URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:
http://www.cityofmadison.com/planning/documents/UDCapplication.pdf

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: September 23, 2015	☐ **Informational Presentation**
UDC Meeting Date: October 7, 2015	☐ **Initial Approval**
Combined Schedule Plan Commission Date (if applicable):	☒ **Final Approval**

1. Project Address: 4801 Waukesha St

Project Title (if any): Van Hise Elementary School and Hamilton Middle School - Addition and Renovation

AGENDA ITEM #
LEGISTAR # 39390
ALD. DIST. 11

2. This is an application for (Check all that apply to this UDC application):

☐ **New Development** ☒ **Alteration to an Existing or Previously-Approved Development**

A. Project Type:

☐ **Project in an Urban Design District*** (public hearing-$300 fee)
☐ **Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX)** ($150 fee/Minor Exterior Alterations)
☐ **Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)**
☐ **Planned Development (PD)**
  ☐ **General Development Plan (GDP)**
  ☐ **Specific Implementation Plan (SIP)**
☐ **Planned Multi-Use Site or Planned Residential Complex**

CITY OF MADISON
SEP 23 2015
9:12 a.m.
Planning & Community & Economic Development

B. Signage:

☐ **Comprehensive Design Review*** (public hearing-$300 fee) ☐ **Street Graphics Variance*** (public hearing-$300 fee)
☐ **Signage Exception(s) in an Urban Design District** (public hearing-$300 fee)

C. Other:

☒ **Please specify:** Public Building

3. Applicant, Agent & Property Owner Information:

Applicant Name: Steven Kieckhafer, Architect
Company: Plunkett Raysich Architects
Street Address: 2310 Crossroads Dr, Madison, WI
City/State: Madison, WI Zip: 53718
Telephone: (608) 240-9900 x357 Fax: ( )
Email: SKieckhafer@prarch.com

Project Contact Person:
Company:
Street Address:
City/State: Zip:
Telephone: ( ) Fax: ( )
Email:

Project Owner (if not applicant): Rick Hopke
Street Address: 4711 Pflaum Road
City/State: Madison, WI Zip: 53718
Telephone: (608) 204-7912 Fax: ( )
Email: rhopke@madison.k12.wi.us

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Al Martin (name of staff person) on Feb. 23, 2015 and June 9, 2015 (date of meeting)

B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant Steven Kieckhafer, Architect
Relationship to Property

Authorized Signature Steven K. Kieckhafer
Date September 22, 2015

PLUNKETT RAYSICH
ARCHITECTS, LLP

September 23, 2015

Mr. Al Martin, Urban Design Commission
Department of Planning & Community Development
City of Madison
215 Martin Luther King Jr. Blvd.
Madison, WI 53701

Re: Letter of Intent
Van Hise Elementary School and Hamilton Middle School
4801 Waukesha Street, Madison, WI
PRA Project No. 140248-03

Dear Mr. Martin:

The following submittal is our request for a Final Approval presentation to the Urban Design Commission on October 7th, 2015. This project had been presented to the Commission on July 29th and obtained a referral. A follow-up presentation was made on August 12th to address comments that were identified by the Commission and obtained Initial Approval.

Organizational Structure:

Owner: Madison Metropolitan School District
545 W Dayton Street
Madison, WI 53703
Contact: Rick Hopke
rhopke@madison.k12.wi.us

Architect: Plunkett Raysich Architects, LLP
2310 Crossroads Dr., Ste. 2000
Madison, WI 53718
Contact: Steve Kieckhafer
SKieckhafer@prarch.com

Site/Civil: Wyser Engineering
201 ½ E Main Street
Mt. Horeb, WI 53572
Contact: Wade Wise
wade.wyse@wyserengineering.com

Landscape: Ziegler Design
4797 Capital View Dr
Middleton, WI 53562
Contact: Steve Ziegler
steve@zdainc.com

Lighting: KJWW Engineering
802 West Broadway
Madison, WI 53713
Contact: Scott Hole
holess@kjww.com

Introduction:

The Madison Metropolitan School District developed a plan to present to the tax payers of the Madison Metropolitan School District that would update existing school facilities with the following categories; accommodate student capacity, handicap accessibility within buildings and safe/secure environment. The plan that was developed affects additions/renovations and infrastructure upgrades to16 school buildings for a total of $39 Million dollars. That plan, accepted by the School Board to take to referendum, went to vote on April 7, 2015, and was successful with 82% of approval.

Project Description:

The proposed addition is for a new library space that will combine both Elementary and Middle School libraries in to one location, which currently the library spaces are independent from each other. Current library spaces will be converted to classroom spaces, which will accommodate the overcrowding of existing classroom space and address the student capacity. Adding the classroom space will not increase the capacity of the building, but will alleviate the existing overcrowded classroom spaces. The current main entrance to the Administrative office space for the Van Hise Elementary School is located from the north, Waukesha Street, and has been in a poor location for students and parents to enter the building. Interior renovation will relocate the Administrative office to the opposite side of the corridor that will allow for a more desirable entrance and allow for security of visitors to the building.

Building Elements

An addition to the building will be constructed on the west side with exterior face brick and metal panels. The architecture will be complementary to the existing building by incorporating similar design elements and materials that are part of the existing building. Windows and entrances will be aluminum that will match existing finishes.

Site Development Statistics

Lot Area	~22.10 acres
Current building Gross Floor Area	164,645 s.f.
Proposed addition of Gross Floor Area	9,987 s.f.
New total Gross Floor Area	174,632s.f.

Vehicle Parking

On-site surface Parking	92 spaces	4 accessible

Bike Parking

Bike Storage available to students,	~49 spaces

Moped Parking

Moped parking not provided

Project Schedule:

This project is anticipated to start construction in September, 2015 with completion scheduled for early 2016.

City Planning, Urban Design (UDC), Alderperson and Neighborhoods:

The following is a list of dates of which meetings were held to discuss the proposed project

February 23, 2015- City Zoning to provide notification of District progressing to referendum
April 14-June7, 2015- Community/Parents to review project
June 9, 2015- City Zoning and UDC
June 25, 2015- DAT to present project
July 22, 2015 - Alder and Neighborhood notification
July 29, 2015 - UDC, received referral
August 12, 2015- UDC, received Initial Approval

Estimated Project Costs:

The project costs are estimated to be $3,150,000

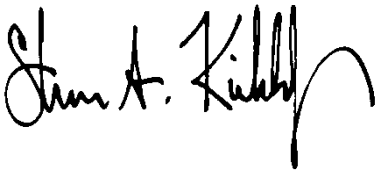
Public Subsidy:

This project will be funded totally with public bonds issued to the District through the approval of the successful referendum vote.

Please contact us with any questions or for additional information that you request.

Thank you for your time in reviewing our proposal.

Best regards,

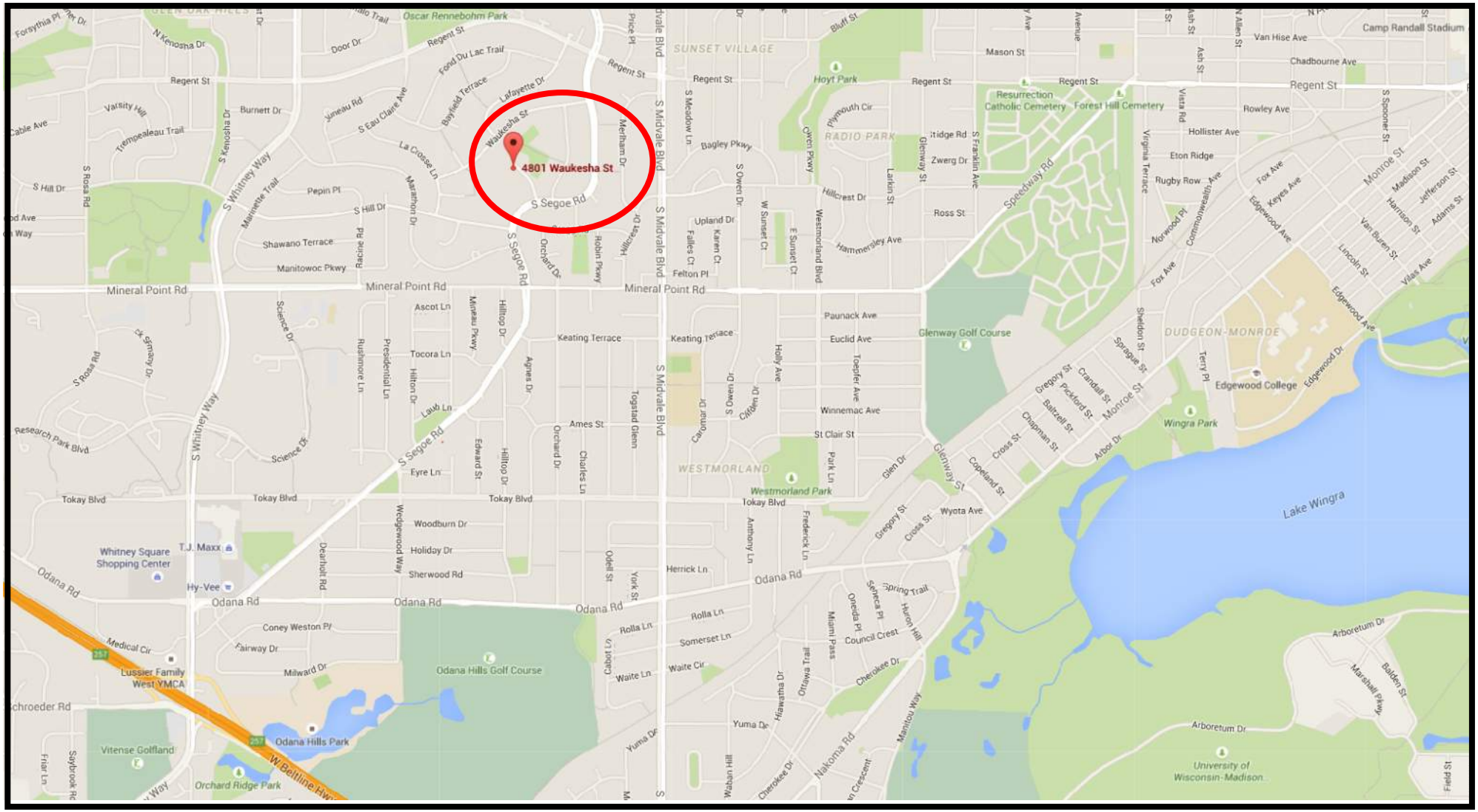


Steven A. Kieckhafer, AIA
Architect

PLUNKETT RAYSICH ARCHITECTS, LLP

MADISON METROPOLITAN SCHOOL DISTRICT
Madison, Wisconsin

Hamilton Middle & Van Hise Elementary Schools



Location Map

PLUNKETT RAYSICH ARCHITECTS, LLP

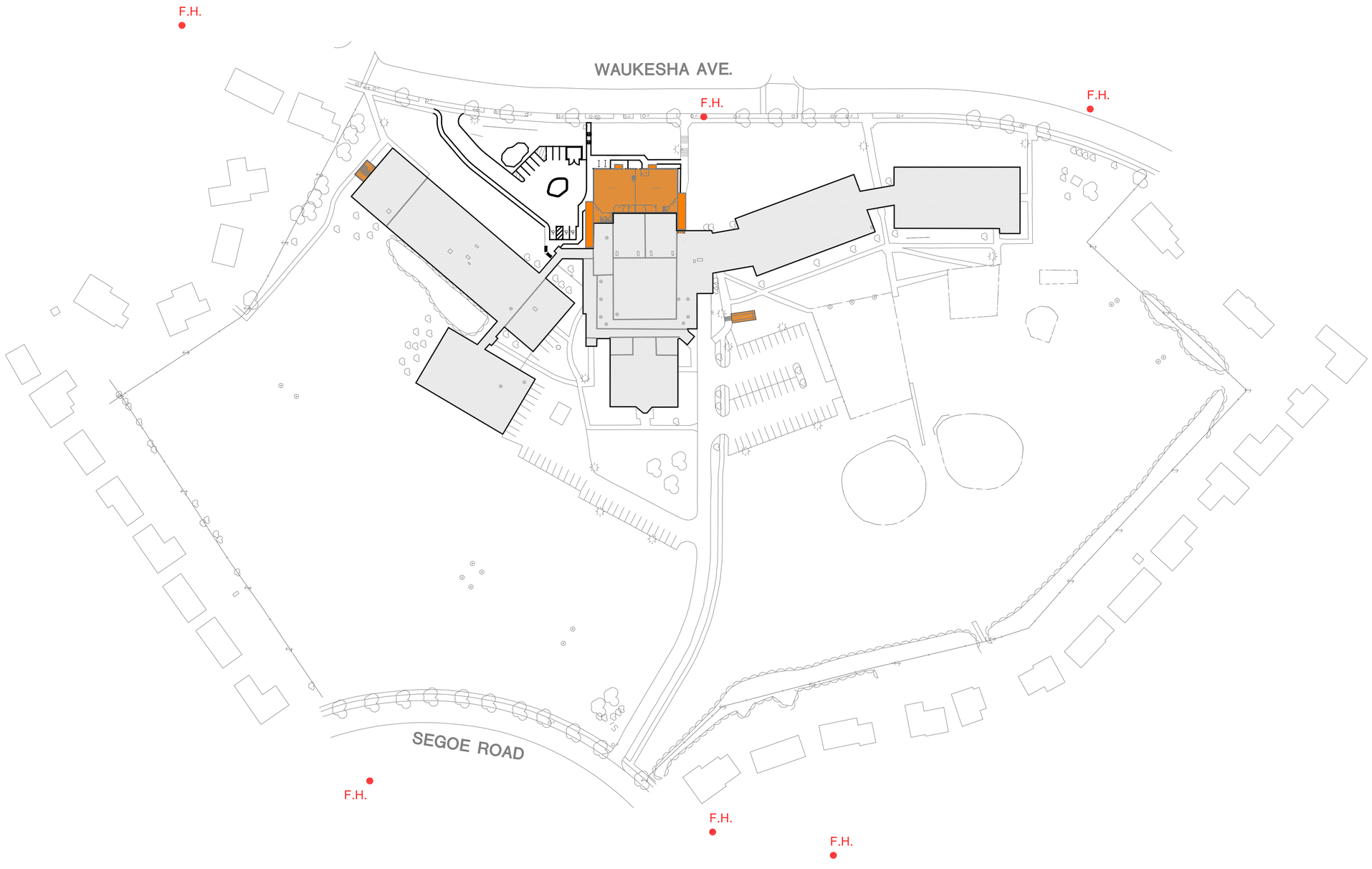
MADISON METROPOLITAN SCHOOL DISTRICT
Madison, Wisconsin

