## PORTAGE COUNTY EMERGENCY OPERATIONS CENTER

as prepared by

## HASENSTAB ARCHITECTS, INC. 190 N. Union Street, Suite 400 Akron, OH 44304

HAI Project No. 22048.001

To: All Bidders

This Addendum becomes a part of the Contract Documents and modifies the original Bidding Documents dated 4-25-2023, as noted below. The Bidder shall acknowledge receipt of this Addendum on the Form of Proposal. Failure to do so may subject the Bidder to disqualification.

## Changes To Prior Addenda

1. None.

## **General Clarifications**

## 1. REVISED BID DUE DATE: May 31, 2:00 PM

2. See attached Pre-Bid meeting minutes and attendance sheet from the.

## **Questions from Bidders**

- 1. Does the project have any disadvantaged business (EDGE, MBE, SBE, DBE, WBE, etc) percentage requirements?
  - a. NOT REQUIRED.
- 2. 011000-1.5-B-1 states that the appliances are Owner Furnished, Contractor Installed but the Responsibility Matrix states that the refrigerator is provided and installed by Contractor. Can you please clarify.
  - a. APPLIANCES ARE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. PLUMBING HOOKUPS FOR FRIDGE, DISHWASHER BY PLUMBING CONTRACTOR.
- 3. There is no spec or model number for the industrial shelving. Can you please provide?
  - a. SHELVING IS PROVIDED AS PART OF THE FURNITURE BID PACKAGE.
- 4. Who is providing the wiring and devices for Cameras and Card Readers? There is no spec on this. **a. CAMERAS, CCTV WIRING, CARD READERS AND LOW VOLTAGE CARD READER** 
  - WIRING IS BY OWNER'S VENDOR. EC TO PROVIDE CONDUIT AND PATHWAYS.
- 5. Rack layout on drawing E0-3 calls for a fiber patch panel. What size patch panel is needed? Is this to be left blank or are SM or MM connector panels needed? There is no fiber called out on the drawings, is this just for future use?
  - a. THE FIBER PATCH PANELS ARE TO BE FURNISHED BY THE GC'S TECHNOLOGY CONTRACTOR. EC ALSO PROVIDES CONDUIT AND BOXES.
  - b. THE OWNER'S INTERNET SERVICE PROVIDER IS PULLING FIBER.
- 6. Spec 270740 lists Siemens faceplates and Jacks, Dwg E0-3 calls out Legrand. What manufacturer is preferred?
  - a. EITHER OF THE LISTED MANUFACTURERS ARE ACCEPTABLE.

- 7. Spec 270740 lists Middle Atlantic Horizontal wire managers, which Dwg E0-3 calls out Hellerman Tyton. What manufacturer is preferred?
  - a. ANY OF THE LISTED MANUFACTURERS IS ACCEPTABLE.
- 8. The slide gate as it appears on drawing C-2 does not have enough room to open. There is 24ft between the gate opening post and the fence corner post. but the gate has an over-all length of 30ft +.
  - a. THE GATE DESIGN AND LENGTH OF COUNTER-BALANCE WILL BE AS RECOMMENDED BY THE GATE MANUFACTURER. THE WIDTH OF THE GATE IN THE OPEN POSITION IS TO BE A MINIMUM OF 18 FEET.
- 9. 084113 Aluminum-Framed Entrances and Storefront. Section 2.3 Storefront System line 3.d note the finish to be High Performance Organic Finish and Section 2.10 Aluminum Finishes Line 1.a note the finish to be Kawneer Permanodic Dark Bronze. Confirm if the finish is to be Painted or Anodized Dark Bronze.

## a. FINISH: DARK BRONZE.

10. Detail 2/A5-5 Show the Storefront to be Front Set. Detail 3/A5-7 and 084113 specifications both note center set. Confirm if it's safe to assume the Storefront is Center Set.

## a. PROVIDE CENTER SET STOREFRONT.

- 11. Spec 011000-2 states that TVs are Owner-Furnished, Contractor installed. Would the installation of these TVs need to be included in the tele-data bid?
  - a. THE OWNER'S A/V VENDOR WILL INSTALL THE TVS AND TV MOUNTS. GC WILL PROVIDE BLOCKING IN WALLS.
- 12. Is this project Tax Exempt?
  - a. YES.
- 13. What is the tentative start date and the duration of the project?a. START JULY 01, 13 MONTH DURATION. REFER TO PREBID MEETING NOTES.
- 14. You stated that the drawings have been submitted to plan review, is the permit cost known?a. NO.
- 15. Aggregate Piers- Spec section 31-33-31- part 6- states "should be" geotechnical engineer of record. Please clarify who is to pay for these tests/inspections.
  - a. WERTZ GEOTECHNICAL HAS BEEN RETAINED BY PORTAGE COUNTY FOR CONSTRUCTION SPECIAL INSPECTIONS, TESTS & REPORTS.

## Changes To Project Manual

- 1. BID FORM: (ATTACHED)
  - a. REPLACE "CONSTRUCTION DOCUMENTS" BID FORM WITH "ADDENDUM 1" BID FORM.
- 2. SECTION 04200, E.1 "UNIT MASONRY":
  - a. ADD DCMU GROUND FACE MANUFACTURER SUPPLIER: COUNTY MATERIALS, GROUND FACE "PREMIER ULTRA BURNISHED MASONRY UNITS"
  - b. REPRESENTED BY: SCHORY CEMENT PRODUCTS, KEN DiPANFILO.
- 3. SECTION 224000 PLUMBING FIXTURES
  - a. REVISED TO INCLUDE ACORN AS AN ACCEPTABLE SERVICE SINK MANUFACTURER.
  - b. REVISED TO INCLUDE MURDOCK AS AN ACCEPTABLE ELECTRIC WATER COOLER MANUFACTURER.

4. SECTION 238200 CONVECTION HEATING AND COOLING

a. REVISED TO INCLUDE RAYWALL AS AN ACCEPTABLE ELECTRIC WALL HEATER MANUFACTURER.

## Changes To Drawings

## 1. <u>REPLACE THE FOLLOWING CIVIL DRAWINGS WITH ATTACHED:</u>

- a. <u>C-1 EXISTING CONDITIONS AND DEMOLITION PLAN</u>
  - 1. ADDED REMOVAL OF EXISTING SEWER FOR INSTALLATION OF NEW GREASE / OIL INTERCEPTOR.
- b. <u>C-3 UTILITIES PLAN</u>
  - 1. ADDED OIL / GREASE INTERCEPTOR.
  - 2. REVISED FORCE MAIN LENGTH AND CONNECTION TO EXISTING SEWER.
  - 3. REVISED SANITARY STRUCTURE AND PIPE SCHEDULES.
  - 4. ADDED KEYED NOTES, SANITARY SEWER NOTES.
- c. <u>C-9</u> CONSTRUCTION NOTES AND DETAILS.
  - 1. ADDED PUMP STATION PROJECT SPECIFIC NOTES.
- d. <u>C-11</u> CONSTRUCTION NOTES AND DETAILS.
  - 1. ADDED PORTAGE COUNTY WATER RESOURCES TYPICAL DETAILS.
  - 2. ADDED "ROMAC" TYPE CB SEWER SADDLE SPECIFICATIONS.

## 2. <u>REPLACE THE FOLLOWING PLUMBING DRAWINGS WITH ATTACHED:</u>

- a. <u>P1-1 PLUMBING DEMOLITION PLAN</u>
  - 1. REVISED TO CLARIFY EXISTING CONDITIONS.
- b. P2-1 PLUMBING PLAN
  - 1. REVISED TO INCLUDE FLOOR DRAINS IN BATHROOM (102), WOMEN (111), SHOWER (112), AND MEN (113).
  - 2. REVISED TO INCLUDE ADDITIONAL EQUIPMENT WATER LINES IN BREAK ROOM (116).
  - 3. REVISED SANITARY MAIN INTO ADDITION TO 6" DIAMETER AND INCLUDED INVERT ELEVATION.
  - 4. REVISED TO INCLUDE VENT LINE FROM EXTERIOR GREASE INTERCEPTOR.
- c. P3-1 ENLARGED PLUMBING PLANS AND SANITARY ISO
  - 1. REVISED TO INCLUDE FLOOR DRAINS IN BATHROOM (102), WOMEN (111), SHOWER (112), AND MEN (113).
  - 2. REVISED TO INCLUDE WATER METER AND REDUCED PRESSURE BACKFLOW PREVENTER AT WATER ENTRY.
- d. <u>P4-1</u> PLUMBING SCHEDULE AND DETAILS:
  - 1. REVISED TO INCLUDE WATER ENTRY SCHEDULE, DETAIL AND GENERAL NOTES.
- e. <u>P4-1 PLUMBING FIXTURE SCHEDULE ADDITIONAL MANUFACTURERS</u>
  - 1. WC-1 WATER COOLER / BOTTLE FILLER MANUFACTURER: MURDOCK #A171108F-UG (GREY FINISH) WITH BOTTLE FILLER BF12-BCD AND ACCESSORY: 1500 GALLON CAPACITY FILTER #WF-1EZ.

2. MB-1 MOP BASIN ACCEPTABLE MANUFACTURER: TERRAZZO-WARE MODEL #TDF-24 24-INCH SQUARE DROP FRONT MOP SINK WITH #KD-G3 3" RUBBER DRAIN GASKET ACCESSORY.

## END OF ADDENDUM

## **Pre-Bid Meeting Notes**

Portage County Emergency Operations Center Building Addition and Renovation

Date / Time: May 09, 2023, at 2:00-3:00 PM Location: 2978 State Route 59 Ravenna, OH 44266

## Note: Clarifications, additions or corrections to these notes are in bold text.

- I. Introductions & Sign-in: All attendees shall sign in listing their name, company name, phone number, fax number & e-mail address.
  - a. Ryan Shackleford explained the use of the buildings.
- II. General Project Description:
  - a. THIS PROJECT IS BEING BID AS A SINGLE PRIME CONTRACT (GC)
  - b. The Work includes building addition to and renovations to the existing Station 30 building. Scope includes but is not limited to the following:
    - i. Site work includes, utilities, paving and storm drainage. Subsurface work includes rammed aggregate pier (RAP) design and installation.
    - ii. A septic field may be located under the addition. IF found that is an addition service to remove. Bid only what is no the drawings, and what can be anticipated from the existing conditions drawings including survey and soil borings.
    - iii. RAP is a delegated design provided by the GC.
    - iv. Selective demolition of existing building areas. An existing metal sided pole barn at the south-east comer is to be removed.
    - v. Concrete foundations, precast concrete roof deck.
    - vi. Masonry bearing walls and brick veneer cavity walls.
    - vii. Structural steel framing supporting roof deck and steel roof ladders.
    - viii. Wood framing including engineered wood trusses and sheathing for additions to Station 30, and interior millwork cabinets.
    - ix. Thermal and moisture protection includes prefinished metal siding, soffits, gutters and downspouts. EPDM roofing system, asphalt shingle roofing, expansion joint between buildings.
    - x. Doors and windows include: Steel doors, frames and hardware. Tornado shelter doors, aluminum storefront, and interior aluminum framing system.
    - xi. Existing overhead doors are to be painted both sides, except where there is a plastic panel on the interior side of the center door.
    - xii. Two Existing windows are to be replaced as noted on the drawings.
    - xiii. Finishes include ceramic tile, carpet, rubber flooring, acoustical ceilings, and paint. **The new precast concrete ceiling is not painted,**



Akron190 N. Union St. Suite 400Cleveland700 W. St. Clair Ave. Suite 300Pittsburgh5149 Butler Street

Union Point Hoyt Block Akron, Ohio 44304 Cleveland, Ohio 44113 Pittsburgh, PA 15201

## therefore all conduit on this new ceiling is not painted. Conduit on the repaired drywall ceiling of the Apparatus is painted.

