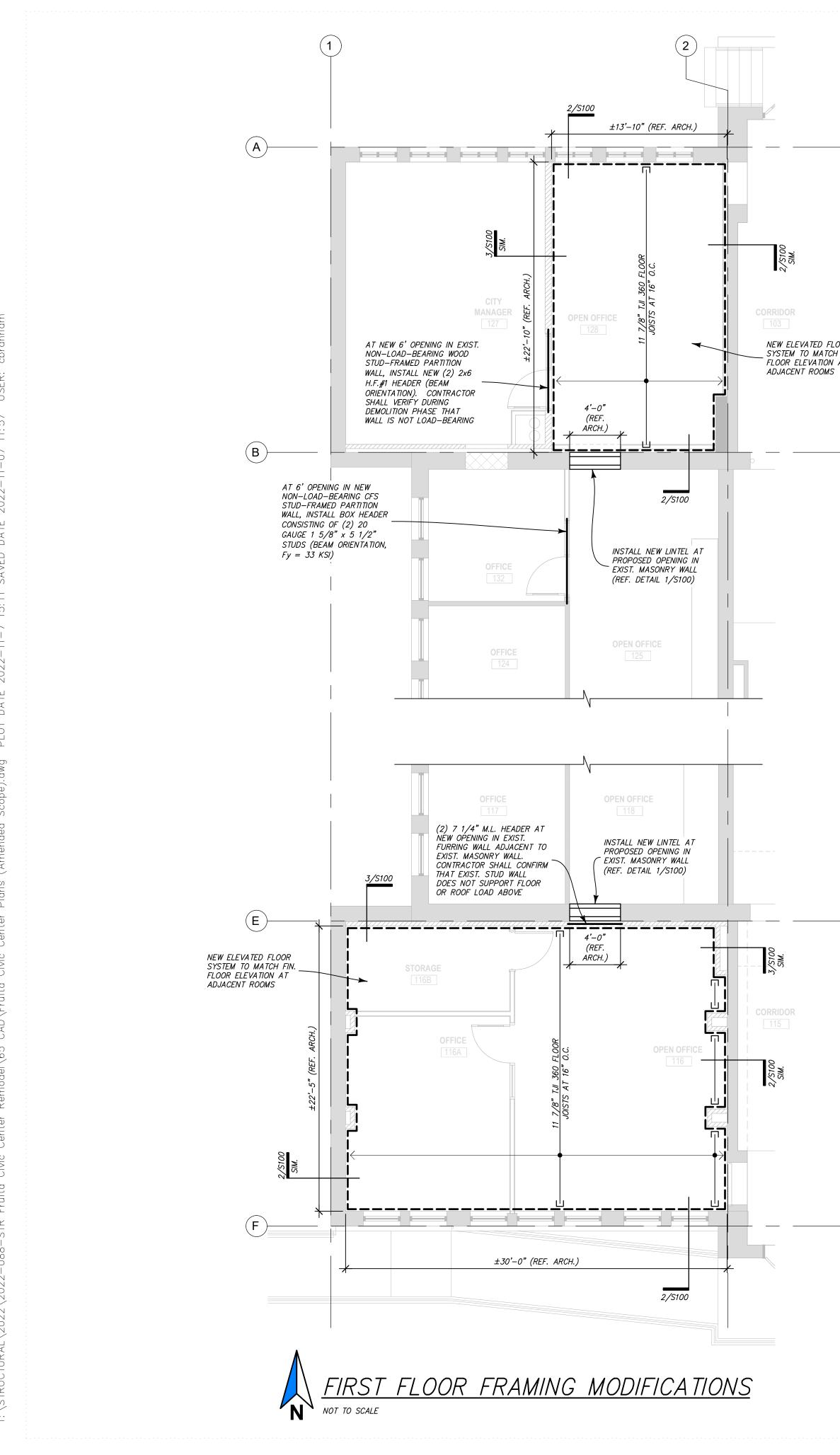


PROJECT STATUS: 100% CONSTRUCTION DOCUMENTS

DATE: 11/07/2022

SHEET NO:





NEW ELEVATED FLOOR SYSTEM TO MATCH FIN. FLOOR ELEVATION AT

STRUCTURAL NOTES:

- BUCKHORN ENGINEERING DID NOT PERFORM AN ASSESSMENT OF THE BUILDING FOUNDATION, LOAD-BEARING MASONRY WALLS, FLOOR JOISTS, ROOF TRUSSES, OR ANY OTHER COMPONENT OF THE EXISTING STRUCTURE. THE SCOPE OF THIS PROJECT IS LIMITED TO THE SPECIFIC IMPROVEMENTS INDICATED HEREON.
- THE FIRST FLOOR REMODEL IS CONSIDERED A LEVEL 2 ALTERATION BASED ON THE CURRENT INTERNATIONAL EXISTING BUILDING CODE.
- THERE ARE NO PLANNED ALTERATIONS TO THE UPPER LEVEL OR ROOF FRAMING AS PART OF THIS SCOPE OF WORK.

FOUNDATION / FRAMING PLAN NOTES:

- 1. REFER TO SHT. S100 FOR GENERAL NOTES.
- 2. REFER TO SHT. S100 FOR TYPICAL DETAILS NOT NOTED ON PLAN.
- 3. ALL ELEVATIONS INDICATED ON PLAN ARE BASED UPON AN ASSUMED DATUM ELEVATION OF 100'-0". REFER TO ARCHITECTURAL DRAWINGS FOR ACTUAL ELEVATION.
- 4. CONTRACTOR SHALL COORDINATE ALL TOP OF WALL AND BEARING PLATE ELEVATIONS
- WITH ARCHITECTURAL DRAWINGS. 5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF ALL CURBS, LEDGES, POCKETS, OR DEPRESSIONS.
- 6. TOP OF PLYWOOD (OR OSB) FLOOR DECK SHALL BE DETERMINED BY CONTRACTOR BASED ON FINISHED FLOOR ELEVATION OF ADJACENT ROOMS THAT WILL REMAIN UNCHANGED.
- 7. FLOOR DECK SHALL BE 3/4" T&G O.S.B. GLUED AND NAILED TO FRAMING MEMBERS PER CODE REQUIREMENTS.
- 8. COLUMNS ARE LOCATED ON WALL CENTERLINES UNLESS DIMENSIONED OTHERWISE ON PLAN OR DETAILS. (COORD. WITH ARCH'L DRAWINGS)
- BRIDGING, BLOCKING, AND ANY ADDITIONAL ACCESSORIES REQUIRED BY MANUFACTURER. 10. COORDINATE SIZE AND LOCATION OF OPNGS. IN FRAMING WITH ARCHITECTURAL AND

<u>NOTE:</u> CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS INDICATED ON THESE DRAWINGS AND NOTIFY THE ENGINEER IN THE EVENT OF A DISCREPANCY PRIOR TO FABRICATION AND CONSTRUCTION. ENGINEER SHALL ALSO BE NOTIFIED TO PERFORM A SITE VISIT ONCE EXISTING CONDITIONS ARE EXPOSED AT LOCATIONS OF NEW STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS.

NOTE: STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE BASED ON LOADING CONDITIONS SPECIFIED IN THE GENERAL NOTES, SHEET S100. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNEXPECTED LOADING CONDITIONS THAT WERE NOT ANTICIPATED IN THE DESIGN.

9. FRAMING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS.



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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

1ST FLOOR STRUCTURAL **MODIFICATIONS**

NO:

ISSUED FOR:

DATE:

PROJECT STATUS: **100% CONSTRUCTION DOCUMENTS**

DATE: 11/07/2022

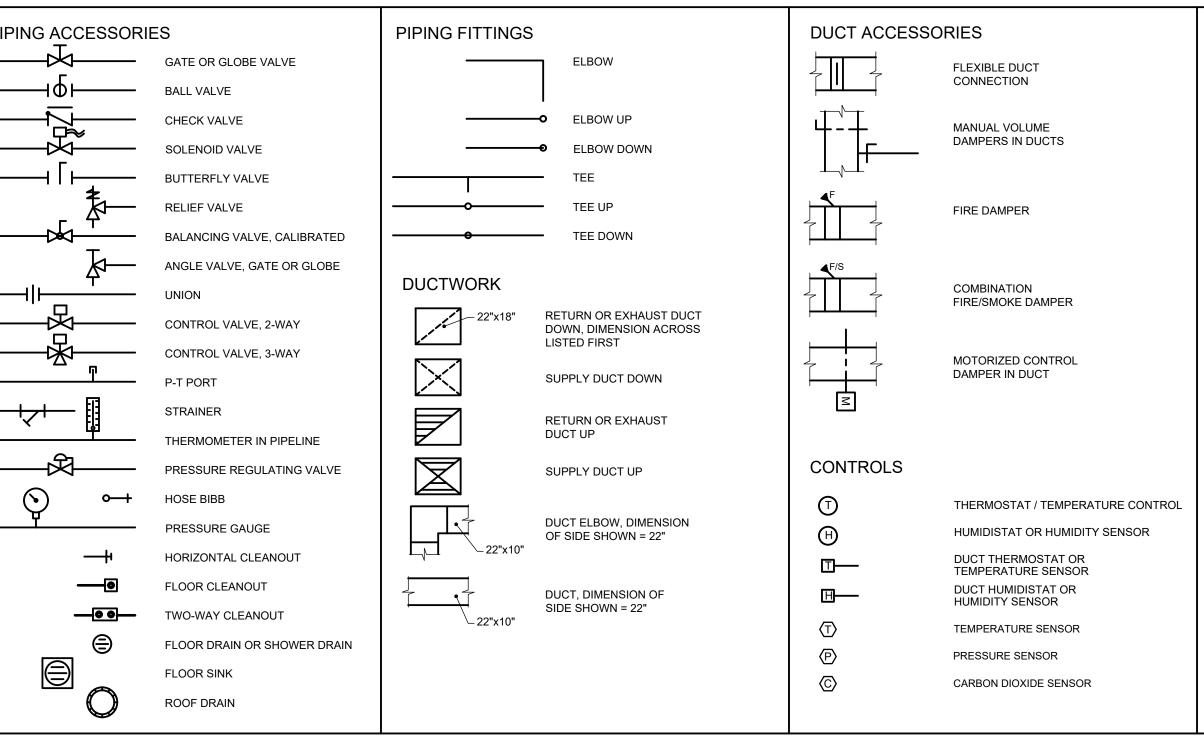
SHEET NO:



AFF	ABOVE FINISHED FLOOR		CHILLED WATER RETURN
AFG	ABOVE FINISHED GRADE	0///	CHILLED WATER RETORN
BDD	BACK DRAFT DAMPER	CWS	CHILLED WATER SUPPLY
BFG	BELOW FINISHED GRADE		
CD	CONDENSATE DRAIN		COLD WATER
CFM COTG	CUBIC FEET PER MINUTE CLEANOUT TO GRADE	21	
CV	CIRCUIT VENT	CA	COMPRESSED AIR
CW	COLD WATER		HOT WATER - DOMESTIC
DB	DRY BULB TEMPERATURE		
EA	EXHAUST AIR	 11	10 — HOT WATER - DOMESTIC,
EAT			TEMPERATURE SHOWN
EWT FCO	ENTERING WATER TEMPERATURE FLOOR CLEANOUT		HOT WATER CIRCULATING -
°F	DEGREES FAHRENHEIT		DOMESTIC
FF	FINISHED FLOOR		
GC	GENERAL CONTRACTOR	HWR	HEATING WATER RETURN
HW	HOT WATER - DOMESTIC		
HWC	HOT WATER CIRCULATING - DOMESTIC	———— HWS———	HEATING WATER SUPPLY
HWR HWS	HOT WATER RETURN HOT WATER SUPPLY	G	—— NATURAL GAS
LB	POUNDS (WEIGHT)	6	
MC	MECHANICAL CONTRACTOR	NO	NITROUS OXIDE
NIC	NOT IN CONTRACT		
NK	NECK (DUCT CONNECTION)	0	OXYGEN
NTS	NOT TO SCALE		
OBD PC	OPPOSED BLADE DAMPER PLUMBING CONTRACTOR		OVERFLOW ROOF DRAIN FIFING
RA	RETURN AIR	RDL	ROOF DRAIN PIPING
RDL	ROOF DRAIN LEADER		
RE:	REFER TO		REFRIGERATION LIQUID
SA	SUPPLY AIR		
SDL		R5	REFRIGERATION SUCTION
SS SWR	SANITARY SEWER SNOWMELT WATER RETURN	ss	SANITARY SEWER
SWS	SNOWMELT WATER SUPPLY		
TYP	TYPICAL		SANITARY VENT
UNO	UNLESS NOTED OTHERWISE		
V	VENT	SWR	SNOWMELT RETURN
VTR	VENT THROUGH ROOF		SNOWMELT SUPPLY
WCO W	WALL CLEANOUT WASTE		
WB	WET BULB TEMPERATURE	V	VACUUM
		<u> </u>	WASTE

•

	ORIELS, REDISTERS AND DIT USERS SCHEDOLE								
TAG	SERVICE	ТҮРЕ	MOUNTING	THROW PATTERN	FINISH	ACCESSORIES	KRUEGER SERIES #	SIZE	NOTES
SA-1	SUPPLY AIR	DIFFUSER, ROUND NECK, SINGLE FACEPLATE	CEILING, T-BAR	4-WAY	BRITISH WHITE	-	PLQ-23	AS NOTED ON PLANS	STEEL
SA-2	SUPPLY AIR	SUPPLY DIFFUSER, RECTANGULAR NECK	CEILING, T-BAR	1-WAY	BRITISH WHITE	-	SHPC-F23	AS NOTED ON PLANS	STEEL, ADJUSTABLE VERTICAL THROW
RA-1	RETURN AIR	GRILLE, 1/2" CUBE CORE	CEILING, T-BAR, FRAMED	N/A	BRITISH WHITE	-	EG5-FTB	AS NOTED ON PLANS	ALUMINUM

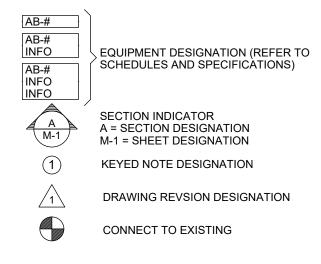


GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

MECHANICAL LEGEND

GRILLES, REGISTERS, AND DIFFUSERS							
RA-1 12"x18"	SIDEWALL RETURN OR EXHAUST GRILLE RA-1 (OR EA-1), 12"Wx8"H						
SA-1	SIDEWALL SUPPLY GRILLE						
12"x8"	OR REGISTER SA-1,						
225 CFM	12"Wx8"H, 225 CFM						
RA-1	CEILING RETURN GRILLE						
12"x18"	OR REGISTER RA-1, 12"x8"						
SA-1	CEILING SUPPLY DIFFUSER,						
24"x24"	GRILLE, OR REGISTER SA-1,						
225 CFM	24"x24", 225 CFM						
EA-1	CEILING EXHAUST GRILLE						
12"x8"	OR REGISTER EA-1, 12"x8",						
200 CFM	200 CFM						

GENERAL SYMBOLS





437 Main Street Grand Junction, CO 81501 970.242.6804 chamberlinarchitects.com



FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

MECHANICAL LEGEND AND SCHEDULES

NO:

DATE:



ISSUED FOR:

 Δ PROJECT STATUS:
CONSTRUCTION DOCUMENTS

DATE: **11/07/2022**

SHEET NO:



