



City of Willowick
PLAN REVIEW BOARD

Thursday, November 10, 2022 at 3:00 PM
Willowick Building & Service Center

ADA NOTICE

In compliance with the Americans with Disabilities Act, individuals needing special accommodations (including auxiliary communicative aids and services) during this meeting should notify the City of Willowick at 440-585-3700 at least three working days before the meeting.

AGENDA

1. **Call meeting to order**
2. **Roll call**
3. **Approval of minutes**
 1. Minutes - October 13, 2022
4. **New business**
 1. Cleveland Pizza / Six City Tavern (Final Plans) - located at 31222 Vine Street
5. **Public portion**
6. **Old business**
7. **Miscellaneous**
8. **Adjournment**



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PLAN REVIEW BOARD
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ADA NOTICE

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MINUTES

1. Call meeting to order

Roll call

PRESENT

Chief Brennan

Chief Turner

Mr. Lynn

Mr. McLaughlin

Mr. Lazor

Approval of minutes

September 22nd, 2022

Motion made by Mr. McLaughlin, Seconded by Mr. Lazor to approve September 22nd, 2022 meeting minutes.

Voting Yea: Chief Brennan, Chief Turner, Mr. Lynn, Mr. McLaughlin, Mr. Lazor

New Business

JD's All in One Customs - Located at 1101 E. 305th Street

Chief Brennan indicated that per the letter of intent submitted this business will be used as a hobby space working on friend's cars and that his wife would be making t-shirts, that it would not be for running a business. As it is a commercial building, and they will be occupying the space they are required to have a Commercial Establishment license.

Motion made by Mr. Lazor, Seconded by Chief Brennan to approve JD's All in One Customs.

Voting Yea: Mr. Brennan, Mr. Turner, Mr. Lynn, Mr. McLaughlin, Mr. Lazor

Touched by Keyz Essentials, LLC - Located at: 1241 E. 305th Street

KiKi Hardy was present representing her business Touched by Keyz Essentials, she explained that she has been braiding hair since a young age, which is a service she will be providing at her establishment.

She also stated that the wellness portion she has been doing for the past 7 years having to do with crystals, herbal supplements and healing.

Mike Lazor asked if she is expanding her business or if this is her first business, she stated that this is her first location.

Motion made by Mr. Lazor, Seconded by Mr. McLaughlin to approve Touched by Keyz Essentials, LLC
Voting Yea: Chief Brennan, Chief Turner, Lynn, Mr. McLaughlin, Mr. Lazor

Break Time, LLC - Located at: 1269 E. 305th Street

Claudia Madden was present representing Break Time LLC.

Chief Brennan indicated that this is the old Karate establishment and stated that Break Time, LLC is a smash room. Chief Brennan stated that as we have not had this type of business in our city, can she please explain the nature of the business, what types of items customers would be breaking and what they would be breaking the items with. She stated that the establishment is compiled of 3 different rooms and the purpose of the business is to release stress. The participant will be wearing safety attire, such as helmet, gloves, boots and a one-piece safety suit. They then will go into a designated room and break items such as, glassware, TV's, microwaves or a file cabinet by using tools such as hammer, sledgehammer and a crowbar. They will also have team building for corporate offices. The establishment will also have a paint room where the participants would use a small paint pellet gun and design with paint on canvases.

Mike Lazor asked if this would be individuals breaking items or would groups be breaking items at the same time. Claudia stated that in 2 of the rooms can accommodate a maximum of 2 people at a time due to size of the room and safety, then there is another larger room that would accommodate 4 people. The participants will be taking turns breaking the items they will not be doing so at the same time.

Don Lynn asked if there will be a monitor on site at all times and Claudia advised that there will be 2 attendants on site at all times. She also stated that there will be cameras installed as well to monitor activity. Don Lynn asked what the decor of the walls, Claudia advised that it is press board plywood on all the walls.

Chief Brennan asked due to the nature of the business and the debris that will come from the business, will there be a dumpster for the establishment and Claudia stated they will have a dumpster in the back of the building.

Chief Brennan explained to Claudia that due the nature of the business under ordinance 1145.03 under uses, that establishment is zoned in a retail district and while looking at the main uses permitted in that district typically, they would be retail establishments such as office professionals uses for medical offices, dining facilities, grocery stores and was trying to determine where in the ordinance this business would fall under in that district. Claudia responded stating that they will have items for sale such as shirts, hats and games. Chief Brennan stated that as the primary type of the business based on the letter of intent is to smash items, so the business is like a service. Claudia responded saying that yes that is a correct statement. Chief Brennan advised that with that and trying to find this type of business under this ordinance under retail uses there is a section under service establishments that this business would fall under but there is a different approval process for this type of business, he explained that typically this type of business would need to go through the Planning Commission and then get approval from City Council. He advised that he spoke to the Law Director with regards to the definition of this business and it is going to fall under a service establishment, the Plan Review Board can approve the business

pending approval from Planning Commission and City Council. He stated that he will give her a call to explain the next steps of the process for approval and stated she will have to attend a Planning Commission meeting and then once approved go to the City Council meeting.

Chief Brennan advised that Break Time LLC has been approved by Plan Review Board pending approval from Planning Commission and City Council and he would contact her to provide the next steps.

Mike Lazor asked that if things were to get out of hand what is the businesses contingency plan. She stated naturally they would contact the police however Mike Lazor asked if they will anyone in house to assist with something if needed. Claudia stated that they are not looking to attract a rowdy crowd, you have to be 16+ to participate and from 16 years old to 18 years old the participants have to be present with a parent, so she does not expect a lot of rowdy occurrences. Mike Lazor asked if there are any other business like this and she stated that there is one Magoadore and one in Kent.

Chief Turner asked that since she mentioned team building, is there going to be alcohol allowed to be brought in and Claudia stated there is no alcohol allowed in the establishment. He also asked if there are going to liability waivers that need to be signed and Claudia stated that yes everyone will have to sign a waiver to participate and then the parent will have to sign a waiver for the 16–18year old participants.

Motion made by Chief Brennan, Seconded by Chief Turner to approve Break Time, LLC pending approval from Planning Commission and City Council.

Voting Yea: Chief Brennan, Chief Turner, Mr. Lynn, Mr. McLaughlin, Mr. Lazor

The Baller Zone, LLC - Located at 29900 Lakeshore Blvd.

Theresa was present representing The Baller Zone, LLC. Chief Brennan advised that this is the 777-entertainment device existing business that Theresa is purchasing, they have submitted all the required information per our ordinance, this includes the machines, where they are going to be located, the owner Information, hours of operation which are remaining the same, a floor plan showing again that everything will be remaining the same, a letter of intent from the current owners and then a letter of intent from the new owner, Theresa.

Natalie Antosh asked Theresa if she lives out of state because on the information submitted it states that she does. Theresa responded stating that she does live out of state however she has employees that live here that will be running the business and that she is able to get on a flight whenever needed.

Chief Brennan asked if they will be changing the signage of the business and Theresa stated they will not be changing anything.

Natalie Antosh asked what brought her attention to this business in the city. She stated that through networking it came across her desk, and she owns multiple businesses in North Carolina and Virginia to include other game rooms, a vape shop and a trucking business so she decided to take this on as well.

Motion made by Chief Turner, Seconded by Mr. McLaughlin to approve The Baller Zone, LLC

Voting Yea: Chief Brennan, Chief Turner, Mr. Lynn, Mr. McLaughlin, Mr. Lazor

Public portion

Public portion was opened and closed as no one was present.

Old business

Miscellaneous

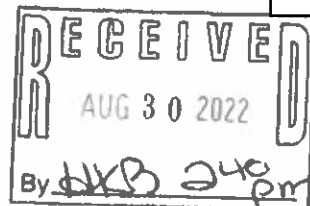
Adjournment - Meeting adjourned at 3:23pm

Motion made by Mr. Lazor, Seconded by Chief Turner.

Voting Yea: Chief Brennan, Chief Turner, Mr. Lynn, Mr. McLaughlin, Mr. Lazor



**CITY OF WILLOWICK PLAN REVIEW BOARD
APPLICATION FOR PERMIT TO OCCUPY FOR
BUSINESS, COMMERCIAL, INDUSTRIAL, ETC.
YOU MUST FILL OUT ENTIRE APPLICATION
440-516-3000**



PERMIT FEE: \$60.00

DATE: 08/31/2022Location of Occupancy: 31222 Vine St Business Name: Cleveland Pizza / Six City Tavern(ADDRESS)
Business Owner's Name & Address: 31222 Vine LLCCITY/STATE/ZIP: 4034 Skiff StTelephone Number: (216) 972-0058 Fax Number: N/A Federal ID Number: 85-3716949
Or Social Security NumberOWNER OF PROPERTY/NAME/ADDRESS/TELEPHONE NUMBER: Derek M Jones6823 Fairfield Rd Painesville, OH 44077SUBMIT NEW DETAILED FLOOR PLAN: yes SQ. FT. HABITABLE FLOOR AREA FOR OCCUPANCY: 6,300 ☒Building Size: 8,169 ☒ Total Number Of Employees: 45Intended Number of Occupants: 60 Total Number of Seating: 100Site Plan With Number of Paved Parking Spaces: yes Hours Of Operation: 10a-12a Mon-SunLetter of Intent: Attached Previous Use: Hardware Store Proposed Use: RestaurantNAME OF PRINCIPAL OR CONTACT PERSON FOR NEW BUSINESS: Derek M. JonesHome Address/City/Zip: 6823 Fairfield Rd 44077 Telephone Number: (216) 972-0058

I hereby certify that the above questions have been answered correctly by me and that the premises will be used for the purpose stated above. Any change in the purpose of occupancy will not be made without approval from Lake County Building, Willowick Fire & Willowick Zoning Department. A final approval by The Willowick Building Dept. (440)516-3000 or a representative thereof, must be complied with before opening of business. I do hereby further agree to maintain the above premises in compliance with the ordinances of the City of Willowick.

Applicant's Signature: [Signature] Date: 08/31/22**Office use only:**

Zoning District: _____ Authorized Occupants: _____

TEMPORARY APPROVED BY: _____ Date: _____

Zoning Dept. Inspected by: _____ DATE: _____

Zoning Permit # _____ Zoning Permit Fee \$ _____

Fire Dept. Inspected By: _____ Date: _____

CITY OF WILLOWICK-APPLICATION FOR COMMERCIAL ESTABLISHMENT LICENSE REQUIRED AFTER APPROVAL

Note* A separate permit is required for all new signs from the Willowick Building Department.

Letter of Intent

31222 Vine, LLC
Cleveland Pizza

31222 Vine St
Willowick, Ohio 44095

August 31, 2022

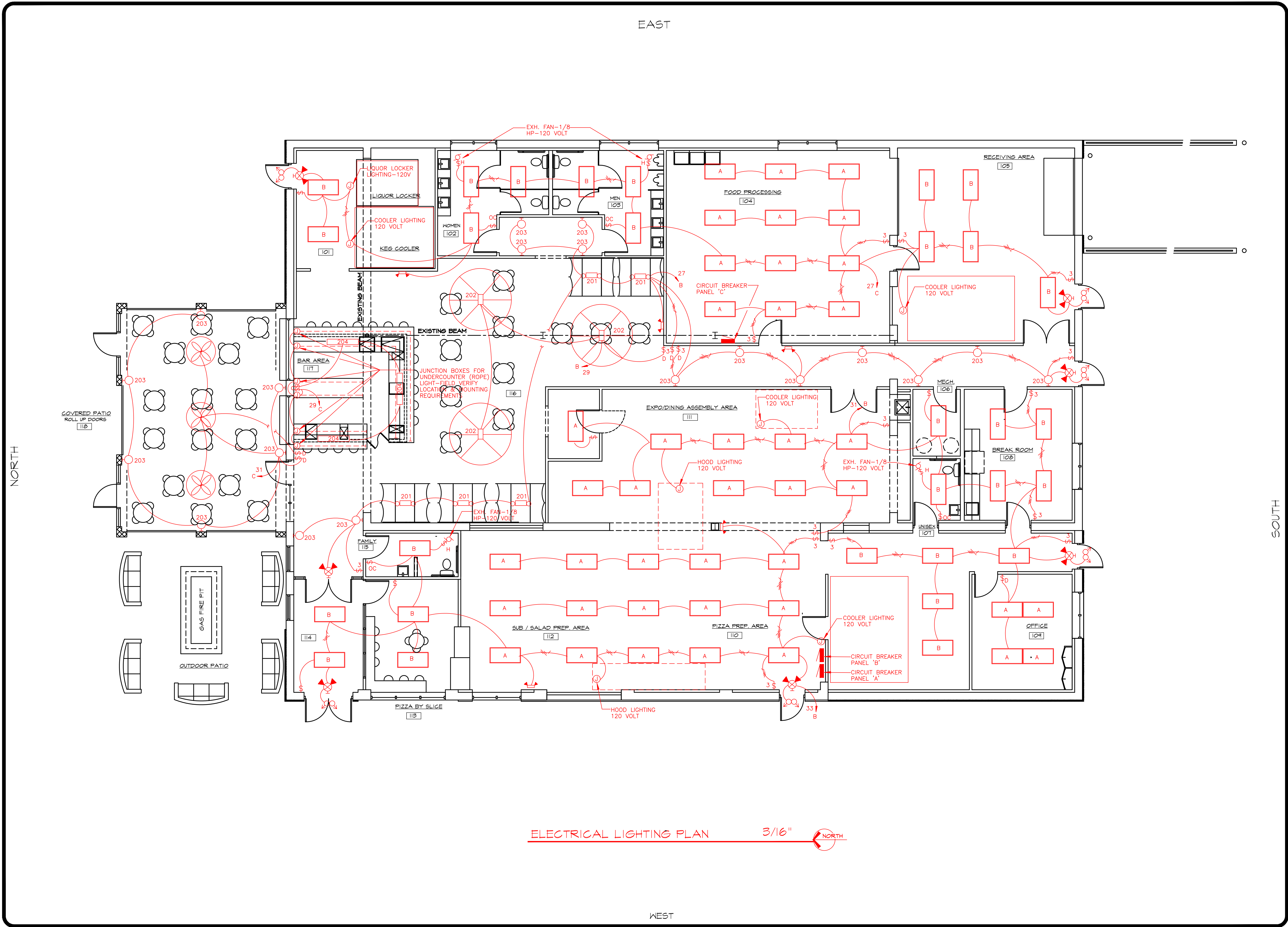
To Whom It May Concern:

It is the intent of 31222 Vine, LLC to occupy the location at 31222 Vine St. The location will undergo extensive renovations as presented in the site plan and all the attached drawings. The location will be the new home of Cleveland Pizza, which is currently located at 28910 Lakeshore Blvd, Willowick, Ohio 44095. We will also be using building space in the back of the building to relocate the Cleveland Pizza Commissary, located at 31128 Vine St, Willowick, Ohio 44095. We will also use space in the front of the building to offer a full-service bar and restaurant, along with a covered and uncovered outdoor patio.

Best Regards,



Derek M. Jones
Owner, 31222 Vine, LLC



REVISIONS	BY

JOHN D. STOPP ARCHITECT

5204 GEORGEANNE CT. MENTOR, OHIO 44060
1-440-357-8554 JSTOPP14@AOL.COM

STATE OF OHIO
JOHN D. STOPP
A-12432
REGISTERED
EXPIRATION DATE 8/30/2023

CLEVELAND PIZZA CO. REMODELING

31222 VINE STREET
WILLOWICK, OHIO

ELECTRICAL LIGHTING PLAN

DRAWN
JOHN D. STOPP
CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

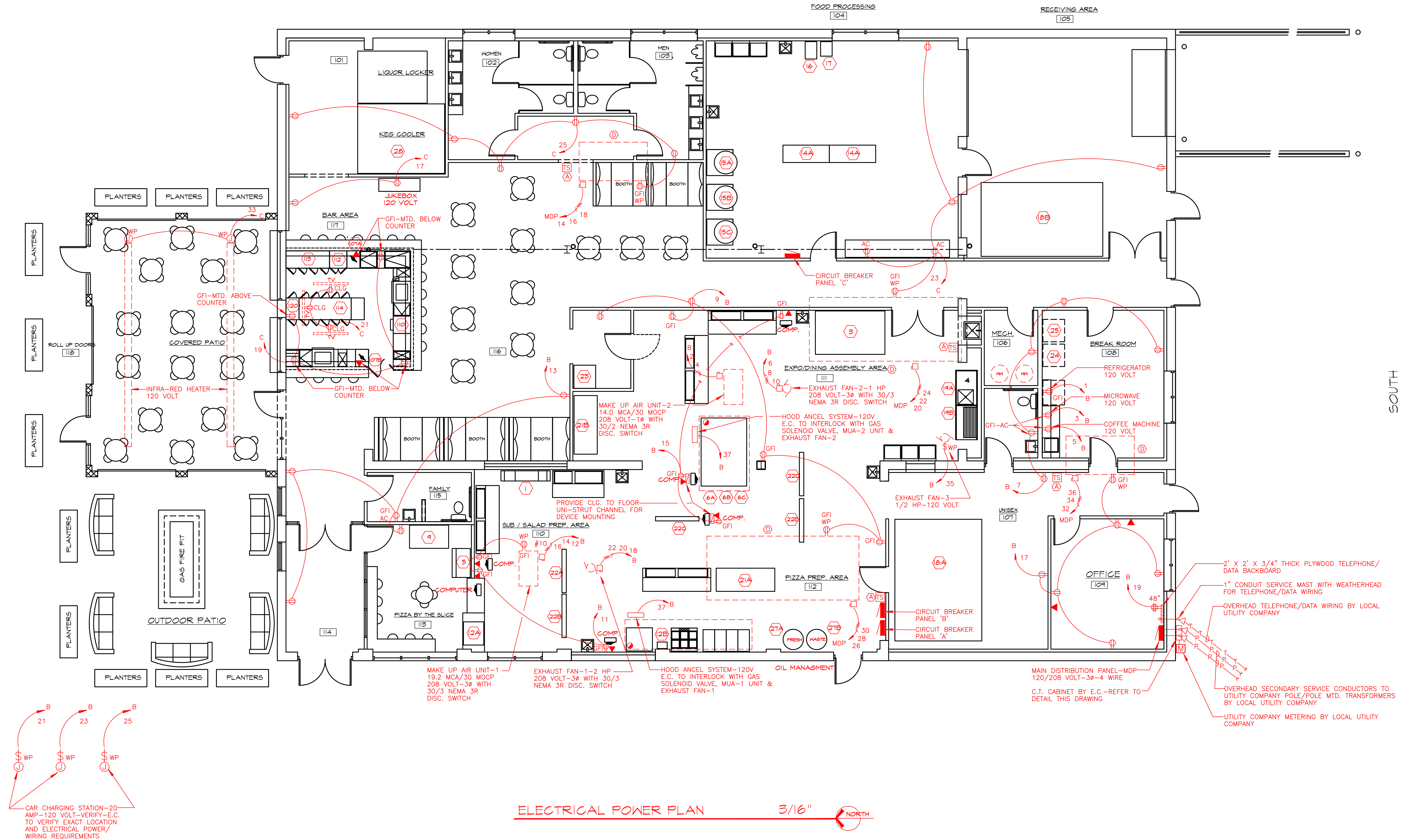
JOB NO.
202044

SHEET

OF 5 SHEETS

NORTH

EAST



ELECTRICAL POWER PLAN

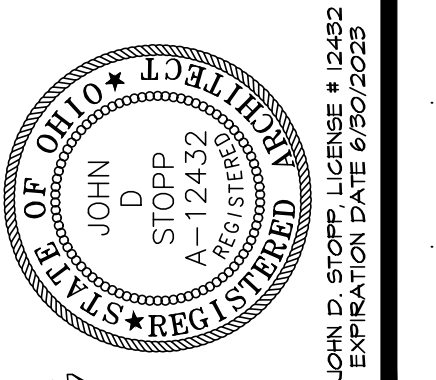
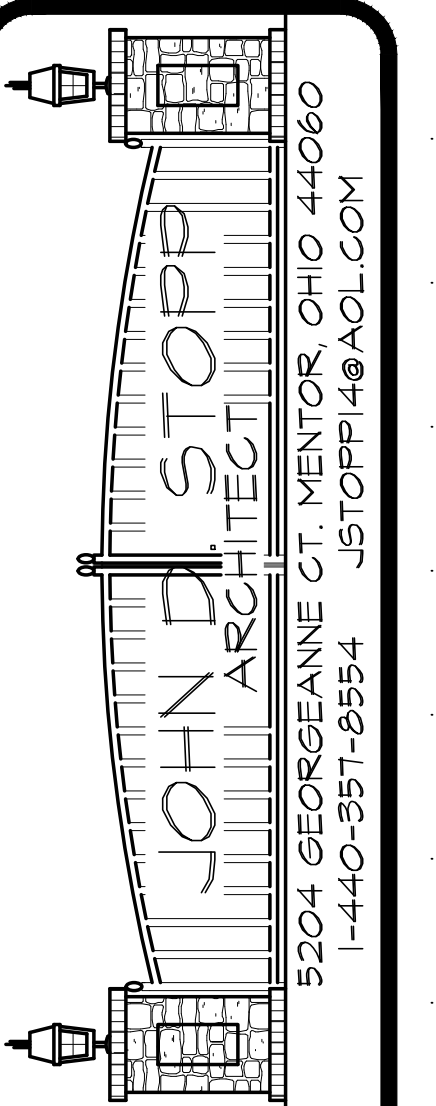
3/16"



WEST

SOUTH

REVISIONS	BY



CLEVELAND PIZZA CO. REMODELING
31222 VINE STREET
WILLOWICK, OHIO
ELECTRICAL POWER PLAN

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/16" = 1'-0"
JOB NO. 202044
SHEET E2

ELECTRICAL FIXTURE SCHEDULE

GROUND-
#10 

NEUTRAL-
SWITCH LEG-
3 A 

WIRE IN CONDUIT. HASH MARKS INDICATE QUANTITY OF WIRE. NUMBER INDICATES WIRE SIZE IF OTHER THAN #12 AWG. ALL UNMARKED CONDUIT SHALL CONTAIN 2-#12 AND 1-#12 GROUND WIRE.

HOMERUN TO PANEL 'A' WITH 2-#12&1-#12 GND.,3/4" CONDUIT MINIMUM U.O.N.-#3 INDICATES CIRCUIT NUMBER IN PANEL 'A'

 SINGLE POLE SWITCH 20 AMP, 120 VOLT, MOUNTED 4'-0" A.F.F. HUBBELL CAT. 1201-I OR EQUAL

 THREE WAY SWITCH 20 AMP, 120 VOLT, MOUNTED 4'-0" A.F.F. HUBBELL CAT. 1203-I OR EQUAL

 FOUR WAY SWITCH, 20 AMP, 120 VOLT, MOUNTED AT 4'-0" A.F.F. HUBBELL CAT. 1204-I OR EQUAL

 120VOLT, 1P, HORSEPOWER RATED SWITCH WITH SINGLE OVERLOAD. SIZE OVERLOAD TO MATCH MOTOR NAMEPLATE AMPS OF PUMP P-1.

 OCCUPANCY SENSOR SWITCH, MANUAL ON, 20 AMP, 120 VOLT, MOUNTED 4'-0" A.F.F. LEVITON #R02-IPP15-1LW OR EQUAL

 LED DIMMER SWITCH, 1-POLE OR 3-WAY, 1500 WATT, 0-10VDC, MULTIVOLT INTERGY CAT# ISD-BG-120/277-IV OR EQUAL. CONTRACTOR SHALL VERIFY DIMMER SWITCH COMPATIBILITY WITH SELECTED FIXTURES.

GFI  20 AMP DUPLEX RECEPTACLE MTG. @ 42" A.F.F.-GROUND FAULT INTERRUPTING TYPE-VERIFY LOCATION WITH OWNER

 20 AMP DUPLEX RECEPTACLE MTG. @ 18" A.F.F.

 20 AMP DUPLEX RECEPTACLE MOUNTED IN CEILING FOR FUTURE SIGN

 TELEPHONE/DATA OUTLET MTG. @ 18" A.F.F. 3/4"C WITH PULL WIRE STUBBED UP ABOVE LAY-IN CEILING-WIRING BY OTHERS

 INDICATES EQUIPMENT ITEM NUMBER-7-REFER TO EQUIPMENT SCHEDULE REFER TO DRAWING E-3

 NEW CIRCUIT BREAKER PANEL-A, REFER TO PANEL SCHEDULE DRAWING E-3

 UTILITY COMPANY METERING

 UNFUSED DISCONNECT SWITCH - 30 AMP - 3 POLE

 MOTOR-REFER TO PLAN FOR DESCRIPTION

 JUNCTION BOX-SIZE AS REQUIRED

 GAS SOLENOID VALVE TO BE INTERLOCKED WITH HOOD ANCEL SYSTEM

WP WEATHERPROOF

HP HORSEPOWER

AFF ABOVE FINISHED FLOOR

UON UNLESS OTHERWISE NOTED

EC ELECTRICAL CONTRACTOR

UON UNLESS OTHERWISE NOTED

A L.E.D. 2' X 4' RECESSED LAY-IN FIXTURE WITH ACRYLIC PRISMATIC LENS, 4000 LUMENS, FLAT STEEL DOOR, 120 VOLT DRIVER 3500K LAMPS AND 39 WATTS INPUT
LITHONIA #ZGTL-4-40L-MVOLT-EZ1-LP835

B L.E.D. 2' X 4' RECESSED LAY-IN FIXTURE WITH ACRYLIC PRISMATIC LENS, 4000 LUMENS, FLAT STEEL DOOR, 120 VOLT DRIVER 3500K LAMPS AND 32 WATTS INPUT
LITHONIA #ZGTL-4-30L-MVOLT-EZ1-LP835

201 L.E.D. DECORATIVE TYPE PENDANT MOUNTED LIGHT FIXTURE WITH (2) L.E.D. LAMPS PROVIDED BY OWNER-50 WATTS MAXIMUM-E.C. TO VERIFY MOUNTING REQUIREMENTS AND TOTAL WATTAGE WITH OWNER PRIOR TO ROUGH-IN

202 L.E.D. DECORATIVE TYPE PENDANT MOUNTED LIGHT FIXTURE WITH (7) L.E.D. LAMPS PROVIDED BY OWNER-175 WATTS MAXIMUM-E.C. TO VERIFY MOUNTING REQUIREMENTS AND TOTAL WATTAGE WITH OWNER PRIOR TO ROUGH-IN

203 L.E.D. DECORATIVE TYPE WALL MOUNTED LIGHT FIXTURE WITH (2) L.E.D. LAMPS PROVIDED BY OWNER-50 WATTS MAXIMUM-E.C. TO VERIFY MOUNTING REQUIREMENTS AND TOTAL WATTAGE WITH OWNER PRIOR TO ROUGH-IN

204 L.E.D. DECORATIVE TYPE PENDANT MOUNTED LIGHT FIXTURE WITH (5) L.E.D. LAMPS PROVIDED BY OWNER-125 WATTS MAXIMUM-E.C. TO VERIFY MOUNTING REQUIREMENTS AND TOTAL WATTAGE WITH OWNER PRIOR TO ROUGH-IN

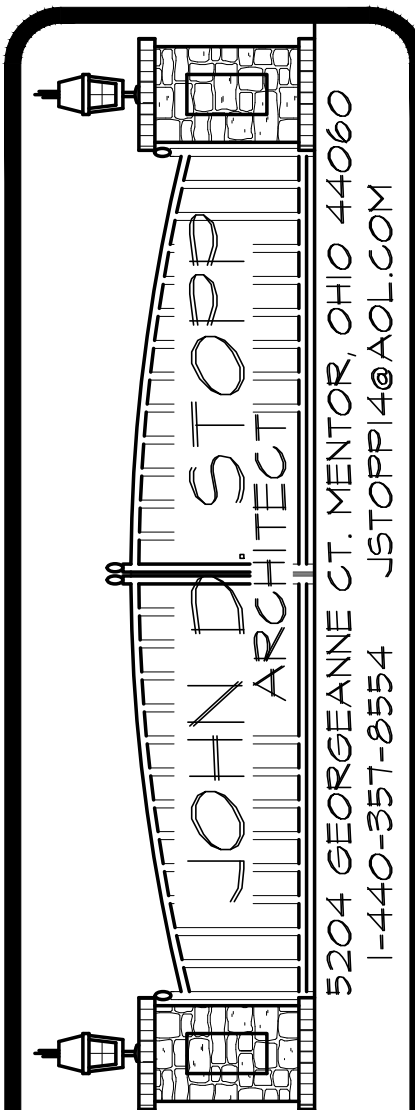
PENDANT MOUNTED COMBINATION PADDLE FAN/L.E.D. LIGHT FIXTURE WITH (6) L.E.D. LAMPS PROVIDED BY OWNER-200 WATT MAXIMUM-E.C. TO VERIFY MOUNTING REQUIREMENTS, TOTAL WATTAGE AND CONTROL TYPE REQUIRED WITH OWNER PRIOR TO ROUGH-IN

L.E.D. TAPE LIGHT MOUNTED UNDER BAR COUNTER AND LIQUOR DISPLAY WITH LOW VOLTAGE TRANSFORMER REQUIRED-LITHONIA OR EQUAL-E.C. TO VERIFY LOCATION OF TRANSFORMER AND TOTAL WATTAGE PRIOR TO ROUGH-IN

L.E.D. EXIT SIGN WITH 6" RED LETTERS, WHITE STENCIL FACE, POLYCARBONATE HOUSING, 12 VOLT LEAD CALCIUM LUMINESCENT FREE BATTERY, SOLID STATE CHARGER, TEST SWITCH AND REMOTE CAPACITY, TWO UNIT MTD. LTG. HEADS AND 120 VOLT INPUT
LITHONIA #AP7-0-R-WH-120-DHSQ

WEATHERPROOF REMOTE MTD. ADJUSTABLE L.E.D. EMERGENCY LIGHTING HEADS (2)-E.C. TO VERIFY VOLTAGE REQUIRED AND MOUNTING LOCATION IN FIELD
LITHONIA #SRPD-25-D-WH

EMERGENCY LIGHTING PACK WITH TWO UNIT MOUNTED LIGHTING HEADS, MAINTENANCE FREE BATTERY, SOLID STATE CHARGER, TEST SWITCH AND 120 VOLT INPUT
LITHONIA #EUC-2

[illegible]

CLEVELAND PIZZA CO. REMODELLING

31222 VINE STREET
WILLOWICK, OHIO

SYMBOLS, SCHEDULES AND LEGENDS

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/16" = 1'-0"
JOB NO. 202044
SHEET E3

MAIN BUS RATING: 200 AMP

MAIN BREAKER: _____

LUGS: 200 AMP

PANEL NO. _____ B _____

FED FROM: 200/3-C/B IN MDP

FEEDER CABLE SIZE: 4-#3/0&1-#6 GND., 2°C.

VOLTS: 208/120 PHASE: 3ø

DESCRIPTION	W PER PHASE			A	B	C	N	DESCRIPTION
	A	B	C					
BREAK ROOM REFRIGERATOR	800			20				MAKE UP AIR UNIT-2
BREAK ROOM MICROWAVE		1600		20			15	
BREAK ROOM COFFEE			1200	5			4	
BREAK/TOILET REC	900			20			8	EXHAUST FAN-2
(3) COMPUTERS		900		20			10	
(3) COMPUTERS			540	20			12	
VEST/SEATING REC	540			20			14	MAKE UP AIR UNIT-1
KITCHEN MISC REC		900		20			16	
OFFICE REC			900	20			18	
TELEPHONE BACKBOARD	360			20			20	EXHAUST FAN-1
ELECTRIC CHARGING STATION		600		20			22	
ELECTRIC CHARGING STATION			600	20			24	
ELECTRIC CHARGING STATION	600			20			26	SPARE
SEATING/CORR LTG		900		20			28	SPARE
SEATING LTG			525	20			30	SPARE
ASSEMBLY/BREAK LTG	1262			20			32	SPARE
PIZZA PREP/ENTRY LTG		810		20			34	SPARE
EXHAUST FAN-3			1176	30			36	SPARE
(2) HOOD ANCEL SYSTEMS	300			20			38	SPARE
SPARE				20			40	SPARE
SPARE				20			42	SPARE

CONNECTED LOAD:

KVA: 29.2

AMPS: 81.1

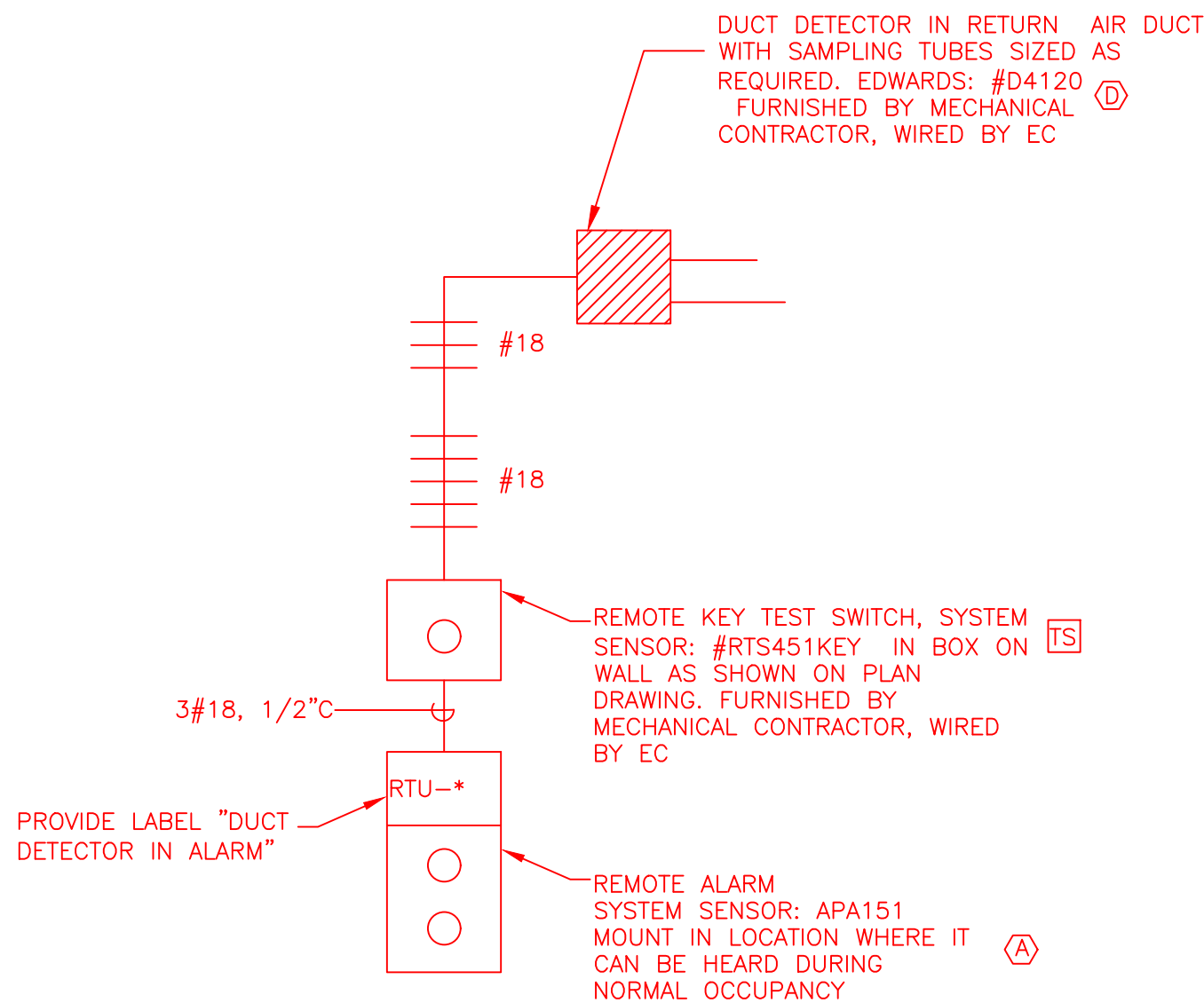
LOCATION: KITCHEN

MOUNTING: FLUSH MTD.

