

Friday, October 20, 2023

\*\*PLEASE MUTE YOUR MICROPHONE\*\*

Lillian Kuri, Commission Chair

Joyce Pan Huang, Director

Michael Bosak, Administrator

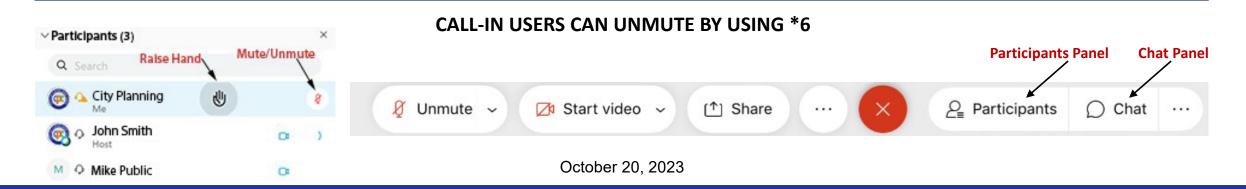
#### Preamble

IN COMPLIANCE WITH NOTIFICATION REQUIREMENTS OF OHIO'S OPEN MEETING LAW AND SECTION 101.021 OF THE CODIFIED ORDINANCES OF CLEVELAND, OHIO, 1976, NOTICE OF THIS MEETING HAS BEEN PUBLICLY POSTED.

ALL BOARDS AND COMMISSIONS UNDER THE PURVIEW OF THE CITY PLANNING DEPARTMENT CONDUCTS ITS MEETINGS ACCORDING TO ROBERT'S RULES OF ORDER. ACTIONS DURING THE MEETING WILL BE TAKEN BY VOICE VOTE. RECUSALS FROM ANY VOTE DUE TO A CONFLICT OF INTEREST SHOULD BE STATED FOR THE RECORD PRIOR TO THE TAKING OF ANY VOTE.

IN ORDER TO ENSURE THAT EVERYONE PARTICIPATING IN THE MEETING HAS THE OPPORTUNITY TO BE HEARD, WE ASK THAT YOU USE THE RAISE HAND FEATURE BEFORE ASKING A QUESTION OR MAKING A COMMENT. THE RAISE HAND FEATURE CAN BE FOUND IN THE PARTICIPANTS PANEL ON THE DESKTOP AND MOBILE VERSION AND ACTIVATED BY CLICKING THE HAND ICON. PLEASE WAIT FOR THE CHAIR OR FACILITATOR TO RECOGNIZE YOU AND BE SURE TO SELECT UNMUTE AND ANNOUNCE YOURSELF BEFORE YOU SPEAK. WHEN FINISHED SPEAKING, PLEASE LOWER YOUR HAND BY CLICKING ON THE RAISE HAND ICON AGAIN AND MUTE YOUR MICROPHONE.

WE WILL ALSO BE UTILIZING THE CHAT FEATURE TO COMMUNICATE WITH PARTICIPANTS. THE CHAT FEATURE CAN BE ACTIVATED BY CLICKING THE CHAT BUTTON LOCATED ON THE BOTTOM OF THE WEBEX SCREEN.



#### Preamble

ALL MEETING ACTIVITY IS BEING RECORDED VIA THE WebEx PLATFORM. THESE PROCEEDINGS ARE ALSO BEING LIVE STREAMED VIA YouTube.

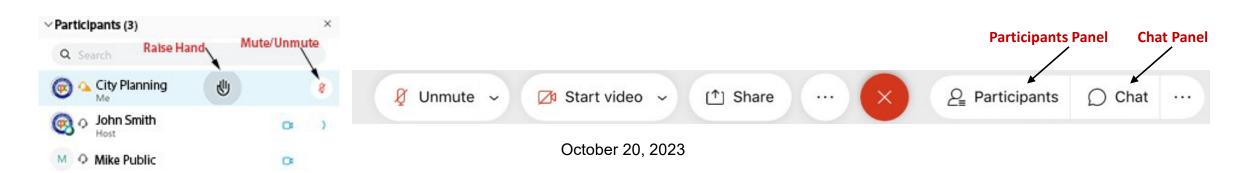
ALL REQUESTS TO SPEAK ON A PARTICULAR MATTER SUBMITTED THROUGH PROPER CHANNELS HAVE BEEN CONSIDERED. WE HAVE ALSO RECEIVED EMAILS FROM THOSE WHO HAVE PROVIDED WRITTEN COMMENT ON A PARTICULAR MATTER. PROPER CHANNELS FOR COMMENTS ARE LISTED BELOW.

COMMUNICATION WITH MEMBERS OF THIS BODY MUST FOLLOW PROPER CHANNELS FOR CONSIDERATION.

ANY COMMENTS RECEIVED BY THE <u>WEDNESDAY 12:00 PM</u> DEADLINE ARE COLLECTED BY CITY PLANNING STAFF AND DISSEMINATED TO THE COMMISSION MEMBERS PRIOR TO ANY SCHEDULED MEETING.

#### **Proper channels for public comment:**

- Sending an e-mail to the cityplanning@clevelandohio.gov address with a comment or a letter
- Calling and/or leaving a message at 216-664-2210
- Sending a letter or dropping off comments at City Hall (601 Lakeside Avenue, Suite 501, Cleveland, OH 44114)



#### **Meeting Rules and Procedures**

- The Chair will call each agenda item and then each applicant will be invited to proceed through their presentation.
- Each presentation should be completed prior to questions and comments from the Commission, in order to facilitate a smooth presentation.
- Once the presentation has concluded, the Chair will ask Planning staff to summarize Design Review Committee recommendations and any public comments received.
- The deadline for public comments is noon on the Wednesday prior to any regularly scheduled City Planning Commission meeting and will be read into the record. Any comments received by the deadline are distributed to Commission members prior to the meeting through Dropbox. Staff will also identify any members of the public present and scheduled to speak.
- Public comment is allowed at the discretion of the Chair and any individual providing public comment is permitted two (2) minutes to speak to the agenda item in which they have an interest.
- The Chair will then request a recommendation from staff, if applicable.
- The Commission will then begin deliberations and project review.
- Any Commission member, except the Chair, may make a motion at any point after an agenda item has been called.

### Call to Order and Roll Call



October 20, 2023



Lillian Kuri, President and Chief Operating Officer, The Cleveland Foundation

August Fluker, Managing Member, Fluker Consulting

Charles Slife, Council Representative, Ward 17

**Denise Mc-Cray Scott** PhD

**Erika Anthony**, Co-Founder and Executive Director, Cleveland VOTES

Andrew Sargeant, Director of Open Space and Planning, Cleveland Neighborhood Progress

### **Approval of Minutes from Previous Meeting**



### **Lot Consolidation / Splits**



### **Lot Consolidation / Split**

EVELANG ONCE

October 20, 2023

For PPNs# 007-08-094 & -171

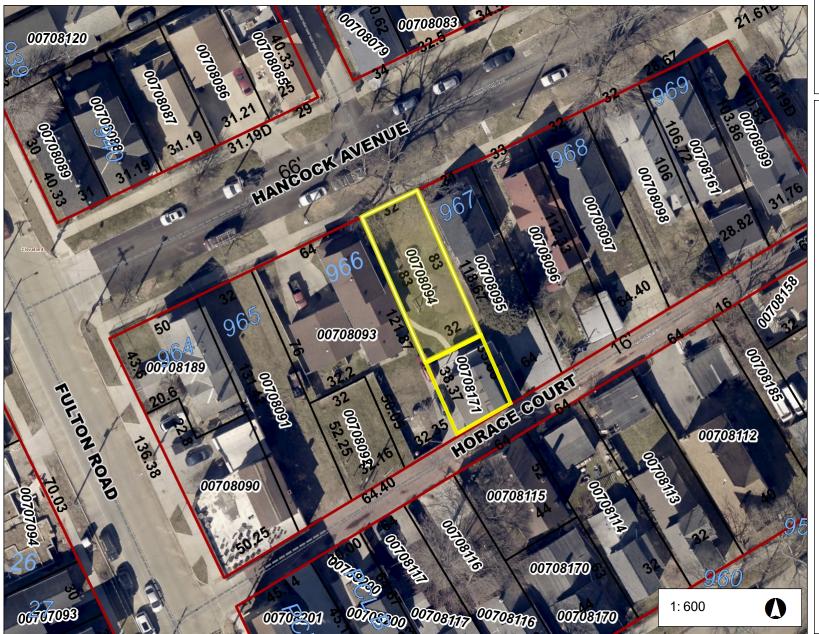
**Address: 3402 Horace Court** 

Representative: Michael Straub, Straub Surveying

SPA: Ohio City



#### Cuyahoga County GIS Viewer





Date Created: 9/13/2023

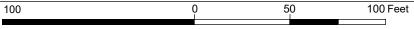
Legend

- Municipalities
- Right Of Way
- -- Platted Centerline
- □Parcel

Aerial View
Proposed Consolidation
for
Melanie Rodriguez Cortes

**Current Owners** 

007-08-094: City of Cleveland Land Reutilization Program 07-08-171: Melanie Rodrigues Cortes



This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.

THIS MAP IS NOT TO BE USED FOR NAVIGATION



Projection:

WGS\_1984\_Web\_Mercator\_Auxiliary\_Sphere







**Approvals** I, the undersigned owner of the land shown hereon, do hereby accept this plat of consolidation. Known as part of Sublot No. 966 This plat of consolidation is accepted & approved by the Planning Director of the City of Cleveland, Ohio this \_ \_ day of \_ Barber and Lord's Subdivision Owner's Signature of a part of Original Brooklyn Township Lot Nos. 51, 52, 69, and 70 Joyce Pan Huang - Planning Director **Printed Name** County of Cuyahoga, State of Ohio This plat of consolidation is accepted & approved by the Platting Commissioner of County of Cuyahoga as shown in Plat Volume 11, Page 26 the City of Cleveland, Ohio this State of Ohio } SS of Cuyahoga County Plat Records Before me, a notary public in and for said county and state, personally appeared the above named owner who acknowledged that she did sign the foregoing instrument and that it was her own free act and deed. In witness whereof I have hereunto set my hand and official seal at \_ Richard Switalski - Platting Commissioner Ohio this \_\_\_\_ day of 2023. 1 INCH = 15 FT.Notary Public My Commission Expires Capped Iron Pin Found DH/Stone in MB Capped Iron Pin (CIP) Set 0.12' N Iron Pin (IP) Found as Described (CoC & U) Iron Pipe (IPP) Found as Described N 74°49'42" E 417.91' R5 417.97' R3 417.98' R7 & U Monument Box (MB) Found as Described 64.40' C & U 115.52' R3 & M Hancock Avenue 66' Proposed Land Hook Cuyahoga County Plat Records 90°12'30"' CoC, M & U 95°33'40" R8 95°33'19"' M Permanent Parcel Number Right of Way (ROW) Line Record Property Line Subject Property Line CIP (Bruckner - R3) CIP (Bruckner - R3) 0.08' E, 0.03' N 178.93' C 178.28' R6 32.00' R2 64.40' R3 & U 32.20' C & U 2.88' S, 0.95' W 32.00 R9 S/LI 969 S/L 964 Parcel "A" Surveyor's Notes & Basis of Bearings: As of the date of this map, Parcel 007-08-094 is owned by the City of 3898 Sq. Feet Cleveland Land Reutilization Program per AFN 201312130082 CCDR. It is 0.0895 Acres intended to be transferred to Melanie Rodriguez Cortes for consolidation to her parcel, being PPN 007-08-171. This map was prepared without the benefit of a Title Report and is not **CORTES, MELANIE** intended to reflect all easements, encumbrances, or other items affecting the Barber and Lord's Subdivision
Plat Volume 11, Page 26 RODRIGUEZ AVILES. JOSF & CLAUDINI IATOS ANGEL L & SONIA A VALGENBACH, EMILY N. PPN 007-08-093 PPN 007-08-091 PPN 007-08-094 PPN 007-08-095 The basis of bearings for this survey, as shown, is the centerline of Hancock Deed Volume 96-02885 AFN 202208150189 Page 15 CCDR Avenue based on the Plat of Lot Split dated March 2, 2015 and recorded in Plat Vol. 380 Pg. 25, and is to an assumed meridian used to denote angles only. Distances are in feet and decimal parts thereof. Unless shown otherwise, measurements to monuments found are rectangular measurements from property lines, right-of-way lines, centerlines or other as appropriate. CIP set are 5/8" x 30" rebar with yellow cap stamped Straub Surveying PS#7055. References used are listed hereon. This map was prepared from a survey performed by me or under my direction in February, 2023, and meets the requirements defined in Chapter 4733-37 of the Ohio Revised Code, Minimum Standards for Boundary Surveys. This map is not 5/8" IP 0.05' W valid unless signed and stamped by Surveyor. 0.0614 Acres 0.22' W, 1.00' N Date Signed: 9/14/23 32.00' R9 1226 Sq. Feet 0.0281 Acres **CORTES, MELANIE** CITY OF CLEVELAND LAND REUTILIZATION PROGRAM RODRIGUEZ 92.99' C 92.78' R6 PPN 007-08-092 PPN 007-08-171 28.82' R6 AFN 201402280108 AFN 202108230317 CCDR 96.60' R & U 32.20' R6 CL MB (no mon.) U for CL 32.36' C & U 32.20' R9 0.86' E'ly along CL 32.36' C & M 0.85' E (M along R/W) 32.35' R3 CIP (DJB 6939) F & U N 69°09'36" E 371.08' C-M 371.01' CoC (ROW to ROW) 32.35' C 31.89' D 32.53' C 0.43' N (0.50' R3) CIP (DJB 6939) F & U 0.42' N (0.50' R3) Horace Court 16' References:
R1 Cuyahoga County GIS, CIP (Kole) R2 Plat of Barber and Lord Subdivision Vol. 11, Pg. 26 84°7'24''' C 84°7'45<sub>\</sub>" CoC R3 Plat of Consolidation Vol. 281, Pg. 76 R4 Plat of Consolidation Vol. 328, Pg. 39 R5 Plat of Lot Split Vol. 380, Pg. 25 Cuyahoga County Tax Map 7, Pg. 8 R7 City of Cleveland Survey Record 53, Pgs. 12-15 33.17' C & M DH/Stone in ME R8 City of Cleveland Survey Record 60, Pgs. 144-148 F&U R9 Subject Deed as shown R10 Adjoining Deeds as shown / Monroe Avenue 66' DH/Stone in MB Date of Survey: February, 2023 Revisions STRAUB SURVEYING, LLC Field Book: 61 Pg. 21 Prepared For Sht. Lot Consolidation Survey By: E Straub/K Kallio Melanie Rodriguez Drawn By: C Sommers/M Straub CS R3 | 8/4/23 Revise per Add'l County Comments 3402 Horace Court PROFESSIONAL LASER SCANNING AND SURVEYING SERVICES Checked By: C Sommers Cortes CS R2 8/1/23 Revise per County Comments Cleveland, Ohio CS R1 7/31/23 Project No. 22-137 Revise per City Comments 3402 Horace Court LAKEWOOD, OHIO 44107 12815 DETROIT AVENUE INFO@STRAUBSURVEYING.COM DWG: 22-137 Horace Court.dwg Cleveland, Ohio 44113 CS/MS PHONE: 440-333-1700 R0 7/6/23 Original Issue NO. DATE **DESCRIPTION** 

### **Staff Report**



### **Design Review Cases**



#### **Near West Design Review Case**

LE CHELANDON

October 20, 2023

NW2023-030 - PB Express Staging & Transition Facility: Seeking Final Approval

SPA: Old Brooklyn

**Project Address: 3800 Valley Road** 

Project Representative: Jeff Foster, Payto Architects

### PERMIT CONSTRUCTION DOCUMENTS FOR:

3800 MALLEY ROAD CLEVELAND, OH 44109

### **OWNER:**

PB EXPRESS 20800 CENTER RIDGE ROAD ROCKY RIVER, OH 44116







PERMIT CONSTRUCTION DOCUMENTS: JULY 18, 2023



405 Bradley Building 1220 West Sixth Street Cleveland, Ohio 44113 (216)241-6800 WWW.PAYTOARCHITECTS.COM

### STRUCTURAL ENGINEER:

**OREVEC DESIGN BUILD** 9329 RAVENNA RD. SUITE E TWINSBURG, OH 44087 (330) 552-8211

### MEP ENGINEER:

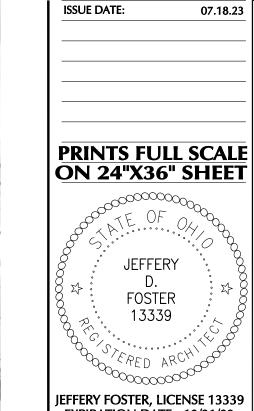
**DENK ASSOCIATES 503 EAST 200TH STREET** CLEVELAND, OH 44119 (216) 531-8880

### **CIVIL ENGINEER:**

WEBER ENGINEERING 2555 HARTVILLE RD. HARTVILLE, OH 44272 (330) 329-2037

### **DESIGN-BUILDER:**

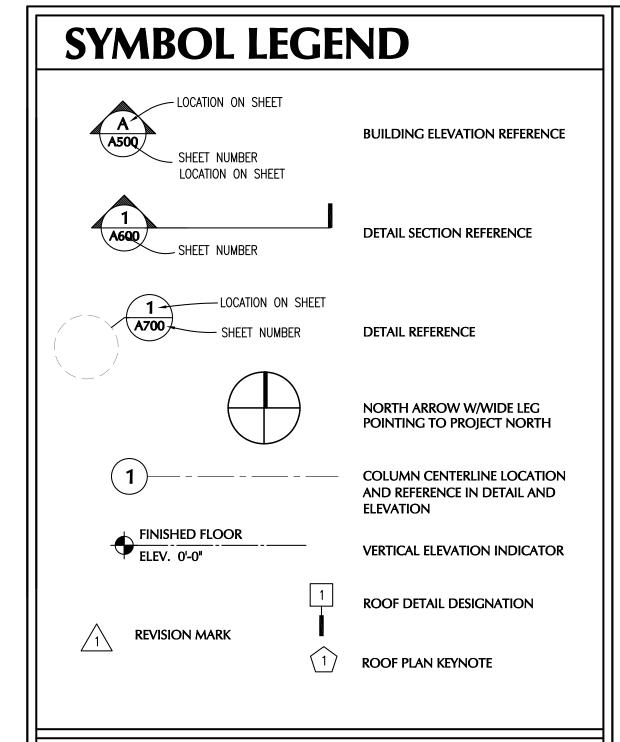
**BOLTON PRATT COMPANY** 271 ALPHA DRIVE HIGHLAND HEIGHTS, OH 44143 (216) 674-0240