1 Mathematical State Sta	SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC	SECTION 230700 - HVAC INSULATION	SECTION 233100 - HVAC DUCTS AND CASINGS	SECTION 233300 - AIR DUCT AG
 Montani and an and and	PART 1 - GENERAL	PART 1 - GENERAL	PART 1 - GENERAL	PART 1 - GENERAL
 A Latitude A Latitude	1 SUMMARY	11 SUMMARY	1.1 SUMMARY	1.1 SUMMARY
 Handbard Laboration Control Contr			A. Section Includes:	A. Section Includes:
 Partial State Sta			1. Duct materials.	1. Combination fire-a
Auto AAA whore shallImage: A market of the shallImage: A market of the shall of the		1.2 SURMITTALS		 Duct access doors. Volume control dam
 A Jone Maria A Maria Maria A Maria Maria A Maria Maria Maria A Maria Maria Maria Maria Maria Maria A Maria Maria Maria Maria Maria A Maria Maria Maria Maria A Maria Maria A Maria	SUBMITTALS		4. Duct cleaning.	1.2 SUBMITTALS
Martin Hand Martin Hand Independence of the formation of the formatio of the formation of the formatio of the formation of the format			1.2 SUBMITTALS	A. Source Quality-Control Su
 A. Angelene ender and angelene ender ender		PART 2 - PRODUCTS	A. Source Quality-Control Submittals: Required.	
 A Barthon Marken Control Control		2.1 DUCTWORK INSULATION	PART 2 - PRODUCTS	
 Lot. and a starting and angle sets: J. Setting and a starting a		A. Flexible Glass Fiber: ASTM C553; flexible, noncombustible blanket.		A. Furnish five-year manufac
 National and and a state of the sta				PART 2 - PRODUCTS
 More and a set of the se	APT 2 DRODUCTS			
NM USE Construction of the second state of the	.1 2 - FRODUC15	B. Duct Liner: ASTM C1071, Type I, flexible, glass fiber duct liner with coated air side.		2.1 DAMPERSA. Combination Fire and Smo
 Note that is a standard of the standa	Not Used.		B. Galvanized-Steel Ducts:	A. Combination File and Since 1. Fabricate according 2. Fire Resistance: 1-1/2
 Landrage data and spectral spectra spectra spectral spectral spectral spectral spect	RT 3 - EXECUTION	3. Maximum Air Velocity on Coated Air Side: 6,000 ft/min.		3. Leakage Rating: Cla
a. J. J. Charlenge Barge and Barge				 Damper Temperatur Frame: 20 gage, galv
 A constraint of the state s	INSTALLATION TOLERANCES	PART 3 - EXECUTION	C. Hanger Rod:	6. Blades:
 ACKANTENDENCE WITH SECTORS ACKANTENDENCE WITH SECTORS			1. Material: Galvanized steel, ASTM A36.	a. Style: Single b. Orientation: F
 A data is a dia dia dia dia dia dia dia dia dia d		3.1 INSTALLATION	2.2 INSULATED FLEXIBLE DUCTS	c. Material: Min 7. Bearings: Stainless
 A strain strain data is the strain data. A strain strain data is the strain strain	AIR SYSTEM PROCEDURE		A. Description:	8. Seals: Silicone blade 9. Linkage: Jackshaft t
 International and a state of a state state of a state				10. Release Device: Clo 11. Actuator:
SPRIDERS 1. In time of a money, is any proper base state of a money to money proper base st	B. Measure air quantities at air inlets and outlets.	C. External Ductwork Insulation:	2. Insulation: Fiberglass.	a. Type: Electric
 Marken of Argenetic Arg	SCHEDULES			b. Mounting: Ex
NOT STUDIO 1983 DOT S		2. Continue insulation through walls, sleeves, hangers, and other duct penetrations.		12. Link Release Tempe 13. Finish: Mill galvaniz
JUNIXIUN 2007 1 Locality Local	1. Air Inlets and Outlets.	•		14. Factory installed sle 15. Manufacturer and m
 A. Source and and and and and and and and and and	ID OF SECTION 230593	D. Duct Liner:		
 bernard in target in the order in the order in target. b. Structure in target in the interface in target in the order interface. c. Structure in target in the order interface in the order interface in the order interface interface		1. Adhere insulation with adhesive for 100 percent coverage.	B. Round Ducts:	2.2 DUCT ACCESS DOORS
 b. b. dimension because the reduit finameniane boxes increase that dimension boxes are the dimension boxes in the dimension boxes increase that dimension boxes in the dimension boxes in t		Construction Standards - Metal and Flexible for spacing.		A. Fabricate according to SM
 S. SUEDULAS 		4. Duct dimensions indicated are sheet metal dimensions. Do not increase duct dimensions		B. Fabrication: Rigid and close locking devices. For insul
 konst barrenses konst barren		to accommodate duct liner.	C. Divergence:	metal cover. 1. Sandwich-style.
 A. Bord Discission B. Schaff Behrinsen Lindingen Disclass in toch or gener B. Schaff Behrinsen Lindingen Disclass in toch or gener B. Schaff Behrinsen Lindingen Disclass in toch or gener Heit 19 Jon Tich. 2007BC Heit 20 Jon		3.2 SCHEDULES		 Three layers of galv Encapsulated fibergi
B. Retension Decision DED OF SECTION 20000 C. Saling Management and Comparison D. Saling Management and Comparison </td <td></td> <td></td> <td></td> <td> Closed cell neopren Zinc plated conical sector </td>				 Closed cell neopren Zinc plated conical sector
i Der Lame, Thackaes Land Obter set und werde. 2.1 DND.OG N°CCTION 200700 I Set grants between dust underson all dats terms with welds, gabbars, made all sterms with w				 Polypropylene mold Zinc plated carriage
NN OF SPECTION 23/2300 I Sol joint jamous de verbour out de verbour de verbour de verbour de verbour de verbou			• •	8. Manufacturer: Duct
 Is a joint breven dire station and due to station, with welks, graders, and are addicaves. Is a grader due direct station and due to station. Is a grader due direct station and due to station. ACCENNENTE: ACCENNENTE: Ingers and Superit: Ingers and Superit: Ingers and Rule Superit: Ingers Rule Superit: Ing		END OF SECTION 230700	E. Sealing:	2.3 VOLUME CONTROL DA
 Solitis, Maria, and Taye UL 181A Solitis, Maria, and Solitis, Constant and Solit				A. According to SMACNA H
A Reger and Supports: Calorians-ploted steel rods and nuits. A Reger and Supports: Sing and Rod Sizes A Supports for fail-anniases-Stael Dacts. Calorians-ploted steel rods and nuits. A Supports for Calorianses-Stael Dacts. Calorianses-Stael Da				B. Quadrants: Furnish locking
 Hargers and Supports: Hargers Rod State Noncorreality Environments: Caldmiture-plated steel rode and inter. Strang and States. Strang and Strang. Strang and			2.4 ACCESSORIES	DADT 2 EVECUTION
 STAC VA. 1666. SMACVA. 1666. Smart Supports for Galvanized-Steel Ducts: Galvanized-steel shapes and plates Supports for Galvanized-Steel Ducts: Galvanized-steel shapes and plates Smart 3 - EXFCUTION INSTALLATION INSTALLATION Instal and sum jours with or without bead or beaded steeve couplings for joining round duct areas Landers and Supports: INSTALLATION Instal and Supports: INSTALLATION <			A. Hangers and Supports:	PART 3 - EXECUTION
A SMACNA 1060 Trapez and Riser Supports: Supports for Galvanazed-Steel Dates: Galvanazed-Steel Shapes and plates: Supports for Galvanazed-Steel Dates: Galvanazed-Steel Shapes and plates: PART 3 - EXECUTION A Instal LATION A Instal Lation A Instal and seel ducts according to SMACNA 1966. B Its: entrop joints with or without baad or beaded sleeve onuplings for joining round duct sizes 1 SMACNA 1966. ENDOU: SUCCION: 2010/0 ENDOU: SUCCION: 2010/0 SUCCION: 2010/0 S				3.1 INSTALLATION
A represent Alsker Supports: B A Supports for Galvanized-steed Shapes and plates: B A Supports for Galvanized-steed Shapes and plates: C A Supports for Galvanized-steed Shapes and plates: C A Support for Galvanized-steed Shapes and Supports: C A Support for Galvanized Shapes and Support for Galvanized Sha				A. Install according to NFPA Metal and Flexible. Confo
a Supports for Galvanized-Sicel Ducts: Galvanized-Sicel Steel Stee				
PART 3 - EXECUTION				1. Before or after each
 3.1 INSTALLATION A Install and seal ducts according to SMACNA 1966. D. Use crimp joints with or without bead or beaded sleeve couplings for joining round duct sizes 12 inches and smaller. C. Hanger and Supports: SMACNA 1966. END OF SECTION 233100 32 A.				C. Access Door Sizes: Install fabrication.
 A. Install and seal ducts according to SMACNA 1966. D. B. Use crimp joints with or without bead or beaded sleeve couplings for joining round duct sizes 12 inches and smaller. C. Hanger and Supports: SMACNA 1966. END OF SECTION 233100 3.2 A. 			PART 3 - EXECUTION	1. Mark access doors
D. B. Use crimp joints with or without bead or beaded sleeve couplings for joining round duet sizes 12 inches and smaller. C. Hanger and Supports: 1. SMACNA 1966. END OF SECTION 233100 3.2 A.			3.1 INSTALLATION	inch high letters ro DAMPER.
12 inches and smaller. C. Hanger and Supports: 1. SMACNA 1966. END OF SECTION 233100 3.2 A.			A. Install and seal ducts according to SMACNA 1966.	D. Install combination fire a
C. Hanger and Supports: 1. SMACNA 1966. END OF SECTION 233100 3.2 A.				perimeter mounting angle bearings, bushings and him
1. SMACNA 1966. END OF SECTION 233100 3.2 A.				1. Install combination
END OF SECTION 233100 3.2 A.				 Install dampers squa Do not compress or
3.2 A.				4. Handle damper usin shaft.
Α.			END OF SECTION 233100	
END OF				A. Demonstrate re-setting of f
				END OF SECTION 233300

DUCT ACCESSORIES

tion fire-and-smoke dampers. ess doors. control dampers.

Control Submittals: Required.

r manufacturer's warranty for duct accessories.

e and Smoke Dampers: according to NFPA 90A, UL 555, and UL 555S. stance: 1-1/2 hours. Rating: Class I, maximum of 8 cfm at 4 inches w.g. differential pressure. Femperature Rating: 250 degrees F. 0 gage, galvanized steel.

yle: Single skin, round, two piece. ientation: Horizontal. aterial: Minimum 14 gage equivalent thickness, galvanized steel.

Stainless steel pressed into frame. licone blade edge seals. Jackshaft to blade. Device: Close in controlled manner and allow damper to be automatically reset.

pe: Electric 24 volt, 60 Hz, two-position, fail close.

ounting: External. ease Temperature: 165 degrees F. fill galvanized.

nstalled sleeve and frame. turer and model: Ruskin FSDR25 or equivalent.

S DOORS

ding to SMACNA HVAC Duct Construction Standards - Metal and Flexible.

d and close fitting of galvanized steel with sealing gaskets and quick fastening 5. For insulated ductwork, furnish minimum 1 inch thick insulation with sheet

vers of galvanized steel sheet metal.

ated fiberglass insulation. neoprene gasket bonded to inside panel, rated for -20°F to 200°F.

ed conical springs. ylene molded knobs with threaded metal inserts.

ed carriage bolts.

turer: Ductmate or equivalent.

TROL DAMPERS

MACNA HVAC Duct Construction Standards - Metal and Flexible.

nish locking, indicating quadrant regulators.

g to NFPA 90A, and follow SMACNA HVAC Duct Construction Standards ble. Conform to Section 233100 for duct construction and pressure class.

nstall access doors at following locations and as indicated: after each combination fire and smoke damper.

zes: Install minimum 8 x 8 inch size for hand access. Review locations prior to

cess doors for fire and smoke dampers on outside surface, with minimum 1/2 th letters reading: FIRE/SMOKE DAMPER, SMOKE DAMPER, OR FIRE

tion fire and smoke dampers at locations as indicated. Install with required nting angles, sleeves, breakaway duct connections, corrosion resistant springs, ngs and hinges.

mbination smoke and fire dampers according to NFPA 92A. mpers square and free from racking with blades running horizontally. ompress or stretch damper frame into duct or opening.

amper using sleeve or frame. Do not lift damper using blades, actuator, or jack

ΓΙΟΝ

setting of fire dampers to Owner's representative.



chamberlin

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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

MECHANICAL **SPECIFICATIONS**

NO: Δ

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ISSUED FOR:

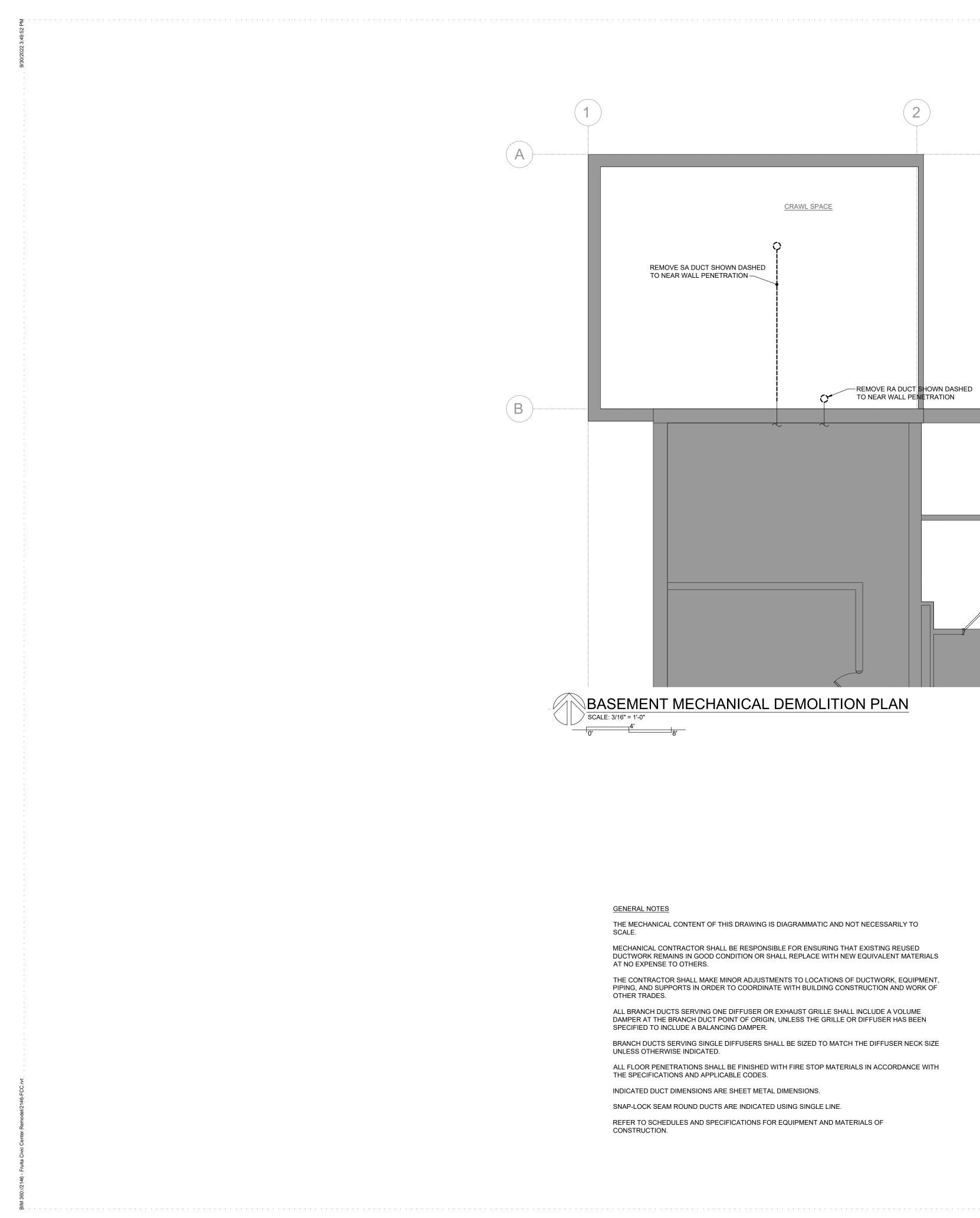
DATE:

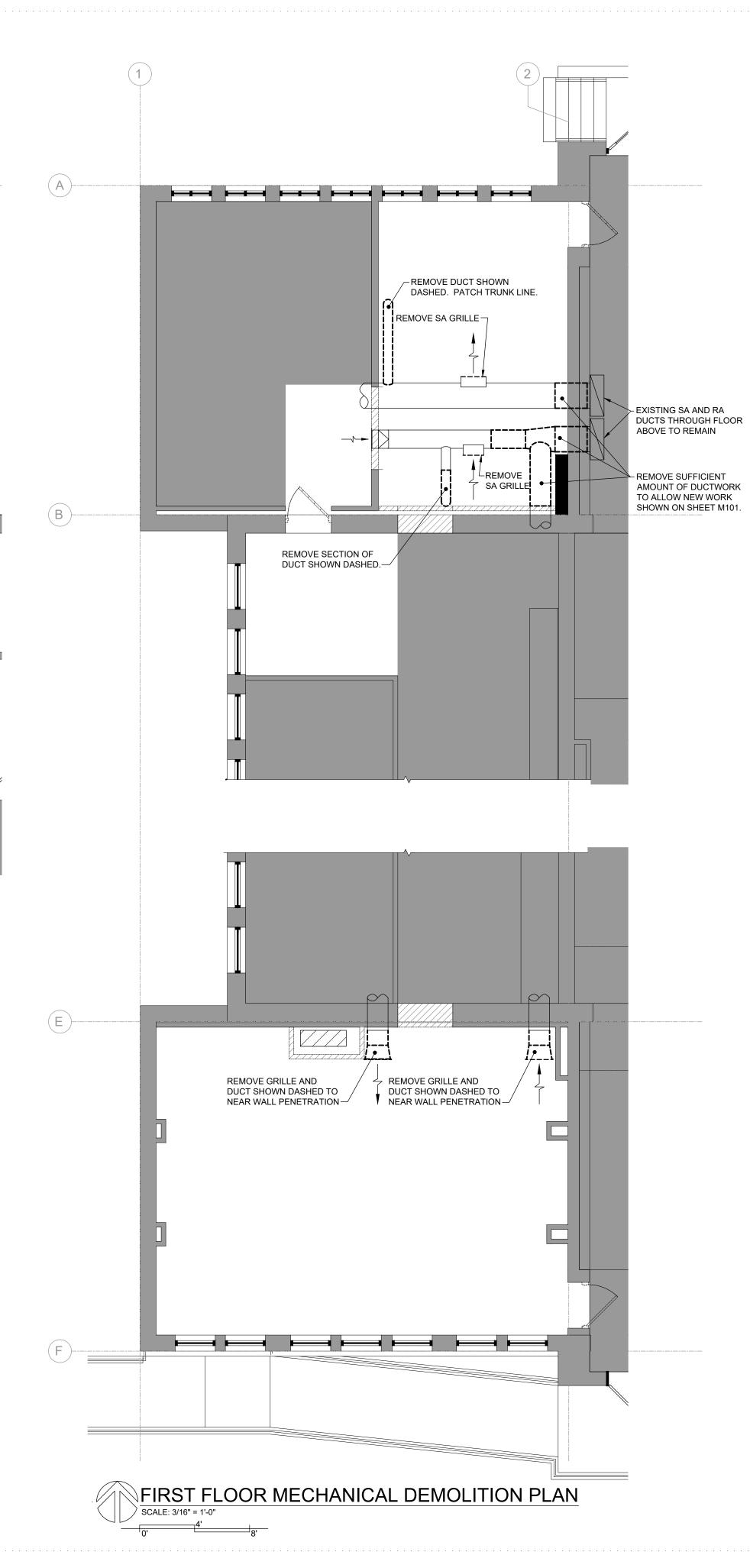
Δ PROJECT STATUS: CONSTRUCTION DOCUMENTS

DATE: 11/07/2022

SHEET NO:











FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

MECHANICAL **DEMOLITION PLANS**

NO:

ISSUED FOR:

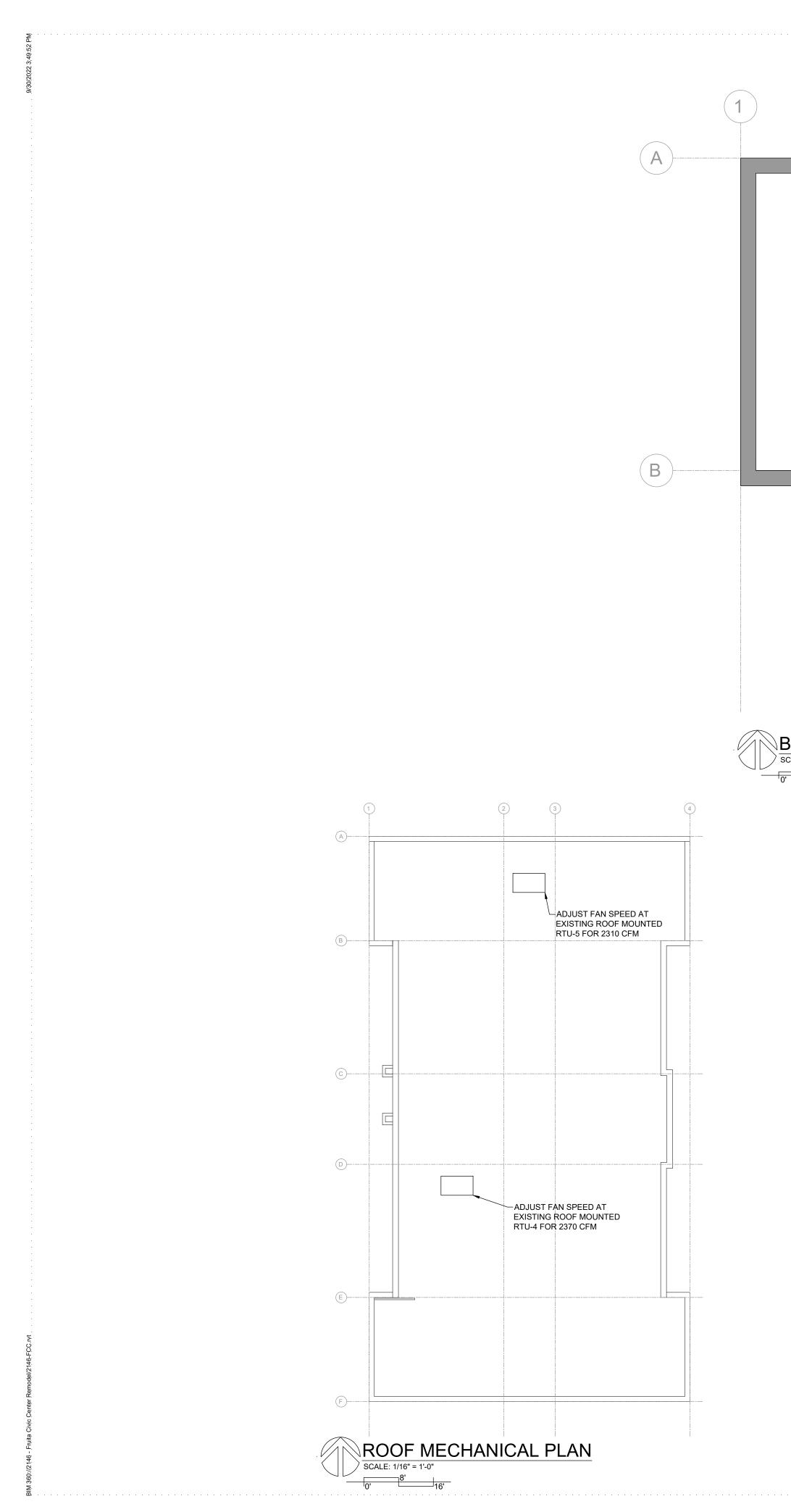
DATE:

PROJECT STATUS: CONSTRUCTION DOCUMENTS

DATE: 11/07/2022

SHEET NO:





2 CRAWL SPACE /- 8"Ø RA FROM ABOVE FLOOR **→** - CONNECT TO EXISTING \sim

CITY MANAGER 12"x5" AT 9'-2" AFF— 8"Ø SA AND RA DOWN IN NEW CHASE. OFFICE 132

BASEMENT MECHANICAL PLAN SCALE: 3/16" = 1'-0"

GENERAL NOTES

THE MECHANICAL CONTENT OF THIS DRAWING IS DIAGRAMMATIC AND NOT NECESSARILY TO SCALE.

MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EXISTING REUSED DUCTWORK REMAINS IN GOOD CONDITION OR SHALL REPLACE WITH NEW EQUIVALENT MATERIALS AT NO EXPENSE TO OTHERS.

THE CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO LOCATIONS OF DUCTWORK, EQUIPMENT, PIPING, AND SUPPORTS IN ORDER TO COORDINATE WITH BUILDING CONSTRUCTION AND WORK OF OTHER TRADES.

ALL BRANCH DUCTS SERVING ONE DIFFUSER OR EXHAUST GRILLE SHALL INCLUDE A VOLUME DAMPER AT THE BRANCH DUCT POINT OF ORIGIN, UNLESS THE GRILLE OR DIFFUSER HAS BEEN SPECIFIED TO INCLUDE A BALANCING DAMPER.

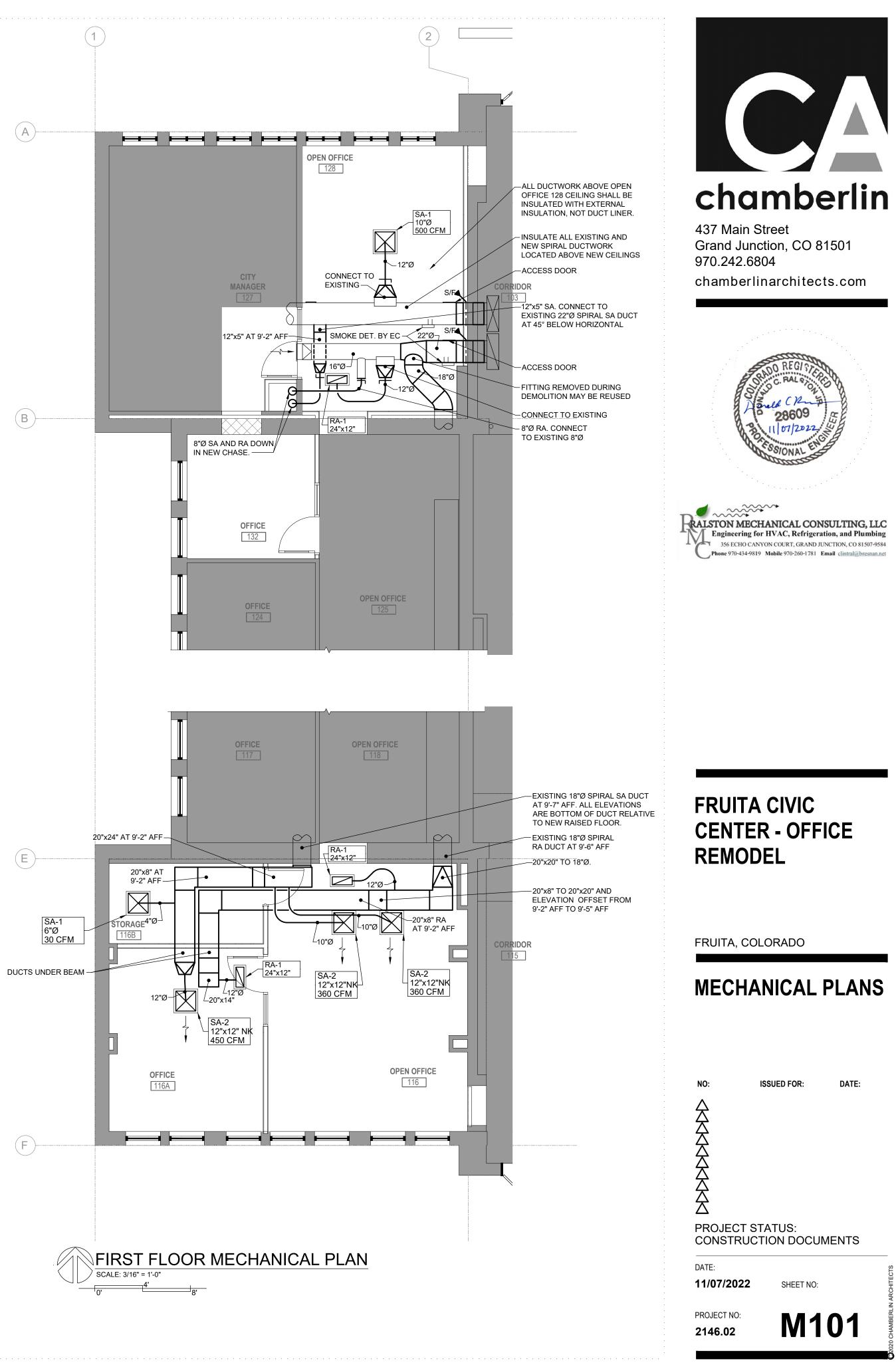
BRANCH DUCTS SERVING SINGLE DIFFUSERS SHALL BE SIZED TO MATCH THE DIFFUSER NECK SIZE UNLESS OTHERWISE INDICATED.

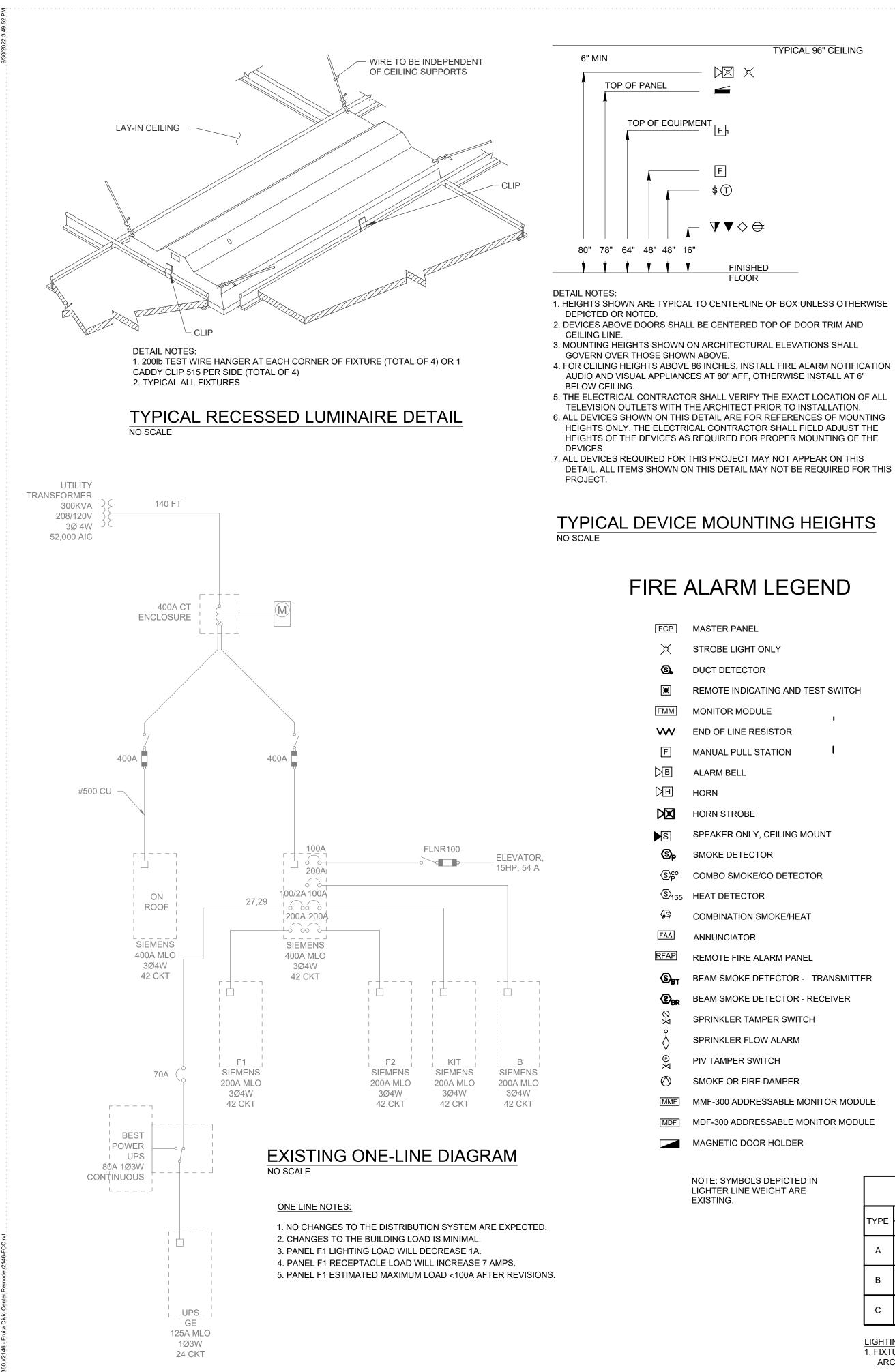
ALL FLOOR PENETRATIONS SHALL BE FINISHED WITH FIRE STOP MATERIALS IN ACCORDANCE WITH APPLICABLE CODES.

INDICATED DUCT DIMENSIONS ARE SHEET METAL DIMENSIONS.

SNAP-LOCK SEAM ROUND DUCTS ARE INDICATED USING SINGLE LINE.

REFER TO SCHEDULES AND SPECIFICATIONS FOR EQUIPMENT AND MATERIALS OF CONSTRUCTION.





TYPICAL 96" CEILING

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1				
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_				

FINISHED FLOOR

FIRE ALARM LEGEND

STROBE LIGHT ONLY

REMOTE INDICATING AND TEST SWITCH

MONITOR MODULE

END OF LINE RESISTOR

MANUAL PULL STATION

SPEAKER ONLY, CEILING MOUNT

COMBO SMOKE/CO DETECTOR

BEAM SMOKE DETECTOR - TRANSMITTER

BEAM SMOKE DETECTOR - RECEIVER

- SPRINKLER TAMPER SWITCH

MMF-300 ADDRESSABLE MONITOR MODULE

MDF-300 ADDRESSABLE MONITOR MODULE

MAGNETIC DOOR HOLDER

NOTE: SYMBOLS DEPICTED IN LIGHTER LINE WEIGHT ARE

ELECTRICAL GENERAL DRAWING NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL, CIVIL, STRUCTURAL, AND MECHANICAL DRAWINGS FOR EXACT DIMENSIONS.
- 2. REFER TO THE ARCHITECTURAL DRAWINGS, ELEVATIONS, DETAILS, AND DIAGRAMS FOR LOCATIONS OF THE FLOOR AND WALL DEVICES. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED PER THE DETAIL ON THIS SHEET.
- 3. COORDINATE ANY AND ALL EQUIPMENT LOCATIONS WITH THE OWNER PRIOR TO ROUGH-IN. COORDINATE ANY AND ALL WIRING DEVICE LOCATIONS WITH THE ARCHITECTURAL ELEVATIONS, CASEWORK, SHOP DRAWINGS, AND EQUIPMENT INSTALLATION DRAWINGS. COORDINATE THE LOCATION OF ANY AND ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL DRAWINGS, MECHANICAL SUBMITTALS, AND THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. COORDINATE THE LOCATION OF ANY AND ALL LUMINAIRES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- 4. ANY AND ALL ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 5. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. ALL CONDUCTORS SHALL BE SIZED PER THE NEC. MINIMUM #12 AWG UNLESS NOTED OTHERWISE. BRANCH CIRCUITS SHOWN AS A SINGLE HOMERUN SHALL NOT BE COMBINED WITH OTHER CIRCUITS.
- 6. COORDINATE LOCATION OF WALL MOUNTED LUMINAIRES WITH ARCHITECT AND/OR OWNER.
- 7. ALL ELECTRICAL WORK SHALL COMPLY WITH LATEST ENFORCED EDITION OF NEC AND ALL APPLICABLE LOCAL CODES. ALL RECEPTACLES WITHIN 6 FEET OF WATER SHALL BE GFCI.
- 8. THE CONTRACTOR SHALL MAINTAIN FIRE-RATINGS FOR ALL CONDUIT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- 9. WHEN NOT SPECIFICALLY DEPICTED, ALL BRANCH CIRCUITS WITH HOME RUNS OVER 50 FEET, SHALL BE SIZED ONE SIZE LARGER.
- 10. VERIFY AND COORDINATE LUMINAIRE MOUNTING REQUIREMENTS PRIOR TO PLACING ORDER. CONTRACTOR SHALL VERIFY PENDANT LENGTH, CEILING HEIGHTS, ADA REQUIREMENTS, AND OTHER FACTORS. CONTRACTOR IS RESPONSIBLE FOR ALL HARDWARE AND EQUIPMENT REQUIRED AND SHALL BEAR ANY AND ALL THE COSTS.
- 11. ELECTRICAL DEVICES PROJECTING FROM THE WALLS WITH THEIR LEADING EDGES BETWEEN 27" AND 80" AFF" SHALL PROTRUDE NO MORE THAN 4" INTO WALKWAYS OR CORRIDORS FOR ADA COMPLIANCE.
- 12. BACK TO BACK MOUNTING OF RECEPTACLES OR COMMUNICATION OUTLETS IS PROHIBITED.
- 13. GFCI DEVICES SHALL BE PROVIDED AS REQUIRED BY THE NEC AND LOCAL REQUIREMENTS.
- 14. ALL BELOW GRADE AND IN CONCRETE RACEWAY SHALL BE GRC OR PVC, ALL RACEWAY OVER 12 INCHES ABOVE GRADE SHALL BE EMT OR GRC. OTHER TYPES PERMITTED AS PERMITTED BY THE AHJ. ALL RACEWAY IN CLASSIFIED AREAS SHALL BE SEALED GRC.
- 15. BEAM SPREAD OF "PAR"AND "MR" LAMPS SHALL BE DETERMINED IN THE FIELD.
- 16. ALL BRANCH CIRCUITS FOR MECHANICAL EQUIPMENT CONDUCTORS SHALL BE COORDINATED.
- 17. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED RACEWAYS FOR SYSTEMS SUBCONTRACTORS AND VENDORS (TELEPHONE, CABLE, TELE/DATA, PAGING, SECURITY, ETC). REVIEW ALL PROJECT DRAWINGS FOR REQUIREMENT OF OTHER TRADES.
- 18. LOCATION OF EXISTING ELECTRICAL SYSTEMS AND UTILITIES ARE NOT DEPICTED ON THESE DRAWINGS. CONTRACTOR SHALL FIELD VERIFY ANY AND ALL EXISTING AND ABANDONED SYSTEMS AND UTILITIES PRIOR TO ANY WORK.
- 19. REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALL PRODUCTS, INSTALLATION PROCESSES, AND WORKMANSHIP SHALL MEET OR EXCEED THE DESIGN AND CONSTRUCTION STANDARDS FOR THIS PROJECT.
- 20. PROVIDE ACCESS PANELS WHERE REQUIRED IN ALL CEILINGS INCLUDING, BUT NOT LIMITED TO FIRE SMOKE DAMPERS, FIRE LIFE SAFETY J-BOXES, FAN COILS AND VAV BOXES PER MANUFACTURER'S WRITTEN RECOMMENDATIONS, CONDUIT BANK PULL BOXES AND CONTROL AND SHUTOFF VALVES.
- 21. INASMUCH AS DESIGN FOR REMODELING AND/OR REHABILITATION REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING OR FACILITIES, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE PROFESSIONAL CONSULTING SERVICES HEREIN ENCOMPASS ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.

