GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL LAWS, THE A.D.A., ALL CODES, ORDINANCES, RULES AND REGULATIONS OF ALL GOVERNING AUTHORITIES HAVING JURISDICTION.

2. THE CONTRACTOR FOR THE PROJECT SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS.

3. BEFORE COMMENCEMENT OF THE WORK, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH THE CONTRACT DOCUMENTS. ANY DEVIATIONS, DISCREPANCIES, AND/OR CONFLICTS SHALL BE REPORTED THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY QUESTION OR CLARIFICATION REGARDING "BUILDING STANDARD" CONSTRUCTION OR MATERIALS SHALL BE DIRECTED TO THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION. SHOULD THE CONTRACTOR PROCEED WITHOUT CONTACTING THE ARCHITECT, THE CONTRACTOR MAY, AT NO COST TO THE OWNER, TENANT, THE ARCHITECT, OR THE LIKE, BE REQUIRED TO REPAIR, REPLACE AND CORRECT ANY AND ALL DEFECTS AND PROBLEMS ARISING DUE TO HIS PROCEEDING WITHOUT CONTACT, CLARIFICATION AND/OR RECOMMENDATION.

4. DO NOT SCALE DRAWINGS: DIMENSIONS GOVERN, LARGE SCALE DETAILS GOVERN OVER SMALL SCALE.
   A. DRYWALL PARTITIONS ARE DIMENSIONED FROM FACE OF STUD TO FACE OF STUD, UNLESS OTHERWISE NOTED ON PLANS (IE., "FINISH" OR "CLEAR").
   B. MASONRY UNITS ARE DIMENSIONED TO ROUGH WALL SURFACE.
   C. GLASS SIZES SHOWN ON DRAWINGS ARE NOMINAL. ACTUAL SIZES MAY BE SMALLER. VERIFY WINDOWS AND ROUGH OPENINGS WITH MANUFACTURER PRIOR TO CONSTRUCTION.

5. THE PRESENCE OF THE ARCHITECT OR OWNER'S REPRESENTATIVE ON THE JOB SITE DOES NOT IMPLY CONCURRENCE WITH OR APPROVAL OF THE WORK.

6. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, CONSTRUCTION TECHNIQUES SHALL CONFORM TO ACCEPTED CONSTRUCTION INDUSTRY PRACTICE AND GOVERNING REGULATORY STANDARDS. CONTRACTOR SHALL THOROUGHLY REVIEW THE DRAWINGS AND FIELD CONDITIONS AND NOTIFY THE ARCHITECT OF ANY ERRORS OR CONFLICT BEFORE COMMENCING THE WORK.

7. DIMENSIONS ARE TOP OF FINISH FLOOR, FACE OF CONCRETE OR MASONRY EXCEPT AS OTHERWISE NOTED. DO NOT SCALE DRAWINGS. INTERIOR FRAME WALLS ARE 3-5/8" THICK UNLESS OTHERWISE INDICATED. GYPSUM BOARD SHEATHING IS 5/8" THICK UNLESS OTHERWISE NOTED. ROUGH DOOR JAMB OFFSETS ARE 4" UNLESS OTHERWISE NOTED. ANGLES WHICH APPEAR TO BE 45 DEGREES ARE SO, UNLESS OTHERWISE INDICATED. ITEMS WHICH APPEAR TO BE CENTERED ARE SO, UNLESS OTHERWISE INDICATED.

8. FIXTURES, EQUIPMENT, MILLWORK, HARDWARE, FINISHES WHICH ARE NOT FULLY SPECIFIED IN THE DRAWINGS SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO THEIR ACQUISITION AND INSTALLATION.

NOTE: THE DRAWINGS ARE FOR THE SOLE USE OF THIS PROJECT EXCLUSIVELY. ANY MEANS TO REPRODUCE, DUPLICATE ANY PORTION, ENABLE DISCLOSURE, OR OTHER USE FOR WHICH IT IS INTENDED TO REPRESENT IS PROHIBITED WITHOUT EXPRESS WRITTEN CONSENT BY THE OWNER.

INTERIOR PARTITION CLEAR SPAN LIMITS

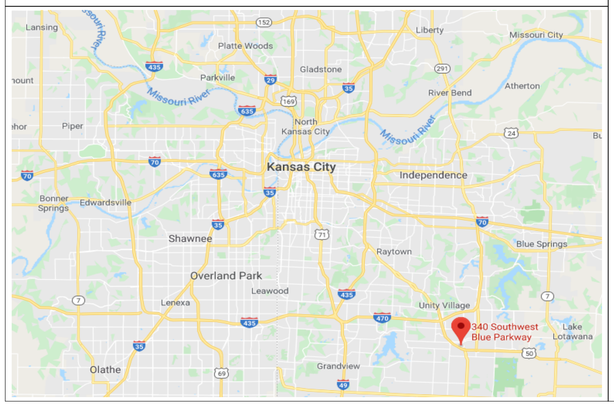
MAXIMUM ALLOWABLE CLEAR SPAN HEIGHT IN FEET FOR NON-LOAD BEARING INTERIOR PARTITIONS:

DESIGN CRITERIA: INTERIOR HORIZONTAL DESIGN LOAD PER BUILDING CODE: 5 PSF WITH ALLOWABLE DEFLECTION OF L/360.
RUNNER TRACK GAUGE TO MATCH STUD GAUGE. TOP DEFLECTION TRACK GAUGE TO MATCH STUD GAUGE FOR 14 THRU 18 GA, BUT NOT LESS THAN 18 GAUGE FOR 20 GA STUDS

STUD SIZE, FLANGE WIDTH, GAUGE (TRANSLATION TO OLD NOMENCLATURE)	Fy (KSI)	SPACING (O.C.)	5 PSF L/360
600S125-68 (6", 1-1/4" -14 GA)	50	12	28'-10"
600S125-68 (6", 1-1/4" -14 GA)	50	16	26'-2"
600S125-54 (6", 1-1/4" -16 GA)	50	12	26'-10"
600S125-54 (6", 1-1/4" -16 GA)	50	16	24'-5"
600S125-43 (6", 1-1/4" -18 GA)	33	12	25'-1"
600S125-43 (6", 1-1/4" -18 GA)	33	16	22'-10"
600S125-33 (6", 1-1/4" -20 GA)	33	12	22'-10"
600S125-33 (6", 1-1/4" -20 GA)	33	16	20'-9"
600S125-30 (6", 1-1/4" -20 GA)	33	12	22'-0"
600S125-30 (6", 1-1/4" -20 GA)	33	16	20'-0"
362S125-68 (3-5/8", 1-1/4" -14 GA)	50	12	19'-2"
362S125-68 (3-5/8", 1-1/4" -14 GA)	50	16	17'-5"
362S125-54 (3-5/8", 1-1/4" -16 GA)	50	12	17'-11"
362S125-54 (3-5/8", 1-1/4" -16 GA)	50	16	16'-3"
362S125-43 (3-5/8", 1-1/4" -18 GA)	33	12	16'-9"
362S125-43 (3-5/8", 1-1/4" -18 GA)	33	16	15'-3"
362S125-33 (3-5/8", 1-1/4" -20 GA)	33	12	15'-4"
362S125-33 (3-5/8", 1-1/4" -20 GA)	33	16	14'-0"
362S125-30 (3-5/8", 1-1/4" -20 GA)	33	12	14'-10"
362S125-30 (3-5/8", 1-1/4" -20 GA)	33	16	13'-6"

NOTES:
1. CLEAR SPAN HEIGHTS ARE FROM "INTERIOR WALL LIMITING HEIGHTS NON-COMPOSITE" TABLES IN THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) PRODUCT TECHNICAL GUIDE 2012 AND ARE PROVIDED AS A GENERAL GUIDELINE. VERIFY MAXIMUM ALLOWABLE CLEAR SPAN HEIGHTS WITH METAL STUD MANUFACTURER.
2. STUD GAUGE AND O.C. SPACING SHALL BE SELECTED ACCORDING TO THIS CLEAR SPAN HEIGHT SCHEDULE U.N.O.
3. HORIZONTAL BRIDGING IS NOT REQUIRED WHEN GYPSUM WALLBOARD IS INSTALLED FULL HEIGHT ON BOTH SIDES OF PARTITION, BUT HORIZONTAL BRIDGING IS STILL REQUIRED AT 1'-0" BELOW DEFLECTION TRACK IF SLIP CLIPS AT DEFLECTION TRACK ARE NOT PROVIDED.

VICINITY MAP:



CODE ANALYSIS:

PROJECT DESCRIPTION:
COMMERCIAL TENANT IMPROVEMENT WITHIN THE EXISTING STRUCTURE LOCATED AT 340 SOUTHWEST BLUE PARKWAY, LEE'S SUMMIT, MO 64063 TO A GOLF INSTRUCTION FACILITY. PROJECT SCOPE INCLUDES 2,750 SF OF INTERIOR SPACE AND THE CONSTRUCTION OF NEW INTERIOR WALLS, CEILINGS, WALL AND FLOOR COVERINGS AND THE INSTALLATION OF NEW FIXTURES. SCOPE ALSO INCLUDES THE NECESSARY MECHANICAL, PLUMBING AND ELECTRICAL IMPROVEMENTS TO SUPPORT THE NEW USE.

OCCUPANCY DESCRIPTION: THE DEMISED PREMISES OCCUPIED BY GOLFTEC SHALL BE USED FOR THE INSTRUCTION OF GOLF THROUGH THE USE OF PATENTED TECHNOLOGY AND PROFESSIONAL INSTRUCTORS AND FOR THE SALE OF CUSTOM GOLF CLUBS AND GOLF RELATED ITEMS.

BUILDING CODE ANALYSIS:

APPLICABLE CODES
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CONSERVATION CODE
2017 NATIONAL ELECTRICAL CODE
2017 ACCESSIBILE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1)

USE GROUP: B-BUSINESS
SHELL BUILDING CONSTRUCTION TYPE: UNKNOWN
TENANT IMPROVEMENT CONSTRUCTION TYPE: II-B
CLASSIFICATION OF WORK: ALTERATION- INTERIOR TENANT IMPROVEMENT
OCCUPANT CONTENT:
(B) BUSINESS: ACTUAL OCCUPANT LOAD BASED ON 1004.1.2 EXCEPTION = 15 PERSONS
EGRESS WIDTH:
(# OF PERSONS X .15" PER PERSON = WIDTH
TOTAL EGRESS WIDTH REQUIRED = 4.05
TOTAL EGRESS WIDTH PROVIDED =72"
IBC 1006.2.1.1REQUIRED NUMERS OF EXITS:
<50 OCCUPANTS = 1 EXIT REQUIRED, 2 EXITS PROVIDED
MAX. EXIT ACCESS TRAVEL DISTANCE:
GROUP B= 75'
SPRINKLERED: NO
IBC TABLE 2902.1
MINIMUM REQUIREMENT OF REQUIRED PLUMBING FIXTURES:

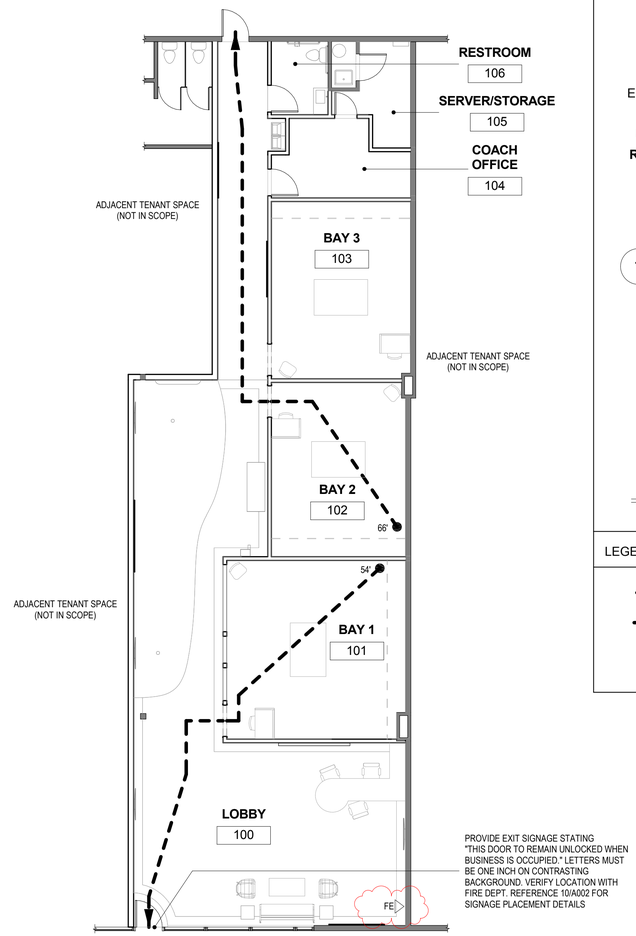
CLASSIFICATION	WC		LAV		DF	SS
B (BUSINESS)	M	F	M	F		
REQUIRED	1 PER 500		1 PER 750		1 PER 100	1
PROVIDED	UNISEX***		1 UNISEX***		1	0*

*e. FOR BUSINESS AND MERCANTILE OCCUPANCIES WITH AN OCCUPANT LOAD OF 15 OR FEWER, SERVICE SINKS SHALL NOT BE REQUIRED.

IBC 2902.2- SEPERATE FACILITIES

***** EXCEPTION**: SEPARATE FACILITIES SHALL NOT BE REQUIRED IN STRUCTURES OR TENANT SPACES WITH A TOTAL OCCUPANT LOAD, INCLUDING BOTH EMPLOYEES AND CUSTOMERS, OF 15 OR FEWER.

EGRESS PLAN:



1 EGRESS PLAN
1/8" = 1'-0"

ANNOTATIONS AND SYMBOLS

- COLUMN GRID LINE
- BUILDING SECTION REFERENCE — SECTION NUMBER — DRAWING ON WHICH SECTION IS SHOWN
- WALL SECTION REFERENCE — SECTION NUMBER — DRAWING ON WHICH SECTION IS SHOWN
- DETAIL SECTION REFERENCE — DETAIL NUMBER — DRAWING ON WHICH SECTION IS SHOWN
- DETAIL PLAN REFERENCE — DETAIL NUMBER — DRAWING ON WHICH SECTION IS SHOWN
- INTERIOR ELEVATION REFERENCE — ELEVATION NUMBER — DRAWING ON WHICH ELEV IS SHOWN
- EXTERIOR ELEVATION REFERENCE — ELEVATION NUMBER — DRAWING ON WHICH ELEV IS SHOWN
- CEILING TAG (GYP BD 1'-0" A.F.F.)
- DOOR NUMBER (101TM)
- KEYNOTE TAG
- WALL TYPE TAG / FLOOR TYPE TAG
- VERTICAL ELEVATION MARK (Name / Elevation)
- ROOM TAG (Unit Type / Room name)
- SPOT ELEVATION
- DRAWING TITLE/ REFERNCE (1 View Name 1/8" = 1'-0")
- WINDOW TAG
- CENTER LINE
- REVISION MARK
- WALL CONSTRUCTION
- DOOR

LEGEND:

- PATH OF EGRESS TRAVEL
- TRAVEL DISTANCE START POINT
- FE — 2A10BC FIRE EXTINGUISHER, LOCATIONS TO BE APPROVED BY FIRE DEPT.

SHEET INDEX

#	SHEET TITLE	FOR PERMIT		
GENERAL				
A001	COVER	●		
A002	ACCESSIBILITY INFORMATION	●		
A003	ADA CLEARANCES	●		
A004	SPECIFICATIONS	●		
A005	WALL AND DOOR SCHEDULES	●		
ARCHITECTURE				
A100	DEMO PLAN	●		
A101	FLOOR PLAN	●		
A102	RELECTED CEILING & POWER PLAN	●		
A103	FINISH FLOOR PLAN & SCHEDULES	●		
MECHANICAL				
DM101	MECHANICAL DEMO PLAN	●		
M101	MECHANICAL NEW WORK	●		
M601	MECHANICAL DETAILS	●		
MEP101	GENERAL SYMBOLS	●		
PLUMBING				
DP101	PLUMBING DEMOLITION	●		
P101	PLUMBING NEW WORK	●		
P601	PLUMBING DETAILS			
ELECTRICAL				
DE101	ELECTRICAL AND LIGHTING DEMOLITION	●		
E101	ELECTRICAL NEW WORK	●		
E102	ELECTRICAL LIGHTING NEW WORK	●		
E601	ELECTRICAL DETAILS	●		

GOLFTEC

CITY OF LEE'S SUMMIT – DEVELOPMENT SERVICES
220 SE GREEN
LEE'S SUMMIT, MO 64063

PROJECT TITLE AND ADDRESS:
GOLFTEC LEE'S SUMMIT
340 SW BLUE PARKWAY
LEE'S SUMMIT, MO 64063

January 7th, 2020

To Whom it May Concern,

This letter is in reference to the GOLFTEC Lee's Summit commercial tenant improvement project. GOLFTEC gives private one-on-one golf lessons using advanced technology including video analysis, motion measurement and launch monitors. GOLFTEC also provides custom club fitting services. GOLFTEC Lee's Summit is a commercial tenant improvement to a golf instruction facility. The facility contains 3 hitting bays, a lobby and small office.

The way the GOLFTEC's business works is that clients schedule individual lessons with our staff coaches. These lessons are one-on-one, therefore the maximum amount of people in the training bays at one time is 6 people (3 training bays x 2 (1 coach and 1 client). There is also the possibility that each client could bring a companion with them (in actually this is very rare), adding 4-5 other occupants to the space. That being said, our actual occupancy will most likely never exceed 11 people at one time in the entire space. That is why we believe we do not need to install separate male and female restrooms or a service sink and ask you to consider reducing our occupant load to 15 persons per IBC Section 1004.1.2 Exception for a reduction of the required plumbing fixtures. It is clearly understood that the occupant load reduction would only apply toward plumbing fixture reduction. All other code requirements, including all life-safety and egress requirements, will be based on the full 25 persons occupant load (to note: there is no difference in the life safety requirements for 15 to 28 occupants in the B occupancy per 2018 IBC).

Thank you for the consideration in this matter. Please reach out to the undersigned with any additional questions or for more clarification.

Sincerely,

Katie Guyon
Architect of Record- GOLFTEC
720-261-5802
keuyon@golftec.com

Joseph L. Assell
GOLFTEC CEO
J.Assell@Golftec.com

DEFFERED SUBMITTALS:

IF REQUIRED, SPRINKLER CONTRACTOR TO PREPARE SPRINKLER MODIFICATION DRAWINGS AND SUBMIT FOR REVIEW UNDER SEPARATE PERMIT (COORDINATE WITH LANDLORD AS REQUIRED).

IF REQUIRED, FIRE PROTECTION CONTRACTOR TO PREPARE FIRE ALARM MODIFICATION DRAWINGS AND SUBMIT FOR REVIEW UNDER SEPARATE PERMIT (COORDINATE WITH LANDLORD AS REQUIRED).

PROJECT TEAM:

OWNERS:	GOLFTEC 67 INVERNESS DRIVE EAST, SUITE 175 ENGLEWOOD, CO 80112
ARCHITECT:	KATHERINE GUYON 67 INVERNESS DRIVE EAST SUITE 175 ENGLEWOOD, CO 80112 PHONE: 720-261-5802
MEP ENGINEERS:	SYS-TEK 255 NW BLUE PARKWAY SUITE 101, LEE'S SUMMIT, MO 64063
BUILDING DEPARTMENTT:	CITY OF LEE'S SUMMIT - DEVELOPMENT SERVICES 220 SOUTHEAST GREEN LEE'S SUMMIT, MO 64063 PHONE: 816-969-1200

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2020.03.18 12:01:49-05'00'

APPROVED

GOLFTEC
LEE'S SUMMIT

GOLFTEC
INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

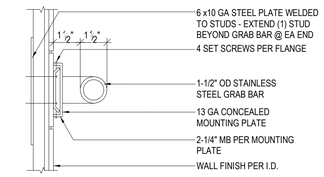
Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	
02-06-2020	RESPONSE TO BUILDING COMMENTS	1

GT PROJECT NO: GT-461

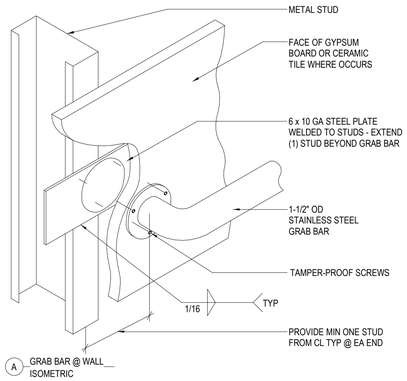
COVER

A001

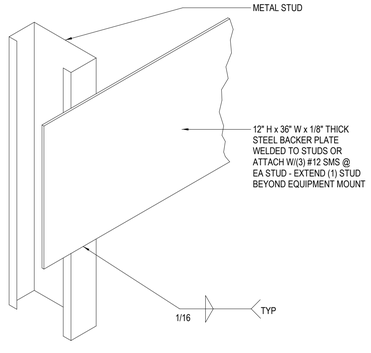
2/6/2020 9:08:17 AM



B GRAB BAR @ STUD WALL___ SECTION

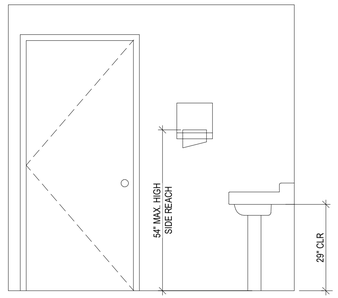


A GRAB BAR @ WALL__ ISOMETRIC



B GRAB BAR @ WALL__ ISOMETRIC

GRAB BAR — TYPICAL ANCHORES — SCALE 3" = 1' - 0" — 11



ADA SANITARY FACILITES — ELEVATIONS — SCALE 1/2" = 1' - 0" — 7

DOOR TYPE:

1 MINIMUM 10" HIGH SMOOTH SURFACE AT DOOR BOTTOM, EITHER ATTACHED PANEL OR BOTTOM RAIL

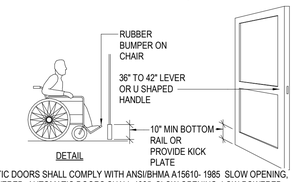
HARDWARE:

2 OPENABLE FROM INSIDE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE OR EFFORT

3 OPENABLE BY SINGLE EFFORT LEVER-TYPE DEVICE (NOT REQUIRING GRASPING)

4 MOUNTED 36" TO 42"

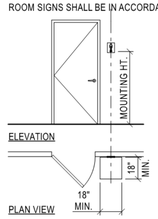
5 MAXIMUM 85 LBS EFFORT TO OPERATE EXTERIOR DOOR, 5 LBS FOR INTERIOR



1 AUTOMATIC DOORS SHALL COMPLY WITH ANSI/BHMA A15610- 1985 SLOW OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL 1985 SLOW OPENING, LOW-POWERED, AUTOMATIC DOORS SHALL COMPLY WITH ANSI A15619-1984 DOORS SHALL TAKE AT LEAST THREE SECONDS TO OPEN BEFORE BACK CHECKING AND NOT REQUIRE MORE THAN A 15-POUND FORCE TO STOP THE DOOR MOVEMENT THE DOOR-OPENING FORCE OF A POWER-ASSISTED DOOR SHALL COMPLY WITH SECTION C-5212 ITS CLOSING SHALL CONFORM WITH ANSI

ADA DOOR REQUIREMENTS — GENERAL — SCALE 1/4" = 1' - 0" — 3

ROOM SIGNS SHALL BE IN ACCORDANCE WITH ICC/ANSI A117.1 AND ADAAG.



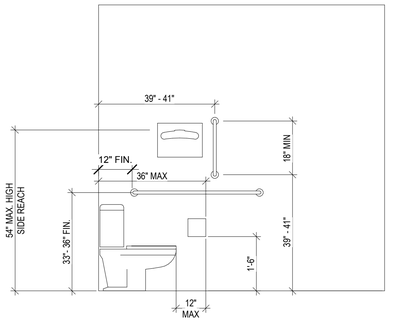
MOUNTING HEIGHT: CHARACTERS SHALL BE LOCATED ABOVE THE FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE CHARACTERS AS FOLLOWS:
- 48" MIN. MEASURED TO THE BASELINE OF THE LOWEST CHARACTERS.
- 60" MAX. MEASURED TO THE BASELINE OF THE HIGHEST CHARACTERS.

MOUNTING LOCATION: MIN. CLEAR ON THE GROUND OR FLOOR, CENTERED ON THE SIGN, BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION & 45 DEG. OPEN POSITION

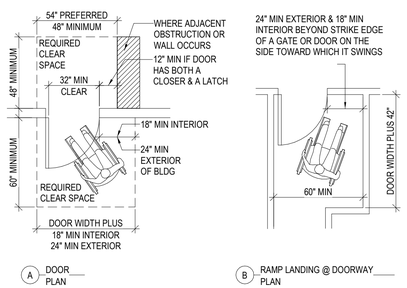
TOILET ROOM BARRIER FREE SIGNS: PROVIDE DOOR SIGNS AT BARRIER FREE TOILET ROOMS. SIGNS SHALL BE 8"x6" NOMINAL SIZE WITH WHITE LETTERS ON BLACK (OR WHITE ON BLUE) BACKGROUND AS REQUIRED BY LOCAL JURISDICTION; RAISED LETTER, BRAILLE AND PICTOGRAMS ON A MATTE PLASTIC BACKGROUND; DOUBLE-FACED ADHESIVE BACK TAPE MOUNTING. MOUNT SIGNS IN ACCORDANCE WITH BARRIER FREE CODE ACCESSIBILITY GUIDELINES

703.4.1 HEIGHT ABOVE FINISH FLOOR OR GROUND. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES (1220 MM) MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES (1525 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER.

ACCESSIBLE SIGNAGE DETAILS — MOUNTING HEIGHTS — SCALE NTS — 10

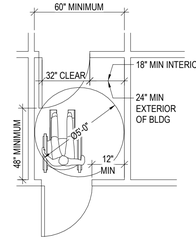


ADA SANITARY FACILITES — ELEVATIONS — SCALE 1/2" = 1' - 0" — 6

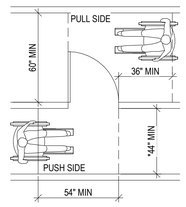


A DOOR PLAN

B RAMP LANDING @ DOORWAY___ PLAN



C VESTIBULE PLAN



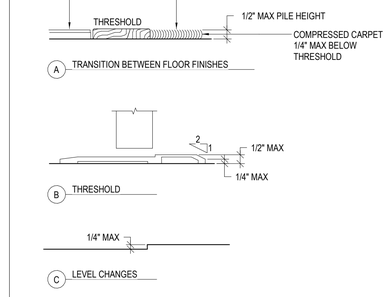
* NOTE: 48" MIN IF DOOR HAS BOTH A LATCH & A CLOSER

D CORRIDOR PLAN

NOTES:

1. CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.
2. WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48". FOR ADDITIONAL INFORMATION, REFER TO APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET.

ADA DOOR REQUIREMENTS — CLEARANCES - DOORS & CORRIDORS — SCALE 1/4" = 1' - 0" — 2

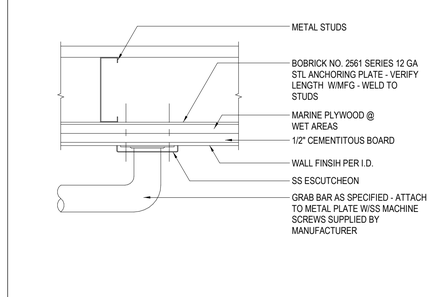


A TRANSITION BETWEEN FLOOR FINISHES___

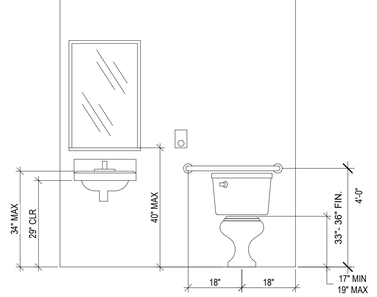
B THRESHOLD___

C LEVEL CHANGES___

ADA THRESHOLD — REQUIREMENTS & LEVEL CHANGES - TYPICAL — SCALE 3" = 1' - 0" — 13



ADA SANITARY FACILITIES — GRAB BAR ANCHOR — SCALE 3" = 1' - 0" — 9

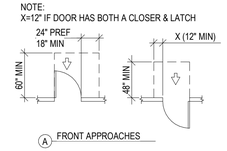


ADA SANITARY FACILITES — ELEVATIONS — SCALE 1/2" = 1' - 0" — 5

B HINGE SIDE APPROACHES___

C LATCH SIDE APPROACHES___

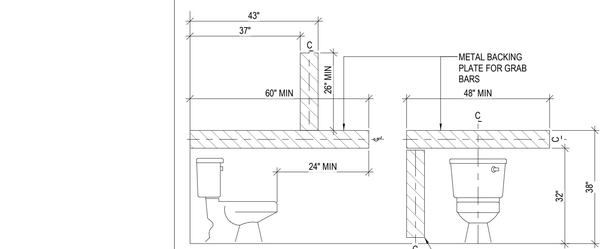
NOTE:
X=12" IF DOOR HAS BOTH A CLOSER & LATCH



A FRONT APPROACHES___

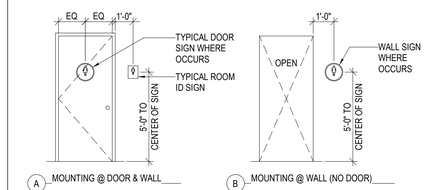
NOTE:
ALL DOOR IN ALCOVES SHALL COMPLY WITH CLEARANCES FOR FRONT APPROACHES.

ADA DOOR REQUIRMENTS — APPROACH REQUIRMENTS — SCALE 1/8" = 1' - 0" — 1



NOTE:
THE AREA OUTLINED IN DASHED LINES REPRESENT LOCATIONS FOR FUTURE INSTALLATION OF GRAB BARS FOR TYP FIXTURE CONFIGURATIONS.

