

CITY OF GLENDALE
5909 North Milwaukee River Parkway
Glendale, Wisconsin 53209

AGENDA -- PLAN COMMISSION
Tuesday, February 6, 2018
6:00 P.M.

1. Roll Call and Pledge of Allegiance.
2. Adoption of Minutes of Meeting of January 9, 2018.
3. a. Planned Sign Program Amendment/Plan Commission Review, Umansky Mercedes Benz, 1400 West Silver Spring Drive. Review and approve proposed change to the Planned Sign Program (PSP) and changes to exterior architecture.
Marcus Denton, Architect

NOTICE: Although this is NOT a meeting of the Glendale Common Council, a majority of Council members may be present. There will not be any deliberation or actions by the Council.
-Upon reasonable advance notice, efforts will be made to accommodate physically disabled individuals.-

NOTE:

Meeting is 6:00 PM Tuesday

City of Glendale Plan Commission

6:00 P.M., Tuesday, February 06, 2018

- Plan Commission Report -

Glendale

RICH PAST.
BRIGHT FUTURE.

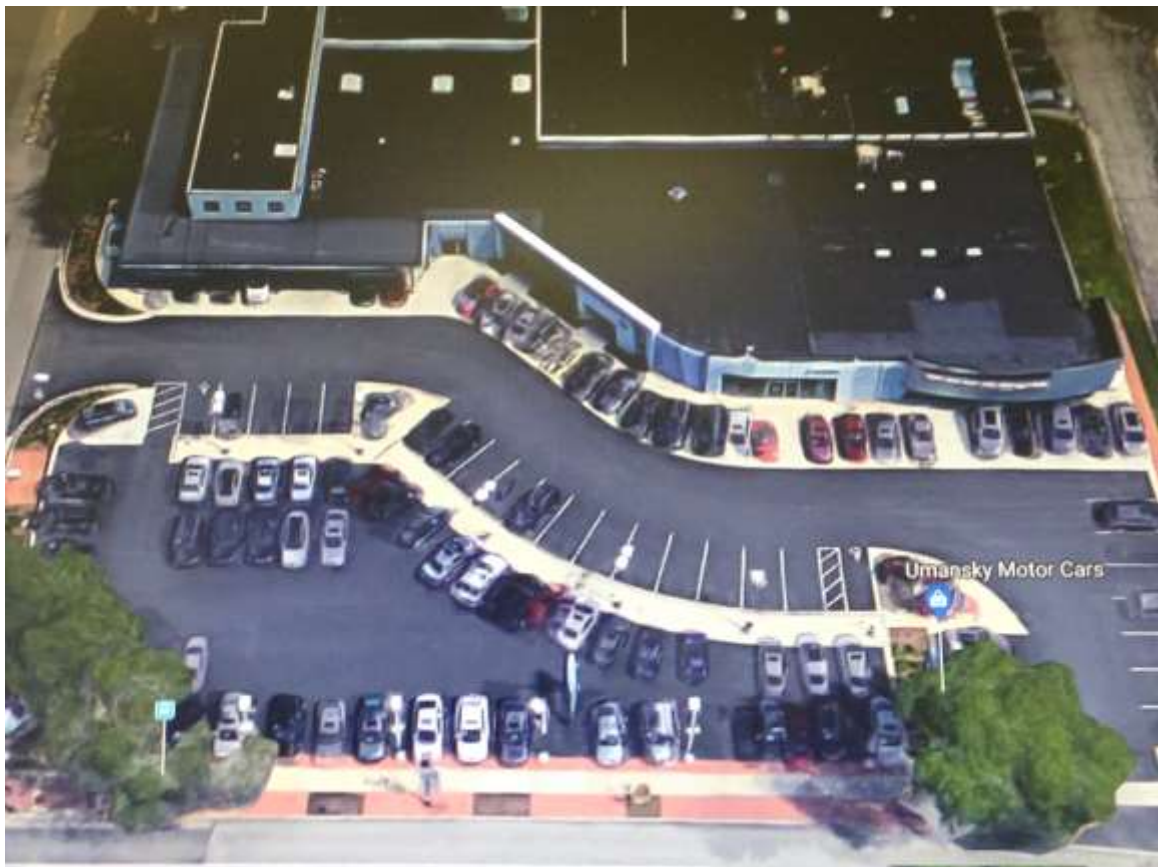


- 3a. **Planned Sign Program Amendment/Plan Commission Review, Umansky Mercedes Benz, 1400 West Silver Spring Drive.** Review and approve proposed change to the Planned Sign Program (PSP) and changes to exterior architecture.

Property owner Umansky Mercedes requests amendment to the existing Planned Sign Program (PSP) for 1400 West Silver Spring Drive and approval of related changes to the exterior architecture of the Mercedes Benz façade.

The existing Planned Sign Program incorporates all of the existing signage at the 1400 West Silver Spring Drive premises that replaced the prior Concours Motors signage. The proposed changes to the architecture includes prominent Mercedes Benz logos upon a 30-foot height sign wall, thus the direct relation between the proposed changes to the exterior architecture and the signage program for the premises.

Google Aerial Image of Umansky Mercedes, Volkswagen, and Porsche (View from South).



Staff Report to the Plan Commission
Meeting of Tuesday, February 6, 2018

Google Aerial Image of Umansky Mercedes (View from South).



Google Aerial Image of Umansky Mercedes (View from Southwest).



Staff Report to the Plan Commission
Meeting of Tuesday, February 6, 2018

Proposed Umansky Mercedes (View from South).



Proposed Umansky Mercedes (View from West).



Staff Report to the Plan Commission

Meeting of Tuesday, February 6, 2018

Mercedes Benz logos are proposed to be placed upon both the south and west tower surfaces. The proposed tower feature and parapet wall features, although there is not any more interior space, will provide a more prominent façade elements compared with the existing canopy only façade.

Tuesday, January 9, 2018

The City Plan Commission convened in the Common Council Chambers of City Hall, 5909 North Milwaukee River Parkway for its regular monthly meeting, rescheduled at the December 5, 2017, meeting to January 9, 2018, due to the New Year's holiday schedule.

Mayor Kennedy called the meeting to order at 6:00 p.m.

Roll Call: Present: Mayor Bryan Kennedy, Commissioners Bruce Cole, Gary Lippow, Josh Wadzinski, and JoAnn Shaw. Absent: Tomika Vukovic and Karn Cronwell.

Other Officials Present: Rachel Reiss, City Administrator, Todd M. Stuebe, Director of Community Development, and North Shore Fire Department Battalion Chief John Maydak.

In accordance with the Open Meeting Law, the North Shore NOW, the City's official newspaper, was advised on Thursday, January 4, 2018, of the date of this meeting, the agenda was posted on the official bulletin board in City Hall, copies of the agenda were made available to the general public in the Municipal Building and the Police Department, and those persons who have requested were sent copies of the agenda.

PLEDGE OF ALLEGIANCE.

The Members of the Plan Commission, City staff and all those present pledged allegiance to the flag of the United States of America.

ADOPTION OF THE MINUTES.

Motion was made by Comm. Lippow, seconded by Comm. Shaw, to approve the minutes of the meeting held Tuesday, December 05, 2017. Roll Call: Ayes: Mayor Kennedy, Commissioners Cole, Lippow, Wadzinski, and Shaw. Noes: None. Abstain: None. Motion carried unanimously.

MATTERS FOR CONSIDERATION.

- I. Planned Sign Program Amendment/Change to Exterior Architecture, Pizza Studio, 6969 North Port Washington Road (Glendale Market).

CITY OF GLENDALE -- PLAN COMMISSION

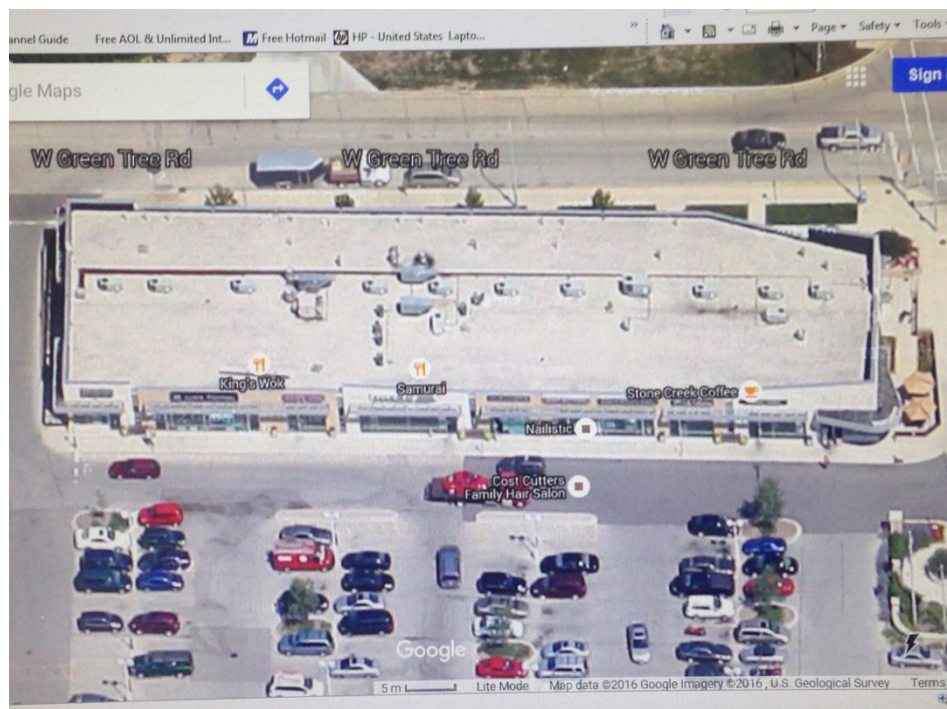
Review and approve proposed change to Planned Sign Program/exterior architecture to screen refrigerator/freezer.

Mr. Stuebe stated that the Plan Commission Report was distributed to the Plan Commissioners and Applicant and is incorporated herein as follows:

Property owner General Capital Group and Plan Commission approved tenant Pizza Studio request amendment to the existing Planned Sign Program (PSP) to accommodate the need to screen the view of refrigerator/freezer units that will be installed for Pizza Studio in the northwest corner of the building.

The existing Planned Sign Program allows each tenant in the north building two wall signs (one to the north and one to the south) and a limited amount of well-designed window signage. The proposed change is to allow the windows to be completely covered over with a film that includes Pizza studio imagery (Refer to Proposed Window Screen Design Image). Pizza Studio will also have the allowed two wall signs (Refer to Proposed Pizza Studio Wall Signage).

Google Aerial Image of Glendale Market (View from South).



Photograph of Future Pizza Studio from West Green Tree Road. Refrigerator/Freezer will be located inside proximate to corner windows.



Proposed Pizza Studio Window Screen Design Images (View From West Green Tree Road).



Proposed Pizza Studio Wall Signage.



View from South Parking Lot



View from West Green Tree Road

The proposed window screens completely cover the windows, are opaque, are not lit (neither backlit or internally illuminated), and include graphic imagery and commercial signage messages. As such there are both architectural aesthetic and Planned Sign Program implications to be considered and resolved. Staff has encouraged the most aesthetically attractive design possible in view of the attractive building architecture and being mindful of the City of Glendale's goals and objectives for both architecture and signage. What is proposed is what Pizza Studio designers have created and has the support of both the tenant (Pizza studio franchisee Aaron Hurvitz) and the property owner (General Capital Group). Under the Planned Sign Program some window signage is allowed (a single sign up to 12 square feet per tenancy). The practical consideration is screening the view through the windows of the refrigerator/freezer in an aesthetically pleasing and lasting way. This is a relatively unique scenario. The Plan Commission may approve the proposed change to the existing Planned Sign Program to allow for the proposed window screens and signage and, if it does decide to do so, should also make this a requirement for occupancy to assure that window screening will be in place.

Community Development Director Stuebe stated that it is up to the Plan Commission to consider and determine whether or not to approve the proposed amendment to the Planned Sign Program.

Jeff Brown introduced himself as representing General Capital Group, owner of The Glendale Market, and the tenant Pizza Studio.

Dale Schmidt introduced himself as representing Aaron Hurvitz of Pizza Studio, and strongly advocated the proposed refrigerator/freezer screening.

Motion by Comm. Cole, seconded by Comm. Shaw, that the Plan Commission grant approval of the proposed amendment to the Planned Sign Program for the property and the proposed Pizza Studio window screening, and further that the proposed window screening be a requirement prior to occupancy of the premises by Pizza Studio. Roll Call: Ayes: Mayor Kennedy, Commissioners Cole, Lippow, Wadzinski, and Shaw. Noes: None. Abstain: None. Motion carried unanimously.

- II. Plan Commission Review, The Bronzing Lounge Airbrush Tanning Salon and boutique, 325 West Silver Spring Drive-Suite 200 West. Review and approve airbrush tanning salon and retail boutique sale of swimwear, jewelry, and other accessories, use and occupancy.

Mr. Stuebe stated that the Plan Commission Report was distributed to the Plan Commissioners and Applicant and is incorporated herein as follows:

The Bronzing Lounge, an airbrush tanning salon that also includes a retail boutique that sells swimwear, jewelry, and other accessories, seeks Plan Commission use and occupancy approval to occupy a 1,100 square-foot second level tenant space located at 325 West Silver Spring Drive (previously Grassroots Northshore). The property is zoned B-1, D1 Business and Commercial District, and the proposed use and occupancy requires Plan Commission use and occupancy review and approval.

The Bronzing Lounge operates an existing store located at 7217 West North Avenue. Bronzing Lounge is not proposing any changes to the exterior or interior of the tenant space other than a non-illuminated sign. Airbrush tanning, as described in the submittal materials, is also known as spray tanning, is not ultra-violet (uV) tanning, it is a method whereby the client is sprayed with a chemical using a high volume low pressure (HVLP) sprayer. Bronzing Lounge states that the method is not regulated by the State of Wisconsin and, as such, does not require any State license, and represents that the chemical product in the spray solution is approved by the Food and Drug Administration (FDA), and as a water-based product does not create a fire hazard. The Bronzing Lounge

CITY OF GLENDALE -- PLAN COMMISSION

Frequently Asked Questions indicates that the tanning spray solution contains the chemical dihydroxyacetone, or DHA, which interacts with the dead surface cells in the epidermis to darken the skin color and simulate a tan. The spray equipment is said to be like a quiet vacuum cleaner.

Photograph of 325 West Silver Spring Drive, Suite 200 West Environs.

+



Business hours are Tuesday through Friday from 11:00 a.m. to 8:00 p.m., and Saturday 11:00 a.m. to 2:00 p.m. The Bronzing Lounge employs five, two of whom will typically be working at the 325 West Silver Spring Drive. There are 15 parking spaces available that are shared by Kawa Japanese Restaurant, City Animal Hospital, Lumos Wellness, and Bronzing Lounge.

Proposed signage is similar material-wise as that utilized by Lumos Wellness.

Community Development Director Stuebe stated that staff recommends that the Plan Commission grant use and occupancy approval for The

Bronzing Lounge to use and occupy the tenant space located at 325 West Silver Spring Drive, Suite 200 West, with the following requirements: 1) Signs are required to conform with the Glendale Sign Code; 2) All landscaping and lighting features being maintained and replaced and/or replenished whenever necessary pursuant to tenant/owner lease responsibilities; 3) Dumpster enclosure(s) in compliance with 13.1.144 of the Zoning Code; 4) All City of Glendale zoning, building, and fire codes being carried out to the satisfaction of the Building Inspector and the North Shore Fire Department; 5) Written certification by owner of compliance with State of Wisconsin requirements for physically disabled parking prior to issuance of Occupancy Permit.

Sarah Sinclair introduced herself as owner operator of The Bronzing Lounge, and shared that this is the second Bronzing Lounge, with the first located in Wauwatosa.

Motion by Comm. Cole, seconded by Comm. Wadzinski, that the Plan Commission grant use and occupancy approval for The Bronzing Lounge to use and occupy the tenant space located at 325 West Silver Spring Drive, Suite 200 West, per the five requirements. Roll Call: Ayes: Mayor Kennedy, Commissioners Cole, Lippow, Wadzinski, and Shaw. Noes: None. Abstain: None. Motion carried unanimously.

III. 6:00 PM Plan Commission Public Hearing: Conditional Use Permit Review, Pet-U, 727 West Glendale Avenue. Review and approve Conditional Use Permit for doggy daycare, as well as training and boarding of canines.

Mr. Stuebe stated that the Plan Commission Report was distributed to the Plan Commissioners and Applicant and is incorporated herein as follows:

Pet-U (Pet University 3, LLC) seeks Plan Commission Conditional Use Permit review approval for its use and occupancy within a tenant space of about 5,100 square-feet located at 727 West Glendale Avenue (from 2006 to 2016 the occupant was a similar use named Dog Tired Daycare that had two successive owners). Pet-U represents itself as a dog training oriented dog daycare, dog training, dog boarding, dog nutrition, dog grooming enterprise, as well as limited accessory/ancillary retail sales of related pet supplies and products. The premises is located within the B-1, Sub-Area P, Zoning District and, under Section 13.1.34, Plan Commission approval is required.

Sprecher Brewing Company and SBC Glendale Ave, LLC (AKA Sprecher), now owns all three properties located within the B-1, P District, which includes 701, 725, and 727 West Glendale Avenue.

Photograph of 701 West Glendale Avenue.



General Site Organization

The Aerial Photograph below shows the location of Pet-U in the southwest corner of the 727 West Glendale Avenue facility, as well as the location of the now vacant former Brady Company office (most recently Emjay Corporation), Sprecher Brewing, and single-family residential along West Glendale Avenue, as well as the Evergreen Cemetery to the west. Pet-U is located about 900 feet south of Glendale Avenue and there is about 700 feet of separation from the residential properties to the Pet-U entrance. There is outside play enclosure adjacent to the Pet-U tenant space.

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Aerial Photograph of 701,725, and 727 West Glendale Avenue.

Pet-U is located at the bottom left corner of the most southerly building.



Photograph of 701, 725, and 727 West Glendale Avenue Environs.



Photograph of former Brady Company Headquarters located at 725 West Glendale Avenue Environs.



Pet-U Operations

Pet-U represents itself as a specialized provider of dog training, dog day care, dog boarding, dog grooming, and dog nutrition with limited (accessory retail) sales of related items. Day care is stated to comprise about 65 Percent of revenue and the goal is to host as many as 70 dogs. The remaining 35 percent of revenue is from boarding, training, minor grooming (baths), and accessory sales of pet related items such as food, treats, and training collars. Boarding is provided for as many as 30 dogs.

Business Hours, Number of Employees, and Parking Places

Regular business hours are Monday through Friday from 6:30 a.m. to 7:00 p.m., Saturday and Sunday from 8:00 a.m. to 9:00 a.m. and 5:00 p.m. to 6:00 p.m. Pet-U will have one and as many as eight employees present.

Parking availability is ample and most of the parking usage is for the several employees, client drop-offs and pick-ups, and

any vendor/supplier deliveries. Pet-U indicates that it has use of about 100 parking spaces.

Photograph of Pet-U Entrance at 727 West Glendale Avenue.



Photograph of Pet-U Entrance at 727 West Glendale Avenue.



Community Development Director Stuebe stated that staff recommends that the Plan Commission grant Conditional Use Permit review approval for Pet-U (Pet University 3, LLC), a canine dog training oriented dog day care, dog training, dog boarding, dog grooming, and dog nutrition enterprise with accessory retail sales of related pet related products, in the tenant space located at 727 West Glendale Avenue, with the following requirements: 1) Retail sales are restricted to the sale of ancillary products within the reception area that comprises an area of about 220 square feet (20 feet by 11 feet) as indicated in the floor plan; 2) Signs are required to conform with the Glendale Sign Code; 3) All landscaping

and lighting features being maintained and replaced and/or replenished whenever necessary pursuant to tenant/owner lease responsibilities; 4) Dumpster enclosure(s) in compliance with 13.1.144 of the Zoning Code; 5) All City of Glendale zoning, building, and fire codes being carried out to the satisfaction of the Building Inspector and the North Shore Fire Department; 6) Written certification by owner of compliance with State of Wisconsin requirements for physically disabled parking prior to issuance of Occupancy Permit.

Dennis Trzcinski introduced himself as representing Pet-U, and briefly described what services that Pet-U provides for pet owners.

The Mayor opened the Public Hearing to public comment. Mayor Kennedy asked twice if there were any persons present who wished to be heard and there were not any responses, so the Public Hearing was closed with a motion by Comm. Shaw, seconded by Comm. Wadzinski, that was unanimously approved.

There were several questions from the Plan Commission to which Mr. Trzcinski had responses.

Motion by Comm. Lippow, seconded by Comm. Wadzinski, that the Plan Commission grant Conditional Use Permit review approval for Pet-U (Pet University 3, LLC), a canine dog training oriented dog day care, dog training, dog boarding, dog grooming, and dog nutrition enterprise with accessory retail sales of related pet related products, in the tenant space located at 727 West Glendale Avenue, per the six requirements. Roll Call: Ayes: Mayor Kennedy, Commissioners Cole, Lippow, Wadzinski, and Shaw. Noes: None. Abstain: None. Motion carried unanimously.

ADJOURNMENT.

Motion by Comm. Shaw, seconded by Comm. Cole, to adjourn the Plan Commission until the date of its next regular meeting to be held at 6:00 p.m., Tuesday, February 6, 2018. Roll Call: Ayes: Mayor Bryan Kennedy, Commissioners Cole, Lippow, Wadzinski, and Shaw. Noes: None. Motion carried unanimously.

Todd M. Stuebe, Director of Community Development

Respectfully Submitted: Wednesday, January 10, 2018

Agenda

ORIGINAL



CITY OF GLENDALE
COMMUNITY DEVELOPMENT DEPARTMENT
5909 NORTH MILWAUKEE RIVER PARKWAY
GLENDALE, WISCONSIN 53209-3815
PHONE: (414) 228-1704 or (414) 228-1744
FAX: (414) 228-1725
WWW.GLENDALE-WI.ORG

PLAN COMMISSION REVIEW APPLICATION

Application Fee: \$300

APPLICANT INFORMATION

Name of Applicant: Garrett Lenz
Legal Name of Business: Umansky UMG, LLC
Name of Business Owner (if different from Applicant): Danny Umansky
Applicant Address (City, State, and Zip Code): 4750 N 132nd St, Butler, WI 53007

Office Phone Number: 262-790-8115 Cell: _____ Fax: 262-790-4755
Applicant E-Mail: glenz@berghammer.com
Applicant Signature: Garrett Lenz Date: 01/17/2018

PROPERTY INFORMATION

Property Address: 1400 W Silver Spring Dr Tax Key Number: 168-9114-001 Zoning District: Nicolet High School District
Property Owner (if different from Applicant): Umansky UMG, LLC
Property Owner Address (City, State, and Zip Code): 1400 West Silver Spring Drive
Glendale, WI 53209
Property Owner Phone: 916-479-1580 Cell: 916-479-1580 Fax: None
Property Owner E-Mail: vgregory@umanskyautogroup.com
Property Owner Signature: _____ Date: 1-17-18

PROPOSAL INFORMATION

Name of Business and Type of Business/Use (Please be specific): Umansky Motors
Mercedes-Benz Auto Dealership
Total Building Area: 64,391 SF To Be Occupied Area: 64,391 SF
Lot Size: Depth: 960' Width: 300' Area: 6.64 Acres
Previous Occupant in To Be Occupied Space: _____
Other Uses of This Site: N/A
Total Number of Parking Spaces: 700 Parking Spaces Available to Tenancy: 700
Business Hours (Days and Hours of Operation): M-F 8:30-20:00; Sat 8:30-18:00; Sun Closed
Total Number of Employees: 112 Maximum Number of Employees at Site at One Time: 112
Primary Contact Person for This Project: John Pszonak
Primary Contact Phone: (262) 790-8137 Cell: 414-406-7318 Fax: 262-790-4755
Primary Contact E-Mail: johnp@berghammer.com

CITY OF GLENDALE USE ONLY

Application Fee: 300 Date of Application: 1/18/18 Time: _____ Received by with date: _____ Tentative Hearing Date: _____
G:\COMMON\Community Development Planning Department\Plan Commission Administration (2-4-4)\04 Conditional Uses\01 CU Procedures\CU Application.doc



GENERAL
CONTRACTING

January 17, 2018

CONSTRUCTION
MANAGEMENT

City of Glendale
Community Development Department
5909 North Milwaukee River Parkway
Glendale, Wisconsin 53209

DESIGN/BUILD
CONSTRUCTION

RE: Umansky Mercedes Benz North Renovation

Dear Plan Commission Review,

Please see the information listed below and the enclosed documents pertaining to the Umansky Mercedes Benz North Renovation the Plan Commission's review.

1. Name of Business, Address	Umansky Auto Group 1400 W. Silver Spring Dr. Glendale, WI 53209
2. Name of Owner, Address	Umansky UMG, LLC 2611 Ridgeway Rd. Memphis, TN 38119
3. Name of Applicant	Berghammer Construction
4. Legal Description of Property	Survey Attached
5. Tax Key	Parcel # 168-9114-001
6. Zoning of Property	Commercial
7. Lot Size	960' Depth 300' Width 6.64 Acres
8. Dimensions and All Levels (Floors) of Building	Two (2) Floors
9. Total Floor Area	64,391 SF
10. Specific Uses of the Entire Property and Buildings	Retail of luxury car sales and service for multiple auto brands.
11. Minimum and Maximum Numbers of Employees	112
12. Days of Operation	Monday - Friday, Saturday
13. Hours of Operation	Monday to Friday 0830 to 2000 Saturday 0830 to 1800
14. Signage	Yes, Mercedes Logos
15. Conditions Imposed by State or County for Use	None
16. Security Fencing	Yes
17. Potential Noise, Odor, Glare, Fire Hazards or Smoke Problems	No
18. Proposed Food Services	No
19. Did the State Approve Interior Building Plans	City Stated the State Didn't Need to Based on the Size of Project - Local Approval Only
20. What Provisions are Being Made for Fire Protection and Human Safety?	Building Fully Sprinkled

Phone 262-790-4750
Facsimile 262-790-4755

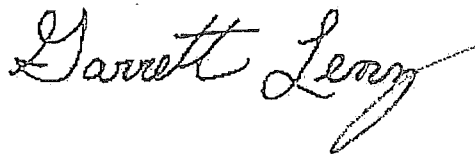
4750 North 132nd Street
Butler, WI 53007-0918
www.berghammer.com

Plan Commission
January 17, 2018
Page 2 of 2

21. Rules and Regulations of Property	N/A
22. Timetable for Construction Completion and Anticipated Grand Opening	Anticipated construction to Last Four (4) Months Opening on 6/30/2018
23. Proposed On - Site Security Measures	Fence, Signage, Cameras, Lighting, Doors and Locks
24. Anticipated Number of Facility Users and Viewers at One Time	50 Customers
25. Any Other Pertinent Information	No
26. Business Plan	Existing Business - Retail of luxury car sales and service for multiple auto brands.
27. Entire Grant Application and County Issued RFP	N/A
28. Name, Signature, and Date on Plan of Operation Document	Included

Please let us know if we are to proceed with this work as soon as possible. Please feel free to contact me at 262-790-8115 or glenz@berghammer.com or John Pszonak at 414-406-7318 or johnp@berghammer.com at your convenience for any clarifications.

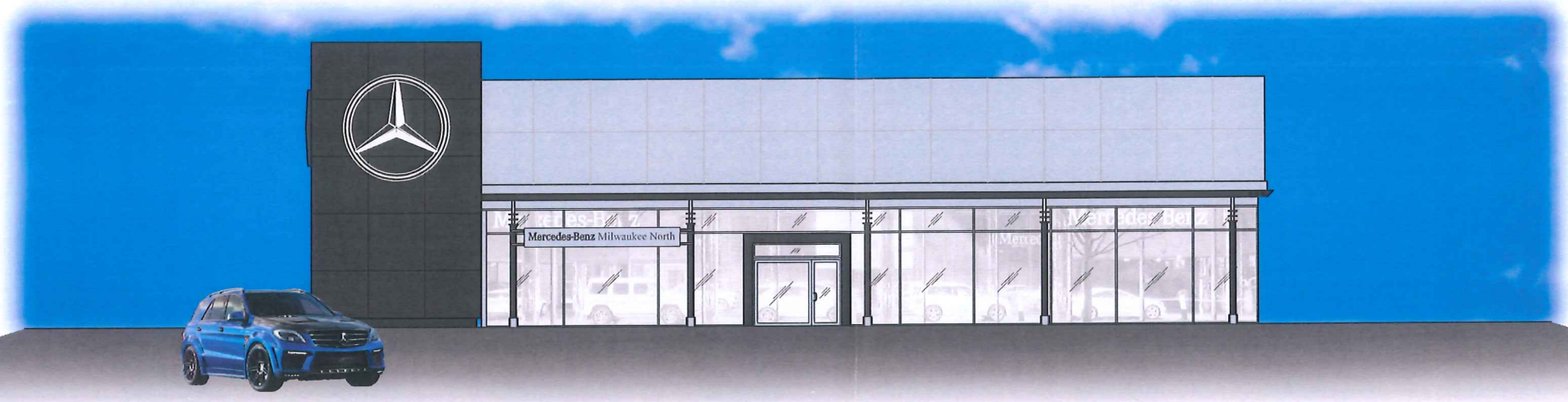
Sincerely,
BERGHAMMER CONSTRUCTION CORPORATION



Garrett Lenz
Assistant Project Manager - Berghammer Construction

cc: Jim Parks, Berghammer Construction
John Pszonak, Berghammer Construction
Vince Gregory, Umansky Auto Group
Marcus Denton, Denton Architecture

UMANSKY



Mercedes-Benz | Milwaukee North

DA DENTON ARCHITECTURE

CODE INFORMATION

APPLICABLE CODES

BUILDING CODE:	2009 INTERNATIONAL BUILDING CODE (IBC) w/WISCONSIN AMENDMENTS
MECHANICAL CODE:	2009 INTERNATIONAL MECHANICAL CODE (IMC) w/WISCONSIN AMENDMENTS
PLUMBING CODE:	2009 INTERNATIONAL PLUMBING CODE (IPC) w/WISCONSIN AMENDMENTS
FIRE CODE:	2009 INTERNATIONAL FIRE CODE (IFC) w/WISCONSIN AMENDMENTS
FUEL & GAS CODE:	2009 INTERNATIONAL FUEL & GAS CODE (IFGC) w/WISCONSIN AMENDMENTS
ENERGY CONSERVATION:	2009 INTERNATIONAL ENERGY CONSERVATION (IECC) w/WISCONSIN AMENDMENTS
EXISTING CODE:	2009 INTERNATIONAL EXISTING BUILDING CODE (IEBC) w/WISCONSIN AMENDMENTS
ELECTRICAL CODE:	2011 NATIONAL ELECTRICAL CODE (NEC) w/WISCONSIN AMENDMENTS

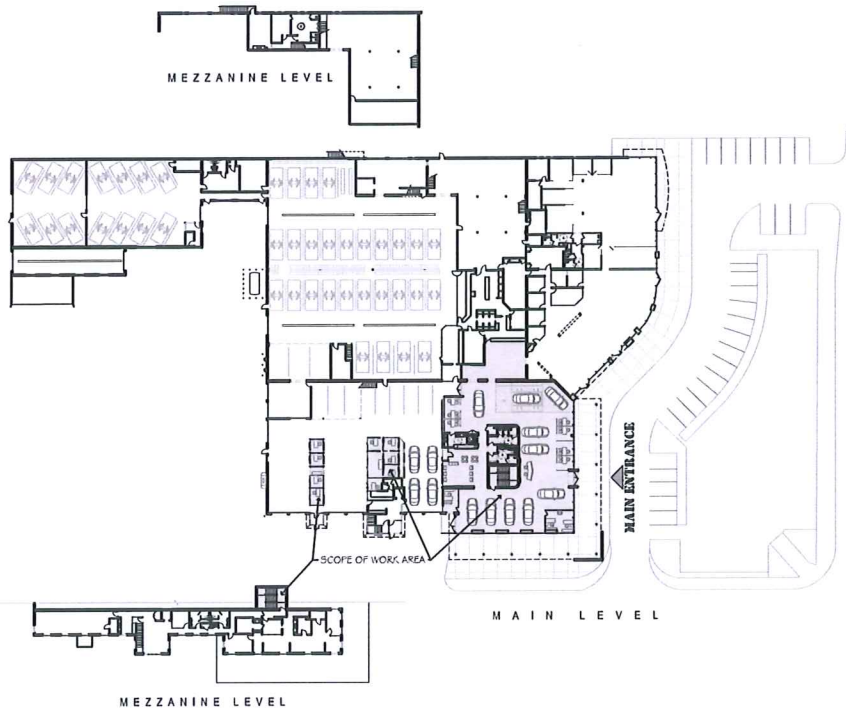
APPLICABLE LAWS

ACCESSIBILITY LAW:	AMERICANS WITH DISABILITY ACT ACCESSIBILITY GUIDELINES REVISED SEPTEMBER 15 2010
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PERMIT INFORMATION

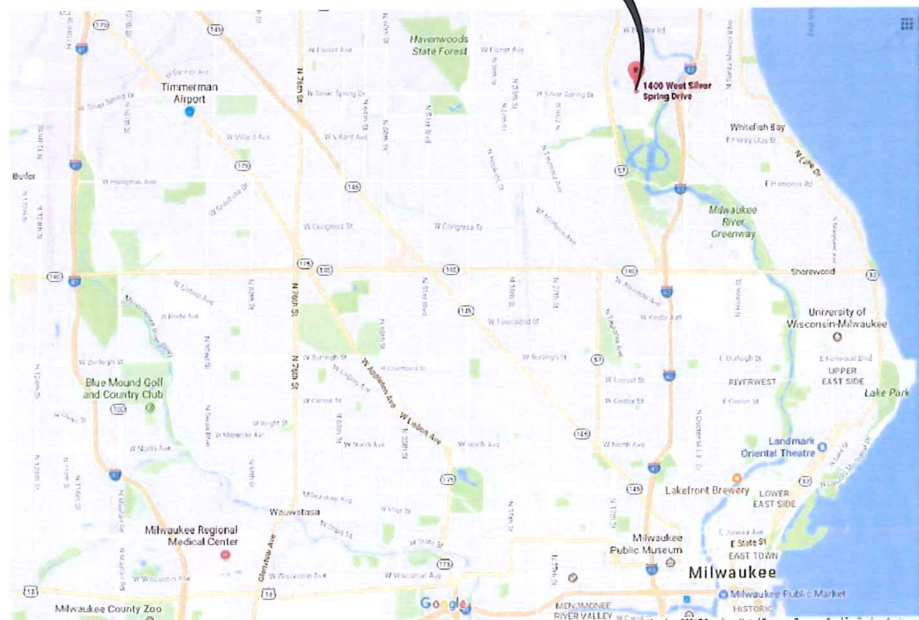
PROJECT ADDRESS	
STREET NUMBER:	1400
STREET NAME:	WEST SILVER SPRINGS DRIVE
CITY:	CLINTONVILLE
STATE:	WISCONSIN
ZIP:	53209
DESCRIPTION	
USE OF BUILDING:	OFFICE
SPRINKLER SYSTEM:	PER NFPA 13
CONSTRUCTION TYPE:	I-B (w/Mezzanine)
TOTAL HEIGHT:	30'0" ± (1 Story w/Mezzanine)
CLASS OF WORK:	REMODEL EXISTING BUILDING
BUILDING USE:	BUSINESS (B)
DESCRIPTION OF WORK:	REMODEL EXISTING AUTOMOBILE DEALERSHIP FOR EXISTING MERCEDES-BENZ SALES OFFICES, INCLUDING ALL NEW INTERIOR FINISHES AND NEW EXTERIOR FACADE

TOTAL BUILDING PLAN



VICINITY MAP

DEALERSHIP LOCATION



DRAWING INDEX

A ARCHITECTURAL (18 DWGS)

1	A00	INDEX & TITLE SHEET
2	A1.1	ARCHITECTURAL SITE PLAN
3	A2.1	TOTAL BUILDING PLAN
4	A2.2	DEMOLITION FLOOR PLAN
5	A2.3	FINISH FLOOR PLAN
6	A2.4	CONSTRUCTION PLAN
7	A2.5	ROOF PLAN
8	A3.1	EXTERIOR ELEVATIONS
9	A4.1	DETAIL WALL SECTIONS
10	A5.1	PLAN DETAILS
11	A5.2	PLAN DETAILS
12	A5.3	EXIT STAIR DETAILS
13	A5.4	PLAN DETAILS
14	A5.4	INTERIOR ELEVATIONS
15	A5.4	PLAN DETAILS
16	A6.1	WALL/DOOR SCHEDULE

B STRUCTURAL ENGINEERING (8 DWGS)

1	S2.0	FOUNDATION PLAN
2	S2.1	MEZZANINE / LOW ROOF FRAMING
3	S2.2	HIGH ROOF FRAMING PLAN
4	S5.0	STRUCTURAL DETAILS
5	S5.10	STRUCTURAL DETAILS
6	S5.11	STRUCTURAL DETAILS
7	S9.0	GENERAL NOTES
8	S9.1	SCHEDULES

C MECHANICAL ENGINEERING (3 DWGS)

1	M100	MECHANICAL NEW WORK PLAN
2	M100	MECHANICAL DEMOLITION PLAN
3	M1.0	MECHANICAL LEGEND & SCHEDULES

D PLUMBING / FIRE PROTECTION (4 DWGS)

1	FP101	SCHEMATIC FIRE PROTECTION PLAN
2	P100	FOUNDATION PLUMBING PLAN
3	P200	PLUMBING ISOMETRICS
4	PD100	PLUMBING DEMOLITION PLAN

E ELECTRICAL ENGINEERING (7 DWGS)

1	E100	LIGHTING PLAN
2	E200	ELECTRICAL PLAN
3	E300	LIGHTING SCHEDULES & DETAILS
4	E400	ELECTRICAL SCHEDULES
5	E500	ELECTRICAL DETAILS
6	ED100	ELECTRICAL DEMOLITION PLAN
7	EL	ELECTRICAL NOTES

DRAWING TOTAL RECAP

A	ARCHITECTURAL	18 DWGS
B	STRUCTURAL ENGINEERING	8 DWGS
C	MECHANICAL ENGINEERING	3 DWGS
D	PLUMBING / FIRE PROTECTION	4 DWGS
E	ELECTRICAL ENGINEERING	7 DWGS
TOTAL:		38 DWGS

ARCHITECTURE
DENTON ARCHITECTURE
1052 OAKHAVEN ROAD
MEMPHIS TN 38119
OFF. 901.761.3905
FAX. 901.761.4103

ENGINEERING
HARWOOD ENGINEERING
CONSULTANTS
255 NORTH 21ST STREET
MILWAUKEE WI 53233
OFF. 414.475.5554
FAX. 414.773.9299

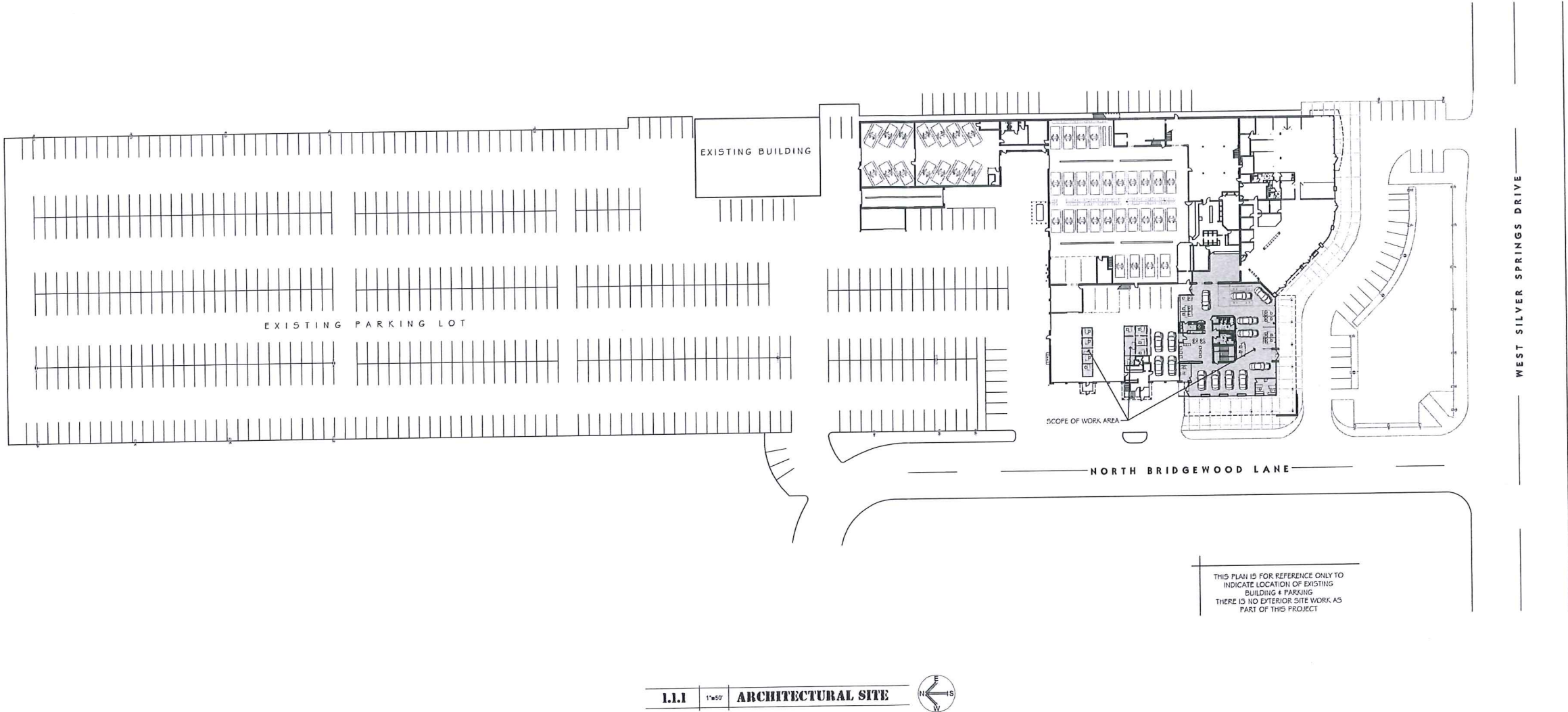
OWNER
UMANSKY AUTOMOTIVE GROUP
2611 RIDGEWAY ROAD
MEMPHIS TN 38119
OFF. 901.312.6191
FAX. 901.881.4143

Mercedes-Benz
MILWAUKEE NORTH



1400 West Silver Springs Drive • Milwaukee Wisconsin 53209





REVISIONS

DENTON ARCHITECTURE
1052 Oakhaven Road | Memphis TN 38119 | 901.761.3395 FAX 761.4103

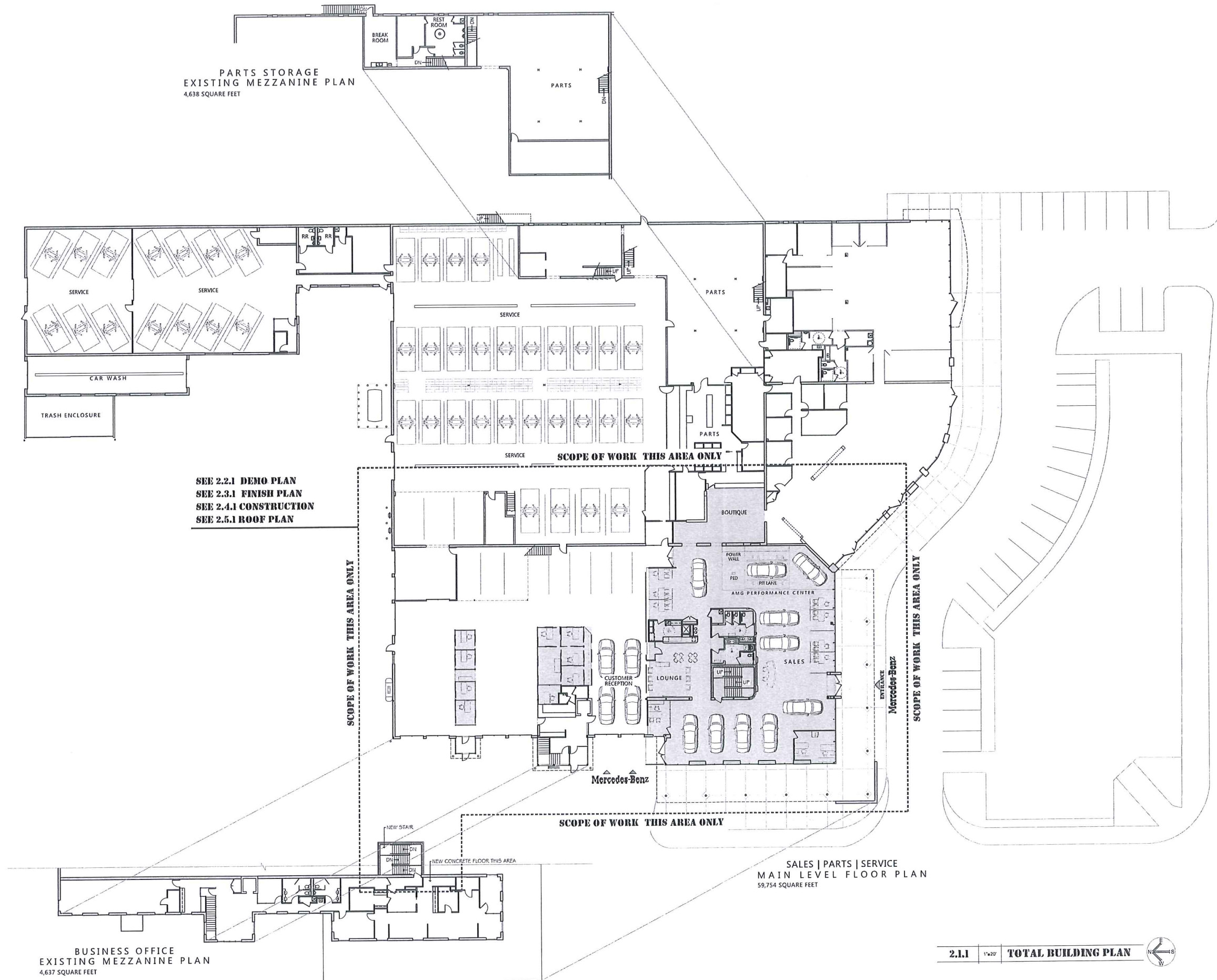
Mercedes-Benz
MILWAUKEE NORTH
1400 West Silver Springs Drive • Milwaukee Wisconsin 53209



BY: MSD
REF: DU/UMK
PROJ: 16095
DATE: 17 NOV 2017

A.I.A.
16
SITE PLAN

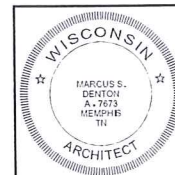
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REVISIONS

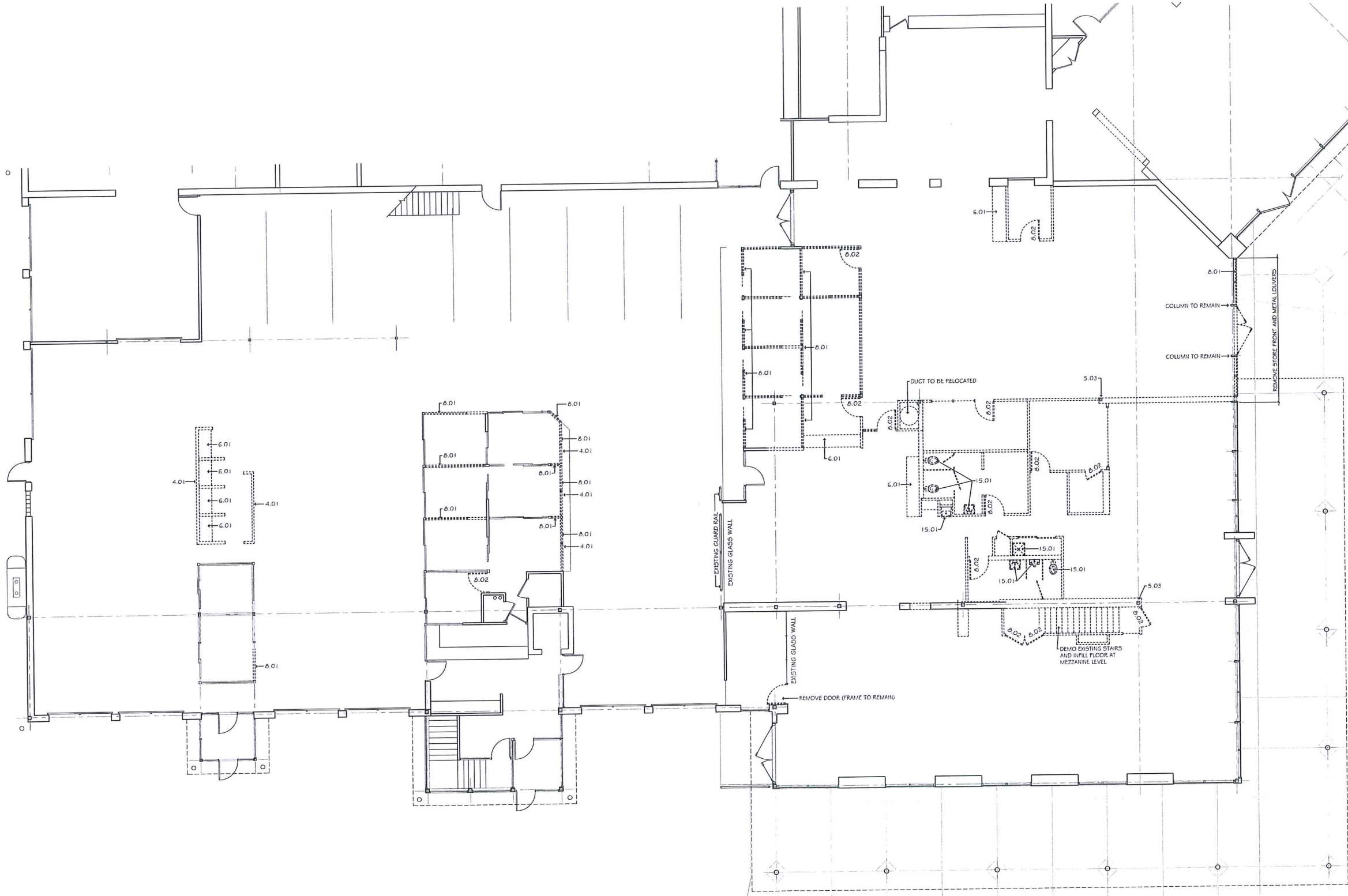
DENTON
ARCHITECTURE
1652 Oaklawn Road | Memphis TN 38119 | 901.761.5905 FAX 901.403

Mercedes-Benz
MILWAUKEE NORTH
1400 West Silver Springs Drive • Milwaukee Wisconsin 53209



BY: MSD
REF: DU/UMC
PROJ: 16095
DATE: 17 NOV 2017
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16
TOTAL BUILDING

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2.2.1 1/8"=1' DETAIL DEMO PLAN



DEMOLITION NOTES

01 GENERAL DATA

01 - GENERAL CONTRACTOR IS RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL OF ALL BUILDING MATERIALS, MECHANICAL EQUIPMENT, PLUMBING FIXTURES, ETC. GENERAL CONTRACTOR TO COMPLY WITH ALL LOCAL CODES AND LAWS FOR PROPER DISPOSAL OF ALL DEMOLITION ITEMS.