CABLING NOTES

- 1. ALL CABLES SHALL BE PLENUM RATED.
- 2. ALL PHONE CABLES SHALL BE CAT5 AND ALL DATA CABLES SHALL BE CAT6E PER OWNER.
- 3. ALL CABLES SHALL BE TERMINATED, LABELED, AND TESTED. PROVIDE OWNER WITH TEST RESULT DOCUMENTS.
- 4. ALL CABLES SHALL BE SECURED TO THE STRUCTURE BY MEANS OF CADDY CAT100CM DOUBLE HOOKS OR EQUAL.
- 5. COIL 6 FEET OF ALL STRUCTURED CABLES ON WALL.
- 6. COORDINATE ROUTING OF CABLES TO WORK STATIONS WITH OTHER CONTRACTORS. MAKE A CONTINUOUS RUN FROM PHONE/DATA JACK TO TERMINATION POINT WITHOUT ADDITIONAL EQUIPMENT.

DEMOLITION NOTES:

- 1. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ANY AND ALL MATERIALS AND EQUIPMENT PRIOR TO BID TO DETERMINE WHAT, IF ANYTHING MAY REMAIN IN PLACE OR BE REUSED. BID SHALL INCLUDE ANY AND ALL EQUIPMENT, MATERIALS, LABOR, ETC AS REQUIRED FOR DEMOLITION AND NEW CONSTRUCTION.
- 2. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF ALL REMOVED MATERIALS AND EQUIPMENT OFF OF THE OWNER'S PROPERTY.
- 3. CARE SHALL BE TAKEN AT INTERFACE BETWEEN DEMOLITION AND EXISTING CONSTRUCTION TO REMAIN TO AVOID DAMAGE TO ANY SYSTEM THAT IS TO REMAIN.
- 4. CONTRACTOR SHALL REMOVE ALL MAJOR ELECTRICAL MATERIALS AND EQUIPMENT THAT ARE NOT FULLY FUNCTIONAL PRIOR TO THE COMPLETION OF CONSTRUCTION.

	LIGHTING SCHEDULE								
TYPE	L QTY	AMPS CAT #	CATALOG NO.	DESCRIPTION	INPUT LOAD	VOLT	MOUNTING		
А	-	LED	FLUXWERX APS F D B 35 W 08 G F2 M 03	ARCHITECTURAL UP / DOWN PENDANT 96" LED, WHITE, DIM, 2,963 LUMENS	42 VA	120	PENDENT 96" AFF		
в	-	LED	FLUXWERX APS F D D 35 W 08 G F2 M 03	ARCHITECTURAL UP / DOWN PENDANT 96" LED, WHITE, DIM, 4,583 LUMENS	68 VA	120	PENDENT 96" AFF		
С	-	LED	COLUMBIA LCAT24-35-LW-G-R-ED-U	ARCHITECTURAL TROFFER 4,290 LUMENS	32.2 VA	120	GRID		

LIGHTING SCHEDULE NOTES

1. FIXTURE COLORS NOTED IN THE SCHEDULE ARE FOR BIDDING PURPOSES ONLY. VERIFY FINAL COLORS AND FINISHES WITH ARCHITECT AND PROVIDED SAMPLES FOR COLOR SELECTION AND VERIFICATION.

ELECTRICAL LEGEND

	BRANCH CIRCUIT PANELBOARD
	TELEPHONE TERMINAL BOARD
Ń	MOTOR
Γh	FUSED SAFETY SWITCH / DISCONNECT
Н	DOOR OPENER
4	COMBINATION MOTOR STARTER
	CONTACTOR
LA-7	CIRCUITRY HOMERUN: PANEL LA - CIR. #7
	CONDUIT OR WIRE CONCEALED IN WALL/CLG.
	CONDUIT OR WIRE UNDERFLOOR/UNDERGND.
U	CEILING JUNCTION BOX - SURFACE/FLUSH
ЭH	WALL JUNCTION BOX - SURFACE/FLUSH
\ominus	SIMPLEX RECEPTACLE
⇔	DUPLEX RECEPTACLE
C	SPLIT WIRED DUPLEX RECEPTACLE
(FOURPLEX RECEPTACLE
€	APPLIANCE RECEPTACLE - 3 WIRE
\bigcirc	APPLIANCE RECEPTACLE - 4 WIRE
\bigcirc	FLOOR BOX
	WALL MOUNTED POWER STRIP
()	THERMOSTAT
▼	TELEPHONE OUTLET
\diamond	COMPUTER-DATA
\mathbf{V}	COMBINATION DATA/TELEPHONE
$\overline{\mathbf{V}}$	TELEVISION OUTLET
Ň	VOLUME CONTROL
Н	HANDICAP DOOR BUTTON
<c></c>	SECURITY CAMERA
Ś	SPRINKLER HEAD
Ę	INTERCOM SPEAKER
\sim	INTERCOM HANDSET
Ф́-	INTERCOM AUDIO ACTIVATED STROBE 10-15 SEC
	WIFI ACCESS POINT

SWITCHES

- SINGLE POLE SWITCH
- TWO POLE SWITCH \$2
- THREE-WAY SWITCH
- FOUR-WAY SWITCH DIMMER SWITCH
- \$n

\$os \$ms OCCUPANCY/MOTION SENSOR

LIGHTING

#	FIXTURE # INDICATES FIXTURE TYPE
	FIXTURE WITH EMERGENCY BALLAST
	WALL BRACKET FIXTURE
нОч	OPEN STRIP FIXTURE
-�-	SURFACE FIXTURE WITH EMERGENCY BALLAST
-\$-	SURFACE MOUNTED CEILING FIXTURE & PENDENT
-Ò-'	WALL MOUNTED FIXTURE
- <u></u>	RECESSED CEILING DOWN LIGHT
	DOUBLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
Ř ŘH	SINGLE FACE EXIT SIGN, WALL AND CEILING MOUNTED
	WALL/CEILING MOUNTED EMERGENCY LIGHT
	WALL/CEILING MOUNTED EMERGENCY AND EXIT LIGHT
	REMOTE MOUNTED EMERGENCY HEAD
ا ا	TRACK LIGHTING
	NIGHT LIGHT
\Box	SLOT OR PENDENT LIGHT

ABBREVIATIONS

NL	EXISTING NIGHT/SECURITY LIGHT - DO NOT SWITCH
WP	WEATHERPROOF
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
AFCI	ARC FAULT CIRCUIT INTERRUPTER
GP	GFCI RECEPTACLE
EM	EMERGENCY FUNCTION
42"	MOUNTING HEIGHT - A.F.F. OR A.F.G. TO C.L. HIGH
HID CB	INTENSITY DISCHARGE LIGHTING TYPE CIRCUIT BREAKER
SWD CB	U.L. LISTED AS SWITCHING DUTY CIRCUIT BREAKER
(N)	NEW
(E)	EXISTING
UNO	UNLESS NOTED OTHERWISE

LEGEND NOTES

1) ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED 2) WHERE A SYMBOL IS USED WHICH IS NOT IN THE LEGEND, THAT SYMBOL COMPLIES WITH NFPA 170. 3) SYMBOLS DEPICTED IN LIGHTER LINE WEIGHT ARE EXISTING.



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FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

TITLE SHEET DETAILS **SCHEDULES**

DATE:

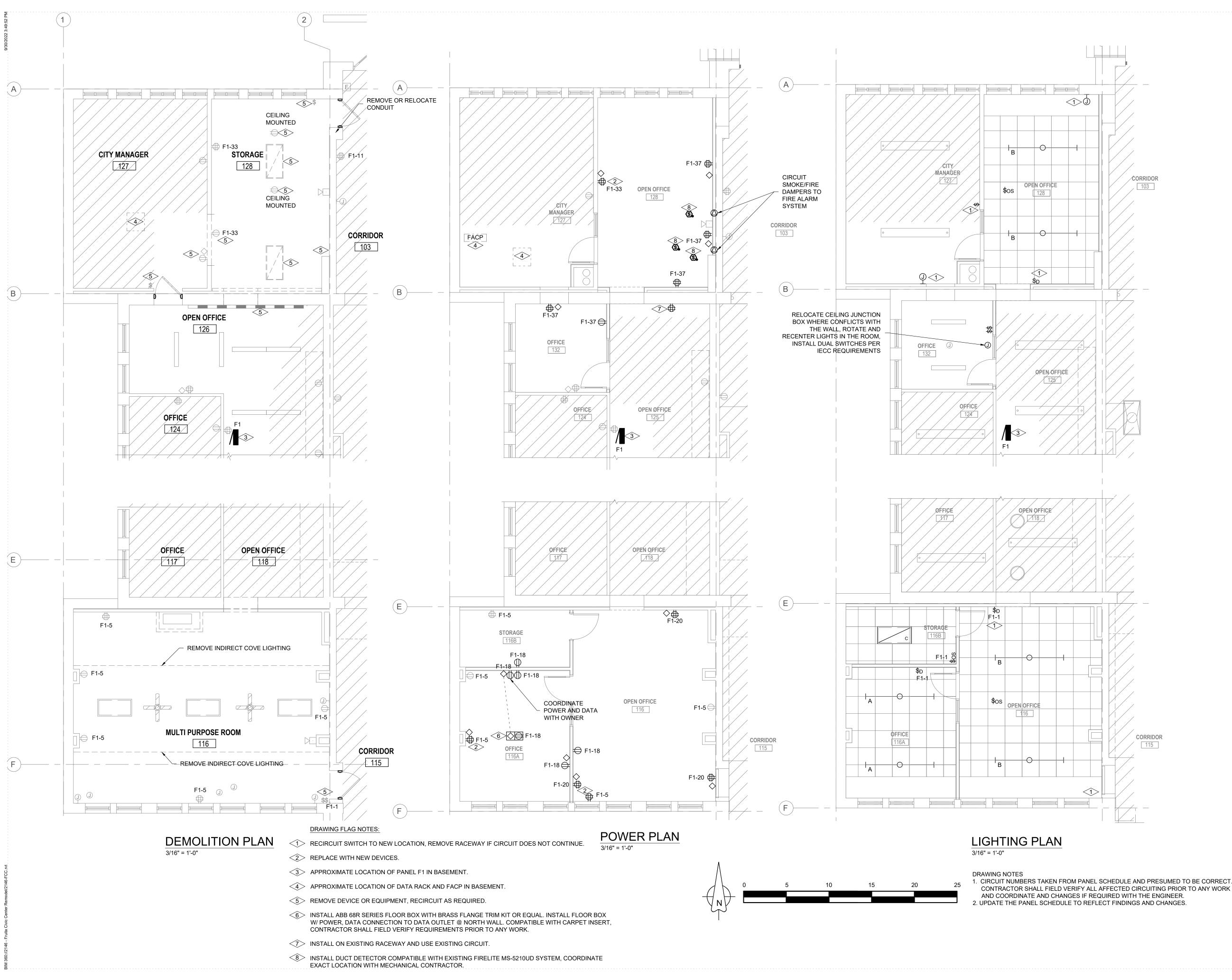
PROJECT STATUS: CONSTRUCTION DOCUMENTS

ISSUED FOR:

DATE: 11/07/2022

SHEET NO:









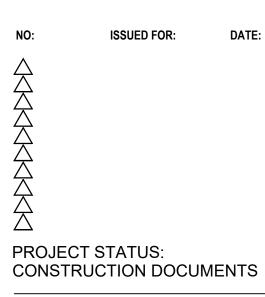
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FRUITA CIVIC **CENTER - OFFICE** REMODEL

FRUITA, COLORADO

DEMOLITION LIGHTING POWER



DATE: 11/07/2022

SHEET NO:

PROJECT NO:

E101 2146.02

SECTION 260100 ELECTRICAL GENERAL PROVISIONS PART 1 - GENERAL 1.01 CENERAL CONDITIONS	G. GUARANTEE: THIS CO EXISTING EQUIPMENT
1.01 GENERAL CONDITIONS A. THE INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS, SPECIAL CONDITIONS, ADDENDAS, ALTERNATES, THESE TECHNICAL SPECIFICATIONS AND ALL DRAWINGS, TOGETHER WITH THE FORM OF PROPOSAL AND AGREEMENT,	ACCEPTANCE AND LEADEVELOP WITHIN THE REMEDY THE DEFECTS
COMPRISE THE CONTRACT DOCUMENTS FOR THE ELECTRICAL CONTRACT. THE ELECTRICAL CONTRACTOR SHALL EXAMINE ALL OF THESE DOCUMENTS PRIOR TO SUBMITTING HIS OR HER PROPOSAL.	DEFECTS OR THE WOR THE CONDITION BEFO
B. THE CONTRACTOR IS REQUIRED TO READ CAREFULLY THE SPECIFICATIONS FOR ALL PARTS OF THE WORK SO AS TO BECOME FAMILIAR NOT ONLY WITH THE WORK COVERED BY THIS SECTION, BUT ALSO THAT OF OTHER DIVISIONS	1.06 FEES AND INSPECTI A. THE CONTRACTOR SH
AND SECTIONS, INCLUDING ALL DRAWINGS. C. REFER TO THE GENERAL REQUIREMENTS, DIVISION 15 MECHANICAL, AS MANY OF THE GENERAL REQUIREMENTS	CERTIFICATES IN CON B. UPON COMPLETION O
STATED THEREIN ARE APPLICABLE TO THE ELECTRICAL WORK AND COORDINATION OF THE TWO TRADES IS COVERED.	RECOGNIZED AGENCIE NATIONAL BOARD OF F
D. THE CONTRACTOR SHALL WATCH THE PROGRESS OF THE WORK AND REPORT TO THE ENGINEER IMMEDIATELY ANY CASES WHERE AMPLE SPACE HAS NOT BEEN PROVIDED TO ACCOMMODATE HIS WORK. HE MUST NOT CUT	FROM SAID BUREAU A
THROUGH ANY FINISHED WORK UNTIL HE HAS RECEIVED PERMISSION FROM THE ENGINEER. NO CLAIMS FOR EXTRA WORK WILL BE ALLOWED BECAUSE OF MISINTERPRETATION OF PLANS AND SPECIFICATIONS OR DUE TO CONFLICT	A. REFER TO RELEVANT EQUIPMENT.
BETWEEN TRADES FOR USEABLE SPACE. E. THE CONTRACTOR IS INVITED TO SUBMIT ALTERNATIVE METHODS OR MATERIALS AS A COST REDUCTION FACTOR,	B. ALL MATERIALS SHALL SPECIFIED, AND SHALI
HOWEVER SAFETY AND INTEGRITY OF THE SYSTEMS MUST BE MAINTAINED. THESE ALTERNATIVE METHODS OR MATERIALS ARE NOT TO BE IMPLEMENTED UNLESS WRITTEN PERMISSION IS PROVIDED BY THE ENGINEER.	ANTICIPATED BY THIS C. PROVIDE PRODUCTS
F. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK INCLUDED IN THIS SECTION AND THE DELEGATION OF WORK TO THE ELECTRICAL CONTRACTOR, SHALL NOT RELIEVE HIM OF THIS RESPONSIBILITY. THE	AND WITH OTHER WOR ELECTRICAL CONNECT
ELECTRICAL CONTRACTOR AND HIS SUBCONTRACTORS WHO PERFORM WORK UNDER THIS SECTION SHALL BE RESPONSIBLE TO THE GENERAL CONTRACTOR.	COORDINATE COLORS 1.08 SUBMITTALS
G. BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE AND EXAMINE ALL ADJOINING EXISTING BUILDINGS, FACILITIES, SITE CONDITIONS, AND EQUIPMENT AND SPACE CONDITIONS ON DEPENDENT WHICH HIS WORK IS IN	A. FURNISH THE ENGINE WITH GENERAL COND
ANY WAY DEPENDS FOR THE BEST WORKMANSHIP AND OPERATION ACCORDING TO THE INTENT OF SPECIFICATIONS AND DRAWINGS. HE SHALL REPORT TO THE ENGINEER ANY CONDITION WHICH MIGHT PREVENT	CHECKING AND APPRO DELIVERED, ERECTED
HIM FROM INSTALLING HIS EQUIPMENT IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE	THE ENGINEER. COOR 1. LIGHTING FIXTURE
FURNISHED OR WORK TO BE DONE. 1.02 CONTENTS A OPEOIEIED LIEDEIN, CENERAL DECLUREMENTS FOR ELECTRICAL WORK	2. GEAR, CONDUIT, N B. THE ELECTRICAL CON
A. SPECIFIED HEREIN: GENERAL REQUIREMENTS FOR ELECTRICAL WORK. B. DESCRIBED HEREIN ARE THE FOLLOWING: SCOPE	OR BROCHURES FOR A
QUALITY ASSURANCE, STANDARDS AND SYMBOLS FEES AND INSPECTION CERTIFICATES	APPROVAL OF THE SH GENERAL CONFORMA SHOWN IS SUBJECT TO
MATERIALS SUBMITTALS	RESPONSIBLE FOR: DI FABRICATION PROCES
SUBSTITUTION OF MATERIALS TEMPORARY POWER AND LIGHTING	THAT OF ALL OTHER T 1.09 SUBSTITUTION OF M
ELECTRICAL DRAWINGS COORDINATION	A. IN GENERAL, THE CON ARRANGEMENTS SUI
EQUIPMENT IDENTIFICATION AND MARKING SLEEVES, INSERTS, FASTENINGS, SUPPORTS, CUTTING AND PATCHING	IN THE EVENT THAT C A DEVICE OR PIECE C
SCAFFOLDING TESTING, ADJUSTING, CLEANING	SERVICES DIFFERING CONTRACTOR SHALL
AS-BUILT DRAWINGS OPERATION AND MAINTENANCE MANUALS	TO ACCOMMODATE T ALL ADDITIONAL COS
INTERPRETATION OF DOCUMENTS 1.03 SCOPE	EQUIPMENT NAMED C THE CONTRACTOR TO
A. ANY AND ALL APPARATUS APPLIANCE, MATERIAL OR WORK NOT SHOWN ON DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES OR EQUIPMENT NECESSARY TO MAKE THE	COMPATIBLE WITH TH B. THE NAMING OF A CEF
WORK COMPLETE AND PERFECT IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE FURNISHED, DELIVERED AND INSTALLED BY THE CONTRACTOR WITHOUT ADDITIONAL	ESTABLISH A QUALITY RESTRICTED TO THE U
EXPENSE TO THE OWNER. CONTRACTOR SHALL FIELD VERIFY ALL CONTROLLING CONDITIONS PRIOR TO BIDDING AND INCLUDE ANY AND ALL WORK AND MATERIALS IN THE BASE BID.	INDICATED IN THE SPE SUBSTITUTION WILL B
B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S ESTIMATE, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.	REQUEST FOR SUCH S LEAST FIVE WORKING
IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED, AND READY FOR OPERATION. C. WITH SUBMISSION OF BID, THE ELECTRICAL CONTRACTOR SHALL GIVE WRITTEN NOTICE TO THE ENGINEER OF ANY	ACCOMPANIED BY MA OF THE ENGINEER, IS
MATERIALS OR APPARATUS BELIEVED INADEQUATE OR UNSUITABLE, IN VIOLATION LAWS, ORDINANCES, OR RULES; AND ANY NECESSARY ITEMS OR WORK OMITTED. IN THE ABSENCE OF SUCH WRITTEN NOTICE IT IS MUTUALLY	ORDERED, FABRICATE ENGINEER. THE CONTI REQUIRED IN ANY WA
AGREED THE CONTRACTOR HAS INCLUDED THE COST OF ALL REQUIRED ITEMS IN HIS PROPOSAL, AND THAT HE WILL BE RESPONSIBLE FOR THE APPROVED SATISFACTORY FUNCTIONING OF THE ENTIRE SYSTEM WITHOUT EXTRA	SPECIFIED. 1.10 TEMPORARY POWER
COMPENSATION. D. NOT USED	A. THE ELECTRICAL CON PROVIDING TEMPORAL
E. THE WORK CONSISTS OF THE FOLLOWING: 1. INSTALLATION OF ANY AND ALL ELECTRICAL EQUIPMENT AND DEVICES DEPICTED ON THE DRAWINGS AND AS	B. THE ELECTRICAL CON PIGTAIL SOCKET WITH
REQUIRED TO PROVIDE A COMPLETE SYSTEM. 2. BRANCH CIRCUIT WIRING, ETC., AS SHOWN ON THE PLANS OR REQUIRED FOR OPERATION OF THE ELECTRICAL	DISTRIBUTED THROUG 5 FOOT CANDLES FOR
SYSTEM. 3. A COMPLETE CONDUIT AND RACEWAY SYSTEM PROPERLY GROUNDED TO THE BUILDING GROUNDING SYSTEM	C. ANY LIGHT OR POWEF PAID FOR BY THE CON
AND/OR WATER SERVICE PIPING. 4. CUTTING AND PATCHING OF HOLES REQUIRED FOR THE INSTALLATION IN CONCRETE, WOOD, STEEL OR	BY THE GENERAL CON 1.11 ELECTRICAL DRAWI
MASONRY. 5. REPAIR OF ALL DAMAGE DONE TO THE PREMISES AS A RESULT OF THE INSTALLATION AND REMOVAL OF ALL	A. THE DRAWINGS ARE D
DEBRIS OR SURPLUS MATERIAL LEFT BY THOSE ENGAGED IN THE WORK. 6. COMPLETE AND THOROUGH CLEANING OF ALL EQUIPMENT FURNISHED AND INSTALLED, BOTH INSIDE AND OUTSIDE, AND MADE DEADY FOR DAINTING BY OTHERS.	CONTRACTOR SHALL (DRAWINGS OF OTHER
OUTSIDE, AND MADE READY FOR PAINTING BY OTHERS. 7. TESTING AND ADJUSTING OF ALL EQUIPMENT. 8. COOPERATION WITH OTHER CRAFTS IN PUTTING THE INSTALLATION IN PLACE AT ANY TIME WHEN SPACE	LOCATIONS: THIS CON MINOR FIELD ADJUSTM SCALE OF THE DRAWII
REQUIRED IS READY AND THE PROGRESS OF THE WORK SO DICTATES. 9. DEMOLITION OF EXISTING LIGHTING EQUIPMENT AS CALLED OUT ON THE CONSTRUCTION DOCUMENTS.	B. THE DRAWINGS AND S REQUIRED BY EITHER
1.04 NOT USED 1.05 QUALITY ASSURANCE, STANDARDS AND SYMBOLS	C. IF DIRECTED BY THE E REASONABLE MODIFIC
A. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY AND FIRE INSURANCE CARRIER'S REQUIREMENTS.	OTHER TRADES FOR F D. ELECTRICAL SYMBOLS
CONTACT PROPER AUTHORITIES, OBTAIN AND PAY FOR REQUIRED PERMITS, INSPECTIONS AND UTILITY SERVICE CONNECTIONS. DO NOT INCLUDE ANY UTILITY COMPANY CHARGES THAT CAN BE BILLED DIRECTLY TO THE OWNER.	ACCOMPANYING WOR APPEAR ON THE PROJ
B. IN CASE OF DIFFERENCE BETWEEN THE BUILDING CODES, SPECIFICATIONS, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, UTILITY COMPANY REGULATIONS, FIRE INSURANCE CARRIER'S REQUIREMENTS, AND THE	OCCURS, THE ITEM SH E. CONDUCTOR AND COI
CONTRACT DOCUMENTS, THE MOST STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF ANY SUCH DIFFERENCE.	EQUIPMENT AND IN TH NOTED ALL OTHER CIF
C. NONCOMPLIANCE: SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS,	F. THE DRAWINGS ARE IN FITTINGS, BOXES AND
FIRE INSURANCE CARRIER'S REQUIREMENTS, AND UTILITY COMPANY REGULATIONS, HE SHALL BEAR THE COST ARISING IN CORRECTING ANY SUCH DEFICIENCY.	G. ALL CONDUITS, WIRES H. THE ELECTRICAL CON
D. APPLICABLE CODES AND ALL STANDARDS SHALL INCLUDE ALL STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS AND THE APPLICABLE REQUIREMENTS OF THE FOLLOWING NATIONALLY ACCEPTED	SINGULAR; HOWEVER, EQUIPMENT AS INDICA
CODES AND STANDARDS: 1. BUILDING CODES A. INTERNATIONAL BUILDING CODE	I. WHERE IT IS STATED T IT SHALL MEAN THAT S 1.12 COORDINATION
B. LOCAL BUILDING CODE C. NATIONAL ELECTRICAL CODE	A. GENERAL: REFER TO APPLICABLE TO THE E
D. STATE ELECTRICAL CODE E. LOCAL MUNICIPAL ELECTRICAL CODE	DIAGRAMMATIC IN SHO WITHIN THE ELECTRIC
2. INDUSTRY STANDARDS, CODES, AND SPECIFICATIONS A. ASTM- AMERICAN SOCIETY FOR TESTING AND MATERIALS	MECHANICAL WORK, A CONTRACTOR. INSTAL
B. EIA -ELECTRONIC INDUSTRIES ASSOCIATION C. IEEE - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS	IN NO WAY RETARD PE A NEAT, WELL ORGAN
D. IPCEA - INSULATED POWER CABLE ENGINEERS' ASSOCIATION E. NEC - NATIONAL ELECTRICAL, CODE (NFPA NO. 70-1996)	B. THE LAYOUT OF WIRIN SHALL BE SUBJECT TO
F. NBS - NATIONAL BUREAU OF STANDARDS G. NEMA -NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION	CHANGES SHALL BE M ENGINEER.
H. NFPA - NATIONAL FIRE PROTECTION ASSOCIATION I. USASI - UNITED STATES OF AMERICA STANDARDS INSTITUTE	C. EXAMINE THE DRAWIN OUTLETS TO PROPERI
J. UL -UNDERWRITES' LABORATORIES 3. INSURANCE CARRIERS	STRUCTURAL PANELS CUTS, ETC., FOR SPEC
A. FIA - FACTORY INSURANCE ASSOCIATION B. FMED - FACTORY MUTUAL ENGINEERING DIVISIONS.	MUST BE MADE. OUTLI LOCATED THROUGH F.
E. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF MATERIAL AND EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE ELECTRICAL CONTRACTOR SHALL	CORRECTION AND/OR D. COORDINATION DRAW
COORDINATE THE WORK UNDER THIS SECTION WITH THE OTHER CONTRACTORS AS REQUIRED, AND THE DRAWINGS OF OTHER TRADES FOR EXACT DIMENSIONS, CLEARANCES AND ROUGHING-IN LOCATIONS. THIS CONTRACTOR SHALL COOREDATE WITH ALL OTHER ADJUSTMENTS TO ACCOMMODATE THE WORK OF OTHERS, DO	COMBINED MECHANIC PRECISION IN ORDER
CONTRACTOR SHALL COOPERATE WITH ALL OTHER ADJUSTMENTS TO ACCOMMODATE THE WORK OF OTHERS. DO NOT RELY ON THE SCALE OF THE DRAWINGS FOR ROUGH-IN MEASUREMENTS, NOR USE THEM AS SHOP DRAWINGS. F. ALL MATERIALS AND EQUIPMENT FOR WHICH LABEL SERVICE IS AVAILABLE SHALL BEAR THE LABEL OF THE	(SHOP DRAWINGS) SH FOR THE INSTALLATIO PURCHASE-FABRICATI
LALLWATLINALOANUTTUUTUU NITUU WUBBITEDITUU NIN TUUNABEDITUU	

CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (ANY IT ARE EXEMPT) FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL EAVE HIS WORK IN PERFECT ORDER AT COMPLETION. SHOULD DEFECTS IE GUARANTEE PERIOD, THIS CONTRACTOR SHALL, UPON NOTICE OF SAME, TS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE

ORK OF CORRECTING SAME REPAIRED AND/OR REPLACED AT HIS EXPENSE, TO ORE SUCH DAMAGE. TION CERTIFICATES

SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION SERVICES AND **DNJUNCTION WITH THIS WORK.**

OF THE WORK, CONTRACTOR SHALL OBTAIN THE APPROVAL OF ALL CIES CONCERNED WITH THE WORK, ALONG WITH THE APPROVAL OF THE F FIRE UNDERWRITERS, SUCH CERTIFICATES OF INSPECTION AND APPROVAL AND/OR AGENCIES MUST BE SUBMITTED TO THE ENGINEER.

NT SECTIONS FOR GENERAL REQUIREMENTS ON PRODUCTS, MATERIALS AND

ALL BE NEW, THE BEST OF THEIR RESPECTIVE KINDS, UNLESS OTHERWISE ALL BE INSTALLED BY LABOR THOROUGHLY SKILLED IN THE CLASS OF WORK IS CONTRACT.

S WHICH ARE COMPATIBLE WITH OTHER PRODUCTS OF THE ELECTRICAL WORK ORK REQUIRING INTERFACE WITH THE ELECTRICAL WORK, INCLUDING CTIONS AND CONTROL DEVICES. FOR EXPOSED ELECTRICAL WORK, RS AND FINISHES WITH OTHER WORK.

VEER WITH COMPLETE SHOP DRAWINGS AND ASSOCIATED DATA IN ACCORDANCE IDITIONS, FOR ALL MAJOR ELEMENTS OF THE ELECTRICAL WORK FOR REVIEW, ROVAL. NONE OF THE FOLLOWING EQUIPMENT SHALL BE FABRICATED, ED OR CONNECTED OTHER THAN FROM DRAWINGS OFFICIALLY APPROVED BY ORDINATE WITH SUBCONTRACTORS FOR HVAC AND PLUMBING WORK. RES, LAMPS AND BALLASTS, POLES, AND RELATED EQUIPMENT AND DEVICES. , WIRING, AND FITTINGS.

ONTRACTOR SHALL FURNISH AND PRESENT FIVE (5) COPIES OF SHOP DRAWINGS R ALL FIXTURES, EQUIPMENT, AND ACCESSORIES TO THE ENGINEER FOR THE VAL. NO EQUIPMENT SHALL BE ORDERED, PURCHASED, OR INSTALLED PRIOR TO SHOP DRAWINGS, BROCHURES, AND SCHEDULES. CHECKING IS ONLY FOR IANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE

TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. CONTRACTOR IS DIMENSIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE; ESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATION OF HIS WORK WITH TRADES AND THE SATISFACTORY PERFORMANCE OF HIS WORK. MATERIALS

ONTRACT DRAWINGS AND SPECIFICATIONS SHOW AND DESCRIBE UITABLE FOR THE SPECIFIC ITEMS OF EQUIPMENT EITHER NAMED OR DESCRIBED. CONTRACTOR SUBMITS FOR APPROVAL, AND RECEIVES SUCH APPROVAL, FOR OF EQUIPMENT WHICH REQUIRES CONNECTIONS OR ARRANGEMENTS OF THESE IG FROM THOSE INDICATED OR DESCRIBED IN THE CONTRACT DOCUMENTS. LL GIVE TIMELY NOTICE AND SHALL MAKE SUITABLE ALTERATIONS IN THE WORK THE SUBSTITUTE EQUIPMENT, AND HE SHALL BE RESPONSIBLE FOR ANY AND STS INCURRED BY VIRTUE OF THE SUBSTITUTION OF SUCH EQUIPMENT FOR THE OR DESCRIBED IN THE CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF TO VERIFY THAT EVERY ASPECT OF THE THE SUBSTITUTION IS FULLY THE DESIGN INTENT.

ERTAIN BRAND OR MAKE OR MANUFACTURER IN THE SPECIFICATIONS IS TO TY STANDARD FOR THE ARTICLE DESIRED. THE CONTRACTOR IS NOT E USE OF THE SPECIFIC BRAND OF THE MANUFACTURER NAMED UNLESS SO PECIFICATIONS. HOWEVER WHERE A SUBSTITUTION IS REQUESTED, A BE PERMITTED ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER. SUBSTITUTIONS SHALL BE SUBMITTED IN TRIPLICATE TO THE ENGINEER AT G' DAYS PRIOR TO THE BID OPENING DATE. SUCH REQUESTS SHALL BE IANUFACTURER'S DATA SHEETS AND OTHER INFORMATION THAT, IN THE OPINION S NECESSARY FOR REVIEW. NO SUBSTITUTE MATERIAL OR EQUIPMENT SHALL BE TED, SHIPPED OR PROCESSED IN ANY MANNER PRIOR TO THE APPROVAL OF THE ITRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ADDITIONAL EXPENSES AS AY TO MEET CHANGES FROM THE ORIGINAL MATERIAL OR EQUIPMENT

ER AND LIGHTING

DNTRACTOR SHALL BE RESPONSIBLE FOR ALL ARRANGEMENTS AND COSTS FOR ARY POWER AND LIGHTING AS NECESSARY FOR CONSTRUCTION PURPOSES. DNTRACTOR SHALL FURNISH AND INSTALL A MINIMUM OF ONE OSHA APPROVED TH 150-WATT LAMP FOR EVERY 500 SQUARE FEET OF FLOOR SPACE; EVENLY JGHOUT THE BUILDING. TEMPORARY LIGHTING SHOULD PROVIDE A MINIMUM OF OR SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE PROJECT. ER OUTLET REQUIRED OVER THE MAXIMUM QUANTITY NOTED ABOVE SHALL BE NTRACTOR REQUIRING THE SAME. POWER CONSUMPTION SHALL BE PAID FOR ONTRACTOR NINGS

E DIAGRAMMATIC AND INDICATE GENERALLY THE LOCATIONS OF MATERIAL AND DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. THE ELECTRICAL COORDINATE THE WORK UNDER THIS SECTION WITH THE PLUMBING AND THE R TRADES FOR EXACT DIMENSIONS, CLEARANCES AND ROUGHING-IN ONTRACTOR SHALL COOPERATE WITH ALL OTHER TRADES IN ORDER TO MAKE TMENTS TO ACCOMMODATE THE WORK OF OTHERS. DO NOT RELY ON THE VING FOR ROUGH-IN MEASUREMENTS, NOR USE THEM AS SHOP DRAWING.) SPECIFICATIONS ARE COMPLEMENTARY, EACH TO THE OTHER, AND THE WORK R SHALL BE INCLUDED IN THE CONTRACT AS IF CALLED FOR BY BOTH. E ENGINEER, THE CONTRACTOR SHALL WITHOUT EXTRA CHARGE. MAKE FICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF

R PROPER EXECUTION OF THE WORK. DLS USED ON THIS PROJECT ARE SHOWN IN A SYMBOL LIST ON TIME ORKING DRAWINGS. THIS LIST SHOWS STANDARD SYMBOLS AND ALL MAY NOT OJECT DRAWINGS; HOWEVER. WHEREVER THE SYMBOL ON PROJECT DRAWINGS SHALL BE PROVIDED AND INSTALLED.

ONDUIT SIZES ARE SHOWN ON THE DRAWINGS IN EQUIPMENT SCHEDULE FOR THE ONE LINE DIAGRAM FOR ELECTRICAL DISTRIBUTION. UNLESS OTHERWISE CIRCUITS SHALL BE 1/2" CONDUIT WITH 2#12(CU, THWN).

INDICATIVE OF THE WORK TO BE INSTALLED, BUT DO NOT SHOW ALL BENDS, ID SPECIALTIES REQUIRED TO COMPLETE THE INSTALLATION.

