DOCUMENT 00 90 00
ADDENDUM

ADDENDUM NO. [2] **Date: March 21, 2018**

RE: **EAU CLAIRE AREA SCHOOL DISTRICT**
McKINLEY CHARTER SCHOOL
1266 McKINLEY RD
EAU CLAIRE, WISCONSIN 54701
HSR PROJECT NO. 17057

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated March 2018. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [2] pages, Pre-bid attendance, and [9] 30 x 42 drawings.

1. Pre-bid attendance attached hereto.

CHANGES TO PREVIOUS ADDENDUM: Addendum 1

2. Sheet E001R ELECTRICAL SITE PLAN
    a. Delete connection and branch circuit wiring to heat tape equipment connection.

3. Sheet E100R ELECTRICAL POWER PLAN
    a. Classroom 109: Provide 120 volt branch circuit from Panel A to feed new exhaust fan PV4. Electrical to install speed controller furnished with unit

CHANGES TO SPECIFICATIONS:

4. Section 22 10 06 PLUMBING SPECIALTIES
    a. At sink S-2, provide plaster trap per spec section 22 10 06

CHANGES TO DRAWINGS

5. C100R DEMOLITION PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing

6. C101R LAYOUT PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing

7. Sheet A090 REMOVAL PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

8. Sheet A100R1 FIRST FLOOR 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

9. Sheet A300 SECTIONS
    a. 5 and 6A300: At roof ladders the pieces tying the top of the ladder back to the parapet shall be 2” x 3/8” flat stock, same as the side rails. Bend bottom legs 90º, minimum 3 inches to allow for securing to roof edge blocking. Refer to Section 05 50 00 for breakdown of ladder parts.

10. Sheet S110R FOUNDATION PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing

11. Sheet M090R MECHANICAL REMOVAL PLANS 30 x 42 attached hereto
    a. Revisions clouded on Drawing

12. Sheet M100R MECHANICAL VENTILATION REMODEL PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing

13. Sheet M600R1 MECHANICAL SCHEDULES 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

14. Sheet E101R1 REVISED LIGHTING PLAN 30 x 42 attached hereto
    a. Revisions clouded on Drawing.

END OF DOCUMENT 00 90 00

"SIGN-IN" SHEET

PROJECT: Eau Claire School District-McKinley Charter School

HSR NO.: 17057 DATE: March 16, 2018

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
HSR Associates
Celebrating 65 Years of Innovative Design
100 Milwaukee Street 608.784.1830
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PLEASE PRINT ALL INFORMATION CLEARLY

NAME	COMPANY	E-MAIL ADDRESS	TELEPHONE
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Lucas Kramer	Quality Roofing Inc	LUCAS@QROOF.com	715 384 8881
Jason Pelke	Pelke Plumbing	jason@pelkeplumbing.com	715 495-2756
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Russ Ryan	Certified	rryan@certified-plumbing-heating.com	715-834-5409
Damian Prince	Chippewa Valley Excavating	chippewavalleyexc@Bloomer.net	715-559-0443
Craig Schuebel	Hagen Decorators	craig@hagendecorators.com	715 379 6956

"SIGN-IN" SHEET

PROJECT: Eau Claire School District-McKinley Charter School

HSR NO.: 17057 DATE: March 16, 2018

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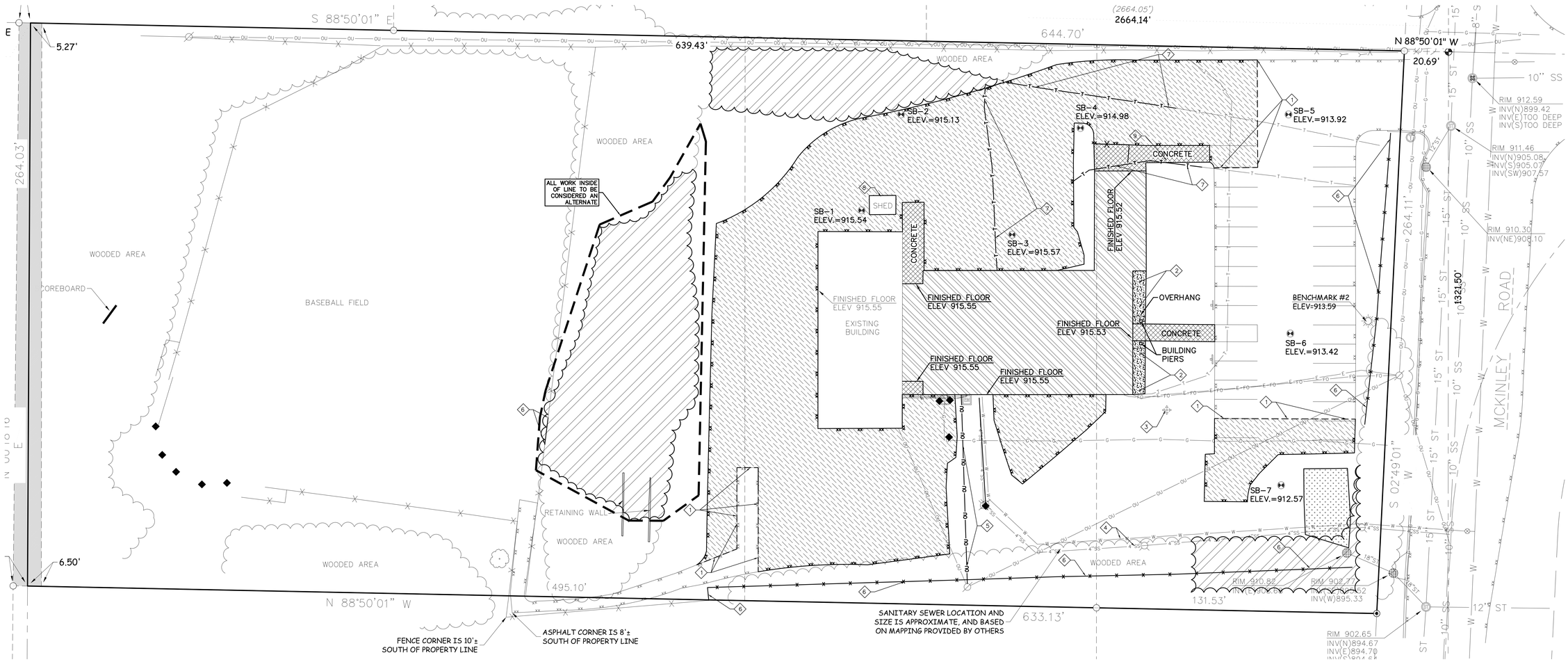
Josh Day	Net Guard Security	Joshua.Day@netguardpro.com	715-552-2349



GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
3. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
4. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
5. COORDINATE WITH THE OWNER AND LOCAL UTILITY COMPANIES TO LOCATE ANY EXISTING UTILITIES ON SITE PRIOR TO THE START OF WORK.
6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
7. STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS.
8. IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT. STOCKPILE LOCATION TO BE DETERMINED BY SITE CONTRACTOR.
9. PRIOR TO PERFORMING WORK WITHIN PUBLIC RIGHT OF WAYS, NOTIFY AND COORDINATE WORK WITH THE LOCAL MUNICIPALITY.
10. EXISTING BUILDING TO REMAIN UNTIL PROPOSED ADDITION IS COMPLETED AND OPERATIONAL.

DEMOLITION HATCH PATTERNS:

- BITUMINOUS REMOVAL
- CONCRETE REMOVAL
- GRAVEL REMOVAL
- BUILDING REMOVAL (SEE GENERAL NOTE #10)
- CLEAR AND GRUB EXISTING WOODED AREA

EXISTING SITE STATISTICS

ZONING = P-PUBLIC PROPERTIES DISTRICT		TOTAL AREA = 3.872 Acres	
TOTAL IMPERVIOUS & PERVIOUS SURFACES			
BUILDING	CONCRETE WALKS & BITUMINOUS PAVEMENT	GREEN SPACE (GRASS)	GREEN SPACE (WOODS)
0.256 Acre	0.956 Acre	1.475 Acre	1.185 Acre
OR 7% OF TOTAL AREA	OR 25% OF TOTAL AREA	OR 38% OF TOTAL AREA	OR 30% OF TOTAL AREA

KEYNOTES:

1. SAWCUT EXISTING BITUMINOUS PAVEMENT
2. REMOVE LANDSCAPE AREA
3. REMOVE FLAG POLE
4. MAINTAIN WATER AND SEWER SERVICE LATERAL
5. REMOVE OVERHEAD SERVICE LINE AT TIME OF BUILDING REMOVAL
6. REMOVE EXISTING FENCE
7. REMOVE TELEPHONE LINE
8. SHED TO BE RELOCATED BY OWNER (SEE LAYOUT PLAN FOR LOCATION)
9. SALVAGE BIKE RACK (SEE LAYOUT PLAN FOR RELOCATION)

DESCRIPTION

BEING A PART OF THE NORTHEAST ¼ OF THE NORTHWEST ¼ OF SECTION 15, TOWNSHIP 27 NORTH, RANGE 9 WEST, CITY OF EAU CLAIRE, EAU CLAIRE COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTH ¼ CORNER OF SECTION 15, TOWNSHIP 27 NORTH, RANGE 9 WEST; THENCE N 88°50'01"W ALONG THE NORTH LINE OF THE NORTHWEST ¼ OF SAID SECTION 15, 20.69 FEET TO THE EAST LINE OF MCKINLEY ROAD AND THE POINT OF BEGINNING (POB) OF THE PARCEL TO BE DESCRIBED; THENCE S 02°49'01"W ALONG THE EAST LINE OF MCKINLEY ROAD, 264.11 FEET; THENCE N 88°50'01"W, 633.13 FEET TO A POINT ON THE WEST LINE OF THE NORTHEAST ¼ OF THE NORTHEAST ¼ OF THE NORTHWEST ¼ OF SAID SECTION 15; THENCE N 00°18'16"E ALONG SAID WEST LINE, 264.03 FEET TO THE NORTH LINE OF THE NORTHWEST ¼ OF SAID SECTION 15; THENCE S 88° 50'01"E ALONG THE NORTH LINE OF THE NORTHWEST ¼ OF SAID SECTION 15, 644.70 FEET TO THE POINT OF BEGINNING.

CONTAINING: 168,673 SQUARE FEET, 3.872 ACRES

BENCH MARK

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
BURY BOLT ON FIRE HYDRANT LOCATED IN THE NORTHEAST QUADRANT OF MCKINLEY ROAD AND TOWER DRIVE.
ELEVATION = 916.04

BENCHMARK #1
60D SET IN POWER POLE LOCATED ON THE WEST SIDE OF MCKINLEY ROAD, APPROXIMATELY 100 FEET SOUTH OF TOWER DRIVE.
ELEVATION = 913.59

0' 20' 40' 60'
Scale 1"=20'

ARCHITECTURE
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Consultant:
Civil Engineering
Land Surveying
Landscape Architecture
5709 Windy Drive, Suite D
Stevens Point, WI 54482
715.344.9999(Ph) 715.344.9922(Fx)

Point of Beginning

Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: DEMOLITION PLAN

POB Project Number: 17.124

Project Date: MARCH 2018

Drawn By: JJL

Certification Stamp:

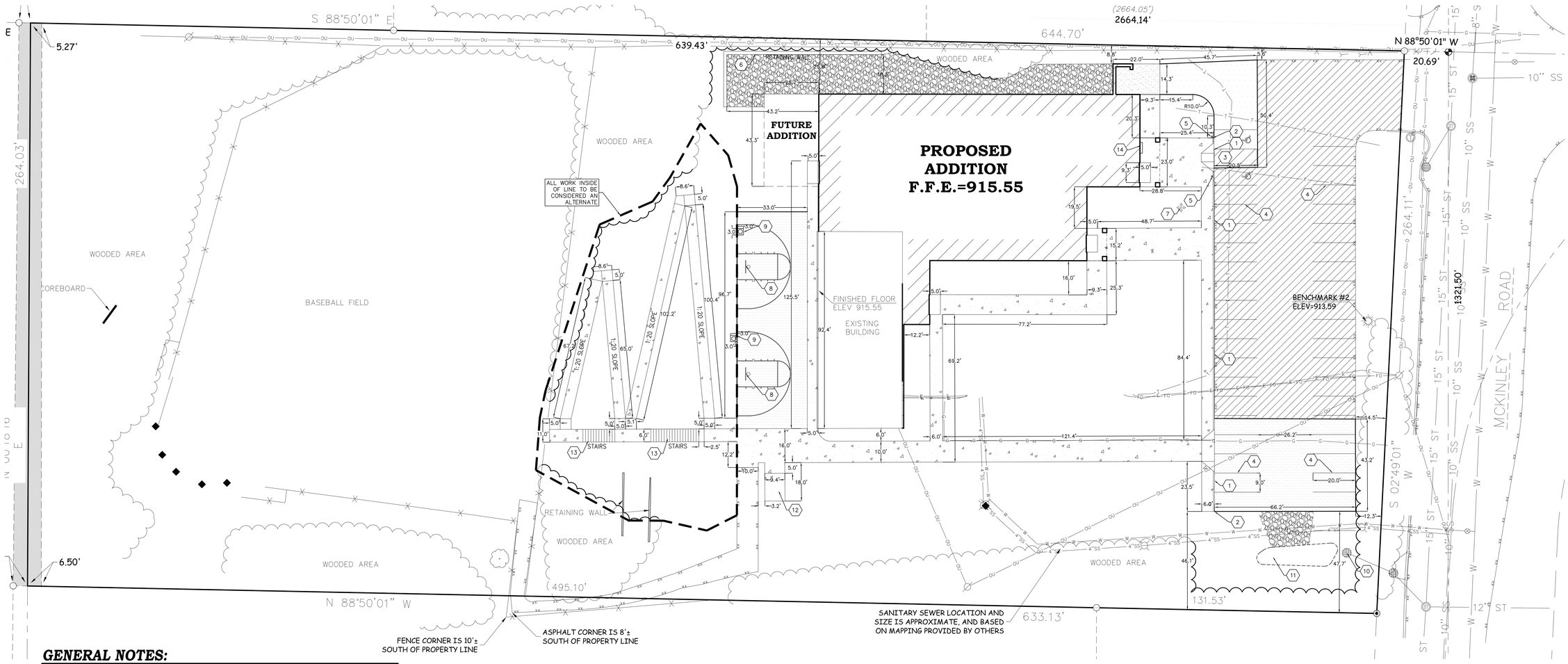
Revisions:

No.	Description	Date
2.	ADDENDUM #2	3/21/18

Graphic Scale: 1"=20'

Last Update: 03/8/2018

C100R



GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONTRACTOR.
3. ALL REQUIRED EROSION CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
4. SEE SHEET C103 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
5. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
7. ALL BIDDERS PLANNING ON SUBMITTING A BID SHALL VISIT THE SITE AND REVIEW THE EXISTING CONDITIONS PRIOR TO THE BID DATE.
8. PRIOR TO THE START OF WORK VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
9. COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
10. PROVIDE PROPER BARRICADES, SIGNS AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS.
11. SIDEWALK JOINTS TO BE AS INDICATED OR AS APPROVED BY CONSTRUCTION ADMINISTRATOR.
12. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED/FERTILIZED/ CRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

PAVEMENT HATCH PATTERNS:

- PROPOSED 3.5" ASPHALT PAVEMENT W/ 10" BASE COURSE — 1 C101
- PROPOSED 4" ASPHALT PAVEMENT W/ 12" BASE COURSE — 2 C101
- PROPOSED 4" CONCRETE PAVEMENT — 3 C101, 5 C101
- PROPOSED 6" REINFORCED CONCRETE PAVEMENT — 4 C101
- SEALCOAT EXISTING PAVEMENT

KEYNOTES:

1. THICKENED EDGE WALK — 5 C101
2. END OF PROPOSED THICKENED EDGE WALK
3. ADA ACCESS ROUTE — 6 C101
4. PARKING LOT STRIPING — 7 C101
5. HANDICAP PARKING SIGN — 8 C101
6. PROPOSED MODULAR BLOCK RETAINING WALL
7. PROPOSED FLAG POLE — 2 C102
8. PROPOSED BASKETBALL HOOP WITH BACKBOARD AND POLE.
9. CONCRETE COLLAR LOCATION FOR STORM DRAIN INLETS (SEE UTILITY PLAN)
10. RAISE STORM SEWER RIM TO PROPOSED GRADE (SEE GRADING PLAN)
11. PROPOSED BIO RETENTION AREA
12. PROPOSED SHED RELOCATION (BY OWNER) (CONCRETE PAD BY CONTRACTOR)
13. CONCRETE STAIRS — 4 C102
14. APPROXIMATE BIKE RACK LOCATION (COORDINATE WITH OWNER)

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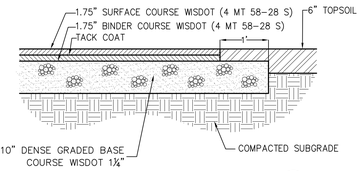
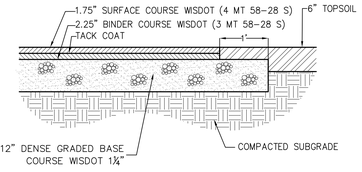
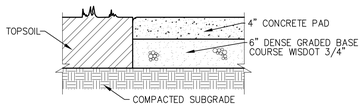


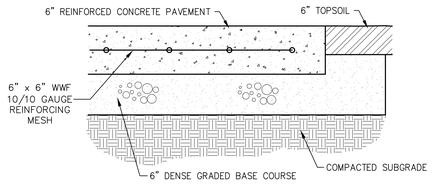
3.5" ASPHALT PAVEMENT (1 C101)



4" ASPHALT PAVEMENT (2 C101)



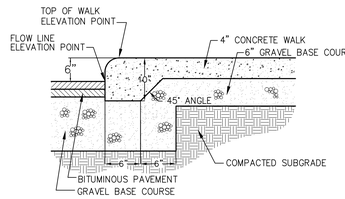
4" CONCRETE PAVEMENT (3 C101)



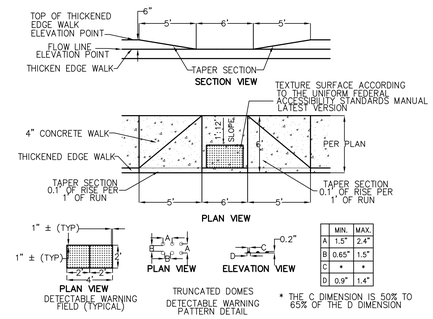
6" REINFORCED CONCRETE PAVEMENT (4 C101)

PROPOSED SITE STATISTICS

ZONING = P-PUBLIC PROPERTIES DISTRICT		TOTAL AREA = 3.872 Acres	
TOTAL IMPERVIOUS & PERVIOUS SURFACES			
BUILDING	CONCRETE WALKS & BITUMINOUS PAVEMENT	GREEN SPACE (GRASS)	GREEN SPACE (WOODS)
0.365 Acre	0.676 Acre	1.947 Acre	0.884 Acre
OR 9% OF TOTAL AREA	OR 18% OF TOTAL AREA	OR 50% OF TOTAL AREA	OR 23% OF TOTAL AREA



THICKENED EDGE WALK (5 C101)

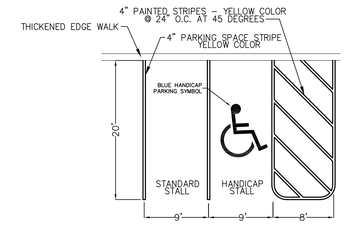


	MIN.	MAX.
A	1.5"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

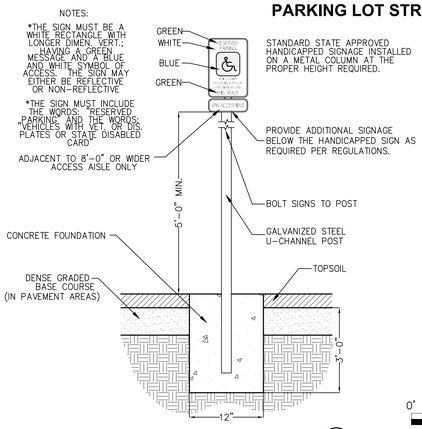
ADA CURB RAMP (6 C101)

SITE PARKING STATISTICS

ZONING DISTRICT	STUDENTS	MIN REQ. STALLS	MAX REQ. STALLS	PROPOSED STALLS	PROPOSED BIKE STALLS
PUBLIC PROPOERTIES	100	34	43	38	5+



PARKING LOT STRIPING (7 C101)



HANDICAP PARKING SIGN (8 C101)

0' 20' 40' 60'
Scale 1"=20'

ARCHITECTURE
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INTERIOR DESIGN

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715.344.9999(Ph) 715.344.9922(Fx)
Point of Beginning

Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: LAYOUT PLAN

POB Project Number: 17.124

Project Date: MARCH 2018

Drawn By: JJL

Certification Stamp:

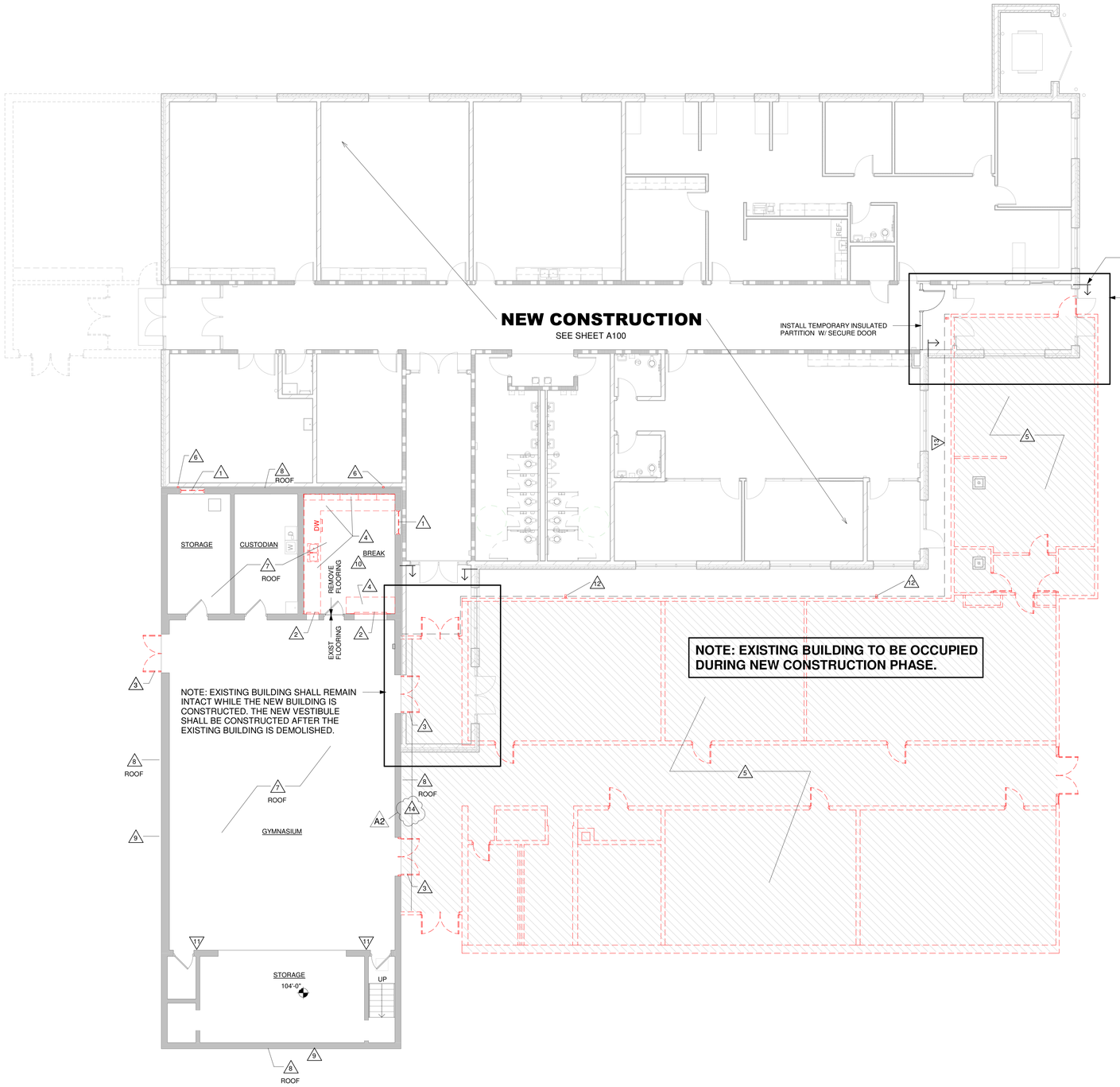
Revisions:

No.	Description	Date
2	ADDENDUM #2	3/21/18

Graphic Scale: 1"=20'

Last Update: 03/8/2018

C101R



1 DEMO PLAN

1/8" = 1'-0"

ASBESTOS ABATEMENT:

UNDER SEPARATE CONTRACT BY THE OWNER'S ABATEMENT CONTRACTOR ACM ABATEMENT WILL BE FULLY COMPLETED PRIOR TO WORK COMMENCING IN AFFECTED AREAS. SEE FULL ACM ABATEMENT REPORT FOR ADDITIONAL INFORMATION.