MAIN BUS RATING: <u>200 AMP</u>				PANEL NO.: <u> </u>				FED FROM: <u>100/3-C/B IN MDP</u>			
MAIN BREAKER: <u> </u>				FEEDER CABLE SIZE: <u>4-#3&1-#8 GND., 1 1/4" Cu.</u>				VOLTS: <u>208/120</u> PHASE: <u>3Ø</u>			
LUGS: <u>200 AMP</u>											

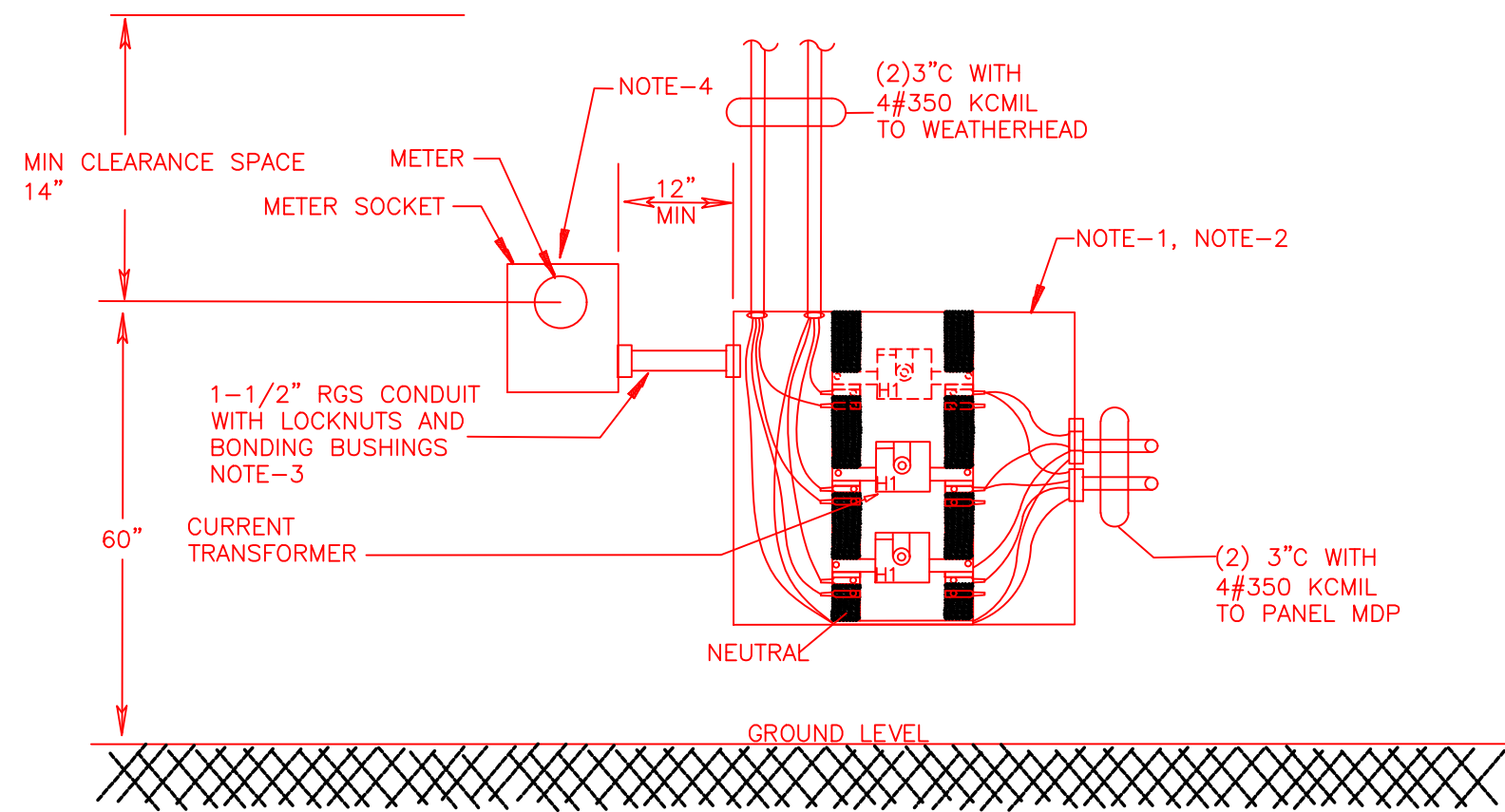
DESCRIPTION	W PER PHASE			NO.	A B C			NO.	W PER PHASE			DESCRIPTION
	A	B	C		A	B	C		A	B	C	
EXTRUDER-16	960			1	20			20	1	937		DOUGH DIVIDER-14A
VEG PREP MACHINE-17		1620		2	20			20	4	937		
(2) P.O.S.-107A, 107B			720	5	20			20	6		937	
DISHWASHER-110	1800			7	20			20	8	937		
FREEZER-112		840		9	20			20	10	937		DOUGH DIVIDER-14B
REFRIGERATOR-113			840	11	20			20	12		937	
PASS THRU COOLER-114	840			13	20			15	14	1201		
DRINK MACHINE-120		720		15	20			20	16	1201		
JUKE BOX			600	17	20			15	18		1201	DOUGH MIXER-15A
BAR UNDER COUNTER REC	540			19	20			20	20	1201		
(3) TELEVISIONS		1440		21	20			20	22	1201		
DOUGH/REVIEWING REC			900	23	20			15	24		1201	
TOILET/STORAGE REC	900			25	20			20	26	1201		DOUGH MIXER-15V
COOLERS/101 THRU 105 LTG		1296		27	20			20	28	1201		
BAR LTG		575		29	20			20	30		1201	
PATIO LTG	900			31	20			20	32	1633		
PATIO INFRA-RED HTG			200	33	20			20	34	1633		WALK IN COOLER-18A
SPARE				35	20			20	36		1633	
SPARE				37	20			20	38	1633		
SPARE				39	20			20	40			
SPARE				41	20			20	42			SPARE

CONNECTED LOAD: KVA: <u>27.5</u>	DEMAND LOAD: KVA: <u>17.9</u>	LOCATION: <u>FOOD PROCESSING</u>
AMPS: <u>76.3</u>	AMPS: <u>49.6</u>	MOUNTING: <u>FLUSH MTD.</u>



DUCT SMOKE DETECTOR DETAIL

1. ALL WIRING TO BE PER MANUFACTURER'S WIRING DIAGRAMS.
2. LOCATION OF DUCT DETECTOR TO BE VERIFIED WITH LOCAL FIRE MARSHALL DETECTOR IS TO BE INSTALLED IN AN ACCESSIBLE LOCATION.



CT CABINET/METER DETAILS:

CT CABINET/METER NOTES:

1. 600 AMP CT CABINET F&I BY THIS CONTRACTOR,, 36"x36"x10"--VERIFY, NEMA-3R 50,000 AMPS RMS RATING. EAST COAST PANELBOARD #CTJ-600R-A OR UTILITY COMPANY APPROVED EQUAL
2. CT'S FURNISHED BY UTILITY COMPANY, INSTALLED BY THIS CONTRACTOR, WIRED BY UTILITY COMPANY.
3. METERING CONDUCTORS F&I BY UTILITY COMPANY.
4. TRANSFER RATED METER SOCKET FURNISHED BY UTILITY COMPANY INSTALLED BY THIS CONTRACTOR. METER F&I BY UTILITY COMPANY.
5. PHASE ROTATION IS 1-2-3 TOP TO BOTTOM.

MAIN BUS RATING: 600 AMP

MAIN BREAKER: 600/3

LUGS:

PANEL NO. MDP

FEEDER CABLE SIZE: 8-#350 KCMIL IN 2-3" C.

VOLTS: 208/120 PHASE: 3Ø

FED FROM: METER/C.T. CABINET

DESCRIPTION	W PER PHASE				NO.	A	B	C	DESCRIPTION	
	A	B	C	NO.						
CIRCUIT BREAKER PANEL-A				1	200				2 7013	WARE WASHER-19A
		9467		3					4 7013	
			9467	5					6 7013	
CIRCUIT BREAKER PANEL-B		9733		7	200				8 10000	BOOSTER HEATER-19B
			9733	9					10 10000	
			9733	11					12 10000	
CIRCUIT BREAKER PANEL-C		5967		13	100				14 2402	ROOF TOP HVAC UNIT-1
			5967	15					16 2402	
			5967	17					18 2402	
SPARE				19	20				20 7686	ROOF TOP HVAC UNIT-2
SPARE				21	20				22 7686	
SPARE				23	20				24 7686	
SPARE				25	20				26 7686	ROOF TOP HVAC UNIT-3
SPARE				27	20				28 7686	
SPARE				29	20				30 7686	
SPACE				31					32 2402	ROOF TOP HVAC UNIT-4
SPACE				33					34 2402	
SPACE				35					36 2402	
SPACE				37					38	SPACE
SPACE				39					40	SPACE
SPACE				41					42	SPACE

DEMAND LOAD:

KVA: 187.1

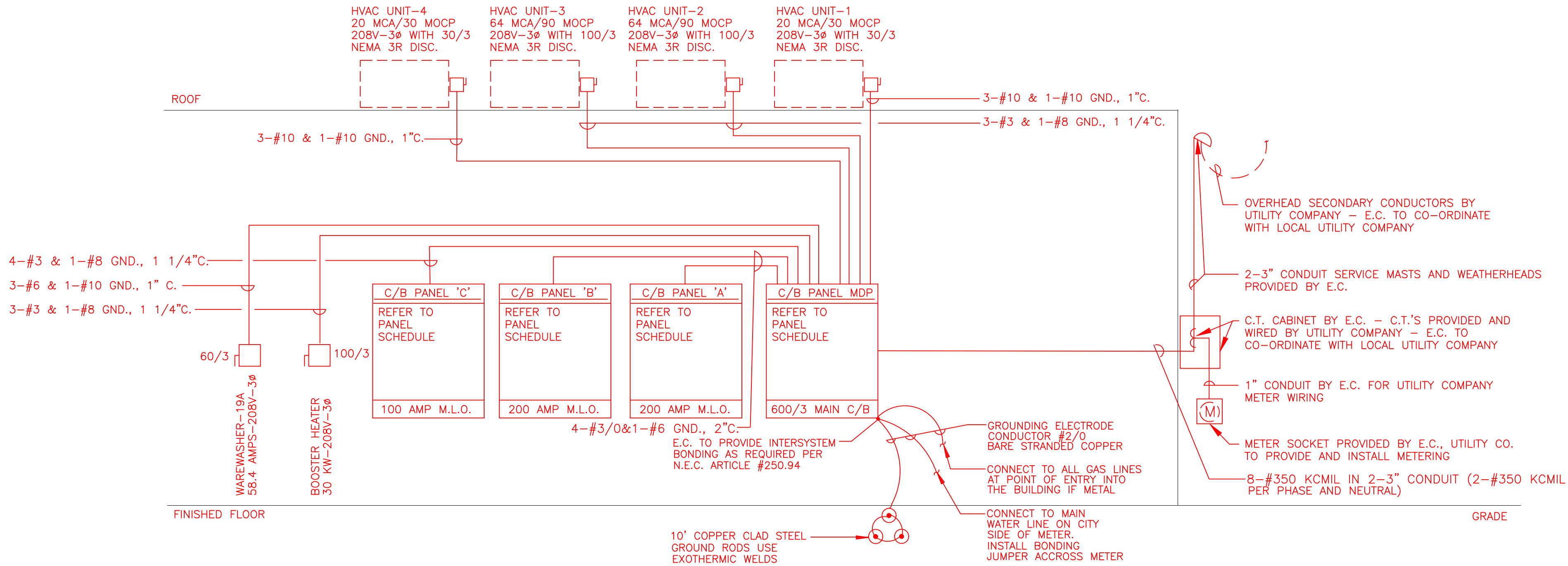
AMPS: 519.2

LOCATION: REAR OFFICE

MOUNTING: SURFACE MTD.

PANEL LEGEND

H - HACR TYPE CIRCUIT BREAKER

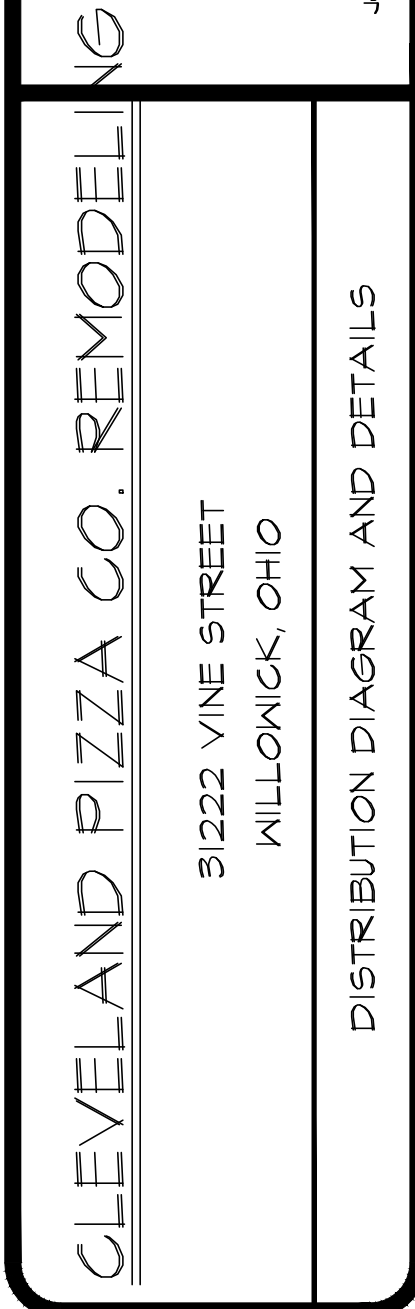
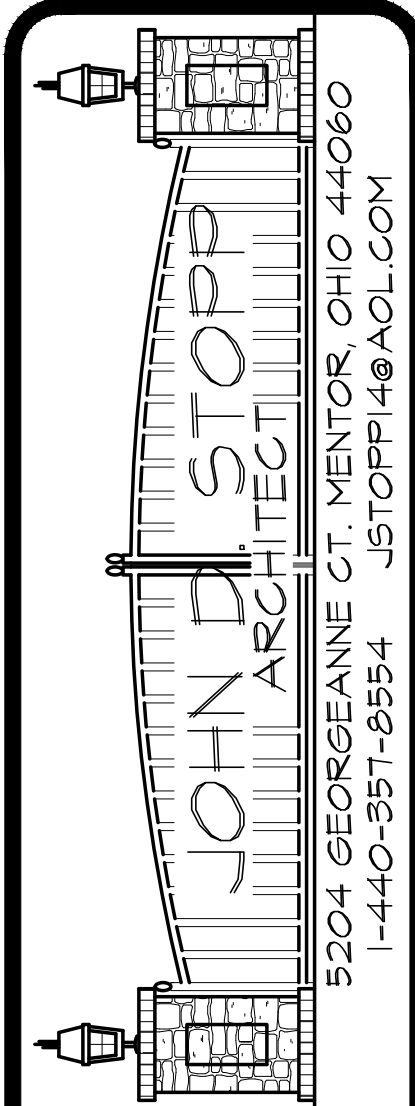


DISTRIBUTION DIAGRAM 120/208 VOLT-3Ø-4 WIRE

DRAWING NOTES

1. ELECTRICAL CONTRACTOR SHALL CONNECT ALL EXIT AND EMERGENCY LIGHTING TO THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES, THE BRANCH CIRCUIT THAT FEEDS EMERGENCY EQUIPMENT SHALL BE CLEARLY IDENTIFIED AT THE CIRCUIT BREAKER PANEL PER N.E.C. ARTICLE #700.12 (F)
2. ELECTRICAL CONTRACTOR SHALL CONTACT LOCAL UTILITY CO. TO VERIFY AVAILABLE FAULT CURRENT AT UTILITY TRANSFORMER AND VERIFY THAT FAULT CURRENT OF DEVICES DOWN STREAM MEET OR EXCEED AVAILABLE FAULT CURRENT.

REVISIONS	BY



DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/16" = 1'-0"
JOB NO. 202044
SHEET
OF 5
SHEETS

ELECTRICAL SPECIFICATION

SCOPE OF WORK

In general, the work consists of furnishing and installing the equipment, service and all other materials necessary to provide the complete electrical systems and all work in connections with such systems including labor, transportation, etc., complete in every respect as shown on the plans, herein specified, or reasonably implied as ready for use unless otherwise noted or otherwise specified.

The Contractor also is referred to architectural, structural, mechanical and other drawings pertaining to the project. The above mentioned drawings, as well as their respective specifications, are part of the complete contract documents.

It shall be the Contractor's responsibility to provide all work as herein described and/or as indicated on the drawings. Work includes, but is not limited to the following:

Complete lighting and power distribution systems, including panels and all wiring to all equipment, as shown or implied on the drawings.

All lighting fixtures, hangers, supports, lamps and control devices installed and connected in complete working order.

Receptacles, appliance outlets and telephone outlets.

Motor starters and/or safety switches and all wiring to motors and their control devices.

Complete emergency lighting, and exit sign lighting.

Empty conduits and outlet boxes for telephone system complete with pull wires in all conduits and mounting boards.

Grounding system

Materials not provided by this Contractor, but subject to his wiring:

Motors and motor controls provided by other contractors under other sections or specifications.

GENERAL REQUIREMENTS

The Electrical Contractor shall secure and pay for all permits, construction fees and other miscellaneous fees and costs associated with and required for the completion of his work. The Electrical Contractor shall arrange in a timely manner for all inspection of his work by local or state inspection department(s). Copies of all inspection reports shall be made available to the owner on request. The Electrical Contractor shall furnish to the owner 3 copies of the approved final inspection report before request for final payment.

All work shall be performed in strict accordance with the latest National Electrical Code, the State of Ohio building code and all provisions of any local electrical codes and ordinances in effect in the city, township or county where this work takes place.

All conditions and requirements of the Occupational Safety and Health Act (OSHA) shall be followed throughout the construction of this project. This project, when complete, shall meet or exceed the conditions and requirements for safety as established by the Occupational Safety and Health Act.

All materials, equipment and devices furnished by the contractor shall be new, U.L. listed or labeled, and shall conform to NEMA and ANSI standards where applicable.

Wherever the word "provide" is used, it shall mean: Furnished and installed by the Electrical Contractor.

Wherever the word "install" is used, it shall mean: Furnished by other trades, installed and wired by the Electrical Contractor.

The Contractor shall guarantee the materials and workmanship provided by him in this project for a period of one year from the date of owner's effective use. The Contractor shall repair or replace any materials or equipment which proves defective within one year no additional cost to the owner.

The Contractor must visit the site of the work and shall be aware of all conditions and provisions at the site affecting his work. The Contractor shall repair or replace any existing equipment or property of the owner which is damaged by him or by his workmen. Any damaged work shall be repaired or replaced by workmen totally skilled in the work to be performed. Any such work must be performed with the owner's prior approval and when completed shall be considered acceptable only by the owner.

The Contractor shall be aware of all work being performed by other trades and shall schedule and arrange his work so as not to duplicate or interfere with any work by other trades. Scheduling of the Contractor's work shall be done so as not to interfere with the owner's use of the building or create hazards for the owner's personnel, which may occupy the building.

The Contractor shall conduct tests of the system in the presence of the owner or his agent. All materials and installation shall be guaranteed to be free of defects in material and workmanship for 1 year. The Contractor shall turn over the owner system wiring diagrams and maintenance data.

The Electrical Contractor shall submit manufacturer's certified drawings to the owner for approval before purchasing equipment. Failure to gain prior approval by the owner shall not relieve the Contractor from supplying the equipment as specified herein.

The submittals will be reviewed only for general compliance and not for dimensions, quantities, etc. The submittals that are returned shall be used for procurement. The responsibility of correct procurement remains solely with the Contractor. The submittal review shall not relieve the Contractor of responsibility for errors or omissions and deviations from the contract requirements.

The Contractor shall schedule his work in order to meet the owner's schedule for effective use of the building. The contractor shall arrange for all materials and items of labor to be available and/or completed to avoid any delays in the schedule for completion of his work or work of other trades.

All panels, safety switches, and circuits from panels shall be identified with plastic lamicoid nameplates denoting panel number or letter code, voltage, phase and its use, i.e., lighting, power, AC equipment, etc.

Electrical Contractor shall be responsible to connect all single phase loads to the three phase bus system in order to balance the loading on the phase distribution.

It is the intent of the electrical drawings to describe as accurately as possible, the work required and locations of all equipment. The owner reserves the right to make minor changes in location of the installation of equipment shown on the drawings. Such changes shall not be justification in any way for additional compensation to the Contractor.

The entire length and power system shall be permanently and effectively grounded in accordance with the latest issue of the National Electrical Code, including all exposed, non-current carrying electrical parts of the electrical equipment. All ground conductors shall be insulated copper.

All bare metal parts and supporting steel shall be painted by the Contractor with one ship coat, color as selected by the owner. All equipment enclosures finished surfaces damaged shall be restored to original quality.

ELECTRICAL AND TELEPHONE SERVICES

The Electrical Contractor shall coordinate his work with the local utility company serving this area for installation of equipment furnished and/or installed by him. All work shall meet the utility company's requirements when completed.

Telephone service shall consist of necessary conduit and cabinets, as shown on plans and all necessary backboards, and the entire system shall be coordinated directly with the telephone company and Architect prior to rough-in.

CONDUIT AND WIRE

All feeders shall be installed in intermediate metal conduit (IMC), or rigid conduit. Thin-wall conduit or type "MC" cable may be used in commercial areas where not subject to physical damage. All conduits that run in or under concrete or in grade shall be IMC or rigid nonmetallic plastic conduit schedule 40. All conduits shall be of the proper size in accordance with the National Electrical Code, 3/4" inch as a minimum.

All pull boxes, junction boxes or device boxes shall be metal and shall be properly sized for the required number of conductors. All boxes shall be rigidly and securely fastened to the building structure, building finish or building members. Boxes used for surface conduit work shall be "FS" series cast boxes.

Minimum branch circuit wire size for power and lighting shall be size 12 AWG, solid copper all branch circuit homeruns in excess of 100 feet shall be #10 AWG. Size 14 AWG, stranded copper may be used for control and communication circuits or in portable cords. Unless otherwise noted, wire shall be as follows:

No. 14 AWG and larger; copper, stranded or solid, type THWN-THHW, 75 degrees Centigrade, 600 volt.

No. 8 AWG and larger; copper, stranded, type XHHW, 90 degrees Centigrade, 600 volt.

Wherever flexibility is required, such as at motors, transformers and adjustable equipment, liquidtight flexible metal conduits shall be used. Liquidtight flexible conduit may be used in lengths not to exceed 3 feet and not less than 2 feet. Flexible conduit shall not be used as a substitute for conduit raceways where they can be installed with no mechanical difficulty. All flexible raceways shall include an equipment grounding conductor regardless of length of circuit protection devices. Liquidtight flexible conduit shall be used in damp or wet locations.

Seal all openings around electrical penetrations through fire resistant-rated walls, exterior walls, partitions, floors or ceilings using an approved method to maintain the fire resistance rating as required by article #300.21 & 300.7 of the national electrical code.

If the ceiling cavity is used as a return air plenum, All low voltage wiring not installed in conduit shall be suitable for installation in an air handling plenum as required by article #300-22 of the national electrical code.

MATERIALS

Unless otherwise noted, all safety switches shall be NEMA 1 or NEMA 3R, fused or unfused, rated 600 volt and shall be U.L. listed. Switches shall have a short circuit with stand rating or not less than 100,000 amperes, RMS symmetrical-heavy duty type, switches shall be Square 'D' Company, I.T.E. or Westinghouse.

Fuses shall not be installed until equipment is ready to be energized. All fuses shall be of the same manufacturer to assure selective coordination.

The Electrical Contractor shall furnish and install a complete set of fuses for all fusible equipment on the job. Unless otherwise noted, all fuses shall be U.L. listed, current limiting and have an interrupting rating of 200,000 RMS amperes symmetrical.

All fuses rated 600 amperes or less shall be time-delay current-limiting U.L. class RK1, unless otherwise noted. They shall be:

1. Gould Shawmut amp tram II A2D R (250V), A6D R (600V).
2. Bussman low peak; LPN-RK (250V), LPS-RK (600V).
3. Reliance; LEN-RK (250V), LES-RK (600V).

Distribution panels shall be dead front, safety type, general purpose enclosures containing dead front fusible switch type units, number and size as indicated, balanced on 208 volt, 3 phase, 4 WSH mains, as indicated. The individual switch and fuse units shall be of the quick-make, quick-break type and shall have hinged fuse compartments with interlocked fuse doors so that access for replacement of fuses can be made only when the externally operated handle is in the "off" position. These units shall be removable and accessible from the front position so that the cabinet may be mounted on the wall. Equip each unit with car holder, switch rating nameplate and fuses similar to Bussman fusetron. Panels shall be similar to Square 'D' type QMB, equipped with front door and lock. I.T.E. or General Electric shall be considered equal.

Provide all panelboards where shown. All panels shall have a hinged door with panel legend type written indicating all circuits supplied, including spares along with main breaker or main lugs only. All panels shall have a minimum of 10,000 A.E.C. rated breakers, provide a separate ground bus. Refer to drawings for the number and size of branch breakers to be main lugs, (plug in type circuit breakers shall not be acceptable), panels shall be U.L. listed or labeled, conform to NEMA standards and shall be as manufactured by I.T.E., Square 'D' Company or General Electric.

All wall switches shall be of the toggle type for single pole, and three-way or four-way switches, specification grade, 20-ampere, 120/277 volt, quiet type, Hubbell #1221 for single pole, #1223 for three-way, and #1224 for four-way. Mtg. height and locations shall be subject to approval of the Architect.

Receptacle outlets shall be duplex type, specification grade 15 ampere, 125 volt, grounding type, Hubbell #5252. GFCI receptacles shall be 15 ampere, duplex, 3 wire grounding type, Hubbell #GF-5262, feed-thru type, capable of protection connected downstream receptacles on a single circuit. Mounting height and locations of all receptacles shall be subject to approval of the Architect.

Wall plates for switches, receptacles, telephone and other outlets shall be designed for the device with which used. All wall and cover plates shall be Hubbell P series, smooth finish, thermoplastic. Cover plates for exposed outlets shall be cadmium plated steel.

All hardware, supports, hangers, angle iron, channels, rods and clamps necessary to install electrical equipment, shall be supplied to suit conditions and application. The use of perforated straps will not be permitted.

Supporting devices shall be galvanized or aluminum material. All steel work erected for the support of electrical equipment shall be painted with one coat of iron-oxide black paint after cutting, drilling, welding, etc.

All equipment mounted on exterior walls shall be attached to 3/4" painted fire-proofed plywood boards furred out 1" from wall.

LIGHTING SYSTEMS

Provide and install in all lighting fixtures and lamps as shown in the fixture schedule and/or described in these specifications. Coordinate with all other trades in the locating of lighting outlets.

All lamps shall be of the same manufacturer throughout the project and shall be as manufactured by General Electric or Philips.

All surface mounted fixtures, fluorescent and L.E.D. shall be mounted securely to the fixture stands in the lighting.

Exterior fixtures or site luminaires shall be provided with ballast suitable for outdoor use (-20 degrees Fahrenheit).

Egress emergency lighting shall be provided by self-contained battery operated 12 volt unit equipment. Battery and charger may be remote mounted from the lighting units. Battery units shall contain a long-life, self- charging battery transfer switch. Units shall include remote lighting heads or where indicated, remote heads for wall or ceiling recessed mounting. Units shall be 120 volt 60 HZ. All exit and egress emergency lighting shall provide a minimum of 90 minutes of operation on power failure. Locate as shown on plans and/or required by national, state and local codes.

MOTORS AND CONTROLS

This Contractor shall thoroughly acquaint himself with the specifications and drawings of the heating, air conditioning, and ventilating sections of the work to determine phases of the electrical installations which come under those headings. Should there be a discrepancy between the heating, air conditioning, and ventilating specifications and the electrical specifications, the specifications of the heating, air conditioning, and ventilating sections shall take preference.

In general, motors up to and including 1/3 HP shall be 120 volt, 1 phase, 60 cycle.

Wiring, starters, push-button and other operation and control wiring and devices necessary to provide automatic operation of heating and ventilating equipment (other than thermostats for unit ventilations and cabinet heaters) shall be furnished and installed as described in mechanical systems by the Electrical Contractor.

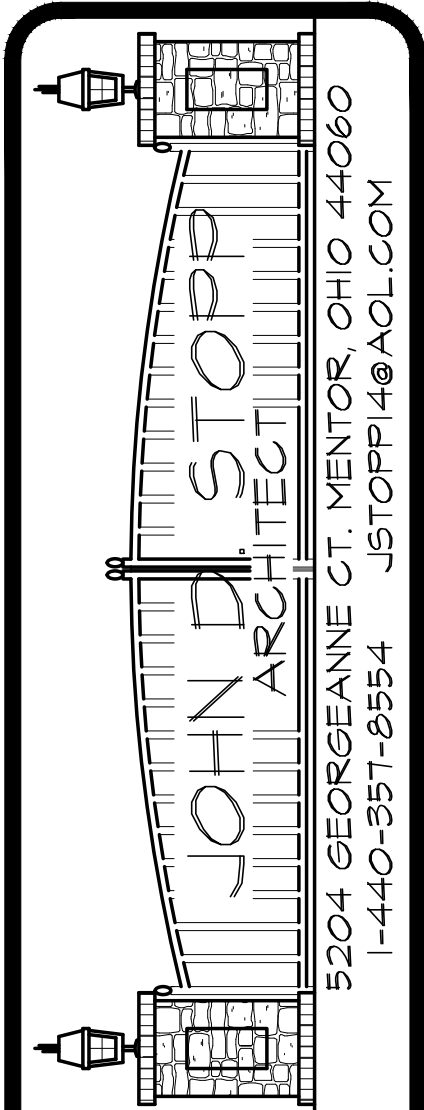
Furnish and install all power wiring including starters furnished by others, disconnect switches (where not furnished with combination starters) and provide all necessary mounting brackets and supports for the installation of his equipment and that furnished to him by others.

All conduit and wire for HVAC system controls, equipment and panels shown on the electrical drawing shall be furnished and installed by this contractor for use by temperature control installer for HVAC systems. Confirm exact locations and number of wires required. All final connections of line voltage power wiring to equipment and panels to be by the Electrical Contractor.

Starters for three-phase motors will be combination fused disconnect/magnetic full voltage starting type with 120 volt coils, 3 overloads, control transformer, fused control circuit, (2) N.O. and (2) N.C. auxiliary contacts and running pilot light. In addition, manually controlled motors shall have a "start- stop" push-button station in the cover, automatically controlled motors shall have "hand-off-auto" selector switches in the cover.

Manual starters (thermal overload switches) shall be Allen Bradley, Bulletin 600, with indicating lights.

REVISIONS	BY



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CLEVELAND PIZZA CO. REMODELING

31222 VINE STREET
WILLOWICK, OHIO

ELECTRICAL SPECIFICATIONS

DRAWN
JOHN D. STOPP

CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

JOB NO.
202044

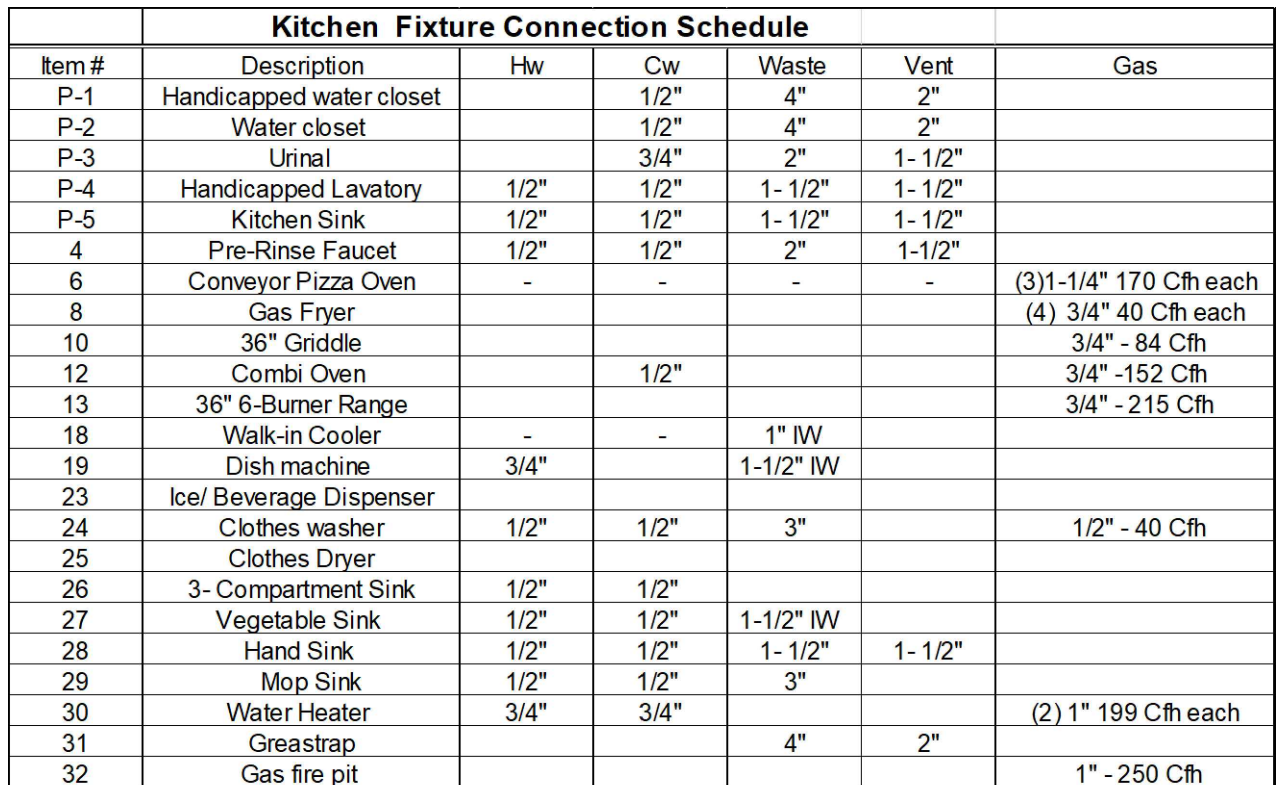
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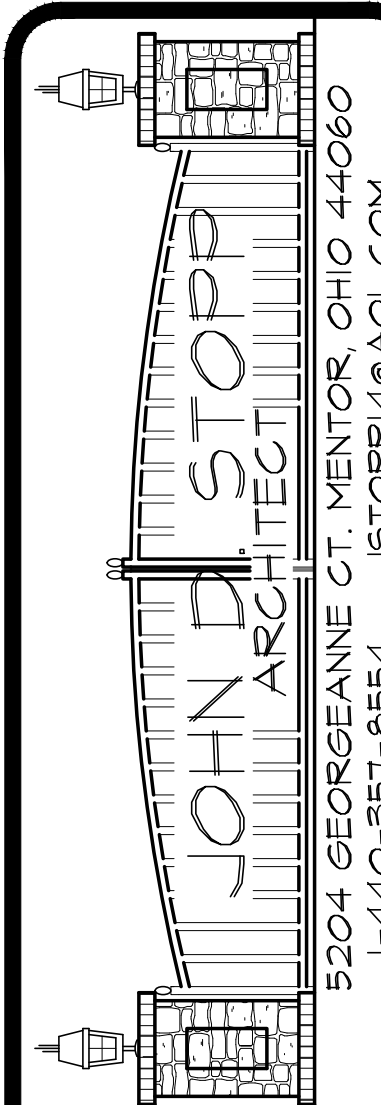
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DRAWN
JOHN D. STOPP
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OF 4
SHEETS