ES, OUTLET BOXES AND FIXTURES SHALL BE INCLUDED IN THE WORK. ONTRACTOR SHALL NOTE THAT ALL ITEMS OF EQUIPMENT ARE SPECIFIED IN THE R, THE CONTRACTOR SHALL PROVIDE AND INSTALL THE NUMBER OF ITEMS CATED ON THE DRAWINGS AND AS REQUIRED FOR COMPLETE SYSTEMS. THAT THE CONTRACTOR SHALL "PROVIDE" A DEVICE OR PIECE OF EQUIPMENT, I SUCH DEVICES OR EQUIPMENTS ARE FURNISHED AND INSTALLED.

O THE RELEVANT SECTIONS FOR GENERAL COORDINATION REQUIREMENTS ENTIRE WORK, IT IS RECOGNIZED THAT THE CONTRACT DOCUMENTS ARE HOWING CERTAIN PHYSICAL RELATIONSHIPS WHICH MUST BE ESTABLISHED ICAL WORK, AND IN ITS INTERFACE WITH OTHER WORK INCLUDING UTILITIES AND , AND THAT SUCH ESTABLISHMENT IS THE EXCLUSIVE RESPONSIBILITY OF THE ALL THE WIRING AND EQUIPMENT AT SUCH TIMES AND IN SUCH MANNER AS WILL PROGRESS OR COMPLETION OF THE PROJECT. ARRANGE ELECTRICAL WORK IN NIZED MANNER WITH CONDUIT AND SIMILAR SERVICES RUNNING PARALLEL. RING ON THE SMALL SCALE DRAWINGS SHALL NOT BE ABSOLUTE. THE DESIGN TO SUCH REVISIONS AS MAY BE NECESSARY TO OVERCOME OBSTRUCTIONS. NO MADE IN LIGHT FIXTURE LOCATIONS WITHOUT THE WRITTEN CONSENT OF THE

/INGS AND DETAILS FOR THE PLACEMENT OF ALL EQUIPMENT AND DEVICES RLY COORDINATE THEM WITH RELATION TO CABINETS, TABLES, BENCHES, S, TRIMS, MOLDINGS, ETC. EXAMINE ALL OTHER SHOP DRAWINGS, CATALOG ECIAL APPARATUS WHICH MAY BE ROUGHED IN AND TO WHICH CONNECTIONS LETS, APPARATUS AND CONNECTIONS THERETO WHICH ARE IMPROPERLY FAILURE TO FOLLOW THE ABOVE INSTRUCTIONS, SHALL BE SUBJECT TO R RELOCATION WITHOUT EXTRA CHARGE TO THE OWNER. WINGS: FOR LOCATIONS WHERE SEVERAL ELEMENTS OF ELECTRICAL (OR ICAL AND ELECTRICAL) WORK MUST BE SEQUENCED AND POSITIONED WITH R TO FIT INTO THE AVAILABLE SPACE, PREPARE COORDINATION DRAWINGS HOWING THE ACTUAL PHYSICAL DIMENSIONS (AT ACCURATE SCALE) REQUIRED ION. PREPARE AND SUBMIT COORDINATION DRAWINGS PRIOR TO TION-COORDINATION.

1.13 EQUIPMENT IDENTIFICATION AND MARKING

- A. IDENTIFICATION OF EQUIPMENT: ALL JUNCTION BOXES WITH BLANK COVERS SHALL HAVE CIRCUITS CONTAINED THEREIN IDENTIFIED BY MEANS OF PERMANENT BLACK "SHARPIE" ON THE COVER
- B. BRANCHES FOR LIGHTING WIRES SHALL BE TAGGED AND IDENTIFIED WITH STANDARD WIRE MARKERS IN ALL PANELS AND PULL BOXES. THE TAGGING SHOULD CONVEY THE CIRCUIT NUMBER AND THE EQUIPMENT IT SERVES (I.E. - "PP1-7,9,11 AC-1"). LIGHTING, RECEPTACLE, AND EQUIPMENT CIRCUITS NEED ONLY IDENTIFY THE CIRCUIT NUMBER
- 1.14 SLEEVES, INSERTS, FASTENINGS, SUPPORTS, CUTTING AND PATCHING
- A. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL METALLIC SUPPORTS AS REQUIRED FOR THE PROPER INSTALLATION OF RACEWAY SYSTEMS AND ALL OTHER EQUIPMENT INSTALLED
- UNDER THIS DIVISION OF THE CONTRACT CONFORMING TO THE LATEST EDITION OF THE NEC. B. CONDUIT SHALL BE SUPPORTED ON APPROVED TYPES OF WALL BRACKETS, CEILING TRAPEZES, STRAP HANGERS OR PIPE SUPPORTS. ALL FASTENINGS, SUPPORTS, CLAMPS AND ANCHORS, ETC. SHALL BE OF TYPE MADE FOR THE PURPOSE. FOR HOLLOW TILE, OR LATH CONSTRUCTION, TOGGLE OR MACHINE BOLT FASTENINGS SHALL BE USED. FOR STRUCTURAL IRON USE MACHINE SCREWS AND FOR SOLID MASONRY USE METALLIC EXPANSION SHIELDS AND MACHINE SCREWS. FOR WOOD OR MATERIALS OF SIMILAR FIBROUS NATURE LAG SCREWS OR BOLTS SHALL BE EMPLOYED. SCREWS WITH WOODEN PLUGS OR ANCHORS WILL NOT BE ACCEPTED ON ANY OF THE WORK. STUDS AND FASTENERS IMPLANTED IN SOLID MASONRY BY POWER ACTUATED DEVICES WILL BE ACCEPTABLE IF PRECAUTIONS ARE TAKEN TO PREVENT SPAWLING. THE USE OF INSULATED WIRE SHALL NOT BE ACCEPTABLE AS AN ATTACHING MEANS FOR CONDUIT OR OTHER EQUIPMENT.
- C. CONDUIT SHALL BE SECURELY FASTENED TO ALL SHEET METAL OUTLETS, JUNCTION AND PULL BOXES WITH TWO GALVANIZED LOCKNUTS AND BUSHING, CARE BEING TAKEN TO SEE THAT THE FULL NUMBER OF THREADS PROJECT THROUGH TO PERMIT THE BUSHING TO BE DRAWN TIGHT AGAINST THE END OF THE CONDUIT, AFTER WHICH THE LOCKNUTS SHALL BE MADE TIGHT SUFFICIENTLY TO DRAW THEM INTO FIRM ELECTRICAL CONTACT WITH THE OUTLET BOX. INSTALL A PLASTIC BUSHING ON END OF CONDUITS STUBBED INTO CEILING SPACES TO PROTECT CABLING.
- D. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUPPORTS REQUIRED FOR THE ELECTRICAL EQUIPMENT AND CONDUIT. E. OBTAIN WRITTEN APPROVAL OF THE ENGINEER BEFORE NOTCHING, BORING, CHIPPING, BURNING,
- DRILLING, WELDING TO STRUCTURAL MEMBERS.
- F. FURNISH AND INSTALL ALL SLEEVES WHICH ARE REQUIRED TO PROTECT EQUIPMENT OR WHICH MAY BE NECESSARY TO FACILITATE ITS INSTALLATION. SLEEVES USED IN CONJUNCTION WITH FORMED CONCRETE SHALL BE LOCATED WHERE REQUIRED AND APPROVED BY THE ENGINEER. PROVIDE "FLAMESEAL" OR OTHER APPROVED FIRE STOPPING MATERIAL AT ALL PENETRATIONS THROUGH RATED WALLS, FLOORS AND CEILINGS.
- G. ALL CONDUIT AND OUTLET INSTALLATIONS AND CUTTING OF ANY KIND MUST BE DONE WITH GREAT CARE SO AS NOT TO LEAVE UNSIGHTLY SURFACES WHICH MAY NOT BE ENTIRELY CONCEALED BY PLATES, ESCUTCHEONS OR OTHER NORMAL CONCEALING CONSTRUCTION. IF SUCH UNSIGHTLY CONDITIONS OCCUR, CONTRACTOR WILL BE REQUIRED, AT HIS OWN EXPENSE, TO REPLACE THE DAMAGED CONSTRUCTION.
- 1.15 SCAFFOLDING: FURNISH AND ERECT ALL SCAFFOLDING, LADDERS, ETC., REQUIRED IN THE INSTALLATION OF WIRING, EQUIPMENT AND FIXTURES. 1.16 TESTING, ADJUSTING AND CLEANING
- A. AS SOON AS ELECTRIC POWER IS AVAILABLE AND CONNECTED TO SERVE THE EQUIPMENT IN THE BUILDING, AND EVERYTHING IS READY FOR FINAL TESTING AND PLACING IN SERVICE, A COMPLETE OPERATIONAL TEST SHALL BE MADE IN THE PRESENCE OF THE ENGINEER. THE CONTRACTOR SHALL FURNISH ALL NECESSARY INSTRUMENTS AND EQUIPMENT AND MAKE ALL TESTS, ADJUSTMENTS, AND TRIAL OPERATIONS REQUIRED TO PLACE THE SYSTEM IN BALANCED AND SATISFACTORY OPERATING CONDITION AND HE SHALL PAY ALL PROFESSIONAL ENGINEERING FEES REQUIRED IN SUCH TESTING. DATA ON ALL TESTS SHALL BE SUBMITTED TO THE ENGINEER. FURNISH ALL NECESSARY ASSISTANCE AND INSTRUCTIONS TO PROPERLY INSTRUCT THE OWNER'S AUTHORIZED PERSONNEL IN THE OPERATION AND CARE OF THE SYSTEM.
- B. PRIOR TO TESTING THE SYSTEM, THE FEEDERS AND BRANCH CIRCUITS SHALL BE CONTINUOUS FROM MAIN FEEDERS TO MAIN PANELS, TO SUBPANELS, TO OUTLETS, WITH ALL BREAKERS AND FUSES IN PLACE. THE SYSTEM SHALL BE TESTED FREE FROM SHORTS AND GROUNDS.
- C. NO CIRCUITS SHALL BE ENERGIZED WITHOUT THE OWNER'S APPROVAL. D. THE RIGHT IS RESERVED TO INSPECT AND TEST ANY PORTION OF THE EQUIPMENT AND/OR MATERIALS DURING THE PROGRESS OF ITS ERECTION. THE CONTRACTOR SHALL FURTHER TEST ALL WIRING AND CONNECTIONS FOR CONTINUITY AND GROUNDS BEFORE CONNECTING ANY FIXTURES OR EQUIPMENT.
- E. THE CONTRACTOR SHALL TEST THE ENTIRE SYSTEM IN THE PRESENCE OF THE ENGINEER WHEN THE SYSTEM IS FINALLY COMPLETED TO ENSURE THAT ALL PORTIONS ARE FREE FROM SHORT CIRCUITS OR GROUND FAULTS.
- F. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH CERTIFICATION OF THE INSPECTION AND APPROVAL OF AN ACTIVE MEMBER OF THE INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS OF ALL WORK COMPLETED AND INCLUDED IN THE SECTION, IF REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE INSPECTOR WHEN WORK REACHES INSPECTION STAGE
- G. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ALL PERMITS, INSPECTION FEES, AND INSTALLATION FEES AS REQUIRED TO COMPLETE THE WORK UNDER THIS SECTION OF THE CONTRACT
- H. THIS CONTRACTOR SHALL GUARANTEE THE MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWELVE (12) MONTHS FROM THE TIME THE INSTALLATION IS ACCEPTED BY THE OWNER. IF DURING THIS TIME ANY DEFECTS SHOULD SHOW UP DUE TO ANY DEFECTIVE MATERIALS, WORKMANSHIP, NEGLIGENCE OR WANT OF PROPER CARE ON THE PART OF THIS CONTRACTOR, HE SHALL FURNISH ANY NEW MATERIALS AS NECESSARY, REPAIR SAID DEFECTS, AND PUT THE SYSTEM IN ORDER AT HIS OWN EXPENSE ON RECEIPT OF NOTICE OF SUCH DEFECTS FROM THE ENGINEER. THIS SPECIFICATION IS NOT INTENDED TO IMPLY THAT THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR NEGLIGENCE OF THE OWNER.
- I. UPON COMPLETION OF THE WORK, ALL COMPONENT PARTS, BOTH SINGULARLY AND AS A WHOLE. SHALL BE ADJUSTED AND LEFT IN SATISFACTORY CONDITION. ALL PARTS OF THE INSTALLATION, INCLUDING LIGHTING FIXTURES, ENCLOSURES, PANELBOARDS, ETC., SHALL BE CLEANED, DUSTED OR WASHED AND ADJUSTED TO THE SATISFACTION OF THE ENGINEER. 1.17 AS-BUILT DRAWINGS
- A. CONTRACTOR SHALL KEEP AN ACCURATE RECORD OF ALL DEVIATIONS FROM CONTRACT DRAWINGS AND SPECIFICATIONS. HE SHALL NEATLY AND CORRECTLY ENTER IN COLORED INK OR PENCIL ANY DEVIATIONS ON DRAWINGS AFFECTED, AND SHALL KEEP DRAWINGS AVAILABLE FOR INSPECTION.
- B. AT THE COMPLETION OF THE JOB, AND BEFORE FINAL ACCEPTANCE, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER TWO COMPLETE. SETS OF ELECTRICAL PRINTS MARKED TO SHOW THE WORK "AS-BUILT". THE CONTRACTOR SHALL SHOW MODIFICATIONS TO LOCATIONS FOR ALL MAJOR ELECTRICAL DEVICES, INCLUDING ALL MAJOR RUNS OF CONDUIT, THE CIRCUITING OF EACH FIXTURE, ETC., SHALL BE SHOWN. CERTIFY TO THE ACCURACY OF EACH PRINT BY SIGNATURE AND DATE THEREON, AND DELIVER SAME TO ENGINEER. DRAWINGS SHALL BE REPRODUCIBLES.
- 1.18 OPERATION AND MAINTENANCE MANUALS

END OF SECTION 260100

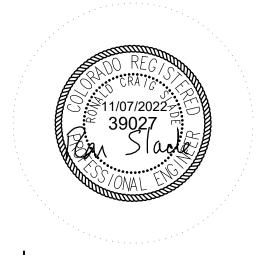
A. CONTRACTOR SHALL PREPARE, ASSEMBLE AND SUBMIT THREE (3) COPIES OF AN OPERATION AND MAINTENANCE MANUAL FOR THE ELECTRICAL SYSTEM AS INSTALLED. B. OPERATION AND MAINTENANCE MANUALS SHALL BE TYPED AND BOUND IN A HARD COVER, THREE

- RING BINDER OR EQUIVALENT PROTECTION, AND SHALL CONTAIN AS A MINIMUM THE FOLLOWING: 1. SHOP DRAWINGS OR CATALOG PRODUCT LITERATURE OF ALL MATERIAL LISTED IN PARAGRAPH 1.08 SUBMITTALS
- 2. MAINTENANCE INSTRUCTIONS FOR ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT. 3. TABLE OF LIGHT FIXTURES LISTING MANUFACTURE AND MODEL NUMBER; LAMP TYPE,
- MANUFACTURE AND MODEL NUMBER; BALLAST TYPE, MANUFACTURE AND MODEL NUMBER. 4. A LIST OF CONTACTS WITH PHONE NUMBERS FOR ALL SYSTEMS FOR OWNERS' USE, IN THE
- EVENT THE ELECTRICAL SYSTEM REQUIRES SERVICE WORK WITHIN THE WARRANTY PERIOD. 5. COPY OF CERTIFICATE OF ACCEPTANCE FROM THE ELECTRICAL INSPECTOR AND ANY OTHER
- APPLICABLE AUTHORITIES.
- 6. COPY OF WARRANTY LETTER FROM ELECTRICAL CONTRACTOR AND APPROPRIATE SUB-CONTRACTORS.
- 1.19 INTERPRETATION OF DOCUMENTS A. IF ANY PERSON CONTEMPLATING SUBMITTING A BID FOR THE PROPOSED CONTRACT IS IN DOUBT AS TO THE MEANING OF ANY PART OF THE DRAWINGS OR PROJECT MANUAL OR SHOULD THE CONSTRUCTION MANAGER DISCOVER AMBIGUITIES, DISCREPANCIES, INCONSISTENCIES OR CONFLICTS HEREIN, HE SHALL SUBMIT TO THE CM AND/OR ENGINEER A WRITTEN REQUEST FOR INTERPRETATION NOT LATER THAN (5) CALENDAR DAYS PRECEDING THE BID DATE. THE PERSON SUBMITTING THIS REQUEST WILL BE RESPONSIBLE FOR ITS PROMPT DELIVERY.
- 1. IN THE EVENT THE CONTRACTOR FAILS TO NOTIFY THE CM OR THE ENGINEER OF ANY AMBIGUITIES, DISCREPANCIES OR INCONSISTENCIES WHICH MAY SUBSEQUENTLY BE GIVEN BY THE ENGINEER. THIS EXPENSIVE WAY OF SUBSEQUENT INFORMATION MAY BE THE MOST EXPENSIVE METHOD OF DOING THE WORK.
- B. INTERPRETATION OF THE PROPOSED DOCUMENTS WILL BE MADE ONLY BY ADDENDUM DULY ISSUED AND A COPY OF SUCH ADDENDUM WILL BE MAILED OR DELIVERED TO EACH PERSON RECEIVING A SET OF SUCH DOCUMENTS. SUCH ADDENDA SHALL BECOME A PART OF THE CONTRACT DOCUMENTS. THE OWNER OR ENGINEER WILL NOT BE RESPONSIBLE FOR ANY OTHER EXPLANATIONS OR INTERPRETATIONS OF THE PROPOSED DOCUMENTS.