REMOVAL GENERAL NOTES:

A	ALL STRUCTURES NOTED TO BE REMOVED ON THIS PLAN SHALL BE COMPLETELY REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
B	ITEMS NOTED FOR SALVAGE SHALL BE TURNED OVER TO BUILDING OWNER UNLESS INDICATED TO BE REUSED IN THE NEW LAYOUT.
C	SEE M/E/P SHEETS TO COORDINATE REMOVAL WORK.
D	PREPARATON FOR NEW FINISHES SHALL INCLUDE BUT NOT BE LIMITED TO REMOVAL OF EXISTING FINISHES, TAPES, GLUES (MASTIC), NAILS, ETC. AND PATCHING OF HOLES, CRACKS AND APPLICATION OF LEVELING COMPOUND ON FLOOR TO PROVIDE AN ACCEPTABLE SURFACE FOR NEW FINISH INSTALLATION.
E	ALL LOOSE FURNISHINGS WILL BE REMOVED FROM THE WORK AREAS BY THE OWNER PRIOR TO CONSTRUCTION START
F	COORDINATE POWER, COMMUNICATIONS, WATER, HEATING & AIR CONDITIONING INTERRUPTIONS WITH OWNER.

REMOVAL LEGEND:

EXISTING

EXISTING TO BE REMOVED

SYMBOL INDICATES REMOVAL KEY NOTE.

KEY NOTES REMOVAL

1	REMOVE WINDOW AND FRAME. PREPARE OPENING FOR CMU INFILL.
2	REMOVE CEILING COUNTER DOOR.
3	REMOVE HM DOOR AND FRAME. PREPARE OPENING FOR NEW WORK.
4	REMOVE ALL CASEWORK AND COUNTERS. INCLUDE SINK AND DISHWASHER.
5	REMOVE ENTIRE BUILDING INCLUDING FOUNDATION WALLS & FOOTINGS. NOTE: EXISTING BUILDING TO BE OCCUPIED DURING NEW CONSTRUCTION PHASE.
6	REMOVE EXISTING ROOF SCUPPER / DOWNSPOUT.
7	REMOVE EXISTING ROOFING AND EQUIPMENT. PREPARE FOR NEW TAPERED INSULATION AND ROOF DRAINS.
8	REMOVE GRAVEL STOPS AT ENTIRE PERIMETER OF HIGH AND LOW ROOFS. PREPARE AS REQUIRED FOR NEW BLOCKING AND GRAVEL STOPS.
9	REMOVE BACKBOARDS, ALARMS AND SPEAKERS AS REQUIRED FOR NEW EXTERIOR FINISHES. COORDINATE REINSTALLATION.
10	REMOVE ACOUSTIC TILE CEILING & GRID.
11	SAWCUT OPENING AT TOP OF EXISTING NON-LOAD BEARING CMU WALL FOR HVAC DUCTWORK / GRILLE - COORDINATE WITH MECH
12	CONNECT EXISTING ROOF SCUPPER / DOWNSPOUT TO ABOVE GROUND TEMPORARY DRAINAGE PIPING DURING CONSTRUCTION. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFO.
13	INSTALL GUTTER WITH DOWNSPOUT ON WEST SIDE OF EXISTING SLOPED ROOF. CONNECT DOWNSPOUT TO TEMPORARY DRAINAGE PIPING DURING CONSTRUCTION.
14	CUT EXISTING CONCRETE BEAMS FLUSH WITH EXISTING LOAD BEARING WALL TO PREPARE TO FOR BUILDING ADDITION. DURING PARTIAL BUILDING REMOVAL STRUCTURAL INTEGRITY OF THE EXISTING WALL NEEDS TO BE MAINTAINED.

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Consultant:

Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: REMOVAL PLAN

HSR Project Number: 17057

Project Date: 3-8-18

Drawn By: HSR

Key Plan:

BID DOCUMENTS

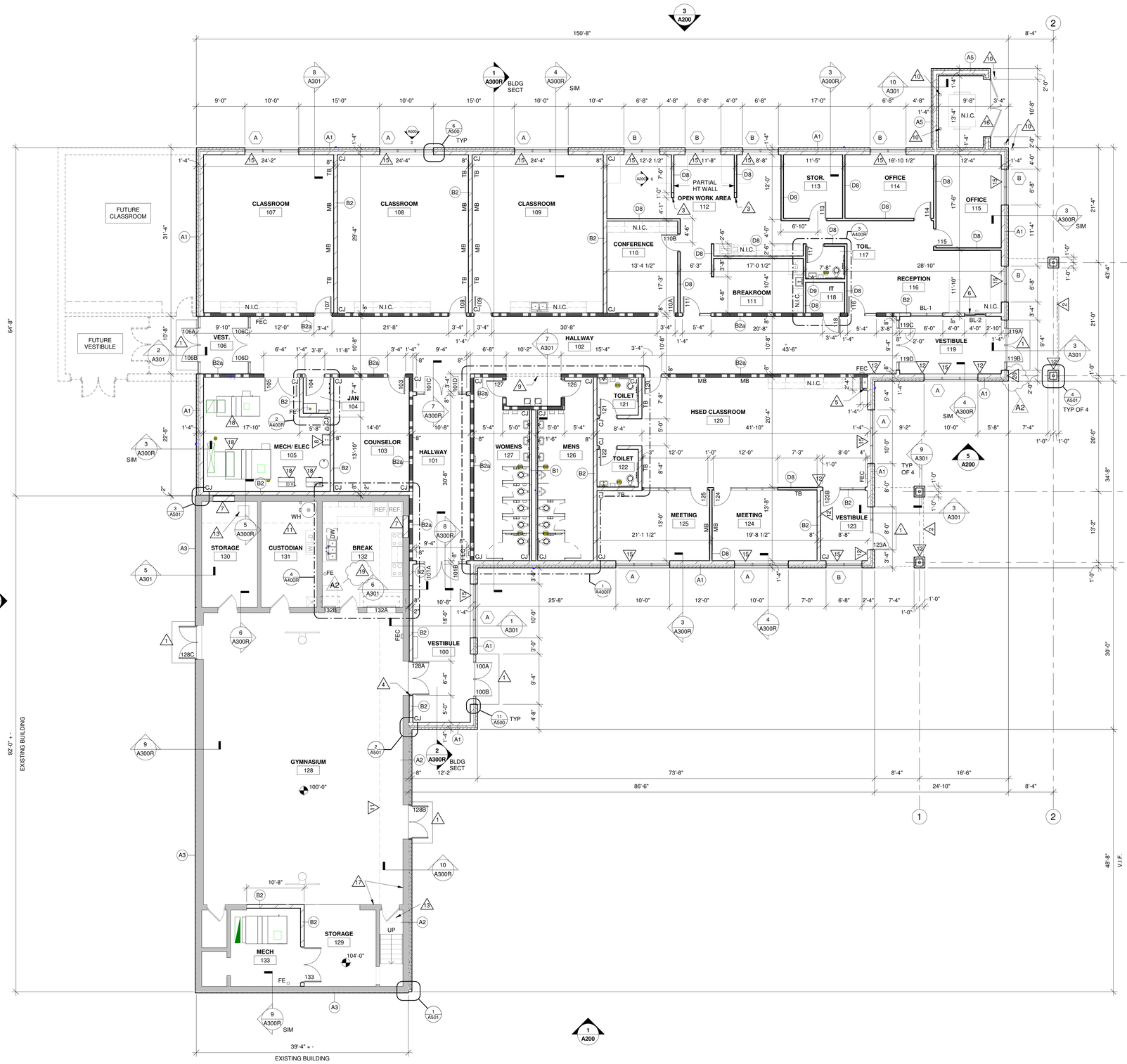
Revisions:

No.	Description	Date
A2	ADDENDUM 2	3-21-18

Graphic Scale: VARIES

Last Update: 3/21/2018 9:45:00 AM

A090R



GENERAL NOTES:

A	SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
B	LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
C	VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENINGS SHALL BE SEALED AFTER UTILITY INSTALLATION.
D	PAINT ALL EXPOSED STEEL LINTELS.
E	INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS W/O TILE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
F	SEE STRUCTURAL FOR SLAB CONTROL JOINTS AND CMU CONTROL JOINTS IN LOAD BEARING CMU WALLS.
G	SEE THIS PLAN FOR CONTROL JOINTS IN NON-LOAD BEARING CMU WALLS. SEE A501 FOR CONTROL JOINT DETAILS. CJ = CONTROL JOINTS
H	REFER TO CODE PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
J	EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE 5A400 FOR TOP OF WALL DETAIL.
K	UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.
L	SEE A500 FOR TYPICAL HEAD FLASHING ISOMETRIC DETAIL.
M	GEN. CONTRACTOR TO PROVIDE CONC. EQUIP. PADS / CURBS AS REQUIRED FOR MECH / ELECTRICAL EQUIP. - VERIFY SIZE / PROFILE / LOCATION WITH MECH / ELECTRICAL.
N	ALL CASEWORK- BY OWNER. GC TO PROVIDE BLOCKING IN STUD WALLS AS REQUIRED.

LEGEND:

- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A400 FOR WALL TYPE DETAILS.
- (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- 1 HOUR WALL
- 2 HOUR WALL
- FEC — FIRE EXTINGUISHER CABINET- SURFACE MOUNTED
- FE — FIRE EXTINGUISHER- BRACKET MOUNTED
- TB — 4' X 4' TACKBOARD MOUNTED @ 84" A.F.F. TO TOP CONTRACTOR FURNISHED / INSTALLED
- MB — 4' X 8' WHITEBOARD MOUNTED @ 84" A.F.F. TO TOP CONTRACTOR FURNISHED / INSTALLED

KEY NOTES PLAN

1	CONCRETE STOOP- SEE STRUCTURAL.
2	LINE OF CANOPY ABOVE.
3	PROVIDE A 1'- 0" LONG FULL HEIGHT WALL @ END OF PARTIAL HEIGHT WALL FOR POWER / DATA & TO BRACE WALL - SEE 6A200 & 6A501
4	ALIGN NEW OPENING WITH EXISTING DOOR LOCATION.
5	RAINWATER LEADER- SEE PLUMBING. ENCLOSE w/ WALL TYPE 'B1'.
6	SLIDING WINDOW.
7	INFILL EXISTING WINDOWS WITH CMU.
8	UTILITY SINK- SEE PLUMBING.
9	LINE OF BULKHEAD ABOVE - SEE 2A110
10	CONCRETE FILLED PIPE BOLLARD - SEE 5A501
11	EXISTING PIPE TUNNEL BELOW
12	POWER DOOR ACTUATOR PUSH BUTTON
13	EXISTING PIPE TUNNEL ACCESS DOOR
14	NOT USED
15	COMPOSITE WINDOW STOOL - ADHESIVE APPLIED - SEAL PERIMETER
16	STEEL TRASH ENCLOSURE GATES - SEE DETAIL 15A501
17	INFILL EXISTING CMU WALL AT FORMER HVAC OPENINGS (SEE MECH) PAINT TO MATCH ADJACENT WALL SURFACE
18	4" HIGH CONCRETE HOUSEKEEPING PADS AT HVAC EQUIPMENT - COORDINATE SIZE AND LOCATION WITH MECH
19	CABINETS AND APPLIANCES (RANGE, REFRIGERATOR AND DISHWASHER) IN BREAK 132 ARE N.I.C. - ICC/ANSI A117.1 SEC. 804 - KITCHENS AND KITCHENETTES ARE REQUIRED TO HAVE ACCESS TO AND COMPLIANT REACH RANGES AT APPLIANCES. WORK SURFACES WHICH ARE COMPLIANT WITH SEC. 902, TURNING SPACE, SINKS WITH A FRONT APPROACH AND STORAGE SPACE ACCESSIBLE AND COMPLIANT WITH REACH RANGES OF SECTIONS 304 AND 308. THOSE SPACES WITH A COOKTOP OR CONVENTIONAL RANGE SHALL BE REQUIRED TO ADDRESS 804.2, 804.3 & 804.4. THE LATTER REQUIRES KNEE CLEARANCE UNDER THE SINK FOR A FRONT APPROACH.
20	RECESSED KNOX BOX (N.I.C.)

