

**DOCUMENT 00 90 00
ADDENDUM**

ADDENDUM NO. [1] Date: February 17, 2020

**RE: WESTERN TECHNICAL COLLEGE
 APPRENTICESHIP CENTER REMODEL
 2860 21ST PLACE SOUTH
 LA CROSSE, WISCONSIN 54601
 HSR PROJECT NO. 19021**

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

To: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated February 2020. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of [2] page, [1] specification sections and [9] 30 x 42 drawings.

CHANGES TO SPECIFICATIONS:

1. Section 01 21 00 ALLOWANCES
 - a. Section attached hereto as part of the Contract Documents.

2. Section 08 71 00 DOOR HARDWARE
 - a. 3.04: Replace Group 1 with the following:

HARDWARE GROUP 1

EACH PAIR OF ALUM DOORS TO HAVE:
DR.100A

2 EA	CONTINUOUS HINGES	BY ALUM DR/FR SUPPLIER	
1 EA	RIM EXIT DEVICE	99NL-OP X 110MD 626	VONDUPRIN
1 EA	RIM EXIT DEVICE	99EO 626	VONDUPRIN
1 EA	RIM CYLINDER WITH CORE	MBS-ICR X MBS-IC7 626	MBS
2 EA	OFFSET PULLS	BF157 US32D	ROCKWOOD
2 EA	ELECTRIC STRIKES	6300 US32D	VONDUPRIN
1 EA	CLOSERS	4111 EDA 689	LCN
1 EA	DROP PLATES	4110-18 689	LCN
1 EA	CUSH SHOE SUPPORT	4110-30 689	LCN
1 EA	SENIOR SWING OPERATOR	9542 REG 689	LCN
1 EA	BOLLARD	8310-866	LCN
2 EA	ACTUATORS	8310-853T	LCN
1 EA	WEATHER SEAL	8310-801	LCN
2 EA	THRESHOLD	S425A36	REESE
1 EA	WEATHERSTRIP/SWEEP	BY ALUM DR/FR SUPPLIER	

1 EA CARD READER BY ACCESS CONTROL VENDOR
SWIPE CARD TO ACCESS AREA AFTER HOURS OR BEGINNING OF DAY. SWIPE CARD TO ACCESS AREA AFTER HOURS OR BEGINNING OF DAY. CARD READER, DPS AND POWER SUPPLY BY ACCESS CONTROL VENDOR

3. Section 08 80 00 GLAZING
 - a. GLT-9 is shown in wall type D12 to allow viewing of piping inside of wall.

CHANGES TO DRAWINGS

4. Sheet C200 LAYOUT PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
5. Sheet A100 FIRST FLOOR REMODEL PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
6. Sheet A120 ROOF 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.
7. Sheet P090 PLUMBING UNDERFLOOR DEMOLITION PLAN 30 x 42 attached hereto.
 - a. Revisions clouded on Drawing.
8. Sheet P091 PLUMBING FIRS FLOOR DEMOLITION PLAN 30 x 42 attached hereto.
 - a. Revisions clouded on Drawing.
9. Sheet P101 PLUMBING FIRST FLOOR PLAN – NEW WORK 30 x 42 attached hereto.
 - a. Revisions clouded on Drawing.
10. Sheet P200 PLUMBING ENLARGED UNDERFLOOR PLAN 30 x 42 attached hereto.
 - a. Revisions clouded on Drawing.
11. Sheet P201 PLUMBING ENLARGED FIRST FLOOR PLAN 30 x 42 attached hereto.
 - a. Revisions clouded on Drawing.
12. Sheet E202R ENGLARGED POWER PLAN 30 x 42 attached hereto
 - a. Revisions clouded on Drawing.

PRIOR APPROVALS

1. Section 07 21 19 FOAMED IN PLACE INSULATION
 - a. SWD Urethane

END OF DOCUMENT 00 90 00

SECTION 01 21 00

ALLOWANCES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Cash allowances.
- B. Inspecting and testing allowances.

1.02 CASH ALLOWANCES

- A. The Contract Sum shall include allowances as indicated herein and all other expenses/costs in accord with Paragraph 3.8 "Allowances" of the General Conditions.
- B. Materials and services included in the Contract as an allowance shall be guaranteed in the same manner as all other materials and services specified in the Contract Documents.
- C. Allowances shall be reconciled with the actual cost of the work performed under the allowance by Change Order, including situations where the allowance amount and actual cost amount are the same

1.03 GENERAL

- A. Architect Responsibilities:
 - 1. Consult with Contractor for consideration and selection of products, suppliers, and installers.
 - 2. Select products in consultation with Owner and transmit decision to Contractor.
 - 3. Prepare Change Order.
- B. Contractor Responsibilities:
 - 1. Assist Architect in selection of products, suppliers, and installers.
 - 2. Obtain proposals from suppliers and installers and offer recommendations.
 - 3. On notification of which products have been selected, execute purchase agreement with designated supplier and installer.
 - 4. Arrange for and process shop drawings, product data, and samples. Arrange for delivery.
 - 5. Promptly inspect products upon delivery for completeness, damage, and defects. Submit claims for transportation damage.
- C. Differences in costs will be adjusted by Change Order.

1.04 EXCESS MATERIALS

- A. Submit invoices or delivery slips to indicate the actual quantities of materials delivered to the Project Site for use in fulfillment of each allowance.
- B. Where economically feasible and so requested by the AE, return unused materials to manufacturer/supplier for credit to the Owner, after the installation has been completed and accepted. Where not economically feasible, prepare unused materials for the Owner's storage and deliver to the Owner's storage space as directed. Otherwise disposal of excess materials is the Contractor's responsibility

1.05 INSPECTING AND TESTING ALLOWANCES

- A. Costs Included in Inspecting and Testing Allowances: Cost of engaging an inspecting or testing agency; execution of inspecting and tests; and reporting results.
- B. Costs Not Included in the Inspecting and Testing Allowances:
 - 1. Costs of incidental labor and facilities required to assist inspecting or testing agency.
 - 2. Costs of testing services used by Contractor separate from Contract Document requirements.
 - 3. Costs of retesting upon failure of previous tests as determined by Architect.
- C. Payment Procedures:
 - 1. Submit one copy of the inspecting or testing firm's invoice with next application for payment.
 - 2. Pay invoice on approval by Architect.
- D. Differences in cost will be adjusted by Change Order.

1.06 ALLOWANCES SCHEDULE

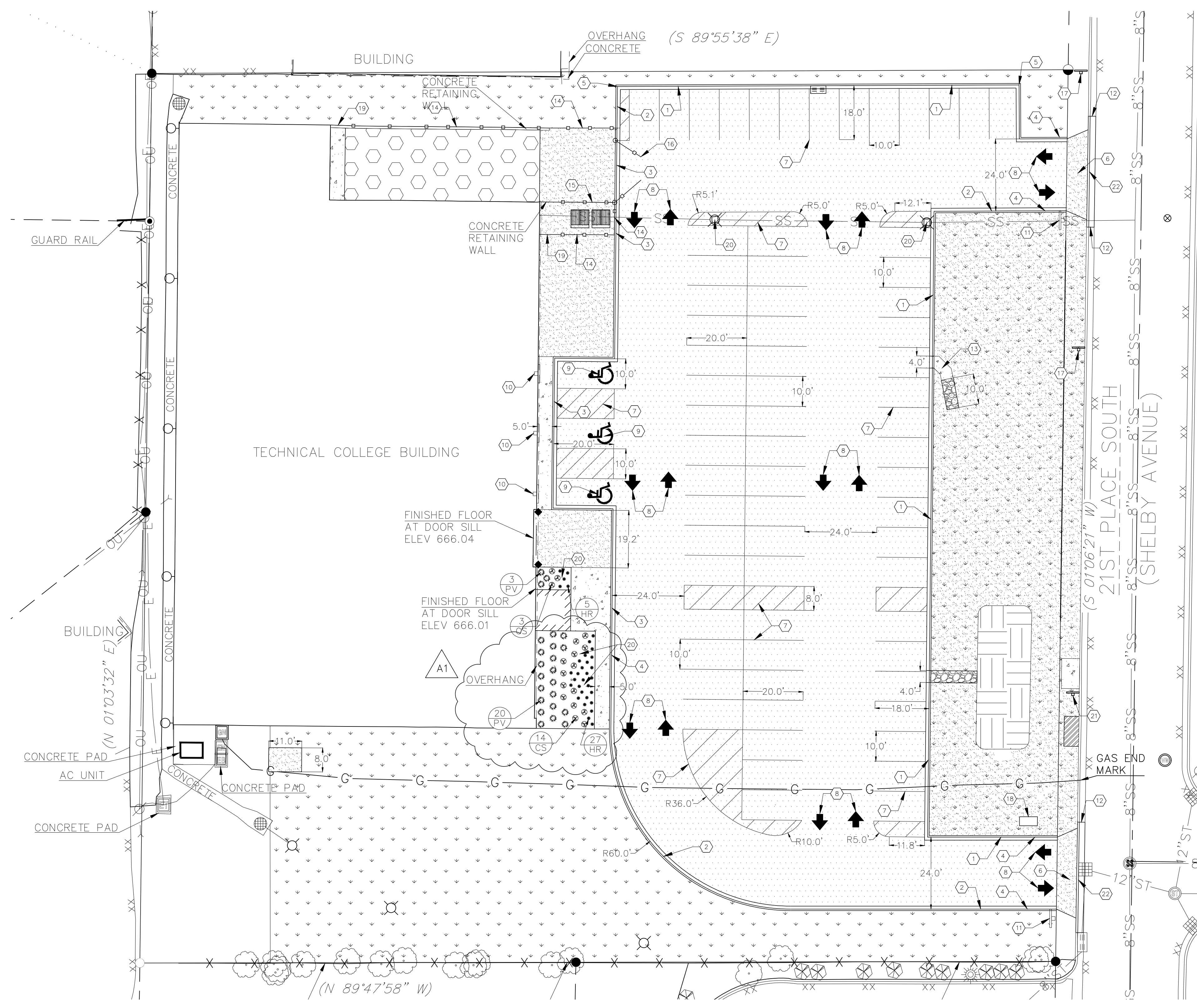
- A. The Electrical Contractor shall include a stipulated sum of \$45,000 in their bid for Electrical Components to be purchased for the Industrial Electrical Apprenticeship Department. These components will be purchased by the Electrical Contractor and installed into nine (9) control panels by

the Industrial Electrical Apprenticeship Department, refer to Key note #14 on sheet E203 for location and reference to control panels.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION



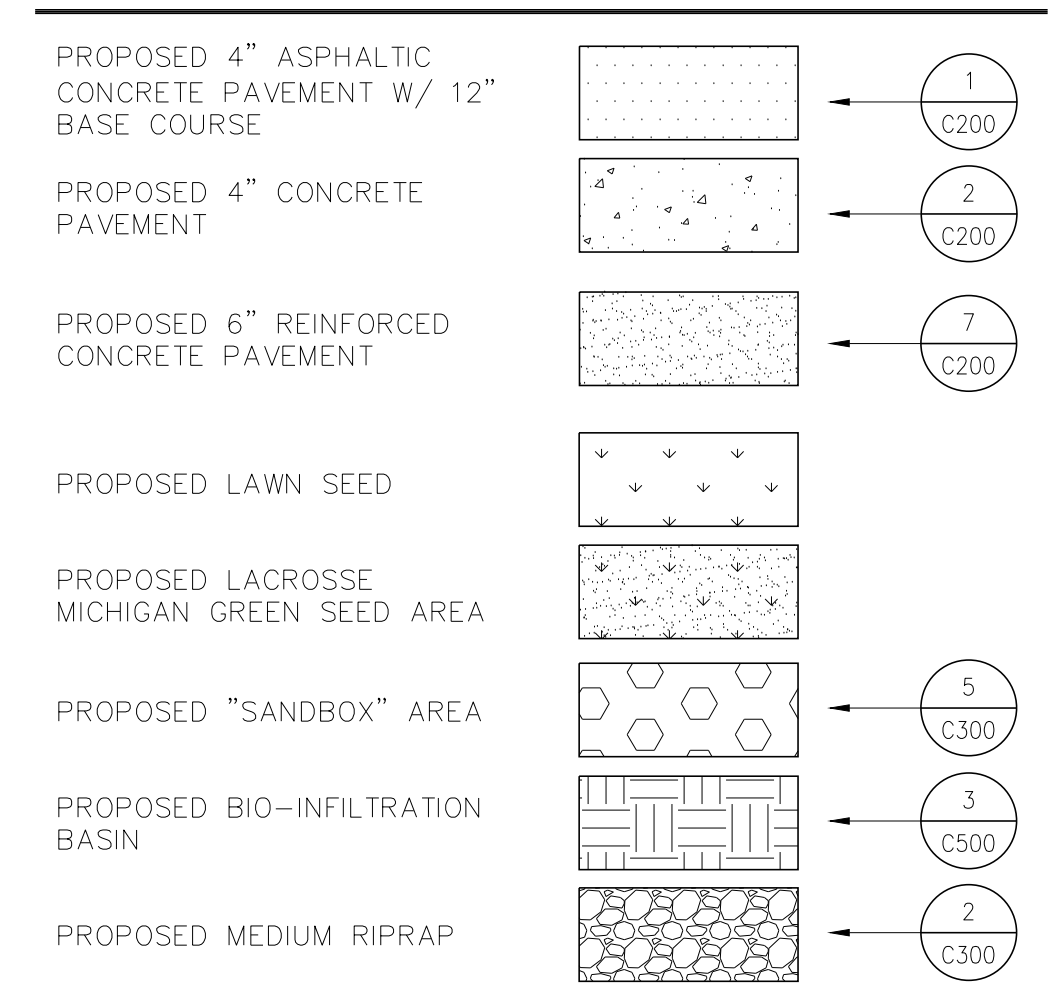
GENERAL NOTES:

- CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
- ALL REQUIRED EROSION CONTROL MEASURES ARE TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
- SEE SHEET C400 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
- ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR AND INCLUDED IN THE BASE BID CONTRACT.
- VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
- ALL BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- PRIOR TO THE START OF WORK VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
- COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
- PROVIDE PROPER BARRICADES, SIGNS AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS.
- SIDEWALK JOINTS TO BE AS INDICATED OR AS APPROVED BY CONSTRUCTION MANAGER.
- ALL SAWCUTS SHALL BE AT AN EXISTING JOINT IN THE CURB AND PAVEMENT.
- ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED/FERTILIZED/GRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- THE LOCATIONS, DEPTHS, SIZES AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES SHOWN HEREON WERE OBTAINED FROM VISUAL INSPECTION, FIELD MEASUREMENTS, AND/OR AS-BUILT PLANS. THE LOCATIONS SHOWN HEREON ARE ONLY APPROXIMATE, AND ADDITIONAL UTILITY LINES NOT DISCOVERED, OR MARKED, DURING THE SEARCH OF RECORDS AND THE FIELD SURVEY MAY EXIST. ANY CONTRACTOR USING THE INFORMATION SHOWN HEREON IS HEREBY FOREWARNED THAT ANY EXCAVATION UPON THIS SITE MAY RESULT IN THE DISCOVERY OF ADDITIONAL UNDERGROUND UTILITIES NOT SHOWN HEREON. POB MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE EXISTING UTILITIES SHOWN HEREON. PRIOR TO CONSTRUCTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY LOCATIONS, DEPTHS, SIZES AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES WITHIN THE CONSTRUCTION LIMITS AND SHALL BRING FORWARD, IN WRITING TO THE ENGINEER OF RECORD, ALL DISCREPANCIES THAT DO NOT ALIGN WITH THE EXISTING CONDITIONS AS SHOWN HEREON.