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FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

SPECIFICATIONS

NO:

ISSUED FOR:

DATE

PROJECT STATUS:

CONSTRUCTION DOCUMENTS

DATE: 11/07/2022

SHEET NO:



PART 2 SECTION 260500 BASIC MATERIALS AND METHODS

PART 1 - GENERAL

- 1.01 RELATED DOCUMENTS A. ALL WORK PERFORMED UNDER THE REQUIREMENTS OF THIS SECTION SHALL BE SUBJECT TO THE CONDITIONS SET FORTH UNDER "GENERAL CONDITIONS" AND SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED UNDER DIVISION 1, "GENERAL REQUIREMENTS" AS FAR AS APPLICABLE
- TO THIS PORTION OF THE WORK. B. ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 260100 "ELECTRICAL GENERAL PROVISIONS".
- 1.02 CONTENTS
- A. SPECIFIED HEREIN: REQUIREMENTS FOR BASIC ELECTRICAL MATERIALS, EQUIPMENT AND WIRING METHODS.
- B. DESCRIBED HEREIN ARE THE FOLLOWING: SCOPE
- PRODUCT DELIVERY, STORAGE AND HANDLING
- CONNECTORS, LUGS, TAPS AND SPLICES JUNCTION AND PULL BOXES
- OUTLET AND SWITCH BOXES
- CONDUCTORS CONDUIT
- CONDUIT FITTINGS
- 1.03 SCOPE: THE WORK UNDER THIS SECTION SHALL COMPRISE, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING: PROVIDE ALL LABOR AND MATERIAL REQUIRED TO INSTALL A WIRING SYSTEM FOR NEW EQUIPMENT AND LIGHTING SHOWN ON DRAWINGS.
- 1.04 PRODUCT DELIVERY, STORAGE AND HANDLING A. IT IS RECOGNIZED THAT SPACE AT THE PROJECT FOR STORAGE OF MATERIALS AND PRODUCTS MAY BE LIMITED. COORDINATE THE DELIVERIES OF ELECTRICAL MATERIALS AND PRODUCTS WITH THE SCHEDULING AND SEQUENCING OF THE WORK SO THAT STORAGE REQUIREMENTS AT THE PROJECT ARE MINIMIZED. IN GENERAL, DO NOT DELIVER INDIVIDUAL ITEMS OF ELECTRICAL EQUIPMENT TO THE PROJECT SUBSTANTIALLY AHEAD OF THE TIME OF INSTALLATION. LIMIT EACH SHIPMENT OF BULK AND MULTIPLE-USE MATERIALS TO THE QUANTITIES NEEDED FOR INSTALLATIONS WITHIN THREE WEEKS OF
- RECEIPT. B. HANDLE ALL ELECTRICAL MATERIAL CAREFULLY TO PREVENT DAMAGE, DENTS OR MARRING OF THE FINISH.
- C. DELIVER PRODUCTS TO PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS AND SIMILAR INFORMATION NEEDED FOR DISTINCT IDENTIFICATION AND ADEQUATELY PACKAGED OR PROTECTED TO PREVENT DETERIORATION DURING SHIPMENT, STORAGE AND HANDLING. STORE IN A DRY, WELL VENTILATED, INDOOR SPACE, EXCEPT WHERE PREPARED AND PROTECTED BY THE MANUFACTURER SPECIFICALLY FOR EXTERIOR STORAGE. PAY FOR ALL DAMAGE, INJURY OR LOSS, EXCEPT SUCH AS MAY BE DIRECTLY DUE TO ERRORS IN THE CONTRACT DOCUMENTS OR BE CAUSED BY AGENTS OR EMPLOYEES OF THE OWNER. POST EFFECTIVE DANGER SIGNS WARNING AGAINST HAZARDS CREATED BY THE WORK.
- D. DO NOT INSTALL DAMAGED MATERIAL. REMOVE FROM THE PROJECT SITE. E. IF ANY OF THE PROJECT MATERIAL IS TO BE SUPPLIED BY THE CUSTOMER, CONSULT WITH CUSTOMER BEFORE ORDERING NEW EQUIPMENT OR MATERIALS.
- PART 2 PRODUCTS
- 2.01 CONNECTORS, LUGS, TAPS AND SPLICES A. ALL SPLICING SHALL BE DONE IN UTILITY BOXES, OUTLET BOXES, JUNCTION BOXES, ETC,
- B. ALL SPLICES IN DRY LOCATIONS SHALL BE MADE WITH SOLDERLESS CONNECTORS SIMILAR TO "SCOTCHLOCKS" BY 3M COMPANY OR BE MADE BY SOLDERING AND TAPING. IN WET LOCATIONS, SPLICES SHALL INCLUDE "DIRECT BURY TUBES" FOR WET LOCATIONS.
- 2.02 JUNCTION AND PULL BOXES A. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL JUNCTION BOXES AND PULL BOXES WHERE INDICATED ON THE DRAWINGS, OR AS REQUIRED BY THE NEC, OR WHERE NECESSARY TO
- FACILITATE PULLING IN WIRES AND CABLES WITHOUT DAMAGE. B. BOXES SHALL BE FORMED FROM SHEET STEEL, WITH CORNERS FOLDED IN AND SECURELY WELDED, WITH 1/4 INCH INWARD FLANGE ON ALL FOUR EDGES, WITH BOX DRILLED FOR MOUNTING, AND WITH FLANGE DRILLED FOR ATTACHMENT OF COVER. BOX SHALL BE GALVANIZED AFTER FABRICATION. COVER SHALL BE MADE OF ONE PIECE GALVANIZED STEEL AND PROVIDED WITH ROUND HEAD BRASS MACHINE SCREWS FOR FASTENING TO BOX. BOX AND COVER SHALL BE MADE OF CODE GAUGE STEEL, OR HEAVIER AS SPECIFIED. BOXES SHALL BE A MINIMUM OF 4 INCHES DEEP, AND SIZED AS REQUIRED TO MEET NEC STANDARDS, OR LARGER AS SPECIFIED, UTILIZING MANUFACTURER'S STANDARD SIZE, OR NEXT LARGER TO MEET DIMENSIONAL REQUIREMENTS.
- C. PULL AND JUNCTION BOXES SHALL BE FURNISHED WITHOUT KNOCKOUTS FOR FIELD DRAWING AND SHALL BE MANUFACTURED BY HOFFMAN OR APPROVED EQUAL.
- D. IF PULL OR JUNCTION BOX IS EXPOSED, THE BOX SHALL BE PAINTED TO MATCH THE FINISH OF THE BUILDING SURFACES ADJACENT TO THE BOX, UNLESS INDICATED OTHERWISE BY THE ENGINEER. 2.03 OUTLET AND SWITCH BOXES
- A. FURNISH AND INSTALL OUTLET BOXES OF PROPER TYPE AND SIZE AS REQUIRED AT ALL OUTLETS WHERE SHOWN, SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE AND FLUSH WITH THE FINISHED SURFACES. BOXES SHALL BE RIGIDLY SUPPORTED FROM THE STRUCTURE INDEPENDENT OF THE CONDUIT SYSTEM. BEFORE LOCATING THE OUTLET BOXES, CHECK ALL OF THE DRAWINGS FOR TYPE OF CONSTRUCTION AND TO MAKE SURE THAT THERE IS NO CONFLICT WITH OTHER EQUIPMENT. THE OUTLET BOXES SHALL BE SYMMETRICALLY LOCATED ACCORDING TO ROOM LAYOUT AND SHALL NOT INTERFERE WITH OTHER WORK OR EQUIPMENT. ALSO NOTE ANY DETAIL OF THE OUTLETS SHOWN ON THE DRAWINGS.
- B. ALL BOXES FOR LIGHTING OUTLETS SHALL BE PROVIDED WITH FIXTURE STUDS OF A SIZE SUITABLE FOR THE WEIGHT OF THE FIXTURE TO BE SUPPORTED. BUT IN NO CASE LESS THAN 3/8". THE STUD SHALL BE OF INTEGRAL CONSTRUCTION WITH THE BOX, OR OF THE TYPE WHICH IS INSERTED FROM THE BACK OF THE BOX. IN NO CASE SHALL THE WEIGHT OF THE FIXTURE BE DEPENDENT UPON BOLTS HOLDING THE STUD TO THE BOX.
- C. BOXES FOR INTERIOR EXPOSED WIRING SHALL BE MALLEABLE IRON, CADMIUM FINISH, OR CAST ALUMINUM ALLOY, AS MANUFACTURED BY STEEL CITY, AND SHALL NOT BE LESS THAN 4 INCHES SQUARE BY 1 INCHES DEEP UNLESS OTHERWISE NOTED.
- D. FIXTURE OUTLET BOXES SHALL BE A MINIMUM 4 IN OCTAGONAL AND, WHERE REQUIRED AS OUTLET AND JUNCTION BOXES, THEY SHALL BE 4 11/16 BY 2 1/8 INCHES DEEP.
- 2.04 CONDUCTORS A. WIRE AND CABLE SHALL MEET ALL STANDARDS AND SPECIFICATIONS APPLICABLE, AND SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE NEC. INSULATED WIRE AND CABLE SHALL HAVE SIZE, TYPE OF INSULATION, VOLTAGE AND MANUFACTURER'S NAME PERMANENTLY MARKED ON OUTER COVERING AT REGULAR INTERVALS NOT EXCEEDING FOUR FEET. WIRE AND CABLE SHALL BE DELIVERED IN COMPLETE COILS OR REELS WITH IDENTIFYING TAGS, STATING SIZE, TYPE OF INSULATION, ETC.
- B. WIRE AND CABLE SHALL BE SUITABLY PROTECTED FROM WEATHER AND OTHER DAMAGE DURING STORAGE AND HANDLING, AND SHALL BE IN FIRST CLASS CONDITION AFTER INSTALLATION. C. ALL CONDUCTORS SHALL BE RATED 600 VOLTS, UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE
- DRAWINGS, OR FOR ELECTRONIC OR COMMUNICATION USE. D. WIRE AND CABLE FOR VARIOUS APPLICATIONS SHALL BE AS FOLLOWS UNLESS OTHERWISE
- DESIGNATED: 1. CONDUCTORS #10 AND SMALLER SHALL BE SOLID.
- 2. CONDUCTORS #12 THRU #6 DRY LOCATIONS: TYPE THWN, 90 DEGREES C. E. WIRE AND CABLE SHALL BE FACTORY COLOR CODED WITH A SEPARATE COLOR FOR EACH PHASE AND NEUTRAL USED CONSISTENTLY THROUGHOUT THE SYSTEM. COLOR CODING SHALL BE AS FOLLOWS:
- PHASE A RED PHASE B - BLUE
- PHASE C BLACK
- **NEUTRAL WHITE**
- **GROUND GREEN**
- F. WIRE AND CABLE SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, ANACONDA WIRE & CABLE. ROME CABLE, TRIANGLE CONDUIT & CABLE, OR APPROVED EQUAL SUBSTITUTION OF WIRE AND CABLE MANUFACTURER SHALL BE ONLY WITH THE APPROVAL OF THE ENGINEER.
- G. FOR ANY SPECIFIC USE NOT COVERED HERE ABOVE, COMPLY WITH THE NEC IN CONDUCTOR USE. H. EXCEPT AS SPECIFICALLY DESIGNATED OTHERWISE, NO WIRE SMALLER THAN #12 AWG COPPER SHALL BE USED. GENERALLY, ALL WIRE AND CABLE SIZES ARE SHOWN, EITHER DIRECTLY OR BY IMPLICATION, NO MARKING SHALL DESIGNATE 2#12. FOR BRANCH CIRCUITS WITH LENGTHS EXCEEDING 50 FEET THE CONDUCTOR SIZE SHALL BE INCREASE ONE STANDARD SIZE (I.E. - #12 INCREASED TO #10).
- I. ALUMINUM OR COPPER CLAD ALUMINUM SHALL NOT BE USED UNLESS OTHERWISE DEPICTED ON THE DRAWINGS. 2.05 CONDUIT
- A. GENERAL: PROVIDE METAL CONDUIT, TUBING AND FITTINGS OF TYPE, GRADE, SIZE AND WEIGHT (WALL THICKNESS) INDICATED FOR EACH SERVICE. WHERE TYPE AND GRADE ARE NOT INDICATED, PROVIDE PROPER SELECTION DETERMINED BY INSTALLER TO FULFILL WIRING REQUIREMENTS AND COMPLY WITH NATIONAL ELECTRICAL CODE FOR ELECTRICAL RACEWAYS.
- B. ELECTRICAL METALLIC TUBING (EMT): CONDUIT SHALL BE ZINC COATED STEEL ELECTRICAL METALLIC TUBING CONFORMING TO FEDERAL SPECIFICATION WW-C-563 AND ANSI C80.3. ALL FITTINGS SHALL BE COMPRESSION TYPE, NOT SCREW TYPE.
- C. FLEXIBLE METAL CONDUIT: CONDUIT SHALL BE MANUFACTURED OF HEAVILY ZINC COATED SHEET METAL STRIPS INTERLOCKED TO FORM A FLEXIBLE. SMOOTH WIRING CHANNEL
- D. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED FOR BRANCH CIRCUITS AND RACEWAYS OTHER THAN FOR SERVICE ENTRANCE UNLESS PROHIBITED BY THE NEC OR LOCAL ORDINANCES.

- USING 3/4 INCH MINIMUM CONDUIT.
- THROUGHOUT THE SYSTEM
- LIMITATIONS.
- LINES, USING CONDUIT FITTINGS FOR ALL TURNS AND OFFSETS.
- AT THE END OF EACH STRAIGHT RUN TERMINATING AT A BOX OR CABINET. 2.06 CONDUIT FITTINGS

- 2.07 GEAR PROHIBITED
- SYMMETRICA
- DRAWINGS OR PANELBOARD SCHEDULES, BUT NOT LESS THAN 14,000 AMPERES RMS SYMMETRICAL
- PANEL FOR WHICH IT IS BEING INSTALLED.
- PART 3 EXECUTION
- MANNER ACCEPTABLE TO THE INSTALLER
- 3.03 PULL, JUNCTION, OUTLET AND SWITCH BOXES
- PURPOSES.
- BEEN REMOVED.
- WIRING.
- BUSHING ON THE ROUNDED SURFACES.
- 3.04 CONDUCTORS AND CONDUIT
- NEC, BUT IN NO CASE LESS THAN SIX (6) TIMES CONDUIT DIAMETER.
- REMOVED FROM THE PREMISES UPON NOTICE.
- SPECIFICALLY FOR CONDUIT BENDING.
- OF CABLES WITHIN RACEWAYS.
- SUBJECTED TO MOVEMENT AND VIBRATION.
- MALLEABLE IRON CONDUIT CLAMPS, OR CONDUIT SUPPORTS SIMILAR TO THOSE OF STEEL
- CITY ELECTRIC COMPANY OR UNISTRUT CORPORATION. AND INSTALLED AS REQUIRED BY THE DRAWINGS
- DRAWINGS. RACEWAY
- DETERIORATE CONDUCTOR AND INSULATION. THE RACEWAY.
- 5. KEEP CONDUCTOR SPLICES TO A MINIMUM.
- SUCH AS THE POURING OF CONCRETE.
- AND INSULATION AS THE CONDUCTOR.
- MATERIAL.

- PULL WIRE OR NYLON PULLCORD LEFT IN PLACE FOR FUTURE USE.

WHETHER IT BE IN USE OR LEFT FOR FUTURE USE. END OF SECTION 260500

E. CONDUIT SIZES SHALL BE AS INDICATED ON THE DRAWINGS OR MINIMUM IN ACCORDANCE WITH THE NEC, INCLUDING PROVISION FOR GREEN EQUIPMENT GROUNDING CONDUCTOR

F. CONDUIT SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST LOCALLY ENFORCED EDITION OF THE NEC AND SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. G. THE ENTIRE CONDUIT SYSTEM SHALL BE INSTALLED TO PROVIDE A CONTINUOUS BOND

H. ALL CONDUIT JOINTS SHALL BE CUT SQUARE, THREADED, REAMED SMOOTH, AND DRAWN UP TIGHT. BENDS OR OFFSETS SHALL BE MADE WITH AN APPROVED BENDER OR HICKEY, OR HUB-TYPE CONDUIT FITTINGS. NUMBER OF BENDS PER RUN SHALL CONFORM TO THE NEC

I. CONCEALED CONDUITS SHALL BE RUN IN A DIRECT LINE WITH LONG SWEEP BENDS AND OFFSETS. EXPOSED CONDUITS SHALL BE PARALLEL TO AND AT RIGHT ANGLES TO BUILDING

J. EXPOSED CONDUITS SHALL BE SECURELY FASTENED IN PLACE ON INTERVALS AS SET FORTH IN THE NEC; HANGERS, SUPPORTS OR FASTENERS SHALL BE PROVIDED AT EACH ELBOW AND

A. CONDUIT FITTINGS SHALL BE CAST ALUMINUM ALLOY OR CAST FERROUS ALLOY, GALVANIZED, AND SHALL BE UL APPROVED. POT METAL FITTINGS SHALL NOT BE ALLOWED B. ELECTRICAL METALLIC TUBING (EMT) FITTING SHALL BE UL APPROVED, GALVANIZED INSIDE AND OUTSIDE, COMPLYING WITH ASA C-80.3, OF THE PRESSURE CONNECTED TYPE FOR EXTERIOR INSTALLATION AND OF THE SET SCREW TYPE FOR INTERIOR INSTALLATION. C. FITTINGS SHALL BE AS MANUFACTURED BY CROUSE HINDS, APPLETON OR T & B.

A. ALL SWITCHGEAR AND PANELBOARDS SHALL BE FULLY RATED, SERIES RATED ARE

B. PANELBOARDS RATED 240 VAC OR LESS SHALL HAVE SHORT-CIRCUIT RATINGS AS SHOWN ON THE DRAWINGS OR PANELBOARD SCHEDULES, BUT NOT LESS THAN 10,000 AMPERES RMS

C. PANELBOARDS RATED 480 VAC SHALL HAVE SHORT-CIRCUIT RATINGS AS SHOWN ON THE

D. CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS THE SWITCHBOARD OR

3.01 INSPECTION: INSTALLER MUST EXAMINE THE AREAS AND CONDITIONS UNDER WHICH ELECTRICAL WORK IS TO BE INSTALLED AND NOTIFY THE CONTRACTOR IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A

3.02 ELECTRICAL INSTALLATIONS: INSTALL ELECTRICAL EQUIPMENT FOR THIS PROJECT AS INDICATED, IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, THE APPLICABLE REQUIREMENTS OF NEC AND THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION'S "STANDARD OF INSTALLATION", AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THE INTENDED FUNCTIONS.