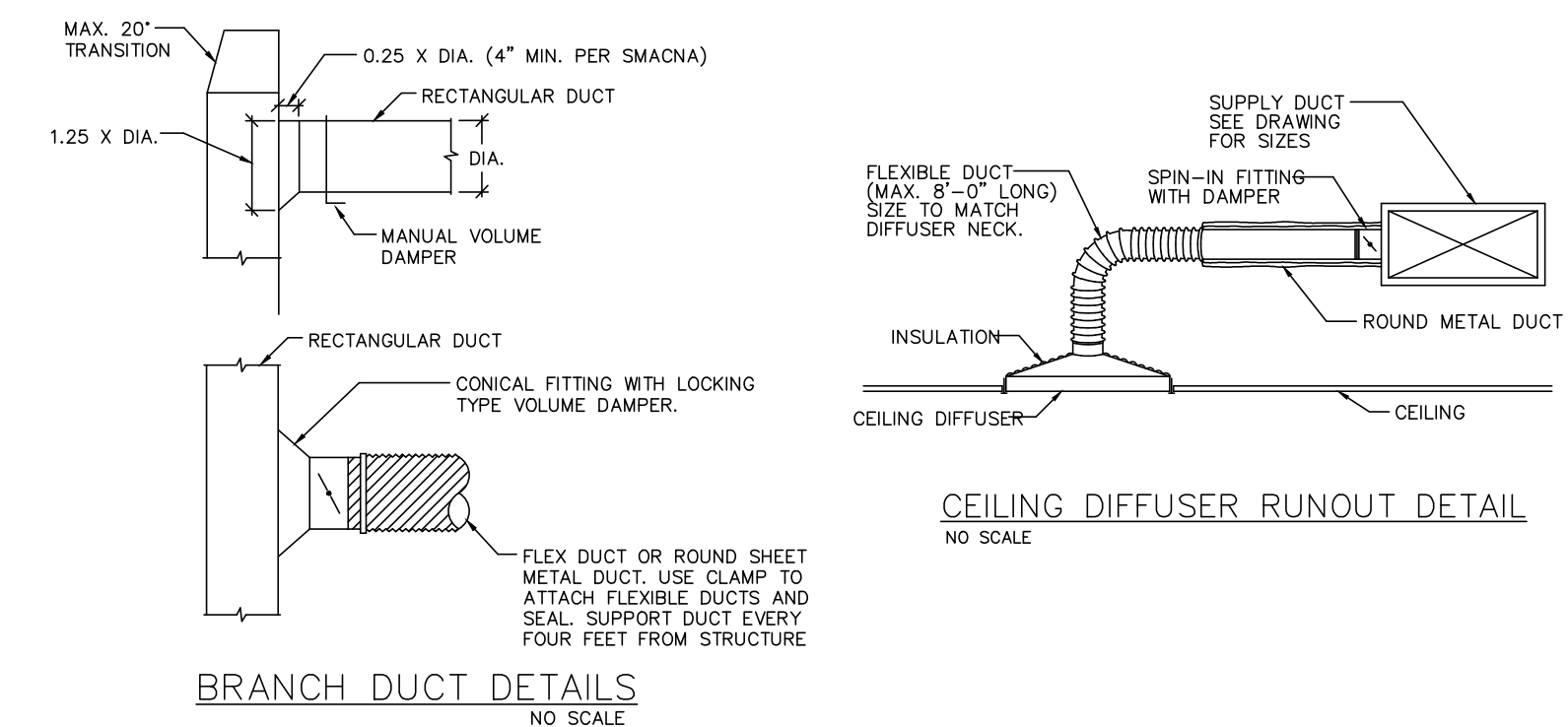
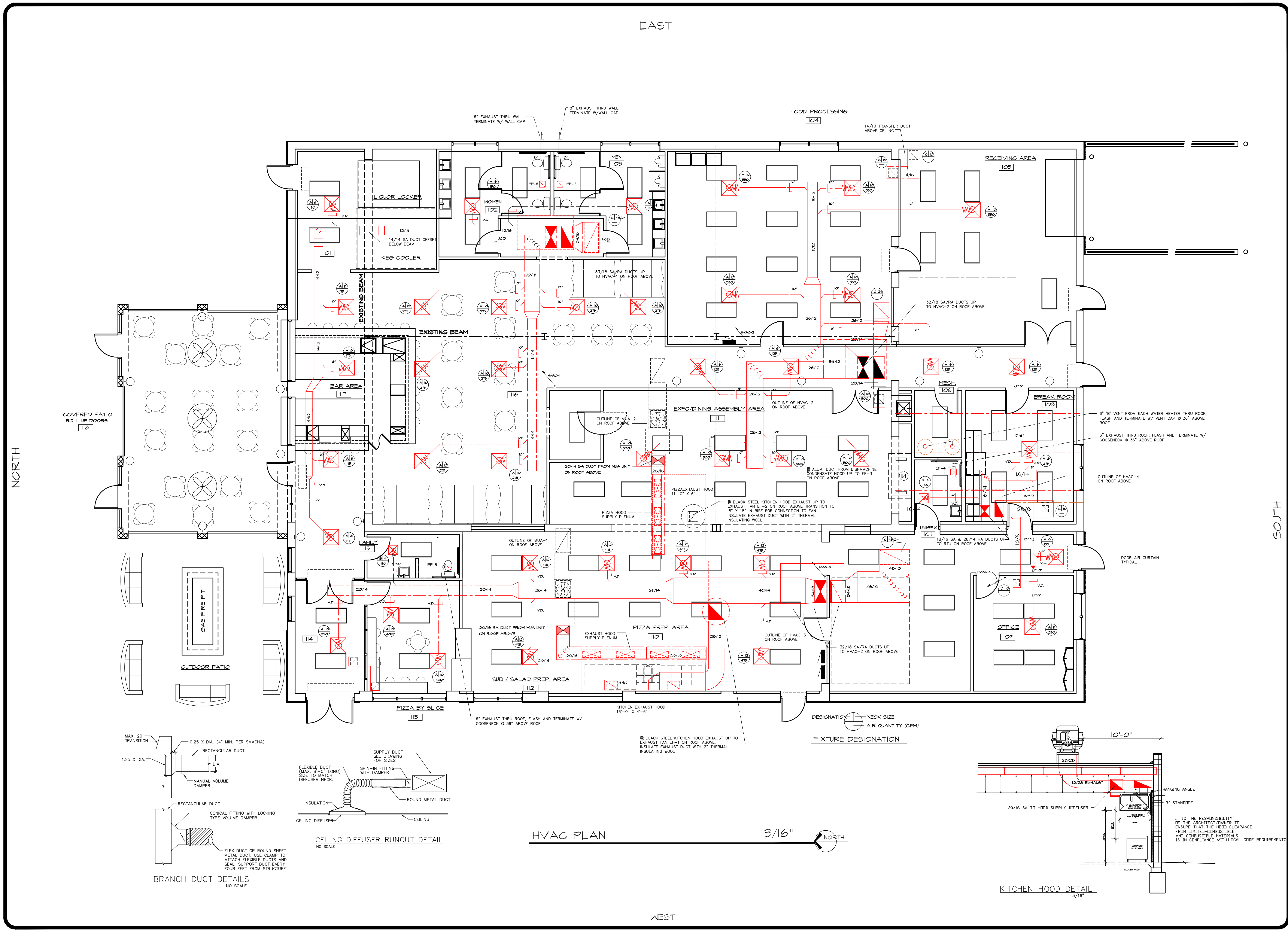


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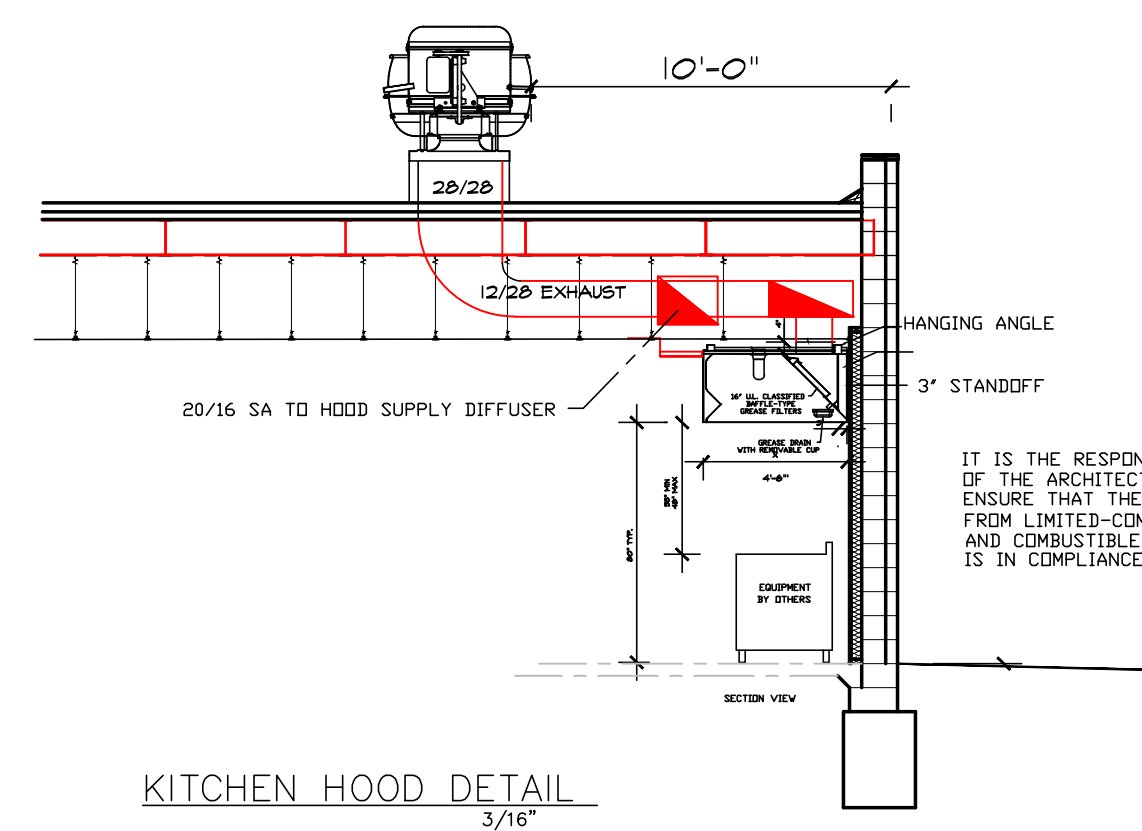


CLEVELAND PIZZA CO. REMODELING
31222 VINE STREET
WILLOWICK, OHIO
MECHANICAL HVAC PLAN

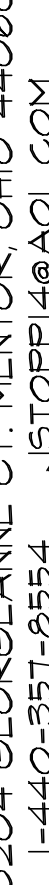
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JOB NO.
202044
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DESIGNATION
NECK SIZE
AIR QUANTITY (CFM)
FIXTURE DESIGNATION

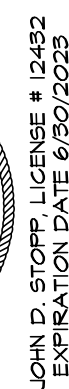


IT IS THE RESPONSIBILITY OF THE ARCHITECT/OWNER TO ENSURE THAT THE HOOD CLEARANCE FROM LIMITED-COMBUSTIBLE AND COMBUSTIBLE MATERIALS IS IN COMPLIANCE WITH LOCAL CODE REQUIREMENTS



JOHN DI STOPPO
ARCHITECT

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31222 VINE STREET
WILLOWICK, OHIO

MECHANICAL ROOF PLAN



SHEET:



WEST

MECHANICAL SPECIFICATIONS

I. GENERAL CONDITIONS AND OTHER CONTRACT DOCUMENTS

- A. The provisions of the instructions to bidders, general supplementary conditions, alternates, and divisions I are part of this specification. Contractors and sub-contractors shall examine same as well as other division.
2. CODES AND PERMITS
- A. Comply with all rules, regulations of state, county and state authorities having jurisdiction over the premises including safety requirements of OSHA. Do not construe this as relieving the contractor from complying with specifications which exceed code requirements and not in conflict therewith.
- B. Secure and pay for all permits and certificates of inspection required. Make payments to all public utilities for work performed in providing service connections.
5. DRAWINGS

- A. Drawings and specifications are to be considered as supplementing each other. Work payments to all public utilities for work performed in providing service connections.
4. SHOP DRAWINGS

- A. Prepare shop drawings for mechanical equipment with adequate details and scales as necessary t clearly show construction. Clearly identify each item on the drawings as to mark, location, and use.
5. COORDINATION AND SUPERVISION
- A. Examine work of other trades which comes in contact with or is covered by this work. do not attach to, cover, or finish against any defective work or install work of this division in a manner which will prevent other trades from properly installing their work. Consult all drawings, specifications and details of other divisions of the work.
- B. If any work is installed so that the architectural design cannot be adhered to, the contractor is liable for the cost of making such changes as architect may require.
- C. Provide adequate competent supervision at all times when work is being performed. Cooperate with all other trades to avoid interference's and delays.
6. LOCAL CONDITIONS

- A. Visit site, become familiar with conditions affecting this work. No additional payment will be made on claims that arise from lack of knowledge of existing conditions.
7. GUARANTEE AND WARRANTIES

- A. Warrant that equipment and all work is installed in accordance with good engineering practice and that all equipment will meet requirements specified. any equipment failing to perform or function as specified shall be replaced with complying equipment without cost to the owner.
- A. INSTALLATION REQUIREMENTS
- A. Location of piping, equipment, ducts, etc. on the drawings are diagrammatic. Indicated positions shall be followed as closely as possible. Exact locations shall be subject to building construction and interference's with other work.

- B. Do all cutting and patching in existing construction as necessary for installation of this work. Do not cut any structural member without specific permission from all the architect. Have cutting done by skilled mechanics as carefully as possible, and with as little damage as possible. Have patching done by first-class mechanics skilled in the specific trade involved.

9. TESTS AND ADJUSTMENTS
- a. Obtain all inspections required by law, ordinances, rules and regulations of authorities having jurisdiction. Furnish certificates of such inspections. pay all fees and provide all equipment, power and labor necessary for inspections and test.

- B. Pressure Tests:
1. All piping shall be given the following pressure test without appreciable pressure drop. Equipment which would be damaged by the required test pressure shall be isolated from the system during test.
- | Service | Medium | (psi) | Hrs. |
|----------------|--------|-------|------|
| Domestic water | water | 125 | 6 |
| Gas piping | air | 50 | 24 |

- C. Sanitary sewers per state plumbing code or local authority.

10. HVAC SYSTEMS ADJUSTMENTS AND BALANCE

- A. Place all heating, ventilating, exhaust and air conditioning systems and equipment into full operation and continue operation of some during each working day of testing and balancing. All testing and balancing shall be done under both summer and winter design conditions.

- B. Perform tests and balance systems in accordance with the following requirements:
1. Balance and adjust all air handling systems for design flow of supply, return, exhaust and outside air to within 10% of design requirements.

2. After or during one complete heating-cooling season, make any minor adjustments that may be necessary to insure uniform temperatures throughout the space.

- II. MATERIALS
- A. Pipe and Fittings
- Domestic water - Type 'L' copper or PEX crosslinked polyethylene tubing w/ brass connector fittings, NSF approved (red for hotwater blue for cold water)
- Domestic water (underground) - Type 'L' copper or PEX crosslinked polyethylene tubing w/ brass connector fittings, NSF approved (red for hotwater blue for cold water)
- Waste and drain piping (above ground interior) - Sch. 40 no-hub C.I.
- Vent piping - sch 40 PVC
- Gas piping - schedule 40 black steel
- Building sewers and drains (underground) - cast iron

12. VALVES
- A. Valves in water piping: 2" and smaller: ball valves or with screwed ends, min. 150 lbs. swp. valves used for shut-off and balancing shall be equipped with memory stop. 2-1/2" and larger through 4" shall be gate valves or ball valves.
- B. Valves in gas piping: Bronze plug valves

13. INSULATION
- A. All insulation shall be installed over clean dry surfaces. Insulation must be dry and in good condition. Wet or damaged insulation will not be acceptable. No insulation shall be applied prior to pressure test completion of the respective piping systems.
- B. Fiberglass pipe insulation shall be installed with joints butted firmly together. Jacket laps to be sealed with factory applied adhesive. Valves and fittings shall be covered with the same type of covering as used on the pipe insulation.
- C. Provide the following products as manufactured by Owens-Corning: Insulation products as manufactured by Armstrong, Certainteed or Kanul are acceptable. Adhesive shall be Benjamin Foster or equal.
- D. Material:
- Domestic hot water - 1" thick AS/J55L Fiberglass (Type 'L' copper)
- Domestic cold water - 1" thick AS/J55L Fiberglass (Type 'L' copper)
- Condensed Supply and Return Air Duct - Type B0 1-1/2" FRK duct-wrap
- Kitchen Hood Exhaust - 2" thick thermal insul wool

13. GAS PIPING SYSTEM
- A. Install all gas piping in accordance with all code requirements. Pipe sealant shall be applied to the male threads only and shall be chemically resistant to natural gas.
- B. Contractor shall remove cutting and threading burrs and insure that the entire pipe is free of debris and blockage prior to piping assembly.
- C. Gas piping above ground shall be black steel sch. 40 ASTM A-120 lap welded pipe with 150# black malleable iron screwed fittings. Bushings are prohibited. Provide a main shut-off valve and if required a pressure regulator at each piece of equipment.
- D. The gas piping system shall be grounded electrically and continuously. Bond piping tightly to grounding connectors. Grounding of piping shall be per the drawing requirements and in compliance with all applicable codes.
- E. Contractor shall accept, inspect, test and purge the gas piping system in accordance with NFPA 54 and local utility requirements prior to connection to the gas meter or the gas piping system.
- F. Provide full size dirt leg, gas cock and union in the supply piping at all connections to the gas fired equipment as indicated on the drawings.

6. Natural gas piping design and installation shall be in full accordance with the International Fuel Gas Code for piping materials and components, installation, inspection and purging.
15. WATER PIPING SYSTEMS
- A. Extend new water service from street to new meter set, back flow preventer per local water dept. requirements and extend to new fixtures and equipment.

16. PLUMBING FIXTURES
- P1-American Standard " Champion Elongated Water Saver" # 211AA104 pressure assisted elongated bowl, close coupled tank, 1.6 GPF floor mounting, 17" high, vitreous china water closet with Otonite #45 open front seat less cover, lever on left side.
- P1A - Lever on right side (K21AA105)
- P2-American Standard " Champion Elongated Water Saver" # 215CA.004 pressure assisted elongated bowl, close coupled tank, 1.6 GPF floor mounting, 15" high, vitreous china water closet with Otonite #45 open front seat less cover, lever on left side.
- P3 - Acumicon Standard "1 # 680.010 vitreous china wall-hung, 3/4" lap spud, 2" waste.
- Flush valve - Sloan Optima Plus # B1B0 exposed battery powered Sensor activated Water closet Flushometer.
- P4-Lavatory American Standard "Miscourt" # C436.001a vitreous china wall hung lavatory, Size: 20 x 18, faucet holes on 4" centers, Faucet-Armon "Moan" Chateau # L4621 single lever faucet with pop-up strainer. Provide IT gas p-trap and supply risers with screwdriver control stops. Install Provoice RPN 2125 PC preheated offset tailpiece covers and 0.5 gpm flow restrictor and Sloan # 3526004 tempering valve. (Sloan # 3526004)
- P5-Lavatory American Standard "Sloan" # C84300.020 vitreous china counter-top lavatory, Size: 21 x 18, faucet holes on 4" centers, Faucet-Armon "Moan" Chateau # L4621 single lever faucet with pop-up strainer. Provide IT gas p-trap and supply risers with screwdriver control stops. Install Provoice RPN 2125 PC preheated offset tailpiece covers and 0.5 gpm flow restrictor and Sloan # 3526004 tempering valve. (Sloan # 3526004)
- P-6 - Moen "2000 Series" 6620/461BQ stainless steel 28" x 22" self-rimming 1 hole single bowl sink with Moen # ZH40 crumb cup strainer. Faucet - Moen "Integra" single lever faucet. Provide a IT gas tailpiece, P trap and supply risers with stops.
- RHW Pump - Grundfos Series UPG-16-1/4" A BLENL auto-whine Circulating pump. Capacity - 2 Gpm x 5 head. Motor - 0.5 watts, 120v. Pump to be all bronze const. with 1/2" fpt, 6 FT cord, with sensor.
- GWH (2) req'd - Rheem # G37-200 100 gallon gas Water heater, 100 gallon Storage, 199,000 Btuh input, 215 Gal/hr recovery @ 90 deg. F temp rise. Provide with T&P relief valve and 6 year warranty, Amtrol #ST-12 Thermal-X-trol diaphragm expansion tank, 4.5 gal capacity 150 PSI maximum working pressure at 200 deg. F.
- FD-1 - Josam 30000-A 6" round strainer and nickel brass tap
- FD-2 - Josam # 30000-E 6" round strainer w/turnel and nickel brass tap
- FS - Josam # 44900-LF-NB 8 x 8 Floor sink with 3/4 grate
- TP - Trap Primer - Josam # 88250 (all bronze const.)
- GreaseTrap- Rockford # GP-3224-H 10 ga. welded separator, 67 gal. capacity, 60 gpm, 4" trapped inlet and outlet, 350# capacity, 5/8" diamond plate cover for flush w/ floor installation

18. KITCHEN EQUIPMENT
- A. The following equipment will be furnished by the kitchen equipment supplier for installation by the plumbing contractor.
1. Faucet and spray hoses
2. waste fitting, i.e. lever and twist handle wastes, crumb cup, slotted strainer and open drains.
3. tail pieces
4. control valves except where integral with the equipment
5. emergency gas shut off valve
- The following items shall be furnished and installed by the plumbing contractor.
1. check valves
2. watts or approved equal pressure regulating valves set at 60 psg in each hot and cold water line to each dishwasher, ice machine and coffee machine.
3. pipe line strainers
4. chrome plated cast brass traps
5. gas shut-off valves
6. shut-off valves in water piping as required
7. all exposed piping as required for final connection.

19. SANITARY DRAINAGE SYSTEMS

- A. Location of sanitary, waste and vent piping as shown on the drawings shall be installed to meet various building conditions. Do any work necessary to conceal piping or clear piping of other trades.
- B. Slope main drain at 1/8" per foot and all connecting branch lines at 1/4" per foot unless noted otherwise. Changes in direction of drainage piping shall be made with 1/8, 1/8, or 1/16 bends except for vertical stacks on which crosses and sanitary T's may be used.

20. DUCTWORK

- A. Installation
1. Provide all sheet metal work as shown on the drawings in accordance with the latest edition of the ASHRAE guide and SMACNA
2. Construct all ductwork to a SMACNA low Pressure class of 1" x.g.
5. Install ductwork as indicated on plans making all necessary changes and offsets without reducing the cross sectional area of the duct.

- B. Materials
1. Low pressure ductwork to be constructed as a low pressure system with the following requirements added from the high velocity standards.
- a. Longitudinal seams shall be Figure 1-10 or 1-11.
- b. All joints are acceptable as shown in the high velocity manual.
- c. Seal all seams as shown in the high velocity manual and provide sealant at any screw holes in the duct.
- d. All duct takeoffs shall be fabricated with reference to Figure 2-10 of the low pressure manual.
- C. Provide and install all dampers and deflectors necessary for proper air distribution. Provide a damper in each supply branch and exhaust outlet when served by a fan with multiple grilles. Dampers over 15" wide shall be opposed blade type.
- D. Flexible duct shall be rated for the velocity and static pressure requirements of the system served and in accordance with NFPA 90.
- E. Where indicated on plans (lined duct shall conform to the requirements of the SMACNA ' Duct liner Application Standard". Apply liner with 100%, adhesive coverage in addition to "Stick clips".
- F. Kitchen Hood Exhaust(Concealed) - 16 ga. Black steel/steel angle reinforcing, joints and seams welded watertight.
- H. GRILLES AND DIFFUSERS -
- Type -A - Tlus Omni square 24x24 lay-in ceiling diffuser with damper, off-white finish. Size and cfm as noted on plans.
- Type -B - Tlus Omni 12 x 12 surface steel ceiling diffuser w/ OED damper, off-white finish. Size and cfm as noted on plans.
- Type -C - Tlus 50 FF 1/2 x 1/2 aggregate return air grill for lay-in ceiling w/ duct flange

20. TEMPERATURE CONTROL
- A. All necessary components incidental to the installation of this temperature control system shall be provided by the mechanical contractor.
- B. The "unit" components shall be construed to include furnishing of miscellaneous material and labor as required for mounting and connecting control devices between equipment.

21. SEQUENCE OF OPERATION
- A. HVAC-142
1. A programmable thermostat will control the HVAC units operation between occupied and unoccupied modes.
2. During the occupied mode the outside air damper will open to its minimum position and the supply fan and will start and run continuously. The gas heat exchanger or DX cooling will cycle in as required to maintain the desired space setpoint.
5. During the unoccupied mode the outside air and relief dampers will close and the units and exhaust fans will be off.
4. A duct mounted smoke detector located in the return air duct(HVAC-I) will shut down the supply fan in the event the unit detects smoke. The detector will require a manual reset.

- B. KITCHEN HOOD EXHAUST SYSTEM
1. The kitchen exhaust fans EF-1 and MUA unit shall be interlocked.
2. The MUA unit will start with the hood exhaust fans.
3. In the event that the hood fire suppression system is activated the hood exhaust fans and hv unit will be disabled until the fire suppression system is reset.
6. KITCHEN HOOD EXHAUST SYSTEM
1. The MUA unit will start with the hood exhaust fans.
2. During the occupied mode the outside air damper will open, the supply fan will run continuously. The direct gas burner or DX cooling system will modulate as required to maintain the desired discharge air setpoint. (70 deg. adjustable)

22. MECHANICAL EQUIPMENT
- RTU-1- Provide and install Trans 10 Ton standard efficiency rooftop unit, 208/60/3, low heat, economizer - dry bulb 0-100% with barometric relief standard access panels with 2" NERV 18 filters, unit mounted non-heat disconnect, return or smoke detector, Gross Cooling Capacity - 150,000 btu/hr, Sensible: 96,000 btu/hr, Nominal CFM - 4,000 cfm # 13 ESP, 2 stage heat - 150,000/19,000 btu/hr. Provide unit with programmable heat-cool limit, 2-sets of throwaway filters 5 year compressor warranty, stainless steel heat exchangers, EER = 14.00xhp, 1200# Electrical, Indoor Fan 5 hp, 64 MCA 50 MOPF 208v-50 Set minimum Outside air 104 cfm.

- RTU-2- Provide and install Trans 12.5Ton standard efficiency rooftop unit, 208/60/3, low heat, economizer - dry bulb 0-100% with barometric relief standard access panels with 2" NERV 18 filters, unit mounted non-heat disconnect, return or smoke detector, Gross Cooling Capacity - 184,000 btu/hr,Sensible 118,000 btu/hr, Nominal CFM - 5,000 cfm # 13 ESP, 2 stage heat - 200,000/20,000 btu/hr. Provide unit with programmable heat-cool limit, 2-sets of throwaway filters 5 year compressor warranty, stainless steel heat exchangers, EER = 12.4xhp, 1600# Electrical, Indoor Fan 5 hp, 64 MCA 40 MOPF 208v-50 Set minimum Outside air # 1900 cfm.
- RTU-3- Provide and install Trans 12.5Ton standard efficiency rooftop unit, 208/60/3, low heat, economizer - dry bulb 0-100% with barometric relief standard access panels with 2" NERV 18 filters, unit mounted non-heat disconnect, return or smoke detector, Gross Cooling Capacity - 184,000 btu/hr,Sensible 118,000 btu/hr, Nominal CFM - 5,000 cfm # 13 ESP, 2 stage heat - 250,000/20,000 btu/hr. Provide unit with programmable heat-cool limit, 2-sets of throwaway filters 5 year compressor warranty, stainless steel heat exchangers, EER = 14, 1600# Electrical, Indoor Fan 5 hp, 64 MCA 50 MOPF 208v-50 Set minimum Outside air # 1600 cfm.

- HVAC-4 - Provide and install Trans 5 Ton standard efficiency rooftop unit, 208/60/3, low heat, motorized OA damper, standard access panels with 2" NERV 18 filters, unit mounted non-heat disconnect, Gross Cooling Capacity - 94,000 btu/hr, Sensible: 51,000 btu/hr, Nominal CFM - 1,200 cfm # 10 ESP, 2 stage heat - 80,000/16,000 btu/hr. Provide unit with programmable heat-cool limit, 2-sets of throwaway filters 5 year compressor warranty, steel heat exchangers, EER = 14, 1600# Electrical, Indoor Fan 3/4 hp, 20 MCA 50 MOPF 208v-50 Set minimum Outside air 210 cfm.

- EF-445 Brown Model 684 ceiling exhaust fan, Capacity-80 Cfm, Motor 120 v.
- EF-6 Brown Model 684 ceiling exhaust fan, Capacity-150 Cfm, Motor 120 v.
- EF-1 Brown Model 684 ceiling exhaust fan, Capacity-500 Cfm, Motor 120 v.

23. KITCHEN HOODS

- Kitchen Exhaust Hood-(Provided by owner)Flo-Aire Direct Model 7224-fx-2-psp-wall mounted exhaust hood w/supply plenum. Hood to be constructed of type 430 stainless steel. All joints and seams on the hood shall be liquid tight. The hood shall include ETL aluminum filters and vaporproof lights on 3 foot centers. A flush mounted control panel will include switched for lights and fans. The hood shall be fabricated in accordance with NFPA #96, Size 16'-0" x 4'-4" w/ 16'-0" x 14" wide supply plenum. The hood will be provided w/ a factory prepped fire suppression system and shall be in compliance with NFPA 17A. Piping plans will be provided by the supplier. Hood system to be tied into building fire alarm. Fire suppression system acceptance testing shall be in compliance with NFPA 17 and conducted in presence of a representative of the Mentor Fire Department.
- VERIFY SIZE exhaust cfm w/ manufacturers design program based on actual cooking equipment

- MUA-(Provided by owner) - Flo-Aire H-44250-50-mp direct fired gas make-up air unit, 208/60/3, 1400#
- Nominal CFM - 1600 cfm, modulating burner - 150,000 btu/hr input, Cooling capacity - 48,000 Btu/hr. Unit to be provide unit with condenser, refrigerant specialities, discharge air controller, 5 year compressor warranty,insul hood w/ EZ filter/Electrical/Indoor Fan 5 hp, Cond Section/4.2 MCA30 MOPF 208v-50 Set minimum Outside air # 1600 cfm.

- Hood fire suppression system - Annual R-120 wet agent system to include all detectors,pulley elbows,detection line conduit, agent tanks, regulator,excellent gas frame, release mechanism, piping, nozzles, electric and pressure switches, fusible links, liquid fire suppressant, remote pull stations completely, installed per NFPA # 96.

- EF-1-(Provided by owner) - Flo-Aire upblast exhaust fan, capacity 4000 cfm # 2.0 sp. Unit to be provided with roof curb,hinged access, grease trough, Motor, 2 hp 208v-50

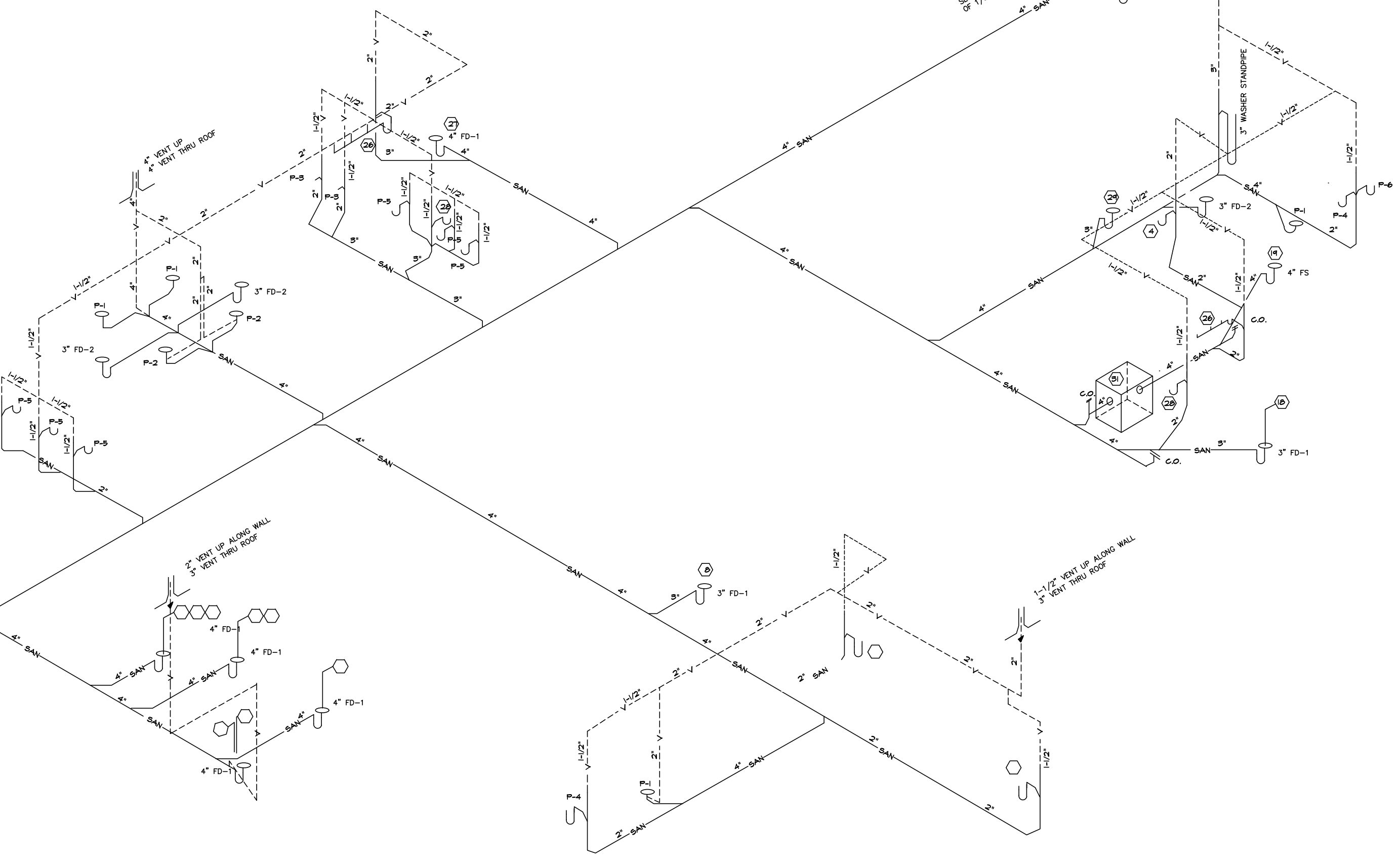
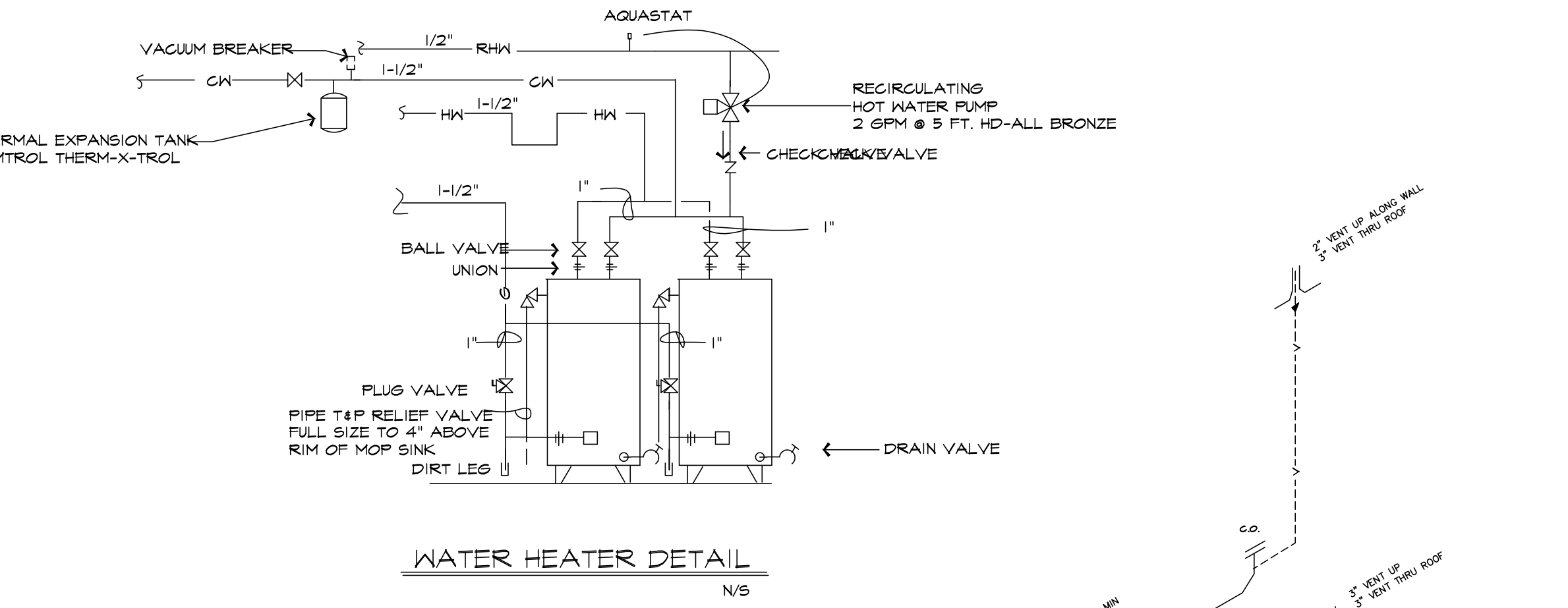
- Pizza Exhaust Hood-(Provided by owner)Flo-Aire Direct Model 7224-fx-2-psp-wall canopy exhaust hood w/supply plenum. Hood to be constructed of type 430 stainless steel. All joints and seams on the hood shall be liquid tight. The hood shall include ETL aluminum filters and vaporproof lights on 3 foot centers. A flush mounted control panel will include switched for lights and fans. The hood shall be fabricated in accordance with NFPA #96, Size 11'-0" x 6'-0" w/ 11'-0" x 14" wide supply plenum. The hood will be provided in compliance with NFPA 17A, Hood system to be tied into building fire alarm. Fire suppression system acceptance testing shall be in compliance with NFPA 17 and conducted in presence of a representative of the Mentor Fire Department.

- MUA-(Provided by owner) - Flo-Aire H-44250-50-mp direct fired gas make-up air unit, 208/60/3, 1400#
- Nominal CFM - 1100 cfm, modulating burner - 150,000 btu/hr input, Cooling capacity - 56,000 Btu/hr. Unit to be provide unit with condenser, refrigerant specialities, discharge air controller, 5 year compressor warranty,insul hood w/ EZ filter/Electrical/Indoor Fan 1 hp, Cond Section/4.1 MCA30 MOPF 208v-50 Set minimum Outside air # 1100 cfm.

- EF-2-(Provided by owner) - Flo-Aire upblast exhaust fan, capacity 2000 cfm # 1.0 sp. Unit to be provided with roof curb,hinged access, grease trough, Motor, 1 hp 208v-50

- Dishwasher Condensate hood-(Provided by owner) Flo-Aire Direct Model FXB wall mounted condensate exhaust hood. Hood to be constructed of type 430 stainless steel. All joints and seams on the hood shall be liquid tight. e hood shall be fabricated in accordance with UL 710. Size 6'-0" x 3'-0" VERIFY SIZE WITH ACTUAL DISHWASHER PROVIDED

- EF-3-(Provided by owner) - Flo-Aire upblast exhaust fan, capacity 600 cfm # .75 sp. Unit to be provided with roof curb,hinged access, grease trough, Motor, 1/2 hp 120v-10



REVISIONS	BY

JOHN D. STOPP ARCHITECT

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OF OHIO JOHNSON & SONS REGISTERED

JOHN D. STOPP
D.B.P.
#12432
EXPIRATION DATE 6/30/2023

CLEVELAND PIZZA CO. REMODELING

31222 VINE STREET
WILLOWICK, OHIO

MECHANICAL DETAILS-SPECIFICATIONS

DRAWN
JOHN D. STOPP

CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

JOB NO.
202044

SHEET

OF 4 SHEETS

DESIGN CRITERIA

GOVERNING BUILDING CODE

OHIO BUILDING CODE, 2017 PLUS AMENDMENTS

DESIGN LOADS

ASCE 7-16 - MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

ABBREVIATIONS

A.C.I.	- AMERICAN CONCRETE INSTITUTE
AF & FA	- AMERICAN FOREST & PAPER ASSOCIATION
A.I.S.C.	- AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.S.I.	- AMERICAN IRON AND STEEL INSTITUTE
A.N.S.I.	- AMERICAN NATIONAL STANDARD'S INSTITUTE
APA	- AMERICAN PLYWOOD ASSOCIATION
ASCE	- AMERICAN SOCIETY OF CIVIL ENGINEERS
A.S.T.M.	- AMERICAN SOCIETY FOR TESTING AND MATERIALS
A.W.S.	- AMERICAN WELDING SOCIETY
BCSI	- BUILDING COMPONENT SAFETY INFORMATION
C.Y.	- CUBIC YARD
FT.	- FOOT, FEET
K	- KIPS (1,000 POUNDS)
Lb.	- POUND
LVL	- LAMINATED VENEER LUMBER
MPGNT	- METAL PLATED CONNECTED WOOD TRUSSES
MPH	- MILES PER HOUR
NDS	- NATIONAL DESIGN STANDARD
O.B.C.	- OHIO BUILDING CODE
P.S.F.	- POUNDS PER SQUARE FOOT
P.S.I.	- POUNDS PER SQUARE INCH
TPI	- TRUSS PLATE INSTITUTE
W/C	- WATER TO CEMENT RATIO
WFCM	- WOOD FRAME CONSTRUCTION MANUAL
WTCA	- WOOD TRUSS COUNCIL OF AMERICA

SOILS INVESTIGATION

NONE
SEE "FOUNDATION" GENERAL NOTES

DESIGN LOADS: PER O.B.C. 1603

MINIMUM ROOF LIVE LOAD: PER OBC 1604 & ASCE 7, CHAPTER 4	
FLAT ROOFS (UNIFORM LOADS)	20 PSF.
CONCENTRATED LOAD	2,000 Lb.