KEYNOTES:

- | | |
|--|---|
| 1) 18" CONCRETE CURB & GUTTER | 5) CONCRETE FLUME W/ RIP RAP |
| 2) 18" CONCRETE CURB & GUTTER (REJECT) | 14) INSTALL 8' TALL FENCE W/ PRIVACY SLATS |
| 3) 18" DRIVE-OVER CURB & GUTTER (REJECT) | 15) INSTALL 16' CANTILEVER GATE W/ PRIVACY SLATS |
| 4) 6" CURB TAPER SECTION | 16) INSTALL 20' VEHICLE GATE W/ PRIVACY SLATS |
| 5) STANDARD CURB TO REJECT CURB TRANSITION POINT | 17) INSTALL SALVAGED "NO PARKING" SIGNS |
| 6) DRIVE APRON | 18) INSTALL "WEAVER CENTER" SIGN (BY OTHERS) |
| 7) PARKING LOT STRIPING | 19) INSTALL 5' PEDESTRIAN GATE W/ PRIVACY SLATS |
| 8) DIRECTIONAL ARROW | 20) ADJUST CLEAN OUT TO GRADE |
| 9) HANDICAP PARKING STALL | 21) INSTALL SALVAGED "BUS STOP" & "NO PARKING" SIGN |
| 10) HANDICAP PARKING SIGN (WALL MOUNTED) | 22) 30" CONCRETE CURB & GUTTER |
| 11) STOP SIGN | |
| 12) DOWEL CURBING TO EXISTING WITH 2-#5 AT 18", EMBEDDED 6" TYP. | |

PAVEMENT HATCH PATTERNS:

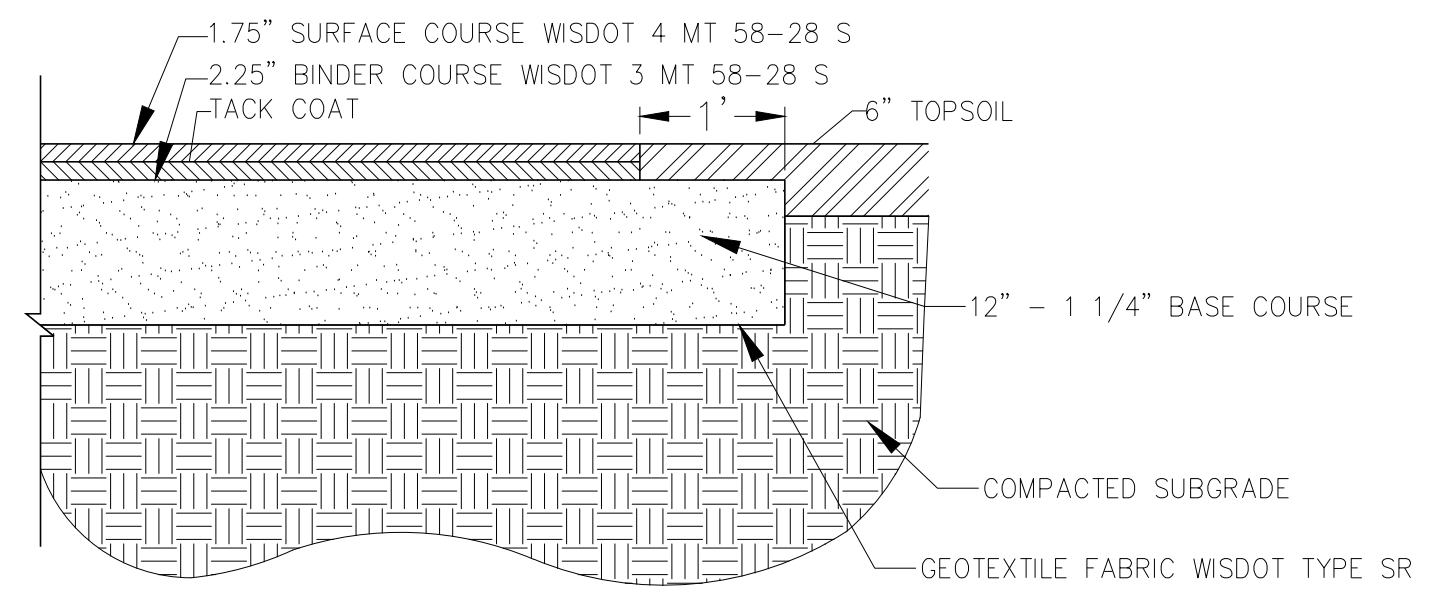


LANDSCAPE GENERAL NOTES:

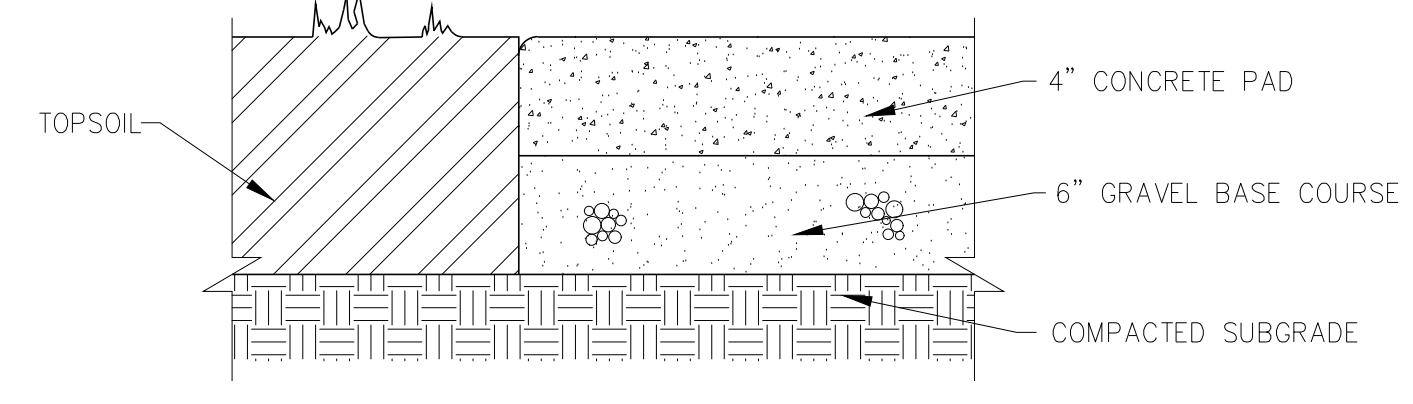
- 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING.
- SEED/FERTILIZE/GRIMP HAY MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION.
- ALL PLANT MATERIALS LISTED SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION FOR THE SIZES GIVEN.
- ALL TREES SHALL BE STAKED WITH A MINIMUM OF THREE STAKES.
- CURV-WRITE LANDSCAPE EDGING OR APPROVED EQUAL SHALL BE PLACED AROUND ALL LANDSCAPE BEDS.
- 3" DEPTH OF SHREDDED HARDWOOD BARK MULCH SHALL BE PLACED IN ALL PLANTING BEDS.
- 20-YEAR WEED BARRIER FABRIC SHALL BE PLACED BENEATH ALL BARK MULCH.
- COORDINATE ALL LANDSCAPE WORK WITH GAS, ELECTRIC (INCLUDING MAIN SERVICE), SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.

PLANTING SCHEDULE:

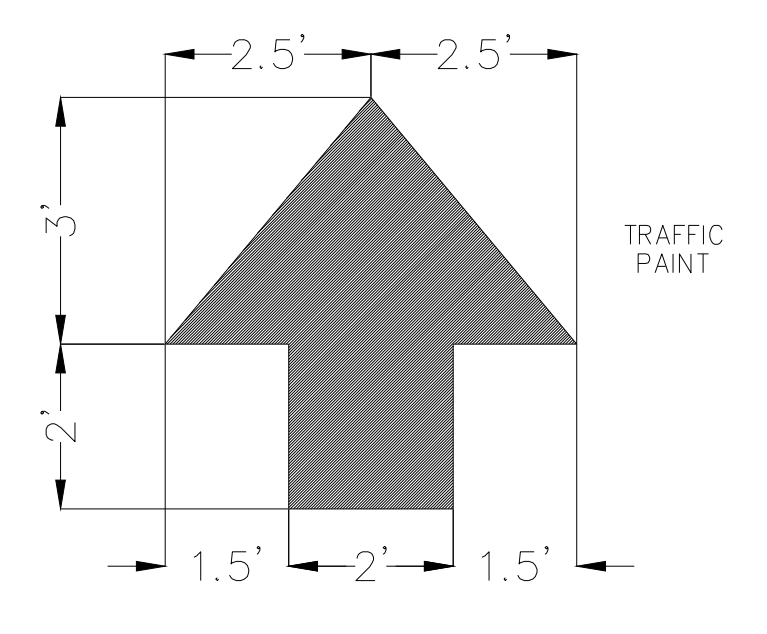
SHRUBS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
CS	CORNUS SERICEA 'VELSEY'	KELSEY'S DWARF RED-OSGER DOGWOOD	3 GAL.	24-30" T & W	19
ORNAMENTAL GRASS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	2 GAL.	4' T X 2-3' W	16
PERENNIALS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
HR	HEMEROCALLIS X 'ROSY RETURNS'	ROSY RETURNS DAYLILY	1 GAL.	12-15" T X 10-12" W	11



