LANDLORD NOTES:

GENERAL GROWTH PROPERTIES IS COMMITTED TO SUSTAINABLE DESIGN CONSTRUCTION PRACTICES, AND OPERATIONS. GGP ENCOURAGES TENANTS TO PARTICIPATE THROUGH VOLUNTARY INCORPORATION OF THE FOLLOWING STRATEGIES:

DIVERT CONSTRUCTION WASTE FROM LANDFILLS
1. SEGREGATE DEMOLITION AND CONSTRUCTION WASTE AND MAXIMIZE RECYCLING OF ITEMS SUCH AS CEILING TILES, METAL STUDS, LIGHT BULBS/LAMPS, GLASS AND OTHER INTERIOR FIXTURES, ETC.
2. SALVAGE ITEMS SUCH AS LIGHT FIXTURES, DOOR/FRAMES, PLUMBING & STORE FIXTURES, ETC.
3. DONATE SALVAGED ITEMS TO THE RESTORE PROGRAM, WHICH BENEFITS HABITAT FOR HUMANITY. COORDINATE WITH MALL TENANT COORDINATOR AND MALL OPERATIONS MANAGER.

IMPROVE INDOOR AIR QUALITY
4. REDUCE CONSTRUCTION DUST & AIR PARTICULATES WITH DUST CONTAINMENT SYSTEMS AND/OR SHUT OFF CIRCULATING AIR.
5. SEAL-OFF ALL HVAC DUCTWORK FOR RE-SUE AND CLEAN PRIOR TO OCCUPANCY.
6. USE CLEANSERS AND MAINTENANCE PRODUCTS THAT ARE ECO-FRIENDLY.

HAZARDOUS SUBSTANCE
7. IT IS THE RESPONSIBILITY OF THE TENANT AND THE TENANT'S CONTRACTOR (S), WHEN PREPARING FOR AND PROCEEDING WITH CONSTRUCTION IN THE PREMISES, TO COMPLY WITH ALL REQUIREMENTS OF ALL APPLICABLE LAWS CONCERNING HAZARDOUS SUBSTANCES. THE TENANT SHALL NOT PERMIT THE INSTALLATION OR USE OF ANY HAZARDOUS SUBSTANCES IN ANY COMPONENT OF THE PREMISES DURING ITS TENANCY.

ADA COMPLIANCE
8. TENANT'S LEASED PREMISES MUST COMPLY WITH TITLE III OF THE AMERICANS WITH DISABILITIES ACT (ADA). COMPLIANCE WILL INCLUDE, BUT NOT LIMITED TO, THE DESIGN, CONSTRUCTION AND/OR ALTERATION OF THE LEASED PREMISES. UPON COMPLETION OF WORK, TENANT OR TENANT'S ARCHITECT MUST SUPPLY TO LANDLORD A LETTER, SATISFACTORY TO LANDLORD, STATING THAT THE LEASED PREMISES HAVE BEEN DESIGNED AND CONSTRUCTED IN ACCORDANCE AND ARE IN COMPLIANCE WITH THE ADA.

- TENANT CONTRACTOR SHALL PERFORM FIRST-CLASS WORKMANSHIP. ACCEPTANCE IS CONTINGENT UPON LANDLORD APPROVAL.
- TENANT CONTRACTOR WILL REPAINT AND/OR REPAIR LANDLORD PROPERTY (NEUTRAL PIERS, BULKHEAD, REAR CORRIDOR, ETC.) DAMAGED DURING TENANT IMPROVEMENTS.
- TENANT IS LIABLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF LANDLORD'S FIRE PROTECTION ENGINEERS DURING ORIGINAL CONSTRUCTION AND ALL SUBSEQUENT FIELD INSPECTIONS.
- ANY PENETRATIONS OF OR MODIFICATIONS TO STRUCTURAL STEEL OR CONCRETE MUST BE COORDINATED WITH LOCAL GENERAL GROWTH AUTHORITY.
- APPROVAL IS SUBJECT TO VERIFICATION OF CONDITIONS AND COMPLIANCE WITH PROCEDURES FROM LOCAL GENERAL GROWTH PROPERTIES AUTHORITY.
- CONTACT STEVE KRIER, OPERATIONS MANAGER, AT 507-280-7261 PRIOR TO WORK START.

INTERIOR TENANT IMPROVEMENT / FIT-OUT

STORE NO. US366 (BLUE) 2016
APACHE MALL, SPACE NO. 305
1201 12TH STREET SW.
ROCHESTER, MN 55902

PROJECT DIRECTORY

TENANT

H&M HENNES & MAURITZ LC
1 DUNDAS STREET WEST, SUITE 1808
TORONTO, ON,. CANADA. M5G 1Z3
TEL: (416) 527-2981
E-MAIL: JESSICA.ARMENI@HM.COM

CONTACT: JESSICA ARMENI, PROJECT MANAGER

ARCHITECT

SARGENTI ARCHITECTS
ROBERT SARGENTI, PRINCIPAL ARCHITECT
461 FROM ROAD, 2ND FLOOR
PARAMUS, NJ 07652

TEL: 973-253-9393
FAX. 973-253-9390

CONTACT:
SANDRA RIVAS
SENIOR PROJECT MANAGER, EXT. 142
EMAIL: SRIVAS@SARGARCH.COM

ALICE PINTO
PROJECT MANAGER, EXT. 193
EMAIL: APINTO@SARGARCH.COM

MEP ENGINEERING CONSULTANT

HALLBERG ENGINEERING, INC.
1750 COMMERCE COURT
WHITE BEAR LAKE, MN 55110

TEL: 651-748-4361
E-MAIL: CSUTHERLAND@HALLBERGENGINEERING.COM

CONTACT: CORY SUTHERLAND

STRUCTURAL ENGINEERING CONSULTANT

CARUSO TURLEY SCOTT STRUCTURAL ENGINEERS
1215 W. RIO SALADO PKWY SUITE 200
TEMPE, AZ. 85281

TEL: 480-774-1700

CONTACT: TOM MORRIS

LANDLORD'S REPRESENTATIVE

GENERAL GROWTH PROPERTIES
110 NORTH WACKER DRIVE
CHICAGO, IL 60606
TEL: 312-960-5581
EMAIL: APUNTUZS@GGP.COM

CONTACT: ANTHONY PUNTUZS

GENERAL CONTRACTOR

AXXYS CONSTRUCTION (ACG)
4101 NICOLS RD., SUITE 100
EAGAN, MN. 55122

TEL: 877-588-8080
E-MAIL: JVROOMAN@AXXYCONSTRUCTION.COM

CONTACT: JUSTIN VROOMAN

PERMIT EXPEDITER

BURNHAM NATIONWIDE, INC.
111 WEST WASHINGTON STREET, SUITE 450
CHICAGO, IL 60602

TEL: 312-260-7132
E-MAIL: RMCHUGH@BURNHAMNATIONWIDE.COM

CONTACT: RYAN MCHUGH

DEFERRED/SEPARATE D.O.B. SUBMITTALS

- FIRE ALARM (BY G.C.)
- FIRE SPRINKLER (BY G.C.)

IT IS THE G.C.'S RESPONSIBILITY TO SUBMIT ANY POST PERMIT SET REVISIONS TO D.O.B. AND PAY ALL RELATED FEES.

EXISTING TENANTS TO BE RE-DEMISED

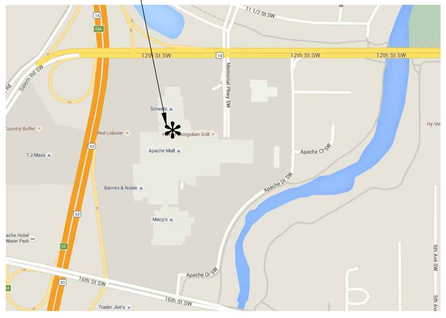
GROUND LEVEL
SPACE #301 - PAYLESS SHOE SOURCE
SPACE# 305 - NEW YORK AND COMPANY
SPACE #306 - KITCHEN COLLECTION
SPACE #308 - CARIBOU COFFEE
SPACE #309 - NORTH WOODS CANDY EMPORIUM
SPACE #310 - UDS
SPACE #311 - VACANT

* REFER TO LANDLORD'S DRAWINGS FOR SCOPE OF WORK PERTAINING TO SHELL BLDG. / RE-DEMISE OF EXISTING SPACES

LOCATION PLAN (N.T.S.)

H&M
STORE NO. US366
APACHE MALL
SPACE NO. 305
1201 12TH. STREET SW.
ROCHESTER, MN 55902

NORTH



CODE ANALYSIS

THESE PLANS COMPLY WITH THE PROVISION OF TITLE III OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) PUBLIC LAW 101-336, FOR HANDICAPPED ACCESSIBILITY FOR CUSTOMER AND EMPLOYEES.

ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH THE PROVISIONS OF THE SPECIFICATIONS, DRAWINGS & CONSTRUCTION CRITERIA OF THE LANDLORD, AND SHALL SATISFY ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS OF ALL GOVERNING BODIES INVOLVED. ANY MODIFICATIONS TO THE CONTRACT WORK REQUIRED BY SUCH AUTHORITIES SHALL BE PERFORMED BY THE GENERAL CONTRACTOR. ALL PERMITS AND LICENSES NECESSARY FOR THE EXECUTION OF THE WORK SHALL BE SECURED AND PAID FOR BY THE GENERAL CONTRACTOR.

THESE PLANS ARE IN CONFORMANCE WITH THE FOLLOWING CODES:

BUILDING:	2012 IBC w/ 2015 MINNESOTA STATE BUILDING CODE (CHAPTER 1305) ADOPTION
PLUMBING:	2012 IBC w/2015 MINNESOTA STATE PLUMBING CODE (CHAPTER 4715) ADOPTION
MECHANICAL:	2012 IBC w/2015 MINNESOTA STATE MECHANICAL CODE (CHAPTER 1346) ADOPTION
ELECTRICAL:	2014 NEC w/2015 MINNESOTA STATE ELECTRICAL CODE (CHAPTER 1315) ADOPTION
ACCESSIBILITY:	MINNESOTA STATE ACCESSIBILITY CODE (CHAPTER 1341, ICC/ANSI A117.1-2003)
ENERGY CODE:	MINNESOTA COMMERCIAL ENERGY CODE (CHAPTER 1323)

USE GROUP: M - MERCANTILE (SECT. 309.1), S-1 - STORAGE (SECT. 311.1)
SEPARATED OCCUPANCIES (SECT. 508.4, TABLE 508.4)

CONSTRUCTION TYPE: II-B, FULLY SPRINKLERED (TABLE 601, SECTION 601)

OCCUPANT LOAD (TABLE 1004.1):

SITE INFORMATION:
APACHE MALL
SPACE NO. 305
1201 12TH STREET S.W.
ROCHESTER, MN 55902

SALES AREA (GRADE FLOOR) + DISPLAY WINDOWS + OFFICE AREAS/SUPPORT + TOILET ROOMS + FITTING ROOMS: 20,391 / 30 SF PER PERSON = 680 PEOPLE
STOCK ROOM + NIGHTBOX: 1,834 / 300 SF PER PERSON = 6 PEOPLE
TOTAL OCCUPANT LOAD: = 686 PEOPLE

EXIT REQUIREMENTS: (SECTION 1015.1.1):
NUMBER OF EXITS REQUIRED : (3) EXITS FOR OCCUPANT LOAD OF 501-1,000
NUMBER OF EXITS PROPOSED: (4)

EXIT WIDTH REQ'D. (SECT. 1005.1):
0.2" PER OCCUPANT X 686 OCCUPANTS = 137.2"
PROVIDED: 493" (41'-1"), 44" WIDE MIN. PATH

MIN. AISLE WIDTH REQ'D.: 36" MIN. (SECT. 1017.3)

MIN. PLUMBING FIXTURE REQUIREMENTS: (2015 MINNESOTA STATE PLUMBING CODE)
DISTANCE TO CENTRAL COMMON TOILET FACILITIES (SECTION 403.3): >300'
PLUMBING FACILITIES WITHIN TENANT SPACE ARE COMBINED EMPLOYEE & PUBLIC FACILITIES (SECTION. 403.2 & 403.3)

MAX. NUMBER OF EMPLOYEES AT A TIME; 18 PEOPLE

FIXTURE:	REQUIRED:	PROPOSED:
WATER CLOSET	1 MALE, 1 FEMALE	2 - 1 MALE, 1 FEMALE (FOR EMPLOYEE AND PUBLIC USE)
LAVATORY	1 MALE, 1 FEMALE	2 - 1 MALE, 1 FEMALE (FOR EMPLOYEE AND PUBLIC USE)
DRINKING FOUNTAIN	1	2, 'HI-LO' TYPE
SERVICE SINK	1	1

AREA CALCULATIONS

GROSS SQUARE FOOTAGE

SALES AREA:	16,145 SF
DISPLAY WINDOW AREAS:	930 SF
FITTING ROOMS:	994 SF
TOILET ROOMS:	138 SF
BACK OF HOUSE AREAS:	1,823 SF
STOCKROOM:	1,622 SF
NIGHTBOX:	161 SF
TOTAL:	(V.I.F.) 21,813 SF

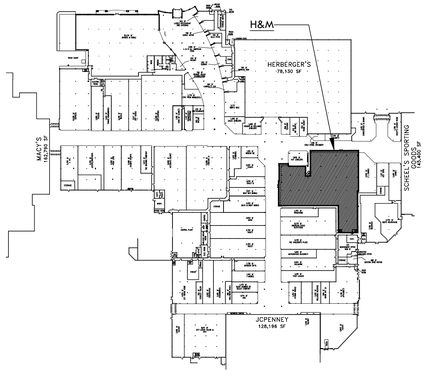
NET SQUARE FOOTAGE

SALES AREA:	15,453 SF
DISPLAY WINDOW AREAS:	817 SF
FITTING ROOMS:	838 SF
TOILET ROOMS:	119 SF
BACK OF HOUSE AREAS:	1,598 SF
STOCKROOM:	1,410 SF
NIGHTBOX:	129 SF
TOTAL:	20,364 SF

KEY PLAN (N.T.S.)

H&M
STORE NO. US366
APACHE MALL
SPACE NO. 305
1201 12TH. STREET SW.
ROCHESTER, MN 55902

NORTH



± 400' TO CLOSEST CENTRAL COMMON FACILITIES TO TENANT SPACE

LIST OF DRAWINGS

● REVISED & ISSUED
○ ISSUED

DWG. #	LIST OF DRAWINGS	CLIENT REVIEW (80%) 02.24.16	LANDLORD REVIEW & BID 03.11.16	LL/CLIENT COMMENTS 1 03.21.16	PERMIT / 2 04.01.16	FIELD CONDITIONS 3 04.13.16
A-000.03	TITLE SHEET	○	○	●	●	●
A-010.02	GENERAL NOTES & RESPONSIBILITY SCHEDULE		○		●	○
A-100.00	EGRESS PLAN		○		○	○
A-200.03	CONSTRUCTION PLAN		○		●	●
A-201.00	CONSTRUCTION PLAN NOTES		○		○	○
A-300.03	REFLECTED CEILING PLAN		○	●	●	●
R -301.03	CEILING COORDINATION PLAN		○	●	●	●
A-322.00	LIGHTING SCHEDULE & SPECIALTY LIGHTING DETAILS		○		○	○
A-323.00	LIGHTING GUIDE		○		○	○
A-400.03	FIXTURE PLAN		○		○	●
A-410.03	FIXTURE SCHEDULE		○		○	●
A-420.03	FIXTURE DETAILS		○		○	●
A-500.03	FINISH PLAN		○		●	●
A-550.00	FINISH PLAN NOTES & GRAPHIC DETAILS		○		○	○
A-551.00	NAVIGATION SIGN & DETAILS		○		○	○
A-600.03	ENLARGED STOREFRONT PLANS AND ELEVATIONS		○	●	●	●
A-601.03	ENLARGED STOREFRONT PLAN, ELEVATION AND DETAILS		○		●	●
A-602.03	STOREFRONT PIERS DETAILS		○	●	○	●
A-603.03	STOREFRONT SECTIONS		○		○	●
A-604.03	STOREFRONT SECTIONS		○		○	●
A-605.03	STOREFRONT SECTIONS		○		○	●
A-606.03	STOREFRONT SECTIONS		○		○	●
A-607.00	SIGNAGE DETAILS		○		○	○
A-608.00	SPECIALTY STORE PANEL & SECURITY PEDESTAL DETAILS		○		○	○
A-609.03	STOREFRONT DETAILS		○		○	●
A-610.03	INTERIOR ELEVATIONS		○		○	●
A-620.03	INTERIOR ELEVATIONS		○		○	●
A-630.03	INTERIOR ELEVATIONS		○		○	●
A-700.00	PARTITION TYPES		○		○	○
A-710.00	FLOOR, COLUMN & MISC. DETAILS		○		○	○
A-711.00	COLUMN DETAILS		○		○	○
A-720.00	CEILING DETAILS		○		○	○
A-730.00	FITTING ROOM AREA #1 PLAN, ELEVATIONS AND DETAILS		○		○	○
A-731.00	FITTING ROOM AREA #2 PLAN, ELEVATIONS AND DETAILS		○		○	○
A-740.03	ENLARGED BACK OF HOUSE PLANS		○		●	●
A-741.03	BOH MILLWORK DETAILS		○		○	●
A-742.00	TOILET ROOM DETAILS & SPECS.		○		○	○
A-743.03	BOH MILLWORK DETAILS		○		○	●
A-800.02	DOOR SCHEDULE		○		●	○
2 A-801.00	DOOR & WALL BASE DETAILS		○		○	○
A-930.00	SPECIFICATIONS				○	○
A-931.00	SPECIFICATIONS				○	○
A-932.00	SPECIFICATIONS				○	○
S-010.00	G.S.N. AND STRUCTURAL DETAILS		○		○	○
S-110.03	OVERALL PLAN		○		○	●
S-120.03	STOREFRONT SECTIONS		○		○	●
S-210.03	SECTIONS		○		○	●
S-220.03	SECTIONS		○		○	●

LIST OF DRAWINGS (CONT'D.)

● REVISED & ISSUED
○ ISSUED

DWG. #	LIST OF DRAWINGS	CLIENT REVIEW (80%) 02.24.16	LANDLORD REVIEW & BID 03.11.16	LL/CLIENT COMMENTS 1 03.21.16	PERMIT / 2 04.01.16	FIELD CONDITIONS 3 04.13.16
M-210.03	HVAC PLAN	○	○	●	●	●
M-300.00	HVAC SCHEDULES	○	○		○	○
M-400.00	HVAC DETAILS	○	○		○	○
M-500.00	MECHANICAL SPECIFICATIONS	○	○		○	○
M-501.00	MECHANICAL SPECIFICATIONS	○	○		○	○
M-600.00	MECHANICAL COMMISSIONING SPECIFICATIONS	○	○		○	○
M-601.00	SYSTEM VERIFICATION CHECKLISTS	○	○		○	○
M-602.00	FUNCTIONAL PERFORMANCE CHECKLISTS	○	○		○	○
P-100.02	ENLARGED PLUMBING PLAN	○	○		●	○
E-001.00	ELECTRICAL LEGENDS, NOTES AND DETAILS	○	○		○	○
E-010.02	LIGHTING FIXTURE SCHEDULE	○	○		●	○
E-011.00	FIRE ALARM RISER, NOTES AND DETAILS	○	○		○	○
E-020.03	PANEL SCHEDULES	○	○		●	●
E-030.02	ELECTRICAL RISER DIAGRAM	○	○		●	○
E-031.00	LIGHTSTAT	○	○		○	○
E-032.00	LIGHTING CONTROLS	○	○		○	○
E-033.03	ENLARGED ELECTRICAL PLANS	○	○		○	●
E-040.03	BACK OF HOUSE ELEVATIONS	○	○		○	●
E-041.03	CASHWRAP ELEVATIONS AND DETAILS	○	○		○	●
E-210.00	GENERAL LIGHTING PLAN	○	○		○	○
E-310.00	TRACK LIGHTING PLAN	○	○		○	○
E-410.03	POWER PLAN	○	○	●	○	●
E-411.03	POWER PLAN CODED NOTES	○	○		○	●
E-412.03	HVAC POWER PLAN	○	○		●	●
E-510.03	AUDIO PLAN	○	○	●	○	●
E-610.03	SECURITY PLAN	○	○		○	●
E-611.03	SECURITY DETAILS	○	○		○	●
E-710.00	FIRE ALARM PLAN	○	○		○	○
E-800.00	ELECTRICAL SPECIFICATIONS	○	○		○	○
E-801.00	ELECTRICAL SPECIFICATIONS	○	○		○	○
E-802.00	ELECTRICAL SPECIFICATIONS	○	○		○	○
FP-210.00	FIRE PROTECTION PLAN	○	○		○	○

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:
1 03.21.16 LL/CLIENT COMMENTS
2 04.01.16 LL/CLIENT COMMENTS
3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

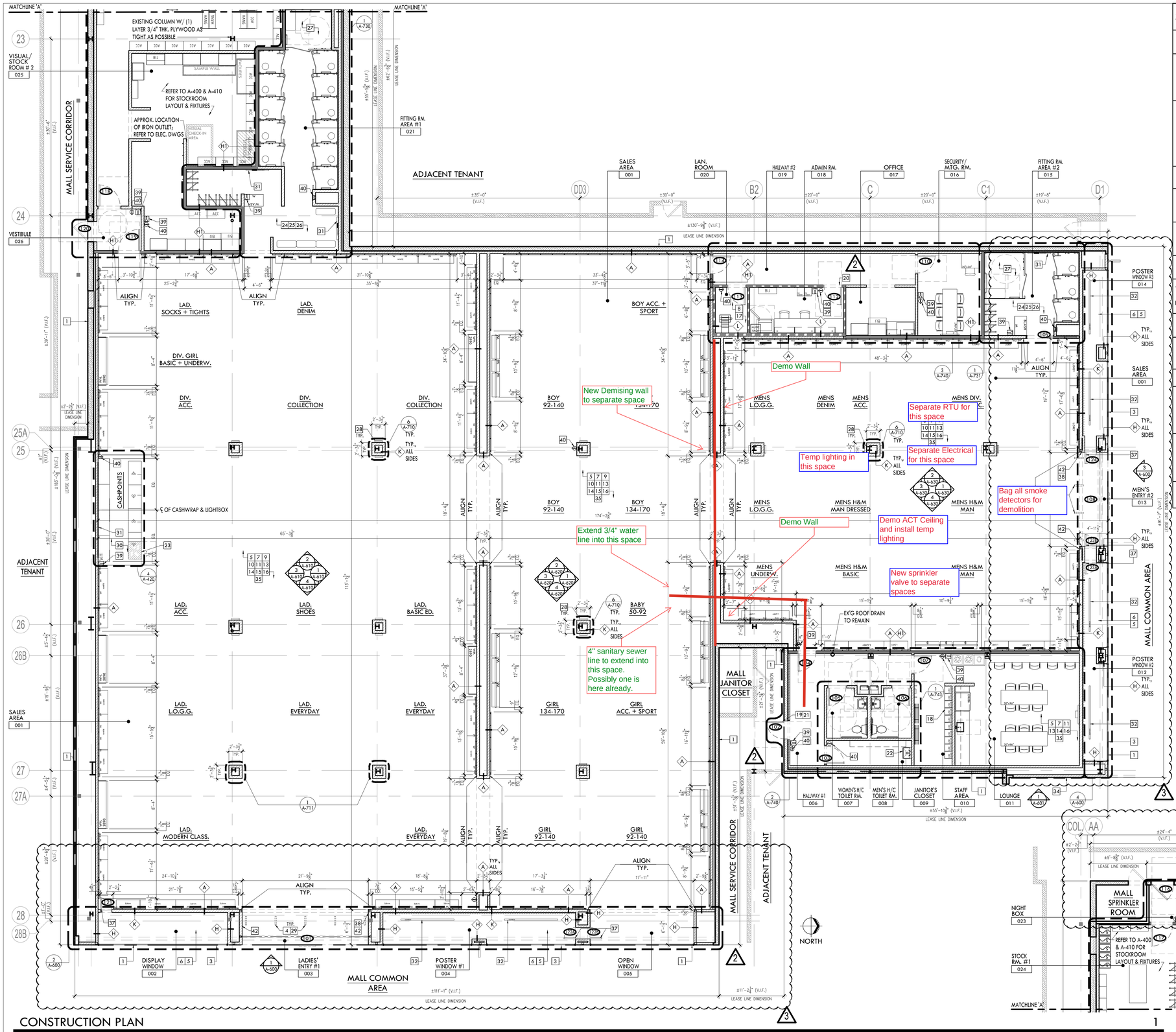
SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:
TITLE SHEET

2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-000.03

DOB NO:



CONSTRUCTION PLAN

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

1

SYMBOL LEGEND

SYMBOL	DESCRIPTION
F.E.1/F.E.2	"F.E.1" DENOTES 10 LBS. UNIT MOUNTED TO WALL W/ HANGER IN BACK OF HOUSE, "F.E.2" DENOTES 10 LBS. UNIT IN RECESSED CABINET CENTERED ON RESPECTIVE WALL-LOCATION OF FIRE EXTINGUISHERS ON PLAN ARE TENANTS MINIMUM REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH TENANTS REPRESENTATIVE AND LOCAL FIRE MARSHALL FOR ADDITIONAL REQUIRED LOCATIONS.
X	PARTITION KEY - SEE SHT. A-700 FOR WALL TYPES
#	DOOR NUMBER - FOR TYPE, REFER TO DWG. A-800 FOR DOOR SCHEDULE
X / XX	ELEVATION TYPE
X / XX	SECTION
X / XX	DETAIL

WALL LEGEND (SEE WALL SECTIONS / PARTITION TYPES ON SHT. A-700.00 FOR MORE INFO.)

SYMBOL	DESCRIPTION
	EXISTING PARTITION TO REMAIN. ALL PARTITIONS SHOWN AS EXISTING TO BE PATCHED AND REPAIRED AS REQ'D TO MAINTAIN REQ'D EXISTING RATING & TO "LIKE NEW" CONDITION.
	NEW NON-RATED PARTITION: REFER TO WALL TAG FOR PARTITION TYPE.
	NEW RATED PARTITION: 3-5/8" MTL. STUDS @ 16" O.C. WITH 5/8" TYPE 'X' GYP. BD. TO U.S. OF STRUCTURE ABOVE. FIRE SEAL AT TOP OF PARTITION AND ALL THROUGH PENETRATIONS TYP. PROVIDE FRT PLYWOOD ON WALLS WHERE REQ'D. REFER TO SHT. A-740 FOR BOH WALL TYPES
	NEW NON-RATED SECURITY PARTITION: 3-5/8" MTL. STUDS @ 16" O.C. WITH 3/4" THK. FRT PLYWOOD STRIPS AND 5/8" TYPE 'X' GYP. BD. (TO U.S. OF STRUCTURE) ON SALES AREA SIDE, 5/8" TYPE 'X' GYP. BD. TO U.S. OF STRUCTURE ABOVE ON OTHER SIDE. REFER TO SHT. A-740 FOR BOH WALL TYPES

NOTE:

SEE SHT. A-201 FOR CONSTRUCTION KEY NOTES & GENERAL NOTES

LANDLORD NOTES:

- DEMISING PARTITIONS MUST BE OF FIRECODE "X" SHEETROCK, TAPED AND SEALED AIRTIGHT TO DECK ABOVE.
- WATERPROOF MEMBRANE MUST BE WATER TESTED AND APPROVED BY ON-SITE OPERATIONS MANAGER.
- FLOOR TRANSITIONS MUST BE FLUSH. VINYL OR RUBBER REDUCER STRIPS NOT PERMITTED IN CUSTOMER AREAS. MAY USE METAL TERRAZZO STRIPS.
- ALL FLOOR PENETRATIONS MUST BE SLEEVED AND SEALED LIQUID TIGHT.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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REVISION:

2 04.01.16 LL/CLIENT COMMENTS
3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:

03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG
SCALE:	AS NOTED

SHEET TITLE:

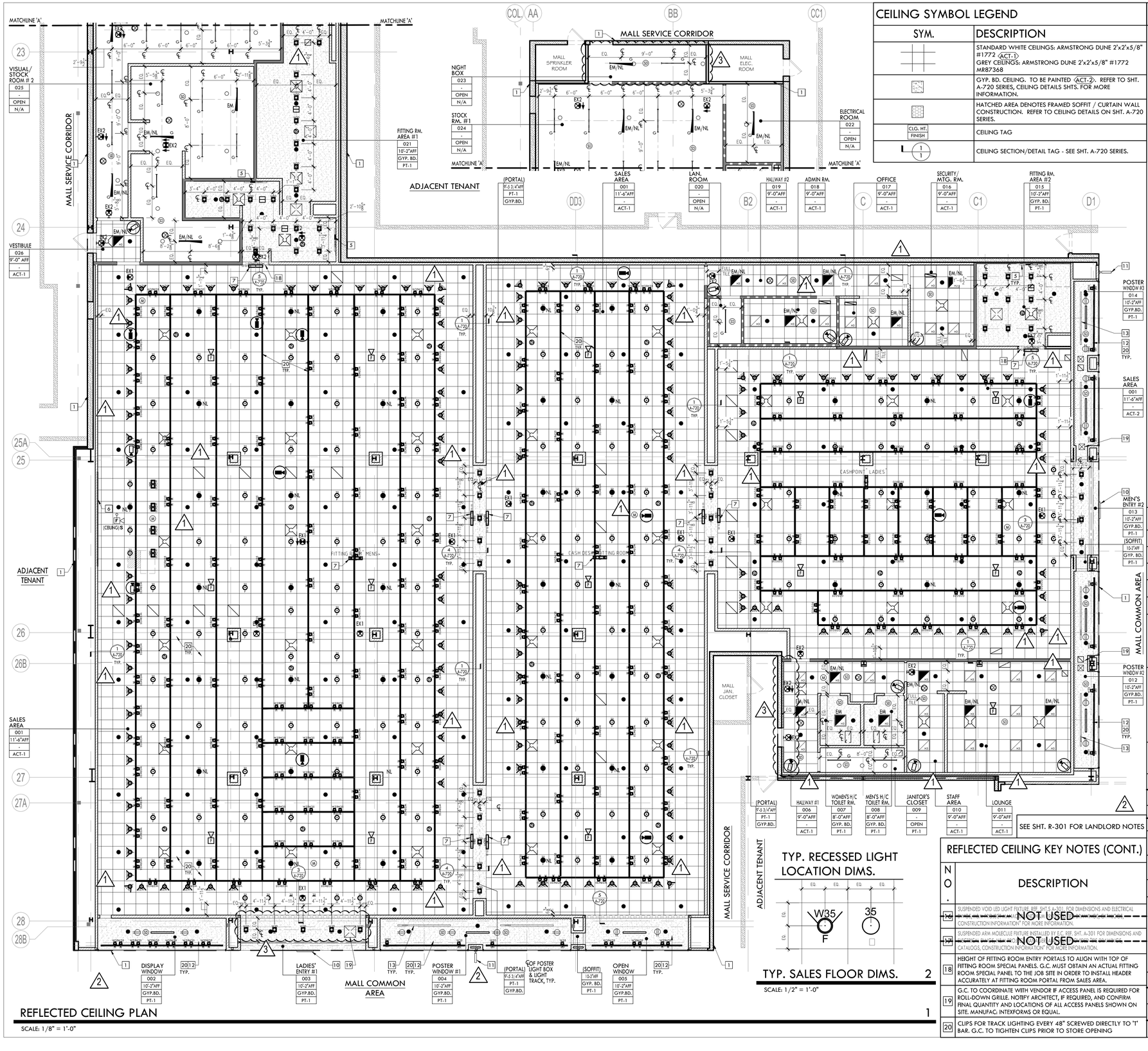
CONSTRUCTION PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:

A-200.03

DOB NO:



REFLECTED CEILING PLAN

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

TYP. RECESSED LIGHT LOCATION DIMS.

TYP. SALES FLOOR DIMS. 2

SCALE: 1/2" = 1'-0"

CEILING SYMBOL LEGEND

SYM.	DESCRIPTION
	STANDARD WHITE CEILINGS: ARMSTRONG DUNE 2'x2'x5/8" #1772 ACT-1 GREY CEILINGS: ARMSTRONG DUNE 2'x2'x5/8" #1772 MR87368
	GYP. BD. CEILING. TO BE PAINTED ACT-2. REFER TO SHT. A-720 SERIES, CEILING DETAILS SHTS. FOR MORE INFORMATION.
	HATCHED AREA DENOTES FRAMED SOFFIT / CURTAIN WALL CONSTRUCTION. REFER TO CEILING DETAILS ON SHT. A-720 SERIES.
CLG. HT. FINISH	CEILING TAG
1/1	CEILING SECTION/DETAIL TAG - SEE SHT. A-720 SERIES.

REFLECTED CEILING GENERAL NOTES

1. GC TO COORDINATE ALL NECESSARY WALL OR CEILING ACCESS PANELS WITH LAYOUT (USE INTEXFORMS ACCESS PANELS, RADIAL CORNERS, 'GRFG'). PROVIDE ACCESS PANEL LAYOUT TO ARCHITECT AND ENGINEER FOR APPROVAL. REFER TO MEP SHEETS FOR MORE INFORMATION. CONFIRM LOCATIONS WITH LANDLORD'S REP. GC TO INCLUDE IN BID QTY. (6) MIN. 24"X24" CONCEALED TYPE IN GYP. BD. CEILINGS.
2. GC TO CLEAN ALL INSTALLED LIGHTING FIXTURES PRIOR TO TURN OVER AS REQUIRED.
3. REFER TO MEP SHEETS FOR FIRE PROTECTION DIRECTION. ALL FIRE PROTECTION SPRINKLER HEADS ARE TO BE PLACED AS TO NOT INTERFERE WITH LIGHTING, HVAC AND STORE FIXTURING COMPONENTS.
4. CEILING GRID IN BACK OF HOUSE SUPPORT OFFICES ARE TO BE HUNG WITH #12 HANGER WIRES (48"O.C.) WITH ADDITIONAL WIRES AT ALL FOUR CORNERS OF ALL LIGHT FIXTURES, DIFFUSERS, ETC.
5. ALL SUSPENDED COMPONENTS ARE TO BE SUSPENDED FROM TOP CHORD OF EXISTING JOISTS. DO NOT ATTACH SUSPENSION ATTACHMENTS FROM METAL ROOF DECKING (IN CONCRETE DECKING USE APPROVED CONCRETE FASTENERS).
6. SUSPENDED ACOUSTICAL CEILING SYSTEM IS TO BE IN COMPLIANCE WITH THE APPLICABLE CODE AND ASTM C 635 AND ASTM C 636.
7. ELECTRICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO MILLWORK/FIXTURES/CASHWRAPS IN FIELD.
8. COORDINATE LIGHTING FIXTURE LOCATIONS AND DIFFUSER LOCATIONS WITH OTHER CEILING COMPONENTS WITH LIGHTING BEING THE DECIDING COMPONENT.
9. SPEAKERS PROVIDED AND INSTALLED BY OTHERS. GENERAL CONTRACTOR TO PROVIDE AND INSTALL: CONDUITS, J-BOXES FOR DJ JACK(S), VOLUME CONTROLS, PULL ALL WIRES AND SPEAKER CANS AS SHOWN ON DRAWINGS. OWNER'S VENDOR TO INSTALL FINAL HOOK UP OF SPEAKERS AND EQUIPMENT. SPEAKER BACK BOXES SUPPLIED BY OWNER'S VENDOR AND INSTALLED BY GC.
10. CONTRACTOR TO PROVIDE COORDINATION DRAWING FOR ALL TRADES INCLUDING SPRINKLER, MECHANICAL, ELECTRICAL, FIRE ALARM, SECURITY, ACCESS PANEL & ETC. IN CEILING FOR ARCHITECT'S APPROVAL PRIOR TO CONSTRUCTION. UNCOORDINATED CONDITIONS THAT ARE CONTRARY TO THE DESIGN INTENT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE.
11. IN THE CASE OF DISCREPANCY BETWEEN THE ARCHITECT'S AND/OR ENGINEER'S DRAWINGS, THE MORE STRINGENT, HIGHER QUANTITY, OR HIGHER QUALITY SHALL PREVAIL. ARCHITECT IS TO BE ADVISED OF ALL DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
12. ALL DIMENSIONS TO BE COORDINATED IN THE FIELD WITH H&M AND ARE SUBJECT TO EXISTING CONDITIONS DIMENSIONS MARKED AS EQUAL (EQ) APPLY ONLY WITHIN A GIVEN STRING OF DIMENSIONS UNLESS OTHERWISE MARKED.
13. ALL SPEAKERS MUST BE FLUSH MOUNT AND FINISHED TO MATCH ADJACENT CEILING FINISH. GC TO COORDINATE WITH SPEAKER CONTRACTOR TO CENTER SPEAKERS BETWEEN LIGHT FIXTURES (ALONG STRAIGHT OR DIAGONAL LINE) AS SHOWN ON PLAN WHEREVER POSSIBLE.
14. ALL CONDUITS TO BE CONCEALED UNLESS OTHERWISE NOTED. LAYOUT FOR ANY EXPOSED ELECTRICAL CONDUIT TO BE APPROVED BY H&M IN FIELD PRIOR TO INSTALLATION.
15. ALL SPRINKLER HEADS TO BE FLUSH MOUNT WITH COVER PLATE AT ALL FINISHED CEILINGS, CENTERED ON LIGHT FIXTURES LAYOUT OR CEILING TILES AS APPLICABLE.
16. REFER TO FINISH FLOOR PLANS FOR FINISH NOTES. GC TO VERIFY ALL CEILING FINISHES WITH H&M PRIOR TO CONSTRUCTION. ALL CEILING ELEMENTS AND DEVICES (LIGHT FIXTURE HOUSINGS AND TRIMS, SPEAKERS, SPRINKLER CAPS, GRILLES, DIFFUSERS, ETC.) SHALL BE PRE-FINISHED OR BE PAINTED OR COLORED THE SAME COLOR AS THE ADJACENT CEILING PAINT. ALL PAINTING SHALL BE COMPLETED OFFSITE. GC TO COORDINATE WITH VENDORS AND SUBCONTRACTORS FOR CORRECT FINISHES AND LONG LEAD ITEMS.
17. ALL VERTICAL ELEMENTS OF SOFFITS TO BE PAINTED TO MATCH ADJACENT COPLANAR WALL PAINT.
18. SPRAY ALL VISIBLE AREA ABOVE GYP. BD. & ACT CEILING BLACK.
19. GC TO PLUG ALL LIGHT LEAKS IN DISPLAY WALLS/FIXTURES.
20. ALL TRIMLESS LIGHTS TO RECEIVE TEAKAWAY BEAD. TRIMLESS LIGHTS TO HAVE SMOOTH, CLEAN EDGES AND ARE TO BE INSTALLED FLUSH WITH ADJACENT CEILING.
21. LIGHT GRID TAKES PRECEDENCE WHEN INSTALLING ALL CEILING ELEMENTS. IF ANY INTERFERENCES OCCUR BETWEEN LIGHT GRID, CEILING DIFFUSERS, SPEAKERS, ETC. THE LIGHT GRID SHALL NOT MOVE. GC SHALL NOTIFY ARCHITECT OF DISCREPANCY. ALL CEILING ELEMENTS TO ALIGN WITH GRID.
22. REFER TO LIGHTING FIXTURE SCHEDULE AND NOTES ON ELECTRICAL DRAWINGS FOR FIXTURE SUPPLY/INSTALLATION RESPONSIBILITIES AND EMERGENCY LIGHTING LOCATIONS.
23. ALL EXPOSED STRUCTURAL STEEL TO BE FIRE-PROOFED PER LOCAL CODES. GC TO REPAIR ALL EXISTING FIREPROFING.
24. GC TO ASSUME CEILING TILES TO BE CENTERED IN ROOM IN BOTH DIRECTIONS, U.N.O.
25. USG GYP. BD. DROPPED CEILING HAS 16" GRID. COORDINATE WITH RECESSED LIGHT FIXTURE LOCATIONS PER INDIVIDUAL AREAS.
26. ALL GYP. BD. CEILINGS NOT MARKED ON THE LAYOUT TO BE PATCHED & PAINTED PT-1. ALL VISIBLE CEILING INSTALLATIONS SUCH AS GRILLES, DIFFUSERS, SPEAKERS, ETC. AT FLOATING CEILING AND PAINTED GWB CEILINGS TO BE PAINTED TO MATCH CEILING COLOR.
27. ALL EXPOSED CONSTRUCTION IN CEILING GAPS TO BE PAINTED PT-2. G.C. TO VISUALLY INSPECT CEILING GAPS FROM ALL POINTS OF LEASED AREA FOR DETERMINATION OF EXTENT OF VISIBLE EXPOSED CONSTRUCTION TO BE PAINTED.
28. FOR ACOUSTIC CEILING TILE, G.C. TO CONTACT TENANT'S VENDOR BELOW FOR H&M'S NATIONAL ACCOUNT.
    MAUREEN M. CONE, NATIONAL ACCOUNT MANAGER
    ARMSTRONG WORLD INDUSTRIES
    (T) 703-389-2701
    (E) MMCONE@ARMSTRONG.COM
29. CEILING CAMERA EQUIPMENT ON SALES AREA TO MATCH ADJACENT CEILING COLOR.

REFLECTED CEILING KEY NOTES

NO.	DESCRIPTION
1	TENANT LEASE LINE. G.C. TO VERIFY IN FIELD.
2	STOREFRONT LEASE LINE AT POP-OUT. G.C. TO VERIFY IN FIELD.
3	HATCHED LIGHT INDICATES EMERGENCY FUNCTION. NL TO INDICATE NIGHT-LIGHT FUNCTION. REFER TO ELECTRICAL SHTS. FOR MORE INFORMATION.
4	CONCEALED EMERGENCY LIGHT HOUSING TO BE PRE-FINISHED WITH PAINT TO MATCH ADJACENT CEILING COLOR. TYP.
5	WALL MOUNTED LIGHT BOX FIXTURE PROVIDED BY OWNER AND INSTALLED BY G.C. G.C. SHALL SUPPLY AND INSTALL ALL ELECTRICAL REQUIREMENTS FOR LIGHT BOX AND ASSOCIATED SIGNAGE. COORDINATE HEIGHT OF J-BOX WITH LIGHT BOX SPECIFICATIONS. LIGHT BOX SIGNAGE IS TO BE PROVIDED BY SIGN CONTRACTOR AND INSTALLED BY G.C. REFER TO SIGNAGE DETAILS SHT, ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGUES, AND CONSTRUCTION INFO" FOR MORE INFO.
6	RECESSED LIGHT BOX FIXTURE PROVIDED BY OWNER AND INSTALLED BY G.C., MOUNTED ON WALL, CENTERED BEHIND CASHPOINTS ABOVE CASHWRAP. SEE SIGNAGE DETAIL SHT. FOR MORE INFO. G.C. TO PROVIDE AND INSTALL IN-WALL F.R.T. PLYWOOD BLOCKING AS REQUIRED. G.C. SHALL SUPPLY AND INSTALL ALL ELECTRICAL REQUIREMENTS FOR LIGHT BOX AND ASSOCIATED SIGNAGE. COORDINATE HEIGHT OF J-BOX WITH LIGHT BOX SPECIFICATIONS. LIGHT BOX SIGNAGE IS TO BE PROVIDED BY SIGN VENDOR AND INSTALLED BY G.C. REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGUES, AND CONSTRUCTION INFORMATION" FOR MORE INFORMATION.
7	ILLUMINATED NAVIGATION SIGN BY TENANT SIGN VENDOR, (CENTERED ABOVE PORTAL OPENING WHERE APPLICABLE). INSTALLED BY E.C. G.C. TO PROVIDE POWER AND BLOCKING. REFER TO DETAIL ON A-322 & SIGNAGE SHOP DRAWINGS FOR MORE INFORMATION.
~~8~~	~~STYLE BAR LIGHT FIXTURE INSTALLED BY E.C. REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGUES, AND CONSTRUCTION INFORMATION". NOTE: STYLE BAR KIDS PENDANTS WILL BE HARDWIRED.~~ NOT USED
~~9~~	~~SUSPENDED PENDANT HALO LIGHT FIXTURE, REF. SHT.S A-301. FOR DIMENSIONS AND ELECTRICAL REQUIREMENTS REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGS, CONSTRUCTION INFORMATION" FOR MORE INFORMATION.~~ NOT USED
10	INTERNALLY ILLUMINATED STOREFRONT SIGN BY SIGN CONTRACTOR. G.C. TO PROVIDE POWER AND BLOCKING. REFER TO STOREFRONT SHTS. AND SIGNAGE SHOP DRAWINGS FOR MORE INFOMATION.
11	INTERNALLY ILLUMINATED STOREFRONT BLADE SIGN BY SIGN CONTRACTOR. G.C. TO PROVIDE POWER AND BLOCKING. REFER TO STOREFRONT SHTS. AND SIGNAGE SHOP DRAWINGS FOR MORE INFORMATION. TYP. SEE PLAN FOR LOCATIONS.
12	REFER TO STOREFRONT SECTION SHTS. FOR POSITION OF TRACK LIGHTS IN STOREFRONT DISPLAY AND POSTER WINDOWS.
13	LIGHT BOX FIXTURE PROVIDED BY SIGN VENDOR AND INSTALLED BY G.C. MOUNTED ON PODIUM/LOW WALL. PODIUM/LOW WALL BY G.C. SEE SIGNAGE DETAIL SHT. FOR MORE INFO. G.C. TO PROVIDE AND INSTALL IN-WALL F.R.T. PLYWOOD BLOCKING AS REQUIRED. G.C. SHALL SUPPLY AND INSTALL ALL ELECTRICAL REQUIREMENTS FOR LIGHT BOX AND ASSOCIATED SIGNAGE. COORDINATE HEIGHT OF J-BOX WITH LIGHT BOX SPECIFICATIONS AND LIGHTBOX SIGN SWITCH WITH SIGN VENDOR. LIGHT BOX IS TO BE PROVIDED BY SIGN VENDOR AND INSTALLED BY G.C. REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGUES, AND CONSTRUCTION INFORMATION" FOR MORE INFORMATION.
~~14~~	~~LINEAR LED TUBES LIGHT FIXTURE INSTALLED BY E.C. REF. SHT. A-301. FOR DIMENSIONS AND ELECTRICAL REQUIREMENTS REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGS, CONSTRUCTION INFORMATION" FOR MORE INFORMATION.~~ NOT USED
~~15~~	~~SUSPENDED MINI HALO LIGHT FIXTURE INSTALLED BY E.C., REF. SHT. A-301. FOR DIMENSIONS AND ELECTRICAL REQUIREMENTS REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGS, CONSTRUCTION INFORMATION" FOR MORE INFORMATION.~~ NOT USED

REFLECTED CEILING KEY NOTES (CONT.)

NO.	DESCRIPTION
~~16~~	~~SUSPENDED VOID LED LIGHT FIXTURE, REF. SHT.S A-301. FOR DIMENSIONS AND ELECTRICAL REQUIREMENTS REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGS, CONSTRUCTION INFORMATION" FOR MORE INFORMATION.~~ NOT USED
~~17~~	~~SUSPENDED ARM MOLECULE FIXTURE INSTALLED BY E.C. REF. SHT. A-301 FOR DIMENSIONS AND ELECTRICAL REQUIREMENTS REFER TO ELECTRICAL DRAWINGS, H&M PROJECT MANAGER, AND H&M PROVIDED "IPS DRAWINGS, CATALOGS, CONSTRUCTION INFORMATION" FOR MORE INFORMATION.~~ NOT USED
18	HEIGHT OF FITTING ROOM ENTRY PORTALS TO ALIGN WITH TOP OF FITTING ROOM SPECIAL PANELS. G.C. MUST OBTAIN AN ACTUAL FITTING ROOM SPECIAL PANEL TO THE JOB SITE IN ORDER TO INSTALL HEADER ACCURATELY AT FITTING ROOM PORTAL FROM SALES AREA.
19	G.C. TO COORDINATE WITH VENDOR IF ACCESS PANEL IS REQUIRED FOR ROLL-DOWN GRILLE. NOTIFY ARCHITECT, IF REQUIRED, AND CONFIRM FINAL QUANTITY AND LOCATIONS OF ALL ACCESS PANELS SHOWN ON SITE. MANUFAC: INTEXFORMS OR EQUAL.
20	CLIPS FOR TRACK LIGHTING EVERY 48" SCREWED DIRECTLY TO 'T' BAR. G.C. TO TIGHTEN CLIPS PRIOR TO STORE OPENING

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:
1 03.21.16 LL/CLIENT COMMENTS
2 04.01.16 LL/CLIENT COMMENTS
3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG
SCALE:	AS NOTED

SHEET TITLE:
REFLECTED CEILING PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-300.03

DOB NO:

LANDLORD NOTES

- SUPPORT WIRES FOR LAY-IN CEILING GRID MUST NOT BE CONNECTED TO ANY OF THE LANDLORD'S MECHANICAL, ELECTRICAL, PLUMBING OR FIRE PROTECTION PIPING OR EQUIPMENT.
- ACCESS PANELS IN CEILING MUST BE LOCATED TO PROVIDE ACCESS TO LANDLORD'S MECHANICAL EQUIPMENT PER LOCAL GENERAL GROWTH AUTHORITY.
- SPRINKLER HEADS AT GYPSUM BOARD CEILINGS MUST BE FULLY RECESSED AND COVERED WITH METAL PLATES FINISHED TO MATCH ADJACENT SURFACE. CENTER SPRINKLER HEADS IN CEILING TILES WHERE APPLICABLE.

2

MATCHLINE 'A'

MALL SERVICE CORRIDOR

MALL SPRINKLER ROOM

MALL ELEC. ROOM

ADJACENT TENANT

VISUAL/ STOCK ROOM # 2 | 025 | - | OPEN | N/A

NIGHT BOX | 023 | - | OPEN | N/A

STOCK RM. #1 | 024 | - | OPEN | N/A

FITTING RM. AREA #1 | 021 | 10'-2"AFF | GYP. BD. | PT-1

ELECTRICAL ROOM | 022 | - | OPEN | N/A

(PORTAL) | 9'-5 3/4"AFF | PT-1 | GYP.BD.

SALES AREA | 001 | 11'-6"AFF | - | ACT-1

LAN. ROOM | 020 | - | OPEN | N/A

HALLWAY #2 | 019 | 9'-0"AFF | - | ACT-1

ADMIN RM. | 018 | 9'-0"AFF | - | ACT-1

OFFICE | 017 | 9'-0"AFF | - | ACT-1

SECURITY/ MTG. RM. | 016 | 9'-0"AFF | - | ACT-1

FITTING RM. AREA #2 | 015 | 10'-2"AFF | GYP. BD. | PT-1

VESTIBULE | 026 | 9'-0" AFF | - | ACT-1

POSTER WINDOW #3 | 014 | 10'-2"AFF | GYP.BD. | PT-1

SALES AREA | 001 | 11'-6"AFF | - | ACT-2

MEN'S ENTRY #2 | 013 | 10'-2"AFF | GYP.BD. | PT-1

(SOFFIT) | 10'-2"AFF | GYP. BD. | PT-1

MALL COMMON AREA

POSTER WINDOW #2 | 012 | 10'-2"AFF | GYP.BD. | PT-1

MALL JAN. CLOSET

(PORTAL) | 9'-5 3/4"AFF | PT-1 | GYP.BD.

HALLWAY #1 | 006 | 9'-0"AFF | - | ACT-1

WOMEN'S H/C TOILET RM. | 007 | 8'-0"AFF | GYP. BD. | PT-1

MEN'S H/C TOILET RM. | 008 | 8'-0"AFF | GYP. BD. | PT-1

JANITOR'S CLOSET | 009 | - | OPEN | PT-1

STAFF AREA | 010 | 9'-0"AFF | - | ACT-1

LOUNGE | 011 | 9'-0"AFF | - | ACT-1

MALL SERVICE CORRIDOR

ADJACENT TENANT

SALES AREA | 001 | 11'-6"AFF | - | ACT-1

DISPLAY WINDOW | 002 | 10'-2"AFF | GYP.BD. | PT-1

LADIES' ENTRY #1 | 003 | 10'-2"AFF | GYP.BD. | PT-1

MALL COMMON AREA

POSTER WINDOW #1 | 004 | 10'-2"AFF | GYP.BD. | PT-1

(PORTAL) | 9'-5 3/4"AFF | PT-1 | GYP.BD.

(SOFFIT) | 10'-2"AFF | GYP. BD. | PT-1

OPEN WINDOW | 005 | 10'-2"AFF | GYP.BD. | PT-1

CEILING COORDINATION PLAN

1

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

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
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CEILING COORDINATION PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
R-301.03

DOB NO:

LIGHTING LEGEND

SYMBOL	DESCRIPTION & TYPE	GLOBAL ARTICLE #	LAMP	FURN. BY G.C.	FURN. BY TEN.	REMARKS
G	8" DOWNLIGHT, PATHWAY LTG, COVENTRY SERIES 8VF1-421-E4-EMITS-AR81-SCLPF	NOT USED	42W		●	
G	DOWNLIGHT, INT, 42W, CFL, ONE 5G, FROST	NOT USED	26W		●	
W	DOWNLIGHT, MT, 35W, COLORLESS, FLOOD	102087-01	35W		●	
W M	DOWNLIGHT, MT-T, 35W, COLORLESS, MEDIUM	102599-01	35W, MEDIUM		●	
W N	DOWNLIGHT, MT, 35W, COLORLESS, NARROW	NOT USED	35W, NARROW		●	
	LIGHTTRACK AND ALL RELATED ACCESSORIES, FEEDS, CONNECTORS	102412-01			●	CLIPS FOR TRACK LIGHTING EVERY 48" SCREWED DIRECTLY TO 'I' BAR. G.C. TO TIGHTEN CLIPS PRIOR TO STORE OPENING
	LIGHTTRACK AND ALL RELATED ACCESSORIES, FEEDS, CONNECTORS	102473-01			●	
	LIGHTTRACK AND ALL RELATED ACCESSORIES, FEEDS, CONNECTORS	103420-01			●	
BLUE 1.5W	STYLEBAR, MICRO, MT, 5 PCS, BLUE	NOT USED			●	
YELLOW 1.5W	STYLEBAR, MICRO, MT, 5 PCS, YELLOW	NOT USED			●	
PURPLE 1.5W	STYLEBAR, MICRO, MT, 5PCS, PURPLE	NOT USED			●	
W	WALL WASHER, MT-T, 35W, WHITE, FLOOD	NOT USED	20W		●	
W	WALL WASHER, MT-T, 35W, WHITE, FLOOD	109035-01	35W		●	
W	WALL WASHER, MT-T, 35W, GREY, FLOOD	NOT USED	20W		●	
W	WALL WASHER, MT-T, 35W, GREY, FLOOD	109062-01	35W		●	
N	SPOTLIGHT, MT-C, 35W, WHITE, NARROW	111129-01	35W, NARROW		●	
M	SPOTLIGHT, MT-C, 35W, WHITE, MEDIUM	111130-01	35W, MEDIUM		●	
M	SPOTLIGHT, MT-C, 35W, GREY, MEDIUM	111278-01	35W, MEDIUM		●	
N	SPOTLIGHT, MT-C, 35W, GREY, NARROW	111279-01	35W, NARROW		●	
W	SPOTLIGHT, MT-C, 35W, DIA90, WF, WHITE	133448-01	35W		●	
G35 WF	SPOTLIGHT, MT, MC, 35W, DIM, G35, WF, GREY	NOT USED	35W		●	
A	MINI LED, MT, 2x3.5G, 6W, 350K, WH	NOT USED	7.5W		●	
B	MINI LED, MT, 2x4.7G, 8W, 3K, WH	NOT USED	9.5W		●	
C	MINI LED, MT, 2x6, 800, 11W, 350K, WH	NOT USED	11.4W		●	
D	MINI LED, MT, 2x6, 1200, 13W, 350K, WH	NOT USED	15W		●	
E	MINI LED, MT, 2x9, 1200, 15W, 350K, WH	NOT USED	19.5W		●	
S	PENDENT, MT, LED, E27, SL WIR, MIN	NOT USED	8W		●	
	LED GSA, MT	NOT USED			●	HALO PENDANT SUPPLIED BY OTHERS INSTALLED BY G.C.
S S	SURF MOUNTED, MT, LEVEL, LED, E27, 2x20, 40W, SWITCH	NOT USED			●	
	MINI LED, SLIM TUBE, DIA 36, 12.5W	NOT USED			●	
	MINI LED, MT, LED TUBE, G/G13, 5	NOT USED			●	
S	SUSP, VOID, LED, E27, 230V, L1500, 1 RW, SH ST	NOT USED			●	
	CORNER W/ MOTION SENSOR, INCL LIGHT SOURCE, 3000K, CHROME DOOR, GREY	NOT USED	T5, 29W		●	FITTING ROOM LIGHTS
W35 M	REC, FIX, T1, GU6.5, 220-240V, DIA90, 35W, M, WH	150986-01	35W, MEDIUM		●	
W20 M	REC, FIX, T1, GU6.5, 220-240V, DIA90, 20W, M, WH	150981-01	20W, MEDIUM		●	E.C. TO ADJUST TO VERIFY FIXT. IS FLUSH
2x35 M	REC, P-O, T2, GU6.5, 220-240V, DIA90, 2x35W, M+N, GR	NOT USED			●	
2x20 M	REC, P-O, T2, GU6.5, 220-240V, DIA90, 2x35W, M+N, WH	150800-01			●	
S M S M	DOWNLIGHT, LED, TILT, 2X4, RW, WHITE, MEDIUM	NOT USED	8W		●	
LIGHT BOX	LED LIGHT BOX, 2-SECTION, H1200, 240W, AL	NOT USED			●	ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL T5 LIGHTS
LIGHT BOX	LED LIGHT BOX, 4-SECTION, H1200, 480W, AL	153247-01			●	ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL T5 LIGHTS
LIGHT BOX	LED LIGHT BOX, A-AREA, H1800, 160W, AL	153251-01			●	ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL T5 LIGHTS
LIGHT BOX	LED LIGHT BOX, FACADE, H2200, 480W, AL	153252-01			●	ELECTRICAL CONTRACTOR TO SUPPLY & INSTALL T5 LIGHTS
G	1' X 4' FLUORESCENT LIGHTING CFI# FLUORESCENT OPEN INDUSTRIAL FF248-SO 120V ELECTRONIC BALLAST 2x32 WATT T8 LAMPS, 3500K	F32T8/830 /ALTO		●		FIXTURES SUSPENDED AT 11'-0" A.F.F. PROVIDE HANGERS AND CHAINS AS REQUIRED
NS	RECESSED 2' X 2' FLUORESCENT LIGHTING SEE ENGINEER'S DRAWINGS FOR SPECIFICATION			●		"NL" DENOTES NIGHT LIGHT
	SURFACE MOUNTED FLUORESCENT LIGHTING. SEE ENGINEER'S DRAWINGS FOR SPECIFICATION	NOT USED			●	
M1	RECESSED EMERGENCY LIGHTING HEAD RSTH19-WHMR16-20W-24VDC LUMACELL			●		PRE-FINISHED TO MATCH ADJACENT CEILING COLOR
EX1 G	RECESSED EDGELIT LED, LER 2000FT SERIES, WHITE BACKGROUND AND RED LETTERS FROM LUMACELL WALL MOUNTED			●		SEE ENGINEER'S DRAWINGS.
EXT	RECESSED EDGELIT LED, LER 2000FT SERIES, WHITE BACKGROUND AND RED LETTERS FROM LUMACELL CEILING MOUNTED			●		SEE ENGINEER'S DRAWINGS
EX2	RECESSED EDGELIT LED, LER 2000FT SERIES, WHITE BACKGROUND AND RED LETTERS FROM LUMACELL CEILING MOUNTED			●		SEE ENGINEER'S DRAWINGS
EX2	RECESSED EDGELIT LED, LER 2000FT SERIES, WHITE BACKGROUND AND RED LETTERS FROM LUMACELL CEILING MOUNTED			●		SEE ENGINEER'S DRAWINGS
	WALL MOUNTED STORE GUIDE	NOT USED			●	PROVIDED BY VENDOR AND INSTALLED BY G.C.
B A	ILLUMINATED NAV. SIGNS, WALL MOUNTED ABOVE PORTALS				●	ELECTRICAL FEED AND SIGN INSTALLATION BY E.C.
B C CEILING	ILLUMINATED NAV. SIGNS, CEILING MOUNTED ABOVE PORTALS				●	ELECTRICAL FEED AND SIGN INSTALLATION BY E.C.

LIGHTING FIXTURE SCHEDULE NOTES

1. FIXTURE AND LAMP(S) FURNISHED BY H&M, AND INSTALLED AND WIRED BY E.C.:
   (TYPES B2, B3, B4, B5, C, DLS, E, E1, E2, E3, E4, E5, F, F2, FL, FM, FN, 1, 12, 13, J, K, L, L6, L5, L4, L3, L2, L1, N, N1, N2, PH, P1, P2, PL, R1, R2, R3, R4, R5, R6, R7, R8, TM, M1, M2, TW, TG, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T11, T12, T13, V, V2, V3, WW, WWL, WG, WGL, WL, WH1, WH2, WH3)
2. VERIFY INSTALLATION LOCATION WITH H&M REP. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID, THE LABOR COST TO INSTALL TRACK FIXTURES AND TRACK FIXTURES AND TRACK HEADS ARRANGED PER CURRENT LIMITER SIZE. GC SHALL FIELD CUT TRACK AS REQUIRED.
3. LIGHT FIXTURES, EXIT SIGNS, AND LAMP(S) FURNISHED, INSTALLED AND WIRED BY GC. ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE:

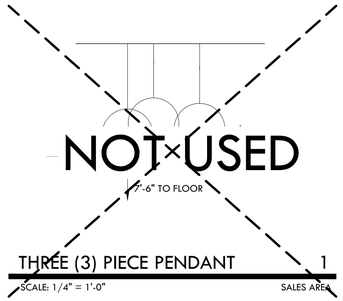
   TYPE G, G1, H, HS, H1, H1S, H2: LITHONIA, METALUX, DAY-BRITE, HUBBELL
   TYPE EX1, EX2, EM, TP, T: SURELITES, EMERGI-LITE, LITHONIA
   TYPE EM1, EM2, EM3, EM4: SPECIFIED FIXTURE ONLY
4. SHADED SALES LIGHT FIXTURES AND HALF-SHADED NON-SALES LIGHT FIXTURES ON THE E200 SERIES DRAWINGS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BALLAST.
5. GC SHALL FURNISH AND INSTALL ALL MOUNTING AND SUPPORT HARDWARE AS REQUIRED FOR OWNER FURNISHED FIXTURE TYPE WL, WH1, WH2, WH3, ALL GC FURNISHED FIXTURES.
6. GC SHALL REFER TO TENANT PROVIDED "STANDARDS PACKAGE" FOR ADDITIONAL AND UP-TO-DATE LIGHT FIXTURE INFORMATION. THE H&M HOW-TO-LIGHT AND HOW-TO-BUILD CATALOGUES SHALL SUPPLEMENT THIS DRAWING SET. ELECTRICAL CONTRACTOR SHALL VERIFY THIS PACKAGE WAS RECEIVED PRIOR TO BID.