- xiv. Specialties include items listed in Division 10 specification.
- xv. Furnishings include roller window shades. A separate bid package for furniture and **industrial shelving** is by others.
- xvi. Plumbing fixtures and piping systems.
- xvii. HVAC units and systems.
- xviii. Electrical devices and systems
- xix. Communication cabling.
- c. Scope by Owner:
  - i. Security cameras and card readers
  - ii. AV systems
  - iii. Head End equipment
  - iv. Internet Service (ISP)
  - v. Exterior digital sign.
  - vi. Water system upgrades to existing well water system.
  - vii. Appliances. Furnished by owner, installed by Contractor.
- d. Station 30 building will remain in operation throughout construction. Coordination with County will need to be coordinated to limit disturbances.
- III. Miscellaneous Project Requirements (refer to documents for all project requirements):
  - a. Hazardous Materials may be present in the building. Refer to cover sheet. If material is suspected to be hazardous during construction, the owner will test and if required, remove it.
  - b. Work hours within the project area: 7:00 AM to 6:00 PM (Monday Saturday), unless noted otherwise.
    - i. Off-hours or off shift work is not anticipated.
  - c. Any system shut-downs (utilities) must be coordinated with the Owner.
  - d. Allowances are listed on the Bid Form and shall be included in the Base Bid Total. Allowance amounts have been pre-populated in the Bid form for your convenience:
    - i. The Amount of \$25,000.00 for ODOT Bond.
  - e. Material Delivery / Refuse Removal:
    - i. Material deliveries must be received by Contractor personnel.
    - Keep driveways, loading areas, and entrances service premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
    - Site Logistics dumpsters / storage containers / temporary side walk closures / temporary road or lane closures / delivery routes / etc. all must be coordinated with the Owner.



PORTAGE COUNTY EMERGENCY OPERATIONS CENTER PRE-BID MEETING AGENDA – MAY 09, 2023 @ 2:00 PM

- 1. Sidewalk, road, and / or lane closures must be coordinated with the **Ravenna Township and ODOT.** The Contractor shall procure and provide a necessary permits and fees associated with sidewalk, road, and / or lane closures.
- f. General Work Restrictions for Contractors:
  - i. Toilet Facilities Contractor must provide their own portable facilities. Use of the buildings existing toilet facilities will not be permitted.
  - ii. No Smoking Entire Property
  - iii. Parking Will be coordinated with the Owner.
  - iv. Contractor will provide a trailer per the Temporary Facilities specification. Each contractor should anticipate providing storage trailers for their materials and equipment during construction.
  - v. The existing fence w/ razor wire provides limited security for lay down of materials, until it is removed.
  - vi. Existing Apparatus equipment is to remain during the project. It will be moved as required to accommodate Contractor work.
- g. Project On-Site Supervision
  - i. The GENERAL CONTRACTOR shall have a designated superintendent on site when their company is self-performing any work or when any subcontracted work is being performed. No Exceptions.
  - ii. Provide Trailer for GC offices and meetings. Refer to Temporary Facilities.
- h. Miscellaneous
  - i. **Contact Eric Beach via phone or email if** a contractor needs access to Station 30 **before the bid due date.**
- IV. Bid Procedures:
  - a. Interpretations or Correction of Bidding Documents (Questions): All questions shall be submitted in writing. The Addendum Number 1 will be issued no later than 72 hours before working:
     Friday, May 26, 2023, at 2:00 PM Local Time.
    - Interpretation Requests (Questions) shall be submitted in writing by e-mail only to Eric Beach (Hasenstab Architects) at ericb@hasenstabinc.com
    - ii. Responses (including the Pre-Bid Meeting Minutes) to Interpretation Requests will be made by Addendum.



- b. It is the Contractor's responsibility to check for issued addendum and to verify that their correct mailing address is listed on the SE Blue Website.
- c. List of plan holders can be found on SE Blueprint web site (<u>https://www.seblueprint.com</u>) on the Plan Room Tab
- d. Sealed Bids due Wednesday, May 31, 2023, prior to 2:00 PM Local Time
  - i. Bids are to be addressed to:

Portage County Supervisors 449 South Meridian Street Ravenna, OH 44266

- V. Bid Form and Submittals with Bid Form
  - a. Complete all blank lines on the Bid Form. Blank lines not applicable to a bidder's specific contract shall be completed as "N/A".
  - b. Acknowledge receipt of Addendum #1 and Date).
  - c. Bid Form Breakdown
    - i. Total Cost for Work
    - ii. Cost for Performance Bond
    - iii. Fill in unit prices for various RAP work, and for replacing existing deteriorated plywood sheathing.
  - d. Time of Completion
    - i. Indicate the Number of Calendar Days needed to complete the work.
    - ii. The anticipated start date is July 01, 2023.
    - iii. Substantial completion date is 13 months, or August 01, 2023.
    - iv. Liquidated Damages shall be \$100 per day. Long lead time items (Generator, Switch Gear, HVAC RTU) are exempt from the Liquidated Damage requirement.
    - v. Ohio Prevailing Wage Rates, (NOT federal "Davis Bacon" wage rates) applies to this project.
  - e. Review attachments required per Item #5 in the Bid Form:
    - i. Complete and Submit Bid Bond (AIA-A310) and associated supporting attachments.
    - ii. Complete and Submit Contractor's Qualification Statement (AIA-A305)
    - iii. Complete and Submit Compliance with Equal Employment Opportunity Form
    - iv. Complete and Submit Bidder's Affidavit (compliance with ORC 5719.042)
    - v. Complete and Submit Bidder's Affidavit (compliance with ORC 3517.13)
    - vi. Complete and Submit Non-Collusion Affidavit



PORTAGE COUNTY EMERGENCY OPERATIONS CENTER PRE-BID MEETING AGENDA – MAY 09, 2023 @ 2:00 PM

- vii. Complete and Submit Vendor, Contractor, Service Provider Information Sheet
- viii. Submit List of Major Suppliers and Subcontractors.
- ix. Submit Bids as follows: One (1) Original and Two (2) Copies
- VI. Addendum Items
  - a. Pre-Bid meeting minutes and Pre-Bid Sign-In Sheet will be attached to the Addendum.
  - b. Two RFI's have been received and are responded to in Addendum #1.
  - c. Plumbing Addendum sketches / drawings.
- VII. Walk through and conclude Pre-Bid Meetinga. Owner and Architect **provided** a guided walk-thru of the construction area.
- VIII. Questions:
  - a. Who is responsible for technology pathways and data wiring?

## i. Response: The GC.

- **b.** Are existing floor drains to remain in the Apparatus Storage area?
  - i. Response: Yes, except for the two existing "T" shaped x 3'-0" trench drains that are filled and capped with concrete. Refer to demolition plans.
- **c.** Has an electrical upgrade application been applied for with the Electric Utility?
  - i. Response: NO
- d. Is there a building Permit?
  - i. Response: The project is currently in review. Addendum 1 includes revised Civil and Plumbing drawings based on comments from Portage Co Water Resources.
- e. Is the existing Apparatus floor epoxy painted?
  - i. Response: No., it will be cleaned and sealed with a "shark grip" slip resistant texture. Refer to the A-9 Finish Plan.
- f. Is pointing required on the existing building?
  - i. Response: Yes, the exterior stair step clacks need pointed and or sealed. Minor tuck pointing is required. At the north center overhead door, the masonry wall needs to be repaired:





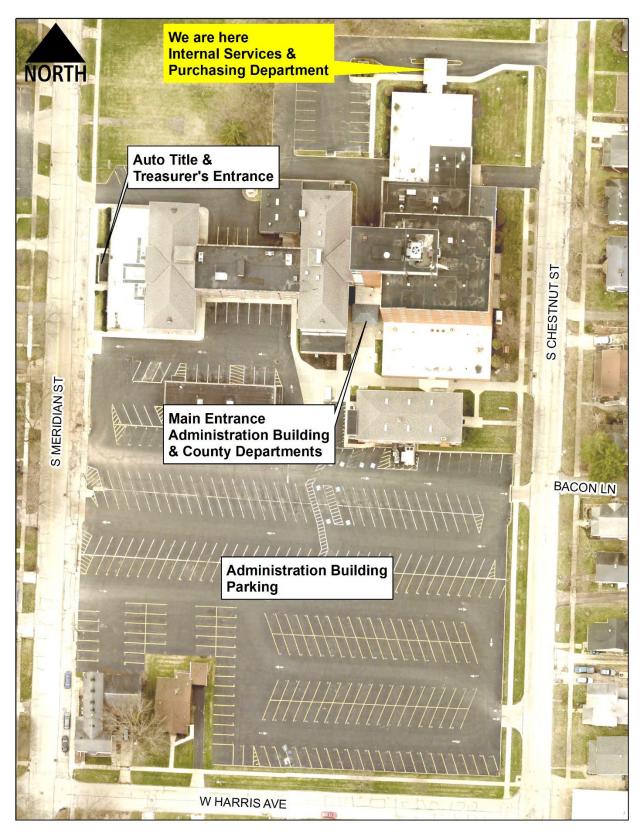
- g. Is existing 12x12 VCT tile to be removed as part of demolition?
  - i. Response: Yes, remove tile pictured below. The tile / glue will be tested by the owner prior to demo. It will be removed by others only IF found to be hazardous materials.





PORTAGE COUNTY EMERGENCY OPERATIONS CENTER PRE-BID MEETING AGENDA – MAY 09, 2023 @ 2:00 PM

## Bid Drop Off Location:





Date: May 9, 2023 @ 2:00 PM

Re: PreBid meeting for Portage County Emergency Operations Center 2978 State Route 59 Ravenna, OH 44266

Sign-in Sheet

rshackelford@portageco.com SKautzman@portageco.com ericb@hasenstabinc.com Email 330-396-1602 Cell ı 330-434-8546 330-297-4569 330-297-3522 Fax Telephone 330-434-4464 330-297-3607 330-297-3611 Ryan T. Shackelford Name Shannon Kautzman Eric Beach Director, Portage County Office of Homeland Security 3 Hasenstab Architects, Inc. Services Interim Director Portage County Internal Company &Emergency Mgmt 2 1 4 5 6 7 8 9 10





Laborers' International Union of North America, AFL-CIO

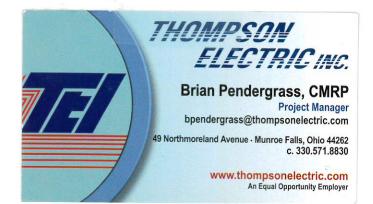
LOCAL No. 894 AFFILIATED WITH OHIO STATE BUILDING AND CONSTRUCTION TRADES COUNCIL AFL-CIO AND OHIO STATE FEDERATION OF LABOR AFL-CIO

> PHILL RALSTON Business Agent - Portage County Secretary-Treasurer

720 Wolf Ledges Akron, Ohio 44311-1582 • 5C En

Phone: 330-535-6145 Fax: 330-535-9331 Cell: 330-571-7429 Email: phill@local894.com