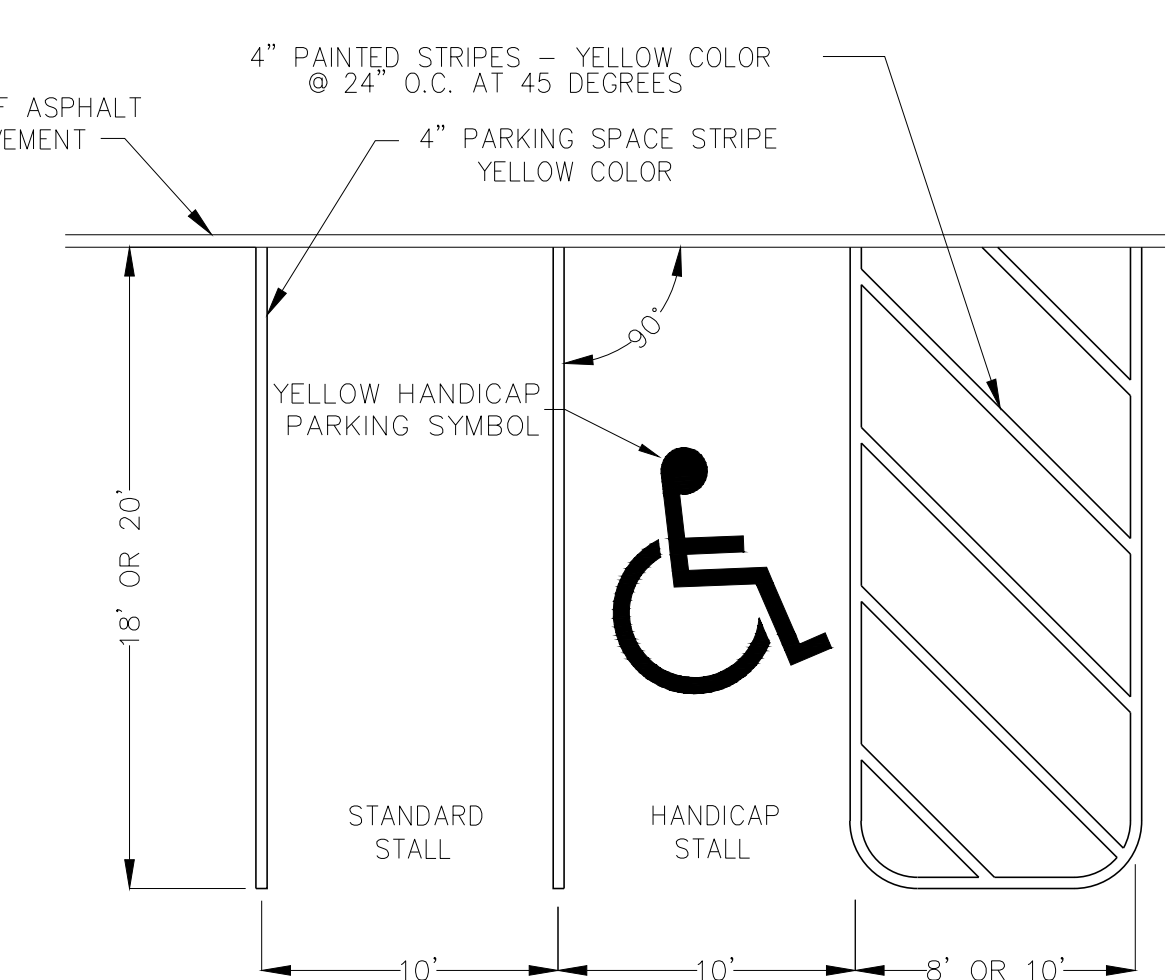
4" ASPHALTIC PAVEMENT (1) C200



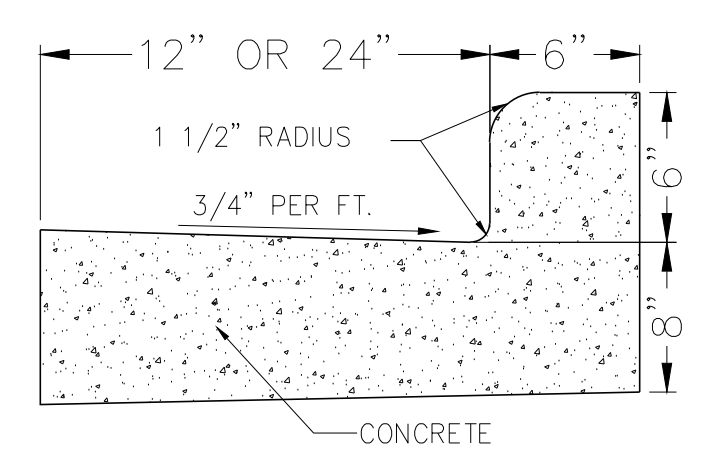
4" CONCRETE PAVEMENT (2) C200



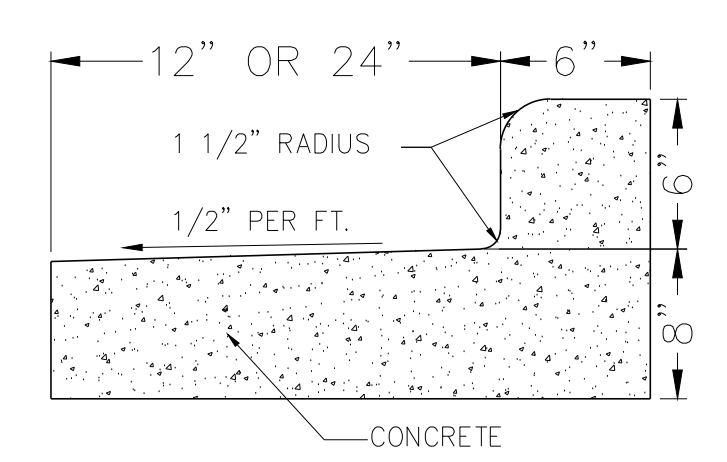
DIRECTIONAL ARROWS (3) C200



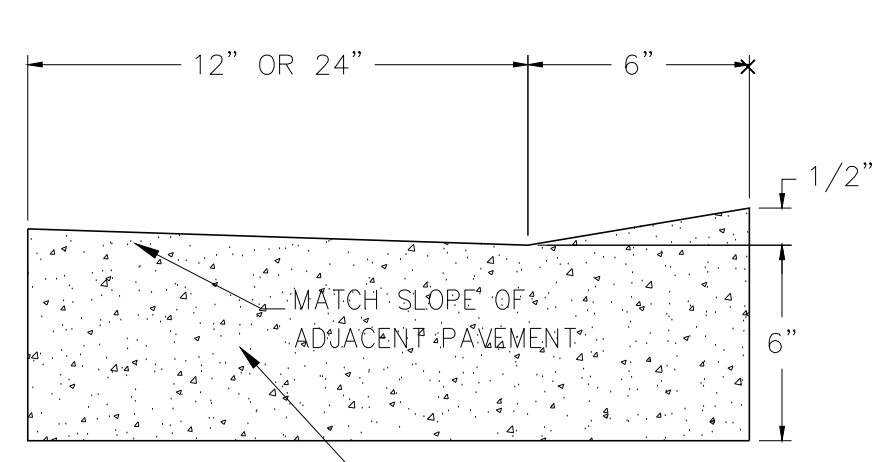
90° PARKING LOT STRIPING (4) C200



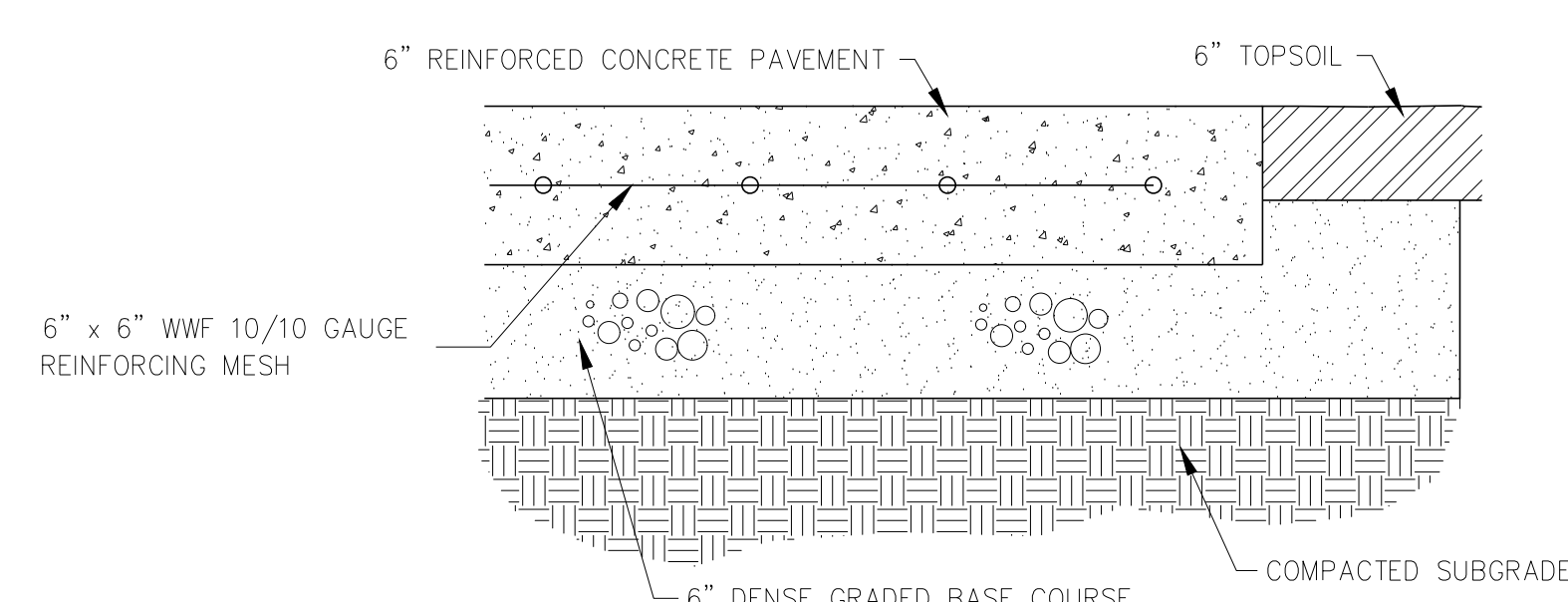
STANDARD CURB



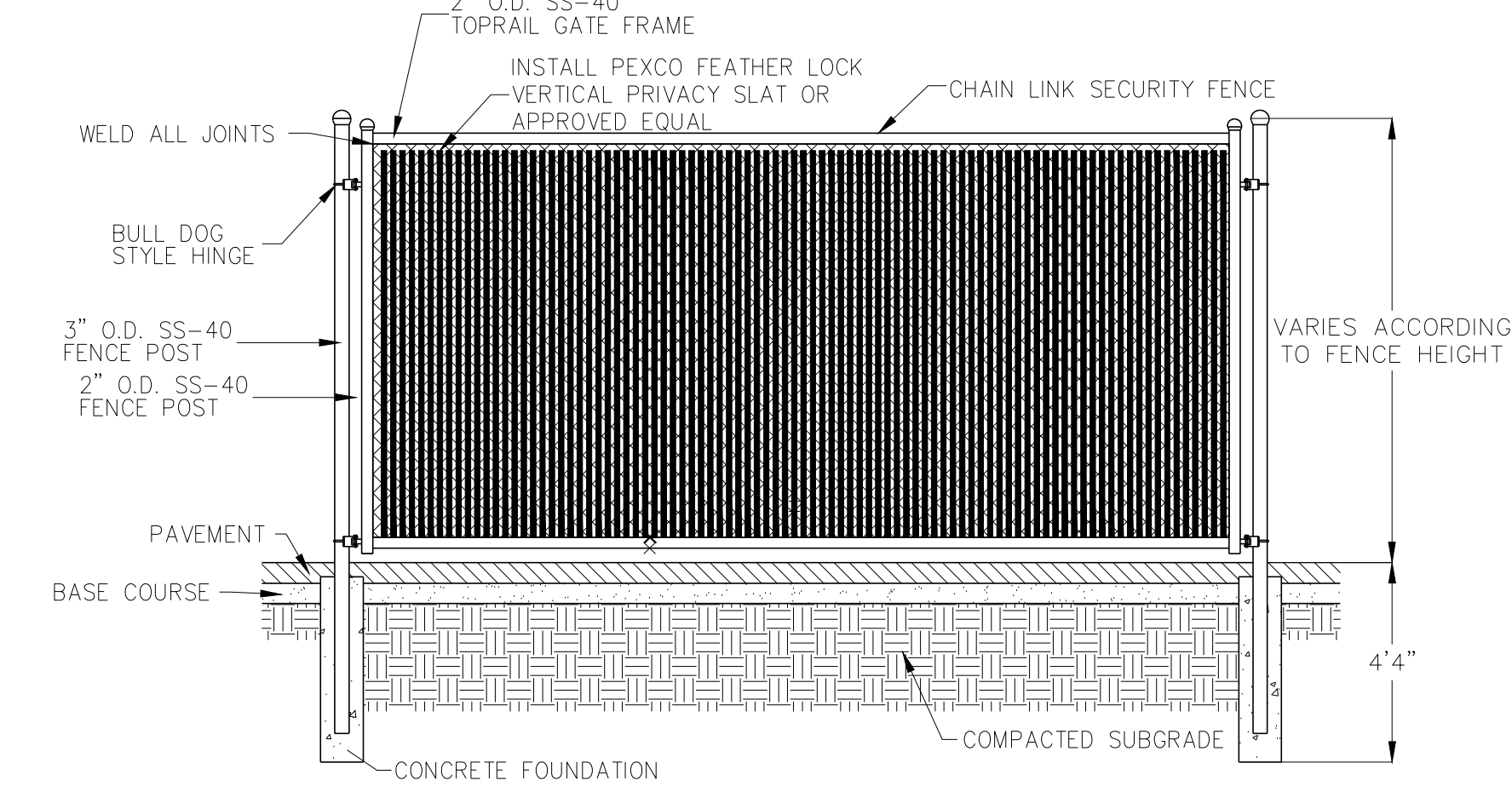
REJECT CURB



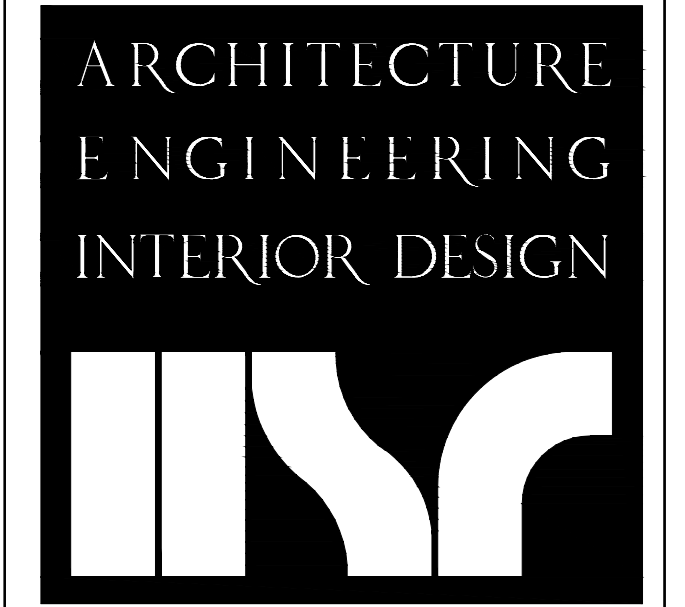
DRIVE OVER CURB (6) C200



REINFORCED CONCRETE (7) C200



CHAIN LINK PRIVACY FENCE (8) C200



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WESTERN TECHNICAL COLLEGE APPRENTICESHIP CENTER
 Project Location: 2860 21ST PLACE SOUTH LA CROSSE, WI 54601
 Sheet Title: **LANDSCAPE PLAN**

Project Title:
 HSR Project Number:
 19021

Project Date:
 02-04-2020

Drawn By:
 AAS

Key Plan:



Scale 1"=20'

Revisions:
 2/17/20 - ADDENDUM 1

Graphic Scale:
 1"=20'

Last Update:
 2/14/2020

C200



Consultant:

WESTERN TECHNICAL COLLEGE
APPRENTICESHIP CENTER REMODEL
FIRST FLOOR REMODEL PLAN

Project Title:
Project Location: 2860 21ST PL S
LA CROSSE, WI 54601

Project Number:
19021
Project Date:
FEBRUARY 2020
Drawn By:
M.MALAND

Key Plan:

No.	Description	Date
A01	ADDENDUM #1	02/17/2020

Graphic Scale:
VARIES
Last Update:
2/17/2020 8:05:33 AM

A100

OWNER EQUIPMENT LIST

- MARVEL BAND SAW
- DAKE PRESS
- BVA PRESS
- BRIDGE PORT MILL
- SAND BLAST CABINET
- LATHE
- LARGE PEDESTAL GRINDER
- SMALL PEDESTAL GRINDER
- IRON WORKS
- NEW DRILL PRESS
- OLD DRILL PRESS
- ELLIS BANDSAW

GENERAL NOTES:

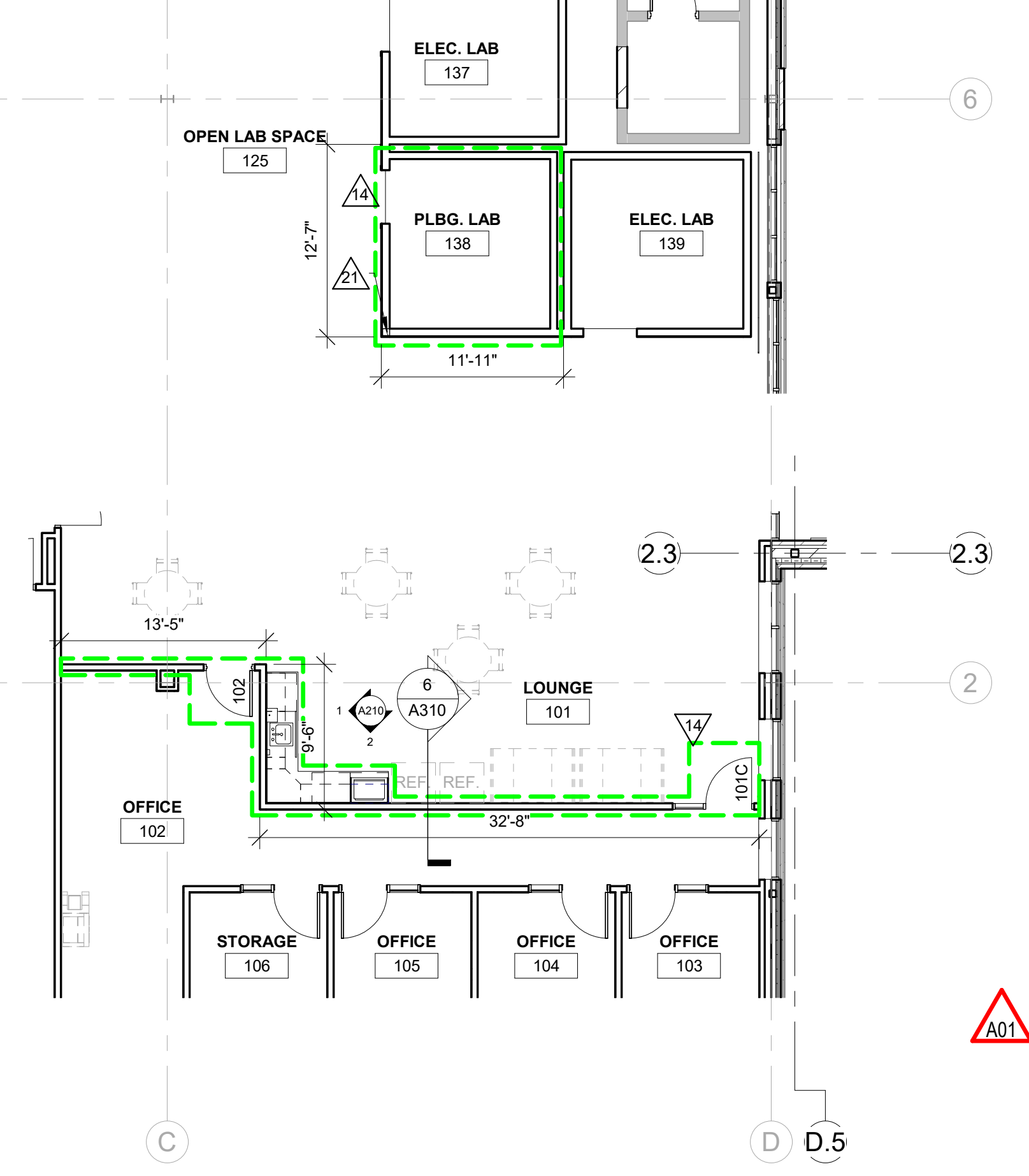
- SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.
- LOOSE FURNISHINGS EXCEPT AS NOTED SHALL BE PROVIDED AND INSTALLED BY THE OWNER.
- VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC. OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.
- PAINT ALL EXPOSED STEEL LINTELS.
- INSTALL BULLNOSE CMU AT ALL OUTSIDE CORNERS TWO TIE AND AT DOOR JAMBS AS DETAILED. NO BULLNOSE AT WINDOW JAMBS.
- SEE STRUCTURAL FOR SLAB CONTROL JOINTS.
- CLEAN AND PAINT ALL EXISTING DOORS NOT BEING REPLACED DURING THE PROJECT.
- REFER TO OVERALL PLANS FOR FIRE RATING LOCATIONS AND ACCESSIBILITY ROUTES.
- EXTEND ALL WALLS TO DECK UNLESS NOTED OTHERWISE. SEE A601 FOR TOP OF WALL DETAILS.
- UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" - 1/2" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.
- FIXED EQUIPMENT IS SHOWN ON THIS PLAN FOR COORDINATION.
- GEN. CONTRACTOR TO PROVIDE CONC. EQUIP. PAD/CURBS AS REQUIRED FOR MECH/ELECTRICAL EQUIP. - VERIFY SIZE/PROFILE/LOCATION WITH MECH/ELECTRICAL.

LEGEND:

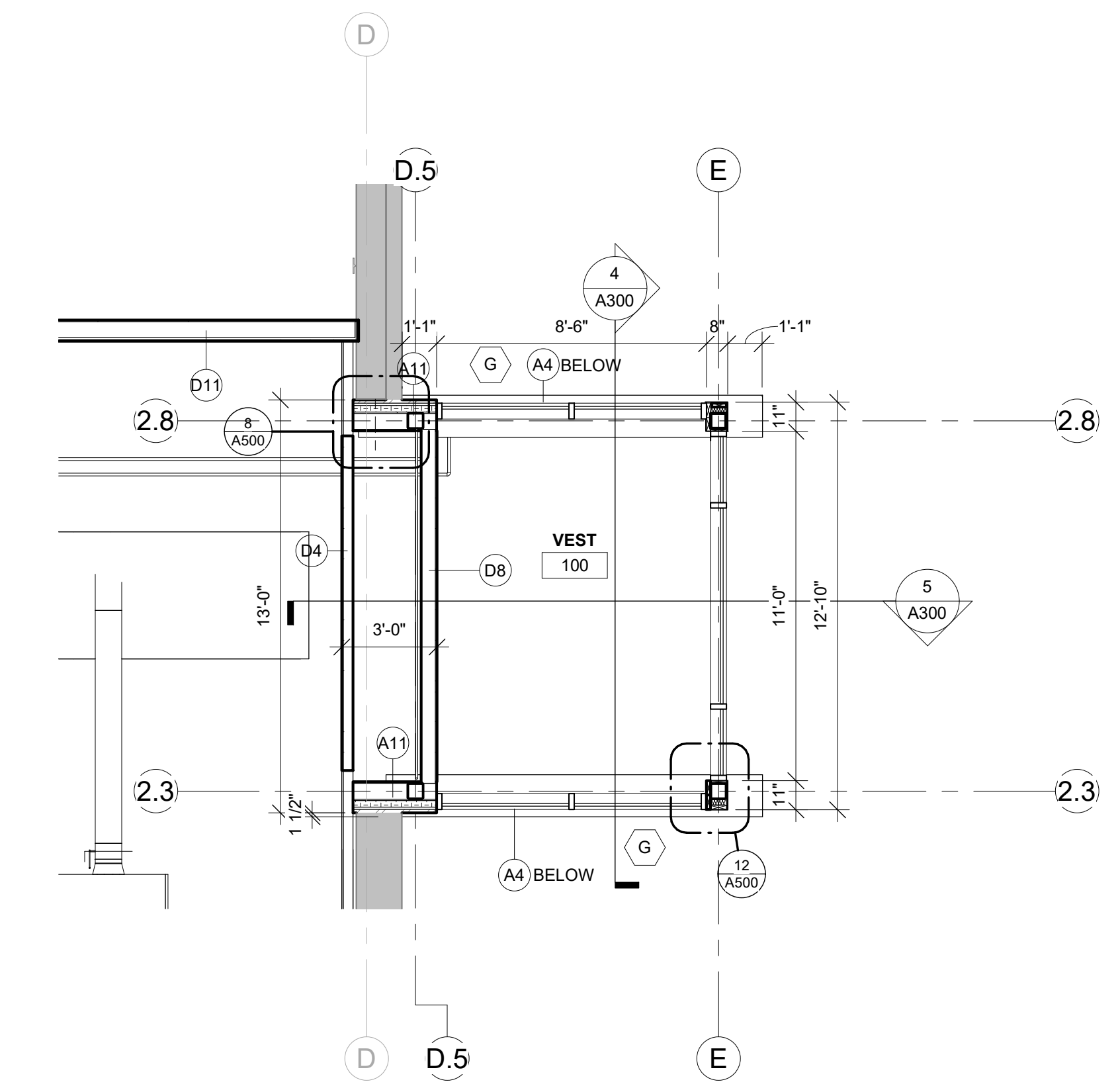
- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A601 FOR WALL TYPE DETAILS.
- (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A601 FOR WINDOW FRAME ELEVATIONS.
- (A) SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- WS WINDOW SHADES