**TS100 PERMIT & CONSTRUCTION** 

**DOCUMENTS** 



### **GENERAL NOTES**

- CONTRACTOR(S) SHALL CHECK AND VERIFY ALL DIMENSIONS, CONDITIONS AND NOTES AT THE SITE AND NOTIFY THE ARCHITECT OF ANY AND ALL IRREGULARITIES, CONFLICTS, OR DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY FABRICATION OR CONSTRUCTION.
- SHOULD THERE BE ANY CONFLICT OR DISCREPANCY BETWEEN THE CONSTRUCTION NOTES SHOWN ON THESE DRAWINGS AND THE TECHNICAL SPECIFICATIONS CONTAINED IN THE PROJECT MANUAL, THE MORE RESTRICTIVE CONDITION OF THE TWO SHALL APPLY.
- DO NOT SCALE DRAWINGS. ALL WRITTEN DIMENSIONS SHALL GOVERN. ALL INSTALLATIONS SHALL BE ACCURATELY FIELD MEASURED PRIOR TO FABRICATION.
- ALL MATERIALS AND PRODUCTS ARE TO BE FABRICATED AND INSTALLED PER THE MANUFACTURERS RECOMMENDATIONS AND DIRECTION. ALL RELATED MATERIALS (FASTENERS, ADHESIVES, ACCESSORIES, ETC.) SHALL BE APPROVED BY THE MANUFACTURER. ANY FIELD ENGINEERING SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR IF REQUIRED BY THE MANUFACTURER.
- INSTALLATION OF ALL MATERIALS SHALL PROVIDE FOR NECESSARY EXPANSION AND CONTRACTION PER THE MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS BASED ON THE PARTICULAR INSTALLATION SITUATION AND

### **DRAWING INDEX**

C104A PARTIAL GRADING PLAN

SITE DETAILS

C105A SITE DETAILS

C105B SITE DETAILS

C105C SITE DETAILS

C106A SWP3 DETAILS

**SWP3 DETAILS** 

**SWP3 DETAILS** 

**SWP3 DETAILS** 

C106 SWP3

C109

TITLE	SHEET
TS100	TITLE SHEET
TS101	DRAWING INDEX, GENERAL NOTES, CODE
SP101	ARCHITECTURAL SITE PLAN
CIVIL	/ LANDSCAPE
C100	CIVIL TITLE SHEET
C100A	EXISTING CONDITIONS
C100B	OVERALL SITE PLAN
C101	DEMOLITION PLAN
C102	PARTIAL SITE PLAN
C102A	PARTIAL SITE PLAN
C103	UTILITY PLAN
C103A	PARTIAL UTILITY PLAN
C104	PARTIAL GRADING PLAN

**SWP3 DETAILS** C112 SWP3 DETAILS **ARCHITECTURAL** 

**FLOOR PLAN ROOF PLAN UTILITY PLAN EXTERIOR ELEVATIONS &** & BUILDING SECTIONS A300 ENLARGED FLOOR PLANS REFLECTED CEILING PLAN **DETAIL SECTIONS DETAIL SECTIONS** FINISH SCHED. & PARTITION TYPES **DOOR SCHEDULE & DETAILS STRUCTURAL GENERAL STRUCTURAL NOTES GENERAL STRUCTURAL NOTES** FOUNDATION PLAN **ROOF FRAMING PLAN FOUNDATION DETAILS** FRAMING DETAILS **COLD FORM FRAMING DETAILS** 

CIVIL / LANDSCAPE (CON'T)

C110 SWP3 DETAILS

**MECHANICAL** M001 MECHANICAL LEGENDS, SCHEDULES, AND DETAILS M002 PLUMBING ISOMETRICS MECHANICAL SPECIFICATIONS PLUMBING PLAN **HVAC PLAN** 

#### **ELECTRICAL**

**ES100 ELECTRICAL SITE PLAN ELECTRICAL NOTES, LEGENDS, AND SPECIFICATIONS ELECTRICAL DETAILS, SCHEDULES & POWER RISER DIAGRAM** 

**POWER & COMMUNICATIONS PLAN** 

**LEGEND** 

EGRESS EXIT

HANDHELD PORTABLE FIRE

EXTINGUISHER LOCATIONS

#### **CODE INFORMATION:**

THIS PROJECT IS DESIGNED UNDER AND COMPLIES WITH THE 2017 OHIO BUILDING CODE (OBC), CURRENT RELEASE (AND REFERENCED STANDARDS) AND THE NFPA LIFE SAFETY CODE. THE SCOPE OF THE WORK IS THE REMOVAL OF AN EXISTING ABANDONED TRUCKING DEPOT AND THE CONSTRUCTION OF A NEW OFFICE AND SERVICE FACILITY FOR A SHIPPING **CONTAINER BROKER.** 

S-1 - PER SECTION 311

B - PER SECTION 304 NONE REQUIRED PER TABLE 508.4 REQUIRED SEPARATION: FIRE PROTECTION: NONE EXISTING, NONE PROPOSED, NONE REQUIRED. 5-B CONSTRUCTION TYPE PER TABLE 601 TYPE OF CONSTRUCTION: TOTAL BUILDING AREAS: ACTUAL: ALLOWABLE PER 506.2: 3,162 SF S-1 USE GROUP 2,382 SF B-USE GROUP: TOTAL BUILDING: 5,544 SF 17,500 SF

**MEANS OF EGRESS:** 

PROPOSED USE GROUP:

OCCUPANT LOAD PER 1004.1.2: 100 SF PER PERSON FOR BUSINESS AREA = 24 PEOPLE 200 SF PER PERSON FOR SHOP AREA = 16 PEOPLE

PROPOSED USE GROUP OCCUPANT LOAD: REQUIRED EGRESS WIDTH: B-OFFICE 24 PEOPLE BASED ON 100 SF PP .2" PP = 4.8" = (2) 3'-0" WIDE DOORS S-1 SHOP AREA 16 PEOPLE BASED ON 200 SF PP .2" PP = 1.6" = (2) 3'-0" WIDE DOORS

EGRESS WIDTH PER OCCUPANT (SECTION 1005.3.1):

STAIRWAYS: 0.3" PER OCCUPANT OTHER EGRESS COMPONENTS: 0.2" PER OCCUPANT 2 MEANS OF EGRESS REQ'D PER 1006.3.1

EXIT ACCESS TRAVEL DISTANCE (MAXIMUM): 250'-0", TABLE 1017.2 WITHOUT SPRINKLER SYSTEM DEAD END CORRIDORS (MAXIMUM): 50' PER SECTION 1020.4

PLUMBING FIXTURES:

NUMBER OF FIXTURES REQUIRED: (PER BUILDING) PER 2902.1 REQUIRED: WATER CLOSETS MEN 1 PER 50 = 1 FIXTURE -1 PER 50 = 1 FIXTURE -GENDER NEUTRAL = 0 FIXTURES 3 FIXTURE = 2 FIXTURE 3 FIXTURE 1 PER 80 = 1 FIXTURE -WOMEN 1 PER 80 = 1 FIXTURE -GENDER NEUTRAL = 0 FIXTURES 3 FIXTURES = 2 FIXTURE 3 FIXTURE DRINKING FOUNTAINS: 1 PER 1,000 = 1 FIXTURES BOTTLED WATER PROVIDED

1 TOTAL = 1 FIXTURE 1 FIXTURE SERVICE SINK: SEPARATE MENS AND WOMENS FACILITIES PROVIDED PER 2902.2

SEPARATION OF INCIDENTAL USES (TABLE 509): NONE PROPOSED

**FIRE RESISTANCE RATINGS:** 

SEPARATION OF MIXED USED (TABLE 508.4): STRUCTURAL FRAME: 0 HOUR, TABLE 601 INCLUDES: COLUMNS, GIRDERS & TRUSSES

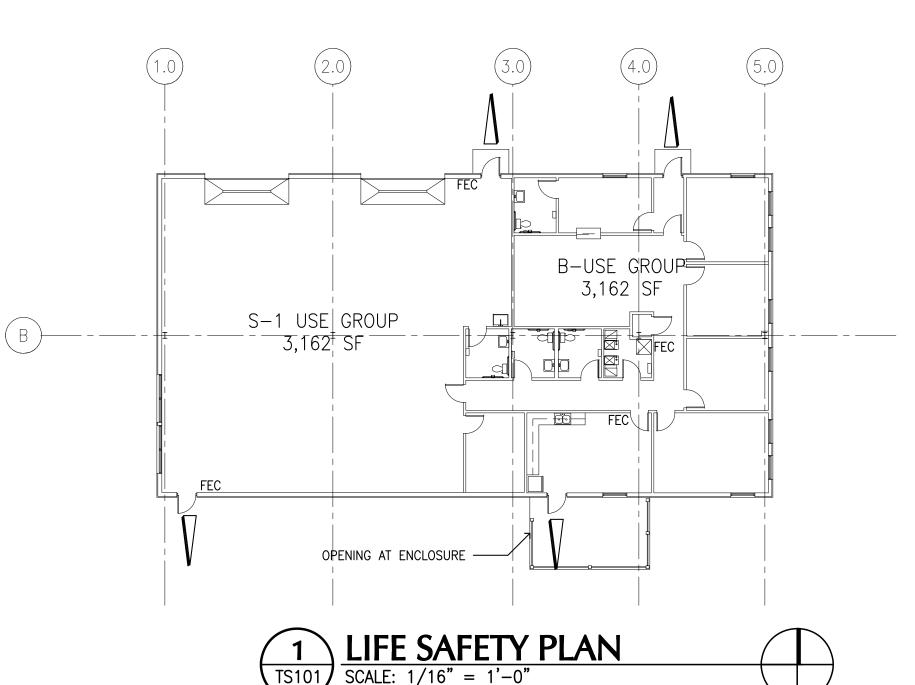
BEARING WALLS: 0 HOURS, TABLE 601 EXTERIOR:

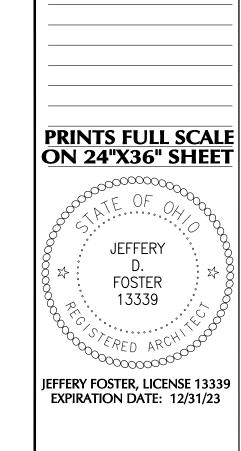
0 HOUR, TABLE 601 INTERIOR: NON-BEARING WALLS: 0 HOUR, TABLE 601 EXTERIOR: INTERIOR: 0 HOUR, TABLE 601

FLOOR CONSTRUCTION: 0 HOUR, TABLE 601 INCLUDES: SUPPORTING BEAMS & JOISTS

ROOF CONSTRUCTION: 0 HOUR, TABLE 601 INCLUDES: SUPPORTING BEAMS & JOISTS INTERIOR FINISHES (TABLE 803.11):

VERTICAL EXITS & EXIT PASSAGEWAYS: EXIT ACCESS CORR. & OTHER EXITWAYS: CLASS C ROOMS & ENCLOSED SPACES:

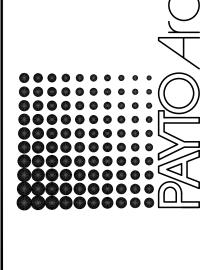




ISSUE DATE:

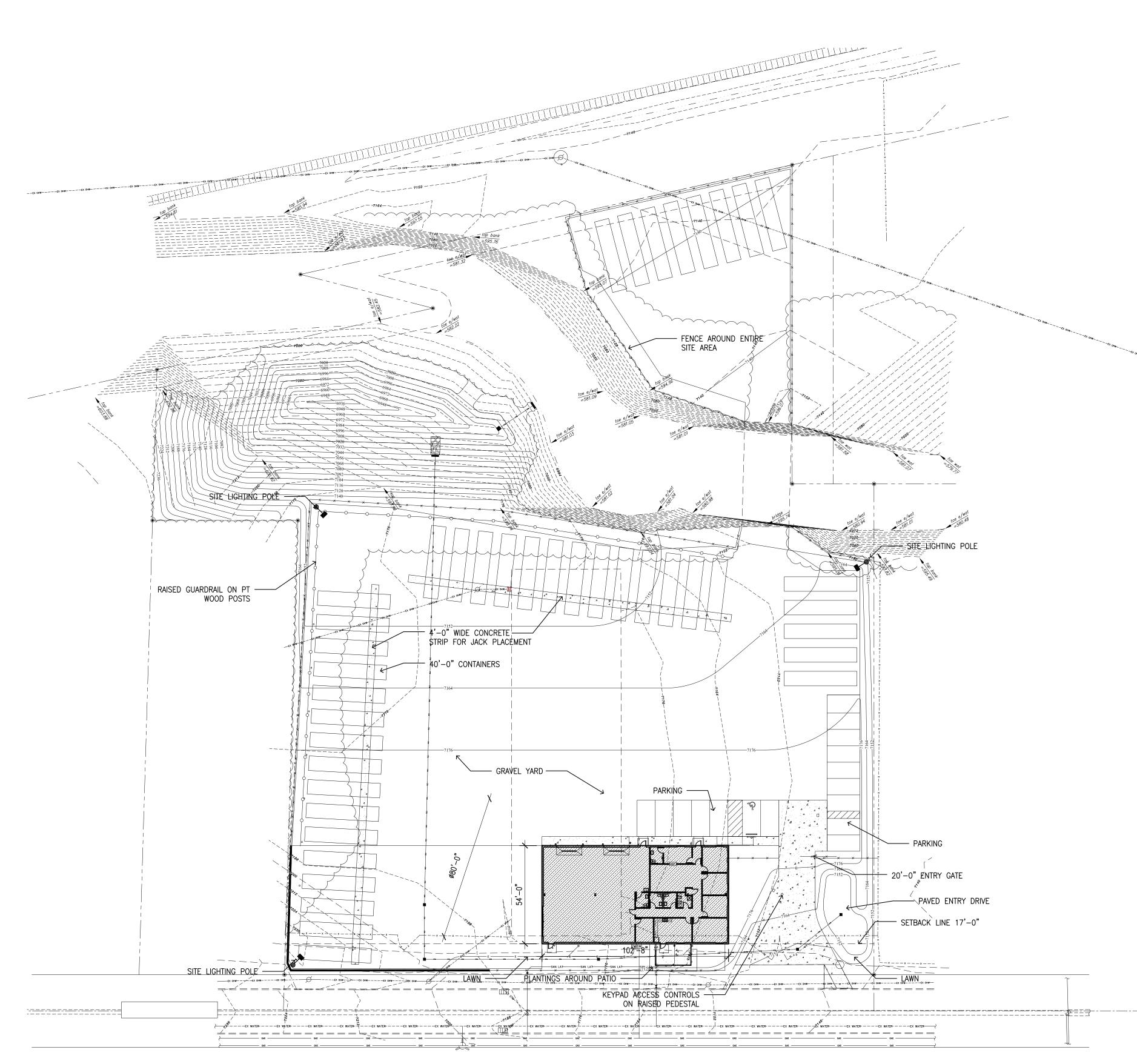
07.18.23

AND LEY RC



DRAWING INDEX, GENERAL NOTES, CODE DATA PA PROJECT NO. CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION **DOCUMENTS** 



ARCHITECTURAL SITE PLAN

SCALE: 1/32" = 1'-0"



PERMIT & CONSTRUCTION
DOCUMENTS

ISSUE DATE:

07.18.23

# PB EXPRESS

## CITY OF CLEVELAND COUNTY OF CUYAHOGA STATE OF OHIO

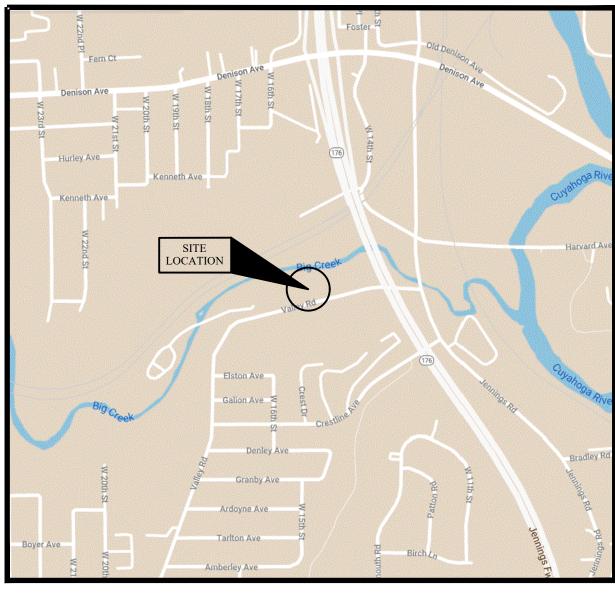
#### **GENERAL NOTES**

- THE CONSTRUCTION OF THIS PROJECT SHALL BE GOVERNED BY THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION (O.D.O.T.) CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, THE O.D.O.T. STANDARD CONSTRUCTION DRAWINGS, AND THE CITY OF CLEVELAND SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS.
- ALL DISTURBED GREEN AREAS SHALL BE TOP DRESSED AND RE-SEEDED.
- CALL OHIO UTILITIES PROTECTION SERVICE BEFORE DIGGING (800-362-2764).
- 4. ALL STORM SEWERS SHALL BE HIGH DENSITY POLYETHYLENE PIPE (HDPE), SMOOTH LINED, PER O.D.O.T. ITEM 707.33 UNLESS WITHIN THE R/W WHERE VCP PIPE SHALL BE USED.
- ELECTRICAL CONDUIT SHALL BE AS REQUIRED BY THE UTILITY OWNER.

WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL SANITARY SEWER.

THE CITY OF CLEVELAND ENGINEER'S OFFICE.

- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS IN THE ENGINEERING
- 7. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SILTATION CONTROL MEASURES NECESSARY TO PREVENT SILT FROM LEAVING THE SITE.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF DEMOLITION MATERIAL AND DEBRIS.
- 9. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION, OR BETTER.
- 10. TEMPORARY SOIL EROSION AND SEDIMENT CONTROL WILL BE REQUIRED IN ACCORDANCE WITH
- 11. A 18 INCH. MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF
- ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE. 12. A 10 FOOT MINIMUM HORIZONTAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF
- ALL WATER MAIN PIPE TO THE OUTSIDE EDGE OF ALL STORM SEWER PIPE. 13. AN 18" MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED FROM THE OUTSIDE EDGE OF ALL





#### SANITARY NOTES

- ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL (WPC) AND THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD).
- ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE
- APPROVAL BY THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL (WPC) AND THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) OFFICES CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
- ALL SANITARY SEWER LATERALS SHALL BE LAID AT NO LESS THAN 1% GRADE.
- DIVISION OF WATER POLLUTION CONTROL (WPC) AND THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) AND O.E.P.A. STANDARDS.
- THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWERAGE SYSTEM RESULTING FROM NON-CONFORMANCE WITH THE CITY OF CLEVELAND DIVISION OF WATER POLLUTION CONTROL (WPC) AND THE NORTHEAST OHIO REGIONAL SEWER DISTRICT (NEORSD) STANDARDS OR GENERAL NEGLIGENCE.
- SANITARY SEWER MATERIAL WITHIN PRIVATE PROPERTY SHALL CONSIST OF PVC SDR-35 MEETING ASTM D3034 WITH JOINTS CONFORMING TO ASTM D3212. \*(CHECK STANDARDS FOR APPROVED MATERIAL AND ASTM SECTION)\*
- 8. THE OWNER (CONTRACTOR) MUST ALERT THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATING HAS BEGUN.
- 9. ALL UNDERGROUND LINES ENCOUNTERED BY CONSTRUCTION OF SANITARY SYSTEM ARE TO BE COMPLETELY RESTORED AT THE EXPENSE OF THE CONTRACTOR.



2555 Hartville Rd., Suite B Rootstown, OH 44272 www.WeberEngineeringServices.com 330-329-2037 matt@webercivil.com



Reg. No.: 61709

CLIENT:



CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

> Issue Date 06-28-2023 07-18-2023

TITLE

PB SITI 380

SHEET NO.

C100

C100A

C100B

C102-C102A C103-C103A

C104-C104A

C105-C105C

C106A-C112

C101

C106

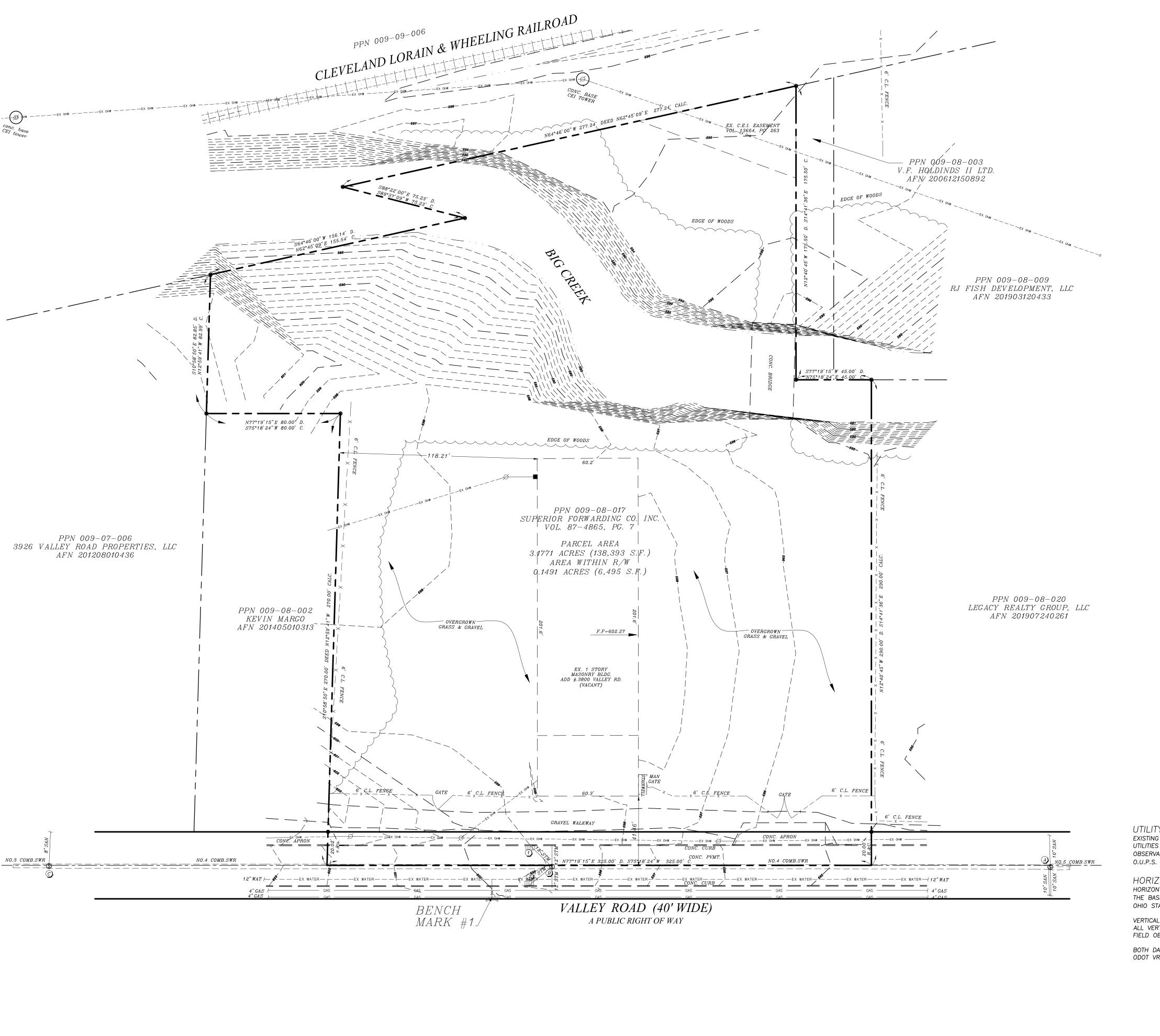
**INDEX** 

DESCRIPTION

TITLE SHEET **EXISTING CONDITIONS** OVERALL SITE PLAN **DEMOLITION PLAN** PARTIAL SITE PLAN PARTIAL UTILITY PLAN SITE DETAILS SWP3

PARTIAL GRADING PLAN

SWP3 DETAILS



SITE BENCH MARK

BENCH MARK #1
TOP NUT OF HYDRANT

ELEVATION = 602.96

EX. STORM STRUCTURE SCHEDULE

(1) EX. STM INLET RIM:599.01 INV:595.89(12"SE) TOP TRAP ASSY. TO BOTTOM:594.10 COVER MISSING

EX. STM INLET
RIM:598.81
INV:596.96(12"NE)
TOP TRAP ASSY.
TO BOTTOM:595.41
COVER MISSING

INV: 582.75(10" S)
INV: 582.69(10" N)

EX. COMB. MH
RIM: 598.94
INV: 586.60(N0.4W)
INV: 586.47(N0.4)
INV: 593.82(12" SW)
INV: 590.44(8" N)
INV: 588.51(12" N)
INV: 588.58(12" S)

© EX. COMB. MH RIM: 609.51 INV: 592.51 (NO.4E&3W) INVERT RECESSED INV: 599.15(8"N)

EX. COMBINED

<u>STRUCTURE</u>

<u>SCHEDULE</u>

INV: 580.49(NO.4W) INV: 579.54(NO.5E) INV: 587.19(10"S)

LEGEND

ITALICS TEXT REPRESENTS EXISTING CONDITION
NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION

© CENTER LINE

P PROPERTY LINE

Z CONSOLIDATED LOTS

◎ IRON PIN/PIPE FOUND

• IRON PIN SET

M MONUMENT BOX FOUND

• IRON NAIL SET

\$\times EXISTING FIRE HYDRANT

EXISTING GUTTER INLET BASIN

© EXISTING POWER POLE

• EXISTING GUY ANCHOR

\$\phi\$ EXISTING LIGHT POLE

UTILITY STATEMENT

EXISTING UTILITIES AS SHOWN ARE BASED UPON OBSERVABLE STRUCTURES. UTILITIES MAY EXIST IN THE SURVEY AREA THAT WERE EITHER NOT FOUND OR OBSERVABLE. PRIOR TO EXCAVATION AND/OR DEMOLITION CONTACT: O.U.P.S. (OHIO UTILITIES PROTECTION SERVICE).

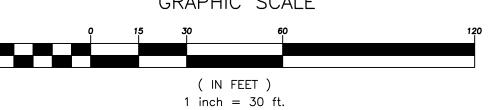
HORIZONTAL AND VERTICAL DATUM HORIZONTAL BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THE PREMISES SURVEYED IS NAD83 (CORS96)
OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (3401).

VERTICAL DATUM: ALL VERTICAL BENCH MARK INFORMATION SHOWN PER G.P.S. VRS FIELD OBSERVATIONS DATED JULY 15, 2022.

BOTH DATUMS WERE ESTABLISHED USING GPS EQUIPMENT CONNECTED TO THE ODOT VRS RTK NETWORK.



GRAPHIC SCALE





2555 Hartville Rd., Suite B Rootstown, OH 44272 www.WeberEngineeringServices.com 330-329-2037

matt@webercivil.com



Reg. No.: 61709

CLIENT:



1220 WEST SIXTH STREET CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

> Issue Date 06-28-2023 07-18-2023

EXPRESS
E IMPROVEMENTS
OVALLEY ROAD, CLEVELAND, OHIO

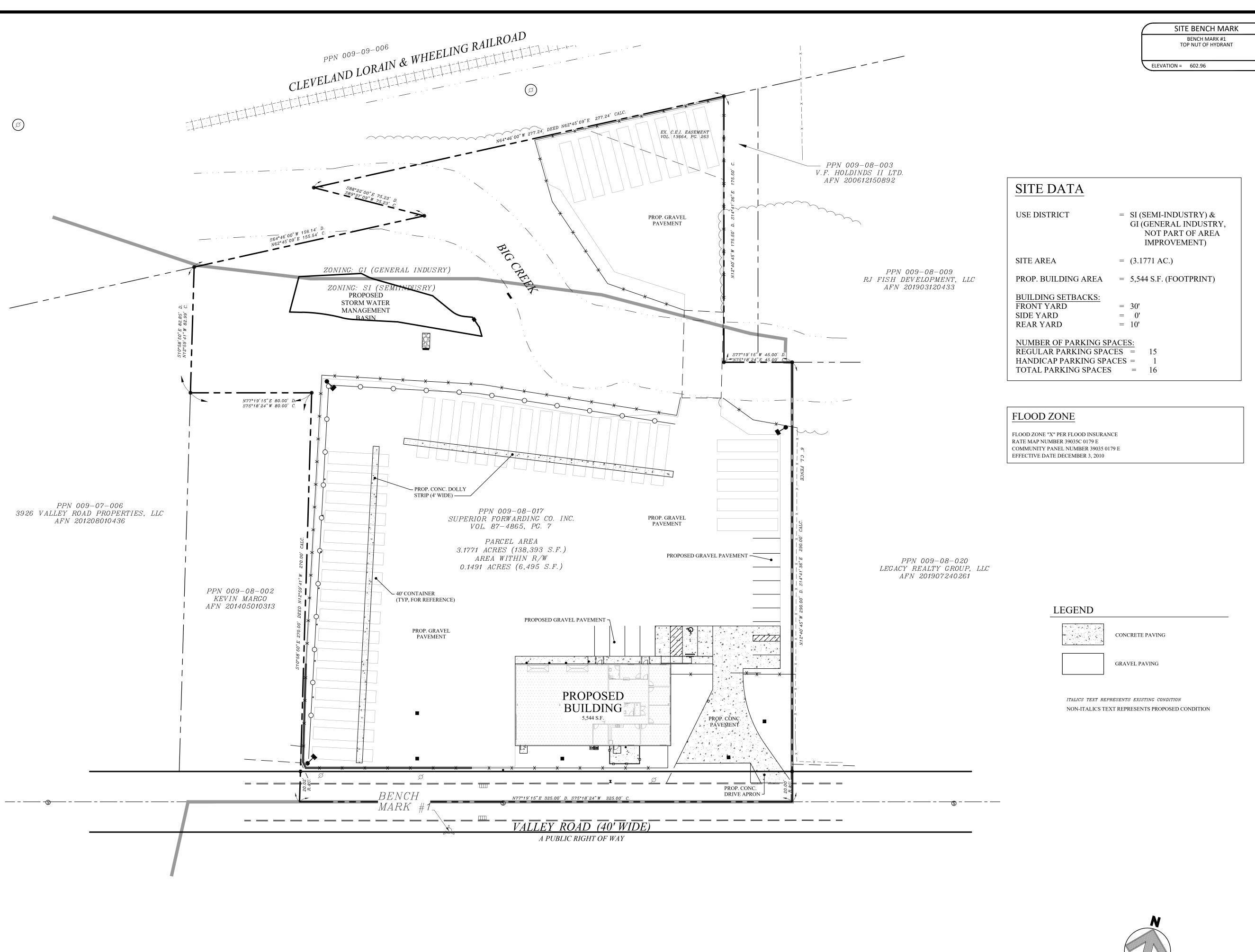
EXISTING CONDITIONS

PB E) SITE 3800

C100A
Project No. 2023-144







GRAPHIC SCALE

(IN FEET )
1 inch = 30 ft.

SERVICES
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CLIENT:



1220 WEST SIXTH STREET

CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

EXPRESS

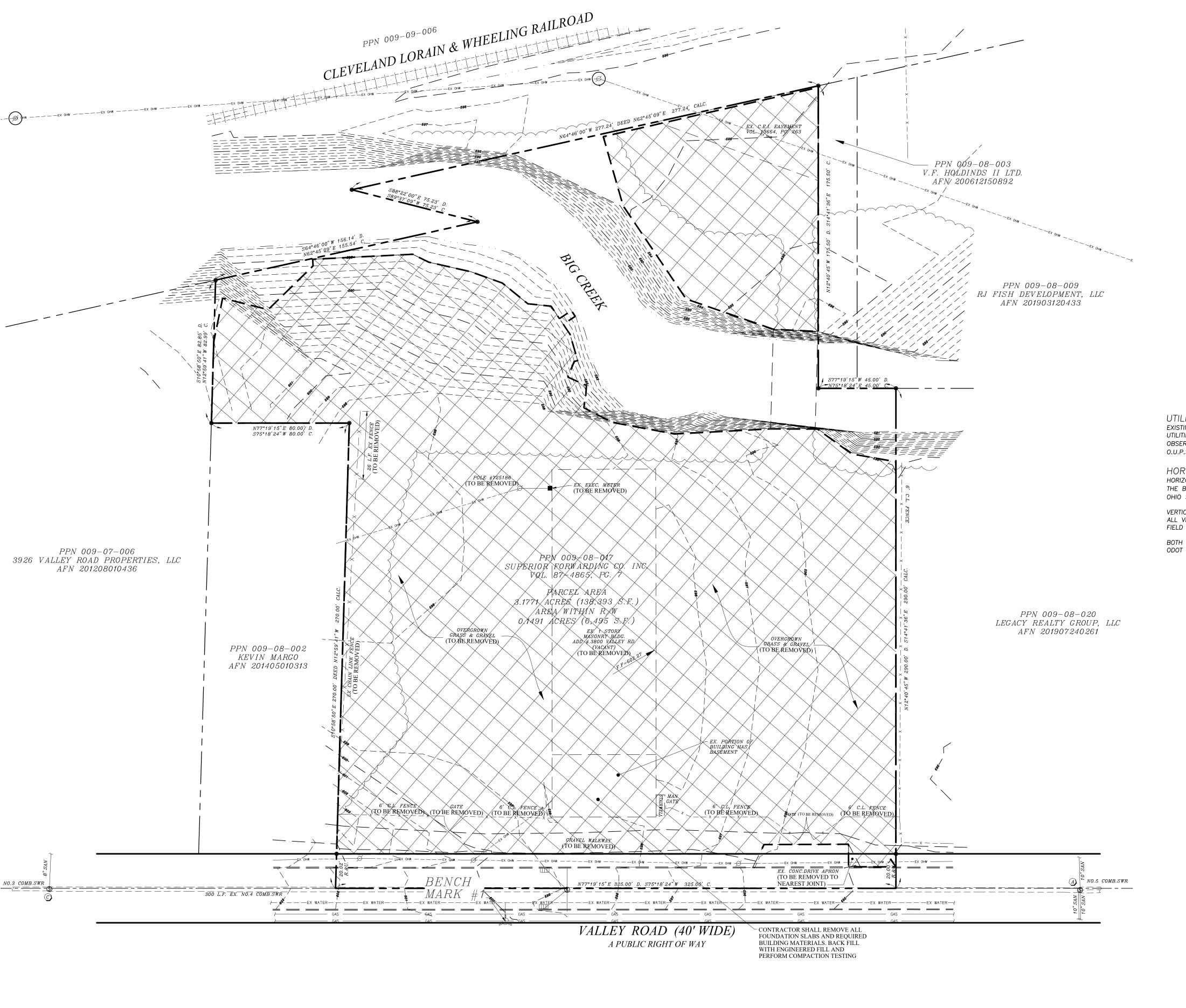
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Solution in the property of the property of

OVERALL SITE PLAN

PB E) SITE 3800

C100B
Project No. 2023-144



SITE BENCH MARK BENCH MARK #1 TOP NUT OF HYDRANT

ELEVATION = 602.96

EX. STORM <u>STRUCTURE</u> <u>SCHEDULE</u>

EX. STM INLET RIM: 599.01 INV:595.89(12"SE) TOP TRAP ASSY. TO BOTTOM:594.10 COVER MISSING

> 2) EX. STM INLET RIM: 598.81 INV:596.96(12" NE) TOP TRAP ASSY. TO BOTTOM:595.41 COVER MISSING

EX. COMBINED <u>STRUCTURE</u> <u>SCHEDULE</u>

INV: 580.49(NO.4W) INV: 579.54(NO.5E) INV:587.19(10"S) INV:582.75(10" S) INV:582.69(10" N)

B EX. COMB. MH RIM:598.94 INV:586.60(NO.4W) INV:586.47(NO.4) INV:593.82(12" ŚW) INV:590.44(8" N) INV:588.51(12"N) INV: 588.58(12" S)

© EX. COMB. MH RIM:609.51 INV:592.51(NO.4E&3W) INVERT RECESSED INV:599.15(8"N)

LEGEND

AREA OF DEMOLITION & CLEARING

ITALICS TEXT REPRESENTS EXISTING CONDITION NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION

UTILITY STATEMENT

EXISTING UTILITIES AS SHOWN ARE BASED UPON OBSERVABLE STRUCTURES. UTILITIES MAY EXIST IN THE SURVEY AREA THAT WERE EITHER NOT FOUND OR OBSERVABLE. PRIOR TO EXCAVATION AND/OR DEMOLITION CONTACT: O.U.P.S. (OHIO UTILITIES PROTECTION SERVICE).

