


INTRODUCTION TO
BLUEPRINT READING
 APPA INSTITUTE FOR FACILITIES MANAGEMENT

AIA
 Continuing
 Education
 Provider



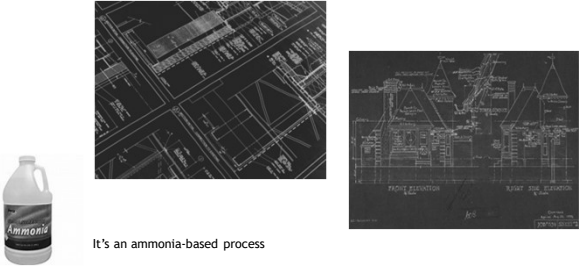
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PRESENTATION OUTLINE

- ▶ DRAWINGS
 - ▶ COVER SHEET
 - ▶ SITE PLANS
 - ▶ ARCHITECTURAL PLANS
 - ▶ ENGINEERING DRAWINGS
 - ▶ DETAILS / SECTIONS / SCHEDULES
- ▶ SPECIFICATIONS
 - ▶ 50 DIVISIONS
- ▶ ADDENDA
- ▶ SUPPLEMENTAL INSTRUCTIONS

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Why are drawings called Blueprints?



It's an ammonia-based process

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Why are drawings called Blueprints?



We only print blueprints since the 1970s

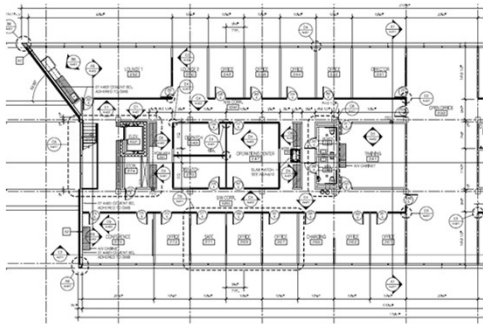
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DRAWING PHASES - Conceptual
Schematic Design (SD)
Design Development (DD)



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Construction Documents (CD's)



What specific documents comprise the construction documents?

1. Drawings
2. Specifications
3. Contract
4. Addendum
5. Change Directives
6. Change Orders
7. Supplemental Instructions

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COVER SHEET

PROJECT TITLE, ARCHITECT/ENGINEER NAME(S), CONTACT INFORMATION,
PROJECT LOCATION MAP, DATE (ISSUED/ BID) AND INDEX OF PLAN SHEETS.

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**THE UNIVERSITY OF IOWA
WEST CAMPUS TRANSPORTATION CENTER**
UI PROJECT No. 0327601

WEST CAMPUS TRANSPORTATION CENTER

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UNIVERSITY OF IOWA
IOWA CITY, IOWA
UI PROJECT NO. 0327601

GENERAL NOTES

- THIS PROJECT IS THE RESULT OF TWO BIDDING PHASES AND IS APPROVED TO BE CONSTRUCTED AS SHOWN ON THE DRAWINGS.
- IF ANY BIDDING PHASES ARE MODIFIED, ANY CHANGES SHOULD BE REFERENCED TO AS BEING MADE BY THROUGHOUT THE DRAWINGS.

**UNIVERSITY OF IOWA
WEST CAMPUS
TRANSPORTATION CENTER**

UI PROJECT NO. 0327601

DATE: 08/26/2022

CS-001

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**UNIVERSITY OF IOWA
FIELD HOUSE - MODIFY
FOR UIHC ENTRY ACCESS**

THE UNIVERSITY OF IOWA
IOWA CITY, IOWA
UI PROJECT NO. 0399101

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**UNIVERSITY OF IOWA
FIELD HOUSE - MODIFY
FOR UIHC ENTRY ACCESS**

UI PROJECT NO. 0399101

DATE: 08/26/2022

CS-001

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**UNIVERSITY OF IOWA
FIELD HOUSE - MODIFY
FOR UIHC ENTRY ACCESS**

THE UNIVERSITY OF IOWA
IOWA CITY, IOWA
U.I. PROJECT NO. 0399101

GENERAL NOTES

1. THIS PROJECT IS THE RESULT OF TWO SETS. ANY CHANGES TO BE MADE TO THIS PROJECT MUST BE APPROVED BY THE ARCHITECT AND THE UNIVERSITY OF IOWA.
2. A REVISION TO THIS PROJECT MUST BE APPROVED BY THE ARCHITECT AND THE UNIVERSITY OF IOWA.

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PROJECT LOCATION

North Arrow

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Library Learning Commons
Renovate First Floor
University of Iowa
125 West Washington Street
Iowa City, IA 52242

U of I # 0318802
U of I # 0402101 Library - Food Service Equipment

BID SET
Issue Date: 06.04.2012

Library Learning Commons - Renovate First Floor

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GENERAL PROJECT NOTES

DESIGN TEAM

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LOCATION MAP

ABBREVIATIONS

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ARCHITECTURAL SYMBOLS & ABBREVIATIONS