KEY NOTES PLAN

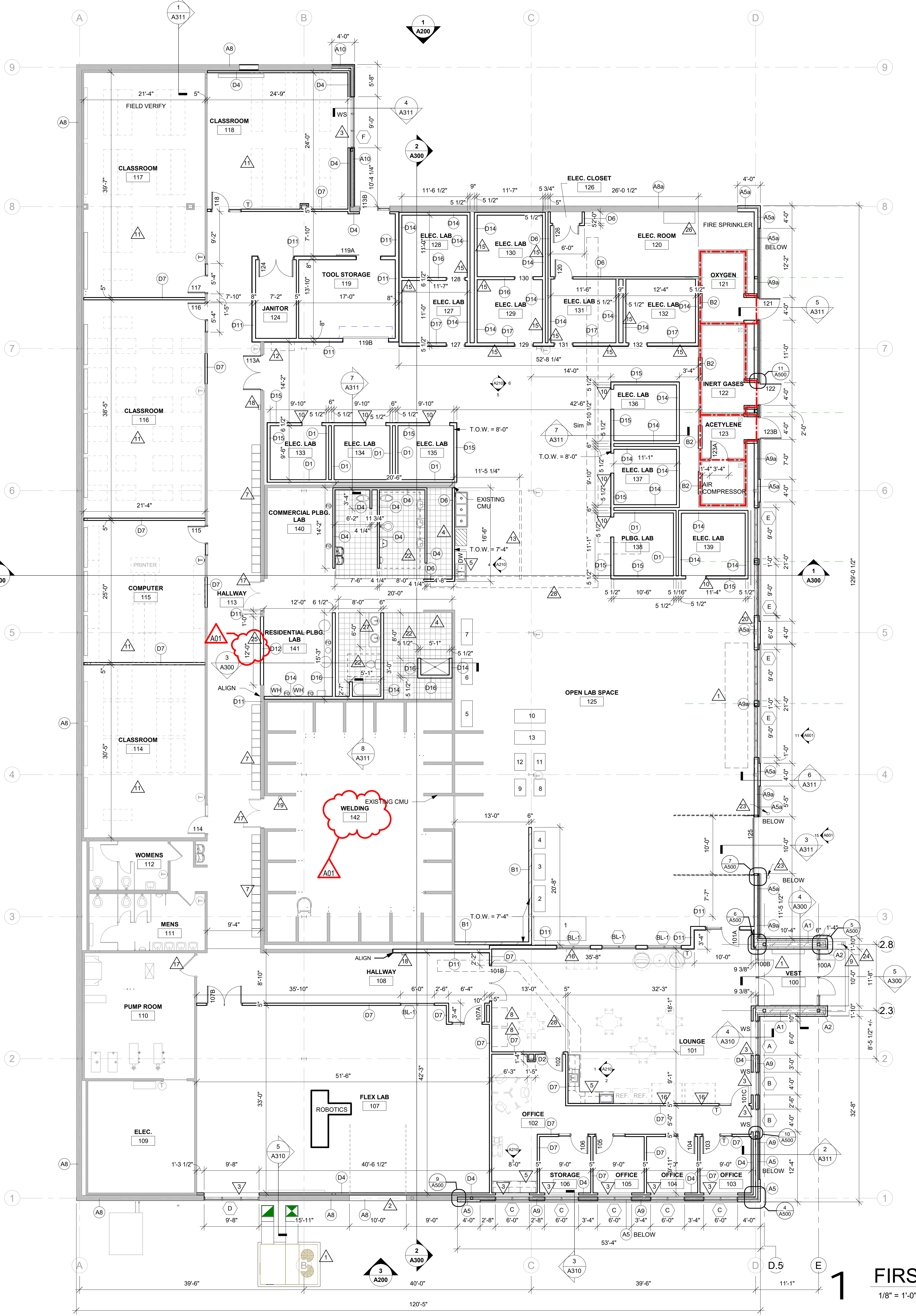
- MECHANICAL EQUIPMENT - SEE MECH
- FRAME OPENING FOR INSTALL OF OVERHEAD DOOR IN THE FUTURE - INFILL OPENING WITH WALL TYPE AB AND MATCH ADJ. METAL PANEL PROFILES. SIMILAR STRUCTURAL FRAMING AS OTHER OVERHEAD DOOR - SEE STRUCTURAL.
- SOLID SURFACE WINDOW STOOLS
- FIBERGLASS FLOOR GRATING ON WOOD FLOOR JOISTS - SEE STRUCTURAL.
- PLUMB CASEWORK - SEE ELEVATIONS ON A210
- NOT USED
- 1/4" MANUFACTURED TRIM AROUND FRAMED OPENINGS
- VENDING MACHINES - NIC
- CONCRETE STOOP - SEE STRUCTURAL
- 1/4" MANUFACTURED TRIM AROUND FRAMED OPENINGS
- FURNITURE SHOWN FOR REFERENCE ONLY - NIC
- PPE CABINET - NIC
- RECESSED UNIFRUIT INTO CONCRETE FLOOR
- ALTERNATE DIRTY WALL SYSTEM INCLUDES ALL DIVISIONS OF WORK INCLUDING DOOR, CASEWORK, ETC. DOOR HARDWARE TO BE PROVIDED BY 08 71 00. SEE SHEETS DW-101 & DW-201
- TOP OF WALL @ 9'-6" A.F.F.
- BACKING REQUIRED IN WALL FOR TABLE MOUNTING - 4'-0" X 8'-0" SHEET METAL BISHOP DRYWALL - VERIFY PLACEMENT OF TABLES WITH OWNER
- CLEAN AND REPAINT EXISTING HM DOORS AND FRAMES
- FIRE EXTINGUISHER CABINET - RECESSED IN WALL
- EXISTING BRACKET MOUNTED FIRE EXTINGUISHER TO REMAIN
- BRACKET MOUNTED FIRE EXTINGUISHER
- 6"x6" (NOM.) WOOD COLUMN. TOP @ 8'-0" IN CORNER REQ. W/ DOUBLE 2x4 HEADERS FROM COLUMN TO EACH CORNER TO SUPPORT ROOF STRUCTURE ABOVE IF ALTERNATE IS ACCEPTED.
- REMOVABLE PORTION OF FIBERGLASS GRATING
- CONCRETE CURB AS SHOWN SPEC
- DOOR FOR ALL OPERATOR DOOR BUT VENT
- D12 TO EXTEND 10'-0" A.F.F. - SEAL PERIMETER - HORIZONTAL JOINT ALLOWED @ 2'-0" A.F.F. IF REQUIRED
- 1/2" THICK CONCRETE LEAD PAD - COORDINATE W/ ELEC
- PLASTIC LAMINATE COUNTERTOP W/ BACKSPLASH MOUNTED @ 2'-0" A.F.F. WITH BLACK COUNTER TOP SUPPORT BRACKETS
- REQUIRED FLOOR TRENCHING TO BE DONE BY G.C. - COORDINATE W/ PLBG.



3 ALTERNATE PLAN
1/8" = 1'-0"



2 UPPER VESTIBULE PLAN
1/4" = 1'-0"



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



Consultant:

Project Title: **WESTERN TECHNICAL COLLEGE
APPRENTICESHIP CENTER REMODEL**
Project Location: 2860 21ST PL S
LA CROSSE, WI 54601
Sheet Title: **ROOF**

HSR Project Number: **19021**

Project Date: **FEBRUARY 2020**

Drawn By: **M.MALAND**

Key Plan:

No.	Description	Date
A01	ADDENDUM #1	02/17/2020

Graphic Scale: **VARIES**

Last Update: **2/11/2020 9:36:17 AM**

A120

GENERAL ROOF NOTES:

- A SEE ROOF SYSTEM NOTES FOR MINIMUM AND AVERAGE INSULATION VALUES.
- B ROOFING CONTRACTOR TO VERIFY ALL TAPERED INSULATION DRAWING PLAN DRAIN LOCATIONS WITH PHYSICAL LOCATION OF ROOF DRAIN AS INSTALLED BY PLUMBING TRADE PRIOR TO AE APPROVAL OF TAPERED INSULATION SUBMITTAL DRAWING.
- C VERIFY ROOF EQUIPMENT AND PENETRATIONS WITH ALL TRADES. EQUIPMENT SHOWN IS GRAPHIC ONLY.
- D ALL METAL ITEMS AT ROOF TOPS, UNLESS REQUIRED OTHERWISE BY EQUIPMENT MANUFACTURER, SHALL BE PAINTED TO MATCH OTHER TRIM BY THE C.C. - PREPARE, PRIME AND PAINT AS REQUIRED. PROVIDE FACTORY PRIMED PRODUCTS WHERE POSSIBLE.
- E ROOF PENETRATIONS FOR DRAINS, VENTS, ETC. SHALL BE COMPLETED AS PER CURRENT SMACNA REQUIREMENTS AND THE ROOF MANUFACTURERS APPROVED DETAILS FOR WARRANTY SATISFACTION. COORDINATE QUANTITY AND LOCATIONS WITH MEP CONTRACTOR. PROVIDE CURBS WHERE REQUIRED.
- F ALL METAL ROOF AND FLASHING, SHALL MEET CURRENT SMACNA REQUIREMENTS AND MANUFACTURERS SPECIFIED WARRANTY.
- G WHERE MEMBRANE IS SHOWN OVER TOP OF WALL EXTEND DOWN OPPOSITE SIDE AND SECURE TO BLOCKING.
- H TOP OF WALL BLOCKING SHOWN IS GRAPHIC. PROVIDE BLOCKING THAT SHALL BE ANCHORED TO WALL BELOW AS RECOMMENDED BY ROOFING SYSTEM MANUFACTURER TO WITHSTAND WIND UPLIFT AS STATED IN CODE. TOP OF WALLS SHALL SLOPE TOWARDS ROOF.
- I INSTALL BOND BREAK BETWEEN ALL WOOD BLOCKING AND CMU OR CONCRETE.
- J WHERE ROOF DRAINS PENETRATE ABOVE ROOMS W/ NO CEILING CARE SHALL BE TAKEN TO ENSURE NEAT CUTS IN THE DECK AND PIPING INSULATION SHALL BE CUT AND ANCHORED NEATLY @ RIGHT ANGLES TO STRUCTURE.
- K THE GENERAL CONTRACTOR, ROOFING CONTRACTOR AND MEP CONTRACTORS SHALL MEET TO PLAN AND DISCUSS FINAL ROOF EIGHT LOCATIONS. TIMING OF MEETING SHALL OCCUR BEFORE INSTALLATION OF ROOF DRAIN LEADERS TO ALLOW FOR ANY REQUIRED ADJUSTMENTS.
- L THE GENERAL CONTRACTOR, ROOFING CONTRACTOR AND PLUMBING CONTRACTORS SHALL MEET TO PLAN AND DISCUSS FINAL ROOF DRAIN LOCATIONS. TAPERED INSULATION DRAWING SHALL BE RE-SUBMITTED TO THE AE AFTER DRAIN LOCATIONS ARE APPROVED BY ALL IN WRITING. TAPERED INSULATION INSTALLED CONTRARY TO THE LOW POINT OF THE DRAIN, OVER FLOW OR SCUPPER LOCATIONS SHALL BE CAUSE FOR REJECTION OF WORK.

ROOF SYSTEM DESCRIPTIONS:

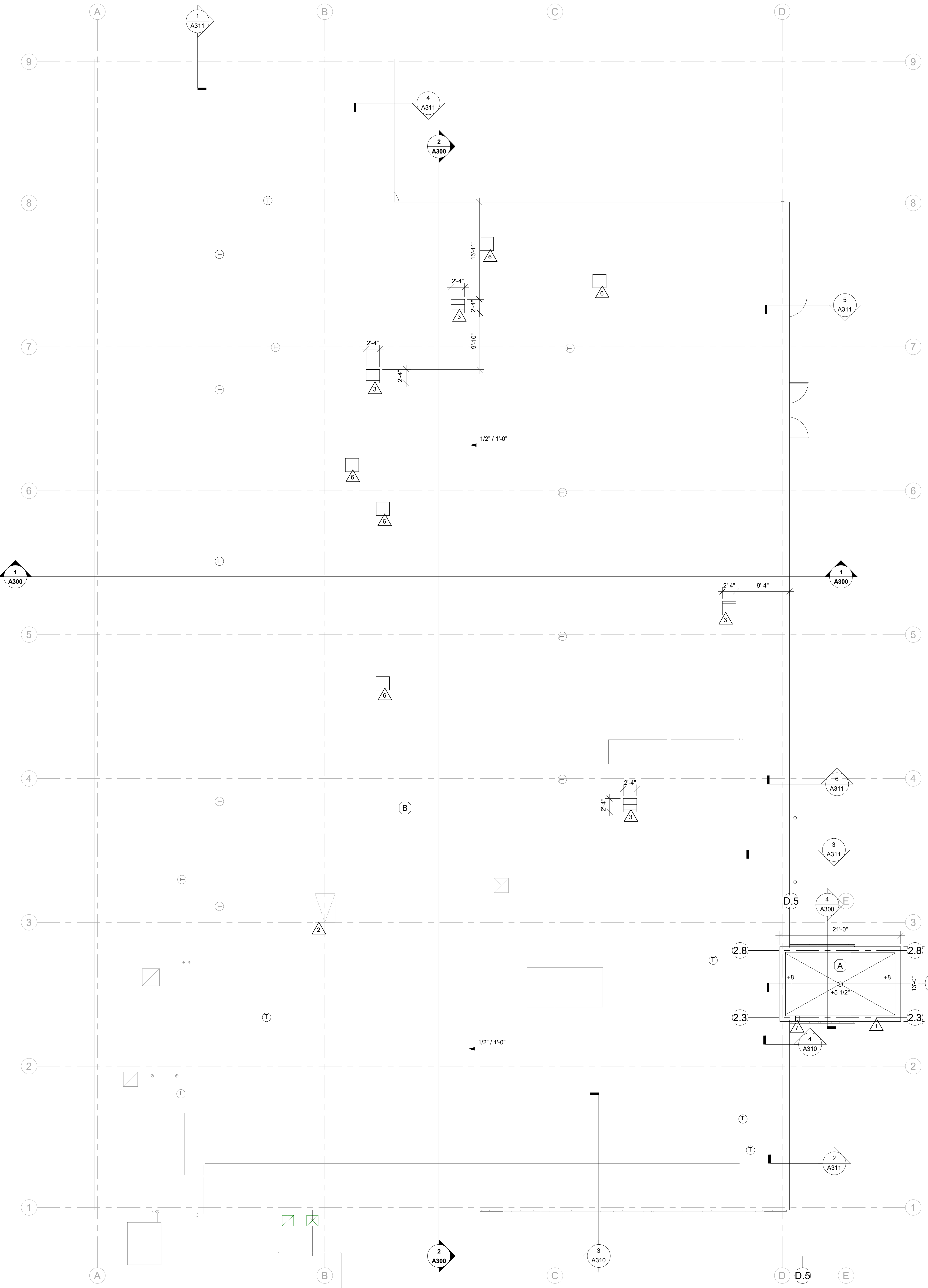
- A MODIFIED BUILT-UP ROOFING SYSTEM ON 1/4" PER FOOT TAPERED POLYISOCYANURATE INSULATION SYSTEM CONSISTING OF TAPERED INSUL OVER MINIMUM 5/16" BASE LAYER. INSTALL REQUIRED THICKNESS TO MEET AVERAGE R-VALUE OF 30. INSTALL INSULATION OVER 6 MIL POLY VAPOR BARRIER OVER METAL DECK. VAPOR BARRIER SHALL BE TAPED SEAL AT PERIMETER AND OVERLAPPED SEAMS.
- B EXISTING ADHESIVE SINGLE MEMBRANE ROOF SYSTEM - ANY ROOF MODIFICATION WORK - BY PROJECT ROOFING CONTRACTOR.
- C ASPHALT SHINGLES ON 5/8" WOOD ROOF DECKING ON WOOD TRUSSES @ 2'-0" O.C.