A. INSTALL ELECTRICAL BOXES AS INDICATED, OR IN COMPLIANCE WITH NEC REQUIREMENTS, IN ACCORDANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT THE BOXES AND FITTINGS SERVE THE INTENDED

B. PROVIDE KNOCKOUT CLOSURES TO CAP UNUSED KNOCKOUT HOLES WHERE BLANKS HAVE

C. LOCATE BOXES AND CONDUIT BODIES SO AS TO ENSURE ACCESSIBILITY OF ELECTRICAL

D. AVOID USING ROUND BOXES WHERE CONDUIT MUST ENTER BOX THROUGH SIDE OF BOX, WHICH WOULD RESULT IN A DIFFICULT AND INSECURE CONNECTION WITH A LOCKNUT OR

E. SECURE BOXES RIGIDLY TO THE SUBSTRATE UPON WHICH THEY ARE BEING MOUNTED.

A. CONDUIT INSTALLATION: CONDUIT SIZES, TYPE AND LENGTH SHALL BE FURNISHED AND INSTALLED AS REQUIRED BY THE DRAWINGS AND AS SPECIFIED IN THESE SPECIFICATIONS THE DRAWINGS INDICATE GENERALLY THE SIZE AND LOCATION OF THE CONDUITS. CONDUITS NOT SHOWN BUT OBVIOUSLY REQUIRED SHALL BE RUN WHERE DIRECTED, OF SIZES AS APPROVED BY THE ENGINEER. THE CONDUIT SYSTEM SHALL CONNECT ALL OUTLET BOXES, JUNCTION BOXES, PANELBOARDS, CABINETS, PUSH BUTTON STATIONS, MOTORS, ETC. 1. FIELD BENDS AND OFFSETS SHALL BE UNIFORM AND SYMMETRICAL, WITHOUT CONDUIT FLATTENING OR FINISH SCARRING. MINIMUM BEND RADII SHALL BE AS REQUIRED BY THE

2. CONDUIT FOUND UNACCEPTABLE WHILE ON THE JOB BEFORE INSTALLATION SHALL BE

3. FIELD BENDS SHALL BE MADE WITH STANDARD TOOLS AND EQUIPMENT MANUFACTURED

4. COMPLETE THE INSTALLATION OF ELECTRICAL RACEWAYS BEFORE STARTING INSTALLATION

5. PROVIDE FLEXIBLE CONDUIT FOR ELECTRICAL EQUIPMENT CONNECTIONS WHERE

6. WHERE POSSIBLE. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER AND STEAM PIPING. 7. EXPOSED CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO MEMBERS OF THE BUILDING STRUCTURE, RIGIDLY MAINTAINED CONDUIT AND CLAMPED WITH ONE HOLE

B. CONDUCTOR INSTALLATION: CONDUCTOR SIZES, TYPE AND QUANTITY SHALL BE FURNISHED

1. ALL WIRING SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE PROVISION OF THE NATIONAL ELECTRICAL. CODE AND AS SPECIFIED HEREIN AND SHOWN ON THE

2. PULL CONDUCTORS TOGETHER WHERE MORE THAN ONE IS BEING INSTALLED IN A

3. USE PULLING COMPOUND OR LUBRICANT, WHEN NECESSARY: COMPOUND MUST NOT

4. DO NOT USE A PULLING MEANS, INCLUDING FISH TAPE, CABLE OR ROPE WHICH CAN DAMAGE

6. WIRE SHALL BE INSTALLED ONLY AFTER ALL WORK THAT MAY CAUSE INJURY IS COMPLETED,

7. INSTALL SPLICES AND TAPS WHICH HAVE EQUIVALENT OR BETTER MECHANICAL STRENGTH 8. USE SPLICE AND TAP CONNECTORS WHICH ARE COMPATIBLE WITH THE CONDUCTOR

9. WIRE MARKING: WIRES SHALL BE IDENTIFIED AT THE FOLLOWING LOCATIONS: POWER AND

LIGHTING BRANCH CIRCUITS AND FEEDERS AT FIXTURES, OUTLETS, MOTORS, ETC. IDENTIFY TO INDICATE ORIGINATING PANEL AND CIRCUIT NUMBER. 10. INSTALL CONDUCTORS IN ALL RACEWAYS AS REQUIRED, UNLESS OTHERWISE NOTED, IN A

NEAT AND WORKMANLIKE MANNER. ALL EMPTY CONDUITS SHALL HAVE A #14 GALVANIZED

11. CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH THE NEC

12. AT LEAST EIGHT (8) INCHES OF SLACK WIRE SHALL BE LEFT IN EVERY OUTLET BOX

SECTION 265000

PART 1 -- GENERAL LIGHTING

- 1.01 RELATED DOCUMENTS A. ALL WORK PERFORMED UNDER THE REQUIREMENTS OF THIS SECTION SHALL BE SUBJECT TO THE CONDITIONS SET FORTH UNDER "GENERAL CONDITIONS"- AND SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED UNDER DIVISION 1, "GENERAL REQUIREMENTS" AS FAR AS APPLICABLE TO THIS PORTION OF THE WORK.
- B. ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 260100 "ELECTRICAL GENERAL PROVISIONS" AND 260500 "BASIC MATERIALS AND METHODS", 1.02 CONTENTS
- A. SPECIFIED HEREIN: REQUIREMENTS FOR INSTALLATION OF INTERIOR AND EXTERIOR EQUIPMENT
- B. DESCRIBED HEREIN ARE THE FOLLOWING:
- 1. LIGHTING FIXTURES 2. BALLASTS
- 3. LAMPS
- 1.03 SCOPE: THE WORK SHALL COMPRISE, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING:
- A. INTERIOR LIGHTING FIXTURES.
- **B. EXTERIOR LIGHTING FIXTURES.** PART 2 -- PRODUCTS
- 2.01 LIGHTING FIXTURES, BALLASTS AND LAMPS
- A. THIS SECTION OF THE SPECIFICATIONS INCLUDES THE FURNISHING AND INSTALLATION OF LIGHTING FIXTURES AND LIGHTING EQUIPMENT FOR ALL AREAS IN THE PROJECT AS LISTED IN THE FIXTURE SCHEDULE, INCLUDING THE CONNECTION OF THE FIXTURES AND EQUIPMENT TO THE ELECTRIC WIRING OF THE FACILITY.
- B. LIGHTING FIXTURES SHALL BE OF THE TYPES, SIZES. ETC., SHOWN IN THE FIXTURE SCHEDULE AND NOTES REFERENCED HEREIN.
- C. LIGHTING FIXTURES DESCRIBED HERE ARE INTENDED TO INDICATE THE GENERAL FIXTURE TYPE, WHICH SHALL BE SUBSTANTIALLY AS SPECIFIED. IT IS NOT THE INTENT OF THIS SPECIFICATION TO REQUIRE THE PRODUCT OF ANY PARTICULAR MANUFACTURER WHOSE PRODUCT IS SPECIFIED UNLESS DEPICTED OTHERWISE ON THE DRAWINGS.
- D. THE FURNISHING AND INSTALLATION OF THE LIGHTING FIXTURES OR LIGHTING EQUIPMENT MUST BE EXECUTED IN A MANNER THAT WILL INSURE COMPLETION COINCIDENT WITH THE COMPLETION OF THE CONSTRUCTION OF THE PROJECT, UNLESS OTHERWISE REQUIRED BY THE CONTRACT SPECIFICATIONS.
- E. MATERIALS AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND IN ACCORDANCE WITH THE HIGHEST COMMERCIAL STANDARDS.
- F. AT THE ENGINEER'S REQUEST, THE CONTRACTOR SHALL SUBMIT FOR- APPROVAL ONE EACH OF ANY OF THE LIGHTING FIXTURES REQUIRED UNDER THE CONTRACT. THE FIXTURE OR FIXTURES SHALL BE TAGGED. WITH THE NAME OF THE BUILDING OR PROJECT FOR WHICH THE FIXTURE IS INTENDED AND BE SHIPPED, ALL CHARGES PREPAID, TO THE ADDRESS SPECIFIED. WHEN FIXTURE OR FIXTURES HAVE SERVED THEIR PURPOSE THEY WILL BE TURNED OVER TO THE CONTRACTOR FOR USE IN THE PROJECT. IN THE EVENT THE SUBMISSION IS DISAPPROVED, THE FIXTURES WILL BE RETURNED TO THE CONTRACTOR AND HE SHALL IMMEDIATELY MAKE NEW SUBMISSION OF FIXTURE OR FIXTURES MEETING THE CONTRACT REQUIREMENTS.
- G. ORDERING OF THE LIGHTING FIXTURES FOR THE PROJECT SHALL NOT BE COMMENCED UNTIL THE CONTRACTOR HAS RECEIVED UNQUALIFIED APPROVAL OF THE SUBMITTED SAMPLE LIGHTING FIXTURES.
- H. FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY APPURTENANCES, WIRING, LAMP HOLDERS, LAMPS, REFLECTORS, GLASSWARE, CANOPIES, WALL BASES, PENDANTS, ETC., AND SHALL BE WIRED WITH TYPE A.F. FIXTURE WIRE NOT LESS THAN NO. 14 AWG. FIXTURES SHALL CARRY U.L. LABELS.
- I. EACH BASIC FLUORESCENT FIXTURE SHALL BE EQUIPPED WITH THE NECESSARY NUMBER AND TYPE OF BALLASTS TO OPERATE ONLY THE LAMPS WITHIN THE PARTICULAR BASIC UNIT. SINGLE--LAMP FIXTURES SHALL CONTAIN ONE SINGLE--LAMP BALLAST; TWO--LAMP FIXTURES SHALL CONTAIN ONE TWO-LAMP BALLASTS; THREE--LAMP FIXTURES SHALL CONTAIN ONE TWO--LAMP BALLAST AND ONE SINGLE LAMP BALLAST OR ONE THREE--LAMP BALLAST; AND FOUR--LAMP FIXTURES SHALL CONTAIN TWO 2--LAMP BALLASTS OR ONE 4--LAMP BALLAST, AS NECESSARY FOR SWITCHING REQUIREMENTS (REFER TO DRAWINGS). BASIC FLUORESCENT FIXTURES CONTAINING THREE OR FOUR LAMPS SHALL BE INTERNALLY WIRED TO HAVE THE TWO OUTER LAMPS OPERATED BY A COMMON BALLAST AND THE CENTER LAMP OR LAMPS OPERATED BY THE REMAINING BALLAST. J. LAMPS
- 1. ALL LIGHTING FIXTURES SHALL BE LAMPED AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE. LAMPS SHALL BE THOSE MANUFACTURED BY PHILLIPS LIGHTING, GE, OR SYLVANIA.
- 2. ALL LINEAR FLUORESCENT LAMPS SHALL BE 1" (T8) IN DIAMETER WITH 3500'K SURFACE TEMPERATURES AND WITH A COLOR RENDERING INDEX (CRT) OF 85 UNLESS OTHERWISE DEPICTED ON THE DRAWINGS.
- 3. ONLY THE NUMBER OF LAMPS REQUIRED TO PROVIDE ADEQUATE LIGHTING FOR WORK YET TO BE DONE IN EACH AREA, AND ACCEPTABLE TEMPORARY LIGHTING ELSEWHERE (BOTH AS DETERMINED BY THE ENGINEER) SHALL BE INSTALLED BY THIS CONTRACTOR AT THE TIME LIGHTING FIXTURES ARE INSTALLED AND TESTED. REMAINING LAMPS ARE TO BE INSTALLED NOT MORE THAN TEN (10) DAYS PRIOR TO ACCEPTANCE OF THE PROJECT BY THE OWNER.
- 4. ALL LAMPS SHALL BE IN WORKING ORDER AT THE TIME OF FINAL ACCEPTANCE OF THE WORK BY THE OWNER AND THE ENGINEER. THIS CONTRACTOR SHALL REPLACE ALL DEFECTIVE LAMPS WITH NEW LAMPS UNTIL THE WORK IS FINALLY ACCEPTED. 5. PROVIDE ALL LAMPS, PLUS FIVE PERCENT SPARES FOR EACH TYPE REQUIRED UNLESS
- DEPICTED OTHERWISE ON THE DRAWINGS. K. LIGHTING FIXTURES SHALL BE AS CATALOGED ON THE FIXTURE SCHEDULE.
- PART 3 -- EXECUTION A. INSTALL LIGHTING FIXTURES TO TYPES INDICATED, WHERE SHOWN AND AT INDICATED
- HEIGHTS, IN ACCORDANCE WITH LIGHTING FIXTURE MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES. TO ENSURE THAT FIXTURES COMPLY WITH REQUIREMENTS AND SERVE INTENDED PURPOSES. COMPLY WITH NEMA STANDARDS AND REQUIREMENTS OF NATIONAL ELECTRICAL CODE PERTAINING TO INSTALLATION OF INTERIOR LIGHTING FIXTURES AND WITH APPLICABLE PORTIONS OF NECA'S "STANDARD OF INSTALLATION".
- B. FASTEN FIXTURES SECURELY TO STRUCTURAL SUPPORT MEMBER AND CHECK TO ENSURE THAT SOLID PENDENT FIXTURES ARE PLUMB. C. RECESSED GRID FIXTURES SHALL NOT BE SUPPORTED FROM THE LAY-IN CEILING SYSTEM.
- SUPPORT WIRES CONFORMING TO THE NEC SHALL BE INSTALLED. D. WIRING TO LAY-IN TYPE FIXTURES SHALL BE ARRANGED TO FACILITATE RELOCATION OF
- THE FIXTURE TO THE ADJACENT CEILING TILE IN ANY DIRECTION. E. CLEAN INTERIOR LIGHTING FIXTURES OF DIRT AND DEBRIS UPON COMPLETION OF
- INSTALLATION. F. PROTECT INSTALLED FIXTURES FROM DAMAGE DURING REMAINDER OF CONSTRUCTION PERIOD.
- G. UPON COMPLETION OF INSTALLATION OF INTERIOR LIGHTING FIXTURES, AND AFTER BUILDING CIRCUITRY HAS BEEN ENERGIZED, APPLY ELECTRICAL ENERGY TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH REQUIREMENTS. WHERE POSSIBLE, CORRECT MALFUNCTIONING UNITS AT SITE, THEN RETEST TO DEMONSTRATE COMPLIANCE,
- OTHERWISE, REMOVE AND REPLACE WITH NEW UNITS AND PROCEED WITH RETESTING. H. AT DATE OF SUBSTANTIAL COMPLETION, REPLACE LAMPS IN INTERIOR LIGHTING FIXTURES WHICH ARE OBSERVED TO BE NOTICEABLY DIMMED AFTER CONTRACTOR'S USE AND TESTING, AS JUDGED BY THE ENGINEER. FURNISH STOCK OR REPLACEMENT LAMPS AMOUNTING TO 5% (BUT NOT LESS THAN ONE LAMP IN EACH CASE) OF EACH TYPE AND SIZE LAMP USED IN EACH TYPE FIXTURE. DELIVER REPLACEMENT STOCK AS DIRECTED TO OWNER'S STORAGE SPACE. END OF SECTION 265000

1.02 CONTENTS RELATED CODES.

SECTION 260128

PART 1 - GENERAL 1.01 RELATED DOCUMENTS

A. ALL WORK PERFORMED UNDER THE REQUIREMENTS OF THIS SECTION SHALL BE SUBJECT TO THE CONDITIONS SET FORTH UNDER "GENERAL CONDITIONS" AND SHALL COMPLY WITH ALL REQUIREMENTS CONTAINED UNDER DIVISION 1, "GENERAL REQUIREMENTS" AS FAR AS APPLICABLE TO THIS PORTION OF THE WORK. B. ALL WORK UNDER THIS SECTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN SECTION 260100 "ELECTRICAL GENERAL PROVISIONS".

A. SPECIFIED HEREIN: ALTERNATIVE CONDUCTOR INSTALLATION METHODS AND REQUIRED RACEWAY INSTALLATION METHODS

1.03 ALTERNATIVE CONDUCTOR INSTALLATION METHODS A. CONTRACTOR MAY INSTALL MC, NM, OR AC CABLE AS PERMITTED BY THE AHJ

WHERE APPROPRIATE AND PERMITTED BY THE NEC. B. WHERE ALLOWED BY THE NEC AND AHJ, CONTRACTOR MAY SUBSTITUTE SUPERIOR

CONDUCTOR INSULATION TYPES AT NO ADDITIONAL COST TO THE PROJECT, E.G. CONTRACTOR MAY SUBSTITUTE XHHW WHERE THWN IS SPECIFIED. C. CONTRACTOR SHALL SUBMIT A LIST OR DRAWING OF THE ALTERNATE INSTALLATION

METHOD TO THE OWNER FOR PRIOR APPROVAL. D. ANY AND ALL ALTERNATIVE INSTALLATIONS SHALL COMPLY WITH THE NEC AND

1.04 REQUIRED RACEWAY INSTALLATION METHODS

A. WHERE NON METALLIC RACEWAY IN A TRENCH OVER 100 FEET IS TO BE INSTALLED: 1.CONTRACTOR SHALL NOT COVER RACEWAY WITH ANY MATERIAL IF THE SUN IS ILLUMINATING THE RACEWAY OR THE TEMPERATURE IS ABOVE 80F. SECURING OR COVERING THE RACEWAY MAY CAUSE JOINT FAILURE WHEN THE RACEWAY FREEZES IN WINTER

2. CONTRACTOR MAY SPOT COVER THE RACEWAY EVERY 10 FEET WITH A SINGLE SHOVEL OF MATERIAL TO PREVENT MOVEMENT DURING INSTALLATION. 3. CONTRACTOR SHALL WAIT 1 HOUR AFTER ALL OF THE RACEWAY IS SHADED AND THE AMBIENT TEMPERATURE IS BELOW 80F TO COVER OR SECURE THE

RACEWAY END OF SECTION 260128



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FRUITA CIVIC CENTER - OFFICE REMODEL

FRUITA, COLORADO

SPECIFICATIONS

NO:

ISSUED FOR:

DATE

PROJECT STATUS: CONSTRUCTION DOCUMENTS

DATE: 11/07/2022

SHEET NO:

