



Project
CP210981 New Indoor
Practice Facility

UNIVERSITY OF
MISSOURI - COLUMBIA
FOR THE CURATORS OF
THE UNIVERSITY OF
MISSOURI
1200 S. Providence Rd. Columbia, MO
65201



Heilmuth, Obata & Kassabaum, Inc.
300 West 22nd Street
Kansas City, MO 64108 USA
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In Association with

Client: SK DESIGN GROUP, INC.
4800 College Boulevard, Suite 100
Overland Park, KS 66211
t: 913 451 1818

Building Code / Fire Protection:
FSC
6075 W. 89th Street
Overland Park, KS 66212
t: 913 722 3473

Structural: THORNTON TOMASETTI
2323 Grand Blvd., Suite 900
Kansas City, Missouri 64108
m: 816 221 7771

Mechanical / Electrical / Plumbing / AV / TELECOM /
SECURITY: HENDERSON ENGINEERS
1801 Main Street, Suite 300
Kansas City, MO 64108
t: 816 863 8700

Landscape: HOK
331 W. 22nd Street
Kansas City, MO 64108
t: 816 472 3360

Door Hardware: Studio DB
5800 W. 95th Street, Suite 216
Overland Park, KS 66207
m: 816 931 5426

Field Consultant: Kimley-Horn
1829 Walnut Street, Suite 06-100
Kansas City, MO 64108
m: 913 318 8488

Irrigation: Ecosystems
2812 SW Whittier Drive
Lee Summit, MO 64081
m: 816 210 6358

Professional Seal



No.	Description	Date
1	Addendum 02	07/29/2021

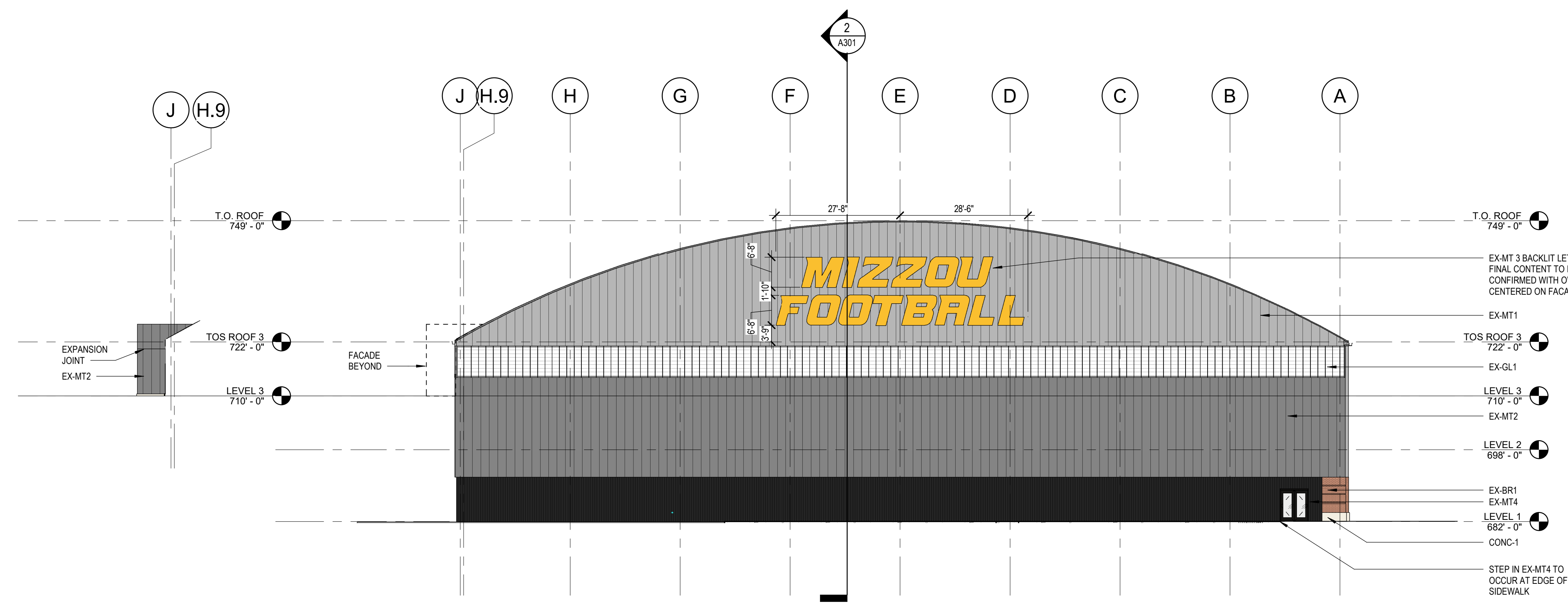
Issued For:	BID DOCUMENTS
Issued Date:	07 13 2021
Project No.:	20 700642 00
Sheet Title:	ELEVATIONS

ELEVATIONS

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number

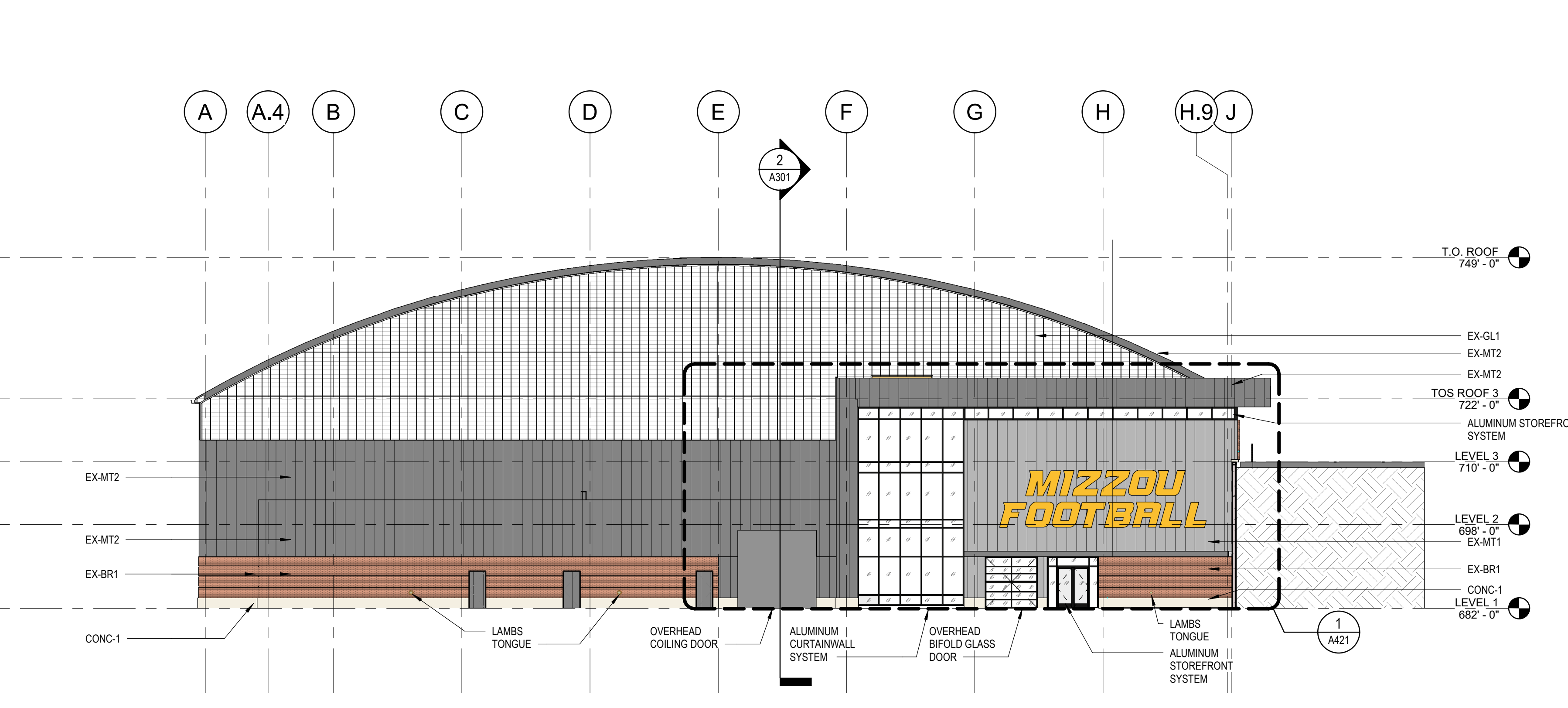
A201

EXTERIOR MATERIAL LEGEND	
CONC-1	CONCRETE STEM WALL BASE, RUBBED FINISH
EX-MT1	ALTERNATE 1. PRECAST BASE IN ALL CONC-1 LOCATIONS
EX-MT2	MEDIUM GRAY METAL PANEL, INTERIOR FACE OF PANEL, PREFINISHED, COLOR: ISGL00 WHITE
EX-MT3	DARK GRAY METAL PANEL, INTERIOR FACE OF PANEL, PREFINISHED, COLOR: ISGL00 WHITE
EX-MT4	GOLD METAL PANEL - SIGNAGE LOCATIONS ONLY
EX-MT5	BLACK METAL PANEL WITH TRANSLUCENT PANELS
EX-GL1	INSULATED GLAZED UNIT, SEE A421 FOR TEMPERED LOCATIONS
EX-GL2	FRITTED INSULATED GLAZED UNIT
EX-GL3	BRICK FACADE WITH OUT OF PLANE BRICK BANDING EVERY 2'
EX-BR1	STANDING SEAM METAL ROOF SYSTEM
EX-SS1	PREFINISHED METAL GUTTERS AND DOWNSPOUTS, COLOR TO MATCH EX-MT2 TYP. GUTTER: MIN 7" X 7", TYP. DOWNSPOUT: MIN 5" X 5"

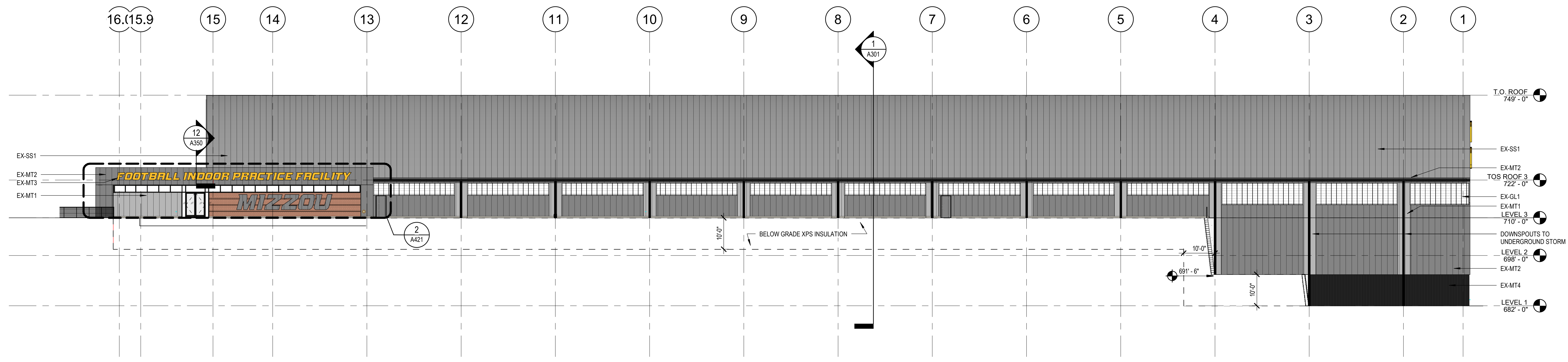


6 SOUTH ELEVATION - BUMP OUT
1/16" = 1'-0"

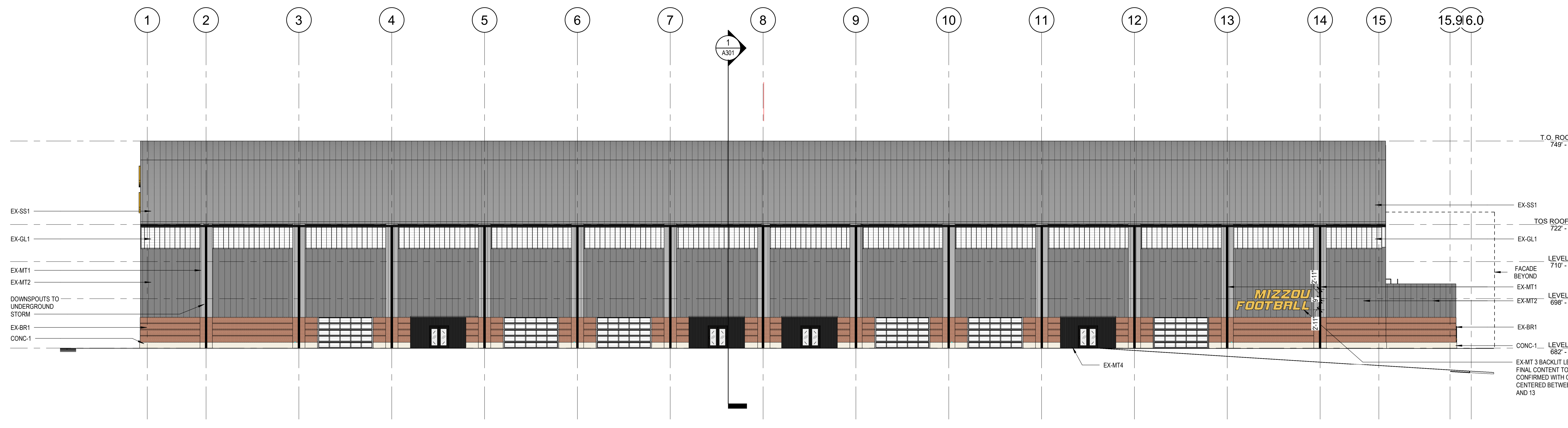
5 SOUTH ELEVATION
1/16" = 1'-0"



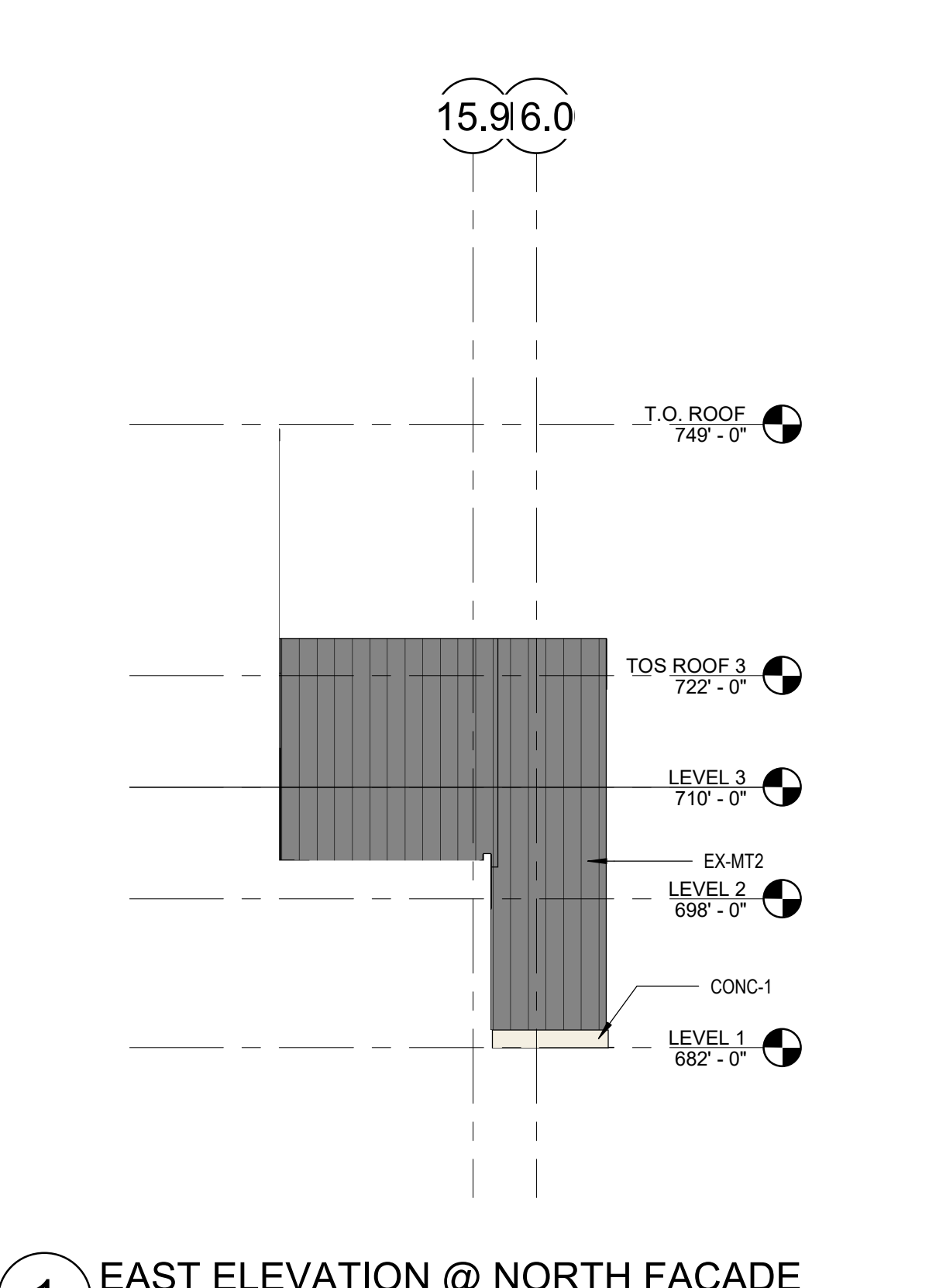
4 NORTH ELEVATION
1/16" = 1'-0"



3 WEST ELEVATION
1/16" = 1'-0"



2 EAST ELEVATION
1/16" = 1'-0"



1 EAST ELEVATION @ NORTH FACADE
1/16" = 1'-0"

2021-07-28 9:12:07 AM

TOILET ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MANUF.	OPCI	COMMENTS
TA-1	PAPER TOWEL DISPENSER	BOBRICK		MODEL: SURFACE MOUNTED, B-2621
TA-2	DECK MOUNTED SOAP DISPENSER	ZURN	X	MODEL: Z690-SD, SERIO SERIES SENSORY-OPERATED LAVATORY SOAP DISPENSER, 1 PER LAV
TA-3	HAND DRYER	XLERATOR + RECESS KIT	X	XLERATOR HAND DRYER + (ADA COMPLIANT) RECESS KIT, BRUSHED STAINLESS STEEL
TA-4	TOILET TISSUE DISPENSER	N/A	X	1 PER STALL/TOILET, 3 ROLL DISPENSER, UNIVERSITY STANDARD MODEL
TA-5	BABY CHANGING STATION	BOBRICK	X	MODEL: HB170-SSWM, HORIZONTAL, WALL MOUNTED
TA-6	HAND SANITIZER DISPENSER	N/A	X	UNIVERSITY STANDARD MODEL
TA-7	SANITARY NAPKIN DISPOSAL	BOBRICK	X	AT TOILET PARTITIONS, 1 PER WOMEN STALL, MODEL: B-270, SURFACE MOUNTED
TA-8	MOP RACK/UTILITY SHELF	BOBRICK	X	MODEL: B-224, (NEAR MOP SINK, TYP.)
TA-9	18" GRAB BAR (VERTICAL)	BOBRICK	X	MODEL: B-6806 X 18, SATIN FINISH, RE: DETAILS ON A001
TA-10	36" GRAB BAR (HORIZONTAL)	BOBRICK	X	MODEL: B-6806 X 36, SATIN FINISH, RE: DETAILS ON A001
TA-11	42" GRAB BAR (HORIZONTAL)	BOBRICK	X	MODEL: B-6806 X 42, SATIN FINISH, RE: DETAILS ON A001
TA-12	MIRROR	BOBRICK	X	MODEL: B-200 2448, STAINLESS STEEL, SIZE: 24" X 48"
TA-13	COAT HOOK	BOBRICK	X	MODEL: B-6717, SATIN FINISH, AT INTERIOR SIDE OF ALL RESTROOM PARTITION DOORS

OPCI - OWNER PURCHASED, CONTRACTOR INSTALLED
 CPCI - CONTRACTOR PURCHASED, CONTRACTOR INSTALLED

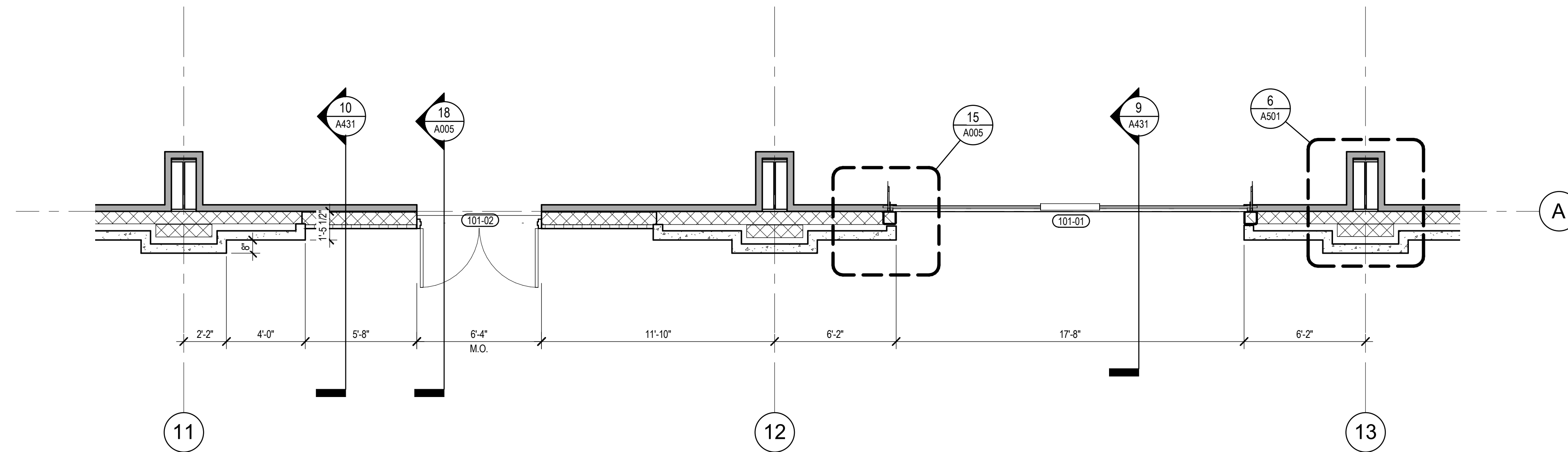
GENERAL NOTE: REFER TO DETAILS ON A001 FOR TYPICAL MOUNTING LOCATIONS OF TOILET ACCESSORIES

RAILING KEYNOTES

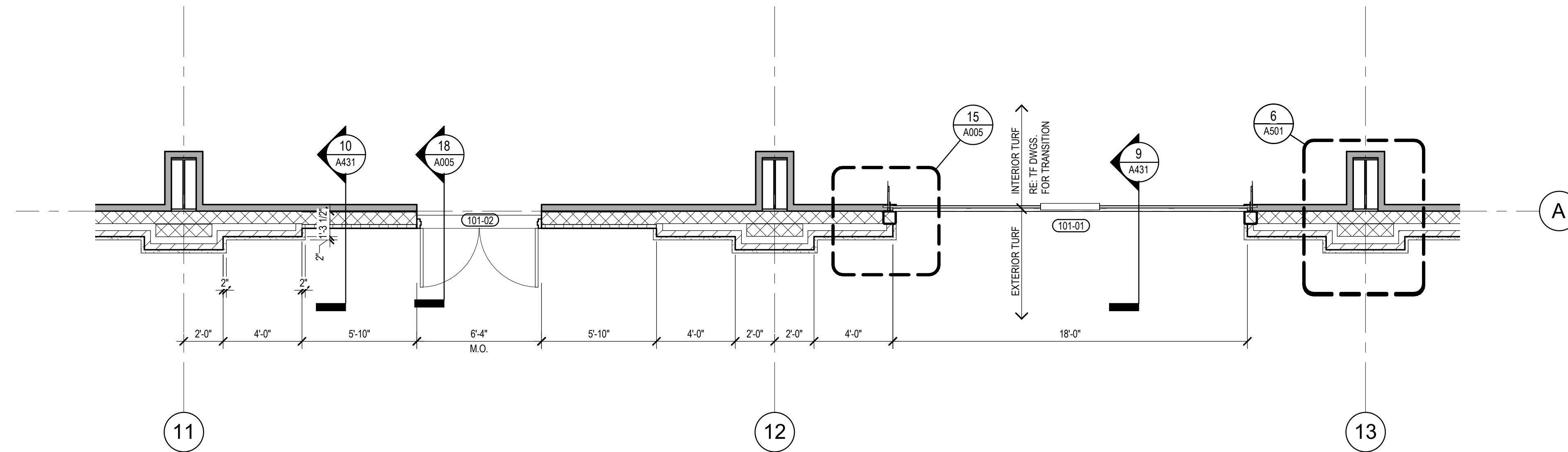
- (R1) TYPICAL GUARDRAIL AT SLAB EDGE
- (R1A) TYPICAL GUARDRAIL AT STEEL GRATING
- (R1B) TYPICAL GUARDRAIL AT STEEL PLATE STAIR
- (R1C) TYPICAL GUARDRAIL AT CONCRETE FILLED METAL PAN STAIR
- (R2) DRINK RAIL AT ADA LOCATIONS
- (R3) DRINK RAIL
- (R4) GUARDRAIL AT VIEWING PLATFORM
- (R5) GUARDRAIL AT VIEWING PLATFORM- FLIP DOWN
- (R6) CANE DETECTION
- (R7) HANDRAIL - RETURN TO FLOOR
- (R8) HANDRAIL - RETURN TO WALL OR GUARDRAIL

FLOOR PLAN LEGEND

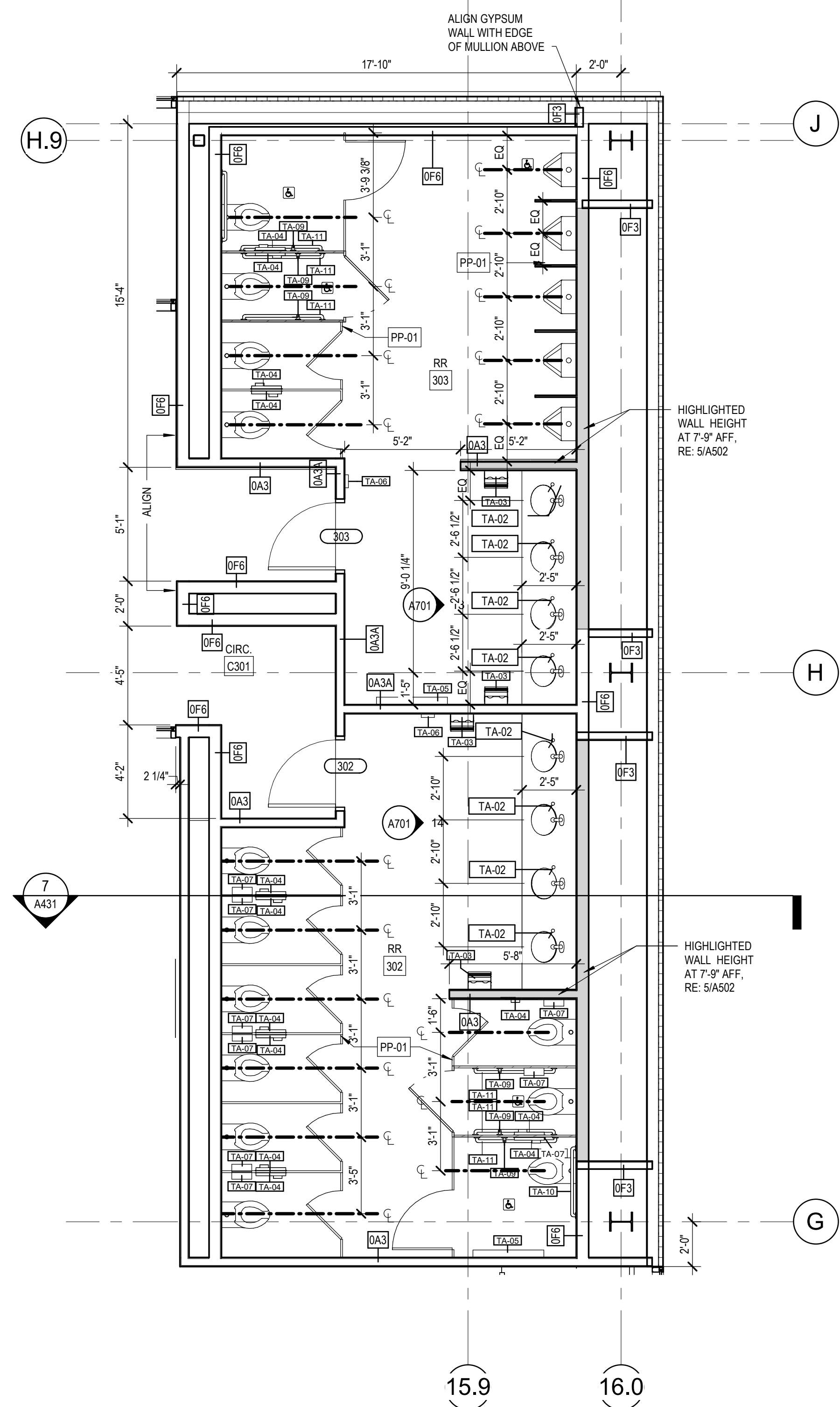
- WP-01, WALL PADDING, 7'-4" HIGH, CUSTOM PRINTED GRAPHIC
- [FEC] FIRE EXTINGUISHER CABINET
- [FEC-R] RECESSED FIRE EXTINGUISHER CABINET
- GLAZING, SEE GLAZING SCHEDULE
- RAILING, SEE RAILING LEGEND



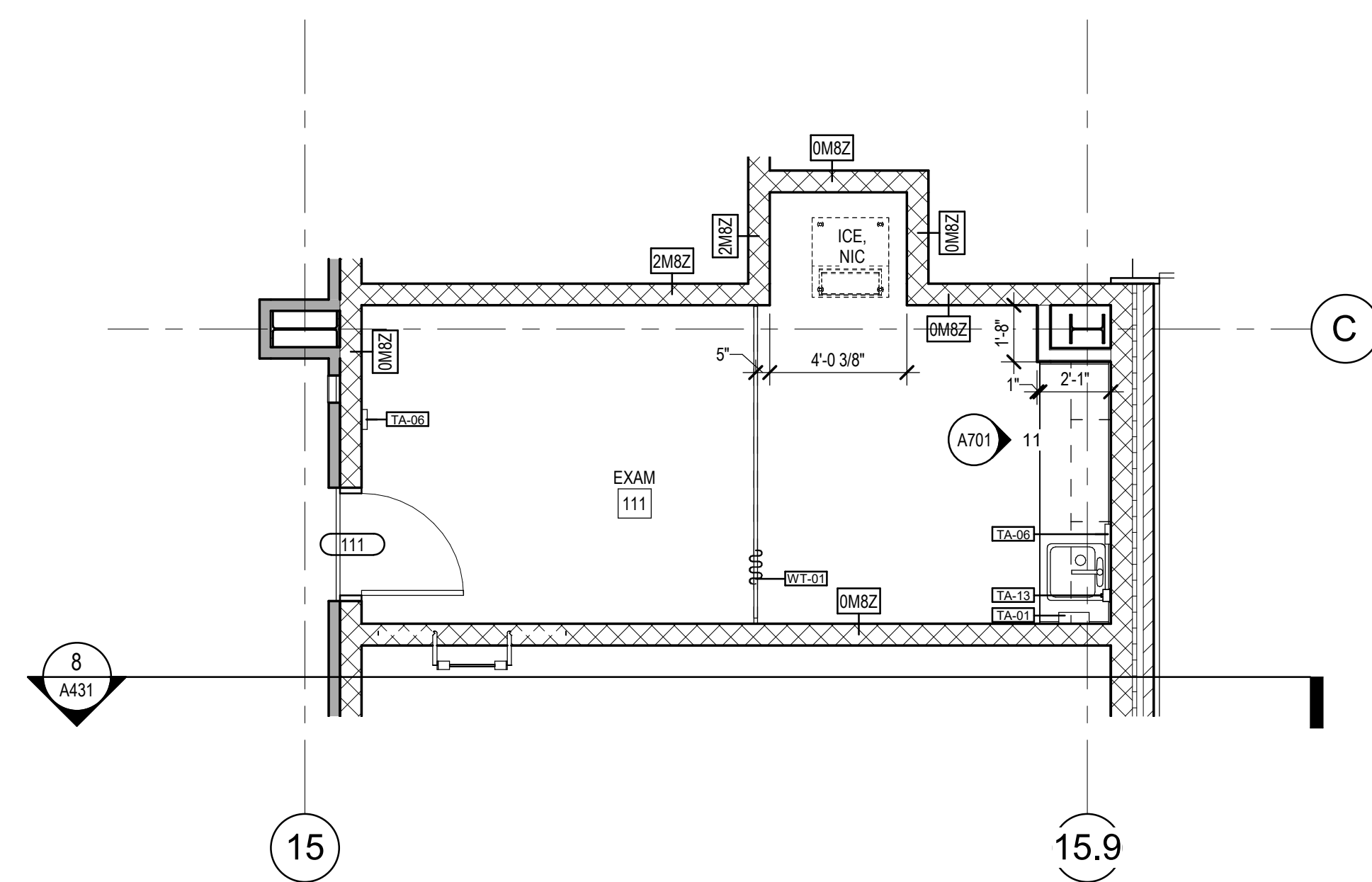
6 ENLARGED TYPICAL BAYS EAST SIDE - BASE DIMS
1/4" = 1'-0"



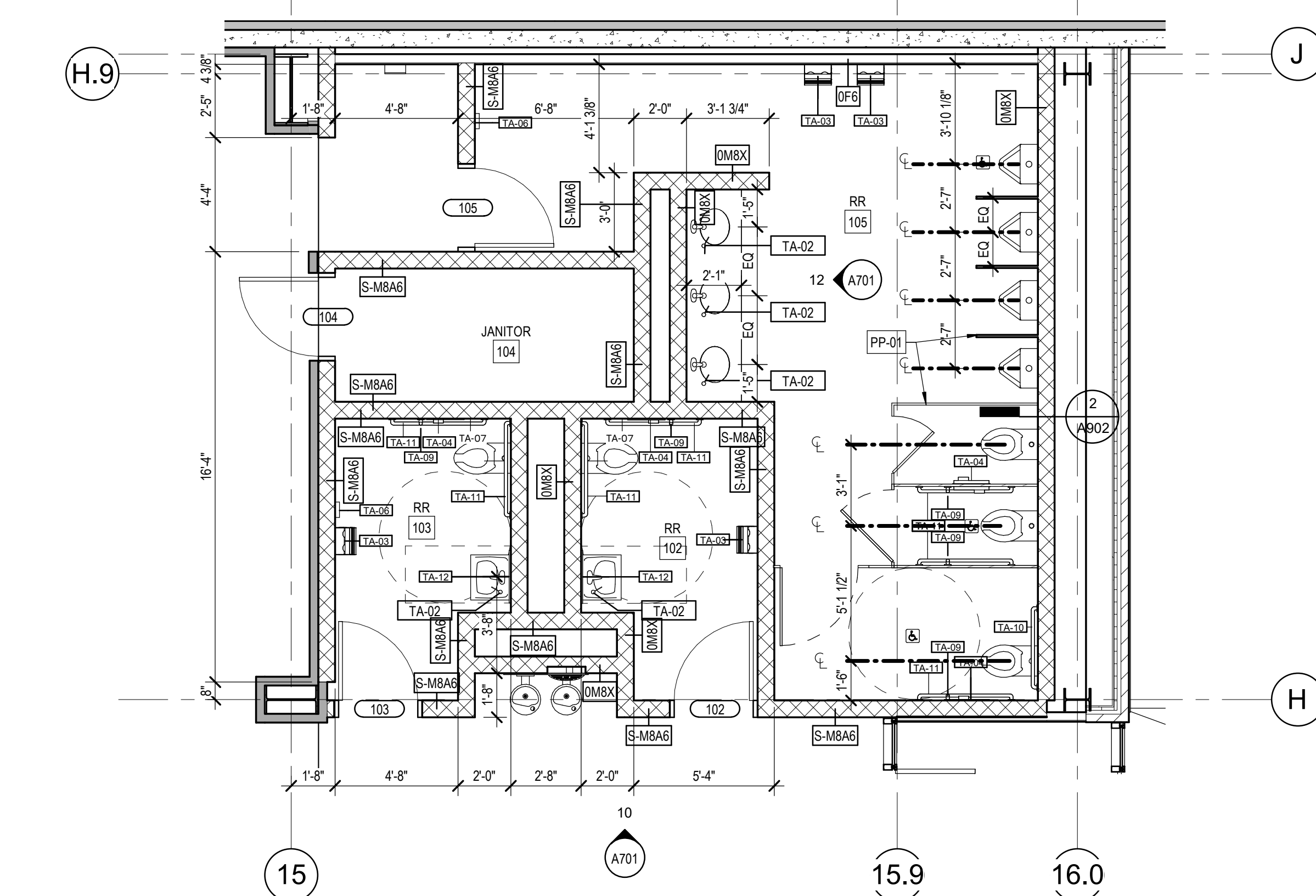
5 ENLARGED TYPICAL BAYS EAST SIDE - BRICK DIMS.
1/4" = 1'-0"



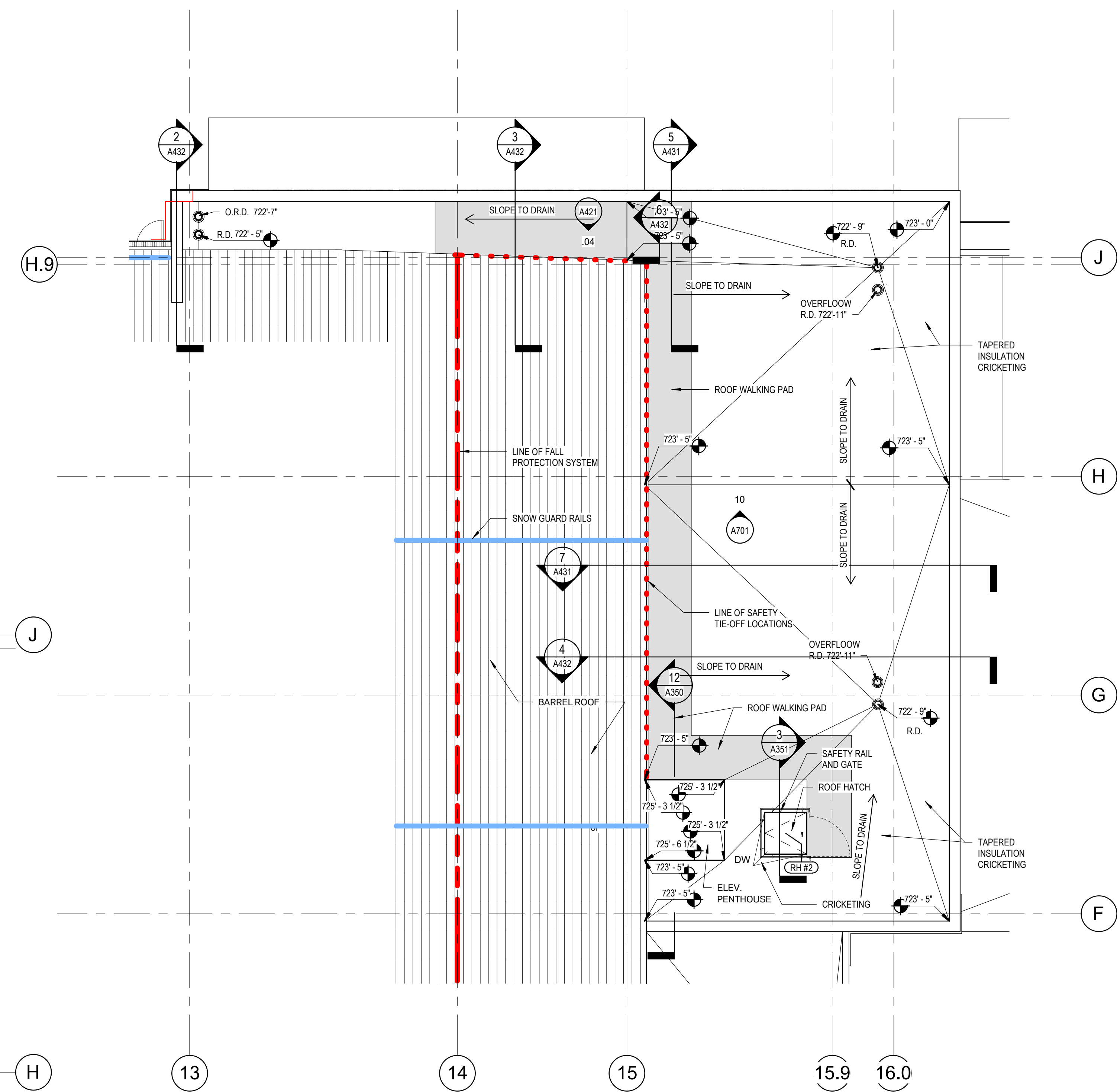
3 ENLARGED PLAN - LEVEL 03 - RESTROOMS
1/4" = 1'-0"



4 ENLARGED PLAN - LEVEL 01 - EXAM ROOM
1/4" = 1'-0"



2 ENLARGED PLAN - LEVEL 01 - RESTROOMS
1/4" = 1'-0"



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



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t: 816 863 8700

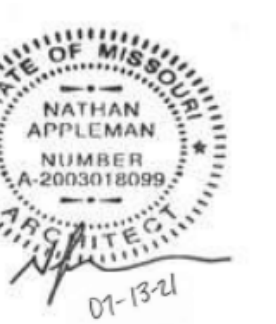
Landscape: HOK
331 W. 22nd Street
Kansas City, MO 64108
t: 816 472 3360

Door Hardware: Studio 08
5800 W. 95th Street, Suite 216
Overland Park, KS 66207
m: 816 931 5426

Field Consultant: Kimley-Horn
1829 Walnut Street, Suite 06-100
Kansas City, MO 64108
m: 913 318 8488

Irrigation: Ecosystems
2312 SW Whittier Drive
Lee Summit, MO 64081
m: 816 210 6598

Professional Seals



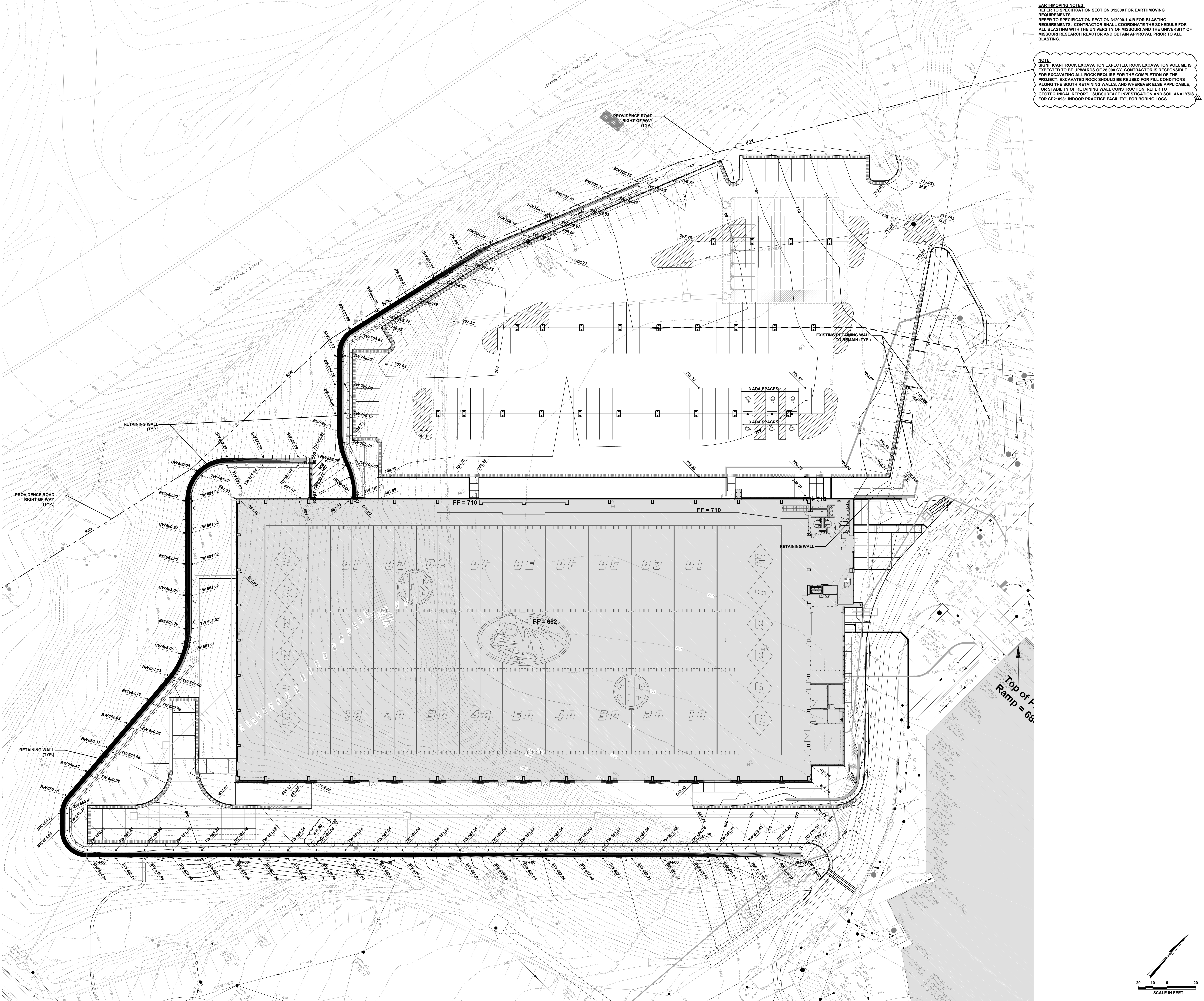
No.	Description	Date
1	Addendum 02	07/29/2021

Issued For: BID DOCUMENTS
Issued Date: 07 13 2021
Project No.: 20 700642.00
Sheet Title

ENLARGED PLAN VIEWS

Original is A4 x 36. Do not scale contents of this drawing.
Sheet Number

A402



EARTHMOVING NOTES:
 REFER TO SPECIFICATION SECTION 312000-1.4-B FOR EARTHMOVING REQUIREMENTS.
 REFER TO SPECIFICATION SECTION 312000-1.4-B FOR BLASTING REQUIREMENTS. CONTRACTOR SHALL COORDINATE THE SCHEDULE FOR ALL BLASTING WITH THE UNIVERSITY OF MISSOURI AND THE UNIVERSITY OF MISSOURI RESEARCH REACTOR AND OBTAIN APPROVAL PRIOR TO ALL BLASTING.

NOTE:
 SIGNIFICANT ROCK EXCAVATION EXPECTED. ROCK EXCAVATION VOLUME IS EXPECTED TO BE UPWARDS OF 25,000 CY. CONTRACTOR IS RESPONSIBLE FOR EXCAVATING ALL ROCK. REQUIRE FOR THE COMPLETION OF THE PROJECT. EXCAVATED ROCK SHOULD BE REUSED FOR FILL CONDITIONS ALONG THE SOUTH RETAINING WALLS, AND WHEREVER ELSE APPLICABLE. FOR STABILITY OF RETAINING WALL CONSTRUCTION. REFER TO GEOTECHNICAL REPORT, "SUBSURFACE INVESTIGATION AND SOIL ANALYSIS FOR CP210981 INDOOR PRACTICE FACILITY," FOR BORING LOGS.



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 8675 W. 96th Street
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 t 913.722.3473

Structural:
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 2323 Grand Blvd., Suite 900
 Kansas City, Missouri 64108
 m. 816.221.7771

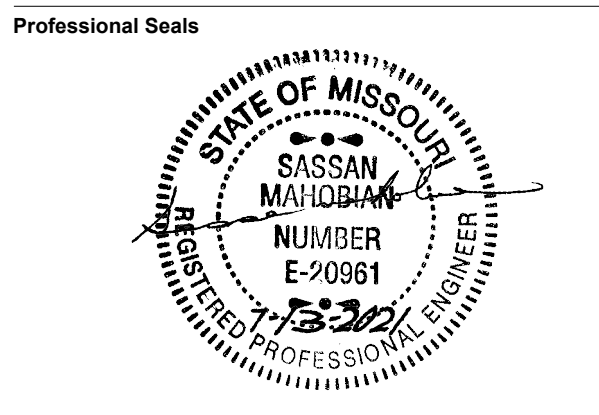
Mechanical / Electrical / Plumbing / AV / TELECOM / SECURITY:
 HENDERSON ENGINEERS
 1801 Main Street, Suite 300
 Kansas City, MO 64108
 t 816.863.8700

Landscape:
 HOK
 300 W. 22nd Street
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 t 816.472.3360

Door Hardware:
 Studio 08
 5000 W. 95th Street, Suite 216
 Overland Park, KS 66207
 m. 913.931.5425

Field Consultant:
 Kimley-Horn
 1828 Walnut Street, Suite 05-100
 Kansas City, MO 64108
 m. 913.318.8488

Irrigation:
 Ecosystems
 2612 SW Winterset Drive
 Lee's Summit, MO 64081
 m. 816.246.1082



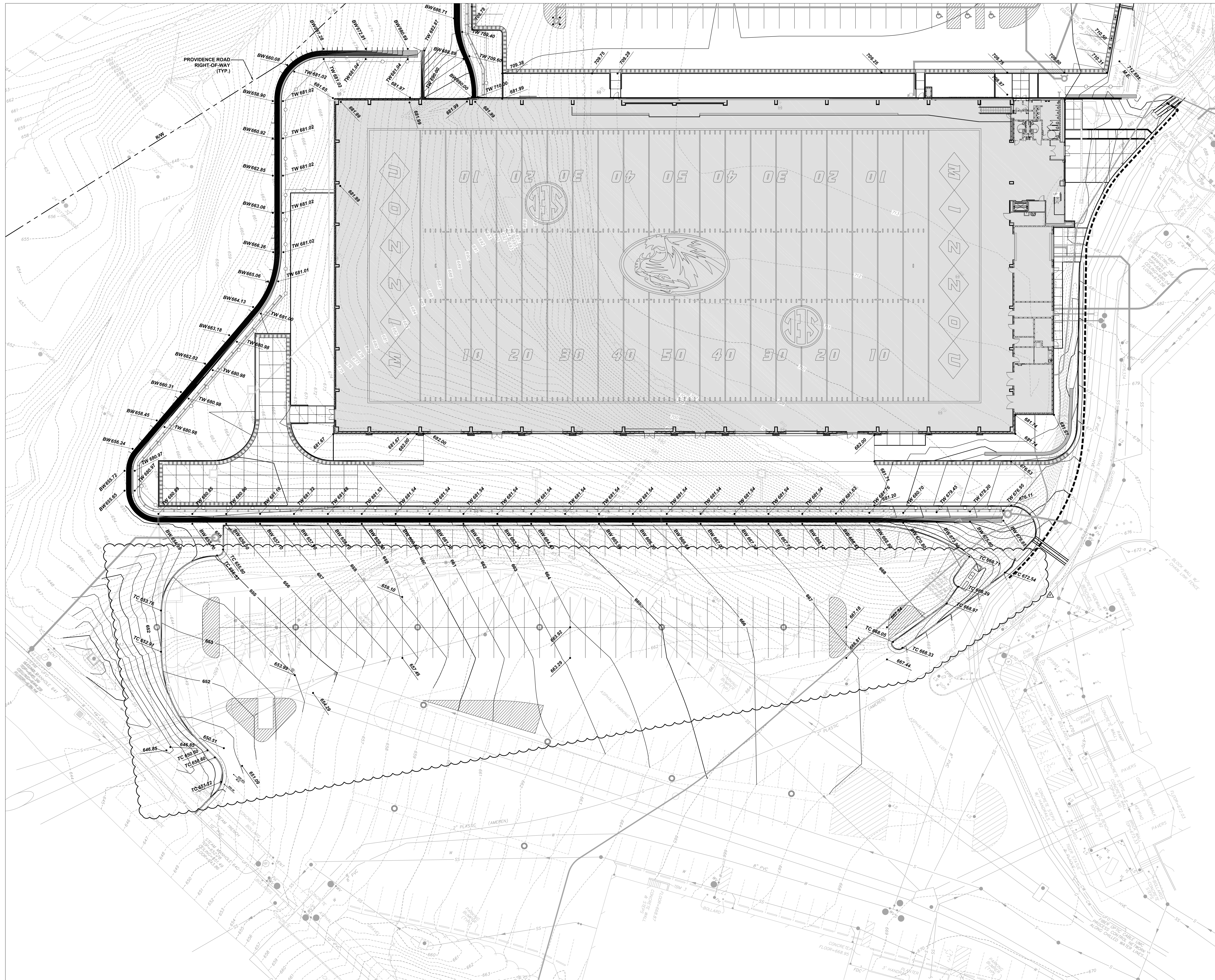
No.	Description	Date
2	ADDENDUM 02	7/29/2021

Issued For: BID DOCUMENTS
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 Project No.: 20.70064.00
 Sheet Title:

SITE GRADING PLAN - 1

Original is 48" x 36". Do not scale contents of this drawing.
 Sheet Number
C301

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t 913.722.3473

Structural:
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2323 Grand Blvd., Suite 900
Kansas City, Missouri 64108
m. 816.221.7771

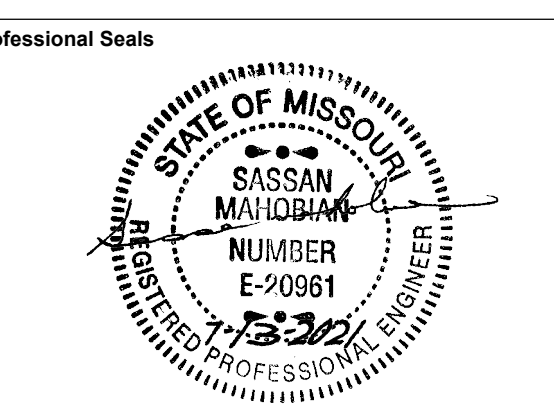
Mechanical / Electrical / Plumbing / AV / TELECOM /
SECURITY
HENDERSON ENGINEERS
1801 Main Street, Suite 300
Kansas City, MO 64108
t 816.863.8700

Landscape:
HOK
300 W. 22nd Street
Kansas City, MO 64108
t 816.472.3360

Door Hardware:
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5600 W. 95th Street, Suite 216
Overland Park, KS 66207
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Field Consultant:
Kimley-Horn
1828 Walnut Street, Suite 05-100
Kansas City, MO 64108
m. 913.318.8488

Irrigation:
Ecosystems
2612 SW Wittengrad Drive
Lee's Summit, MO 64081
m. 816.246.1082

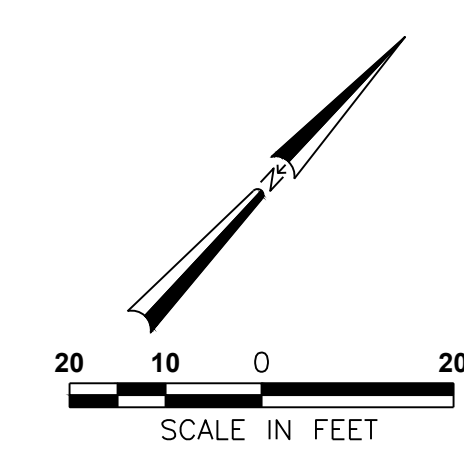


No.	Description	Date
2	ADDENDUM 02	7/29/2021

Issued For: BID DOCUMENTS
Issued Date: 07.13.2021
Project No: 20.70064.00
Sheet Title:

**GRADING PLAN - 2
ALTERNATE LOT G**

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Sheet Number
C302





Project
CP210981 New Indoor
Practice Facility

THE UNIVERSITY OF
MISSOURI - COLUMBIA,
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Structural:
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Kansas City, Missouri 64108
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Mechanical / Electrical / Plumbing / AV / TELECOM /
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Kansas City, MO 64108
t. 816 663 8700

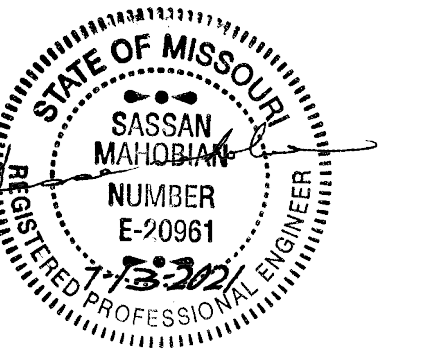
Landscape:
HOK
300 W. 22nd Street
Kansas City, MO 64108
T 816 472 3360

Door Hardware:
Studio DB
3000 W. 95th Street, Suite 216
Overland Park, KS 66207
m. 913 931 5425

Field Consultant:
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1828 Walnut Street, Suite 06-100
Kansas City, MO 64108
m. 913 318 8488

Irrigation:
Ecosystems
2612 SW Wittengarten Drive
Lee's Summit, MO 64081
m. 816 246 1082

Professional Seals



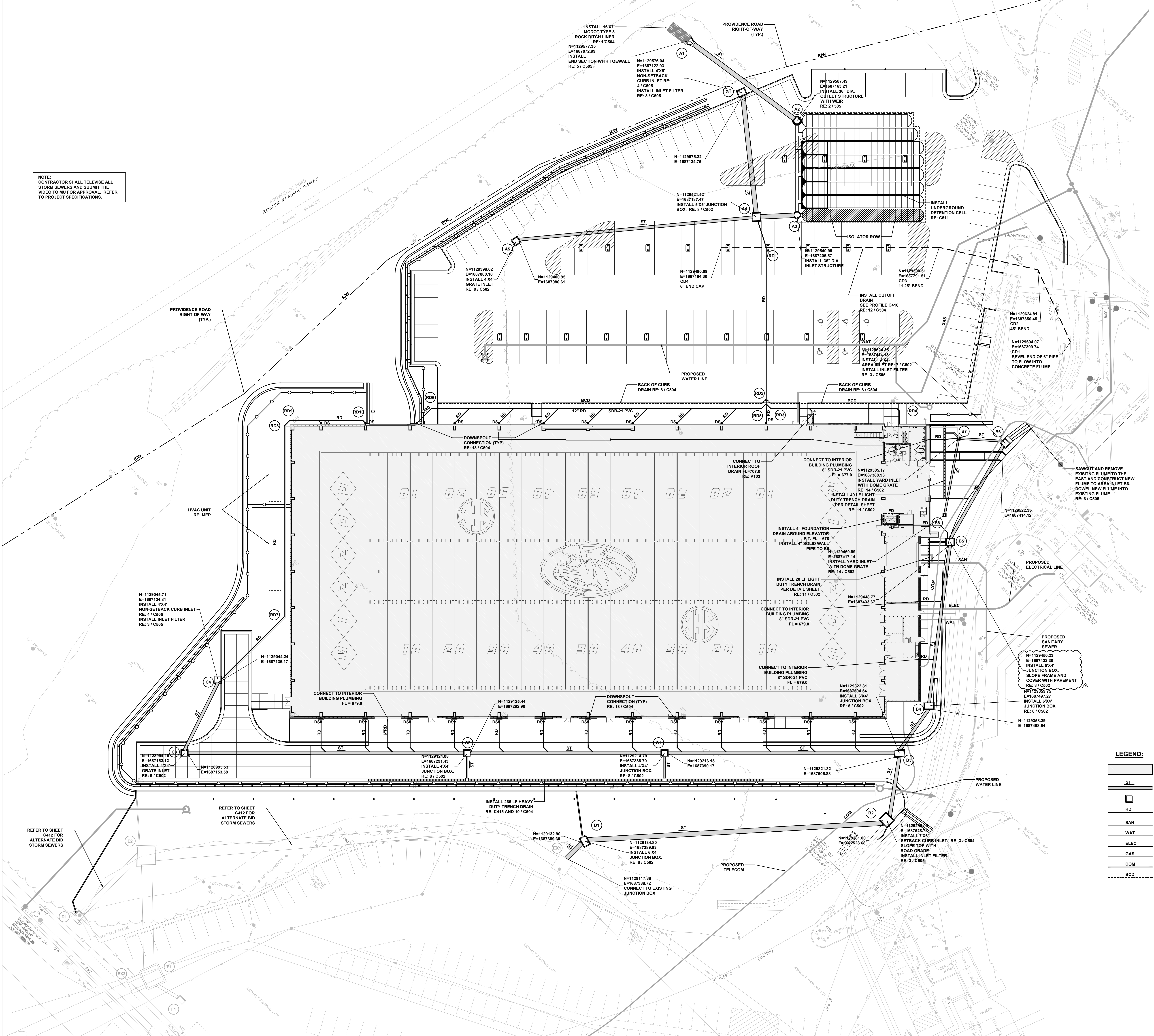
No.	Description	Date
2	ADDENDUM 02	7/29/2021

Symbol	Description
[Solid Line]	NEW BUILDING
[Line with 'ST']	NEW STORM SEWER
[Line with 'RD']	NEW ROOF DRAIN
[Line with 'SAN']	NEW SANITARY SERVICE
[Line with 'WAT']	NEW WATER MAIN
[Line with 'ELEC']	NEW ELECTRICAL
[Line with 'GAS']	NEW GAS
[Line with 'COM']	NEW COMMUNICATIONS
[Line with 'BCD']	BACK OF CURB DRAIN

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Project No.: 20.70064.00
Sheet Title:

**SITE STORM SEWER
PLAN - 1**

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number
C411



NOTE:
CONTRACTOR SHALL TELEVISION ALL
STORM SEWERS AND SUBMIT THE
VIDEO TO MU FOR APPROVAL. REFER
TO PROJECT SPECIFICATIONS.

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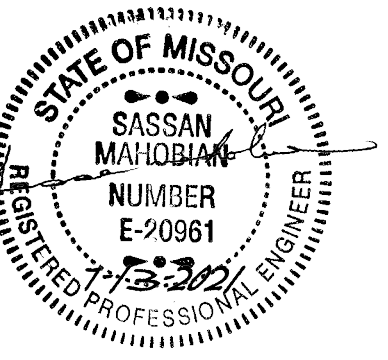
Landscape:
HOK
330 W. 22nd Street
Kansas City, MO 64108
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Door Hardware:
Studio DB
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Professional Seals



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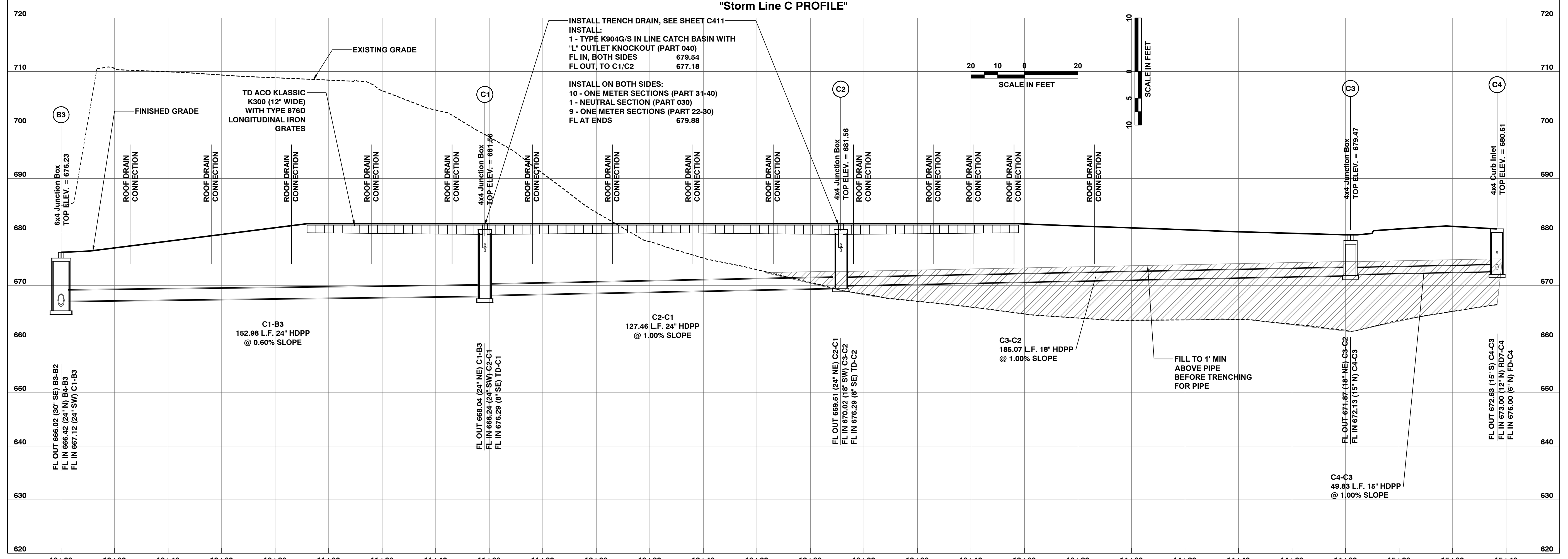
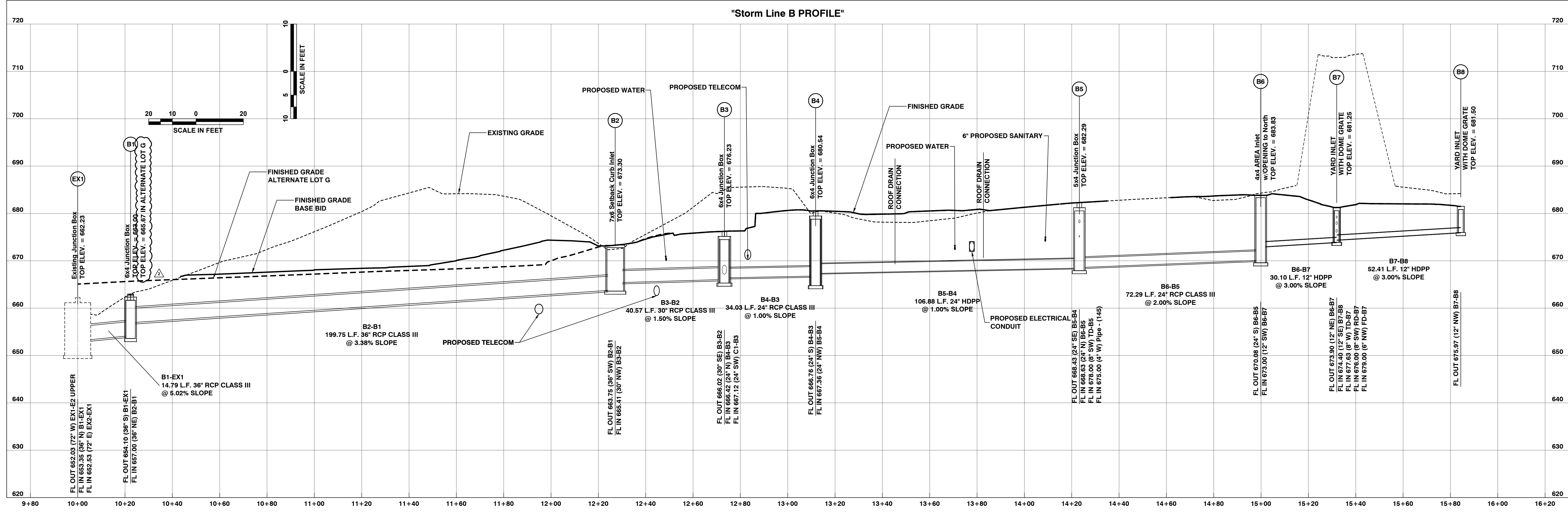
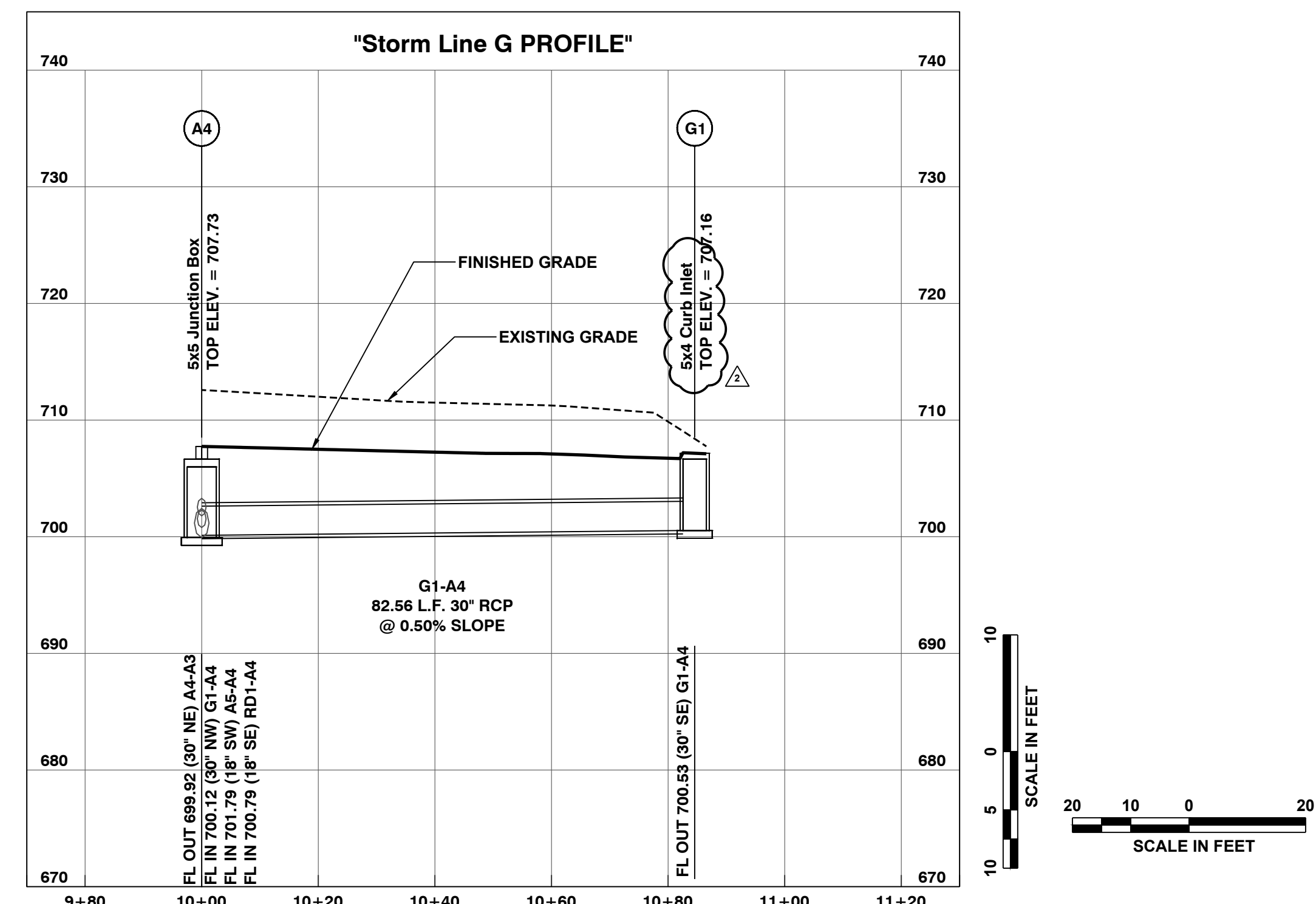
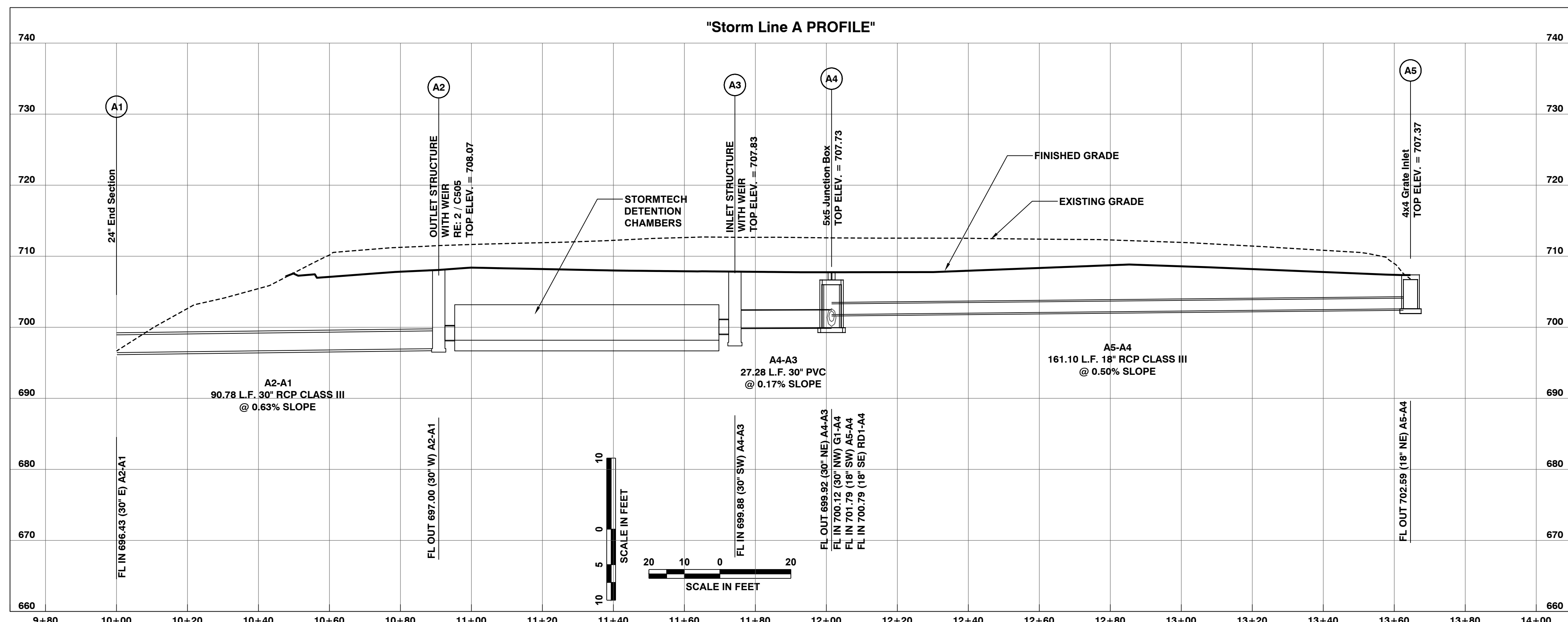
Issued For: BID DOCUMENTS
Issued Date: 07/13/2021
Project No.: 20-70064-00

Sheet Title:
**STORM SEWER
PROFILES - 1**

Original is 48" x 36". Do not scale contents of this drawing.

Sheet Number

C415



ROOF DRAIN NOTE:
INSTALL INSERTA TEE AT EACH ROOF
DRAIN CONNECTION TO NEW HDPP PIPE.

"HDPP": POLYPROPYLENE PIPE NOTE:
HIGH DENSITY POLYETHYLENE PIPE (HDPE) IS NOT EQUIVALENT TO POLYPROPYLENE PIPE.
DUAL WALL AND TRIPLE WALL POLYPROPYLENE STORM SEWER PIPE. DUAL WALL PIPE AND FITTINGS 12 INCH THROUGH 24 INCH
DIAMETER SHALL CONFORM TO ASTM F2736 AND TRIPLE WALL PIPE 30 INCH THROUGH 60 INCH SHALL CONFORM TO ASTM F2764,
EXCEPT AS OTHERWISE SPECIFIED HEREIN. DUAL WALL POLYPROPYLENE PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR
CORRUGATIONS. TRIPLE WALL POLYPROPYLENE PIPE SHALL HAVE A SMOOTH INTERIOR AND EXTERIOR WITH ANNULAR INNER
CORRUGATIONS. PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE
SHALL BE JOINED WITH AN INTEGRAL BELL AND SPIGOT JOINT ON ALL SIZES. THE JOINTS SHALL BE WATER TIGHT IN ACCORDANCE WITH
ASTM D3212. THE SPIGOT SHALL HAVE TWO GASKETS MEETING THE REQUIREMENTS OF ASTM F477. THE GASKETS SHALL BE INSTALLED
BY THE PIPE MANUFACTURER AND SHALL BE COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKETS ARE FREE
FROM DEBRIS. A JOINT LUBRICANT SHALL BE USED ON THE GASKET AND PIPE BELL DURING ASSEMBLY. PIPE SHALL HAVE A REINFORCED
BELL WITH A POLYMER COMPOSITE BAND INSTALLED BY THE MANUFACTURER. PIPE MATERIALS SHALL MEET OR EXCEED APWA 2500
STANDARDS.



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CP210981 New Indoor
Practice Facility

THE UNIVERSITY OF
MISSOURI - COLUMBIA,
FOR THE CURATORS OF
THE UNIVERSITY OF
MISSOURI

1200 S. Providence Rd. Columbia, MO
65201



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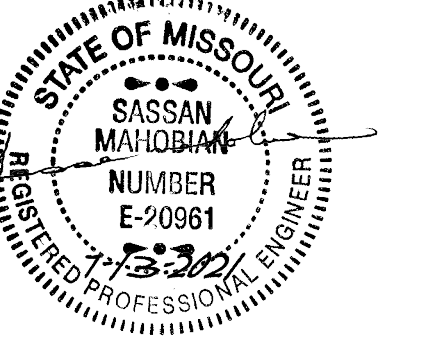
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Professional Seals



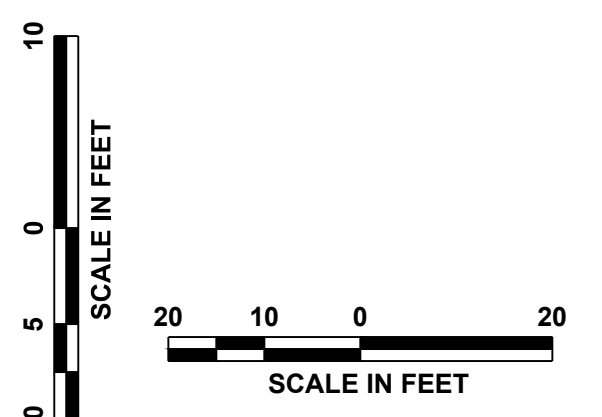
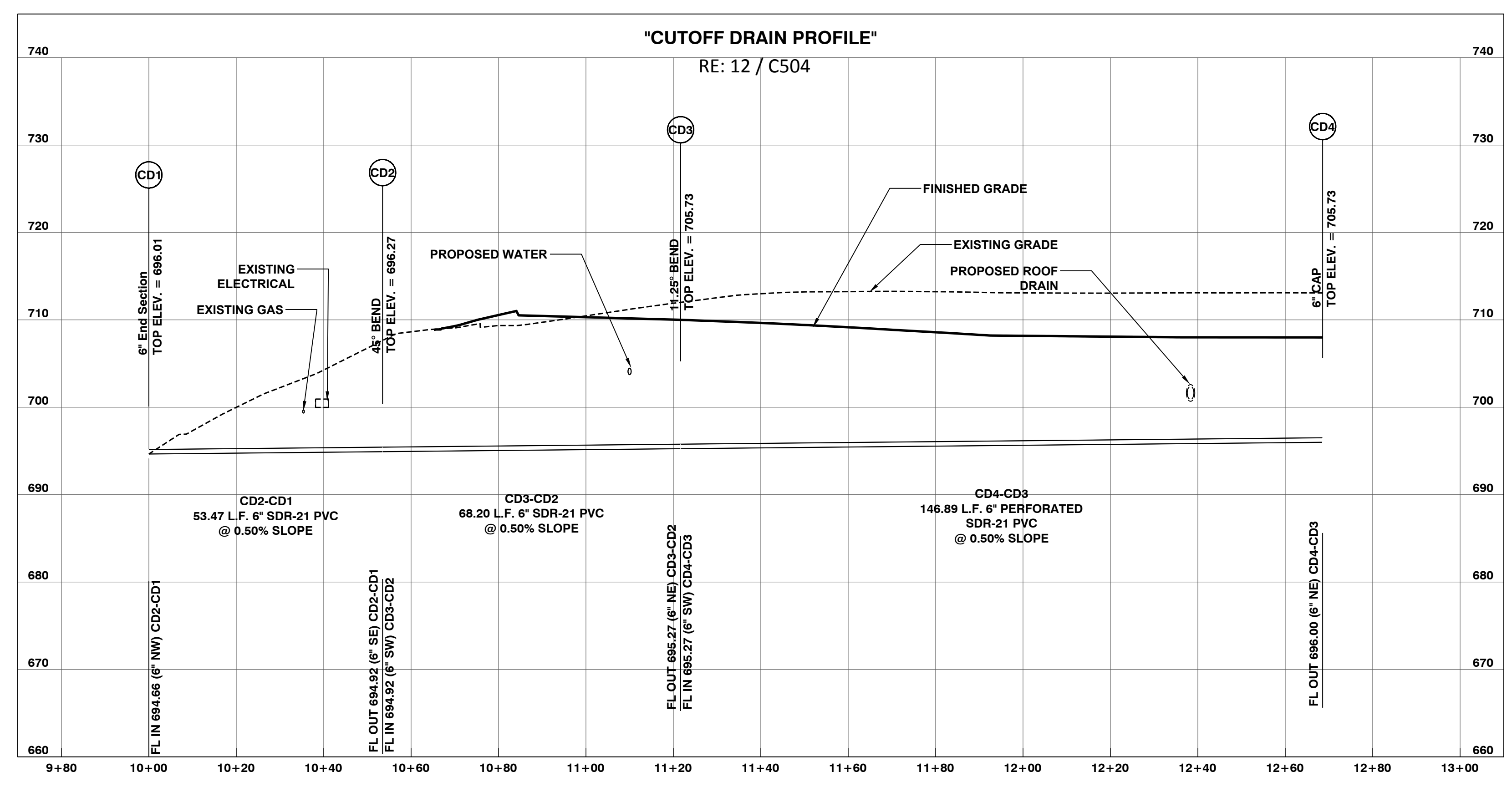
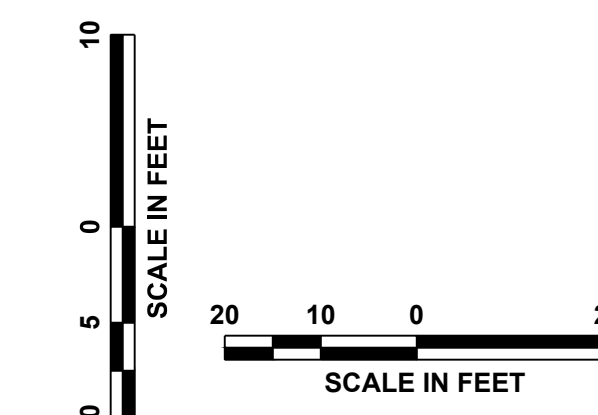
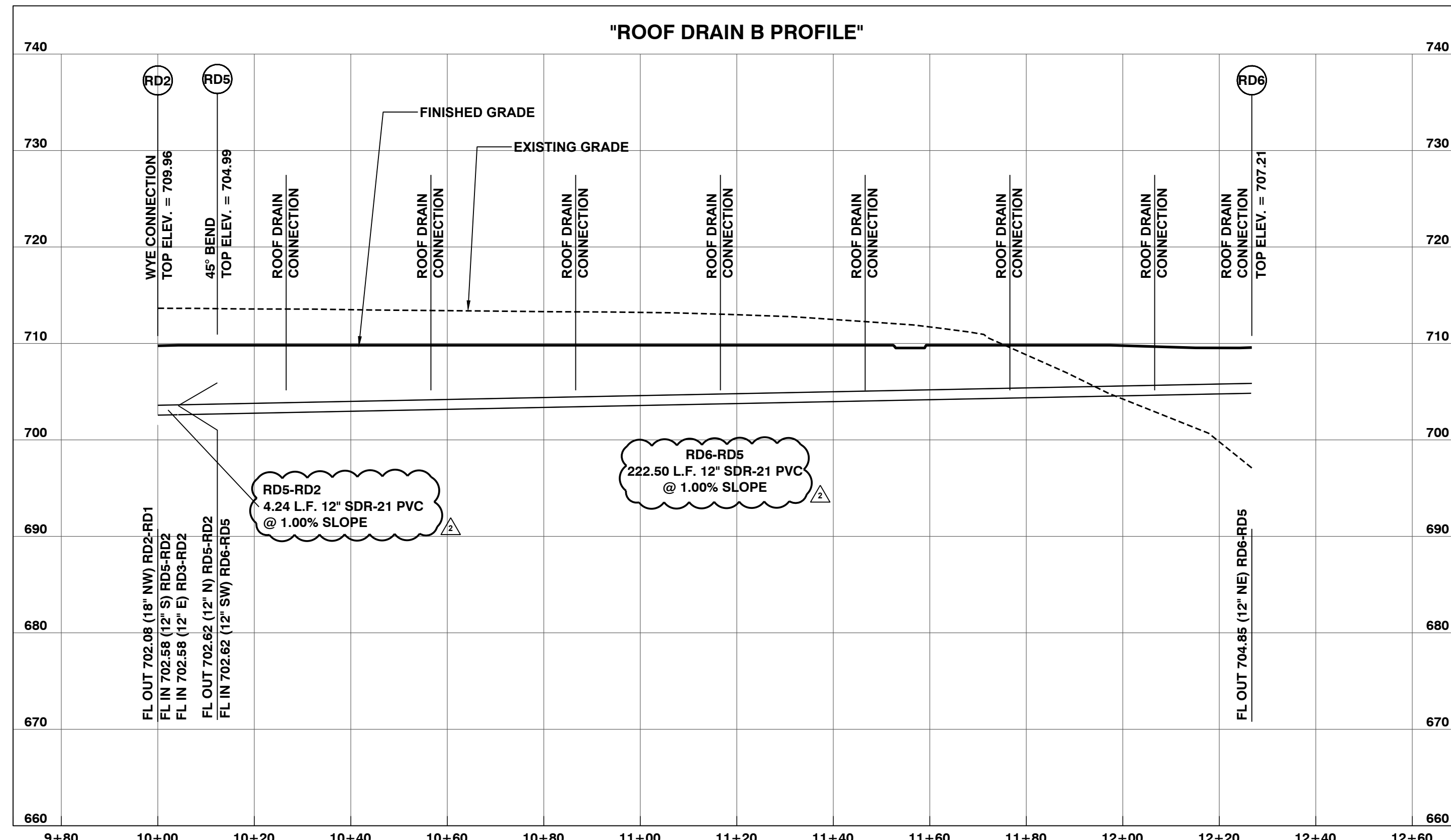
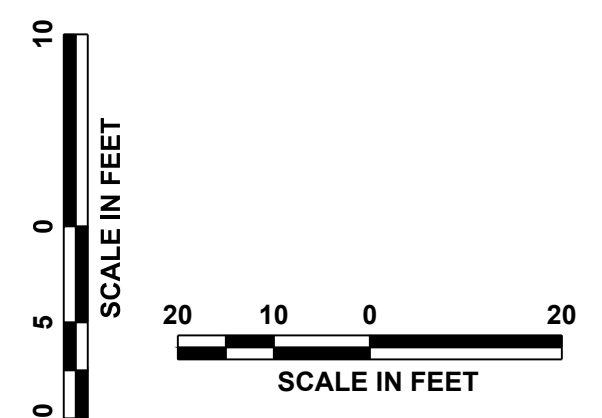
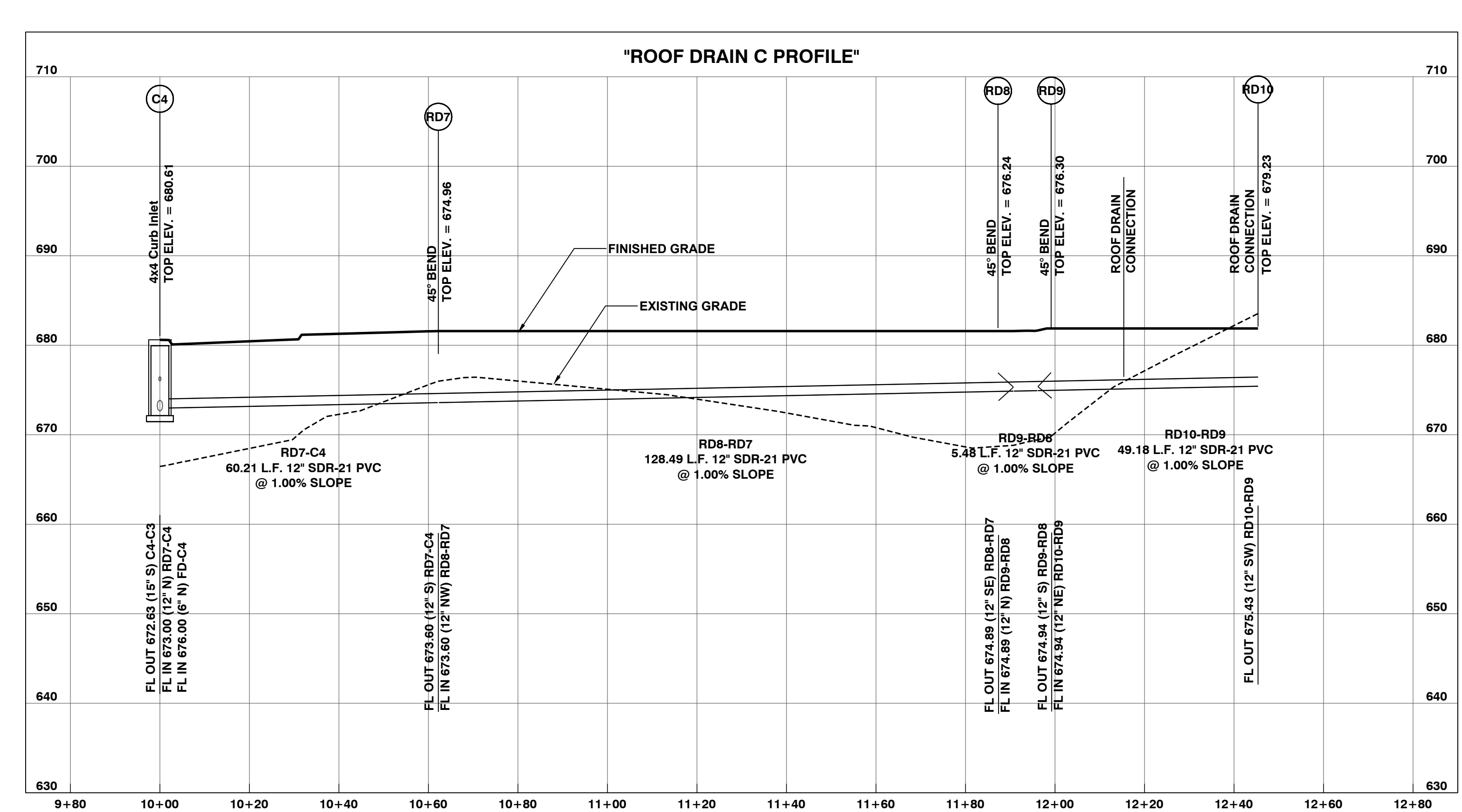
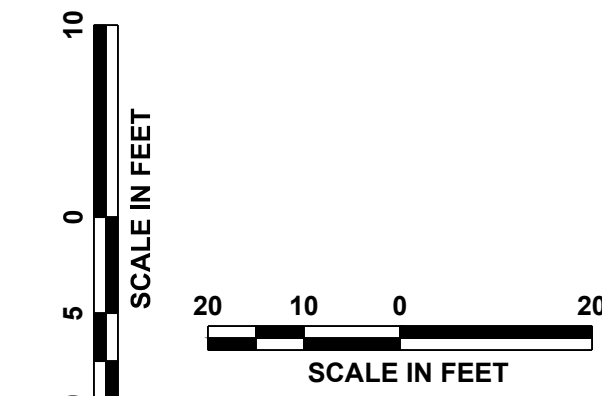
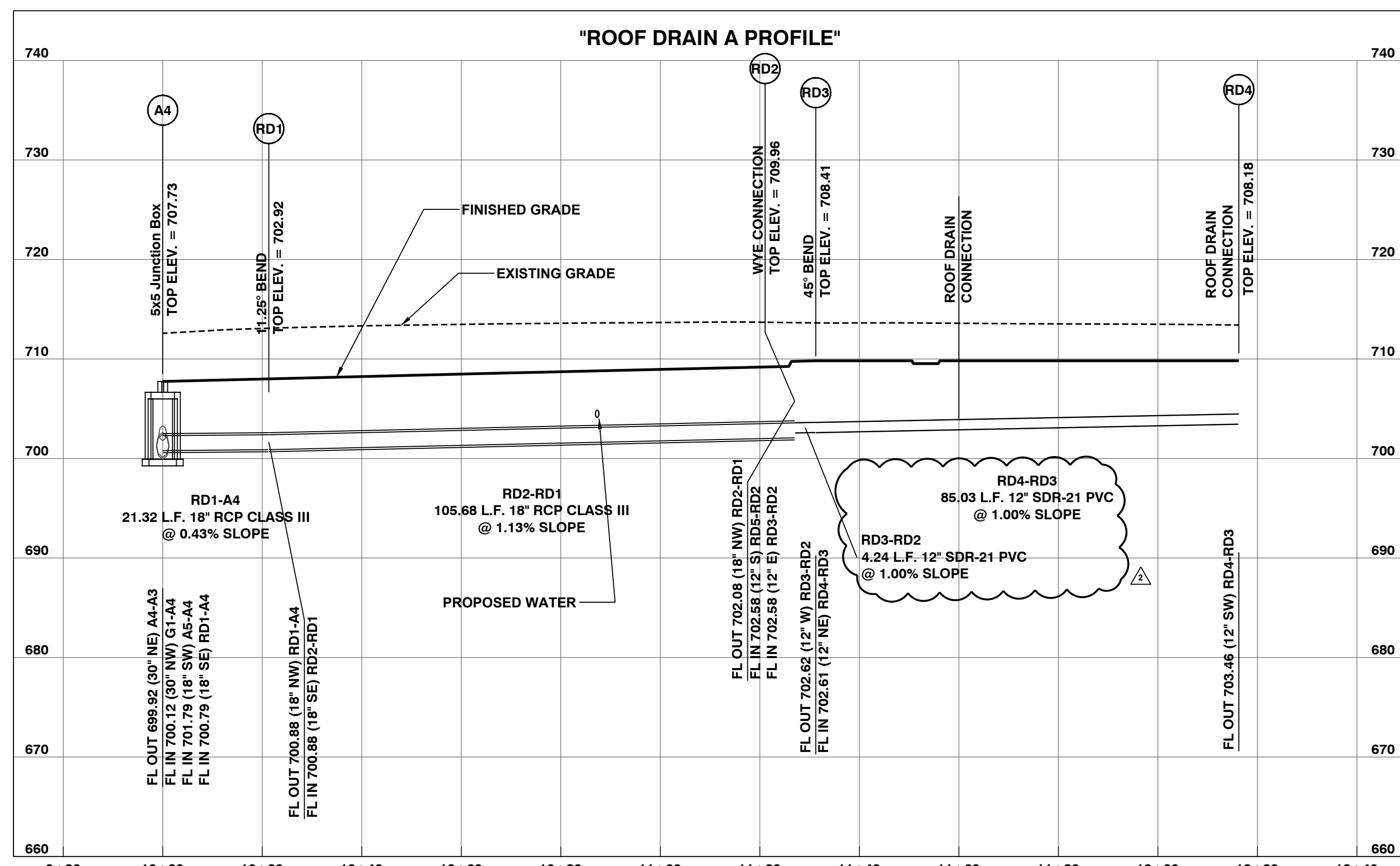
No.	Description	Date
2	ADDENDUM 02	7/29/2021

Issued For: BID DOCUMENTS
Issued Date: 07/13/2021
Project No.: 20-70064.00

Sheet Title:
**STORM SEWER
PROFILES - 2**

Original at 48" x 36". Do not scale contents of this drawing.
Sheet Number

C416



ROOF DRAIN NOTE:
INSTALL INSERTA TEE AT EACH ROOF
DRAIN CONNECTION TO NEW HDPP PIPE.

"HDPP": POLYPROPYLENE PIPE NOTE:
HIGH DENSITY POLYETHYLENE PIPE (HDPE) IS NOT EQUIVALENT TO POLYPROPYLENE PIPE. DUAL WALL AND TRIPLE WALL POLYPROPYLENE STORM SEWER PIPE. DUAL WALL PIPE AND FITTINGS 12 INCH THROUGH 24 INCH DIAMETER SHALL CONFORM TO ASTM F2736 AND TRIPLE WALL PIPE 30 INCH THROUGH 60 INCH SHALL CONFORM TO ASTM F2764, EXCEPT AS OTHERWISE SPECIFIED HEREIN. DUAL WALL POLYPROPYLENE PIPE SHALL HAVE A SMOOTH INTERIOR AND ANNULAR EXTERIOR CORRUGATIONS. TRIPLE WALL POLYPROPYLENE PIPE SHALL HAVE A SMOOTH INTERIOR AND EXTERIOR WITH ANNULAR INNER CORRUGATIONS. PIPE SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PSI WHEN TESTED IN ACCORDANCE WITH ASTM D2412. PIPE SHALL BE JOINED WITH AN INTEGRAL BELL AND SPIGOT JOINT ON ALL SIZES. THE JOINTS SHALL BE WATERTIGHT IN ACCORDANCE WITH ASTM D3212. THE SPIGOT SHALL HAVE TWO GASKETS MEETING THE REQUIREMENTS OF ASTM F477. THE GASKETS SHALL BE INSTALLED BY THE PIPE MANUFACTURER AND SHALL BE COVERED WITH A REMOVABLE, PROTECTIVE WRAP TO ENSURE THE GASKETS ARE FREE FROM DEBRIS. A JOINT LUBRICANT SHALL BE USED ON THE GASKET AND PIPE BELL DURING ASSEMBLY. PIPE SHALL HAVE A REINFORCED BELL WITH A POLYMER COMPOSITE BAND INSTALLED BY THE MANUFACTURER. PIPE MATERIALS SHALL MEET OR EXCEED APWA 2500 STANDARDS.



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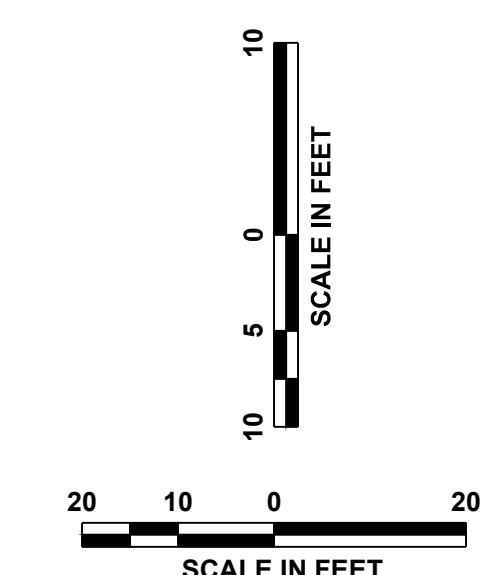
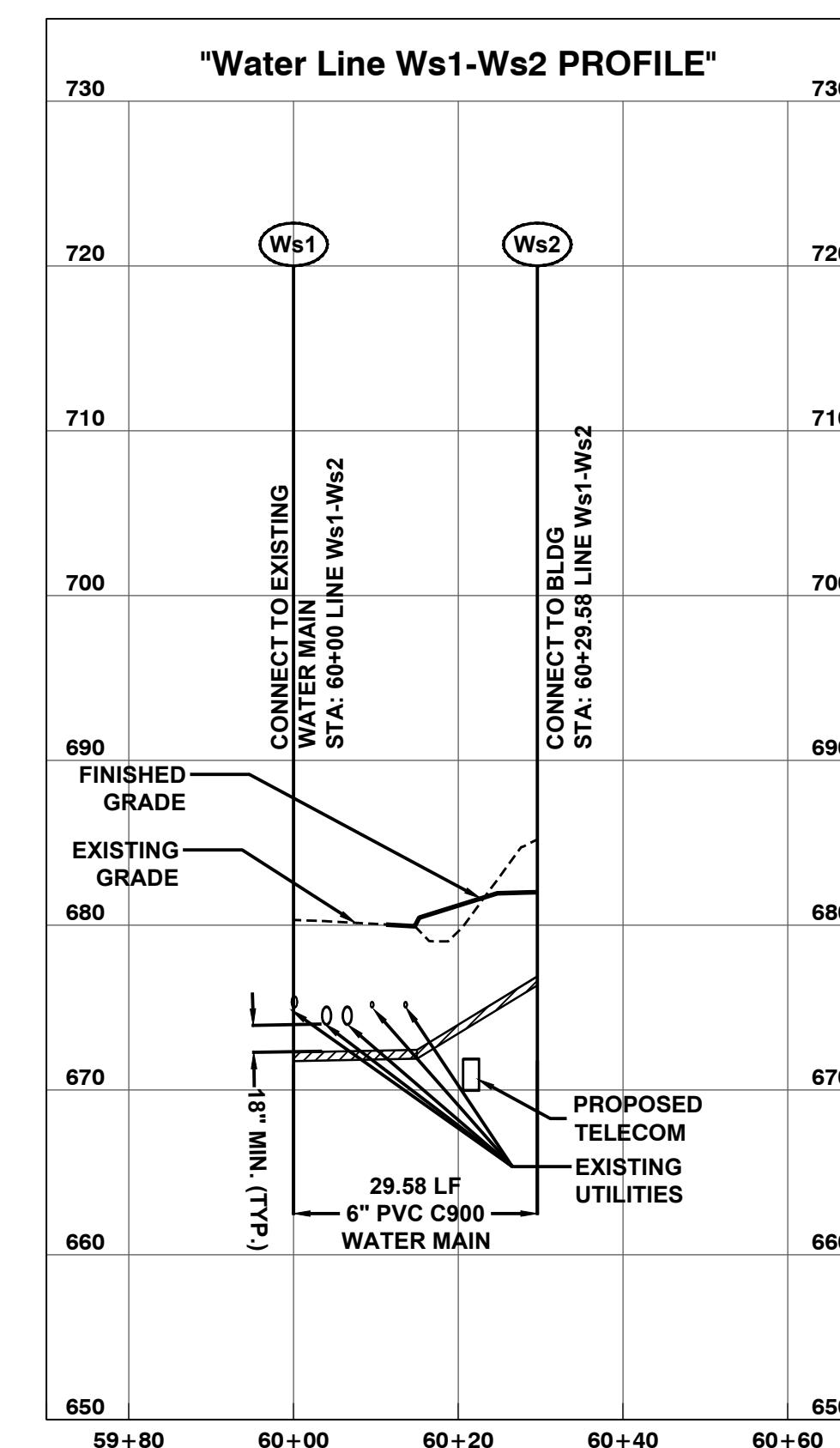
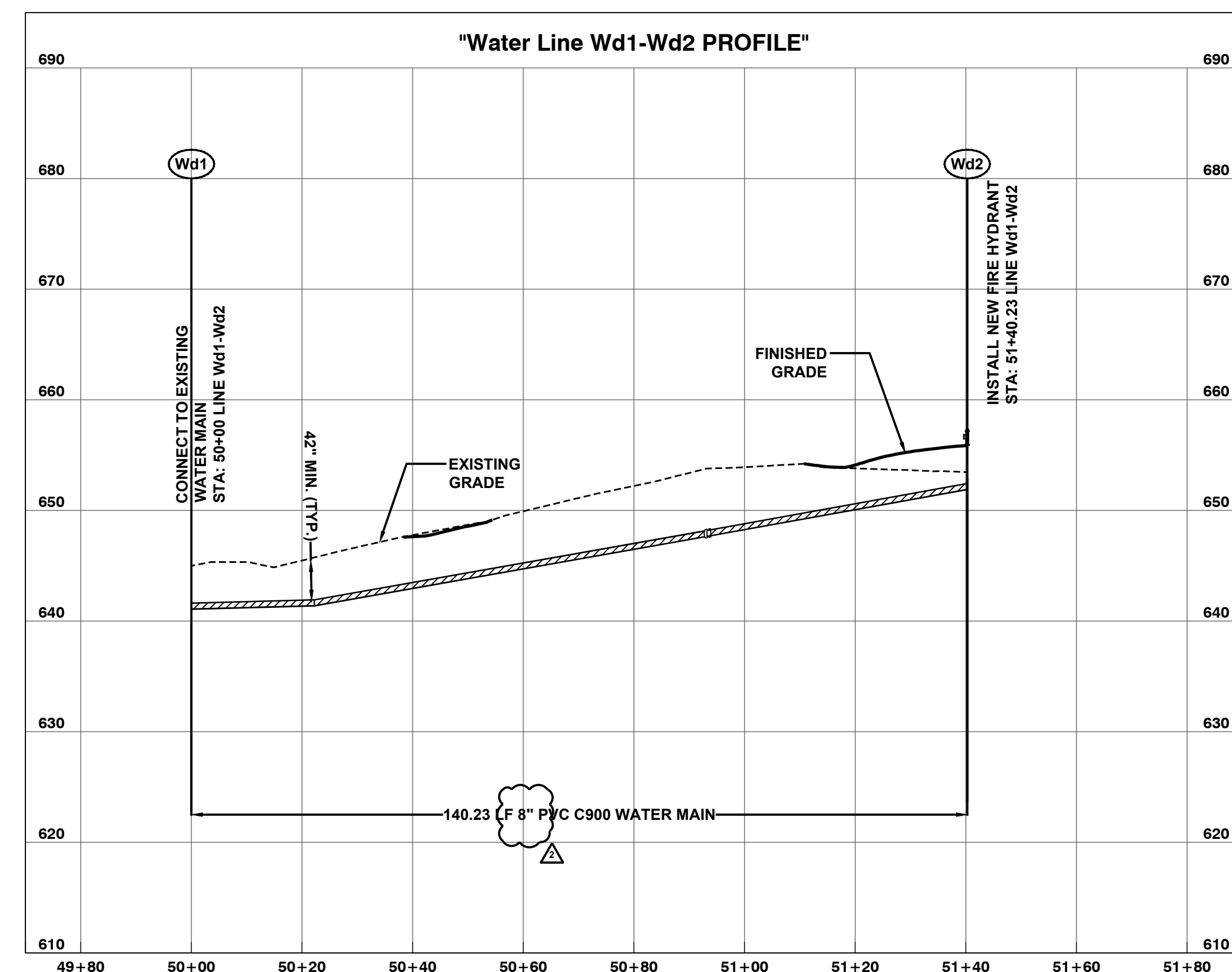
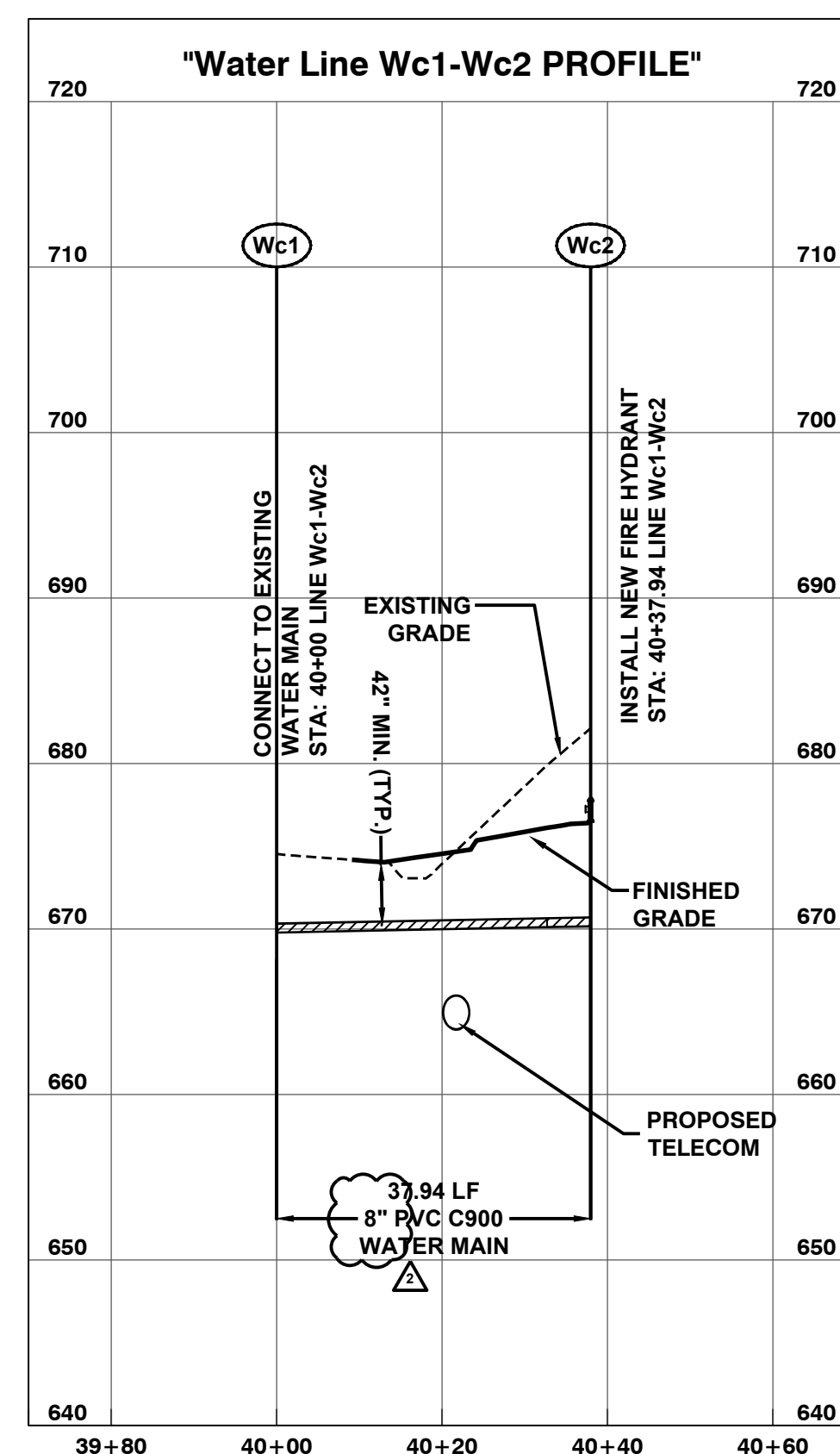
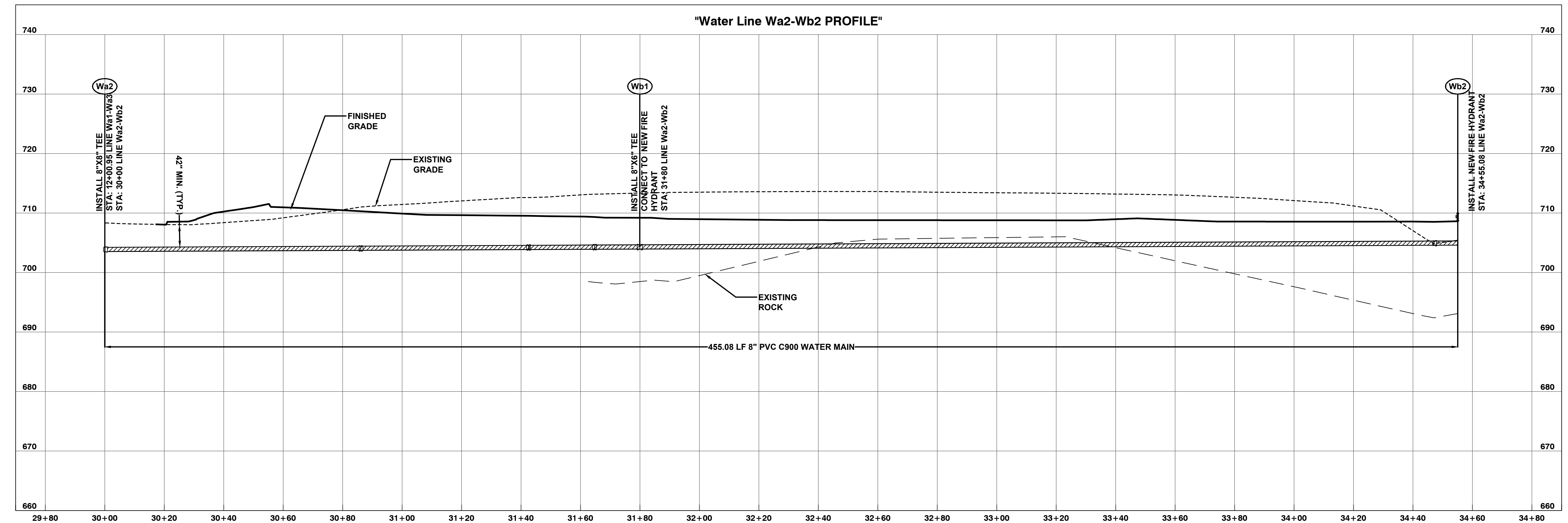
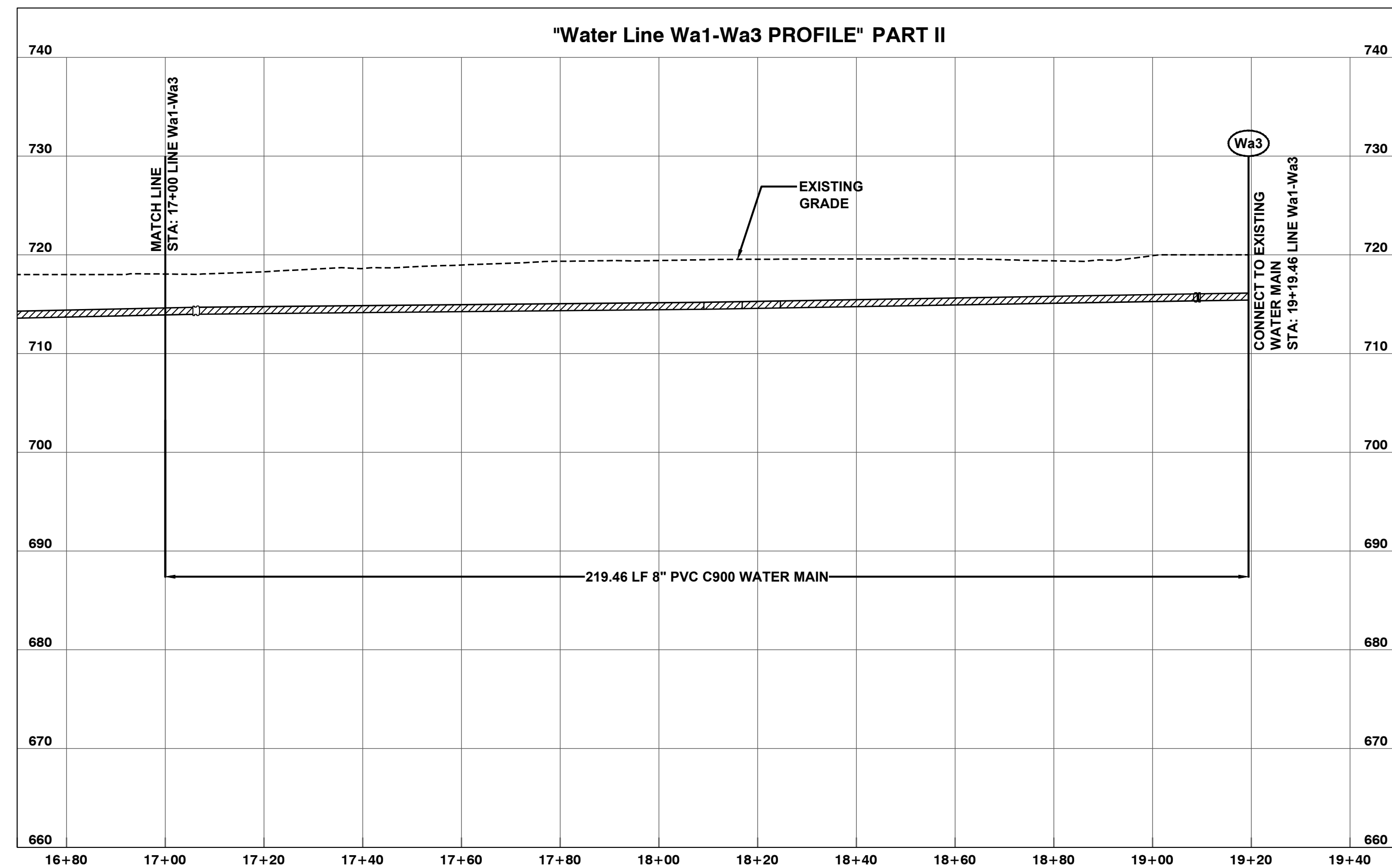
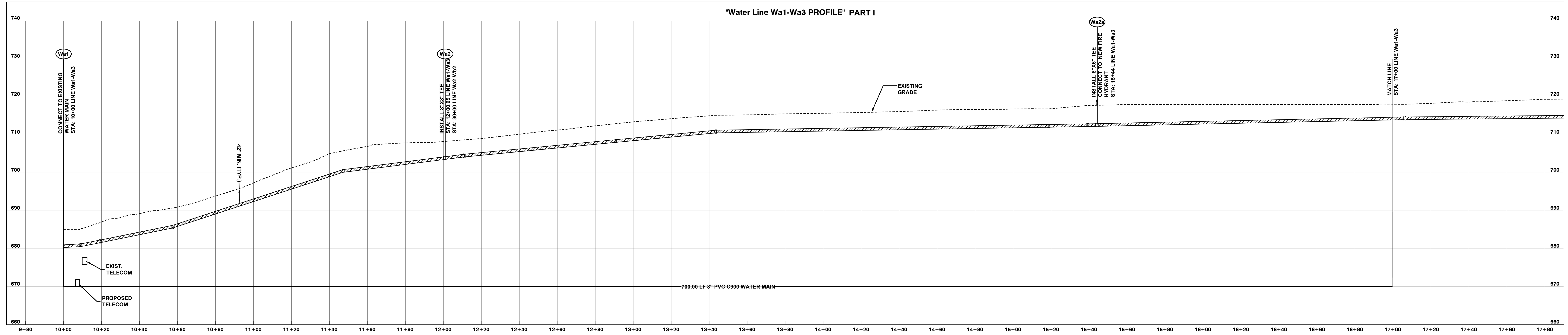
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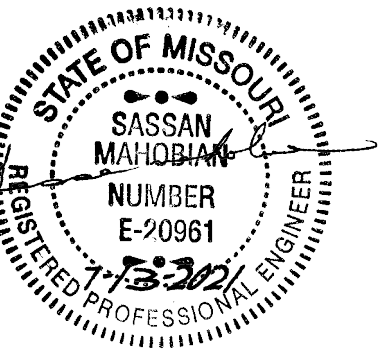
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No.	Description	Date
2	ADDENDUM 02	7/29/2021