ROOF SNOW LOAD: per OBC 1608 & ASCE 7, Chapter 7.

Ground Snow Load (snow belt area)	42 psf.
Exposure Coefficient	1.0
Thermal Factor	1.00
Occupancy of Building	11 (TYPICAL)
Importance Factor	1.0
Basic 0.25/12 SLOPED Roof Snow Load	30 psf.
Rain on Snow Load per ASCE 7	0 psf.

DRIFTED SNOW LOAD @ ROOF STEP:

DRIFTED SNOW & BASIC ROOF SNOW	50 PSF.
WIDTH OF DRIFT	6'-0"

ROOF DESIGN LIVE LOAD:

0.25/12 Sloped Roofs	30 psf (MINIMUM)
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ROOF DESIGN DEAD LOAD:

0.25/12 sloped Roofs	22 PSF.
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WIND LOADS: per O.B.C. 1604 & ASCE 7, Chapter 6.

Exposure Category	B
Occupancy of Building	11 (TYPICAL)
Importance Factor	1.00
BASIC WIND SPEED (3 SEC. GUST)	90 MPH (NOMINAL DESIGN WIND SPEED)
BASIC WIND SPEED (3 SEC. GUST)	115 MPH (ULTIMATE DESIGN WIND SPEED)
END ZONE	11 feet

SEISMIC CRITERIA: per OBC 1615 & ASCE 7, Chapters 11 through 14

0.2 Second Spectral Response Acceleration (Ss)	0.155 (WILLOWICK, OHIO 44095)
1.0 Second Spectral Response Acceleration (S1)	0.049 (WILLOWICK, OHIO 44095)
Site Class / Soil Classification	D
Spectral Response Coefficient (Sds)	0.185
Spectral Response Coefficient (sd1)	0.078
Occupancy of Building	11 (TYPICAL)
Importance Factor	1.0
Seismic Design Category	B

BASIC SEISMIC-FORCE RESISTING SYSTEM

ORDINARY PLAIN MASONRY SHEAR WALLS	
RESPONSE MODIFICATION FACTOR (R)	1.50
DEFLECTION AMPLIFICATION FACTOR (Cd)	1.25
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCES

GENERAL NOTES

CONSTRUCTION:

1. ALL DIMENSIONS AND ELEVATIONS RELATING TO EXISTING CONSTRUCTION OR GRADES MUST BE FIELD VERIFIED PRIOR TO THE LAYOUT, DETAILING OR FABRICATION OF ANY ELEMENT FOR THIS PROJECT.

2. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

3. GENERAL CONTRACTOR / SUBCONTRACTORS MUST PROVIDE AND INSTALL ADEQUATE TEMPORARY BRACING TO RESIST WIND LOADING ON STRUCTURAL COMPONENTS AND STRUCTURAL ASSEMBLAGES DURING THE ERECTION AND CONSTRUCTION PHASES.

4. GENERAL CONTRACTOR / SUBCONTRACTORS MUST LIMIT THE HEIGHT OF AND / OR PROVIDE MEANS FOR ADEQUATE DISTRIBUTION OF STORED / STACKED MATERIALS AND CONCENTRATED LOADS DURING THE ERECTION AND CONSTRUCTION PHASES TO INSURE THAT STRUCTURAL MEMBERS AND CONNECTIONS WILL NOT BE OVERSTRESSED.

5. THE ARCHITECT / ENGINEER WAIVES ANY AND ALL RESPONSIBILITY FOR THE DESIGN AND PERFORMANCE OF THIS STRUCTURE:
A. WITHOUT THE OWNER / GENERAL CONTRACTOR OBTAINING VERIFICATION OF THE SOIL PROPERTIES AS NOTED IN "FOUNDATION" GENERAL NOTES 1, 2, T, 10 & 11.
B. WITHOUT THE OWNER / GENERAL CONTRACTOR SUBMITTING FOR REVIEW SHOP DRAWINGS OR FOUNDATION AND MASONRY WALL REINFORCEMENT, LINTELS, STRUCTURAL STEEL AND M.P.C.A.N.T.

C. IN THE EVENT THAT ANYONE VARIES OR MODIFIES THE STRUCTURE FROM THAT SHOWN ON THIS SET OF DRAWINGS OR ON THE SHOP DRAWINGS REVIEWED BY THE ARCHITECT / ENGINEER.

FOUNDATIONS:

1. DESIGN BEARING PRESSURE HAS BEEN ASSUMED TO BE 2,000 PSF. ON NATURAL UNDISTURBED SOIL AND / OR ENGINEERED FILL.

GENERAL CONTRACTOR MUST RETAIN A CERTIFIED SOILS TESTING LABORATORY TO VERIFY FOUNDATION BEARING CAPACITY PRIOR TO THE PLACEMENT OF ANY CONCRETE.

SUBMIT REPORTS OF VERIFICATION TO ARCHITECT.

2. ALL SOILS WORK ON THIS PROJECT SHALL BE DONE IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS LISTED BY THE SOILS TESTING LAB SPECIFICALLY HIRED FOR THIS PROJECT.

3. PROVIDE SHEETING, SHORING AND BRACING AS REQUIRED TO PROTECT ADJACENT BUILDINGS, STREETS AND UTILITIES.

4. NOTIFY ARCHITECT OF ANY UNUSUAL SOIL CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

5. BOTTOM OF ALL EXTERIOR FOOTINGS TO BE MINIMUM 3'-6" BELOW FINISHED EXTERIOR GRADE FOR FROST PROTECTION LOWER BOTTOM OF FOOTING AS REQUIRED.

6. FOOTING STEPS MAY BE ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH MAXIMUM STEP OF TWO (2) FEET.

7. FOUNDATION BEARING SURFACES MUST BE INSPECTED AND APPROVED BY THE SOILS TESTING LABORATORY PRIOR TO THE PLACEMENT OF ANY CONCRETE. SUBMIT REPORTS OF INSPECTION AND APPROVAL TO ARCHITECT.

8. REMOVE AND FILL ALL SOFT SPOTS, AND FILL ACCIDENTAL OVER-EXCAVATIONS, WITH LEAN CONCRETE OR ENGINEERED BACKFILL OF DESIGN BEARING PRESSURE.

9. REMOVE ACCUMULATED WATER FROM SIDE-SUMPS ADJACENT TO FOOTING EXCAVATION.

10. ENGINEERED BACKFILL FOR SUPPORT OF FOUNDATIONS AND SLABS-ON-GRADE MUST BE PLACED IN STRICT ACCORDANCE WITH RECOMMENDATIONS SPECIFIED BY THE SOILS TESTING LABORATORY HIRED FOR THIS PROJECT.

11. ENGINEERED BACKFILL FOR SUPPORT OF FOUNDATIONS AND SLABS-ON-GRADE MUST BE PLACED UNDER THE SUPERVISION OF THE TESTING LABORATORY IN PLACE. IN-PLACE DENSITY TESTS TO VERIFY COMPACTION ARE REQUIRED. SUBMIT REPORTS OF VERIFICATION TO ARCHITECT.

12. COMPACT BACKFILL OVER FOOTINGS AND BENEATH SLABS-ON-GRADE TO 98% STANDARD DENSITY PER ASTM D698 AT +/- 2% OPTIMUM MOISTURE CONTENT.

CONCRETE:

1. CONCRETE DESIGN SPECIFICATIONS AND PLACEMENT SHALL BE IN CONFORMANCE WITH:

ACI 318-14 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.
ACI 301-20 - SPECIFICATIONS FOR STRUCTURAL CONCRETE.
ACI 308.1-14 - SPECIFICATION FOR HOT WEATHER CONCRETING.
ACI 308.1-16 - STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING.
ACI 302.1R-04 - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
ACI 308.1-11 - STANDARD SPECIFICATION FOR CURING CONCRETE

2. WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301-20 PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE, FARMINGTON HILLS, MICHIGAN, EXCEPT AS MODIFIED BY THESE CONTRACT DOCUMENTS.

CONCRETE TYPES	MINIMUM STRENGTH	MINIMUM CEMENT	MAX. W/C
LEAN CONCRETE FILL	1500 PSI	---	---
FOUNDATIONS	3000 PSI	470 LB/CY	.59
INTERIOR SLAB ON GRADE	4000 PSI	564 LB/CY	.50
EXTERIOR SLAB-ON-GRADE	4000 PSI	611 LB/CY	.45
OVERHEAD DOOR APRONS	ODOT CLASS C		
W/C	= WATER-TO-CEMENT RATIO		

4. USE 6% +/- 15% ENTRAINED AIR PER ASTM C260 IN ALL EXTERIOR CONCRETE EXPOSED TO WEATHER.

5. REINFORCING STEEL:
WELDED WIRE FABRIC PER ASTM A185, FLAT SHEETS ONLY, NO ROLLS
DEFORMED BARS PER ASTM A615, GRADE 60
LAP DEFORMED BARS 36 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

6. READY MIXED CONCRETE PER ASTM C94.

7. CONCRETE WITH SLUMPS GREATER THAN 4 INCHES MUST BE REJECTED, UNLESS A WATER REDUCING AGENT, PER ASTM C494, HAS BEEN ADDED TO INCREASE SLUMP BEYOND 4 INCHES.

8. SLAB ON GRADE ISOLATION JOINT MATERIAL (I.J.) TO BE 1/2" PREMOLDED JOINT FILLER PER ASTM D-1751.

9. COLD WEATHER CONCRETE CONSTRUCTION MUST CONFORM TO ALL REQUIREMENTS OF ACI 301 AND ACI 306.1

10. USE NON-STAINING CURING COMPOUND ON ALL FLAT OR FORMED SURFACES CONFORMING TO ALL REQUIREMENTS OF ACI 308.1.

11. EXPANSION ANCHORS INTO CONCRETE TO BE WEDGE TYPE, OR ADHESIVE ANCHORS INSTALLED USING THE HILTI HIT HY-200 SYSTEM

12. DO NOT INSTALL ADHERED GOODS TO THE SLAB ON GRADE UNTIL THE VAPOR TRANSMISSION RATES ARE AT OR BELOW THAT RECOMMENDED BY THE MANUFACTURER OF THE MATERIAL TO BE ADHERED.

MASONRY:

1. MASONRY DESIGN SPECIFICATIONS AND PLACEMENT SHALL BE IN CONFORMANCE WITH:

ACI 530-13 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES.
ACI 530.1-13 - SPECIFICATIONS FOR MASONRY STRUCTURES.

2. MASONRY CONSTRUCTION AND MATERIALS AND ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI-530.1-13 PUBLISHED BY THE MASONRY SOCIETY, BOULDER, COLORADO, THE AMERICAN CONCRETE ASSOCIATION, FARMINGTON HILLS, MICHIGAN, AND THE AMERICAN SOCIETY OF CIVIL ENGINEERS, RESTON VIRGINIA, EXCEPT AS MODIFIED BY THE REQUIREMENTS OF THESE CONTRACT DOCUMENTS

3. BRICK PER ASTM C216, GRADE SW, TYPE FBS, 6300 PSI
MINIMUM STRENGTH, FM = 2,400 PSI.

4. CONCRETE MASONRY UNITS PER ASTM C90, GRADE N, 1900 PSI
MINIMUM STRENGTH, FM = 1500 PSI.

5. MORTAR TO BE TYPE N, "MASONRY CEMENT," PER ASTM C270, PROPORTION SPECIFICATION.

6. GROUT PER ASTM C476, 2000 PSI STRENGTH.

7. COLLAR JOINT BETWEEN BRICK AND BLOCK AND BLOCK AND BLOCK OF COMPOSITE WALLS MUST BE MORTARED OR GROUTED SOLID.

8. REINFORCING STEEL:
WIRE FOR HORIZONTAL JOINT REINFORCEMENT PER ASTM A82, 9 GAUGE, GALVANIZED
USE LADUR TYPE JOINT REINFORCEMENT FOR SINGLE MYTHE WALLS.
USE LADUR TYPE JOINT REINFORCEMENT FOR COMPOSITE WALLS.

DEFORMED BARS PER ASTM A615, GRADE 60.
LAP DEFORMED BARS 48 BAR DIAMETERS, UNLESS NOTED OTHERWISE.

9. COLD WEATHER CONCRETE MASONRY CONSTRUCTION MUST CONFORM TO ALL REQUIREMENTS OF ACI 530.1.

10. MAXIMUM SPACING OF VERTICAL CONTROL JOINTS TO BE 24'-0" O.C. OR 1/3 X THE HEIGHT OF THE WALL, WHICHEVER IS SMALLER.

11. CORNERS TO BE TIED BY MASONRY BOND OR WITH GALVANIZED STRAP ANCHORS 1/4" X 1" X 24" WITH 2" LONG 90 DEGREE BEND EACH END.

12. EXPANSION ANCHORS INTO MASONRY TO BE SLEEVE TYPE, OR ADHESIVE TYPE INSTALLED USING THE HILTI HIT HY-TO SYSTEM.

STRUCTURAL AND MISCELLANEOUS STEEL:

1. STEEL DESIGN SPECIFICATIONS, CONNECTIONS, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH:

AISC 325-14 - STEEL CONSTRUCTION MANUAL, ALLOWABLE STRESS DESIGN, 13TH EDITION.
ANSI / AISC 360-16 - SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS
AISC 303-16 - CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
AISC 348-14 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A440 BOLTS.
AWS D11-2018 - STRUCTURAL WELDING CODE, STEEL

2. DESIGN ON THIS PROJECT FOLLOWS THE ALLOWABLE STRENGTH DESIGN METHOD. ALL REACTIONS ARE FROM ALLOWABLE STRENGTH DESIGN LOAD COMBINATIONS.

3. ALL ROLLED WIDE FLANGE SHAPES PER ASTM A992, 50 KSI YIELD STRENGTH.

4. ALL OTHER ROLLED SHAPES, PLATES AND BARS PER ASTM A36, 36 KSI YIELD STRENGTH.

5. PIPE PER ASTM A501, 36 KSI YIELD STRENGTH.
TUBE PER ASTM A500, GRADE B, 46 KSI YIELD STRENGTH

6. WELDING ELECTRODES TO BE ETOXX COATED TYPE, LOW HYDROGEN CLASSIFICATION. ALL WELDING PER "STRUCTURAL WELDING CODE, AWS D11."

7. ANCHOR RODS INTO CONCRETE OR MASONRY PER ASTM F1554, GRADE 36.

8. BOLTS PER ASTM A325, BEARING TYPE (N) CONNECTIONS. SNUG TIGHT.

9. STANDARD AISC CONNECTIONS SHALL BE PROVIDED AS SPECIFIED IN NOTE 10 BELOW FOR ALL CONNECTIONS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

10. ALL BOLTED AND WELDED SHEAR TYPE END CONNECTIONS SHALL BE IN ACCORDANCE WITH THE DATA AND TABLES IN PART 10 "DESIGN OF SIMPLE SHEAR CONNECTIONS" OF THE AISC STEEL CONSTRUCTION MANUAL, ASD. THE TABLES OF "MAXIMUM TOTAL UNIFORM LOADS" IN PART 3 OF THE AISC MANUAL SHALL BE USED TO SELECT BEAM REACTIONS FOR CONNECTION DESIGN IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
REACTION = TOTAL ALLOWABLE UNIFORM LOAD W IN KIPS DIVIDED BY 2.

11. ALL CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM REACTION OF 6 KIPS.

12. ALL STEEL FRAMING AND LINTELS (ROLLED SHAPES, BOTTOM PLATES, BEARING PLATES AND ANCHOR BOLTS) IN EXTERIOR WALLS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE HOT DIP GALVANIZERS ASSOCIATION, ASTM A133.

STRUCTURAL WOOD

1. WOOD DESIGN SPECIFICATIONS, CONNECTION, FABRICATION, AND ERECTION SHALL BE IN CONFORMANCE WITH:

ANSI/AF & PA NDS 18 - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
ANSI/AF & PA NDS 18 - NDS SPECIFICATIONS FOR WOOD CONSTRUCTION
ANSI/TPI 1-14 - NATIONAL DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSS (MPCNT) CONSTRUCTION

BCSI - GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RETRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES BY THE NTC&A & TPI, 2018 EDITION

APA - PLYWOOD DESIGN SPECIFICATION, 2007

2. CONSTRUCTION AND DETAILS SHALL CONFORM TO:
AF & PA - 2001 - DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION
AF & PA - WFCM 2018 - WOOD FRAME CONSTRUCTION MANUAL.

3. NAILING PER O.B.C. TABLE 2304-101 - FASTENING SCHEDULE

4. CONNECTION HARDWARE AND FASTENERS TO BE GALVANIZED STEEL.

5. ALL WOOD EXCEPT FOR EXTERIOR TREATED LUMBER, SHALL BE A MIN. OF 2" ABOVE GRADE PER CODE.

6. ALL EXPOSED LUMBER OR LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED/MOLMANIZED

7. DESIGN VALUES LISTED ARE FOR NORMAL LOAD DURATION UNDER DRY CONDITIONS, UNO. MULTIPLY DESIGN VALUES BY ALL APPLICABLE ADJUSTMENT FACTORS.

8. ALL WALL STUDS AND BUILD-UP POSTS SHALL BE A MINIMUM OF NO.2 GRADE, HEM FIR (NORTH) OR NO. 1 GRADE, SOUTHERN PINE OR BETTER (E= 1,600,000 PSI).

9. POST & TIMBER LUMBER (5X5 AND LARGER) TO BE SOUTHERN PINE, NO. 1 DENSE GRADE OR BETTER OR EQUIVALENT

FC = 475 PSI
E = 1,600 KSI
Fb = 1550 PSI
Fg = 1690 PSI

10. PROVIDE HORIZONTAL BRACING IN STUD WALLS AT MAXIMUM VERTICAL SPACING OF 4'-0"

11. WALL SHEATHING TO BE A.P.A. RATED SHEATHING, 16/0 EXPOSURE 1 CONFORMING TO U.S. PRODUCT STANDARD PS 1-07, THICKNESS AS SPECIFIED ON ARCHITECTURAL DRAWINGS. NAILING: USE 8d COMMON @ 6" O.C.

12. LAMINATED VENEER LUMBER (LVL) TO BE MICROLAM LUMBER BY TRUSS JOIST MACMILLIAN, OR EQUIVALENT.
Fv = 285 PSI
Fb = 2600 PSI
E = 1,900,000 PSI

13. ALL RAFTERS, JOISTS AND HEADERS SHALL BE NO. 2 GRADE, HEM-FIR (NORTH) OR NO. 1 GRADE, SOUTHERN PINE, OR BETTER (E = 1,600,000 PSI).

14. METAL PLATE CONNECTED WOOD TRUSS MEMBER (MPCNT) MAY BE MACHINE STRESS RATED STRUCTURAL LUMBER AS REQUIRED FOR DESIGN LOADS, OR SHALL BE IN CONFORMANCE WITH NOTE 13 ABOVE.

15. METAL PLATE CONNECTED WOOD ROOF TRUSSES DESIGN LOADS: (MPCNT)
TOP CHORD LIVE LOAD = 30 PSF (FOR BASIC ROOF DESIGN LIVE LOAD)
TOP CHORD LIVE LOAD = 50 PSF (FOR TOTAL SNOW LOAD @ ROOF STEPS)

TOP CHORD DEAD LOAD = 12 PSF

BOTTOM CHORD LIVE LOAD = 0 PSF

BOTTOM CHORD DEAD LOAD = 10 PSF

16. METAL PLATE CONNECTED WOOD TRUSS PERMISSABLE DEFLECTION:

MAXIMUM DEFLECTION SHALL BE LESS OR EQUAL TO: SPAN / 240 (FOR 100 % LL + 50% DL)

17. ROOF SHEATHING TO BE A.P.A. RATED SHEATHING, 32/16 EXPOSURE 1 CONFORMING TO U.S. PRODUCT STANDARD PS 1-07, THICKNESS AS SPECIFIED ON ARCHITECTURAL DRAWINGS. NAILING: USE 8d COMMON @ 6" O.C.

SPECIAL INSPECTIONS:

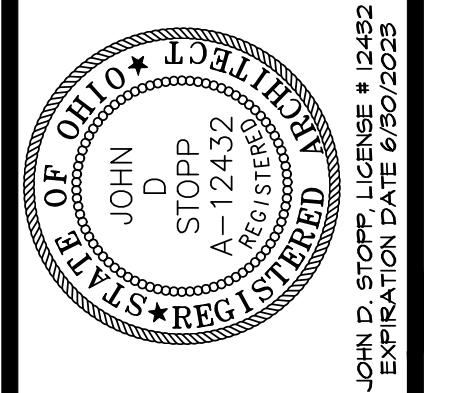
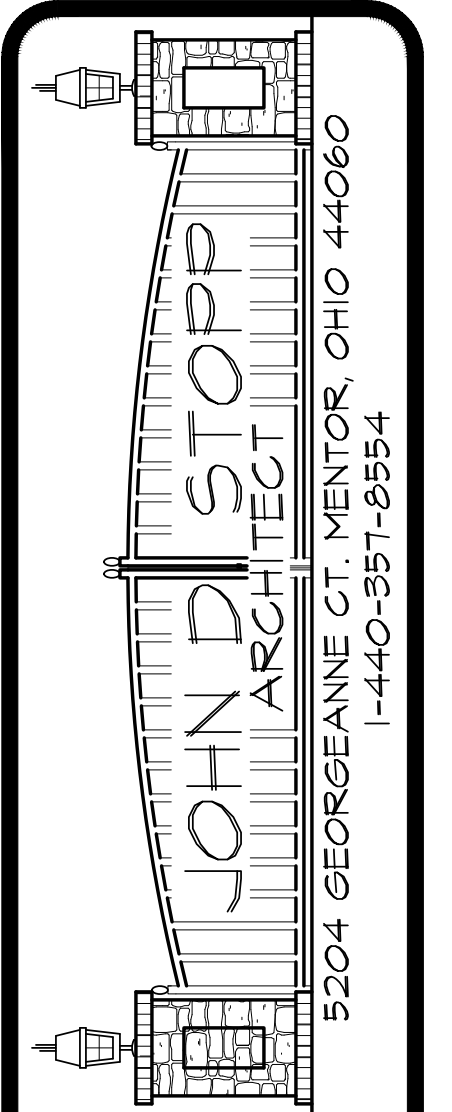
THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER OBC SECTION 1701. CONTRACTOR TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACTOR

ELEMENT	SPECIFICATION / DESIGN VALUE / INSPECTION
SOILS	
SOIL BEARING CAPACITY	2,000 PSF.
SOIL COMPACTION, AT +/- 2% OPTIMUM MOISTURE	95% ASTM D698
FOUNDATION BEARING SURFACES	VISUAL
CONCRETE	
CONCRETE DENSITY, ASTM C-138	145 PSF NORMAL WEIGHT
CONCRETE SLUMP (1 PER 50 CY OR FRACTION)	4" MAX. ASTM C-143
% ENTRAINED AIR FOR EXTERIOR CONCRETE	6% +/- ASTM C-231
VERIFY REINFORCING SIZE AND PLACEMENT	ASTM A-615, GRADE 60
COMPRESSIVE STRENGTH AT 7 AND 28 DAYS	ASTM C-31 AND C-38
FOOTINGS:	3,000 PSI.
SLAB ON GRADE	4,000 PSI.
SLAB ON METAL FORM DECK	4,000 PSI.
COLD AND HOT WEATHER CONSTRUCTION	ACI 301, ACI 306, AND ACI 305.1
MASONRY	
MORTAR TYPE, ASTM C-109 AND C-270	TYPE S, PROPORTION SPEC
GROUT STRENGTH AT 28 DAYS, ASTM C-1019 & C-476	2,000 PSI.
FRESH STRENGTH AT 28 DAYS, ASTM C-1314	2,000 PSI.
VERIFY REINFORCING SIZE AND PLACEMENT	ASTM A-615 GRADE 60
COLD AND HOT WEATHER CONSTRUCTION	ACI 530.1
STEEL	
WELDS PER AWS - D11	VISUAL
BOLTED CONNECTIONS	AISC 348, SECTION 9
PRE-ENGINEERED STEEL BUILDING	ALL ITEMS REQUIRING SPECIAL INSPECTION SHALL BE LISTED BY THE PRE-ENGINEERED METAL BUILDING MANUF.
WOOD / TIMBER / TRUSSES	
VERIFY LUMBER GRADES	VISUAL
LIGHT GAUGE METAL CONNECTORS	VISUAL
SHEAR WALL NAILING PATTERN	VISUAL
ROOF TRUSS BRACING AND ANCHORAGE	VISUAL
ROOF DIAPHRAGM NAILING PATTERN	VISUAL

NOTES

- CONSTRUCTION INSPECTIONS LISTED ARE IN ADDITION TO THE CALLED INSPECTIONS REQUIRED BY OBC. AS AMENDED, SPECIAL INSPECTIONS IS NOT A SUBSTITUTE FOR INSPECTIONS BY LOCAL BUILDING DEPARTMENT. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE LOCAL BUILDING INSPECTORS IS SUBJECT TO REMOVAL OR EXPOSURE AT CONTRACTORS EXPENSE.
- CONTINUOUS INSPECTIONS IS ALWAYS REQUIRED DURING PERFORMANCE OF THE WORK UNLESS OTHERWISE SPECIFIED.
- THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE LOCAL BUILDING DEPARTMENTS TO PERFORM THE TYPES OF INSPECTIONS SPECIFIED.
- GENERAL CONTRACTOR TO NOTIFY BUILDING DEPARTMENT OF SPECIAL INSPECTORS NAMES AND CONTACT INFORMATION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OF INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ALL WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
- SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD.

REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	



CLEVELAND PIZZA CO. ADDITION

3122 VINE STREET
WILLOWICK, OHIO

STRUCTURAL NOTES / SPECIFICATIONS

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE TEXT DOCUMENT
JOB NO. 2020444
SHEET
S
OF 3
SHEETS

DRAWN
JOHN D. STOFF

CHECKED

DATE
JULY 19, 2022

SCALE
NTS

JOB NO.
202044

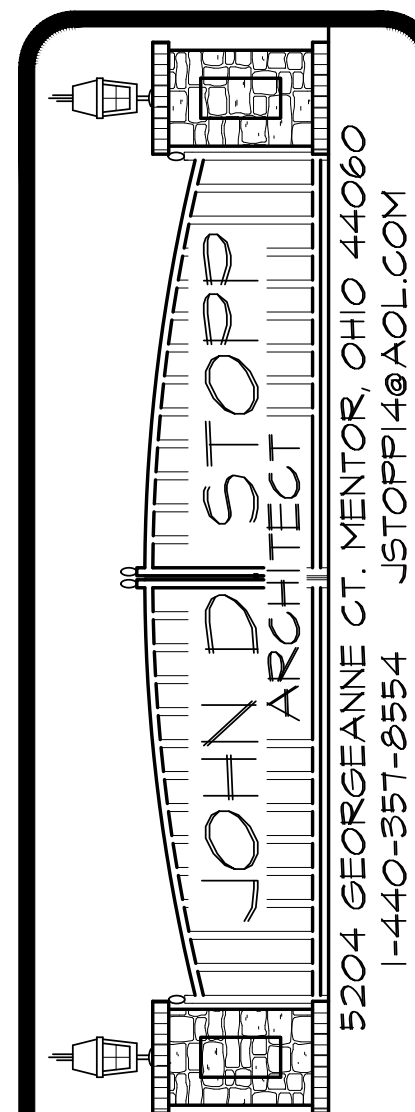
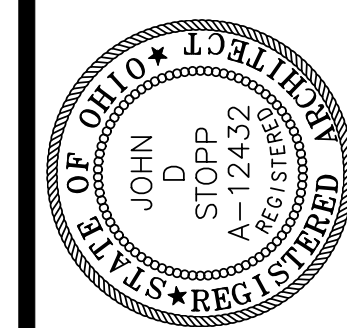
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OF 3

SHEETS

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REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	

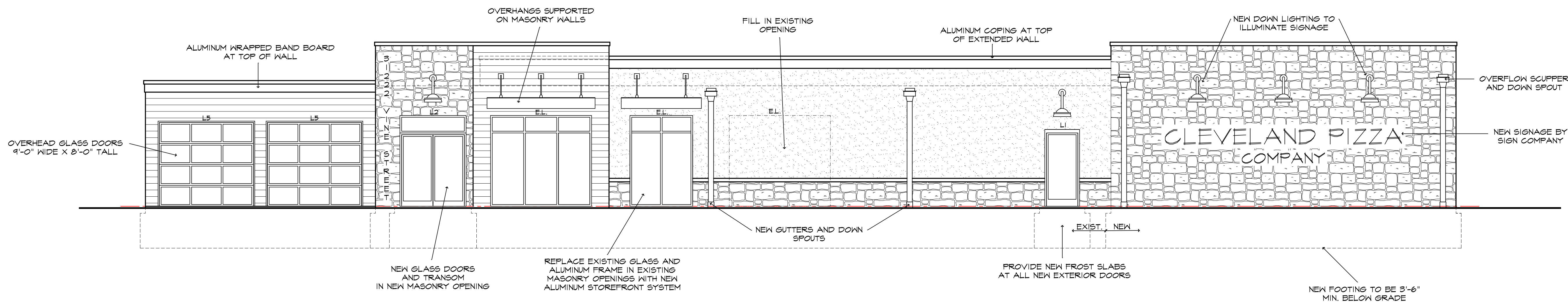
5204 GEORGEANE CT. MENTOR, OHIO 44060
1-440-351-8554 J5STOPP4@aol.comJOHN D. STOPP
REGISTERED PROFESSIONAL ENGINEER
STATE OF OHIO
LICENSE # 12432
EXPIRATION DATE 6/30/2023

CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

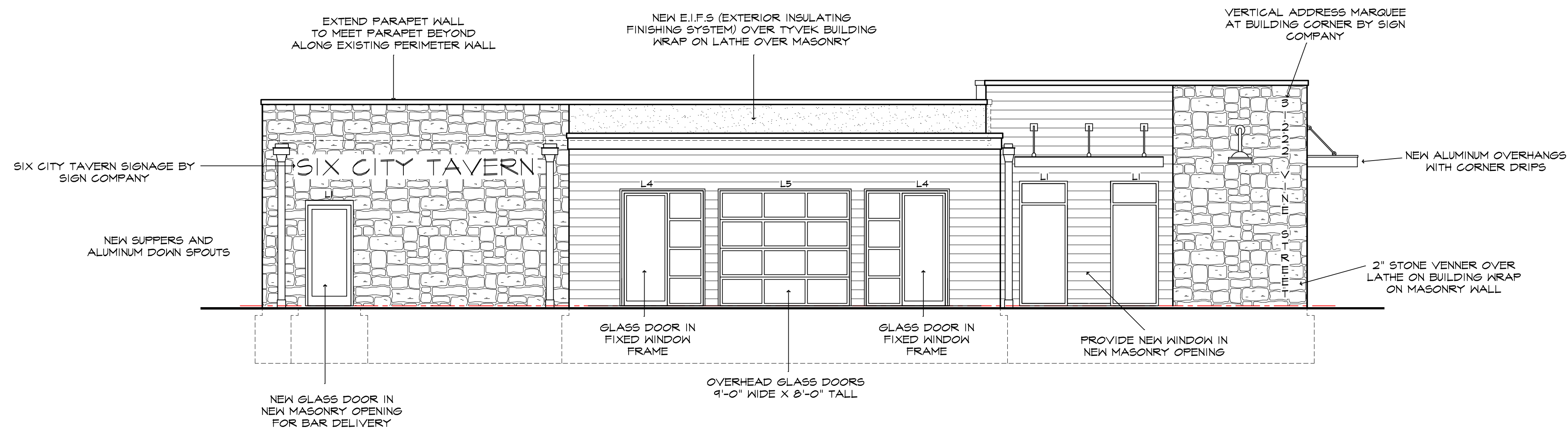
NORTH / WEST ELEVATIONS

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/16" = 1'-0"
JOB NO. 202044
SHEET
OF 11
SHEETS



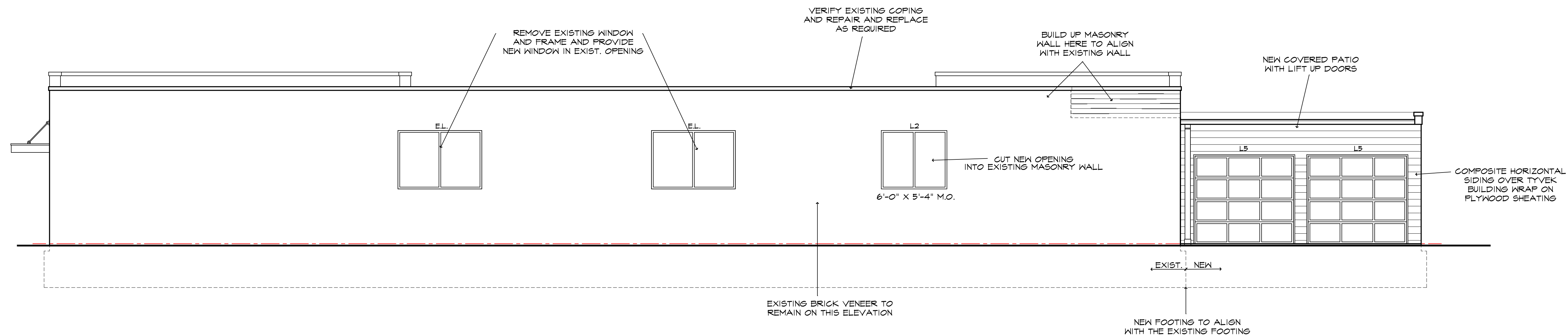
WEST ELEVATION

3/16"

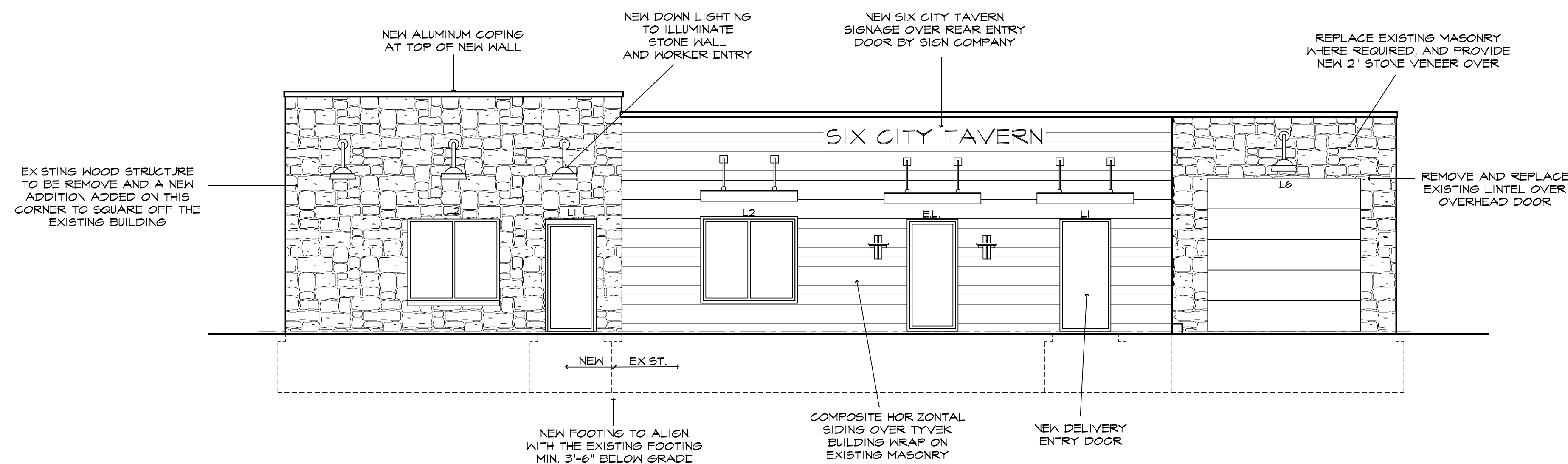
EL. = EXISTING LINTEL
LX = NEW LINTEL
SEE LINTEL SCHEDULE ON SHEET A5

NORTH ELEVATION (VINE STREET FACING ELEVATION)