02 - THE ARCHITECT HAS NOT, NOR INTENDS, TO CONDUCT ANY INVESTIGATIONS AS TO THE PRESENCE OF HAZARDOUS MATERIALS, WITHIN THE COUPLES OF THIS PROJECT. THE ARCHITECT ACCEPTS NO RESPONSIBILITY FOR IDENTIFICATION, REMOVAL OR ANY EFFECTS FROM THE PRESENCE OF POSSIBLE HAZARDOUS MATERIALS.

03 CONCRETE

01 - GROUND LEVEL: CONTRACTOR TO SAW CUT SLAB FOR NEW UNDERGROUND UTILITIES, FOOTINGS, ETC. THEN BACK FILL WITH ENGINEERED FILL COMPACTED PER SOILS REPORT FOUR NEW CONCRETE FLOOR SLAB TO MATCH ADJACENT THICKNESS. ALL SAW CUTTING, JACK HAMMERING, AND REMOVAL MUST BE DONE BETWEEN THE HOURS OF 9:00 PM AND 8:00 AM.

02 - FOR UPPER FLOOR LEVELS: CONTRACTOR TO SAW CUT SLAB & DECK FOR REMOVAL. ALL SAW CUTTING, AND REMOVAL MUST BE DONE BETWEEN THE HOURS OF 9:00 PM AND 8:00 AM.

04 MASONRY

01 - DEMO EXISTING BLOCK WALLS COMPLETELY INCLUDING ANCHORS, REINFORCING, ETC. REPAIR FLOOR SLAB AS NEEDED TO MAINTAIN SMOOTH LEVEL FINISH.

05 METALS

01 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE WHICH MAY OCCUR DURING DEMOLITION OR CONSTRUCTION TO THE BUILDING OR ANY OTHER RELATED PROPERTY.

02 - THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THE BUILDING DURING CONSTRUCTION, IF THE CONTRACTOR HAS ANY DOUBT ABOUT ANY ITEM HE SHOULD CONTACT THE STRUCTURAL ENGINEER OR ARCHITECT PRIOR TO PROCEEDING.

03 - REMOVE EXISTING STRUCTURAL COLUMN AFTER NEW BEAMS & COLUMNS HAVE BEEN INSTALLED AS PER STRUCTURAL DRAWINGS. COLUMN TO BE REMOVED COMPLETELY WITH NO PARTS OF THE COLUMN OR ANCHOR BOLTS EXTENDING ABOVE FLOOR SLAB.

06 WOOD/PLASTICS

01 - REMOVE MILLWORK ITEMS AS SHOWN ON DRAWINGS AND DISPOSE OF PROPERLY. REPAIR FLOORING OR WALLS AS NEEDED.

08 DOORS & WINDOWS

01 - REMOVE EXISTING GLASS & ALUMINUM FRAME SYSTEM FROM FINISHED FLOOR TO TOP OF SYSTEM AND ALL ASSOCIATED ANCHORS AND FASTENERS.

02 - REMOVE EXISTING DOOR, FRAME, HARDWARE, ANCHORS, ETC.

09 FINISHES

01 - REMOVE GYPSUM BOARD, RIGID INSULATION, METAL STUDS, WOOD BLOTTING, ETC. THROUGHOUT ENTIRE RENOVATED AREA.

02 - REMOVE GYPSUM BOARD PURING AND METAL STUDS FROM ALL EXTERIOR AND INTERIOR STRUCTURAL CONCRETE COLUMNS THROUGHOUT.

03 - REMOVE ALL INTERIOR WALLS (AS SHOWN) COMPLETELY FROM CONCRETE FLOOR SLAB TO ROOF DECK, INCLUDING ALL GYPSUM, STUDS, FASTENERS, ETC.

15 MECHANICAL

01 - REMOVE PLUMBING FIXTURE AND ALL ASSOCIATED ITEMS AND CAP PLUMBING AT SLAB AS PER CODE.

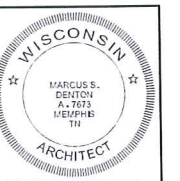
16 ELECTRICAL

01 - REMOVE ALL DEMO ELECTRICAL OUTLETS, SWITCHES, BOXES, WIRING, CONDUITS, ETC. FULLY BACK TO MAIN ELECTRICAL PANELS.

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BY: MSD Fb
REF: DU/UMK W
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A2.2
16
DEMO PLAN

		PARTIAL GROUND LEVEL
2.3.1	1/8"=1'	FINISH FLOOR PLAN

FINISH LEGEND

F1

B2

W1

WALL

BASE

FLOOR

SYMBOL LOCATED IN ROOM
INDICATES FINISHES FOR ENTIRE ROOM (unless noted otherwise)

X

INDICATES EXISTING FINISH TO REMAIN

**** CRITICAL NOTE ****
GENERAL CONTRACTOR TO SUBMIT SAMPLES OF ALL FINISHES TO TENANT PRIOR TO ORDERING OR INSTALLING. TENANT MUST SIGN THIS DRAWING AND APPROVE ALL SAMPLES PRIOR TO ANY INSTALLATION.

FLOOR

F1

MFG: CARPET
MFG: INTERFACE FLANNEL 242' 50CM
COLOR: 6458 CHARCOAL

F2

MFG: PORCELAIN TILE (UNPOLISHED 24X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES GENERAL'S GRAY

F3

MFG: PORCELAIN TILE (UNPOLISHED 24X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES BLACK SWAN

F4

MFG: PORCELAIN TILE (POLISHED 24X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES GENERAL'S GRAY

F5

MFG: PORCELAIN TILE (POLISHED 24X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES BLACK SWAN

F6

MFG: EXISTING WOOD FLOOR
MFG: EXISTING
COLOR: EXISTING

F7

MFG: PORCELAIN TILE WOOD LOOK (6X36)
MFG: DALTILE FOREST PARK FP256361P
COLOR: FOREST PARK FP25 SUMMER TREE

BASE

B1

MFG: WOOD (MAPLE)
SIZE: 1 1/4 SQUARE SOLID STOCK
COLOR: CLEAR SATIN FINISH

B2

MFG: PORCELAIN TILE (UNPOLISHED 4X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES GENERAL'S GRAY

WALL

W1

MFG: PAINT
MFG: SHERWIN WILLIAMS
COLOR: SW 7063 NEBULOUS WHITE

W2

MFG: PAINT
MFG: SHERWIN WILLIAMS
COLOR: SW 6256 TRICORN BLACK

W3

MFG: PAINT
MFG: SHERWIN WILLIAMS
COLOR: SW 7654 LATTICE

W4

MFG: PAINT
MFG: SHERWIN WILLIAMS
COLOR: SW 6668 SUNRISE

W5

MFG: GLASS WALL TILE (1"X6")
MFG: DALTILE COLOR WAVE CW19
COLOR: NINE IRON

W6

MFG: PORCELAIN TILE (UNPOLISHED 12X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES GENERAL'S GRAY

W7

MFG: PORCELAIN TILE (POLISHED 12X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES GENERAL'S GRAY

W8

MFG: PORCELAIN TILE (POLISHED 12X24)
MFG: DALTILE CROSSVILLE
COLOR: EMPIRE SERIES BLACK SWAN

MILLWORK

M1

MFG: COUNTER QUARTZ
MFG: DUPONT ZORQUA QUARTZ
COLOR: GALAXY BLACK

M2

MFG: CABINET PLASTIC LAMINATE
MFG: VILSONART
COLOR: 7909-60 FUSION MAPLE

M3

MFG: SCREEN PLASTIC LAMINATE
MFG: VILSONART
COLOR: 1955-60 BLACK

M4

MFG: WOOD
MFG: MAPLE
COLOR: CLEAR FINISH

DOORS

D1

MFG: DOOR
MFG: MAPLE
COLOR: CLEAR FINISH

D2

MFG: DOOR FRAME
MFG: SHERWIN WILLIAMS
COLOR: SW 7063 NEBULOUS WHITE

STAIRS

S1

MFG: RUBBER TREAD W/ INTEGRAL RISER
MFG: JOHNSONITE
STYLE/MODEL/COLOR:
BANROD TREAD/RESINER
VIMTR 32 PEBBLE WG
VU VISUALLY IMPAIRED INSERT

NOTE

GENERAL CONTRACTOR AND SUPPLIER TO CROSS CHECK PRODUCT INFORMATION. IF ANY OF THE INFORMATION IS CONFLICTING, NOTIFY ARCHITECT PRIOR TO ORDERING. ARCHITECT IS NOT RESPONSIBLE IF ANY ONE PIECE OF INFORMATION IS CORRECT

CODE

INTERIOR FINISH

CLASS A:

Flame spread 0-25; smoke developed 0-450

CLASS B:

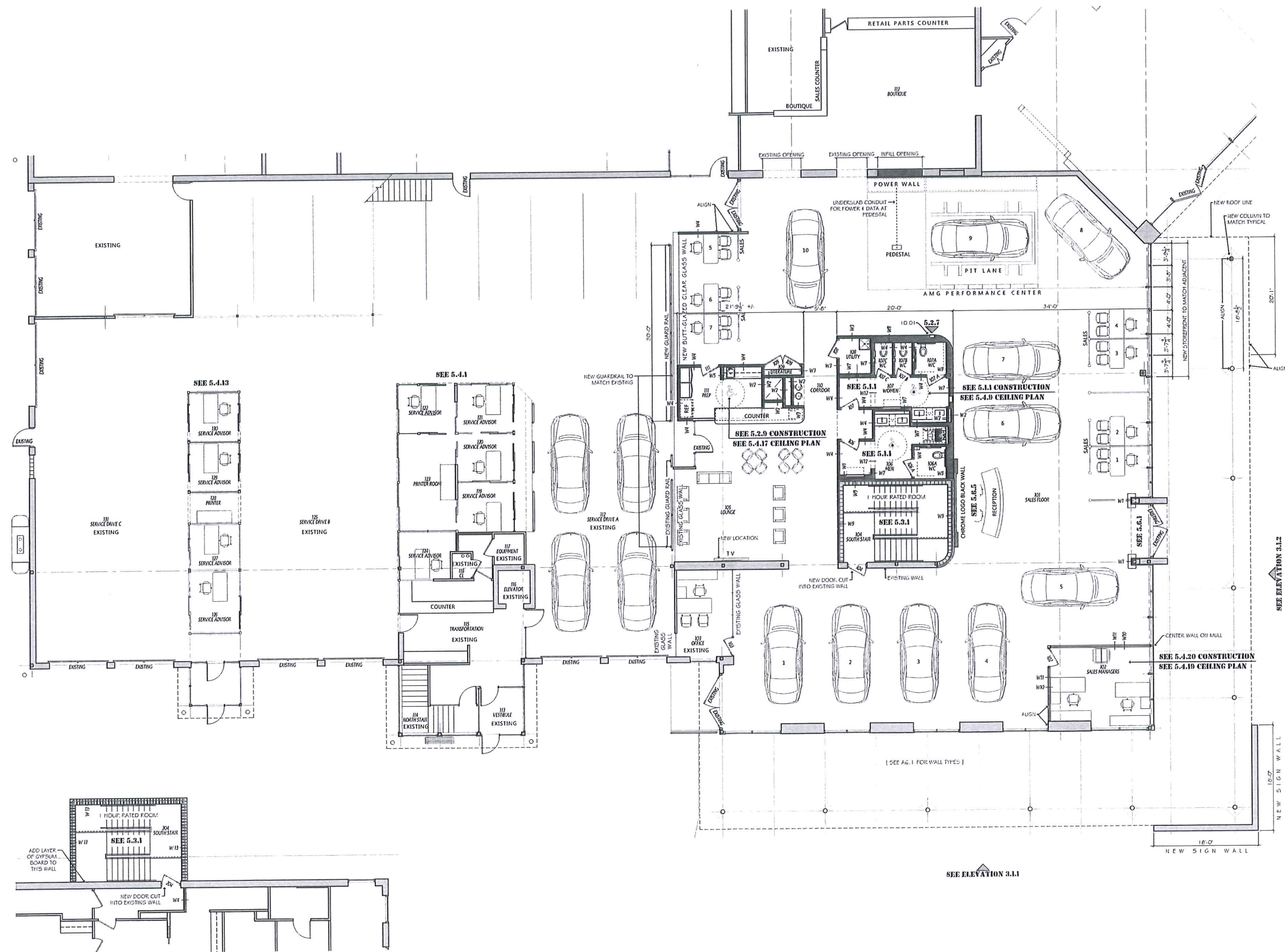
Flame spread 26-75; smoke developed 0-450

CLASS C:

Flame spread 76-100; smoke developed 0-450

SPRINKLED

Occupancy Group	Exit Enclosures Egress Passageway	Corridors	Rooms & Enclosed Spaces
A1-A2	B	B	C
A3-A4-A5	B	B	C
B - E - M	B	C	C
F	C	C	C
S	C	C	C



MERCEDES-BENZ CONSTRUCTION NOTES

- 30. CONCRETE**
00-NOTE: SEE 5-DWG(S) FOR ALL SIZES, FIN, REINFORCING, ETC.
01-FOOTING: SEE FOUNDATION FOOTING LINE
02-FLOOR SLAB: CONCRETE FLOOR SLAB
03-JOINT FILLER: (SEE 5-DWG(S))
04-PIER: CONCRETE PIER SEE 5-DWG(S) FOR REINFORCING
- 31. MASONRY**
01-8" CONCRETE BLOCK: 8" x 8" x 16" BLOCK
02-8" CONCRETE U-BLOCK: 8" x 8" x 16" U-BLOCK
03-8" MASONRY: FOR ALL SIZES, FIN, JOINT SMOOTH-FACE CONCRETE BLOCK
04-8" SMOOTH FACE CONCRETE BLOCK:
05-8" SMOOTH FACE CONCRETE U-BLOCK:
06-8" SMOOTH FACE CONCRETE U-BLOCK:
- 32. METALS**
00-NOTE: ALL EXPOSED, EXPOSED STEEL IS TO BE PAINTED (F77 THROUGHOUT) - SEE STRUCTURAL SPECIFICATIONS FOR ALL STEEL SIZES, FINISHES
01-1/8" STEEL: HAT CHANNEL
02-3/8" STEEL: STUD
03-1/2" STEEL: STUD
04-1/2" STEEL: STUD
05-1/2" STEEL: STUD
06-TUBE: STEEL TUBE
07-ANGLE: STEEL ANGLE
08-COLUMN: STEEL COLUMN
09-BEAM: STEEL BEAM
10-CHANNEL: STEEL CHANNEL
11-DECK: METAL DECK JOIST
12-BURJ: JOIST: STEEL BURJ
13-JOIST: JOIST: STEEL JOIST GIRDER
13-FLASHING: 2" GA. GALVANIZED CONTINUOUS
14-ACM PANEL: ACM FLAT PANEL RAINTSHEEN BY ALUMINUM
15-PROTECTION POST: STEEL PIPE FILLED WITH CONCRETE-48" ABOVE GRADE & 48" BELOW GRADE
16-PROTECTION POST: TO INCLUDE HOIST POST GUARDED BY ENCORE COMMERCIAL PRODUCTS
16-CONCRETE: CONCRETE TO BE SET WITH CORING AND REINFORCING TO TRIM CAP - INSTALL AS PER MANUFACTURE TO ALLOW FOR EXPANSION AND CONTRACTION (DO NOT SCREW FOR COVER TO BUILDING)

- 06 WOOD/PLASTICS
00- NOTE: ALL WOOD BLOCKING THROUGHOUT
BUILDING TO BE FIRE-TREATED (TYF)
01- 1 X: WOOD BLOCKING (CONT)
02- 2 X: WOOD BLOCKING (CONT)
03- PLY: 3/4" TREATED PLYWOOD BLOCKING

- 07-THERMAL/AcouSTIC PROTECTION**
01-SEALANT: MPE-1 BY MORTAR NET SOLUTIONS
02-EXPANSION JOINT: WUGUSTON COLOR: SEALANT TO MATCH ADJACENT MATERIAL COLOR
03-CONTROL JOINT: WUGUSTON COLOR: SEALANT TO MATCH ADJACENT MATERIAL COLOR
04-VAPOR BARRIER: 20 MIL THICK POLYVATL CHLORIDE SEE UNDER FLOOR VENTILATION SYSTEM
05-3 1/2" BATT: FIBERGLASS INSULATION (Min R-value=19)
06-6" BATT: FIBERGLASS INSULATION (Min R-value=19)
07-RIGID WALL INSULATION: 1-3/4" OWENS CORNING FOAMULAR HIGH-DEN OV FULP #73 (Min R-value=10)
08-6" BATT: FIBERGLASS INSULATION (Min R-value=19)
09-ROOF INSULATION: FIRESTONE ISO 95 + GL 3.5" (Min R-value=19)
10-ROOF BOARD: BOARD: 1/2" EUGARD HD COVER
11-ROOF MEMBRANE: MEMBRANE: 60 MIL FULLY ADHERED EPDM

- 09 FINISHES**
01- GYPSUM: 5/8" INTER. OF GYPSUM BOARD
02- CEILING GRID: ACOUSTICAL LAYIN CEILING GRID
03- EXT SHEATHING: 5/8" DENSLEMENT SHEATHING
 INSTALLED PER M/G REQUIREMENTS WITH LIQUID
 FLASHING TO SEAL JOINTS, FASTENERS, OPENINGS,
 PENETRATIONS, / TRANSITIONS
04- EIFS: EXTERIOR INSULATION FINISH SYSTEM/ ON
 STYROFOAM EXTRUDED POLYSTYRENE FOAM
 INSULATION (MIL Value = 5 PER INCH)

- 10 SPECIALTIES**
01 EXTINGUISHER CABINET
 MFG: LAXSENS
 MODEL: #2409 GR.
 DOOR: VERTICAL DUAL CLEAR
 EXTINGUISHER: PER NFPA 10
02 EXTINGUISHER WALL MOUNT
 HANGER TYPE: SURFACE WALL MOUNT
 EXTINGUISHER: PER NFPA 10

- 15 MECHANICAL**
00-NOTE: ALL MECHANICAL AND PLUMBING ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO ACQUISITION OR INSTALLATION.

- 00-NOTE: ALL ELECTRICAL ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO ANY PURCHASE OR INSTALLATION.

WALL LEGEND

-  — EXISTING WALL
 — NEW GYPSUM WALL
 — NEW BLOCK WALL

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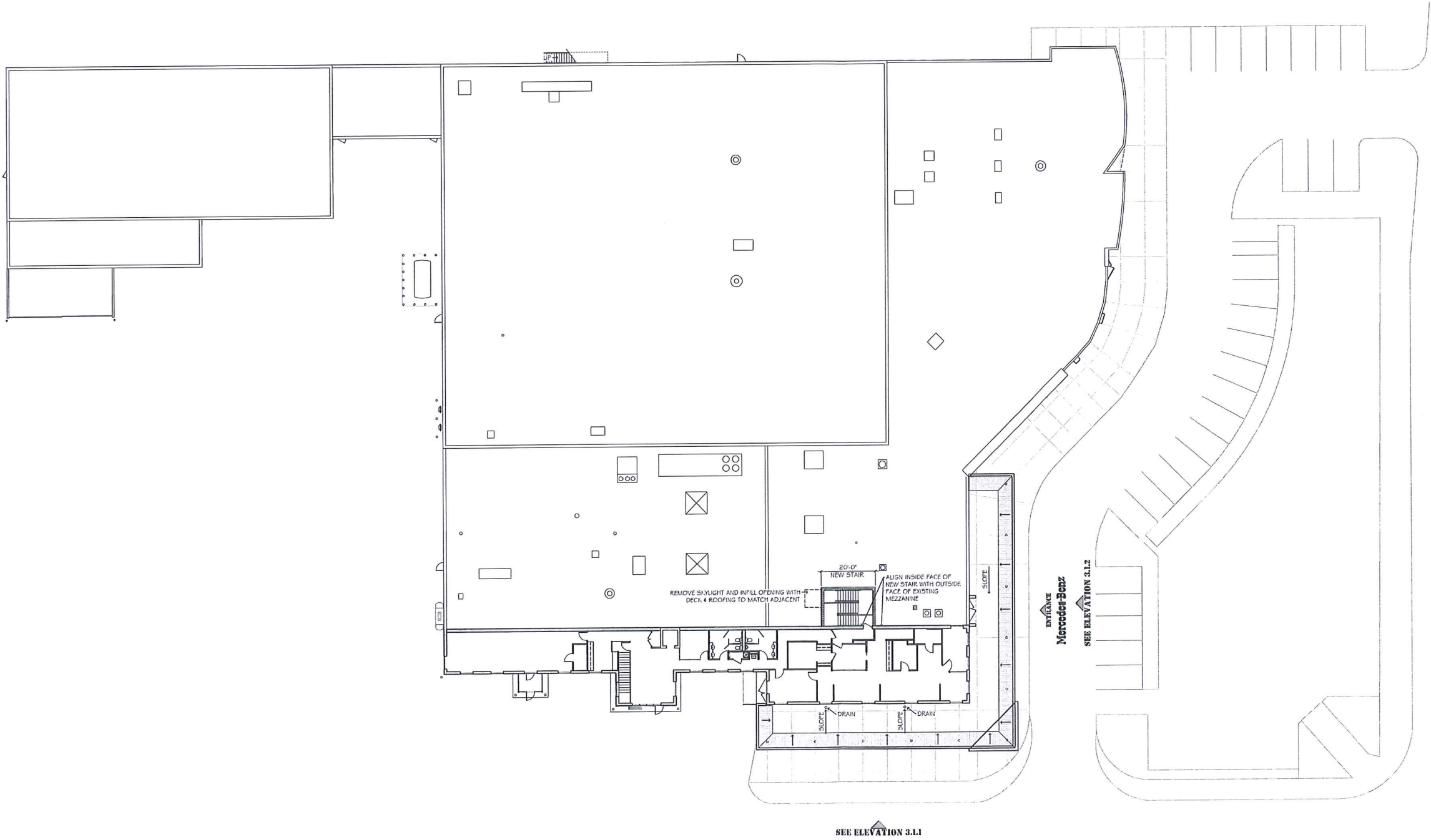
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CONSTRUCTION

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2.5.1 1"=20' BUILDING ROOF PLAN



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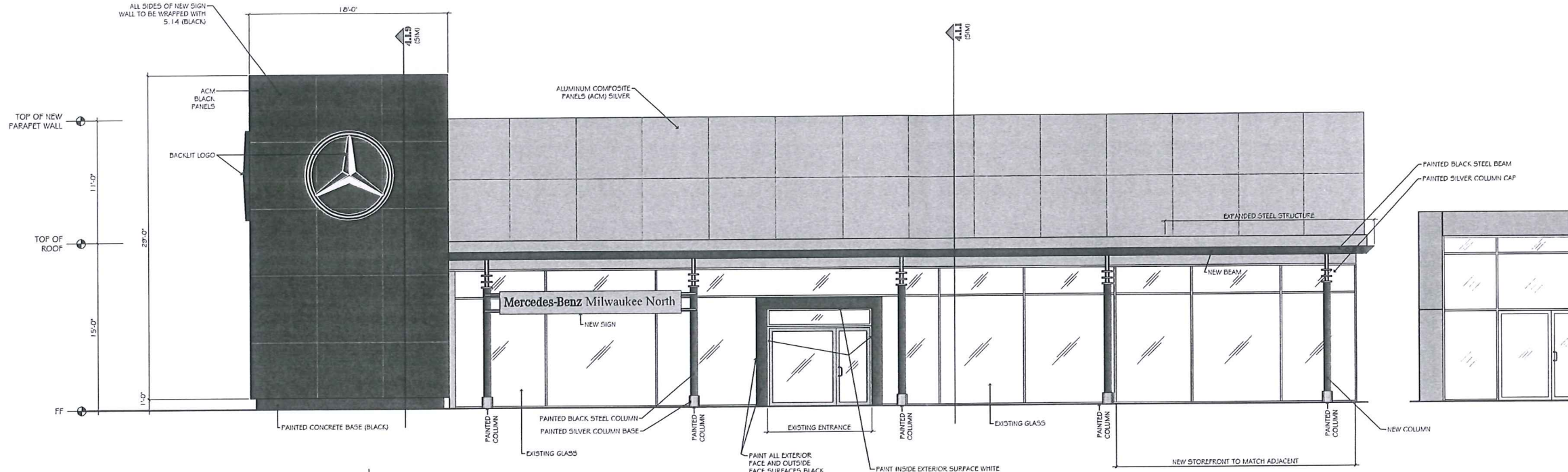
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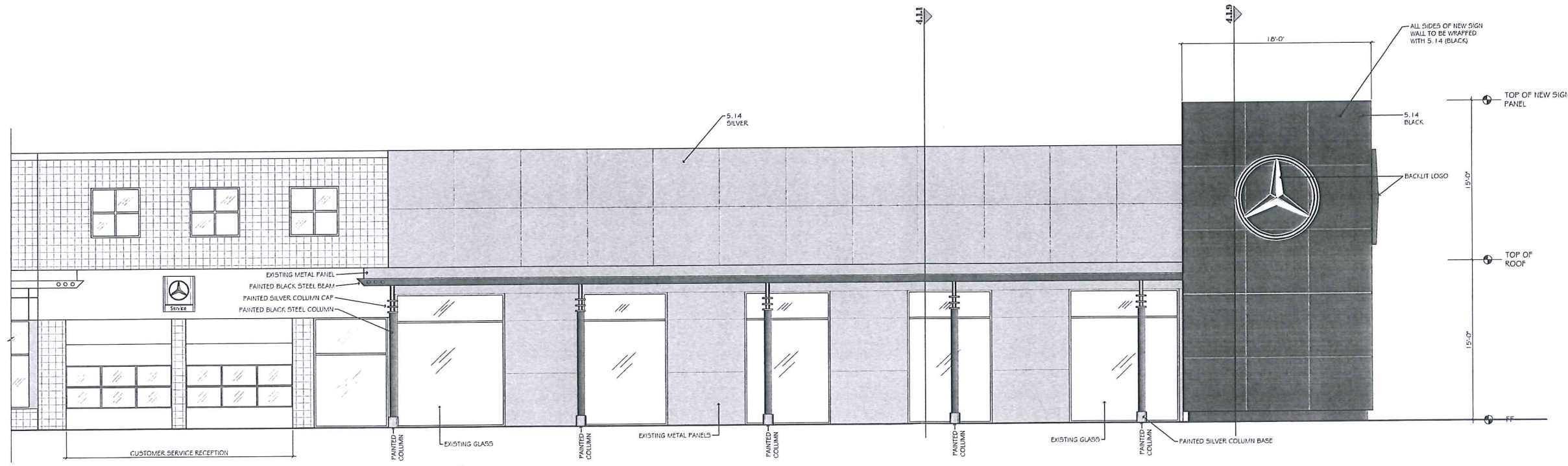
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ROOF PLAN

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3.1.2 3/16"=1' SOUTH ELEVATION



3.1.1 3/16"=1' WEST ELEVATION

- MERCEDES-BENZ CONSTRUCTION NOTES
- 03 CONCRETE
03.01 NOTE: SEE 5-DWG'S FOR ALL SIZES, PSI, REINFORCING, ETC.
03.02 FLOORING: BELLON FROST LINE
03.03 FLOOR SLAB: CONCRETE FLOOR SLAB (SEE 5-DWG'S)
03.04 JOINT FILLER: HYPERFLOID
03.05 PERI: CONCRETE PIER SEE 5-DWG'S FOR REINFORCING
- 04 MASONRY
04.01 8" CONCRETE BLOCK: 8" x 8" x 16" BLOCK
04.02 8" CONCRETE U-BLOCK: 8" x 8" x 16" U-BLOCK
04.03 8" SMOOTH FACE BLOCK: 8" x 8" x 16" SMOOTH FACE CONCRETE BLOCK
04.04 8" SMOOTH FACE U-BLOCK: 8" x 8" x 16" SMOOTH FACE CONCRETE U-BLOCK
- 05 METALS
05.01 NOTE: ALL EXTERIOR EXPOSED STEEL IS TO BE PAINTED (TYP THROUGHOUT) - SEE STRUCTURAL DRAWINGS FOR ALL STEEL SIZES
05.02 1 1/2" STEEL HAT CHANNEL
05.03 3/8" STEEL STUD
05.04 4" STEEL STUD
05.05 6" STEEL STUD
05.06 TUBE: STEEL TUBE
05.07 ANGLE: STEEL ANGLE
05.08 COLUMN: STEEL COLUMN
05.09 BEAM: STEEL BEAM
05.10 CHANNEL: STEEL CHANNEL
05.11 DECK: METAL ROOF DECK
05.12 BAR JOIST: STEEL BAR JOIST
05.13 JOIST GIRDER: STEEL JOIST GIRDER
05.14 FLASHING: 22 GA GALVANIZED CONTINUOUS
05.15 ACM PANEL: ACM PANEL RAINGREEN BY ALUCOROND
05.16 PROTECTION POST: C STEEL PIPE FILLED WITH CONCRETE-48" ABOVE GRADE 4'4" BELOW GRADE (TYP) - ALL PROTECTION POST TO INCLUDE HOPE POST GUARD BY ENCORE COMMERCIAL PRODUCTS INC
05.17 COPING: PERLOCK 150 PARAPET WALL COPING ANODIZED COLOR TO MATCH CAP - INSTALL AS PER MANUFACTURE TO ALLOW FOR EXPANSION AND CONTRACTION (DO NOT SCREW TOP COVER TO BUILDING)
- 06 WOOD/PLASTICS
06.01 NOTE: ALL WOOD BLOCKING THROUGHOUT BUILDING TO BE FIRE-TREATED (TYP)
06.02 1X WOOD BLOCKING (CONT)
06.03 2X WOOD BLOCKING (CONT)
06.04 PLY: 3/4" TREATED PLYWOOD BLOCKING
- 07 THERMAL/MOISTURE PROTECTION
07.01 SEALANT: TYPE 1 BY FORBES TET SOLUTIONS
07.02 EXPANSION JOINT: W/CUSTOM COLOR SEALANT TO MATCH ADJACENT MATERIAL COLOR
07.03 CONTROL JOINT: W/CUSTOM COLOR SEALANT TO MATCH ADJACENT MATERIAL COLOR
07.04 VAPOR BARRIER: 20 MIL THICK POLYVINYL CHLORIDE SEE UNDER FLOOR VENTILATION SYSTEM
07.05 3 1/2" BATT FIBERGLASS INSULATION (min R-value=19)
07.06 6" BATT FIBERGLASS INSULATION (min R-value=19)
07.07 RIGID WALL INSULATION: 1-3/4" DATHS CORNING FOMULAR HIGH-R ON PLUS XPS (min R-value=10)
07.08 8" BATT FIBERGLASS INSULATION (min R-value=19)
07.09 ROOF INSULATION: FIRESTONE ISO 95+ GL 3.5" (min)
07.10 ROOF BOARD: BOARD 1/2" ISOGUARD HD COVER
07.11 ROOF MEMBRANE: MEMBRANE 60 MIL FULLY ADHERED EPDM
- 08 FINISHES
08.01 GYPSUM: 5/8" INTERIOR GYPSUM BOARD
08.02 CEILING GRID: ACOUSTICAL LAYIN CEILING GRID
08.03 EXT SHEATHING: 5/8" DISSELEMENT SHEATHING INSTALLED PER MFG REQUIREMENTS WITH LIQUID FLASHING TO SEAL JOINTS, FASTENERS, OPENINGS, PENETRATIONS, & TRANSITIONS
08.04 EPS: EXTERIOR INSULATION FINISH SYSTEM ON STYROFOAM EXTRUDED POLYSTYRENE FOAM INSULATION (A/N R-value = 5 PER INCH)
- 09 SPECIALTIES
09.01 EXTINGUISHER CABINET
MFG: LARSEN
MODEL: #2409-ER
DOOR: VERTICAL DUO CLEAR
EXTINGUISHER: PER NFPA 10
09.02 EXTINGUISHER WALL MOUNT
HANGER TYPE: SURFACE WALL MOUNT
EXTINGUISHER: PER NFPA 10
- 10 MECHANICAL
10.01 NOTE: ALL MECHANICAL AND PLUMBING ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO ANY PURCHASE OR INSTALLATION.
- 11 ELECTRICAL
11.01 NOTE: ALL ELECTRICAL ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO ANY PURCHASE OR INSTALLATION.
11.02 POWER: PROVIDE POWER FOR NEW INTERNALLY LIT SIGN LOGO

REVISIONS

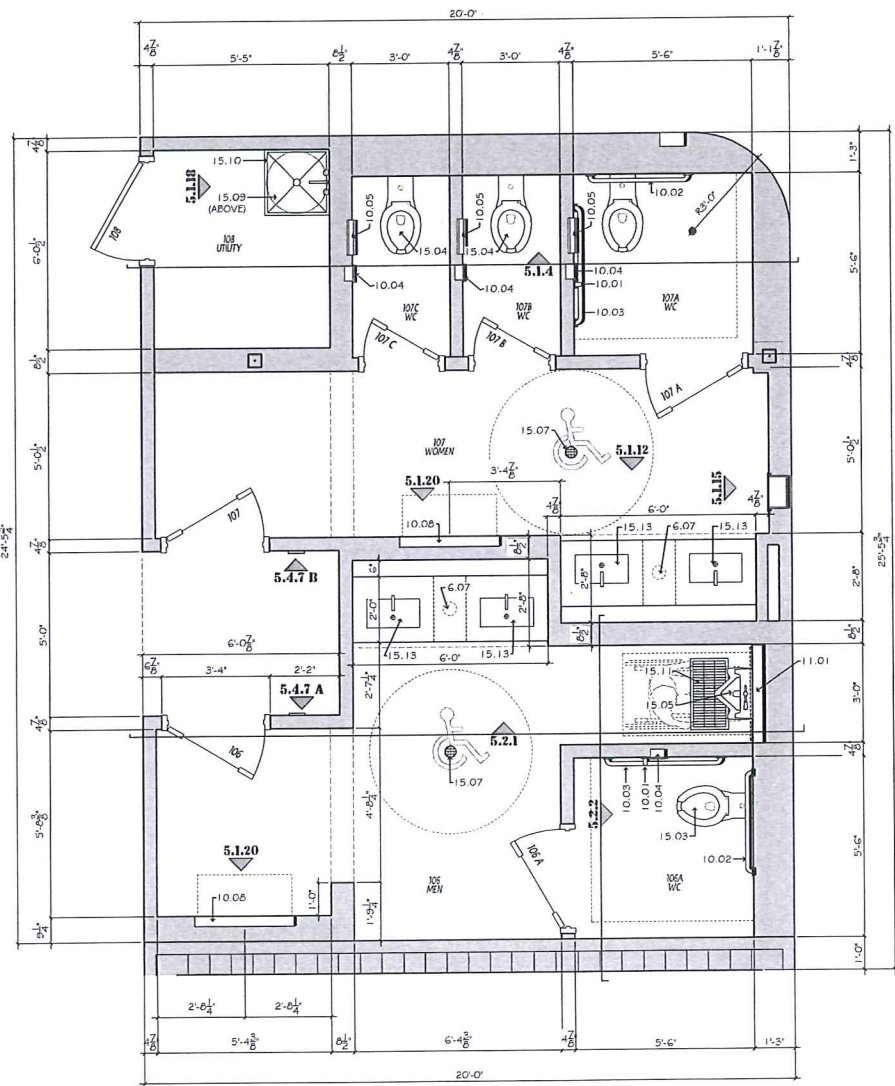
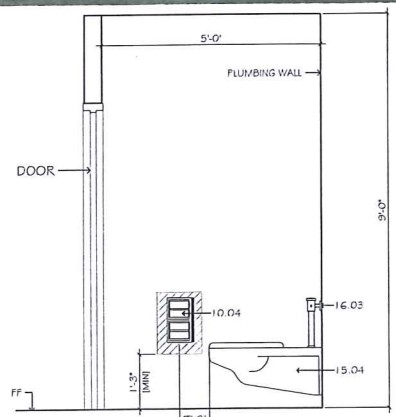
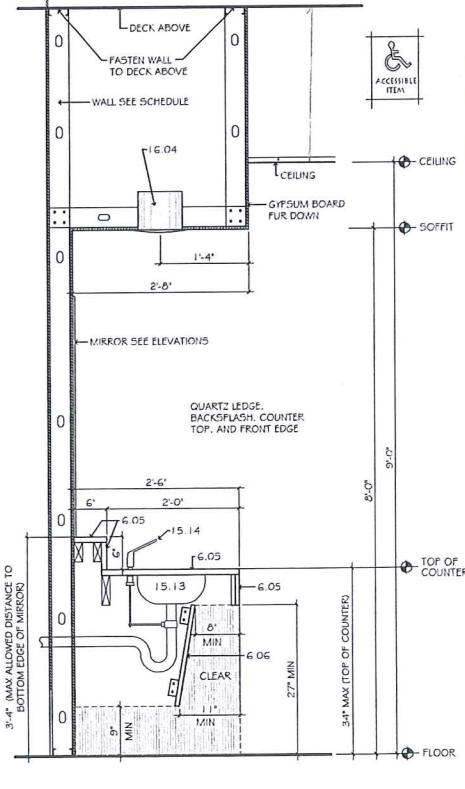
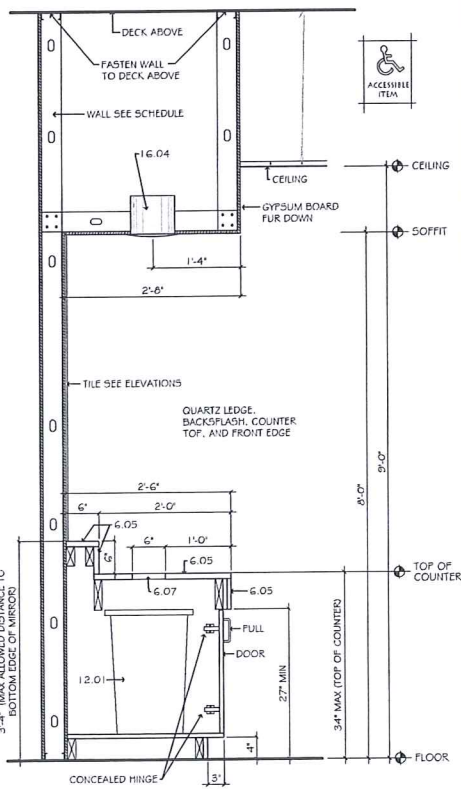
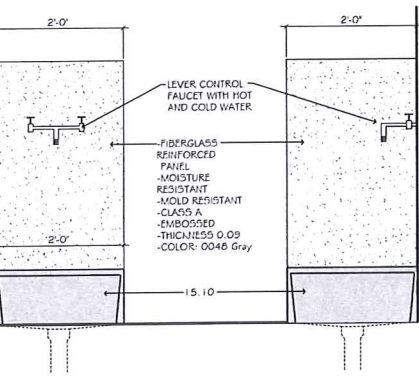
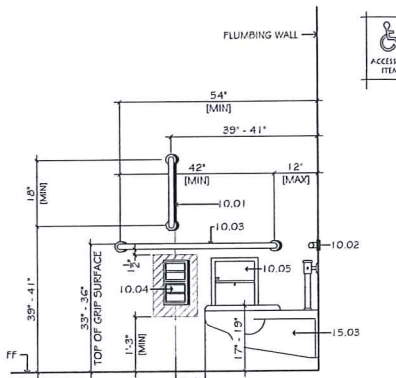
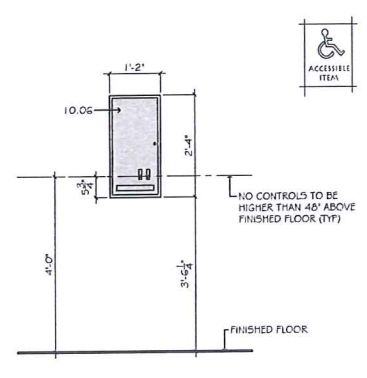
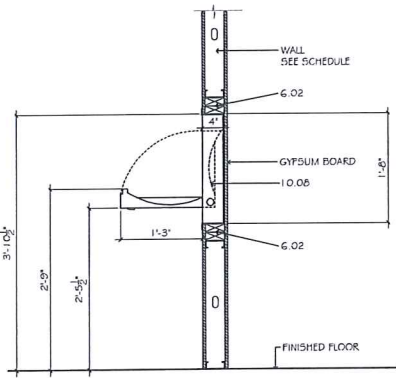
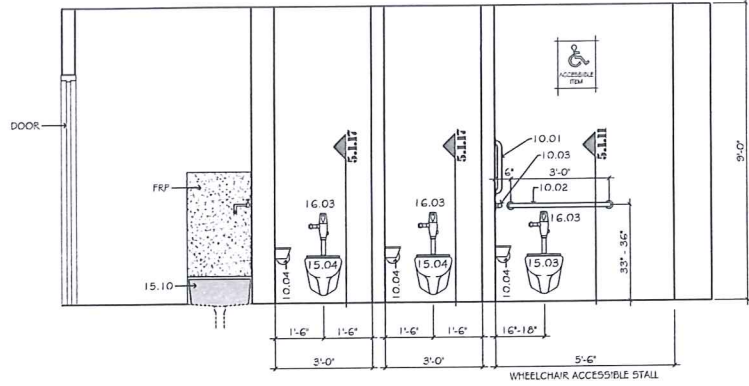
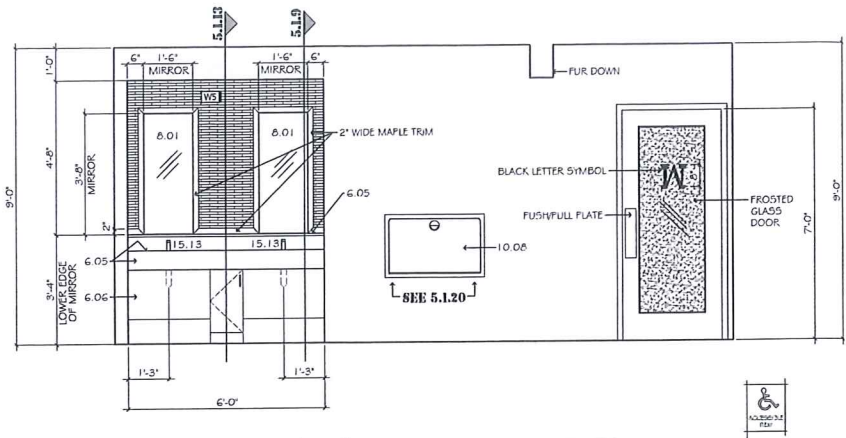
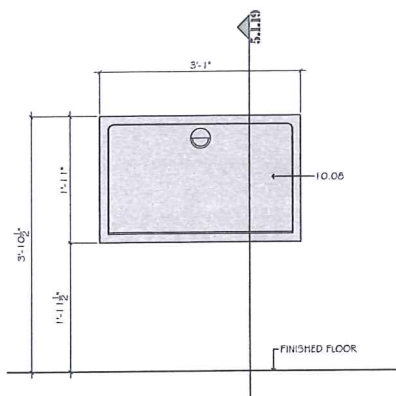
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1400 West Silver Springs Drive • Milwaukee Wisconsin 53209