ADA SANITARY FACILITES — GRAB BAR MOUNTING PLATES — SCALE 1/2" = 1' - 0" — 12



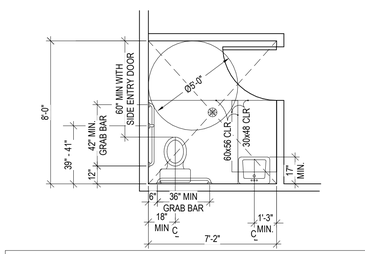
A MOUNTING @ DOOR & WALL___

B MOUNTING @ WALL (NO DOOR)___

NOTES:

1. DOOR SIGN: SHALL BE CENTERED ON DOOR & MOUNTED 60" ABOVE THE FLOOR (W/ADHESIVE ONLY - CAULK EDGES W/CLEAR SILICONE) @ THE CENTER OF THE SIGN.
2. ROOM SIGN: RAISED & BRAILLED CHARACTERS & PICTORIAL SYMBOL SIGNS (PICTOGRAMS). LETTERS & NUMERALS SHALL BE RAISED 1/32", UPPERCASE, SANS SERIF OR SIMPLE SERIF TYPE, & SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE 5/8" HIGH MIN, 2" HIGH MAX.
3. FINISH CONTRAST: THE CHARACTERS & BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH.
4. CHARACTERS & SIGNS: SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR.

ADA SANITARIES FACILITIES — SIGNAGE MOUNTING HEIGHTS — SCALE 1/4" = 1' - 0" — 8



NOTES:
1. PROVIDE PRIVACY DOOR LOCK WHEN IT IS A PRIVATE TOILET OR FOR UNISEX USE
2. GRAB BARS (REFER TO ADA DETAILS & ADA NOTES - ABOVE)

ADA SANITARY FACILITIES — UNISEX ACCOMODATION TOILET — SCALE 1/4" = 1' - 0" — 4

GOLFTEC

GOLFTEC
LEE'S SUMMIT

GOLFTEC
INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

Joe Frogge

Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2020.03.18 12:02:20-05'00'

Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	

GT PROJECT NO: GT-461

ACCESSIBILITY INFORMATION

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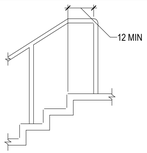
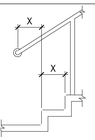


FIGURE 505.10.2 TOP HANDRAIL EXTENSION AT STAIRS



NOTE: X = TREAD DEPTH

FIGURE 505.10.3 BOTTOM HANDRAIL EXTENSION AT STAIRS

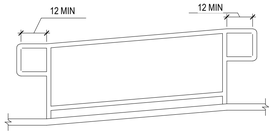


FIGURE 505.10.1 TOP AND BOTTOM HANDRAIL EXTENSION AT RAMPS

FIGURE 505.5 HANDRAIL CLEARANCE

FIGURE 505.6 HORIZONTAL PROJECTIONS BELOW GRIPPING SURFACE

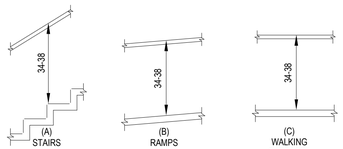


FIGURE 505.4 HANDRAIL HEIGHT

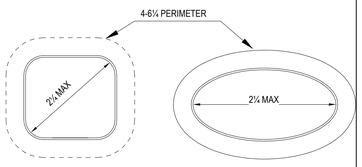


FIGURE 505.7.2 HANDRAIL NON-CIRCULAR CROSS SECTION

505.2 LOCATION. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS.
505.3 CONTINUITY. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS OR RAMPS SHALL BE CONTINUOUS BETWEEN FLIGHTS OR RUNS. OTHER HANDRAILS SHALL COMPLY WITH SECTIONS 505.10 AND 307.
505.4 HEIGHT. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34" MINIMUM AND 38" MAXIMUM VERTICALLY ABOVE STAIR NOSINGS AND RAMP SURFACES. HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE STAIR NOSINGS AND RAMP SURFACES.
505.5 CLEARANCE. CLEAR SPACE BETWEEN HANDRAIL AND WALL SHALL BE 1-1/2" MINIMUM.
505.6 GRIPPING SURFACE. GRIPPING SURFACES SHALL BE CONTINUOUS, WITHOUT INTERRUPTION BY NEWELL POSTS, OR OTHER CONSTRUCTION ELEMENTS OR OBSTRUCTIONS.
505.7 CROSS SECTION. HANDRAILS SHALL HAVE A CIRCULAR CROSS-SECTION WITH AN OUTSIDE DIAMETER OF 1-1/4" MINIMUM AND 2" MAXIMUM, OR SHALL PROVIDE EQUIVALENT GRASPABILITY COMPLYING WITH SECTION 505.7.1.
505.7.1 NON-CIRCULAR CROSS SECTIONS. HANDRAILS WITH OTHER SHAPES SHALL BE PERMITTED PROVIDED THEY HAVE A PERIMETER DIMENSION OF 4" MINIMUM AND 6-1/2" MAXIMUM, AND PROVIDED THEIR LARGEST CROSS-SECTION DIMENSION IS 2-1/4" MAXIMUM.
505.10.1 TOP AND BOTTOM EXTENSION AT RAMPS. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY 12" MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. SUCH EXTENSION SHALL RETURNTO A WALL, RUARD, OR THE WALKINGSURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN.
505.10.2 TOP EXTENSIONS AT STAIRS. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12" MINIMUM, BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. SUCH EXTENSON SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.
505.10.3 BOTTOM EXTENSION AT STAIRS. AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. SUCH EXTENSION SHALL CONTINUE WITH A HORIZONTAL EXTENSIONOR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT, OR SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE. IF PROVIDED AT THE BOTTOM OF A STAIR FLIGHT, A HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12" LONG, MINIMUM, AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS. SUCH EXTENSION SHALL RETURN TO A WALL, GUARD OR THE WALKING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT.

505 HANDRAILS

FIGURE 504.5 STAIR NOSINGS

504.2 TREADS AND RISERS. ALL STEPS ON A FLIGHT OF STAIRS SHALL HAVE UNIFORM RISER HEIGHTS AND UNIFORM TREAD DEPTH. RISERS SHALL BE 4" HIGH MINIMUM AND 7" MAXIMUM. TREADS SHALL BE 11" DEEP MINIMUM, MEASURED FROM RISER TO RISER. (FIG. 504.2)
504.3 OPEN RISERS. OPEN RISERS SHALL NOT BE PERMITTED.
504.4 TREAD SURFACE. STAIR TREADS SHALL COMPLY WITH SECTION 302.
504.5 NOSINGS. THE RADIUS OF CURVATURE AT THE LEADING EDGE OF THE TREAD SHALL BE 1/2" MAXIMUM. NOSINGS THAT PROJECT BEYOND RISERS SHALL HAVE THE UNDERSIDE OF THE LEADING EDGE CURVED OR BEVELED. RISERS SHALL BE PERMITTED TO SLOPE UNDER THE TREAD AT AN ANGLE OF 30° MAXIMUM FROM VERTICAL. THE PERMITTED PROJECTION OF THE NOSING SHALL BE 1-1/2" MAXIMUM BEYOND THE TREAD BELOW.
504.6 HANDRAILS. STAIRS SHALL HAVE HANDRAILS COMPLYING WITH SECTION 505.

504 STAIRWAYS

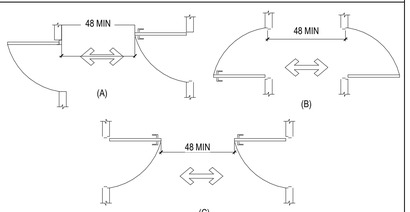


FIGURE 404.2.6
DOORS IN SERIES AND GATES IN SERIES

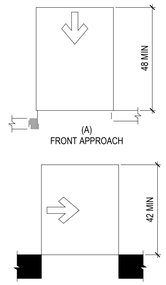


FIGURE 404.2.4.2 -- MANEUVERING CLEARANCES AT SLIDING AND FOLDING DOORS

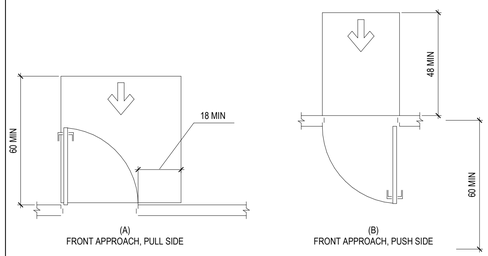


FIGURE 404.2.4.1
MANEUVERING CLEARANCES AT SWINGING DOORS

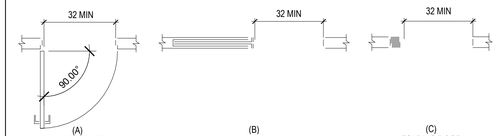


FIGURE 404.2.3
CLEAR WIDTH OF DOORWAYS

404.2.1 REVOLVING DOORS AND TURNSTILES. REVOLVING DOORS OR TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE,
404.2.2 DOUBLE-LEAF DOORWAYS. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO INDEPENDENTLY OPERATED LEAVES SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTIONS 404.2.3 AND 404.2.4.
404.2.3 CLEAR WIDTH. DOORWAYS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM. CLEAR OPENING OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURES BETWEEN THE FACE OF DOOR AND STOP, WITH THE DOOR OPEN 90°. OPENINGS MORE THAN 24" DEEP SHALL PROVIDE A CLEAR OPENING OF 36" MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE CLEAR OPENING WIDTH LOWER THAN 34" ABOVE THE FLOOR AND GROUND. PROJECTIONS INTO THE MINIMUM CLEAR OPENING WIDTH MORE THAN 34" AND UP TO 80" ABOVE THE FLOOR OR GROUND ARE PERMITTED BUT SHALL NOT EXCEED 4". (FIG. 404.2.3)
404.2.4 MANEUVERING CLEARANCES AT DOORS. (SEE TABLES 404.2.4.1, 404.2.4.2 AND 404.2.4.3; AND SEE FIGS. 404.2.4.1, 404.2.4.2 AND 404.2.6
404.2.4.1 SWINGING DOORS. SWINGING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.1
404.2.4.2 SLIDING AND FOLDING DOORS. SLIDING DOORS AND FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.2.
404.2.4.3 DOORWAYS WITHOUT DOORS. DOORWAYS WITHOUT DOORS THAT ARE LESS THAN 36" WIDE SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 404.2.4.3.
404.2.4.4 RECESSED DOORS. WHERE THE PLANE OF THE DOORWAY IS RECESSED CLEARANCESFOR FRONT APPROACH SHALL BE PROVIDED.
404.2.4.5 FLOOR OR GROUND SURFACES. FLOOR OR GROUND SURFACES WITHIN THE MANEUVERING CLEARANCES SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH SECTION 302.
404.2.5 THRESHOLDS AT DOORWAYS. THRESHOLDS, IF PROVIDED, AT DOORWAYS SHALL BE 1/2" HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS MUST COMPLY WITH SECTIONS 302 AND 303.
404.2.6 TWO DOORS IN SERIES. DISTANCE BETWEEN TWO HINGED OR PIVOTED DOORS IN SERIES SHALL BE 48" MINIMUM PLUS THE WIDTH OF ANY DOOR SWINGING INTO THE SPACE.
404.2.7 DOOR HARDWARE. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVER A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE. SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.
EXCEPTION: LOCKS USED ONLY FOR SECURITY PURPOSES AND NOT USED FOR NORMAL OPERATION ARE PERMITTED IN ANY LOCATION.

404 DOORS AND DOORWAYS

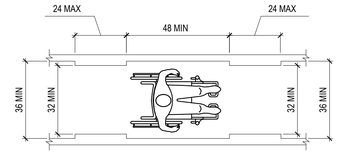


FIGURE 403.5.1 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

403.5 CLEAR WIDTH OF AN ACCESSIBLE ROUTE

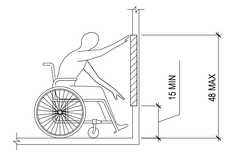


FIGURE 308.2.1
UNOBSTRUCTED
FORWARD REACH

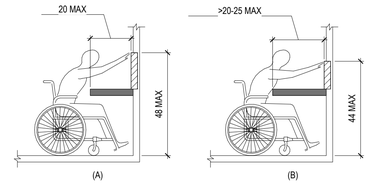


FIGURE 308.2.2
OBSTRUCTED HIGH
FORWARD REACH

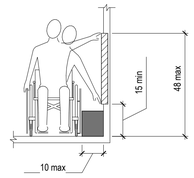


FIGURE 308.3.1
UNOBSTRUCTED
SIDE REACH

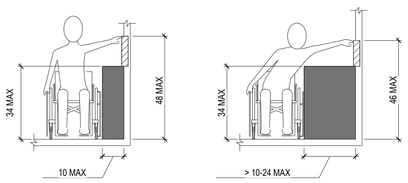


FIGURE 308.3.2 OBSTRUCTED
HIGH SIDE REACH

308.2 FORWARD REACH.
308.2.1 UNOBSTRUCTED. WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48" MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15" MINIMUM ABOVE THE FLOOR OR GROUND.
308.2.2 OBSTRUCTED HIGH REACH. WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR OR GROUND SPACE SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THANK THE REQUIRED REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 48" MAXIMUM WHERE THE REACH DEPTH IS 20" MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 20", THE HIGH FORWARD REACH SHALL BE 44" MAXIMUM AND THE REACH DEPTH SHALL BE 25" MAXIMUM.
308.3 SIDE REACH.
308.3.1 UNOBSTRUCTED. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE SIDE REACH IS UNOBSTRUCTED, THE HIGH SIDE REACH SHALL BE 48" MAXIMUM AND THE LOW SIDE REACH SHALL BE 15" MINIMUM ABOVE THE FLOOR OR GROUND.
EXCEPTION: EXISTING ELEMENTS SHALL BE PERMITTED AT 54" MAXIMUM ABOVE THE FLOOR OR GROUND.
308.3.2 OBSTRUCTED HIGH REACH. WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN OBJECT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34" MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL 24" MAXIMUM. THE HIGH SIDE REACH SHALL BE 48" MAXIMUM FOR A REACH DEPTH OF 10" MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10", THE HIGH SIDE REACH SHALL BE 46" MAXIMUM FOR A REACH DEPTH OF 24" MAXIMUM.

308 REACH RANGES

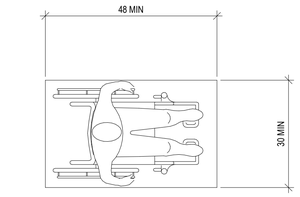


FIGURE 305.3 CLEAR FLOOR OR GROUND SPACE

305.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACES OF A CLEAR GROUND SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTION 302.
305.3 SIZE. CLEAR GROUND SPACE SHALL BE 30" MINIMUM BY 48" MINIMUM.(FIG. 304.3)
305.5 POSITION. UNLESS OTHERWISE SPECIFIED, THE CLEAR FLOOR OR GROUND SPACE SHALL BE POSITIONED FOR EITHER FORWARD OR PARALLEL APPROACH TO AN ELEMENT.

305 CLEAR GROUND SPACE

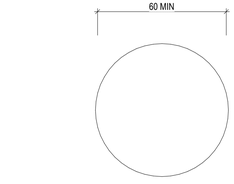


FIGURE 304.3.2 T-SHAPED TURNING SPACE

304.2 FLOOR OR GROUND SURFACE. FLOOR OR GROUND SURFACES OF A WHEELCHAIR TURNING SPACE SHALL HAVE A SLOPE NOT STEEPER THAN 1:48 AND SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTION 302.
304.3 SIZE. WHEELCHAIR TURNING SPACE SHALL COMPLY WITH ICC/ANSI A-117.1-1998 SECTIONS 304.3.1 OR 304.3.2. (FIG. 304.3)

304 WHEELCHAIR TURNING SPACE

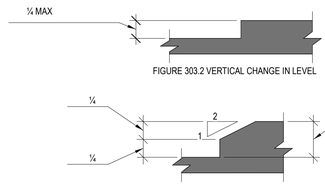


FIGURE 303.2 VERTICAL CHANGE IN LEVEL

FIGURE 303.3 BEVELED CHANGE IN LEVEL

303.2 VERTICAL. CHANGES IN LEVEL OF 1/4" HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. (FIG. 303.2)
303.3 BEVELED. CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 (FIG. 303.3)
303.4 RAMPED. CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE RAMPES AND SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTION 405 AND 406.

303 CHANGES IN LEVEL

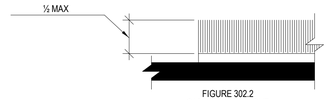


FIGURE 302.2
CARPET PILE HEIGHT

302 GENERAL. FLOOR OR GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT, AND SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTION 302.
302.2 CARPET. PILE HEIGHT SHALL BE 1/2" MAXIMUM. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR OR GROUND AND SHALL HAVE TRIM ALONG ENTIRE LENGTH OF EXPOSED EDGE. CARPET EDGE TRIM SHALL COMPLY WITH ICC/ANSI A117.1-1998 SECTION 303. (FIG. 302.2)

302 FLOOR OR GROUND SURFACES

GOLFTEC

GOLFTEC
LEE'S SUMMIT

GOLFTEC
INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=COLS, DC=LOC
Date: 2020.03.18 12:02:49-05'00'

Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	

GT PROJECT NO: GT-461

ADA CLEARANCES

A003

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DIVISION 01 - GENERAL REQUIREMENTS

SUMMARY OF WORK
CONSTRUCTION DRAWINGS:
· CONSTRUCTION DRAWING SHALL NOT BE SCALED IN ORDER TO DETERMINE LOCATIONS OF ITEMS OF CONSTRUCTION. LARGER SCALE DETAILS TAKE PRECEDENCE OVER NON-DIMENSIONED DETAILS.
· THE WORD 'FURNISH' IS USED TO MEAN 'SUPPLY' COMPLETE WITH ALL ESSENTIAL ACCESSORIES SO THAT THE WORK WHEN INSTALLED FUNCTION FOR ITS INTENDED USE, AND DELIVERY TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS.
· THE WORD 'INSTALL' IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE UNLOADING, UNPACKING ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, CONNECTING PROTECTING, CLEANING AND SIMILAR OPERATIONS NECESSARY FOR THE WORK TO FUNCTION FOR ITS INTENDED USE.
· THE WORD 'PROVIDE' MEANS 'FURNISH AND INSTALL', AS DEFINED ABOVE, COMPLETE IN-PLACE AND READY FOR INTENDED USE. THE WORD 'PROVIDE' THUS REQUIRES INCLUSION OF ALL ACCESSORIES, ATTACHMENTS, SUPPORT SAND SERVICES NECESSARY TO COMPLY WITH THIS DEFINITION, WHETHER OR NOT SPECIFICALLY IDENTIFIES OR DESCRIBED IN THE CONSTRUCTION DOCUMENTS

PERMIT SUBMISSIONS, REVIEWS, APPROVALS & FEES:
· PERMIT SUBMISSIONS BY CONTRACTOR: THE CONTRACTOR SHALL SUBMIT THE APPLICATION FOR THE BUILDING PERMIT SUBMISSION, AND SHALL INCLUDE ALL ARCHITECT/ENGINNER SIGNED/SEALED CONSTRUCTION DRAWINGS AND OTHER REQUIRED DOCUMENTS.
· THE CONTRACTOR WILL COORDINATE WITH THE ARCHITECT TO PROVIDE FOLLOW-UP COORDINATION WITH THE LOCAL JURISDICTION, AS REQUIRED, WITH RESPECT TO BUILDING-RELATED ISSUES THAT IMPACT THE APPROVAL AND RELEASE OF THE BUILDING.

PATCHING: PATCH CONSTRUCTION BY FILLING, REPAIRING, CLOSING UP, AND SIMILAR OPERATIONS FOLLOWING PERFORMANCE OF OTHER WORK. PATCH WITH DURABLE SEAMS THAT ARE INVISIBLE AS POSSIBLE. PROVIDE MATERIALS AND COMPLY WITH INSTALLATION REQUIREMENTS SPECIFIED IN OTHER SECTION OF THESE SPECIFICATIONS.
· INSPECTION: WHERE FEASIBLE, TEST AND INSPECT PATCHED AREAS AFTER COMPLETION TO DEMONSTRATE INTEGRITY OF INSTALLATION.
· EXTERIOR BUILDING ENCLOSURE: PATCH COMPONENTS IN A MANNER THAT RESTORES ENCLOSURE TO A WATERTIGHT CONDITION.
· EXPOSED FINISHES: RESTORE EXPOSED FINISHED OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO RETAINED ADJOINING CONSTRUCTION IN A MANNER THAT TWILL ELIMINATE EVIDENCE OF PATCHING AND REFINISHING.
· FLOORS AND WALLS: WHERE WALLS OR PARTITIONS THAT ARE REMOVED EXTEND ONE FINISHED ARE INTO ANOTHER, PATCH AND REPAIR FLOOR AN WALL SURFACES IN THE NEW SPACE. PROVIDE AN EVEN SURFACE OF UNIFORM FINISH, COLOR, TEXTURE AND APPEARANCE, REMOVE EXISTING FLOOR AND WALL COVERING AND REPLACED WITH NEW MATERIALS, IF NECESSARY, TO ACHIEVE UNIFORM COLOR AND APPEARANCE.
· WHERE PATCHING OCCURS ON A PAINTED SURFACE, APPLY PRIMER AND INTERMEDIATE PAIN COATS OVER THE PATCH AND APPLY FINAL PAIN COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING THE PATCH. PROVIDE ADDITIONAL COATS UNTIL PATCH BLENDS WIT ADJACENT SURFACES.
· CEILING: PATCH, REPAIR OR RE-HANG EXISTING CEILING AS NECESSARY TO PROVIDE EVEN-PLANE SURFACE OF UNIFORMS APPEARANCE.
· FIRESTOP ALL PENETRATIONS IN FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS, AN AS REQUIRED TO COMPLETELY SEAL THESE PENETRATION, REFER TO DIVISION 7 - THORUHG-PENETRATION FIRESTOP SYSTEMS AND FIRE-RESISTEIVE JOINS SYSTEMS.

REFERENCE STANDARDS
SUMMARY:
· ANY MATERIAL OR PROCEDURE SPECIFIED BY REFERENCE NUMBER, SYMBOL, OR TITLE OF STANDARDS SUCH AS A COMMERCIAL STANDARD, FEDERAL SPECIFICATION, TRADE ASSOCIATION STANDARD, TECHNICAL SOCIETY STANDARD, OR OTHER SIMILAR STANDARD DOCUMENT SHALL COMPLY WITH THE REQUIREMENT IN THE LATEST REVISION THEREOF OF ANY AMENDMENT OR SUPPLEMENT THERETO, EXCEPT AS MAY BE LIMITED TO TYPE, CLASS OR GRADE, OR MODIFIED IN SUCH REFERENCE. REFERENCE DOCUMENTS SHALL BE CONSIDERED AN INTEGRAL PART OF THIS PROJECT MANUAL AS IF INCLUDED IN THEIR ENTIRETY.
· THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF ASSOCIATION, TRADE, OR FEDERAL STANDARD, EXCEPT WHEN MORE STRINGENT REQUIREMENTS ARE SPECIFIED OR ARE REQUIRED BY APPLICABLE CODES.
· SHOULD A SPECIFIED REFERENCE STANDARD CONFLICT WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REQUEST A CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

SCHEDULE OF REFERENCES:
ACI - AMERICAN CONCRETE INSTITUTE
AF&PA - AMERICAN FOREST AND PAPER ASSOCIATION
AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI - AMERICAN IRON AND STEEL INSTITUTE
ANSI - AMERICAN NATIONAL STANDARDS INSTITUTE
APA - AMERICAN PLYWOOD ASSOCIATION
ASCE/SEI - AMERICAN SOCIETY OF CIVIL ENGINEERS STRUCTURAL ENGINEERING INSTITUTE
ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWC - AMERICAN WOOD COUNCIL
AWI - AMERICAN WOODWORKING INSTITUTE
AWPA - AMERICAN WOODL-PRESERVERS ASSOCIATION
AWS - AMERICAN WELDING SOCIETY
SRSI - CONCRETE REINFORCING STEEL INSTITUTE
DOC - U.S. DEPARTMENT OF LABOR NATIONAL INSTITUTE OF STANDARDS AND TEHCNOLOGY
FGMA - FLAT GLASS MARKETING ASSOCIATION
FM - FACTORY MUTUAL STANDARDS LABORATORIES DEPARTMENT
FS - FEDERAL SPECIFICATION GHA FEDERAL SUPPLY SERVICE
GA - GYPSUM ASSOCIATION
GANA - GLASS ASSOCIATION OF NORTH AMERICA
ICC - INTERNATIONAL CODE COUNCIL
IEEE - INSTITUTE OF ELECTRICAL & ELECTRONICS
IGMA - INSULATING GLASS MANUFACTURERS ALLIANCE
IMI - INTERNATIONAL MASONRY INSTITUTE
IWPA - INTERNATIONAL WOOD PRODUCTS ASSOCIATION
LGSEA - LIGHT GAUGE STEEL ENGINEERS ASSOCIATION
NAAMM - NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURER
NCMA - NATIONAL CONCRETE MASONRY ASSOCIATION
NFPA - NATION FIRE PROTECTION ASSOCIATION
NELMA - NORTHEASTERN LUMBER MANUFACTURER ASSOCIATION
NRCA - NATIONAL ROOFING CONTRACTORS ASSOCIATION
SDI - STEEL DECK INSTITUTE
SDI - STEEL DOOR INSTITUTE
SJI - STEEL JOIST INSTITUTE
SMACNA - SHEET METAL & AIR CONDITIONING CONTRACTOR' NATIONAL ASSOCIATION, INC.
SPRI - SINGLE-PLY ROOFING INSTITUTE
SSPC - STEEL STRUCTURES PAINING COUNCIL
TMS - THE MASONRY SOCIETY
UL - UNDERWRITERS LABORATORIES
WHI - WARNOCK HERSEY INTERTEK - ETL SEMKO
WRI - WIRE REINFORCEMENT INSTITUTE, INC.
WWPA - WESTERN WOOD PRODUCTS ASSOCIATION
LOCAL CODES, STATE LAWS AN ALL OTHER GOVERNING AUTHORITIES.

SCOPE OF WORK: THESE DRAWINGS INDICATE GENERAL SCOPE OF WORK AND DESIGN INTENT ONLY. THE GENERAL CONTRACTOR SHALL VISIT THE SITE. REVIEW CONSTRUCTION CONDITION AND PRIOR TO STARING WORK, SHALL VERIFY ALL DIMENSION SHOWN ON THE DRAWINGS, ALL SITE CONDITION AND ALL REQUIREMENT FOR THE PROJECT. THE INTENTION OF THESE DRAWINGS IS TO PROVIDE FOR WORK COMPLETE IN EVERY DETAIL EVEN THROUGH EVERY TIME INVOLVED MAY NOT BE SHOWED OR MENTION IN PARTICULAR, THE GENERAL CONTRACTOR SHALL PROVIDE ALL SUPERVISION, TOOLS, MATERIALS, LABOR SERVICES, TRANSPORTATION, ETC. NECESSARY FOR COMPLETION OF THE WORK INTENDED TO BE SHOWN AND/OR DESCRIBED. VARIATION OR AMBIGUITIES BETWEEN THESE DRAWINGS AND ACTUAL SIDE AND CONSTRUCTION CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING AND SHALL BE RESOLVED AND DOCUMENTED BY THE GENERAL CONTRACTOR IN WRITING PRIOR TO STARTING CONSTRICTION OTHERWISE, THE GENERAL CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH THE MOST STRINGENT NOTATION OR REQUIREMENT TO PROPERLY AND FUNCTION EXECUTE THE WORK OF HIS CONTRACT.

CHANGES IN THE WORK: THE ARCHITECT IS NOT RESPONSIBLE FOR SITE INSPECTION, GENERAL OBSERVATIONS AND/OR DEVIATIONS FROM THE CONSTRUCTION DOCUMENT. NO DEVIATION FROM THE WORK SHOWN OR REASONABLY IMPLIED SHALL BE UNDERTAKEN WITHOUT CONSENT FROM THE ARCHITECT.

MEANS AND METHODS: THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PRODUCTION PROCEDURES REQUIRED FOR THE PROPER AND SAFE EXECUTION AND COMPLETION OF THE WORK AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTION. PROCEDURES AND PROBLEMS IN CONNECTION WITH THE WORK.

MATERIALS AND GUARANTEE: ALL MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW, UNLESS OTHERWISE SPECIFIED AN ALL WORK SHALL BE OF GOOD QUALITY AND FREE FROM FAULTS AND DEFECT. ALL WORK SHALL BE GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION. ALL MANUFACTURER'S SHALL BE IN EXCESS OF THE CONTRACTOR'S GUARANTEE.

RECORD DRAWINGS: THE GENERAL CONTRACTOR SHALL PROVIDE ACCURATE 'RECORD DRAWINGS' TO DOCUMENT ANY VARIATIONS FROM WORKING, ENGINEERING OR SHOP DRAWING TO INDICATE THE ACTUAL 'CONSTRUCTED' CONDITIONS WITH PARTICULAR REFERENCE TO WORK WHICH WILL BE SUBSEQUENTLY CONCEALED, UPON COMPLETION OF WORK.

DIVISION 06 - WOOD, PLASTICS & COMPOSITES

QUALITY ASSURANCE:
A. ALL EXPOSED MATERIALS PROVIDED UNDER THIS SECTION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS AND A SMOKE DEVELOPMENT RATING OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE EVIDENCE OF SUCH PRIOR TO ORDERING SUCH PRODUCTS OR MATERIALS.

ROUGH & FINISH CARPENTRY
A. LUMBER AND PLYWOOD
- ROUGH CARPENTRY: VISIBLE GRADE STAMP, OF NFPA-CERTIFIED AGENCY, HEM-FIR OR EQUAL SELECT STRUCTURAL NO.2 GRADE OR BETTER, 1200 PSI MINIMUM WITH A MAXIMUM 19% MOISTURE CONTENT.
- FINISH CARPENTRY, AWS CUSTOM GRADE FOR STAINED FINISH, MATCH PLASTIC LAMINATE APPEARANCE, GRAIN AND STAIN. FINISH IN ACCORDANCE WITH AWS SECTION 5, TRANSPARENT, SEMI-GLOSS FINISH
- DIMENSIONAL LUMBER FOR SILLS, BASE, BUMPER GUARDS AND OTHER EXPOSED AREAS OF RECEIVING AND STORAGE: S4S GRADE B OR BETTER, SOUTHERN YELLOW PINE.
- PLYWOOD (TELEPHONE BACKBOARD): 3/4" THICK A-D INTERIOR.