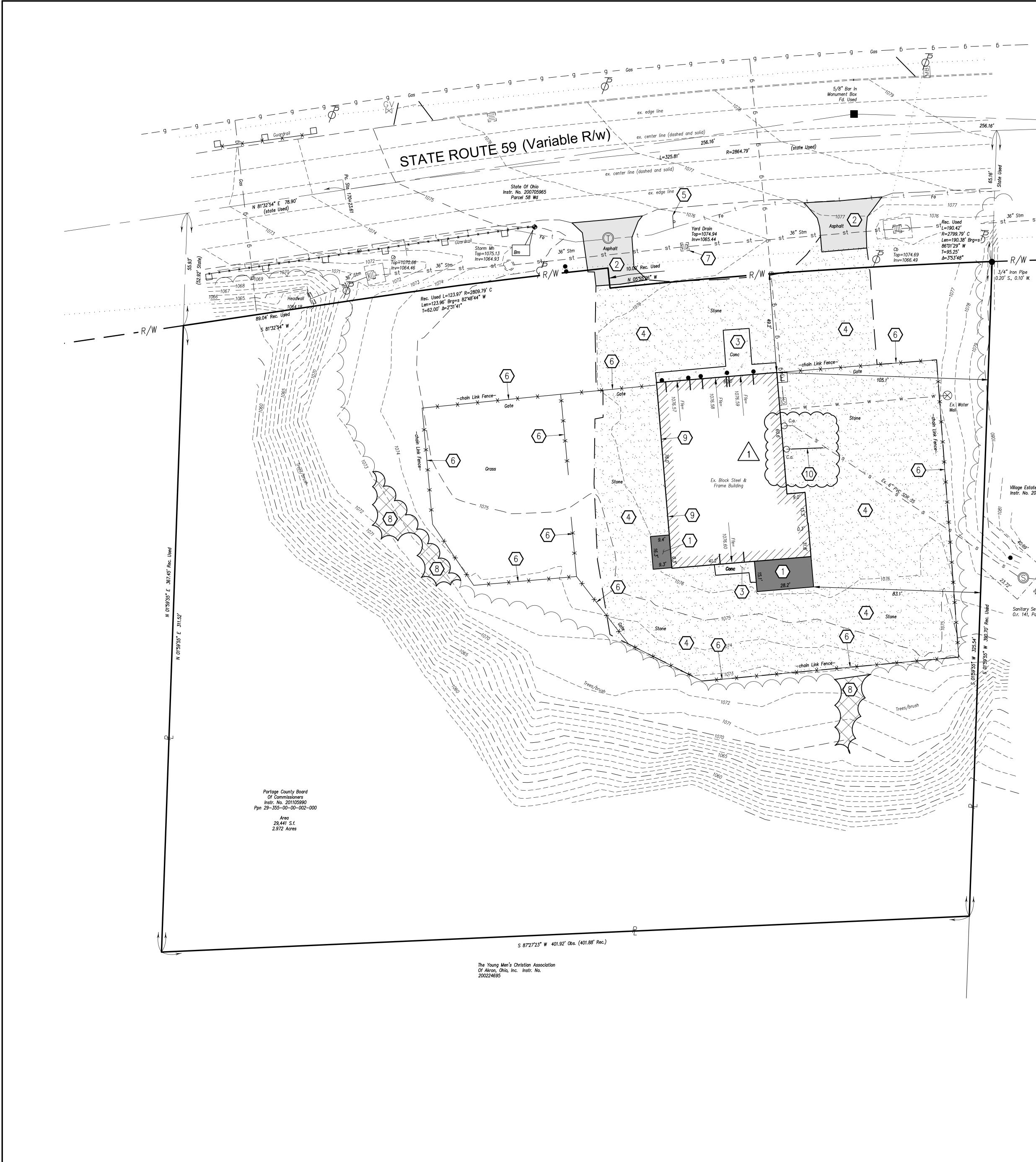


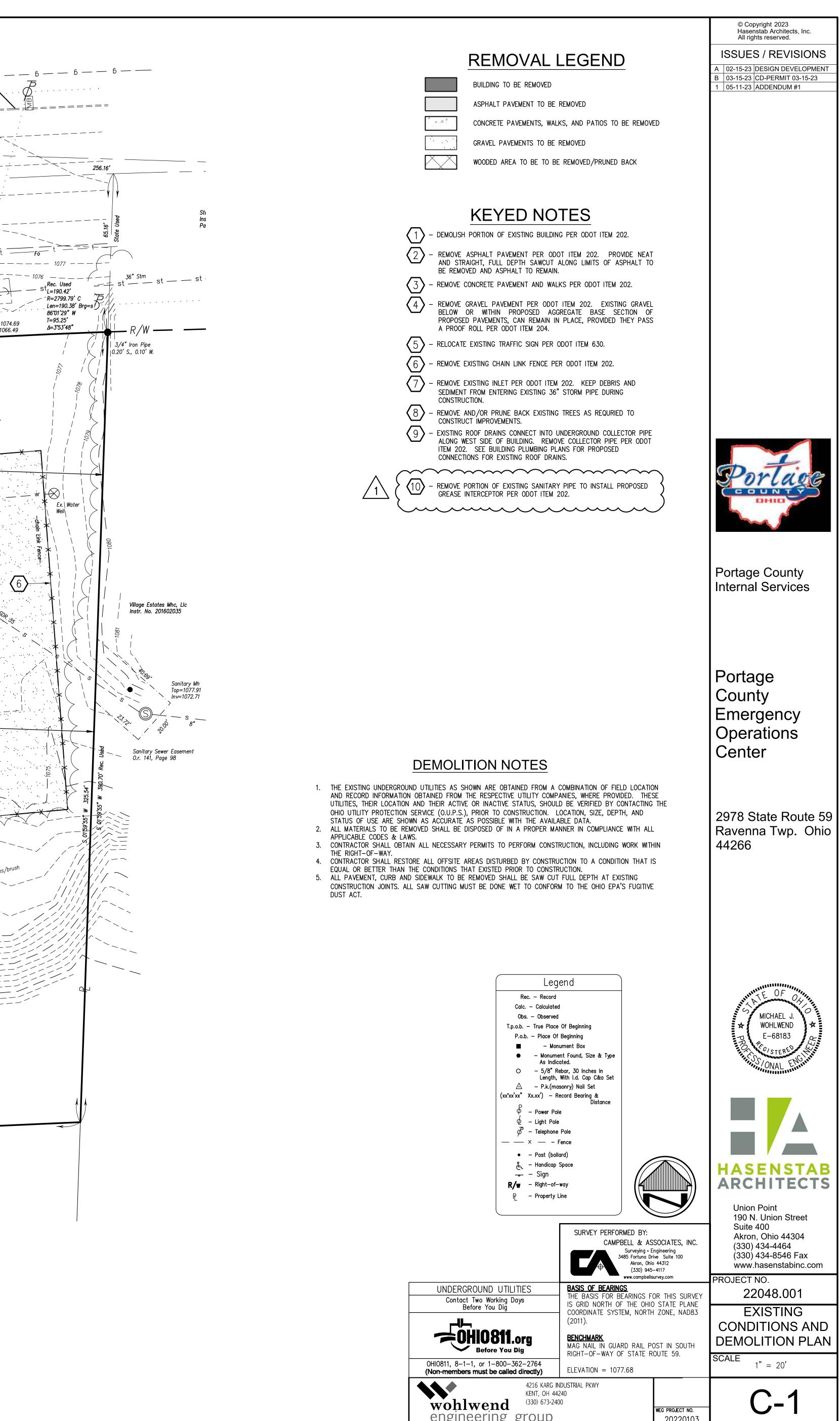


Detailed, RFIs Grouped by RFI Number

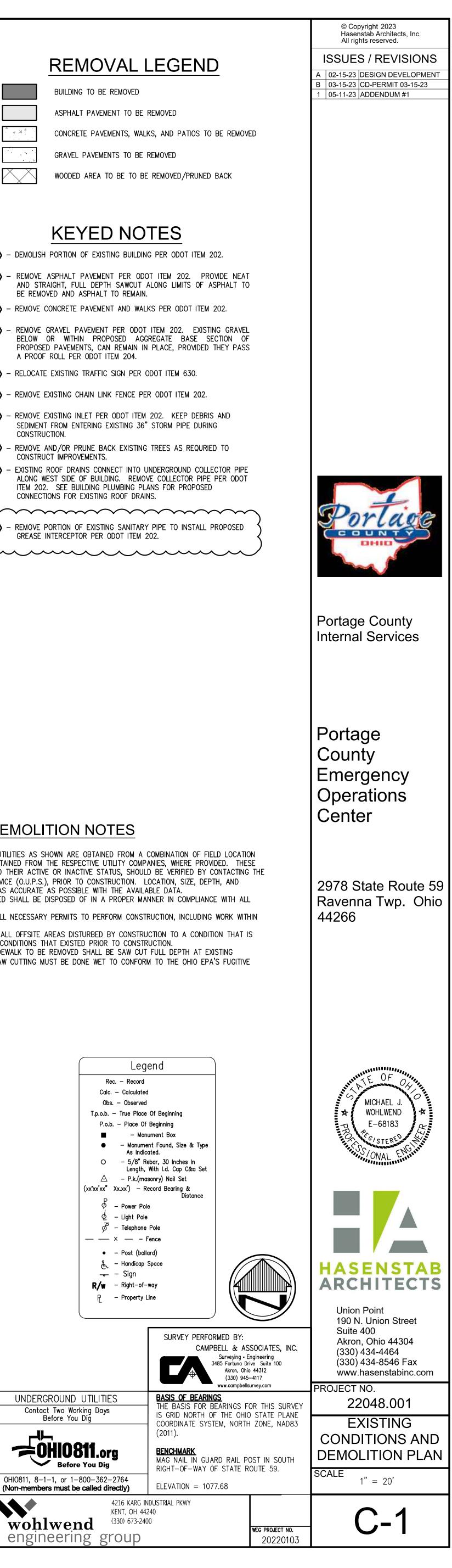
Current Bid		-	<b># 05-675</b> ax:		
RFI#: 001					Date Created: 5/8/202
Answer Company	Answered By		Author Co	ompany	Authored By
Hasentab Architects 190 North Union St. Suite 400 Akron, Ohio 44304	Eric Beach		127 East I	Construction Company Main Street OH 44266	Martin Snode
Co-Respondent			Author R	FI Number	
Subject		Disciplin	10	Catego	ry
Portage County EOC-Div 27 Com	munications	Commur	ication	Specific	ation Clarification
Cc: Company Name	Contact N	lame	Copies	Notes	
Question					Date Required: 5/15/202
1)Spec 011000-2 states that TVs be included in the tele-data bid?	are Owner-Furnish	ed, Contra	actor installed	d. Would the installation	of these TVs need to
2)Who is providing cameras and of Are these owner provided, does to of the tele-data package, please p	he owner have its	own secur	ity vendor or	are those part of the te	le-data package? If part
<ul><li>3)What size fiber patch panel? SN</li><li>Are we pulling fiber? There is</li></ul>			s. If providing	g, need to know strand	count and type.
4)Specs and Drawings call out dif calls out Legrand. Which is prefer	red?				
" Spec 270740 Horizontal Wire preferred?	e Managers - Middle	e Atlantic,	Drawing E0-	3 Calls out Hellerman 1	yton. Which is
Suggestion					
A					Dete Anomandu
Answer					Date Answered:
1) The Owner's A/V vendor wil	l install the TVs a	nd TV Mo	unts. GC wi	II provide blocking in	walls.
2) The Owner's security vendo	r is providing cam	ieras and	card reade	rs.	
3) The fiber patch panels are t					onduit and boxes.
4) Either Legrand or Siemens a	are acceptable m	fr's for fa	ce plates ar	nd jacks.	
5) For horizontal wire racks, al	I three manufactu	irers are a	acceptable:	Hellerman, Tyton or M	/liddle Atlantic.

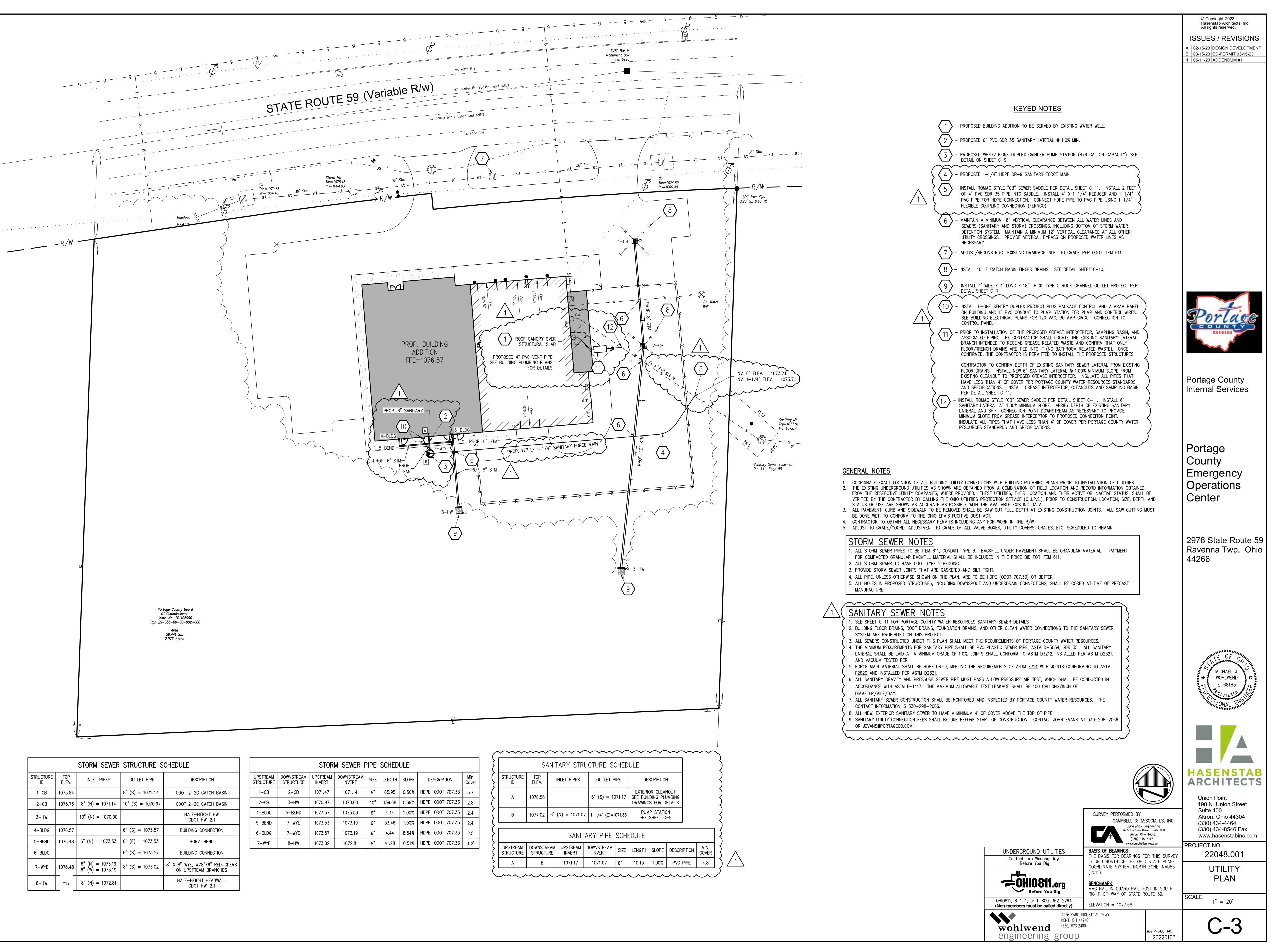
By: Eric Beach, Hasenstab Architects, Inc. Date: 5/9/23





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STORM SEWER STRUCTURE SCHEDULE								
STRUCTURE ID	top Elev.	INLET PIPES	OUTLET PIPE	DESCRIPTION				
1–CB	1075.84		8" (S) = 1071.47	ODOT 2-2C CATCH BASIN				
2-CB	1075.75	8" (N) = 1071.14	10" (S) = 1070.97	ODOT 2-2C CATCH BASIN				
3-HW		10"(N) = 1070.00		HALF-HEIGHT HW ODOT HW-2.1				
4-BLDG	1076.57		6"(S) = 1073.57	BUILDING CONNECTION				
5-BEND	1076.48	6" (N) = 1073.53	6"(E) = 1073.53	HORZ. BEND				
6-BLDG			6"(S) = 1073.57	BUILDING CONNECTION				
7-WYE	1076.48	6" (N) = 1073.19 6" (W) = 1073.19	8" (S) = 1073.02	8" X 8" WYE, W/8"X6" REDUCDERS ON UPSTREAM BRANCHES				
8-HW	???	8" (N) = 1072.81		HALF-HEIGHT HEADWALL ODOT HW-2.1				

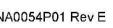
			ULE	CHED	JCTURE S	ARY STRU	SANIT				JLE	SCHED	PIPE	M SEWER F	STOR		
	N	SCRIPTION	DE	PIPE	OUTLET F	NLET PIPES	TOP ELEV.	STRUCTURE ID	Min. Cover	DESCRIPTION	SLOPE	LENGTH	SIZE	DOWNSTREAM INVERT	UPSTREAM INVERT	DOWNSTREAM STRUCTURE	UPSTREAM STRUCTURE
		OR CLEAN DING PLU	Exteri See Buii	071.17	6" (S) = 10		1076.56	Α	3.7'	HDPE, ODOT 707.33	0.50%	65.95	8"	1071.14	1071.47	2–CB	1–CB
		S FOR D							2.8'	HDPE, ODOT 707.33	0.69%	139.68	10"	1070.00	1070.97	3-HW	2-CB
		IP STATIC SHEET C:		071.83	1-1/4" (E)=1	(N) = 1071.07	1077.02 6"	В	2.4'	HDPE, ODOT 707.33	1.00%	4.44	6"	1073.53	1073.57	5-BEND	4-BLDG
		SHEET O							2.4'	HDPE, ODOT 707.33	1.00%	33.46	6"	1073.19	1073.53	7-WYE	5-BEND
			EDULE	SCHE	ARY PIPE	SANITA			2.5'	HDPE, ODOT 707.33	8.54%	4.44	6"	1073.19	1073.57	7–WYE	6-BLDG
Т					DOWNSTREAM	UPSTREAM	DOWNSTREAM	UPSTREAM	1.2'	HDPE, ODOT 707.33	0.51%	41.28	8"	1072.81	1073.02	8-HW	7-WYE
	DESCRIPTION	SLOPE	LENGTH	SIZE	INVERT	INVERT	STRUCTURE	STRUCTURE									
	PVC PIPE	1.00%	10.13	6"	1071.07	1071.17	В	A									

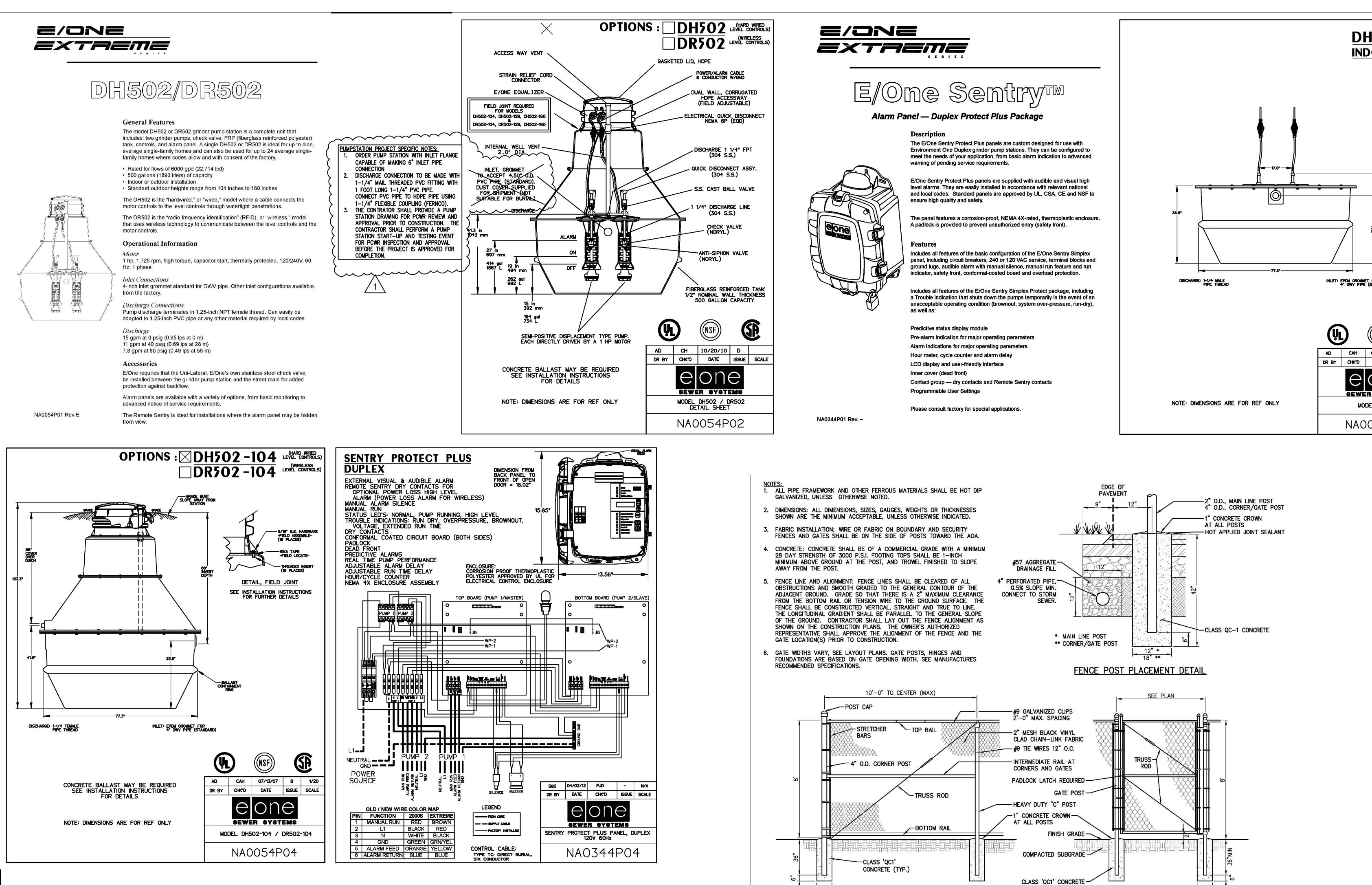
SURVEY PERFORMED BY: CAMPBELL & A         Surveying: Survey: Survey: Survey: Su		
Contact Two Working Days Before You Dig       THE BASIS FOR BEARINGS IS GRID NORTH OF THE OH COORDINATE SYSTEM, NOR (2011).         DHI0811, 8-1-1, or 1-800-362-2764 Non-members must be called directly)       BENCHMARK MAG NAIL IN GUARD RAIL RIGHT-OF-WAY OF STATE ELEVATION = 1077.68         4216 KARG INDUSTRIAL PKWY KENT, OH 44240 (330) 673-2400		CAMPBELL & A Surveying 3485 Fortuna Akron, 0 (330) 90
Contact Two working Days Before You Dig       IS GRID NORTH OF THE OF COORDINATE SYSTEM, NOR (2011).         BENCHMARK (2011).       BENCHMARK MAG NAIL IN GUARD RAIL RIGHT-OF-WAY OF STATE         DHI0811, 8-1-1, or 1-800-362-2764 Non-members must be called directly)       ELEVATION = 1077.68         4216 KARG INDUSTRIAL PKWY KENT, OH 44240 (330) 673-2400		
(2011). Before You Dig DHI0811, 8–1–1, or 1–800–362–2764 Non-members must be called directly) Alternative called directly 4216 KARG INDUSTRIAL PKWY KENT, OH 44240 (330) 673-2400		IS GRID NORTH OF THE OF
Non-members must be called directly)       ELEVATION = 1077.68         4216 KARG INDUSTRIAL PKWY         KENT, OH 44240         (330) 673-2400		(2011). <b>BENCHMARK</b> MAG NAIL IN GUARD RAIL
wohlwend KENT, OH 44240 (330) 673-2400		ELEVATION = 1077.68
	KENT, OH 442	240



Hz, 1 phase

15 gpm at 0 psig (0.95 lps at 0 m)



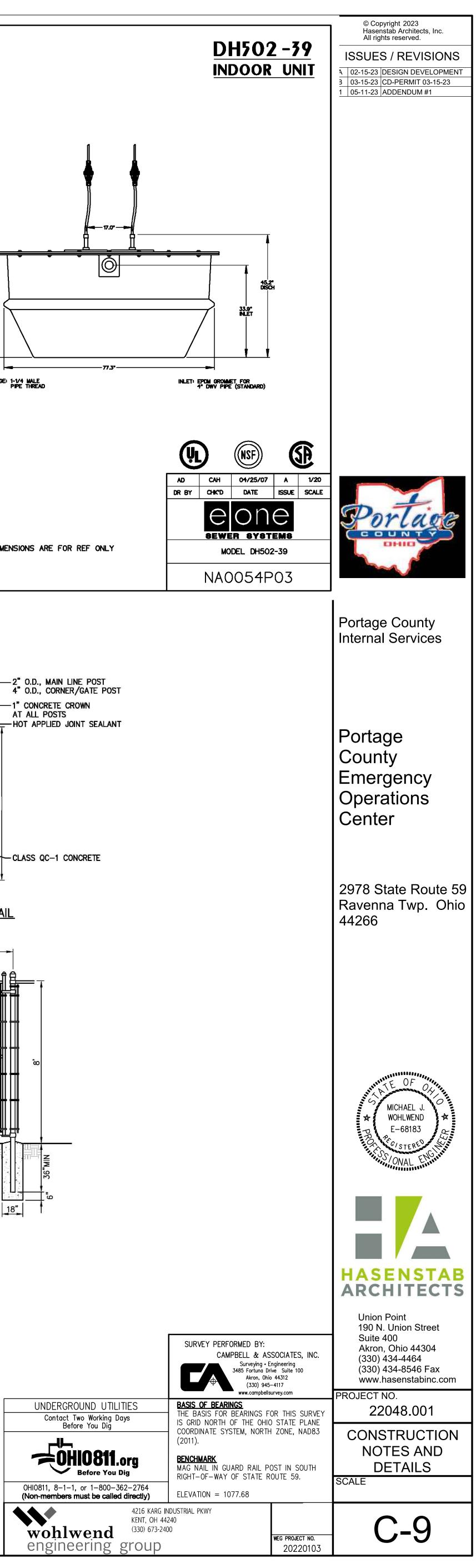


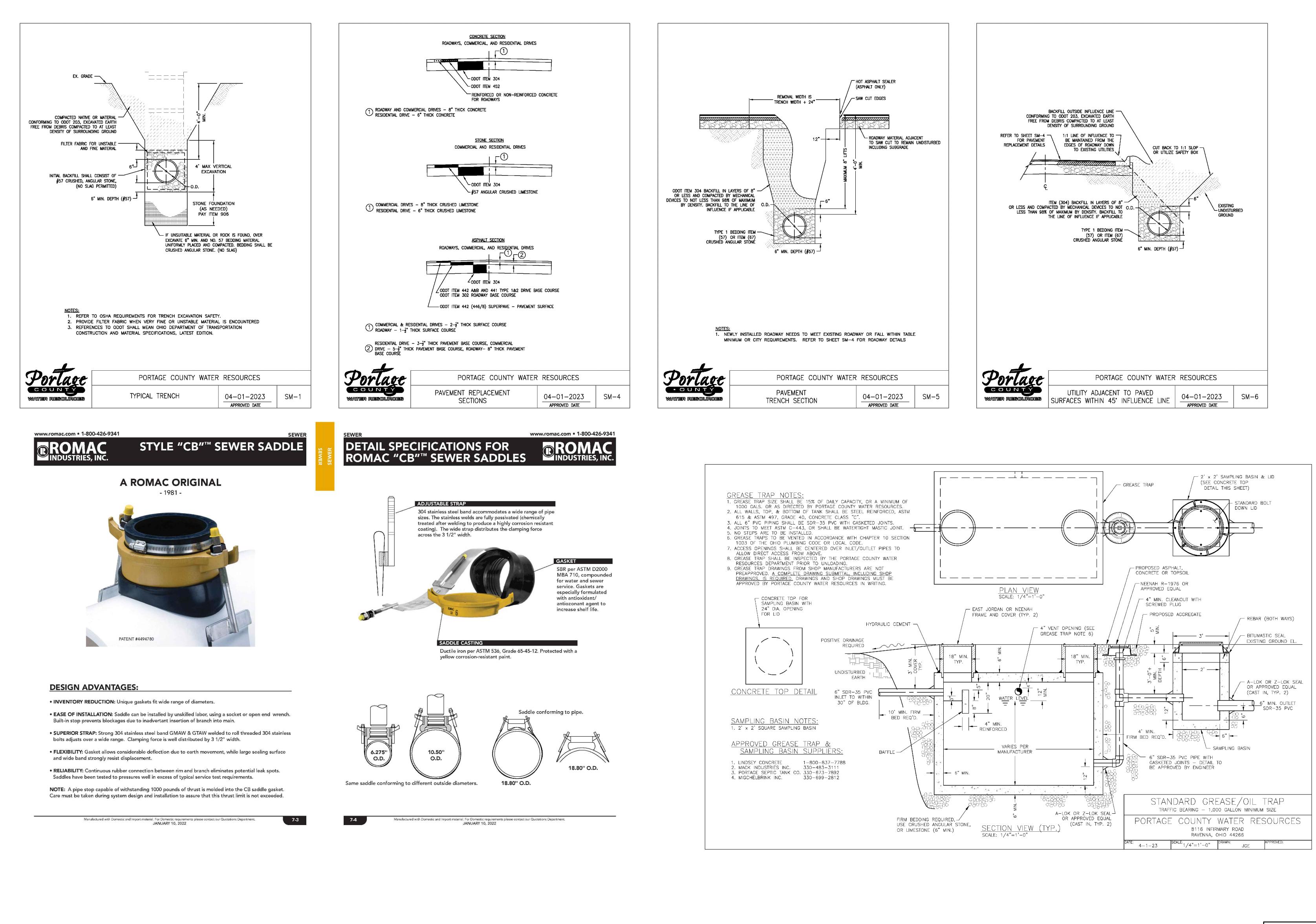
ELEVATION AT CORNER POST

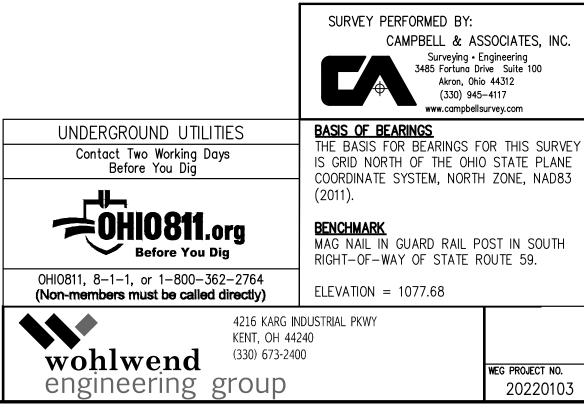
18"