ROOF EQUIPMENT LEGEND:

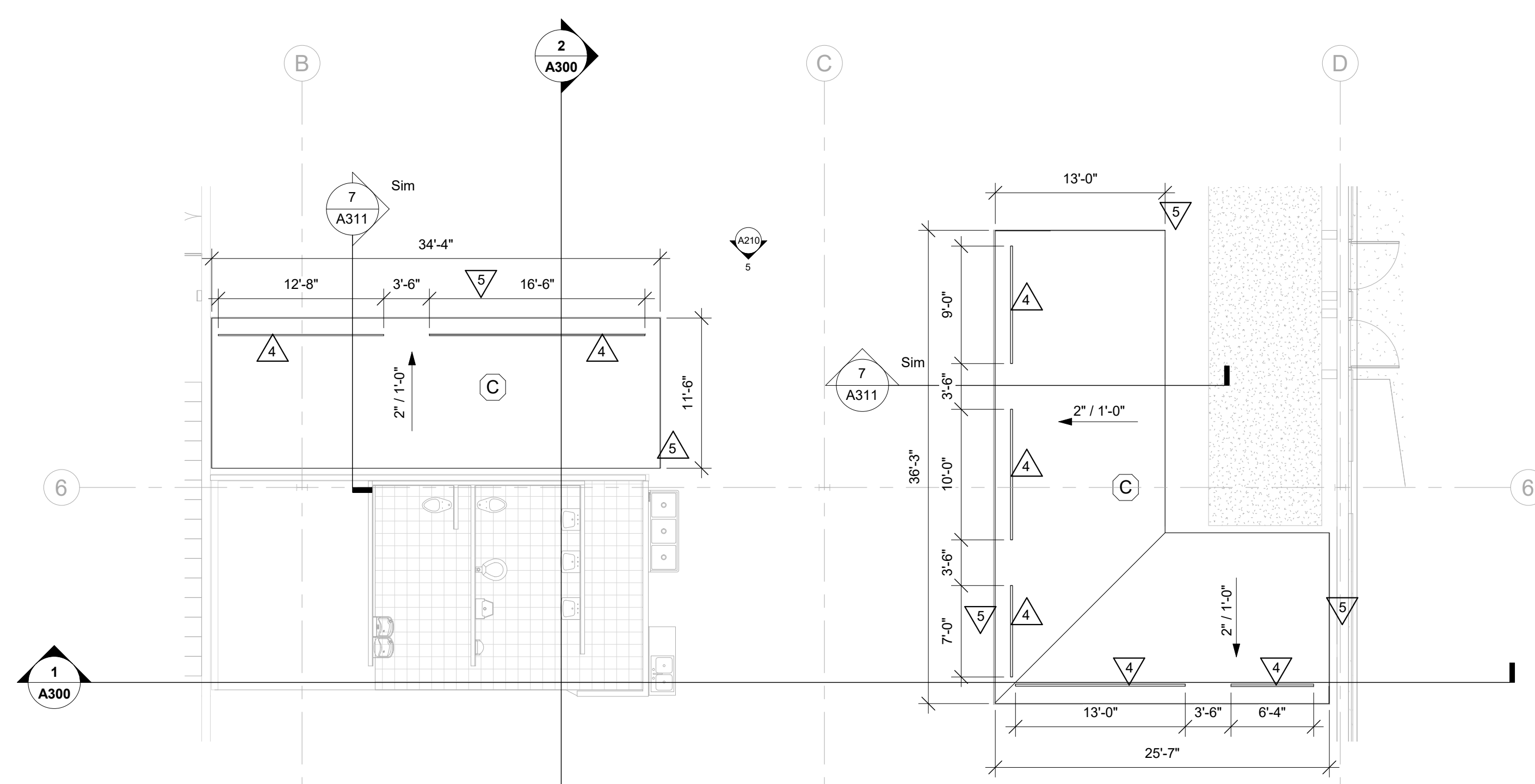
- INTAKE VENT HOOD-SEE MECHANICAL.
- EXHAUST VENT HOOD-SEE MECHANICAL.
- AIR INTAKE/EXHAUST VENT-SEE MECHANICAL.
- PLUMBING VENT-SEE PLUMBING.
- RD = ROOF DRAIN WITH 4" SQUARE SUMP. INSTALL TO MEET ROOF WARRANTY REQUIREMENT - SEE PLUMBING.

KEY NOTES ROOF

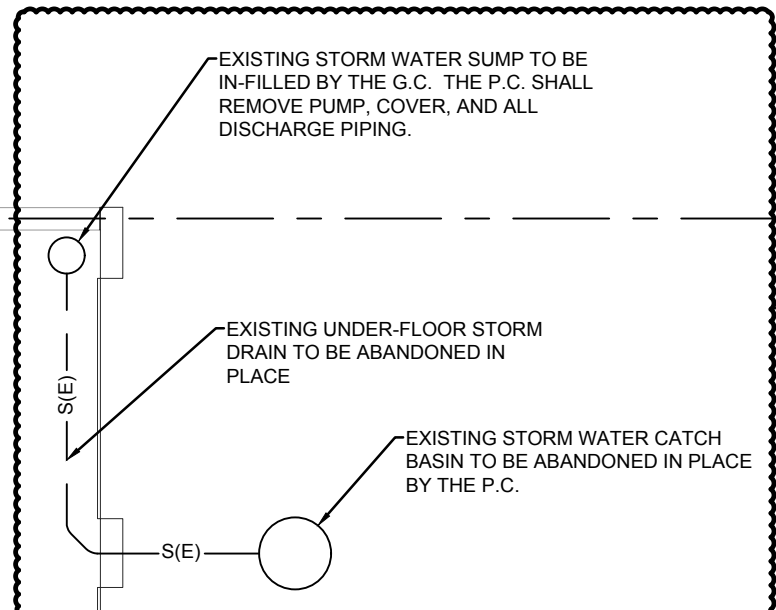
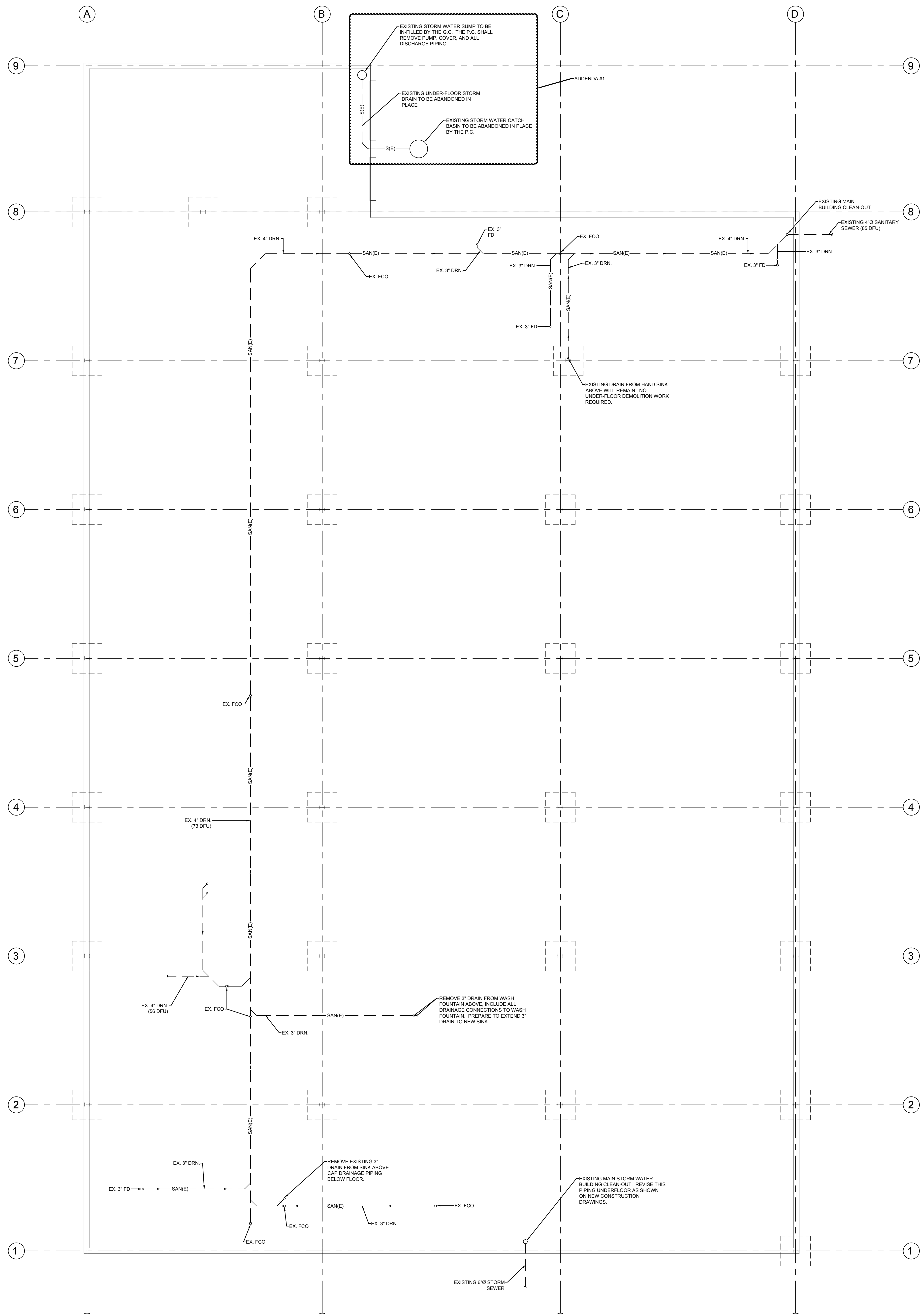
- 1 PRE-FINISHED METAL WALL CAP FLASHING
- 2 EXISTING ROOF ACCESS LADDER
- 3 INSTALL SKYLIGHT ON CURB FROM REMOVED MECHANICAL EQUIPMENT. VERIFY THE EXACT PLACEMENT AND SIZE IN FIELD COORDINATE ANY REQUIRED SPON TIES AND REQUIRED FLASHINGS.
- 4 STEEL PIPE GUARDRAIL - FASTENED TO ROOF TRUSSES SEE SECTION A311
- 5 PRE-FINISHED METAL FASCIA ON 2x8 FASCIA BOARD
- 6 INSTALL INSULATED CAP W/ TAPERED INSULATION AND MEMBRANE WHERE MECHANICAL EQUIP. IS REMOVED - COORDINATE W/ MECH.
- 7 PRE-FINISHED THROUGH WALL OVERFLOW SCUPPER TO OPEN FACE DOWNSPOUT - TERMINATE AT GRADE



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



2 INTERIOR ROOF PLAN
1/8" = 1'-0"



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



**WESTERN TECHNICAL COLLEGE
 APPRENTICESHIP CENTER REMODEL**

Project Location: 2860 21ST PL S
 LA CROSSE, WI 54601

PLUMBING UNDERFLOOR DEMOLITION PLAN

Project Title:
 HSR Project Number: **19021**

Project Date: **FEBRUARY 4, 2020**

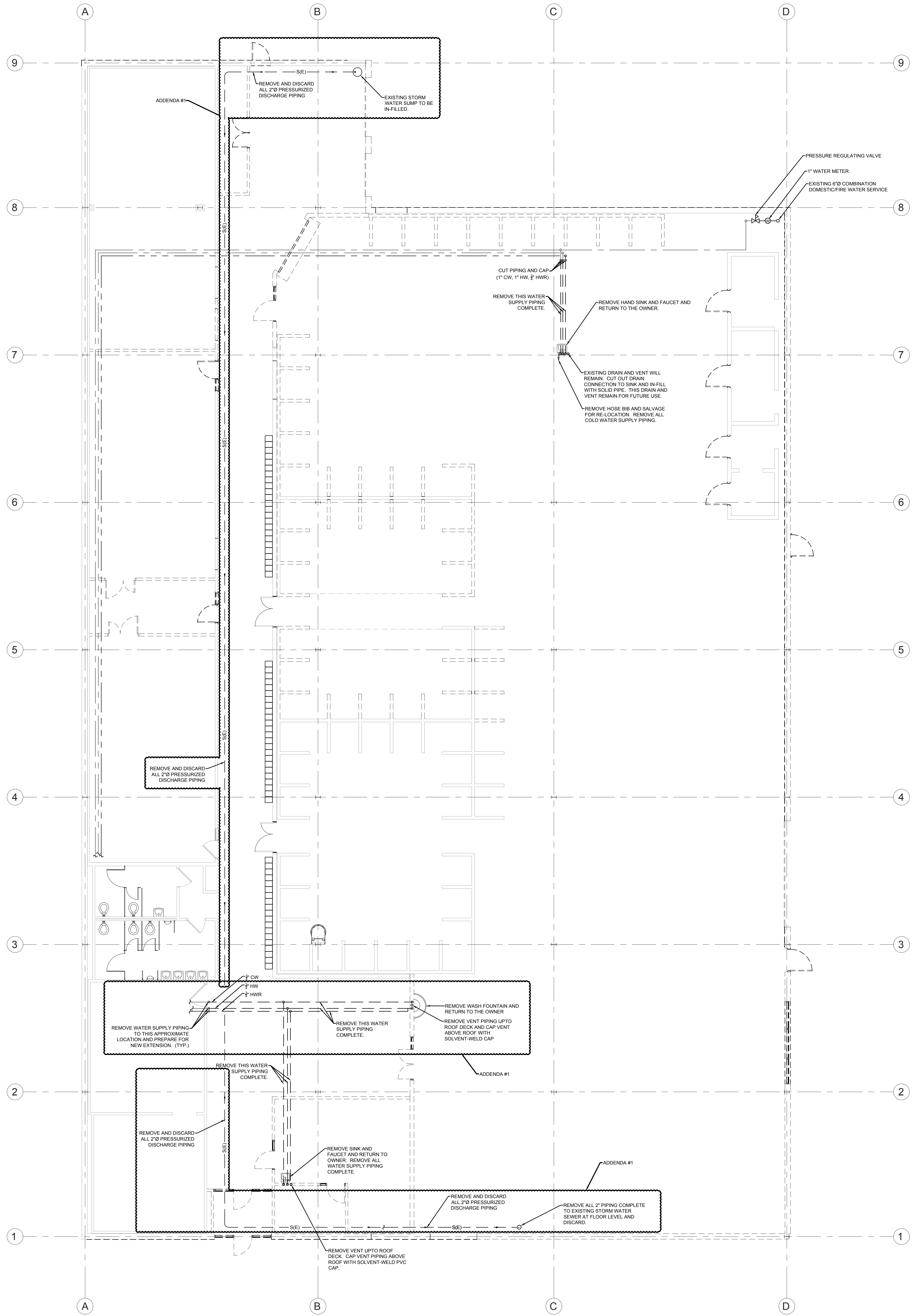
Drawn By: GALILEO

Key Plan:

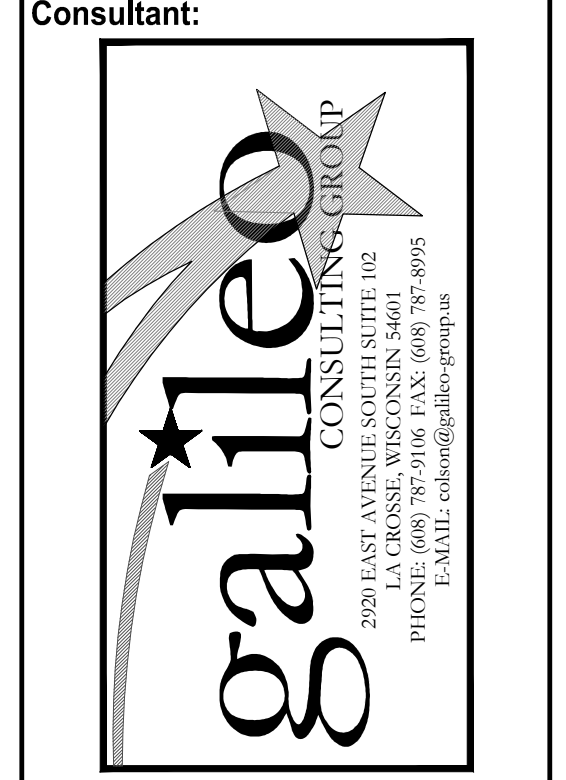
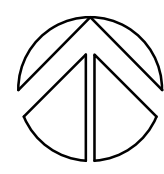
No.	Description	Date

Graphic Scale: (SEE DRAWING)
 Last Update:

P090



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



**WESTERN TECHNICAL COLLEGE
 APPRENTICESHIP CENTER REMODEL**

Project Title: **PLUMBING FIRST FLOOR DEMOLITION PLAN**

Project Location: **2860 21ST PL S
 LA CROSSE, WI 54601**

Project Number: **19021**

Project Date: **FEBRUARY 4, 2020**

Drawn By: **GALILEO**

Key Plan:

No.	Description	Date

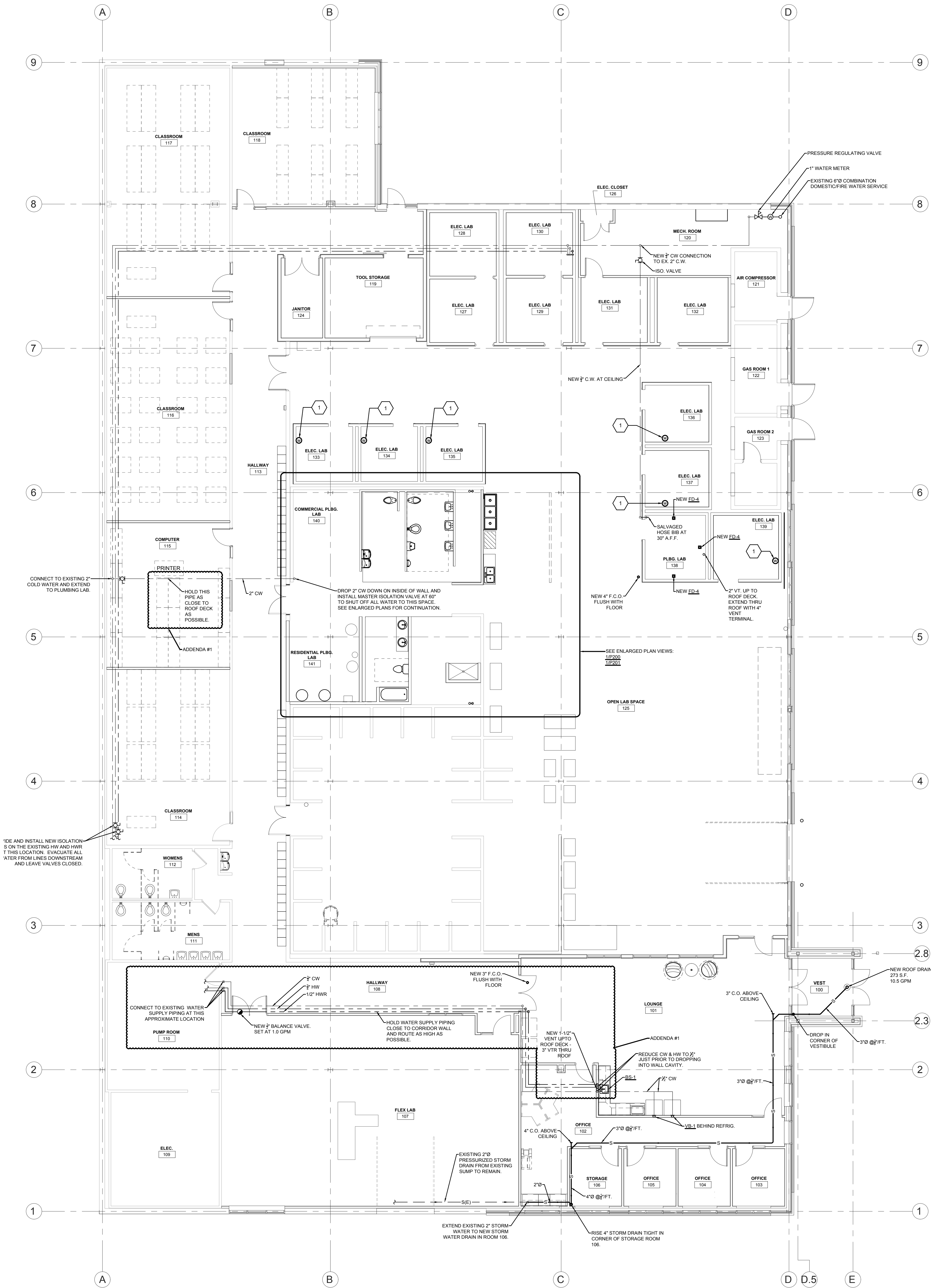
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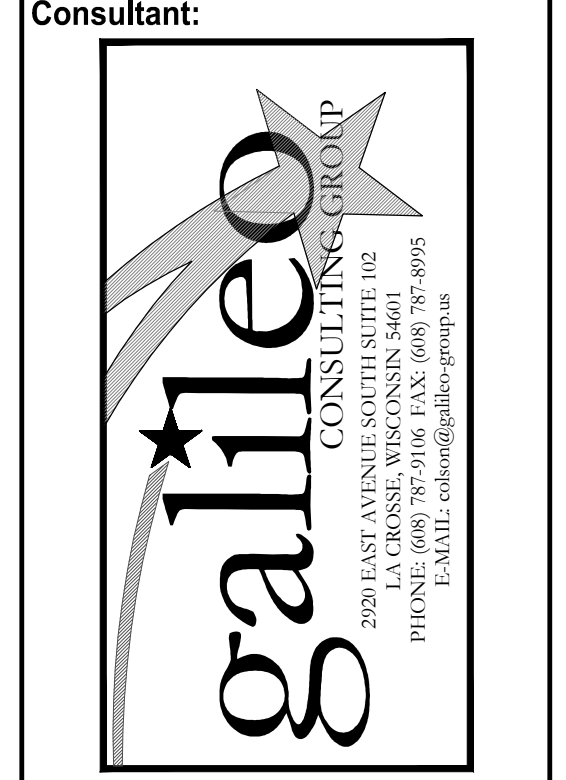
P091

PLUMBING "KEYED" NOTES:

- At these locations, the Plumbing Contractor shall fabricate a floor-supported mock-up of a typical water meter installation. These will be used to educate residential electricians in the proper methods of electrical service grounding. This Contractor shall provide and install all pipe, water meters, supports, clamps, etc. and shall mount these assemblies on the floor in a location determined by the Owner.



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**WESTERN TECHNICAL COLLEGE
APPRENTICESHIP CENTER REMODEL**

Project Title:
WESTERN TECHNICAL COLLEGE
APPRENTICESHIP CENTER REMODEL

Project Location:
2860 21ST PL S
LA CROSSE, WI 54601

Sheet Title:
PLUMBING FIRST FLOOR PLAN - NEW WORK

Project Number:
19021

Project Date:
FEBRUARY 4, 2020

Drawn By:
GALILEO

Key Plan:

Revisions:

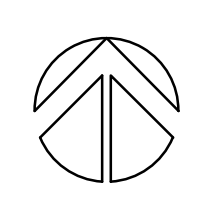
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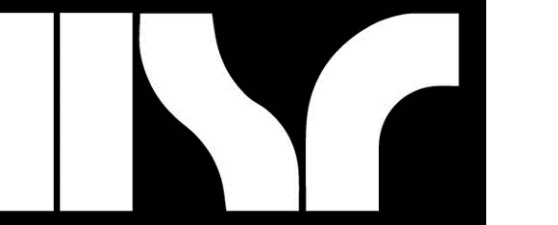
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Last Update:

P101

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





Consultant:



WESTERN TECHNICAL COLLEGE
APPRENTICESHIP CENTER REMODEL

Project Location: 2860 21ST PL S
LA CROSSE, WI 54601

Project Number: 19021

Project Date: FEBRUARY 4, 2020

Drawn By: GALILEO

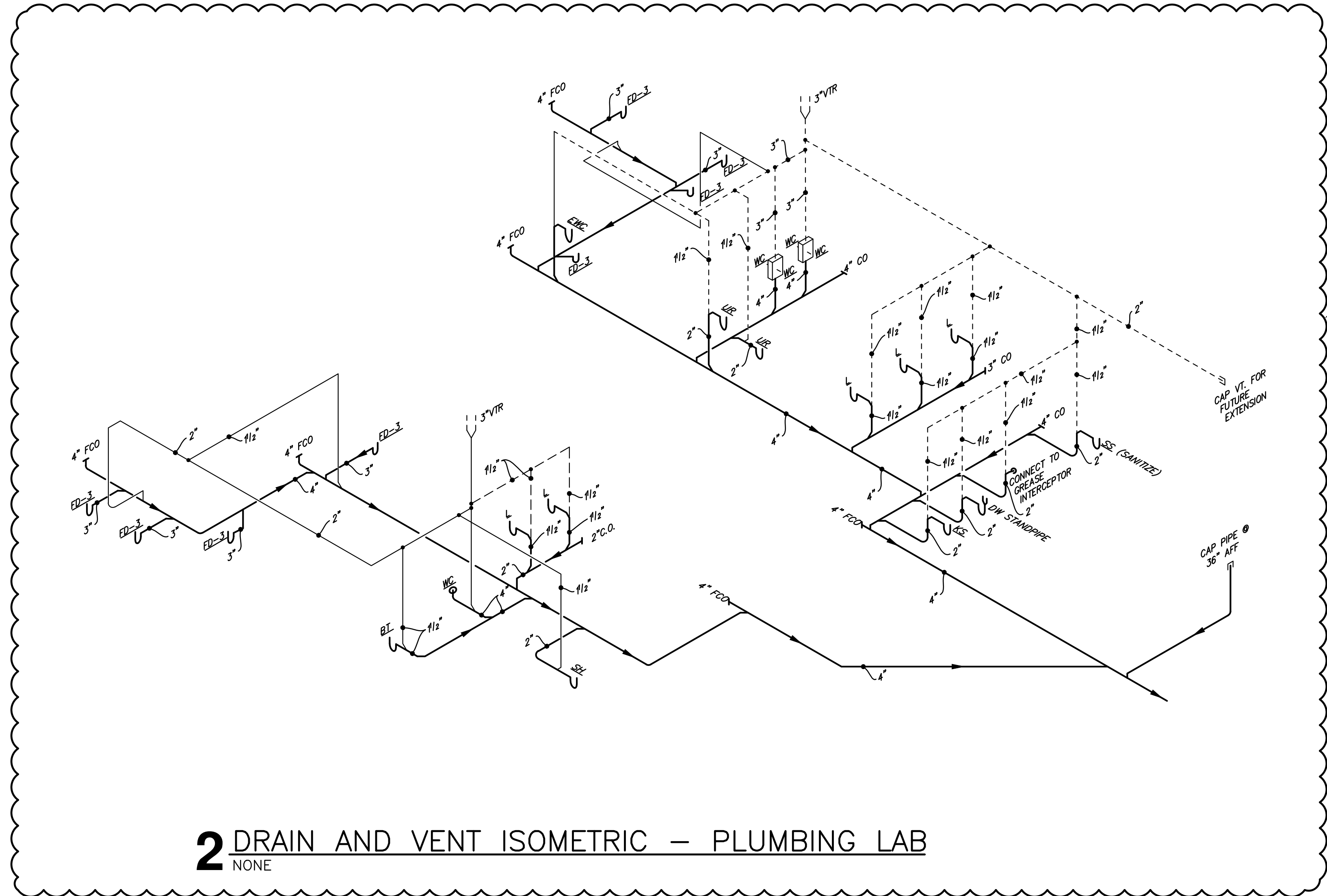
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No.	Description	Date

Graphic Scale:
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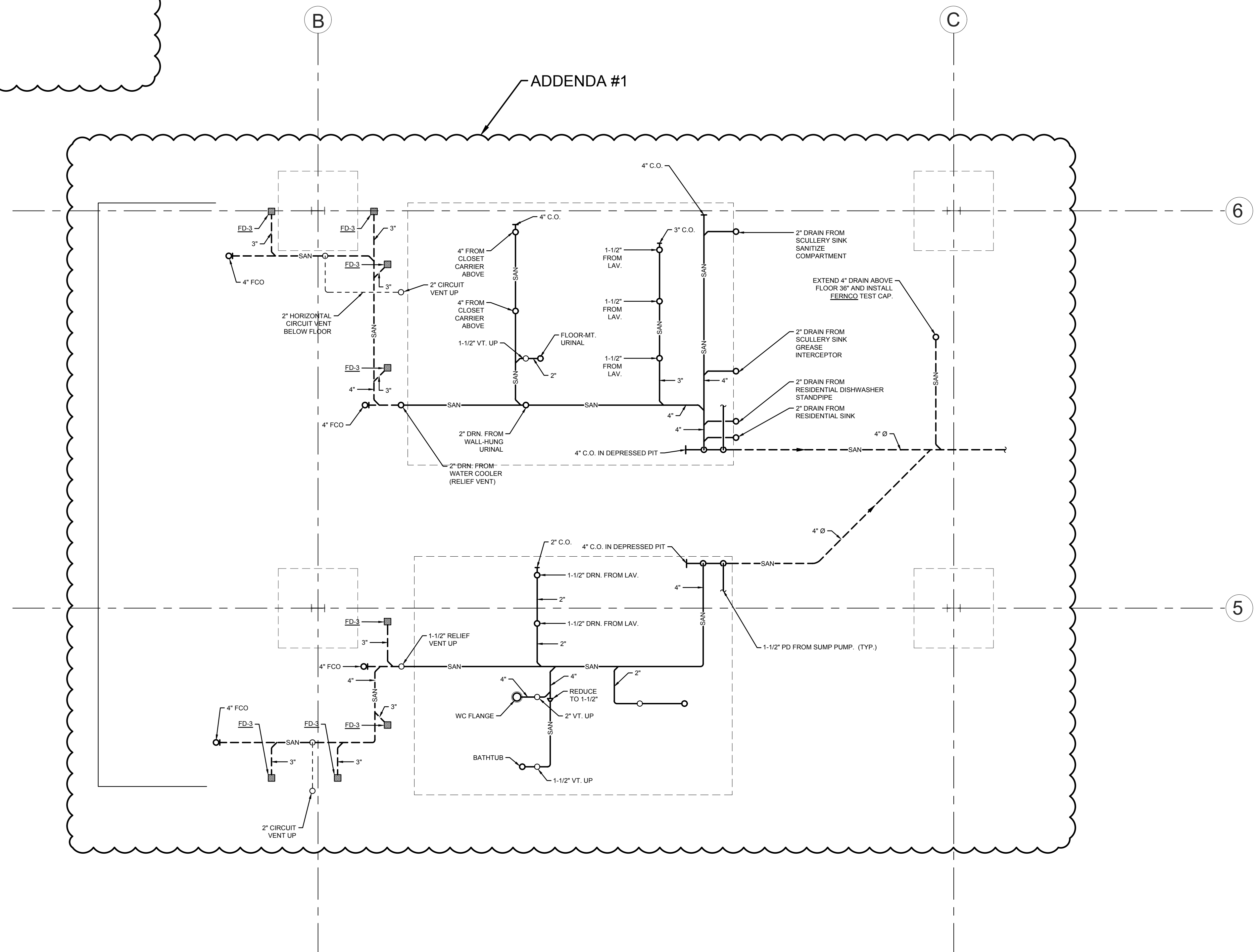
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P200



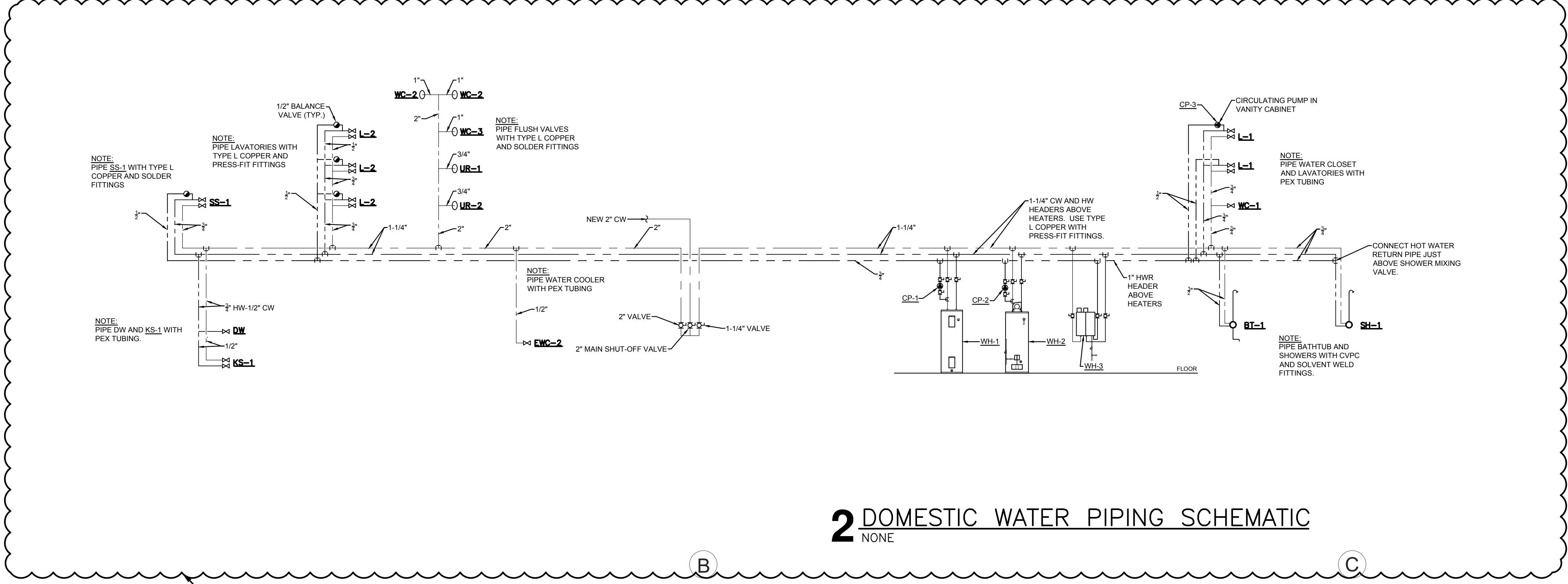
2 DRAIN AND VENT ISOMETRIC - PLUMBING LAB
NONE