Hamilton Middle & Van Hise Elementary Schools

PLUNKETT RAYSICH ARCHITECTS, LLP

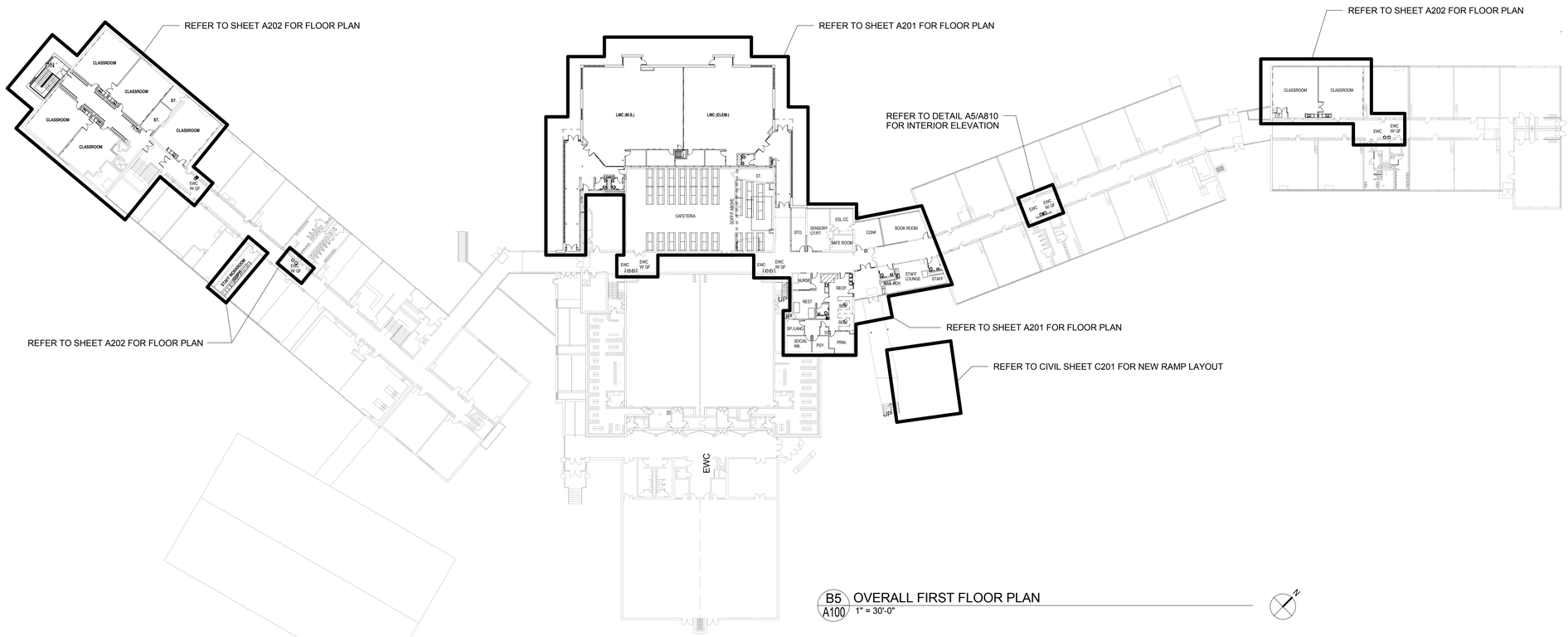
MADISON METROPOLITAN SCHOOL DISTRICT
Madison, Wisconsin

Hamilton Middle & Van Hise Elementary Schools

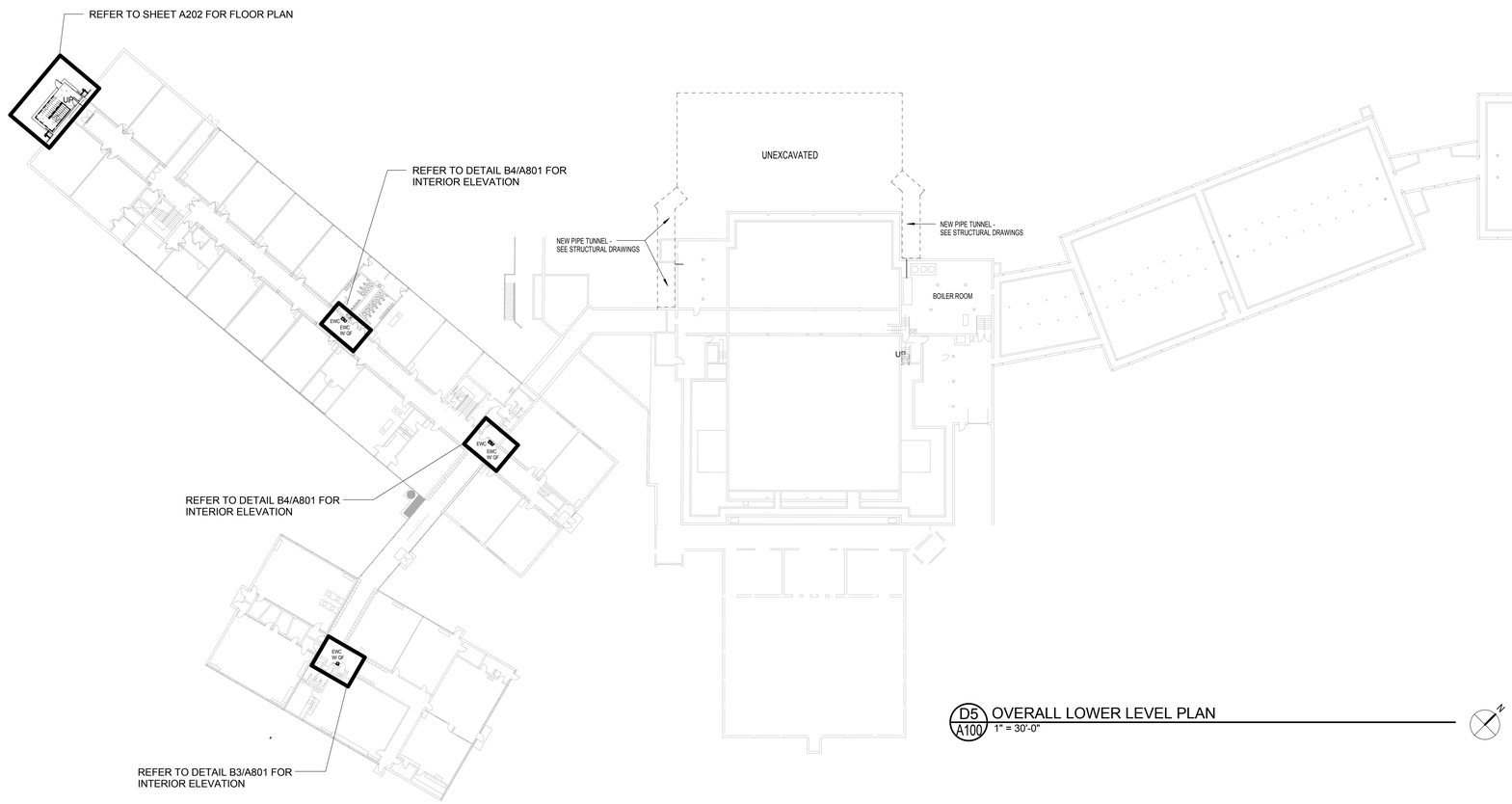


Proposed Site Conditions

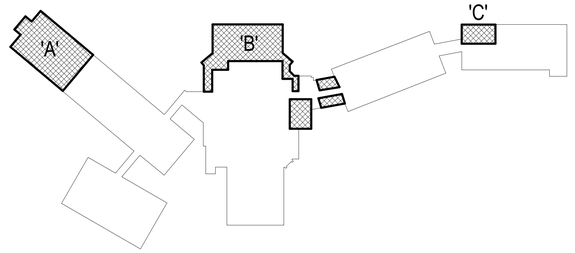
1" = 60'



B5 / A100 OVERALL FIRST FLOOR PLAN
1" = 30'-0"



D5 / A100 OVERALL LOWER LEVEL PLAN
1" = 30'-0"



FLOOR PLAN - SYMBOLS LEGEND

- NEW WALL/PARTITION
- EXISTING WALL TO REMAIN
- NEW DOOR (100.0)
- EXISTING DOOR TO REMAIN
- SECTION REFERENCE (DTL / SHT)
- DETAIL REFERENCE (DTL / SHT)
- EXTERIOR ELEVATION (DTL / SHT)
- INTERIOR ELEVATION (DTL / SHT)
- FLOOR PLAN KEYNOTE (1)
- AREA OF WORK
- ONE HOUR FIRE RESISTIVE CONSTRUCTION (1 / 2)
- TWO HOUR FIRE RESISTIVE CONSTRUCTION (1 / 2)

FLOOR PLAN - GENERAL NOTES

A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.

C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

pra PLUNKETT RAYSICH ARCHITECTS, LLP
209 south water street milwaukee, wisconsin 53204 414 359 3060
2310 crossroads drive suite 2000 madison, wisconsin 53718 608 240 9900
1613 fruitville road suite 3 sarasota, florida 34236 941 348 3618
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Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovation
4801 Waukesha St, Madison, WI 53705

Revisions	
ADD-01	09-03-15

Drawn By: AJR

Date: 08-20-2015

Job No.: 140248-03

Sheet No.: A100

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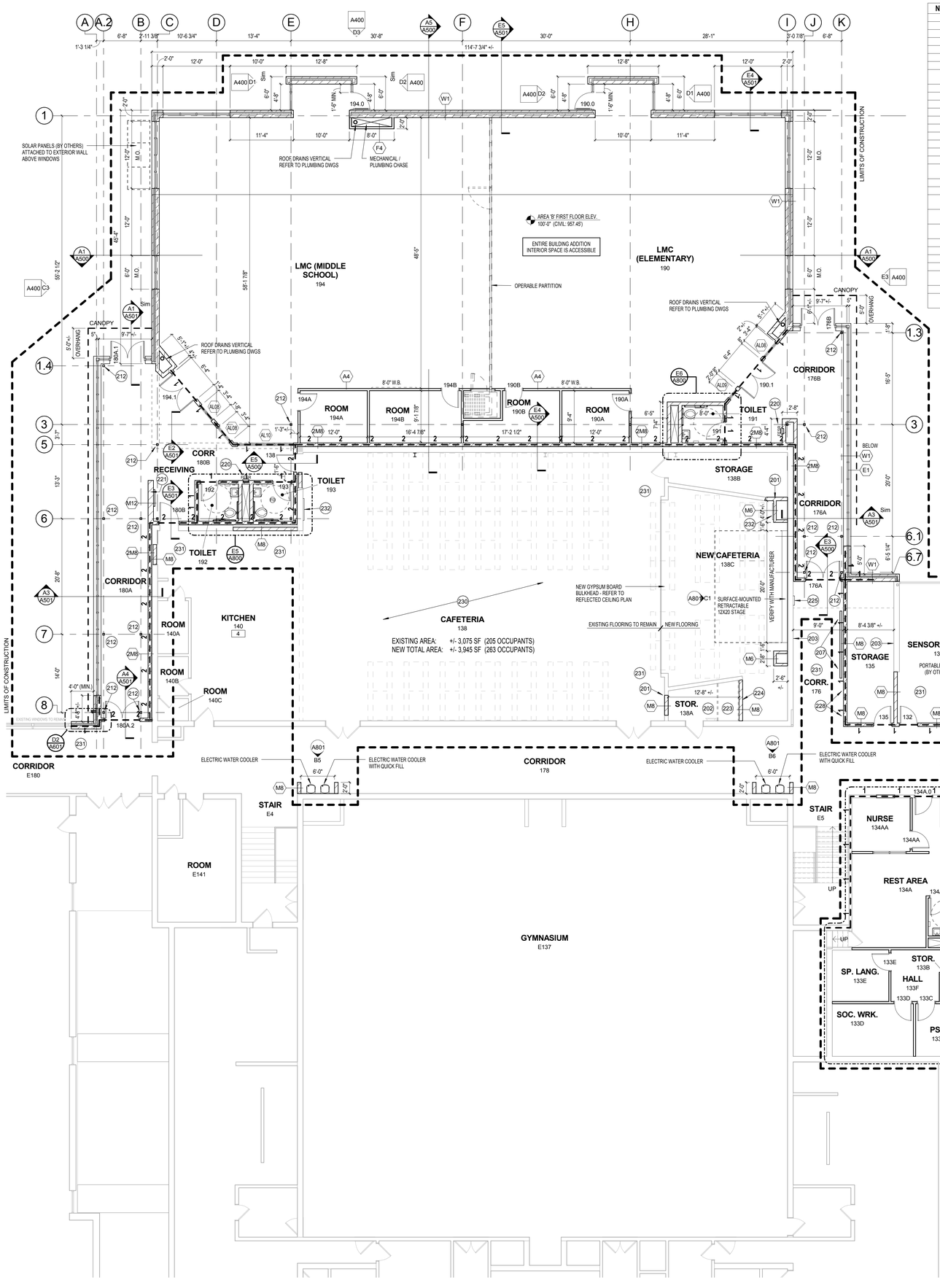

E4 / A201 FIRST FLOOR PLAN - AREA 'B'
1/8" = 1'-0"

NOTE #	FLOOR PLAN NOTE
201	PROVIDE NEW CONCRETE MASONRY UNIT FROM FLOOR TO ROOF DECK.
202	EXISTING WALL MOUNTED LADDER TO REMAIN.
203	EXISTING BRICK WALL TO REMAIN.
204	ALIGN.
205	70" TV MONITOR AND WALL MOUNT FURNISHED BY OWNER.
206	CABINET UNIT HEATER.
207	EXISTING WALL MOUNTED ART MURAL TO BE RELOCATED TO THIS LOCATION.
209	PROVIDE NEW 1-HOUR RATED INTERIOR PARTITION WHERE EXISTING WALL AND WOOD WINDOW FRAMING WAS REMOVED.
210	EXISTING STEEL COLUMN TO REMAIN.
211	ALIGN NEW PARTITION WITH CENTER OF EXISTING COLUMN.
212	EXPOSED STEEL COLUMN. SEE ROOM FINISH SCHEDULE FOR PAINT COLOR.
213	EXISTING BENCH TO REMAIN.
214	INFILL EXISTING OPENING WITH LIKE MATERIALS.
215	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 174.0.
216	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 174.1.
217	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 133.0.
218	PROVIDE DOOR BELL. WIRE LOCKDOWN TO MUSHROOM PAD AT RECEPTION DESK.
219	NEW DOOR OPERATOR.
220	NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAILS CS/A811 AND C6/A811.
221	NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
222	PATCH EXISTING WALL JAMB AND HEAD WITH LIKE MATERIALS.
223	EXISTING PLATFORM ABOVE TO REMAIN. INSTALL NEW CONCRETE MASONRY UNIT WALL TIGHT TO PLATFORM RAIL.
224	INSTALL CONCRETE MASONRY UNIT WALL TO UNDERSIDE OF ROOF DECK ABOVE. FIELD VERIFY EXISTING CONDITIONS.
225	REINSTALL EXISTING DATE STONE IN EXISTING BRICK WALL. INSTALL AT 8' ABOVE FLOOR.
226	KNOX BOX.
227	PROVIDE NEW CABINETRY.
228	ELECTRICAL PANELS - REFER TO ELECTRICAL DRAWINGS.
229	SIDEWALK AREA. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
230	ALTERNATE BID NO. 1 - REMODEL EXISTING CAFETERIA 138. REFER TO SPEC SECTION '01 23 00 - ALTERNATES'.
231	PATCH EXISTING WALL AND FLOOR. REFER TO ROOM FINISH SCHEDULE
232	LOCATION REQUIRES PLYWOOD BACKGROUND FOR MOUNTING ELECTRICAL EQUIPMENT.