RCP COORDINATION LEGEND

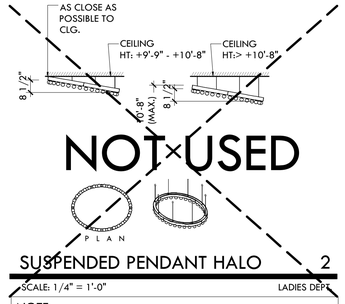
SYMBOL	DESCRIPTION
M	MOTION DETECTOR
OC	OCCUPANCY SENSOR
SD	SMOKE DETECTOR
F	FIRE ALARM AUDIO/VISUAL DEVICE
	WALL MOUNTED EMERGENCY FIXTURE
	CEILING MOUNTED EMERGENCY FIXTURE
M1	CONCEALED EMERGENCY FIXTURE
M	SPEAKER
	CAMERA
	CONCEALED SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SUPPLY DIFFUSER
	RETURN OR EXHAUST GRILLE
	LINEAR SLOT DIFFUSER - NOT USED
C	PEOPLE VIEW MONITOR - CEILING MOUNTED
W	PEOPLE VIEW MONITOR - WALL MOUNTED

NOTE:
U.S. OF DECK: ±16'-7" & 18'-0" (V.I.F.)

NOTE:
G.C. TO PROVIDE BLOCKING ABOVE CEILING, AS REQUIRED, FOR ALL CEILING MOUNTED SPECIALTY LIGHTING FIXTURES, UNLESS OTHERWISE NOTED

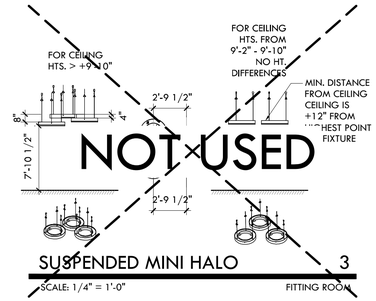


THREE (3) PIECE PENDANT 1
SCALE: 1/4" = 1'-0" SALES AREA

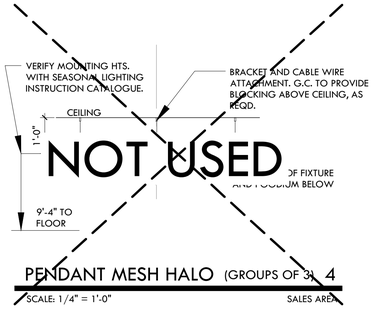


SUSPENDED PENDANT HALO 2
SCALE: 1/4" = 1'-0" LADIES DEPT.

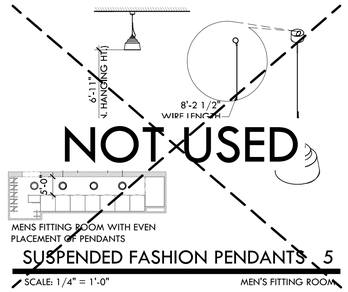
NOTE:
1. HIGHER END OF HALO TO FACE STOREFRONT (TYP.) VERIFY WITH IPS AND H&M GUIDELINES PRIOR TO INSTALLATION.
2. FASTEN TO CEILING WITH "ARAKAWA HANGING SYSTEMS." PRODUCT # MF355. G.C. TO PROVIDE BLOCKING ABOVE CEILING, AS REQD.



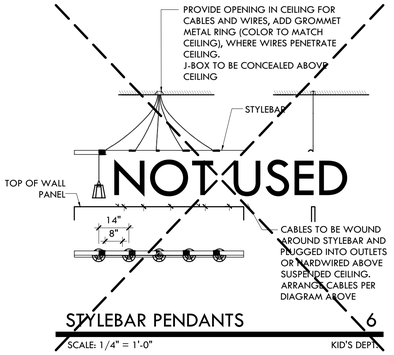
SUSPENDED MINI HALO 3
SCALE: 1/4" = 1'-0" FITTING ROOM



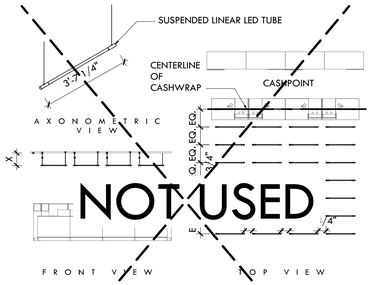
PENDANT MESH HALO (GROUPS OF 3) 4
SCALE: 1/4" = 1'-0" SALES AREA



MENS FITTING ROOM WITH EVEN PLACEMENT OF PENDANTS
SUSPENDED FASHION PENDANTS 5
SCALE: 1/4" = 1'-0" MEN'S FITTING ROOM

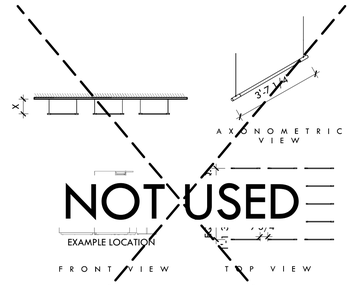


STYLEBAR PENDANTS 6
SCALE: 1/4" = 1'-0" KID'S DEPT.



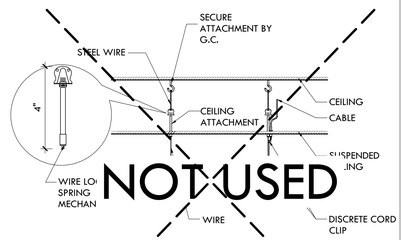
X = 4" FOR CEILING HTS. 8'-6" TO 9'-10"
X = 11 3/4" FOR CEILING HTS. 9'-2 1/4" TO 11'-6"
X = 19 5/8" FOR CEILING HTS. 11'-6 1/4" TO 13'-2"
X = 27 1/2" FOR CEILING HTS. 13'-2 1/4" TO 14'-9"

LINEAR LED TUBE - CASHPOINT 7
SCALE: 1/4" = 1'-0" YOUNG FASHION PROFILE DEPT.

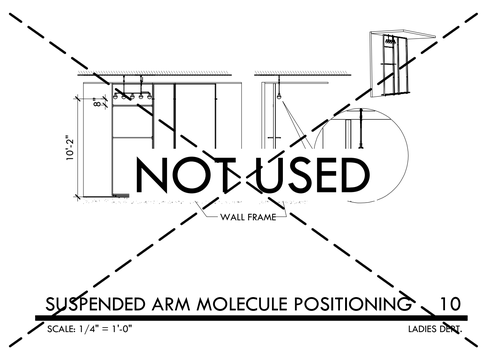


X = 4" FOR CEILING HTS. 8'-6" TO 9'-10"
X = 11 3/4" FOR CEILING HTS. 9'-2 1/4" TO 11'-6"
X = 19 5/8" FOR CEILING HTS. 11'-6 1/4" TO 13'-2"
X = 27 1/2" FOR CEILING HTS. 13'-2 1/4" TO 14'-9"

LINEAR LED TUBE A - AREA 8
SCALE: 1/4" = 1'-0" YOUNG FASHION PROFILE DEPT.



SUSPENDED ARM MOLECULE 9
SCALE: 1/4" = 1'-0" LADIES DEPT.



SUSPENDED ARM MOLECULE POSITIONING 10
SCALE: 1/4" = 1'-0" LADIES DEPT.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:
LIGHTING SCHEDULE & SPECIALTY LIGHTING DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-322.00

DOB NO:

H&M Lighting Guide
SS14

HM Article Number	Image	Description	Nordic Light Ref Number	Reflector Type	Previous Article #
110932-01		Tubix 35E, Medium, Grey, 1-C	*155-7011-30*	Medium	
110931-01		Tubix 35E, Spot, Grey, 1-C	*155-7001-30*	Spot	
116626-01		Tubix 35E, Flood, White, 1-C	*155-7021-10*	Flood	
110916-01		Tubix 35E, Medium, White, 1-C	*155-7011-10*	Medium	
110915-01		Tubix 35E, Spot, White, 1-C	*155-7001-10*	Spot	
137176-01		Tubix 50E, Spot, Grey, 1-C, +Honey comb filter	*155-7031-30 + 155-54*	Spot	
137175-01		Tubix 50E, Spot, White, 1-C, +Honey comb filter	*155-7031-10 + 155-54*	Spot	
124679-01		Tubix 50E, Spot, White, 1-C,	*155-7031-10*	Spot	
124678-01		Tubix 50E, Medium, White, 1-C,	*155-7041-10*	Medium	
133444-01		Tubix 50E, Wide Flood, White, 1-C,	*155-7051-10*	Wide Flood	
110928-01		TUBE 20E, Grey, Medium, Lamp included, 1-C	*086-7011-30*	Medium	
110927-01		TUBE 20E, Grey, Spot, Lamp included, 1-C	*086-7001-30*	Spot	
116625-01		TUBE 20E, White, Flood, Lamp included, 1-C	*086-7021-10*	Flood	
110912-01		TUBE 20E, White, Medium, Lamp included, 1-C	*086-7011-10*	Medium	
110911-01		TUBE 20E, White, Spot, Lamp included, 1-C	*086-7001-10*	Spot	
110913-01		TUBE 20E, White, Spot, Lamp included, 1-C, 2700K	*086-7051-10*	Spot	
110914-01		TUBE 20E, White, Medium, Lamp included, 1-C, 2700K	*086-7061-10*	Medium	
143817-01		CON-TECH 4" Recessed LED Wall Washer	*RA4LNC-230K-12D2-W / CTR4323L-WHT*	Wall Wash	103625-01
109079-01		PATHWAY 42W CFL EM DOWNLIGHT WITH INTERNAL TEST SWITCH	*8VF142TE4IEM / AR81SCLPFITS*		

H&M Lighting Guide
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HM Article Number	Image	Description	Nordic Light Ref Number	Reflector Type	Previous Article #
132175-01		VECTOR KIT H&M, 1800mm,3000K, White, 132 degree Angle consists of: (1*Secondary Cable), (1*3.69' LED Strip), (4*Tilt Bracket), (1*2.46' LED Strip), (1*End Cap).	*123-593-10*		
132178-01		VECTOR KIT H&M, 2425mm,3000K, White, 132degree Angle consists of: (1*1.64' LED Strip), (1*2.46' LED Strip), (1*3.69' LED Strip), (1*Secondary Cable), (6*Tilt Bracket), (1*End Cap)	*123-594-10*		
132169-01		VECTOR KIT H&M, 550mm, 3000K, 132 degree angle, White consists of: (1*1.64' LED Strip), (2*Tilt Bracket), (1*Secondary Cable), (1*End Cap)	*123-595-10*		
144149-01		VECTOR KIT H&M HD, 4*1800mm,3000K,White, with Magnetic tape incl. Gears.consists of: (2*NLP LED 60E incl. Primary cable), (4*Secondary Cable), (4*2.46' HD LED Strip with magnetic tape), (4*3.28' HD LED Strip with magnetic tape), (2*6-Way Splitter), (4*End Cap)	*123-583-10*		130067-01
134489-01		VECTOR KIT H&M HD, 550mm,3000K, White, 132 degree Angle. consists of: (1*Secondary Cable), (1*1.64' HD LED Strip), (2*Tilt Bracket), (1*End Cap)	*123-584-10*		
134490-01		VECTOR KIT H&M HD , 1175mm, 3000K, White. consists of:(1*Secondary Cable), (1*3.69' HD LED Strip), (2*Clip Bracket), (1*End Cap)	*123-585-10*		
134491-01		VECTOR KIT H&M HD, 1800mm,3000K, White. consists of:(1*3.28' HD LED Strip), (1*Secondary Cable), (1*2.46' HD LED Strip), (4*Clip Bracket), (1*End Cap)	*123-603-10*		
134493-01		VECTOR KIT H&M HD, 2425mm,3000K, White. consists of:(1*4.10' HD LED Strip), (1*Secondary Cable), (1*3.69' HD LED Strip), (4*Clip Bracket), (1*End Cap)	*123-586-10*		
122143-01		Vector 19 HD (L=500mm) (C-C 25mm) 3500K	*123-160*		
122144-01		Vector 29 HD (L=750mm) (C-C 25mm) 3500K	*123-161*		
122145-01		Vector 39 HD (L=1000mm) (C-C 25mm) 3500K	*123-162*		
122146-01		Vector 49 HD (L=1250mm) (C-C 25mm) 3500K	*123-164*		
122147-01		Vector 59 HD (L=1500mm) (C-C 25mm) 3500K	*123-165*		
116195-01		Light gap LED holder, White	*123-191-10*		
114098-01		Complete holder Vector HD for child panel	*123-204*		
110850-01		Track, 1-Circuit, 8ft, Grey	*135-22-30*		
110807-01		Track, 1-Circuit, 8ft, White	*133-22-10*		
110859-01		Susp. Clip for t-bar drop ceiling, Grey	*047-227-30*		
110822-01		Susp. Clip for t-bar drop ceiling, White	*047-227-10*		

H&M Lighting Guide
SS14

HM Article Number	Image	Description	Nordic Light Ref Number	Reflector Type	Previous Article #
143704-01		Vega 39W, Spot, Colourless	*170-700-92*	Spot	109341-01
143110-01		Apex 20W with Flood Chrome Reflector	*Housing: 082-07 Trim: 082-02-91*	Flood	102596-01
143113-01		Apex 35W with Flood Chrome Reflector	*Housing: 082-08 Trim: 082-02-91*	Flood	102087-01
143121-01		Apex 35W with Medium Chrome Reflector	*Housing: 082-08 Trim: 082-12-91*	Medium	102599-01
143119-01		Apex 50W with Spot Chrome Reflector	*Housing: 082-09 Trim: 082-10-91*	Spot	124691-01
144137-01		OPUS I 20E, Complete fixture, Medium, All White, With front rim	*134-704-10*	Medium	116674-01
133453-01		MIRACLE I 20E Complete fixture, All White, flood With front rim	*131-762-10*	Flood	
133528-01 (same as 144165-01)		MIRACLE II 20E, Complete fixture, Spot+medium, All White, With front rim	*131-770-10-S+M*	Spot+Medium	
144176-01		MIRACLE II 35E, Complete fixture, Medium, All Grey, With front rim	*131-731-30*	Medium	118494-01
144168-01		MIRACLE II 35E, Complete fixture, Medium, All White, With front rim	*131-731-10*	Medium	116877-01
144188-01		MIRACLE II 35E, Complete fixture, Spot, All White, With front rim	*131-730-10*	Spot	117021-01
144181-01		MIRACLE II 35E, Complete fixture, Spot, All Grey, With front rim	*131-730-30*	Spot	118274-01
144262-01		MIRACLE I 35E, Complete fixture, All White, With front rim	*131-709-10*	Spot	117050-01
144267-01		MIRACLE I 35E, Complete fixture, All White, With front rim	*131-710-10*	Medium	117052-01

H&M Lighting Guide
SS14

HM Article Number	Image	Description	Nordic Light Ref Number	Reflector Type	Previous Article #
110856-01		End feed left, grey, 1-Circuit	*135-12-30*		
110815-01		End feed left, white, 1-Circuit	*135-12-10*		
110857-01		End feed right, grey, 1-Circuit	*135-13-30*		
110816-01		End feed right, white, 1-Circuit	*135-13-10*		
110852-01		Flex feed, grey, 1-Circuit	*135-07-30*		
110844-01		Flex feed, white, 1-Circuit	*135-07-10*		
110855-01		L-feed, grey, 1-Circuit	*135-09-30*		
110814-01		L-feed, white, 1-Circuit	*135-09-10*		
110851-01		Mini connector, grey, 1-Circuit	*135-14-30*		
110811-01		Mini connector, white, 1-Circuit	*135-14-10*		
136914-01		I-Feed, Grey	*135-08-30*		
136913-01		I-Feed, White	*135-08-10*		
110864-01		Reinforcement plate RIP, 1-Circuit	*135-76*		
110863-01		RIP for wire suspension, 1-Circuit	*135-80*		
110865-01		Suspension wire kit 4M (13ft), 1-Circuit	*CCSW4-A*		
110866-01		Suspension wire kit 6M (19ft), 1-Circuit	*CCSW6-A*		
110817-01		Track clip white for threaded rod/wire White	*047-180*		
110860-01		Suspension hook, grey, 1-Circuit	*135-98-30*		
110824-01		Suspension hook, White, 1-Circuit	*135-98-10*		
110853-01		T-feed, left, grey, 1-Circuit	*135-10-30*		
110812-01		T-feed, left, white, 1-Circuit	*135-10-10*		
110854-01		T-feed, right, grey, 1-Circuit	*135-11-30*		
110813-01		T-feed, right, white, 1-Circuit	*135-11-10*		
111248-01		Monopoint, White, 1-Circuit	*135-87-10*		
111252-01		Monopoint, Grey, 1-Circuit	*135-87-30*		

H&M Lighting Guide
SS14

HM Article Number	Image	Description	Nordic Light Ref Number	Reflector Type	Previous Article #
143806-01		Amber 20E NA. Complete fixture, All Grey.	*169-702-30*	Flood	109656-01
143822-01		Amber 20E NA. Complete fixture, All White.	*169-702-10*	Flood	109267-01
143832-01		Amber 35E NA. Complete fixture, All Grey.	*169-705-30*	Flood	109062-01
143835-01		Amber 35E NA. Complete fixture, All White.	*169-705-10*	Flood	109035-01
143853-01		Amber 50E NA. Complete fixture, All White.	*169-732-10*	Flood	124686-01
143849-01		Amber 50E NA. Complete fixture, All Grey.	*169-732-30*	Flood	124687-01
143255-01		Pendant Mini 35W, Flood, inc. LS, Grey (New version with combined pendant/surface instalation)	*113-506-30*	Flood	133383-01
143659-01		Skeleton, Downlight version, L=565mm	*213-143659-01*	Only shade and holders.	
135630-01		Skeleton, Downlight version 1190mm	*213-135630-01*	Only shade and holders.	
141731-01		Skeleton, Pendant version 565mm	*213-141731-01*	Only shade and holders.	
141642-01		Skeleton, Pendant version 1190mm	*213-141642-01*	Only shade and holders.	
145735-01		Corner Fitting Room Mirror Light, Chrome powder paint look	*196-500-91*		
143046-01		NLP 60E LED gear incl. Primary cable	*121-09*		107385-01
113656-01		Led profile 6-way splitter	*6-Way Splitter*		113656-01
123761-01		600mm Connection Cable - Connects Fixture to Driver	*123-75*		
109556-01		Cable set Secondary side (4m) - Connects two fixtures	*Secondary Cable*		
132170-01		VECTOR KIT H&M, 1175mm,3000K, White, 132degree Angle consists of:(1*3.69' LED Strip), (2*Tilt Bracket), (1*Secondary Cable).	*123-582-10*		

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SARGENTI ARCHITECTS

461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:

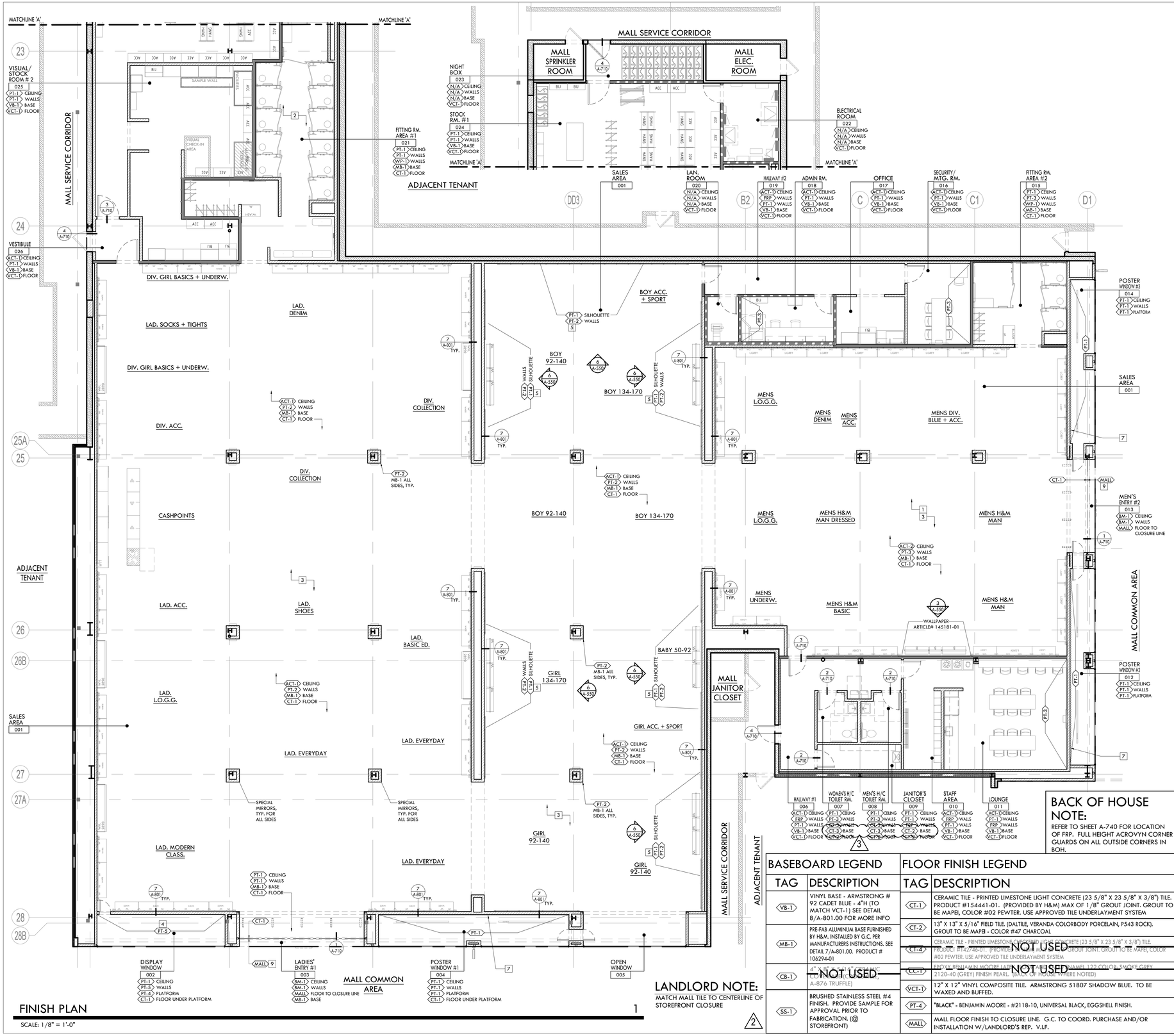
LIGHTING GUIDE

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:

A-323.00

DOB NO:



FINISH PLAN

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

1

LANDLORD NOTE:
MATCH MALL TILE TO CENTERLINE OF STOREFRONT CLOSURE

2

BACK OF HOUSE NOTE:
REFER TO SHEET A-740 FOR LOCATION OF FRP. FULL HEIGHT ACROVYN CORNER GUARDS ON ALL OUTSIDE CORNERS IN BOH.

3

BASEBOARD LEGEND

TAG	DESCRIPTION
VB-1	VINYL BASE - ARMSTRONG # 92 CADET BLUE - 4"H (TO MATCH VCT-1) SEE DETAIL 8/A-801.00 FOR MORE INFO
MB-1	PRE-FAB ALUMINUM BASE FURNISHED BY H&M. INSTALLED BY G.C. PER MANUFACTURERS INSTRUCTIONS. SEE DETAIL 7/A-801.00. PRODUCT # 10629-01
CB-1	4" ~~RUBBER~~ [illegible] COLOR: A-876 TRUFFLE) NOT USED
SS-1	BRUSHED STAINLESS STEEL #4 FINISH. PROVIDE SAMPLE FOR APPROVAL PRIOR TO FABRICATION. (@ STOREFRONT)

FLOOR FINISH LEGEND

TAG	DESCRIPTION
CT-1	CERAMIC TILE - PRINTED LIMESTONE LIGHT CONCRETE (23 5/8" X 23 5/8" X 3/8") TILE. PRODUCT #154441-01. (PROVIDED BY H&M) MAX OF 1/8" GROUT JOINT. GROUT TO BE MAPEI, COLOR #02 PEWTER. USE APPROVED TILE UNDERLAYMENT SYSTEM
CT-2	13" X 13" X 5/16" FIELD TILE. (DALTILE, VERANDA COLORBODY PORCELAIN, P543 ROCK). GROUT TO BE MAPEI - COLOR #47 CHARCOAL
CT-4	CERAMIC TILE - PRINTED LIMESTONE LIGHT CONCRETE (23 5/8" X 23 5/8" X 3/8") TILE. PRODUCT #T4274601. (PROVIDED BY H&M) MAX OF 1/8" GROUT JOINT. GROUT TO BE MAPEI, COLOR #02 PEWTER. USE APPROVED TILE UNDERLAYMENT SYSTEM
CT-5	6"X24"X3/8" WILMOOR LIMESTONE PORCELAIN TILE (MAPEI 122 COLOR: SMOKE GREY 2120-40 (GREY) FINISH PEARL GROUT OR EQUIVALENT WHERE NOTED) NOT USED
VCT-1	12" X 12" VINYL COMPOSITE TILE. ARMSTRONG 51807 SHADOW BLUE. TO BE WAXED AND BUFFED.
PT-4	"BLACK" - BENJAMIN MOORE - #2118-10, UNIVERSAL BLACK, EGGSHELL FINISH.
MALL	MALL FLOOR FINISH TO CLOSURE LINE. G.C. TO COORD. PURCHASE AND/OR INSTALLATION W/LANDLORD'S REP. V.I.F.

FLOOR TRANSITION ACCESSIBILITY NOTE:

ALL TRANSITIONS OF FLOORING MATERIALS TO MEET ACCESSIBILITY REQUIREMENTS AND APPLICABLE ACCESSIBILITY CODE. SEE SHEET A-000 FOR MORE INFORMATION.

FITTING ROOM NOTE:

REFER TO SHT A-730 FOR LOCATION OF SPECIAL FITTING ROOM PANELS. FULL HEIGHT ACROVYN CORNER GRDS AT FITTING RM ENTRY PORTAL.

FITTING ROOM NOTE:

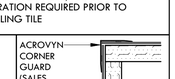
REFER TO A-730 SHTS. FOR LOCATION OF SPECIAL FITTING ROOM PANELS. ACROVYN CORNER GUARDS AT FITTING ROOM ENTRY PORTAL.

FLOOR LEVELING NOTE:

G.C. TO CONTRACT PSI TO PERFORM A FLOOR LEVELING TEST TO DETERMINE FLATNESS/FLOOR PREPARATION REQUIRED PRIOR TO INSTALLING TILE

FLOOR PROTECTION DURING CONSTRUCTION:

ONCE THE FLOORING IS GROUTED, IT SHOULD BE CLEANED AND COVERED WITH HOUSE WRAP (TYVEC), ALL SEAMS TAPED. INSTALL 5/8" THK. PLYWOOD OSB OR SIMILAR WITH FLAT THIN MENDING PLATES SCREWED DOWN TO PREVENT LIFTING. AT END OF PROJECT, PLYWD. SHOULD BE DONATED TO A NON-PROFIT SUCH AS HABITAT FOR HUMANITY



OUTSIDE CORNER

ACROVYN/ FRP DETAIL

SCALE: NONE

CEILING & BULKHEAD FINISH LEGEND

NOTE: ALL COLUMNS EXCEPT COLUMNS IN PORTALS WILL BE PAINTED IN THE SAME COLOR AS THE WALLS.

TAG	DESCRIPTION
ACT-1	STANDARD WHITE CEILINGS: ARMSTRONG DUNE #1772, 2' x 2' x 5/8" SQUARE LAY IN TILE FOR WHITE CEILINGS. USE PRELUDE 15/16" EXPOSED TEE GRID SYSTEM: 7300 MAIN BEAM, 7800 WALL MOLDING, XL7328 2' CROSS TEE, XL7342 4' CROSS TEE (COLOR TO MATCH). G.C. TO CONTACT H&M NATIONAL ARMSTRONG REP: MAUREEN CONE, MMCONE@ARMSTRONG.COM
ACT-2	TIMBER WOLF CEILINGS: ARMSTRONG DUNE #1772, 2' x 2' x 5/8" SQUARE LAY IN TILE MR87392 (COLOR TO MATCH BENJAMIN MOORE - # 1600-2B TIMBER WOLF). USE PRELUDE 15/16" EXPOSED TEE GRID SYSTEM: FZ41519 MAIN BEAM #7301, FZ41522 WALL ANGLE #7800, FZ41521 2' CROSS TEE # XL7328, FZ41520 4' CROSS TEE #XL7342 (COLOR TO MATCH). G.C. TO CONTACT H&M NATIONAL ARMSTRONG REP: MAUREEN CONE, MMCONE@ARMSTRONG.COM
PT-1	"WHITE" - BENJAMIN MOORE - # 2121-70-1B, CHANTILLY LACE / DENTELLE DELICATE . USE FLAT FINISH ON CEILINGS.
PT-2	"LIGHT GREY" - BENJAMIN MOORE - # 2137-6, GREY OWL - FOR WALLS & FASCIAS USE FLAT FINISH ON CEILINGS. NOT USED

WALL FINISH LEGEND

TAG	DESCRIPTION
PT-1	BACK OF HOUSE ,HOME, FITTING ROOMS, PORTALS, COLUMNS IN PORTALS, PLATFORMS & VOIDS: "WHITE" - BENJAMIN MOORE - # 2121-70-1B, CHANTILLY LACE / DENTELLE DELICATE , EGGSHELL FINISH FOR WALLS, FASCIAS & SHOW WINDOW PLATFORMS & EGGSHELL FOR ALL B.O.H. & STOCK RM WALLS
PT-2	LADIES, DIVIDED & KID'S DEPT. "LIGHT GREY" - BENJAMIN MOORE - # 2137-60, GREY OWL, - EGGSHELL FINISH FOR WALLS. NOTE: WALL IN UNDERWEAR DEPT. WITH VOILE, NICHE BEHIND CASH POINT AND NICHE FOR COSMETIC WARDROBES WILL BE PAINTED WHITE 'PT-1'.
PT-3	MEN'S DEPT.: "GREY" - BENJAMIN MOORE - # HC-169-2B, COVENTRY GRAY/ GRIS ALPADA, EGGSHELL FINISH.
PT-5	STOREFRONT DISPLAY WINDOWS - "BARREN PLAIN" - BENJAMIN MOORE - # 2111-60, EGGSHELL FINISH.
FRP	MARLITE STANDARD FRP 4'-0" HIGH - S100G WHITE WITH M370 TOP EDGE AND M350 INSIDE CORNERS. USE SEAM JOINTS BETWEEN SECTIONS. SUPPLIED AND INSTALLED BY G.C. USE FULL HEIGHT ACROVYN CORNER GUARDS AT ALL OUTSIDE CORNERS. REFER TO DETAILS ON MILLWORK DETAILS SHEET FOR MORE INFORMATION.
CT-3	3" X 6" FIELD TILE WITH 3" X 6" BULLNOSE TOP AND 3" X 6" COVE BASE (RUNNING BOND PATTERN, DALTILE RITTEN HOUSE SQUARE MATTE ARTIC WHITE, DT0790). GROUT: MAPEI - COLOR #38 AVALANCHE. SEE TOILET ROOM SHEET FOR MORE INFO.
CT-6	CERAMIC TILE 300MM X 300MM RED. PRODUCT #155174-01. (PROVIDED BY H&M) MAX OF 1/16" GROUT JOINT. GROUT TO BE MAPEI, COLOR #38 AVALANCHE. USE APPROVED TILE UNDERLAYMENT SYSTEM NOT USED
CT-7	SA" 12" X 24" TILE - "POSTA" [illegible] 01061 NIEVE NATURE DS. GROUT TO BE MAPEI, COLOR #38 [illegible] NOT USED
BM-1	GLOSS WHITE POWDER COAT METAL FINISH TO MATCH BENJAMIN MOORE #2121-70-1B CHANTILLY LACE - EGGSHELL FINISH. BRAKE METAL TO BE 18 GA., MIN. 12'-0" LONG SHEET. ALUMINUM STOREFRONT SYSTEM TO BE POWDER COATED TO MATCH BM-1 - REFER TO STOREFRONT SHEETS.
MM-1	5/8" WHITE MELAMINE [illegible] ROOM AREAS WHERE APPLICABLE) NOT USED
WP-1	SPECIAL PANELS WITH CORNER GUARDS FOR FITTING ROOM SERVICE AREA PROVIDED BY H&M AND INSTALLED BY G.C. G.C. TO COORD. PROPER INSTALLATION WITH H&M PROJECT MANAGER. REFER TO H&M INTERIOR INSTRUCTIONS.

DECOR/FLOOR COVERING KEY NOTES

SYMBOL	DESCRIPTION
1	ALL CONCEALED SPRINKLER HEAD COVERS IN CEILINGS WITH FINISH OTHER THAN WHITE SHALL BE CUSTOM ORDERED TO MATCH ADJACENT CEILING PAINT COLOR.
2	FITTING ROOM CURTAIN AND CURTAIN ROD SUPPLIED BY H&M AND INSTALLED BY G.C. REFER TO H&M PROVIDED "IPS DRAWINGS, CATALOGUES, AND CONSTRUCTION INFORMATION", ARTICLE #108407 FOR MORE INFORMATION. G.C. TO PROVIDE REQUIRED IN-WALL BLOCKING FOR CURTAIN ROD & ACCESORIES.
3	ALL DOORS AND FRAMES ON SALES FLOOR AND BACK OF HOUSE AREAS TO BE PAINTED TO MATCH ADJACENT WALL.
4	PAINT COLOR OF SHOW WINDOW ACCORDING TO SEASONAL DESIGN CONCEPT. COORDINATE SPEC. WITH H&M PM.
5	REFER TO INTERIOR ELEVATIONS SHEETS, GRAPHICS DETAIL SHEET A-550, AND H&M 2016 "INTERIOR GUIDELINES" INSTRUCTIONS FOR WALL SILHOUETTE INFORMATION.
6	3/4" WHITE REVEAL [illegible] WALL FOR PAINT COLOR FINISH SPECIFICATION NOT USED
7	PERFORATED ALUMINUM HANGING PANEL SYSTEM IN POSTER WINDOWS. SEE A-600 SERIES SHTS. FOR MORE INFO.
8	REFER TO FLOORING TRANSITION SHEETS AND H&M 2016 STORE INSTRUCTIONS FOR MORE INFO. SEE DETAIL 7/A-710 NOT USED
9	MALL TILE TO CENTER OF CLOSURE LINE AT ENTRY(IES). G.C. TO COORDINATE WITH LANDLORD'S REP.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

2 04.01.16 LL/CLIENT COMMENTS
3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
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04.01.16 PERMIT

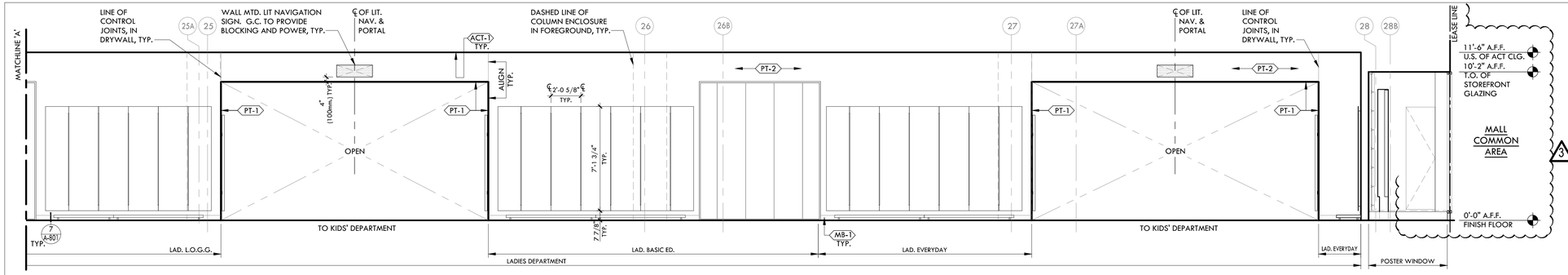
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PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:
FINISH PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-500.03

DOB NO:

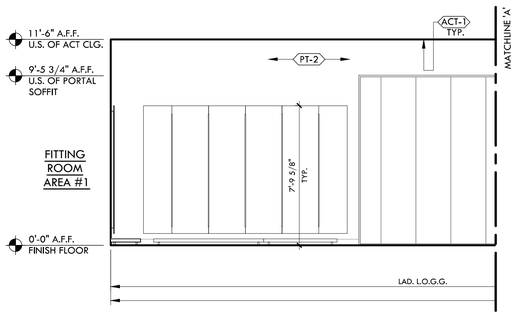


INTERIOR ELEVATION 1

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

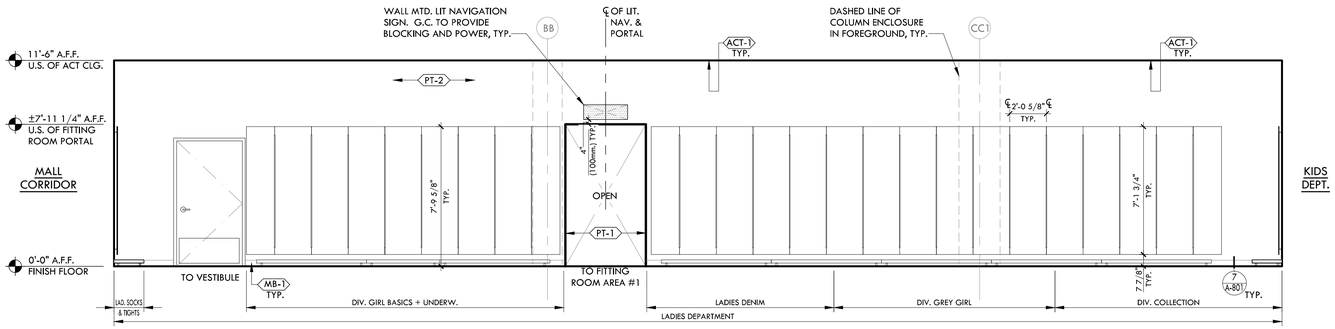
NOTES

1. ~~G.C. TO COORDINATE ALL WARDROBE WALL OPENING DIMENSIONS WITH WARDROBE MANUFACTURER AND SHEETS A-400 AND A-410 (AS APPLICABLE)~~
2. ALL DEVICES - COORDINATE ELECTRICAL REQUIREMENTS AND HEIGHTS WITH H&M PROJECT MANAGER AND ELECTRICAL DRAWINGS.
3. REFER TO FINISH PLAN ON SHEETS A-500 & A-550 AND H&M 2016 "H&M INTERIOR GUIDELINES" INSTRUCTIONS FOR WALL SILHOUETTE INFORMATION.
4. SEE SHT. A-551.00 FOR MORE INFO. ON LIT. NAVIGATION.
5. SEE SHT. A-100 FOR LOCATIONS & MORE INFO, ON EXIT SIGNS, FIRE EXTINGUISHER LOCATIONS.



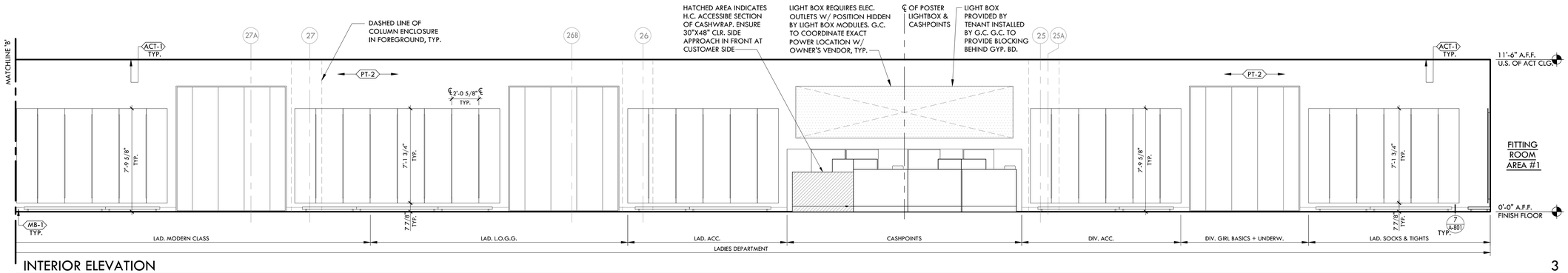
INTERIOR ELEVATION (CONT.) 1

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



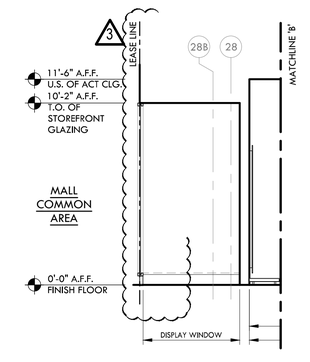
INTERIOR ELEVATION 2

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



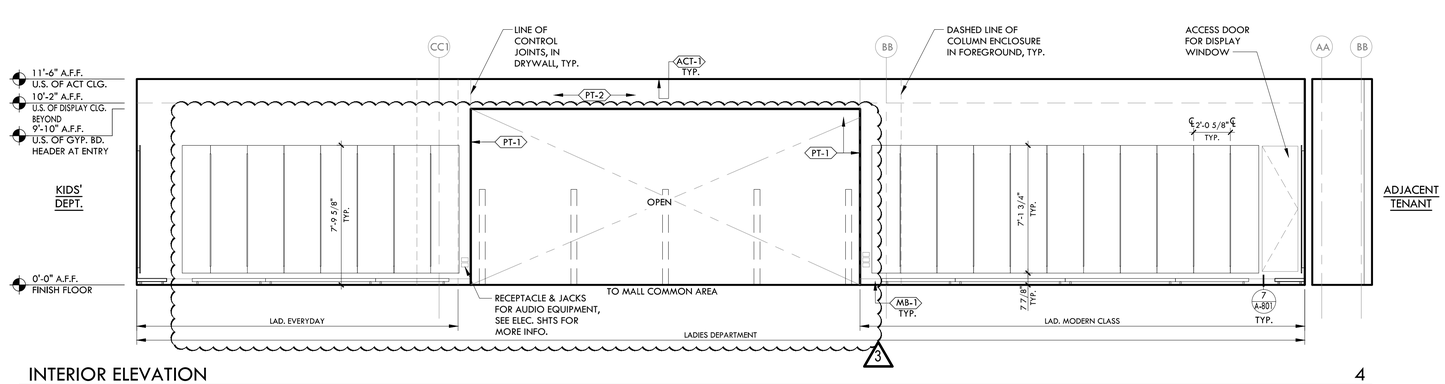
INTERIOR ELEVATION 3

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



INTERIOR ELEVATION (CONT.) 3

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



INTERIOR ELEVATION 4

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

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461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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REVISION:

3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
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04.01.16 PERMIT

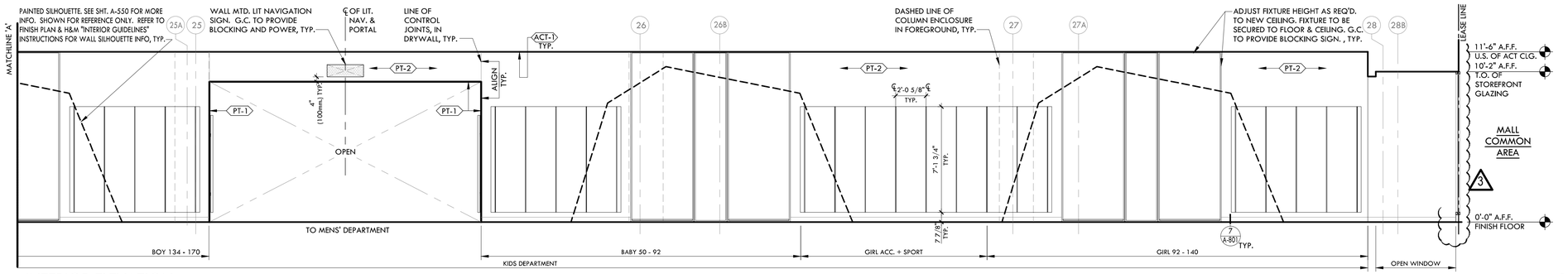
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PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG/RD
SCALE:	AS NOTED

SHEET TITLE:
INTERIOR ELEVATIONS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

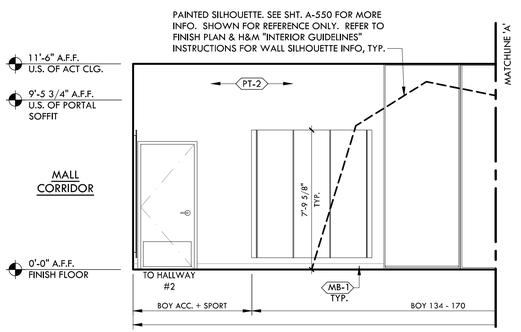
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A-610.03

DOB NO:



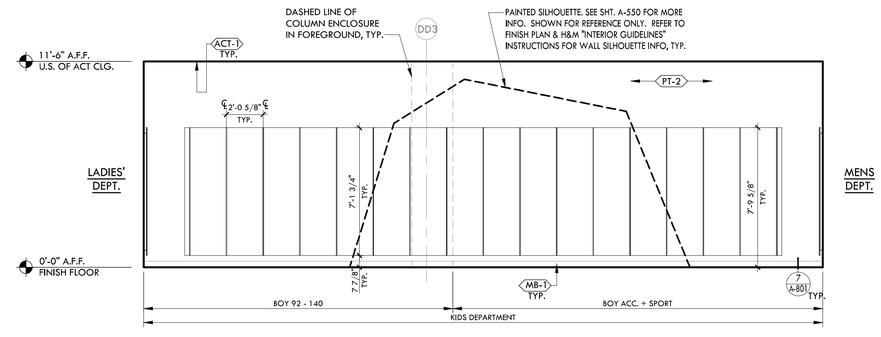
INTERIOR ELEVATION 1

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



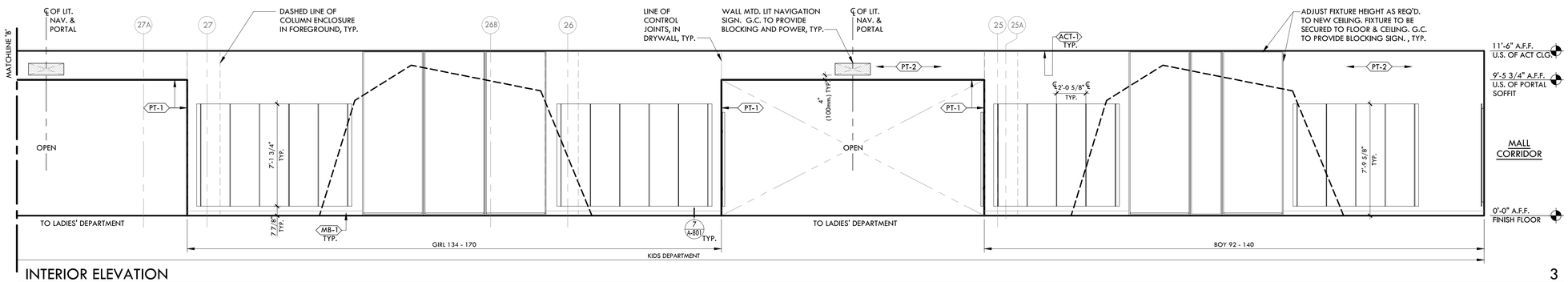
INTERIOR ELEVATION (CONT.) 1

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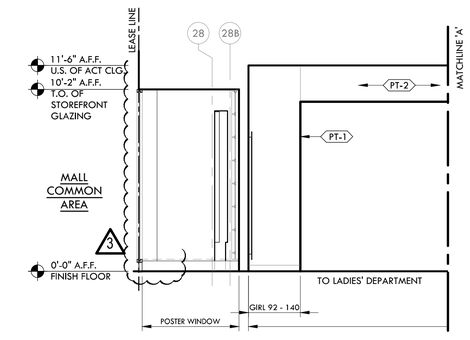
INTERIOR ELEVATION 2

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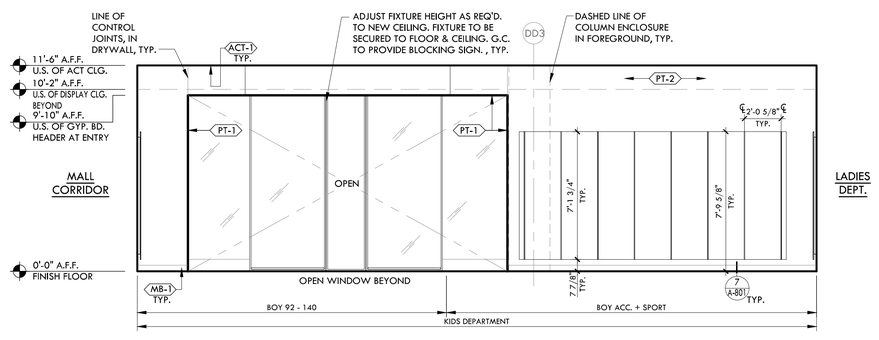
INTERIOR ELEVATION 3

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



INTERIOR ELEVATION (CONT.) 3

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



INTERIOR ELEVATION 4

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

NOTES

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SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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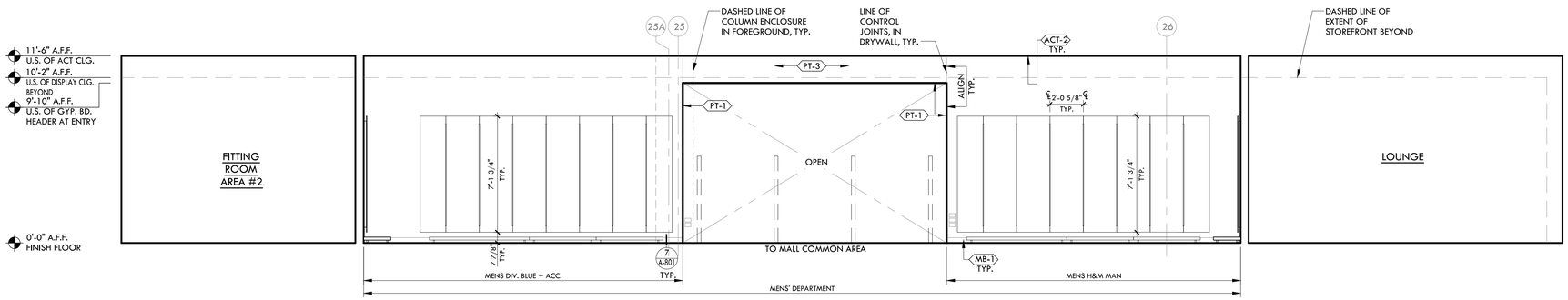
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PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG/RD
SCALE:	AS NOTED

SHEET TITLE:
INTERIOR ELEVATIONS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

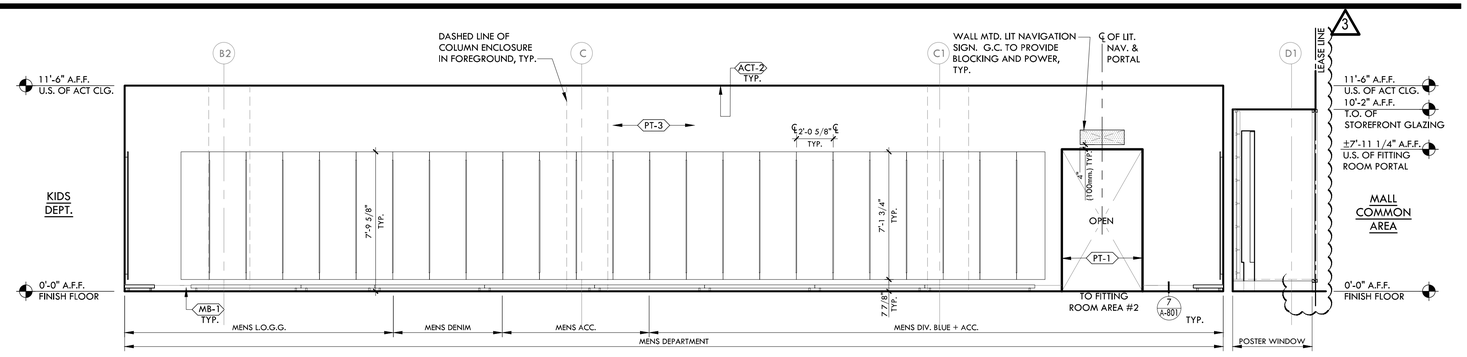
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A-620.03

DOB NO:



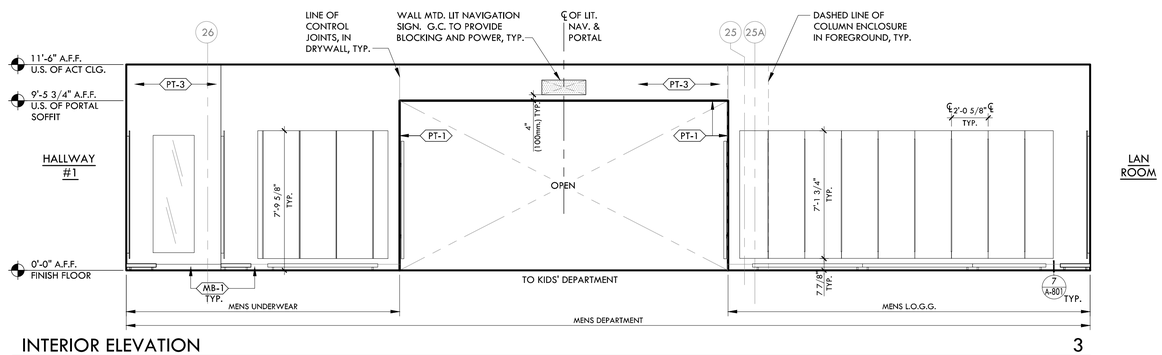
INTERIOR ELEVATION 1

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



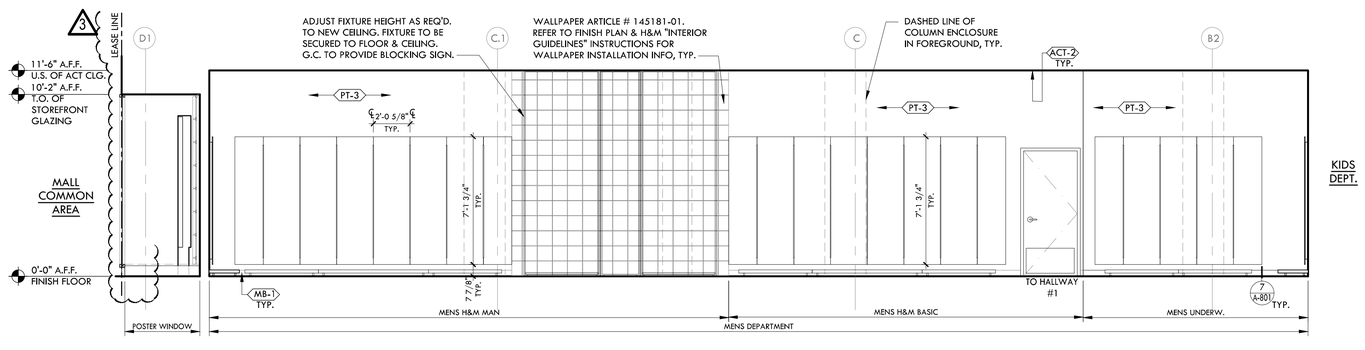
INTERIOR ELEVATION (CONT.) 2

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



INTERIOR ELEVATION 3

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



INTERIOR ELEVATION 4

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

NOTES

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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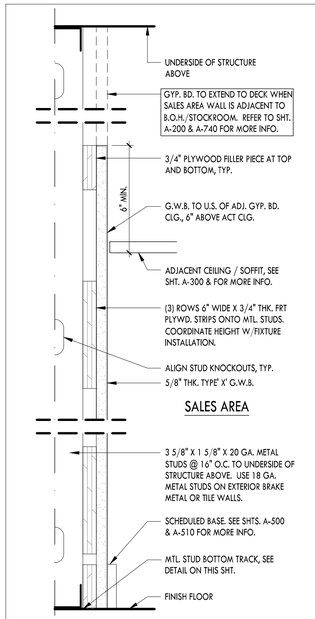
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PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG/RD
SCALE:	AS NOTED

SHEET TITLE:
INTERIOR ELEVATIONS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-630.03

DOB NO:



1. PROVIDE 3/4" THK. FRT PLYWD. STRIPS ONLY AT LOCATIONS WHERE FIXTURES ARE TO BE INSTALLED.
2. BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. STRIPS AT OPPOSITE SIDE.

NEW WALL - NO WARDROBE IN NICHE A

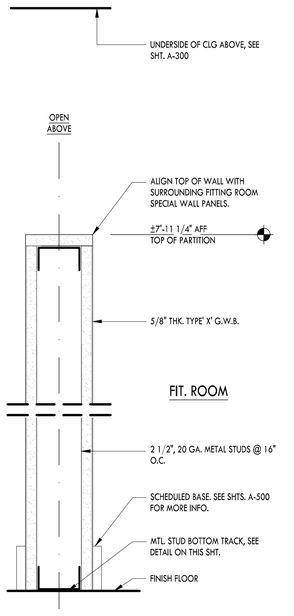
SCALE: 3" = 1'-0"

NEW WALL - NO WARDROBE IN NICHE A1

SCALE: 3" = 1'-0" — SAME AS TYPE 'A' EXCEPT USE 1-5/8" MTL. STUDS

NEW WALL - NO WARDROBE IN NICHE A2

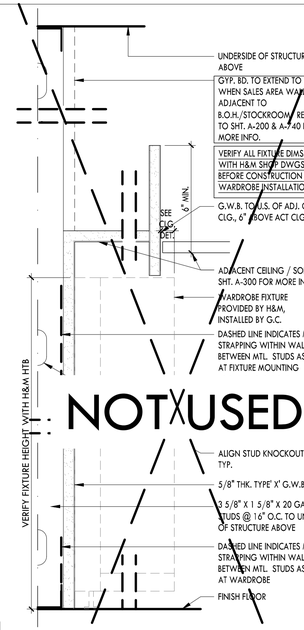
SCALE: 3" = 1'-0" — SAME AS TYPE 'A' EXCEPT USE 6" MTL. STUDS



1. PROVIDE PLYWOOD STRIPS / BLOCKING ONLY AT LOCATIONS WHERE FIXTURES ARE TO BE INSTALLED.
2. MELAMINE FINISH TO BE INSTALLED ONLY WHERE HANGING BARS / HOOKS ARE INSTALLED
3. 1/2" ROUND TRIM TO BE INSTALLED AT TOP PARTITION. AS APPROVED BY H&M PM. USE DMEC-4875 FRY REGLET TRIM AT FIT. RM. ENTRY

NEW WALL - PARTIAL HEIGHT G

SCALE: 3" = 1'-0" — SAME AS TYPE 'F' EXCEPT ADD METAL STRAPS UNDER GYP. BD. FOR WARDROBE



BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION, U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. AT OPPOSITE SIDE.

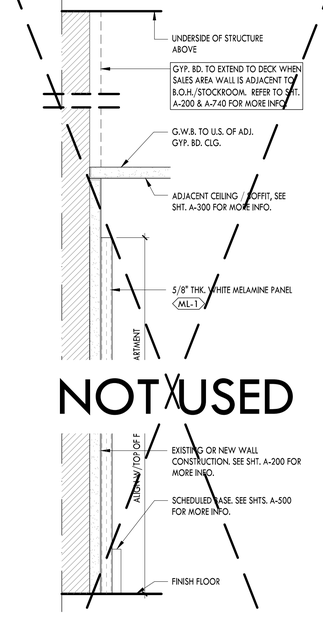
CENTER LINE OF 6" MTL. STRAPPING TO BE AT 74" OR 94" AFF BASED ON TYPE OF WARDROBE USED. COORD. WITH FIXTURE LAYOUT.

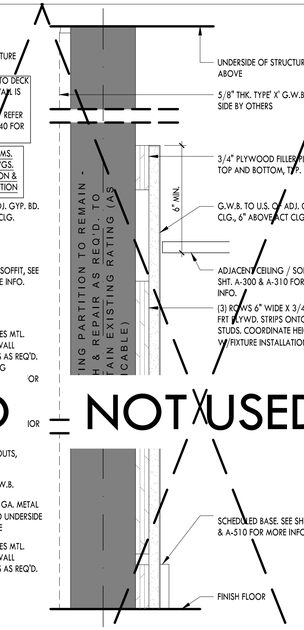
NEW WALL - W/WARDROBE IN NICHE B

SCALE: 3" = 1'-0"

NEW WALL - W/WARDROBE IN NICHE B1

SCALE: 3" = 1'-0" — SAME AS TYPE 'B' EXCEPT USE 6" MTL. STUDS

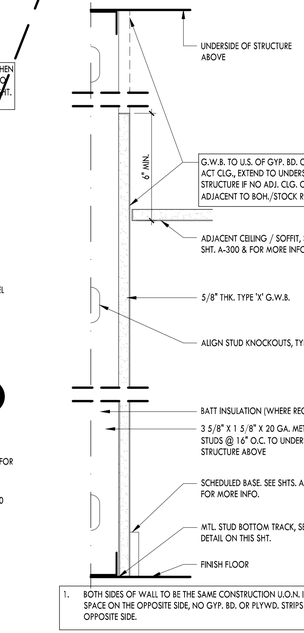




1. PROVIDE 3/4" THK. FRT PLYWD. STRIPS ONLY AT LOCATIONS WHERE FIXTURES ARE TO BE INSTALLED.
2. BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. STRIPS AT OPPOSITE SIDE.

EXIST. WALL - NO WARDROBE C

SCALE: 3" = 1'-0"



1. BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. STRIPS AT OPPOSITE SIDE.

NEW WALL - FULL HEIGHT H

SCALE: 3" = 1'-0"

NEW WALL - FULL HEIGHT H1

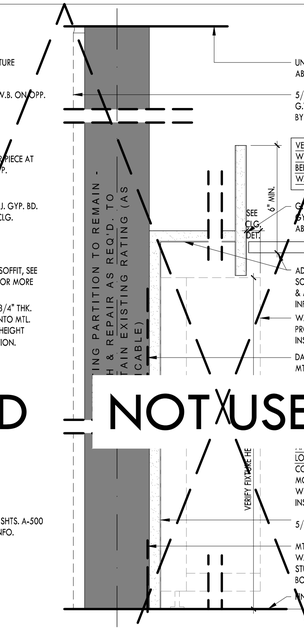
SCALE: 3" = 1'-0" — SAME AS TYPE 'H' EXCEPT GYP. BD. EXTENDS TO U.S. OF STRUCTURE ABOVE

NEW WALL - FULL HEIGHT H2

SCALE: 3" = 1'-0" — SAME AS TYPE 'H' EXCEPT USE 6" MTL. STUDS

NEW WALL - FULL HEIGHT H3

SCALE: 3" = 1'-0" — SAME AS TYPE 'H' EXCEPT USE 1-5/8" MTL. STUDS

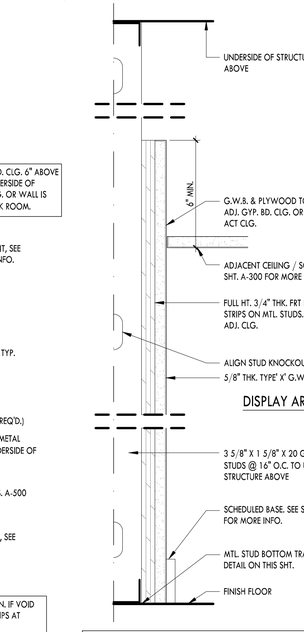


BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION, U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. AT OPPOSITE SIDE.

