Orange County Coalition For The Homeless
Deficiency Repairs

CONSTRUCTION DOCUMENTS

May 30, 2017

Orange County Government

Capital Planning Division

400 East South Street, Suite 500
Orlando, FL 32801

BOARD OF COUNTY COMMISSIONERS

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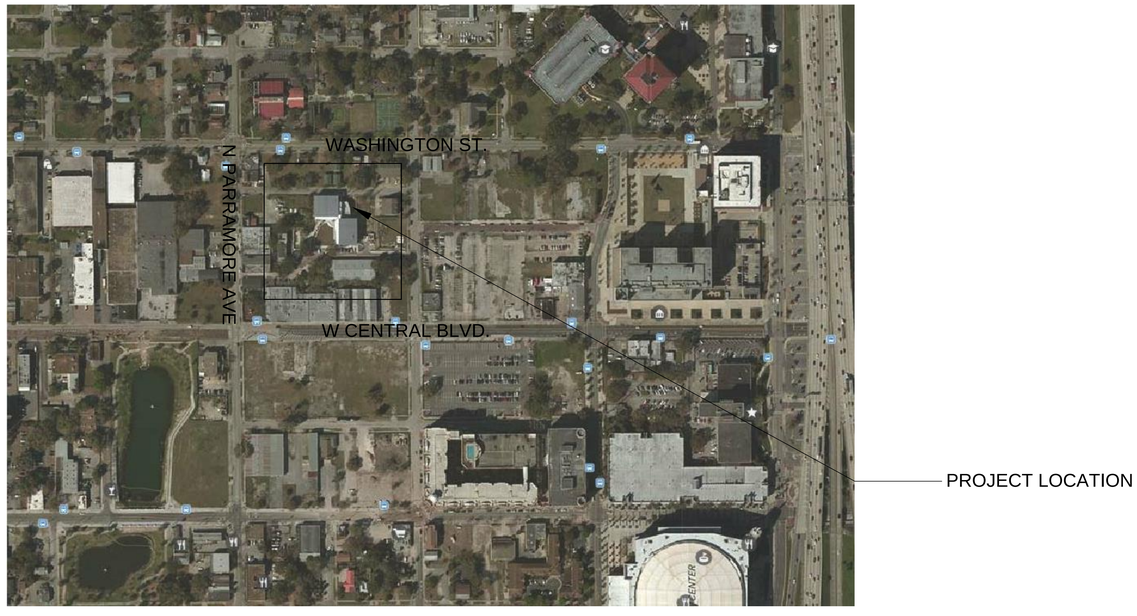

KEY PLAN

rhodes + brito
ARCHITECTS

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PROJECT DESIGN TEAM

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Carl Shea, RA, AIA Fl. Reg. No AR0017148										

PROFESSIONAL SEALS

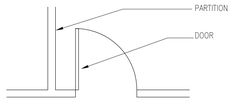
DIMENSIONING

1. WHEN A ROOM/BUILDING/OBJECT CENTERLINE IS INDICATED, ONLY ONE SIDE OF ELEMENT MAY BE DIMENSIONED

2. DOOR LOCATION

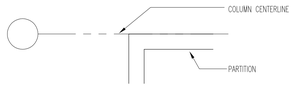
   DOORS ARE LOCATED BY ONE OF THE FOLLOWING:

   A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE.

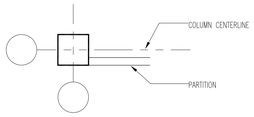


   B. AS DIMENSIONED

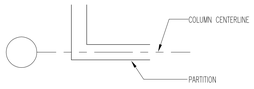
3. PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



4. PARTITIONS WITH FINISH FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DRAWN ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.



5. PARTITIONS CENTERED ON COLUMNS OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.

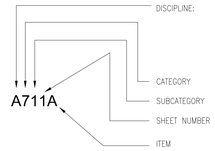


6. PARTITIONS ARE DIMENSIONED TO FACE OF STUDS, FACE OF CMU AND FACE OF BLOCK UNLESS INDICATED OTHERWISE

7. DIMENSIONS ARE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS

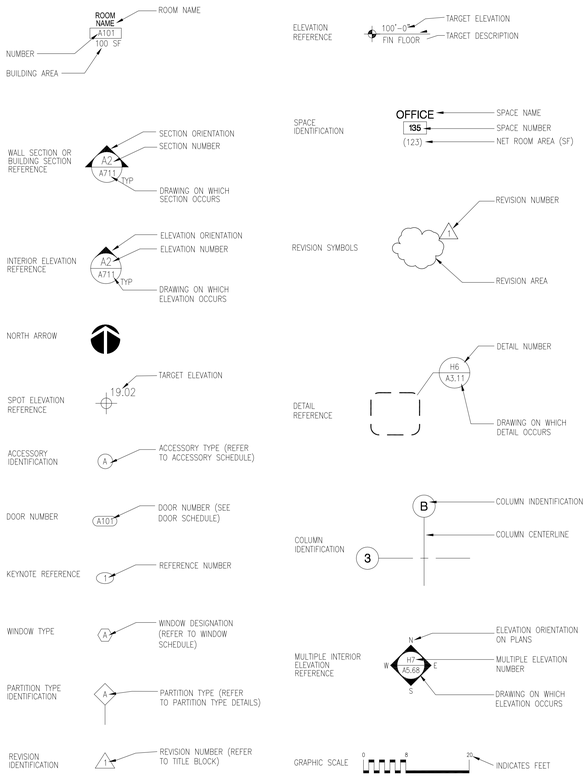
DRAWING SYMBOL LEGEND

DRAWING SHEET NUMBERS

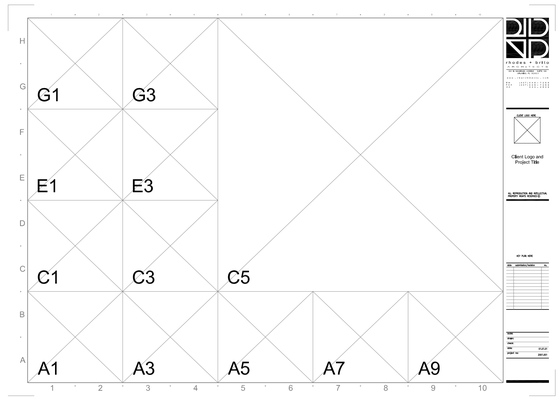


C – Civil
S – Structural
A – Architectural
M – HVAC
P – Plumbing
E – Electrical
L – Landscape

ROOM SPACE IDENTIFICATION NOTATION



DRAWING FORMAT



EACH SHEET IS DIVIDED INTO A GRID. AN ALPHA–NUMERIC GRID COORDINATE SYSTEM IS USED TO ORGANIZE THE DRAWING TITLES

DRAWING TITLES ARE NUMBERED ACCORDING TO ITS LOCATION ON THE GRID. THE LOWER LEFT HAND CORNER GRID OF THE DRAWING IS USED AS THE IDENTIFICATION NUMBER (SEE DIAGRAM).

DRAWING INDEX

General

CS001	COVER SHEET
G001	DRAWING GUIDE, ABBREVIATIONS & LEGENDS
G002	SCOPE OF WORK 1ST FLOOR
G003	SCOPE OF WORK 2ND FLOOR
G101	LIFE SAFETY PLAN – 1ST FLOOR

Architecture

A0101	ENLARGED DEMOLITION PLANS
A101	ENLARGED FLOOR PLANS AND DETAILS
A102	ENLARGED FLOOR PLANS AND DETAILS
A701	DOOR SCHEDULE AND PARTITION TYPES

Civil

C–100	EXISTING SURVEY
C–101	DEMOLITION AND EROSION CONTROL
C–300	GRADING PLAN

Mechanical

M0.01	GENERAL NOTES, LEGENDS AND ABBREVIATIONS
M1.01	MECHANICAL PLANS
M2.01	MECHANICAL DETAILS

Electrical

E0.1	GENERAL NOTES, LEGENDS AND ELECTRICAL PLANS
E1.00	ELECTRICAL POWER PLANS
E2.00	ELECTRICAL SCHEDULES AND RISER DIAGRAM

Code Information

1. FLORIDA BUILDING CODE (FBC), 2014 EDITION AND AMENDMENTS
2. FLORIDA ACCESSIBILITY CODE (FAC), 2014 EDITION
3. FLORIDA FIRE PREVENTION CODE (FFPC), 2014, 5TH EDITION
4. CODE OF THE CITY OF ORLANDO, DECEMBER 2016 EDITION

OTHER APPLICABLE CODES CRITERIA, BUT NOT LIMITED TO THE FOLLOWING:
1. NFPA 1 UNIFORM FIRE CODE, 2012 EDITION AS MODIFIED BY FFPC
2. NFPA 70 NATIONAL ELECTRICAL CODE, 2008 EDITION
3. NFPA 72 NATIONAL FIRE ALARM CODE, 2013 EDITION
4. NFPA 80 STANDARD FOR FIRE DOORS AND FIRE WINDOWS, 2013 EDITION
5. NFPA 101 LIFE SAFETY CODE (LSC), 2012 EDITION AS MODIFIED BY FFPC

Occupancy Load and Means Of Egress

1. THIS PROJECT IS A REPAIR OF EXISTING DOOR HARDWARE, ENCLOSURE OF AN EXTERIOR VESTIBULE AND RELATED SIDEWALK WORK, AND VARIOUS OTHER MISC. REPAIRS.
2. THIS PROJECT DOES NOT ALTER EXISTING OCCUPANCY LOAD AND MEANS OF EGRESS.

Building Information (EXISTING)

CONSTRUCTION TYPE	TYPE II–B (SPRINKLERED)
ALLOWABLE HEIGHT	2 STORY (BASED ON A–2)
ALLOWABLE AREA	19,000 SF PER STORY (BASED on A–2)
OCCUPANCY CLASSIFICATION	PRIMARY – INSTITUTIONAL (I–1)
	SECONDARY – BUSINESS, ASSEMBLY (A–2)

LIST OF ABBREVIATIONS

AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
AC	ACOUSTICAL
ACC	ACCESS
ACPL	ACOUSTICAL PLASTER
ACT	ACOUSTICAL TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADD'D	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANC	ANCHOR(AGE)
ANOD	ANODIZED
AP	ACCESS PANEL
APROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
A/V	AUDIO VISUAL
BD	BOARD
BEL	BELOW
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLK(G)	BLOCK(ING)
BM	BENCH MARK
BO	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BRG PL	BEARING PLATE
BRK	BRICK
BS	BOTH SIDES
BSL	BUILDING SETBACK LINE
BSMT	BASEMENT
BUR	BUILT UP ROOFING
BVL	BEVELED
BW	BOTH WAYS
CAB	CABINET
CAT	CATEGORY
CB	CAST BASIN
C/C	CENTER TO CENTER
CFT	CUBIC FOOT
CG	CORNER GUARD
CHAM	CHAMFER
CHT	CEILING HEIGHT
CI	CAST IRON
CIP	CAST–IN–PLACE
CIR	CIRCLE
CJ	CONTROL JOINT
CK	CAULK
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR(ANCE)
CLS	CLOSURE
CMU	CONC MASONRY UNIT
CNTR	CENTER
CNTRSNK	COUNTERSINK
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
COMPT	COMPARTMENT
CORR	CORRUGATED
CP	CENTER POINT
CR	CHROMIUM (PLATED)
CRS	COURSE(S)
CSMT	CASEMENT
CT	CERAMIC TILE
CYD	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH, DEMOLITION
DEP	DEPRESSED
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV DR	DIVISION DOOR
DL	DEAD LOAD
DN	DOWN
DP	DAMP PROOFING
DR	DOOR
DRB	DRAIN BOARD
DS	DOWN SPOUT
DTL	DETAIL
DWG	DRAWING
DWR	DRAWER
E	EAST
EA	EACH
EB	EXPANSION BOLT
EIFS	EXTERIOR INSULATION & FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSE(URE)
ENGR	ENGINEER
EP	ELECTRICAL POWERBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ESC	ESCALATOR
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPANDED(EXPANSION)
EXT	EXTERIOR
FA	FIRE ALARM
FAS	FASTEN, FASTENER
FB	FACE BRICK
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FFE	FINISHED FLOOR ELEVATION
FGL	FIBERGLASS
FH	FIRE HYDRANT
FIN	FINISH(ED)
FJT	FLUSH JOINT
FLEX	FLEXIBLE
FLG	FLASHING
FLR	FLOOR
FLUOR	FLUORESCENT
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FP	FIREPROOF
FPL	FLOOR PLATE
FR	FRAME(D)(ING)
FRC	FIRE–RESISTANT COATING
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE–RETARDANT
FS	FULL SIZE
FT	FOOT
FTG	FOOTING
FUT	FUTURE
FUR	FURRING
FURN	FURNITURE/FURNISHINGS
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE
GEN'L	GENERAL
GI	GALVANIZED IRON
GKT	GASKET(ED)
GL	GLASS
GLAM	GLUE LAMINATED
GP	GALVANIZED PIPE
GSS	GALVANIZED STEEL SHEET
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
GYPBD	GYPSUM BOARD
HB	HOSE BIBB
HBD	HARDBOARD
HC	HOLLOW CORE
HD	HEAVY DUTY
HDR	HEADER
HJT	HEAD JOINT
HM	HOLLOW METAL
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HRDW	HARDWARE
HT	HEIGHT
HD. HT	HEAD HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HWD	HARDWOOD
HWH	HOT WATER HEATER
IBC	INSULATED BY CONTRACTOR
ID	INSIDE DIAMETER
INCL	INCLUDE(D)(ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IPS	IRON PIPE SIZE
JB	JUNCTION BOX
JC	JANITOR CLOSET
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KIT	KITCHEN
KO	KNOCKOUT
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	LAG BOLT
LBL	LABEL
LF	LINEAR FOOT
LH	LEFT HAND
LL	LIVE LOAD
LS	LUMP SUM
LT	LIGHT
LVL	LAMINATED VENEER LUMBER
LVR	LOUVER
M	METER
MAS	MASONRY
MAT'L	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEP	MECHANICAL/ELECTRICAL/PLUMBING
MET	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MT	METAL THRESHOLD
MTD	MOUNTED
N	NORTH
NA	NOT APPLICABLE
NGVD	NATIONAL GEODETIC VERTICAL DATUM
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC	OFFICE
OH	OVERHEAD
OH/OPH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
ORD	OVERFLOW ROOF DRAIN
OS	OUTSIDE
OV	OVERALL
PC	PRE CAST
PCC	PRE CAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PERIM	PERIMETER
PFN	PRE FINISHED
PG	PLATE GLASS
PH	PHASE
PJ	PANEL JOINT
PL	PROPERTY LINE/PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLF	POUNDS PER LINEAL FOOT
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PNTD	PAINTED
POL	POLISHED
PR	PAIR/PROPOSAL REQUEST
PREFAB	PREFABRICATE(D)
PRELIM	PRELIMINARY
PRF	PERFORMED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PRESSURE TREATED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTR	QUARTER
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D),(ING)
REM	REMOVE
REQ'D	REQUIRED
RES	RESILIENT
RET	RETURN
REV	REVISION(S),(D)
RFG	ROOFING
RFH	ROOF HATCH
RFI	REQUEST FOR INFO
RFL	REFLECT(ED),(ING)
RH	RIGHT HAND
RL	RAIN LEADER
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWC	RAIN WATER CONDUCTOR
RVS	REVERSE(SIDE)
S	SOUTH
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FOOT
SFGL	SAFETY GLASS
SG	SHEET GLASS
SH	SHELVING
SHELV	SHELVING
SHT	SHEET
SHTH	SHEATHING
SIM	SIMILAR
SJ	STEEL JOIST
SL	SLEEVE
SLR	SEALER
SOG	SLAB ON GRADE
SP	SOUND PROOF
SPCR	SPACER
SPEC	SPECIFICATION(S)
SPK	SPEAKER
SPL	SPECIAL
SQ	SQUARE
SQ/IN	SQUARE INCH
SQ/YD	SQUARE YARD
SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL
SUS	SUSPENDED
SYM	SYMMETRY(ICAL)
SYN	SYNTHETIC
SYS	SYSTEM
T	TREAD
TB	TOWEL BAR
TEL	TELEPHONE
TEMP	TEMPORARY
TER	TERRAZZO
T&G	TONGUE AND GROOVE
THK	THICK(NESS)
THRES	THRESHOLD
TLT	TOILET
TO	TOP OF
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TR	TRANSOM
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UL	UNDERWRITERS LABORATORY
UNF	UNFINISHED
UNO	UNLESS NOTED
UR	URINAL
VAT	VINYL ASBESTOS TILE
VAR	VARNISH
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
W	WEST
W/	WITH
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WG	WIRED GLASS
WH	WALL HUNG
WHB	WHEEL BUMPER
WI	WROUGHT IRON
WIN	WINDOW
WM	WIRED MESH
WO	WITHOUT
WP	WATER PROOFING
WR	WATER REPELLENT
WS	WATER STOP
WSCT	WAINSCOT
WTH	WIDTH
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC

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Deficiency Repairs

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Date
Carl Shea, RA, AIA
Fl. Reg. No. AR0017148

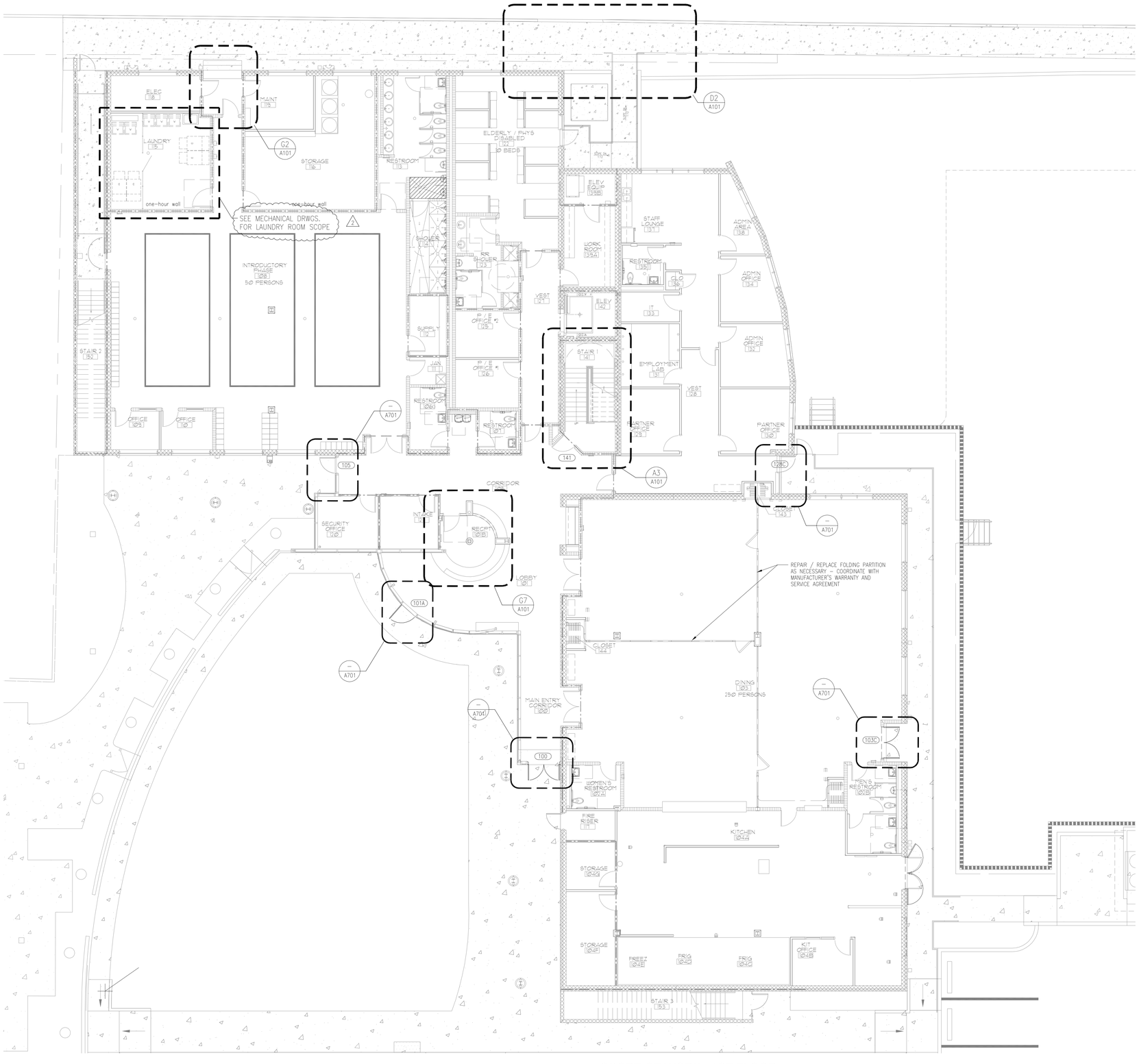
CONSTRUCTION DOCUMENTS

no.	revision	date
1	CITY COMMENTS	07/14/17

DRAWING GUIDE, ABBREVIATIONS, & LEGENDS

scale:	NTS
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

G001



A1
G002

SCOPE OF WORK - 1ST FLOOR

scale: 1/16"=1'-0"