MATERIAL SYMBOLS	REFERENCE INDICATIONS																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> COMPACTED EARTH</td> <td style="width: 50%;"> PRECAST CONCRETE</td> </tr> <tr> <td> PROFILED EARTH</td> <td> RIGID INSULATION</td> </tr> <tr> <td> POROUS FILL</td> <td> STEEL</td> </tr> <tr> <td> BRICK</td> <td> PLYWOOD</td> </tr> <tr> <td> CONCRETE MASONRY UNIT</td> <td> ROUGH WOOD</td> </tr> <tr> <td> CONCRETE</td> <td> GROUT</td> </tr> </table>	COMPACTED EARTH	PRECAST CONCRETE	PROFILED EARTH	RIGID INSULATION	POROUS FILL	STEEL	BRICK	PLYWOOD	CONCRETE MASONRY UNIT	ROUGH WOOD	CONCRETE	GROUT	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"> SECTION INDICATION <small>SHEET WIDE SHOW</small></td> <td style="width: 50%;"> OFFICE <small>ROOM NAME ROOM NUMBER</small></td> </tr> <tr> <td> BUILDING SECTION <small>SHEET WIDE SHOW</small></td> <td> ROOM IDENTIFICATION</td> </tr> <tr> <td> WALL SECTION <small>SHEET WIDE SHOW</small></td> <td> ELEVATIONS</td> </tr> <tr> <td> DETAIL <small>SHEET WIDE SHOW</small></td> <td> WALL TYPE</td> </tr> <tr> <td> ELEVATION INDICATION <small>SHEET WIDE SHOW</small></td> <td> DOOR NUMBER</td> </tr> <tr> <td> INTERIOR ELEVATION</td> <td> WINDOW TAG</td> </tr> </table>	SECTION INDICATION <small>SHEET WIDE SHOW</small>	OFFICE <small>ROOM NAME ROOM NUMBER</small>	BUILDING SECTION <small>SHEET WIDE SHOW</small>	ROOM IDENTIFICATION	WALL SECTION <small>SHEET WIDE SHOW</small>	ELEVATIONS	DETAIL <small>SHEET WIDE SHOW</small>	WALL TYPE	ELEVATION INDICATION <small>SHEET WIDE SHOW</small>	DOOR NUMBER	INTERIOR ELEVATION	WINDOW TAG
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JUST LIKE A TABLE OF CONTENTS.
USED TO LOCATE INFORMATION MORE QUICKLY AND ENSURE A COMPLETE SET OF DRAWINGS.

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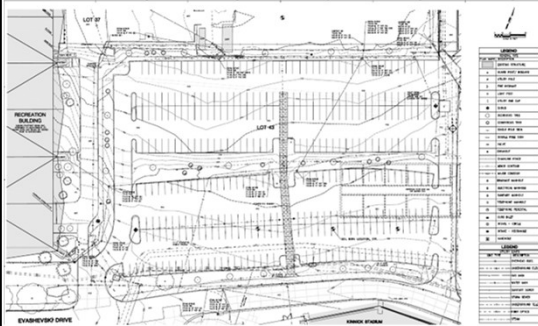
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SITE DRAWINGS

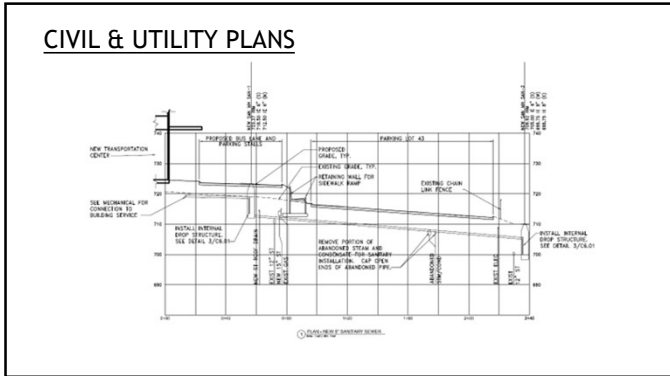
TYPICALLY, "C" SHEETS AND INCLUDE TOPOGRAPHICAL INFORMATION, SOIL BORINGS, SITE DEMOLITION, SITE UTILITY PLANS AND BMP PLANS.

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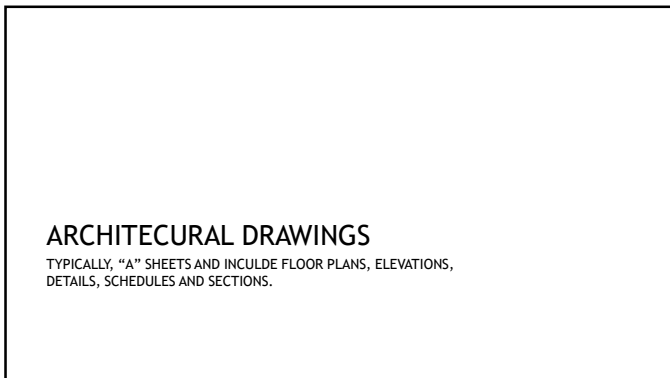
TOPOGRAPHIC INFORMATION