CENTER LINE OF 6" MTL. STRAPPING TO BE AT 74" OR 94" AFF BASED ON TYPE OF WARDROBE USED. COORD. WITH FIXTURE LAYOUT.

EXIST. WALL - W/ WARDROBE D

SCALE: 3" = 1'-0"



1. BOTH SIDES OF WALL TO BE THE SAME CONSTRUCTION U.O.N. IF VOID SPACE ON THE OPPOSITE SIDE, NO GYP. BD. OR PLYWD. STRIPS AT OPPOSITE SIDE.

NEW WALL - DISPLAY & COL. K

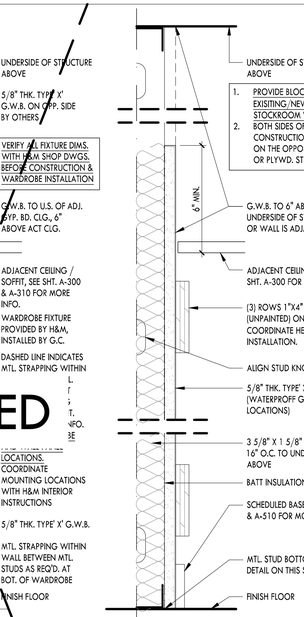
SCALE: 3" = 1'-0"

NEW WALL - DISPLAY & COL. K1

SCALE: 3" = 1'-0" — SAME AS TYPE 'K' EXCEPT USE 1-5/8" MTL. STUDS

NEW WALL - DISPLAY & COL. K2

SCALE: 3" = 1'-0" — SAME AS TYPE 'K' EXCEPT USE 6" MTL. STUDS



NEW WALL TYPE @ B.O.H. E

SCALE: 3" = 1'-0"

NEW WALL TYPE @ B.O.H. E1

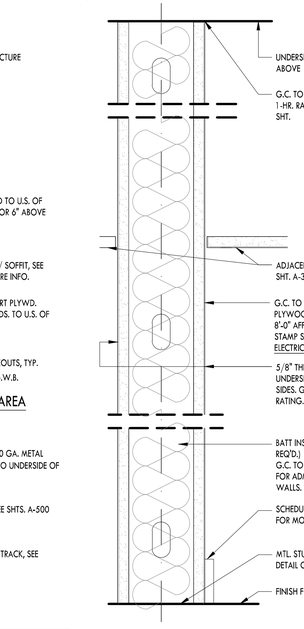
SCALE: 3" = 1'-0" — SAME AS TYPE 'E' EXCEPT GYP. BD. EXTENDS TO U.S. OF STRUCTURE ABOVE

NEW WALL TYPE @ B.O.H. E2

SCALE: 3" = 1'-0" — SAME AS TYPE 'E' EXCEPT USE 6" MTL. STUDS & WATERPROOF GYP. BD.

NEW WALL TYPE @ B.O.H. E3

SCALE: 3" = 1'-0" — SAME AS TYPE 'E' EXCEPT USE FUEL SHTS. OF 5/8" FRT PLYWD. BUCG. (INSTEAD OF STRIPS) OVER 5/8" THK. GYP. BD. SIZE & LOC. OF PLYWD. TO CORRESPOND W/ TYPE OF EQUIP. BEING INSTALLED. COOR. EQUIP. WITH ELEC. CONTR.

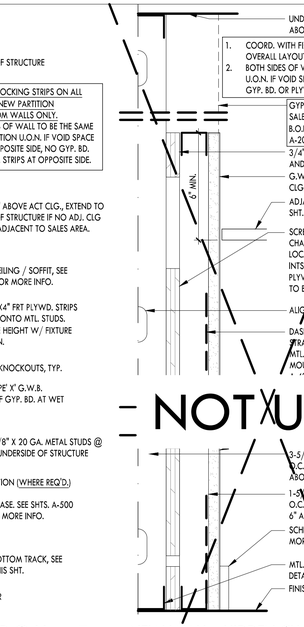


NEW WALL - 1-HR. RATED (#U465) L

SCALE: 3" = 1'-0"

NEW WALL - 1-HR. RATED (#U465) L1

SCALE: 3" = 1'-0" — SAME AS TYPE 'L' EXCEPT USE 6" MTL. STUDS



NEW WALL - HIDDEN CHANNEL F

SCALE: 3" = 1'-0"

NEW WALL - HIDDEN CHANNEL F1

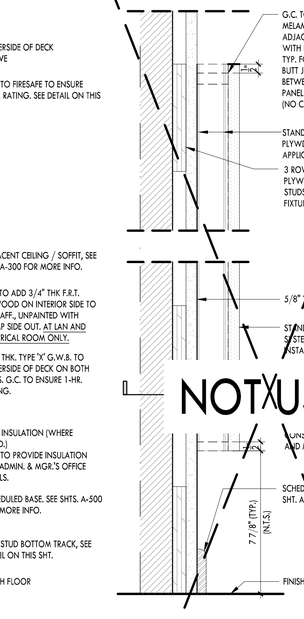
SCALE: 3" = 1'-0" — SAME AS TYPE 'F' BUT USE 3 5/8" MTL. STUDS (INSTEAD OF 1 -5/8")

NEW WALL - HIDDEN CHANNEL F2

SCALE: 3" = 1'-0" — SAME AS TYPE 'F' BUT USE 6" MTL. STUDS (INSTEAD OF 1 -5/8")

NEW WALL - HIDDEN CHANNEL F3

SCALE: 3" = 1'-0" — SAME AS TYPE 'F' BUT USE 2-1/2" MTL. STUDS (INSTEAD OF 1 -5/8")



NOTES:

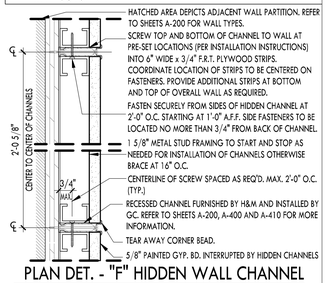
1. G.C. TO MAINTAIN INTEGRITY OF FIRE-RATING FOR CONSTRUCTION OF WALL
2. G.C. TO REFER TO H&M PRODUCT GUIDE AND INTERIOR INSTRUCTION BOOKLETS FOR FURTHER INFORMATION AND DETAILS.

WALL POP-OUT WALL STD. PANEL (SECT.) M

SCALE: 3" = 1'-0"

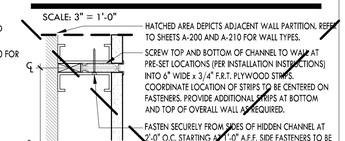
PARTITION NOTES:

1. UNDERSIDE OF EXISTING STRUCTURE
   - 1.1. UNDERSIDE OF DECK IS ±16'-11 1/4" TO ±18'-10" AFF. (V.I.F.)
   - 1.2. BOTTOM OF JOISTS IS ±15'-8" TO ±17'-6 1/2" AFF. (V.I.F.)
2. FIRESTOPPING SHALL BE THERMAFIBER WOOL INSULATION OR EQUIVALENT.
3. FIRE CAULKING SHALL BE FIRECODE BRAND FIRECAULK OR EQUIVALENT.
4. G.C. TO PROVIDE ADEQUATE METAL STUDS PER SSMA LIMITED WALL HEIGHT STANDARDS FOR INTERIOR NON-STRUCTURAL NON-COMPOSITE WALLS (5 PSF, L/240.)
5. REFER TO SHTS. A-200 FOR LOCATIONS OF EXPOSED SIDES OF STUDS FOR ALL WALL TYPES.
6. ALL PARTITIONS SHOWN AS EXISTING TO BE PATCHED AND REPAIRED AS REQ'D. AND MAINTAIN EXISTING RATING
7. BLOCKING IS SHOWN FOR REFERENCE ONLY. EXACT QUANTITY AND O.C. DIMENSIONS SHALL BE COORDINATED WITH FIXTURE SHOP DWGS.
8. NO SCREWING OR ATTACHING TO ROOF DECK. PER LL'S REQ'TS., G.C. TO COORD. WITH LL'S ON SITE REP.



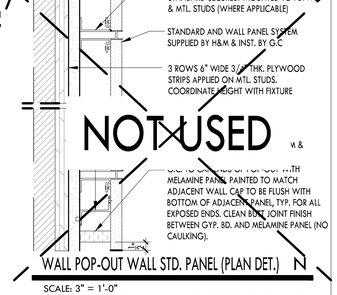
PLAN DET. - "F" HIDDEN WALL CHANNEL

SCALE: 3" = 1'-0"



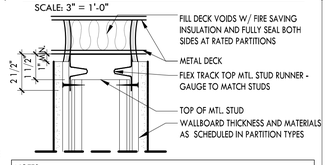
PLAN DET. - "F1" HIDDEN WALL CHANNEL

SCALE: 3" = 1'-0"



WALL POP-OUT WALL STD. PANEL (PLAN DET.) N

SCALE: 3" = 1'-0"

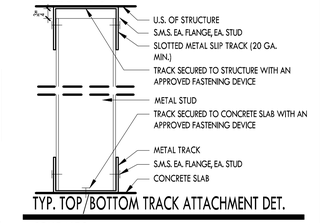


NOTES:

1. FIRE TAPE ALL DRYWALL JOINTS ABOVE CEILINGS. SEAL AROUND ALL PENETRATIONS THRU OR INTO WALLS.
2. PROVIDE FIRE STOP CAULKING AT ALL U.L. RATED PARTITIONS.
3. PROVIDE ACOUSTICAL SEALANT AT ALL ACOUSTICAL PARTITIONS. (TYP. AT FULL HEIGHT WALLS)

WALL HEAD DET. (1-HR. RATED - #HW-D-0060)

SCALE: 3" = 1'-0"



TYP. TOP/BOTTOM TRACK ATTACHMENT DET.

SCALE: N.T.S.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:

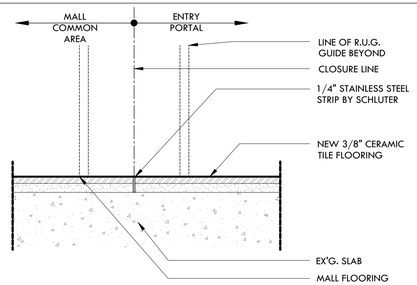
PARTITION TYPES

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:

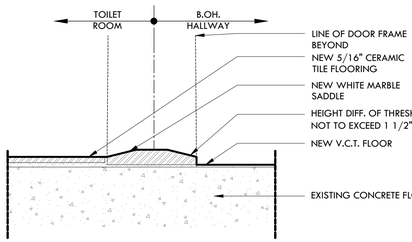
A-700.00

DOB NO:



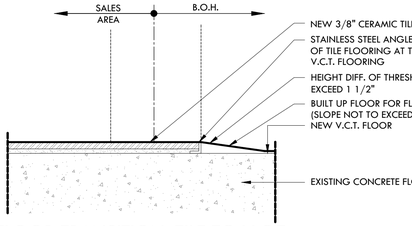
FLOOR TRANSITION: ENTRY AREA 1

SCALE: 3" = 1'-0" STOREFRONT



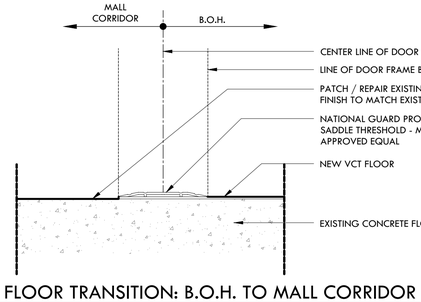
FLOOR TRANSITION: TILE TO V.C.T. 2

SCALE: 3" = 1'-0" TOILET ROOM



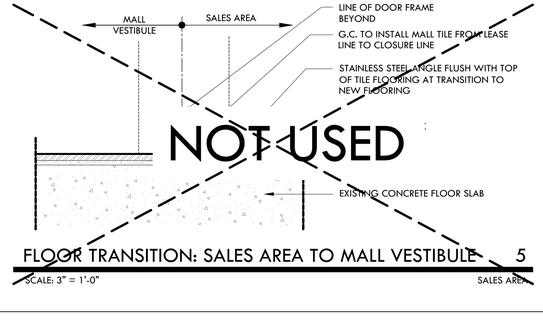
FLOOR TRANSITION: TILE TO V.C.T. 3

SCALE: 3" = 1'-0" B.O.H.



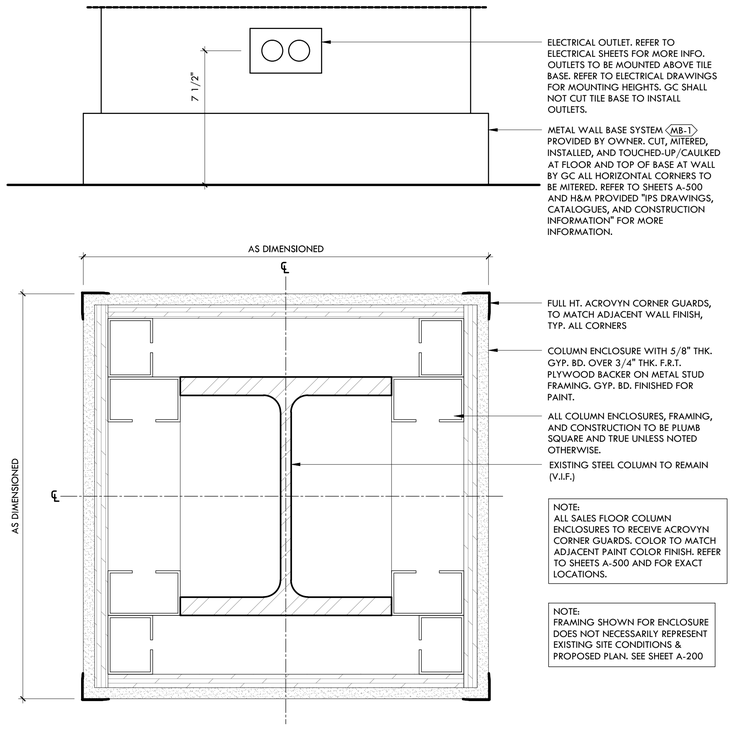
FLOOR TRANSITION: B.O.H. TO MALL CORRIDOR 4

SCALE: 3" = 1'-0" B.O.H.



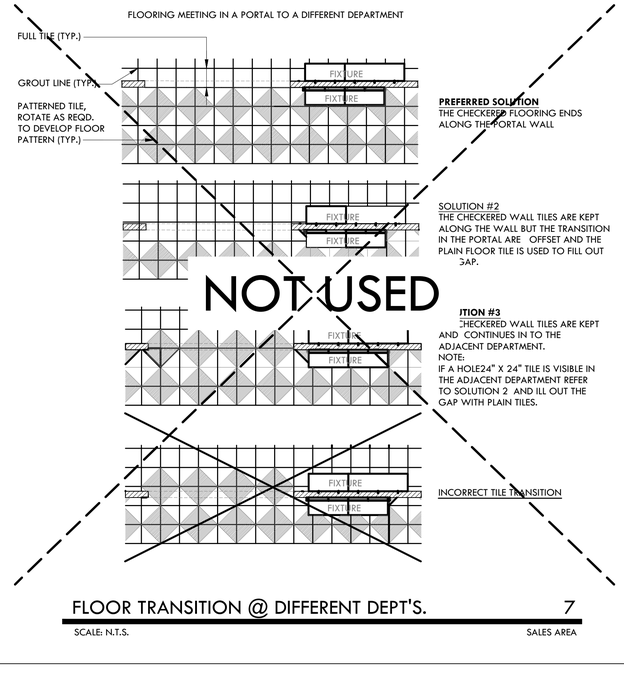
FLOOR TRANSITION: SALES AREA TO MALL VESTIBULE 5

SCALE: 3" = 1'-0" SALES AREA



PLAN DETAIL - COLUMN ENCLOSURE DETAIL (TYP.) 6

SCALE: 3" = 1'-0" SALES AREA



FLOOR TRANSITION @ DIFFERENT DEPT'S. 7

SCALE: N.T.S. SALES AREA



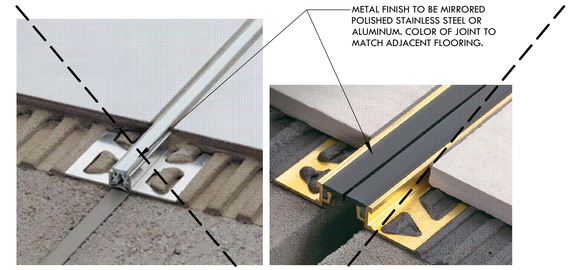
FOR REFERENCE ONLY

NOTE:

- TYPE OF FLUSH MOUNTED FLOOR OUTLET TO BE DETERMINDEDAND RECOMMENDED BY H&M PROJECT ENGINEER.
- G.C. TO FOLLOW AND INSTALL PER MFR. PRESCRIBED INSTALLATION REQUIREMENTS AND PROVIDE FIXTURE CUT-SHEETS ACCORDINGLY.
- METAL FINISH TO BE MIRRORED POLISHED STAINLESS STEEL OR ALUMINUM. COLOR OF JOINT TO MATCH ADJACENT FLOORING. COORDINATE WITH H&M PROJECT MANAGER

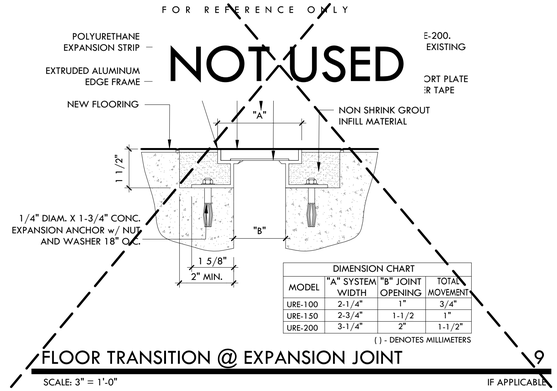
FLOOR MOUNTED FLUSH OUTLETS 8

SCALE:N.T.S. WHERE APPLICABLE



FOR REFERENCE ONLY

NOT USED

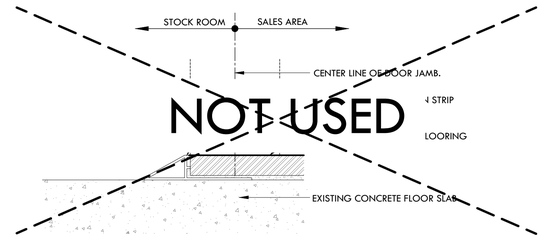


DIMENSION CHART			
MODEL	"A" SYSTEM WIDTH	"B" JOINT OPENING	TOTAL MOVEMENT
URE-100	2-1/4"	1"	3/4"
URE-150	2-3/4"	1-1/2	1"
URE-200	3-1/4"	2"	1-1/2"

( ) - DENOTES MILLIMETERS

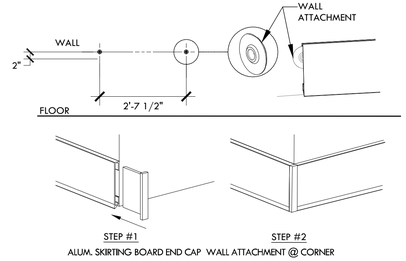
FLOOR TRANSITION @ EXPANSION JOINT 9

SCALE: 3" = 1'-0" IF APPLICABLE



FLOOR TRANSITION: SALES AREA TO STOCK ROOM 10

SCALE: 3" = 1'-0" SALES AREA



ALUM. SKIRTING BOARD END CAP WALL ATTACHMENT @ CORNER

PRE-FAB ALUM BASE 11

SCALE: 6" = 1'-0" SALES AREA

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

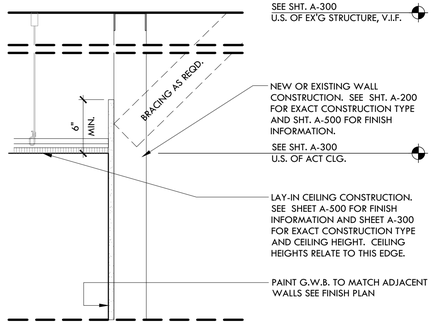
SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG
SCALE:	AS NOTED

SHEET TITLE:
FLOOR, COLUMN & MISC. DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

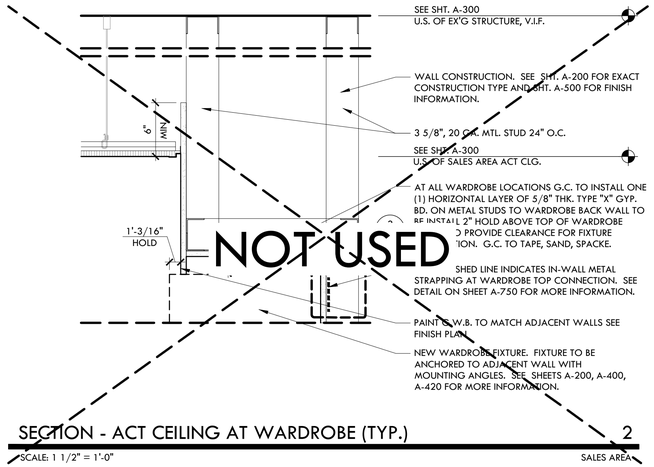
SHEET NO:
A-710.00

DOB NO:



SECTION - ACT CEILING AT WALL (TYP.) 1

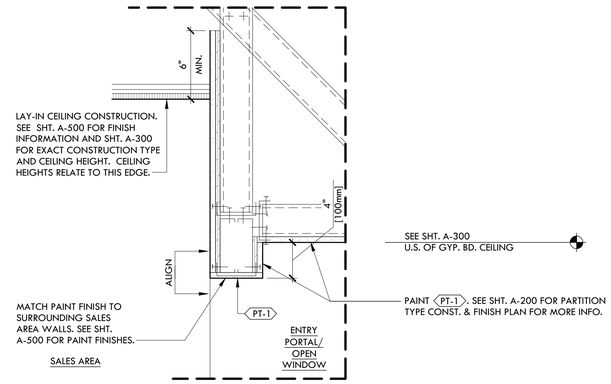
SCALE: 1 1/2" = 1'-0"



NOT USED

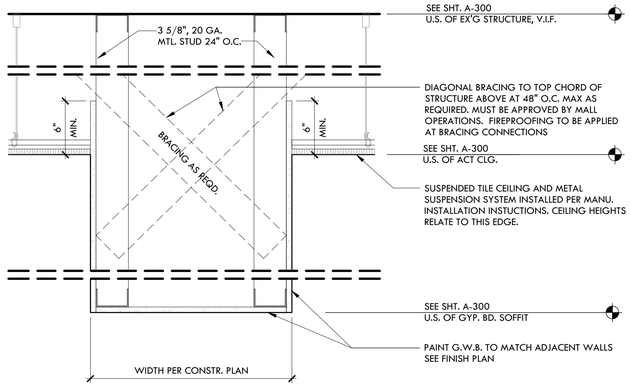
SECTION - ACT CEILING AT WARDROBE (TYP.) 2

SCALE: 1 1/2" = 1'-0"



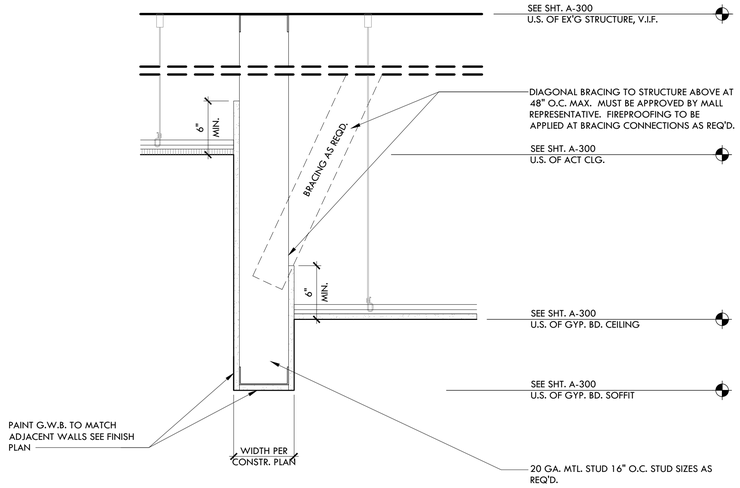
SECTION - HEADER AT STOREFRONT (TYP.) 3

SCALE: 1 1/2" = 1'-0" STOREFRONT



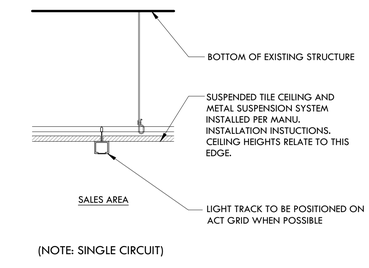
SECTION - ACT CEILING AT PORTALS (TYP.) 4

SCALE: 1 1/2" = 1'-0"



SECTION - ACT AND GYP. BD. CEILING AT PORTALS 5

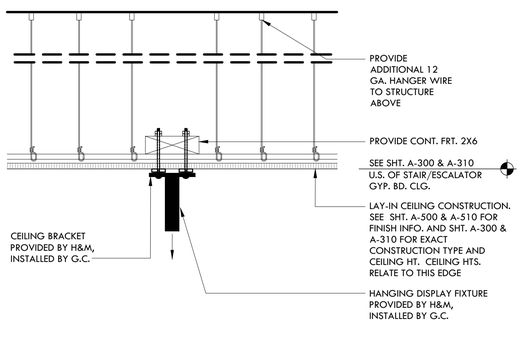
SCALE: 1 1/2" = 1'-0"



(NOTE: SINGLE CIRCUIT)

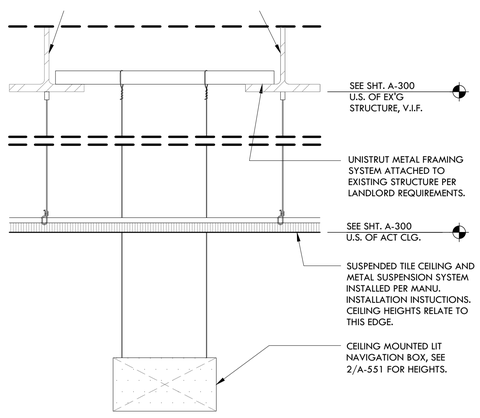
DETAIL - SURFACE MOUNTED TRACK (TYP.) 6

SCALE: 1 1/2" = 1'-0"



SECTION - ACT CEILING AT ATTACHED FULL HT. FIXTURE 7

SCALE: 1 1/2" = 1'-0"



SECTION - ACT CEILING AT FULL HT. FIXTURE 8

SCALE: 1 1/2" = 1'-0"

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MG
SCALE: AS NOTED

SHEET TITLE:
CEILING DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-720.00

DOB NO:

NOTE:

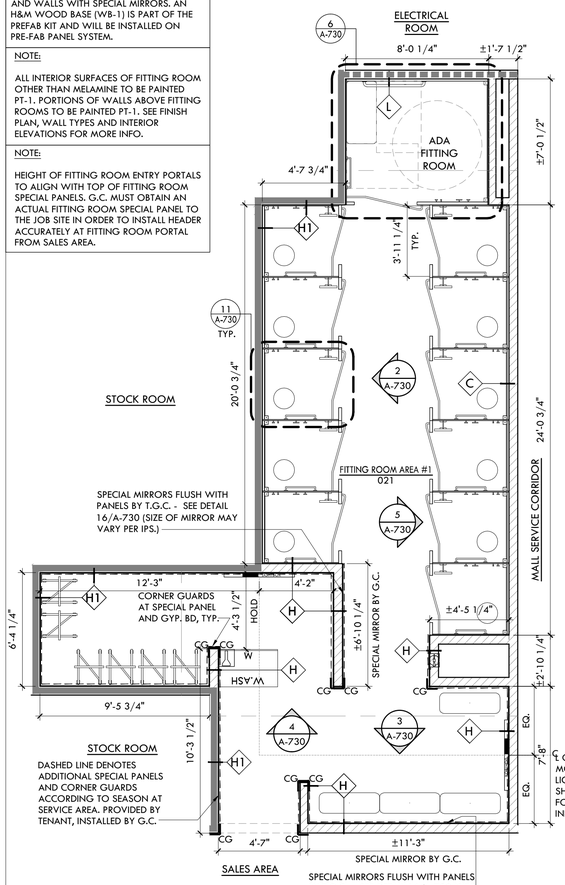
MB-1 BASE TO BE USED ON MTL. STUD WALL AREAS WALLS WITH SPECIAL PANELS AND WALLS WITH SPECIAL MIRRORS. AN H&M WOOD BASE (WB-1) IS PART OF THE PREFAB KIT AND WILL BE INSTALLED ON PRE-FAB PANEL SYSTEM.

NOTE:

ALL INTERIOR SURFACES OF FITTING ROOM OTHER THAN MELAMINE TO BE PAINTED PT-1. PORTIONS OF WALLS ABOVE FITTING ROOMS TO BE PAINTED PT-1. SEE FINISH PLAN, WALL TYPES AND INTERIOR ELEVATIONS FOR MORE INFO.

NOTE:

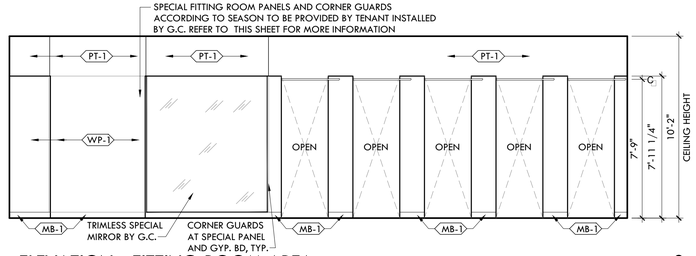
HEIGHT OF FITTING ROOM ENTRY PORTALS TO ALIGN WITH TOP OF FITTING ROOM SPECIAL PANELS. G.C. MUST OBTAIN AN ACTUAL FITTING ROOM SPECIAL PANEL TO THE JOB SITE IN ORDER TO INSTALL HEADER ACCURATELY AT FITTING ROOM PORTAL FROM SALES AREA.



ENLARGED PLAN - FITTING ROOM AREA 1

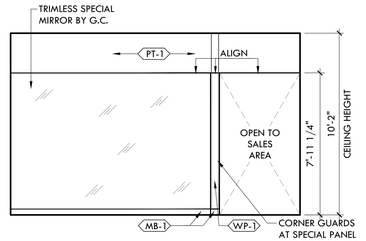
SCALE: 1/4" = 1'-0"

NOTE:
FITTING ROOM WALL LENGTHS VARY
SEE PLANS ABOVE FOR WALL DIMENSIONS



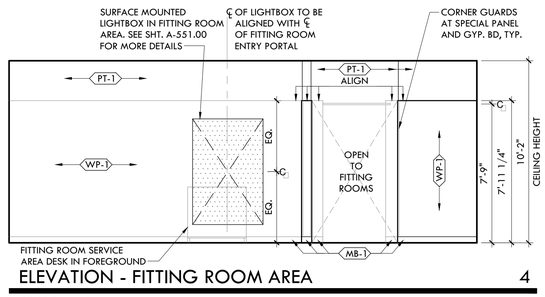
ELEVATION - FITTING ROOM AREA 2

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



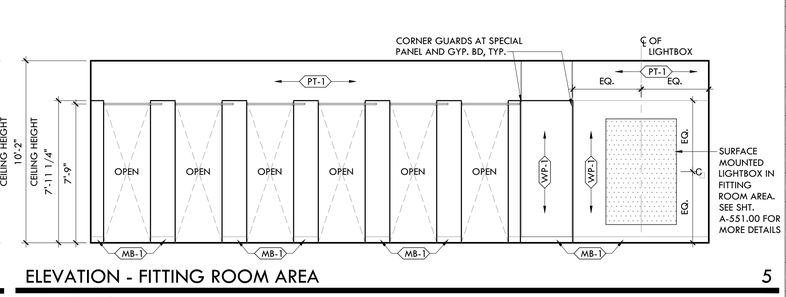
ELEVATION - FITTING ROOM AREA 3

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



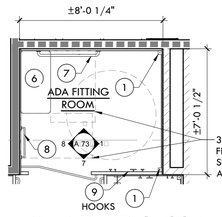
ELEVATION - FITTING ROOM AREA 4

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



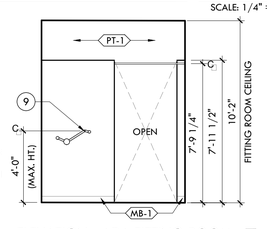
ELEVATION - FITTING ROOM AREA 5

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



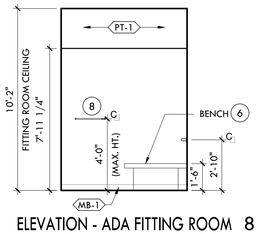
PLAN - ADA FITTING ROOM 6

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



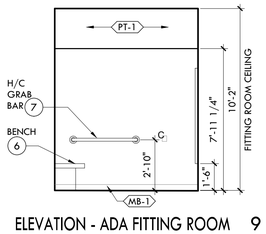
ELEVATION - ADA FITTING ROOM 7

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



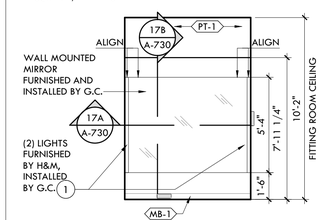
ELEVATION - ADA FITTING ROOM 8

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



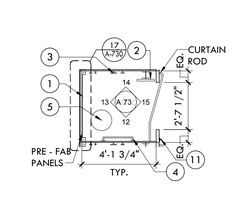
ELEVATION - ADA FITTING ROOM 9

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



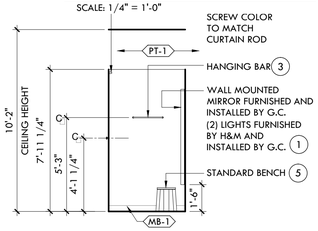
ELEVATION - ADA FITTING ROOM 10

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



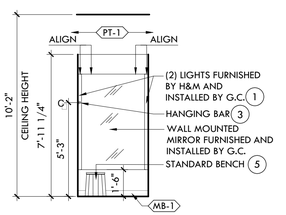
PLAN - FITTING ROOM (TYP.) 11

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



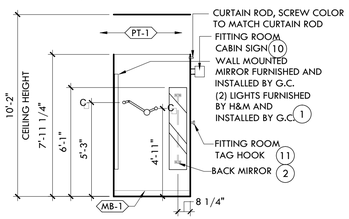
ELEVATION - FITTING ROOM (TYP.) 12

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



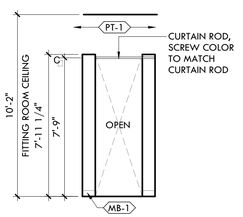
ELEVATION - FITTING ROOM (TYP.) 13

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



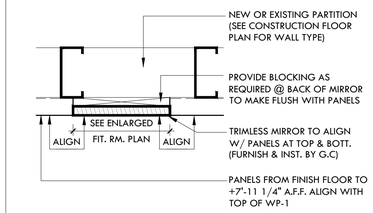
ELEVATION - FITTING ROOM (TYP.) 14

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



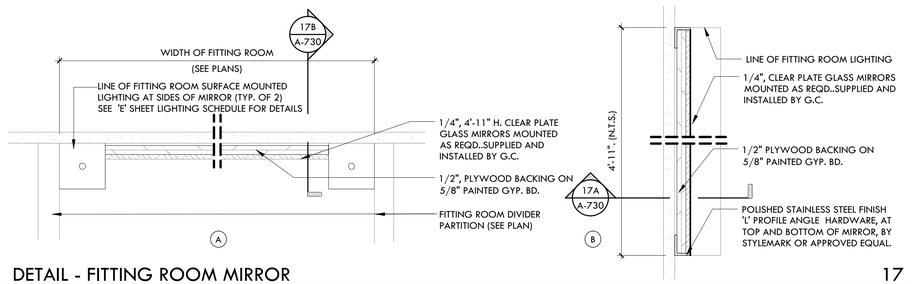
ELEVATION - FITTING ROOM (TYP.) 15

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



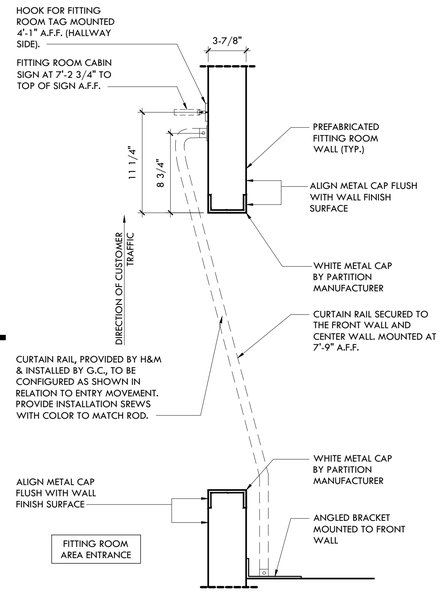
DETAIL - PANEL SPECIAL MIRROR 16

SCALE: NONE



DETAIL - FITTING ROOM MIRROR 17

SCALE: 3" = 1'-0"



DETAIL - FITTING ROOM DOOR 18

SCALE: 1 - 1/2" = 1'-0"

ADA FITTING ROOM GENERAL NOTES

1. BENCH TO BE ANCHORED TO ADJACENT WALL.
2. CLEAR SPACE MUST BE MAINTAINED.
3. ALL FITTING ROOM FIXTURES, CURTAINS, CURTAIN RODS, CURTAIN HARDWARE, BACK MIRRORS, AND MIRRORS WITH LIGHTS ARE SUPPLIED BY H&M. COORDINATE WITH H&M'S VENDORS.
4. G.C. IS RESPONSIBLE FOR PROVIDING ALL BRACING/BLOCKING REQUIRED BY CODE AND STRUCTURAL NECESSITY FOR ALL FIXTURES AFFIXED TO WALLS.
5. COORDINATE SPACING AND FREQUENCY OF F.R.T. PLYWOOD BLOCKING FOR FITTING ROOM ACCESSORIES WITH ON-SITE H&M REPRESENTATIVE.
6. G.C. TO CAULK AROUND ALL FIXTURES IN FITTING ROOMS.
7. ATTACH HANDICAP BENCH TO WALL (NO OTHER FITTING ROOM BENCHES TO BE SECURED TO WALLS).
8. ALL PLAN DIMENSIONS TO FINISH FACE OF PARTITION.
9. CENTER LINE OF J-BOX FOR FITTING ROOM ILLUMINATED MIRRORS TO BE @ 46-1/2" A.F.F.
10. NON-LIT MIRROR IN ADA FITTING ROOM FURNISHED AND INSTALLED BY G.C.
11. VERIFY WALLS TO RECEIVE SPECIAL GRAPHICS AND/OR MATERIAL SHALL NOT HAVE ANY RECEPTACLES.

FITTING ROOM NOTES

1. ALL FITTING ROOM FIXTURES, HARDWARE, BACK MIRRORS, MIRROR w/ LIGHT ARE SUPPLIED BY H&M/ INSTALLED BY G.C. G.C. TO VERIFY FIXTURES, E.C. ROUGH-IN WITH FLOOR PLAN LAYOUT.
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4. G.C. TO CAULK AROUND ALL FIXTURES IN FITTING ROOMS. CAULK ILLUMINATED MIRRORS WHEN FRONT PANELS ARE IN OPEN POSITION.
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11. SPECIAL PANELS ACCORDING TO SEASON w/ CORNER GUARDS (ONLY AT PANELS) FURNISHED BY TENANT & INSTALLED BY. G.C.
12. SPECIAL MIRROR BETWEEN SPECIAL PANELS FURNISHED & INSTALLED BY G.C.
13. FITTING ROOM MIRROR-LIGHTS TO CONTAIN INTEGRAL MOTION SENSORS (TYP.) E. GC. TO RUN WIRE/ CABLING IN WALL CAVITY ADJACENT TO FITTING ROOM AND/OR TO JUNCTION BOX IN CEILING ABOVE (TYP.)

PANEL NOTES

ALL DIVIDERS TO BE CONSTRUCTED IN 2-1/4" HOLLOW WOOD CONSTRUCTION. EACH DIVIDER TO BE 1/2" THICK TO SLEEVE INTO DADO JOINTS.

ALL TOP OF PANELS TO BE CLOSED AND CAPPED. CONNECT DIVIDERS WITH COUNTERSUNK METAL FLANGE INTERSECTING DIVIDERS TO ENSURE STABILITY

ALL INTERIOR SURFACES OF FITTING ROOM OTHER THAN MELAMINE TO BE PAINTED PT-1. PORTIONS OF WALLS ABOVE FITTING ROOMS TO BE PAINTED PT-1. SEE WALL TYPES AND INTERIOR ELEVATIONS FOR MORE INFO.

MB-1 BASE TO BE USED ON ALL WALLS AND PARTITIONS IN FITTING ROOM.

FITTING ROOM ACCESSORY SCHEDULE

NO.	DESCRIPTION	MOUNTING HT.	REMARKS
1	LIGHTS PROVIDED BY OWNER, ASSEMBLED & INSTALLED BY G.C. MIRROR & CHANNELS PROVIDED & INSTALLED BY G.C.	B.O. MIRROR 1'-6" A.F.F.	G.C. TO PROVIDE POWER AND BLOCKING AS REQUIRED
2	SMALL ADJUSTABLE MIRROR, 9'-7/8" WIDE	T.O. MIRROR 6'-1" A.F.F.	-
3	CLOTHING HANG BAR	5'-3" A.F.F. VERIFY WITH H&M PM	-
4	CLOTHING HOOKS	REFER TO ELEVATIONS	-
5	STANDARD NON-ADA FITTING ROOM BENCH	-	-
6	20"X42" FITTING ROOM BENCH. ADA BENCH TO BE FLOOR SUPPORTED AND FASTENED TO FLOOR	-	FIT. RM. BENCHES PROVIDED BY OWNER & INSTALLED BY G.C.
7	ADA GRAB BAR	2'-10" A.F.F. TO CENTERLINE	-
8	H/C CLOTHING HANG BAR	48" A.F.F. (MAX)	-
9	H/C CLOTHING HOOKS	48" A.F.F. (MAX)	-
10	FITTING ROOM CABIN SIGNS	T.O. SIGN 7'-2 3/4" A.F.F.	-
11	FITTING ROOM ROOM TAG HOOKS	4'-1" A.F.F. TO CENTERLINE	-

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.: 150914-006
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MB
SCALE: AS NOTED

SHEET TITLE:
FITTING ROOM AREA
AREA #1 ELEVATIONS AND DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-730.00

DOB NO:

NOTE:
MB-1 BASE TO BE USED ON MTL. STUD WALL AREAS WALLS WITH SPECIAL PANELS AND WALLS WITH SPECIAL MIRRORS. AN H&M WOOD BASE (WB-1) IS PART OF THE PREFAB KIT AND WILL BE INSTALLED ON PRE-FAB PANEL SYSTEM.

NOTE:
ALL INTERIOR SURFACES OF FITTING ROOM OTHER THAN MELAMINE TO BE PAINTED PT-1. PORTIONS OF WALLS ABOVE FITTING ROOMS TO BE PAINTED PT-1. SEE FINISH PLAN, WALL TYPES AND INTERIOR ELEVATIONS FOR MORE INFO.

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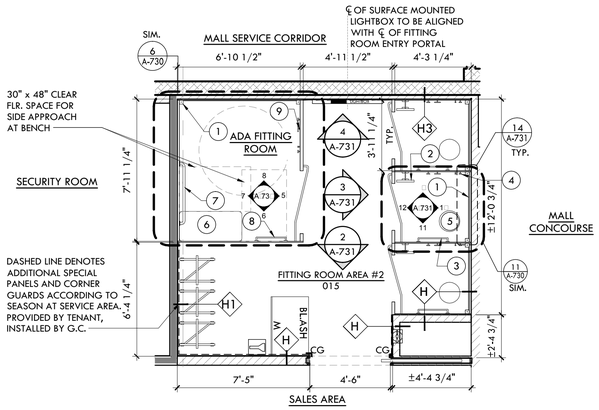
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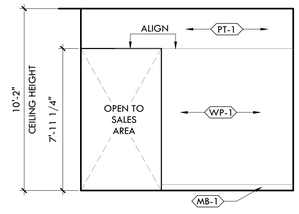
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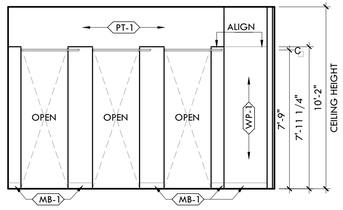
ENLARGED PLAN - FITTING ROOM AREA 1

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



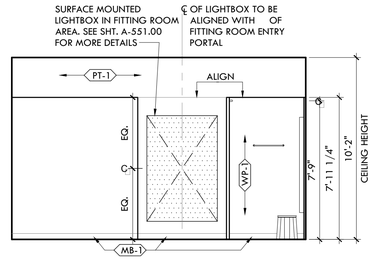
ELEVATION - FITTING ROOM AREA 2

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



ELEVATION - FITTING ROOM AREA 3

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



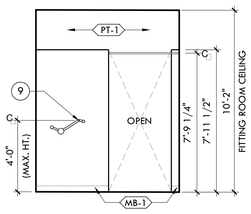
ELEVATION - FITTING ROOM AREA 4

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

FITTING ROOM ACCESSORY SCHEDULE

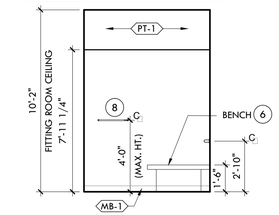
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3	CLOTHING HANG BAR	5'-3" A.F.F. VERIFY WITH H&M PM	-
4	CLOTHING HOOKS	REFER TO ELEVATIONS	-
5	STANDARD NON-ADA FITTING ROOM BENCH	-	-
6	20"X42" FITTING ROOM BENCH. ADA BENCH TO BE FLOOR SUPPORTED AND FASTENED TO FLOOR	-	FIT. RM. BENCHES PROVIDED BY OWNER & INSTALLED BY G.C.
7	ADA GRAB BAR	2'-10" A.F.F. TO CENTERLINE	-
8	H/C CLOTHING HANG BAR	48" A.F.F. (MAX)	-
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11	FITTING ROOM ROOM TAG HOOKS	4'-1" A.F.F. TO CENTERLINE	-

NOTE:
FITTING ROOM WALL LENGTHS VARY
SEE PLANS ABOVE FOR WALL DIMENSIONS



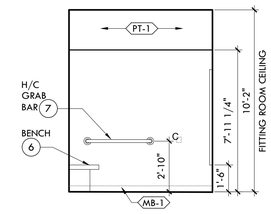
ELEVATION - ADA FITTING ROOM 5

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



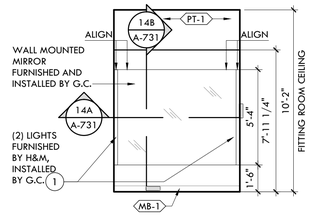
ELEVATION - ADA FITTING ROOM 6

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



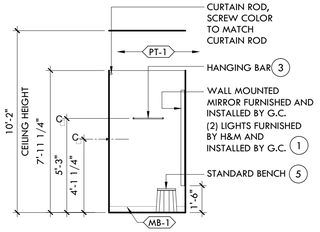
ELEVATION - ADA FITTING ROOM 7

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



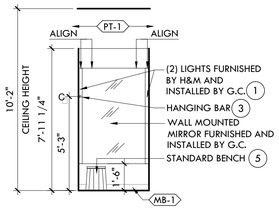
ELEVATION - ADA FITTING ROOM 8

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



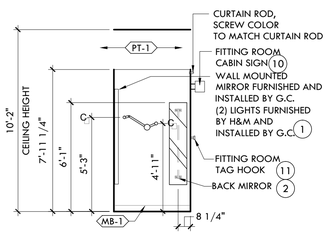
ELEVATION - FITTING ROOM (TYP.) 9

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



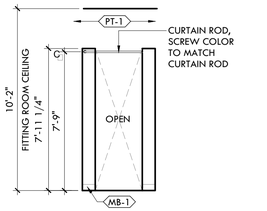
ELEVATION - FITTING ROOM (TYP.) 10

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



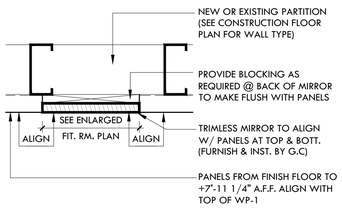
ELEVATION - FITTING ROOM (TYP.) 11

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



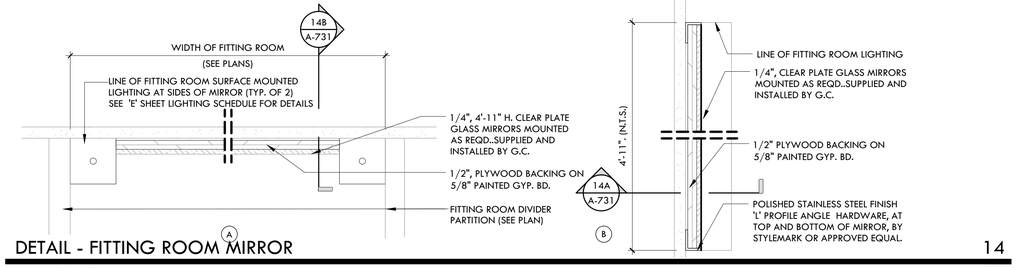
ELEVATION - FITTING ROOM (TYP.) 12

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



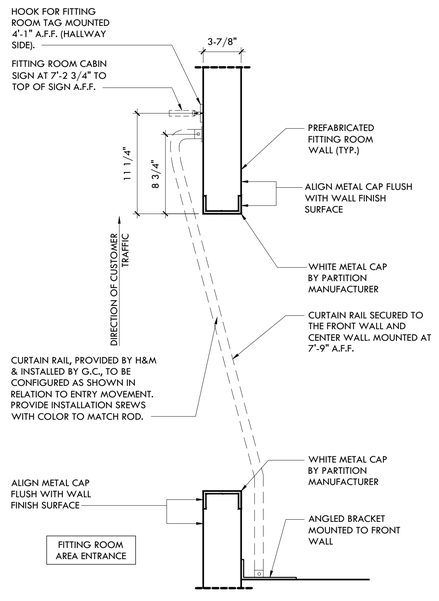
DETAIL - PANEL SPECIAL MIRROR 13

SCALE: NONE



DETAIL - FITTING ROOM MIRROR 14

SCALE: 3" = 1'-0"



DETAIL - FITTING ROOM DOOR 15

SCALE: 1 - 1/2" = 1'-0"

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

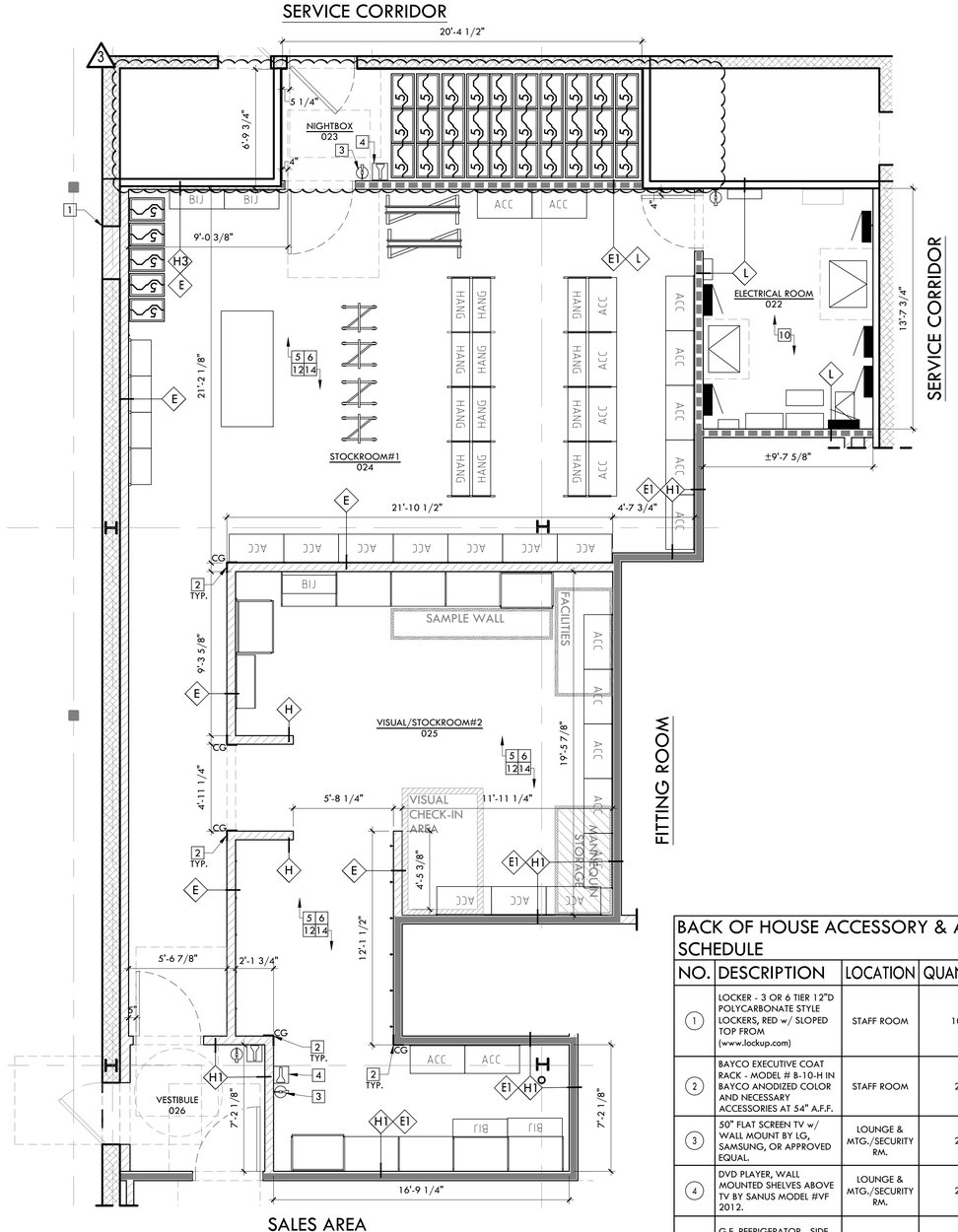
SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MB
SCALE:	AS NOTED

SHEET TITLE:
FITTING ROOM AREA #2
ELEVATIONS AND DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

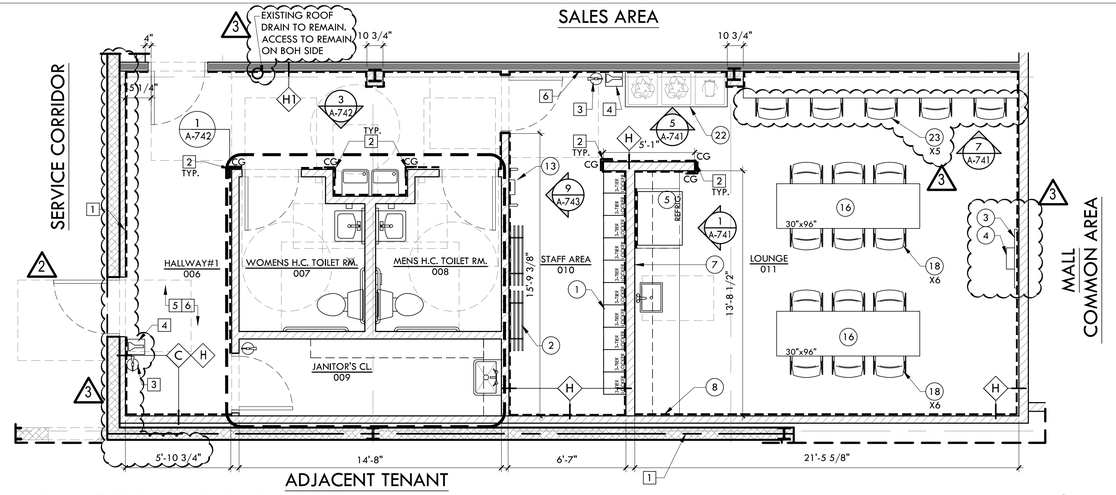
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DOB NO:



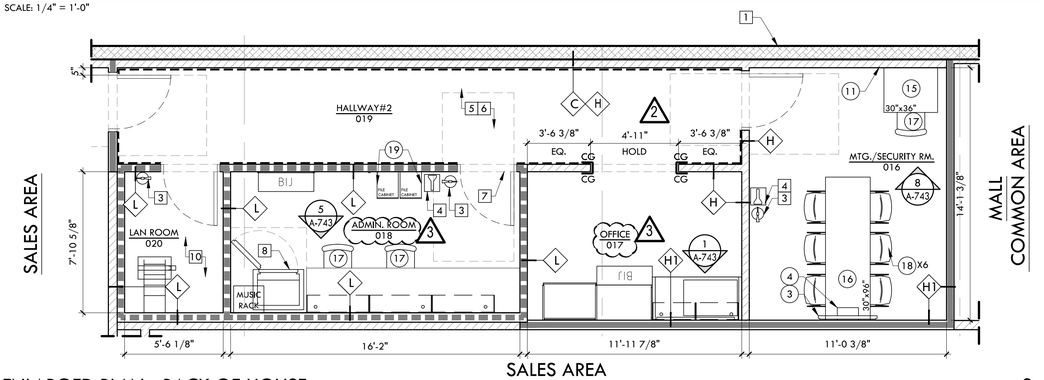
ENLARGED PLAN - REMOTE STOCK ROOM 1

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



ENLARGED PLAN - BACK OF HOUSE 2

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



ENLARGED PLAN - BACK OF HOUSE 3

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

BACK OF HOUSE ACCESSORY & APPLIANCE SCHEDULE

NO.	DESCRIPTION	LOCATION	QUANTITY	NOTES
1	LOCKER - 3 OR 6 TIER 12"D POLYCARBONATE STYLE LOCKERS, RED w/ SLOPED TOP FROM (www.lockup.com)	STAFF ROOM	10	SUPPLIED AND INSTALLED BY G.C. VERIFY QUANTITY & TYPE WITH H&M OPERATIONS
2	BAYCO EXECUTIVE COAT RACK - MODEL # B-10-H IN BAYCO ANODIZED COLOR AND NECESSARY ACCESSORIES AT 54" A.F.F.	STAFF ROOM	2	INSTALLED BY G.C.
3	50" FLAT SCREEN TV w/ WALL MOUNT BY LG, SAMSUNG, OR APPROVED EQUAL.	LOUNGE & MTG./SECURITY RM.	2	INSTALLED BY G.C. G.C. TO PROVIDE BLOCKING AS REQ'D.
4	DVD PLAYER, WALL MOUNTED SHELVES ABOVE TV BY SANUS MODEL #VF 2012.	LOUNGE & MTG./SECURITY RM.	2	INSTALLED BY G.C. G.C. TO PROVIDE BLOCKING AS REQ'D.
5	G.E. REFRIGERATOR - SIDE BY SIDE IN STAINLESS STEEL. MODEL #GSE25ESHSS w/BUILT IN WATER AND ICE DISPENSER OR EQ.	LOUNGE	1	INSTALLED BY G.C.

BACK OF HOUSE ACCESSORY & APPLIANCE SCHEDULE

NO.	DESCRIPTION	LOCATION	QUANTITY	NOTES
6	G.E. MICROWAVE - STAINLESS STEEL MODEL #PEB2060SMSS OR EQ.	LOUNGE	1	INSTALLED BY G.C.
7	SOAP DISPENSER - BOBRICK MODEL #B-2111	LOUNGE	1	INSTALLED BY G.C.
8	PAPER TOWEL ROLL DISPENSER - BOBRICK MODEL #B-72860	LOUNGE	1	INSTALLED BY G.C.
~~9~~	~~VENDING MACHINE - HEALTHY VENDING~~ PROVIDED BY H&M OPERATIONS.	~~LOUNGE~~ NOT USED	~~2~~	INSTALLED BY H&M
10	STRIP MOUNTED QUARTET 36" CORK MESSAGE BAR WITH ALUM. FRAME FROM STAPLES OR APPROVED EQUAL	ADMIN. ROOM	1	SUPPLIED BY H&M, INSTALLED BY G.C.
11	WHITE INFORMATION BOARD FROM STAPLES OR APPROVED EQUAL. NOTE: G.C. TO INSTALL PRIOR TO STORE OPENING PER H&M P.M. DIRECTION.	MTG./SECURITY RM.	1	SUPPLIED BY H&M, INSTALLED BY G.C.
12	BULLETIN BOARD (DECO TABLE AREA) FROM STAPLES OR APPROVED EQUAL	STOCK ROOM	1	SUPPLIED BY H&M, INSTALLED BY G.C.
13	SY-780 TIME CLOCK (6.5" x 10" x 4")	STAFF ROOM	1	INSTALLED BY H&M.

BACK OF HOUSE FURNITURE SCHEDULE

NO.	DESCRIPTION	MANU.	MODEL	LOCATION	QTY.	NOTES
~~14~~	~~LOUNGE TABLE (30"DIA.)~~	~~HAWORTH~~	NOT USED	~~MTG./SECURITY RM.~~	~~1~~	~~FURNISHED AND INSTALLED BY VENDOR~~
15	WORK TABLE (SECURITY DESK)	HAWORTH	30" x 36"	MTG./SECURITY RM.	1	FURNISHED AND INSTALLED BY VENDOR
16	LOUNGE TABLE (30"x96")	HAWORTH	SPLH-1452	LOUNGE/ SECURITY RM.	3	FURNISHED AND INSTALLED BY VENDOR
17	OFFICE CHAIR	HAWORTH	Z831-1042	ADMIN RM. / SECURITY RM.	3	FURNISHED AND INSTALLED BY VENDOR
18	VERY CHAIRS	HAWORTH	SCH-44-OS	LOUNGE & MTG./SECURITY RM.	18	FURNISHED AND INSTALLED BY VENDOR
19	LATERAL FILE	HAWORTH	JCPZ-0230-SJ	ADMIN. RM.	2	FURNISHED AND INSTALLED BY VENDOR
~~20~~	~~STORAGE CABINET~~	~~HAWORTH~~	NOT USED	~~LOUNGE~~	~~1~~	
~~21~~	~~4 DRS. FIR CABINET~~	~~WILSON SAFE CO.~~	NOT USED	~~LOUNGE~~	~~1~~	
22	TRASH COUNTER	BY G.C.	SEE SHT. A-741	LOUNGE	1	FURNISHED AND INSTALLED by G.C.
23	VERY STOOLS	HAWORTH	SPL0-9862	LOUNGE	5	FURNISHED AND INSTALLED BY VENDOR

BACK OF HOUSE KEY NOTES

NO.	DESCRIPTION
1	TENANT LEASE LINE. PROJECT TEAM TO VERIFY IN FIELD.
2	ALL OUTER WALLS CORNERS TO RECEIVE FULL HEIGHT ACROVYN 4000 SM-20N CORNER GUARDS.
3	2A10BC FIRE EXTINGUISHER PER CODE PURCHASED FROM H&M VENDOR BY G.C. AND INSTALLED/WALL MOUNTED BY G.C. COORDINATE LOCATIONS WITH FIRE MARSHALL. G.C. TO INSTALL "CO2" TYPE EXTINGUISHERS IN ALL ELECTRICAL AND LAN. ROOM AREAS (IF ALLOWED BY CODE). ALL FIRE EXTINGUISHERS SHALL BE CLEARLY MARKED WITH A SIGN PLACED AT MINIMUM 5'-10 7/8" A.F.F. AND MAXIMUM OF 6'-6 3/4" A.F.F.
4	G.C. TO PROVIDE RECEPTACLE/POWER FOR DORCY 41-1032 FLASHLIGHT. REFER TO ELECTRICAL PLANS FOR MORE INFORMATION.
5	G.C. TO INSTALL CLEAR SIGNAGE INDICATING WHERE THE EGRESS ROUTE CONTINUES TO.
6	G.C. TO INSTALL EMERGENCY EVACUATION PLAN. PLAN TO BE LAMINATED AND EASILY LEGIBLE AND VISIBLE.
7	OWNERS VENDOR TO INSTALL CCTV CAMERA ON OUTSIDE OF ADMIN. OFFICE DOOR WITH MONITOR INSTALLED INSIDE OF DOOR. REFER TO M.E.P. DRAWINGS FOR MORE INFORMATION.

