

NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

200 W Grove Street

Long Grove, IA 52756



SCHEDULE OF DRAWINGS

GENERAL DRAWINGS	FOOD SERVICE DRAWINGS
G-001 TITLE SHEET	FS-1 EQUIPMENT PLAN
G-101 CODE INFORMATION & SAFETY REFERENCE PLANS	FS-2 ELECTRICAL ROUGH-INS PLAN
G-201 SYMBOLS AND PROJECT GENERAL NOTES	FS-3 PLUMBING ROUGH-INS PLAN
	FS-4 BUILDING WORKS PLAN
CIVIL DRAWINGS	FS-5 REFRIG. ROUGH-INS PLAN
C-101 EXISTING CONDITIONS & SITE DEMO PLAN	FS-6 ELEVATIONS AND DETAILS
C-102 SITE LAYOUT PLAN	FSV-1 EXHAUST HOOD ENGINEERING
C-103 UTILITY PLAN	FSW-1 WALK-IN ENGINEERING
C-104 GRADING PLAN	FSW-2 WALK-IN ENGINEERING
C-105 EROSION CONTROL PLAN	FSW-3 WALK-IN ENGINEERING
	RSC RANDELL SERVING COUNTER
STRUCTURAL DRAWINGS	FIRE PROTECTION DRAWINGS
S-000 GENERAL NOTES	FP-000 FIRE PROTECTION LEGEND
S-001 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS	FP-101 FIRST FLOOR PLAN - FIRE PROTECTION PLAN
S-100 FOUNDATION PLAN	
S-200 ROOF FRAMING PLAN	PLUMBING DRAWINGS
S-300 FOUNDATION DETAILS	P-000 PLUMBING LEGEND
S-301 FOUNDATION DETAILS	P-101 FIRST FLOOR PLUMBING PLAN - DOMESTIC WATER
S-400 MASONRY DETAILS	P-201 FIRST FLOOR PLUMBING PLAN - GAS, SANITARY AND VENT
S-500 STRUCTURAL DETAILS	P-202 ROOF PLUMBING PLAN
ARCHITECTURAL DRAWINGS	P-300 PLUMBING SCHEDULES AND DETAILS
AD-101 FIRST FLOOR DEMOLITION PLAN	P-401 DOMESTIC WATER RISER DIAGRAM
A-011 OVERALL REFERENCE PLAN	P-402 SANITARY AND VENT RISER DIAGRAM
A-101 FIRST FLOOR PLAN	
AF-101 FIRST FLOOR FINISH PLAN	MECHANICAL DRAWINGS
AC-101 FIRST FLOOR REFLECTED CEILING PLAN	M-000 MECHANICAL LEGEND
AR-101 ROOF PLAN	M-101 FIRST FLOOR MECHANICAL PLAN - HVAC
A-201 EXTERIOR BUILDING ELEVATIONS	M-201 FIRST FLOOR MECHANICAL PLAN - CONTROLS
A-211 INTERIOR ELEVATIONS	M-202 MECHANICAL ROOF PLAN
A-212 INTERIOR ELEVATIONS	M-300 CONTROLS LEGEND
A-301 BUILDING SECTIONS	M-301 DOAS CONTROL DIAGRAM
A-311 EXTERIOR WALL SECTIONS	M-302 EXHAUST FAN, ELECTRIC HEATER CONTROL DIAGRAM
A-312 INTERIOR WALL SECTIONS	M-303 MAKE UP AIR CONTROL DIAGRAM
A-401 ENLARGED TOILET ROOM PLANS, ELEVATIONS & DETAILS	M-304 FURNACE AND CONDENSING UNIT CONTROL DIAGRAM
A-501 EXTERIOR DETAILS	M-305 ELECTRIC HEATER AND MINI SPLIT CONTROL DIAGRAM
A-502 EXTERIOR DETAILS	M-400 MECHANICAL SCHEDULES
A-511 INTERIOR DETAILS	M-500 MECHANICAL DETAILS
A-521 TYPICAL ROOF DETAILS - PREFINISHED METAL	
A-522 TYPICAL ROOF DETAILS - SINGLE-PLY MEMBRANE	ELECTRICAL DRAWINGS
A-525 TYPICAL ROOF DETAILS - SINGLE-PLY MEMBRANE	E-000 ELECTRICAL AND FIRE ALARM LEGEND
A-601 DOOR AND FRAME DETAILS	ED-101 FIRST FLOOR ELECTRICAL PLAN - POWER DEMO
A-801 PERSPECTIVE VIEWS	ED-201 FIRST FLOOR ELECTRICAL PLAN - LIGHTING DEMO
	ES-101 ELECTRICAL SITE PLAN
	E-101 FIRST FLOOR ELECTRICAL PLAN - POWER AND LOW VOLTAGE
	E-102 ELECTRICAL ROOF PLAN
	E-201 FIRST FLOOR ELECTRICAL PLAN - LIGHTING
	E-300 ELECTRICAL ONELINE DIAGRAM & AV SCHEDULE
	E-400 ELECTRIC SCHEDULES & DETAILS
	E-401 ELECTRICAL PANEL SCHEDULES

SITE LOCATION MAP



BOARD OF EDUCATION

JONI DITTMER, President
TRACY LINDAMAN, Vice President
MOLLY BERGFELD, Board Member
GLEN KEPPEY, Board Member
JOHN MAXWELL, Board Member
MARK PRATT, Board Member
FRANK WOOD, Board Member

JOE STUTTING, Superintendent

RELEASE

BID DOCUMENTS

DATE OF ISSUE

12.09.22

ARCHITECT'S PROJECT NUMBER

218130.00

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

200 W Grove Street
Long Grove, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5540
F: 309.517.5540
www.legat.com

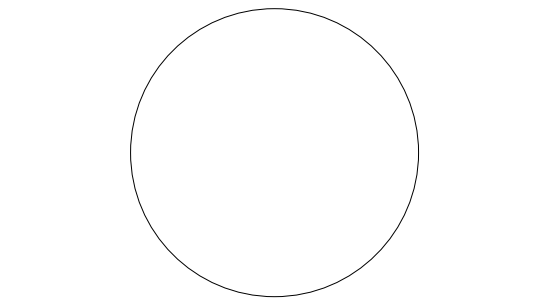
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
5137 Utica Ridge Road
Rock Island, IL
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com



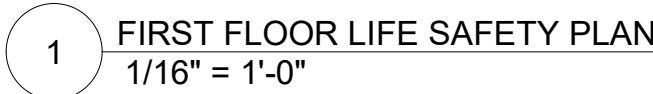
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER	218130.00
DATE OF ISSUE	12.09.22
DRAWN BY	KW
CHECKED BY	ZW

TITLE SHEET

G-001
BID DOCUMENTS



LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

G-101
BID DOCUMENTS

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E. 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

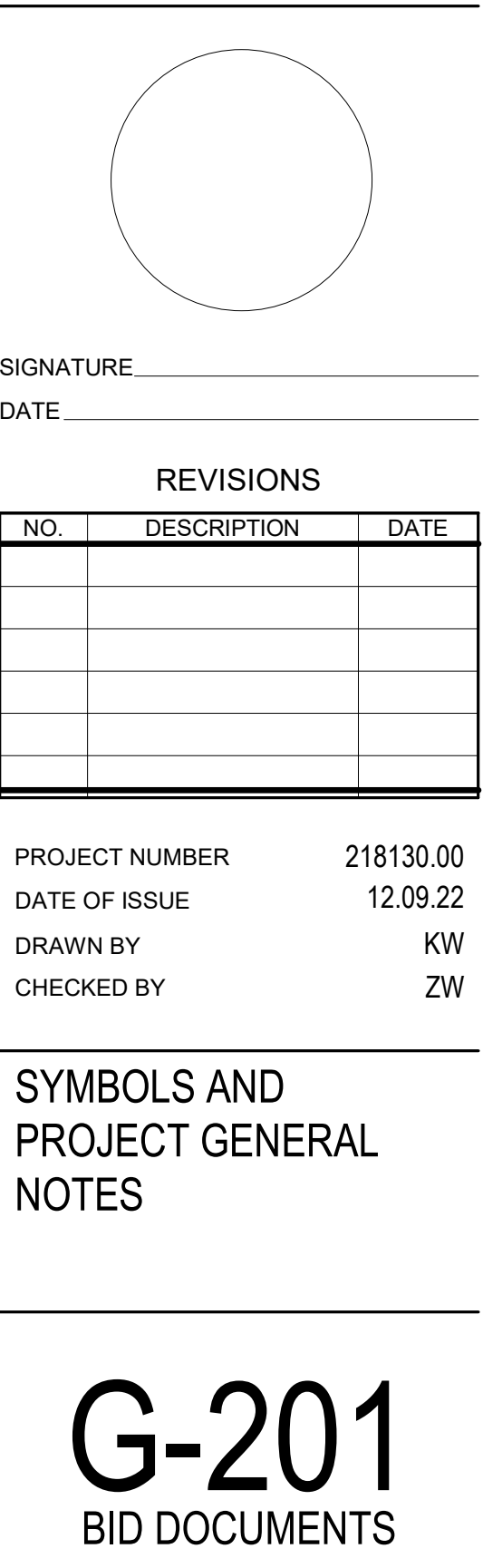
www.imegcorp.com

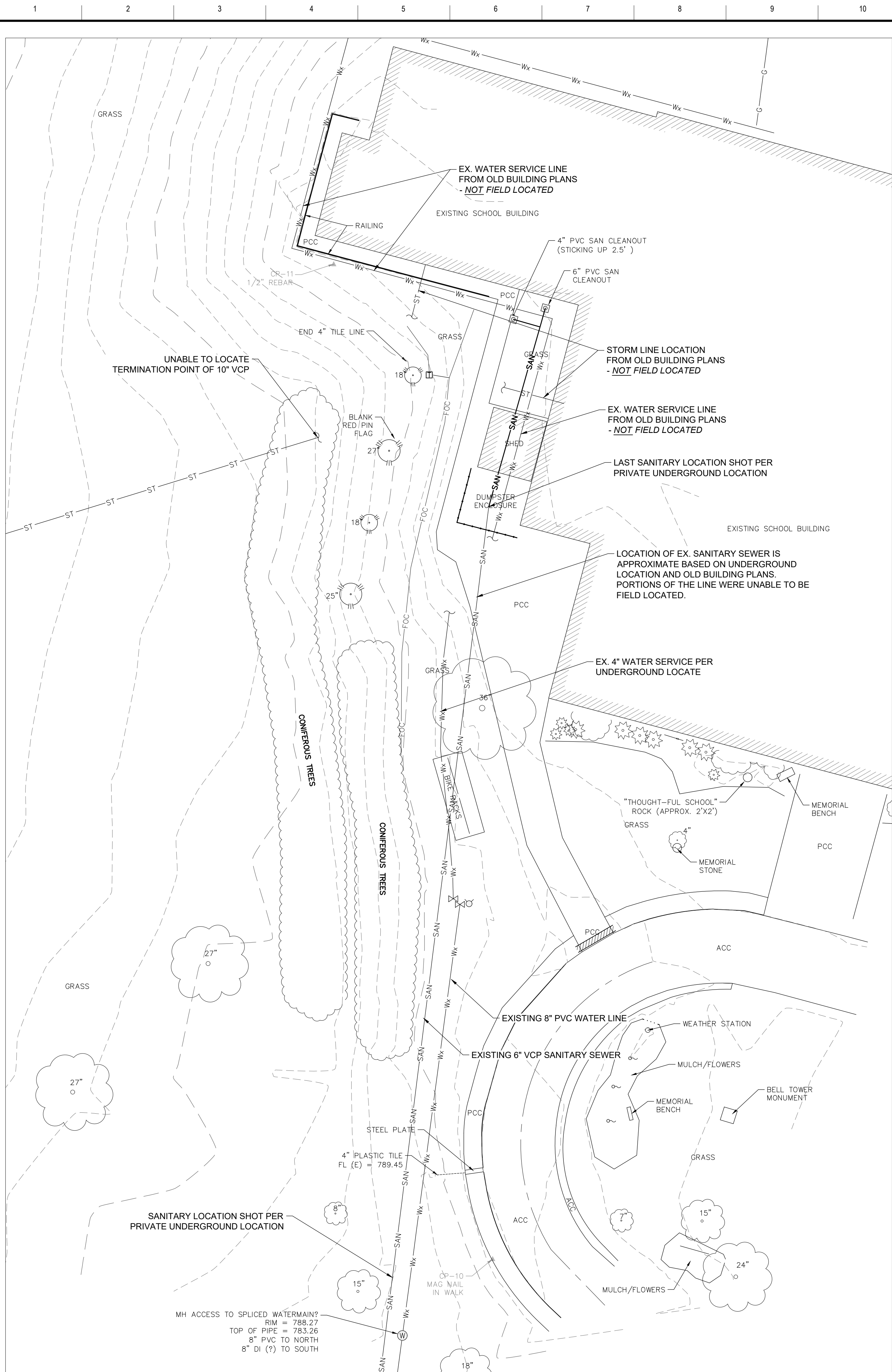
MET/FP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

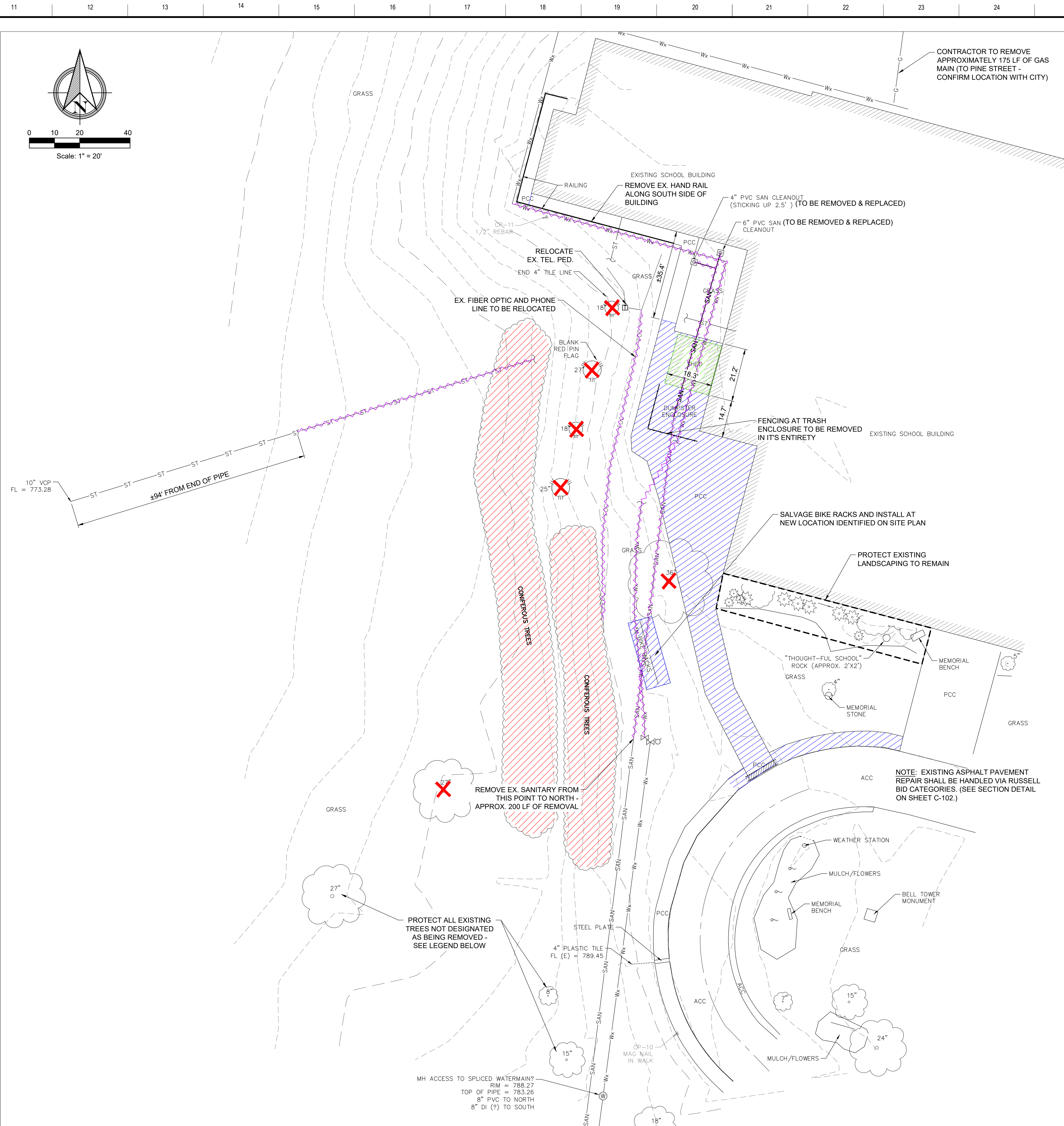
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com





EXISTING SITE CONDITIONS



DEMOLITION PLAN

EXISTING FEATURES LEGEND

- SANITARY MANHOLE
- TELEPHONE PEDESTAL
- FIRE HYDRANT
- WATER VALVE
- FLAG POLE
- SANITARY SEWER
- STORM SEWER
- WATER LINE
- FIBER OPTIC / TELE LINE
- CONTOUR
- OUTLINE TREE GROUPING



REMOVAL LEGEND

- CONCRETE REMOVAL
- STRUCTURE REMOVAL
- TREE REMOVAL
- PIPE OR CONDUIT REMOVAL

GENERAL NOTES

- ALL IMPROVEMENTS SHOWN SHALL COMPLY WITH THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS) (WHERE SPECIFIED), AND CITY OF LONG GROVE CODE OF ORDINANCES, SPECIFICATIONS, AND STANDARDS.
- TOPOGRAPHIC SURVEY FOR THE SITE WAS PROVIDED BY GREAT PLAINS SURVEY, INC.
- UTILITIES NEAR SITE:
 - ALLIANT: PRESENT NEAR CADD & GROVE ST. INTERSECTION
 - CENTRAL SCOTT TELEPHONE: CABLE AND FIBER PRESENT - SEE PLAN
 - MIDAMERICAN: IN THE VICINITY - POSSIBLY N. OF SCHOOL
 - EASTERN IOWA LIGHT & POWER: NORTHWEST OF PROPERTY
 - MEDIACOM: NEAR CADD & GROVE ST. INTERSECTION AND SOUTH/EAST OF SCHOOL

CONTROL POINTS				
POINT #	NORTHING	EASTING	DESCRIPTION	ELEVATION
10	632143.9310	2436160.5730	CP MAG NAIL IN SWK CONTROL POINT	791.37
11	632468.0490	2436108.7620	CP 12RB CONTROL POINT	791.73

KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 28th Avenue
Rock Island, IL 61201
P: 309.786.0673
www.imegcorp.com

ME/P/E ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

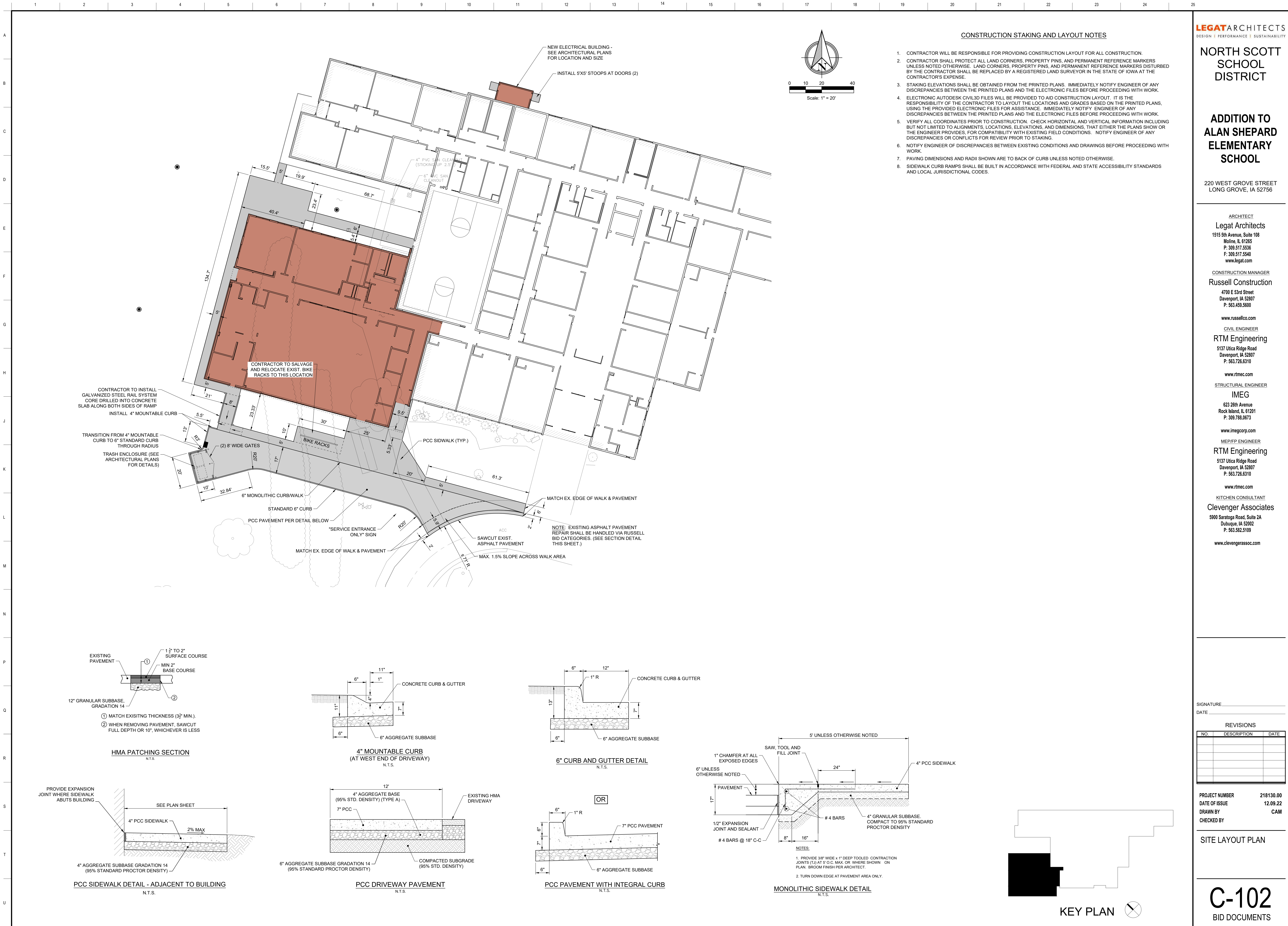
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY CAM
CHECKED BY

EXISTING CONDITIONS
& SITE DEMO PLAN

C-101
BID DOCUMENTS



CONSTRUCTION STAKING AND LAYOUT NOTES

1. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL CONSTRUCTION.
2. CONTRACTOR SHALL PROTECT ALL LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS UNLESS NOTED OTHERWISE. LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR IN THE STATE OF IOWA AT THE CONTRACTOR'S EXPENSE.
3. STAKING ELEVATIONS SHALL BE OBTAINED FROM THE PRINTED PLANS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
4. ELECTRONIC AUTODESK CIVIL3D FILES WILL BE PROVIDED TO AID CONSTRUCTION LAYOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LAYOUT THE LOCATIONS AND GRADES BASED ON THE PRINTED PLANS, USING THE PROVIDED ELECTRONIC FILES FOR ASSISTANCE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
5. VERIFY ALL COORDINATES PRIOR TO CONSTRUCTION. CHECK HORIZONTAL AND VERTICAL INFORMATION INCLUDING BUT NOT LIMITED TO ALIGNMENTS, LOCATIONS, ELEVATIONS, AND DIMENSIONS, THAT EITHER THE PLANS SHOW OR THE ENGINEER PROVIDES, FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOR REVIEW PRIOR TO STAKING.
6. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH WORK.
7. PAVING DIMENSIONS AND RADII SHOWN ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
8. SIDEWALK CURB RAMPS SHALL BE BUILT IN ACCORDANCE WITH FEDERAL AND STATE ACCESSIBILITY STANDARDS AND LOCAL JURISDICTIONAL CODES.

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com
CIVIL ENGINEER

RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.786.0873

www.imegcorp.com

MEP/FP ENGINEER

RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT

Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

SIGNATURE _____
DATE _____

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY CAM
CHECKED BY

SITE LAYOUT PLAN

[illegible]

PROJECT NUMBER	218130.00
DATE OF ISSUE	12.09.22
DRAWN BY	CAM
CHECKED BY	

UTILITY PLAN

C-103
BID DOCUMENTS



LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.786.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

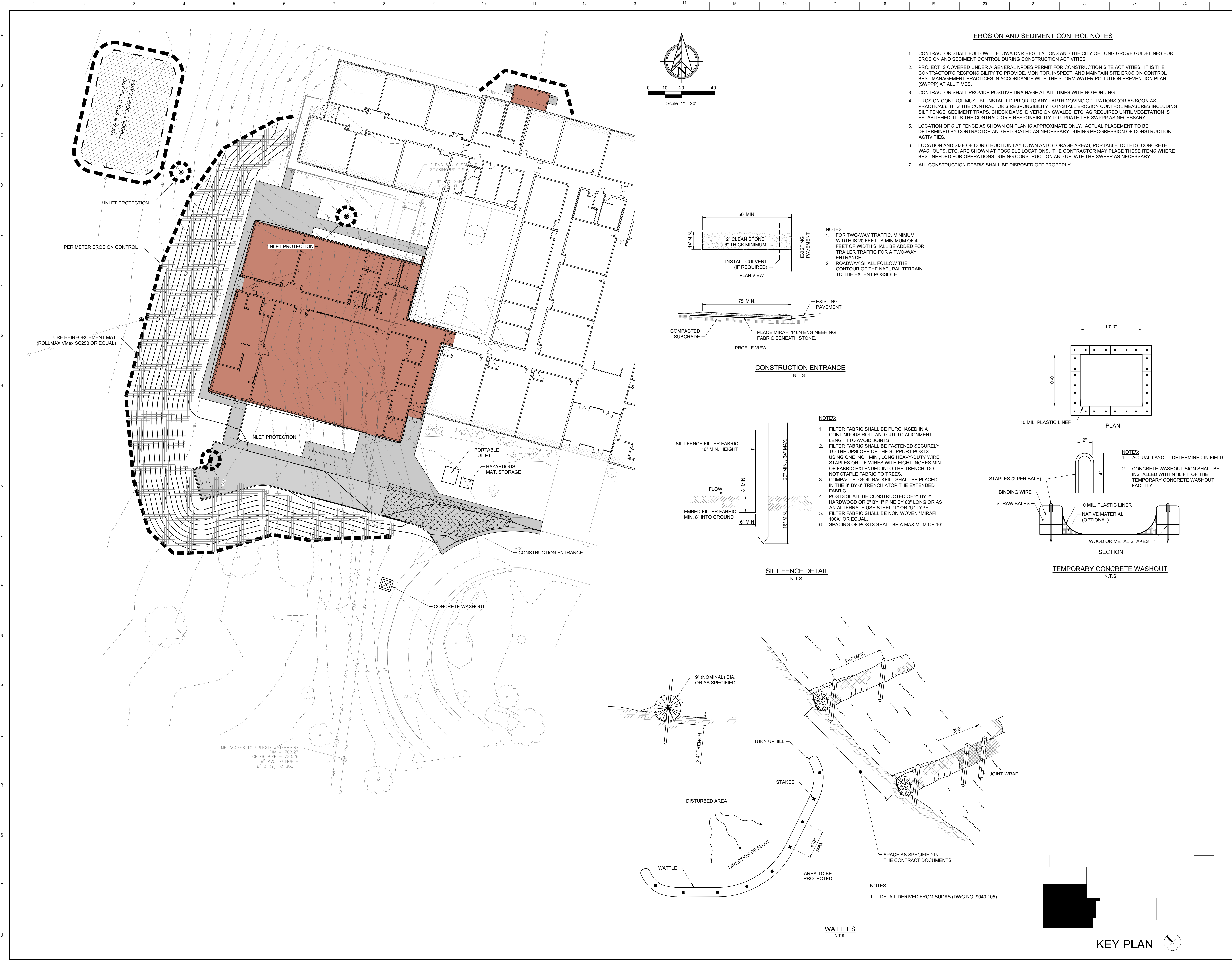
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY CAM
CHECKED BY

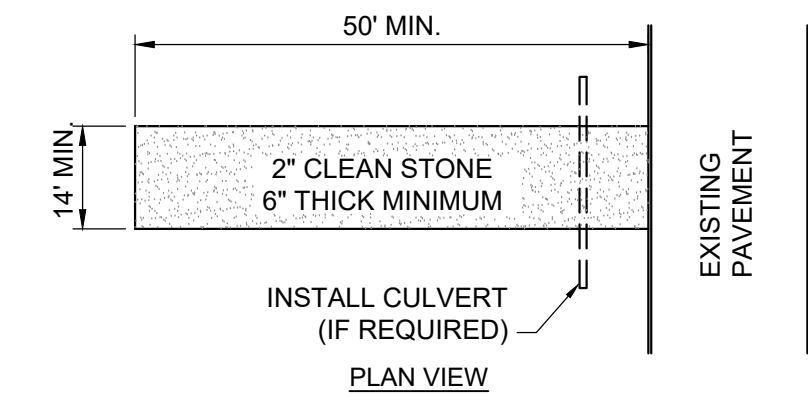
GRADING PLAN

C-104
BID DOCUMENTS

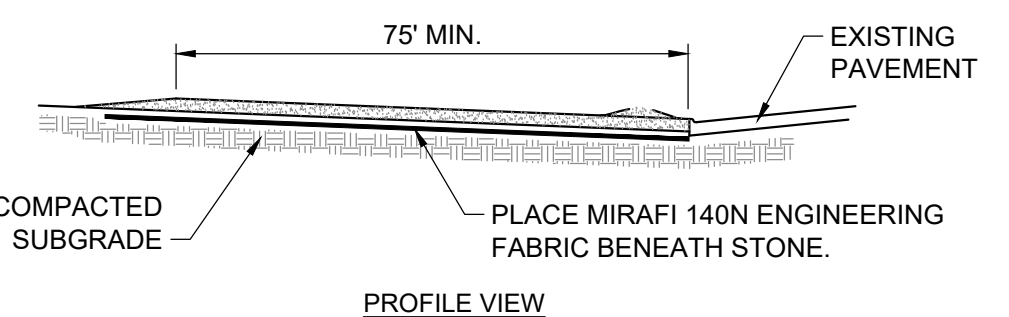


EROSION AND SEDIMENT CONTROL NOTES

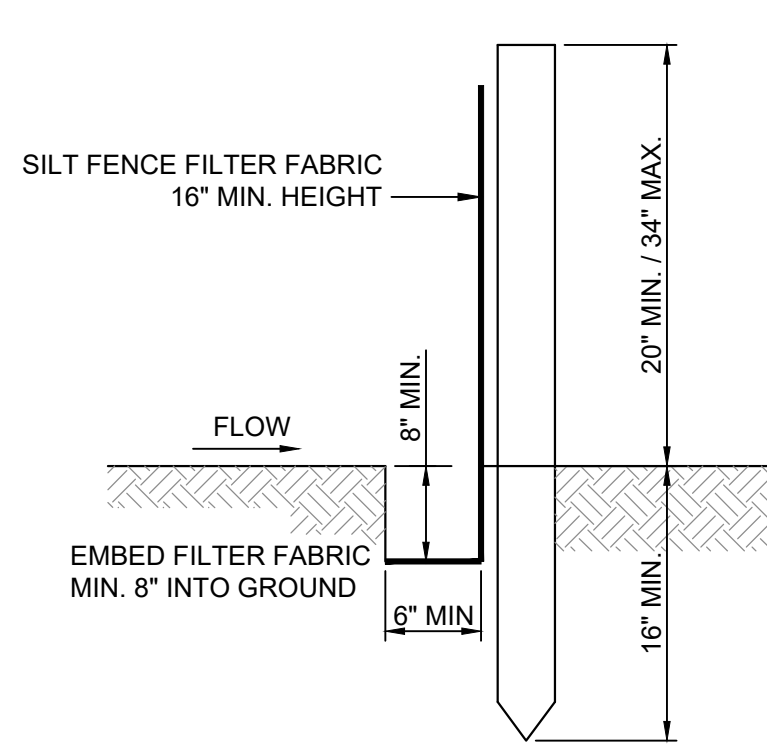
1. CONTRACTOR SHALL FOLLOW THE IOWA DNR REGULATIONS AND THE CITY OF LONG GROVE GUIDELINES FOR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION ACTIVITIES.
2. PROJECT IS COVERED UNDER A GENERAL NPDES PERMIT FOR CONSTRUCTION SITE ACTIVITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, MONITOR, INSPECT, AND MAINTAIN SITE EROSION CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AT ALL TIMES.
3. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITH NO PONDING.
4. EROSION CONTROL MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS (OR AS SOON AS PRACTICAL). IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, SEDIMENT TRAPS, CHECK DAMS, DIVERSION SWALES, ETC. AS REQUIRED UNTIL VEGETATION IS ESTABLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UPDATE THE SWPPP AS NECESSARY.
5. LOCATION OF SILT FENCE AS SHOWN ON PLAN IS APPROXIMATE ONLY. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR AND RELOCATED AS NECESSARY DURING PROGRESSION OF CONSTRUCTION ACTIVITIES.
6. LOCATION AND SIZE OF CONSTRUCTION LAY-DOWN AND STORAGE AREAS, PORTABLE TOILETS, CONCRETE WASHOUTS, ETC. ARE SHOWN AT POSSIBLE LOCATIONS. THE CONTRACTOR MAY PLACE THESE ITEMS WHERE BEST NEEDED FOR OPERATIONS DURING CONSTRUCTION AND UPDATE THE SWPPP AS NECESSARY.
7. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OFF PROPERLY.



- NOTES:
1. FOR TWO-WAY TRAFFIC, MINIMUM WIDTH IS 20 FEET. A MINIMUM OF 4 FEET OF WIDTH SHALL BE ADDED FOR TRAILER TRAFFIC FOR A TWO-WAY ENTRANCE.
 2. ROADWAY SHALL FOLLOW THE CONTOUR OF THE NATURAL TERRAIN TO THE EXTENT POSSIBLE.

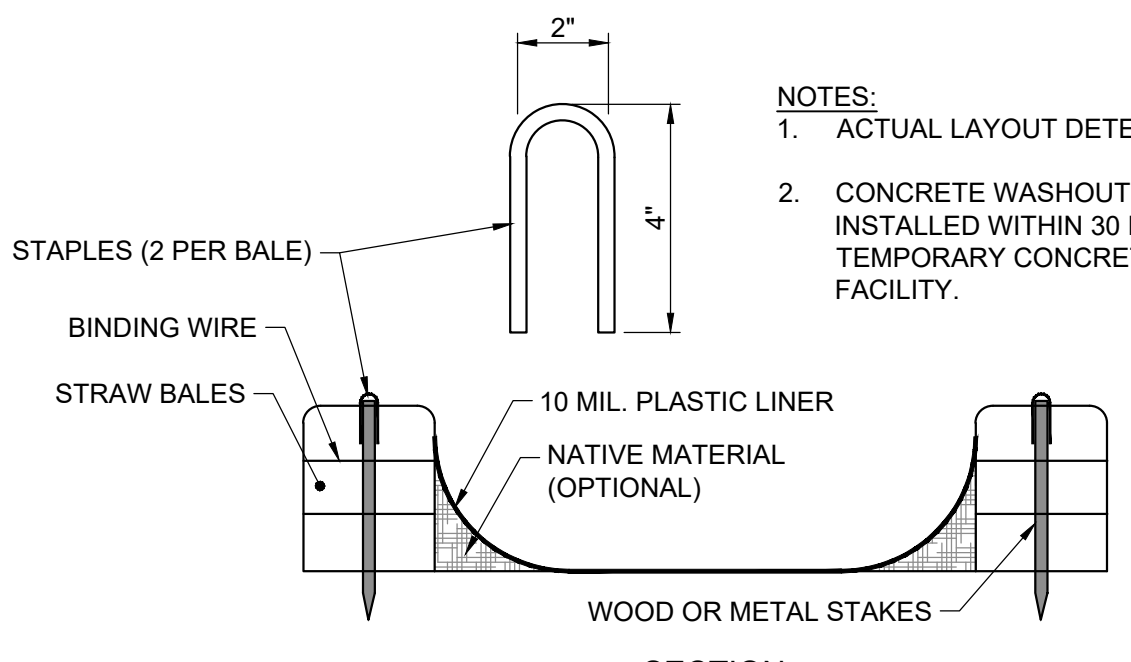
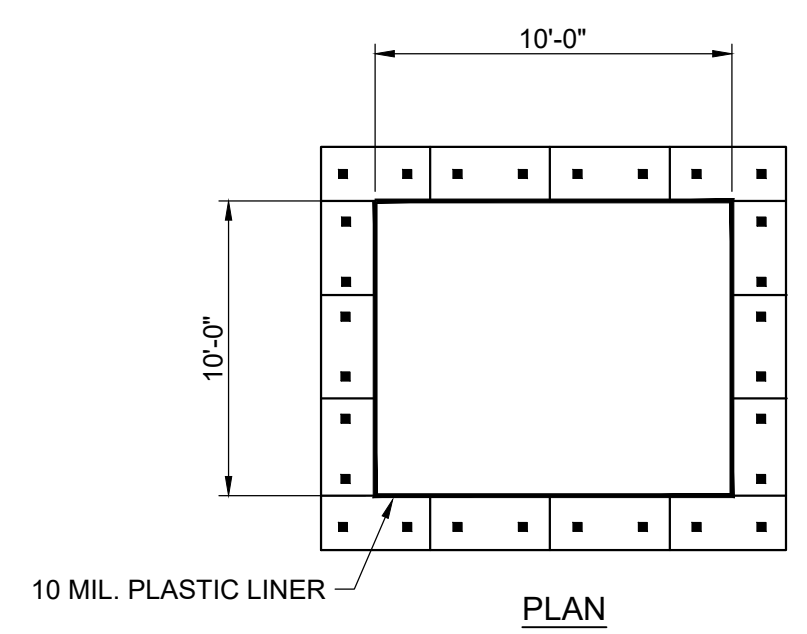


CONSTRUCTION ENTRANCE
N.T.S.

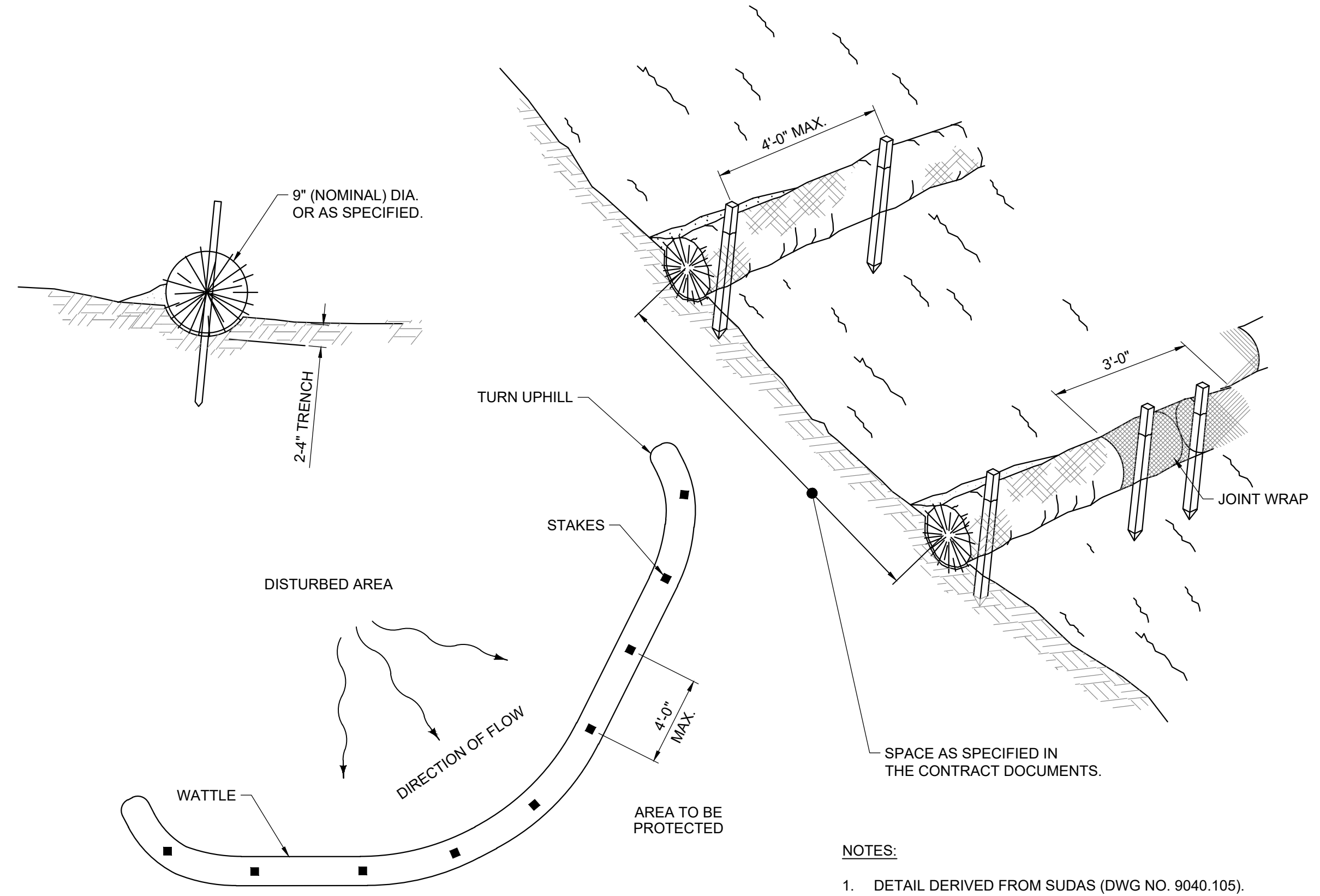


- NOTES:
1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO ALIGNMENT LENGTH TO AVOID JOINTS.
 2. FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE OF THE SUPPORT POSTS USING ONE INCH MIN. LONG HEAVY-DUTY WIRE STAPLES OR TIE WIRES WITH EIGHT INCHES MIN. OF FABRIC EXTENDED INTO THE TRENCH. DO NOT STAPLE FABRIC TO TREES.
 3. COMPACTED SOIL BACKFILL SHALL BE PLACED IN THE 8\"/>

SILT FENCE DETAIL
N.T.S.

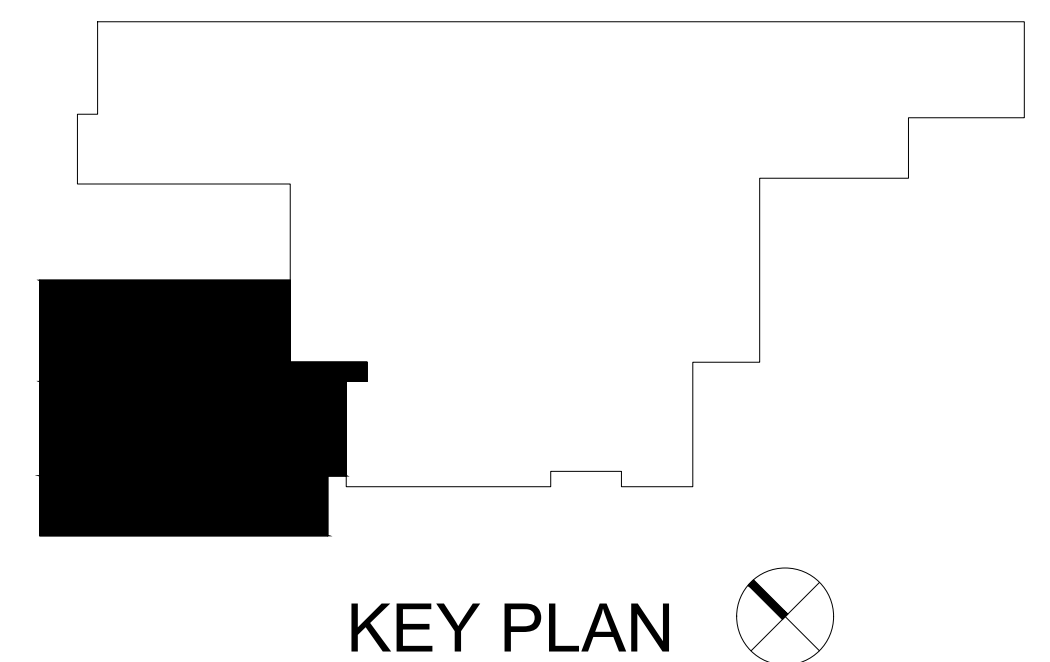


TEMPORARY CONCRETE WASHOUT
N.T.S.



- NOTES:
1. DETAIL DERIVED FROM SUDAS (DWG NO. 9040.105).

WATTLES
N.T.S.



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0873

MEP/FP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY CAM
CHECKED BY

EROSION CONTROL
PLAN

DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
- IBC 2010
 - ASCE 7-15
 - ACI 318-14
 - ASCE 360-10
2. RISK CATEGORY III
- TYPICAL ROOF MECHANICAL
- 20 PSF (REDUCIBLE)
100 PSF (UNREDUCIBLE)
3. SNOW
- GROUND SNOW
SNOW EXPOSURE FACTOR
- 25 PSF
1.0
4. THERMAL FACTOR
- IMPORTANCE FACTOR
- 1.1
5. FLAT-ROOF SNOW DESIGN SNOW
- 22 PSF
6. SEISMIC
- SEISMIC DESIGN CATEGORY
- C
- IMPORTANCE FACTOR
- 1.25
7. SOIL CLASS
- Ss
- 103 g
- Ss
- 0.059 g
- Ss
- 0.165 g
- Sd1
- 0.165 g
8. SEISMIC FORCE RESISTING SYSTEM
- 2
- RD
- 1.34
- CD
- 2.12
9. ANALYSIS PROCEDURE
- EQUIVALENT LATERAL FORCE
10. DESIGN BASE SHEAR, STRENGTH LEVEL
- V = Cs x W = 0.103 x W KIPS, E-W AND N-S
11. WIND
- BASIC WIND SPEED
- V ULT = 115 MPH
- IMPORTANCE FACTOR
- 1.15
- EXPOSURE CLASS
- C
- INTERNAL PRESSURE COEFFICIENT, Gcpi
- +0.18
12. ROOF COMPONENTS:
- SUPPORT BEAMS (A x > 100 SF)
- 35.9 PSF
- 60.7 PSF
- 62.7 PSF
- WALL SHEATHING (A x > 50 SF)
- 51.9 PSF
- 64.8 PSF
- 64.8 PSF
- DECK FASTENERS (A x > 10 SF)
- 46.0 PSF
- 43.8 PSF
- 56.8 PSF
13. WALL COMPONENTS:
- A = 200 SF
- 25.9 PSF
- 29.8 PSF
- A = 50 SF
- 25.9 PSF
- 29.8 PSF
- A = 20 SF
- 28.6 PSF
- 35.2 PSF
14. C & C NOTES:
- a. THE PRESSURES LISTED ARE IN ACCORDANCE WITH IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
- b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.
- c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
- d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, FOR ANY DESIGN NOTIFICATION TO THE STATED PRESSURES.
15. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY SHEAR WALLS IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. PROVIDE HORIZONTAL DIAPHRAGMS AND BRACING TO TRANSFER DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS, IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
11. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
12. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
13. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
14. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
15. PENETRATIONS SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.
16. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

SUBMITTALS

1. SUBMITTALS ARE:
- a. CONCRETE MIX DESIGNS
 - b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
 - c. CONCRETE AND MASONRY REINFORCING
 - d. STEEL FABRICATION AND MISCELLANEOUS METALS
 - e. JOISTS
 - f. STEEL DECK
2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/ENGINEER AND REVIEW BY THE ARCHITECT. THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

EXISTING CONDITIONS / DEMOLITION

1. EXISTING CONDITIONS:
- a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS.
 - b. DATED 01.17.1966 BY TRI-STATE AERO-ENGINEERING COMPANY.
 - c. DATED 10.08.1969 BY STEWART-ROBINSON-LAFFAN ARCHITECTS.
2. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE REPORTED TO THE ARCHITECT OR STRUCTURAL ENGINEER SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL ENGINEER.
3. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.
4. ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A MINIMUM.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED 08.05.2022 BY TEAM SERVICES. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:
- ALLOWABLE NET SOIL BEARING PRESSURE:
- FOOTINGS
- 1,500 PSF [DL+LL]
- 3'-6" (UNHEATED)
- 3'-6" (HEATED)
3. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER ENCOUNTERS OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. AS COHESIVE SOILS AT THIS SITE ARE HIGHLY SUSCEPTIBLE TO SURFACE DRAINAGE, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
4. CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC.
5. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNTAINS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
6. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL, OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
7. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
8. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.
9. THE FUTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
10. ANY REQUIRED IMPROVE FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.
11. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
12. AS STATED IN THE GEOTECHNICAL REPORT, THERE ARE AREAS THAT REQUIRE UP TO 10 FEET OF FILL TO ACHIEVE DESIRED FINAL GRADES. FOR DEEPER FILL (6 TO 10 FEET OR MORE IN THICKNESS), ADD FILL TO BUILDING PAD ELEVATION AND ALLOW 4 TO 6 WEEKS FOR FILL TO SURCHARGE AND SETTLE THE EXISTING SOILS BELOW. SURVEY FOR SETTLEMENT OVER THIS TIME PERIOD. AFTER SETTLEMENT HAS OCCURRED, EXCAVATE FOR PERIMETER WALLS.
13. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE TAN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE (ACI) DETAILING MANUAL - (SP-086) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BULLET STEEL CONFORMING TO THE FOLLOWING STANDARD:
- DEFORMED BARS
- ASTM A615, GR 60
- Fy = 60 KSI
- WELDED WIRE REINFORCING
- ASTM A1064
- Fy = 65 KSI
3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
- CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND
- 3"
- EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
- #6 BARS OR LARGER
- 2"
- #6 BARS OR SMALLER
- 1 1/2"
- NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
- SLABS, JOIST AND WALLS WITH #14 AND #18 BARS
- 1 1/2"
- SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER
- 3/4"
- BEAMS, COLUMNS, PEDISTALS AND TENSION TIRES
- 2"
- COLUMN VERTICAL BARS
- 2"
- BOUNDARY ELEMENTS
- 1 1/2"
4. SUPPORTS FOR CONCRETE CUREMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED.
5. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND ENDS.
6. CONTINUOUS HORIZONTAL REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER SUPPORTS FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL BAR BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS GREATER.
7. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NO SPLICES ARE PERMITTED WITHIN THE SPECIFIED LENGTH WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
8. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
9. REINFORCING IN WALL, FOOTINGS AND GRADE BEAMS BETWEEN COLUMNS SHALL BE DEVELOPED (ld) INTO COLUMN FOOTINGS.
10. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE.
11. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
12. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
13. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL BARS AS REQUIRED AND INDICATED ON THE DRAWINGS.
14. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
15. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENTS OF ACI 318.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 308.1, ACI 308.1, ACI 318 AND SP-086, UNLESS OTHERWISE NOTED.
2. CONCRETE MATERIALS SHALL CONFORM TO:
- CEMENT
- ASTM C150, TYPE I OR II
- CLASS
- F2, S0, C1, W0
- FLY ASH
- ASTM C618, TYPE C OR F
- CLASS
- F2, S0, C1, W0
- FINE AND COARSE AGGREGATE
- ASTM C33
- CLASS
- F2, S0, C1, W0
- LIGHTWEIGHT AGGREGATE
- ASTM C330
- CLASS
- F1, S0, C1, W0
- WATER
- POTABLE
- AIR-ENTRAINING ADMIXTURE
- ASTM C494
- WATER REDUCING ADMIXTURE
- ASTM C494
3. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	STRENGTH (PSI)	EXPOSURE CLASS
FOOTINGS	3000	F2, S0, C1, W0
FOUNDATIONS	4000	F2, S0, C1, W0
SLAB ON GRADE	4000	F1, S0, C1, W0
UNLESS OTHERWISE NOTED	4000	NA

4. NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED.
5. DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
6. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR SPECIAL CASES.
- | THICKNESS (IN) | MAXIMUM JOINT SPACING EACH WAY (FT) |
|----------------|-------------------------------------|
| 5 | 10 |
7. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE.
8. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
9. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED TO 1/4" AMPLITUDE BY SAND BLASTING OR MECHANICAL MEANS. CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
10. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.
11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS.
12. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.
13. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 20.8.
14. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE COLUMNS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
15. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
16. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH RADIUS OR MORE, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
17. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL REINFORCING.
18. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS.

19. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
20. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED ITEMS.
21. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE SHALL BE KEPT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
22. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED.
23. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THE CONSTRUCTION OF FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED TO RESIST THE PRESSURE OF THE CONCRETE AGAINST THE FORMS. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
24. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
25. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
26. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON DECK TOP AND SLAB-ON-GRADE.
27. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
28. PROVIDE SLAB COORDINATION DRAWING SUBMITTAL INDICATING COORDINATED LOCATIONS OF MEP PENETRATIONS, SUBMITTAL OPENINGS, IN-PLACE CONDUIT/DUCT (IF ALLOWED), EMBEDS, CAST-IN ANCHORS, POST-TENSIONED TENDONS AND STRESSING ANCHORS, AND OTHER ITEMS EMBEDDED OR PENETRATING STRUCTURAL ELEVATED SLABS.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530/530.1 TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE:
- DESIGN ASSEMBLY STRENGTH, fm
- 2500 PSI
- INDIVIDUAL CONCRETE MASONRY UNITS
- 2800 PSI
- ASTM C90
3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
- CONCRETE MASONRY UNITS
- ASTM C90, NORMAL WEIGHT
- MORTAR
- ASTM C270, TYPE S ASTM C270, TYPE N
- J |
- GROUT |
- ASTM C476 |
- JOINT REINFORCING |
- ASTM A82 |
4. WIRE REINFORCING PER ASTM A82 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153. CORROSION RESISTANT HORIZONTAL JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING: RUNNING BOND 9 GA @ 16" OC (ALL WIDTHS) BELOW GRADE WALLS 9 GA @ 16" OC (6"-8" WIDTH) 9 GA @ 8" OC (10"-16" WIDTH) OTHER THAN RUNNING BOND 9 GA @ 16" OC (6"-8" WIDTH) 9 GA @ 8" OC (10"-16" WIDTH) 5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING CMU WALLS TO UNDERSIDE OF LINTEL PLUS ONE CELL BEYOND BEARING LENGTH. 6. PROVIDE MINIMUM 1 INCH GROUT BETWEEN MAN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCING SHALL BE CENTERED IN WALL, UNLESS OTHERWISE NOTED. VERTICAL REINFORCING BARS SHALL BE HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND TIES TO BE HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. 7. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. 8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL. 9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT. 10. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN ADJACENT MECHANICAL, ELECTRICAL OR ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED. 11. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED BY DECK SHORING REQUIREMENTS, UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GROSSER STUD PROFILES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP DRAWINGS. |

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS AT LEAST 1" COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS SHALL BE SIZED PER THE FOLLOWING:
- | SPAN, L | STEEL OPTION (FOR 4" OF MASONRY) * |
|--------------------|------------------------------------|
| 0' < L ≤ 4'-0" | L3 1/2x3 1/2x1/4 (LLV) |
| 4'-0" < L ≤ 6'-0" | L4x3 1/2x3/8 (LLV) |
| 6'-0" < L ≤ 8'-0" | L5x3 1/2x3/8 (LLV) |
| 8'-0" < L ≤ 10'-0" | L6x3 1/2x3/8 (LLV) |
4. REINFORCING IN WALL, FOOTINGS AND GRADE BEAMS BETWEEN COLUMNS SHALL BE DEVELOPED (ld) INTO COLUMN FOOTINGS.
5. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE.
6. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
7. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
8. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL BARS AS REQUIRED AND INDICATED ON THE DRAWINGS.
9. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.
10. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENTS OF ACI 318.

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING OF STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:
- WIDE FLANGE SHAPES
- ASTM A992
- Fy = 50 KSI
- OTHER ROLLED SHAPES
- ASTM A36
- Fy = 36 KSI
- HSS SECTION, SQUARE
- ASTM A500, GR C
- Fy = 50 KSI
- BASE AND CONNECTION PLATES
- ASTM A36
- Fy = 36 KSI
- ANCHOR RODS
- ASTM F1554, GR 36
- Fy = 36 KSI
- HIGH STRENGTH BOLTS
- ASTM F3125, GR A325
- Fy = 120 KSI
- HIGH STRENGTH TWIST-OFF BOLTS
- ASTM F3125, GR F1852
- Fy = 120 KSI
- HEAVY HEX NUTS
- ASTM A563
- WASHERS
- ASTM F436
- HEADED STUD ANCHORS
- ASTM A108, TYPE B
- ELECTRODES FOR ARC WELDING
- AWS 5.1, E70XX
3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF THE NUT METHOD.
6. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED, WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS, WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT DIMENSION OF SIZE, USE AS SPECIFIED IN AISC 360, TABLE D2.4.
7. HEADED STUD ANCHORS (HSA) SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING. APPROXIMATELY 1/8" FOR 5/8" AND SMALLER AND 3/16" FOR LARGER THAN 5/8".
8. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPLICE AND CONNECTION TO BE MADE.
9. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G80 G80, ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
10. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
11. WELDS, HOLDING PENNINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
12. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANCHORS, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
13. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT, MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 10,000 PSI.
14. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

STEEL JOISTS

1. DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED.
2. ATTACH STEEL JOIST TO SUPPORT AS FOLLOWS:
- | JOIST TYPE/SERIES | DETAILS WITH WELD INFORMATION | DETAILS WITH BOLT INFORMATION | MINIMUM END BEARING (IN) | STEEL MASSONRY |
|-------------------|-------------------------------|-------------------------------|--------------------------|----------------|
| K | WELD | BOLT | WELD | BOLT |
| WELD | LENGTH (IN) | (DIAMETER (IN)) | MATERIAL | |
| 1/2 | 2 | 1/2 | A307 | 2 1/2 |
| 1/4 | 2 | 1/2 | A307 | 4 |
3. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THE CONSTRUCTION OF FORMWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED TO RESIST THE PRESSURE OF THE CONCRETE AGAINST THE FORMS. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
4. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
5. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
6. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON DECK TOP AND SLAB-ON-GRADE.
7. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.
8. PROVIDE SLAB COORDINATION DRAWING SUBMITTAL INDICATING COORDINATED LOCATIONS OF MEP PENETRATIONS, SUBMITTAL OPENINGS, IN-PLACE CONDUIT/DUCT (IF ALLOWED), EMBEDS, CAST-IN ANCHORS, POST-TENSIONED TENDONS AND STRESSING ANCHORS, AND OTHER ITEMS EMBEDDED OR PENETRATING STRUCTURAL ELEVATED SLABS.

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
2. DECK SIZE AND GAUGE NOTED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
- a. CURRENT VERSION OF VULCRUF VERTICO CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS
 - b. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 4TH EDITION FOR DIAPHRAGM LOADS
3. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF G60.
4. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS.
5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14 GAUGE.
6. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT PROVIDED BY THE STEEL FABRICATOR.
7. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE STEEL FABRICATOR.
8. CONDUITS SHOULD NOT BE PLACED IN CONCRETE SLAB ON STEEL DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
9. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE FLOOR SYSTEMS WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
10. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL OR ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED.
11. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED BY DECK SHORING REQUIREMENTS, UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GROSSER STUD PROFILES TO THE ARCHITECT/STRUCTURAL ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP DRAWINGS.

TESTING, INSPECTIONS, AND OBSERVATIONS

- THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS ARE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
- DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
 - SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
 - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
 - FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
 - SUBMIT A FINAL SIGNED STATEMENT WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
- SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
 - POST-INSTALLED ANCHORS - INSPECTION
- THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
CONCRETE CONSTRUCTION				
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: CH 20, 26.2, 26.3, 26.2.1-26.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		X	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		X	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		X	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		X	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		X	AISC 341: TABLE J9.1	
7. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X	ACI 318: 26.6.4	
c. INSPECTS ALL OTHER WELDS		X		
8. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
9. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS		X	ACI 318: 17.8.2	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
10. VERIFY USE OF REQUIRED DESIGN MIX		X	ASTM C172, ASTM C91, ACI 318: 26.5, 26.12	1907.10
11. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE		X	ACI 318: 26.5	1908.6, 1908.7, 1908.9
12. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	
14. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND		X	ACI 318: 26.11.2	
b. GROUTING OF BONDED PRESTRESSING TENDONS		X		
15. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X	ACI 318: 26.9	
16. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: 26.11.2	
17. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.2(b)	

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
MASONRY CONSTRUCTION - LEVEL 2				
1. PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS		X	ART. 1.5	ART. 1.5
b. VERIFICATION OF THE FOLLOWING ARE IN COMPLIANCE:				
a. PROPORTIONS OF SITE-PREPARED MORTAR		X	ART. 2.1, 2.6 A & 2.6 C	
b. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES		X	ART. 2.4 B & 2.4 H	
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES		X	ART. 3.4 & 3.6 A	
d. PRESTRESSING TECHNIQUE		X	ART. 3.6 B	
e. SAMPLE PANEL CONSTRUCTION		X	ART. 1.6 D	
3. PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE:				
a. GROUT SPACE		X	ART. 3.2 D & 3.2 F	
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		X	SEC. 10.8 & 10.9	ART. 2.4 & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X	SEC. 6.1 & 6.3.1	ART. 3.2 E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X	ART. 2.6 B & 2.4 G, 1.5	
4. DURING CONSTRUCTION:				
a. VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE		X	ART. 1.5 & 1.6.3	
b. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X	ART. 1.5	
c. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X	ART. 3.3 B	
d. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X	ART. 3.3 F	
e. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X	SEC. 12.1 (e), 6.2.1 & 6.3.1	
f. WELDING OF REINFORCEMENT		X	SEC. 6.1.6.1.2	
g. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)		X	ART. 3.6 B	
h. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCES		X	ART. 3.5 & 3.6 C	
i. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE		X	ART. 3.5 & 3.6 C	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X	ART. 1.4 B.2.a, 3.1.4 B.2.b, 3.1.4 B.2.c, 1.4 B.3 & 1.4 B.4	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE C-N5-6-1	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE C-N5-6-1	6.5.1
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE C-N5-6-1	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE C-N5-6-1	4.8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE C-N5-6-1	TABLE 6.1(2)
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P ¹	O ¹	TABLE C-N5-6-1	3.9.1, 9.3
7. PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE C-N5-6-1	2.2.8, 9.1

1 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION				
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE C-N5-6-3	N/A
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO WELDING - MINIMUM INSPECTION				
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	TABLE C-N5-4-1	6.3
2. MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	O	O	TABLE C-N5-4-1	6.2
3. MATERIAL IDENTIFICATION	O	O	TABLE C-N5-4-1	6.2
4. WELDER IDENTIFICATION	O	O	TABLE C-N5-4-1	6.4 (WELDER QUALIFICATION)
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O	TABLE C-N5-4-1	4.8
a. JOINT PREPARATION	O	O	TABLE C-N5-4-1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE C-N5-4-1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	O	O	TABLE C-N5-4-1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE C-N5-4-1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE C-N5-4-1	5.9, 5.21.1.1
6. FIT-UP OF CJP GROOVE WELDS OF HSS T, Y, & K JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	P/O ¹	O	TABLE C-N5-4-1	9.11.2
a. JOINT PREPARATION	P/O ¹	O	TABLE C-N5-4-1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P/O ¹	O	TABLE C-N5-4-1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	P/O ¹	O	TABLE C-N5-4-1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P/O ¹	O	TABLE C-N5-4-1	9.11.2
7. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	TABLE C-N5-4-1	6.5.2, 5.16 (& SEE AISC 360 SECT. J1.9)
8. FIT-UP OF FILLET WELDS	P/O ¹	O	TABLE C-N5-4-1	5.2.1.1
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O ¹	O	TABLE C-N5-4-1	5.14
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O ¹	O	TABLE C-N5-4-1	5.17
c. TACKING (TACK WELD QUALITY AND LOCATION)	P/O ¹	O	TABLE C-N5-4-1	6.2, 5.10
9. CHECK WELDING EQUIPMENT	O	O	TABLE C-N5-4-1	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL DURING WELDING - MINIMUM INSPECTION				
1. USE OF QUALIFIED WELDERS	O	O	TABLE C-N5-4-2	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE C-N5-4-2	6.2
a. PACKAGING	O	O	TABLE C-N5-4-2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE C-N5-4-2	5.3.2 (FOR SAW), 5.3.3 (FOR SAW)
3. ENVIRONMENT CONDITIONS	O	O	TABLE C-N5-4-2	5.11.1
a. WIND SPEED WITHIN LIMITS	O	O	TABLE C-N5-4-2	5.11.2
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE C-N5-4-2	5.11.2
c. WPS FOLLOWED	O	O	TABLE C-N5-4-2	6.3, 6.5.2, 5.5, 5.20
a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE C-N5-4-2	
b. TRAVEL SPEED	O	O	TABLE C-N5-4-2	
c. SELECTED WELDING MATERIALS	O	O	TABLE C-N5-4-2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE C-N5-4-2	
e. PREHEAT APPLIED	O	O	TABLE C-N5-4-2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE C-N5-4-2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE C-N5-4-2	
h. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	O	TABLE C-N5-4-2	
5. WELDING TECHNIQUES	O	O	TABLE C-N5-4-2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE C-N5-4-2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE C-N5-4-2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE C-N5-4-2	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION				
1. WELDS CLEANED	P	P	TABLE C-N5-4-3	5.29.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	TABLE C-N5-4-3	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P ²	P ²	TABLE C-N5-4-3	6.5.3
a. CRACK PROHIBITION	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(3)
d. WELD PROFILES	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(4), 5.24
e. WELD SIZE	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(6)
f. UNDERCUT	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(7)
g. POROSITY	P ²	P ²	TABLE C-N5-4-3	TABLE 6.1(8)
4. ARC STRIKES	P	P	TABLE C-N5-4-3	5.28
5. K-AREA ³	P ²	P ²	TABLE C-N5-4-3	N/A
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	P	P	TABLE C-N5-4-3	5.16, 6.5.2 (& SEE AISC 360 SECT. J1.6)
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P ²	P ²	TABLE C-N5-4-3	5.9, 5.30
8. REPAIR ACTIVITIES	P	P	TABLE C-N5-4-3	6.5.3, 5.25
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE C-N5-4-3	6.5.4, 6.5.5
10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P ²	P ²	TABLE C-N5-4-3	6.5.4, 6.5.5

1 FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS TO VERIFY THESE ITEMS, THE PERFORMANCE DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE. AND THE WELDER SHALL PERFORM THIS TASK SHOULD THE INSPECTOR DETERMINE THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK. THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

2 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

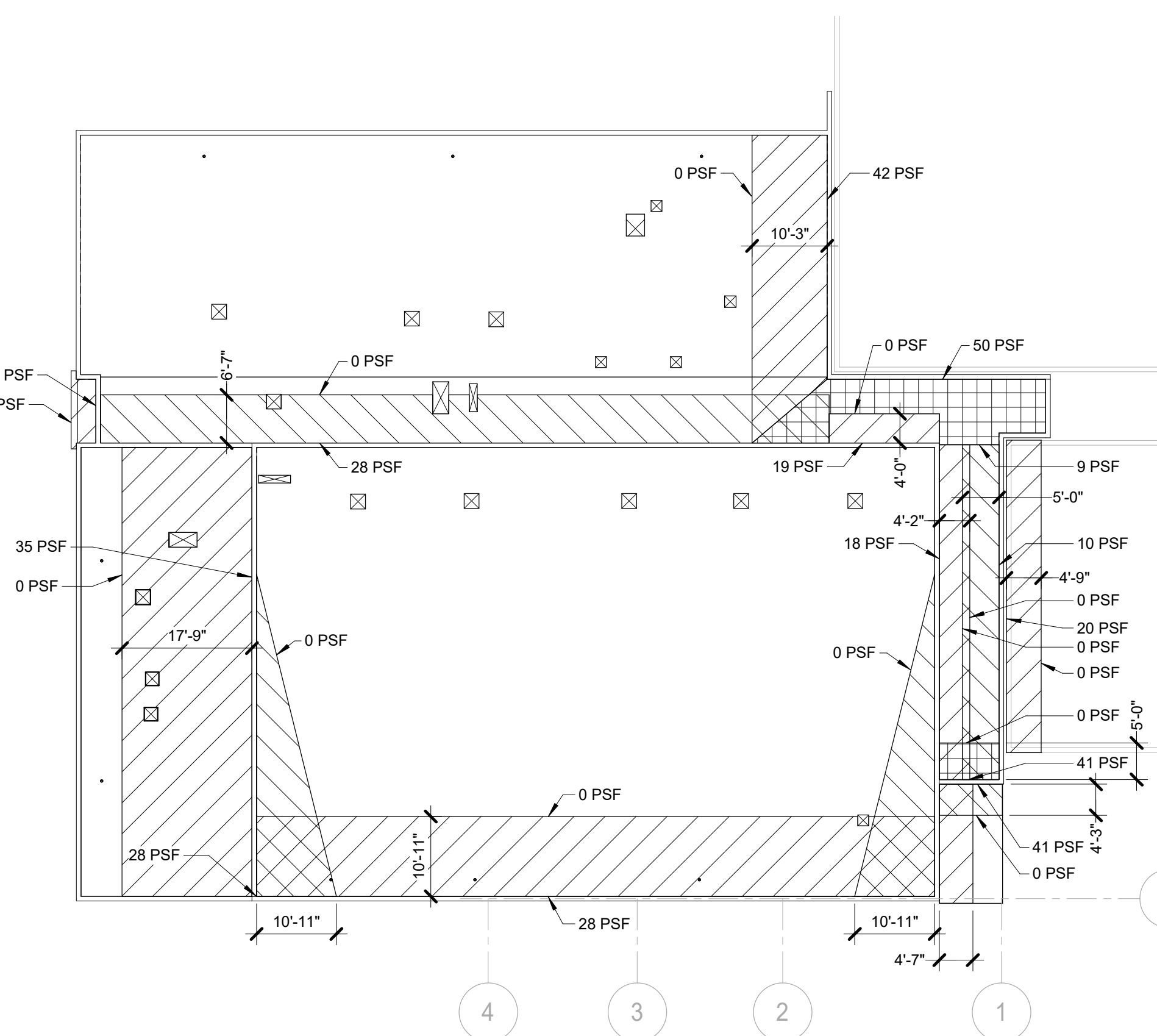
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	IBC REFERENCE
STRUCTURAL STEEL - OTHER INSPECTION TASKS REQUIRED BY AISC 341				
1. RBS REQUIREMENTS, IF APPLICABLE	P ¹	P ¹		
2. CONTOUR AND FINISH	P ¹	P ¹		
3. DIMENSIONAL TOLERANCES	P ¹	P ¹		
4. PROTECTED ZONE - NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE	P ¹	P ¹		

1 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
OPEN-WEB JOISTS AND GIRDERS				
1. INSTALLATION OF OPEN-WEB JOISTS AND GIRDERS:				
a. END CONNECTIONS - WELDING AND BOLTED		X	SJI SPEC. LISTED IN SECTION 2207.1	
b. BRIDGING - HORIZONTAL AND DIAGONAL		X	SJI SPEC. LISTED IN SECTION 2207.1	
c. STANDARD BRIDGING		X		
d. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1		X		

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
STRUCTURAL DECKING				
1. DECK PLACEMENT AND ATTACHMENT	X	X		

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
SOILS				
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY	X			



SNOW DRIFT PLAN

1. SNOW DRIFTS SHOWN ARE IN ADDITION TO THE DESIGN SNOW LOAD PER S-000.

STRUCTURAL ABBREVIATION KEY			
ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	KSF	KIPS PER SQUARE FOOT
@	DEGREE	KSI	KIPS PER SQUARE INCH
Ø	DIAMETER	LBS	POUNDS
(E)	EXISTING	LL	LIVE LOAD
A.B.	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT, -URE, -URAL	LLV	LONG LEG VERTICAL
B.O.	BOTTOM OF	LONG.	LONGITUDINAL
BF	BEAM FRAME	LSH	LONG SIDE HORIZONTAL
B.L	BOUNDARY NAILING	LSV	LONG SIDE VERTICAL
BM	BOTTOM	LT WT	LIGHTWEIGHT
B.N.	BRIDGE NAILING	MAX	MAXIMUM
BOTT	BOTTOM	MECH	MECHANICAL
BTWN	BETWEEN	MANUF	MANUFACTURER
CF	COLD FORM STEEL FRAMING	MIN	MINIMUM
CGS	CENTER OF GRAVITY OF THE TENDON	NIC	NOT IN CONTRACT
CJP	COMPLETE JOINT PENETRATION WELD	NTS	NOT TO SCALE
CLR	CLEAR	ON CENTER	ON CENTER
CL	CENTERLINE	OP	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OSB	ORIENTED STRAND BOARD
CONC	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONN	CONNECTION	P.H.	PENTHOUSE
CONST	CONSTRUCTION	PL	PARTIAL JOINT PENETRATION WELD
COORD	COORDINATION	PL PLATE	PLATE
DI	DIAMETER	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	PT	POST-TENSION, -ED, -ING
DWGS	DRAWING	R	RADIUS
DWL	DOWEL	REIN	REINFORCING, -MENT, -ED
EACH	EACH	REQD	REQUIRED
EA	EACH FACE	RTU	ROOF TOP UNIT
EFF	EFFECTIVE	SC	SLIP CRITICAL
EL	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRICAL	SFRS	SEISMIC FORCE-RESISTING SYSTEM
EMBED	EMBEDMENT	SIM	SIMILAR
E.N.	EDGE NAILING	S.M.S.	SHEET METAL SCREW
EDGE OF DECK	EDGE OF DECK	SP	SPECIFICATION(S)
EOS	EDGE OF SLAB	SQ	SQUARE
EQUAL	EQUAL	STIFF	STIFFENER
EQUIP	EQUIPMENT	STL	STEEL
ETC	ETCETERA	SYM	SYMMETRICAL
EW	EACH WAY	T&B	TOP AND BOTTOM
EXP	EXPANSION	TC	TEMP
EXT	EXTERIOR	TEMP	TEMPERATURE
FC	CONCRETE COMPRESSIVE STRENGTH	THK	THICKNESS
FDN	FOUNDATION	TRANS	TRANSVERSE
F.N.	FIELD NAILING	TYP	TYPICAL
FT	FOOTING	UNO	UNLESS OTHERWISE NOTED
FTG	FOOT	VERT	VERTICAL
FY	YIELD STRESS	VF	VERIFY IN FIELD
GA	GAGE OR GAUGE	W	WITH
GALV	GALVANIZED	WP	WORK POINT
HORIZ	HORIZONTAL	WT	WEIGHT
HSA	HEADED STUD ANCHOR	WWR	WELDED WIRE REINFORCING
HSB	HIGH STRENGTH BOLT		
JT	JOINT		
K, KIP	KILOPOUND (1,000 POUNDS)		

FOUNDATION WALL REINFORCING SCHEDULE						
WALL THICKNESS	HORIZONTAL		VERTICAL		REMARKS	
	EXTERIOR FACE	INTERIOR FACE	EXTERIOR FACE	INTERIOR FACE		
FROST WALLS:						
0" TO 10"	#5 @ 18" OC	-	#5 @ 12" OC	-	SEE NOTE 1	
1'-0" TO 1'-4"	#5 @ 12" OC	#5 @ 12" OC	#5 @ 18" OC	#5 @ 18" OC		

- NOTE:
- CENTERED IN WALL THICKNESS.

CMU WALL REINFORCING SCHEDULE			
MARK	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	8"	#5 @ 32" OC	-
MW2	8"	#5 @ 48" OC	TYP WALL CONFIGURATION, UON.
MW3	8"	#5 @ 48" OC	CMU WALL LOCATED BEHIND WINDOWS, NOT FULL HEIGHT. SEE ARCH. REINFORCEMENT ONLY APPLIED TO BOTTOM PORTION.
MW4	10"	#5 @ 48" OC	NRG BLOCK CONFIGURATION

- NOTES:
- TYP HORIZ REINF PER SPECIFICATIONS AND IS INTENDED TO BE A 'DUOWALL' - TRUSS TYPE OR EQUIVALENT.
 - 'GROUT ALL CORES' INDICATES EVERY REINFORCED CORE AND UNREINFORCED CORE.
 - REINFORCED CORES ARE ALWAYS GROUTED.
 - SEE S-400 FOR TYP CMU DETAILING.

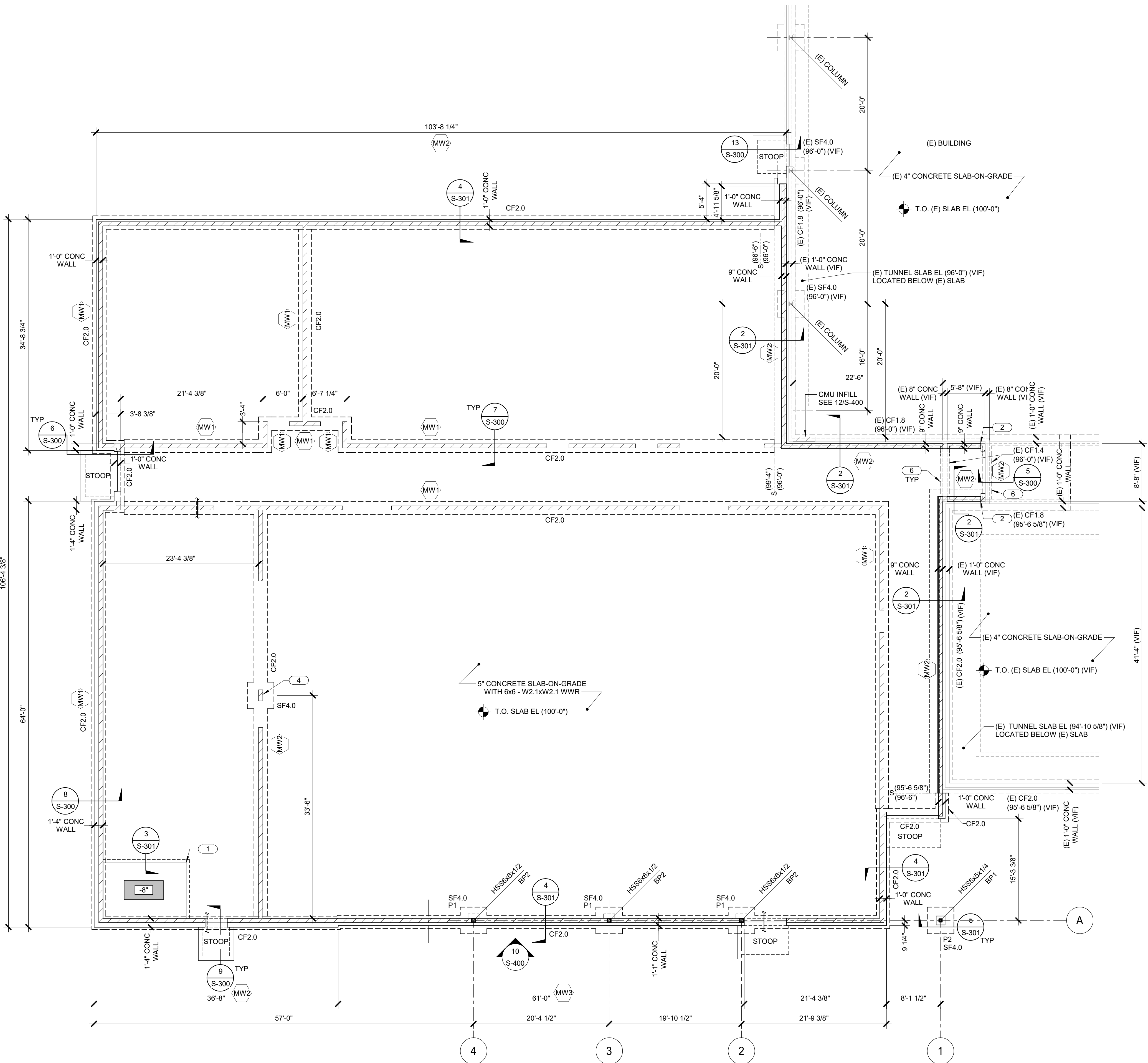
CMU REINFORCING BAR DEVELOPMENT LENGTH (L_d) SCHEDULE

f'm=2000 PSI				
CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L _d	REMARKS
8"	SINGLE LAYER, REINF CENTERED IN WALL	#4	13"	NOTE 5
		#5	20"	
		#6	36"	

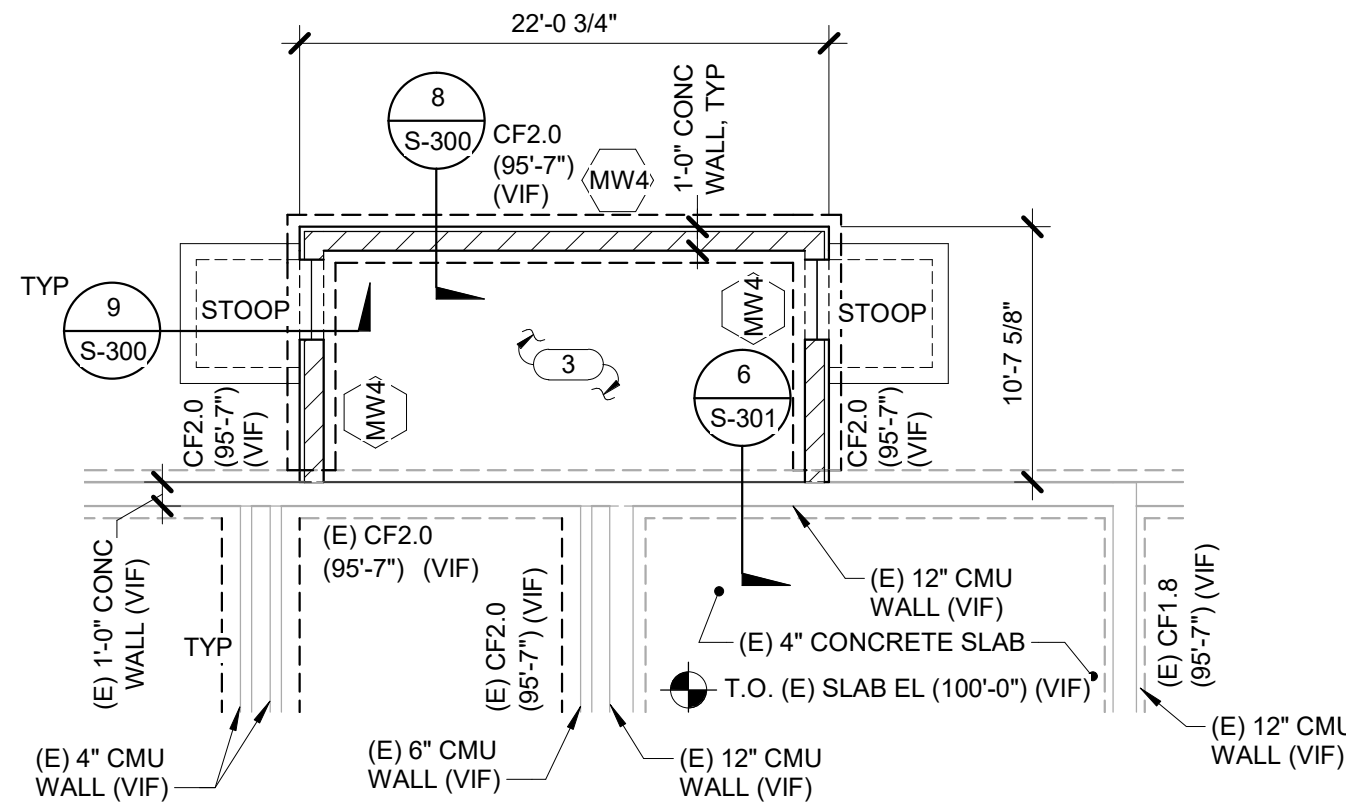
- NOTES:
- CONTRACTOR TO PROVIDE LAP SPLICE LENGTHS TO MATCH L_d VALUES PROVIDED IN SCHEDULE OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
 - WHERE TWO DIFFERENT SIZES OF REINFORCING BARS ARE LAPPED, PROVIDE L_d FOR SMALLER REINFORCING BAR.
 - DOWEL EMBEDMENT INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.
 - WHEN EPOXY-COATED REINFORCING BARS ARE USED, INCREASE TABULATED VALUES BY A FACTOR OF 1.5.
 - MORTAR FINS TO BE REMOVED.

CONTINUOUS FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING	
			LONG DIRECTION	SHORT DIRECTION
CF2.0	2'-0"	1'-0"	(2) #5	WALL DOWELS

SPREAD FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	
				LONG DIRECTION	SHORT DIRECTION
SF4.0	4'-0"	4'-0"	1'-0"	(4) #4	(4) #4



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



5 FOUNDATION PLAN - ELECTRICAL ROOM
1/8" = 1'-0"

- NOTES:
- SEE S-300 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
 - TOP OF EXTERIOR FOOTING EL (96'-6"), UON. TOP OF INTERIOR FOOTING EL (99'-4"), UON. SEE THIS SHEET FOR SCHEDULES.
 - TOP OF PIER EL (99'-4") UON.
 - SEE S-300 FOR PIER INFORMATION.
 - TOP OF FOUNDATION WALL EL (100'-0"), UON. SEE S-500 FOR BASEPLATE DETAILS.
 - PROVIDE 2'-6"x2'-6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
 - PROVIDE THICKENED SLAB UNDER ALL NON-STRUCTURAL CMU WALLS - SEE 4/S-300 FOR DETAIL AND ARCHITECTURAL PLANS FOR EXTENT AND LOCATIONS.
 - FOR PIPING AND CONDUIT THROUGH FOUNDATIONS, SEE - 1/S-301.
 - SEE THIS SHEET FOR CMU WALL SCHEDULE.
 - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
 - GEOTECHNICAL REPORT RECOMMENDS OVEREXCAVATING THE EXISTING FILL IN ITS ENTIRETY FROM BELOW FOOTINGS. REFER TO 10/S-300 FOR OVER-EXCAVATING INFORMATION.
 - SURCHARGE REQUIRED PER GEOTECHNICAL REPORT AT SOUTH-WEST CORNER (ON PLAN) FOR FILL UP TO BUILDING PAD. SEE GENERAL NOTES AND GEOTECHNICAL REPORT FOR FURTHER INFORMATION.

- KEYNOTES: (#)
- COORDINATE DIMENSIONS OF DEPRESSED SLAB WITH EQUIPMENT SUPPLIER.
 - JOINT BETWEEN LOAD BEARING WALL AND FIREWALL.
 - 5" CONCRETE SLAB-ON-GRADE WITH 6x6 - W2.1xW2.1 WWR. T.O. SLAB EL (100'-0").
 - FULLY GROUT WALL PORTION. PLACE A #7 VERTICAL REBAR AT (2) CMU BLOCKS (MIN.) DOWELS INTO (E) FOUNDATION WALL AT 48" OC. SEE 2/S-301 FOR MORE INFORMATION.
 - DEMO TOP 1'-0" OF (E) FOUNDATION WALL FOR SLAB BEARING.