BY: MSD
REF: DU/UMC
PROJ: 15093
DATE: 17 NOV 2017

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ELEVATIONS



MERCEDES-BENZ NORTH MILWAUKEE NOTES

06 WOOD/PLASTICS

- 01 - 1" x 4" FIRE-TREATED WOOD BLOCKING
- 02 - 2" x 4" FIRE-TREATED WOOD BLOCKING
- 03 - 1/2" WOODWORK SEE DETAILS
- 04 - PROVIDE FIRE-TREATED BLOCKING TO SUPPORT ACCESSIBLE GRAB BARS BEHIND GYPSUM BOARD
- 05 - QUARTZ LEDGE, BACKPLASH, COUNTER, FRONT PANEL
- 06 - PLASTIC LAMINATE REMOVABLE ACCESS PANEL
- 07 - 6" DIAMETER GROUND/NET FOR TRASH ACCESS

07 THERMAL MOISTURE PROTECTION

- 08 - ALL REST ROOM WALLS TO BE FULLY INSULATED
- 09 - PROVIDE ADA APPROVED INSULATION SLEEVES ON ALL EXPOSED PIPING UNDER SINK (TYP)

08 DOOR AND WINDOWS

- 01 - MIRROR - GLASS MIRROR, 16" W x 4" H HIGH WITH 2" WIDE WOOD TRIM BOARD
- 02 - GLASS WALL - FULL HEIGHT BUTT-GLAZED CLEAR GLASS WALL PANEL
- 03 - GLASS DOOR - FULL HEIGHT FRAMELESS CLEAR GLASS DOOR

10 SPECIALTIES

- 01 - GRAB BAR 18" - CONCEALED MOUNTING BRADLEY #12-0-001-10
- 02 - GRAB BAR 36" - CONCEALED MOUNTING BRADLEY #12-0-001-36 (04)
- 03 - GRAB BAR 42" - CONCEALED MOUNTING BRADLEY #12-0-001-42 (04)
- 04 - DOUBLE WALL PAPER DISPENSER BRADLEY MODEL #5127
- 05 - FEMININE PRODUCT WASTE RECEPTACLE BRADLEY MODEL #4737
- 06 - FEMININE PRODUCT VENDOR BRADLEY MODEL #407
- 07 - SOAP DISPENSER BRADLEY MODEL #6437
- 08 - BABY CHANGING STATION - RECESSED INTO WALL, KONA KARE FB110-5592 STAINLESS STEEL
- 09 - FIRE CABINET - FULLY RECESSED LARSENIS ALD-2409 EXTINGUISHER CABINET PROVIDE PORTABLE EXTINGUISHER

11 EQUIPMENT

- 01 - FLAT SCREEN TV - TV MONITOR RECESSED INTO WALL, OWNER FURNISHED AND CONTRACTOR INSTALLED, CONTRACTOR TO PROVIDE POWER & DATA RECESSED IN TO WALL
- 02 - FREEZER/REFRIGERATOR - FULL SIZE FREEZER, REFRIGERATOR UNIT TO BE OWNER FURNISHED, CONTRACTOR INSTALLED, CONTRACTOR TO PROVIDE POWER
- 03 - DIGITAL BREWER - STARBUCKS INTERACTIVE CUP DIGITAL BREWER UNIT TO BE OWNER FURNISHED, CONTRACTOR INSTALLED, CONTRACTOR TO PROVIDE POWER, WATER, AND DRAIN
- 04 - REFRIGERATOR - UNDER COUNTER GLASS DOOR, ADA REFRIGERATOR OWNER FURNISHED, CONTRACTOR INSTALLED, CONTRACTOR TO PROVIDE POWER
- 05 - KEY SAFE - ELECTRONIC KEY SAFE OWNER FURNISHED, CONTRACTOR INSTALLED, PROVIDE POWER AND DATA CONNECTION

12 FURNISHINGS

- 01 - TRASH CAN - METAL TRASH CAN IN MILLWORK, FURNISHED AND INSTALLED BY GENERAL CONTRACTOR
- 02 - FURNITURE - MERCEDES-BENZ FURNITURE ITEM TO BE OWNER FURNISHED AND INSTALLED

15 MECHANICAL

- 01 - SINGLE SINK - SINGLE SINK (ADA COMPLIANT) W/ ELECTRONIC FAUCET - PROVIDE HOT/COLD WATER
- 02 - DOUBLE SINK - DOUBLE SINK (ADA COMPLIANT) W/ ELECTRONIC FAUCET - PROVIDE HOT/COLD WATER
- 03 - WATER CLOSET ADA - WALL MOUNTED FLUSH VALVE (ADA COMPLIANT) WATER CLOSET - W/ AUTO FLUSH SENSOR
- 04 - WATER CLOSET - WALL MOUNTED FLUSH VALVE WATER CLOSET - W/ AUTO FLUSH SENSOR
- 05 - URINAL ADA - WALL MOUNTED (ADA COMPLIANT) URINAL @ 17" AFF TO TOP OF RIM MAX - W/ AUTO FLUSH SENSOR
- 06 - URINAL - WALL MOUNTED URINAL @ 24" AFF TO TOP OF RIM
- 07 - FLOOR DRAIN - FLUSH FLOOR DRAIN
- 08 - WATER COOLER - ELECTRIC WATER COOLER DOUBLE (ADA COMPLIANT) WITH BOTTLE FILLER, ELKAY LW5-UPB26K
- 09 - WATER HEATER - WATER HEATER W/ SHUT OFF FOR ALL HOT WATER REQUIREMENTS W/ PUMP AND FLOOR DRAIN, FURNISH POWER AND VENTING AS REQUIRED
- 10 - SERVICE SINK - 1/8" SINK - FLOOR MOUNTED SERVICE BASIN W/ VALVE FAUCET AND FRP WALL GUARD @ 48" AFF ALL SIDES ADJACENT TO SINK
- 11 - URINAL GRATE - 24" x 12" URINAL GRATE RECESSED INTO FLOOR WITH HOSE BIBB CONNECTION ON SIDE WALL FOR CLEANING
- 12 - HOSE BIBB - HOSE BIBB CONNECTION FOR CLEANING URINAL GRATE
- 13 - UNDERMOUNT SINK - KOHLER K-2330-7 BLACK
- 14 - FAUCET - TOUCHLESS FAUCET KOHLER K-13463-CP

16 ELECTRICAL

- 01 - EXHAUST FAN - PROVIDE EXHAUST FAN MIN CFM AS REQUIRED BY CODE SEE M-0403
- 02 - POWER - 110 VOLT RECEPTACLE @ 6' AFF SET IN WALL RECESS FOR TV
- 03 - AUTO SENSOR - BATTERY OPERATED AUTOMATIC CONTROL SENSOR
- 04 - FIXTURE - LED LIGHT FIXTURE SEE S-0403
- 05 - DATA - DATA RECEPTACLE @ 6' AFF SET IN WALL RECESS FOR TV

REVISIONS

DENTON ARCHITECTURE
1082 DAWSON ROAD | MEMPHIS, TN 38103 | 901.741.5905 FAX 741.4403

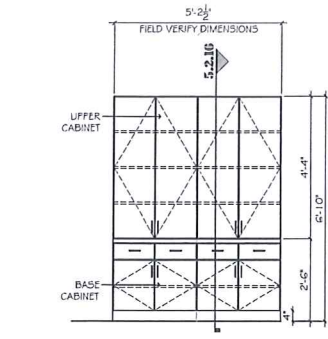
Mercedes-Benz
MILWAUKEE NORTH
1400 West Silver Springs Drive • Milwaukee Wisconsin 53209



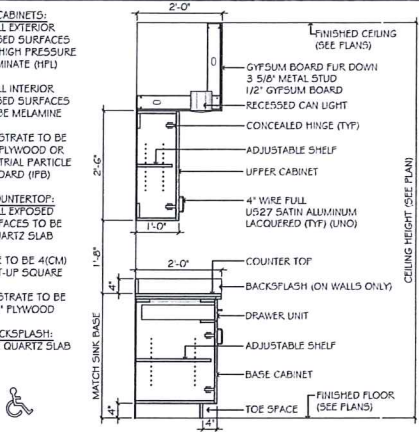
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DETAILS

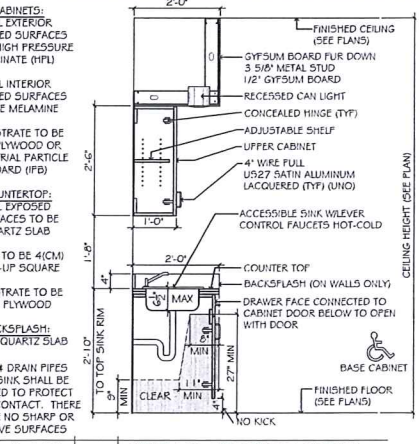
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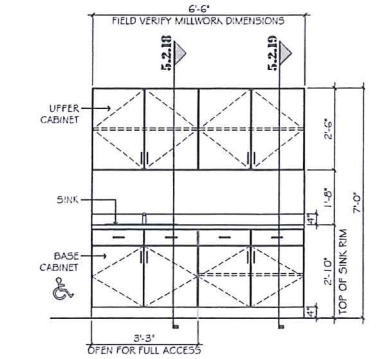
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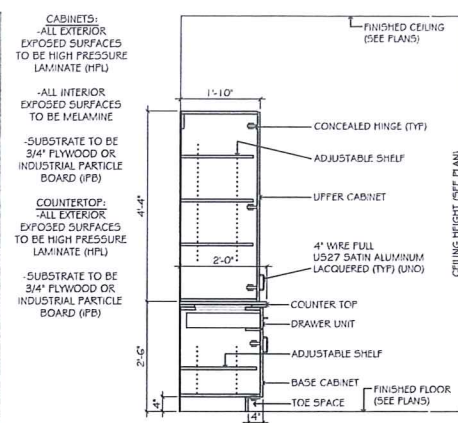
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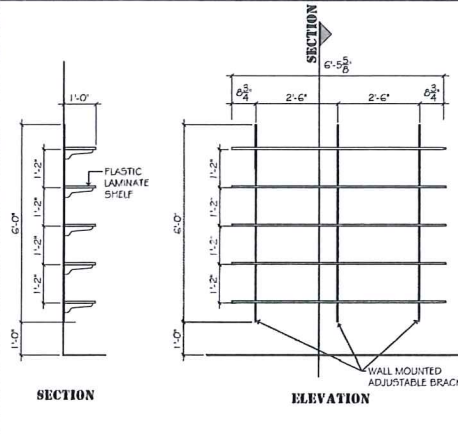
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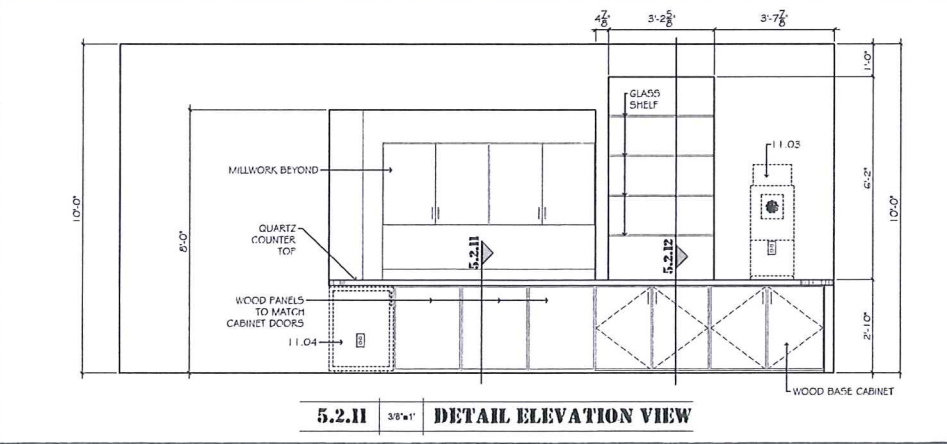
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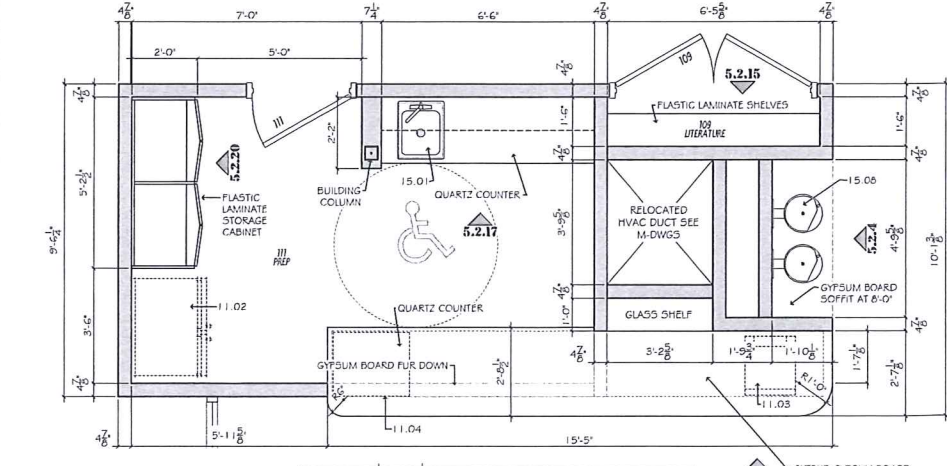
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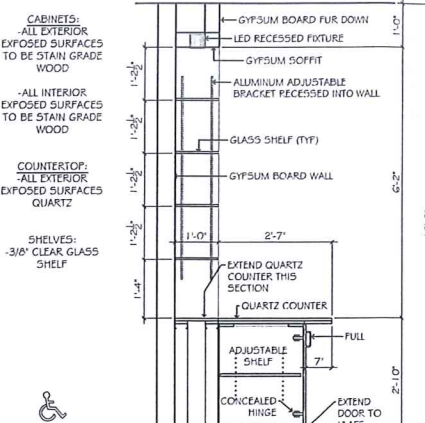
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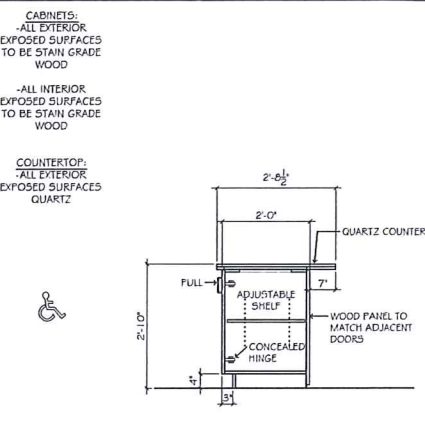
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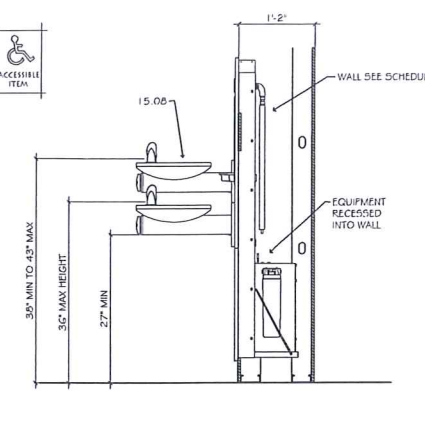
5.2.9 3/8"x1' DETAIL FLOOR PLAN



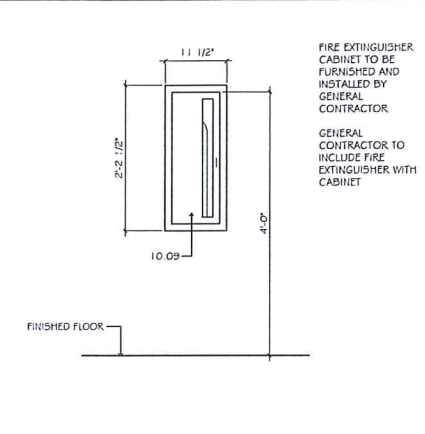
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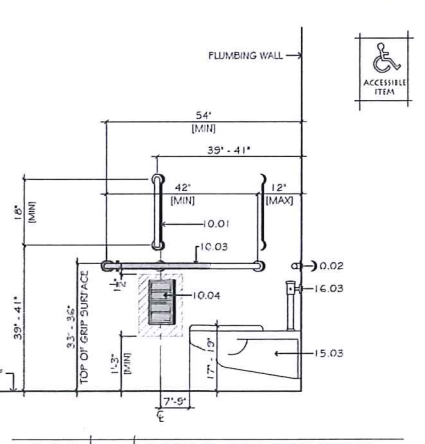
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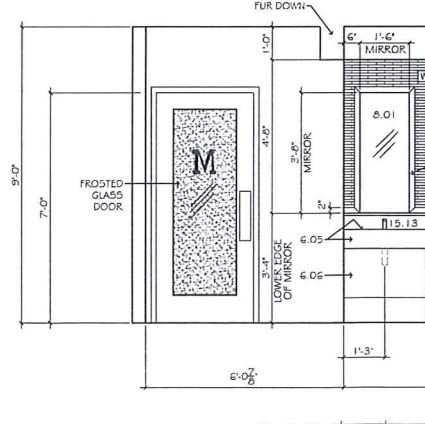
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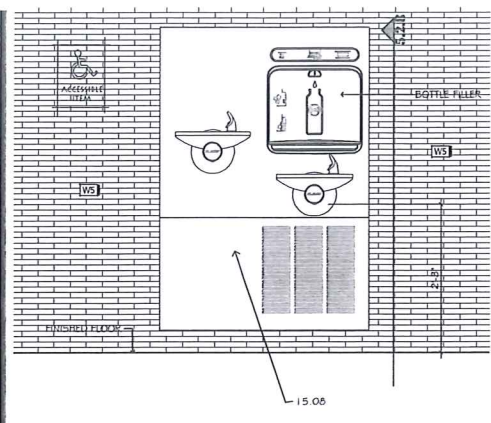
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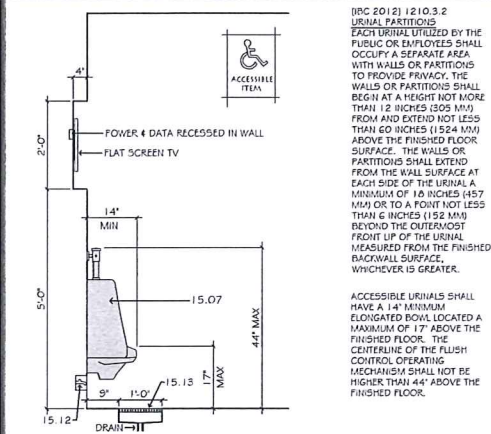
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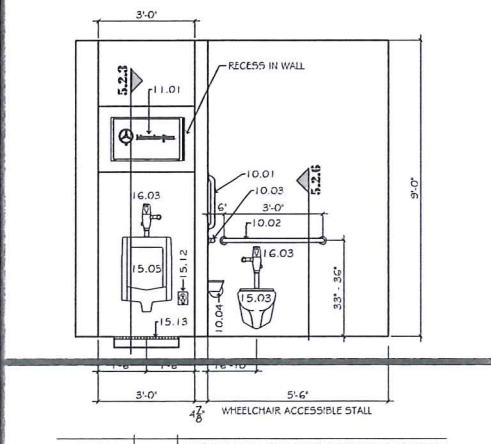
5.2.1 3/8"x1' DETAIL ELEVATION VIEW



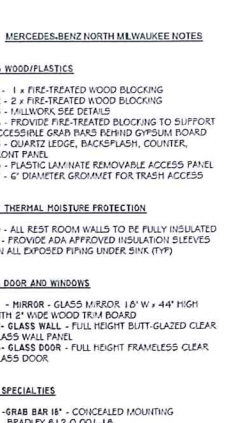
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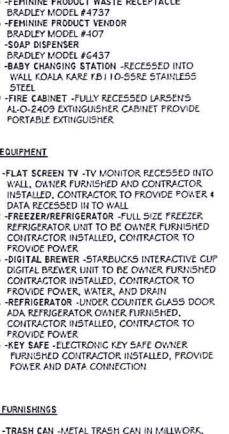
5.2.3 1/2"x1' DETAIL SECTION VIEW



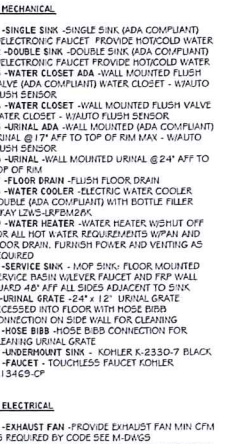
5.2.2 3/8"x1' DETAIL ELEVATION VIEW



5.2.1 3/8"x1' DETAIL ELEVATION VIEW



5.2.1 3/8"x1' DETAIL ELEVATION VIEW



5.2.1 3/8"x1' DETAIL ELEVATION VIEW



5.2.1 3/8"x1' DETAIL ELEVATION VIEW

REVISIONS

Mercedes-Benz NORTH MILWAUKEE

1400 West Silver Springs Drive • Milwaukee Wisconsin 53209

BY: JMD
REF: DU/UMC
PROJ: 16093
DATE: 17 NOV 2017

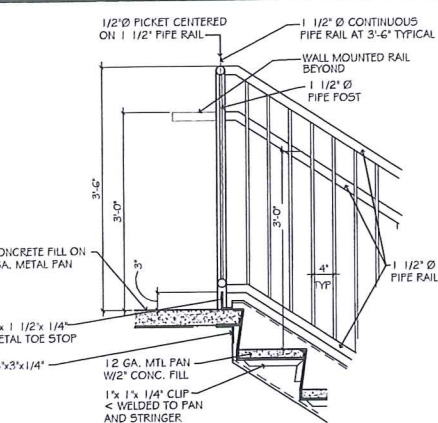
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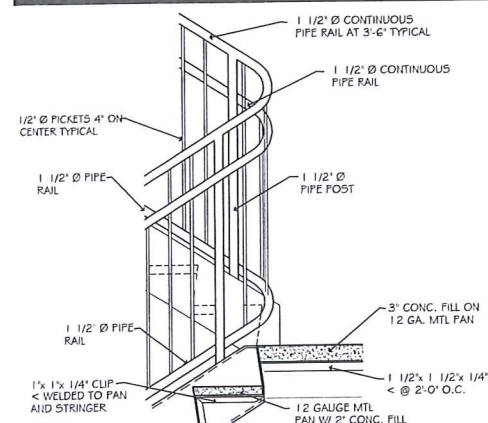
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DETAILS

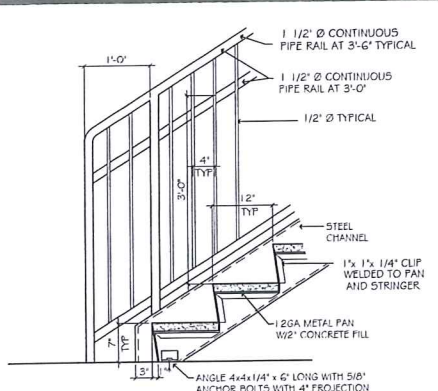
5.3.20	6'-1"	DETAIL SECTION VIEW
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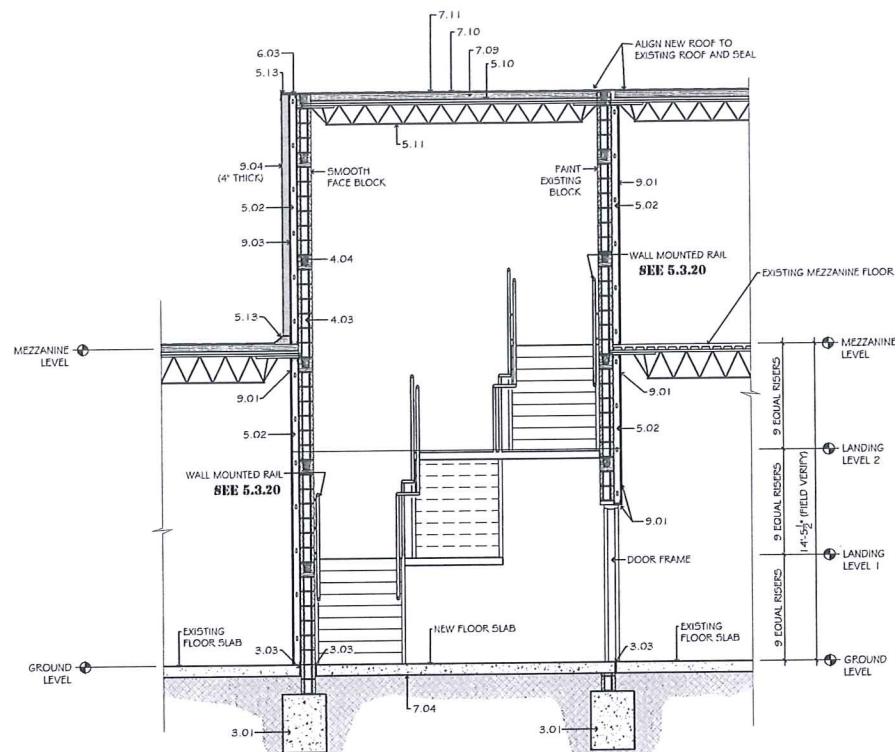
5.3.19	3/4"x1'	DETAIL SECTION VIEW
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5.3.18	3/4" x 1'	DETAIL SECTION VIEW
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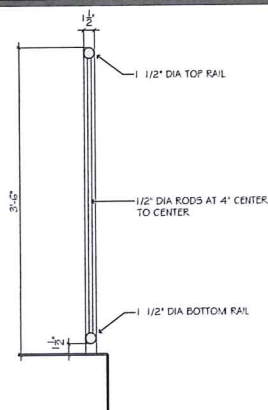


5.3.17	3/4"x1'	DETAIL SECTION VIEW
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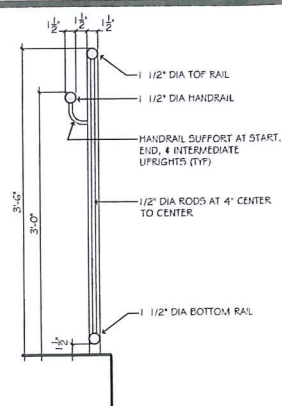
5.3.11	1/4"=1'	DETAIL SECTION VIEW
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ALL METAL SURFACE TO
BE PRIMED AND PAINTED
AFTER INSTALLATION
TYPICAL

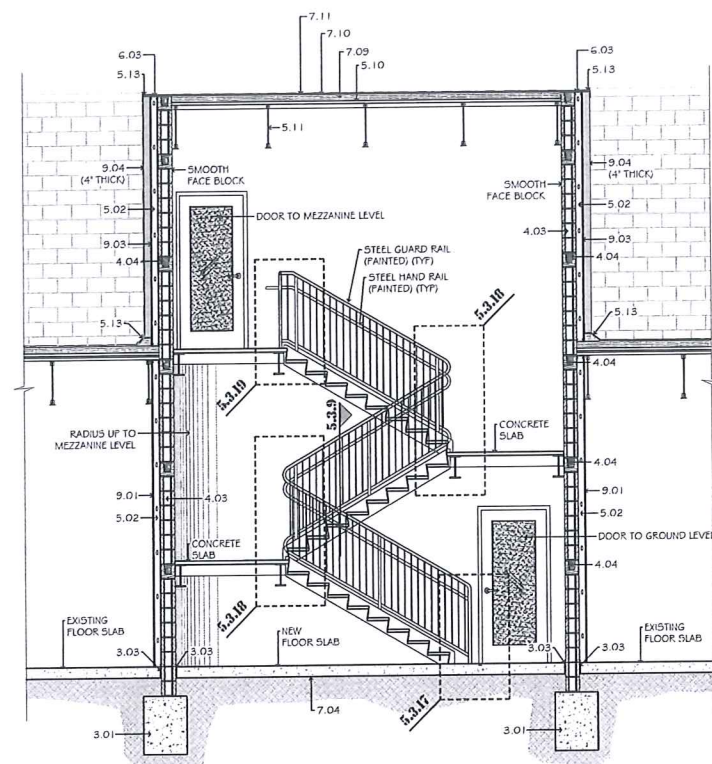


5.3.10	1'-1"	DETAIL SECTION VIEW
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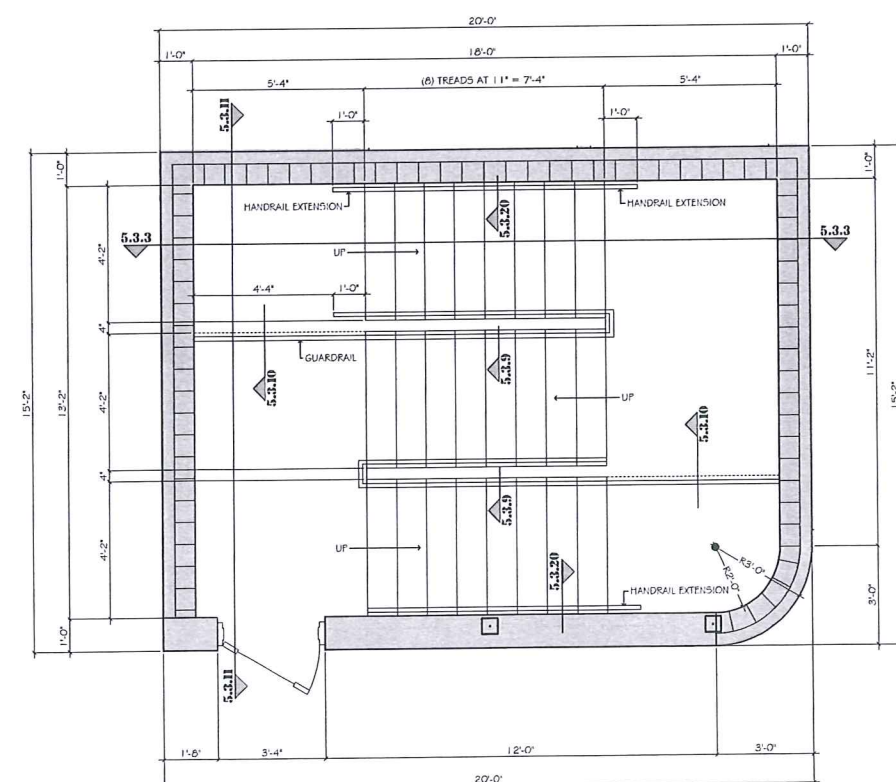
ALL METAL SURFACE TO
BE PRIMED AND PAINTED
AFTER INSTALLATION
TYPICAL



5.3.9	1'-0"	DETAIL SECTION VIEW
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5.3.3	1/4" x 1"	DETAIL SECTION VIEW
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5.3.1	3/8" x 1"	DETAIL FLOOR PLAN
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MERCEDES-BENZ CONSTRUCTION NOTES

03 CONCRETE
00. NOTE: SEE S-DIGITS FOR ALL SIZES, PSI,
REINFORCING, ETC.
01. FOOTING: BELOW FROST LINE.
02. FLOOR SLAB: CONCRETE FLOOR SLAB
(SEE S-DIGITS)
03. JOINT FILLER: PREMOLDED
04. PIER: CONCRETE PIER SEE S-DIGITS FOR
REINFORCING

04 MASONRY
01. 8" CONCRETE BLOCK: 8 x 8 x 16 BLOCK.
02. 8" CONCRETE BLOCK: 8 x 8 x 16 U-BLOCK.
03. SMOOTH FACE BLOCK: 8 x 8 x 16
SMOOTH FACE CONCRETE BLOCK.
04. SMOOTH FACE U-BLOCK: 8 x 8 x 16
SMOOTH FACE CONCRETE U-BLOCK.

05 METALS

06. NOTE: ALL EXTERIOR EXPOSED STEEL TO BE GALVANNEAL OR GALVAPLATE.

07. SEE STRUCTURAL DRAWINGS FOR ALL STEEL SIZES

01. 1/2" STEEL HAT CHANNEL

02. 1/2" STEEL STUD

03. 4" STEEL STUD

04. 6" STEEL STUD

05. TUBE STEEL TUBE

06. ANGLE STEEL ANGLE

07. C-CHANNEL STEEL C-CHANNEL

08. BEAM STEEL BEAM

09. CHANNEL STEEL CHANNEL

10. 1/2" DEEP RIB JOIST

11. BAR JOIST STEEL BAR JOIST

12. JOIST GIRDER STEEL JOIST GIRDER

13. FLASHING 1/2" GA GALVANIZED CONTINUOUS

14. ACM PANEL ACM FLAT PANEL REINFORCED WITH ALUMINUM

15. PROTECTIVE POST STEEL PIPE FILLED WITH CONCRETE 4" ABOVE GRADE 4" BELOW GRADE

16. FLASHING 1/2" GA GALVANIZED TO INCLUDE HINGE GUARD BY ENCORE COMMERCIAL PRODUCTS IN

17. COPING FENOL 150 PARAPET WALL COPING

18. MANUFACTURE TO ALLOW FOR EXPANSION AND CONTRACTION DO NOT SCREW TOP COVER TO BUILDING

05 WOOD/PLASTICS
00. NOTE: ALL WOOD BLOCKING THROUGHOUT
BUILDING TO BE FIRE-TREATED (TYP)
01. 1 X: WOOD BLOCKING (CONT)
02. 2 X: WOOD BLOCKING (CONT)
03. PLY: 3/4" TREATED PLYWOOD BLOCKING

07. THERMAL AND VAPOR PROTECTION
01. SEALANT: MITE-1 BY MORTAR NET SOLUTION
02. EXPANSION JOINT: WUCUMSTON COLOR SEAL
MATCH ADJACENT MATERIAL COLOR
03. CONTROL JOINT: WUCUMSTON COLOR SEAL
MATCH ADJACENT MATERIAL COLOR
04. VAPOR BARRIER: MITE-1 BY MORTAR NET SOLUTION
CHLORIDE SEED UNDER FLOOR VENTILATION SYSTEM
05. 3/4" BATT: FIBERGLASS INSULATION
(min R-value = 13)
06. 6" BATT: FIBERGLASS INSULATION (min R-value
= 19)
07. RED WALL INSULATION: 3/4" GYPSUM CORE
FIBERGLASS HIGH-DENSITY FIBER (min R-value = 4)
08. 6" BATT: FIBERGLASS INSULATION (min R-value
= 19)
09. ROOF INSULATION: FIRESTONE ISO 95+ GUM
(min R-value = 30)
10. ROOF BOARD: BOARD: 1/2" ISOGLAD HD
11. ROOF MEMBRANE: MEMBRANE: 60 MIL POLY
ESTER FPM

09. FRUITS:
01. GYPSUM: 5/8" INTERIOR GYPSUM BOARD
02. CEILING GRID: ACOUSTICAL LYNN CEILING
03. EXT. SHEATHING: 5/8" DENSEMENT SHEATHING
04. FLASHING: 1/2" MFG. REQUIREMENTS WITH LIQUID
FLASHING TO SEAL JOINTS, FASTENERS, OPENING
PENETRATIONS, 4 TRANSITIONS
04. EPS: EXTERIOR EXPOSED FURSH SYSTEM
STYROFOAM INSULATION POLYSTYRENE FOAM
INSULATION (MIN. R-Value = 5 PER INCH)

10. SPECIALTIES
01. EXTINGUISHER CABINET
MFG: LARSON
MODEL: #2409-ER
DOOR: VERTICAL DUAL CLEAR
EXTINGUISHER: FFF NFPA 10
02. EXTINGUISHER WALL MOUNT
HANGER TYPE: SURFACE WALL MOUNT
EXTINGUISHER: FFF NFPA 10

15 MECHANICAL
00. NOTE: ALL MECHANICAL AND PLUMBING ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO PURCHASE OR INSTALLATION.

16 ELECTRICAL
00. NOTE: ALL ELECTRICAL ITEMS SHOWN ON ARCHITECTURAL PLANS ARE TO BE VERIFIED WITH ENGINEERING DRAWINGS PRIOR TO ANY PURCHASE OR INSTALLATION.

01. POWER: PROVIDE POWER FOR NEW INTERIOR SIGN LOGO.

REVISIONS

**DENTON
ARCHITECTURE**

Mercedes-Benz
MILWAUKEE NORTH

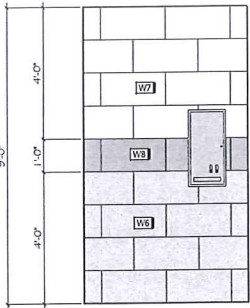


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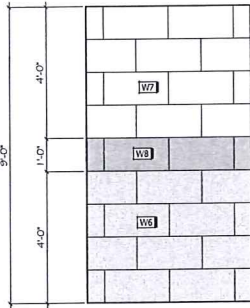
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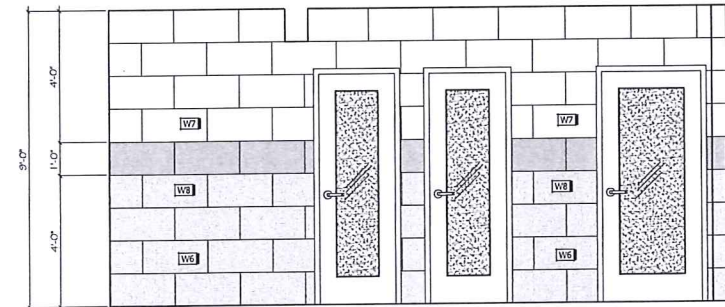
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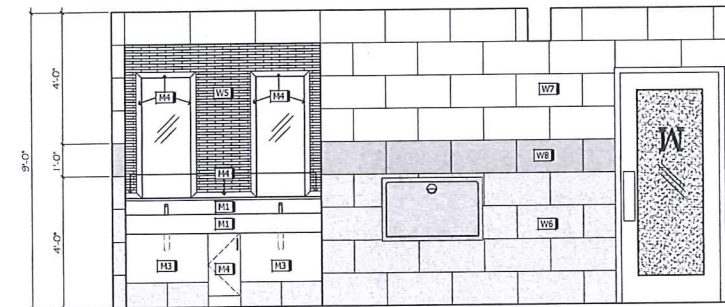
5.5.20 3/8"=1' DETAIL ELEVATION VIEW



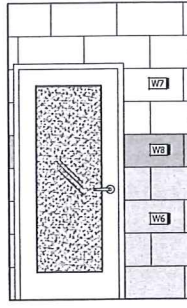
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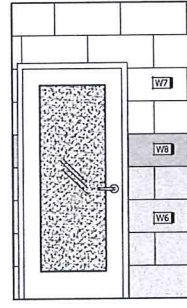
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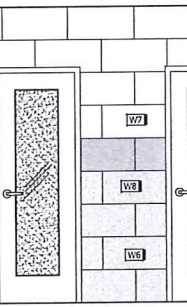
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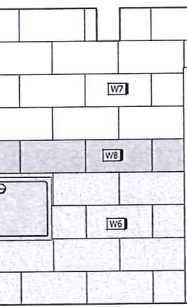
5.5.12 3/8"=1' DETAIL ELEVATION VIEW