KEYNOTE LEGEND - EXTERIOR WALL TYPES	
TAG	EXTERIOR WALL DESCRIPTION
W1	EXTERIOR WALL: MASONRY CAVITY WALL CONSISTING OF 4" FACE BRICK, 2 1/8" AIR SPACE, 3" EXTERIOR WALL INSULATION, AIR AND VAPOR BARRIER MEMBRANE ON 8" CONCRETE MASONRY UNIT BACK-UP WALL. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AT 16" EACH WAY. PROVIDE HORIZONTAL MASONRY JOINT REINFORCING AT 16" OC. PROVIDE CAVITY DRAINAGE MATERIAL, FLASHING, MASONRY EXPANSION AND CONTROL JOINTS. PROVIDE CAVITY WEEPS/VENTS AT 24" OC. COMPARTMENTALIZE THE CAVITY AND PROVIDE CAVITY WEEPS/VENTS AT TOP/BOTTOM OF CAVITY. REFER TO DETAIL E4/A600.
W9	EXTERIOR WALL: VERTICAL LAP SEAM METAL WALL PANEL ON METAL FRAMING, VAPOR-PERMABLE MEMBRANE AIR BARRIER ON NAIL BASE INSULATION (CONSISTING OF 3/4" FIRE-RETARDANT PLYWOOD LAMINATED TO ONE FACE OF 3" THERMAL INSULATION), AIR AND VAPOR BARRIER MEMBRANE ON 8" CONCRETE MASONRY UNIT BACK-UP WALL.
W9A	EXTERIOR WALL: VERTICAL LAP SEAM METAL WALL PANEL ON METAL FRAMING, VAPOR-PERMABLE MEMBRANE AIR BARRIER ON NAIL BASE INSULATION (CONSISTING OF 3/4" FIRE-RETARDANT PLYWOOD LAMINATED TO ONE FACE OF 3" THERMAL INSULATION), AIR AND VAPOR BARRIER MEMBRANE ON 5/8" GLASSMAT GYPSUM WALL SHEATHING ON 6" GALVANIZED COLD FORMED STEEL STUDS AT 16" OC AND (1) LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE.
WB3	EXTERIOR WALL (BELOW GRADE): REINFORCED CAST-IN-PLACE CONCRETE FOUNDATION WALL. PROVIDE 2" RIGID FOUNDATION INSULATION, EXTEND 48" VERTICALLY ON WALL AND 24" HORIZONTALLY BELOW FLOOR SLAB.

KEYNOTE LEGEND - INTERIOR PARTITION TYPES	
TAG	INTERIOR PARTITION DESCRIPTION
2M8	INTERIOR MASONRY PARTITION: 8" CONCRETE BLOCK. PROVIDE 2 HR RATED UL #U465 DESIGN WHERE 2 HR CONSTRUCTION IS INDICATED ON PLANS.
303	ALIGN NEW BULKHEAD WITH NEW PARTITIONS.
A4	INTERIOR STEEL STUD PARTITION: 3-5/8" STEEL STUDS @ 16" OC WITH 3" SOUND ATTENUATION INSULATION AND ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.
A6	INTERIOR STEEL STUD PARTITION: 6" STEEL STUDS @ 16" OC WITH FULL THICKNESS SOUND ATTENUATION INSULATION AND ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.
F4	INTERIOR FURRING (PARTITION): 3-5/8" STEEL STUDS @ 16" OC WITH ONE LAYER 5/8" GYPSUM BOARD.
M6	INTERIOR MASONRY PARTITION: 6" CONCRETE BLOCK. BLOCK TO EXTEND UNDERSIDE OF EXISTING DUCTWORK ABOVE. FIELD VERIFY.
M8	INTERIOR MASONRY PARTITION: 8" CONCRETE BLOCK.
M12	INTERIOR MASONRY PARTITION: 12" CONCRETE BLOCK.
P4	INTERIOR PARTITION: 3-5/8" STEEL STUDS @ 16" OC WITH ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.

FLOOR PLAN - SYMBOLS LEGEND

NEW WALL/PARTITION
EXISTING WALL TO REMAIN
NEW DOOR
EXISTING DOOR TO REMAIN
SECTION REFERENCE
DETAIL REFERENCE
EXTERIOR ELEVATION
WINDOW TYPE
INTERIOR ELEVATION
WALL/PARTITION TYPE
FLOOR PLAN KEYNOTE
FLOOR DRAIN - PITCH FLOOR TO DRAIN
CONSTRUCTION LIMITS
ONE HOUR FIRE RESISTIVE CONSTRUCTION
TWO HOUR FIRE RESISTIVE CONSTRUCTION

FLOOR PLAN - GENERAL NOTES

A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.

C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

D. REFER TO SHEET A910 FOR ROOM FINISH SCHEDULE AND NOTES.

E. REFER TO SHEET A900 FOR DOOR SCHEDULES, DOOR TYPES, AND NOTES.

F. ALL NEW ELECTRICAL WATER COOLERS (EWC) SHOWN PART OF ALTERNATE BID NO. 01. REFER TO SHEET A100 FOR ALL LOCATIONS.

G. FLOOR ELEVATIONS FOR AREA 'A', AREA 'B', AREA 'C' ARE NOT EQUAL. FIELD VERIFY EXISTING CONDITIONS.

GYPSUM BOARD PARTITIONS - GENERAL NOTES

ALL GYPSUM BOARD PARTITIONS SHALL BE (A4) UNLESS OTHERWISE NOTED ON FLOOR PLAN.

GYPSUM BOARD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED PARTITION TO FACE OF FINISHED PARTITION (NOMINAL).

REFER TO GYPSUM BOARD SPECIFICATION FOR LOCATION AND TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.

PROVIDE TYPE 'X' FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.

SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.

EXTEND ALL GYPSUM BOARD PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE AT METAL DECK CONSTRUCTION ABOVE PROVIDE SLIP JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF METAL DECK / STRUCTURAL STEEL MEMBER ABOVE. REFER TO DETAIL E2/A811 AND E3/811.

ON ALL GYPSUM WALL BOARD MOUNTED ON WALLS PROVIDE LEVEL 5 (ABUSIVE-RESISTANT GYPSUM BOARD): EMBED TAPE AND APPLY SEPERATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE WHERE INDICATED.

MASONRY PARTITIONS - GENERAL NOTES

MASONRY PARTITIONS INDICATED WITH THE FOLLOWING HATCH PATTERN:

ALL MASONRY PARTITIONS SHALL BE 8" CONCRETE BLOCK UNLESS OTHERWISE NOTED OR DIMENSIONED. REFER TO FLOOR PLAN FOR PARTITION THICKNESS.

PROVIDE UL RATED CONCRETE BLOCK AT ALL FIRE RATED PARTITIONS.

SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL RATED PARTITIONS.

EXTEND CONCRETE BLOCK PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE (OR PRECAST PLANK ABOVE IF APPLICABLE). REFER TO DETAIL D1/A811 AND D2/A811. PROVIDE HORIZONTAL MASONRY JOINT REINFORCEMENT AT 16" OC VERTICALLY. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT REQUIREMENTS.

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Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovation
4801 Waukesha St, Madison, WI 53705

Revisions	
ADD-01	09-03-15

Drawn By: AJR
Date: 08-20-2015
Job No.: 140248-03
Sheet No.: A201

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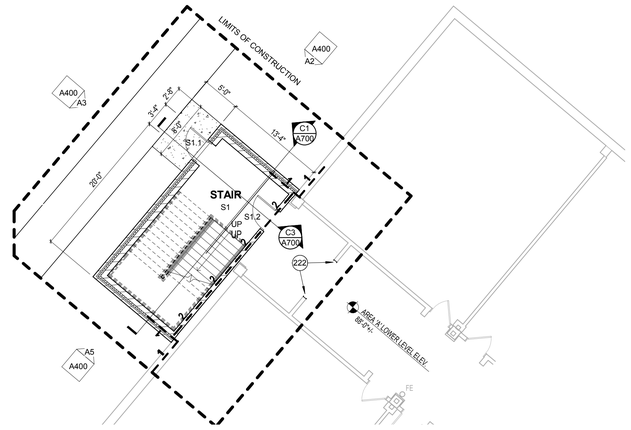
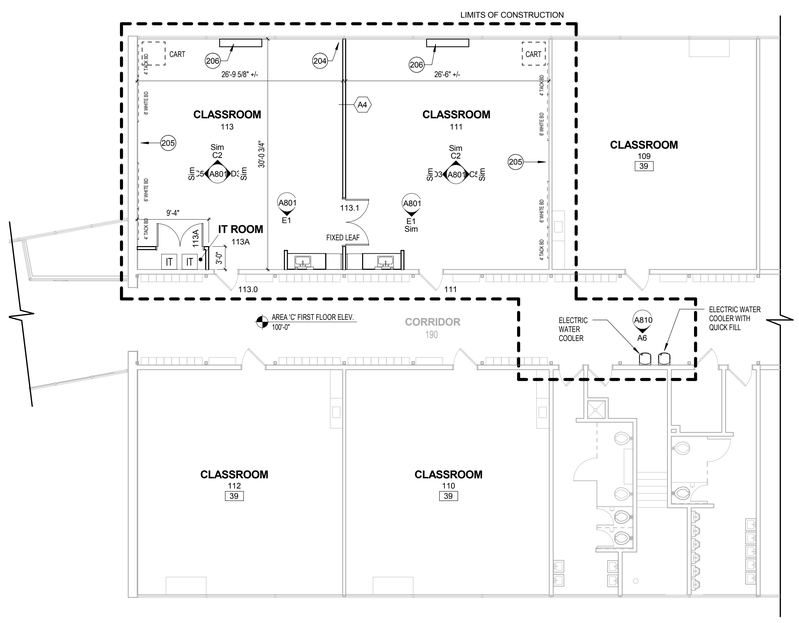
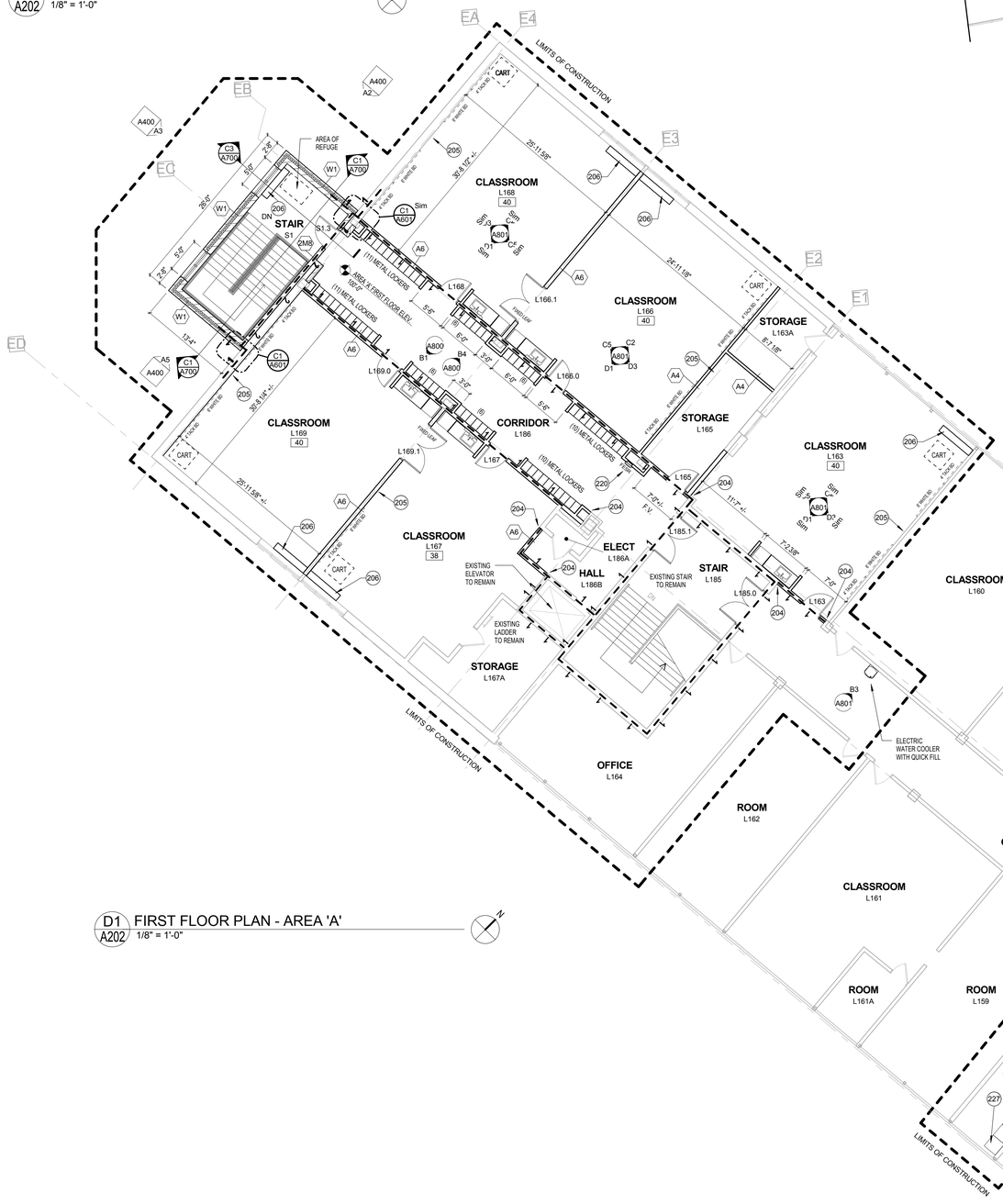


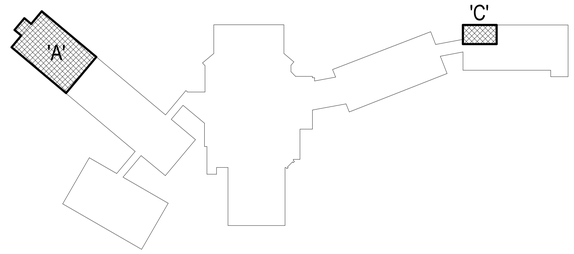
A1 LOWER LEVEL FLOOR PLAN - AREA 'A'
A202 1/8" = 1'-0"



B4 FIRST FLOOR PLAN - AREA 'C'
A202 1/8" = 1'-0"



D1 FIRST FLOOR PLAN - AREA 'A'
A202 1/8" = 1'-0"



FLOOR PLAN - SYMBOLS LEGEND

- NEW WALL/PARTITION
- EXISTING WALL TO REMAIN
- NEW DOOR (100.0)
- EXISTING DOOR TO REMAIN
- SECTION REFERENCE (DTL / SHT)
- DETAIL REFERENCE (DTL / SHT)
- EXTERIOR ELEVATION (DTL / SHT)
- WINDOW TYPE (1i)
- INTERIOR ELEVATION (DTL / SHT)
- WALL/PARTITION TYPE (W1)
- FLOOR PLAN KEYNOTE (1)
- FLOOR DRAIN - PITCH FLOOR TO DRAIN (FD)
- CONSTRUCTION LIMITS
- 1 1 ONE HOUR FIRE RESISTIVE CONSTRUCTION
- 2 2 TWO HOUR FIRE RESISTIVE CONSTRUCTION

FLOOR PLAN - GENERAL NOTES

A. DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED WALL TO FACE OF FINISHED WALL (NOMINAL).

B. VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE. PORTIONS OF EXISTING CONSTRUCTION MAY HAVE BEEN REMOVED BY OWNER.

C. MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL SPACES IN THE BUILDING NOT AFFECTED BY THIS WORK. COORDINATE WITH OWNER ANY DISRUPTION IN SERVICES REQUIRED TO PERFORM WORK OR TO MODIFY EXISTING PIPING, DUCTWORK OR ANY ASSOCIATED EQUIPMENT.

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G. FLOOR ELEVATIONS FOR AREA 'A', AREA 'B', AREA 'C' ARE NOT EQUAL. FIELD VERIFY EXISTING CONDITIONS.

NOTE #	FLOOR PLAN NOTE
201	PROVIDE NEW CONCRETE MASONRY UNIT FROM FLOOR TO ROOF DECK.
202	EXISTING WALL MOUNTED LADDER TO REMAIN.
203	EXISTING BRICK WALL TO REMAIN.
204	ALIGN.
205	70" TV MONITOR AND WALL MOUNT FURNISHED BY OWNER.
206	CABINET UNIT HEATER.
207	EXISTING WALL MOUNTED ART MURAL TO BE RELOCATED TO THIS LOCATION.
209	PROVIDE NEW 1-HOUR RATED INTERIOR PARTITION WHERE EXISTING WALL AND WOOD WINDOW FRAMING WAS REMOVED.
210	EXISTING STEEL COLUMN TO REMAIN.
211	ALIGN NEW PARTITION WITH CENTER OF EXISTING COLUMN.
212	EXPOSED STEEL COLUMN. SEE ROOM FINISH SCHEDULE FOR PAINT COLOR.
213	EXISTING BENCH TO REMAIN.
214	INFILL EXISTING OPENING WITH LIKE MATERIALS.
215	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 174.0.
216	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 174.1.
217	PROVIDE WALL MOUNTED PUSH PADDLE FOR DOOR 133.0.
218	PROVIDE DOOR BELL. WIRE LOCKDOWN TO MUSHROOM PAD AT RECEPTION DESK.
219	NEW DOOR OPERATOR.
220	NEW SEMI-RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAILS C5/A811 AND C8/A811.
221	NEW ELECTRICAL PANEL. REFER TO ELECTRICAL DRAWINGS.
222	PATCH EXISTING WALL JAMB AND HEAD WITH LIKE MATERIALS.
223	EXISTING PLATFORM ABOVE TO REMAIN. INSTALL NEW CONCRETE MASONRY UNIT WALL TIGHT TO PLATFORM RAIL.
224	INSTALL CONCRETE MASONRY UNIT WALL TO UNDERSIDE OF ROOF DECK ABOVE. FIELD VERIFY EXISTING CONDITIONS.
225	REINSTALL EXISTING DATE STONE IN EXISTING BRICK WALL. INSTALL AT 8" ABOVE FLOOR.
226	KNOX BOX.
227	PROVIDE NEW CABINETRY.
228	ELECTRICAL PANELS - REFER TO ELECTRICAL DRAWINGS.
229	SIDEWALK AREA. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
230	ALTERNATE BID NO. 1 - REMODEL EXISTING CAFETERIA 138. REFER TO SPEC SECTION '01 23.00 - ALTERNATES'
231	PATCH EXISTING WALL AND FLOOR. REFER TO ROOM FINISH SCHEDULE
232	LOCATION REQUIRES PLYWOOD BACKGROUND FOR MOUNTING ELECTRICAL EQUIPMENT.

KEYNOTE LEGEND - EXTERIOR WALL TYPES	
TAG	EXTERIOR WALL DESCRIPTION
W1	EXTERIOR WALL: MASONRY CAVITY WALL CONSISTING OF 4" FACE BRICK, 2 1/8" AIR SPACE, 3" EXTERIOR WALL INSULATION, AIR AND VAPOR BARRIER MEMBRANE ON 8" CONCRETE MASONRY UNIT BACK-UP WALL. PROVIDE ADJUSTABLE MASONRY VENEER ANCHORS AT 16" EACH WAY. PROVIDE HORIZONTAL MASONRY JOINT REINFORCING AT 16" OC. PROVIDE CAVITY DRAINAGE MATERIAL, FLASHING, MASONRY EXPANSION AND CONTROL JOINTS. PROVIDE CAVITY WEEPS/VENTS AT 24" OC. COMPARTMENTALIZE THE CAVITY AND PROVIDE CAVITY WEEPS/VENTS AT TOP/BOTTOM OF CAVITY. REFER TO DETAIL E4/A6i00.
W9	EXTERIOR WALL: VERTICAL LAP SEAM METAL WALL PANEL ON METAL FRAMING, VAPOR-PERMABLE MEMBRANE AIR BARRIER ON NAIL BASE INSULATION (CONSISTING OF 3/4" FIRE-RETARDANT PLYWOOD LAMINATED TO ONE FACE OF 3" THERMAL INSULATION), AIR AND VAPOR BARRIER MEMBRANE ON 8" CONCRETE MASONRY UNIT BACK-UP WALL.
W9A	EXTERIOR WALL: VERTICAL LAP SEAM METAL WALL PANEL ON METAL FRAMING, VAPOR-PERMABLE MEMBRANE AIR BARRIER ON NAIL BASE INSULATION (CONSISTING OF 3/4" FIRE-RETARDANT PLYWOOD LAMINATED TO ONE FACE OF 3" THERMAL INSULATION), AIR AND VAPOR BARRIER MEMBRANE ON 5/8" GLASSMAT GYPSUM WALL SHEATHING ON 6" GALVANIZED COLD FORMED STEEL STUDS AT 16" OC AND (1) LAYER 5/8" GYPSUM BOARD AT INTERIOR FACE.
WB3	EXTERIOR WALL (BELOW GRADE): REINFORCED CAST-IN-PLACE CONCRETE FOUNDATION WALL. PROVIDE 2" RIGID FOUNDATION INSULATION, EXTEND 48" VERTICALLY ON WALL AND 24" HORIZONTALLY BELOW FLOOR SLAB.

KEYNOTE LEGEND - INTERIOR PARTITION TYPES	
TAG	INTERIOR PARTITION DESCRIPTION
2MB	INTERIOR MASONRY PARTITION: 8" CONCRETE BLOCK. PROVIDE 2 HR RATED UL #U465 DESIGN WHERE 2 HR CONSTRUCTION IS INDICATED ON PLANS.
303	ALIGN NEW BULKHEAD WITH NEW PARTITIONS.
A4	INTERIOR STEEL STUD PARTITION: 3-5/8" STEEL STUDS @ 16" OC WITH 3" SOUND ATTENUATION INSULATION AND ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.
A6	INTERIOR STEEL STUD PARTITION: 6" STEEL STUDS @ 16" OC WITH FULL THICKNESS SOUND ATTENUATION INSULATION AND ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.
F4	INTERIOR FURRING (PARTITION): 3-5/8" STEEL STUDS @ 16" OC WITH ONE LAYER 5/8" GYPSUM BOARD.
M6	INTERIOR MASONRY PARTITION: 6" CONCRETE BLOCK. BLOCK TO EXTEND UNDERSIDE OF EXISTING DUCTWORK ABOVE. FIELD VERIFY.
M8	INTERIOR MASONRY PARTITION: 8" CONCRETE BLOCK.
M12	INTERIOR MASONRY PARTITION: 12" CONCRETE BLOCK.
P4	INTERIOR PARTITION: 3-5/8" STEEL STUDS @ 16" OC WITH ONE LAYER 5/8" GYPSUM BOARD @ EACH FACE. PROVIDE 1 HR RATED UL #U465 DESIGN WHERE 1 HR CONSTRUCTION IS INDICATED ON PLANS.

GYPSUM BOARD PARTITIONS - GENERAL NOTES

ALL GYPSUM BOARD PARTITIONS SHALL BE (A4) UNLESS OTHERWISE NOTED ON FLOOR PLAN.

GYPSUM BOARD PARTITION DIMENSIONS ON FLOOR PLAN ARE BASED ON FACE OF FINISHED PARTITION TO FACE OF FINISHED PARTITION (NOMINAL).

REFER TO GYPSUM BOARD SPECIFICATION FOR LOCATION AND TYPE(S) OF GYPSUM BOARD MATERIAL REQUIRED.

PROVIDE TYPE 'X' FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS.

SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL FIRE RATED PARTITIONS.

EXTEND ALL GYPSUM BOARD PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE. AT METAL DECK CONSTRUCTION ABOVE PROVIDE SLIP JOINT BETWEEN TOP OF PARTITION AND UNDERSIDE OF METAL DECK / STRUCTURAL STEEL MEMBER ABOVE. REFER TO DETAIL E2/A811 AND E3/811.

ON ALL GYPSUM WALL BOARD MOUNTED ON WALLS PROVIDE LEVEL 5 (ABUSIVE-RESISTANT GYPSUM BOARD): EMBED TAPE AND APPLY SEPERATE FIRST, FILL, AND FINISH COATS OF JOINT COMPOUND TO TAPE, FASTENERS, AND TRIM FLANGES, AND APPLY SKIM COAT OF JOINT COMPOUND OVER ENTIRE SURFACE WHERE INDICATED.

MASONRY PARTITIONS - GENERAL NOTES

MASONRY PARTITIONS INDICATED WITH THE FOLLOWING HATCH PATTERN:

ALL MASONRY PARTITIONS SHALL BE 8" CONCRETE BLOCK UNLESS OTHERWISE NOTED OR DIMENSIONED. REFER TO FLOOR PLAN FOR PARTITION THICKNESS.

PROVIDE UL RATED CONCRETE BLOCK AT ALL FIRE RATED PARTITIONS.

SEAL ALL WALL PENETRATIONS AT PERIMETER AND FIRESTOP ALL RATED PARTITIONS.

EXTEND CONCRETE BLOCK PARTITIONS FULL HEIGHT TO UNDERSIDE OF STEEL DECK ABOVE (OR PRECAST PLANK ABOVE IF APPLICABLE). REFER TO DETAIL D1/A811 AND D2/A811. PROVIDE HORIZONTAL MASONRY JOINT REINFORCEMENT AT 16" OC VERTICALLY. REFER TO STRUCTURAL DRAWINGS FOR VERTICAL REINFORCEMENT REQUIREMENTS.

pra PLUNKETT RAYSICH ARCHITECTS, LLP
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Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovations
4801 Waukesha St, Madison, WI 53705

Revisions	
ADD-01	09-03-15

Drawn By: AJR

Date: 08-20-2015

Job No.: 140248-03

Sheet No.: A202

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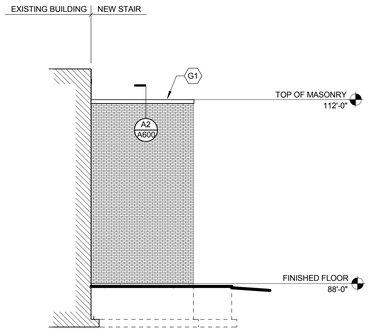
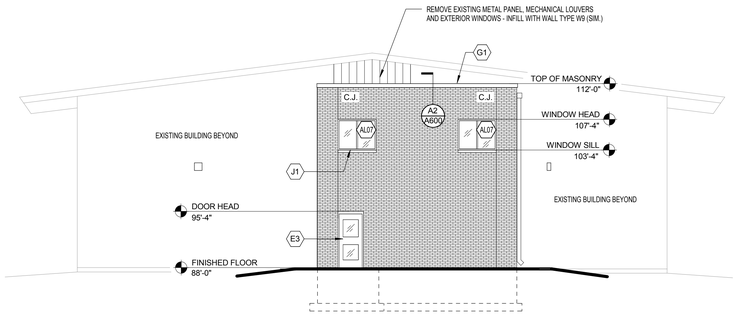
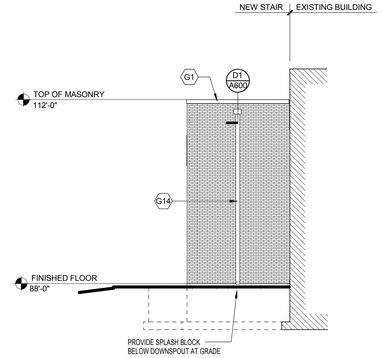


A2 A400 NORTH - NEW STAIR ADDITION
1/8" = 1'-0"



A3 A400 EXTERIOR ELEVATION - WEST - NEW STAIR ADDITION
1/8" = 1'-0"



A5 A400 SOUTH - NEW STAIR ADDITION
1/8" = 1'-0"

EXTERIOR FINISH PATTERNS

VERTICAL LAP SEAM METAL WALL PANEL

BRICK

EXTERIOR ELEVATIONS - GENERAL NOTES

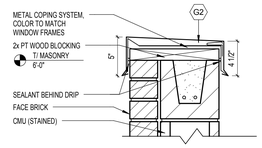
A. PAINT ALL EXPOSED STEEL LINTELS TO MATCH ADJACENT MASONRY COLOR

B. REFER TO SHEET A600 FOR WINDOW FRAME ELEVATIONS

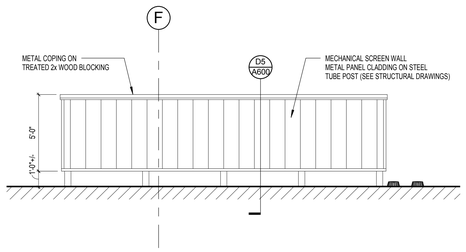
C. SEALANT COLORS TO MATCH ADJACENT FINISHED SURFACES.