rhodes + brito
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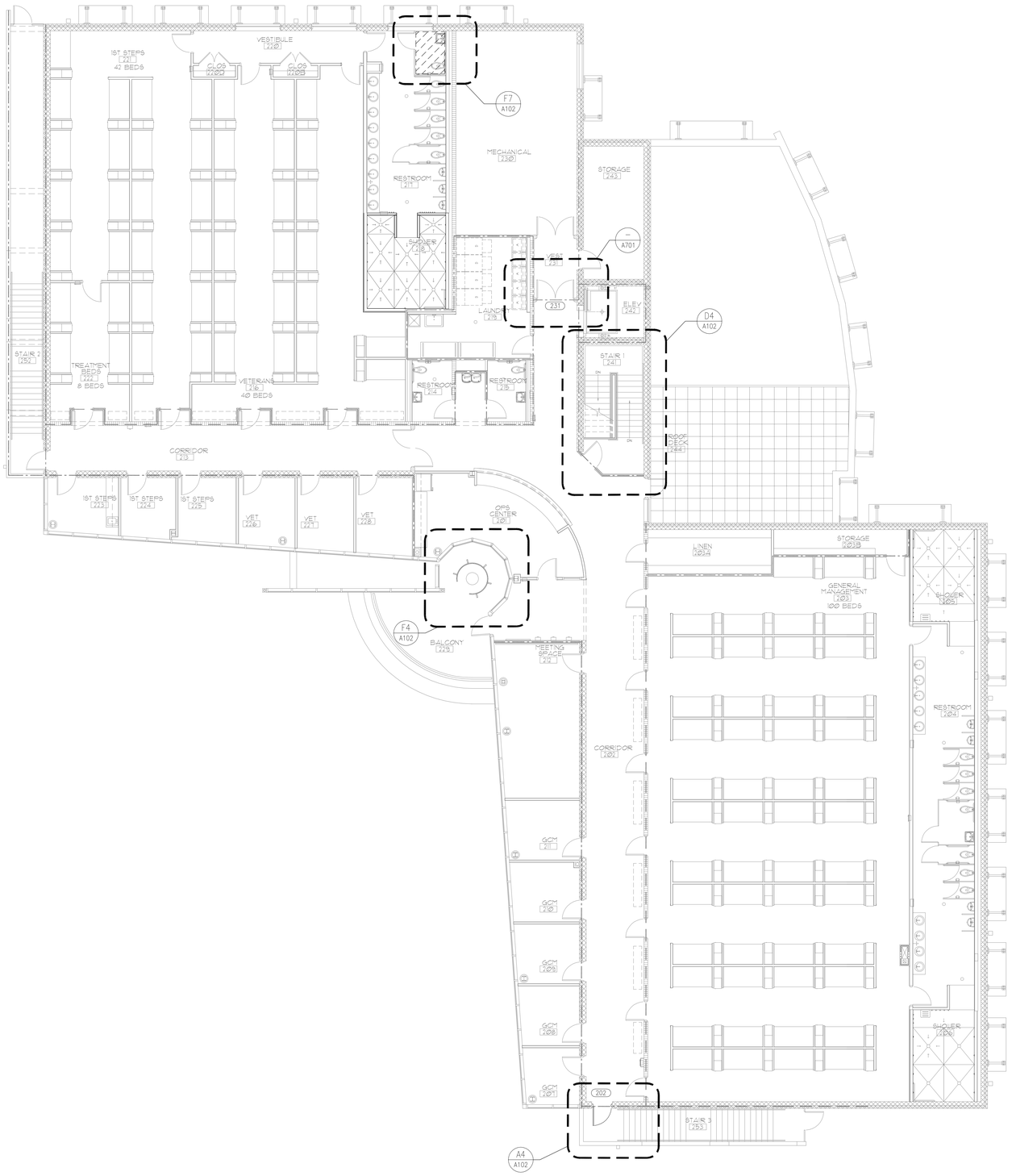
CONSTRUCTION DOCUMENTS

no.	revision	date
1	CITY COMMENTS	07/14/17
2	OWNER COMMENTS	10/10/17

SCOPE OF WORK 1ST FLOOR

scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

G002



A1
G003
SCOPE OF WORK - 2ND FLOOR
scale: 1/8"=1'-0"

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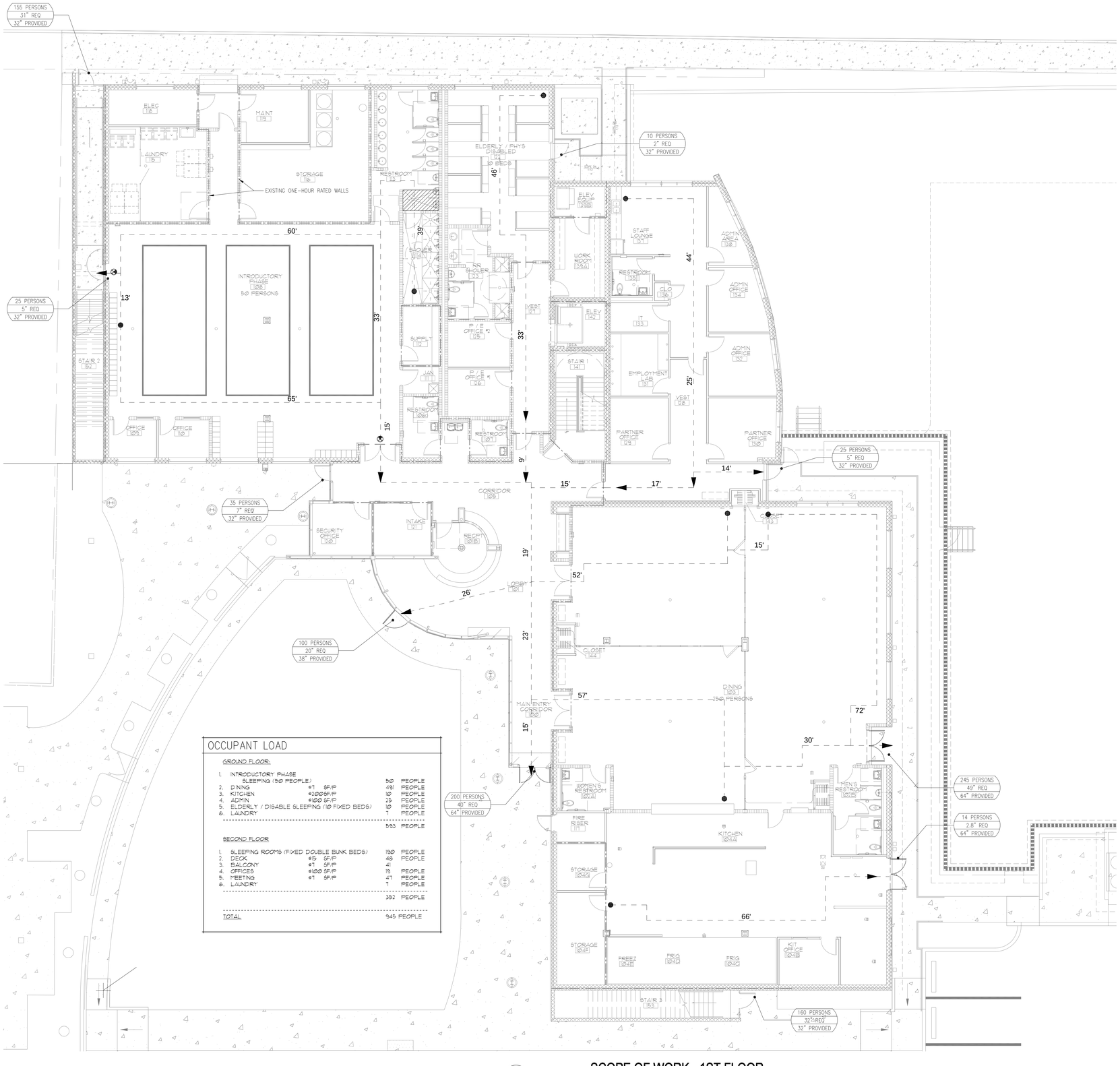
CONSTRUCTION DOCUMENTS

no.	revision	date

SCOPE OF WORK 2ND FLOOR

scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

G003



OCCUPANT LOAD

GROUND FLOOR:

1.	INTRODUCTORY PHASE SLEEPING (50 PEOPLE)		50	PEOPLE
2.	DINING	@7 SF/P	491	PEOPLE
3.	KITCHEN	@200SF/P	10	PEOPLE
4.	ADMIN	@100 SF/P	25	PEOPLE
5.	ELDERLY / DISABLE SLEEPING (10 FIXED BEDS)		10	PEOPLE
6.	LAUNDRY		7	PEOPLE
			593	PEOPLE

SECOND FLOOR

1.	SLEEPING ROOMS (FIXED DOUBLE BUNK BEDS)		180	PEOPLE
2.	DECK	@15 SF/P	48	PEOPLE
3.	BALCONY	@7 SF/P	41	
4.	OFFICES	@100 SF/P	19	PEOPLE
5.	MEETING	@7 SF/P	47	PEOPLE
6.	LAUNDRY		7	PEOPLE
			352	PEOPLE

TOTAL	945	PEOPLE

A1
G002

SCOPE OF WORK - 1ST FLOOR

scale: 1/16"=1'-0"

Occupancy Load and Means Of Egress

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	SECONDARY – BUSINESS, ASSEMBLY (A-2)

LIFE SAFETY LEGEND

	STORAGE OCCUPANCY 300 SF/ PERS
XXX SF / XXX / XXX PER	ROOM AREA OCCUPANCY LOAD FACTOR OCCUPANCY LOAD
XXXX PERSONS / XX.X" REQ / XX.X" PROVIDED	EXIT OCCUPANCY LOAD MINIMUM EXIT WIDTH REQUIRED (INCHES) PROVIDED EXIT WIDTH (INCHES)
	EXIT SIGN
	EXIT SIGN WITH DIRECTIONAL ARROW
	SEMI-RECESSED FIRE EXTINGUISHER CABINET CLASS: 2-A: 10-B: C
	RECESSED FIRE EXTINGUISHER CABINET CLASS: 2-A: 10-B: C

rhodes + brito ARCHITECTS
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FAX (407) 648 - 7289
AA0002809
www . rbarchitects . com

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Deficiency Repairs

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Date
Carl Shea, RA, AIA
Fl. Reg. No. AR0017148

CONSTRUCTION DOCUMENTS

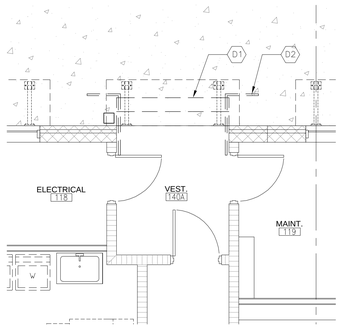
no.	revision	date
1	CITY COMMENTS	07/14/17

LIFE SAFETY PLAN 1ST FLOOR

scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

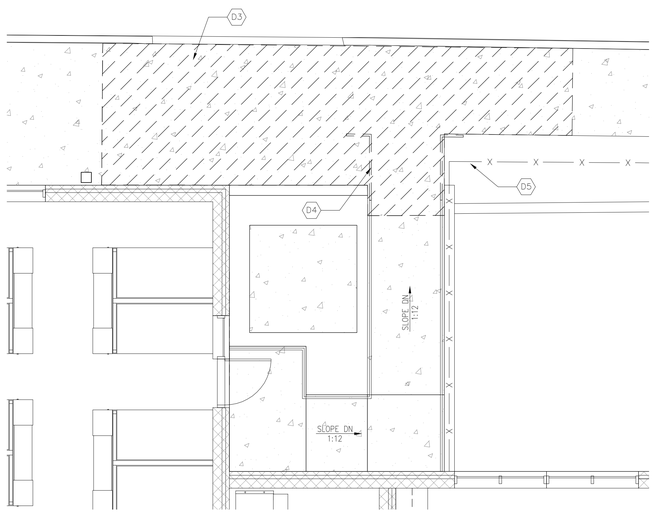
1

G101



G2 AD101 EXTERIOR VESTIBULE DEMO PLAN

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



D2 AD101 RAMP/SIDEWALK DEMO PLAN

scale: 1/8"=1'-0"

GENERAL NOTES

A. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF DEMOLITION.

B. CONFORM TO ALL APPLICABLE CODES FOR DEMOLITION OF ITEMS TO BE REMOVED.

C. IT IS THE INTENT OF THIS FACILITY TO REMAIN OPERATIONAL FOR THE DURATION OF THIS PROJECT. ENSURE SAFETY OF ALL OCCUPANTS AND ITEMS TO REMAIN: DEMOLITION OF ITEMS WHICH MAY CREATE DUST, NOISE OF CAMPUS CIRCULATION PROBLEMS SHOULD BE COORDINATED WITH OWNER PRIOR TO START OF THIS WORK.

D. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING , REFINISHING ITEMS OF EXISTING ITEMS DAMAGED.

E. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARDRAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.

F. DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED. COORDINATE DEMOLITION OF WALLS, FLOORS, SLABS, EQUIPMENT, UTILITIES, LANDSCAPING, PAVEMENT, ETC.. WITH OTHER DISCIPLINES.

G. WHEN CUTTING INTO EXISTING WALLS AND SLAB, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAIN STRUCTURAL PERFORMANCES WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.

H. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON DRAWINGS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES TO AVOID DISRUPTION OR SEVERING OF UTILITIES. CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITH OUT DEMOLITION).

DEMOLITION KEYNOTES

D1 DEMOLISH CONCRETE STAIRS

D2 REMOVE EXISTING STAIR RAILING

D3 HATCHED AREA INDICATES EXTENT OF EXISTING SIDEWALK AND CURB TO BE REMOVED

D4 MODIFY EXISTING HANDRAIL TO CUT BACK TO LENGTH INDICATED ON SHEET A101

D5 EXISTING ALUMINUM FENCE TO REMAIN.

D6 NOT USED

D7 NOT USED

D8 NOT USED

D9 NOT USED

D10 NOT USED

D11 NOT USED

DEMO LEGEND

EXISTING WALL TO REMAIN PROTECT FROM DAMAGE

EXISTING TO BE REMOVED

rhodes + brito
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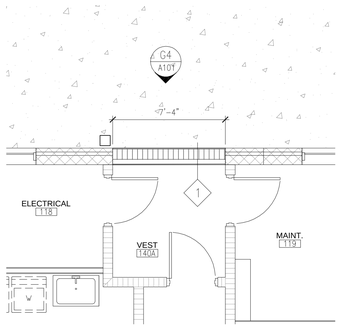
CONSTRUCTION DOCUMENTS

no.	revision	date

ENLARGED DEMOLITION PLANS

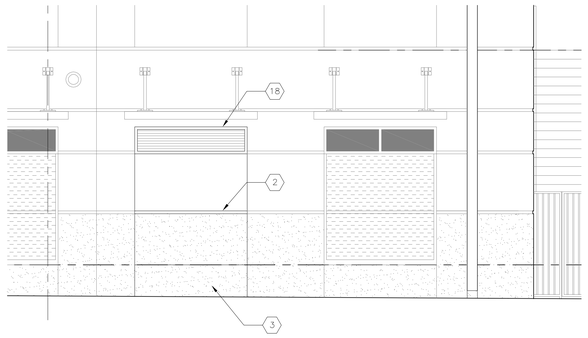
scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

AD101



G2 A101 EXTERIOR VESTIBULE FLOOR PLAN

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



G4 A101 WALL INFILL ELEV

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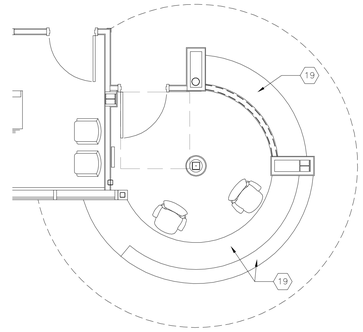
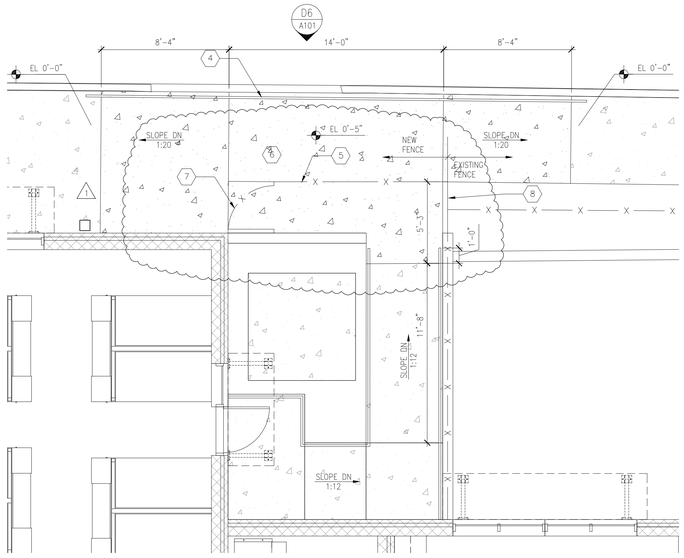


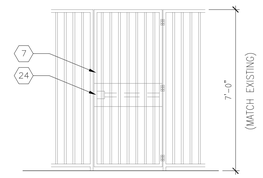
G7 A101 CONTROL DESK PLAN

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



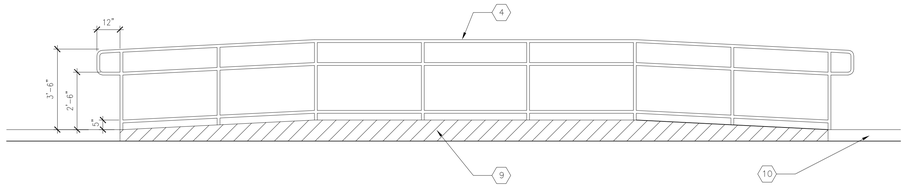
D2 A101 RAMP/SIDEWALK FLOOR PLAN

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



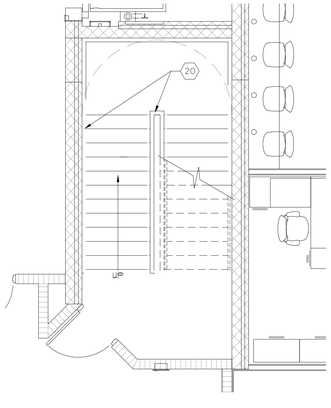
E7 A101 GATE DETAIL

scale: 3/8"=1'-0"



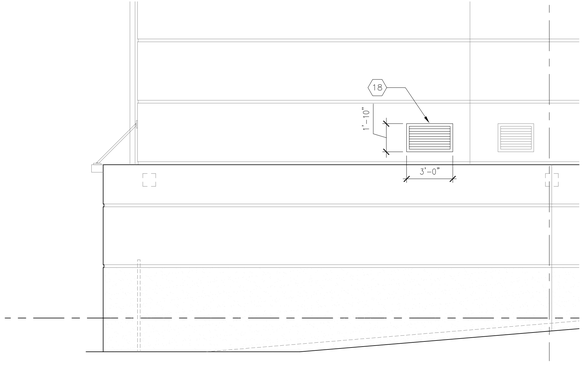
D6 A101 GUARDRAIL ELEV

scale: 3/8"=1'-0"



A3 A101 STAIR FLOOR PLAN

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



A6 A101 ELEVATION - WEST EXT. STAIR

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

PLAN LEGEND

- EXISTING TO REMAIN
- EXTERIOR WALL INFILL, SEE PARTITION TYPES
- CMU WALL, SEE PARTITION TYPES
- XX PARTITION TYPE INDICATOR

KEYNOTES

1. NOT USED
2. STUCCO REVEAL TO MATCH EXISTING
3. 3 COAT STUCCO SYSTEM. PAINT TO MATCH EXISTING
4. 1 1/2" PREFINISHED STEEL GALVANIZED GUARDRAIL. PAINT TO MATCH EXISTING RAILINGS.
5. 6'-0" WIDE REMOVABLE PORTION OF FENCE TO ALLOW ACCESS TO TRANSFORMER
6. NEW PORTION OF CONCRETE SIDEWALK
7. SINGLE 3'-0" ARCHITECTURAL ALUMINUM GATE TO MATCH EXISTING
8. NEW ARCHITECTURAL ALUMINUM FENCE TO MATCH EXISTING
9. HATCHED AREA INDICATES NEW PORTION OF SIDEWALK AND CURB
10. EXISTING CONCRETE CURB
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED
16. NOT USED
17. NOT USED
18. INSTALL NEW LOUVER – MATCH EXISTING
19. STRIP EXISTING PAINT FINISH AT CONTROL DESK, AND REFINISH AS POLISHED CONCRETE.
20. STRIP EXISTING PAINT FINISH AT HANDRAILS, AND LEAVE UNFINISHED.
21. NOT USED
22. NOT USED
23. NOT USED
24. PROVIDE 16 GA. PLATE AND PANIC HARDWARE AT INTERIOR SIDE OF SECURITY GATE, FOR EXITING. DOOR HARDWARE: HINGES STANLEY 2060R – 32D (SS SELF CLOSING SPRINGS) AND PANIC DEVICE VON DUPRIN (WITH SCHLAGE KEYWAY – 99 NLOP – US 28 (POWDER COATED)

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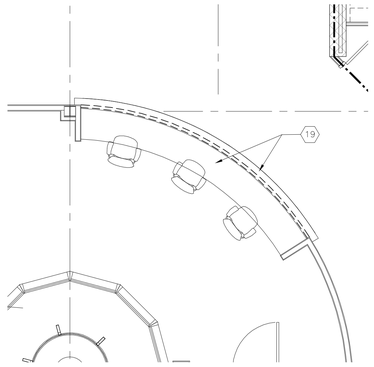
CONSTRUCTION DOCUMENTS

no.	revision	date
1	CITY COMMENTS	07/14/17

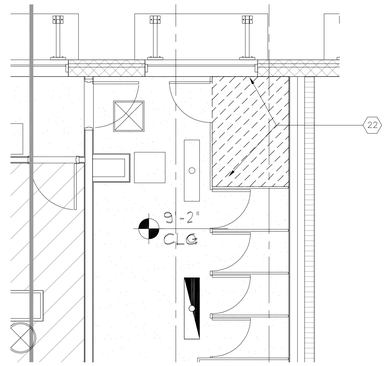
ENLARGED FLOOR PLANS AND DETAILS

scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

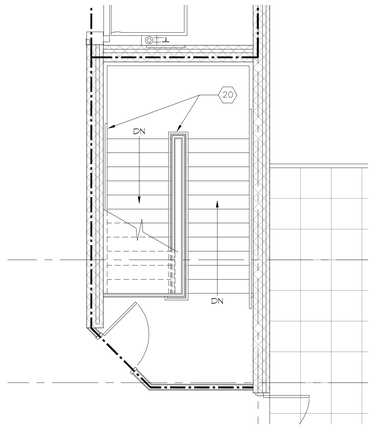
A101



F4 A102 CONTROL DESK PLAN
scale: 1/4"=1'-0"



F7 A102 RESTROOM 217 RCP
scale: 1/4"=1'-0"



D4 A102 STAIR PLAN
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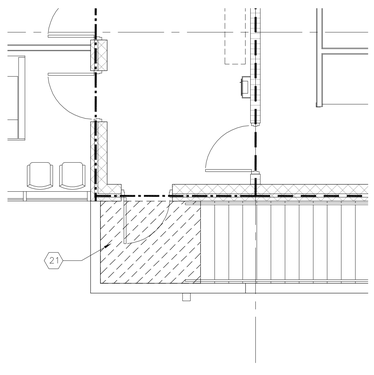

A4 A102 STAIR PLAN
scale: 1/4"=1'-0"

PLAN LEGEND

- EXISTING TO REMAIN
- EXTERIOR WALL INFILL, SEE PARTITION TYPES
- CMU WALL, SEE PARTITION TYPES
- XX PARTITION TYPE INDICATOR

KEYNOTES

1. NOT USED
2. NOT USED
3. NOT USED
4. NOT USED
5. NOT USED
6. NOT USED
7. NOT USED
8. NOT USED
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED
15. NOT USED
16. NOT USED
17. NOT USED
18. NOT USED
19. STRIP EXISTING PAINT FINISH AT CONTROL DESK, AND REFINISH AS POLISHED CONCRETE.
20. STRIP EXISTING PAINT FINISH AT HANDRAILS, AND LEAVE UNFINISHED.
21. REPAIR/REPLACE CONCRETE LANDING TO SLOPE AWAY FROM DOOR THRESHHOLD
22. CUT AWAY PORTION OF EXISTING GYPSUM BOARD CEILING TO FIND SOURCE OF LEAK. REPAIR LEAK, AND REPLACE CEILING AFTER REPAIR. (1)
23. NOT USED
24. NOT USED

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CONSTRUCTION DOCUMENTS

no.	revision	date
1	OWNER COMMENTS	10/10/17

ENLARGED FLOOR PLANS AND DETAILS

scale:	1/8" = 1'-0"
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

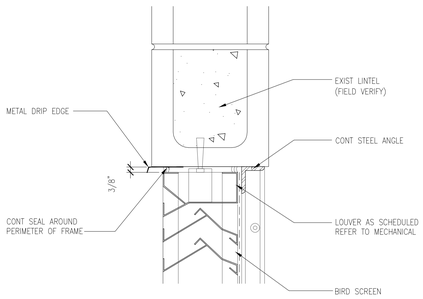
A102

DOOR SCHEDULE - HARDWARE RETROFIT

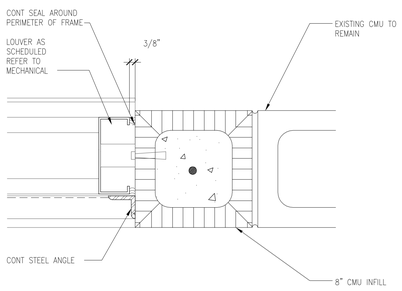
MARK	ROOM NUMBER	ROOM NAME	DOOR SIZE	DOOR THICKN	DOOR MAT'L	DOOR FINISH	DOOR RATING	DOOR TYPE	DOOR GLAZ	FRAME MAT'L	FRAME TYPE	FRAME FINISH	FRAME GLAZING	HRDWR	NOTES
100	100	MAIN ENTRY CORRIDOR	PR-3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	1	
101A	101	LOBBY	3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	3	
103C	103	DINING	PR-3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	6	
105	105	CORRIDOR	3'-6" X 7'-0"	–	–	–	–	–	–	–	–	–	–	2	
128C	128	VESTIBULE	3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	7	
141	141	STAIR	3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	4	
202	202	CORRIDOR	3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–		
231	231	VESTIBULE	3'-0" X 7'-0"	–	–	–	–	–	–	–	–	–	–	5	

GENERAL DOOR SCHEDULE NOTES

A. ALL HARDWARE IS TO MATCH EXISTING
B. FIELD VERIFY EXISTING DOOR SIZES
C. SEE SPECIFICATIONS FOR DOOR HARDWARE SETS, AND ADDITIONAL SCOPE INFORMATION



E1 - LOUVER - HEAD
scale: 3"=1'-0"



C1 - LOUVER - JAMB
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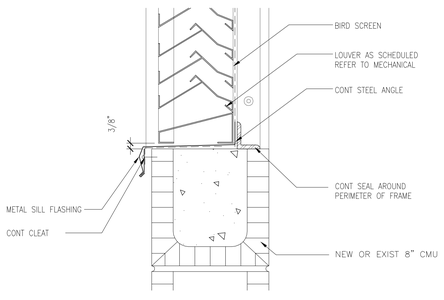

A1 - LOUVER - SILL
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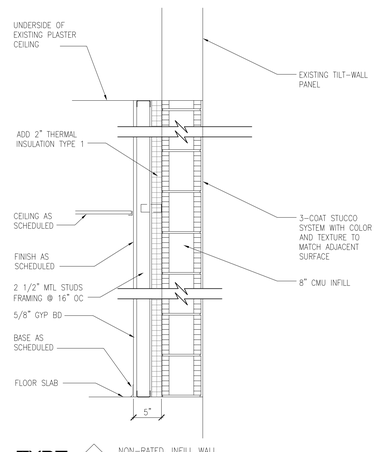

TYPE 1 NON-RATED, INFILL WALL ASSEMBLY

A6 / A701 PARTITION TYPES
scale: N.T.S.

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CONSTRUCTION DOCUMENTS

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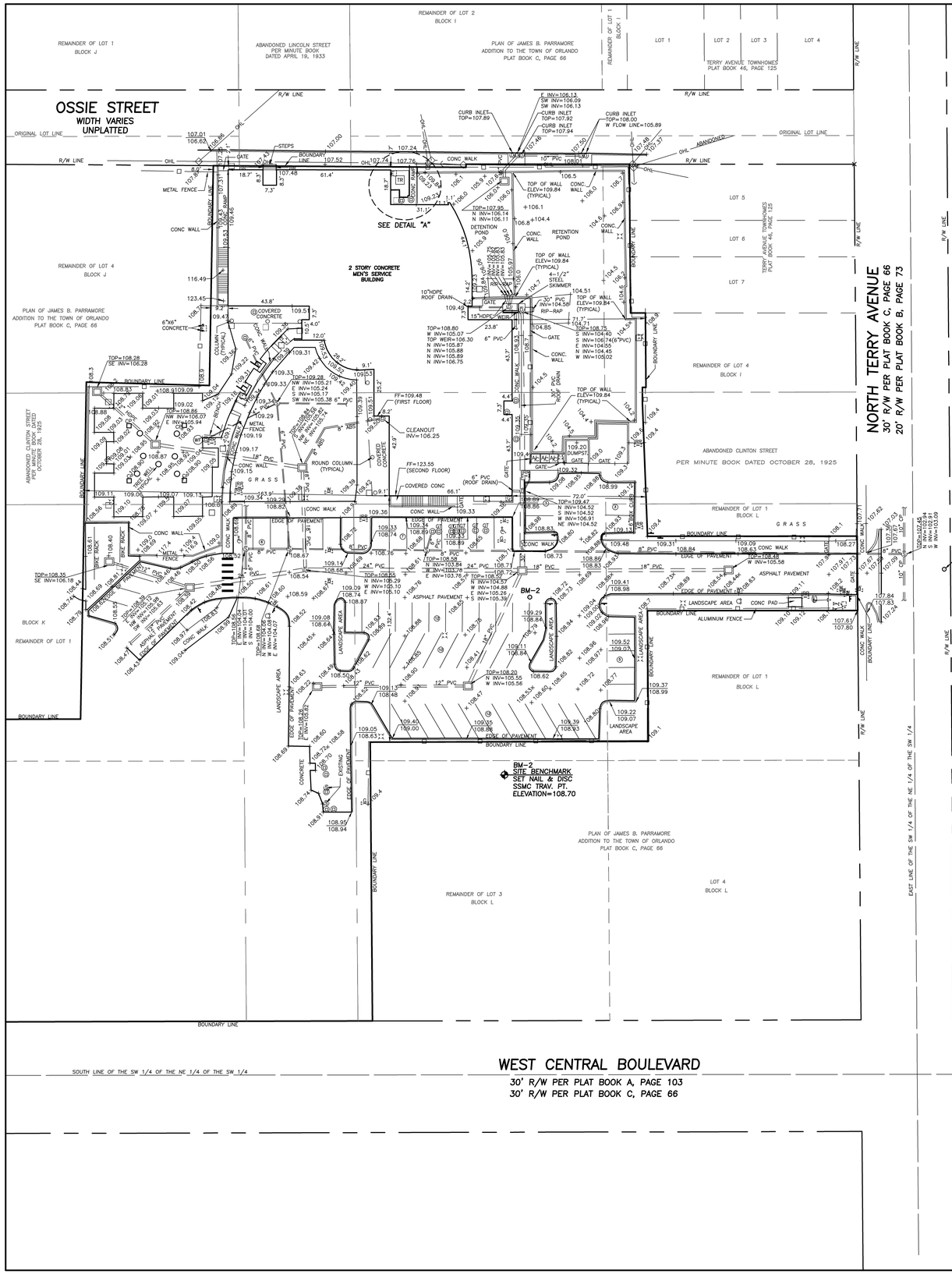
DOOR SCHEDULE AND PARTITION TYPES

scale:	NTS
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

A701



LEGEND AND ABBREVIATIONS

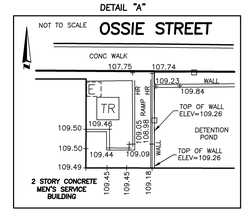
- = AIR CONDITIONING UNIT
- = BACKFLOW PREVENTER
- = BENCH
- = BUSH
- = BURIED TELEPHONE PEDESTAL
- = CONCRETE MONUMENT
- = CLEAN OUT
- = DRAINAGE MANHOLE
- = ELECTRIC FIXTURE
- = ELECTRIC SERVICE METER
- = FLAT GRATE INLET
- = FIRE HYDRANT
- = GAS METER
- = GREASE TRAP
- = DOWN GUY
- = GAS VALVE
- = HAND HOLE
- = IRON PIPE
- = IRON ROD
- = IRRIGATION VALVE
- = LIGHT POLE
- = MITERED END SECTION
- = MONITORING WELL
- = NAIL W/DISC
- = SERVICE POLE
- = TRAFFIC SIGN
- = TELEPHONE MANHOLE
- = TRANSFORMER ON SLAB
- = TRAFFIC SIGNAL SPAN POLE
- = VAULT
- = WATER METER
- = WIRING PULL BOX
- = WATER VALVE
- = CROSS CUT
- –X– = CHAINLINK FENCE
- = POST & RAIL FENCE
- –OHL– = OVERHEAD UTILITY LINE
- = GUARDRAIL
- ABS = ACRYLONITRILE BUTADIENE STYRENE PIPE
- PVC = POLYVINYL CHLORIDE PIPE
- INV = INVERT
- R/W = RIGHT OF WAY
- FF = FINISHED FLOOR ELEVATION
- HR = HANDRAIL
- HDPE = HIGH-DENSITY POLYETHYLENE
- ELEC = ELECTRIC
- CP = CONCRETE PIPE
- = HANDICAP PARKING SYMBOL
- TRAV.PT. = TRAVERSE POINT
- = UTILITY POLE
- = POST/BOLLARD
- = SANITARY MANHOLE
- = NON-TRAFFIC SIGN
- (#) = NUMBER OF PARKING SPACES
- NAD = NORTH AMERICAN DATUM
- NAVD = NORTH AMERICAN VERTICAL DATUM
- CONC = CONCRETE
- = CONCRETE PEDESTAL
- (WF) = WATER FOUNTAIN

1" = 30' GRAPHIC SCALE

0 15 30 60

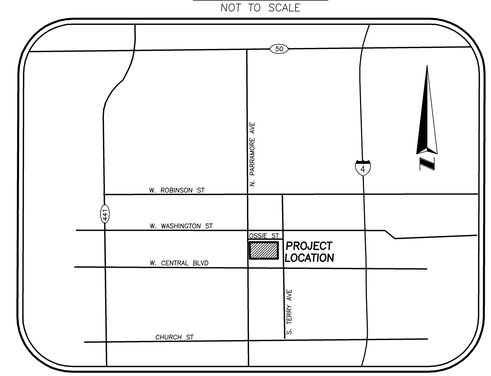
DETAIL "A"

NOT TO SCALE



VICINITY MAP

NOT TO SCALE



DESCRIPTION:

A portion of Lot 1, Coalition for the Homeless, Plat Book 74, Pages 119–120, Orange County, Florida

SURVEYOR'S REPORT:

1. Utility locations if shown hereon are based on field location of markings by Utility Company representatives, surface features and construction plans furnished to the surveyor. Additional sub–surface utilities may exist that have not been field located.
2. Easements or rights of way that appear on recorded plans or that have been furnished to the surveyor by others have been incorporated into this drawing with appropriate notation. Other easements may be discovered by a search of the Public Records.
3. Measurement methods used for this survey meet STANDARDS OF PRACTICE FOR LAND SURVEYING Chapter 5J–17.050–.052 requirements.
4. Underground foundations have not been located.
5. Bearings and distances shown hereon are measured unless otherwise noted.
6. The survey map and report or the copies thereof are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper.
7. Features shown by symbol as indicated in the legend are not to scale.
8. Vertical information shown hereon refers to a City of Orlando Benchmark being a 2" Brass Disk at the Northeast corner of Orange Avenue and Central Boulevard, on the Northwest corner of the wheelchair ramp with a published elevation of 104.957 feet North American Vertical Datum (NAVD) 88.
9. Based on the National Flood Insurance Program FIRM Map No. 12095C0245F, dated September 25, 2009, the above described property is within a special flood hazard Zone "X".
10. The horizontal positions for all features shown on the map are relative to North American Datum, NAD 1983, 2007 adjustment, State Plane Coordinate System, Florida East Zone.
11. Unless shown, only those visible features found within the boundaries of this survey or in the immediate vicinity of the above described parcel boundary have been located.
12. Positional accuracy meets National Geodetic Survey, NGS Third Order, Class One, specifically 1:10,000, verified by redundant measurements.
13. Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
14. Right of Way information shown hereon was determined by found monumentation, recorded plats, and information obtained on the Orange County Property Appraisers web site.
15. Boundary and Right of Way Line shown hereon are Based on the Boundary and Topographic Survey # 54995001, dated February 3, 2010, prepared by Southeastern Surveying & Mapping Corp. and are shown for graphic purposes only.

NOTICE OF LIABILITY:

This survey is certified to those individuals shown on the face thereof. Any other use, benefit or reliance by any other party is strictly prohibited and restricted. Surveyor is responsible only to those certified and hereby disclaims any other liability and hereby restricts the rights of any other individual or firm to use this survey, without express written consent of the surveyor.

REVISION DATE	REVISION	BY
01/19/2015	ADD WALL ELEVATIONS	JSL
01/29/2015	CHECK AND REVISE ELEVATIONS	JSL
02/18/2015	Added invert and wall drain pipe	S.S.

SHEET NUMBER 1 OF 1

FRANCIS L. CHANDLER III
Registered Land Surveyor
Number 4791

Southeastern Surveying & Mapping Corporation

SOUTHEASTERN SURVEYING AND MAPPING CORPORATION
6500 All American Boulevard
Orlando, Florida 32810–4350
(407) 292–5580 Certification Number LB2108
e–mail: info@southeasternsurveying.com

As–Built Survey

Project: Coalition For the Homeless of Central Florida

Field Date: 11/19/2014 | Drawn By: LSA | Scale: 1"=30'

Certified to: APM Construction Corp. Coalition for the Homeless of Central Florida

DRAWING NUMBER
54995007

SHEET NUMBER
1 OF 1

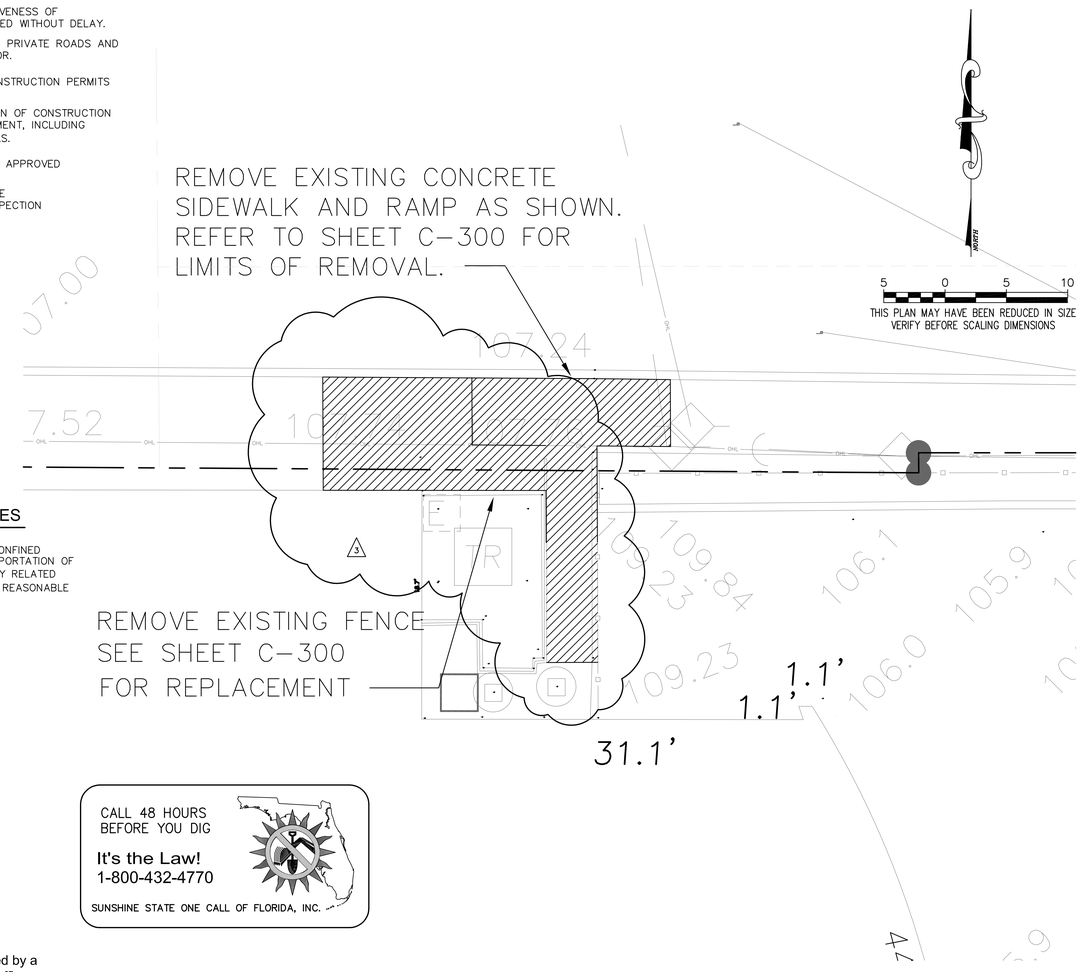
C-100

DEMOLITION AND EROSION CONTROL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO START ANY CONSTRUCTION ACTIVITY TO OBTAIN DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS, AS APPLICABLE. CONTRACTOR SHALL ALSO COORDINATE WITH ALL APPLICABLE UTILITY COMPANIES ON THE EXACT LOCATION OF UNDERGROUND UTILITIES AND ANY UTILITY ADJUSTMENT REQUIRED. UTILITY COMPANIES SHALL BE NOTIFIED A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO EXCAVATION.
2. THE LOCATION OF EXISTING UTILITIES PROVIDED ON THESE PLANS WERE DEPICTED FROM ACTUAL FIELD MEASUREMENTS AND/OR DERIVED FROM RECORD DRAWINGS THAT WERE VERIFIED FROM THE BEST AVAILABLE SOURCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION TO DETERMINE IF THERE ARE ANY CONFLICTS WITH THE PROPOSED CONSTRUCTION AND TO COORDINATE WITH UTILITY OWNERS, PROPERTY OWNER, AND ENGINEER OF RECORD TO RESOLVE THESE CONFLICTS. ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO START OF CONSTRUCTION.
3. EXISTING ROADWAY BASE MATERIALS, SUCH AS SHELL OR LIMEROCK, MAY BE UTILIZED IN STABILIZATION IF SUITABLE FOR MIXING, AS APPROVED BY THE GEOTECHNICAL ENGINEER.
4. ALL DEBRIS AND WASTE MATERIALS GENERATED BY DEMOLITION ACTIVITIES OR SUBSEQUENT CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER AT AN APPROVED DISPOSAL FACILITY. THE CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED FOR DEMOLITION, INCIDENTAL CONSTRUCTION WORK, EARTHWORK, AND HAULING WASTE MATERIALS AS REQUIRED BY ORANGE COUNTY AND/OR FDEP.
5. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING AND BRACING AS REQUIRED TO PROTECT ADJACENT STRUCTURES AND UTILITIES OR TO MINIMIZE TRENCH WIDTH AS NECESSARY. SHEETING AND SHORING SHALL BE DESIGNED BY A STATE OF FLORIDA REGISTERED P.E., RETAINED BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY DESIGN STANDARDS".
7. MAINTENANCE OF TRAFFIC: ACCESS FOR LOCAL TRAFFIC WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES, UNLESS APPROVED OTHERWISE BY THE LOCAL CITY, COUNTY, OR STATE FDOT. IF DURING CONSTRUCTION ACCESS FOR LOCAL TRAFFIC IS CHANGED, THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCY A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH INDEX NO. 600 OF THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) ROADWAY AND TRAFFIC DESIGN STANDARDS.
8. SILT SCREENS AND TURBIDITY BARRIERS INSTALLED MUST REMAIN IN PLACE AND MAINTAINED IN GOOD CONDITION AT ALL LOCATIONS SHOWN ON THE APPROVED EROSION CONTROL PLAN AND THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETED, SOILS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
9. THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED BY CITY OF ORLANDO, FDEP, SJRWMD, OR FDOT BEYOND THAT WHICH HAS BEEN SPECIFIED ON THE PLANS SHALL BE CONSIDERED AS INCLUDED WITHIN THIS CONTRACT.
10. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE DESIGN STANDARDS OF CITY OF ORLANDO, SJRWMD, FDEP, AND THE FDOT.
11. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO START OF CONSTRUCTION. SEDIMENTATION CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF OF THE SITE.
12. SEDIMENT MATERIALS FROM WORK ON THIS PROJECT SHALL BE CONTAINED AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR DISCHARGE INTO WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
13. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
14. ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING PUBLIC OR PRIVATE ROADS AND FACILITIES, DUE TO CONSTRUCTION SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL THE REQUIRED CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
16. THE CONTRACTOR SHALL MAINTAIN TREE PROTECTION MEASURES THROUGHOUT DURATION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MAY NOT BE ALLOWED TO STORE MATERIALS OR EQUIPMENT, INCLUDING VEHICULAR PARKING, UNDER THE CANOPY OF TREES OR WITHIN TREE PROTECTED AREAS.
17. INGRESS AND EGRESS TO THE SITE DURING CONSTRUCTION IS ALLOWED ONLY THROUGH APPROVED SITE DRIVEWAYS.
18. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE AVAILABLE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PREPARE WEEKLY INSPECTION REPORTS PER FDEP.

NOTES PERTAINING TO AIR QUALITY CONTROL MEASURES

NO PERSON SHALL CAUSE, LET, SUFFER, ALLOW, OR PERMIT THE EMISSIONS OF UNCONFINED PARTICULATE MATTER FROM ANY ACTIVITY, INCLUDING VEHICULAR MOVEMENT; TRANSPORTATION OF MATERIALS; CONSTRUCTION, ALTERATION, DEMOLITION OR WRECKING; OR INDUSTRIALLY RELATED ACTIVITIES SUCH AS LOADING, UNLOADING, STORING, OR HANDLING; WITHOUT TAKING REASONABLE PRECAUTIONS TO PREVENT SUCH EMISSIONS.



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GENERAL NOTES - MAINTENANCE OF TRAFFIC

1.Maintenance of traffic shall be in accordance with the Manual on Uniform Traffic Control Devices (latest edition and revisions) and the Florida Department Of Transportation Roadway Design Standards (latest edition and revisions)

2.Contractor shall pay for and submit a Maintenance of Traffic Plan (including required revisions) to the Transportation Engineering Division that is designed, signed and sealed by a professional engineer registered in the state of Florida, for review and approval prior to start of work. The plan shall be prepared in accordance with the Manual on Uniform Traffic Control Devices and FDOT Traffic Design Standards (latest editions and revisions).

3.The design of the traffic control plan shall include all signs, barriers, channelizing devices, pavement markings, etc. for the safe passage of pedestrians, bicyclist, and vehicular traffic through the project and for the protection of the workers.

4.The contractor shall call (407) 246-2372 1 week prior to the start of any phase of work to request Street, Lane or Sidewalk Closure Authorization.

5.Local residential/business access shall be maintained at all times.

6.No lane closures will occur between the hours of 6 a.m. and 9 a.m. or between the hours of 3:30 p.m. and 6:30 p.m. Monday through Friday.

7.The use of Traffic Cones will be restricted to active work periods only. Channelizing devices (Type I, II, Drums) shall be used during inactive work periods unless otherwise specified.

8.The City of Orlando reserves the right to require additional devices and/or changes to the traffic control plan based upon changing traffic conditions.

9.Pedestrian control shall be maintained on one side of the road at all times. If unable to do so, the contractor shall provide temporary walkways, boardwalks and/or temporary concrete sidewalks.

10.The contractor shall be responsible for insuring each employee supervising the selection and placement of Maintenance of Traffic (MOT) Control Devices shall be properly trained by attending and successfully completing a Florida Department of Transportation (FDOT) approved MOT course. The training shall be at a level applicable to the employee's level of involvement. Copies of certifications shall be provided to the City Transportation Engineering Division prior to implementing any phase of MOT.

11.The contractor shall provide a Traffic Control Supervisor (TCS) who is responsible for initiating, installing and maintaining all Traffic Control Devices.

12.The TCS shall be available on a 24-hour per day basis, participate in all changes to traffic control and review the project on a day-to-day basis.

13.The TCS shall be present during the initial setup of the traffic control plan and all subsequent phases or changes to the traffic control.

14.The TCS shall immediately correct all deficiencies.

15.The contractor shall ensure the TCS be available on site within 45 minutes of notification of an emergency situation and is prepared to respond to and correct the traffic control or provide alternate arrangements for corrective actions.

16.The TCS shall be responsible for performing weekly, daytime and nighttime inspections of all traffic control devices, traffic flow, and pedestrian, bicyclist movement through the work area and business accommodations.

17.The city may disqualify and remove from the project a traffic control supervisor that fails to comply with these provisions. The city may also suspend all work activities until corrective actions have been completed.

DEMOLITION AND EROSION CONTROL PLAN

UTILITY SEPARATION NOTES

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING @ CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORMWATER FORCE MAIN, RECLAIMED WATER (2)	WATER MAIN 3 FT. MINIMUM	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR STORM SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED	ALTERNATE 3 FT. MINIMUM WATER MAIN
VACUUM SANITARY SEWER	WATER MAIN 10 FT. PREFERRED 3 FT. MINIMUM	WATER MAIN 12 INCHES PREFERRED 6 INCHES MINIMUM	ALTERNATE 3 FT. MINIMUM WATER MAIN
GRAVITY OR PRESSURE SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (4)	WATER MAIN 10 FT. PREFERRED 6 FT. MINIMUM (3)	WATER MAIN 12 INCHES IS THE MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS THE MINIMUM AND 12 INCHES IS PREFERRED	ALTERNATE 6 FT. MINIMUM WATER MAIN
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10 FT. MINIMUM	- - -	- - -

(1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
(3) 3 FT. FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(4) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

DISCLAIMER - THIS DOCUMENT IS PROVIDED FOR YOUR CONVENIENCE ONLY. PLEASE REFER TO F.A.C. RULE 62-555.314 FOR ADDITIONAL CONSTRUCTION REQUIREMENTS.

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CERTIFICATE OF AUTHORIZATION # 28312

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ORANGE COUNTY GOVERNMENT FLORIDA

Orange County Government

Coalition For The Homeless

Deficiency Project

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Orlando, FL 32801

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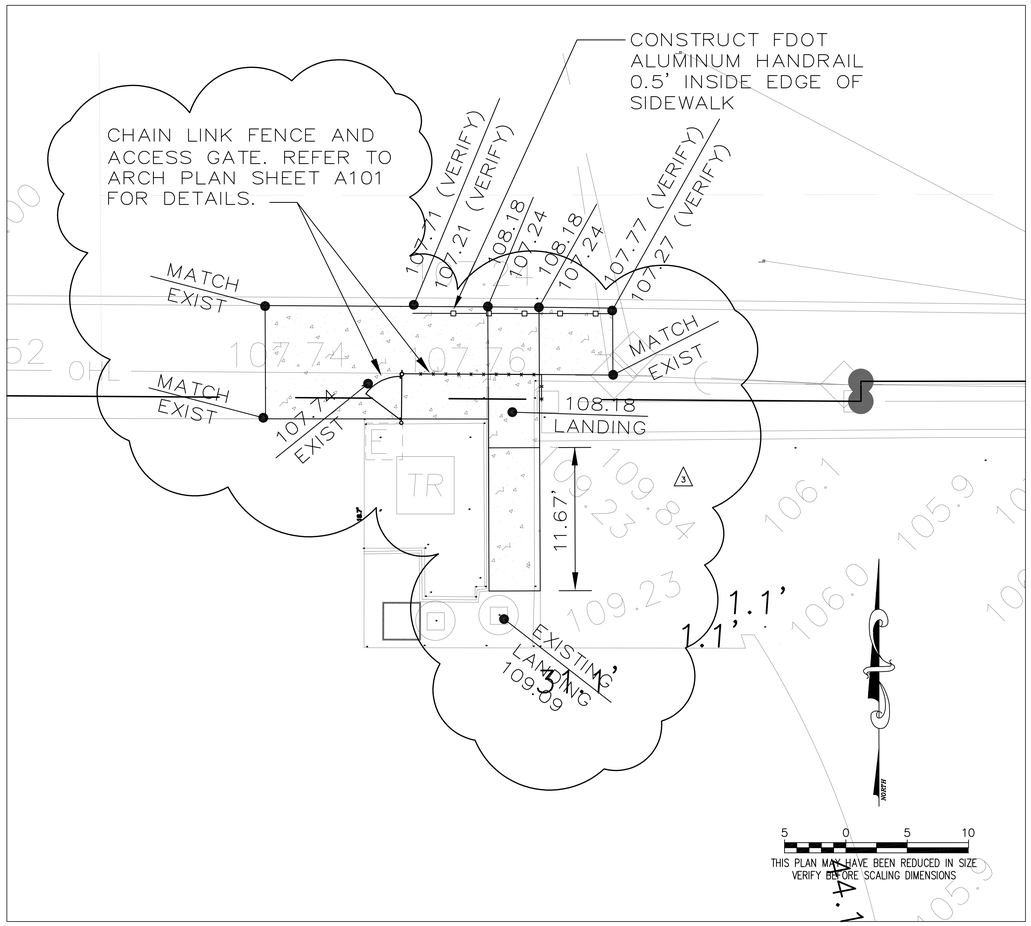
CONSTRUCTION DOCUMENTS

no.	revision	date
1	ADD #2	09/05/17
3	CITY COMMENTS	10/10/17

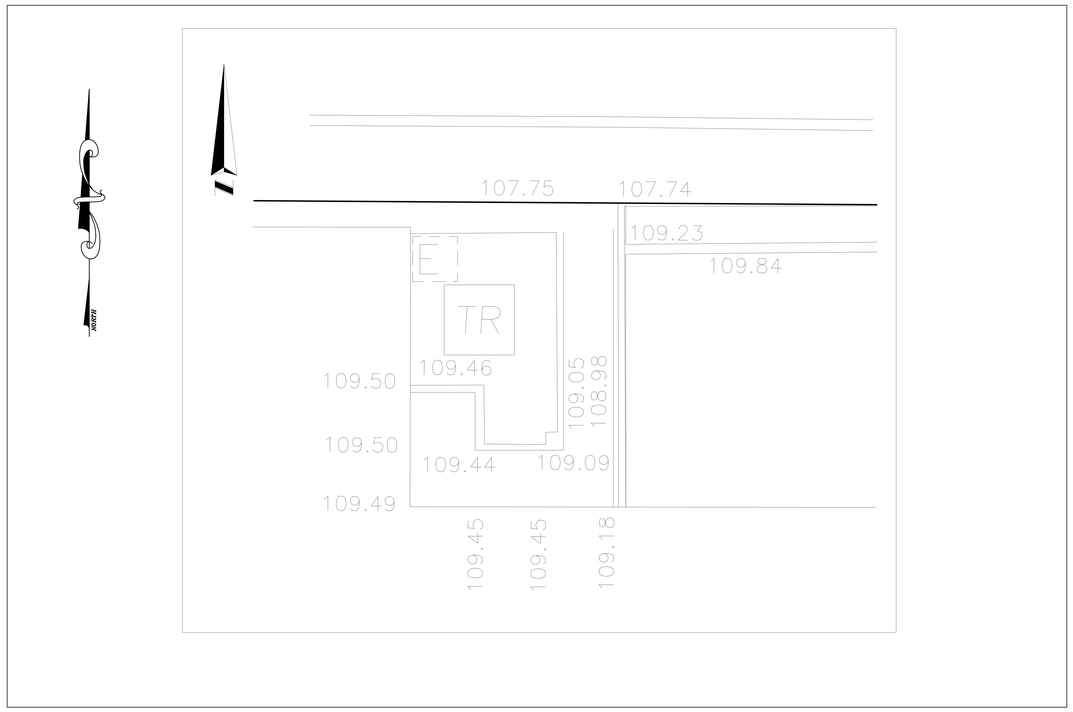
DEMOLITION AND EROSION CONTROL

scale:
drawn:
check:
date: 05/30/17
project no: 12002.0031

C-101



GRADING PLAN



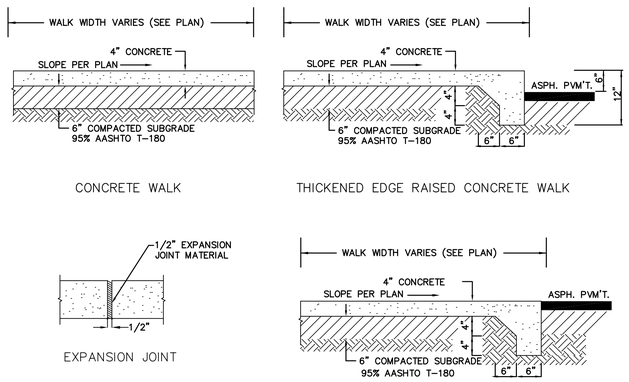
EXISTING RAMP GRADES

SITE UTILITY NOTES

1. THE LOCATION OF EXISTING UTILITIES, SUCH AS WATER MAINS, SEWERS, GAS LINES, ETC. AS SHOWN ON THE PLANS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. BE ADVISED THAT THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATIONS SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL UTILITY COMPANIES FORTY–EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN ORDER TO HAVE THE UTILITIES MARKED AND LOCATED IN THE FIELD PRIOR COMMENCEMENT OF ANY WORK.
2. WHERE APPLICABLE UTILITY TRENCHES CROSSING PAVEMENT AREAS SHALL BE BACKFILLED WITH GRANULAR MATERIAL IN TWELVE INCH (12") LAYERS AND COMPACTED TO NINETY–EIGHT PERCENT (98%) MAXIMUM DENSITY AS DETERMINED BY AASHTO T–99.
3. ALL UNSUITABLE MATERIALS UNDER WATER PIPES SHALL BE REMOVED AND REPLACED WITH SELECTED BACKFILL COMPACTED TO NINETY–EIGHT PERCENT (98%) OF ITS MAXIMUM DENSITY AT TWO PERCENT (2.0%) MORE OR LESS OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE MODIFIED PROCTOR TEST (ASTM D1557).
4. ANY DAMAGE TO UNDERGROUND UTILITIES AND/OR STRUCTURES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
5. ALL MATERIALS AND CONSTRUCTION ARE TO BE IN ACCORDANCE WITH CITY, STATE, AND COUNTY STANDARDS AND SPECIFICATIONS.
6. CONTRACTOR IS TO ADJUST ANY UTILITY ELEMENT MEANT TO BE FLUSH WITH GRADE (CLEAN OUTS, MANHOLES, CATCH BASINS, INLETS, ,ETC.) THAT IS AFFECTED BY SITE WORK OR GRADE CHANGES, WHETHER SPECIFICALLY NOTED ON PLANS OR NOT.
7. ELECTRICAL, TELEPHONE, GAS AND CABLE TELEVISION SERVICE WILL BE PROVIDED BY THE APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL COORDINATE LOCATIONS AND SERVICES FOR THESE UTILITIES WITH THE ENTITIES INVOLVED.
8. THE CONTRACTOR SHALL NOTIFY THE ORLANDO UTILITIES COMMISSION (WATER) AND CITY OF ORLANDO (SEWER) FORTY–EIGHT (48) HOURS PRIOR TO START OF ANY UTILITIES CONSTRUCTION.

GRADING AND DRAINAGE NOTES

1. EXISTING TOPOGRAPHY AND ROADWAY RIGHT–OF–WAY DATA SHOWN ARE BASED UPON TOPOGRAPHIC SURVEY BY SOUTHEASTERN SURVEYING, INC.
2. THE CONTRACTOR SHALL VERIFY EXISTING TOPOGRAPHIC DATA LOCATIONS OF EXISTING UTILITIES, AND ALL OTHER SITE CONDITIONS PRIOR TO START OF CONSTRUCTION.
3. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED, AND RIP RAP MUST BE PLACED AS NECESSARY TO CONTROL EROSION (WHERE APPLICABLE).
4. THE CONTRACTOR IS RESPONSIBLE FOR STRIPPING AND STOCKPILING OF TOPSOIL. THE CONTRACTOR ALSO RESPONSIBLE FOR SPREADING 4" OF TOPSOIL ON LANDSCAPE AREAS AND REMOVING ALL EXCESS TOPSOIL FROM THE SITE.
5. GRADING CONTRACTOR SHALL PROVIDE AND INSTALL TOPSOIL IN DISTURBED AREAS TO BE GRASSED, TO INCLUDE PAVEMENT SHOULDERS AND DETENTION AREAS.
6. FOR BENCHMARK INFORMATION REFER TO THIS SHEET.
7. ALL GRADES SHOWN ARE FINISHED GRADES UNLESS NOTED OTHERWISE.
8. INLET ELEVATIONS AND MANHOLE ELEVATIONS ARE TOP OF RIM.
9. ALL MATERIALS, INSTALLATION, AND TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF ORLANDO, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WHERE THE SPECIFICATIONS CONFLICT, THE MOST STRINGENT SPECIFICATION SHALL APPLY.
10. COORDINATE VALUES, IF SHOWN, ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEYOR.
11. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE GRADED TO ORIGINAL GROUND LINES AND FINISHED WITH ARGENTINE BAHIA SOD UNLESS NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN ALL AREAS UNTIL FINAL ACCEPTANCE.
12. SUBSURFACE INFORMATION FOR THIS PROJECT WAS OBTAINED FOR DESIGN PURPOSES AND MAY NOT BE AN ADEQUATE REPRESENTATION OF ACTUAL CONDITIONS AT TIME OF CONSTRUCTION. INFORMATION SHOWN, INCLUDING WATER LEVELS, REPRESENT EXISTING CONDITIONS AT THE SPECIFIC BORING LOCATIONS AND AT THE TIME THE BORINGS WERE PERFORMED.
13. ALL REFERENCES TO PROPOSED CONSTRUCTION INDICATES CONSTRUCTION INCLUDED IN THIS CONTRACT.
14. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREON, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OF RECORD, IN WRITING, AND WITHIN 48 HOURS OF DISCOVERY. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO SUCH DIFFERING CONDITIONS WILL BE ALLOWED IF HE OR SHE FAILS TO PROVIDE WRITTEN NOTIFICATION.



NOTES:
1. 4" THICK SIDEWALK W/LIGHT BROOM FINISH & TROWELED EDGE.
2. ALL CONCRETE SIDEWALKS SHALL HAVE A FULL 1/2" EXPANSION JOINT AT A MAXIMUM DISTANCE OF 40 LINEAR FEET AND A SAW CUT OR FORMED DUMMY CONTRACTION JOINT AT EVENLY SPACED INTERVALS NOT TO EXCEED 8 LINEAR FEET.
3. CONTRACTOR MAY USE FIBER MESH AS CONCRETE REINFORCMENT. 3,000 PSI IN 28 DAYS.

TYPICAL SIDEWALK DETAILS

N.T.S.

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CONSTRUCTION DOCUMENTS

no.	revision	date
3	CITY COMMENTS	10/10/17

GRADING PLAN

scale:	
drawn:	
check:	
date:	05/30/17
project no:	12002.0031

C-300

MECHANICAL GENERAL NOTES

1 APPLICABLE CODES: FLORIDA BUILDING CODE FIFTH EDITION INCLUDING MECHANICAL, PLUMBING, FUEL GAS. NEC 2011, SMACNA, ASHRAE, NFPA

2 THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF A COMPLETE SYSTEM IN ACCORDANCE WITH THESE DRAWINGS. THE APPLICABLE BUILDING CODE AND ALL OTHER APPLICABLE STATE, COUNTY, AND LOCAL ORDINANCES AND THE LATEST ADDITION OF THE FOLLOWING PUBLICATIONS; SMACNA, ASHRAE, NFPA 90A, 90B, 91, AND ANSI B-9.1 MECHANICAL REFRIGERATION.