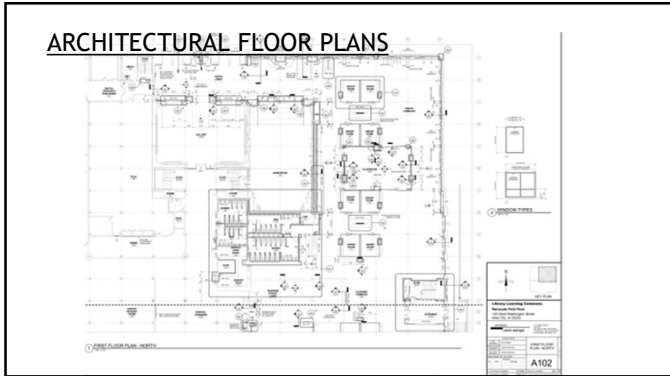
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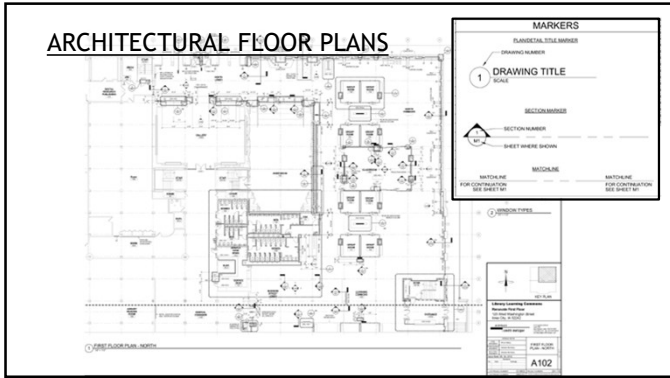
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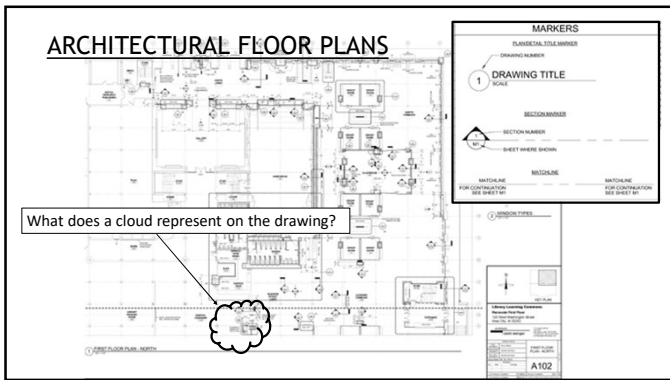
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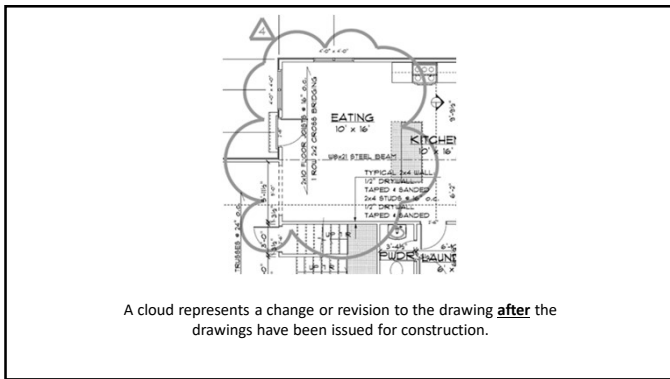
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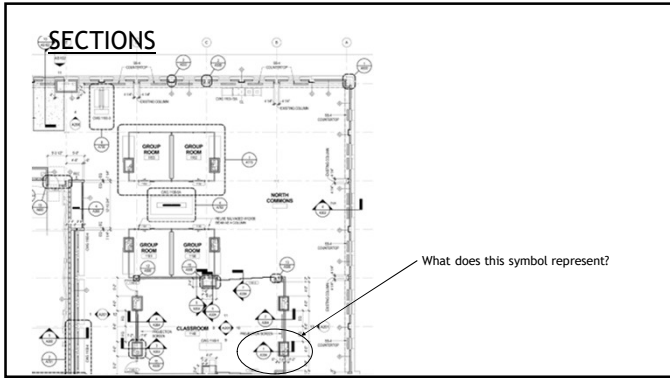
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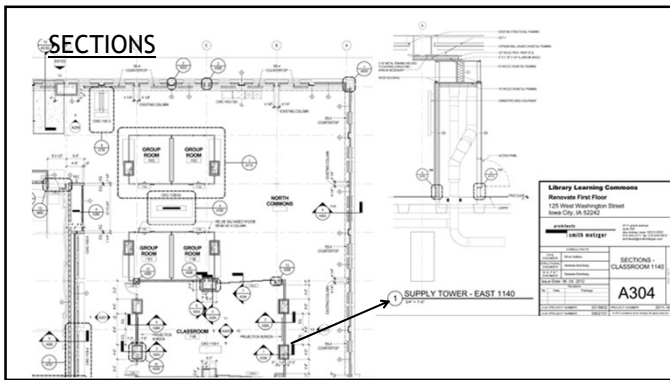
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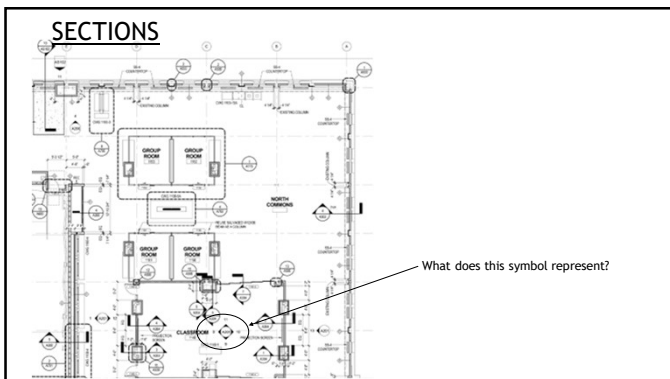
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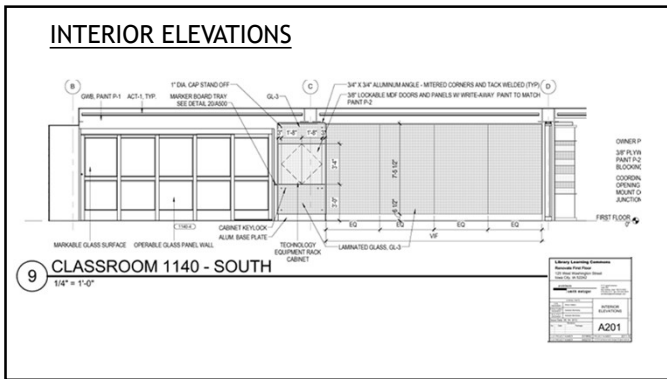
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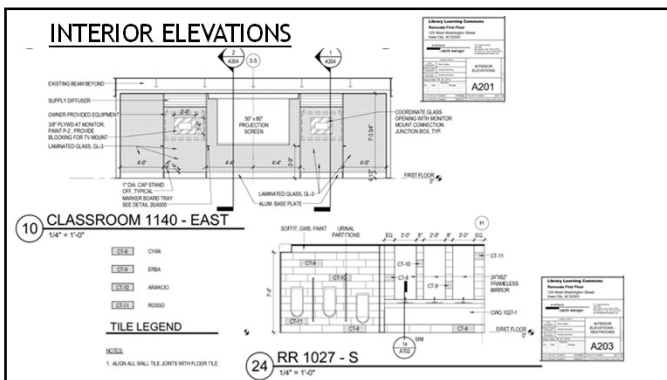
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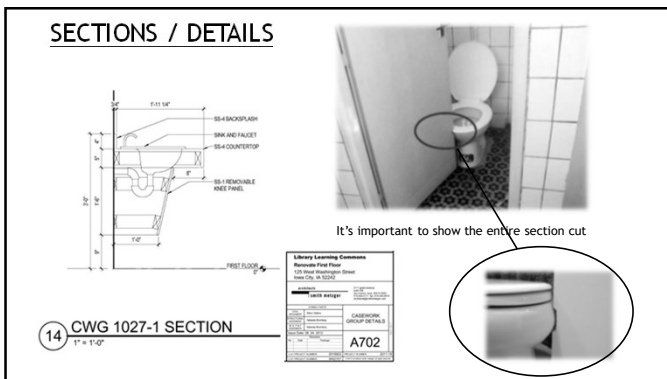
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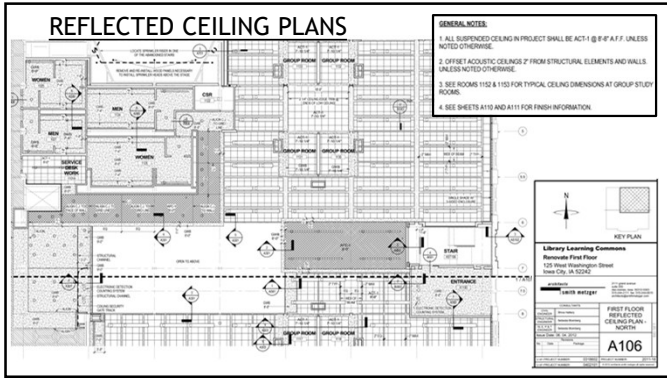