HORIZONTAL AND VERTICAL DATUM HORIZONTAL BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THE PREMISES SURVEYED IS NAD83 (CORS96) OHIO STATE PLANE COORDINATE SYSTEM, NORTH ZONE (3401).

VERTICAL DATUM: ALL VERTICAL BENCH MARK INFORMATION SHOWN PER G.P.S. VRS FIELD OBSERVATIONS DATED JULY 15, 2022.

BOTH DATUMS WERE ESTABLISHED USING GPS EQUIPMENT CONNECTED TO THE ODOT VRS RTK NETWORK.

Œ	CENTER LINE
P	PROPERTY LINE
Z	CONSOLIDATED LOTS
0	IRON PIN/PIPE FOUND
•	IRON PIN SET
M	MONUMENT BOX FOUND
	IRON NAIL SET
۵	EXISTING FIRE HYDRANT
ш	EXISTING GUTTER INLET BASIN
S	EXISTING MANHOLE
$\phi$	EXISTING POWER POLE
0	EXISTING GUY ANCHOR
ø	EXISTING LIGHT POLE



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PB EXPRESS INC

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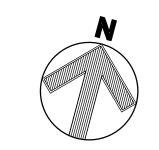
EXPRESS E IMPROVEMENTS D VALLEY ROAD, CLE PB E) SITE 3800

DEMOLITION PLAN

Project No. 2023-144

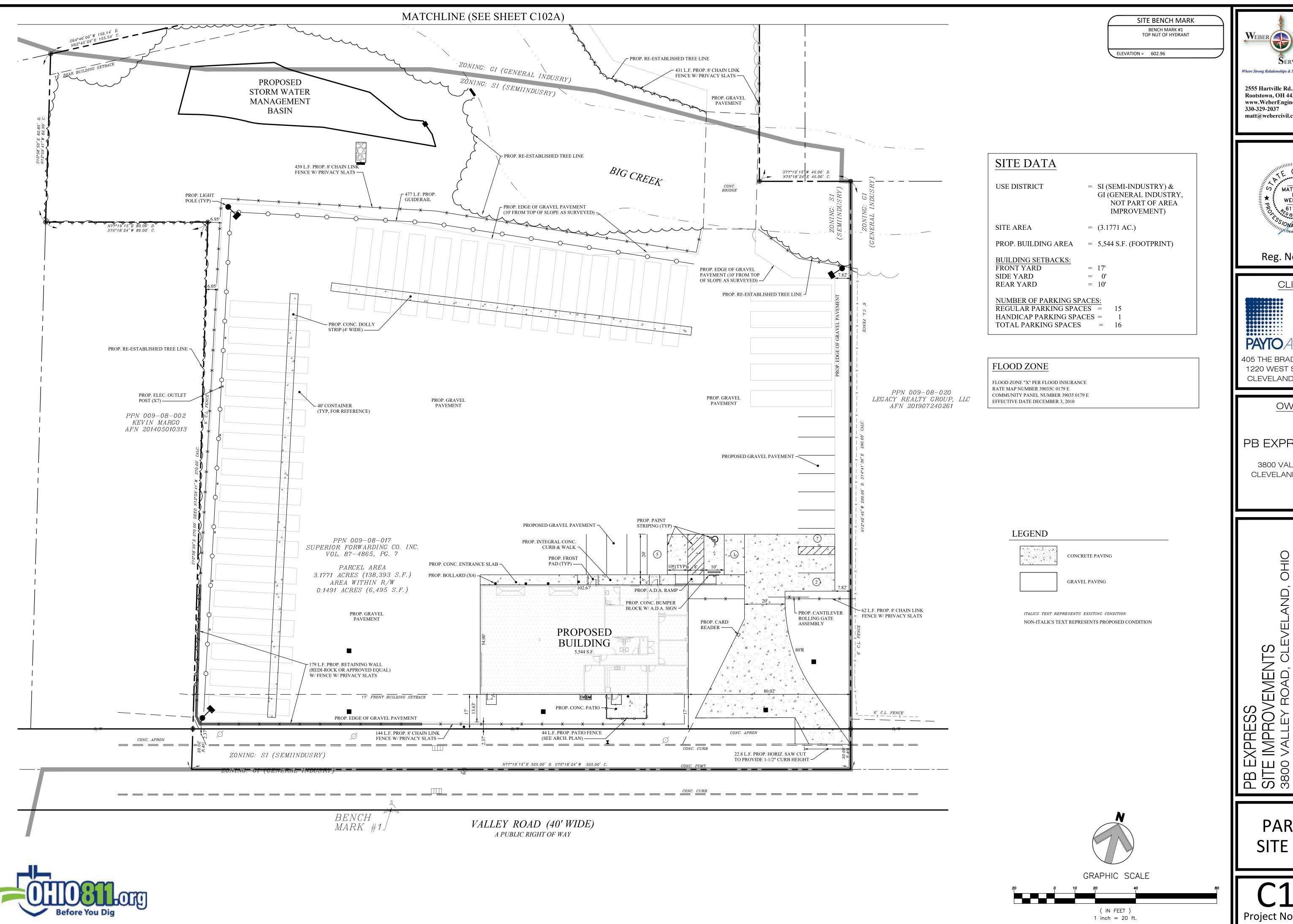


**Before You Dig** 



GRAPHIC SCALE

( IN FEET ) 1 inch = 30 ft.



Weber Engineering

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Issue Date 06-28-2023 07-18-2023 EXPRESS
E IMPROVEMENTS
OUT VALLEY ROAD, CLE

> **PARTIAL** SITE PLAN

Project No. 2023-144

CLEVELAND LORAIN & WHEELING RAILROAD EX. C.E.I. EASEMENT VOL. 13664, PG. 263 LEGEND GRAVEL PAVING —— PPN 009-08-003 V.F. HOLDINDS II LTD. AFN 200612150892 ITALICS TEXT REPRESENTS EXISTING CONDITION NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION PROP. RE-ESTABLISHED TREE LINE — └ 40' CONTAINER PPN 009-08-017 SUPERIOR FORWARDING CO. INC. VOL. 87-4885, PG. 7 (TYP, FOR REFERENCE) BIG CREEK *PARCEL AREA* PROP. GRAVEL 3.1771 ACRES (138,39% S.F.) **PAVEMENT** AREA WITHIN R/W 0.1491 ACRES (6,495 S.F.) S64°46'00" W 156.14' D...

S64°46'00" W 155.54' C.

N62°45'09" E 155.54' C. — 431 L.F. PROP. 8' CHAIN LINK FENCE W/ PRIVACY SLATS — MATCHLINE (SEE SHEET C102)

SITE BENCH MARK BENCH MARK #1 TOP NUT OF HYDRANT

ELEVATION = 602.96



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OWNER:

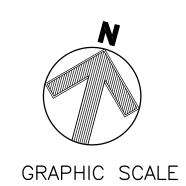
PB EXPRESS INC

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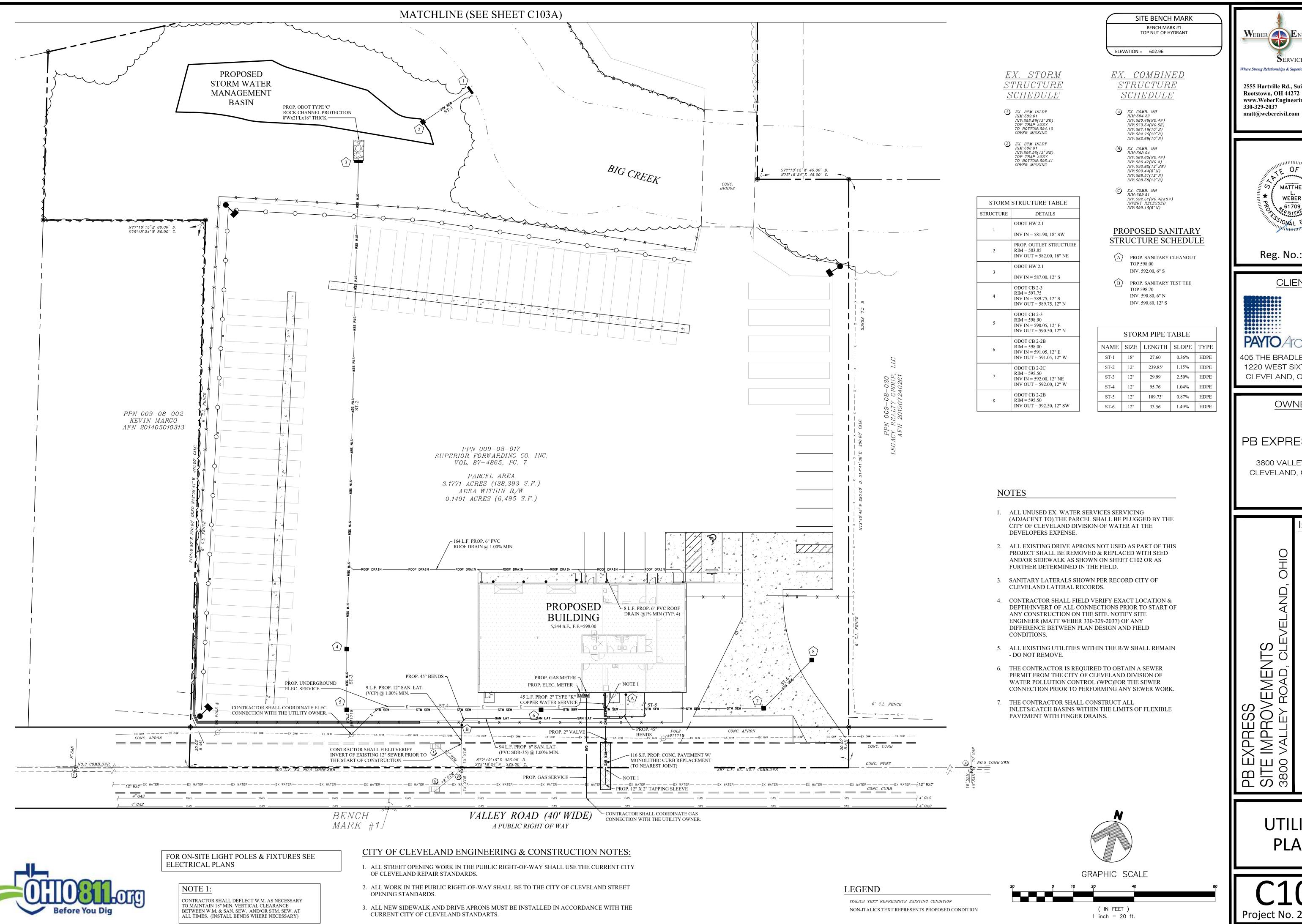
Issue Date 06-28-2023 07-18-2023 PB EXPRESS
SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEV

> PARTIAL SITE PLAN

Project No. 2023-144



( IN FEET ) 1 inch = 20 ft.



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OWNER:

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> Issue Date 06-28-2023 07-18-2023

EXPRESS

IMPROVEMENTS

VALLEY ROAD, CL

UTILITY PLAN

CLEVELAND LORAN & WHEELING RAILROAD

CLEVELAND LORAN & WHEELING RAILROAD

STORY OF THE STORY OF

SITE BENCH MARK

BENCH MARK #1
TOP NUT OF HYDRANT

ELEVATION = 602.96



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Reg. No.: 61709

CLIENT:



405 THE BRADLEY BUILDING 1220 WEST SIXTH STREET CLEVELAND, OHIO 44113

<u>OWNER:</u>

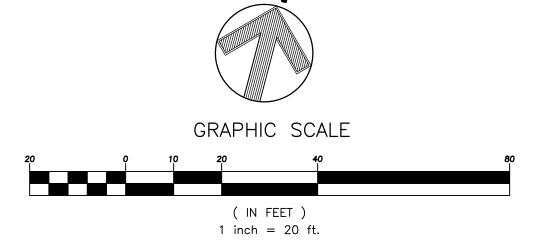
PB EXPRESS INC

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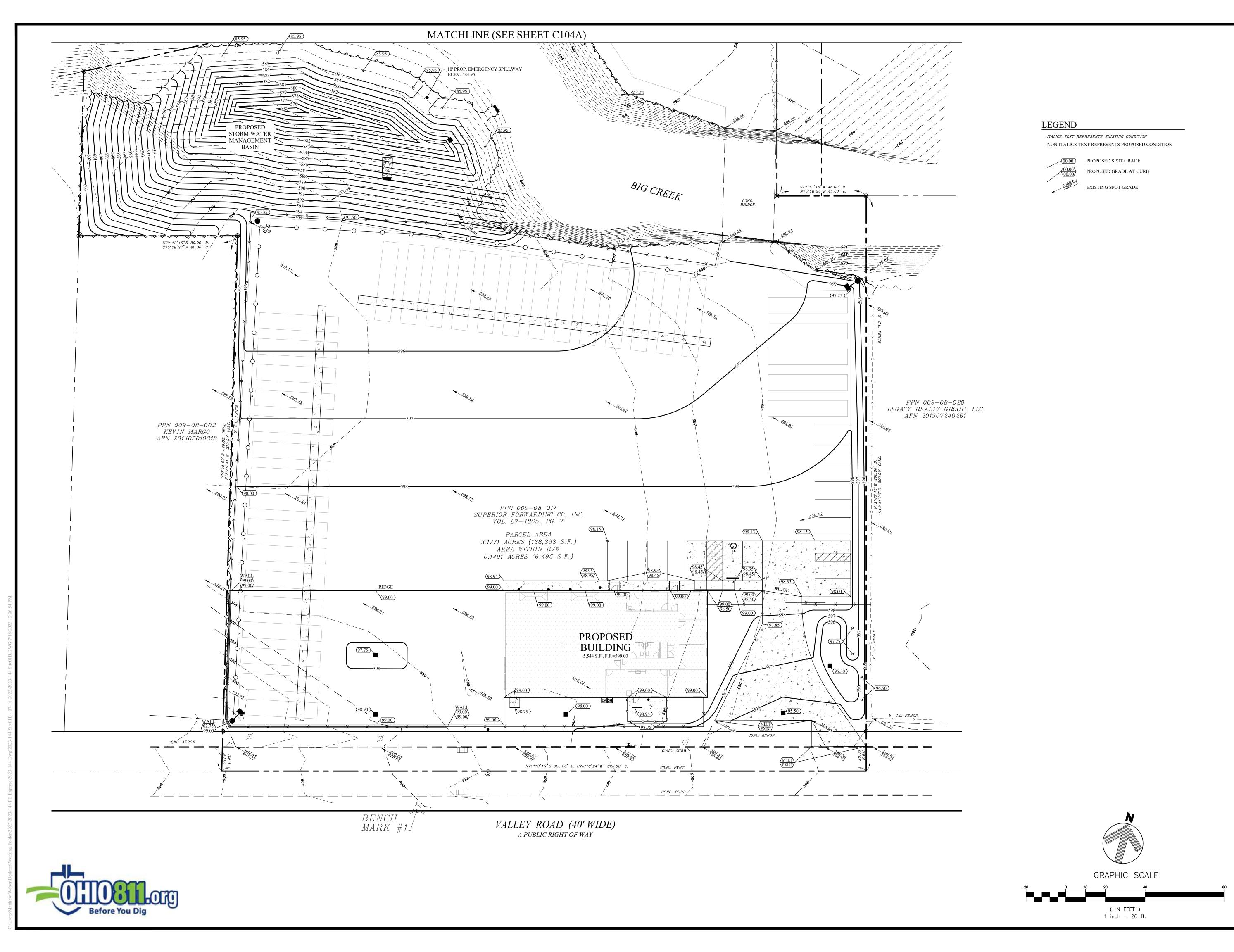
PB EXPRESS
SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEV

PARTIAL UTILITY PLAN

C103A
Project No. 2023-144









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OWNER:

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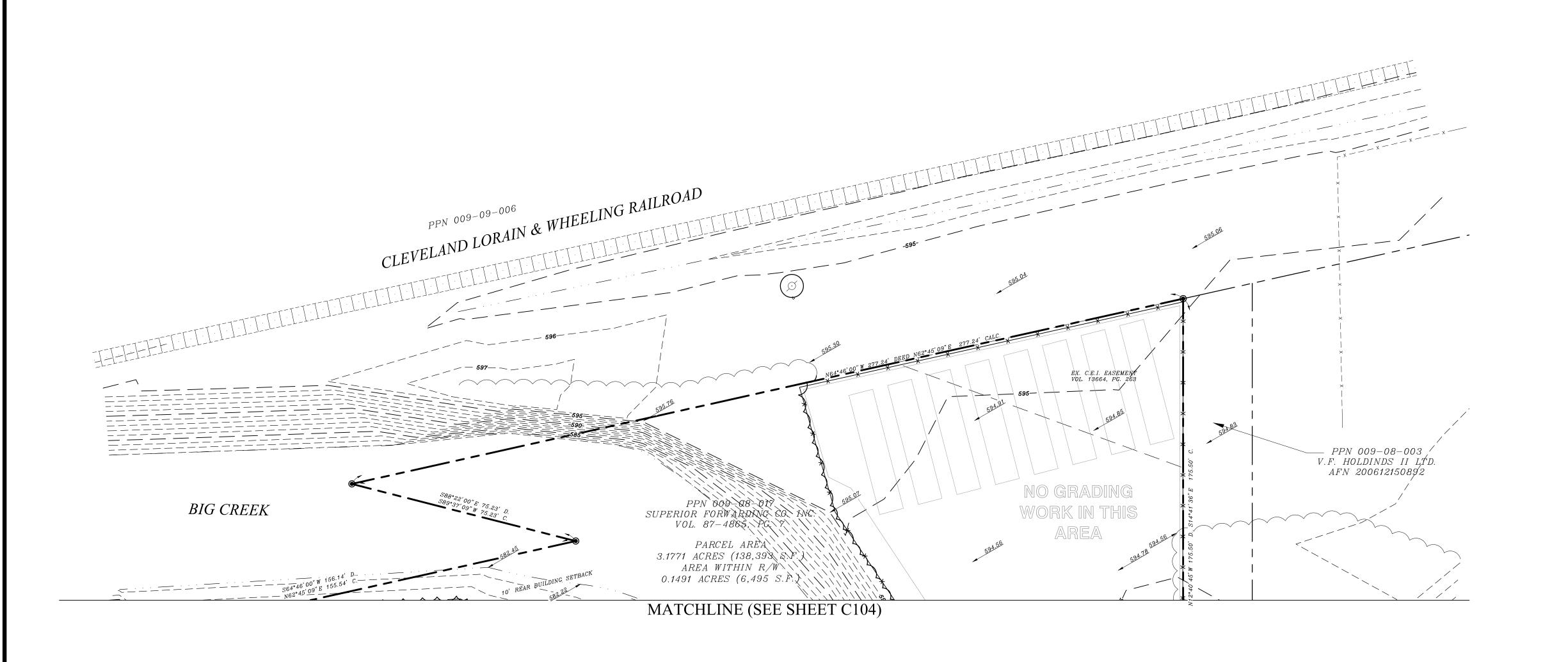
3800 VALLEY ROAD CLEVELAND, OH 44109