3 THE CONTRACTOR SHALL VISIT THE SITE AND COORDINATE WITH ALL OTHER TRADES.

4 THE CONTRACTOR SHALL SUPPLY THE ARCHITECT WITH "AS-BUILT" DRAWINGS. IF FIELD CHANGES ARE MADE, CONTRACTOR NEEDING DRAWINGS CHANGES FOR INSPECTION, SHALL SUBMIT CHANGES WITH SUFFICIENT TIME TO MAKE DRAWINGS CHANGES. THE CONTRACTOR WILL BE BILLED HOURLY FOR CADD CHANGES IF THE CHANGES WERE NOT PRE-APPROVED BY THE ENGINEER AND OWNER.

5 THE CONTRACTOR SHALL SUBMIT FOR APPROVAL FIVE (5) COPIES OF MANUFACTURER'S DRAWINGS FOR EACH PIECE OF EQUIPMENT AND CONTROLS INCLUDED IN CONTRACT. CONTRACTOR SHALL ALSO SUBMIT OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT TO THE OWNER. CONTRACTOR SHALL ALSO SUBMIT WITH MANUFACTURER SUBMITTALS A NOTICE TO OWNER FOR TRAINING. TRAINING SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EQUIPMENT AND CONTROLS WITH NECESSARY TIME TO ENSURE THE OWNER HAS UNDERSTOOD SYSTEM. MINIMUM TRANING HOURS SHALL BE SHEDULED AT 4-HOURS. ALL COSTS AND TIME OF TRAINING SHALL BE INCLUDED IN THE BID.

6 ALL MATERIAL SHALL BE NEW OF U.S. MANUFACTURER OF GOOD QUALITY. ALL WORK SHALL BE PERFORMED AT INDUSTRY STANDARD QUALITY LEVEL BY CERTIFIED PROFESSIONALS. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.

7 DUCT SIZES SHOWN ARE INSIDE AIRFLOW DIMENSIONS. WHERE INTERNAL LINERS ARE USED, INSIDE DIAMETER OF DUCT SHALL COMPENSATE FOR INSULATION THICKNESS.

8 ALL SUPPLY AND RETURN BRANCH TAKE-OFFS TO BE PROVIDED WITH MANUAL VOLUME DAMPERS. ALL ELBOWS AND TEE'S MUST BE FURNISHED IN TURNING VANES. PROVIDE MANUAL VOLUME DAMPERS AND EXTRACTOR AT ALL FLEX TAKE OFFS.

9 PROVIDE "CONSTRUCTION" AIR FILTERS IN ALL AIR MOVING EQUIPMENT AND ROUGHED IN AIR DEVICE BOOTS. FOR ALL ROUGHED IN FLEX RUN-OUTS PULL AND TWIST THE END SECTION OF THE OUTER FOIL FACE ONLY, SPIN SO THE FOIL CLOSES, SECURE WEATHER TIGHT WITH ZIP TIE TO PREVENT MOISTURE INTRUSION. PROVIDE NEW FILTERS FOR ALL AIR MOVING EQUIPMENT PRIOR TO START-UP. REPLACE ALL FILTERS PRIOR TO FINAL ACCEPTANCE BY OWNER. SUBMIT A NOTICE TO THE OWNER OF FILTER QUANTITIES, SIZES AND LOCATIONS OF ALL FILTERS CHANGED.

10 PROVIDE SMOKE DETECTORS WITH SERVICEABLE ACCESS DOORS IN ALL SUPPLY AIR DUCTS FROM ALL AIR HANDLERS WHERE NOTED. ALL SMOKE DETECTORS SHALL BE BY SAME MANUFACTURER, COORDINATE VOLTAGE, ETC. WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SYSTEM, BEFORE ORDER. UPON DETECTION, SMOKE DETECTORS SHUT DOWN ASSOCIATED AIR MOVING EQUIPMENT AND ALL AIR MOVING EQUIPMENT SERVICING THAT AREA. WHERE NO FIRE ALARM SYSTEM IS INDICATED, MECHANICAL CONTRACTOR SHALL ALSO PROVIDE AND INSTALL REMOTE KEY SWITCH WITH AUDIBLE/VISUAL ALARM PER CODE.

11 PROVIDE TYPE "B" STATIC FIRE DAMPERS WITH CURTAIN TOTALLY OUT OF AIR STREAM IN ALL DUCTS OR OPENINGS PENETRATING RATED WALLS AND FLOORS PER ARCHITECTURAL LIFE SAFETY PLANS AND MECHANICAL PLANS.PROVIDE TYPE "A" STATIC FIRE DAMPERS WITH CURTAIN IN AIR STREAM FOR ALL FIRE DAMPERS USED IN CONJUNCTION WITH GRILLES/REGISTERS PENETRATING RATED WALLS AND FLOORS PER ARCHITECTURAL LIFE SAFETY PLANS AND MECHANICAL PLANS.

12 THERMOSTAT LOCATION SHALL BE APPROVED BY THE OWNER AND ENGINEERS BEFORE INSTALLATION. INSTALL 48" A.F.F. PER A.D.A. REQUIREMENTS. INCLUDE ADD ALTERNATE TO PROVIDE ALL THERMOSTATS WITH LOCKING COVERS AND COORDINATE REQUIREMENTS WITH OWNER. PROVIDE A KEYMAP AT EACH THERMOSTAT WHICH SHOWS A FLOOR PLAN OF AREA BEING SERVED BY THE THERMOSTAT. INSTALL KEYMAP WITHIN A GLASS PICTURE FRAME AND MOUNT ON WALL. LABEL THERMOSTAT FOR AIR UNIT BEING SERVED.

13 ALL INSULATION SHALL HAVE FIRE/SMOKE RATING LESS THAN 25/50.

14 PROVIDE MINIMUM OF 3' CLEARANCE IN FRONT OF ALL 120-240 VOLT PANELS AND 4' CLEARANCE IN FRONT OF ANY 480 VOLT PANEL. PROVIDE ADEQUATE SIDE CLEARANCE PER NEC.

15 MECHANICAL PLANS IN GENERAL, ARE DIAGRAMMATIC IN NATURE, AND ARE TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, PLUMBING, ELECTRICAL, AND STRUCTURAL PLANS AND SHALL BE CONSIDERED AS ONE SET OF DOCUMENTS. DUCT AND PIPING OFFSETS, BENDS AND TRANSITIONS WILL BE REQUIRED TO PROVIDE AND INSTALL A COMPLETE FUNCTIONAL SYSTEM AND SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

16 THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING, ORDERING, FABRICATING OR INSTALLATION OF MATERIALS OR EQUIPMENT.

17 ALL WORK SHALL BE DONE IN ACCORDANCE WITH FLORIDA BUILDING CODE FIFTH EDITION, NFPA, ASHRAE, AND SMACNA DUCT CONSTRUCTION STANDARDS.

18 ROUTE ALL DUCTWORK, PIPING AND ACCESSORIES IN A MANNER TO AVOID BUILDING COMPONENTS STRUCTURE, AND LIGHTING. COORDINATE TRANSITIONS MADE TO MAXIMUM PRESSURE DROPS PER FAN AND PUMP MANUFACTURERS CURVES.

19 WHERE REFRIGERANT LINES ARE INSTALLED, SIZE PER MANUFACTURER'S INSTRUCTIONS WITH RESPECT TO LENGTH AND FITTINGS TO BE INSTALLED IN PIPING.

20 ALL DEBRIS SHALL BE PROPERLY DISPOSED OFF SITE. CLEAN UP SITE DAILY AFTER WORK IS COMPLETE. IF CLEAN UP PERFORMED BY OWNER'S REPRESENTATIVE AS A RESULT OF SUBCONTRACTOR NOT PERFORMING CLEAN UP OPERATIONS, OWNER WILL HAVE THE RIGHT TO CHARGE SUBCONTRACTOR FOR CLEAN UP LABOR.

21 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY SUPPORTING DEVICES FOR ALL ACCESSORIES INCLUDED WITHIN THIS CONTRACT.

LOUVER SCHEDULE

1

TAG	TYPE	CFM	WIDTH	HEIGHT	MAX ESP (IN-H20)	FREE AREA (SQFT)	BASIS OF DESIGN		
							MANUFACT	MODEL	NOTES
LVR-01	EXHAUST	600	32.0	16.0	0.03	1.33	GREENHECK	EVH-501D	ALL
LVR-02	EXHAUST	15057.0	66.0	24.0	0.04	5.35	GREENHECK	EVH-501D	ALL

General Notes
1 PROVIDE FACTORY KYNAR COATING. COLOR TO MATCH WALL FINISHED COLOR.
2 PROVIDE INSECT SCREEN ON ALL INTAKE LOUVERS. PROVIDE BIRD SCREEN ON ALL EXHAUST LOUVERS.
3 ALL LOUVERS SHALL BE RATED FOR FLORIDA PRODUCT APPROVAL OF HIGH WIND SPEED UP TO 150 MPH

AIR DISTRIBUTION SCHEDULE

TYPE — A SIZE CFM — CONNECTION SIZE

TAG	SYMBOL	MOUNTING	DESCRIPTION
A	SEE PLANS FOR SIZE AND CFM	LOUVERED SURFACE MOUNT	Surface-mount Supply air diffuser. Si e and mount per plans. Connection to match si e listed on plan tag. Diffusers shall have ad ustable curved e truded aluminum louver vanes. The diffuser shall be finished in (01 White). Basis of design is METALAIRE - Model LM (W/ OBDA DAMPER)

REGISTERS, GRILLES AND DIFFUSERS PLANS SHALL HAVE A MINIMUM FLAME SPREAD RATING OF NOT OVER 25 AND A MINIMUM SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF. GRILLES, REGISTERS OR DIFFUSERS SHALL BE EQUIPPED WITH BALANCING DAMPERS WHERE BALANCING DAMPERS HAVE NOT BEEN INDICATED ON BRANCH DUCTS.

CALL TOM EDWARDS AT STAN WEAVER FOR ORDERING AND OTHER INFORMATION. 1-800-515-9244

LEGEND

SYMBOL	DESCRIPTION
	INDICATES DIRECTION OF AIRFLOW
TYPE — A 6"Ø — AIRFLOW 100 — CONNECTION SIZE	USE TO IDENTIFY SUPPLY, RETURN OR EXHAUST GRILLE VALUES AND TYPE
T	THERMOSTAT
SD	SMOKE DETECTOR
TS (X)	TEMPERATURE SENSOR X= ZONE CONTROLLED
H	HUMIDISTAT (DIGITAL)
FD	GREENHECK STATIC FIRE DAMPER WITH ACCESS DOOR SEE ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS
FSD	GREENHECK FIRE-SMOKE DAMPER WITH ACCESS DOOR (24V ACTUATOR) SEE ARCHITECTURAL LIFE SAFETY PLANS FOR FIRE RATED WALL LOCATIONS
	CEILING SUPPLY DIFFUSER
	RETURN GRILLE OR DUCT DOWN/UP
	EXHAUST GRILLE OR DUCT DOWN/UP
CDP	CONDENSATE PUMP WITH SAFETY FLOAT SWITCH TO DE-ENERGIZE MAIN AC IN CASE OF OVERFLOW MODEL: LITTLE GIANT VCMA-15 OR EQUAL
(TAG SERVING)	REMOTE SMOKE ALARM INDICATION STATION WITH LIGHT
	INILINE DRYER BOOSTER FAN (FANTECH DBF-110)
	SIDEWALL SUPPLY DIFFUSER
	TERMINAL UNIT VARIABLE/CONSTANT AIR VOLUME
	TERMINAL UNIT VARIABLE/CONSTANT AIR VOLUME WITH HOT WATER HEAT

THIS IS A GENERAL LIST OF SYMBOLS. ALL SYMBOLS MAY NOT BE USED ON A SPECIFIC PROJECT

ABBREVIATIONS

AC	AIR CONDITIONING	F	FAHRENHEIT	PRESS	PRESSURE
ACH	AIR CHANGES PER HOUR	FA	FILTER ACCESS	PVC	POLYVINYLCHLORIDE
AD	ACCESS DOOR	FACP	FIRE ALARM CONTROL PANEL	RA	RETURN AIR
AFF	ABOVE FINISHED FLOOR	FCD	FLOW CONTROL DAMPER	RD	ROOF DRAIN
AG	ABOVE GRADE	FCU	FAN COIL UNIT	REF	REFRIGERANT
AHU	AIR HANDLING UNIT	FD	FIRE DAMPER	RG	RETURN GRILLE
AI	ANALOG INPUT	FSD	FIRE SMOKE DAMPER	RL	RAIN LEADER
AO	ANALOG OUTPUT	FL	FLOOR	RLA	RUNNING LOAD AMPS
AP	ACCESS PANEL	FLA	FULL LOAD AMPACITY	RPM	REVOLUTIONS PER MINUTE
APPROX	APPROXIMATELY	FPF	FINS PER FOOT	RS	REFRIGERANT SENSOR
BAS	BUILDING AUTOMATION SYSTEM	FPI	FINS PER INCH	RTU	ROOFTOP A/C UNIT
BDD	BACK DRAFT DAMPER	FPM	FEET PER MINUTE	RTU	ROOF TOP UNIT
BFF	BELOW FINISHED FLOOR	FPM	FINS PER MINUTE	SA	SUPPLY AIR
BHP	BRAKE HORSE POWER	FSD	FIRE/SMOKE DAMPER	SD	SUPPLY DIFFUSER
BOD	BOTTOM OF DUCT	GPH	GALLONS PER HOUR	SD	FIRE STAT
BOT	BOTTOM	GPM	GALLONS PER MINUTE	SD	SMOKE DETECTOR
BTU	BRITISH THERMAL UNIT	H	HUMIDITY	SEN	SENSIBLE
CAP	CAPACITY	HC	HEATING COIL	SG	SUPPLY GRILLE
CC	COOLING COIL	HP	HORSEPOWER	SP	STATIC PRESSURE
CD	CONDENSATE DRAIN	HHWR	HEATING HOT WATER RETURN	STRUCT	STRUCTURAL
CFM	CUBIC FEET PER MINUTE	HHWS	HEATING HOT WATER SUPPLY	SYS	SYSTEM
CHWR	CHILLED WATER RETURN	HZ	HERTZ	T	TEMPERATURE
CHWS	CHILLED WATER SUPPLY	IN-H20	INCHES OF WATER	TSP	TOTAL STATIC PRESSURE
CLG	CEILING	KW	KILOWATT	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	LAT	LEAVING AIR TEMPERATURE	UC	UNDERCUT
CONN	CONNECTION	LAT	LATENT	UG	UNDERGROUND
CT	COOLING TOWER	LD	LOUVERED DOOR	UL	UNDERWRITERS LABORATORY
CU	CONDENSING UNIT	LPC	LOW PRESSURE CONDENSATE	UON	UNLESS OTHERWISE NOTED
DB	DRY BULB	LPS	LOW PRESSURE STEAM	UV	UNIT VENTILATOR
DDC	DIRECT DIGITAL CONTROL	LRA	LOCKED ROTOR AMPS	VAV	VARIABLE AIR VOLUME
DG	DOOR GRILLE	LVG	LEAVING	VD	VOLUME DAMPER
DI	DIGITAL INPUT	LWT	LEAVING WATER TEMPERATURE	VFD	VARIABLE FREQUENCY DRIVE
DN	DOWN	MAX	MAXIMUM	WB	WET BULB
DO	DIGITAL OUTPUT	MBH	1000xBTU		
DP	DEW POINT	MCA	MINIMUM CIRCUIT AMPACITY		
DX	DIRECT EXPANSION	MEZZ	MEZZANINE		
EA	EXHAUST AIR	MIN	MINIMUM		
EAT	ENTERING AIR TEMPERATURE	MISC	MISCELLANEOUS		
EA	EXHAUST AIR	NC	NORMALLY CLOSED		
EER	ENERGY EFFICIENCY RATIO	NIC	NOT IN CONTRACT		
EF	EXHAUST FAN	NO	NORMALLY OPEN		
EG	EXHAUST GRILLE	NTS	NOT TO SCALE		
EL	ELEVATION	OA	OUTSIDE AIR		
ELEC	ELECTRICAL	OAI	OUTSIDE AIR INTAKE		
ENT	ENTERING	OAL	OUTSIDE AIR LOUVER		
EQUIP	EQUIPMENT	OC	ON CENTER		
ESP	EXTERNAL STATIC PRESSURE	PD	PRESSURE DROP		
ET	EXPANSION TANK	PKU	PACKAGE UNIT		
EXH	EXHAUST	PH	PHASE		
EXIST	EXISTING	POC	POINT OF CONNECTION		

THIS IS A GENERAL LIST OF ABBREVIATIONS AND MAY NOT BE USED ON A SPECIFIC PROJECT. IF AN ABBREVIATION IS USED ON A PROJECT AND IS NOT REPRESENTED IN THIS LIST, CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION.

DUCTWORK LEGEND

SYMBOL DOUBLE LINE	DESCRIPTION
	FLEXIBLE DUCTWORK
	EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED.
	EXISTING DUCTWORK TO REMAIN NEW DUCTWORK
	MANUAL VOLUME DAMPER (MVD) MOTOR OPERATED DAMPER (MOD)
AD AD	ACCESS DOOR
	RADIUS ELBOW (R=1.5)
	VANED ELBOW
	BRANCH DUCT TAKE-OFF
DN UP	RISE OR DROP DIRECTION OF AIR FLOW
	CHANGE FROM RECTANGULAR TO ROUND DUCT ON SINGLE LINE DUCT
	CHANGE IN SIZE OF DUCTWORK (CONCENTRIC)
	CHANGE IN SIZE OF DUCTWORK (ECCENTRIC)
	SPIN IN FITTING WITH MANUAL VOLUME DAMPER
	OPPOSED BLADE CONTROL DAMPER WITH ACTUATOR
	PARALLEL BLADE CONTROL DAMPER WITH ACTUATOR

THIS IS A GENERAL LIST OF SYMBOLS. ALL SYMBOLS MAY NOT BE USED ON A SPECIFIC PROJECT

PIPING LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CD	CONDENSATE LINE
	REFRIGERANT PIPNG
HHWS	HEATING HOT WATER SUPPLY
HHWR	HEATING HOT WATER RETURN
	PIPE REDUCER
	PIPE UNION
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BALL VALVE
	PLUG VALVE
	BUTTERFLY VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	SAFETY OR PRESSURE RELIEF VALVE
	VALVE IN RISER
	DIRECTION OF FLOW
	TOP CONNECTION, 45 OR 90 DEGREES
	BOTTOM CONNECTION, 45 OR 90 DEGREES
	SIDE CONNECTION
	CAPPED OUTLET
	DROP IN PIPING
	RISE IN PIPING
	SOLENOID VALVE
	OUTSIDE SCREW AND YOKE
	WATER FLOW MEASURING DEVICE
	ANGLE GLOBE VALVE
	PRESSURE GAUGE
	STRAINER WITH BALL VALVE
	EXPANSION JOINT
M	BTU FLOW METER

COALITION FOR THE HOMELESS - MECHANICAL		
Number	Sheet Name	PERMIT
M0.01	MECHANICAL GENERAL INFORMATION	X
M1.01	MECHANICAL PLANS	X

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ORANGE COUNTY GOVERNMENT FLORIDA

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Deficiency Repairs

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Engineer of Record
DALRIO ARTNEL LEWIS LICENSE No.77571 STATE OF FLORIDA PROFESSIONAL ENGINEER
05/30/2017
Dalrio Lewis, PE 77571 (FL)

PERMIT DOCUMENTS

no.	revision	date
1	PERMIT COMMENTS	07.10.2017

scale:	AS NOTED
drawn:	D.L.
check:	D.L.
date:	05/30/17
project no:	12002.0031

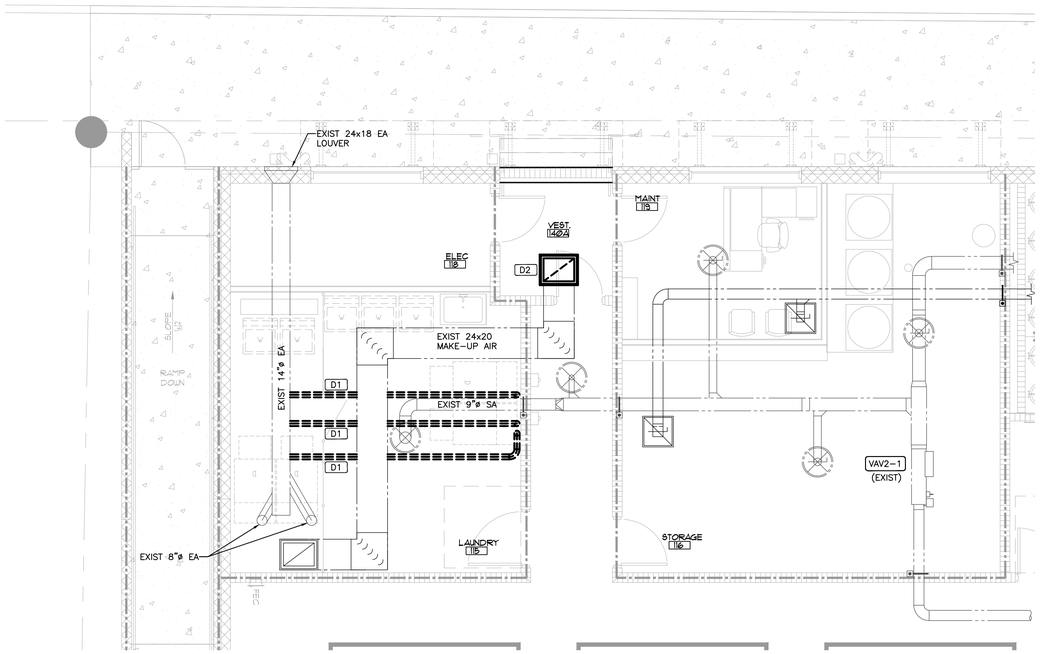
MECHANICAL - GENERAL INFORMATION

M0.01

DEMOLITION PLAN NOTES: D#

D1 REMOVE AND DISCARD EXISTING EA DUCT IN ITS ENTIRETY AS SHOWN. CAP AND SEAL EXIST EA DUCT MAIN.