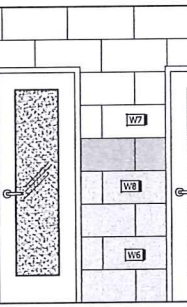
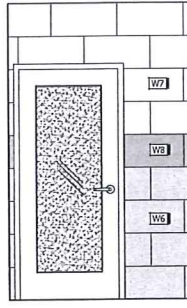
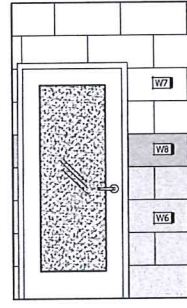
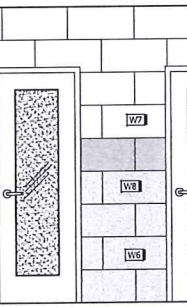
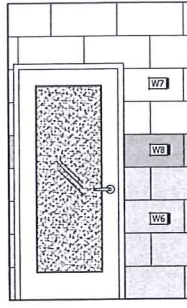
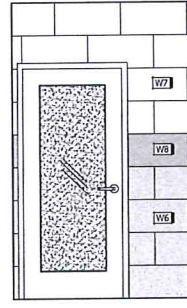
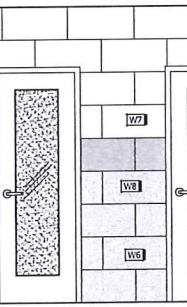
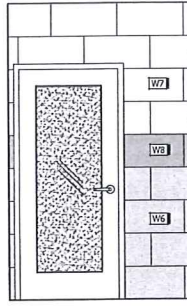
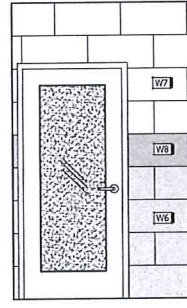
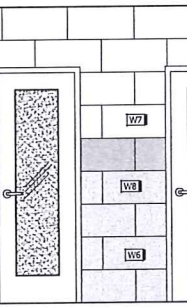
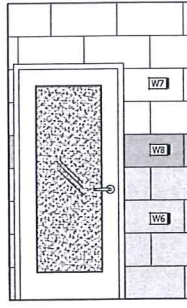
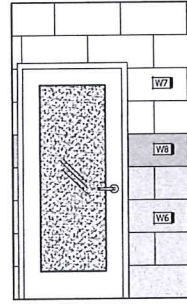
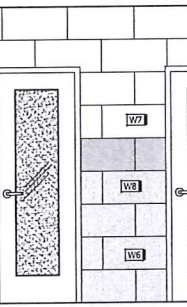
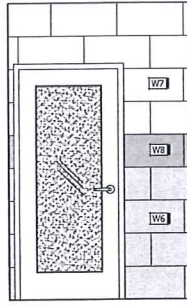
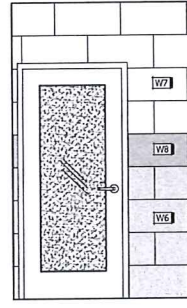
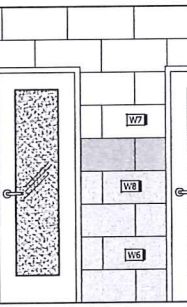
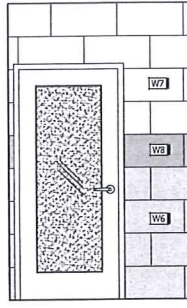
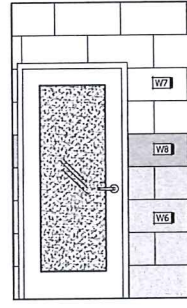
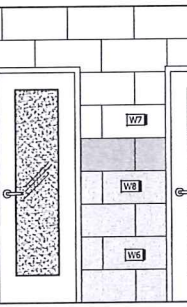
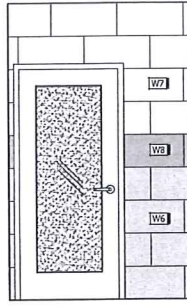
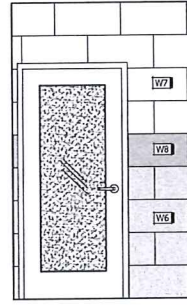
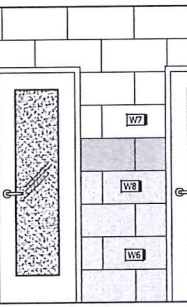
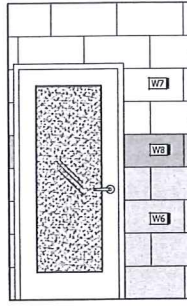
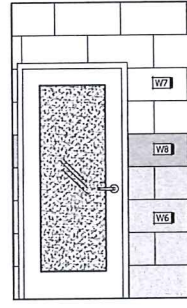
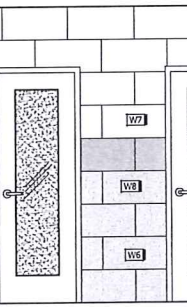
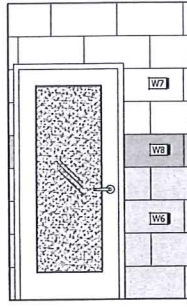
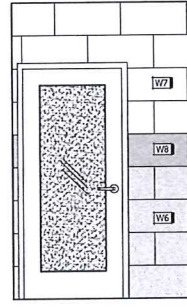
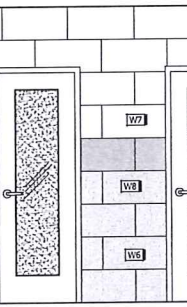
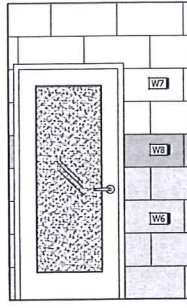
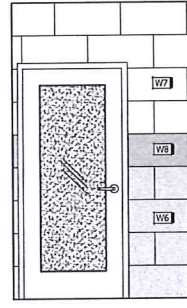
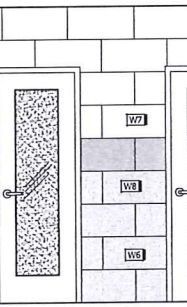
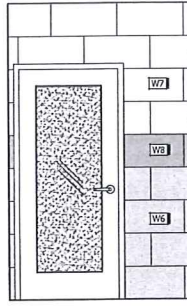
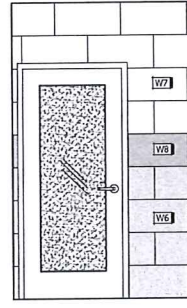
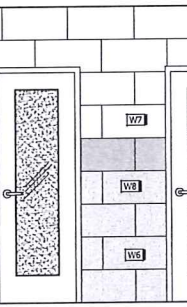
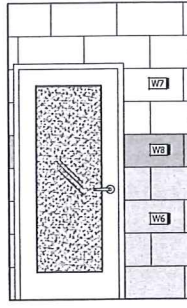
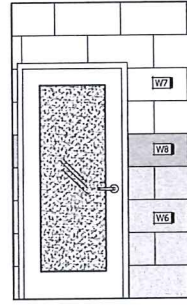
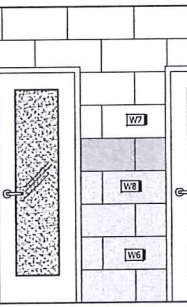
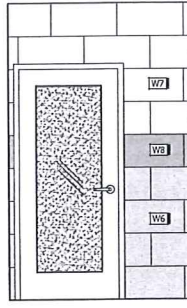
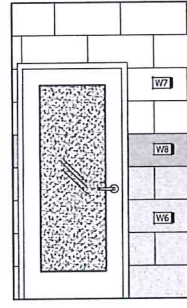
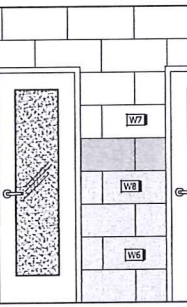
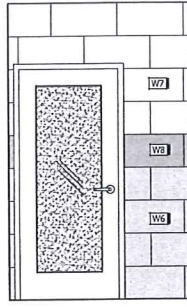
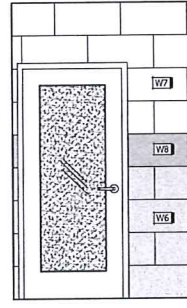
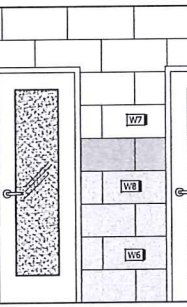
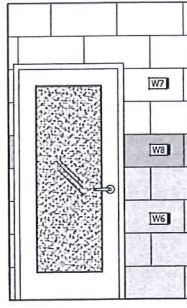
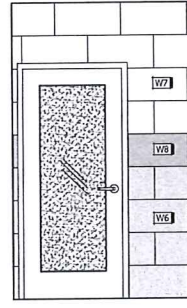
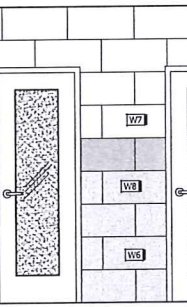
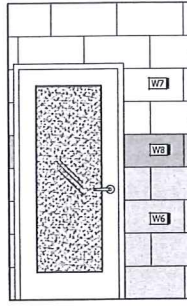
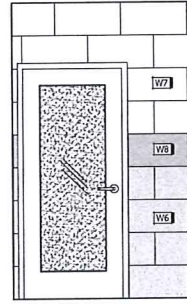
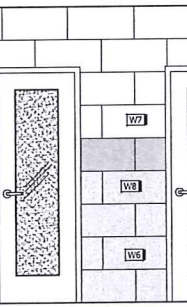
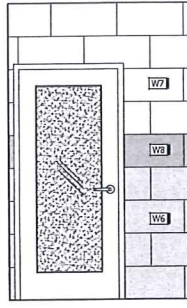
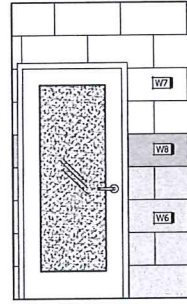
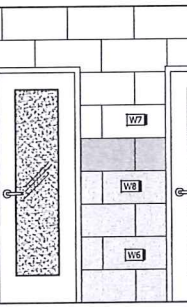
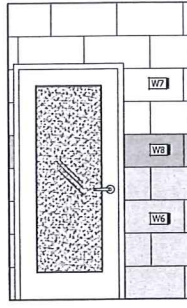
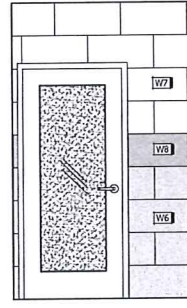
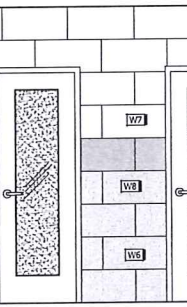
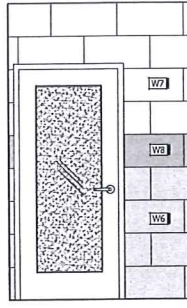
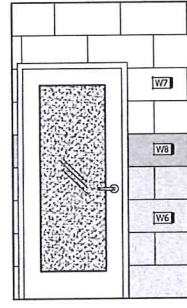
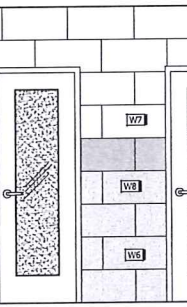
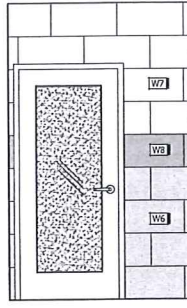
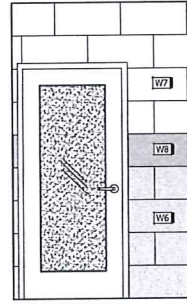
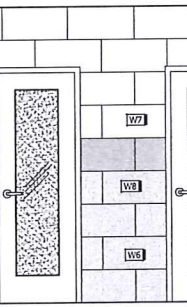
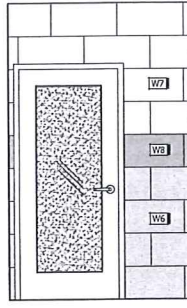
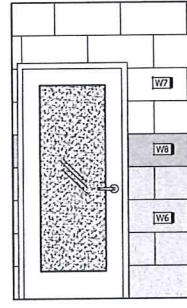
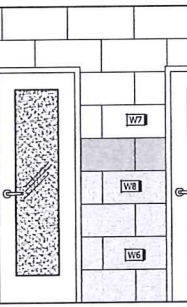
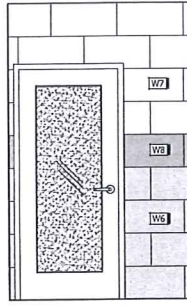
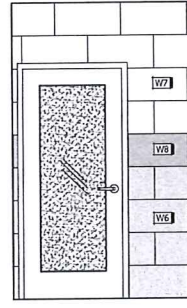
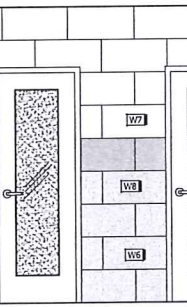
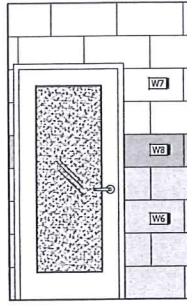
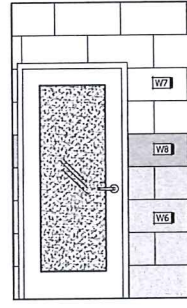
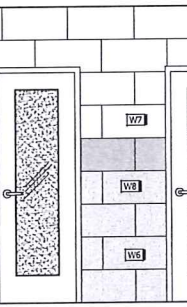
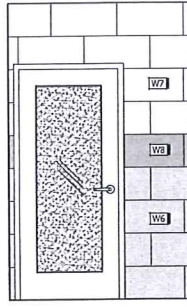
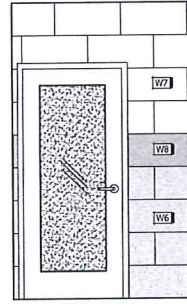
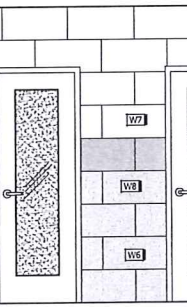
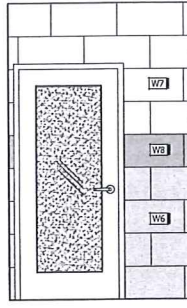
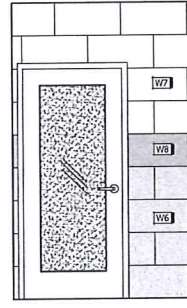
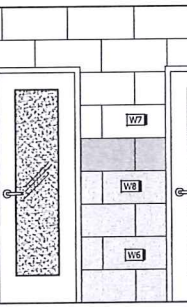
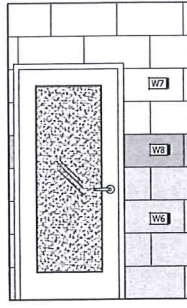
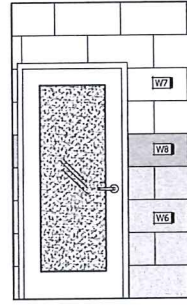
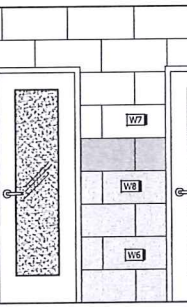
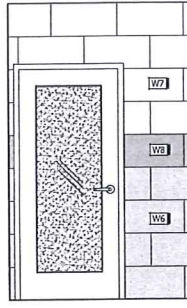
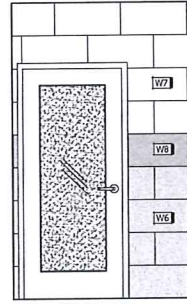
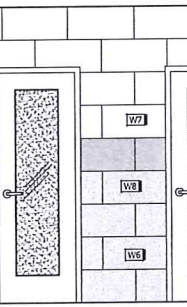
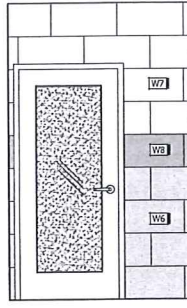
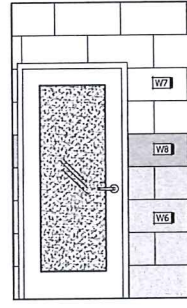
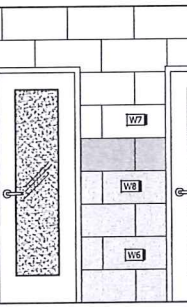
5.5.11 3/8"=1' DETAIL ELEVATION VIEW

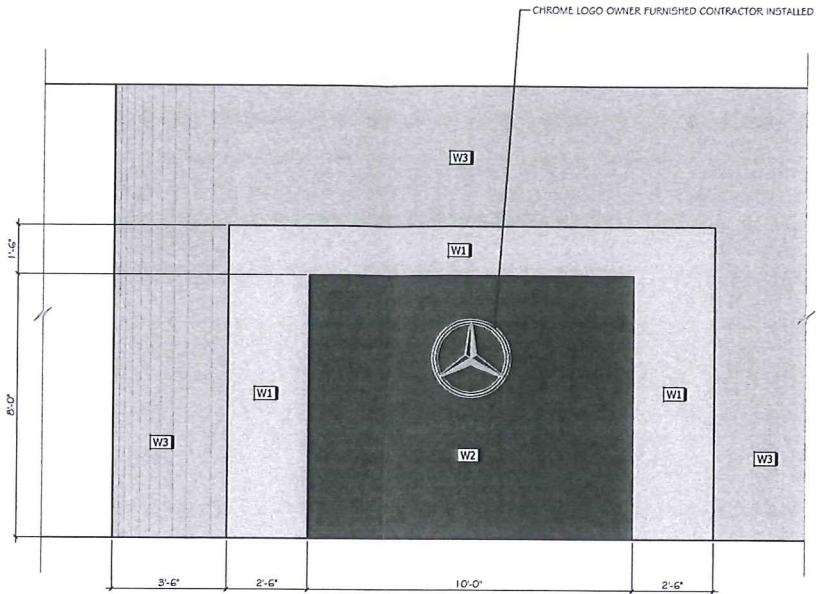


5.5.10 3/8"=1' DETAIL ELEVATION VIEW

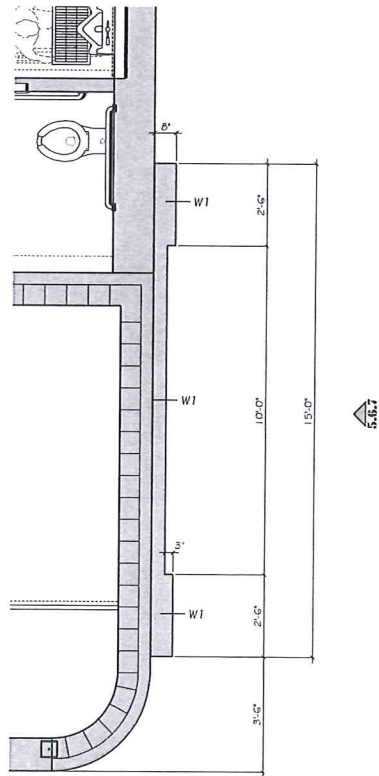


5.5.9 3/8"=1' DETAIL ELEVATION VIEW

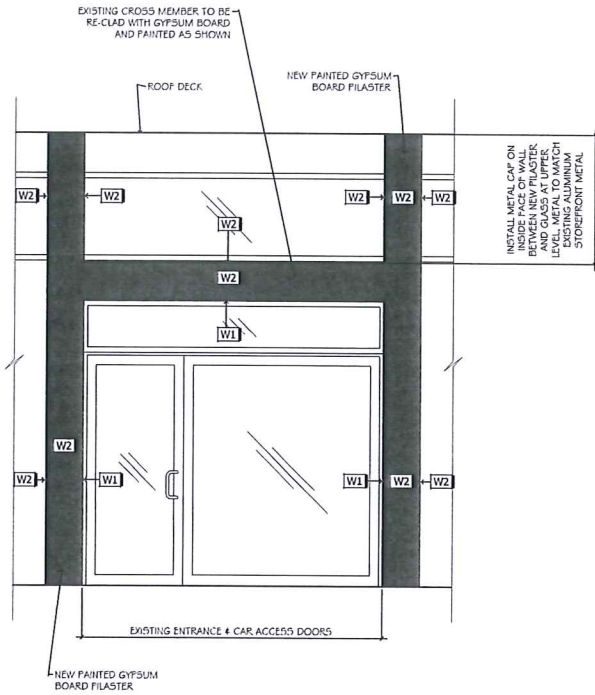




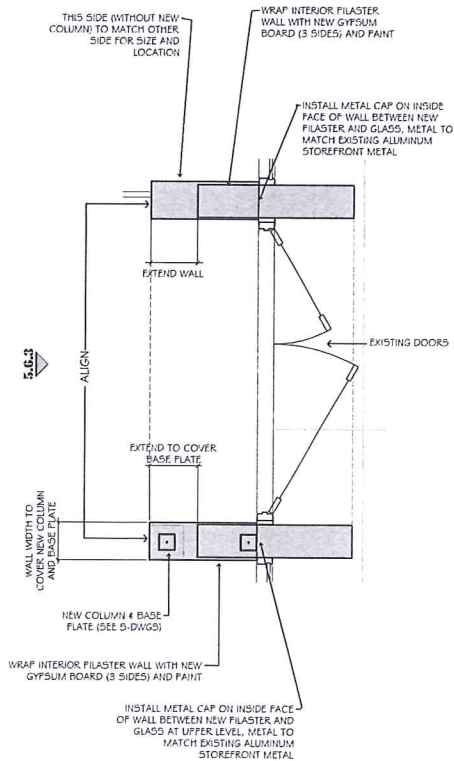
5.6.7 3/8"=1' DETAIL ELEVATION VIEW



5.6.5 3/8"=1' DETAIL FLOOR PLAN



5.6.3 3/8"=1' DETAIL ELEVATION VIEW



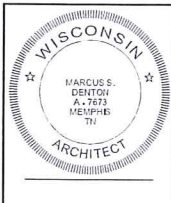
5.6.1 3/8"=1' DETAIL FLOOR PLAN

REVISIONS

DENTON
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Mercedes-Benz
MILWAUKEE NORTH

1400 West Silver Springs Drive • Milwaukee Wisconsin 53209



BY: MSD
REF: DU/UMC
PROJ: 16095
DATE: 17 NOV 2017

A5.6
16
DETAILS

SEE WALL TYPE

GYPSUM BOARD EACH SIDE

METAL STUD

DOUBLE HEADER STUDS

CAULK CONTINUOUS EACH SIDE

HOLLOW METAL FLANGE HEAD

t_v

t_w

PER WALL SCHEDULE

A detailed cross-section diagram of a door jamb assembly. The diagram shows a hollow metal frame on the left, which is 2 inches wide. The frame is secured with jamb anchors (5 each side per jamb) and continuous caulk. The frame is set into a wall made of double studs, which are also secured with continuous caulk. The wall is finished with 5/8 inch gypsum board on each side. The door is shown on the left, with a note indicating it is a 'DOOR - SEE SCHEDULE'. The wall thickness is labeled as 'PER WALL SCHEDULE' and 'SEE WALL TYPE'.

Labels and dimensions in the diagram include:

- HOLLOW METAL FRAME
- 2"
- CAULK CONTINUOUS
- DOUBLE STUDS
- PER WALL SCHEDULE
- DOOR - SEE SCHEDULE
- JAMB ANCHORS (5) EACH SIDE PER JAMB
- CAULK CONTINUOUS
- 5/8" GYPSUM BOARD EACH SIDE
- SEE WALL TYPE

DOOR SPECIFICATIONS

ALL GLAZING SHALL BE CLEAR TEMPERED, UNLESS NOTED, AND SHALL BEAR THE WORD "TEMPERED" IN THE CORNER OF THE GLASS AND BE VISIBLE AFTER INSTALLATION.

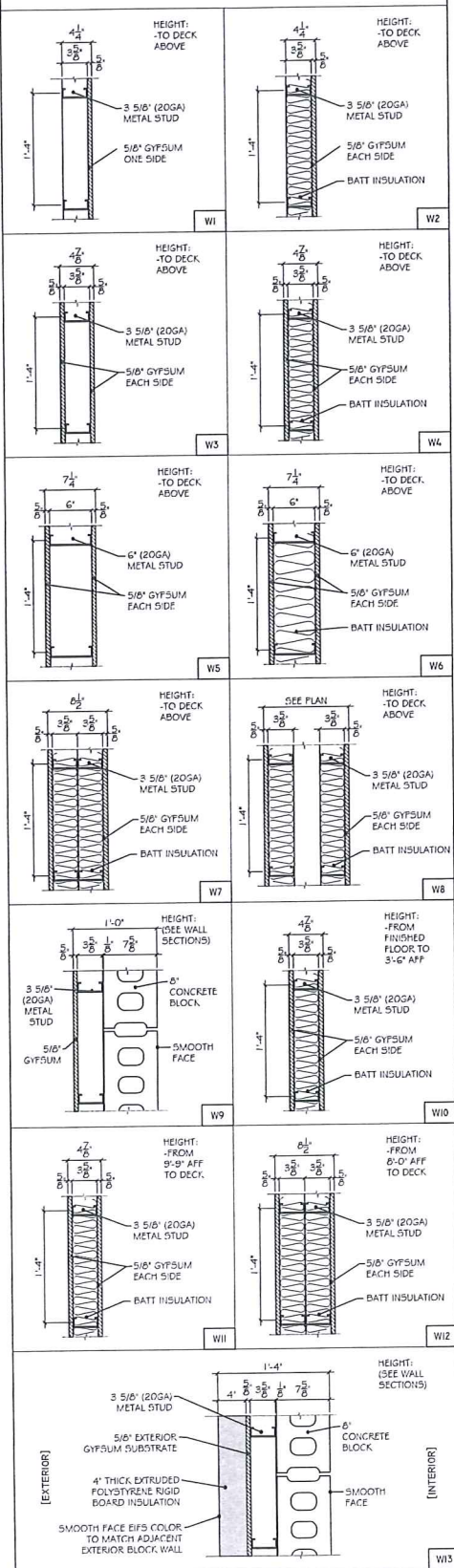
DOOR HARDWARE, LOCKSETS AND METAL FRAMES SHALL BE INSTALLED BY THE CONTRACTOR AS PER THE DOOR SCHEDULE, UNLESS NOTED OTHERWISE. LOCKSETS SHALL MATCH EXISTING TYPE (IF APPLICABLE). FINISH SHALL BE TO MATCH EXISTING BUILDING STANDARD OR #626 "SATIN CHROME PLATED", UNLESS NOTED OTHERWISE.

ALL DOORS SHALL BE INSTALLED IN 1 1/2" GUGE HOLLOW METAL FRAMES, UNLESS NOTED OTHERWISE. FRAMES SHALL BE FULLY WELED AND SHALL BE SHOP PRIMED, UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL COORDINATE THE FABRICATION AND INSTALLATIONS OF ALL DOORS AND METAL FRAMES TO ACCOMMODATE DOOR CLOSURES. ALL DOOR HARDWARE FINISHES TO MATCH (UNLESS NOTED OTHERWISE)

CONTRACTOR TO INSTALL DOOR STOPS AT ALL DOOR LOCATIONS

1. ALL INTERIOR STUDS AT 16" O.C. UNLESS NOTED OTHERWISE (TYPICAL)
2. ALL EXTERIOR STUDS AT 16" O.C. UNLESS NOTED OTHERWISE (TYPICAL)
3. ALL GYPSUM BOARD ON PLUMBING WALLS TO BE MOISTURE RESISTANT TYPE (TYPICAL)
4. ALL EXTERIOR WALLS INSULATED (TYPICAL)
5. SOUND ATTENUATION / UNFACED BATT INSULATION - ACOUSTICAL PERFORMANCE PROVIDED BY A LIGHT DENSITY MINERAL FIBER TYPE COMPLYING WITH ASTM S53.7 FOR TYPE I...WIDTH OF BATT SHALL BE SIZED TO FIT STUD OPENING AND FILL ALL VOIDS IN WALL CAVITIES. PROVIDE UNFACED BATTING IN ALL WALLS AS INDICATED BY WALL SCHEDULE BELOW

[illegible]

NO.	NAME	DESCRIPTION	REMARKS
PULLS			
P-1	PUSH-PULL	KAWNEER 190 NARROW STYLE (OAS)	
P-2	LEVER SET	BEST 9K SERIES LEVER 15-D	
P-3	FULL PLATES; PUSH PLATES	ROCKWOOD; FULL PLATE BF 105 X 70C (4" X 1 1/2") ; PUSH PLATE 70C (4" X 1 1/2")	
P-4	LEVER/PANIC BAR	BEST 9K SERIES LEVER 15-D (EXTERIOR) - PANIC BAR (INTERIOR)	
P-5	LEVER SET WITH CARD READER	BEST 9K SERIES LEVER 15-D WITH EST CARD READER	
LOCKS			
L-1	ENTRANCE FUNCTION	OUTSIDE UNLOCK BY KEY	INSIDE ALWAYS UNLOCKED BY TURNING LEVER
L-2	CLASSROOM FUNCTION	UNLOCK BY KEY	ALWAYS UNLOCKED BY TURNING LEVER
L-3	PASSAGE FUNCTION	ALWAYS UNLOCKED	ALWAYS UNLOCKED
L-4	EXIT ONLY FUNCTION	UNLOCK BY KEY/READER; ALWAYS LOCKED	ALWAYS UNLOCKED BY TURNING LEVER
L-5	STOREROOM FUNCTION	UNLOCK BY KEY/READER; ALWAYS LOCKED	ALWAYS UNLOCKED BY TURNING LEVER
L-6	PRIVACY FUNCTION	CONTROLLED BY INSIDE BUTTON	TURN LEVER TO UNLOCK
L-7	STOREFRONT FUNCTION	UNLOCK BY KEY	SEE NOTE #6
L-8	ELECTRIC LATCH FUNCTION	UNLOCKED BY KEY / READER	ALWAYS UNLOCKED BY TURNING LEVER
L-9	STOREFRONT FUNCTION (CARD READER)	UNLOCKED BY KEY / READER	ALWAYS UNLOCKED BY TURNING LEVER
L-10	DEAD BOLT LOCK	UNLOCK BY KEY	ALWAYS UNLOCKED BY TURNING LATCH
HINGES			
H-1	STOREFRONT SYSTEM	KAWNEER SINGLE ACTING TOP, BOTTOM, INTERMEDIATE W/NO REMOVABLE PINS	
H-2	HOLLOW METAL FRAME SYSTEM	HAGER BB 1279 4.5 X 4.5 US26D	
CLOSER			
C-1	STOREFRONT SYSTEM	KAWNEER SINGLE ACTING; NORTON 1605 BC	
C-2	HOLLOW METAL FRAME SYSTEM	LCH SERIES 4000	
KICKS			
K-1	STOREFRONT SYSTEM	KAWNEER STOREFRONT BOTTOM RAIL 10"	
K-2	SOLID CORE WOOD DOOR SYSTEM	ROCKWOOD METAL DOOR PLATE K1050 (8" X 34")	
STOPS			
S-1	FLOOR MOUNTED	HANGAR 2469 DOME RISER PLATE	
S-2	WALL MOUNTED	HANGAR 243F DOME STOP HIGH	
THRESHOLD			
T-1	STOREFRONT SYSTEM	KAWNEER FOR SINGLE ACTING DOORS 1/2" X 4" ALUMINUM THRESHOLD	
T-2	HOLLOW METAL FRAME SYSTEM	NATIONAL GUARD; 1/2" X 6" #42BE	
WEATHER			
W-1	STOREFRONT SYSTEM	KAWNEER FOR SINGLE ACTING DOORS SEALAIR WEATHERING SYSTEM	
W-2	HOLLOW METAL FRAME SYSTEM	NATIONAL GUARD; 160V; 98V	
MISC			
M-1	DOUBLE DOOR HARDWARE	RECESSED JAMB BOLT FOR INACTIVE LEAF TOP AND BOTTOM (ACTIVATED BY LEVER)	PROVIDE METAL ASTRAGAL
M-2	DOUBLE CAR ACCESS DOORS	RECESSED JAMB BOLT FOR INACTIVE LEAF TOP AND BOTTOM	

1. NO EXIT DOOR IS ALLOWED TO LOCK IN THE DIRECTION OF EXIT REQUIRED EXIST DOORS SHALL BE OPERATED BY MEANS OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. ALL HARDWARE MUST BE SPECIFICALLY REQUIREMENTS NO MORE THAN ONE OPERATION.
2. CONTRACTOR TO USE "CONSTRUCTION CODES" UNTIL SPECIFICATIONS ARE RECEIVED.
3. ALL HOLLOW METAL EXTERIOR DOOR FRAMES TO BE FULLY GROUND.
4. FURNISH AND INSTALL SILENCERS ON ALL DOORS AND FRAME ASSEMBLIES (DO NOT PAINT SILENCERS)
5. PROVIDE FULL WEATHER STRIPPING AS PER DOOR MANUFACTURE ON ALL EXTERIOR DOORS.
6. ALL DOORS AND HARDWARE TO BE COMPLETE AND FULLY OPERATIONAL INCLUDING, BUT NOT LIMITED TO: LEVERS, PANIC BARS, HIKES, SILENCERS, WEATHER STRIPPING, LOCKS, LATCHES, PULLS, PUSH PLATES, LATCHES, PULLS, PEED HOLES, ALARMS, AND ETC.
7. DOOR LOCK SET TO BE KEPT TO UNLOCKED DURING NORMAL BUSINESS HOURS.
8. ALL EXTERIOR DOORS TO HAVE BURNED TIP OFF UNLESS NOTED OTHERWISE.

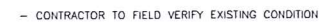
HM - HOLLOW METAL
SW - SOLID WELD
SC - SOLID CORE
GA - GAUGE
ALUM - ALUMINUM
WD - WOOD
STN - STAIN
THRES - THRESHOLD
WS - WEATHERSTRIPPING
CR - CARD READER

SEE SCHEDULE SEE SCHEDULE A	SEE SCHEDULE SEE SCHEDULE 1/2" 1/2" 1/2" 1/2" CLEAR GLASS B	SEE SCHEDULE SEE SCHEDULE 1/2" 1/2" 1/2" 1/2" AFFLIED FILM SOLYX FILM C	SEE SCHEDULE SEE SCHEDULE D	SEE SCHEDULE SEE SCHEDULE 1/2" 1/2" 1/2" 1/2" AFFLIED FILM SOLYX FILM RATED ASSEMBLY E	SEE SCHEDULE SEE SCHEDULE 1/2" 1/2" 1/2" 1/2" WOOD LOUVER F	SEE SCHEDULE SEE SCHEDULE 1/2" 1/2" 1/2" 1/2" WOOD LOUVER G
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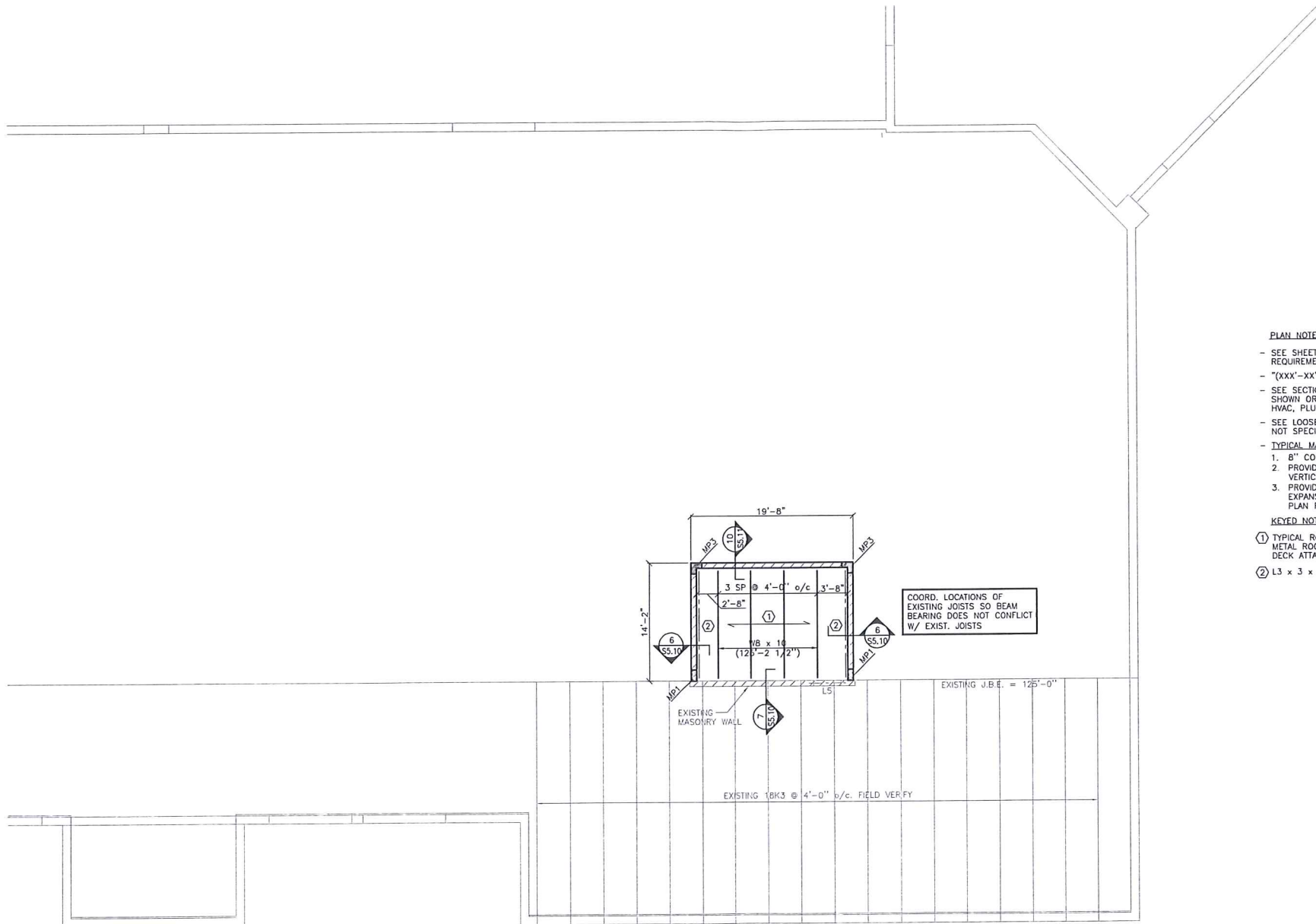
F 1	F 2	F 3	F 4	F 5	F 6	F 7
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A. ALL INTERIOR WOOD DOORS TO BE SOLID CORE PLAIN SLICED WHITE MAPLE CLEAR STAIN

B. ALL INTERIOR METAL DOOR FRAMES TO BE SOLID WELD SMOOTH CORNER HOLLOW METAL FRAMES, SHOP PRIMED



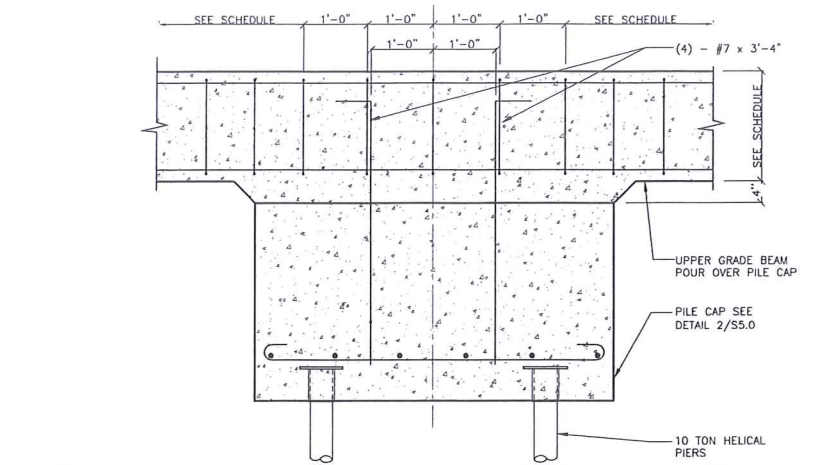
2. EXISTING VENTILATION SYSTEM SECTION
UNDER FLOOR SLAB



- PLAN NOTES**
- SEE SHEET S9.0 FOR GENERAL NOTES, SCHEDULES AND OTHER ADDITIONAL REQUIREMENTS.
 - "(XXX'-XX")" INDICATES TOP OF STEEL BEAM ELEVATION.
 - SEE SECTION 9/55.11 FOR FRAMING AROUND MISCELLANEOUS OPENINGS SHOWN OR NOT SHOWN. COORDINATE SIZE AND LOCATION WITH ARCH, HVAC, PLUMBING, AND ELECTRICAL DWGS.
 - SEE LOOSE LINTEL SCHEDULE AND GENERAL NOTES FOR ANY LINTELS NOT SPECIFICALLY CALLED OUT.
 - **TYPICAL MASONRY WALL:**
 1. 8" CONCRETE BLOCK GROUTED SOLID FULL HEIGHT.
 2. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" o/c MAXIMUM, VERTICALLY FOR THE FULL WALL HEIGHT.
 3. PROVIDE (1) - #5 AT CORNERS, ENDS AND EACH SIDE OF CONTROL AND EXPANSION JOINTS, OPENINGS, DOORS, WINDOWS, JAMBS, ETC. U.N.O. SEE PLAN FOR MASONRY PIER REQUIREMENTS.
- KEYED NOTES**
- ① TYPICAL ROOF CONSTRUCTION: 1 1/2" x 22 GAUGE WIDE RIB GALVANIZED METAL ROOF DECK, 3 SPAN MINIMUM. SEE DETAIL 1/55.10 FOR ROOF DECK ATTACHMENT AND GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
 - ② L3 x 3 x 1/4 x CONT. FOR DECK SUPPORT. SEE SECTION 6/55.10

① HIGH ROOF FRAMING PLAN

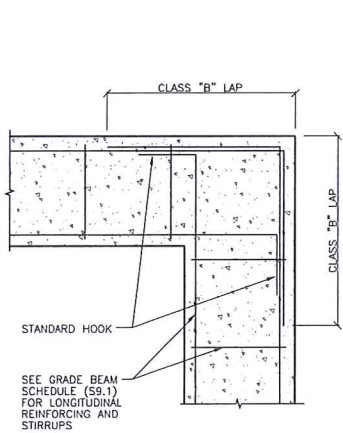
1/8" = 1'-0"



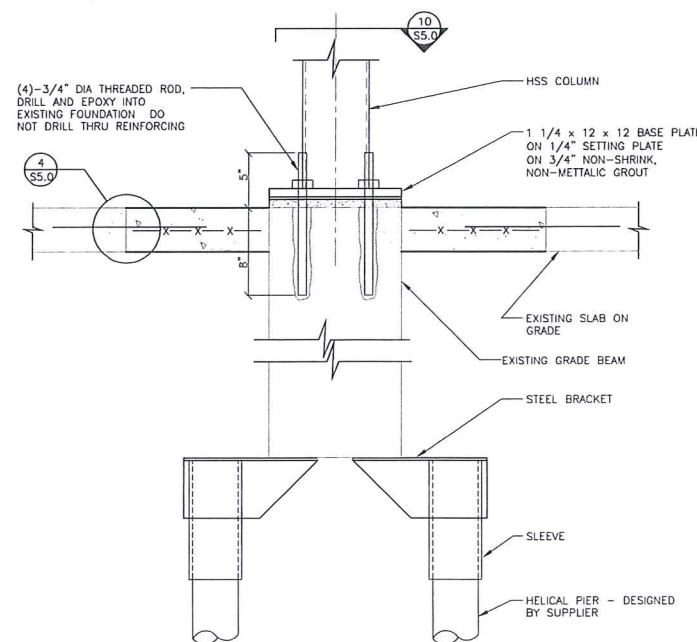
GRADE BEAM SCHEDULE						
MARK	WIDTH	DEPTH	REINFORCING			REMARKS
			TOP BARS	BOTTOM BARS	SIDE BARS	
GB1	16"	48"	(2) - #8	(2) - #8	(4) - #5	#3 @ 18" o/c

1 GRADE BEAM ON PILE CAP DETAIL

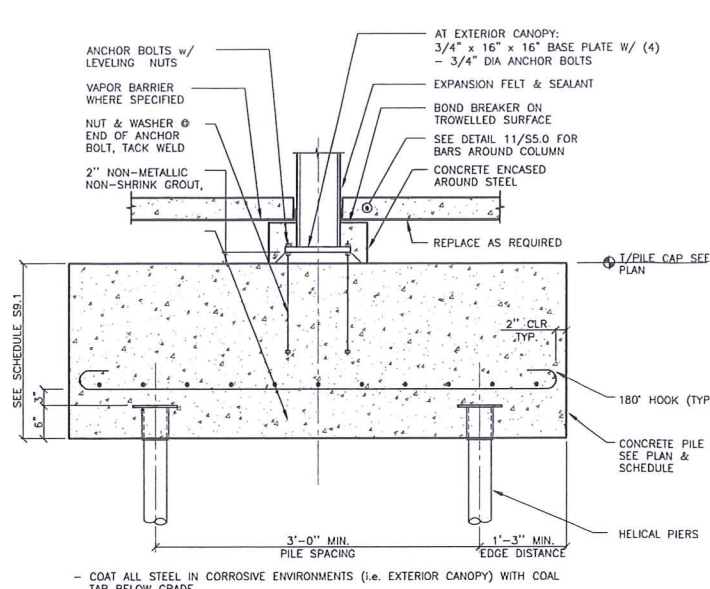
1. CONCRETE: SEE SPECIFICATION
2. PROVIDE 2" CLEAR COVER TO STIRRUPS
3. ALL LONGITUDINAL BARS TO BE CONTINUOUS (MULTI-SPAN ALLOWED) WHERE REQUIRED PROVIDE CLASS "A" LAPS LAP TOP BARS AT CENTER OF SPAN LAP BOTTOM BARS AT SUPPORTS. PROVIDE CLASS "C" LAPS FOR SIDE BARS. NO LAPS ALLOWED FOR SINGLE SPAN BEAMS. PROVIDE STANDARD HOOKS AT ENDS OF BEAMS FOR ALL BARS.