B. PRESSURE TREATED LUMBER AND PLYWOOD: WHERE SHOWN AND AS REQUIRED BY THE LOCAL JURISDICTION, PROVIDE FIRE RETARDANT TREATMENT, WITH FLAME SPREAD RATING OF 25 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84, EQUAL TO 'EXTERIOR FIRE-X' TREATMENT AS MANUFACTURED BY HOOVER TREATED WOOD PRODUCTS, INC. THOMPSON GA (706/ 595-5068) WWW.FRTW.COM
C. FIRE RETARDANT TREATED LUMBER AND PLYWOOD: WHERE SHOWN AS REQUIRED BY THE LOCAL JURISDICTION PROVIDE AWPA TYPE A FIRE RETARDANT TREATMENT, WITH FLAME SPREAD RATING OF 25 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E 84, EQUAL TO 'PYRO-GUARD' TREATED AS MANUFACTURED BY HOOVER TREATED WOOD PRODUCTS, INC. THOMPSON GA (706/ 595-5068) WWW.FRTW.COM

DIVISION 07 - THERMAL & MOISTURE PROTECTION

ACOUSTICAL INSULATION:
A. INTERIOR SOUND ATTENUATION (FIBERGLASS BATTS): PROVIDE UNFACED BATS FOR INTERIOR SOUND ATTENUATION PURPOSES AT WALL, CEILINGS AND OTHER LOCATION WHERE SHOWN OR SCHEDULE ON THE DRAWINGS, ASTM C665, TYPE 1, CLASS A.
1. THICKNESS: TO NOMINALLY FILL CAVITY OR AS NOTED ON DRAWINGS
2. NOISE REDUCTION COEFFICIENT, ASTM C423 (2 INCH SAMPLES) 1
3. FLAME SPREAD, ASTM E84: 25
4. SMOKE DEVELOPED, ASTM E84: 50

BUILDING INSULATION (WHERE REQUIRED):
A. FIBERGLASS BATT INSULATION: PROVIDE 3 1/2" THICK (R-11) AND 6" (R-19) FIBERGALL FOI/CRIM FACED (FSK OR FRK) WITH SURFACE BURNING CHARACTERISTICS OF 25/20 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84, PRODUCTS BY CERTAIN TEED CORP, OWENS CORNING, JOHN MANVILLE OR KNAUF FIBER GLASS.

SEALANTS AND CAULKING
A. SLNT-3: TWO-COMPONENT SELF-LEVELING URETHANE, ASTM C920, TYPE M, GRADE P, CLASS 25, USE T; MULTI-COMPONENT, CHEMICAL CURING, NON-STAINING, NON-BLEEDING WITH MOVEMENT CAPABILITY OF +25 PERCENT.
1. PECORA, 'UREXPAN NR-200'
2. SONNEBORN, 'SONOLASTIC SL2'
3. TREMCO, 'THC-900'

B. SLNT-4: ONE COMPONENT LATEX, ASTM C834, SINGLE COMPONENT, SOLVENT CURING, NON-STAINING, NON-BLEEDING, NON-SAGGING, PAINT-ABLE, CABLE OF +/- 7.5 PERCENT MINIMUM MOVEMENT.
1. PERCORA 'AC-20 SILICONIZED'
2. SONNEBORN, 'SONOLAC'
3. REMCO, 'TREMFLEX 834'

C. SLNT-5: SILICONE SANITARY SEALANT, ASTM C920, TYPE S, GRADE NS, MILDEW RESISTANT, USDA APPROVED.
1. DOW CORNING, '786 MILDEW RESISTANT SILICONE SEALANT'
2. GENERAL ELECTRIC, 'GE SILICONE SANITARY 170 SEALANT'
3. TREMCO, 'TREMFLEX 834'
USES: INTERIOR USE: MISCELLANEOUS INTERIOR AND EXTERIOR JOINTS SUBJECT TO MODERATE MOVEMENT AND JOINTS TO BE PAINTED.

D. SEALANT COLORS: THE COLOR FOR EACH SEALANT INSTALLATIONS TO BE SELECTED TO CLOSELY MATCH THE COLOR OF AT LEAST ONE OF THE ADJACENT SURFACES.
1. WHEN THE SEALANT IS NOT PAINTED BY SUBSEQUENT CONSTRUCTION OPERATION AS INDICATED ON THE DRAWINGS. THE COLOR FOR EACH SEALANT INSTALLATIONS TO BE SELECTED TO CLOSELY MATCH THE COLOR OF AT LEAST OF THE ADJACENT SURFACES.
2.SHOULD AN ACCEPTABLE COLOR NOT BE AVAILABLE FROM AN APPROVED SUBSTITUTE MANUFACTURER NOT HEREIN LISTED, EXCEPT AT ADDITIONAL CHARGE THE CONTRACTOR SHALL PROVIDE SUCH PREMIUM COLORS ACCEPTABLE TO THE OWNER.
3. IN CONCEALED INSTILLATION, USE STANDARD COLOR GRAY OR BLACK SEALANT.

E. PRIMERS: USE ONLY THOSE PRIMERS WHICH HAVE BEEN TESTED FOR DURABILITY ON THE SURFACES TO BE SEALED AND ARE SPECIFICALLY RECOMMENDED FOR THIS INSTALLATION BY THE MANUFACTURERS OF THE SEALANT USED.

F. BACKUP MATERIALS; USE ONLY THOSE BACKUP MATERIALS WHICH ARE NON-ABOSORBENT, NON-STAINING, AND SPECIFICALLY RECOMMENDED OF THE INSTALLATION BY THE MANUFACTURERS OF THE SEALANT USED.

G. THROUGH-PENETRAION FIRESTOP SYSTEMS: PROVIDE F-RATED FIRESTOP SYSTEMS DETERMINED PER ASTM E814: WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450 RESPECTIVELY AS DETERMINED PER ASTM E84. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
1. HILTI, INC.
2. SPECIFIED TECHNOLOGIES, INC.
3. 3M; FIRE PROTECTION PRODUCTS.

H. FIRE-RESISTIVE JOINT SYSTEMS. PROVIDE FIRE=RESISTIVE JOINT SYSTEMS THAT ARE PRODUCED AND INSTALLED TO RESIST SPREAD OF FIRE: RESIST PASSAGE OF SMOKE AND OTHER GASES, AND MAINTAIN ORIGINAL FIRE RESISTANCE RATING OF ASSEMBLY IN WHICH FIRE-RESISTIVE JOINT SYSTEMS ARE INSTALLED; WITH FLAME-SPREAD AND SMOKE-DEVELOPED INDEXED OF LESS THAN 25 AND 450 RESPECTIVELY AS DETERMINED PER ASTM E84. THE FOLLOWING ARE ACCEPTABLE MANUFACTURERS:
1. HILTI, INC.
2. SPECIFIED TECHNOLOGIES, INC.
3. 3M; FIRE PROTECTION PRODUCTS

DIVISION 08 - DOORS & WINDOWS

A. NOT USED

B. INSTALL HOLLOW METAL DOORS AND FRAMES IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PROVISIONS OF SDI-105. HANG DOORS PLUMB, SQUARE AND LEVEL TO PROVIDE FOR EASY OPERATION.

C. DOOR HARDWARE:
- GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL FINISH HARDWARE AND ACCESSORIES NECESSARY FOR A COMPLETE PROJECT WHETHER THE ITEMS ARE SPECIFICALLY SCHEDULED OR NOT.
- INSTALL ALL HARDWARE IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, UTILIZING AN APPROPRIATE DEVICE OR ADHESIVE.

DIVISION 09 - FINISHES

A. GYPSUM WALLBOARD:
1. INTERIOR REGULAR GYPSUM WALLBOARD: PROVIDE TYPE III, GRADE R, CLASS 1, 5/8" THICK.
2. INTERIOR FIRE-RETARDANT WALLBOARD: PROVIDE TYPE III, GRADE X, CLASS 1, UL LISTED 5/8" THICK.
3. INTERIOR MOISTURE-RESISTANT GYPSUM WALLBOARD: PROVIDE AT WALLS ONLY AT DAMP LOCATIONS WHERE SCHEDULED OR OTHERWISE SHOWN ON THE DRAWINGS 1/2" OR 5/8" THICK. FIRE-RETARDANT MOISTURE-RESISTANT WALLBOARD WHERE REQUIRED, GRADE X, UL LISTED, 5/8" THICK.
- GOLD BOND BRAND XP AND GOLD BOND BRAND XP FIRE-SHEILD WALLBOARD, BY NATIONAL GYPSUM COMPANY.
- SHEETROCK BRAND AND FIRECODE CORE HUMITEK GYPSUM PANELS, BY USG.
4. CORNER BEADS: PROVIDE GALVANIZED STEEL ANGLE SHAPES WITH WINGS NOT LESS THAN 1" WIDE AND PERFORATED FOR NAILING THE JOINT TREATMENT. PRODUCT: DUR-A-BEAD BY USG.
5. CASING BEADS: PROVIDE GALVANIZED STEEL J-SHAPED CHANNEL CASING BEADS AT EXPOSED WALLBOARD EDGES AT LOCATION INCLUDING, BUT NOT LIMITED TO EDGES AT TOP OF PARTIAL HEIGHT PARTITION AND VERTICAL AND HORIZONTAL EDGES WHERE GYPSUM WALLBOARD ABUTS OTHER MATERIALS AND REVEALS. PRODUCT: 200-A BY USG.
6. EDGE BEADS (CEILING PERIMETER): PROVIDE GALVANIZED STEEL L-SHAPED CHANNEL CASING BEAD WITHOUT A BACK FLANGE FOR USE AT PERIMETER OF CEILINGS. PRODUCT: 200-B BY USG.
7. CONTROL JOINTS: PROVIDE STALBE-APPLIED FOLL-OFRED ZINC CONTROL WHERE SHOWN ON THE DRAWING AT 30'0" O.C. MAXIMUM. PROVIDE FLUSH CAULK BEAD TO FILL 1/4" OPEN SLOT AFTER PROTECTIVE TAPE IS REMOVED AFTER ADJACENT WALLBOARD FINISHING. PRODUCT: ZINC CONTROL JOINT NO. 093 BY USG.
8. PROVIDE A JOINTING SYSTEM, INCLUDING REINFORCING TAPE AND COMPOUND, DEIGNED AS A SYSTEM TO BE USED TOGETHER AND AS RECOMMENDED FOR THIS USE BY THE MANUFACTURER OF THE GYPSUM WALL BOARD APPROVED FOR USE ON THIS WORK. JOINTING COMPOUND MAY BE USED FOR FINISH IF SO RECOMMENDED BY IT'S MANUFACTURER.
9. FASTENING SYSTEM: FOR FASTENING GYPSUM WALLBOARD IN PLACE ON STUDS, CHANNELS, USE FLA-HEAD SCREW, SHOULDERED, SPECIFICALLY DESIGNED FOR USE WITH POER-DRIVEN TOOLS, NOT LESS THAN 1" LONG, WITH SELF-TAPPING THREADS AND SELF-DRILLING POINTS.
10. FIRESTOP SYSTEM: PROVIDE ALL FIRESTOP MATERIALS AS REQUIRED TO COMPLY WITH CODE REQUIREMENTS, CONSISTING OF FIRE RATED WALL ASSEMBLIES, FORMING MATERIALS AND SEALANTS.
a. REFER TO DIVISION 7 - THROUGH PENETRATION FIRESTOP SYSTEMS
b. REFER TO DIVISION 7 - FIRE-RESISTIVE JOINT SYSTEMS.
11. FINISHING: PROVIDE LEVELS OF GYPSUM WALLBOARD FINISH FOR LOCATION AS FOLLOWS, IN ACCORDANCE WITH GYPSUM ASSOCIATION GA-214.
a. LEVEL 1: CEILING PLENUM AREAS AND CONCEALED AREAS, EXCEPT PROVIDE HIGHER LEVEL OF FINISH AS REQUIRED TO COMPLY WITH FIRE RESISTANCE RATING AND ACOUSTICAL RATINGS.
b. LEVEL 2: GYPSUM WALLBOARD SUBSTRATES AT TILE, EXCEPT REMOVE TOOL MARKS AND RIDGES.
c. LEVEL 3: GYPSUM WALLBOARDS SURFACES, WHERE TEXTURED FINISHES WILL BE USED OR HEAVY VINYL WALL COVERING.
d. LEVEL 4: GYPSUM WALLBOARD SURFACES, EXCEPT WHERE ANOTHER FINISH LEVEL IS INDICATED.
B. SUSPENDED ACOUSTICAL CEILING:
1.COMPLY WITH THE APPLICABLE PROVISION OF THE FOLLOWING: ASTM C635 - METAL SUSPENSION SYSTEM FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS: ASTM C363 - INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-INPANELS; ASTM E480 - STANDARD PRACTICE FOR APPLICATION OF CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS REQUIRING SEISMIC RESTRAINTS (IF SEISMIC RESTRAINTS ARE REQUIRED BY THE LOCAL JURISDICTION)
2.GRID SYSTEM: PROVIDE GRID SYSTEM WHERE SHOWN ON THE DAWING AS MANUFACTURED BY ARMSTRONG.
a. 15/16". STRUCTURAL CLASSIFICATION: MEDIUM DUTY: SEISMIC CATEGORY A, B, C.
b. ATTACHMENT DEVICES SIZE FOR 5 TIMES DETING LOAD INDICATED IN ASTM C635, TABLE 1 DIRECT HUNG UNLESS OTHERWISE INDICATED.
c. WIRE FOR HANGER AND TIES: ASTM A641, CLASS 1 ZINC COATING, SOFT TEMPER, PRE-STRETCHED, WITH A WIELD STRESS LOAD OF AT LEAST 3 TIMES DESIGN LOAD, BUT NOT LESS THAN 12 GAUGE.
d. COLOR: WHITE
3.ACOUSTICAL CEILING PANELS: PROVIDE ACOUSTICAL CEILING PANELS WHERE SHOWN ON THE DRAWINGS AS MANUFACTURED BY ARMSTRONG WORLD INDUSTRIES, INC.
a. FLAME SPREAD/FIRE RESISTANCE: CLASS A: FLAME SPREAD 25 OR LESS PER ASTM E1264.
b. TYPE, SIZE, COLOR: REFER TO DRAWINGS.
4.EXTRA STOCK: PROVIDE CEILING TILE STOCK FOR OWNER'S USE. INCLUDE 1 CARTON OF EACH TYPE OF PANELS USED. STORE AS DIRECTED BY THE OWNER.

C. RESILIENT FLOOR:
1. VINYL FLOOR TILE: THE CONTRACTOR SHALL INSTALL OWNER PROVIDED VINYL LUXURY TILE WHERE SHOWN ON THE DRAWINGS. DIRECTION OF INSTALL SHALL MATCH WHAT IS REPRESENTED ON DRAWINGS.
2. INSTALL OWNER PROVIDED VINYL WALL BASE: VINYL WALL BASE 1/8" GAUGE, 4" HIGH, ASTM 3648 CRITICAL RADIANT FLUX CLASS1 - 0.45 OR MORE WATTS/CM, ASTM E622 SMOKE DEVELOPED 450 OR LESS.
3. FLOOR TRANSITION STRIPS: INSTALL OWNER PROVIDED TRANSITION STRIPS AS REQUIRED AT CHANGES IN FLOOR MATERIALS.
4. CONCRETE SLAB: VERIFY THAT CONCRETE SLAB IS SMOOTH, LEVEL AND WITH NO MORE THAN 1/8" IN 10'-0" VARIATION FROM LEVEL.
5. PROVIDE CONCRETE SLAB PRIMER AND ADHESIVES AS RECOMMENDED BY THE PRODUCT MANUFACTURER.
6. FLASH PATCH AND LEVELING: PROVIDE FLASH PATCHING AND LEVELING SO AS TO BRING THE CONCRETE SLAB SURFACE FROM AS AS-FOUND CONDITION TO WITHIN THE FLOORING PRODUCT MANUFACTURERS RECOMMENDED ALLOWABLE DEVIATION FROM PLANE.
7. INSTALL TILE, BASE, AND TRANSITIONS PER MANUFACTURER'S RECOMMENDATIONS.

D. CARPET:
1. THE CONTRACTOR SHALL PROVIDE CONCRETE SLAB TESTING & TREATMENT TO ENSURE ADEQUATE BONDING OF THE SCHEDULED FLOORING. COORDINATE WITH FLOORING MANUFACTURER'S REQUIREMENTS & RECOMMENDATIONS.
2. CARPET: MANUFACTURER: THE CONTRACTOR SHALL INSTALL OWNER PROVIDED CARPET WHERE SHOWN ON THE DRAWINGS.
3. ADHESIVE: THE CONTRACTOR SHALL PROVIDE CONCRETE SLAB PRIMER AND ADHESIVE AS RECOMMENDED BY THE PRODUCT MANUFACTURER.
4. OTHER MATERIALS: THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, NOT SPECIFICALLY DESCRIBED BUT REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

E. PAINTING:
1. THE WORK INCLUDES PAINTING AND FINISHED OF ALL EXTERIOR AND INTERIOR ITEMS AND SURFACES.
2. VOC/VOS REGULATIONS: ALL PAINT COATING SHALL CONFORM TO STATE AND LOCAL REGULATION INCLUDING VOC/VOS RULES IN EFFECT AT THE TIME OF PAINT APPLICATION.
3. SURFACE PREPARATION:
a. PROVIDE ALL SURFACE PREPARATION AND CLEANING PROCEDURES PER MANUFACTURER'S PRINTED RECOMMENDATIONS.
b.THE SURFACE MUSE BE DRAY AND IN SOUND CONDITION. REMOVE OIL, DUST, LOOSE RUST, PEELING PAINT OR OTHER CONTAMINATION TO ENSURE GOOD ADHESION.
c.REMOVE MILDEW BEFORE PAINTING BY WASHING WITH A SOLUTION OF 1 PART LIQUID HOUSEHOLD BLEACH AND 3 PART OF WARM WATER. APPLY THE SOLUTION AND SCRUB THE MILDEWED AREA. ALLOW THE SOLUTION TO REMAIN ON THE SURFACE FOR 10 MINUTES. RINSE THOROUGHLY WITH CLEAN WATER AND ALLOW THE SURFACE TO DRY 48 HOURS BEFORE PAINTING. WEAR PROTECTIVE GLASSES OR GOGGLES, WATERPROOF GLOVES, AND PROTECTIVE CLOTHING. QUICKLY WASH OF ANY MIXTURE THAT COMES IN CONTACT WITH YOUR SKIN. DO NOT ADD DETERGENTS OR AMMONIA TO THE BLEACH/WATER SOLUTION.
d.ALUMINUM: REMOVE ALL OIL, GREASE, DIRT AND OTHER FOREIGN MATERIAL BY CLEANING PER SSPC-SP1, SOLVENT CLEANING.
e. CONCRETE BLOCK: REMOVE ALL LOSE MORTAL AND FOREIGN MATERIAL. SURFACE MUST BE FREE OF LAITANCE, CONCRETE DUST, DIRT, FORM RELEASE AGENTS, MOISTURE CURING MEMBRANES, LOOSE CEMENT, AND HARDENERS. CONCRETE AND MORTAR MUST BE CURED AT LEAST 30 DAYS AT 75°F. THE PH OF THE SURFACE SHOULD BE BETWEEN 6 AND 9 UNLESS THE PRODUCTS TO BE USED ARE DESIGNED TO BE USED IN HIGH PH ENVIRONMENTS (SUCH AS SERWIN-WILLIAMS LOXON), ON CAST IN-PLACE CONCRETE, COMMERCIAL DETERGENTS AND ABRASIVE BLASTING MAY BE NECESSARY TO PREPARE THE SURFACE. FILL BUG HOLES, AIR POCKETS AND OTHER VOIDS WITH A CEMENT PATCHING COMPOUND.
f.CONCRETE, SSPC-SP13 OR NACE 6:THIS STANDARD GIVE REQUIREMENTS FOR SURFACE PREPARATION OF CONCRETE BY MECHANICAL, CHEMICAL OR THERMAL METHODS PRIOR TO THE APPLICATION OF BONDED PROTECTIVE COATING OR LINING SYSTEMS. THE REQUIREMENTS OF THIS STANDARD ARE APPLICABLE TO ALL TYPES OF CEMENTATION SURFACES INCLUDING CAST-IN-PLACE CONCRETE FLOOR AND WALLS, PRECAST SLABS AND MASONRY WALL, AN ACCEPTABLE PREPARED CONCRETE SURFACE SHOULD BE FREE OF CONTAMINANTS, LAITANCE, LOOSE ADHERING CONCRETE, AND DUST, AND SHOULD PROVIDE A SOUND, UNIFORM SUBSTRATE SUITABLE OF THE APPLICATION OF PROTECTIVE COATING, OR LINING SYSTEMS.
g.GALVANIZED METAL: CLEAN PER SSPC-SP1 USING DETERGENT AND WATER OR A DEGREASING CLEANER TO REMOVE GREASES AND OILS. PRE-TREAT AND APPLY AN ACID ETCH.
h.STEEL: STRUCTURAL, PLATE, ETC: CLEANING BY ONE OR MORE OF THE FOLLWING SURFACE PREPARATION SOLVENT CLEANING SSPC-SP1; HAND TOOL CLEANING; POWER TOOL CLEANING, SSPC-SP3; BRUSH OFF BLAST CLEANING, SSPC-SP7.

MATERIAL RESPONSIBILITIES

PRODUCT TYPE	DESCRIPTION	ORDERED AND PROVIDED BY	INSTALLATION	NOTES
LIGHTING AND CONTROLS	2X2 LED	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	1.) MUST USE GOLFTEC PREFERRED VENDOR ONLY (SES LIGHTING) 2.) GOLFTEC WILL INITIATE THE PRODUCT ORDER AND CONNCET GC AND VENDOR TO ENSURE ALL PRODUCT IS ORDERED AND DELIVERED WHEN NEEDED. INVOICE WILL GO DIRECTLY TO OWNER, NOT GENERAL CONTRACTOR 3.) GENERAL CONTRACTOR TO COORDINATE THE DELIVERAY DATE AND RECEIVING OF THE MATERIALS FROM GOLFTEC SUPPLIERS AS NEEDED. GOLFTEC PROJECT MANAGER WILL INITIATE THE CONTACT WHEN ORDER IS PLACED.
	LED CANNED AND DIRECTIONAL	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	PENDANT AND VANITY LIGHT	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	SWITCHES AND CONTROLS	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
FLOORING	CPT-1 / LOBBY CARPET TILES	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	1.) GOLFTEC WILL INITIATE THE PRODUCT ORDER AND CONNCET GC AND VENDOR TO ENSURE ALL PRODUCT IS ORDERED AND DELIVERED WHEN NEEDED. INVOICE WILL GO DIRECTLY TO OWNER, NOT GENERAL CONTRACTOR 2.) GENERAL CONTRACTOR TO COORDINATE THE DELIVERY DATE AND RECEIVING OF THE MATERIALS FROM GOLFTEC SUPPLIERS AS NEEDED. GOLFTEC PROJECT MANAGER WILL PLACE ORDER AND INITIATE THE CONTACT WHEN ORDER IS PLACED. MATERIAL CONTACTS ARE ALSO LISTED ON A103.
	CPT-3 / LOBBY CARPET TILES	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	LVT-1 / LOBBY VINYL TILE	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	TURF-1 / BLACK BAY TURF	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	TURF-2 / GREEN PUTTING TURF	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
VINYL WALL BASE	B-1 / SLATE VINYL COVE BASE	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	B-2 / BLACK VINYL COVE BASE (WITHIN HITTING BAYS)	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
RESTROOM TILE	CT-1 / RESTROOM FLOOR	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	CT-2 / RESTROOM WALL	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	CT-3 / RESTROOM WALL MOSAIC	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	GROUT FOR TILE	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
	SCHLUTER FOR TILE	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
WALL COVERING	WC-1 / DINOC	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED (WALL PAPER TYPE INSTALL)	
BAY NETS AND BAFFLES	INCLUDES FRAMES AND HARDWARE	OWNER/ GOLFTEC PROVIDED WITH GC CONFIRMATION	GC INSTALLED	
INTERIOR SIGNAGE AND GRAPHICS	ALL INTERIOR	OWNER/ GOLFTEC PROVIDED	INSTALLED BY OTHERS	
FURNITURE AND FIXTURES	BAY DESKS/ CHAIRS LOBBY FURNITURE LOBBY FIXTURES	OWNER/ GOLFTEC PROVIDED	INSTALLED BY OTHERS	
GOLFTEC TECH EQUIPMENT	CAMERAS / COMPUTERS / TVS	OWNER/ GOLFTEC PROVIDED	- GC RESPONSIBLE FOR RUNNING HDMI AND S- VIDEO CABLES - GC RESPONSIBLE FOR TV INTSALLATION, ALL OTHER EQUIPMENT TO BE INSTALLED BY OTHERS	1.) INSTALL ALL TVS PER PLAN (VERIFY EXACT LOCATION WITH GOLFTEC PM PRIOR TO INSTALLATION).
ELECTRICAL 12- PORT PATCH PANEL		GC PROVIDED AND INSTALLED	GC PROVIDED AND INSTALLED	

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Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	

GT PROJECT NO: GT-461

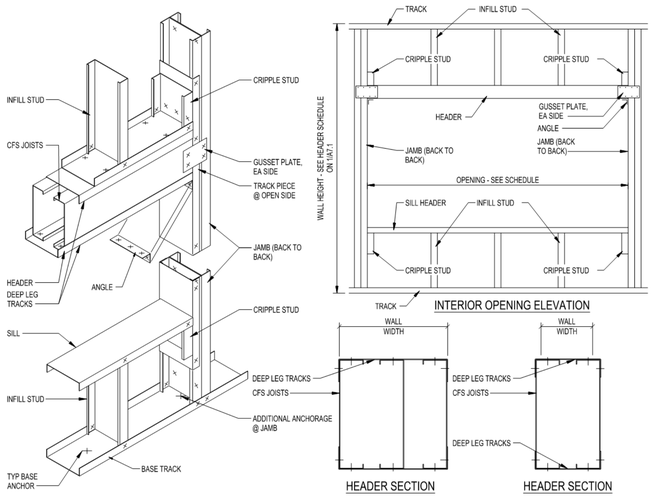
SPECIFICATIONS

A004

1/31/2020 11:53:42 AM

GENERAL NOTES:

1. CEILING CONDITIONS SHOWN ARE SCHEMATIC AND TYPICAL WALL AND PARTITION TYPES MAY VARY IN RELATION TO THE CEILING TYPES WITH WHICH THEY ARE SHOWN. RE: RCP.
2. STAGGER ALL JOINTS IN GYPSUM WALL BOARD ASSEMBLIES.
3. ALL PIPING SHALL BE PLACED ON THE WARM SIDE OF CHASE WALLS ADJACENT TO UNHEATED SPACES.
4. COMPLETE WALL FINISHES ARE NOT SHOWN ON THIS SHEET, AND WALL FINISHES VARY IN RELATION TO THE PARTITION TYPES WITH WHICH THEY MAY BE SHOWN.
5. AT ALL TILED SURFACES, PROVIDE 5/8" GLASS MESH MORTAR UNITS PER SPECIFICATIONS OF TYPICAL FIRE RATED GWB.
6. WHERE WALL OR FLOOR ASSEMBLIES OF DIFFERING FIRE RESISTANCE RATINGS ADJOIN, MAINTAIN THE INTEGRITY OF THE HIGHER RATED ASSEMBLY CONTINUOUS THROUGH ALL CONCEALED SPACES.
7. PROVIDE BLOCKING WHERE REQUIRED AND/OR WHERE SHOWN FOR SECURE ATTACHMENT OF ALL TRIM, RAILINGS, GRAB BARS, CABINETS, DOOR / WINDOW FRAMES, TOILET ACCESSORIES, ETC.
8. MAINTAIN THE INTEGRITY OF RATED PARTITIONS AT INTERSECTION WITH UNRATED PARTITIONS.
9. PROVIDE FIBERGLASS BATTS AT ALL BATHROOM PARTITIONS.



INTERIOR OPENING ELEVATION

HEADER SECTION

HEADER SECTION

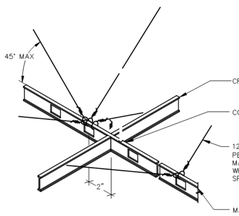
7 TYPICAL HEADER FRAMING DETAIL
3" = 1'-0"

1) THE BOTTOM TRACK OF ALL PARTITIONS/WALLS SHALL BE ATTACHED TO FLOOR W/ .177 SHANK DIA. x 1 7/16" PENETRATION @ 32" O.C. POWER DRIVEN FASTENERS HILTI OR EQ. TYP. U.N.O.
2) INTERIOR PARTITION STUD SIZING:

STUD CHART (INTERIOR NON-LOAD BEARING WALLS)		
MAXIMUM WALL HEIGHT	STUD SIZE	SPACING
10'-10"	362S125-18 (25g)	16"
12'-5"	362S125-33 (20g)	24"
13'-6"	362S125-33 (20g)	16"
15'-8"	362S125-33 (20g)	12"
16'-11"	362S162-33 (20g)	12"
19'-8"	362S162-54 (18g)	12"
26'-7"	600S162-54 (18g)	16"
35'-0"	800S162-43 (18g)	16"
GYP. BD. BOTH SIDES, FULL HEIGHT U.N.O.		

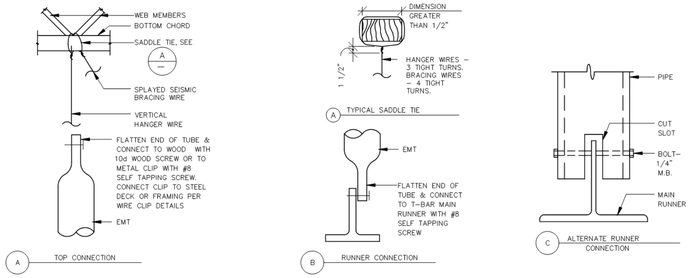
3) THE TOP TRACK OF FULL HEIGHT WALLS SHALL BE ATTACHED TO THE FRAMING WITH APPROVED SLIP JOINT. USE DETAIL 3/A7.1
4) PROVIDE MIN. 2'-0" HIGH CEMENT BOARD @ FLOOR BEHIND ALL FRP.
5) PROVIDE CEMENT BOARD UNDER ALL WALL TILE. PROVIDE WATER BARRIER BETWEE CEMENT BOARD AND FRAMING MEMBERS.
6) PROVIDE BOTTOM TRACK AS REQUIRED AT ALL PARTITIONS / WALLS.
7) PROVIDE GREEN BOARD IN WET AREAS THAT RECEIVE PAINT.