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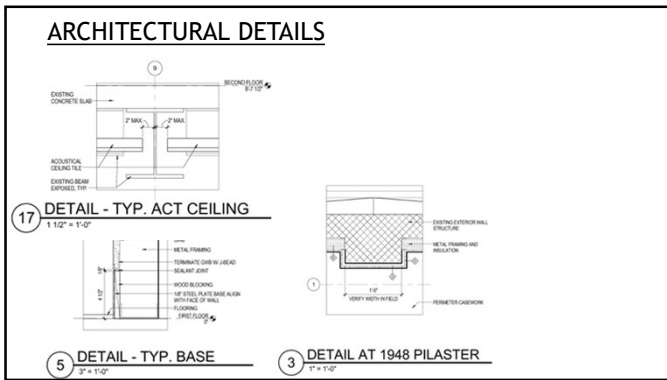


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SCHEDULES - ROOM FINISH SCHEDULE

Room and Finish	Manufacturer	Style/Pattern	Color	Number	Schedule	Description
Board 1 (WB-1)	Various	Various	Various	...	Board 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, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	...

FINISH SCHEDULE

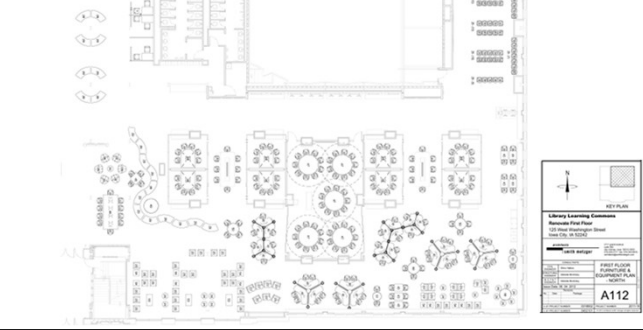
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SCHEDULES - DOOR HARDWARE SCHEDULE

Door Number	Type	Width	Height	Thickness	Material	Fire Rating	Hardware	Type	Depth	Material	Jamb	Head	Comments
1002	F	3'-0"	7'-0"	1 3/4"	HU	-	06	1	5 3/4"	HU	4000 SM	11000 SM	

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FURNITURE PLAN



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INTERIOR SIGNS

Color Number	Type	Message	Notes
2098	14	209 Work Area/Storage	Color Scheme B
210	14	210 (frame insert)	window backer
M210	12	M210 Mechanical	Color Scheme B
211	12	211 Corridor	Color Scheme B
212	14	212 (frame insert)	window backer Color Scheme A
220	13	220 Conference	window backer Color Scheme A
221	13	221	Color Scheme B

C4 SECOND LEVEL STORAGE PLAN

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INTERIOR SIGNS

Sign Type 11 Room Number
38" x 11"

- Tactile 5/16" W/Brhd P/RO Regular Number, Color B
- GRADE 8 BRASS/LL CLEAR
- 1/8" CLEAR MATTE PHOTOPOLYMER SUBSTRATE WITH BECHING SURFACE COLOR COLOR TO MATCH COLOR A

Sign Type 12 Room Identification
38" x 11"

- Tactile 5/16" W/Brhd P/RO Regular Number, Color B
- GRADE 8 BRASS/LL CLEAR
- 5/16" W/Brhd P/RO Regular CORP. PRINTED FIRST SURFACE, COLOR B
- 1/8" CLEAR MATTE PHOTOPOLYMER SUBSTRATE WITH BECHING SURFACE COLOR COLOR TO MATCH COLOR A

Sign Type 13 Conference Room Number
38" x 11"

- Tactile 5/16" W/Brhd P/RO Regular Number, Color B
- GRADE 8 BRASS/LL CLEAR
- 5/16" W/Brhd P/RO Regular CORP. PRINTED FIRST SURFACE, COLOR B
- 1/8" CLEAR MATTE PHOTOPOLYMER SUBSTRATE WITH BECHING SURFACE COLOR COLOR TO MATCH COLOR A
- EXTRUSION ALUMINUM ROLLER STYLE
- GLASS WALL