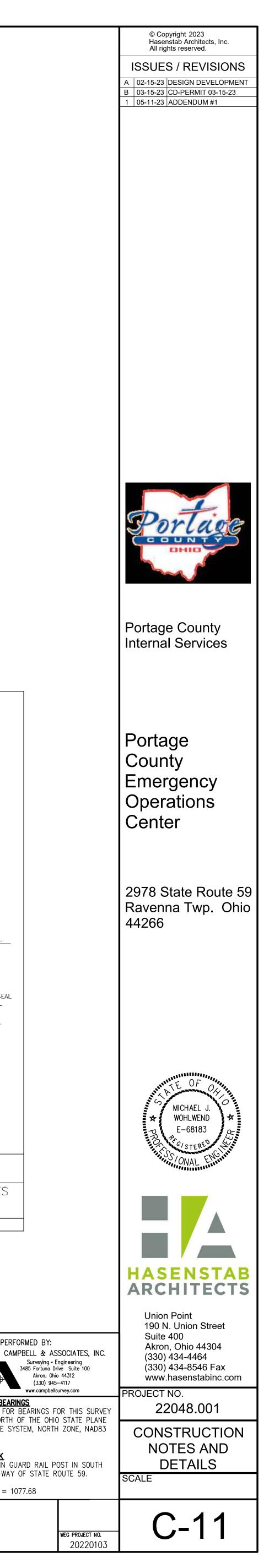
SINGLE GATE DETAIL

# CHAIN LINK FENCE DETAILS NO SCALE

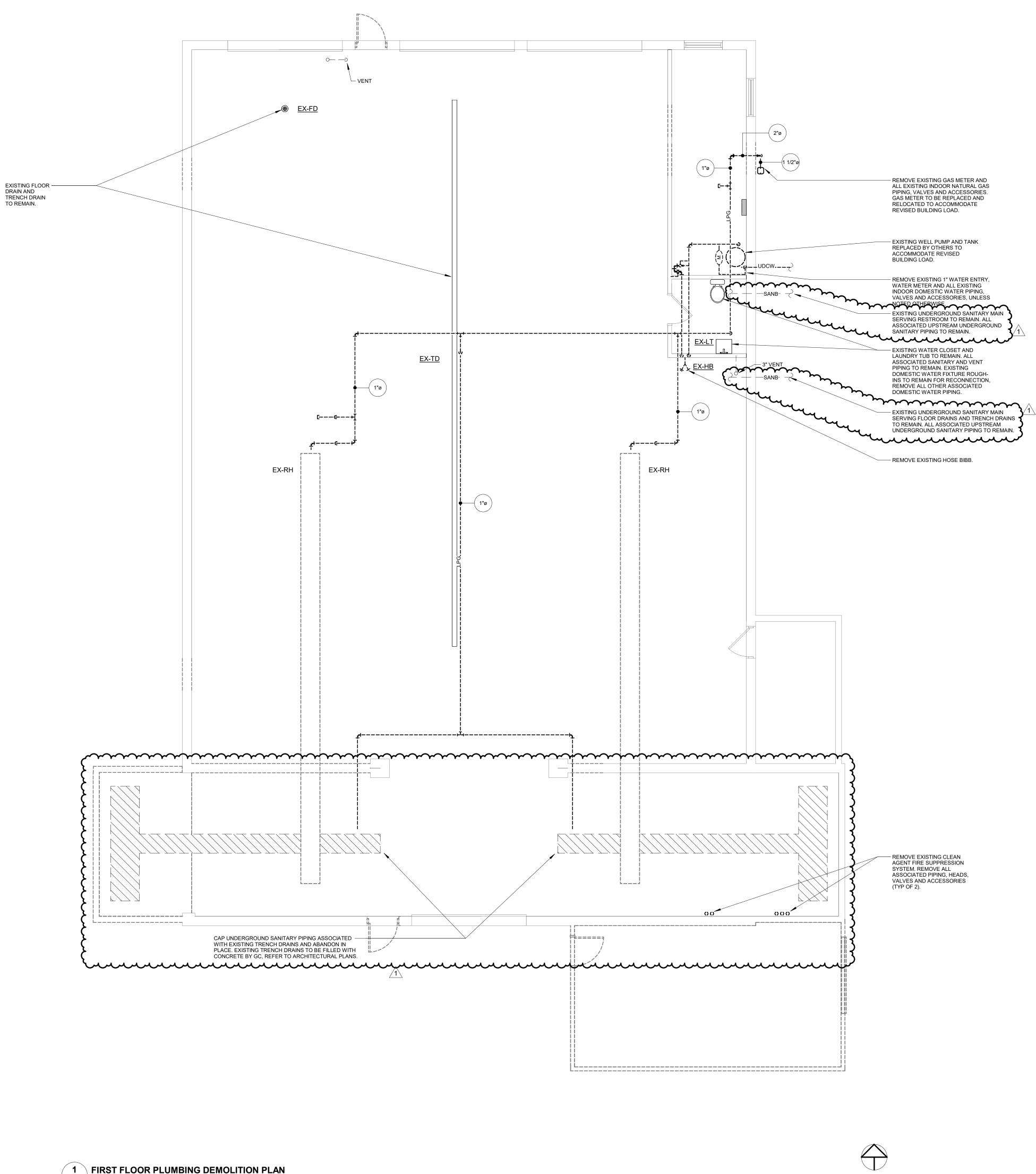




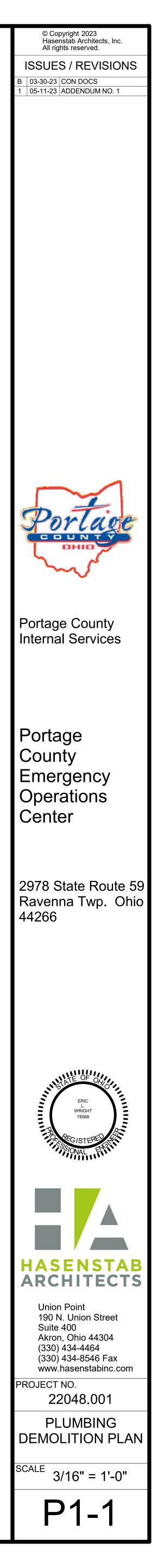




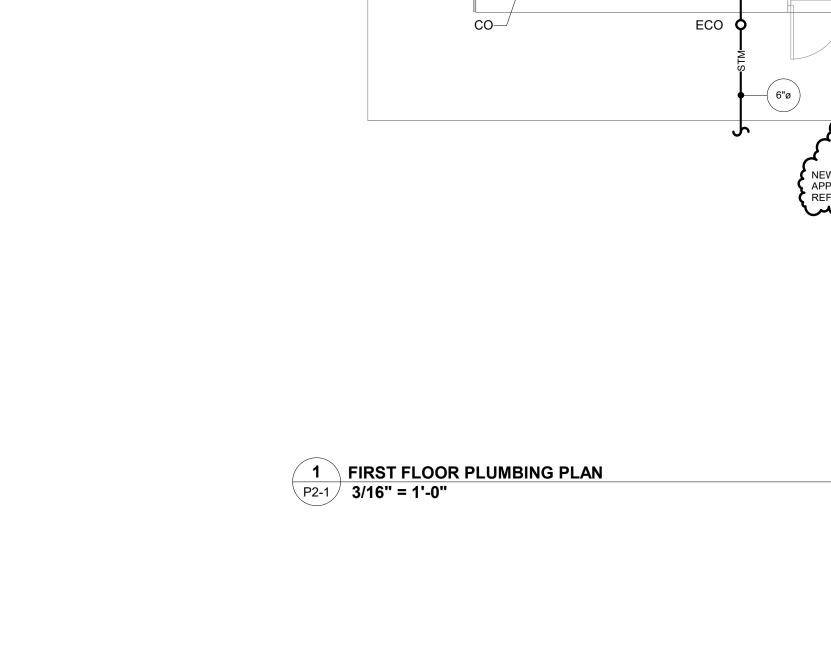
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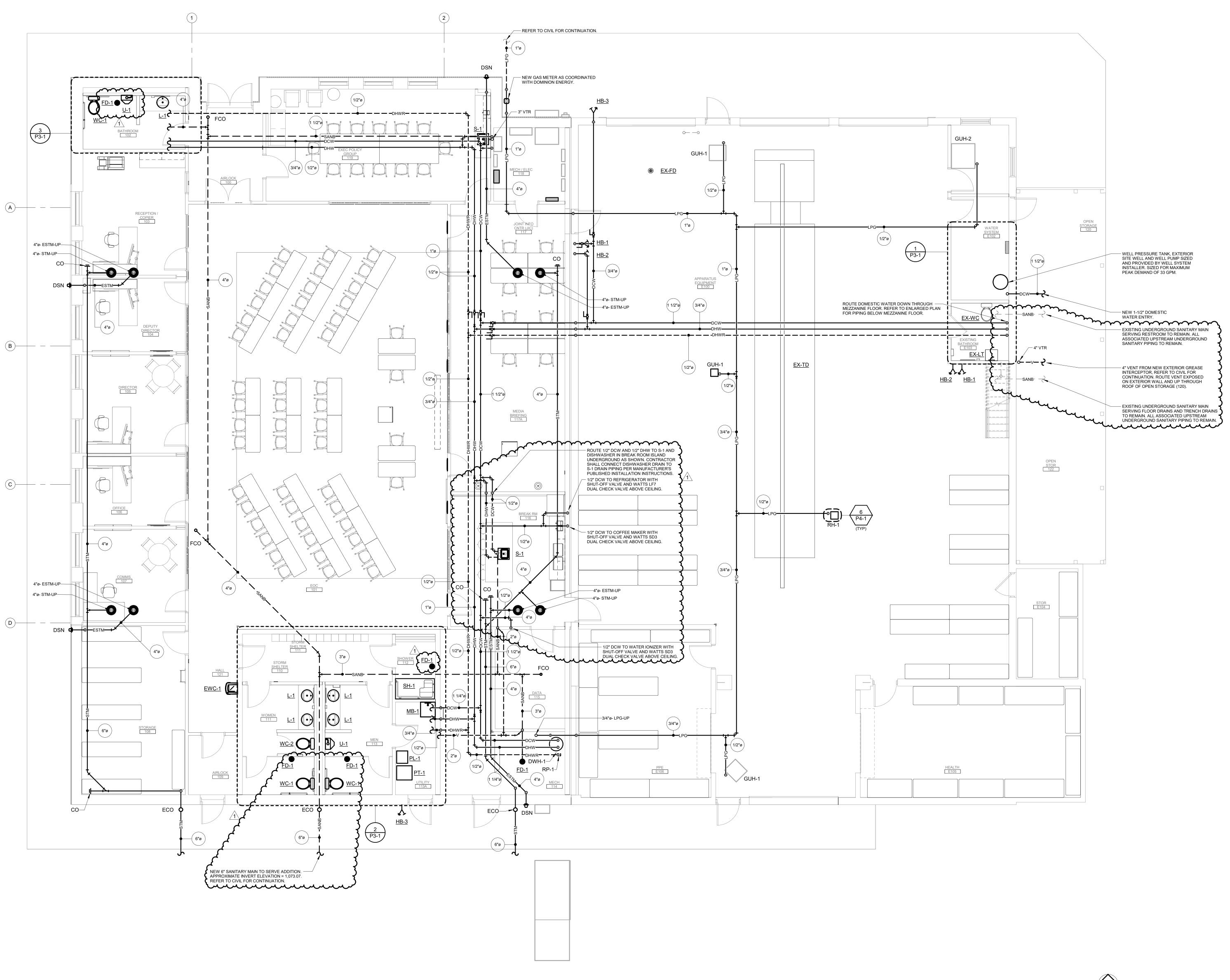


1FIRST FLOOR PLUMBING DEMOLITION PLANP1-13/16" = 1'-0"



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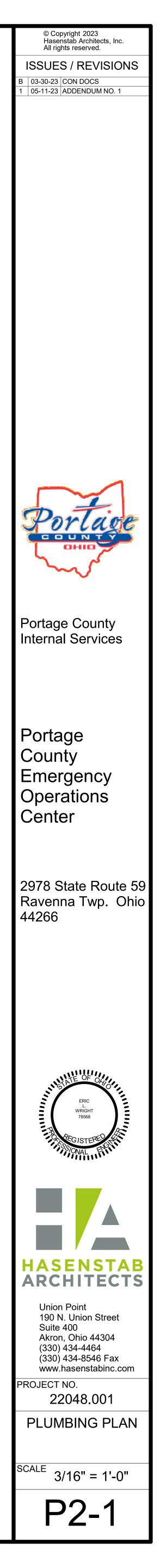