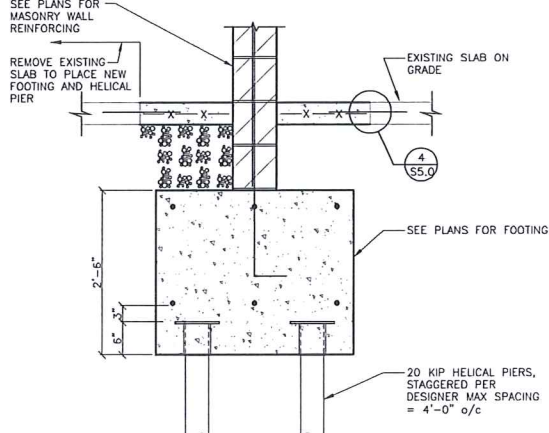
5 GRADE BEAM CORNER REINFORCING



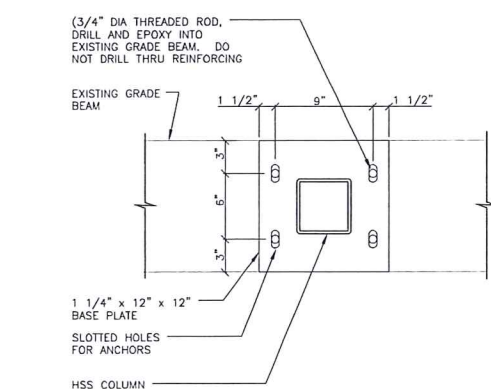
9 NEW COLUMN AT EXISTING GRADE BEAM



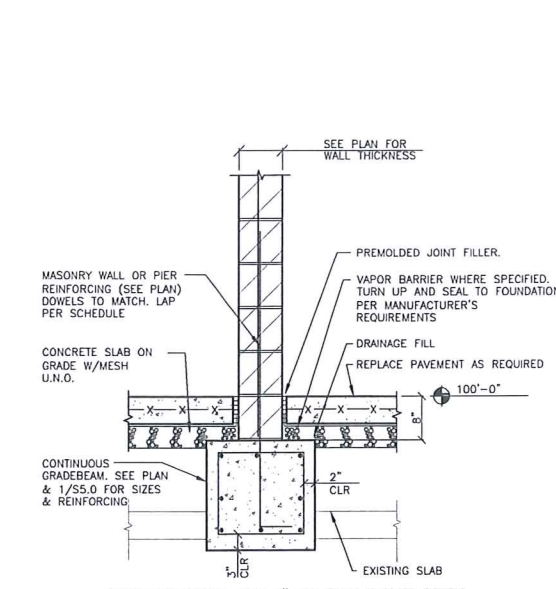
2 TYP. SECTION THRU PILE CAP @ CONCRETE COLUMN



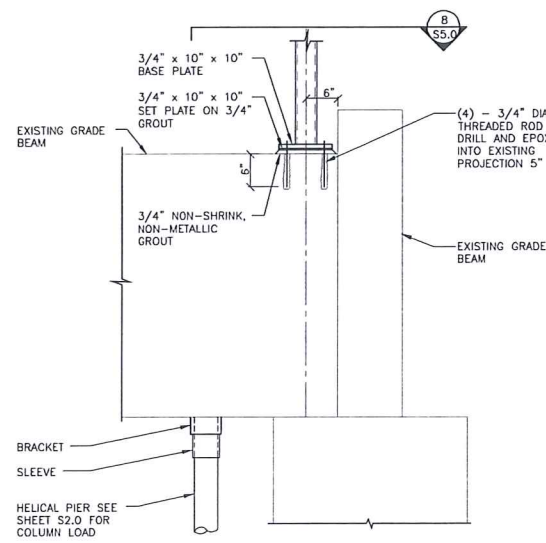
6 WALL ON FOOTING



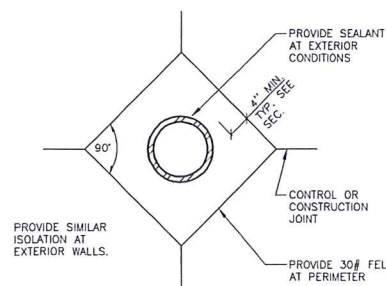
10 COLUMN BASE DETAIL



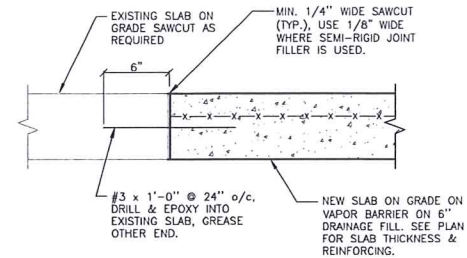
3 MASONRY WALL ON GRADE BEAM



7 NEW COLUMN AT EXISTING GRADE BEAM

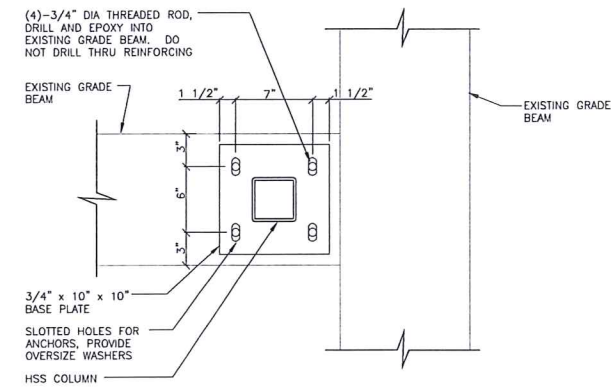


11 JOINT AT COLUMNS



4 NEW SLAB ON GRADE AT EXISTING

- FILL JOINT WITH POLYURETHANE SEALANT AT EXPOSED CONCRETE.
- FILL JOINT WITH EPOXY JOINT FILLER (100% SOLIDS, 50 MIN. SHORE D HARDNESS) IN MANUFACTURING AND WAREHOUSE AREAS.
- SEAL NEW AND OLD VAPOR BARRIERS TOGETHER



8 NEW COLUMN AT EXISTING GRADE BEAM

REVISIONS

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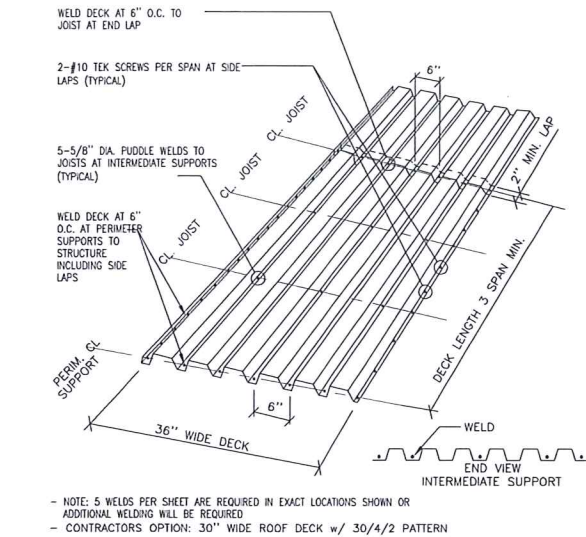
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HARWOOD ENGINEERING CONSULTANTS, LTD.
255 North 21st Street Milwaukee Wisconsin 53233
414.475.5554 414.723.9299 Fax: 414.723.9299
PEC Project Number: 19H123.00

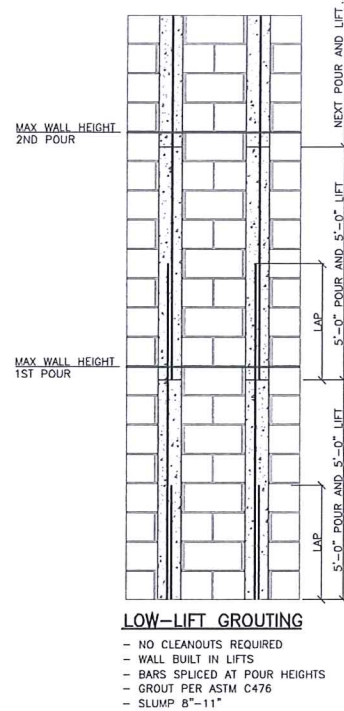
BY: REF: DU/AMC PROJ: 16095 DATE: 17 NOV 2017

S5.0

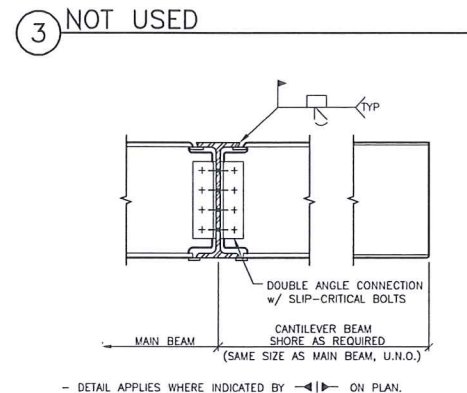
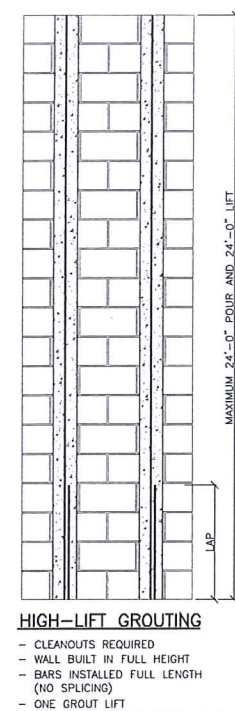
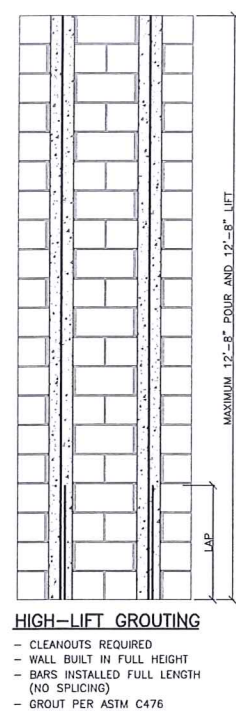
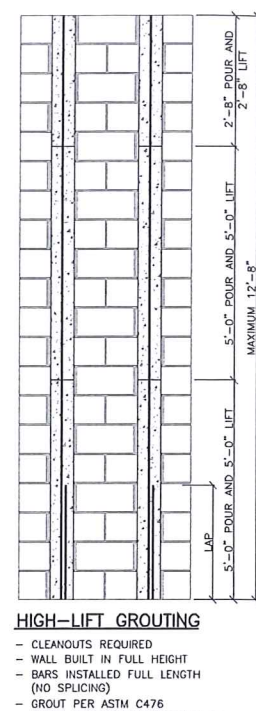
DETAILS



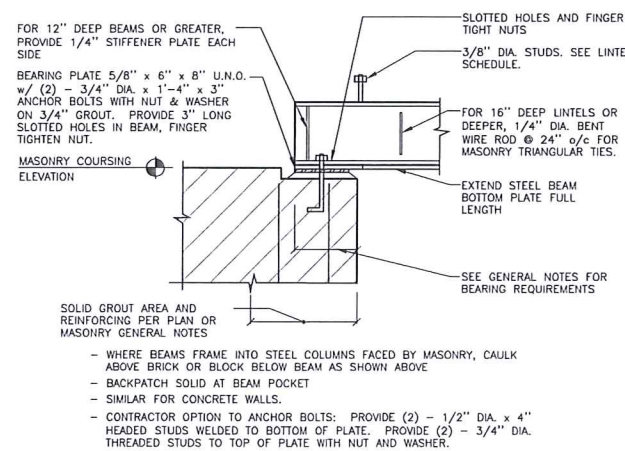
1 1.5" ROOF DECK WELD PATTERN



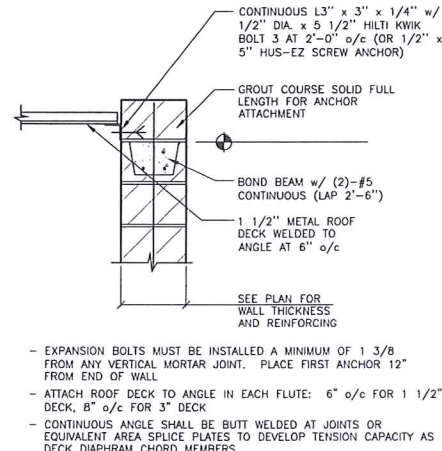
2 COMPARISON OF GROUTING METHODS FOR CONCRETE MASONRY WALLS



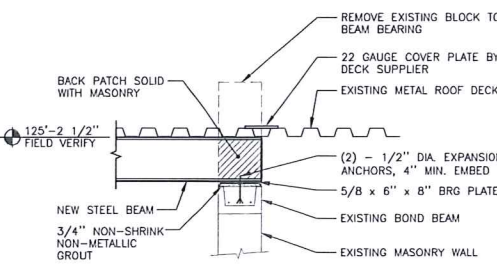
4 BEAM TO BEAM MOMENT CONNECTION



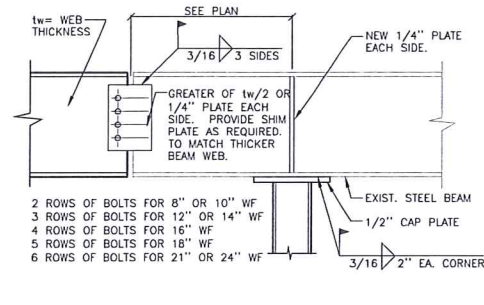
5 STEEL BEARING ON MASONRY



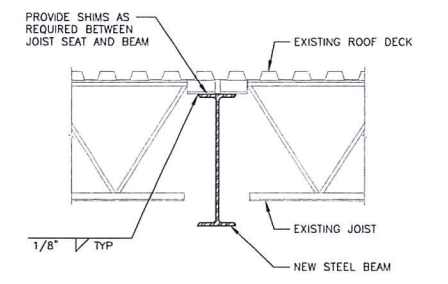
6 DECK SUPPORT AT MASONRY WALL



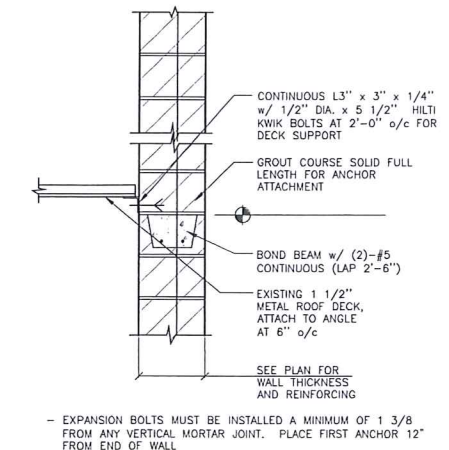
7 NEW BEAM ON EXISTING MASONRY



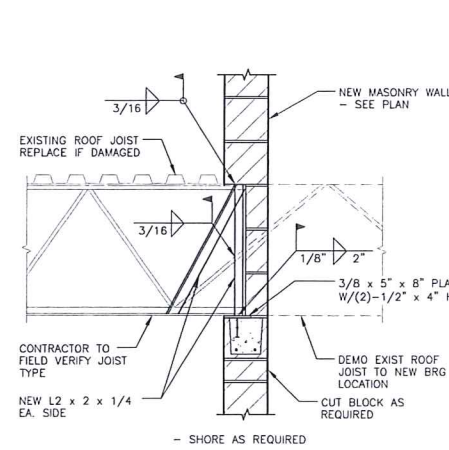
8 TYPICAL SHEAR SPLICE DETAIL



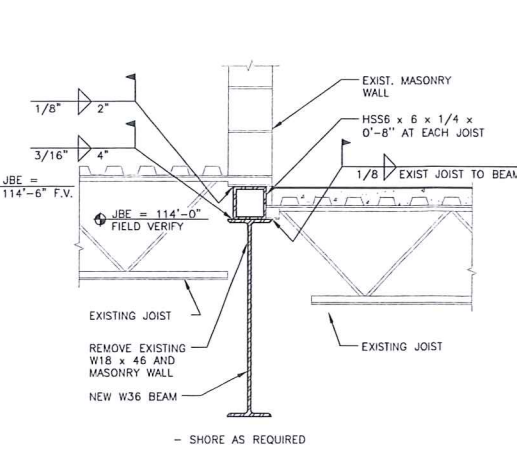
9 EXIST JOIST TO STEEL BEAM



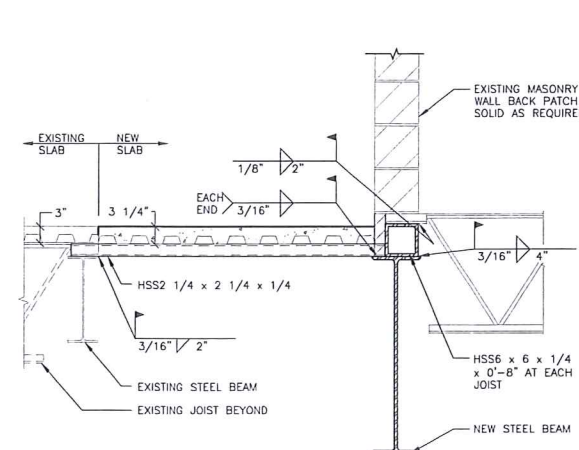
10 DECK SUPPORT AT MASONRY WALL



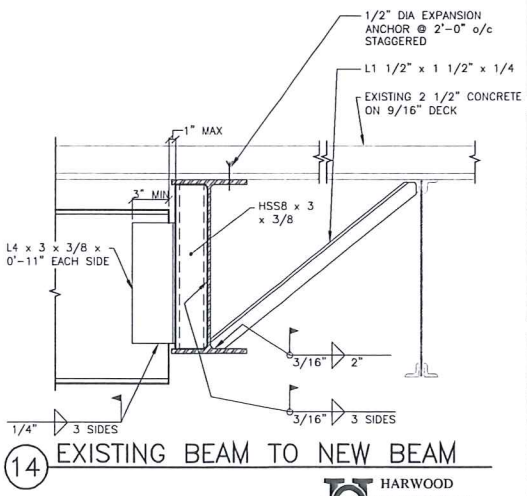
11 EXISTING JOIST AT NEW MASONRY



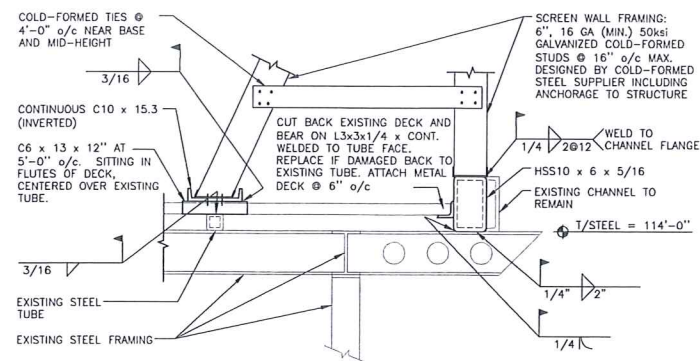
12 SECTION



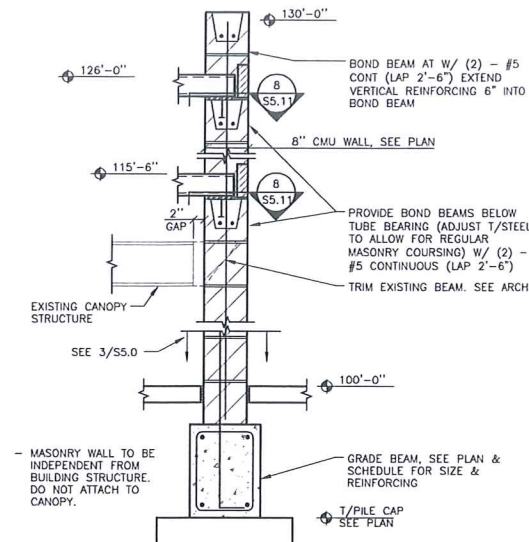
13 STAIR INFILL SECTION



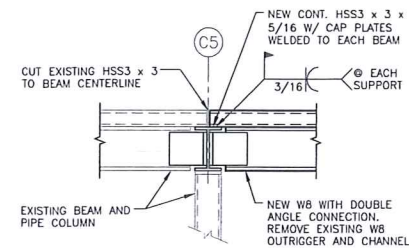
14 EXISTING BEAM TO NEW BEAM



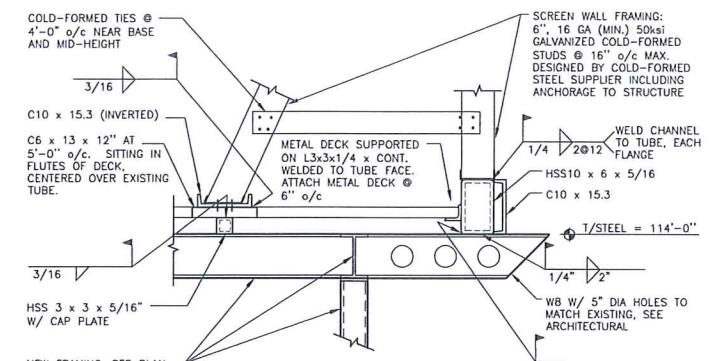
① SCREEN WALL AT EXISTING CANOPY
REF. A4.1.1



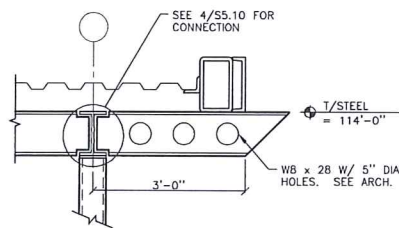
② MASONRY SIGN WALL



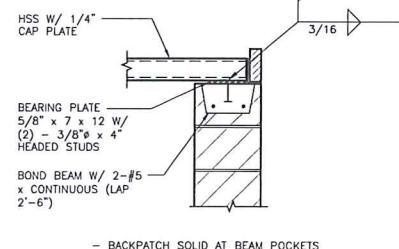
③ CANOPY FRAMING DETAIL



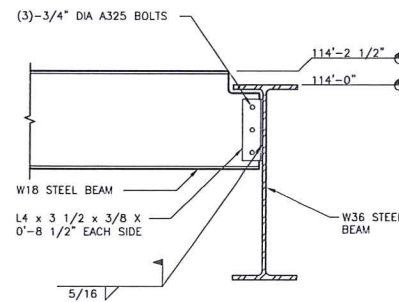
④ SCREEN WALL AT NEW CANOPY
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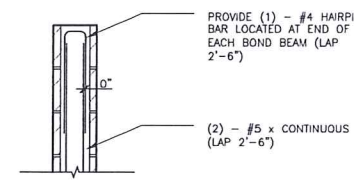
⑤ CANOPY OUTRIGGER



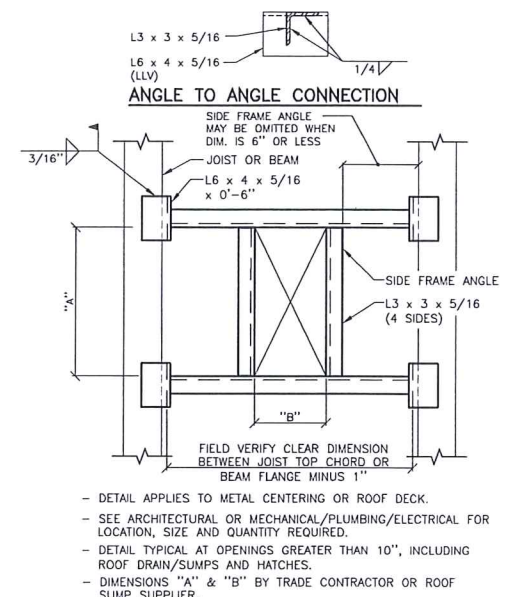
⑥ TUBE BRACE ANCHOR PLATE



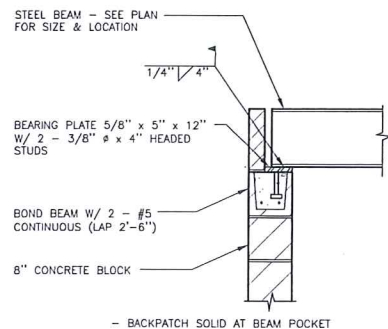
⑦ BEAM CONNECTION



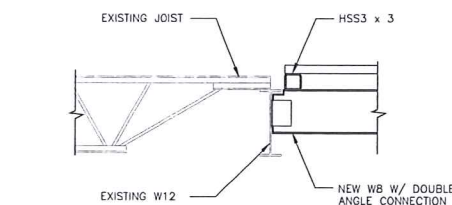
⑧ BOND BEAM DETAIL



⑨ FRAMING AT DECK OPENINGS
(1 1/2" HIGH DECK OR LESS)



⑩ STEEL BEARING ON MASONRY



⑪ CANOPY CONNECTION TO EXISTING

REVISIONS

DENTON ARCHITECTURE
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HSC Project Number: 17-1123.00

BY: **W**
REF: **DU/M/C**
PROJ: 16095
DATE: 17 NOV 2017
S5.11
DETAILS

GENERAL:

THE FOLLOWING NOTES SHALL APPLY TO ALL CONTRACTORS, SUBCONTRACTORS, AND SUPPLIERS ENGAGED IN EXECUTION OF THE WORK SHOWN ON THESE PLANS.

ALL CONSTRUCTION SHALL BE EXECUTED IN CONFORMANCE WITH THE FOLLOWING:

- DRAWINGS AND SPECIFICATIONS
- ALL LOCAL BUILDING AND SAFETY CODES
- STATE OF WISCONSIN BUILDING CODE AND IBC 2009
- WHEREVER CONFLICTS EXIST, THE MORE STRINGENT OR COSTLY SHALL APPLY.

CONTRACTOR TO CROSS CHECK AND COORDINATE WITH CIVIL, ARCHITECTURAL, HVAC, PLUMBING, FIRE PROTECTION, AND ELECTRICAL PLANS INCLUDING OTHER BID PACKAGES, FOR OTHER DETAILS, DIMENSIONS, ELEVATIONS, OPENINGS, INSERTS, BRICK LEDGES, ETC. ARCHITECT OR ENGINEER TO BE NOTIFIED OF ANY VARIANCE BEFORE CONTRACTOR BEGINS WORK OR SHOP DRAWINGS. RESOLVE APPARENT DEFICIENCIES, CONTRADICTIONS, INCONSISTENCIES AND AMBIGUITIES IN CONTRACT DOCUMENTS WITH ARCHITECT/ENGINEER DURING THE BID PERIOD. IF ANY SUCH CONDITION CANNOT BE RESOLVED DURING THE BID PERIOD, SUBMIT BID USING THE INTERPRETATION RESULTING IN THE GREATEST COST AND RESOLVE SUCH ITEMS PRIOR TO BEGINNING THE WORK.

DIMENSIONS SHOWN ON ARCHITECTURAL DRAWINGS SUPERSEDE DIMENSIONS SHOWN ON STRUCTURAL PLANS. THE USE OF A SCALE TO OBTAIN DIMENSIONS NOT SHOWN ON DRAWINGS IS NOT PERMITTED.

IN NO CASE SHALL STRUCTURAL REPAIRS, CORRECTIONS, ALTERATIONS OR WORK AFFECTING A STRUCTURAL MEMBER BE MADE, UNLESS APPROVED BY ENGINEER. SUBMIT DETAILS AND CALCULATIONS PREPARED BY A PROFESSIONAL ENGINEER AND EMPLOYED BY CONTRACTOR. A/E DESIGN AND/OR REVIEW IS CONTRACTOR'S EXPENSE.

THE STRUCTURE SHOWN IN THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, SHORING, PAYS OR TIE-DOWNS AS MAY BE NECESSARY, ALL CONSTRUCTION AND ERECTION TO CONFORM TO APPLICABLE SAFETY CODES AND REGULATIONS. WHERE TEMPORARY BRACING, GUYS OR TIE-DOWNS ARE ANCHORED TO STRUCTURE, E.G. SLAB-ON-GRADE, CONTRACTOR SHALL HIRE A BRACING DESIGNER/ENGINEER TO VERIFY, THROUGH CALCULATION, STRUCTURAL ADEQUACY FOR APPLIED LOADS, AND SHALL PROVIDE NECESSARY DESIGN AND DETAILS IF FOUND DEFICIENT.

WHERE DETAILS ARE CALLED FOR IN A CERTAIN PORTION OF THE BUILDING, THEY SHALL APPLY IN SIMILAR PORTIONS OF THE BUILDING UNLESS SHOWN OTHERWISE.

PRIOR TO CONSTRUCTION AND SHOP DRAWINGS, CONTRACTOR SHALL SURVEY AND VERIFY EXISTING BUILDING DIMENSIONS, ELEVATIONS, ORIENTATION AND CONDITIONS AND REPORT ANY NON-CONFORMANCE WITH DESIGN DRAWINGS. ACTUAL SURVEY LOCATION OF EXISTING CONSTRUCTION SHALL BE COORDINATED WITH CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PROCEEDING.

PROVIDE A COMPLETE SET OF CONTRACT DRAWINGS, SPECIFICATIONS, AND ADDENDA TO ALL PARTIES RESPONSIBLE FOR COMPONENT DESIGNS, E.G. LIGHT GAGE, ETC. AND/OR PREPARATION OF SHOP DRAWINGS.

THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, DESIGN CALCULATIONS, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS TO THE CONTRACT DOCUMENTS AND OBTAIN ENGINEER'S WRITTEN APPROVAL BEFORE PROCEEDING.

A/E SERVICES RELATED TO SUBSTITUTIONS OR CHANGES PROPOSED BY THE CONTRACTOR OR TRADE SUBCONTRACTORS ARE THE CONTRACTOR'S EXPENSE. DO NOT RELY ON ACCEPTANCE IN PREPARING BIDS. THE A/E MAY REJECT WITHOUT CAUSE.

WORK AFFECTED BY OTHERS: FRAMING, BRACING, LOADS, OPENINGS, PENETRATIONS AND STRUCTURE IN ANY WAY RELATED TO OTHER TRADES INCLUDING ELEVATORS, HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS (IF SHOWN) IS FOR BIDDING PURPOSES ONLY. RESPONSIBILITY FOR COORDINATING THE WORK OF THIS SECTION WITH THESE REQUIREMENTS IS SOLELY THAT OF THE CONTRACTOR. CONTRACTOR'S REVIEW OF SHOP DRAWINGS WILL BE TAKEN TO INDICATE THAT THIS COORDINATION HAS BEEN ACCOMPLISHED.

DEMOLITION AND SHORING:

WHERE CONFLICTS EXIST BETWEEN THE SPECIFICATIONS, GEOTECHNICAL REPORT AND THESE NOTES, THE MORE STRINGENT SHALL APPLY UNLESS OTHERWISE CLARIFIED IN WRITING BY STRUCTURAL ENGINEER.

DEMOLITION WORK SHALL BE PERFORMED ACCORDING TO THE SPECIFICATIONS AND SHALL BE STRICTLY LIMITED TO THE AREAS AND ITEMS CLEARLY DEFINED ON THE DRAWINGS. ALL DEMOLITION SHALL BE CONDUCTED IN A CLEAN, WORKMANLIKE MANNER AND SHALL MINIMIZE DISRUPTION TO ADJACENT BUILDING ITEMS AND FEATURES BEYOND THE CURRENT WORK.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE START OF WORK AND SHALL BECOME FAMILIAR WITH THE EXISTING CONDITIONS, LIMITATIONS AND ANY FEATURES WHICH MAY EFFECT THE PROPOSED DEMOLITION. THE CONTRACTOR SHALL BEAR THE FULL RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL TEMPORARY SHORING TO BE USED.

DIMENSIONS ON THE DRAWINGS ARE TO BE FIELD VERIFIED PRIOR TO THE START OF THE WORK. CONTACT THE ARCHITECT IMMEDIATELY IF SIGNIFICANT DEVIATIONS ARE ENCOUNTERED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE WORK BY ALL TRADES.

ALL CONCRETE TO BE REMOVED SHALL BE SAW-CUT A MINIMUM OF 1" DEEP PRIOR TO FINAL BREAK-OUT. PROVIDE A CLEAN, GRADUAL TRANSITION BETWEEN WORK WHICH IS TO REMAIN AND WORK TO BE REMOVED.

REINFORCED CONCRETE:

ALL CONCRETE WORK TO CONFORM TO ACI 318 AND ACI 301. REINFORCING, DETAILING, FABRICATION, AND ERECTION TO CONFORM TO ACI 315, MANUAL OF STANDARD PRACTICE. (LATEST EDITION)

CONCRETE CONTRACTOR TO PROVIDE AND COORDINATE WITH ALL OTHER TRADES FOR SIZE AND LOCATIONS OF ALL OPENINGS, SLEEVES, ETC. OCCURRING IN WALLS, FOOTINGS AND FLOORS. NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY STRUCTURAL ENGINEER. ALL OPENINGS THROUGH CONCRETE WALLS AND SLABS SHALL HAVE 2 - #5 BARS PLACED ALONG FACES AND EXTENDING 2'-0" BEYOND CORNERS UNLESS OTHERWISE NOTED. PROVIDE 1 - #5 x 4'-0" DIAGONAL BAR AT EACH CORNER PLACED IN EACH FACE OF WALL OR SLAB.

NO PLUMBING OR MECHANICAL OPENINGS, SLEEVES, ETC. ARE ALLOWED THRU CONCRETE BEAMS OR FOOTINGS UNLESS SHOWN ON CONCRETE SHOP DRAWINGS AND APPROVED BY ENGINEER.

PROVIDE ADDITIONAL BENT CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT ALL CORNERS AND WALL INTERSECTIONS.

SLABS ON GRADE SHALL HAVE WWF 6x6 - W1.4xW1.4 REINFORCING MESH UNLESS OTHERWISE NOTED. ALL MESH TO BE LAPPED A MINIMUM OF 12". REINFORCE WITH TWO (2) - #5, 3'-0" LONG AT ALL RE-ENTRANT (INSIDE) CORNERS.

PROVIDE 3/8" APPROVED EXPANSION JOINT MATERIAL WHERE SLABS ON GRADE ABUT WALLS, COLUMNS, AND OTHER VERTICAL SURFACES UNLESS OTHERWISE INDICATED ON PLANS. PROVIDE ISOLATION JOINTS AROUND EQUIPMENT PADS, DRAINS, MANHOLES, SUMPS OR OTHER POINTS OF RESTRAINT.

MAXIMUM SLAB ON GRADE SPACING BETWEEN CONTROL OR CONSTRUCTION JOINTS SHALL BE AS FOLLOWS: 10FT FOR 4" SLABS, 12.5FT FOR 5" SLABS, 15FT FOR 6" SLABS OR GREATER. DO NOT PROVIDE CONTROL JOINTS IN SLABS ON METAL DECK, OR PRECAST COMPOSITE TOPPING, U.N.O.

MAXIMUM LENGTH OF CONCRETE WALL POUR IS 60 FEET, WITH NO LENGTH LIMIT FOR NON-EXPOSED, NON-BASEMENT FROST WALLS. PROVIDE CONSTRUCTION JOINT KEY WITH 1/2 OF HORIZONTAL WALL REINFORCEMENT CONTINUOUS THRU JOINT. WATERSTOPS SHALL BE PROVIDED FOR RETAINING WALLS AND BASEMENT WALLS EXPOSED TO EARTH OR WEATHER. DO NOT LOCATE JOINTS WITHIN 5 FEET OF A CORNER OR PIER.

CENTER PIERS AND COLUMN FOOTINGS ON COLUMN CENTERLINES, AND CENTER WALL FOOTINGS ON WALL CENTERLINES, UNLESS NOTED OTHERWISE.

PROVIDE POCKETS IN CONCRETE WALLS FOR STEEL BEAMS AND COLUMN BASE PLATES WHERE REQUIRED. BACK PATCH WITH CONCRETE.

THE NUMBER OF BARS REQUIRED BY NOTES AND SCHEDULES CONTROLS OVER THE NUMBER OF BARS SHOWN ON DETAILS.

SPICES IN CONTINUOUS REINFORCING: ALL BARS TO BE CLASS "B" LAP SPICES PER LATEST ACI 318 UNLESS OTHERWISE NOTED. DIMENSION LENGTHS OF ALL LAP SPICES ON SHOP DRAWING PLANS AND ELEVATIONS. COLUMN TIE SPICES SHALL BE SUCCESSIVELY STAGGERED 90 DEGREES OR 180 DEGREES. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND DIMENSIONS OF INSERTS, OPENINGS, SLEEVES, WASHES, DRIPS, REVEALS, NOTCHES, BLOCKOUTS, REGLETS, FINISHES, DEPRESSIONS, AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS. VERIFY ALL REQUIREMENTS WITH PERTINENT CONTRACTORS. CAST-IN ANCHORS AND PLATES SHALL NOT DISPLACE REINFORCING FROM SPECIFIED LOCATION OR REDUCE MINIMUM COVER. CONTRACTOR SHALL HIRE A SURVEYOR TO ACCURATELY LOCATE CAST-IN WELD PLATES. CONTRACTOR IS RESPONSIBLE FOR ENGINEERING COSTS ASSOCIATED WITH MISLOCATED EMBED PLATES.

CONCRETE CURBS AND PADS 1'-0" OR NARROWER SHALL BE REINFORCED WITH 1 - #5 CONTINUOUS IN CENTER UNLESS SHOWN OTHERWISE.

NO CONDUITS, PIPES OR DUCTS SHALL BE PLACED IN CONCRETE SLABS ON METAL DECK.

CONCRETE COVER FOR REINFORCEMENT TO CONFORM TO SECTION 7.7 OF LATEST ACI 318 UNLESS NOTED OTHERWISE ON PLANS:

NON-CORROSIVE ENVIRONMENTS	
- FOOTINGS:	TOP 2" BOTTOM AND SIDES 3"

MASONRY:

MASONRY SHALL CONFORM TO NCMA SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY, MSJC TMS 402/ACI 530 AND TMS 602/ACI 530.1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CODES AND THE IBC CODE. PLASTER LOCATIONS, BOND BEAMS, EXPANSION JOINTS, ETC. ARE TO FOLLOW THESE GUIDELINES, UNLESS NOTED OTHERWISE ON DRAWINGS. CONFORM TO MSJC CODE FOR COLD WEATHER CONSTRUCTION PROTECTION REQUIREMENTS.

THESE NOTES APPLY TO MASONRY SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS.

GROUTING AND REINFORCING: ALL MASONRY, GROUTING, AND REINFORCING WORK SHALL BE PERFORMED BY MASONRY CRAFTWORKERS WHO HAVE SUCCESSFULLY COMPLETED THE INTERNATIONAL MASONRY INSTITUTE (1.800.I.M.0.988) TRAINING COURSE FOR GROUTING AND REINFORCING MASONRY CONSTRUCTION, OR EQUAL. ALTERNATIVELY, INSTALLING CONTRACTOR SHALL ASSIGN SUPERVISION OF ALL GROUTING AND REINFORCING TO PERSONNEL WHO HAVE COMPLETED THE INTERNATIONAL MASONRY INSTITUTE (1.800.I.M.0.988) TRAINING COURSE FOR GROUTING AND REINFORCED MASONRY CONSTRUCTION, OR EQUAL. THE SUPERVISOR RESPONSIBLE FOR THE PLACEMENT OF REINFORCED ASSEMBLIES WILL BE PRESENT AT THE TIME OF EACH GROUT POUR.

BOND BEAMS, WALLS, PLASTER, AND LINTELS SHALL BE FILLED WITH CONCRETE GROUT HAVING F'C = 3000 PSI UNLESS NOTED OTHERWISE. COARSE AGGREGATE SHALL BE PEA GRAVEL. REINFORCE ALL CONTINUOUS BOND BEAMS WITH 2 - #5, U.N.O. PROVIDE CORNER BARS TO MATCH. SEE MASONRY BAR SPLICE SCHEDULE FOR REQUIRED LAPS.

LINTELS: PROVIDE PRECAST OR MASONRY LINTELS OVER ALL MASONRY OPENINGS LESS THAN 6'-0" CLEAR UNLESS NOTED OTHERWISE ON PLANS. MASON CONTRACTOR MAY USE STEEL LINTEL PER LOOSE LINTEL SCHEDULE AS AN ALTERNATE TO PRECAST OR MASONRY AT HIS EXPENSE. UNLESS SHOWN OTHERWISE, REINFORCE PRECAST AND MASONRY LINTELS AS FOLLOWS:

CLEAR SPAN	HEIGHT	REINFORCEMENT
1' TO 4'-0"	8"	1 - #5 PER 4" OF WALL THICKNESS BOTTOM
4'-0" TO 6'-0"	16"	1 - #5 PER 4" OF WALL THICKNESS, TOP & BOTTOM

6'-0" AND GREATER REFER TO LOOSE STEEL LINTEL SCHEDULE.

USE ONLY U-SHAPED LINTEL BLOCK FOR MASONRY LINTELS. CENTERLINE OF REINFORCING TO BE LOCATED 3" MAX FROM BOTTOM OF LINTEL BLOCK.

BOND BEAM LINTELS SHALL BEAR A MINIMUM OF 8" AT EACH END. THE FIRST COURSE OF MASONRY ABOVE THE LINTEL SHALL BE LAYED WITH FULL MORTAR BEDDING AT BEARING WALLS, GROUT END CELL SOLID TO FLOOR BELOW. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR SPECIAL BOND BEAM AND LINTEL CONDITIONS. SHORE LINTELS AND DOOR FRAMES UNTIL MORTAR AND GROUT ACHIEVE REQUIRED STRENGTH. DO NOT PLACE CONTROL OR EXPANSION JOINTS AT LINTEL BEARING POINTS OR ANYWHERE WITHIN THE LINTEL.

WHERE STEEL BEAMS BEAR ON MASONRY WITH BEARING PLATES, DO NOT MORTAR TIGHT TO UNDERSIDE OF BEAM. AT EXPOSED AREAS, CAULK UNDER BEAM. SEE STEEL NOTES FOR BASE PLATE REQUIREMENTS.

FOR STEEL BEAMS OR LINTELS BEARING PARALLEL TO MASONRY WALL, GROUT EACH CELL UNDER BEAM BEARING TO FOUNDATION AND PROVIDE 1 - #5 BAR IN THE END CELL, UNLESS NOTED OTHERWISE. PROVIDE 16" BEARING FOR STEEL OR PRECAST BEAMS AND LINTELS AT EACH CORNER FOR SPANS GREATER THAN 10'-0", 8" BEARING FOR SPANS LESS THAN 10'-0".

FOR STEEL BEAMS BEARING PERPENDICULAR TO MASONRY WALL, GROUT AN AREA 4 CELLS WIDE, 4 COURSES DEEP, UNLESS NOTED OTHERWISE.

GROUT COMPLETELY SOLID ALL CELLS UNDER ALL AT ALL STAIR AND ELEVATOR WALLS. SEE PLANS FOR ADDITIONAL MASONRY PIERS AND REINFORCING. WALLS AT STAIRS AND ELEVATORS SHALL BE STANDARD WEIGHT BLOCK.

GROUT CELLS SOLID AT: REINFORCING, BOND BEAMS, INSERTS, ANCHORS, ELEVATOR GUIDE RAILS, AND STAIR CONNECTIONS. MASONRY CONTRACTOR TO GROUT ENTIRE COURSE(S) SOLID WHERE EXPANSION ANCHORS ARE SHOWN/CALLED OUT ON DRAWINGS, ALL CELLS BELOW GRADE AND BELOW SLAB-ON-GRADE.

GROUTING & REINFORCING FOR PIERS ON UPPER FLOORS OF MULTI-STORY BUILDINGS MUST EXTEND DOWN TO FOOTINGS.

CONCRETE GROUT PLACEMENT IN REINFORCED MASONRY WALLS OR PIERS SHALL FOLLOW THE PROCEDURES DESCRIBED IN NCMA TEK MANUAL 23A FOR EITHER LOW-LIFT OR HIGH-LIFT GROUTING. FILLING CORES WITH MORTAR IS NOT ALLOWED. TIE BARS OR PROVIDE VERTICAL BAR POSITIONERS AT 32" o.c. TO MAINTAIN PROPER BAR POSITION DURING GROUT PLACEMENT. CLEANOUTS SHALL BE PROVIDED IN BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5 FEET.

REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING. CONTINUE VERTICAL REINFORCING FLOOR TO FLOOR (OR ROOF) AND EXTEND TO THE TOP OF PARAPET, U.N.O.

ONLY 2-CELL BLOCK IS ALLOWED FOR REINFORCED MASONRY CONSTRUCTION. VERTICAL CELLS THAT WILL BE GROUTED SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3" x 4".

GROUTING SHALL BE STOPPED 1 1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POOR JOINT.

PROVIDE FULL MORTAR BEDDING (FACE SHELLS AND WEBS) FOR ALL STARTER COURSES, FOR SOLID UNITS, AT GROUTED MASONRY AND FOR ALL COURSES OF PIERS AND PLASTER.

PROVIDE POCKETS IN MASONRY WALLS FOR STEEL BEAMS, JOISTS AND COLUMN BASE PLATES AND BACK PATCH SOLID.

DO NOT BACKFILL AGAINST WALLS UNTIL WALLS ARE TIED INTO FLOORS ABOVE.

PROVIDE HOT-DIPPED HORIZONTAL JOINT REINFORCEMENT SUCH AS DUR-O-WALL, 16 INCHES ON CENTER VERTICALLY (8" ON CENTER FOR PARAPETS) FOR RUNNING BOND WALLS, AND 8" AND 10" STACK BOND WALLS. FOR 12" STACK BOND WALLS, STANDARD HORIZONTAL JOINT REINFORCEMENT AT 8" ON CENTER, OR EXTRA HEAVY (A = 0.056' MIN) JOINT REINFORCEMENT AT 16" ON CENTER.

HORIZONTAL JOINT REINFORCING SHALL BE TERMINATED AT CONTROL JOINTS. BOND BEAM REINFORCING SHALL BE CONTINUOUS.

CONSTRUCTION SHALL BE RUNNING BOND U.N.O.

STRUCTURAL STEEL:

FABRICATION AND ERECTION OF STRUCTURAL STEEL MEMBERS SHALL BE GOVERNED BY AISC CODE OF STANDARD PRACTICE (LATEST EDITION).

STEEL CONTRACTOR TO PUNCH ALL HOLES FOR ARCHITECTURAL DETAILS.

PROVIDE AND MAINTAIN TEMPORARY BRACING OF STEEL UNTIL SECURELY INCORPORATED INTO CONSTRUCTION SUCH AS SHEAR WALLS, X-BRACING, ETC.

STEEL COLUMNS BUILT IN MASONRY SHALL HAVE ADJUSTABLE MASONRY WALL ANCHORS AT 2'-0" ON CENTER VERTICALLY EACH SIDE, LOCATED IN COURSING.

WIDE FLANGE BEAMS 12" OR DEEPER SHALL HAVE A 1/4" STIFFENER PLATE EACH SIDE AT ALL POINTS OF SUPPORT INCLUDING BEARING ENDS ON CONCRETE OR MASONRY. PROVIDE 5/8" BEARING PLATES WITH (2) - 3/4" ANCHOR BOLTS 12" LONG WITH 3" HOOKS.

EDGE ANGLES AND BENT PLATES SHALL BE FIELD INSTALLED AND STRING LINE STRAIGHT AND PLUMB FLOOR TO FLOOR. ERECTION TOLERANCE 1/4 INCH FROM PLAN DIMENSIONS. BUT WELD EDGE ANGLES AT ALL LOCATIONS TO FORM A CONTINUOUS MEMBER.

THE THICKNESS OF FIREPROOFING SHALL CONFORM TO THE U.L. FORMULA LISTED UNDER RESTRAINED BEAM RATINGS IN THE UNDERWRITER'S LABORATORY "FIRE RESISTANCE DIRECTORY". REFER TO APPLICABLE CODE AND ARCHITECTURAL DOCUMENTS FOR REQUIRED ASSEMBLY RATINGS.

UNLESS NOTED OTHERWISE FRAME AROUND ALL ROOF DECK OPENINGS LARGER THAN 10" IN DIAMETER, INCLUDING ROOF DRAINS/SUMPS, WITH 4 - L'S 3 x 3 x 5/16 DOWNTURNED FOR 1 1/2" DECK OR LESS.

STAIRS AND HANDRAILS

ALL STAIRS, LANDINGS, HANDRAILS, AND CONNECTIONS SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, AND IN CONFORMANCE TO APPLICABLE CODES AND NAAM STANDARDS INCLUDING 510, 521 AND 555. SUBMIT STAMPED CALCULATIONS AND SHOP DRAWINGS FOR REVIEW.

STAIR STRINGERS, TREADS, AND RISERS SHALL BE DESIGNED TO SUPPORT 100 PSF LIVE LOAD.

INDIVIDUAL STAIR TREADS SHALL BE DESIGNED TO SUPPORT A MINIMUM 300 POUND CONCENTRATED LOAD PLACED IN A POSITION THAT WOULD CAUSE MAXIMUM STRESS.

THE TOP RAILS OF HANDRAILS SHALL BE DESIGNED TO WITHSTAND A LOAD OF 50 PLF APPLIED IN ANY DIRECTION, OR A 200 POUND CONCENTRATED LOAD APPLIED IN ANY DIRECTION AT ANY POINT, AND HAVE ATTACHMENT DEVICES AND SUPPORTING STRUCTURE TO TRANSFER THIS LOADING TO APPROPRIATE STRUCTURAL ELEMENTS OF THE BUILDING. THESE LOADS NEED NOT BE ASSUMED TO ACT CONCURRENTLY.

FOR ALL COMPONENTS, MAXIMUM LIVE TOTAL DEFLECTION = L/360, EXCEPT USE L/600 LIVE LOAD DEFLECTION, L/480 TOTAL LOAD DEFLECTION AT MONUMENTAL, CURVED AND MAIN LOBBY STAIRS, SUCH STAIRS SHALL BE CLASSIFIED AS "ARCHITECTURAL CLASS" PER NAAM.

COORDINATE WITH ARCHITECTURAL PLANS FOR FINISHES, MINIMUM SIZES, DETAILS, AND GENERAL INTENT.

STEEL DECK - ROOF:

DECK, ACCESSORIES, AND ATTACHMENTS SHALL CONFORM TO "STEEL DECK INSTITUTE SPECIFICATIONS" (LATEST EDITION).

DECK TYPE: 1-1/2", 22 GAUGE WIDE RIB DECK (THREE SPAN MINIMUM).

DECK ATTACHMENT: SEE APPLICABLE DETAILS AND SPECIFICATIONS. ATTACH DECK 6" ON CENTER ALONG PERIMETER WALLS AND END LAPS. WELD SPLIT OR PARTIAL PANELS IN EVERY VALLEY. SHOP DRAWINGS SHALL SPECIFY TYPE OF ATTACHMENT AND FASTENER SIZES. DO NOT USE WELD WASHERS.

FOR OPENING LESS THAN 10" IN DIAMETER, PROVIDE A 22 GAUGE COVERPLATE, 6" x 24", EACH SIDE PERPENDICULAR TO DECK SPAN.

DO NOT SUSPEND POINT LOADS FROM ROOF DECK EXCEPT FOR HANGERS FOR SUSPENDED CEILINGS. SEE "WORK BY OTHERS".

THE NAME OF THE DECK FABRICATOR SHALL BE CLEARLY NOTED ON ALL SHOP DRAWING SUBMITTALS.

OPENINGS:

OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO APPROVAL. CONTRACTOR IS RESPONSIBLE FOR THE COST OF RE-ROUTING SYSTEMS TO ACCEPTABLE OPENING LOCATIONS.