KEYNOTE LEGEND - CONSTRUCTION TYPES

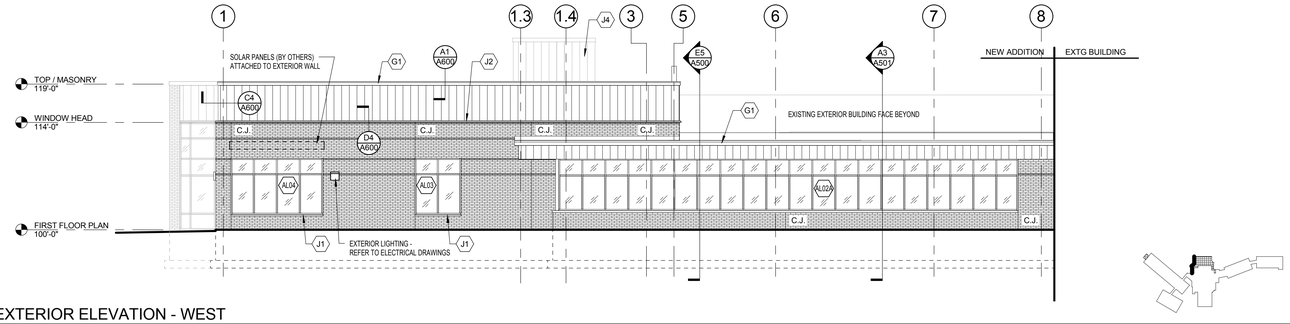
TAG	CONSTRUCTION DESCRIPTION
C1	LAY-IN CEILING PANELS IN EXPOSED GRID SYSTEM SUSPENDED FROM STRUCTURE ABOVE.
C14	EXTERIOR SOFFIT: METAL SOFFIT PANEL SYSTEM.
E1	ALUMINUM WINDOW SYSTEM WITH INSULATING GLASS.
E2	ALUMINUM STOREFRONT SYSTEM ALUMINUM FRAME AND ALUMINUM DOOR WITH INSULATING GLASS.
E3	ALUMINUM STOREFRONT SYSTEM WITH ALUMINUM FRAME AND FRP DOOR WITH INSULATING GLASS.
G1	METAL FASCIA SYSTEM: METAL GRAVEL STOP ON TREATED 2x WOOD BLOCKING
G2	METAL COPING SYSTEM: METAL COPING ON TREATED 2x WOOD BLOCKING
G4	METAL SCUPPER.
G9	METAL COUNTERFLASHING: TWO PIECE "SNAP-IN" METAL COUNTERFLASHING WITH SURFACE MOUNTED RECEIVER WITH MECHANICAL FASTENERS @ 12" OC WITH NEOPRENE WASHERS @ EXPOSED FASTENER HEADS.
G14	METAL DOWNSPOUT.
J1	PRECAST CONCRETE SILL. REFER TO DETAIL A4/A501 FOR PROFILE.
J2	METAL FLASHING TRANSITION. REFER TO DETAIL D4/A600 FOR PROFILE.
J4	MECHANICAL SCREEN. REFER TO DETAIL D5/A600 FOR SECTION. REFER TO C1/A400 FOR ELEVATION.
R1	SINGLE PLY ROOFING SYSTEM: LOOSELY LAID AND BALLASTED EPDM MEMBRANE WITH BALLAST. PROTECTIVE BOARD, ON POLYISOCYANURATE BOARD INSULATION, ON VAPOR RETARDER, ON 5/8" THERMAL BARRIER, ON STRUCTURAL METAL ROOF DECK. SEE ROOF PLAN FOR INSULATION THICKNESSES.
S1	4" REINFORCED CONCRETE SLAB ON VAPOR RETARDER ON 4" DRAINAGE FILL. MECHANICALLY EDGE TOP OF CONCRETE AND APPLY WATER VAPOR EMISSION CONTROL SYSTEM.
S2	3" REINFORCED CONCRETE TOPPING ON METAL DECK. REFER TO STRUCTURAL DRAWINGS.



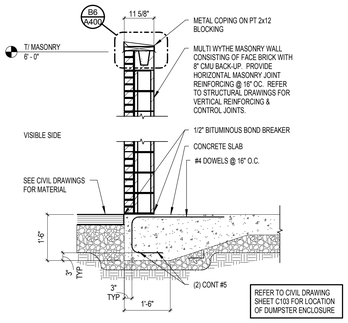
B6 A400 A370MTLCOP - METAL COPING
1 1/2" = 1'-0"



C1 A400 MECHANICAL SCREEN WALL ELEVATION
1/4" = 1'-0"

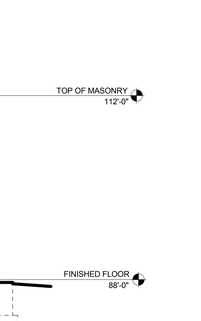


C3 A400 EXTERIOR ELEVATION - WEST
1/8" = 1'-0"

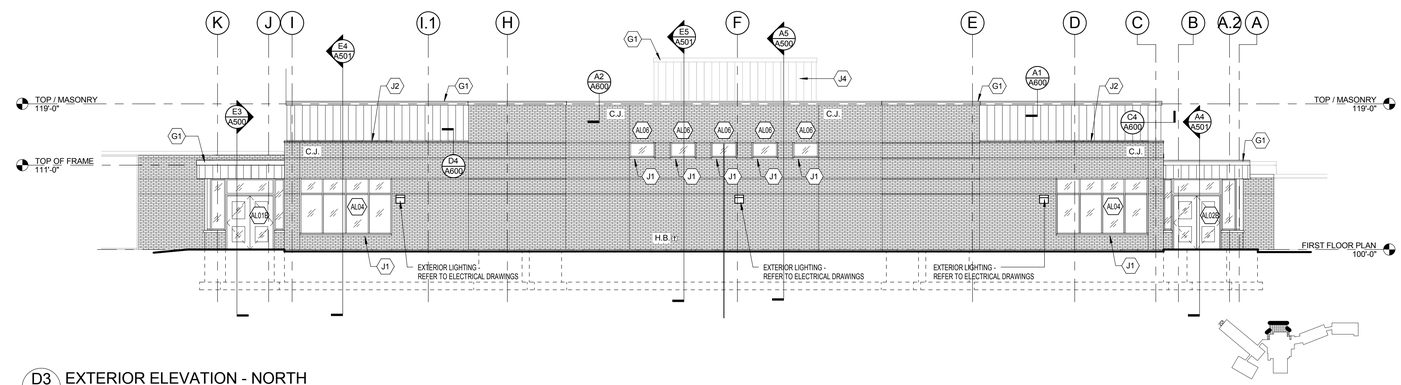


C6 A400 DUMPSTER ENCLOSURE WALL SECTION
1/2" = 1'-0"

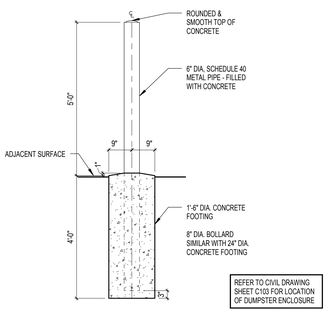
D1 A400 EXTERIOR ELEV. - EAST
1/8" = 1'-0"



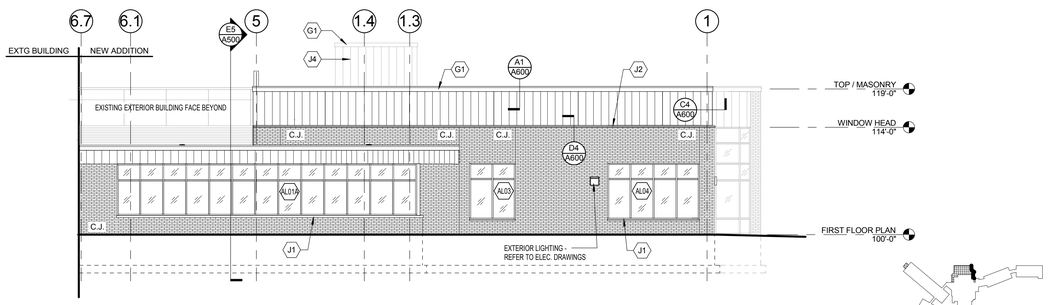
D2 A400 EXTERIOR ELEV. - WEST
1/8" = 1'-0"



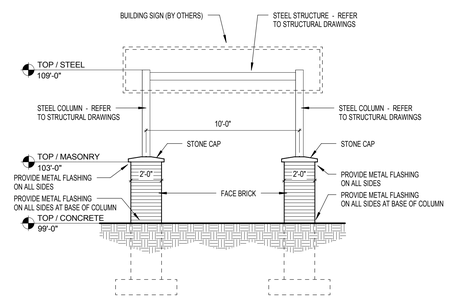
D3 A400 EXTERIOR ELEVATION - NORTH
1/8" = 1'-0"



D6 A400 CONCRETE FILLED PIPE BOLLARD
1/2" = 1'-0"



E3 A400 EXTERIOR ELEVATION - EAST
1/8" = 1'-0"



E6 A400 ENTRANCE SIGN STRUCTURE
1/4" = 1'-0"

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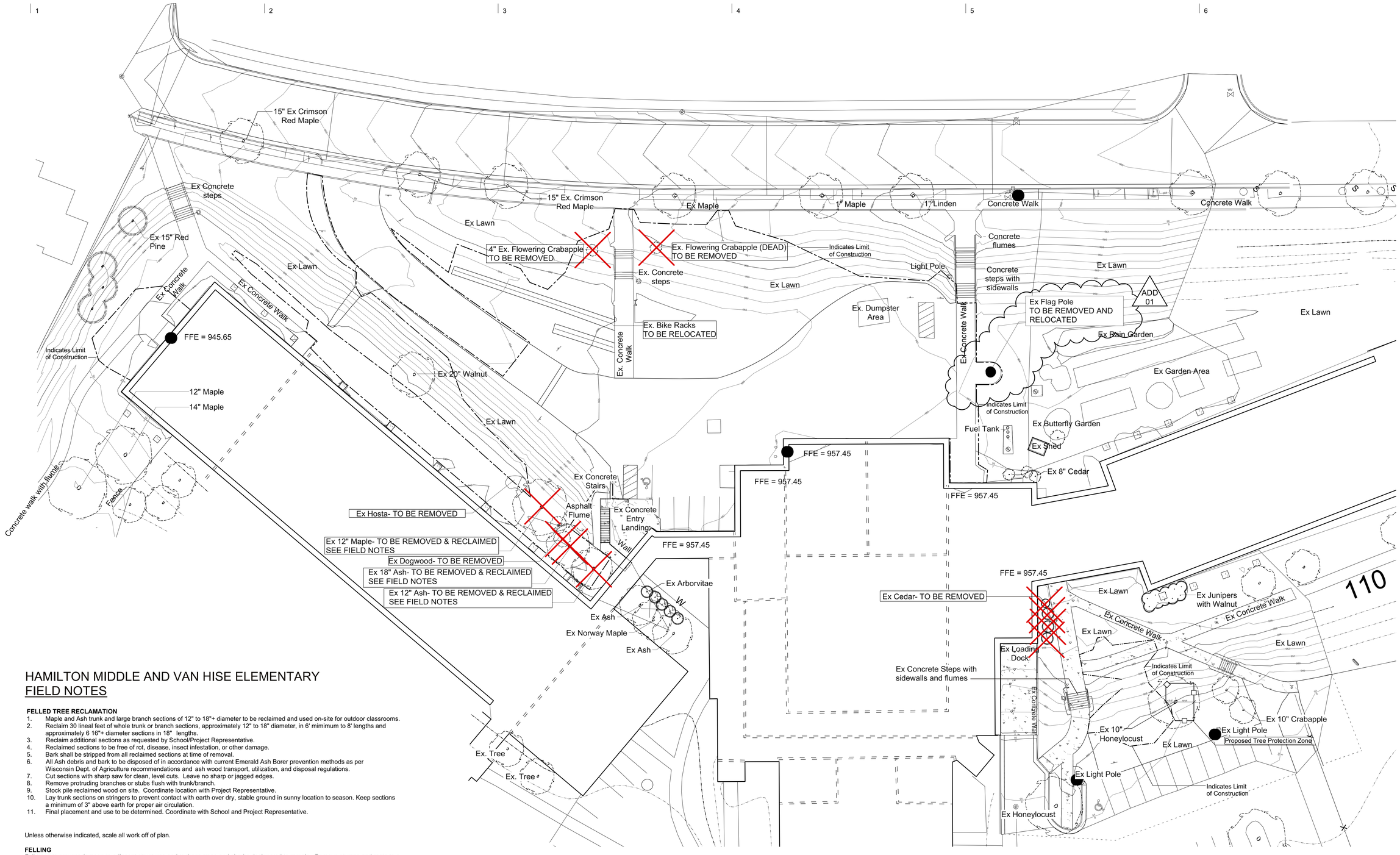
Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovation
4801 Waukesha St, Madison, WI 53705

Revisions	
ADD-01	09-03-15

Drawn By: AJR
Date: 08-20-2015
Job No.: 140248-03
Sheet No.: A400



HAMILTON MIDDLE AND VAN HISE ELEMENTARY
FIELD NOTES

FELLED TREE RECLAMATION

1. Maple and Ash trunk and large branch sections of 12" to 18"+ diameter to be reclaimed and used on-site for outdoor classrooms.
2. Reclaim 30 lineal feet of whole trunk or branch sections, approximately 12" to 18" diameter, in 6' mimimum to 8' lengths and approximately 6 16"+ diameter sections in 18" lengths.
3. Reclaim additional sections as requested by School/Project Representative.
4. Reclaimed sections to be free of rot, disease, insect infestation, or other damage.
5. Bark shall be stripped from all reclaimed sections at time of removal.
6. All Ash debris and bark to be disposed of in accordance with current Emerald Ash Borer prevention methods as per Wisconsin Dept. of Agriculture recommendations and ash wood transport, utilization, and disposal regulations.
7. Cut sections with sharp saw for clean, level cuts. Leave no sharp or jagged edges.
8. Remove protruding branches or stubs flush with trunk/branch.
9. Stock pile reclaimed wood on site. Coordinate location with Project Representative.
10. Lay trunk sections on stringers to prevent contact with earth over dry, stable ground in sunny location to season. Keep sections a minimum of 3" above earth for proper air circulation.
11. Final placement and use to be determined. Coordinate with School and Project Representative.

Unless otherwise indicated, scale all work off of plan.

FELLING
Fell trees to prevent damage to adjacent structures and to those trees and shrubs designated to remain. Remove stumps and roots to a clear depth of 36" (0.9 m) below existing grades in areas of lawn, and to full depth in areas of paving, building footings, or utility structures.

PRUNING
Only those branches of existing trees that interfere in some way with the Contractor's operations, or have been damaged by construction are to be pruned. All pruning to be in accordance with specifications.

TREE PROTECTION
If tree, evergreen, or shrub is not shown to be fenced the Tree Protection Zone will include all area from base of plant extending to 3' beyond the drip line' as per ANA specification

PRACTICES
The following practices are prohibited within tree protection zones:
a) Storage of construction materials, debris or excavated material.
b) Parking vehicles or equipment
c) Foot traffic
d) Erection of sheds or structures
e) Impoundment of water or excessive wetting
f) Spillage of noxious material while mixing, placing or storing construction materials
g) Excavation or other digging unless otherwise indicated on construction documents
h) Compaction of soil
i) Fill in excess of three inches in tree protection zones unless indicated on construction documents
j) Attachment of signs to or wrapping materials around trees or plants unless otherwise indicated
k) Do not direct vehicle or equipment exhaust toward tree protection zones
l) Prohibit heat sources, flames, ignition sources, and smoking within or near protection zones and organic mulch.