CFS HEADER SCHEDULE (INTERIOR NON-LOAD BEARING WALLS)		
OPENING	HEADER	JAMB
0'-0" TO 8'-0"	(2) 600S162-33 + (2) STUD DEPTH T150-33	MIN (2) 362S162-33 (16"-0" MAX HGT) MIN (2) 600S162-33 (20"-0" MAX HGT)
8'-1" TO 10'-0"	(2) 800S162-33 + (2) STUD DEPTH S162-33	MIN (2) 362S162-33 (14"-0" MAX HGT) MIN (2) 600S162-33 (20"-0" MAX HGT)
10'-1" TO 12'-0"	(2) 1000S162-54 + (2) STUD DEPTH S162-54	MIN (2) 362S162-33 (14"-0" MAX HGT) MIN (2) 800S162-33 (20"-0" MAX HGT)
12'-1" TO 16'-0"	(2) 1200S162-54 + (2) STUD DEPTH S162-33	MIN (2) 600S162-33 (14"-0" MAX HGT) MIN (2) 800S162-54 (20"-0" MAX HGT)
16'-1" TO 20'-0"	(3) 1200S162-54 + (2) STUD DEPTH S162-33	MIN (2) 600S162-33 (14"-0" MAX HGT) MIN (2) 800S162-54 (20"-0" MAX HGT)

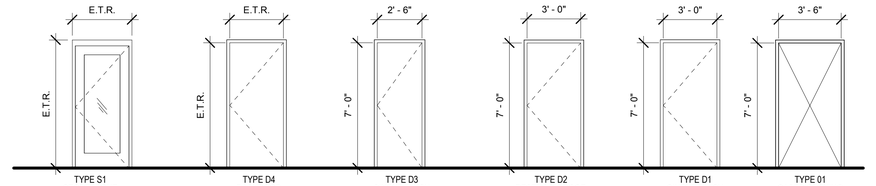


NOTES:
1. ALL VERTICAL HANGERS TO BE ATTACHED WITH 4 TWISTS IN 1 1/2" LENGTH (TYP.).
2. SUPPORT EACH LIGHT FIXTURE INDEPENDENTLY OF CEILING GRID WITH 1-#12 WIRE AT TWO CORNERS DIAGONALLY ACROSS FROM ONE ANOTHER.
3. ALL MAIN AND CROSS RUNNERS, THEIR SPLICES AND INTERSECTING CONNECTIONS SHALL BE ADEQUATE TO RESIST 72 lbs. IN TENSION.

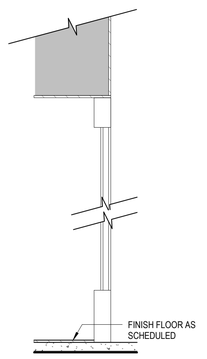
MATERIAL		SIZE	MAX. HT.
1 1/2" BLACK	C	1 1/2" X 9/16" LEGS, .062 WALL	2'-9"
1 1/2" DBL BLACK CRC	I	1 1/2 X 1 1/8" OVERALL, .062 WALL	3'-7"
1/2" DIA EMT	O	.706" O.D., .042 WALL, A=.0876 IN 2	3'-10"
3/4" DIA EMT	O	.922" O.D., .046 WALL, A=.134 IN 2	5'-2"
3/4" DIA PIPE	O	1.05" O.D., .113 WALL	5'-6"
1" DIA EMT	O	1.163" O.D., .054 WALL	6'-6"
1" DIA PIPE	O	1.315" O.D., .133 WALL	7'-0"
1 1/4" DIA EMT	O	1.510" O.D., .065 WALL	8'-0"
1 1/4" DIA PIPE	O	1.66" O.D., .140 WALL	9'-0"
1 1/2" DIA EMT INSTALL PER IBC	O	1.90" O.D., .065 WALL	10'-0"



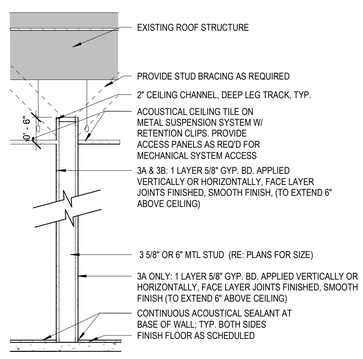
5 TYPICAL SUSPENDED CEILING BRACING DETAILS
3" = 1'-0"



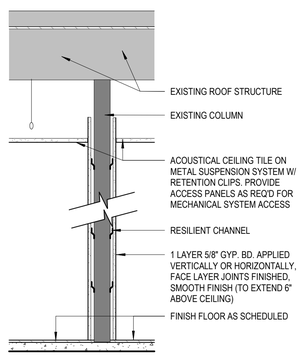
2 DOOR ELEVATIONS
1/4" = 1'-0"



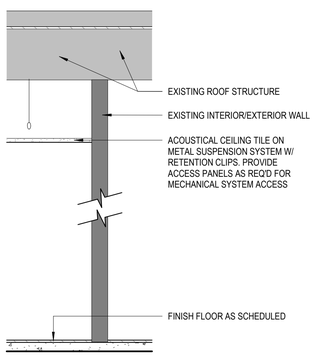
4 STOREFRONT WALL
IN-KIND WITH EXISTING; ALL MODIFICATIONS TO BE COORDINATED WITH LANDLORD



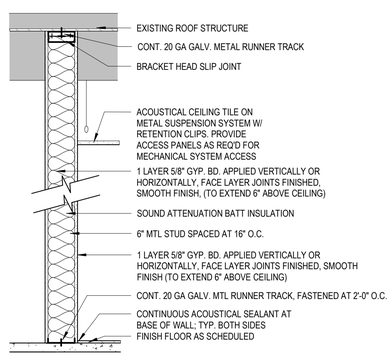
3A/B INTERIOR PARTITION WALL



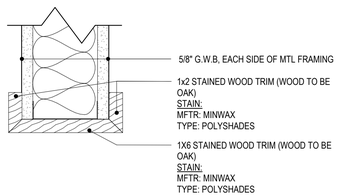
2 FURRING AT EXISTING COLUMN



1A EXISTING INTERIOR/EXTERIOR WALL



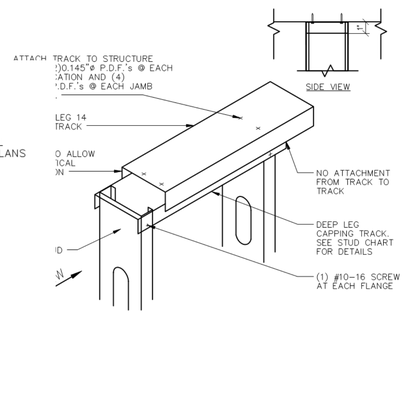
1 NEW INTERIOR DEMISING PARTITION WALL



AT BAY ENTRIES

6 WALL HEAD DETAILS
3" = 1'-0"

4 TYPICAL TRACK ANCHORAGE DETAIL
3" = 1'-0"



3 TYPICAL SLIP TRACK DETAIL
3" = 1'-0"

1 PARTITION TYPES & FLOOR/CEILING ASSEMBLIES
NTS

NOTE: REFERENCE A001 FOR INTERIOR PARTITION CLEAR SPAN TABLE

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Joe Frogge

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GT PROJECT NO: GT-461

WALL AND DOOR SCHEDULES

A005

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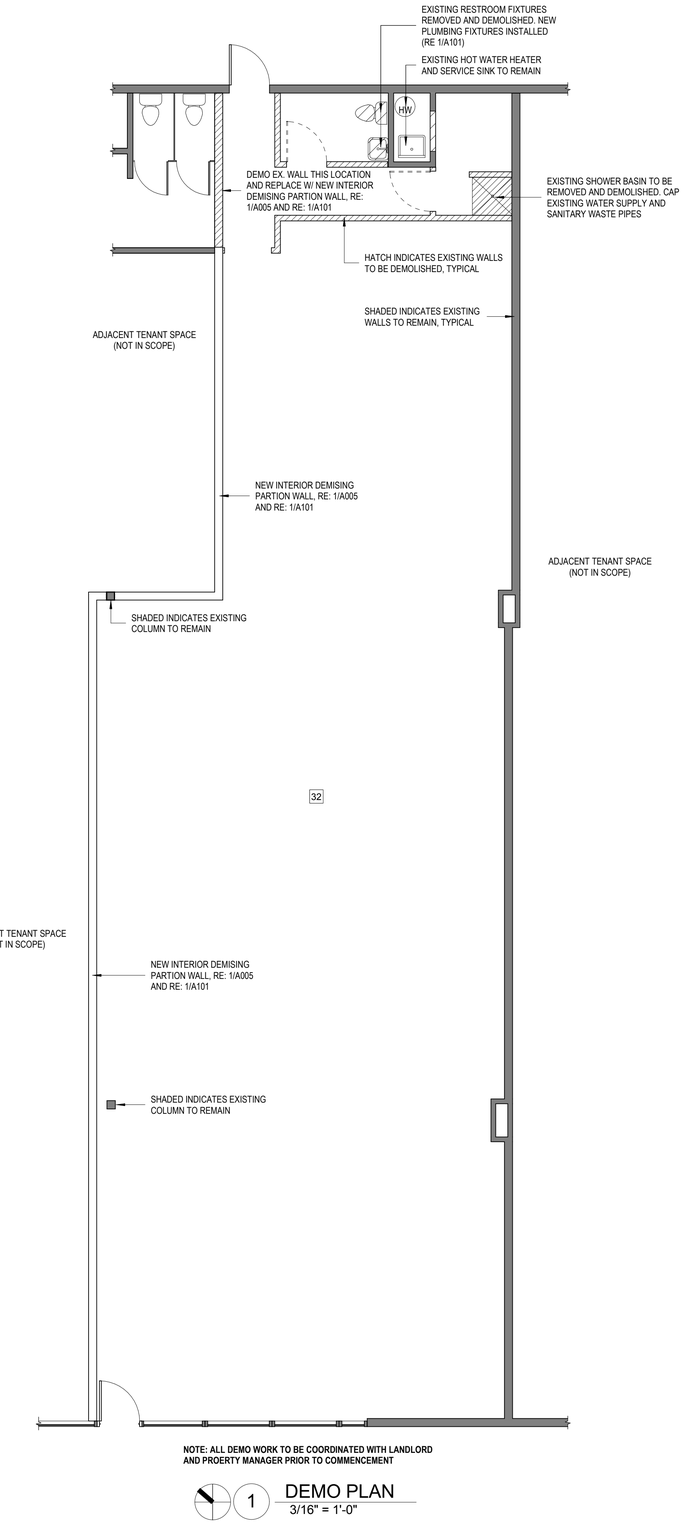
WALL TYPE LEGEND

- EXISTING WALL
- NEW WALL
- WALL TO BE DEMOLISHED
- DOOR TO BE DEMOLISHED

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
32	DEMO ALL INTERIOR FINISHES



NOTE: ALL DEMO WORK TO BE COORDINATED WITH LANDLORD AND PROERTY MANAGER PRIOR TO COMMENCEMENT

1 DEMO PLAN
3/16" = 1'-0"

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GT PROJECT NO: GT-461

DEMO PLAN

A100

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WALL TYPE LEGEND

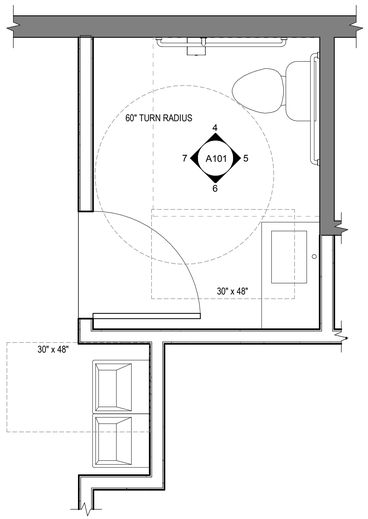
- EXISTING WALL
- NEW WALL
- WALL TO BE DEMOLISHED
- DOOR TO BE DEMOLISHED

KEYNOTE LEGEND

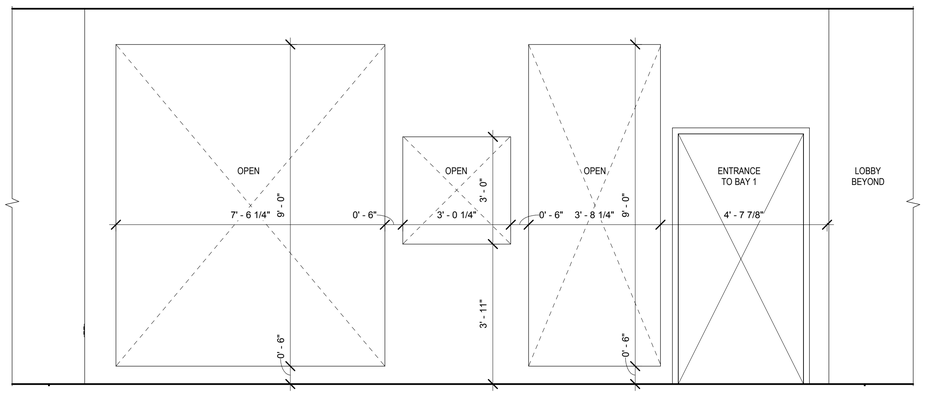
KEY VALUE	KEYNOTE TEXT
1	PROVIDE ALLOWANCE FOR 4-1/2" CONCRETE CORE DRILLED PUTTING HOLES. COORDINATE REQUIREMENTS AND EXACT LOCATIONS OF PUTTING HOLES WITH GOLFTEC. MAINTAIN INTEGRITY OF FLOOR AND RATED ASSEMBLIES
35	(2) 18" DEEP MDF SHELVES TO BE MOUNTED TO WALL @ 82" A.F.F AND 100" A.F.F.. DASHED LINE INDICATES EXTENT OF SHELVING
62	FLOAT FLOOR UNDERNEATH LOBBY PUTTING GREEN. CONSULT GOLFTEC PM FOR SPECIFICATIONS.
64	PROVIDE BACKER BOARD FOR MOUNTING OF PUTTER RACK. 6" HIGH BY 5'-0" LONG, MOUNTED AT 4" A.F.F.
67	POWER TO BE PROVIDED FOR EXTERIOR SIGNAGE;COORDINATE WITH GOLFTEC PM
73	PROVIDE FULL HEIGHT BLOCKING AT 18" OFF BACK WALL FOR FUTURE NET INSTALL; 2 x 8 WOOD BLOCKING, TURNED TO RUN BEHIND INTERIOR BAY WALL GYP.

PLUMBING SPECIFICATIONS LEGEND

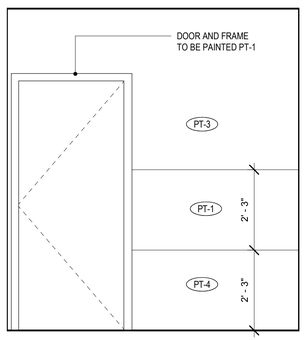
- DRINKING FOUNTAIN ELKAY EZH2O® BOTTLE FILLING STATION, VERSATILE BI-LEVEL EZ COOLER; MODEL: EZSTL8WS
- WATER CLOSET: AMERICAN STANDARD 3483.001.020 CADET FLOWISE™ RIGHT HEIGHT™ ELONGATED PRESSURE-ASSISTED TOILET 1.1 GPF / 4.2 LPF
- SINK: SCARABEO 3009 WALL MOUNTED BATHROOM SINK
- FAUCET: AMERICAN STANDARD; MOMENTS SELECTRONICR ELECTRONIC PROXIMITY LAVATORY FAUCET CAST BRASS SPOUT, BATTERY POWERED
- MIRROR: 36" ROUND RECTANGULAR WITH BEVELED EDGES, FAB GLASS AND MIRROR OR EQL.
- TOILET PAPER DISPENSER: BOBRICK B-2888 TOILET TISSUE DISPENSER, MULTI-ROLL, STAINLESS STEEL
- SOAP DISPENSER: BOBRICK B-2111 COMMERCIAL SOAP DISPENSER, STAINLESS STEEL, SURFACE MOUNT
- PAPER TOWEL DISPENSER: B-262 CLASSIC SERIES SURFACE-MOUNTED PAPER TOWEL DISPENSER



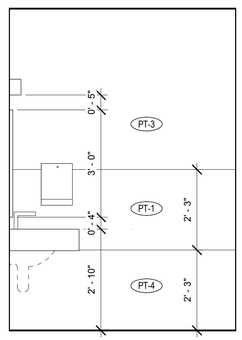
2 ENLARGED RESTROOM
1/2" = 1'-0"



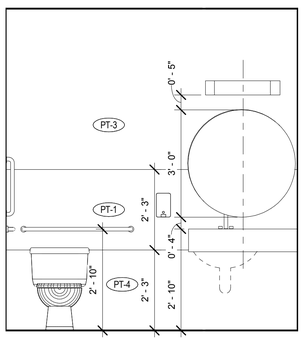
3 INTERIOR ELEVATION AT SEE- THROUGH SHAFT WALL
1/2" = 1'-0"



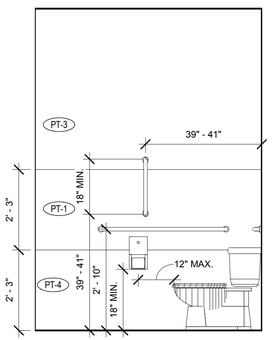
7 WEST RR ELEVATION
1/2" = 1'-0"



6 SOUTH RR ELEVATION
1/2" = 1'-0"

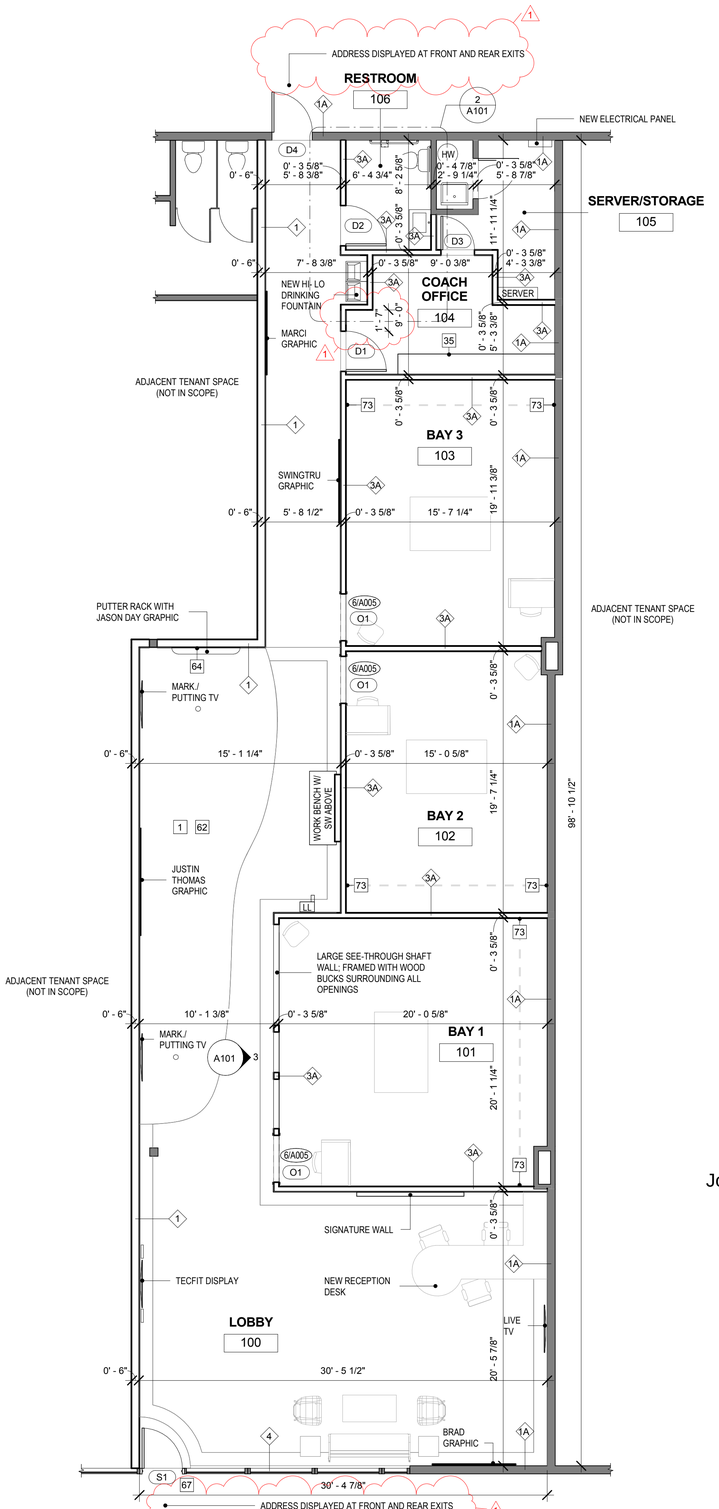


5 EAST RR ELEVATION
1/2" = 1'-0"



4 NORTH RR ELEVATION
1/2" = 1'-0"

GENERAL NOTE: PAINT ON WALLS IN BATHROOM TO BE EPOXY BASED



1 OVERALL FLOOR PLAN
3/16" = 1'-0"

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Date:	Issue:	Rev.:
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02-06-2020	RESPONSE TO BUILDING COMMENTS	1

GT PROJECT NO: GT-461

FLOOR PLAN

A101

2/6/2020 9:06:19 AM

GENERAL NOTES:

1. CENTER LIGHT FIXTURES IN ROOM OR IN CENTER OF CEILING TILE, UNO
2. ALIGN MECHANICAL DIFFUSERS WITH LIGHTING FIXTURES.
3. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
4. ALL ELECTRICAL DEVICES SHOWN ARE NEW UNLESS NOTED OTHERWISE. (IF APPLICABLE)
5. ALL POWER AND COMMUNICATION DEVICES ARE TO BE +18" AFF O.C. WITH VERTICAL ORIENTATION, UNLESS NOTED OTHERWISE
6. REVIEW ALL THERMOSTAT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
7. REFER TO ENGINEERING DRAWINGS FOR POWER TO PLENUM MOUNTED EQUIPMENT (IF APPLICABLE).
8. FIELD COORDINATE ANY EXISTING DEVICES TO REMAIN AND ANY DEVICES TO BE REMOVED NOT SHOWN HERE.
9. GC TO BE RESPONSIBLE FOR INSTALL OF OWNER PROVIDED HDMI AND VIDEO CABLING
10. **ALL OUTLET FACEPLATES TO BE WHITE (COLOR)**.
11. INSTALL ALL TELEVISIONS PER PLAN LOCATIONS.
12. VERIFY NECESSARY DATA FACE PLATES WITH GOLFTEC PM.

KEYNOTE LEGEND

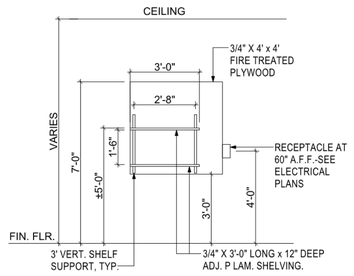
KEY VALUE	KEYNOTE TEXT
3	PROVIDE 1" CONDUIT RECESSED IN WALL CAVITY FROM J-BOX TO T.V. LOCATION FOR HDMI CABLE. J-BOX TO HAVE MUD-RING AND PULL STRING
4	PROVIDE 1 1/2" CONDUIT TO SINGLE GANG JUNCTION BOX IN WALL AT 28" A.F.F. FOR CAMERAS. PROVIDE MUD-RING AND PULL STRING. RUN CONDUIT 6" ABOVE WALL.
6	PROVIDE CEILING MOUNTED RECEPTACLE AND/OR J-BOX. COORDINATE WITH TENANT ON EXACT LOCATION.
9	LED LIGHTS IN BAYS TO BE ON TWO SEPERATE SWITCHES. NUMBER ON FIXTURE CORRELATES TO SWITCH. BOTH SWITCHES TO HAVE DIMMERS.
15	ALPHABETIC/ NUMERIC LABEL ON SWITCH INDICATES SWITCH CONTROL FOR LIGHT FIXTURES WITH CORRESPONDING LABEL U.N.O.
18	INSTALL OWNER PROVIDED HDMI CABLES
20	INSTALL ALL TELEVISIONS PER PLAN. VERIFY EXACT LOCATIONS WITH GOLFTEC PRIOR TO INSTALL.
22	ELECTRICIAN TO PROVIDE PRICING TO OWNER FOR THE EXTENSION OF THE DEMARCATION EXTENSION (DMARC) TO THE SERVER ROOM
25	PROVIDE CEILING MOUNTED RECEPTACLE. RUN 1/2" or 3/4" CONDUIT DOWN TO 5'-6" A.F.F.; NO BOX NEEDED. COORDINATE WITH TENANT ON EXACT LOCATION.
26	ALL DATA TO BE RUN TO 12-PORT PATCH PANEL IN SERVER ROOM. PATCH PANEL PROVIDED BY G.C.
36	INTERNET CABLE TO RUN BACK TO SERVER. CAMERA CABLING TO RUN FROM DESK TO CAMERAS ONLY.
38	ALL OUTLETS AND SWITCHES TO BE GANGED AS CLOSE TOGETHER AS POSSIBLE. DO NOT SCALE PLANS FOR RECEPTACLE AND SWITCH PLACEMENT.
40	GENERAL CONTRACTOR TO FURNISH AND INSTALL ALL CAT-6 LOW VOLTAGE CABLE, KEYSTONE JACK TERMINATIONS, AND INSTALL OWNER PROVIDED HDMI CABLES.
55	ALL NEW AND EXISTING OUTLETS TO BE POSITIONED/ RELOCATED TO BE CLUSTERED TOGETHER 4'-0" FROM BACK WALL
61	VERIFY NECESSARY OUTLET PLACEMENT AND QUANTITIES WITH GOLFTEC PM
65	JACKETED/ SHIELDED RJ45 JACK TO BE USED AT AT ALL DATA LOCATIONS WITHIN TRAINING BAYS. GROUNDED TO THE J BOX AT CAMERA LOCATIONS ONLY. JACK: VCE RJ45 CAT 6A SHEILDED METAL JACK; CONFIRM WITH GOLFTEC PM PRIOR TO ORDER AND INSTALL.
67	POWER TO BE PROVIDED FOR EXTERIOR SIGNAGE;COORDINATE WITH GOLFTEC PM

POWER & COMMUNICATIONS LEGEND

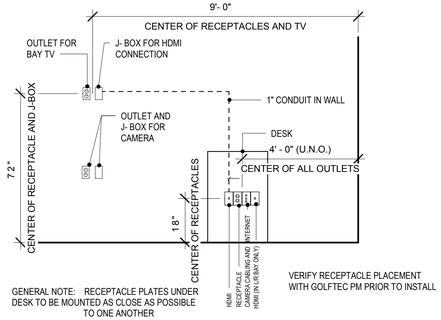
- LIGHT SWITCH- SINGLE
- LIGHT SWITCH- SINGLE WITH DIMMER
- WALL MOUNTED DUPLEX OUTLET
- WALL MOUNTED JUNCTION BOX
- WALL MOUNTED DATA BOX
- CEILING MOUNTED RECEPTACLE. TENANT TO APPROVE EXACT LOCATION PRIOR TO INSTALL
- GFCI — GROUND FAULT CIRCUIT INTERRUPTER
- THERMOSTAT- RELOCATE EXISTING

RCP LEGEND

- ARMSTONG ULTIMA OR ARMSTRONG DUNE ACOUSTICAL CEILING TILE
  SIZE: 24X48"
  5/8" THICKNESS
  EDGE: SQUARE LAY-IN 15/16
  COLOR: WHITE
- A (2) — 2x2 LED LIGHT FIXTURE
  MFR: JAMES INDUSTRIES
  MODEL #: SES-SHO6928-LX-75.
- C — 6" WALL WASHER DOWNLIGHT
  MFR: MAX LITE
  MODEL #: SES-RRA61030W-16
- D — BATHROOM VANITY LIGHT
- E — 2x2 LED LIGHT FIXTURE
  MFR: MAX LITE
  MODEL #: TBD
- COMBO EMERGENCY EGRESS LIGHT AND EXIT SIGN WITH BATTERY BACKUP
- EMERGENCY EGRESS LIGHT WITH BATTERY BACKUP



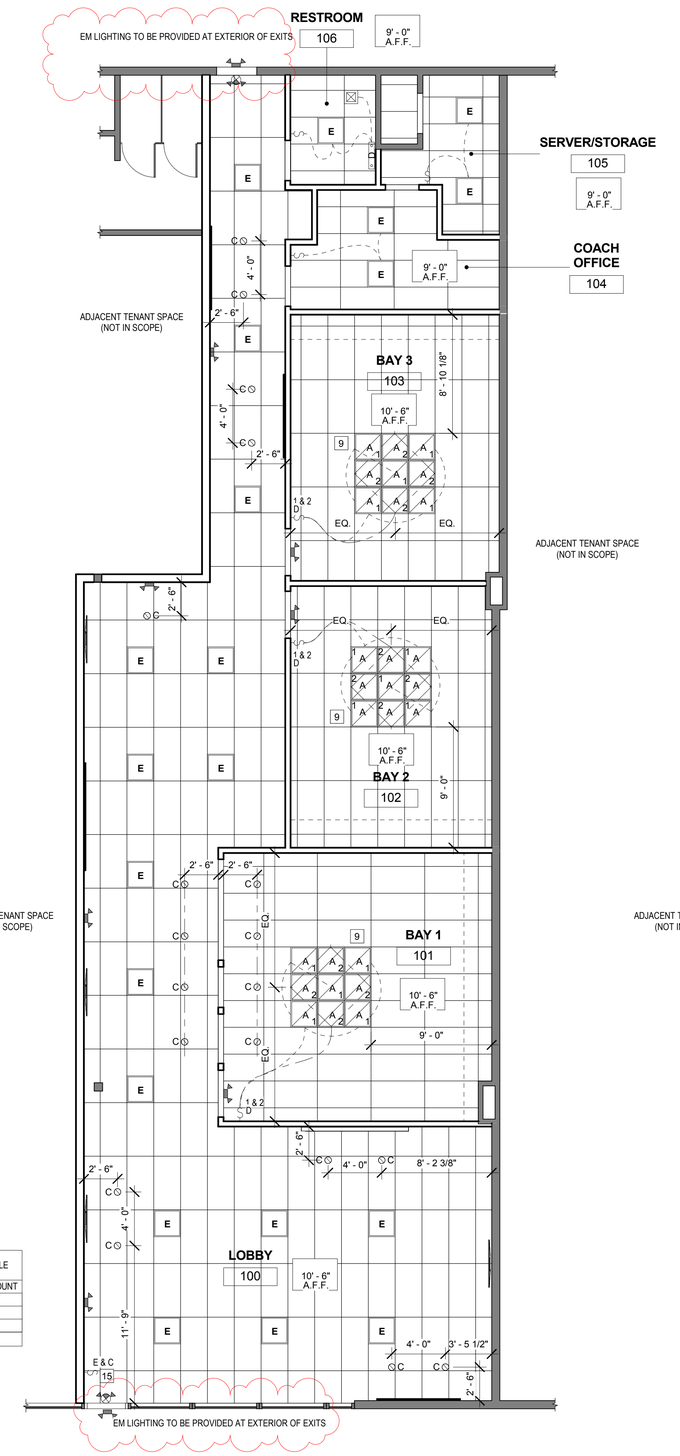
4 SERVER BOARD DIAGRAM
3" = 1'-0"