> 1ssue Date 06-28-2023 07-18-2023

PB EXPRESS
SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEVELAND, (

PARTIAL GRADING PLAN

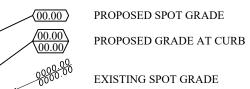
C104
Project No. 2023-144





ITALICS TEXT REPRESENTS EXISTING CONDITION

NON-ITALICS TEXT REPRESENTS PROPOSED CONDITION





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SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEV

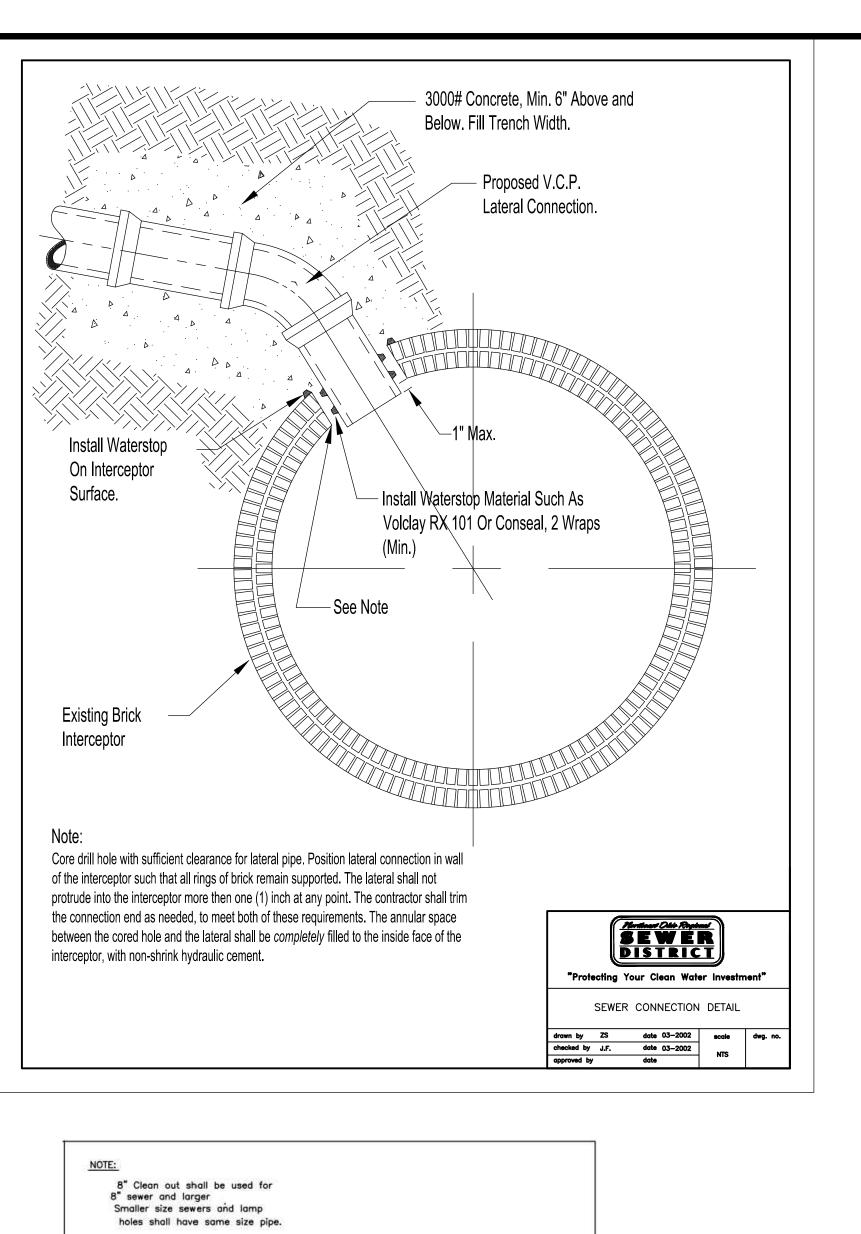
PARTIAL GRADING PLAN

C104A
Project No. 2023-144

GRAPHIC SCALE

( IN FEET ) 1 inch = 20 ft.





C.I.DISC or CAP with magnetic element

8" rigid pipe encased in 3000 PSI, concrete as shown .

in paved areas encased up to here.

In non paved areas use coarse interlocking aggregate to the bottom of concrete slab.

imbedded and mastic sealed

Last length cast iron cut to field measurement

3' - 0" Sq. Min. /3000 #Concrete/

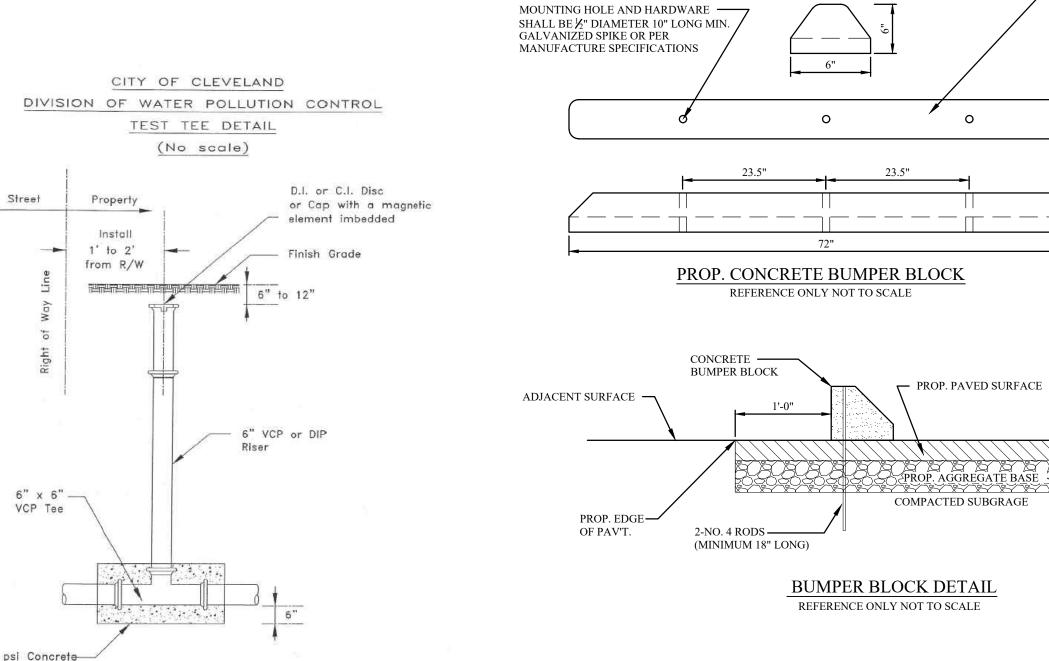
8" V.C. pipe 30 Deg. curve or \_\_\_

Vit. clay stopper sealed

ASTM 3212 joint

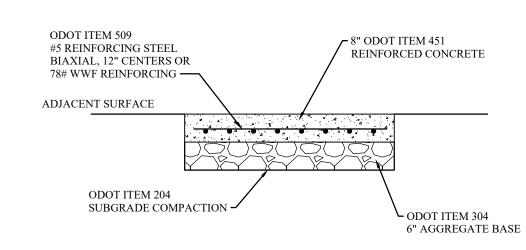
ASTM C - 24 or appropriate flexible pipe stopper sealed

8" Flexible 45 Deg. curve





CONCRETE PARKING BLOCK



INTEGRAL CONCRETE CURB & WALK DETAIL (ON-SITE)

REFERENCE ONLY NOT TO SCALE

GRAVEL PARKING AREA DETAIL

JOINT SEALER

ITEM 705.03

ODOT TYPE 6 CONCRETE CURB

REFERENCE ONLY NOT TO SCALE

REFERENCE ONLY NOT TO SCALE

1" TOOLED RADIUS —

PAVEMENT SURFACE —

CURB SHALL EXTEND

6" TO 8" BELOW THE

SURFACE BUT NOT

FINISHED PAVEMENT

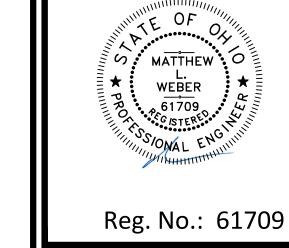
FINSH GRADE

ODOT ITEM 204

SUBGRADE COMPACTION -

6" REVEALED CURB

FROM FINISHED



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330-329-2037

- 4" AGGREGATE BASE

SUBGRADE COMPACTION

ODOT ITEM 608 4" THICK CONCRETE WALK

CONCRETE SIDEWALK

FINISHED PER THE

FINISH DETAIL

- 10" ODOT ITEM 304

AGGREGATE BASE

PAVEMENT

PAVEMENT

► PREFORMED JOINT MATERIAL,

SURFACE —

CLIENT: 1220 WEST SIXTH STREET

OWNER:

CLEVELAND, OHIO 44113

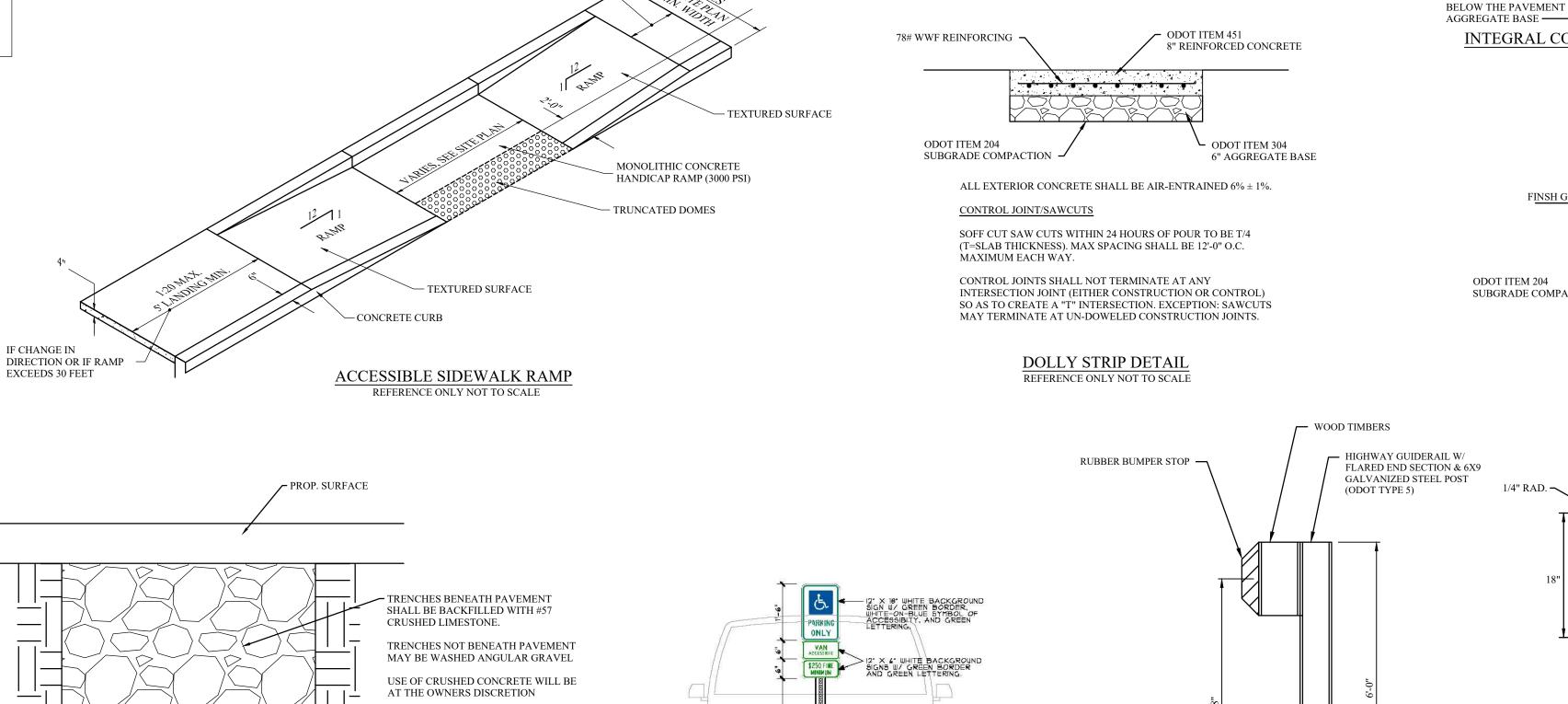
PB EXPRESS INC

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Issue Date 06-28-2023 07-18-2023 YEMENT( XPRESS IMPROVE VALI EY B ШШО