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Consultant:

Project Title: **MCKINLEY CHARTER SCHOOL**
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: **1266 MCKINLEY RD**
EAU CLAIRE, WI 54703

Sheet Title: **FIRST FLOOR**

HSR Project Number: **17057**

Project Date: **3-8-18**

Drawn By: **HSR**

Key Plan:

BID DOCUMENTS

Revisions:

No.	Description	Date
A1	ADDENDUM 1	3-14-18
A2	ADDENDUM 2	3-21-18

Graphic Scale: **VARIES**

Last Update: **3/21/2018 10:11:48 AM**

A100R1

1 FLOOR PLAN

1/8" = 1'-0"

FOUNDATION PLAN SHEET NOTES

A. General

1. See Cover Sheet for structural sheet index defining sheet name, sheet number and issue status.
2. See Cover Sheet for Structural Abbreviations, Typical Marks & Symbols and Plan Legends.
3. Review General Structural Notes and typical details in conjunction with applicable plans. See sheet index on Cover Sheet.
4. Coordinate stoop sizes and locations with Architectural and Civil. See typical details for stoop construction.
5. If present, coordinate the sizes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with Architectural, Structural, Mechanical, Civil, and Electrical drawings.
6. Frost protection is required for all foundations if winter conditions are present.
7. Contractor shall coordinate all embedded items required for precast connections. Embedded items shall be provided by precast supplier and installed by concrete contractor.
8. Dimensions shown with +/- indicate dimensions that have been rounded to the nearest 1/16 of an inch.

B. Footings

1. "F-" denotes footing mark. See schedule for size and reinforcing.

   "WF-" denotes wall footing mark See schedule for size and reinforcing.
2. Top of footing elevation (TFE) is shown on plan. See typical detail sheets for stepped footing detail.
3. Locations of footing steps on plan are approximate. Contractor shall verify all step locations with Civil grade elevations to maintain minimum frost depths and all Mechanical, Electrical and Plumbing pipe elevations prior to pouring footings. Coordinate footing step locations with precaster if applicable. See typical detail sheets for pipes perpendicular and parallel to footing.
4. All footings shall be centered below walls, columns and piers unless dimensioned otherwise.
5. Provide dowels to walls, columns and piers above. Hooked dowels shall be tied to footing reinforcing prior to pouring concrete.

F. Concrete Piers

1. "CP-" denotes concrete pier mark. See pier schedule for size and reinforcing.
2. Top of pier elevation (TPE =) is shown on plan.
3. All concrete piers shall be centered on grid intersections unless dimensioned otherwise on plan.

H. Slab On Grade

1. Top of slab elevation (TOSL =) is shown on plan.
2. See Architectural drawings for depressions, slab slopes, finishes and drains.
3. Concrete slab thickness shall be as noted on plan. See Architectural drawings for vapor barrier requirements and geotech report for slab sub-base thickness and material specification.
4. Unless noted otherwise, reinforce slab with 3.0 pounds of macro fiber per cubic yard of concrete. Coordinate finishing requirements with owner. Contractor may substitute 6 x 6 - W1.4 x W1.4 WWF chaired in place 1" below top of slab in lieu of macro fiber.
5. Provide control joints(CJ) and construction joints (CONST JT) in slab. See typical foundation details.
6. Concrete Contractor shall submit location of slab construction joints for review three weeks minimum prior to slab pour.

I. Steel Columns

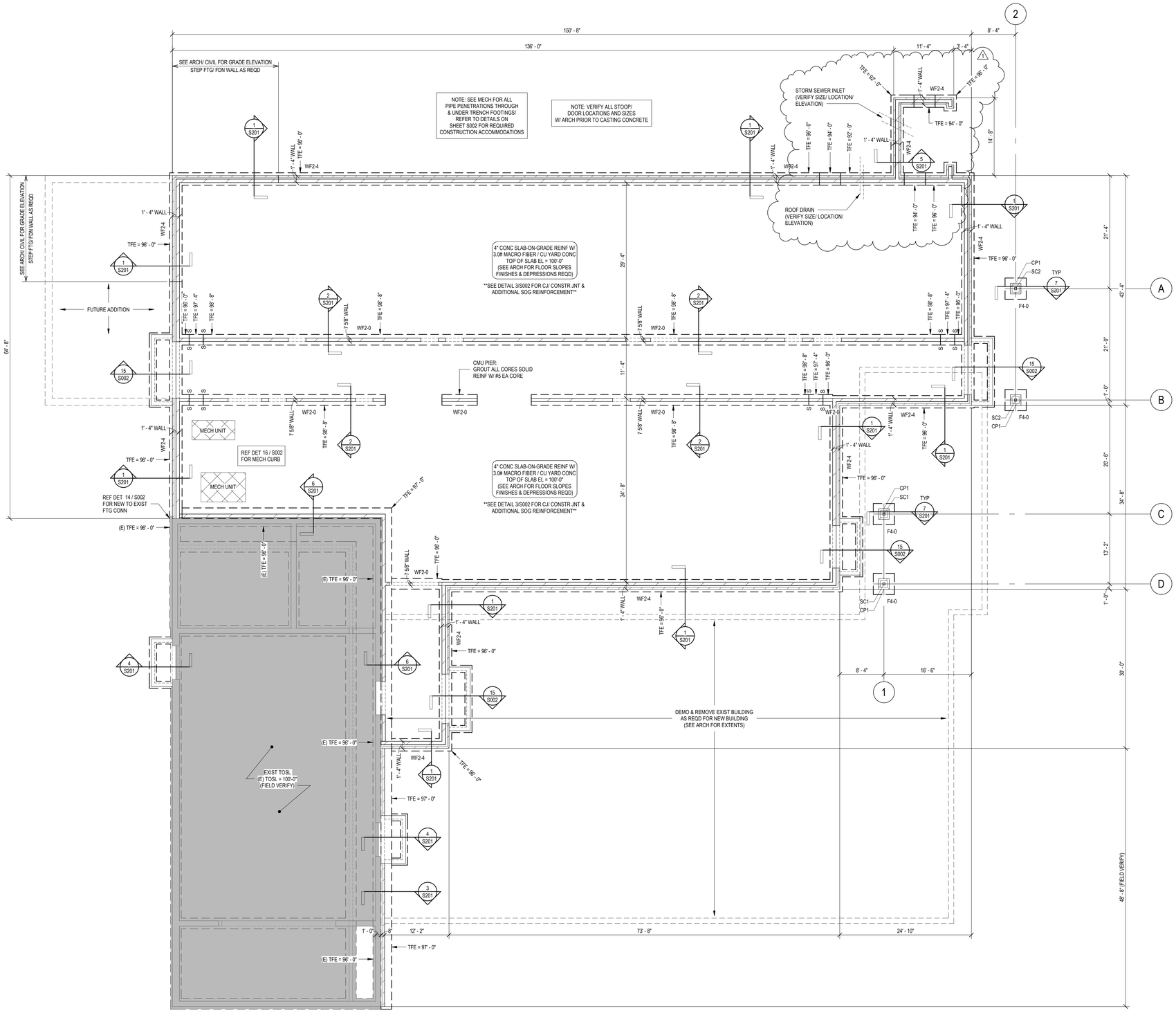
1. "SC-" denotes steel column mark. See column schedule for size, base plate and anchor bolt information.
2. All steel columns shall be centered on grid intersections unless dimensioned otherwise on plan.
3. Steel columns, base plates, and anchor bolts below grade exposed to soil shall be coated with two heavy coats of bitumastic paint.

L. CMU Walls

1. "CMU-" denotes CMU wall reinforcing mark. See schedule and typical detail sheets for additional reinforcing requirements.
2. See Architectural for masonry control joint spacing. Locate control joints a minimum of 24" from the edges of all openings.
3. See Architectural drawings for non-load bearing CMU wall thickness and locations. See typical detail sheets for non-load bearing CMU details.
4. Coordinate all exterior wall finish ledge elevations for brick, stone, etc. with architectural drawings.

M. Concrete Walls

1. See wall schedule for reinforcing. Provide additional reinforcing per typical details.
2. See typical details for concrete wall construction joint spacing requirements.
3. See shear wall elevation sheets and details for reinforcing required.
4. Coordinate all exterior wall finish ledge elevations for brick, stone, etc. with architectural drawings.



1 S110R FOUNDATION PLAN — 1/8" = 1'-0"

NORTH

NOTES:
1. SEE S000 SERIES SHEETS FOR GENERAL STRUCTURAL NOTES, TYPICAL DETAILS, NOTES & SCHEDULES.

INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.

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Structural Engineers

Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: FOUNDATION PLAN

ERA Project Number: 2017-756

Project Date: 02/28/2018

Drawn By: CS

Key Plan:

BID DOCUMENTS

Project Status

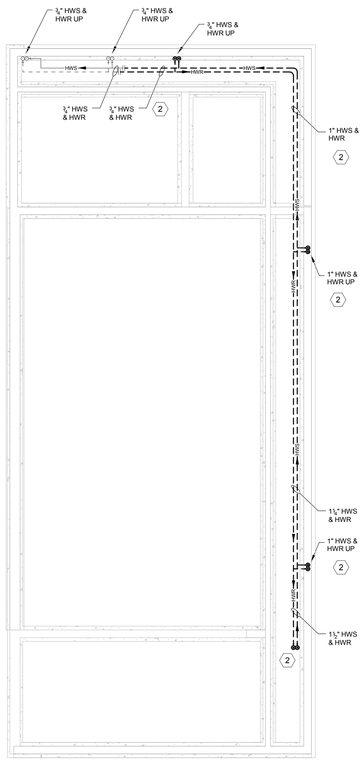
Revisions:

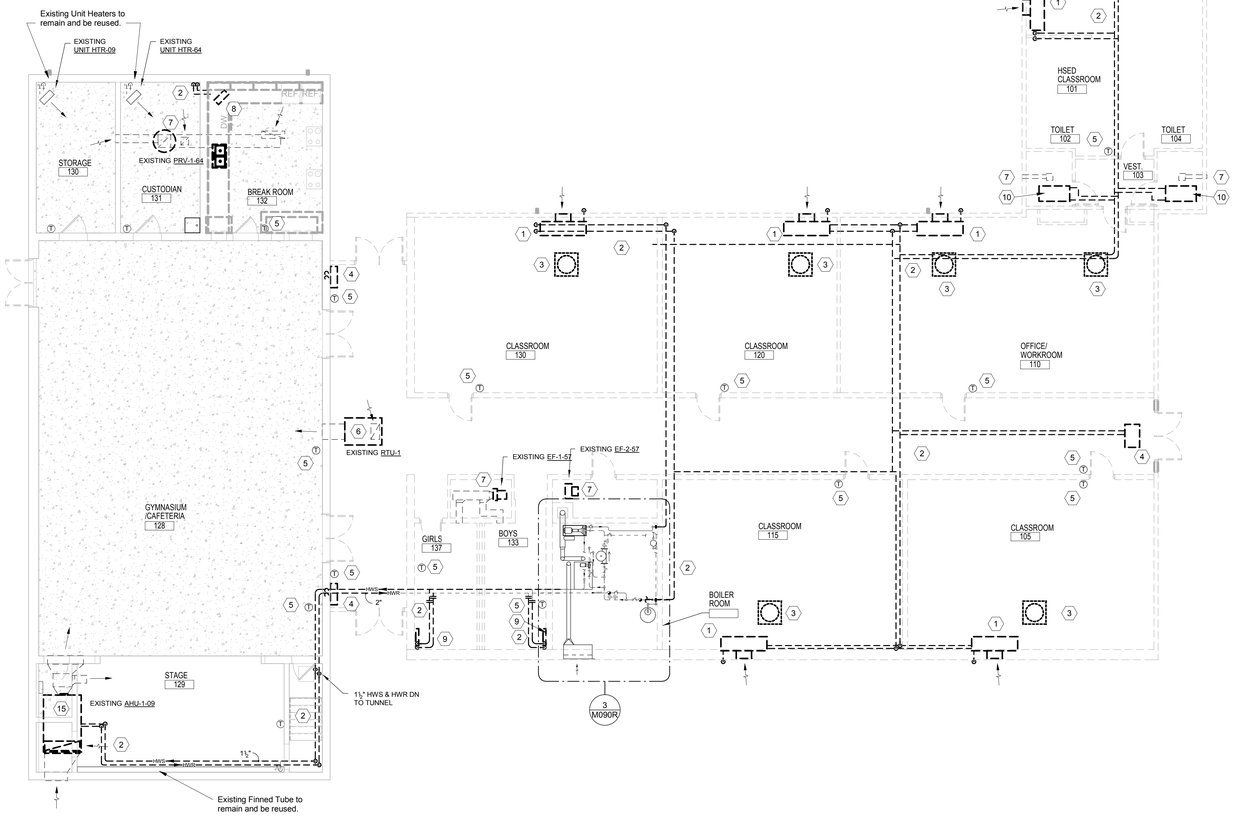
No.	Description	Date
1	Addendum 2	3-21-2018

Graphic Scale: VARIES

Last Update: 3/16/2018 9:10:26 AM

S110R





NORTH

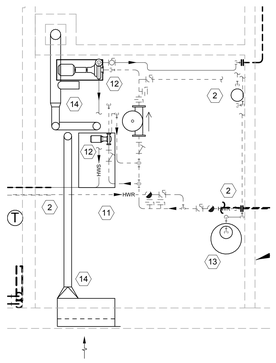
2 MECHANICAL PIPING REMOVAL TUNNEL PLAN

1/8" = 1'-0"

NORTH

1 MECHANICAL REMOVAL PLAN

1/8" = 1'-0"



NORTH

3 ENLARGED BOILER ROOM REMOVAL PLAN

1/4" = 1'-0"

KEYNOTES - REMOVAL

Keynote Number	Keynote Description
1	Remove and dipose of Classroom UV.
2	Heating Water piping to be removed and disposed of.
3	Remove condensing unit located on roof and turn over to Owner.
4	Remove and dispose of cabinet heater.
5	Remove and dispose of thermostat.
6	Remove and dispose of Rooftop Unit.
7	Remove and dispose off exhaust fan and associated ductwork.
8	Remove and dispose of Unit Heater.
9	Remove and dispose of Convector.
10	Remove and dispose off Ceiling Radiant Panel.
11	Remove and dispose of Boiler.
12	Remove Pumps and turn over to Owner.
13	Expansion Tank to be removed and turned over to Owner.
14	Flue and combustion air to be removed and disposed of.
15	Remove Air Handling Unit and turn over to Owner..