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER

RTM Engineering

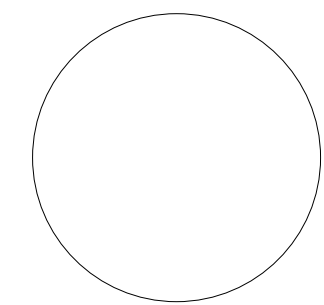
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



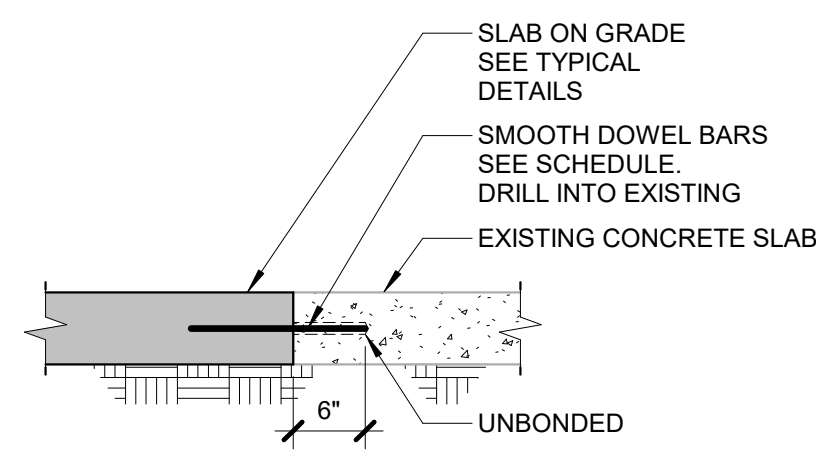
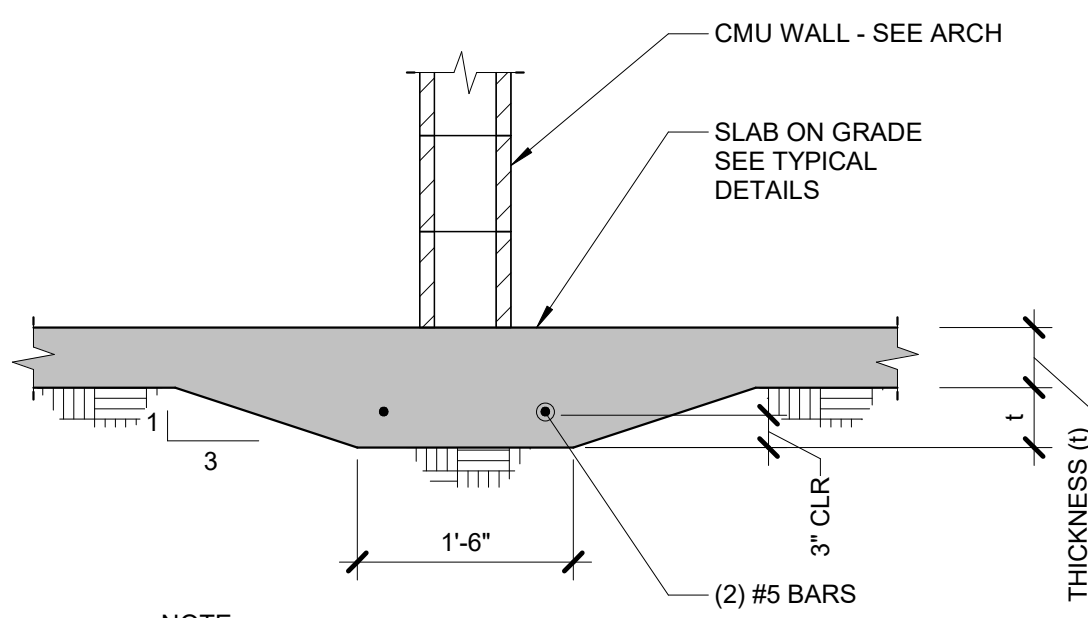
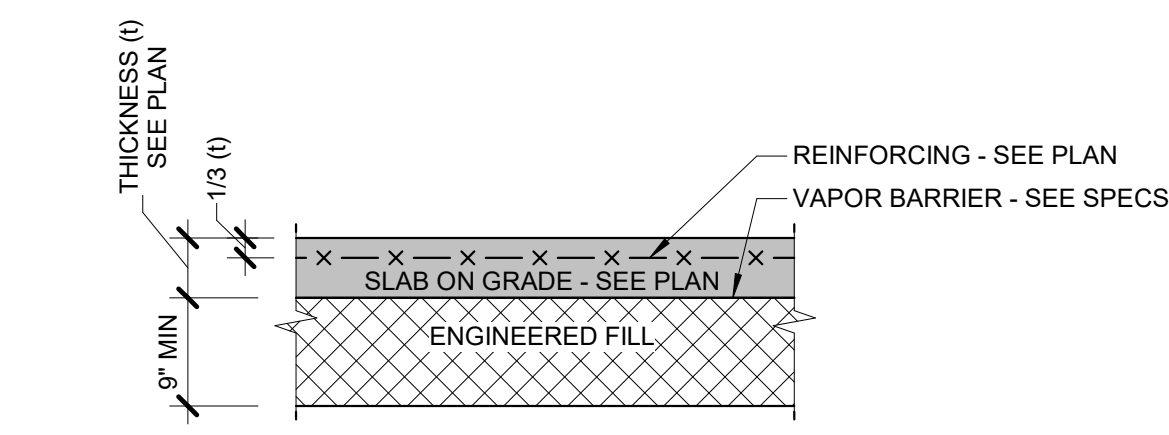
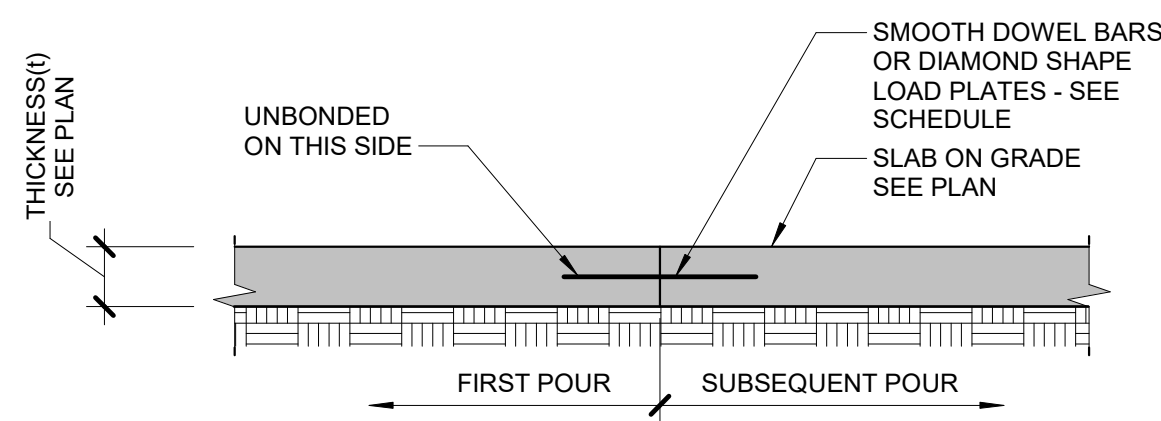
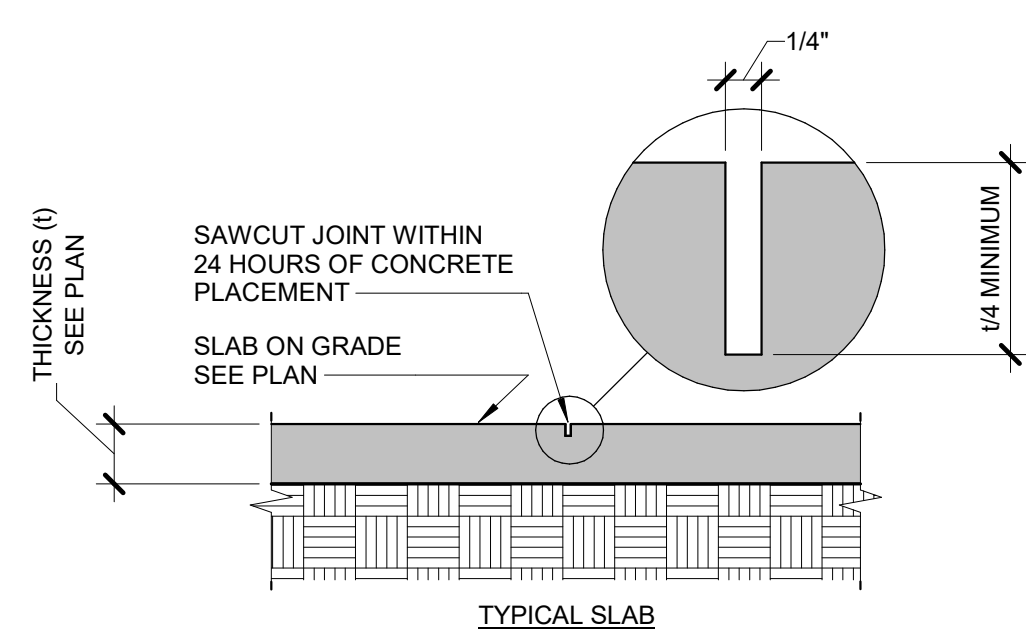
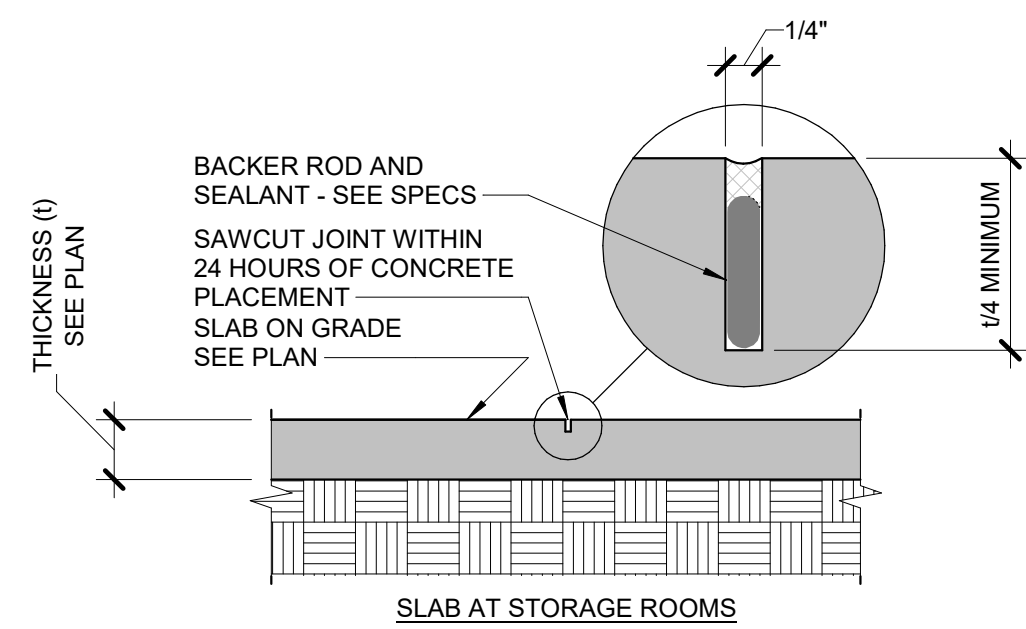
SIGNATURE
DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY SASMAH
CHECKED BY ERIREI

FOUNDATION PLAN



NOTES:
1. SEE CAST-IN-PLACE CONCRETE GENERAL NOTES CONCERNING LOCATION OF JOINTS.

1 CONTROL JOINT
3/4" = 1'-0"

2 TYPICAL CONSTRUCTION JOINT
3/4" = 1'-0"

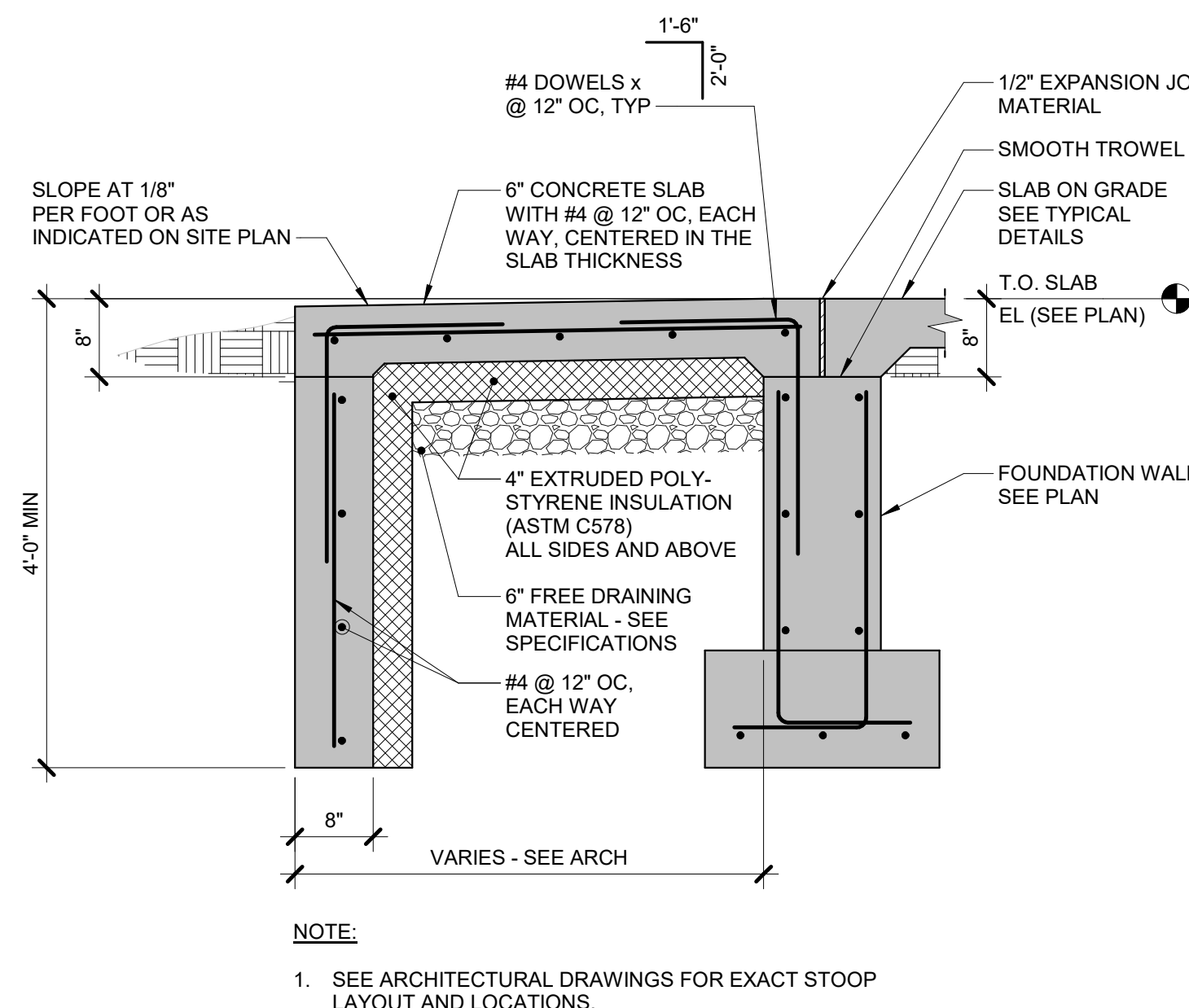
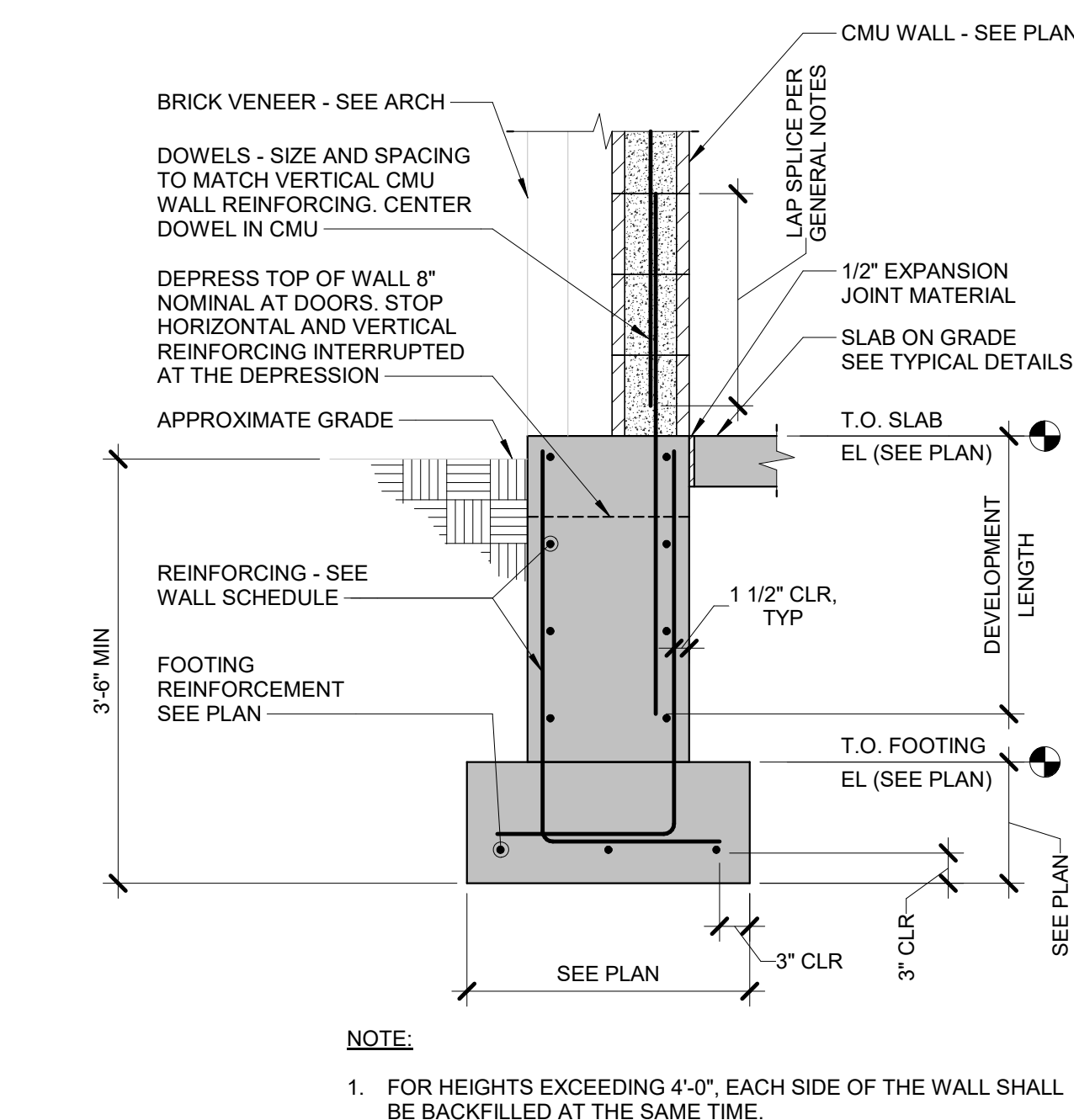
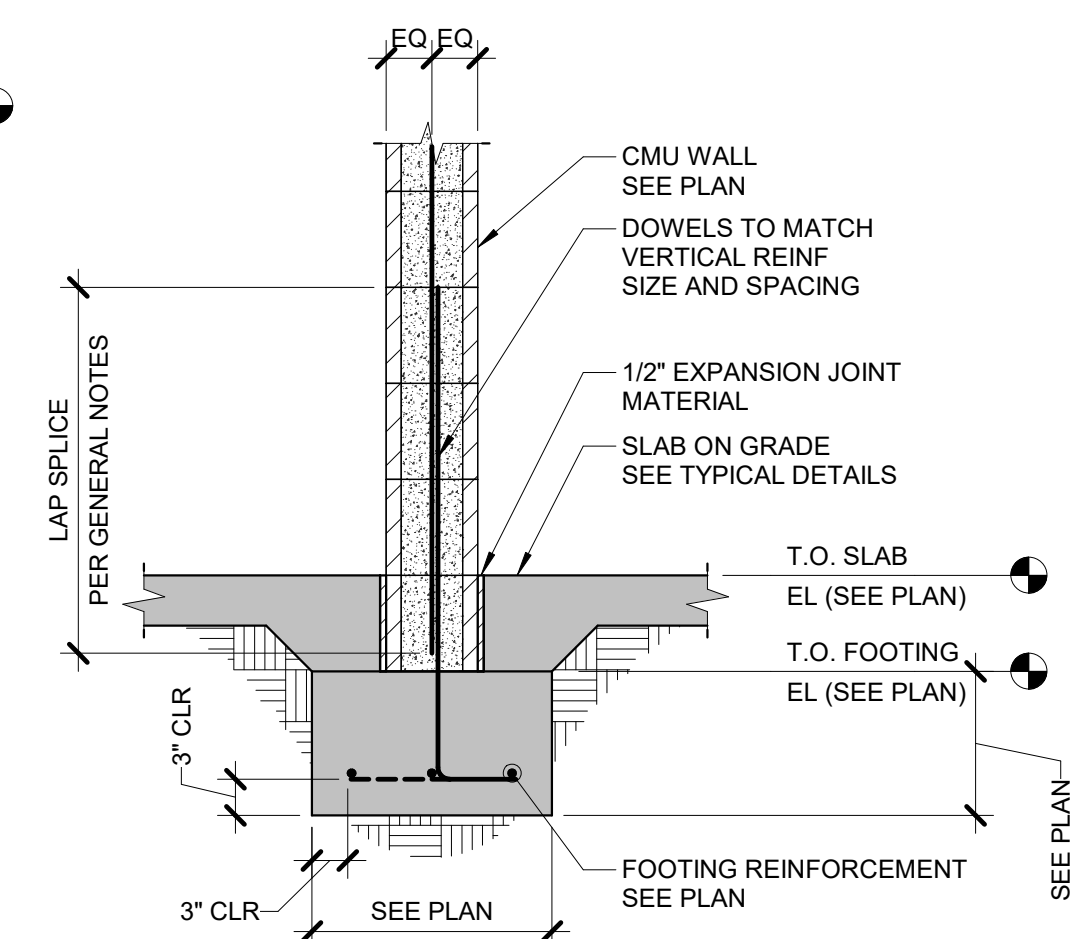
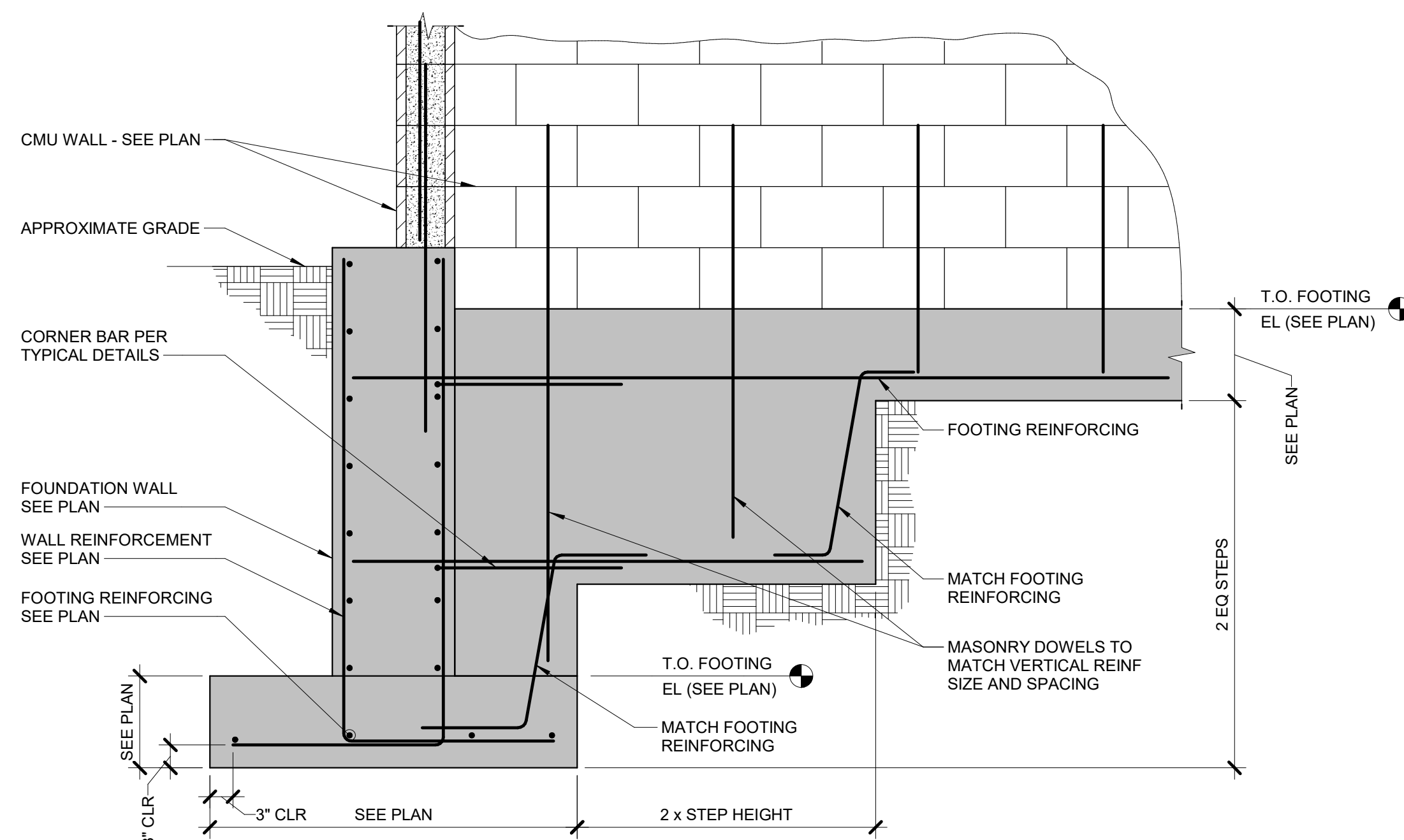
NOTES:
1. REFERENCE SPECIFICATIONS FOR MATERIAL AND COMPACTION REQUIREMENTS.
2. IF UNSUITABLE SOILS ARE ENCOUNTERED, REPLACE WITH ENGINEERED COMPACTED AND TESTED FILL OR PROVIDE ADDITIONAL TESTING AT THE TIME OF CONSTRUCTION TO ENSURE THE SUITABILITY OF THE EXISTING FILL.

3 TYPICAL SLAB SECTION
3/4" = 1'-0"

NOTE:
1. TO BE USED AT INTERIOR, NON-STRUCTURAL WALLS BRACED AT TOP OF THE WALL.

4 NON-STRUCTURAL CMU WALL DETAIL
3/4" = 1'-0"

5 NEW TO EXISTING SLAB DETAIL
3/4" = 1'-0"

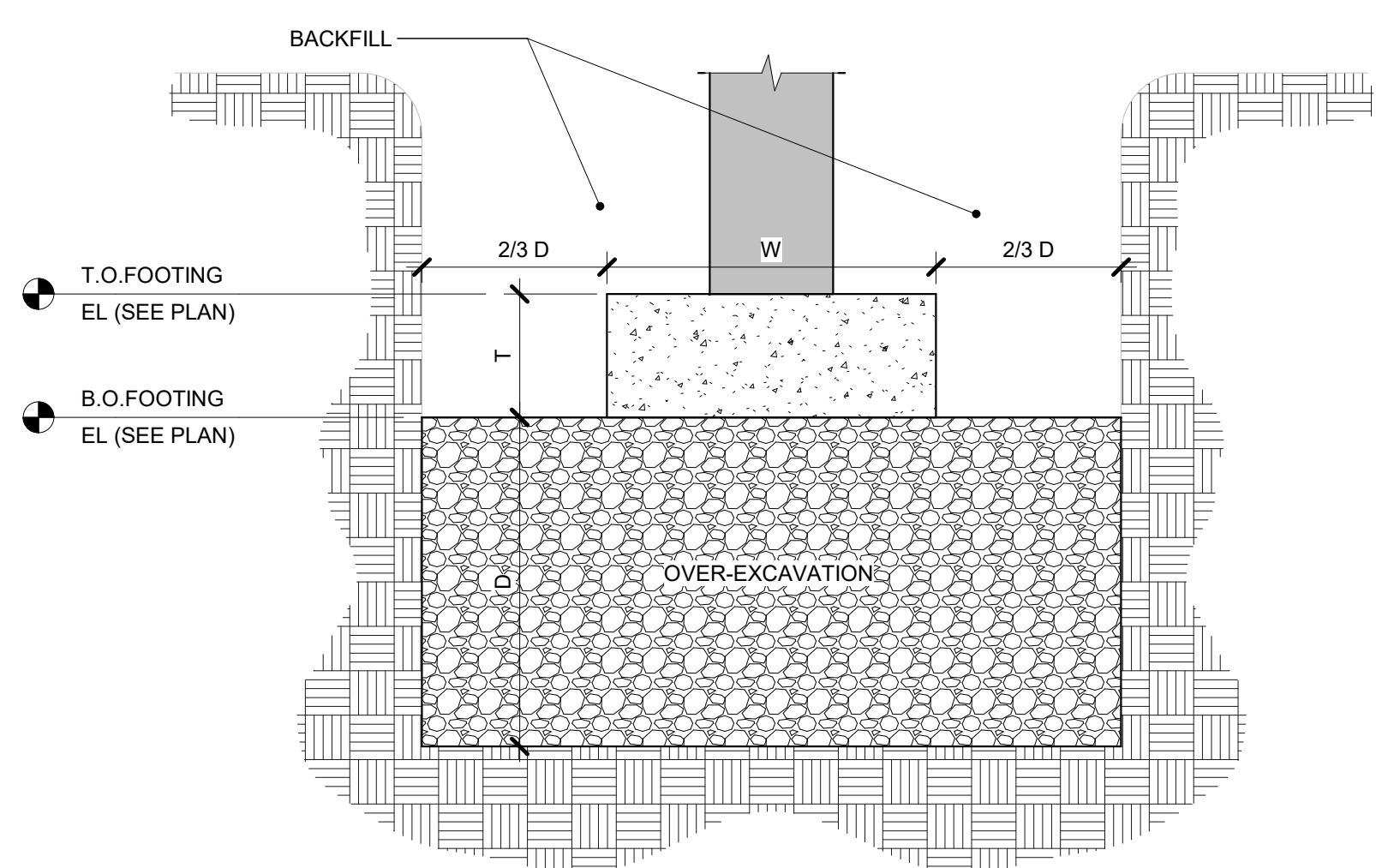


6 TYPICAL STEPPED FOOTING DETAIL
3/4" = 1'-0"

7 INTERIOR CMU WALL FOUNDATION
3/4" = 1'-0"

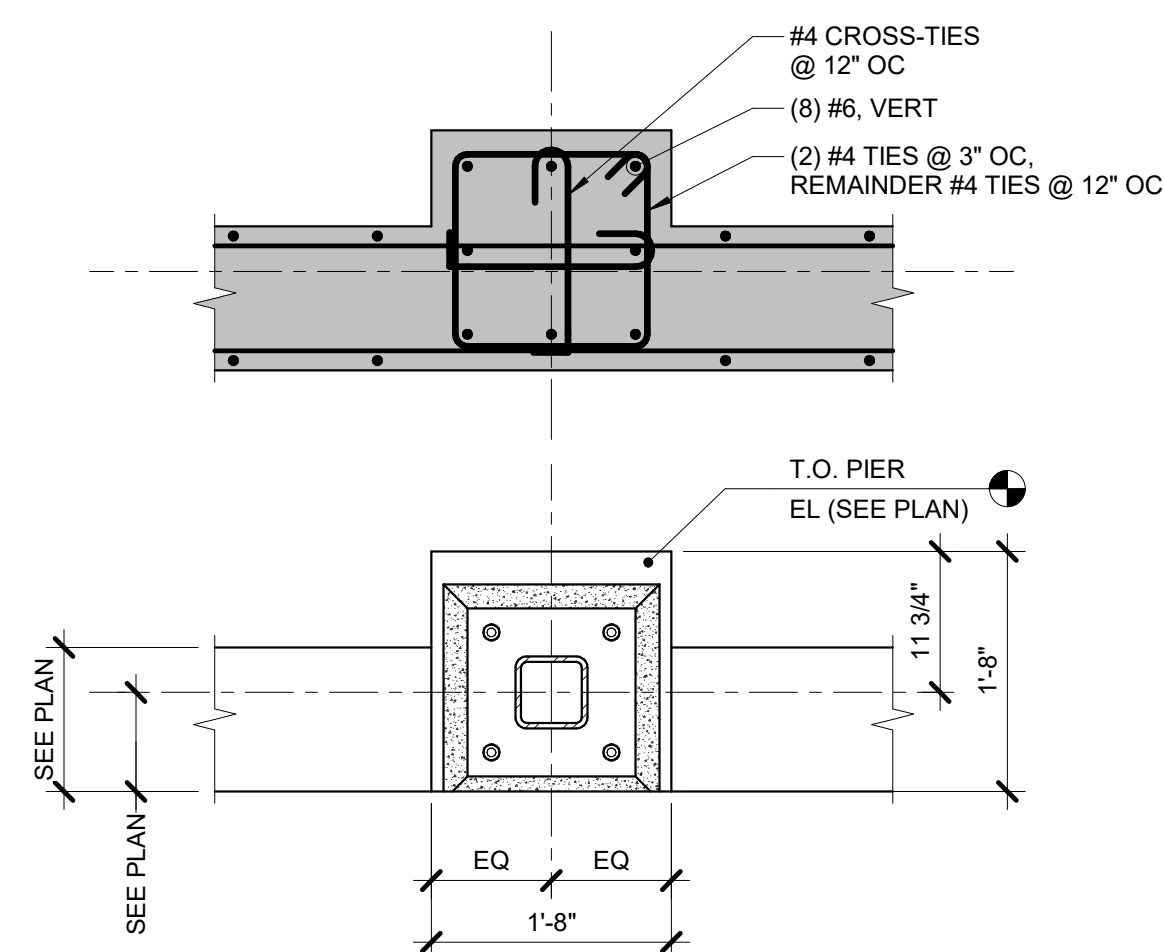
8 TYPICAL PERIMETER FROST WALL
3/4" = 1'-0"

9 TYPICAL STOOP DETAIL
3/4" = 1'-0"

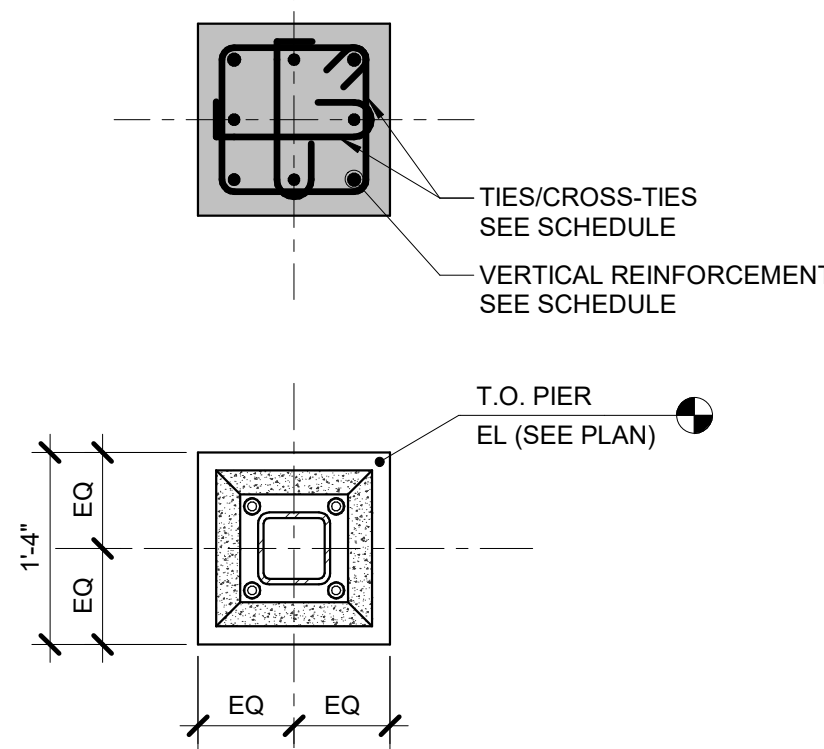


NOTES:
1. EXCAVATION ARE SHOWN VERTICAL; HOWEVER, THE SIDEWALLS SHOULD BE SLOPED AS NECESSARY FOR SAFETY.
2. REFER TO FOOTING SCHEDULE FOR T (THICKNESS) AND W (WIDTH) DIMENSIONS.
3. 'D' MAY RANGE FROM 3.5 FT TO 6.5 FT. ACTUAL VOLUME WILL BE BASED ON OVER-EXCAVATION AS DIRECTED BY GEOTECHNICAL CONSULTANT. ANOTHER OPTION CAN BE TO REMOVE THE UNSUITABLE SOILS DOWN TO SUITABLE SOILS AS INDICATED BY GEOTECHNICAL ENGINEERS AND REPLACE THE EXCAVATED AREA WITH LEAN CONCRETE (MIN. 50 PSI COMPRESSIVE STRENGTH), IN WHICH CASE WIDENING OF THE EXCAVATION WOULD NOT BE REQUIRED.
4. THE INTEND OF THIS DETAIL IS TO PROVIDE GUIDANCE IN AREAS WITH EXISTING FILL. EXISTING FILL TO BE REMOVED ENTIRELY FROM BELOW FOOTINGS. REPLACE OVEREXCAVATION WITH ENGINEERED COMPACTED AND TESTED FILL OR EXTEND FOOTINGS TO BEAR ON THE UNDERLYING NATURAL SOILS. INFORM EOR IS LATER OPTION CHOSEN.
5. BASE-BID VOLUME OF OVER-EXCAVATION: 200 CU YD
6. ACTUAL VOLUME WILL BE BASED ON OVER-EXCAVATION AS DIRECTED BY OWNER'S CONSTRUCTION SOIL CONSULTANT.

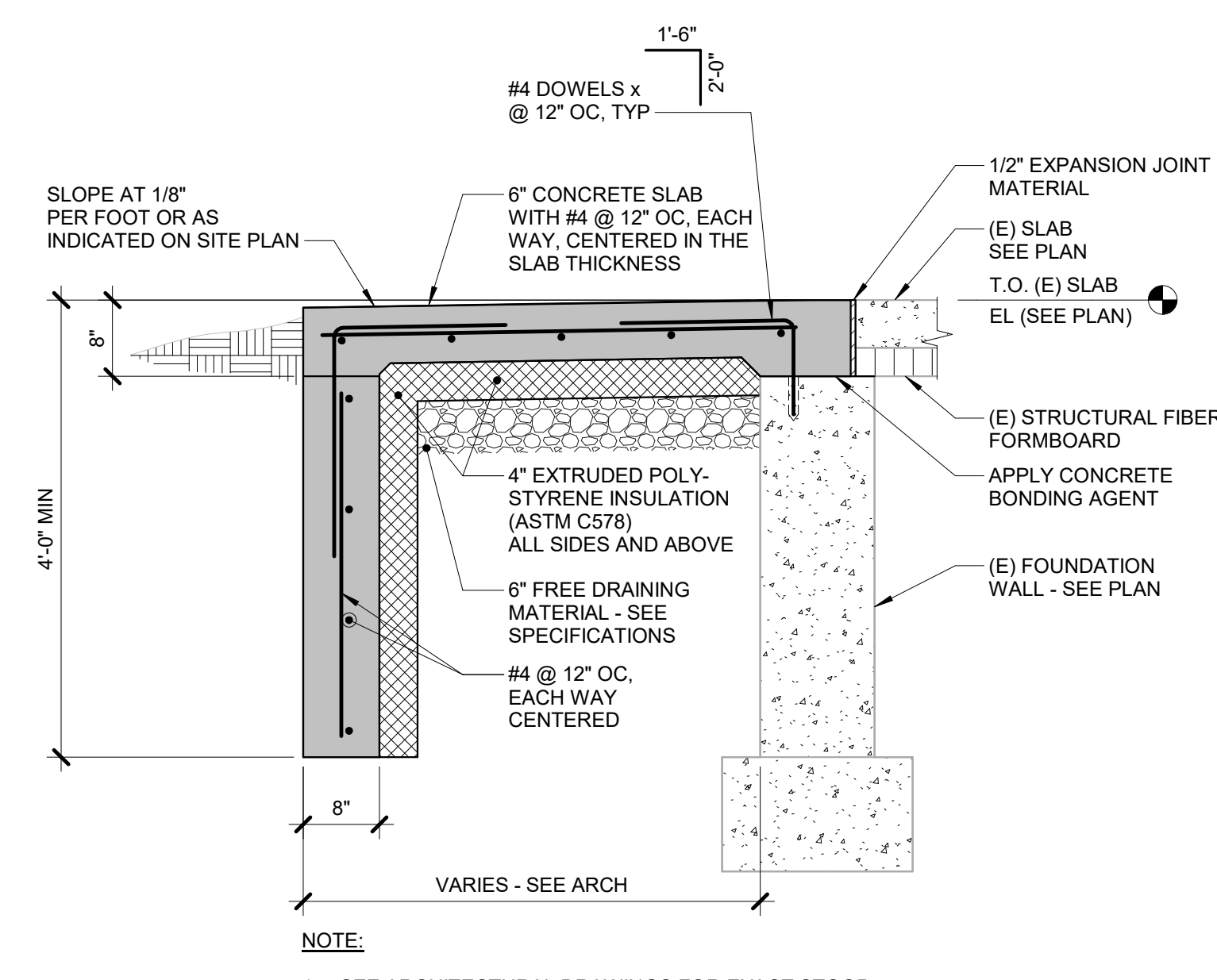
10 TYPICAL OVER-EXCAVATION DETAILS
3/4" = 1'-0"



11 PIER (P1) DETAIL
3/4" = 1'-0"



12 PIER (P2) DETAIL
3/4" = 1'-0"



13 STOOP AT EXISTING FOUNDATION
3/4" = 1'-0"

IMEG
623 26TH AVENUE
ROCK ISLAND, IL 61201
P: 309.788.0673 F: 309.788.0667
www.imegcorp.com
IMEG CORP. RESERVES PROPRIETARY RIGHTS, INCLUDING COPYRIGHTS, TO THIS DRAWING AND THE DATA SHOWN THEREON. SAID DRAWING AND/OR DATA ARE THE EXCLUSIVE PROPERTY OF IMEG CORP. AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN APPROVAL AND PARTICIPATION OF IMEG CORP. ©2022 IMEG CORP.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

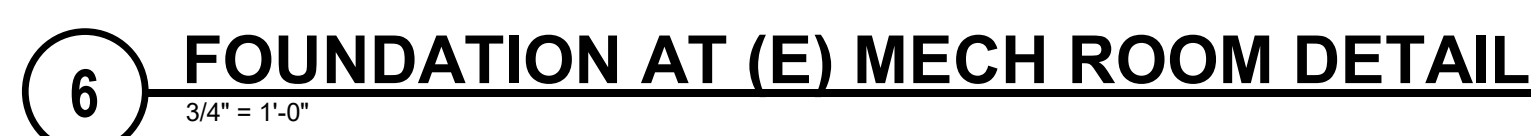
www.clevengerassoc.com

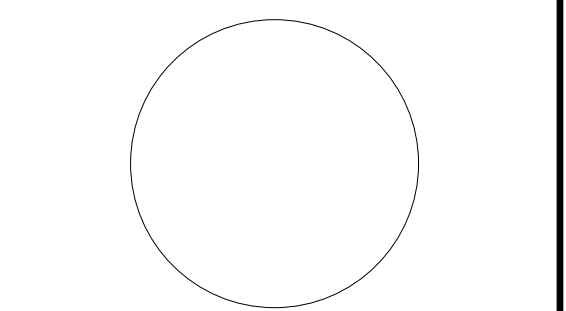
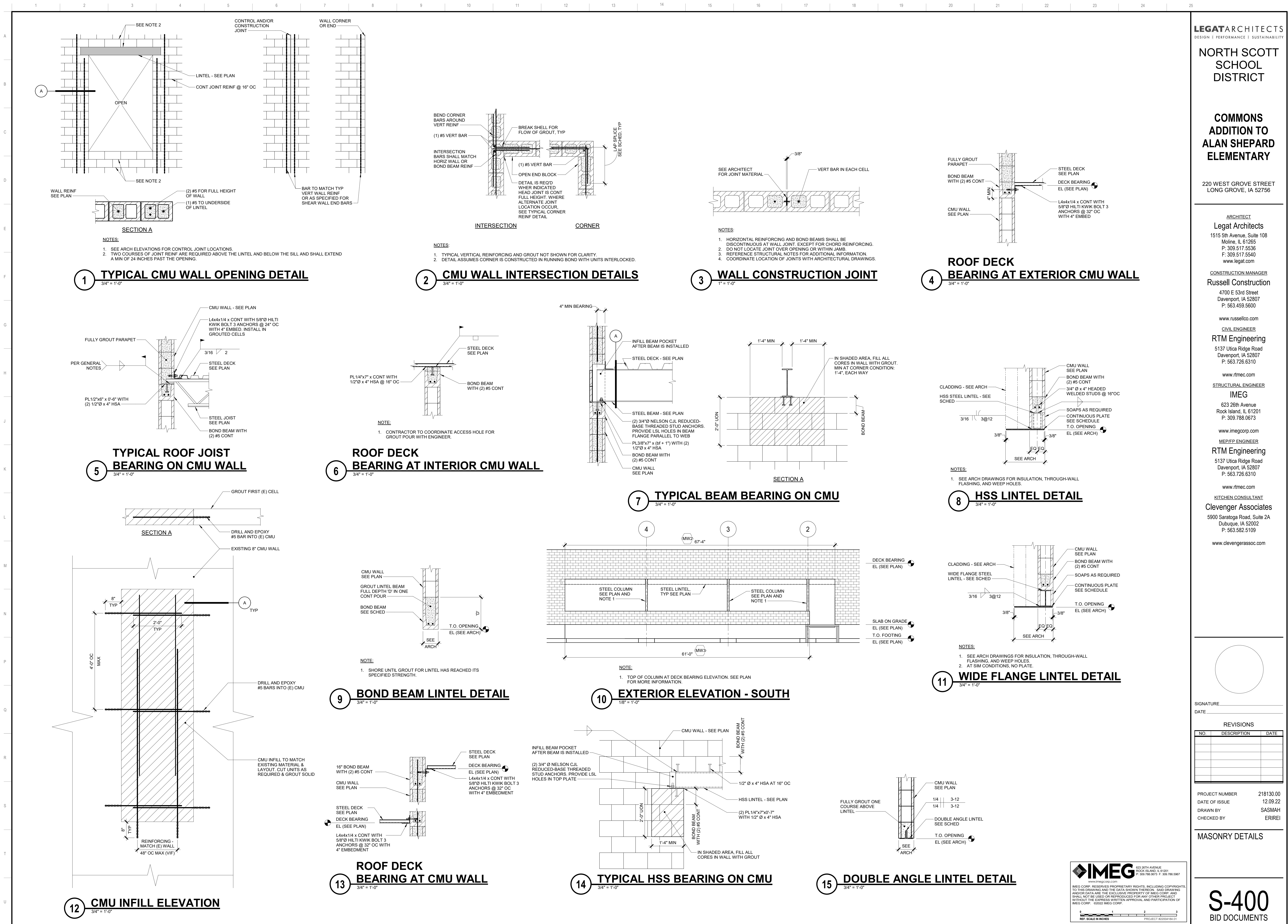
SIGNATURE		
DATE		
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY SASMAH
CHECKED BY ERIREI

FOUNDATION DETAILS

S-300
BID DOCUMENTS





SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY SASHMAH
CHECKED BY ERIREI

MASONRY DETAILS

NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

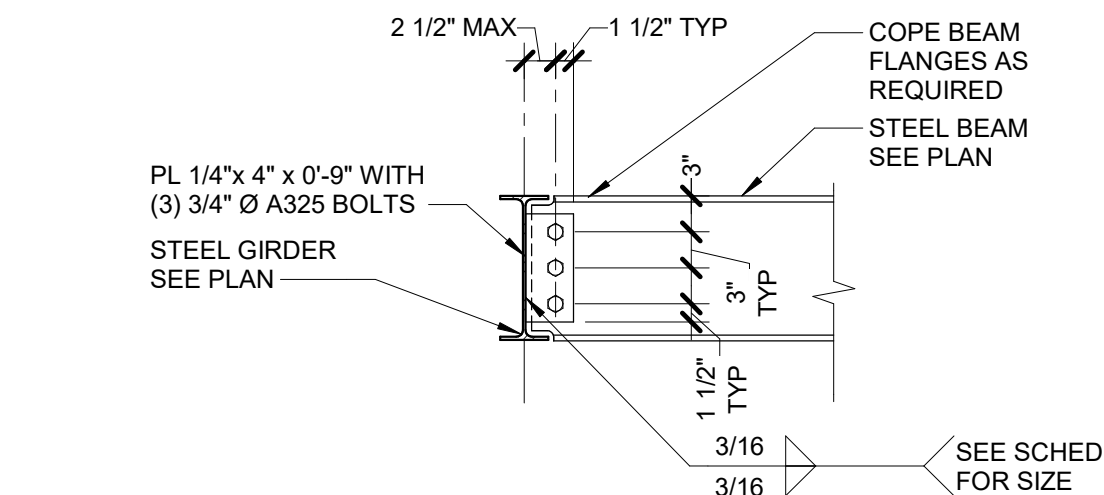
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

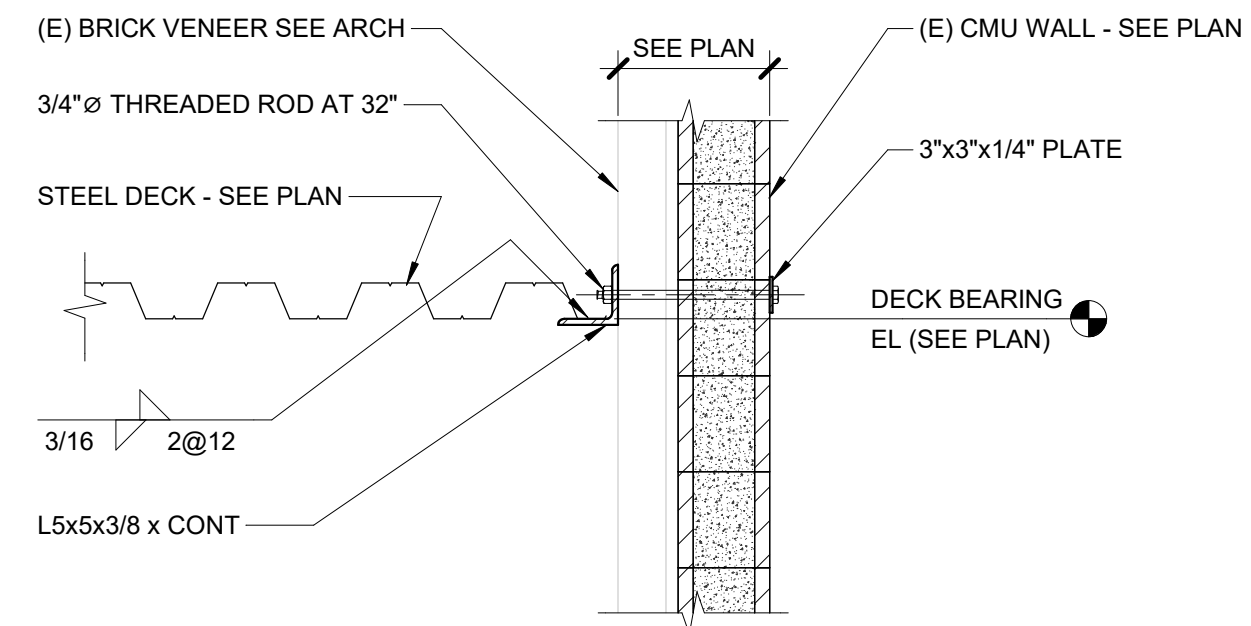
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY SASMAH
CHECKED BY ERIREI

STRUCTURAL DETAILS

S-500
BID DOCUMENTS

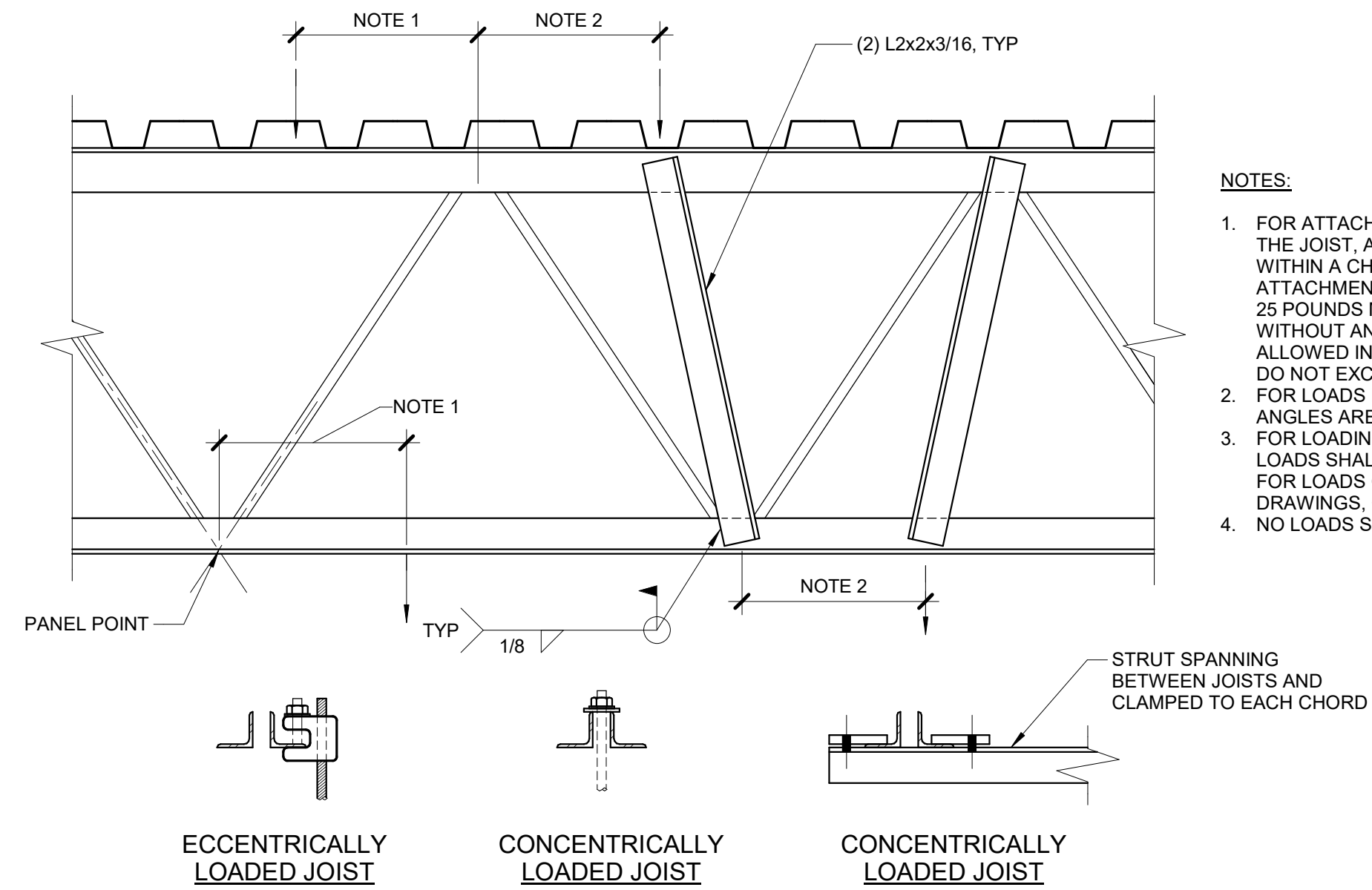


4 TYPICAL SHEAR
CONNECTION TO BEAM
3/4" = 1'-0"

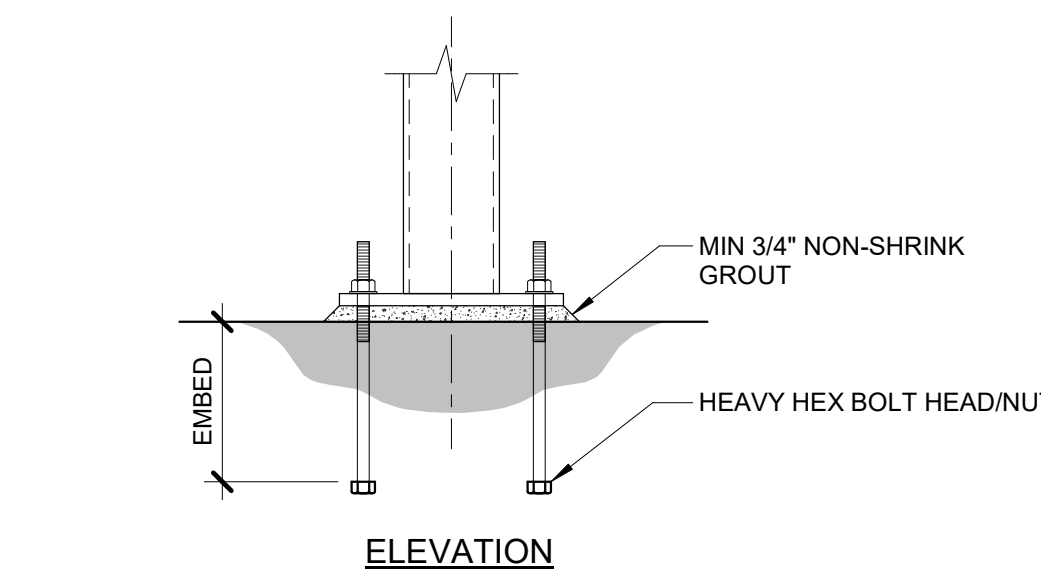
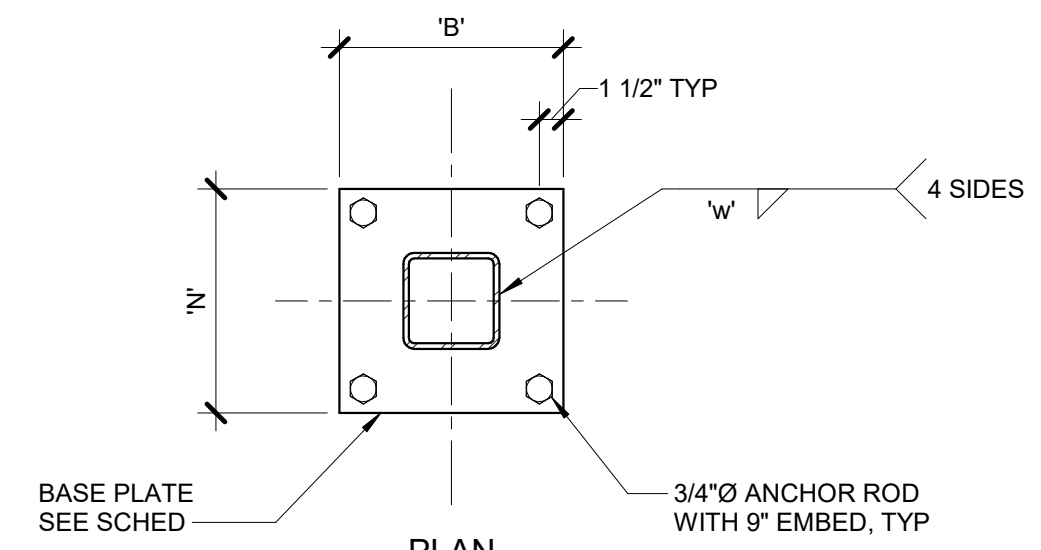


9 DECK BEARING AT
ELECTIRCAL ROOM
3/4" = 1'-0"

- NOTES:
1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED.
 2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED.
 3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS, CONTACT ENGINEER PRIOR TO INSTALLATION.
 4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

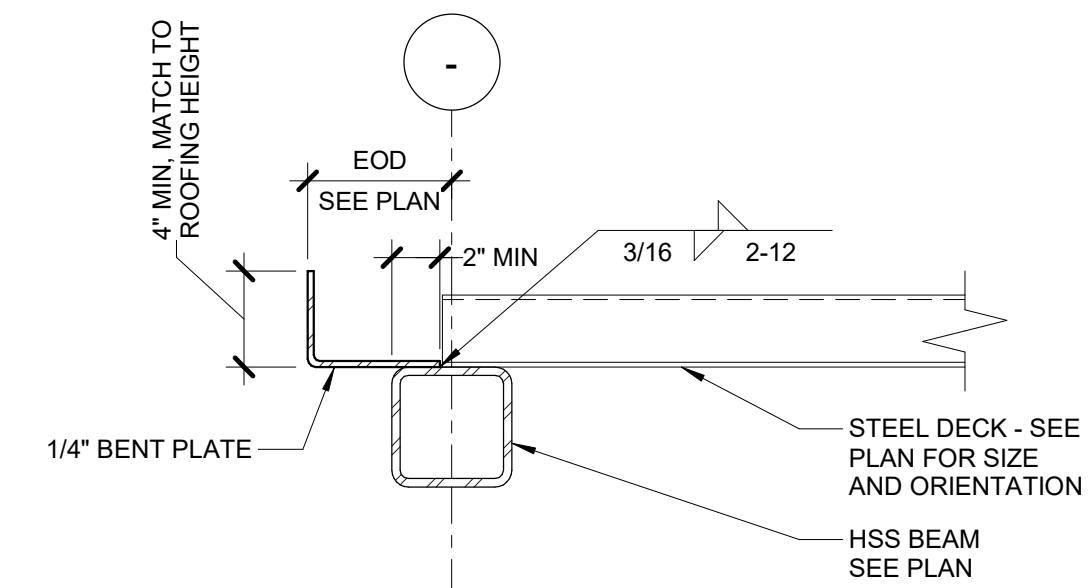


3 JOIST MODIFICATION DETAIL
1 1/2" = 1'-0"

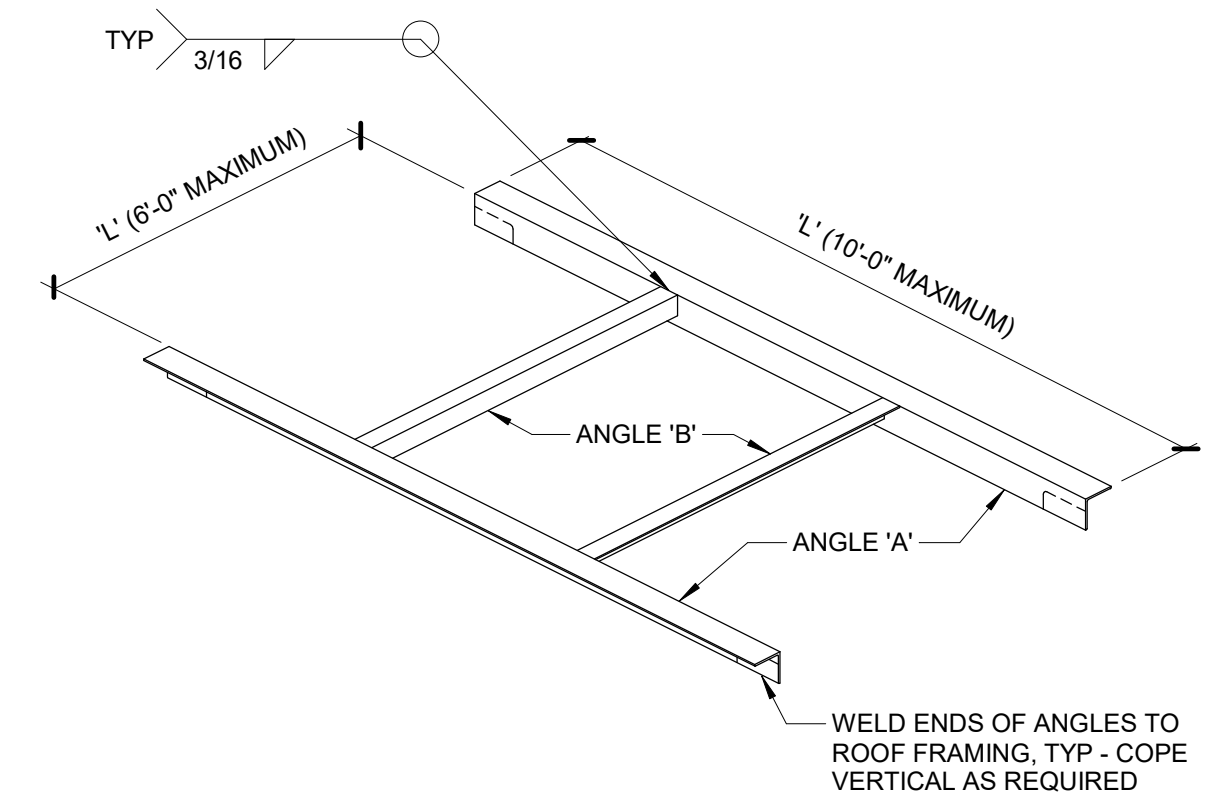


BASE PLATE SCHEDULE			
COLUMN	PLATE SIZE (T"xB"xW")	WELD (W)	REMARKS
BP1	3/4"x12" x 1'-0"	3/16	-
BP2	1" x 14" x 1'-2"	3/16	-

7 HSS COLUMN BASE PLATE
1" = 1'-0"



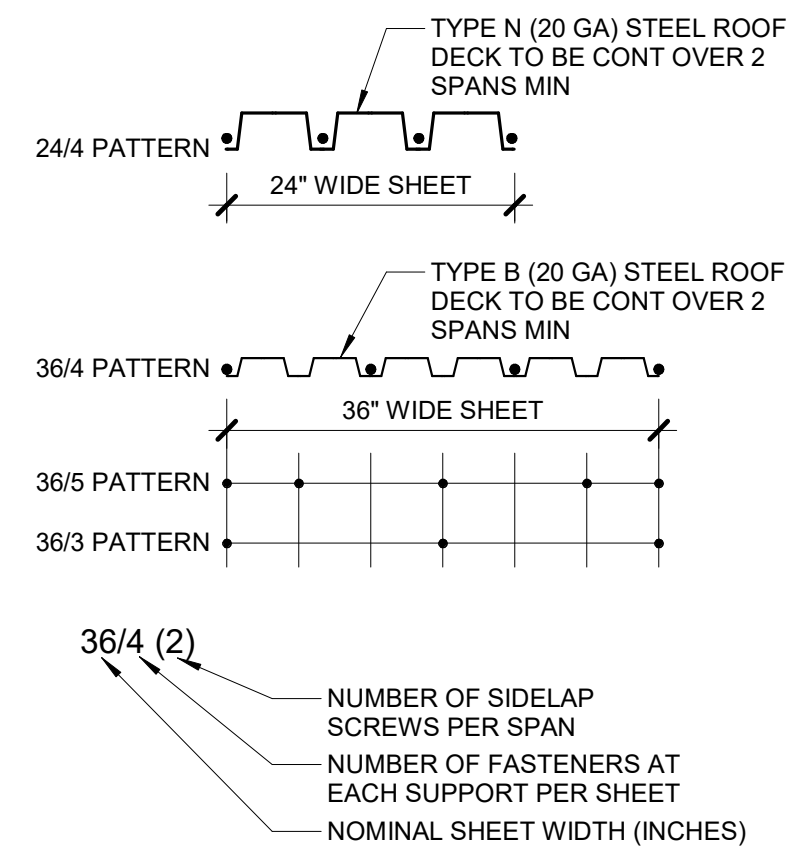
8 TYPICAL EOD AT CANOPY
1 1/2" = 1'-0"



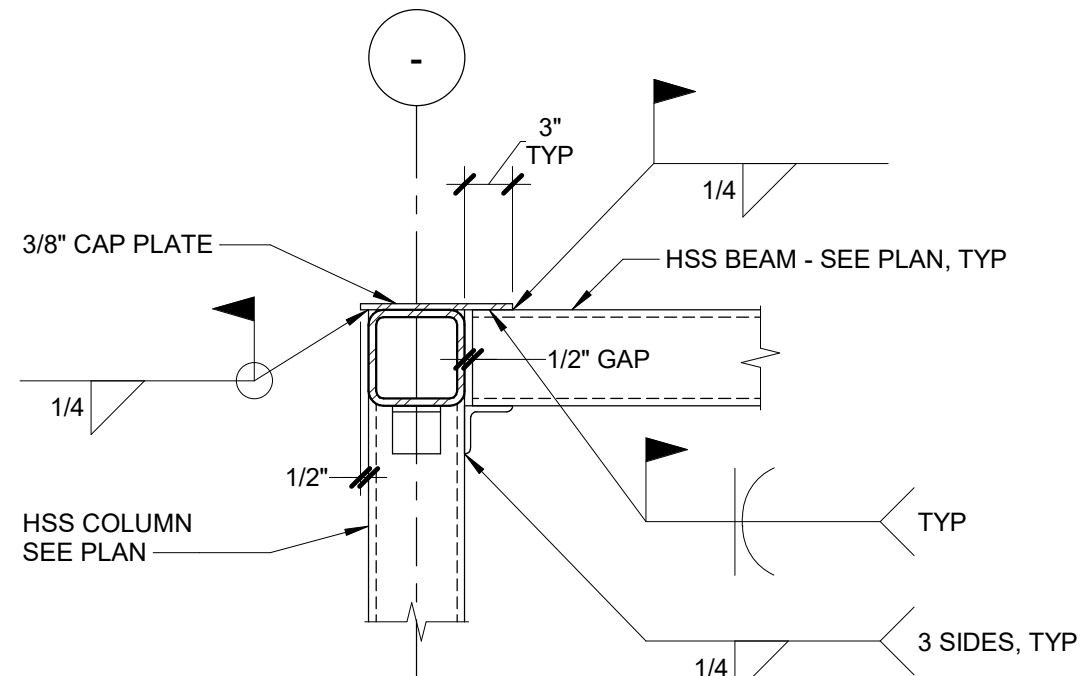
'L'	ANGLE 'A'	ANGLE 'B'
UP TO 1'-0"	NONE	NONE
1'-1" TO 4'-6"	L4x4x1/4	L4x4x1/4
4'-7" TO 6'-0"	L4x4x5/16	L4x4x1/4
6'-1" TO 8'-0"	L4x4x3/8	-
8'-1" TO 10'-0"	L6x4x3/8 (LLV)	-

- NOTES:
1. SEE ARCH AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL OPENINGS.
 2. ROOF OPENING FRAMING NOT REQUIRED AT SIDE DISCHARGE ROOF DRAINS. COORDINATE WITH MECHANICAL CONTRACTOR.

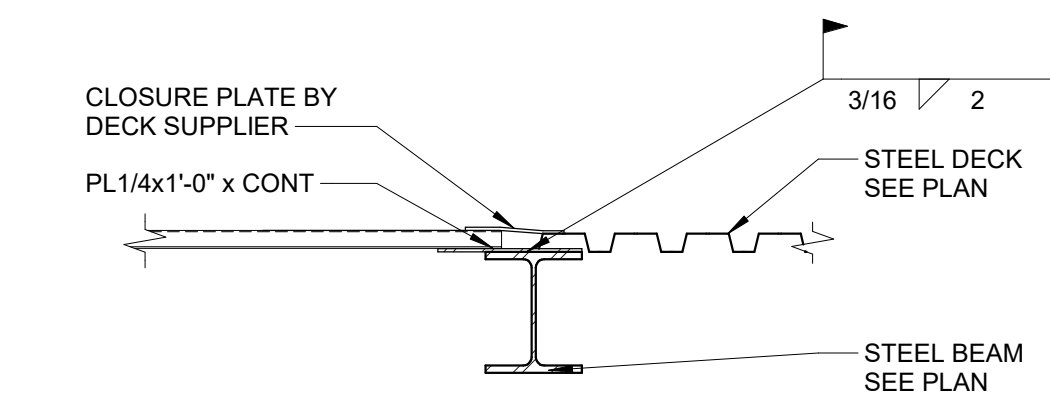
2 ROOF OPENING DETAIL
3/4" = 1'-0"



1 TYPICAL STEEL DECK
FASTENING DETAIL
3/4" = 1'-0"



5 HSS TO HSS CONNECTION
1" = 1'-0"



6 TYPICAL
DECK DIRECTION CHANGE
3/4" = 1'-0"



DEMOLITION LEGEND

D001.01

EXISTING WALLS TO REMAIN

D001.02

EXISTING WALLS TO BE DEMOLISHED

D001.03

LIMITS OF DEMOLITION WORK
- SEE MEPP DRAWINGS FOR ADDITIONAL
DEMOLITION REQUIREMENTS

D001.04

EXISTING DOORS TO REMAIN

D001.05

EXISTING DOORS TO BE DEMOLISHED

DEMOLITION PLAN GENERAL NOTES

1. REFERENCED DEMOLITION NOTES REFER TO THE MINIMUM AMOUNT OF DEMOLITION REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION. TRADE CONTRACTORS SHALL VISIT PROJECT SITE TO BECOME FAMILIAR WITH COMPLETE SCOPE OF REMOVALS/DEMOLITIONS AND FIELD VERIFY THE EXTENT OF DEMOLITION.

2. EXISTING DIMENSIONS AND HATCHED AREAS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD. THE ACTUAL AREA OF DEMOLITION SHOULD BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.

3. IN THE EVENT THAT AN EXISTING ITEM NOT SHOWN ON THE DRAWINGS CONFLICTS WITH WORK UNDER THIS CONTRACT, CONTACT THE ARCHITECT PRIOR TO REMOVAL OF THAT ITEM.

4. ALL UTILITIES SHALL REMAIN IN SERVICE FOR OTHER OCCUPANCIES. ANY SHUTDOWNS OF BUILDING MUST BE APPROVED BY OWNER AND OCCUR AT OFF HOURS AS DEFINED BY OWNER.

5. THE OWNER HAS FIRST RIGHT OF REFUSAL FOR ALL MATERIAL OR EQUIPMENT IDENTIFIED TO BE REMOVED. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.

6. REFER TO DRAWINGS FOR LOCATIONS OF ALL ITEMS TO BE REINSTALLED. ALL ITEMS NOT SPECIFICALLY INDICATED FOR REINSTALLATION ON DRAWINGS ARE TO BE TURNED OVER TO THE OWNER. ALL ITEMS NOT TURNED OVER TO THE OWNER SHALL BE DISPOSED OF PROPERLY AND LAWFULLY.

7. ALL REMOVED ITEMS IDENTIFIED FOR REINSTALLATION OR TO BE TURNED OVER TO THE OWNER SHALL BE PROTECTED UNTIL TIME OF REINSTALLATION OR OWNER POSSESSION. DAMAGED ITEMS SHALL BE REPAIRED OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR.

8. THROUGHOUT DEMOLITION AND CONSTRUCTION, PROTECT ITEMS SCHEDULED TO REMAIN AND/OR ALL ADJACENT MATERIALS AND EQUIPMENT, ETC. INDICATED TO REMAIN. COORDINATE REMOVAL AND PROTECTIONS WITH OWNER.

9. DO NOT COMMENCE DEMOLITION UNTIL OWNER HAS REMOVED ALL ARTWORK AND DISPLAYS FROM AREAS OF DEMOLITION.

10. COORDINATE WITH OWNER ACCESS AND LOCATIONS OF TEMPORARY PARTITION. TEMPORARY PARTITION MUST BE DUSTPROOF, AND ACT AS SMOKE AND FIRE BARRIER.

11. AT REMOVAL OF SELECTED DEMOLITION ITEMS WHERE NO NEW CONSTRUCTION IS IDENTIFIED, PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.

12. AT ITEMS TO BE REMOVED, ALSO REMOVE ALL ASSOCIATED BRACKETS, SUPPORTS, FASTENERS, ANCHORS, ETC. PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES.

13. PATCH ALL CEILINGS, WALLS AND FLOORS WHERE MECHANICAL, ELECTRICAL, TECHNOLOGY, PLUMBING AND FIRE PROTECTION COMPONENTS ARE TO BE REMOVED IN AN EXISTING CEILING, WALLS OR FLOORS TO REMAIN.

14. ALL WALL DEMOLITION SHALL HAVE CLEAN, VERTICAL, SMOOTH CUTS. PATCH, REPLACE AND/OR FILL VOIDS IN WALLS TO REMAIN TO PROVIDE A SMOOTH SURFACE/EDGE FOR THE APPLICATION OF NEW FINISH MATERIAL.

15. WHEN REMOVING EXISTING WALL TILE, FLOOR TILE, RUBBER BASE OR CEILING TILE, REMOVE FINISHES TO THE NEAREST JOINT WHICH ABUTS TILE NOT AFFECTED BY THE CONSTRUCTION. PROTECT THE SURFACES AND EDGES OF EXISTING FINISHES TO REMAIN.

16. AT IDENTIFIED AREAS OF SPALLED, UNEVEN AND/OR SEPARATED CONCRETE SLABS, REMOVE ALL LOOSE MATERIAL, GRIND CONCRETE TO ACHIEVE A LEVEL SURFACE AND FILL CRACKS AND SPALLED AREAS IN PREPARATION FOR INSTALLATION OF FINISHED FLOORING.

17. CONTRACTOR SHALL REMOVE EXISTING PLUMBING, MECHANICAL, ELECTRICAL OR OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE NEW WORK BUT NOT REQUIRED TO REMAIN.

18. WHEN REMOVING INTERIOR OR EXTERIOR WALL ASSEMBLIES, CONTRACTOR SHALL ALSO REMOVE ALL ASSOCIATED POWER AND DATA RECEPTACLES, SWITCHES, ETC. PERCUTE CONCEALED WHERE REQUIRED TO MAINTAIN FUNCTIONING SYSTEMS, REMOVE ABANDONED MEPP SYSTEMS TO SOURCE AND CAP APPROPRIATELY. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, LOW VOLTAGE, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

19. CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS.

20. CONTRACTOR SHALL RECYCLE DEMOLITION CONSTRUCTION DEBRIS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND SUSTAINABLE BEST PRACTICES.

21. IN THE EVENT HAZARDOUS MATERIALS ARE UNCOVERED CONTRACTOR IS TO NOTIFY THE CONSTRUCTION MANAGER AND THE APPROPRIATE AUTHORITIES. THE ARCHITECT IS NOT RESPONSIBLE FOR REMOVAL/ABATEMENT OF HAZARDOUS MATERIALS. CONTRACTOR TO PROVIDE REMOVAL/ABATEMENT AT LOCATIONS NECESSARY.

22. REFER TO THE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS FOR THE DEMOLITION WORK SPECIFIC TO THOSE DISCIPLINES.

23. STRUCTURAL ITEMS SHOWN AS TO BE REMOVED ARE FOR REFERENCE ONLY. VERIFY APPROPRIATE SHORING OR REINFORCEMENT CONDITION WITH STRUCTURAL DRAWINGS.

DEMOLITION NOTES < D##.## >	
NOTE	DESCRIPTION
D02.01	REMOVE EXISTING STORAGE SHED.
D02.02	REMOVE EXISTING FENCE ENCLOSURE SYSTEM IN ITS ENTIRETY.
D03.01	REMOVE EXISTING STOOP SYSTEM AND PREPARE FOR NEW FLOOR SLAB
D04.01	REMOVE PORTION OF EXISTING MASONRY WALL SYSTEM AND WINDOW ABOVE AND PREP SURFACES FOR INSTALLATION OF NEW STOREFRONT SYSTEM.
D07.01	REMOVE EXISTING AWNING SYSTEM.
D07.02	REMOVE EXISTIN DOWNSPOUT AND PROVIDE NEW DRAIN ONTO ADDITION.
D07.03	REMOVE EXISTING METAL WALL PANEL SYSTEM ENTIRELY. PROVIDE FACE BRICK INFILL TO MATCH EXISTING. TOOTH IN FULL UNITS.
D07.04	REMOVE EXISTING METAL WALL PANEL SYSTEM ENTIRELY. PROVIDE CMU INFILL. TOOTH IN FULL UNITS.
D07.05	REMOVE EXISTING MANGARD METAL PANEL SYSTEM AND COPING. MODIFY EXISTING FRAMING TO PROVIDE APPROPRIATE SUBSTRATE FOR NEW METAL WALL PANEL SYSTEM. MODIFY CORNERS OF MANGARD ACCORDINGLY. REFER TO PHOTOS ON SHEET FOR ADDITIONAL INFORMATION.
D08.01	REMOVE EXISTING DOOR AND FRAME ENTIRELY. INFILL OPENING WITH NEW MASONRY TO MATCH EXISTING AND PAINT TO MATCH. PATCH AND REPAIR ADJACENT SURFACES AS REQUIRED.
D08.02	REMOVE EXISTING STOREFRONT SYSTEM. PATCH AND REPAIR WALL TO MATCH SURROUNDING WALL FINISHES.
D08.03	REMOVE EXISTING WINDOW SYSTEM ENTIRELY. PROVIDE MASONRY INFILL TO MATCH EXISTING. TOOTH IN FULL UNITS.
D09.01	REMOVE EXISTING SOFFIT SYSTEM, LIGHTS, FASCIA, ETC. AS REQUIRED FOR INSTALLATION OF NEW CONSTRUCTION.
D26.01	REMOVE EXISTING EXTERIOR LIGHT FIXTURE ENTIRELY. PATCH AND REPAIR.
D26.02	REMOVE EXISTING CARD READER SYSTEM.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/EFP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____
DATE _____

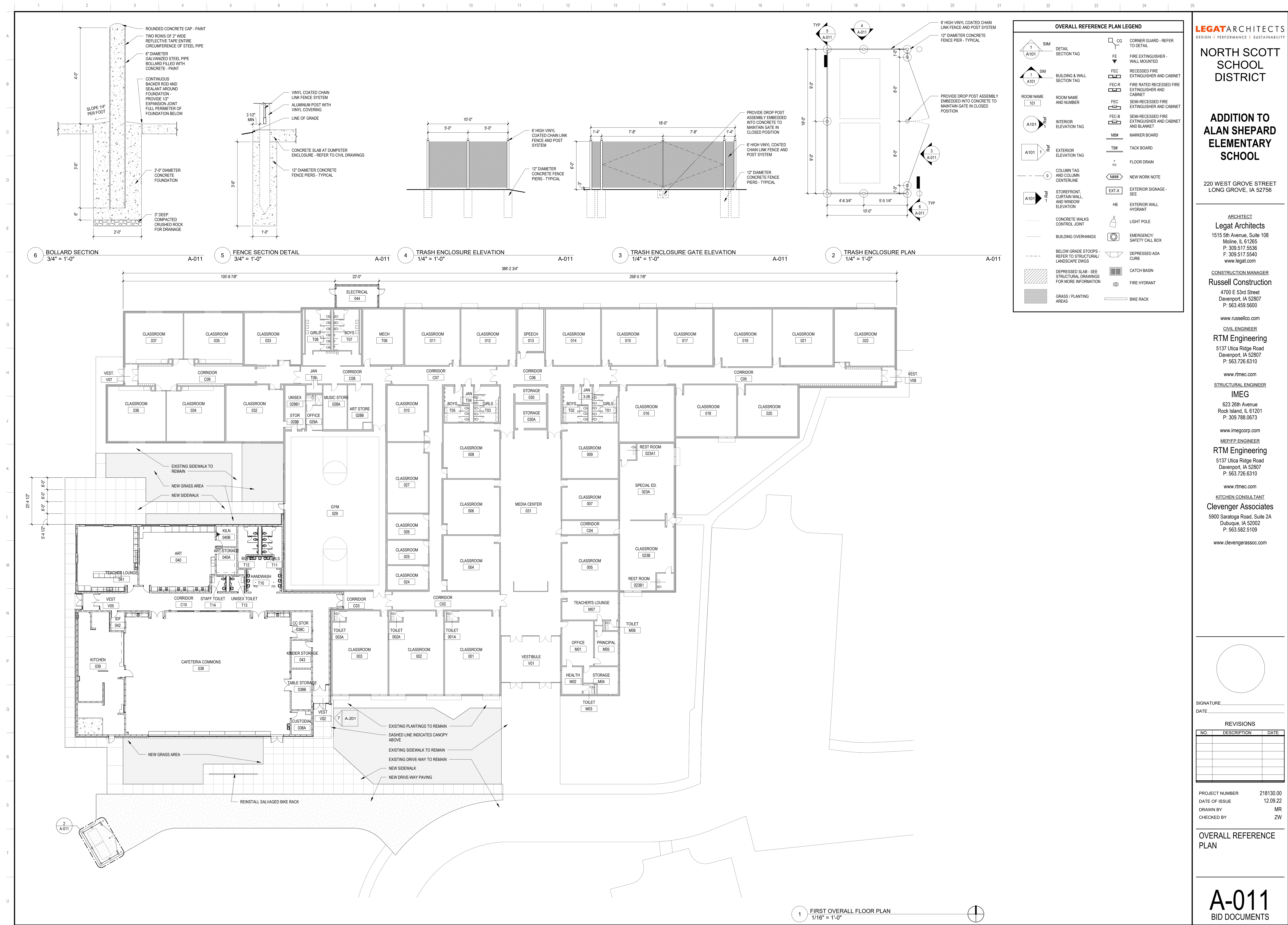
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

FIRST FLOOR
DEMOLITION PLAN

AD101
BID DOCUMENTS



NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

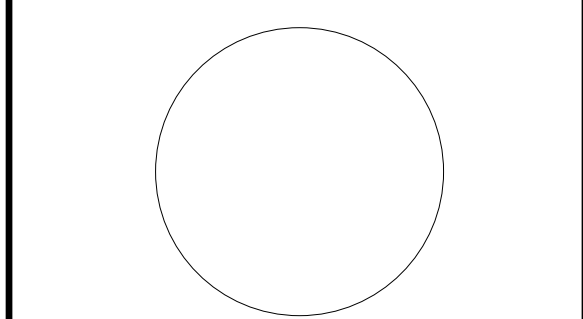
www.imegcorp.com

MED/PEP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

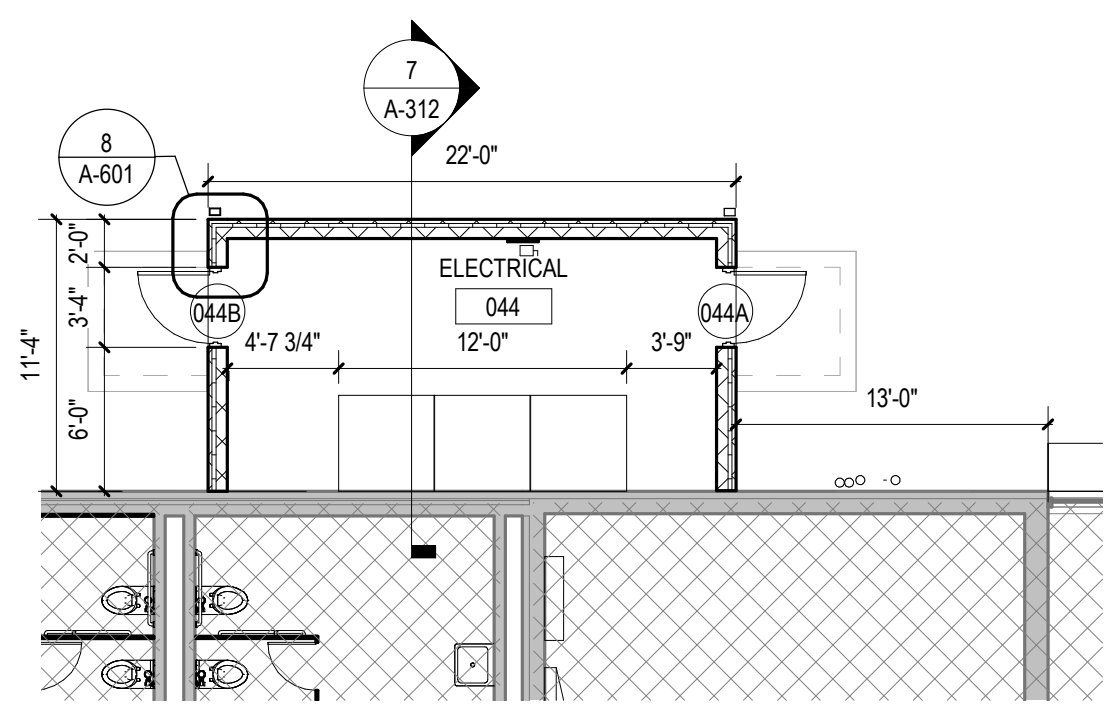
OVERALL REFERENCE
PLAN

A-011

BID DOCUMENTS

GENERAL NOTES

1. ALL INTERIOR WALLS TO BE M8 UNLESS OTHERWISE NOTED.
2. PROVIDE 1" BULLNOSE CORNERS AT ALL EXTERIOR CORNERS.
3. PROVIDE DOUBLE BULLNOSE AT ALL OPENINGS.