3/16"



EAST ELEVATION 3/16"
EL. = EXISTING LINTEL
LX = NEW LINTEL
SEE LINTEL SCHEDULE ON SHEET A5



SOUTH ELEVATION 3/16"
EL. = EXISTING LINTEL
LX = NEW LINTEL
SEE LINTEL SCHEDULE ON SHEET A5
L6 = REPLACE EXISTING DETERIORATED LINTEL WITH NEW L6 LINTEL

REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	

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CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

SOUTH / EAST ELEVATIONS

DRAWN
JOHN D. STOPP

CHECKED

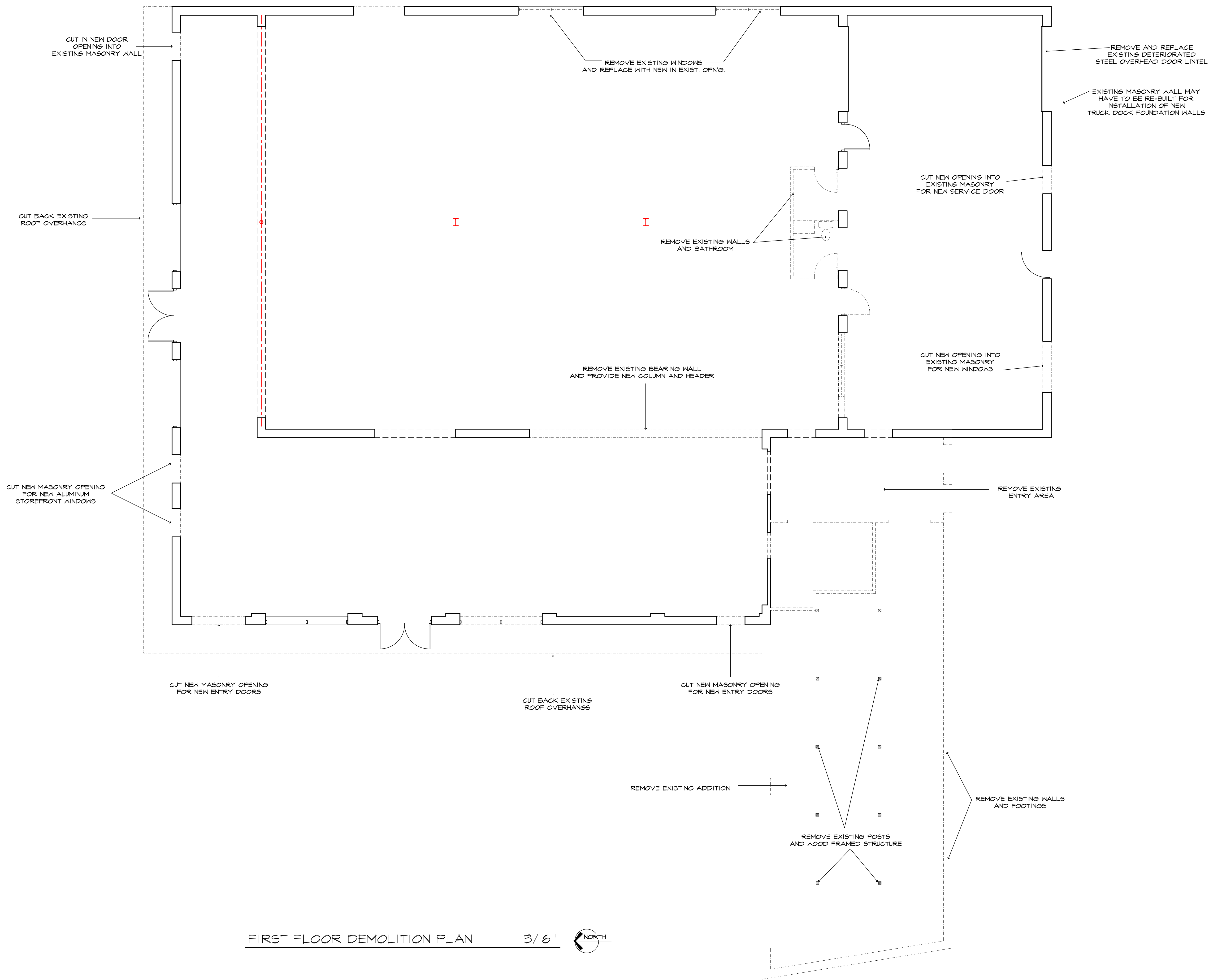
DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

JOB NO.
202044

SHEET
A2

OF 11 SHEETS



FIRST FLOOR DEMOLITION PLAN

3/16"



REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	

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JOHN D. STOPP
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REGISTERED PROFESSIONAL ENGINEER
EXPIRATION DATE 9/30/2023

CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

DEMOLITION PLAN

DRAWN
JOHN D. STOPP

CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

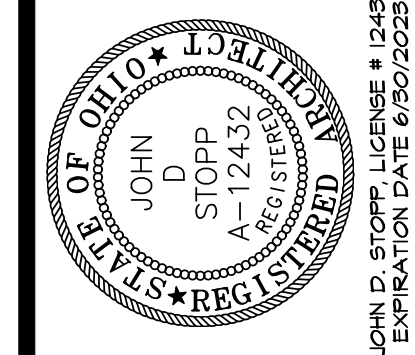
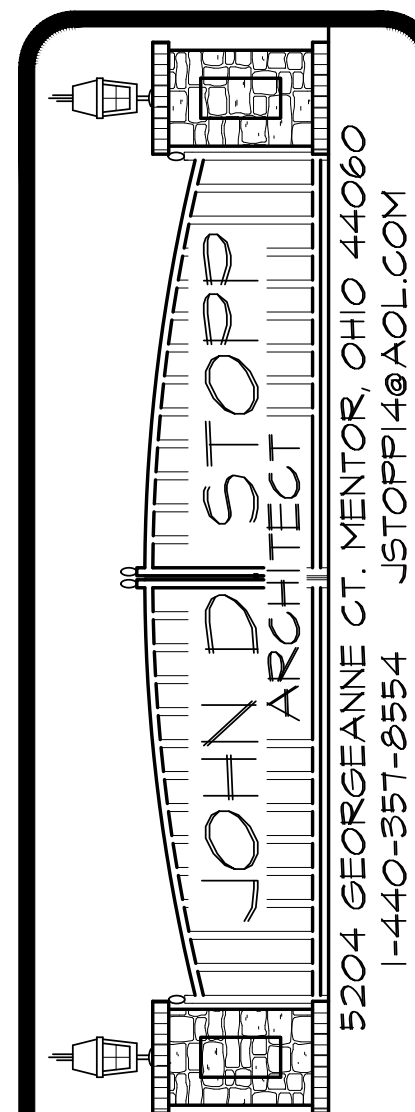
JOB NO.
202044

SHEET

A3

OF 11 SHEETS

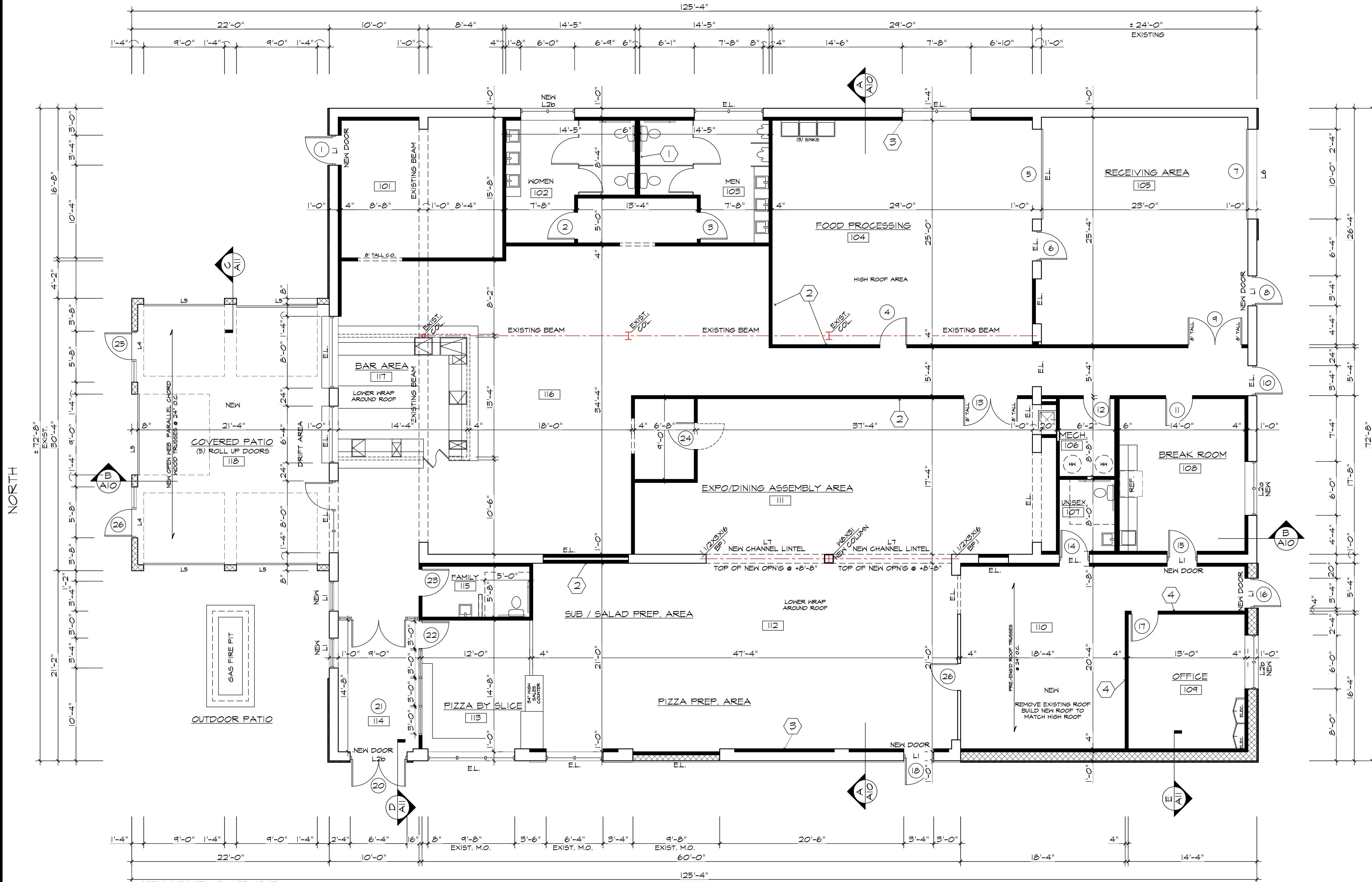
REVISIONS	BY
FOR CONSTRUCTION	
JULY 19, 2022	
REVISED NO DOCK	
AUGUST 29, 2022	



CLEVELAND PIZZA CO. REMODELING
3122 VINE STREET
WILLOWICK, OHIO
FIRST FLOOR PLAN

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/16" = 1'-0"
JOB NO. 202044
SHEET A5

EAST



NEW LINTEL SCHEDULE

- L1 = 3 - ANGLES 4" X 3 1/2" X 5/16" (LLV) X 4'-4" LONG (GALVANIZED) (3'-4" M.O.)
L2a = 3 - ANGLES 6" X 3 1/2" X 5/16" (LLV) T'-4" LONG (GALVANIZED) (6'-0" M.O.)
L2b = 3 - ANGLES 5" X 3 1/2" X 5/16" (LLV) T'-4" & T'-8" LONG (GALVANIZED) (6'-0" & 6'-4" M.O.)
L4 = 2 - ANGLES 5" X 3 1/2" X 5/16" (LLV) T'-0" LONG (GALVANIZED) (5'-8" M.O.)
L5 = W 8X15 X 10'-4" W/ 3/8"XT" BOTTOM PLATE X 8'-11 1/2" (GALVANIZED) (9'-0" M.O.)
L6 = REPLACE EXISTING LINTEL & ANGLE W/ NEW W 8X18 X 11'-4" W/ 5/16" X 11" BOTTOM PLATE X 9'-11 1/2" & 3/8" X 8" X 8" END BEARING PLATES (ALL GALVANIZED)
L7 = 2 - C12X20.7 CHANNELS BOLTED TO EACH SIDE OF 12" MASONRY WALL W/ 3/4" DIA. THRU BOLTS @ 24" O.C. THREAD THRU & 3X3X1/4 @ 2'-8" O.C. ON TOP OF CHANNELS, GROUT POCKETS SOLID. INSTALL COLUMN & END BASE PLATES CUT OUT WALL & WELD 3/8X16 CONTINUOUS BOTTOM PLATE TO BOTTOM OF CHANNELS SEE CROSS SECTION A-A ON SHEET A10

FIRST FLOOR PLAN

- EXISTING WALLS TO REMAIN
EXISTING WALLS TO BE REMOVED
NEW STUD WALLS
EL. = EXISTING LINTEL TO REMAIN
LX = NEW LINTELS, SEE LINTEL SCHEDULE FOR SIZES
SEE SHEET A6 FOR EXISTING & NEW ROOF FRAMING
W8X31 COLUMN TO HAVE 1 1/2" X 8" X 16" CAP PLAT & 1" X 15" X 15" BASE PLATE
- NEW MASONRY WALLS
EXISTING WALLS TO REMAIN
EXISTING WALLS TO BE REMOVED

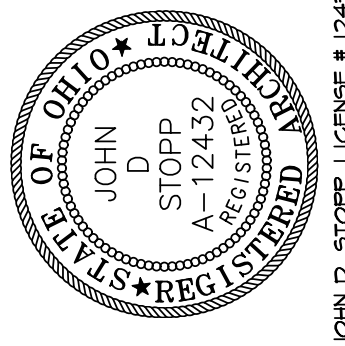
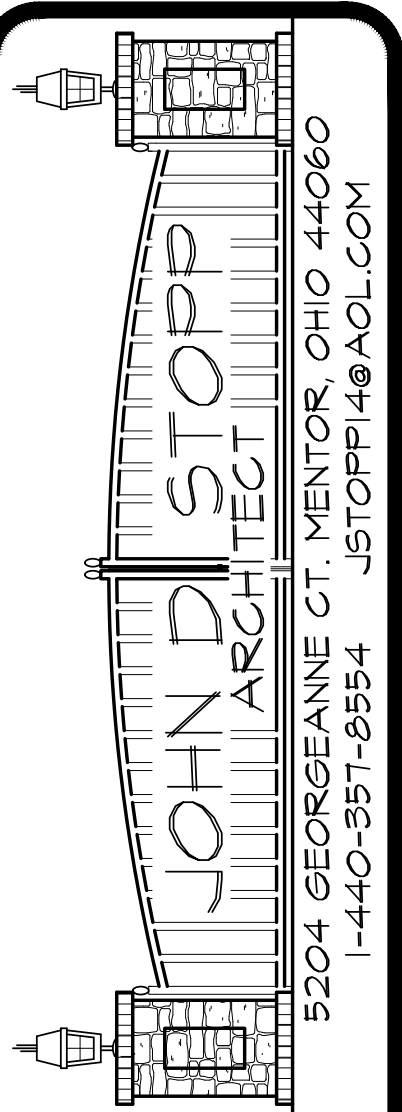
WEST

3/16"



SOUTH

REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	



CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

ROOF FRAMING PLAN

DRAWN
JOHN D. STOPP

CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

JOB NO.
202044

SHEET

OF 11

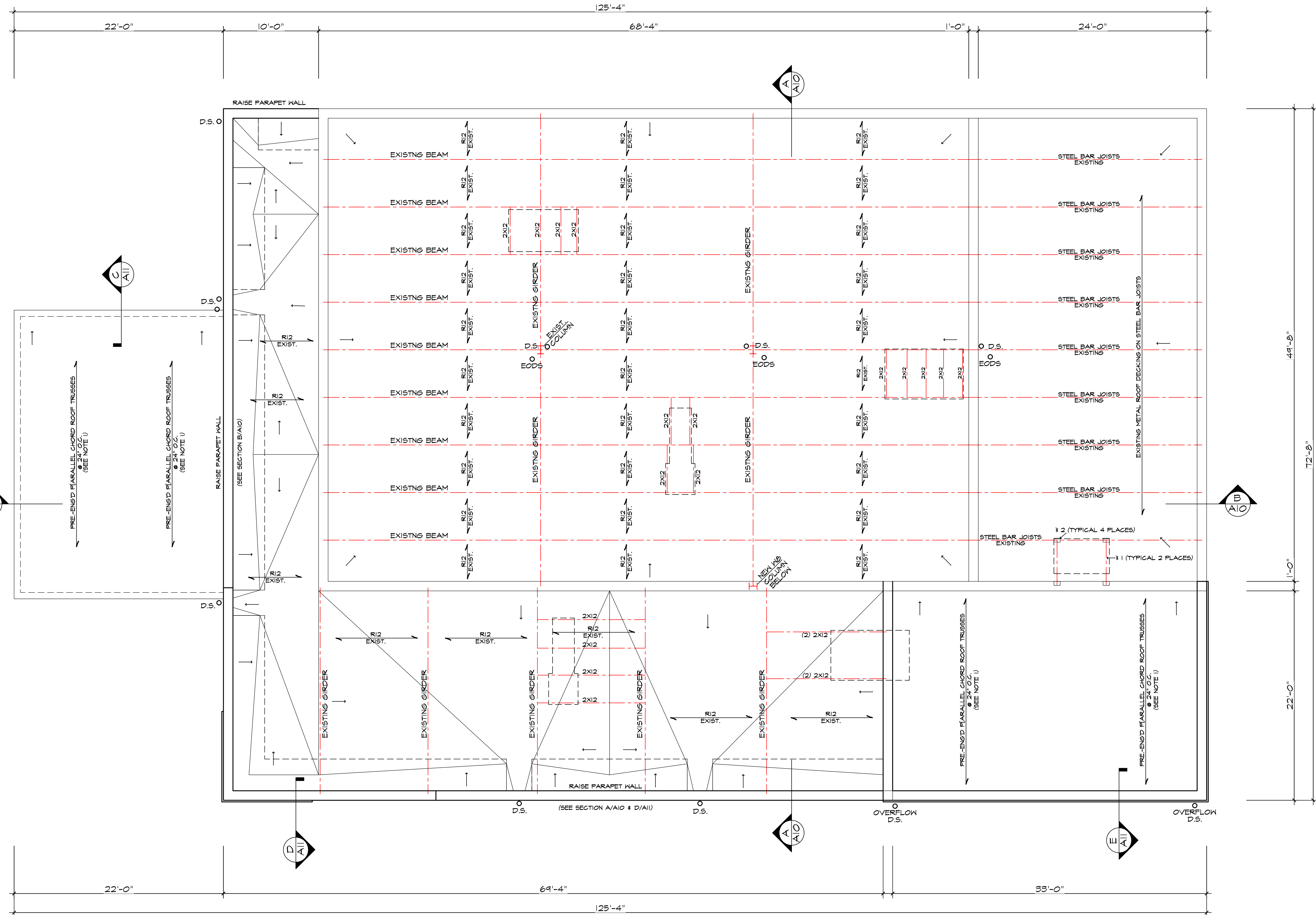
SHEETS

NORTH

SOUTH

EAST

WEST



ROOF FRAMING PLAN

3/16"



NOTE 1: PARALLEL CHORD, OPEN WEB, WOOD ROOF TRUSSES TO BE DESIGNED FOR 30 PSF ROOF SNOW
22 PSF ROOF DESIGN LOADS

- 1 = 5" X 3" X 5/16", A36, STEEL ANGLE
2 = 4" X 4" X 5/16", A36, STEEL ANGLE

REVISIONS	BY
FOR CONSTRUCTION	
JULY 19, 2022	
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AUGUST 29, 2022	

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EXPIRATION DATE 6/30/2023

CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

REFLECTED CEILING PLAN

DRAWN
JOHN D. STOPP

CHECKED

DATE
JULY 19, 2022

SCALE
3/16" = 1'-0"

JOB NO.
202044

SHEET

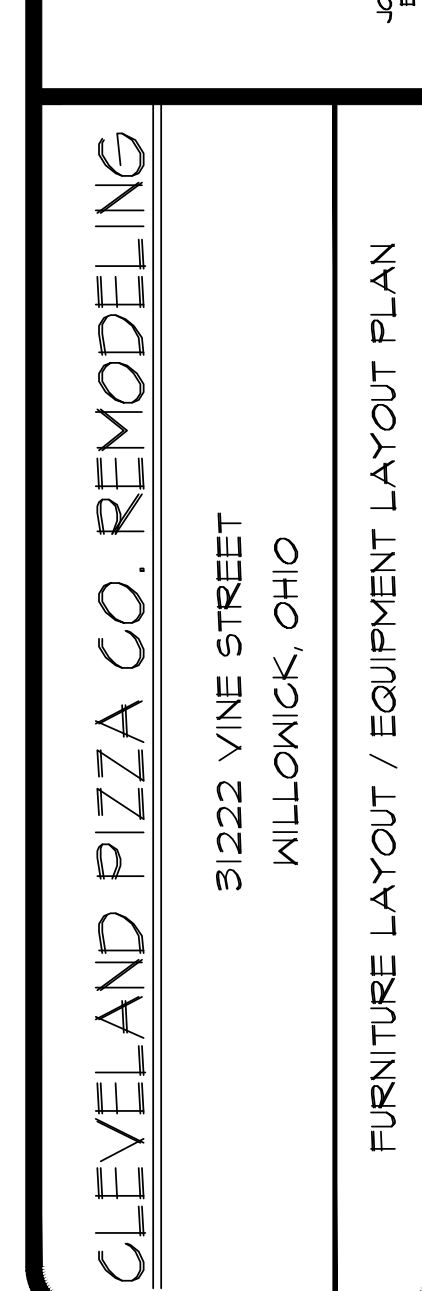
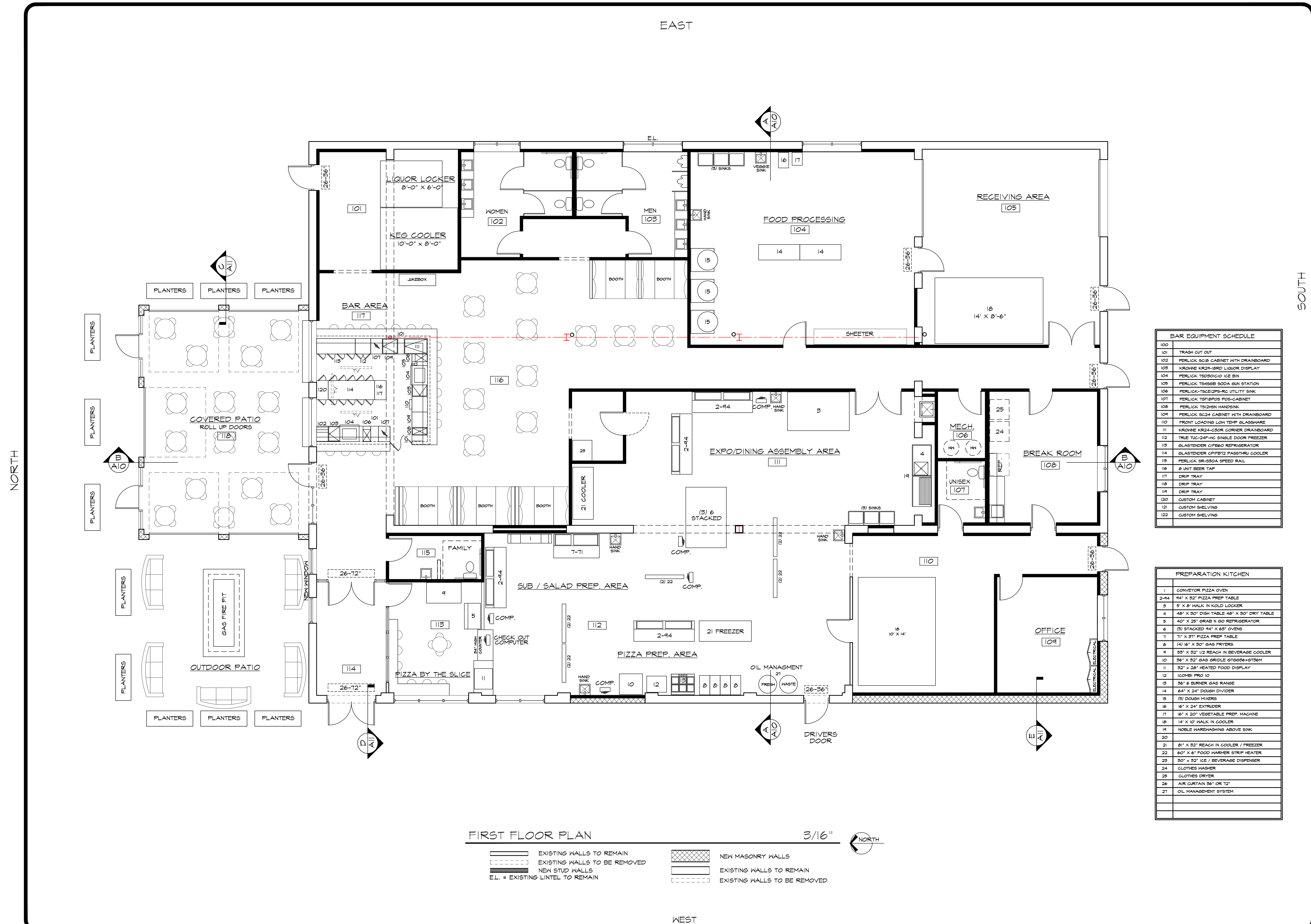
OF 11

SHEETS



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Pa

ROOM FINISH SCHEDULE									
F.R.P. = FIBERGLASS REINFORCED PLASTIC									
ROOM #	ROOM NAME	FLOORING	BASEBOARD	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	REMARKS
101	COOLER AREA	SEALED CONCRETE	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	COOLER ALCOHOL STORAGE AREA
102	WOMEN'S BATHROOM	LVT	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	WOMEN'S BATHROOM FOR RESTAURANT
103	MEN'S BATHROOM	LVT	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	MEN'S BATHROOM FOR RESTAURANT
104	FOOD PROCESSING	EPOXY ON CONCRETE	6" VINYL COVE	FRP PANEL	FRP PANEL	FRP PANEL	FRP PANEL	9' A.F.F. F.R.P. 2X2' DROPPED CEILING	FOOD PROCESSING AREA
105	RECEIVING AREA	EPOXY ON CONCRETE	6" VINYL COVE	FRP PANEL	FRP PANEL	FRP PANEL	FRP PANEL	9' A.F.F. F.R.P. 2X2' DROPPED CEILING	NEW RECESSED DOCK LEVELER AND RECESS CEILING GRID FOR OVERHEAD DOOR TRACK
106	MECHANICAL ROOM	SEALED CONCRETE	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPSUM ± 11'-4" EXIST.	NEW MECHANICAL ROOM
107	EMPLOYEE BATHROOM	LVT	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	EMPLOYEE UNISEX BATHROOM
108	EMPLOYEE BREAKROOM	LVT	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	EMPLOYEE BREAK ROOM
109	OFFICE	LVT	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	OFFICE
110	WALK IN COOLER AREA	EPOXY ON CONCRETE	6" VINYL COVE	FRP PANEL	FRP PANEL	FRP PANEL	FRP PANEL	9' A.F.F. DROPPED CLG.	WALK IN COOLER AREA
111	DINING ASSEMBLY AREA	EPOXY ON CONCRETE	6" VINYL COVE	FRP PANEL	FRP PANEL	FRP PANEL	FRP PANEL	9' A.F.F. DROPPED CLG.	DINING FOOD ASSEMBLY AREA
112	FOOD PREP. AREA	EPOXY ON CONCRETE	6" VINYL COVE	FRP PANEL	FRP PANEL	FRP PANEL	FRP PANEL	9' A.F.F. DROPPED CLG.	PIZZA / SALAD PREPARATION AREA
113	PIZZA BY THE SLICE	LVT	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	EAT IN & PIZZA PICK UP AREA
114	FOYER	LVT	7 1/2" WOOD	PAINTED GYPBOARD	GLASS WALLS	GLASS WALLS	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	EAT IN & PIZZA PICK UP AREA
115	FAMILY BATHROOM	LVT	6" VINYL COVE	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	FAMILY / SINGLE USE BATHROOM
116	DINING AREA	LVT	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	DINING ROOM AREA TABLES, BOOTHS AND CHAIRS
117	BAR AREA	LVT	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	9' A.F.F. DROPPED CLG.	BAR AREA WITH COUNTER & STOOL SEATING
118	COVERED PATIO	SEALED CONCRETE	7 1/2" WOOD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	PAINTED GYPBOARD	10' A.F.F. GYP. BOARD	COVERED PATIO W/ ROLL UP DOORS
EXIST.									

DOOR SCHEDULE

KEY: ALUM = ALUMINUM, HM = HOLLOW METAL, SW = SOLID WOOD, E = EXISTING

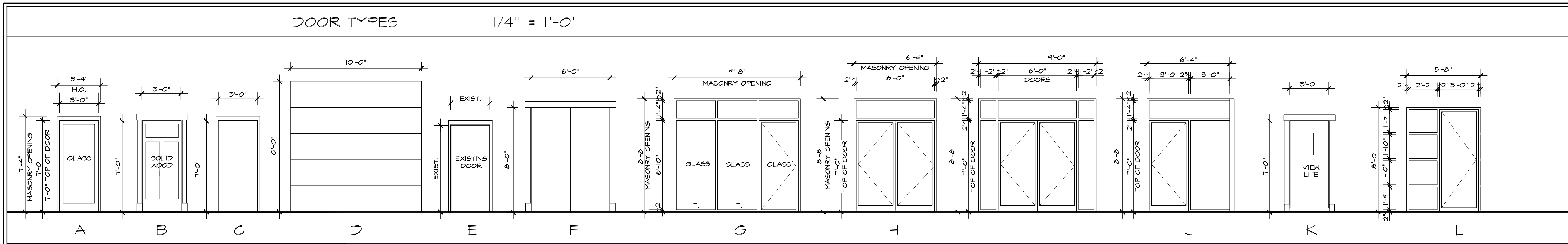
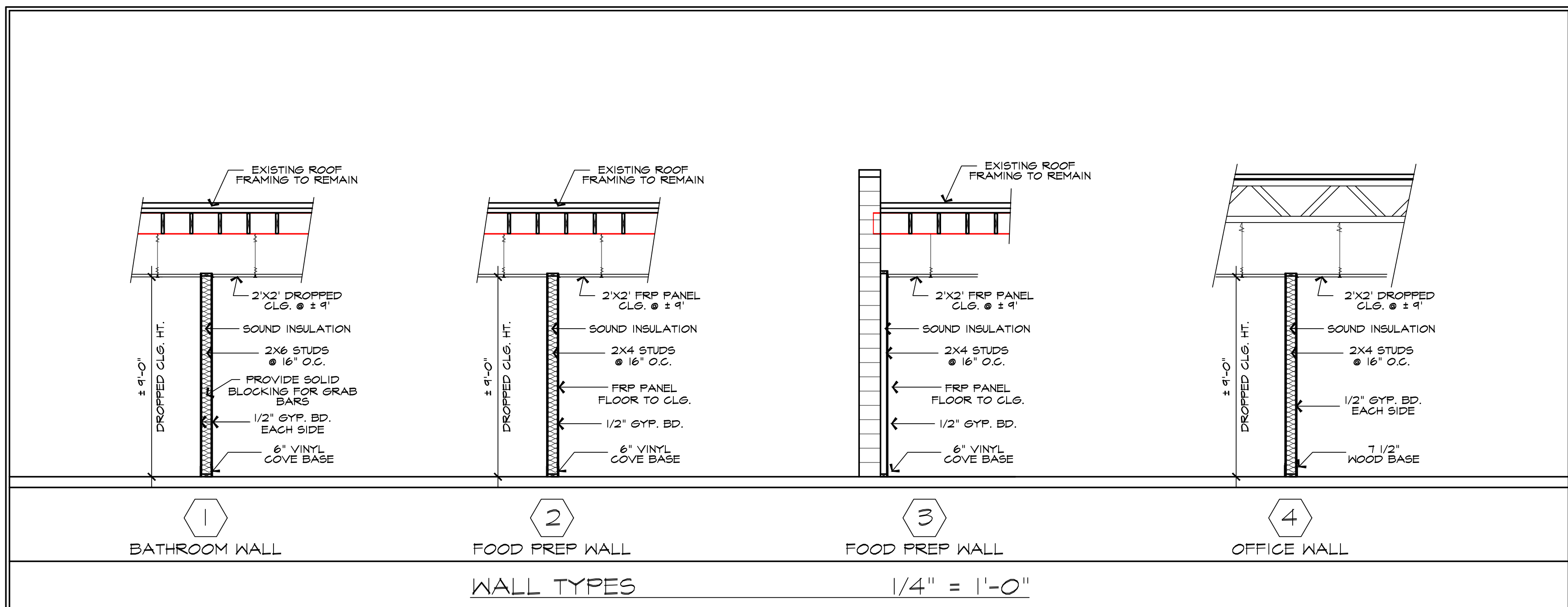
DOOR #	SIZE	MAT'L.	DOOR TYPE	FRAME MAT'L.	RATED	HW'LR SET #	REMARKS
01	3'-0" X 7'-0"	GLASS	A	ALUM.		1	NEW SERVICE DOOR FOR ALCOHOL DELIVERY
02	3'-0" X 7'-0"	SW.	B	PRE-HUNG		4	WOMEN'S BATHROOM DOOR W/ SIGNAGE AND CLOSER
03	3'-0" X 7'-0"	SW.	B	PRE-HUNG		4	MEN'S BATHROOM DOOR W/ SIGNAGE AND CLOSER
04	3'-0" X 7'-0"	H.M.	C	ALUM.		2	FOOD PROCESSING ACCESS DOOR
05	10'-0" X 10'-0"	ALUM.	D	M.O.		6	ROLL UP DOOR IN EXISTING OPENING
06	3'-0" X 7'-0"	H.M.	C	ALUM.		2	FOOD PROCESSING ACCESS DOOR
07	10'-0" X 10'-0"	ALUM.	D	M.O.		6	ROLL UP DOOR IN EXISTING OPENING
08	3'-0" X 7'-0"	H.M.	C	ALUM.		1	NEW DELIVERY / SHIPPING ENTRY DOOR
09	(2) 3'-0" X 8'-0"	H.M.	F	ALUM.		4	PAIR OF DELIVERY ACCESS DOORS
10	3'-0" X 7'-0"	GLASS	A	ALUM.		1	RESTAURANT REAR ENTRY DOOR
11	3'-0" X 7'-0"	H.M.	C	ALUM.		2	BREAK ROOM DOOR
12	3'-0" X 7'-0"	H.M.	C	ALUM.		2	MECHANICAL ROOM DOOR
13	(2) 3'-0" X 8'-0"	H.M.	F	ALUM.		4	PAIR OF DELIVERY ACCESS DOORS
14	3'-0" X 7'-0"	SW.	B	PRE-HUNG		3	UNISEX DOOR W/ SIGNAGE AND CLOSER
15	3'-0" X 7'-0"	SW.	B	PRE-HUNG		2	BREAK ROOM DOOR
16	3'-0" X 7'-0"	GLASS	A	ALUM.		1	EMPLOYEE REAR ENTRY DOOR
17	3'-0" X 7'-0"	SW.	B	PRE-HUNG		2	UNISEX DOOR W/ SIGNAGE AND CLOSER
18	3'-0" X 7'-0"	GLASS	A	ALUM.		1	DRIVER PICK UP ENTRY DOOR
20	(2) 3'-0" X 7'-0"	GLASS	H	ALUM.		1	RESTAURANT / PIZZA ENTRY DOORS
21	(2) 3'-0" X 7'-0"	GLASS	I	ALUM.		1	RESTAURANT / PIZZA ENTRY DOORS
22	(2) 3'-0" X 7'-0"	GLASS	J	ALUM.		2	PIZZA BY THE SLICE ENTRY DOOR
23	3'-0" X 7'-0"	SW.	B	PRE-HUNG		3	FAMILY / SINGLE USE DOOR W/ SIGNAGE AND CLOSER
24	3'-0" X 7'-0"	HM	K	PRE-HUNG		7	PUSH / PULL SWINGING SERVICE DOORS
25	3'-0" X 7'-10"	GLASS	L	ALUM.		1	COVERED PATIO EXIT DOOR
26	3'-0" X 7'-10"	GLASS	L	ALUM.		1	COVERED PATIO EXIT DOOR
E							

SET #
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EDESCRIPTION
ENTRY SET WITH EGRESS HARDWARE BAR
GLASS ROOM TYPE KEYED ENTRY
PRIVACY SET W/ CLOSER
PASSAGE SET HARDWARE
BARN STYLE SLIDING TOP & BOTTOM RAIL
ROLL UP DOOR W/ ELECTRIC & MANUAL OPENER
PUSH PULL SWINGING HINGE HARDWARE
EXISTING HARDWARE TO REMAIN

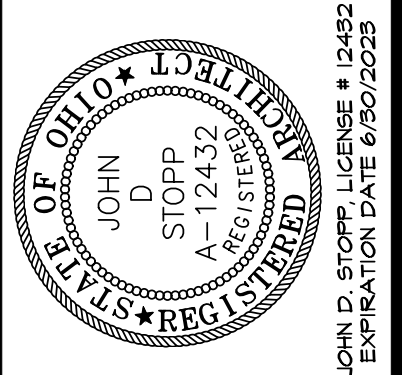
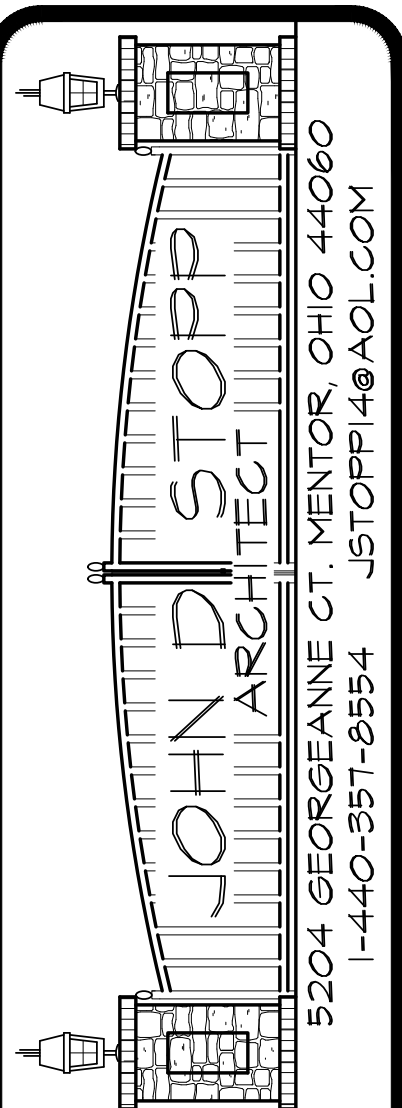
NOTES:

-- ALL DOORS TO HAVE HARDWARE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, FINCHING OR TWISTING OF THE WRIST. (LEVER TYPE)

-- ALL MEANS OF EGRESS DOORS SHALL BE READILY OPERABLE FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.



REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 24, 2022	

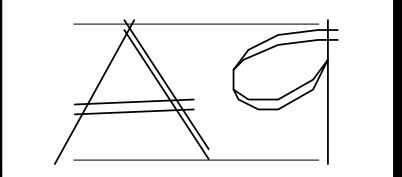


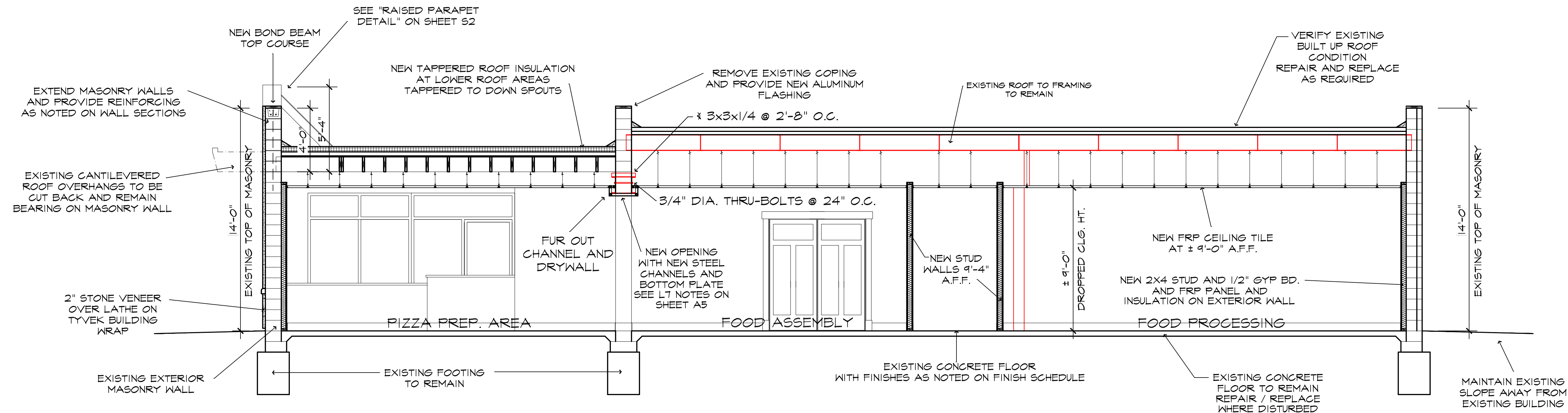
CLEVELAND PIZZA CO. REMODELING

3122 VINE STREET
WILLOWICK, OHIO

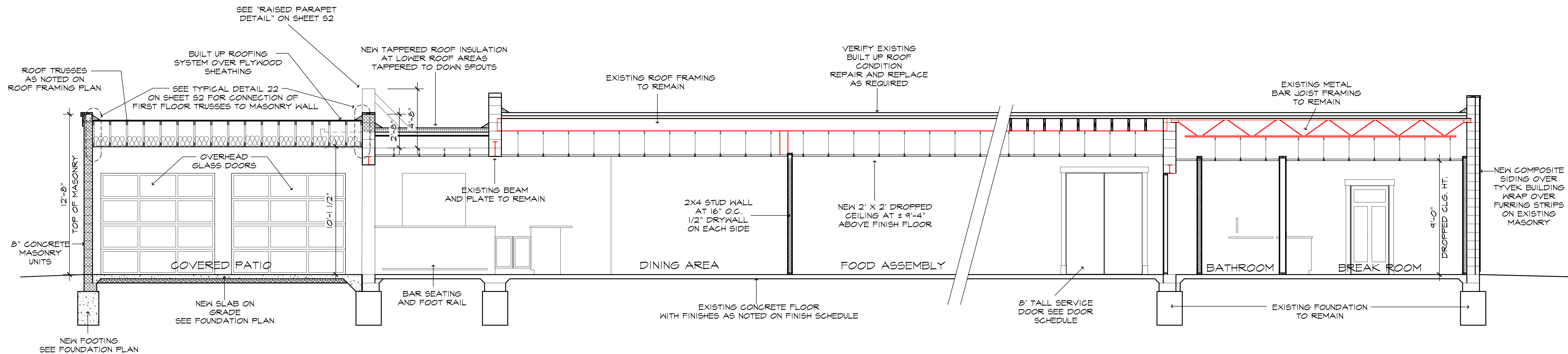
SCHEDULES / FINISHES

DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 1/4" = 1'-0"
JOB NO. 202044
SHEET





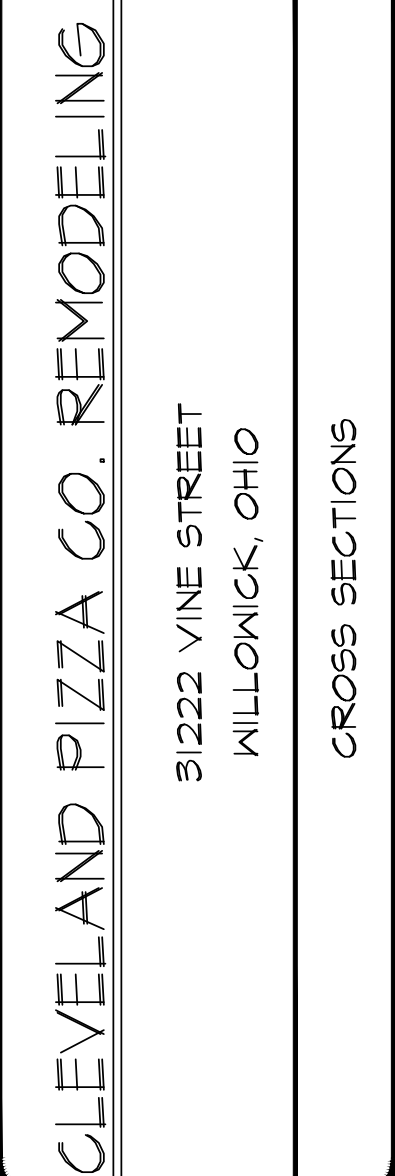
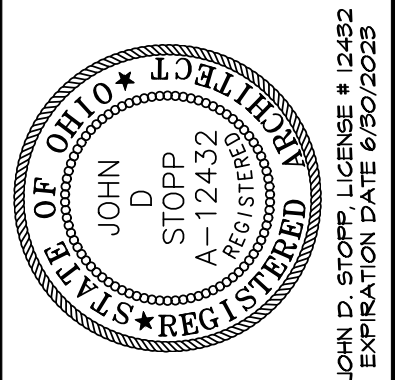
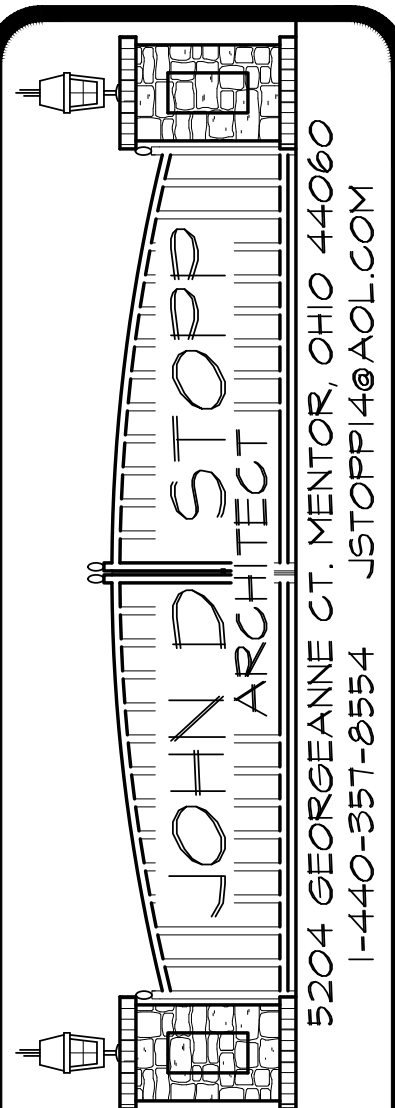
CROSS SECTION "A-A" (SEE SHEET A4) 1/4"



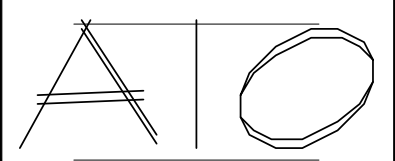
NOTE: DROPPED CEILING VARIES BETWEEN 9' AND 9'-4" DEPENDING ON MECHANICAL AND EXISTING HEADERS.

CROSS SECTION "B-B" (SEE SHEET A4) 1/4"

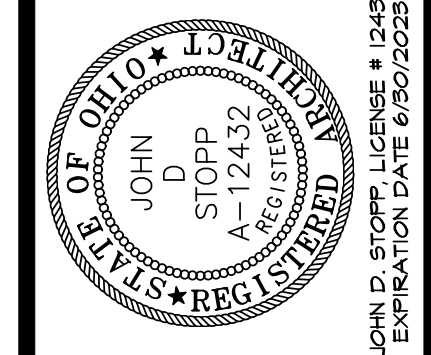
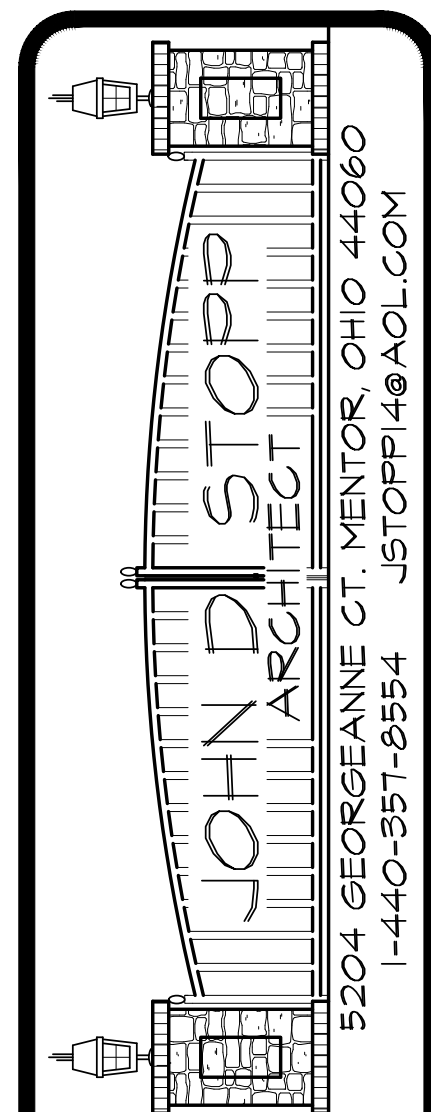
REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 24, 2022	



DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 1/4" = 1'-0"
JOB NO. 202044
SHEET

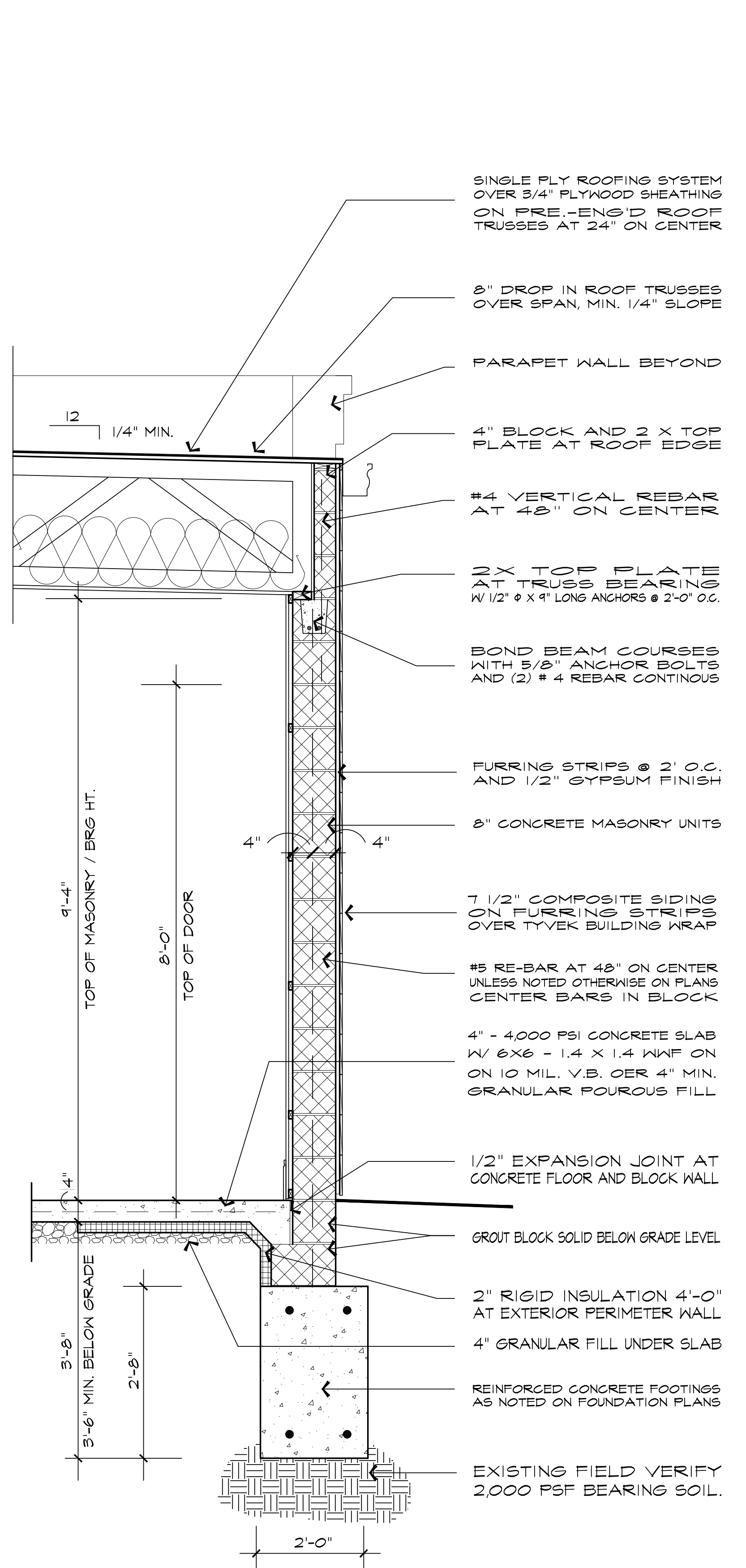


REVISIONS	BY
FOR CONSTRUCTION JULY 19, 2022	
REVISED NO DOCK AUGUST 29, 2022	

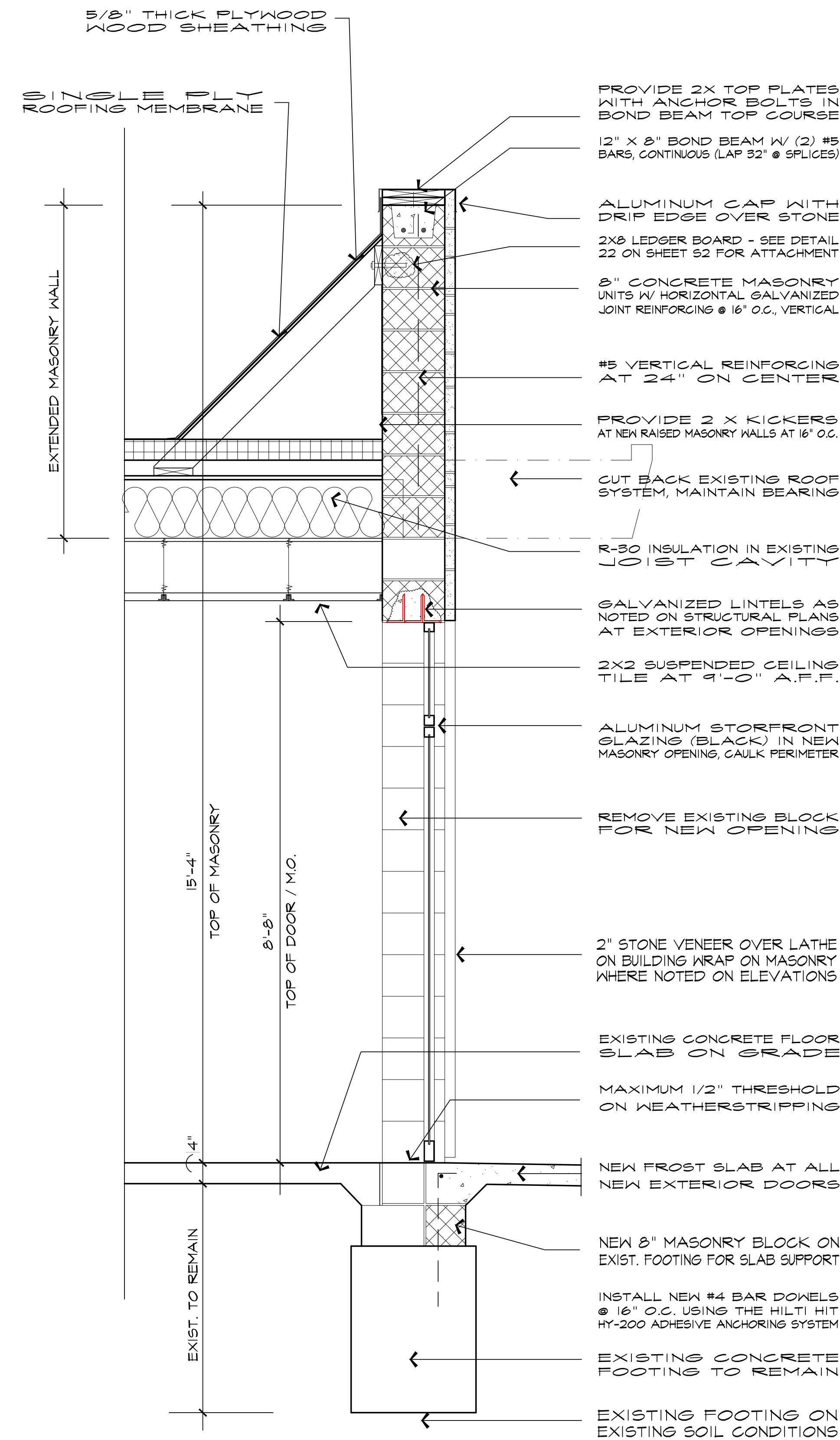


CLEVELAND PIZZA CO. REMODELING
3122 VINE STREET
WILLOWICK, OHIO
WALL SECTIONS

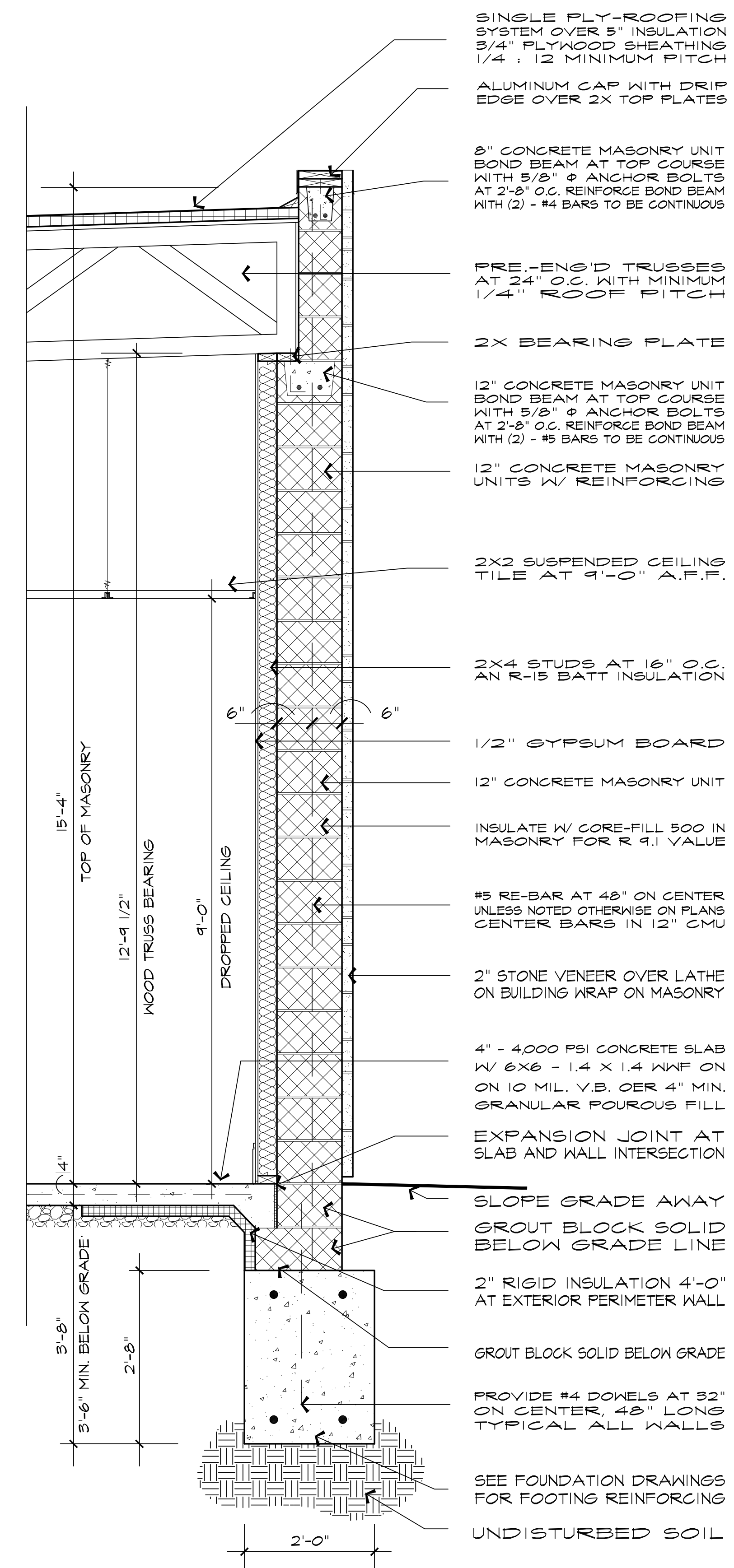
DRAWN JOHN D. STOPP
CHECKED
DATE JULY 19, 2022
SCALE 3/4" = 1'-0"
JOB NO. 202044
SHEET A11



SECTION "C" 3/4"

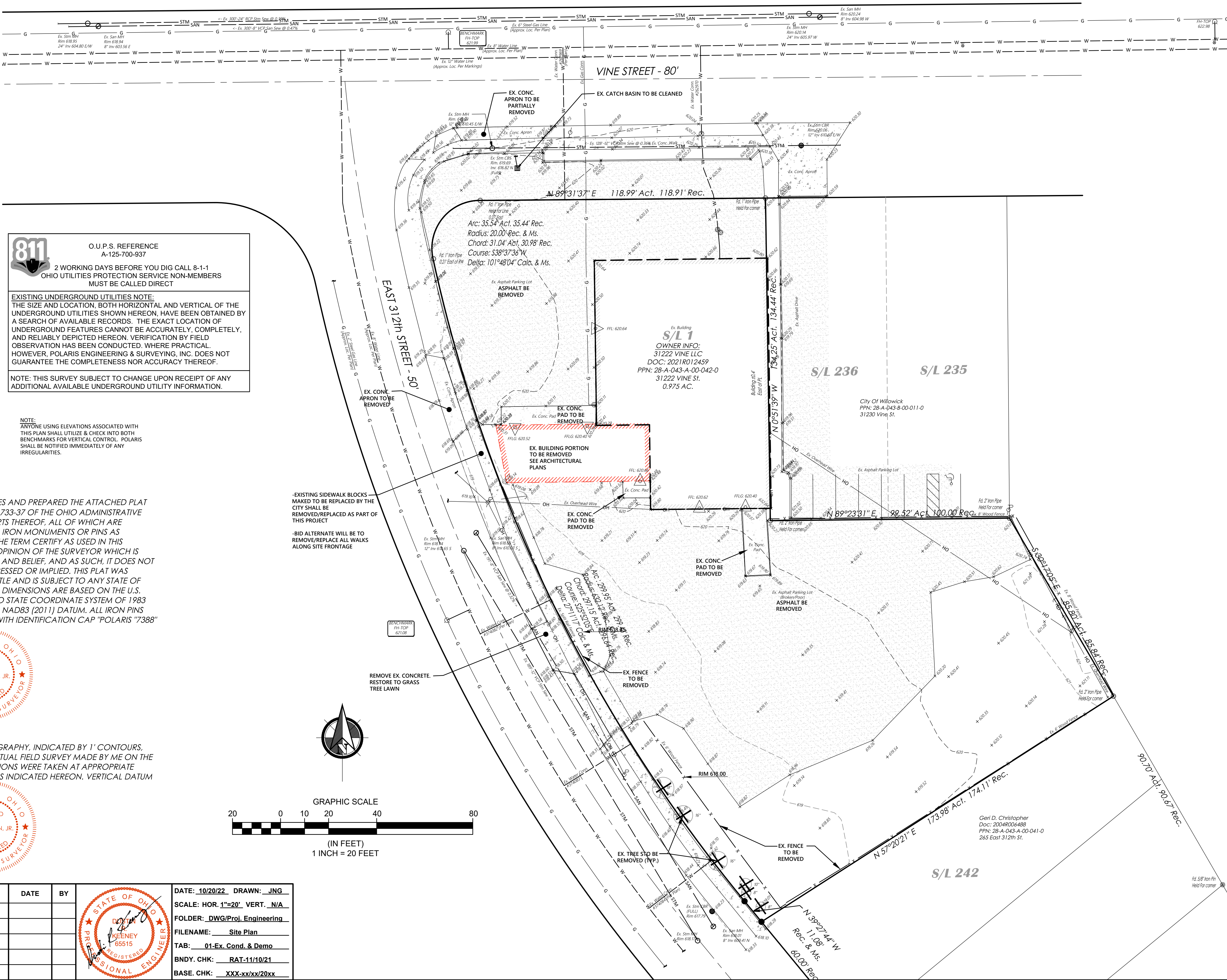


SECTION "D" 3/4"



SECTION "E" 3/4"

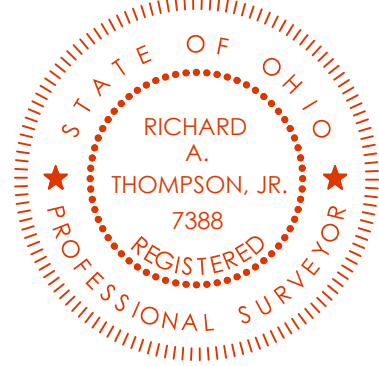
SYMBOL LEGEND	
	Guy Wire
	Power Pole
	Light Power Pole
	Light Pole
	Traffic Signal Pole
	Traffic Signal Box
	Cable TV Box
	Electrical Box
	Telephone (SAC) Box
	Tree
	Pine Tree
	Bush
	Yard Light
	Gasline Marker
	Power Transformer
	SCB Sprinkler Control Box
	SH Sprinkler Head
	Sign
	Test Bore
	Guard Post



Boundary Certification:

I HEREBY CERTIFY THAT I HAVE SURVEYED THE PREMISES AND PREPARED THE ATTACHED PLAT IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 4733-37 OF THE OHIO ADMINISTRATIVE CODE. THE DIMENSIONS ARE IN FEET AND DECIMAL PARTS THEREOF. ALL OF WHICH ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. IRON MONUMENTS OR PINS AS INDICATED WERE FOUND OR SET AS SHOWN HEREON. THE TERM CERTIFY AS USED IN THIS STATEMENT IS UNDERSTOOD TO BE THE PROFESSIONAL OPINION OF THE SURVEYOR WHICH IS FORMULATED ON HIS BEST KNOWLEDGE, INFORMATION AND BELIEF, AND AS SUCH, IT DOES NOT CONSTITUTE A GUARANTEE OR WARRANTY, EITHER EXPRESSED OR IMPLIED. THIS PLAT WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE AND IS SUBJECT TO ANY STATE OF FACTS REVEALED BY A EXAMINATION OF THE SAME. ALL DIMENSIONS ARE BASED ON THE U.S. SURVEY FOOT DEFINITION. BEARINGS REFER TO THE OHIO STATE COORDINATE SYSTEM OF 1983 (NORTH ZONE) BASED ON THE ODOT CORS/VRS SYSTEM NAD83 (2011) DATUM. ALL IRON PINS SET ARE 5/8 INCH DIAMETER BY 30-INCH-LONG REBAR WITH IDENTIFICATION CAP "POLARIS "7388" AS SHOWN HEREON (●).

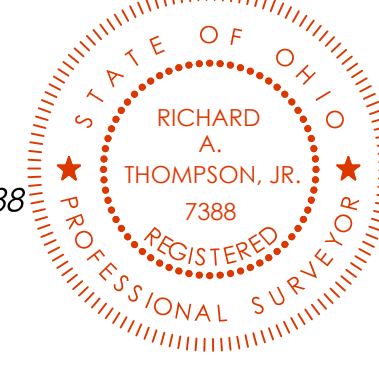
Richard A. Thompson Jr.
RICHARD A. THOMPSON, JR.
OHIO PROFESSIONAL SURVEYOR #7388
DATE: 11/10/21



TOPOGRAPHIC CERTIFICATION:

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS TOPOGRAPHY, INDICATED BY 1' CONTOURS, AND ELEVATIONS SHOWN HEREON, REPRESENT AN ACTUAL FIELD SURVEY MADE BY ME ON THE 20TH DAY OF OCTOBER, 2021, AND THAT THE ELEVATIONS WERE TAKEN AT APPROPRIATE INTERVALS AND THAT AS OF THAT DATE THEY EXISTED AS INDICATED HEREON. VERTICAL DATUM IS BASED ON NAVD88.

Richard A. Thompson Jr.
RICHARD A. THOMPSON, JR., P.S. #7388

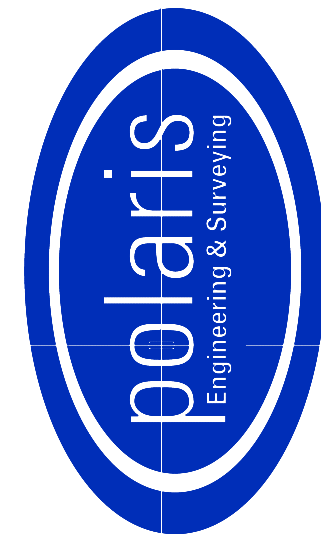


REV. No.	DATE	BY	

	DATE: 10/20/22, DRAWN: JNG SCALE: HOR. 1"=20' VERT. N/A FOLDER: DWG/Proj. Engineering FILENAME: Site Plan TAB: 01-Ex. Cond. & Demo BNDY. CHK: RAT-11/10/21 BASE. CHK: XXX-xx/xx/20xx
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CLEVELAND PIZZA CO.
31222 VINE STREET
CITY OF WILLOWICK - LAKE COUNTY - OHIO

POLARIS ENGINEERING & SURVEYING, INC.
34600 GHARDON ROAD - SUITE D
WILLOUGHBY HILLS, OHIO 44094
(440) 944-4433 (440) 944-3722 (Fax)
www.polaris-es.com

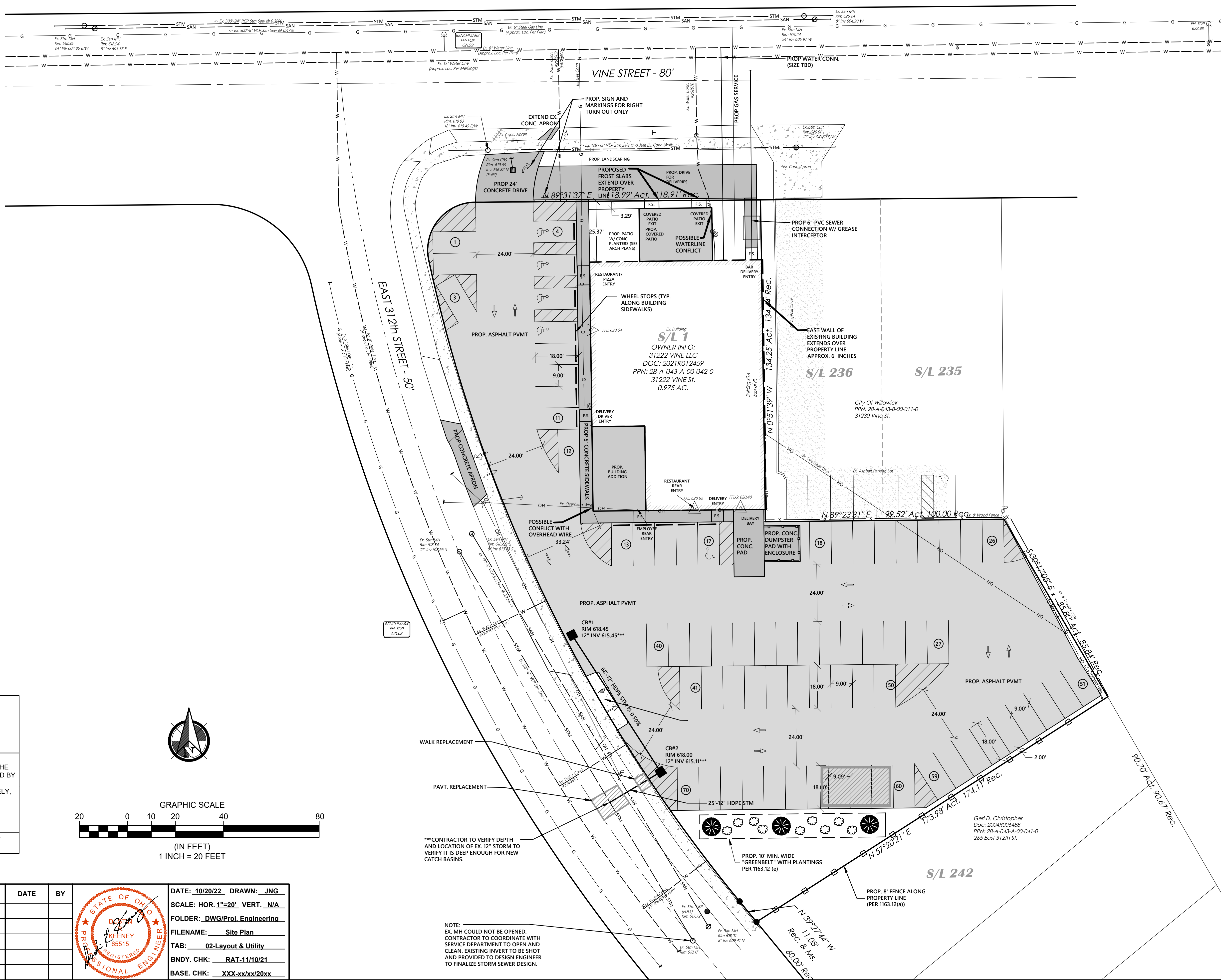


EXISTING CONDITIONS &
DEMOLITION PLAN

CONTRACT No.