MATERIALS
1. Fencing to be orange construction fencing, 4' height with stakes spaced a maximum of 6' on center
2. Stakes to be 6' steel with flares

HAMILTON MIDDLE
PLANT REMOVAL SCHEDULE

Overstory Trees

Qty	Size	Root Cond	Latin Name	Common Name	Comments
1	12"	--	*Acer platanoides*	Norway Maple	Ok
1	12"	--	*Fraxinus pennsylvanica*	Green Ash	Mariginal
1	18"	--	*Fraxinus pennsylvanica*	Green Ash	Marginal

Ornamental Trees

Qty	Size	Root Cond	Latin Name	Common Name	Comments
1	*4"*	--	*Malus s.*	*Flowering Crabapple*	*Dead*
1	*4"*	--	*Malus s.*	*Flowering Crabapple*	*OK*

Shrubs

Qty	Size	Root Cond	Latin Name	Common Name	Comments
1	--	--	*Cornus sericea*	*Red Osier Dogwood*	*Marginal*

VAN HISE ELEMENTARY
PLANT REMOVAL SCHEDULE

Evergreens

Qty	Size	Root Cond	Latin Name	Common Name	Comments
4	6"-8"	--	*Thuja occidentalis*	Cedar	Marginal/Poor

TREE REMOVAL, RECLAMATION, AND PROTECTION

MMSD- HAMILTON/ VANHISE
WAUKESHA ST~ MADISON, WI 53705
EXISTING LANDSCAPE INVENTORY

ZDA OUTDOOR CREATIVE
4797 Capitol View Rd Middleton, WI 53562
608 831.5098 tel
608 831.9071 fax

DWN BY: JAV
DATE: 08-11-2015
REV(S):09-03-2015

SCALE: 1"=20'
0 10 20 FT

SHEET ___ OF ___
L-1.0

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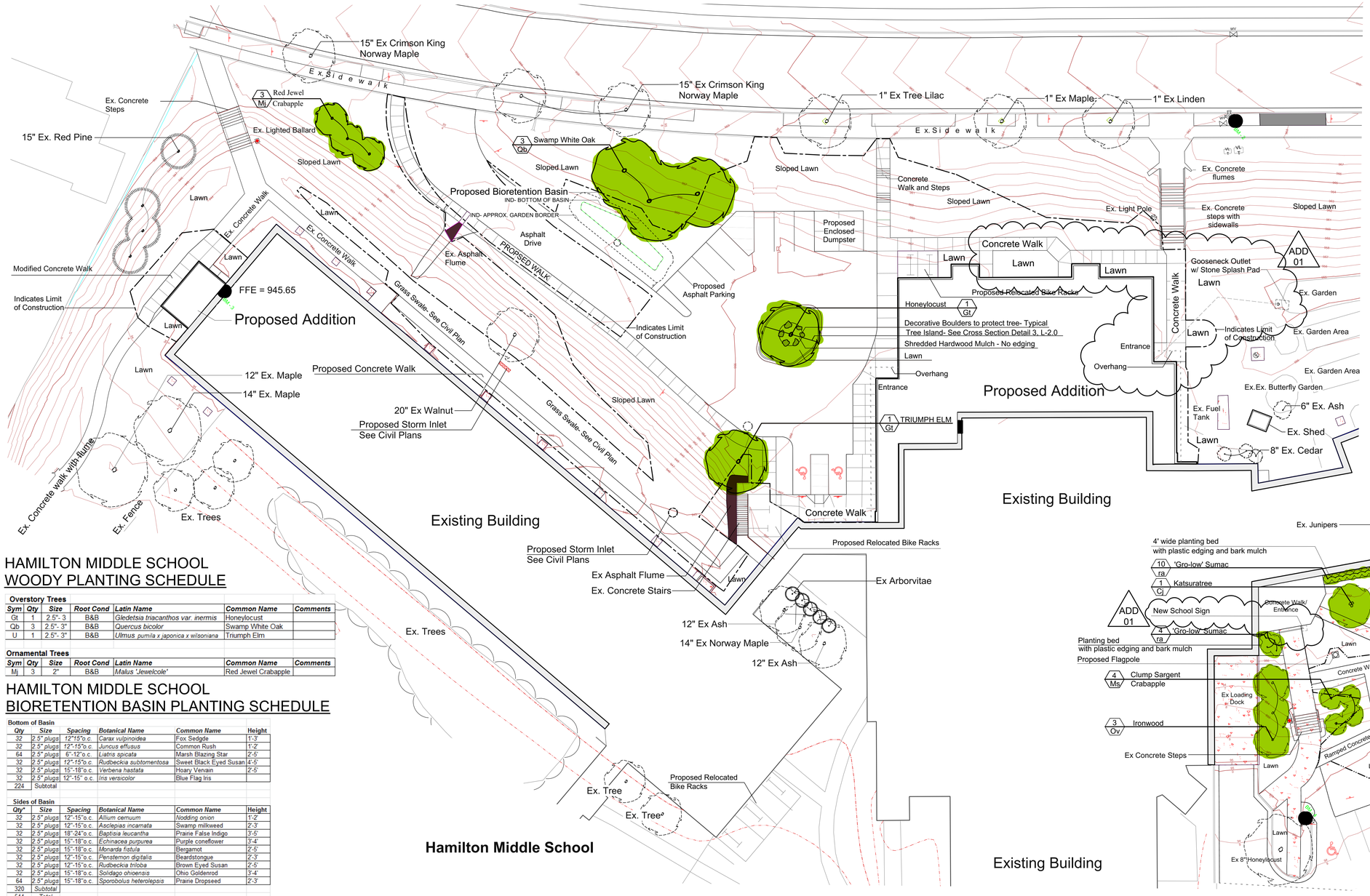
Hamilton/ Van Hise Schools - 3rd Addition & Interior Renovation
Waukehsa Street, Madison, WI 53714

Revisions:
ADD-01 09-03-2015

Drawn By: ZDA, inc.
Date: 08-20-2015
Job No.: 140248-03
Sheet No.: L-1.0



HAMILTON MIDDLE SCHOOL
WOODY PLANTING SCHEDULE

Overstory Trees

Sym	Qty	Size	Root Cond	Latin Name	Common Name	Comments
Gt	1	2.5"- 3	B&B	*Gleditsia triacanthos var. inermis*	Honeylocust	
Qb	3	2.5"- 3"	B&B	*Quercus bicolor*	Swamp White Oak	
U	1	2.5"- 3"	B&B	*Ulmus pumila x japonica x wilsoniana*	Triumph Elm	

Ornamental Trees

Sym	Qty	Size	Root Cond	Latin Name	Common Name	Comments
Mj	3	2"	B&B	*Malus 'Jewelcole'*	Red Jewel Crabapple	

HAMILTON MIDDLE SCHOOL
BIORETENTION BASIN PLANTING SCHEDULE

Bottom of Basin

Qty	Size	Spacing	Botanical Name	Common Name	Height
32	2.5" plugs	12"-15"o.c.	*Carex vulpinoidea*	Fox Sedgde	1'-3'
32	2.5" plugs	12"-15"o.c.	*Juncus effusus*	Common Rush	1'-2'
64	2.5" plugs	6"-12"o.c.	*Liatris spicata*	Marsh Blazing Star	2'-5'
32	2.5" plugs	12"-15"o.c.	*Rudbeckia subtomentosa*	Sweet Black Eyed Susan	4'-5'
32	2.5" plugs	15"-18"o.c.	*Verbena hastata*	Hoary Vervain	2'-5'
32	2.5" plugs	12"-15" o.c.	*Iris versicolor*	Blue Flag Iris	
224	Subtotal				

Sides of Basin

Qty*	Size	Spacing	Botanical Name	Common Name	Height
32	2.5" plugs	12"-15"o.c.	*Allium cernuum*	Nodding onion	1'-2'
32	2.5" plugs	12"-15"o.c.	*Asclepias incarnata*	Swamp milkweed	2'-3'
32	2.5" plugs	18"-24"o.c.	*Baptisia leucantha*	Prairie False Indigo	3'-5'
32	2.5" plugs	15"-18"o.c.	*Echinacea purpurea*	Purple coneflower	3'-4'
32	2.5" plugs	15"-18"o.c.	*Monarda fistula*	Bergamot	2'-5'
32	2.5" plugs	12"-15"o.c.	*Penstemon digitalis*	Beardstongue	2'-3'
32	2.5" plugs	12"-15"o.c.	*Rudbeckia triloba*	Brown Eyed Susan	2'-5'
32	2.5" plugs	15"-18"o.c.	*Solidago ohioensis*	Ohio Goldenrod	3'-4'
64	2.5" plugs	15"-18"o.c.	*Sporobolus heterolepsis*	Prairie Dropseed	2'-3'
320	Subtotal				
544	Total				

VAN HISE ELEMENTARY SCHOOL
PLANTING SCHEDULE

Overstory Trees

Sym	Qty	Size	Root Cond	Latin Name	Common Name	Comments
Cj	1	2.5"-3	B&B	*Cercidiphyllum japonicum*	Katsuratree	

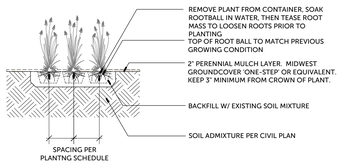
Ornamental Trees

Sym	Qty	Size	Root Cond	Latin Name	Common Name	Comments
Ms	4	2"	B&B	*Malus sargentii*	Sargent Crabapple	
Ov	3	2"	B&B	*Ostrya virginiana*	Ironwood	

Ornamental Trees

Sym	Qty	Size	Root Cond	Latin Name	Common Name	Comments
ra	14	24"	Cont.	*Rhus aromatica 'Gro-low'*	Gro-Lo Fragrant Sumac	

PLANTING DETAILS:

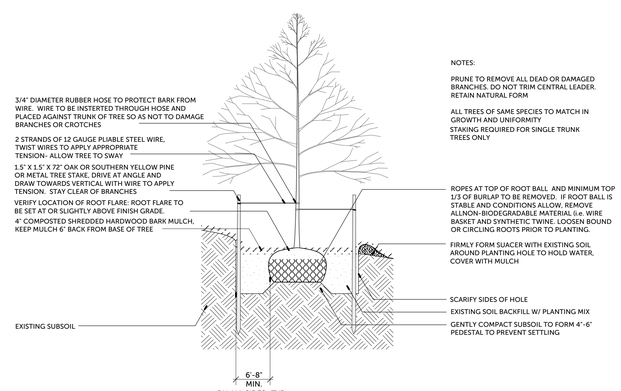


PERENNIAL PLANTING NOTES:
THOROUGHLY WATER ALL CONTAINER GROWN PERENNIALS PRIOR TO PLANTING. ENSURE ROOT BALL IS EVENLY MOIST AT TIME OF PLANTING.

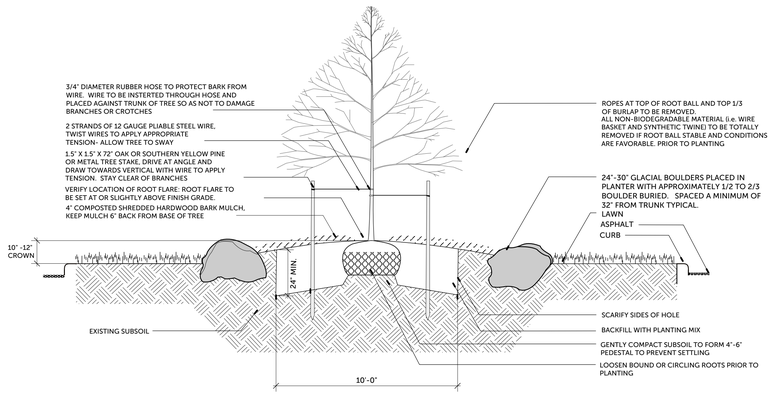
PERENNIALS OF SAME SPECIES TO MATCH IN GROWTH AND UNIFORMITY

LAYOUT: PLANT SHORTER SIDE BASIN PERENNIALS NEAR EDGE OF THE BASIN, TALLER PLANTS TOWARD CENTER

2 L-2.0 BIORETENTION BASIN PLANTING DETAIL
3/8" = 1'-0"



1 L-2.0 DECIDUOUS TREE PLANTING DETAIL
3/8" = 1'-0"



3 L-2.0 TREE ISLAND DETAIL
3/8" = 1'-0"

HAMILTON MIDDLE AND VAN HISE ELEMENTARY
FIELD NOTES:

Unless otherwise indicated, all dimensions and work to be scaled off of plan.

INSPECTIONS
Plants are to be inspected on delivery to the project site, and the Landscape Architect or Project Representative may reject any specimens no longer meeting the specified standards or that have been damaged in transit.

DELIVERY, STORAGE AND HANDLING
All plants shall be labeled by plant name and size. Labels shall be attached securely to all plants, bundles, and containers of plant materials when delivered.

MATERIALS
Topsoil: Naturally fertile, agricultural soil, capable of sustaining vigorous growth. Must be of uniform composition throughout without admixtures of subsoil and free of clay, stones larger than 1/2" in diameter, roots, trash, plastic, glass and debris of any kind. Topsoil to be loamy sandy loam' as per soil texture triangle and to be in natural, friable state at all times.

Compost: Compost shall be coarse, well-composted leaf compost or similar as approved by Landscape Architect or Project Representative free of roots, trash, plastic, glass, debris of any kind, weeds and seeds.

Planting Mixture: Planting mixture shall be two-parts topsoil and one-part compost mixed on site and approved by Landscape Architect or Project Representative.

Fertilizer: All plants shall receive granular, slow-release Osmocote' or equivalent fertilizer as per manufacturer's specifications at time of planting along with a quick release root stimulant product such as North Country Organics Stress-X' or equivalent.

Tree Mulch: Twice shredded, aged hardwood bark, free of material detrimental to healthy plant growth. All applications of mulch to trees to be 4" thick and a minimum of, 3' radius from trunk of tree. All mulch to be kept back a minimum of 6" from tree trunk.

Bark Mulch Beds: 4" minimum thickness with 'Preen' pre-emergent of similar. No weed barrier or landscape fabric.

Perennial Mulch: 2" Midwest Groundcover 'One-Step' perennial mulch. Keep mulch 3" minimum back from crown of plant.

Plastic Edging: Heavy commercial grade black poly, staked every 4' on center.

Boulders: Six 24"-30" glacial boulders placed in panter with approximately 1/3 to 2/3 boulderburied. Spaced a minimum of 32" from tree trunk.

PLANTING OF TREES
Backfill all trees with planting mixture. When pit is approximately two-thirds backfilled water thoroughly to eliminate air pockets. After initial watering, add remainder of backfill soil to the top of pit, water without puddling, and gently tamp. Do not compact. Form a 2-3" (5.1 - 7.6 cm) high water saucer around the outer rim of the pit prior to mulching. All single trunk trees to be staked. See tree planting detail 1/L-2.0

PLANTING OF PERENNIALS
Preparation: Installation and handling of soil and bioretention mix to be executed only when soils are friable and under dry conditions. No puddled, compacted or desecrated product will be accepted.
Installation of all perennials shall be done when soils are friable, under dry conditions and as per planting and bioretention details. See 2/L-2.0

BIORETENTION BASIN PLANTINGS
To meet City of Madison Rain Garden Specifications
1. Total Rain Garden Area= 830 sq. ft., Plant one (1) plant per two (2) sq. ft. = 415 plants, minimum.
2. All plants to be 2 1/2" or 3 1/2" plugs
3. All plants are selected from City of Madison List of Acceptible Plants, per Attachment #1: Rain Garden Plant List. See Bioretention Basin Planting Schedule, L-2.0.