CONTRACTOR SHALL DEVELOP AND SUBMIT COORDINATION DRAWINGS SHOWING SIZE AND LOCATION OF ALL OPENINGS THROUGH STRUCTURAL ELEMENTS AT EACH BUILDING LEVEL PRIOR TO SUBMISSION OF SHOP DRAWINGS FOR THAT LEVEL. ALSO PROVIDE THIS INFORMATION TO PRECASTER WHEN PRECAST IS USED. DRAWINGS SHALL BE A COMPOSITE OF OPENING REQUIREMENTS OF ALL TRADES. FOR EACH OPENING, IDENTIFY THE TRADE(S) WITH ITEMS PASSING THROUGH. UNLESS NOTED, TRADES ARE RESPONSIBLE FOR MAINTAINING THE FIRE RATING THAT WOULD HAVE EXISTED WITHOUT THE OPENING.

FOR NEW OPENINGS IN EXISTING CONCRETE CONSTRUCTION. SECURE A/E APPROVAL PRIOR TO CUTTING.

DO NOT CUT BEYOND EDGES OR CORNERS OF NEW OPENINGS. DO NOT CUT DEEPER THAN REQUIRED. WHERE SAW CUTTING IS USED, DO NOT OVER RUN CORNERS - CHIP OUT CORNERS MANUALLY.

SEE CONCRETE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

ABANDONED OPENINGS IN WALLS, FLOOR OR ROOFS SHALL BE FILLED SOLID WITH SUEL MATERIAL, SUFFICIENT TO ACHIEVE REQUIRED FIRE RATINGS AND STRUCTURAL CAPACITY. PROVIDE INFILL DETAILS TO A/E FOR REVIEW.

WORK BY OTHERS

ALL SUPPORTS, FRAMING, SUB-FRAMING, LIGHT GAGE FRAMING, MISCELLANEOUS STEEL FRAMING, METAL FABRICATIONS, BRACING, BRACKETS, HANGERS, CONNECTORS, EMBEDMENTS, FASTENERS AND ATTACHMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR WITH ITEMS BEING SUPPORTED BRACED AT THE TRADE CONTRACTOR'S EXPENSE. COMPLY WITH THE GOVERNING BUILDING CODE. SUCH ITEMS ARE NOT PART OF THE STRUCTURAL CONTRACT DOCUMENTS.

DESIGN OF PRE-ENGINEERED SYSTEMS SPECIFIED IN THE CONTRACT DOCUMENTS WHICH ARE DESIGNED OR ENGINEERED BY OTHERS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. SUBMITTALS OF SUCH SYSTEMS SHALL BE SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE. REVIEW OF SUBMITTALS BY THE ARCHITECT AND STRUCTURAL ENGINEER SHALL BE FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS WITH REGARD TO THE ARRANGEMENT AND SIZES OF MEMBERS SHOWN ON THE STRUCTURAL CONTRACT DOCUMENTS AND THE CONTRACTORS INTERPRETATION OF THE DESIGN INFORMATION INCLUDED IN THE CONTRACT DOCUMENTS. SUCH REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE ACTUAL DESIGN OF SUCH SYSTEMS. CONTRACTOR HAS FULL RESPONSIBILITY FOR DIMENSIONAL ACCURACY AND CONFORMANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS.

CONSTRUCTION MEANS AND METHODS ARE THE CONTRACTORS RESPONSIBILITY AND SHALL BE ENGINEERED AND PROVIDED BY THE TRADE CONTRACTOR. SUCH WORK INCLUDES BUT IS NOT LIMITED TO:

- EVALUATION OF STRUCTURE FOR CONSTRUCTION EQUIPMENT LOADS SUCH AS FORKLIFTS, CONCRETE PLACING EQUIPMENT, ETC.
- EVALUATION OF STRUCTURE AND INSTALLATION OF ANY NECESSARY SHORING FOR MOVING LOADS DURING INSTALLATION OF HEAVY EQUIPMENT.
- DO NOT EXCEED THE DESIGN LIVE LOAD. SHORE AS REQUIRED.

CLADDING DESIGN, INCLUDING BACK-UP SUPPORT SYSTEMS, ARE BY THE RESPECTIVE TRADE INCLUDING BUT NOT LIMITED TO LIGHT GAGE FRAMING, PRECAST, GRANITE OR OTHER STONES. CLADDING SHALL NOT RESTRICT INDEPENDENT VERTICAL OR LATERAL MOVEMENT OF THE BUILDING LEVELS.

- INFORMATION SPECIFIED ON CONTRACT DOCUMENTS SHALL BE CONSIDERED AS MINIMUM AND TO ESTABLISH DESIGN INTENT. THEY DO NOT RELIEVE THE CONTRACTOR OF DESIGN RESPONSIBILITY.

- UNLESS SPECIFIC DETAILS OR BRACING ARE SHOWN ON THE STRUCTURAL CONSTRUCTION DOCUMENTS AND SPECIFICALLY COORDINATED WITH THE ENGINEER OF RECORD, SUPPORT AND BRACING SYSTEMS SHALL NOT TRANSMIT LATERAL LOADS TO COLUMNS BETWEEN FLOORS OR TO THE BOTTOMS OR SIDES OF STEEL BEAMS OR JOISTS. THE TRADE CONTRACTORS RESPONSIBLE FOR THE ITEMS TRANSMITTING SUCH LATERAL LOADS SHALL INCLUDE THE COST IN THEIR BID FOR ENGINEERING AND PROVIDING BRACING FROM THE POINT OF ATTACHMENT TO THE TOP OF THE NEXT ADJACENT BEAM OR JOIST.

CONNECTION DESIGN TO FRAMING AND EVALUATION OF STRUCTURAL MEMBERS ADEQUACY BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE PROVIDED BY ALL TRADE SUBCONTRACTORS.

INSTALLER OF ANCHORS OR CONNECTIONS TO STRUCTURE IS RESPONSIBLE FOR ANCHOR DESIGN AND DETERMINATION OF STRUCTURAL COMPONENT ADEQUACY. DO NOT CUT REINFORCING BARS OR DAMAGE OTHER EMBEDMENTS.

MECHANICAL EQUIPMENT WEIGHTS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MAXIMUM OPERATING WEIGHTS INCLUDING CURBS AND ACCESSORIES. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER, VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANUFACTURER PRIOR TO ORDERING MATERIALS AND SHOP DRAWINGS SUBMITTALS. NOTIFY STRUCTURAL ENGINEER WHEN ACTUAL TOTAL WEIGHTS EXCEED THE WEIGHTS SHOWN ON CONTRACT DOCUMENTS. THE CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT OPENINGS AND CURB SUPPORTS WITH THE STEEL FABRICATOR AND THE EQUIPMENT SUPPLIER, PRIOR TO THE SUBMISSION OF SHOP DRAWINGS.

DO NOT SUSPEND POINT LOADS FROM CONCRETE SLABS TOTALING MORE THAN 200 LBS WITHIN ANY 50 SQUARE FEET OF CONTIGUOUS FLOOR SLAB AREA. ENGINEER AND PROVIDE SUB-FRAMING AND BRACING TO TRANSFER SUCH LOADS TO JOISTS, BEAMS, OR GIRDER AT EXPENSE OF TRADE CONTRACTOR SUSPENDING LOADS.

UNLESS SPECIFICALLY NOTED ON THE CONTRACT DOCUMENTS, NO SUPPORT PROVISION HAVE BEEN MADE FOR MISCELLANEOUS MECHANICAL, ELECTRICAL, PLUMBING OR SPRINKLER PIPE LOADS WHICH INDUCE A COMBINED AVERAGE LOAD GREATER THAN 3 PSF ON ANY GIVEN STRUCTURAL FRAMING MEMBER, U.N.O. THE CONTRACTOR SHALL COORDINATE ALL MISCELLANEOUS LOADS WITH ALL TRADES AND NOTIFY THE ENGINEER IF LOADS ARE EXCEEDED, PRIOR TO INSTALLATION BEFORE SUCH PIPING IS PLACED.

- THERE ARE NO RESTRICTIONS FOR SINGLE WATER-FILLED 4" DIAMETER PIPING PLACED PARALLEL TO FRAMING MEMBERS (JOISTS, TRUSSES, ETC.), EXCEPT FOR FRAMING AT 2'-0" o/c OR LESS, 4" DIAMETER PIPES SHALL BE LOCATED MIDWAY BETWEEN AND HUNG FROM TWO FRAMING MEMBERS - UNLESS OTHERWISE APPROVED BY STRUCTURAL ENGINEER. SUPPORT WATER-FILLED 6" DIAMETER (e.g. SPRINKLER PIPE MAINS) AS FOLLOWS:
 1. IF PIPE RUNS PARALLEL TO FRAMING, LOCATE PIPE MIDWAY BETWEEN, AND HANG FROM, TWO FRAMING MEMBERS (JOISTS, TRUSSES, ETC.).
 2. FOR PIPING PERPENDICULAR TO FRAMING ATTACH AT 8'-0" o.c. MAXIMUM TO STRUCTURE WHERE FRAMING IS SPACED AT 8 FT o.c. OR LESS
 3. ALL PIPE 3" DIAMETER OR GREATER SHALL BE SCHEDULE 10, NOTIFY ENGINEER IF SCHEDULE 40 PIPE IS USED. STRUCTURE MAY NEED TO BE REVISED.
 4. NOTIFY ENGINEER WHERE MULTIPLE PIPES ARE HUNG FROM FRAMING. STRUCTURE MAY NEED TO BE REVISED.
 5. 8" DIAMETER OR GREATER MAINS ARE NOT ALLOWED

DO NOT SUSPEND POINT OR LINE LOADS FROM METAL ROOF DECK. POINT LOADS INCLUDE, BUT ARE NOT LIMITED TO: PIPES, DUCTS, STEEL STUDS, EQUIPMENT, ETC. CONTRACTOR INSTALLING SUCH POINT LOADS SHALL PROVIDE SUB-FRAMING TO TRANSFER LOAD TO THE STRUCTURE SUPPORTING DECK, OR PROVIDE STAMPED CALCULATIONS THAT CONNECTIONS AND ROOF DECK HAVE SUFFICIENT CAPACITY.

SUSPENDED HORIZONTAL CEILINGS EXCLUDING BULKHEADS FRAMED WITH STEEL STUDS MAY BE SUSPENDED FROM METAL ROOF DECK. SUSPENDED CEILING SYSTEMS SHALL BE LIMITED TO 4 POUNDS PER SQUARE FOOT INCLUDING THE WEIGHT OF MECHANICAL, ELECTRICAL, AND PLUMBING COMPONENTS SUPPORTED BY THE CEILING. CEILINGS SHALL BE SUPPORTED AT A MAXIMUM OF 4 FEET ON CENTER. THE DESIGN OF THE ATTACHMENT OF THE SUSPENDED CEILING TO THE ROOF DECK SHALL BE BY THE RESPECTIVE TRADE.

DESIGN STRESSES:

CONCRETE AT 28 DAYS

F'C = 4000 PSI INTERIOR SLAB ON GRADE, SUPPORTED FLOORS, WALLS, PIERS, COLUMNS.
F'C = 4500 PSI EXTERIOR WALLS, PIERS, COLUMNS, TRENCH FOOTINGS, GRADE BEAMS. AIR ENTRAIN EXTERIOR EXPOSED CONCRETE.
F'C = 3000 PSI FOOTINGS

CONCRETE MASONRY UNIT

F'm = 2000 PSI (NET AREA COMPRESSIVE STRENGTH = 2800 PSI MIN.)
NOMINAL WEIGHT BLOCK TYPE "N"
MORTAR SHALL BE USED FOR FOUNDATION WALLS AND TYPE "S" OR "M" MORTAR SHALL BE USED ON WALLS ABOVE GRADE.

MASONRY GROUT

F'C = 3,000 PSI

REINFORCING STEEL

Fy = 60,000 PSI PER ASTM A615 GRADE 60.

STRUCTURAL STEEL

W SHAPES
S, M, OR HP
CHANNELS, ANGLES
AND PLATES
ASTM A572 GR 50 OR ASTM A992 GR50
ASTM A572 GR 50
ASTM A36, Fy = 36000 psi, OR ASTM A572 GR50

TUBES, RECTANGULAR HSS

Fy = 46,000 PSI PER ASTM A500 GRADE B.

ROUND HSS

Fy = 42,000 PSI PER ASTM A500 GRADE B.

STEEL PIPE

Fy = 35,000 PSI PER ASTM A53 GRADE B.

HANDRAILS

Fy = 42,000 PSI PER ASTM A500 GRADE B.

SOIL BEARING PRESSURE

4,000 PSF PER EXISTING STRUCTURAL DRAWINGS DATED 5/13/97. SOIL ENGINEER TO FIELD VERIFY SOIL BEARING CAPACITY BEFORE FOOTINGS ARE PLACED. PROVIDE WRITTEN VERIFICATION TO ENGINEER.

DESIGN LOADS & FACTORS:

GENERAL:

- BUILDING OCCUPANCY CATEGORY IBC 2009 CATEGORY II

FLOORS LIVE LOADS:

- TYPICAL FLOORS ABOVE GRADE 100 PSF INCLUDING PARTITIONS
- LIVE LOAD REDUCTIONS IN ACCORDANCE WITH DESIGN CODE

FLOOR SUPERIMPOSED DEAD LOAD 51 PSF

ROOF SNOW LOADS:

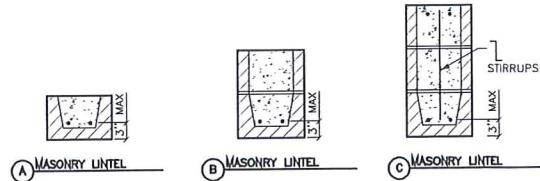
- GROUND SNOW LOAD Pg 30 PSF
- TYPICAL FLAT ROOF SNOW LOAD

LOOSE STEEL LINTEL SCHEDULE (U.N.O.)		
WALL THICKNESS	CLEAR MASONRY OPENING WIDTH	SECTION
ALL	AT FEC's & DF's	1/4" PLATE
6"	TO 5'-0" (NOTE 6)	(2) - L3 1/2 x 2 1/2 x 1/4 LLV
6"	TO 7'-0"	WT 4 x 10.5
6"	TO 9'-0"	WT 7 x 11
6"	TO 12'-0"	WB x 10
8"	TO 5'-0"	(2) - L3 1/2 x 3 1/2 x 5/16 OR WB x 10 w/ 5/16 PLATE
8"	TO 7'-0"	(2) - L4 x 3 1/2 x 5/16 LLV OR WB x 10 w/ 5/16 PLATE
8"	TO 9'-0"	WT 7 x 15 OR WB x 15 w/ 5/16" PLATE
10"	TO 7'-0"	WB x 10 w/ 5/16 PLATE
10"	TO 10'-0"	WB x 15 w/ 5/16 PLATE
12"	TO 5'-0"	(3) - L3 1/2 x 3 1/2 x 5/16 OR WB x 10 w/ 5/16 PLATE
12"	TO 7'-0"	WB x 10 w/ 5/16 PLATE
12"	TO 10'-0"	WB x 15 w/ 5/16 PLATE

- MAY BE USED AS ALTERNATE TO MASONRY GENERAL NOTES FOR PRECAST OR BOND BEAM LINTELS
- USE OVER RECESSED DRINKING FOUNTAINS (DF) FIRE EXTINGUISHER CABINETS (FEC) CONNECTORS, LOUVERS, DAMPERS, DUCTS, KNOCKOUT PANELS, WINDOWS, DOORS AND OPENINGS THROUGH MASONRY WALLS WHERE OTHER LINTELS ARE NOT DETAILED OR SCHEDULED
- PROVIDE MINIMUM 8" BEARING EACH END OF LINTEL
- CENTER LINTELS IN WALL UNLESS NOTED.
- BOTTOM PLATES UNDER WIDE FLANGE SHAPES SHALL BE EXTENDED FULL LENGTH OF LINTEL
- WELD LINTELS INTO SINGLE UNITS
- NO LINTEL REQUIRED FOR 4" AND 6" NON-BEARING MASONRY WALLS WHERE GROUTED HOLLOW METAL FRAMES HAVE A HEADSPAN OF 4'-0" OR LESS
- FOR BEAMS WITH PLATES, WIDTH OF PLATE = NOMINAL MASONRY WALL THICKNESS (INCLUDING BRICK) - 1".

MASONRY/ CONCRETE LINTEL SCHEDULE			
MARK	SIZE	TYPE	REMARKS
L1	8" HIGH MASONRY LINTEL w/ (2) #5 BOTTOM	A	
L2	16" HIGH MASONRY LINTEL w/ (2) #6 TOP & BOTTOM	C	
L3	24" HIGH MASONRY LINTEL w/ (2) #6 TOP & BOTTOM, AND #3 STIRRUPS @ 12" o/c	C	f'm = 2000 PSI
L4	WB x 10	-	
L5	WB x 18	-	

- SEE MASONRY GENERAL NOTES AND 4/S5.4 FOR BEARING REQUIREMENTS AND DETAIL.
- COORDINATE BOTTOM OF LINTEL ELEVATION WITH ARCHITECTURAL PLANS.
- FOR STEEL LINTELS, PROVIDE 5/16" BOTTOM PLATE UNLESS NOTED OTHERWISE. WIDTH OF PLATE = NOMINAL MASONRY THICKNESS (INCLUDING VENEER) - 1".
- FOR STEEL LINTELS GREATER THAN OR EQUAL TO 10'-0" LONG, PROVIDE 3/8" DIAMETER X 4" LONG HEADED WELDED STUDS AT 32" O/C ON TOP FLANGE. LINTELS LESS THAN 10'-0" LONG MAY BE PLACED LOOSE WITHOUT ANCHOR BOLTS OR BEARING PLATES, UNLESS NOTED OTHERWISE.
- ALL DIMENSIONS ARE NOMINAL MASONRY DIMENSIONS U.N.O.



MASONRY PIER SCHEDULE					
MARK	TYPE	SIZE (L) IN INCHES	VERTICAL REINFORCEMENT (NOTE 2)	TIES	REMARKS
MP1	"A"	16	(2) - #5 BARS		
MP2	"A"	24	(3) - #5 BARS		
MP3	"C"	16	(3) - #5 BARS		
MP4	"C"	24	(5) - #5 BARS		
MP5	"A"	32	(4) - #5 BARS		
MP6	"D"	16	(4) - #5 BARS		

- NOTES:
- W = WALL WIDTH -- SEE PLAN
 - PROVIDE DOWELS OF SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT. MINIMUM LAP PER SCHEDULE WITH STANDARD ACI HOOK INTO FOOTING, FOUNDATION WALLS, ETC.
 - RUN HORIZONTAL REINFORCEMENT THROUGH PIER.
 - FILL CELLS SOLID WITH 3000 PSI CONCRETE. USE ONLY 2 CELL BLOCK. SEE MASONRY GENERAL NOTES FOR GROUTING METHODS ALLOWED.
 - PROVIDE (1) - #5 AT EACH SIDE OF OPENINGS, DOORS, WINDOWS, DUCT OPENINGS ETC. U.N.O. SEE PLAN FOR MASONRY PIER REQUIREMENTS
 - USE ONLY STANDARD, HOLLOW PILASTER OR COLUMN BLOCK. PROVIDE 1 1/2" CLEAR CONCRETE COVER TO TIES. FILL WITH 3000 PSI CONCRETE
 - PROVIDE 1/2" CLEAR GROUT COVER BETWEEN BLOCK FACE AND BAR

MASONRY BAR SPLICE SCHEDULE			
TYPE	BAR SIZE	NOMINAL THICKNESS WALL	
		6"	8",10" & 12"
A	#3	1'-4"	1'-4"
A	#4	1'-10"	1'-10"
A	#5	2'-10"	2'-4"
A	#6	5'-4"	4'-0"
B	#3	-	1'-4"
B	#4	-	2'-2"
B	#5	-	3'-6"

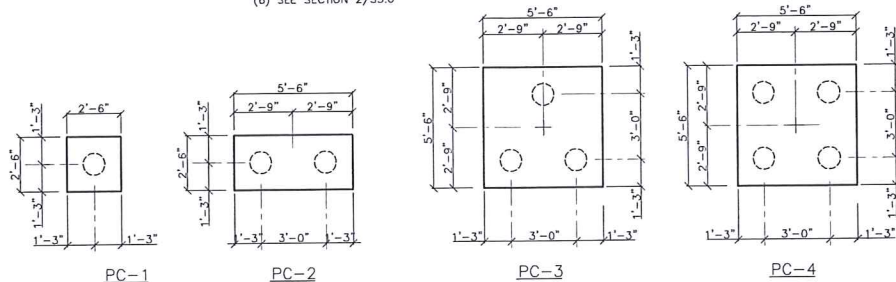
- NOTES:
- REQUIRED f'm = 2000 PSI
 - W = WALL WIDTH= SEE PLAN
 - PROVIDE 1/2" CLEAR GROUT COVER BETWEEN BLOCK FACE AND BAR
 - LAP LENGTHS APPLY TO BOTH VERTICAL AND HORIZONTAL BARS.
 - MECHANICAL CONNECTIONS THAT DEVELOP 125% OF BAR YIELD STRENGTH MAY BE SUBSTITUTED FOR LAP SPLICES.
 - WELDED SPLICES ARE NOT PERMITTED.

CONCRETE REBAR LAPS SCHEDULE										
DESCRIPTION	LAP SPLICE LENGTH IN INCHES: UNCOATED BARS / EPOXY COATED BARS									
	#3	#4	#5	#6	#7	#8	#9	#10	#11	REMARKS
FOOTINGS & SLABS ON GRADE LESS THAN OR EQUAL TO 13" THICK BOTTOM BARS TOP BARS GREATER THAN 13" THICK BOTTOM BARS TOP BARS	13/16 13/16	18/21 18/21	22/26 22/26	26/31 26/39	38/45 38/57	43/52 43/65	49/73 53/80	55/82 66/99	61/91 79/118	CONCRETE f'c = 3000 PSI OR GREATER BAR SPACING 8" o/c OR GREATER
BEAMS WITH CLOSED STIRRUPS TOP BARS AND SIDE BARS C BARS AT MIN 3" C TO C BARS AT MIN 4" C TO C BARS AT MIN 6" C TO C BOTTOM BARS C BARS AT MIN 3" C TO C BARS AT MIN 4" C TO C BARS AT MIN 6" C TO	15/18 15/18 15/18	20/26 20/24 20/24	26/33 24/32 24/29	37/48 29/38 29/38	62/81 46/61 43/55	81/105 61/79 51/67	- 77/100 63/82	- 97/127 78/101	- 93/122	CONCRETE f'c = 4000 PSI OR GREATER MIN 1 1/2" COVER TO STIRRUPS STIRRUP SPACING MUST BE NO LESS THAN CODE MINIMUM SPACING BASED ON ACTUAL DIMENSIONS BETWEEN BARS AT LOCATIONS OTHER THAN LAP SPLICES
BEAMS WITHOUT CLOSED STIRRUPS BOTTOM BARS TOP BARS AND SIDE BARS										USE SPLICE LENGTHS FOR WALLS, VERTICAL REINFORCING. SEE VALUES TABULATED ABOVE USE SPLICE LENGTHS FOR WALLS, HORIZONTAL REINFORCING. SEE VALUES TABULATED ABOVE

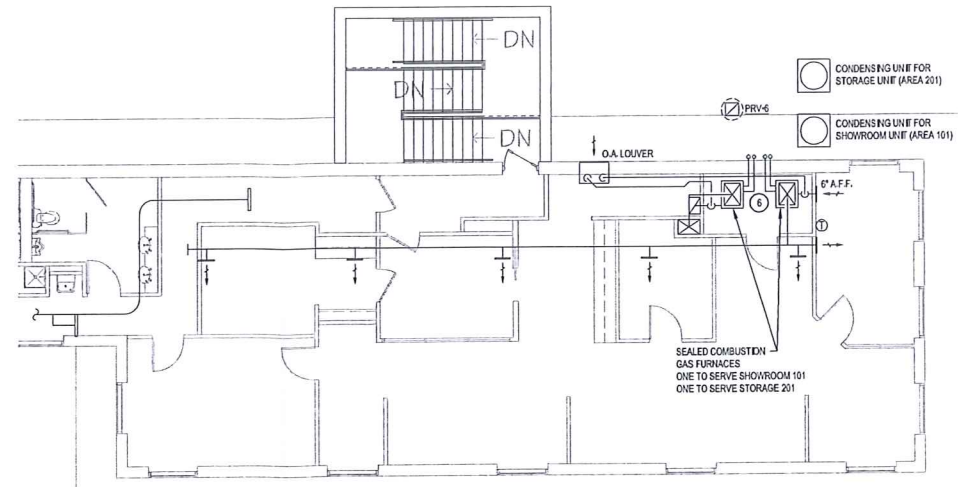
- USE FOR GRADE 60 REINFORCING STEEL IN STANDARD WEIGHT CONCRETE CONSTRUCTION ONLY
- USE THIS SCHEDULE WHERE LAP LENGTHS ARE NOT OTHERWISE SPECIFIED OR DETAILED
- VALUES ARE BASED ON ACI 318-08 & 318-14 CLASS "B" LAP SPLICE EQUATIONS

PILE CAP SCHEDULE								
MARK	PILE TYPE	NO OF PILES	PILE CAP SIZE			REINFORCING		REMARKS
			LONG	SHORT	DEPTH	LONG	SHORT	
PC-1	HELICAL	1	2'-6"	2'-6"	40"	(4) #4	(4) #4	10 TON HELICAL PIERS
PC-2	HELICAL	2	5'-6"	2'-6"	20"	(4) #5	(6) #5	10 TON HELICAL PIERS
PC-3	HELICAL	3	5'-6"	5'-6"	22"	(8) #6	(8) #6	10 TON HELICAL PIERS
PC-4	HELICAL	4	5'-6"	5'-6"	28"	(11) #6	(11) #6	10 TON HELICAL PIERS
PC-10	HELICAL	4	11'-0"	9'-6"	30"	(10) #7	(12) #7	10 TON HELICAL PIERS

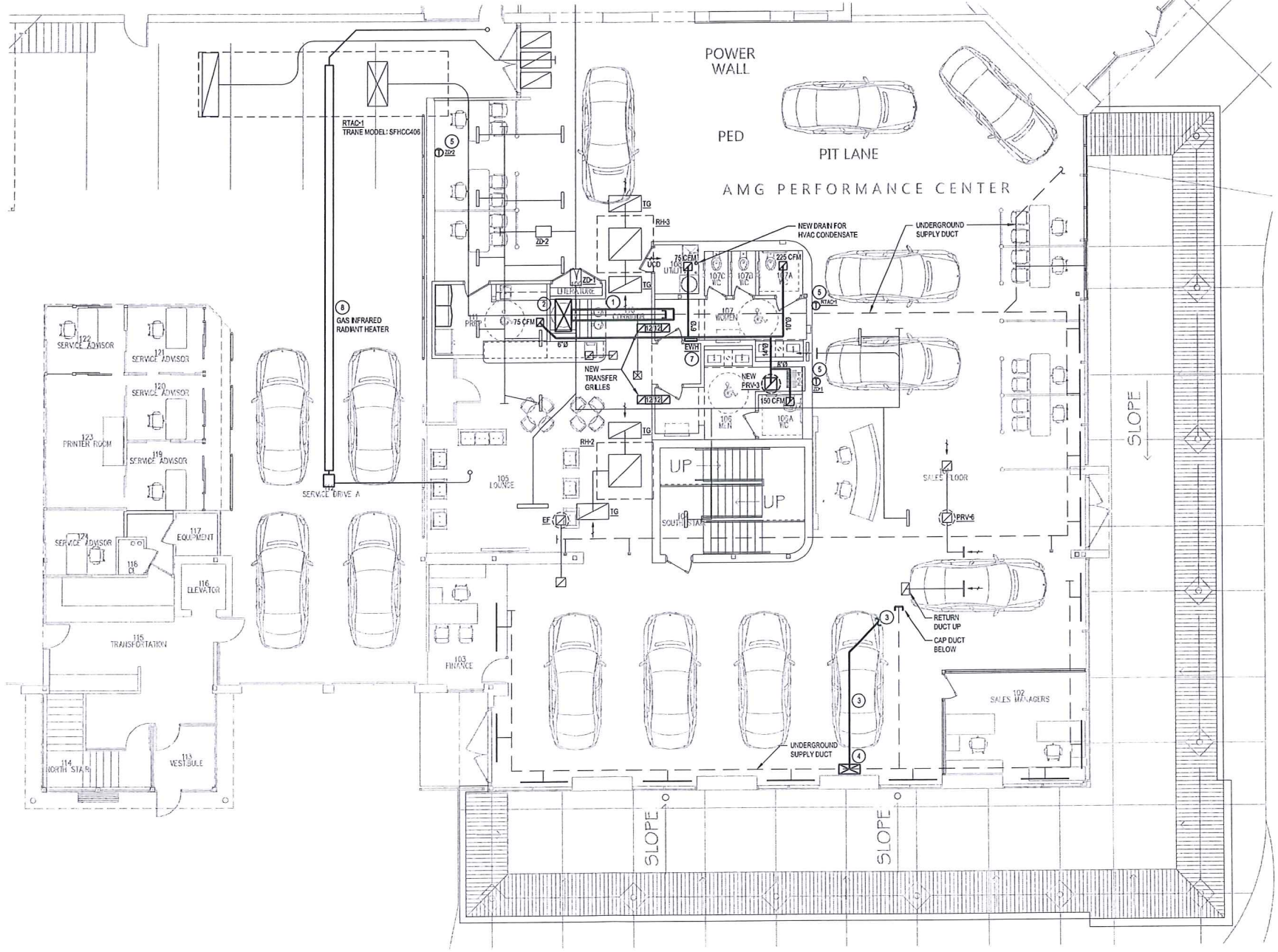
- (1) CONCRETE f'c = 4000 PSI.
(2) PILE DESIGN BASED ON 10 TON PILE CAPACITY OR AS SHOWN ON PLANS
(3) ALL PILE CAP BARS TO BE HOOKED.
(4) PILE EDGE DISTANCE = 15" MINIMUM.
(5) PILE SPACING = 3'-0" MINIMUM.
(6) SEE SECTION 2/S5.0



REVISIONS



2 MEZZANINE MECHANICAL NEW WORK PLAN
1/8" = 1'-0"



1 FIRST FLOOR MECHANICAL NEW WORK PLAN
1/8" = 1'-0"

GENERAL NOTE:
ALL EXISTING DUCTWORK THAT WAS CONCEALED BEFORE AND IS NOW EXPOSED SHALL BE PAINTED BLACK BY GENERAL CONTRACTOR.

KEYED MECHANICAL NEW WORK NOTES:

- 1 GENERAL CONTRACTOR SHALL CUT, EXCAVATE, BACKFILL, AND PATCH FLOOR TO ALLOW MECHANICAL CONTRACTOR TO EXTEND EXISTING UNDERGROUND DUCT USING SAME MATERIALS TO NEW DUCT DROP. GENERAL CONTRACTOR SHALL PROVIDE FILL AND WORK AROUND EXISTING BELOW GRADE VAPOR SYSTEM.
- 2 PROVIDE SAME SIZE DUCT THAT WAS REMOVED DOWN NEW CHASE AND CONNECT INTO NEW UNDERGROUND DUCT.
- 3 CONNECT NEW DUCTWORK OF SAME SIZE INTO EXISTING AND RUN AS TIGHT TO DECK AS POSSIBLE. GENERAL CONTRACTOR SHALL PAINT BLACK.
- 4 GENERAL CONTRACTOR TO CUT FLOOR & PROVIDE NEW CHASE WALLS AROUND NEW DUCT. CAUTION - EXISTING ENVIRONMENTAL VENTING SYSTEM IN THIS AREA.
- 5 RELOCATE THERMOSTATS.
- 6 RELOCATE EXISTING CONDENSATE PIPING TO NEW HUB DRAIN IN JANITOR'S CLOSET ON FIRST FLOOR USING SAME MATERIAL AND FITTINGS.
- 7 RELOCATED EXISTING ELECTRIC WALL HEATER.
- 8 RELOCATED EXISTING GAS INFRARED RADIANT HEATER.

REVISIONS

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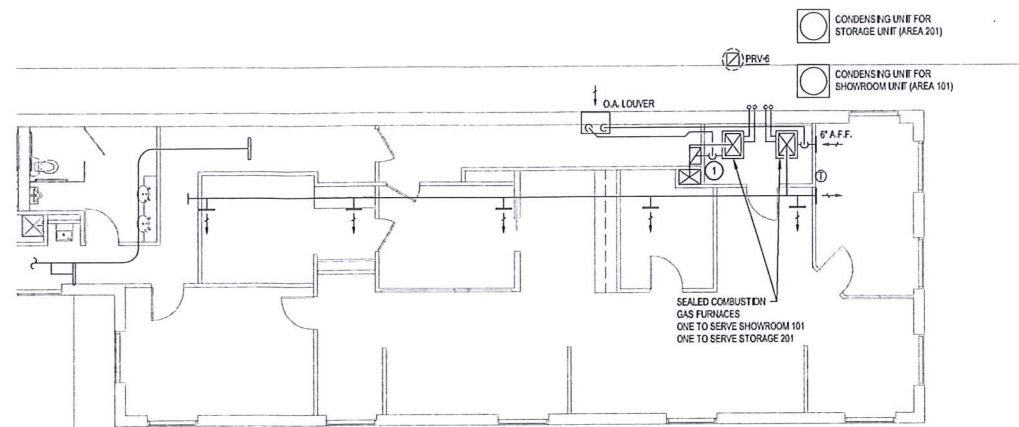
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HCC Project Number: 17-1123.00

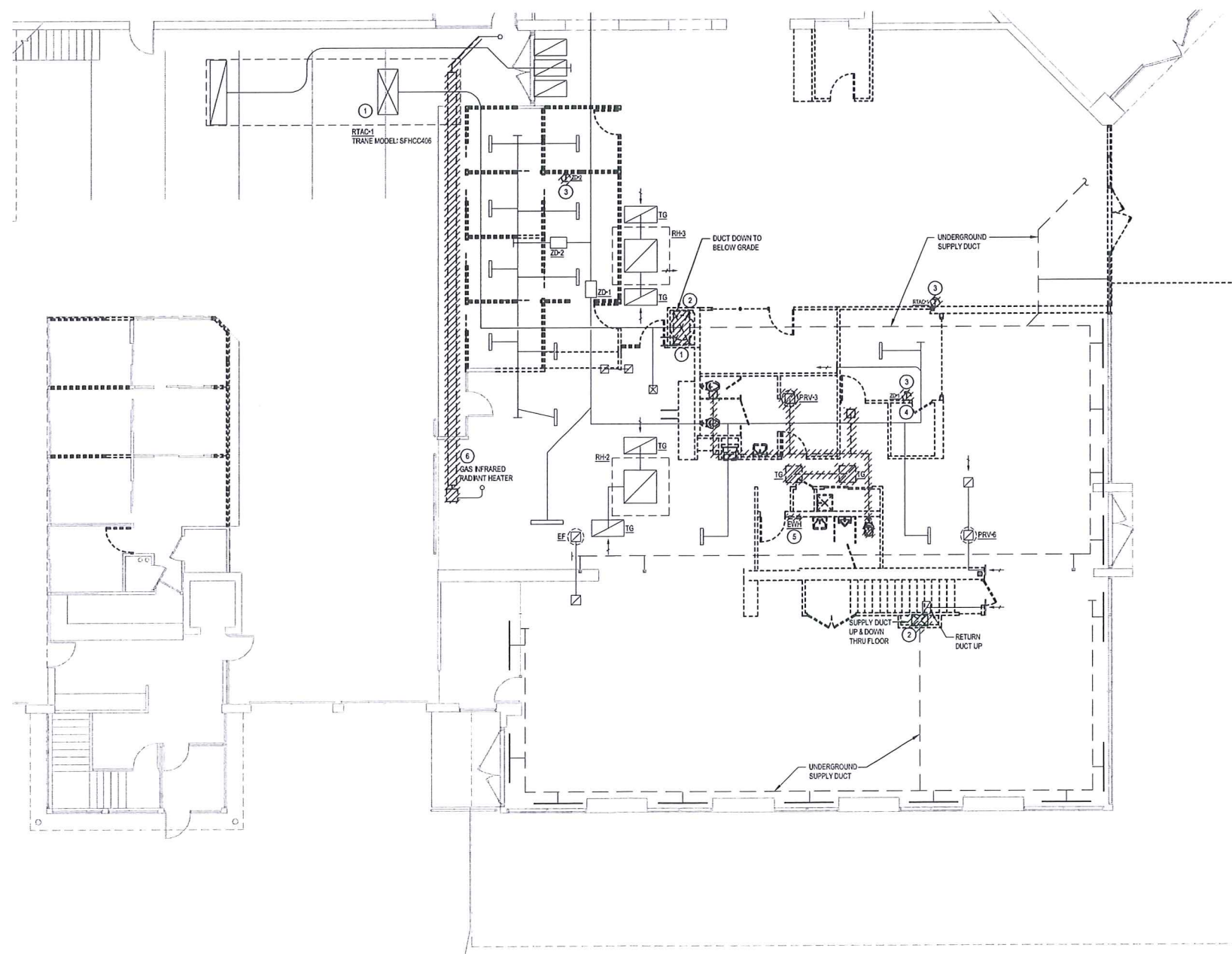
BY: REF: DU/LMC
PROJ: 16085
DATE: 17 NOV 2017

M100
MECHANICAL
NEW WORK PLAN

1/8" = 1'-0"



2 MEZZANINE MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"



1 FIRST FLOOR MECHANICAL DEMOLITION PLAN
1/8" = 1'-0"

- KEYED MECHANICAL DEMOLITION NOTES:
- 1 PRIOR TO THE START OF CONSTRUCTION, PROVIDE TESTING, ADJUSTING, AND BALANCING. GENERAL CONTRACTOR SHALL TEST UNIT FOR STATIC PROFILE, AIR FLOW, AND MOTOR SIZE OF EQUIPMENT. PROVIDE REPORT TO ARCHITECT AND ENGINEER.
 - 2 DEMOLISH THE EXISTING DUCT DOWN TO BELOW THE FLOOR AND CAP THE DUCT AT FLOOR. GENERAL CONTRACTOR SHALL PATCH FLOOR.
 - 3 RELOCATE THERMOSTATS.
 - 4 RELOCATE EXISTING HVAC CONTROLS TO NEW ROOM. SEE DETAIL 18400 ON ELECTRICAL DRAWINGS FOR EQUIPMENT.
 - 5 REMOVE AND RELOCATE EXISTING ELECTRIC WALL HEATER AND MOVE TO NEW WOMEN'S ROOM 107.
 - 6 REMOVE AND RELOCATE EXISTING GAS INFRARED RADIANT HEATER TO NEW SERVICE DRIVE A 112.

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PROJ: 16095
DATE: 17 NOV 2017
MD100
MECHANICAL
DEMOLITION PLAN

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POWER ROOF VENTILATOR SCHEDULE																																											
PLAN MARK PRV--	LOCATION	SERVES	MANUFACTURER	MODEL NO.	TYPE	ACFM	EXTERNAL STATIC PRESSURE (IN. W.G.)	FAN RPM	MOTOR BHP	DRIVE	STARTER DESCRIPTION											ELECTRICAL DATA														EMERGENCY POWER (YES/NO)	COMMENTS						
											FURNISHED BY	INSTALLED BY	LOCATION	TYPE	COVER MODIFICATION								CONTROLLED BY	VOLTS/ PHASE	SCCR (KAIC)	MOTOR HP	AMPS		FED FROM		BKR		BR WIRING					DISCONNECT SWITCH					
															NEMA RATING	COMB.	BLANK	S/S P.B.	H.O.A.	P.L.	CONTL TMR (24V/120V)	MCA					MOCP	PNL	NO	SIZE	POLE	NO	SIZE	GND	COND			FURN BY	INST. BY	FUSES			
3	ROOF	RESTROOMS	GREENHECK	101-B	PRV	525	0.375	1140	—	DIRECT	FACTORY	FACTORY	ON UNIT	MAG	1	—	—	—	—	—	120	TCC	120/1	5	1/6	—	—	SEE DWG	15	1	2	12	12	1/2	FACTORY	FACTORY	NO	NO	—				

EQUIPMENT ABBREVIATIONS

ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BB	BASEBOARD
BDD	BACK DRAFT DAMPER
C	CONVECTOR
CHILL	CHILLER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
DH	DEHUMIDIFIER
DSF	DESTRATIFICATION FAN
E	EXHAUST GRILLE - EXHAUST REGISTER
EBB	ELECTRIC BASEBOARD
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ERU	ENERGY RECOVERY UNIT
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FD	FIRE DAMPER
FTR	FINNED TUBE RADIATION
FSD	COMBINATION FIRE & SMOKE DAMPER
FUR	FURNACE
HUM	HUMIDIFIER
L	LOUVER
MOD	MOTOR/COED OPERATING DAMPER
MUA	MAKE-UP AIR UNIT
P	PUMP
PRV	POWER ROOF VENTILATOR
R	RETURN GRILLE - RETURN REGISTER
RCP	RADIANT CEILING PANEL
RF	RETURN FAN
RTU	ROOFTOP UNIT
RTAC	ROOFTOP AIR COOLING UNIT
S	SUPPLY GRILLE - SUPPLY REGISTER
SD	SMOKE DAMPER
SF	SUPPLY FAN
TG	TRANSFER GRILLE
UH	UNIT HEATER
VD	VOLUME DAMPER
VAV	VARIABLE AIR VOLUME BOX - FAN POWERED NO HEAT
VFD	VARIABLE FREQUENCY DRIVE
VFE	VARIABLE AIR VOLUME BOX - FAN POWERED ELECTRIC HEAT
VFH	VARIABLE AIR VOLUME BOX - FAN POWERED HOT WATER HEAT
VS	VARIABLE AIR VOLUME BOX - SHUT OFF NO HEAT
VSE	VARIABLE AIR VOLUME BOX - SHUT OFF ELECTRIC HEAT
VSH	VARIABLE AIR VOLUME BOX - SHUT OFF HOT WATER HEAT

GENERAL ABBREVIATIONS

A	ARCHITECT
AE	ARCHITECT-ENGINEER
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CL	CENTERLINE
CLG	CEILING
CM	CONSTRUCTION MANAGER
COND	CONDENSATE
DB	DRY BULB
DG	DOOR GRILLE
DR	DRAIN
DX	DIRECT EXPANSION
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FT	FEET
GC	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSANDS OF BTU PER HOUR
MC	MECHANICAL CONTRACTOR
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TCC	TEMPERATURE CONTROL CONTRACTOR

GRILLES & DIFFUSERS

	CEILING DIFFUSER WITH FLEX DUCTWORK
	CEILING DIFFUSER WITH HARD DUCTWORK
	CEILING DIFFUSER WITH HARD DUCTWORK
	CEILING RETURN OR TRANSFER GRILLE WITH HARD DUCTWORK
	CEILING RETURN OR TRANSFER GRILLE WITH FLEX DUCTWORK
	CEILING RETURN OR TRANSFER GRILLE WITH HARD DUCTWORK
	CEILING EXHAUST GRILLE WITH HARD DUCTWORK
	CEILING EXHAUST GRILLE WITH FLEX DUCTWORK
	CEILING EXHAUST GRILLE WITH HARD DUCTWORK
	SLOT DIFFUSER WITH FLEXIBLE CONNECTION
	SIDEWALL GRILLE

DAMPERS

	MANUAL VOLUME DAMPER
	AUTOMATIC DAMPER
	BACKDRAFT DAMPER
	SMOKE DAMPER
	FIRE DAMPER (HORIZONTAL)
	FIRE DAMPER (VERTICAL)
	COMBINATION FIRE/SMOKE DAMPER
	COMBINATION FIRE/SMOKE DAMPER
	OPPOSED BLADE DAMPER
	PARALLEL BLADE DAMPER

FIELD MOUNTED CONTROLS

① THERMOSTAT

SPECIAL DESIGNATION

	EQUIPMENT NOTATION
	KEYED NOTE
	PLAN CONTINUATION REFERENCE
	DETAIL REFERENCE
	PLAN / DETAIL
	REVISION REFERENCE
	CONNECT TO EXISTING
	PITCH
	FLOW
	LINE INDICATES DEMOLITION

DUCTWORK

	SUPPLY DUCT (UP OR SECTION)
	OUTDOOR AIR DUCT (UP OR SECTION)
	SUPPLY OR OUTSIDE AIR DUCT (DOWN OR AWAY)
	EXHAUST DUCT (UP OR SECTION)
	RETURN DUCT (UP OR SECTION)
	EXHAUST OR RETURN DUCT (DOWN OR AWAY)
	ROUND DUCTWORK UP
	ROUND DUCTWORK DOWN
	ACOUSTICALLY LINED DUCT
	DROP (D) OR RISE (R)

EQUIPMENT

	ROOF VENTILATOR, INTAKE (ROOF PLAN)
	ROOF VENTILATOR, EXHAUST (ROOF PLAN)
	ROOF VENTILATOR, INTAKE (PLAN VIEW)
	ROOF VENTILATOR, EXHAUST (PLAN VIEW)
	ROOF VENTILATOR, LOUVERED
	VARIABLE AIR VOLUME BOX W/ REQUIRED 36" CLEARANCE
	VARIABLE AIR VOLUME BOX WITH REHEAT COIL W/ REQUIRED 36" CLEARANCE
	LOCATION OF ACCESS CLEARANCE
	UNIT HEATER
	REHEAT COIL
	HUMIDIFIER
	PUMP
	SUCTION DIFFUSER
	REDUCER
	REDUCER
	SQUARE TO ROUND TRANSITION

MECHANICAL SHEET INDEX

ME1.0	MECHANICAL LEGEND & SCHEDULES
MD100	MECHANICAL DEMOLITION PLAN
M100	MECHANICAL NEW WORK PLAN

NOTE:
ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE
CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL
SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

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H&C Project Number: 17-1123.00

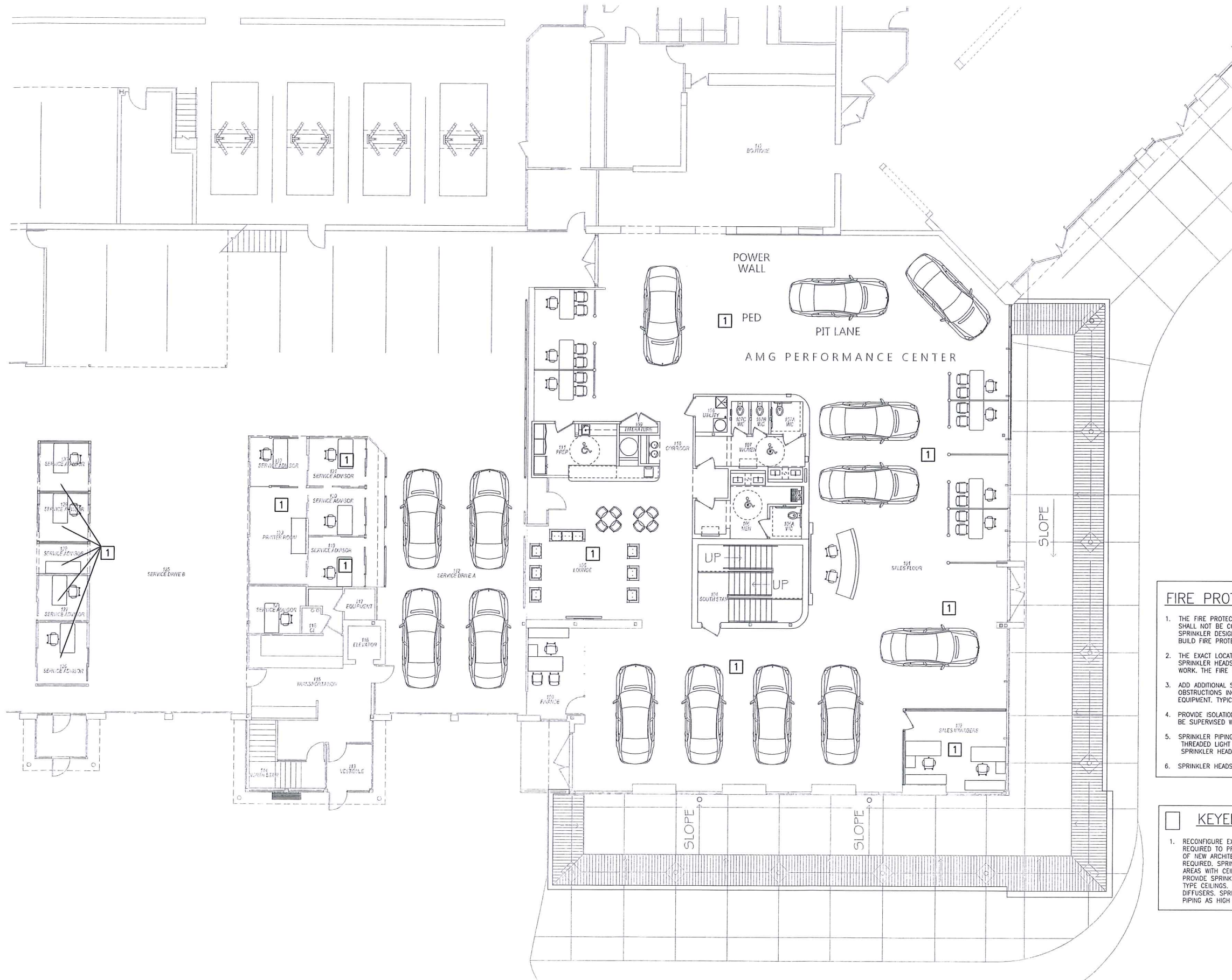
BY: J. J. J.
REF: DU/UM/C
PROJ: 16095
DATE: 17 NOV 2017
ME1.0
MECHANICAL
LEGEND & SCHEDULES

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



FIRE PROTECTION SHEET INDEX:
FP1.0 SCHEMATIC FIRE PROTECTION PLAN AND NOTES

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MEC Project Number: 17-1123.00

FIRE PROTECTION GENERAL NOTES:

1. THE FIRE PROTECTION DRAWINGS ARE CONCEPTUAL, FOR GENERAL INFORMATION ONLY AND SHALL NOT BE CONSTRUED AS FINAL DESIGN OR INSTALLATION DOCUMENTS. THE SPRINKLER DESIGN AND INSTALLATION SHALL BE THE RESPONSIBILITY OF THE DESIGN BUILD FIRE PROTECTION CONTRACTOR.
2. THE EXACT LOCATION, ELEVATION, AND CONFIGURATION OF SPRINKLER PIPING AND SPRINKLER HEADS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO COMMENCING WORK. THE FIRE PROTECTION CONTRACTOR DOES NOT HAVE PRIORITY.
3. ADD ADDITIONAL SPRINKLER HEADS AS REQUIRED BY NFPA 13 TO ACCOMMODATE OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO COLUMNS, DUCTWORK, SOFFITS AND EQUIPMENT, TYPICAL.
4. PROVIDE ISOLATION VALVES AS REQUIRED PER NFPA 13, 14. ALL OS&Y VALVES SHALL BE SUPERVISED WITH TAMPER SWITCHES.
5. SPRINKLER PIPING SHALL BE BLACK STEEL, TYPE F, ASTM A53. THREADED LIGHT WALL PIPE AND PLASTIC PIPE ARE NOT ACCEPTABLE. SPRINKLER HEADS SHALL MANUFACTURED BY TYCO, RELIABLE, VICTAULIC OR VIKING.
6. SPRINKLER HEADS SHALL BE LOCATED WITHIN CENTER OF CEILING TILE.