BACK OF HOUSE KEY NOTES, CONTIUED

NO.	DESCRIPTION
8	FREESTANDING SAFE PROVIDED AND INSTALLED BY TENANT'S VENDOR. COORDINATE WITH TENANT ON FINAL LOCATION. G.C. TO INSTALL TWO (2) WALL STOPS FOR SAFE DOOR HANDLE. COORDINATE LOCATION OF STOPS WITH SAFE DOOR SWING AND HANDLE LOCATION. G.C. TO INSTALL ONE (1) LAYER OF 1/2" THK. F.R.T. PLYWOOD BLOCKING BETWEEN STUDS IN LOCATION OF WALL STOPS. WALL STOP TO BE "IVES - WS402CCV - US26D"
9	G.C. TO SUPPLY AND INSTALL FLEXIBLE 15 MIN. TIMER FOR IRON IN THIS AREA. REFER TO M.E.P. DRAWINGS FOR MORE INFORMATION.
10	G.C. TO ADD ONE (1) LAYER OF UNPAINTED 3/4" F.R.T. PLYWOOD TO 8'-0" A.F.F. ON ALL WALLS OF LAN. ROOM AND ELECTRICAL ROOM FOR ALL ELECTRICAL/DATA/ETC. EQUIPMENT. REFER TO PARTITION TYPES ON SHEET A-700 FOR MORE INFO. G.C. TO INSTALL PLYWOOD "STAMP-SIDE OUT" SO FIRE RATING STAMP IS VISIBLE AFTER INSTALLATION.
11	HOLD COLUMN ENCLOSURE TIGHT TO EX'G. COLUMN, V.I.F.
12	FREESTANDING STOCK FIXTURES TO BE SECURED TO FLOOR WITH 'L' BRACKETS. COORDINATE WITH H&M REP PRIOR TO INSTALLATION.
13	G.C. TO SUPPLY AND INSTALLED ADDITIONAL TRASH (IN ADDITION TO TRASH COUNTER) WITH FLIP-UP COVER.
14	G.C. TO PAINT ALL PLYWOOD STRIPS (PT-1)

MATERIALS & HARDWARE LEGEND

ITEM	DESCRIPTION
PLAM-1	WHITE LAMINATE FORMICA #949-58, MATTE FINISH
CT-3	3" X 6" CERAMIC TILE #0790 ARTIC WHITE, RITTENHOUSE SQUARE BY DALTILE IN RUNNING BOND PATTERN. GROUT: MAPEI - COLOR #38 AVALANCHE
CORIAN-1	1" CORIAN - "DOVE"
CABINET PULLS	SUGATSUNE SATIN STL. ST. PULLS MODEL # SWF-640
DRAWER SLIDE	HAFELE "ACCURIDE 3834SC" # 422.86.951 w/ AUTOMATIC CLOSING HARDWARE
S.S. HANDLE	HAFELE #117.05.600 (OPTION FOR CABINET PULLS)
CONCEALED HINGE	HAFELE MODEL: C2PFA99 # 329.07.609
SHELF CLIP	HAFELE # 282.22.013
PANEL FASTENER	KEKU PUSH-IN PANEL - HAFELE # 262.50.313

NOTE: FOR LOCATION OF DECO TABLE REF. DWG A200. G.C. TO PROVIDE AND INSTALL DECO TABLE. PROVIDE BLOCKING INSIDE PARTITION FOR PROPER INSTALLATION

NOTE: SEE SHT. A-200 FOR WALL HATCH LEGEND

NOTE: REFER TO ELECTRICAL DWGS. FOR EXACT LOCATIONS OF ELECTRICAL/DATA RECEPTACLES. COORDINATE w/ H&M PM

BACK OF HOUSE GENERAL NOTES

A. USE FULL HIGH ACROVYN CORNER GUARDS IN ALL BACK OF HOUSE AREAS.
B. IN B.O.H. AREAS INSTALL MARLITE STANDARD STANDARD FRP 4'-0" HIGH - S 100 G WHITE WITH M370 TOP EDGE AND M350 INSIDE CORNERS. USE SEAM JOINTS BETWEEN SECTIONS. USE STAINLESS STEEL CORNER GUARDS TO 8'-0" A.F.F. AT ALL OUTSIDE CORNERS. REFER TO DETAILS ON THIS SHEET AND SHEET A-742 FOR MORE INFORMATION.
C. IN BACK OF HOUSE AREAS: WHITE F.R.P. TO BE GLUED TO B.O.H. WALLS. REFER TO SHEET A-740 FOR F.R.P. LOCATIONS AND FOR MORE INFORMATION.
D. ALL F.R.P. PANELS TO HAVE BUTT JOINTS. CAULK WITH MATCHING COLOR CAULK.
E. STOP PANELS 1/8" FROM CORNERS TO ACCOMMODATE EXPANSION.
F. G.C. TO INSTALL F.R.T. PLYWOOD IN LAN AND ELECTRICAL ROOMS WITH STAMP SIDE OUT. DO NOT PAINT LAN ROOM AND ELECTRICAL ROOM WALLS AND CEILINGS.

CABINET & HARDWARE GENERAL NOTES

G. DRAWER SLIDES TO BE RATED FOR 100 LBF & SHALL BE FULL EXTENSION, SIDE MOUNTED, ZINC PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS, BHMA A156.9, B05091.
H. PROVIDE 2"X2" STEEL TUBES BELOW COUNTERTOPS WHERE SHOWN OR REQUIRED FOR EQUIPMENT ABOVE
I. ALL EXPOSED HARDWARE SHALL BE NO. 640 FINISHED.
J. FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BHMA A156.9, B01602, SELF-CLOSING
K. ADJUSTABLE SHELF STANDARDS & SUPPORTS: BHMA A156.9, B04071: WITH SELF RESTS, B04081
L. PROVIDE STAINLESS STEEL PINS FOR ALL ADJUSTABLE SHELVING

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461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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REVISION:
2 04.01.16 LL/CLIENT COMMENTS
3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

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PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: MB/AC
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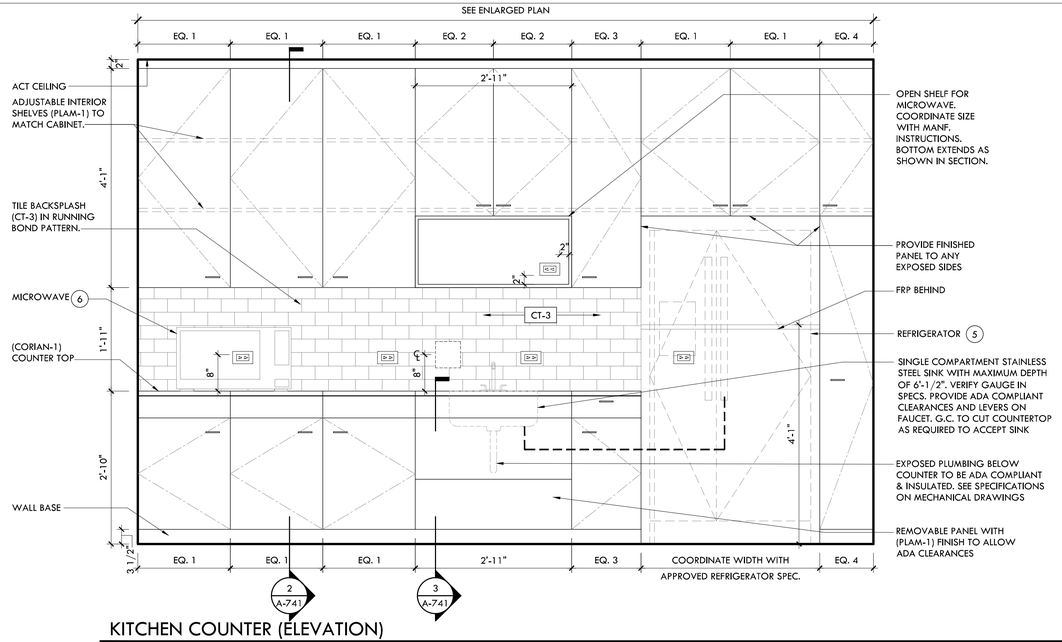
SHEET TITLE:
ENLARGED BACK OF HOUSE PLANS

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:
A-740.03

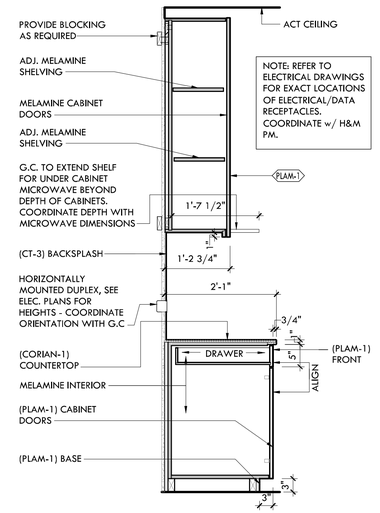
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NOTE:
REFER SHEET A-740 FOR SCHEDULES, AND GENERAL NOTES



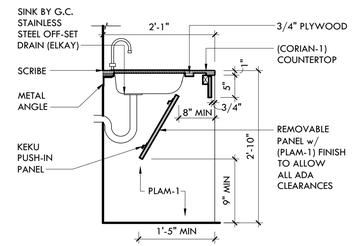
KITCHEN COUNTER (ELEVATION) 1

SCALE: 3/4" = 1'-0"



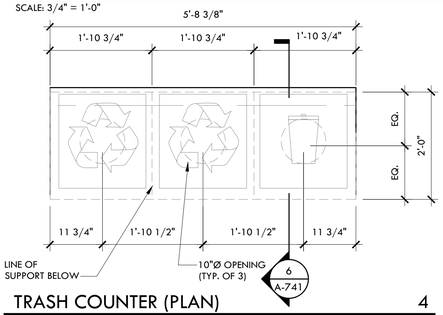
KITCHEN COUNTER (SECTION) 2

SCALE: 3/4" = 1'-0"



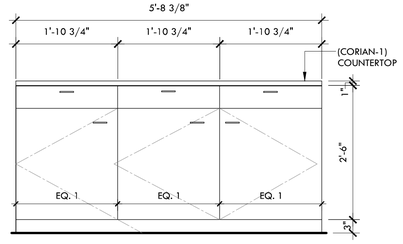
ADA SINK (SECTION) 3

SCALE: 3/4" = 1'-0"



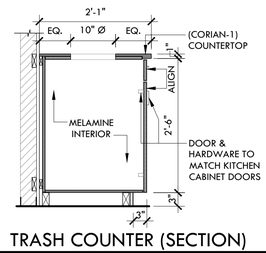
TRASH COUNTER (PLAN) 4

SCALE: 3/4" = 1'-0"



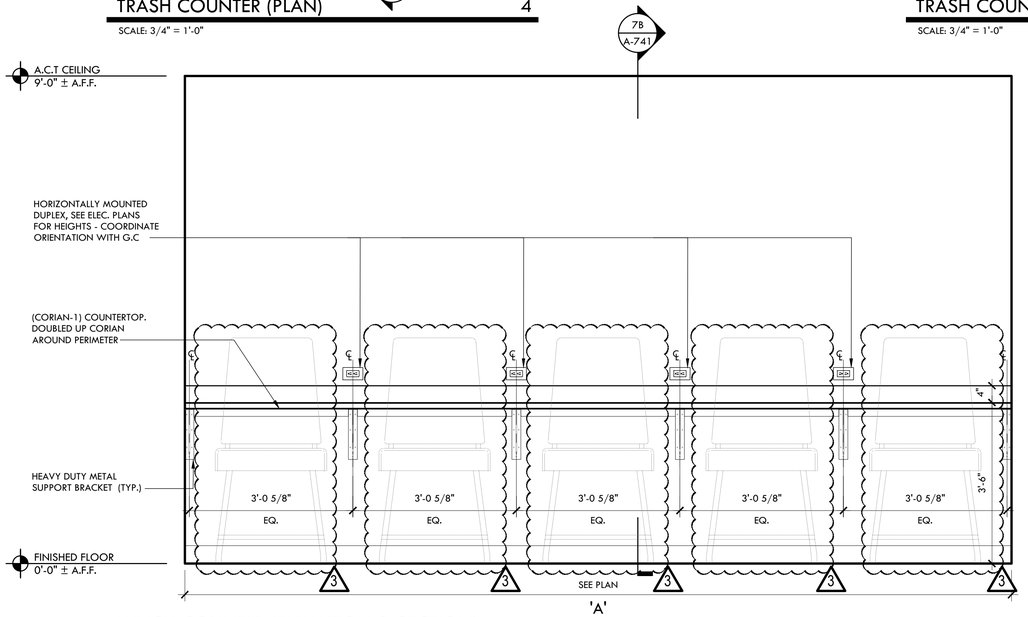
TRASH COUNTER (ELEVATION) 5

SCALE: 3/4" = 1'-0"



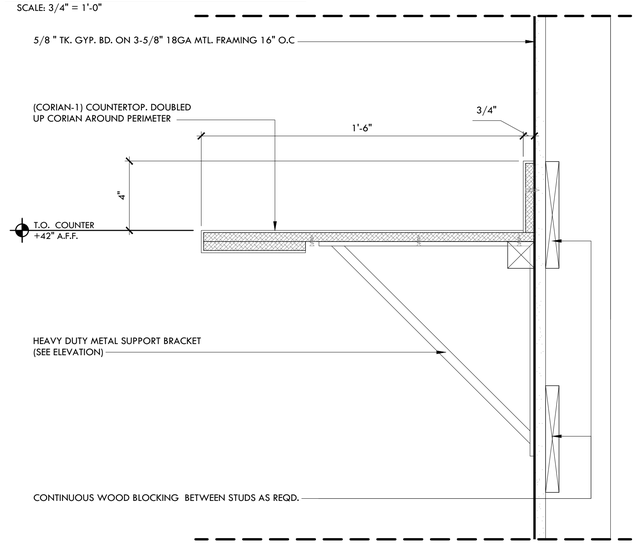
TRASH COUNTER (SECTION) 6

SCALE: 3/4" = 1'-0"



LUNCH COUNTER (ELEVATION & SECTION) 7

SCALE: 3/4" = 1'-0"



LUNCH COUNTER (DETAIL) 8

SCALE: 3" = 1'-0"

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PARAMUS, NJ 07652
973.253.9393 TEL
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REVISION:

3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
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PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MB
SCALE:	AS NOTED

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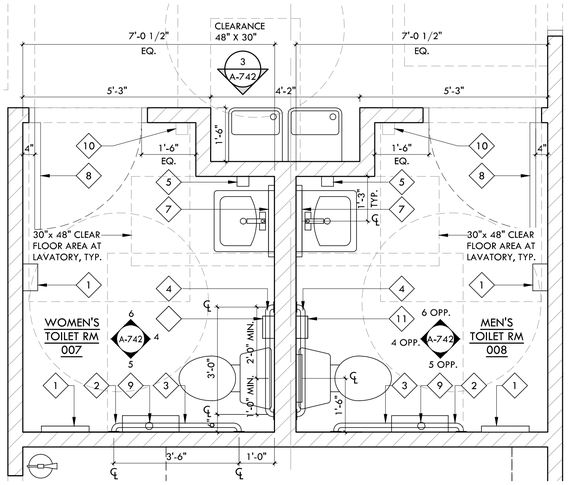
BOH MILLWORK DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

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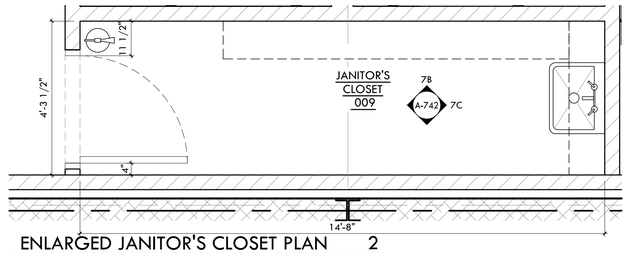
A-741.03

DOB NO:



ENLARGED TOILET ROOM PLAN 1

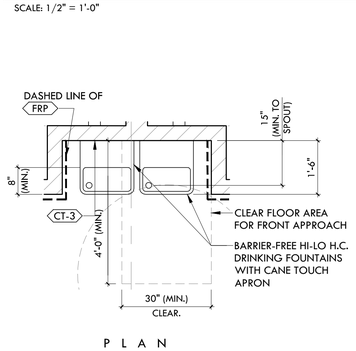
SCALE: 1/2" = 1'-0"



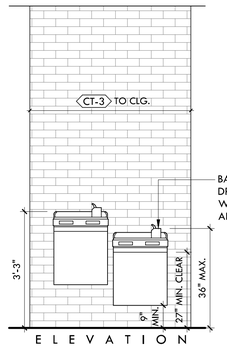
TOILET FLOOR NOTES: USE DAL-SEAL WATER PROOFING SHEET BENEATH FLOOR, 6" UP (ABOVE CONC. SLAB). USE NOBLE FLEX DRAIN FLASHING AT FLOOR DRAINS

ENLARGED JANITOR'S CLOSET PLAN 2

SCALE: 1/2" = 1'-0"



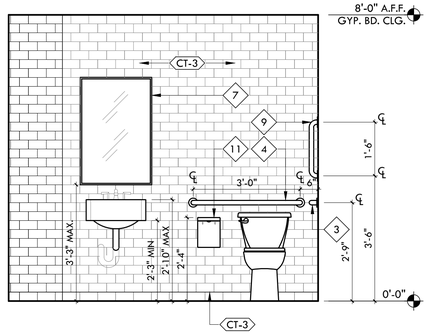
PLAN



ELEVATION

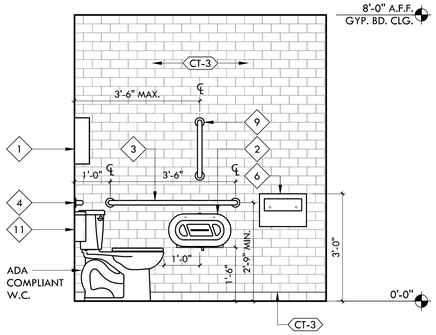
ELEV./PLAN - BARRIER-FREE HI-LO WATER COOLER 3

SCALE: 1/2" = 1'-0"



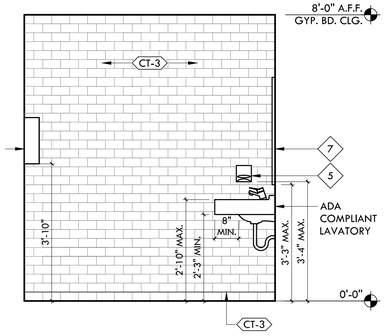
ELEVATION - TOILET ROOM TYP. 4

SCALE: 1/2" = 1'-0"



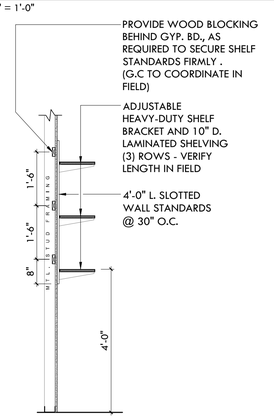
ELEVATION - TOILET ROOM TYP. 5

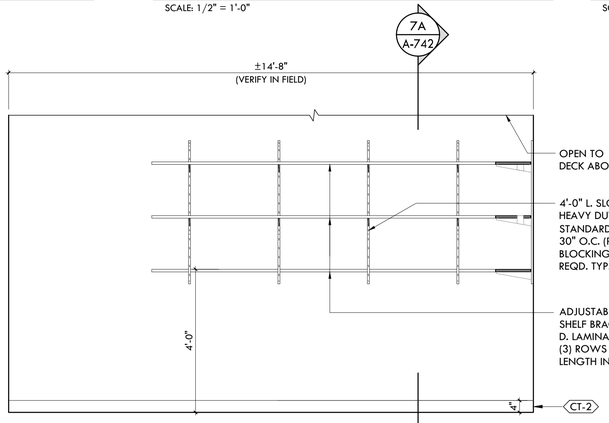
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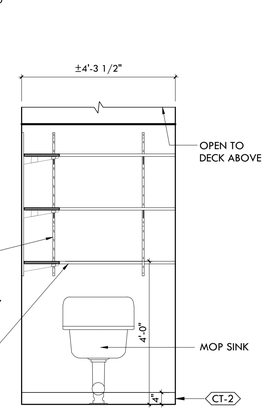


ELEVATION - TOILET ROOM TYP. 6

SCALE: 1/2" = 1'-0"







ELEVATIONS/SECTIONS - JANITOR'S CLOSET 7

SCALE: 1/2" = 1'-0"

TOILET ROOM ACCESSORY SCHEDULE

NO.	DESCRIPTION	MANUFACTURER	MODEL NUMBER	LOCATION
1	HIGH SPEED HAND DRYER	DYSON	DYSON AIRBLADE V AB12 WHITE, PROVIDED AND INSTALLED BY G.C.	1 PER TOILET ROOM
2	TOILET PAPER DISPENSER	BOBRICK	ITEM # B-2892 TWIN JUMBO ROLL BATH TISSUE SURFACE MOUNTED SATIN STAINLESS STEEL	1 PER TOILET ROOM
3	42" GRAB BAR @ SIDE	BOBRICK	1 1/2" DIA. STAINLESS STEEL GRAB BAR w/ CONCEALED MOUNTING B-6806X42	1 PER HANDICAPPED TOILET ROOM
4	36" GRAB BAR @ REAR	BOBRICK	1 1/2" DIA. STAINLESS STEEL GRAB BAR w/ CONCEALED MOUNTING B-6806X36	1 PER HANDICAPPED TOILET ROOM
5	SOAP DISPENSER	BOBRICK	ITEM # B-40 BOBRICK SOAP DISPENSER BLACK - 5-13/16" W x 3-3/8" D x 6-7/8" H	1 PER LAVATORY
6	TOILET SEAT COVER DISPENSER	BOBRICK	ITEM #: B-221 TOILET SEAT COVER DISPENSER SURFACE MOUNTED SATIN STAINLESS STEEL	1 PER TOILET COMPARTMENT
7	PLATE GLASS MIRROR w/ STAINLESS STEEL FRAME	BOBRICK	B-290 2436	1 PER LAVATORY
8	COAT HOOK	BOBRICK	B-2116 MTD. AT 39" A.F.F. FOR ADA	1 PER TOILET COMPARTMENT
9	18" VERTICAL GRAB BAR	BOBRICK	1 1/2" DIA. STAINLESS STEEL GRAB BAR w/ CONCEALED MOUNTING B-6806X18	1 PER HANDICAPPED TOILET ROOM
10	AIR FRESHENER	-	WALL MOUNTED AIR FRESHENER	1 PER TOILET ROOM
11	SANITARY NAPKIN DISPOSAL	BOBRICK	CONTURA SERIES SURFACE-MOUNTED B-270	1 PER WOMEN'S TOILET ROOM
12	~~TOILET PARTITION~~	~~BOBRICK~~	~~CUSTOM SIZES, COLOR TBD~~	~~TOILET ROOM~~
	NOT USED			
13	JANITOR'S SINK	FIAT	FIAT NO. MSB 2424 W/ CHICAGO NO. 897 FAUCET AND FIAT RIM GUARD, MOP HANGER, HOSE W/ BRACKET AND STAINLESS STEEL SPLASH GUARD ON WALL.	1 PER JANITOR'S CLOSET
14	24 GALLON (2) DOOR SAFETY CABINET: 44"H. x 43"W. x 12"D.	EAGLE	1976 - SURFACE COLOR: YELLOW. COORDINATE SIZE PER PLAN	1 PER JANITOR'S CLOSET

TOILET ROOM ACCESSORY NOTES

1. NO OTHER MANUFACTURER SUBSTITUTIONS SHALL BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER FIVE (5) DAYS BEFORE BIDDING.
2. CONTRACTOR SHALL SUBSTITUTE MODELS FOR LOW FLUSH WATER CLOSETS ONLY AS REQUIRED BY LOCAL AND STATE CODES.
3. FIXTURES SHALL BE MOUNTED RIGID TO WALLS AND FLOORS.
4. ALL PLUMBING FIXTURES SHALL BE WATER SAVING TYPE IN ACCORDANCE WITH CITY GOVERNING ADOPTED CODES AD REGULATIONS.
5. WATER CLOSET TO BE PROVIDED WITH OSCILLATING FLUSH CONTROL HANDLE. OPERATING AT NOT GREATER THAT 5 LB. FORCE AND W/O EXCESSIVE BODY MOVEMENT.
6. LAVATORY: PROVIDED NEW FAUCET CONTROLS OPERABLE WITH ONE HAND AND NOT REQUIRED GRASPING, PINCHING OR TWISTING.
7. LAVATORY: PROVIDE WITH NO ABRASIVE SURFACES UNDERNEATH.
8. GRAB BARS TO HAVE A 1 1/2" TO 1 1/4" CROSS SECTION. PROVIDE 1 1/2" CLEARANCE BETWEEN BAR AND WALL AND MOUNTED TO WITHSTAND A FORCE OF 300 LBS.
9. WATER CLOSET FLUSH VALVE TO BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA.
10. ALL TOILET ACCESSORIES INCLUDING, BUT NOT LIMITED TO, GRAB BARS, TOILET PAPER HOLDERS, ETC. TO BE INSTALLED PER LOCAL ACCESSIBILITY CODE.
11. FOR ALTERNATE FLOOR WATERPROOFING: GC TO USE DAL-SEAL WATER PROOFING SHEET BENEATH FLOOR 6" UP (ABOVE CONCRETE SLAB). USE NOBLE FLEX DRAIN FLASHING AT FLOOR DRAINS.

1	2	3	4	5	6	7	8	9	11	SEE PLUMBING DRAWINGS	SEE PLUMBING DRAWINGS
DYSON, AIRBLADE V AB-12	BOBRICK B-2892	BOBRICK B-6806	BOBRICK B-6806	BOBRICK B-2111	BOBRICK B-221	BOBRICK B-290 2436		BOBRICK B-6806X18	BOBRICK B-270		
3'-10"	17"	2'-9"	2'-9"	3'-4"	3'-6"	3'-3"	4'-0"	3'-5"	2'-4"	2'-3" MIN. 2'-10" MAX.	1'-5" MAX. RIM HT
WARM AIR HAND DRYER	TOILET PAPER DISPENSER TWIN JUMBO ROLL	42" GRAB BAR HCDP	36" GRAB BAR HCDP	SOAP DISPENSER	TOILET SEAT COVER DISPENSER	MIRROR w/ STL. ST. FRAME	COAT HOOK	VERTICAL GRAB BAR	SANITARY NAPKIN DISPOSAL	ADA COMPLIANT LAVATORY; FLUSH CONTROL AT WIDE SIDE; 1'-5" MIN. 1'-7" MAX. — ADA COMPLIANT TOILET	ADA COMPLIANT URINAL

NOTE:
1. ELEVATIONS SHOW OUTLINE OF ITEMS ONLY. FOR ROUGH WALL OPENING DIMENSIONS AND PLACEMENT OF REQUIRED ELECTRICAL AND PLUMBING CONNECTIONS, SEE CURRENT TECHNICAL DATA SHEET AVAILABLE FOR EACH MODEL LISTED IN TOILET ROOM ACCESSORY SCHEDULE.
2. DIMENSIONS INDICATE AVERAGE MOUNTING HEIGHT FROM TOP OF ROUGH WALL OPENING (AT RECESSED ITEMS) OR TOP OF UNIT (AT SURFACE MOUNTED ITEMS) TO FINISHED FLOOR FOR CONDITIONS GENERALLY ENCOUNTERED IN PUBLIC WASHROOMS. MOUNTING HEIGHTS ARE IN COMPLIANCE WITH ANSI A117.1
3. G.C. TO INSTALL WALL TILE (CT-3) UP TO U.S. OF CEILING WHERE URINALS ARE INSTALLED. PROVIDE BULLNOSE AT TOP AS REQUIRED.

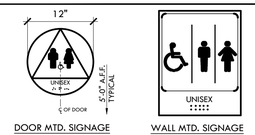
ACCESSIBLE SIGNAGE NOTES

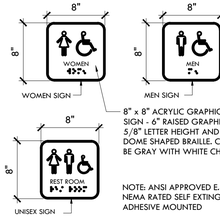
1. DOORWAYS INTO UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4" THICK, 12" IN DIAMETER, WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12" DIAMETER. THE GEOMETRIC SYMBOL SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" ABOVE THE FINISHED FLOOR AND SHALL BE OF A COLOR AND CONTRAST DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR.
2. A PERMANENT IDENTIFICATION SIGN, INCLUDING RAISED LETTERS ACCOMPANIED BY BRAILLE, SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, THE SIGN SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" ABOVE THE FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING.
3. RAISED CHARACTERS OR SYMBOLS SHALL CONFORM TO THE FOLLOWING:
   A. LETTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.
   B. RAISED CHARACTERS OR SYMBOLS SHALL BE A MINIMUM OF 5/8" HIGH.
   C. PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE A MINIMUM OF 6" IN HEIGHT.
   D. CONTRACTED GRADE 2 BRAILLE SHALL BE USED ON THE PERMANENT IDENTIFICATION SIGN. DOTS SHALL BE 1/10" ON CENTERS IN EACH CELL WITH 2/10" SPACE BETWEEN CELLS. DOTS SHALL BE RAISED A MINIMUM OF 1/40" ABOVE THE BACKGROUND.
   E. LETTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL HAVE A WIDTH TO HEIGHT RATIO OF BETWEEN 3:5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10.
   F. CHARACTERS AND NUMBERS ON THE PERMANENT IDENTIFICATION SIGN SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AND UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED.
   G. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACK- GROUND.

ALL SIGNAGE SHALL CONFORM WITH ADA ACCESSIBILITY GUIDELINES:

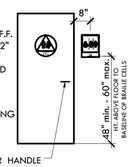
1. LETTERS & NUMERALS MUST BE RAISED 1/32" FROM SIGN SURFACE
2. CHARACTER HEIGHT MUST BE AT LEAST 5/8" BUT NOT EXCEED 2"
3. TYPE STYLE FOR LETTERS AND NUMBERS SHALL BE SANS SERIF OR SIMPLE SERIF
4. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW PICTOGRAM

ACCESSIBLE SIGNAGE





PLASTIC LAMINATE SECURED TO CENTER OF DOOR FACE +60" A.F.F. (WOMEN SYMBOL 1/4" THICK 12" DIA.) (MENS SYMBOL 1/4" THICK TRIANGLE 12" SIDES) COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM COLOR AND CONTRAST OF THE DOOR. USE NEMA RATED SELF - EXTINGUISHING ADHESIVE TO MOUNT.



SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
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ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

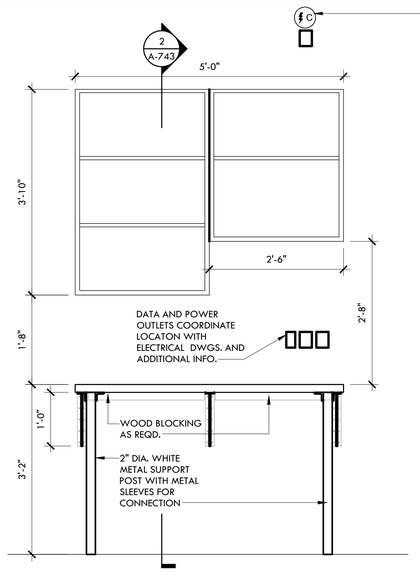
SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG
SCALE:	AS NOTED

SHEET TITLE:
TOILET ROOM DETAILS & SPECS.

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

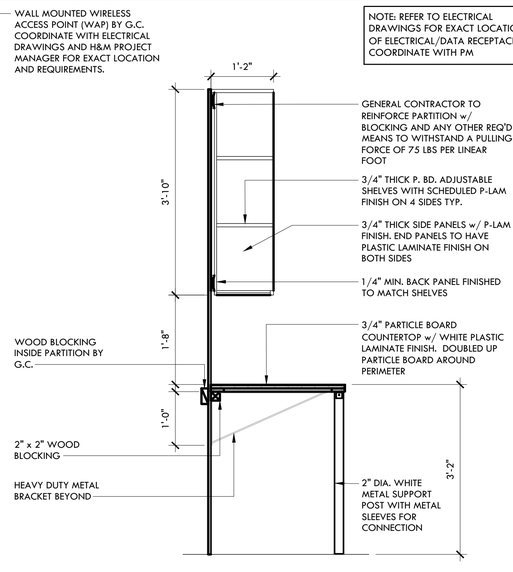
SHEET NO:
A-742.00

DOB NO:



ELEVATION - DECO TABLE (TYP.) 1

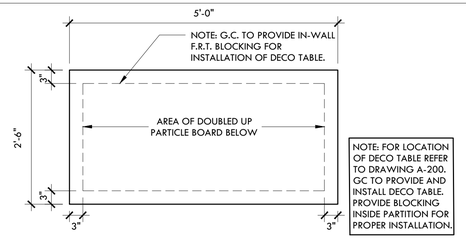
SCALE: 3/4" = 1'-0"



NOTE: REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL/DATA RECEPTACLES. COORDINATE WITH PM

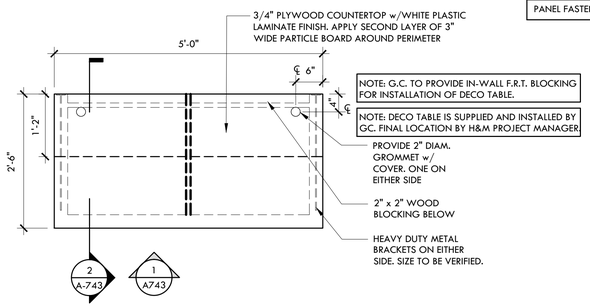
SECTION -DECO TABLE 2

SCALE: 3/4" = 1'-0"



PARTICLE BD. FRAMING PLAN FOR DECO TABLE 3

SCALE: 3/4" = 1'-0"



PLAN FOR DECO TABLE 4

SCALE: 3/4" = 1'-0"

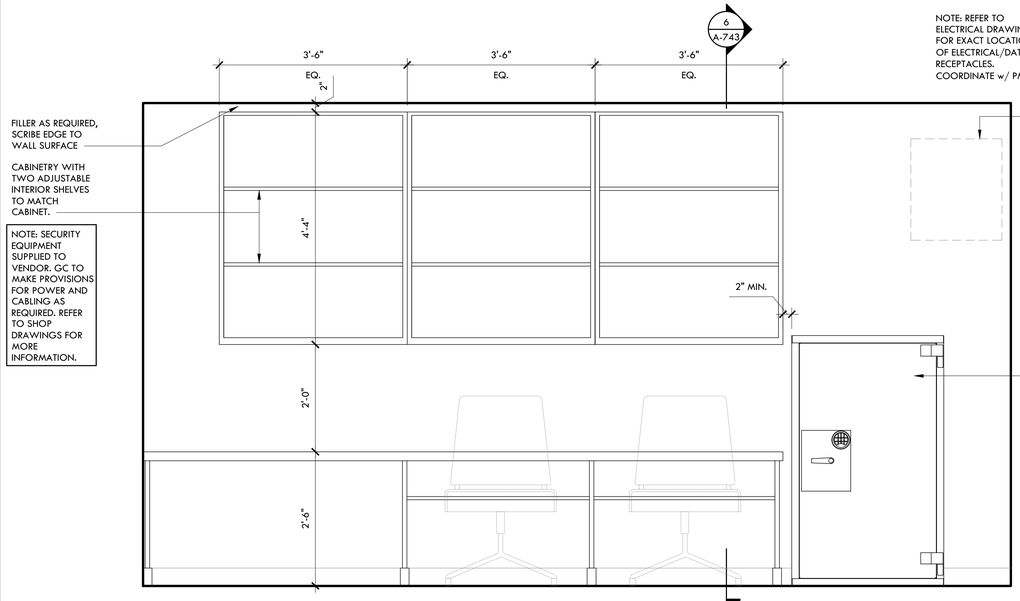
NOTE: ALL BACK OF HOUSE CONVENIENCE OUTLETS IN OFFICES, KITCHEN AND VISUAL AREAS TO BE EQUIPPED WITH WALL SOCKETS WITH BUILT-IN TIMER DEVICES.
COORDINATE ELECTRICAL REQUIREMENTS / HEIGHT WITH P.M. & ELEC. DWG'S.

MATERIALS & HARDWARE LEGEND

SYMBOL	DESCRIPTION
P-LAM	WHITE LAMINATE FORMICA #949-58, MATTE FINISH
CT-3	3" X 6" CERAMIC TILE #0790 ARTIC WHITE, RITTENHOUSE SQUARE BY DALTILE IN RUNNING BOND PATTERN. GROUT: MAPEI - COLOR #38 AVALANCHE
CORIAN-1	1" CORIAN - "DOVE"
CABINET PULLS	SUGATSUNE SATIN STL. ST. PULLS MODEL # SWF-640
DRAWER SLIDE	HAFELE "ACCURIDE 3834SC" # 422.86.951 w/ AUTOMATIC CLOSING HARDWARE
S.S. HANDLE	HAFELE # 117.05.600 (OPTION FOR CABINET PULLS)
CONCEALED HINGE	HAFELE MODEL: C2PFA99 # 329.07.609
SHELF CLIP	HAFELE # 282.22.013
PANEL FASTENER	HAFELE # 262.50.313 - KEKU PUSH-IN PANEL

CABINET & HARDWARE GENERAL NOTES:

1. DRAWER SLIDES TO BE RATED FOR 100 LBF & SHALL BE FULL EXTENSION, SIDE MOUNTED, ZINC PLATED STEEL DRAWER SLIDES WITH STEEL BALL BEARINGS, BHMA A156.9, B05091.
2. PROVIDE 2"X2" STEEL TUBES BELOW COUNTERTOPS WHERE SHOWN OR REQUIRED FOR EQUIPMENT ABOVE
3. ALL EXPOSED HARDWARE SHALL BE NO. 640 FINISHED.
4. FRAMELESS CONCEALED HINGES (EUROPEAN TYPE): BHMA A156.9, B01602, SELF-CLOSING
5. ADJUSTABLE SHELF STANDARDS & SUPPORTS: BHMA A156.9, B04071: WITH SELF RESTS, B04081
6. PROVIDE STAINLESS STEEL PINS FOR ALL ADJUSTABLE SHELVING



ELEVATION - COUNTER, SHELVING & SAFE 5

SCALE: 3/4" = 1'-0"

ADMIN. RM.

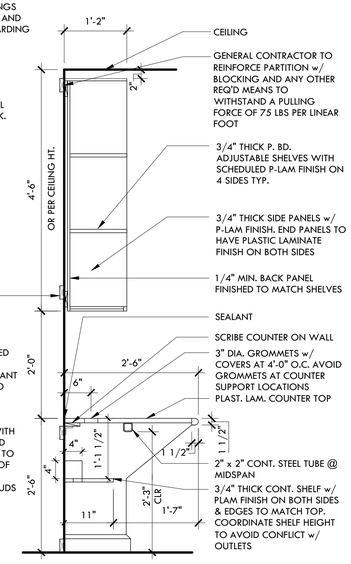
NOTE: REFER TO ELECTRICAL DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL/DATA RECEPTACLES. COORDINATE w/ PM.

NOTE: GENERAL CONTRACTOR PROVIDED MILLWORK WILL REQUIRE SHOP DRAWINGS SUBMITTED TO TENANT AND ARCHITECT UPON AWARDING OF CONTRACT.

AUDIO RACK ABOVE SAFE. G.C. TO PROVIDE BLOCKING BEHIND WALL TO MOUNT AUDIO RACK. REFER TO ELECTRICAL SHTS. FOR MORE INFO.

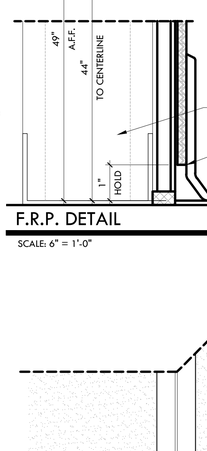
GC TO PROVIDE IN-WALL F.R.T. WOOD BLOCKING, INSTALLED VERTICALLY FROM FLOOR TO AVAILABLE BRACING ABV, FOR SECURING OF STANDARDS (TYP).

FREESTANDING SAFE PROVIDED AND INSTALLED BY TENANT'S VENDOR. COORDINATE WITH TENANT FINAL LOCATION. GC TO INSTALL TWO (2) WALL STOPS FOR SAFE DOOR HANDLE. COORDINATE LOCATION OF STOPS WITH SAFE DOOR SWING AND HANDLE LOCATION. GC TO INSTALL ONE (1) LAYER OF 1/2" F.R.T. PLYWOOD BLOCKING BETWEEN STUDS IN LOCATION OF WALL STOP TO BE "IVES - WS402CCV - US26D."



SECTION -COUNTERTOP & SHELVING 6

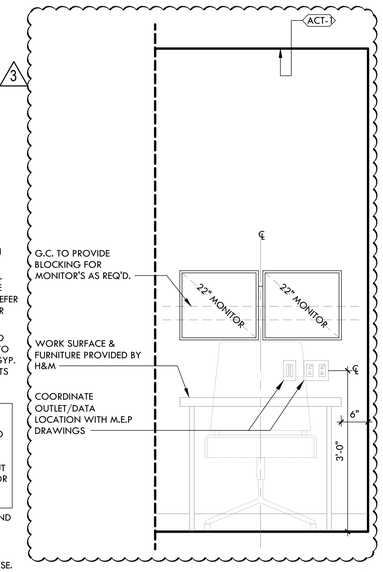
SCALE: 3/4" = 1'-0"



F.R.P. DETAIL 7

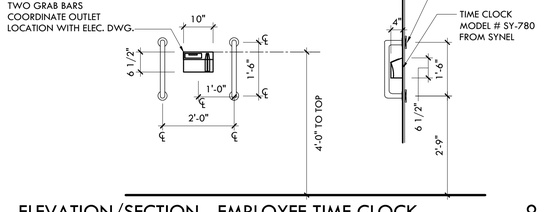
SCALE: 6" = 1'-0"

B.O.H.



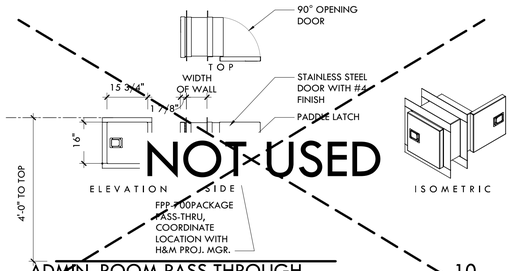
ELEVATION - SECURITY OFFICE DESK 8

SCALE: 3/4" = 1'-0"



ELEVATION/SECTION - EMPLOYEE TIME CLOCK 9

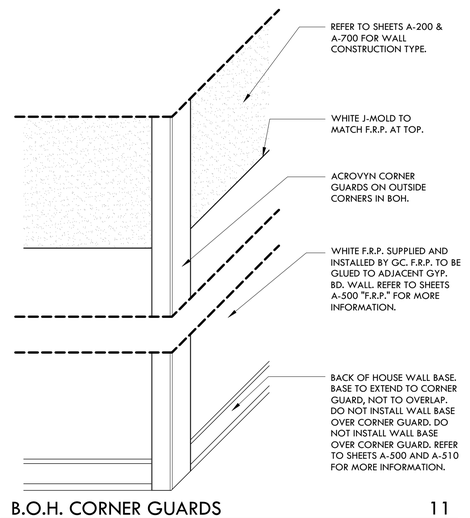
SCALE: 1/2" = 1'-0"



NOT USED

ADMIN. ROOM PASS THROUGH 10

SCALE: N.T.S.



B.O.H. CORNER GUARDS 11

SCALE: 3/4" = 1'-0"

B.O.H.

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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REVISION:

3 04.13.16 FIELD COND'S./IT COMMENTS

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT

SA PROJECT NO.:	150914-006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	MG
SCALE:	AS NOTED

SHEET TITLE:

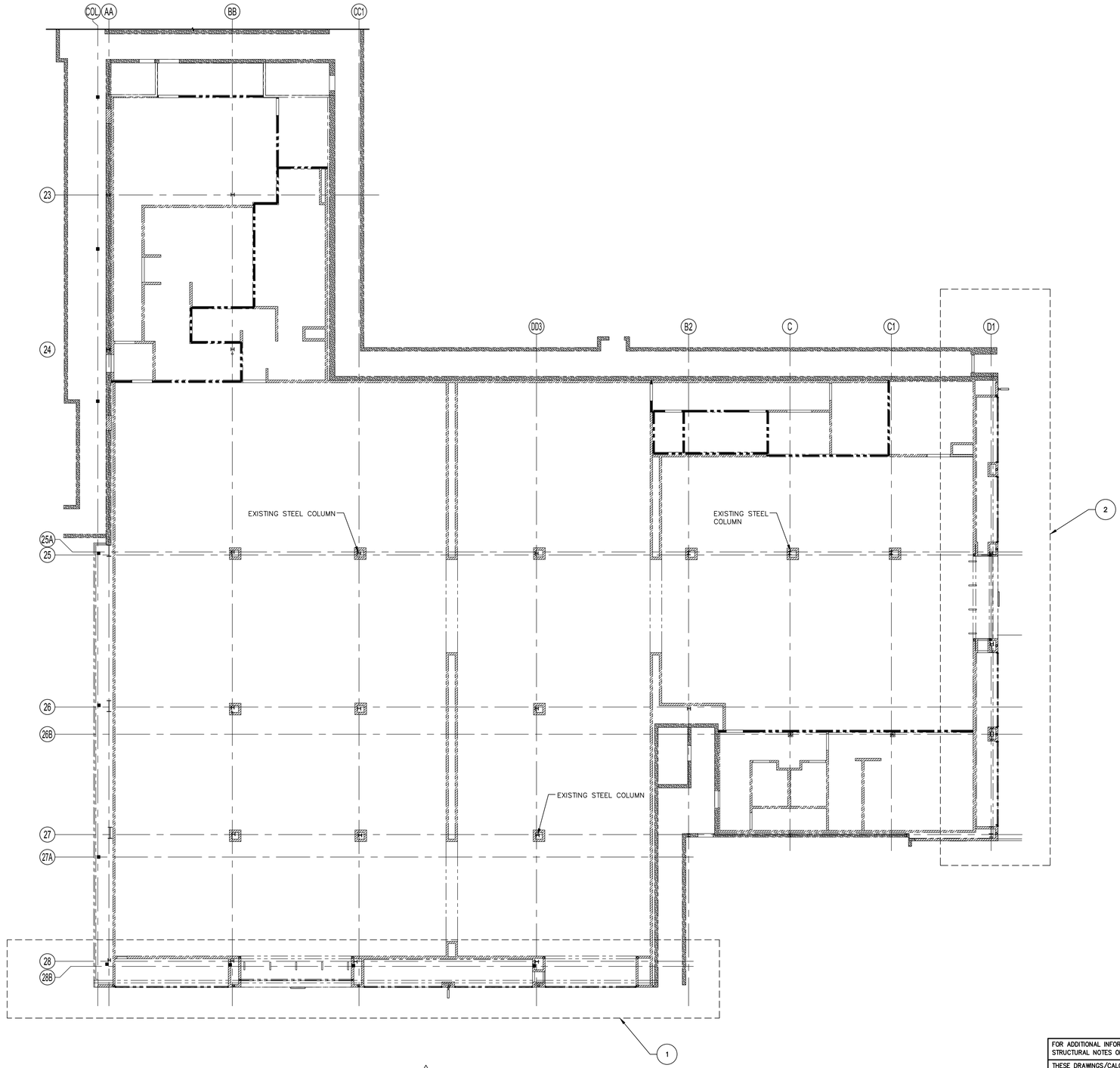
BOH MILLWORK DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:

A-743.03

DOB NO:



3 **KEY PLAN**

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

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

THESE DRAWINGS/CALCULATIONS ARE CONSIDERED PRELIMINARY –NOT FOR CONSTRUCTION OR RECORDING UNLESS THE STRUCTURAL ENGINEER OF RECORD'S SEAL IS AFFIXED WITH WRITTEN SIGNATURE.

PROJECT NUMBER	16–240	PROJECT MANAGER	TRM
PROJECT ENGINEER	ACK	PROJECT DRAFTER	JMG

CARUSO · TURLEY · SCOTT · INC
consulting structural engineers
1215 West Rio Salado Parkway, Suite 200
Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX)
www.ctsaz.com

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

RICHARD D. TURLEY
4/13/16
LICENSED PROFESSIONAL ENGINEER
18018
STATE OF MINNESOTA

REVISION:

3	04.13.16	FIELD CONDITIONS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

SA PROJECT NO:	150914–006
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	CTS
SCALE:	AS NOTED

SHEET TITLE:

OVERALL PLAN

H&M
2016
US366 – BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO:

S–110.03

DOB NO:

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▭ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.

2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS AND FITTINGS WHICH MAY BE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

3. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.

4. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS, ETC. WITH GENERAL TRADES.

5. THE CONTRACTOR SHALL VERIFY ALL CLEARANCES PRIOR TO FABRICATION OF ANY WORK.

6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF CEILING GRILLES, REGISTERS AND DIFFUSERS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.

7. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS DOORS IN HARD CEILINGS FOR ALL EQUIPMENT WHICH REQUIRES ACCESS, SUCH AS: FIRE AND SMOKE DAMPERS, SMOKE DETECTORS, BALANCING DAMPERS, ETC.

8. FOR ANY WORK REQUIRING MODIFICATION OF THE ROOF, THE CONTRACTOR SHALL USE LANDLORD'S ROOFING CONTRACTOR AT TENANT CONTRACTOR'S EXPENSE.

9. ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS. ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO ARCHITECT/ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULTS FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY.

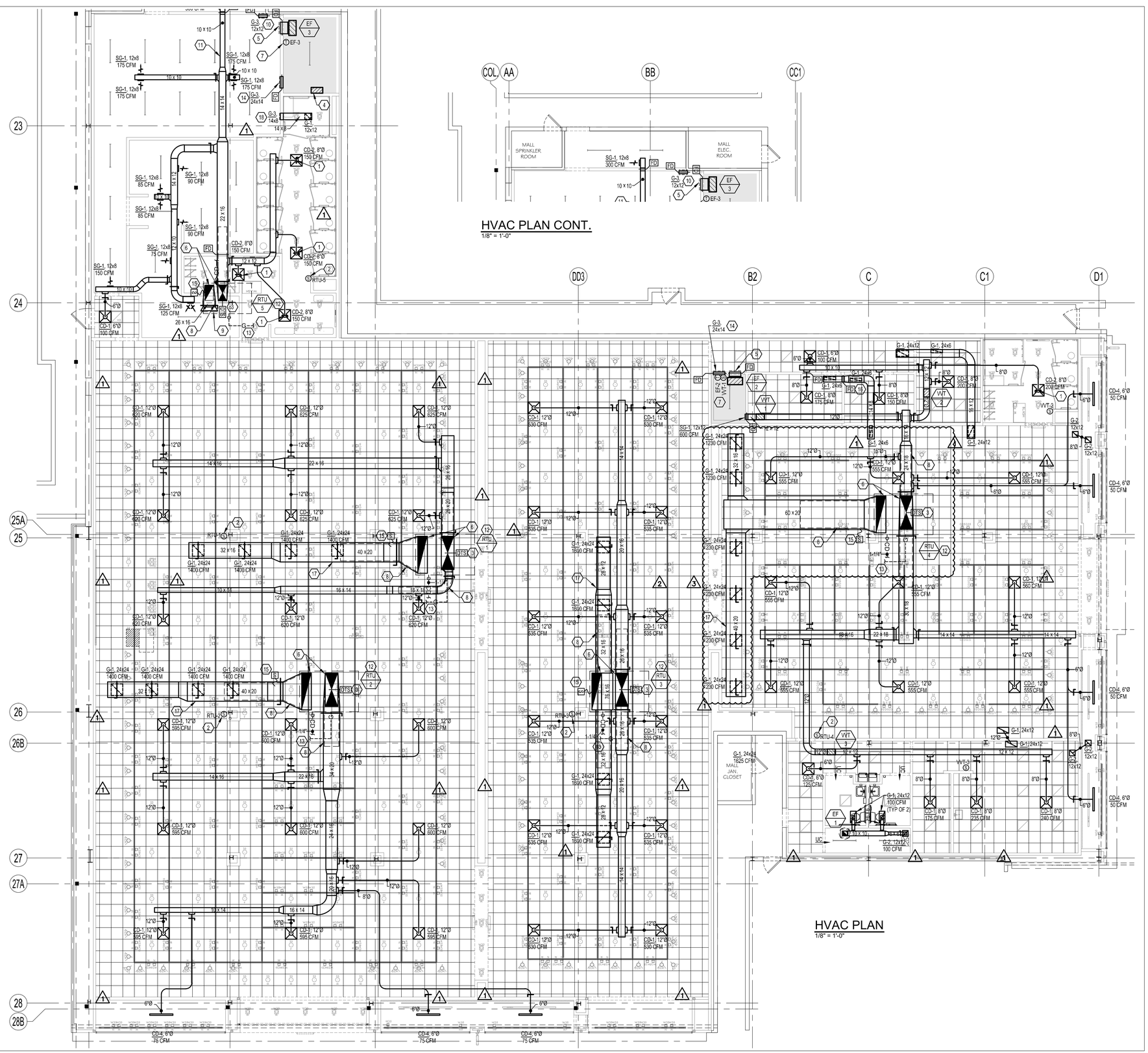
10. NO MECHANICAL EQUIPMENT, DUCTS, PIPING, ETC. SHALL BE SUSPENDED FROM THE DECK, LL'S DUCTWORK, WATER LINES, PIPING, ETC. ALL ATTACHMENTS SHALL EXTEND TO THE TOP CHORD OF STRUCTURAL JOISTS, BEAMS OR AT PANEL POINT LOCATIONS.

11. RETURN AIR BACK TO RTU'S SHALL BE VIA THE SALES FLOOR RETURN AIR GRILLES AS SHOWN.

12. HVAC CONTRACTOR TO CHANGE FILTERS JUST PRIOR TO FINAL PUNCH AND STORE OPENING.

CODED NOTES:

1. BALANCING DAMPER IN NECK OF DIFFUSER. ACCESS FOR ADJUSTING BALANCING DAMPER MUST BE THRU FACE OF DIFFUSER. (TYPICAL)
2. LIGHTSTAT TEMPERATURE SENSOR MOUNTED AT 48" AFF AND WIRED BY E.C. MOUNT ON COLUMN OR ON WALL. VERIFY FINAL LOCATION WITH H&M ON SITE REP PRIOR TO ROUGH-IN.
3. LIGHTSTAT SUPPLY AIR TEMPERATURE SENSOR INSTALLED BY M.C. AND WIRED BY E.C. (TYPICAL)
4. LIGHTSTAT TC PANEL. WIRE ALL SENSORS BACK TO THIS LOCATION.
5. TERMINATE 24x6 EXHAUST DUCT WITH WIRE MESH GRILLE.
6. TRANSITION AS REQUIRED TO CONNECT TO EXISTING DUCT DROP. (TYPICAL)
7. REVERSE ACTING LINE VOLTAGE THERMOSTAT TO CONTROL EXHAUST FAN SHALL BE FURNISHED BY M.C., WIRED AND INSTALLED BY E.C. THERMOSTAT TO BE MOUNTED 48" A.F.F. COORDINATE MOUNTING WITH E.C.
8. INSTALL 1" ACOUSTICAL DUCT LINER PER SPECIFICATIONS.
9. 1/2" X 1/2" WIRE MESH GRILLE OVER DUCT OPENING.
10. GRILLE (G-3) MOUNTED AS HIGH AS POSSIBLE WITH GRILLE MOUNTED ON BOTH SIDES OF WALL.
11. MOUNT DUCTWORK MINIMUM OF 8" ABOVE PENDANT LIGHT FIXTURES.
12. LANDLORD TO PROVIDE NEW ROOFTOP UNIT AT LOCATION AS SHOWN. COORDINATE EXACT LOCATION WITH LANDLORD.
13. GAS PIPING BY LANDLORD, SHOWN FOR REFERENCE ONLY.
14. GRILLE (G-3) MOUNTED 12" A.F.F., PROVIDE BURGLAR BARS AND FIRE DAMPER AT WALL.
15. DUCT SMOKE DETECTOR PROVIDED WITH ROOF TOP UNIT BY LANDLORD.
16. PROVIDE 12"x6" FIRE DAMPER IN RETURN AIR DUCT.
17. SALES FLOOR SYSTEMS SHALL BE DUCTED RETURN.
18. GRILLE (G-3) MOUNTED AS HIGH AS POSSIBLE WITH GRILLE MOUNTED ON STOCK ROOM SIDE OF WALL.