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Consultant:

Project Title: **MCKINLEY CHARTER SCHOOL**
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: **1266 MCKINLEY RD**
EAU CLAIRE, WI 54703

Sheet Title: **MECHANICAL REMOVAL PLANS**

HSR Project Number: **17057**

Project Date: **3-08-18**

Drawn By: **S Kelly**

Key Plan:

BID DOCUMENTS

Revisions:

No.	Description	Date
A2	Revision 2	3-21-2018

Graphic Scale: **VARIES**

Last Update: **3/21/2018 10:16:38 AM**

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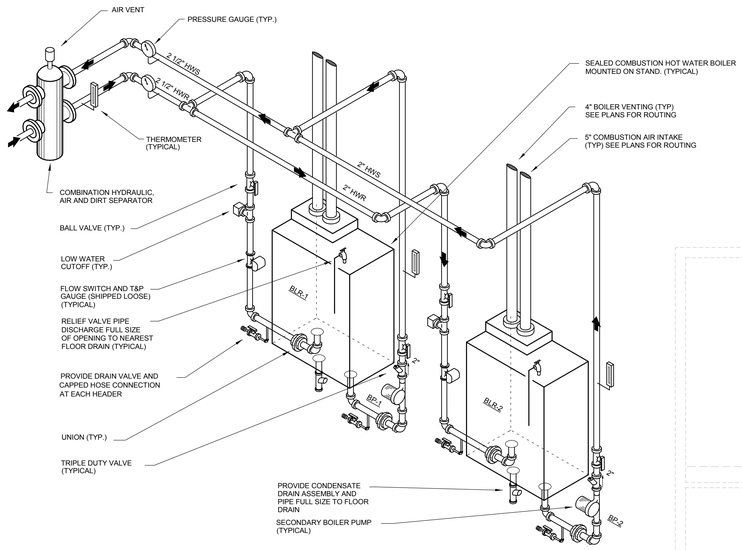
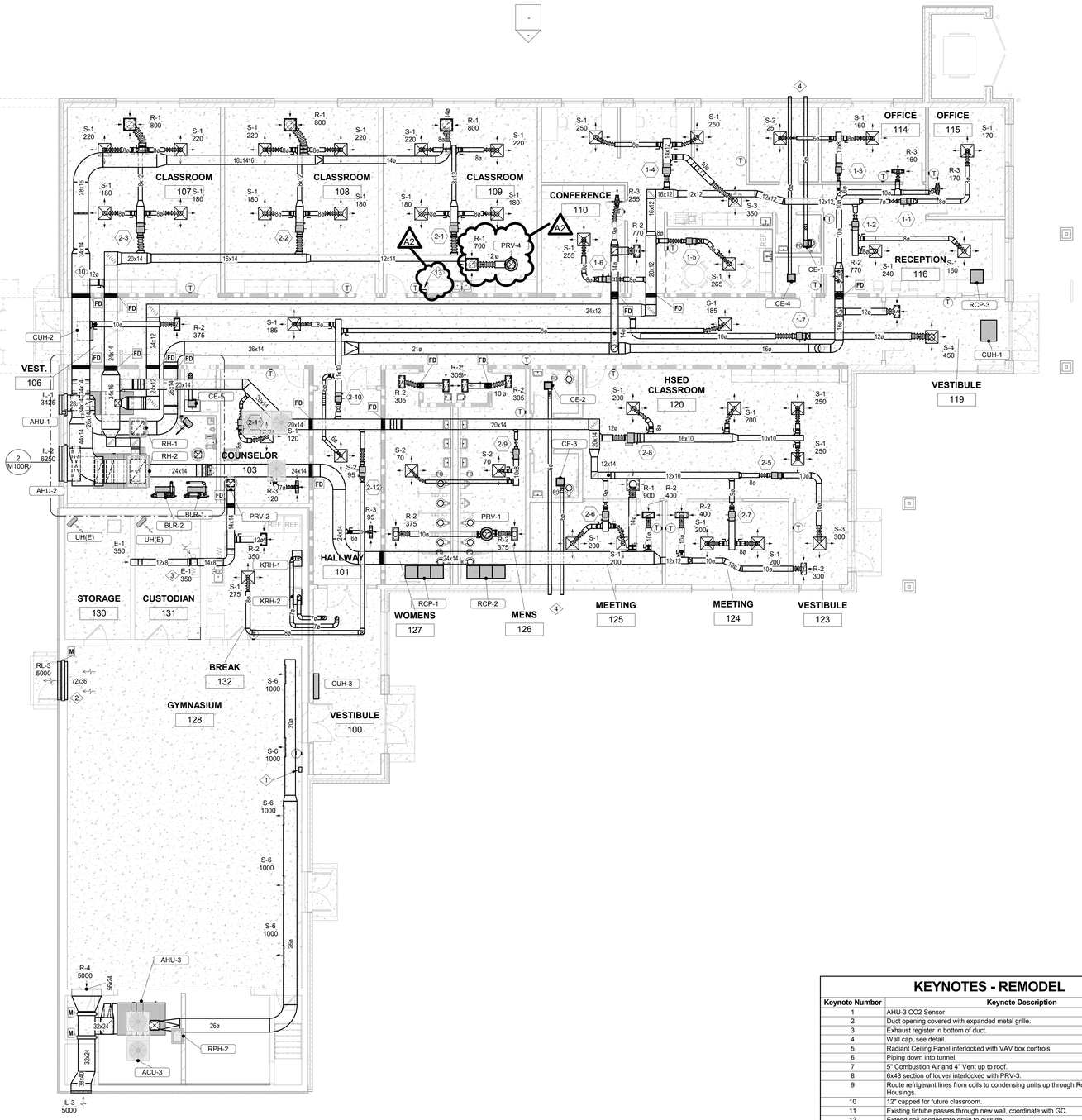
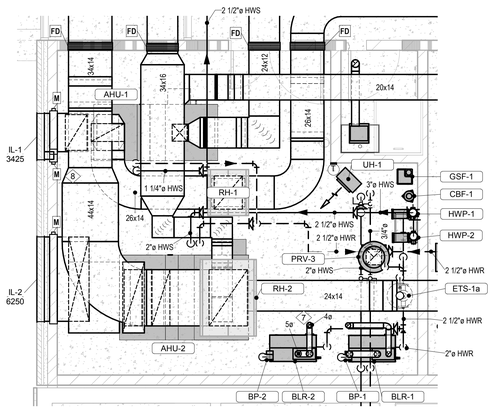


3 BOILER PIPING ISOMETRIC

N.T.S.





2 ENLARGED MECHANICAL ROOM PLAN

1/4" = 1'-0"

1 MECHANICAL VENTILATION REMODEL PLAN

1/8" = 1'-0"

KEYNOTES - REMODEL

Keynote Number	Keynote Description
1	AHU-3 CO2 Sensor
2	Duct opening covered with expanded metal grille.
3	Exhaust register in bottom of duct.
4	Wall cap, see detail.
5	Radiant Ceiling Panel interlocked with VAV box controls.
6	Piping down into tunnel.
7	5" Combustion Air and 4" Vent up to roof.
8	6x48 section of louver interlocked with PRV-3.
9	Route refrigerant lines from coils to condensing units up through Roof Penetration Housings.
10	12" capped for future classroom.
11	Existing fintube passes through new wall, coordinate with GC.
12	Extend coil condensate drain to outside.
13	PRV-4 speed control switch.

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Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: MECHANICAL VENTILATION REMODEL PLAN

HSR Project Number: 17057

Project Date: 3-08-18

Drawn By: S Kelly

Key Plan:

BID DOCUMENTS

Revisions:

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A2	Revision 2	3-21-2018

Graphic Scale: VARIES

Last Update: 3/21/2018 10:16:44 AM

M100R

EXPANSION TANK SYSTEMS (232117)

MARK	SYSTEM	APPROX. SYS. VOL. GAL.	SYSTEM TEMP.		PSIG		MAX. PRESS.		MIN. VOL.		AIR SEPARATOR				PIPE SIZE			REMARKS
			MIN.	MAX.	INITAL SYS. FILL	TANK	RELIEF VALVE	TANK	TANK GAL.	ACCEPT GAL.	SIZE	GPM	Cv	BUILT-IN STRAINER	TO TANK	GLYCOL FILL		
ETS-1	Heating	300	60	140	15.5	12	30	33.5	29.6	12	3"	90		YES	1"	3/4"		1

Based on products by BELL & GOSSETT and CALEFFI #N/A

Equal tanks by WESSELS, ARMSTRONG, TACO or AMTROL are acceptable. 3/2/2018 7:43

Equal air separators by TACO, ARMSTRONG, WESSELS or SPIROVENT are acceptable.

REMARKS:

1. Bladder Type Expansion Tank B&G model # B-130LA. Tank to include: charging valve and drain. ASME with replaceable bladder. Caleffi 549 HydroCAL combination hydraulic, air and dirt separator. Automatic air release valve, drain valve and insulation.

GLYCOL SYSTEM FEEDERS (232123)

MARK	MODEL No.	SYSTEM	CIRC FLUID	GPM @ FREE FLOW	GPM @ 50 PSI	MAX TEMP	TANK SIZE	ELECTRICAL WATTS	ELECTRICAL VOLT/PH	OPTIONS/ ACCESSORIES	REMARKS
GFS-1	MF300	Heating Water	30% P.G.	0.7			17 Gallon	50	115/1	1 thru 6	A, B

Based on products by AXIOM. #N/A

Equal products by Wessels, J.L. Wingert and Neptune are acceptable. 2/28/2018 12:56

OPTIONS/ACCESSORIES:

1. Pump suction hose with strainer.
2. Pressure pump with thermal cut-out.
3. Integral pressure switch and check valve.
4. Adjustabe pressure regulating valve.
5. Pre-charged accumulator tank with EPDM diaphragm
6. Pressure gauge and pressure switch with dry contact.

REMARKS:

A. High impact polystyrene mixing and storage tank and lid.
B. 3-prong plug and cord.

HVAC PUMPS (232123)

MARK	MODEL No.	SYSTEM	TYPE	CIRCULATING FLUID FLUID	GPM	FT HD	cP	MAX. HD. **	NPSH	% EFF	IMP. DIA.	MOTOR BHP	HP	RPM	VOLT/PH	ACCESS.	REMARKS
HWP-1 & 2	B&G E-90 2AB	Heating Water	Inline	30% PG	90	45	---	49	8.22	71.2	6 3/4		3	1725	208/3	1, 2 3, 4	A, B, C
BP-1 & 2	B&G PL-130	Boiler Circ	Perm. Lub. Circ	30% PG	31	15	---	---	---	---	---	---	1/6	3200	115/1		A

Based on products by BELL & GOSSETT. ** Maximum head in feet @ shutoff. #N/A

Equal products by GRUNDFOS, ARMSTRONG and TACO are acceptable. 3/15/2018 16:11

ACCESSORIES:

1. Differential Pressure Gauge.
2. Balance for Variable Frequency Drive.
3. Pump discharge check valve and balancing valves.
4. Venturi with measurement ports.