Issued For: BID DOCUMENTS
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Project No: 20.70064.00

Sheet Title
**WATER MAIN
PROFILES - 1**

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Sheet Number

C431



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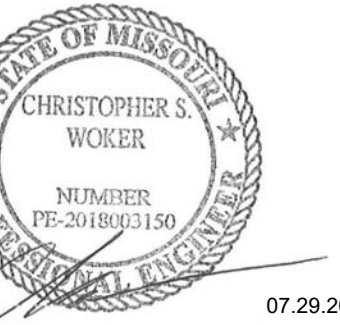
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Professional Seals



07.29.2021

No.	Description	Date
1	Addendum 01	07/29/2021
2	Addendum 02	07/29/2021

Issued For: BID DOCUMENTS
Issued Date: 07.13.2021
Project No.: 20-70064-00
Sheet Title:

FIRE ALARM LEGEND &
DETAILS

Original is 48" x 36". Do not scale contents of this drawing.
Sheet Number

FA001

FIRE ALARM LEGEND

- F** MANUAL PULL STATION
- S** SPEAKER ONLY (WALL MOUNTED)
- S** SPEAKER ONLY (CEILING MOUNTED)
- S** SPEAKER / CLEAR STROBE (WALL MOUNTED)
- S** SPEAKER / CLEAR STROBE (CEILING MOUNTED)
- S** CLEAR STROBE ONLY (WALL MOUNTED)
- S** CLEAR STROBE ONLY (CEILING MOUNTED)
- ?** SMOKE DETECTOR
- ?** DUCT SMOKE DETECTOR
- !** HEAT DETECTOR
- ?** DOOR HOLD-OPEN DEVICE
- FACP** FIRE ALARM CONTROL PANEL
- AMP** FIRE ALARM AMPLIFIER PANEL
- ANN** REMOTE ANNUCIATOR PANEL
- NAC** FIRE ALARM SUB-PANEL
- WFS** SPRINKLER WATER FLOW SWITCH
- PIV** POST INDICATOR VALVE TAMPER SWITCH
- TS** VALVE TAMPER SWITCH
- BFP** BACKFLOW PREVENTER
- WP** INDICATES WEATHERPROOF DEVICE
- WG** INDICATES DEVICE WITH WIRE GUARD (OR OTHER PROTECTIVE COVER)
- ?** WEATHERPROOF EXTERIOR WATERFLOW BELL. COORDINATE WITH SPRINKLER CONTRACTOR FOR EXACT LOCATION

GENERAL NOTES

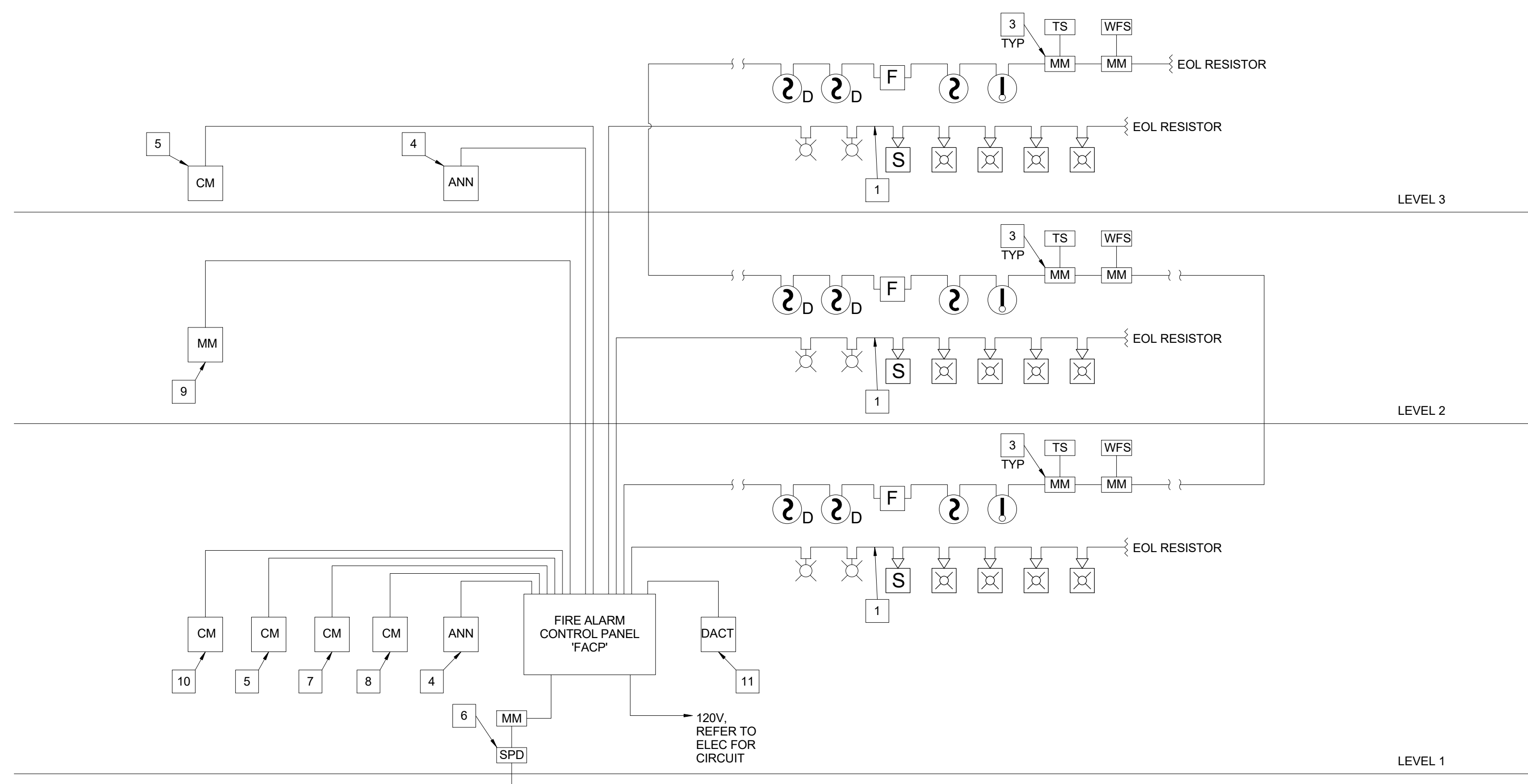
- DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT GENERAL SCOPE OF WORK. CONTRACTOR IS RESPONSIBLE TO REVIEW GENERAL CONSTRUCTION DRAWINGS, ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND ASSOCIATED SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF CONSTRUCTION.
- SCOPE OF WORK SHALL BE TO PROVIDE AND INSTALL A NEW VOICE-ANNOUNCING FIRE ALARM SYSTEM AS DESCRIBED WITHIN THE DOCUMENTS AND SPECIFICATIONS.
- SYSTEM SHALL BE DESIGNED AS PER MANUFACTURER RECOMMENDATIONS. FINAL DEVICE LOCATIONS AND QUANTITIES SHALL BE CONFIRMED AT THE JOB SITE BY THE CONTRACTOR.
- SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH IBC 2018, NFPA 72-2016, AND NFPA 70-2017.
- COMBINATION FIRE ALARM SPEAKER/STROBES ARE ALLOWED TO BE USED.
- COMBINATION SMOKE/HEAT DETECTORS ARE ALLOWED TO BE USED.
- SPRINKLER DEVICES SHALL BE FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR AND MONITORED BY THE FIRE ALARM.
- ALL HOLES THROUGH FIRE OR SMOKE RATED WALLS SHALL BE PATCHED OR PLUGGED WITH A LISTED FIRESTOP SYSTEM AS REQUIRED BY THE CONSTRUCTION MATERIALS ENCOUNTERED AND THE SIZE OF THE HOLE.
- COORDINATE FINAL LOCATION OF FIRE ALARM DEVICES WITH LIGHT SWITCHES, FIXTURES, ELECTRICAL OUTLETS, DIFFUSERS, RETURN AIR GRILLES, AND OTHER WALL OR CEILING MOUNTED EQUIPMENT OR DEVICES.
- ALL STROBES WITHIN VIEW OF EACH OTHER SHALL BE SYNCHRONIZED.
- DUCT SMOKE DETECTION SHALL BE PROVIDED IN THE SUPPLY AND RETURN DUCTS OF ALL AIR HANDLING EQUIPMENT GREATER THAN 2,000 CFM AND AT ALL SMOKE AND FIRE/SMOKE DAMPERS.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT SHALL BE WIRED WITH CLASS B CIRCUITING.
- PROVIDE SMOKE AND HEAT DETECTION WITHIN ELEVATOR SHAFT AND MACHINE ROOM PER ASME A17.1 AND NFPA 72.

GENERAL RISER NOTES

- ALL DEVICES NOT SHOWN. SEE FIRE ALARM FLOOR PLANS FOR LOCATIONS OF FIRE ALARM DEVICES.

KEYED RISER NOTES

- TYPICAL NOTIFICATION APPLIANCE CIRCUIT FOR FIRE ALARM.
- TYPICAL ADDRESSABLE DEVICE SLC CIRCUIT.
- ADDRESSABLE INTERFACE DEVICE FOR WATER FLOW SWITCHES AND TAMPER SWITCHES.
- REMOTE ANNUCIATOR PANEL.
- CONTROL MODULE FOR AIR HANDLER SHUTDOWN, TYP. EACH REQUIRED.
- SURGE PROTECTION DEVICE ON PIV WIRING.
- CONTROL MODULE FOR ELEVATOR RECALL.
- CONTROL MODULE TO DISCONNECT POWER IF ELEVATOR MACHINE ROOM OR HOISTWAY HEAT DETECTOR ACTIVATES. TYP. EA.
- MONITOR MODULE TO MONITOR WIRING INTEGRITY OF TWO-WAY ELEVATOR COMMUNICATION SYSTEM (COMM. SYSTEM BY OTHERS).
- CONTROL MODULE TO SILENCE PUBLIC ADDRESS, SIMULATED CROWD NOISE, ETC. TYP., EA.
- DIGITAL FIRE ALARM COMMUNICATOR (IF NOT INCLUDED WITHIN FACP)



SCHEMATIC FIRE ALARM RISER DIAGRAM

SYSTEM INPUTS	SYSTEM OUTPUTS																			
	BUILDING FACP & ANN				TRANSMIT SIGNAL TO CENTRAL MONITORING STATION				AUXILIARY FUNCTIONS				NOTIFICATION APPLIANCE SIGNAL							
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
11 FIRE SPRINKLER VALVE TAMPER SWITCH	X				X															
12 PIV TAMPER SWITCH/RECALL TO CIVIL FOR LOCATION	X				X															
13 KNIX BOX TAMPER SWITCH	X				X															
14 DUCT SMOKE DETECTOR	X				X															
15																				
16 INITIATING DEVICE CIRCUIT OPEN		X			X															
17 INITIATING DEVICE CIRCUIT SHORT		X			X															
18 INITIATING DEVICE CIRCUIT GROUND		X			X															
19 NOTIFICATION APPLIANCE CIRCUIT OPEN		X			X															
20 NOTIFICATION APPLIANCE CIRCUIT SHORT		X			X															
21 NOTIFICATION APPLIANCE CIRCUIT GROUND		X			X															
22 AC POWER FAILURE		X			X															
23 TEST MODE		X			X															
24 LOW BATTERY VOLTAGE		X			X															
25 DUCT SMOKE DETECTOR BYPASSED BY TOGGLE SWITCH		X			X															
26 ELEVATOR COMMUNICATION SYSTEM WIRING FAULT		X			X															
28																				

FIRE ALARM NOTIFICATION MATRIX

FIRE ALARM	Project Budget				Responsibility to Specify				Responsibility to Purchase				Responsibility to Install			
	Const.	Budget	FPE	MU	Design	MF	Vendor	Other	OC	MU	Vendor	Other	OC	MU	Vendor	Other
Fire Alarm System	X				X						X				X	
Fire Alarm Panels	X				X						X				X	
Fire Alarm Reporting	X				X						X				X	
Initiating Devices	X				X						X				X	
Notification Appliances	X				X						X				X	
Interface/Monitoring Devices	X				X						X				X	
Control/Receiver	X				X						X				X	
Wiring	X				X						X				X	
Designated Design	X				X						X				X	
Standard Drawings	X				X						X				X	
Submittal Package	X				X						X				X	

ROOFTOP UNIT SCHEDULE (DX COOLING, NATURAL GAS HEAT)

Table with columns: MARK, MANUFACTURER, MODEL, UNIT TYPE, SUPPLY FAN, EXHAUST/RELIEF FAN, COOLING, HEAT EXCHANGER, ELECTRICAL, WEIGHT (LBS), NOTES.