HVAC PLAN CONT.
1/8" = 1'-0"

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

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

RICHARD L. LUCIO
DATE: 4/01/2016
REG. NO.: 42852

REVISION:

1	03.21.16	LL/CLIENT COMMENTS
2	04.01.16	LL/CLIENT COMMENTS
3	04.13.16	FIELD CONDITIONS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.:	R15-2133.014
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	TMS/CDS
SCALE:	AS NOTED

SHEET TITLE:

HVAC PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 1 of 1

M-210.03

DOB NO:

H&M TEST & BALANCE CHECKLIST
PACKAGED ROOFTOP UNIT SYSTEM

MALL NAME:_____ DATE:_____
CITY/STATE:_____ STORE NO.#: _____

MECHANICAL CONTRACTOR	COMPANY NAME:_____ CONTACT NAME:_____	PHONE #:_____ E-MAIL # :_____
INDEPENDENT T&B CONTR.	COMPANY NAME:_____ CONTACT NAME:_____	PHONE #:_____ E-MAIL # :_____

NOTE: A COPY OF THIS CHECKLIST MUST BE COMPLETED AND INCLUDED WITH T & B REPORT. ALL INFORMATION LISTED BELOW MUST BE INCLUDED WITHIN THE BODY OF THE T & B REPORT AND REVIEWED BY THE MC PRIOR TO SUBMISSION TO H&M PROJECT MANAGER AND MECH ENGINEER.	PACKAGED ROOFTOP UNITS	EXHAUST FANS
REPORT PREPARED BY INDEPENDENT AABC OR NEBB LICENSED CONTRACTOR (LICENSE # AND SIGNATURE REQUIRED)	☐	☐
CONFORMANCE CERTIFICATE / PERFORMANCE GUARANTY REGISTERED WITH NATIONAL HEADQUARTERS	☐	☐
EQUIPMENT LIST AND CALIBRATION DATE (WITHIN 6 MONTHS OF TEST)	☐	☐
MAKE AND MODEL # OF EACH PIECE OF EQUIPMENT TESTED	☐	☐
MOTOR NAMEPLATE DATA		
MANUFACTURER OF MOTOR	☐	☐
MOTOR HP/BHP	☐	☐
UNIT VOLTAGE	☐	☐
MOTOR AMPERAGE (AMPS)	☐	☐
ELECTRIC HEAT (KW)	☐	
GAS HEAT (MBH)	☐	
MOTOR RPM	☐	☐
SERVICE FACTOR (SF)	☐	☐
SHEAVE SIZE/BORE SIZE	☐	☐
NUMBER AND SIZE OF BELTS	☐	☐
UNIT FIELD MEASUREMENTS		
FIELD VOLTAGE WITH EACH PHASE FOR 3-PHASE MOTORS	☐	☐
AMP DRAW EACH PHASE FOR 3-PHASE MOTORS	☐	☐
KILOWATTS (ELECTRIC HEATER ONLY)	☐	
FAN RPM	☐	☐
EXTERNAL STATIC PRESSURE - INLET SIDE	☐	☐
EXTERNAL STATIC PRESSURE - DISCHARGE SIDE	☐	☐
VERIFY REFRIGERANT CHARGE AND RECORD READINGS	☐	
SUPPLY TEMPERATURES (AT 100% COOLING & 100% HEATING)	☐	
OUTSIDE DB/WB READING AT TIME OF BALANCE	☐	
DESIGN AND ACTUAL CFM'S (WITHIN 5% OF DESIGN) AS FOLLOWS:		
AT EACH SUPPLY DIFFUSER	☐	
AT EACH RETURN OR EXHAUST AIR GRILLE FOR DUCTED RETURN	☐	☐
TOTAL SUPPLY BY DUCT TRAVERSES	☐	
TOTAL RETURN/RELIEF BY DUCT TRAVERSES	☐	☐
TOTAL OUTSIDE AIR AND METHOD OF TESTING O.A. AMOUNT	☐	
PLAN INDEXING EACH DIFFUSER AND GRILLE TESTED	☐	☐
MAXIMUM CFM RELIEF WITH ECONOMIZER AT 100% O.A.	☐	

H&M HVAC SYSTEM
TURN OVER CHECKLIST

MALL NAME:_____ DATE:_____
CITY/STATE:_____ STORE NO.#: _____

MECHANICAL CONTRACTOR	COMPANY NAME:_____ CONTACT NAME:_____	PHONE #:_____ E-MAIL # :_____

NOTE: A COPY OF THIS CHECKLIST MUST BE COMPLETED AND SUBMITTED TO THE H&M PM AND MECHANICAL ENGINEER A MINIMUM OF ONE (1) WEEK PRIOR TO STORE OPENING.	DATE COMPLETE (MM/DD/YYYY)
THE FOLLOWING SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR AT LEAST TWO (2) WEEKS PRIOR TO STORE OPENING: (COORDINATE ACTUAL DATES WITH G.C.)	
1. CONFIRM ALL HVAC EQUIPMENT HAS BEEN PROPERLY INSTALLED AND ENERGIZED PER PLANS AND SPECIFICATIONS AND PROPER START UP HAS BEEN PERFORMED PER MANUFACTURER'S RECOMMENDATIONS.	1._____
2. MECHANICAL CONTRACTOR IS RESPONSIBLE TO CONTACT JOHN PRINSSEN AT LIGHTSTAT (800) 292-2444 IN ORDER TO SCHEDULE TEMPERATURE CONTROLS START UP AND COMMISSIONING. THE CONTRACTOR SHALL BE AVAILABLE ON SITE FOR A MINIMUM OF ONE DAY FOR LIGHTSTAT COMMISSIONING TO BE COMPLETED WITH THE LIGHTSTAT REPRESENTATIVE.	2._____
3. CONFIRM A NEW CLEAN SET OF FILTERS HAS BEEN INSTALLED IN ALL HVAC EQUIPMENT PRIOR TO BALANCING AND TURN OVER TO TENANT.	3._____
4. CONFIRM THAT TESTING, ADJUSTING AND BALANCING HAS BEEN COMPLETED PER PLANS AND SPECIFICATIONS AND FINAL COMPLETE REPORT HAS BEEN SUBMITTED TO TENANT'S PROJECT MANAGER AND MECHANICAL ENGINEER. ANY BALANCING ADJUSTMENTS REQUIRED BASED ON THE ENGINEER'S REVIEW COMMENTS SHALL BE PICKED UP WITHIN THREE DAYS OF RECEIVING THE COMMENT RESPONSES. INCLUDE A COPY OF THE COMPLETED "H&M TEST AND BALANCE CHECKLIST" FORM WITH THE SUBMITTED T&B REPORTS.	4._____
THE FOLLOWING SHALL BE COMPLETED BY THE MECHANICAL CONTRACTOR AT LEAST ONE (1) WEEK PRIOR TO STORE OPENING: (COORDINATE ACTUAL DATES WITH G.C.)	
1. MAKE A PHOTO COPY OF ALL HVAC COMMISSIONING FORMS FOR THIS PROJECT FROM THE MECHANICAL DRAWINGS. COMPLETE ALL FORMS AND SUBMIT THEM TO THE TENANT'S PROJECT MANAGER AND MECHANICAL ENGINEER. SEE THE COMMISSIONING SPEC SECTION FOR ADDITIONAL INFORMATION.	1._____
2. CONFIRM PROPER OPERATION OF ALL HVAC SYSTEMS BY COMPLETING THE FOLLOWING:	
a. CONFIRM PROPER SPACE SET POINTS FOR ALL SYSTEMS AND ALL OCCUPIED/UNOCCUPIED SCHEDULES HAVE BEEN PROGRAMMED BY LIGHTSTAT FOR ALL SEASONS OF OPERATION. (72 DEGREES F IN COOLING SEASON, 70 DEGREES F IN HEATING SEASON)	2a._____
b. THE MECHANICAL CONTRACTOR SHALL VERIFY SPACE SET POINTS ARE MAINTAINED FOR A CONTINUOUS 48 HOUR PERIOD AND PROVIDE DOCUMENTATION TO THE TENANT'S PROJECT MANAGER AND MECHANICAL ENGINEER. DOCUMENTATION SHALL CONSIST, AT A MINIMUM, OF TEMPERATURE READINGS FOR EACH ZONE ONCE AN HOUR FOR THE 48 HOUR PERIOD. READINGS CAN EITHER BE RECORDED MANUALLY OR READINGS CAN BE PROVIDED VIA PRINT OUTS FROM THE BUILDING MANAGEMENT SYSTEM. OBTAINING THESE TEMPERATURE READINGS IS THE RESPONSIBILITY OF THE MC, NOT THE LIGHTSTAT REPRESENTATIVE.	2b._____
c. COORDINATE WITH THE LIGHTSTAT REPRESENTATIVE TO OBTAIN A COPY OF A PRINT-OUT FROM THE "H&M E-STAT TEMPERATURE CONTROL CENTER" SHOWING ALL HVAC SYSTEMS CLEARLY IDENTIFIED WITH EQUIPMENT MARKS AS IDENTIFIED ON THE HVAC PLANS AND SCHEDULES AS WELL AS SPACE TEMPERATURES AND SUPPLY AIR TEMPERATURES MEETING SPECIFICATION REQUIREMENTS.	2c._____
3. SUBMIT O&M MANUALS TO H&M PROJECT MANAGEMENT AND MECHANICAL ENGINEER FOR REVIEW.	3._____
4. SUBMIT ALL WARRANTY INFORMATION TO H&M PROJECT MANAGER.	4._____

EXISTING UNITS SHOWN FOR REFERENCE ONLY

ROOFTOP AIR CONDITIONING UNIT SCHEDULE (GAS-FIRED)

MARK	RTU-1	RTU-2	RTU-3	RTU-4	RTU-5
NOMINAL TONS	17.5	17.5	20	20	7.5
MANUFACTURER	TRANE	TRANE	TRANE	TRANE	TRANE
MODEL No.	YHD210	YHD210	YHD240	YHD240	YHC092
SERVICE	SALES FLOOR	SALES FLOOR	SALES FLOOR	SALES FLOOR	BACK OF HOUSE
SUPPLY AIR CFM	5,600	5,600	6,400	7,400	2,400
MIN. OUTDOOR AIR CFM	1,410	1,410	1,600	1,600	330
ESP ("WC)	1.0	1.0	1.0	1.0	0.75
BHP	3.20	3.20	3.20	3.20	0.71
HP	5.0	5.0	5.0	5.0	3.0
FAN RPM	691	691	728	726	1005
HEATING INPUT/OUTPUT (MBH)	350/284	350/284	400/324	400/324	150/121.5
No. OF HEATING STAGES	2	2	2	2	2
HEATING EAT/LAT (°F)	42.0/88.7	42.0/88.7	45.0/91.6	45.0/85.5	58.8/105.6
No. OF COOLING STAGES	2	2	2	2	2
TOTAL COOLING CAPACITY (MBH)	206.6	206.6	238.9	238.9	83.8
SENSIBLE COOLING CAPACITY (MBH)	157.8	157.8	170.4	170.4	62.4
REFRIGERANT TYPE	R410A	R410A	R410A	R410A	R410A
EER	11.8	11.8	11.0	11.0	12.6
COOLING EAT DB/WB (°F)	80.0/67.0	80.0/67.0	80.0/67.0	80.0/67.0	78.0/64.0
COOLING LAT DB/WB (°F)	53.8/52.8	53.8/52.8	55.3/54.4	55.3/54.4	53.9/52.3
FILTER EFF (%)	30	30	30	30	30
MCA	44	44	52	52	19.9
MOCP	60	60	70	70	25
ELECTRICAL (VOLT/PH)	460/3	460/3	460/3	460/3	460/3
OPERATING WEIGHT (LBS)	2325	2325	2409	2409	1291
REMARKS	1,2	1,2	1,2	1,2	1,2

REMARKS:
1. PROVIDE WITH MINIMUM 14" HIGH ROOF CURB, POWERED EXHAUST, ECONOMIZER WITH DIFFERENTIAL DRY BULB CONTROL, COIL HAIL GUARD, NON-FUSED DISCONNECT, CONVENIENCE RECEPTACLE, 5 YEAR COMPRESSOR WARRANTY, DUCT SMOKE DETECTOR IN RETURN AIR DUCT.
2. LANDLORD SHALL START-UP RTUS TO ENSURE PROPER OPERATION AND SUBMIT START-UP REPORT TO H&M FOR APPROVAL.

NOTE:
EXISITNG RTU-1, 2, 3,4 AND 5 TO BE FURNISHED AND INSTALLED BY LANDLORD AT LANDLORD'S EXPENSE UNDER SEPARATE PERMIT AND CONTRACT. ALL OTHER WORK ASSOCIATED WITH RTUS SHOWN ON PLANS AND SPECIFICATIONS SHALL BE BY TENANT'S CONTRACTOR INCLUDING BUT NOT LIMITED TO DUCTWORK, CONTROLS AND WIRING, BALANCING, FINAL FILTER CHANGE, ETC..

GRILLE AND DIFFUSER SCHEDULE

MARK	CD-1	CD-2	CD-3	CD-4	SG-1	SG-2	G-1	G-2	G-3
MANUFACTURER	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS	TITUS
MODEL No.	OMNI	OMNI	OMNI	MIL-38	300RL	S301FL	350RL	350RL	33RL
FRAME OR BORDER TYPE	LAY-IN	LAY-IN	LAY-IN	SURFACE	SURFACE	DUCT MOUNTED	LAY-IN	SURFACE	SURFACE
MODULE SIZE	24x24	24x24	12x12	4'-0"	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS	SEE PLANS
DAMPER MODEL NUMBER	OBD	OBD	AG-100	-	AG-15	-	-	-	-
FINISH	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE	WHITE
REMARKS	1,2,4	1,2,3,4	1,2,3,4	2,4,5	2	2,6	2,7	2,4	2

REMARKS:
1. ALL CEILING DIFFUSERS ARE 4-WAY THROW UNLESS INDICATED OTHERWISE ON PLAN.
2. OTHER ACCEPTABLE MANUFACTURERS: PRICE, NAILOR & KRUGER .
3. PROVIDE WITH DRYWALL RAPID MOUNT FRAME, TITUS MODEL TRM-S.
4. GRILLES AND DIFFUSERS TO MATCH ADJACENT CEILING COLOR (WHITE, GREY, BLACK OR OTHER). SEE ARCHITECTURAL DRAWINGS FOR COORDINATION. FOR GREY OR BLACK CEILINGS PAINT GRILLE AND DIFFUSERS TO MATCH.
5. LINEAR SLOT SUPPLY AIR DIFFUSER WITH (1) 3/4" SLOTS AND MPI-38-SP INSULATED PLENUM.
6. PROVIDE WITH OPTIONAL AIR SCOOP DAMPER.
7. PROVIDE WITH OPPOSED BLADE DAMPER.

STORE OPENING DAY REQUIREMENTS

1. MECHANICAL CONTRACTOR SHALL HAVE A TECHNICIAN ON SITE 4 HOURS PRIOR TO OPENING OF THE STORE ON OPENING DAY AND SHALL REMAIN ON SITE THROUGHOUT THE DAY IN ORDER TO MAKE ADJUSTMENTS TO THE SYSTEM AS REQUIRED TO MEET THE HIGH LOAD DEMANDS AND TO TROUBLESHOOT ANY PROBLEMS THAT MAY ARISE.
2. MECHANICAL CONTRACTOR SHALL HAVE A TECHNICIAN ON SITE 4 HOURS PRIOR TO THE START OF THE PRESS PARTY AND SHALL REMAIN ON SITE THROUGHOUT THE DAY IN ORDER TO MAKE ADJUSTMENTS TO THE SYSTEM AS REQUIRED TO MEET THE HIGH LOAD DEMANDS AND TO TROUBLESHOOT ANY PROBLEMS THAT MAY ARISE.
3. THE SPACE SHALL BE PRE-COOLED TO 68 DEGREES F 12 HOURS PRIOR TO OPENING AND SHALL REMAIN AT 68 DEGREES UNLESS DIRECTED BY H&M MANAGEMENT TO INCREASE THE TEMPERATURE SETPOINT. AFTER OPENING DAY HAS CONCLUDED, THE MC SHALL RESET THE SPACE SETPOINT TEMPERATURE TO 72 DEGREES AND SHALL CONTROL THE SPACE TEMP VIA THE REGULAR OCCUPANCY SCHEDULE.

H&M HAS A NATIONAL ACCOUNT WITH TRANE:

TRANE CONTACT:
Jim Hoovler
OFFICE: (614) 473-3500
jehoovler@trane.com

VARIABLE VOLUME/TEMPERATURE TERMINAL BOX SCHEDULE

MARK	VVT-1	VVT-2	VVT-3
MANUFACTURER	TRANE	TRANE	TRANE
MODEL No.	VADB	VADB	VADB
INLET SIZE	12"	12"	12"
CFM (MIN.)	0	0	0
CFM (MAX.)	600	825	775
ELECTRICAL (VOLT/PH)	120/1	120/1	120/1
REMARKS	1,2,3	1,2,3	1,2,3

REMARKS:
1. VVT DAMPERS AND UNIT CONTROL MODULE CONTROLLER CONTROLLED BY LOCAL DDC ZONE SENSOR THERMOSTAT.
2. PROVIDE WITH AUXILIARY TEMPERATURE SENSOR FOR AUTOMATIC CHANGEOVER OF UCM DAMPER.
3. UNIT TO BE PROVIDED WITH 24VAC TRANSFORMER.

FAN SCHEDULE

MARK	EF-1	EF-2	EF-3
MANUFACTURER	COOK	COOK	COOK
MODEL No.	70 ACEB	GC-920	GC-920
SERVICE	TOILET	LAN ROOM	ELECTRICAL ROOM
FAN TYPE	PRV	INLINE	INLINE
CFM	300	1000	1000
TOTAL STATIC PRESSURE ("WC)	0.75	0.5	0.5
OUTLET VELOCITY (FPM)	458	1057	1057
WHEEL DIAMETER (")	10.0	8"	8"
DRIVE	BELT	DIRECT	DIRECT
MOTOR BHP	0.161	0.251	0.251
MOTOR HP	1/6	1/2	1/2
ARRANGEMENT	N/A	NA	NA
ELECTRICAL (VOLT/PH)	115/1	115/1	115/1
OPERATING WEIGHT (LBS)	30	100	100
REMARKS	1,3	2,3	2,3

REMARKS:
1. PROVIDE WITH ROOF CURB, BACKDRAFT DAMPER, AND DISCONNECT.
2. PROVIDE WITH HANGING VIBRATION ISOLATION KIT, DISCONNECT.
3. OTHER ACCEPTABLE MANUFACTURERS: GREENHECK AND PENN.

HVAC LEGEND

RTU	ROOFTOP UNIT
VVT	VARIABLE VOLUME AND TEMPERATURE BOX
EF	EXHAUST FAN
CD	CEILING DIFFUSER
G	RETURN,EXHAUST OR TRANSFER GRILLE
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
BDD	BACKDRAFT DAMPER
AFF	ABOVE FINISHED FLOOR
VD	VOLUME DAMPER
SA	SUPPLY AIR
EA	EXHAUST AIR
RA	RETURN AIR
OA	OUTSIDE AIR
TA	TRANSFER AIR
AP	ACCESS PANEL
CLG	CEILING
FD	FIRE DAMPER
MOD	MOTOR OPERATED DAMPER
AFF	ABOVE FINISHED FLOOR
LL	LANDLORD
C	CONDENSATE
FD	FIRE DAMPER
DTS	LIGHTSTAT SUPPLY AIR SENSOR (TME-SAS)
BDD	BACKDRAFT DAMPER
MOD	MOTOR OPERATED DAMPER
	SUPPLY OR OUTDOOR AIR DUCT
	RETURN OR EXHAUST DUCT
	3-WAY SUPPLY DIFFUSER
S RTU-1	TEMPERATURE SENSOR
T EF-1	THERMOSTAT (LINE VOLTAGE)
UC	1" UNDERCUT
	TRANSFER
	CONNECT TO EXISTING
S	DUCT SMOKE DETECTOR

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

RICHARD L. LUCIO
DATE: 4/01/2016
REG. NO.: 42852

REVISION:

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.:	R15-2133.014
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SCALE:	AS NOTED

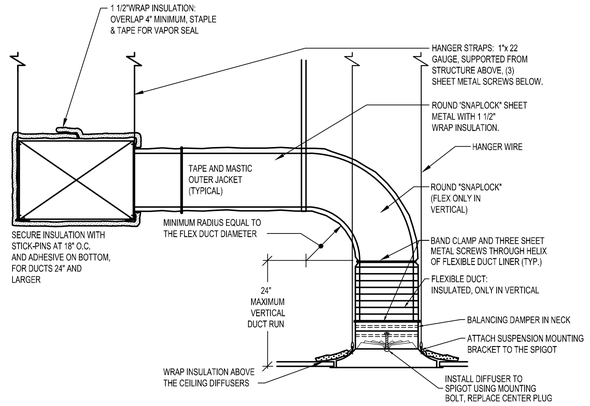
SHEET TITLE:
HVAC SCHEDULES

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

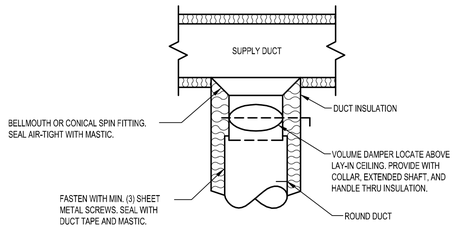
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M-300.00

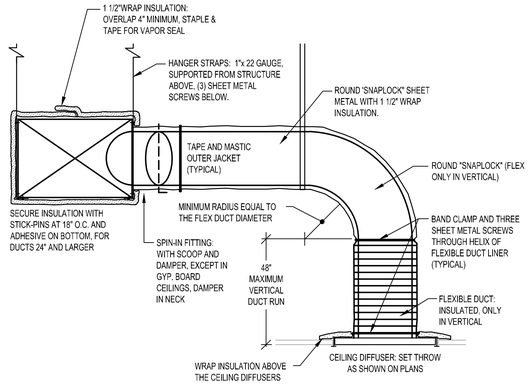
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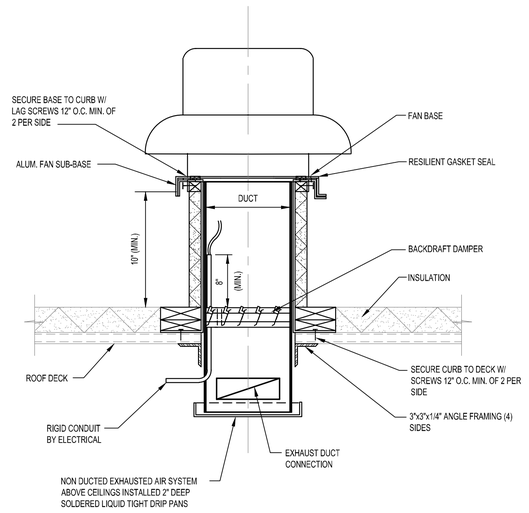
CEILING DIFFUSER CONNECTION DETAIL (GYP. BOARD CEILING)
NTS



ROUND DUCT TAKE-OFF DETAIL
N.T.S.



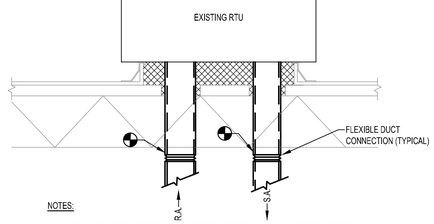
CEILING DIFFUSER CONNECTION DETAIL
N.T.S.



NOTES:

1. CONTRACTOR TO HIRE LANDLORD'S ROOFING CONTRACTOR TO MAKE ANY PENETRATIONS THRU ROOF TO MAINTAIN ROOFING WARRANTY.

ROOF EXHAUST FAN DETAIL
N.T.S.



NOTES:

1. FOR UNITS NOT SUPPLIED WITH SMOKE DETECTORS INSTALL SMOKE DETECTORS, PROVIDED BY THE ELECTRICAL CONTRACTOR, IN DUCTWORK WHERE INDICATED ON PLANS.
2. PROVIDE 1" ACOUSTICAL DUCT LINING IN SUPPLY AND RETURN DUCTS FROM UNIT CONNECTION TO POINTS INDICATED ON PLANS.
3. TRANSITION SUPPLY AND RETURN UNIT CONNECTIONS TO SIZES INDICATED ON PLANS.

ROOFTOP UNIT INSTALLATION
N.T.S.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

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DATE: 4/01/2016
REG. NO.: 42852

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SCALE:	AS NOTED

SHEET TITLE:

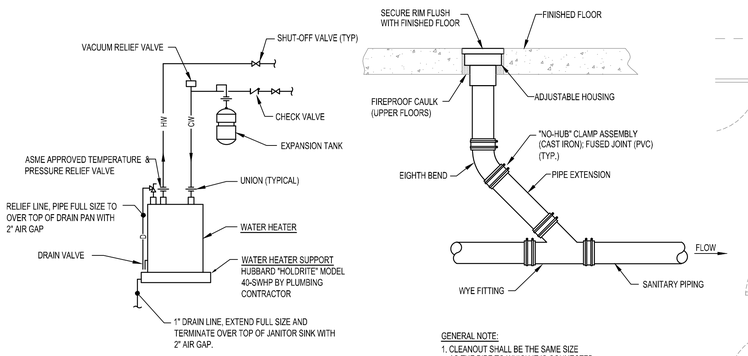
HVAC DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 3 of 8

M-400.00

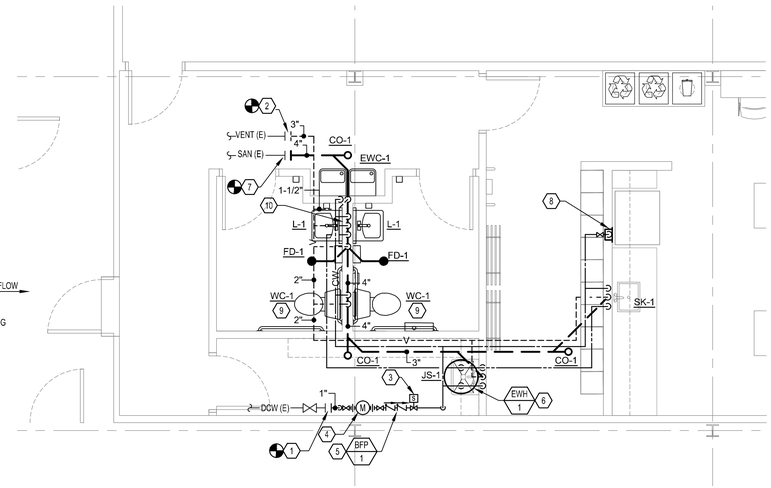
DOB NO:



WATER HEATER DETAIL
N.T.S.

GENERAL NOTE:
1. CLEANOUT SHALL BE THE SAME SIZE AS THE PIPE TO WHICH IT IS CONNECTED UP TO 4". FOR PIPES LARGER THAN 4", THE MINIMUM SIZE OF THE CLEANOUT IS 4".

FLOOR CLEANOUT DETAIL
NTS



ENLARGED PLUMBING PLAN
1/4" = 1'-0"

BACKFLOW PREVENTER SCHEDULE

MARK	BFP-1
MANUFACTURER	WATTS
MODEL No.	007
SERVICE	DOMESTIC WATER
TYPE	DOUBLE CHECK
SIZE	1"
REMARKS	1

REMARKS:
1. ACCEPTABLE MANUFACTURERS; FEBCO, ZURN, AMES, CONBRACO.

THERMOSTATIC MIXING VALVE SCHEDULE

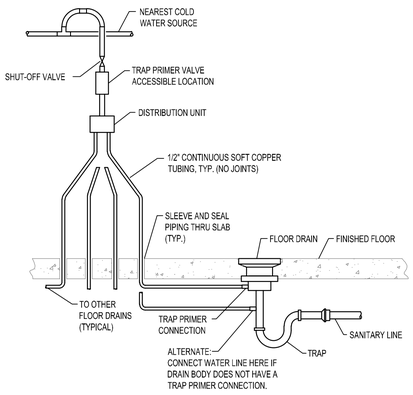
MARK	TMV-1
MANUFACTURER	LAWLER
MODEL No.	516
SERVICE	POINT OF USE
GPM	2
PRESSURE DROP (PSI)	5
INLET TEMPERATURE (COLD WATER °F)	40
OUTLET TEMPERATURE (HOT WATER °F)	110
REMARKS	1,2

REMARKS:
1. ACCEPTABLE MANUFACTURERS; LAWLER, LEONARD, SYMMONS, POWERS.
2. PROVIDE AT PUBLIC LAVATORIES AND SINKS. (TYPICAL)

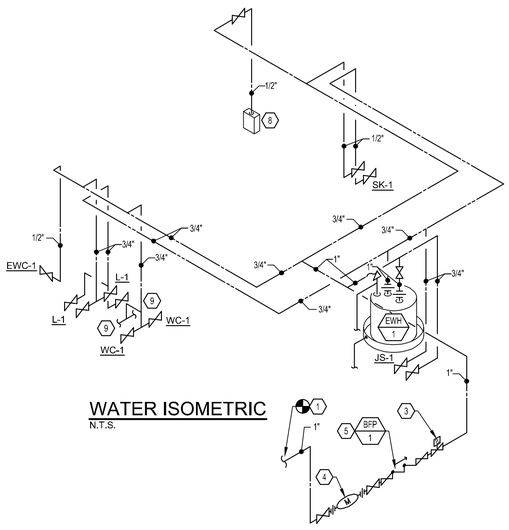
DOMESTIC WATER HEATER SCHEDULE (ELECTRIC)

MARK	EWH-1
MANUFACTURER	A.O. SMITH
MODEL No.	DEL-10
TYPE	SHELF MOUNT
RECOVERY AT 100°F (GPH)	10
STORAGE (GAL)	10
No. OF ELEMENTS	1
RELIEF VALVE SETTING (PSI)	150
MAX. OPER. KW	2.5
ELECTRICAL (VOLT/PH)	208/1
REMARKS	1,2

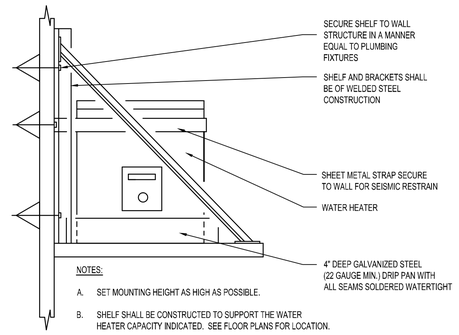
REMARKS:
1. RECOVERY RATE BASED ON 40° ENTERING WATER TEMP.
2. APPROVED EQUALS: BRADFORD-WHITE, RHEEM, AND STATE



TRAP PRIMER DETAIL
N.T.S. (MULTIPLE DRAINS)

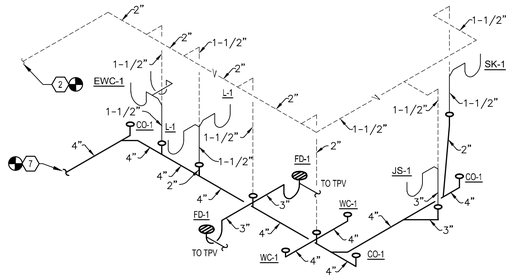


WATER ISOMETRIC
N.T.S.



NOTES:
A. SET MOUNTING HEIGHT AS HIGH AS POSSIBLE.
B. SHELF SHALL BE CONSTRUCTED TO SUPPORT THE WATER HEATER CAPACITY INDICATED. SEE FLOOR PLANS FOR LOCATION.

WATER HEATER SUPPORT DETAIL
N.T.S.



WASTE & VENT ISOMETRIC
N.T.S.

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	FIXTURE TYPE	MANUFACTURER	TYPE & MODEL NO.	TRIM/FAUCET NO.	SUPPORT	PIPE SIZES TRAP	WASTE	VENT	CW	HW	REMARKS
WC-1	WATER CLOSET	AMERICAN STANDARD	CADET NO. (WHITE) 215AA	CHICAGO FAUCET 1016	FLOOR MOUNT	-	4"	2"	1/2"	-	VITREOUS CHINA, ADA COMPLIANT, 1.6 GPF, FLUSH TANK, WITH OPEN FRONT COMMERCIAL GRADE SEAT WITH CHECK HINGE AND CHROME TRIP LEVER.
L-1	LAVATORY	AMERICAN STANDARD	LUCERNE (WHITE) 0355.012	CHICAGO FAUCET 802-A317CP	WALL HUNG	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	PROVIDE INSULATED CHROME P-TRAP. PROVIDE HANDICAP INSULATION KIT, (2) CHICAGO FAUCET 1016 ANGLE VALVES, PROVIDE CHICAGO NO. E2605.5 AERATOR.
JS-1	JANITOR SINK	AMERICAN STANDARD	7695.008	AMERICAN STANDARD 8350.243	WALL MOUNT	3"	3"	1-1/2"	3/4"	3/4"	PROVIDE FAUCET WITH VACUUM BREAKER, BUCKET HOOK, 3/4" HOSE OUTLET, HOSE WITH BRACKET AND STAINLESS STEEL RIM GAURD NO. 8379.026
SK-1	SINK	JUST	SBW-2125-A-GR-L	CHICAGO FAUCET 2300-8	CABINET HUNG	1-1/2"	1-1/2"	1-1/2"	3/4"	3/4"	PROVIDE CHICAGO NO. E2605.5 AERATOR AND JUST NO. J-35 CRUMB CUP.
FD-1	FLOOR DRAIN	J.R. SMITH	SERIES 2005	-	-	3"	3"	1-1/2"	-	-	FLAT STRAINER WITH POLISHED NICKEL BRONZE TOP. PROVIDE 1/2" TRAP PRIMER CONNECTION WHERE INDICATED ON PLANS. POLISHED NICKEL BRONZE TOP.
TPV-1	TRAP PRIMER VALVE	PRECISION PLUMBING	OREGON NO. 1	-	-	-	-	-	1/2"	-	PROVIDE DISTRIBUTION UNIT FOR MULTIPLE DRAIN CONNECTIONS.
EWC-1	ELECTRIC WATER COOLER	ELKAY	EZSTL8C	-	WALL MOUNT	1-1/2"	1-1/2"	1-1/2"	1/2"	-	COLOR SELECTED BY ARCHITECT

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▭ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL PLUMBING SYSTEMS.
3. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL ETC. FOR THE PROPER INSTALLATION OF ALL PLUMBING SYSTEMS.
4. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS WITH THE GENERAL CONTRACTOR.
5. PROVIDE CLEANOUTS IN PIPING ON ALL CHANGE IN DIRECTIONS OF 90 DEGREES OR MORE.
6. SEE PLUMBING SPECIFICATIONS ON M500 SERIES DRAWINGS.

LANDLORD NOTES:

1. NO PVC OR PEX ABOVE GRADE.
2. PLUMBING IS NOT PERMITTED IN LANDLORD'S DEMISING WALLS. FURR OUT WALLS WHERE NECESSARY.
3. ALL TOILET ROOMS TO HAVE FLOOR DRAINS WITH TRAP PRIMERS.
4. TGC TO COORDINATE ALL FLOOR CUTS AND CONNECTIONS TO LL WATER AND SANITARY MAINS WITH MALL OPERATIONS.
5. ANY CHANGES AND/OR UPGRADES TO TENANT'S EXISTING PLUMBING SYSTEMS SHALL COMPLY WITH ALL CODES AND MALL CRITERIA. EXISTING SYSTEMS SHALL POSSESS THE CAPACITY TO HANDLE ANY AND ALL CHANGES IN LOAD.
6. ALL WATER LINES SHALL BE COPPER - PVC IS NOT PERMITTED.
7. ALL DRAIN, WASTE AND VENT PIPING AND FITTINGS ABOVE GRADE MUST BE COPPER OR CAST IRON.

CODED NOTES: (#)

1. CONNECT NEW 1" DCW TO EXISTING DCW CONNECTION PROVIDED BY THE LANDLORD. FIELD VERIFY EXACT POINT OF CONNECTION PRIOR TO BID. COORDINATE WITH LANDLORD PRIOR TO ANY WORK.
2. CONNECT NEW 3" VENT TO EXISTING VENT CONNECTION PROVIDED BY THE LANDLORD. FIELD VERIFY EXACT POINT OF CONNECTION PRIOR TO BID. COORDINATE WITH LANDLORD PRIOR TO ANY WORK.
3. PROVIDE A NORMALLY CLOSED SOLENOID VALVE (SV-1) ON DOMESTIC WATER SUPPLY AFTER THE WATER METER. SOLENOID VALVE TO BE ACTIVATED BY A SIGNAL FROM THE LIGHTSTAT CONTACTOR PANEL. SOLENOID VALVE TO BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.
4. INSTALL WATER METER WITH REMOTE READ IN AN ACCESSIBLE LOCATION PER THE LANDLORD'S AND/OR LOCAL WATER DEPARTMENT REQUIREMENTS. VERIFY THE INSTALLATION LOCATION WITH LANDLORD'S REPRESENTATIVE BEFORE INSTALLING.
5. INSTALL DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER.
6. ELECTRIC WATER HEATER MOUNTED BELOW CEILING, REFER TO WATER HEATER SUPPORT DETAIL.
7. CONNECT NEW 4" SAN TO EXISTING SANITARY CONNECTION PROVIDED BY THE LANDLORD BELOW FLOOR. FIELD VERIFY EXACT POINT OF CONNECTION PRIOR TO BID. COORDINATE WITH LANDLORD PRIOR TO ANY WORK.
8. GUY GRAY MODEL AB 9700 SUPPLY BOX @ 6" AFF. PROVIDE 1/4" OD. COMPRESSION OUTLET VALVE FOR REFRIGERATOR CONNECTION.
9. 1/2" COLD WATER TO TRAP PRIMER VALVE, SEE TRAP PRIMER DETAIL.
10. PROVIDE TMV-1 AT EACH LAVATORY.

COORDINATE WATER METER READ-OUT AND LOCATION WITH MALL MANAGEMENT. (2)

PLUMBING LEGEND

AFF	ABOVE FINISHED FLOOR
CO	CLEANOUT
CTX	CONNECT TO EXISTING
(E)	EXISTING
EWH	ELECTRIC WATER HEATER
JS	JANITOR'S SINK
WCO	WALL CLEANOUT
WC	WATER CLOSET
L	LAVATORY
SK	SINK
FD	FLOOR DRAIN
TPV	TRAP PRIMER VALVE
EWC	ELECTRIC WATER COOLER
SAN	SANITARY SEWER PIPING
V	VENT PIPING
DCW	DOMESTIC COLD WATER PIPING
DHW	DOMESTIC HOT WATER PIPING
	PIPING ABOVE GRADE/FLOOR
	PIPING BELOW GRADE/FLOOR
	UNION
	SHUTOFF VALVE
	POINT OF CONNECTION
M	WATER METER
XX / XX	EQUIPMENT TAG

SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

RICHARD L. LUCIO
DATE: 4/01/2016
REG. NO.: 42852

REVISION:

2	04.01.16	LL/CLIENT COMMENTS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.:	R15-2133.014
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	TMS/CDS
SCALE:	AS NOTED

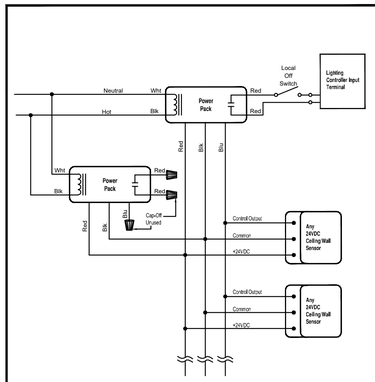
SHEET TITLE:
ENLARGED PLUMBING PLAN

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 1 of 1

P-100.02

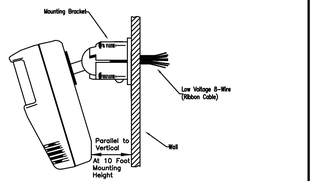
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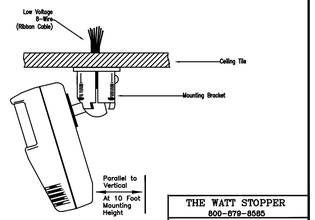
Note:
Use this schematic when current consumption of multiple sensors exceeds current output of a single power pack.

THE WATT STOPPER 800-879-8585			
Title: Multiple Occupancy Sensor With Multiple Power Packs			
Drawing	Date	Rev.	
None	07-010-1	1/17/00	1

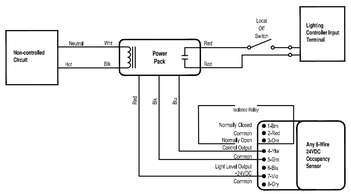
Wall Mounted



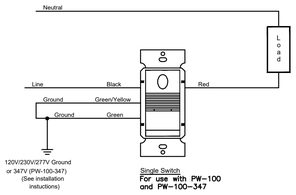
Ceiling Mounted



THE WATT STOPPER 800-879-8585			
Title: DT-200 & CX Series Sensor Installation			
Drawing	Date	Rev.	
None	07-038-6	4/8/03	2



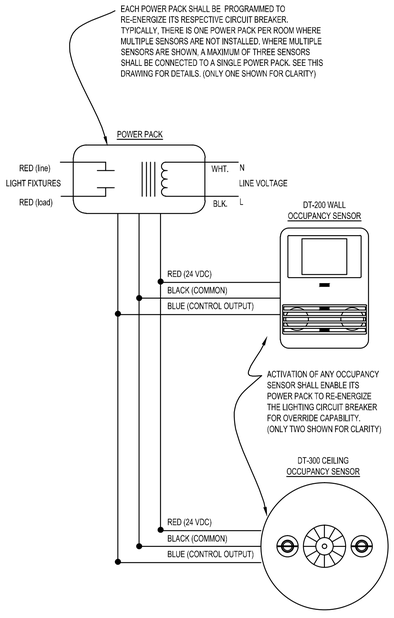
THE WATT STOPPER 800-879-8585			
Title: Occupancy Sensor Standard Connections			
Drawing	Date	Rev.	
None	--	--	--



THE WATT STOPPER 800-879-8585			
Title: Occupancy Sensor PW-100			
Drawing	Date	Rev.	
None	--	--	--

OCCUPANCY SENSOR NOTES

1. DUAL TECHNOLOGY OCCUPANCY SENSOR SHALL BE A WALL OR CEILING MOUNTED 24V D.C. UNIT AS INDICATED ON THE PLANS (TYPICALLY WATT STOPPER #DT-200 OR DT-300). SUBSCRIPT "C" DENOTES CEILING MOUNTED DEVICE, SUBSCRIPT "W" INDICATES WALL MOUNTED DEVICE.
2. POWER PACKS SHALL BE CONNECTED AHEAD OF SENSOR(S)/SWITCH(ES) ON A "NON-CONTROLLED" CIRCUIT AND INSTALLED ABOVE ACCESSIBLE CEILING (TYPICALLY WATT STOPPER "B SERIES"). MOUNT POWER PACK IN DEEP JUNCTION BOX IF REQUIRED PER LOCAL AUTHORITIES HAVING JURISDICTION.
3. LINE VOLTAGE CONNECTIONS SHALL BE MADE IN A JUNCTION BOX AT THE POWER PACK.
4. LOW VOLTAGE WIRING IS NOT SHOWN ON PLAN AND NOT ALL LINE VOLTAGE WIRING IS SHOWN ON PLANS. THE E.C. SHALL PROVIDE ALL REQUIRED DEVICES, POWER PACKS, WIRING, ETC. FOR A COMPLETE SYSTEM PER MANUFACTURER'S SPECIFICATIONS.
5. THESE WIRING DIAGRAMS ARE BASED ON WATT STOPPER. THE E.C. SHALL MEET THE REQUIREMENTS OF ANY ACCEPTABLE ALTERNATE MANUFACTURER TO PERFORM THE SAME FUNCTION.
6. PROVIDE A 20A, 120V WALL SWITCH AT THE ROOM ENTRANCE TO DISABLE THE OCCUPANCY SENSOR BY INTERRUPTING THE POWER PACK OUTPUT TO THE LIGHTING CONTROLLER INPUT TERMINAL BOARD PER THE WATT STOPPER STANDARD CONTROL DETAILS.
7. THE POWER PACK BUILT-IN CONTACT SHALL BE WIRED TO THE LIGHTING CONTROLLER INPUT TERMINAL BOARD, PROGRAMMED TO OPERATE THE CONTROLLABLE CIRCUIT BREAKER POWERING THE RESPECTIVE LIGHTING CIRCUIT.
8. INDIVIDUAL ROOM WALL OCCUPANCY SENSOR SWITCHES SHALL BE TYPE WATTSTOPPER PW-100.
9. OCCUPANCY SENSOR TO BE ADJUSTED TO MAXIMUM SENSITIVITY.



GENERAL NOTES

1. FINAL CONNECTIONS TO ALL LAY-IN FIXTURES AND RECESSED INCANDESCENT FIXTURES IN LAY-IN CEILINGS ARE TO BE MADE WITH GREENFIELD FLEXIBLE CONDUIT. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL BE 6'-0". (U.N.O.)
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF SPEAKER AND LIGHT FIXTURE LAY-OUT. CONTRACTORS TO COORDINATE LOCATIONS OF LIGHTING, SPEAKERS, AIR DIFFUSERS, GRILLES, AND THE LIKE, WITH REFLECTED CEILING LAY-OUTS AS REQUIRED AND DIRECTED BY THE ARCHITECT.
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND/OR ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LIGHT FIXTURE REQUIRED FOR THE CEILING CONSTRUCTION PRIOR TO ORDERING THE FIXTURES AND SHALL PROVIDE FIXTURES THAT ARE COMPATIBLE WITH THE CEILING SYSTEM.
4. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR. MECHANICAL/ ELECTRICAL BONDS OF THE METALLIC RACEWAY SYSTEM SHALL ALSO BE MAINTAINED.
5. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT. COORDINATE LOCATION OF DISCONNECT SWITCH ASSOCIATED WITH EACH PIECE OF EQUIPMENT WITH RESPECTIVE CONTRACTOR AND INSTALL IN ACCORDANCE WITH THE NEC.
6. REFER TO DIV. 15 (21, 22 & 23) SPECIFICATIONS, HVAC PLANS, PLUMBING AND FIRE PROTECTION PLANS FOR ADDITIONAL ELECTRICAL WORK REQUIREMENTS AND COORDINATION.
7. ALL RECEPTACLES SHOWN BACK-TO-BACK IN WALLS SHALL BE SEPARATED HORIZONTALLY BY 8" MINIMUM.
8. WIRING IN PLENUMS SHALL BE PLENUM RATED. ALL WIRE SHALL BE INSTALLED IN CONDUIT U.N.O.
9. BRANCH CIRCUIT CONDUCTOR SIZES (AND CONDUITS) SHALL BE INCREASED FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED A LIMIT OF 3%.
10. REGARDLESS OF THE TEMPERATURE RATING OF THE CONDUCTOR INSULATION, ALL CONDUCTOR AMPACITY RATINGS FOR THIS PROJECT SHALL BE DETERMINED FROM THE 75°C CONDUCTOR TEMPERATURE RATINGS INDICATED IN THE NEC TABLES. WHERE EQUIPMENT OR DEVICES ARE PROVIDED WITH TERMINALS/LUGS RATED FOR 60°C, THE AMPACITY RATING OF THE 75°C CONDUCTOR SHALL BE LIMITED TO ITS ASSOCIATED 60°C RATING AS INDICATED IN THE NEC TABLES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO INCREASE THE CONDUCTORS AND CONDUIT SIZE AS REQUIRED.
11. ALL 120V AND 277V BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRAL CONDUCTORS. SHARED NEUTRALS WILL NOT BE PERMITTED FOR MULTI-CIRCUIT INSTALLATIONS. WHERE MULTIPLE CIRCUITS ARE RUN IN A COMMON RACEWAY, THE AMPACITY OF THE CONDUCTORS SHALL BE PROPERLY DERATED & CONDUIT SHALL BE SIZED PER CODE. UNDER NO CIRCUMSTANCES SHALL MORE THAN SIX (6) CURRENT CARRYING CONDUCTORS BE RUN IN A SINGLE CONDUIT. REFERENCE NEC ARTICLE AND TABLE 310.15(B)(2)(a).
12. ALL CONDUITS SHALL CONTAIN A GROUND CONDUCTOR SIZED PER NEC TABLE #250.122. IN ADDITION, WHERE AN ISOLATED, INSULATED GROUND IS REQUIRED, A SEPARATE GROUND CONDUCTOR WITH GREEN INSULATION SHALL BE RUN FROM THE PANEL GROUND BUS TO THE ISOLATED GROUND CONNECTION OF THE DEVICE. IN NO CASE SHALL THE SYSTEM GROUND (CONDUCTOR & ASSOCIATED OUTLET BOXES, CONDUIT & BUILDING STEEL) BE ALLOWED TO CONTACT THE ISOLATED GROUND (CONDUCTOR & DEVICE). WHERE CIRCUIT CONDUCTORS ARE INCREASED IN SIZE FOR VOLTAGE DROP, THE GROUND CONDUCTOR SIZE SHALL BE INCREASED PROPORTIONATELY (ACCORDING TO CIRCULAR MIL AREA) FROM THE SIZE REQUIRED BY NEC TABLE #250.122.
13. ELECTRICAL INSTALLATION REQUIREMENTS FOR ALL HVAC, PLUMBING, FIRE PROTECTION, SPECIAL SYSTEMS AND OWNER EQUIPMENT BEING FURNISHED BY OTHERS SHALL BE REVIEWED AND COORDINATED WITH OTHER TRADES PRIOR TO ROUGH-IN. OBTAIN EQUIPMENT SHOP DRAWINGS FROM INSTALLER/SUPPLIER/CONTRACTOR/OWNER FURNISHING EQUIPMENT, AS REQUIRED, FOR REVIEW AND COORDINATION. CONTACT ARCHITECT/ENGINEER WITH ANY DISCREPANCIES FOUND BETWEEN CONSTRUCTION DRAWINGS AND EQUIPMENT BEING FURNISHED PRIOR TO ROUGH-IN.
14. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL ACCESS PANELS, AS REQUIRED FOR SERVICING AND TESTING, FOR EQUIPMENT AND/OR DEVICES FURNISHED UNDER HIS CONTRACT. THE GENERAL CONTRACTOR SHALL INSTALL ACCESS PANELS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF EACH ACCESS PANEL WITH THE ARCHITECT AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
15. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID ALL CUTTING, TRENCHING AND PATCHING ASSOCIATED WITH THE ELECTRICAL INSTALLATION.
16. ALL PENETRATIONS THROUGH FIRE RATED WALLS ASSOCIATED WITH THE ELECTRICAL INSTALLATION SHALL BE SLEEVED AND FIRE-STOPPED USING A UL APPROVED METHOD. UL APPROVED METHOD SHALL MEET OR EXCEED FIRE RATING OF STRUCTURE BEING PENETRATED. REFERENCE ARCHITECTURAL PLANS FOR FIRE RATED STRUCTURES.
17. NO CONDUIT, BOXES, WIRING, OR CABLES SHALL BE INSTALLED WITHIN 1 1/2" OF THE LOWEST POINT OF THE UNDERSIDE OF THE ROOF DECKING, NOR SHALL THEY BE INSTALLED CONCEALED WITHIN METAL-CORRUGATED ROOF DECKING. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT, BOXES, WIRING, AND CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
18. ALL ELECTRICAL EQUIPMENT AND DEVICES FOR THIS PROJECT MUST BE UL LISTED. DEVICES, EQUIPMENT, SYSTEMS SHALL BE INSTALLED PER N.E.C REQUIREMENTS AND MANUFACTURER'S INSTRUCTIONS.
19. ALL CONDUIT AND CABLING SHALL BE PROPERLY SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRICAL CODE. FOR EXISTING INSTALLATIONS, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AND/OR REWORK EXISTING CONDUIT AND/OR CABLING THAT IS NOT IN COMPLIANCE WITH THIS REQUIREMENT.
20. CONTRACTOR SHALL FIELD VERIFY SLAB ON GRADE FLOOR CONSTRUCTION TYPE PRIOR TO CUTTING. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR CUT A STRUCTURAL FLOOR SLAB THICKER THAN FOUR (4") INCHES WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER OF RECORD. NOTIFY ENGINEER OF RECORD OF ANY SLAB THICKNESS GREATER THAN FOUR (4") INCHES PRIOR TO PROCEEDING WITH ANY SAW CUTTING.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	CONDUIT WITH WIRING RUN CONCEALED IN OR ABOVE CEILING OR WALL. OR RUN EXPOSED IN UNFINISHED AREAS. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 A.W.G. - MINIMUM), PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN. SHADED DOT (●) INDICATES CODE-SIZED ISOLATED GROUND WIRE IN CONDUIT.
	CONDUIT WITH WIRING RUN CONCEALED BELOW FLOOR. CROSS HATCHING INDICATES NUMBER OF CONDUCTORS (#12 A.W.G. - MINUMUM). PROVIDE A CODE-SIZED GROUND WIRE IN ALL CONDUITS IN ADDITION TO THE CONDUCTORS SHOWN. CUT AND PATCH FLOOR AS REQUIRED.
	LIGHTING PANELBOARD MOUNTED 6'-6" TO TOP. SEE PANEL SCHEDULES AND ELECTRICAL ONE-LINE DIAGRAM.
$_{h}$	DISCONNECT SAFETY SWITCH - TYPE AND RATING AS SHOWN ON PLANS
$_{h}$	COMBINATION MAGNETIC STARTER NON-FUSED DISCONNECT SWITCH WITH HOA
$_{F}$	COMBINATION MAGNETIC STARTER / FUSED DISCONNECT SWITCH WITH HOA
$	20A - 120V/277V SINGLE POLE TOGGLE SWITCH MOUNTED 44" AFF. UNLESS NOTED OTHERWISE (WHERE INDICATED - SUBSCRIPT "3" DENOTES 3 WAY SWITCH AND SUBSCRIPT)
	20A-125V GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED 18" A.F.F., U.N.O. FINISH COLOR TO MATCH ARCHITECTURAL FINISH.
	20A-125V GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE MOUNTED 18" A.F.F. U.N.O. FINISH COLOR TO MATCH ARCHITECTURAL FINISH.
IG	20A-125V ISOLATED GROUND TYPE DUPLEX RECEPTACLE MOUNTED 18" A.F.F. U.N.O. FINISH COLOR TO BE ORANGE UNLESS DIRECTLY VISIBLE TO CUSTOMERS. IF DIRECTLY VISIBLE TO CUSTOMERS, FINISH TO MATCH ARCHITECTURAL.
IG	20A-125V ISOLATED GROUND TYPE DOUBLE DUPLEX RECEPTACLE MOUNTED 18" A.F.F. U.N.O. FINISH COLOR TO BE ORANGE UNLESS DIRECTLY VISIBLE TO CUSTOMERS. IF DIRECTLY VISIBLE TO CUSTOMERS, FINISH TO MATCH ARCHITECTURAL.
GFI	20A-125V GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE MOUNTED 48" A.F.F., UNLESS NOTED OTHERWISE. FINISH TO MATCH ARCHITECTURAL FINISH. PROVIDE WEATHER RESISTANT (WR) TYPE FOR ALL DAMP AND WET LOCATIONS.
	20A-2P-3W-125V SPLIT (2-CIRCUIT) GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED AT 18" A.F.F., UNLESS NOTED OTHERWISE. ONE CIRCUIT SHALL FEED TOP HALF AND ONE CIRCUIT SHALL FEED BOTTOM HALF OF RECEPTACLE.
	20A-125V GROUNDING TYPE DUPLEX RECEPTACLE FLOOR MOUNTED. WIREMOLD (LEGRAND) RC7-A-TC-AL U.O.N.
	20A-125V GROUNDING TYPE QUAD RECEPTACLE FLOOR MOUNTED. WIREMOLD (LEGRAND) RC9A-15-TC-AL U.O.N.
	JUNCTION BOX - SIZE AS REQUIRED BY N.E.C.
XX	INDICATES CODED NOTE
	DOORBELL PUSH BUTTON MTD. 48" A.F.F.
B	DOORBELL MTD. 84" A.F.F. U.O.N.
$_{M}$	MANUAL MOTOR STARTER WITH SIZED OVERLOAD PROTECTION.
$_{K}$	LIGHTING CONTROL OVERRIDE OR ROLLING GRILLE KEY SWITCH
$_{T}$	ELECTRONIC IN-WALL COUNTDOWN TIMER. 120V, 20A, MOUNTED AT 44" AFF U.O.N. INTERMATIC: FD30MWC (DECO), FD15MWC (LOUNGE)
OR P	SPEAKER. FLUSH MOUNTED AND FINISH TO MATCH ARCHITECTURAL FINISH U.O.N.
	"P" ADJACENT TO SYMBOL INDICATES PENDANT MOUNTED
5(D)	COMMUNICATIONS OUTLET MOUNTED AT 18" A.F.F. U.O.N. PROVIDE CONDUIT (WITH PULL STRING) SIZED PER SPECIFICATION'S FILL REQUIREMENTS FOR CAT6 (3/4" MINIMUM) TO DATA RACK IN LAN ROOM WITH CABLING PER SPECIFICATIONS. "W" ADJACENT TO SYMBOL INDICATES WALL MOUNTED AT 48" A.F.F. REFER TO RESPONSIBILITY SCHEDULE SECTION 16740
	LETTER(S) ADJACENT TO SYMBOL DEFINES THE USE OF THE OUTLET: D - DATA
	NUMBER ADJACENT TO SYMBOL DEFINES THE QUANTITY OF CAT6 CABLES PROVIDED AND INSTALLED BY TECHNOLOGY CONTRACTOR.
SM BM	SILVER OR BRONZE MIRROR THE FULL HEIGHT AND WIDTH OF THE COLUMN FROM FLOOR TO CEILING. IF A BASEBOARD IS PRESENT, THEN MIRROR HEIGHT IS FROM THE BASEBOARD TO CEILING. FURNISHED AND INSTALLED BY OTHERS.
MFSD	MOTORIZED FIRE SMOKE DAMPER. COORDINATE WITH MECHANICAL CONTRACTOR.
DOME CAMERA	DOME CAMERA FURNISHED BY OTHERS, INSTALLED AND WIRED BY E.C. WIRE TYPE (RG59U TO DVR)
FIXED CAMERA	FIXED CAMERA FURNISHED BY OTHER, INSTALLED AND WIRED BY E.C. WIRE TYPE (RG59U TO DVR)
GSM	GSM RADIO
CR	CARD READER
1(D)	COMMUNICATION OUTLET MOUNTED AT +18" A.F.F. U.O.N. PROVIDE CONDUIT (WITH PULL STRING) SIZED PER SPECIFICATION'S FILL REQUIREMENTS FOR CAT6 CABLE (3/4" MINIMUM) TO DATA RACK IN LAN ROOM (OR MEDIA CONTROL LOCATION) WITH CABLING PER SPECIFICATIONS.
	LETTER(S) ADJACENT TO SYMBOL DEFINES THE USE OF THE OUTLET: D - DATA
	NUMBER ADJACENT TO SYMBOL DEFINES THE QUANTITY OF CAT6 CABLES PROVIDED, INSTALLED AND TERMINATED (RJ45 U.O.N.) BY TECHNOLOGY CONTRACTOR. E.C. OR MEDIA VENDOR DEPENDING ON PROJECT. CHECK WITH H&M CONSTRUCTION PROJECT MANAGER AND IT PROJECT MANAGER FOR DETAILS.

ELECTRICAL ABBREVIATIONS

A	AMPS
AC	AIR CONDITIONING UNIT
AFC	ABOVE FINISH COUNTER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
AIC	ASYMMETRICAL INTERRUPTING CURRENT
ARCH.	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAGE
BKR	BREAKER
BLDG.	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHILLER
CONTR	CONTRACTOR
CT	COOLING TOWER
CU	COPPER
CUH	CABINET UNIT HEATER
DE	DUAL ELEMENT
DN	DOWN
DS	DISCONNECT SWITCH
DWG.	DRAWING
(E) or EXIST.	EXISTING
EBB	ELECTRIC BASEBOARD
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EH	ELECTRIC HEATER
ELEC.	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQ.	EQUAL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
F	FUSE
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FC	FAN COIL UNIT
FLUOR	FLUORESCENT
FPB	FAN POWER BOX (VAV)
F.P.C.	FIRE PROTECTION CONTRACTOR
FS	FLOW SWITCH
FT.	FOOT/FEET
G.C.	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTING PROTECTION
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING, VENTILATION, AIR CONDITIONING
IG	ISOLATED GROUND
INCAND.	INCANDESCENT
JB	JUNCTION BOX
KCMIL	ONE THOUSAND CIRCULAR MILS
K.E.C.	KITCHEN EQUIPMENT CONTRACTOR
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MATV	MASTER ANTENNA TV
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
M.C.	MECHANICAL CONTRACTOR
MECH.	MECHANICAL
MFR	MANUFACTURER
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOD	MOTOR OPERATED DAMPER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
NEC	NATIONAL ELECTRIC CODE
NF	NON FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
Ø or PH	PHASE
P	POLE
PB	PULL BOX
P.C.	PLUMBING CONTRACTOR
PNL.	PANEL
PRE	POWER ROOF EXHAUSTER
PVC	POLYVINYL CHLORIDE
RTU	ROOF TOP UNIT
SPKR	SPEAKER
SPST	SINGLE POLE SINGLE THROW
TIE	MULTIPLE OUTLETS WIRED ON SAME BRANCH CIRCUIT
TS	TAMPER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TYP.	TYPICAL
UH	GAS FIRED UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
V	VOLTS
W	WATTS
WP	WEATHERPROOF TYPE DEVICE (NEMA 3R RATED)
WR	WEATHER RESISTANT TYPE DEVICE
XFMR	TRANSFORMER

NOTE:

IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM FOR EACH ZONE AND/OR CONTACTOR REGARDLESS OF CIRCUIT INDICATED.

THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE IN THE MANNER INTENDED AND SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE TENANT'S REPRESENTATIVE PRIOR TO FABRICATION OR PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATED TO THE AREA.

ALL WIRING SHALL BE IN CONDUIT

E.M.T. OR RIGID

FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC., MAX LENGTH 6 FEET.

NO BX, ROMEX, ARMORED CABLE, ETC. ALLOWED.

THIS APPLIES TO ALL ELECTRICAL SYSTEMS, INCLUDING: POWER, LIGHTING, CONTROLS, HVAC, ETC.

DATA AND PHONE SHALL BE IN E.M.T. OR RIGID ONLY.