D2 REMOVE AND DISCARD EXISTING MAKE-UP AIR LOUVER. PREPARE EXISTING DUCTWORK FOR RECONNECTION.



1 MECHANICAL DEMO PLAN

NORTH

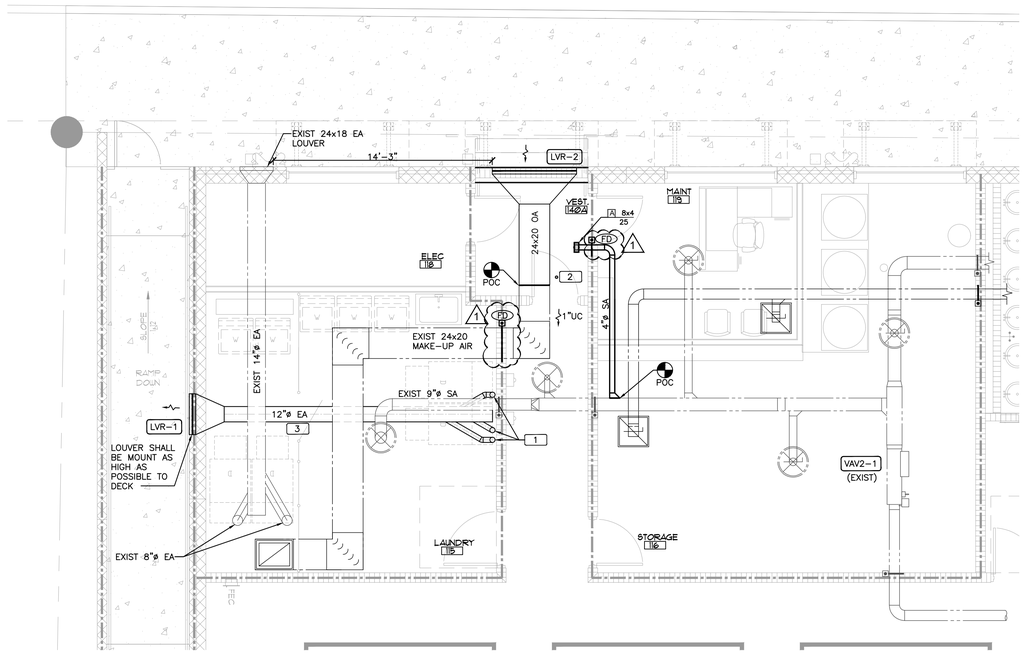
0 2' 4' 8' 12'
1/4" = 1'-0"

KEY PLAN NOTES:

1 ROUTE 4"ø EA UP FROM GAS DRYERS. PROVIDE BACKDRAFT DAMPER KIT (MAYTAG PART NO. 3391910) FOR EACH DRYER.

2 REMOVE EXISTING SPRINKLER HEAD, EXTEND SPRINKLER PIPE TO NEW CEILING AND PROVIDE NEW CONCEALED SPINKLER HEAD.

3 PAINT EA DUCT WITH HIGH TEMP PAINT TO MATCH EXISTING CEILING.



2 MECHANICAL NEW PLAN

NORTH

0 2' 4' 8' 12'
1/4" = 1'-0"

PROVIDE INTEGRAL SMOKE DETECTOR

GREENHECK Model FSD-231

Combination Fire Smo□e Dampers
Steel 3-V Blades
UL 555S Leakage Class I
UL 555 3 Hour Fire Resistance Rating

Application

Model FSD-231 is a combination fire smo□e damper with 3V style blades. The FSD-231 has been □ualified to 2000 fpm (10.2 m/s) and 6 in. wg (1.5 □Pa) for operation and dynamic closure in emergency fire smo□e situations. Model FSD-231 may be installed vertically (with blades running hori□ontal) or hori□ontally and is rated for airflow and lea□age in either direction.

Ratings

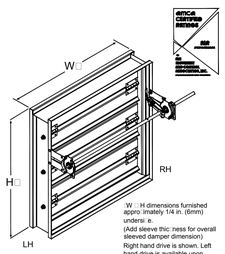
UL 555 Fire Resistance Rating
Fire Rating: 3 Hours
Dynamic Closure Rating: Actual ratings are si□e dependant
Ma□imum Velocity: 2000 fpm (10.2 m/s)
Ma□imum Pressure: 6 in. wg (1.5 □Pa)
UL 555S Lea□age Rating
Lea□age Class: I
Operational Rating: Actual ratings are actuator dependant
Ma□imum Velocity: 2000 fpm (10.2 m/s)
Ma□imum Pressure: 6 in. wg (1.5 □Pa)
Ma□imum Temperature: 350°F (177°C)—Depending on actuator

Model FSD-231 meets the re□uirements for fire dampers, smo□e dampers and combination fire smo□e dampers established by:
National Fire Protection Association
NFPA Standards 80, 90A, 92A, 92B, 101 □ 105
IBC International Building Codes
New Yor□City (MEA Listing □260-91-M)
CSFM California State Fire Marshal
Listing □: 3225-0981:103, 3230-0981:104

"UL CLASSIFIED (see complete marking on product)"
"UL CLASSIFIED to Canadian safety standards (see complete marking on product)"
Standard 555 □ 555S (Listing □R13317)

Construction	Standard	Optional
Frame Material	Galvani□ed steel	-
Frame Material Thic□ness	16 ga. (1.5mm)	-
Frame Type	5 in. □1in. (127mm □25mm) hat channel	-
Blade Material	Galvani□ed steel	-
Blade Material Thic□ness	16 ga. (1.5mm)	-
Blade Type	3V	-
Lin□age	Plated steel out of airstream, concealed in □amb	-
A□le Bearings	Bron□e	304SS
A□le Material	Plated steel	-
Blade Seals	Silicone	-
Jamb Seals	304SS	-
Closure Device	RRL	RRL/OCI, TOR, PRV, or Fusible Lin□
Closure Temperature	165°F (74°C)	212°F (100°C), 250°F (121°C), 350°F (177°C)

W x H	Minimum Size	Maximum Size	
		Single Section	Multiple Section
Inches	8 □6	32 □48 or 36 □36	72 □48
mm	203 □152	813 □1219 or 914 □914	1829 □1219



W □ H dimensions furnished approximately 1/4 in. (6mm) undersi□e.
(Add sleeve thic□ness for overall sleeved damper dimension)
Right hand drive is shown. Left hand drive is available upon re□uest.

FEATURES:

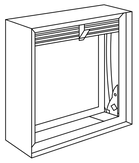
- Frames are constructed with reinforced corners. Low profile head and sill are used on si□es less than 17 in. high (432mm).
- Blades are reinforced with 3 longitudinal structurally designed vee's.

Installation Instructions available at www.greenhec□.com

GREENHECK
Building Value in Air.

Document Number 452763
FD, DFD, SSFD, SSDFD, & KFD Models
*11/2 and 3 Hour Curtain Fire Dampers
Vertical and Horizontal Mount

Installation, Operation and Maintenance Instructions



FD, DFD, SSFD, & KFD models are intended for installation in accordance with fire damper requirements established by:
National Fire Protection Association
NFPA Standard 80, 90A, & 101
IBC International Building Code
CSFM California State Fire Marshal
Fire Damper Listing (#3225-0981:102)
New York City (BSA/MEA listing #260-91-M)

"UL CLASSIFIED (see complete marking on product)"
"UL CLASSIFIED to Canadian safety standards (see complete marking on product)"
UL Standard 555 (Listing #R13317)

SAFETY WARNING:
Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

WARRANTY
Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the shipment date. Any units or parts which prove to be defective during the warranty period will be repaired or replaced at our option. Greenheck shall not be liable for damages resulting from misapplication or misuse of its products. Greenheck will not be responsible for any installation or removal costs. Greenheck will not be responsible for any service work or backcharges without prior written authorization.

RECEIVING AND HANDLING
Upon receiving dampers, check for both obvious and hidden damage. If damage is found, record all necessary information on the bill of lading and file a claim with
the final carrier. Check to be sure that all parts of the shipment, including accessories, are accounted for.
Dampers must be kept dry and clean. Indoor storage and protection from dirt, dust and the weather is highly recommended. Do not store at temperatures in excess of 100°F (38°C).

INSTALLATION SUPPLEMENTS:
Refer to the appropriate Greenheck installation supplements for special requirements:

- Close Indicator Switch
- Concrete Floor with Steel Deck
- Drive Slip Breakaway Connection
- Fire Resistant Ventilated Duct Assembly
- Firestop Material
- Greenheck Test Switch
- Grille Installation
- Metal Stud in Shaftwall
- Quick Connect Breakaway Connections
- Sealant Supplement
- Single Side Retaining Angle
- Single 3-Sided Retaining Angle - Vertical Mount
- Sleeve Extension
- Support Mullions

Note:
Refer to Greenheck IOM, Part #461335, for CFSD models to be installed in corridor ceiling applications.

These instructions apply to 11/2 and 3 hour rated fire dampers mounted (blades must be horizontal) in masonry, block or stud walls and concrete floors. Specific requirements in these instructions are mandatory. These instructions meet the requirements of UL 555. Installation shall comply with the requirements of NFPA 90A Standard for the Installation of Air Conditioning and Ventilating Systems. UL listing R13317, California State Fire Marshal listings 3225-0981:102, and New York City BSA/MEA listing 260-91-M apply to these dampers.
Note: Fire dampers are manufactured and labelled for either vertical or horizontal installation. The dampers must be installed in accordance with the labelling.

Due to continuing research, Greenheck reserves the right to change specifications without notice.

This manual is the property of the owner, and is required for future maintenance. Please leave it with the owner when the job is complete.

Example:
A 12 in. x 12 in. (305mm x 305mm) damper would re- quire a minimum clearance of 1/4 in. (6mm) on width and 1/4 in. (6mm) on height
A 48 in. x 12 in. (1219mm x 305mm) damper would require a minimum clearance of 1/2 in. (13mm) on width and 1/4 in. (6mm) on height

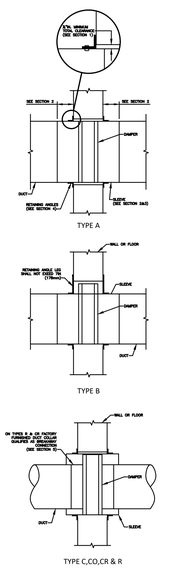
2.GAUGES AND LENGTHS OF FIRE DAMPER SLEEVES
All fire dampers must be installed in a steel sleeve of the required gauge and length. See Table 1 for required minimum sleeve gauges. Maximum sleeve thickness is 10 gauge (3.5mm). Sleeve inside dimensions must equal damper outside dimensions.

Sleeves shall extend a maximum of 6 in. (152mm) beyond the wall or floor opening on each side (see Figure 1). When an access door is incorporated as a part of sleeve, the sleeve may extend a maximum of 16 in. (406mm) beyond the wall or floor opening on the access door side.

Sleeve Gauge	Duct Dimension	Type of Duct to Sleeve Connection Permitted
14 ga. (0.075 in.)- 10 ga. (0.138in.) [2mm - 3.5mm]	All Duct Sizes	Rigid or Breakway
16 ga. (0.060 in.) [1.5mm]	36 in. (914mm) max. width24 in. (610mm) max. width24 in. (610mm) diameter	Rigid or Breakway
16 ga. (0.060 in.) [1.5mm]	All Duct Sizes	Breakway only
18 ga. (0.048 in.) [1.2mm]	85 in. (2159mm) wide and over	
20 ga. (0.036 in.) [0.9mm]	55 in. - 84 in. wide (1397mm - 2134mm)	
22 ga. (.030 in.) [0.76mm]	31 in. - 54 in. wide (787mm - 1372mm)	
24 ga. (0.024) [0.6mm]	13 in. - 30 in. wide (330mm - 762mm)	
26 ga. (0.018 in.) [0.46mm]	12 in. wide and under (305mm)	
Sleeve thickness must not be less than the gauge of the connecting duct. UL Standard 555 requires all ducts to terminate at fire damper sleeves.		

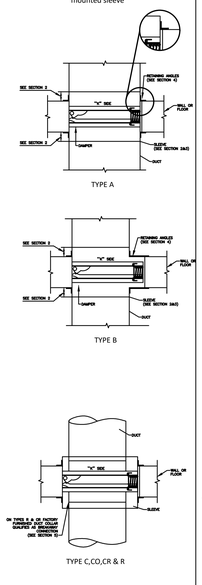
Table 1: Minimum sleeve thickness for fire dampers.

Vertical mount without factory mounted sleeve



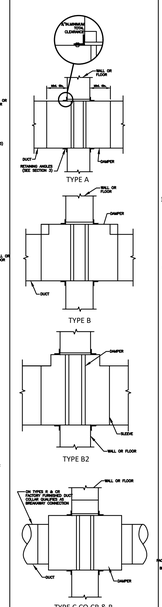
When damper installed vertically, the blade stack must be on the top.

Horizontal mount without factory mounted sleeve



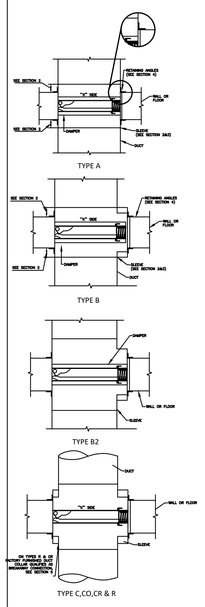
When dampers installed horizontally, the ramp must be positioned up as shown in above drawings.

Vertical mount with factory mounted sleeve



When dampers installed vertically, the blade stack must be on the top.

Horizontal mount with factory mounted sleeve



When dampers installed horizontally, the ramp must be positioned up as shown in above drawings.

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LICENSE No.77571 STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/30/2017
Dalrio Lewis, PE 77571 (FL)

PERMIT DOCUMENTS

no.	revision	date
1	PERMIT COMMENTS	07.10.2017

scale:	AS NOTED
drawn:	D.L.
check:	D.L.
date:	05/30/17
project no:	12002.0031

MECHANICAL PLANS

M1.01

Preparation of Openings

- Frame wall openings as shown below (see Figure 1 & 2).
- Gypsum wall board must be fastened 12 in. (305mm) on center to all stud and runner flanges surrounding opening.
- Prepare opening between studs and sleeve assembly as shown below (see Figure 3 & 4).
- All construction and fasteners must meet the requirements of the appropriate wall design (See UL Fire Resistance Directory) and/or local codes.

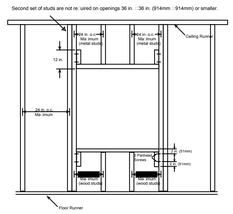


Figure 1

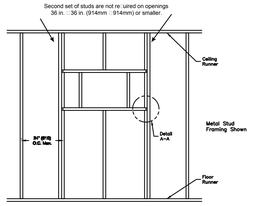
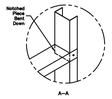


Figure 2



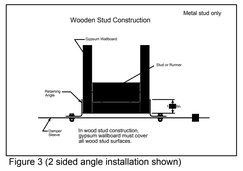


Figure 3 (2 sided angle installation shown)

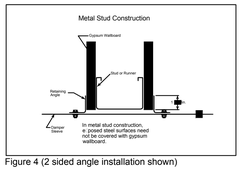


Figure 4 (2 sided angle installation shown)

Wooden Stud Construction

Clearances Required Between Damper Sleeves & Wall/Floor Openings

Two-sided Angle Installation

Two sided angle installations re□uire clearances for thermal e□pansion between the damper sleeve and the wall/floor opening. The minimum re□uired clearances are:

- For galvanized steel fire dampers and sleeves: 1⁄8 in. per foot (3mm per .3 m) of damper width and 1⁄8 in. per foot (3mm per .3 m) height with a minimum clearance of 1⁄4 in. (6mm), maximum of 1 1⁄2 in. (38mm).
- For stainless steel fire/smoke dampers and stainless steel or galvanized sleeves: 3⁄16 in. per foot (5mm per .3 m) of damper width and height with a minimum clearance of 1/4 in. (6mm), ma□imum of 2 in. (51mm).

These are total clearances (ignoring fastener heads) and do not need to be e□ually spaced around the damper.

Example:

A 12 in. □12 in. (305mm □305mm) will re□uire a minimum clearance of 1/4 in. (6mm) width and 1/4 in. (6mm) on height

A 48 in. □12 in. (1219mm □305mm) damper will re□uired a minimum clearance of 1⁄2 in. (13mm) on width and 1/4 in. (13mm) on height.

Although the minimum re□uirements are listed above, for ease of installation the following are the recommended clearances for galvani□ed dampers:

- Width/Height of 48 in. (1219 mm) or less - 1⁄2 in. (13mm) clearance
- Width/Height between 48.01 in. (1220 mm) and 96 in. (2438 mm): 1 in. (25mm) clearance
- Width/Height greater than 96 in. (2438 mm): 1 1⁄2 in. (38 mm) clearance

Single Side Angle Installation

On vertical mount single side angle installations there are no minimum clearance re□uirements between the wall opening and the damper sleeve. However, to facilitate installation, clearances between the wall opening and the damper sleeve are recommended.

On hori□ontal mount single side angle installations a minimum clearance is re□uired between the outside of the damper sleeve and the floor opening of 1⁄8 in. per foot (3mm per .3m) of damper width and 1⁄8 in. per foot (3mm per .3m) height with a minimum clearance of 1/4 in. (6mm).

Sleeve Requirements

All fire dampers must be installed in a steel sleeve of the re□uired gauge and length. Note that DFD-150X and FD-150X series dampers are provided with an integral sleeve. See Table on page 10 for re□uired minimum sleeve gauges. Ma□imum sleeve thic□ness is 10 gauge (3.5mm). Sleeve inside dimensions must e□ual damper outside dimensions.

Sleeves shall e□tend a ma□imum of 6 in. (152mm) beyond the wall or floor opening on each side. When a factory mounted access door is incorporated as a part of the sleeve the sleeve may e□tend a ma□imum of 16 in. (406mm) beyond the wall or floor opening on the access door side.

Fire dampers must be attached to sleeves as shown in Figure 6. All four sides of the damper frame must be attached to the sleeve with one row of attachments on each side of the blade channel. Attachments must be spaced a ma□imum of 6 in. (152mm) on centers and a ma□imum of 2 in. (51mm) from corners. A minimum of 4 attachments (2 on each side of the blade channel) per side (16 per damper) are re□uired. One of the methods of attachment shown below must be used:

- tack or spot welds
- #10 sheet metal screws
- 1⁄4 in. (6mm) bolts and nuts
- 3⁄16 in. (4.7mm) steel pop rivets

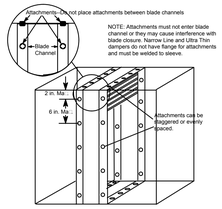


Figure 6: Field attachment of fire dampers to sleeves.

Securing the Damper/Sleeve Assembly to Wall/Floor Openings

The fire damper must be installed such that the centerline of the blades are mounted in the plane of the wall or floor.

All fire dampers may utili□e the two sided angle installation method described below. 1 1⁄2 hour rated fire dampers may use the single sided angle installation method up to the following ma□imum si□es:

- Vertical mount: 80 in. W x 50. in. H (2032mm W x 1270mm H), 50 in. W x 80 in. H (1270mm W □2032mm H), or 40 in. W □100 in. H (1016mm W □2540mm).
- Horizontal mount: 144 in. W x 96 in. H (3658mm W x 2438mm H)

- Retaining Angle Gauge: Retaining angles for 1 1⁄2 hour rated dampers with a width and height 48 in. (1219mm) or less must be a minimum of 20 ga. (1mm). Retaining angles for all 3 hour rated dampers and all dampers with a width or height greater than 48 in. (1219mm) must be a minimum of 16 gauge (1.5mm).
- Retaining Angle Size: The leg of the retaining angle on the damper sleeve shall be a minimum of 11/4 in. (32mm). The leg of the retaining angle on the wall/floor shall be long enough to cover the annular space and overlap the wall/floor by a minimum of 1 in. (25mm).
- Retaining Angle Attachment to Sleeve: Retaining angles must be attached to the damper using one or more of the following methods of attachment (refer to label on outside of sleeve for 'No Screw' area):
  - Tac□or spot welds
  - □10 (3⁄4 in. [19mm] max.) sheet metal screws
  - 1⁄4 in. (6mm) bolts and nuts
  - 3⁄16 in. (5mm) steel pop rivets

A minimum of two connections per side, top, and bottom, 12 in. (305mm) O.C. ma□imum for openings of 48 in. W □36 in. H (1219mm □914mm) and less. Dampers greater than 48 in. wide (1219mm) or 36 in. high (914mm) re□uire the connections to be no more than 6 in. (152mm) O.C.