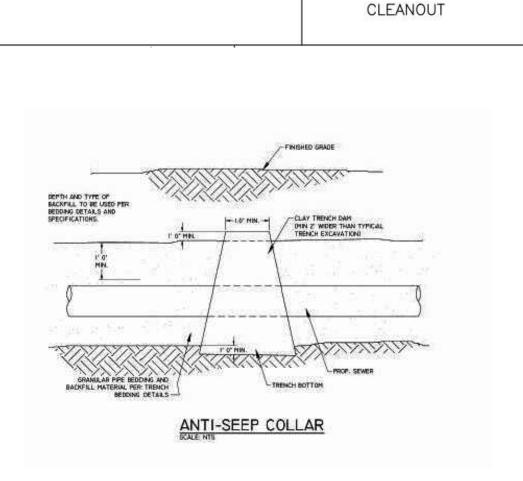
SITE

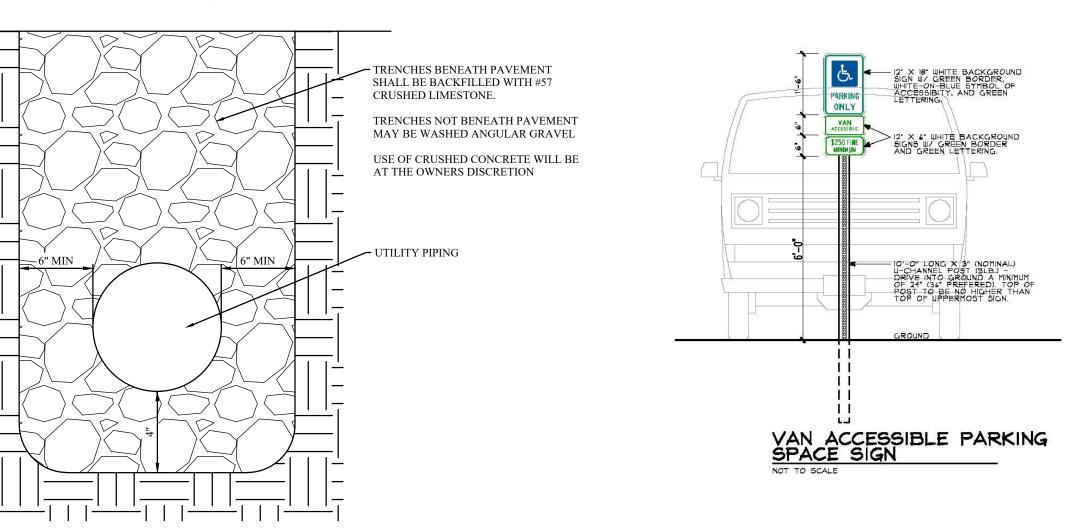
PB SIII 380



HANDICAPPED PARKING DETAIL

REFERENCE ONLY NOT TO SCALE



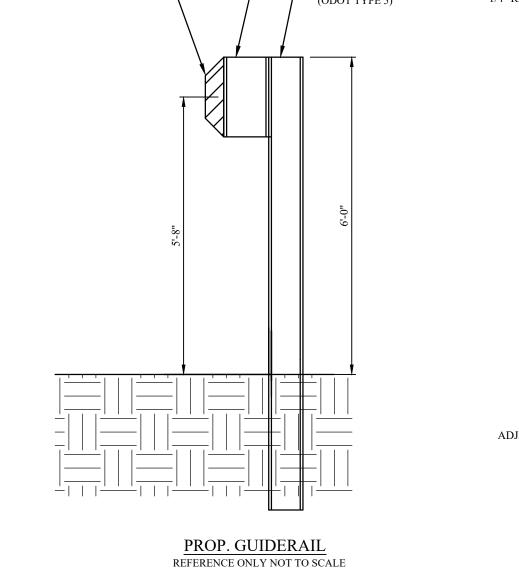


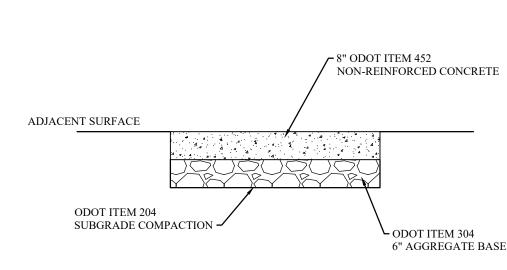
UTILITY TRENCH DETAIL

REFERENCE ONLY NOT TO SCALE

4" THICK CONCRETE

SIDEWALK SECTION 1:20





CONCRETE ENTRANCE SLAB DETAIL REFERENCE ONLY NOT TO SCALE

CLEVELAND DIVISION OF WATER NOTES FOR NEW PVC WATER MAIN INSTALLATION

- 1. ALL WATER WORK REQUIRED, WHETHER SHOWN ON THE PLANS OR AS DIRECTED BY THE CLEVELAND DIVISION OF WATER, SHALL BE AT THE EXPENSE OF THE PROJECT.
- 2. THE INFORMATION SHOWN ON THE CLEVELAND DIVISION OF WATER'S SUMMARY OF WORK/CHARGE LETTER AND STRIP MAPS ARE TAKEN FROM EXISTING AVAILABLE RECORDS, AND THEIR ACCURACY IS NOT GUARANTEED.
- 3. CALL THE INSPECTION AND ENFORCEMENT UNIT AT 216-664-2342 TO SCHEDULE A PRECONSTRUCTION MEETING. THE OPERATION OF ANY VALVE OR ALTERATION OF ANY PART OF THE WATER SYSTEM BY CONTRACTORS OR THEIR EMPLOYEES IS PROHIBITED WITHOUT THE SUPERVISION OF THE CLEVELAND DIVISION OF WATER INSPECTOR.
- 4. THE MUNICIPALITY SHALL REQUIRE THAT THE PROJECT'S PROFESSIONAL ENGINEER OBTAIN ACTUAL FIELD MEASUREMENTS OF THE MAIN DURING INSTALLATION AND SHALL FURNISH THE CWD INSPECTOR WITH RECORD PRINTS IN A FORM ACCEPTABLE TO THE DIVISION OF WATER. THE CLEVELAND DIVISION OF WATER WILL REQUIRE THE DELIVERY AND ACCEPTANCE OF TWO COPIES OF RECORD (AS BUILT) PRINTS BEFORE THE PRESSURE TEST AND CHLORINATION OF THE MAIN.
- 5. FOR THE PURPOSES OF CHLORINATION AND BACTERIOLOGICAL TESTING OF THE WATER MAINS THE CONTRACTOR SHALL PROVIDE AND INSTALL, AT EACH OF THE CHLORINATION PIT LOCATIONS SHOWN AND AT OTHER LOCATIONS DETERMINED BY THE DIVISION OF WATER, FLUSHING/SAMPLING TAPS OF SIZES TO BE DETERMINED BY THE DIVISION OF WATER. CHLORINATION PITS SHALL BE SIX (6) FOOT SQUARE MEETING OSHA STANDARDS.
- 6. A TWO YEAR WARRANTY, COMMENCING FROM THE DATE OF ACCEPTANCE OF THE FINAL CHLORINATION OF THE WATER MAIN INSTALLATION, SHALL BE PROVIDED BY THE BUILDER/DEVELOPER AND/OR CONTRACTOR FOR ALL WATER MAINS AND SERVICE CONNECTION WORK PERFORMED BY THE CONTRACTOR, INCLUDING RETAPS, SHOULD ANY LEAKS OCCUR AND REPAIRS BE REQUIRED DUE TO DEFECTIVE MATERIAL OR POOR WORKMANSHIP.
- 7. USE BACKFILL MATERIAL AS SPECIFIED AND COMPACT SUFFICIENTLY IN THOSE AREAS WHERE EXISTING MAINS AND WATER SERVICE CONNECTIONS ARE EXPOSED.
  (SEE DIVISION OF WATER STANDARD DETAIL PVC-001).
- 8. ALL MATERIALS, INCLUDING BUT NOT LIMITED TO WATER MAINS, FIRE HYDRANTS, VALVES,
  CONNECTION MATERIALS AND OTHER WATER APPURTENANCES, SHALL BE NEW AND UNUSED AND
  SHALL CONFORM TO THE MOST CURRENT DIVISION OF WATER SPECIFICATIONS, ALL MATERIAL
  SHALL BE INSTALLED IN ACCORDANCE WITH DIVISION OF WATER'S STANDARDS.

  WIRE TAPED TO THE TOP OF THE PIPE EVERY 5 FEET. BRING TRACE WIRE TO THE SURFACE AT
  EVERY VALVE BOX, OR HYDRANT (SEE DETAILS). ALL SPLICES OR CONNECTIONS TO THE WIRE
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WATER MAINS AND APPURTENANCES THEREOF WHEN CONNECTING THE NEW WATER MAIN FOR THE HYDROSTATIC TEST. ALL REPAIRS TO DAMAGED EXISTING FACILITIES SHALL BE MADE BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE DIVISION OF WATER. (REFER TO THE THE ALTERNATE TEST DETAIL PVC-002 AS NEEDED).
- 10. ALL HYDROSTATIC PRESSURE TESTING SHALL BE DONE BY THE CONTRACTOR IN THE PRESENCE OF THE DIVISION OF WATER'S INSPECTOR, THE HYDROSTATIC TEST PRESSURE SHALL BE 75 PSI ABOVE THE STATIC PRESSURE PREVAILING AT THE SITE, BUT IN NO CASE LESS THAN 150 PSI, THE PRESSURE TEST SHALL BE FOR A DURATION OF TWO (2) HOURS WITH THE PRESSURE BEING MAINTAINED WITHIN 5 PSI OF THE REQUIRED TEST PRESSURE, SHOULD THE PRESSURE TEST FAIL THE CONTRACTOR SHALL FIND AND CORRECT THE DEFICIENCY(IES) TO THE SATISFACTION OF THE DIVISION OF WATER AND REPEAT THE TWO (2) HOUR PRESSURE TEST.

WATER MAINS

- 11A. ALL PIPE, UNLESS OTHERWISE CALLED FOR, SHALL BE POLYVINYL CHLORIDE (PVC)
  PRESSURE PIPE IN ACCORDANCE AWWA C-900-97 CLASS 200 OR C-909-98 200 PSI OR BETTER.
  JOINTS SHALL BE MADE UTILIZING A STAB TYPE, RUBBER GASKETED BELL & SPIGOT, SOLVENT
  CEMENT TYPE JOINTS WILL NOT BE PERMITTED. STANDARD PLASTIC TRACER TAPE IS TO BE
  BURIED 4'-0' AND LOCATED DIRECTLY ABOVE THE WATERMAIN.
- 11B. ALL FITTINGS, UNLESS OTHERWISE CALLED FOR, SHALL BE APPROVED DUCTILE IRON, CLASS 350, CEMENT LINED OR FUSION BONDED EPOXY COATED. ALL FITTINGS AND PIPE CONNECTED TO FITTINGS SHALL BE RESTRAINED USING A 'RETAINED' MECHANICAL JOINT CONFORMING TO THE MATERIAL AND PERFORMANCE REQUIREMENTS OF ANSI/AWWA C-110/A21.10 AND ANSI/AWWA C-111/A21.11, OR 'COMPACT' FITTINGS IN ACCORDANCE WITH ANSI/AWWA C-153/A21.53, EXCEPT FOR ANCHOR TEES, REDUCERS OR OTHER SPECIAL CIRCUMSTANCES WHEN DIRECTED BY CLEVELAND DIVISION OF WATER, ALL FITTINGS ARE TO HAVE BELL ENDS.
- 11C. ALL BOLTS AND NUTS ON ALL "RETAINED" MECHANICAL JOINTS SHALL HAVE FIELD APPLIED ONE (1) COAT OF BITUMASTIC PAINTING FOLLOWED BY AN ENCASEMENT OF POLYETHYLENE WRAPPING IN ACCORDANCE WITH ANSI/AWWA C-105/A21.5-88, CLASS "C", METHOD "B".
- 11D. WHERE SHOWN ON THE PLANS, OR WHEN OTHERWISE CALLED FOR, DUCTILE IRON PIPE AND FITTINGS SHALL HAVE AN APPROVED 'TYPE I' OR 'TYPE II' BOLTLESS RESTRAINED PUSH-ON JOINTS TO THE LIMITS SHOWN ON THE DRAWINGS, WHERE NOTED (AVWA C-900 RJ) PVC BOLTLESS RESTRAINED PIPE MAY USED.
- 11E. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL PLUG ALL OPEN PIPE ENDS WITH WATER TIGHT PLUGS AS PER THE 'PREVENTITIVE AND CORRECTIVE MEASURES DURING CONSTRUCTION' SECTION OF THE MOST CURRENT REVISION OF AWWA C-651 AS TO PREVENT THE INFILTRATION OR INTRUSION OF ANY FOREIGN OBJECTS OR MATERIALS. DATE STAMPED DIGITAL PHOTOS SHALL BE PROVIDED FOR EACH WORKDAY DEMONSTRATING THAT PROPER AWWA C-651 METHODS WERE USED TO PLUG ALL OPEN WATER MAIN ENDS. EACH PHOTO SHALL CLEARLY IDENTIFY THE STATION AT WHICH THE PIPE IS PLUGGED. THE STATIONING SHALL BE SHOWN BY THE USE OF A STATION MARKER PLACED AT THE PLUGGED PIPE END.

PHOTOS SHALL BE SUBMITTED ON A DAILY BASIS UNLESS OTHERWISE DEFINED BY THE CWD INSPECTOR OR ENGINEER, ALL PHOTOS TAKEN OVER THE COURSE OF THE PROJECT SHALL BE SUBMITTED BY THE CONTRACTOR AS PART OF THE AS-BUILT SUBMITTAL, AS-BUILTS SHALL BE CONSIDERED INCOMPLETE WITHOUT SAID COLLECTION OF DIGITAL PHOTOS.

LIF. ALL PVC PIPE SHALL BE INSTALLED WITH A CONTINUOUS RUN OF INSULATED #12 GAUGE COPPER WIRE TAPED TO THE TOP OF THE PIPE EVERY 5 FEET. BRING TRACE WIRE TO THE SURFACE AT EVERY VALVE BOX, OR HYDRANT (SEE DETAILS). ALL SPLICES OR CONNECTIONS TO THE WIRE ARE TO BE MADE USING APPROVED DIRECT BURY LUGS OR NUTS. SHOULD THE TYPE OF PIPE CHANGE TO DUCTILE IRON PIP, THEN TRACE WIRE SHOULD BE TERMINATED AT THE FIRST VALVE BOX OR HYDRANT AFTER THE TRANSITION IS MADE.

HYDRANTS:

- 12A, IN ALL HYDRANT INSTALLATIONS THE CONTRACTOR SHALL FACE ALL HYDRANT'S 4" (STEAMER) NOZZLE TOWARD THE PAVEMENT PRIOR TO TESTING AND CHLORINATION OF WATER MAINS. CONTRACTOR SHALL CONSULT WITH THE LOCAL MUNICIPALITY'S ENGINEERING OR SERVICE DEPARTMENT TO OBTAIN HYDRANT MODEL AND NOZZLE THREAD REQUIREMENTS IF NOT INDICATED ON THE APPROVED PLANS.
- 12B, HYDRANT ASSEMBLIES SHALL BE CONSTRUCTED OF DUCTILE IRON (CL. 52) CEMENT LINED PIPE.

1/ALVES

- 13. ALL VALVES SHALL BE AN APPROVED MODEL RESILIENT SEATED GATE VALVES AS PER THE MOST CURRENT VERSION OF AWWA C509 OR C515.
- 14. WATER CONNECTIONS SHOWN ON THESE DRAWINGS ARE FOR REFERENCE ONLY AND ARE NOT PART OF THE WATER MAIN APPROVAL. ADDITIONAL PERMITS FOR SERVICE CONNECTIONS MUST BE OBTAINED FROM THE DIVISION OF WATER PRIOR TO INSTALLATION OF ANY PORTION OF THE SERVICE CONECTION(S). IT IS THE CONTRACTORS RESPONSIBILITY TO ARRANGE FOR PERMITS FOR ALL SIZE WATER SERVICE CONNECTIONS BEFORE PERFORMING ANY WORK. THE AMOUNT OF THE CHARGES CAN BE OBTAINED FROM THE DIVISION OF WATER, PERMITS AND SALES SECTION AT 216-664-2444 X5203.
- 15. ONE INCH SERVICE CONNECTIONS SHALL BE PERMITTED TO SERVICE HOMES BASED ON THE FOLLOWING CRITERIA:
- \* PEAK FLOW DEMANDS DO NOT EXCEED 25 GPM FOR AN INDIVIDUAL HOME/UNIT. INCLUSIVE OF ALL USAGE (FIRE, DOMESTIC AND/OR IRRIGATION) AND
- \* LENGTH OF ONE INCH CONNECTION DOES NOT EXCEED 50 FEET AS MEASURED FROM THE MAIN TO THE CURR VALVE.
- ANY SERVICE REQUESTS DIFFERING FROM THE STATED CRITERIA SHALL REQUIRE THE SUBMITTAL OF A COMPLETE WATER SERVICE APPLICATION, PEAK DEMANDS ARE TO BE ASSESSED ON APPLICATION AND SETBACKS ARE TO SHOWN ON AN ACCOMPANYING SITE PLAN. SITE PLANS SHALL SHOW WATER METER VAULTS IN THE RIGHT OF WAY OR IN AN EASEMENT CONTIGUOUS TO THE RIGHT OF WAY FOR ANY HOMES/UNITS WITH SETBACKS GREATER THAN 150 FEET. EASEMENTS ARE TO BE PROVIDED WITH THE SERVICE CONNECTION APPLICATION SUBMITTAL.
- 16. ALL WATER MAIN CURB VALVE BOXES & METER VAULTS WILL BE INSTALLED IN GRASS AREAS WHEN POSSIBLE.
- 17. SERVICE SADDLES SHALL BE USED FOR ALL SERVICE CONNECTIONS. THE DUTLET SHALL BE TAPPED WITH EITHER A.W.W.A. TAPER (C.C.) OR A.W.W.A. F.I.P.T. THREADS. SADDLES SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL APPLICABLE PARTS OF ANSI/AWWA CBOO-NSF 61 CERTIFIED, AND BE APPROVED BY THE DIVISION OF WATER.

**EMERGENCIES** 

18. IF A WATER MAIN OR SERVICE CONNECTION BREAK OCCURS DURING CONSTRUCTION AND EMERGENCY ASSISTANCE IS REQUIRED, PLEASE NOTIFY THE DIVISION OF WATER AT 216-664-3060.

PVC-011B

-011B DATE: 2-4-2009 BY: RSK

PVC-011A

DATE: 12-17-2009 BY: RSK

PVC WATER MAIN

| PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC WATER MAIN | PVC W

NOTE:

- 1) WATER MAIN SHALL BE DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PUSH-ON JOINT PIPE WITH RETAINED MECHANICAL JOINT DUCTILE IRON CLASS 350, CEMENT LINED RETAINED MECHANICAL JOINT FITTINGS.
- 2) WHERE DEPTH OF LOWERING REQUIRES AN INTERMEDIATE JOINT BETWEEN STATIONS "A" & "B' AND/OR "C" & "D" THE ENTIRE LOWERING SHALL BE MADE WITH DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PIPE AND DUCTILE IRON CLASS 350, CEMENT LINED FITTINGS ALL HAVING BOLTLESS RESTRAINED PUSH-ON JOINTS, TYPE I OR CERTA-LOKTMRESTRAINED JOINT SYSTEM BY CERTAINTEED.
- 3) WHERE LENGTH OF LOWERING UNDER OBSTRUCTION(S) REQUIRES AN INTERMEDIATE JOINT ONLY BETWEEN STATIONS "B" & "C", AND PIPE JOINTS ARE AS INDICATED IN NOTE "1" ABOVE, THAT INTERMEDIATE JOINT(S) SHALL BE MADE WITH A BOLTLESS RESTRAINED PUSH-ON JOINT, TYPE II OR CERTA-LOK<sup>TM</sup> RESTRAINED JOINT SYSTEM BY CERTAINTEED.
- 4) WHERE LENGTH OF LOWERING UNDER OBSTRUCTION(S) REQUIRES AN INTERMEDIATE JOINT ONLY BETWEEN "B" AND "C" AND PIPE JOINTS ARE AS INDICATED IN NOTE "2" ABOVE, THAT INTERMEDIATE JOINT(S) SHALL BE MADE WITH A BOLTLESS RESTRAINED PUSH-ON JOINT, TYPE I CERTA-LOKTM RESTRAINED JOINT SYSTEM BY CERTAINTEED.

DETAIL FOR WATER MAIN LOWERING UNDER OBSTRUCTIONS
LESS THAN 24" IN DIAMETER OR WIDTH FOR "NEW CONSTRUCTION"

PVC-L04 - NOT TO SCALE - DATE: 11-1-09 BY: DR

(1) FULL LENGTH DUCTILE IRON OR C900/909 PIPE DUT OF
BEND.

(NO JOINTS WITHIN 18'-0' OF TOP JOINT.)

PVC WATER MAIN

18'-0"

2'-0"

2'-0"

18'-0"

ARGER

NOILLE IRON OR C900/909 PIPE DUT OF
BEND.

(NO JOINTS WITHIN 18'-0' OF TOP JOINT.)

PVC WATER MAIN

18'-0"

18'-0"

18'-0"

STEEL OR SPIGOT END

LIMITS OF WATER MAIN LOWERING

NOTE

- 1) WATER MAIN SHALL BE DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PUSH-ON JOINT PIPE WITH RETAINED MECHANICAL JOINT DUCTILE IRON CLASS 350, CEMENT LINED RETAINED MECHANICAL JOINT FITTINGS.
- 2) WHERE DEPTH OF LOWERING REQUIRES AN INTERMEDIATE JOINT BETWEEN STATIONS "A" & "B" AND/OR "C" & "D" THE ENTIRE LOWERING SHALL BE MADE WITH DUCTILE IRON, MINIMUM CLASS 52, CEMENT LINED PIPE AND DUCTILE IRON CLASS 350, CEMENT LINED FITTINGS ALL\_HAVING BOLTLESS RESTRAINED PUSH-ON JOINTS, TYPE I OR CERTA-LOKTMRESTRAINED JOINT SYSTEM BY CERTAINTEED.
- 3) WHERE LENGTH OF LOWERING UNDER OBSTRUCTION(S) REQUIRES AN INTERMEDIATE JOINT ONLY BETWEEN STATIONS "B" & "C", AND PIPE JOINTS ARE

  AS INDICATED IN NOTE "1" ABOVE, THAT INTERMEDIATE JOINT(S) SHALL BE MADE WITH A BOLTLESS RESTRAINED PUSH-ON JOINT, TYPE II OR CERTA-LOKTH

  RESTRAINED JOINT SYSTEM BY CERTAINTEED.
- 4) WHERE LENGTH OF LOWERING UNDER OBSTRUCTION(S) REQUIRES AN INTERMEDIATE JOINT ONLY BETWEEN "B" AND "C" AND PIPE JOINTS ARE AS INDICATED IN NOTE "2" ABOVE, THAT INTERMEDIATE JOINT(S) SHALL BE MADE WITH A BOLTLESS RESTRAINED PUSH-ON JOINT, TYPE I CERTA-LOKTM RESTRAINED JOINT SYSTEM BY CERTAINTEED.