AUDIO CABLES AND SECURITY CABLES SHALL BE PLENUM RATED AND ARE NOT REQUIRED TO BE IN CONDUIT IN CEILINGS (UNLESS LOCAL CODE REQUIRES). BACK BOXES AND CONDUIT STUBS TO CEILING ARE ALWAYS REQUIRED.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

SHEET TITLE:
ELECTRICAL LEGENDS, NOTES AND DETAILS

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 1 of 22

E-001.00

DOB NO:

LIGHTING FIXTURE SCHEDULE (120V & 277V)

TYPE	LOAD (VA)	LAMPS No.	LAMPS TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	H&M CATALOG NUMBER	IPS FIXTURE COUNT	CD FIXTURE COUNT
C (SALES)	44	1	PLT42/30/4P/ALTO	JUNO LIGHTING (INDY)	FD18-42-E-SACSF-BB1-I-CP ITEM #:- ACCESSORIES:	6" RECESSED 42W COMPACT FLUORESCENT OPEN DOWNLIGHT WITH INTEGRAL EMERGENCY BATTERY PACK AND INTEGRAL TEST SWITCH CLEAR ALZAK REFLECTOR AND STAINLESS STEEL TRIM RING. 277VAC. NOTE 1.	109079-01	NA	44
E2	23	1	MT-C 20W	SPECIALTY LIGHTING (NORDIC)	- ITEM #:150981-01 ACCESSORIES:	6" RECESSED 20W RECESSED SPOTLIGHT METAL HALIDE W/ CLEAR GLASS LENS AND WHITE TRIM. ADJUSTABLE ACCENT. 277VAC. NOTE 1.	150502-01	56	53
E4	44	1	MT 39W/T6	SPECIALTY LIGHTING (NORDIC)	- ITEM #: 150986-01 ACCESSORIES:	8" RECESSED 39W RECESSED ADJUSTABLE SPOTLIGHT METAL HALIDE W/ CLEAR GLASS LENS, AND TRIMLESS. MEDIUM BEAM SPREAD. WHITE FINISH. 277VAC. NOTE 1.	150986-01	0 (2)	0
F	44	1	MT 39W/T6	SPECIALTY LIGHTING (NORDIC)	- ITEM #:102087-01 ACCESSORIES:	8.5" RECESSED 39W METAL HALIDE DOWNLIGHT WITH CYLINDRICAL ANODIZED REFLECTOR AND FLOOD BEAM SPREAD, AND WHITE TRIM RING. 277VAC. NOTE 1.	143113-1	178	134
FM	44	1	MT 39W/T6	SPECIALTY LIGHTING (NORDIC)	- ITEM #: 102599-01 ACCESSORIES:	8.5" RECESSED 39W METAL HALIDE DOWNLIGHT WITH CYLINDRICAL ANODIZED REFLECTOR AND MEDIUM BEAM SPREAD, AND WHITE TRIM RING. 277VAC. NOTE 1.	143121-01	11	11
G	61	2	F32T8/830/ALTO	DAY-BRITE	T232-UNV-1/2-EB10I/ FKR-126, WITH LAMP (ADD "ES" AS REQUIRED)	UNISTRUT MOUNTED FLUORESCENT FIXTURE. WITH ELECTRONIC BALLAST. 277VAC. NOTE 3. SURFACE MOUNTED FLUORESCENT FIXTURE IN JANITOR'S CLOSET. (GYP. BD CEILING)	N/A	NA	27 EC TO VERIFY WITH LIGHTING PLAN
H3	61	2	F32T8/830/ALTO	DAY-BRITE	2TG8231U6-21-UNV- 1/2-EB10I (ADD "ES" AS REQUIRED)	2'x2' RECESSED FLUORESCENT FIXTURE WITH .125" ACRYLIC PRISMATIC LENS, FLAT STEEL DOOR AND ELECTRONIC BALLAST. 277VAC. NOTE 3.	N/A	NA	30 EC TO VERIFY WITH LIGHTING PLAN
H4	61	2	F32T8/830/ALTO	DAY-BRITE	2TF8231U6-21-UNV- 1/2-EB10I (ADD "ES" AS REQUIRED)	2'x2' RECESSED FLUORESCENT FIXTURE WITH .125" ACRYLIC PRISMATIC LENS, FLAT STEEL DOOR AND ELECTRONIC BALLAST. 277VAC. NOTE 3.	N/A	NA	2 EC TO VERIFY WITH LIGHTING PLAN
EX1	5	-	WITH UNIT	LITHONIA	EDGR-X-GMR-EL	L.E.D. EDGE-LIT EXIT SIGN WITH STENCIL FACE, GREEN LETTERS. MIRROR FACE, BRUSHED ALUMINUM HOUSING. UNIVERSAL MOUNTING AND EMERGENCY BATTERY PACK SINGLE OR DOUBLE FACE AND ARROWS AS INDICATED ON PLANS. 120/277VAC. NOTE 3.	N/A	NA	14 EC TO VERIFY WITH LIGHTING PLAN
EX2	5	-	WITH UNIT	LITHONIA	LQMSW3G120/277	L.E.D. EXIT SIGN WITH STENCIL FACE, GREEN LETTERS, WHITE POLYCARBONATE FACE AND HOUSING, UNIVERSAL MOUNTING AND EMERGENCY BATTERY PACK SINGLE OR DOUBLE FACE AND ARROWS AS INDICATED ON PLANS. 120/277VAC. NOTE 3.	N/A	NA	13 EC TO VERIFY WITH LIGHTING PLAN
EM1	70	-	35W MR16 WITH UNIT	LITHONIA	VEL1270 (LAMP #H3512)	12V ADJUSTABLE MR16 35W CONCEALED EMERGENCY FIXTURE W/ WHITE FINISH. FINISH SHALL BE FIELD PAINTED TO MATCH CEILING COLOR. STANDARD SELF-DIAGNOSTIC. 120/277VAC. NOTE 3.	N/A	NA	4 EC TO VERIFY WITH LIGHTING PLAN
B2	88	2	MT 39W/T6	SPECIALTY LIGHTING (NORDIC)	- ITEM #: 150800-01 ACCESSORIES: 1951	2-LAMP 39W TRIMLESS METAL HALIDE ADJUSTABLE ACCENT FIXTURE WITH NL POWER ELECTRONIC BALLAST. WHITE FINISH. 277VAC. NOTE 1	150215-01	4	4

TYPE	LOAD (VA)	LAMPS No.	LAMPS TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	H&M CATALOG NUMBER	IPS FIXTURE COUNT	CD FIXTURE COUNT
M	32	1	F39T5/800/ALTO	SPECIALTY LIGHTING	- ITEM #:145735-01	5' SURFACE MOUNTED WALL LIGHT. 120VAC. NOTE 1	145735-01	NA	30
TW			SEE T1,T2, FOR TRACK HEAD INFORMATION	SPECIALTY LIGHTING (NORDIC)	102412-01 SURFACE MOUNTED 1-CIRCUIT ACCESSORIES: LEFT LIVE END (110815-01) RIGHT LIVE END (110816-01) 90 DEGREE CORNER (110814-01) "T" CONNECTOR LEFT (110812-01) "T" CONNECTOR RIGHT (110813-01) COUPLING (110811-01) FLEX CONNECTOR (110844-01) SUSPENSION KIT (110865-01) SUSPENSION PLATE (110863-01) I-FEED (136913-01)	SURFACE MOUNTED 1-CIRCUIT LIGHT TRACK WITH WHITE FINISH AND ALL RELATED ACCESSORIES, FEEDS, CONNECTORS, ETC. INCLUDING ASSEMBLY AND ITS ACCESSORIES. 120VAC. NOTE 1.	110807-01 110815-01 110816-01 110814-01 110812-01 110813-01 110811-01 110844-01 110865-01 110863-01 136913-01	216 PIECES OF 8' TRACK - - - - - - - - -	1645'-5" 212 PCS OF 8' TRACK 30 30 3 0 0 200 0 40 40 20
TG			SEE T4,T5 FOR TRACK HEAD INFORMATION	SPECIALTY LIGHTING (NORDIC)	103420-01 SURFACE MOUNTED 1-CIRCUIT ACCESSORIES: LEFT LIVE END (110856-01) RIGHT LIVE END (110857-01) 90 DEGREE CORNER (110855-01) "T" CONNECTOR LEFT (110853-01) "T" CONNECTOR RIGHT (110854-01) COUPLING (110851-01) FLEX CONNECTOR (110852-01) SUSPENSION KIT (110865-01) SUSPENSION PLATE (110863-01) I-FEED (136914-01)	SURFACE MOUNTED 1-CIRCUIT LIGHT TRACK WITH GREY FINISH AND ALL RELATED ACCESSORIES, FEEDS, CONNECTORS, ETC. INCLUDING ASSEMBLY AND ITS ACCESSORIES. 120VAC. NOTE 1.	110850-01 110856-01 110857-01 110855-01 110853-01 110854-01 110851-01 110852-01 110865-01 110863-01 136914-01	66 PIECES OF 8' TRACK - - - - - - - - - -	496'-0" 64 PCS OF 8' TRACK 16 16 0 0 0 55 0 12 12 0
T1	44	1	MT-C35W/GU6.5	SPECIALTY LIGHTING (NORDIC)	ITEM #:SEE H&M CAT. # 111130-01 ACCESSORIES: O-64361	35W METAL HALIDE TRACK HEAD WHITE, MEDIUM SPOT, 120VAC. NOTES 1 & 2.	110916-01	191	191
T2	44	1	MT-C35W/GU6.5	SPECIALTY LIGHTING (NORDIC)	ITEM #:SEE H&M CAT. # 111129-01 ACCESSORIES: O-64361	35W METAL HALIDE TRACK HEAD WHITE, NARROW SPOT, 120VAC. NOTES 1 & 2.	110915-01	191	191
T4	44	1	MT-C35W/GU6.5	SPECIALTY LIGHTING (NORDIC)	ITEM #:SEE H&M CAT. # 111278-01 ACCESSORIES: O-64361	35W METAL HALIDE TRACK HEAD GREY, MEDIUM SPOT, 120VAC. NOTES 1 & 2.	110932-01	61	61
T5	44	1	MT-C35W/GU6.5	SPECIALTY LIGHTING (NORDIC)	ITEM #:SEE H&M CAT. # 111279-01 ACCESSORIES: O-64361	35W METAL HALIDE TRACK HEAD GREY, NARROW SPOT, 120VAC. NOTES 1 & 2.	110931-01	61	61
T13	45	1	CDM35/T6/830	SPECIALTY LIGHTING (NORDIC)	- ITEM #:SEE H&M CAT. # ACCESSORIES: O-64361	39W METAL HALIDE TRACK HEAD WHITE, WIDE FLOOD, 120VAC. NOTES 1 & 2.	133442-01	12	12
LIGHTBOX 2,3,4,5,6,7	480	-	LED	SPECIALTY LIGHTING	153252-01	(2) SECTIONS, H2200 LIGHTBOX	153252-01	6	6
LIGHTBOX.1	400	-	LED	SPECIALTY LIGHTING	153247-01	(4) SECTION, H1200 LIGHTBOX	153247-01	1	1
LIGHTBOX 8,9,10	160	-	LED	SPECIALTY LIGHTING	153251-01	(1) SECTION, H1800 LIGHTBOX	153251-01	3	3
WW	44	1	MT35W/G12	SPECIALTY LIGHTING (NORDIC)	- ITEM #: 109035-01 ACCESSORIES:	METAL HALIDE WALLWASHER CYLINDRICAL ANODIZED REFLECTOR WITH ADJUSTABLE BEAM SPREAD, AND WHITE TRIM RING. 277VAC. NOTE 1.	143835-01	118	118
WG	44	1	MT35W/G12	SPECIALTY LIGHTING (NORDIC)	- ITEM #: 109062-01 ACCESSORIES:	METAL HALIDE WALLWASHER CYLINDRICAL ANODIZED REFLECTOR AND FLOOD BEAM SPREAD, AND GREY TRIM RING. 277VAC. NOTE 1.	143832-01	39	39

FIXTURE SCHEDULE NOTES

1. FIXTURE AND LAMP(S) FURNISHED BY H & M, AND INSTALLED AND WIRED BY E.C.:

   (TYPES B2,B3,B4,B5,C,DLS,E,E1,E2,E3,E4,E5,F,F2,FL,FM, FN,I,I2,I3,J,K,LLEL5,L4,L3,L2,L1,N,N1,N2,PH,P1,P2,PL,R1,R2,R3, R4,R5,R6,R7,R8,TW,M,M1,M2,TW,TG,T1,T2,T3,T4,T5,T6,T7,T8,T9. T10,T11,T12,T13,V,V2,V3,WW,WWL,WG,WGL,WL,WH1,WH2,WH3)
   SPECIALTY LIGHTING CONTACT:

   JUSTINE STEUERWALD
   SPECIALTY LIGHTING
   1-860-767-0110 x 210
   35 INDUSTRIAL PARK ROAD #10
   CENTERBROOK CT, 06409

2. VERIFY INSTALLATION LOCATION WITH H & M REP. THE E.C. SHALL INCLUDE IN HIS BID, THE LABOR COST TO INSTALL APPROX. 600 TRACK FIXTURES AND TRACK HEADS ARRANGED PER CURRENT LIMITER SIZE. E.C. SHALL FIELD CUT TRACK AS REQUIRED.

3. LIGHT FIXTURES, EXIT SIGNS, AND LAMP(S) FURNISHED, INSTALLED AND WIRED BY E.C.. ACCEPTABLE ALTERNATE MANUFACTURERS SHALL BE:

TYPE G,GS,G1,H,HS,H1,H3,H4:	LITHONIA, METALUX, DAY-BRITE, HUBBELL
TYPE EX1,EX2,EM,TP,T:	SURELITES, EMERGI-LITE, LITHONIA
TYPE EM1,EM2,EM3,EM4:	SPECIFIED FIXTURE ONLY

4. SHADED SALES LIGHT FIXTURES AND HALF-SHADED NON-SALES LIGHT FIXTURES ON THE E200 SERIES DRAWINGS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BALLAST.
5. E.C. SHALL RELAMP AND PROVIDE NEW BALLASTS AS REQUIRED FOR ALL FIXTURES PRIOR TO TURN OVER (INCLUDING ALL SALES, MIRROR, B-O-H , AND EXTERIOR LIGHTING AND EXISTING LIGHTING WITHIN THE LEASED SPACE)
6. E.C. SHALL FURNISH AND INSTALL ALL MOUNTING AND SUPPORT HARDWARE AS REQUIRED FOR OWNER FURNISHED FIXTURE TYPE WL, WH1, WH2, WH3, ALL ALL E.C. FURNISHED FIXTURES.
7. E.C. SHALL REFER TO TENANT PROVIDED "STANDARDS PACKAGE" FOR ADDITIONAL AND UP-TO-DATE LIGHT FIXTURE INFORMATION. THE H&M HOW-TO-LIGHT AND HOW-TO-BUILD CATALOGUES SHALL SUPPLEMENT THIS DRAWING SET. E.C. SHALL VERIFY THIS PACKAGE WAS RECEIVED PRIOR TO BID.
8. ALL FIXTURES SHALL BE BY N.Y.C. APPROVED, CHICAGO PLENUM APPROVED, AS REQUIRED.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

SHEET TITLE:
LIGHTING FIXTURE SCHEDULE

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 2 of 22

E-010.02

DOB NO:

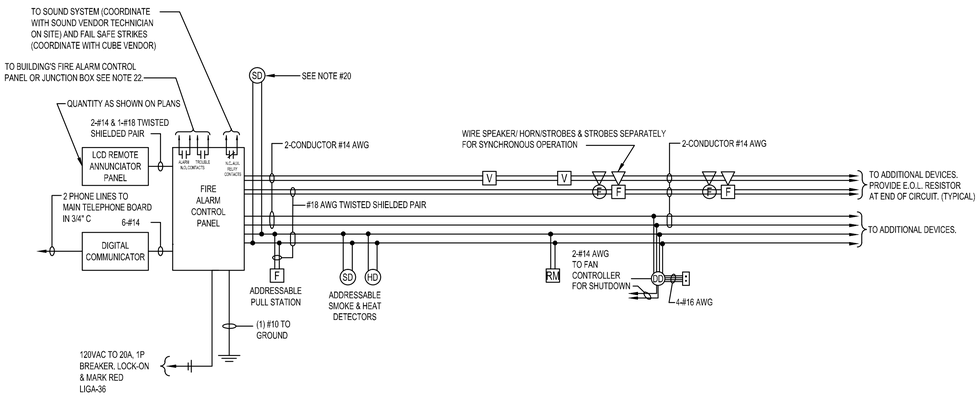
FIRE ALARM SYSTEM NOTES

1. THE FIRE ALARM SYSTEM MUST BE INSTALLED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND MUST MEET ALL STATE & LOCAL CODE REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL CODE REQUIRED DOCUMENTS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:
   A. A FLOOR PLAN WHICH INDICATES THE USE OF ALL ROOMS.
   B. LOCATIONS OF ALARM-INITIATING AND NOTIFICATION APPLIANCES.
   C. ALARM CONTROL AND TROUBLE SIGNALING EQUIPMENT.
   D. ANNUNCIATION.
   E. POWER CONNECTION.
   F. BATTERY CALCULATIONS.
   G. CONDUCTOR TYPE AND SIZES.
   H. VOLTAGE DROP CALCULATIONS.
   I. MANUFACTURERS, MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
   J. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.
   K. THE INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.

   THESE DOCUMENTS MUST BE PREPARED BY A CERTIFIED FIRE ALARM DESIGNER AND MUST BE SUBMITTED TO THE LOCAL AUTHORITIES FOR REVIEW AND APPROVAL PRIOR TO ROUGH-IN OF SYSTEM.
2. WHERE REQUIRED BY CODE, BY LOCAL AUTHORITIES HAVING JURISDICTION, WITHIN INACCESSIBLE LOCATIONS, OR WITHIN WALLS, ALL WIRING SHALL BE IN CONDUIT & SHALL BE SIZED PER THE NATIONAL ELECTRIC CODE. DO NOT RUN ANY OTHER WIRING IN THE SAME CONDUIT WITH ALARM WIRING. DO NOT RUN 120VAC WIRING WITH ALARM WIRING. ALL WIRE TO BE SHIELDED CABLE. ALL J-BOXES ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE SPRAY PAINTED "FIRE ENGINE" RED. WHERE CONDUIT IS NOT REQUIRED, VERIFY PLENUM RATED "RED" FIRE ALARM CABLE IS USED AND PROPERLY SUPPORTED PER NEC.
3. ALL WIRE & CABLE MUST BE RATED PER THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE SECTION 760.
4. CONFIRM ALL WIRING REQUIREMENTS WITH PROPOSED FIRE ALARM SUPPLIER PRIOR TO BID AND PROVIDE IN ACCORDANCE THEREWITH. WIRING SHOWN ON THIS DIAGRAM REPRESENTS THE MINIMUM SIZE REQUIRED. WIRE SIZES SHALL BE INCREASED AS REQUIRED FOR VOLTAGE DROP.
5. WIRING SHALL BE CONTINUOUS FROM ONE DEVICE TO THE NEXT. SPLICING IS PROHIBITED.
6. THE TYPICAL WIRING DIAGRAM IS NOT INTENDED TO SHOW QUANTITIES OF DEVICES. REFER TO PLANS FOR EXACT QUANTITIES.
7. ALL CONDUCTORS INCLUDING SHIELDS MUST TEST FREE OF OPENS, SHORTS & GROUNDS BEFORE MAKING CONNECTIONS TO THE FIRE ALARM CONTROL PANEL.
8. EACH FIRE ALARM PANEL REQUIRES A DEDICATED 120VAC CIRCUIT. RUN 3-#12 (INCLUDES THE GREEN GROUND WIRE) FROM A 20 AMP CIRCUIT BREAKER. PROVIDE A LOCK-ON CLIP & RED MARKING ON THE BREAKER.
9. SMOKE DETECTOR HEADS MUST BE INSTALLED FREE OF DUST OR ANY OTHER CONTAMINATION. SMOKE DETECTORS SHALL NOT BE MOUNTED WITHIN 3'-0" OF A SUPPLY OR RETURN AIR GRILLE. COORDINATE SMOKE DETECTOR LOCATIONS WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
10. IN ALL ROOMS REQUIRING SMOKE DETECTION, IF THERE IS NOT A SMOOTH, FLAT CEILING, THEN DETECTION SHALL BE SPACED PER NFPA 72. IF THERE ARE BEAM DEPTHS LESS THAN 10% OF THE CEILING HEIGHT (0.1 X H), SMOOTH CEILING SPACES SHALL BE PERMITTED. IF THERE ARE BEAM DEPTHS EQUAL OR GREATER THAN 10% OF THE CEILING HEIGHT (0.1 X H), AND THE BEAM SPACING IS EQUAL TO OR GREATER THAN 40% OF THE CEILING HEIGHT (0.4 X H), SPOT SMOKE DETECTORS SHALL BE LOCATED ON THE CEILING IN EACH BEAM POCKET PER NFPA 72 2007, 5.7.3.2.4.
11. HORNS AND STROBES SHALL BE WIRED SEPARATELY FOR SYNCHRONOUS OPERATION. PROVIDE SYNCHRONIZATION MODULES AS REQUIRED TO COMPLY WITH CODE.
12. DUCT DETECTORS SHALL HAVE REMOTE TEST STATIONS INSTALLED IN AN ACCESSIBLE LOCATION AND BE CLEARLY LABELED TO INDICATE THEIR FUNCTION AND THE MECHANICAL UNIT ASSOCIATED WITH EACH DETECTOR. DUCT DETECTOR TEST STATIONS SHALL BE LOCATED AS CLOSE TO THE APPLIANCES AS POSSIBLE FOR EASE IN LOCATING AND UNLESS ASSOCIATED WITH ROOF TOP MECHANICAL UNITS
   A. IF THERE IS A DROP CEILING, THE REMOTE TEST STATIONS SHALL BE MOUNTED IN CEILING TILES BELOW THE DUCT DETECTORS.
   B. IF THERE IS A HARD CEILING, THE REMOTE TEST STATIONS SHALL BE LOCATED IN THE CEILING NEXT TO A MINIMUM OF A 2'x4' OR 3'x3' ACCESS PANEL LOCATED BELOW THE DUCT DETECTOR.
   C. IF THERE IS NO CEILING, THE REMOTE TEST STATIONS SHALL BE MOUNTED ON A PILLAR OR WALL AS CLOSE TO THE DEVICE AS POSSIBLE.
13. THE LOCATION OF ALL DETECTORS IN AIR DUCT SYSTEMS SHALL BE PERMANENTLY AND CLEARLY IDENTIFIED AND RECORDED.
14. LOCATIONS OF ALL FIRE ALARM REMOTE TEST STATIONS SHALL BE LABELED PER LOCAL LOCAL AUTHORITY REQUIREMENTS. TEST STATION LOCATIONS SHALL BE FIELD VERIFIED WITH LOCAL AUTHORITY PRIOR TO ROUGH-IN.
15. DUCT DETECTORS SHALL BE INSTALLED AND POSITIONED TO ALLOW EASY ACCESS FOR PERIODIC INSPECTION AND TESTING.
16. FURNISH AND INSTALL A KNOX BOX AS REQUIRED BY LOCAL FIRE DEPARTMENT. EXACT QUANTITIES AND LOCATIONS AS DETERMINED BY LOCAL AUTHORITY. KNOX BOX MANUFACTURER SHALL BE AS REQUIRED BY LOCAL AUTHORITY. PROVIDE AN ADDRESSABLE MONITOR MODULE WHEN REQUIRED.
17. THE FIRE ALARM SUPPLIER SHALL PROVIDE A COPY OF THE PROGRAMMING CODES AND OPERATION MANUALS IN A SLEEVED BINDER ATTACHED TO THE FIRE ALARM CONTROL PANEL.
18. ALL DEVICES TO BE FIELD TESTED WITH WRITTEN CERTIFICATION OF SYSTEM. PERFORM ALL TESTS IN THE PRESENCE OF THE AUTHORITY HAVING JURISDICTION.
19. PROVIDE CONNECTION TO REMOTE SUPERVISION AS DIRECTED FOR SUPERVISION OF SYSTEM IN COMPLIANCE WITH LOCAL AUTHORITY & OWNER. PROVIDE ALL INTERFACE REQUIRED TO INITIATE REMOTE SUPERVISION.
20. PROVIDE & INSTALL A CEILING MOUNTED SMOKE DETECTOR IN FRONT OF FIRE ALARM CONTROL PANEL AND EACH REMOTE MOUNTED AUXILIARY PANEL IN ADDITION TO THE DEVICES SHOWN ON THE FLOOR PLANS.
21. PROVIDE & INSTALL MANUAL STATIONS WHERE REQUIRED BY LOCAL AUTHORITIES TO MEET THE REQUIREMENTS OF NFPA-72 SECTION 3-8.1.2 IN ADDITION TO THE DEVICES SHOWN ON THE PLANS. VERIFY WITH LOCAL AUTHORITY PRIOR TO BIDDING & INDICATE COST IN BID PRICE.
22. PROVIDE 6#14 & CONDUIT FROM FIRE ALARM CONTROL PANEL TO LANDLORD'S FIRE ALARM JUNCTION BOX IN THE MALL'S CORRIDOR (VERIFY LOCATION W/ L.L.) FOR MONITORING OF STATUS, TROUBLE AND ALARM CONDITIONS. ADDITIONAL DEVICES, FINAL CONNECTIONS AND PROGRAMMING TO BE MADE BY LANDLORD'S FIRE ALARM CONTRACTOR AT G.C.'S EXPENSE.
    xxx
    xxx
    xxx
23. THE E.C. SHALL FURNISH AND INSTALL DEVICES WITH FINISH TO MATCH SURROUNDING ARCHITECTURAL FINISH OF WALL/CEILING IF ACCEPTABLE BY LOCAL AUTHORITIES AND CODE.
   A. RED HORN/STROBE & STROBE LIGHTS SHALL BE INSTALLED ON GREY/BLACK FINISHES, AND WHITE HORN/STROBE & STROBE LIGHTS SHALL BE INSTALLED ON WHITE FINISHES.
   B. BLACK SMOKE DETECTORS SHALL BE INSTALLED ON GREY/BLACK FINISHES, AND WHITE SMOKE DETECTORS SHALL BE INSTALLED ON WHITE FINISHES.

FIRE ALARM SYSTEM SPECIFICATIONS

1. EQUIPMENT: ALL DEVICES, COMBINATIONS OF DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LISTED FOR THE PURPOSE FOR WHICH THEY ARE USED AND SHALL BE INSTALLED IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS.
2. PROVIDE A COMPLETE, SUPERVISED, POWER-LIMITED, ADDRESSABLE FIRE ALARM SYSTEM COMPATIBLE WITH LANDLORD'S FIRE ALARM SYSTEM. ACCEPTABLE MANUFACTURERS ARE: SIMPLEX GRINNELL, E.S.T., NOTIFIER.
3. THE FIRE ALARM SYSTEM SHALL BE AN ELECTRICALLY SUPERVISED SYSTEM, WHICH SHALL MONITOR THE INTEGRITY OF CIRCUIT CONDUCTORS AND POWER SUPPLIES.
4. THE INSTALLATION ORGANIZATION SHALL BE A COMPANY SPECIALIZING IN THE INSTALLATION OF FIRE ALARM SYSTEMS. THIS ORGANIZATION SHALL HAVE A MINIMUM OF FIVE YEARS EXPERIENCE WITH INSTALLATION OF SUCH SYSTEMS.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON THE SITE AN UP-TO-DATE RECORD SET OF APPROVED SHOP DRAWINGS.
6. RECORD DRAWINGS SHALL INCLUDE LOCATION OF END-OF-LINE DEVICE LOCATIONS.
7. UPON COMPLETION OF THE WORK, AND FINAL ACCEPTANCE BY THE LOCAL AUTHORITY, THE CONTRACTOR SHALL SUBMIT RECORD DRAWINGS TO THE OWNER.
8. A REMOTE MONITORING FACILITY OUTPUT CIRCUIT, SELECTABLE FOR INTERFACE TO REMOTE STATION REVERSE POLARITY, LOCAL ENERGY MASTER BOX, SHUNT MASTER BOX, DIGITAL ALARM COMMUNICATOR, OR RADIO TRANSMITTER MONITORING SYSTEMS, SHALL BE PROVIDED. THE EQUIPMENT SUPPLIER MUST CONTACT THE LOCAL AUTHORITIES PRIOR TO BIDDING AND SUPPLY ALL REQUIRED EQUIPMENT IN BASE BID.
9. CONTROL PANEL SHALL BE CAPABLE OF MONITORING ALL FIRE ALARM DEVICES INDICATED IN WIRING DIAGRAM AND SHOWN ON THE CONSTRUCTION DOCUMENTS. THE POWER SUPPLY SHALL BE ADEQUATE TO SERVE CONTROL PANEL MODULES. RELAYS AND ALARM INDICATING APPLIANCES. INCLUDE A SECONDARY EMERGENCY POWER SUPPLY WITH CAPACITY FOR OPERATING SYSTEM IN STAND-BY MODE FOR 24 HOURS FOLLOWED BY ALARM MODE FOR 10 MINUTES.
10. ADDRESSABLE PULL STATIONS SHALL BE SEMI-FLUSH, ACTION PUSH/PULL TYPE.
11. SMOKE DETECTORS SHALL BE ANALOG PHOTOELECTRIC TYPE. PROVIDE WITH AUXILIARY RELAY FOR ELEVATOR RECALL WHERE INDICATED WITH A SUBSCRIPT "E". SMOKE DETECTORS SHALL NOT BE MOUNTED WITHIN 3'-0" OF A SUPPLY OR RETURN GRILLE. COORDINATE LOCATIONS WITH MECHANICAL CONTRACTOR. PROVIDE PROPER ACCESS TO SMOKE DETECTORS MOUNTED ABOVE THE CEILING.
12. DUCT-MOUNTED SMOKE DETECTORS SHALL HAVE A BASE WITH AUXILIARY RELAY, ANALOG PHOTOELECTRIC DETECTOR, SAMPLING TUBES (LENGTH AS REQUIRED) AND DUCT DETECTOR REMOTE KEY RESET/TEST STATION WITH ALARM LED.
13. SEMI-FLUSH AUDIO/VISUAL UNIT SHALL BE WITH A.D.A. COMPLYING CANDLA SERIES WITH A.D.A. COMPLYING MULTI-CANDLA STROBE AND SPEAKER. ALL STROBE LIGHTS SHALL BE SYNCHRONIZED. HORNS SHALL BE CIRCUITED SEPARATELY FOR INDIVIDUAL CONTROL.
14. VISUAL ONLY UNIT A.D.A. COMPLYING MINIMUM 75-CANDELA STROBE. ALL STROBE LIGHTS SHALL BE SYNCHRONIZED.
15. LCD ANNUNCIATOR PANEL SHALL BE FLUSH MOUNTED WITH BRUSHED ALUMINUM TRIM PLATE. VERIFY EXACT QUANTITY & LOCATIONS WITH LOCAL AUTHORITIES HAVING JURISDICTION PRIOR TO BID.
16. WATERFLOW AND TAMPER SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL CONNECT EACH DEVICE TO THE FIRE ALARM SYSTEM USING AN INDIVIDUAL ADDRESSABLE MODULE (IAM).
17. PROVIDE AND INSTALL WIRING PER MANUFACTURERS' SPECIFICATIONS. WIRING SHALL BE IN CONDUIT (3/4" MINIMUM) AS REQUIRED AND NOTED IN NOTE 2.
18. THE COMPLETED FIRE ALARM SYSTEM SHALL BE FULLY TESTED IN ACCORDANCE WITH NFPA-72H, AND LOCAL FIRE DEPARTMENT REQUIREMENTS, BY THE INSTALLER, IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND THE LOCAL FIRE MARSHALL. UPON COMPLETION OF A SUCCESSFUL TEST, THE INSTALLER SHALL SO CERTIFY, IN WRITING, TO THE OWNER AND GENERAL CONTRACTOR.
19. INCLUDE ON-SITE SERVICES OF A CERTIFIED TECHNICIAN TO PROVIDE TECHNICAL INSTALLATION SUPPORT FOR PANEL START UP, PROGRAM EDITING, TROUBLESHOOTING OF THE FIRE ALARM SYSTEM CONTROL PANEL, AND ASSISTANCE TO THE INSTALLER FOR ONE COMPLETE FINAL SYSTEM CHECKOUT IN ACCORDANCE WITH THE FIELD QUALITY CONTROL SECTION OF THESE SPECIFICATIONS.
20. FIRE ALARM CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE PROPER AUTHORITIES IN THIS JURISDICTION. THESE SHOP DRAWINGS SHALL INCLUDE, BUT NOT LIMITED TO; BATTERY CALCULATIONS, VOLTAGE DROP CALCULATIONS, MANUFACTURER/MODEL NUMBER/LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.

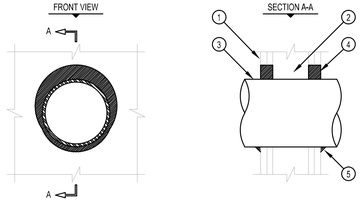


TYPICAL FIRE ALARM DEVICE WIRING DIAGRAM
NTS

UL/cUL SYSTEM NO. W-L-1054

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY
NTS

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L-RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 30" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8", FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH, FOR A 2-HR. FIRE-RATING.
5. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES : 1. MAXIMUM DIAMETER OF OPENING :
A. 32-1/4" FOR STEEL STUD WALLS.
B. 14-1/2" FOR WOOD STUD WALLS.
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/2".

FIRE ALARM SYSTEM SYMBOL LEGEND

SYMBOL	DESCRIPTION
(S)E	ABOVE CEILING AND CEILING-MOUNTED SMOKE DETECTOR (SUPERSCRIPT "E" DENOTES ELEVATOR RECALL)
(S)C (F)C	FIRE ALARM SPEAKER/ HORN/STROBE DEVICE (SUBNOTE "C" DENOTES CEILING MOUNTED)
(V)C	FIRE ALARM VISUAL DEVICE (SUBNOTE "C" DENOTES CEILING MOUNTED)
FS	SPRINKLER SYSTEM FLOW SWITCH BY FPC WIRED BY E.C. COORDINATE WITH MECHANICAL CONTRACTOR.
TS	SPRINKLER SYSTEM TAMPER SWITCH BY FPC WIRED BY E.C. COORDINATE WITH MECHANICAL CONTRACTOR.
(D)A/B	DUCT-TYPE SMOKE DETECTOR WITH REMOTE TEST STATION PROVIDED BY ELECTRICAL CONTRACTOR TO MATCH F.A. SYSTEM DEVICES. WIRED BY E.C. - INSTALLED BY MECHANICAL CONTRACTOR PER CODE. COORDINATE EXACT LOCATION WITH HVAC CONTRACTOR & MANUFACTURER. PROVIDE CONDUIT & WIRING NECESSARY TO SHUT DOWN HVAC UNIT UPON SMOKE DETECTOR ACTIVATION.
FACP	FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION MOUNTED 48" AFF TO TOP.
M	MONITORING MODULE
RM	RELAY MODULE
ANN	FIRE ALARM REMOTE ANNUNCIATOR (FLUSH MOUNTED)
HDH HDH	DOOR HOLD OPEN (EDWARDS: 1508-AQNS (WALL), 1501-AQNS (FLOOR), 1500-1, OR EQUAL)
(H)E	CEILING-MOUNTED HEAT DETECTOR (SUPERSCRIPT "E" DENOTES ELEVATOR RECALL)
SPCP	SMOKE PURGE CONTROL PANEL
FPSC-"X"	FIRE PROTECTIVE SMOKE CURTAIN
GCP	GROUP CONTROL PANEL FOR ATRIUM FIRE PROTECTIVE SMOKE CURTAIN

SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE : 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

SHEET TITLE:
FIRE ALARM RISER NOTES AND DETAILS

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 3 of 22

E-011.00

DOB NO:

PANEL 'MDP' (BY LANDLORD)

Location: Electrical Room | A.I.C. RATING: 65,000A | 480/277 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 800A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
RTU-1 (BY LANDLORD)	9.8	60/3	1	(E)	X				2	60/3	9.8	RTU-2 (BY LANDLORD)
	9.8					X		(E)			9.8	
	9.8						X				9.8	
RTU-3 (BY LANDLORD)	11.5	70/3	3	(E)	X				4	70/3	11.5	RTU-4 (BY LANDLORD)
	11.5					X		(E)			11.5	
	11.5						X				11.5	
RTU-5 (BY LANDLORD)	4.4	25/3	5	(E)	X				6	125/3	11.0	TRANSFORMER 'T-1'
	4.4					X					10.4	
	4.4						X				8.9	
PANEL 'HP1'	9.8	100/3	7		X				8	150/3	23.7	TRANSFORMER 'T-2'
	6.0					X					24.1	
	5.5						X				22.3	
SPARE			9		X				10			SPARE
						X						
							X					
SPACE					X							SPACE
SPACE						X						SPACE
SPACE							X					SPACE
SPACE					X							SPACE
SPACE						X						SPACE
SPACE							X					SPACE

	A	B	C	
CONNECTED KVA:	262.7	91.5	87.5	83.7	DESIGN DEMAND KVA: 289.3
CONNECTED HIGH PHASE AMPS:	762.5				DESIGN DEMAND AMPS: 348.1

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE.
B - PROVIDE HACR BREAKER FOR NEW ROOF MOUNTED HVAC EQUIPMENT.
(E) = EXISTING BREAKER TO REMAIN.
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL LP1

Location: Electrical Room | A.I.C. RATING: 10,000A | 208/120 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 125A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
TRACK LIGHTING	0.9	20/1	1		X				2	20/1	1.0	TRACK LIGHTING
TRACK LIGHTING	0.9	20/1	3			X			4	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	1.0	20/1	5				X		6	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	7		X				8	20/1	0.9	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	9			X			10	20/1	0.8	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	11				X		12	20/1	0.9	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	13		X				14	20/1	0.8	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	15			X			16	20/1	0.9	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	17				X		18	20/1	1.0	TRACK LIGHTING
SPARE		20/1	19		X				20	20/1	0.9	TRACK LIGHTING
SPARE		20/1	21			X			22	20/1		SPARE
SPARE		20/1	23				X		24	20/1		SPARE
SPARE		20/1	25		X				26	20/1		SPARE
SPARE		20/1	27			X			28	20/1		SPARE
SPARE		20/1	29				X		30	20/1		SPARE

	A	B	C	
CONNECTED KVA:	14.8	5.7	4.4	4.7	DESIGN DEMAND KVA: 18.5
CONNECTED HIGH PHASE AMPS:	47.5				DESIGN DEMAND AMPS: 51.4

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

SPECIAL REQUIREMENTS:
CONTROLLED VIA 125A INTEGRAL CA CONTACTOR

PANEL LP2

Location: Electrical Room | A.I.C. RATING: 10,000A | 208/120 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 200A

	Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
	SALES RECEPTS	0.6	20/1	1		X				2	20/1	0.8	CASHWRAP RECEPTACLE	
	SALES RECEPTS	0.6	20/1	3			X			4	20/1	0.8	CASHWRAP RECEPTACLE	
	SPARE		20/1	5				X		6	20/1		SPARE	
3	MICROWAVE	1.2	20/1	7		X				8	20/1	1.8	ROLLING GRILLE	
	COUNTER TIMER RECS	0.4	20/1	9			X			10	20/1	1.8	ROLLING GRILLE	
3	MICROWAVE	1.2	20/1	11				X		12	20/1		SPARE	
3	REFRIG	0.8	20/1	13		X				14	20/1	0.6	EMPLOYEE LOUNGE GEN. RECS.	
C2	FLOOR REC - STORE DIRECTORIES	0.2	20/1	15			X			16	20/1		SPARE	
C4	SHOW WINDOW RECEPTACLES	0.8	20/1	17				X		18	20/1	1.0	STEAMER RECEPTACLE	
C4	SHOW WINDOW RECEPTACLES	1.0	20/1	19		X				20	20/1	1.0	STEAMER RECEPTACLE	
C4	SHOW WINDOW RECEPTACLES	0.8	20/1	21			X			22	20/1	0.6	RR/JAN CLOSET REC	
	SPARE		20/1	23				X		24	20/1	0.8	EWC	
	REPEATER RECEPTACLE	0.2	20/1	25		X				26	20/1		SPARE	
C1	SOLENOID VALVE	0.1	20/1	27			X			28	20/1	0.6	MANAGER OFFICE REC	
	FUTURE EMS METER	0.5	20/1	29				X		30	20/1	1.0	BOH CONVENIENCE RECS	
C1	STOCKROOM - FLOOR REC	0.2	20/1	31		X				32	20/1	0.6	BOH CONVENIENCE RECS	
	SPARE		20/1	33			X			34	20/1	1.5	HAND DRYER (LADIES)	
	SPARE		20/1	35				X		36	20/1	1.5	HAND DRYER (MEN'S)	
C1	EWH-1	1.3	20/2	37		X				38		4.8	ISOLATED TRANSFORMER	
		1.2		39			X		A	40	60/3	4.6		
	E. STAT PANEL RECEPT	0.2	20/1	41				X		42		4.3		
C4	SHOW WINDOW RECEPTACLES	0.8	20/1	43		X				44	20/1		SPARE	
C4	SHOW WINDOW RECEPTACLES	0.6	20/1	45			X			46	20/1	0.5	CONTACTOR 'CA' & 'CB'	5
C4	SHOW WINDOW RECEPTACLES	0.6	20/1	47				X		48	20/1	0.2	LIGHTSTAT MAIN	5
C4	SHOW WINDOW RECEPTACLES	0.8	20/1	49		X				50	20/1	0.1	CONTACTOR PANEL	
	SPARE		20/1	51			X			52	20/1		SPARE	
	SPARE		20/1	53				X		54	20/1		SPARE	
	SPARE		20/1	55		X				56	20/1		SPARE	
	SPARE		20/1	57			X			58	20/1		SPARE	
	SPARE		20/1	59				X		60	20/1		SPARE	

	A	B	C	
CONNECTED KVA:	43.0	16.6	14.3	12.1	DESIGN DEMAND KVA: 43.0
CONNECTED HIGH PHASE AMPS:	138.3				DESIGN DEMAND AMPS: 119.5

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL 'HP1'

Location: Electrical Room | A.I.C. RATING: 22,000A | 480/277 Volt, 3ø, 4w
Mounting: Surface | Main: MLO 225A

	Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
5 C1	CLEANING LIGHTING	2.4	20/1	1		X				2	20/1	2.5	SALES LIGHTING	C2 5
5 C1	CLEANING LIGHTING	1.3	20/1	3			X			4	20/1	1.4	SALES LIGHTING	C2 5
5 C1	CLEANING LIGHTING	1.0	20/1	5				X		6	20/1	1.0	SALES LIGHTING	C2 5
	SPARE		20/1	7		X				8	20/1	2.9	SALES LIGHTING	C2
5	BOH LIGHTING	0.9	20/1	9			X			10	20/1	2.4	SALES LIGHTING	C2
5	BOH LIGHTING	1.3	20/1	11				X		12	20/1	1.8	SALES LIGHTING	C2
5	BOH LIGHTING	1.6	20/1	13		X				14	20/1		SPARE	
	SPARE		20/1	15			X			16	20/1		SPARE	
C1	FITTING ROOM LIGHTING	0.4	20/1	17				X		18	20/1		SPARE	
C2	FITTING ROOM LIGHTING	0.4	20/1	19		X				20	20/1		SPARE	
	SPARE		20/1	21			X			22	20/1		SPARE	
	SPARE		20/1	23				X		24	20/1		SPARE	
	SPARE		20/1	25		X				26	20/1		SPARE	
	SPARE		20/1	27			X			28	20/1		SPARE	
	SPARE		20/1	29				X		30	20/1		SPARE	
	SPARE		20/1	31						32			SPARE	
	SPARE		20/1	33			X			34			SPACE	
	SPARE		20/1	35				X		36			SPACE	
	SPARE		20/1	37		X				38			SPACE	
	SPARE		20/1	39			X			40			SPACE	
	SPACE			41				X		42			SPACE	

	A	B	C	
CONNECTED KVA:	21.3	9.8	6.0	5.5	DESIGN DEMAND KVA: 26.6
CONNECTED HIGH PHASE AMPS:	81.7				DESIGN DEMAND AMPS: 32.0

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL LP4

Location: Electrical Room | A.I.C. RATING: 10,000A | 208/120 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 125A

Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description
TRACK LIGHTING	1.0	20/1	1		X				2	20/1	0.8	TRACK LIGHTING
TRACK LIGHTING	1.0	20/1	3			X			4	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	5				X		6	20/1	0.8	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	7		X				8	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	9			X			10	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	11				X		12	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	13		X				14	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	0.6	20/1	15			X			16	20/1	1.0	TRACK LIGHTING
TRACK LIGHTING	0.8	20/1	17				X		18	20/1	0.8	TRACK LIGHTING
TRACK LIGHTING	0.5	20/1	19		X				20	20/1	0.6	TRACK LIGHTING
TRACK LIGHTING	1.0	20/1	21			X			22	20/1	0.6	TRACK LIGHTING
SPARE		20/1	23				X		24	20/1		SPARE
SPARE		20/1	25		X				26	20/1		SPARE
SPARE		20/1	27			X			28	20/1		SPARE
SPARE		20/1	29				X		30	20/1		SPARE

	A	B	C	
CONNECTED KVA:	15.5	5.3	6.0	4.2	DESIGN DEMAND KVA: 19.4
CONNECTED HIGH PHASE AMPS:	50.0				DESIGN DEMAND AMPS: 53.8

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

SPECIAL REQUIREMENTS:
CONTROLLED VIA 125A INTEGRAL CB CONTACTOR

PANEL LP3

Location: Electrical Room | A.I.C. RATING: 10,000A | 208/120 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 125A

	Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
	SPARE		20/1	1		X				2	20/1	0.2	DEDICATED STEAMER RECEPTACLE	
	SPARE		20/1	3			X			4	20/1	0.2	DEDICATED STEAMER RECEPTACLE	
	SPARE		20/1	5				X		6	20/1	0.2	DEDICATED STEAMER RECEPTACLE	
	SPARE		20/1	7		X				8	20/1	1.2	STOREFRONT SIGN	C3
C2	MIRROR LIGHTING	0.5	20/1	9			X			10	20/1	1.2	STOREFRONT SIGN	C3
	SPARE		20/1	11				X		12	20/1	1.2	BLADE SIGN	C3
C2	LIGHTBOX 1	0.4	20/1	13		X				14	20/1	0.8	RECHARGABLE FLASHLIGHT	
C4	LIGHTBOX 2	0.5	20/1	15			X			16	20/1	0.8	RECHARGABLE FLASHLIGHT	
C4	LIGHTBOX 3	0.5	20/1	17				X		18	20/1	1.6	SHOW WINDOW TRACK	C4
C4	LIGHTBOX 4	0.5	20/1	19		X				20	20/1	1.1	SHOW WINDOW TRACK	C4
C4	LIGHTBOX 5	0.5	20/1	21			X			22	20/1	1.1	SHOW WINDOW TRACK	C4
C4	LIGHTBOX 6	0.5	20/1	23				X		24	20/1	1.2	SHOW WINDOW TRACK	C4
C4	LIGHTBOX 7	0.5	20/1	25		X				26	20/1	1.3	SHOW WINDOW TRACK	C4
C2	LIGHTBOX 8	0.2	20/1	27			X			28	20/1	1.8	SHOW WINDOW TRACK	C4
C2	LIGHTBOX 9	0.2	20/1	29				X		30	20/1	1.2	SHOW WINDOW TRACK	C4
2 C1	EF-1	0.7	20/1	31		X				32	20/1	0.2	LIGHTBOX 10	C2
2	EF-2, VVT-1	1.3	20/1	33			X			34	20/1	1.2	BLADE SIGN	C3
2	EF-3	1.2	20/1	35				X		36	20/1	1.2	STOREFRONT SIGN	e3
2	VVT-2, VVT-3	0.2	20/1	37		X				38	20/1		SPARE	
C2	NAVIGATIONAL SIGNS	0.5	20/1	39			X			40	20/1		SPARE	
	HVAC CONV. RECS	1.2	20/1	41				X		42	20/1		SPARE	

	A	B	C	
CONNECTED KVA:	27.1	7.1	9.8	10.2	DESIGN DEMAND KVA: 33.0
CONNECTED HIGH PHASE AMPS:	85.0				DESIGN DEMAND AMPS: 91.7

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL LIGA

Location: Electrical Room | A.I.C. RATING: 10,000A | 208/120 Volt, 3ø, 4w
Mounting: Surface | Main: MCB 60A

	Circuit Description	KVA	CB	NO.	NOTE	A	B	C	NOTE	NO.	CB	KVA	Circuit Description	
	HOL. IG CASH WRAP	0.4	20/1	1		X				2	20/1	0.6	IG CASHWRAP REC	
	HOL. IG CASH WRAP	0.4	20/1	3			X			4	20/1	0.6	IG CASHWRAP REC	
	SPARE		20/1	5				X		6	20/1	0.6	IG CASHWRAP REC	
	SPARE		20/1	7		X				8	20/1	0.6	IG CASHWRAP REC	
	EMPLOYEE TIMECLOCK	0.2	20/1	9			X			10	20/1		SPARE	
	DECO IG REC	0.4	20/1	11				X		12	20/1		SPARE	
	DECO IG REC	0.4	20/1	13		X				14	20/1	0.4	ADMIN OFFICE IG	
	TRAFFIC COUNTER	0.4	20/1	15			X			16	20/1	0.4	ADMIN OFFICE IG	
	CUBE SYSTEM	0.4	20/1	17				X		18	20/1	0.4	ADMIN OFFICE IG	
	TV REC	1.0	20/1	19		X				20	20/1	0.4	ADMIN OFFICE DOOR IG	
5	SECURITY REC	0.4	20/1	21			X			22	20/1	~~0.4~~	~~MANAGER OFFICE IG~~	
	SPARE		20/1	23				X		24	20/1		SPARE	
	SPARE		20/1	25		X				26	20/1	~~0.4~~	~~SECURITY MONITOR~~	3
	SOUND SYSTEM	0.4	20/1	27			X			28	20/1	0.4	DATA RACK	5
	SOUND SYSTEM	0.4	20/1	29				X		30	20/1	0.4	DATA RACK	5
5	EAS SYSTEM	0.2	20/1	31		X				32	20/1		SPARE	
5	EAS SYSTEM	0.2	20/1	33			X			34	20/1	0.4	AUDIO RECEPTACLES	
5	PEOPLE VIEWER	0.4	20/1	35				X		36	20/1	0.5	F.A.C.P.	6
5	PEOPLE VIEWER	0.4	20/1	37		X				38	20/1		SPARE	
5	PEOPLE VIEWER	0.4	20/1	39			X			40	20/1		SPARE	
5	PEOPLE VIEWER	0.4	20/1	41				X		42	20/1	0.4	AUDIO RECEPTACLES	

	A	B	C	
CONNECTED KVA:	13.7	4.8	4.6	4.3	DESIGN DEMAND KVA: 13.7
CONNECTED HIGH PHASE AMPS:	40.0				DESIGN DEMAND AMPS: 38.1

PANEL NOTES:
BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

SPECIAL REQUIREMENTS:
INSULATED/ISOLATED GROUND BAR, 200% NEUTRAL
FEED THRU LUGS FOR TVSS UNIT

PANELBOARD NOTES

1. "1" INDICATES BREAKER SHALL BE "SWD" RATED.
2. "2" INDICATES BREAKER SHALL BE "HACR" RATED.
3. "3" INDICATES BREAKER SHALL BE 5 mA "G.F.I." TYPE.
4. "4" INDICATES BREAKER SHALL BE "H.I.D." RATED.
5. "5" INDICATES BREAKER TO HAVE LOCK-ON CLIP.
6. "6" INDICATES BREAKER TO HAVE LOCK-ON CLIP AND RED MARKING.
7. "7" INDICATES BREAKERS TO HAVE 2-POLE HANDLE TIE.
8. ALL BREAKERS SHALL BE 20A/1P, UNLESS NOTED OTHERWISE.
9. "TC-1", "CII" INDICATES DESIGNATION ZONE OR TIME CLOCK CONTROLLING CIRCUIT. SEE LIGHTING CONTROL SCHEDULE ON E032 SERIES SHEET.

CONTACTOR SCHEDULE

C1 - WORK CONTACTOR
C2 - SALES CONTACTOR
C3 - SIGN CONTACTOR
C4 - DISPLAY CONTACTOR
C5 - TRACK/COVE CONTACTOR
CA - TRACK CONTACTOR INTEGRAL TO PANEL LP1
CB - TRACK CONTACTOR INTEGRAL TO PANEL LP4

* REFER TO DWG E-032

SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

2	04.01.16	LL/CLIENT COMMENTS
3	04.13.16	FIELD CONDITIONS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

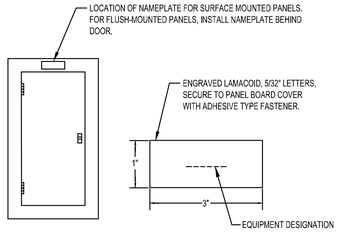
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PANEL SCHEDULES

H&M 2016
US366 - BLUE
APACHE MALL, SPACE 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 4 of 22

E-020.03

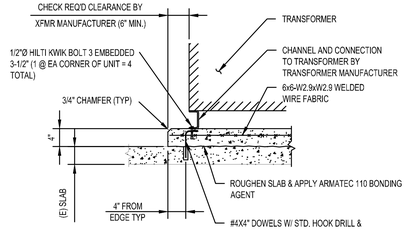
DOB NO:



NOTE:
NAMEPLATES ARE REQUIRED ON ALL SWITCHBOARDS, DISTRIBUTION PANELS, PANEL BOARDS, STARTERS, DISCONNECT SWITCHES, RELAYS AND JUNCTION BOXES GREATER THAN 4 11/16" SQUARE. ALSO PROVIDE NAMEPLATES ON BRANCH SWITCHES OF SWITCHBOARDS AND DISTRIBUTION PANELS.

STANDARD COLORS:
1. NORMAL POWER - BLACK BACKGROUND, WHITE LETTERS
2. EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING
3. IN ADDITION TO THE FUNCTION NAMEPLATE, PROVIDE NAMEPLATES IDENTIFYING ALL "MAIN SERVICE NAMEPLATE DISCONNECTS" - RED BACKGROUND - WHITE LETTERING

NAMEPLATE DETAIL
NO SCALE



1/E030 TRANSFORMER RESTRAINT DETAIL
1/8" = 1'-0"

STORE OPENING DAY REQUIREMENTS

1. ELECTRICAL CONTRACTOR SHALL HAVE AN ELECTRICIAN ON SITE 4 HOURS PRIOR TO OPENING OF THE STORE ON OPENING DAY AND SHALL REMAIN ON SITE THROUGHOUT THE DAY IN ORDER TO TROUBLESHOOT AND CORRECT ANY ELECTRICAL ISSUES THAT MAY ARISE.
2. ELECTRICAL CONTRACTOR SHALL HAVE AN ELECTRICIAN ON SITE 4 HOURS PRIOR TO THE START OF THE PRESS PARTY AND SHALL REMAIN ON SITE THROUGHOUT THE EVENT IN ORDER TO TROUBLESHOOT AND CORRECT ANY ELECTRICAL ISSUES THAT MAY ARISE.
3. ELECTRICAL CONTRACTOR SHALL HAVE AN ELECTRICIAN ON SITE DURING LIGHTSTAT/ESTAT COMMISSIONING. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT LIGHTSTAT AND CONFIRM THE DATE FOR COMMISSIONING. REFER TO SPECIFICATION 16442 ON THE E800 SERIES DRAWINGS FOR CONTACT INFORMATION.

ONE-LINE DIAGRAM NOTES

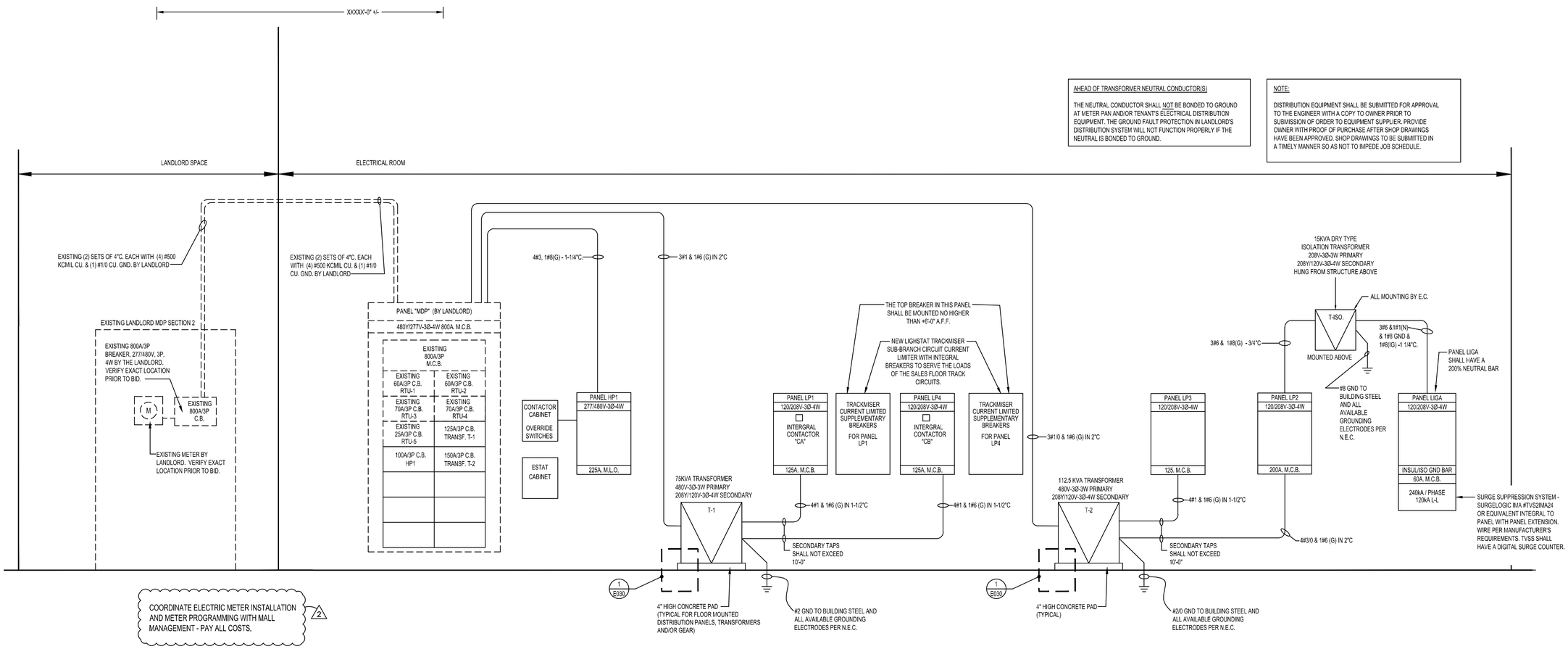
1. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL POWER COMPANY REQUIREMENTS PRIOR TO BIDDING & INCLUDE THE COST OF ALL ASSOCIATED LABOR, MATERIALS, & CHARGES IN HIS BID.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE UTILITY COMPANY PRIOR TO BIDDING AND PROVIDE EQUIPMENT RATED ACCORDINGLY. SUBMIT FAULT CURRENT CALCULATIONS WITH SHOP DRAWING SUBMITTAL.
3. ALL BUSSING SHALL BE COPPER.
4. PROVIDE FULL LENGTH VERTICAL BUSSING IN ALL SWITCHBOARDS, DISTRIBUTION PANELS, & PANELBOARDS.
5. PROVIDE FULL SIZE HORIZONTAL BUSSING IN ALL SWITCHBOARDS.
6. ALL CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.
7. ALL WALL-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 3/4" FIRE RATED BACKBOARD.
8. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE MOUNTED ON 4" HIGH CONCRETE HOUSEKEEPING PAD. PAD SHALL BE PAINTED TO MATCH FLOOR FINISH COLOR.
9. PROVIDE NAMEPLATES PER NAMEPLATE DETAIL.
10. COORDINATE SPACE WITH ALL OTHER TRADES TO MAINTAIN ALL CODE-REQUIRED CLEARANCES.
11. REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
12. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL SETTINGS REQUIRED FOR ALL ADJUSTABLE/ELECTRONIC TYPE CIRCUIT BREAKERS WITH LONGTIME, SHORT TIME, GF, INSTANTANEOUS, ETC. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL COORDINATION STUDY.
13. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH NEC ARTICLE 110.16 FOR LABELING OF PANELS FOR ARC FLASH HAZARD WARNING AS WELL AS FOLLOWING REQUIRED SAFETY PRECAUTIONS WHEN SERVICING OR MAINTAINING ELECTRICAL EQUIPMENT.

AHEAD OF TRANSFORMER NEUTRAL CONDUCTOR(S)

THE NEUTRAL CONDUCTOR SHALL NOT BE BONDED TO GROUND AT METER PAN AND/OR TENANT'S ELECTRICAL DISTRIBUTION EQUIPMENT. THE GROUND FAULT PROTECTION IN LANDLORD'S DISTRIBUTION SYSTEM WILL NOT FUNCTION PROPERLY IF THE NEUTRAL IS BONDED TO GROUND.

NOTE:

DISTRIBUTION EQUIPMENT SHALL BE SUBMITTED FOR APPROVAL TO THE ENGINEER WITH A COPY TO OWNER PRIOR TO SUBMISSION OF ORDER TO EQUIPMENT SUPPLIER. PROVIDE OWNER WITH PROOF OF PURCHASE AFTER SHOP DRAWINGS HAVE BEEN APPROVED. SHOP DRAWINGS TO BE SUBMITTED IN A TIMELY MANNER SO AS NOT TO IMPEDE JOB SCHEDULE.



COORDINATE ELECTRIC METER INSTALLATION AND METER PROGRAMMING WITH MALL MANAGEMENT - PAY ALL COSTS. 2

NOTE:

E.C. SHALL VERIFY ALL ELECTRICAL MATERIALS & EQUIPMENT NOTED AS EXISTING PRIOR TO BID AND START OF CONSTRUCTION.

RISER DIAGRAM
NO SCALE

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

2	04.01.16	LL/CLIENT COMMENTS

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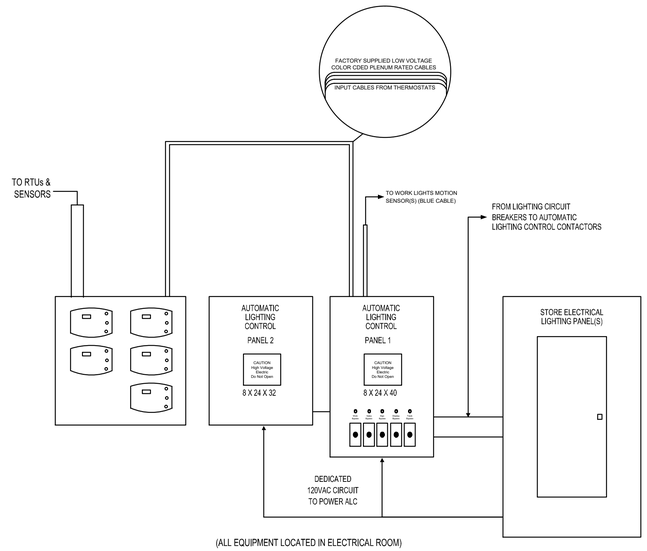
SHEET TITLE:
ELECTRICAL RISER DIAGRAM

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 5 of 22

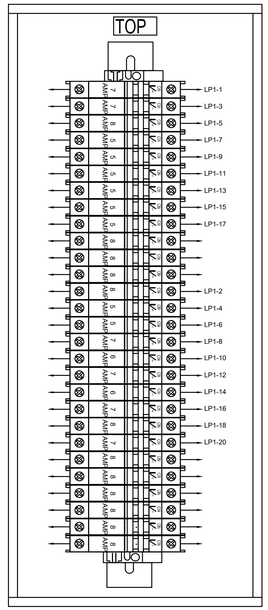
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DOB NO:



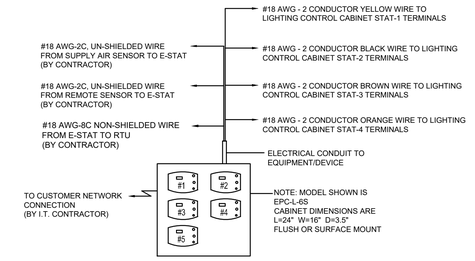
(ALL EQUIPMENT LOCATED IN ELECTRICAL ROOM)

AUTOMATIC LIGHTING CONTROL RISER DIAGRAM

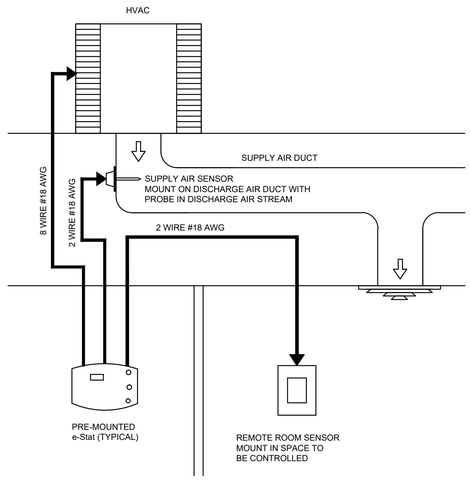


TRACK MISER - PANEL 1 DETAIL

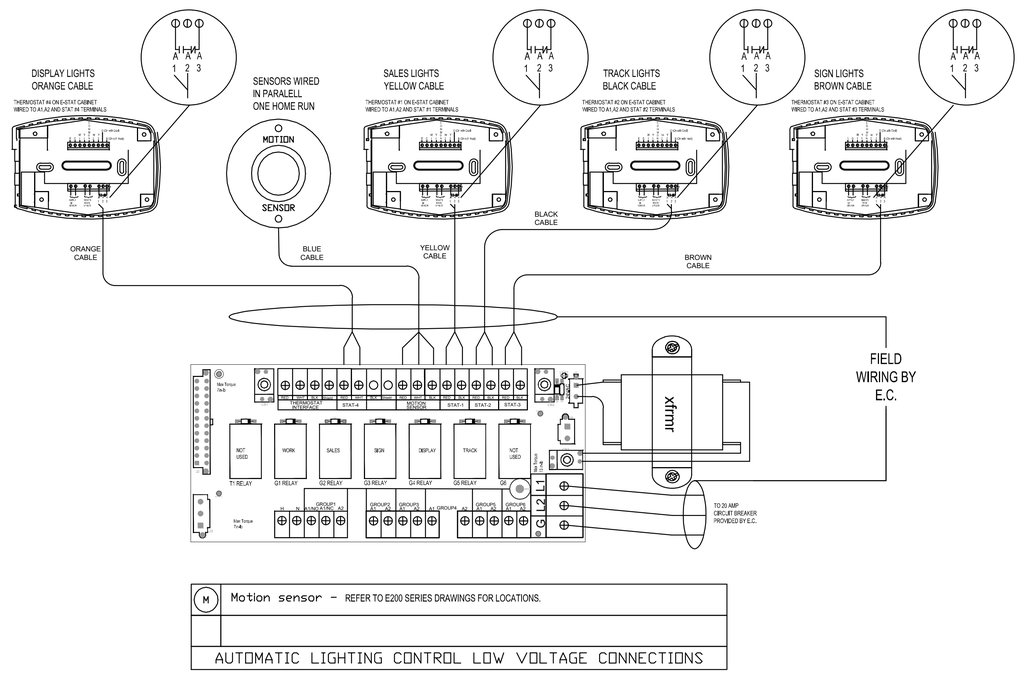
TRACK MISER - PANEL 2 DETAIL



E-STAT PRE MOUNTED CABINET



TYPICAL E-STAT WIRING SCHEMATIC



M Motion sensor – REFER TO E200 SERIES DRAWINGS FOR LOCATIONS.

AUTOMATIC LIGHTING CONTROL LOW VOLTAGE CONNECTIONS

CURRENT LIMITING BREAKER SCHEDULE NOTES:

1. ROUTE ALL SALES TRACK LIGHTING CIRCUITS FROM BREAKER IN PANELS LP1 & LP4 TO NEW BREAKER IN TRACKMISER PANEL, (LAND EACH TRACK CIRCUIT ON THE INPUT SIDE OF THE SUPPLEMENTARY "BREAKER").
2. WIRE FROM THE OUTPUT SIDE OF EACH SUPPLEMENTARY "BREAKER" TO THE TRACK LIGHT FIXTURE.
3. E.C. SHALL PROVIDE QUANTITY OF LIGHSTAT TRACKMISER BREAKERS/PANELS TO ACCOMMODATE ALL TRACK LIGHTING CIRCUITS.
   3.1. TO ORDER CONTACT BESTY RENOUF, SECTION 16442.A.4.a ON E800 SERIES DWG.
4. BREAKERS SHALL LIMIT SALES FLOOR TRACK LIGHTING LOAD TO xxxxxx WATTS MAXIMUM PER LINEAR FOOT.
5. BREAKERS FED FROM CORRESPONDING CIRCUIT NUMBER IN PANEL INDICATED.
6. E.C. SHALL ROUTE BRANCH CIRCUIT NEUTRAL THROUGH THE NEUTRAL BAR PROVIDED WITH THE LIGHSTAT TRACKMISER PANEL.
7. E.C. SHALL BE RESPONSIBLE TO INSTALL QUANTITY OF TRACK HEADS PER THE CURRENT LIMITER INSTALLED PER CIRCUIT.