The angles must be attached to all 4 sides of the sleeve. Ensure that fasteners do not interfere with the operation of the damper. The angles need not be attached to each other at the corners.

• Retaining Angle Attachment to Wall/Floor:

Two sided Angle Method: For two sided angle installations the retaining angles shall not be attached to the wall/floor **(see Figure 7).**

Single Sided Angle Method: For single side installations the retaining angles must be attached to the wall/floor (see Figures 8-11). For metal stud partitions only, the single-side mounting angle may be directly attached to the metal stud prior to the installation of the drywall.

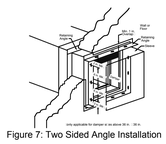


Figure 7: Two Sided Angle Installation

- Retaining angles must be attached to the partition using one of the methods shown below:
  - Drywall screws of a length such that the screw engages the steel stud/track by 1⁄2 in. (13mm) (steel framing).
  - Drywall screws of a length such that the screw engages the wood stud by 13/4 in. (44mm) (wood framing).
  - Steel anchors or self tapping concrete screws penetrating masonry or bloc□11/4 in. (31mm).
- A minimum of two connections per side are required. Additional connections made at a maximum of 12 in. (305mm) O.C. ma□imum for openings of 48 in. W □36 in. H (1219mm □914mm) and less. Dampers greater than 48 in. wide (1219mm) or 36 in. high (914mm) re□uire the connections to be no more than 6 in. (152mm) O.C.

Securing the Damper/Sleeve Assembly to Wall/Floor Openings cont.....

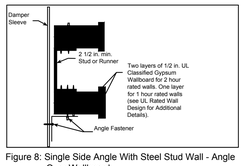


Figure 8: Single Side Angle With Steel Stud Wall - Angle Over Wallboard

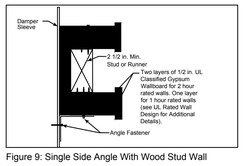


Figure 9: Single Side Angle With Wood Stud Wall

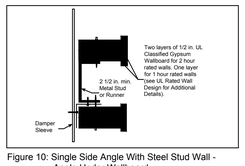


Figure 10: Single Side Angle With Steel Stud Wall - Angle Under Wallboard

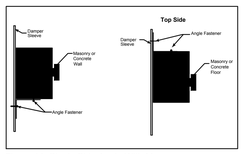


Figure 11: Single Side Angle With Masonry or Concrete Wall and Floor

Grille Installations (Dampers up to 36 in. x 36 in. [914mm x 914mm])

Retaining angles used in con□unction with grille installations must be a minimum of 5⁄8 in. □1 in. (15mm □25mm) 16 gauge (1.5mm) steel. Space screws a ma□imum of 6 in. (152mm) on center and a ma□imum of 2 in. (51mm) from the corners (minimum of 2 screws per side). See Figure 12 and Figure 13.

Note: Screws used to attach grille are allowed to penetrate reversed angle leg.

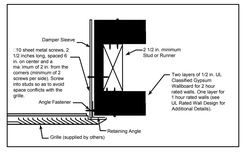


Figure 12: Wood Stud - Grille

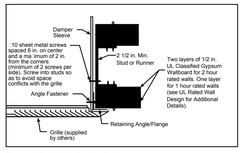


Figure 13: Metal Stud - Grille

Securing the Damper/Sleeve Assembly to Wall/Floor Openings cont.....

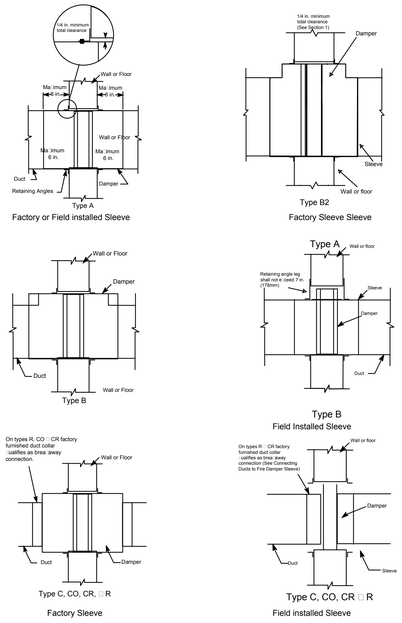


Figure 14: Damper/Sleeves with Transition

Duct to Sleeve Connection

Sleeve Gauge and Connection Type Requirements

The si□e of the damper/duct determines the re□uired sleeve gauge and the re□uired duct to sleeve connection (see table to the right). The sleeve thic□ness must also not be less than the gauge of the connecting duct. Any duct connection other than the brea□away connections described below are considered rigid.

Sleeve Gauge	Duct Dimension	Type of Duct to Sleeve Connection Permitted
14 ga. (0.075 in.) - 10 ga. (0.138 in.) □2mm - 3.5mm□	All duct si□es	Rigid or Brea□away
16 ga. (0.060 in.) □1.5mm□	36 in. (914mm) ma□ width 24 in. (610mm) ma□ height 24 in. (610mm) diameter	Rigid or Brea□away
16 ga. (0.060 in.) □1.5mm□	All duct si□es	Brea□away only
18 ga. (0.048 in.) □1.2mm□	85 in. (2159mm) wide and over	
20 ga. (0.036 in.) □0.9mm□	55 in. - 84 in□ wide (1397mm - 2134mm)	
22 ga. (.030 in.) □0.76mm□	31 in. - 54 in□ wide (787mm - 1372mm)	
24 ga. (0.024) 0.6mm□	13 in. - 30 in□ wide (330mm - 762mm)	
26 ga. (0.018 in.) 0.46mm□	12 in□ wide and under (305mm)	
See Brea□away Connection section for additional information. UL Standard 555 re□uires all ducts to terminate at fire damper sleeves.		

Approved Breakaway Connections

All brea□away connections described below may utili□e the following duct sealants: PA2084T duct sealant adhesive manufactured by Precision, DP1010 water base duct sealant manufactured by Design Polymetrics, Grey Poo□ie, Ductmate PROseal®, or CL Ward S Seal in accordance with SMACNA recommendations.

Transverse Joints

The transverse □oints shown below are approved as brea□away connections.

- A maximum of two #10 (19mm) sheet metal screws on each side and on the bottom may be used. The screws should be located in the center of the slip poc□et and penetrate both sides of the slip poc□et.
- Dampers up to 20 inches (508mm) high may use transverse joints on the top and bottom and Drive Slip □oints (see Figure 16) on the sides.

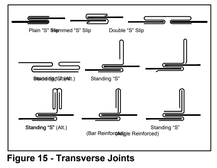


Figure 15 - Transverse Joints

Figure 16

Duct to Sleeve Connection cont....

Duct Damper

Type B

Round and Oval Duct Breakaway Connections

Round or flat oval ducts connected to Type R or O damper collars shall be attached with □10 (19mm) sheet metal screws as follows:

- Ducts up to 22 in. (558mm) wide (or dia.) and less shall have three screws.
- Ducts larger than 22 in. (558mm) wide (or dia.) up to and including 36 in. (914mm) wide (or dia.) shall have five screws.

Factory furnished duct collars, type R and O, are also **considered breakaway (see Figure 17).**

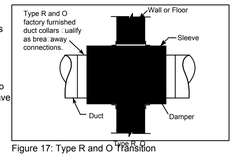


Figure 17: Type R and O Transition

Manufactured Flanged System Breakaway Connections

Flanged connection systems manufactured by Ductmate, Durodyne, Ward, Ne□us, Radiant T-35m, and MEZ are approved as brea□away connections when installed as illustrated (see Figure 18).

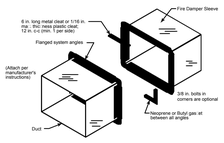


Figure 18

Proprietary Flange System Breakaway Connections

(TDC by Loc□former, TDF by Engle)

TDC and TDF systems are approved as brea□away connections when installed as described in the TDC or TDF addendum to the SMACNA Duct Construction. Standard 6 in. (152mm) metal clip may be used with spacing as **shown in diagram (see Figure 19 & 20). 3-3/8**in. (9.5mm) metal bolts and nuts may be used to fasten together corner **pieces (see Figure 21).**

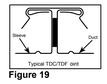


Figure 19

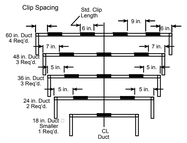


Figure 20

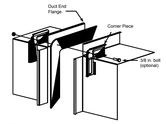


Figure 21

rhodes + brito
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ORLANDO, FL 32801
PH (407) 648 - 7288
FAX (407) 648 - 7289
AA0002809
www . rbarchitects . com

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Engineer of Record
DALRIO ARTNEL LEWIS
LICENSE No.77571
STATE OF FLORIDA
PROFESSIONAL ENGINEER
05/30/2017
Dalrio Lewis, PE 77571 (FL)

PERMIT DOCUMENTS

no.	revision	date
1	PERMIT COMMENTS	07.10.2017

scale:	AS NOTED
drawn:	D.L.
check:	D.L.
date:	05/30/17
project no:	12002.0031

MECHANICAL DETAILS

M2.01 (1)

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER & PART NUMBER	DESCRIPTION	VOLTAGE	WATTS
A	LITHONIA 2FSL2 33L EZ1 LP835	2'X2' RECESSED LIGHT FIXTURE	MVOLT	34.6W

1. CONTRACTOR SHALL PROVIDE SUBMITTAL OF ALL FIXTURES TO OWNER AND ARCHITECT. SUBMITTAL SHALL BE APPROVED BY OWNER, ARCHITECT AND ENGINEER PRIOR TO ORDERING ANY FIXTURES. IT IS THE RESPONSIBILITY OF THE LIGHTING VENDOR TO ENSURE OWNER & ARCHITECT HAVE SIGNED OFF ON SUBMITTALS. MILAN ENGINEERING WILL NOT BE RESPONSIBLE FOR DESIGN INTENT OF FIXTURES NOT MEETING OWNER'S OR ARCHITECT'S EXPECTATIONS.
2. ANY SUBSTITUTION OF FIXTURES WILL REQUIRE A FULL PHOTOMETRIC ANALYSIS TO BE PROVIDED FOR ALL SUBSTITUTED AREAS. LIGHTING VENDOR/DISTRIBUTOR WILL BE RESPONSIBLE FOR GATHERING AND EVALUATING DATA TO MATCH INTENDED FIXTURE PHOTOMETRIC RESULTS. SUBSTITUTED FIXTURES WILL NOT BE APPROVED WITHOUT PHOTOMETRIC PROVIDED WITH SUBMITTAL.
3. ANY ADDITIONAL ENGINEERING COST FOR RE-WORK OR EXTRA SUBMITTAL EVALUATION FOR SUBSTITUTIONS SHALL BE PAID FOR BY GENERAL CONTRACTOR.

NOTE : PROVIDE QUICK DISCONNECT FOR BALLAST PER NEC 2008 410.73(G).

GENERAL ELECTRICAL NOTES

1. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION" (ANSI).
2. IT IS THE INTENT OF THESE ELECTRICAL DRAWING SHEETS TO CALL FOR FINISHED WORK; TESTED, AND READY FOR OPERATION. FOR THE ELECTRICAL WORK, "PROVIDE" IS AN ALL-INCLUSIVE TERM REQUIRING CONTRACTOR TO PROCURE, FABRICATE, FURNISH, INSTALL, MOUNT, WIRE, CONNECT AND SUPPLY ALL MATERIAL AND LABOR NECESSARY TO COMPLETE THE WORK TO THE ACCEPTANCE OF THE OWNER AND THE AUTHORITY HAVING JURISDICTION (AHJ).
3. ALL MATERIAL PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS, LISTED/LABELED FOR THE INTENDED PURPOSE BY UNDERWRITERS LABORATORY (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHJ,
4. ALL MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL INSPECT SITE FOR FIELD VERIFICATION OF ALL ASPECTS OF THE WORK PRIOR TO BIDDING.
6. ALL DISCREPANCIES ON DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO SUBMISSION OF BIDS. CONTRACTORS SUBMISSION OF A BID CONSTITUTES ACCEPTANCE OF ALL CONDITIONS INCLUDING FIELD CONDITIONS.
7. THE ELECTRICAL SHEETS ARE DIAGRAMMATICAL IN NATURE AND INDICATE THE GENERAL LOCATION OF OUTLETS, EQUIPMENT, AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING. ALTHOUGH THE DRAWINGS DO NOT NECESSARILY INDICATE THE ACTUAL ROUTES OF CONDUITS, WHERE INDICATED, THEY SHALL BE FOLLOWED AS CLOSELY AS PROPER COORDINATION WITH THE WORK OF OTHER TRADES AND SPACE WILL PERMIT. WHERE CONDUIT RUNS ARE NOT SHOWN ON THE DRAWINGS, COORDINATE CONDUIT RUNS WITH THE WORK OF OTHER TRADES AND STRUCTURE. SIMPLIFY INSTALLATION WHEREVER POSSIBLE, BUT SUBJECT TO APPROVAL BY THE ARCHITECT FOR VISUAL AND STRUCTURAL REASONS. IT IS NOT WITHIN THE SCOPE OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, BENDS, PULL BOXES, AND OBSTRUCTIONS. THE DRAWINGS ARE NOT INTENDED TO BE SCALED, REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS. IN CASE OF DISCREPANCY BETWEEN ELECTRICAL AND ARCHITECT SHEET SET FOR MOUNTING ELEVATIONS OR REFLECTED CEILINGS, FOLLOW ARCHITECT SHEETS.
8. MAINTAIN ON THE JOB SITE, IN GOOD CONDITION, ONE SET OF UP-TO-DATE ELECTRICAL DRAWINGS. PROGRESSIVELY, NEATLY, LEGIBLY, AND EXACTLY RECORD ON THESE DRAWINGS THE LOCATION OF ALL CONCEALED CONDUIT RUNS AND ALL WORK WHICH IS INSTALLED DIFFERENTLY THAN IN THE LOCATION AND MANNER INDICATED ON THE DRAWINGS. ON COMPLETION OF THE WORK, THE DRAWINGS SHALL BE TURNED OVER TO THE ARCHITECT FOR APPROVAL AND POSSESSION AS A PERMANENT AND COMPLETE RECORD DOCUMENT OF THE ELECTRICAL WORK.
9. WHEN FOLLOWED BY THE PHRASE "OR EQUAL", SPECIFIC MANUFACTURERS PRODUCTS ARE USED AS AS A BASIS OF DESIGN. ALTERNATE PRODUCT MAY BE PROVIDED IF APPROVED "AS EQUAL" BY THE ENGINEER OF RECORD AND THE AHJ.
10. FOR ALL ELECTRICAL & COMMUNICATIONS DEVICES AND CIRCUITS, CONTRACTOR SHALL FIELD VERIFY WITH OWNER AND COORDINATE WITH ALL OTHER TRADES FINAL LOCATION(S) PRIOR TO ROUGH IN.
11. PRIOR TO FINAL ACCEPTANCE, CLEAN ALL SWITCHES, CABINETS, DEVICE PLATES, FIXTURES, AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT,AND ENSURE THAT ALL PANEL BOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL MARKING AND IDENTIFICATION OF ALL EQUIPMENT, JUNCTION BOXES, AND OTHER ITEMS IS COMPLETED. REPAIR OR REPLACE, AS DIRECTED BY THE OWNER, ANY ITEMS DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES AT NO ADDITIONAL COST TO THE OWNER.
12. UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH OR UNDER THE SUPERVISION OF THE ARCHITECT/ENGINEER AND OR AHJ.
THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS. ETC. TO PERMIT INSPECTION AS REQUIRED.
13. ALL WORK SHALL MEET OR EXCEED THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, NATIONAL ELECTRIC CODE (NFPA 70), LOCAL ORDINANCES AND THE AUTHORITY HAVING JURISDICTION.
14. FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOM, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
15. COORDINATE WITH ALL MECHANICAL TRADES FOR SPACE REQUIREMENTS IN MECHANICAL ROOMS, CORRIDORS, SHAFTS, ABOVE CEILING, ETC. THIS INCLUDES SPACE ABOVE PANELS WHERE DUCTS AND PIPING ARE PROHIBITED.
16. FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS.
17. PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FAR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
18. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL CEILING MOUNTED EQUIPMENT.
19. CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN OR ABOVE COUNTERS WITH EXISTING EQUIPMENT AND EQUIPMENT FURNISHED.

ABBREVIATIONS

A	AMPERE
AF	AMPERE FRAME
AFC	AVAILABLE FAULT CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT (HVAC)
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AMPERE INTERRUPTING CAPACITY
AT	AMPERE TRIP
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT OR CONDUCTOR
CB	CIRCUIT BREAKER
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CU	CONDENSING UNIT (HVAC), COPPER
DS	DISCONNECT (SAFETY) SWITCH
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EL	EMERGENCY LIGHT (UNSWITCHED)
ELE	ELECTRICAL, ELECTRIC
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRICAL NONMETALLIC TUBING
EWH	ELECTRIC WATER HEATER
EX	EXISTING
FBC	FLORIDA BUILDING CODE
FDS	FUSED DISCONNECT (SAFETY) SWITCH
FLOUR	FLUORESCENT
FMC	FLEXIBLE METAL CONDUIT
FMT	FLEXIBLE METAL TUBING
GND	GROUND (ELECTRICAL)
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GWH	GAS WATER HEATER
HH	HAND HOLE
HID	HIGH INTENSITY DISCHARGE LIGHT
HP	HORSE POWER
HPS	HIGH PRESSURE SODIUM LIGHT
HZ	HERTZ (ELECTRICAL)
ICCB	INSOLATED CASE CIRCUIT BREAKER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
KWH	KILOWATT-HOUR
LTG	LIGHT, LIGHTING
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE LIGHT, MAN HOLE
MLO	MAIN LUGS ONLY
N, NEUT	NEUTRAL (ELECTRICAL)
NEC	NATIONAL ELECTRICAL CODE)
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSN.
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
P	POLE
PB	PULL BOX
PCB	POWER CIRCUIT BREAKER
PH	PHASE (ELECTRICAL)
PNL	PANEL
PNLB	PANELBOARD
PVC	PLASTIC CONDUIT
PWR	POWER (ELECTRICAL)
RCPT	RECEPTACLE
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETALLIC CONDUIT
RTU	ROOF TOP UNIT (HVAC)
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SH	SHIELDED
SW	SWITCH
SWBD	SWITCHBOARD
TEL	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
UPS	UNINTERRUPTABLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
V, VAC	VOLT, VOLT AC
W	WATT
WP	WEATHERPROOF
XFMR	POWER TRANSFORMER

NOT ALL ABBREVIATIONS ARE USED IN EVERY DESIGN

RENOVATION/DEMOLITION LEGEND

SYMBOL:	DESCRIPTION:
<E>	EXISTING TO REMAIN.
<R>	EXISTING TO BE RELOCATED.

CONDUIT RACEWAY & WIRING LEGEND

SYMBOL:	DESCRIPTION:
	RACEWAY CONDUIT CONCEALED ABOVE CEILING OR WITHIN WALL UNLESS OTHERWISE NOTED. EACH CIRCUIT SHALL CONSIST OF PHASE, NEUTRAL AND GROUND CONDUCTORS. EVERY CIRCUIT SHALL HAVE IT'S OWN INDIVIDUAL NEUTRAL. FOR LIGHTING CIRCUITS PROVIDE REQUIRED SWITCH LEGS TO ACHIEVE SWITCHING INDICATED ON PLANS.
A-1:3	HOME RUN TO PANEL ALL HOMERUNS SHALL BE #10 AWG, 3/4"C., MINIMUM. WIRING HOME RUN: LETTER INDICATES PANEL; NUMBER IS BRANCH CIRCUIT(S)
	GROUNDING CONDUCTOR.
	CONDUIT IN/UNDER SLAB OR UNDERGROUND.
UP	CONDUIT STUB-UP.