ADDENDA #1



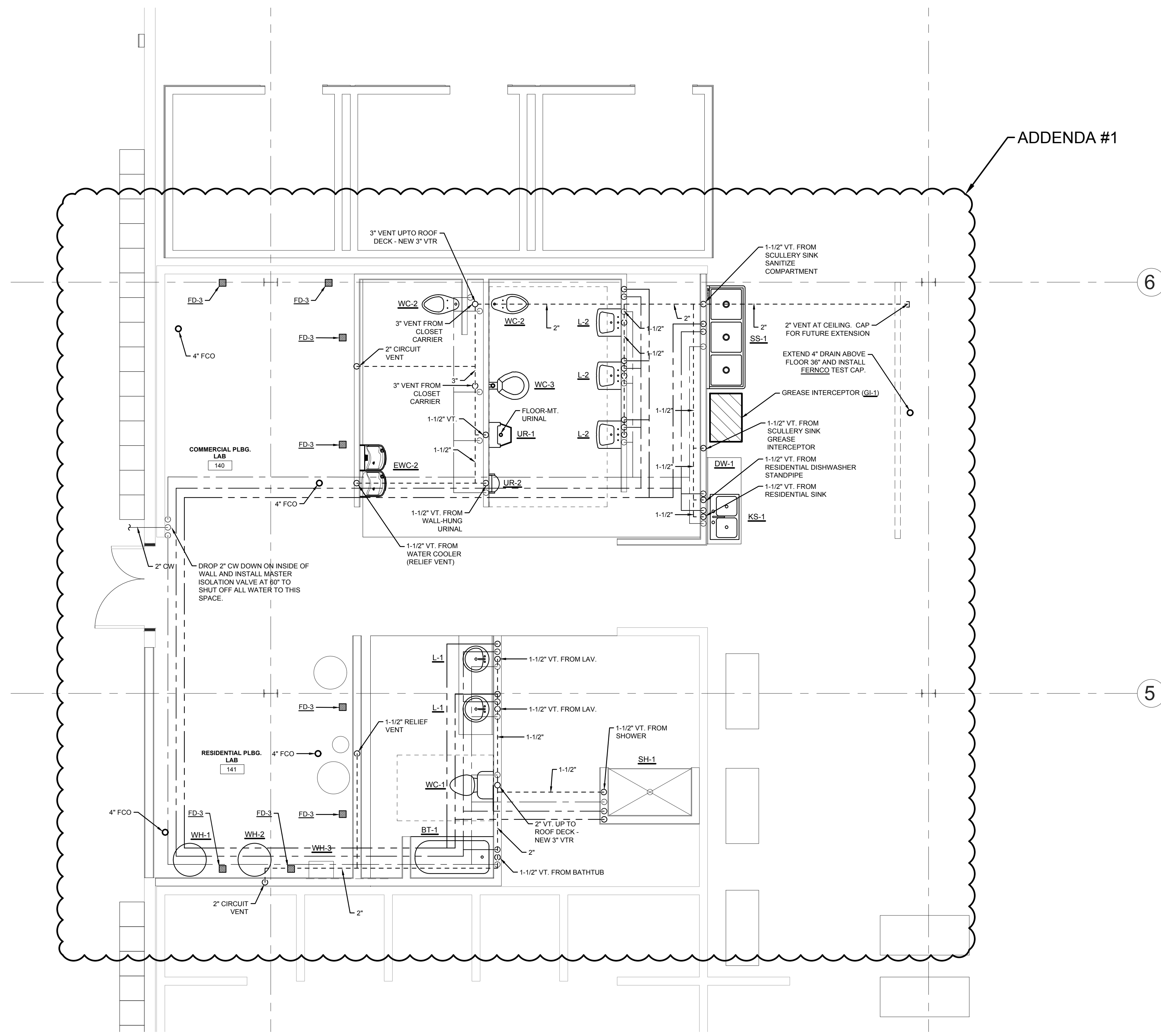
1 PLUMBING ENLARGED UNDERFLOOR PLAN
1/4" = 1'-0"





2 DOMESTIC WATER PIPING SCHEMATIC
NONE

ADDENDA #1



ADDENDA #1

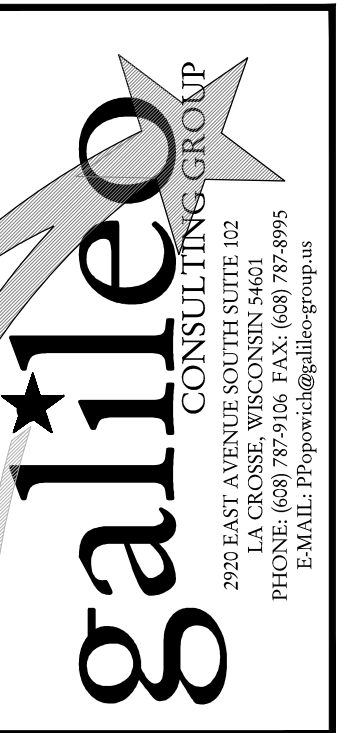
1 PLUMBING ENLARGED FIRST FLOOR PLAN
1/4" = 1'-0"

No.	Description	Date

Graphic Scale:
(SEE DRAWING)
Last Update:



Consultant:



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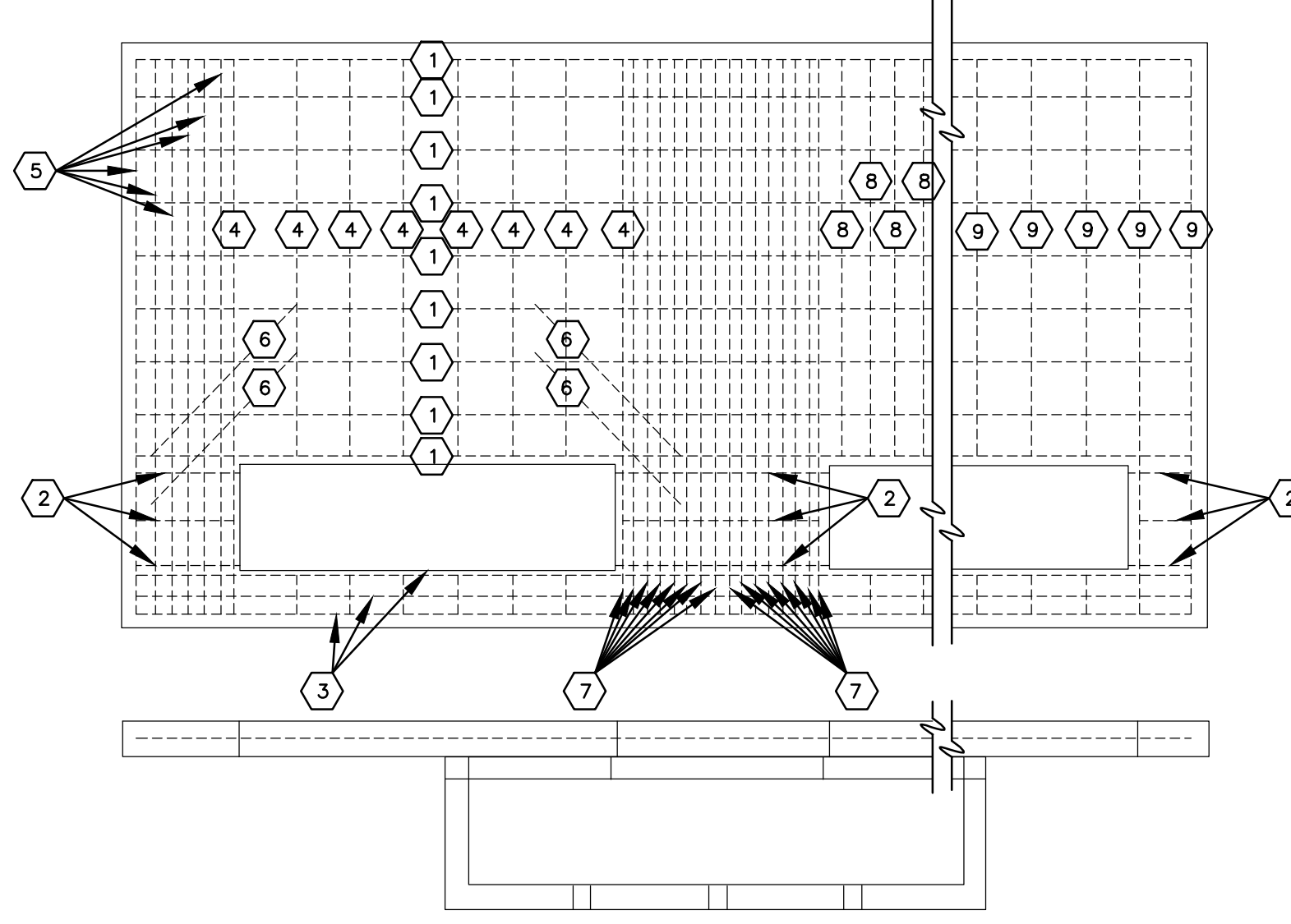
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1	ADDENDUM #1	2-10-20

Graphic Scale:
VARIES
Last Update:
2/05/2020

E202R

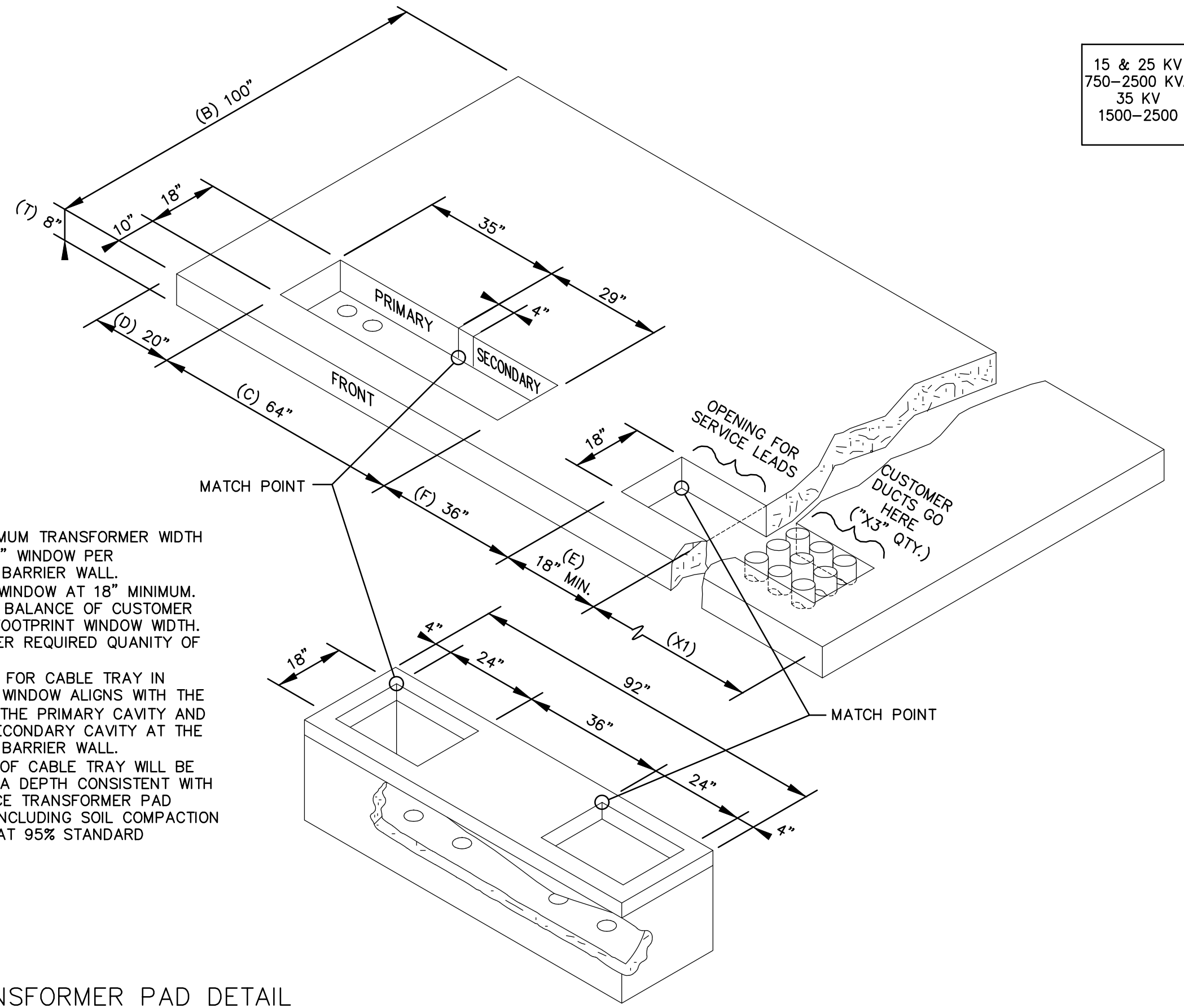
PAD DIMENSIONS (DIM)							REINFORCED STEEL SCHEDULE									
A	B	C	D	E	F	T	X1	1	2	3	4	5	6	7	8	9
104"	64"	20"	18"	36"	8"	BAL. OF	SCC WIDTH	9-#4	3-#4	3-#4	8-#4	6-#4	2-#4	x30"	14-#4	5-#4
NOTE	1100"	64"	20"	18"	MIN	36"	8"									

- REBAR NOTES:**
- REBAR SCHEDULE #8 IS PER CUSTOMER CHOSEN SCC FOOTPRINT WIDTH.
 - REBAR SCHEDULES #1 & 2 (SCC SIDE) IS PER CUSTOMER CHOSEN SCC FOOTPRINT WIDTH.