DETAIL FOR WATER MAIN LOWERING UNDER OBSTRUCTIONS
24" & LARGER IN DIAMETER OR WIDTH FOR "NEW CONSTRUCTION"

PVC-L05 DATE: 11-1-09 BY: DR

Weber Engineering Services

2555 Hartville Rd., Suite B Rootstown, OH 44272 www.WeberEngineeringServices.com 330-329-2037 matt@webercivil.com

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Reg. No.: 61709

**CLIENT:** 



405 THE BRADLEY BUILDING 1220 WEST SIXTH STREET CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC.

3800 VALLEY ROAD CLEVELAND, OH 44109

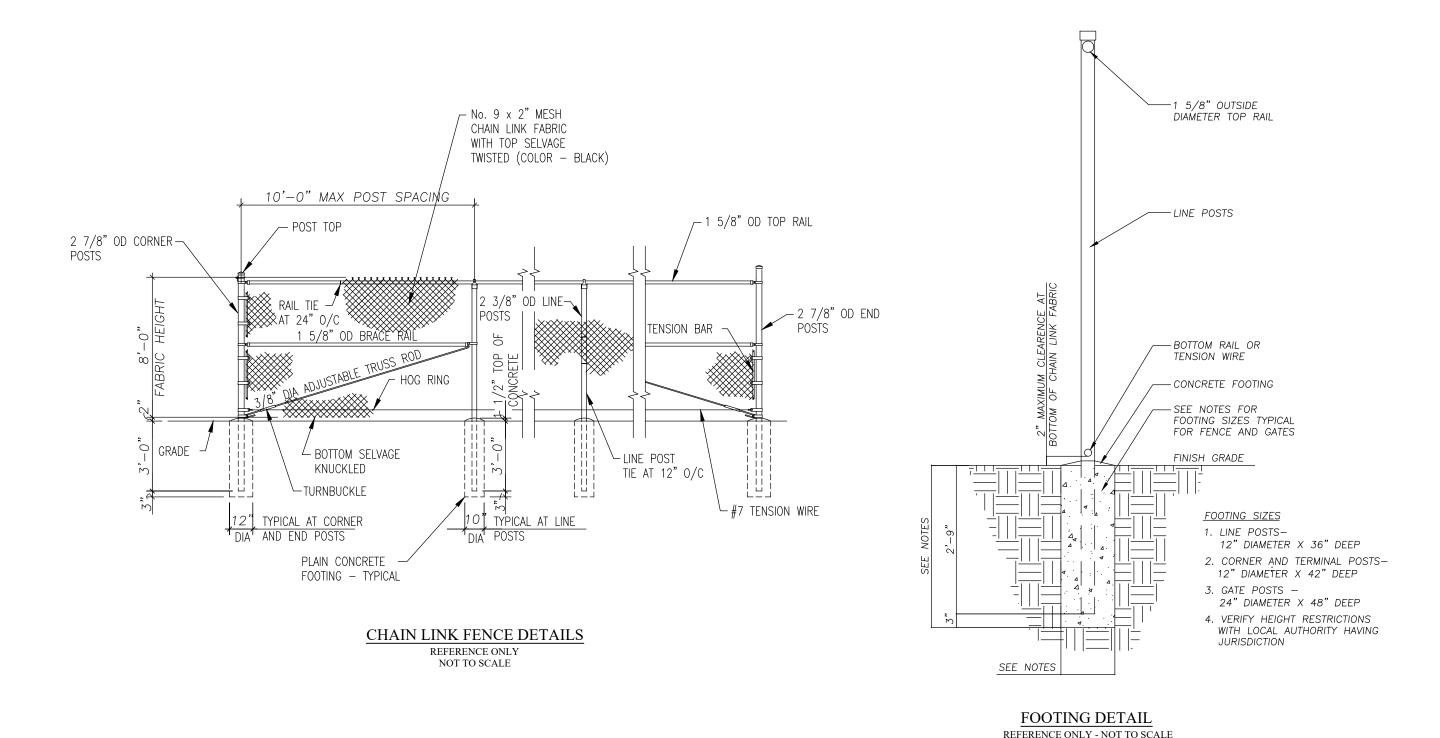
Issue Date
06-28-2023
07-18-2023

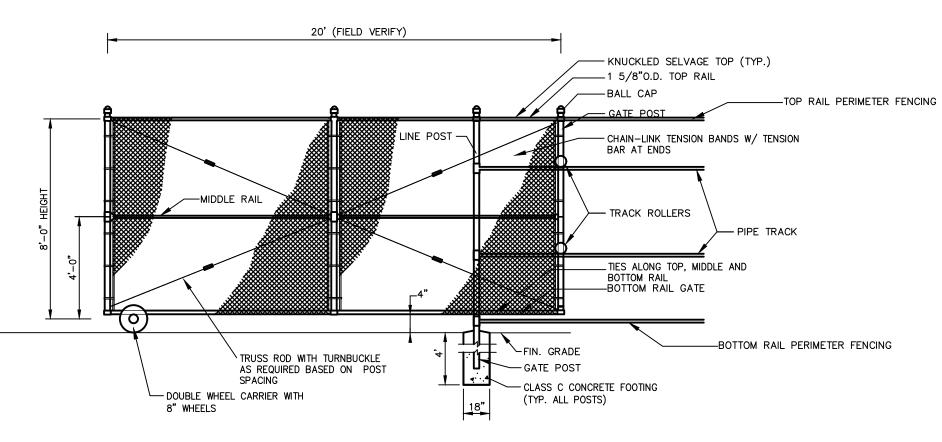
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> SITE DETAILS

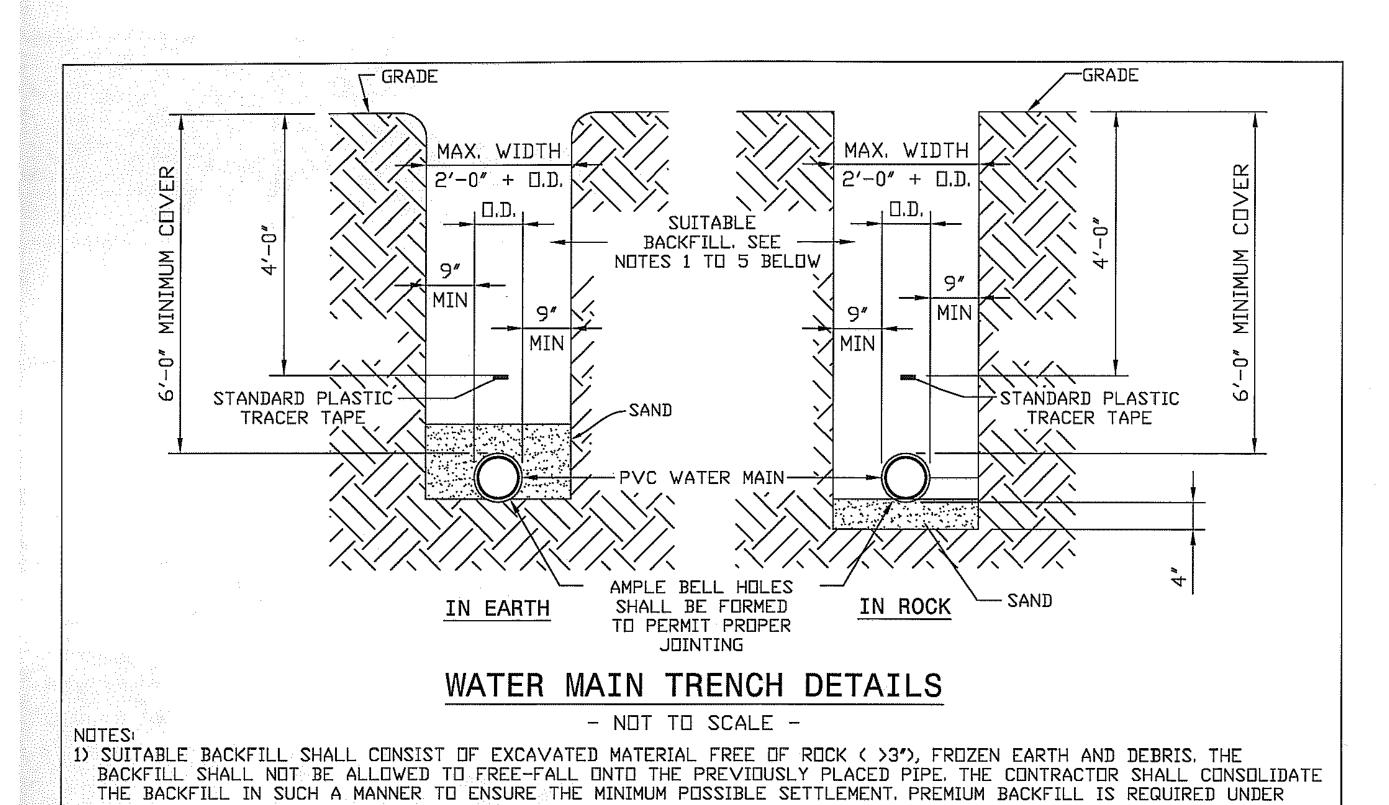
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C105A
Project No. 2023-144





VINYL CHAIN LINK FENCE ROLLING GATE DETAIL
REFERENCE ONLY NOT TO SCALE



EXISTING OR FUTURE PAVEMENTS, SIDEWALKS, AND/OR DRIVES OR WHEN REQUIRED BY THE LOCAL MUNICIPALITY. PREMIUM

2) PREMIUM BACKFILL SHALL BE LIMESTONE SCREENINGS GRADED PER ODOT 304.02 OR ODOT 411, NO SLAG IS PERMITTED.

5) PAVEMENT, SIDEWALK OR DRIVES TO BE INSTALLED IN ACCORDANCE WITH LOCAL MUNICIPALITY'S SPECIFICATIONS.

3) CONTRACTOR SHALL USE SPECIAL CARE IN PLACING THE BACKFILL SO AS TO AVOID INJURING THE PIPE,

BACKFILL SHALL BE FULL DEPTH OF THE TRENCH.

PVC-001

THIS ROLLING GATE DRAWING IS FOR REFERENCE

ONLY. ROLLING GATE SUPPLIER SHALL VERIFY CONDITIONS IN THE FIELD AND COORDINATE

APPLICABLE MODIFICATIONS WITH THE OWNERS REPRESENTATIVE AND PROVIDE SHOP DRAWINGS

NOTE:
ALL LOCKING DEVICES SHALL BE COORDINATED

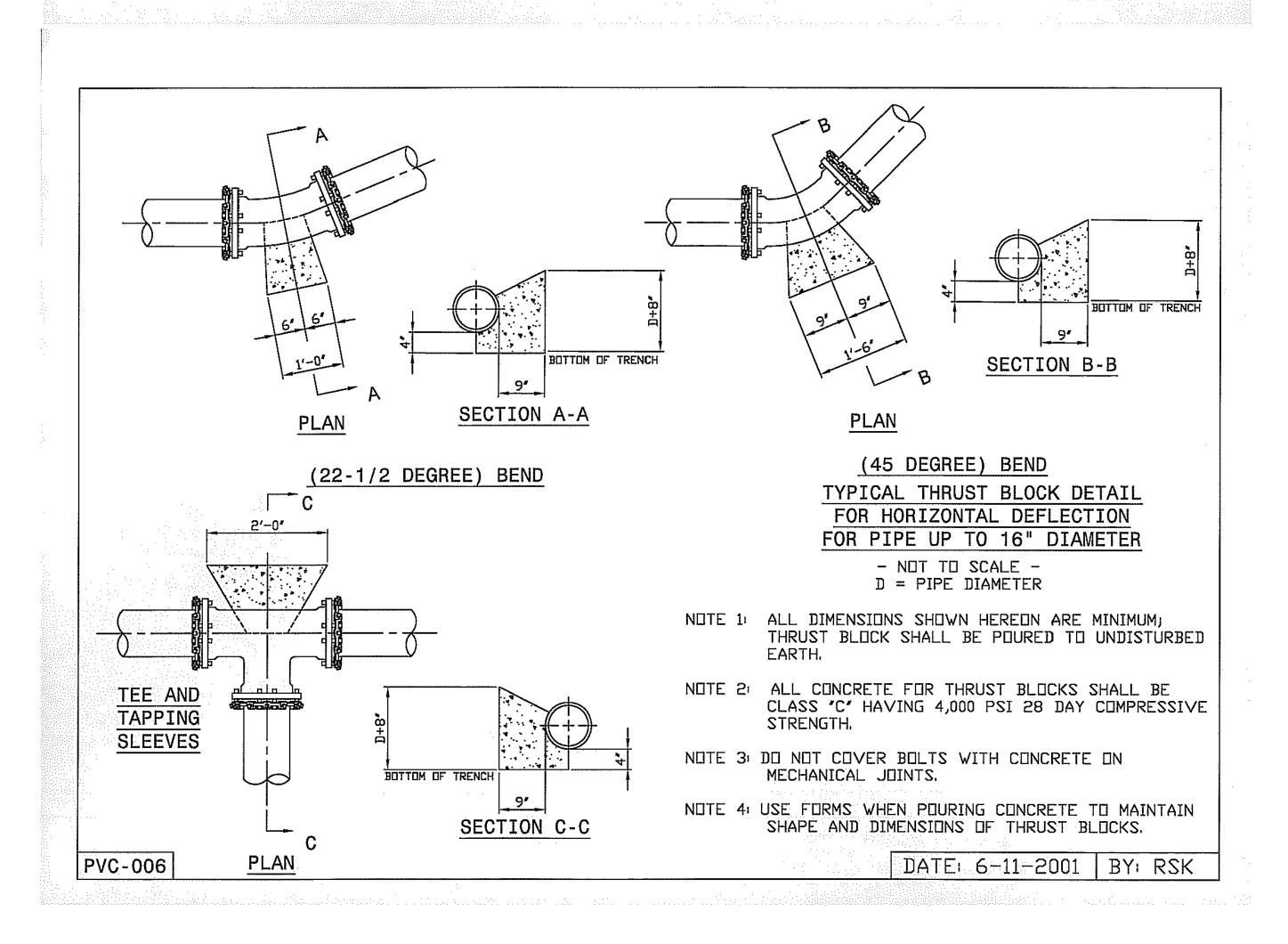
OF PROPOSED ROLLING GATE SYSTEM

WITH LOCAL CITY EMERGENCY SERVICE

DEPARTMENTS.

DISTORTING OR MOVING THE PIPE WHEN PLACING THE BACKFILL.

4) MINIMUM COMPACTION FOR PREMIUM BACKFILL SHALL BE 95% STANDARD PROCTOR.





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Reg. No.: 61709



PAYTO Architects

405 THE BRADLEY BUILDING
1220 WEST SIXTH STREET
CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC

BY: DR

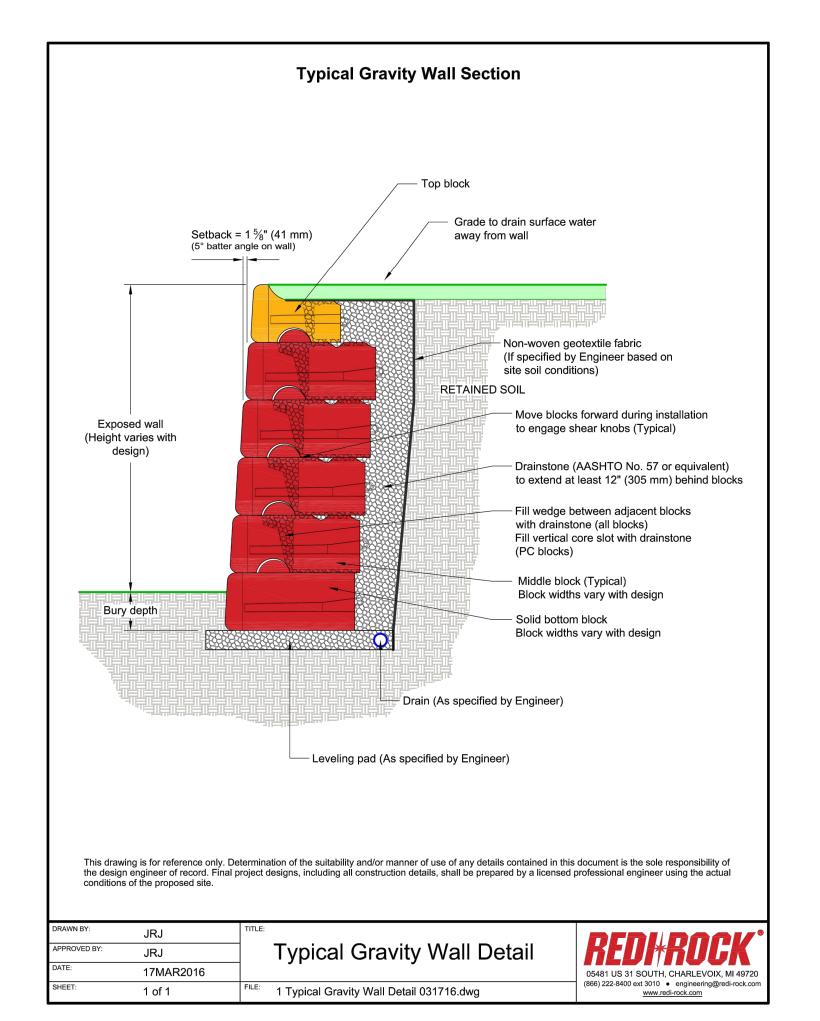
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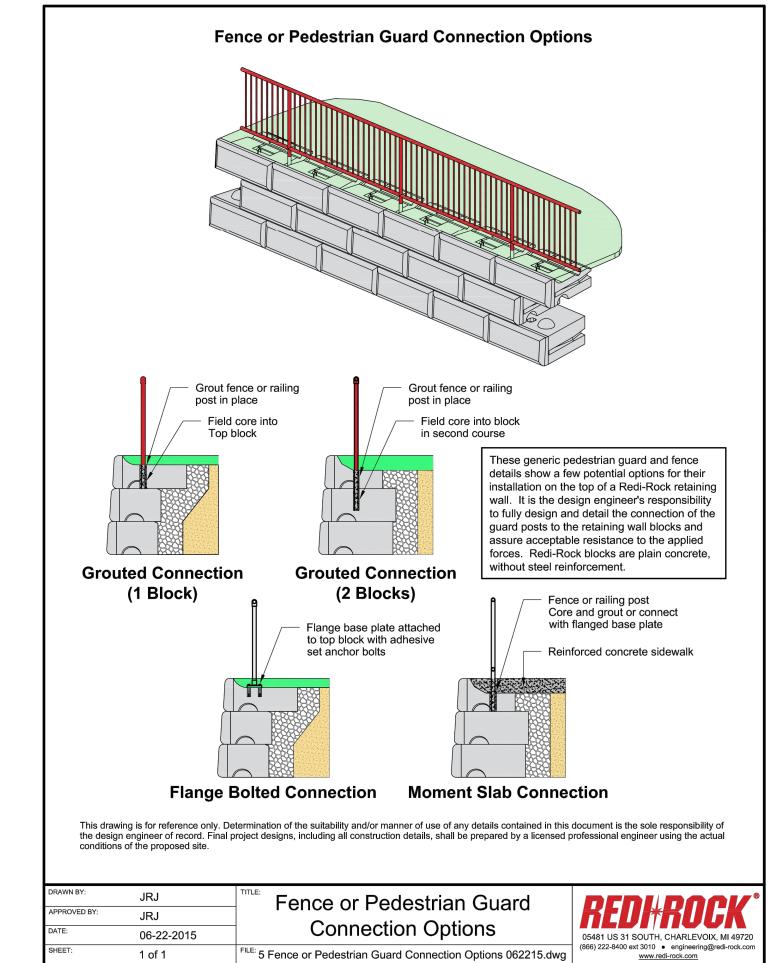
3800 VALLEY ROAD CLEVELAND, OH 44109