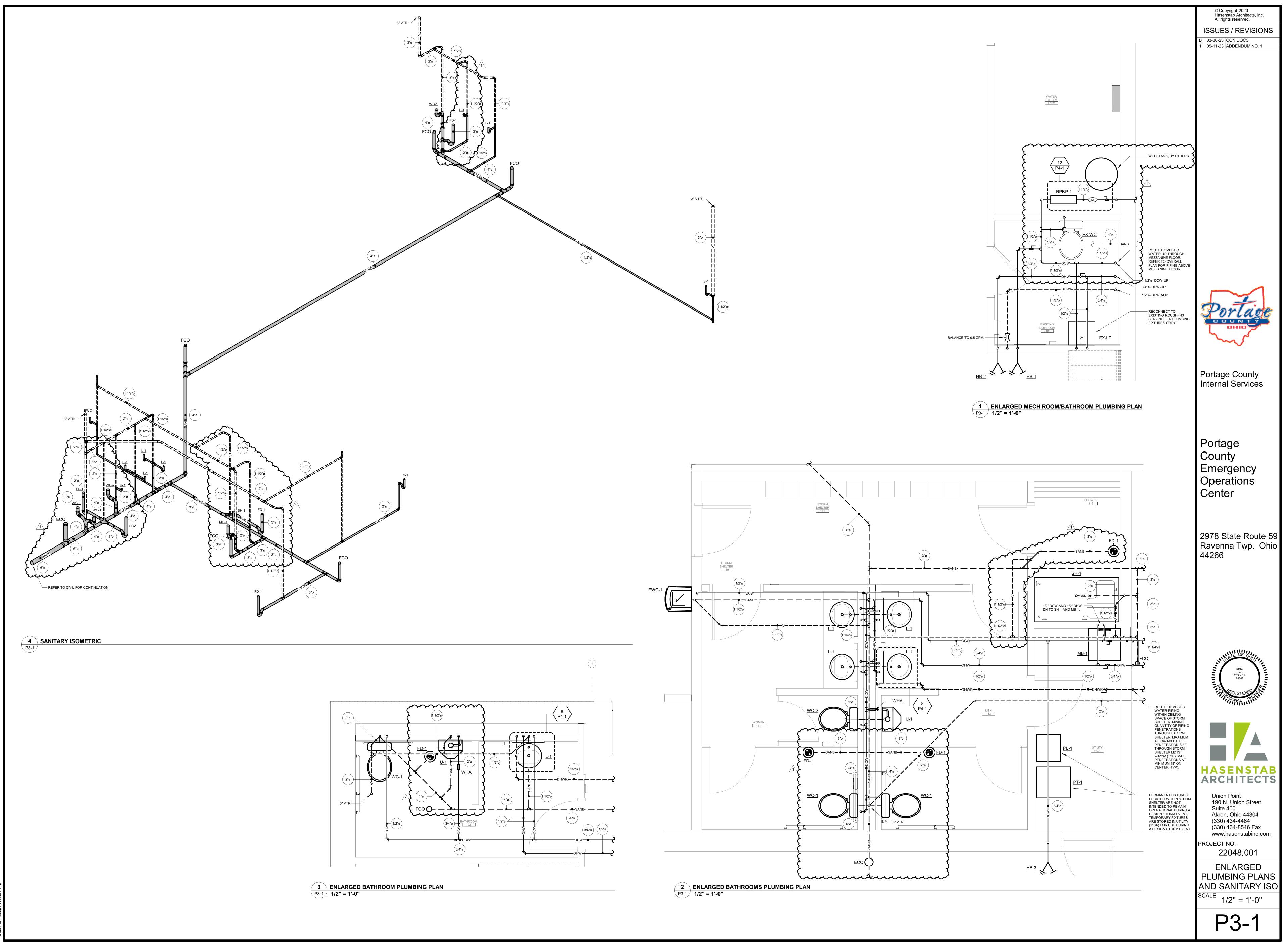


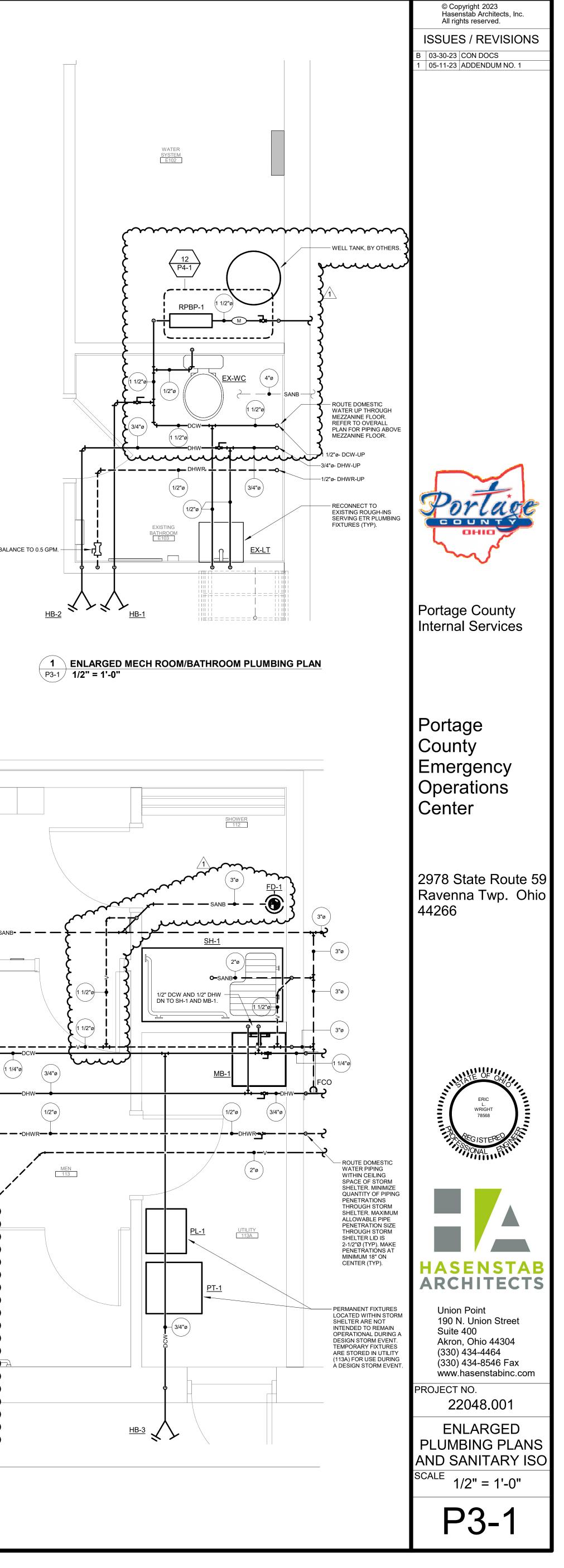
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		SHOWER SCH		
<b>REMARKS:</b> 1. PROVIDE WITH OPTIONAL	FOLD-UP SEAT. GRAB BAR AND SOAP DISH.			
MARK TYPE	FIXTURE MODEL	DRAIN MFR MODEL NTEGRAL CHICAGO FAUCETS 151-ACP	HEAD OUTLET MFR	
	REMARKS:		MOUNTED LAVATORY SCHE	DULE
	MARK TYPE	MIXING VALVE: LEONARD VALVE 170-LF OR FIXTURE MFR MODEL MFR - BY GC BY GC BY GC CHICAGO FAUCE	FAUCET FAUCET HANDLES	CONNECTIONSOUTLETDHWDCWSANVENTREMARKSLAMINAR 0.5 GPM1/2"1/2"1-1/2"1-1/2"1
	ARK TYPE N S-1 INTEGRAL COUNTER - BY GC B	E MFR MODEL STRAINER MFR		NDLES OUTLET DHW DCW SAN VENT ISTBLADE LAMINAR 1.5 GPM 1/2" 1/2" 1-1/2" 1-1/2"
	MARK	PI	ELECTRIC WATER COOLER S	SCHEDULE         ONNECTIONS       ELECTRICAL         SAN       VENT       VOLTS/PHASE       FLA       POWER SUPPLY
	EWC-1	ELKAY LZS8WSLK 8 GPH 8	ED URINAL (FLUSH VALVE) S	1-1/2" 1-1/2" 115/1 6 PLUG-IN CORD
	MARK MFR	ALVE HANDING WITH ARCHITECT. FIXTURE MODEL MGARD WASHBROOK 6590.001EC SLOA	VALVE R MODEL FLOV	CONNECTIONSADAW RATE (GPF)DCWSANVENTCOMPLIANTREMARK0.53/4"2"1-1/2"YES1
			MOUNTED FLUSH TANK WA	
			SEAT           ODEL         MFR	CONNECTIONS     ADA       MODEL     DCW     SAN     VENT     COMPLIANT     REMARKS
			2467.016     AMERICAN STANDARD       2462.016     AMERICAN STANDARD	5901.1         1/2"         4"         2"         YES         1           5901.1         1/2"         4"         2"         NO         1
		ITH HOSE AND HOSE BRACKET, MODEL 832 ITH WALL GUARDS, MODEL MSG2424.	MOP BASIN SCHEDULE	<u>-</u>
	MARK TYP	FIXTURE		CONNECTIONSOUTLETDHWDCWSANVENTREMARKSHOSE THREAD1/2"1/2"3"1-1/2"1, 2
REMAR	KS:	WATER HEAT	ER (TANK) SCHEDULE	
2. FURI	NISH WITH RELIEF VALVE. NISH WITH CONDENSATE NEUTRALIZAT NISH WITH CONCENTRIC VENT KIT.		WATER	
MARK DWH-1	MFR MODEL TYPE FUE A.O. SMITH BTX-100 TANK NATU		ACITY (GAL) MAX GPH (@90 RISE) E 129.0	EWT (°F)LWT (°F)VOLTS/PHASEDISCONNECT BYREMARKS45135120/1EC1, 2, 3
		MARK MFR MODEL TY	RECIRCULATOR PUI	HEAD ELECTRICAL
		RP-1 TACO 006B-IFC CART	. ,	8 1/40 3,250 120/1 EC
			PORTABLE FIXTURES	SCHEDULE QUIRED FOR USE DURING THE DESIGN STORM EVENT.
	2	2. FURNISH WITH ALL WATER, CHEMICALS, MARK MFR MODEL	TOILET PAPER, ETC AS REQUIRED F	FOR USE DURING THE DESIGN STORM EVENT.           DIMENSIONS           ERATION         WIDTH (IN)         DEPTH (IN)         HEIGHT (IN)         REMARKS
		PL-1POLYJOHNPSW3-1000PT-1POLYJOHNMF02-1000		OT PUMP         18         20         62         1           OT PUMP         23         25         22         2
		PORTAGE COUNTY WATER RESC 1. ALL WATER METERS SHALL BE	OURCES DEPARTMENT NOTES: E PROVIDED BY MASTER METER,	REDUCED PRESSURE BA
		ROAD, COLUMBUS, OHIO 43207, F METER VENDORS ARE PROHIBIT 2. THE COMMERCIAL WATER MET METER MODEL OCTAVE ULTRAS	TED. 1 TER SHALL BE 2" DIAMETER MASTER 2	REMARKS: I. FURNISH WITH AIR GAP ACCESSORIES. 2. FURNISH WITH FULL PORT QT BALL VALVES.
		DEMAND AND BE LOCATED WITH 3. AFTER METER INSTALLATION, THE OWNER AND SCHEDULE PO FOR INSTALLATION APPROVAL A	HIN THE BUILDING STRUCTURE. THE CONTRACTOR SHALL NOTIFY ORTAGE COUNTY WATER RESOURCES AND CUSTOMER START-UP. DIMETER INSTALLATION REQUESTS E COUNTY WATER RESOURCES	MARKMANUFACTURERMODELMAX FLOW (GPM)RPBP-1ZURN975XL2100
			r	FROM WELL SYSTEM, BY
			RELIEF VALVE BY WATER MANUFACTURER. PIPE DI: TO 6" AFF, SUPPORT PIPI INDEPENDENT OF VALVE.	CHEATER SCHARGE NG MAX. 3'-0" AFF
ATER HEATER VENT AND			BALL VALVE (TYP)	
HECK VALVE				A 12 MAIN REDUCED PRESSURI P4-1 NTS
XPANSION TANK, SIZED AND INSTALLED PER /ATER HEATER MANUFACTURERS UBLISHED INSTALLATION INSTRUCTIONS.	<u>ک</u> پل		I	
CD TRAP FURNISHED BY WATER HEATER MANUFA PROVIDE 3/4" PVC MALE THREAD SPOOL PIPE IN OF CONNECT 1" FLEXIBLE POLYPROPYLENE VIA STAIN STEEL CLAMP. PROVIDE FLOOR SUPPORTS TO ELE TRAP DISCHARGE ABOVE CONDENSATE NEUTRALI		WATER HEATER (SET FOR 130°F)	COUPLING (TYP). 	PRESSURE GAUGE COMMON TO - SUCTION AND DISCHARGE SIDES O PUMP WITH 3/8" BALL SHUTOFF VA
ACIDIC CONDENSATE DRAIN PIPING SHALL BE CLEA FLEXIBLE POLYPROPYLENE WITH STAINLESS STEE CLAMP CONNECTIONS.	\R\ ⊥ <b>\</b>		WATER HEATER WATER HEATER HEAT EXCHANGER DR WITH BALL VALVE AND HOSE CONNECT ANCHOR WATER HEATER TO CONCRET	
			· · · · · · · · · · · · · · · · ·	I
			EXTEND 3/4" DRAIN TO NEAREST FLOOR DRAIN WITH AIR GAP. WATER HEATER DRAIN PAN.	DWH