GENERAL NOTE: RECEPTACLE PLATES UNDER DESK TO BE MOUNTED AS CLOSE AS POSSIBLE TO ONE ANOTHER

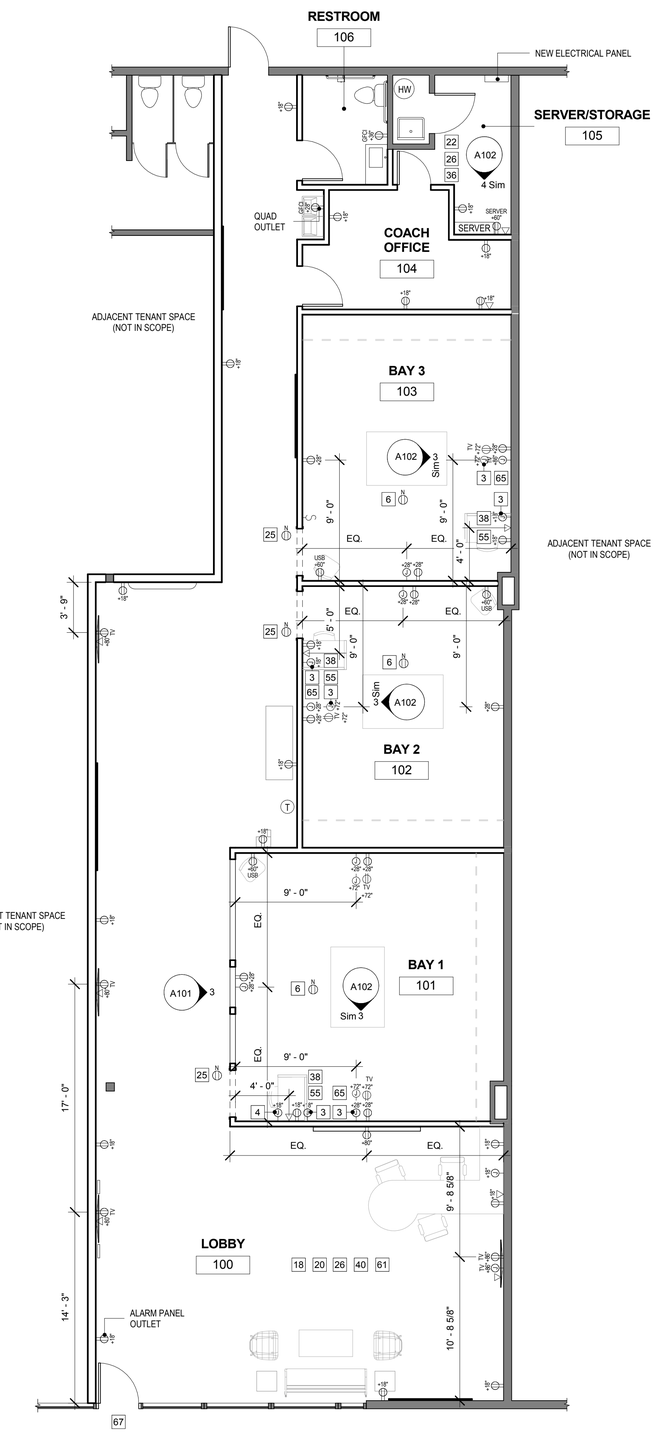
VERIFY RECEPTACLE PLACEMENT WITH GOLFTEC PM PRIOR TO INSTALL

3 BAY ELECTRICAL PLACEMENT DIAGRAM
3" = 1'-0"



LIGHTING FIXTURE SCHEDULE	
LIGHT TYPE	FIXTURE COUNT
A	27
C	19
D	1
E	21
TOTAL	68

2 REFLECTED CEILING PLAN
3/16" = 1'-0"



** GENERAL CONTRACTOR IS RESPONSIBLE FOR RUNNING ALL LOW VOLTAGE CABLING (HDMI AND CAT-6)

*** DO NOT SCALE PLANS FOR ELECTRICAL OUTLET PLACEMENT. REFERENCE 3/A102 FOR PLACEMENT WITHIN TRAINING BAYS.

1 POWER PLAN
3/16" = 1'-0"

GOLFTEC

GOLFTEC
LEE'S SUMMIT

GOLFTEC
INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

Joe Frogge
Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS Users, DC=CDLS, DC=LOC
Date: 2020.03.18 12:05:08-05'00'

Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	
02-06-2020	RESPONSE TO BUILDING COMMENTS	1

GT PROJECT NO: GT-461

RELECTED CEILING & POWER PLAN

A102

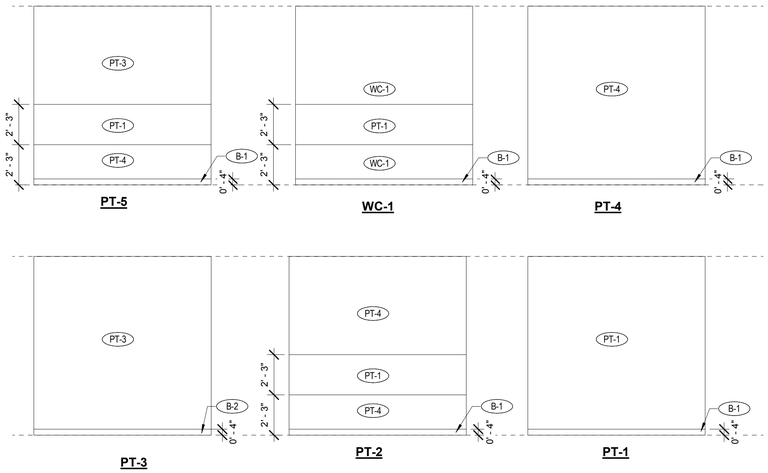
2/6/2020 9:08:21 AM

FINISH NOTES

1. REFER TO GENERAL NOTES AND SPECIFICATIONS.
2. SPLIT PAINT DOOR FRAMES AS REQUIRED WHERE PAINT COLOR TRANSITIONS OCCUR. PAINT EDGE OF HOLLOW-METAL DOORS TO MATCH OPENING SIDE IF DOOR IS IN WALL WITH DIFFERENT COLORS EACH SIDE.
3. USE SEMI-GLOSS ON ALL PAINTED DOORS AND FRAMES. MATCH COLOR OF ADJACENT WALL.
4. PARTITIONS SHALL RECEIVE ONE COAT OF PRIMER AND TWO COATS OF PAINT, TYP.
5. SKIM COAT ALL SURFACES WHERE REQUIRED FOR A SMOOTH, LEVEL SURFACE PRIOR TO APPLICATION OF NEW FINISH.
6. A SMOOTH LEVEL SURFACE IS NECESSARY PRIOR TO INSTALLATION OF NEW FLOORING.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
39	PLYWOOD FOR SERVER TO BE PAINTED SAME COLOR AS ADJACENT WALL.



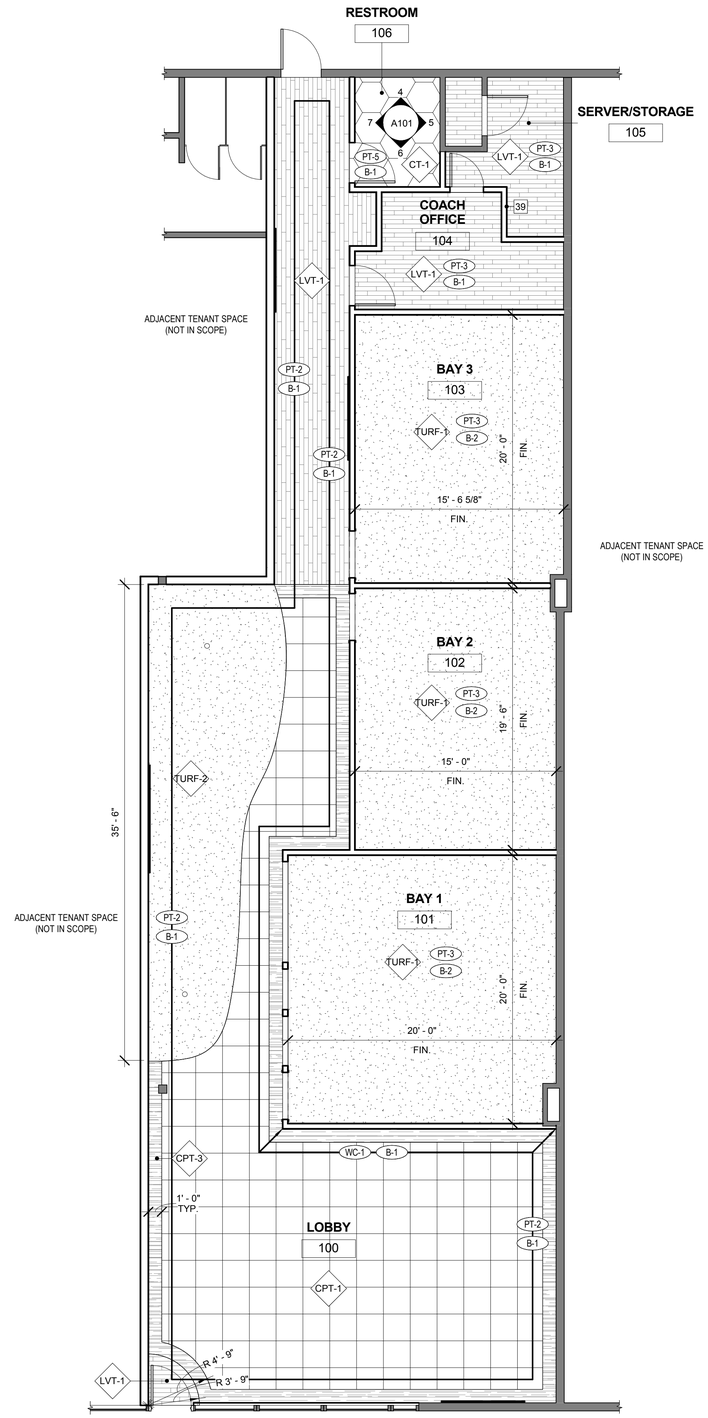
2 TYPICAL WALL PAINT ELEVATIONS (FOR REFERENCE ONLY)
1/4" = 1'-0"

FLOOR FINISH SCHEDULE

TAG	MATERIAL	SOURCE AND INSTALL	STYLE	COLOR	CONTACT	NOTES
CPT-1	CARPET TILE	OWNER PROVIDED, G.C. INSTALLED	24"x24" CARPET TILE		CAITLIN MADDEN PH# 678-638-1624	
CPT-3	BORDER CAPET TILE	OWNER PROVIDED, G.C. INSTALLED	24"x24" CARPET TILE		CAITLIN MADDEN PH# 678-638-1624	
CT-1	CERAMIC TILE	OWNER PROVIDED, G.C. INSTALLED	HEXAGON, 20"x24"		CAITLIN MADDEN PH# 678-638-1624	
LVT-1	VINYL TILE	OWNER PROVIDED, G.C. INSTALLED	6"x36" PLANK		CAITLIN MADDEN PH# 678-638-1624	
TURF-1	BAY TURF	OWNER PROVIDED, G.C. INSTALLED		BLACK		
TURF-2	PUTTING GREEN TURF	OWNER PROVIDED, G.C. INSTALLED		GREEN		

WALL FINISH SCHEDULE

WT	MANUFACTURER	STYLE	COLOR	NOTES
BAY ENTRY CASING				
6/A005	G.C. PROVIDED; G.C. INSTALLED	CASING AT BAY ENTRIES	CLASSIC OAK SATIN	SEE DETAIL 2/A101
PAINT				
PT-1	SHERWIN WILLIAMS MATCH OF KWAL PAINT	EGGSHELL	LIME TREE CL 1986A	ACCENT
PT-2	SHERWIN WILLIAMS MATCH OF KWAL PAINT	EGGSHELL	WESTCHESTER GRAY SW 2849 INSTALLED TO 27" A.F.F.; LIME TREE CL 1986A INSTALLED FROM 27" A.F.F. TO 54" A.F.F.; WESTCHESTER GRAY SW 2849 INSTALLED FROM 54" A.F.F. TO CEILING	STRIPED WALL
PT-3	SHERWIN WILLIAMS MATCH OF KWAL PAINT	EGGSHELL	OPEN SPACE CLC 1213W	BAY WALLS AND ABOVE TILE IN RESTROOM
PT-4	SHERWIN WILLIAMS MATCH OF KWAL PAINT	EGGSHELL	WESTCHESTER GRAY SW 2849	ALL SOLID DOOR AND FRAMES TO BE PAINTED PT-4
PT-5	SHERWIN WILLIAMS MATCH OF KWAL PAINT	EGGSHELL	WESTCHESTER GRAY SW 2849 INSTALLED TO 27" A.F.F.; LIME TREE CL 1986A INSTALLED FROM 27" A.F.F. TO 54" A.F.F.; OPEN SPACE CLC 1213W INSTALLED FROM 54" A.F.F. TO CEILING	
WALL BASE				
B-1	OWNER PROVIDED; G.C. INSTALLED	ROPPE 4" VINYL	SLATE 00580	
B-2	OWNER PROVIDED; G.C. INSTALLED	ROPPE 4" VINYL	BLACK	
WALL COVERING				
WC-1	OWNER PROVIDED; G.C.INSTALLED	WALL PAPER WITH PAINT ACCENT STRIPE	MARLOW RATTAN CD2-MAR-07 INSTALLED TO 27" A.F.F.; LIME TREE CL 1986A INSTALLED FROM 27" A.F.F. TO 54" A.F.F.; MARLOW RATTAN CD2-MAR-07 NSTALLED FROM 54" A.F.F. TO CEILING	WALL TO BE PROPERLY PREPARED BEFORE WALL PAPER IS INSTALLED. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTACT GOLFTEC PM WITH QUESTIONS.



NOTE: FLOORING TRANSITION STRIPS TO BE INSTALLED AT BAY ENTRIES IN BETWEEN BAY TURF AND ADJACENT FLOORING. NO OTHER TRANSITION STRIPS TO BE INSTALLED BETWEEN OTHER FLOORING MATERIAL TRANSITIONS IN ANY OTHER LOCATION.

1 FINISH PLAN
3/16" = 1'-0"

GOLFTEC

GOLFTEC
LEE'S SUMMIT

GOLFTEC
INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

Joe Frogge

Digitally signed by Joe Frogge
DN: CN=Joe Frogge, OU=Development, OU=LS, Users, DC=COLS, DC=LOC
Date: 2020.03.18 12:05:21-05'00'

Date:	Issue:	Rev.:
02-03-2020	FOR PERMIT	

GT PROJECT NO: GT-461

FINISH FLOOR PLAN & SCHEDULES

A103

1/3/2020 11:03:48 AM

GENERAL

- NOTE DESIGNATION – DEMOLITION (ALL)
- NOTE DESIGNATION – MECHANICAL NEW WORK
- NOTE DESIGNATION – ELECTRICAL NEW WORK
- NOTE DESIGNATION – PIPING/PLUMBING NEW WORK
- REVISION FROM ORIGINAL DOCUMENT
- EQUIPMENT TAG DESIGNATION (EQUIPMENT LOCATION &/OR NUMBER)
- SECTION CUT DESIGNATION (DRAWING NUMBER / SHEET NUMBER)
- REFERENCE DESIGNATION (RE: 3/M2 — DRAWING NUMBER / SHEET NUMBER)
- CONNECT TO EXISTING

DUCTWORK

SYMBOLS

- EXISTING DUCTWORK
- DUCTWORK TO BE REMOVED
- NEW DUCTWORK SIZE AS INDICATED
- 90° ELBOW DOWN
- 90° ELBOW UP
- SOUND ATTENUATOR, SIZE AS INDICATED
- FLEXIBLE CONNECTION
- LINED DUCTWORK
- FLEXIBLE DUCTWORK
- RECTANGULAR ECCENTRIC DUCT TRANSITION
- RECTANGULAR CONCENTRIC DUCT TRANSITION
- SQUARE TO ROUND DUCT TRANSITION
- SUPPLY AIR
- RETURN AIR
- TURNING VANES
- CONTROL DAMPER
- BACKDRAFT DAMPER
- FIRE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- MANUAL VOLUME DAMPER
- MOTOR OPERATED DAMPER
- DEVICE
- WALL MOUNTED DEVICE
- DUCT MOUNTED SMOKE DETECTOR
- ACCESS DOOR, SIZE AS INDICATED
- SUPPLY/EXHAUST AIR DEVICE DESIGNATION (DEVICE TYPE / INLET SIZE / FLOW)
- RETURN AIR DEVICE DESIGNATION (DEVICE TYPE / DEVICE SIZE)
- THERMOSTAT

ABBREVIATIONS

A.F.F.	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
B.O.D.	BOTTOM OF DUCT
℄	CENTER LINE
CFM	CUBIC FEET PER MINUTE
CD	CEILING DIFFUSER
DP	DIFFERENTIAL PRESSURE
RG	RETURN GRILLE

PIPING/PLUMBING

VALVES

- ANGLE VALVE
- BACKFLOW PREVENTER
- BALL VALVE
- BALANCING VALVE (2–1/2" & SMALLER)
- BALANCING VALVE (3" & LARGER)
- BUTTERFLY VALVE
- CHECK VALVE (2–1/2" & SMALLER)
- CHECK VALVE (3" & LARGER)
- CONTROL VALVE (THREE–WAY, PNEUMATIC)
- CONTROL VALVE (TWO–WAY, PNEUMATIC)
- CONTROL VALVE (TWO–WAY, MOTORIZED)
- CONTROL VALVE (THREE–WAY, MOTORIZED)
- FLEXIBLE CONNECTION (BELLOWS TYPE)
- FLEXIBLE CONNECTION (CONVOLUTE TYPE)
- FLEXIBLE CONNECTION (BRAIDED SS TYPE)
- GAS COCK
- GATE VALVE (2–1/2" & SMALLER)
- GATE VALVE (3" & LARGER)
- GLOBE VALVE (2–1/2" & SMALLER)
- GLOBE VALVE (3" & LARGER)
- PLUG VALVE
- PRESSURE REDUCING VALVE (WATER)
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- STRAINER (2–1/2" & SMALLER)
- STRAINER (3" & LARGER)
- TRIPLE DUTY VALVE
- STEAM TRAP (INVERTED BUCKET)
- STEAM TRAP (FLOAT & THERMOSTATIC)
- PRESSURE REDUCING VALVE (STEAM)

FITTINGS & ACCESSORIES

- AIR VENT (AUTOMATIC/MANUAL)
- BLIND FLANGE
- CAP
- CLEAN OUT (FLOOR/WALL)
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- ELBOW 45°
- ELBOW 90°
- ELBOW 90° UP
- ELBOW 90° DOWN
- EXISTING PIPING TO REMAIN
- FLOOR DRAIN
- HOSE BIBB
- NEW PIPING
- PIPE ANCHOR
- PIPE GUIDE/SLEEVE
- PIPING TO BE REMOVED
- PRESSURE GAUGE WITH GAUGE COCK
- PRESSURE/TEMPERATURE WELL (PETES PLUG)
- TEE
- TEE, OUTLET DOWN
- TEE, OUTLET UP
- THERMOMETER
- UNION
- VALVE IN RISER

PLUMBING

- COLD WATER PIPING
- INDUSTRIAL COLD WATER
- INDIRECT WASTE OR IRRIGATION WATER
- NON–POTABLE WATER
- HOT WATER PIPING
- HOT WATER CIRCULATING PIPING
- SOFT WATER
- STORM WATER
- TREATED WATER
- TEMPERED WATER SUPPLY
- TEMPERED WATER RETURN
- VACUUM
- VENT
- WASTE

BUILDING SYSTEMS

- COMPRESSED AIR PIPING
- CHILLED WATER SUPPLY PIPING
- CHILLED WATER RETURN PIPING
- CONDENSER WATER FROM TOWER
- CONDENSER WATER TO TOWER
- CONDENSATE DRAIN PIPING
- DRAIN
- FUEL OIL SUPPLY
- FUEL OIL RETURN
- HEAT PUMP WATER SUPPLY
- HEAT PUMP WATER RETURN
- HIGH PRESSURE STEAM
- HIGH PRESSURE CONDENSATE
- HEATING HOT WATER SUPPLY
- HEATING HOT WATER RETURN
- HIGH PRESSURE STEAM
- HIGH PRESSURE CONDENSATE
- LOW PRESSURE STEAM
- LOW PRESSURE CONDENSATE
- MEDIUM PRESSURE STEAM
- MEDIUM PRESSURE CONDENSATE
- NATURAL GAS
- PUMPED CONDENSATE
- REFRIGERANT

PROCESS

- ACETYLENE
- ACID WASTE
- ARGON
- CLEAN IN PLACE SUPPLY PIPING
- CLEAN IN PLACE RETURN PIPING
- CLEAN STEAM PIPING
- DI–IONIZED WATER
- DISTILLED WATER
- GASEOUS NITROGEN
- HELIUM
- HYDROGEN
- LIQUID NITROGEN
- NATURAL GAS
- NITROUS OXIDE
- PROCESS COMPRESSED AIR
- PROPANE

FIRE DETECTION

- CEILING MOUNTED SMOKE DETECTOR (NUMBER INDICATES CANDELA RATING). MOUNT DEVICE AT 6'–8" AFF UNLESS OTHERWISE NOTED.
- WALL–MOUNTED FIRE ALARM HORN (NUMBER INDICATED CANDELA RATING). MOUNT DEVICE AT 6'–8" AFF UNLESS OTHERWISE NOTED.
- WALL–MOUNTED FIRE ALARM HORN/STROBE (NUMBER INDICATES CANDELA RATING). MOUNT DEVICE AT 6'–8" AFF UNLESS OTHERWISE NOTED.
- CEILING MOUNTED FIRE ALARM HORN/STROBE (NUMBER INDICATES CANDELA RATING).
- NURSE CALL SINGLE DOME LED LIGHT INSTALLED ABOVE DOOR.
- NURSE CALL DOME/ZONE LIGHT WITH MULTIPLE LED LIGHTS INSTALLED AT CORRIDOR INTERSECTIONS.
- WIRELESS ACCESS POINT DEVICE
- NURSE CALL EMERGENCY CALL STATION WITH PULL CORD. INSTALL IN SINGLE GANG BOX AT WALL HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF BOX AS INDICATED ON PLAN.
- NURSE CALL EMERGENCY CALL CODE STATION (CODE BLUE). INSTALL IN SINGLE GANG BOX AT WALL HEIGHT ABOVE FINISHED FLOOR CENTERLINE OF BOX AS INDICATED ON PLAN.
- NURSE CALL MASTER STATION.
- NURSE CALL SINGLE PATIENT STATION INSTALLED IN PATIENT HEADWALL ABOVE BED.
- NURSE CALL STAFF STATION WITH VISUAL/AUDIO COMMUNICATION. INSTALL AT WALL HEIGHT ABOVE FINISHED FLOOR TO CENTERLINE OF BOX AS INDICATED ON PLAN.
- LOW VOLTAGE CONTROLLER LOCATION IN PATIENT HEADWALL SYSTEM FOR CONNECTION TO NURSE CALL SYSTEM DEVICES (HEADWALL LIGHTS, PILLOW SPEAKER, BED SIDERAIL, ETC.)

ELECTRICAL

POWER

- HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS.
- CONDUIT EXPOSED OR IN CEILING CONSTRUCTION.
- #12 THHN WIRE IN CONDUIT UNLESS NOTED OTHERWISE. SIZE PER LATEST N.E.C.
- "J" HOOK RACEWAY MADE FROM 6" ADJUSTABLE PIPE HANGERS (B–LINE MOD. B3690 OR EQUAL) SUPPORTED FROM STRUCTURE BY 5/8" ALL THREAD.
- GROUND WIRE IN CONDUIT.
- DISCONNECT SWITCH – UN–FUSED TYPE
- MOTOR STARTER
- FUSED DISCONNECT
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER.
- DUPLEX GROUNDING TYPE RECEPTACLE OUTLET – RATED 20–AMP.
- DUPLEX GROUNDING TYPE RECEPTACLE OUTLET – ON EMERGENCY POWER
- DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE OUTLET
- WP — DUPLEX GROUNDING TYPE RECEPTACLE OUTLET WITH WEATHERPROOF COVER.
- GFCI — DUPLEX GROUND FAULT INTERRUPTER CIRCUIT TYPE RECEPTACLE OUTLET
- SIMPLEX 125–V., 2–POLE, 3–WIRE RECEPTACLE OUTLET – WALL OR FLOOR MOUNTED
- XP — SAME AS ABOVE – EXPLOSION PROOF
- 120–V, SPECIAL RECEPTACLE OUTLET
- 30 — SIMPLEX 208–V., 3–POLE, 4–WIRE RECEPTACLE OUTLET
- 30XP — SAME AS ABOVE – EXPLOSION PROOF
- SIMPLEX 480–V., 3–POLE, 4–WIRE RECEPTACLE OUTLET
- XP — SAME AS ABOVE – EXPLOSION PROOF
- JUNCTION BOX
- 12"x18" QUAZITE JUNCTION BOX
- OUTLET BOX WITH BLANK COVER PLATE
- CLOCK HANGER OUTLET
- CONTACTOR
- TRANSFORMER
- MOTOR
- 120/208V PANELBOARD
- 277/480V PANELBOARD
- P — POKE THROUGH DEVICE FOR POWER
- PD — POKE THROUGH DEVICE FOR POWER AND DATA
- D — POKE THROUGH DEVICE FOR DATA ONLY
- DUPLEX GROUNDING TYPE RECEPTACLE OUTLET, 15–AMP. TWIST–LOCK NEMA L5–15R ON TOP, AND NEMA 5–15R ON BOTTOM
- 30A — SIMPLEX 208/120–V., 3–POLE, 4–WIRE, RECEPTACLE OUTLET, SURFACE MOUNT TO FLOOR IN CAST BOX
- SIMPLEX 208–V., 20–AMP., 3–POLE, 4–WIRE RECEPTACLE OUTLET
- WP — WEATHER PROOF
- GFCI — GROUND FAULT INTERRUPTER
- XP — EXPLOSION PROOF
- E — EMERGENCY STOP SWITCH
- DEVICE MOUNTED 6" ABOVE ABOVE COUNTER UNLESS NOTED OTHERWISE
- FLOOR BOX WITH OUTLET INSTALLED FLUSH WITH FLOOR

SECURITY

- CR — CARD READER
- DM — DOOR MONITOR
- ML — MAGNETIC LOCK
- MOTION SENSOR

LIGHTING

- A — 24"x48" FLUORESCENT LIGHTING FIXTURE, 'A' INDICATES DESIGNATION ON SCHEDULE
- A — SAME AS ABOVE – DUAL SWITCH CONFIGURATION
- SAME AS ABOVE – CONNECTION TO NIGHT LIGHT CIRCUIT (EMERGENCY POWER)
- A — 12"x48" FLUORESCENT LIGHTING FIXTURE, 'A' INDICATES DESIGNATION ON SCHEDULE
- SAME AS ABOVE – CONNECTION TO NIGHT LIGHT CIRCUIT (EMERGENCY POWER)
- 6"x48" TEARDROP FLUORESCENT LIGHTING FIXTURE (PROVIDED BY OTHERS)
- OR — RECESSED LIGHT FIXTURE
- GROUND MOUNTED FLOOD
- GROUND MOUNTED WALL WASHER
- CEILING MOUNTED EXIT LIGHT (EMERGENCY POWER)
- WALL MOUNTED EXIT LIGHT (EMERGENCY POWER)
- OR — WALL MOUNTED FIXTURE
- OR — POINT SOURCE SURFACE MOUNTED
- OR — ACCENT WITH DIRECTIONAL ARROW
- OR — PENDANT FIXTURE, CHAIN OR STEM MOUNTED
- RECESSED ACCENT OR WALL WASHER
- BOLLARD TYPE
- OR — POLE MOUNTED WITH ARM
- OR — POLE MOUNTED ON TOP
- OR — LUMINARE PROVIDING EMERGENCY ILLUMINATION
- EMERGENCY LIGHTS
- S — SINGLE–POLE, SINGLE–THROW WALL SWITCH
- S_2 — TWO–POLE, SINGLE–THROW WALL SWITCH
- S_3 — THREE–WAY WALL SWITCH
- S_4 — FOUR–WAY WALL SWITCH
- S_D — 1500 W, WALL MOUNTED, INCANDESCENT DIMMER SWITCH
- S_{D3} — THREE WAY, 1000 W DIMMER SWITCH (DIMMING AT ALL LOCATIONS SHOWN).
- PENDANT CABLE SUPPORT
- PC — PHOTO CELL

COMMUNICATION

- WALL MOUNTED TELEPHONE OUTLET. FOR WALL INSTALLATION, PROVIDE AND INSTALL A FLUSH DEVICE BOX, AND PULLSTRING IN WALL STUD SPACE TO ABOVE CEILING. MOUNT DEVICE BOX CENTERLINE AT ELEVATION NOTED ON THE PLANS.
- TRIPLE DATA DEVICE OUTLET. FOR WALL INSTALLATION, PROVIDE AND INSTALL A FLUSH DEVICE BOX, AND PULLSTRING IN WALL STUD SPACE TO ABOVE CEILING. MOUNT DEVICE BOX CENTERLINE AT 17" A.F.F. UNLESS OTHERWISE NOTED.
- DATA JACK
- DEVICE MOUNTED 6" ABOVE COUNTER UNLESS NOTED OTHERWISE

MISCELLANEOUS

- AIR TERMINAL
- INTERCOM
- LIGHTNING PROTECTION GROUNDING ELECTRODE
- S — LOUDSPEAKER – CEILING MOUNTED
- S — LOUDSPEAKER – WALL MOUNTED
- B — SIGNALING BELL

TEMPERATURE CONTROLS

Identification Letters

	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION		USERS CHOICE	USERS CHOICE	USERS CHOICE
C	USERS CHOICE			CONTROL	
D	USERS CHOICE	DIFFERENTIAL			
E	VOLTAGE	DIFFERENTIAL	SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)	FEEDBACK		
G	USERS CHOICE		GLASS VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN	INDICATE		
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		
M	USERS CHOICE	MOMENTARY	LIGHT		MIDDLE, INTERMEDIATE
N	USERS CHOICE		USERS CHOICE	USERS CHOICE	USERS CHOICE
O	USERS CHOICE		ORIFICE RESTRICTION		
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		
S	SPEED, FREQUENCY	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTI–VARIALBE		MULTI–FUNCTION	MULTI–FUNCTION	MULTI–FUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE DAMPER, LOUVER	
W	WEIGHT, FORCE		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE CONVERT	
Z	POSITION, DIMENSION	Z AXIS	UNCLASSIFIED	DRIVER, ACTUATOR, UNCLASSIFIED, FINAL CONTROL ELEMENT	UNCLASSIFIED

General Instrument or Function Symbols

	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR *	FIELD MOUNTED	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR *
DISCRETE INSTRUMENTS	⊖	○	⊖
SHARED DISPLAY SHARED CONTROL	⊡	⊡	⊡
COMPUTER FUNCTION	⬡	⬡	⬡
PROGRAMMABLE LOGIC CONTROL	◇	◇	◇

*NORMALLY INACCESSIBLE OR BEHIND THE PANEL DEVICES OR FUNCTIONS ARE DEPICTED BY USING THE SAME SYMBOL WITH DASHED HORIZONTAL LINES.