MODEL NUMBERS AND NOMINAL TONS LISTED SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: UNIT SHALL NOT COME WITH FACTORY CONTROLS AND SHALL BE CONTROLLED BY THE OWNERS BUILDING AUTOMATION AND CONTROLS SYSTEM.

FAN SCHEDULE

Table with columns: MARK, SERVICE, DESCRIPTION, MANUFACTURER, MOUNTING, MODEL, CFM, ESP, NOM HP, FAN RPM, DRIVE, VFD, ELECTRICAL, STARTER, WEIGHT (LBS), NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: PROVIDE WITH SPRING VIBRATION ISOLATION AND ALL-THREAD HANGING RODS.

GRILLE, REGISTER AND DIFFUSER SCHEDULE

Table with columns: MARK, MANUFACTURER, SERVICE, MODEL, CONSTRUCTION, FACE TYPE, MOUNTING LOCATION, BORDER TYPE, FACE SIZE (IN), MAX NC, MAX PRESS DROP (IN), NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: 4-WAY THROW PATTERN UNLESS OTHERWISE INDICATED BY FLOW ARROWS ON DRAWINGS.

LOUVER SCHEDULE

Table with columns: MARK, AREA SERVED, SERVICE, MANUFACTURER, MODEL, WIDTH (IN), LENGTH (IN), CFM, MIN FREE AREA (SQ FT), MAX VEL (FPM), MAX APP (IN W.C.), NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: PROVIDE 1/2" MESH ALUMINUM BIRD SCREEN.

WALL-MOUNTED MINI-SPLIT SCHEDULE

Table with columns: MARK, AREA SERVED, MANUFACTURER, MODEL, REFR TYPE, CFM, MIN OUT (MBH), NOM (MBH), THROW (FT), VPH, DISC, TYPE, NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: CONTRACTOR SHALL VERIFY WITH EQUIPMENT SUPPLIER EXACT ROUTING AND SIZE OF INSULATED REFRIGERANT PIPING.

UNIT HEATER SCHEDULE (ELECTRIC)

Table with columns: MARK, AREA SERVED, MANUFACTURER, MODEL, MIN OUT (MBH), NOM (MBH), THROW (FT), VPH, DISC, TYPE, NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: MOUNT 9 FEET ABOVE FINISHED FLOOR WITHOUT OBSTRUCTING AIRFLOW.

VARIABLE AIR VOLUME TERMINAL SCHEDULE

Table with columns: MARK, MANUFACTURER, MODEL, INLET SIZE (IN), PRIMARY MIN CFM, MIN FROM CFM, RADIATED, DISCHARGE, NOTES.

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER... NOTES: DIVISION 26 CONTRACTOR SHALL PROVIDE CONTROL VOLTAGE TRANSFORMER.



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Prepared For: THE UNIVERSITY OF MISSOURI

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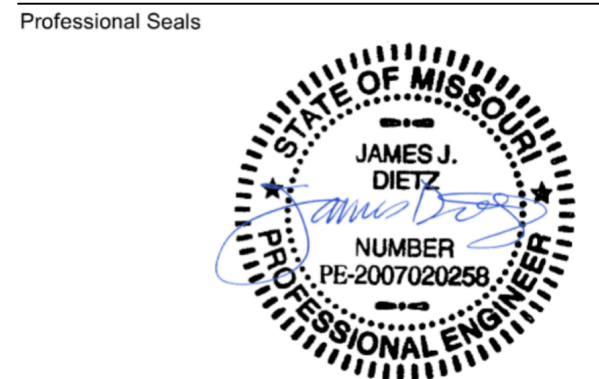
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2000451 MO CORPORATE NO. E-5600 EXPIRES 12/31/2021



JAMES J. DIETZ LICENSE # PE-2007020258 07/29/2021

Table with columns: No., Date, Description, Date.

Issued For: BID DOCUMENTS Issued Date: 07.13.2021 Project No: 20.70064.00 Sheet No:

MECHANICAL SCHEDULES



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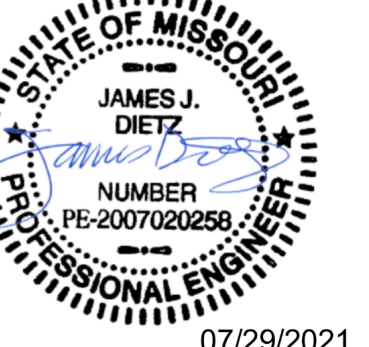
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No. Description Date
1 Addendum 02 07/29/2021

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Project No: 20.70064.00
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PLUMBING WASTE &
VENT - ENLARGED
PLANS

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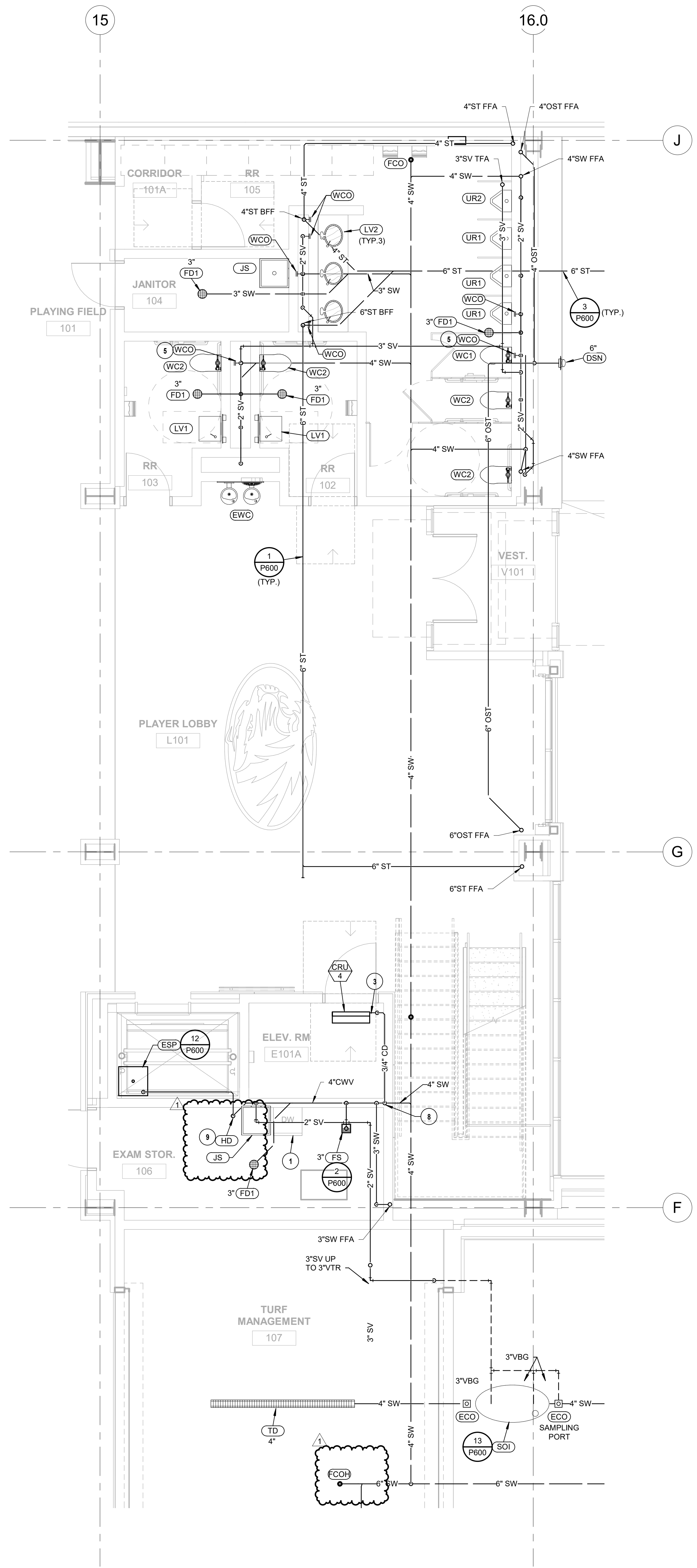
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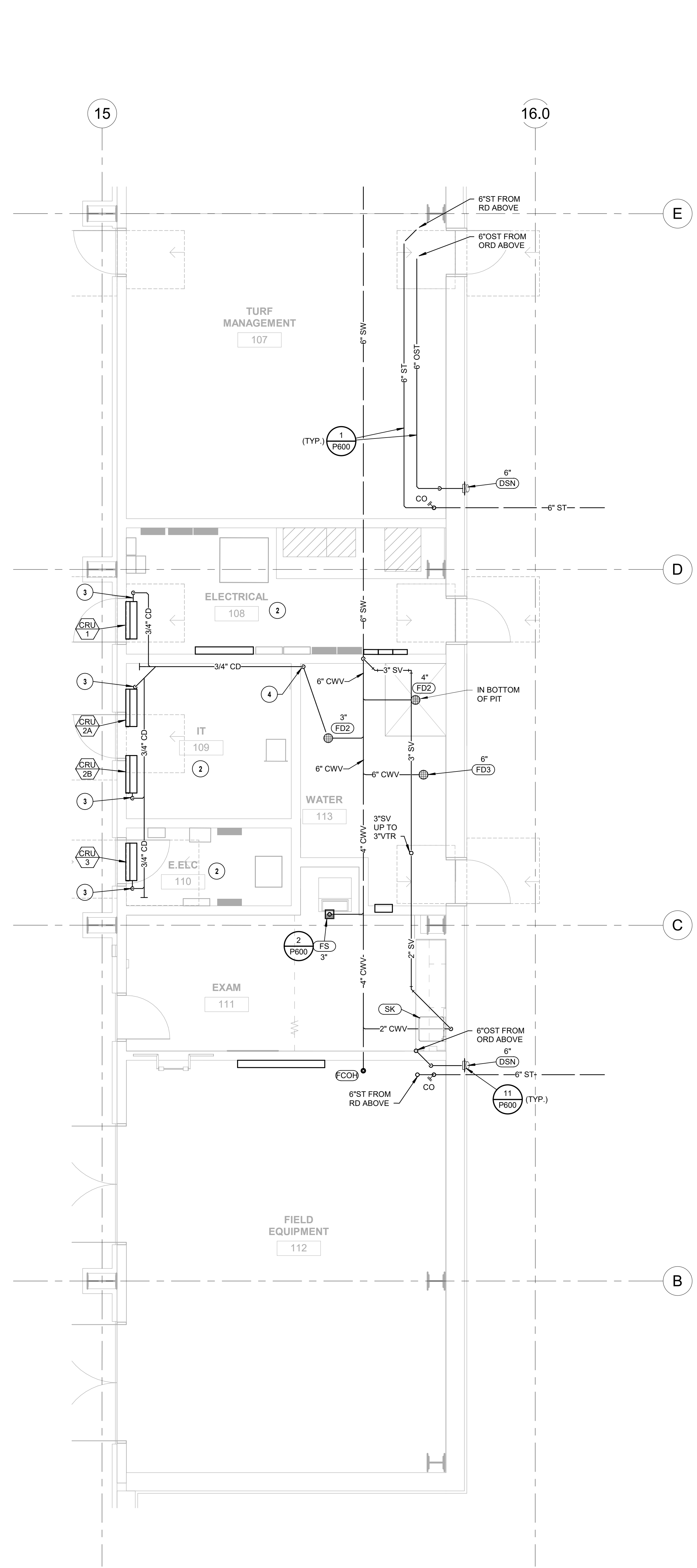
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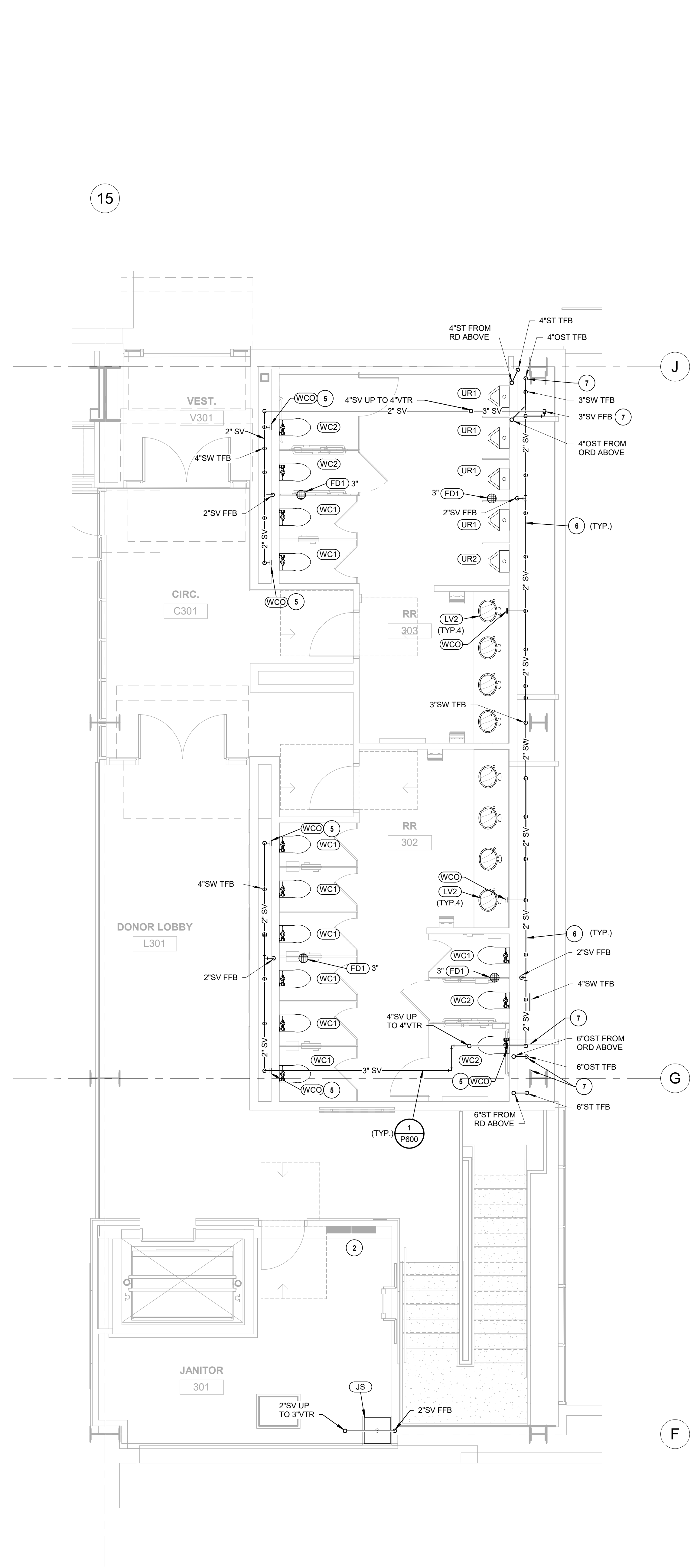
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1 ENLARGED WASTE & VENT LEVEL 1 PLAN - WEST
1/4" = 1'-0"



2 ENLARGED WASTE & VENT LEVEL 1 PLAN - EAST
1/4" = 1'-0"



3 ENLARGED WASTE & VENT LEVEL 3 PLAN - WEST
1/4" = 1'-0"

PLUMBING PLAN NOTES:

- ROUTE WASTE FROM DISHWASHER TO DISCHARGE OVER FLOOR SINK WITH AIR GAP.
- DO NOT INSTALL PLUMBING PIPING OVER ELECTRICAL PANELS OR EQUIPMENT.
- ROUTE CONDENSATE DRAIN LINE FROM INTEGRAL CONDENSATE PUMP UP ABOVE CRU, THEN SLOPE DOWN @ 2% TO OUTLET. MAKE CONNECTIONS TO MECHANICAL UNIT PER MANUFACTURER'S REQUIREMENTS. DO NOT ROUTE OVER IT RACKS OR ELECTRICAL EQUIPMENT.
- ROUTE 3/4" CONDENSATE DRAIN PIPING EXPOSED DOWN IN CORNER OF ROOM TO AFF AND DISCHARGE OVER RIM OF DRAIN WITH AIR GAP AS SHOWN. SUPPORT PIPES ON FLOOR PER SPECIFICATIONS.
- LOCATE WALL CLEANOUT (WCO) TO AVOID CONFLICT WITH GRAB BAR AND OTHER ACCESSORIES ABOVE THE WATER CLOSET.
- ROUTE PIPING IN CHASE BELOW CLEARSTORY REFER TO ARCHITECTURAL DRAWINGS.
- ROUTE VERTICAL PIPING AT CLEARSTORY AS CLOSE TO COLUMN CENTERLINE AS POSSIBLE TO MINIMIZE VISIBILITY. COORDINATE WITH ARCHITECT.
- ROUTE 3/4" CONDENSATE DRAIN PIPING DOWN IN WALL STUB OUT AFF AND DISCHARGE TO FLOOR SINK WITH AIR GAP.
- ROUTE 2" SPO TO DISCHARGE OVER HUB DRAIN WITH AIR GAP.



Project
CP210981 New Indoor
Practice Facility

Prepared For
THE UNIVERSITY OF
MISSOURI

1200 S. Providence Rd. Columbia, MO
65201



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Project No.: 20.70064.00
Sheet No.:

PLUMBING SCHEDULES &
GAS RISER DIAGRAM

Original is A3 - 36. Do not scale contents of this drawing.
Sheet Number

P500

WATER CALCULATIONS

PROJECT:	Project Tiger Indoor Practice Facility				
LOCATION:	Columbia, MO				
CLIENT:	HOK				
JOB NUMBER:	20000451				
DATE:	2/17/2021				
CALCULATED BY:	BNG				
WATER PRESSURE: (STREET MAIN)	HIGH: LOW:	90 80	DEVELOPED LENGTH: EQUIVALENT LENGTH: CALCULATED FLOW:	400 800 118	FT FT GPM
SYSTEM COMPONENTS					
BUILDING PIPE MATERIAL	Ductile Iron				
BACKFLOW PREVENTION DEVICE	Watts 907-NRS				
TOTAL PRESSURE LOSS CALCULATIONS					
A. MINIMUM PRESSURE AT CITY MAIN	=	90	PSI		
B. SERVICE METER LOSS	=	12	PSI		
C. BACKFLOW PREVENTER	=	9	PSI		
D. SOFTENER / MISC. EQUIPMENT	=	0	PSI		
E. ELEVATION CHANGE	=	20 FT x 0.433	= 8.66	PSI	
F. SUB-METER	=	0	PSI		
G. SAFETY FACTOR	=	5.00	PSI		
H. RESIDUAL PRESSURE	=	35.00	PSI		
I. TOTAL PRESSURE LOSS	=	69.66	PSI		
J. AVAILABLE PRESSURE FOR FRICTION LOSS	=	20.34	PSI		
K. TOLERABLE FRICTION PRESSURE LOSS	=	4.07	PSI/100FT		

GAS PRESSURE REGULATOR SCHEDULE FOR 2 PSI SYSTEMS

MARK	MANUFACTURER	MODEL	VALVE TYPE	VALVE BODY	MAX. FLOW RATE (GPM)	INLET PRESSURE (PSI)	OUTLET PRESSURE (INCHES WATER COLUMN)	RTU3	NOTES
GRP1	PIETRO-FIORENTINI	31052	C	3/4"	605	1	7"		A.H
GRP2	PIETRO-FIORENTINI	31153	C	1-1/4"	3755	1	7"	RTU1 AND RTU2	A.H

NOTES:
A. C = SELF-CONTAINED DIRECT ACTION DIAPHRAGM TYPE WITH INTERNAL VEIL LIMITER
B. BR00P = 1" WATER COLUMN MAXIMUM
C. 65# ALUMINUM BODY, SCREWED CONNECTIONS AND OVERPRESSURE PROTECTION TO 2 PSI
D. MAXIMUM FLOW RATE SCHEDULED. MATCH BODY SIZE AND MAXIMUM FLOW RATE TO EQUIPMENT FLOW RATE. REFER TO EQUIPMENT SHOP DRAWINGS FOR EXACT LOADS.
E. LISTED TO MEET ANSI Z21.80/CSA 5.2 WITH CALISTING STAMP ON REGULATOR BODY
F. GAS PRESSURE REGULATOR INLET PRESSURE = OPERATING PRESSURE + DESIGN FRICTION LOSS
G. 2 PSI MAXIMUM INLET PRESSURE AND 1 PSI MINIMUM INLET PRESSURE
H. REMOVE BRASS VENT LIMITER FOR OUTDOOR INSTALLATION

INSTANTANEOUS ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL#	AREA SERVED	ELECTRICAL DATA				TEMPERATURE RECOVERY (GPM)	FLOW SWITCH FLOW RATE	NOTES	
			VOLTS	PHASE	KW	AMPS				
1WH	EEMAX # SPEX48T	EXAM ROOM	208	1	3.6	17.0	49	0.5 GPM	0.2 GPM	A, C, D, E
1W2	EEMAX # XTP02048D	DISHMACHINE	480	3	20.0	72.0	68	2 GPM	0.5 GPM	A, B, D, E

NOTES:
A. THERMOSTATIC CONTROLLED - SET AT 110°F.
B. THERMOSTATIC CONTROLLED - SET AT 120°F.
C. UNIT IS 240V WITH SCHEDULED INPUT AND CAPACITY REDUCED BY 25% TO OPERATE @ 208V.
D. COMPLIANT UNDER CSA - (C22 No. 64 No. 88.
E. DIGITAL TEMPERATURE DISPLAY.