21183

SHEET	OF
01	08



CITY OF WILLOWICK - LAKE COUNTY - OHIO



polaris
Engineering & Surveying

SHEET

02

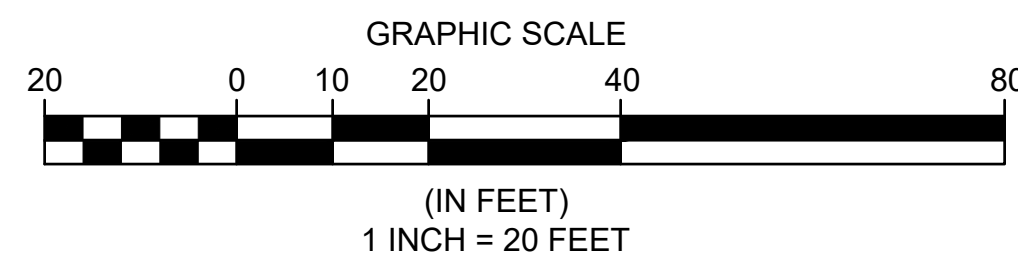
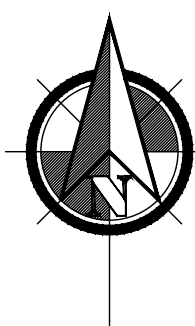
SYMBOL LEGEND	
⊙ Ex. Clean Out	— Guy Wire
▢ Ex. Catch Basin	— Power Pole
■ Prop. Catch Basin	— Light Power Pole
▤ Ex. Curb Inlet	— Light Pole
▥ Prop. Curb Inlet	— Traffic Signal Pole
○ Ex. Yard Drain	— Traffic Signal Box
○ Ex. Manhole	— Cable TV Box
○ Ex. Sanitary Manhole	— Electrical Box
● Prop. Sanitary Manhole	— Telephone (SAC) Box
○ Ex. Storm Manhole	— Tree
● Prop. Storm Manhole	— Pine Tree
⊙ Storm Inlet MH	— Bush
⊙ Ex. Water Valve	— Yard Light
⊙ Prop. WL Valve	— Gasline Marker
⊙ Water Meter	— Power Transformer
⊙ Ex. Fire Hydrant	— SCB Sprinkler Control Box
⊙ Prop. Hydrant	— SH Sprinkler Head
⊙ Well	— Sign
⊙ Gas Valve	— Test Bore
⊙ Gas Meter	— Guard Post
⊙ Mailbox	

NOTE:
ANYONE USING ELEVATIONS ASSOCIATED WITH THIS PLAN SHALL UTILIZE & CHECK INTO BOTH BENCHMARKS FOR VERTICAL CONTROL. POLARIS SHALL BE NOTIFIED IMMEDIATELY OF ANY IRREGULARITIES.

811
O.U.P.S. REFERENCE
A-125-700-937
2 WORKING DAYS BEFORE YOU DIG CALL 8-1-1
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS
MUST BE CALLED DIRECT

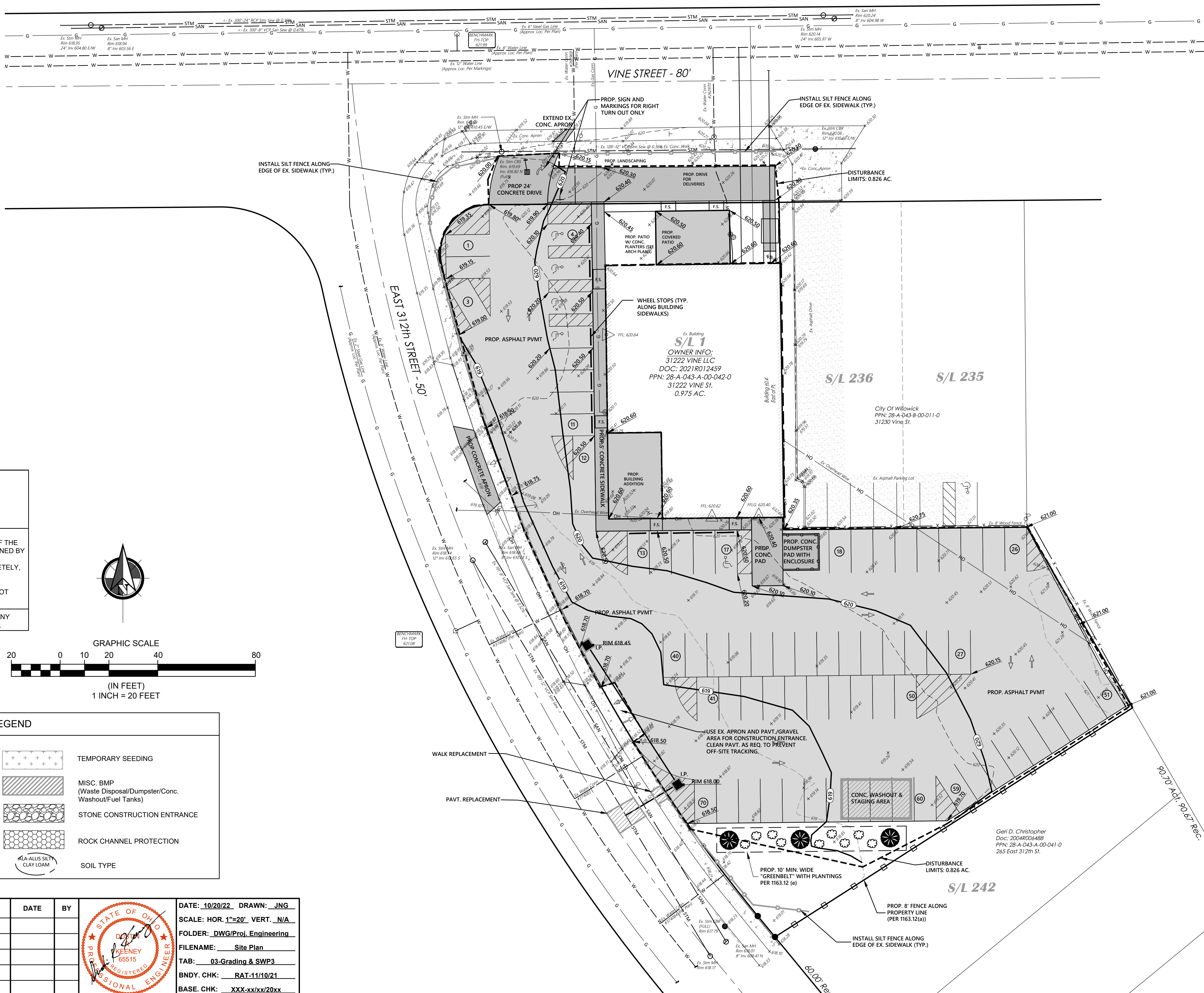
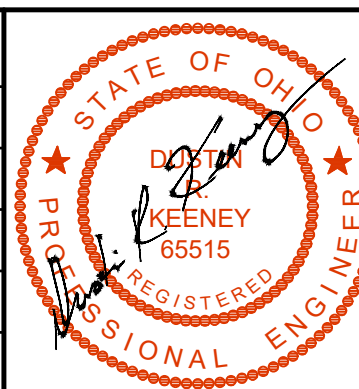
EXISTING UNDERGROUND UTILITIES NOTE:
THE SIZE AND LOCATION, BOTH HORIZONTAL AND VERTICAL OF THE UNDERGROUND UTILITIES SHOWN HEREON, HAVE BEEN OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED HEREON. VERIFICATION BY FIELD OBSERVATION HAS BEEN CONDUCTED, WHERE PRACTICAL. HOWEVER, POLARIS ENGINEERING & SURVEYING, INC. DOES NOT GUARANTEE THE COMPLETENESS NOR ACCURACY THEREOF.

NOTE: THIS SURVEY SUBJECT TO CHANGE UPON RECEIPT OF ANY ADDITIONAL AVAILABLE UNDERGROUND UTILITY INFORMATION.



SWP3 LEGEND			
□ I.P.	INLET PROTECTION	+++	TEMPORARY SEEDING
— 987 —	PROPOSED CONTOUR	▨	MISC. BMP (Waste Disposal/Dumpster/Conc. Washout/Fuel Tanks)
— 987 —	EXISTING CONTOUR	▨	STONE CONSTRUCTION ENTRANCE
— — —	DISTURBANCE LIMITS	▨	ROCK CHANNEL PROTECTION
— — —	SILT FENCE/SILT SOCK	▨	SOIL TYPE
— — —	SOIL DELINEATION LINE	▨	

REV. No.	DATE	BY	DATE: 10/20/22, DRAWN: JNG
			SCALE: HOR. 1"=20' VERT. N/A
			FOLDER: DWG/Proj. Engineering
			FILENAME: Site Plan
			TAB: 03-Grading & SWP3
			BN DY. CHK: RAT-11/10/21
			BASE. CHK: XXX-xx/xx/20xx



CLEVELAND PIZZA CO.
31222 VINE STREET

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WILLOUGHBY HILLS, OHIO 44094
(440) 944-4433 (440) 944-3722 (Fax)
www.polaris-es.com



GRADING & SWP3 PLAN

CONTRACT No.

21183

SHEET	OF
03	08

GENERAL
A PRE-CONSTRUCTION CONFERENCE SCHEDULED BY THE ENGINEER SHALL BE HELD PRIOR TO ANY WORK STARTING. IN ADDITION, THE CONTRACTOR SHALL PROVIDE 48 HOUR NOTICE TO CONCORD TOWNSHIP, THE LAKE COUNTY ENGINEER AND STORMWATER MANAGEMENT DEPARTMENT, PAINESVILLE WATER, LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE LAKE COUNTY DEPARTMENT OF UTILITIES PRIOR TO BEGINNING WORK TO ARRANGE FOR INSPECTION.

THE STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION, LATEST EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS, SHALL GOVERN THIS PROJECT.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF CONCORD TOWNSHIP. THE LAKE COUNTY ENGINEER AND STORMWATER MANAGEMENT DEPARTMENT, PAINESVILLE WATER, LAKE COUNTY SOIL AND WATER CONSERVATION DISTRICT AND THE LAKE COUNTY DEPARTMENT OF UTILITIES AND AT ALL TIMES BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY WITH THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ACT.

EARTHWORK OPERATIONS

THE DESIGNATED AREAS OF EXCAVATION AND FILL SHALL BE CLEARED AND STRIPPED BY THE CONTRACTOR PRIOR TO THE START OF ANY EARTHWORK OPERATIONS.

CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE ENTIRE SITE AND EASEMENT AREAS. CLEARING AND GRUBBING SHALL ALSO INCLUDE STUMP REMOVAL.

ALL STUMPS, TREES AND OTHER CONSTRUCTION DEBRIS SHALL BE DISPOSED OF BY THE CONTRACTOR AND THE COST THEREOF INCLUDED IN ITEMS CONTAINED IN THE BID.

THE CONTRACTOR SHALL STRIP ALL TOPSOIL AS DIRECTED BY THE OWNER AND STOCKPILE THE TOPSOIL IN THE AREAS DESIGNATED BY THE OWNER FOR RESPREADING.

THE CONTRACTOR SHALL PLACE AND COMPACT ALL SUITABLE FILL MATERIAL EXCAVATED DURING HIS CONSTRUCTION OPERATIONS WITHIN THE FILL AREAS DESIGNATED ON THE IMPROVEMENT PLANS. THE FINAL GRADE OF THE EXCAVATED AND FILLED AREAS SHALL CORRESPOND TO THE PROPOSED GRADES SHOWN ON THE IMPROVEMENT PLANS.

ALL EMBANKMENT CONSTRUCTION SHALL CONFORM TO O.D.O.T. ITEM 203 SPECIFICATIONS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A SOILS ENGINEER FOR ALL SOILS ANALYSIS AND TESTING REQUIRED. SANITARY SEWER

DUCTILE IRON PIPE SHALL CONFORM TO AWWA C150 AND C151. THICKNESS CL 52 MINIMUM (ASTM A746); FITTINGS SHALL CONFORM TO AWWA C153; JOINTS SHALL CONFORM TO AWWA C111 WITH RUBBER GASKETS.

VITRIFIED CLAY PIPE AND FITTINGS SHALL CONFORM TO ASTM C700 EXTRA STRENGTH WITH PREMIUM JOINTS MEETING THE REQUIREMENTS OF ASTM C425.

MATERIAL SPECIFICATIONS

MATERIAL SPECIFICATIONS CALLED FOR ON THE PLANS REPRESENT THE MINIMUM REQUIRED FOR EACH APPLICATION. THE OWNER MAY REQUEST OR THE CONTRACTOR MAY DESIRE TO SUBSTITUTE ALTERNATE MATERIALS. ANY SUCH SUBSTITUTIONS MUST BE EQUIVALENT IN QUALITY TO THE MATERIAL CALLED FOR AND MUST BE APPROVED IN WRITING BY THE APPROVING AGENCIES AND THE CONSULTING ENGINEER.

ALL SANITARY AND LATERALS RUNNING UNDERNEATH PAVEMENT SHALL BE BACK FILLED WITH GRANULAR MATERIAL AS PER TRENCH AND BEDDING DETAIL.

SLAG SHALL NOT BE USED FOR BEDDING, BACK FILL OR ANY OTHER PROPOSED WORK ON THIS PROJECT.

THE CONTRACTOR SHALL INCLUDE COST OF GRANULAR BACK FILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN PRICE BID PER LINEAR FOOT OF PIPE INCLUDING COMPACTION TESTS UNDER ALL EXISTING AND PROPOSED PAVEMENTS.

ALL SEWERS, SERVICE LATERALS, UTILITY CONDUITS AND DUCTS INSTALLED UNDERNEATH EXISTING OR FUTURE PAVEMENT SHALL BE BACK FILLED WITH NO. 10 LIMESTONE AND COMPACTED WITH A VIBRATORY PLATE COMPACTOR IN 6" LIFTS. THE MINIMUM COMPACTION REQUIREMENT SHALL CONFORM TO ODOT ITEM 203. COMPACTION TESTS MAY BE REQUIRED BY THE LAKE COUNTY ENGINEER. COMPACTION TESTS SHALL BE PERFORMED BY A CONSULTANT APPROVED BY TH LAKE COUNTY ENGINEER AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING AND ALL PERMITS REQUIRED FOR THIS PROJECT.

WATERLINE - ALL WATERLINE MATERIAL AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH PAINESVILLE WATER SPECIFICATIONS. (SEE WATERLINE NOTES & DETAILS PLAN SHEET)

STORM SEWER
10" AND UNDER SHALL BE PVC SDR 35, ADS N-12 OR APPROVED EQUAL.
12" TO 15" TO BE RCP C-76 CL IV OR HDPE (ALTERNATE)
18" AND OVER TO BE RCP C-76 CL III OR HDPE (ALTERNATE)
*ALTERNATE HDPE PIPE SPECIFICATIONS: HANCOR HI-Q POLYETHYLENE PIPE OR ADS N-12 POLYETHYLENE PIPE, OR EQUAL PER ASTM D3350.

THE CONTRACTOR SHALL TEST ALL STORM SEWER PIPE PER ODOT SUPPLEMENTAL SPECIFICATIONS #42 AND #44 FOR DEFLECTION WITH A NINE (9) ARM MANDEREL. MAXIMUM ALLOWABLE DEFLECTION SHALL BE 7.5% OF ITS BASE INSIDE DIAMETER WHEN MEASURED NOT LESS THAN 30 DAYS AFTER COMPLETION OF INSTALLATION.

SANITARY SEE LAKE COUNTY UTILITY DEPARTMENT NOTES

FILTER FABRIC ALL FABRIC FOR EROSION CONTROL TO BE WOVEN MATERIAL.

THE CONTRACTOR SHALL INCLUDE THE COST OF GRANULAR BACKFILL MATERIAL UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAL FOOT OF PIPE.

SEE TRENCH AND BEDDING DETAILS FOR BEDDING AND BACKFILL SPECIFICATIONS FOR ALL STORM SEWER, SANITARY SEWER, WATER MAIN AND LATERAL CONSTRUCTION.

TRAFFIC CONTROL

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNING, TRAFFIC MAINTENANCE AND TRAFFIC CONTROL AS DIRECTED BY CONCORD TOWNSHIP. ALL WORK, SIGN LAYOUTS, AND MATERIALS USED SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

EROSION AND SEDIMENT CONTROL PROCEDURES

SEE EROSION CONTROL LOCATIONS ITEMS LOCATED ON THE GRADING AND SWPP PLANS, SWPP NOTES AND EROSION DETAILS PAGES OF THE PLANS.

ADDITIONAL UTILITY NOTES:

1. ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.
2. ALL SANITARY SEWER CONNECTIONS SHALL HAVE A MINIMUM GRADE OF 1%.

EPA UTILITY NOTES:

1. TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN WATER LINE AND SANITARY SEWER.
2. AN 18" MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND SANITARY SEWERS AT ALL CROSSINGS.
3. TEN FEET MINIMUM HORIZONTAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER.
4. A 18 INCH MINIMUM VERTICAL SEPARATION (OUT-TO-OUT, CLEAR) WILL BE MAINTAINED BETWEEN THE WATER LINE AND STORM SEWER AT ALL CROSSINGS.
5. THE PROPOSED WATERLINE IMPROVEMENTS WILL PROVIDE A MINIMUM 35 PSI PRESSURE AT THE CURB STOP DURING NORMAL OPERATING CONDITIONS.
6. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS.
7. THE SYSTEM SHALL BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI AT GROUND LEVEL AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW.

UTILITIES

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATIONS OF SURFACE AND SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL.

THE LOCATION OF ALL EXISTING UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE PLANS FROM DATA AVAILABLE AT THE TIME OF THE FIELD SURVEY IN COMPLIANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS AND UTILITY PROTECTION SERVICE LISTED BELOW IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND AS OUTLINED IN PROJECT SPECIFICATIONS.

THE UTILITY OWNERSHIP'S ARE AS FOLLOWS:

OHIO UTILITIES PROTECTION SERVICE
4740 BELMONT
YOUNGSTOWN, OHIO 44505
PH: (800) 362-2764

THE ILLUMINATING COMPANY
7757 AUBURN ROAD, BLDG. 4
CONCORD, OHIO 44077
PH: (440) 350-7741 (RALPH DELIGATTI)

SBC/AT&T
13630 LORAIN AVE.
CLEVELAND, OHIO 44111
PH: (216) 476-6181 (MAUREEN ROCHE)

ADE/PHA
7757 AUBURN ROAD, BLDG. 8
PAINESVILLE, OHIO 44077
PH: (440) 354-0030 (CHUCK SULLIVAN)

ORWELL NATURAL GAS COMPANY
8500 STATION ST. SUITE 100
MENTOR, OH 44060
PH: (440) 974-5120 (JERRY LIVENGOOD)

CITY OF PAINESVILLE WATER DEPARTMENT
459 STORMS STREET
PAINESVILLE, OHIO 44077
PHONE: (440) 392-2975

DOMINION EAST OHIO
1201 EAST 55TH STREET
CLEVELAND, OHIO 44103
PH: (216) 736-6788 (JOE HINTON)

LAKE COUNTY ENGINEER/STORMWATER
550 BLACKBROOK ROAD
PAINESVILLE, OHIO 44077
PH: (440) 350-2770 (GEORGE HADDEN)

LAKE COUNTY DEPT. OF UTILITIES
105 MAIN STREET
PAINESVILLE, OHIO 44077
PH: (440) 350-2652 (RANDY ROTHLSBERGER)

LAKE COUNTY SWCD
125 E. ERIE ST.
PAINESVILLE, OH 44077
PH: (440) 350-2730 (DAN DONALDSON)

LAKE COUNTY STORMWATER
ANAGEMENT DEPARTMENT (LCSWMD)
125 E. ERIE ST.
PAINESVILLE, OH 44077
PH: (440) 350-5900 (TIM MILLER)

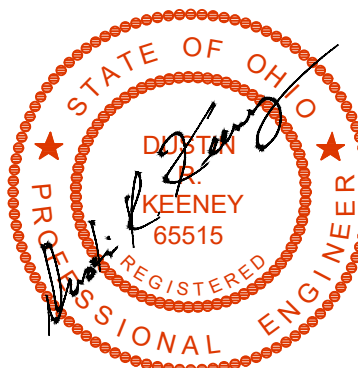
CONCORD TOWNSHIP SERVICE DEPARTMENT
7229 RAVENNA ROAD
CONCORD, OHIO 44077
PH: (440) 350-3226 (FRANK KRASKA)

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 12
5500 TRANSPORTATION BLVD.
GARFIELD HEIGHTS, OH 44125
PH: (216) 581-2100 (WILLIAM GERBER)
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LAKE COUNTY DEPARTMENT OF UTILITIES GENERAL SANITARY NOTES VR. 21

1. ALL SANITARY SEWER WORK COMPLETED MUST BE IN ACCORDANCE WITH THE CURRENT REGULATIONS AND RULES OF THE LAKE COUNTY DEPARTMENT OF UTILITIES (LCDU).
2. ONLY WATER/SEWER CONTRACTORS LICENSED BY THE LAKE COUNTY BOARD OF COMMISSIONERS MAY INSTALL SANITARY SEWERS.
3. CONSTRUCTION PLAN APPROVAL BY THE LCDU SHALL EXPIRE IF SANITARY SEWER CONSTRUCTION HAS NOT BEEN INITIATED BY A DEVELOPER WITHIN (12) MONTHS OF THE EFFECTIVE APPROVAL DATE AS SHOWN ON THE BLUEPRINT COPY ORIGINALLY SUBMITTED FOR APPROVAL (THIS IS NOT TO BE CONSTRUED AS THE DATE SHOWN ON THE ORIGINAL MYLAR TITLE SHEET).
4. ALL SANITARY SEWER CONNECTIONS SHALL BE A MINIMUM OF 6" DIAMETER AND SHALL HAVE PREMIUM JOINTS.
5. ALL SANITARY SEWER MUST HAVE PREMIUM JOINTS, AND THE ENTIRE SYSTEM MUST PASS AN INFILTRATION TEST AND EXFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION AND EXFILTRATION SHALL BE 100 GALLONS PER INCH DIAMETER OF THE SEWER PER MILE PER DAY.
6. THE CONTRACTOR SHALL SCHEDULE INSPECTION AT LEAST 48 HOURS IN ADVANCE WITH LCDU.
7. NO SANITARY SEWER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY THE LCDU WHICH SHALL INCLUDE APPROVED RECTIFICATION OF ALL PUNCH LIST ITEMS AND THE SUBMITTAL OF MYLAR AS-BUILT DRAWINGS.
8. ROOF DRAINS, FOUNDATIONS DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.
9. ALL SANITARY SEWER CONSTRUCTION AREAS MUST BE TO SUBGRADE PRIOR TO CONSTRUCTION AND CERTIFIED IN WRITING BY AN OHIO PROFESSIONAL SURVEYOR.
10. SHOP DRAWINGS ON ALL MATERIALS SHALL BE SUBMITTED TO THE LCDU FOR APPROVAL PRIOR TO INSTALLATION.
11. INSPECTION SERVICES SHALL BE PERFORMED BY THE LCDU. THE COST OF INSPECTION SHALL BE INCLUDED AS A PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS. (SEE SECTION 7 FEE SCHEDULE OF LCDU RULES AND REGULATIONS) COST FOR INSPECTION SHALL BE THE SOLE RESPONSIBILITY OF THE LAKE COUNTY LICENSED WATER/SEWER CONTRACTOR.
12. HYDROSTATIC TESTING SHALL BE PERFORMED FOR ALL MANHOLES UNDER THE SUPERVISION OF LCDU INSPECTION.
13. FINAL TELEVIEWING OF A SANITARY SEWER SHALL BE PERFORMED BY A PACP CERTIFIED CREW IN ASSOCIATION OF SEWER SERVICE COMPANIES AND AS APPROVED BY THE LCDU. THE TELEVISION INSPECTION SHALL BE RECORDED TO A DVD IN MPEG FORMAT AS DIRECTED BY LCDU. THE LCDU SHALL RECEIVE VIDEO RECORDING OF ALL TELEVISION INSPECTION.
14. ALL PROPOSED SANITARY SEWERS SHALL BE LAID OUT BY A REGISTERED SURVEYOR WITH GRADE STAKES AT A MINIMUM OF EVERY 50' AND AT ALL FITTINGS AND A CUTE SHEET PROVIDED PRIOR TO CONSTRUCTION.
15. THE CONTRACTOR/DEVELOPER SHALL SUBMIT A THREE YEAR MAINTENANCE BOND TO THE COMMISSIONERS BY THE DEVELOPER IN THE AMOUNT OF TEN PERCENT OF THE FINAL CONSTRUCTION COSTS AS VERIFIED BY THE DEVELOPERS ENGINEER, FOR PUBLIC EXTENSION PROJECTS.

REV. No.		DATE	BY		DATE: 10/20/22, DRAWN: JNG
					SCALE: HOR. 1"=20' VERT. N/A
					FOLDER: DWG/Proj. Engineering
					FILENAME: Site Plan
					TAB: 04-General Notes
					BNDY. CHK: RAT-11/10/21
					BASE. CHK: XXX-xx/xx/20xx



CLEVELAND PIZZA CO.
31222 VINE STREET
CITY OF WILLOWICK - LAKE COUNTY - OHIO

POLARIS ENGINEERING & SURVEYING, INC.
34600 CHARDON ROAD - SUITE D
WILLOUGHBY HILLS, OHIO 44094
(440) 944-4433 (440) 944-3722 (Fax)
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GENERAL NOTES	
CONTRACT No.	
21183	
SHEET	OF
04	08

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT INFORMATION

NPDES PERMIT (0HC000005) # _____

PERMITEE (DEVELOPER) _____

CO-PERMITEE (CONTRACTOR) _____ N/A _____

GENERAL EROSION AND SEDIMENT CONTROL NOTES

EROSION CONTROL SHALL CONSIST OF TEMPORARY CONTROL MEASURES AS DETAILED ON THE PLANS OR ORDERED BY THE GOVERNING AGENCY DURING THE LIFE OF THE CONTRACT TO CONTROL SOIL EROSION AND SEDIMENTATION THROUGH USE OF EROSION CONTROL PERMANENT BEST MANAGEMENT PRACTICES (BMP'S).

ADDITIONAL EROSION CONTROL BMP'S MAY BE MANDATED BY THE GOVERNING AGENCY AT ANY TIME DURING THIS PROJECT AS UNFORESEEN SITUATIONS MAY ARISE THAT WARRANT FURTHER EROSION AND SEDIMENT CONTROL PRACTICES.

TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS, THE LOCATION AND SIZE OF WHICH ARE DETAILED ON THE PLANS, SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF ANY CLEARING OR EARTHWORK OPERATIONS. CONDITIONS THAT REQUIRE ADDITIONAL OR MODIFIED TEMPORARY OR PERMANENT BMP'S SHALL BE APPROVED BY THE DESIGN ENGINEER AND REFLECTED ON THE REVISED STORM WATER POLLUTION PREVENTION PLAN (SWP3).

SEDIMENT BASINS, SEDIMENT TRAPS, AND PERIMETER SEDIMENT CONTROLS, SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE REESTABLISHED WITH TEMPORARY VEGETATION. NO SEDIMENT CONTROLS SHALL BE PLACED IN A STREAM.

TRENCH DEWATERING OR GROUND WATER, WHICH CONTAINS SEDIMENT, SHALL PASS THROUGH A SEDIMENT SETTLING POND AND BE DEWATERED AT THE POND SURFACE USING A SKIMMER OR BE DEWATERED BY AN EQUALLY EFFECTIVE ALTERNATIVE. ALTERNATIVES MAY INCLUDE DEWATERING INTO SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED TO STREAMS OR THE STORM SEWER SYSTEM. VOLUME OF THE DEWATERING ZONE CAN BE A MINIMUM OF 1800 FTY/ACRE OF DRAINAGE AND HAVE A MINIMUM DRAIN TIME OF 48 HOURS.

THE SWP3, NOTES, DETAILED DRAWINGS AND ANY ADDENDUMS ARE INTENDED TO SERVE AS BASIC GUIDELINES. ALL EROSION CONTROL PRACTICES SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR) RAINWATER AND LAND DEVELOPMENT MANUAL AND THE NPDES STORM WATER DISCHARGE PERMIT.

ALL CAST IRON CATCH BASINS, GRATES AND INLET COVERS SHALL HAVE THE MESSAGE "DUMP NO WASTE, DRAINS TO WATERWAYS".

FUEL/LIQUID TANK STORAGE
ALL FUEL/LIQUID TANKS AND DRUMS SHALL BE STORED IN A MARKED STORAGE AREA. A DIKE SHALL BE CONSTRUCTED AROUND THIS STORAGE AREA WITH A MINIMUM CAPACITY EQUAL TO 110% OF THE VOLUME OF ALL CONTAINERS IN THE STORAGE AREA.

CONSTRUCTION & DEMOLITION DEBRIS
ALL CONSTRUCTION & DEMOLITION DEBRIS (C&DD) WASTE SHALL BE DISPOSED OF IN AN OHIO EPA APPROVED C&DD LANDFILL AS REQUIRED BY CHAPTER 3714. RECYCLED CODED OR MARKED CONSTRUCTION DEBRIS MAY BE DISPOSED OF ON-SITE, BUT DEMOLITION DEBRIS MUST BE DISPOSED IN A OHIO EPA APPROVED LANDFILL. ALSO, MATERIALS WHICH CONTAIN ASBESTOS MUST COMPLY WITH AIR POLLUTION REGULATIONS (SEE OHIO ADMINISTRATIVE CODE (OAC) 3745-20).

CONSTRUCTION CHEMICAL COMPOUNDS
AREA SHALL BE DESIGNATED FOR MIXING OR STORAGE OF COMPOUNDS SUCH AS FERTILIZERS, LIME, ASPHALT, OR CONCRETE. THESE DESIGNATED AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREA.

EQUIPMENT FUELING & MAINTENANCE
EQUIPMENT FUELING & MAINTENANCE SHALL BE IN DESIGNATED AREAS ONLY. THESE AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR ANOTHER STORM WATER DRAINAGE AREAS.

CONCRETE WASH WATER
ALL DESIGNATED CONCRETE WASHOUT AREAS SHALL BE LOCATED AWAY FROM WATERCOURSES, DRAINAGE DITCHES, FIELD DRAINS, OR OTHER STORMWATER DRAINAGE AREAS.

CONTAMINATED SOILS
ALL CONTAMINATED SOIL MUST BE TREATED AND/OR DISPOSED IN OHIO EPA APPROVED SOLID WASTE MANAGEMENT FACILITIES OR HAZARDOUS WASTE TREATMENT, STORAGE OR DISPOSAL FACILITIES (TSDF'S).

SPILL PREVENTION CONTROL & COUNTERMEASURES
A SPILL PREVENTION CONTROL AND COUNTERMEASURES (SPCC) PLAN MUST BE DEVELOPED FOR SITES WITH ONE ABOVE-GROUND STORAGE TANK OF 660 GALLONS OR MORE, TOTAL ABOVE-GROUND STORAGE OF 1,330 GALLONS, OR BELOW-GROUND STORAGE OF 42,000 GALLONS OF FUEL. NOTE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DEVELOP THE SPCC PLAN IF HIS ON-SITE STORAGE TANKS WILL BE ABOVE THESE LIMITS.

SPILL REPORTING REQUIREMENTS
THE CONTRACTOR SHALL CONTACT THE OHIO EPA AT 800-282-9378, THE LOCAL FIRE DEPARTMENT, AND THE LOCAL EMERGENCY PLANNING COMMITTEE IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF SHEEN. ON PROJECTS NORTH OF ROUTE 2 THE COAST GUARD MUST BE NOTIFIED AT (216) 937-0111.

TRENCH AND GROUND WATER CONTROL
THERE SHALL BE NO SEDIMENT-LADEN OR TURBID DISCHARGES TO WATER RESOURCES OR WETLANDS RESULTING FROM DEWATERING ACTIVITIES. IF TRENCH OR GROUND WATER CONTAINS SEDIMENT, IT MUST PASS THROUGH A SEDIMENT-SETTLING POND OR OTHER EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE, PRIOR TO BEING DISCHARGED FROM THE CONSTRUCTION SITE. ALTERNATIVELY, SEDIMENT MAY BE REMOVED BY SETTLING IN PLACE OR BY DEWATERING INTO A SUMP PIT, FILTER BAG OR COMPARABLE PRACTICE. GROUND WATER DEWATERING WHICH DOES NOT CONTAIN SEDIMENT OR OTHER POLLUTANTS IS NOT REQUIRED TO BE TREATED PRIOR TO DISCHARGE. HOWEVER, CARE MUST BE TAKEN WHEN DISCHARGING GROUND WATER TO ENSURE THAT IT DOES NOT BECOME POLLUTANT-LADEN BY TRAVERSING OVER DISTURBED SOILS OR OTHER POLLUTANT SOURCES.

OPEN BURNING
OPEN BURNING IS NOT PERMITTED.

DUST CONTROLS/SUPPRESSANTS
USED OIL MAY NOT BE USED AS A DUST SUPPRESSANT. NO DUST SUPPRESSANT SHALL BE APPLIED NEAR CATCH BASINS, STORM SEWERS OR OTHER DRAINAGE WAYS.

AIR PERMITTING REQUIREMENTS
CERTAIN ACTIVITIES ASSOCIATED WITH CONSTRUCTION WILL REQUIRE AIR PERMITS. ACTIVITIES INCLUDING BUT NOT LIMITED TO MOBILE CONCRETE BATCH PLANTS, MOBILE ASPHALT PLANTS, CONCRETE CRUSHERS, LARGE GENERATORS, ETC. WILL REQUIRE SPECIFIC OHIO EPA AIR PERMITS FOR INSTALLATION AND OPERATION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL REQUIRED AIR PERMITS.

PROCESS WASTE WATER/LEACHATE MANAGEMENT
DISCHARGES INCLUDING BUT NOT LIMITED TO VEHICLE/AND/OR EQUIPMENT WASHING, LEACHATE ASSOCIATED WITH ON-SITE WASTE DISPOSAL, CONCRETE WASHOUTS, ETC. ARE A PROCESS WASTEWATER AND ARE NOT AUTHORIZED FOR DISCHARGE UNDER 0HC000005. ALL PROCESS WASTE WATER MUST BE COLLECTED AND PROPERLY DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.

TEMPORARY RUN-OFF CONTROLS

DIVERSION SWALES
STORMWATER DIVERSION PRACTICES SHALL BE USED TO KEEP RUNOFF AWAY FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICAL. DIVERSIONS SHOULD BE USED IN LOCATIONS WHERE THE DRAINAGE AREA EXCEEDS THE CAPACITY OF THE SILT FENCE. IN SUCH CASES, THE RUNOFF SHOULD BE DIVERTED INTO A SEDIMENT BASIN OR SEDIMENT TRAP. DIVERSION SWALES, DIKES OR BERMS, MAY RECEIVE FROM AREAS UP TO 10 ACRES.

SOIL STABILIZATION CONTROLS

CLEARING & GRUBBING
LIMITS OF CLEARING AND GRADING SHALL BE CLEARLY MARKED ON THE SITE WITH SIGNAGE, FLAGGING AND/OR CONSTRUCTION FENCING.

THE CONTRACTOR SHALL LIMIT THE SURFACE AREA OF ERODABLE EARTH MATERIAL EXPOSED BY EXCAVATION, BORROW, AND FILL OPERATIONS AND PROVIDE IMMEDIATE PERMANENT OR TEMPORARY CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT STREAMS OR OTHER WATER COURSES, LAKES, PONDS, WETLANDS OR OTHER AREAS OF WATER IMPOUNDMENT.

CONSTRUCTION ENTRANCE
A STONED CONSTRUCTION ENTRANCE SHALL BE INSTALLED FOR ALL INGRESS & EGRESS TO THE SITE. THE MINIMUM DIMENSIONS OF THE DRIVE SHALL BE 20 FT. WIDE AND 50 FT. LONG. THE STONE SHALL BE 12 INCHES DEEP WITH AN UNDERLAIN GEOTEXTILE FABRIC. THE DRIVE SHALL BE INSTALLED PRIOR TO ANY CLEARING AND GRUBBING. SEDIMENTS SHALL BE REMOVED FROM ROADWAYS DAILY.

STABILIZATION
PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE OEPA AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM OHIO EPA PERMIT NO. 0HC000005 DISTURBED AREAS MUST BE STABILIZED AS SPECIFIED IN THE FOLLOWING TABLES BELOW.

TEMPORARY SEEDING
SEEDING AREAS SHALL BE INSPECTED AND WHERE THE SEED HAS NOT PRODUCED 70% COVER SHALL BE RESEED AS NECESSARY BY THE CONTRACTOR. AREAS SHALL BE STABILIZED WITH MULCH WHEN CONDITIONS PROHIBIT SEEDING.

STRAW MULCHING SHALL BE APPLIED AT A RATE 2-3 STANDARD 45 LB. BALES PER 1000 SQ.FT. OF DISTURBED AREA OR 2 TONS PER ACRE. ALL HYDROSEEDING MUST BE STRAW MULCHED ACCORDING TO THE ABOVE SPECIFICATIONS UNLESS IT IS WATERED WEEKLY.

ALL DETENTION PONDS, RETENTION PONDS, WATER QUALITY STRUCTURES, SEDIMENT PONDS, SEDIMENT TRAPS, EARTHEN DIVERSIONS OR EMBANKMENTS SHALL BE SEEDDED AND MULCHED WITHIN 7 DAYS OF COMPLETED CONSTRUCTION.

TEMPORARY STABILIZATION			
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL		
ANY DISTURBED AREAS WITHIN 50 FT. OF SURFACE WATERS OF THE STATE AND NOT AT FINAL GRADE	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS		
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FT. OF SURFACE WATERS OF THE STATE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S)		
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER	PRIOR TO ONSET OF WINTER WEATHER (NOV.1) STRAW MULCH 2 TO 3 BALES PER 1000 SQ.FT. AND OR 2 TONS PER ACRE.		