- INSTRUMENT SUPPLY OR CONNECTION TO PROCESS
- UNDEFINED SIGNAL
- PNEUMATIC SIGNAL
- ELECTRIC SIGNAL
- ELECTRIC SIGNAL
- PNEUMATIC BINARY SIGNAL
- ELECTRIC BINARY SIGNAL
- INTERNAL SYSTEM LINK
- MECHANICAL LINK

NOTE: THIS IS A STANDARD SYS–TEK MECHANICAL, ELECTRICAL, AND PLUMBING LEGEND. ALL SYMBOLS SHOWN MAY NOT BE RELATED TO THIS PARTICULAR PROJECT.

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LEE'S SUMMIT, MO 64063

Joe Frogge

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Date: 2020.03.18 12:05:37-05'00'

Date:	Issue:	Rev.:
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GT PROJECT NO: GT-461

GENERAL SYMBOLS

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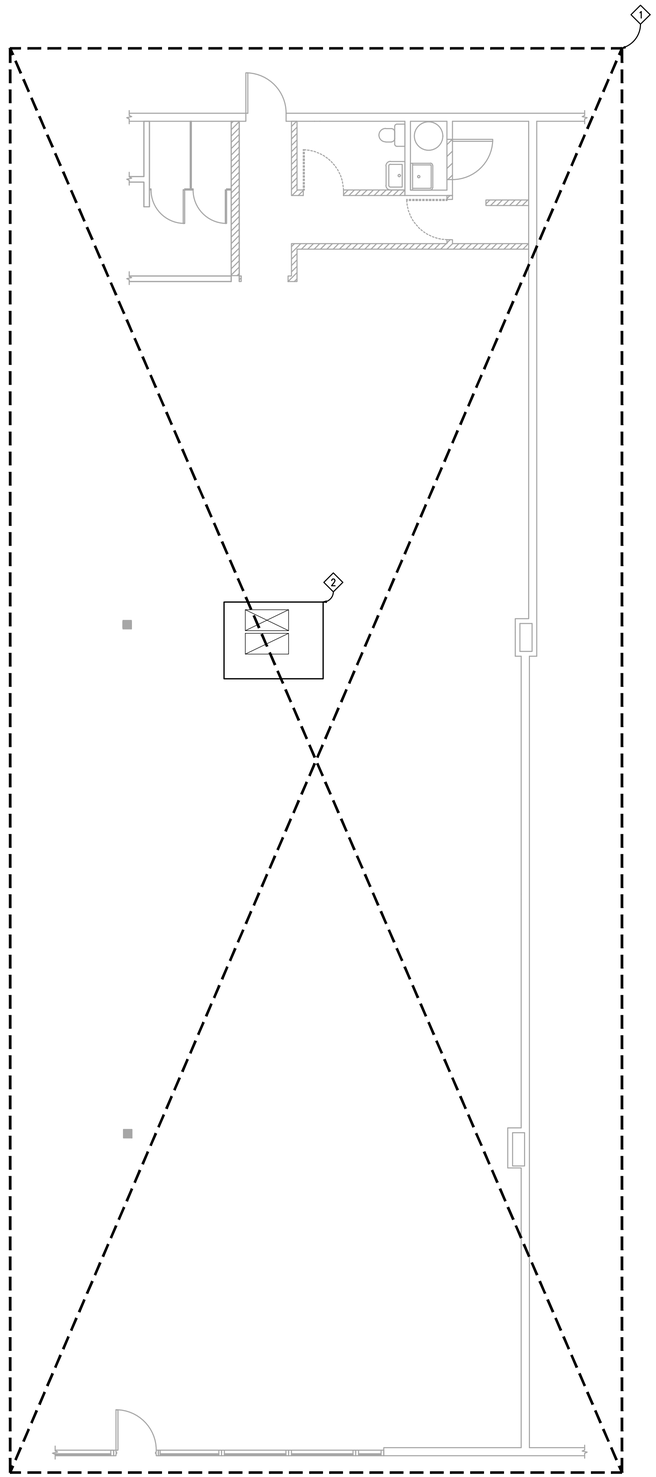

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES.
4. DUCTWORK SHALL BE ACOUSTICALLY LINED WITHIN 20 FT OF INTAKE/DISCHARGE OF A FAN.
5. EXACT LOCATION OF DUCT/ PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES' WORK.
6. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
7. EXISTING EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATION OF EXISTING DUCT/PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO DEMOLITION.
8. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCLOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
9. THE GENERAL CONTRACTOR SHALL COORDINATE THE EXTENT OF THE REQUIRED DEMOLITION OF THE EXISTING BUILDING AS REQUIRED TO FACILITATE THE CONSTRUCTION OF THE PROJECT AS SHOWN AS PART OF THIS WORK.
10. ASBESTOS ABATEMENT: CONTRACTOR SHALL NOTIFY BUILDING REPRESENTATIVE IMMEDIATELY WHEN AND IF ANY ITEMS ARE ENCOUNTERED THAT IN ANY WAY APPEAR TO BE OF A HAZARDOUS NATURE. ASBESTOS ABATEMENT IS NOT PART OF THE SCOPE OF THE DESIGN PROFESSIONALS DOCUMENTATION OR RESPONSIBILITY TO SURVEY, IDENTIFY, OR FOR CONSULTATION OF PROPER DISPOSAL.
11. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN AND RESTORE IN AN APPROVED MANNER ANY SUCH WORK WHICH BECOMES DAMAGED.
12. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT BUILDING REPRESENTATIVE TO CLARIFY ANY ITEMS NOT SHOWN ON THESE DOCUMENTS OR SHOWN NOT MATCHING FIELD CONDITIONS.

MECHANICAL DEMOLITION NOTES

1. DISCONNECT AND REMOVE ALL UNNECESSARY INTERIOR HVAC IN ENTIRETY BACK TO ROOF PENETRATION. DO NOT REMOVE ROOF PENETRATION. DISCONNECT AND REMOVE ALL DUCTWORK, AND EXHAUST FANS. COORDINATE EXACT DEMOLITION SCOPE WITH EXISTING CONDITIONS AND NEW WORK REQUIREMENTS. KEEP ANY HEATERS.
2. EXISTING RTU TO REMAIN IN PLACE FOR REUSE, COORDINATE WITH NEW WORK REQUIREMENTS.

1 FIRST FLOOR MECHANICAL PLAN - DEMOLITION

SCALE: 3/16"=1'-0"

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MECHANICAL DEMOLITION

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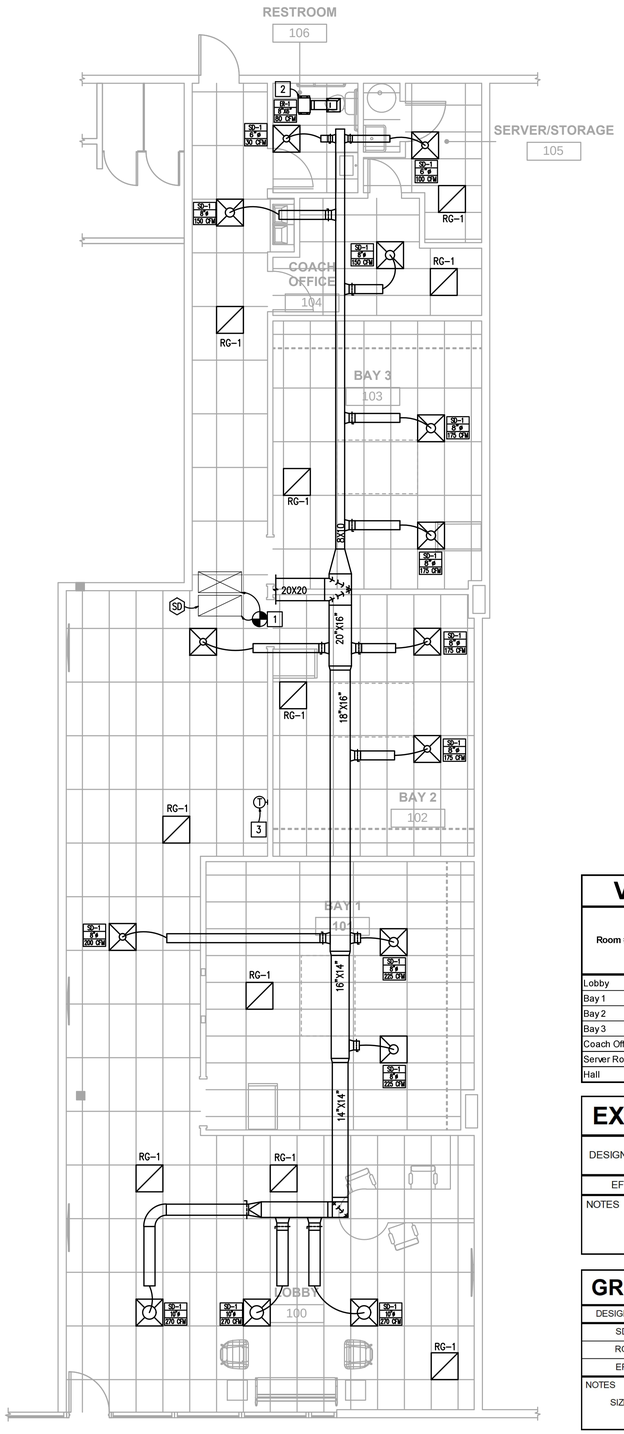

1 FIRST FLOOR MECHANICAL PLAN - NEW WORK
SCALE: 3/16"=1'-0"

NORTH

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES.
4. DUCTWORK SHALL BE ACOUSTICALLY LINED WITHIN 20 FT OF INTAKE/DISCHARGE OF A FAN.
5. INSTALL VOLUME DAMPERS IN ALL BRANCH DUCTS SERVING A SINGLE GRILLE OR DIFFUSER.
6. INSTALL FLEXIBLE DUCT CONNECTIONS AT THE INLET AND DISCHARGE OF ALL FANS.
7. MAXIMUM LENGTH OF FLEXIBLE DUCT TO AIR TERMINAL DEVICES SHALL NOT EXCEED 5' – 0" IN LENGTH WITH A MAXIMUM OF ONE 90° TURN AND SHALL BE INSULATED. ELBOWS SHALL BE MIN. 1.5 RADIUS. CONNECTIONS TO TERMINAL DEVICES SHALL BE BANDED AND TAPED.
8. DUCT/PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF DUCT/ PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES' WORK.
9. UNLESS OTHERWISE NOTED, ALL DUCT / PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON OR ALUMINUM DUCT COLLAR AT EACH PENETRATION OF A FINISHED SURFACE.
10. DUCT SIZES SHOWN ARE NET INSIDE CLEAR DIMENSIONS.
11. ANY ADDITIONAL LOW VOLTAGE CONTROL WIRING THAT IS REQUIRED SHALL BE PROVIDED BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE RUN IN CONDUIT IF REQUIRED BY LOCAL CODES. FIELD VERIFY PRIOR TO BID. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
12. PROVIDE VIBRATION ISOLATION AT EACH CONNECTION TO A MOTORIZED PIECE OF EQUIPMENT BY THE HVAC CONTRACTOR.
13. THE HVAC CONTRACTOR SHALL CLOSELY COORDINATE AIR DEVICE AND DUCTWORK LOCATIONS WITH REFLECTED CEILING AND STRUCTURAL PLANS.
14. MATERIALS IN THE PLENUM SHALL BE MADE OF NONCOMBUSTIBLE MATERIALS OR MATERIALS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. SEE IMC FOR EXCEPTIONS.

MECHANICAL NEW WORK NOTES

1. EXTEND NEW SUPPLY AND RETURN DUCTWORK TO FULL SIZE DUCT DROPS FROM EXISTING RTU IN THE MOST EFFICIENT MANNER. PROVIDE TRANSITIONS AS REQUIRED FOR TIE-IN, COORDINATE EXACT TIE-IN LOCATION WITH EXISTING FIELD CONDITIONS. BALANCE EXISTING ROOFTOP UNIT TO SUPPLY AIR, OUTSIDE AIR, AND RETURN AIR CFM AS INDICATED ON PLANS. INSTALL NEW DUCT SMOKE-DETECTOR (PROVIDED AND WIRED BY ELECTRICAL CONTRACTOR) IN RETURN DUCT DROP.
2. PROVIDE NEW CEILING EXHAUST FAN EF-1, GREENHECK SP-A110 OR EQUAL, 80 CFM. COORDINATE WITH ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL INTERLOCK EXHAUST FAN WITH TOILET ROOM LIGHT. EXHAUST FAN TO EVACUATE INTO PLENUM.
3. RELOCATE EXISTING THERMOSTAT TO LOCATION SHOWN. INSTALL AT 4'-0" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND SET POINTS WITH OWNER.

VENTILATION CALCULATIONS ASHRAE 62.1 COMPLIANCE

Room #	Zone Type	Zone Area	R_p	Occupant Density per 1000 ft²	P_z	R_a	A_z	V_{bz}	V_{oz}	E_z	TOTAL REQUIRED OA CFM	TOTAL DESIGN OA CFM
Lobby	Main Entry Lobbies	1,133	5	10	11.33	0.06	1,133	124.63	124.63	1	414	450
Bay 1	Health club/weight rooms	397	20	10	3.97	0.06	397	103.22	103.22	1		
Bay 2	Health club/weight rooms	292	20	10	2.92	0.06	292	75.92	75.92	1		
Bay 3	Health club/weight rooms	310	20	10	3.1	0.06	310	80.6	80.6	1		
Coach Office	Office Space	110	5	5	0.55	0.06	110	9.35	9.35	1		
Server Room	Computer (Not Printing)	88	5	4	0.352	0.06	88	7.04	7.04	1		
Hall	Corridors	220	0	0	0	0.06	220	13.2	13.2	1		

EXHAUST FAN SCHEDULE

DESIGNATION	MANUFACTURER	MODEL No.	CFM	ESTIMATED EXT. S.P. (IN. W.C.)	MOTOR DATA			NOTES
					VOLTS	PHASE	DRIVE	
EF-1	GREENHECK	SP-A110	80	0.25	115	1	DIRECT	

NOTES

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

DESIGNATION	MANUFACTURER	MODEL No.	NECK SIZE	FACE SIZE	NOTES
SD-1	Titus	TMS	SEE PLANS	24"X24"	1
RG-1	Titus	45F	N/A	22"X22"	1
ER-1	Titus	25RL	SEE PLANS	12"X12"	1

NOTES
SIZE AND CFM ARE SHOWN ON PLANS

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GT PROJECT NO: GT-461

MECHANICAL NEW WORK

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SECTION 23 0000 HVAC

THE REQUIREMENTS OF THE "GENERAL CONDITIONS" AND "DIVISION 1" SECTIONS OF THE SPECIFICATIONS SHALL APPLY TO THIS SECTION OF THE SPECIFICATIONS.

PART 1 – GENERAL

1.01 SUMMARY

A. THE CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL HVAC SYSTEM AS SHOWN ON THE DRAWINGS INCLUDING EQUIPMENT, MATERIAL, LABOR, DUCTWORK, PIPING, DIFFUSERS, GRILLES AND REQUIRED ELECTRICAL.

B. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE LOCAL BUILDING, MECHANICAL, AND ENERGY CODES ASHRAE, SMACNA, AND ALL OTHER APPLICABLE STATE AND FEDERAL CODES.

C. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE EXECUTION OF THIS WORK.

D. ALL EQUIPMENT AND MATERIALS SHALL BE NEW AND SHALL DISPLAY A UL LABEL WHERE APPLICABLE.

E. ALL INTERIOR INSULATION MATERIALS, JACKETS, COVERINGS, SEALS AND MASTICS SHALL HAVE A FLAME SPREAD INDEX OF 25 OR LESS AND SMOKE DEVELOPED INDEX OF 50 OR LESS PER ASTM E84 (NFPA 255).

1.02 SUBMITTALS

A. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL DATA FOR EACH MODEL INDICATED, INCLUDING RATED CAPACITIES, DIMENSIONS, REQUIRED CLEARANCES, CHARACTERISTICS, FURNISHED SPECIALTIES AND ACCESSORIES.

I. OPERATION AND MAINTENANCE DATA FOR EXHAUST FANS.

1.03 QUALITY ASSURANCE

A. PRODUCT OPTIONS: DRAWINGS INDICATE SIZE, PROFILES, AND DIMENSIONAL REQUIREMENTS OF ROOFTOP AIR CONDITIONERS AND ARE BASED ON THE SPECIFIC SYSTEM INDICATED.

B. ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES: LISTED AND LABELED AS DEFINED IN NFPA 70, ARTICLE 100, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED USE.

PART 2 – PRODUCTS

2.01 DUCTWORK AND SPECIALTIES

A. ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL OF GAUGES AND JOINT TYPES AS SPECIFIED IN THE SMACNA MANUAL FOR THE APPLICABLE SIZES. VOLUME DAMPERS SHALL BE MANUAL LOCKING, BLADE–TYPE. TWO GAUGES HEAVIER THAN DUCT. DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS FOR TWO–INCH STATIC PRESSURE. ALL DUCTWORK SHALL BE SEALED WITH MASTIC. ACCESS DOORS SHALL BE PROVIDED IN DUCTWORK AT FIRE DAMPERS OR OTHER CONTROL DEVICES AS REQUIRED FOR MAINTENANCE. DOUBLE–THICKNESS TURNING VANES SHALL BE PROVIDED AT ALL RECTANGULAR ELBOWS. FLEXIBLE CONNECTIONS TO AIR HANDLING UNITS SHALL BE PROVIDED.

2.02 INSULATION

A. SUPPLY AND RETURN DUCTWORK SHALL BE ACOUSTICALLY LINED FOR THE FIRST 20 FEET OF THE ROOF TOP UNIT. INSULATION SHALL BE 1" THICK WITH A MINIMUM R VALUE OF R–3.5. DUCT DIMENSIONS INDICATED ARE NET INSIDE DIMENSIONS REQUIRED FOR AIR FLOW. INCREASE DUCT SIZE TO ALLOW FOR INSULATION THICKNESS.

B. ALL DUCTWORK NOT LINED SHALL BE WRAPPED WITH INSULATION WITH A MINIMUM R VALUE OF R–3.5.

2.03 EXHAUST FAN

A. EXHAUST FAN TO BE SUPPLIED AS INDICATED ON THE DRAWINGS.

B. FAN SPEED CONTROLLER INSTALLATION LOCATION SHALL BE COORDINATED WITH ELECTRICAL CONTRACTOR AND BE INSTALLED AT OR BY THE FAN FOR ADJUSTMENT BY BALANCE CONTRACTOR.

PART 3 – EXECUTION

3.01 INSTALLATION

A. INSTALL UNITS LEVEL AND PLUMB, MAINTAINING MANUFACTURER'S RECOMMENDED CLEARANCES. INSTALL ACCORDING TO ARI GUIDELINE B.

B. ALL DUCTWORK AND EXHAUST FANS SHALL BE SUPPORTED PROPERLY FROM THE TOP CHORD OF ROOF JOISTS. NO DUCTWORK OR DEVICES SHALL BE ATTACHED DIRECTLY TO ROOF DECK.

C. THE HVAC SYSTEM SHALL OPERATE WITHOUT OBJECTIONABLE VIBRATION, PULSATION, OR RATTLE. MOTORS SHALL BE MOUNTED ON RUBBER VIBRATION ISOLATORS OR THE COMPLETE UNIT SHALL BE ISOLATED FROM THE BUILDING WITH ISOLATION PADS. ALL DAMPERS, GRILLES, AND ACCESSORIES SHALL HAVE NO MOVEMENT UNDER OPERATING CONDITIONS AND SHALL OPERATE WITHOUT NOISE ..

3.02 EQUIPMENT IDENTIFICATION

A. FOR ALL EQUIPMENT. CONTRACTOR SHALL PROVIDE AND INSTALL BLACK BAKELITE NAMEPLATE WITH WHITE LETTERING SECURED PERMANENTLY TO THE EQUIPMENT ADJACENT TO MANUFACTURER'S EQUIPMENT TAGS. SIZE OF LETTERING SHALL BE MINIMUM 2" IN HEIGHT. SAMPLE AS FOLLOWS: EF–1.

3.03 CONNECTIONS

A. INSTALL PIPING EQUIPMENT TO ALLOW SERVICE AND MAINTENANCE

B. INSTALL DUCTS TO TERMINATION IN ROOF CURB.

C. ELECTRICAL SYSTEM CONNECTIONS: COMPLY WITH APPLICABLE REQUIREMENTS IN DIVISION 16 SECTIONS FOR POWER WIRING, SWITCHES, AND MOTOR CONTROLS.

D. GROUND EQUIPMENT ACCORDING TO DIVISION 16 SECTIONS "GROUNDING AND BONDING".

E. TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED TORQUE–TIGHTENING VALUES. IF MANUFACTURER'S TORQUE VALUES ARE NOT INDICATED, USE THOSE SPECIFIED IN UL 486A AND UL 486B.

3.05 TESTING ADJUSTING AND BALANCING

A TEST, ADJUST, AND BALANCE THE SUPPLY, RETURN, AND EXHAUST AIR SYSTEMS. MAKE ADJUSTMENTS AND RE–TEST SYSTEM TO ACHIEVE THE REQUIRED FLOW WITHIN 10% OF SPECIFIED AIRFLOW.

B. WHEN DEFICIENCIES ARE IDENTIFIED, RE–TEST AND ADJUST FLOWS AFTER CORRECTIVE MEASURES ARE TAKEN.

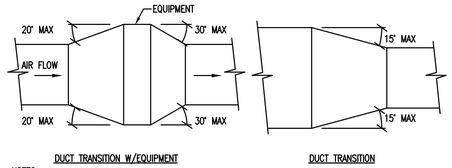
C. PERMANENTLY IDENTIFY POSITION OF SPEED CONTROLLER AND DAMPERS FOR FUTURE REFERENCE.

D. CERTIFIED REPORTS: SUBMIT TESTING, ADJUSTING, AND BALANCING REPORTS BEARING THE SEAL AND SIGNATURE OF THE TEST AND BALANCE ENGINEER. THE REPORTS SHALL BE CERTIFIED PROOF THAT THE SYSTEMS HAVE BEEN TESTED, ADJUSTED, AND BALANCED IN ACCORDANCE WITH THE REFERENCED STANDARDS; ARE AN ACCURATE REPRESENTATION OF HOW THE SYSTEMS HAVE BEEN INSTALLED; ARE A TRUE REPRESENTATION OF HOW THE SYSTEMS ARE OPERATING AT THE COMPLETION OF THE TESTING, ADJUSTING, AND BALANCING PROCEDURES; AND ARE AN ACCURATE RECORD OF ALL FINAL QUANTITIES MEASURED, TO ESTABLISH NORMAL OPERATING VALUES OF THE SYSTEMS.

E. REPORT FORMS SHALL BE THOSE STANDARD FORMS PREPARED BY THE STANDARD FOR EACH RESPECTIVE ITEM AND SYSTEM TO BE TESTED, ADJUSTED, AND BALANCED. BIND REPORT FORMS COMPLETE WITH SCHEMATIC SYSTEMS DIAGRAMS AND OTHER DATA IN REINFORCED, VINYL AND THREE –RING BINDERS. PROVIDE BINDING EDGE LABELS WITH THE PROJECT IDENTIFICATION AND A TITLE DESCRIPTIVE OF THE CONTENTS.

F. NEBB: "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, AND BALANCING OF ENVIRONMENTAL SYSTEMS.

END OF SECTION 23 0000

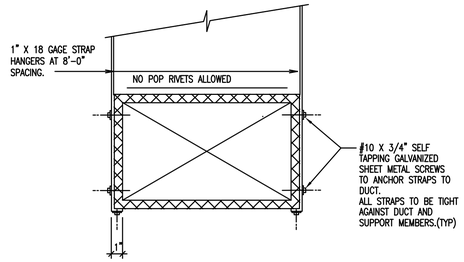


NOTES:

1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

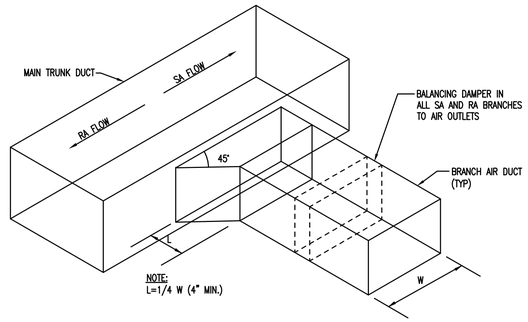
1 TYPICAL DUCT TRANSITION DETAIL

SCALE: N.T.S.



2 TYPICAL DUCT STRAP HANGER DETIAL

SCALE: N.T.S.



3 SA/RA DUCT CONNECTION DETIAL

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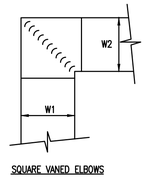

SQUARE VANED ELBOWS

NOTES:

1. ALL VANED ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
2. WHEN W1 DOES NOT EQUAL W2 VANE SHALL BE SINGLE VANE TYPE REGARDLESS OF W DIMENSION.
3. ALL SINGLE VANES SHALL HAVE A 2 INCH RADIUS, 1 1/2 INCH MAXIMUM SPACE BETWEEN VANES AND A 3/4 INCH TRAILING EDGE.
4. WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20 INCHES VANES SHALL BE DOUBLE VANE TYPE.

4 TYPICAL SQUARE VANED DUCT DETAIL

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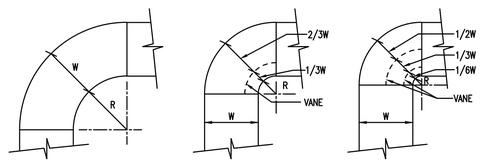

R SHALL EQUAL OR BE GREATER THAN W.

STANDARD RADIUS ELBOW

R SHALL EQUAL OR BE GREATER THAN 1/3W.

SHORT RADIUS ELBOW W/ONE VANE

R SHALL EQUAL OR BE GREATER THAN 1/6W.

SHORT RADIUS ELBOW W/TWO VANES

NOTES:

1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED,SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

5 TYPICAL DUCT RADIUS DETAIL

SCALE: N.T.S.

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MECHANICAL DETAILS

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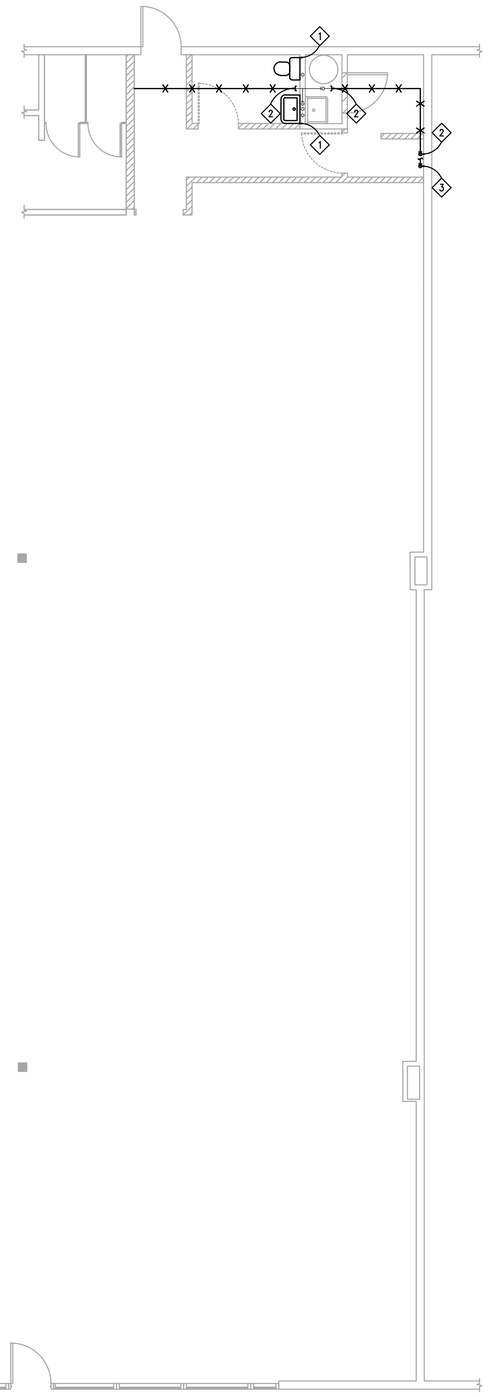

GENERAL NOTES

1. CONTRACTOR TO VERIFY EXISTING CONDITIONS FOR HOT AND COLD WATER PIPING.

PLUMBING DEMOLITION NOTES

1. DEMO EXISTING SINK AND TOILET CAP PIPING FOR FUTURE FIXTURES' USE.
2. DEMO AND CAP EXISTING HOT WATER LINES EXTENDING TO SHOWER AND ADJACENT TENANT SPACE. THE EXISTING HOT WATER HEATER IS TO REMAIN IN PLACE.
3. DEMO EXISTING COLD WATER LINE TO SHOWER CAP AT COLD WATER MAIN.