ELEVATOR SUMP PUMP SCHEDULE

MARK	MANUFACTURER/ MODEL#	LOCATION	GPM	HEAD (FT)	DISCHARGE SIZE (IN.)	VOLTS	PH	HP	NOTES
ESP	WEL SERRES 1411-098	ELEVATOR PIT	50	21	2"	120	1	1/2	A-D

NOTES:
A. SYSTEM INCLUDES WEEL PUMP, LIQUID SMART SWITCH WITH PIGGYBACK PLUG AND HIGH LIQUID LEVEL SMART ALARM
B. PROVIDE 2" DISCHARGE PIPING, SHUTOFF VALVE AND ZIEGLER 890-030 FLAPPER NON-CLOG CHECK VALVE
C. REFER TO DETAIL FOR MORE INSTALLATION INFORMATION
D. INSTALL IN 24" SQUARE, 2' DEEP SUMP PIT LOCATED IN ELEVATOR PIT. SEE ARCHITECTURAL DRAWINGS.

PLUMBING FIXTURE CONNECTION SCHEDULE

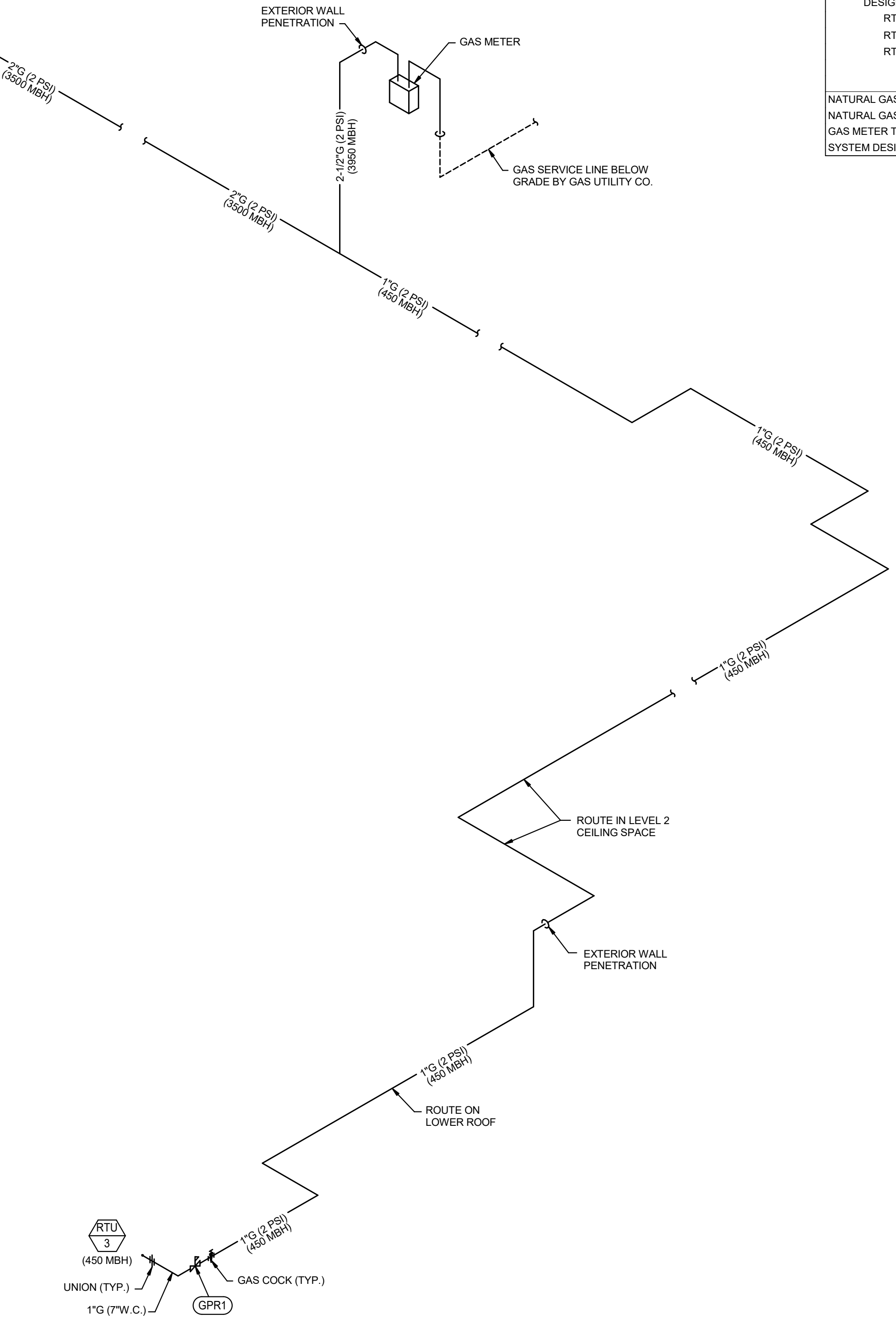
FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	NOTES
WATER CLOSET (PV)	1-1/4"	-	-	2"	A, B
URINAL	3/4"	-	-	2"	A, C
LAVATORY	1/2"	1/2"	2"	2"	A
DRINKING FOUNTAIN	1/2"	-	-	2"	A
JANITORS SINK	1/2"	1/2"	3"	2"	A
FLOOR DRAIN	-	-	-	2"	A
1" FLOOR DRAIN	-	-	-	2"	A
SINK	1/2"	1/2"	2"	2"	A

NOTES:
A. PIPE SIZES SHOWN ARE MINIMUM AND ARE FOR INDIVIDUAL SERVICE PIPE SIZES
B. PROVIDE 1-1/4" CW TO FLUSH VALVE, REDUCE TO 1" PRIOR TO CONNECTING TO FLUSH VALVE INLET AT INSIDE OF WALL
C. PROVIDE 1" CW TO FLUSH VALVE, REDUCE TO 3/4" PRIOR TO CONNECTING TO FLUSH VALVE INLET AT INSIDE OF WALL.

TOTAL CONNECTED NATURAL GAS LOAD

MECHANICAL EQUIPMENT	DESCRIPTION	CFH (EACH)
RTU-1	ROOFTOP UNIT (GROUND MOUNTED)	1150
RTU-2	ROOFTOP UNIT (GROUND MOUNTED)	1750
RTU-3	ROOFTOP UNIT	450
	TOTAL =	3950

NATURAL GAS SYSTEM OPERATING PRESSURE:
NATURAL GAS SYSTEM SIZED WITH TOTAL DEVELOPED LENGTH FROM GAS METER TO MOST REMOTE PIECE OF EQUIPMENT: 540 FEET
SYSTEM DESIGN PRESSURE DROP: 1 PSI



2 PSI GAS PIPE SIZING CHART

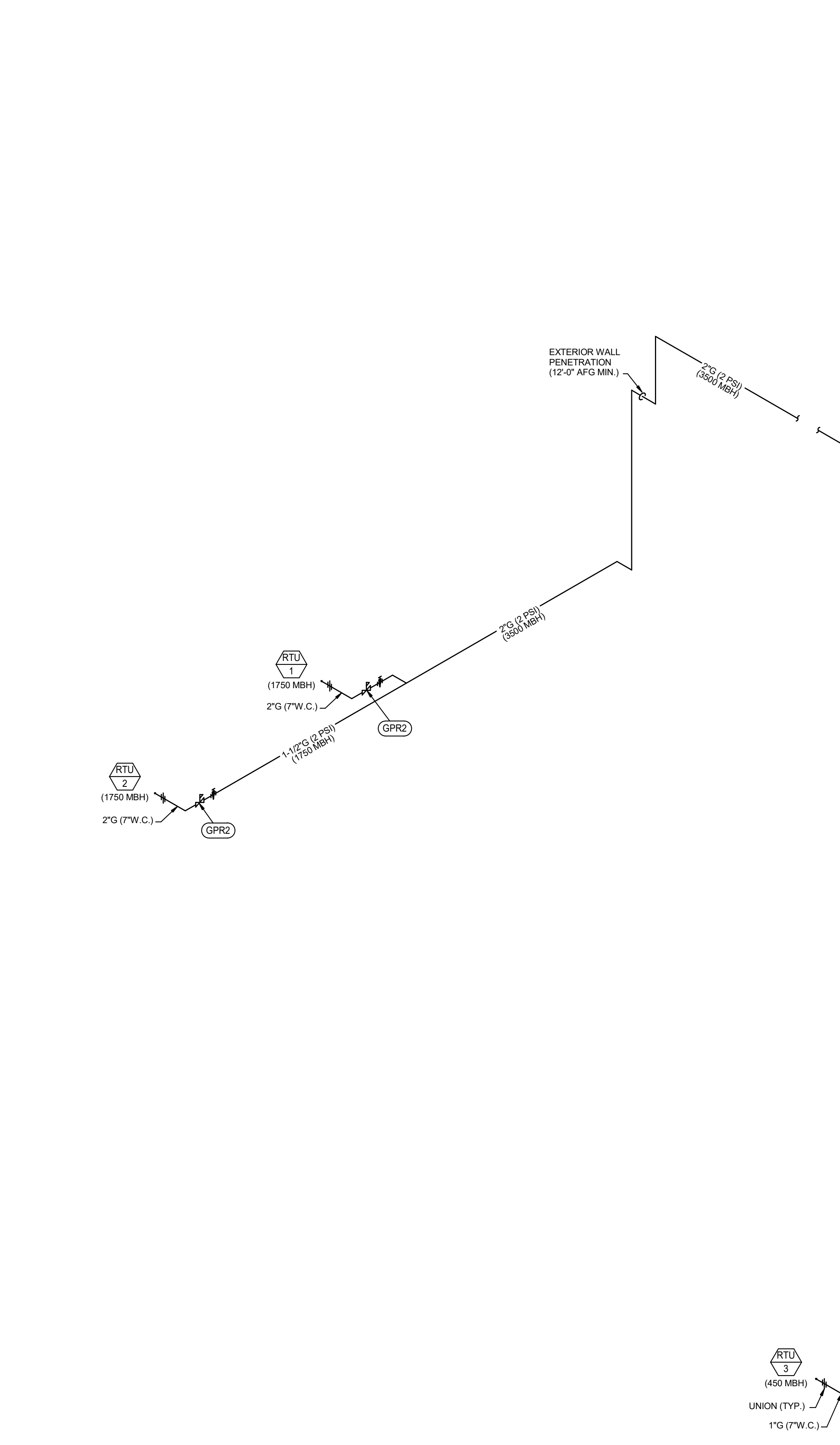
PIPE SIZE	LOAD (CFH)
1/2"	185
3/4"	368
1"	730
1-1/4"	1,499
1-1/2"	2,347
2"	4,327
2-1/2"	6,896
3"	12,191
4"	24,866
5"	44,998
6"	72,943
8"	149,665
10"	271,832
12"	430,365

FOR SCHEDULE 40 STEEL PIPE
SPECIFIC GRAVITY OF GAS = 0.60
UPSTREAM PRESSURE (PSI) = 2
DOWNSTREAM PRESSURE (PSI) = 1
PRESSURE LOSS (PSI) = 1
TOTAL DEVELOPED LENGTH (FEET) = 540
BASED ON NFPA 54 EQUATION #2

WATER PIPE SIZING CHART (IPC) BRASS TUBE

PIPE SIZE	COLD WATER @ 4000 PSI / 102' FLOW				HOT WATER @ 4.0 PSI / 102' FLOW			
	INTERNAL DIAMETER	FLUSH VALVE SFU	VELOCITY FEET/SEC	FLOW GPM	FLUSH TANK SFU	VELOCITY FEET/SEC	FLOW GPM	FLOW GPM
1/2"	0.545	0.7	NA	2.1	-	-	-	-
3/4"	0.785	2.3	NA	3.7	-	-	-	-
1"	1.025	6.4	NA	4.4	-	-	-	-
1-1/4"	1.265	19.6	6.8	5.0	-	-	-	-
1-1/2"	1.505	55.6	14.6	5.5	30.7	45	5	27.7
2"	1.985	193.1	27.8	6.6	63.6	120.9	5	48.2
2-1/2"	2.465	439.3	32.3	7.6	112.4	248.8	5	74.9
3"	2.945	749.1	69.3	8.0	160.8	406	5	106.1
4"	3.905	1764.4	176.4	8.0	298.6	869.4	5	186.6
6"	5.845	5269.9	526.9	8.0	690.0	2059.7	5	418.1
8"	7.725	10343.1	1034.3	8.0	1166.6	3603.3	5	614.1

SIZES WITH HAZEN WILLIAMS CONSTANT "C" = 135
UTILIZE COLD WATER SIZING CHART



GAS RISER DIAGRAM
NO SCALE

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Sheet Number

P500

AUDIO-VIDEO BOX SCHEDULE - TYPICALS											
BOX FUNCTION		BOX PROPERTIES				BOX ACCESSORIES			CONDUIT REQUIREMENTS		NOTES
ID	DESCRIPTION	TYPE	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS	SIZE	ROUTE	
C1	ASSORTED CONNECTION WALL BOX	2-GANG	RACO	260	46"	FLUSH	BLANK	NONE	1.5"	IT ROOM	
T6	TELEVISION CONNECTION BOX	FSR PWB-100	FSR	PWB-100	REFER TO FLAT PANEL DISPLAY SCHEDULE	FLUSH	BLANK	NONE	1.5"	IT ROOM	
V1	ASSORTED CONNECTION WALL BOX	2-GANG	RACO	260	18"	FLUSH	BLANK	NONE	1.5"	IT ROOM	

AUDIO-VIDEO BOX SCHEDULE										
BOX FUNCTION		BOX PROPERTIES				BOX ACCESSORIES			NOTES	
ID	DESCRIPTION	TYPE	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS		
A:101.01	ASSORTED CONNECTION WALL BOX	WALL BOX 12X16X06	FSR	WB-X1-XLR	16"	FLUSH	PROVIDE	PROVIDE		
A:101.02	ASSORTED CONNECTION WALL BOX	WALL BOX 12X16X06	FSR	WB-X1-XLR	16"	FLUSH	PROVIDE	PROVIDE		
A:101.03	ASSORTED CONNECTION WALL BOX	WALL BOX 12X16X06	FSR	WB-X1-XLR	16"	FLUSH	PROVIDE	PROVIDE		
A:101.04	ASSORTED CONNECTION WALL BOX	WALL BOX 12X16X06	FSR	WB-X1-XLR	16"	FLUSH	PROVIDE	PROVIDE		
A:201.01	ASSORTED CONNECTION WALL BOX	4-GANG	RACO	943	46"	FLUSH	BLANK	NONE		
A:201.02	ASSORTED CONNECTION WALL BOX	3-GANG	RACO	942	46"	FLUSH	BLANK	NONE		
A:101.01	ASSORTED CONNECTION WALL BOX	WALL BOX 12X16X06	FSR	WB-X1-XLR	16"	FLUSH	PROVIDE	PROVIDE		
J:101.01	ASSORTED CONNECTION WALL BOX	NEMA 04x04x04	HOFFMAN	ASG4X4X4	316"	FLUSH	PROVIDE	NONE		
J:101.02	ASSORTED CONNECTION WALL BOX	NEMA 04x04x04	HOFFMAN	ASG4X4X4	274"	FLUSH	PROVIDE	NONE		
J:101.03	ASSORTED CONNECTION WALL BOX	NEMA 04x04x04	HOFFMAN	ASG4X4X4	297"	FLUSH	PROVIDE	NONE		
J:101.04	ASSORTED CONNECTION WALL BOX	NEMA 04x04x04	HOFFMAN	ASG4X4X4	166"	FLUSH	PROVIDE	NONE		
K:101.01	COACHING CAMERA INFRASTRUCTURE	NEMA 20x20x08	HAMMOND	1418D8	108"	SURFACE	BLANK	NONE		
K:101.02	COACHING CAMERA INFRASTRUCTURE	NEMA 20x20x08	HAMMOND	1418D8	108"	SURFACE	BLANK	NONE		
K:101.03	COACHING CAMERA INFRASTRUCTURE	NEMA 20x20x08	HAMMOND	1418D8	108"	SURFACE	BLANK	NONE		
K:101.04	COACHING CAMERA INFRASTRUCTURE	NEMA 20x20x08	HAMMOND	1418D8	108"	SURFACE	BLANK	NONE		
K:101.11	COACHING CAMERA INFRASTRUCTURE	NEMA 20x20x08	HAMMOND	1418D8	72"	SURFACE	BLANK	NONE		
V:101.01	ASSORTED CONNECTION WALL BOX	NEMA 06x06x04	HOFFMAN	ASG6X6X4	240"	SURFACE	BLANK	NONE		
W:01.01	WIRELESS MICROPHONE ANTENNA	NEMA 04x04x04	HOFFMAN	ASG4X4X4	168"	FLUSH	PROVIDE	NONE		
W:01.02	WIRELESS MICROPHONE ANTENNA	NEMA 04x04x04	HOFFMAN	ASG4X4X4	168"	FLUSH	PROVIDE	NONE		
W:01.03	ASSISTIVE LISTENING ANTENNA	NEMA 04x04x04	HOFFMAN	ASG4X4X4	168"	FLUSH	PROVIDE	NONE		

BROADCAST PREWIRE BOX SCHEDULE										
BOX FUNCTION		BOX PROPERTIES				BOX ACCESSORIES			NOTES	
ID	DESCRIPTION	B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT (CENTER OF BOX)	MOUNTING	COVER	INSERTS			
B:107.01	BROADCAST PREWIRE PANEL	BULLOCH FABRICATING	AV-RP-22x22x10-CPT-DS-SS-S	22"	SURFACE	INCLUDE	BY OWNER			

AUDIO-VIDEO EQUIPMENT RACK SCHEDULE										
ID	SPEC NAME	RACK PROPERTIES		MOUNTING REQUIREMENTS			RESPONSIBILITIES			NOTES
		B.O.D. MANUF.	B.O.D. MODEL	RACK UNITS	TYPE	INSTALL HEIGHT	MEASURED TO	FURNISHED BY	INSTALLED BY	
R:109.01	OPEN SIDES - XD	MIDDLE ATLANTIC	WRK-44-32	44	FLOOR	0"	FINISHED FLOOR	CONTRACTOR	CONTRACTOR	
R:109.02	OPEN SIDES - XD	MIDDLE ATLANTIC	WRK-44-32	44	FLOOR	0"	FINISHED FLOOR	DVLED VENDOR	DVLED VENDOR	

AUDIO-VIDEO FLAT PANEL DISPLAY SCHEDULE										
ID	SPEC NAME	DISPLAY PROPERTIES		MOUNTING REQUIREMENTS			DISPLAY RESPONSIBILITY			NOTES
		B.O.D. MANUF.	B.O.D. MODEL	INSTALL HEIGHT AFF. (CENTER OF DISPLAY)	TYPE	FURNISHED BY	INSTALLED BY	PROVIDED BY		
DS:1.101.01	LCD COMM DISPLAY - 2160/65	NEC	E657Q	68"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
DS:L301.01	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.01	LCD COMM DISPLAY - 2160/65	NEC	E657Q	66"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.02	LCD COMM DISPLAY - 2160/65	NEC	E657Q	66"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.03	LCD COMM DISPLAY - 2160/65	NEC	E657Q	66"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.04	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.05	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.06	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.07	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.08	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		
TV:201.09	LCD COMM DISPLAY - 2160/65	NEC	E657Q	54"	WALL - ARTICULATING	CONTRACTOR	CONTRACTOR	OWNER		

AUDIO-VIDEO AMPLIFIER SCHEDULE										
ID	SPEC NAME	AMPLIFIER PROPERTIES			NETWORK REQUIREMENTS			NOTES		
		LOCATION	B.O.D. MANUF.	B.O.D. MODEL	IDF	VLAN	BLU-LINK PORTS		NON-POE LAN PORTS	
R:109.01 AMP 01	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 02	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 03	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 04	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 05	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 06	AMPLIFIER - TYPE 2400x4ND	IT 109	Crown Audio	DCI 4J2400N	IT 109	AV AUDIO LAN 2	1			
R:109.01 AMP 07	AMPLIFIER - TYPE 600x8ND	IT 109	Crown Audio	DCI 8J600N	IT 109	AV AUDIO LAN 2	1			

NETWORK REQUIREMENTS NOTES:
 AUDIO LAN SHALL BE COMPRISED OF THE FOLLOWING:
 FOR DEVICES LISTED WITH TOTAL QUANTITY OF ONE (1) PORTS: PROVIDE CONNECTION TO PRIMARY CONTROL VLAN.
 LOOP BLU-LINK THRU RELEVANT SYSTEM COMPONENTS (AMPLIFIERS) AND AND BACK TO DSP EQUIPMENT FOR A FULL REDUNDANT LOOP

SCHEDULE NOTES:
 1. REFER TO SHEET TA701 DETAIL 1 FOR EXAMPLE POWER AMPLIFIER AND LOUSPEAKER SIGNAL FLOW DIAGRAM.

SCHEDULE KEY NOTES:
 A - NOT IN USE



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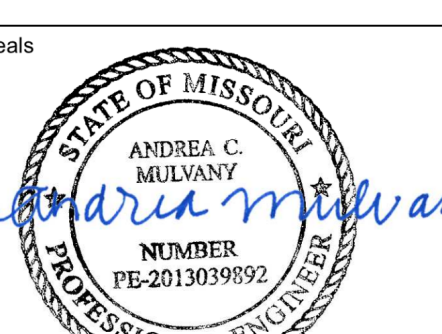
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AUDIO-VIDEO
 SCHEDULES

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