MMSD- HAMILTON/ VANHISE
WAUKESHA ST– MADISON, WI 53705
PLANTING PLAN

ZDA OUTDOOR CREATIVE
4797 Capitol View Rd
Middleton, WI 53562
608 831.5098 tel
608 831.9071 fax

DWN BY: SGZ/ JAV
DATE: 08-05-2015
REVISIO9-03-2015

SCALE: 1"=20'
0 10 20 FT
SHEET 1 OF 1
L-2.0

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Madison Metropolitan School District
Hamilton/ Van Hise Schools - 3rd Addition & Interior Renovation
Waukehsa Street, Madison, WI 53714

Revisions:
ADD-01 09-03-2015

Drawn By:
ZDA, inc.

Date:
08-20-2015

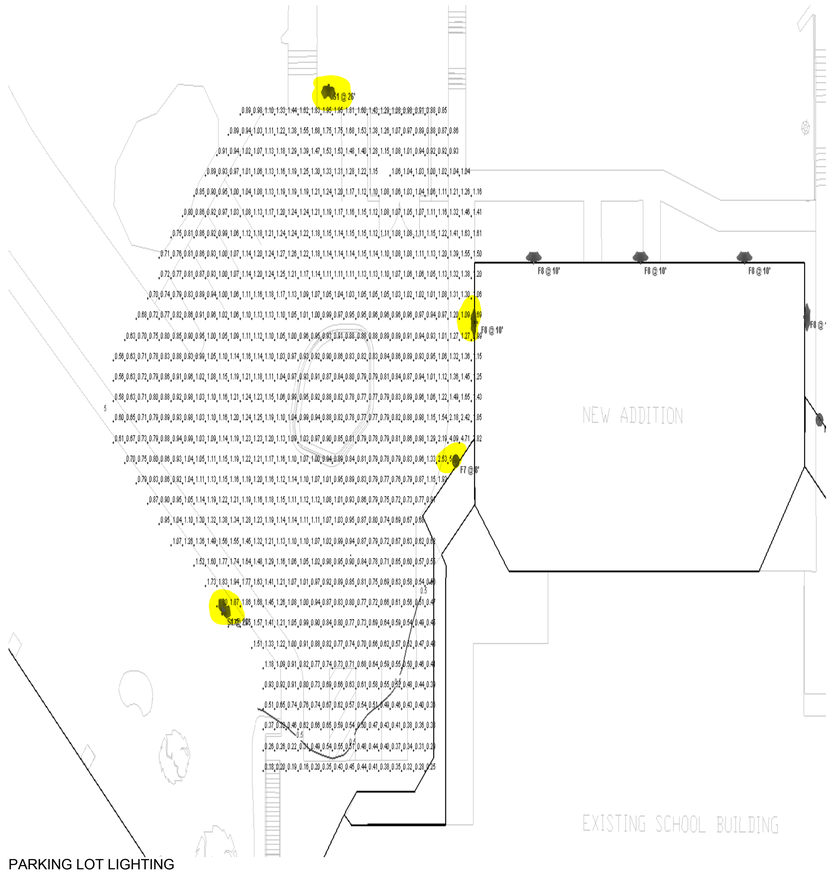
Job No.:
140248-03

Sheet No.:
L-2.0

Luminaire Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	S1	2	Lithonia Lighting	KAD LED 30C 1000 40K R4 MVOLT	KAD LED, 30 LED, 1 AMP MVOLT DRIVER, 4000K, TYPE 4 OPTICS.	LED	1	KAD_LED_30C_1000_40K_R4_MVOLT.ies	9419.833	1	106
	F7	2	Lithonia Lighting	OLCFM 15 DDB	GENERAL PURPOSE LED CAST FLUSH MOUNT WITH DARK BRONZE FINISH	LED	1	OLCFM_15_DDB.ies	1042.224	1	16.6
	F8	5	Lithonia Lighting	TWP LED 10C 700 50K T3M	TWP LED, 10 LED'S, 700mA DRIVER, 5000K CCT, TYPE 3 OPTIC	LED	1	TWP_LED_10C_700_50K_T3M.ies	1614.11	1	26

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
EXTERIOR	+	0.8 fc	11.8 fc	0.1 fc	118.0:1	8.0:1	0.1:1
PARKING LOT	+	1.01 fc	5.52 fc	0.16 fc	34.5:1	6.3:1	0.2:1

OVERALL SIGHT LIGHT TRESPASS TEST



PARKING LOT LIGHTING

pra PLUNKETT RAYSICH ARCHITECTS, LLP
209 south water street milwaukee, wisconsin 53204 414 359 3060
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1613 fruitville road suite 3 sarasota, florida 34236 941 348 3618
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Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovation
4801 Waukesha St, Madison, WI 53705

Revisions

Drawn By: ANW

Date: 09-03-2015

Job No.: 140248-03

Sheet No.: E002

KJWW ENGINEERING CONSULTANTS
The FUTURE Built SMARTER.
802 WEST BROADWAY, SUITE 312
MADISON, WISCONSIN 53713-1839
608.223.9600 FAX: 608.223.9601
www.kjww.com
PROJECT # 15.0464.03

REFERENCE SCALE IN INCHES
0 1 2 3

KEYNOTES: (#)

1. TWO SWITCHES SHALL CONTROL MULTILEVEL LIGHTING FOR LIGHT FIXTURES WITHIN FIRST ROW NEXT TO EXTERIOR WINDOWS FOR DAYLIGHT ZONE; TWO SWITCHES SHALL CONTROL MULTILEVEL FOR OTHER FIXTURES. OCCUPANCY SENSOR(S) SHALL OVERRIDE ALL OFF.
2. SWITCHES ARE TAGGED IN PARTS FOR MULTI-LEVEL CONTROL OF LIGHTING. OCCUPANCY SENSORS SHALL OVERRIDE ALL OFF.
3. FIXTURE SHALL BE CONTROLLED THROUGH LC-1. REFER TO 3/E001 FOR CONTROL DETAIL.
4. CONNECT TO SPARE 20A/1P BREAKER IN EXISTING PANEL '4A' WITH 2#12 AND 1#12 GND IN 3/4" C.
5. NEW SWITCH FOR EXISTING KITCHEN LIGHTING. EXTEND EXISTING KITCHEN SWITCH WIRING TO NEW SWITCH LOCATION USING #12 WIRES IN 3/4" C.

CIRCUIT ALL LIGHTING LOADS TO NEW PANEL 'P30' UNLESS NOTED OTHERWISE.

LIMITS OF CONSTRUCTION

CANOPY

LMC (MIDDLE SCHOOL) 197

LMC (ELEMENTARY)

CORRIDOR 176B

TOILET 191

ROOM 194A

ROOM 194B

ROOM 190B

ROOM 190A

RECEIVING 192

CORR. 192

TOILET 193

STORAGE 138B

NEW CAFETERIA 138C

CORRIDOR 176

STOR. 138A

KITCHEN 140

CAFETERIA 138

ROOM 140A

ROOM 140B

ROOM 140C

CORRIDOR E180

CORRIDOR 178

CORRIDOR 175

ESL CC 132B

SENSORY OT/PT 131

SAFE ROOM 132A

CORRIDOR 131

BOOK ROOM

CORRIDOR 177

UNISEX TLT. 128A

STAFF LOUNGE

CLASSROOM E127

CLASSROOM E125

CLASSROOM E124

CLASSROOM E126

CORRIDOR 177

STAIR E4

ROOM E141

GYMNASIUM E137

STAIR

RECEPTION 133

VESTIBULE 174

SEC. 1 133H

TOILET 134/B

SEC. 2 133G

STOR. 133B

SCI. LAB/S 133E

HALL 134

SCI. WRK. 133D

PSY 130

PRINCIPAL 133A

RESTROOM 133A

RES. AREA 133

LIMITS OF CONSTRUCTION

30

AA

BB

'A'

'B'

'C'

NORTH

1 FIRST FLOOR PLAN - AREA 'B' - LIGHTING

1/8" = 1'-0"

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MADISON, WISCONSIN 53713-1939
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www.kjww.com
PROJECT # 15.0464.03

REFERENCE SCALE IN INCHES

0 1 2 3

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Madison Metropolitan School District
Hamilton Middle School - 5th Addition & Interior Renovation
4801 Waukesha St, Madison, WI 53705

Revisions	
ADD-01	09-03-15

Drawn By: ANW

Date: 09-03-2015

Job No.: 140248-03

Sheet No.: EL201

PLUNKETT RAYSICH ARCHITECTS, LLP

MADISON METROPOLITAN SCHOOL DISTRICT
Madison, Wisconsin

Hamilton Middle & Van Hise Elementarty Schools

August 25, 2015

Perspective of Addition

TWP LED
LED Wall Luminaire

F8

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The popular TWP luminaire is now available with LED technology. Cast in a traditional dayform, the TWP LED offers a classic appearance and is powered by advanced LEDs. A one-piece polycarbonate cover delivers enhanced durability and is vandal resistant, making the TWP LED ideal for lower mounting heights or high-traffic areas.

The new TWP LED luminaire is powerful yet energy efficient, capable of replacing up to a 250W metal halide luminaire while saving up to 77% in energy costs. Offering an expected service life of more than 20 years, the TWP LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

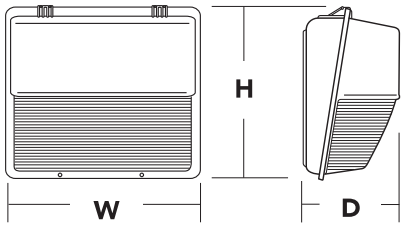
Specifications

Width: 16-1/8" (41.0 cm)

Height: 15-1/2" (39.4 cm)

Depth: 7-3/4" (19.7 cm)

Weight: 15 lbs (6.8kg)



Ordering Information

EXAMPLE: TWP LED 30C 700 50K T3M MVOLT DDBXD

TWP LED						
Series	**Performance Package**	**Distribution**	**Voltage**	**Control Options**	**Other Options**	**Finish** *(required)*
TWP LED	**LEDs** 10C 10 LEDs (one engine) 20C 20 LEDs (two engines) 30C 30 LEDs (one engine) **Drive current** 700 700 mA **Color temperature** 50K 5000 K (standard) 40K 4000 K (optional)	T3M Type III Medium	MVOLT [1] 120 [1] 208 [1] 240 [1] 277 [1] 347 [2] 480 [2]	**Shipped installed** DMG 0-10V dimming driver (no controls) PE Photoelectric cell, button type [3]	**Shipped installed** SF Single fuse (120, 277, 347V) [4] DF Double fuse (208, 240, 480V) [4] TP Tamper proof screws NOM NOM Certified SPD Separate surge protection [5] **Shipped separately** WG Wire guard [6]	DDBXD Dark bronze DBLXD Black DWHXD White DDBTXD Textured dark bronze DBLBXD Textured black DWHGXD Textured white

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
TWP LED 10C 700 50K T3M MVOLT DDBXD	**TWP LED 10C 50K**
TWP LED 20C 700 50K T3M MVOLT DDBXD	**TWP LED 20C 50K**
TWP LED 30C 700 50K T3M MVOLT DDBXD	**TWP LED 30C 50K**

Accessories

Ordered and shipped separately.

TWPWG U Wire guard accessory [7]

NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
2. Not available with 10C option.
3. Must specify voltage; not available with MVOLT or 480 voltage options.
4. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5. See the electrical section on page 2 for more details.
6. Also available as a separate accessory; see Accessories information at left.
7. Requires field modification (only when ordered as a separate accessory).

LITHONIA LIGHTING

One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • Fax: 770.918.1209 • www.lithonia.com

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	Performance Package	System Watts	Dist. Type	40K (4000 K, 70 CRI)					50K (5000 K, 65 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	700	10C 700 --K	26 W	T3M	1,478	0	3	2	57	1,614	0	3	2	62
20C (20 LEDs)	700	20C 700 --K	45 W	T3M	2,877	0	3	3	64	3,149	0	3	3	70
30C (30 LEDs)	700	30C 700 --K	67 W	T3M	4,157	0	3	3	62	4,377	0	3	3	65

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **TWP LED 30C 700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.97	0.96	0.94

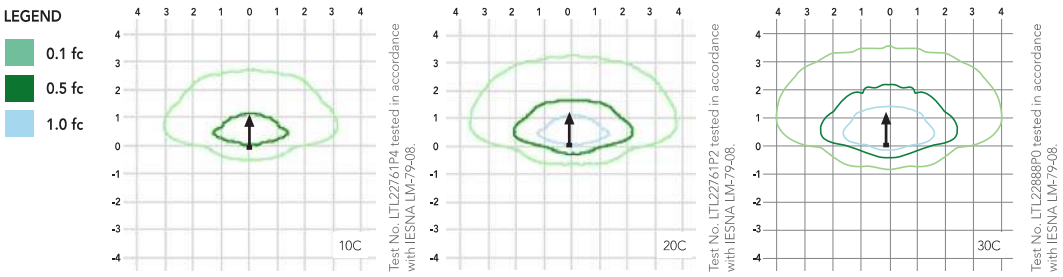
Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	700	26 W	0.24	0.14	0.12	0.10	-	-
20C	700	45 W	0.42	0.24	0.21	0.18	0.14	0.10
30C	700	67 W	0.62	0.36	0.31	0.27	0.21	0.16

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's TWP LED homepage.

Isofootcandle plots for the TWP LED --- 700 50K T3M. Distances are in units of mounting height (15').



FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings, long life and easy-to-install design of the TWP LED make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION
Die-cast aluminum rear housing has an impact-resistant, UV-stabilized polycarbonate front housing and refractor that is fully gasketed. Modular design allows for ease of maintenance. The LED driver is mounted to the front casting to thermally isolate it from the light engine for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in textured and non-textured finishes.

OPTICS
Protective polycarbonate lens covers the light engine's precision-molded proprietary acrylic lenses. Light engines are available in 5000 K (65 min. CRI) configurations.

ELECTRICAL
Light engine(s) consist of 10 or 30 high-efficacy LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (L94/100,000 hrs at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION
Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a condulet tee. Mount on any flat, vertical surface.

LISTINGS
UL listed for wet locations. Rated for -40°C minimum ambient.

WARRANTY
Five year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

EM3

Cold Location LED Emergency Light, Wet-listed, Dark Bronze

$84.99

SKU: E-XML4CWZ

Quantity 1

ADD TO CART

ADD TO QUOTE

OUT OF STOCK
Available 5/25/2015

RATINGS

WRITE A REVIEW

ASK A QUESTION

OVERVIEW

Wet-listed, cold location LED emergency light in dark bronze with input of 120V or 277V

FEATURES

- Die-cast aluminum housing with durable powder-coated finish
- Polycarbonate prismatic refractor
- Charge/power on indicator LED
- Push-to-test
- Sealed, 4.8V maintenance-free nickel cadmium battery provides up to 90 minutes of emergency operation
- Battery recharges within 24 hours via internal solid-state, two-rate charger
- Includes back plate for wall mount. Universal knockout pattern on back plate provides for easy installation over most standard junction boxes
- Fully gasketed
- Meets UL924, NFPA 101 Life Safety Code, NEC, OSHA codes
- 5-year limited warranty on housing and electronics

APPLICATIONS

For general purpose exit identification in indoor commercial, retail, or industrial applications.