KEYED FIRE PROTECTION NOTES:

1. RECONFIGURE EXISTING MAINS, BRANCH LINES AND SPRINKLER HEADS AS REQUIRED TO PROVIDE COMPLETE UNOBSTRUCTED COVERAGE TO ALL AREAS OF NEW ARCHITECTURAL ROOM LAYOUT. PROVIDE ADDITIONAL NEW HEADS AS REQUIRED. SPRINKLER HEADS SHALL BE SEMI RECESSED PENDANTS IN AREAS WITH CEILINGS AND UPRIGHT PENDANTS IN AREAS WITH NO CEILINGS. PROVIDE SPRINKLER HEADS ABOVE AND BELOW ANY AREAS WITH CLOUD TYPE CEILINGS. COORDINATE SPRINKLER HEAD LOCATIONS WITH LIGHTS AND DIFFUSERS. SPRINKLER HEADS DO NOT HAVE PRIORITY. INSTALL BRANCH PIPING AS HIGH AS POSSIBLE IN AREAS WITH NO CEILINGS.

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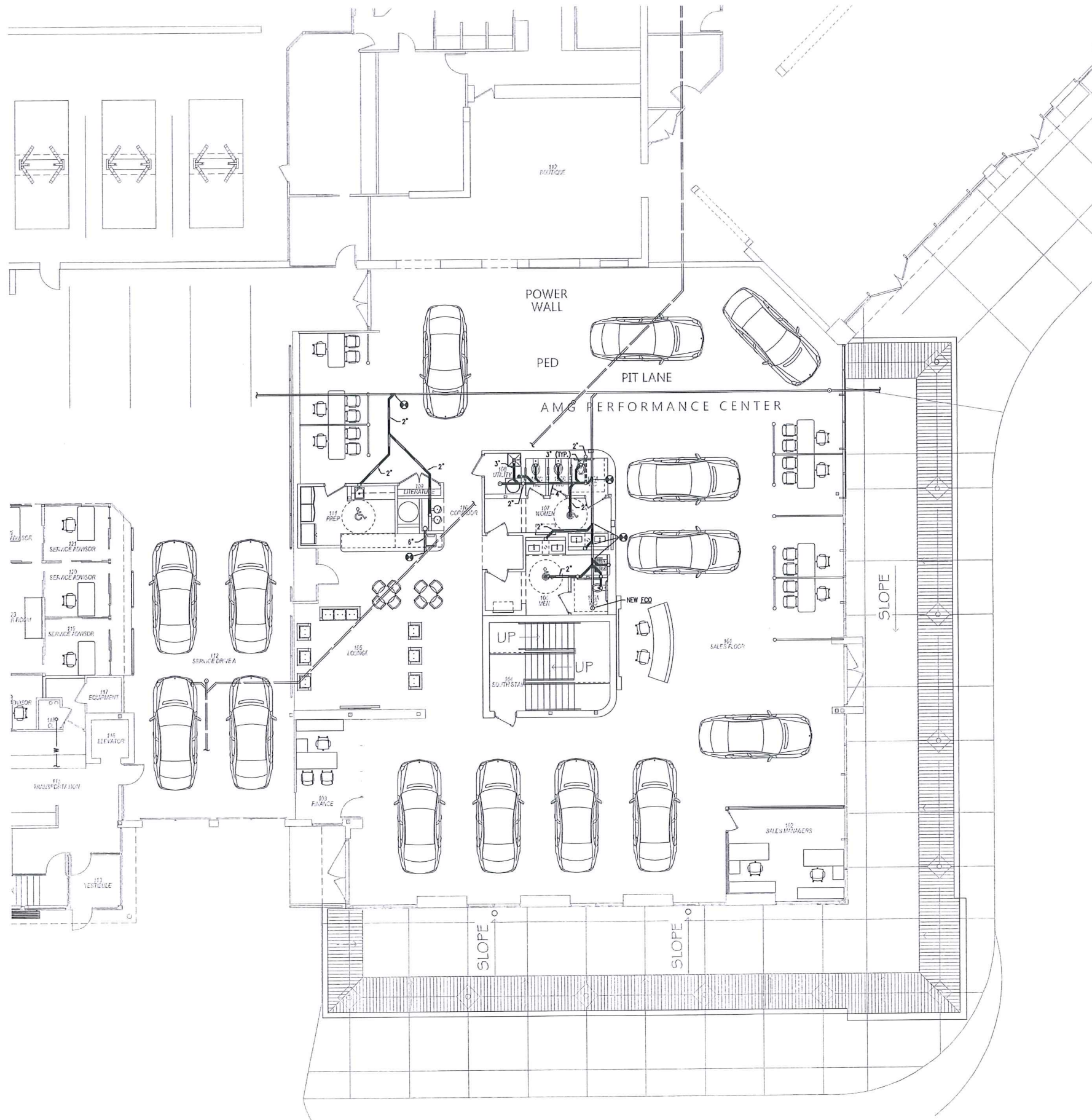


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BY: FJW
REF: DUUMC
PROJ: 16095
DATE: 17 NOV 2017

FP101

SCHEMATIC FIRE
PROTECTION PLAN



GENERAL PLUMBING NOTES:

1. DRAWINGS OF ALL OTHER TRADES SHALL BE REVIEWED. THIS CONTRACTOR SHALL COORDINATE THE INSTALLATION AND SCHEDULING OF HIS WORK WITH OTHER TRADES TO PREVENT INTERFERENCE WITH THEIR RESPECTIVE INSTALLATIONS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING FIXTURES, EQUIPMENT, STRUCTURAL DIMENSIONS, AND LAYOUT.
3. DEVIATIONS FROM THE ROUTING OF NEW PIPING SHOWN MAY BE NECESSARY IN ORDER TO CLEAR WORK OF OTHER TRADES. HOWEVER, ALL SUCH DEVIATIONS SHALL BE PREVIOUSLY APPROVED BY THE ARCHITECT/ENGINEER.
4. ALL SANITARY, STORM, AND CLEAR WATER WASTE PIPING SHALL BE PITCHED AS FOLLOWS: PIPING 2" AND SMALLER AT 1/4"/FT, PIPING 3" AND LARGER AT 1/8"/FT UNLESS OTHERWISE NOTED.
5. PENETRATIONS THROUGH FLOORS AND WALLS SHALL BE SEALED WITH A U.L. LISTED SYSTEM OF MATERIAL THAT MEETS OR EXCEEDS THE FIRE RATING OF THE WALL OR FLOOR PENETRATED. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, NEW OPENINGS OR EXISTING OPENINGS MADE OBSOLETE BY THE REMOVAL OF EXISTING PLUMBING PIPING.
6. INSTALL ALL INTERIOR HORIZONTAL STORM, WATER, WASTE, AND VENT PIPING AS HIGH AS POSSIBLE. ALL HORIZONTAL PIPING LOCATED ABOVE CEILINGS SHALL BE INSTALLED WITHIN THE JOIST SPACE UNLESS OTHERWISE INDICATED.
7. INSTALL CLEANOUT AT THE BASE OF ALL ROOF CONDUCTORS AND WASTE STACKS. ALL CLEANOUTS SHALL BE INSTALLED WHERE EASILY ACCESSIBLE. COORDINATE ALL CLEANOUT LOCATIONS WITH ALL EQUIPMENT, CABINETS, ETC. PRIOR TO INSTALLATION.
8. ALL WORK SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE WISCONSIN PLUMBING CODE AND ALL OTHER APPLICABLE CODES AS ADOPTED BY THE LOCAL INSPECTING AUTHORITIES. ALL PLUMBING FIXTURES AND EQUIPMENT SHALL COMPLY WITH THE WISCONSIN PLUMBING CODE SPS 384.
9. SAW CUTTING, REMOVAL, AND REPLACEMENT OF EXISTING FLOOR SLAB FOR THE INSTALLATION OF NEW PLUMBING WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR. NEW FLOOR CONSTRUCTION SHALL MATCH EXISTING.
10. ALL SLEEVES THROUGH CONCRETE FRAMING REQUIRED FOR THE INSTALLATION OF PLUMBING WORK SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
11. TRAPS AT ALL SINKS AND LAVATORIES SHALL BE INSTALLED STRAIGHT BACK TO THE WALL WITH ALL PIPING OFFSETS LOCATED WITHIN THE WALL.
12. LOCATE ALL VENT TERMINALS A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES.
13. ALL VALVES, SHOCK ARRESTORS, ETC. SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS SHALL BE CENTRALLY LOCATED BEHIND ACCESS PANELS.
14. REFER TO PIPING ISOMETRICS FOR SIZES NOT SHOWN ON PLANS.

PLUMBING LEGEND

SYMBOL	ABBR.	DESCRIPTION
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	W	SANITARY PIPING BELOW GROUND
	V	SANITARY VENT PIPING ABOVE GROUND
	ST	SANITARY VENT PIPING BELOW GROUND
	ST	STORM PIPING ABOVE GROUND
	ST	STORM PIPING BELOW GROUND
	UP	PIPING UP
	DN	PIPING DOWN
	C.O.	CLEANOUT
	FCO	FLOOR CLEANOUT
		BALL VALVE
	FD	FLOOR DRAIN
	HD	HUB DRAIN OR SITE DRAIN
		POINT OF CONNECTION OF NEW PIPING TO EXISTING
		SHOCK ARRESTOR
		FIXTURE UNIT TAGS
	EW	ELECTRIC WATER HEATER
	EW	ELECTRIC WATER COOLER
	WC	WATER CLOSET
	LAV / L	LAVATORY
	MB	MOP BASIN
	SNK / S	SINK
	UR	URINAL

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BY:
REF: DU MWC
PROJ: 16095
DATE: 17 NOV 2017

P100
FOUNDATION
PLUMBING PLAN

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HES Project Number: 17-1123.00

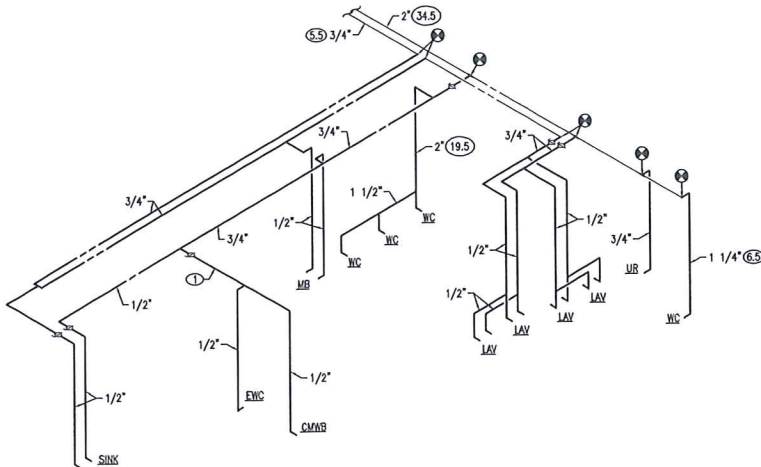


CALCULATE WATER SERVICE PRESSURE LOSS

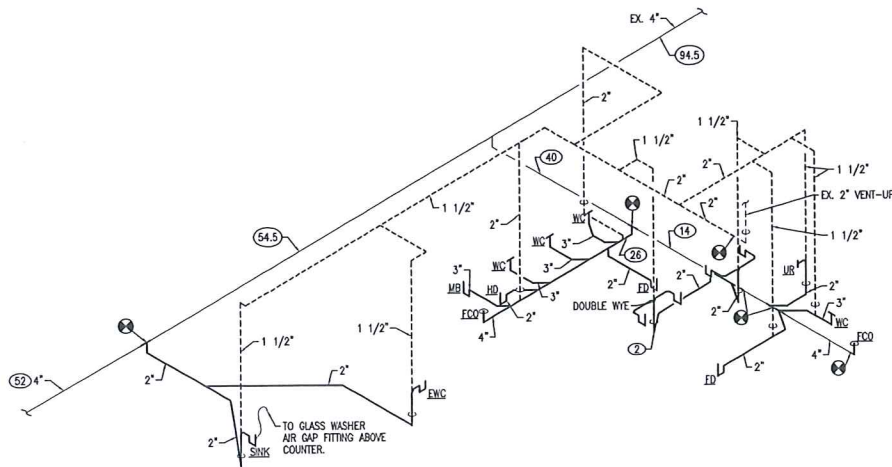
6. Low pressure at main in street or external pressure tank. (value of #5 above)		62
7. Determine pressure loss due to friction in _____ inch diameter water service. (Water service piping material is _____)	Subtract value of "7"	
	subtotal	62
8. Determine pressure loss due to elevation. (multiply the value of #2 above by 4.34)	Subtract value of "8"	0.0
9. Available pressure after the building control valve. (enter in "B" below)	subtotal	62.00

CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")

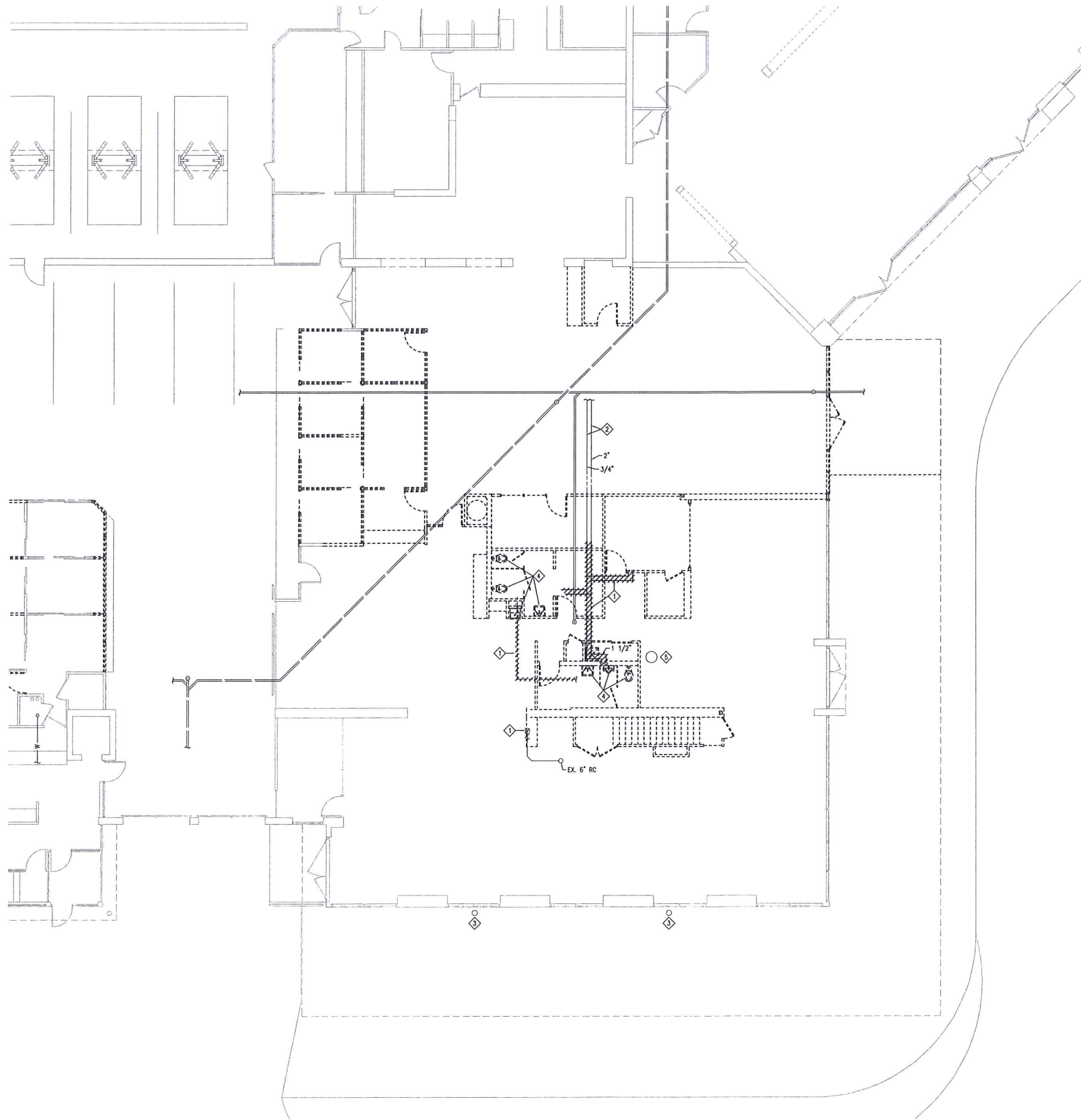
B. Available pressure after the building control valve. (from "9" above)	Value of "B"	62.00
C. Pressure loss of water meter (when meter is required)	Subtract value of "C"	5
	subtotal	57.00
D. Pressure at controlling fixture. (Controlling fixture is <u>Water Closet</u>)	Subtract value of "D"	30
	subtotal	27.00
E. Difference in elevation between the building control valve and the controlling fixture in feet _____ X 0.434 psi/ft.	Subtract value of "E"	0.00
	subtotal	27.00
F. Pressure loss due to water treatment devices, instantaneous water heaters and backflow preventers which serve the controlling fixture. (Pressure loss due to _____)	Subtract value of "F"	0
	subtotal	27.00
G. Developed length from building control valve to controlling fixture in feet X 1.5 _____ X 1.5	Divide by value of "G"	263
(Water distribution piping material is <u>Type L Copper</u>)	subtotal	0.1029
	Multiply by	100
A. Pressure available for uniform loss	"A" =	10.29



2 WATER PIPING ISOMETRIC
NTS



1 WASTE AND VENT PIPING ISOMETRIC
NTS



GENERAL NOTES -- DEMOLITION

- 1. THE EXTENT OF THE EXISTING PIPING, VALVES, EQUIPMENT, ETC MAY NOT BE SHOWN IN ITS ENTIRETY. EXISTING PIPING SHOWN ON PLANS WAS TAKEN FROM EXISTING PLANS AND IS APPROXIMATE. FIELD VERIFY EXACT SIZE, LOCATION, AND CONFIGURATION OF EXISTING PIPING.
- 2. IT IS THE INTENT OF THESE DOCUMENTS THAT FIXTURES DESIGNATED TO BE REMOVED SHALL INCLUDE THE REMOVAL OF ALL INCIDENTAL BRANCH PIPING SERVING THAT FIXTURE OR FIXTURES.
- 3. FIELD VERIFY ALL PLUMBING EQUIPMENT, FIXTURES AND ASSOCIATED PIPING, ETC. TO BE REMOVED.
- 4. NO PIPING SHALL BE ABANDONED IN PLACE. ALL UNUSED EXISTING PIPING SHALL BE REMOVED.

KEYED DEMOLITION NOTES:

- 1. EXISTING PIPING TO BE REMOVED.
- 2. EXISTING PIPING TO REMAIN.
- 3. EXISTING ROOF DRAIN TO BE REMOVED.
- 4. EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO BE REMOVED TO BELOW FLOOR, ABOVE CEILING TO STRUCTURE, AND CAPPED OR PLUGGED.
- 5. REMOVE EXISTING CLEAR WATER SUMP AND FILL IN PIT. PATCH FLOOR TO MATCH EXISTING.

PLUMBING DEMO LEGEND

SYMBOL	ABBR.	DESCRIPTION
---	CW	EXISTING COLD WATER PIPING
---	HW	EXISTING HOT WATER PIPING
---	HW	EXISTING HOT WATER RETURN PIPING
---	W	EXISTING SANITARY PIPING ABOVE GROUND
---	W	EXISTING SANITARY PIPING BELOW GROUND
---	V	EXISTING SANITARY VENT PIPING ABOVE GROUND
---	V	EXISTING SANITARY VENT PIPING BELOW GROUND
---	ST	EXISTING STORM PIPING ABOVE GROUND
---	ST	EXISTING STORM PIPING BELOW GROUND
---		EXISTING PIPING TO BE REMOVED
•		EXISTING AIR DROPS
---CA---	CA	EXISTING COMPRESSED AIR PIPING

1 PLUMBING DEMOLITION PLAN
1/8" = 1'-0"

PLUMBING SHEET INDEX:

PD100	PLUMBING DEMOLITION PLAN
P100	FOUNDATION PLUMBING PLAN
P101	FIRST FLOOR PLUMBING PLAN
P200	PLUMBING ISOMETRICS

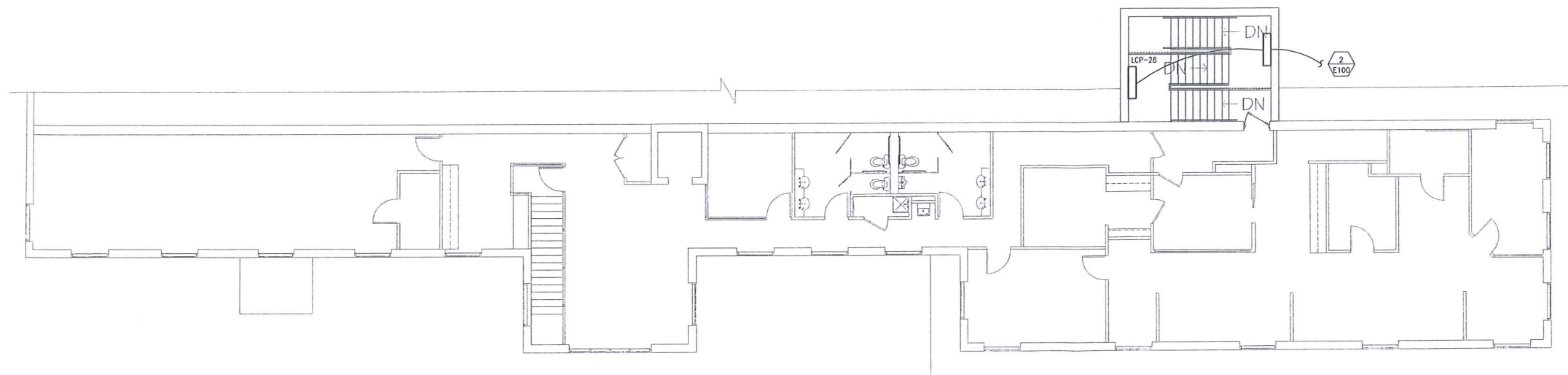
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HCC Project Number: 17-1123.00

BY: **W**
REF: DU/UMC
PROJ: 16095
DATE: 17 NOV 2017
PD100
PLUMBING
DEMOLITION PLAN

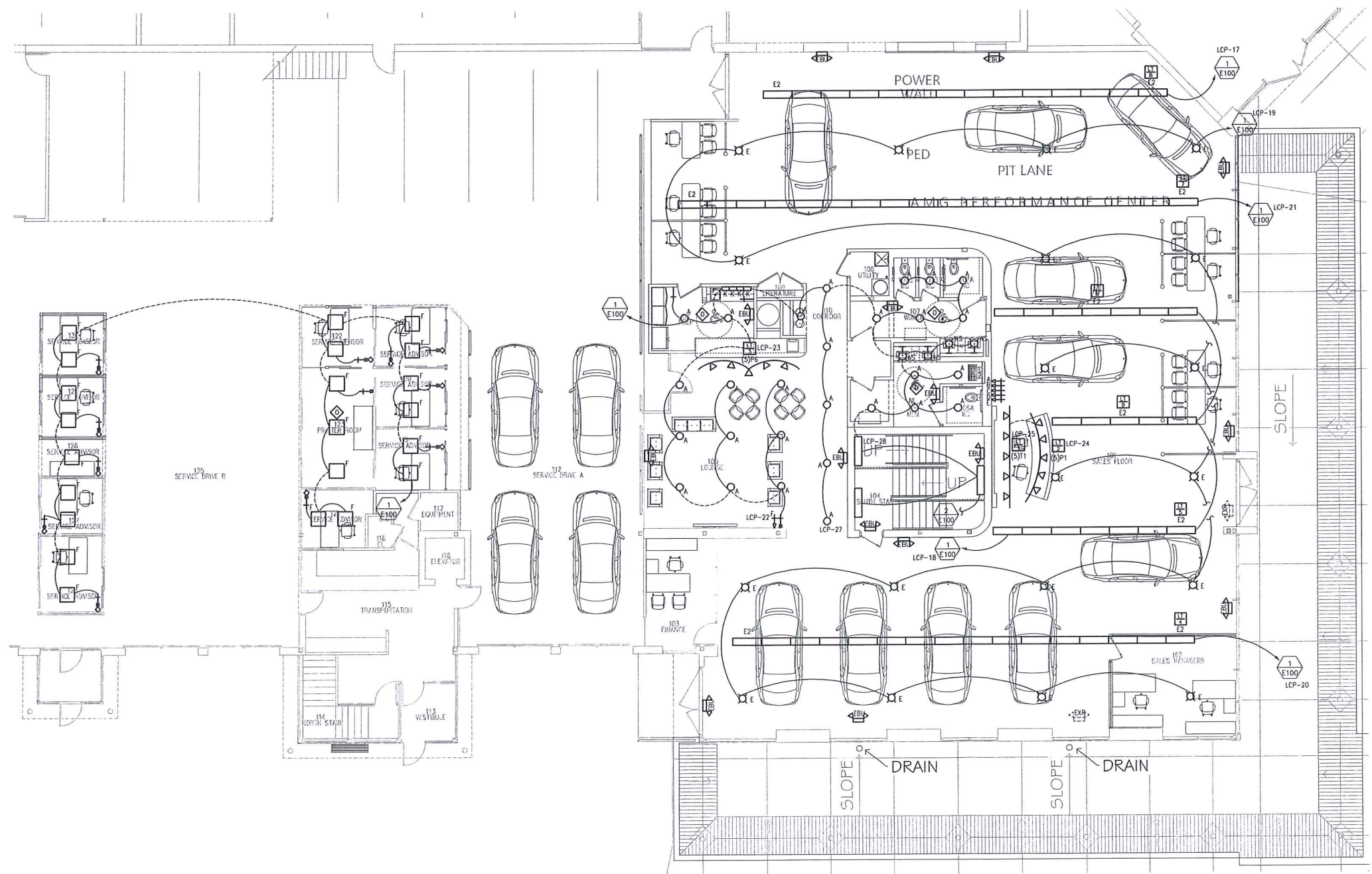
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1 ELECTRICAL MEZZANINE
LIGHTING PLAN
1/8" = 1'-0"



1 ELECTRICAL FIRST FLOOR
LIGHTING PLAN
1/8" = 1'-0"

PLAN NOTES:

1. CONNECT TO A SPARE 20A 120V 1 POLE CIRCUIT BREAKER IN PANEL LC.
2. CONNECT ALL LIGHTING IN STAIRS TOGETHER. CONTROL THROUGH LIGHTING CONTROL PANEL.

GENERAL NOTES:

1. FIELD VERIFY THE EXACT MOUNTING HEIGHT(S)/LOCATION(S) OF THE LIGHT FIXTURE(S) TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, ETC. ANY CONFLICT(S) SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO INSTALLATION.
2. VERIFY FINAL HEIGHT AND LOCATION FOR ALL FIXTURES WITH ARCHITECT PRIOR TO PLACEMENT. COORDINATE WITH ARCHITECTURAL PLANS.
3. LIGHTING CONTROL PANEL CIRCUIT NUMBERS ARE REPRESENTATIVE. CONTRACTOR TO COORDINATE AVAILABLE LCP CIRCUITS AND TO CONNECT LIGHTING TO IT.

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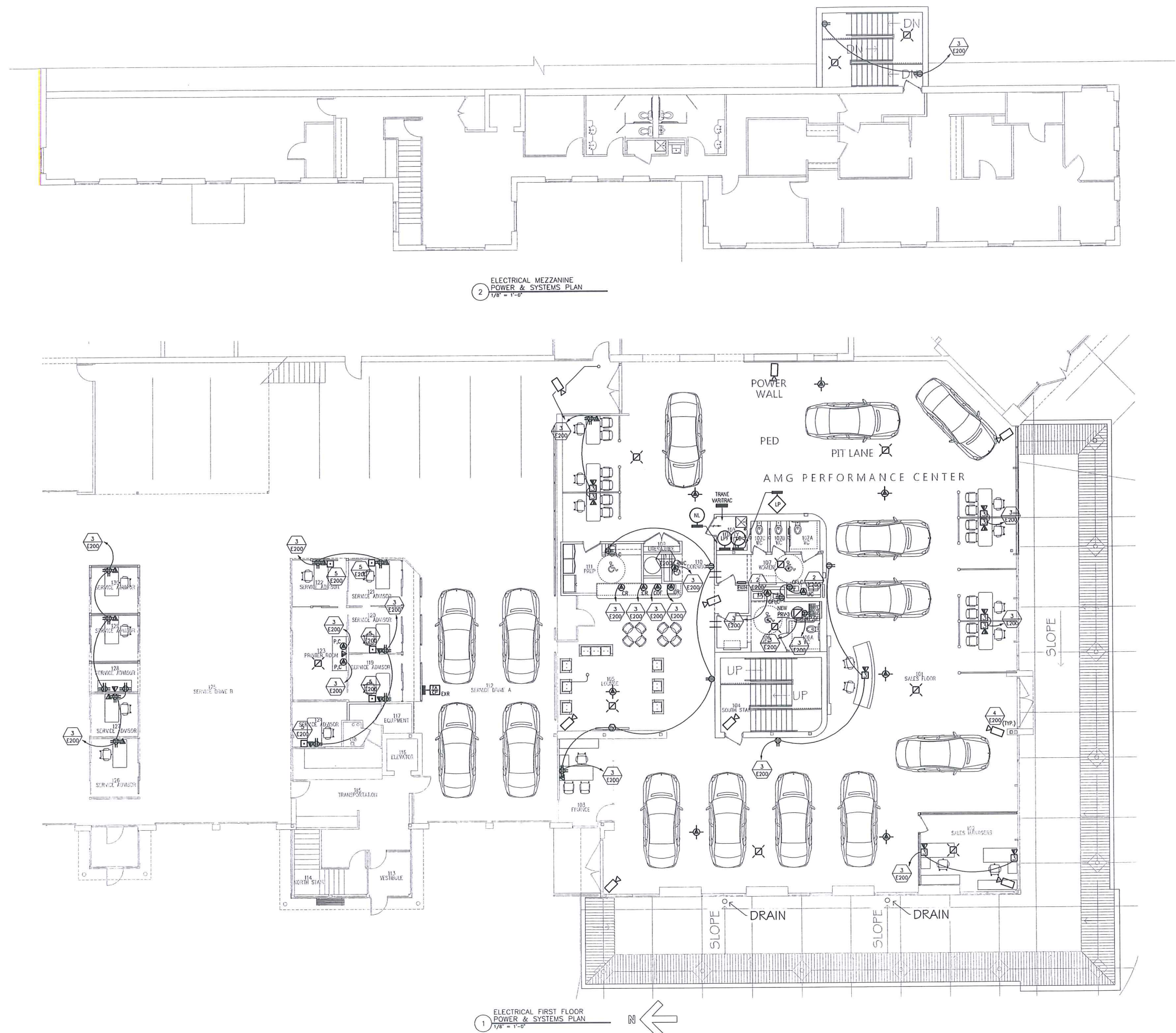
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DATE: 17 NOV 2017

E100

LIGHTING
PLAN

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HSC Project Number: 170123100



2 ELECTRICAL MEZZANINE
POWER & SYSTEMS PLAN
1/8" = 1'-0"

1 ELECTRICAL FIRST FLOOR
POWER & SYSTEMS PLAN
1/8" = 1'-0"

- PLAN NOTES:**
1. PROVIDE A DUPLEX FOR ELECTRIC WATER COOLER. PLACE 18" AFF.
 2. PROVIDE DUPLEX RECEPTACLE BELOW COUNTER FOR SINK ELECTRICAL FIXTURES.
 3. CONNECT TO 120V, 20A, 1 POLE CIRCUIT BREAKER IN PANEL "LC" LOCATED IN NEW ELECTRICAL ROOM.
 4. FINAL CAMERA LOCATION TO BE PROVIDED BY OWNER AND SECURITY CONTRACTOR. CAMERA LOCATION IS SHOWN FOR DATA CONNECTION PURPOSES.
 5. RECONNECT GARAGE DOOR OPENERS IN NEW SERVICE ADVISORS OFFICES. COORDINATE FINAL LOCATION WITH OWNER AND DOOR OPENER CONTRACTOR.

- GENERAL NOTES:**
1. XXX

REVISIONS

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BY: **W**
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PROJ: 16095
DATE: 17 NOV 2017

E200
ELECTRICAL
PLAN

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HSC Project Number: 17-1123-00



LIGHTING FIXTURE SCHEDULE



DES.	DESCRIPTION	LED DATA		VOLT	DEPTH	LIGHTING FIXTURE			DRIVER TYPE	MTG.	MTG. SURF.	SEE NOTE LF
		TYPE/LUMEN/KELVIN	WATTS			MFR.	SERIES	OPTIONS/ACCESSORIES				
A	6" DOWNLIGHT WITH ELECTRIC BALLAST CLEAR ALZAK TRIM	LED (MODULE) 750L, 3500K	12	120	7.5"	NORA LIGHTING	NLCB2/651	30	DRV	REC	LIG	X
E	SPECLUME 12" PENDANT ICON ALUMINUM MAX LED	LED (MODULE) 3000L, 4000K	30	120	2.75"	SPECTRUM	AP12LEDXT/30L 40HK/DS10X/PM12	30	DRV	PEND	EXP	X
E2	LED TRACK LIGHT EXTRUDED ALUMINUM SEMI-SPECULAR REFLECTOR	LED (MODULE) 4460L, 4000K	66	120	4.125"	NORA LIGHTING	NTE-890/66/40	30	DDRV	SURF	EXP	X
F	2X2 HIGH EFFICIENCY AIR RETURN LED FIXTURE	LED (MODULE) 3600L, 4000K	41	URV	3.75"	HE WILLIAMS	HET/G/AR/24/2 OPT/DM/UNV	30	DDRV	REC	VAR	X
P1	PARABOLIC REFLECTOR ADJUSTABLE AIRCRAFT CABLE TRACK PENDANT	LED (MODULE) 1304L, 4000K	18	120	12.13"	EUREKA	4255-UCR-TA1	30	DDRV	SURF	EXP	X
P6	LED PENDANT WHITE DECORATIVE GLASS TRACK PENDANT	LED (MODULE) 520L, 3500K	10	120	16.87"	NORA LIGHTING	NR572-453/35 NRS60-455W	30	DDRV	SURF	GYP	X
T1	DIE-CAST FRONT LED FIXTURE TRACK HEAD	LED (LAMP) 750L, 3000K	12	120	8.75"	NORA LIGHTING	NRS18-133 E33 (LED LAMPS)	30	DDRV	SURF	EXP	X
WS	DECORATIVE WALL SCONCE 16" WIDE LED FIXTURE ALUMINUM ENCLOSURE	LED (MODULE) 3500K	28	120	3.87"	TMS LIGHTING	I/16/28LED/30K 120/DML	30	DDRV	SURF	WM	X
J	LED SURFACE MOUNT STAIRWAY LIGHT FIXTURE 4" LINEAR	LED (MODULE) 5265L, 4000K	43	120	5.17"	LSI LIGHTING	W444/LED/HO/NW UE	30	DRV	SURF	WM	X
K	UNDER CABINET LED LINEAR HIGH OUTPUT ADJUSTABLE FIXTURE	LED (MODULE) 780L, 3500K	7	24VDC	1.187"	LSI LIGHTING	LXC2/12/LED/WW	30	DRV	SURF	UC	X
EBU	EMERGENCY BATTERY UNIT BELIEVED DUAL ROUND HEAD EMERGENCY LIGHT	LED (MODULE)	-	120	-	NORA LIGHTING	NRE-804/W	30	DRV	SURF	EXP	X
X	EXIT SIGN SINGLE FACE LED SIGN	LED (MODULE)	-	120	-	NORA LIGHTING	EDGE-LIT SERIES	30	DRV	SURF	EXP	X

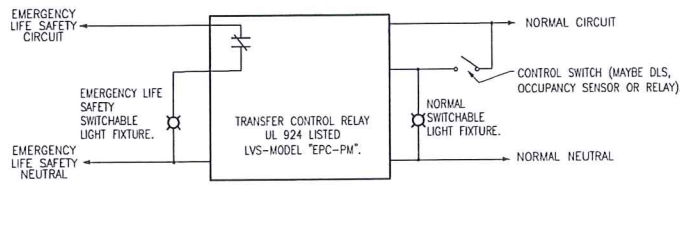
ABBREVIATIONS:
EXP EXPOSED STRUCTURE
LIG LAY-IN GRID
GYP GYPSUM BOARD
VER VERIFY
REC RECESSED
SURF SURFACE
PEND PENDANT
AC AIRCRAFT CABLE SUSP.
WM WALL MOUNTED
GRD GROUND
CONC CONCRETE BASE
MTD MOUNTED
STD STANDARD
SPEC SPECIAL
AR AS REQUIRED
NA NOT APPLICABLE
VAR VARIES
LAS LENGTH AS SHOWN
DRV LED DRIVER
LED DIMMABLE DRIVER

OPTIONS/ACCESSORIES CODE LISTING:
01. 0.125" PATTERN 12 ACRYLIC LENS
02. 0.156" PATTERN 19 ACRYLIC LENS
03. FLUSH STEEL DOOR FRAME
04. FLUSH ALUMINUM DOOR FRAME
05. SEMI-SPECULAR REFLECTOR
06. LOW IRRIDESCENT REFLECTOR
07. REFLECTOR MATCHING TRIM RING
08. DAMP LOCATION LISTED
09. WET LOCATION LISTED
10. STD. FINISH TO BE SELECTED BY ARCHITECT
11. CUSTOM COLOR
12. FURNISH w/ CHAIN HANGERS
13. FURNISH w/ STEM/SWIVEL CANOPY
14. FURNISH w/ AIRCRAFT CABLE
15. FURNISH w/ NEMA HOOK, CORD & PLUG
16. FURNISH w/ SAFETY CHAIN
17. FURNISH w/ WIREGUARD
18. FURNISH w/ AUXILIARY EMERGENCY DRIVER
19. FURNISH w/ INTEGRAL PHOTOCELL
20. FURNISH WITH UNIVERSAL ARROWS AND RED STENCIL FACE
21. FURNISH w/ LEAD CALCIUM BATTERY
22. FURNISH w/ NICAD BATTERY
23. FURNISH w/ SELF-DIAGNOSTICS
24. FURNISH w/ LED DRIVER, NON-DIMMED
25. FURNISH w/ LED DRIVER, STEP-DIMMED
26. FURNISH w/ LED DRIVER, DIMMABLE TO 10%
27. FURNISH w/ LED DRIVER, DIMMABLE TO 5%
28. FURNISH w/ LED DRIVER, DIMMABLE TO 1%
29. FURNISH w/ LED DRIVER, DIMMABLE TO 0.1%
30. FURNISH w/ PAINT AFTER FABRICATION

LIGHT TRACK SCHEDULE



DES.	LOCATION	LIGHT TRACK			FIXTURE		CIRCUITING		CONTROL	SEE NOTE
		MFR.	CAT. NO.	LENGTH	NO.	TYPE	PNL.	CKT. NO.		
LT1	SALES FLOOR 101	NORA LIGHTING	NRS18-133 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT2	SALES FLOOR 101	BESA LIGHTING	4255-UCR-TA1 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT3	LOUNGE 105	NORA LIGHTING	NR572-453/35 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT4	SALES FLOOR 101	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT5	SALES FLOOR 101	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT6	SALES FLOOR 101	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT7	AVG PERFM CENTER	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT8	AVG PERFM CENTER	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22
LT9	SALES FLOOR 101	NORA LIGHTING	NTE-890/66/40 W/MONORAIL TRACK	SEE DRAWING		SEE SCHEDULE	SEE	DRAWING	■+	LF22



EMERGENCY LIFE SAFETY SWITCHING CIRCUIT.

E300 NTS

- NOTES:
1. PROVIDE (1) RELAY PER SWITCHED LEG.

EMERGENCY LIFE SAFETY DIMMING CIRCUIT.

E300 NTS

- NOTES:
1. PROVIDE (1) RELAY PER SWITCHED LEG.

LIGHTING FIXTURE SCHEDULE NOTES:

NOTES LF1 - LF21 ARE GENERAL NOTES APPLICABLE TO ENTIRE LIGHTING FIXTURE SCHEDULE WHERE APPROPRIATE.

LF1 - PROVIDE ALL PAINTED FIXTURES WITH PAINT AFTER FABRICATION WITH POLYESTER PAINT.

LF2 - PROVIDE ALL NECESSARY COMPONENTS AND ACCESSORIES FOR A COMPLETE OPERATING INSTALLATION PER APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.

LF3 - PROVIDE CEILING SPACERS AS REQUIRED FOR ALL SURFACE MOUNTED FIXTURES UNLESS FIXTURE IS LABELED AS SUITABLE FOR DIRECT MOUNTING TO A LOW DENSITY CEILING.

LF4 - PROVIDE SLOPE ADAPTERS FOR ALL SURFACE MOUNTED, RECESSED, SUSPENDED FIXTURES AND LIGHT TRACK AS NEEDED TO ACCOMMODATE THE SLOPE OF THE CEILING.

LF5 - INCLUDE IN THE BASE BID THE COST FOR FURNISHING, INSTALLING, WIRING AND CONNECTING FOR A COMPLETE OPERATING INSTALLATION AN ADDITIONAL EXIT FIXTURE OF EACH TYPE INDICATED IN THE LIGHTING FIXTURE SCHEDULE.