PERMANENT STABILIZATION			
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROL		
ANY AREA THAT WILL LIE DORMANT FOR ONE YEAR OR MORE	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE		
ANY AREA WITHIN 50 FT. OF SURFACE WATERS OF THE STATE AND AT FINAL GRADE	WITHIN TWO DAYS OF REACHING FINAL GRADE		
ANY OTHER AREAS AT FINAL GRADE	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA		

PERMANENT SEEDING SPECIFICATIONS			
Seed Mix	lb./ac.	lb. / 1000sqft	Notes:
General Use			
Creeping Red Fescue	20-40	1/2-1	For close mowing & for waterways with <2.0 ft/sec velocity
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	20-40	1/4-1/2	
Tall Fescue	40-50	1-1 1/4	
Dwarf Fescue	90	2 1/4	
Steep Banks or Cut Slopes			
Tall Fescue	40-50	1-1 1/4	Do not seed later than August.
Crown Vetch	10-20	1/4-1/2	
Tall Fescue	20-30	1/2-3/4	
Flat Pea	20-25	1/2-3/4	Do not seed later than August.
Tall Fescue	20-30	1/2-3/4	
Road Ditches and Swales			
Tall Fescue	40-50	1-1 1/4	
Dwarf Fescue	90	2 1/4	
Kentucky Bluegrass	5	0.1	
Lawns			
Kentucky Bluegrass	100-120	2	For Shaded areas.
Perennial Ryegrass		2	
Kentucky Bluegrass	100-120	2	
Creeping Red Fescue		1-1/2	
Note: other approved seed species may be substituted.			

PERMANENT STABILIZATION OF CONVEYANCE CHANNELS
OPERATORS SHALL UNDERTAKE SPECIAL STABILIZE CHANNELS AND OUTFALLS AND PREVENT EROSION FLOWS. MEASURES MAY INCLUDE SEEDING, DORMANT SEEDING (AS DEFINED IN THE LATEST EDITION OF ODNR RAINWATER AND LAND DEVELOPMENT MANUAL), MULCHING, EROSION CONTROL MATTING, SODDING, RIPRAP NATURAL CHANNEL DESIGN WITH BIO ENGINEERING TECHNIQUES OR ROCK CHECK DAMS.

TEMPORARY SEDIMENT CONTROLS

SILT FENCE
SHEET FLOW RUNOFF FROM DENUDEED AREAS SHALL BE INTERCEPTED BY SILT FENCE OR DIVERSIONS TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED VIA SHEET FLOW. WHERE INTENDED TO PROVIDE SEDIMENT CONTROL, SILT FENCES SHALL BE PLACED ON A LEVEL CONTOUR. THE EPA PERMIT NO. 0HC000005 DOES NOT PRECLUDE THE USE OF OTHER SEDIMENT BARRIERS DESIGNED TO CONTROL SHEET FLOW RUNOFF. SILT FENCE IS NOT PERMITTED TO BE USED FOR CONTROLLING CONCENTRATED SURFACEWATER FLOW (ONLY SHEET FLOW).

THE SIZE OF THE DRAINAGE AREA THAT CAN BE TREATED BY SILT FENCE VARIES WITH TOPOGRAPHY. THE FOLLOWING TABLE IS TO BE USED TO DETERMINE THE MAXIMUM UPSTREAM DISTANCE THAT IS ALLOWABLE TO BE TREATED BY THE SILT FENCE IN ORDER TO FUNCTION PROPERLY:

	SLOPE LENGTH (FT)
FLATTER THAN 50:1	250
50:1-10:1	125
10:1-5:1	100
5:1-3:1	75
3:1-2:1	50
>2:1	25

INLET PROTECTION
OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

GRADING NOTES

ALL EMBANKMENT AREAS UNDER FUTURE PAVEMENT, BUILDING PADS, ETC. SHALL BE COMPACTED PER ODOT ITEM 203.

EXCESS MATERIAL GENERATED FROM TRENCH EXCAVATION OPERATIONS SHALL BE INCORPORATED IN THE UNIT PRICE BID FOR EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION.

THE CONTRACTOR SHALL MAKE EVERY EFFORT TO AVOID ALL WETLANDS AND PROTECTED STREAMS ON THE SITE.

EROSION CONTROL ITEMS AS SPECIFIED IN THE EROSION CONTROL NOTES SHALL BE IMPLEMENTED PRIOR TO ANY EARTHWORK COMMENCING ON THIS PROJECT.

THE CONTRACTOR SHALL VERIFY AREAS OF TOPSOIL STRIPPING, STOCKPILING AND RE-SPREADING WITH THE OWNER PRIOR TO CONSTRUCTION.

CONFIRMATION WITH THE OWNER SHALL BE RECEIVED PRIOR TO ANY TOPSOIL, EXCESS EMBANKMENT MATERIALS AND/OR CONSTRUCTION DEBRIS BEING HAULED OFF OF THE SITE.

ANY EXCESS EMBANKMENT MATERIAL SHALL BE STOCKPILED OR HAULED OFF-SITE AS DIRECTED BY THE OWNER.

ALL ORGANIC AND UNSUITABLE MATERIAL SHALL BE REMOVED FROM ALL EXISTING CHANNELS AND THE EXISTING POND AREA PRIOR TO FILLING AND COMPACTING.

AFTER REMOVAL OF ORGANIC MATERIAL AND UNSUITABLE MATERIALS, EXISTING POND AREA SHOULD BE PROOF ROLLED TO ENSURE THAT SUBBASE IS STABLE PRIOR TO THE START OF EMBANKMENT OPERATIONS.

ENGINEERED FILL MATERIALS SHOULD CONSIST OF NON-EXPANSIVE MATERIALS. PYRITIC AND/OR POTENTIALLY EXPANSIVE MATERIALS, SUCH AS MINE TAILINGS AND SLAG SHOULD NOT BE USED AS ENGINEERED FILL MATERIAL. MATERIALS SELECTED FOR USE AS ENGINEERED FILL SHOULD CONTAIN LESS THAN 3 PERCENT BY WEIGHT OF ORGANIC MATTER, CONSTRUCTION DEBRIS, OR OTHER DELETERIOUS MATERIALS. FILL MATERIALS SHOULD GENERALLY HAVE A STANDARD PROCTOR MAXIMUM DRY DENSITY GREATER THAN 110 POUNDS PER CUBIC FOOT (PCF), AN ATTERBERG LIQUID LIMIT LESS THAN 40, A PLASTICITY INDEX OF LESS THAN 15, AND A MAXIMUM PARTICLE SIZE OF 2 INCHES OR LESS.

PLACE AND COMPACT ENGINEERED FILL IN SIX (6) INCH MAXIMUM LIFTS. EACH LIFT SHOULD BE COMPACTED TO AT LEAST NINETY-EIGHT (98%) PERCENT OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY WITH THE MOISTURE CONTENT OF THE ENGINEERED FILL BEING WITHIN TWO (2%)± PERCENT OF THE OPTIMUM MOISTURE CONTENT (ASTM D698).

POSITIVE DRAINAGE TO PROPOSED STORM SEWER INLETS AND/OR NATURAL DRAINAGEWAYS SHALL BE MAINTAINED AT ALL TIMES.

THE CONTRACTOR IS REQUIRED TO MAINTAIN POSITIVE DRAINAGE AWAY FROM THE ROADWAY SECTION THROUGH ALL PHASES OF CONSTRUCTION UNTIL THE PAVEMENT IS INSTALLED. IT IS ANTICIPATED THAT POSITIVE DRAINAGE SHALL BE MAINTAINED BY USE OF ANY COMBINATION OF THE FOLLOWING:

- DIVERT WATER FROM LOW AREAS BY CUTTING TEMPORARY SWALES OR DITCHED TO AN AREA WHERE POSITIVE DRAINAGE CAN BE OBTAINED.
- LEAVE LOW AREAS UNEXCAVATED TO AID WITH POSITIVE DRAINAGE UNTIL SUCH TIME THAT THE STORM SEWER CAN BE INSTALLED.
- CONSTRUCT STORM SEWER AS NECESSARY TO REACH THE LOW AREAS AND INSTALL A DROP PIPE STRUCTURE ON A STORM CONNECTION, A STORM STRUCTURE, OR THE STORM SEWER.
- ALL COSTS INVOLVED WITH MAINTAINING POSITIVE DRAINAGE SHALL BE INCLUDED IN THE UNIT PRICE FOR "EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION".

NON SEDIMENT SITE POLLUTION CONTROLS

NO SOLID OR LIQUID WASTE, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED IN STORMWATER RUNOFF. ALL NECESSARY BMP'S MUST BE IMPLEMENTED TO PREVENT THE DISCHARGE OF NON-SEDIMENT POLLUTANTS TO THE DRAINAGE SYSTEM OF THE SITE OR SURFACE WATERS OF THE STATE. NO EXPOSURE OF STORMWATER TO WASTE MATERIALS IS RECOMMENDED.

HANDLING OF TOXIC AND HAZARDOUS WASTES
DO: PREVENTS SPILLS, USE PRODUCTS UP - FOLLOW LABEL DIRECTIONS FOR DISPOSAL - REMOVE LIDS FROM EMPTY BOTTLES AND CANS WHEN DISPOSING IN TRASH - RECYCLE WASTES WHENEVER POSSIBLE. DON'T: POUR INTO WATERWAYS, STORM DRAINS, ONTO GROUND - POUR INTO SINKS, FLOOR DRAIN OR SEPTIC TANKS - BURY CHEMICALS OR CONTAINERS - BURN CHEMICALS OR CONTAINERS - MIX CHEMICALS TOGETHER.

TOXIC OR HAZARDOUS WASTES SHALL BE HANDLED WITH THE APPROPRIATE PROTECTIVE EQUIPMENT AND PROPERLY DISPOSED OF ACCORDING TO OCCUPATIONAL, SAFETY, HEALTH ADMINISTRATION (OSHA) AND ENVIRONMENTAL PROTECTION AGENCY (EPA) GUIDELINES. NO TOXIC/HAZARDOUS WASTE SHALL BE DISPOSED INTO STORM DRAINS, SEPTIC TANKS, OR BY BURYING, BURNING, OR MIXING WITH OTHER WASTE.

WASTE DISPOSAL
CONTAINERS (E.G., DUMPSTERS, DRUMS) SHALL BE AVAILABLE FOR DISPOSAL OF DEBRIS, TRASH, HAZARDOUS OR PETROLEUM WASTES. ALL CONTAINERS MUST BE COVERED AND LEAK-PROOF. ALL WASTE MATERIAL SHALL BE DISPOSED OF AT FACILITIES APPROVED FOR THE PERTINENT MATERIAL.

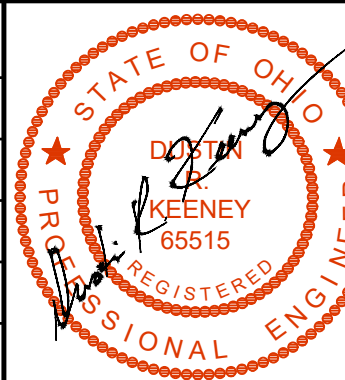
CLEAN HARD FILL
BRICKS, HARDENING CONCRETE, AND SOIL WASTE SHALL BE FREE FROM CONTAMINATION WHICH MAY LEACH CONSTITUENTS TO WATERS OF THE STATE.

CLEAN CONSTRUCTION WASTES THAT WILL BE DISPOSED INTO THE PROPERTY, SHALL BE SUBJECT TO ANY LOCAL PROHIBITIONS FROM THIS TYPE OF DISPOSAL.

CONSTRUCTION SEQUENCE NARRATIVE

- PROVIDE SAFE AND SECURE PEDESTRIAN AND VEHICULAR TRAFFIC CIRCULATION THROUGHOUT THE ENTIRETY OF THE CONSTRUCTION SEQUENCE WITH WELL DEFINED CONSTRUCTION BOUNDARIES TO BE ACCESSED BY CONSTRUCTION PERSONNEL ONLY. ALL EROSION CONTROLS ARE TO BE THOROUGHLY INSPECTED BY THE CONTRACTOR UPON THE COMPLETION OF EACH WORK DAY AND MAINTAINED THROUGHOUT THE REQUIRED LIFE OF THE CONTROL AS SPECIFIED BY THE APPROVED SWP3 PLANS AND NARRATIVE. CONTRACTOR MUST REVIEW THE SWP3 AND NARRATIVE.
- CONTRACTOR SHALL COMPLETE AND SUBMIT THE OEPA CO-PERMITEE NOTICE OF INTENT (N.O.I.) APPLICATION. ALL OPERATORS AT THE CONSTRUCTION SITE ARE REQUIRED TO BECOME CO-PERMITEES. INSTRUCTIONS AND FROMS CAN BE OBTAINED AT THE OEPA WEBSITE: www.epa.ohio.gov/Portals/35/storm/StormWater_Co-Permittee_Noi.docx
- INSTALL STONE CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE.
- DELIVER CONSTRUCTION TRAILER TO SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE.
- ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS. INLET PROTECTION SHALL BE INSTALLED AS PER PLAN DESIGNATION.
- INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS. FILTER FABRIC FENCE SHALL BE INSTALLED AS PER PLAN DESIGNATION.
- BEGIN CLEARING AND GRUBBING WITHIN THE DISTURBANCE LIMITS, AS REQUIRED.
- REMOVE TOPSOIL FROM AREAS AS NECESSARY. REMOVE FROM SITE PER OHIO ENVIRONMENTAL PROTECTION AGENCY (OHIO EPA) STANDARDS OR TEMPORARILY STOCKPILE MATERIAL IN DESIGNATED AREAS.
- AT A MINIMUM ALL CONTROLS ARE INSPECTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH PER 24 HOUR PERIOD. IF THE INSPECTION REVEALS THAT A CONTROL PRACTICE IS IN NEED OF REPAIR OR MAINTENANCE, WITH THE EXCEPTION OF A SEDIMENT SETTLING POND, IT MUST BE REPAIRED OR MAINTAINED WITHIN 3 DAYS OF THE INSPECTION. SEDIMENT SETTLING PONDS MUST BE REPAIRED WITHIN 10 DAYS OF THE INSPECTION.
- TEMPORARILY STORE MATERIAL EXCAVATED FOR CONSTRUCTION AT DESIGNATED AREAS. MATERIAL TO BE MAINTAINED FOR DUST CONTROL BY USE OF A COVER OR OTHER METHODS APPROVED BY OHIO EPA.
- IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SWALE. REMOVE SILT FROM BERM AS NECESSARY PRIOR TO CONTINUING EARTHWORK. MATERIAL SHOULD BE MECHANICALLY SPREAD AND DRIED PRIOR TO INCORPORATION INTO THE EARTHWORK PROCEDURES. ADEQUACY OF THE DRIED MATERIAL IS TO BE DETERMINED BY THE ONSITE GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDE BUT ARE NOT LIMITED TO, EXCESS SOIL MATERIALS, BUILDING MATERIALS, CONCRETE WASH WATER, SANITARY WASTES, ETC. THAT COULD ADVERSELY IMPACT WATER QUALITY. MEASURES SHALL BE PLANNED AND IMPLEMENTED FOR HOUSEKEEPING, MATERIALS MANAGEMENT, AND LITTER CONTROL WHEREVER POSSIBLE. RECYCLING OF EXCESS MATERIALS IS PREFERRED, RATHER THAN DISPOSAL. IF WASTE MATERIAL IS REMOVED FROM THE PROJECT SITE, THE CONTRACTOR MUST PROVIDE AN EROSION AND SEDIMENTATION CONTROL PLAN TO THE REGULATORY COUNTY CONSERVATION DISTRICT MAINTAINING JURISDICTION OF THE PROJECT SITE AS WELL AS THE COUNTY CONSERVATION DISTRICT MAINTAINING JURISDICTION OF THE DISPOSAL AREA.
- BEGIN EARTHMOVING AND SITE GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL.
- TEMPORARY STABILIZATION PROVIDES EROSION CONTROL ON AREAS IN BETWEEN CONSTRUCTION OPERATIONS. GRASSES WHICH ARE QUICK GROWING ARE SEEDDED AND USUALLY STAW MULCHED TO PROVIDE PROMPT, TEMPORARY SOIL STABILIZATION. TEMPORARY STABILIZATION IS REQUIRED BY OHIO EPA'S GENERAL CONSTRUCTION PERMIT TO BE APPLIED ON DISTURBED SOIL AREAS WITHIN 7 DAYS IF THE AREA IS INTENDED TO BE DORMANT FOR GREATER THAN 14 DAYS, OR WITHIN 2 DAYS IF THE AREA IS WITHIN 50 FEET OF JURISDICTIONAL WATER (STREAM OR WETLAND).
- BEGIN STORM SEWER AND OTHER UTILITY INSTALLATION. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY. INLET PROTECTION SHALL BE INSTALLED ON EACH STORM STRUCTURE UPON INDIVIDUAL COMPLETION.
- REPAIR/STABILIZE ALL AREAS DESIGNATED FOR TEMPORARY SEEDING AND MULCHING, INCLUDING AREAS WHERE SLOPE IS 3:1 OR GREATER, WHICH REQUIRE A MULCH NETTING. ANY AREAS AT FINAL GRADE OR THAT WILL LIE DORMANT FOR ONE YEAR OR MORE REQUIRE PERMANENT SEEDING WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE (REFER TO OHIO'S "RAINWATER AND LAND DEVELOPMENT" MANUAL). IN ADDITION, ANY AREAS WITHIN 50 FEET OF A STREAM AND AT FINAL GRADE REQUIRE EROSION CONTROLS WITHIN 2 DAYS OF REACHING FINAL GRADE. NOTE THAT A 70% VEGETATIVE DENSITY IS REQUIRED ON ALL DISTURBED SOIL AREAS FOR STABILIZATION.
- MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK. SEDIMENT BASINS & TRAPS SHOULD BE CLEANED OUT WHEN SILT OCCUPIES 40 PERCENT OF THE POND DEPTH.
- INSTALL CONCRETE CURBS(WHERE APPLICABLE) AND PAVEMENT SUBBASE. BEGIN BITUMINOUS OR CONCRETE PAVING, REMOVING STONE CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.
- STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.
- ALL REMAINING TEMPORARY SEDIMENT CONTROL PRACTICES (INLET PROTECT, SILT FENCE, ETC.) SHALL BE REMOVED UPON SITE STABILIZATION. NOTE 70% VEGETATIVE DENSITY IS REQUIRED ON ALL DISTURBED SOIL AREAS FOR STABILIZATION.
- PERMANANT SEEDING AND LANDSCAPING SHOULD BE APPLIED WITHIN THE WATER QUALITY AND DETENTION BASIN UPON COMPLETION.
- COMPLETE SITEWORK, PAVEMENT MARKINGS, FINAL LANDSCAPING, SIGN INSTALLATION(S), AND CLEAN-UP.
- RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 70% VEGETATIVE DENSITY IS ACHIEVED.
- IF, FOR ANY REASON, THE PROJECT IS SUSPENDED, THE CONTRACTOR SHALL INSURE THAT ALL INSTALLED EROSION MEASURES ARE FUNCTIONING AND PROPERLY MAINTAINED DURING THIS PERIOD, AND THAT ALL BARED SOILS ARE SEEDDED AND MULCHED WITH TEMPORARY SEED MIXTURE.
- ONCE FINAL STABILIZATION HAS BEEN ACHIEVED THE CONTRACTOR SHALL COMPLETE AND SUBMIT THE OEPA NOTICE OF TERMINATION (N.O.T) APPLICATION. INSTRUCTIONS AND APPLICATIONS ARE ALSO LOCATED ON THE EPA WEBSITE (SEE STEP #1). CONTRACTOR SHOULD VERIFY WITH THE OWNER THAT THE TERMS OF THE CONTRACT HAVE BEEN FINALIZED PRIOR TO SUBMITTING THE N.O.T.
- ALL QUESTIONS REGARDING EROSION CONTROL ARE TO BE DIRECTED TO POLARIS ENGINEERING AND SURVEYING AT (440) 944-4433 OR TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR REVIEW PRIOR TO THE COMMENCEMENT OF SUCH CHANGES AT THE CONSTRUCTION SITE.

REV. No.		DATE	BY		DATE: 10/20/22, DRAWN: JNG
					SCALE: HOR. 1"=20' VERT. N/A
					FOLDER: DWG/Proj_Engineering
					FILENAME: Site Plan
					TAB: 05-SWP3 Notes
					BNDY. CHK: RAT-11/10/21
					BASE. CHK: XXX-xx/xx/20xx



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SWP3 NOTES

CONTRACT No.

21183

SHEET

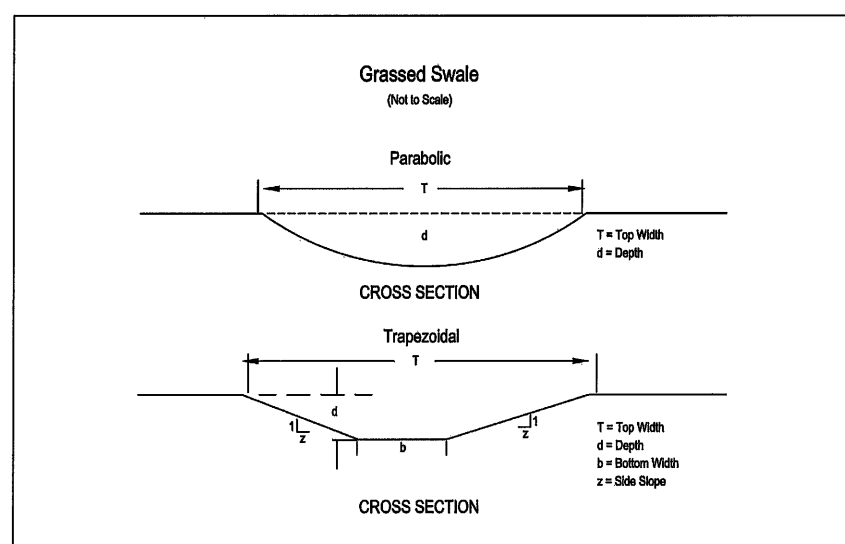
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Page 35

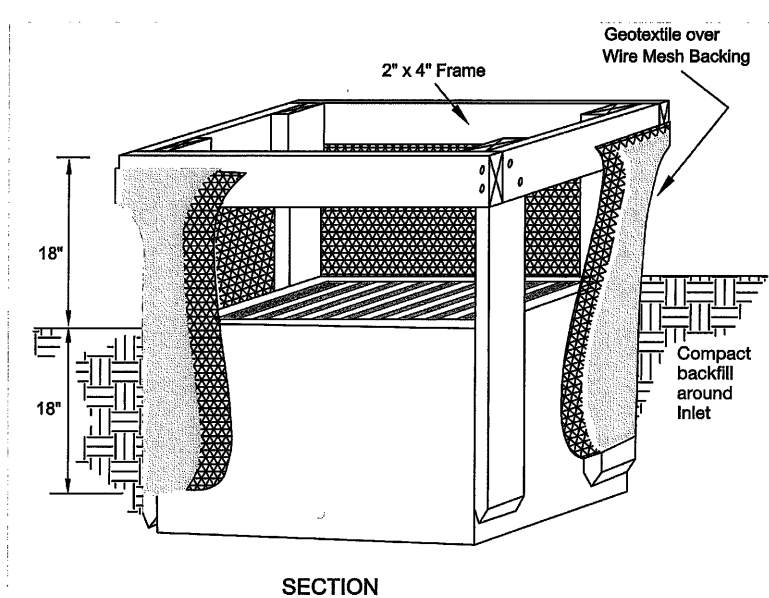
Specifications for Grassed Swale



- All trees, brush, stumps, and other unsuitable material shall be removed from the site.
- The channel shall be excavated and shaped to the proper grade and cross section.
- Fill material used in the construction of the channel shall be well compacted to uniform layers not exceeding 9 inches using the wheel tracks or tracks of the construction equipment to prevent unequal settlement.
- Excess earth shall be graded or disposed of so that it will not restrict flow to the channel or interfere with its functioning.
- Stabilization shall be done according to the appropriate specifications for permanent seeding, vegetative practices, sodding and matting.
- Construction shall be sequenced so that newly constructed channels are established prior to becoming operational. To aid in the establishment of vegetation, surface water may be prevented from entering the newly constructed channel through the establishment period.
- Stakes that may form in the channel or other erosion damage that occurs before the grass lining becomes established shall be repaired without delay.

CHAPTER 4 Permanent Runoff Control 7

Specifications for Geotextile Inlet Protection



- Inlet protection shall be constructed either before upslope land disturbance begins or before the inlet becomes functional.
- The earth around the inlet shall be excavated completely to a depth of at least 18 inches.
- The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overtop joint shown. The top of the frame shall be at least 6 inches below adjacent road if periodic water will pose a safety hazard to traffic.
- Wire mesh shall be of sufficient strength to support fabric with water fully impounded against it. It shall be stretched tightly around the frame and fastened securely to the frame.
- Geotextile material shall have an equivalent opening size of 20-40 sieve and be resistant to sunlight. It shall be stretched tightly around the frame and fastened securely. It shall extend from the top of the frame to 18 inches below the inlet notch elevation. The geotextile shall overlap across one side of the inlet at the ends of the cloth are not fastened to the same post.
- The wooden frame shall be constructed of 2-inch by 4-inch construction grade lumber. The 2-inch by 4-inch posts shall be driven one (1) ft. into the ground at four corners of the inlet and the top portion of 2-inch by 4-inch frame assembled using the overtop joint shown. The top of the frame shall be at least 6 inches below adjacent road if periodic water will pose a safety hazard to traffic.
- A compacted earth dike or check dam shall be constructed in the ditch line below the inlet if the inlet is not in a depression. The top of the dike shall be at least 6 inches higher than the top of the frame.

CHAPTER 6 Sediment Controls 39

Specifications for Temporary Seeding

Table T-6.1 Temporary Seeding Species Selection

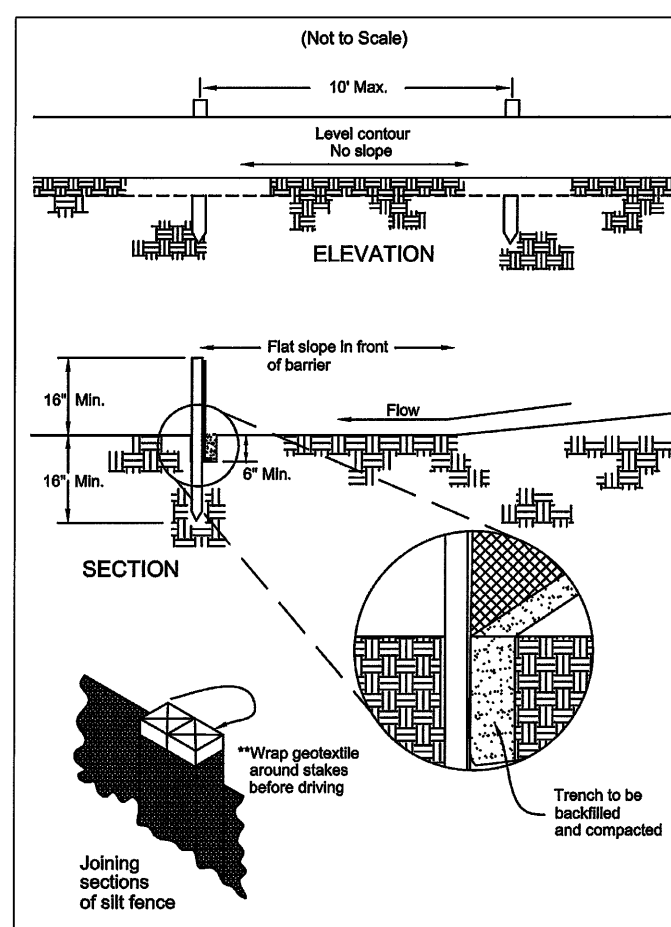
Seeding Date	Species	Lb./1000 ft ²	Lb./Acre
March 1 to August 15	Oats	3	128 (4 bushels)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1	40
	Tall Fescue	1	40
August 16th to November	Oats	3	128 (2 bushels)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142
November 1 to Feb. 29	Oats	3	128 (2 bushels)
	Tall Fescue	1	40
	Annual Ryegrass	1	40
	Perennial Ryegrass	1.25	55
	Perennial Ryegrass	3.25	142

Note: Other approved species may be substituted.

- Structural erosion and sediment control practices such as diversions and sediment traps shall be installed and stabilized with temporary seeding prior to grading the rest of the construction site.
- Temporary seed shall be applied between construction operations on soil that will not be graded or reseeded for 21 days or greater. These idle areas shall be seeded within 7 days after grading.
- The seedbed should be prepared and loose to ensure the success of establishing vegetation. Temporary seeding should not be postponed if local seedbed preparation is not possible.
- Soil Amendments—Temporary vegetation seeding rates shall establish adequate stands of vegetation, which may require the use of soil amendments. Base rates for lime and fertilizer shall be used.
- Seeding Method—Seed shall be applied uniformly with a cyclone spreader, drill, cutspreader, seeder, or hydroseeder. When feasible, seed that has been broadcast shall be covered by raking or dragging and then lightly tamped into place using a roller or outcripper. If hydroseeding is used, the seed and fertilizer will be mixed on-site and the seeding shall be done immediately and without interruption.

CHAPTER 7 Soil Stabilization 35

Specifications for Silt Fence



Specifications for Silt Fence

- Silt fence shall be constructed before upslope land disturbance begins.
- All silt fences shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are destroyed along its length.
- Ends of the silt fence shall be brought upslope slightly so that water ponded by the silt fence will be prevented from flowing around the ends.
- Silt fence shall be placed on the flattest area available. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
- The silt fence shall be placed in an excavated or sliced trench cut a minimum of 6 inches deep. The trench shall be made with a trencher, cable laying machine, ditching machine, or other suitable device that will ensure an adequately uniform trench depth.
- The silt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the fabric.
- Seams between sections of silt fence shall be spliced together only at a support post with a minimum 6-in. overlap prior to driving into the ground. (See details).
- Maintenance—Silt fences shall allow runoff to pass only as diffuse flow through the geotextile. If runoff overtops the silt fence, flow under the fabric or around the fence ends, or in any other way allows a concentrated flow discharge, one of the following shall be performed, as appropriate: 1) the layout of the silt fence shall be changed, 2) accumulated sediment shall be removed, or 3) other practices shall be installed.
- Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of the silt fence.
- Silt fences shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately.

Criteria for silt fence materials

- Fence post—The length shall be a minimum of 32 inches. Wood posts will be 2-by-2-in. nominal dimensional hardwood of sound quality. They shall be free of knots, splits and other visible imperfections, that will weaken the posts. The maximum spacing between posts shall be 10 ft. Posts shall be driven a minimum 18 inches into the ground, where possible. If not possible, the posts shall be adequately secured to prevent overturning of the fence due to sediment/water loading.
- Silt fence fabric—See chart below.

Table T-6.2 Minimum criteria for Silt Fence Fabric (DOTD 0002)

TEST METHOD	VALUES	TEST METHOD
Minimum Tensile Strength	120 lbs. (335 N)	ASTM D 4832
Minimum Elongation at 50 lbs.	20%	ASTM D 4832
Minimum Puncture Strength	60 lbs. (267 N)	ASTM D 4833
Minimum Tear Strength	40 lbs. (180 N)	ASTM D 4833
Aperture Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permeability	1200 ± 500 cm/s	ASTM D 4831
UV Exposure Strength Retention	70%	ASTM D 4395

34 CHAPTER 6 Sediment Controls

Concrete Washout Areas

Installation:

- Concrete wash water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance and washout pits shall be situated a minimum of fifty (50) feet from them.
- Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.
- Ensure a stable path is provided for concrete trucks to reach the washout area.
- A highly visible sign that reads "Concrete Washout Area" shall be erected adjacent to the washout pit.
- Surface runoff generated from upslope areas shall be diverted away from below-grade washout pits so as not to flow into them.
- A single centralized washout area may be utilized for multiple sublots.

Maintenance:

- The washout pit must be inspected frequently to ensure the liner is intact. Inspect weekly at minimum.
- Once 75% of the original volume of the washout pit is filled or if the liner is torn, the material must be removed and properly disposed of once it is completely hardened. Once the hardened concrete is removed, the liner must be replaced (if torn). A new pit must be constructed if the original structure is no longer suitable. Concrete to be disposed at an approved solid waste disposal site.

Removal:

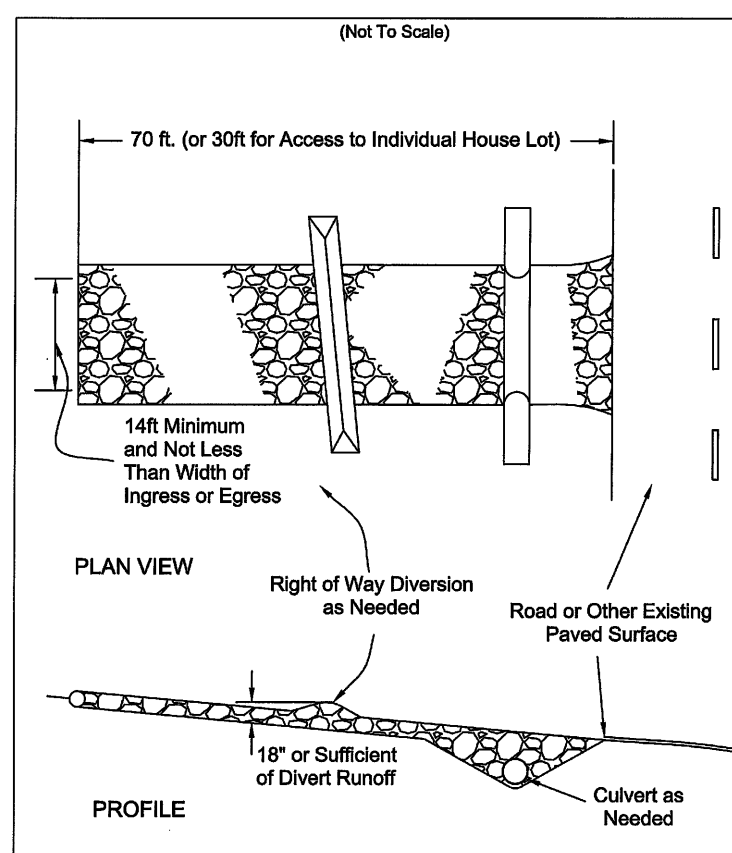
- Once the washout pit is no longer needed, ensure all washout material has completely hardened, then remove and properly dispose of all materials. If straw bales were used, they can be spread as mulch.
- Pre fabricated containers specifically designed for concrete washout collection may be used subject to prior approval by the Community Engineer. Follow the manufacturer's suggestions for installation, maintenance and removal procedures.

Sizing of Concrete Washout Pits

Below-grade (3-ft depth)			Above-grade (2-ft depth)		
# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)	# of concrete trucks expected to be washed out on site*	Width (ft)	Length (ft)
2-3	3	3	2	3	3
4-5	4	4	3-4	4	4
6-7	5	5	5-6	5	5
8-10	6	6	7-8	6	6
11-14	7	7	9-11	7	7
			12-15	8	8

*For small projects using a maximum of only one truckload of concrete or utilizing on-site mixing, rinsing of equipment may take place on the lot without a pit, provided it can be done a minimum of fifty (50) feet away from any water conveyances.

Specifications for Construction Entrance



Specifications for Construction Entrance

- Stone Size—DOTD # 2 (1.5-2.5 inch) stone shall be used, or recycled concrete equivalent.
- Length—The construction entrance shall be as long as required to stabilize high traffic areas but not less than 70 ft. (exception: apply 30 ft. minimum to single residence lots).
- Thickness—The stone layer shall be at least 6 inches thick for light duty entrances or at least 10 inches for heavy duty use.
- Width—The entrance shall be at least 14 feet wide, but not less than the full width at points where ingress or egress occurs.
- Geotextile—A geotextile shall be laid over the entire area prior to placing stone. It shall be composed of strong non-proprietary fibers and meet the following specifications:
- Timing—The construction entrance shall be installed as soon as is practicable before major grading activities.
- Culvert—A pipe or culvert shall be constructed under the entrance if needed to prevent surface water from flowing across the entrance or to prevent runoff from being directed out onto paved surfaces.
- Water Bar—A water bar shall be constructed as part of the construction entrance if needed to prevent surface runoff from flowing the length of the construction entrance and out onto paved surfaces.
- Maintenance—Top dressing of additional stone shall be applied as conditions demand. Mud spotted, dragged, washed or tracked onto public roads, or any surface where runoff is not checked by sediment controls, shall be removed immediately. Removal shall be accomplished by sweeping or sweeping.
- Construction entrances shall not be relied upon to remove mud from vehicles and prevent off-site tracking. Vehicles that enter and leave the construction-site shall be restricted from muddy areas.
- Removal—the entrance shall remain in place until the disturbed area is stabilized or replaced with a permanent roadway or entrance.

Figure T-6.1

Geotextile Specifications for Construction Entrance
Minimum Tensile Strength
Minimum Puncture Strength
Minimum Tear Strength
Minimum Burst Strength
Minimum Elongation
Aperture Opening Size
Permeability

20 CHAPTER 7 Soil Stabilization

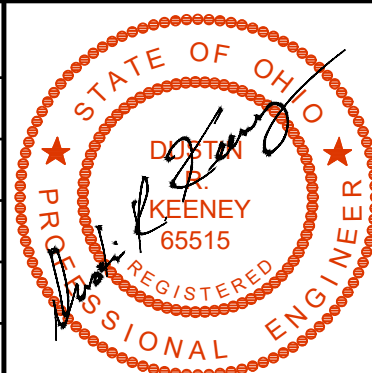
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SWP3 DETAILS

REV. No.	DATE	BY	DATE: 10/20/22, DRAWN: JNG
			SCALE: HOR. 1"=20' VERT. N/A
			FOLDER: DWG/Proj. Engineering
			FILENAME: Site Plan
			TAB: 06-SWP3 Details
			BNDRY. CHK: RAT-11/10/21
			BASE. CHK: XXX-xx/xx/20xx



CONTRACT No.

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