1 FIRST FLOOR PLUMBING PLAN - DEMOLITION

SCALE: 3/16"=1'-0"

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PLUMBING DEMOLITION

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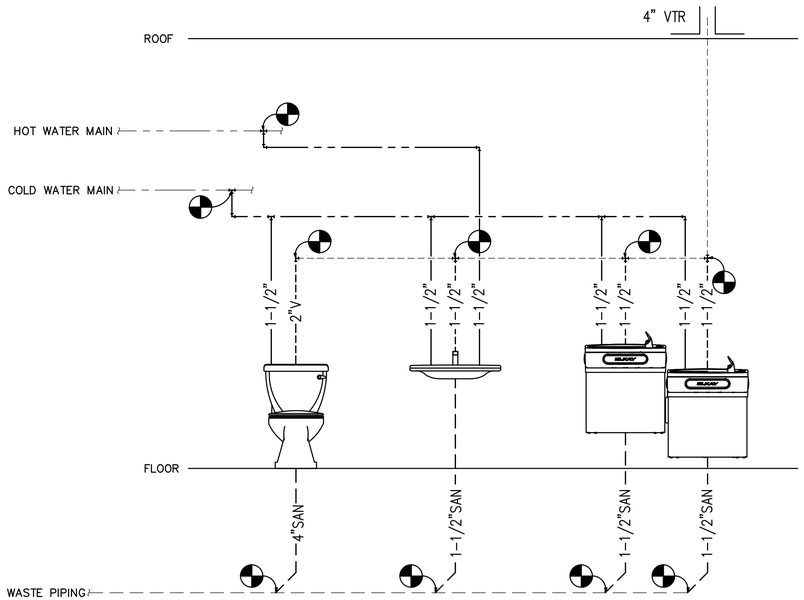
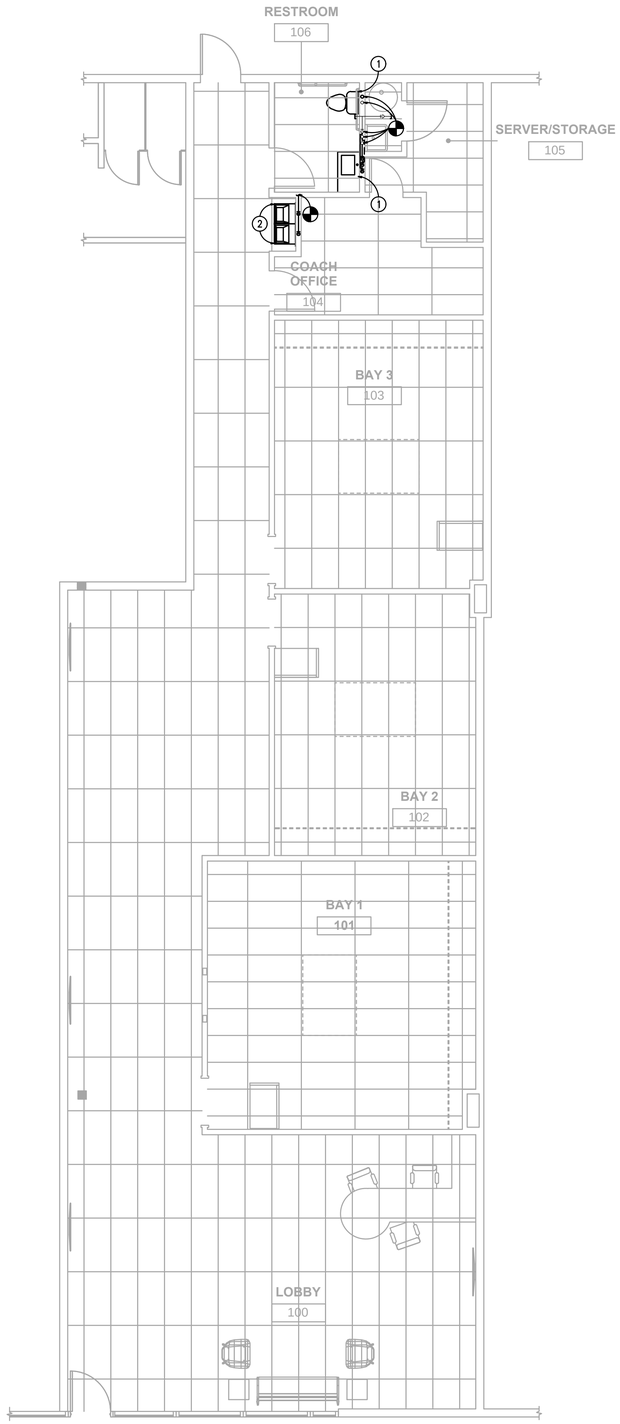


2 PLUMBING RISER NEW WORK

SCALE: N.T.S.

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	MODEL NUMBER	CONN. PIPE SIZE (IN.)				REMARKS
					CW	HW	WASTE	VENT	
EWC	WATER COOLER	ELKAY	–	EZSTL8WSLK	3/8"	–	1 1/2"	1 1/2"	REFRIGERATED 8-GPH TWO-STATION HI/LOW, ADA-COMPLIANT, LIGHT GRAY GRANITE COLOR, 115V, 370W
LAV	LAVATORY	AMERICAN STANDARD	–	2506.155	3/8"	3/8"	1-1/2"	1 1/2"	WHITE CERAMIC WITH INTEGRATED COUNTER, SINGLE HOLE, WALL HUNG, AMERICAN STANDARD 2506.155 FAUCET, 0.50PM AERATOR, DC BATTERY POWERED, CAST BRASS SPOUT, <.25% LEAD, 4" HOLES, WITH CHROME-PLATED CAST BRASS GRID DRAIN, ASSE 1070 MIXING VALVE SET TO 110°F
WC	WATER CLOSET	AMERICAN STANDARD	–	3483.001.020	3/8"	–	4"	2"	ELONGATED, WHITE TWO-PIECE, 1.1 GPF FLUSH TANK PRESSURE-ASSIST, ADA COMPLIANT, 1955SSCTP BEMIS OPEN-FRONT SEAT, CONTRACTOR TO PROVIDE WC TANK AMERICAN STANDARD 4142.100.020



1 FIRST FLOOR PLUMBING PLAN - NEW WORK

SCALE: 3/16"=1'-0"

NORTH

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES.
4. PIPING LAYOUT IS SCHEMATIC. EXACT LOCATION OF PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES' WORK.
5. UNLESS OTHERWISE NOTED, ALL PIPING SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON OR ALUMINUM DUCT COLLAR AT EACH PENETRATION OF A FINISHED SURFACE.
6. CONTRACTOR TO VERIFY EXISTING CONDITIONS FOR ALL PIPING.
7. COORDINATE ALL PLUMBING FIXTURES WITH OWNER.
8. ALL PIPING IS TO BE ROUTED IN THE MOST EFFICIENT MANNER POSSIBLE.
9. MATERIALS IN THE PLENUM SHALL BE MADE OF NONCOMBUSTIBLE MATERIALS OR MATERIALS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. SEE IMC FOR EXCEPTIONS.

PLUMBING NEW WORK NOTES

1. PROVIDE AND INSTALL NEW FAUCET AND TOILET. TOILET FLUSH CONTROL SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. CONNECT NEW TOILET TO EXISTING COLD WATER AND WASTE LINES AT LOCATION OF PREVIOUS TOILET. CONNECT NEW FAUCET TO EXISTING COLD WATER, HOT WATER, AND WASTE LINES AT LOCATION OF PREVIOUS SINK. ROUTE NEW VENTS LINES TO EXISTING VENT MAIN.
2. PROVIDE AND INSTALL NEW WATER FOUNTAIN. ROUTE NEW COLD WATER PIPING TO EXISTING COLD WATER MAIN AND NEW VENT LINES TO EXISTING VENT MAIN. CONTRACTOR TO VERIFY ROUTE AND LOCATION OF NEAREST COLD WATER PIPING.

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GT PROJECT NO: GT-461

PLUMBING NEW WORK

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SECTION 22 0000– PLUMBING
THE REQUIREMENTS OF THE "GENERAL CONDITIONS" AND "DIVISION 1" SECTIONS OF THE SPECIFICATIONS SHALL APPLY TO THIS SECTION OF THE SPECIFICATIONS.

PART I – GENERAL

1.01 SUMMARY

A. THIS SECTION INCLUDES ALL PLUMBING INCLUDING DOMESTIC WATER PIPING, SANITARY WASTE AND VENT PIPING, PLUMBING FIXTURES AND SPECIALTIES INSIDE THE BUILDING.
B. PLUMBING FIXTURES SHALL BE INSTALLED AS REQUIRED TO COMPLY WITH ALL FEDERAL, STATE, LOCAL AND ALL OTHER APPLICABLE PLUMBING CODES.
C. FIXTURES SHALL BE PROVIDED BY CONTRACTOR AS SCHEDULED ON THE DRAWINGS. MANUFACTURER'S CATALOG DESIGNATIONS FOR FIXTURES ARE SPECIFIED ON THE DRAWINGS TO ESTABLISH STANDARDS FOR QUALITY, PERFORMANCE AND MATERIALS. ALL FIXTURES SHALL BE STANDARD WHITE IN COLOR.
D. FIXTURES SHALL BE MOUNTED AT STANDARD HEIGHTS EXCEPT FOR HANDICAPPED FIXTURES WHICH SHALL BE MOUNTED PER APPLICABLE ADA HANDICAPPED ACCESSIBILITY AND BARRIER FREE CODES.

1.02 PERFORMANCE REQUIREMENTS

A. PROVIDE COMPONENTS AND INSTALLATION CAPABLE OF PRODUCING PIPING SYSTEMS WITH THE FOLLOWING MINIMUM WORKING–PRESSURE RATINGS, UNLESS OTHERMSE INDICATED:
   1. DOMESTIC WATER DISTRIBUTION PIPING: 125 PSIG.
   2. SOIL, WASTE AND VENT PIPING: 10–FOOT HEAD OF WATER.

1.03 SUBMITTALS

A. PRODUCT DATA: FOR PIPE, TUBE, FITTINGS AND COUPLINGS.
B. PRODUCT DATA: INCLUDE SELECTED FIXTURE AND TRIM, FITTINGS, ACCESSORIES, APPLIANCES, APPURTENANCES, EQUIPMENT AND SUPPORTS. INDICATE MATERIALS, FINISHES, DIMENSIONS, CONSTRUCTION DETAILS AND FLOW–CONTROL RATES FOR EACH TYPE OF FIXTURE INDICATED.
C. WATER SAMPLES: SPECIFIED IN "CLEANING" ARTICLE IN PART 3.
D. FIELD TEST REPORTS: INDICATE AND INTERPRET TEST RESULTS FOR COMPLIANCE WITH PERFORMANCE REQUIREMENTS.

1.04 QUALITY ASSURANCE

A. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.

1.05 COORDINATION

A. COORDINATE ROUGHING–IN AND FINAL PLUMBING FIXTURE LOCATIONS. VERIFY THAT FIXTURES CAN BE INSTALLED TO COMPLY WITH ORIGINAL DESIGN AND REFERENCED STANDARDS.

PART 2 – PRODUCTS

2.01 PLUMBING SPECIALTIES

B. DOMESTIC WATER SHUT –OFF VALVES SHALL BE BRONZE, FULL–PORT VALVES WITH TEFLON SEATS AND AN INSULATED HANDLE.
C. NICKEL –BRASS OR CHROME PLATED ESCUTCHEONS SHALL BE PROVIDED ON ALL EXPOSED PIPES WHERE PIPES PASS THROUGH A WALL OR CEILING IN A FINISHED ROOM.
D. All WASTE AND VENT PIPING SHALL CONFORM TO IMC 2018 AND IPC 2018.
E. DOMESTIC WATER PIPING ABOVE GRADE SHALL BE TYPE 'I ' COPPER WITH FITTINGS JOINED BY A NON–LEAD BEARING SOLDER.
F. ALL WATER PIPING ABOVE GRADE SHALL BE INSULATED WITH PREFORMED 1–INCH FIBERGLASS INSULATION WITH VAPOR BARRIER.

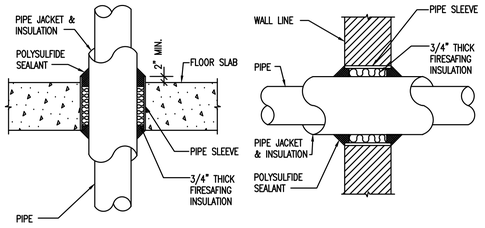
PART 3 – EXECUTION

3.0 I GENERAL

A. ALL INTERIOR PIPING SHALL BE SUPPORTED PROPERLY FROM JOISTS OR OTHER STRUCTURAL MEMBERS. IN NO CASES SHALL PIPING BE ATTACHED DIRECTLY TO ROOF DECK. All REQUIRED PIPE SLEEVES, HANGERS AND SUPPORTS SHALL BE FURNISHED AND INSTALLED IN PROPER AND PERMANENT LOCATIONS. PIPE SHALL NOT PASS THROUGH BEAMS OR OTHER STRUCTURAL MEMBERS.
B. LEAK TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE GENERAL CONTRACTOR'S JOB SUPERINTENDENT FOR THE FOLLOWING:
   1. NEW SOIL, WASTE, AND VENT PIPING IN THE BUILDING SHAII BE TESTED AT A HYDROSTATIC PRESSURE OF 10 FEET OF WATER.
   2. NEW WATER PIPING SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE OF 130 PSI FOR A PERIOD OF 30 MINUTES.
   3. WHILE THE ABOVE TEST PRESSURES ARE BEING MAINTAINED, A THOROUGH INSPECTION WILL BE MADE AND LEAKS OR DEFECTS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
C. All ASSOCIATED EQUIPMENT, PIPE, VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS, AND SLUDGE WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR TESTING. CLEANING REQUIREMENTS SHALL APPLY TO EXISTING, NEW PIPING, AND SYSTEMS.

3.02 CLEANING

A. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING AS FOLLOWS:
   1. PURGE NEW PIPING AND PARTS OF EXISTING DOMESTIC WATER PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED BEFORE USING.
   2. USE PURGING AND DISINFECTING PROCEDURES PRESCRIBED BY AUTHORITIES HAVING JURISDICTION. IF METHODS ARE NOT PRESCRIBED USE PROCEDURES DESCRIBED IN EITHER AWWA C651 OR AWWA C652 OR AS DESCRIBED BELOW:
      A. FLUSH PIPING SYSTEM WITH CLEAN POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS.
      B. Fill AND ISOLATE SYSTEM ACCORDING TO EITHER OF THE FOLLOWING:
         1) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS.
         2) FILL SYSTEM OR PART THEREOF WITH WATER/CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ISOLATE AND ALLOW TO STAND FOR THREE HOURS.
      C. FLUSH SYSTEM WITH CLEAN POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.
      D. SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURES IF BIOLOGICAL EXAMINATION SHOWS CONTAMINATION.
B. PREPARE AND SUBMIT REPORTS OF PURGING AND DISINFECTING ACTIVITIES.
C. CLEAN INTERIOR OF DOMESTIC WATER PIPING SYSTEM. REMOVE DIRT AND DEBRIS AS WORK PROGRESSES.
END OF SECTION 22 0000



1 PIPE PENETRATION DETAIL
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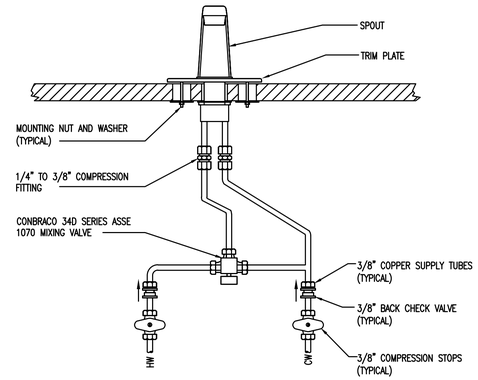

2 FAUCET PIPING DETIAL
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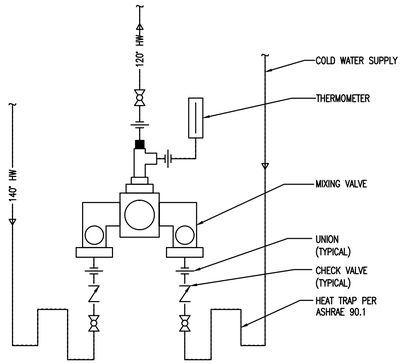

3 MIXING VALVE DETAIL
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PLUMBING DETAILS

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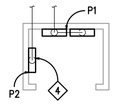

1 WEST SPACE POWER PANELS

SCALE: N.T.S.

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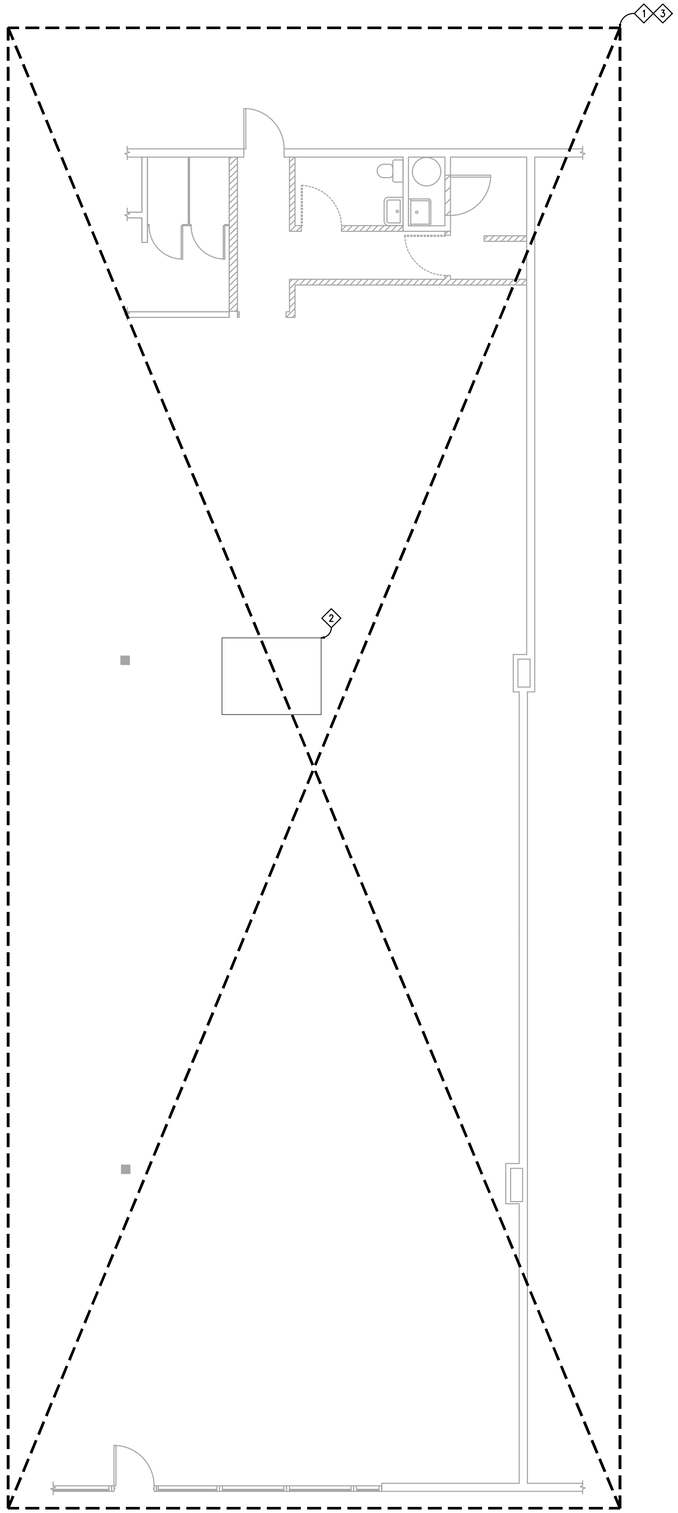

1 FIRST FLOOR ELECTRICAL/ELECTRICAL LIGTHING - DEMOLITION

SCALE: 3/16"=1'-0"

NORTH

GENERAL NOTES

1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. EXISTING EQUIPMENT LAYOUT IS SCHEMATIC. EXACT LOCATION OF EXITING DUCT/PIPING AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS, AND ALL OTHER TRADES PRIOR TO DEMOLITION.
3. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUES, ORDINANCES, CODES, OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
4. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, Sta TE FIRE INSURANCE REGULATION BODY, NFPA, OR OTHERS, THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
5. COORDINATE CUTTING AND PATCHING WITH GENERAL CONTRACTOR.
6. PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, OR OTHER FIXED ACCESSORIES AND EQUIPMENT. MATCH NEW MATERIALS WITH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
7. NOTATIONS MAY BE MADE IN VARIOUS PLACES ON THE DRAWINGS TO CALL ATTENTION TO DEMOLITION WHICH IS REQUIRED. HOWEVER, THESE DRAWINGS ARE NOT INTENDED TO SHOW EACH ITEM TO BE REMOVED. CONTRACTOR SHALL REMOVE ALL MATERIALS RELATED TO THEIR RESPECTIVE TRADES AS REQUIRED TO PERMIT THE CONSTRUCTION OF THE NEW WORK AS SHOWN.
8. THE GENERAL CONTRACTOR SHALL COORDINATE THE EXTENT OF THE REQUIRED DEMOLITION OF THE EXISTING BUILDING AS REQUIRED TO " CILITATE THE CONSTRUCTION OF THE PROJECT AS SHOWN AS PART OF THIS WORK.
9. ALL DEMOLITION SHALL BE APPROVED NY THE OWNER/TENANT PRIOR TO COMMENCEMENT AND SHALL BE PERFORMED UNDER REQUIREMENTS AND APPROVAL OF THE LOCAL CODE JURISDICTIONS.
10. ASBESTOS ABATEMENT: CONTRACTOR SHALL NOTIFY BUILDING REPRESENTATIVE IMMEDIATELY IF AND WHEN ANY ITEMS ARE ENCOUNTERED THAT IN WAY WAY APPEAR TO BE OF A HAZARDOUS NATURE. ASBESTOS ABATEMENT IS NOT PART OF THE SCOPE OF THE DESIGN PROFESSIONALS DOCUMENTATION OR RESPONSIBILITY TO SURVEY, IDENTIFY, OR FOR CONSULTATION OF PROPER DISPOSAL.
11. PROTECT ALL EXISTING WORK WHICH IS TO REMAIN AND RESTORE IN AN APPROVED MANNER IF ANY SUCH WORK BECOMES DAMAGED.
12. RUBBISH AND DEBRIS RESULTING FROM THE WORK SHALL BE REMOVED IMMEDIATELY FROM THE SITE IN A SAFE AND LEGAL MANNER BY THE CONTRACTOR.
13. DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT BUILDING REPRESENTATIVE TO CLARIFY ANY ITEMS NOT SHOWN ON THESE DOCUMENTS OR SHOWN NOT MATCHING FIELD CONDITIONS.
14. CONTRACTOR MAY REUSE EXISTING CODE COMPLIANT CONDUITS, PROVIDING NEW WIRING. HOWEVER, THE CONTRACTOR WILL NOT BE COMPENSATED FOR REPLACEMENTS IF THEY ARE NOT CODE COMPLIANT.
15. REMOVE AND DISCONNECT UNUSED AND/OR ABANDON CONDUITS AND FEED BACK TO THE SOURCE.
16. COORDINATE EXISTING CONDITIONS FOR ANY UTILITIES SERVING ADJACENT TENANT SPACES ROUTED THROUGH THIS SPACE. EXISTING UTILITIES SHALL REMAIN OPERABLE FOR ADJACENT TENANTS.

ELECTRICAL DEMOLITION NOTES

1. DEMO ALL ELECTRICAL, POWER, AND OUTLETS BACK TO SOURCE. REPLACE WALL BOARD WHERE OUTLETS WERE LOCATED.
2. EXISTING RTU AND DISCONNECT TO REMAIN. REMOVE WIRE AND CONDUIT BACK TO SOURCE. SEE NEW PLANS FOR NEW WIRE AND CONDUIT.
3. DEMO ALL LIGHTS, WIRES, AND SWITCHES BACK TO SOURCE.
4. REMOVE POWER FEED FROM PANEL "P2" BACK TO CT CABINET ON THE EXTERIOR OF THE BUILDING. RELOCATE BREAKER AND POWER FEED FOR RTU-WEST TO PANEL "P1."

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ELECTRICAL AND LIGHTING DEMOLITION

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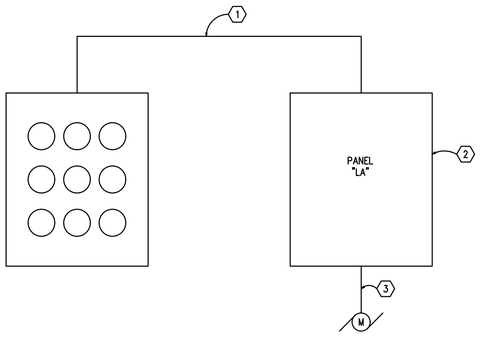
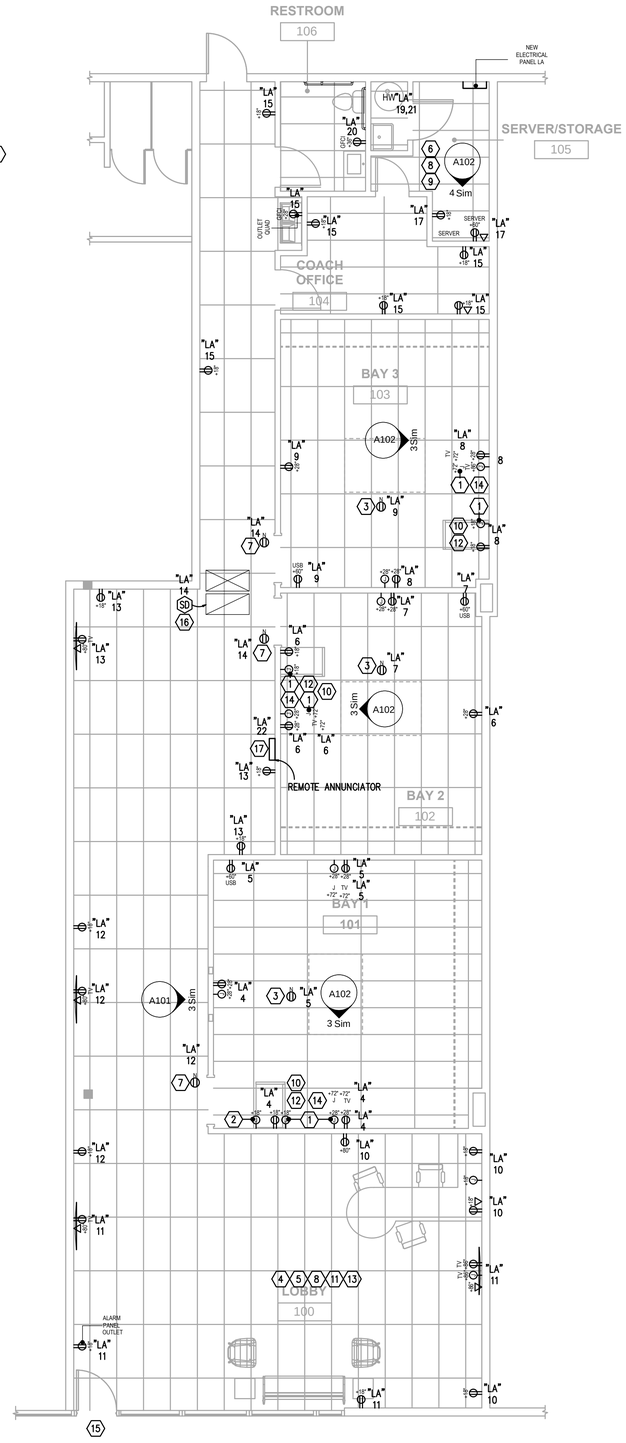


2 FIRST FLOOR ONE LINE

SCALE: N.T.S.

ELECTRICAL ONE LINE NOTES

1. PROVIDE NEW 225 AMP POWER FEED FROM EXISTING CT CABINET/METER TO NEW PANEL "LA." ROUTE (1) #4/0 PER PHASE/NEUTRAL AND (1) #4 GND IN 2" CONDUIT.
2. PRODIE NEW 225 AMP POWER PANEL INSTALLED IN NEW ELECTRICAL ROOM.
3. PROVIDE NEW 50 AM POWER FEED FROM PANEL "LA" TO EXISTING RTU DISCONNECT SWITCH. ROUTE (1) #8 AWG PER PHASE AND (1) #10) GND IN 1" CONDUIT.