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ENGINEERING DRAWINGS

TYPICALLY, M-E-P or M-E-P-T SHEETS
MECHANICAL, PLUMBING, FIRE SUPPRESSION, HEATING, VENTILATION & AIR CONDITIONING, ELECTRICAL, TELECOM AND AUDIO/VISUAL

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ENGINEERING DRAWINGS - ABBREVIATIONS AND LEGENDS

PIPELINE SYMBOLS		ABBREVIATIONS	
PIPE LINE SYMBOL	SERVICE	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR	DAW	DOWN SPOT HOLES
IA	INSTRUMENT AIR	DF	DRINKING FOUNTAIN
FOR	FUEL OIL RETURN	DR	DRY RISE
FOS	FUEL OIL SUPPLY	ELEC	ELECTRICAL
FOV	FUEL OIL VENT	EC	ELECTRICAL CONTRACTOR
FRW	REFRIG. FEED WATER	EW	ELECTRIC WATER COOLER
CWS	CHILLED WATER SUPPLY	EL	ELEVATION
CWR	CHILLED WATER RETURN	EAT	ENTERING AIR TEMPERATURE
RS	REFRIGERANT LIQUID	EWT	EXITING WATER TEMPERATURE
RS	REFRIGERANT SUCTON	EQSP	EQUIPMENT
RHS	REFRIGERANT HOT GAS	EP	EXHAUST FAN
CTWS	COOLING TOWER SUPPLY	F	FURNISHES
CTWR	COOLING TOWER RETURN	FFM	FEET PER MINUTE
HWS	HEATING WATER SUPPLY	FPS	FEET PER SECOND
HWR	HEATING WATER RETURN	FE	FIRE EXTINGUISHER
LPS	LOW PRESSURE STEAM (0-15 PSI)	FW	FIRE WYHOIST
LPC	LOW PRESSURE CONDENSATE	FLX	FLEXIBLE
MPS	MEDIUM PRESSURE STEAM (15-75 PSI)	FAT	FLOAT & THERMOSTATIC
MPC	MEDIUM PRESSURE CONDENSATE	FL	FLOOR
HPS	HIGH PRESSURE STEAM (75 PSI & UP)	FOP	FUEL OIL PIP
HPC	HIGH PRESSURE CONDENSATE	FG	FUEL OIL GAUGE
GL	CONDENSATE	GM	GALLONS PER HOUR
COND	CONDENSATE	GM	GALLONS PER MINUTE
PC	PUMP CONDENSATE	GV	GALVANIZED
CW	COLD WATER	GA	GAUGE
HW	HOT WATER	GEN	GENERAL
MS	MISCELLANEOUS	GC	GENERAL CONTRACTOR

SEBESTA BLONBERG
ARCHITECTS

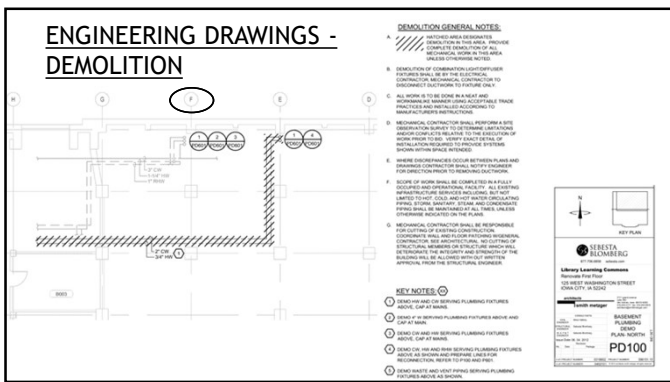
Library Learning Commons
Renovate First Floor
125 WEST WASHINGTON STREET
OSHA CITY, IA 52522

Project: **Library Learning Commons**
Architect: **Sebesta Blomberg**
Contractor: **1818 Hatzler**

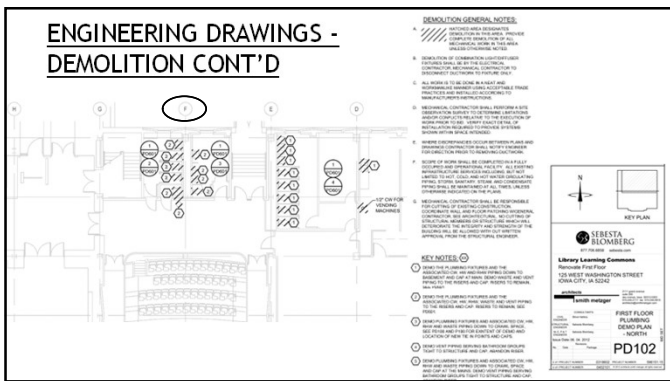
M001

MECHANICAL SYMBOLS AND ABBREVIATIONS

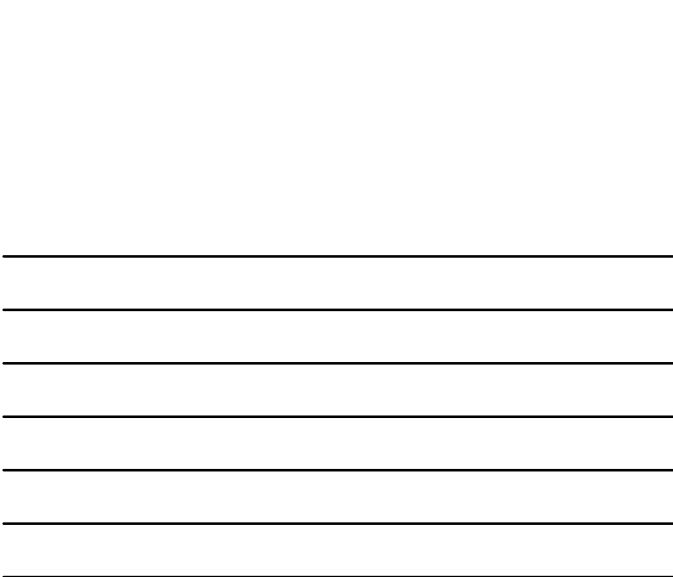
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ENGINEERING DRAWINGS - HVAC