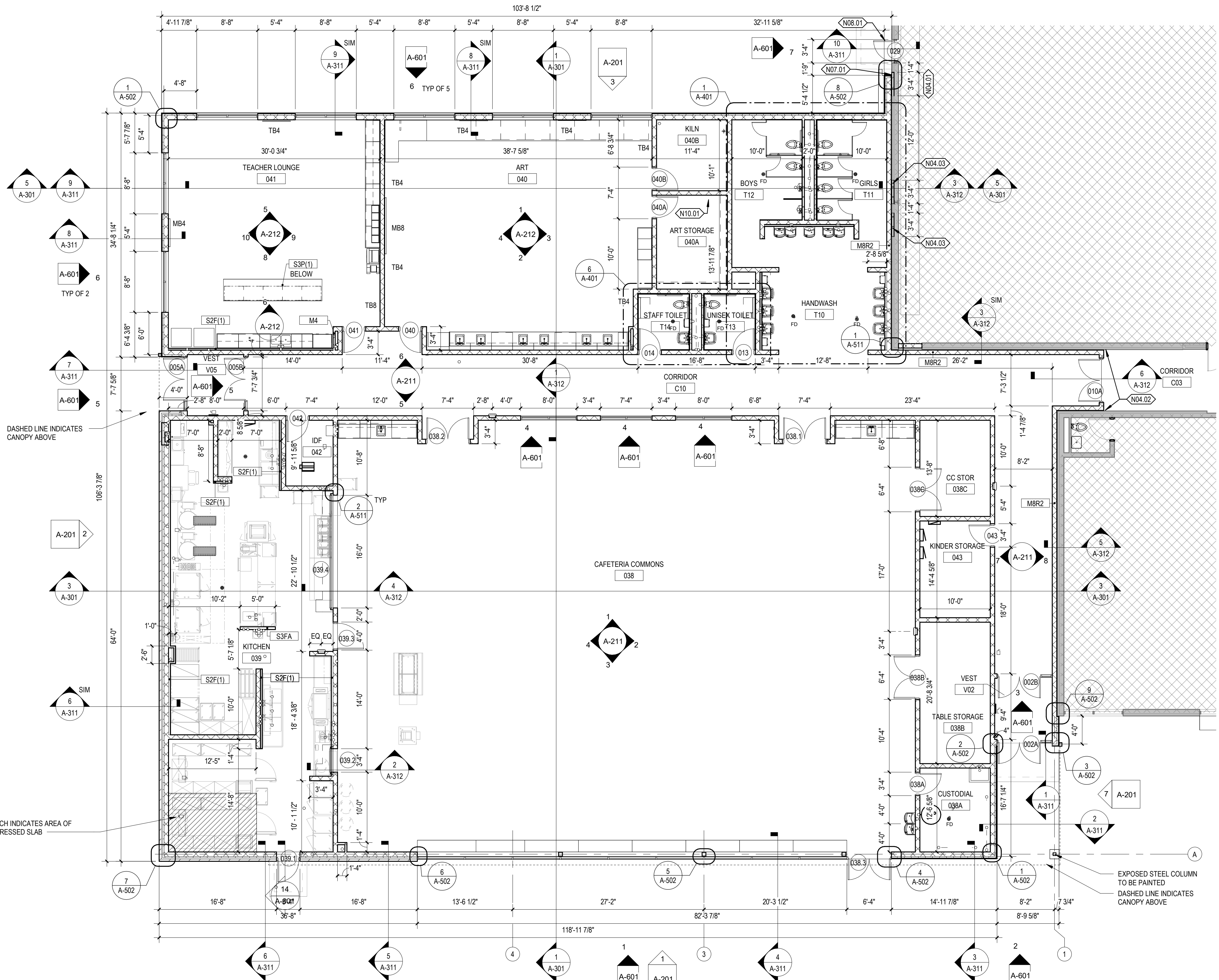
2 FIRST FLOOR PLAN - ELECTRICAL ROOM
1/8" = 1'-0"

FLOOR PLAN LEGEND

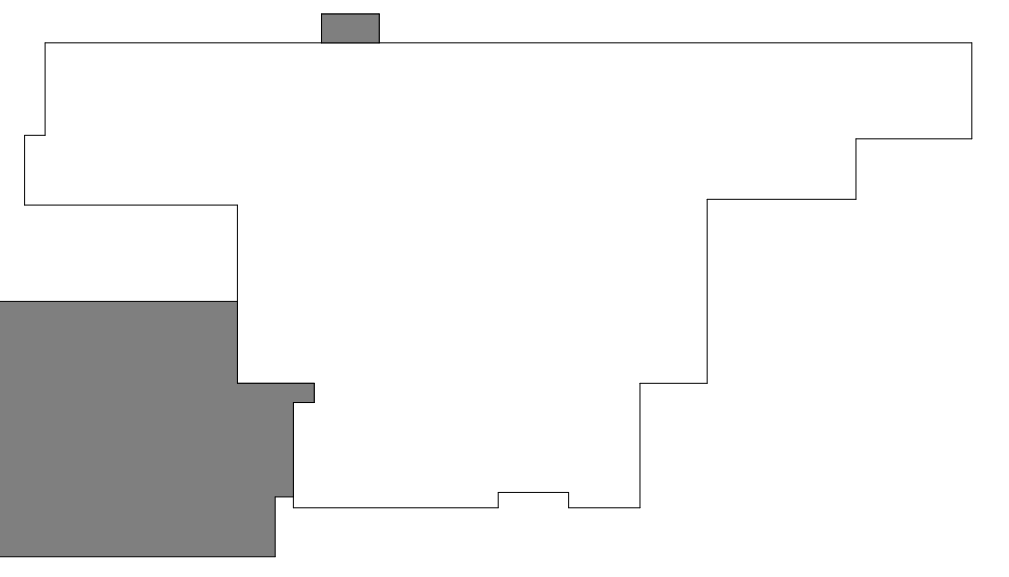
	1 A101 SIM		CG	CORNER GUARD - REFER TO DETAIL
	1 A101 SIM		FE	FIRE EXTINGUISHER - WALL MOUNTED
	WALL TYPE - REFER TO A-611		FEC	RECESSED FIRE EXTINGUISHER AND CABINET
	DOOR NUMBER - REFER TO A-601		FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
	ROOM NAME AND NUMBER		FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
	INTERIOR ELEVATION TAG		FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
	EXTERIOR ELEVATION TAG		MB#	MARKER BOARD
	COLUMN TAG AND COLUMN CENTERLINE		TB#	TACK BOARD
	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION		FD	FLOOR DRAIN
				DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION
			N#	NEW WORK NOTE

ARCHITECTURAL PLAN NOTES

NOTE	DESCRIPTION
A04.01	PROVIDE FACE BRICK INFILL TO MATCH EXISTING WHERE EXISTING METAL PANEL AND WINDOW SYSTEM WERE REMOVED.
A04.02	PATCH AND REPAIR EXISTING MASONRY WHERE STOREFRONT WAS REMOVED.
A04.03	PROVIDE CMU INFILL WHERE EXISTING METAL PANEL AND WINDOW SYSTEM WERE REMOVED.
A07.01	PROVIDE FIRE RATED EXPANSION JOINT.
A08.01	NEW STOREFRONT SYSTEM INSTALLED IN OPENING IN EXISTING WALL CREATED BY REMOVAL OF EXISTING WINDOW SYSTEM AND EXISTING WALL BELOW.
A10.01	PROVIDE LADDER TO ROOF HATCH.



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



KEY PLAN

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEDICAL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00

DATE OF ISSUE 12.09.22

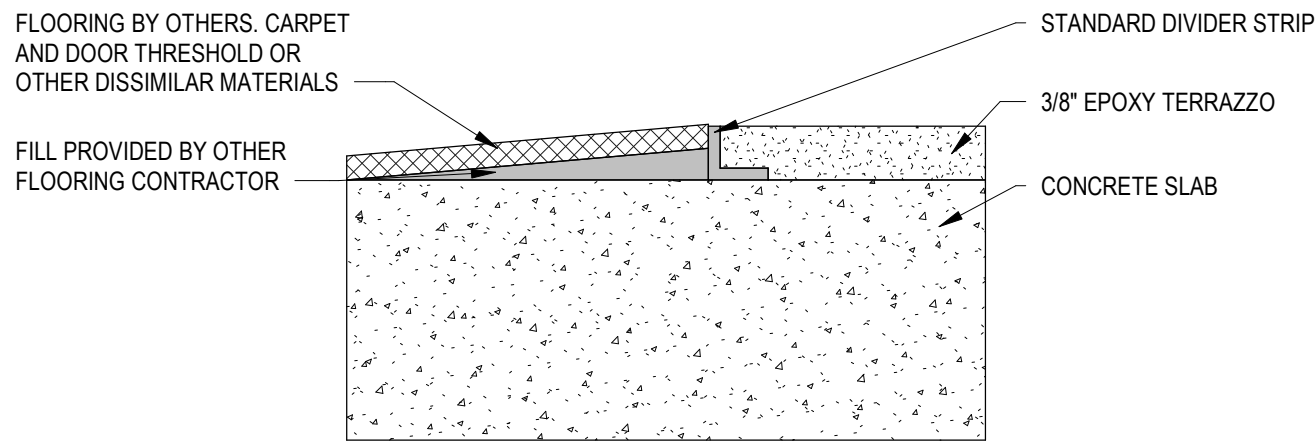
DRAWN BY MR

CHECKED BY ZW

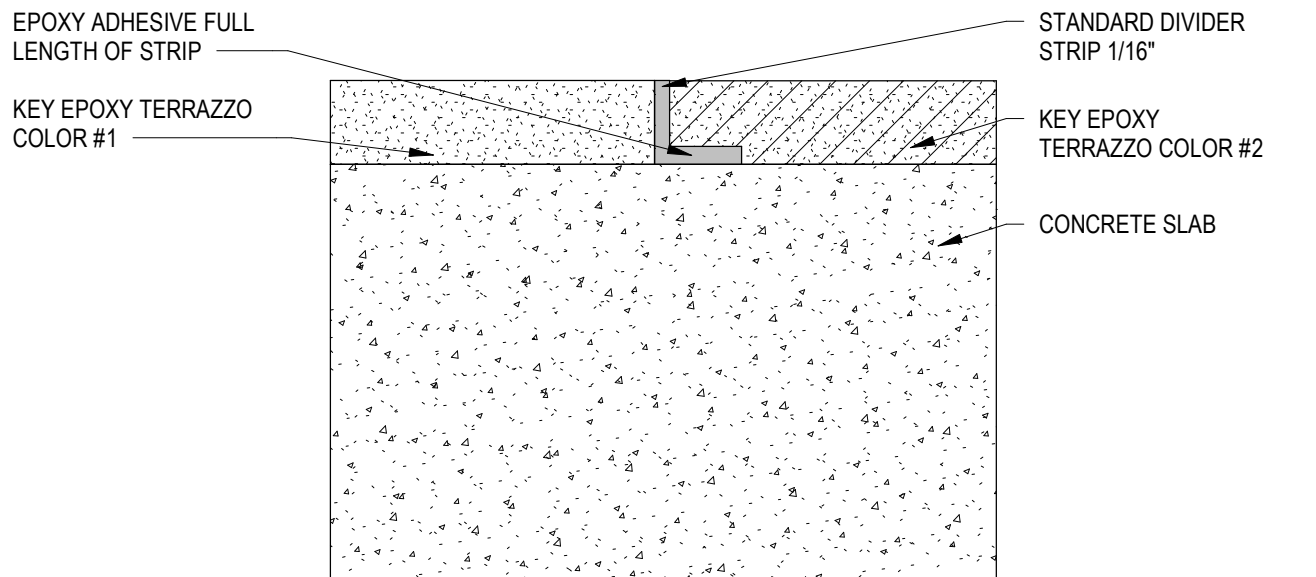
FIRST FLOOR PLAN

FINISH LEGEND & SCHEDULE (Basis of Design)		
CWT-1	CERAMIC WALL TILE GRAY FIELD	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: SUEDE GRAY SIZE: 4" X 16"
CWT-2	CERAMIC WALL TILE ACCENT RED	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: CURRANT SIZE: 4" X 16"
CWT-3	CERAMIC WALL TILE WHITE BACKSPLASH	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: ARTIC WHITE SIZE: 4" X 16"
CWTB-1	CERAMIC WALL BASE	MANUF: DALTILE STYLE: LINEAR COLOR WHEEL COLOR: SUEDE GRAY SIZE: 4" X 16"
EMS	ENTRANCE MAT SYSTEMS	MANUF: SHAW CONTRACT STYLE: WELCOME II TILE ST031 COLOR: CHARCOAL SIZE: 24" X 24"
FRP	FIBERGLASS REINFORCED PLASTIC	MANUF: MARITE STYLE: PEBBLE COLOR: TBD
MT	METAL TRANSITION	MANUF: SCHLUTER STYLE: SCHIENE COLOR: BRUSHED ALUMINUM SIZE: REFER TO DETAILS
PLAM-1	PLASTIC LAMINATE	MANUF: WILSONART COLOR: FUSION MAPLE
PVCT	PVC TRANSITIONS	MANUF: JOHNSONITE COLOR: SILVER GREY
RES-1	RESINOUS FLOORING	MANUF: SHERWIN WILLIAMS STYLE: RESUFLO DECO QUARTZ BC23 COLOR: GREY LINEN
RESB	METAL TRANSITION	MANUF: SHERWIN WILLIAMS STYLE: RESUFLO DECO QUARTZ BC23 COLOR: GREY LINEN SIZE: 4"
RB-1	RUBBER BASE	MANUF: JOHNSONITE STYLE: COVED COLOR: CHARCOAL SIZE: 4"
SC	SEALED CONCRETE	MANUF: H&C CLARISHIELD WATER- BASED WET LOOK CONCRETE SEALER
SSF-1	SOLID SURFACE	MANUF: CORIAN COLOR: ANTARCTIC
TC-1	TOILET COMPARTMENTS	MANUF: ULTIMATE PRIVACY FINISH: BLACK CORE PORCELAIN COLOR: FOG 3450C
TRZ-1	TERRAZZO FIELD	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-2	TERRAZZO LIGHT GRAY	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-3	TERRAZZO DARK GRAY	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-4	TERRAZZO RED	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZB	INTEGRAL TERRAZZO BASE	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
VCT-1	VINYL COMPOSITION TILE	MANUF: TARKETT STYLE: VCT II COLOR: TBD
VWC-X	VINYL WALL COVERING	MANUF: MDC STYLE: SLIDE COLOR: CUSTOM GRAPHIC, COORDINATED WITH ARCHITECT, REFER TO PLAN FOR QUANTITY AND LOCATIONS
WD-1	WOOD DOORS	MANUF: GRAHAM DOOR SPECIES: MAPLE FINISH: TBD

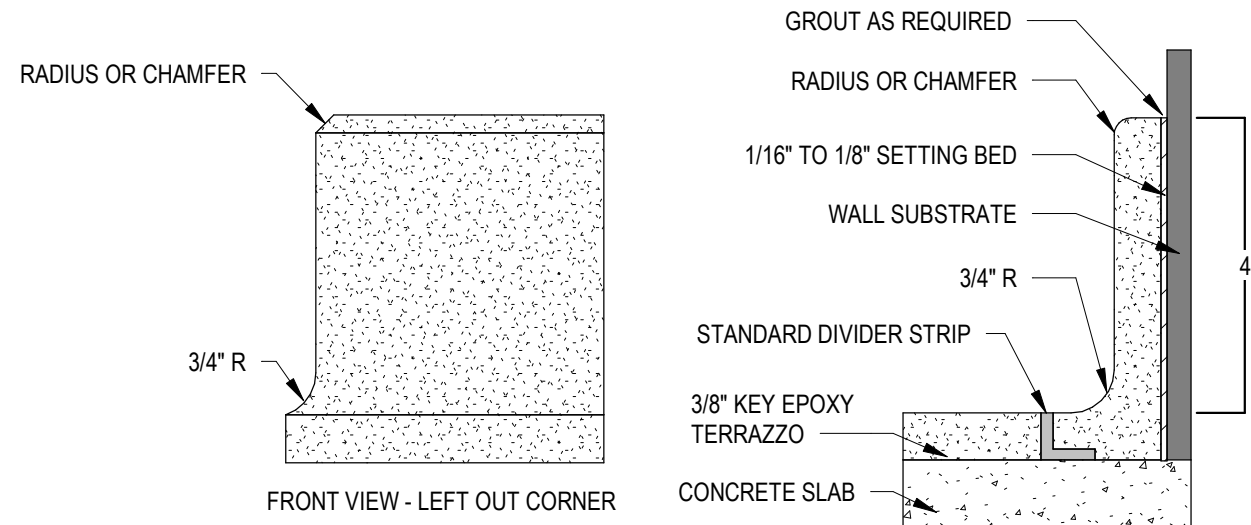
PAINT LEGEND & SCHEDULE		
PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: ALABASTER SHEEN: REFER TO NOTES
PNT-2	ACCENT PAINT GRAY AND ALL HM DOOR FRAMES	MANUF: SHERWIN WILLIAMS COLOR: GRIZZLE GRAY SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT RED	MANUF: SHERWIN WILLIAMS COLOR: HEARTTHROB SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT CEILING PAINT	MANUF: SHERWIN WILLIAMS COLOR: TRICORN BLACK SHEEN: REFER TO NOTES



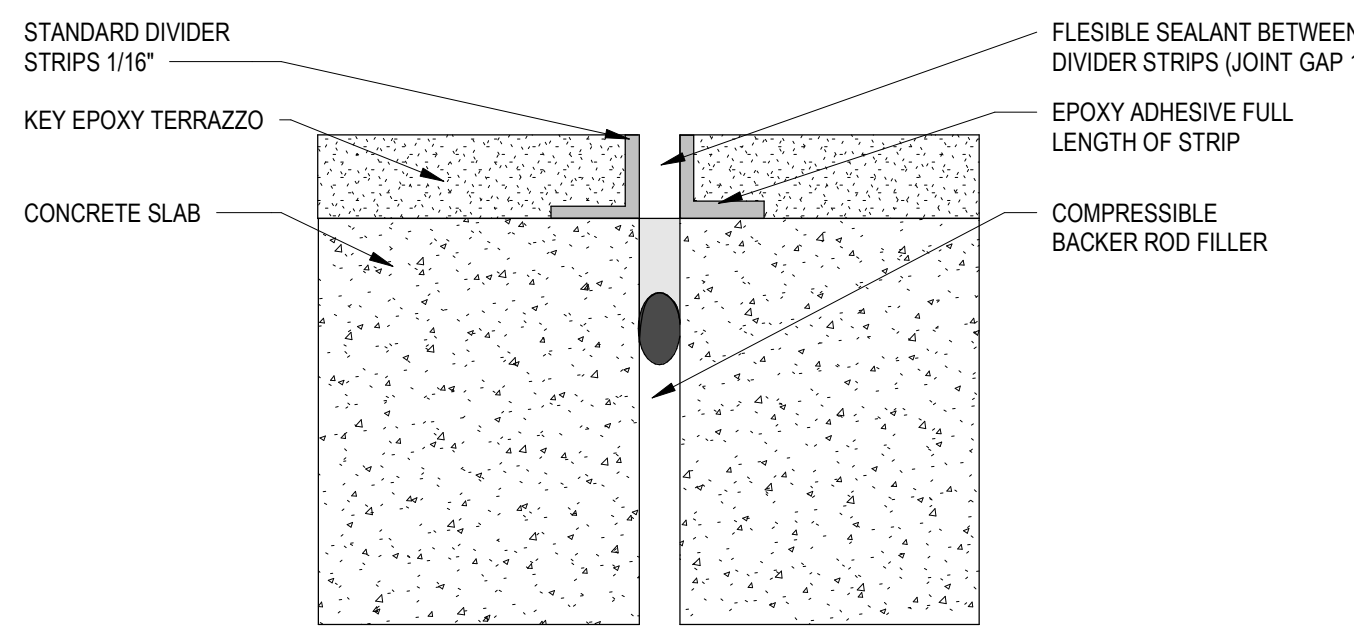
7 EPOXY TERRAZZO TERMINATION
1 1/2" = 1'-0"



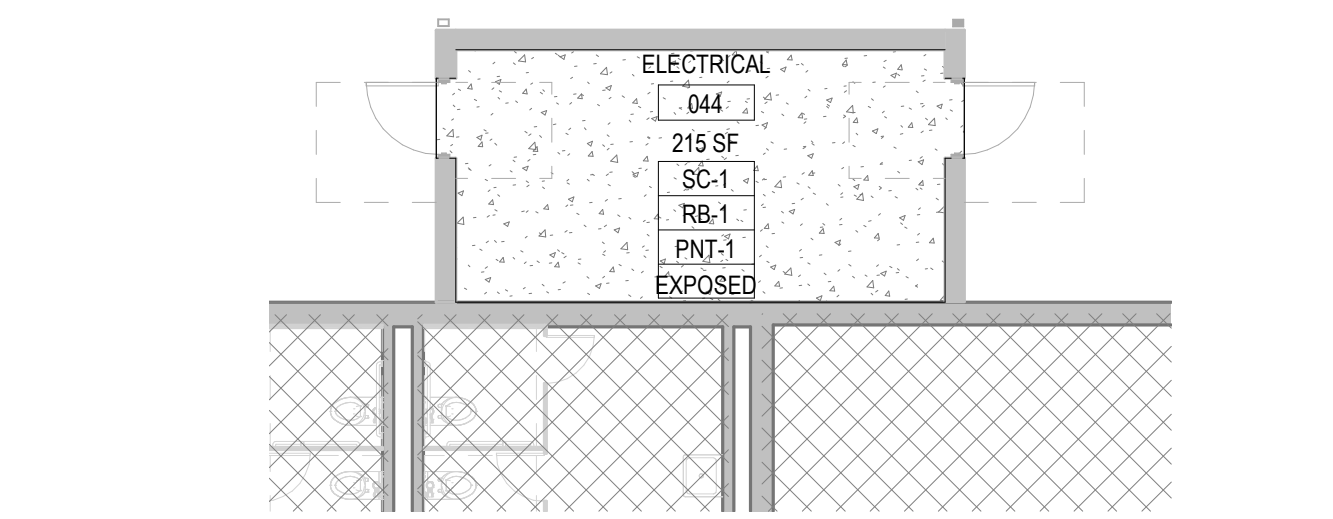
5 DIVIDER STRIP BETWEEN COLORS
1 1/2" = 1'-0"



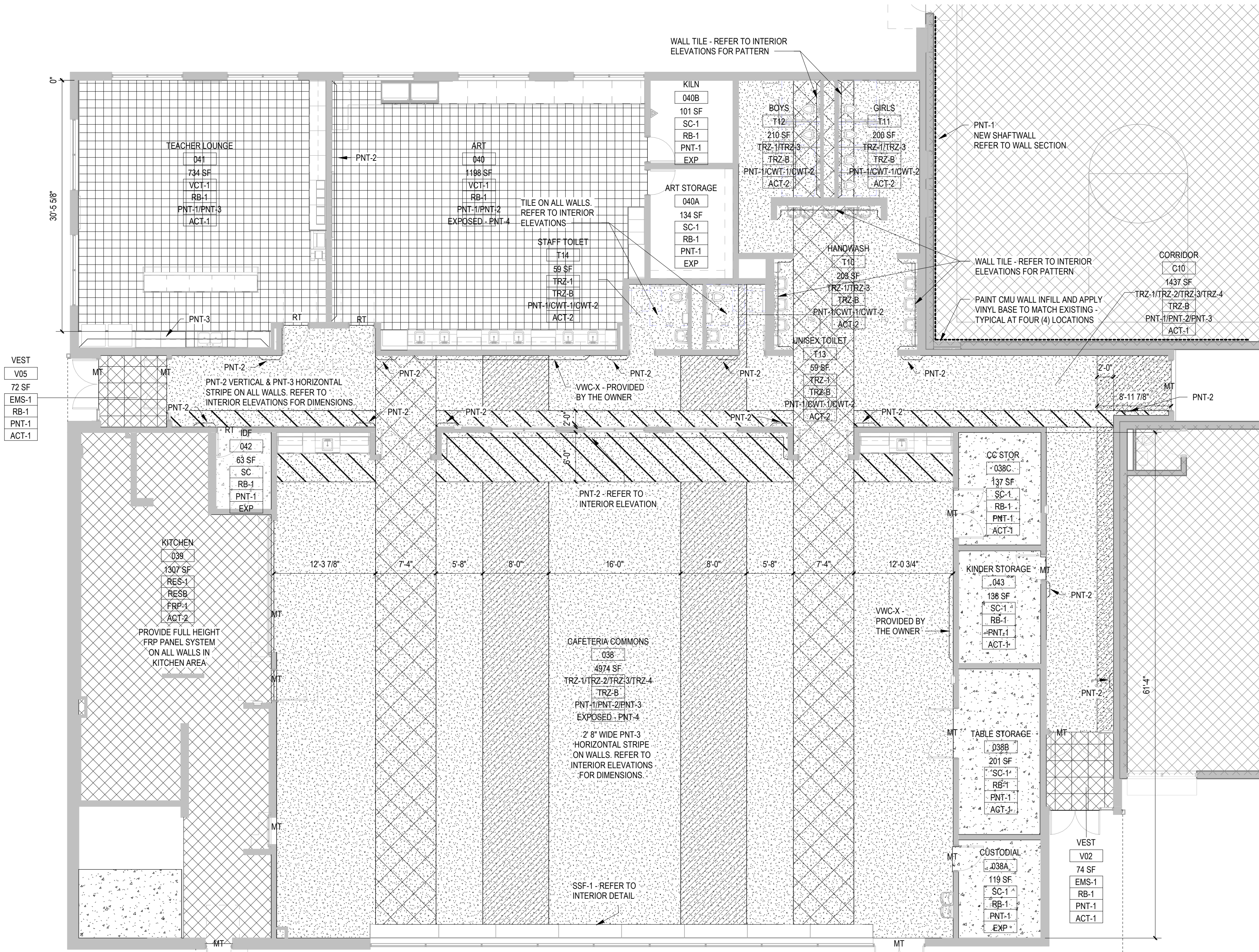
6 EPOXY TERRAZZO COVED BASE
1 1/2" = 1'-0"



4 EXPANSION/ISOLATION JOINT DETAIL
1 1/2" = 1'-0"



3 FIRST FLOOR FINISH PLAN - ELECTRICAL ROOM
1/8" = 1'-0"



1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"

GENERAL FINISH NOTES	
1.	REFER TO THE FINISH PLAN LEGEND FOR MATERIAL AND COLOR INFORMATION. ALSO REFER TO THE PROJECT MANUAL.
2.	REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.
3.	IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.
4.	PROVIDE WINDOW SHADE SYSTEM AT ALL NEW EXTERIOR WINDOWS EXCEPT THOSE IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.
5.	REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.
6.	REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.
7.	NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.
8.	IN ALL RENOVATED AREAS ALL WALLS SHALL BE PAINTED PNT-1 U.N.O. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.
9.	BRICK WALLS SHALL NOT BE PAINTED U.N.O.
10.	REFER TO INTERIOR ELEVATIONS AND/OR FINISH PLANS FOR PORCELAIN TILE WALL PATTERN INFORMATION.
11.	USE VERTICAL METAL EDGE TRANSITIONS IN PORCELAIN TILE WALL OUTSIDE CORNERS AND/OR IN PORCELAIN TILE WALL EXPOSED EDGES.
12.	DO NOT INSTALL RUBBER BASE ON TOP OF PORCELAIN TILE WALL. (U.N.O.)
13.	REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION.
14.	ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-2 IPS-15 U.N.O. IN FINISH DRAWINGS.
15.	ALL ACCESS DOORS TO BE PAINTED, COLOR TO MATCH ADJACENT SURFACE.
16.	ELECTRICAL PANELS, MECHANICAL GRILLES, LOUVERS, AND ANY OTHER MISCELLANEOUS UNFINISHED ITEMS INSTALLED ON WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.
17.	METAL ACCESS LADDERS TO BE PAINTED PNT-2 U.N.O.
18.	REFER TO FINISH PLANS FOR PLASTIC LAMINATE (PLAM) AND SOLID SURFACE (SSF) COLOR DESIGNATIONS.
19.	4" THO CURED RUBBER BASE TO BE USED FOR ALL FLOORING LOCATIONS (U.N.O.)
20.	INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.)
21.	ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.)
22.	CARPET TILE (CPTT) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.
23.	REFER TO SPECIFICATIONS FOR RESILIENT TRANSITIONS (RT) PROFILES.
24.	ALL REDUCERS TO BE COORDINATED APPROPRIATELY WITH ABUTTING MATERIAL HEIGHTS.
25.	AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.
26.	REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.
27.	PROVIDE VAPOR BARRIER SEALER ON CONCRETE SURFACES AT ALL AREAS TO RECEIVE CARPET AND/OR RESILIENT FLOORING.
28.	IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.
29.	WHERE "PATCH AND REPAIR" IS REQUIRED DUE TO NEW CONSTRUCTION IN EXISTING AREAS WHERE NO WORK IS SCHEDULED TO BE PERFORMED "PATCH AND REPAIR" FINISHES TO MATCH ADJACENT EXISTING FINISH COLOR, TEXTURE AND SHEEN.
30.	ANY DAMAGE TO EXISTING SURFACES DUE TO SCHEDULED DEMOLITION AND/OR TO ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN THIS PACKAGE SHALL BE REPAIRED, THOUGH NOT EXPRESSLY NOTED "PATCH AND REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED.
31.	"PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXES AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.

GENERAL FLOOR FINISH NOTES	
1.	AT ALL AREAS OF NEW FLOORING:
A.	PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS.
B.	PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS.
C.	GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTRATE PRIOR TO BEGINNING ANY WORK.
D.	PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTRATE IN ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS PRIOR TO BEGINNING ANY WORK.

GENERAL PAINTING NOTES	
1.	ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.
A.	NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).
B.	SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.
C.	SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
2.	ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
A.	REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
B.	AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.
C.	AT REPAIRS AND UNPAINTED CONCRETE BLOCK AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.
D.	PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3.	IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC. SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
4.	AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.
5.	ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGG SHELL FINISH (U.N.O.).
6.	AT STEEL DOORS AND STEEL FRAMES:
A.	INTERIORS TO BE PAINTED PNT-2 WITH SEMI-GLOSS FINISH (U.N.O.).
B.	ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH (U.N.O.).

GENERAL CEILING FINISH NOTES	
1.	REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.
2.	REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.
3.	WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED.
4.	ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (U.N.O.) ON CEILING AND/OR FINISH PLANS.
5.	GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1.
6.	IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS, STEEL, DECKING AND EXPOSED STRUCTURE AND DUCTWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS.

NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA/PEP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____

DATE _____

REVISIONS

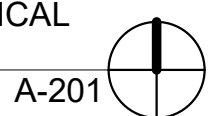
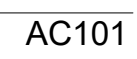
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY KW
CHECKED BY ZW

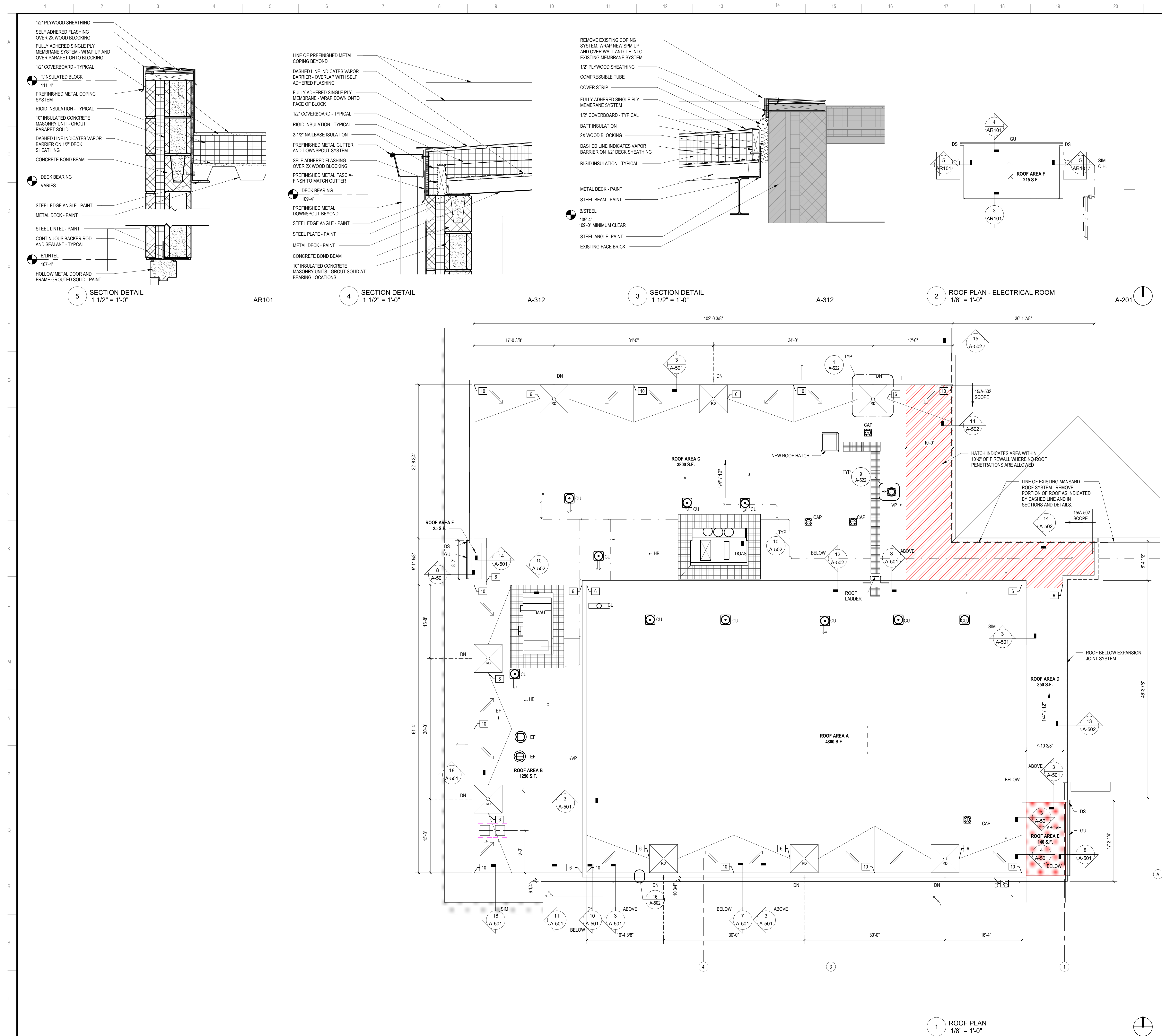
FIRST FLOOR FINISH
PLAN

AF101
BID DOCUMENTS

BAFFLE - ARMSTRONG METALWORKS - 6"x72"x1"



AC101
BID DOCUMENTS



ROOF PLAN LEGEND

- AREA OF SLOPED STRUCTURE
- AREA OF 1/4" PER FOOT TAPERED INSULATION
- AREA OF 1/2" PER FOOT TAPERED INSULATION
- ROOF DRAIN
- TOTAL HEIGHT OF INSULATION IN INCHES NOT INCLUDING COVER BOARD
- METAL COPING AND JOINT - REFER TO DETAILS 5/A-521 (HORIZONTAL) AND 5/A-521 (VERTICAL)
- VENT PIPE ROOF PENETRATION
- DOWNSPOUT NOZZLE
- DOWNSPOUT
- PREFINISHED GUTTER SYSTEM
- EXPANSION JOINT ASSEMBLY
- CAP
- CU
- CONDENSING UNIT
- DOAS
- DEDICATED OUTDOOR AIR UNIT
- EF
- EXHAUST FAN
- MAU
- MAKEUP AIR UNIT
- SPRAY FIRE PROOFING - 1 HOUR
- WALKWAY PAD

GENERAL ROOF NOTES

- ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
- ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS.
- ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOF MEMBRANE SURFACE.
- FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS W/ ALL DRAIN LOCATIONS.
- ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
- ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
- APPLY MEMBRANE MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
- DRAINS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.
- PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.
- WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
- SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL DECK ONLY.
- ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
- ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.

ROOF PLAN FLASHING NOTES

- ALL FLASHING FLANGES ARE TO BE SET IN SEALANT.
- ISOMETRIC DRAWINGS ARE DIAGRAMMATIC.
- FOLLOWING INSTALLATION OF THE FLASHING, APPLY SEALANT TO ALL EXPOSED LEADING EDGES.
- ALL SCREW ANCHOR LOCATIONS TO HAVE PRE-DRILLED 5/16" PILOT HOLES.
- NON-EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 (PAINT) SCREW.
- EXPOSED SCREW ANCHORS INTO WOOD TO BE NO. 14 X 1-1/2 LONG 18-8 AUSTENITIC STAINLESS STEEL TYPE 304 PAINT SCREW.
- NON-EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS.
- EXPOSED SCREW ANCHORS INTO MASONRY ARE TO BE 1-1/4" X 3/16" STAINLESS STEEL SELF TAPPING SCREW FASTENERS WITH CUMASEAL CORROSION RESISTIVE COATING AND NEOPRENE WASHERS.
- EXPOSED SCREW FASTENERS INTO SHEET METAL TO BE 3/4" X 1/4" TKS 1 WITH NEOPRENE WASHERS.
- FIELD VERIFY ALL CONDITIONS PRIOR TO FABRICATION.
- ALL EXPOSED SCREW FASTENERS ARE TO BE COVERED WITH SEALANT UNLESS NOTED OTHERWISE.

ROOF CONSTRUCTION NOTES

ROOF AREA: A, B, C, D, & F (14,200 SF)
STRUCTURALLY SLOPED METAL DECK

- INSTALL DECK SHEATHING.
- INSTALL TEMPORARY ROOF / VAPOR BARRIER. WRAP OVER PARAPET.
- INSTALL TWO LAYERS OF 3" RIGID POLYISOCYANURATE INSULATION (R34 AVERAGE MINIMUM). STAGGER JOINTS. SET IN INSULATION ADHESIVE.
- INSTALL TAPERED RIGID INSULATION AND SADDLES. SET IN INSULATION ADHESIVE.
- INSTALL COVER BOARD. SET IN INSULATION ADHESIVE.
- INSTALL FULLY ADHERED SINGLE-PLY MEMBRANE ROOFING.
- INSTALL WALKWAY PADS.
- INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.

ROOF AREA: E & F (725 SF)
STRUCTURALLY SLOPE METAL DECK - NO INSULATION

- INSTALL DECK SHEATHING.
- INSTALL FULLY ADHERED SINGLE-PLY MEMBRANE ROOFING SYSTEM.
- INSTALL PREFINISHED METAL COPINGS, ENDWALL FLASHINGS, COUNTERFLASHINGS, GUTTERS AND DOWNSPOUTS, AND EXPANSION JOINT COVERS.

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

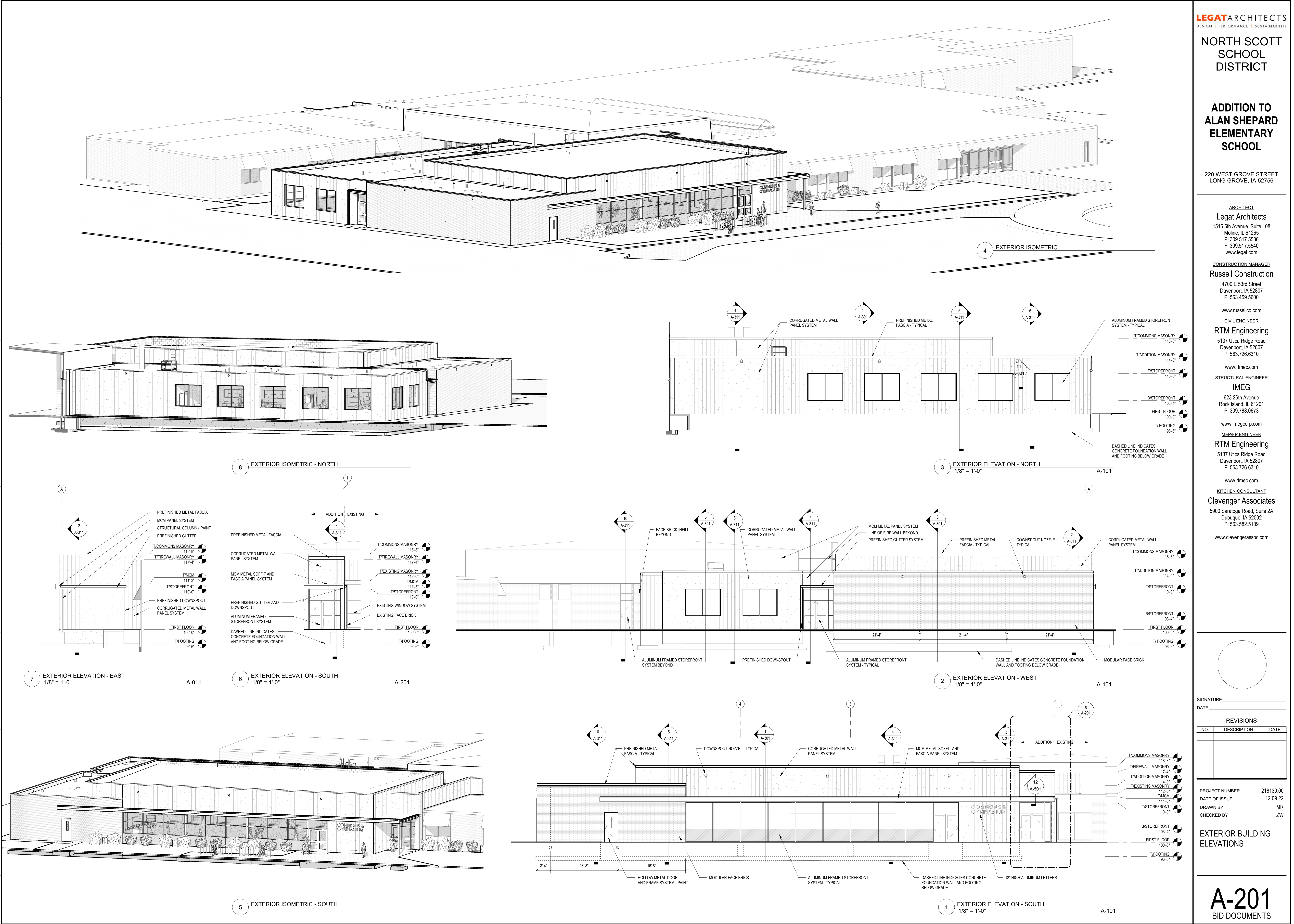
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

ROOF PLAN



**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

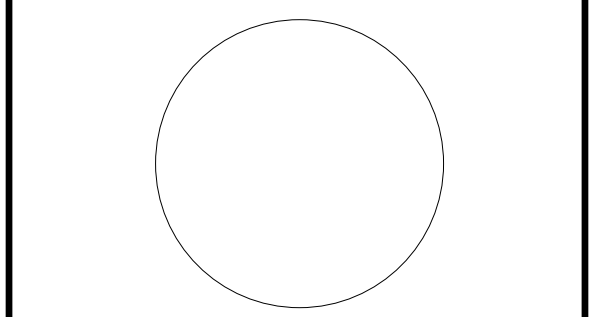
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

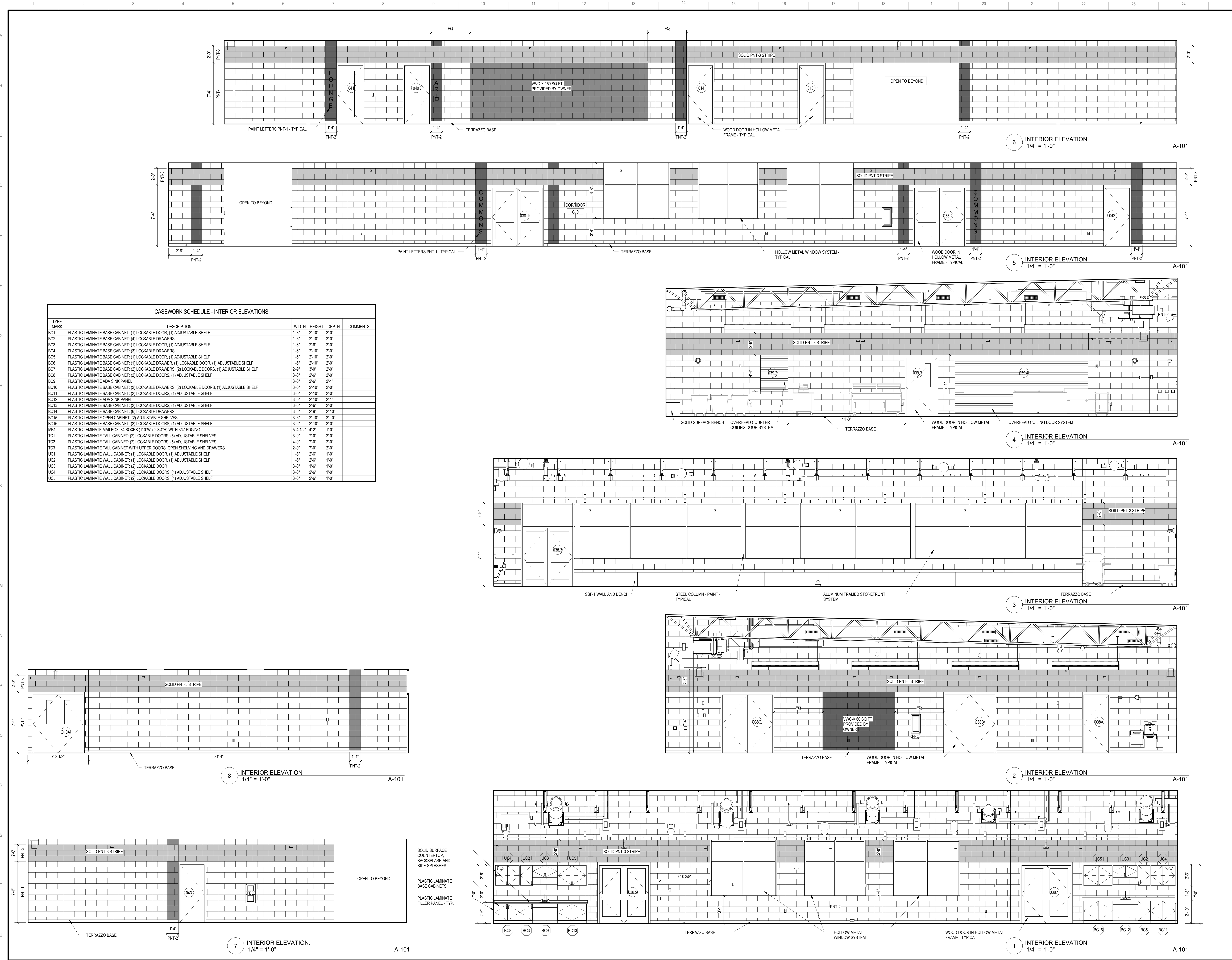


SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

**EXTERIOR BUILDING
ELEVATIONS**



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

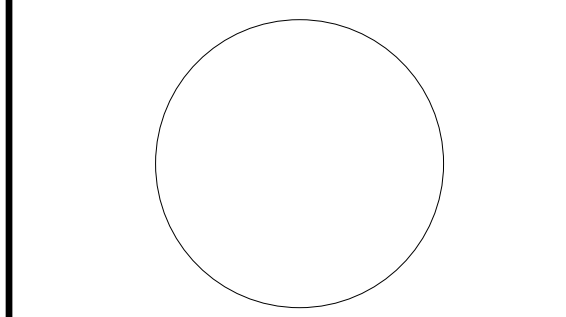
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulta Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA/FP ENGINEER
RTM Engineering
5137 Ulta Ridge Road
Davenport, IA 52807
P: 563.726.6310

RTM Engineering
5137 Ulta Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

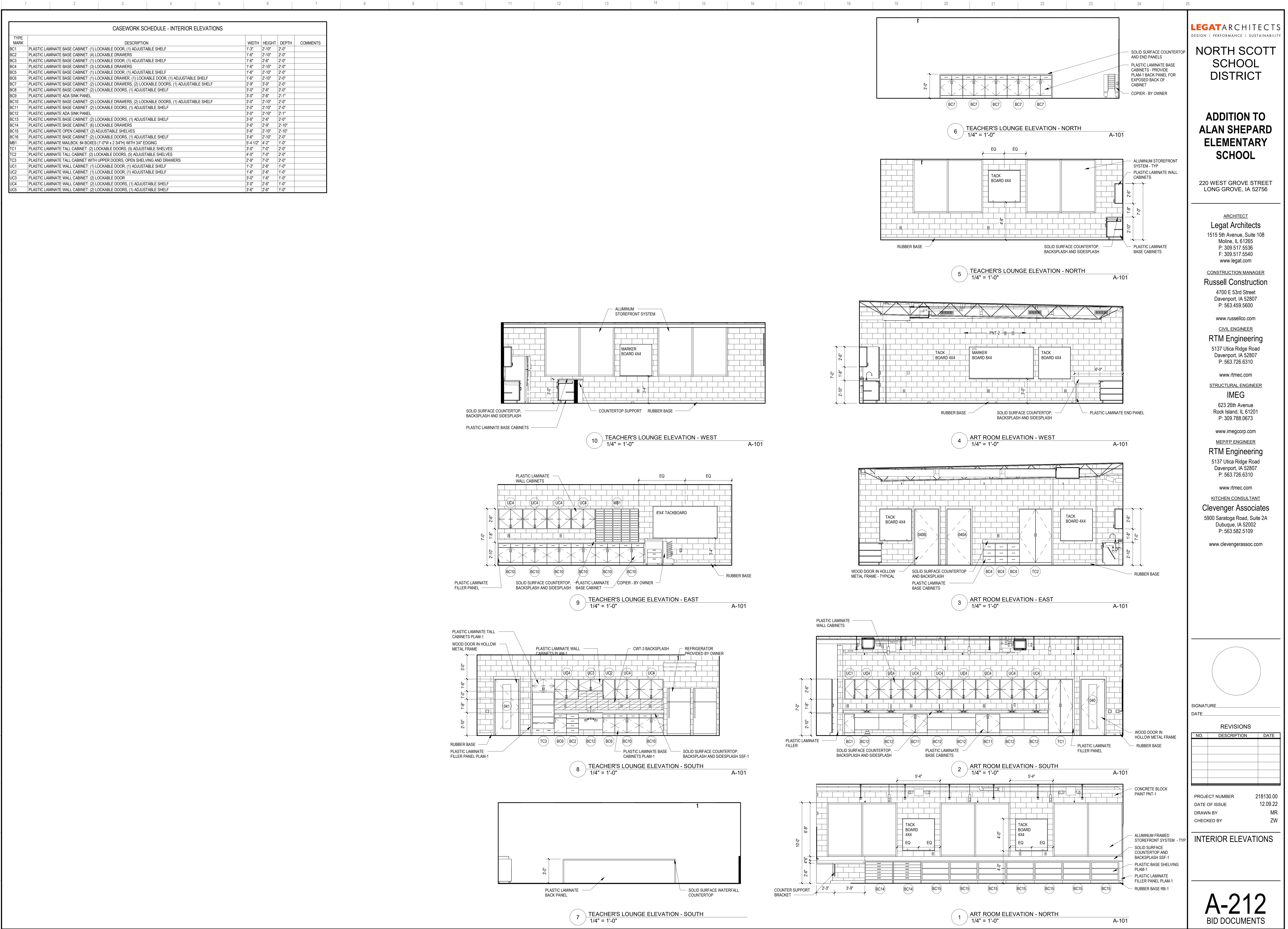


SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

INTERIOR ELEVATIONS



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

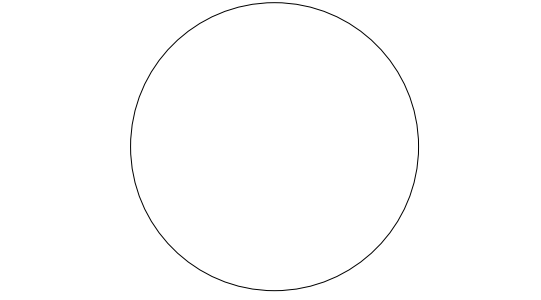
CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

INTERIOR ELEVATIONS

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

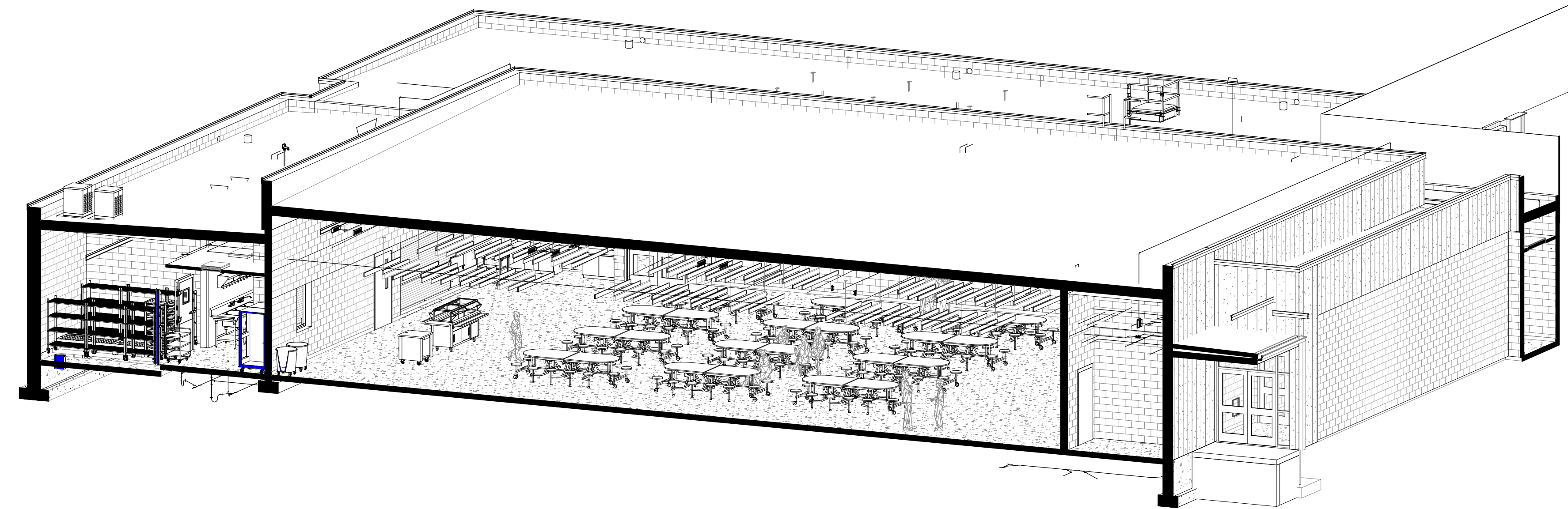
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

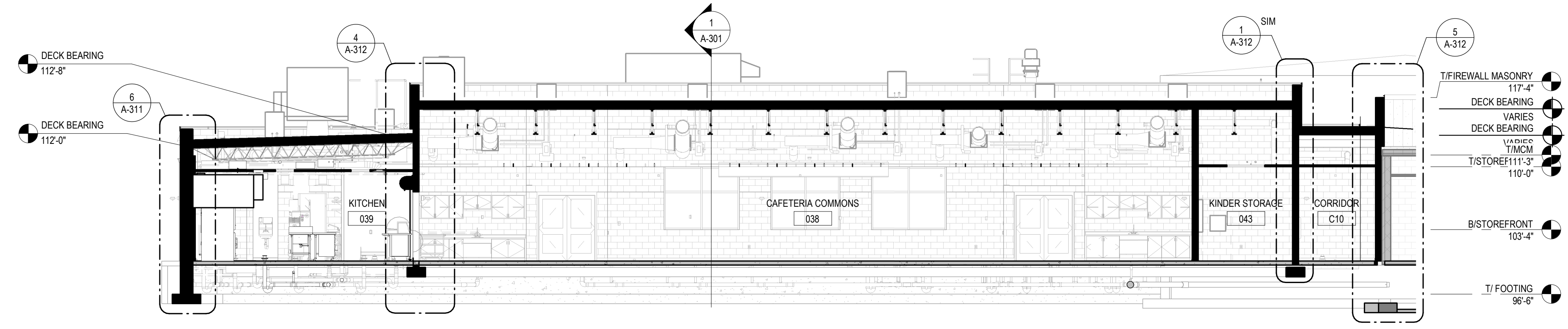
STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

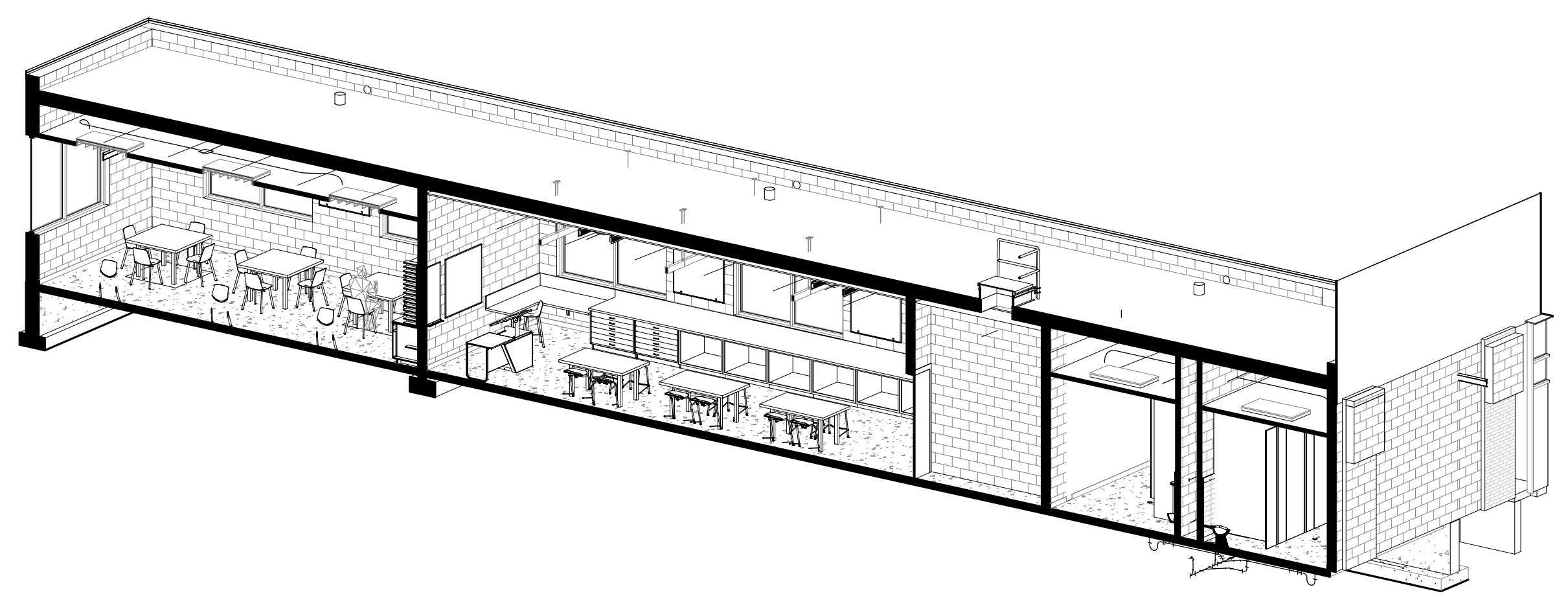


4 SECTION ISOMETRIC

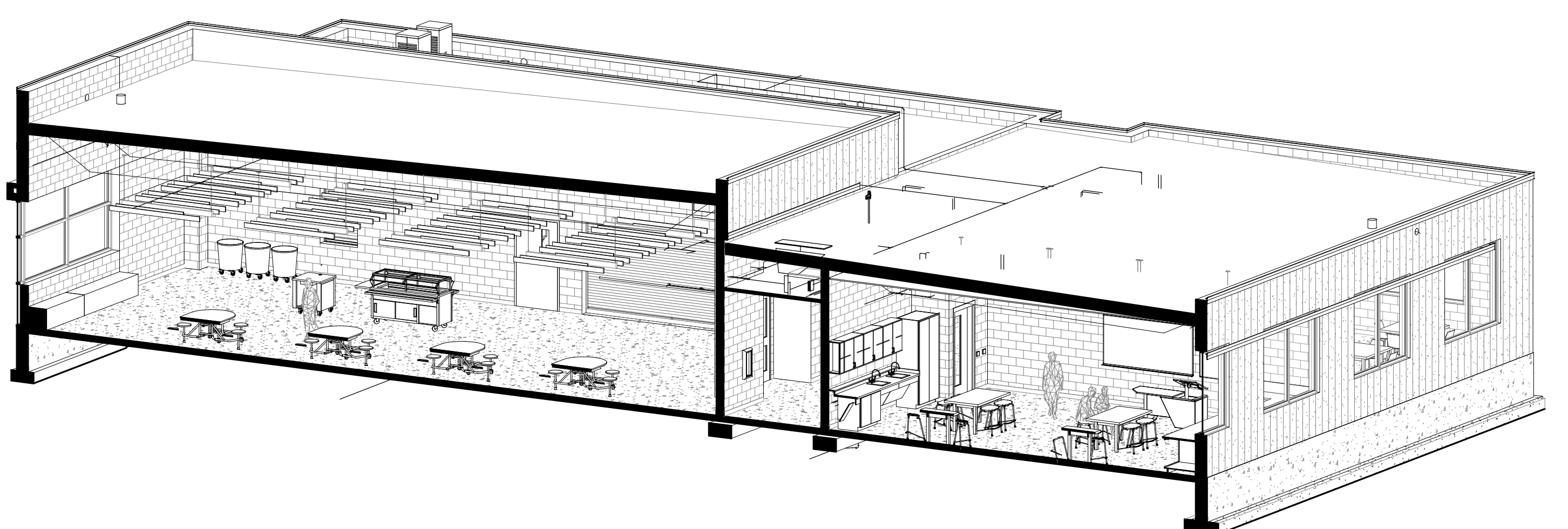


3 BUILDING SECTION
1/8" = 1'-0"

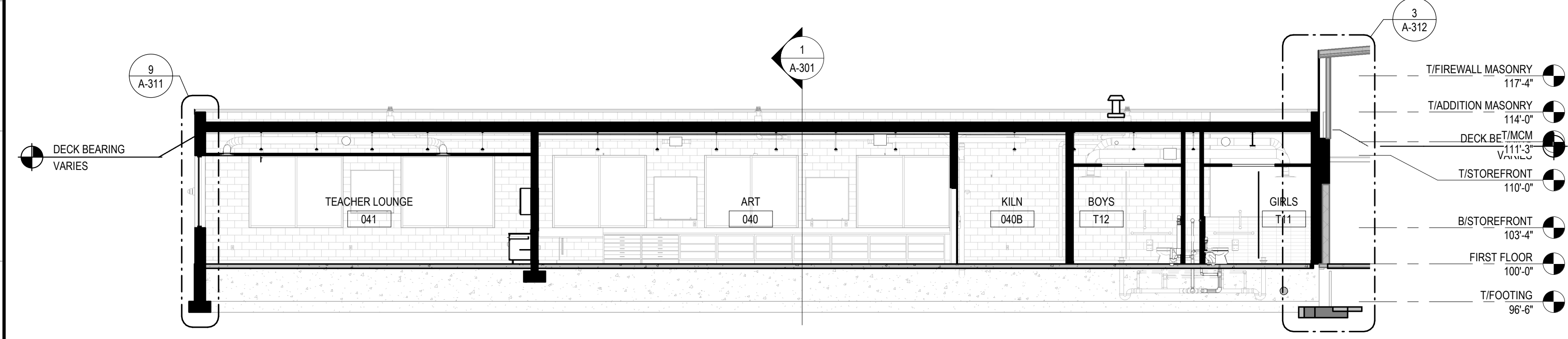
A-101



6 SECTION ISOMETRIC

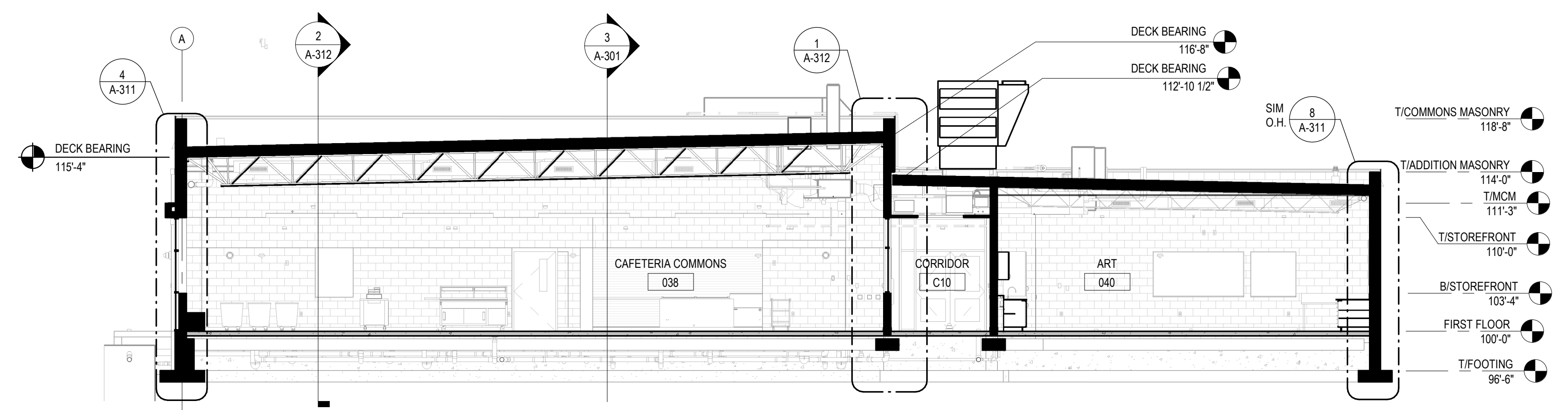


2 SECTION ISOMETRIC



5 BUILDING SECTION
1/8" = 1'-0"

A-101



1 BUILDING SECTION
1/8" = 1'-0"

A-101

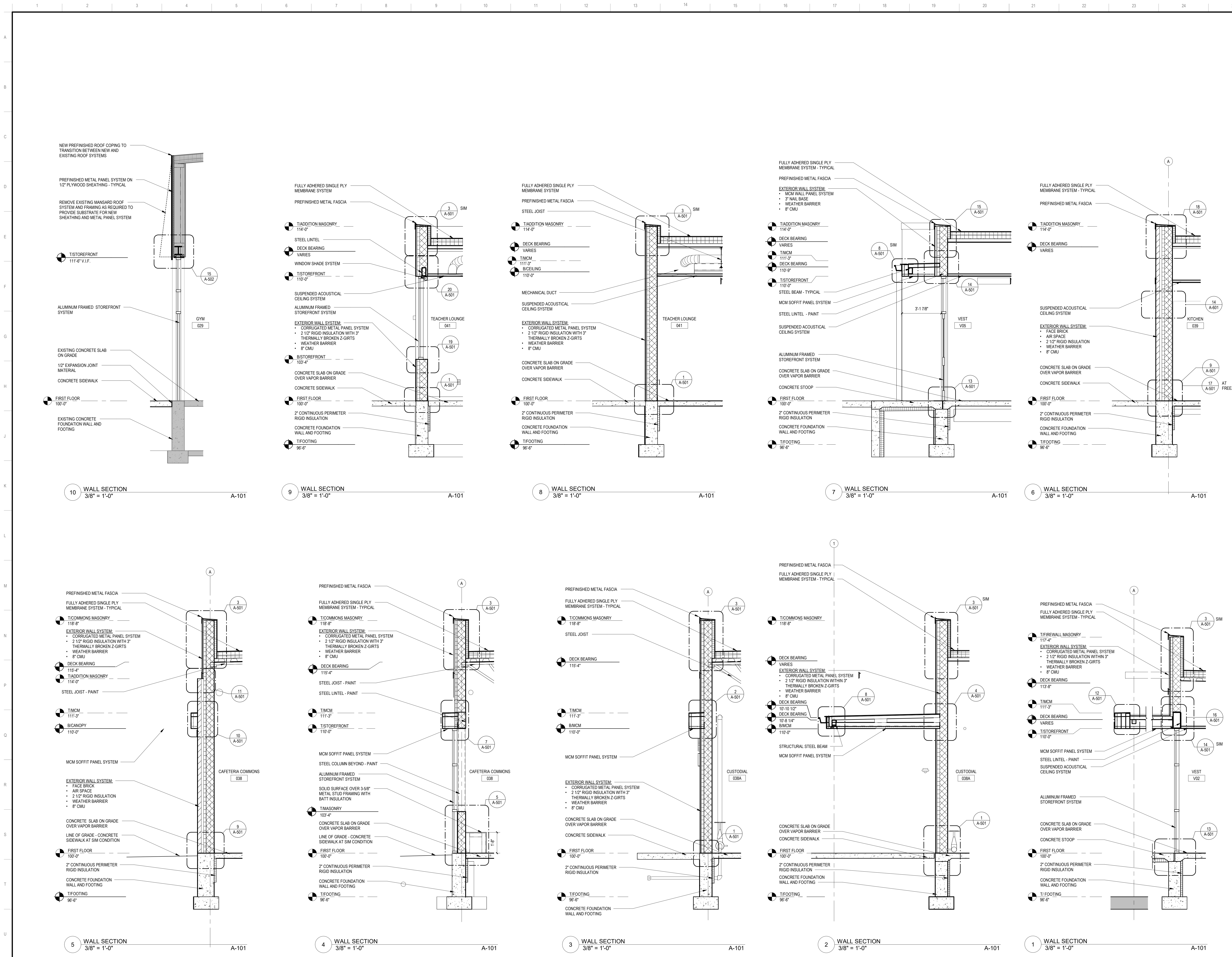
SIGNATURE
DATE

REVISIONS
NO. DESCRIPTION DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

BUILDING SECTIONS

A-301
BID DOCUMENTS



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com
STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.rtmec.com
MEP/FP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

www.rtmec.com
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

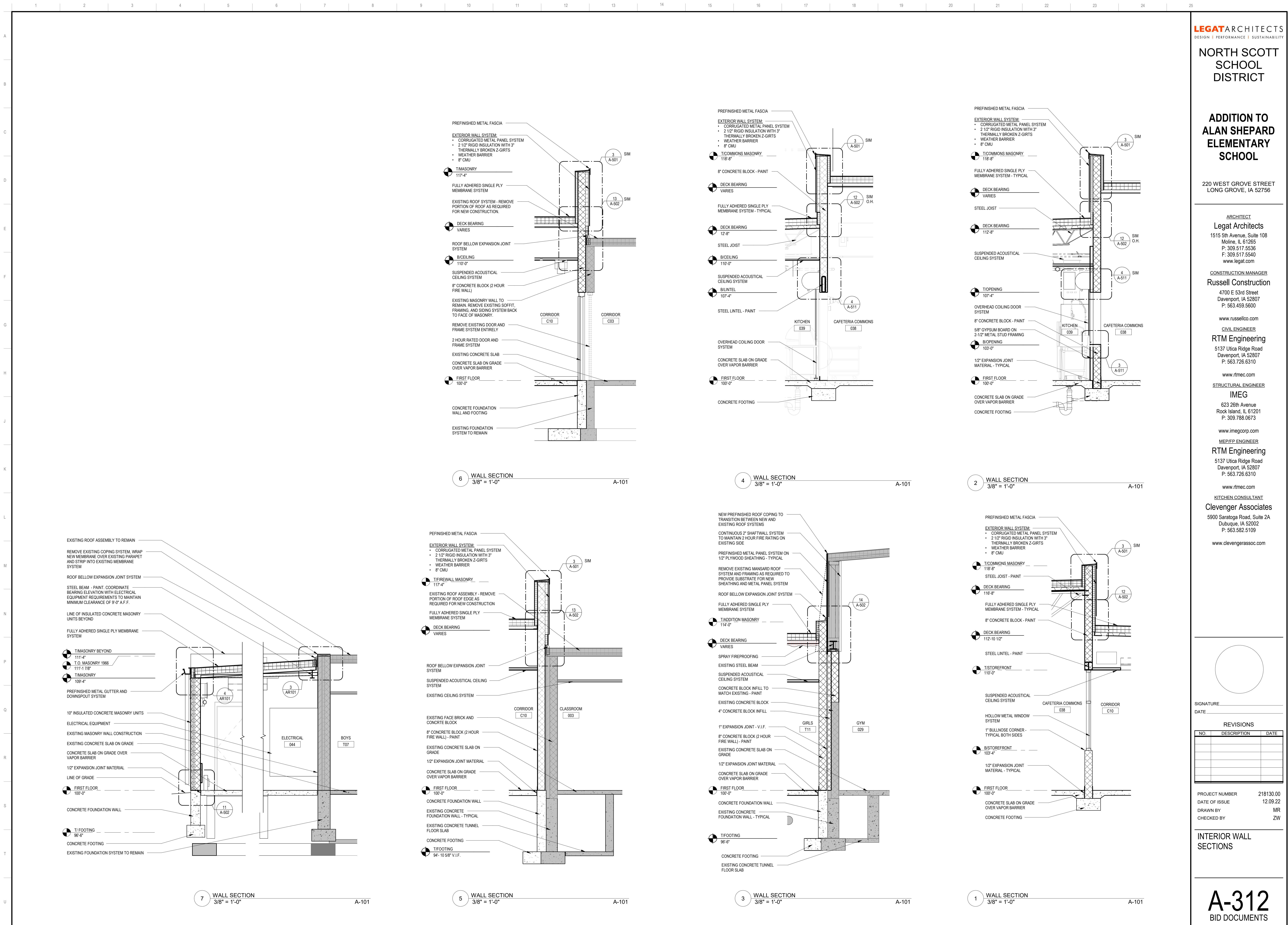
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

EXTERIOR WALL
SECTIONS

A-311
BID DOCUMENTS



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

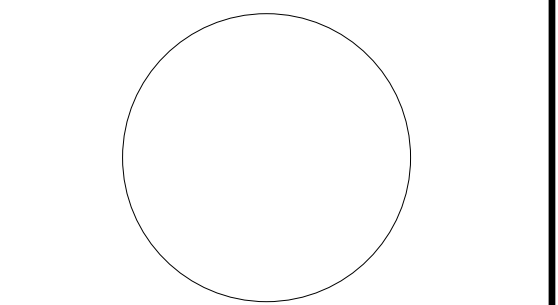
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

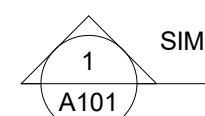
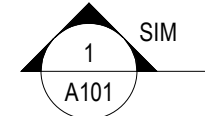
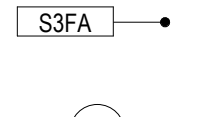
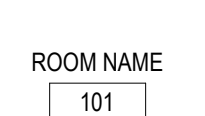
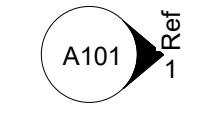
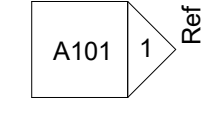

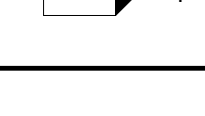

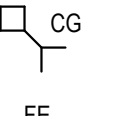

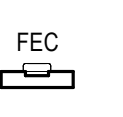
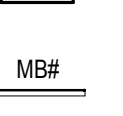
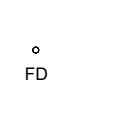


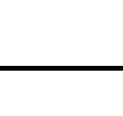



INTERIOR WALL
SECTIONS

A-312
BID DOCUMENTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

A
B
C
D
E
F
G
H
J
K
L
M
N
P
Q
R
S
T
U

PLUMBING FIXTURES ABBREVIATIONS	
CHT	CHANGING TABLE
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
GB1	GRAB BAR - 36"
GB2	GRAB BAR - 42"
GB3	GRAB BAR - 18"
L1	LAVATORY
MR1	MIRROR
PT	PAPER TOWEL DISPENSER - OWNER PROVIDED
SD	SOAP DISPENSER - OWNER PROVIDED
SN	SANTARY NAPKIN DISPOSAL
TP	TOILET PAPER DISPENSER - OWNER PROVIDED
U-1	ADA URINAL
WC-1	ADA WATER CLOSET
WC-2	STANDARD WATER CLOSET

FLOOR PLAN LEGEND	
 1 A101	SIM DETAIL SECTION TAG
 1 A101	BUILDING & WALL SECTION TAG
 S3FA	WALL TYPE - REFER TO A-611 FOR WALL TYPES
 101	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE
 ROOM NAME 101	ROOM NAME AND NUMBER
 A101	INTERIOR ELEVATION TAG
 A101	EXTERIOR ELEVATION TAG
 0	COLUMN TAG AND COLUMN CENTERLINE
 A101	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION
 CG	CORNER GUARD - REFER TO DETAIL
 FE	FIRE EXTINGUISHER - WALL MOUNTED
 FEC	RECESSED FIRE EXTINGUISHER AND CABINET
 FEC-R	FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET
 FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
 FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CABINET AND BLANKET
 MB#	MARKER BOARD
 TB#	TACK BOARD
 FD	FLOOR DRAIN
	DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS FOR MORE INFORMATION
 N#	NEW WORK NOTE

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

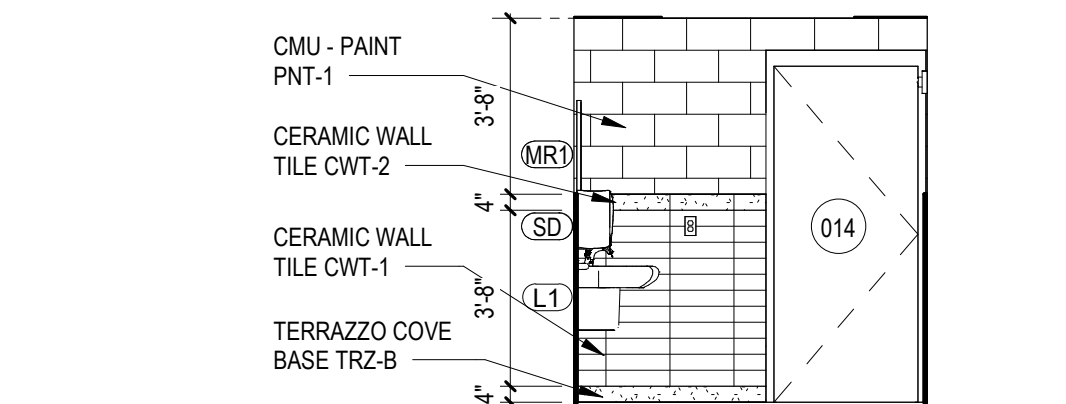
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

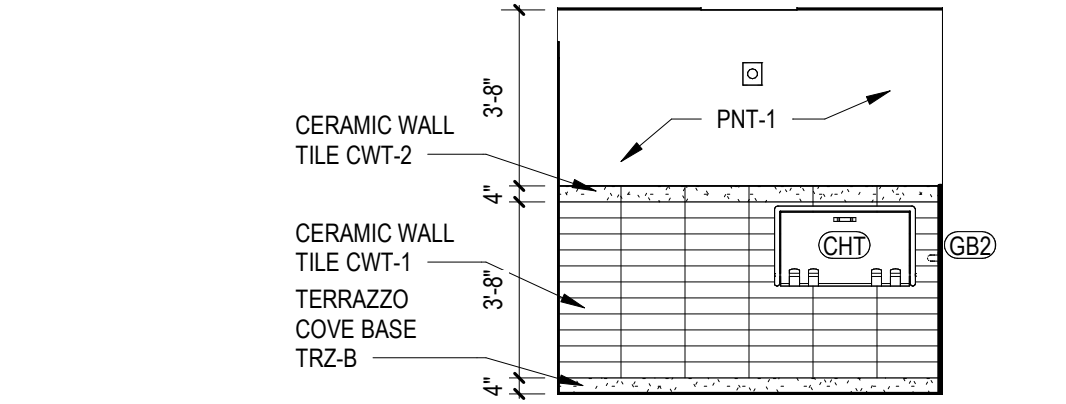
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

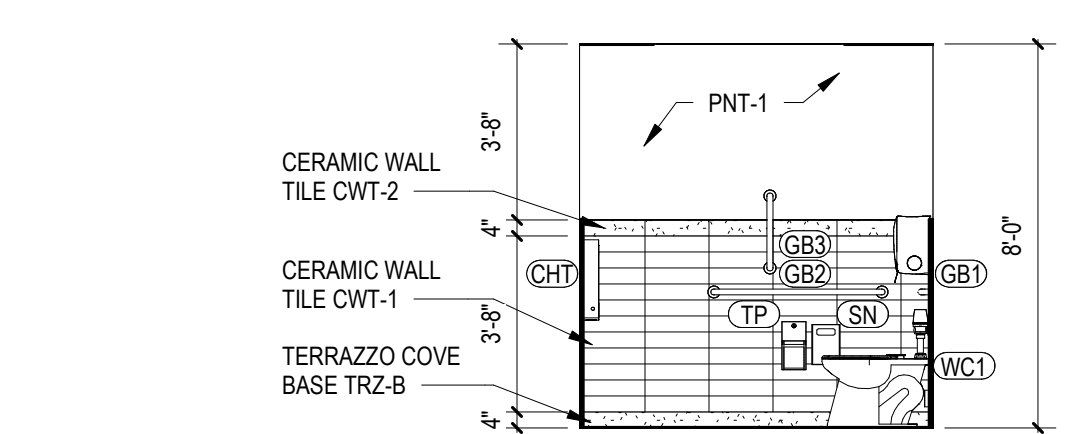
www.clevengerassoc.com



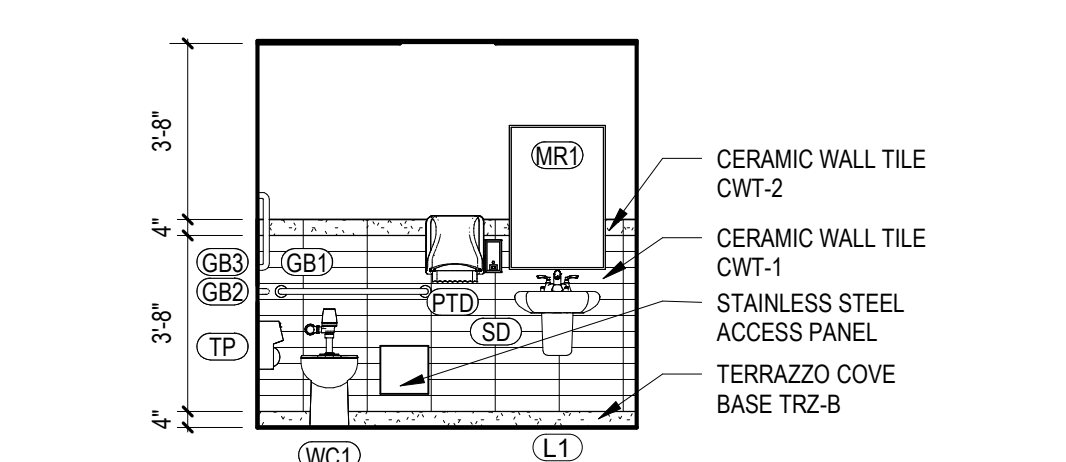
10 INTERIOR ELEVATION
1/4" = 1'-0" A-401



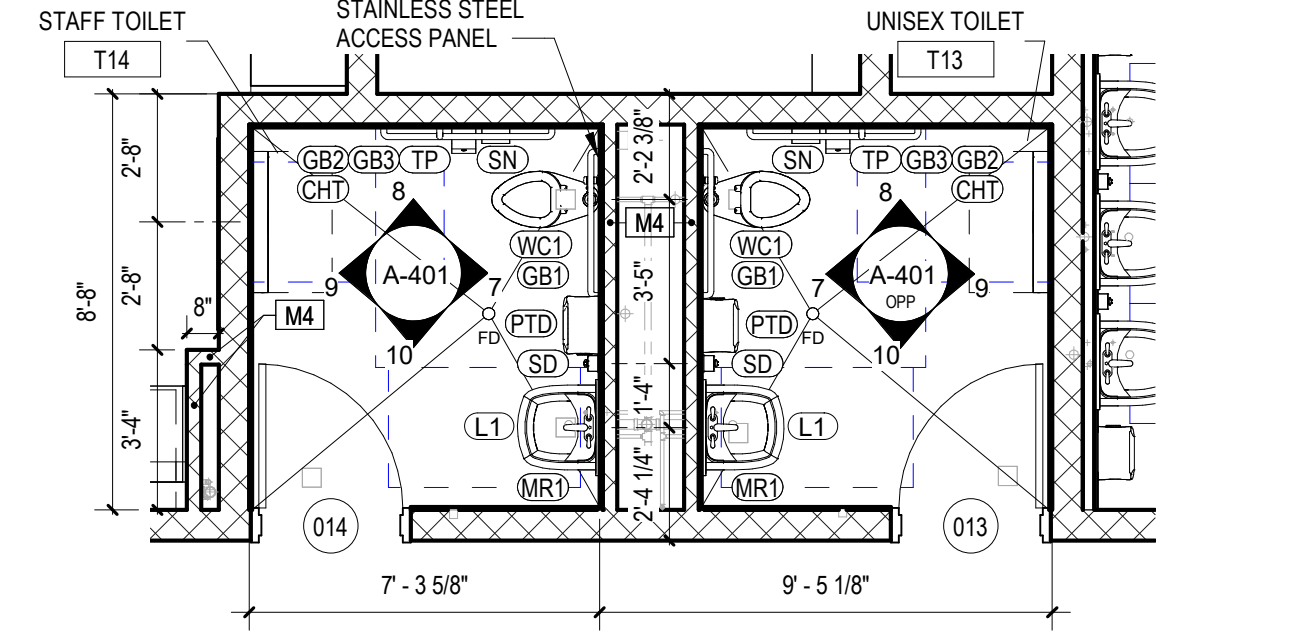
9 INTERIOR ELEVATION
1/4" = 1'-0" A-401



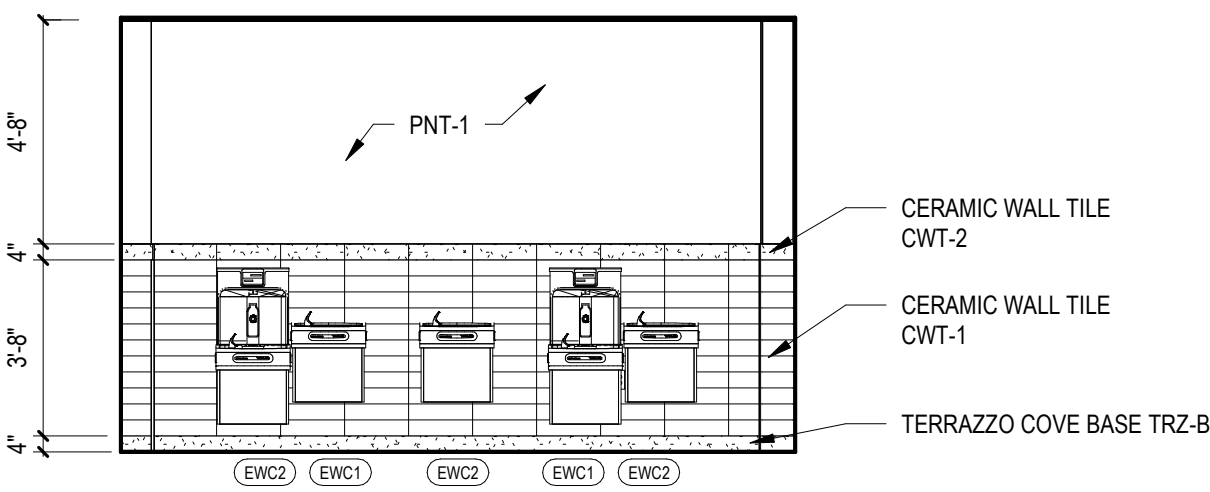
8 INTERIOR ELEVATION
1/4" = 1'-0" A-401



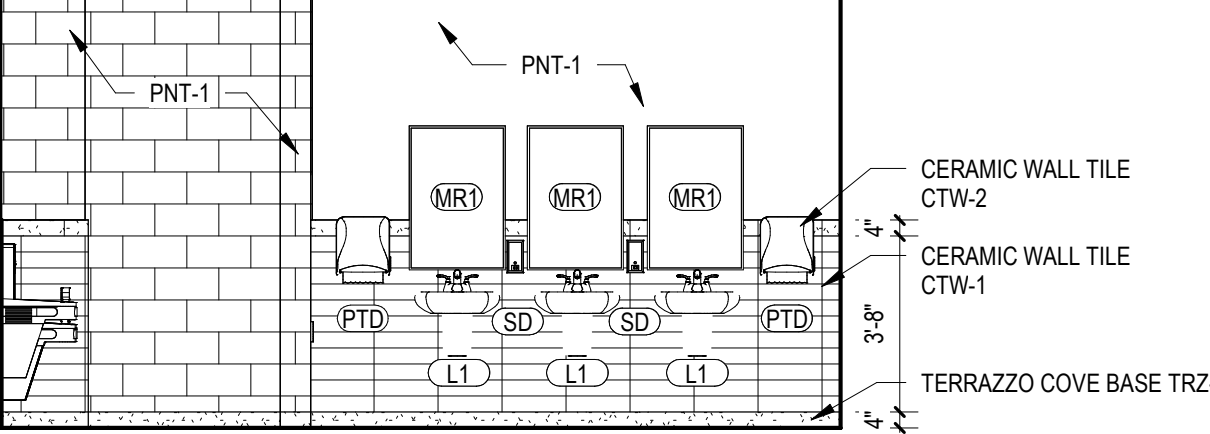
7 INTERIOR ELEVATION
1/4" = 1'-0" A-401



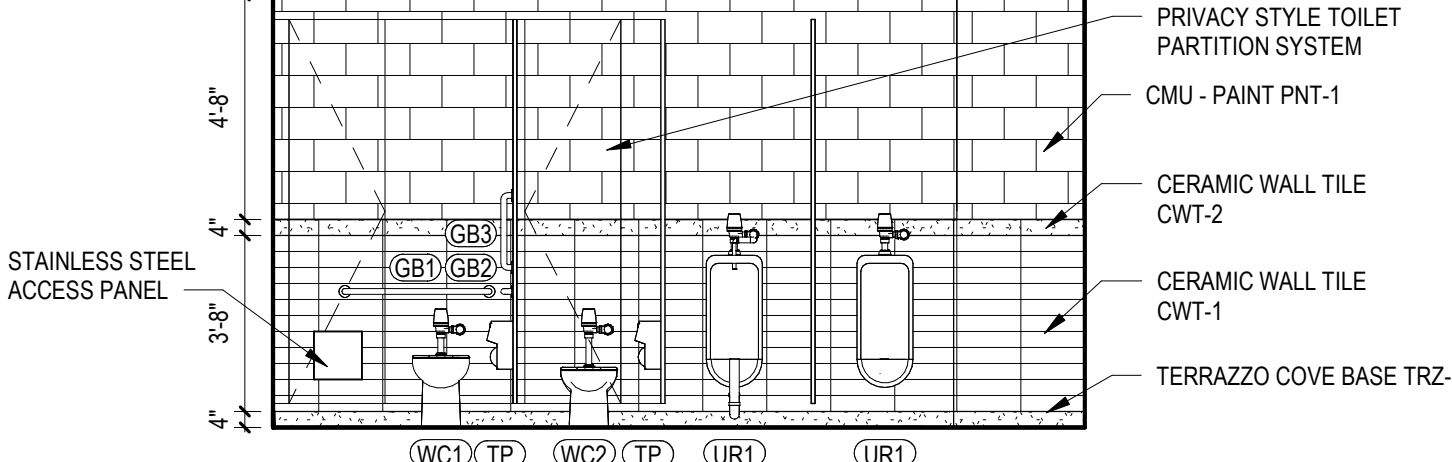
6 ENLARGED TOILET ROOM
1/4" = 1'-0" A-101