File Dat

MIXING VALVE CONNECTIONS
MFR MODEL DHW DCW SAN VENT REMARKS
GO FAUCETS   1905-VOCCP   1/2"   1/2"   2"   1-1/2"   1, 2
CHEDULE
CONNECTIONS           ES         OUTLET         DHW         DCW         SAN         VENT         REMARKS
EVER         LAMINAR 0.5 GPM         1/2"         1/2"         1-1/2"         1-1/2"         1
CONNECTIONS
HANDLESOUTLETDHWDCWSANVENT4" WRISTBLADELAMINAR 1.5 GPM1/2"1/2"1-1/2"1-1/2"
ER SCHEDULE
CONNECTIONS ELECTRICAL
DCWSANVENTVOLTS/PHASEFLAPOWER SUPPLY1/2"1-1/2"1-1/2"115/16PLUG-IN CORD
VE) SCHEDULE
CONNECTIONS         ADA           FLOW RATE (GPF)         DCW         SAN         VENT         COMPLIANT         REMARKS
0.5 3/4" 2" 1-1/2" YES 1
WATER CLOSET SCHEDULE
T CONNECTIONS ADA
MODEL         DCW         SAN         VENT         COMPLIANT         REMARKS           ARD         5901.1         1/2"         4"         2"         YES         1
ARD 5901.1 1/2" 4" 2" NO 1
DULE
CONNECTIONS
OUTLET         DHW         DCW         SAN         VENT         REMARKS           3/4" HOSE THREAD         1/2"         1/2"         3"         1-1/2"         1, 2
DISCONNECT
SE)         EWT (°F)         LWT (°F)         VOLTS/PHASE         BY         REMARKS           45         135         120/1         EC         1, 2, 3
<u>  100   120/1   EC   1,2,3</u>
R PUMP SCHEDULE
HEAD         ELECTRICAL           PRESSURE (FT)         HP         RPM         VOLTS/PHASE         DISCONNECT BY
8 1/40 3,250 120/1 EC
RES SCHEDULE
S REQUIRED FOR USE DURING THE DESIGN STORM EVENT. RED FOR USE DURING THE DESIGN STORM EVENT.
DIMENSIONS
OPERATIONWIDTH (IN)DEPTH (IN)HEIGHT (IN)REMARKSFOOT PUMP1820621
FOOT PUMP 23 25 22 2

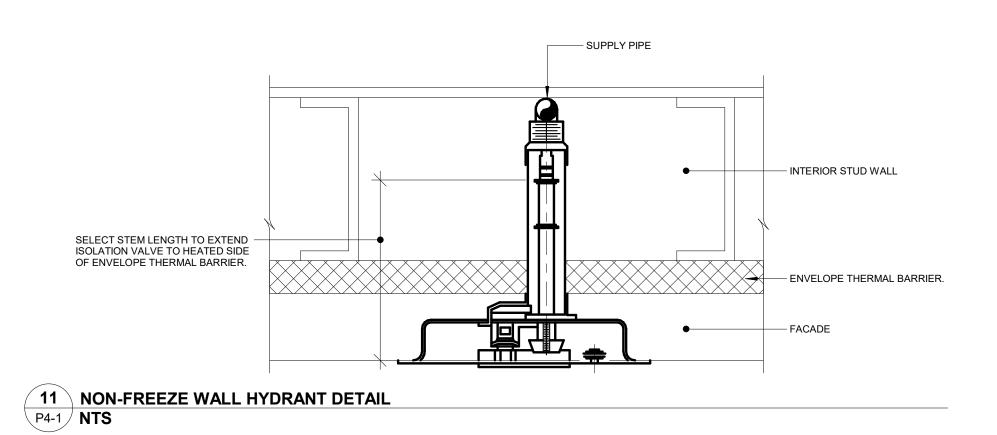
ROOF DRAIN SCHEDULE										
MARK	MARK MFR MODEL STRAINER SIZE STORM SIZE									
RD/ERD	-1 JAY R SMITI	H 1800	0 15" DIA.	4	"					
	H	OSE BIE	3B SCHEDULE							
			1							
				CONNE	CTIONS					
MARK	MFR	MODEL	LOCATION	DCW	DHW					
HB-1	JAY R. SMITH	5672	INTERIOR, EXPOSEI	D 1/2"	-					
HB-2	JAY R. SMITH	5672	NTERIOR, EXPOSED	) -	1/2"					
HB-3	JAY R. SMITH	5619	EXTERIOR	3/4"	-					

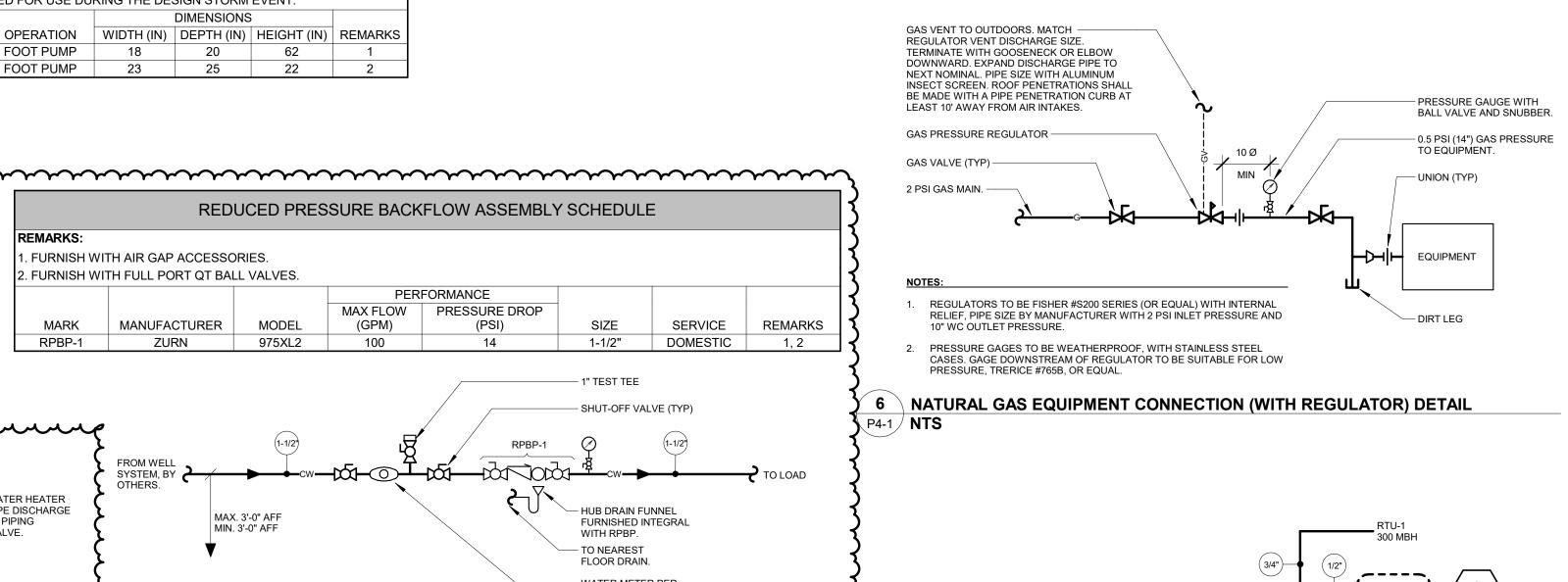
REMARKS	3:
1. FURNIS	H WITH TRAI
MARK	MANUFACT
FD-1	JAY R. SM
FD-1	JAY R. SM
FD-1	JAY R. SM
FD-1	JAY R. SN
FD-1	JAY R. SN

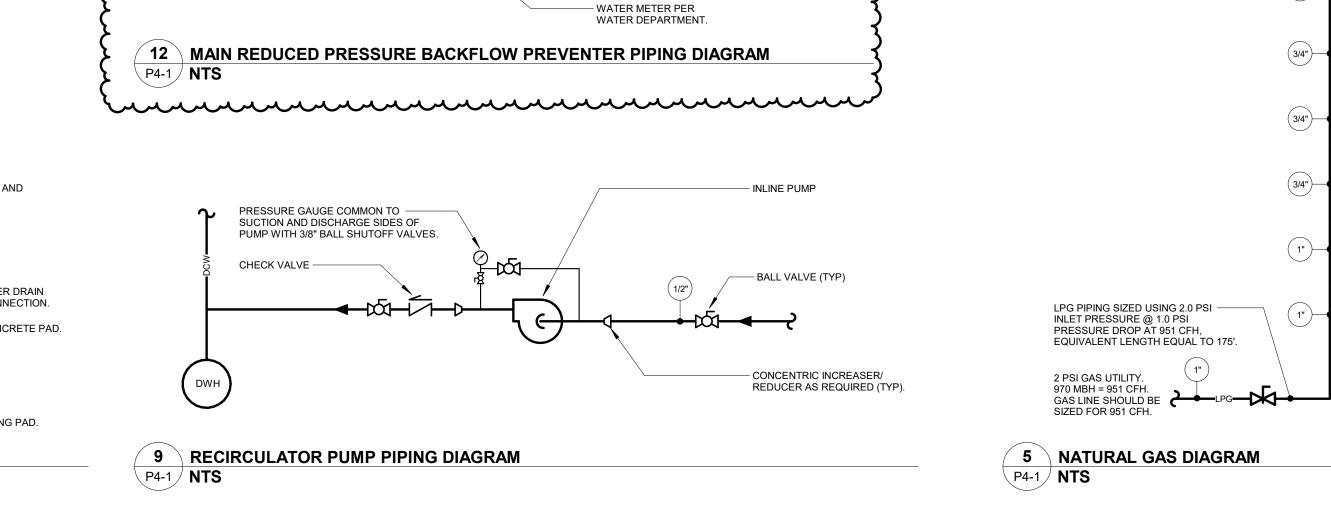
MISCELLANEOUS PLUMBING SCHEDULE									
MARK	MANUFACTURER	MODEL	CONNECTION SIZE	REMARKS					
CO	JAY R. SMITH	4420-CI	MATCH PIPE SIZE	CLEANOUT					
DSN	JAY R. SMITH	1775	MATCH PIPE SIZE	DOWNSPOUT NOZZLE					
ECO	NEENAH	R-1970	MATCH PIPE SIZE	EXTERIOR CLEANOUT					
FCO	JAY R. SMITH	4031	MATCH PIPE SIZE	FLUSH WITH FLOOR CLEANOUT					
WHA	JAY R. SMITH	5005	3/4"	WATER HAMMER ARRESTOR					
			1						











SIZE

1-1/2"

1" TEST TEE

SHUT-OFF VALVE (TYP)

- HUB DRAIN FUNNEL

WITH RPBP. — TO NEAREST FLOOR DRAIN.

FURNISHED INTEGRAL

(1-1/2'

SERVICE

REDUCED PRESSURE BACKFLOW ASSEMBLY SCHEDULE

PERFORMANCE

(GPM)

MAX FLOW PRESSURE DROP

(PSI)

RPBP-1