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ENGINEERING DRAWINGS - HVAC - SECTIONS / DETAILS / SCHEDULES

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ENGINEERING DRAWINGS - MECHANICAL CONTROL SEQUENCES

FAN COIL UNIT (INCL. 01)

AREAS SERVED: TELECOM EQUIPMENT ROOMS

GENERAL:

A. PROVIDE A CURRENT SENSOR ON THE FAN MOTOR LEADS TO INDICATE FAN STATUS.

CONTROL SEQUENCE:

A. ZONE TEMPERATURE SETPOINTS

1. FAN COIL UNIT ZONES SHALL HAVE A COOLING SETPOINT OF 52 F (HALL).
2. THE FAN COIL UNIT SUPPLY FAN SHALL OPERATE CONTINUOUSLY REGARDLESS OF BUILDING OCCUPANCY.
3. THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN THE SPACE TEMPERATURE SETPOINT.

DRAIN PAN OVERFLOW:

A. PROVIDE HIGH WATER FLOAT SWITCH IN FAN COIL UNIT DRAIN PAN.

1. UPON ACTIVATION OF HIGH WATER SWITCH, THE CHILLED WATER VALVE SHALL CLOSE AND AN ALARM SHALL BE DISPATCHED OVER THE BUILDING ENERGY MANAGEMENT SYSTEM.
2. THE CHILLED WATER VALVE SHALL REMAIN CLOSED UNTIL OVERFLOW SWITCH IS MANUALLY RESET.

CONTROL POINTS:

A. PROVIDE, AT A MINIMUM, THE FOLLOWING POINTS:

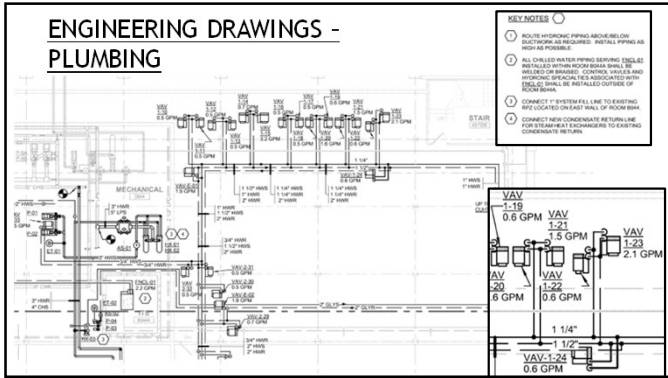
1. FAN START/STOP (DO)
2. FAN STATUS (DI)
3. SPACE TEMPERATURE (AI)
4. CHILLED WATER VALVE (AO)
5. DRAIN PAN OVERFLOW (DI)

ALARMS:

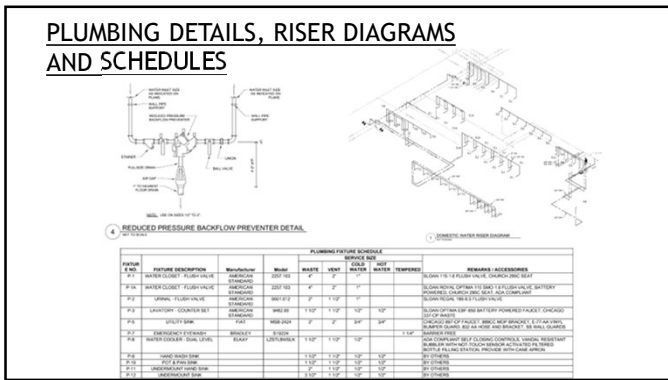
A. ALARMS:

1. FAN FAILURE (ON WHEN COMMANDED OFF OR OFF WHEN COMMANDED ON)
2. SPACE TEMPERATURE ABOVE SETPOINT OF 1.5 MINUTE DELAY (ADD)
3. DRAIN PAN OVERFLOW (MANUAL RESET)