LF6 - CONTRACTOR SHALL REVIEW THE ENTIRE LIGHTING FIXTURE SCHEDULE INCLUDING THE DESCRIPTION AND CATALOG NUMBER. CONTRACTOR SHALL NOTIFY THE A/E OF ANY DISCREPANCIES PRIOR TO BIDDING.

LF7 - VERIFY ALL FINISHES/COLORS OF FIXTURES WITH A/E PRIOR TO ORDERING.

LF8 - CONTRACTOR SHALL VERIFY THAT THE FIXTURE INSTALLATION TYPE IS COMPATIBLE WITH CEILING CONSTRUCTION PRIOR TO INSTALLATION.

LF9 - FIELD VERIFY THE EXACT LOCATIONS OF THE LIGHTING FIXTURES TO AVOID CONFLICT WITH MECHANICAL EQUIPMENT, DUCTWORK, PIPES, STRUCTURAL MEMBERS, ARCHITECTURAL FEATURES, ETC. ANY CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.

LF10 - IN ALL INSULATED CEILINGS, WALLS, AND WHERE RECESSED FIXTURES PENETRATE THE BUILDING ENVELOPE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AN AIRTIGHT INSTALLATION AND PROPER CLEARANCES BETWEEN RECESSED FIXTURES AND THE INSULATION. THIS CAN BE ACCOMPLISHED BY PROPER TENCING OR BOXING-OUT AROUND RECESSED FIXTURES THAT DO NOT HAVE IC RATINGS, OR REPLACEMENT OF THOSE FIXTURES HAVING PROPER IC AND AIRTIGHT RATINGS. REFER TO THE ARCHITECTURAL PLANS FOR APPLICABLE AREAS.

LF11 - IN ALL FIRE-RATED CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FIRE RATING. REFER TO ARCHITECTURAL PLANS FOR APPLICABLE AREAS.

LF12 - PROVIDE OCCUPANCY SENSORS AS SHOWN ON THE PLANS. REFER TO THE SPECIFICATIONS FOR MORE INFORMATION.

LF13 - PROVIDE COMPATIBLE DIMMING SWITCHES PER MANUFACTURER'S RECOMMENDATIONS.

LF14 - FIELD VERIFY THE EXACT LOCATION OF ALL SURFACE MOUNTED FIXTURES TO AVOID CONFLICT WITH ARCHITECTURAL FEATURES, INCLUDING PAINT/WALL COVERING SCHEMES, DECORATIVE TRIMS, ETC. CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE A/E PRIOR TO ROUGH IN.

LF15 - PROVIDE (1) EXTRA LED MODULE AND LED DRIVER OF EACH TYPE INDICATED IN LIGHT FIXTURE SCHEDULE AND TURN OVER TO OWNER.

LF16 - IN ALL PLENUM RATED CEILING CAVITIES PROVIDE PLENUM RATED TROFFERS AND OTHER TYPES OF LIGHTING FIXTURES IF REQUIRED BY LOCAL CODE(S).

LF17 - IN LOCATIONS OF LIFE SAFETY EGRESS ROUTE, WHERE ONE LIGHT FIXTURE IS EMPLOYED, (2) LED MODULES AND (2) LED DRIVERS ARE REQUIRED IN THE FIXTURE TO COMPLY TO N.E.C. ARTICLE 700.16 EMERGENCY ILLUMINATION.

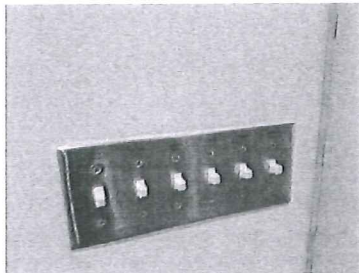
LF18 - FOR EXTERIOR WALL MOUNTED FIXTURES, PROVIDE SEALANT AROUND MOUNTING PLATE TO PROTECT AGAINST MOISTURE INSIDE OF FIXTURE.

LF19 - EXCEPT FOR HAZARDOUS RATED AND BATTERY COMPONENTS OF EMERGENCY FIXTURES, ALL LED DRIVERS SHALL HAVE A DISCONNECTING MEANS DESCRIBED IN NEC 410.730. THIS DISCONNECT MUST BE ACCESSIBLE WITHIN THE FIXTURE AT OR NEAR THE DRIVER.

LF20 - AUXILIARY EMERGENCY DRIVERS FOR EXTERIOR FIXTURES SHALL BE REMOTELY MOUNTED INSIDE BUILDING. THE EMERGENCY DRIVER MAY BE REMOTELY MOUNTED UP TO (1/2) THE DISTANCE AS THE DRIVER MANUFACTURER RECOMMENDS REMOTING THAT DRIVER FROM THE SOURCE. FIXTURES SHALL BE WIRED SWITCHABLE UNLESS NOTED OTHERWISE.

LF21 - LIGHT FIXTURES SPECIFIED ESTABLISH A LEVEL OF QUALITY WHICH SHALL BE MET BY ALL FIXTURES PROVIDED. FIXTURES SHALL BE COMPARABLE IN PERFORMANCE, CONSTRUCTION, PHYSICAL APPEARANCE, FINISH AND FEATURES IN ORDER TO BE CONSIDERED EQUIVALENT. FIXTURES NOT DEEMED "EQUIVALENT" MAY NOT BE SUBMITTED AS AN "ALTERNATE" OR "SUBSTITUTE" FIXTURE TO THAT WHICH WAS SPECIFIED. DETERMINATION OF "EQUIVALENCY" SHALL BE THE RESPONSIBILITY OF A/E. THERE SHALL BE NO ADDITIONAL COST ASSOCIATED WITH REJECTION OF A FIXTURE NOT DEEMED "EQUIVALENT" BY THE A/E.

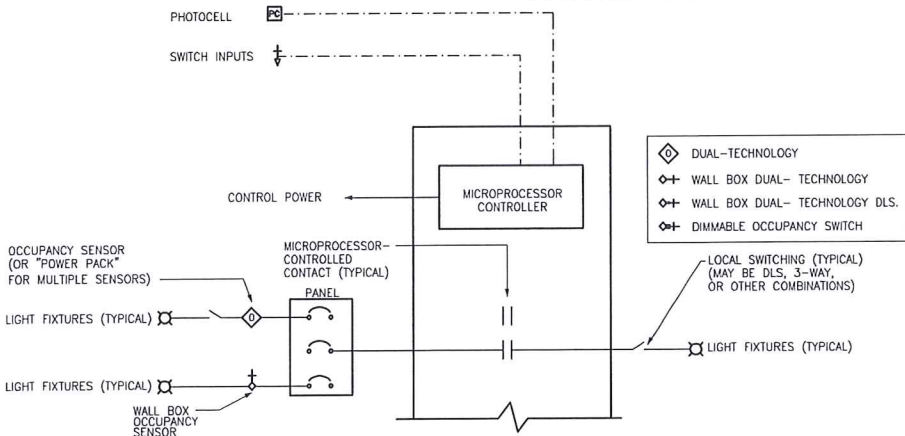
LF22- TRACK SHALL BE MOUNTED TO MANUFACTURER'S RECOMMENDATIONS, UTILIZING ALL COMPONENTS AND ACCESSORIES FOR APPROPRIATE AESTHETICS AND OPERATION, INCLUDING BUT NOT LIMITED TO, DRIVERS, END CAPS, PROPER MOUNTING HARDWARE, APPROPRIATE ADAPTORS, AND ELBOWS WERE NEEDED.



EXISTING SWITCHSTATION

E300 NTS

- NOTES:
1. REMOVE PER DEMOLITION PLAN.



LIGHTING CONTROL DETAIL

E300 NTS

OCCUPANCY SENSOR NOTES:

- UNLESS NOTED OTHERWISE, OCCUPANCY SENSORS USED IN CONJUNCTION WITH LOCAL LINE VOLTAGE SWITCHING SHALL BE ELECTRICALLY LOCATED ON THE PANEL SIDE OF THE SWITCH, AS INDICATED IN THE ABOVE DIAGRAM.
- IN ROOMS SHOWN WITH TWO OR MORE OCCUPANCY SENSORS, IT IS INTENDED THAT BOTH SENSORS CONTROL THE SAME LIGHT FIXTURES VIA A COMMON "POWER PACK" UNLESS NOTED OTHERWISE.
- POWER PACKS SHALL BE LOCATED IN THE CEILING SPACE DIRECTLY ABOVE THE LOCAL WALL SWITCHES WHENEVER FEASIBLE.
- USE OF THE OCCUPANCY SENSOR SYMBOL IN A ROOM INDICATES THE TYPE OF SENSOR TO BE USED TO CONTROL ALL LIGHTS IN THAT SPACE INCLUDING UNDER CABINET LIGHT FIXTURE. EXACT LOCATION, MOUNTING, AND CONFIGURATION OF SENSOR SHALL BE DETERMINED IN THE FIELD, BASED UPON MANUFACTURERS RECOMMENDATIONS AND GUIDELINES.
- SPECIFIC MODEL OF OCCUPANCY SENSOR SHALL BE COORDINATED WITH ROOM SIZE, LAYOUT, CEILING HEIGHT AND MOUNTING REQUIREMENTS, SENSOR MANUFACTURER, AND CONTRACTOR. VERIFY DEVICE COLOR WITH ARCHITECT PRIOR TO ORDERING.
- OCCUPANCY SENSOR MANUFACTURER SHALL PROVIDE HARD COPIES AND ELECTRONIC AUTOCAD DRAWINGS FILES OF THE LOCATION AND MODEL NUMBERS OF ALL ASSOCIATED EQUIPMENT.
- CONTRACTOR SHALL PROVIDE A COIL OF WIRING 4'-5' IN LENGTH IN A J-BOX AT EACH OCCUPANCY SENSOR LOCATION FOR FUTURE RELOCATION IF DESIRED BY OWNER.
- MOTION SENSORS SHALL BE LINKABLE OR HAVE AUXILIARY CONTACTS TO CONTROL MULTIPLE LOADS SUCH AS BUT NOT LIMITED TO HVAC LOADS.

EMERGENCY LIFE SAFETY DIMMING CIRCUIT.

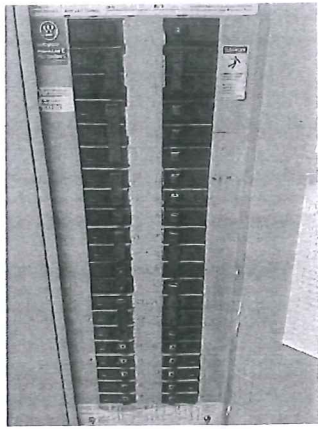
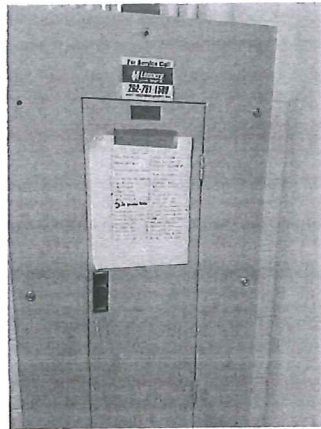
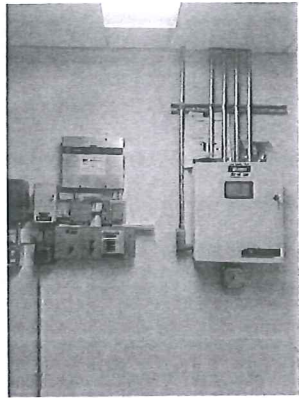
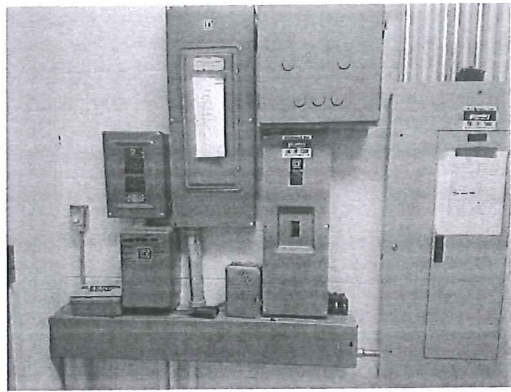
E300 NTS

- NOTES:
1. PROVIDE (1) RELAY PER SWITCHED LEG.

EMERGENCY LIFE SAFETY SWITCHING CIRCUIT.

E300 NTS

- NOTES:
1. PROVIDE (1) RELAY PER SWITCHED LEG.



1
E400

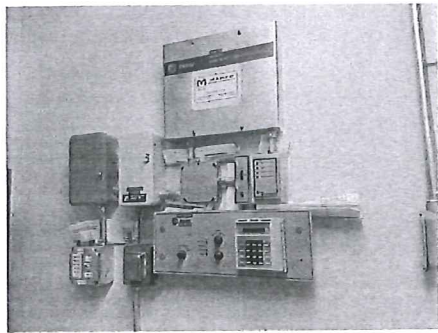
EXISTING ELECTRICAL ROOM LAYOUT
NO SCALE

NOTES:
1. EXISTING ELECTRICAL ROOM TO REMAIN IN PLACE UNTIL NEW ELECTRICAL ROOM IS FAR ENOUGH IN CONSTRUCTION FOR NEW PANEL LOCATIONS.

2
E400

EXISTING PANEL 'LC'- 225A 208Y/120V 3PH 4W
NO SCALE

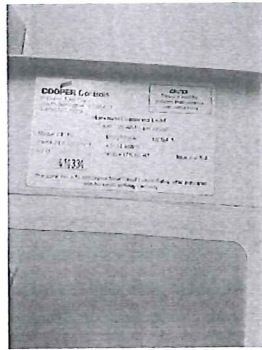
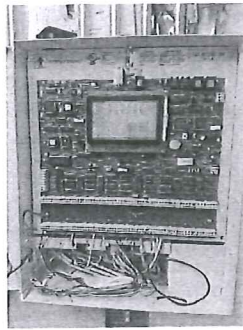
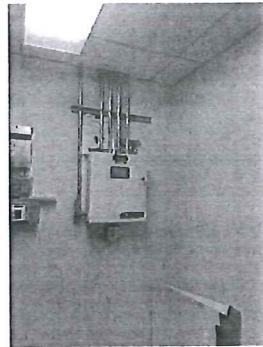
NOTES:
1. PANEL BRANCH CIRCUITS TO BE RELOCATED TO NEW LOCATION OF PANEL LC IN NEW ELECTRICAL ROOM AFTER THE DEMOLISHING OF CURRENT ELECTRICAL ROOM.
2. ALL BRANCH CIRCUITS CURRENTLY CONNECTED TO LIGHTING CONTROL SHALL BE RECONNECTED AND REPROGRAM TO LIGHTING CONTROL'S PANEL NEW LOCATION.



3
E400

EXISTING TRANE RTA SYSTEM
NO SCALE

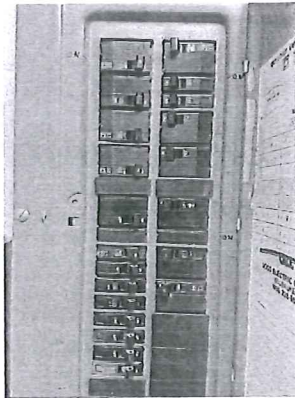
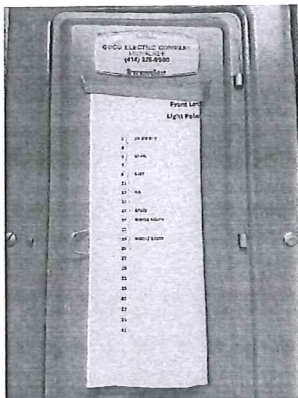
NOTES:
1. COORDINATE WITH MECHANICAL DRAWINGS AND OWNER FOR RELOCATION OF TRANE VARITRAC SYSTEM TO NEW LOCATION IN NEW ELECTRICAL ROOM.
2. SYSTEM TO OPERATE AS IS IN NEW LOCATION.



4
E400

EXISTING GREENGATE LCP
NO SCALE

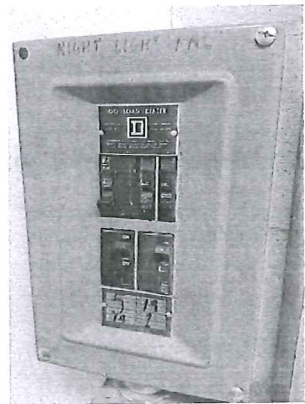
NOTES:
1. LIGHTING CONTROL PANEL TO BE RELOCATED TO NEW LOCATION.
2. CONTRACTOR TO REPROGRAM LIGHTING CONTROL PANEL WITH NEW ADDITIONAL CIRCUITS IN SHOW ROOM AND TO RECONNECT ALL THE PREVIOUS CIRCUITS THE PANEL WAS CONTROLLING.
3. GREENGATE BY COOPER CONTROLS, MODEL # CK 16 PART #01-022700-03



5
E400

EXISTING FRONT LOT LIGHT POLES PANEL
NO SCALE

NOTES:
1. PANEL TO REMAIN IN EXISTING ELECTRICAL ROOM UNTIL NEW LOCATION IS AVAILABLE FOR PANEL. CAUSE AS LITTLE INTERRUPTIONS AS POSSIBLE SINCE PANEL IS CONTROLLING OUTSIDE LIGHTS AND SIGNS.



5
E400

EXISTING NIGHT LIGHT PANEL
NO SCALE

NOTES:
1. COORDINATE THE RE-CIRCUITING OF CIRCUIT BREAKERS INTO NIGHT LIGHT PANEL IN NEW ELECTRICAL ROOM.

SPECIAL OUTLET SCHEDULE															R - RECEPTACLE D - DISCONNECT B - JUNCTION BOX		
NO.	TO FEED	LOC.	FEED FROM		BREAKER		WIRING				TERMINAL			VOLT	Ø	LOAD (KW)	SEE NOTE
			PANEL	CKT.	SIZE	POLE	NO.	SIZE	GND	COND.	R	D	B				
CR	COUNTER RECEPTACLE	LOUNGE	SEE	DWG	20	1	2	10	10	3/4	X			120	1	1.5	2
COF	COFFEE MACHINE	LOUNGE	SEE	DWG	20	1	2	12	12	1/2	X			120	1	1.2	2
EWC	ELECTRIC WATER COOLER	CORRIDOR	SEE	DWG	20	1	2	12	12	1/2	X			120	1	1	1,2
P	PRINTER	PRINTER ROOM	SEE	DWG	20	1	2	12	12	1/2	X			120	1	1.2	2
UC	UNDER CABINET PLUMBING RECEPTACLE	RESTROOMS	SEE	DWG	20	1	2	12	12	1/2	X			120	1	0.5	2,3

SPECIAL OUTLET SCHEDULE NOTES:

1. PLACE DUPLEX OUTLET 18" AFF. COORDINATE FINAL LOCATION WITH PLUMBING DRAWINGS AND OWNER.
2. ELECTRICAL INFORMATION SHOWN IS FOR BIDDING PURPOSES ONLY. VERIFY AND COMPLY WITH EXACT ELECTRICAL REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
3. PLACE RECEPTACLE UNDER THE SINK COUNTER AS CLOSE TO THE SINK AS POSSIBLE. COORDINATE FINAL LOCATION WITH PLUMBING DRAWINGS AND OWNERS.



6
E400

EXISTING GARAGE DOOR OPENERS
NO SCALE

NOTES:
1. COORDINATE THE RE-CIRCUITING OF CIRCUIT BREAKERS INTO NIGHT LIGHT PANEL IN NEW ELECTRICAL ROOM.

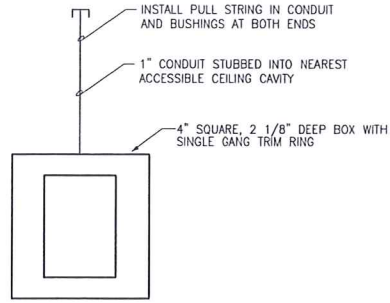
REVISIONS

DENTON
ARCHITECTURE
1032 JAMISON ROAD | NORTH MILWAUKEE, WI 53209 | TEL: 414.754.4000

Mercedes-Benz

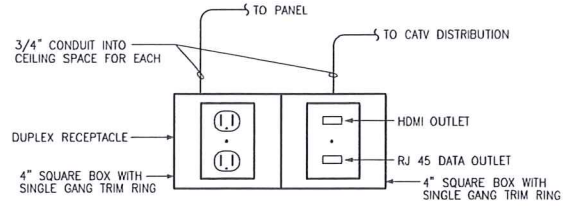


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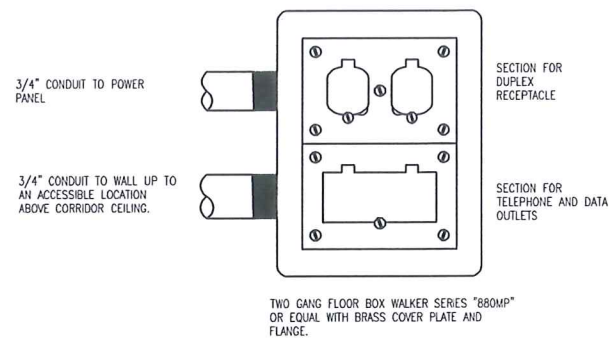
1
E500
TYPICAL DATA/TELEPHONE OUTLET
NTS

NOTES:
1. IF THE CONTRACTOR IS NOT PROVIDING TERMINATION JACKS, PROVIDE A BLANK COVERPLATE. COVERPLATE SHALL MATCH COLOR OF RECEPTACLE COVERPLATE.

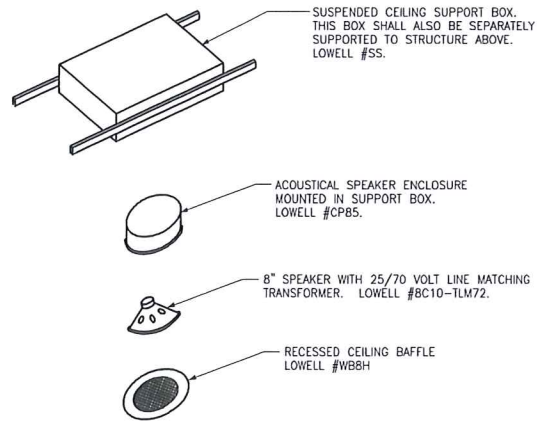


2
E500
RECEPTACLE/TV OUTLET DETAIL
NTS

NOTES:
1. VERIFY CHALK AND TACK LOCATIONS PRIOR TO ROUGH-IN. DO NOT ROUGH-IN BEHIND BOARDS.

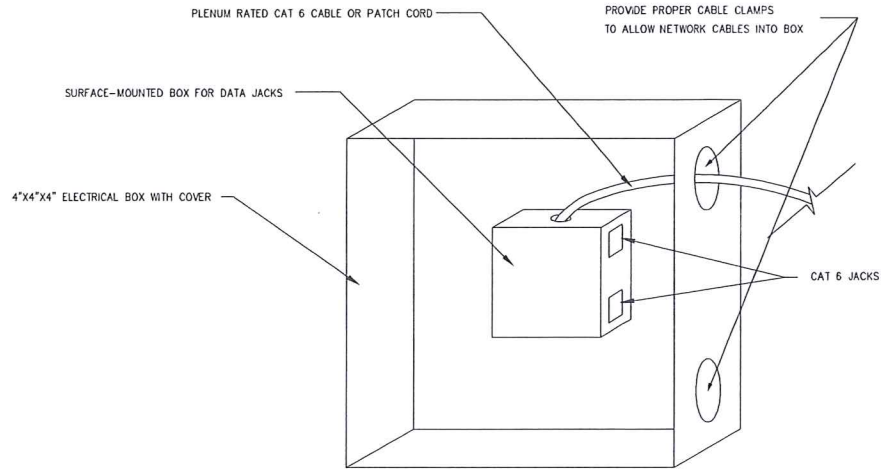


3
E500
TWO GANG FLUSH FLOOR BOX DETAIL
NTS



4
E500
PUBLIC ADDRESS SPEAKER DETAIL
NTS

NOTES:
1. SPEAKER TO BE CONNECTED TO EXISTING PUBLIC ADDRESS CIRCUIT IN CORRIDOR. THE CONTRACTOR SHALL DETERMINE EXISTING CIRCUIT VOLTAGE AND IMPEDANCE AND PROVIDE APPROPRIATE MULTI-TAP (4 TAPS) LINE MATCHING TRANSFORMER.
2. TRANSFORMER TAP SETTING SHALL BE MADE UPON SOUND LEVEL VERIFICATION WITH HOSPITAL STAFF.
3. ALL SPEAKER WIRING SHALL BE IN CONDUIT.



5
E500
WIRELESS ACCESS POINT DETAIL
NTS

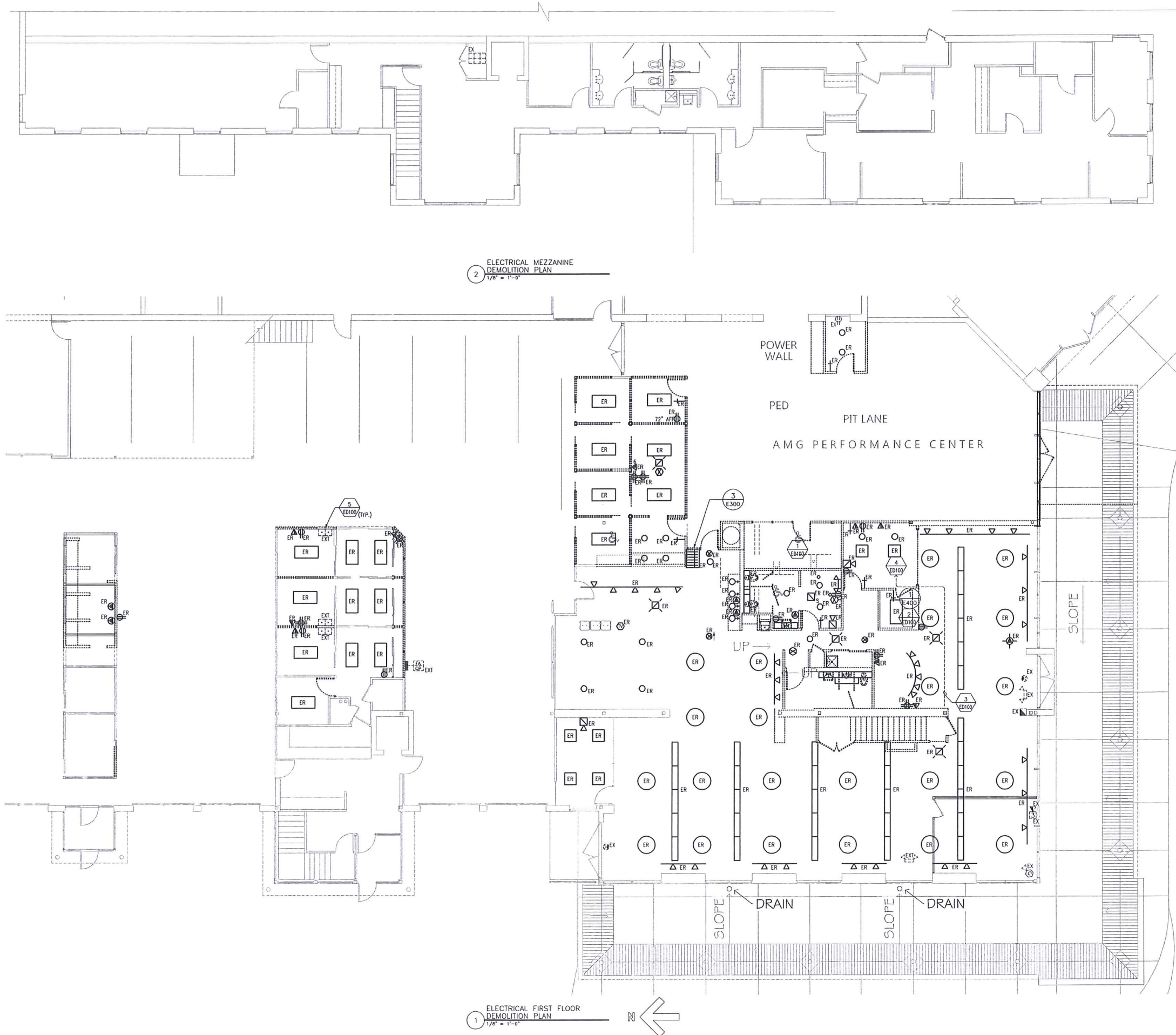
NOTES:
1) ELECTRICAL BOX TO BE PAINTED BLUE TO INDICATE DATA LOCATION
2) ELECTRICAL BOX REQUIRED IN ALL PLENUM SPACES. ELECTRICAL BOX MAY BE ELIMINATED IN NON-PLENUM AREAS.

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- PLAN NOTES:**
1. REMOVE ALL ELECTRICAL FIXTURES, EQUIPMENT, AND LIGHT FIXTURES IN THIS SPACE. COORDINATE PER DEMOLITION NOTES.
 2. EXISTING ELECTRICAL ROOM TO REMAIN IN PLACE UNTIL NEW ELECTRICAL ROOM IS FAR ENOUGH IN CONSTRUCTION FOR NEW PANEL LOCATIONS.
 3. 4" TELECOM FROM UPSTAIRS ACCOUNTING OFFICE TO REMAIN IN PLACE. ALL DEMOLISHING WORK OCCURRING NEAR IT SHOULD NOT AFFECT THE TELECOM POSITION.
 4. CABLE RUNS TO EAST END OFFICE IDF. SEE NOTE 3/ED100.
 5. EXISTING GARAGE DOOR OPENERS TO BE RELOCATED TO NEW SERVICE ADVISORS OFFICES. COORDINATE FINAL LOCATION WITH OWNER.

- GENERAL NOTES:**
1. THIS DRAWING DOES NOT INDICATE ALL ELECTRICAL FIXTURES AND DEVICES TO BE REMOVED. ALSO, ALL RECEPTACLES, COMMUNICATION, AND OTHER OUTLETS ARE NOW SHOWN. IF A DETAILED QUANTITY OF DEMOLISHED FIXTURES AND DEVICES IS REQUIRED BY THE CONTRACTOR FOR BIDDING, THE CONTRACTOR SHALL VERIFY IN PERSON AS NEEDED PRIOR TO BIDDING.

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HSC Project Number: 17-1123.00

ED100
ELECTRICAL
DEMOLITION PLAN

SYMBOLS LIST NOTE:

ANY SYMBOLS UTILIZED ON THE FLOOR PLANS NOT OTHERWISE ON THE SYMBOLS LIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS PRIOR TO BIDDING FOR CLARIFICATION.

LIGHTING

- LED LIGHTING FIXTURE – SEE SCHEDULE
- UNDERCABINET LIGHTING FIXTURE.
- WALL MOUNTED FIXTURE
- EMERGENCY BATTERY UNIT LIGHT FIXTURE – SURFACE MOUNTED
- LIGHT TRACK ASSEMBLY –
INDICATES LIGHT TRACK DESIGNATION
- CEILING RECESSED LIGHTING FIXTURE.
- WALL RECESSED LIGHTING FIXTURE.
- CEILING SURFACE MOUNTED LIGHTING FIXTURE.
- WALL MOUNTED LIGHTING FIXTURE.
- EXIT LIGHTING FIXTURE
- EMERGENCY LIGHT
- LOCAL SWITCH, SINGLE POLE – MOUNTED 48" AFF.
- LOCAL SWITCH, SINGLE POLE – MOUNTED 6" ABOVE COUNTER.
- LOCAL SWITCH, SINGLE POLE – 3-WAY.
- LOCAL SWITCH, SINGLE POLE – 4-WAY.
- LOCAL SWITCH – WEATHERPROOF
- WALLBOX DIMMER – MOUNTED 48" AFF.
- OCCUPANCY SENSOR SWITCH – MOUNTED 48" AFF
- CEILING MOUNTED OCCUPANCY SENSOR
- WALL-MOUNTED OCCUPANCY SENSOR
- LOCAL SWITCH, SINGLE POLE, WITH DUPLEX RECEPTACLE
–MOUNTED 48" AFF.
- LOCAL SWITCH, SINGLE POLE, WITH DUPLEX RECEPTACLE
–MOUNTED 6" ABOVE COUNTER.
- LOW VOLTAGE LIGHTING CONTROL PANEL
- DUAL TECHNOLOGY, DIMMABLE WALL SWITCH – MOUNTED 48" AFF.

FIRE ALARM SYSTEM

- MANUAL PULL STATION – MOUNTED AT 48" AFF.
- AUDIO/VISUAL SIGNAL DEVICE (HORN/STROBE) – MOUNTED AT 80" AFF
OR 6" BELOW CEILING, WHICHEVER IS LOWER 75 CANDELA
UNLESS NOTED OTHERWISE
- AUDIO/VISUAL SIGNAL DEVICE (SPEAKER/STROBE) CEILING MOUNTED.
75 CANDELA UNLESS NOTED OTHERWISE
- SMOKE DETECTOR.
- DUCT SMOKE DETECTOR.
- FIRE ALARM CONTROL PANEL (FACP).
- FIRE ALARM REMOTE ANNUNCIATOR.

CIRCUIT DESIGNATIONS

- BRANCH CIRCUIT – COMMON CONTROL, INCLUDES GREEN GROUND WIRE,
NEUTRAL AND PHASE WIRES.
- FIRE ALARM SIGNAL CIRCUIT.
- INTERCOM CIRCUIT

MISCELLANEOUS SYMBOLS

- INDICATES DETAIL NUMBER
- SEE DETAIL
- INDICATES SHEET NUMBER
- INDICATES NOTE NUMBER
- SEE NOTE
- INDICATES SHEET NUMBER

POWER & DIAGRAMS

- DUPLEX RECEPTACLE – MOUNTED 18" AFF.
- DUPLEX RECEPTACLE – MOUNTED VERTICALLY
6" ABOVE COUNTER OR HORIZONTALLY
4" ABOVE BACKSPASH.
- DUPLEX RECEPTACLE – GROUND FAULT CIRCUIT INTERRUPTER TYPE.
- DUPLEX RECEPTACLE – WEATHER PROOF, GFI WEATHER RESISTANT
WITH METAL WHILE-IN-USE. COVER AS SPECIFIED
- QUADRUPLEX RECEPTACLE – TWO DUPLEX RECEPTACLES UNDER A COMMON
COVERPLATE.
- SPECIAL PURPOSE OUTLET – SEE SCHEDULE.
- MOTOR – SEE SCHEDULE. SEE MECHANICAL/ELECTRICAL SHEETS FOR
ELECTRICAL INFORMATION OF HVAC EQUIPMENT INDICATED ON DRAWINGS.
- DISCONNECT SWITCH.
- DISCONNECT SWITCH – FUSIBLE.
- PHOTOCELL.
- TIME CLOCK.
- SWITCH – NON FUSED.
AMPS, POLES.
- SWITCH – FUSED
AMPS, POLES.
- CIRCUIT BREAKER
AMPS, POLES.
- LIGHTNING/SURGE ARRESTER.
- DATA OUTLET MOUNTED IN FINISHED CEILING FOR USE WITH ACCESS POINT.
- SECURITY CCTV CAMERA FOR DATA CONNECTION
- COMBINATION POWER/TELEVISION CABLE OUTLET – SEE DETAIL
- DATA OUTLET – MOUNTED AT 18" AFF
MINIMUM 2 – CAT 6 CABLE UNLESS INDICATED WITH
INDICATING QUANTITIES OF CABLES
- METER.
- DEMAND METER.
- AUTOMATIC TRANSFER SWITCH
- ELECTRICAL DISTRIBUTION PANEL – EXISTING
- ELECTRICAL DISTRIBUTION PANEL – NEW 120/208V
- GROUND
- COMBINATION MOTOR STARTER (MCC BUCKET)
- ENCLOSED CIRCUIT BREAKER
- TRANSFORMER
- LOUDSPEAKER – FLUSH MOUNTED IN CEILING
- LOUDSPEAKER – SURFACE MOUNTED IN CEILING
- LOUDSPEAKER – FLUSH MOUNTED ON WALL
- LOUDSPEAKER – SURFACE MOUNTED ON WALL
- CEILING SPEAKER – DUAL TAP, COMBINATION PAGING AND INTERCOM.
- HORN LOUDSPEAKER – SURFACE MOUNTED

SHEET INDEX

- EL SYMBOLS, ABBREVIATION AND NOTES
E0100 ELECTRICAL DEMOLITION PLAN
E100 LIGHTING PLAN
E200 ELECTRICAL PLAN
E300 LIGHTING SCHEDULES & DETAILS
E400 ELECTRICAL SCHEDULES
E500 ELECTRICAL DETAILS

GENERAL RENOVATION/DEMOLITION NOTES:

- ELECTRICAL DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE. FOR AREAS BEING REMODELED, WORK SHOWN REFLECTS INFORMATION SHOWN ON AS-BUILT PLANS AND FIELD OBSERVATION; IT IS NOT GUARANTEED 100% ACCURATE. THIS CONTRACTOR MUST FIELD VERIFY CONDITIONS AND MAKE NECESSARY ADJUSTMENTS WITHOUT EXTRA COSTS TO THE PROJECT TO SUIT ACTUAL NEEDS.
- THE CONTRACTOR SHALL REWIRE/REROUTE/RELOCATE, AS REQUIRED DUE TO CONSTRUCTION, ALL EXISTING CIRCUITS AND EQUIPMENT WHICH ARE TO CONTINUE IN OPERATION.
- MAINTAIN THE INTEGRITY OF ALL SYSTEMS AFFECTED BY THE REMOVAL OR ADDITION OF ELECTRICAL DEVICES AND CONTROLS IN REMODELED AREAS.
- ALL ELECTRICAL PANELS SHALL REMAIN IN PLACE AS IS, UNLESS INDICATED OTHERWISE. PANELS EXPOSED TO PUBLIC SHALL BE PROVIDED WITH A LOCKABLE COVER. TURN KEY(S) OVER TO OWNER. PROVIDE GROUND TERMINATE BUS IN A FLUSH JUNCTION BOX ABOVE PANEL BOARD TO ACCOMMODATE ISOLATED GROUNDING TYPE RECEPTACLES.
- PROVIDE COMPLETE UPDATED DIRECTORIES FOR ALL PANELS AND SWITCHBOARD AFFECTED BY CONSTRUCTION. BREAKERS RELAYED FROM DUTY AND NOT BEING USED SHALL BE SWITCHED OFF AND LABELED "SPARE".
- CIRCUITS INDICATED ARE INTENDED TO DENOTE WHICH DEVICES/FIXTURES ARE TO BE WIRED TO A COMMON CIRCUIT BREAKER, AND NOT ITS POSITION IN THE PANEL. UTILIZE RELIEVED/SPARE CIRCUIT BREAKER MOUNTING SPACES, PROVIDE CIRCUIT BREAKERS AS REQUIRED. REBALANCE LOADS BETWEEN PHASES (MAX. 7.5%) UPON COMPLETION OF WIRING.
- BRANCH CIRCUITS FOR RECEPTACLES MOUNTED ON ROOF TOP EQUIPMENT MAY BE ROUTED UP THROUGH UNIT CURB OR UNIT ITSELF IF RECOMMENDED BY ROOF TOP EQUIPMENT MANUFACTURER.
- NEW EXIT LIGHTS SHALL BE WIRED TO THE NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT SERVING THE AREA THAT EXIT LIGHT IS INSTALLED.
- OCCUPANCY SENSOR LOCATIONS SHOWN ON DRAWINGS ARE DIAGRAMMATIC ONLY. ACTUAL LOCATION SHALL BE DETERMINED AT SITE PER MANUFACTURER'S RECOMMENDATIONS AND LAYOUT. PROVIDE MINIMUM 4"-0" OF FLEX CONDUIT/WIRES SO THAT THE SENSOR CAN BE FIELD ADJUSTED FOR PROPER COVERAGE DURING FINAL TESTING. THE TRAINED FACTORY PERSONNEL SHALL PERFORM THE FINAL TIME SETTINGS AND TESTING.
- ALL EXISTING DEVICES WHICH ARE TO REMAIN AND ARE LOCATED ON NEW FURRED OUT WALLS SHALL BE PROVIDED WITH APPROPRIATE EXTENSION RINGS. REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFIC WALLS.
- ALL EXISTING DEVICES WHICH ARE NOT SHOWN ON THESE DRAWINGS OR DIRECTED BY A/E SHALL REMAIN IN PLACE AS IS.
- ALL EXISTING DEVICES WHICH ARE NOT SHOWN ON THESE DRAWINGS OR DIRECTED BY A/E SHALL BE REMOVED.
- EXISTING RECEPTACLES WHICH WOULD BE RENDERED UNACCESSIBLE, DUE TO THE PLACEMENT OF NEW CASEWORK, SHALL BE RELOCATED TO THE KICK PLATE OF THE CASEWORK, OR OTHERWISE RELOCATED SUCH THAT RECEPTACLES ARE ACCESSIBLE.
- ALL NEW DEVICES AND COVER PLATES SHALL MATCH EXISTING UNLESS OTHERWISE DIRECTED BY A/E. COVER PLATES IN KITCHEN AREAS SHALL BE STAINLESS STEEL.
- ALL REMOVED DEVICES AND NOT REPLACED IN ANY WAY EXPOSING AN EMPTY BACK BOX, THE CONTRACTOR SHALL PROVIDE A STAINLESS STEEL COVER PLATE.
- ELECTRICAL RACEWAYS AND BOXES SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS WHERE POSSIBLE, OTHERWISE RACEWAY SHALL BE EXPOSED WIREMOLD TYPE, 200, 500 OR 700 AS NECESSARY TO ACCOMMODATE WIRES.
- ELECTRICAL RACEWAYS AND BOXES SHALL BE CONCEALED IN CEILING CAVITY OR IN WALLS. EXPOSED RACEWAYS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY INDICATED AND/OR APPROVED BY A/E.
- EXACT LOCATION OF SPECIAL PURPOSE OUTLETS SHALL BE VERIFIED IN FIELD. VERIFY SPECIFIC WIRING REQUIREMENTS WITH VENDORS' DRAWINGS/INSTRUCTION, COORDINATING ELECTRICAL WORK WITH WORK OF VENDOR AND OTHER TRADES.
- IN ROOMS WHICH HAVE BEEN SUBDIVIDED, UNUSED EXISTING LIGHTING SWITCHES SHALL BE REMOVED AND BLANK COVER PLATES SHALL BE PROVIDED. PROPERLY TERMINATE ALL UNUSED CONDUCTOR(S) WITH WIRE NUT(S).
- EXISTING CEILING SPEAKERS SHALL BE REMOVED PRIOR TO DEMOLITION OF EXISTING CEILINGS. SPEAKERS SHALL BE REINSTALLED IN COMPARABLE LOCATION IN NEW CEILING.
- WALL MOUNTED SPEAKERS, FIRE ALARM DEVICES, ETC. SHALL BE RELOCATED AS NECESSARY TO ACCOMMODATE NEW CEILING HEIGHTS.
- INCLUDE FISH WIRE IN ALL NON-POWER CONDUITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY DISCONNECTING POWER AND REMOVING THE EXISTING FIXTURES FOR REUSE. ANY FIXTURE(S), ELECTRICAL DEVICES, NOT INDICATED TO BE REUSED SHALL BE PROPERLY DISPOSED OF AND/OR IN ACCORDANCE WITH THE SPECIFICATIONS.

ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	I	INSTALLED
AF	AMP FUSE	IU	INTEGRAL TO UNIT
AFC	AVAILABLE FAULT CURRENT	KW	KILOWATT
AFF	ABOVE FINISHED FLOOR	LIG	LIGHTING
ARCH	ARCHITECT	LOC	LOCATION
AFG	ABOVE FINAL GRADE	LTG	MAGNETIC STARTER
AR	AS REQUIRED	MAG	MAGNETIC STARTER
AS	AMP SWITCH	MAN	MANUAL STARTER
B	JUNCTION BOX	MC	MECHANICAL CONTRACTOR
BKR	BREAKER	MCB	MAIN CIRCUIT BREAKER
BFG	BELOW FINAL GRADE	MLO	MAIN LUGS ONLY
C	MOUNTED 6" ABOVE COUNTER	MSB	MAIN SWITCHBOARD
CAB	CABINET	MTD	MOUNTED
CB	CIRCUIT BREAKER	NU	NEAR UNIT
cd	CANDELA	NIC	NOT IN CONTRACT
CKT	CIRCUIT	O	OTHERS
CLG	CEILING	OC	ON CENTER
COMB	COMBINATION STARTER W/DISCONNECT SWITCH	ORS	OVER RIDE SWITCH
CONC	CONCRETE	OU	ON UNIT
CP	CONTROL PANEL	P	POLE
CS	COMBINATION STARTER/DISC. SWITCH	PC	PHOTOCELL
D	DISCONNECT SWITCH	PEND	PENDANT
DISC	DISCONNECT SWITCH	PLBG	PLUMBING CONTRACTOR
DN	DOWN	PNL	PANEL
DNLT	DOWN LIGHT	PB	PUSH-BUTTON
EWC	ELECTRIC WATER COOLER	R	RECEPTACLE
E.C	ELECTRICAL CONTRACTOR	REC	RECESSED
ELEV	ELEVATION	SS	SWITCH STATION
EMT	ELECTRICAL METALLIC TUBING	SURF	SURFACE
ENT	ELECTRICAL NON-METALLIC TUBING	SUSP	SUSPENDED
ER	EXISTING TO BE REMOVED	SW	SWITCH
EXP	EXPOSED	TC	TIME CLOCK
EXR	EXISTING IN NEW LOCATION	TCC	TEMPERATURE CONTROL
EX	EXISTING TO REMAIN	CONTRACTOR	
F	FURNISHED	TYP	TYPICAL
FIXT	FIXTURE	UM	UNIT MANUFACTURER
FLUOR	FLUORESCENT	VER	VERIFY
G.C.	GENERAL CONTRACTOR	VFD	VARIABLE FREQUENCY DRIVE
GFI	GROUND FAULT INTERRUPTING	W	WIRED
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHERPROOF
GYP	GYPSONUM BOARD	XFMR	TRANSFORMER
HOA	HAND-OFF-AUTO SELECTOR SWITCH		
HP	HORSEPOWER		
HVAC	HEATING, VENTILATING, AND		
HV	AIR CONDITIONING CONTRACTOR		
HW	HEAVYWALL		