39 WATT TRACK HEADS:

- 8 AMPS = 16 HEADS PER CIRCUIT
- 7 AMPS = 14 HEADS PER CIRCUIT
- 6 AMPS = 12 HEADS PER CIRCUIT
- 5 AMPS = 10 HEADS PER CIRCUIT
- 4 AMPS = 8 HEADS PER CIRCUIT
- 3 AMPS = 6 HEADS PER CIRCUIT
- 2 AMPS = 4 HEADS PER CIRCUIT
- 1 AMPS = 2 HEADS PER CIRCUIT
- 0.5 AMPS = 1 HEAD PER CIRCUIT

MECHANICAL SPECIFICATIONS:

CONTROLS

FOR ADDITIONAL INFORMATION CONTACT:
LIGHTSTAT, INC.
22 WEST WEST HILL ROAD
BARKHAMSTED, CT 06063

PHONE: 800-292-2444 EXT. 0
860-738-4111 EXT. 0
FAX: 860-738-4123

ELECTRICAL SPECIFICATIONS:

LIGHTSTAT/ESTAT EQUIPMENT/DEVICES

FURNISHED BY H&M, INSTALLED AND WIRED BY E.C.

LIGHTSTAT AUTOMATIC LIGHTING CONTROL

FACTORY SUPPLIED AS A COMPLETE SYSTEM AND INCLUDES THE FOLLOWING COMPONENTS:

LIGHTING CONTROL CONTACTOR PANEL

4 POLE 20 AMP CONTACTORS, MAGNETICALLY HELD, 120 VOLT AC COILS

MOTION SENSOR(S)

6 REMOTE SENSORS PRE CALIBRATED FOR MINIMUM ON OPERATION. UNITS SHALL BE CEILING MOUNTED. BLUE COLOR KEYED LOW VOLTAGE PLENUM RATED CABLE SHALL BE INCLUDED. G.C. SHALL PAINT TRIM TO MATCH CEILING FINISH. MOTION SENSORS ARE WIRED IN SERIES.

SIGNAGE CONTROL

SIGNAGE SHALL BE CONTROLLED VIA TIME CIRCUIT INTEGRAL TO ESTAT. HOURS TO BE SET BY H&M PROJECT MANAGER.

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973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

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Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE : 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:	
03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.:	R15-2133.014
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	BJK/KLS
SCALE:	AS NOTED

SHEET TITLE:

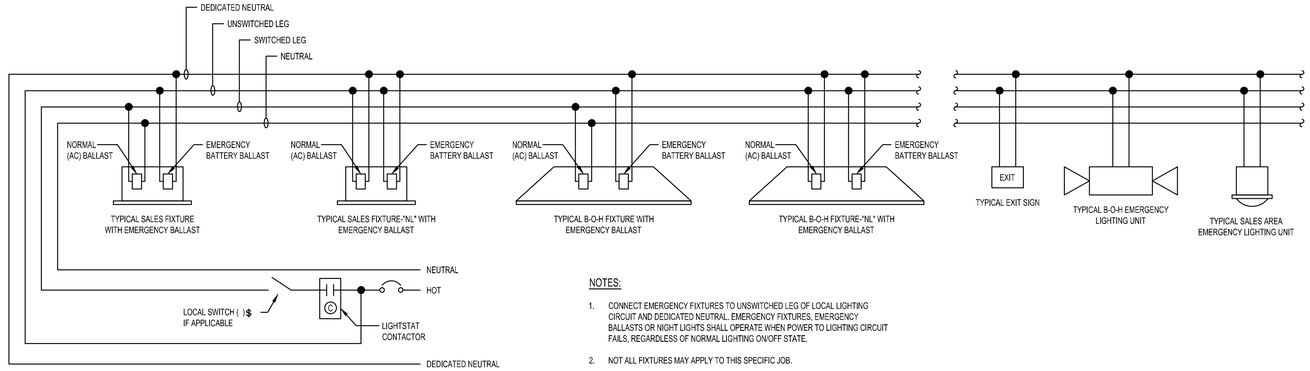
LIGHTSTAT

H&M
2016
US366 - BLUE
APACHE MALL, SPACE. 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 6 of 22

E-031.00

DOB NO:

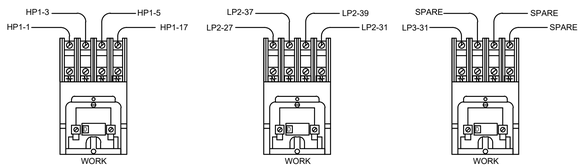


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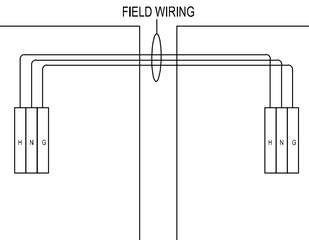
1. CONNECT EMERGENCY FIXTURES TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT AND DEDICATED NEUTRAL. EMERGENCY FIXTURES, EMERGENCY BALLASTS OR NIGHT LIGHTS SHALL OPERATE WHEN POWER TO LIGHTING CIRCUIT FAILS, REGARDLESS OF NORMAL LIGHTING ON/OFF STATE.
2. NOT ALL FIXTURES MAY APPLY TO THIS SPECIFIC JOB.
3. ALL LIGHTING CIRCUITS WILL HAVE A DEDICATED NEUTRAL REGARDLESS IF SHOWN ON PLAN.

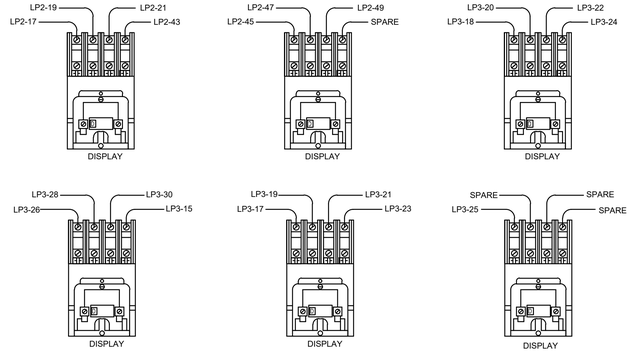
EMERGENCY BALLAST & LIGHTING WIRING DIAGRAM

N.T.S.

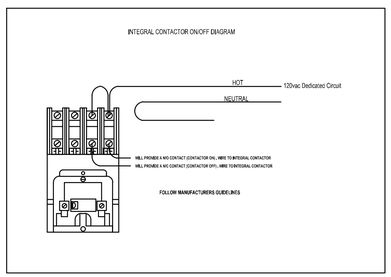


PANEL 1 LIGHTING CONTACTOR SCHEDULE





PANEL 2 LIGHTING CONTACTOR SCHEDULE



NOTE:
1. LINE VOLTAGE CONNECTIONS FROM CIRCUIT BREAKER PANEL TO TOP TERMINALS OF CONTACTORS.
2. CONTROL CIRCUIT LOAD CONNECTIONS TO LIGHTS ON BOTTOM TERMINALS SPARE CONTACTOR POLES WILL ALLOW FOR FUTURE LOADS.
3. SHOW WINDOW AND SIGN ZONES ARE DESIGNED AS "SIGN" CONTACTORS PER LIGHTSTAT.
4. DISPLAY AND TRACK ZONES ARE DESIGNED AS "TRACK" CONTACTORS PER LIGHTSTAT.
5. E.C. SHALL FIELD WIRE EACH CONTACTOR CABINET AS REQUIRED PER MANUFACTURER SPECIFICATIONS.

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DRAWN BY: BJK/KLS
SCALE: AS NOTED

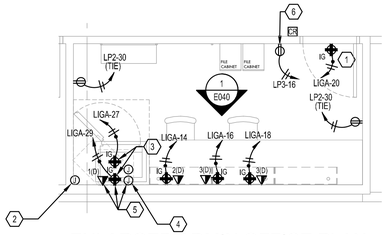
SHEET TITLE:
LIGHTING CONTROLS

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 7 of 22

E-032.00

DOB NO:



ENLARGED ADMIN OFFICE PLAN

NO SCALE

ALSO SEE WALL ELEVATION(S), SHEET E040.

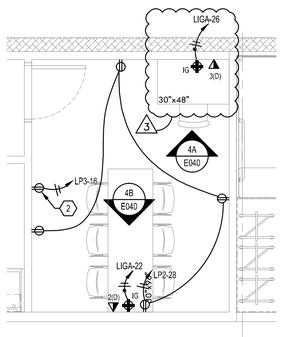
CODED NOTES

1. QUAD I.G. RECESSED IN WALL, CENTERED BETWEEN THE CEILING AND DOOR FRAME FOR POWER TO DOOR LOCK AND WALL MOUNTED SECURITY MONITOR.
2. J-BOX FOR SAFE DOOR CONTACT. MOUNT 6" ABOVE SAFE ALIGNED WITH LATCH SIDE OF DOOR. COORDINATE EXACT SIZE, LOCATION OF LATCH SIDE OF DOOR, AND LOCATION OF SAFE WITH H&M PM.
3. QUAD I.G. RECEPTACLES CENTERED AND EQUALLY SPACED BEHIND RACK FOR SOUND SYSTEM POWER.
4. JUNCTION BOX FOR SPEAKER WIRING. REFER TO ELEVATION ON SHEET E040 FOR MOUNTING HEIGHTS.
5. G.C. TO ENSURE ALL SOUND SYSTEM DEVICES ARE INSTALLED AT A LOCATION ON THE WALL NOTED THAT WILL PERMIT THE RACK TO BE OPENED 90° OFF OF THE WALL.
6. PROVIDE RECEPTACLE AT 40" AFF UNLESS NOTED OTHERWISE, FOR RECHARGEABLE FLASHLIGHT, FURNISHED BY G.C. VERIFY EXACT LOCATION AND INSTALLATION HEIGHT WITH ARCHITECTURAL PLANS.

NOTE:

IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATION OF COUNTERS AND DESKS PRIOR TO ROUGH-IN OF RECEPTACLES. DATA & "I.G."

IF MILLWORK IS PRESENT, RECEPTACLES AND DATA RECEPTACLES TO BE MOUNTED AT +6" ABOVE COUNTER AND/OR DESK.



ENLARGED MANAGER/SECURITY OFFICE PLAN

NO SCALE

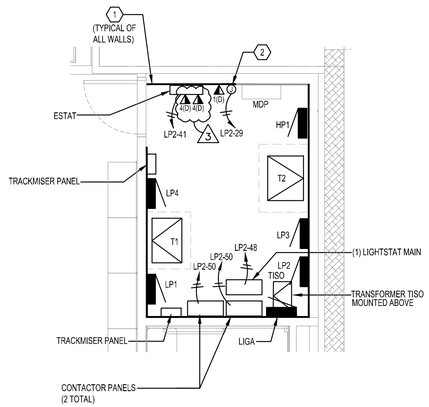
ALSO SEE WALL ELEVATION(S), SHEET E040.

CODED NOTES

1. NOT USED.
2. PROVIDE RECEPTACLE AT 40" AFF UNLESS NOTED OTHERWISE, FOR RECHARGEABLE FLASHLIGHT, FURNISHED BY G.C. VERIFY EXACT LOCATION AND INSTALLATION HEIGHT WITH ARCHITECTURAL PLANS.
3.

NOTE:

ROOM LAYOUT SHOWN FOR BID PURPOSE AND DESIGN INTENT ONLY. E.C. RESPONSIBLE FOR WORKING SPACE, CLEARANCES, AMD TRANSFORMER FEEDER LENGTHS PER N.E.C. AND LOCAL CODE.



ENLARGED ELECTRIC ROOM PLAN

NO SCALE

E.C. SHALL COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS WITH THE MECHANICAL AND PLUMBING TRADES.

CODED NOTES

1. 8'H.x3/4"D. FIRE TREATED PLYWOOD BOARD, STAMP SIDE OUT, ON ENTIRE WALL LENGTH. MOUNT VERTICALLY FROM FINISHED FLOOR TO 8' A.F.F. (TYP OF ALL WALLS) PLYWOOD MAY NEVER BE PAINTED.
2. E.C. SHALL PROVIDE J-BOX AND DEDICATED CIRCUIT FOR POSSIBLE FUTURE ENERGY MANAGEMENT SYSTEM METER.

THE ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO INSURE THAT THE NEW WORK WILL FIT TO THE EXISTING STRUCTURE IN THE MANNER INTENDED AND SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE TENANT'S REPRESENTATIVE PRIOR TO FABRICATION OR PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATED TO THE AREA.

ALL WIRING SHALL BE IN CONDUIT

E.M.T. OR RIGID

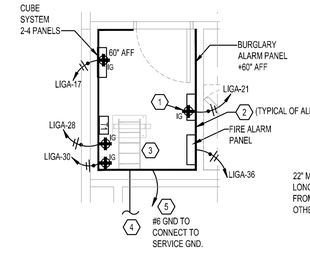
FLEXIBLE CONDUIT MAY ONLY BE USED FOR FINAL CONNECTIONS FROM OUTLET BOXES TO LIGHT FIXTURES, MOTORS, APPLIANCES, ETC., MAX LENGTH 6 FEET.

NO BX, ROMEX, ARMORED CABLE, ETC. ALLOWED.

THIS APPLIES TO ALL ELECTRICAL SYSTEMS, INCLUDING: POWER, LIGHTING, CONTROLS, HVAC, ETC.

DATA AND PHONE SHALL BE IN E.M.T. OR RIGID ONLY.

AUDIO CABLES AND SECURITY CABLES SHALL BE PLENUM RATED AND ARE NOT REQUIRED TO BE IN CONDUIT IN CEILINGS (UNLESS LOCAL CODE REQUIRES). BACK BOXES AND CONDUIT STUBS TO CEILING ARE ALWAYS REQUIRED.



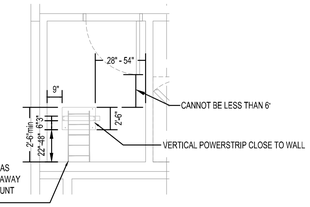
ENLARGED LAN ROOM PLAN

NO SCALE

E.C. SHALL COORDINATE ALL ELECTRICAL EQUIPMENT LOCATIONS WITH THE MECHANICAL AND PLUMBING TRADES.

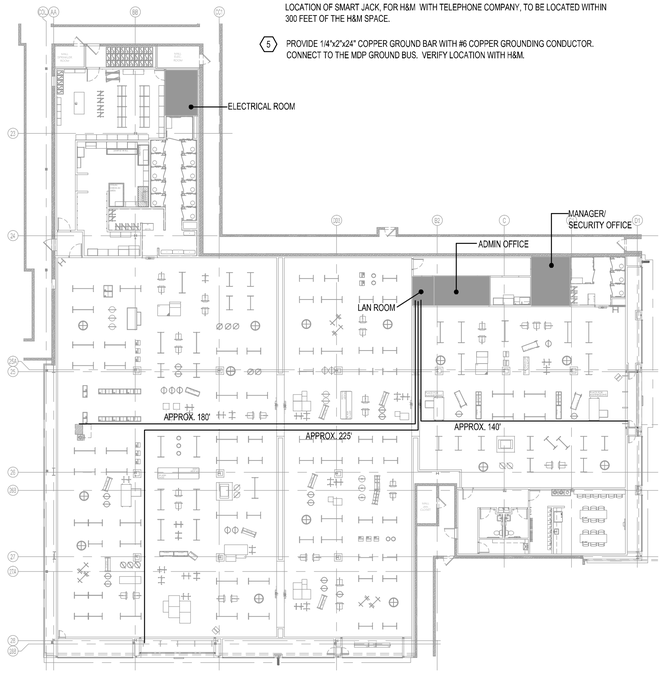
CODED NOTES

1. QUAD I.G. RECEPTACLE AT 60" AFF FOR BURGLARY PANEL.
2. 8'H.x3/4"D. FIRE TREATED PLYWOOD BOARD, STAMP SIDE OUT, ON ENTIRE WALL LENGTH. MOUNT VERTICALLY FROM FINISHED FLOOR TO 8' A.F.F. (TYP OF ALL WALLS) PLYWOOD MAY NEVER BE PAINTED.
3. TWO POST NETWORK LADDER DATA RACK WITH 3" UPRIGHTS. REFER TO SPECIFICATION SECTION 16740.H FOR MORE DETAIL/INFORMATION. RACK BASE SHALL BE LOCATED 6" FROM WALL WITH PLYWOOD BOARD AND 22"-48" FROM ADJACENT WALL DEPENDING ON LENGTH OF ROOM. VERIFY WITH H&M IT PRIOR TO INSTALLATION. (2) QUAD IG OUTLET SHALL BE INSTALLED BY E.C. AT 18" AFF. ONE 6" FROM ADJACENT WALL AND THE OTHER 18" FROM THE ADJACENT WALL.
4. 2"C. W/PULLSTRING BY LANDLORD'S E.C. FOR TELEPHONE SERVICE FROM LANDLORD TELEPHONE CLOSET TO LAN ROOM IN H&M SPACE. LANDLORD TELEPHONE CLOSET OR PANEL MUST BE LOCKED AND HAVE CONTROLLED ACCESS. E.C. SHALL EXTEND AS REQUIRED TO TERMINATE 8'-0"AFF ON LAN RACK SIDE OF ROOM ATTACHED TO A PIECE OF UNISTRUT WITH A BUSHING ON ITS END. VERIFY IN FIELD EXACT LOCATION OF MAIN TELEPHONE BOARD, AS WELL AS ANY INTERMEDIATE BOARD LOCATIONS. TECHNOLOGY CONTRACTOR TO PROVIDE CAT5e RATED 25-PAIR CABLE FROM LANDLORD TELEPHONE CLOSET (APPROX 200'-0" +/-). REFER TO SPECIFICATION SECTION 16740.M.12 FOR MORE INFORMATION. COORDINATE REQUIRED DISTANCE WITH LANDLORD PRIOR TO SUBMITTING BID. E.C. SHALL COORDINATE LOCATION OF SMART JACK, FOR H&M WITH TELEPHONE COMPANY, TO BE LOCATED WITHIN 300 FEET OF THE H&M SPACE.
5. PROVIDE 1/4"x2"x24" COPPER GROUND BAR WITH #6 COPPER GROUNDING CONDUCTOR. CONNECT TO THE MDP GROUND BUS. VERIFY LOCATION WITH H&M.



DIMENSIONED LAN RACK PLAN

NO SCALE



KEY PLAN/SUGGESTED DATA CABLE ROUTING

NO SCALE MAXIMUM ALLOWED CABLE LENGTH OF 290'

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973.253.9393 TEL
973.253.9390 FAX
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PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

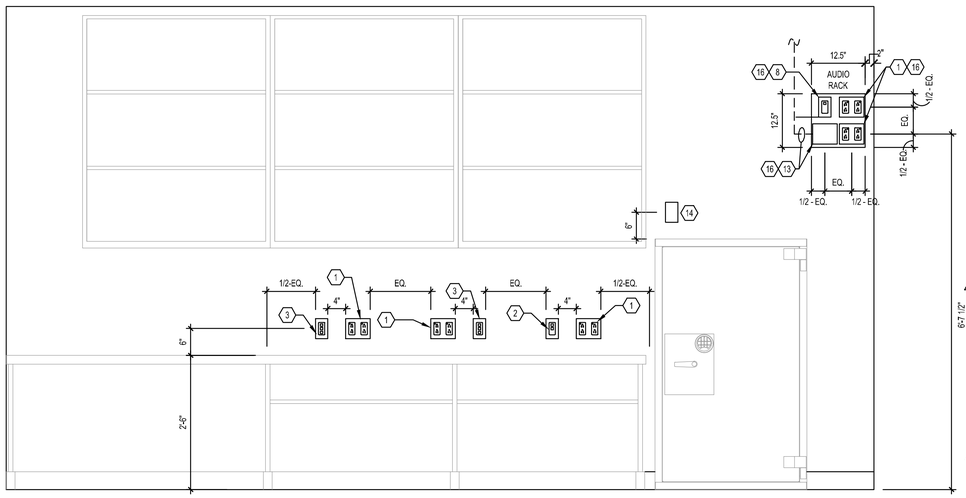
SHEET TITLE:
ENLARGED ELECTRICAL PLANS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 8 of 22

E-033.03

DOB NO:



ELEVATIONS AT ADMIN OFFICE 1

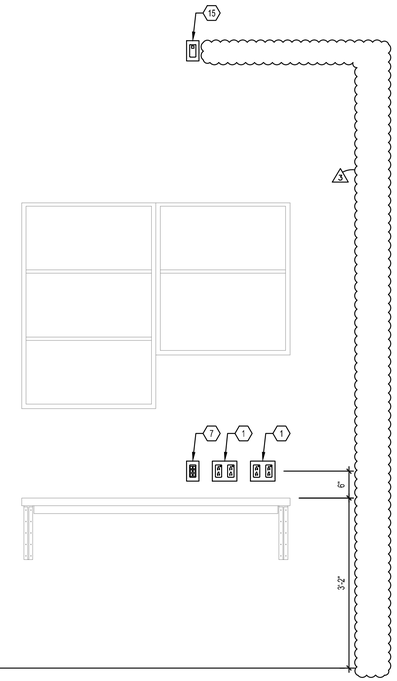
SCALE: 3/4" = 1'-0"

GENERAL NOTES:

1. ALL JACKS ARE ARBITRARILY LABELED AS DATA, AS DATA AND TELEPHONE USE THE SAME JACKS. THE H&M I.T. REPRESENTATIVE SHALL DETERMINE WHICH JACKS ARE FOR DATA AND WHICH ARE FOR PHONE.
2. E.C. SHALL COORDINATE ALL MILLWORK TYPE, HEIGHT AND LOCATION WITH ARCHITECTURAL PRINTS AND FIELD CONDITIONS PRIOR TO ROUGH-IN. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER PRIOR TO ROUGH-IN.

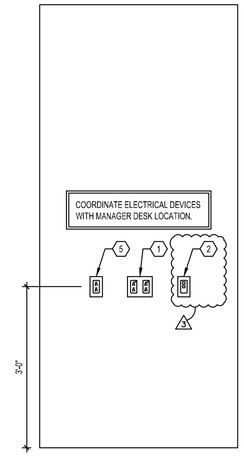
CODED NOTES: ⟨#⟩

1. QUAD I.G. RECEPTACLE ON DEDICATED CIRCUIT. SEE E033 FOR CIRCUIT INFORMATION.
2. (2) TWO DATA RECEPTACLE.
3. (3) THREE DATA RECEPTACLE.
4. GFI-TYPE DUPLEX RECEPTACLE. SEE E400 SERIES DRAWINGS FOR CIRCUIT INFORMATION.
5. DUPLEX RECEPTACLE. SEE E033 AND/OR E400 SERIES DRAWINGS FOR CIRCUIT INFORMATION.
6. NOT USED.
7. (6) SIX DATA RECEPTACLE.
8. (1) ONE DATA RECEPTACLE.
9. GFI PROTECTED DUPLEX RECEPTACLE. PROVIDE A GFI BREAKER IN ELECTRICAL PANEL. SEE E400 SERIES DRAWINGS FOR CIRCUIT INFORMATION.
10. NOT USED.
11. NOT USED.
12. NOT USED.
13. JUNCTION BOX FOR SPEAKER WIRING. E.C. TO PROVIDE (1) RECESSED 4" SQUARE, 4" DEEP DOUBLE GANG JUNCTION BOX (GARVIN #52191-1 OR EQUIVALENT) AND DOUBLE GANG MUD RING (LEVITON 80409-W FACEPLATE) WITH (3) 1" CONDUIT STUBS TO CEILING FOR SPEAKER WIRING. CONDUIT SHALL TERMINATE AT THE LEFT SIDE OF THE JUNCTION BOX TO ALLOW ROOM FOR DATA BACK BOX LOCATED ABOVE.
14. J-BOX FOR SAFE DOOR CONTACT. MOUNT 6" ABOVE SAFE ALIGNED WITH LATCH SIDE OF DOOR. COORDINATE EXACT SIZE, LOCATION OF LATCH SIDE OF DOOR, AND LOCATION OF SAFE WITH H&M PM.
15. DATA OUTLET WITH ONE (1) CAT 6 CABLE 6" BELOW CEILING AND CENTERED ON COLUMN OR WALL SECTION FOR WIRELESS NETWORK NODE. VERIFY EXACT LOCATION WITH H&M IT PRIOR TO ROUGH-IN.
16. G.C. TO ENSURE ALL SOUND SYSTEM DEVICES ARE INSTALLED AT A LOCATION ON THE WALL NOTED THAT WILL PERMIT THE RACK TO BE OPENED 90° OFF OF THE WALL.
17. TIMER (FD15MWC) FOR RECEPTACLES.



ELEVATION AT DECO DESK 2

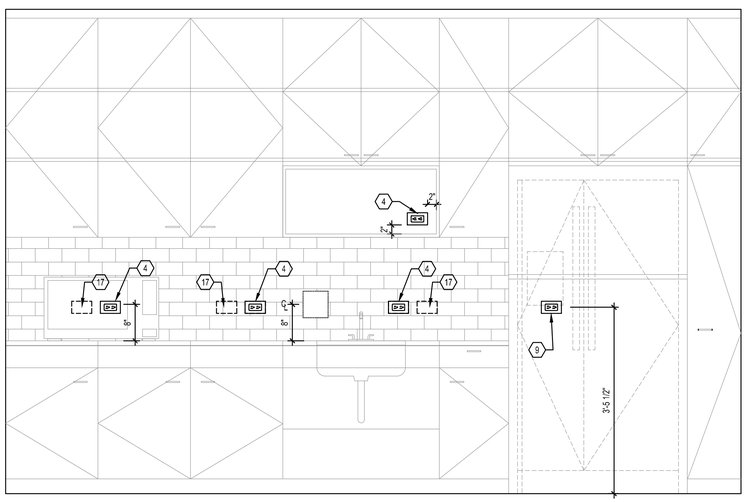
SCALE: 3/4" = 1'-0"



ELEV. AT MAN./SEC. OFFICE 4B

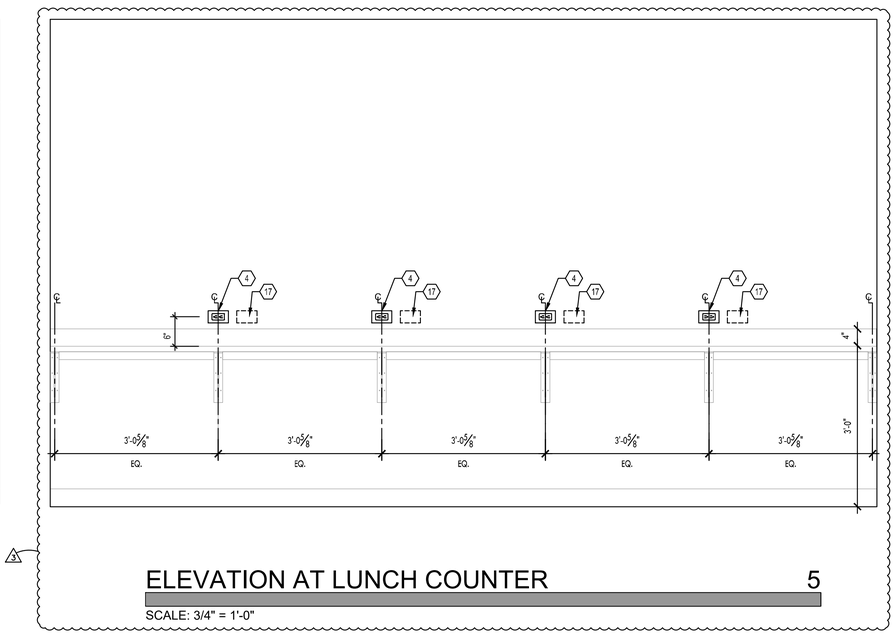
SCALE: 3/4" = 1'-0"

(MAN. / SEC.)



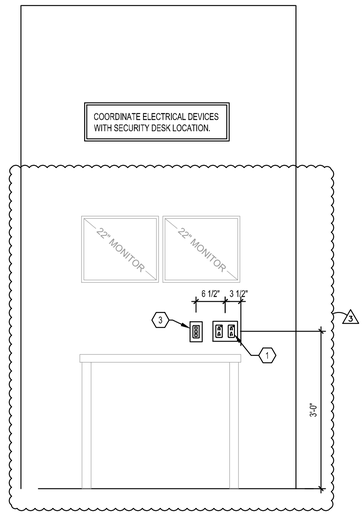
ELEVATION AT LOUNGE 3

SCALE: 3/4" = 1'-0"



ELEVATION AT LUNCH COUNTER 5

SCALE: 3/4" = 1'-0"



ELEV. AT MAN./SEC. OFFICE 4A

SCALE: 3/4" = 1'-0"

(MAN. / SEC.)

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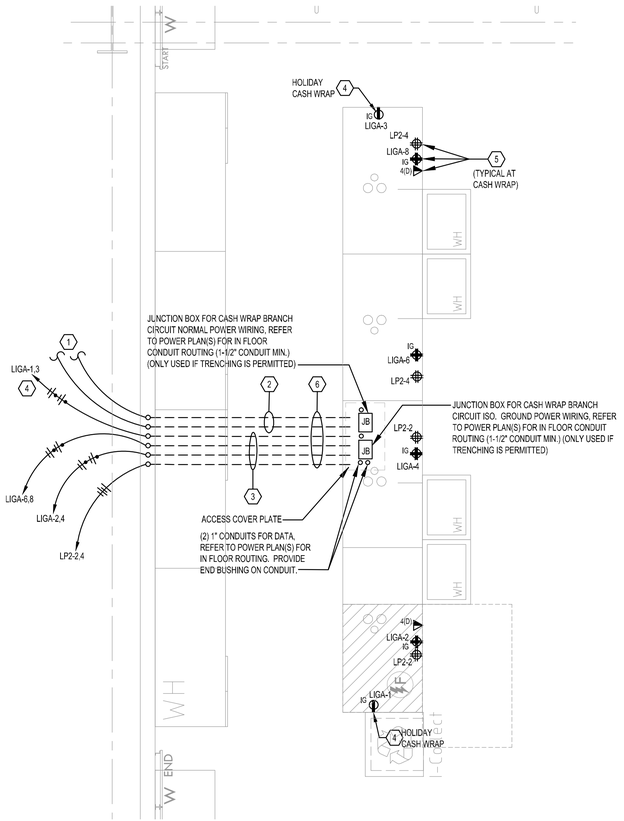
SHEET TITLE:
BACK OF HOUSE ELEVATIONS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 9 of 22

E-040.03

DOB NO:

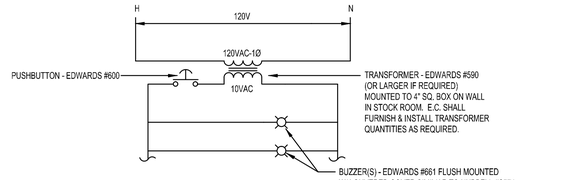


1 ENLARGED CASHWRAP PLAN

1/4" = 1'-0"

CODED NOTES: (#)

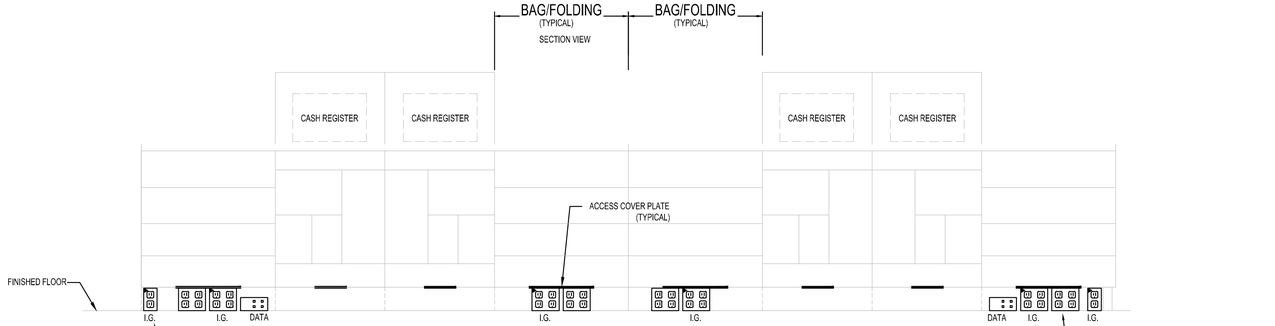
1. PROVIDE (2) 1" CONDUITS WITH PULL WIRE FROM CASHWRAP BACK TO LAN ROOM FOR DATA CABLE. . COORDINATE EXACT REQUIREMENT WITH H&M IT AND ARCHITECT. (3)
2. PROVIDE TELECOMMUNICATIONS CONDUIT WITHIN FLOOR OR WITHIN ACCESSIBLE CEILING OF FLOOR BELOW, BETWEEN CASHWRAP, AND NEAREST WALL. METHOD OF CORE DRILLING, TRENCHING, ETC. SHALL BE PER BUILDING REQUIREMENTS. CONDUIT SIZE SHALL BE (2) 1" CONDUITS.
3. PROVIDE POWER CONDUIT WITHIN FLOOR OR WITHIN ACCESSIBLE CEILING OF FLOOR BELOW, BETWEEN CASHWRAP, AND NEAREST WALL. METHOD OF CORE DRILLING, TRENCHING, ETC. SHALL BE PER BUILDING REQUIREMENTS. CONTRACTOR SHALL SIZE CONDUIT PER NEC.
4. DEDICATED CIRCUIT(S) FOR HOLIDAY ROLL-AWAY CASHWRAPS. E.C. SHALL INSTALL RECEPTACLES FOR ALL ROLL-AWAY CASHWRAPS. RECEPTACLES TO BE LOCATED AT CONVENIENT LOCATION FOR ADDITIONAL CASHWRAPS. VERIFY LOCATION WITH H&M.
5. CONTRACTOR SHALL INSTALL IG RECEPTACLE AND TELE/DATA DEVICE CLOSEST TO REGISTER PORTION OF THE CASH DESK (TYPICAL OF ALL CASH REGISTERS). COORDINATE FINAL LOCATION WITH H&M IT PRIOR TO COMMENCEMENT.
6. CONDUIT STUB-UP LOCATION AT CASHWRAP MUST BE AT MILLWORK SECTION INDICATED. CANNOT STUB-UP AT CASH REGISTER BAYS.



SALES DOORBELL WIRING DIAGRAM

NO SCALE

NOTE: ALL LOW VOLTAGE WIRING TO BE #14AWG.



BACK VIEW (4 REGISTER)

NO SCALE

GENERAL NOTES:

1. REFER TO DRAWING E410 AND E420 FOR QUANTITY AND LOCATIONS OF ALL POWER AND DATA DEVICES.
2. ALL JACKS ARE ARBITRARILY LABELED AS DATA, AS DATA AND TELEPHONE USE THE SAME JACKS. THE H&M I.T. REPRESENTATIVE SHALL DETERMINE WHICH JACKS ARE FOR DATA AND WHICH ARE FOR TELEPHONES (TYPICAL).
3. ALL FLOOR CONDUIT PENETRATIONS SHALL BE FIRE RATED OR FIRE STOPPED AS REQUIRED BY THE LOCAL JURISDICTION AND/OR LANDLORD.
4. PROVIDE HUBBELL SS309B BLANK FACEPLATES FOR UNUSED PEDESTAL COMPARTMENTS.
5. ALL DATA, CONVENIENCE & I.G. RECEPTACLES SHALL BE INSTALLED IN LOCATIONS SHOWN. CONVENIENCE & I.G. RECEPTACLE CIRCUITS SHALL BE IN CONDUIT & DATA CABLING SHALL BE RAN WITHOUT CONDUIT BELOW CASHWRAP ONLY. ALL HOMERUNS (DATA, CONVENIENCE & I.G.) SHALL BE IN E.M.T.
6. "B" DESIGNATES AREA OF CASHWRAP IN WHICH POKE-THROUGH OR J-BOXES SHALL BE LOCATED.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 - Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

3	04.13.16	FIELD CONDITIONS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

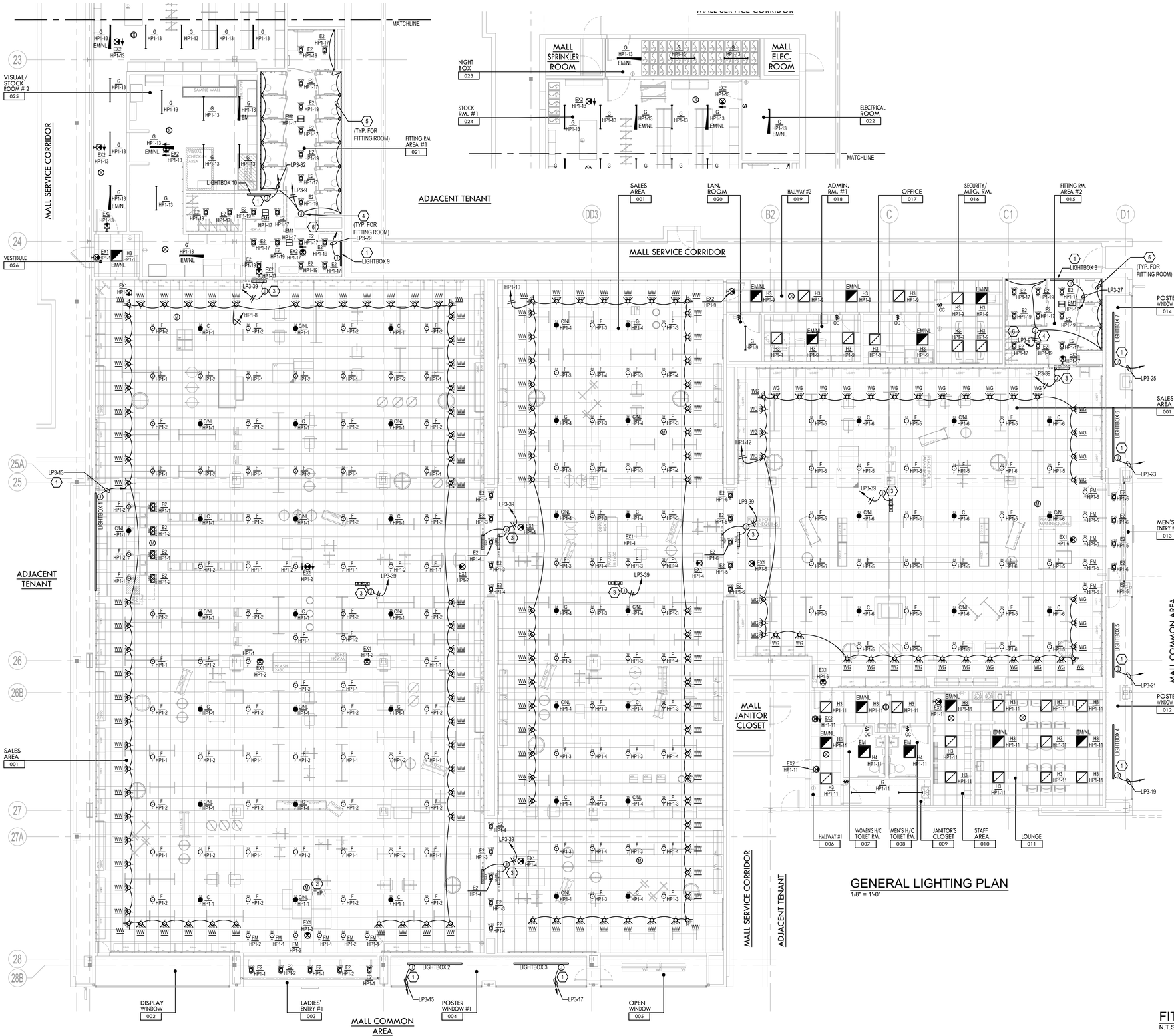
SHEET TITLE:
CASHWRAP ELEVATIONS AND DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 10 of 22

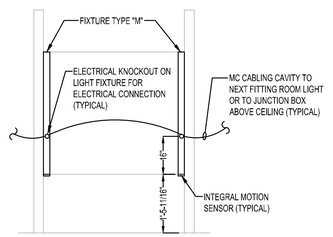
E-041.03

DOB NO:



GENERAL LIGHTING PLAN
1/8" = 1'-0"

FITTING ROOM MIRROR LIGHT DETAIL
N.T.S.



GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ■ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. REFER TO DRAWING E-032.00 FOR SCHEDULES AND DETAILS OF THE LIGHTING CIRCUITS CONTROLLED BY LIGHTING CONTROL SYSTEM (LIGHTSTAT).
3. ONLY THE NORMAL BALLAST OF THE "C" FIXTURES SHALL BE CONTROLLED VIA THE LIGHTING CONTROL SYSTEM (LIGHTSTAT). EMERGENCY BALLASTS, EMERGENCY LIGHTS AND EXIT SIGN BATTERIES IN THE SALES AREA SHALL BE WIRED AHEAD OF ALL LOCAL SWITCHING, LIGHTING CONTROLS AND CONTACTORS, AND SHALL BE WIRED TO A DEDICATED NEUTRAL. REFER TO PANEL SCHEDULES ON DWG. E-020 AND EMERGENCY BALLAST AND LIGHTING WIRING DIAGRAM ON THE E-032 DRAWING.
4. ALL TYPE "H" & "G" EMERGENCY BALLASTS, AND EXIT SIGN BATTERIES IN THE BACK-OF-HOUSE SHALL BE WIRED AHEAD OF ALL LOCAL SWITCHING AND LIGHTING CONTROLS.
5. ALL NIGHT LIGHTS (NL) SHALL BE WIRED AHEAD OF ALL LOCAL SWITCHING, LIGHTING CONTROLS AND CONTACTORS, AND SHALL BE WIRED TO A DEDICATED NEUTRAL (BOTH NORMAL AND EMERGENCY BALLASTS).
6. HALF-SHADED NON-SALES LIGHTING FIXTURES OR FIXTURES LABELED AS "EM" SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BALLAST. SHADED SALES LIGHTING FIXTURES ARE PROVIDED WITH AN EMERGENCY BALLAST.
7. COORDINATE LIGHT FIXTURE LOCATION WITH HVAC EQUIPMENT, DUCTS AND DIFFUSERS. LIGHT FIXTURES LOCATIONS SHALL SUPERSEDE HVAC EQUIPMENT, DUCT OR DIFFUSER LOCATIONS. PLEASE NOTIFY THE ENGINEER OF ANY EXISTING CONDITIONS THAT AFFECT NEW LIGHT FIXTURE LOCATIONS.
8. ALL LIGHT FIXTURES IN OPEN CEILING AREAS SHALL BE SUPPORTED WITH UNISTRUT.

MC CABLE:

THE USE OF 'MC' TYPE CABLE IS PERMITTED WHEN ALLOWED BY NATIONAL AND LOCAL CODES. INSTALLATION MUST ADHERE TO ALL CODE REQUIREMENTS.

'MC' TYPE CABLE MAY ONLY BE INSTALLED IN "CONCEALED" AREAS. VISIBLE 'MC' CABLE IS NOT ACCEPTABLE. THIS INCLUDES ALL CONDUCTORS TO/FROM PANEL BOARDS. ALL CONDUCTORS TO/FROM PANEL BOARDS SHALL BE INSTALLED IN EMT UNTIL ABOVE THE FINISHED CEILING.

CODED NOTES: ⟨#⟩

1. E.C. SHALL INSTALL THE LIGHT BOX PER THE HOW-TO-BUILD CATALOGUES. E.C. SHALL INSTALL A JUNCTION BOX BEHIND THE POWER SUPPLY ACCESS HOLE. SEE BELOW FOR FIXTURE COUNTS AT LIGHT BOX. ALL WIRING, AND CONNECTOR CABLES SHALL BE CONCEALED. NO J-BOX SHALL BE INSTALLED WITHIN THE LIGHT BOX ENCLOSURE. E.C. SHALL INSTALL ALL LAMPS AS REQUIRED.

   LIGHT BOX 1 - H1200 (400W)
   ART. NO. 153247-01
   LENGTH: LED
   TOTAL SECTIONS: (4) SECTIONS

   LIGHT BOX 2,3,4,5,6,7 - H2200 (480W)
   ART. NO. 153252-01
   LENGTH: LED
   TOTAL SECTIONS: (2) SECTIONS

   LIGHT BOX 8,9,10 - H1800 (160W)
   ART. NO. 153251-01
   LENGTH: LED
   TOTAL SECTIONS: (1) SECTION

2. LIGHTSTAT MOTION SENSOR. REFER TO E-031.00 FOR MORE DETAILS (TYPICAL).
3. FURNISH AND INSTALL J-BOX ABOVE CEILING FOR CONNECTION TO INTERIOR NAVIGATIONAL SIGNS IN SALES AREA. COORDINATE WITH H&M FOR THE LOCATION, MOUNTING HEIGHT AND QUANTITY OF SIGN(S) AND FURNISH AND INSTALL ALL POWER, CONDUIT, WIRING, SWITCHES INTERCONNECTIONS ETC., AS REQUIRED. PROVIDE 30" M.C. CABLE WHIPS FOR WALL MOUNTED SIGNAGE. LIT NAVIGATION SIGNS FURNISHED BY H&M AND INSTALLED BY E.C.
4. E.C. SHALL FURNISH AND INSTALL A JUNCTION BOX ABOVE CEILING (NOT ABOVE FITTING ROOM STALL) AND PROVIDE MC CABLE FROM JUNCTION BOX TO MIRROR LIGHTING (TYPICAL). VERIFY MIRROR LOCATIONS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN. VERIFY WIRING REQUIREMENTS AND EXACT MOUNTING HEIGHT WITH FITTING ROOM MIRROR INSTALLER.
5. E.C. SHALL RUN MC CONDUIT ABOVE CEILING TO WALL, AND THEN IN WALL FROM MIRROR LIGHT TO MIRROR LIGHT (FIXTURE TYPE "M"). MC CONDUIT SHALL BE RUN CONTINUOUS FROM "M" FIXTURE TO "M" FIXTURE WITHOUT INTERRUPTION BETWEEN LIGHT FIXTURES. SEE FITTING ROOM MIRROR LIGHT DETAIL FOR MORE INFORMATION (TYPICAL).
6. ACCESS PANEL IN CEILING, OR IF LAY-IN CEILING. LOCATION FOR ACCESS TO ELECTRICAL EQUIPMENT BY G.C. COORDINATE WITH G.C. FOR THE FURNISHING AND INSTALLING OF ACCESS PANEL, IF APPLICABLE.

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461 FROM ROAD
PARAMUS, NJ 07652
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973.253.9390 FAX
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PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:	
03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

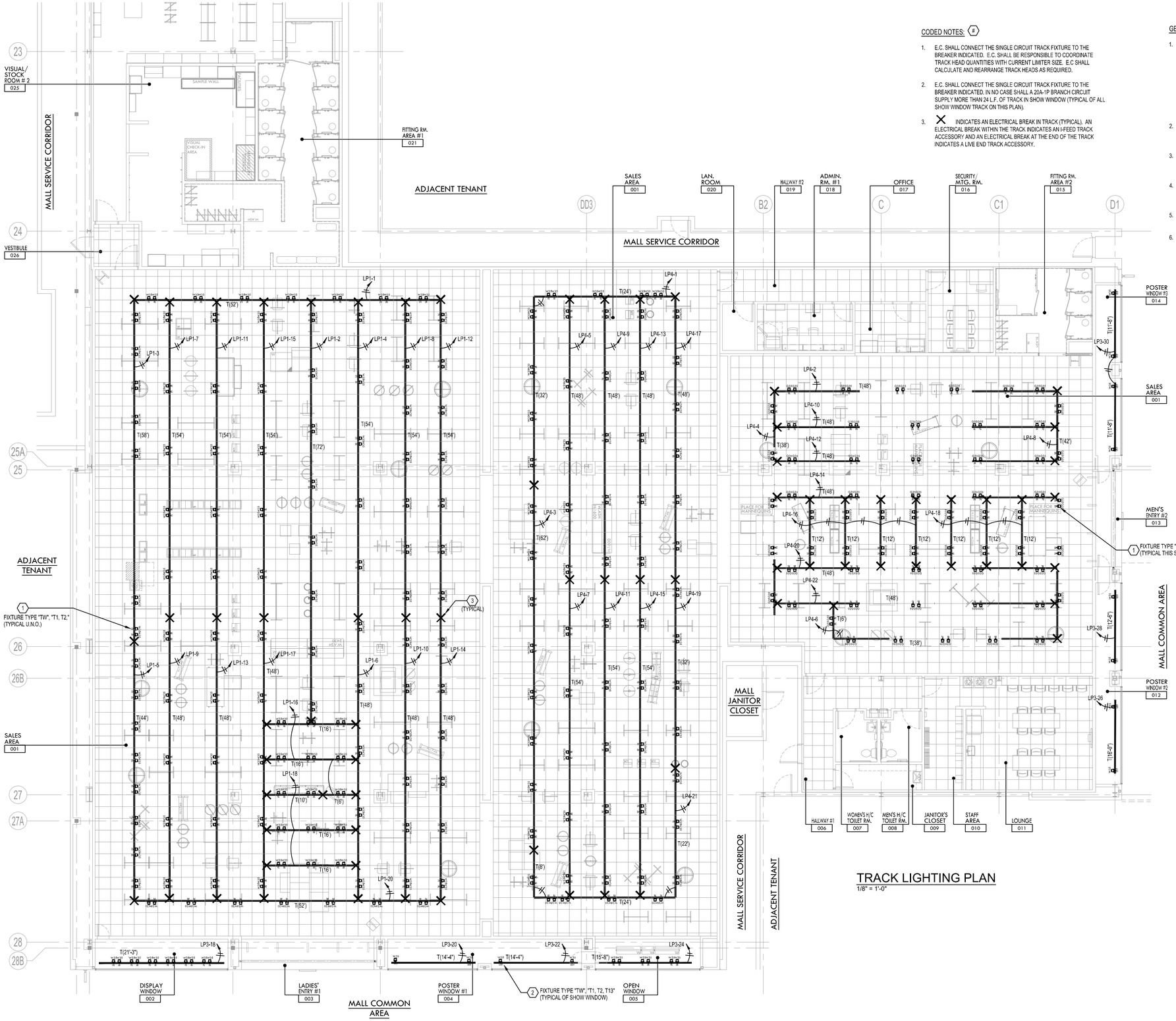
SHEET TITLE:
GENERAL LIGHTING PLAN

H&M 2016
US366 - BLUE
APACHE MALL, SPACE 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 11 of 22

E-210.00

DOB NO:



TRACK LIGHTING PLAN
1/8" = 1'-0"

CODED NOTES: (#)

1. E.C. SHALL CONNECT THE SINGLE CIRCUIT TRACK FIXTURE TO THE BREAKER INDICATED. E.C. SHALL BE RESPONSIBLE TO COORDINATE TRACK HEAD QUANTITIES WITH CURRENT LIMITER SIZE. E.C SHALL CALCULATE AND REARRANGE TRACK HEADS AS REQUIRED.
2. E.C. SHALL CONNECT THE SINGLE CIRCUIT TRACK FIXTURE TO THE BREAKER INDICATED. IN NO CASE SHALL A 20A-1P BRANCH CIRCUIT SUPPLY MORE THAN 24 L.F. OF TRACK IN SHOW WINDOW (TYPICAL OF ALL SHOW WINDOW TRACK ON THIS PLAN).
3. X INDICATES AN ELECTRICAL BREAK IN TRACK (TYPICAL). AN ELECTRICAL BREAK WITHIN THE TRACK INDICATES AN I-FEED TRACK ACCESSORY AND AN ELECTRICAL BREAK AT THE END OF THE TRACK INDICATES A LIVE END TRACK ACCESSORY.

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN. WITH THE FOLLOWING SHADING TYPE ■ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. REFER TO DRAWING E-032 FOR SCHEDULES AND DETAILS OF THE LIGHTING CIRCUITS CONTROLLED BY LIGHTING CONTROL SYSTEM (LIGHTSTAT).
3. E.C. SHALL VERIFY ALL COVES ARE STRAIGHT AND PRODUCE A UNIFORM CUT-OFF EDGE FOR A STRAIGHT LINE OF LIGHT ON WALL (TYPICAL FOR ALL COVE LIGHTING).
4. E.C. SHALL CENTER OVERALL DIMENSION OF ALL LIGHTS INSTALLED IN COVE. COVE LIGHTING SHALL NOT BE INSTALLED WITHIN 6" OF OUTSIDE EDGE OF COVE.
5. ALL TRACK SHALL BREAK AT EXPANSION JOINTS REGARDLESS IF SHOWN ON THIS PLAN.
6. TRACK LIVE ENDS ARE TO BE USED AS END CAPS AND LIVE ENDS, EXCEPT WHEN AN I-FEED CONNECTOR IS USED. I-FEED CONNECTORS ARE TO BE USED WHEN AN ELECTRICAL BREAK OCCURS WITHIN THE TRACK.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
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HEI PROJECT NO.:	R15-2133.014
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DRAWN BY:	BJK/KLS
SCALE:	AS NOTED

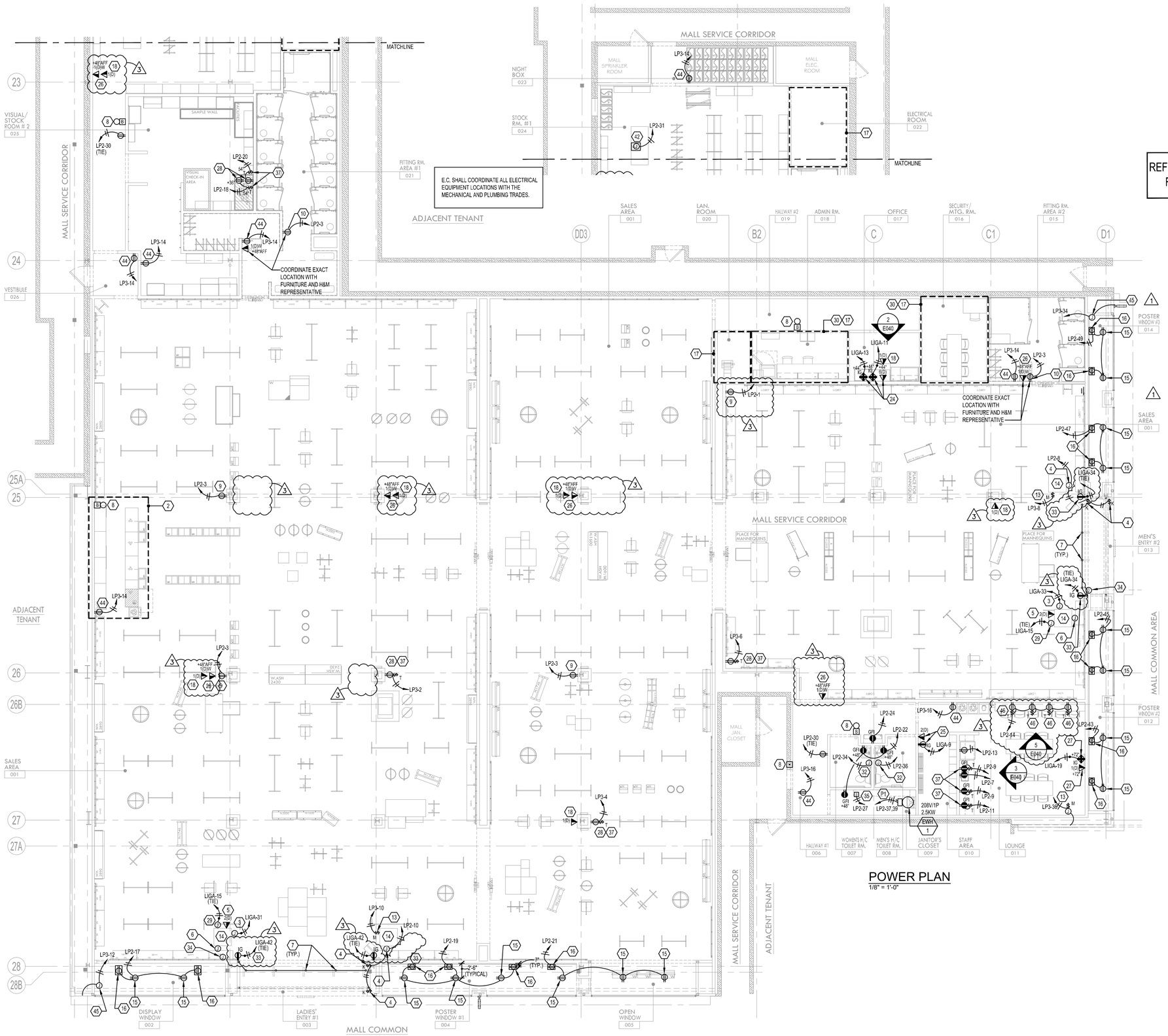
SHEET TITLE:
TRACK LIGHTING PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 12 of 22

E-310.00

DOB NO:



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

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SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

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REVISION:

1	03.21.16	LL/CLIENT COMMENTS
2	04.13.16	FIELD CONDITIONS

ISSUE DATE:

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04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

SHEET TITLE:
POWER PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 13 of 22

E-410.03

DOB NO:

CODED NOTES: (#)

1. NOT USED.
2. REFER TO TYPICAL CASH WRAP ELEVATION AND ENLARGED PLAN ON DWG. E-041.
3. J-BOX MOUNTED ABOVE THE CEILING FOR POWER TO FUTURE EAS EQUIPMENT. COORDINATE CONNECTION WITH EAS REPRESENTATIVE.
4. J-BOX MOUNTED ABOVE THE CEILING FOR POWER TO ROLLING GRILLE. (2) KEY SWITCHES MOUNTED HORIZONTALLY 12" A.F.F. LOCATE (1) ON EACH SIDE OF ROLLING GRILLE. VERIFY LOCATION WITH ARCHITECTURAL PLANS.
5. DATA OUTLET WITH (2) CAT 6 CABLES ABOVE THE IN CEILING. TERMINATE CONDUIT TO A 4" JUNCTION BOX WITH SINGLE GANG PLASTER RING, MOUNTED TO A G.C. SUPPLIED FIRE RATED PLYWOOD BACKBAORD ADJACENT TO THE EAS POWER.
6. J-BOX AND 3/4"C ABOVE THE CEILING FOR EAS. ROUTE 3/4" CONDUIT FROM EACH STOREFRONT TO THE NEXT STOREFRONT.
7. EAS PEDESTAL ANTENNAS. E.C. SHALL CORE DRILL FOR POWER TO EACH PEDESTAL. PROVIDE (1) 1" PVC CONDUIT FOR TRENCHES OR (1) 1" SMURF TUBE CONDUIT FOR PLENUM SPACE, WITH PULLSTRING FROM PEDESTAL TO PEDESTAL AND FROM THE LAST PEDESTAL TO A FULL HEIGHT WALL AND STUB INTO AN ACCESSIBLE CEILING SPACE WITH E.M.T. CONDUIT FOR FUTURE EAS CABLES (BY EAS), TYPICAL. THE E.C. SHALL COORDINATE WITH H&M AND EAS FOR EXACT LOCATIONS AND REQUIREMENTS FOR EAS EQUIPMENT ROUGH-IN. PEDESTALS SHALL BE DAISY CHAINED TOGETHER.
8. DOORBELL SYSTEM. REFER TO WIRING DIAGRAM ON DWG. E-041.
9. MOUNT RECEPTACLE HORIZONTAL AND CENTERED ON COLUMN AT 9" A.F.F. COORDINATE LOCATION IN BASE OF COLUMN WITH MIRROR INSTALLATION. INSTALL ON NON-MIRRORED SURFACE. VERIFY LOCATION WITH H&M PROJECT MANAGER.
10. MOUNT RECEPTACLE IN FITTING ROOM CORRIDOR AT 12" A.F.F.
11. NOT USED.
12. NOT USED.
13. FURNISH AND INSTALL A LOCKABLE 20A, SPST TOGGLE SWITCH FOR SIGNAGE POWER ABOVE THE CEILING. COORDINATE WITH H&M FOR THE LOCATION, MOUNTING HEIGHT AND QUANTITY OF SIGN(S) AND FURNISH AND INSTALL ALL POWER, CONDUIT, WIRING, SWITCHES INTERCONNECTIONS ETC., AS REQUIRED. PROVIDE CONTROL OF SIGNAGE AS INDICATED ELSEWHERE ON CONSTRUCTION DOCUMENTS. E.C. SHALL INCLUDE IN BID A DISTANCE OF 25' FOR INTERCONNECTIONS U.O.N. SIGN CIRCUITS MUST BE LOCATED ON OPPOSITE SIDE OF STORE FRONT THAN THE EAS CIRCUIT. DRIVERS FOR SIGNAGE SHALL NOT BE LOCATED DIRECTLY ABOVE EAS PEDESTALS, ANTENNAS, MATS, AND/OR WIRING. WIRING ON THE LINE/LOAD SIDE OF THE SIGNAGE DRIVER SHALL NOT COME INTO CONTACT WITH THE STOREFRONT FRAMING OR ROLLING GRILLE.
14. ACCESS PANEL IN CEILING, OR IF LAY-IN CEILING, LOCATION FOR ACCESS TO ELECTRICAL EQUIPMENT BY G.C. COORDINATE WITH G.C. FOR THE FURNISHING AND INSTALLING OF ACCESS PANEL, IF APPLICABLE.
15. DUPLEX OUTLET FLUSH MOUNTED PARALLEL WITH THE GLASS AND TRACK FIXTURE IN CEILING AT DISPLAY WINDOW. RECEPTACLE TO BE MOUNTED CENTERED IN BETWEEN THE TRACK FIXTURE AND GLASS.
16. DUPLEX RECEPTACLE SHALL BE FLUSH MOUNTED TO FACE OF PLATFORM. IF FACE OF PLATFORM IS NOT AVAILABLE OR THERE IS NO PLATFORM, RECEPTACLE SHALL BE MOUNTED HORIZONTALLY AT 6" ABOVE FINISHED SURFACE. IF PEDESTAL LIGHTBOX IS IN THE POSTER WINDOW, FLOOR RECEPTACLE TO BE PLACED BEHIND THE LIGHTBOX AND CENTERED BETWEEN THE WALL AND THE LIGHTBOX.
17. REFER TO ENLARGED PLAN OF THIS AREA ON DRAWING E-033.
18. DATA OUTLET WITH ONE (1) CAT 6 CABLE 6" BELOW CEILING AND CENTERED ON COLUMN OR WALL SECTION FOR WIRELESS NETWORK NODE. VERIFY EXACT LOCATION WITH H&M IT PRIOR TO ROUGH-IN. IF NO CEILING EXISTS MOUNT AT 11'-6" AFF. 3
19. NOT USED.
20. NOT USED.
21. NOT USED.
22. NOT USED.
23. NOT USED.
24. (2) QUAD I.G. RECEPTACLES AND (6) DATA RECEPTACLE AT 44" A.F.F. FOR DECO DESK. VERIFY EXACT LOCATION WITH H&M PROJECT MANAGER PRIOR TO ROUGH-IN.
25. DUPLEX OUTLET AND (2) DATA JACK FOR EMPLOYEE TIME CLOCK MOUNTED AT 36" A.F.F. VERIFY EXACT LOCATION WITH H&M REPRESENTATIVE ON SITE PRIOR TO ROUGH-IN.
26. DATA OUTLET WITH ONE (1) CAT 6 CABLE 48" ABOVE FINISHED FLOOR AND CENTERED ON COLUMN OR WALL SECTION FOR DEPARTMENT PHONE. VERIFY EXACT LOCATION WITH H&M IT PRIOR TO ROUGH-IN.
27. QUAD IG RECEPTACLE AND (1) DATA RECEPTACLE FOR FUTURE FLAT SCREEN TV MOUNTED AT 72" AFF. E.C. SHALL VERIFY EXACT LOCATION WITH H&M PROJECT MANAGER PRIOR TO ROUGH-IN.
28. E.C. SHALL PROVIDE A RED FACEPLATE WITH WHITE LETTERS SAYING "ONLY USE THESE OUTLETS FOR IRONS AND STEAMERS".
29. E.C. SHALL PROVIDE A J-BOX FOR GSM WIRELESS TRAFFIC COUNTING DEVICE.
30. REFER TO ELEVATIONS OF THIS AREA ON DRAWING E-040.
31. NOT USED.
32. J-BOX FOR HAND DRYER, MOUNT AT 48"AFF. PROVIDE RECEPTACLE AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
33. RECEPTACLE FOR AUDIO EQUIPMENT. COORDINATE EXACT LOCATION WITH AUDIO VENDOR AND DRAWINGS. MOUNT RECEPTACLE AT +12"AFF, VERTICALLY.
34. E.C. TO PROVIDE DOUBLE GANG BOX WITH SINGLE GANG MUD RING AT 5" A.F.F. MOUNTED HORIZONTALLY WITH 3/4" CONDUIT STUB TO 6" ABOVE CEILING FOR NEDAP SECURITY SWITCH. COORDINATE EXACT LOCATION WITH SECURITY VENDOR PRIOR TO ROUGH-IN.
35. A NORMALLY OPEN SOLENOID VALVE AT DOMESTIC WATER SUPPLY AFTER THE WATER METER. SOLENOID VALVE TO BE ACTIVATED BY A SIGNAL FROM THE LIGHTSTAT PANEL. VALVE TO BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR. REFER TO MECHANICAL PLAN FOR FURTHER INFORMATION.
36. NOT USED.
37. TIMERS TIED INTO RECEPTACLES AS SHOWN FOR CONTROL. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER. COORDINATE EXACT LOCATION WITH ARCHITECT AND H&M PROJECT MANAGER PRIOR TO ROUGH-IN. PROVIDE LABEL INDICATING "OUTLET CONTROLLED VIA WALL TIMER" FOR ALL RECEPTACLES CONTROLLED BY TIMER.
38. NOT USED.
39. NOT USED.
40. NOT USED.
41. NOT USED.
42. E.C. SHALL PROVIDE A JUNCTION BOX IN THE FLOOR FOR WORK POINT TABLE AND INSTALL A FLOOR BOX RECEPTACLE. COORDINATE EXACT LOCATION WITH H&M REPRESENTATIVE.
43. NOT USED.
44. PROVIDE RECEPTACLE FOR RECHARGEABLE FLASHLIGHT (DORCY 41-1032). RECEPTACLE SHALL BE MOUNTED VERTICALLY WITH THE GROUND CONDUCTOR PLUG ON THE BOTTOM. VERIFY EXACT LOCATION AND INSTALLATION HEIGHT WITH ARCHITECTURAL PLANS.
45. E.C. FURNISH AND INSTALL J-BOX FOR CONNECTION TO ILLUMINATED BLADE SIGNS AT STOREFRONT. COORDINATE WITH H&M FOR THE LOCATION, MOUNTING HEIGHT AND QUANTITY OF SIGN(S) AND FURNISH AND INSTALL ALL POWER, CONDUIT, WIRING, SWITCHES INTERCONNECTIONS ETC., AS REQUIRED.
46. RECEPTACLES AND TIMERS TO BE MOUNTED AT 6" ABOVE THE COUNTER. REFER TO ELEVATION ON SHEET E040.00 FOR ADDITIONAL INFORMATION. 3

PLUMBING CODED NOTES: (P#)

1. EWH-1; 2.5KW, 208V-1Ø ELECTRIC WATER HEATER- PROVIDE A 20A/2P, 208V, NEMA 1 MOTOR RATED SWITCH AT THE UNIT. ROUTE 2#12, 1#12(G)-3/4"C. FROM A 20A/2P BREAKER AT THE PANEL INDICATED TO THE SWITCH.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
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REVISION:

3	04.13.16	FIELD CONDITIONS

ISSUE DATE:

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HEI PROJECT NO.:	R15-2133.014
PRODUCT SEASON:	2016
SPACE NO.:	305
DRAWN BY:	BJK/KLS
SCALE:	AS NOTED

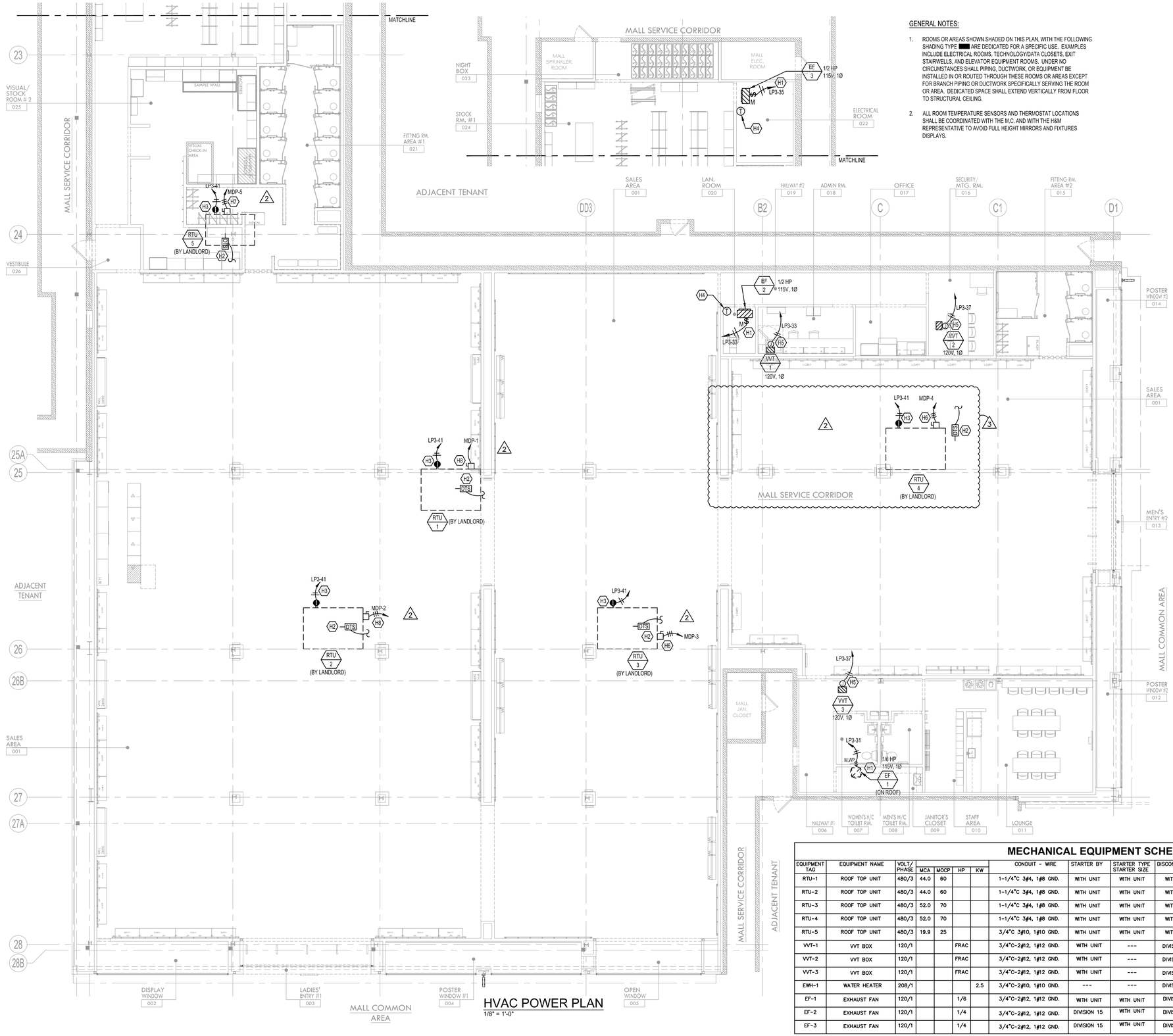
SHEET TITLE:
POWER PLAN
CODED NOTES

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 14 of 22

E-411.03

DOB NO:



HVAC POWER PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▩ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. ALL ROOM TEMPERATURE SENSORS AND THERMOSTAT LOCATIONS SHALL BE COORDINATED WITH THE M.C. AND WITH THE H&M REPRESENTATIVE TO AVOID FULL HEIGHT MIRRORS AND FIXTURES DISPLAYS.