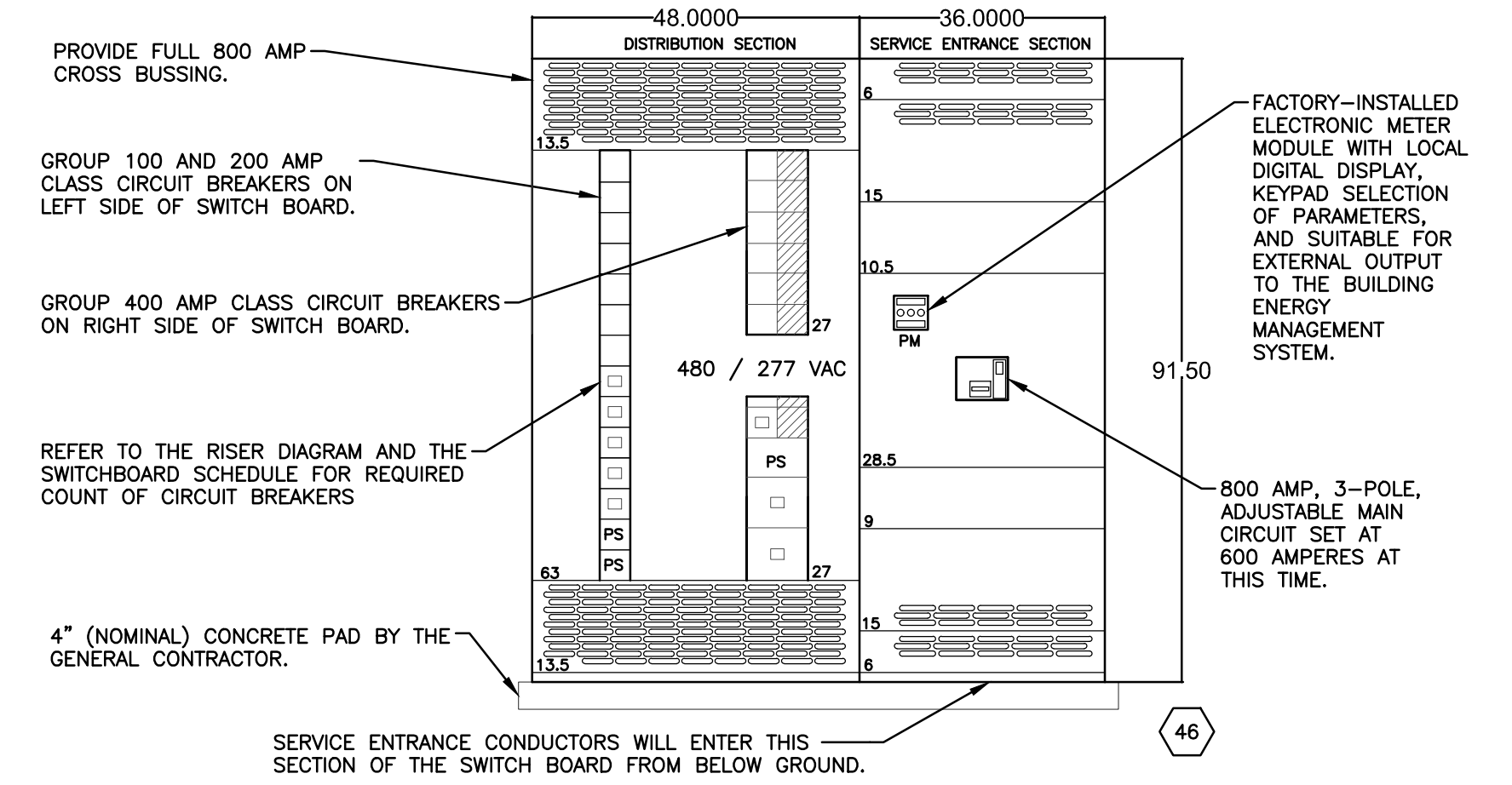


1907-E-TRANS CONC PAD

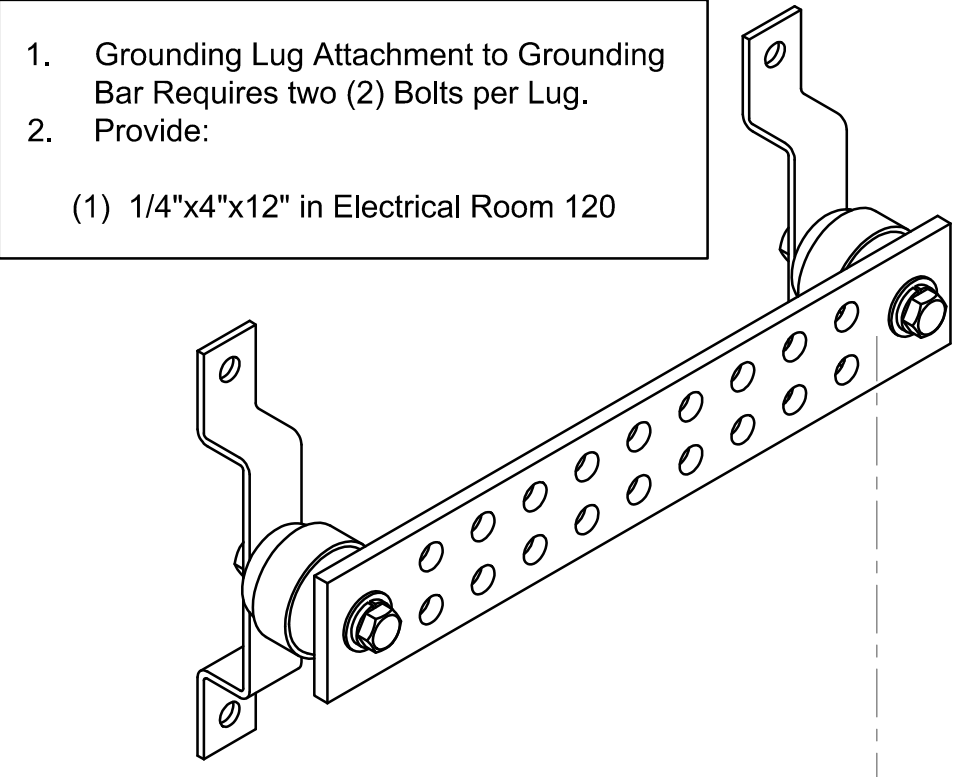
- PAD NOTES:**
- DIM A IS MAXIMUM TRANSFORMER WIDTH PLACED ON 64" WINDOW PER TRANSFORMER BARRIER WALL.
 - DIM E IS SCC WINDOW AT 18" MINIMUM. DIM X1 IS THE BALANCE OF CUSTOMER CHOSEN SCC FOOTPRINT WIDTH. X3 IS CUSTOMER REQUIRED QUANTITY OF DUCTS.
 - MATCH POINTS FOR CABLE TRAY IN TRANSFORMER WINDOW ALIGNS WITH THE 4" WALL INTO THE PRIMARY CAVITY AND FLUSH WITH SECONDARY CAVITY AT THE TRANSFORMER BARRIER WALL.
 - TOP SURFACE OF CABLE TRAY WILL BE INSTALLED AT A DEPTH CONSISTENT WITH POUR-IN-PLACE TRANSFORMER PAD FINAL GRADE INCLUDING SOIL COMPACTION REQUIREMENT AT 95% STANDARD PROCTOR.



2 TRANSFORMER PAD DETAIL
E202 N.T.S.



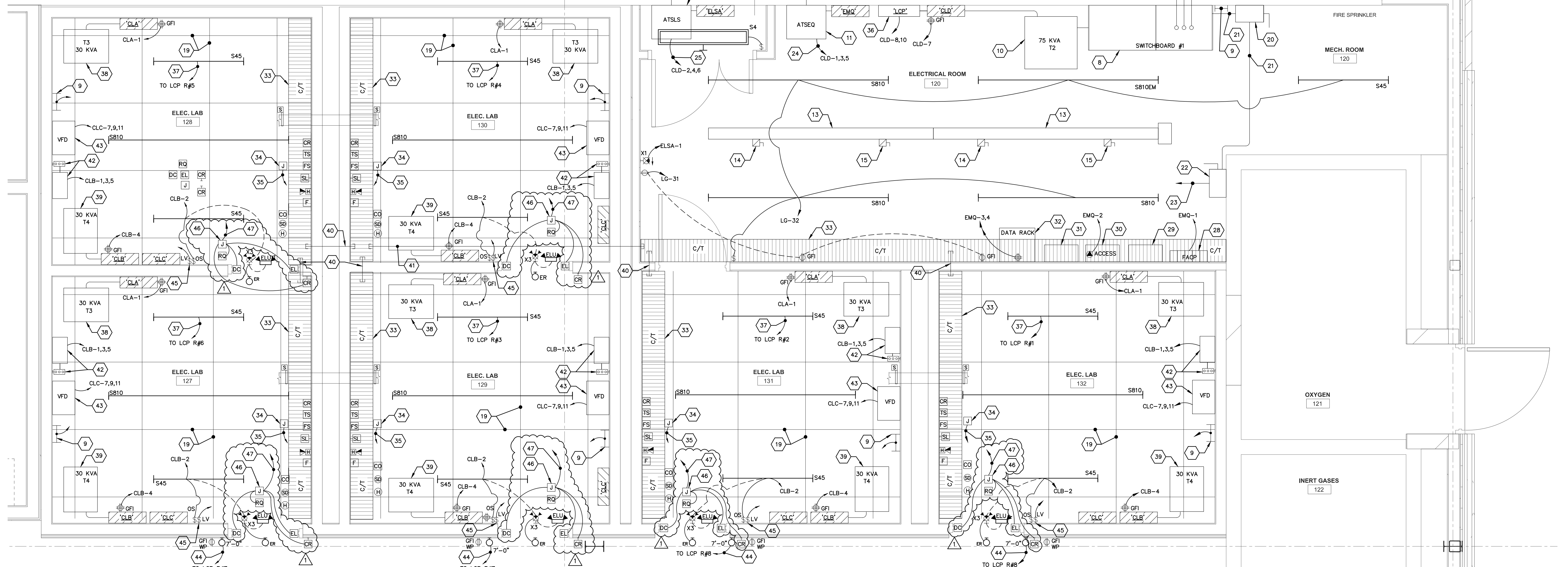
3 SWITCHBOARD DETAIL
E202 N.T.S.



4 GROUND BAR DETAIL
E202 N.T.S.

- Grounding Lug Attachment to Grounding Bar Requires two (2) Bolts per Lug.
- Provide:
(1) 1/4"x4"x12" in Electrical Room 120

- KEYED LARGE SCALE PLAN NOTES 1/ E202:**
- ELECTRICAL CONTRACTOR SHALL PROVIDE AN XCEL APPROVED CONCRETE PAD FOR SIMULATED UNDERGROUND ELECTRIC SERVICE. REFER TO DETAIL 2/E202. COORDINATE WITH ELECTRICAL APPRENTICESHIP INSTRUCTOR.
 - LOCATION OF 'FUTURE' OWNER PROVIDED UTILITY TYPE TRANSFORMER, 300 KVA, 480/277VAC, 3-PHASE, 4-WIRE SECONDARY.
 - PROVIDE A 800 AMP, 480VAC, 3-PHASE, 4-WIRE PAD-MOUNTED C/T CABINET.
 - PROVIDE AN EMPTY 4" SCHEDULE 40 PVC CONDUIT TO SIMULATE AN UNDERGROUND ELECTRIC SERVICE.
 - PROVIDE A 4" SCHEDULE 40 PVC CONDUIT WITH 4-#60KCMIL XHHW-2 ALUMINUM CONDUCTORS & 1-#3/0 XHHW-2 (GRD).
 - PROVIDE A SPARE 4" SCHEDULE 40 PVC CONDUIT.
 - PROVIDE A 200 AMP, 480/277 VAC, 3-PHASE, 4-WIRE WALL-MOUNTED C/T CABINET APPROVED BY XCEL ENERGY FOR SIMULATED UNDERGROUND ELECTRIC SERVICE.
 - PROVIDE A 800 AMP, 480VAC, 3-PHASE, 4-WIRE SWITCHBOARD AS SPECIFIED. REFER TO DETAIL 3/E202.
 - PROVIDE A 12" LONG GROUND BAR PER DETAIL 4/E202.
 - PROVIDE A 75 KVA, 480VAC, 3-PHASE, DELTA PRIMARY, 120/208VAC, Y-SECONDARY TRANSFORMER.
 - PROVIDE A 60AMP, 480VAC, 3-POLE WITH NEUTRAL 'ASCO' AUTOMATIC TRANSFER SWITCH TO SIMULATE 'EQUIPMENT' EMERGENCY BRANCH.
 - PROVIDE A 30 AMP, 480VAC, 3-POLE WITH NEUTRAL 'ASCO' AUTOMATIC TRANSFER SWITCH TO SIMULATE 'LIFE-SAFETY' EMERGENCY BRANCH.
 - PROVIDE A 10'-0" SECTION OF 480/277 VAC, 3-PHASE, 4-WIRE SQUARE 'D' ONLY BUSSDUCT.
 - PROVIDE A 30 AMP, FUSIBLE, 480 VAC, 3-POLE, BUSSDUCT DISCONNECT.
 - PROVIDE A 60 AMP, FUSIBLE, 480 VAC, 3-POLE, BUSSDUCT DISCONNECT.
 - LOCATION OF 'FUTURE' OWNER PROVIDED UTILITY TYPE TRANSFORMER, 150 KVA, 120/208VAC, 3-PHASE, 4-WIRE SECONDARY.
 - APPROXIMATE LOCATION OF 'FUTURE' SOLAR SYSTEM CONTROL PANEL(S), EQUIPMENT.
 - PROVIDE AN EMPTY 2" SCHEDULE 40 PVC CONDUIT TO SOLAR SYSTEM PANELS. REFER TO SITE PLAN E001 FOR EXACT LOCATION.
 - PROVIDE A UNISTRUT FRAMING CHANNEL CEILING FOR COMMERCIAL LAB FOR MOUNTING CONDUIT, JUNCTION BOXES, LIGHTING FIXTURES, ETC. TYPICAL.
 - PROVIDE A 200 AMP, 480 VAC, 3-POLE, NON-FUSED, DOUBLE THROW, MANUAL TRANSFER SWITCH.
 - PROVIDE A 200 AMP, 480VAC, 3-POLE, NON-FUSED, HEAVY DUTY, NEAR 1 DISCONNECT SWITCH.
 - PROVIDE A 200 AMP, 480 VAC, 3-PHASE, FEEDER TO EXISTING SWITCHBOARD LOCATED IN ELECTRICAL ROOM #109. REFER TO ELECTRIC RISER DIAGRAM 1/E404.
 - PROVIDE A 60 AMP, 208 VAC, 3-PHASE FEEDER TO PANELBOARD 'CLD' FOR EMERGENCY TRANSFER SWITCH - EQUIPMENT BRANCH. REFER TO ELECTRIC RISER DIAGRAM 1/E404.
 - PROVIDE A 30 AMP, 208 VAC, 3-PHASE FEEDER TO PANELBOARD 'CLD' FOR EMERGENCY TRANSFER SWITCH - LIFE SAFETY BRANCH. REFER TO ELECTRIC RISER DIAGRAM 1/E404.
 - PROVIDE AN EMPTY 1" SCHEDULE 40 PVC CONDUIT TO EMERGENCY GENERATOR PAD AREA. REFER TO SITE PLAN 1/E001 FOR LOCATION.
 - PROVIDE AN EMPTY 3/4" SCHEDULE 40 PVC CONDUIT TO EMERGENCY GENERATOR PAD AREA. REFER TO SITE PLAN 1/E001 FOR LOCATION.
 - INSTALL A WTC (OWNER) PROVIDED VOICE-EVAC TYPE FIRE ALARM CONTROL PANEL AND DEVICES FOR LABS ONLY. DO NOT CONNECT TO EXISTING 'NOTIFIER' BUILDING FIRE ALARM SYSTEM. THIS CONTROL PANEL AND DEVICES SHALL SERVE ONLY COMMERCIAL ELECTRICAL LAB ROOMS. PROVIDE ALL LOW VOLTAGE WIRING FOR A COMPLETE SYSTEM.
 - LOCATION FOR FIRE ALARM SYSTEM NAC PANELS FOR LABS ONLY. DO NOT CONNECT TO EXISTING 'NOTIFIER' BUILDING FIRE ALARM SYSTEM.
 - WTC FACILITY PLANT (OWNER) SHALL PROVIDE A DOOR ACCESS SYSTEM CONTROL PANEL. ELECTRICAL CONTRACTOR SHALL INSTALL IN THIS APPROXIMATE LOCATION FOR LABS ONLY. DO NOT CONNECT TO EXISTING BUILDING DOOR ACCESS SYSTEM. COORDINATE WITH WTC FACILITY PLANT DEPARTMENT.
 - WTC SHALL PROVIDE DOOR ACCESS SYSTEM POWER SUPPLIES AS REQUIRED AND ELECTRICAL CONTRACTOR SHALL INSTALL ADJACENT TO CONTROL PANEL.
 - PROVIDE A 18U WALL-MOUNTED IT EQUIPMENT RACK AS SPECIFIED. COORDINATE WITH ELECTRICAL APPRENTICESHIP INSTRUCTOR FOR EXACT LOCATION. STUB AN EMPTY 2" EMT FROM EQUIPMENT RACK TO CABLE TRAY FOR LOW VOLTAGE WIRING PATH. REFER TO DETAIL 2/E404.
 - PROVIDE A 12" X 4" DEEP WIRE BASKET CABLE TRAY, COORDINATE INSTALLATION WITH ELECTRICAL APPRENTICESHIP INSTRUCTOR.
 - PROVIDE A 12" X 12 X 8" JUNCTION BOX FOR FIRE ALARM SYSTEM IN ELECTRICAL COMMERCIAL LAB ROOMS ONLY, INSTALL AS DIRECTED BY ELECTRICAL APPRENTICESHIP INSTRUCTOR.
 - PROVIDE 1" EMT 'HOME-RUN' TO FIRE ALARM CONTROL PANEL LOCATED IN ELECTRICAL ROOM #120. PROVIDE LOW VOLTAGE FIRE ALARM SYSTEM WIRING AS REQUIRED.
 - PROVIDE AN EIGHT RELAY 'WATSTOPPER' LIGHTING CONTROL PANEL, MODEL LCB, OR EQUAL.
 - CONNECT LIGHTING FIXTURE TO RELAY IN LIGHTING CONTROL PANEL LOCATED IN ELECTRICAL ROOM #120.
 - PROVIDE A 30 KVA, 480 VAC, 3-PHASE, DELTA PRIMARY AND 120/240 VAC, 3-PHASE, 4-WIRE DELTA SECONDARY. PLEASE MAKE SURE TO INCLUDE A B PHASE 'HIGH-LEG' CONFIGURATION FOR THIS TRANSFORMER.
 - PROVIDE A 30 KVA, 480 VAC, 3-PHASE, DELTA PRIMARY AND 120/208 VAC, 3-PHASE, 4-WIRE Y SECONDARY.
 - PROVIDE A HILT, MODEL #E233E FIRE STOP SLEEVE THROUGH WALL, OR EQUAL PRODUCT.
 - PROVIDE A 4" EMT CONDUIT SLEEVE FOR LOW VOLTAGE CABLES. PROVIDE PLASTIC BUSHINGS ON EACH END OF CONDUIT.
 - PROVIDE A SIZE 0, 480VAC, 3-POLE, COMBINATION MOTOR STARTER WITH 120 VAC CONTROL COIL AS SPECIFIED, IN ADDITION PROVIDE A REMOTE START/STOP STATION.
 - PROVIDE A 480 VAC, 3-PHASE, VFD MOTOR DRIVE AS SPECIFIED.
 - REINSTALL PREVIOUSLY REMOVED 'RAB' EXTERIOR WALL PACK IN THIS APPROXIMATE LOCATION. REFER TO NOTE #23 ON SHEET E002.
 - PROVIDE A DIGITAL PROGRAMMABLE LOW VOLTAGE LIGHT SWITCH COMPATIBLE WITH WATSTOPPER LIGHTING CONTROL PANEL 'LCB' LOCATED IN ELECTRICAL ROOM #120. PROGRAM AS DIRECTED BY ELECTRICAL APPRENTICESHIP INSTRUCTOR.
 - REFER TO DETAIL 6/E402 FOR ELECTRONIC DOOR ACCESS CONTROL DETAIL.
 - FOR COMMERCIAL LABS #126, #128, #129, #130, #131 & #132 PROVIDE A 1" EMT CONDUIT WITH 'SMART CABLE' TO DOOR ACCESS CONTROL PANEL LOCATED IN ELECTRICAL ROOM #120.



1 ENLARGED ELECTRICAL ROOM 120 AND ELECTRICAL COMMERCIAL LAB PLANS
E202 SCALE: 1/2" = 1'-0"

1907-E-PP01-ENLGD