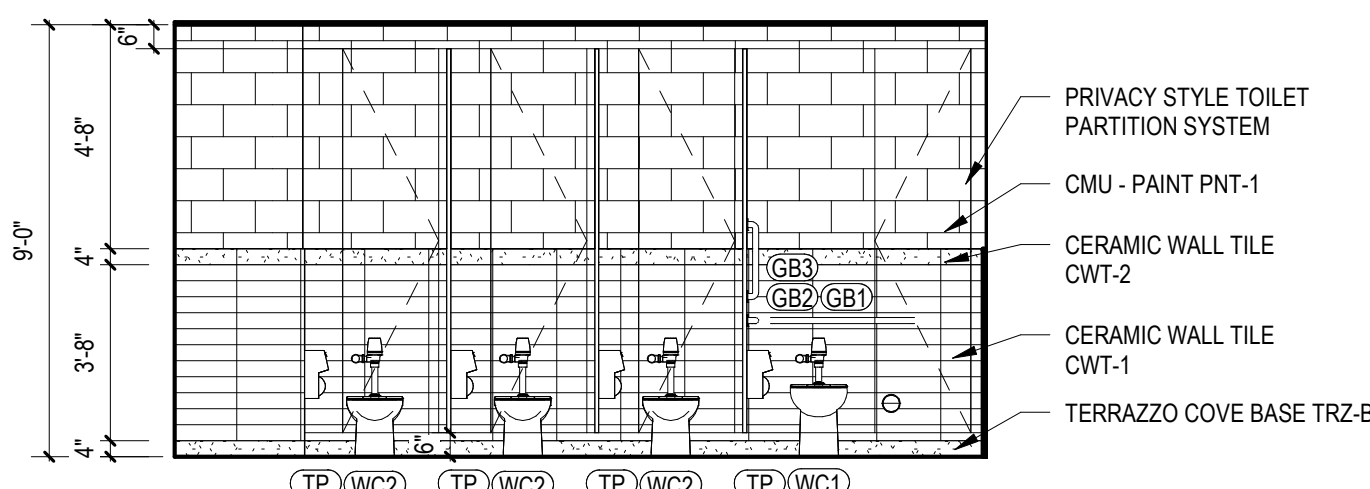
5 INTERIOR ELEVATION - HANDWASH
1/4" = 1'-0" A-401



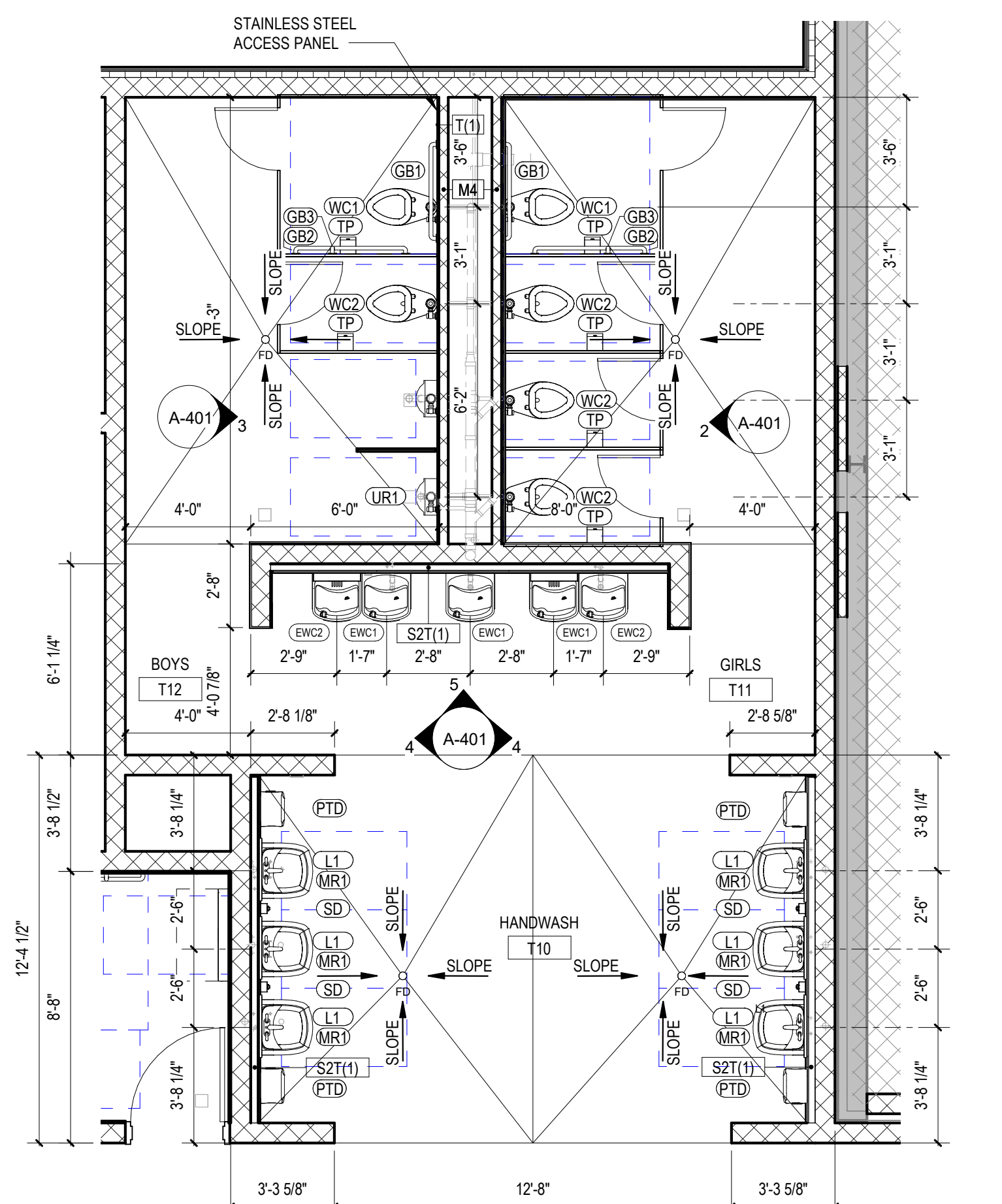
4 INTERIOR ELEVATION - HANDWASH
1/4" = 1'-0" A-401



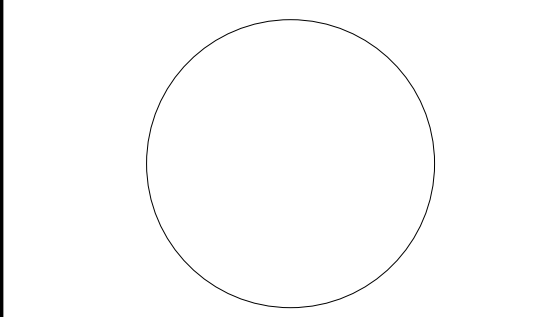
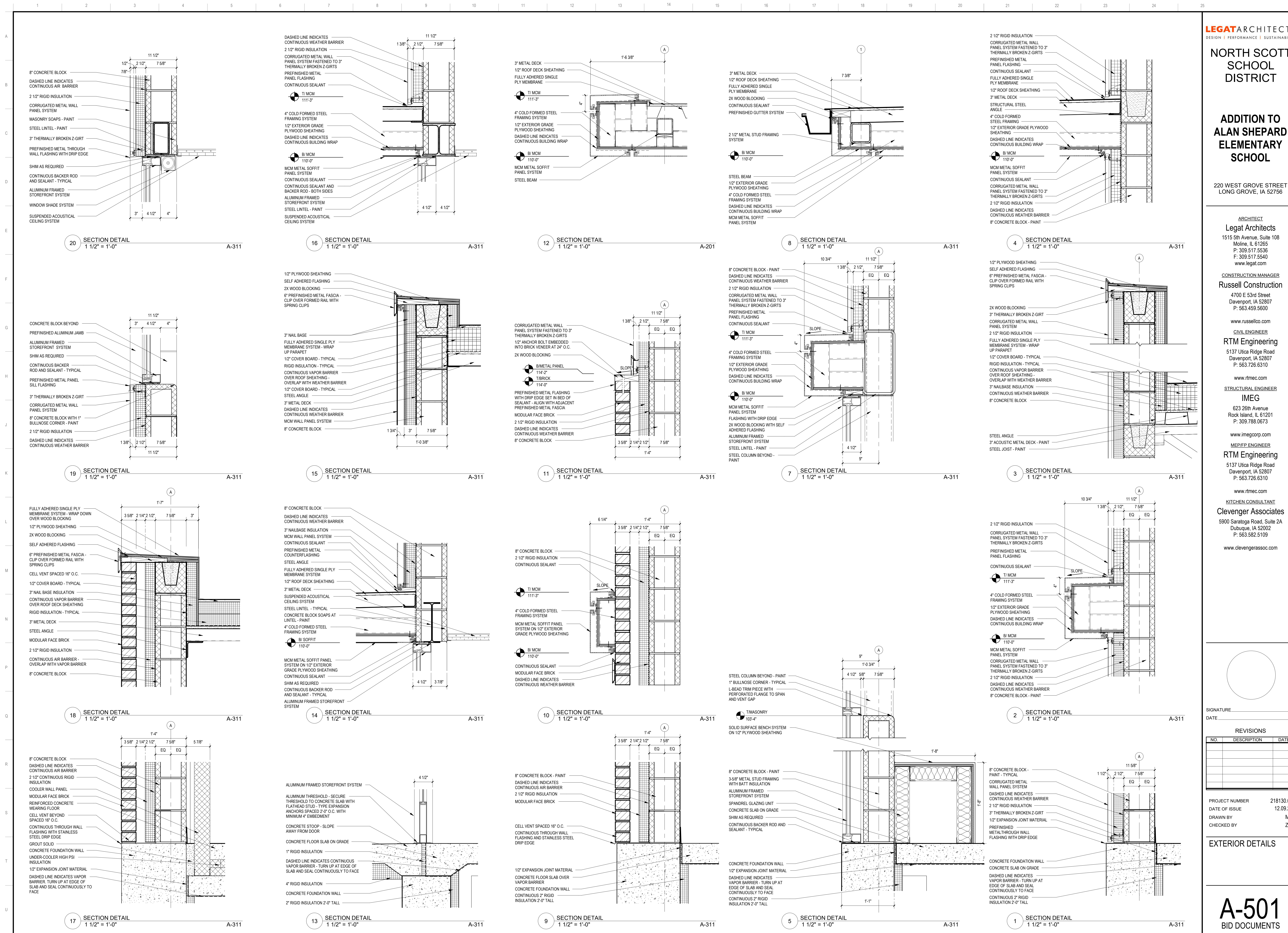
3 INTERIOR ELEVATION - TOILET ROOM
1/4" = 1'-0" A-401



2 INTERIOR ELEVATION - TOILET ROOM
1/4" = 1'-0" A-401



1 ENLARGED TOILET ROOM
1/4" = 1'-0" A-101

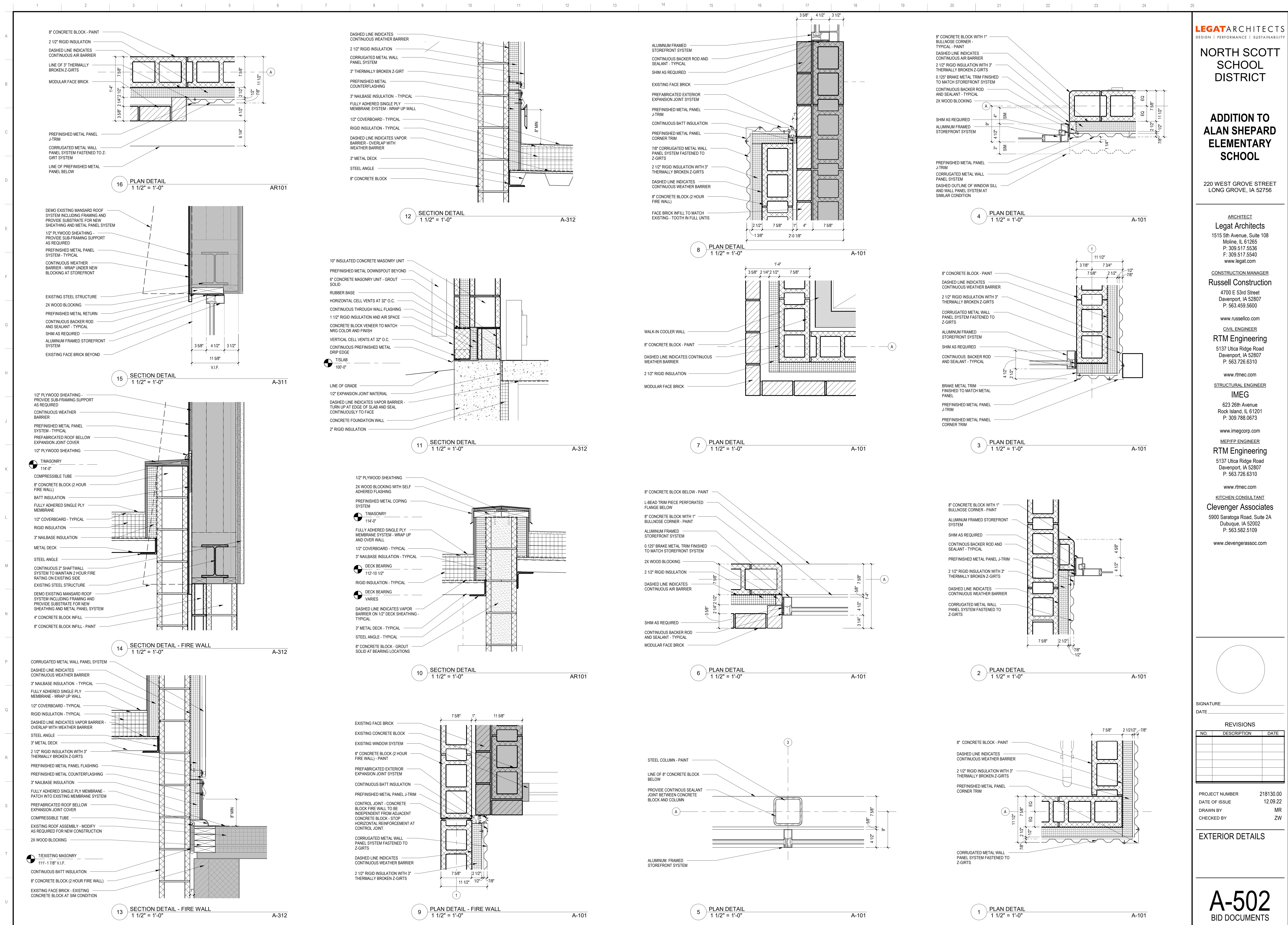


SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

EXTERIOR DETAILS



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

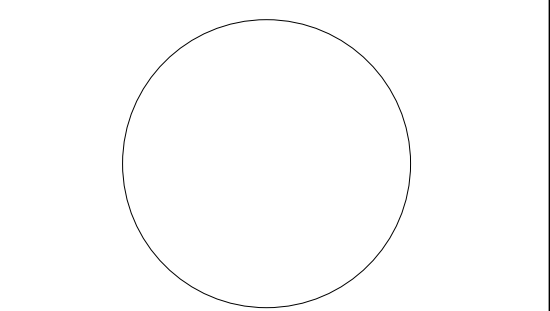
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA/PE ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

EXTERIOR DETAILS

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

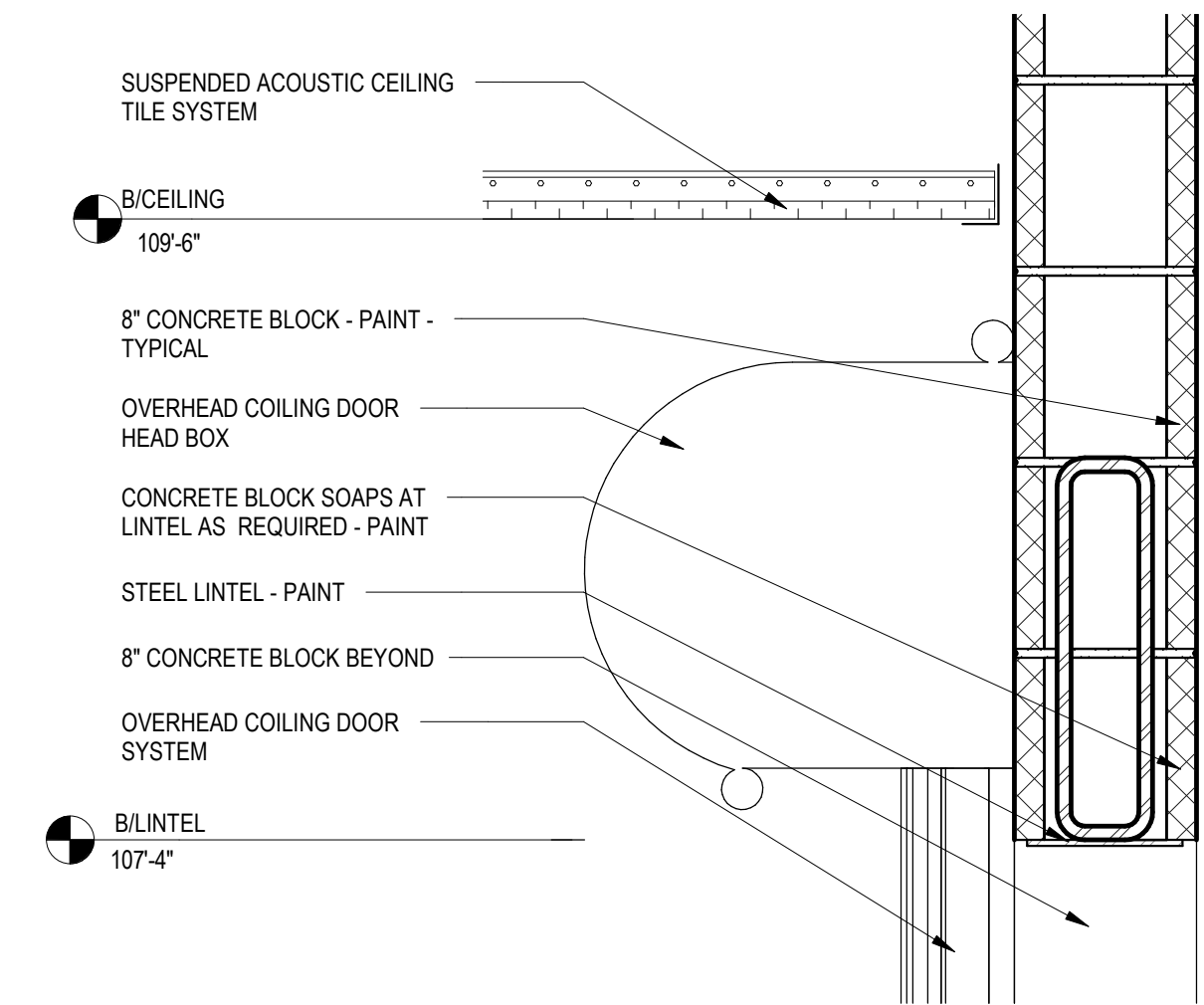
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE
DATE

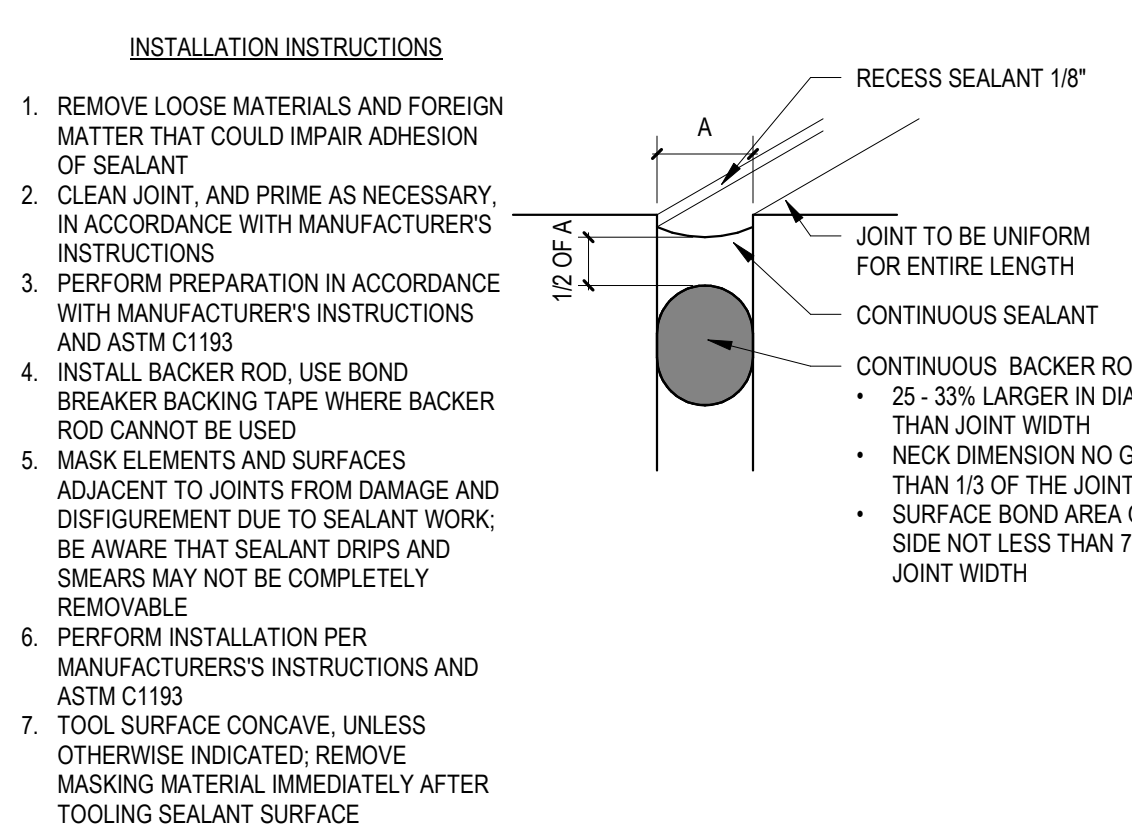
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

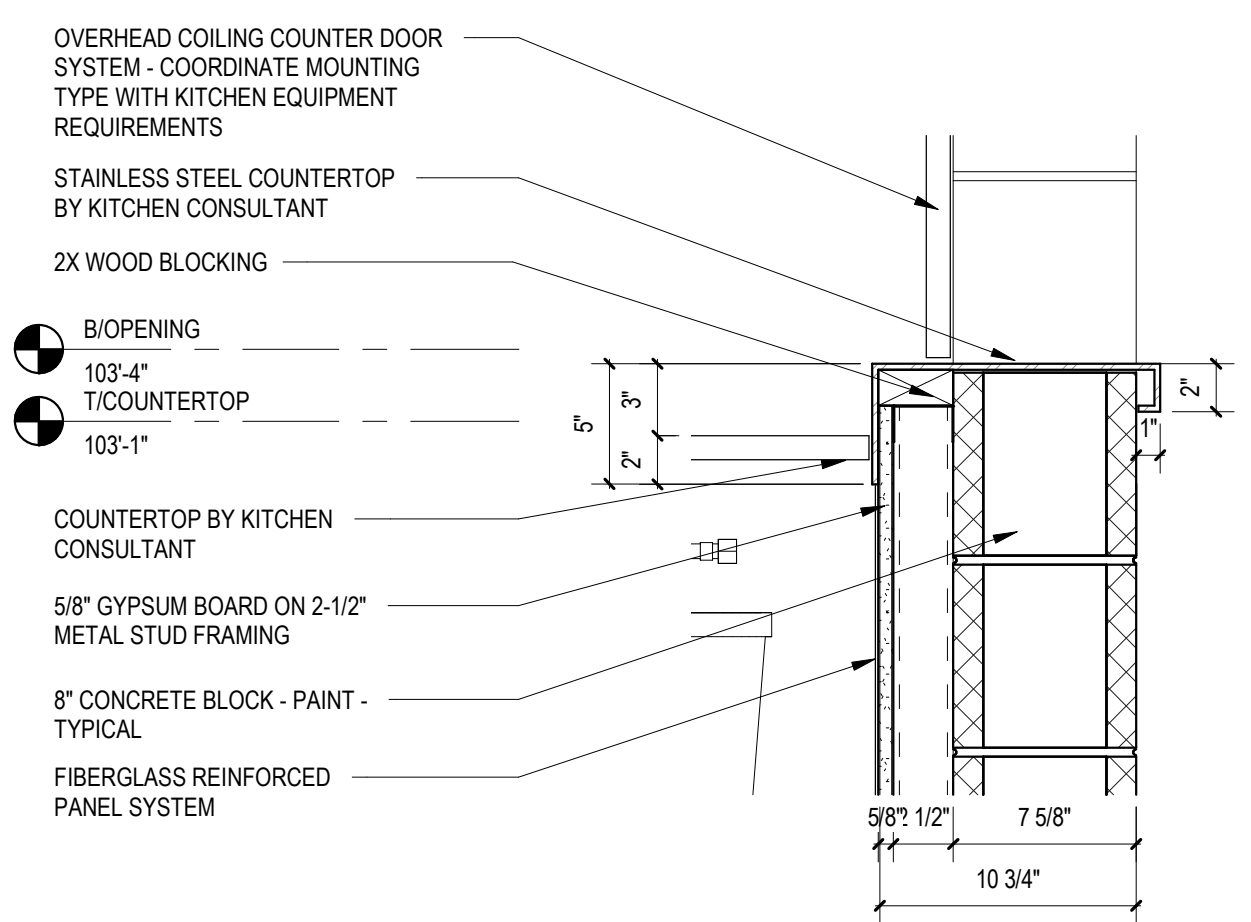
INTERIOR DETAILS



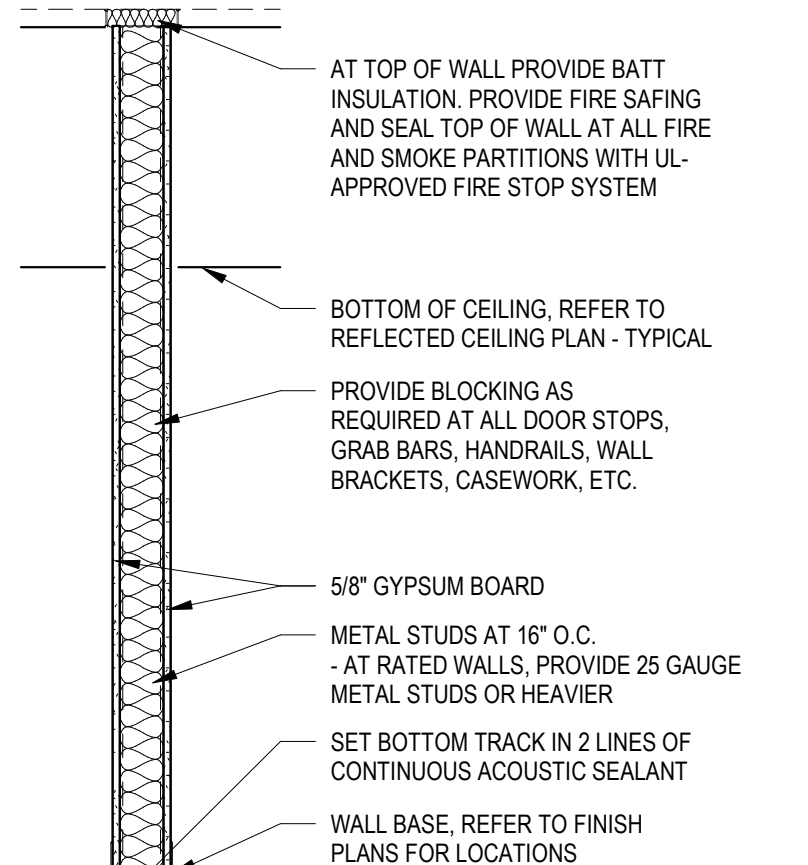
4 SECTION DETAIL - OVERHEAD DOOR HEAD DETAIL
1 1/2" = 1'-0" A-312



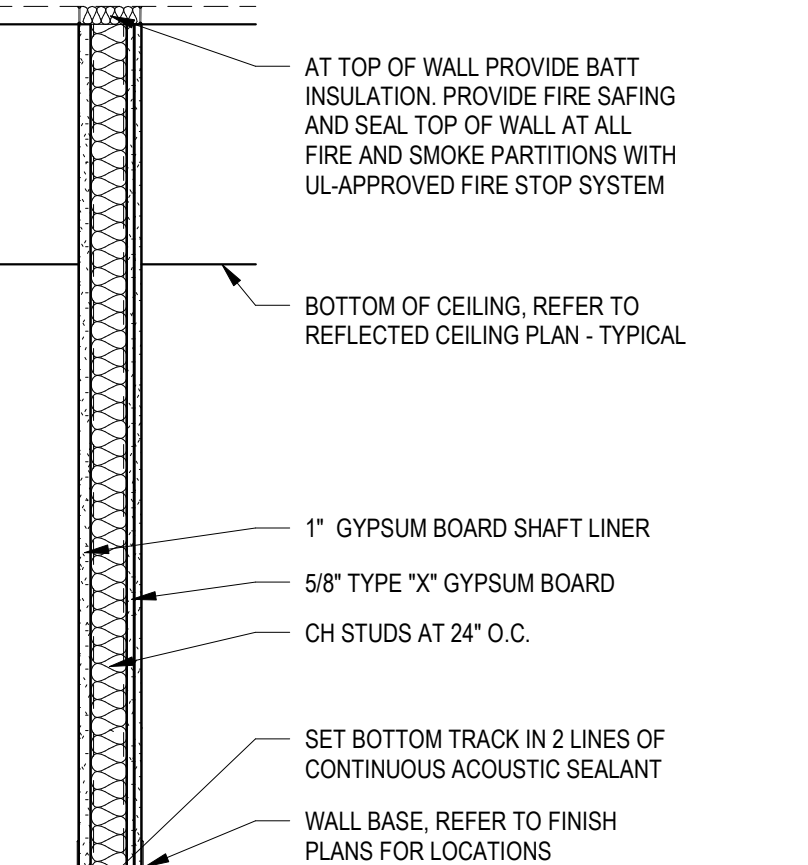
7 BACKER ROD & SEALANT DETAIL
12" = 1'-0"



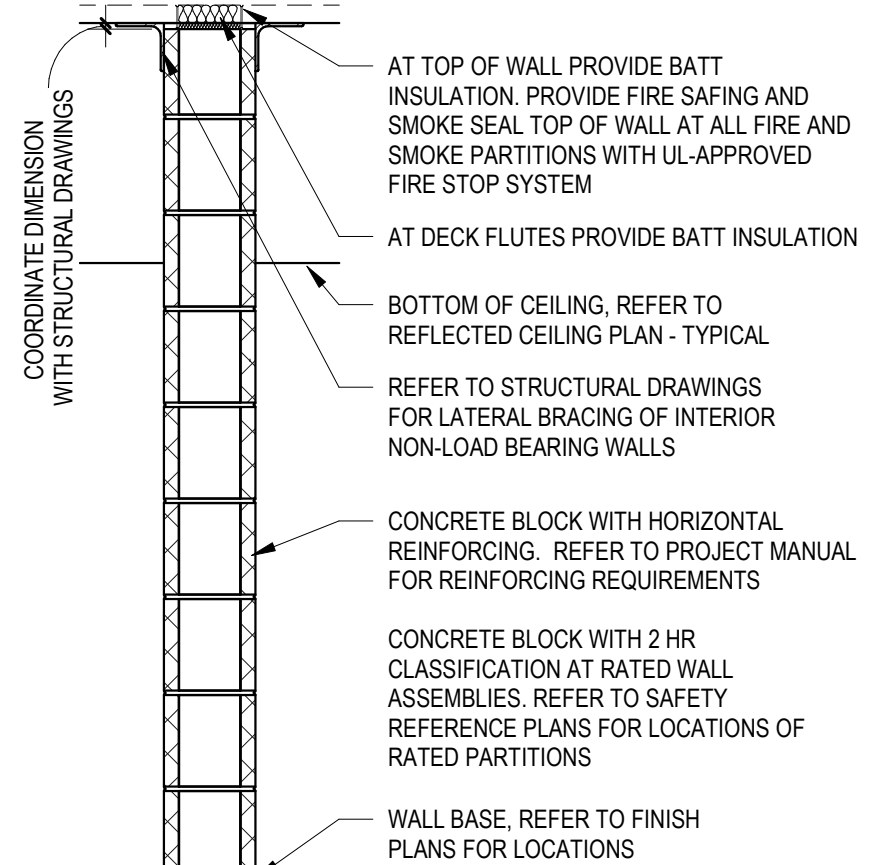
3 SECTION DETAIL - COILING DOOR COUNTERTOP
1 1/2" = 1'-0" A-312



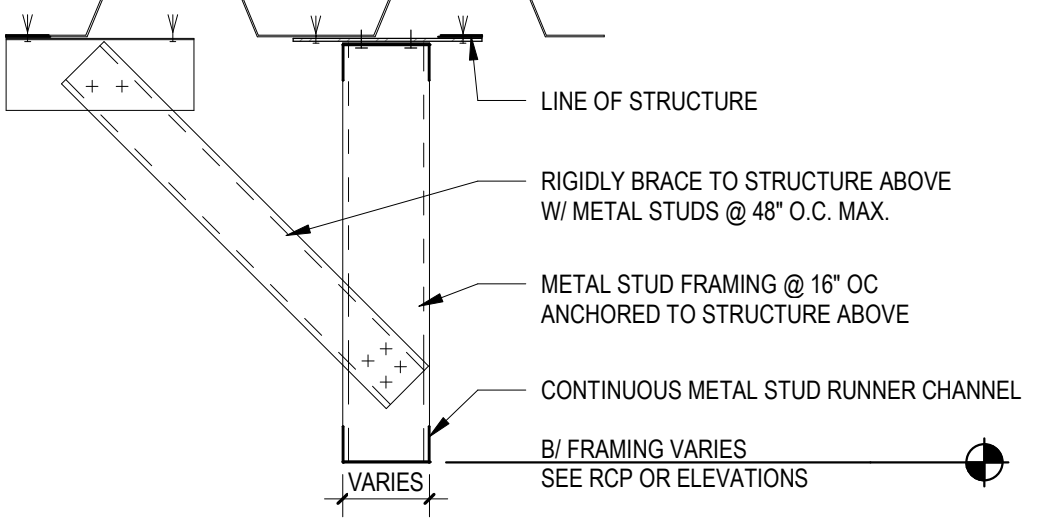
UL: U419 (1HR OR 2HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS
STC: S3F; 40, S3FA; 49, S3F(3); ... S3FA(3); ... S3F(4); 48, S3FA(4); 56



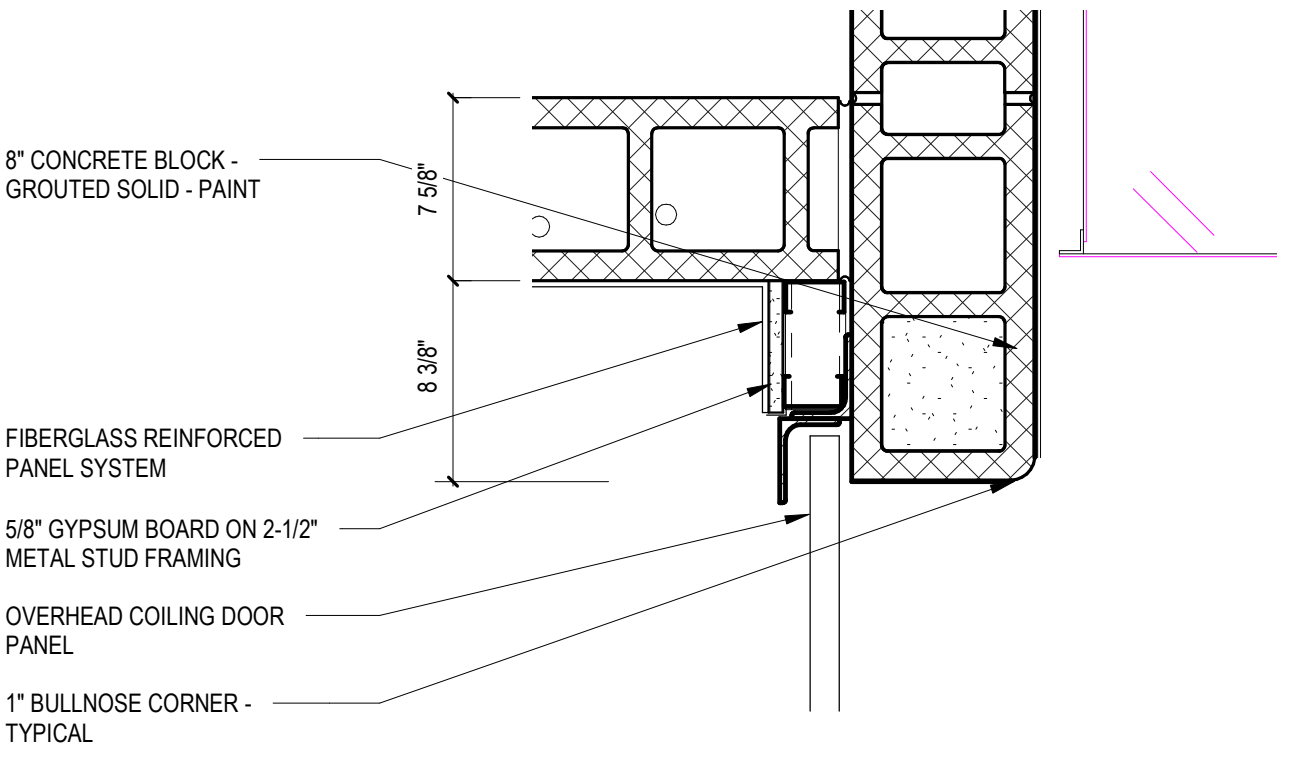
UL: U459 (1 HR) OR U438 (2 HR) OR ARCHITECT APPROVED EQUAL, REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS
STC: SEE BELOW



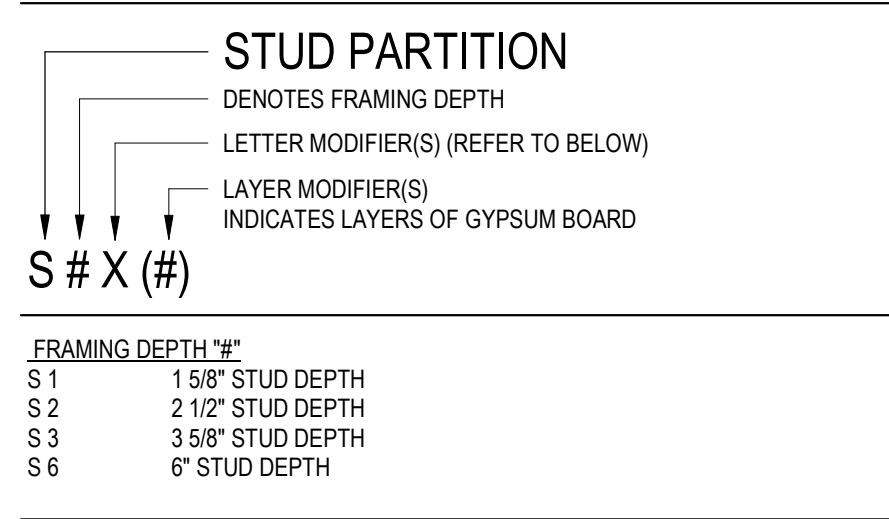
UL: U905 (2HR); U906 (2HR) 6" AND 8" CMU ONLY; U904 (3HR); U901 (4HR)
STC: SEE BELOW



6 KICKER TO METAL DECK
1 1/2" = 1'-0"



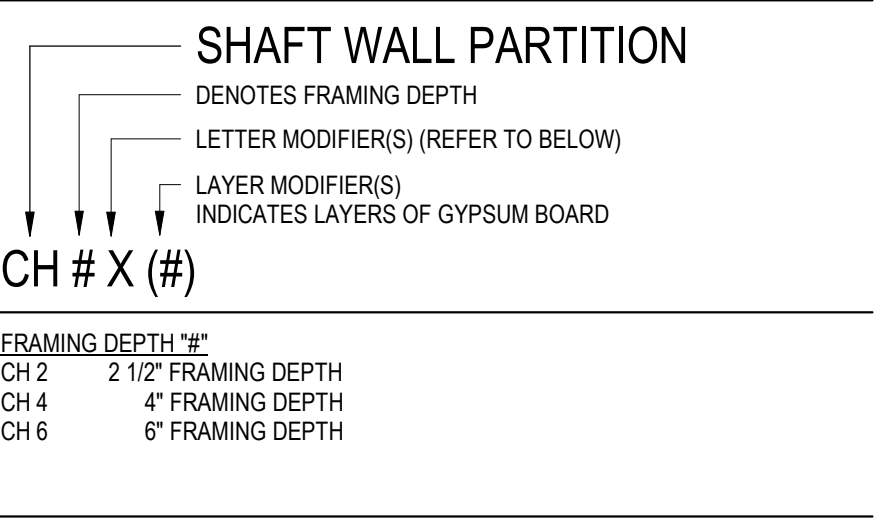
2 PLAN DETAIL - COILING DOOR JAMB
1 1/2" = 1'-0" A-101



LETTER MODIFIERS "X"
S # F FRAMING FULL HEIGHT TO STRUCTURE ABOVE AND GYPSUM BOARD TO 6" ABOVE CEILING
S # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE (STC: 40-48)
S # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 49-56)
S # R RATED PARTITION

LETTER MODIFIERS "W"
S # X TWO (2) LAYERS OF GYPSUM BOARD, ONE (1) ON EACH SIDE (1HR)
S # X (1) ONE (1) LAYER OF GYPSUM BOARD, REFER TO DRAWINGS.
S # X (3) THREE (3) LAYERS OF GYPSUM BOARD, ONE (1) ON ONE SIDE, TWO (2) ON THE OTHER SIDE - REFER TO DRAWINGS (STC: 54)
S # X (4) FOUR (4) LAYERS OF GYPSUM BOARD, TWO (2) ON EACH SIDE (2HR) (STC: 48, OR 56)

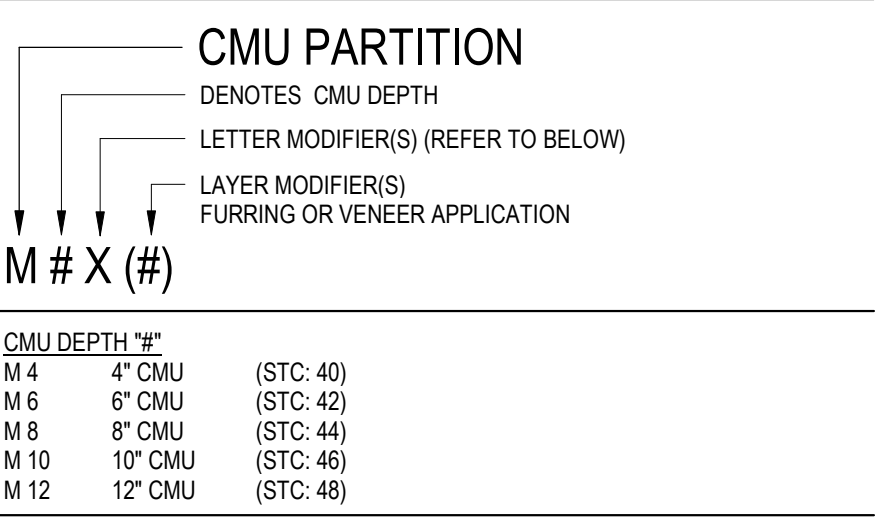
NOTES
1. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS.



LETTER MODIFIERS "X"
CH # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 42 BASED ON 4" STUD)
(STC: 50 BASED ON 4" STUD)

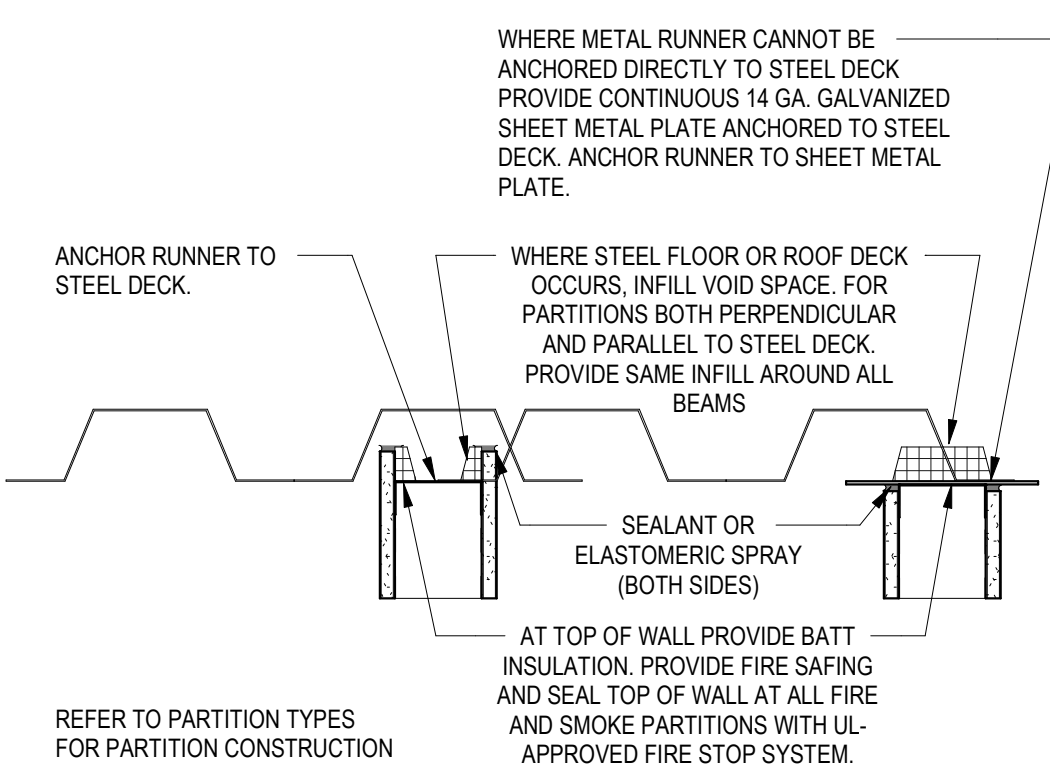
LAYER MODIFIERS "W"
CH # X (1) 1 HR
CH # X (2) 2 HR

NOTES

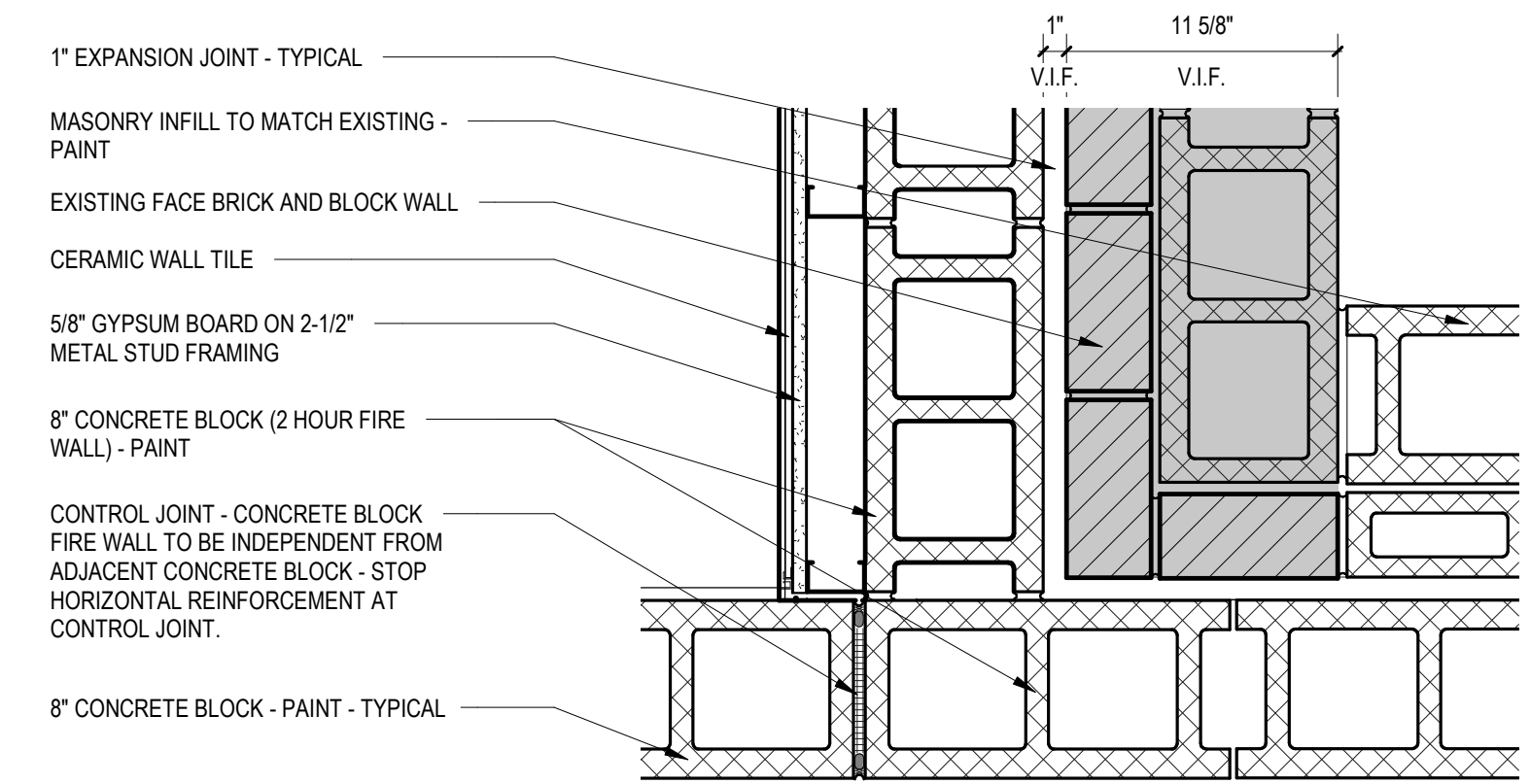


LETTER MODIFIERS "X"
M # STANDARD CMU
M # R1 1-HOUR RATED PARTITION
M # R2 2-HOUR RATED PARTITION

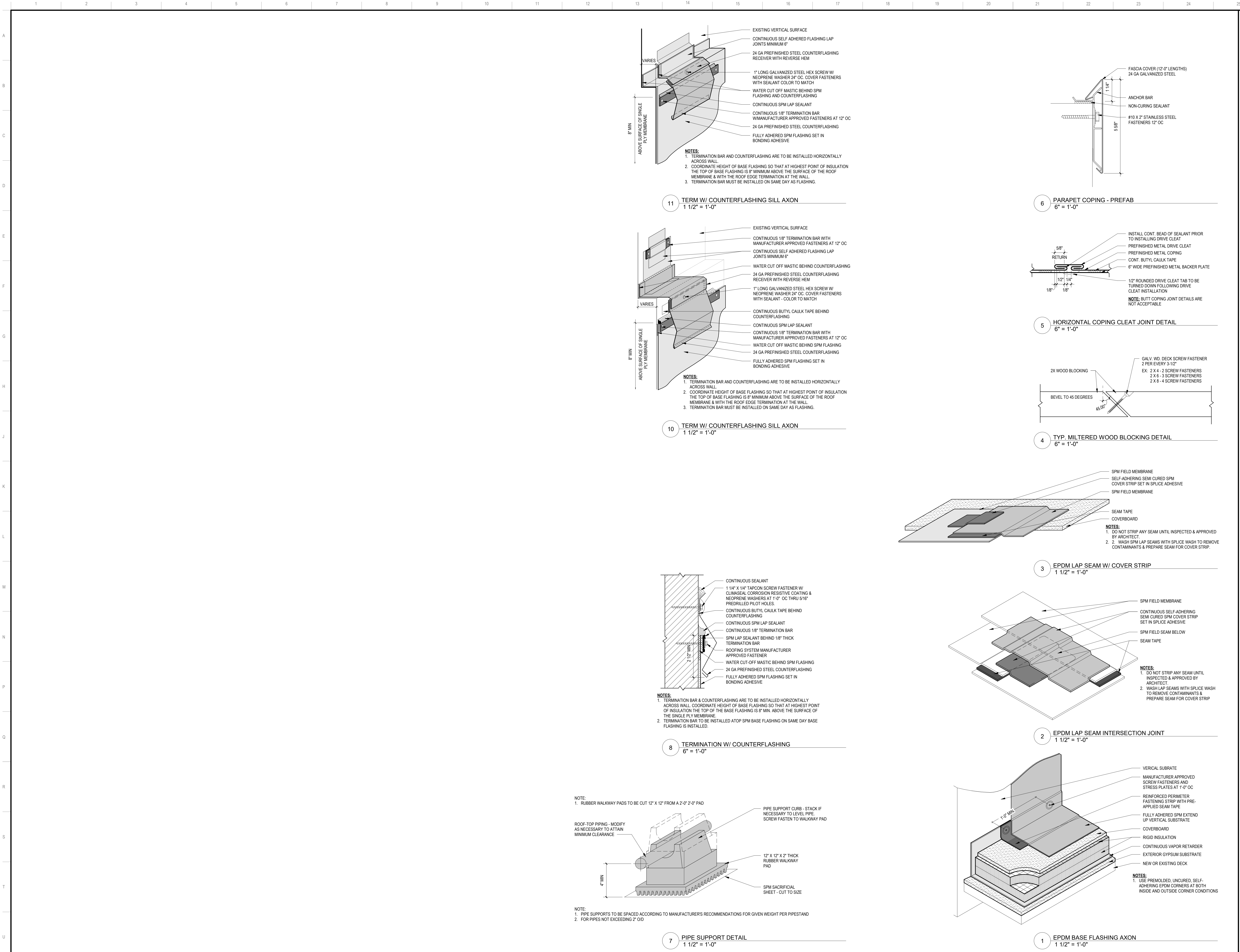
NOTES
1. STC VARIES BASED ON DENSITY AND TYPE OF CMU, AND TYPE OF FILL WHERE REQUIRED
2. REFER TO STRUCTURAL DRAWINGS FOR TOP OF WALL CONDITION AT LOAD BEARING CMU PARTITIONS.



5 STUD TO STEEL DETAIL
1 1/2" = 1'-0"



1 PLAN DETAIL - FIRE WALL
1 1/2" = 1'-0" A-101



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

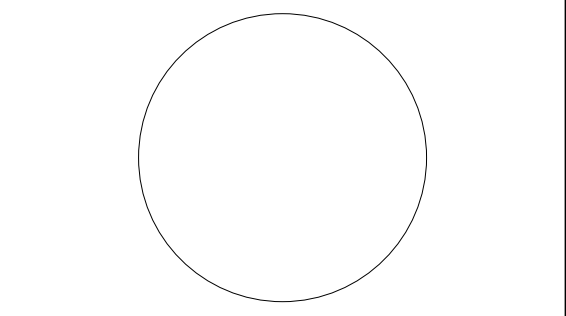
www.russellco.com
CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com
STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.imegcorp.com
ME/P/FP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com
KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

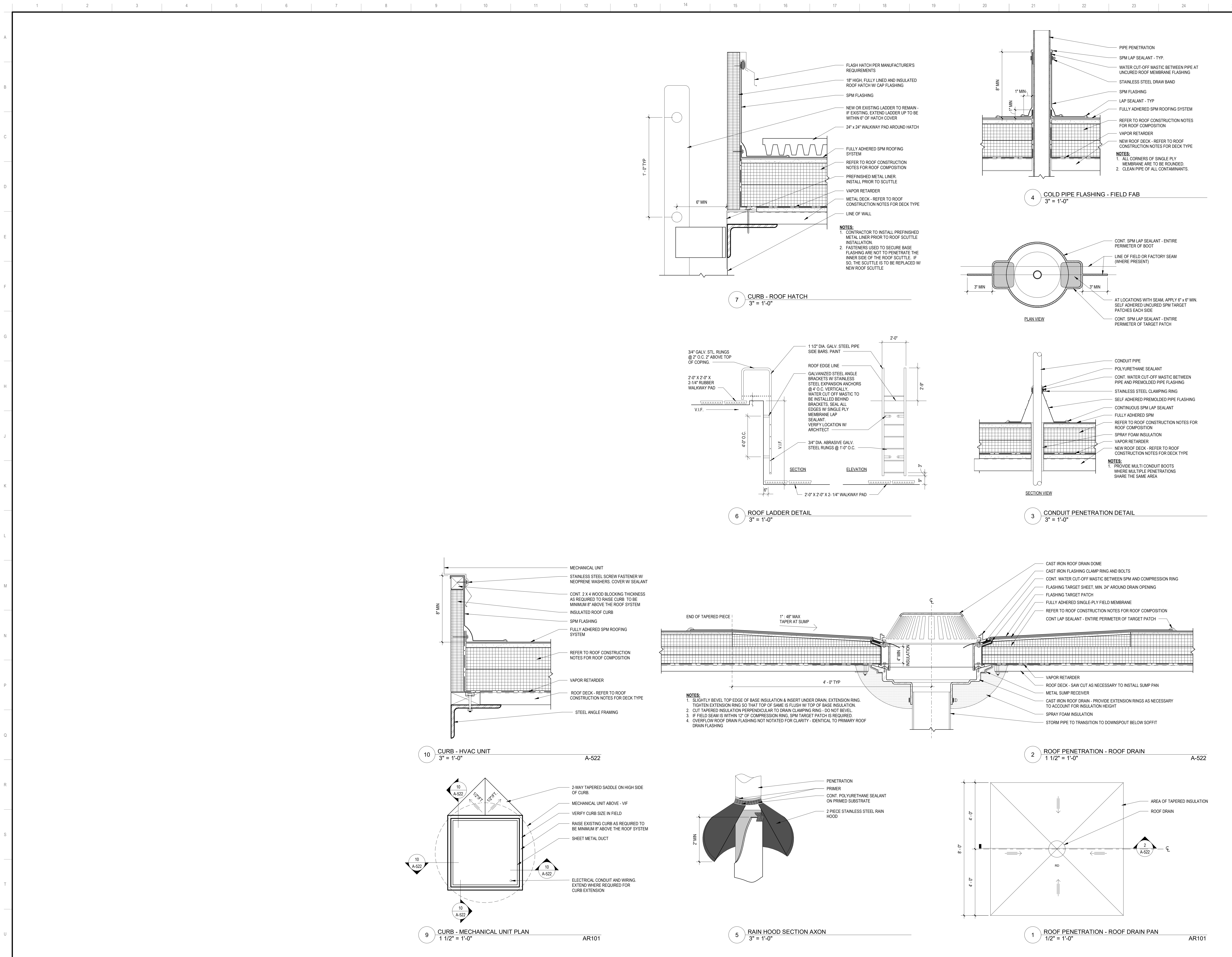


SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

TYPICAL ROOF DETAILS
- PREFINISHED METAL



NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

ME/P/FP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

SIGNATURE
DATE

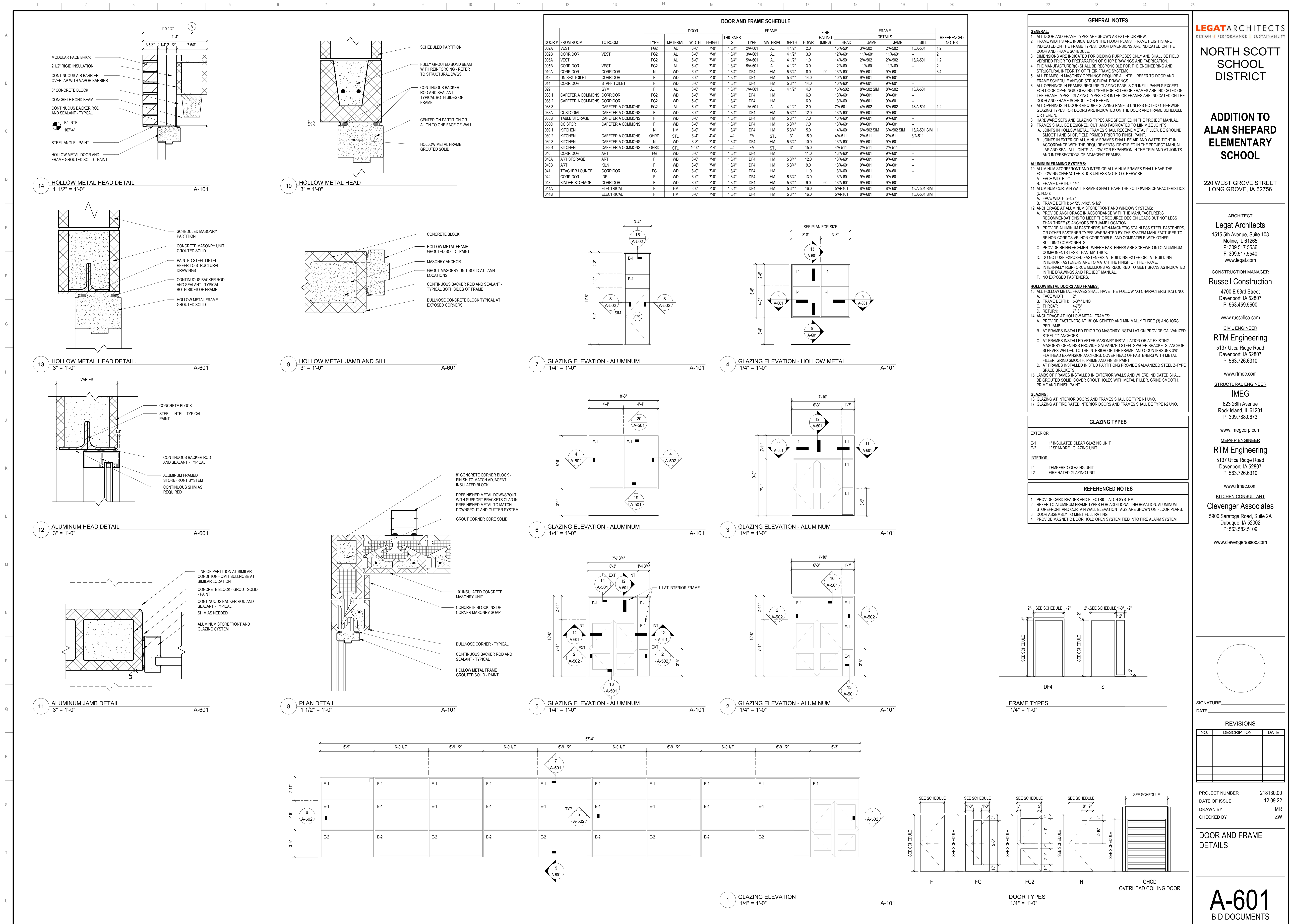
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

TYPICAL ROOF DETAILS
- SINGLE-PLY
MEMBRANE

A-522

BID DOCUMENTS



LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.8600

CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA/PEP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

SIGNATURE _____
DATE _____

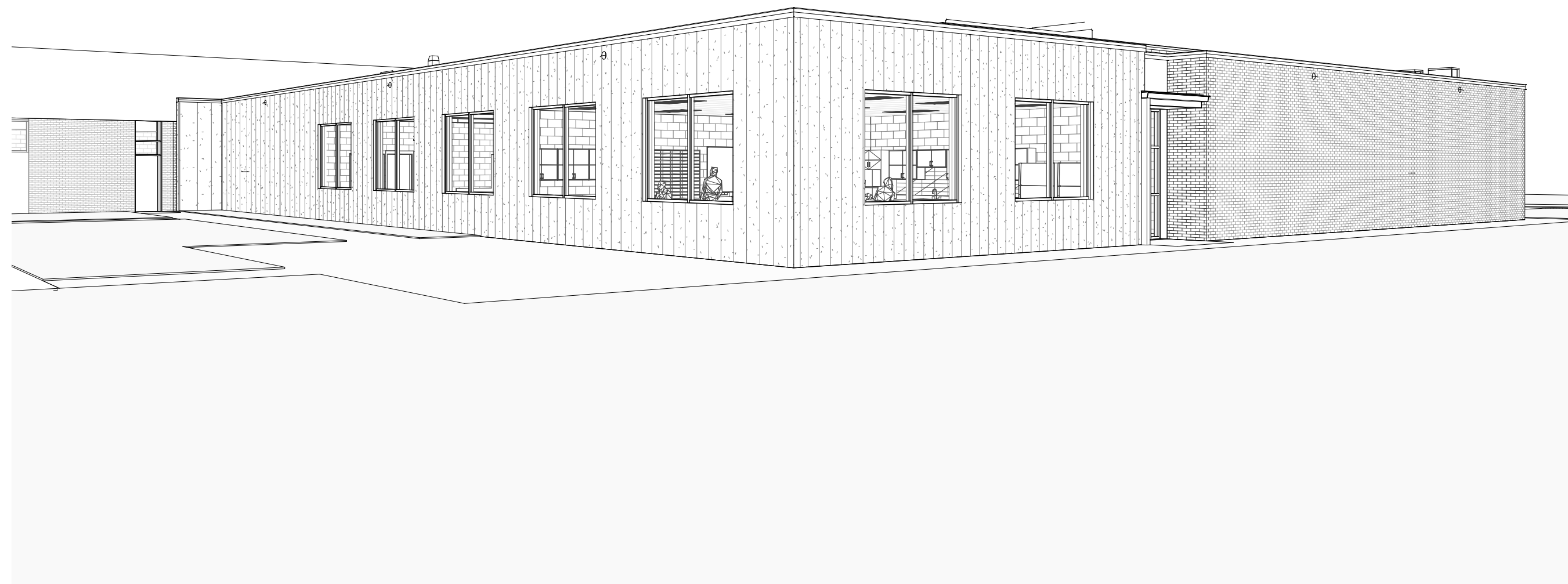
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY MR
CHECKED BY ZW

DOOR AND FRAME DETAILS

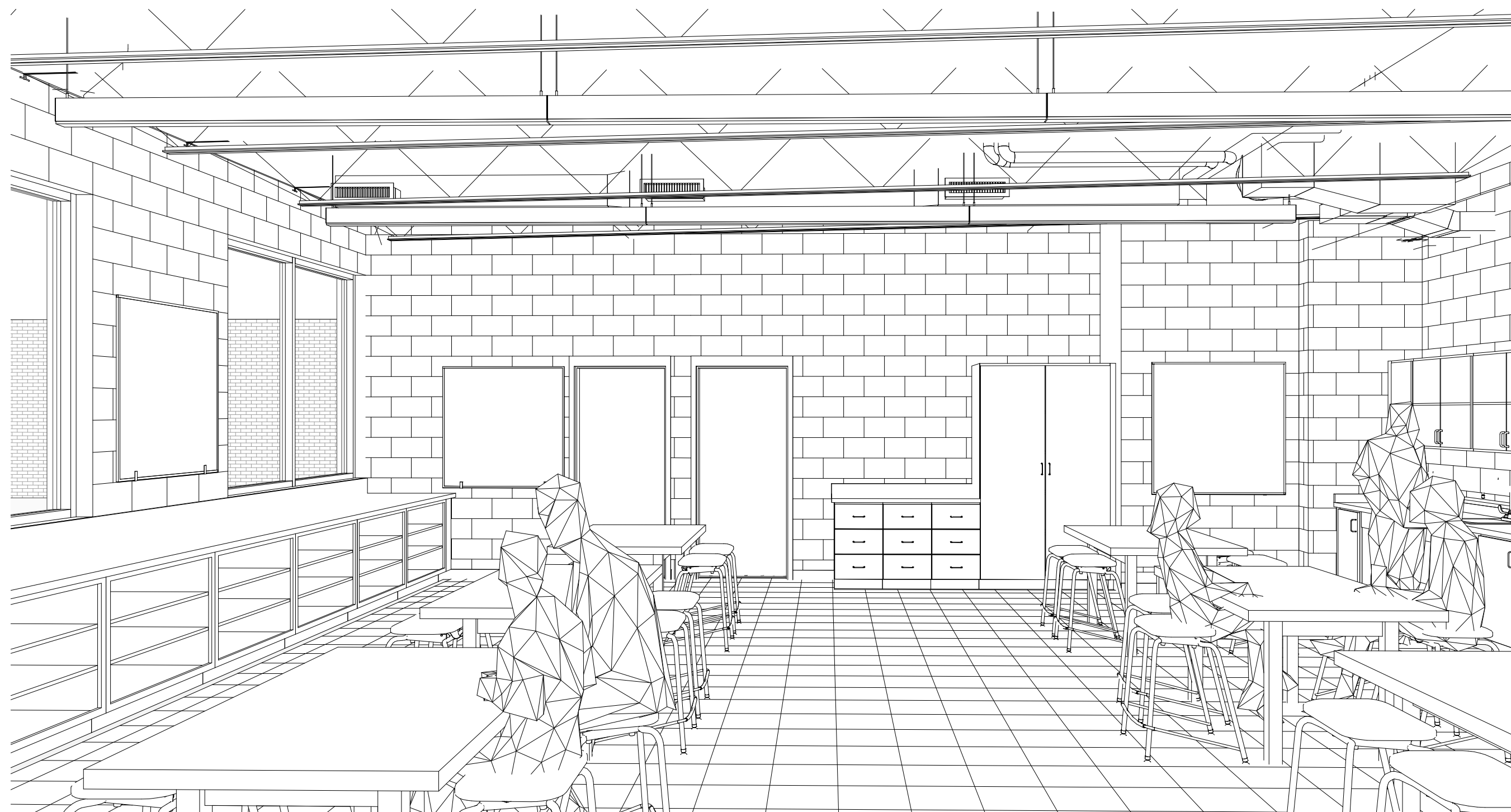
A-601
BID DOCUMENTS



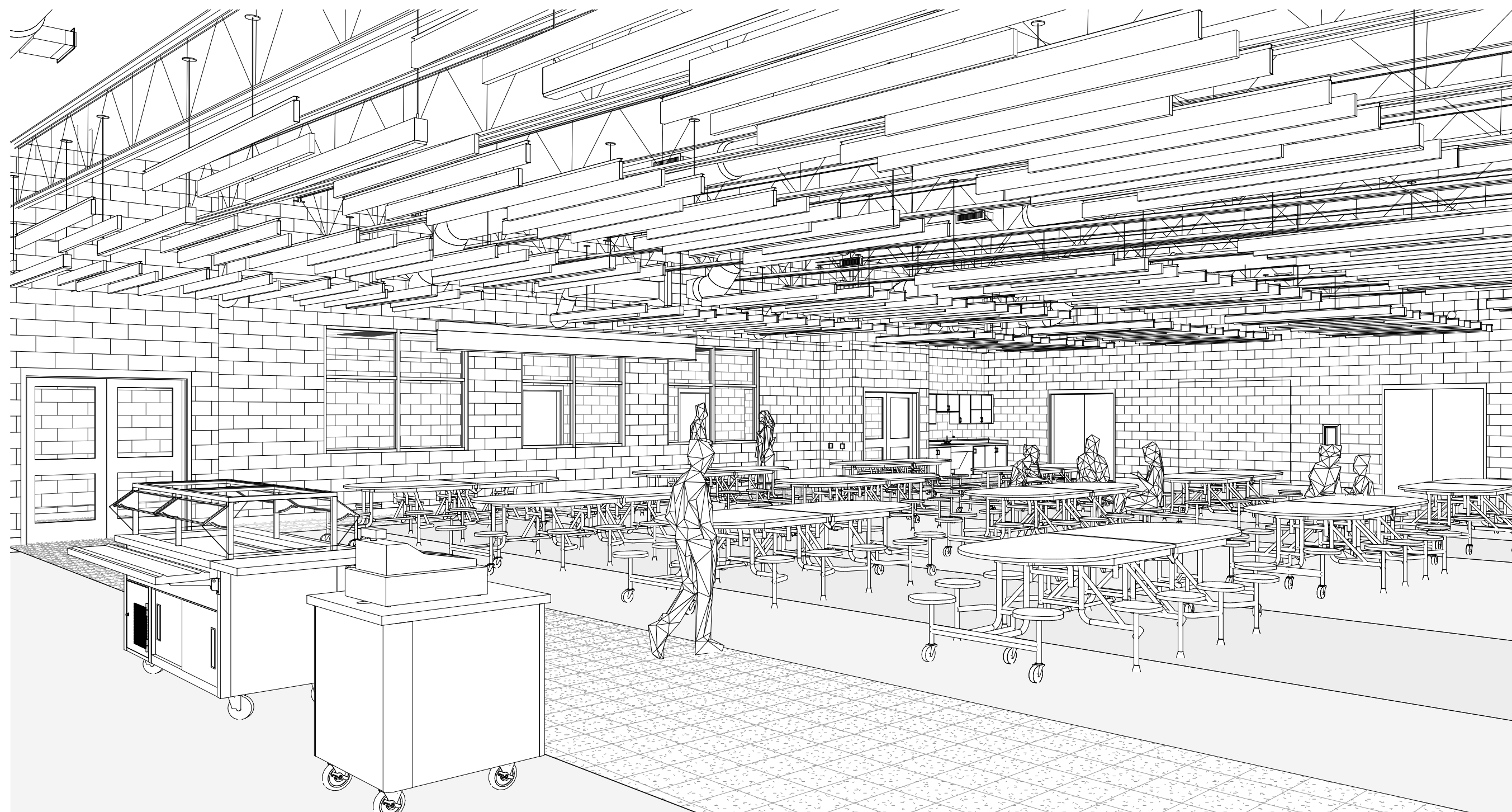
6 EXTERIOR PERSPECTIVE



3 EXTERIOR PERSPECTIVE



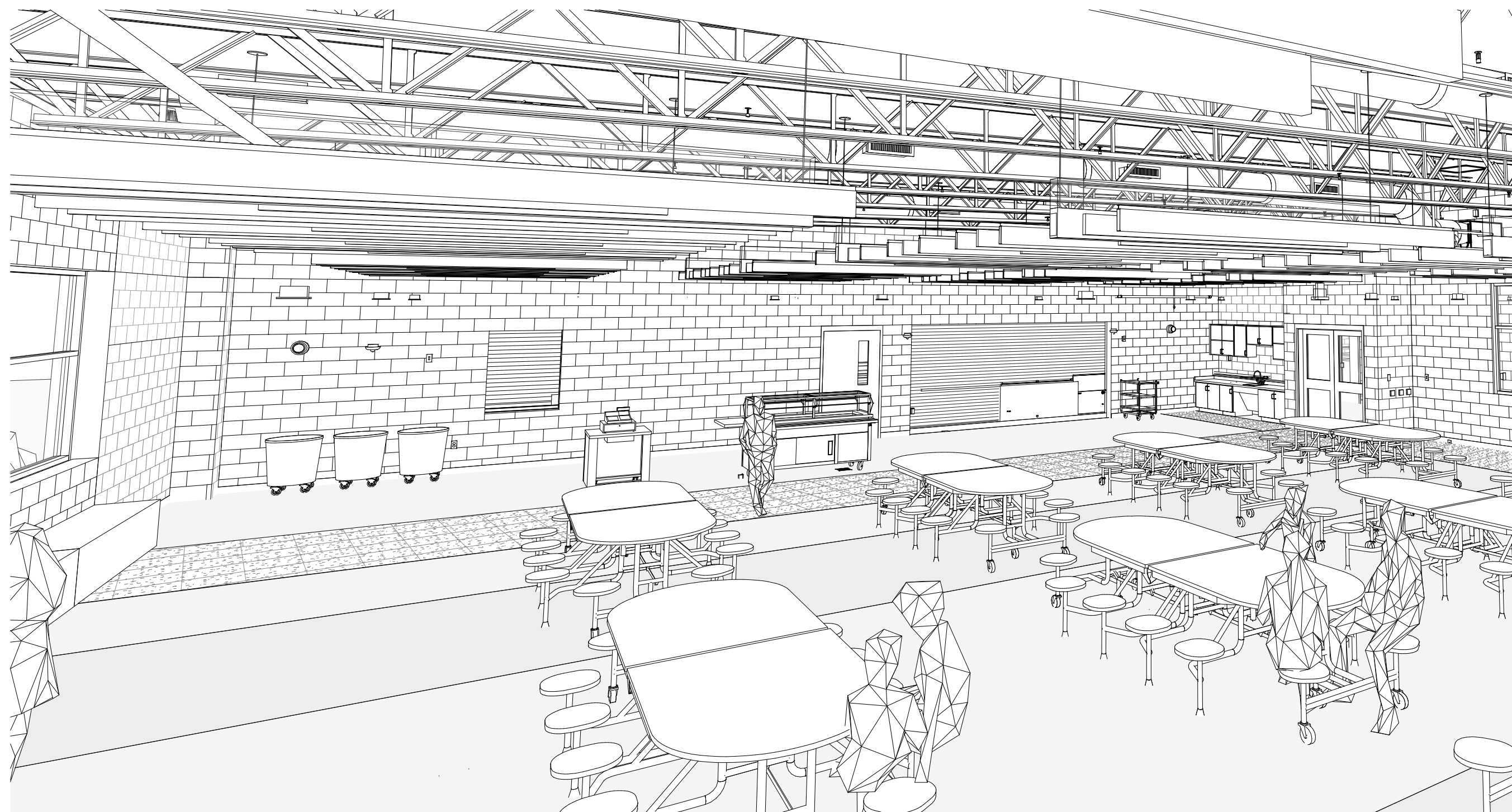
5 ART PERSPECTIVE



2 COMMONS PERSPECTIVE



4 TEACHERS LOUNGE



1 COMMONS PERSPECTIVE

NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

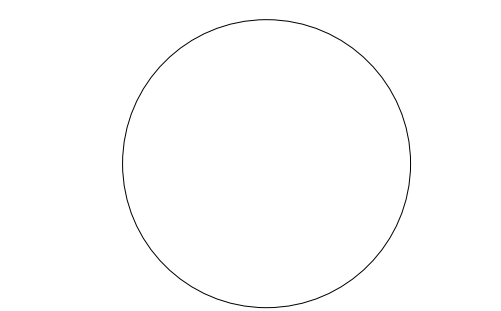
CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

ME/P E P ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com

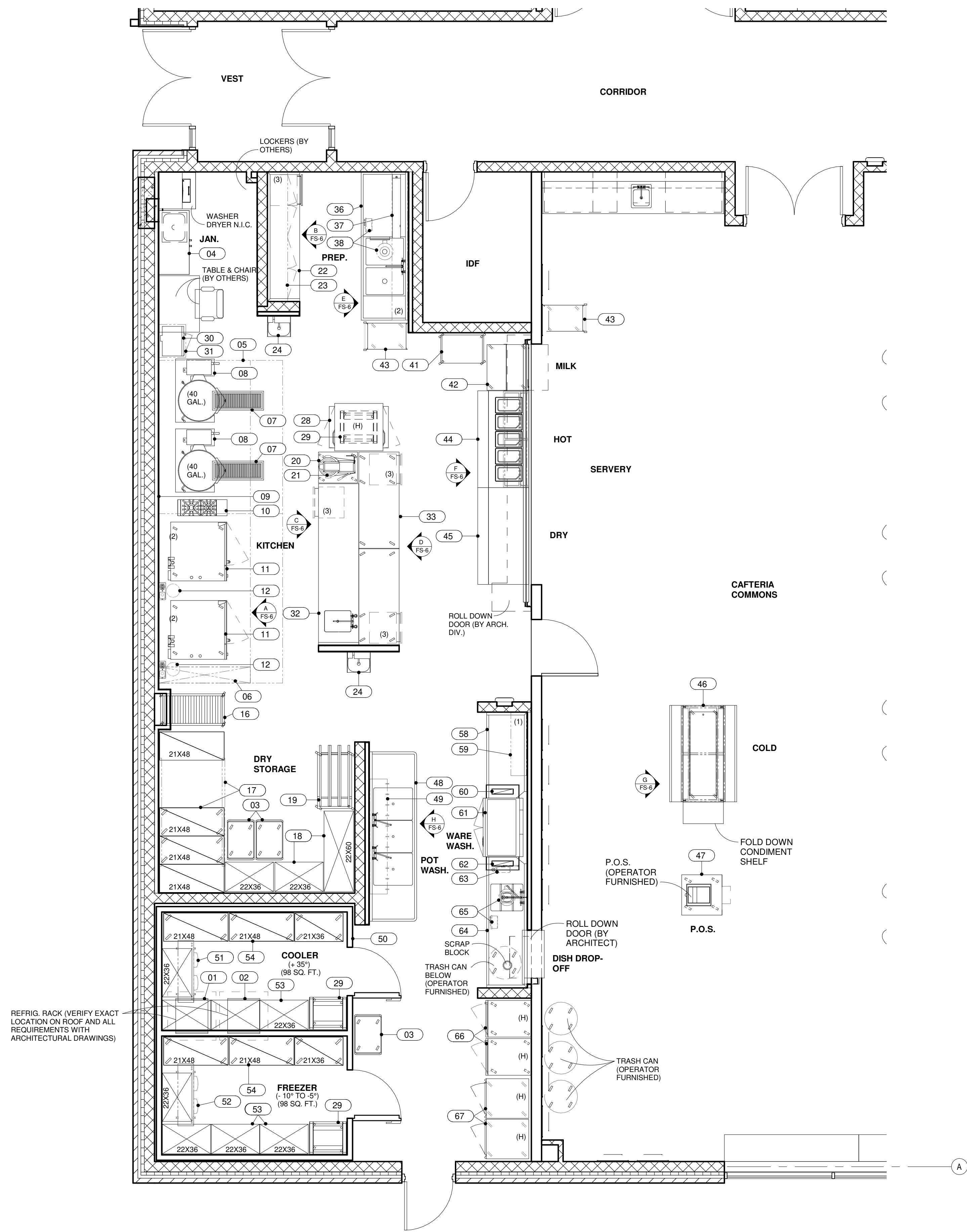


SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY KW
CHECKED BY ZW

PERSPECTIVE VIEWS



1 EQUIPMENT PLAN
1/4" = 1'-0"

EQUIPMENT SCHEDULE				
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
01	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A17Z-TFC-075
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAM-A10Z-TFC-075
03	3	MOBILE UTILITY CART	LAKE SIDE	222
04	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR
05	1	EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1)	HALTON	KVE
06	1	FIRE SUPPRESSION SYSTEM	ANSUL	
07	2	FLOOR TROUGH AND GRATE	BSI	FTAS
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A
09	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
10	1	MOBILE 2 O/B RANGE W/ CABINET BASE	VULCAN	V2B12B
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
13	1	SPARE NUMBER		
14	1	SPARE NUMBER		
15	1	SPARE NUMBER		
16	1	MOBILE POT AND PAN RACK	NEW AGE INDUSTRIAL	PM2448
17	1	HIGH DENSITY STORAGE SHELVING	METRO	HIGH DENSITY QWIKTRAK
18	3	DUNNAGE RACK	METRO	HP2236PD/HP2260D
19	1	MOBILE CAN RACK	NEW AGE INDUSTRIAL	1250CK
20	1	MOBILE MIXER STAND	PIPER	MX-29-TSS (MX-52-R)
21	1	MIXER (20 QT.)	UNIVEX	SRM20
22	1	WORKTABLE WITH DRAWERS	CUSTOM FABRICATED	CUSTOM
23	1	WALL CABINET	CUSTOM FABRICATED	CUSTOM
24	2	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
25	1	SPARE NUMBER		
26	1	SPARE NUMBER		
27	1	SPARE NUMBER		
28	1	ROLL-IN HEATED CABINET	CONTINENTAL	DL1W1-SS-RT
29	3	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
30	1	MICROWAVE OVEN	AMANA	RCS10TS
31	1	MICROWAVE SHELF	CUSTOM FABRICATED	CUSTOM
32	1	WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM
33	2	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM
34	1	SPARE NUMBER		
35	1	SPARE NUMBER		
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FPN2840-2-18R-48TL
37	2	WALL SHELF	CUSTOM FABRICATED	CUSTOM
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
39	1	SPARE NUMBER		
40	1	SPARE NUMBER		
41	1	MOBILE DISH & TRAY CART	PIPER PRODUCTS	721
42	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S
43	2	MOBILE BUSSING CART	LAKE SIDE MANUFACTURING	522
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAN-HTD-SS/RAN-CP72-GL
45	1	MOBILE SERVING COUNTER	RANDELL	RAN-ST-6S
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS-SSO-RCP-S/RAN-SGS72/RAN-INV72
47	1	MOBILE P.O.S. COUNTER (BY OWNER)	CUSTOM FABRICATED	CUSTOM
48	1	POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM
49	1	UTENSIL RACK WITH SHELF (WALL MOUNTED)	CUSTOM FABRICATED	CUSTOM
50	1	WALK-IN COOLER/FREEZER ASSEMBLY	AMERICAN PANEL	
51	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM
52	1	UNIT COOLER (FREEZER)	OMNI	BEL0060BS6EE
53	8	DUNNAGE RACK	METRO	HP2236PD
54	6	MOBILE COOLER/FREEZER SHELVING	METRO	METROMAX Q
55	1	SPARE NUMBER		
56	1	SPARE NUMBER		
57	1	SPARE NUMBER		
58	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM
59	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
60	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	C144eN-ADV2
62	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM
63	1	HOSE REEL WITH SPRAY	FISHER	29661
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
66	2	MOBILE HOT HOLDING CABINET/PROOFER (BY OWNER)	METRO	C539-FS
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	METRO	C549-ASDS-L

CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY,
COMMISSARY AND LAUNDRY
DESIGN CONSULTING
INFO@CLEVENGERASSOC.COM

5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5100
FAX: (563) 582-5100
WWW.CLEVENGERASSOC.COM

BID DOCUMENTS 12-09-22

THIS DRAWING IS INTENDED FOR INFORMATION
PURPOSES ONLY FOR USE BY THE ARCHITECT AND
ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE
APPROVED KITCHEN EQUIPMENT CONTRACTOR
ROUGH-IN DRAWINGS FOR CONSTRUCTION.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

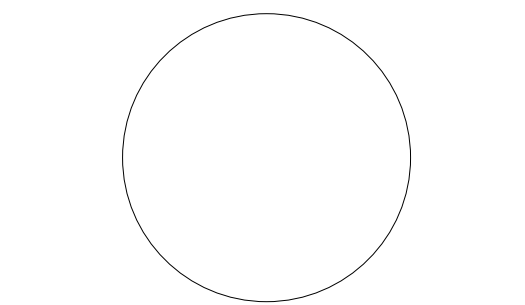
CIVIL ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER
RTM Engineering
5137 Utica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



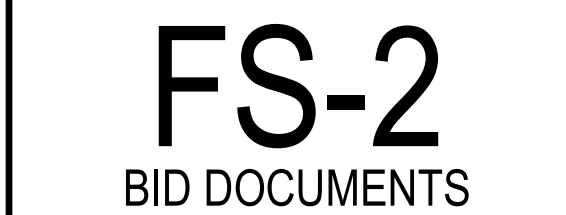
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	12-09-22

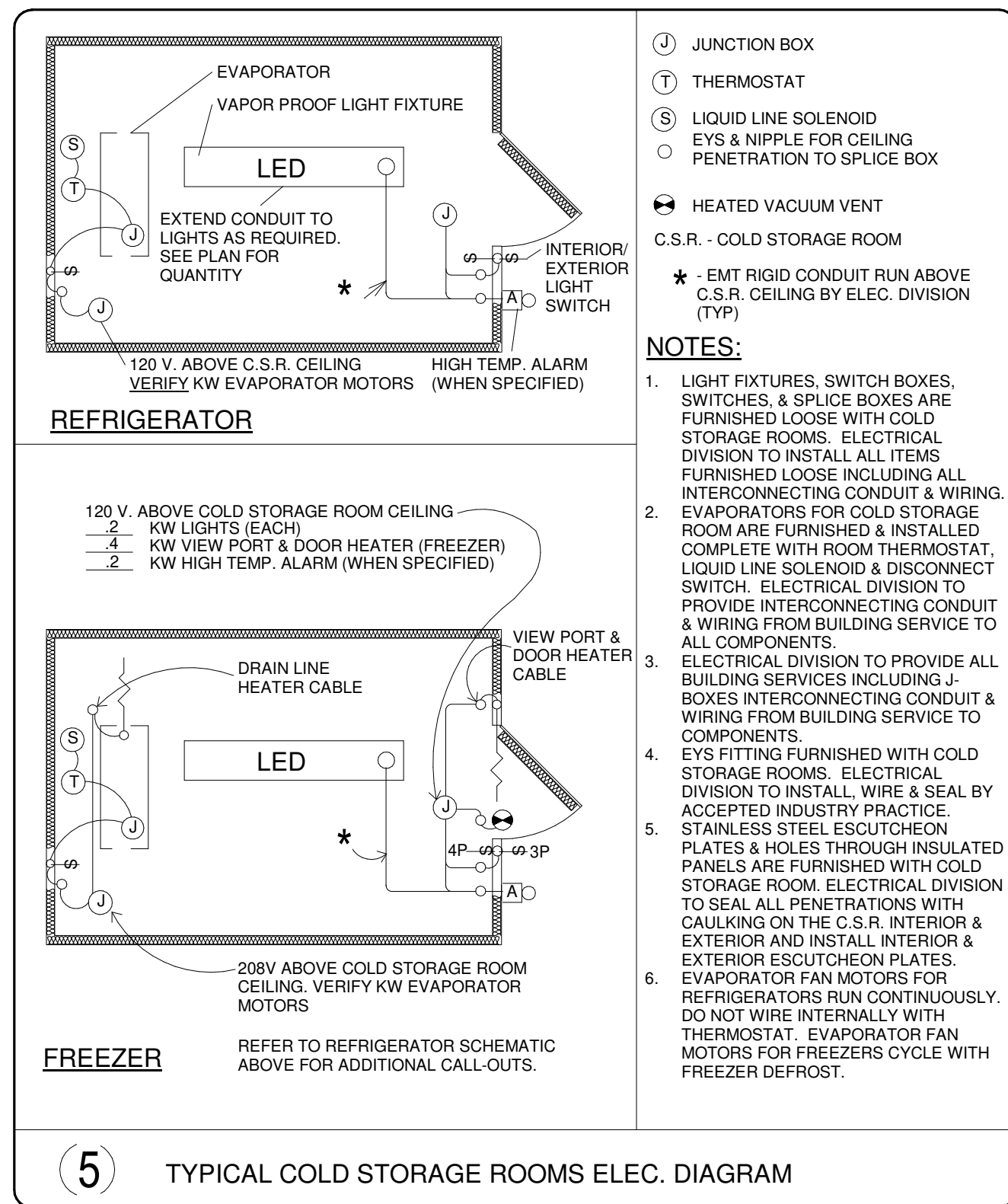
PROJECT NUMBER Project Number
DATE OF ISSUE 12-09-22
DRAWN BY EB
CHECKED BY EN

EQUIPMENT PLAN

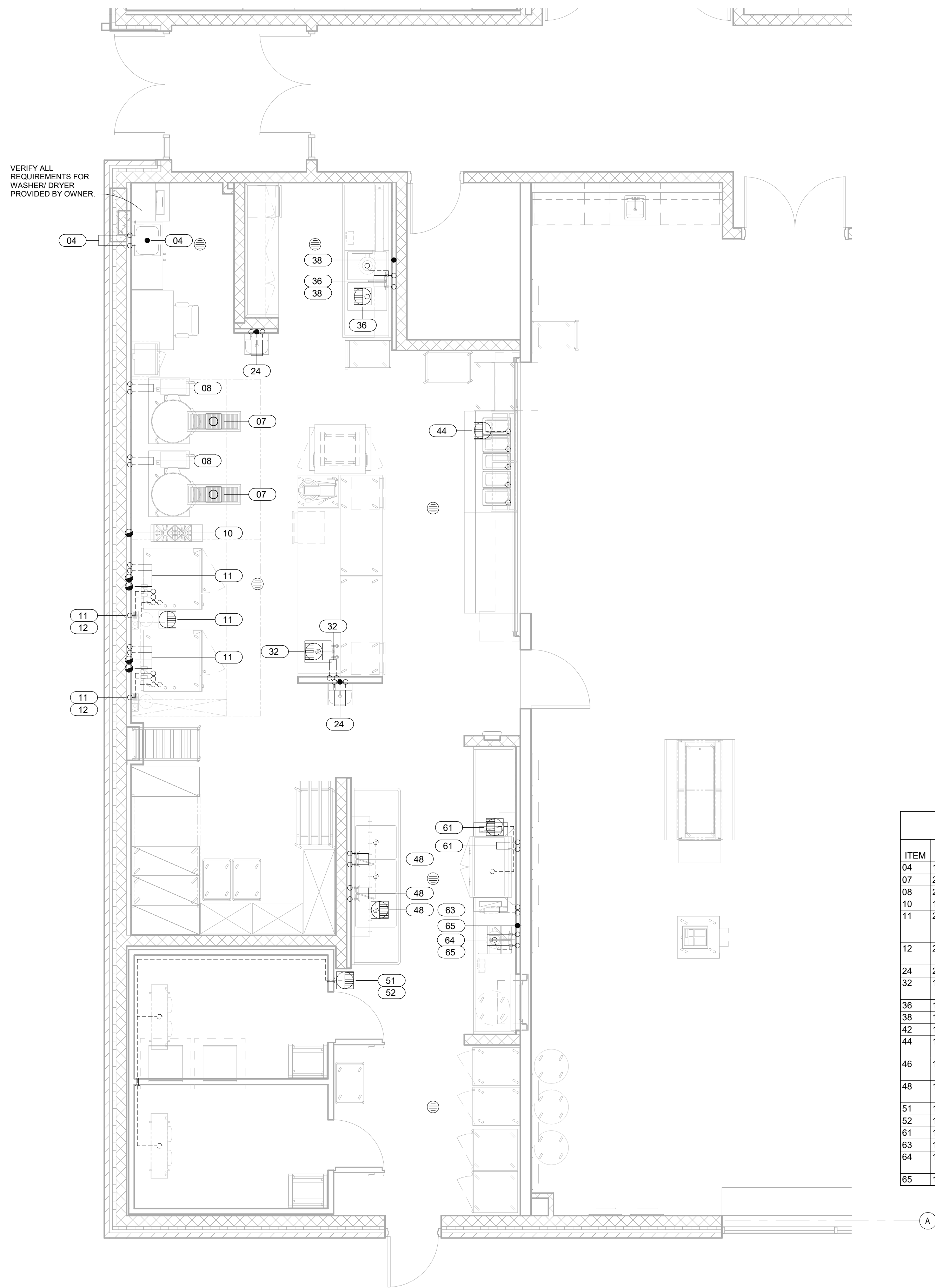
FS-1
BID DOCUMENTS



THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.



ELECTRICAL SCHEDULE													
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	VOLTS	PHASE	AMPS	KW	HP	ELEC TYPE	AFF	ELECTRICAL COMMENTS	ITEM
01	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A17Z-TFC-075	208	3	9.7			DIR		VERIFY LOCATION OF ROUGH-IN	01
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAM-A10Z-TFC-075	208	3	5.2			DIR		VERIFY LOCATION OF ROUGH-IN	02
05	1	EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1)	HALTON	KVE		1				DIR		(2 @ 120V AT 15.0 AMPS EA) STUB DOWN; LIGHT AND FAN SWITCH BY ELEC. DIV.; AUTOSTART/ STOP FAN INTERLOCK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS	05
06	1	FIRE SUPPRESSION SYSTEM	ANSUL		120	1	2.0			DIR		STUB DOWN, CONDUIT RUN ABOVE CEILING	06
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A	208	3	59.0			JBOX	18"		08
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20S-CTP7-20G		1				JBOX		(2 @ 208V AT 4.8 AMPS EA.) STUB AT "24" AND 48" AFF.	11
21	1	MIXER (20 QT.)	UNIVEX	SRM20	120	1	10.6			REC		STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK. VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	21
28	1	ROLL-IN HEATED CABINET	CONTINENTAL	DL1W-SS-RT		1	7.3			REC		(208-230V) STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK. VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	28
30	1	MICROWAVE OVEN	AMANA	RCS10TS	120	1	15.0			REC	60"		30
32	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD	208	3	6.6			JBOX	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	32
48	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S	120	1	7.6			REC	18"		48
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAN, L14D-SS-RAN N CP72-GL	208	1	26.5			REC		STUB UP TO FLOOR RECEPTACLE	44
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS-SSO-RCP-S-RAN SSS72-RAN INV72	120	1	3.5			REC		STUB UP TO FLOOR RECEPTACLE	46
50	1	WALK-IN COOLER /FREEZER ASSEMBLY	AMERICAN PANEL			1				DIR		(2 @ 115V AT 8.0 AMPS EA.) STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	50
51	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM	208	1	0.8			JBOX		STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	51
52	1	UNIT COOLER (FREEZER)	OMNI	BEL0060BS6EE	208	1	1.5			JBOX		STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	52
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	C144N-ADV2		3				JBOX	63"	(1 @ 208V AT 55.0 AMPS AND 70.0 AMPS CIRCUIT FOR MACHINE) (1 @ 208V AT 83.9 AMPS AND 90.0 AMPS CIRCUIT FOR BOOSTER HEATER)	61
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD	208	3	6.6			JBOX	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	65
66	2	MOBILE HOT HOLDING CABINET/PROOFER (BY OWNER)	METRO	C539 FS	120	1	16.0			REC	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	66
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	METRO	C549-ADSL-L	120	1	11.7			REC	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	67



- PLUMBING NOTES**
- PLUMBING PLANS SHOW ROUGH-IN POINTS AND SCHEDULED CONNECTIONS. KITCHEN EQUIPMENT CONTRACTOR WILL PROVIDE DIMENSIONED ROUGH-IN DRAWING FOR CONSTRUCTION.
 - WATER PRESSURE IN FOOD AND BEVERAGE AREAS SHOULD BE 50 PSIG (345 KPA) MAXIMUM. WATER PRESSURE AT DISHMACHINES, BOOSTER HEATERS, GLASS AND UTENSIL WASHERS TO BE 25 PSIG (172 KPA).
 - PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, FUEL GAS, STEAM AND WASTE LINES TO FOOD SERVICE AND BEVERAGE EQUIPMENT.
 - PLUMBING CONTRACTOR TO PROVIDE GAS SERVICES AT EQUIPMENT TO MAINTAIN AN 8" (203MM) WATER COLUMN. KITCHEN EQUIPMENT CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS AS REQUIRED BY CODE AND A.G.A. FOR INSTALLATION BY PLUMBING DIVISION IN LINE BETWEEN BUILDING SERVICES AND EQUIPMENT.
 - PLUMBING DIVISION TO SUPPLY GAS SHUT OFF VALVE AT EACH EQUIPMENT CONNECTION AND INSTALL WITHIN EQUIPMENT SPREADERS OR CHASES FOR EASY ACCESSIBILITY.
 - MECHANICAL ENGINEER TO SIZE GAS ROUGH-IN FOR RANGE BATTERIES. SCHEDULES SHOW LOADS ONLY FOR EACH PIECE NOT THE TOTAL LOOP GAS SERVICES WHEN PRACTICAL.
 - PLUMBING DIVISION SHALL INSTALL AND CONNECT ALL FAUCETS FURNISHED BY KEC.
 - PLUMBING DIVISION SHALL FURNISH AND INSTALL ALL INDIRECT SINK AND VENTILATOR WASTE LINES TO FLOOR SINKS.
 - PLUMBING DIVISION TO PROVIDE ADEQUATE CLEAN-OUT FOR DRAIN LINES.
 - KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL FIRE PROTECTION SYSTEM INCLUDING FURNISHING SOLENOID SHUTOFF VALVES. PLUMBING DIVISION SHALL INSTALL SHUTOFF VALVE, VERIFY LOCATION WITH KEC.
 - FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR OR PER LOCAL CODE WITH GRATE COVER AS INDICATED.
 - FLOOR DRAINS INDICATED ARE FOR FOOD AND BEVERAGE AREAS ONLY. ADDITIONAL GENERAL PURPOSE AREA DRAINS SHALL BE LOCATED BY THE PLUMBING ENGINEER/ARCHITECT.
 - EYE/FACE WASH STATION SHALL MEET DOSH EMERGENCY WASHING REQUIREMENTS AND Z238.1 EMERGENCY EYE WASH AND SHOWER REQUIREMENTS. KITCHEN EQUIPMENT CONTRACTOR SHALL VERIFY UNIT MEETS WITH LOCAL JURISDICTION. CODES AND PROVIDE TRAINING. PLUMBING DIVISION SHALL PROVIDE THERMOSTATIC MIXING VALVE AND BACK FLOW PREVENTION TO MEET ALL REQUIREMENTS.

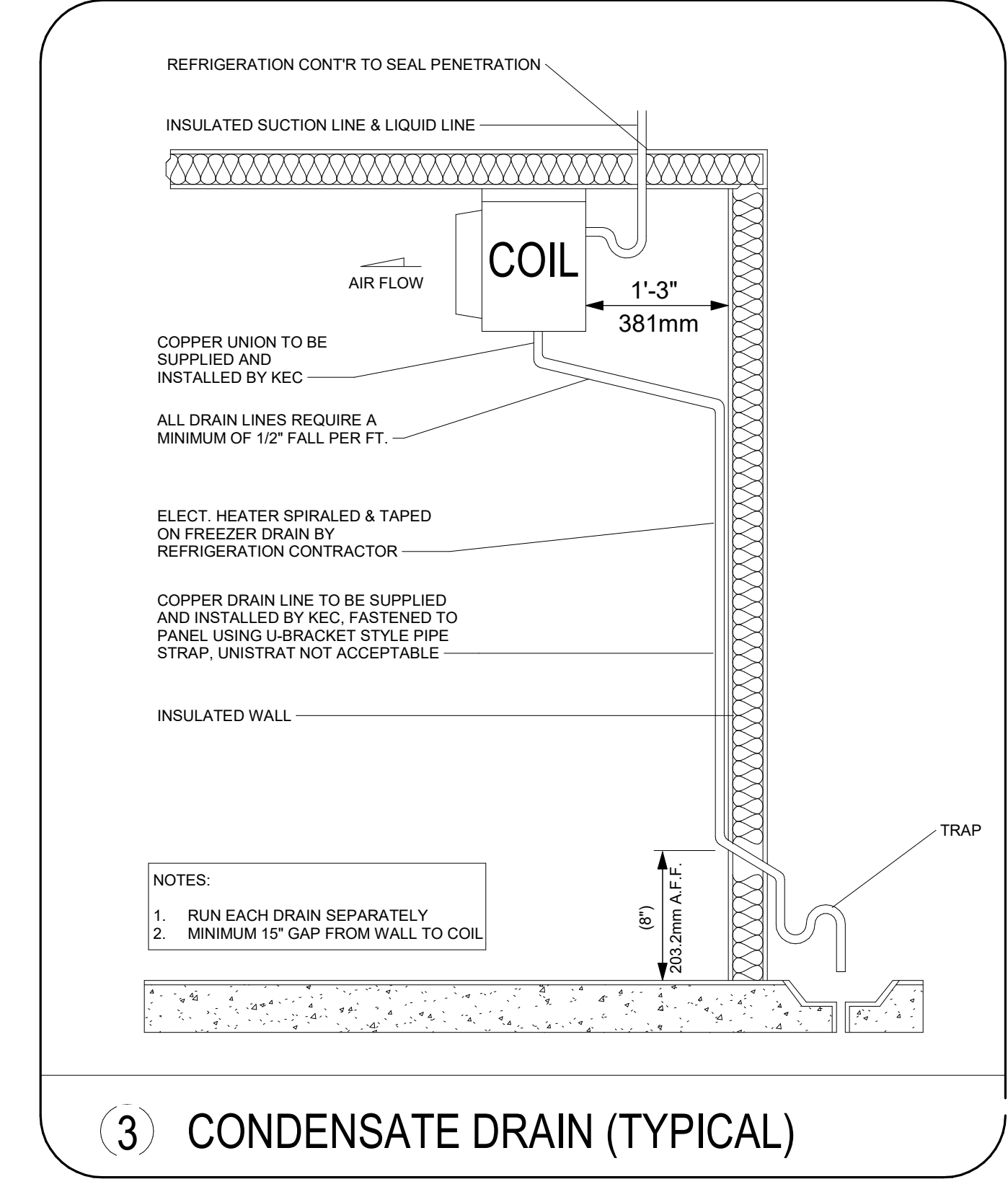
NOTE

KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

- PLUMBING SYMBOLS**
- HW-HOT WATER, OR CW-COLD WATER
 - WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
 - INDIRECT WASTE
 - FLOOR DRAIN
 - FLOOR DRAIN WITH FUNNEL
 - HUB DRAIN
 - DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
 - FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
 - FLOOR SINK WITH FUNNEL GRATE
 - GAS
 - GAS PRESSURE REGULATOR/BY KEC
 - STEAM SUPPLY
 - CONDENSATE RETURN

NOTE

ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURNISH IF REQUIRED.



PLUMBING SCHEDULE															PLUMBING COMMENTS					ITEM
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	AFF	HW GPH	CW SIZE	AFF	WASTE TYPE	DIA	AFF	GAS MBTU	DIA	AFF					
04	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR	1/2"	36"	15	1/2"	36"	DIR	2"	1"				TRAP BELOW FLOOR				04
07	2	FLOOR TROUGH AND GRATE	BSI	FTAS						HUB	3"					VERIFY DRAIN SIZE W/ ENGINEER, TRAP BELOW FLOOR				07
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A	1/2"	36"		1/2"	36"							CONNECT TO FIXTURE MOUNTED FAUCET				08
10	1	MOBILE 2 OIB RANGE W/ CABINET BASE	VULCAN	V2B12B						FS			70	3/4"	24"	PROVIDE QUICK DISCONNECT				10
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G												(6 @ 3/4" C.W. RUN (4) C.W. FROM ITEM 12, WATER FILTER, 4 @ 1 1/2" WASTE, 4 @ 3/4" GAS CONNECTIONS, 98 MBTU EA. STUB OUT AT +24" AND +48" AFF. PROVIDE QUICK DISCONNECT FOR GAS AND WATER.				11
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP				1/2"	72"							RUN C.W. TO ITEM 11, COMBI OVEN				12
24	2	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2"	24"								24
32	1	WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM	1/2"	12"	10	1/2"	12"	FS	1 1/2"									32
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FNP2840-2-18R-48TL	1/2"	12"	20	1/2"	12"	FS	1 1/2"					TEE-OFF C.W. TO ITEM 38, DISPOSER				36
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD				1/2"		DIR	2"	10"				TEE-OFF C.W. FROM ITEM 36, WORKTABLE WITH SINKS				38
42	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S												CONDENSATE EVAPORATOR				42
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAV, HTD-SS/RAN CP72-GL						FS						(5 @ 1" WASTE) MANIFOLD DRAIN LINES				44
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS SSO-RCP-5/RAN SSS72/RAN INV72							1"					MANUAL DRAIN				46
48	1	POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM		12"	60		12"	FS						(2 @ 3/4" H. & C.W.) (3 @ 2" WASTE) MANIFOLD DRAIN LINES, PLUMB DRAINS PER LOCAL CODES				48
51	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM						FS	1"									51
52	1	UNIT COOLER (FREEZER)	OMNI	BEL0060BS6EE						FS	1"									52
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	CM44N-ADV2	1/2"	12"	126	1/2"	12"	FS	2"					140 DEGREE HOT WATER				61
63	1	HOSE REEL WITH SPRAY	FISHER	28661				30	1/2"	12"										63
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM	1/2"	12"	35	1/2"	12"							TEE-OFF C.W. TO ITEM 65, DISPOSER				64
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD				1/2"		DIR	2"	10"				TEE-OFF C.W. FROM ITEM 64, EXISTING SOILED DISHTABLE				65

CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY,
COMMISSARY AND LAUNDRY
DESIGN CONSULTING
INFO@CLEVENGERASSOC.COM

5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5100
FAX: (563) 582-5101
WWW.CLEVENGERASSOC.COM

BID DOCUMENTS 12-09-22

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

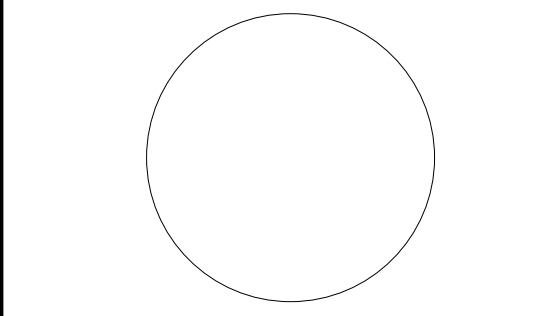
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEDIA/PEP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	12-09-22

PROJECT NUMBER Project Number
DATE OF ISSUE 12-09-22
DRAWN BY EB
CHECKED BY EN

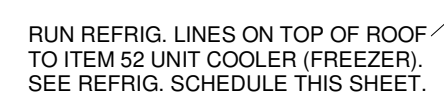
**PLUMBING ROUGH-INS
PLAN**

FS-3
BID DOCUMENTS

REVISIONS

PROJECT NUMBER	Project Number
DATE OF ISSUE	12-09-22
DRAWN BY	EB
CHECKED BY	EN

FS-5
BID DOCUMENTS



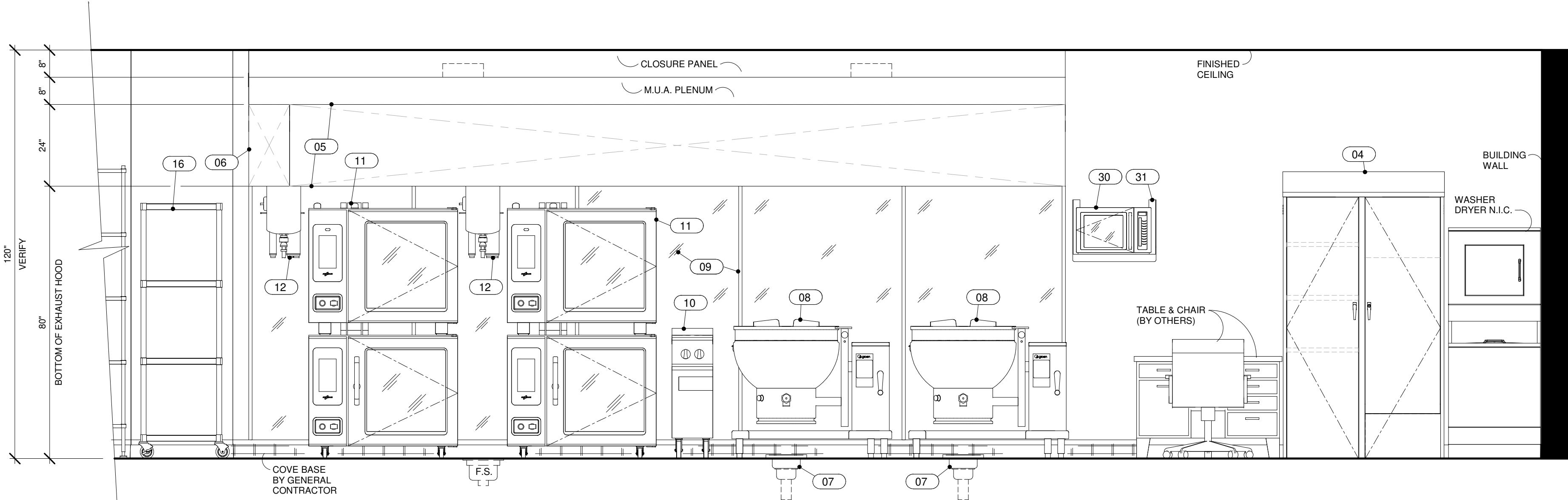
ALL CONDUIT RUNS INDICATED FOR REFRIGERATION AND DRINK SYSTEM LINES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL DIVISION. CONDUIT SHALL HAVE 24" (600MM) MINIMUM RADIUS BENDS.



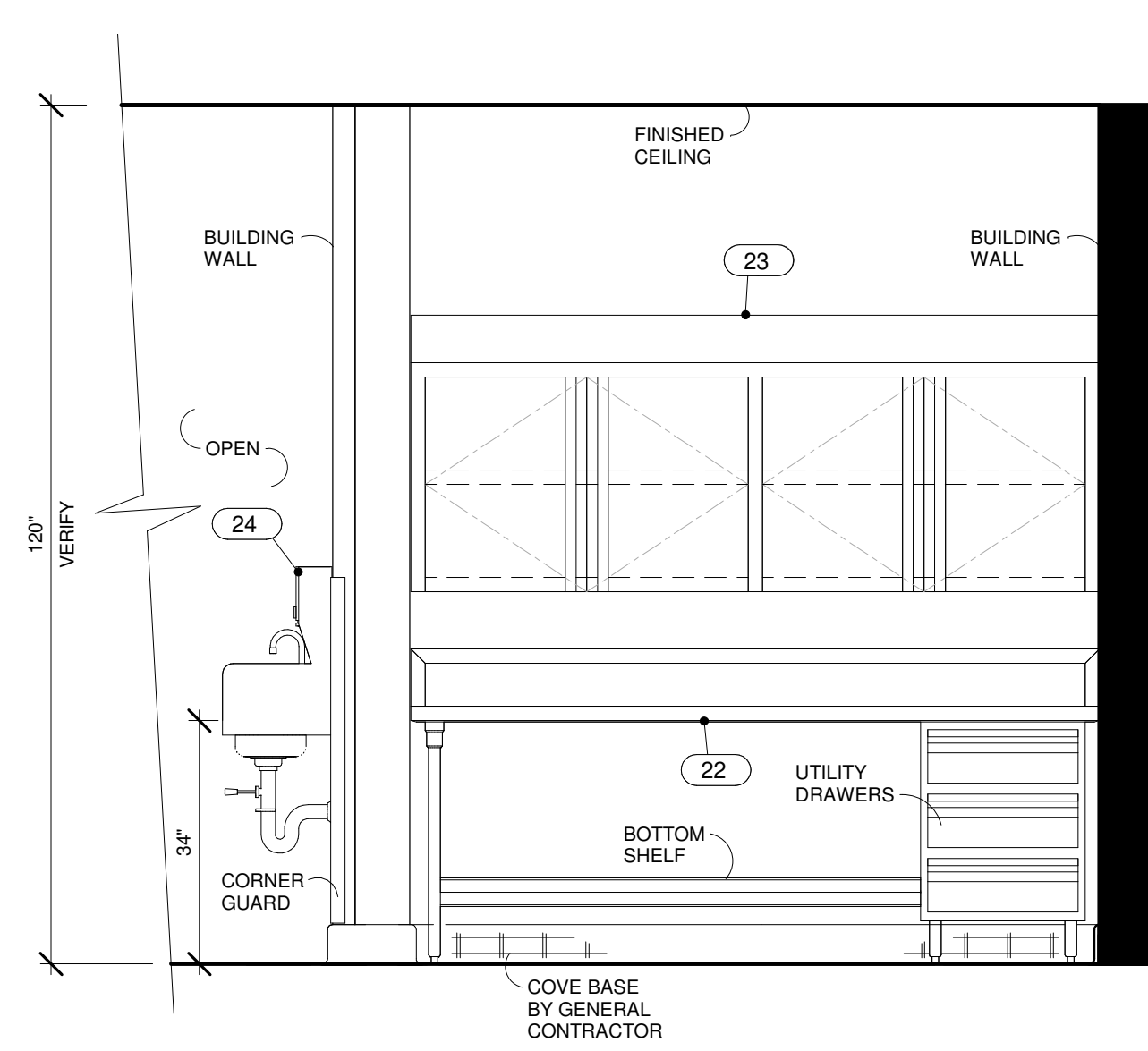
5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5109
SEATTLE • CALIFORNIA • ILLINOIS • IOWA
NEW YORK • PHILIPPINES
WWW.CLEVENGERASSOC.COM

THIS DRAWING IS INTENDED FOR INFORMATION PURPOSES ONLY FOR USE BY THE ARCHITECT AND ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE APPROVED KITCHEN EQUIPMENT CONTRACTOR ROUGH-IN DRAWINGS FOR CONSTRUCTION.

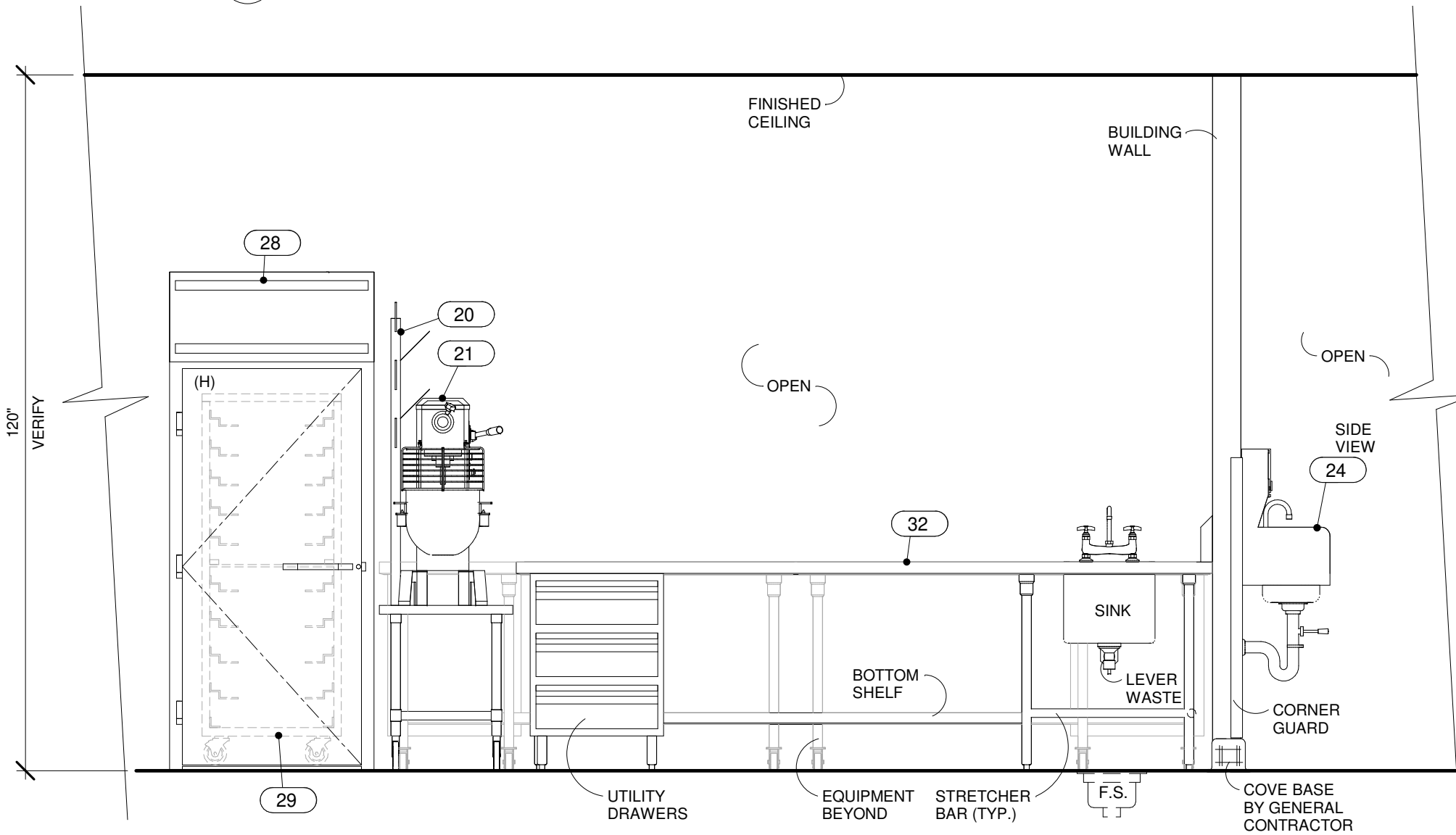
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



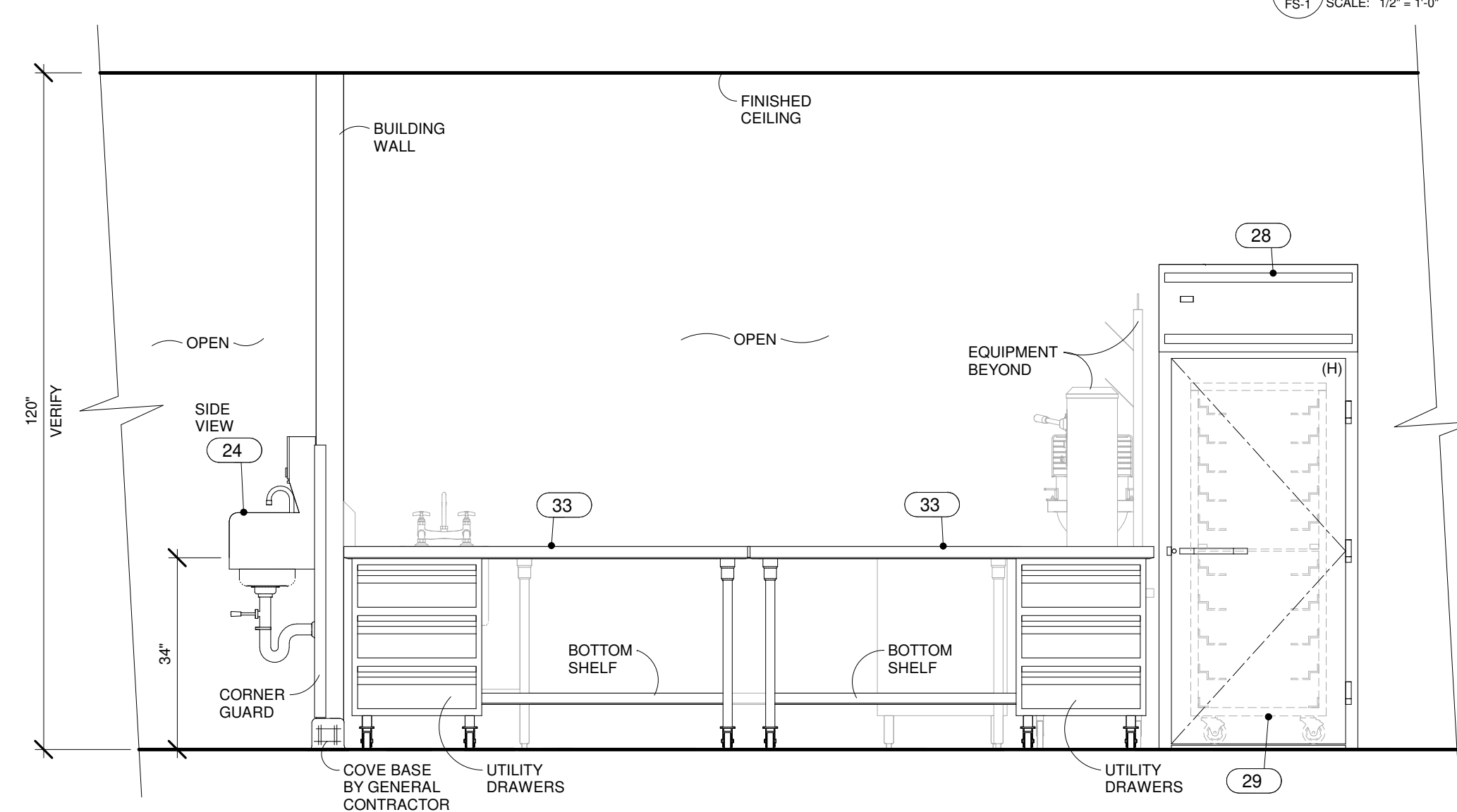
A ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



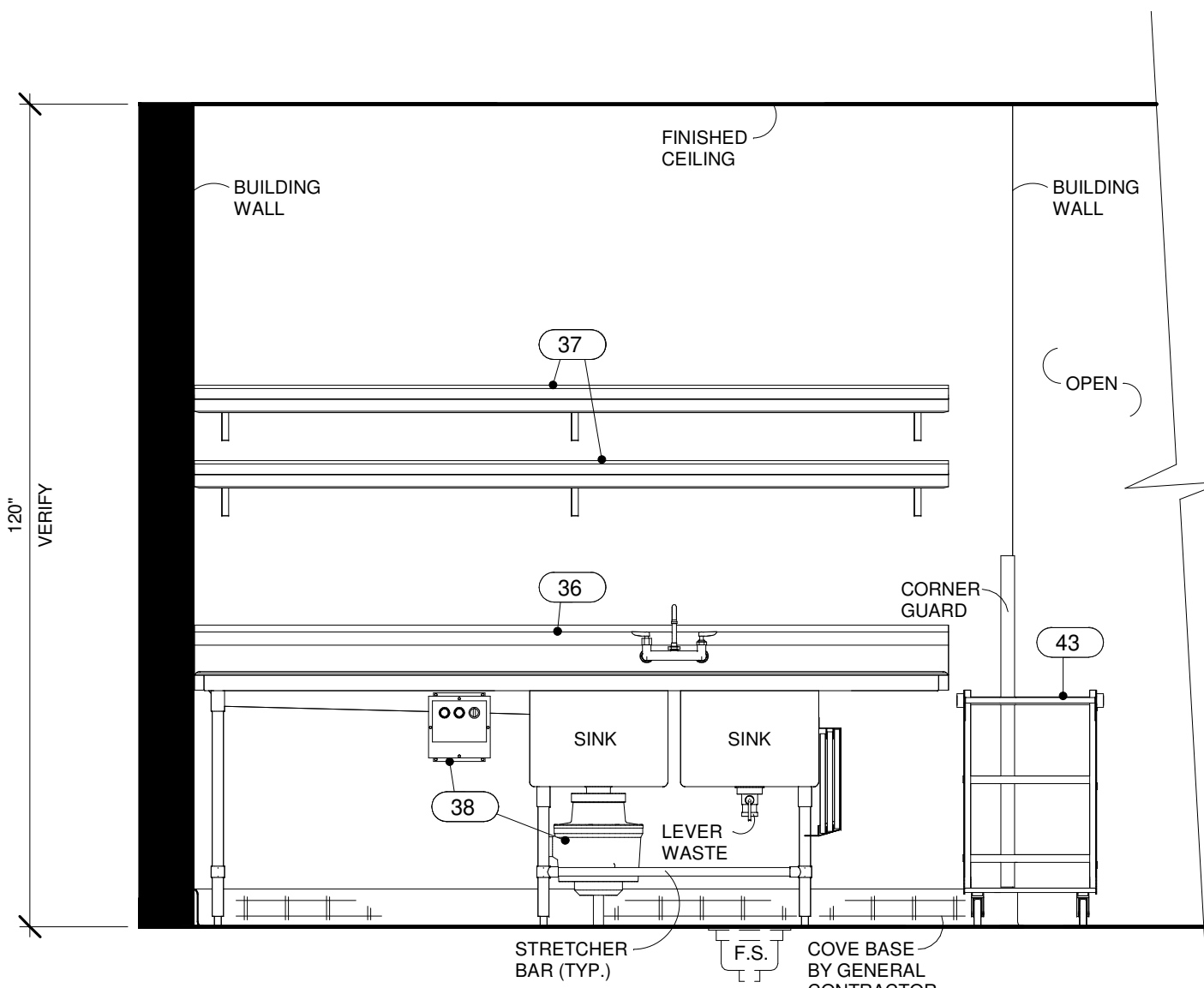
B ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



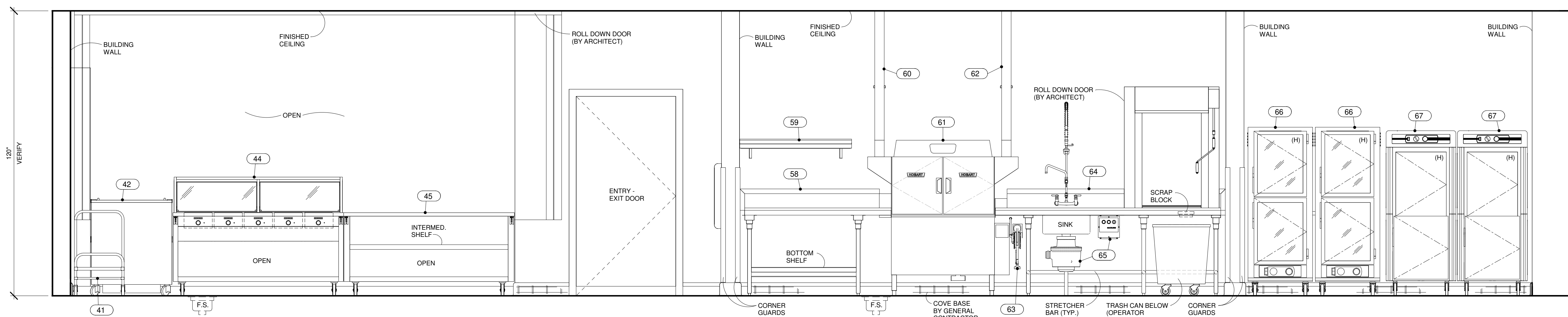
C ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



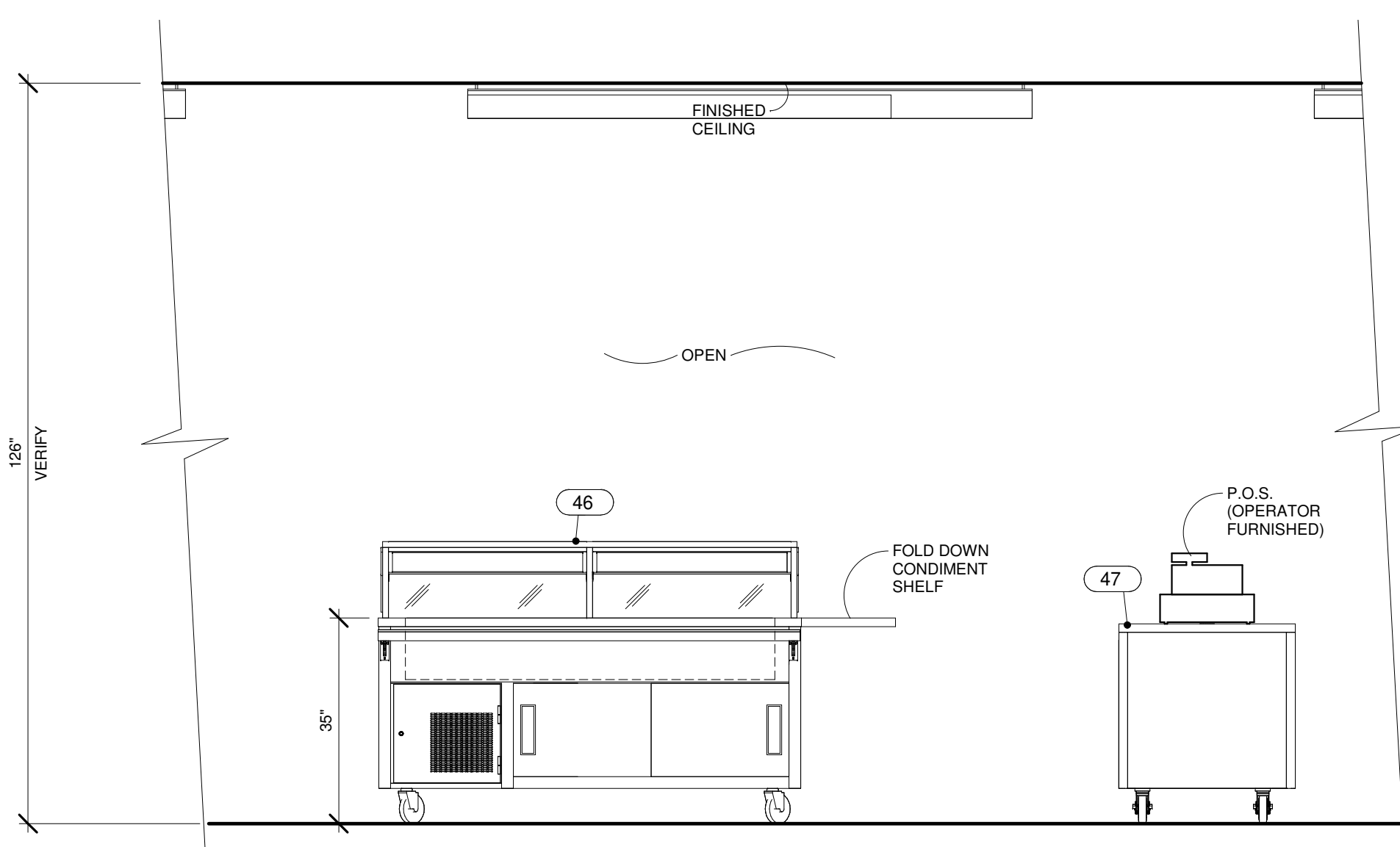
D ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



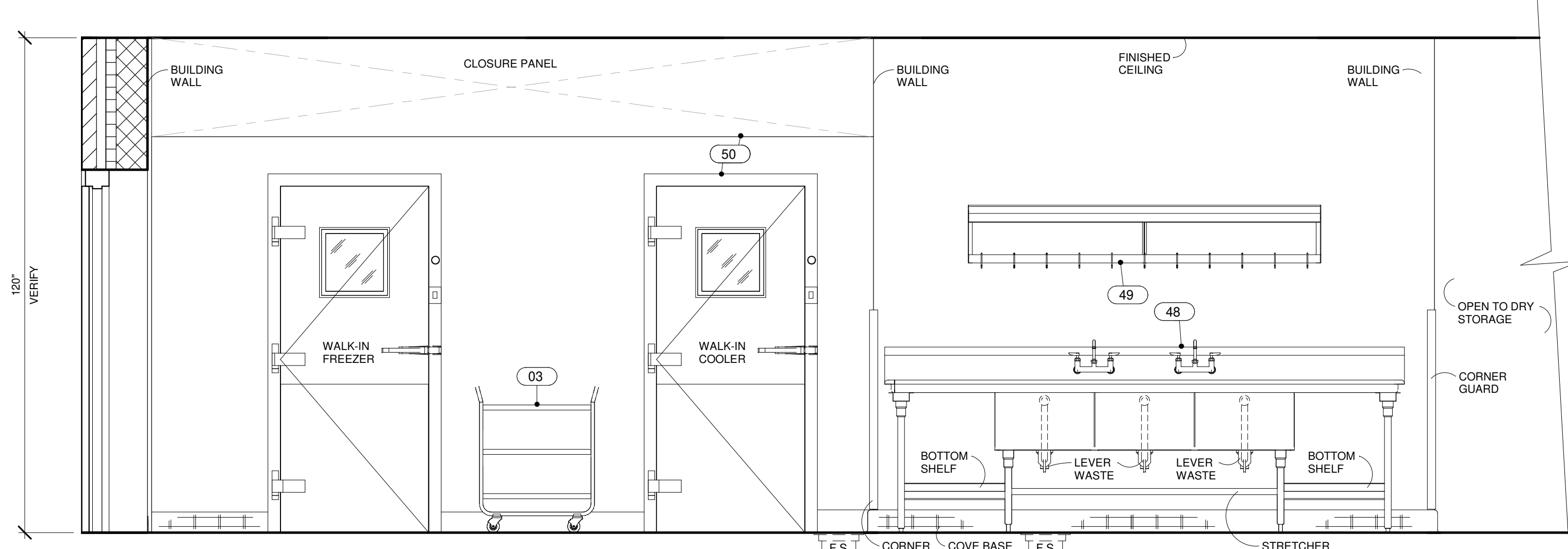
E ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



F ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



G ELEVATION
FS-1 SCALE: 1/2" = 1'-0"



H ELEVATION
FS-1 SCALE: 1/2" = 1'-0"

EQUIPMENT SCHEDULE					
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	
01	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAM-A17Z-TFC-075	
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAM-A10Z-TFC-075	
03	3	MOBILE UTILITY CART	LAKESIDE	222	
04	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR	
05	1	EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1)	HALTON	KVE	
06	1	FIRE SUPPRESSION SYSTEM	ANSUL		
07	2	FLOOR TROUGH AND GRATE	BSI	FTAS	
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A	
09	1	STAINLESS STEEL WALL FLASHING	CUSTOM FABRICATED	CUSTOM	
10	1	MOBILE 2 O/B RANGE W/ CABINET BASE	VULCAN	V2B12B	
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G	
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP	
13	1	SPARE NUMBER			
14	1	SPARE NUMBER			
15	1	SPARE NUMBER			
16	1	MOBILE POT AND PAN RACK	NEW AGE INDUSTRIAL	PM2448	
17	1	HIGH DENSITY STORAGE SHELVING	METRO	HIGH DENSITY QWIKTRAK	
18	3	DUNNAGE RACK	METRO	HP2236PD/HP2260D	
19	1	MOBILE CAN RACK	NEW AGE INDUSTRIAL	1250CK	
20	1	MOBILE MIXER STAND	PIPER	MX-29-TSS (MX-52-R)	
21	1	MIXER (20 QT.)	UNIVEX	SRM20	
22	1	WORKTABLE WITH DRAWERS	CUSTOM FABRICATED	CUSTOM	
23	1	WALL CABINET	CUSTOM FABRICATED	CUSTOM	
24	2	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-FS-67	
25	1	SPARE NUMBER			
26	1	SPARE NUMBER			
27	1	SPARE NUMBER			
28	1	ROLL-IN HEATED CABINET	CONTINENTAL	DL1W1-SS-RT	
29	3	MOBILE TRAY RACK	PIPER PRODUCTS	RE18U	
30	1	MICROWAVE OVEN	AMANA	RCS10TS	
31	1	MICROWAVE SHELF	CUSTOM FABRICATED	CUSTOM	
32	1	WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM	
33	2	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM	
34	1	SPARE NUMBER			
35	1	SPARE NUMBER			
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FNP2840-2-18R-48TL	
37	2	WALL SHELF	CUSTOM FABRICATED	CUSTOM	
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD	
39	1	SPARE NUMBER			
40	1	SPARE NUMBER			
41	1	MOBILE DISH & TRAY CART	PIPER PRODUCTS	721	
42	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S	
43	2	MOBILE BUSSING CART	LAKESIDE MANUFACTURING	S22	
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAN-HTD-5S/RAN-CP72-GL	
45	1	MOBILE SERVING COUNTER	RANDELL	RAN-ST-6S	
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS-SO-RCP-S/RAN-SGS72/RAN-INV72	
47	1	MOBILE P.O.S. COUNTER (BY OWNER)	CUSTOM FABRICATED	CUSTOM	
48	1	POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM	
49	1	UTENSIL RACK WITH SHELF (WALL MOUNTED)	CUSTOM FABRICATED	CUSTOM	
50	1	WALK-IN COOLER / FREEZER ASSEMBLY	AMERICAN PANEL		
51	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM	
52	1	UNIT COOLER (FREEZER)	OMNI	BEL0060BS6EE	
53	8	DUNNAGE RACK	METRO	HP2236PD	
54	6	MOBILE COOLER/FREEZER SHELVING	METRO	METROMAX Q	
55	1	SPARE NUMBER			
56	1	SPARE NUMBER			
57	1	SPARE NUMBER			
58	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM	
59	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM	
60	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM	
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	C144n-ADV2	
62	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM	
63	1	HOSE REEL WITH SPRAY	FISHER	29661	
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM	
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD	
66	2	MOBILE HOT HOLDING CABINET/PROOFER (BY OWNER)	METRO	C539-FS	
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	METRO	C549-ASDS-L	

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulta Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER
RTM Engineering
5137 Ulta Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	12-09-22

PROJECT NUMBER
DATE OF ISSUE
DRAWN BY
CHECKED BY

Project Number
12-09-22
EB
EN

ELEVATIONS AND
DETAILS

FS-6
BID DOCUMENTS

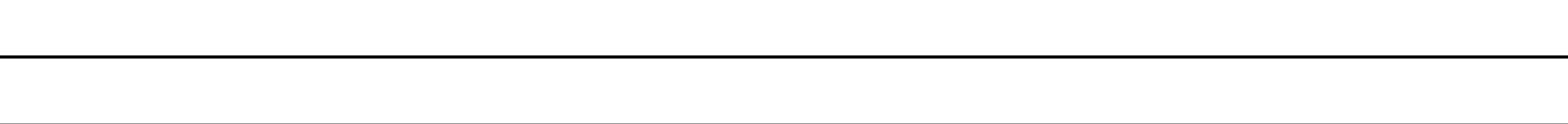
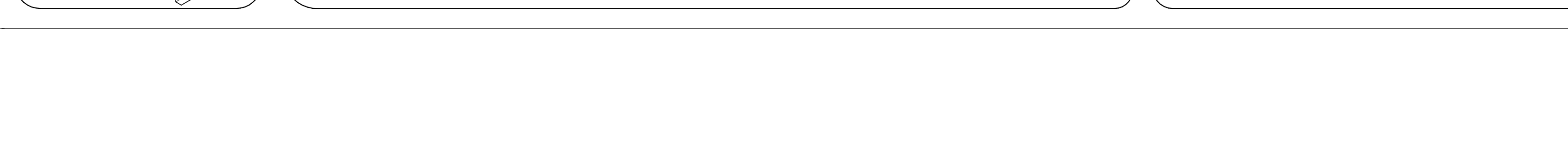
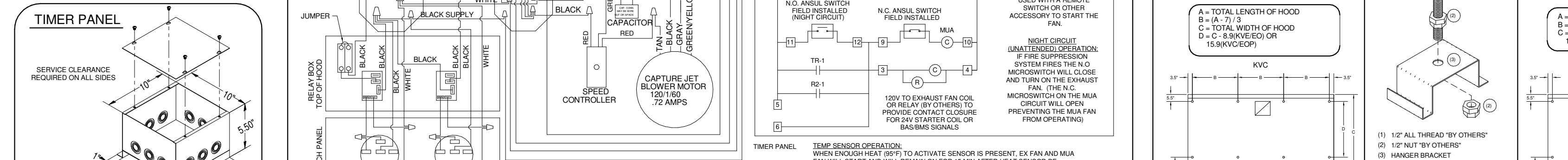
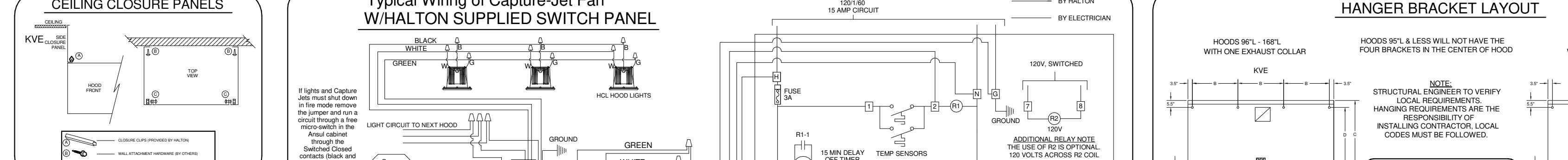
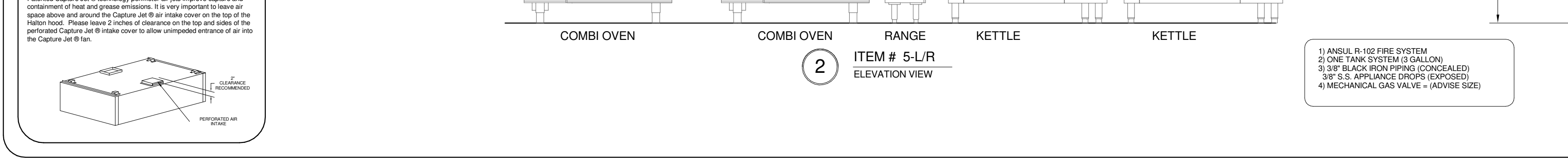
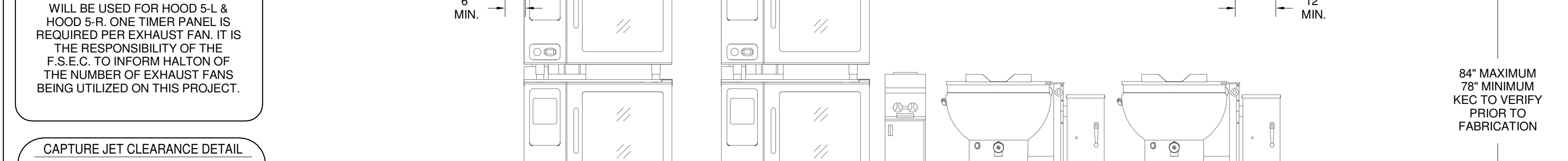
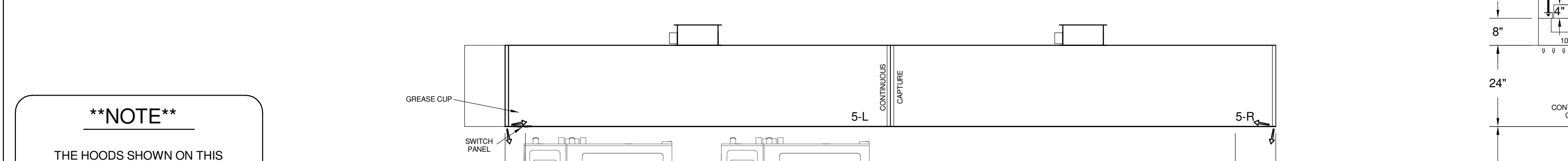
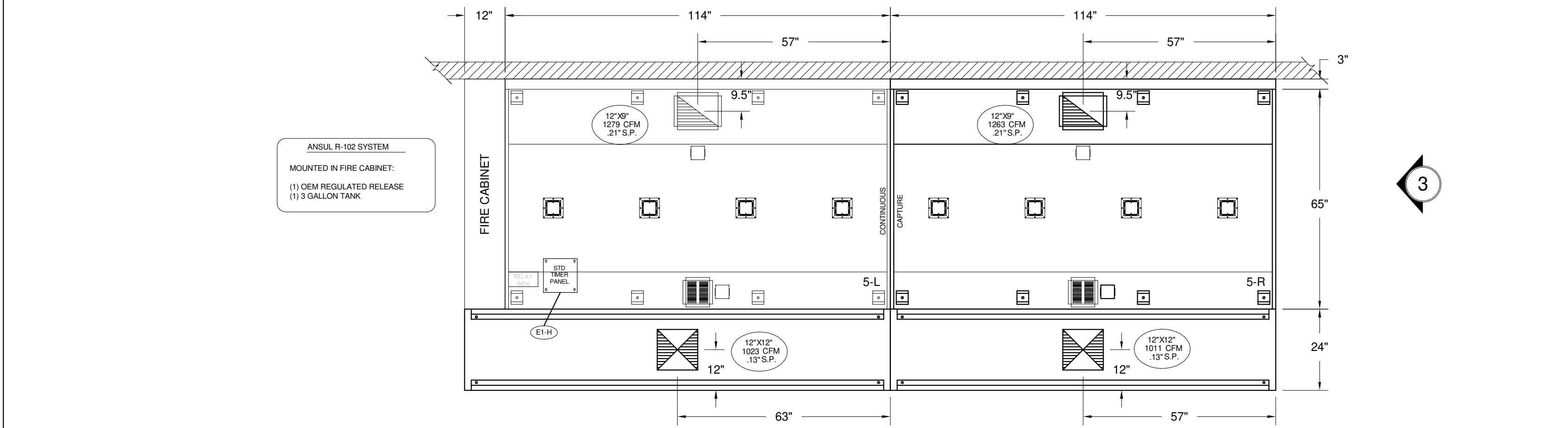
CLEVENGER ASSOCIATES
FOODSERVICE, BAKERY,
COMMISSARY AND LAUNDRY
DESIGN CONSULTING
INFO@CLEVENGERASSOC.COM

5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5109
FAX: (563) 582-5100
WWW.CLEVENGERASSOC.COM

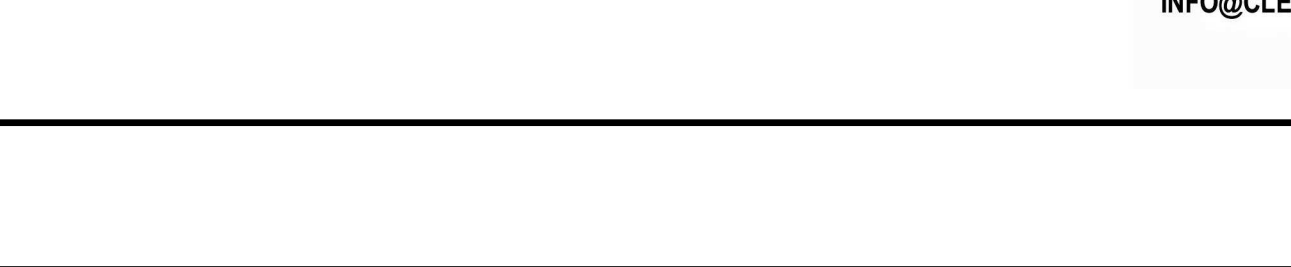
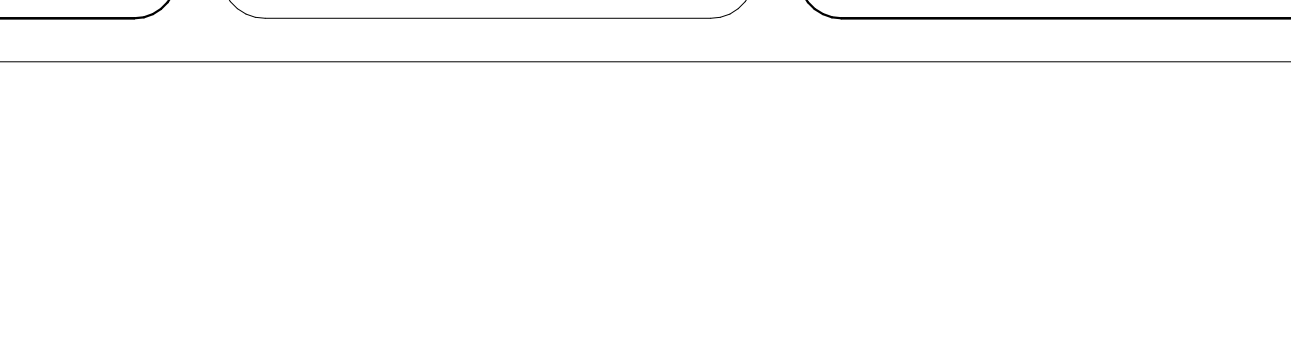
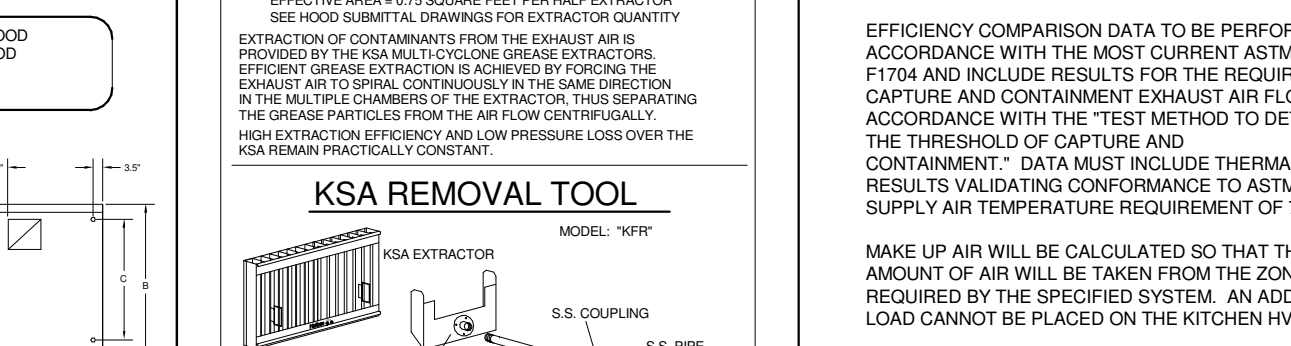
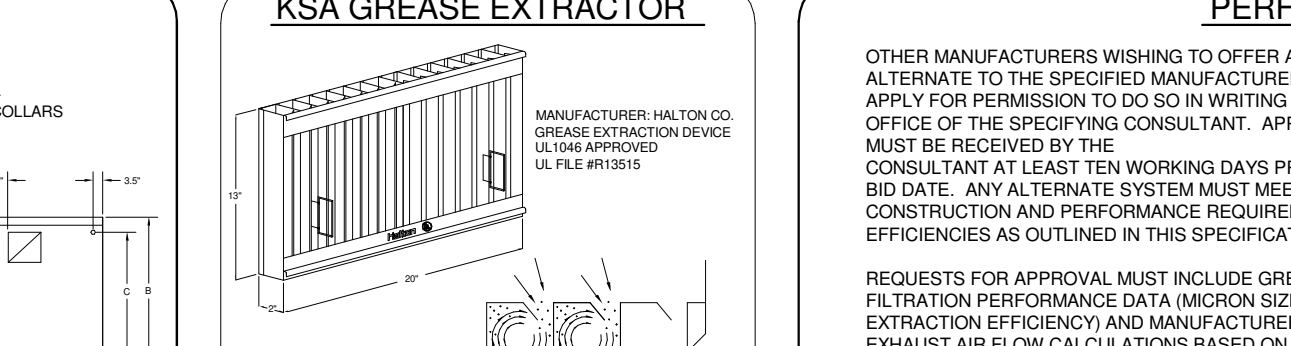
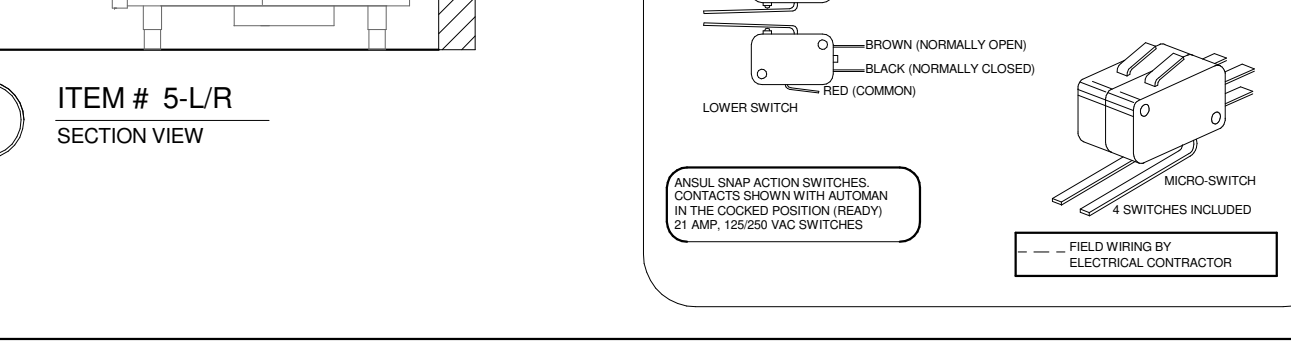
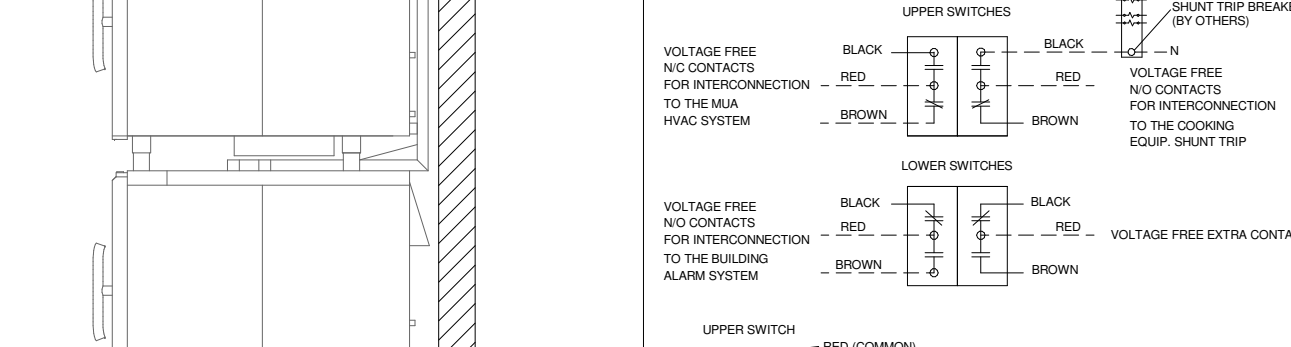
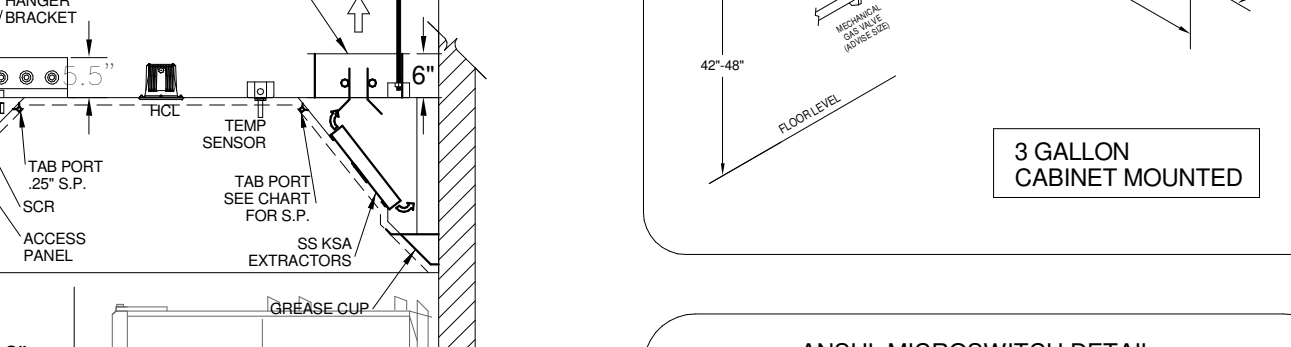
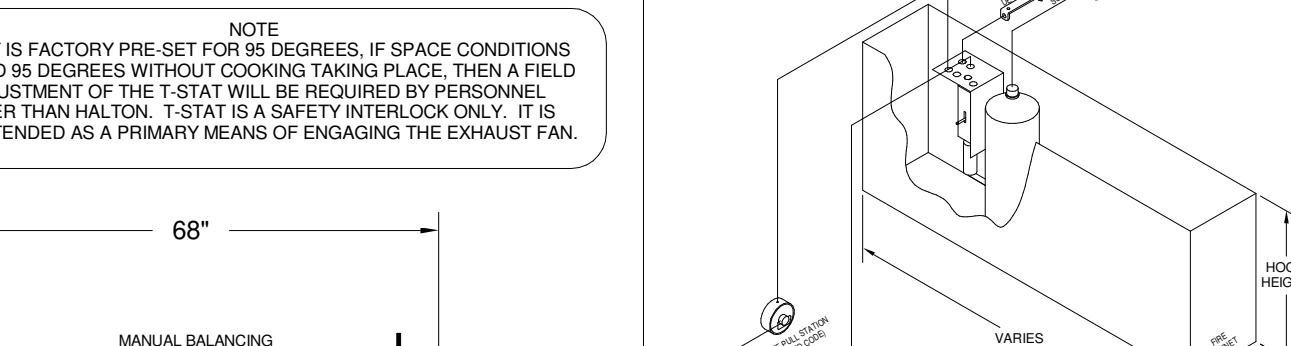
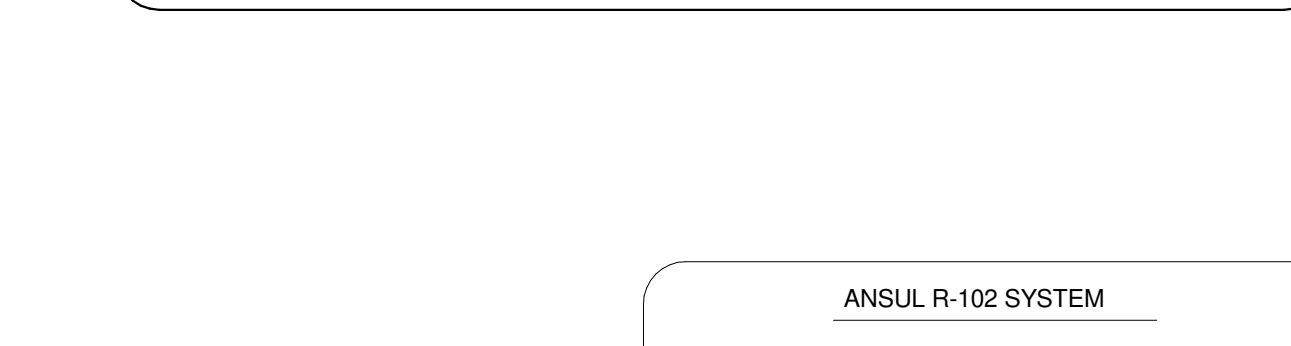
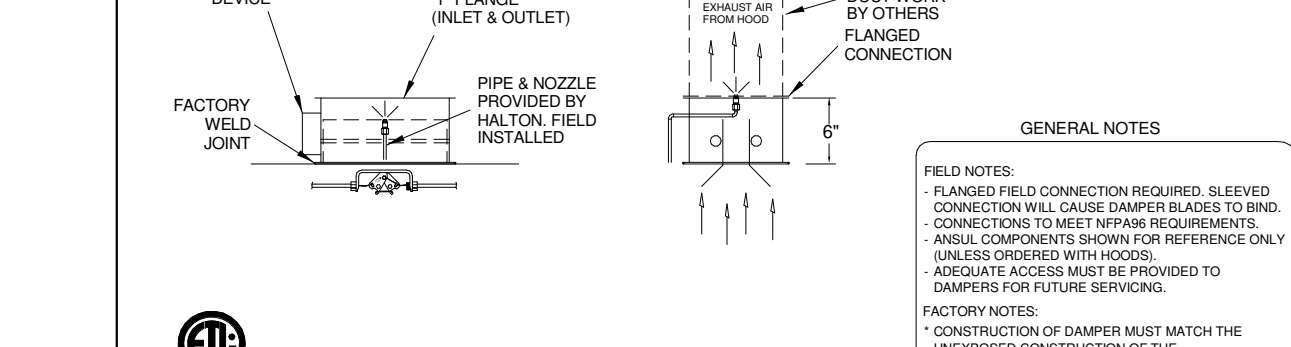
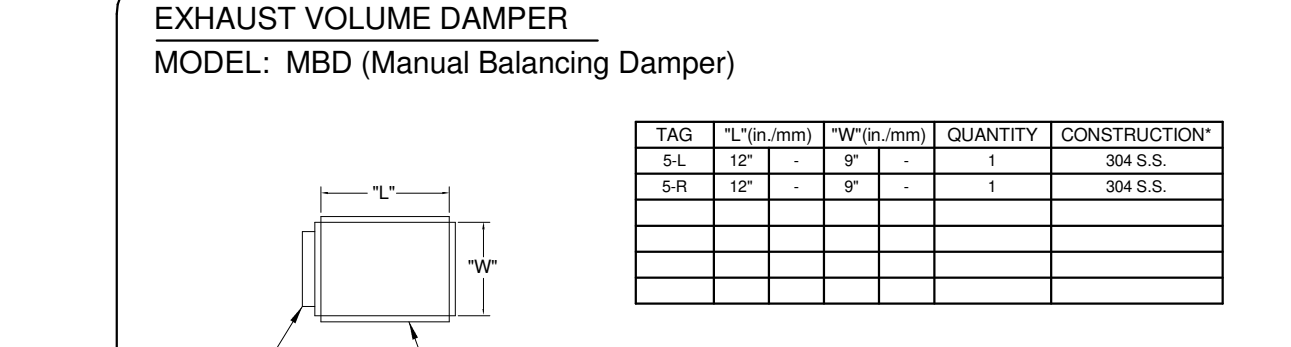
BID DOCUMENTS 12-09-22

THIS DRAWING IS INTENDED FOR INFORMATION
PURPOSES ONLY FOR USE BY THE ARCHITECT AND
ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE
APPROVED KITCHEN EQUIPMENT CONTRACTOR
ROUGH-IN DRAWINGS FOR CONSTRUCTION.

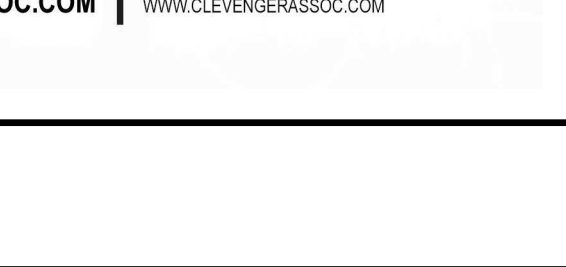
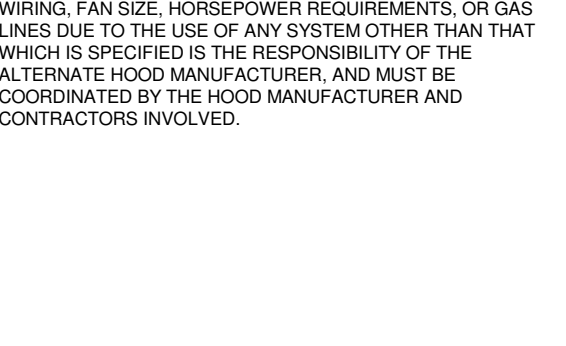
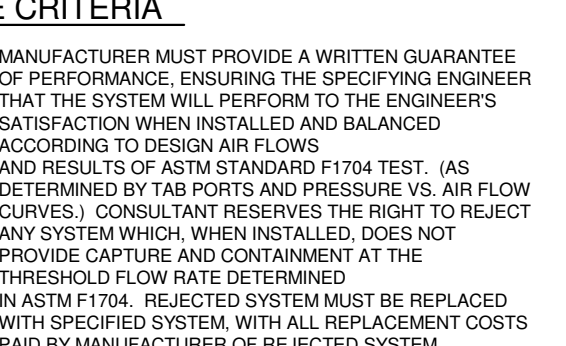
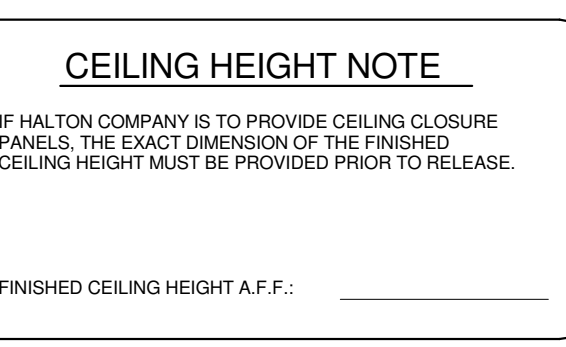
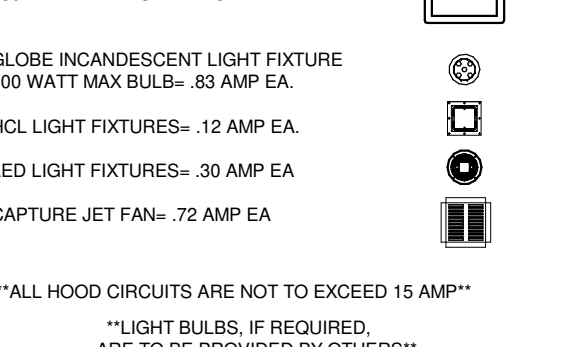
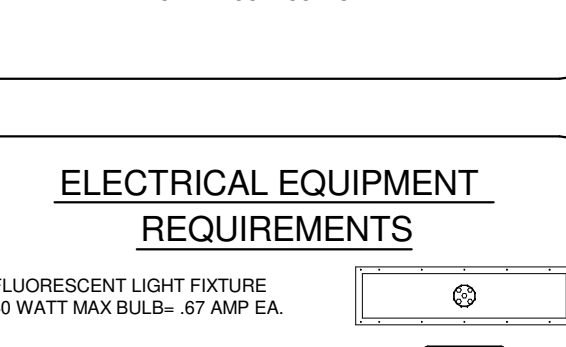
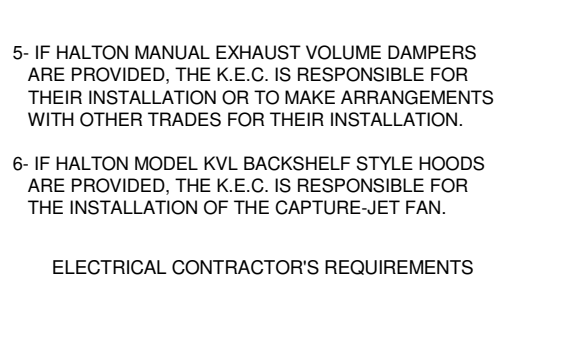
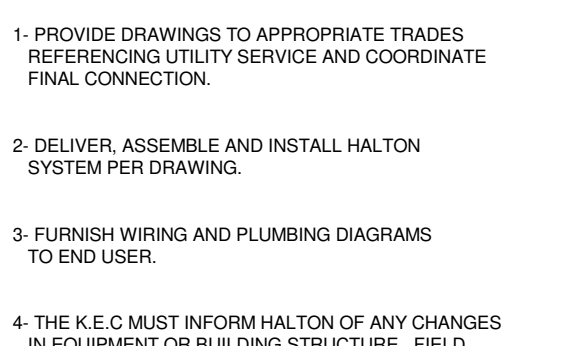
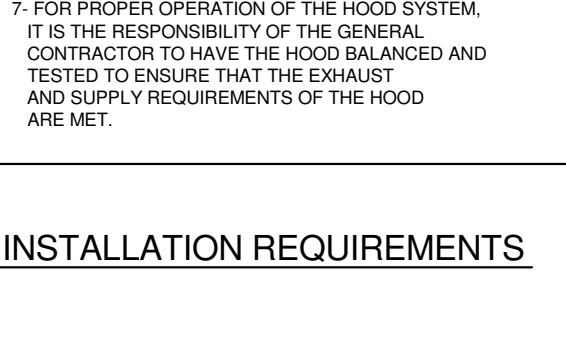
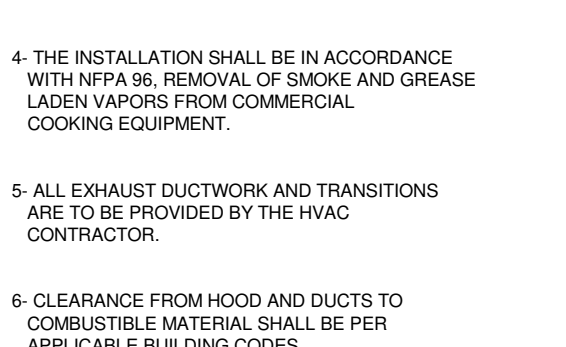
HOOD INFORMATION TABLE																					
HOOD NUMBER	HOOD MODEL	EXHAUST AIR FLOW REQUIREMENTS						GREASE EXTRACTOR				HOOD CONSTRUCTION	HOOD WEIGHT (LBS)	SUPPLY AIR REQUIREMENTS				PLENUM WEIGHT (LBS)			
		EXHAUST CFM	TOTAL HOOD STATIC PRESSURE	T.A.B. PORT STATIC PRESSURE	EXHAUST COLLAR			QTY.	SIZE		TYPE			SUPPLY CFM	SUPPLY STATIC PRESSURE	SUPPLY COLLAR					
					QTY.	LENGTH	WIDTH		L	H						QTY.	LENGTH		WIDTH		
5-L	KVE	1279	0.21"	0.11"	1	12"	9"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	871	1023	0.13"	1	12"	12"	190		
5-R	KVE	1263	0.21"	0.10"	1	12"	9"	5	20"	13"	KSA	ALL 18 GA. 304 S.S.	871	1011	0.13"	1	12"	12"	190		
TOTAL EXH. CFM =		2542														TOTAL SUPPLY CFM =				2034	



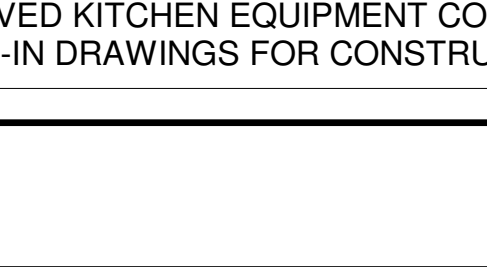
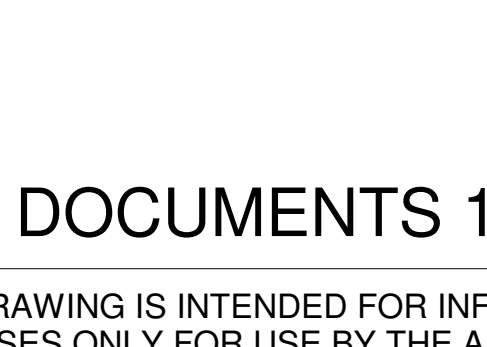
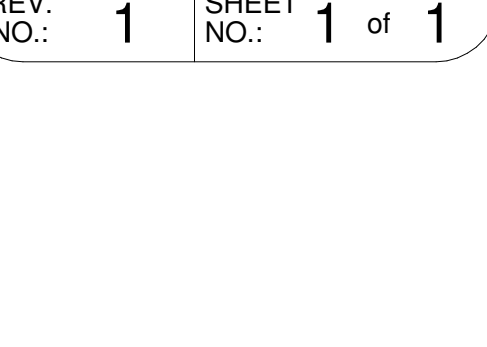
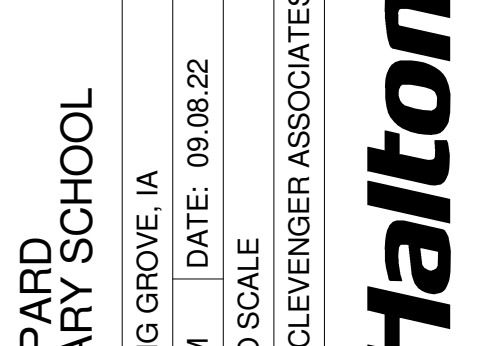
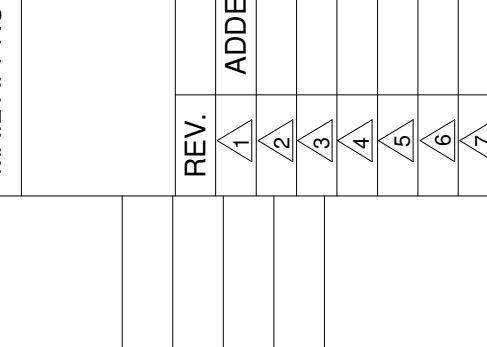
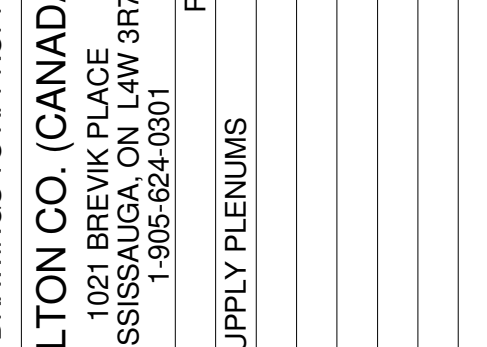
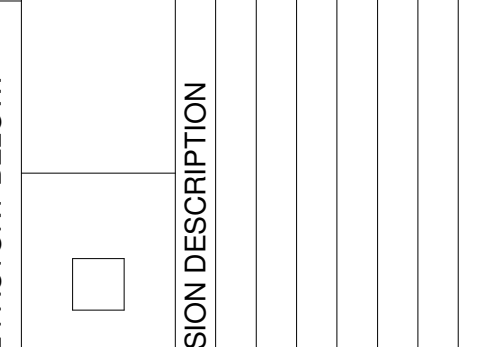
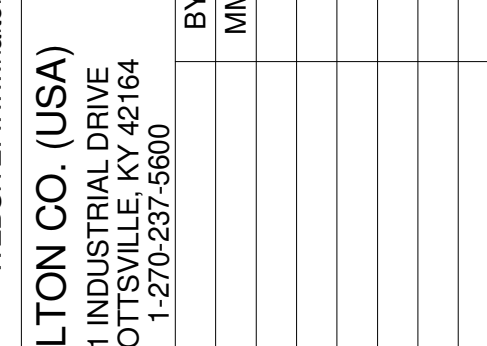
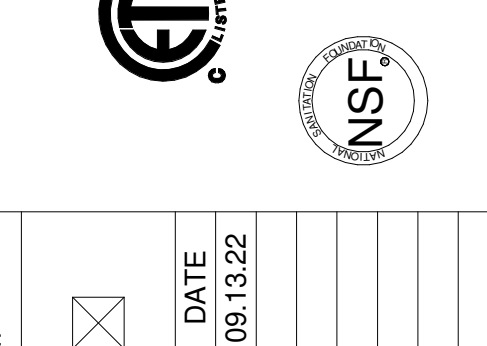
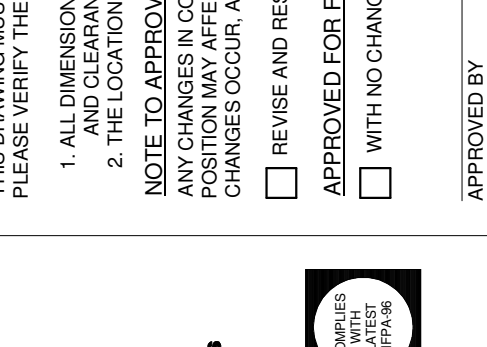
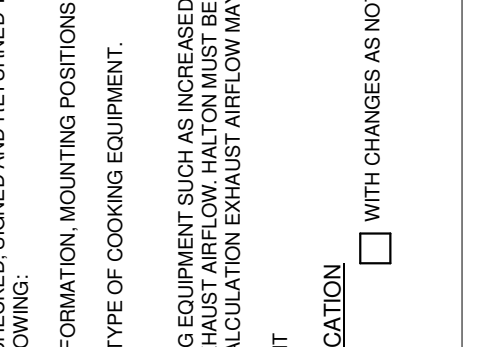
ELECTRICAL CONNECTION SCHEDULE			
CONNECTION #	CONNECTION DESCRIPTION	FROM	TO
E1-H	120V, 15AMP - HOOD LIGHT POWER - 3 WIRES	BUILDING SOURCE	HOOD 5-L
E2-H	FIELD CONNECTION FOR HOOD LIGHTS	HOOD 5-L	HOOD 5-R
E3-H	FIELD CONNECTION FOR TEMP SENSORS	HOOD 5-L	HOOD 5-R



GENERAL SPECIFICATIONS			
1.	HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.		
2.	HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL 10131420RPH1-001		
3.	ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.		
4.	THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.		
5.	ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.		
6.	CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.		
7.	FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.		



GENERAL SPECIFICATIONS			
1.	HOOD CONSTRUCTION AND DESIGN MEETS NFPA 96 AND UL 710 STANDARD.		
2.	HOOD IS NSF AND ETL LISTED UNDER THE FOLLOWING FILE NUMBER: ETL 10131420RPH1-001		
3.	ALL INSTALLATION WORK IS TO BE PERFORMED BY QUALIFIED PERSONS AND IN ACCORDANCE WITH STATE AND LOCAL BUILDING CODE REQUIREMENTS.		
4.	THE INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96, REMOVAL OF SMOKE AND GREASE LADEN VAPORS FROM COMMERCIAL COOKING EQUIPMENT.		
5.	ALL EXHAUST DUCTWORK AND TRANSITIONS ARE TO BE PROVIDED BY THE HVAC CONTRACTOR.		
6.	CLEARANCE FROM HOOD AND DUCTS TO COMBUSTIBLE MATERIAL SHALL BE PER APPLICABLE BUILDING CODES.		
7.	FOR PROPER OPERATION OF THE HOOD SYSTEM, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO HAVE THE HOOD BALANCED AND TESTED TO ENSURE THAT THE EXHAUST AND SUPPLY REQUIREMENTS OF THE HOOD ARE MET.		



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

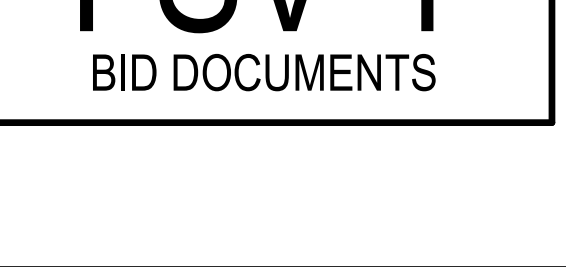
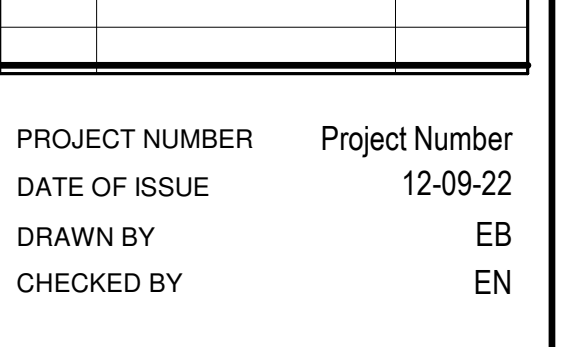
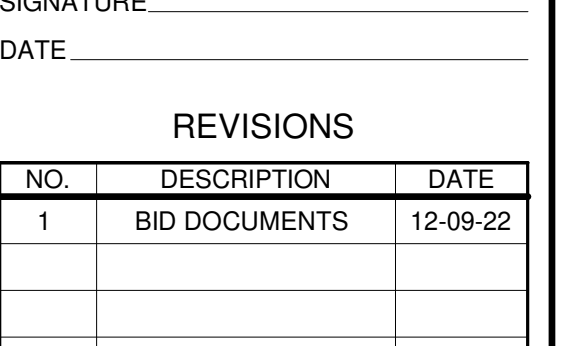
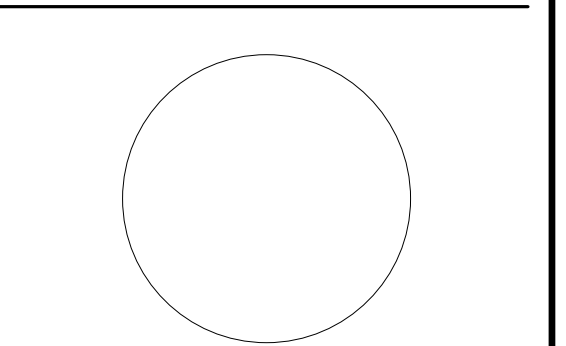
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulca Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ulca Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com



NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com

CIVIL ENGINEER

RTM Engineering

5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.imegcorp.com

MEP/FP ENGINEER

RTM Engineering

5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

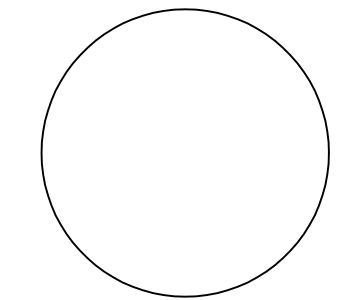
www.rtmec.com

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE
01	BID DOCUMENTS	12-09-22

PROJECT NUMBER 218130.00
DATE OF ISSUE 12-09-22
DRAWN BY EB
CHECKED BY EN

WALK-IN ENGINEERING

FSW-1
BID DOCUMENTS

~SPECIFICATIONS~

BOX HEIGHT: FREEZER - 8'-6" OVERALL (8'-2" INTERIOR)
COOLER - 8'-6" OVERALL (8'-2" INTERIOR)

CONSTRUCTION: FOAMED IN PLACE
NSF LISTED, STANDARD NO. 7

INSULATION: 4" URETHANE, FINISHED PANEL
UL CLASSIFIED FLAME SPREAD 20
CORE SMOKE DEVELOPED 250

INSTALLATION: INDOOR

FLOOR: FREEZER - FLOORLESS (VINYL SCREED PROVIDED)
INSULATED SLAB (SLAB BY OTHERS)
COOLER - FLOORLESS (VINYL SCREED PROVIDED)

DOOR HARDWARE & ACCESSORIES: SMOOTH POLISHED DOOR HARDWARE
(EACH DOOR) POWER TO BE STUBBED OUT CEILING PANEL
DRY CONTACT LEADS TO BE STUBBED OUT CEILING PANEL IN A SEPARATE STUB OUT
KASON #10944-4 DEADBOLT LOCK

1/8" STAINLESS STEEL THRESHOLD COVER PLATE
FRAME HEATER WIRE
HYDRAULIC DOOR CLOSER
IC+ WALK-IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING:

INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY
TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM
F OR C TEMPERATURE SELECTION
INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)
DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED)
HACCP PREVIEW VIA ONBOARD LCD SCREEN
HACCP DOWNLOAD VIA USB
WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED)
BATTERY BACKUP
TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
(FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE
POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT)
AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL
ADAPTIVE SETTINGS
MOMENTARY BACK-TO-BACK LIGHT SWITCH W/PILOT
25" AIR TEMPERATURE PROBE
DOOR SWITCH TO ENABLE DOOR AJAR ALARM, DOOR AJAR NOTIFICATION VIA EMAIL &/OR
EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS
PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED,
& NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES

2" FLUSH MOUNT DIAL THERMOMETER W/25" PROBE
KASON SCREW-IN VAPOR PROOF LIGHT FIXTURE
W/8.5 WATT SYLVANIA LED BULB & GLOBE

STRIP CURTAIN

2 - KASON #1346 ADJUSTABLE SPRING LOADED HINGES
HEATED VISION WINDOW (14" x 14")
1/8" DIAMOND ALUMINUM TREAD PLATE KICKPLATES @ 36" HIGH 1/S & O/S DOOR & FRAME
KASON #1827 PRESSURE RELIEF VENT (FREEZER DOOR ONLY)
EVAPORATOR FAN CUT-OFF SWITCH
SLAM BRACES

2 - PCS. TRIM ANGLE - 20 GA STAINLESS STEEL, #3 FINISH
CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN)
20 GA STAINLESS STEEL, #3 FINISH
2 - 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH
1/8" DIAMOND ALUMINUM TREAD PLATE WAINSCOT @ 36" HIGH (EXPOSED EXTERIOR ONLY)
2 - KASON #1901 MOTION SENSORS W/LIGHT ACTIVATOR & SHUT OFF
2 - BAKELITE LABELS (BLACK)
"FREEZER" & "COOLER"

VISQUEEN PLASTIC SHEETING
2 LAYERS OF 2" THICK URETHANE SLAB INSULATION
2 - STAINLESS STEEL ESCUTCHEONS
2 - STAINLESS STEEL THERMOMETER PROBE STAND-OFF BRACKETS
2 - DOOR STOPS
2" X 8" 16 GA STAINLESS STEEL BEVELED BUMPER RAIL @ 41" A.F.F. (PER PLAN)

METAL FINISHES: INTERIOR & EXTERIOR DOOR & FRAME - 18 GA STAINLESS STEEL, #3 FINISH
INTERIOR WALLS - .040 STUCCO ALUMINUM
INTERIOR CEILING - SMOOTH WHITE .040 ALUMINUM (U.S.D.A.)
EXPOSED EXTERIOR - 20 GA STAINLESS STEEL, #3 FINISH
UNEXPOSED EXTERIOR - 26 GA STUCCO ACRYLUME
EXTERIOR CEILING - 26 GA STUCCO ACRYLUME

ACCESSORIES:
(SHIPPED LOOSE)

VERIFY HEIGHT

VERIFY LENGTH

B'WALL
TO
WALK-IN

REFRIGERATION: U.L. LISTED, AIR COOLED, OUTDOORS
FREEZER CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC - SCROLL
1.75 HP MODEL NO. FFAL-A17Z-TFC-075 (R-448A)
EVAPORATOR: 1 - MODEL NO. BEL0065BS6EE W/E.C. MOTORS & I.R.C.
COOLER CONDENSING UNIT: 1 - STD. PRE-ASSEMBLED REMOTE - HERMETIC - SCROLL
1.00 HP MODEL NO. FFAM-A10Z-TFC-075 (R-448A)
EVAPORATOR: 1 - MODEL NO. BEL0060BS6AM W/E.C. MOTORS & I.R.C.

REFRIGERATION ACCESSORIES: 2 - WINTERIZATION CONTROLS/LASA
2 - COMPRESSOR COVERS
2 - COMPRESSOR MOUNTING STANDS

NOTE: THE LARGEST DOOR PANEL ON THIS JOB IS 57.5" x 98".
NOTE: THE LARGEST ROOF PANEL ON THIS JOB IS 46" x 146".
CUSTOMER IS TO VERIFY THAT THIS PANEL SIZE
WILL NOT CONFLICT WITH ANY JOB SITE RESTRICTIONS.

NOTE: CUSTOMER IS TO VERIFY ALL DIMENSIONS,
SECTIONS, DETAILS AND SPECIFICATIONS



ELECTRICAL DATA			
● = POINT OF ELECTRICAL CONNECTIONS.			
FREEZER			
CONDENSING UNIT:	208-230V/60/3Ø	9.7/12.1/15.0 (RLA/MCA/MOP)	
EVAPORATOR:	208-230v/60/1Ø	1.5/9.5 AMPS	
COOLER			
CONDENSING UNIT:	208-230V/60/3Ø	5.2/7.6/15.0 (RLA/MCA/MOP)	
EVAPORATOR:	208-230v/60/1Ø	0.6 AMPS	
WALK-IN DOORS:	115v/1Ø	350w*	

*NOTE: ADD WATTAGE FOR EACH ADDITIONAL LIGHT FIXTURE IN ACCESSORIES.

- ☐ APPROVED
☐ APPROVED AS NOTED
☐ REVISE & RESUBMIT

SIGNATURE _____
PRINT NAME _____
DATE _____

A	10/13/22	REVISED FLOORING TO VINYL SCREED	RB	WQ
REV.	DATE	DESCRIPTION	REV. BY	CHK'D BY
<div> AMERICAN PANEL CORPORATION 5800 S.E. 78th St. Ocala, Florida 34472 Ph. (352) 245-7055 Fax (352) 245-0726</div>				
CUSTOMER: CLEVINGER ASSOCIATES				
PROJECT: ALAN SHEPARD ELEMENTARY SCHOOL - LONG GROVE, IA				
DATE: 9/14/22	DRAWN BY: SH/SE	P.O.#:		
SCALE: 5/16"=1'-0"	PROPOSAL#: PD203707	JOB#:	SHEET 1 of 3	

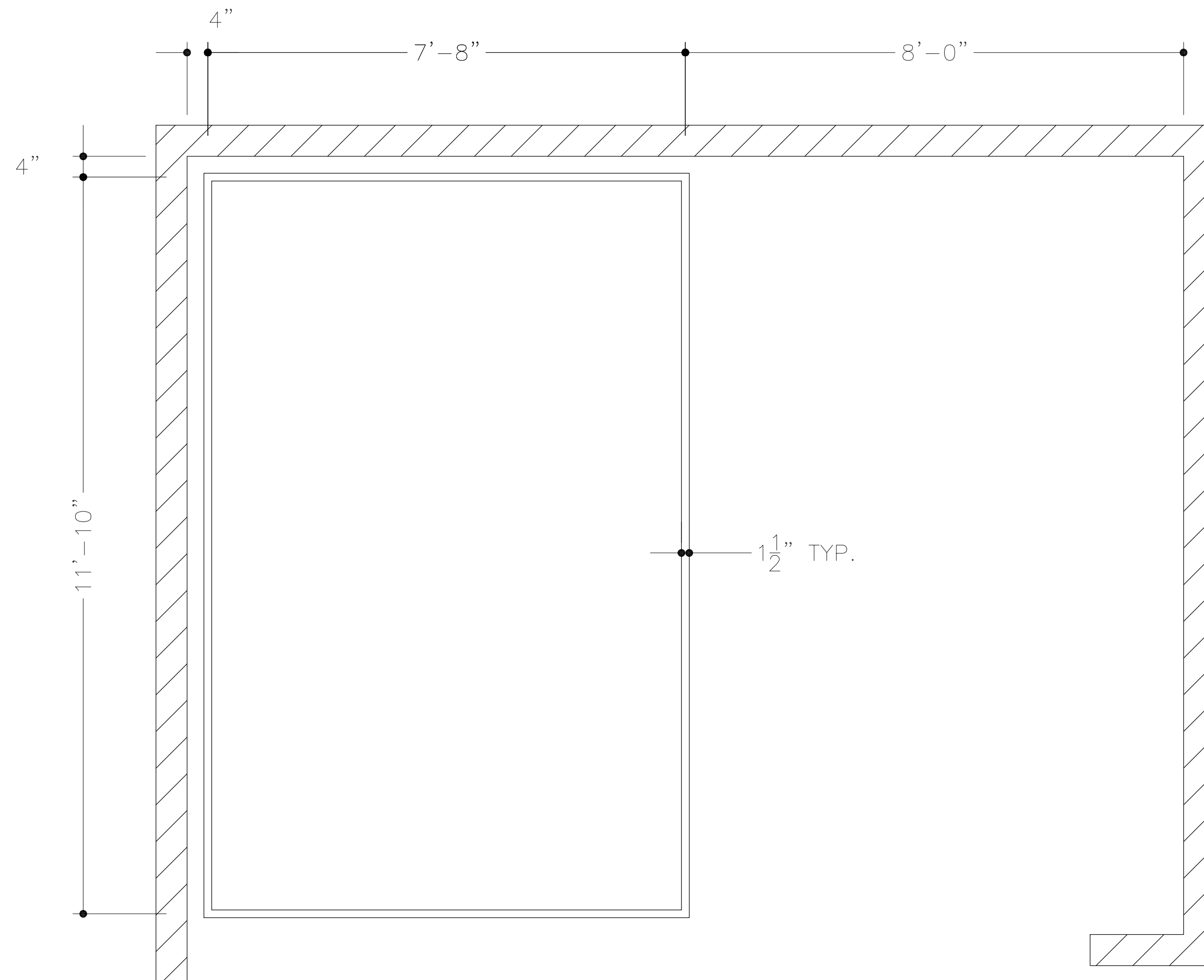
CLEVINGER ASSOCIATES

FOODSERVICE, BAKERY,
COMMISERY AND LAUNDRY
DESIGN CONSULTING
INFO@CLEVINGERASSOC.COM

5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5109
FAX: (563) 582-5109
WWW.CLEVINGERASSOC.COM

BID DOCUMENTS 12-09-22

THIS DRAWING IS INTENDED FOR INFORMATION
PURPOSES ONLY FOR USE BY THE ARCHITECT AND
ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE
APPROVED KITCHEN EQUIPMENT CONTRACTOR
ROUGH-IN DRAWINGS FOR CONSTRUCTION.





NORTH SCOTT
SCHOOL
DISTRICT

ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER

RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER

RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE		
DATE		
REVISIONS		
NO.	DESCRIPTION	DATE
1	BID DOCUMENTS	12-09-22

PROJECT NUMBER Project Number
DATE OF ISSUE 12-09-22
DRAWN BY EB
CHECKED BY EN

RANDELL SERVING
COUNTER

RSC
BID DOCUMENTS

MODEL: RAN STTD-45	
ITEM #44	UNIT #1
STAINLESS STEEL HOT FOOD TABLE -ACCOMMODATES (5) FULL SIZE PANS -PANS PROVIDED BY OTHERS -OPEN STORAGE BASE -INDIVIDUAL THERMOSTATIC CONTROLS AND INDICATOR LIGHTS FOR FOOD WELLS -1/2" DIAMETER CORNER DRAIN MANIFOLD TO COMMON DRAIN VALVE. DRAIN LINE EXTENDS TO 1" BELOW UNIT BOTTOM AT LEFT REAR -200V/100V/120V/5 AMP ALTERNATE VOLTAGES AVAILABLE -9 FOOT CORD - NEMA 6-50P -CONCEALED LOCKING MECHANISM -4" CASTERS - (2) LOCKING	
RAN CPTD-GL	
COUNTER PROTECTOR WITH GLASS FRONT, ENDS AND GLASS TOP	

MODEL: RAN ST-48	
ITEM #45	UNIT #1
STAINLESS STEEL WORK TOP -OPEN STORAGE BASE -CONCEALED LOCKING MECHANISM -4" CASTERS - (2) LOCKING	

SPECIFY
LAMINATE COLOR TO BE:

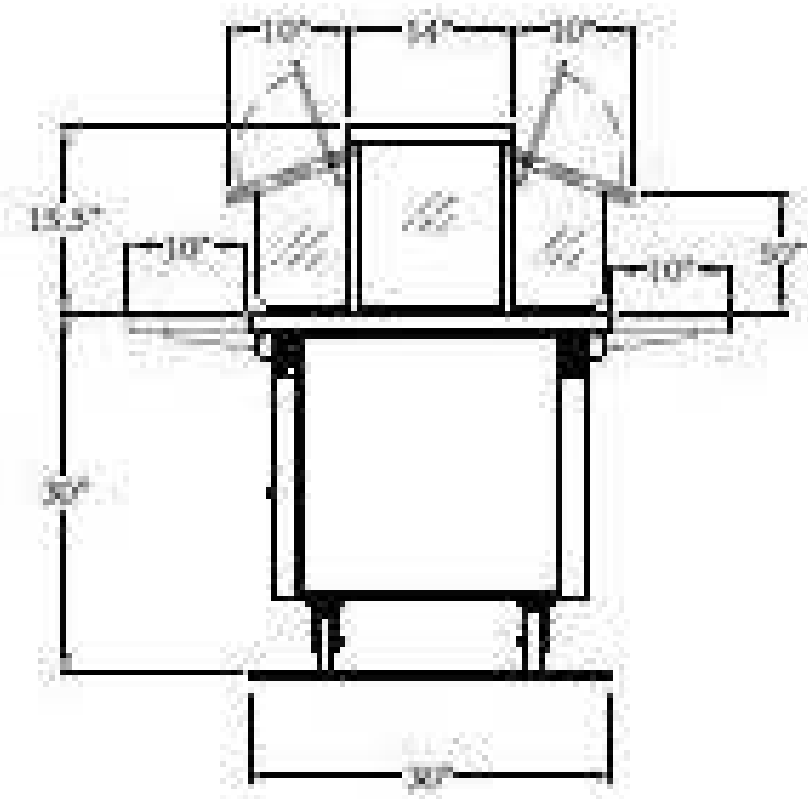
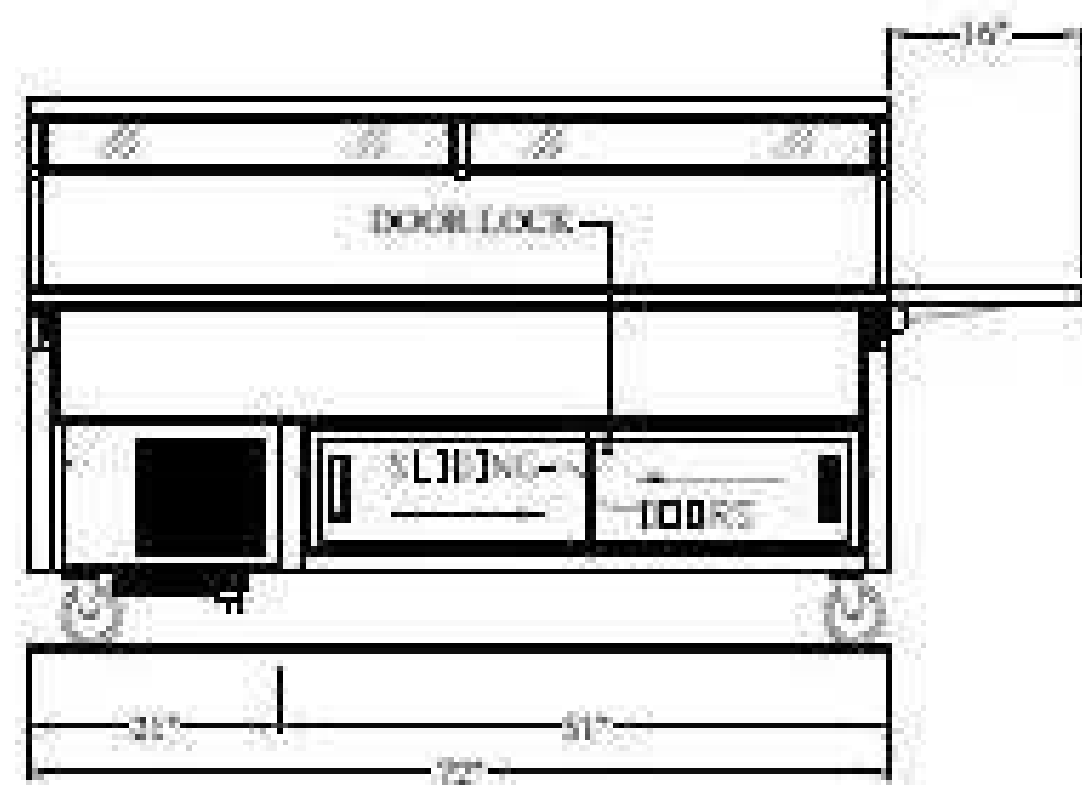
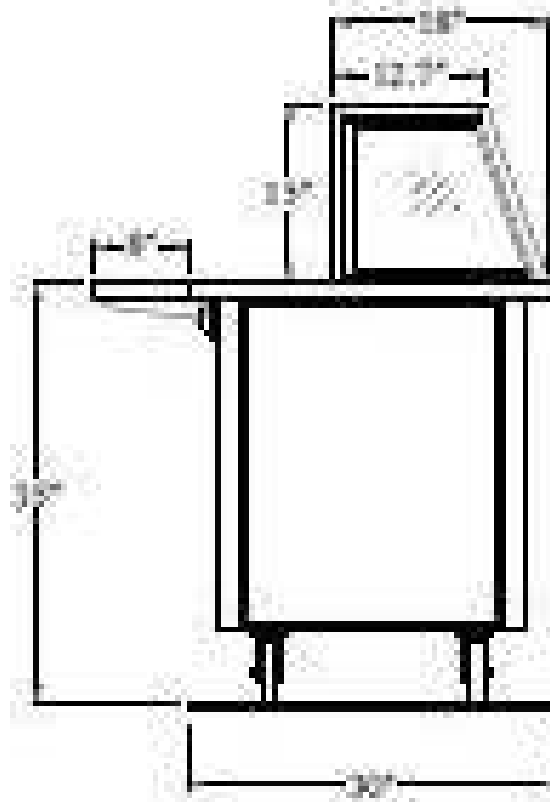
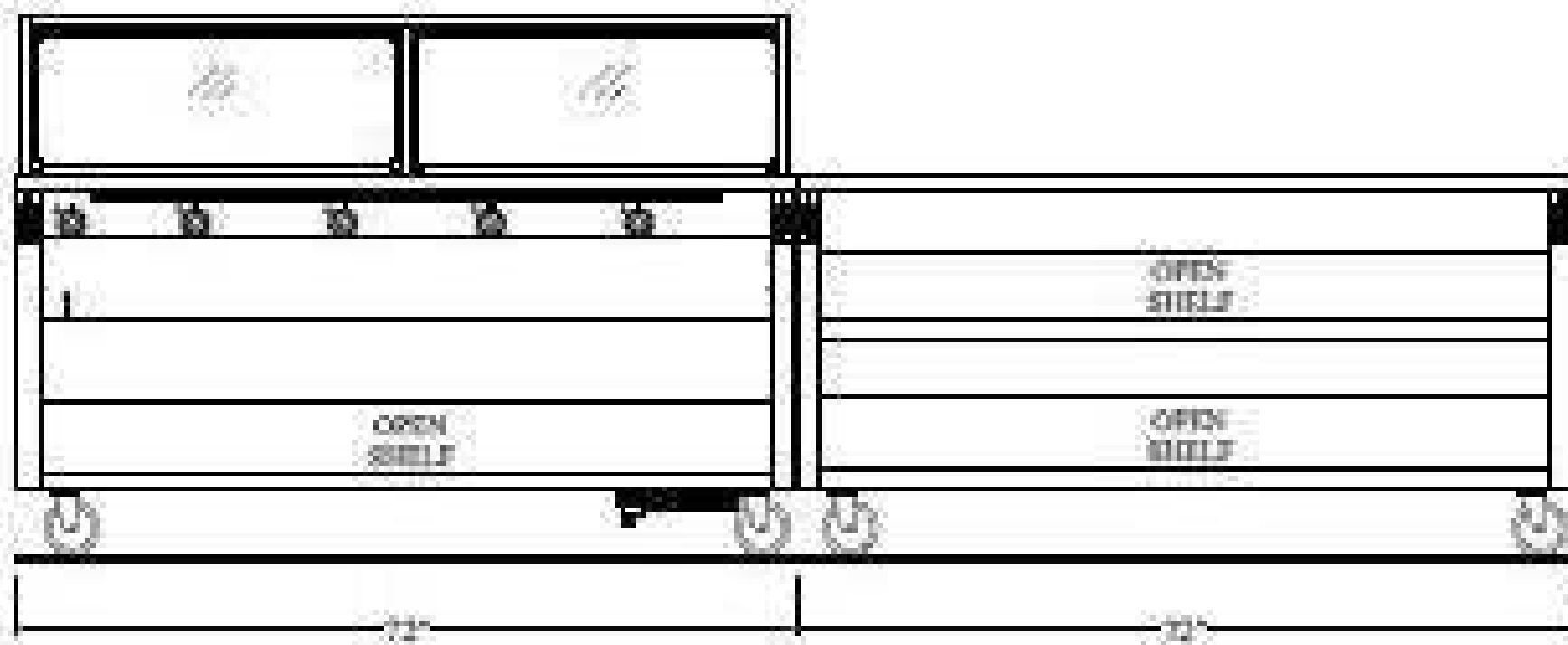
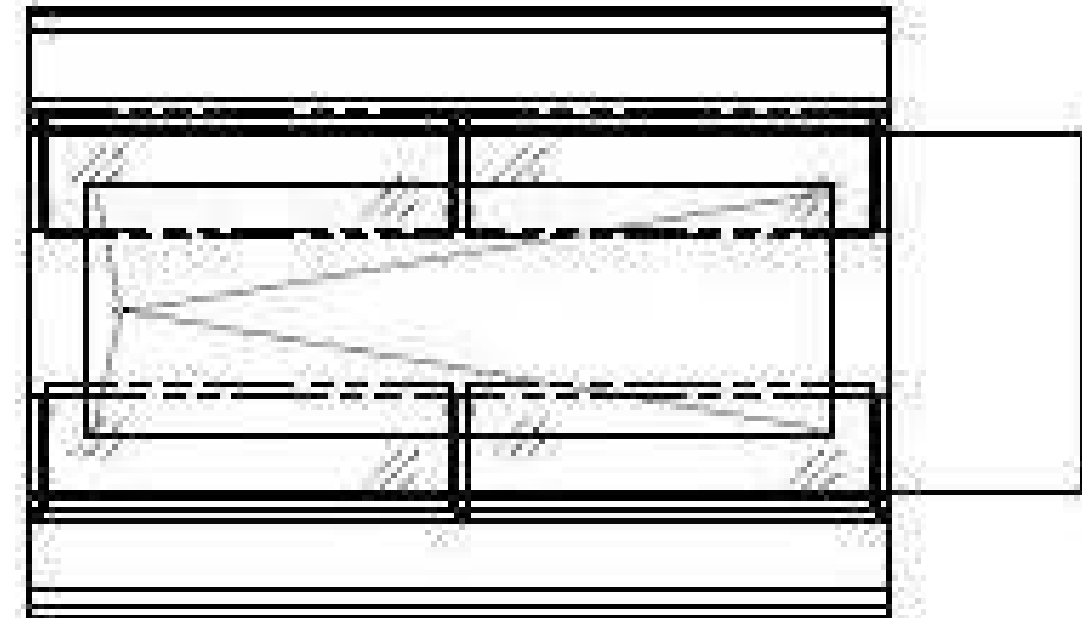
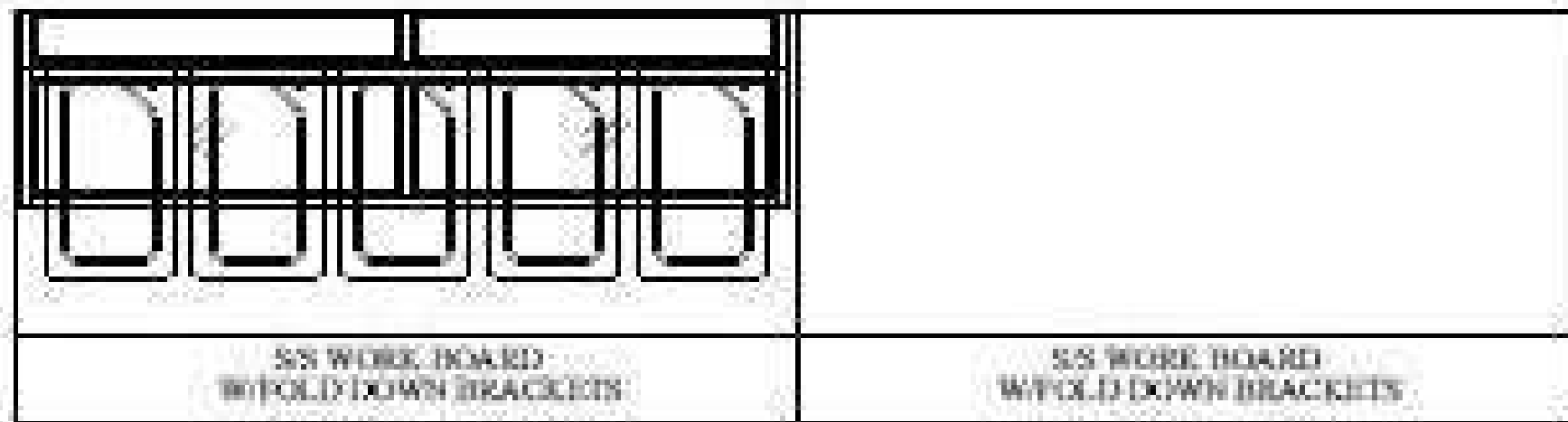
(VERIFY)	(VERIFY)	(VERIFY)
MFG.	NUMBER	COLOR

CHECK ALL THAT APPLY:
☐ CUSTOMER SEE BACK SIDE, LEFT/RIGHT, APRON
PANELS & DOOR FRONTS
☐ OPERATOR SIDE BACK, REAR LEAVES, APRON
PANELS & DOOR FRONTS

STAINLESS STEEL EXTERIOR

☐

MODEL: RS RSO-BCP-5	
ITEM #46	UNIT #1
STAINLESS STEEL REFRIGERATED COLD PAN -ACCOMMODATES (5) FULL SIZE PANS -PANS PROVIDED BY OTHERS -16" ADAPTER BARS PROVIDED -OPEN STORAGE BASE -220V REFRIGERATION SYSTEM -1" DIAMETER PVC DRAIN WITH GATE VALVE LOCATED REAR DRAINER -115V/60/1PH/3.5 AMP -9 FOOT CORD - NEMA 6-50P -CONCEALED LOCKING MECHANISM -4" CASTERS - (2) LOCKING	
STAINLESS STEEL INVERTED V TRAY SLIDE WITH HOLD DOWN BRACKET	
DUAL SIDED SUPPORT SHIELD STAINLESS STEEL TOP -SLUGGLASS SHEET GUARDS AND ENDS	



RANDELL CONSTRUCTION	
TOP -16 GAUGE STAINLESS STEEL, WITH INTERLOCK DEVICE DESIGNED TO CONNECT TO ALL OTHER RANDELL EQUIPMENT UNIT BODY -STAINLESS STEEL, ALL WELDED FRAME CONSTRUCTION -ALL CORNERS TO BE WELDED AND POLISHED -BODY PANELS TO BE EITHER STAINLESS STEEL OR LAMINATE WITH GALVANIZED STEEL BACKING (SPECIFY LAMINATE COLOR) -BODY PANELS ARE INTERCHANGABLE -FRUGGLASS CONSTRUCTION -BODY IS ONE-PIECE MOLDED FRUGGLASS WITH SMOOTH EXTERIOR FINISH (SPECIFY COLOR) -CORNERS AND AREAS WITH ATTACHED ACCESSORIES ARE REINFORCED INTERNALLY WITH METAL RACKERS	COLD PANS -WELDED COLD WALL CONSTRUCTION WITH FOAMED URETHANE INSULATION -R200 REFRIGERATION SYSTEM WITH PRECISE TEMPERATURE ELECTRONIC CONTROL -1" DRAIN WITH VALVE -PANS TO BE RECESSED IN COLD PAN HOT FOOD WELLS -11 X 20 STAMPED FOOD WELLS WITH DRAINS -ELECTRIC HEATING ELEMENT -THERMOSTAT CONTROL AND INDICATOR LIGHT FOR EACH WELL FRONT TOPS -ONE PIECE STAINLESS STEEL CONSTRUCTION WITH 1" RECESSED TOP -DESIGN TO ACCOMMODATE VARIATIONS OF 1/2" AND 1" FULL SIZE PANS -ELECTRONICALLY CONTROLLED R200 REFRIGERATION SYSTEM -FOAMED URETHANE INSULATION -1" DRAIN WITH VALVE

QUOTE # 2153621		ORIG DWG DATE: 11/08/2022		JOB NAME NORTH SCOTT ELEMENTARY	<div> randell</div>	<div>BUILDING MUST HAVE PASSAGEWAY LARGER THAN 1/2" TO PASS UNITS OF THIS SIZE (ADD IT TO BACK DIMENSION FOR CRATES/UNIT)</div> 	<div>THIS DRAWING IS THE PROPERTY OF RANDELL MANUFACTURING. THE DOCUMENT MAY CONTAIN PROPRIETARY INFORMATION OF RANDELL MANUFACTURING AND IS FOR THE USE OF RANDELL MANUFACTURING AND THEIR CUSTOMERS. INFORMATION CONTAINED IN THESE DOCUMENTS IS CONFIDENTIAL AND MAY BE COPYRIGHTED, AND, OR OF PATENTED DESIGNS. THESE DRAWINGS SHALL NOT BE DISSEMINATED TO THE PUBLIC OR FILED IN ANY PUBLIC RECORD UNLESS REQUESTED BY LAW.</div>	<div>CUSTOMER INFORMATION</div> <ul style="list-style-type: none">RANDELL BUILD TOLERANCE = ±1/8" OVERALL MEASUREMENTALL 120V - 15A & 20A CUSTOMER GENERAL USE ELECTRICAL OUTLETS WILL BE GFI.TO AVOID DATE SHIPMENT, DEALER SUPPLIED BUYOUTS, MUST BE MARKED WITH JOB NAME AND MUST BE RECEIVED BY RANDELL MFG. AT LEAST (1) WEEK PRIOR TO SCHEDULED SHIPRANDELL WILL ONLY INSTALL UL LISTED COMPONENTS.	
ORDER #		REV	DATE DESCRIPTION BY						DEALER
REF ORDER #		A	11/14/2022	REVISION					
		B							
		C							
		D							
		E							
SHEET 1 OF 1	SCALE 1/2" = 1'	F			CONSULTANT				
		G							
		H							
		I							
				SALES REP	CURATE				

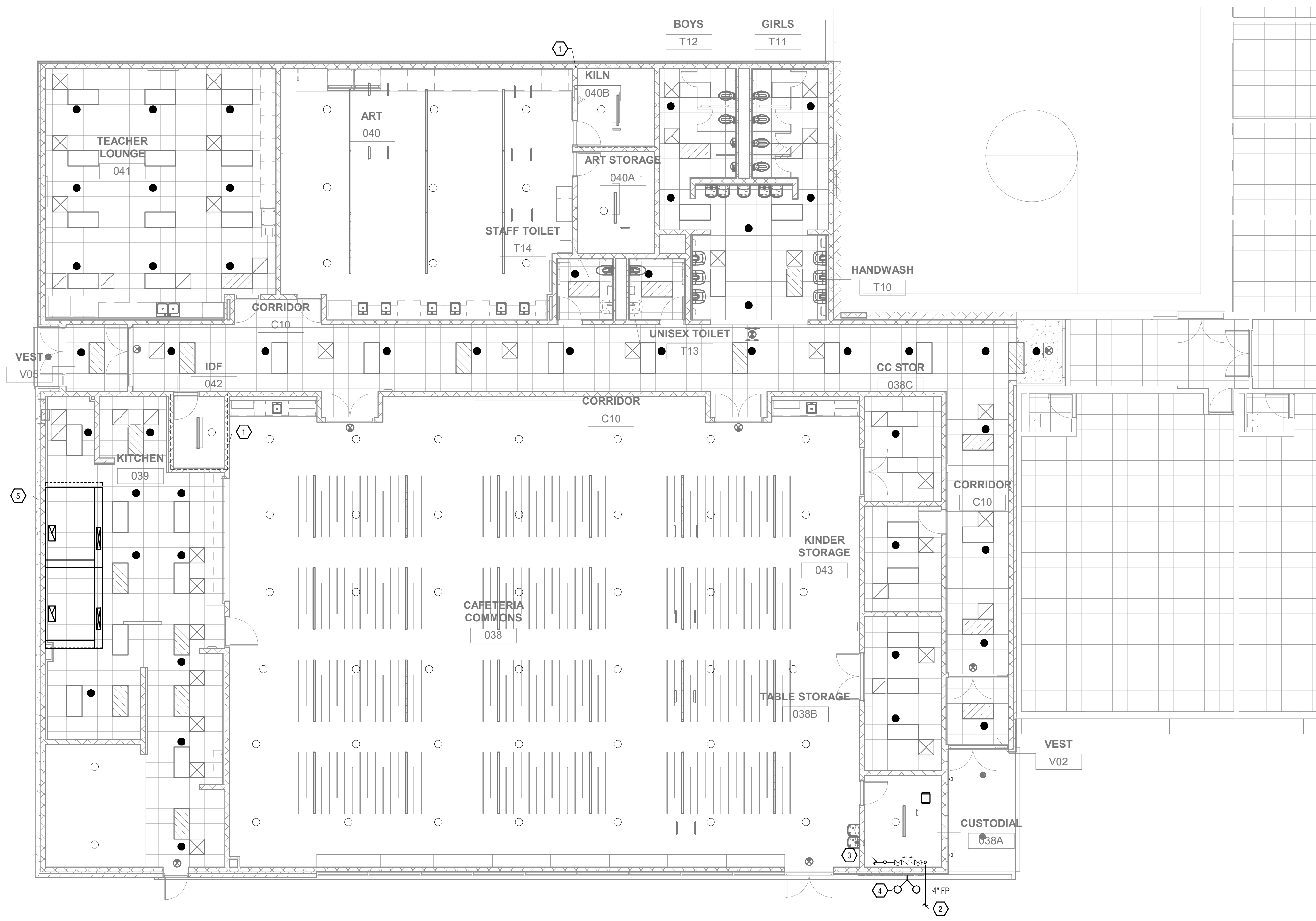
CLEVENGER ASSOCIATES

FOODSERVICE, BAKERY,
COMMISSARY AND LAUNDRY
DESIGN CONSULTING
INFO@CLEVENGERASSOC.COM

5900 SARATOGA ROAD, SUITE 2A
DUBUQUE, IOWA 52002
PHONE: (563) 582-5109
FAX: (563) 582-5110
WWW.CLEVENGERASSOC.COM

BID DOCUMENTS 12-09-22

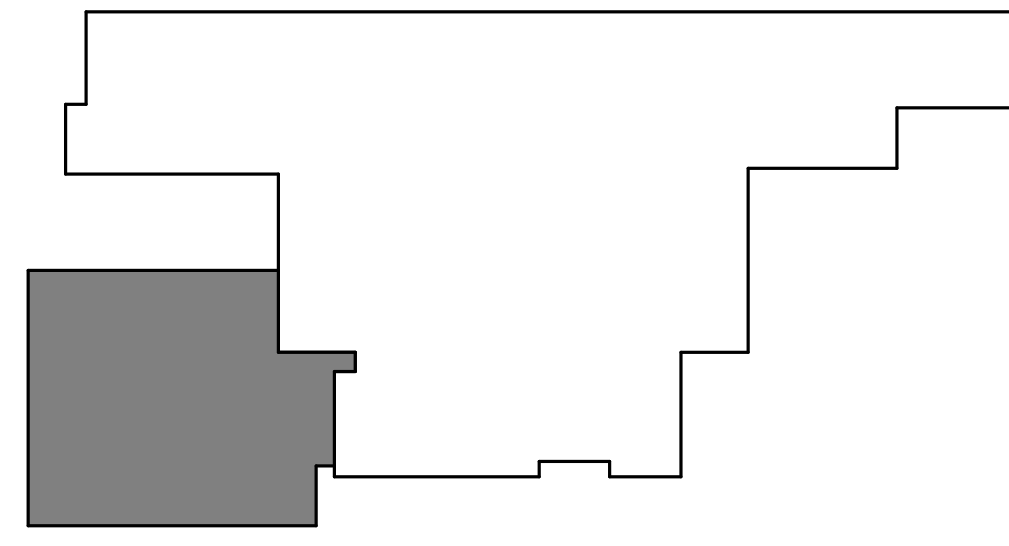
THIS DRAWING IS INTENDED FOR INFORMATION
PURPOSES ONLY FOR USE BY THE ARCHITECT AND
ENGINEERS TO PREPARE THEIR DOCUMENTS. SEE
APPROVED KITCHEN EQUIPMENT CONTRACTOR
ROUGH-IN DRAWINGS FOR CONSTRUCTION.



1 FIRST FLOOR PLAN - FIRE PROTECTION
FP-101 1/8" = 1'-0"

- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD AS STATED IN SPECIFICATION DIV. 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO GENERAL NOTES AND SYMBOLS ON SHEET FP-000.

- # KEYNOTES**
- HIGH HEAT SPRINKLER HEAD TO BE USED IN THIS AREA.
 - 4" FIRE PROTECTION MAIN TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL.
 - 4" FIRE LINE TO CONTINUE TO FEED REST OF THE ADDITION.
 - FIRE DEPARTMENT CONNECTION.
 - AREA PROTECTED BY KITCHEN HOODS ANSUL SYSTEM. COORDINATE EXACT LOCATION WITH KITCHEN CONSULTANT.



KEY PLAN

**NORTH SCOTT
SCHOOL
DISTRICT**

**COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

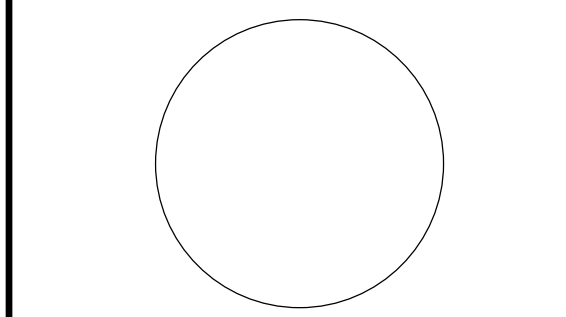
STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.imegcorp.com

MED/FP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com


















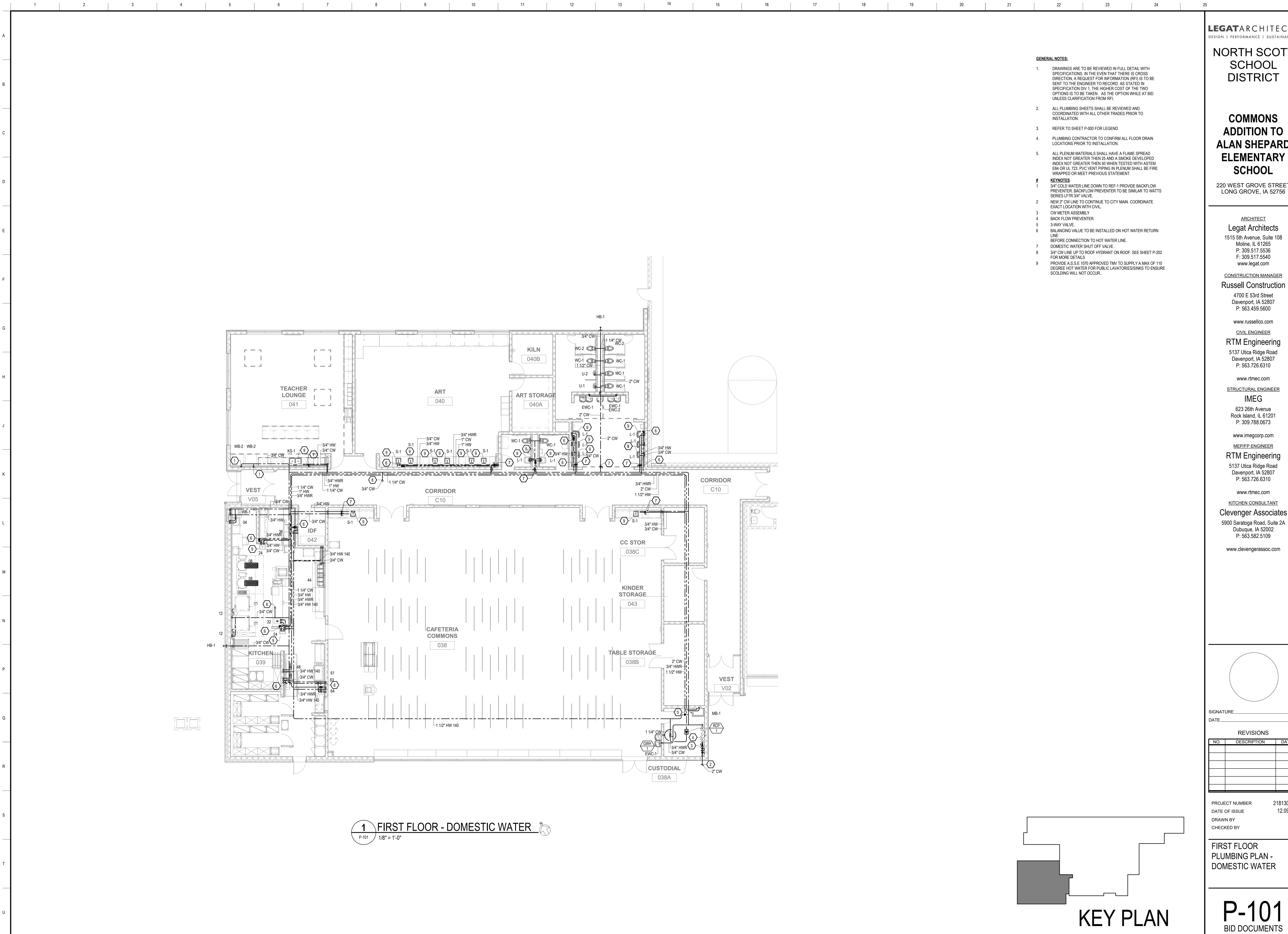
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FIRST FLOOR PLAN -
FIRE PROTECTION PLAN

	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PRESSURE GAUGE
	PRESSURE SWITCH
	THERMOMETER
	STRAINER, BLOW DOWN
	STRAINER
	EXPANSION LOOP
	EXPANSION JOINT
	WATER HAMMER ARRESTER
	AQUASTAT
	HOSE BIBB / WALL HYDRANT
	TRAP PRIMER
	VACUUM BREAKER
	SPILL PROOF VACUUM BREAKER



NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER

RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

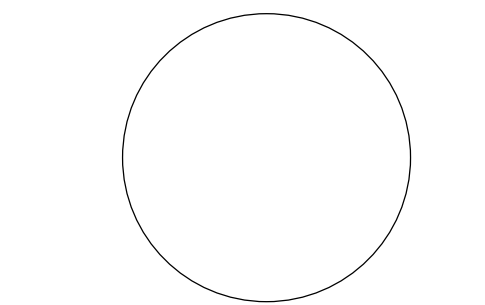
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER

RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com



SIGNATURE
DATE

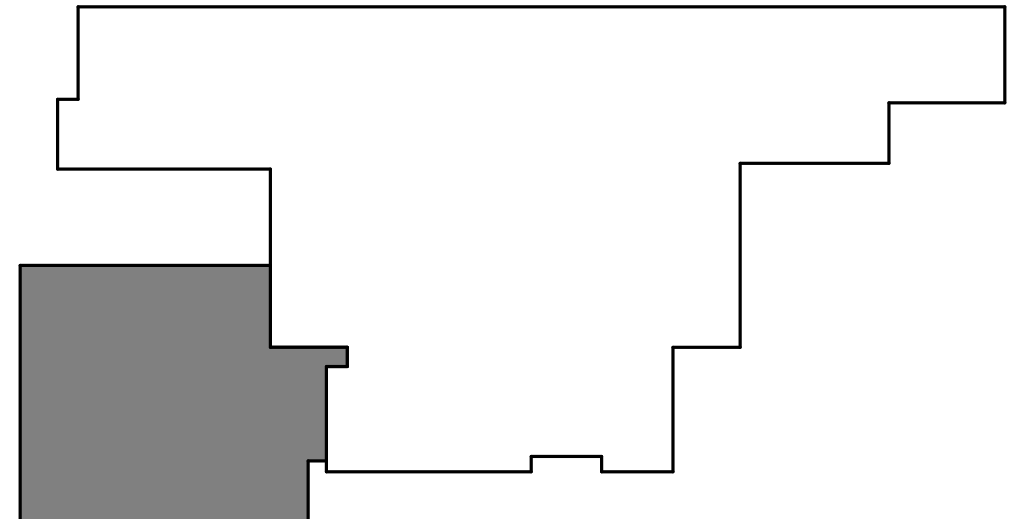
REVISIONS

NO.	DESCRIPTION	DATE

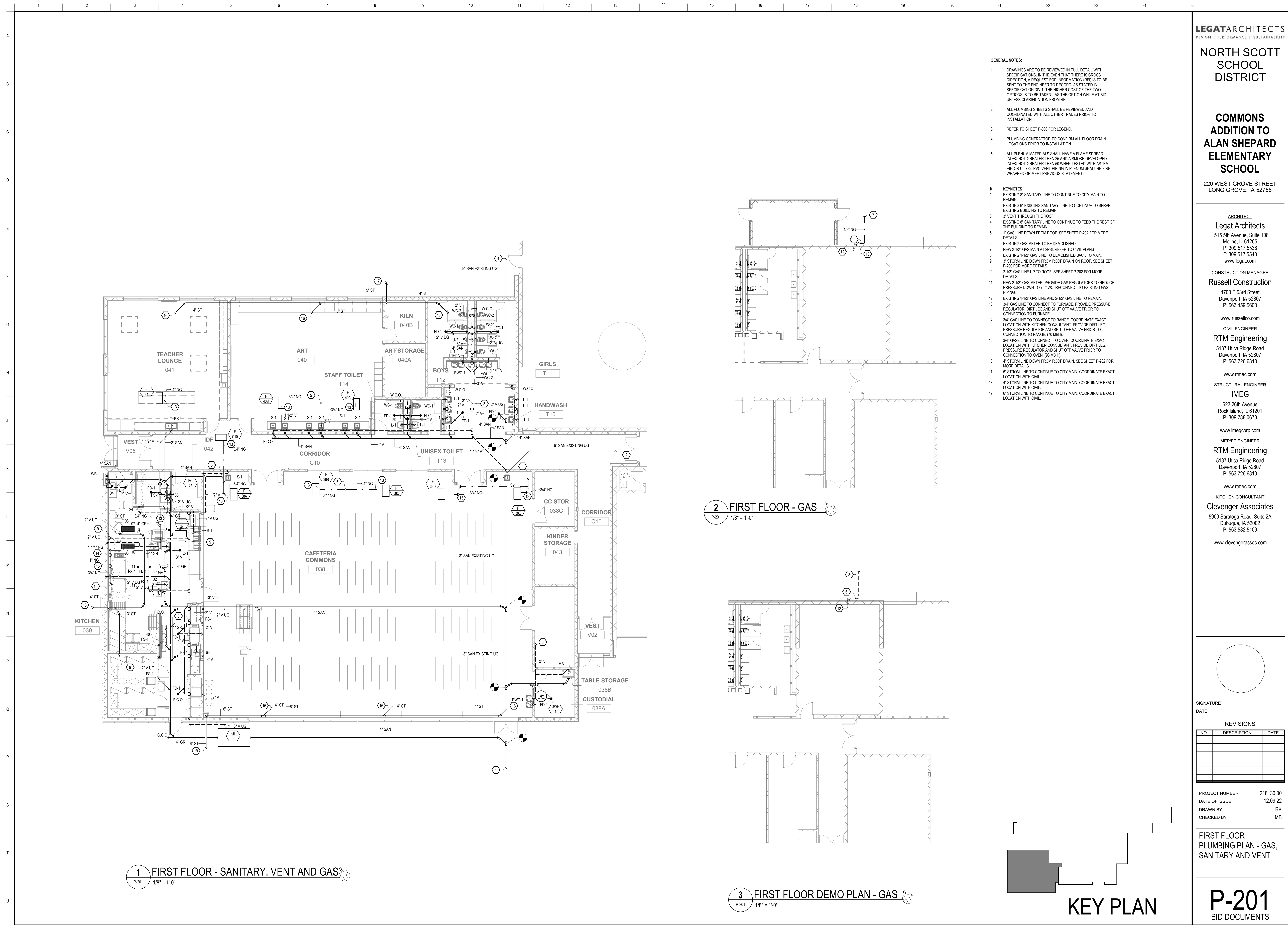
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FIRST FLOOR
PLUMBING PLAN -
DOMESTIC WATER

P-101
BID DOCUMENTS



KEY PLAN



NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDICAL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

KEY PLAN

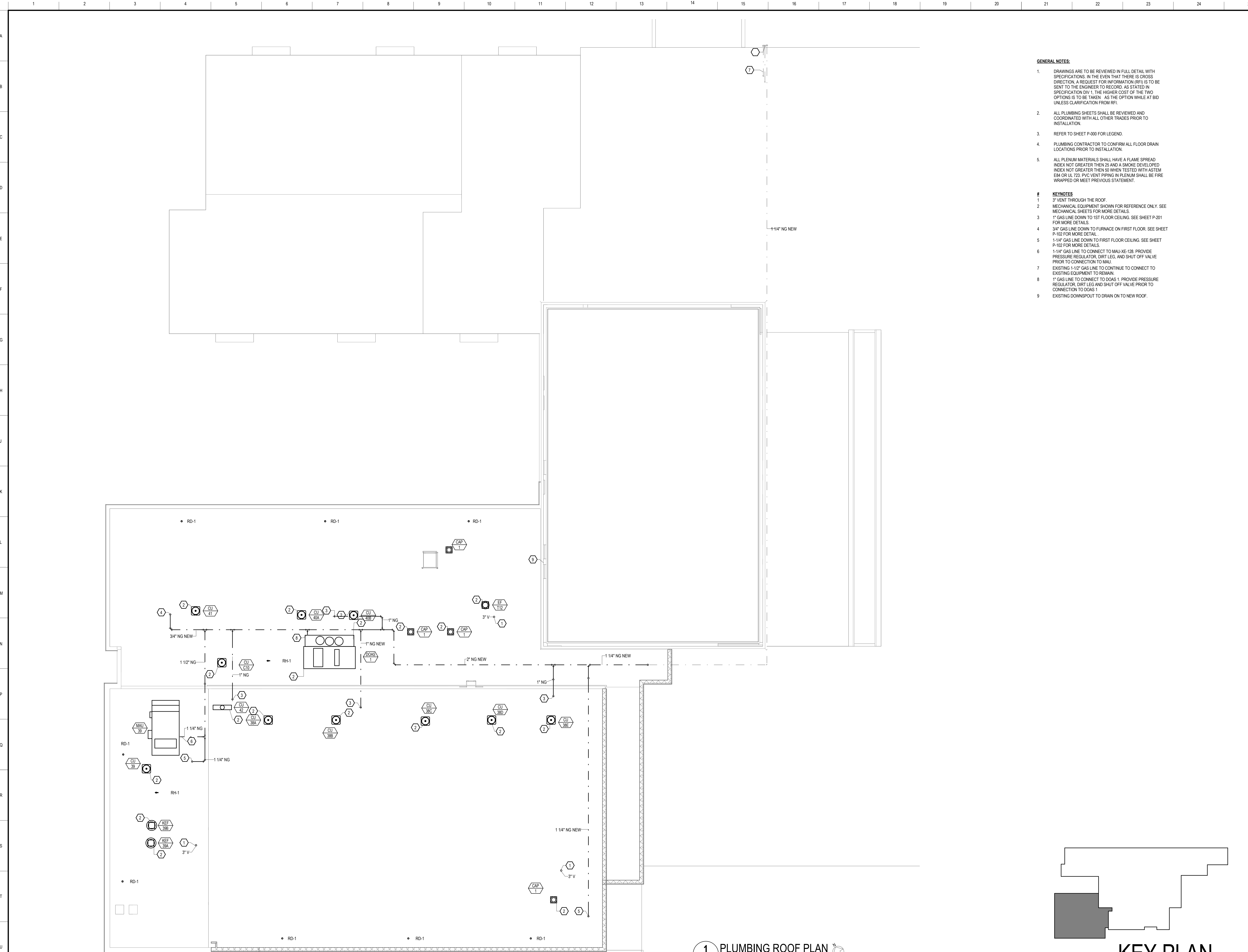
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FIRST FLOOR
PLUMBING PLAN - GAS,
SANITARY AND VENT

P-201
BID DOCUMENTS



- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD, AS STATED IN SPECIFICATION DIV 1. THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET P-000 FOR LEGEND.
 - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
 - ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THEN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THEN 50 WHEN TESTED WITH ASTM E84 OR UL 725. PVC VENT PIPING IN PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.
- # KEYNOTES**
- 3" VENT THROUGH THE ROOF.
 - MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE MECHANICAL SHEETS FOR MORE DETAILS.
 - 1" GAS LINE DOWN TO 1ST FLOOR CEILING. SEE SHEET P-201 FOR MORE DETAILS.
 - 3/4" GAS LINE DOWN TO FURNACE ON FIRST FLOOR. SEE SHEET P-102 FOR MORE DETAIL.
 - 1-1/4" GAS LINE DOWN TO FIRST FLOOR CEILING. SEE SHEET P-102 FOR MORE DETAILS.
 - 1-1/4" GAS LINE TO CONNECT TO MAU-XE-128. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE PRIOR TO CONNECTION TO MAU.
 - EXISTING 1-1/2" GAS LINE TO CONTINUE TO CONNECT TO EXISTING EQUIPMENT TO REMAIN.
 - 1" GAS LINE TO CONNECT TO DOAS 1. PROVIDE PRESSURE REGULATOR, DIRT LEG AND SHUT OFF VALVE PRIOR TO CONNECTION TO DOAS 1.
 - EXISTING DOWNSPOUT TO DRAIN ON TO NEW ROOF.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

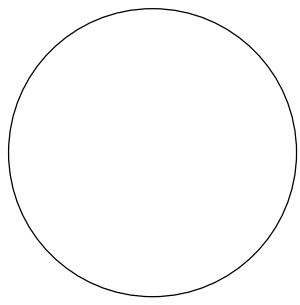
www.imegcorp.com

MED/PEP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

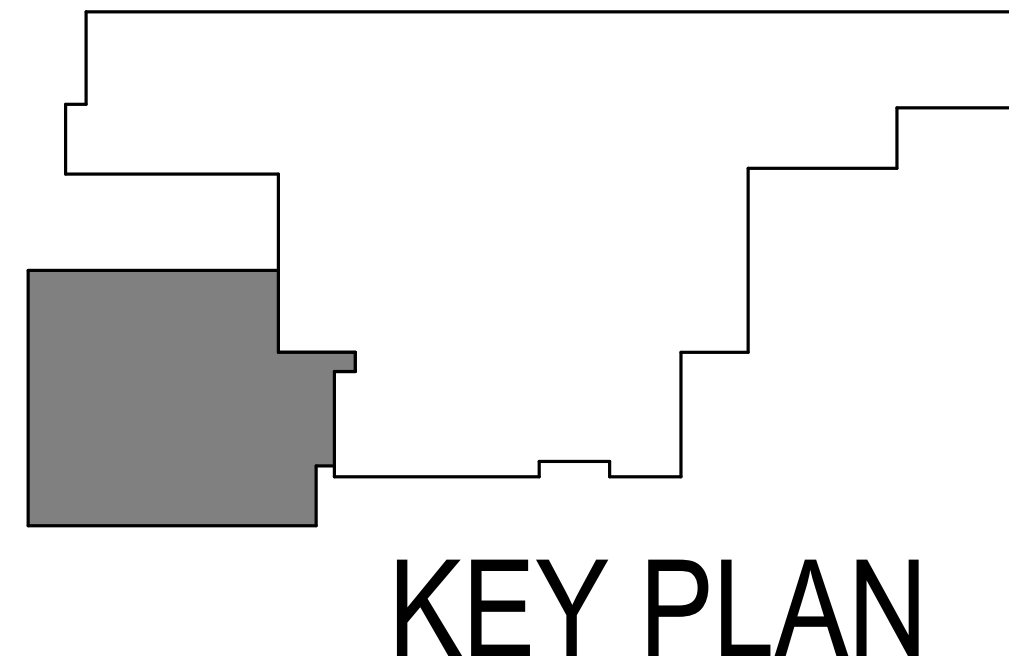
www.clevengerassoc.com


SIGNATURE _____
DATE _____

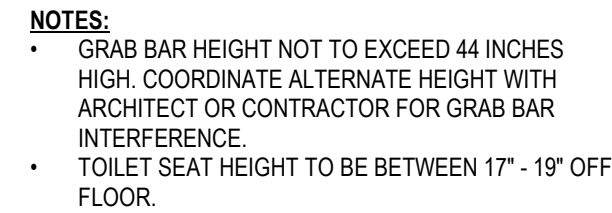
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

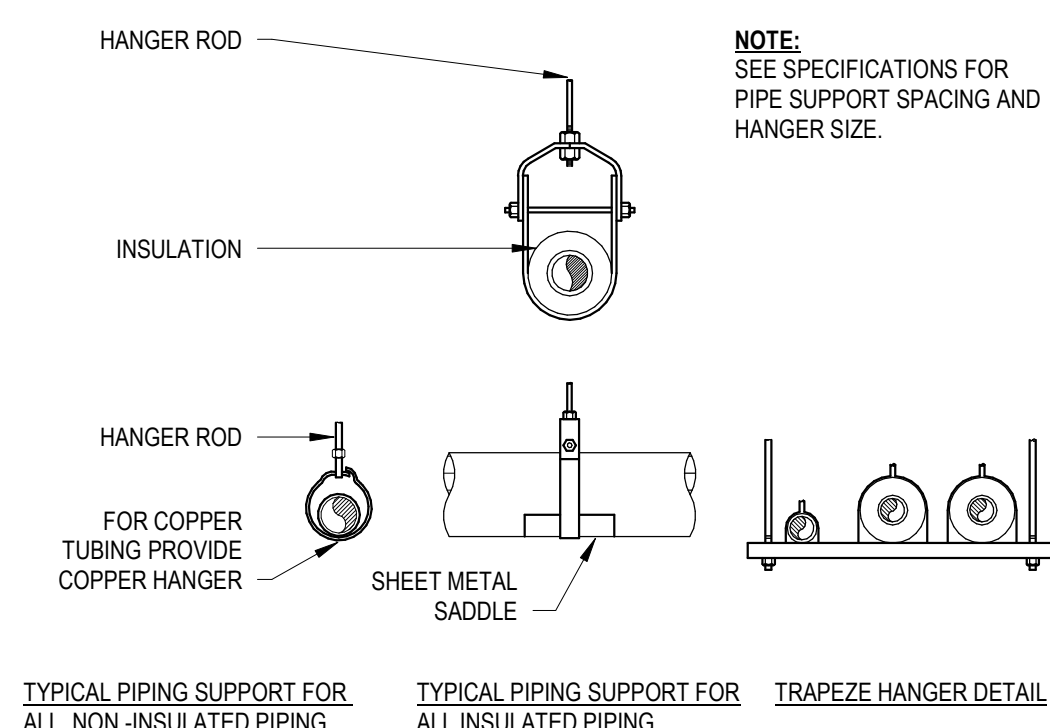
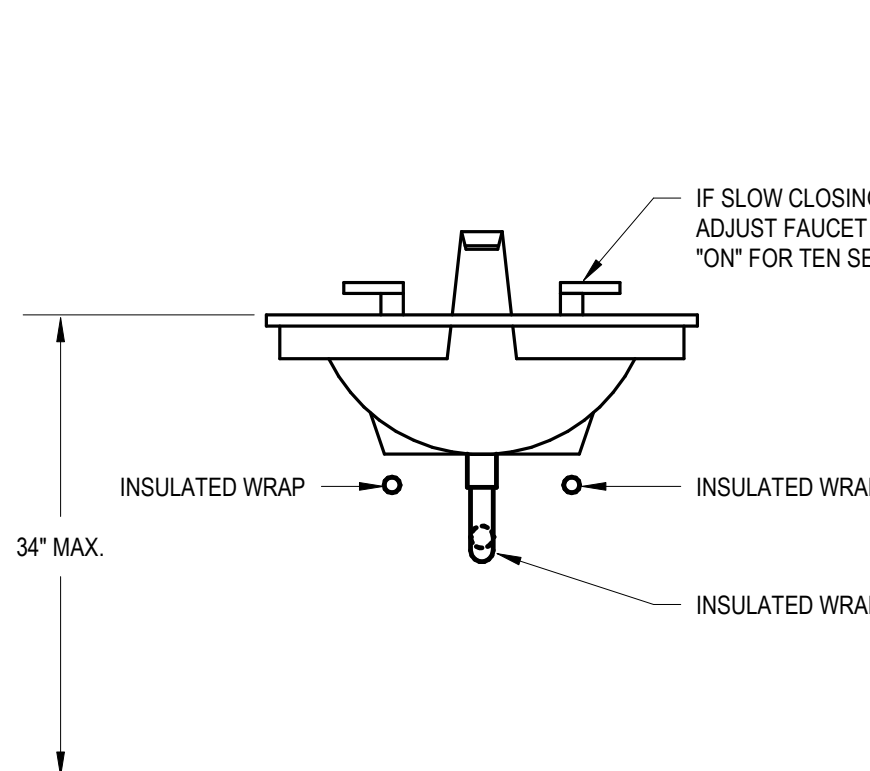
ROOF PLUMBING PLAN



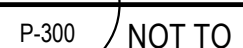
1 PLUMBING ROOF PLAN
P-202 1/8" = 1'-0"



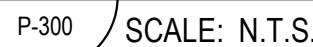
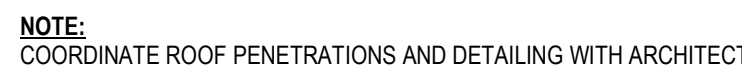
P-300 SCALE: N.T.S.



P-300	NTS
-------	-----



P-300 SCALE: N.T.S.



P-300 SCALE: N.T.S.

P-300 SCALE: N.T.S.

P-300 SCALE: N.T.S.

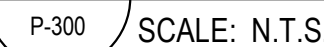
INTERCEPTOR SCHEDULE								
TAG	SERVICE	TYPE	CAPACITY		WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			LIQUID (GAL)	WASTE (LB)				
GI-1	KITCHEN	GRAVITY	1000.0	5040.0	2200	ROCKFORD SEPARATORS	RGI-1000	ALL

REMARKS:
1. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL PLANS

REMARKS:

1. LABEL ALL PUMPS
2. INLINE PUMPS TO BE SUPPORTED BY PIPING, AND/OR HUNG FROM UNSTRUCT WITH VIBRATION HANGING RODS.
3. CONTRACTOR TO VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITIONS.

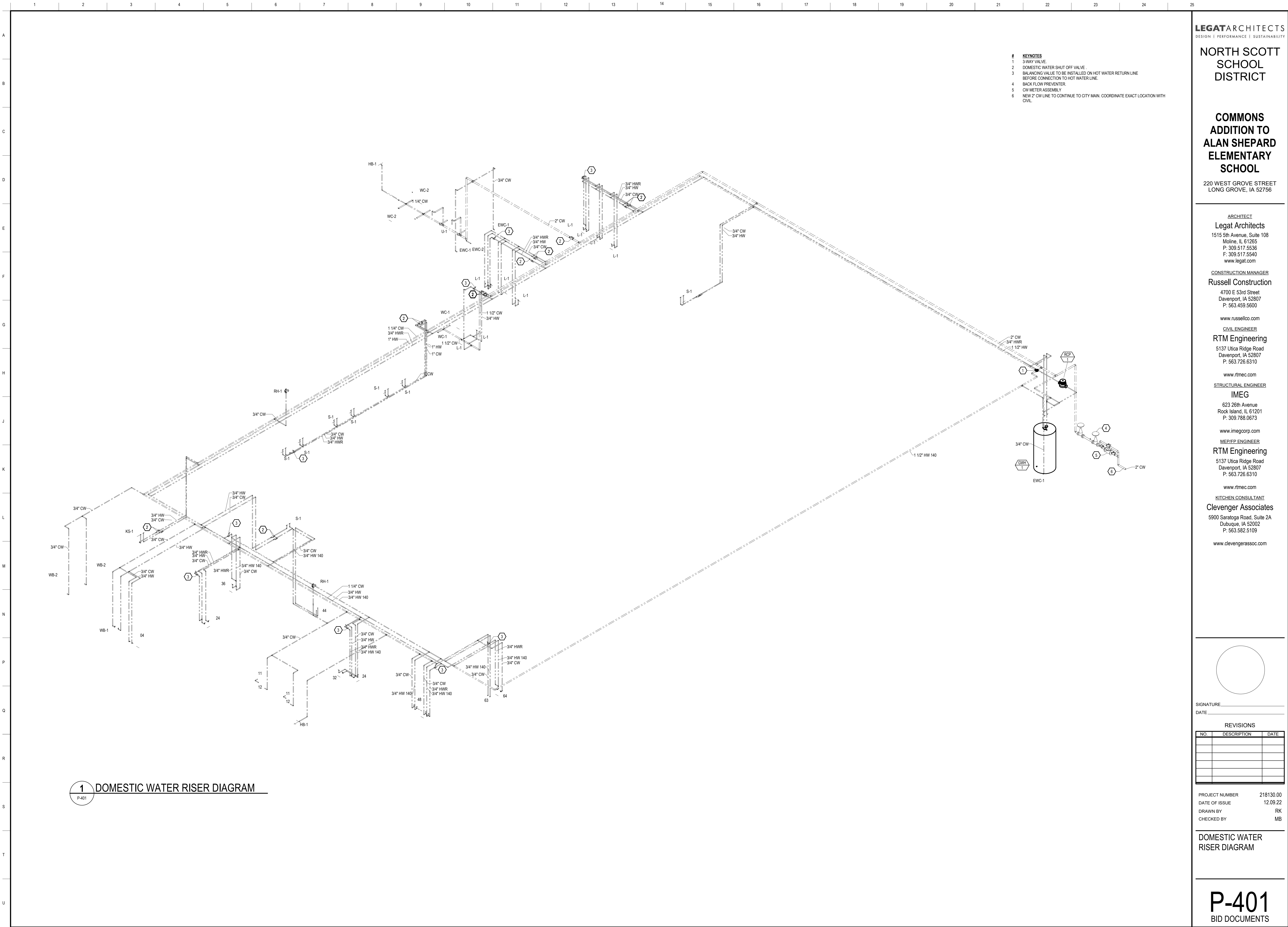
1.	3/4" GAS CONNECTION, 1" WATER CONNECTION, 3" AIR INLET CONNECTION, AND 3" VENT CONNECTION.
2.	UNIT TO USE NATURAL GAS BURNER DESIGN AND USE DOWN FIED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY. REQUIRED NO SPECIAL COLLABORATION ON START UP.
3.	WATER HEATER SHALL HAVE FOAM INSULATION AND CSA CERTIFIED, ASME RATED T&P VALVE.
4.	UNIT SHALL USE CONCENTRATOR KIT.
5.	PROVIDE 4" LEG KIT TO MEET NSF REQUIREMENTS, STANDARD CONTROLS TO INCLUDE ADJUSTABLE T-STAT, ELECTRONIC IGNITION, EMERGENCY GAS CUT-OFF AND PRESSURE REGULATOR.
6.	UNIT TO HAVE Drip PAN THAT IS TO BE DRAINED TO THE NEAREST FLOOR DRAIN.



DATE_

P-300

BID DOCUMENTS



- # KEYNOTES
- 3-WAY VALVE
 - DOMESTIC WATER SHUT OFF VALVE
 - BALANCING VALVE TO BE INSTALLED ON HOT WATER RETURN LINE BEFORE CONNECTION TO HOT WATER LINE
 - BACK FLOW PREVENTER
 - CW METER ASSEMBLY
 - NEW 2\"/>

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER

RTM Engineering

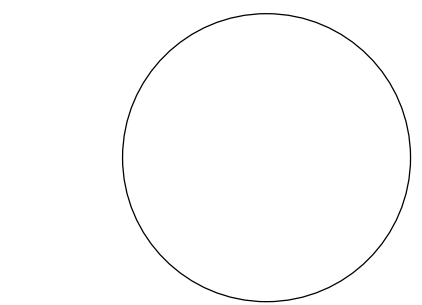
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

REVISIONS



SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00

DATE OF ISSUE 12.09.22

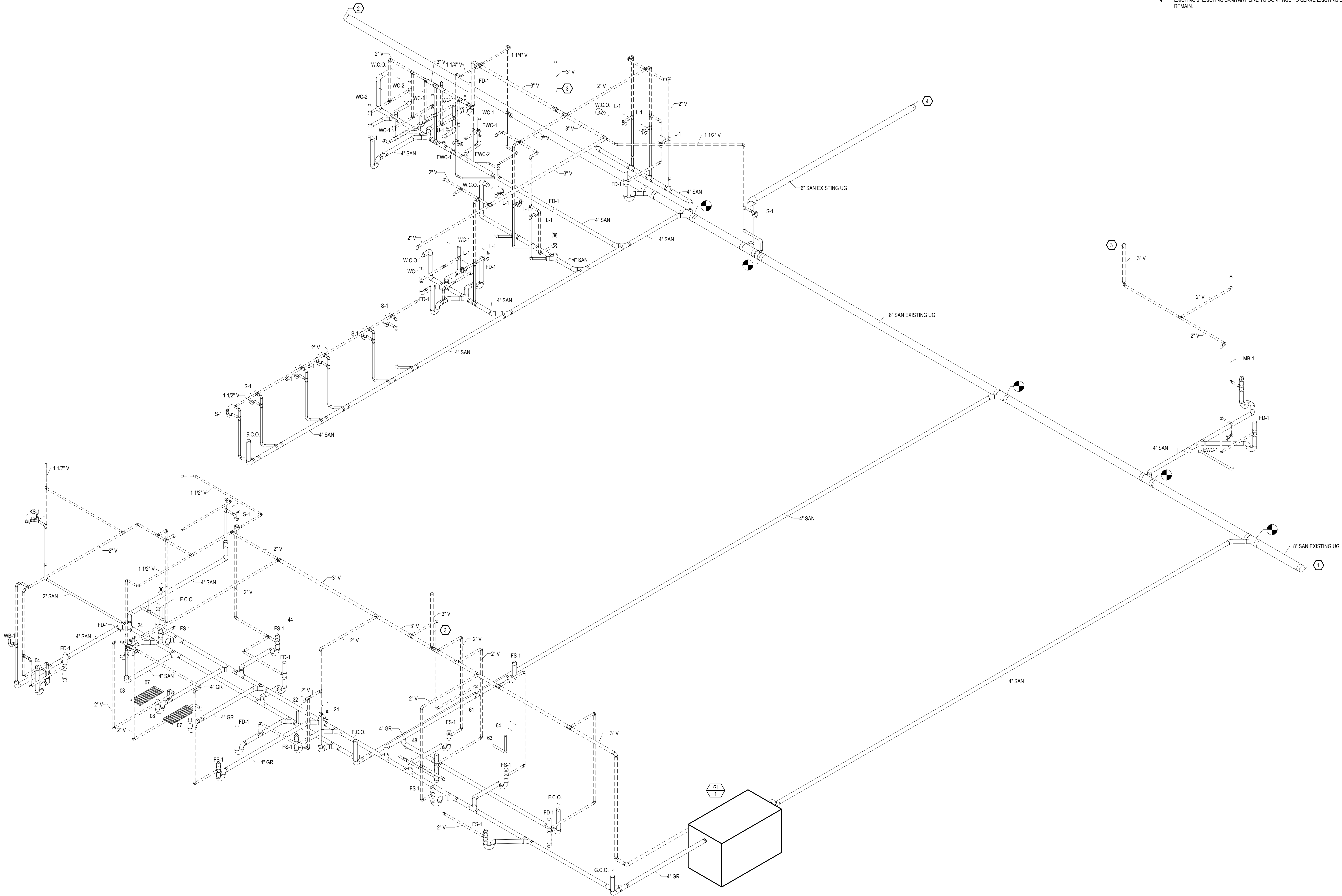
DRAWN BY RK

CHECKED BY MB

DOMESTIC WATER
RISER DIAGRAM

P-401
BID DOCUMENTS

1 SANITARY AND VENT RISER DIAGRAM
P-402



- # KEYNOTES
- 1 EXISTING 8" SANITARY LINE TO CONTINUE TO CITY MAIN TO REMAIN.
 - 2 EXISTING 8" SANITARY LINE TO CONTINUE TO FEED THE REST OF THE BUILDING TO REMAIN.
 - 3 3" VENT THROUGH THE ROOF.
 - 4 EXISTING 6" EXISTING SANITARY LINE TO CONTINUE TO SERVE EXISTING BUILDING TO REMAIN.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER

RTM Engineering

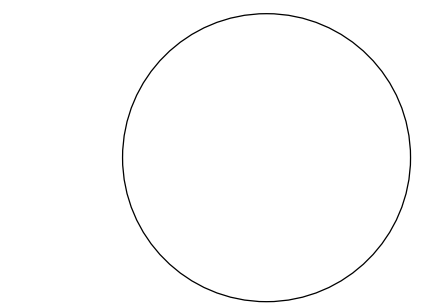
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

SANITARY AND VENT
RISER DIAGRAM

P-402
BID DOCUMENTS

A

B

C

D

E

F

G

H

J

K

L

M

N

P

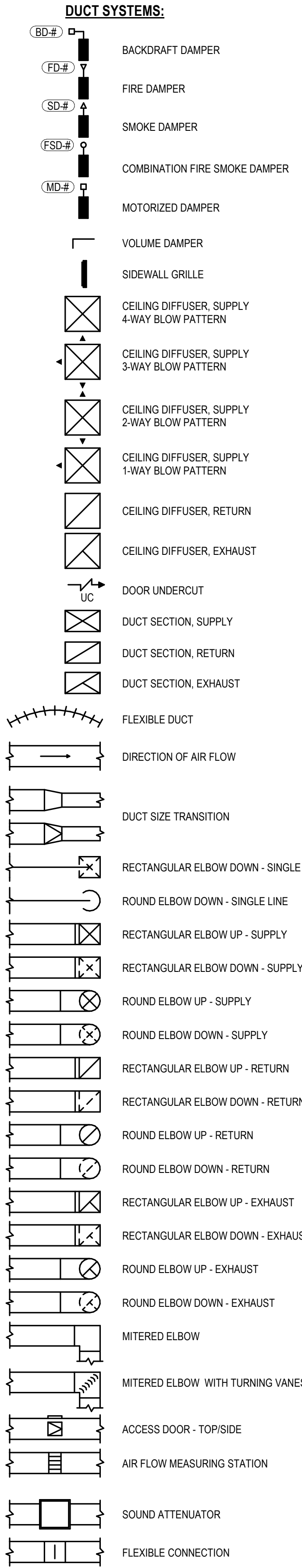
Q

R

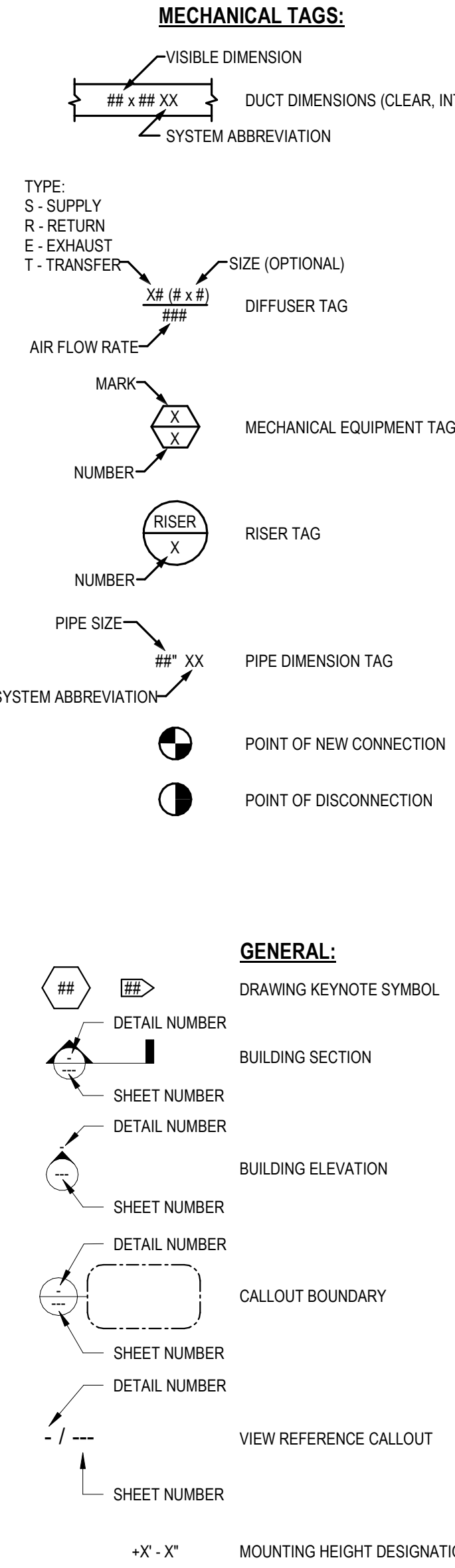
S

T

U



- HVAC SENSORS:**
- CO₂ CARBON DIOXIDE
 - CO CARBON MONOXIDE
 - DS DEWPOINT
 - G GAS
 - H HUMIDITY
 - NO NITROGEN OXIDE
 - P RELATIVE PRESSURE MONITOR
 - R REFRIGERANT MONITOR
 - SD SMOKE DETECTOR
 - SP STATIC PRESSURE
 - T THERMOSTAT
 - TS TEMPERATURE



- DUCT SYSTEM ABBREVIATIONS:**
- CA COMBUSTION AIR
 - CV COMBUSTION VENT
 - EA-AII EXHAUST AIR - AIRBORNE
 - EA-CH EXHAUST AIR - CHEMICAL
 - EA-D EXHAUST AIR - DRYER
 - EA EXHAUST AIR - ENVIRONMENTAL
 - EA-K1 TYPE 1 - KITCHEN EXHAUST
 - EA-K2 TYPE 2 - KITCHEN EXHAUST
 - OA OUTDOOR AIR
 - RA RETURN AIR
 - SA SUPPLY AIR

- MECHANICAL ABBREVIATIONS:**
- AC AIR CONDITIONER
 - ACH AIR CHANGES PER HOUR
 - AF AIR FILTER
 - AHU AIR HANDLING UNIT
 - APD AIR PRESSURE DROP
 - BAS BUILDING AUTOMATION SYSTEM
 - BHP BRAKE HORSEPOWER
 - BTU BTU PER HOUR
 - BTUH BTU PER HOUR
 - CC COOLING COIL
 - CF CUBIC FEET
 - CFH CUBIC FEET PER HOUR
 - CFM CUBIC FEET PER MINUTE
 - CH CHILLER
 - CO CLEANOUT
 - CT COOLING TOWER
 - CU CONDENSING UNIT
 - CUH CABINET UNIT HEATER
 - CV CONSTANT AIR VOLUME
 - DAT DISCHARGE AIR TEMPERATURE
 - DB DECIBEL OR DRY BULB TEMPERATURE
 - DDC DIRECT DIGITAL CONTROL
 - DH DUCT HEATER
 - DX DIRECT EXPANSION
 - EAT ENTERING AIR TEMPERATURE
 - EER ENERGY EFFICIENCY RATIO
 - EF EXHAUST FAN
 - ESP EXTERNAL STATIC PRESSURE
 - ET EXPANSION TANK
 - EWT ENTERING WATER TEMPERATURE
 - FA FREE AREA
 - FC FAN COIL
 - FD FIRE DAMPER
 - FH FUME HOOD
 - FPB FAN POWERED BOX
 - FPM FEET PER MINUTE
 - FPS FEET PER SECOND
 - FS FREEZE STAT
 - FSD COMBINATION FIRE/SMOKE DAMPER
 - GA GAUGE
 - GAL GALLON
 - GPH GALLONS PER HOUR
 - GPM GALLONS PER MINUTE
 - H HUMIDISTAT
 - HC HEATING COIL
 - HD HOOD OR HEAT DETECTOR
 - HEPA HIGH EFFICIENCY PARTICULATE AIR FILTER
 - HP HORSEPOWER OR HEAT PUMP
 - HR HOUR
 - HUM HUMIDIFIER
 - HX HEAT EXCHANGER
 - HZ HERTZ
 - IN W.C. INCHES WATER COLUMN
 - IN W.G. INCHES WATER GAUGE
 - KW KILOWATT
 - KWH KILOWATT HOUR
 - LAT LEAVING AIR TEMPERATURE
 - LBS POUNDS
 - LWT LEAVING WATER TEMPERATURE
 - MBH THOUSAND BTUH
 - NC NORMALLY CLOSED
 - NK NECK
 - NO NORMALLY OPEN
 - P PUMP
 - PA PASCAL
 - PH PHASE
 - PRV PRESSURE REDUCING VALVE
 - PSIA POUNDS PER SQUARE INCH
 - PSIG ABSOLUTE
 - PSFG POUNDS PER SQUARE INCH GAUGE
 - RF RETURN FAN
 - RH RELATIVE HUMIDITY
 - RHC REHEAT COIL
 - RO RELIEF OPENING
 - RPM REVOLUTIONS PER MINUTE
 - SAK SUPPLY AIR TEMPERATURE
 - SD SMOKE DAMPER OR SMOKE DETECTOR
 - SF SQUARE FEET OR SUPPLY FAN
 - SPS STATIC PRESSURE SENSOR
 - T THERMOSTAT
 - TD TEMPERATURE DIFFERENCE
 - TO TRANSFER OPENING
 - TYP TYPICAL
 - UC UNDERCUT (DOOR)
 - UH UNIT HEATER
 - VAV VARIABLE AIR VOLUME
 - VD VOLUME DAMPER
 - VFD VARIABLE FREQUENCY DRIVE
 - VSD VARIABLE SPEED DRIVE
 - VTR VENT THROUGH ROOF
 - W WATT
 - WB WET BULB TEMPERATURE
 - WC WATER COLUMN
 - WPD WATER PRESSURE DROP

- GENERAL ABBREVIATIONS:**
- A/E ARCHITECT/ENGINEER
 - ABV ABOVE
 - AFF ABOVE FINISHED FLOOR
 - AFG ABOVE FINISHED GRADE
 - ALT ALTERNATE
 - ARCH ARCHITECT
 - BFG BELOW FINAL GRADE
 - BLDG BUILDING
 - CLG CEILING
 - DIR DIRECT
 - DISC DISCONNECT
 - DN DOWN
 - EC ELECTRICAL CONTRACTOR
 - ELEV ELEVATION REFERENCE
 - EM EMERGENCY
 - EP EXPLOSION PROOF
 - EWC ELECTRIC WATER COOLER
 - FLUSH FURNISHED BY OTHERS
 - FBO FURNISHED BY OTHERS
 - FIXT FIXTURE
 - FLA FULL LOAD AMPS
 - FLR FLOOR
 - FS FLOW SWITCH
 - GC GENERAL CONTRACTOR
 - GRD GROUND
 - GYP GYPSUM BOARD
 - HC HEATING CONTRACTOR
 - HVAC HEATING & VENTILATING - AIR CONDITIONING
 - HW HEAVY WALL
 - ID INDIRECT
 - IL INTERLOCK
 - IU IN UNIT
 - J-BOX JUNCTION BOX
 - LG LAY-IN GRID
 - LTG LIGHTING
 - LV LOW VOLTAGE
 - LVT LINE VOLTAGE THERMOSTAT
 - MC MECHANICAL CONTRACTOR
 - MCA MINIMUM CIRCUIT AMPS
 - MOCP MAXIMUM OVERCURRENT PROTECTION
 - MTD MOUNTED
 - NC NOT IN CONTRACT
 - NTS NOT TO SCALE
 - PLBG PLUMBING CONTRACTOR
 - ROOM ROOM
 - SURF SURFACE
 - TS TAMPER SWITCH
 - TYP TYPICAL
 - UG UNDERGROUND
 - VC VENTILATION CONTRACTOR

- GENERAL NOTES:**
- CONTRACTOR SHALL PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR AS REQUIRED TO INSTALL A COMPLETE AND OPERABLE HVAC SYSTEM PER THE NEW ARCHITECTURAL LAYOUT AND AS TO COMPLY WITH THE SPECIFICATION, DETAILS, THIS SCOPE OF WORK AND ALL APPLICABLE CODES.
 - ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL NEW WORK WITH ALL TRADES PRIOR TO ANY WORK BEING DONE TO INSURE CONFLICTS DO NOT OCCUR.
 - DISRUPTION OF ANY EXISTING SERVICE SHALL BE CLEARED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
 - ALL DUCT SIZES INDICATED ON PLANS AND RISERS ARE CLEAR INSIDE DIMENSIONS. DUCT SIZES NOT SHOWN SHALL BE SIZED TO VELOCITIES NO GREATER THAN UPSTREAM SECTION USING SIMILAR ASPECT RATIOS.
 - ALL SUPPLY AIR TAKEOFFS FROM MAIN TRUNK DUCTS ARE TO BE INSTALLED WITH BELL MOUTH FITTINGS OR 45 DEGREE ENTRY TO PROVIDE THE SMOOTHEST AIR FLOW POSSIBLE.
 - PROVIDE TURNING VANES IN ALL LOW PRESSURE 90DEGREE DUCT TURNS.
 - ALL THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
 - ALL DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS ARE TO BE BALANCED PRIOR TO CEILING INSTALLATIONS.
 - CONTRACTOR SHALL PROVIDE ACCESS DOORS FOR SERVICE AND MAINTENANCE OF ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS.
 - PROVIDE GUIDES, HANGERS, EXPANSION LOOPS AND SUPPLEMENTARY STEEL SUPPORT WHERE REQUIRED FOR ALL PIPING.
 - ALL ROOF TOP UNITS TO HAVE 24" ROOF CURB.

INSULATION SCHEDULE:

ALL EXPOSED DUCTWORK IN CONDITIONED SPACES OR SPIRAL DUCT	1" LINED
ALL EXTERIOR DUCTWORK	MIN. R-12
ALL CONCEALED SUPPLY AND RETURN DUCT	MIN. R-6
ALL EXHAUST UP TO 10'-0" FROM DISCHARGE	MIN. R-6
ALL HEATING AND COOLING HYDRONIC PIPING	MIN. 2"
CONDENSATE PIPING	MIN. 1"

NOTE:
ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUGSEMBEDED-FABRICSYSTEMS OR TAPES.
TYPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MED/PEP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____
DATE _____

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

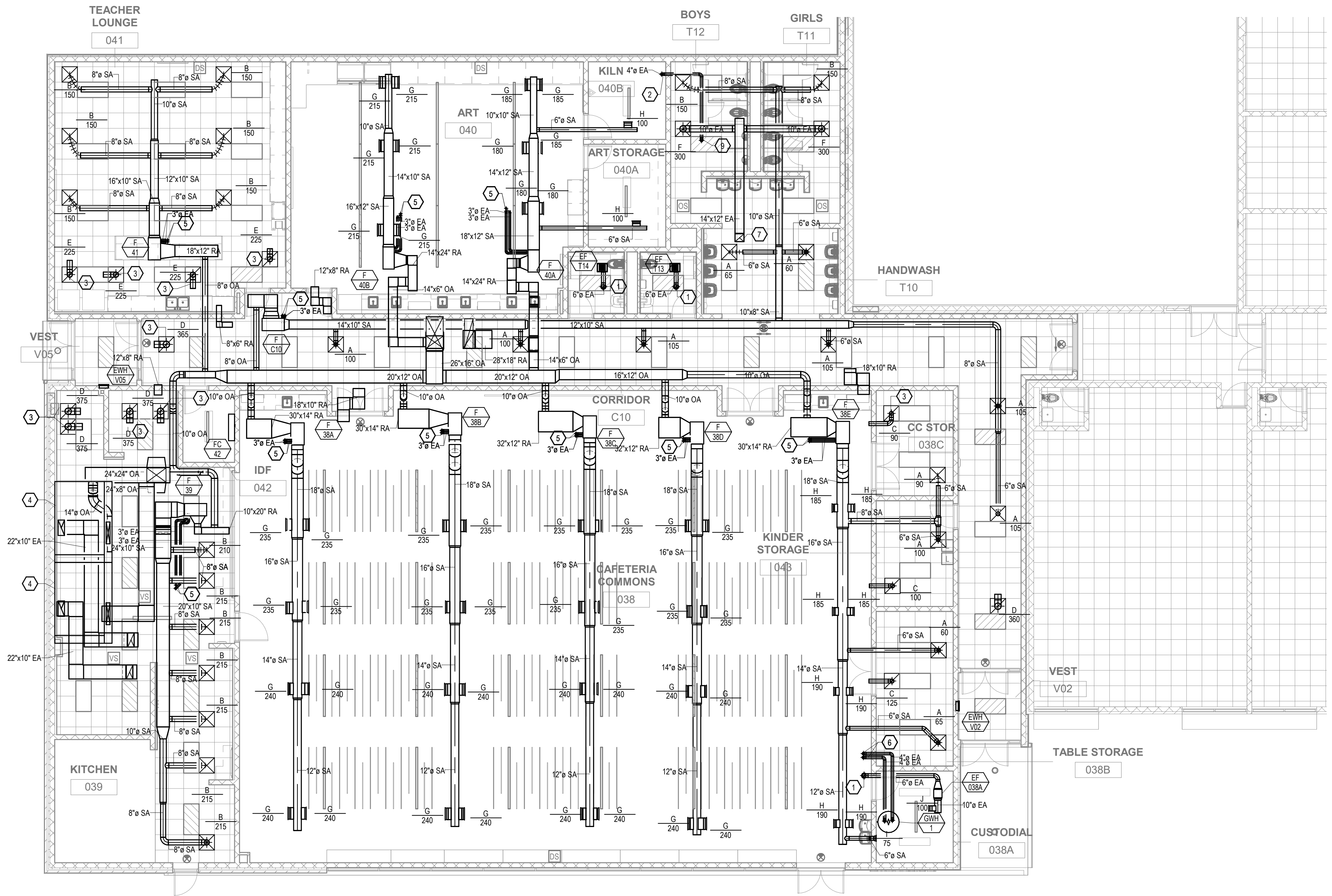
CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

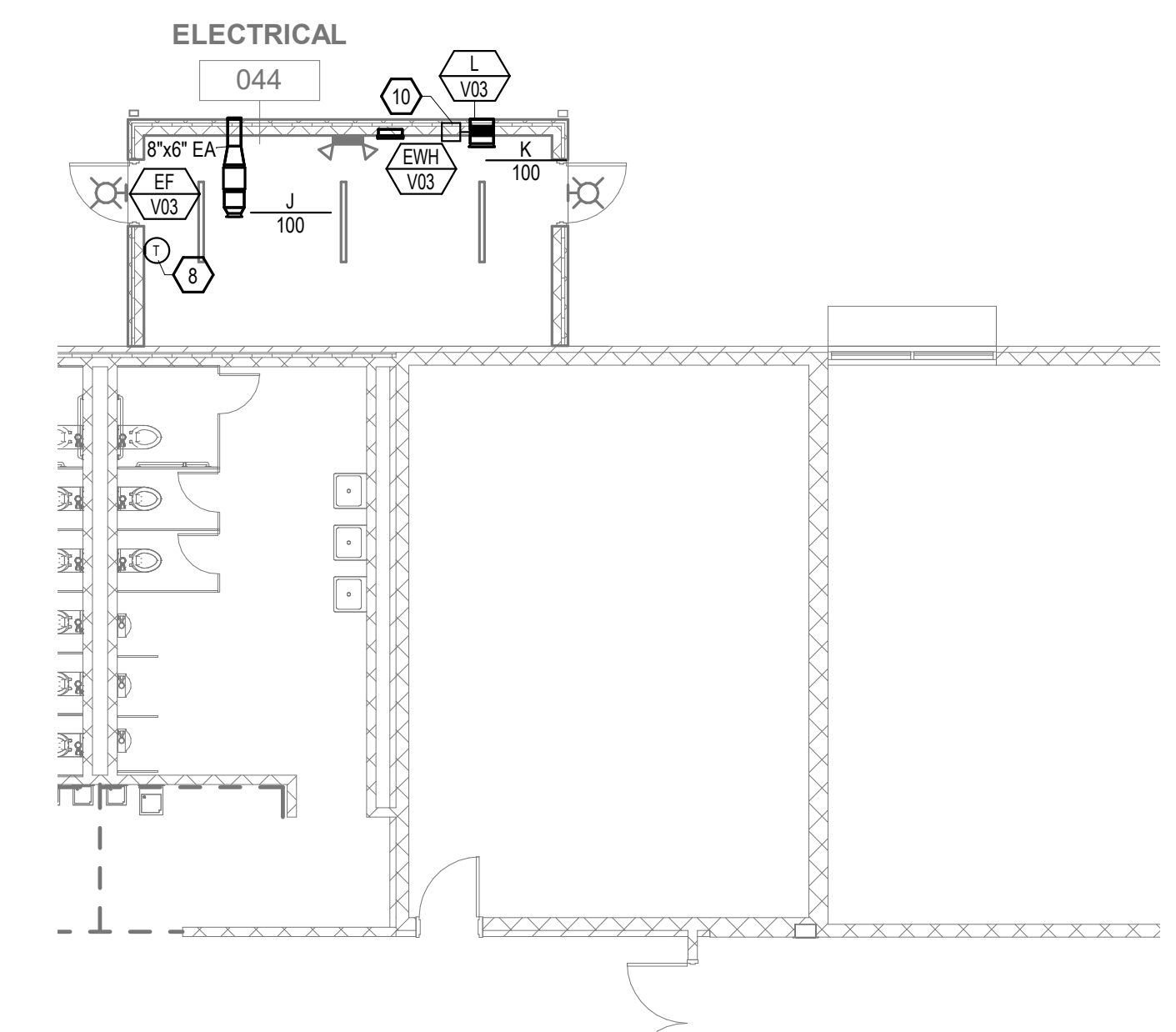
MED/PEP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

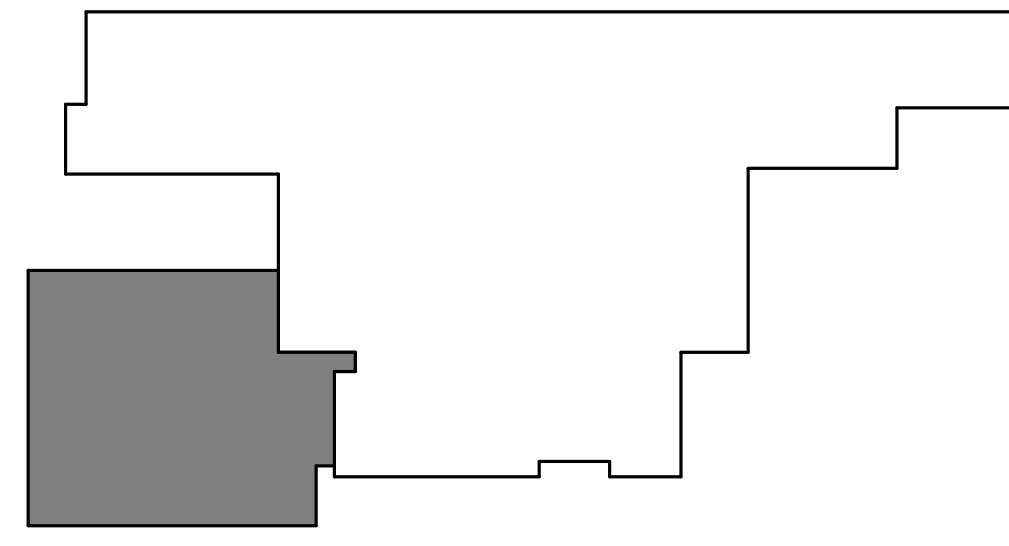
- GENERAL NOTES:
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
- # KEYNOTES
- 8" EXHAUST DUCT UP THROUGH ROOF.
 - 4" KILN EXHAUST DUCT DOWN WALL TO CONNECT TO KILN EXHAUST CONNECTION.
 - UNED ELBOW OFF RETURN FOR PLENUM RETURN. REFER TO GRILL AND REGISTER SCHEDULE FOR DUCT SIZE.
 - AREA DEDICATED BY KITCHEN HOOD. SEE KITCHEN CONSULTANT DRAWINGS FOR MORE DETAILS.
 - 3" EXHAUST AND INTAKE FLUES UP THROUGH ROOF. SEE SHEET M-202 FOR MORE DETAILS.
 - 4" EXHAUST AND INTAKE FLUES UP THROUGH ROOF. SEE SHEET M-202 FOR MORE DETAILS.
 - 14"x12" EXHAUST DUCT UP TO EF 14 ON ROOF. SEE SHEET M-202 FOR MORE DETAILS.
 - THERMOSTAT TO CONTROL EF V03 ON ROOF AND L V03. THERMOSTAT TO BE SET AT 86F.
 - 4" KILN EXHAUST UP THROUGH ROOF. TERMINATE WITH ROOF CAP WITH BACK DRAFT DAMPER AND BIRD SCREEN.
 - MOTORIZED LOUVER TO BE TIED INTO EXHAUST FAN V03. WHEN EXHAUST FAN TURNS ON LOUVER TO OPEN. LOUVER FAIL POSITION TO BE OPEN.



1 FIRST FLOOR - HVAC
M-101 1/8" = 1'-0"



2 FIRST FLOOR MECHANICAL PLAN - ELECTRICAL ROOM
M-101 1/8" = 1'-0"



KEY PLAN

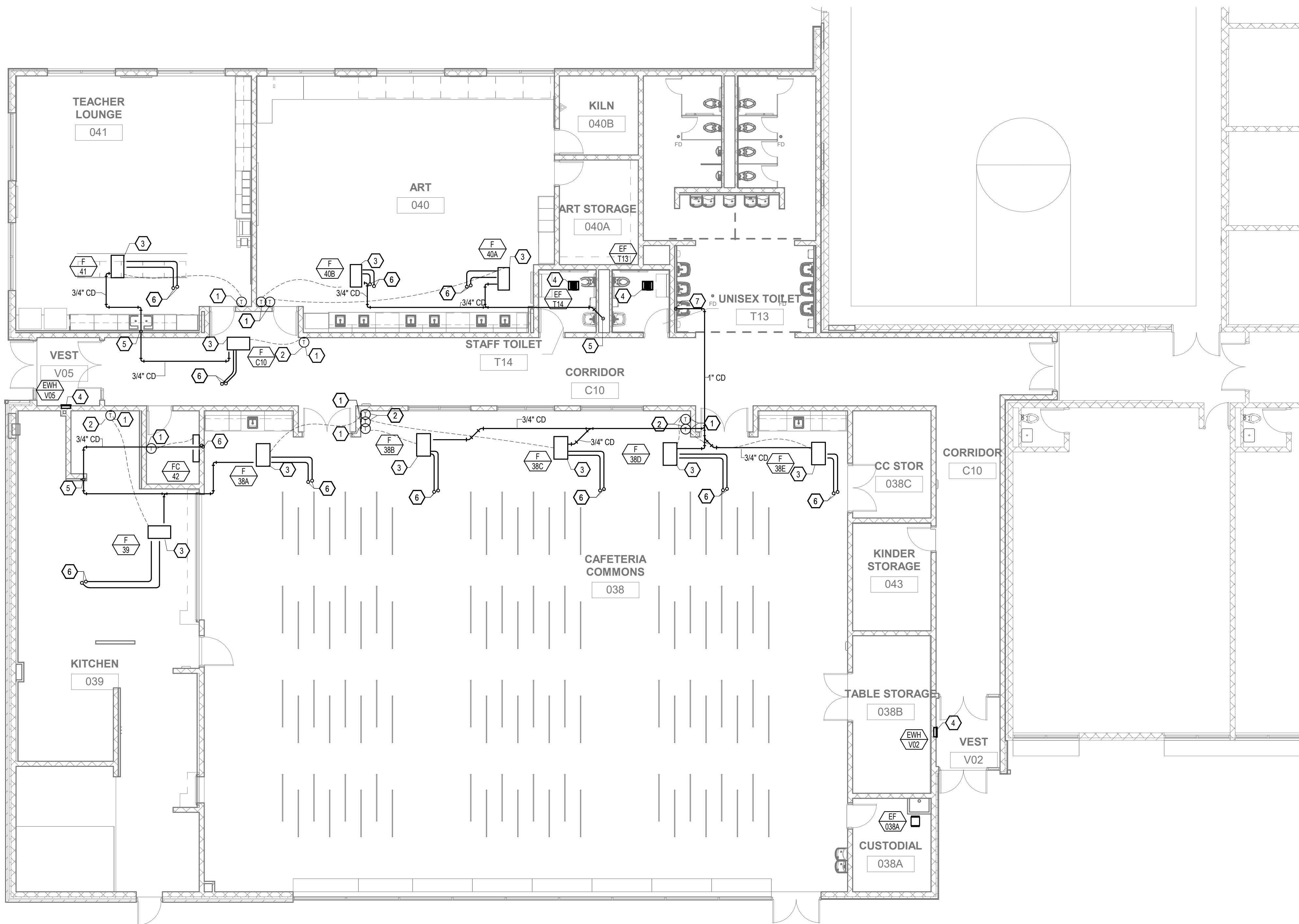
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

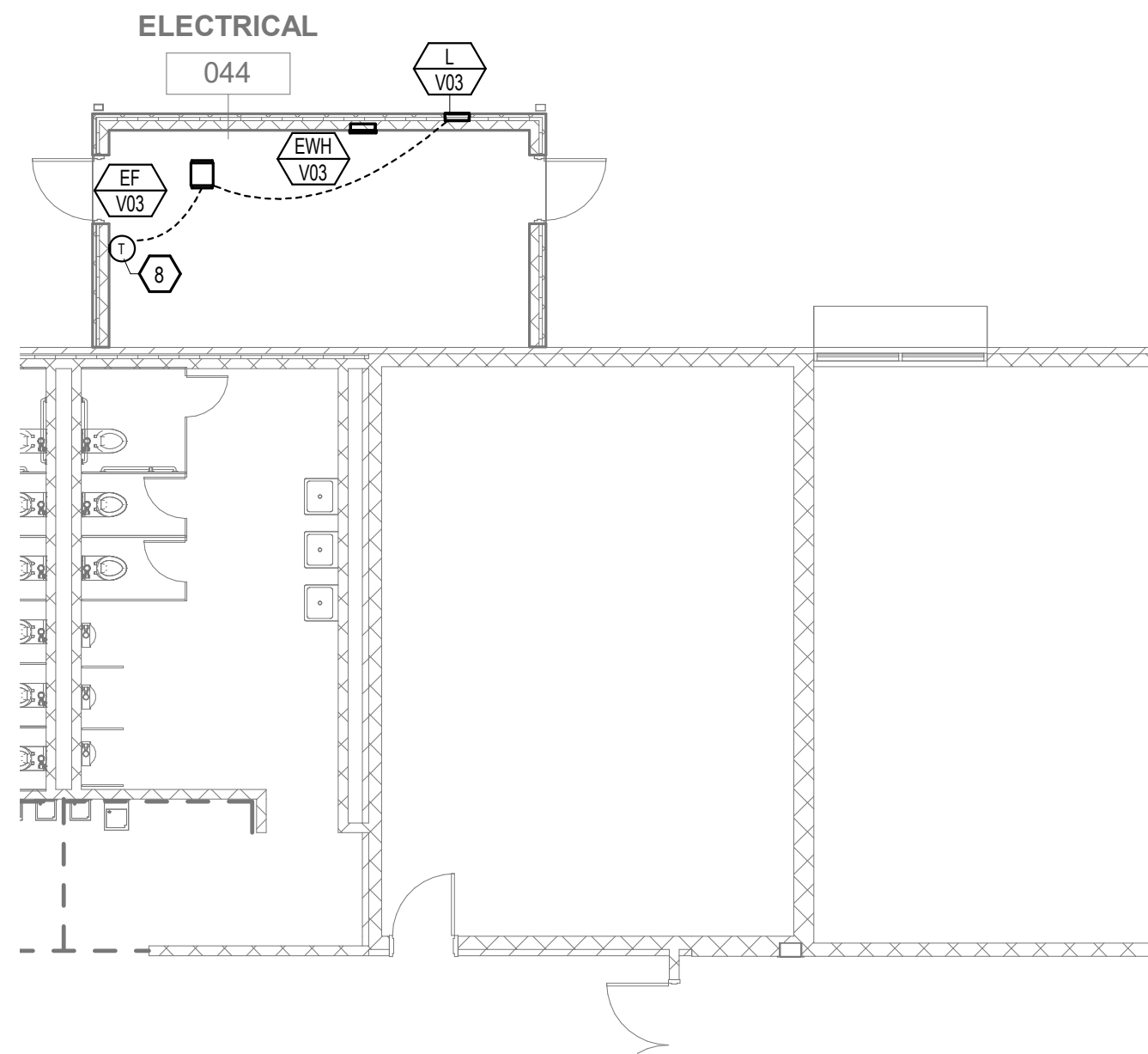
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FIRST FLOOR
MECHANICAL PLAN -
HVAC

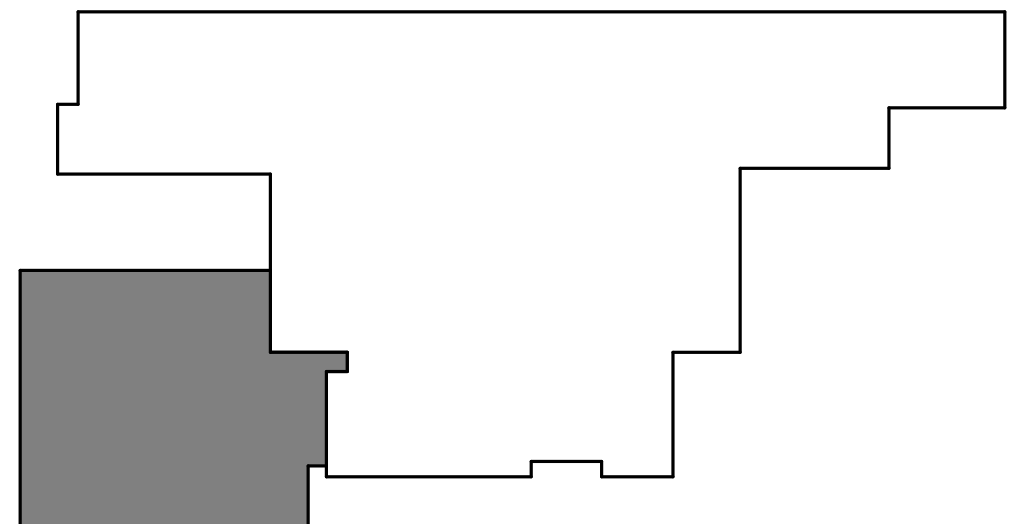
M-101
BID DOCUMENTS



1 FIRST FLOOR - CONTROLS
M-201 1/8" = 1'-0"



2 FIRST FLOOR MECHANICAL PLAN - ELECTRICAL ROOM- CONTROLS
M-201 1/8" = 1'-0"



KEY PLAN

- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
 - ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
 - REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.

- # KEYNOTES**
- NEW DDC THERMOSTATIC SENSOR AND DDC WIRING TO CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT.
 - PUBLIC SPACE THERMOSTAT TO HAVE LOCKABLE COVER OVER IT.
 - SEE CONTROL DRAWING M-303 FOR MORE DETAILS.
 - SEE CONTROL DRAWING M-302 FOR MORE DETAILS.
 - 3/4" CONDENSATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE.
 - REFRIGERANT LINES UP TO ROOF SEE SHEET M-202 FOR MORE DETAILS.
 - 3/4" CONDENSATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE.
 - THERMOSTAT TO CONTROL EF V03 ON ROOF AND L V03. THERMOSTAT TO BE SET AT 65F.

NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

www.russellco.com

CIVIL ENGINEER

RTM Engineering

5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.imegcorp.com

MED/PEP ENGINEER

RTM Engineering

5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

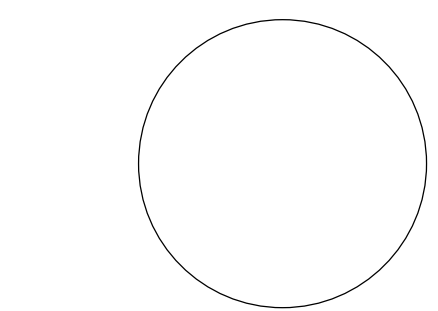
www.rtmec.com

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE

DATE

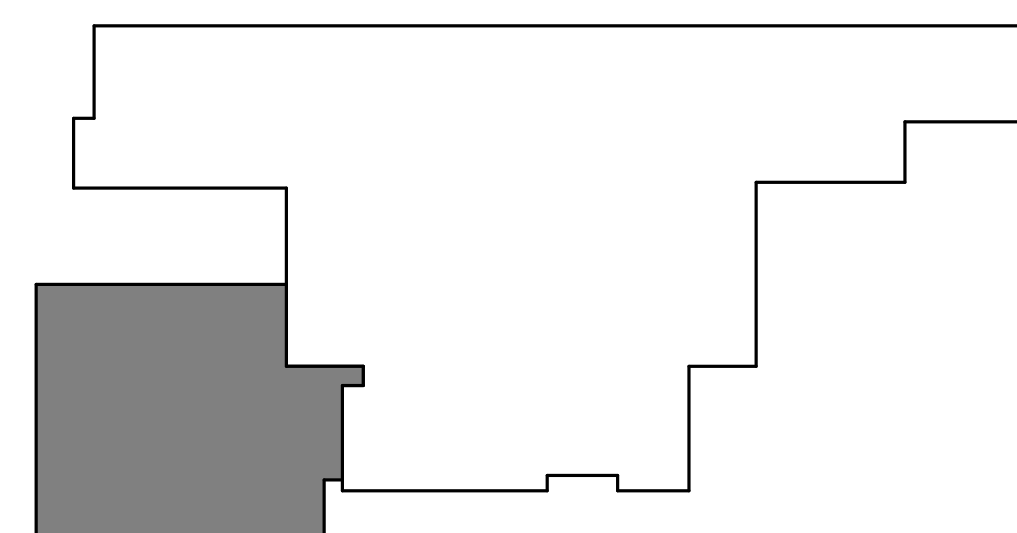
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FIRST FLOOR
MECHANICAL PLAN -
CONTROLS

M-201
BID DOCUMENTS



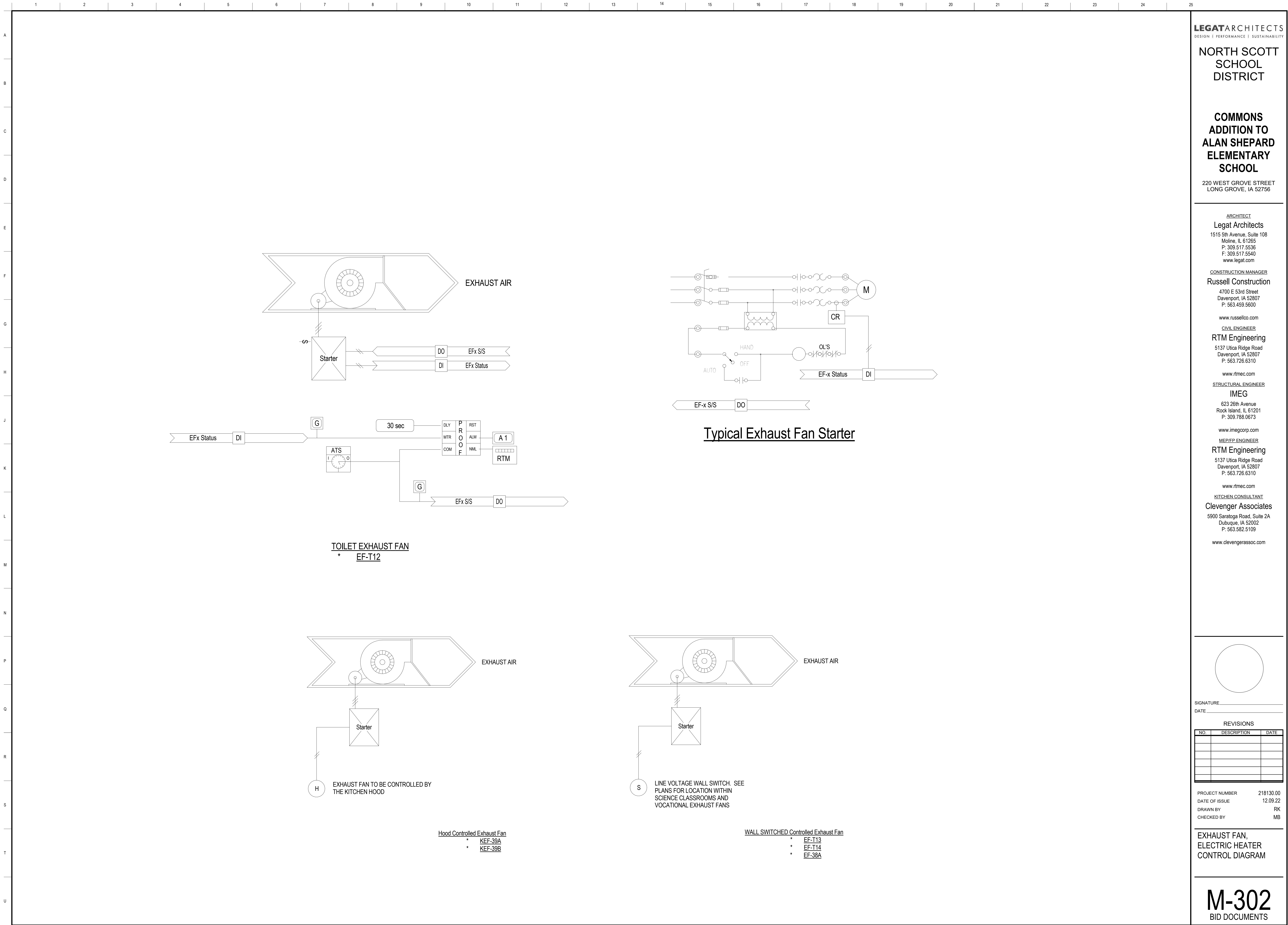
KEY PLAN

www.clevengerassoc.com

DATE _____

[illegible]

M-202
BID DOCUMENTS



NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

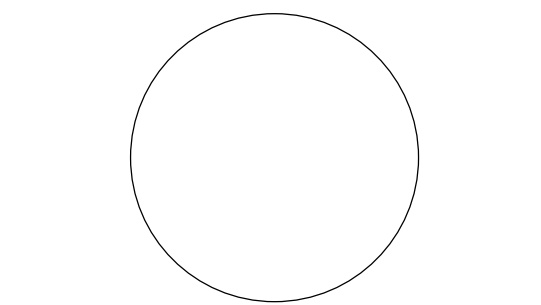
www.imegcorp.com

MEDICAL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

EXHAUST FAN,
ELECTRIC HEATER
CONTROL DIAGRAM

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

A

B

C

D

E

F

G

H

J

K

L

M

N

P

Q

R

S

T

U

RTU Single Zone make up air unit - Gas Heat and DX CoolingSequence of Operations

A. General: The air handler shall be fully controlled by the the kitchen hood panel, and monitored by the BAS. For details on the referenced logic strategies refer to item 3.2 Air Handling Units General Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include:

1. scheduled occupancy with optimum preoccupancy

2. night purge

3. sequenced heating and cooling

B. Space Temperature Setpoints: Three setpoints shall apply. Normal (72°F adj.), setback heating (65°F (adj.)), and setback cooling (85°F). These three values shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). During the normal periods, separate heating and cooling setpoints shall be calculated.

1. Normal space cooling setpoint: shall be the normal space temperature plus 2°F (adj.)

2. Normal space heating setpoint: shall be the normal space temperature minus 2°F (adj.)

3. The space temperature setpoints above shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input).

C. Discharge Air Setpoint: The discharge air setpoint will be reset by space temperature on a ratchet loop that increases and decreases the setpoint based upon variance from space temperature.

1. Heating: The discharge air temperature will be reset from 68°F (adj.) to a fixed maximum of 95°F (adj.) based upon the variance of space temperature from setpoint.

2. Cooling: The discharge air temperature will be reset from 68°F (adj.) to a fixed minimum of 55°F (adj.) based upon the variance of space temperature from setpoint.

3. The BAS shall shut down the RTU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 1 minute.

D. Supply Fan Enable: BAS shall control the fans as follows:

1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied and night purge modes.] Unit shall cycle on as needed during the night setback mode.

2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of either fan, the BAS shall enunciate an alarm as specified above.

E. Economizer Dampers: BAS shall control the dampers as follows:

1. Closed: When AH is deenergized, dampers shall remain in their "off" positions. When the unit is energized during the unoccupied period, the minimum damper position/ flow rate shall be 0% / cfm.

2. Minimum Damper Position (constant): During the occupied period, applicable RA and OA dampers shall never be positioned less than the position set for the required minimum OA ventilation rate. This minimum position shall be determined by the Test & Balance Contractor. The BAS contractor shall coordinate with the T&B contractor and input the minimum position into the applicable controller logic.

3. Inside Economizer: BAS shall modulate the mixing dampers to provide "free cooling" when conditions merit. The free cooling shall generally be staged before any mechanical cooling. While conditions merit, dampers shall be modulated in a PID loop to maintain the mixed air temperature at its setpoint. The mixed air temperature setpoint shall be equal to the discharge air temperature setpoint - 2°F. Economizer logic shall remain enabled during night purge where applicable. Economizer mode shall be active while the unit is energized AND outside air temperature falls below the switching setpoint of 70°F (adj.) (with 5°F cycle differential). Economizer mode shall be inactive when outside air temperature rises above switching setpoint, dampers shall return to their scheduled minimum positions as specified above.

F. Gas Heat:

1. The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpoint.

2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setpoint equal the discharge air temperature setpoint - 2°F.

G. DX Cooling:

1. The staging of the DX cooling system will be controlled locally by a integral control loop supplied with the RTU.

2. Or, the DX system will be controlled via a PID loop to maintain the discharge air temperature at the discharge temperature setpoint.

1. Run Time Limit.

2. DP Transmitter Filter Monitoring

MAKE UP AIR UNIT WITH INTEGRAL CONDENSER

	INPUTS										OUTPUTS				SYSTEM FEATURES						NOTES														
	ANALOG					DIGITAL					ANALOG		DIGITAL		ALARMS	MISCELLANEOUS																			
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIR FLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWITCH	CURRENT SWITCH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OTHER	MODULATING	SETPOINT	VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP	OPEN/CL	ON/OFF	OTHER	HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME	TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT
OUTSIDE AIR TEMPERATURE	X																													X	X		X		
OUTSIDE AIR HUMIDITY		X																												X	X		X		
OUTSIDE AIR DAMPER					X																									X	X		X		
EXTERIOR OUTSIDE INCOMING AIR DAMPER													X										X				X	X				X	X		1
BUILDING PRESSURE			X																						X	X				X			X		
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F											X															X	X		X				X		
COOLING COIL LEAVING TEMPERATURE SENSOR				X																					X	X		X		X			X		
HOT GAS RE HEAT COIL				X																					X	X		X		X			X		
SUPPLY FAN LOW PRESSURE STATIC PRESSURE SWITCH								X																	X	X					X	X		1	
SUPPLY FAN START/STOP																											X	X				X	X		3
SUPPLY FAN VFD																											X								
SUPPLY FAN VFD STATUS												X															X			X					
SUPPLY FAN VFD FAULT																											X								
SUPPLY FAN SPEED CONTROL																		X											X				X		
SUPPLY FAN HIGH PRESSURE STATIC PRESSURE SWITCH								X																		X	X					X	X		
SAFETY LOW LIMIT THERMOSTAT - 35 DEGREES F											X															X	X					X	X		
GAS HEAT BURNER LEAVING TEMPERATURE SENSOR				X																					X	X		X		X			X		
DISCHARGE AIR TEMPERATURE																									X	X		X					X		
DISCHARGE AIR HUMIDITY			X																						X	X		X					X		
DISCHARGE AIR DUCT DETECTOR														X												X	X				X	X		2	
SUPPLY AIR AIRFLOW																									X	X			X				X		
SUPPLY DUCT STATIC PRESSURE - RIBER AT LOWER LEVEL				X																					X	X			X				X		

NOTES:

1. THIS POINT SHALL BE HARDWIRED TO FAN SHUTDOWN.

2. SMOKE DETECTORS SHALL HAVE STAND ALONE RELAYS (HTR's) HARD WIRED TO BUILDING SIEMENS FIRE ALARM SYSTEM BY OTHERS. WHEN SMOKE DETECTORS ARE ENGAGED, THERE SIGNALS TO INITIATE THE SHUTDOWN FUNCTION OF THE AHU-027

3. PROVIDE A FULL BACNET CONNECTION TO EACH VFD. PROVIDE ALARM STATUS, OPERATING AMPS, HP, SPEED, ETC ON THE SYSTEM GRAPHIC

ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER UNIT.

GLOBAL O.A HUMIDITY

BUILDING PRESSURE

BUILDING O.A TEMPERATURE

DATA CONNECTION BAC net

SOAP

GENERAL NOTES:

1. GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGITAL INPUT POINTS.

2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.

3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.

4. GOLD CONTACT RELAYS FOR DI POINTS. PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL BE LOCATED WITHIN THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL TRANSFORMERS.

DATA CONNECTION BAC net

AO S.A. Speed Control

DI S.A. VFD Fault

DO S.A. Start/Stop

DI S.A. VFD Status

VFD

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

35°F Freezestat

Safety Interlock Set @35°F

HS2

Smoke Detector

Safety Interlock

SD1

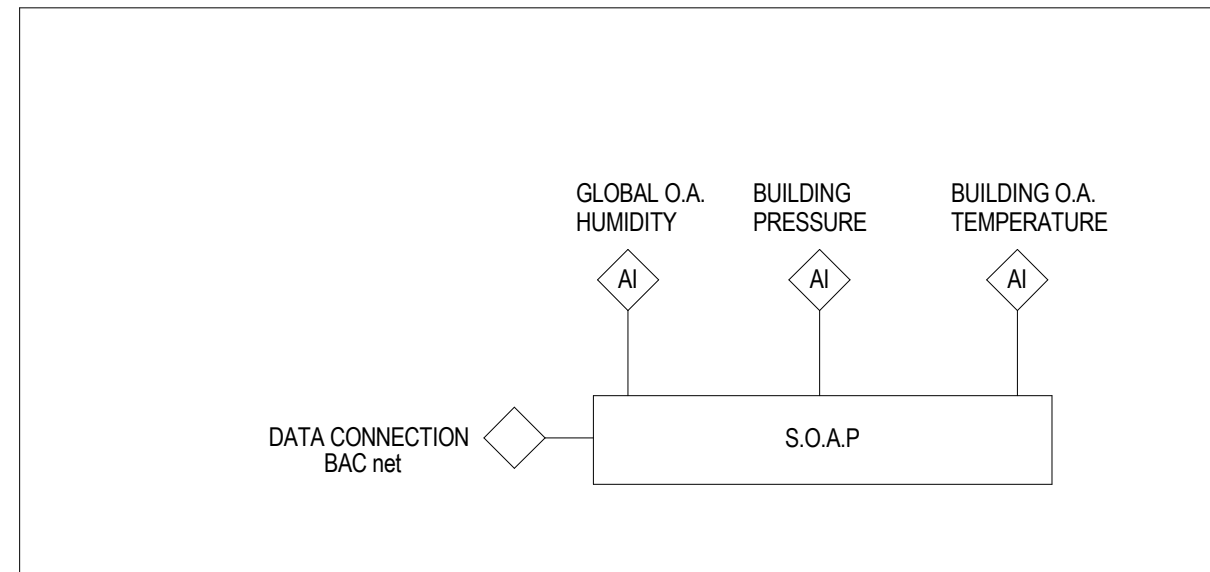
35°F Free

RTU Single Zone Air Handling Unit - Gas Heat and DX Cooling Sequence of Operations

- A. General: The air handler shall be fully controlled by local thermostat and monitored by the BAS. For details on the referenced logic strategies refer to item 3.2 Air Handling Units General: Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include:
- scheduled occupancy with optimum preoccupancy
2. sequenced heating and cooling.
- B. Space Temperature Setpoints: Three setpoints shall apply. Normal (72°F adj.), setback heating (65°F adj.), and setback cooling (85°F). These three values shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). During the normal periods, separate heating and cooling setpoints shall be calculated.
- Normal space cooling setpoint: shall be the normal space temperature plus 2°F (adj.)
2. Normal space heating setpoint: shall be the normal space temperature minus 2°F (adj.)
3. The space temperature setpoints above shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input).
- C. Discharge Air Setpoint: The discharge air setpoint will be reset by space temperature on a ratchet loop that increases and decreases the setpoint based upon variance from space temperature.
- Heating: The discharge air temperature will be reset from 68°F (adj.) to a fixed maximum of 95°F (adj.) based upon the variance of space temperature from setpoint.
 - Cooling: The discharge air temperature will be reset from 68°F (adj.) to a fixed minimum of 55°F (adj.) based upon the variance of space temperature from setpoint.
3. The BAS shall shut down the AHU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 1 minute.
- D. Supply Fan Enable: BAS shall control the fans as follows:
- Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied. Unit shall cycle on as needed during the night setback mode.
2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of either fan, the BAS shall enunciate an alarm as specified above.
- E. Economizer Dampers: BAS shall control the dampers as follows:
- Close: When AHU is deenergized, dampers shall remain in their "off" positions. When the unit is energized during the unoccupied period, the minimum damper position flow rate shall be 0% / 6cfm.
2. Minimum Damper Position (constant): During the occupied period, applicable RA and OA dampers shall never be positioned less than the position set for the required minimum OA ventilation rate. This minimum position shall be determined by the Test & Balance Contractor. The BAS contractor shall coordinate with the T&B contractor and input the minimum position into the applicable controller logic.
3. Airside Economizer: BAS shall modulate the mixing dampers to provide "free cooling" when conditions merit. The free cooling shall generally be staged before any mechanical cooling. While conditions merit, dampers shall be modulated in a PID loop to maintain the mixed air temperature at its setpoint. The mixed air temperature setpoint shall be equal to the discharge air temperature setpoint - 2°F. Economizer logic shall remain enabled during night purge where applicable. Economizer mode shall be active while the unit is energized AND outside air temperature falls below the switching setpoint of 70°F (adj.) (with 5°F cycle differential). Economizer mode shall be inactive when outside air temperature rises above switching setpoint, dampers shall return to their scheduled minimum positions as specified above.
- F. Gas Heat:
- The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpoint.
2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setpoint equal the discharge air temperature setpoint - 2°F.
- G. DX Cooling:
- The staging of the DX cooling system will be controlled locally by a integral control loop supplied with the RTU.
2. Or, the DX system will be controlled via a PID loop to maintain the discharge air temperature at the discharge temperature setpoint.
- H. Diagnostics: BAS execute the following diagnostic strategies as detailed in item 3.2 Air Handling Units General: Diagnostics. Diagnostic Logic strategies shall include:
- Run Time Limit
2. DP Transmitter Filter Monitoring

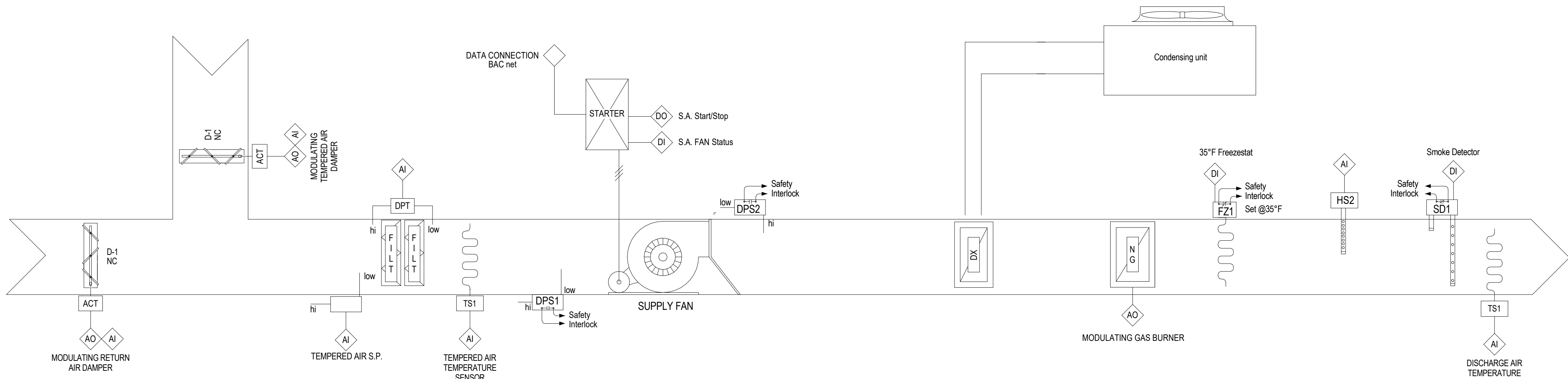
GAS FIRED FURNACE WITH A-COIL COOL AND REMOTE CONDENSING UNIT																								
		INPUTS										OUTPUTS					SYSTEM FEATURES							
		ANALOG		DIGITAL		DIGITAL						ANALOG		DIGITAL		ALARMS		MODULATORS						
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG	DIGITAL	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS	RELAY CONTACTS
TEMPERATURE SENSORS	SAFETY SENSORS	ANALOG																						

ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER UNIT.



GENERAL NOTES:

- GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGITAL INPUT POINTS.
- PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
- OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
- GOLD CONTACT RELAYS FOR DI POINTS, PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL BE LOCATED WITHIN THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL TRANSFORMERS.



GAS FIRED FURNACE WITH A-COIL AND REMOTE CONDENSING UNIT

NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

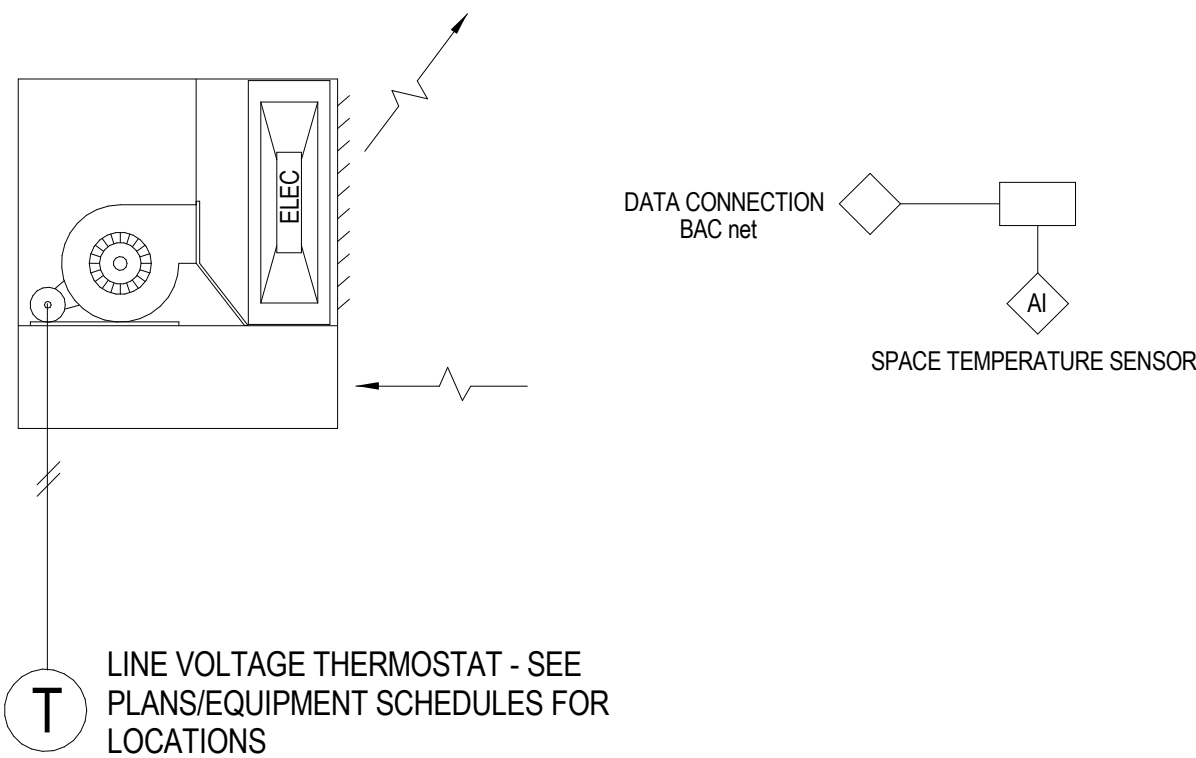
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

FURNACE AND
CONDENSING UNIT
CONTROL DIAGRAM

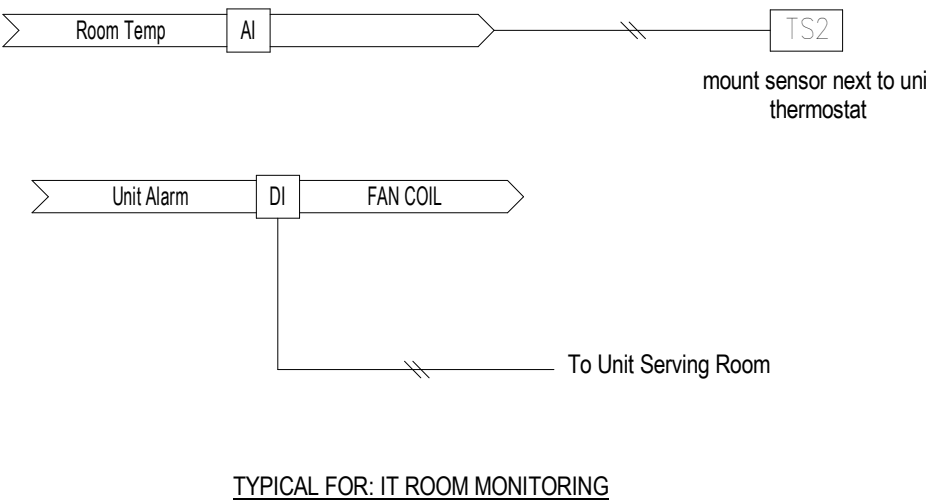
CONTROL POINT SUMMARY FOR HEATER (TYPICAL)																		
CONTROL POINTS	DDC HARD WIRED POINTS		BAS APPLICATION			ALARMING SCENARIOS		ALARM PRIORITIES		NOTES								
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE		OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL
ZONE SPACE TEMPERATURE		x		x						x					x			
ZONE SPACE TEMPERATURE SET POINT			x	x											x			
NOTES:																		



ELECTRIC HEATER CONTROL DIAGRAM

- 1.1 UNIT HEATER - ELECTRIC
- A. GENERAL: A UNIT MOUNTED THERMOSTAT WILL CYCLE THE FAN TO MAINTAIN AN ADJUSTABLE SPACE TEMPERATURE SETPOINT.
- B. MONITORING TO BAS THROUGH A REMOTE DDC SENSOR AS INTEGRATION WILL BE DIFFICULT.

CONTROL POINT SUMMARY FOR MDF SPLIT SYSTEM UNIT (TYPICAL)																			
CONTROL POINTS	DDC HARD WIRED POINTS		BAS APPLICATION				ALARMING SCENARIOS		ALARM PRIORITIES		NOTES								
	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE		POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	
		x	x							x							x		
		x	x							x							x		
ZONE SPACE TEMPERATURE																			
ZONE SPACE TEMPERATURE SET POINT																			
NOTES:																			



TYPICAL FOR IT ROOM MONITORING

MDF - SPLIT SYSTEM DIAGRAM

- GENERAL NOTES:
- THERMOSTATIC SENSOR TIED INTO BAS FOR ROOM TEMPERATURE MONITORING.
 - ALARM TO BE ENGAGED WHEN ROOM TEMPERATURE EXCEEDS 85F

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

CIVIL ENGINEER

RTM Engineering

5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER

RTM Engineering

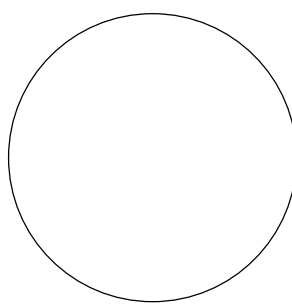
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



SIGNATURE

DATE

REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

ELECTRICAL HEATER AND MINI SPLIT CONTROL DIAGRAM

WEATHER CAP SCHEDULE						
TAG	LOCATION	DUCT DIAMETER	CFM	WEIGHT (LBS)	MANUFACTURER	MODEL NO.
CAP 1	ROOF	6"	70	7	GREENHECK	GRSR-8

- REMARKS:
1. PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN AT CONNECTION TO CAP.
 2. FLASH CAP 12" CURB ON ROOF.
 3. CAP TO HAVE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.

EXHAUST FAN SCHEDULE															
TAG	TYPE	SERVICE	CFM	E.S.P. (IN. W.C.)				MOTOR DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
				HP	RPM	V	PH	HZ							
EF 038A	EXHAUST FAN	ELECTRICAL V03	100	0.10	0.01	950	120	1	60	16	GREENHECK	CSP-A110			1-4.7
KEF 39A	EXHAUST FAN	KITCHEN 39	1280	0.21	0.25	0	120	1	60	61	GREENHECK	CUE-140-VG			3-7.8
KEF 39B	EXHAUST FAN	KITCHEN 39	1280	0.21	0.25	0	120	1	60	61	GREENHECK	CUE-140-VG			3-7.8
EF T12	EXHAUST FAN	TOILET T12	400	0.20	0.04	1050	120	1	60	29	GREENHECK	G-090-G			1-3.5,5.7
EF T13	EXHAUST FAN	TOILET T13	70	0.25	0.01	838	120	1	60	12	GREENHECK	SP-A50-90-VG			1-5
EF T14	EXHAUST FAN	TOILET T13	70	0.25	0.01	838	120	1	60	12	GREENHECK	SP-A50-90-VG			1-5
EF V03	EXHAUST FAN	ELECTRICAL V03	100	0.10	0.01	950	120	1	60	16	GREENHECK	CSP-A110			1-3.7,9,10

- REMARKS:
1. PROVIDE FAN WITH MOTOR STARTER, AND, BACKDRAFT DAMPER.
 2. EXHAUST FAN TO BE TIED INTO BAS SYSTEM.
 3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS FOR EQUIPMENT.
 4. EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH IN ROOM.
 5. ROOF CURB TO BE A MINIMUM OF 24" PREMANUFACTURED, NON PREMANUFACTURED WILL BE ACCEPTED AS LONG AS IT HAS INSULATION TO MEET LOCAL ENERGY CODES.
 6. EXHAUST FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS.
 7. MECHANICAL CONTRACTOR TO PROVIDE MOTOR STARTER.
 8. EXHAUST FAN TO BE TIED INTO KITCHEN HOOD, WHEN SWITCH ENGAGES FOR HOOD, EXHAUST FAN TURNS ON.
 9. EXHAUST FAN TO BE CONTROLLED BY THERMOSTAT IN ROOM, THERMOSTAT TO BE SET FOR 85F.
 10. EXHAUST FAN TO CONTROL LOUVER V03 WHEN EXHAUST FAN TURNS ON LOUVER TO OPEN.

MINI SPLIT INDOOR UNIT SCHEDULE														
TAG	ASSOCIATED OUTDOOR UNIT	LOCATION	COOLING CAP.		FAN/MOTOR DATA		ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
			GROSS (MBH)	SENSIBLE (MBH)	SUPPLY SA (CFM)	MCA	MOCP	VOLTS	PH	HZ				
FC 42	CU 42	IDF 42	36	34	810	1.0	15	208	1	60	46	TRANE	TPKA-A36KA7	ALL

- REMARKS:
1. MOUNT INDOOR UNIT 12" BELOW CEILING STRUCTURE WITH CEILING EXPOSED KIT MATCHING UNIT COLOR. PROVIDE WITH MOUNTING BRACKET/SUPPORTS AS NEEDED.
 2. PROVIDE LOW AMBIENT ACCESSORY ON AIR COOLED CONDENSER.
 3. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.
 4. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
 5. PROVIDE LIQUID AND GAS SIDE PIPING PER MANUFACTURER'S RECOMMENDATIONS WITH 1/2" FOAM INSULATION.
 6. LOW AMBIENT OPERATION TO -10 DEG F.
 7. INDOOR UNIT POWERED OFF OUTDOOR UNIT.

MINI SPLIT CONDENSING UNIT SCHEDULE														
TAG	LOCATION	REFRIGERANT DATA		SEER/EER	COOLING DATA		ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
		CHARGE (LBS)	TYPE		CAPACITY (MBH)	SECTION 1	MCA	MOCP	VOLTS	PH				
CU 42	ROOF	7	R-410A	18.8/10.8	36	25.0	30.0	208	1	60	211	DAIKIN	PY-A36KN7	ALL

- REMARKS:
1. PROVIDE LOW AMBIENT ACCESSORY ON AIR COOLED CONDENSER.
 2. ELECTRICAL CONTRACTOR TO PROVIDE NEMA RATED DISCONNECT SWITCH.
 3. MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES.
 4. PROVIDE LIQUID AND GAS SIDE PIPING PER MANUFACTURER'S RECOMMENDATIONS WITH 1/2" FOAM INSULATION.
 5. LOW AMBIENT OPERATION TO -10 DEG F.
 6. INDOOR UNIT POWERED OFF OUTDOOR UNIT.
 7. UNIT TO BE MOUNTED ON ROOF PER MANUFACTURER'S INSTRUCTION. PROVIDE MOUNTING PAD, RAILS, OR 24" CURB.

GRILLE, REGISTERS, AND DIFFUSER SCHEDULE										
TAG	AIR STREAM	MOUNTING TYPE	DIA.	INLET SIZE (IN)		FRAME SIZE		MANUFACTURER	MODEL NO.	REMARKS
				HEIGHT	WIDTH	HEIGHT	WIDTH			
A	SUPPLY	CEILING	6"			2'-0"	2'-0"	TITUS	OMNI	1-5
B	SUPPLY	CEILING	8"			2'-0"	2'-0"	TITUS	OMNI	1-5
C	RETURN	CEILING	6"			2'-0"	2'-0"	TITUS	PAR	2-4.6
D	RETURN	CEILING	10"			2'-0"	2'-0"	TITUS	PAR	2-4.6
E	RETURN	CEILING	8"			2'-0"	2'-0"	TITUS	PAR	2-4.6
F	EXHAUST	CEILING	10"			2'-0"	2'-0"	TITUS	PAR	2-4.5
G	SUPPLY	DUCT		4"	18"	0'-5 1/2"	1'-7 1/2"	TITUS	S-DL	1-5
H	SUPPLY	DUCT		4"	12"	0'-5 1/2"	1'-1 1/2"	TITUS	S-DL	1-5
I	SUPPLY	DUCT		8"	8"	0'-9 1/2"	0'-9 1/2"	TITUS	301FL	1-5
J	EXHAUST	DUCT		8"	8"	0'-9 1/2"	0'-9 1/2"	TITUS	359AL	2-4
K	SUPPLY	DUCT		14"	14"	1'-3 1/2"	1'-3 1/2"	TITUS	301FL	1-5

- REMARKS:
1. 4-WAY THROW UNLESS OTHERWISE NOTED.
 2. PROVIDE ADAPTOR BOOTS AS REQUIRED.
 3. PROVIDE WITH MANUAL VOLUME BALANCE DAMPER.
 4. COORDINATE FRAME STYLES WITH ARCHITECTURAL PLANS.
 5. REFER TO PLAN FOR FACE AND DUCT SIZING.
 6. RETURN GRILLE TO HAVE LINED ELBOW BOOT FOR PLENUM RETURN SOUND ATTENUATION.

LOUVER SCHEDULE									
TAG	AIR STREAM	STYLE	FLOW RATE (CFM)	FACE VELOCITY (FPM)	FREE AREA (SF)	WIDTH (IN.)	HEIGHT (IN.)	MANUFACTURER	MODEL NO.
L V03	INTAKE	COMBINATION	100	570	0.40	14	14	GREENHECK	ESD-635-14X14

- REMARKS:
1. LOUVER TO BE UL LISTED
 2. LOUVER TO BE CONTROLLED BY EXHAUST FAN. LOUVER TO OPEN WHEN FAN TURNS ON.

GAS FIRED/ DIRECT EXPANSION MAKEUP AIR UNIT SCHEDULE (MAU)																																			
TAG	LOCATION	SERVICE	REFRIGERANT DATA		SEER/EER/IEER	DESIGN AIR TEMPERATURES			COOLING CAPACITY							HEATING CAPACITY							FILTERS		ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS		
			TYPE	CHARGE (LBS)		SUMMER DB°F	WINTER WB°F	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	COMPRESSOR QTY	INPUT (MBH)	OUTPUT (MBH)	EAT (DB°F)	EAT (WB°F)	AFUE %	SA CFM	HP	RPM	E.S.P. (IN.W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH					HZ	
MAU 39	ROOF	KITCHEN HOOD	R-410A	46	-11.5/-	92	75	-7	183	102	92	75	50	50	2	216	200	-7	90	92	2100	2	1208	1.50	MERV 8	2	83	110	208	3	60	2911	TRANE	OAG210E3	ALL

- REMARKS:
1. 1 YEAR PARTS WARRANTY.
 2. 10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY.
 3. PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL.
 4. HOT GAS REHEAT REQUIRED.
 5. FULL ENTHALPY ECONOMIZER.
 6. PROVIDE UNIT POWERED 115V GFI RECEPTACLE.
 7. MAU TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH.
 8. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. BIDDING CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.

GAS FIRED/ DIRECT EXPANSION DEDICATED OUTDOOR AIR UNIT SCHEDULE (DOAS)																																			
TAG	LOCATION	REFRIGERANT DATA		DESIGN AIR TEMPERATURES			COOLING CAPACITY						HEATING CAPACITY						FAN/MOTOR DATA						FILTERS		ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
		TYPE	REFRIGERANT CHARGE (LBS)	SUMMER DB°F	WINTER DB°F	GROSS (MBH)	SENSIBLE (MBH)	EAT (DB°F)	EAT (WB°F)	LAT (DB°F)	LAT (WB°F)	INPUT (MBH)	OUTPUT (MBH)	EAT (DB°F)	EAT (WB°F)	AFUE %	SA CFM	HP	RPM	E.S.P. (IN.W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ								
																												FINAL	FINAL						
DOAS 1	ROOF	R-410A	50.7	95	76	-10	245	1335	95	76	52	52	400	320	-10	78	80	3000	2	1609	1.34 in.wg	MERV 8	2	84	110	208	3	60	3523	TRANE	CADG020C1	ALL			

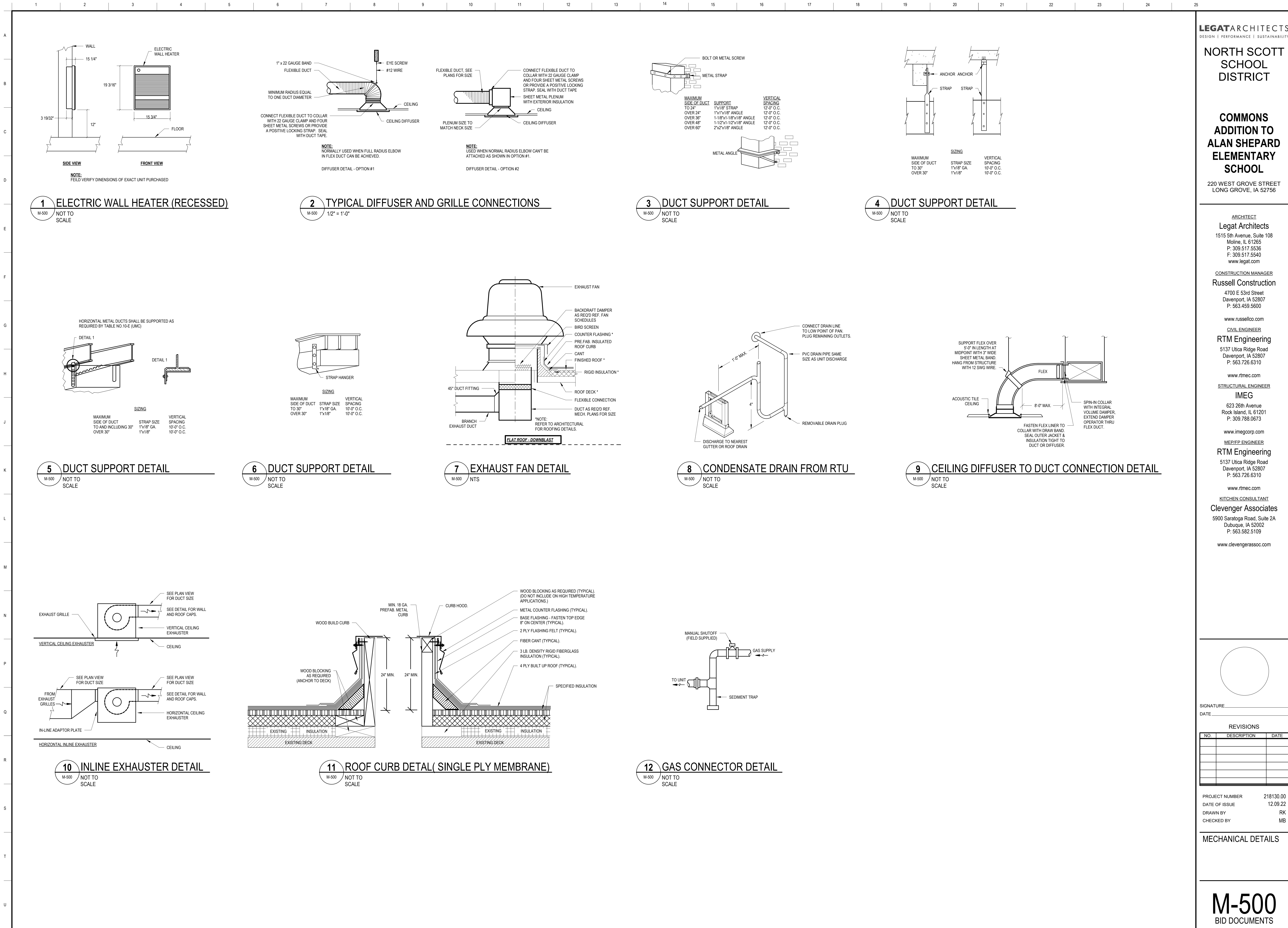
- REMARKS:
1. PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL.
 2. HOT GAS REHEAT REQUIRED.
 3. DUCT MOUNTED HUMIDITY SENSOR.
 4. MODULATING GAS HEAT 10:1 TURN DOWN MINIMUM.
 5. PROVIDE UNIT POWERED 115V GFI RECEPTACLE.
 6. 1 YEAR PARTS WARRANTY.
 7. 5 YEAR TOTAL COMPRESSOR WARRANTY.
 8. 10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY.
 9. DOAS TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH.
 10. ROOF CURB TO BE A MINIMUM OF 24".

UMC 2015 SCHEDULE															
ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	OCCUPANCY CLASSIFICATION	DEFAULT OCCUPANCY (#/1000 SF)	PEOPLE	UMC 2015 REQUIREMENTS				ACTUAL				EQUIPMENT	
						OA (CFM/PERSON)	OA (CFM/SF)	OA (CFM)	EA (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN	
038	CAFETERIA COMMONS	4974 SF	CAFETERIA	100	120	7.5	0.18	1795	0	9300 CFM	1800	0 CFM	F 38A,B,C,D,E	-	-
038A	CUSTODIAL	119 SF	STORAGE ROOMS	0	0	0	0.12	14	0	75 CFM	15	0 CFM	F 38E	-	-
038B	TABLE STORAGE	201 SF	STORAGE ROOMS	0	0	0	0.12	24	0	125 CFM	25	0 CFM	F 38E	-	-
038C	CC-STOR	137 SF	STORAGE ROOMS	0	0	0	0.12	16	0	90 CFM	18	0 CFM	F 38E	-	-
039	KITCHEN	1307 SF	KITCHENS (COOKING)	20	8	7.5	0.12	217	0	1500 CFM	2330	0 CFM	F39, MAU 39	-	-
040	ART	1198 SF	ART CLASSROOM	20	22	10	0.18	436	0	2400 CFM	440	0 CFM	F40A,B, MAU 40	-	-
040A	ART STORAGE	134 SF	STORAGE ROOMS	0	0	0	0.12	16	0	100 CFM	20	0 CFM	F 40B	-	-
040B	KILN	101 SF	STORAGE ROOMS	0	0	0	0.12	12	0	100 CFM	15	0 CFM	F40B	-	-
041	TEACHER LOUNGE	734 SF	OFFICE SPACES	5	10	5	0.06	94	0	1000 CFM	200	0 CFM	F 41	-	-
042	IDF	63 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	FC 42	-	-
043	KINDER STORAGE	138 SF	STORAGE ROOMS	0	0	0	0.12	17	0	100 CFM	20	0 CFM	F 38E	-	-
C10-1	CORRIDOR-1	1437 SF	CORRIDORS	0	0	0	0.06	86	0	725 CFM	145	0 CFM	F C10	-	-
T10	HANDWASH	203 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	0	125 CFM	25	0 CFM	F C10	-	-
T11	GIRLS	200 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	280	150 CFM	30	300 CFM	F C10	EF EX-137	-
T12	BOYS	209 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	280	150 CFM	30	300 CFM	F C10	EF EX-137	-
T13	UNISEX TOILET	59 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	75 CFM	F C10	EF XE-132	-
T14	STAFF TOILET	59 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	75 CFM	F C10	EF XE-133	-
V05	VEST	72 SF	VESTIBULE	0	0	0	0.00	0	0	0 CFM	0	0 CFM	EVH V05	-	-
TOTALS		11344 SF			160		2728			15940 CFM	5113	750 CFM			

ELECTRIC WALL HEATER										
TAG	LOCATION	MOUNTING TYPE	AIRFLOW (CFM)	HEATING CAPACITY (KW)	ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER
					AMPS	VOLTS	PH	HZ		
EVH V02	VESTIBULE V02	RECESSED	160	1.5	7.6	208	1	60	24	INDECO
EVH V03	ELECTRICAL V03	RECESSED	160	2.0	10.0	208	1	60	24	INDECO
EVH V05	VESTIBULE V05	RECESSED	160	1.5	7.6	208	1	60	24	INDECO

- REMARKS:
1. PROVIDE INTERNAL THERMOSTAT.
 2. COLOR TO BE DETERMINED AND APPROVED BY AOR.
 3. CABINET HEATER TO BE WALL RECESSED MOUNTED.
 4. UNITS TO BE TIED INTO BAS SYSTEM FOR MONITORING.

GAS FURNACE SCHEDULE																
TAG	LOCATION	AIRFLOW		HEATING CAPACITY		ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS			
		SUPPLY (CFM)	OUTSIDE AIR (CFM)	FUEL TYPE	INPUT (MBH)	OUTPUT (MBH)	HP	MCA	MOCp					VOLTS	PHASE	HZ
F 35A	CAFETERIA COMMONS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	148	TRANS	SSX1C080U4PS8A	ALL
F 36B	CAFETERIA COMMONS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	148	TRANS	SSX1C080U4PS8A	ALL
F 36C	CAFETERIA COMMONS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	148	TRANS	SSX1C080U4PS8A	ALL
F 36D	CAFETERIA COMMONS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	148	TRANS	SSX1C080U4PS8A	ALL
F 36E	CAFETERIA COMMONS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	148	TRANS	SSX1C080U4PS8A	ALL
F 36F	KITCHEN 39	200	100	NG	17.60	17.60	1	14.10	15	120	1	60	122	TRANS	SSX1C080U4PS8A	ALL
F 40A	ART 40	1300	220	NG	39.00	37.80	0.75	11.30	15	120	1	60	122	TRANS	SSX2B06U4PS8A	ALL
F 40B	ART 40	1300	220	NG	39.00	37.80	0.75	11.30	15	120	1	60	122	TRANS	SSX2B06U4PS8A	ALL
F 41	TEACHING CHANGE #1	200	100	NG	17.60	17.60	1	14.10	15	120	1	60	122	TRANS	SSX1C080U4PS8A	ALL
F C10	CORRIDOR 40	1300	220	NG	39.00	37.80	1	14.10	15	120	1	60	122	TRANS	SSX1C080U4PS8A	ALL



NORTH SCOTT
SCHOOL
DISTRICT

COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

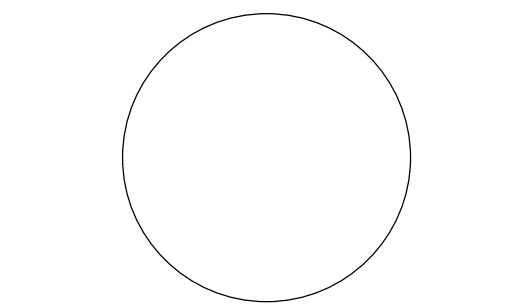
CIVIL ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEDIA ENGINEER
RTM Engineering
5137 Ulrica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



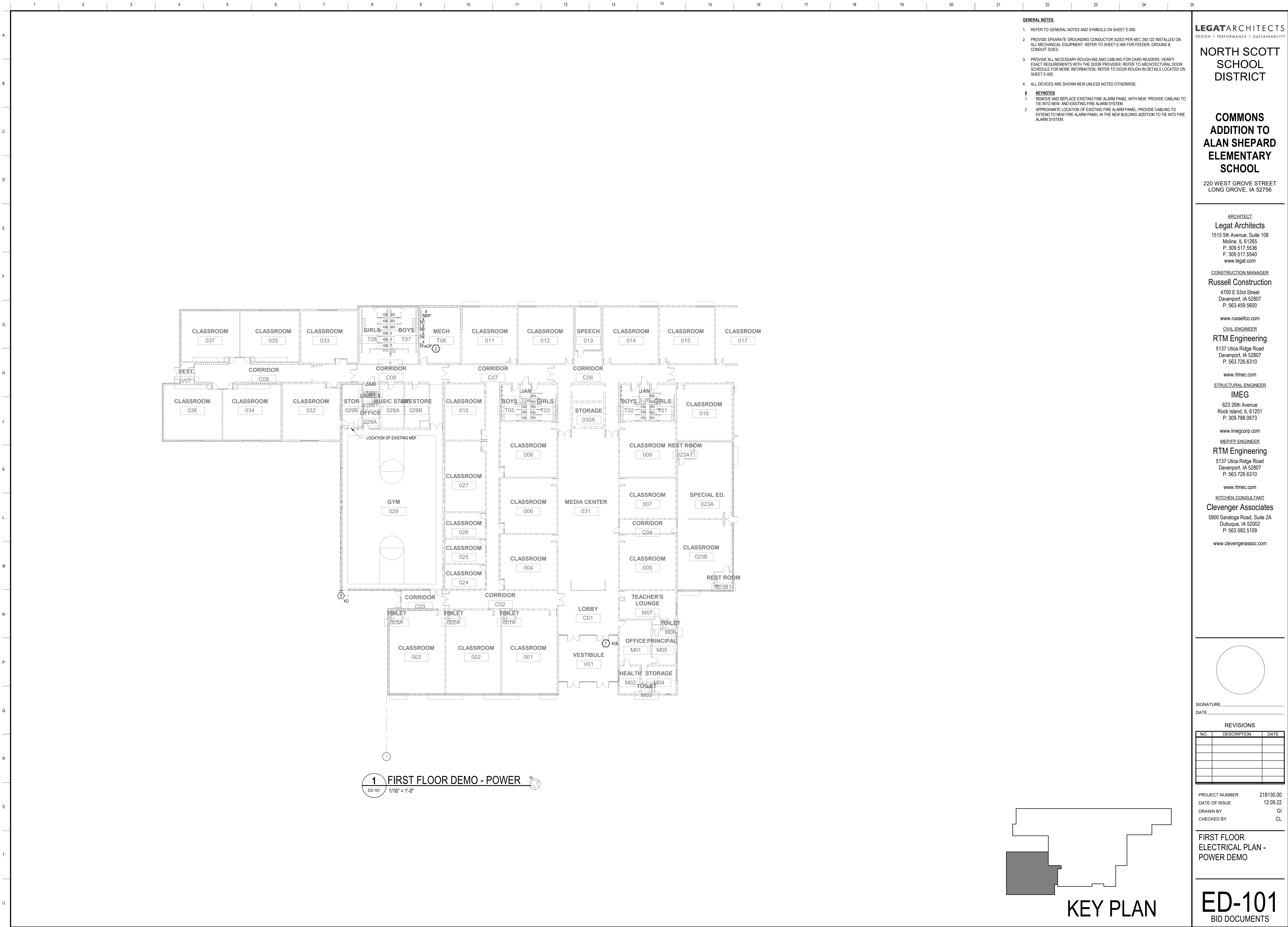
SIGNATURE
DATE

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY RK
CHECKED BY MB

MECHANICAL DETAILS

M-500
BID DOCUMENTS



- GENERAL NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 - PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-400 FOR FEEDER, GROUND & CONDUIT SIZES.
 - PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 - ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
- # KEYNOTES**
- REMOVE AND REPLACE EXISTING FIRE ALARM PANEL WITH NEW. PROVIDE CABLING TO TIE INTO NEW AND EXISTING FIRE ALARM SYSTEM.
 - APPROXIMATE LOCATION OF EXISTING FIRE ALARM PANEL. PROVIDE CABLING TO EXTEND TO NEW FIRE ALARM PANEL IN THE NEW BUILDING ADDITION TO TIE INTO FIRE ALARM SYSTEM.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEDICAL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CL

FIRST FLOOR
ELECTRICAL PLAN -
POWER DEMO

ED-101

BID DOCUMENTS



- GENERAL NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 2. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-400 FOR FEEDER, GROUND & CONDUIT SIZES.
 3. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

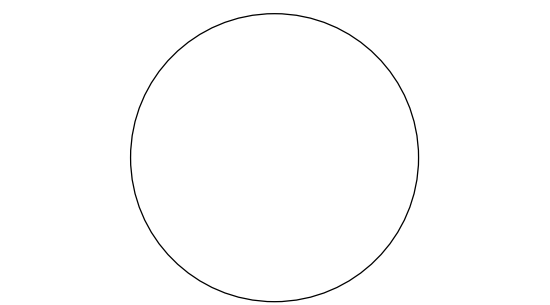
CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MED/PEP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



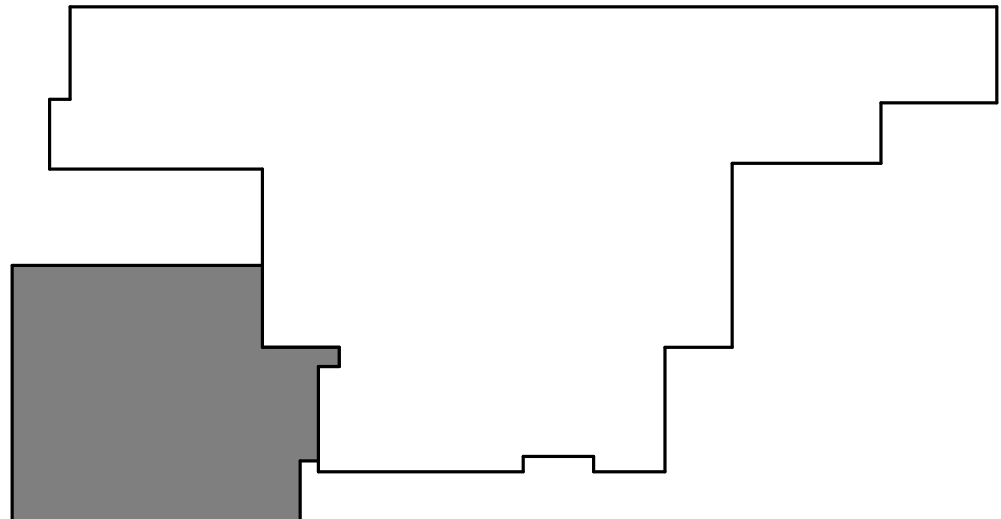
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

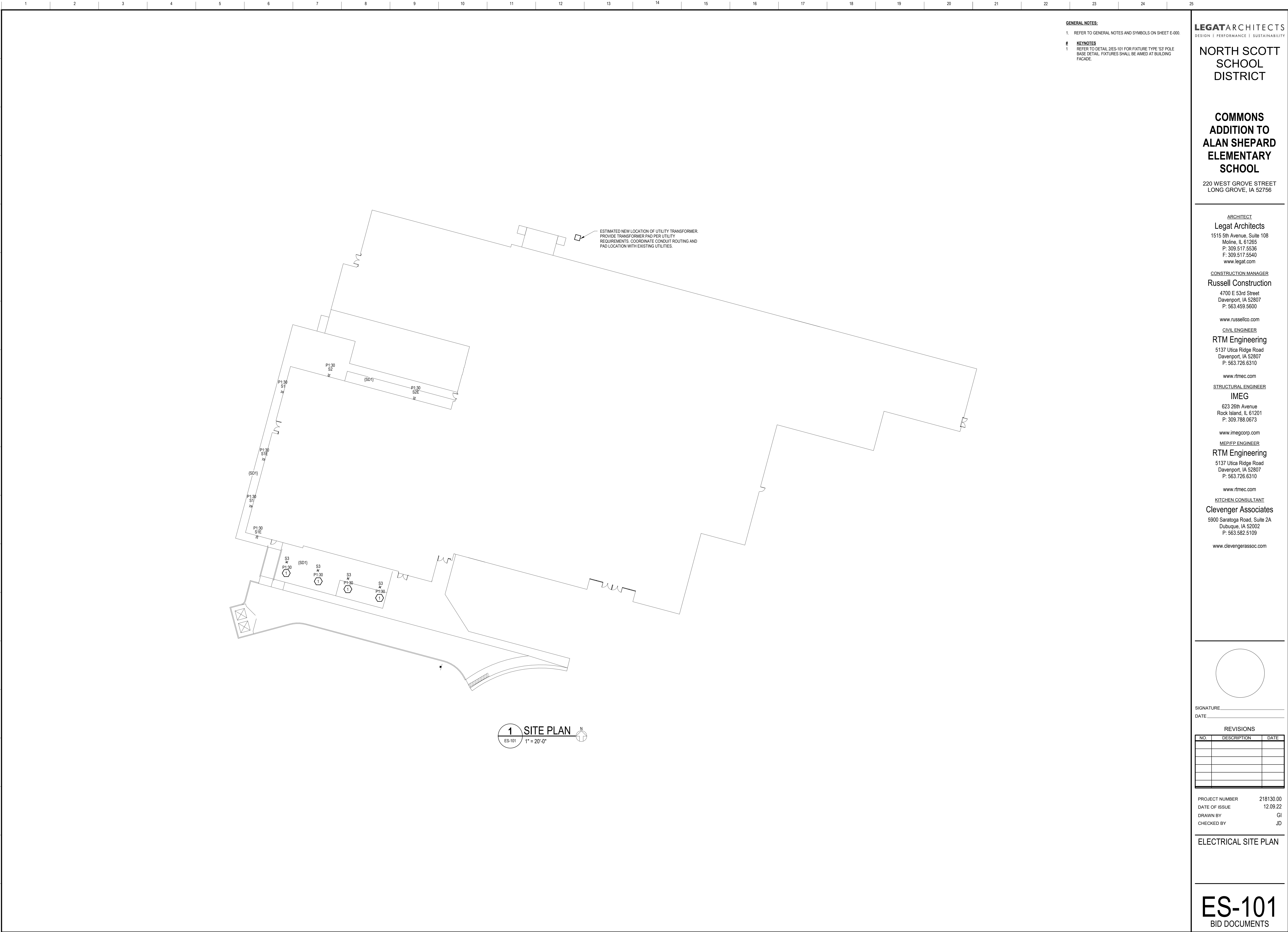
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CL

FIRST FLOOR
ELECTRICAL PLAN -
LIGHTING DEMO

ED-201
BID DOCUMENTS



KEY PLAN



GENERAL NOTES:
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.

KEYNOTES
1. REFER TO DETAIL 2/ES-101 FOR FIXTURE TYPE 'S3' POLE BASE DETAIL. FIXTURES SHALL BE AIMED AT BUILDING FACADE.

LEGATARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

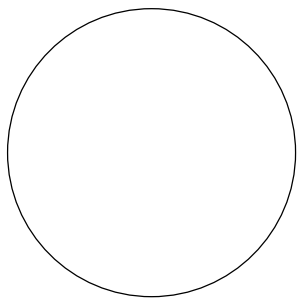
CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEP/FP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com


SIGNATURE _____
DATE _____

REVISIONS

NO.	DESCRIPTION	DATE

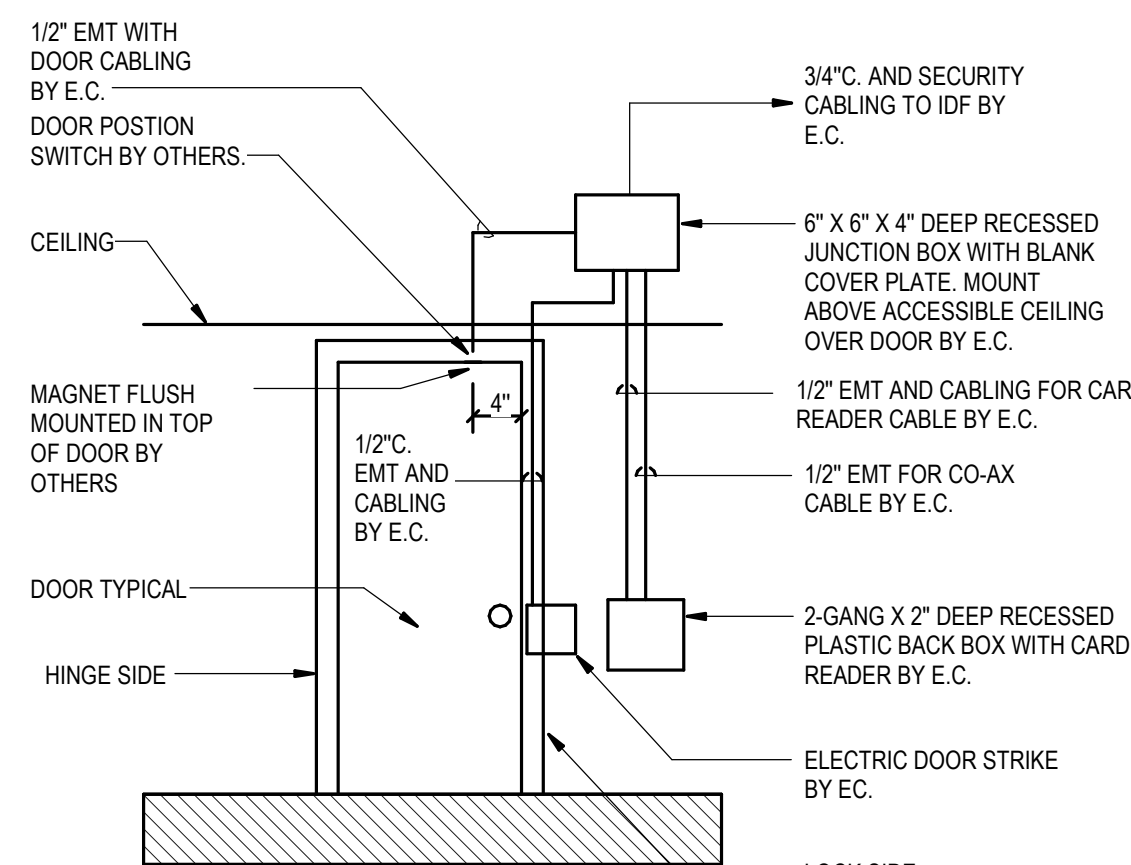
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY JD

ELECTRICAL SITE PLAN

ES-101
BID DOCUMENTS

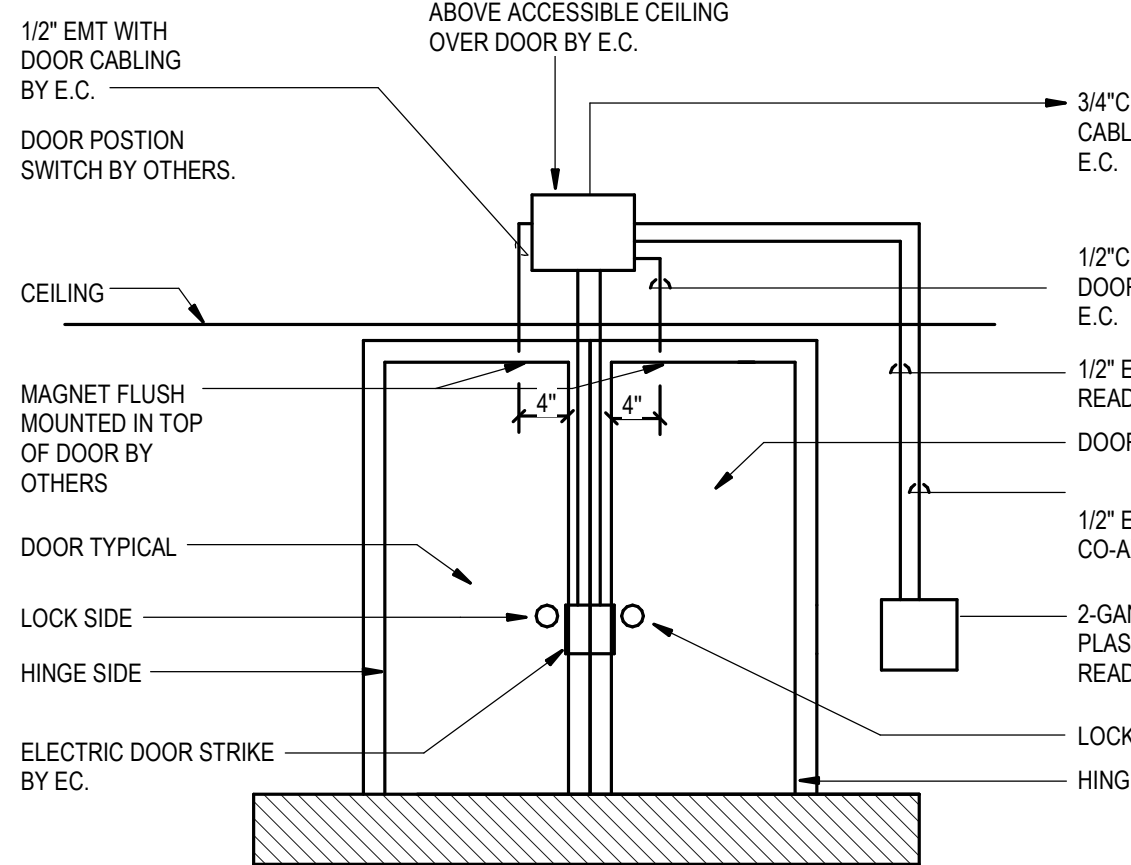
ELECTRICAL KITCHEN EQUIPMENT SCHEDULE										
TAG	QTY	NAME	AMPS	VOLTAGE/ PHASE	LOAD	CONNECTION TYPE	WIRE	ELEVATION	REMARKS	
01	1	FREEZER REMOTE COMPRESSOR	9.7 A	208V/3P	3496 VA	DIRECT/BOX	3#12 & 1#12 GND, IN 3/4" C.	18"	VERIFY LOCATION OF ROUGH-IN	
02	1	COOLER REMOTE COMPRESSOR	5.2 A	208V/3P	1874 VA	DIRECT/BOX	3#12 & 1#12 GND, IN 3/4" C.	18"	VERIFY LOCATION OF ROUGH-IN	
05	2	EXHAUST HOOD	15.0 A	120V/1P	1800 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	(2 @ 120V AT 15.0 AMPS EA) STUB DOWN; LIGHT AND FAN SWITCH BY ELEC. DIV. AUTOSTART/ STOP FAN INTERLOCK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS	
06	1	FIRE SUPPRESSION SYSTEM	2.0 A	120V/1P	240 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN, CONDUIT RUN ABOVE CEILING	
09	2	KETTLE (40 GAL.)	59.0 A	208V/3P	21256 VA	DIRECT/BOX	3#6 & 1#10 GND, IN 1" C.	18"	(2 @ 208V AT 4.8 AMPS EA) STUB AT -24" AND 48" AFF	
11	4	MOBILE COMBI OVEN (DOUBLE STACKED)	4.8 A	120V/1P	576 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN, CONDUIT RUN ABOVE CEILING	
21	1	MIXER (20 QT.)	10.6 A	120V/1P	1272 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	
26	1	BLAST CHILLER/ FREEZER	7.3 A	120V/1P	876 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	(208-230V) STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	
30	1	MICROWAVE OVEN	15.0 A	120V/1P	1800 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	60"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	
38	1	DISPOSER WITH CONTROLS	6.6 A	208V/3P	2378 VA	DIRECT/BOX	3#12 & 1#12 GND, IN 3/4" C.	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	
42	1	MOBILE MILK COOLER	7.8 A	120V/1P	912 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB UP TO FLOOR RECEPTACLE	
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	27.4 A	208V/1P	4800 VA	L14-30R	3#10 & 1#10 GND, IN 3/4" C.	18"	STUB UP TO FLOOR RECEPTACLE	
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	3.5 A	120V/1P	420 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	48"	STUB UP TO FLOOR RECEPTACLE	
50	2	WALK-IN COOLER/FREEZER ASSEMBLY	8.0 A	120V/1P	1920 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	48"	(2 @ 120V AT 8.0 AMPS EA) STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM	
51	1	UNIT COOLER (COOLER)	0.6 A	120V/1P	72 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM	
52	1	UNIT COOLER (FREEZER)	1.5 A	208V/1P	1976 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN. SEE DETAIL "S" SHEET FS-2 FOR WIRING DIAGRAM	
61	2	DISHWASHER WITH BOOSTER HEATER	57.3 A	208V/3P	20643 VA	DIRECT/BOX	3#6 & 1#10 GND, IN 1" C.	18"	(1 @ 208V AT 57.3 AMPS AND 80.0 AMPS FOR BREAKER FOR TANK #1) (TANK #2 NOT USED) (1 @ 208V AT 50.0 AMPS AND 70.0 AMPS FOR BREAKER FOR #3) (1 @ 208V AT 4.0 AMPS AND 15.0 AMPS FOR BREAKER FOR TANK #4)	
65	1	DISPOSER WITH CONTROLS	6.6 A	208V/3P	2378 VA	DIRECT/BOX	4#12 & 1#12 GND, IN 3/4" C.	18"	INTER-CONNECT THRU CONTROLS (BY ELECTRICAL DIVISION)	
66	2	MOBILE HOT HOLDING CABINET/PROOFER (BY OWNER)	16.0 A	120V/1P	1920 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	11.7 A	120V/1P	1344 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	
901	2	CONVENIENCE RECEPTACLE	15.0 A	120V/1P	180 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	CONVENIENCE OUTLET STUB OUT WALL	
902	1	CONVENIENCE RECEPTACLE	15.0 A	120V/1P	180 VA	DIRECT/BOX	2#12 & 1#12 GND, IN 3/4" C.	18"	STUB DOWN DROP CORD BY ELECTRICAL DIVISION	

GENERAL ELECTRICAL FOOD SERVICE NOTES:
1. ELECTRICAL PLANS SHOW EQUIPMENT NUMBERS WHICH CORRESPONDS TO EQUIPMENT SHOWN ON FOOD SERVICE DRAWINGS. REFER TO FOOD SERVICE PLANS FOR COMPLETE DESCRIPTION OF EQUIPMENT AND POWER REQUIREMENTS.
2. VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, NEMA RATINGS, ETC FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN. DEVICE LOCATIONS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. REFER TO FOOD SERVICE EQUIPMENT PLANS AND SHOP DRAWINGS FOR EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS.
3. FURNISH AND INSTALL DISCONNECT SWITCHES, INTERLOCKS, CONDUIT AND WIRING, AND INSTALL AS SPECIFICALLY OUTLINED WITHIN THE FOOD SERVICE CONSULTANT DRAWINGS.
4. FOR EQUIPMENT ITEM NOT PROVIDED WITH CORD AND PLUG CONNECTIONS, VERIFY THE EQUIPMENT CONTAINS AN INTEGRAL EQUIPMENT POWER SWITCH. IF EQUIPMENT IS NOT PROVIDED WITH MANUAL SWITCH PROVIDE A WALL MOUNTED DISCONNECT SWITCH FOR THE EQUIPMENT.
5. ALL EQUIPMENT JUNCTION BOXES SHALL INCLUDE FINAL CONNECTION TO THEIR RESPECTIVE KITCHEN EQUIPMENT. VERIFY REQUIREMENTS WITH EQUIPMENT SUPPLIER AND PROVIDE ALL NECESSARY ITEMS TO MEET THE EQUIPMENT'S ELECTRICAL INSTALLATION REQUIREMENTS.



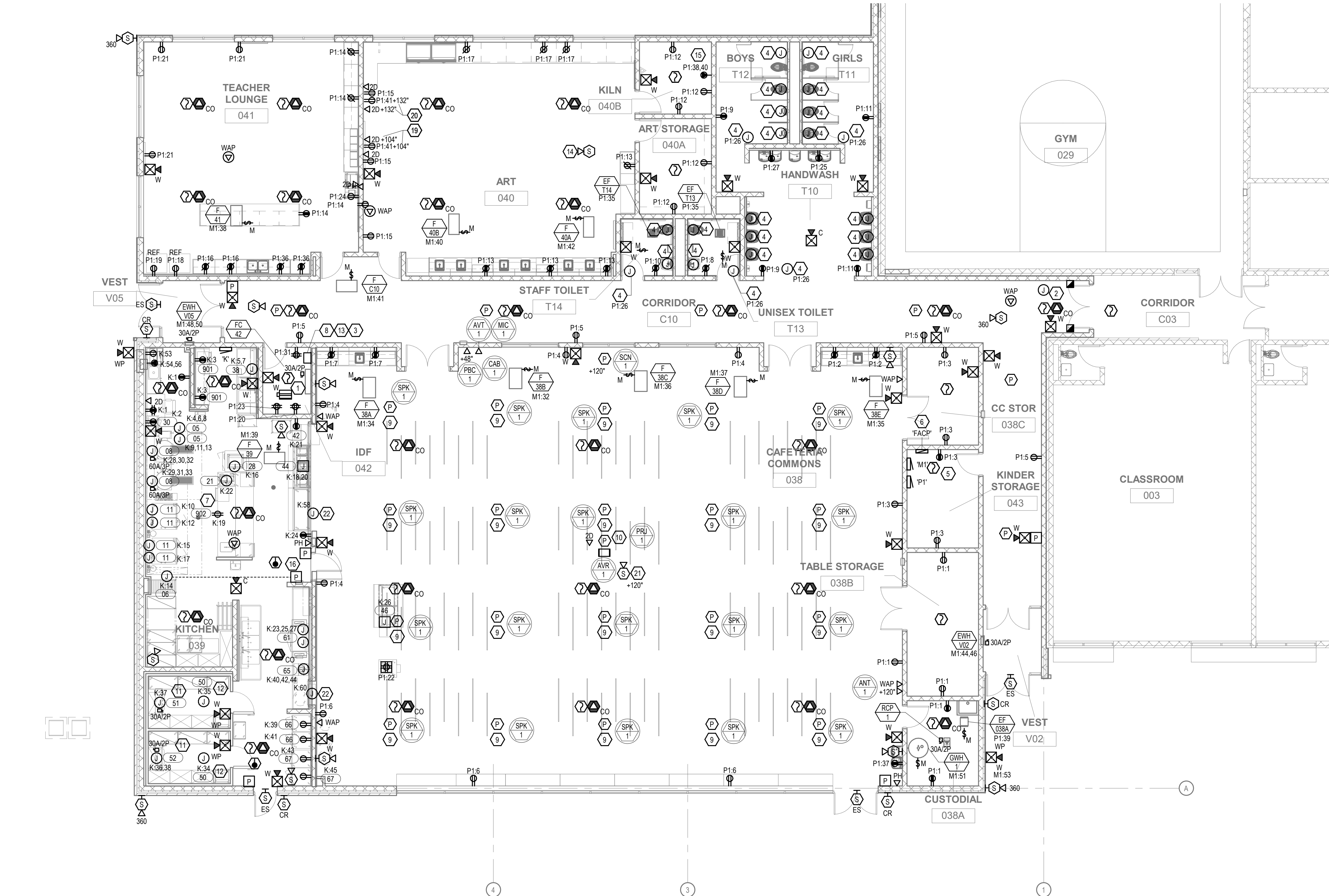
- NOTES:
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, BOXES, AND SECURITY CABLE AND EQUIPMENT FOR CARD READER SYSTEM PER DISTRICT STANDARD.
 - ELECTRICAL CONTRACTOR TO PROVIDE DOOR POSITION, SWITCH, MAGNET, ELECTRIC DOOR STRIKE.
 - SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

3 DOOR SECURITY ROUGH-IN DETAIL
E-101 SCALE: N.T.S.



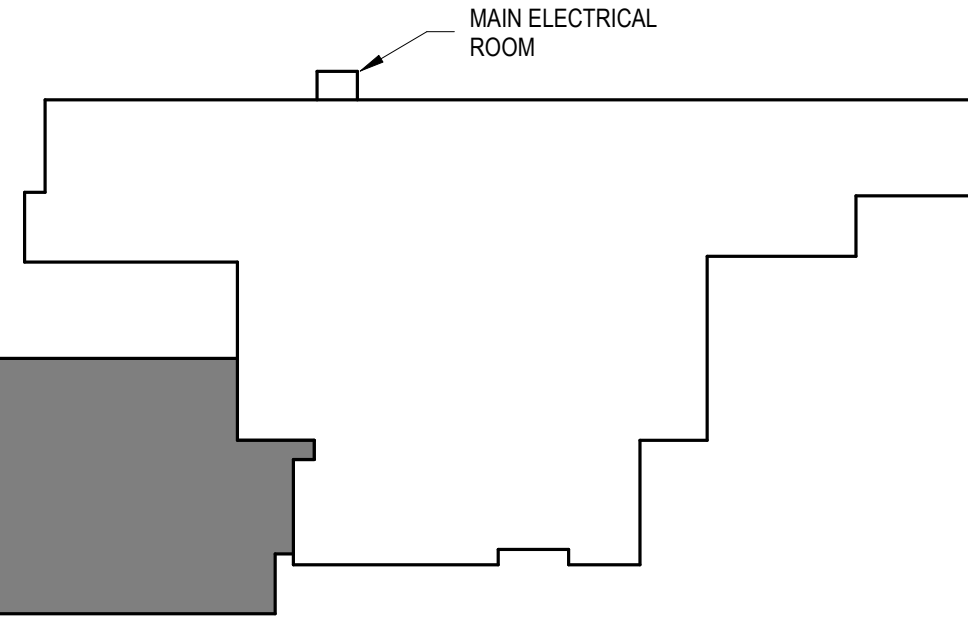
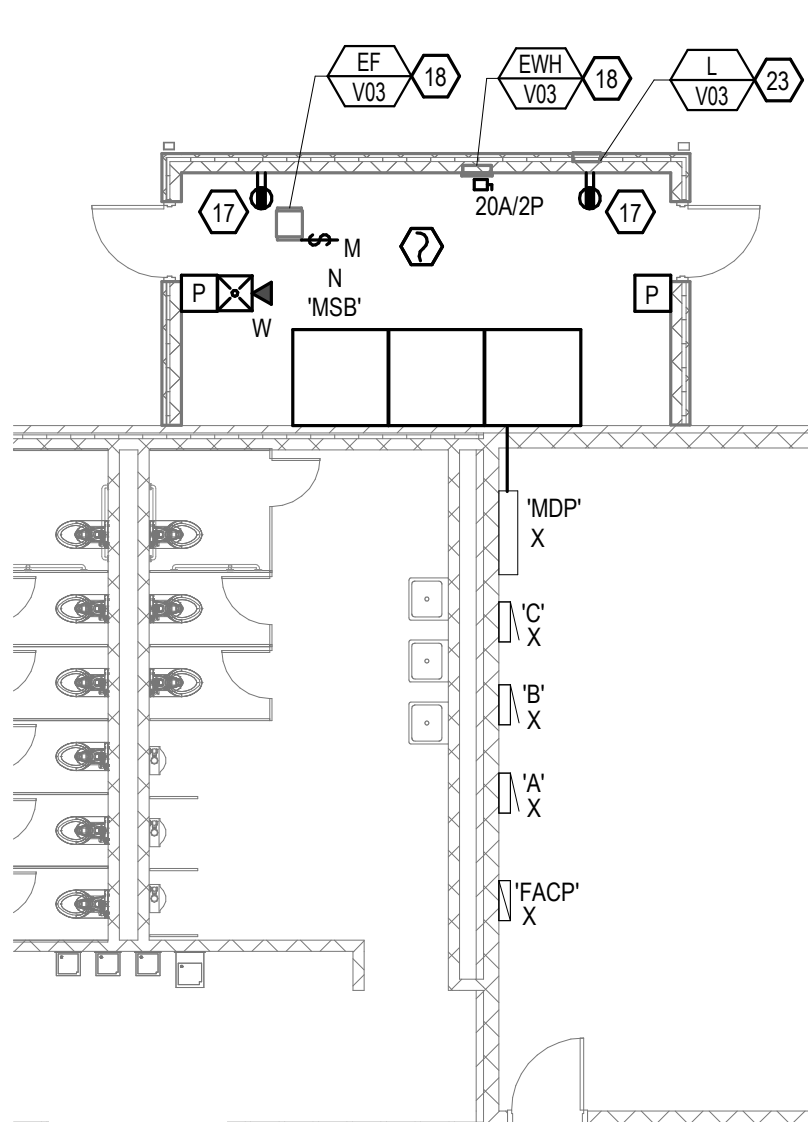
- NOTES:
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS, BOXES, AND SECURITY CABLE AND EQUIPMENT FOR CARD READER SYSTEM PER DISTRICT STANDARD.
 - ELECTRICAL CONTRACTOR TO PROVIDE DOOR POSITION, SWITCH, MAGNET, ELECTRIC DOOR STRIKE.
 - SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

4 DOOR SECURITY ROUGH-IN DETAIL
E-101 SCALE: N.T.S.



1 FIRST FLOOR ELECTRICAL PLAN - POWER, FIRE ALARM, AND LOW VOLTAGE
E-101 1/8" = 1'-0"

2 FIRST ELECTRICAL FLOOR - POWER - MAIN ELECTRICAL ROOM
E-101 1/8" = 1'-0"



KEY PLAN

- GENERAL NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 - PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-400 FOR FEEDER, GROUND & CONDUIT SIZES.
 - PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 - ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
- KEYNOTES:**
- PROVIDE 12 STRAND OM3 MULTIMODE FIBER BACK TO MDF DATA RACK.
 - PROVIDE (2) #10 AWG, (1) #10 AWG GROUND IN 3/4" CONDUIT FOR AUTOMATIC FIRE DOOR. DISCONNECT, FIRE ALARM ADDRESSABLE RELAY AND CONNECTION, AND WIRING FOR DOOR CONTROLS. COORDINATE FINAL ELECTRICAL CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.
 - PROVIDE AV RACK FOR CAFETERIA IN T ROOM.
 - PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM EQUIPMENT AUTOMATIC SENSORS AND EQUIPMENT LOW VOLTAGE TRANSFORMER FOR A FULLY OPERATIONAL SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS. EC SHALL MOUNT LOW VOLTAGE TRANSFORMER FEEDING SENSORS ABOVE ACCESSIBLE LOCATION IN CEILING PROVIDED BY OTHERS IF NOT INTEGRAL TO EQUIPMENT.
 - PROVIDE SMOKE DETECTOR WITHIN 5'-0" OF FIRE ALARM CONTROL PANEL.
 - PROVIDE DEDICATED 120V, 20A CIRCUIT FOR FIRE ALARM CONTROL PANEL FROM PANEL P115 USING 2#12 AND 1#12 GND IN 3/4" CONDUIT TO NEW 20A/1P CIRCUIT BREAKER.
 - PROVIDE CORD REELS FOR INSTALLATION OF RECEPTACLE(S). REFER TO 11E-400 CORD REEL DETAIL FOR ADDITIONAL INFORMATION.
 - PROVIDE (2) DATA CABLES AT CABINET FOR CONNECTION TO DATA NETWORK.
 - THE SPEAKER SHALL BE PENDANT MOUNTED AT SAME ELEVATION AS LIGHT FIXTURES, APPROXIMATELY 10'-0" AFF.
 - THE EXACT MOUNTING LOCATION OF THE PROJECTOR SHALL BE COORDINATED ACCORDING TO THE PRODUCT SPECIFICATIONS. VERIFY REQUIREMENTS WITH FINAL APPROVED SUBMITTAL PRIOR TO INSTALLING ROUGH-INS FOR POWER AND DATA.
 - PROVIDE ELECTRICAL CONNECTION, DISCONNECT, AND CONDUIT AND WIRE AS REQUIRED FOR INSTALLATION OF FREEZER/REFRIGERATOR EVAPORATOR MOTOR SWITCH (IF PROVIDED), THERMOSTAT, AND LIQUID LINE SOLENOID. COORDINATE FINAL INSTALLATION REQUIREMENTS WITH APPROVED SUBMITTAL. REFER TO FOOD SERVICE DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
 - PROVIDE ALL CONDUIT AND WIRE AS REQUIRED FOR INSTALLATION OF MANUFACTURER PROVIDED LIGHTING, AND LIGHTING CONTROL COMPONENTS, AND FREEZER/REFRIGERATOR LIGHTING. REFER TO FOOD SERVICE SHEETS AND DETAILS FOR ADDITIONAL INFORMATION.
 - REFER TO THE CAFETERIA COMMONS AV SCHEMATIC DIAGRAM FOR THE AND CABLING EQUIPMENT IN CAB-1 LOCATED ON SHEET E-300.
 - PROVIDE CAT 6A CABLE IN IMC CONDUIT PENDANT MOUNTED 4'X4" BOX AT 120" AFF FOR AUDIO ENHANCEMENT SYSTEM IN OWNER APPROVED LOCATION.
 - PROVIDE 2#6 AWG, 1#10 GND, IN 1" C. FOR KILN CIRCUIT.
 - PULL STATION FOR EXHAUST HOOD AND KITCHEN ANSUL SYSTEM.
 - PROVIDE 2#12 AND 1#12 GND IN 3/4" CONDUIT TO NEW 20A/1P CIRCUIT BREAKER IN MSB, LOCATED IN NEW ELECTRICAL ROOM.
 - MECHANICAL EQUIPMENT CIRCUITED TO MSB. REFER TO ONE-LINE DIAGRAM ON SHEET E-300 AND EQUIPMENT SCHEDULE ON SHEET E-400 FOR ADDITIONAL INFORMATION.
 - DATA AND RECEPTACLE FOR PROJECTOR (EPSON BRIGHTLINK 725W) INTERACTIVE PROJECTOR PROVIDED BY OWNER INSTALLED BY EC MOUNTED 20" ABOVE BACKBOARD.
 - PROVIDE DATA AND RECEPTACLE DEVICES FOR AUDIO ENHANCEMENT SYSTEM. COORDINATE EXACT LOCATION WITH OWNER AND GC.
 - PROVIDE CAT 6A CABLE IN IMC CONDUIT PENDANT MOUNTED 4'X4" BOX AT 120" AFF IN OWNER APPROVED LOCATION.
 - PROVIDE ELECTRICAL CONNECTION AND ADDITIONAL CONDUIT AND WIRE FOR INSTALLATION OF ROLL UP DOOR AND CONTROLS AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
 - LOUVER SHALL BE CIRCUITED AND CONTROLLED VIA EXHAUST FAN. EC SHALL PROVIDE ADDITIONAL CONDUIT AND WIRE FOR LOUVER CONNECTION AND CONTROLS.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52876

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.5600

CIVIL ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

MED/PEP ENGINEER
RTM Engineering
5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

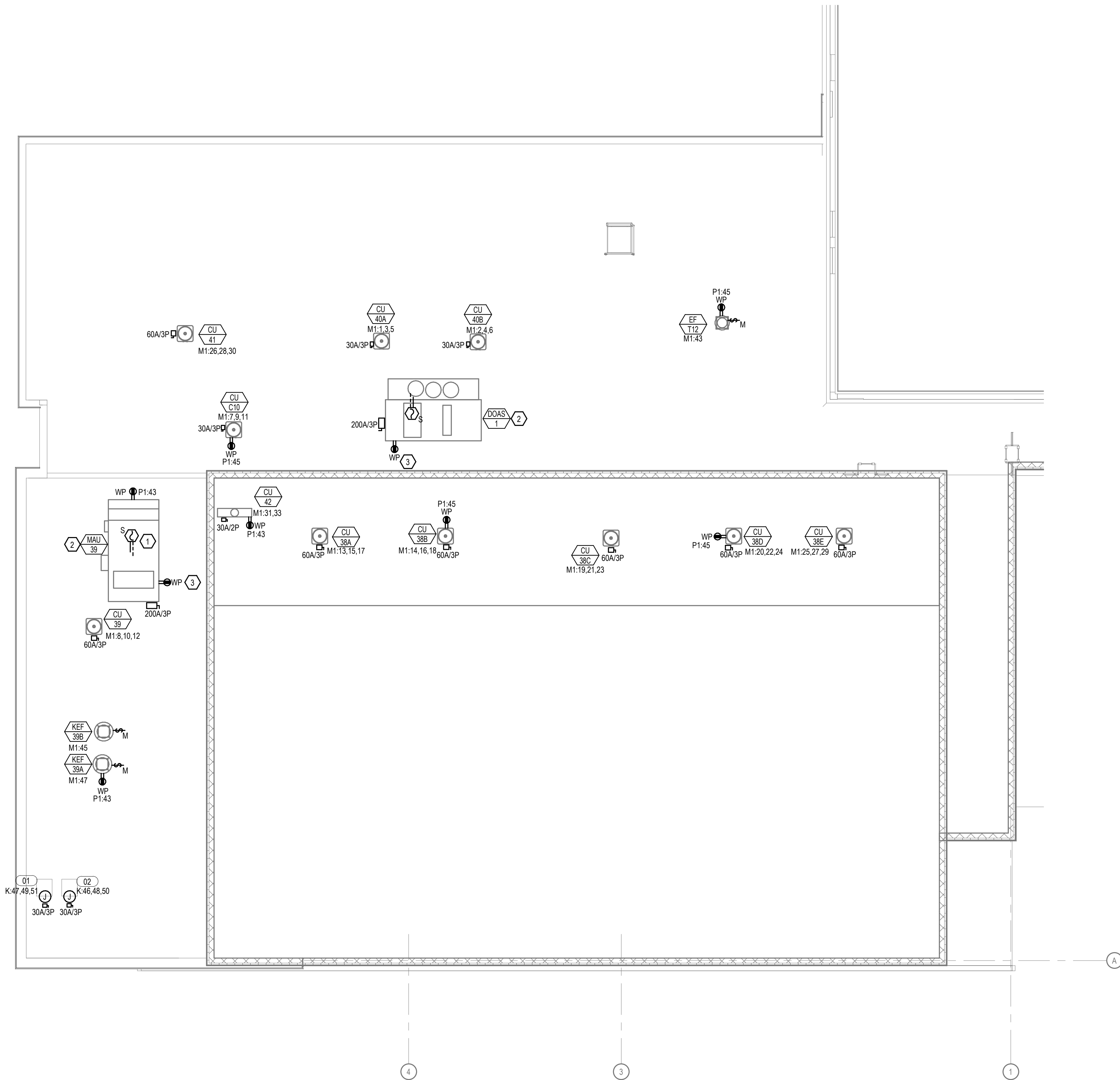
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

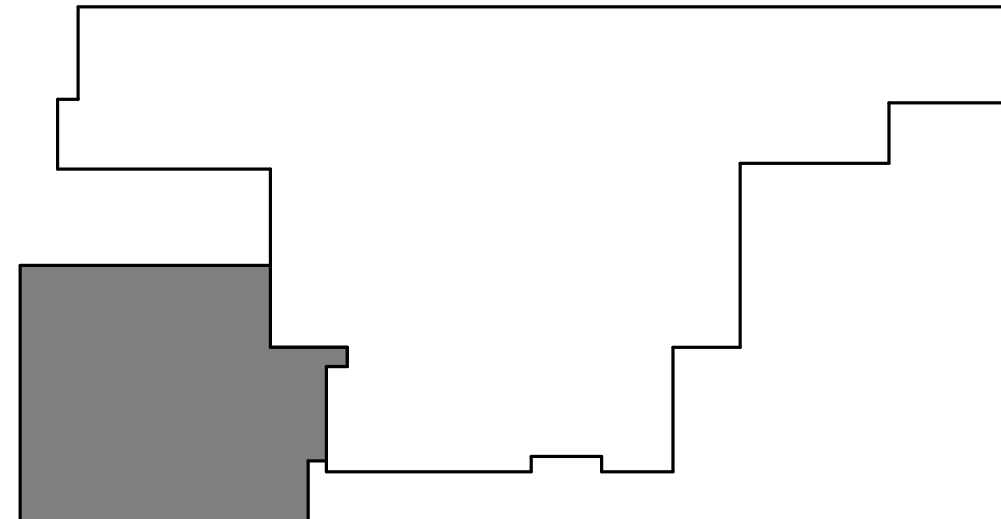
PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CL

FIRST FLOOR ELECTRICAL PLAN - POWER AND LOW VOLTAGE

E-101
BID DOCUMENTS



1 ELECTRICAL ROOF PLAN
E-102 1/8" = 1'-0"



KEY PLAN

- GENERAL NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 2. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-400 FOR FEEDER, GROUND & CONDUIT SIZES.
 3. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
- KEYNOTES**
1. PROVIDE DUCT SMOKE DETECTION FOR THE SUPPLY DUCT FOR EQUIPMENT. PROVIDE ADDRESSABLE RELAY FOR UNIT SHUT DOWN TIED TO THE FACP.
 2. REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-300 AND MECHANICAL EQUIPMENT SCHEDULE ON SHEET E-400 FOR CIRCUITING INFORMATION.
 3. RECEPTACLE DEVICE PROVIDED WITH EQUIPMENT, EC SHALL PROVIDE WIRING AS REQUIRED FOR INSTALLATION.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

**NORTH SCOTT
SCHOOL
DISTRICT**

**COMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL**

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

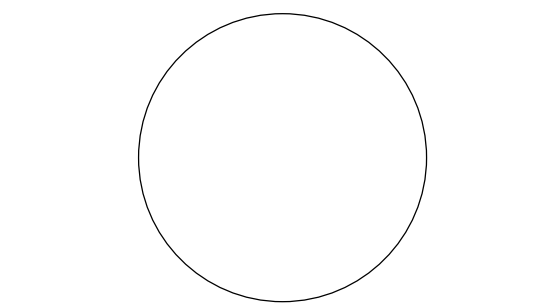
CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

MEP/FP ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

www.clevengerassoc.com



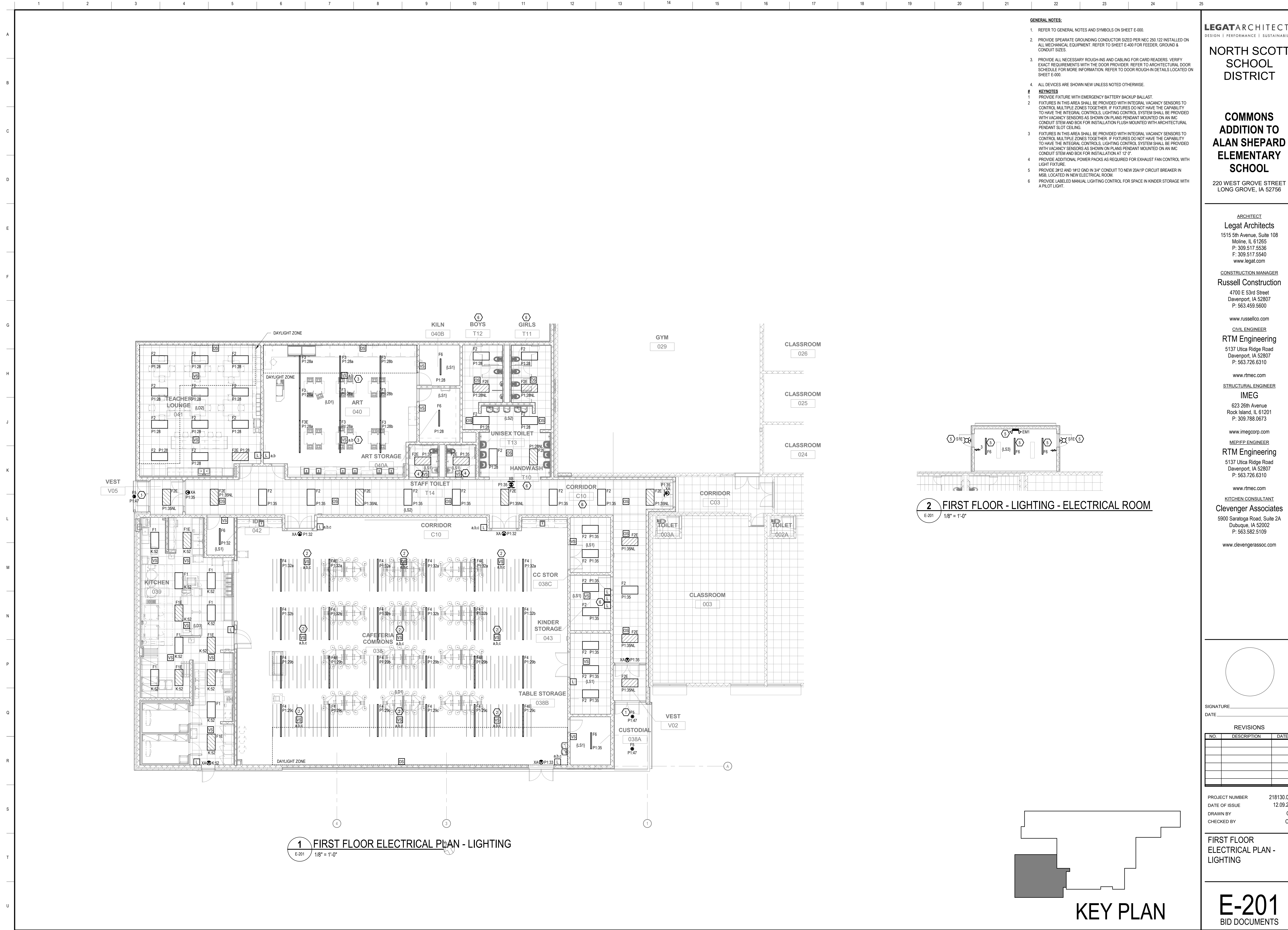
SIGNATURE _____
DATE _____

REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CL

**ELECTRICAL ROOF
PLAN**

E-102
BID DOCUMENTS



- GENERAL NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
 2. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-400 FOR FEEDER, GROUND & CONDUIT SIZES.
 3. PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL DOOR SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCATED ON SHEET E-000.
 4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.
- # KEYNOTES**
1. PROVIDE FIXTURE WITH EMERGENCY BATTERY BACKUP BALLAST.
 2. FIXTURES IN THIS AREA SHALL BE PROVIDED WITH INTEGRAL VACANCY SENSORS TO CONTROL MULTIPLE ZONES TOGETHER. IF FIXTURES DO NOT HAVE THE CAPABILITY TO HAVE THE INTEGRAL CONTROLS, LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH VACANCY SENSORS AS SHOWN ON PLANS PENDANT MOUNTED ON AN IMC CONDUIT STEM AND BOX FOR INSTALLATION FLUSH MOUNTED WITH ARCHITECTURAL PENDANT SLOT CEILING.
 3. FIXTURES IN THIS AREA SHALL BE PROVIDED WITH INTEGRAL VACANCY SENSORS TO CONTROL MULTIPLE ZONES TOGETHER. IF FIXTURES DO NOT HAVE THE CAPABILITY TO HAVE THE INTEGRAL CONTROLS, LIGHTING CONTROL SYSTEM SHALL BE PROVIDED WITH VACANCY SENSORS AS SHOWN ON PLANS PENDANT MOUNTED ON AN IMC CONDUIT STEM AND BOX FOR INSTALLATION FLUSH MOUNTED WITH ARCHITECTURAL PENDANT SLOT CEILING.
 4. PROVIDE ADDITIONAL POWER PACKS AS REQUIRED FOR EXHAUST FAN CONTROL WITH LIGHT FIXTURE.
 5. PROVIDE 2#12 AND 1#12 GND IN 3/4" CONDUIT TO NEW 20A/1P CIRCUIT BREAKER IN MSB, LOCATED IN NEW ELECTRICAL ROOM.
 6. PROVIDE LABELED MANUAL LIGHTING CONTROL FOR SPACE IN KINDER STORAGE WITH A PILOT LIGHT.

LEGAT ARCHITECTS
DESIGN | PERFORMANCE | SUSTAINABILITY

NORTH SCOTT SCHOOL DISTRICT

COMMONS ADDITION TO ALAN SHEPARD ELEMENTARY SCHOOL

220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT
Legat Architects
1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER
Russell Construction
4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600
www.russellco.com

CIVIL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

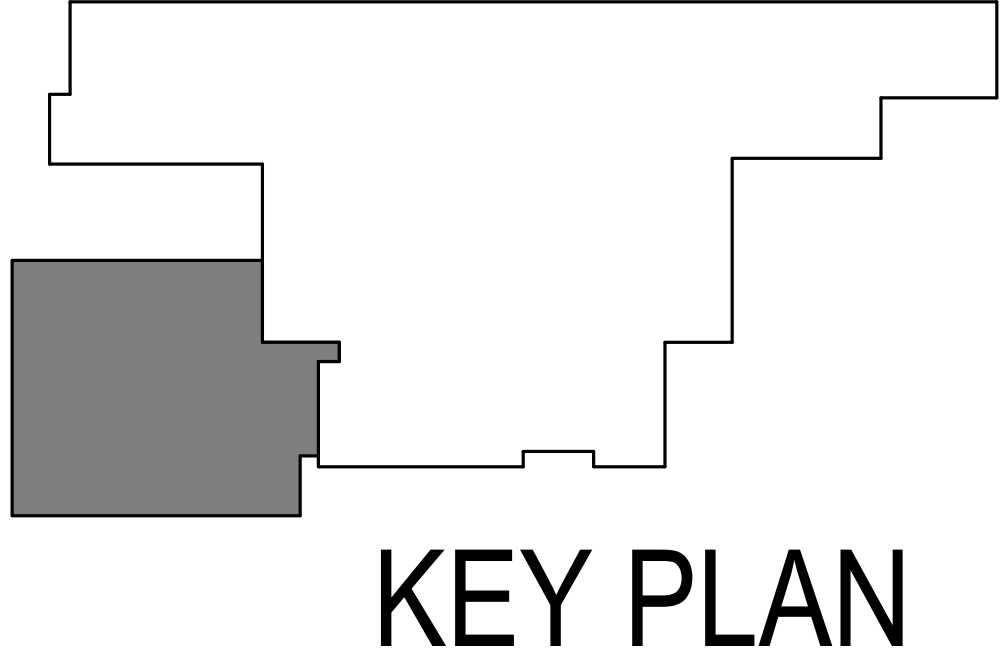
STRUCTURAL ENGINEER
IMEG
623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673
www.imegcorp.com

MEDICAL ENGINEER
RTM Engineering
5137 Ullica Ridge Road
Davenport, IA 52807
P: 563.726.6310
www.rtmec.com

KITCHEN CONSULTANT
Clevenger Associates
5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109
www.clevengerassoc.com

2 FIRST FLOOR - LIGHTING - ELECTRICAL ROOM
E-201 1/8" = 1'-0"

1 FIRST FLOOR ELECTRICAL PLAN - LIGHTING
E-201 1/8" = 1'-0"



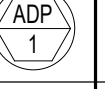
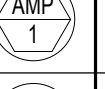


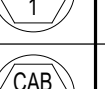
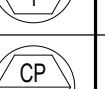
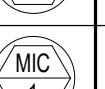
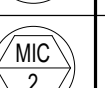
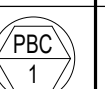


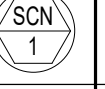

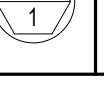
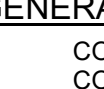
REVISIONS		
NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CL

FIRST FLOOR ELECTRICAL PLAN - LIGHTING

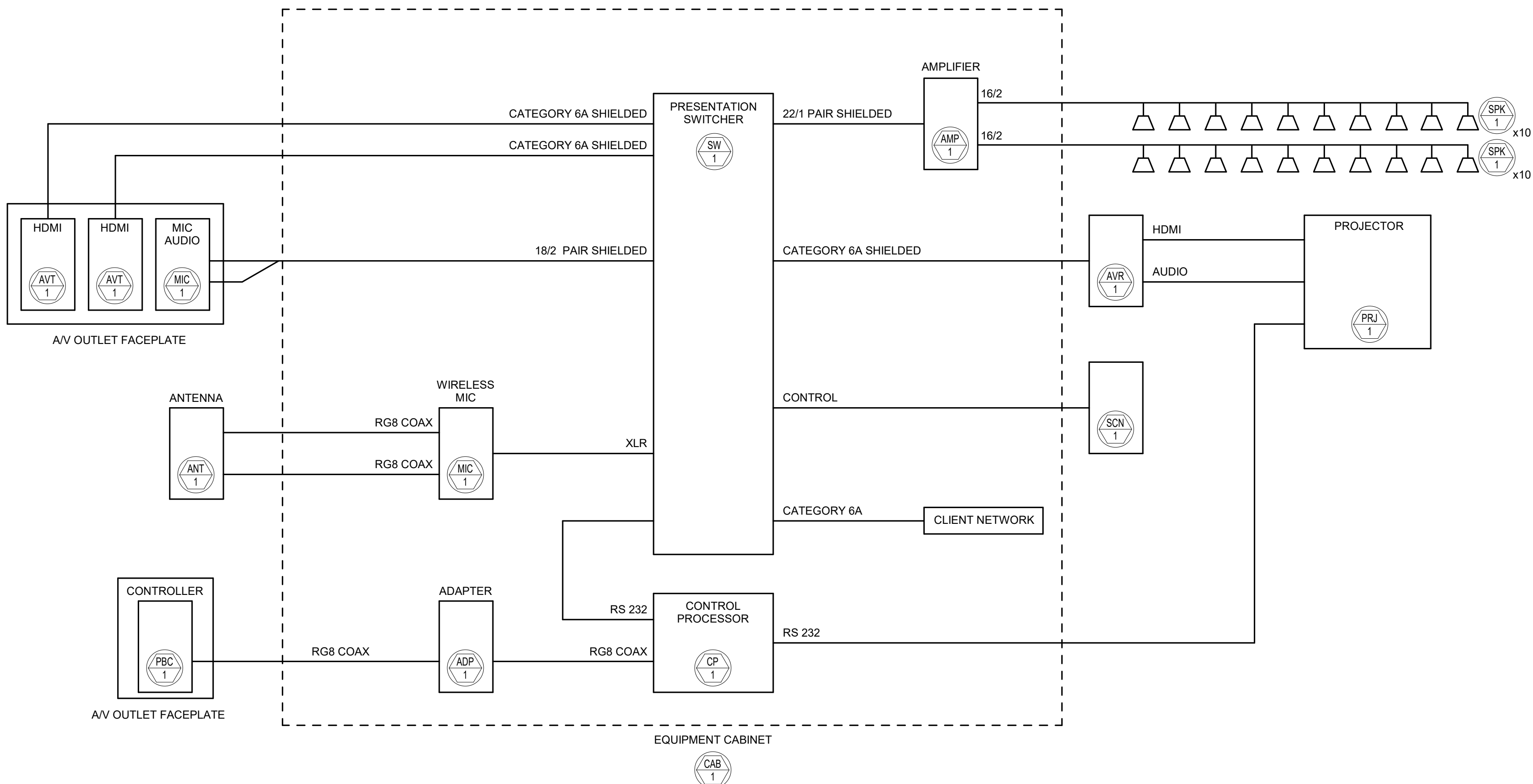
E-201
BID DOCUMENTS

AUDIO/VIDEO EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	PART NUMBER	ACCESSORIES OR NOTES	APPROVED EQUALS
 ADP 1	ADAPTIVE CAPTIVE SCREW TO UTP DONGLE	EXTRON	CSC 6	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
 AMP 1	2X500 WATT AMPLIFIER	CROWN	CDI-1000	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
 ANT 1	WIRELESS RF ANTENNA	RF VENUE	DFIN	MOUNTING BRACKET	AUDIO TECHNICA SENNHEISER SHURE
 AVR 1	AV TWISTED PAIR RECEIVER	EXTRON	DTP 1 HWP 4K 331 D	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
 AVT 1	AV TWISTED PAIR TRANSMITTER	EXTRON	DTP HDMI 4K 330 RX	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
 CAB 1	VERTICAL EQUIPMENT CABINET	TRIPP LITE	SRWF6 U36	PDU: PDU1415 BLANKING PANEL: EB1	NAVEPOINT MIDDLE ATLANTIC APPROVED EQUAL
 CP 1	AV CONTROL PROCESSOR	EXTRON	IPCP PRO 250 XI		CRESTRON AMX APPROVED EQUAL
 MIC 1	MICROPHONE - HARD WIRED	RDL SHURE	CONNECTOR: D-3M MICROPHONE: QLXD2/SM58		AUDIO TECHNICA SENNHEISER APPROVED EQUAL
 MIC 2	MICROPHONE - WIRELESS	SHURE	QLXD 124/68	LAVALIER QLXD1 AND WL185	AUDIO TECHNICA SENNHEISER APPROVED EQUAL
 PBC 1	AV PUSH BUTTON CONTROLLER	EXTRON	EBP 200	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
 PRJ 1	PROJECTOR - LARGE VENUE 9,000 LUMEN, 4K, WUXGA	VIVITEK	DUT285Z	LONG THROW LENS: S811119237-SVV	APPROVED EQUAL
 PS 1	PRESENTATION SWITCHER, 8-INPUT, 4K	EXTRON	IN1808 IPCP SA		CRESTRON AMX APPROVED EQUAL
 SCN 1	PROJECTOR SCREEN, 137" DIAGONAL, 16:10, TENSIONED, WALL MOUNT, MATTE WHITE, PROVIDED REQUIRED MOUNTING HARDWARE	DA-LITE	70192LS		APPROVED EQUAL
 SPK 1	PENDANT SPEAKERS, PAIR, WHITE	EXTRON	SF 26PT	70V TAPPED AT 32 WATTS, PENDANT LENGTH SHALL BE COORDINATED WITH PENDANT LIGHT FIXTURES	JBL APPROVED EQUAL
 SW 1	PRESENTER SWITCH	EXTRON	IN1808 - PART NUMBER 60-1615-01		CRESTRON AMX APPROVED EQUAL

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE REMOTE POWER SUPPLIES AS REQUIRED IF EQUIPMENT DOES NOT OBTAIN PoE POWER FROM AV HEAD END EQUIPMENT.
- CONTRACTOR SHALL PROVIDE NETWORK CONNECTIONS AS PART OF THIS SCOPE OF WORK.
- CONTRACTOR SHALL PROVIDE AV NETWORK SWITCH, SIZED AS NECESSARY TO ACCOMMODATE CONNECTION OF AV EQUIPMENT. EXACT MODEL SHALL BE COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO PURCHASE AND INSTALLATION.
- FINAL COLOR OF AV TRANSMITTERS, RECEIVERS AND SPEAKERS SHALL BE COORDINATED WITH ARCHITECT.

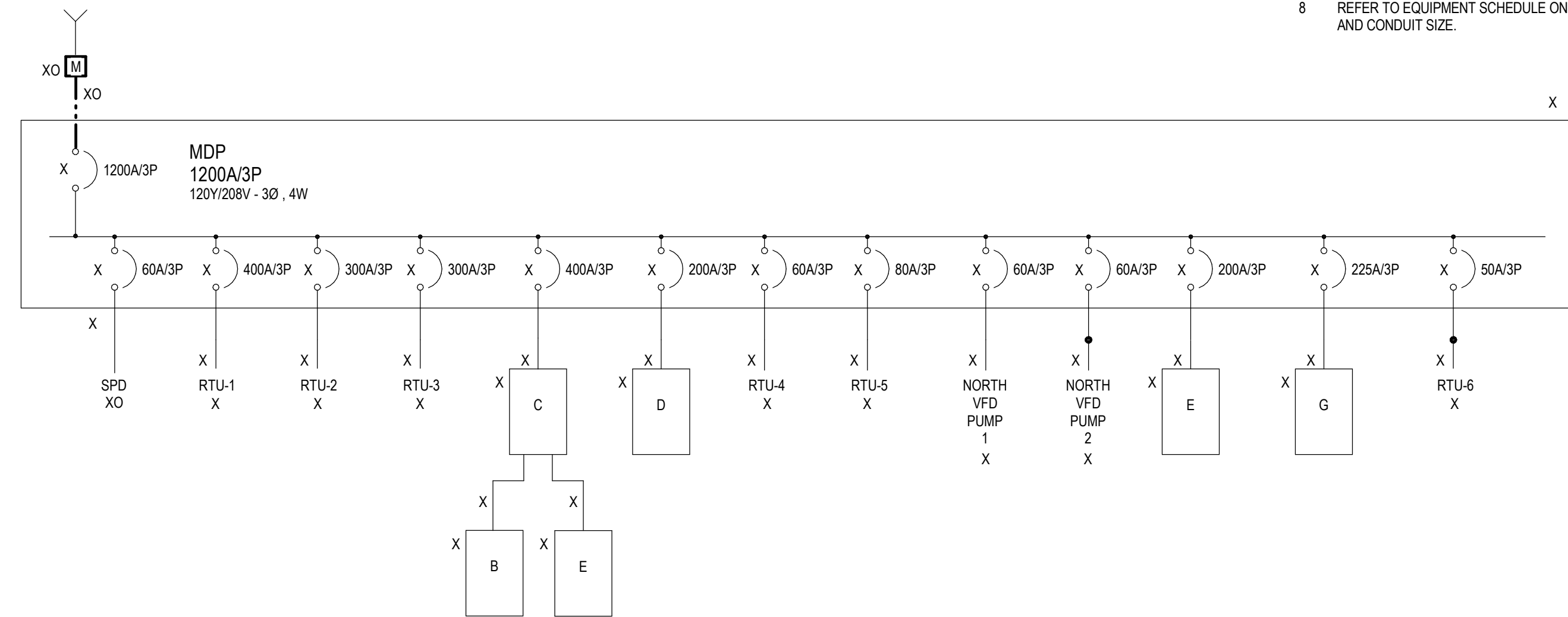


NOTES:

- ALL DEVICES AND COMPONENTS ARE CONTRACTOR FURNISHED, CONTRACTOR INSTALLED UNLESS NOTED OTHERWISE AS OWNER FURNISHED, OWNER INSTALLED (OFOI) OR OWNER FURNISHED, CONTRACTOR INSTALLED (OFCI).
- PROVIDE MOUNTING BRACKET FOR AV RECEIVER.
- CONTRACTOR SHALL PROVIDE REQUIRED POWER FOR SPEAKERS AND COORDINATE LOCATION AS REQUIRED.
- PROVIDE AUDIO DUCKING FOR EMERGENCY NOTIFICATIONS.
- REFER TO AV EQUIPMENT SCHEDULE.

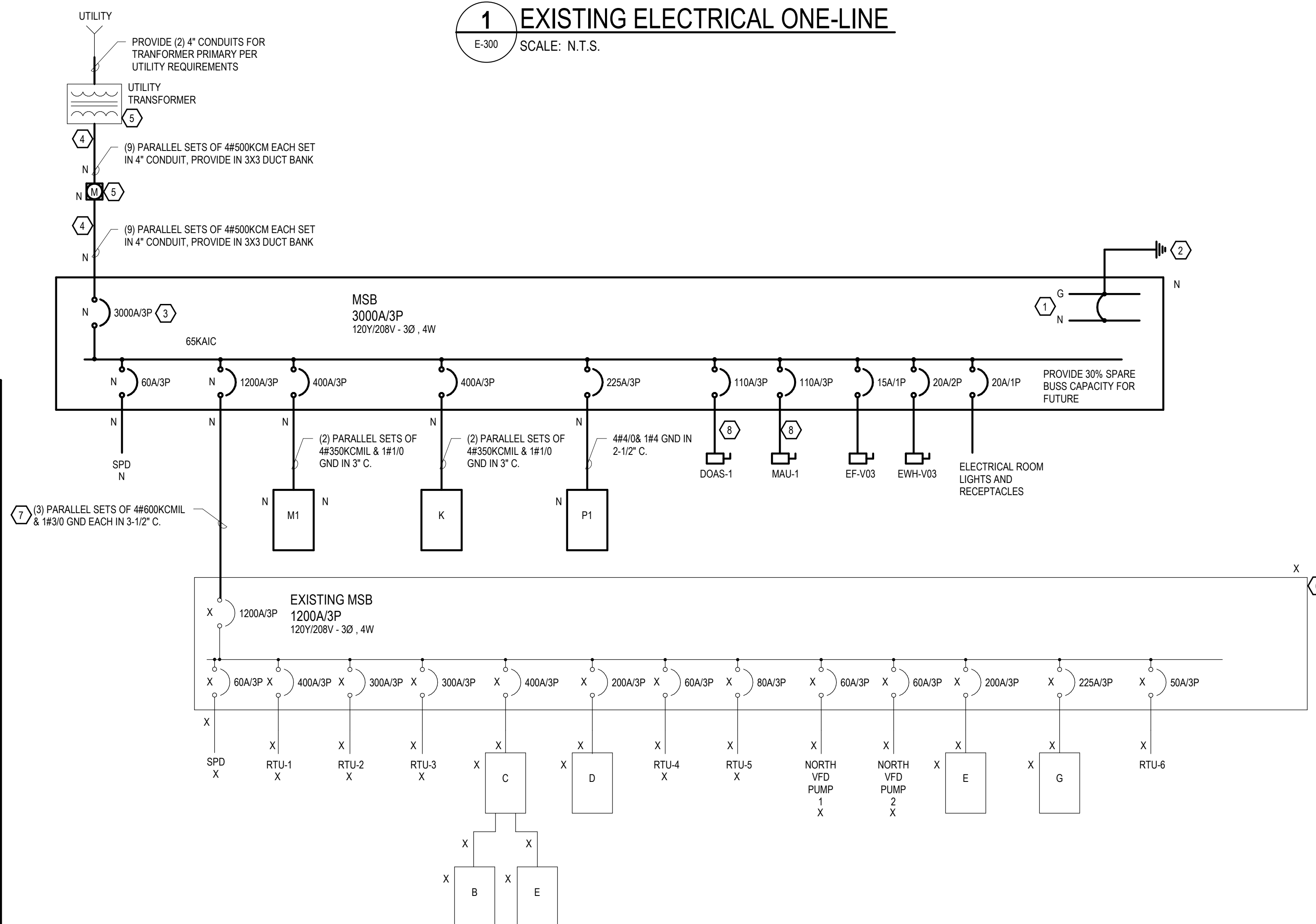
CAFETERIA COMMONS AV SCHEMATIC DIAGRAM

FROM EXISTING SERVICE



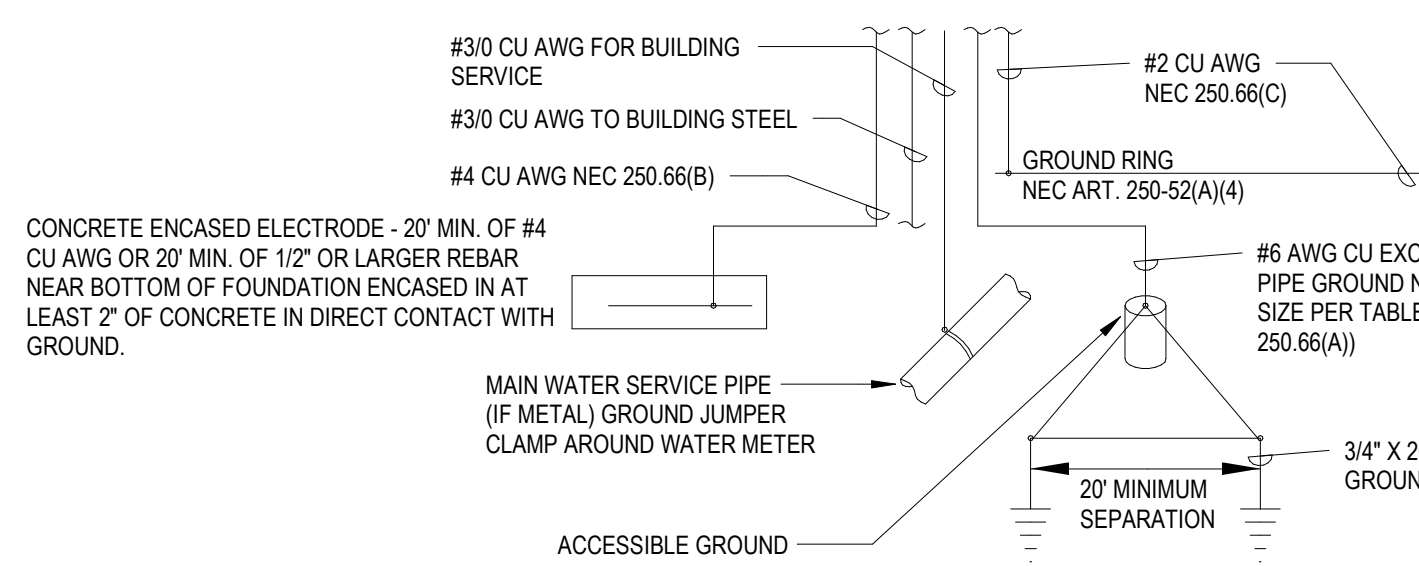
1 EXISTING ELECTRICAL ONE-LINE

E-300 SCALE: N.T.S.



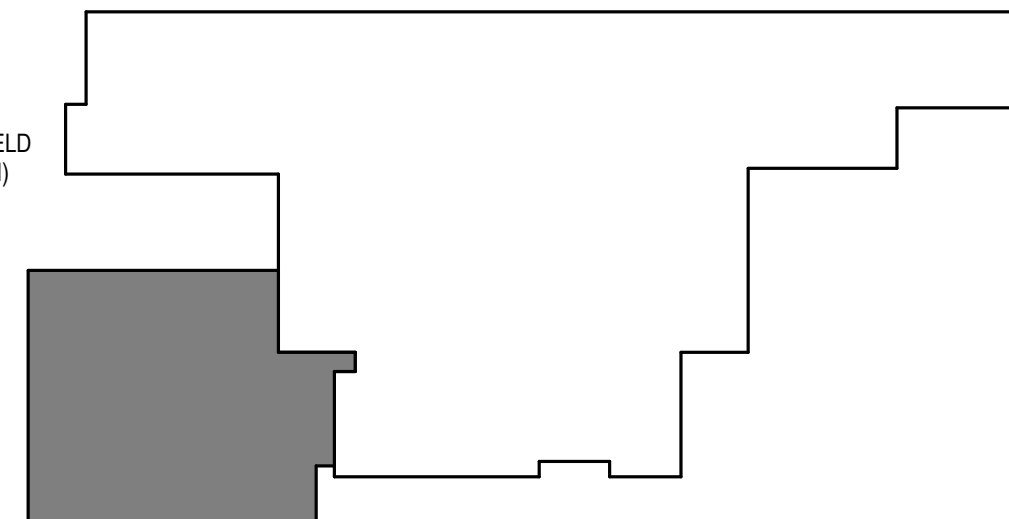
2 NEW ELECTRICAL ONE-LINE

E-300 SCALE: N.T.S.



3 SERVICE GROUNDING DETAIL

E-300 SCALE: N.T.S.



KEY PLAN

NORTH SCOTT
SCHOOL
DISTRICTCOMMONS
ADDITION TO
ALAN SHEPARD
ELEMENTARY
SCHOOL220 WEST GROVE STREET
LONG GROVE, IA 52756

ARCHITECT

Legat Architects

1515 5th Avenue, Suite 108
Moline, IL 61265
P: 309.517.5536
F: 309.517.5540
www.legat.com

CONSTRUCTION MANAGER

Russell Construction

4700 E 53rd Street
Davenport, IA 52807
P: 563.459.6600

www.russellco.com

CIVIL ENGINEER

RTM Engineering

5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

www.rtmec.com

STRUCTURAL ENGINEER

IMEG

623 26th Avenue
Rock Island, IL 61201
P: 309.788.0673

www.imegcorp.com

MEP/FP ENGINEER

RTM Engineering

5137 Ulica Ridge Road
Davenport, IA 52807
P: 563.726.6310

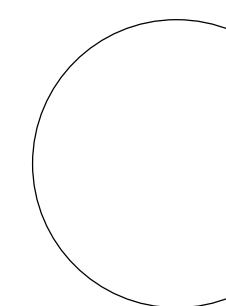
www.rtmec.com

KITCHEN CONSULTANT

Clevenger Associates

5900 Saratoga Road, Suite 2A
Dubuque, IA 52002
P: 563.582.5109

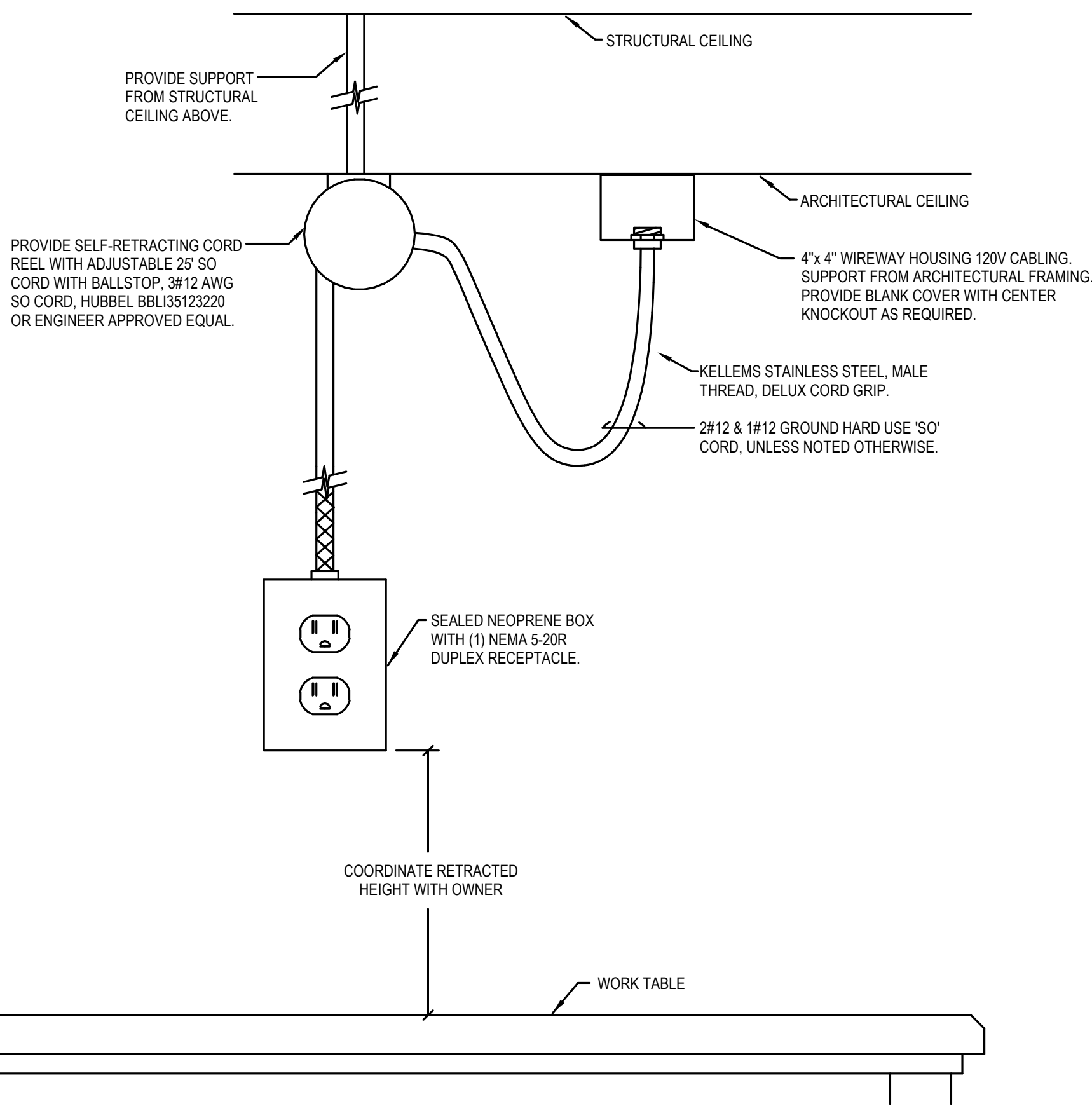
www.clevengerassoc.com

SIGNATURE
DATE

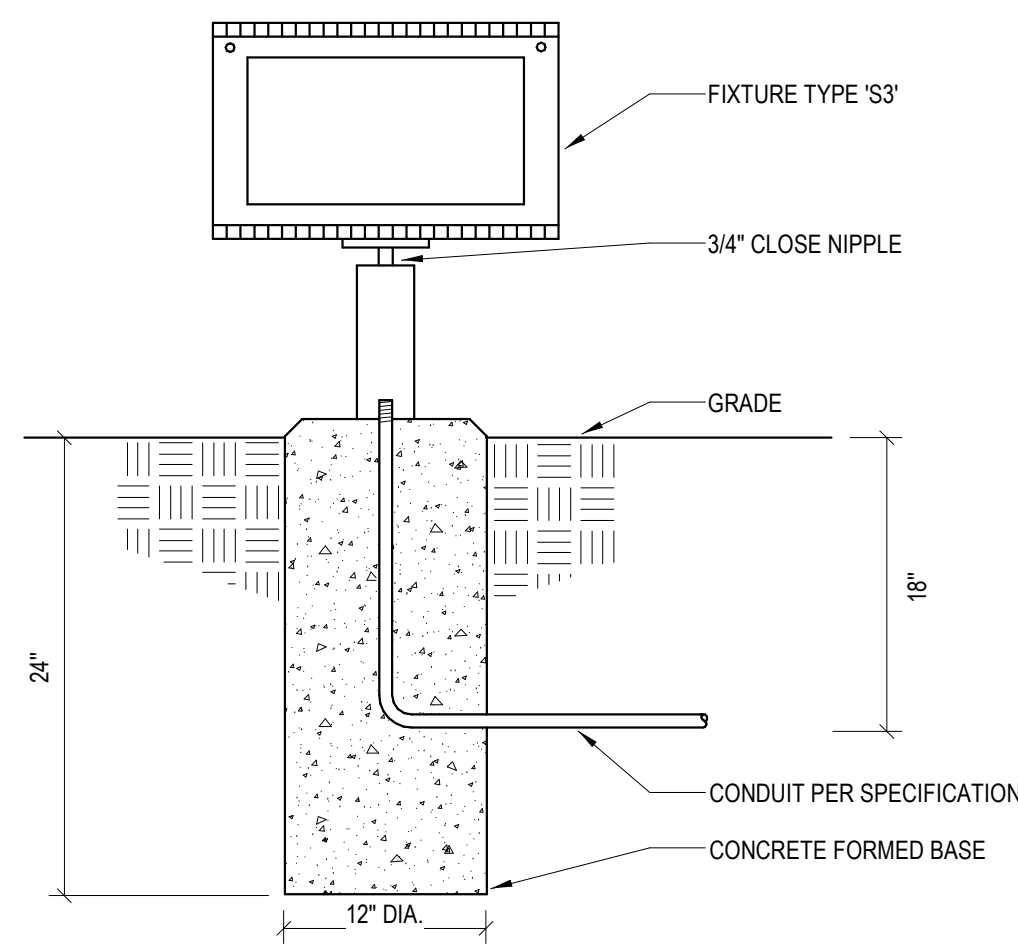
REVISIONS

NO.	DESCRIPTION	DATE

PROJECT NUMBER 218130.00
DATE OF ISSUE 12.09.22
DRAWN BY GI
CHECKED BY CLELECTRICAL ONE-LINE
DIAGRAM & AV
SCHEDULEE-300
BID DOCUMENTS



1 CORD REEL DROP CORD DETAIL
SCALE: N.T.S.



2 FIXTURE TYPE "S3" MOUNTING DETAIL
SCALE: N.T.S.

PLAN SYMBOL		LIGHT FIXTURE CONTROL OPERATION	
(LS1)		SEQUENCE: SWITCHED LIGHT(S) ARE VACANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL CONTROLLER. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL CONTROLLER OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	
(LS2)		SEQUENCE: SWITCHED LIGHT(S) ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL CONTROLLER OR AUTOMATICALLY WHEN THE SPACE IS OCCUPIED. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL CONTROLLER OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	
(LS3)		SEQUENCE: SWITCHED LIGHT(S) ARE MANUALLY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL SWITCH. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL SWITCH.	
(LD1)		SEQUENCE: MULTI-ZONED DIMMED LIGHT(S) ARE DAYLIGHT AND VACANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE SPECIFIC WALL CONTROLLER. ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAISED/LOWERED MANUALLY WITH A ZONE SPECIFIC WALL CONTROLLER OR AUTOMATICALLY IN A DAYLIGHT ZONE TO ADJUST THE LUMEN OUTPUT TO 35 FOOT CANDLES AT 2' 6" ABOVE FINISHED FLOOR. OFF: LIGHT(S) TURN OFF MANUALLY WITH A ZONE SPECIFIC WALL CONTROLLER OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	
(LD2)		SEQUENCE: DIMMED LIGHT(S) ARE DAYLIGHT AND VACANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL CONTROLLER. ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAISED/LOWERED MANUALLY WITH A WALL CONTROLLER OR AUTOMATICALLY IN A DAYLIGHT ZONE TO ADJUST THE LUMEN OUTPUT TO 35 FOOT CANDLES AT 2' 6" ABOVE FINISHED FLOOR. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL CONTROLLER OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	
(LD3)		SEQUENCE: DIMMED LIGHT(S) ARE VACANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE SPECIFIC WALL CONTROLLER. ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAISED/LOWERED MANUALLY WITH A WALL CONTROLLER OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	
(SS1)		SEQUENCE: SITE LIGHT(S) ARE PHOTOCELL AND TIME CONTROLLED ON SITE. ON: LIGHT(S) TURN ON TO FULL OUTPUT AFTER DUSK AND OUTSIDE OF NON-OPERATION HOURS. OFF: LIGHT(S) TURN OFF AT DAWN.	

NOTES:
1. ALL EMERGENCY LIGHT(S) SHALL TURN ON TO FULL OUTPUT WITH LOSS OF NORMAL POWER.
2. EMERGENCY WALL PACKS OR EMERGENCY HEAD LIGHTS SHALL REMAIN OFF UNTIL LOSS OF NORMAL POWER IN SPACE/AREA.
3. REFER TO LOW VOLTAGE LIGHTING DEVICE SCHEDULE FOR ADDITIONAL INFORMATION.
4. PROVIDE UL924 LISTED POWER PACKS AS REQUIRED FOR INSTALLATION.

LIGHTING FIXTURE SCHEDULE															
TYPE	DESCRIPTION	FIXTURE TYPE	LIGHT SOURCE	INPUT WATTS	VOLTS	MOUNTING TYPE	HEIGHT	MANUFACTURER	SPECIFIED FIXTURE						
EMT			K	CRI					MODEL NO.						
E1	EMERGENCY FIXTURES WITH (2) LED HEADS AND BACKUP BATTERY DRIVER.	LED	0		10	120	W	7' 0"	DUAL-LITE	EV-21					
F1	2X4' FLAT PANEL	LED	3500	80	50	120	R	-	LITHONIA COLUMBIA	EPANL-2X4-6000LM-80CRI-35CRI-10W SRP SERIES					
F1E	2X4' FLAT PANEL WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80	50	120	R	-	LITHONIA COLUMBIA	EPANL-2X4-6000LM-80CRI-35CRI-10W-E10WCP SRP SERIES					
F2	2X4' LED BASKET TROFFER	LED	3500	80	32	120	R	-	LITHONIA COLUMBIA	2BLT4-40L-ADSM-MVOLT-E2-LP-R835 LCAT SERIES					
F2E	2X4' LED BASKET TROFFER WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80	32	120	R	-	LITHONIA COLUMBIA HE WILLIAMS	2BLT4-40L-ADSM-MVOLT-E2-LP-R835-EL7L LCAT SERIES					
F3	DIRECT/DIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT RUN. REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE SHALL BE PROVIDED WITH INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80	87	120	P	12' 0"	AXIS LIGHTING	TB2DZLED-300-1000-80-35-S0-BW-8-UNV-0P-1-OS					
F3E	DIRECT/DIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT RUN. REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE SHALL BE PROVIDED WITH 8" SECTION WITH BATTERY BACKUP DRIVER. FIXTURE SHALL BE PROVIDED WITH INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80	87	120	P	12' 0"	AXIS LIGHTING	TB2DZLED-300-1000-80-35-S0-BW-8-UNV-0P-1-88-OS					
F4	DIRECT LINEAR 8' LED PENDANT. FIXTURES SHALL BE PROVIDED WITH INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80	80	120	P	10' 0"	AXIS LIGHTING	TB2DZLED-1000-80-35-BW-8-UNV-0P-1-OS					
F4E	DIRECT LINEAR 8' LED PENDANT WITH EMERGENCY BATTERY BACKUP DRIVER. FIXTURES SHALL BE PROVIDED WITH INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80	80	120	P	10' 0"	AXIS LIGHTING	TB2DZLED-1000-80-35-BW-8-UNV-0P-1-88-OS					
F5	RECESSED 6" DOWNLIGHT, UL VET LISTED, WITH EMERGENCY BATTERY BACKUP DRIVER.	LED	3500	80	29	120	S	-	LITHONIA PRESCOLITE	LDN6-35-15-LO6-AR-LSM-MVOLT-ELR UFR-4RD SERIES					
S1	PENDANT LINEAR STRIP FIXTURE	LED	3500	80	45	120	P	10' 0"	LITHONIA COLUMBIA	CS4-4-S02					
S1E	EXTERIOR WALLPACK	LED	3500	80	15	120	W	11' 0"	LITHONIA BEACON	WVG6Z LED-P2-35K-80CRI-VW-MVOLT-SRM-PE RATIO WALL SERIES					
S2	EXTERIOR WALLPACK WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80	15	120	W	11' 0"	LITHONIA BEACON	WVG6Z LED-P2-35K-80CRI-VW-MVOLT-SRM-PE-E20WC RATIO WALL SERIES					
S2E	EXTERIOR WALL PACK FLOODLIGHT	LED	3000	80	47	120	W	11' 0"	LITHONIA BEACON	WVG6Z LED-P4-30K-80CRI-14M-MVOLT-SRM-PE RATIO WALL SERIES					
S2E	EXTERIOR WALL PACK FLOODLIGHT WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3000	80	47	120	W	11' 0"	LITHONIA BEACON	WVG6Z LED-P4-30K-80CRI-14M-MVOLT-SRM-PE-E20WC RATIO WALL SERIES					
S3	LANDSCAPE FLOODLIGHT	LED	3000	80	21	120	AFG	-	LITHONIA BEACON	DSXF1 LED-P1-30K-FL-MVOLT-15-PE-DBLD RFL2 SERIES					
XA	SINGLE FACE EXIT SIGN WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80	5	120	(none)	-	LITHONIA DUAL LITE	LQM-S-W-MVOLT-EL-NSD EYE SERIES					
XB	DUAL FACE EXIT SIGN WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80	5	120	(none)	-	LITHONIA DUAL LITE	LQM-S-W-MVOLT-EL-NSD EYE SERIES					

A

B

C

D

E

F

G

H

J

K

L

M

N

P

Q

R

S

T

U

Branch Panel: P1																				
Location: KINDER STORAGE 043										Volts: 120/208 Wye										
Supply From: MSB										Phases: 3										
Mounting: Surface										Main Type: MCB										
Enclosure: Type 1										Bus Amps: 225 A										
										MCB Rating: 225 A										
CB Info	CKT	Circuit Description				Amps	Trips	Poles	A	B	C	Poles	Trips	Amps	Circuit Description				CKT	CB Info
	1	CUSTODIAL AND TABLE STG. RECEPTS.				7.5 A	20 A	1	900 VA	360 VA					1	20 A	3 A	CAFETERIA RECEPTS.	2	
	3	KINDER STORAGE RECEPTS.				7.5 A	20 A	1			900 VA	720 VA			1	20 A	6 A	CAFETERIA RECEPTS.	4	
	5	CORRIDOR RECEPTS.				6 A	20 A	1				720 VA	540 VA		1	20 A	4.5 A	CAFETERIA RECEPTS.	6	
	7	CAFETERIA RECEPTS.				3 A	20 A	1	360 VA	180 VA					1	20 A	15 A	BATHROOM CIRCUIT	8	
	9	BOYS RESTROOM RECEPTS.				3 A	20 A	1		360 VA	180 VA				1	20 A	1.5 A	BATHROOM CIRCUIT	10	
	11	GIRLS RESTROOM RECEPTS.				3 A	20 A	1			360 VA	900 VA			1	20 A	7.5 A	ART STG. AND KILN RECEPTS.	12	
	13	ART ROOM RECEPTS.				6 A	20 A	1	720 VA	720 VA					1	20 A	6 A	TEACHERS LOUNGE RECEPTS.	14	
	15	ART ROOM RECEPTS.				4.5 A	20 A	1		540 VA	360 VA				1	20 A	3 A	TEACHERS LOUNGE RECEPTS.	16	
	17	ART ROOM RECEPTS.				4.5 A	20 A	1			540 VA	900 VA			1	20 A	7.5 A	REFRIGERATOR	18	G
G	19	REFRIGERATOR				7.5 A	20 A	1	900 VA	360 VA					1	20 A	3 A	IT RACK	20	
	21	TEACHERS LOUNGE RECEPTS.				4.5 A	20 A	1		540 VA	360 VA				1	20 A	3 A	POS STATION	22	
	23	IT RACK				3 A	20 A	1			360 VA	1000 VA			1	20 A	8.33	PRINTER	24	
	25	DRINKING FOUNTAIN				1.5 A	20 A	1	180 VA	1000 VA					1	20 A	8.33	POWER UNSEX TOILET T13	26	
	27	DRINKING FOUNTAIN				1.5 A	20 A	1		180 VA	1513 VA				1	20 A	12.6	LIGHTING ART 040	28	
	29	LIGHTING CAFETERIA COMMONS 038				8 A	20 A	1			960 VA	325 VA			1	20 A	2.71	EXTERIOR LIGHTING	30	
	31	POWER				3 A	20 A	1	360 VA	1015 VA					1	20 A	8.46	CAFETERIA LIGHTING	32	
	33	CAFETERIA LIGHTING				0.04	20 A	1		5 VA	180 VA				1	20 A	1.5 A	FIRE DOOR	34	
	35	LIGHTING				6.94	15 A	1			833 VA	360 VA			1	20 A	3 A	TEACHERS LOUNGE RECEPTS.	36	
	37	DRINKING FOUNTAIN				1.5 A	20 A	1	180 VA	4992 VA					2	50 A	48 A	KILN	38	
	39	EF-03A				0 A	15 A	1		0 VA	4992 VA				1	20 A	—	SPARE	40	
	41	RECEPTS ART 040				3 A	20 A	1			360 VA	0 VA			1	20 A	—	SPARE	42	
	43	ROOFTOP RECEPTS.				4.5 A	20 A	1	540 VA	0 VA					1	20 A	—	SPARE	44	
	45	ROOFTOP RECEPTS.				7.5 A	20 A	1		900 VA	0 VA				1	20 A	—	SPARE	46	
	47											0 VA			1	20 A	—	SPARE	48	
	49	SPARE				—	20 A	1	0 VA	0 VA					1	20 A	—	SPARE	50	
	51	SPARE				—	20 A	1		0 VA	0 VA				1	20 A	—	SPARE	52	
	53	SPARE				—	20 A	1			0 VA	0 VA			1	20 A	—	SPARE	54	
	55	SPARE				—	20 A	1	0 VA	0 VA					1	20 A	—	SPARE	56	
	57	SPARE				—	20 A	1		0 VA	0 VA				1	20 A	—	SPARE	58	
	59	SPARE				—	20 A	1			0 VA	0 VA			1	20 A	—	SPARE	60	
						Total Load:			12767 VA		11730 VA		8158 VA							
						Tot...			111 A		102 A		68 A							
CIRCUIT BREAKER INFORMATION LEGEND:														ABBREVIATIONS:						
G = GROUND FAULT SENSING														MCB = MAIN CIRCUIT BREAKER						
S = SHUNT TRIP														CB = CIRCUIT BREAKER						
L = LOCK OUT														CKT = CIRCUIT						
A = ARC FAULT INTERRUPTER																				
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals												
HVAC		0 VA		0.00%		0 VA		Total Conn. Load: 32655 VA												
Other		238 VA		100.00%		238 VA		Total Est. Demand: 32655 VA												
Power		28004 VA		100.00%		28004 VA		Total Conn.: 91 A												
Lighting		4413 VA		100.00%		4413 VA		Total Est. Demand: 91 A												
Notes:																				

Branch Panel: K																
Location: KITCHEN 039					Volts: 120/208 Wye					A.I.C. Rating: 10KAIC						
Supply From:					Phases: 3					Mains Type: MCB						
Mounting: Surface					Wires: 4					Bus Amps: 400 A						
Enclosure: Type 1										MCB Rating: 400 A						
CB Info	CKT	Circuit Description	Amps	Trips	Poles	A	B	C	Poles	Trips	Amps	Circuit Description	CKT	CB Info		
	G	1 KITCHEN RECEPTS.	4.5 A	20 A	1	540 VA	1800 VA		1	20 A	15 A	MICROWAVE	2			
	G	3 CONVENIENCE RECEPTS.	3 A	20 A	1		360 VA	600 VA					4			
	G	5 DISPOSER WITH CONTROLS	114 A	20 A	2	1189 VA	600 VA		3	20 A	5 A	EXHAUST HOOD	6			
		7											8			
		9 EXHAUST HOOD	5 A	20 A	3		600 VA	576 VA		1	20 A	4.8 A	MOBILE COMBI OVEN	10	G/S	
		11				600 VA	240 VA		1	20 A	4.8 A	MOBILE COMBI OVEN	12	G/S		
	S	15 MOBILE COMBI OVEN	4.8 A	20 A	1		576 VA	876 VA		1	20 A	7.2 A	FIRS SUPPRESSION SYSTEM	14		
	S	17 MOBILE COMBI OVEN	4.8 A	20 A	1			576 VA	2400 VA	2	30 A	23.0	BLAST CHILLER/FREEZER	16		
	G	19 CONVENIENCE RECEPTACLE	15 A	20 A	1	180 VA	2400 VA		1	20 A	3.5 A	MOBILE HOT SERVING COUNTER	18			
		21 MOBILE MILK COOLER	7.8 A	20 A	1		912 VA	1272 VA		1	20 A	10.6	MIXER (20 QT.)	20	G	
		23								1	20 A	1.5 A	KITCHEN RECEPT	22		
	G	25 DISHWASHER WITH BOOST HEATER	57.3 A	80 A	3	6881 VA	420 VA		1	20 A	3.5 A	MOBILE REFRIDGE COLD PAN COUNTER	24			
		27					6881 VA	7085 VA	3	80 A	59 A	KETTLE (40 GAL.)	26	G/S		
	G/S	31 KETTLE (40 GAL.)	59 A	80 A	3	7085 VA	7085 VA						28			
		33					7085 VA	1920 VA		1	20 A	16 A	WALK-IN COOLER/FREEZER ASSEMBLY	30		
		35 WALK-IN COOLER/FREEZER ASSEMBLY	16 A	20 A	1			1920 VA	988 VA	2	20 A	9.5 A	UNIT COOLER (FREEZER)	32		
		37 UNIT COOLER (COOLER)	0.6 A	20 A	1	72 VA	988 VA						34			
	G	39 MOBILE HOT HOD CAB/PROOF	16 A	20 A	1		1920 VA	793 VA					36			
	G	41 MOBILE HOT HOD CAB/PROOF	16 A	20 A	1			1920 VA	793 VA	3	20 A	6.6 A	DISPOSER WITH CONTROLS	40	G	
	G	43 MOBILE HEATED HOOD CABINET	11.2 A	20 A	1	1344 VA	793 VA						42			
	G	45 MOBILE HEATED HOOD CABINET	11.2 A	20 A	1		1344 VA	625 VA					44			
		47											46			
		49 FREEZER REMOTE COMPRESSOR	9.7 A	20 A	3	1165 VA	625 VA		3	20 A	5.2 A	COOLER REMOTE COMPRESSOR	48			
		51					1165 VA	655 VA		1	20 A	5.46	KITCHEN LIGHTING	50		
	G	53 WASHER	1.5 A	20 A	1			180 VA	400 VA	2	20 A	3.85	DRYER	52	G	
		55 FA22	16 A	20 A	1	1920 VA	400 VA						54			
		57 SPARE	--	20 A	1		0 VA	540 VA		1	20 A	4.5 A	ROLL UP DOOR	56		
		59 SPARE	--	20 A	1			0 VA	540 VA	1	20 A	4.5 A	ROLL UP DOOR	58		
		61 SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	60		
		63 SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	62		
		65 SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	64		
		67 SPARE	--	20 A	1	0 VA	0 VA		0 VA	0 VA	1	20 A	--	SPARE	66	
		69 SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	68		
		71 SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	70	
		73 SPARE	--	20 A	1	0 VA	0 VA			1	20 A	--	SPARE	72		
		75 SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	74		
		77 SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	76	
		79 SPARE	--	20 A	1		0 VA	0 VA		1	20 A	--	SPARE	78		
		81 SPARE	--	20 A	1			0 VA	0 VA	1	20 A	--	SPARE	80		
		83 SPARE	--	20 A	1				0 VA	0 VA	1	20 A	--	SPARE	82	
Total Load						36327 VA	36785 VA	35703 VA								
Tot.:						303 A	296 A	296 A								
CIRCUIT BREAKER INFORMATION LEGEND:										ABBREVIATIONS:						
G = GROUND FAULT SENSING										MCB = MAIN CIRCUIT BREAKER						
S = SHUNT TRIP										CB = CIRCUIT BREAKER						
L = LOCK OUT										CKT = CIRCUIT						
A = ARC FAULT INTERRUPTER																
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals											
HVAC		5369 VA	100.00%	5369 VA												
Kitchen Equipment - Non-Dwelling Unit		4790 VA	65.00%	31140 VA						Total Conn. Load: 105695 VA						
Receptacle		360 VA	100.00%	360 VA						Total Est. Demand: 89128 VA						
Power		51604 VA	100.00%	51604 VA						Total Conn.: 294 A						
Lighting		655 VA	100.00%	655 VA						Total Est. Demand: 247 A						
Notes:																