REMARKS:

A. Motor selected as non-overloading.
B. Standby (alternating) operation.
C. VFD control pressure, ___ PSI.

FANS - CABINET/CEILING EXHAUST (233416)

MARK	MANUFACTURER'S MODEL NO.	SERVING/ LOCATION	CFM	TOT. S.P.	TYPE	SONES	CONTROL/ INTERLOCK	FAN RPM	FAN DRIVE	ELECT. WATTS	ELECT. VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
CE-1	SP-B110	Toilet 117	95	0.25	Ceiling	2	AHU-1	950	Direct	80.2	115/1	1,2,4	
CE-2	SP-B110	Toilet 121	95	0.25	Ceiling	2	AHU-2	950	Direct	80.2	115/1	1,2,4	
CE-3	SP-B110	Toilet 122	95	0.25	Ceiling	2	AHU-2	950	Direct	80.2	115/1	1,2,4	
CE-4	SP-B150	IT 118	150	0.25	Ceiling	3	Reverse T-stat	1050	Direct	128	115/1	1,2,4	
CE-5	SP-B110	Jan 104	95	0.25	Ceiling	2	AHU-2	950	Direct	80.2	115/1	1,2,5	

Based on products by GREENHECK #N/A

Equal products by Penn and Cook are acceptable. 3/2/18 7:43

ACCESSORIES/OPTIONS:

1. Integral Plug-In Disconnect & Backdraft Damper.
2. Rubber Isolators.
3. Control Switch
4. Wall Cap.
5. Roof Jack.

REMARKS:

A.

FANS - POWER ROOF VENTILATORS (233423)

MARK	MANUFACTURER'S MODEL NO.	SERVING/ LOCATION	CFM	TOT. S.P.	TYPE	OPENING SIZE	FAN RPM	FAN DIA.	FAN DRIVE	ELECT. H.P.	ELECT. VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
PRV-1	G-103-VG	Tlt 126 & 127	750	0.375	Cent. Roof	14.5" Sq	Variable	10"	Direct	VG-1/4	115/1	1,2,3,4	A
PRV-2	G-123-VG	130, 131, 132	1050	0.375	Cent. Roof	14.5" Sq	Variable	12"	Direct	VG-1/4	115/1	1,2,3,4	B
PRV-3	G-103-VG	Mech/Elect 105	850	0.25	Cent. Roof	14.5" Sq	Variable	10"	Direct	VG-1/4	115/1	1,2,3,4	C
PRV-4	G-103-VG	Classroom 109	700	0.375	Cent. Roof	14.5" Sq	Variable	10"	Direct	VG-1/4	115/1	1,2,4,5	D

Based on products by GREENHECK #N/A

Equal products by Penn and Cook are acceptable. 3/21/18 9:30

ACCESSORIES/OPTIONS:

1. Roof curb.
2. Disconnect switch.
3. Vari-Green speed control for balancing.
4. Gravity backdraft damper.
5. Variable speed wall switch.

REMARKS:

A. Fan speed 1189 RPM, Interlock with AHU-2. Aproximately 55 lbs.
B. Fan speed 1108 RPM, Interlock with existing AHU-3. Approximately 60 lbs.
C. Fan speed 1190 RPM Interlock with reverse acting thermostat and MOD in IL-2. Aproximately 55 lbs.
D. Fan speed 1148 RPM, Controlled with a variable speed wall switch. Aproximately 55 lbs.

VAV AIR TERMINAL UNITS (233600)

MARK VAV-	AREA SERVED	PLAN CFM ***	DUCT RUNOUT SIZE	TERMINAL UNIT INLET SIZE	INLET S.P.	COOLING CFM * MAX	COOLING CFM * MIN	MAX. PD** **	COIL DATA (based on PLAN CFM) MBH	ROWS	30% PG / WATER GPM	PD'	E.W.T.	E.A.T.	L.A.T. REQ.	PIPING RUNOUT SIZE	CONTROL VALVE	ACCESS./ REMARKS
1-1	Office 115	170	7	5	0.25	185	70	0.05	9.1	2-10	3	1.04	160	60	110	3/4"	2-Way	1, A
1-2	Reception 116	400	8	8	0.31	440	160	0.11	10.7	1-12	1	0.89	160	60	85	1/2"	2-Way	1, A
1-3	Office 114	185	6	5	0.26	205	75	0.06	10.3	2-10	3	1.04	160	60	112	3/4"	3-Way	1, A
1-4	Open Area 112	850	10	10	0.45	935	340	0.25	22.6	2-10	2	0.52	160	60	85	3/4"	2-Way	1, A
1-5	Break Room 111	265	8	6	0.24	290	105	0.04	6.5	1-10	1	0.64	160	60	83	1/2"	2-Way	1, A
1-6	Conference 110	255	8	6	0.24	280	100	0.04	6.4	1-10	1	0.64	160	60	83	1/2"	2-Way	1, A
1-7	Vestibule 119	450	10	8	0.55	495	180	0.35	24.0	3-10	3	1.52	160	60	109	3/4"	2-Way	1, A
2-1	Classroom 109	800	12	10	0.43	880	320	0.23	23.2	2-10	2	0.52	160	60	87	3/4"	2-Way	1, B
2-2	Classroom 108	800	12	10	0.43	880	320	0.23	23.2	2-10	2	0.52	160	60	87	3/4"	2-Way	1, B
2-3	Classroom 107	800	12	10	0.57	880	320	0.37	27.0	2-12	2	0.64	160	60	91	3/4"	2-Way	1, B
2-4	Future Classroom	850	12	10	0.61	935	340	0.41	29.0	2-12	2.3	0.85	160	60	92	3/4"	2-Way	1, B,C
2-5	Vestible 123	300	8	6	0.42	330	120	0.22	16.6	2-12	3.1	1.54	160	60	111	3/4"	3-Way	1, B,D
2-6	Meeting 124	400	9	8	0.33	440	160	0.13	11.9	2-10	1	0.33	160	60	88	1/2"	2-Way	1, B
2-7	Meeting 125	400	9	8	0.33	440	160	0.13	12.2	2-10	1	0.33	160	60	88	1/2"	2-Way	1, B
2-8	HSED Class 120	900	12	12	0.36	990	360	0.16	25.6	2-10	2	0.58	160	60	86	3/4"	2-Way	1, B
2-9	Mens & Womens	140	6	4	0.27	155	55	0.07	8.8	2-12	1	0.17	160	60	118	1/2"	2-Way	1, B,D
2-10	Hallway 101 & 102	465	10	9	0.35	510	185	0.15	21.6	2-12	2	0.64	160	60	103	3/4"	2-Way	1, B
2-11	Counselor 103	120	6	4	0.23	130	50	0.03	6.6	2-10	1	0.23	160	60	111	1/2"	2-Way	1, B
2-12	Break Room 132	275	8	6	0.25	305	110	0.05	6.8	1-10	1	0.64	160	60	83	1/2"	2-Way	1, B
AHU-1 System Totals =		2575			0.55	2830	1030		302.1		34.4	1.54						#N/A
AHU-2 System Totals =		6250			0.61	6875	2500					MAX.		17.6 deg. Aver. delta T.				3/15/18 16:03

Based on TITUS Model DESV

ACCESSORIES:

1. Access panel in bottom or side of box.

REMARKS:

A. Served by AHU-1
B. Served by AHU-2
C. Future
D. Axillary Heat in zone.

* 110% Max. and 40% Min.of plan CFM = cooling CFM.
** Press. Diff. Between inlet and discharge including coil.
*** Use PLAN CFM for heating CFM.

ROOF HOODS (233723)

MARK	MANUFACTURER'S MODEL NO.	SERVING	THROAT WID.	THROAT LEN.	HOOD WID.	HOOD LEN.	HOOD SF	APPL.	CFM	VELOCITY (FPM) HOOD	VELOCITY (FPM) THROAT	MAX P.D. "	CONSTR.	ACCESSORIES/ OPTIONS	REMARKS
RH-1	Fabra Hood - Gavity	AHU-1	22	26	32	36	4.03	RELIEF	2575	639	648	0.06	Aluminum	2, 3, 4, 5	A, B
RH-2	Fabra Hood - Gavity	AHU-2	30	44	44	60	9.17	RELIEF	6250	682	682	0.06	Aluminum	2, 3, 4, 5	A, C

Based on products by GREENHECK. #N/A

Equal products by Penn and Cesco are acceptable. 3/6/18 7:39

ACCESSORIES/OPTIONS:

1. Insect Screen.
2. Bird Screen and 0.5" internal insulation.
3. 12" Roof Curb.
4. Motorized damper in throat.
5. 5" base.

REMARKS:

A. Ducted.
B. Approximately 105 lbs.
C. Approximately 155 lbs.

WALL LOUVERS (233101)

MARK	MANUFACTURER'S MODEL NO.	SERVING	DIMENSIONS IN INCHES WIDTH	HGT.	DEPTH	F. A. SQ FT	APPL.	CFM	MAX P.D. "	CONSTR.	ACCESSORIES/ OPTIONS	REMARKS
IL-1	ESD-635	AHU-1 & PRV-3	36	48	6	6.91	Intake	3425	0.04	Aluminum	1, 3, 4, 5	A, B
IL-2	ESD-635	AHU-2	66	48	6	12.84	Intake	6250	0.04	Aluminum	1, 3, 4, 5	A
IL-3	ESD-435	AHU-3	38	40	4	5.60	Intake	5000	0.04	Aluminum	1, 3, 4, 5	A
RL-3	ESD-635	AHU-3	72	36	6	10.14	Relief	5000	0.03	Aluminum	1, 3, 4, 5	A

Based on products by GREENHECK. #N/A

Equal products by American Warning and Ventilating, Arrow and Cesco are acceptable. 3/2/18 7:43

ACCESSORIES/OPTIONS:

1. Bird Screen
2. Flange Frame
3. Channel Frame
4. Baked enamel finish
5. Weather proof with downspouts and gutters.

REMARKS:

A. Color selected by owner.
B. 30x48 serves AHU-1, 6x48 serves PRV-3.

KITCHEN RANGE HOODS - RESIDENTIAL (233813)

MARK	MANUFACTURER'S MODEL NO.	CFM	SONES	TYPE	LOCATION	DIST. ABOVE SURFACE	DIMENSIONS LEN.	HGT.	DEPTH	EXHAUST	ACCESSORIES/ OPTIONS	REMARKS
KRH-1	Broan EVOLUTION QP130SS	110 / 300	0.8 / 5	Under Cab.	Break Room 132		30"	6-3/4"	20-1/8"	7" Dia.	1 thru 5	A
KRH-2	Broan EVOLUTION QP130SS	110 / 300	0.8 / 5	Under Cab.	Break Room 132		30"	6-3/4"	20-1/8"	7" Dia.	1 thru 5	A

Based on products by BROAN. #N/A

Equal products by Aero-Tech and Sterling are acceptable. 2/28/18 12:56

ACCESSORIES/OPTIONS:

1. Stainless Steel Construction.
2. Four 35W Halogen lamps, two-level control.
3. Aluminum mirco-mesh filters filters.
4. Two speed fan.
5. Ducted / non-ducted convertible..

REMARKS:

A. Single fan, 120V/1 2.3 amps.

BOILERS - HIGH EFFICIENCY (235233)

MARK	MANUFACTURER MODEL NO.	TOTAL MBH INPUT	TOTAL MBH OUTPUT	MINIMUM GPM *	MINIMUM RET. TEMP.	% EFF	PIPE CONN. SIZE SUP.	PIPE CONN. SIZE RET.	VENT SIZE Intake	VENT SIZE Exhaust	GAS PRESSURE Min.	GAS PRESSURE Max.	TYPE	ACCESS./ OPTIONS	REMARKS
BLR-1	CM-500	500.0	460.0	31		92	1-1/2"	1-1/2"	5"	4"	6"	14"	Aluminum	1,2,3	A,B,C
BLR-2	CM-500	500.0	460.0	31		92	1-1/2"	1-1/2"	5"	4"	6"	14"	Aluminum	1,2,3	A,B,C

Based on products by PK MACH. * at 30 delta T. #N/A

Equal products by other manufacturers are acceptable. 2/28/18 12:56

ACCESSORIES/OPTIONS:

1. ASME Boiler Certification..
2. Flow Switch
3. Temperature/Pressure gauge.

REMARKS:

A. Burner gas train and control wiring shall be the responsibility of the Mechanical Cont'r.
B. 120/1, 15 amp electrical power required.
C. Operating weight 313 Lbs, 1.58 gallon water content.