HVAC CODED NOTES: (H#)

D.E. = DUAL ELEMENT TYPE FUSES

1. PROVIDE A 120V, NEMA 1, 20A/1P MOTOR RATED DISCONNECT SWITCH AT THE UNIT (NEMA 3R FOR EF-1). PROVIDE 2#12, 1#12(G) - 3/4"C. FROM A 20A/1P CIRCUIT BREAKER AT PANEL INDICATED TO THE DISCONNECT SWITCH FOR EF-1,2,3.
2. E.C. SHALL PROVIDE CONDUIT AND WIRE FROM DUCT TEMPERATURE SENSOR TO ESTAT IN ELECTRIC ROOM. REFER TO MECHANICAL PLANS FOR FINAL LOCATIONS AND NUMBER OF DEVICES.
3. EXISTING GFI TYPE RECEPTACLE IN AN IN-USE HEAVY DUTY TYPE WEATHERPROOF ENCLOSURE AT THE UNIT. TENANT'S E.C. TO ROUTE 2#12, 1#12(G) - 3/4"C. AND MAKE FINAL CONNECTION TO PANEL INDICATED ON THE PLAN. (2)
4. REVERSE ACTING LINE VOLTAGE THERMOSTAT TO CONTROL EXHAUST FAN. THERMOSTAT TO BE FURNISHED BY M.C., WIRED AND INSTALLED BY E.C. THERMOSTAT TO BE MOUNTED 48"-60" A.F.F. COORDINATE WITH M.C.
5. PROVIDE A JUNCTION BOX MOUNTED TO THE STRUCTURAL CEILING FOR PRIMARY POWER WIRING TO A "VVT" TRANSFORMER. COORDINATE EXACT ROUGH-IN LOCATIONS WITH THE MECHANICAL CONTRACTOR. BRANCH TO EACH "VVT" TRANSFORMER PRIMARY SIDE VIA LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT. "VVT" TRANSFORMER AND SECONDARY WIRING SHALL BE PROVIDED BY OTHERS. ROUTE 2#10, 1#10(G)-3/4"C. TO PANEL INDICATE FOR VVT-1, VVT-2, VVT-3.
6. EXISTING 480V, NEMA 3R, 100A/3P NON-FUSED DISCONNECT SWITCH AT UNIT.
7. EXISTING 480V, NEMA 3R, 30A/3P NON-FUSED DISCONNECT SWITCH AT UNIT.
8. EXISTING 480V, NEMA 3R, 60A/3P NON-FUSED DISCONNECT SWITCH AT UNIT.

MECHANICAL EQUIPMENT SCHEDULE

EQUIPMENT TAG	EQUIPMENT NAME	VOLT/ PHASE	MCA	MOCP	HP	KW	CONDUIT - WIRE	STARTER BY	STARTER TYPE STARTER SIZE	DISCONNECT BY	DISC. SWITCH	FUSE SIZE	PANEL	CIRCUIT NUMBER	REMARKS
RTU-1	ROOF TOP UNIT	480/3	44.0	60			1-1/4"C 3#4, 1#8 GND.	WITH UNIT	WITH UNIT	WITH UNIT	WITH UNIT	--	MDP	1	CONNECTION TO MDP BY LANDLORD
RTU-2	ROOF TOP UNIT	480/3	44.0	60			1-1/4"C 3#4, 1#8 GND.	WITH UNIT	WITH UNIT	WITH UNIT	WITH UNIT	--	MDP	2	CONNECTION TO MDP BY LANDLORD
RTU-3	ROOF TOP UNIT	480/3	52.0	70			1-1/4"C 3#4, 1#8 GND.	WITH UNIT	WITH UNIT	WITH UNIT	WITH UNIT	--	MDP	3	CONNECTION TO MDP BY LANDLORD
RTU-4	ROOF TOP UNIT	480/3	52.0	70			1-1/4"C 3#4, 1#8 GND.	WITH UNIT	WITH UNIT	WITH UNIT	WITH UNIT	--	MDP	4	(2) CONNECTION TO MDP BY LANDLORD
RTU-5	ROOF TOP UNIT	480/3	19.9	25			3/4"C 3#10, 1#10 GND.	WITH UNIT	WITH UNIT	WITH UNIT	WITH UNIT	--	MDP	5	CONNECTION TO MDP BY LANDLORD
VVT-1	VVT BOX	120/1			FRAC		3/4"C-2#12, 1#12 GND.	WITH UNIT	---	DIVISION 16	--		LP3	33	
VVT-2	VVT BOX	120/1			FRAC		3/4"C-2#12, 1#12 GND.	WITH UNIT	---	DIVISION 16	--		LP3	37	
VVT-3	VVT BOX	120/1			FRAC		3/4"C-2#12, 1#12 GND.	WITH UNIT	---	DIVISION 16	--		LP3	37	
EWH-1	WATER HEATER	208/1				2.5	3/4"C-2#10, 1#10 GND.	---	---	DIVISION 16	30A/2P	--	LP2	37,39	
EF-1	EXHAUST FAN	120/1			1/6		3/4"C-2#12, 1#12 GND.	WITH UNIT	WITH UNIT	DIVISION 15	MOTOR SWITCH	--	LP3	31	
EF-2	EXHAUST FAN	120/1			1/4		3/4"C-2#12, 1#12 GND.	DIVISION 15	WITH UNIT	DIVISION 15	MOTOR SWITCH	--	LP3	33	E.C. TO WIRE T-STAT
EF-3	EXHAUST FAN	120/1			1/4		3/4"C-2#12, 1#12 GND.	DIVISION 15	WITH UNIT	DIVISION 15	MOTOR SWITCH	--	LP3	35	E.C. TO WIRE T-STAT

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461 FROM ROAD
PARAMUS, NJ 07652
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Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

(2)	04.01.16	LL/CLIENT COMMENTS
(3)	04.13.16	FIELD CONDITIONS

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

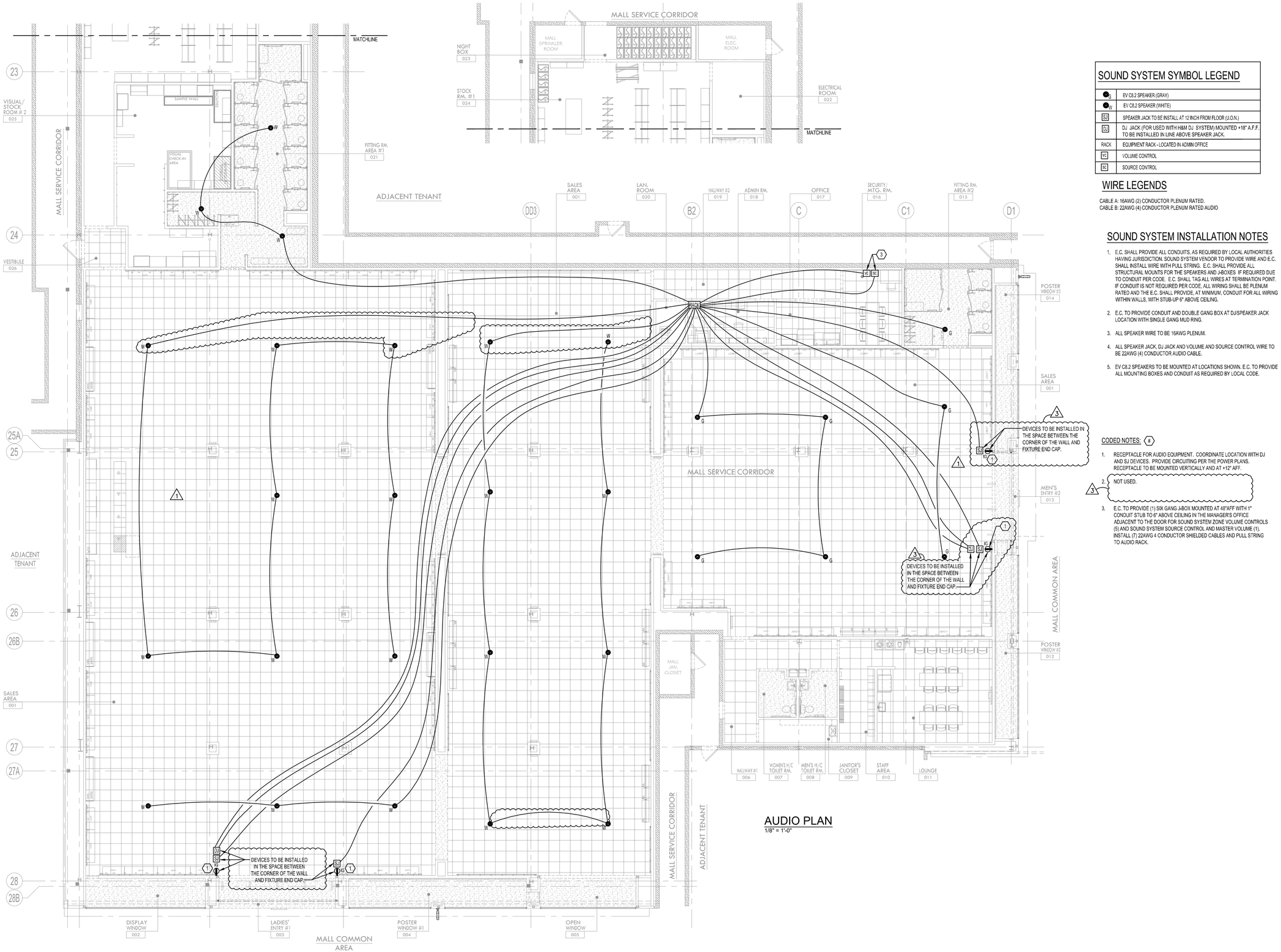
SHEET TITLE:
HVAC POWER PLAN

H&M 2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 15 of 22

E-412.03

DOB NO:



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

SOUND SYSTEM SYMBOL LEGEND

G	EV C8.2 SPEAKER (GRAY)
W	EV C8.2 SPEAKER (WHITE)
SJ	SPEAKER JACK TO BE INSTALL AT 12 INCH FROM FLOOR (U.O.N.)
DJ	DJ JACK (FOR USED WITH H&M DJ SYSTEM) MOUNTED +18" A.F.F. TO BE INSTALLED IN LINE ABOVE SPEAKER JACK.
RACK	EQUIPMENT RACK - LOCATED IN ADMIN OFFICE
VC	VOLUME CONTROL
SC	SOURCE CONTROL

WIRE LEGENDS

CABLE A: 16AWG (2) CONDUCTOR PLENUM RATED.
CABLE B: 22AWG (4) CONDUCTOR PLENUM RATED AUDIO

SOUND SYSTEM INSTALLATION NOTES

1. E.C. SHALL PROVIDE ALL CONDUITS, AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. SOUND SYSTEM VENDOR TO PROVIDE WIRE AND E.C. SHALL INSTALL WIRE WITH PULL STRING. E.C. SHALL PROVIDE ALL STRUCTURAL MOUNTS FOR THE SPEAKERS AND J-BOXES IF REQUIRED DUE TO CONDUIT PER CODE. E.C. SHALL TAG ALL WIRES AT TERMINATION POINT. IF CONDUIT IS NOT REQUIRED PER CODE, ALL WIRING SHALL BE PLENUM RATED AND THE E.C. SHALL PROVIDE, AT MINIMUM, CONDUIT FOR ALL WIRING WITHIN WALLS, WITH STUB-UP 6" ABOVE CEILING.
2. E.C. TO PROVIDE CONDUIT AND DOUBLE GANG BOX AT DJ/SPEAKER JACK LOCATION WITH SINGLE GANG MUD RING.
3. ALL SPEAKER WIRE TO BE 16AWG PLENUM.
4. ALL SPEAKER JACK, DJ JACK AND VOLUME AND SOURCE CONTROL WIRE TO BE 22AWG (4) CONDUCTOR AUDIO CABLE.
5. EV C8.2 SPEAKERS TO BE MOUNTED AT LOCATIONS SHOWN. E.C. TO PROVIDE ALL MOUNTING BOXES AND CONDUIT AS REQUIRED BY LOCAL CODE.

CODED NOTES: (#)

1. RECEPTACLE FOR AUDIO EQUIPMENT. COORDINATE LOCATION WITH DJ AND SJ DEVICES. PROVIDE CIRCUITING PER THE POWER PLANS. RECEPTACLE TO BE MOUNTED VERTICALLY AND AT +12" AFF.
2. NOT USED.
3. E.C. TO PROVIDE (1) SIX GANG J-BOX MOUNTED AT 48"AFF WITH 1" CONDUIT STUB TO 6" ABOVE CEILING IN THE MANAGER'S OFFICE ADJACENT TO THE DOOR FOR SOUND SYSTEM ZONE VOLUME CONTROLS (5) AND SOUND SYSTEM SOURCE CONTROL AND MASTER VOLUME (1). INSTALL (7) 22AWG 4 CONDUCTOR SHIELDED CABLES AND PULL STRING TO AUDIO RACK.

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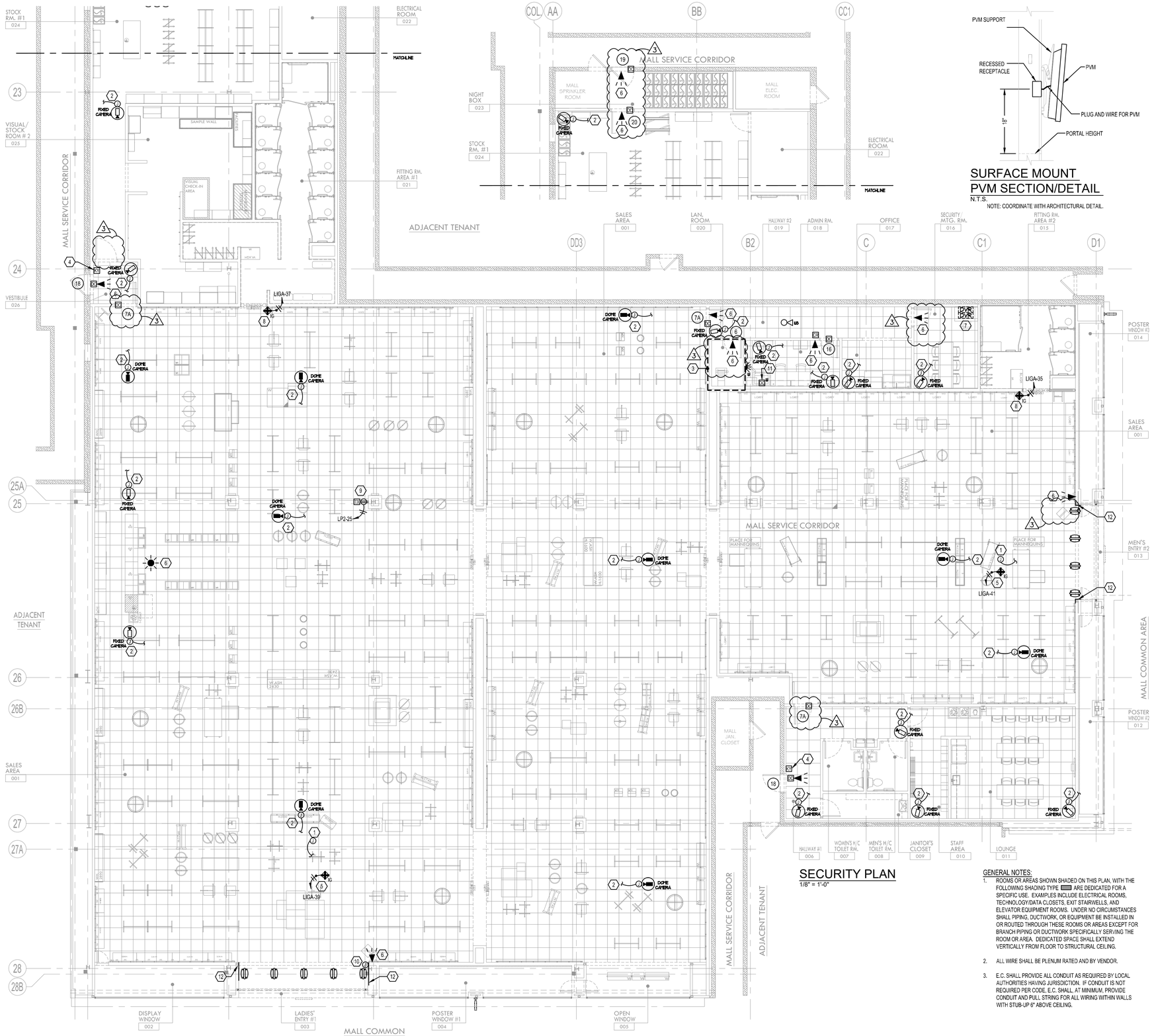
SHEET TITLE:
AUDIO PLAN

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 16 of 22

E-510.03

DOB NO:



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

SURFACE MOUNT PVM SECTION/DETAIL
N.T.S.

NOTE: COORDINATE WITH ARCHITECTURAL DETAIL.

DOOR SCHEDULE - CUBE SYSTEM

DOOR SET*	ROOM	ELECTRICAL REQUIREMENTS BY E.C.**
4	MANAGER	PROVIDE #18/2C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, SHIELDED #18/6C FOR CARD READER). SEE DETAIL 5/E-611.00 FOR ADDITIONAL INFORMATION.
6	LAN ROOM	PROVIDE #18/2C AND SHIELDED #18/6C FROM DOOR TO CUBE SYSTEM (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, SHIELDED #18/6C FOR CARD READER). SEE DETAIL 7/E-611.00 FOR ADDITIONAL INFORMATION.
7	SALES TO BOH WITH ALARM	PROVIDE #18/6C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR PUSH TO EXIT BUTTON, #18/2C FOR SIREN,SHIELDED #18/6C FOR CARD READER). SEE DETAIL 3/E-611.00 FOR ADDITIONAL INFORMATION.
7A	SALES TO BOH	PROVIDE #18/4C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR PUSH TO EXIT BUTTON, SHIELDED #18/6C FOR CARD READER). SEE DETAIL 10/E-611.00 FOR ADDITIONAL INFORMATION.
8	STOCK ROOM TO SALES	PROVIDE #18/4C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR PUSH TO EXIT BUTTON, SHIELDED #18/6C FOR CARD READER).
9	SECURITY / MANAGER ROOM	PROVIDE SHIELDED #18/6C FROM ARROW TOUCH SCREEN TO LAN ROOM CUBE SYSTEM.
13	EGRESS	PROVIDE #18/8C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM. (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR DOOR CONTACT, #18/4C FOR SECURITY KEYPAD, SHIELDED #18/6C FOR CARD READER). PROVIDE 2-GANG BOX FOR KEYPAD WITH 2-GANG MUD RING AT +54" AFF. SEE DETAIL 4/E-611.00 FOR ADDITIONAL INFORMATION.
16	ADMIN OFFICE	PROVIDE #18/4C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM. (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR DOOR CONTACT, SHIELDED #18/6C FOR CARD READER). SEE DETAIL 6/E-611.00 FOR ADDITIONAL INFORMATION.
18	EMPLOYEE ENTRANCE	PROVIDE #18/8C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM. (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR DOOR CONTACT, #18/4C FOR SECURITY KEYPAD, SHIELDED #18/8C FOR 2 CARD READERS). PROVIDE 2-GANG BOX FOR KEYPAD WITH 2-GANG MUD RING AT +54" AFF. SEE DETAIL 1/E-611.00 FOR ADDITIONAL INFORMATION.
19	NIGHT BOX ENTRANCE	PROVIDE #18/8C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM. (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR DOOR CONTACT, #18/4C FOR SECURITY KEYPAD, SHIELDED #18/6C FOR CARD READER). PROVIDE 2-GANG BOX FOR KEYPAD WITH 2-GANG MUD RING AT +54" AFF. SEE DETAIL 8/E-611.00 FOR ADDITIONAL INFORMATION.
20	STOCKROOM TO NIGHT BOX	PROVIDE #18/6C AND SHIELDED #18/6C FROM DOOR TO LAN ROOM CUBE SYSTEM. (#18/2C FOR ELECTRIC STRIKE IN DOOR JAM, #18/2C FOR DOOR CONTACT, #18/2C FOR CARDREADER, SHIELDED #18/6C FOR CARD READER). SEE DETAIL 9/E-611.00 FOR ADDITIONAL INFORMATION.

NOTE:
- NO CONDUIT IS REQUIRED EXCEPT AT WALLS (STUB-UPS) U.N.O. BY A.H.J.
- ALL WIRE SHALL BE PLENUM RATED.
- ALL WIRE SUPPORTS BY VENDOR.
- POWER FOR LOW VOLTAGE STRIKES BY CUBE.
- NOT ALL DOORS AND ROOMS LISTED ABOVE MAY BE USED ON THIS PROJECT. REFER TO PLANS FOR EXACT ROOMS.
- ** E.C. SHALL COORDINATE DOOR SET NUMBER WITH ARCHITECTURAL PRINTS.
- ** E.C. SHALL INCREASE WIRE SIZE DUE TO VOLTAGE DROP/CONDUIT LENGTH
  - 0-200 FEET: USE 18 GUAGE
  - 200-300 FEET: USE 16 GUAGE
  - 300+: CONTACT SECURITY VENDOR FOR INSTALLATION DETAILS

GENERAL NOTES:
1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▨ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. ALL WIRE SHALL BE PLENUM RATED AND BY VENDOR.
3. E.C. SHALL PROVIDE ALL CONDUIT AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION. IF CONDUIT IS NOT REQUIRED PER CODE, E.C. SHALL, AT MINIMUM, PROVIDE CONDUIT AND PULL STRING FOR ALL WIRING WITHIN WALLS WITH STUB-UP 6" ABOVE CEILING.

CODED NOTES: (#)
1. PROVIDE A JUNCTION BOX MOUNTED TO THE STRUCTURAL CEILING FOR FUTURE BURGLARY DEVICE. BURGLARY DEVICES SUCH AS GLASS BREAK SENSORS AND MOTION DETECTORS SHALL BE PROVIDED BY THE SECURITY CONTRACTOR.
2. PROVIDE A JUNCTION BOX FOR FUTURE SECURITY CAMERAS.
3. REFER TO ENLARGED PLAN OF THIS AREA ON DRAWING E-411 FOR IT/SECURITY EQUIPMENT REQUIRING POWER IN THIS ROOM.
4. APPROXIMATE LOCATION OF SECURITY KEY PAD AT EMPLOYEE ENTRANCE. VERIFY EXACT LOCATION WITH H&M REPRESENTATIVE. COORDINATE EXACT WIRING REQUIREMENTS WITH H&M SECURITY VENDOR.
5. PUBLIC VIEW MONITOR (PVM) TO BE WALL/COLUMN MOUNTED IF POSSIBLE (PROVIDE RECESSED MOUNT AS CALLED OUT ON ARCHITECTURAL PLANS, OR CEILING MOUNTED IF NO WALL/COLUMN OR SUFFICIENT SPACE ON A WALL/COLUMN EXISTS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN WITH SECURITY VENDOR AND ARCHITECTURAL PLANS. REFER TO PVM SECTION/DETAIL FOR WALL/COLUMNS AS APPLICABLE.
6. PROVIDE A JUNCTION BOX FOR BURG MOTION SENSOR. VERIFY EXACT LOCATION AND QUANTITY PRIOR TO BID.
7. ADI-I42-H17 (HEAD END MONITOR) AND SAMSUNG-SCC-100 (PTZ CONTROLLER KEYBOARD & JOYSTICK) TO BE MOUNTED IN THE MANAGER/SECURITY ROOM. FINAL LOCATION TO BE FIELD VERIFIED BY H&M SUPERVISOR.
8. PUBLIC VIEW MONITOR (PVM) 12"-18" ABOVE PORTAL ON LEFT SIDE (IF AVAILABLE). REFER TO SURFACE MOUNT PVM SECTION/DETAIL.
9. PROVIDE AN UNCONTROLLED CIRCUIT AT 6" BELOW CEILING FOR WIRELESS REPEATER. VERIFY LOCATION OF WIRELESS REPEATER WITH VENDOR PRIOR TO ROUGH-IN.
10. E.C. TO PROVIDE A DOUBLE GANG BOX WITH SINGLE GANG MUD RING AT 6" AFF MOUNTED HORIZONTALLY WITH 3/4" CONDUIT STUB TO 6" ABOVE CEILING FOR ROLLING GRILLE SECURITY CONTACT. JUNCTION BOX SHOULD BE INSTALLED 5" TO THE CENTER FROM THE INTERIOR CORNER OF THE GRILLE CHANNEL GUIDE.
11. J-BOX FOR SAFE DOOR CONTACT. MOUNT 6" ABOVE SAFE ALIGNED WITH LATCH SIDE OF DOOR. COORDINATE EXACT SIZE, LOCATION OF LATCH SIDE OF DOOR, AND LOCATION OF SAFE WITH H&M PM.
12. GC TO PROVIDE ALUMINUM SCREENING OR FOIL BEHIND FINISH TO PROTECT PEDESTAL FROM STRUCTURAL STEEL AND FRAMING. PROVIDE FROM FINISHED FLOOR TO 6'-2" A.F.F. MINIMUM AND 2'-4" WIDE.

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461 FROM ROAD
PARAMUS, NJ 07652
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973.253.9390 FAX
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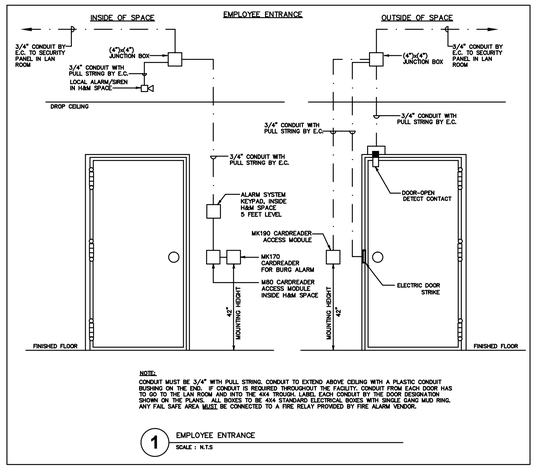
SHEET TITLE:
SECURITY PLAN

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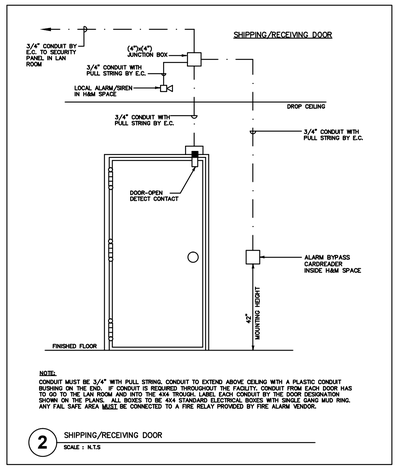
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E-610.03

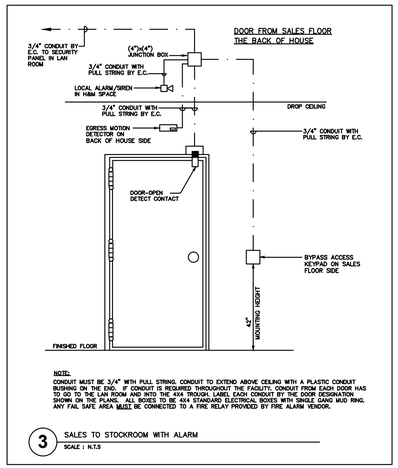
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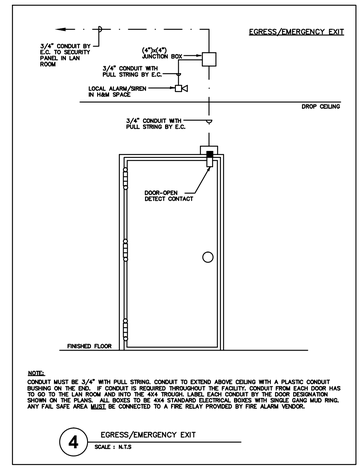
1 EMPLOYEE ENTRANCE
SCALE : N.T.S



2 SHIPPING/RECEIVING DOOR
SCALE : N.T.S



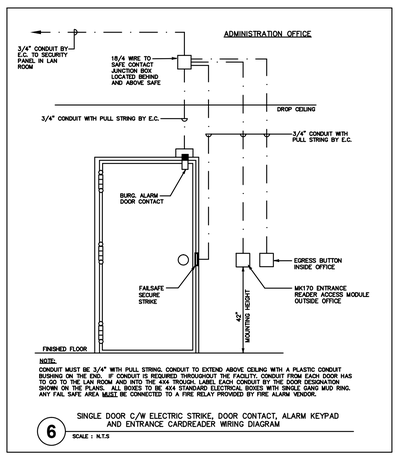
3 SALES TO STOCKROOM WITH ALARM
SCALE : N.T.S



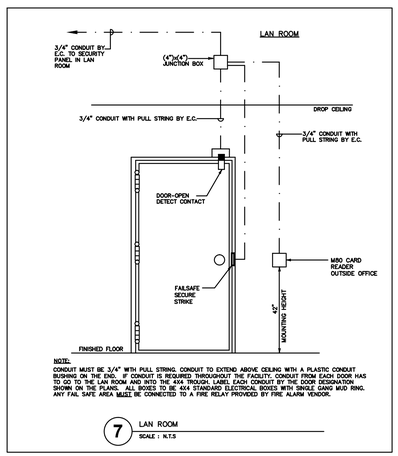
4 EGRESS/EMERGENCY EXIT
SCALE : N.T.S

NOT USED

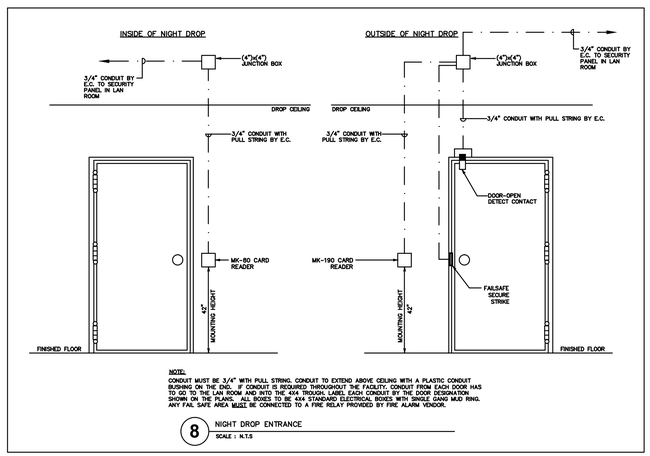
5 MANAGERS OFFICE
SCALE : N.T.S



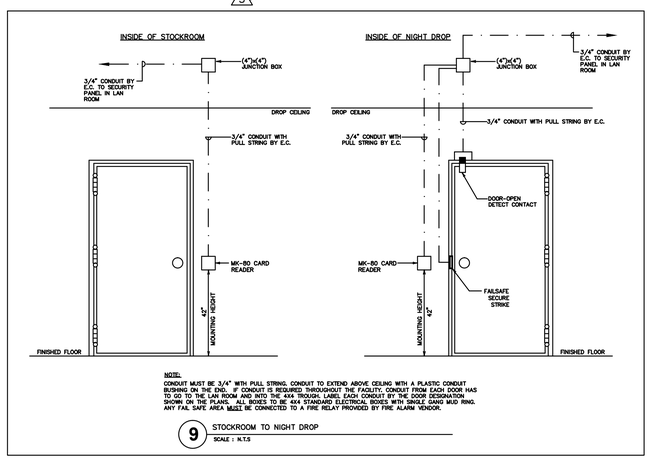
6 SINGLE DOOR C/W ELECTRIC STRIKE, DOOR CONTACT, ALARM KEYPAD AND ENTRANCE CARDREADER WIRING DIAGRAM
SCALE : N.T.S



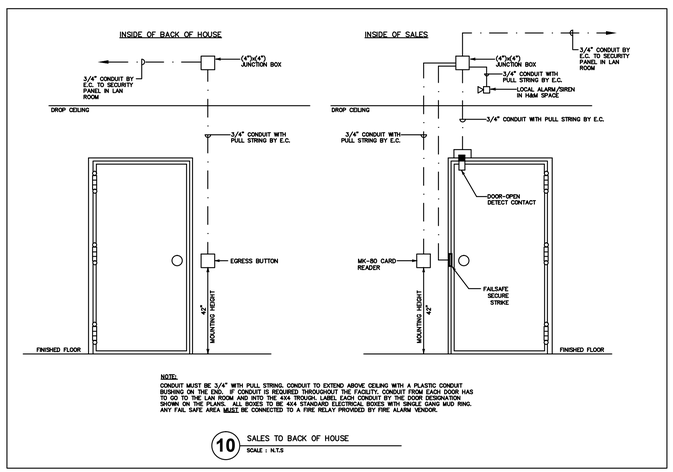
7 LAN ROOM
SCALE : N.T.S



8 NIGHT DROP ENTRANCE
SCALE : N.T.S



9 STOCKROOM TO NIGHT DROP
SCALE : N.T.S



10 SALES TO BACK OF HOUSE
SCALE : N.T.S

SHOWN FOR REFERENCE AND BIDDING PURPOSES ONLY.
REFER TO JOB SPECIFIC SHOP DRAWINGS BEFORE INSTALLATION.
E.C. IS RESPONSIBLE FOR ALL CONDUIT AND BACKBOXES

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SCALE: AS NOTED

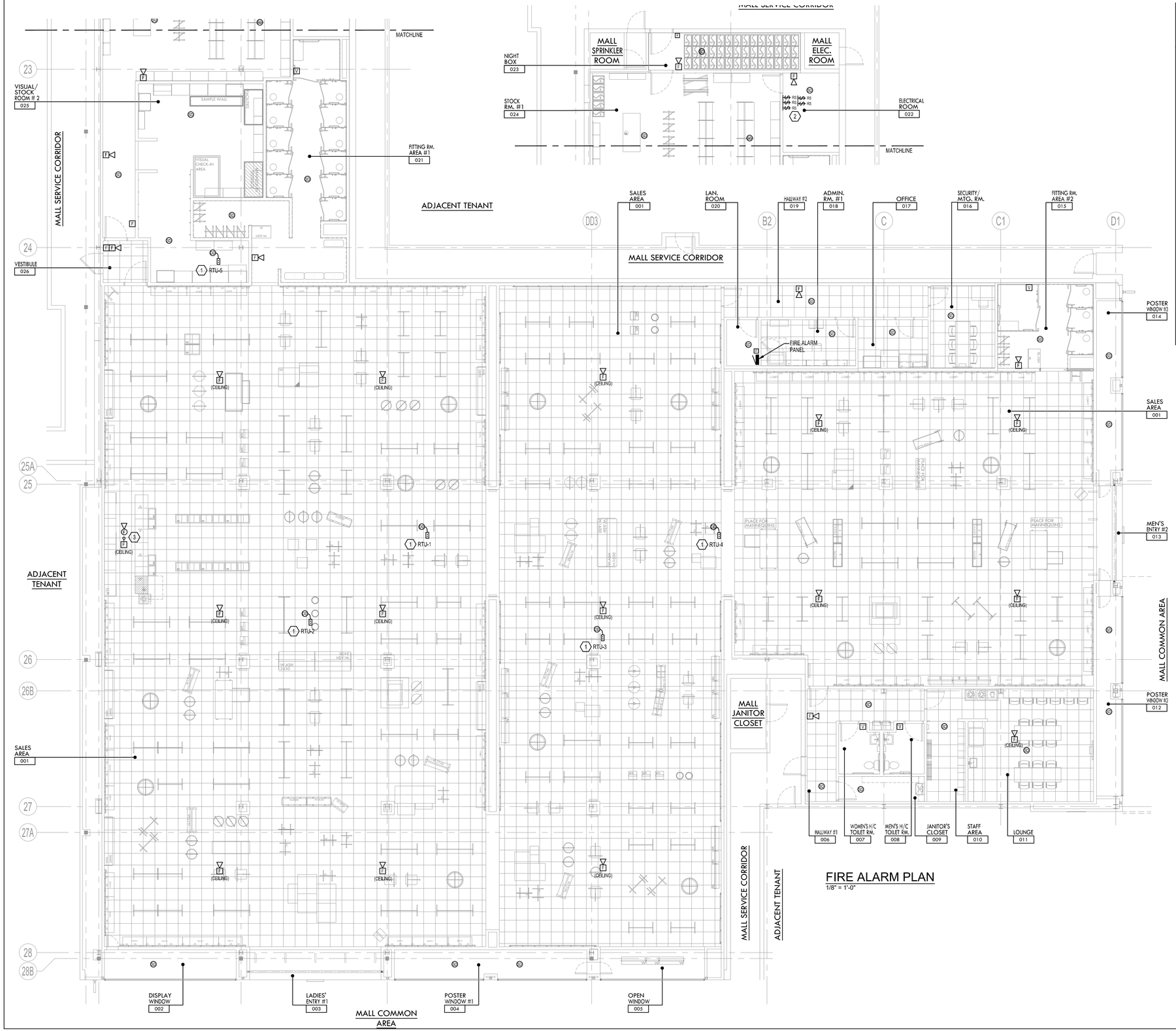
SHEET TITLE:
SECURITY DETAILS

H&M
2016
US366 - BLUE
APACHE MALL, SPACE: 305
1201 12TH. ST. SW.
ROCHESTER, MN 55902

SHEET NO: 18 of 22

E-611.03

DOB NO:



FIRE ALARM PLAN
1/8" = 1'-0"

FIRE ALARM SYSTEM SYMBOL LEGEND

SYMBOL	DESCRIPTION
(S)^E	ABOVE CEILING AND CEILING-MOUNTED SMOKE DETECTOR (SUPERSCRIPT "E" DENOTES ELEVATOR RECALL)
(H)^C (F)	FIRE ALARM SPEAKER/ HORN/STROBE DEVICE (SUBNOTE "C" DENOTES CEILING MOUNTED)
V	FIRE ALARM VISUAL DEVICE (SUBNOTE "C" DENOTES CEILING MOUNTED)
FS	SPRINKLER SYSTEM FLOW SWITCH BY FPC WIRED BY E.C. COORDINATE WITH MECHANICAL CONTRACTOR.
TS	SPRINKLER SYSTEM TAMPER SWITCH BY FPC WIRED BY E.C. COORDINATE WITH MECHANICAL CONTRACTOR.
(D) RS	DUCT-TYPE SMOKE DETECTOR WITH REMOTE TEST STATION PROVIDED BY ELECTRICAL CONTRACTOR TO MATCH F.A. SYSTEM DEVICES. WIRED BY E.C. - INSTALLED BY MECHANICAL CONTRACTOR PER CODE. COORDINATE EXACT LOCATION WITH HVAC CONTRACTOR & MANUFACTURER. PROVIDE CONDUIT & WIRING NECESSARY TO SHUT DOWN HVAC UNIT UPON SMOKE DETECTOR ACTIVATION.
FACP	FIRE ALARM CONTROL PANEL
F	MANUAL PULL STATION MOUNTED 48" AFF TO TOP.
M	MONITORING MODULE
RM	RELAY MODULE
ANN	FIRE ALARM REMOTE ANNUNCIATOR (FLUSH MOUNTED)
HLDH	DOOR HOLD OPEN (EDWARDS: 1508-AQN5 (WALL), 1501-AQN5 (FLOOR), 1500-1, OR EQUAL)
(H)^E	CEILING-MOUNTED HEAT DETECTOR (SUPERSCRIPT "E" DENOTES ELEVATOR RECALL)
SPCP	SMOKE PURGE CONTROL PANEL
FPSC-"X"	FIRE PROTECTIVE SMOKE CURTAIN
GCP	GROUP CONTROL PANEL FOR ATRIUM FIRE PROTECTIVE SMOKE CURTAIN
(S)	FIRE ALARM STROBE DEVICE (SUBNOTE "C" DENOTES CEILING MOUNTED)

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▭ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. FIRE ALARM DEVICES MOUNTED ON COLUMNS SHOULD BE INSTALLED AS CLOSE TO THE EDGE OF THE COLUMN AS POSSIBLE. COORDINATE LOCATIONS WITH FULL-HEIGHT MIRRORS AND/OR DISPLAY RACKS.
3. REFER TO SHEET E-011.00 FOR MORE INFORMATION/DETAIL
4. E.C. IS RESPONSIBLE FOR ALL LIFE-SAFETY DEVICES/EQUIPMENT, EMERGENCY LIGHTING AND EXIT SIGNAGE PER PHASE. THE E.C. IS RESPONSIBLE FOR TEMPORARY RELOCATION OR ADDITION OF LIFE-SAFETY DEVICES/EQUIPMENT, EMERGENCY LIGHTING & EXIT SIGNAGE AS REQUIRED.
5. FURNISH, INSTALL AND LOCATE FLUSH-MOUNTED REMOTE ANNUNCIATORS AS REQUIRED BY LOCAL AUTHORITIES HAVING JURISDICTION.
6. VERIFY ALL FIRE ALARM REQUIREMENTS WITH MALL'S FIRE ALARM CONTRACTOR, ADT, INCLUDING MONITORING OF DUCT DETECTORS.
7. DEVICES SHOWN ON THIS PLAN ARE H&M'S MINIMUM REQUIREMENTS FOR INSURANCE PURPOSES. FIRE ALARM SYSTEM TO BE DESIGNED PER LOCAL CODE AND MALL REQUIREMENTS. IF A SYSTEM IS NOT REQUIRED THEN DEVICES TO BE INSTALLED PER PLAN AND H&M MINIMUM REQUIREMENTS.

CODED NOTES: (#)

1. SMOKE DUCT DETECTORS ARE PROVIDED BY THE LANDLORD WITHOUT REMOTE TEST SWITCHES. LANDLORD TO INTERLOCK DETECTOR FOR SHUT DOWN.
2. E.C. TO PROVIDE, INSTALL AND CONNECT REMOTE TEST SWITCH TO DUCT SMOKE DETECTOR IN UNIT. VERIFY LOCATION OF VISUAL INDICATOR LIGHTS. LANDLORD TO INTERLOCK RTU STARTER SO UNIT SHUTS DOWN IN THE EVENT OF DUCT DETECTOR ACTIVATION.
3. E.C. TO PROVIDE SEPARATE STROBE AND SPEAKER AT CASH WRAP TO TIE INTO LANDLORD'S P.A. SYSTEM. COORDINATE WITH LANDLORD.

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS, NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

PAUL J. FETTINGER
DATE: 4/01/2016
REG. NO.: 43079

REVISION:

ISSUE DATE:
03.11.16 LANDLORD REVIEW & BID
04.01.16 PERMIT ISSUANCE

HEI PROJECT NO.: R15-2133.014
PRODUCT SEASON: 2016
SPACE NO.: 305
DRAWN BY: BJK/KLS
SCALE: AS NOTED

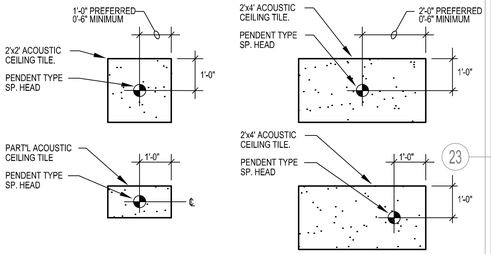
SHEET TITLE:
FIRE ALARM PLAN

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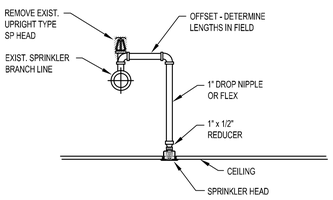
SHEET NO: 19 of 22

E-710.00

DOB NO:



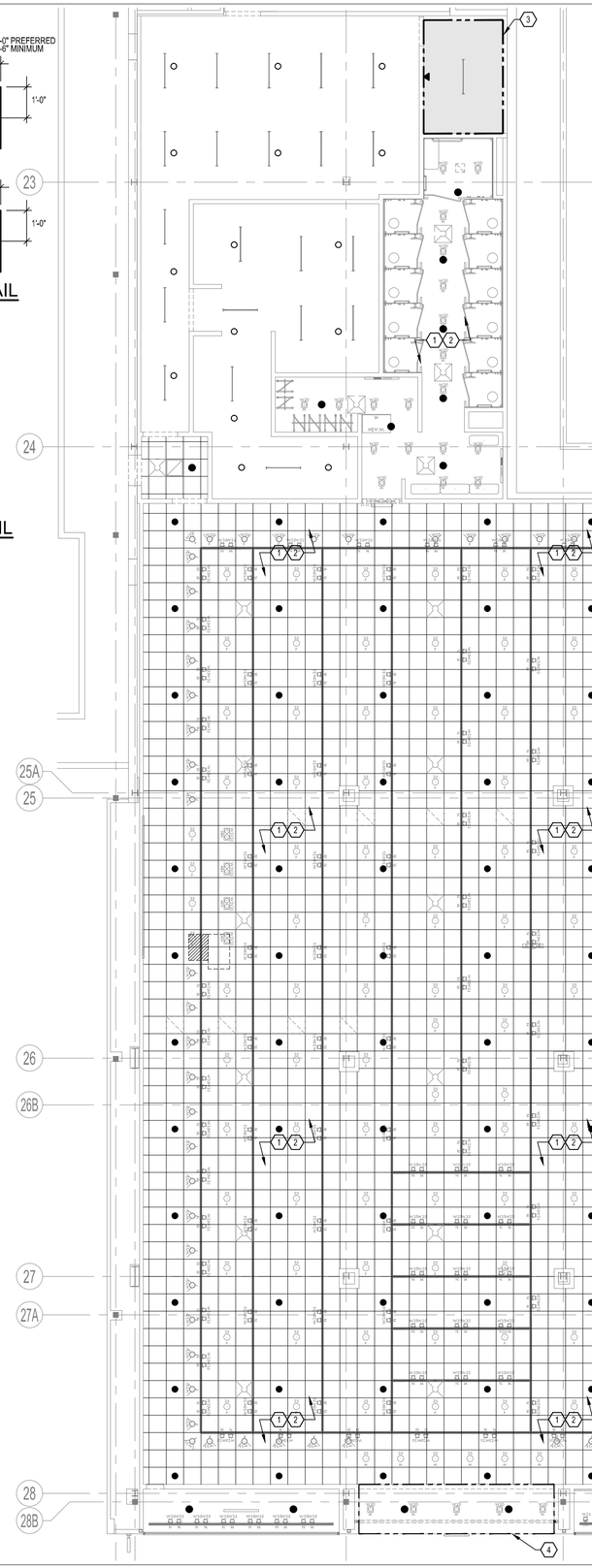
SPRINKLER HEAD LOCATION DETAIL
N.T.S.



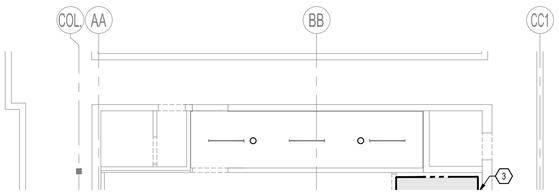
SPRINKLER HEAD PIPING DETAIL
N.T.S.

GENERAL NOTES:

1. ROOMS OR AREAS SHOWN SHADED ON THIS PLAN, WITH THE FOLLOWING SHADING TYPE ▭ ARE DEDICATED FOR A SPECIFIC USE. EXAMPLES INCLUDE ELECTRICAL ROOMS, TECHNOLOGY/DATA CLOSETS, EXIT STAIRWELLS, AND ELEVATOR EQUIPMENT ROOMS. UNDER NO CIRCUMSTANCES SHALL PIPING, DUCTWORK, OR EQUIPMENT BE INSTALLED IN OR ROUTED THROUGH THESE ROOMS OR AREAS EXCEPT FOR BRANCH PIPING OR DUCTWORK SPECIFICALLY SERVING THE ROOM OR AREA. DEDICATED SPACE SHALL EXTEND VERTICALLY FROM FLOOR TO STRUCTURAL CEILING.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION AND PROPER INSTALLATION OF ALL FIRE PROTECTION SYSTEMS.
3. THE CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL ETC. FOR THE PROPER INSTALLATION OF ALL FIRE PROTECTION SYSTEMS.
4. THE CONTRACTOR SHALL COORDINATE FLOOR, WALL AND ROOF PENETRATIONS WITH THE GENERAL TRADES CONTRACTOR.
5. PIPING SHALL NOT BE LOCATED OVER THE TOP OF ANY ELECTRICAL PANELS OR EQUIPMENT.
6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF SPRINKLER HEADS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. ALL SPRINKLER HEADS ARE TO BE LOCATED IN THE CENTER OF CEILING TILES IN LAY-IN AREAS UNLESS OTHERWISE INDICATED.
7. PROVIDE GUARDS FOR SPRINKLERS IN STORAGE AREAS.
8. SPRINKLER HEADS ARE SHOWN FOR COORDINATION ONLY. A REGISTERED SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL DESIGN AND INSTALLATION OF COMPLETE SPRINKLER SYSTEM ALL IN ACCORDANCE WITH NFPA-13 ,LOCAL FIRE PREVENTION AUTHORITY AS WELL AS LOCAL MALL REQUIREMENTS.
9. FIRE PROTECTION CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL OBSTRUCTIONS INCLUDING: PIPING, STRUCTURAL STEEL, CONDUIT, DUCTWORK, EQUIPMENT AND MISCELLANEOUS ITEMS BEFORE INSTALLATION OF SPRINKLER SYSTEM TO AVOID INTERFERENCES.
10. FABRICATION, ERECTION AND TESTING OF ALL PIPING SYSTEMS SHALL BE IN ACCORDANCE WITH OWNERS GENERAL REQUIREMENTS, N.F.P.A. #13 & #24,AND LOCAL CODE & AUTHORITIES.
11. FIRE PROTECTION CONTRACTOR SHALL MAKE ALL DRAWINGS, SUBMITTALS, TEST CERTIFICATE SUBMITTALS AND PAY ALL REQUIRED FEES TO THE OWNERS INSURING AGENT AND LOCAL AUTHORITIES FOR REQUIRED PERMITS.
12. LANDLORD APPROVED CONTRACTOR SHALL BE EMPLOYED BY THE TENANT CONTRACTOR TO MODIFY, INSTALL SYSTEM AND PREPARE CONTRACT DOCUMENTS FOR CODE AND LANDLORD'S INSURER APPROVALS.
13. ALL WORK SHALL BE SCHEDULED WITH LANDLORD'S FIELD REPRESENTATIVE.
14. ALL SYSTEMS SHALL BE CHARGED AND OPERATIONAL WHEN THE CONTRACTOR IS NOT ON THE PREMISES.
15. FIRE SPRINKLER SYSTEM TO PROVIDE COVERAGE BELOW CEILINGS IN ALL AREAS PER THE STATE AND LOCAL FIRE MARSHALL.
16. CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR BUILDING DEPARTMENT APPROVAL PRIOR TO INSTALLATION OF SPRINKLER SYSTEM. FIRE SPRINKLER SYSTEM TO MEET REQUIREMENTS OF LANDLORD, NFPA 13 ,THE STATE AND LOCAL FIRE MARSHALL OR WHICHEVER IS MORE STRINGENT. REFER TO SPECIFICATION SECTION 15300 ON SHEET M-400 FOR FURTHER INFORMATION. SUBMIT SPRINKLER DESIGN TO LANDLORD'S INSURER AND H&M FOR APPROVAL.
17. FIRE PROTECTION PLANS (SPRINKLER DRAWINGS) MUST BE ENGINEERED AND WET SEALED BY A LANDLORD APPROVED, LICENSED REGISTERED FIRE PROTECTION CONTRACTOR IN THE LOCAL JURISDICTION.
18. REFER TO ARCHITECTURAL CEILING DEVICE PLAN TO LOCATE SPRINKLER HEADS.
19. CONTRACTOR IS RESPONSIBLE TO DRAIN AND REFILL BUILDING SYSTEMS EACH DAY DURING ITS WORK.



FIRE PROTECTION PLAN CONT.
1/8" = 1'-0"



CODED NOTES: ⟨#⟩

1. MODIFY EXISTING SPRINKLER PIPING AS REQUIRED IN ORDER TO PROVIDE PROPER COVERAGE.
2. WHITE FULLY CONCEALED SPRINKLER HEAD THIS AREA.
3. RELOCATE EXISTING SPRINKLER BRANCH LINES OR MAINS AROUND THIS AREA. NO PIPING MAY PASS ABOVE EQUIPMENT, THROUGH ROOM OR THROUGH OPENING. VERIFY EXTENT OF WORK PRIOR TO BID.
4. RAISE OR RELOCATE ANY EXISTING SPRINKLER LINES IN THIS AREA TO PROVIDE MINIMUM 15'-0" A.F.F. CLEAR FOR ROLLING GRILLES AT STORE ENTRANCES.
5. FULLY CONCEALED SPRINKLER HEAD IN MEN'S AREA TO BE FACTORY PAINTED TO MATCH CEILING COLOR. COORDINATE COLOR WITH ARCHITECTURAL PLANS.

LANDLORD GENERAL NOTE:

ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S "ENGINEERNG DESIGN CRITERIA". ALL CONTRACTORS SHALL OBTAIN A COPY FROM THE LANDLORD'S TENANT COORDINATOR OR MALL OPERATIONS MANAGER AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB. WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH CODES OR ORDINANCES, THE STRICTEST INTERPRETATION SHALL APPLY.

SPRINKLER HEAD LEGEND

- ○ UPRIGHT SPRINKLER HEAD
- ● FULLY CONCEALED SPRINKLER HEAD WITH WHITE COVER PLATE (UNLESS NOTED OTHERWISE)
- ▼ SIDEWALL SPRINKLER HEAD

FIRE PROTECTION PLAN
1/8" = 1'-0"

SA
SARGENTI ARCHITECTS
461 FROM ROAD
PARAMUS,NJ 07652
973.253.9393 TEL
973.253.9390 FAX
WWW.SARGARCH.COM

HALLBERG ENGINEERING
Mechanical/Electrical Consulting Engineers
1750 Commerce Court
White Bear Lake, MN 55110
(651) 748-1100 • Fax (651) 748-9370

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of MINNESOTA.

RICHARD L. LUCIO
DATE: 4/01/2016
REG. NO.: 42852

REVISION:

ISSUE DATE:

03.11.16	LANDLORD REVIEW & BID
04.01.16	PERMIT ISSUANCE

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SHEET NO: 1 of 1

FP-210.00

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