1 FIRST FLOOR ELECTRICAL PLAN - NEW WORK

SCALE: 3/16"=1'-0"

NORTH

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICABLE STATUTES, ORDINANCES, CODES OR REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. WHERE APPROVED STANDARDS HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITERS LABORATORIES, AMERICAN CODES, ASA, ASHRAE, ARI, NEC, STATE FIRE INSURANCE REGULATION BODY, NFPA OR THESE STANDARDS SHALL BE FOLLOWED WHETHER OR NOT INDICATED ON THE DRAWING AND SPECIFICATIONS.
3. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ALL OTHER APPLICABLE CODES.
4. EXACT LOCATION OF CONDUIT, WIRING, AND EQUIPMENT SHALL BE COORDINATED WITH BUILDING STRUCTURE, EQUIPMENT FURNISHED, ARCHITECTURAL DRAWINGS AND ALL OTHER TRADES PRIOR TO INSTALLATION. ANY CONTRACTOR INSTALLING WORK WITHOUT PRIOR COORDINATION SHALL RELOCATE HIS WORK AT HIS EXPENSE TO ALLOW PROPER INSTALLATION OF ANY AND ALL TRADES' WORK.
5. UNLESS OTHERWISE NOTED, WIRE AND CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE CHROME ESCUTCHEON OR ALUMINUM DUCT COLLAR AT EACH PENETRATION OF A FINISHED SURFACE.
6. ANY ADDITIONAL LOW VOLTAGE CONTROL WIRING THAT IS REQUIRED SHALL BE PROVIDED BY THE HVAC CONTRACTOR. CONTROL WIRING SHALL BE RUN IN CONDUIT IF REQUIRED BY LOCAL CODES. FIELD VERIFY PRIOR TO BID. POWER WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
7. MATERIALS IN THE PLENUM SHALL BE MADE OF NONCOMBUSTIBLE MATERIALS OR MATERIALS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. SEE IMC FOR EXCEPTIONS.

ELECTRICAL NEW WORK NOTES

1. PROVIDE 1" CONDUIT RECESSED IN WALL CAVITY FROM J-BOX TO TV LOCATION FOR HDMI CABLE. J-BOX TO HAVE MUD-RING AND PULL STRING.
2. PROVIDE 1-1/2" CONDUIT TO SINGLE GANG J-BOX IN WALL AT 28" A.F.F. FOR CAMERAS. PROVIDE MUD-RING AND PULL STRING. RUN CONDUIT 6" ABOVE WALL.
3. PROVIDE CEILING MOUNTED RECEPTACLE AND/OR J-BOX. COORDINATE WITH TENANT ON EXACT LOCATION.
4. INSTALL OWNER PROVIDED HDMI CABLES.
5. INSTALL ALL TELEVISIONS PER PLAN. VERIFY EXACT LOCATIONS WITH GOLFTEC PRIOR TO INSTALL.
6. ELECTRICIAN TO PROVIDE PRICING TO OWNER FOR THE EXTENSION OF THE DEMARCATION EXTENSION (DMARC) TO THE SERVER ROOM.
7. PROVIDE CEILING MOUNTED RECEPTACLE RUN 1/2" OR 3/4" CONDUIT DOWN TO 5'6" A.F.F.; NO BOX NEEDED. COORDINATE WITH TENANT ON EXACT LOCATION.
8. ALL DATA TO BE RUN TO 12-PORT PATCH PANEL IN SERVER ROOM. PATCH PANEL PROVIDED BY G.C.
9. INTERNET CABLE TO RUN BACK TO SERVER. CAMERA CABLING TO RUN FROM DESK TO CAMERAS ONLY.
10. ALL OUTLETS AND SWITCHES TO BE GANGED AS CLOSE TOGETHER AS POSSIBLE. DO NOT SCALE PLANS FOR RECEPTACLE AND SWITCH PLACEMENT.
11. GENERAL CONTRACTOR TO FURNISH AND INSTALL ALL CAT-6 LOW VOLTAGE CABLE, KEYSTONE JACK TERMINATIONS, AND INSTALL OWNER PROVIDED HDMI CABLES.
12. ALL NEW AND EXISTING OUTLETS TO BE POSITIONED/RELOCATED TO BE CLUSTERED TOGETHER 4'0" FROM BACK WALL.
13. VERIFY NECESSARY OUTLET PLACEMENT AND QUANTITIES WITH GOLFTEC PM.
14. JACKETED/SHIELDED RJ45 JACK TO BE USED AT ALL DATA LOCATIONS WITHIN TRAINING BAYS. GROUNDED TO THE J-BOX AT CAMERA LOCATIONS ONLY. JACK: VCE RJ45 CAT 6A SHIELDED METAL JACK; CONFIRM WITH GOLFTEC PM PRIOR TO ORDER AND INSTALL.
15. POWER TO BE PROVIDED FOR EXTERIOR SIGNAGE; COORDINATE WITH GOLFTEC PM.
16. ELECTRICAL CONTRACTOR SHALL PROVIDE AND WIRE NEW DUCT SMOKE-DETECTOR (TO BE INSTALLED BY MECHANICAL CONTRACTOR) IN RETURN DUCT DROP.
17. PROVIDE REMOTE ANNUCIATOR FOR DUCT SMOKE DETECTOR WITH VISUAL & AUDIO ALARMS. KEY TEST AND RESET SWITCH. INSTALL AT +72" ON NEAREST COLUMN OR WALL. COORDINATE REQUIREMENTS WITH LOCAL AUTHORITY HAVING JURISDICTION. CONNECT TO 120V CIRCUIT AS SHOWN.

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ELECTRICAL NEW WORK

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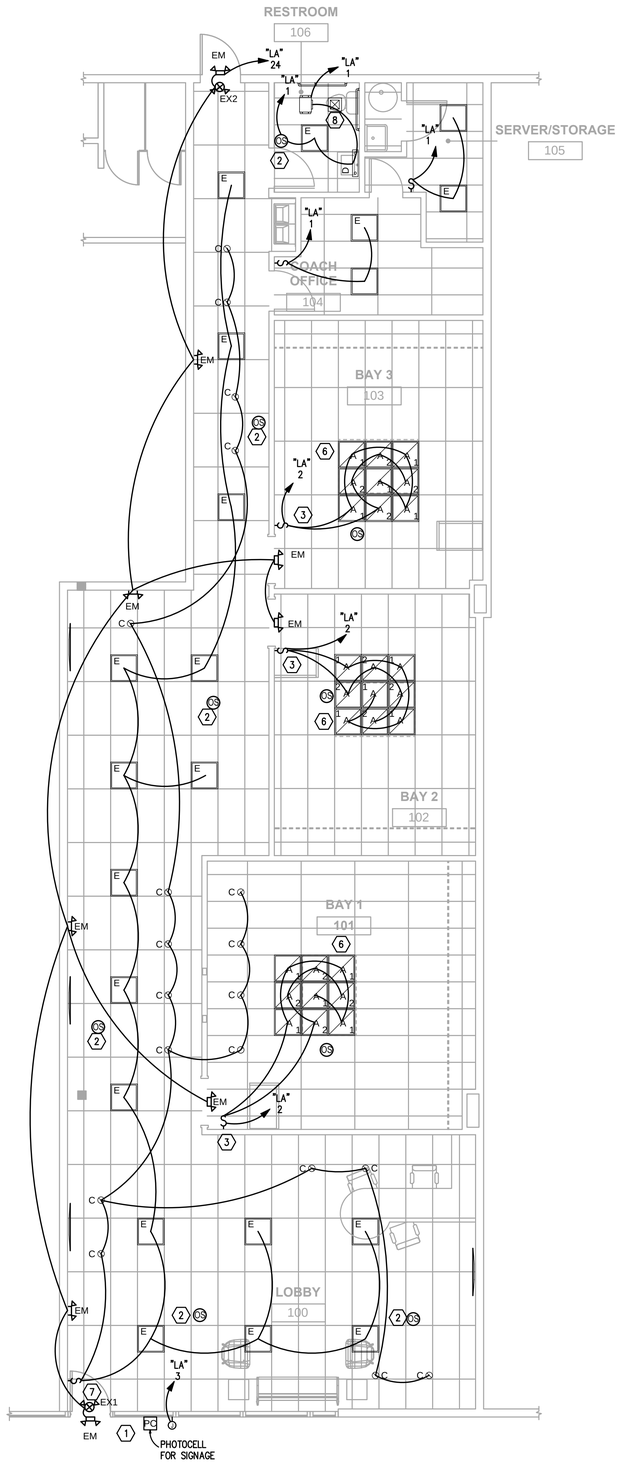

1 FIRST FLOOR ELECTRICAL LIGHTING PLAN - NEW WORK

SCALE: 3/16"=1'-0"

NORTH

GENERAL NOTES

1. PERFORM WORK IN ACCORDANCE WITH THE LATEST EDITIONS, REVISIONS, AMENDMENTS, OR SUPPLEMENTS OF APPLICCABLE STATUTES, ORDINANCES, CODES, OR REGULATIONS OF THE FEDERAL, STATE, AND LOCAL AUTHORITIES HAVING JURISDICTION IN EFFECT ON THE DATE BIDS ARE RECEIVED.
2. ALL WIRING IN THE INTERIOR SPACE SHALL CONSIST OF EMT AND COPPER CONDUCTORS. ALL CONDUITS LOCATED IN INTERIOR SPACE MUST BE RECESSED IN WALLS OR LOCATED HIGH UP IN CEILING SPACE ABOVE. SURFACE MOUNTED CONDUIT WILL NOT BE ALLOWED UNLESS OTHERWISE NOTED.
3. ALL BRANCH CIRCUIT SHALL CONTAIN A DEDICATED NEUTRAL AND EQUIPMENT GROUND CONDUCTOR. SHARED NEUTRALS ARE NOT PERMITTED.
4. ALL BATTERY OPERATED FIXTURE SHALL BE PROVIDED A DEDICATED HOT SUPPLY FROM THE SAME CIRCUIT SERVING THE NORMAL LIGHTING, AHEAD OF ANY CONTROLS.
5. COORDINATE EXACT LOCATIONS FOR SWITCHES, EQUIPMENT, AND LIGHTS WITH OWNER BEFORE INSTALLATION.
6. MATERIALS IN THE PLENUM SHALL BE MADE OF NONCOMBUSTIBLE MATERIALS OR MATERIALS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 723. SEE IMC FOR EXCEPTIONS.

ELECTRICAL LIGHTING NEW WORK NOTES

1. PROVIDE CONNECTION TO TENANT SIGN. PROVIDE ALL REQUIRED CONDUITS, WIRING, CONNECTIONS, AND CONTROLS FOR TENANT SIGN. SIGN TO BE CONTROLLED FROM PHOTOCELL AND TIMECLOCK. COORDINATE EXACT REQUIREMENTS AND LOCATIONS WITH THE SIGN CONTRACTOR.
2. LIGHTING TO BE AUTO ON/AUTO OFF AFTER 20 MINUTES. LIGHTING TO BE CONTROLLED BY SWITCH AND CEILING MOUNTED OCCUPANCY SENSOR. SENSORS IN SPACE TO CONTROL FIXTURE TYPE E AND FIXTURE TYPE C.
3. PROVIDE LIGHTING DEVICES AS FOLLOWS:

   SINGLE POLE – 15 AMPERE HEAVY DUTY SNAP SWCTH COMPLYING WITH NEMA WD 6 AND WD 1.

   DIMMER SWITCHES – ACUITY: nPODM 2P DX

   COLOR OF DEVICES AND COVER PLATES BY OWNER.
4. LIGHTING TO BE MANUAL ON/AUTO OFF AFTER 20 MINUTES. LIGHTING TO BE CONTROLLED BY DIMMER SWITCH AND CEILING MOUNTED OCCUPANCY SENSOR.
5. LIGHTING TO BE AUTO ON/AUTO OFF AFTER 20 MINUTES. LIGHTING TO BE CONTROLLED BY WALL MOUNTED OCCUPANCY SENSOR. WALL SENSOR TO CONTROL EXHAUST FAN.
6. LED LIGHTS IN BAYS TO BE ON TWO SEPARATE SWITCHES. NUMBER ON FIXTURE CORRELATES TO SWITCH. BOTH SWITCHES TO HAVE DIMMERS.
7. ALPHABETIC/NUMERIC LABEL ON SWITCH INDICATES SWITCH CONTROL FOR LIGHT FIXTURES WITH CORRESPONDING LABEL U.N.O.
8. INTERLOCK NEW EXHAUST FAN WITH TOILET ROOM LIGHT. COORDINATE WITH MECHANICAL CONTRACTOR.

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GOLFTEC INTERIOR TENANT IMPROVEMENT

340 SOUTHWEST BLUE PARKWAY
LEE'S SUMMIT, MO 64063

Joe Frogge

Digitally signed by Joe Frogge
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Date: 2020.03.18 12:08:46-05'00'

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GT PROJECT NO: GT-461

ELECTRICAL LIGHTING NEW WORK

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SECTION 26 0000

1. GENERAL ELECTRIC REQUIREMENTS

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK
A. WORK INCLUDES ALL ELECTRICAL ITEMS AND SYSTEMS SHOWN ON THE CONTRACT DRAWINGS AND SPECIFIED HEREIN.
B. UNLESS SPECIFICALLY DIMENSIONED, THE WORK SHOWN ON THE DRAWINGS IS SCHEMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCATION, INCLUDING ELEVATIONS, BY COORDINATION WITH THE CONSTRUCTION MANAGER AND OTHER TRADES AS WELL AS ALL THE DRAWINGS, PARTICULARLY ARCHITECTURAL.
C. INCLUDE IN THE SCOPE OF WORK ALL ACCESSORIES AND DEVICES NECESSARY FOR THE INTENDED OPERATION OF ANY SYSTEM, WHETHER OR NOT SPECIFICALLY SHOWN OR SPECIFIED.

1.02 STANDARDS OF QUALITY
A. THE SPECIFICATIONS ESTABLISH THE STANDARD OF QUALITY REQUIRED, EITHER BY DESCRIPTION OR BY REFERENCE TO BRAND NAME, NAME OF MANUFACTURERS OR MANUFACTURER'S MODEL NUMBER.
B. WHERE ONE PRODUCT ONLY IS SPECIFICALLY IDENTIFIED BY NAME OF MANUFACTURER'S MODEL NUMBER, THE CONTRACTOR SHALL BASE HIS BID ON THE USE OF THE NAME PRODUCT. WHERE MULTIPLE NAMES ARE USED THE CONTRACTOR SHALL BASE HIS BID ON THE USE OF ANY OF THOSE PRODUCTS NAMED.
C. WHEN EQUIPMENT AND/OR MATERIALS ARE PROPOSED TO BE PURCHASED FROM A MANUFACTURER OTHER THAN THOSE SPECIFIED, THE CONTRACTOR SHALL PROVIDE COMPLETE DATA ADEQUATE FOR THE ENGINEER'S EVALUATION OF THE PROPOSED SUBSTITUTION.
D. WHEN THE EQUIPMENT OTHER THAN THAT SPECIFIED IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA COST OF REQUIRED REVISIONS SUCH AS STRUCTURAL STEEL, CONCRETE, ELECTRICAL, PIPING, ETC. SUCH ADDITIONAL COSTS SHALL BE IDENTIFIED AT THE TIME SUCH SUBSTITUTIONS ARE PROPOSED.

1.03 SUMMARY
A. THIS SECTION INCLUDES GENERAL ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR ELECTRICAL INSTALLATIONS.
1. ROUGH-INS.
2. ELECTRICAL INSTALLATIONS.

1.06 DELIVERY, STORAGE AND HANDLING
A. IN THE ABSENCE OF SPECIFIC INSTRUCTION IN THE TECHNICAL SPECIFICATIONS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE FOLLOWING APPLICABLE CODES, STANDARDS, AND REGULATIONS, LATEST EDITIONS:
1. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)
2. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
3. UNDERWRITER'S LABORATORIES (UL)
4. AMERICANS WITH DISABILITIES ACT (ADA)
5. LOCAL BUILDING, ELECTRICAL, AND FIRE CODES.
6. NATIONAL ELECTRIC CODE (NEC)
7. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA)
8. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

PART 2 – EXECUTION

2.01 ROUGH-IN
A. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

2.02 ELECTRICAL INSTALLATIONS

2.08 FIELD QUALITY CONTROL
A. TEST ALL SYSTEMS AND EQUIPMENT FOR PROPER OPERATION, ACCURACY AND SUITABILITY. MAKE CORRECTIONS TO THE SATISFACTION OF THE OWNER AND DESIGN TEAM.

2.10 CLEANING AND PROTECTION
A. ON COMPLETION OF THE INSTALLATION, INCLUDING OUTLETS, FITTINGS, AND DEVICES, INSPECT EXPOSED FINISH. REMOVE BURRS, DIRT, PAINT, SPOTS, AND CONSTRUCTION DEBRIS.
B. PROTECT EQUIPMENT AND INSTALLATIONS AND MAINTAIN CONDITIONS TO ENSURE THAT COATINGS, FINISHES, AND CABINETS ARE WITHOUT DAMAGE OR DETERIORATIONS AT THE TIME OF SUBSTANTIAL COMPLETION.

2. LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES (600 V AND LESS)

PART 1 – PRODUCTS

1.02 BUILDING WIRE
A. DESCRIPTION: SINGLE CONDUCTOR INSULATED WIRE
B. CONDUCTOR: COPPER
C. INSULATION VOLTAGE RATING: 600 VOLTS.

PART 2 – EXECUTION

2.01 EXAMINATION
A. VERIFY THAT RACEWAY INSTALLATION IS COMPLETE AND SUPPORTED.
B. VERIFY THAT MECHANICAL WORK LIKELY TO DAMAGE WIRE AND CABLE HAS BEEN COMPLETED.
C. VERIFY THAT INTERIOR OF BUILDING HAS BEEN PROTECTED FROM WEATHER.

2.02 INSTALLATION
A. INSTALL WIRE AND CABLE SECURELY, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED BY NECA 1.
B. IDENTIFY AND COLOR CODE WIRE AND CABLE AS SPECICIED. IDNTIFY EACH CONDUCTOR WITH ITS CIRCUIT NUMBER OR OTHER DESIGNATION INDICATED.
C. USE WIRING METHODS INDICATED.
D. PULL ALL CONDUCTORS INTO RACEWAY AT SAME TIME.
E. USE SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE 4 AWG AND LARGER.
F. ROUTE WIRE AND CABLE AS REQUIRED TO MEET PROJECT CONDITIONS.

3. GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 SECTION INCLUDES
A. PROVIDE ALL COMPONENTS NECESSARY TO COMPLETE THE GROUNDING SYSTEM(S) CONSISTING OF:
1. METAL UNDERGROUND WATER PIPE.
2. METAL FRAME OF THE BUILDING
3. ROD ELECTRODES.

PART 2 – PRODUCTS

2.02 CONNECTORS AND ACCESSORIES
A. GROUNDING CONDUCTORS.
1. EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

4. HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

PART 3 – EXECUTION

3.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
1. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
B. IN WET AND DAMP LOCATIONS USE STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS 1 INCH OFF WALL.
C. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
D. DRY LOCATIONS:
1. CONCEALED: USE ELECTRICAL METALLIC TUBING.
2. EXPOSED: USE ELECTRICAL METALLIC TUBING.

2.05 ELECTRICAL METALLIC TUBING (EMT)
A. DESCRIPTION: ANSI C80.3; GALVANIZED TUBING.
B. FITTINGS AND CONDUIT BODIES: NEMA FB 1; STEEL SET SCREW TYPE.

6. BOXES

PART 1 – GENERAL

1.05 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: PROVIDE PRODUCTS LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC., AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 2 – PRODUCTS

2.01 OUTLET BOXES
A. SHEET METAL OUTLET BOXES: NEMA OS 1, GALVANIZED STEEL.
1. LUMINAIRE AND EQUIPMENT SUPPORTING BOXES: RATED FOR WEIGHT OF EQUIPMENT SUPPORTED: INCLUDE 1/2 INCH MALE FIXTURE STUDS WHERE REQUIRED.

2.02 PULL AND JUNCTION BOXES

A. SHEET METAL BOXES: NEMA OS 1, GALVANIZED STEEL.
B. HINGED ENCLOSURES: AS SPECIFIED IN SECTION 26 2716

PART 3. – EXECUTION

3.01 EXAMINATION
A. VERIFY LOCATIONS OF FLOOR BOXES AND OUTLETS IN OFFICES AND WORK AREAS PRIOR TO ROUGH-IN.

3.02 INSTALLATION
A. INSTALL IN LOCATIONS AS SHOWN ON DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND AS REQUIRED BY NFPA 70.
B. SET WALL MOUNTED BOXES AT ELEVATIONS TO ACCOMMODATE MOUNTING HEIGHTS INDICATED.
C. INSTALL PULL BOXES AND JUNCTION BOXES ABOVE ACCESSIBLE CEILINGS AND IN UNFINISHED AREAS ONLY.
D. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES, AND BACKSPLASHES.
E. LOCATE OUTLET BOXES TO ALLOW LUMINAIRES POSITIONED AS SHOWN ON REFLECTED CEILING PLAN.
F. ALIGN ADJACENT WALL MOUNTED OUTLET BOXES FOR SWITCHES, THERMOSTlas S, AND SIMIAR DEVICES.
G. USE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.
H. GANG BOX WHERE MORE THAN ONE DEVICE IS MOUNTED TOGETHER. DO NOT Uspl SECTIONAL BOX.
I. USE CAST OUTLET BOX IN EXTERIOR LOCATIONS EXPOSED TO THE WEATHER AND WET LOCATIONS.

7. IDENTIFICATION FOR ELECTRICAL SYSTEMS

PART 1 – GENERAL

1.01 SECTION INCLUDES
A. NAMEPLATES AND LABELS.
B. WIRE AND CABLE MARKERS.
C. CONDUIT MARKERS.
D. FIELD-PAINTED IDENTIFICATION OF CONDUIT.

PART 2 – GENERAL

2.01 NAMEPLATES AND LABELS
A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, BLACK LETTERS ON WHETE BACKGROUND.
B. LOCATIONS:
1. EACH ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT ENCLOSURE.
C. LETTER SIZE
1. USE 1/8" INCH LETTERS FOR IDENTIFYING INDIVIDUAL EQUIPMENT AND LOADS.
D. LABELS: EMBOSSED ADHESIVE TAPE, WITH 3/16 INCH WHITE LETTERS ON BLACK BACKGROUND. USE ONLY FOR IDENTIFICATION OF INDIVIDUAL WALL SWITCHES AND RECEPTACLES, CONTROL DEVICE STATIONS, AND OTHER OUTLETS, WHERE INDICATED FOR SPECIFIC PURPOSES OR AS A DEDICATED CIRCUIT.

2.02 WIRE MARKERS
A. DESCRIPTION: CLOTH OR TAPE TYPE WIRE MARKERS.
B LOCATIONS: EACH CONDUCTOR AT PANEL BOARD GUTTERS AND OUTLET BOXES EACH LOo CONNECTION.
C. LEGEND:
1. POWER AND LIGHTING CIRCUITS: BRANCH CIRCUIT OR FEEDER NUMBER INDICATED ON DRAWINGS.

10. WIRING DEVICES

PART 1 – GENERAL

1.01 SUBMITTALS
A. PRODUCT DATA: PROVIDE MANUFACTURER'S CATALOG INFORMANTION SHOWING DIMENSIONS, COLORS, AND CONFIGURATIONS.

PART 2 – PRODUCTS

2.01 MANUFACTURERS
A. COOPER WIRING DEVICES
B. LEVITON MANUFACTURING, INC
C. HUBBELL INC.
D. PASS & SEYMOUR/LEGRAND

2.02 WALL SWITCHES
A. WALLSWITCHES: HEAVY DUTY, AC ONLY GENERAL-USE SNAP SWITCH, COMPLYING WITH NEMA WD 6 AND WD 1.
1. BODY AND HANDLE: COLOR BY ARCHITECT, PLASTIC WITH TOGGLE HANDLE.
2. RATINGS:
A. VOLTAGE: 120 VOLTS, AC
B. CURRENT: 20 AMPERES.
B. SWITCH TYPES: SINGLE POLE, DOUBLE POLE, AND 3-WAY

2.03 RECEPTACLES
A. RECEPTACLES: HEAVY DUTY, COMPLYING WITH NEMA WD 6 AND WD 1.
B. MINIMUM INTEGRATED SHORT CIRCUIT RATING: AS INDICATED.
C. MOLDED CASE CIRCUIT BREAKERS: THERMAL MAGNETIC TRIP CIRCUIT BREAKERS, BOLT-ON TYPE, WITH COMMON TRIP HANDLE FOR ALL POLES; UL LISTED.
1. DEVICE BODY: COLOR BY ARCHITECT, PLASTIC.
D. CONVENIENCE RECEPTACLES: TYPE 5-20.
E. DUPLEX CONVENIENCE RECEPTACLES.
F. GFCI RECEPTACLES: CONVENIENCE RECEPTACLE WITH INTEGRAL FROUND FAULT CIRCUIT INTERRUPTER TO MEET REGULATORY REQUIREMENTS.

2.04 WALL PLATES
A. DECORATIVE COVER PLATES: COLOR TO MATCH DEVICE, SMOOTH PLASTIC.
B. WEATHER PROOF IN-USE COVER PLATES: GASKETED CAST METAL WITH HINGE.

PART 3 – EXECUTION

3.01 PREPARATION
A. PROVIDED EXTENSION RINGS TO BRING OUTLET BOXES FLUSH WITH FINISHED SURFACE.

3.02 INSTALLATION
A. INSTALL DEVICES PLUMB AND LEVEL.
B. INSTALL SWITCHES WITH OFF POSITION DOWN.
C. INSTALL RECEPTACLES WITH GROUNDING POLE ON BOTTOM.
D. CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BONDING JUMPER.
E. INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS.

LIGHT FIXTURE SCHEDULE

DESIGNATION	MANUFACTURER	TYPE	MODEL No.	LUMENS	WATTS	NOTES
A	AXIS	2'X2' SQUARE	SES-SH6928-LX-75	6700	60	
B	MAXLITE	6" CAN	RR61127W-L7	880	11	
C	MAXLITE	6" DIRECTIONAL	RRA61030W	875	10	
D	MAXLITE	VANITY	ML8LS20RBNIP	1500	20	
E	MAXLITE	2'X2' SQUARE	MLFP22EP3035	3360	28.5	
F	VONN	INTERIOR PENDANT	VMC31650	2300	30	1
G	Green Creative	TRACK FIXTURE	8TRSG4DIM/830/W/H	625	8	1
EX1	LIGHT FIXTURE INDUSTRIES	EXIT SIGN	COMBO-LP-R-ST	N/A	N/A	
EX2	LIGHT FIXTURE INDUSTRIES	EXIT SIGN	COMBO-LP-R-ST WITH RHB-WPL1	N/A	N/A	
EM	LIGHT FIXTURE INDUSTRIES	EMERGENCY	EL-MW2	N/A	N/A	
TS	INTERMATIC	TIME SWITCH	T1471BCR	N/A	N/A	1
S	LEVITON	SINGLE/3WAY DIM	DSM10-1LZ	N/A	N/A	1
S	LEVITON	REMOTE SWITCH	56932W	N/A	N/A	1
nLight	ACUITY	POWER PACK	nPP16D	N/A	N/A	1
nLight	ACUITY	POWER PACK	nSP5-PCD	N/A	N/A	1
nLight	ACUITY	SWITCH FOR A	nPODM DX	N/A	N/A	1
nLight	ACUITY	SWITCH FOR A	nPODM 2P DX	N/A	N/A	1
nLight	ACUITY	LIGHT SENSOR	nCM-PDT-9-ADCX-RJB	N/A	N/A	1
nLight	ACUITY	OCC SENSOR	WSXPDTWH	N/A	N/A	1
nLight	ACUITY	OCC SENSOR	WSXPDT2PWH	N/A	N/A	1

NOTES
1. COORDINATE WITH OWNER BEFORE PURCHASE AND INSTALLATION.

LA

VOLTAGE: 208 VOLTS 3 PHASE 4 WIRE
MAIN BUS: 225 AMP
MAIN BREAKER: 200 AMP
SHORT CIRCUIT CURRENT RATING: 10k AMPS AT 208 VAC
ENCLOSURE: NEMA
MANUFACTURER/TYPE: SQUARE D / NF

☐ MAIN BREAKER
☑ MAIN LUGS ONLY
☐ FEED THROUGH LUGS
☐ SOLID NEUTRAL
☐ 200% NEUTRAL

CONDUCTOR FEED:
☐ TOP
☐ BOTTOM

PANEL MOUNTING:
☑ FLUSH
☐ SURFACE

LOCATION: SERVER/STORAGE 105
FEEDER:
SOURCE: EXISTING UTILITIES

DESCRIPTION	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	BREAKER TRIP	BREAKER POLES	CIRCUIT BREAKER POLE NO.	CIRCUIT BREAKER PANEL DIAGRAM	CIRCUIT BREAKER POLE NO.	BREAKER POLES	BREAKER TRIP	LOAD (VA) A	LOAD (VA) B	LOAD (VA) C	DESCRIPTION
LIGHTING AND EF	887			20	1	1		2	1	20	810			LIGHTING
EXTERIOR SIGN		1000		20	1	3		4	1	20		720		BAY RECEPTACLE
BAY RECEPTACLE			720	20	1	5		6	1	20			720	BAY RECEPTACLE
BAY RECEPTACLE	540			20	1	7		8	1	20	720			BAY RECEPTACLE
BAY RECEPTACLE		540		20	1	9		10	1	20		720		LOBBY RECEPTACLE
LOBBY RECEPTACLE			540	20	1	11		12	1	20			720	LOBBY RECEPTACLE
LOBBY RECEPTACLE	540			20	1	13		14	1	20	540			HALL RECEPTACLE & SMOKE DETECTOR
HALL RECEPTACLE		360		20	1	15		16	1	20		720		COACH RECEPTACLE
SERVER			500	20	1	17		18	1	20			180	BATHROOM RECEPTACLE
WATER HEATER BREAKER	900			20	1	19		20	1	20	1500			EWC
		900		20	1	21		22	1	20		1200		REMOTE ANNUNCIATOR
			5400	20	1	23		24	1	20			25	EMERGENCY LIGHTING
EXISTING RTU	5400			20	1	25		26	1	20				SPARE
		5400		20	1	27		28	1	20				SPARE
SPARE				20	1	29		30	1	20				SPARE
SPARE				20	1	31		32	1	20				SPARE
SPARE				20	1	33		34	1	20				SPARE
SPARE				20	1	35		36	1	20				SPARE
SPARE				20	1	37		38	1	20				SPARE
SPARE				20	1	39		40	1	20				SPARE
SPARE				20	1	41		42	1	20				SPARE
TOTAL LOAD KVA (NO DIVERSITY)	8.3	8.2	7.2	32.2							3.6	3.4	1.6	TOTAL LOAD KVA (NO DIVERSITY)

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ELECTRICAL DETIALS

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