AIR COOLED CONDENSING UNITS (236213)

MARK	MODEL No.	SERVING SYSTEM	TOTAL MBH *	MAX. SST	O.A.T. TEMP.	STEPS/ SPEEDS	NO. COMP	REFRIG TYPE	MIN. EER	ELECT. KW	ELECT. MCA	ELECT. VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
ACU-1	TTA-073	AHU-1	77	45	95	2	2	R-410a	12.5		24	208/3	1 thru 8	A, B, C, F
ACU-2	TTA-240	AHU-2	256	45	95	2	2	R-410a	12.1		98	208/3	1 thru 8	A, B, D, F
ACU-3	TTA-240	AHU-3	256	42	95	2	2	R-410a	12.1		98	208/3	1 thru 8	A, B, E, G

Based on products by TRANE. * AT 95 deg. F O.A.T. #N/A

Equal products by Aaon, Daikin and Carrier are acceptable. 3/15/2018 16:01

ACCESSORIES/OPTIONS:

1. Unit used.
2. Low ambient heater.
3. Time delay timer on compressor start.
4. Low ambeint kit to allow operation down to 45 deg.
5. Refrigerant line set.
6. Refrigerant service valves, high and low pressure switches.
7. Condenser coil hail guard.
8. Separate insulated compressor compartment.

REMARKS:

A. Wo Refrigerant Piping.
B. Unit mounted on equipment rails on roof.
C. System IEER 10.1 , MOP 125 A. weight 1,045 lb.
D. System IEER 11.1 , MOP 125 A. weight 762 lb.
E. System IEER 11.1 , MOP 125 A. weight 762 lb.
F. Route refrigerant circuit piping up through roof through RPH-1.
G. Route refrigerant circuit piping up through roof through RPH-2.

CENTRAL STATION AIR HANDLING UNITS (237323)

MARK	MANUFACTURER'S MODEL NO.	SERVING/ LOCATION	CFM	EXT S.P.	% O.A.	FAN RPM	FAN SIZE	FAN TYPE	FAN DRIVE	COILS HEAT	COILS COOL	MOTOR HP	MOTOR VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
AHU-1	CSAA-06	Office Area	2575	2	14	1761	10"	FC	Belt	HC-1	DX-1	3	208/3	1, 2, 3, 4, 5	A
AHU-2	CSAA-12	Classrooms	6250	2	28	2399	15"	AF	Belt	HC-2	DX-2	7 1/2	208/3	1, 2, 3, 4, 5	B
AHU-3	CSAA-10	Gym	5000	1.5	46	1362	15"	FC	Belt	HC-3	DX-3	7 1/2	208/3	1, 2, 3, 5	C

Based on products by TRANE. #N/A

Equal products from other manufacturers are acceptable. 3/5/2018 7:43

ACCESSORIES/OPTIONS

1. Angled filter section with 2" pleated 35% filters.
2. Mixing box section, opposed blade dampers less actuator.
3. Coil and access section.
4. VAV fan with VFD shipped loose for field mounting.
5. Disconnect.

REMARKS:

A. Vertical Unit, fan discharge - Top Back, 19.0 MCA, Fuse size 30 A.
B. Vertical Unit, fan discharge - Top Back, 35 MCA, Fuse size 60 A.
C. Vertical Unit, fan discharge - Top Back, 28 MCA, Fuse size 50 A.

AHU DX COOLING COILS (237500)

MARK	COIL SIZE	AIR UNIT	COND. UNIT	CFM	MAX. PD "	MAX. FV	EAT DB	EAT WB	LAT DB	LAT WB	MBH CAPACITY TOTAL	MBH CAPACITY SENS.	REFRIGERANT TYPE	REFRIGERANT SST	REFRIGERANT LIQ. T	COIL TYPE	COIL FPF	COIL ROWS	ACCESSORIES REMARKS
DX-1	26" x 34"	AHU-1	ACU-1	2575	0.412	426	77.0	64.7	56.2	54.9	76.2	58.68	R-410a	45	115	3F	113	4	
DX-2	32" x 55"	AHU-2	ACU-2	6250	0.488	516	78.9	66.4	56.5	54.8	223.3	153.57	R-410a	45	115	3F	99	4	
DX-3	28" x 50"	AHU-3	ACU-3	5000	0.648	514	79.3	66.7	53.8	52.8	210.7	140.06	R-410a	45	115	3F	88	6	

Based on products by TRANE. #N/A

Equal products from other manufacturers are acceptable. 2/28/18 12:56

ACCESSORIES/OPTIONS:

1.
2.
3.

REMARKS:

A.
B.

Entering Air Temps. are based on	DB	WB
RAT	**75**	**63**
OAT	**89**	**75**

AHU WATER HEATING COILS (237500)

MARK	COIL SIZE	UNIT	CFM	MAX. PD "	MAX. FV	EAT	LAT	TOT. MBH	30% PG / WATER GPM	ENT	LVG	PD. FT	COIL TYPE	COIL FPF	COIL ROWS	ACCESSORIES/ OPTIONS	REMARKS
HC-1	24" x 32"	AHU-1	2,575	0.128	483	57.5	91.1	93.7	9.9	160	140	0.93	SW	146	1		
HC-2	30" x 55"	AHU-2	6,250	0.179	508	44.8	91.9	319.5	33.7	160	140	1.63	UW	111	2		
HC-3	27" x 49"	AHU-3	5,000	0.33	544	32.1	94	335.7	25.36	160	132	0.75	W	144	3		

Based on products by TRANE. #N/A

Products by other manufactures are acceptable. 2/28/18 12:57

ACCESSORIES/OPTIONS:

1.
2.
3.

REMARKS:

A.
B.
C.

Enteri... are...	DB	WB
RAT	**70**	56
OAT	**-20**	-19

RADIANT CEILING PANELS (238101)

MARK	MANUFACTURER'S MODEL NO.	QUANTITY	PANEL SIZE	PANEL TYPE	ROOM TEMP	BTUH EACH	MIN. WATER GPM	WATER EWT	WATER LWT	WATER PD. FT	ACCESSORIES/ OPTIONS	REMARKS
RCP-1	HPH	3	24"x24"	Tegular	70	615	0.5	160	152	0.36	1, 2, 3, 4	A, B
RCP-2	HPH	3	24"x24"	Tegular	70	615	0.5	160	152	0.36	1, 2, 3, 4	A, B
RCP-3	HPH	1	24"x24"	Tegular	70	615	0.5	160	157	0.12	1, 2, 3, 4	A, B

Based on products by AIRTEX. #N/A

Equal products by Aero-Tech and Sterling are acceptable. 3/6/18 7:39

ACCESSORIES/OPTIONS:

1. Provide Isolation valves, P/T plugs on each circuit.
2. Provide control valve and calibrated balancing valve on each circuit.
3. Backs of all panels shall be covered with 1" of 3/4 lbs density fiberglass insulation.
4. Silkscreen panel to match adjacent acoustic tile.

REMARKS:

A. Capacity based on perimeter location and 155 deg. F mean water temperature.
B. See piping detail on plans.

CABINET HEATER - HOT WATER (238101)

MARK	MANUFACTURER'S MODEL NO.	LOCATION	STYLE	CFM	MBH	EAT	LAT	HEATING COIL EWT	HEATING COIL LWT	HEATING COIL GPM	ELECT. PD.FT.	ELECT. AMPS	ELECT. VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
CUH-1	FFEB-040	Vest 119	Horiz. Recessed	338	19.4	70	123	160	134	1.5	5.6	3.1	115/1	1, 3, 4, 5	A, B
CUH-2	FFEB-030	Vest 106	Horiz. Recessed	193	15.8	70	146	160	144	2	3.3	3.1	115/1	2, 3, 4, 5	A, B
CUH-3	FFBB-060	Vest 100	Vert. Cabinet	403	28.8	70	136	160	146	4	3.2	3.1	115/1	1, 3, 4, 5	A, B

Based on products by TRANE. 7.5 GPM #N/A

Equal products by Airtherm and Vulcan are acceptable. 3/6/18 7:39

ACCESSORIES/OPTIONS:

1. 3-row Hot Water coil.
2. 4-row Hot Water coil.
3. Piping Package.
4. Free Discharge ECM Motor.
5....

REMARKS:

A. Sized at high fan speed.
B. Color selected by Owner.

UNIT HEATERS - HOT WATER (238101)

MARK	MANUFACTURER'S MODEL NO.	LOCATION	TYPE	CFM	MBH	EAT	LAT	WATER GPM	WATER EWT	WATER LWT	ELECT. PD.FT.	ELECT. Watts	ELECT. VOLT/PH	ACCESSORIES/ OPTIONS	REMARKS
UH-1	S-A18	Mech/Elec 105	Horizontal	500	11.0	60	81	1.5	160	145	2	16	115/1		

Based on products by TRANE. #N/A

Equal products by Sterling and Airtherm are acceptable. 3/6/18 7:39

ACCESSORIES/OPTIONS:

1.
2.
3.

REMARKS:

A.
B.

AIR DISTRIBUTION DEVICES (233713)

MARK	MANUFACTURER'S MODEL NO.	APPL'N	SIZE (W x H) DUCT	SIZE (W x H) FACE	MAXIMUM CFM	MAXIMUM PD" *	MAXIMUM NC*	THROW * FT **	THROW * DIRECT.	TYPE	CONSTR.	DAMPER	ACCESSORIES/ OPTIONS	REMARKS
S-1	PLQ	Supply	8"	24x24	280	0.07	17	6	4-Way	Arch. Ceiling Diff.	Steel	No	1	B
S-2	PLQ	Supply	6"	24x24	170	0.06	17	4	4-Way	Arch. Ceiling Diff.	Steel	No	1	B
S-3	PLQ	Supply	10"	24x24	420	0.1	19	8	4-Way	Arch. Ceiling Diff.	Steel	No	1	B
S-4	PLQ	Supply	12"	24x24	550	0.12	19	10	4-Way	Arch. Ceiling Diff.	Steel	No	1	B
S-5	(not used)													
S-6	DMGDU	Supply	36x8	39x9	1020	0.084	29	32	22.5 Deg	Univ. Spiral Duct	Aluminum	Extractor	1	A, D
R-1	EGC-15	Ret/Exh	22x22	24x24	1600	0.04	21	---	---	Eggcrate	Aluminum	No	1, 3	B, C
R-2	EGC-15	R/T/E.	22x10	24x12	800	0.05	22	---	---	Eggcrate	Aluminum	No	1, 3	B, C
R-3	EGC-15	Return	22x6	24x8	350	0.03	14	---	---	Eggcrate	Aluminum	No	1, 3	B, C
R-4	S80	Return	56x24	58x26	5000	0.024	24	---	0 deg. Def.	3/4" single deflect.	Steel	No	1	A
E-1	EGC-15	Exhaust	12x12	14x14	530	0.05	18	---	---	Eggcrate	Aluminum	Yes	1, 3	A

Based on products by KRUEGER. *at Maximum... ** Distance in FT at 100 FPM with direction pattern indicated. #N/A

Equal products by TITUS and PRICE are acceptable. *** Horizontal distance/Vertical distance @ 15 deg. Delta T. 3/21/18 9:30

ACCESSORIES/OPTIONS:

1. Standard White Finish.
2. Aluminum Finish.
3. 1/2" openings x 1" deep.

REMARKS:

A. Surface Mounted.
B. T-bar lay-in.
C. Plenum with bellmouth takeoff, see detail.
D. Universal edncaps with foam seals.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

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Project Title: MCKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 MCKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: MECHANICAL SCHEDULES

HSR Project Number: 17057

Project Date: 3-08-18

Drawn By: S Kelly

Key Plan:

BID DOCUMENTS

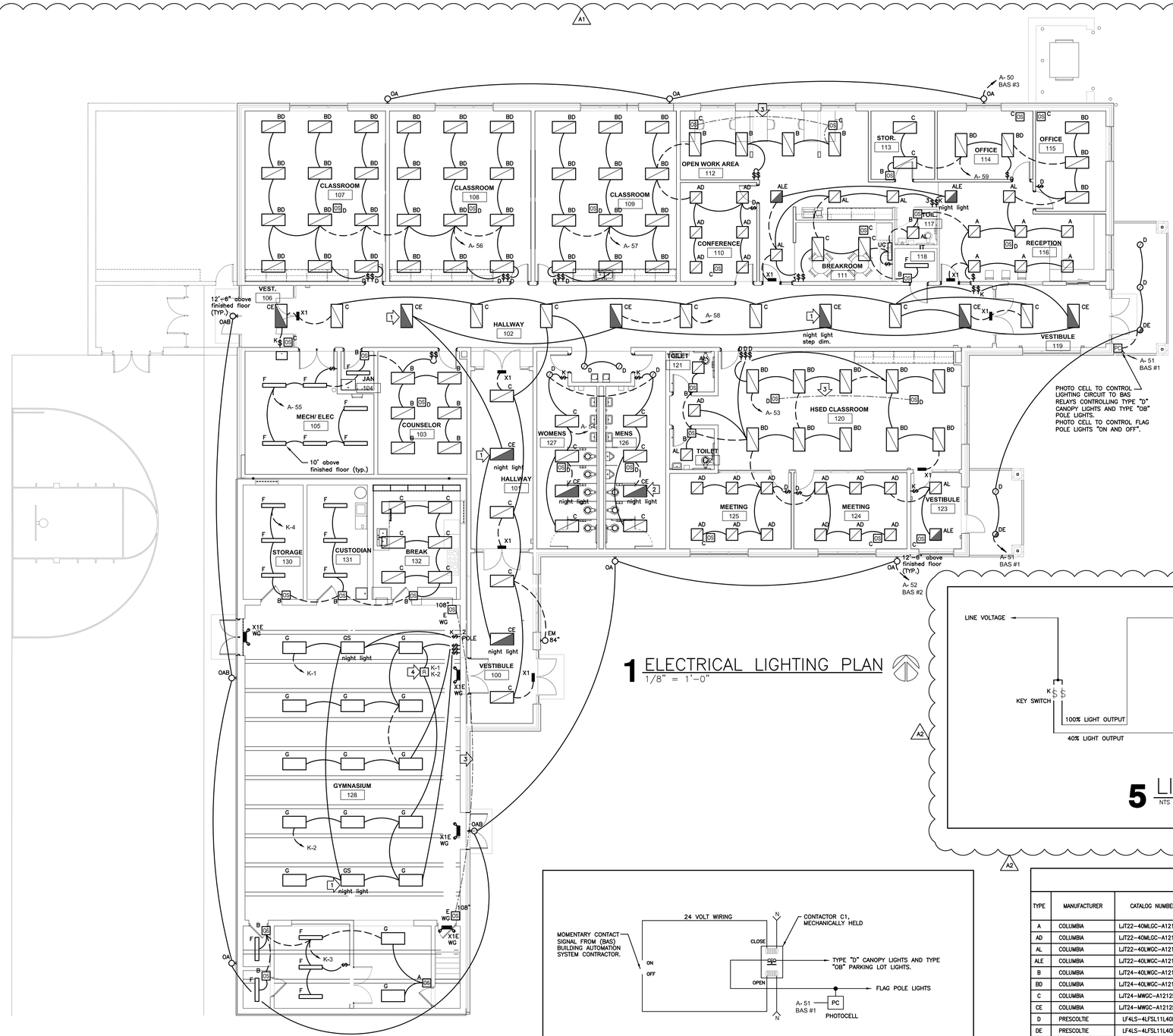
Revisions:

No.	Description	Date
A1	Revision 1	3-15-2018
A2	Revision 2	3-21-2018

Graphic Scale: VARIES

Last Update: 3/21/2018 10:16:44 AM

M600R1



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

CONSTRUCTION NOTES: REMODEL

GENERAL NOTES:

a. ALL ELECTRICAL DEVICES SHOWN TO BE NEW, UNLESS INDICATED OTHERWISE.

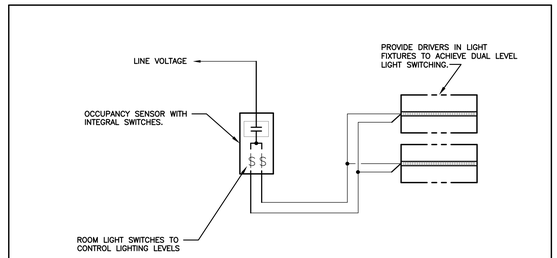
b. PROVIDE FIRE STOPPING AND SMOKE DRAFT STOPPING AT ALL CONDUIT PENETRATIONS. REFER TO SPECIFICATION SECTION 07840 FOR FIRE RESISTIVE AND NON-FIRE RESISTIVE ASSEMBLIES.

c. PROVIDE SEPARATE NEUTRAL CONDUCTORS FOR EACH BRANCH CIRCUIT. (NO COMMON NEUTRALS)

d. PROVIDE GROUND CONDUCTOR IN ALL NEW CONDUITS.

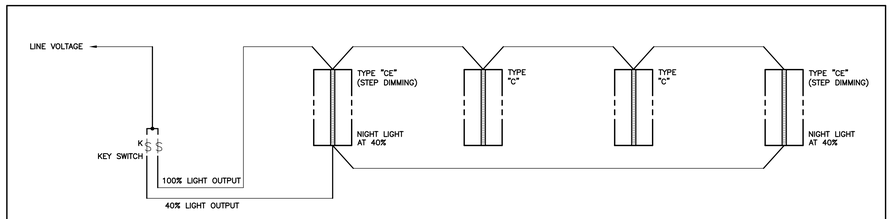
SPECIFIC NOTES:

1. STEP DIMMING LIGHT FIXTURE TO BE ACTIVATED BY KEY SWITCH TO 40% OUTPUT. TOGGLE SWITCH TO ACTIVATE LIGHT FIXTURE TO 100% LIGHT OUTPUT (TYPICAL).
2. ROOM OCCUPANCY SENSOR TO CONTROL ROOM LIGHTING: TYPE "C" FIXTURES TO TURN ON AND OFF AT 100%; TYPE "CE" FIXTURE TO REMAIN AT 40% DURING UNOCCUPIED TIMES.
3. INTERLOCK ROOM OCCUPANCY SENSORS SO THAT EITHER ONE MAINTAIN BRANCH CIRCUIT TO LIGHT SWITCHES.
4. PROVIDE 2 POLE RELAY TO CONTROL BOTH LIGHTS CIRCUITS IN ROOM VIA LIGHTING OCCUPANCY SENSORS.



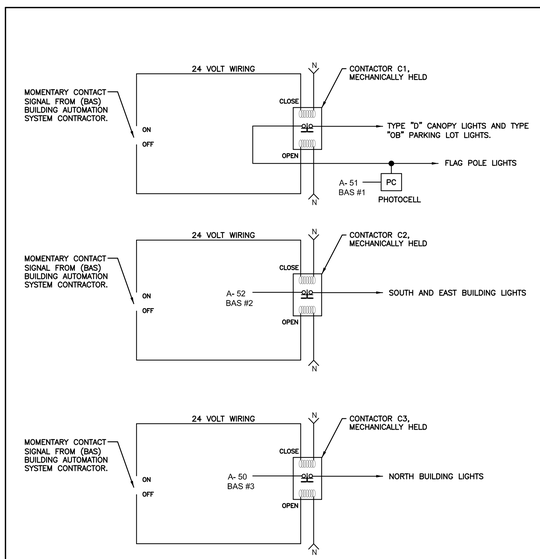
2 TYPE 'A' OCCUPANCY SENSOR
NTS

(DUAL LEVEL SWITCHING)

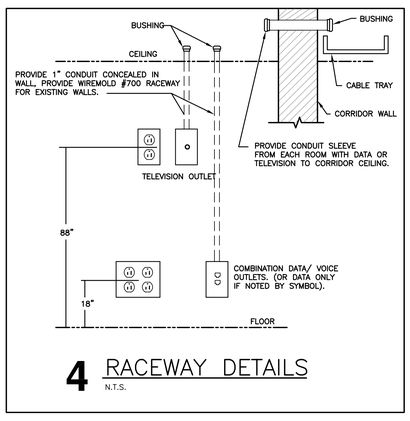


5 LIGHT SWITCHING DETAIL
NTS

(DUAL LEVEL SWITCHING)



3 EXTERIOR LIGHTING CONTROL
NTS



4 RACEWAY DETAILS
N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	VOLT	MOUNTING ** F	S	P	O	LAMPS NO.	WATT	TYPE	REMARK NUMBER
A	COLUMBIA	LJT22-40MLGC-A12125-E	2' X 2' LAY IN TROFFER,	MVOLT	*				–	31	LED 4000K	1
AD	COLUMBIA	LJT22-40MLGC-A12125-ED1	2' X 2' LAY IN TROFFER, DIMMING TO 1%	MVOLT	*				–	31	LED 4000K	1,4
AL	COLUMBIA	LJT22-40LWGC-A12125-E	2' X 2' LAY IN TROFFER,	MVOLT	*				–	24	LED 4000K	1
ALE	COLUMBIA	LJT22-40LWGC-A12125-E-ELL14	2' X 2' LAY IN TROFFER, EMERGENCY BATTERY	MVOLT	*				–	24	LED 4000K	1
B	COLUMBIA	LJT24-40LWGC-A12125-ESD	2' X 4' LAY IN TROFFER, STEP DIMMING	MVOLT	*				–	34	LED 4000K	2,3
BD	COLUMBIA	LJT24-40LWGC-A12125-ES1	2' X 4' LAY IN TROFFER, DIMMING TO 1%	MVOLT	*				–	34	LED 4000K	2,4
C	COLUMBIA	LJT24-MWGC-A12125-E	2' X 4' LAY IN TROFFER	MVOLT	*				–	31	LED 4000K	2
CE	COLUMBIA	LJT24-MWGC-A12125-ESD-ELL14	2' X 4' LAY IN TROFFER, EMERGENCY BATTERY	MVOLT	*				–	31	LED 4000K	2,3
D	PRESCOLITE	LF4LS-4LFSL11L40K	4" LED DOWNLIGHT	MVOLT	*				–	15.5	4000K	6
DE	PRESCOLITE	LF4LS-4LFSL11L40K-EMG	4" LED DOWNLIGHT, WITH EMERGENCY BATTERY	MVOLT	*				–	15.5	4000K	6
F	COLUMBIA	LCL4-40ML-E	LED STRIP LIGHT	MVOLT		*			–	48	4000K	
G	COLUMBIA	LJT24-40VLSM-A12125-E	2' X 4' SURFACE FIXTURE	MVOLT		*			–	59	LED 4000K	5
GS	COLUMBIA	LJT24-40VLSM-A12125-ESD	2' X 4' SURFACE FIXTURE, STEP DIMMING	MVOLT		*			–	59	LED 4000K	5
EM	DUAL-LITE	PGZ-HTR	EXTERIOR EMERGENCY LIGHT	MVOLT		*			–	15.2	LED 4000K	8
X1	COMPASS	CER	EXIT LIGHT, RED LETTERS AND BATTERY	120		*			–	2.6	LED	7
X1E	COMPASS	CCR-WGEL	EXIT LIGHT, RED LETTERS, LIGHTING HEADS	120		*			–	2.6	LED	7
OA	DUAL-LITE	RD14KUDB	EXTERIOR BUILDING LIGHT	MVOLT		*			–	32	LED 4000K	9
OAB	DUAL-LITE	RD14KUDB-EH	EXTERIOR BUILDING AND EMERGENCY LIGHT	MVOLT		*			–	50	LED 4000K	10
OB	SPAULDING	CL1-A-60L1-4K-3-DB	PARKING LOT LIGHTS, WITH 20' 4" SQUARE POLES	120		*			–	135	LED 4000K	11

* SEE REMARKS
** (F) FLUSH MOUNT; (S) SURFACE MOUNT; (P) PENDANT HUNG; (O) OTHER-SEE REMARKS IN REGARDS TO FIXTURE MOUNTING.

LIGHTING FIXTURE SCHEDULE REMARKS:

1. 2' X 2' LENSED LED LAY-IN TROFFER.
2. 2' X 4' LENSED LED LAY-IN TROFFER.
3. PROVIDE WITH STEP DIMMING DRIVER.
4. PROVIDE WITH DIMMING DRIVER DOWN TO 1%.
5. SURFACE 2'X 4' LED LIGHT WITH AMERICAN TIME #G2081 WIRE GUARD.
6. 4" LED DOWNLIGHT,
7. EXIT LIGHT, WITH EMERGENCY BATTERY, RED LETTERS, WHITE FINISH.
8. EXTERIOR EGRESS LIGHT.
9. EXTERIOR BUILDING MOUNTED LIGHT.
10. EXTERIOR BUILDING MOUNTED LIGHT WITH BATTERY.
11. PARKING LOT LIGHT WITH 20' POLE 4" SQUARE STEEL POLE PAINTED TO MATCH LUMINARIE. PROVIDE CONCRETE BASE.

EQUAL FIXTURES BY COOPER LIGHTING, HUBBELL LIGHTING AND DAY-BRITE ARE ACCEPTABLE.

ARCHITECTURE
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Project Title: McKINLEY CHARTER SCHOOL
EAU CLAIRE AREA SCHOOL DISTRICT

Project Location: 1266 McKINLEY RD
EAU CLAIRE, WI 54703

Sheet Title: ELECTRICAL LIGHTING PLAN

HSR Project Number: 17057

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Drawn By: scott gerzsik

Key Plan:

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No.	Description	Date
A1	ADDENDUM #1	03/15/2018
A2	ADDENDUM #2	03/21/2018

Graphic Scale: VARIES

Last Update: 03/21/18

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