KAD LED
LED Area Luminaire

S1

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

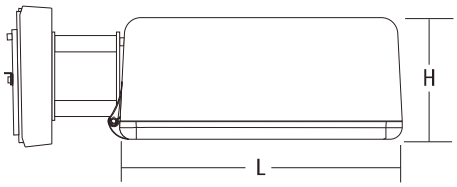
EPA: 1.2 ft² (0.11 m²)

Length: 17-1/2" (44.5 cm)

Width: 17-1/2" (44.5 cm)

Height: 7-1/8" (18.1 cm)

Weight (max): 36 lbs. (16.4 kg)



Introduction

The Contour® Series luminaires offer traditional square dayforms with softened edges for a versatile look that complements many applications. The KAD LED combines the latest in LED technology with the familiar aesthetic of the Contour® Series for stylish, high-performance illumination that lasts. It is ideal for replacing 100- 400W metal halide in area lighting applications with typical energy savings of 70% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: KAD LED 40C 1000 40K R5 MVOLT PUMBAK04 DDBXD

KAD LED

Series	LEDs	Drive current	CCT	Distribution	Voltage	Mounting[2]
KAD LED	20C 20 LEDs	530 530 mA	30K 3000 K	R2 Type II	MVOLT	277 [1]
	30C 30 LEDs	700 700 mA	40K 4000 K	R3 Type III	120 [1]	347
	40C 40 LEDs	1000 1000 mA	50K 5000 K	R4 Type IV	208 [1]	480
	60C 60 LEDs			R5 Type V	240 [1]	

Shipped included

PUMBAK___	Universal mounting adaptor [3]	04	4" arm
SPD___	Square pole	06	6" arm
RPD___	Round pole	09	9" arm
WBD___	Wall bracket	12	12" arm
WWD___	Wood pole or wall		

Shipped separately

DAD12P	Degree arm (pole)
DAD12WB	Degree arm (wall)

Options

Shipped installed

PER7	NEMA twist-lock receptacle only (no controls)
SF	Single fuse (120, 277, 347V) [1]
DF	Double fuse (208, 240, 480V) [1]
PIR	Motion sensor, 8-15' mounting height [4,5]
PIRH	Motion sensor, 15-30' mounting height [4,5]
BL30	Bi-level switched dimming, 30% [5,6,7]
BL50	Bi-level switched dimming, 50% [5,6,7]
PNMTDD3	Part night, dim till dawn [5,6]
PNMT5D3	Part night, dim 5 hrs [5,6]
PNMT6D3	Part night, dim 6 hrs [5,6]
PNMT7D3	Part night, dim 7 hrs [5,6]
HS	Houseside shield [7]

Shipped separately [8]

WG	Wire guard
KMA	Mast arm external fitter

Finish *(required)*

DDBXD	Dark bronze	DDBTXD	Textured dark bronze
DBLXD	Black	DBLBXD	Textured black
DNAXD	Natural aluminum	DNATXD	Textured natural aluminum
DWHXD	White	DWHGXD	Textured white

Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
KAD LED 30C 1000 40K R3 MVOLT PUMBAK09 DDBXD	KADL 30C 40K R3
KAD LED 30C 1000 40K R5 MVOLT PUMBAK09 DDBXD	KADL 30C 40K R5
KAD LED 40C 1000 40K R3 MVOLT PUMBAK09 DDBXD	KADL 40C 40K R3
KAD LED 40C 1000 40K R5 MVOLT PUMBAK09 DDBXD	KADL 40C 40K R5
KAD LED 30C 1000 40K R3 MVOLT PUMBAK09 PIRH DDBXD	KADL 30C 40K R3 PIRH
KAD LED 30C 1000 40K R5 MVOLT PUMBAK09 PIRH DDBXD	KADL 30C 40K R5 PIRH
KAD LED 40C 1000 40K R3 MVOLT PUMBAK09 PIRH DDBXD	KADL 40C 40K R3 PIRH
KAD LED 40C 1000 40K R5 MVOLT PUMBAK09 PIRH DDBXD	KADL 40C 40K R5 PIRH

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [9]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [9]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [9]
SC U	Shorting cap [9]
KADLEDHS 20C U	Houseside shield for 20 LED unit
KADLEDHS 30C U	Houseside shield for 30 LED unit
KADLEDHS 40C U	Houseside shield for 40 LED unit
KADLEDHS 60C U	Houseside shield for 60 LED unit
KMA DDBXD U	Mast arm adapter (specify finish)
KADWG U	Wire guard accessory
PUMBAK DDBXD U*	Square and round pole universal mounting bracket adaptor (specify finish)

For more control options, visit DTL and ROAM online.
**Round pole top must be 3.25" O.D. minimum.*

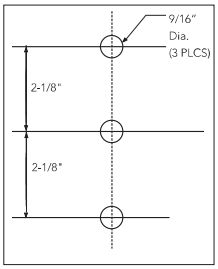
NOTES

1. MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
2. 9" or 12" arm is required when two or more luminaires are oriented on a 90° drilling pattern.
3. Available as a separate combination accessory: PUMBAK (finish) U.
4. PIR specifies the SensorSwitch SBGR-10-ODP control; PIRH specifies the SensorSwitch SBGR-6-ODP control; see Motion Sensor Guide for details. Dimming driver standard.
5. Maximum ambient temperature with 347V or 480V is 30°C.
6. Requires an additional switched circuit with same phase as main luminaire power. Supply circuit and control circuit are required to be in the same phase.
7. Dimming driver standard. MVOLT only.
8. Also available as a separate accessory; see Accessories information at left.
9. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Drilling

Template #5

Top of Pole



Tenon Mounting Slipfitter**

Tenon O.D.	Single Unit	2 at 180°	2 at 90° †	3 at 120°	3 at 90° †	4 at 90° †
2-3/8"	T20-190	T20-280	T20-290	T20-320 †	T20-390	T20-490
2-7/8"	T25-190	T25-280	T25-290	T25-320	T25-390	T25-490
4"	T35-190	T35-280	T35-290	T35-320	T35-390	T35-490

*** For round pole mounting (RPDXX) only.* *† Requires 9" or 12" arm.*

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C (20 LEDs)	530 mA	35 W	R2	3,615	1	0	1	95	3,846	1	0	1	101	3,860	1	0	1	102
			R3	3,600	1	0	1	95	3,830	1	0	1	101	3,844	1	0	1	101
			R4	3,605	1	0	1	95	3,835	1	0	1	101	3,849	1	0	1	101
			R5	3,826	2	0	1	101	4,070	3	0	1	107	4,084	3	0	1	107
	700 mA	46 W	R2	4,537	1	0	1	95	4,827	1	0	1	101	4,844	1	0	2	101
			R3	4,519	1	0	2	94	4,807	1	0	2	100	4,825	1	0	2	101
			R4	4,524	1	0	2	94	4,813	1	0	2	100	4,830	1	0	2	101
			R5	4,802	3	0	1	100	5,108	3	0	1	106	5,126	3	0	1	107
	1000 mA	73 W	R2	6,203	1	0	2	86	6,598	2	0	2	92	6,622	2	0	2	92
			R3	6,177	1	0	2	86	6,571	1	0	2	91	6,595	1	0	2	92
			R4	6,185	1	0	2	86	6,579	1	0	2	91	6,603	1	0	2	92
			R5	6,564	3	0	1	91	6,983	3	0	1	97	7,008	3	0	1	97
30C (30 LEDs)	530 mA	53 W	R2	5,328	1	0	2	99	5,669	1	0	2	105	5,689	1	0	2	105
			R3	5,307	1	0	2	98	5,645	1	0	2	105	5,666	1	0	2	105
			R4	5,313	1	0	2	98	5,652	1	0	2	105	5,672	1	0	2	105
			R5	5,639	3	0	1	104	5,999	3	0	1	111	6,020	3	0	1	111
	700 mA	69 W	R2	6,674	2	0	2	95	7,100	2	0	2	101	7,126	2	0	2	102
			R3	6,647	1	0	2	95	7,071	2	0	2	101	7,097	2	0	2	101
			R4	6,655	1	0	2	95	7,080	1	0	2	101	7,105	1	0	2	102
			R5	7,063	3	0	2	101	7,514	3	0	2	107	7,541	3	0	2	108
	1000 mA	108 W	R2	8,881	2	0	2	84	9,448	2	0	2	89	9,482	2	0	2	89
			R3	8,844	2	0	2	83	9,409	2	0	2	89	9,443	2	0	2	89
			R4	8,855	2	0	2	84	9,420	2	0	2	89	9,454	2	0	2	89
			R5	9,398	3	0	2	89	9,998	4	0	2	94	10,034	4	0	2	95
40C (40 LEDs)	530 mA	71 W	R2	7,034	2	0	2	102	7,483	2	0	2	108	7,510	2	0	2	109
			R3	7,005	2	0	2	102	7,453	2	0	2	108	7,479	2	0	2	108
			R4	7,014	1	0	2	102	7,462	1	0	2	108	7,488	1	0	2	109
			R5	7,444	3	0	2	108	7,919	3	0	2	115	7,947	3	0	2	115
	700 mA	94 W	R2	8,737	2	0	2	96	9,295	2	0	2	102	9,329	2	0	2	103
			R3	8,701	2	0	2	96	9,257	2	0	2	102	9,290	2	0	2	102
			R4	8,712	2	0	2	96	9,268	2	0	2	102	9,301	2	0	2	102
			R5	9,246	3	0	2	102	9,836	4	0	2	108	9,871	4	0	2	108
	1000 mA	141 W	R2	11,537	2	0	2	82	12,273	2	0	2	88	12,322	2	0	2	88
			R3	11,489	2	0	3	82	12,223	2	0	3	87	12,272	2	0	3	88
			R4	11,503	2	0	3	82	12,237	2	0	3	87	12,286	2	0	3	88
			R5	12,208	4	0	2	87	12,988	4	0	2	93	13,039	4	0	2	93
60C (60 LEDs)	530 mA	103 W	R2	10,334	2	0	2	102	10,993	2	0	2	109	11,033	2	0	2	109
			R3	10,291	2	0	2	102	10,948	2	0	2	108	10,988	2	0	2	109
			R4	10,304	2	0	2	102	10,961	2	0	2	109	11,001	2	0	2	109
			R5	10,935	4	0	2	108	11,633	4	0	2	115	11,675	4	0	2	116
	700 mA	137 W	R2	12,871	2	0	2	96	13,692	3	0	3	102	13,742	3	0	3	103
			R3	12,818	2	0	3	96	13,636	2	0	3	102	13,685	2	0	3	102
			R4	12,833	2	0	3	96	13,653	2	0	3	102	13,702	2	0	3	102
			R5	13,620	4	0	2	102	14,489	4	0	2	108	14,541	4	0	2	109
	1000 mA	216 W	R2	16,336	3	0	3	76	17,379	3	0	3	80	17,440	3	0	3	81
			R3	16,268	3	0	3	75	17,307	3	0	4	80	17,368	3	0	4	80
			R4	16,288	3	0	3	75	17,328	3	0	4	80	17,389	3	0	4	81
			R5	17,286	4	0	2	80	18,390	4	0	2	85	18,455	4	0	2	85

Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	**77°F**	**1.00**
30°C	86°F	1.00
40°C	104°F	0.99

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **KAD LED** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	KAD LED 60C 1000			
	1.0	0.91	0.86	0.76
	KAD LED 40C 1000			
	1.0	0.93	0.88	0.79
	KAD LED 60C 700			
	1.0	0.98	0.97	0.94

Electrical Load

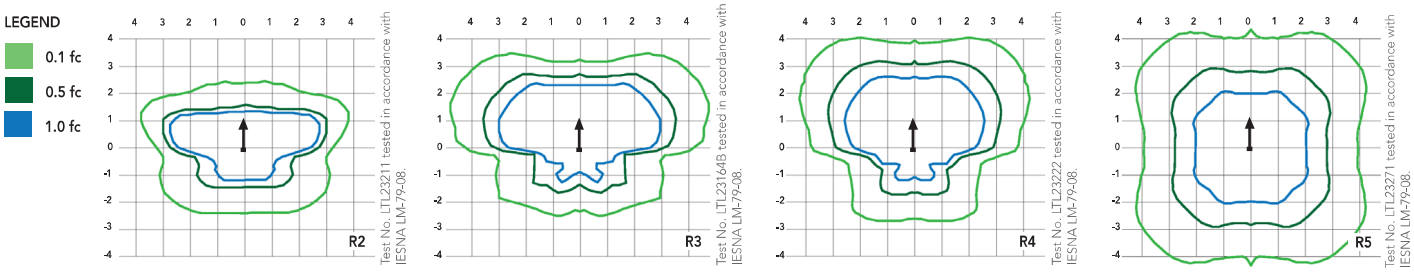
Number of LEDs	Drive Current (mA)	System Watts	Current (A) 120	208	240	277	347	480
20	530	35	0.30	0.18	0.16	0.15	-	-
	700	46	0.39	0.23	0.20	0.18	0.15	0.12
	1000	73	0.61	0.35	0.31	0.27	0.22	0.17
30	530	53	0.44	0.26	0.23	0.20	-	-
	700	69	0.58	0.34	0.29	0.26	0.21	0.16
	1000	108	0.90	0.52	0.46	0.40	0.32	0.24
40	530	71	0.60	0.35	0.32	0.29	0.21	0.16
	700	94	0.79	0.46	0.41	0.36	0.27	0.20
	1000	141	1.18	0.68	0.59	0.52	0.42	0.30
60	530	103	0.87	0.50	0.44	0.39	0.29	0.22
	700	137	1.15	0.66	0.58	0.51	0.40	0.29
	1000	216	1.81	1.04	0.92	0.81	0.63	0.47

NOTE: All ratings in this table are for a nominal system operated at 25°C ambient temperature. Current and power specifications in this table do not include branch circuit derating specified in the National Electrical Code. Please observe all applicable electrical codes and ratings.

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's KAD LED homepage.

Isofootcandle plots for the KAD LED 60C 1000 40K. Distances are in units of mounting height (20').



FEATURES & SPECIFICATIONS

INTENDED USE
The energy savings and long life of the KAD LED area luminaire make it a reliable choice for illuminating streets, walkways, parking lots, and surrounding areas.

CONSTRUCTION
Single-piece die-cast, aluminum housing with contoured edges has a 0.12" nominal wall thickness. Die-cast door frame has an impact-resistant, tempered glass lens that is fully gasketed with one piece tubular silicone.

FINISH
Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS
Precision-molded refractive acrylic lenses are available in four distributions. Light engines are available in standard 4000K, 3000K or 5000K (70 CRI) configurations.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION
Included universal mounting block and extruded aluminum arm facilitate quick and easy installation using nearly any existing drilling pattern. Stainless steel bolts fasten the luminaire to the mounting block securing it to poles or walls. The KAD LED can withstand up to a 1.5 G vibration load rating per ANSI C136.31. The KAD LED also utilizes the standard K-Series (Template #5) for pole drilling.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY
5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.