LIGHTING PLAN LEGEND

SYMBOL:	DESCRIPTION:
A A-11	LED FIXTURE. UPPER CASE LETTER DENOTES FIXTURE TYPE. REFER TO "LIGHTING FIXTURE SCHEDULE" FOR FIXTURE SPECIFICATIONS AND MOUNTING. CIRCUIT CONDUIT OR SIDE NUMBERING DESIGNATES WHICH PANEL BOARD/CIRCUIT FIXTURES ARE CONNECTED TO. (TYPICAL FOR ALL LIGHTING FIXTURES)
	CEILING MOUNTED DOWNLIGHT FIXTURE (UON IN LIGHT FIXTURE SCHEDULE)
OS	CEILING MOUNT OCCUPANCY SENSOR. MANUFACTURER: ACUITY CONTROLS. MODEL NO: CM PDT 9

POWER PLAN LEGEND

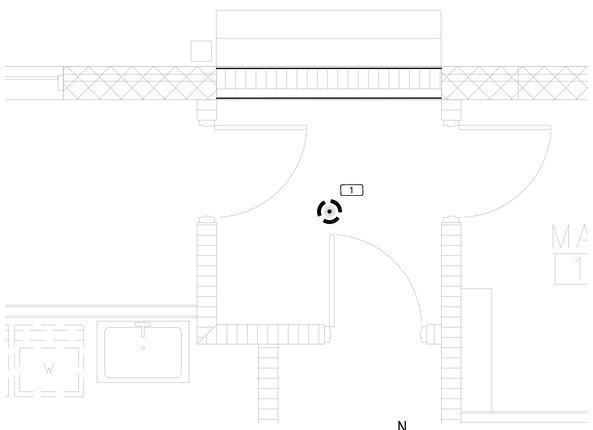
SYMBOL:	DESCRIPTION:
J	JUNCTION BOX WITH BLANK PLATE; BRACKET INDICATES WALL MOUNTED.
$M	MANUAL MOTOR STARTER, 125/277VAC, 20A, MOUNT 48" AFF UON.
	PANELBOARD (RECESSED FLUSH-MOUNTED UON).
XFMR KVA	TRANSFORMER (NON-UTILITY) NUMBER INDICATES KVA, EX: 45=45KVA
	DOOR RELEASE BUTTON
PS	POWER SUPPLY FOR DOOR CONTROL
K	KEYSWITCH. MANUFACTURER: SCHLAGE. MODEL NO: 653-04 X CYLINDER TO MATCH EXISTING
	ADA PUSHBUTTON (WIRELESS)
ES	ELECTRIC DOOR STRIKE LOCK. CONNECT TO REMOTE UNLOCKING RELEASE BUTTON UNDER RECEPTION DESK.

NOT ALL SYMBOLS ARE USED IN EVERY DESIGN

COALITION FOR THE HOMELESS DEFICIENCY PROJECT		
Number	Sheet Name	PERMIT
E0.01	ELECTRICAL GENERAL INFORMATION	X
E1.00	ELECTRICAL POWER PLANS	X
E2.00	ELECTRICAL SCHEDULES AND RISER DIAGRAM	X

DEMO PLAN NOTES

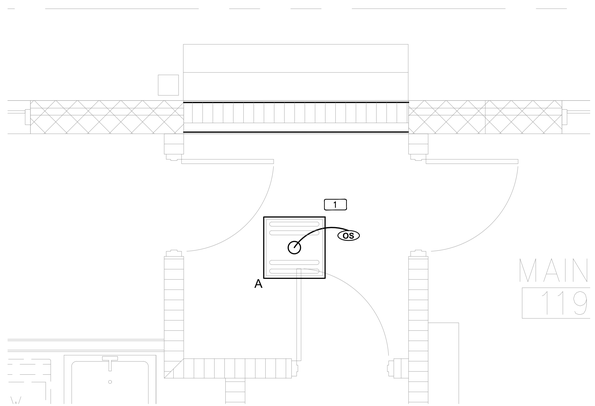
1. REMOVE AND DISCARD EXISTING LIGHT FIXTURE. EXISTING WIRING TO BE RECONNECTED TO NEW FIXTURE AS SHOWN ON THIS SHEET.



1 ELECTRICAL DEMO PLAN
SCALE: 1/2" = 1'-0"

KEY NOTES

1. CONNECT LIGHT FIXTURE TO NEAREST LIGHTING CIRCUIT. WIRE FIXTURE THROUGH NEW CEILING OCCUPANCY SENSOR.



2 ELECTRICAL NEW PLAN
SCALE: 1/2" = 1'-0"

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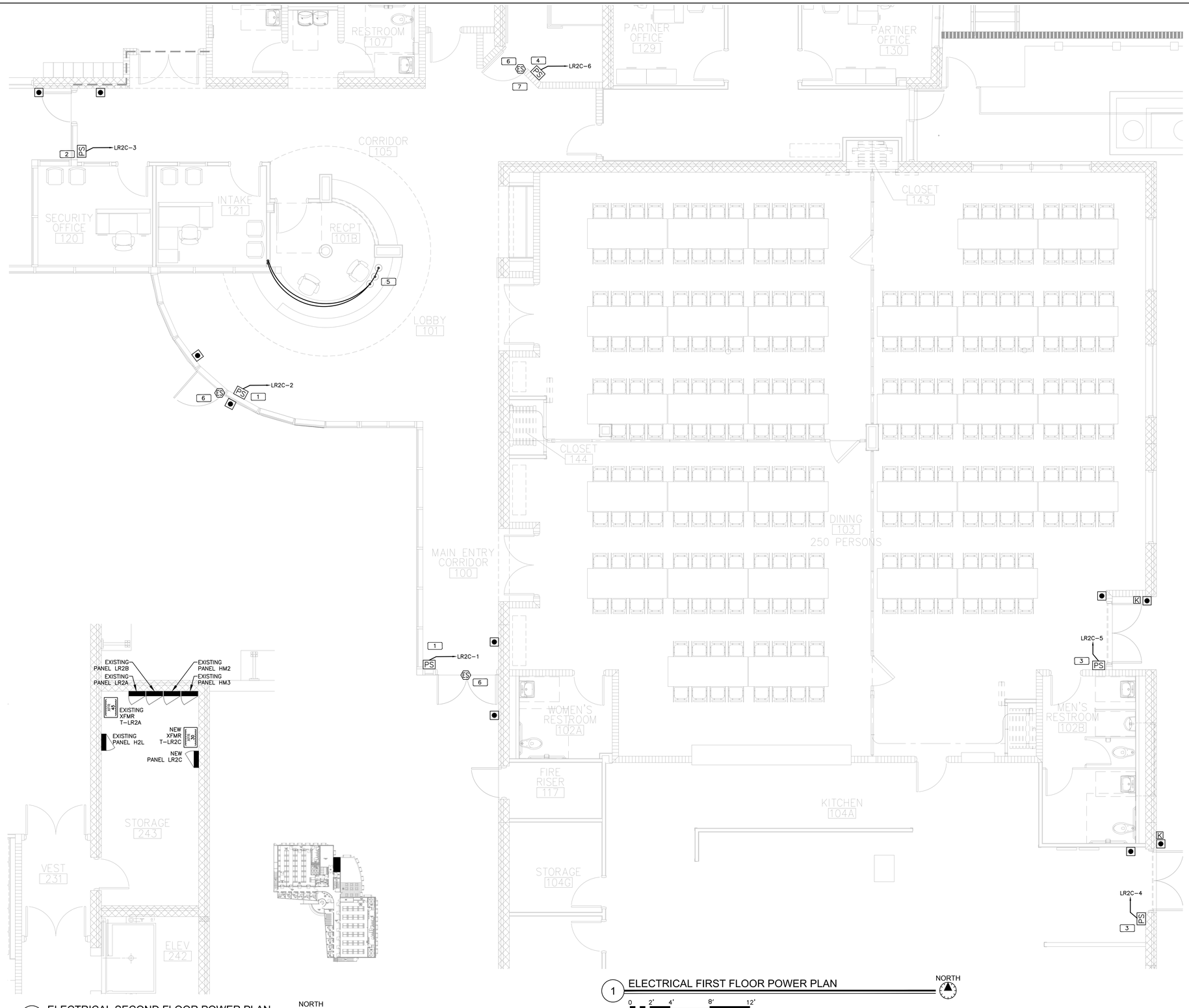
no.	revision	date

scale:	
drawn:	M.E
check:	MKS
date:	05/30/17
project no:	12002.0031

ELECTRICAL - GENERAL INFORMATION

E0.01



2 ELECTRICAL SECOND FLOOR POWER PLAN

NORTH

0 2' 4' 8' 12'

1/4" = 1'-0"

1 ELECTRICAL FIRST FLOOR POWER PLAN

NORTH

0 2' 4' 8' 12'

1/4" = 1'-0"

GENERAL NOTES

1. PAINT CONDUIT TO MATCH EXISTING CEILINGS.
2. VERIFY EXISTING PANIC HARDWARE PRIOR TO ORDERING.
3. PROVIDE FOR ALL NEW INSTALLATION DOOR HARDWARE FIRE ALARM RELAY AND NECESSARY COMPONENTS TO RELEASE LOCK DURING FIRE ALARM ACTIVATION.

KEY NOTES

1. POWER SUPPLY TO FEED ELECTRIC STRIKE AND AUTOMATIC CLOSER. MOUNT POWER SUPPLY TO JOIST. MANUFACTURER: DORMA MODEL NO: PS914 900-2RS
2. POWER SUPPLY TO FEED AUTOMATIC CLOSER. MOUNT POWER SUPPLY TO JOIST. MANUFACTURER: DORMA MODEL NO: PS914 900-2RS
3. POWER SUPPLY TO FEED ELECTRIC STRIKE, KEY SWITCH AND AUTOMATIC CLOSER. MOUNT POWER SUPPLY IN ACCESSIBLE CEILING. MANUFACTURER: DORMA MODEL NO: PS532RF
4. POWER SUPPLY TO FEED ELECTRIC STRIKE. MOUNT POWER SUPPLY TO JOIST. MANUFACTURER: DORMA MODEL NO: PS610RF
5. MOUNT DOOR RELEASE BUTTON ON UNDERSIDE OF COUNTERTOP. PROVIDE ½" FLEXIBLE CONDUIT IN MILLWORK FROM DOOR RELEASE BUTTON TO EAST WALL CAVITY OF ROM 121, STUB CONDUIT TO ACCESSIBLE CEILING SPACE.
6. ACCESS CONTROL ELECTRIC LATCH DOOR LOCK WITH REMOTE UNLOCKING OPERATION MOUNTED AT RECEPTION DESK.

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drawn:	M.E
check:	MKS
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project no:	12002.0031

ELECTRICAL - POWER PLANS

E1.00

UPDATED: 4/11/2017 5:23 pm
ISSUED FOR: APPROVAL

EXISTING PANEL HM3

LOCATION: ELEC RM
VOLTAGE: 277Y/480V
TRIM: SURFACE

MAIN: 250A MLO
SYSTEM: 3ø, 4W
BUS RATING 250A

CONN. LOAD: 53 KVA
FEED: TOP
GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	EDH1-1	3/4"	#10	–	#10	25/3	H	5333	–		–	20/1	–	–	–	–	SPARE	2
3			#10				H	–	5333		–	20/1	–	–	–	–	SPARE	4
5			#10				H		–	5333	–	20/1	–	–	–	–	SPARE	6
7	EDH2-1	3/4"	#12	–	#12	15/3	H	3000			–	20/1	–	–	–	–	SPARE	8
9			#12				H	–	3000		–	20/1	–	–	–	–	SPARE	10
11			#12				H		–	3000	–	20/1	–	–	–	–	SPARE	12
13	EDH4-1	3/4"	#8	–	#10	40/3	H	7333			–	20/1	–	–	–	–	SPARE	14
15			#8				H	–	7333		–	20/1	–	–	–	–	SPARE	16
17			#8				H		–	7333	–	20/1	–	–	–	–	SPARE	18
19	SPARE	–	–	–	–	20/1	–	–			–	20/1	–	–	–	–	SPARE	20
21	SPARE	–	–	–	–	20/1	–		–		–	20/1	–	–	–	–	SPARE	22
23	SPARE	–	–	–	–	20/1	–			–	–	20/1	–	–	–	–	SPARE	24
25	SPARE	–	–	–	–	20/1	–	–			–	20/1	–	–	–	–	SPARE	26
27	SPARE	–	–	–	–	20/1	–		–		–	20/1	–	–	–	–	SPARE	28
29	SPARE	–	–	–	–	20/1	–			–	–	20/1	–	–	–	–	SPARE	30
31	SPARE	–	–	–	–	20/1	–	–			–	20/1	–	–	–	–	SPARE	32
33	SPARE	–	–	–	–	20/1	–		–		–	20/1	–	–	–	–	SPARE	34
35	SPARE	–	–	–	–	20/1	–			–	–	20/1	–	–	–	–	SPARE	36
37	SPARE	–	–	–	–	20/1	–	2000			SF	45/3					SUBFEED PNL LR2C VIA XFMR LR2C	38
39	SPARE	–	–	–	–	20/1	–		2000		SF							40
41	SPARE	–	–	–	–	20/1	–			2000	SF							42

INTERRUPT RATING: 17666 17666 17666 FROM:

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	46998	1.0	46998
AIR CONDITIONING	0	0.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	6000	1.0	6000
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	53 KVA		63.8 AMPS
MIN. FEEDER/PANEL CAP.	53 KVA		63.8 AMPS
OVERALL DEMAND FACTOR	1.00		

UPDATED: 4/11/2017 5:24 pm
ISSUED FOR: APPROVAL

NEW PANEL LR2C

LOCATION: ELEC RM
VOLTAGE: 120Y/208V
TRIM: SURFACE

MAIN: 100A MCB
SYSTEM: 3ø, 4W
BUS RATING 100A

CONN. LOAD: 6 KVA
FEED: TOP
GROUND BUS: YES COPPER

CKT	LOAD SERVED	COND	PHASE	NEUT	GND	BKR	DMD	L1	L2	L3	DMD	BKR	COND	PHASE	NEUT	GND	LOAD SERVED	CKT
1	DOOR 100 POWER SUPPLY	3/4"	#10	#10	#10	20/1	N	1000			N	20/1	3/4"	#10	#10	#10	DOOR 101A POWER SUPPLY	2
3	DOOR 105 POWER SUPPLY	3/4"	#10	#10	#10	20/1	N	–	1000		N	20/1	3/4"	#10	#10	#10	DOOR 104A POWER SUPPLY	4
5	DOOR 103C POWER SUPPLY	3/4"	#10	#10	#10	20/1	N		–	1000	N	20/1	3/4"	#10	#10	#10	DOOR 141 POWER SUPPLY	6
7	"	–	–	–	–	–	–	–			–	–	–	–	–	–	"	8
9	"	–	–	–	–	–	–	–	–		–	–	–	–	–	–	"	10
11	"	–	–	–	–	–	–		–	–	–	–	–	–	–	–	"	12
13	"	–	–	–	–	–	–	–		–	–	–	–	–	–	–	"	14
15	"	–	–	–	–	–	–		–	–	–	–	–	–	–	–	"	16
17	"	–	–	–	–	–	–			–	–	–	–	–	–	–	"	18

INTERRUPT RATING: 2000 2000 2000 FROM:

LOADS (IN VA)	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
LIGHTING	0	1.25	0
RECEPTS TO 10 KVA	0	1.0	0
RECEPTS REMAINING	0	0.5	0
SPACE HEATING	0	0.0	0
AIR CONDITIONING	0	1.0	0

LOADS	CONNECTED	DEMAND FACTOR	MINIMUM FEEDER
NON-SEASONAL MOTORS	0	1.0	0
LARGEST MOTOR	0	0.25	0
WATER HEATING	0	1.0	0
KITCHEN EQUIP.	0	1.0	0

REMAINING CONTINUOUS LOADS	0	1.25	0
REMAINING NON-CONTINUOUS LOADS	6000	1.0	6000
DEMAND LOADS	0	1.0	0
TOTAL CONNECTED LOAD	6 KVA		16.7 AMPS
MIN. FEEDER/PANEL CAP.	6 KVA		16.7 AMPS
OVERALL DEMAND FACTOR	1.00		

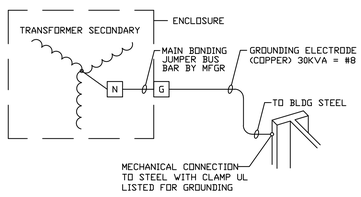
FLOOR MOUNTED (ALL)

INSTALLATION NOTES (TYPICAL)

1. LOCATE TRANSFORMER SUCH THAT A MINIMUM 6" CLEARANCE IS MAINTAINED FOR VENTILATION FROM ANY VERTICAL SURFACE. MAINTAIN 12" MINIMUM SEPARATION BETWEEN TRANSFORMERS, FOR WALL MOUNTED TRANSFORMERS, MAINTAIN MINIMUM 12" CLEARANCE BETWEEN TRANSFORMER TOP AND CEILING. MAINTAIN MINIMUM OF 96" BETWEEN LOWEST POINT OF TRANSFORMER MOUNTING BRACKET(S) AND FINISHED FLOOR. OUN.
2. USE ONLY MANUFACTURERS RECOMMENDED WALL MOUNTING BRACKETS, MOUNTING HARDWARE AND INSTRUCTIONS.
3. FOR FLOOR MOUNTED UNITS, SECURE TO FLOOR PER MANUFACTURERS INSTRUCTIONS.
4. MAKE CONDUIT PENETRATIONS ONLY AT MANUFACTURERES INDICATIED LOCATIONS.
5. USE FLEXABLE METALLIC CONDUIT FOR CONDUIT CONNECTION(S) TO TRANSFORMER ENCLOSURE.

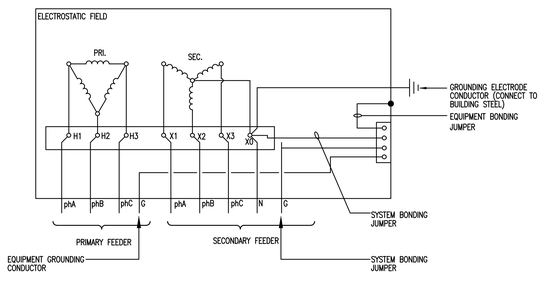
DRY TYPE TRANSFORMER INDOOR TYP. INSTALLATION

NOT TO SCALE

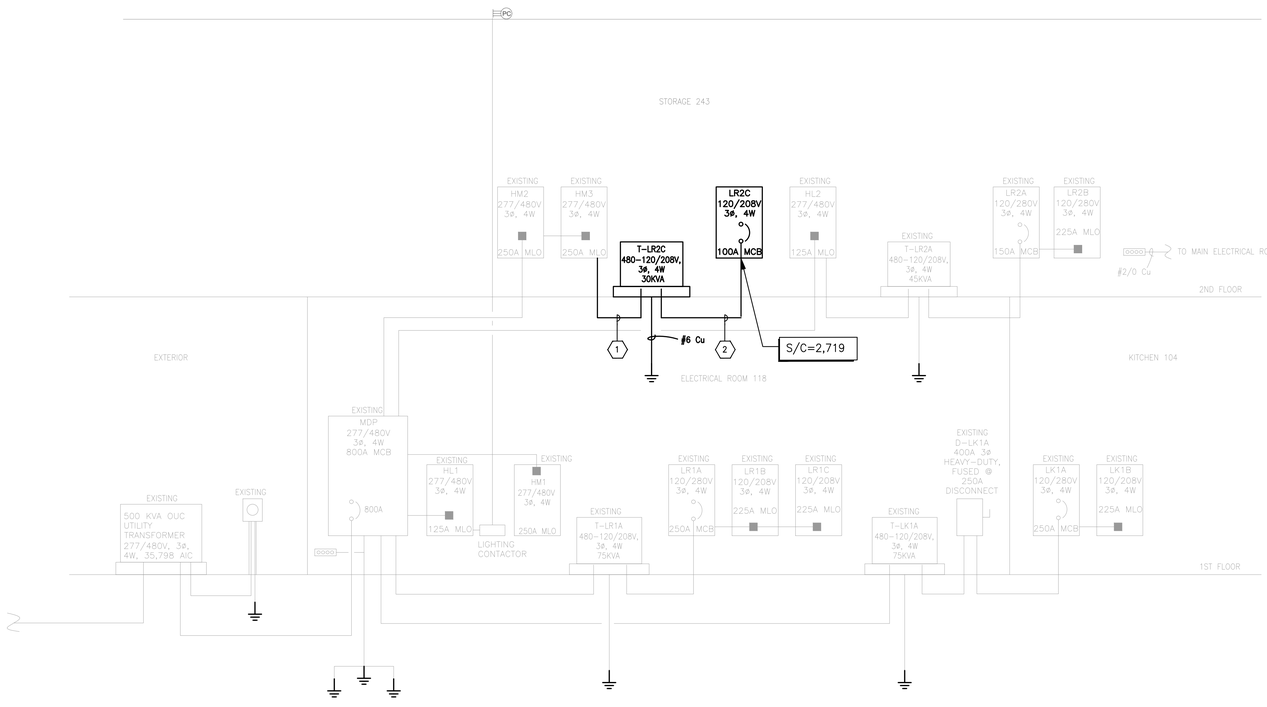


TRANSFORMER GROUNDING DETAIL

NOT TO SCALE



DRY TYPE TRANSFORMER-
TYPICAL CONNECTION DETAIL



ELECTRICAL RISER DIAGRAM

ELECTRICAL FEEDER SCHEDULE

TAG	FROM EQUIPMENT	TO EQUIPMENT	VOLTAGE	PHASE	TOTAL AMPS (DESIGN LOAD)	No. OF SETS	CONDUCTOR SIZE (THWN COPPER 75 DEG CELCIUS) FEEDER CONDUCTOR (KCMIL OR AWG) PER PHASE	NEUTRAL CONDUCTOR (KCMIL OR AWG)	GROUND (See note 1) (KCMIL OR AWG)	RUN DISTANCE (FT)	VOLTAGE DROP %
1	PANEL HM3	T-LR2C(30KVA)	480	3	**45**	1	8	-	10	10	0.10%
2	T-LR2C(30KVA)	PANEL LR2C	208	3	**100**	1	3	3	8	5	0.10%

1. ALL FEEDERS HAVE BEEN SIZED FOR 2% VOLTAGE DROP. ALL BRANCH CIRCUITS HAVE BEEN SIZED FOR 3% VOLTAGE DROP IN ACCORDANCE WITH FBC 5TH EDITION

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check:	MKS
date:	05/30/17
project no:	12002.0031

ELECTRICAL - SCHEDULES AND RISER DIAGRAM

E2.00