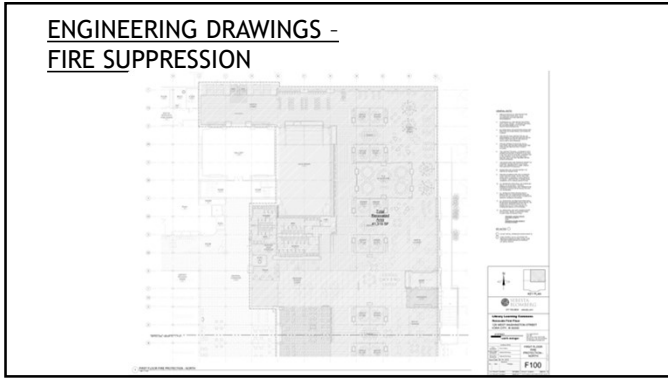
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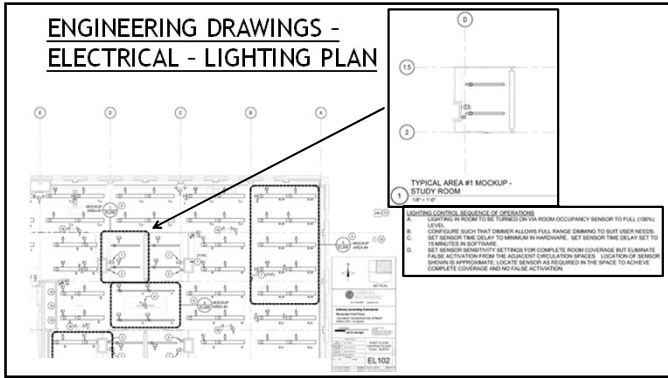
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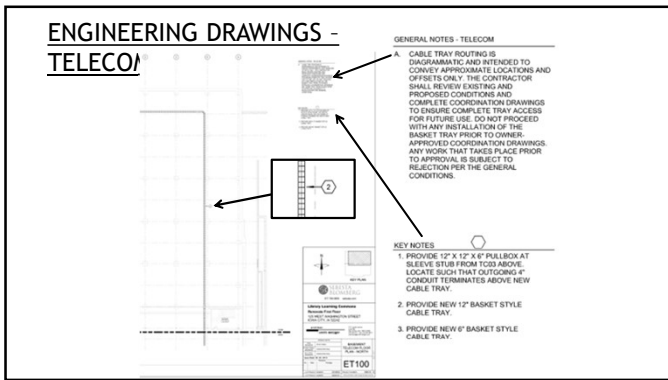
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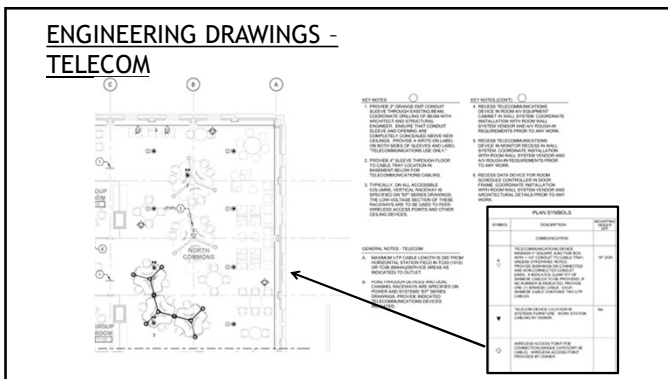
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SPECIFICATIONS

- ▶ FACILITY SERVICES SUBGROUP
 - ▶ DIVISION 21 - FIRE SUPPRESSION
 - ▶ DIVISION 22 - PLUMBING
- ▶ FACILITY SERVICES SUBGROUP CONTINUED
 - ▶ DIVISION 23 - HEATING VENTILATING AND AIR CONDITIONING
 - ▶ DIVISION 25 - INTEGRATED AUTOMATION
 - ▶ DIVISION 26 - ELECTRICAL
 - ▶ DIVISION 27 - COMMUNICATIONS
 - ▶ DIVISION 28 - ELECTRONIC SAFETY AND SECURITY
- ▶ SITE AND INFRASTRUCTURE SUBGROUP
 - ▶ DIVISION 31 - EARTHWORK
 - ▶ DIVISION 32 - EXTERIOR IMPROVEMENTS
 - ▶ DIVISION 33 - UTILITIES
 - ▶ DIVISION 34 - TRANSPORTATION
 - ▶ DIVISION 35 - WATERWAY AND MARINE
- ▶ PROCESS EQUIPMENT SUBGROUP
 - ▶ DIVISION 40 - PROCESS INTEGRATION
 - ▶ DIVISION 41 - MATERIAL PROCESSING AND HANDLING EQUIPMENT
 - ▶ DIVISION 42 - PROCESS HEATING, COOLING AND DRYING EQUIPMENT
 - ▶ DIVISION 43 - PROCESS GAS AND LIQUID HANDLING, PURIFICATION AND STORAGE EQUIPMENT
 - ▶ DIVISION 44 - POLLUTION CONTROL EQUIPMENT
 - ▶ DIVISION 45 - INDUSTRY-SPECIFIC MANUFACTURING EQUIPMENT
 - ▶ DIVISION 48 - ELECTRICAL POWER GENERATION
- ▶ PROCUREMENT AND CONTRACTING REQUIREMENT GROUP
 - ▶ DIVISION 00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
- ▶ GENERAL REQUIREMENTS SUBGROUP
 - ▶ DIVISION 01 - GENERAL REQUIREMENTS
- ▶ FACILITY CONSTRUCTION SUBGROUP
 - ▶ DIVISION 02 - EXISTING CONDITIONS
 - ▶ DIVISION 03 - CONCRETE
 - ▶ DIVISION 04 - MASONRY
 - ▶ DIVISION 05 - METALS
 - ▶ DIVISION 06 - WOOD AND PLASTICS
 - ▶ DIVISION 07 - THERMAL AND MOISTURE PROTECTION
 - ▶ DIVISION 08 - OPENINGS
 - ▶ DIVISION 09 - FINISHES
 - ▶ DIVISION 10 - SPECIALTIES
 - ▶ DIVISION 11 - EQUIPMENT
 - ▶ DIVISION 12 - FURNITURE
 - ▶ DIVISION 13 - SPECIAL CONSTRUCTION
 - ▶ DIVISION 14 - CONVEYING EQUIPMENT

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SPECIFICATIONS

The University of Iowa
West Campus Transportation Center - Construct Facility

FACILITIES MAINTENANCE
Planning, Design & Construction

PROJECT MANUAL
FOR
West Campus Transportation Center - Construct Facility
Project #221001

THE UNIVERSITY OF IOWA
IOWA CITY, IOWA

Volume 1 of 2 - Divisions 1 through 14
Bidding Documents

PRE-BID CONFERENCE: 1:30 p.m., Central Time, 09/20/21
Room 202 - University Services Building

SITE TOUR: Innovations, Materials Pre-Bid Conference

BID DATE: 2:00 p.m., Central Time, 09/22/21
204 University of Iowa
Planning, Design & Construction
250 University Services Building
Iowa City, Iowa 52242-1902

DESIGN PROFESSIONAL: Neumann Marston Architects
221 E. College Street, Suite 303
Iowa City, Iowa

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- 00 01 10 TABLE OF CONTENTS
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- 00 21 13 INSTRUCTIONS TO BIDDERS
- 00 41 13 FORM OF BID FOR CONSTRUCTION CONTRACT
- 00 42 13 BID BOND
- 00 43 25 SUBSTITUTION REQUEST FORM
- 00 43 36 SUBCONTRACTOR LIST
- 00 43 36 ECO DATA REPORTING FORM
- 00 43 37 CERTIFICATE OF REPORTING
- 00 43 40 TARGETED SMALL BUSINESS FORM
- 00 72 13 UNIFORM GENERAL CONDITIONS
- 00 73 13 SUPPLEMENTARY CONDITIONS
- 00 74 13 SPECIAL CONDITIONS

DIVISION 1 - GENERAL REQUIREMENTS

- 01 2023 SUBMITTALS
- 01 2030 INTERFERECTION CONTROL MEASURES
- 01 4000 QUALITY REQUIREMENTS
- 01 5723 20 TEMPORARY STORMWATER POLLUTION CONTROL CERTIFICATION
- 01 5723 20 STORMWATER POLLUTION PREVENTION PLAN
- 01 5723 30 STORMWATER POLLUTION PREVENTION PLAN CONTRACTORS/SUBCONTRACTORS IMPLEMENT MEASURES
- 01 7419 CONSTRUCTION WASTE MANAGEMENT AND DE
- 01 7719 CONTRACT CLOSEOUT
- 01 7823 OPERATION AND MAINTENANCE DATA
- 01 7839 PROJECT RECORD DOCUMENTS
- 01 9113 COMMISSIONING

DIVISION 2 - EXISTING CONDITIONS

- 02 4100 DEMOLITION
- 02 4110 SELECTIVE SITE DEMOLITION

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ADDENDA

ISSUED AFTER PROJECT HAS BEEN ADVERTISED BUT BEFORE BIDS ARE RECEIVED...

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ADDENDA

FIELD HOUSE
MODIFY FOR UHC ENTRY ACCESS

DOCUMENT 00 31 13
ADDENDUM #1

FIELD HOUSE
MODIFY FOR UHC ENTRY ACCESS
UI #0399101

BID DATE: SEPTEMBER 13, 2012, 2:00 P.M. CENTRAL TIME

The information contained in this Addendum modifies, supplements or replaces information contained in the Project Manual and on the Drawings and is hereby made a part of the Contract Documents.

Acknowledge receipt of this Addendum by placing the appropriate addendum number in the blank on the Bid Form.

ADDENDUM INDEX

APPLICABLE TO THE PROJECT MANUAL: Item #1 through Item #20 inclusive.

APPLICABLE TO THE DRAWINGS: Item #21 through Item #39 inclusive.

ATTACHMENT(S): List of Plan Holders
Supplemental Drawings C.01, A.01

APPLICABLE TO THE PROJECT MANUAL:

ITEM #1 SECTION #00 45 14 – TELECOMMUNICATION QUALIFICATION REQUIREMENTS

A. **ADD** the following as approved Telecommunication subcontractors for this project: "Tri-City Electric Company, 6225 North Brady Street, Davenport, IA 52806, 563-322-7181; and Communications Engineering Company, 409 Keyson Road, Hawaiian, IA 52233, 319-731-1220."

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ADDENDA

APPLICABLE TO THE DRAWINGS:

ITEM #21 SHEET #C4.02 – UTILITY PROFILES

A. **ADD** tracer wire and locator wire terminal box to the profile, and several detail references to the call-out notes. Refer to attached Supplemental Drawing C.01.

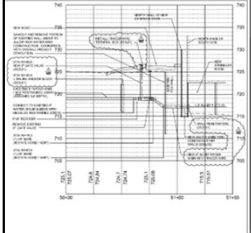
ITEM #22 SHEET #C5.01 – SITE UTILITY DETAILS

A. **REVISE** the "steel plate" notes on the Typical Section of Detail 7 (Open-Throat Curb Intake Under Pavement) to read: "Steel plate by Bid Package #2 contractor as needed to accommodate staged construction."

B. **DELETE** the "Base by Bid Package #1 contractor" note on the Typical Section of Detail 7 (Open-Throat Curb Intake Under Pavement).

C. **ADD** text (bolded, below) to the new water main assembly call-out of Detail 5 (IN-LINE ANCHOR BLOCK - SECTION) to read as follows:

"New R/I DIP water main with mechanical joint fittings, valve, and cap (use EBAA Iron Megalug Series 1100)"



PROFILE VIEW WATER MAIN

SHIVEHATTERY

WISCONSIN PROFESSIONAL ENGINEER

PROJECT NO. 1202220001

SHEET NO. C.01

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SUPPLEMENTAL INSTRUCTIONS

ISSUED AFTER CONTRACT HAS BEEN AWARDED TO A GENERAL CONTRACTOR...

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ACTIVITY QUESTIONS

- ▶ **BOYD LAW / ECKSTEIN / CURRIER RESIDENCE / VAN ALLEN**
- ▶ WHAT DOES THE SCOPE OF THE PROJECT COVER?
- ▶ WHAT TYPE OF FLOORING IS GOING BACK IN?
- ▶ DOES THE PROJECT INCLUDE ANY
 - ▶ BID ALLOWANCES?
 - ▶ BID ALTERNATES?
 - ▶ UNIT PRICES?
- ▶ WERE PLANS CHANGED BY ADDENDA?
- ▶ WHAT IS THE PROJECT DURATION?
- ▶ WHAT SPECIALTY ITEMS ARE INCLUDED IN THE PROJECT?
- ▶ IS LIGHTING BEING REPLACED?
- ▶ IS HVAC BEING UPGRADED?
- ▶ ARE DOOR AND DOOR FRAMES BEING REPLACED ALONG WITH ACCESS SECURITY UPGRADES?

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Questions?...

Now let's do an exercise

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