PB EXPRESS
SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEVELAND, OHIO
3800 VALLEY ROAD, CLEVELAND, OHIO

SITE DETAILS

C105B
Project No. 2023-144







matt@webercivil.com



Reg. No.: 61709



OWNER:

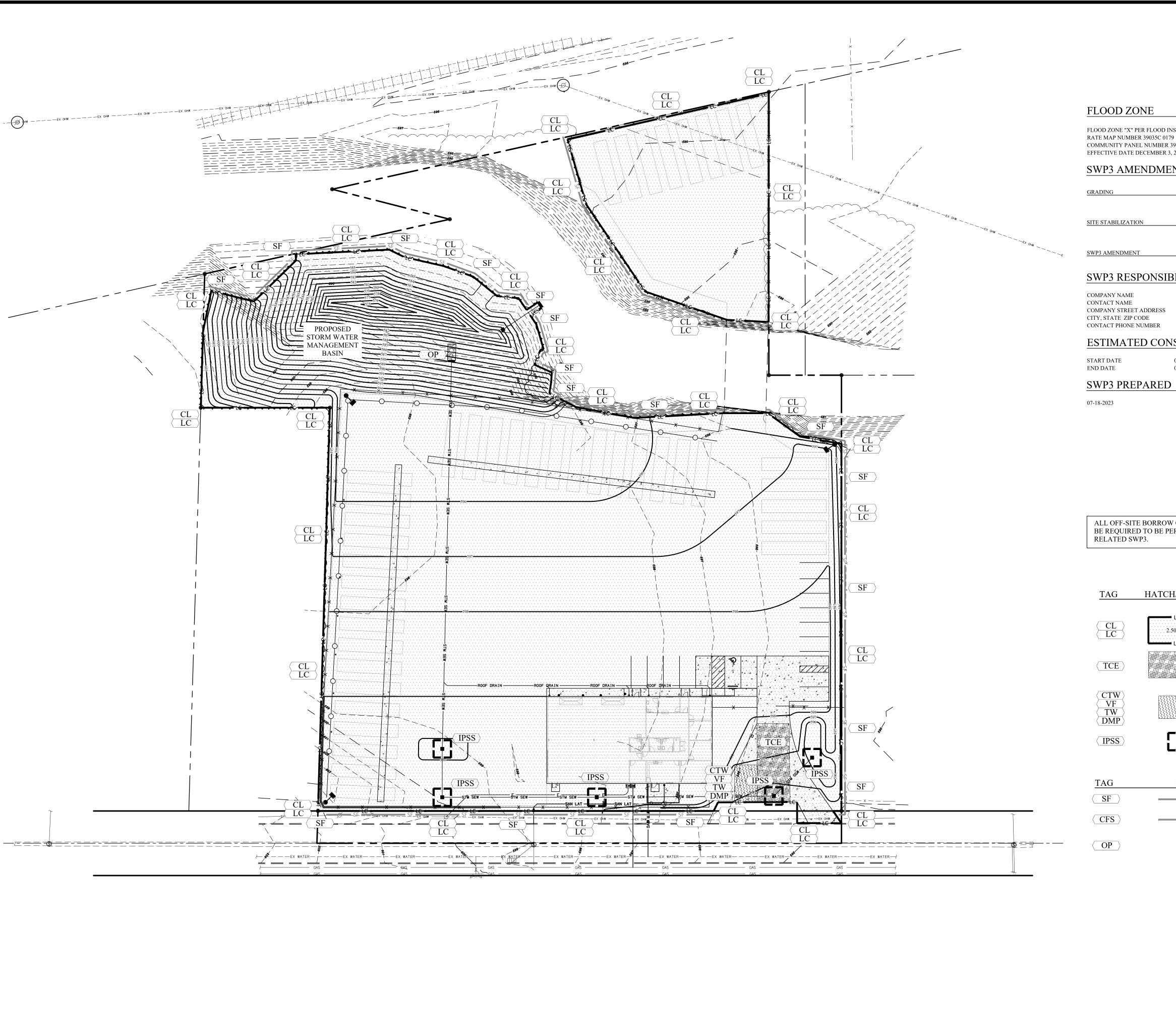
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SITE DETAILS

C105C
Project No. 2023-144



SITE BENCH MARK BENCH MARK #1 TOP NUT OF HYDRANT

ELEVATION = 602.96

#### FLOOD ZONE

FLOOD ZONE "X" PER FLOOD INSURANCE RATE MAP NUMBER 39035C 0179 E COMMUNITY PANEL NUMBER 39035 0179 E EFFECTIVE DATE DECEMBER 3, 2010

#### SWP3 AMENDMENT ACTIVITIES

#### SWP3 RESPONSIBLE PARTY

COMPANY STREET ADDRESS TBD CITY, STATE ZIP CODE

#### ESTIMATED CONSTRUCTION DATES

08-01-2023 04-01-2024

ALL OFF-SITE BORROW OR SPOIL AREAS SHALL BE REQUIRED TO BE PERMITTED BY A SEPARATE NOI AND RELATED SWP3.

HATCH/SYMBOL SWP3 BMP

CLEARING LIMITS, LIMITS OF CONSTRUCTION

TEMPORARY CONSTRUCTION ENTRANCE

CEMENT TRUCK WASHOUT, VEHICLE FUELING, TOXIC WASTE AND DUMPSTER LOCATION

INLET SILT SACK PROTECTION

(SEE DETAIL ON SHT. C109)

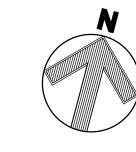
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\_\_\_\_\_ SF \_\_\_\_\_

SWP3 BMP SILT FENCE 12" COMPOST FILTER SOCK MAY BE SUBSTITUTED FOR SILT FENCE AT CONTRACTORS

DISCRETION

OUTLET PROTECTION



GRAPHIC SCALE

( IN FEET ) 1 inch = 30 ft. Weber Engineering

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Reg. No.: 61709

CLIENT:



1220 WEST SIXTH STREET CLEVELAND, OHIO 44113

OWNER:

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

> **Issue Date** 06-28-2023 07-18-2023

EXPRESS

E IMPROVEMENTS

O VALLEY ROAD, CLE PB E) SITE 3800

Project No. 2023-144

#### SWP3 Amendment Log

Project Name: 3800 Valley Road

Amendment No.	<b>Description of the Amendment</b>	Date of Amendment	Amendment Prepared By

#### SWP3 Grading and Stabilization Activities Log

Project Name: 3800 Valley Road

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased Indicate temporary or permanent	Data When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

#### **Corrective Action Log**

Project Name: 3800 Valley Road

<b>Inspection Date</b>	Inspector Name	Description of Corrective Action Needed (From Inspection Report)	Corrective Action Taken	<b>Date Action Taken</b>

#### **SWP3 Inspection Report Log**

Project Name: 3800 Valley Road

Турс	Rain Event	<b>Date of Inspection</b>	Name of Inspector	Inspection #
				1
				2
				3
				4
				5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				14

### **INSPECTION CHECKLIST**

INSPECTIONS SHALL BE MADE ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVEN GREATER THAN ONE-HALF INCH OF RAIN PER 24 HOUR PERIOD

DATE	INSPECTOR	WEATHER	RAINFALL	SEDIMENT	DISCHARGE	BMPS	ADDITIONAL	CORRECTION
		CONDITIONS	AMOUNT	DISCHARGE	LOCATION	FAILED	BMPS NEEDED	MADE



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CLEVELAND, OHIO 44113

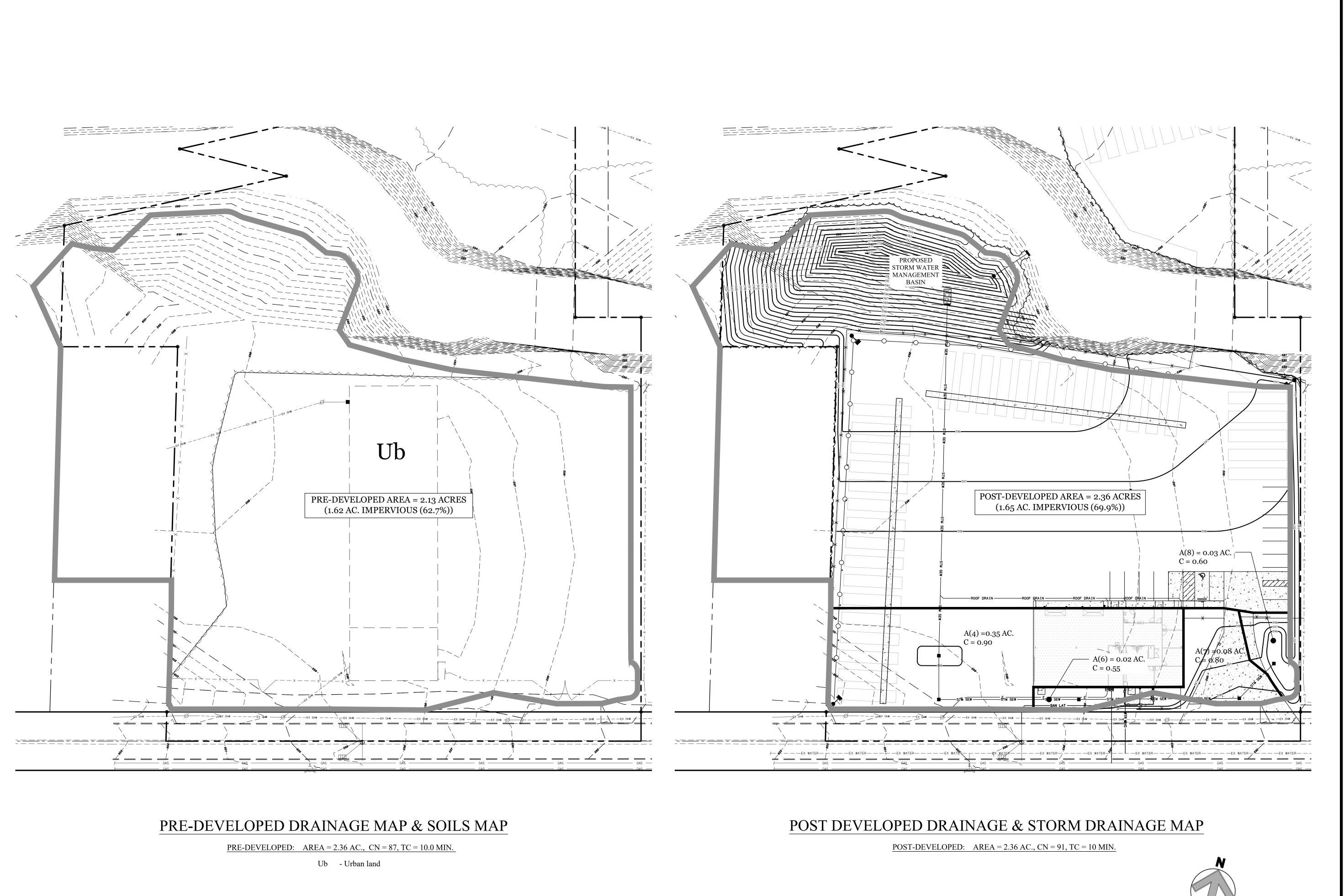
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SWP3 DETAILS

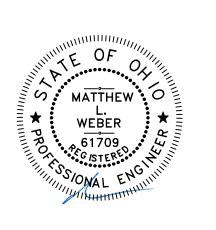
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SWP3 DETAILS

C107
Project No. 2023-144

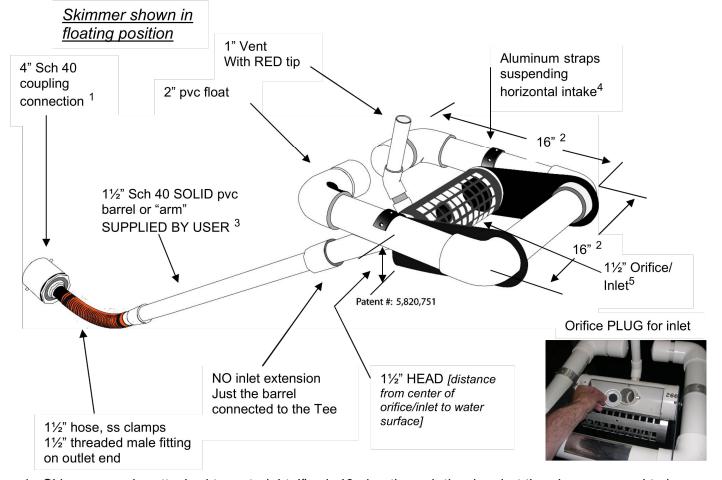
GRAPHIC SCALE

( IN FEET ) 1 inch = 30 ft.

Sealment	Basin Data	T T	
Basin Number			
	2.36		
A. Total Contributing Watershed (ac.)  B. Disturbed Area (ac.)			
	2.50		
C. Req. Dewatering Volume (A x 1,800 cu. ft./ac.)	4,248		
D. Req. Sediment Storage Zone Vol. (B* 1000)	2,500		
E. Total Required Capacity (C+D in cu ft)	6,748		
F. Dewatering Volume Provided (cu. ft./ac.)	6,713		
G. Sediment Storage Provided (cu. ft./ac.)	7,829		
H. Total Storage Provided in Crest of Riser (cu. ft./ac.)	14,542		
Principal Spillway			
Req. Principal Spillway Capacity (10 yr-24hr storm) (cfs)	8.59		
Principal Spillway Capacity Provided (cfs)	21.43		
Principal Spillway Elevation	583.85		
Riser (inches)	18" SQ		
Diameter of Barrel (inches)	12"		
Volume of Concrete to Prevent Riser Flotation (cu. ft.)	9		
Outlet Type			
Drawdown Time (Hours must exceed 48 hr drawdown)	72		
Mark selected outlet type (X)			
A. Non-perforated Riser with Stub & Faircloth Skimmer	X		
(Orifice size in inches)	1.3		
Stone pad provided at top of Sediment storage	X		
B. Protected Single Orifice			
(Orifice size in inches)			
C. Perforated Riser			
Hole size (inches)			
Number of Holes			
Protection of Perforations - sm holes (<3/4") typ need anti-clogging			
measure - aggregate > than hole size or wire cloth/fence & geotextile			
Bottom Elevation	575.00		
Sediment Storage Zone Elevation	582.00		
Crest of Principal Spillway Elevation (Min. 1 ft. below crest E. S.)	583.85		
Pool Depth at Riser (ft., ideally 3-5')	8.85		
Top of Embankment Elevation	585.95		
Embankment Side Slopes (Max 2:1, combined 5:1)	3:1		
Embankment Top Width (ft., baBOT on C/L Height, Min 8')	10		
1 ( , , = = = = = = = = = = = = = = = = =			
Req. Emergency Spillway Capacity (25 yr-24hr storm) (cfs)	10.75		
Req. Emergency Spillway Discharge (25 yr-24 hr storm less Principal S.)	-10.68		
Emergency Spillway Capacity Provided (cfs)	28.00		
Emergency Spillway Elevation	584.95		
Emergency Spillway Bottom Width	10.00		
Emergency Spillway Lining	Vegetative		
0 7 1 7 7 0	2 10		
Rock Outlet Protection (Size, gradation and quality of rock)			
Length	10.00		
Width	5.00		
Depth	1.50		
F	1.00		+

## 1½" Faircloth Skimmer® Cut Sheet

J. W. Faircloth & Son, Inc. www.FairclothSkimmer.com



- 1. Skimmer can be attached to a straight 4" sch 40 pipe through the dam but the pipe may need to be anchored to the bottom at the connection so it is secure. Coupling can be removed and hose attached to outlet using the threaded 1½" fitting. Typical methods: a) a metal structure with a steel stub out welded on the side at the bottom with a 1½" threaded coupling or reducer(s); b) a concrete structure with a hole or orifice at the bottom use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant, or c) grout a 4" PVC pipe in a hole in the concrete to connect the skimmer.
- 2. Dimensions are approximate, not intended as plans for construction.
- 3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with **a maximum length of 6'** so the inlet can be pulled to the side for maintenance. Skimmer is made for small sediment "traps" with a maximum depth of 4'.
- 4. Horizontal intake is 3" pipe between the straps with aluminum screen door for access to the 1½" orifice/inlet inside.
- 5. **Capacity:** 1,728 cubic feet per day maximum with 1½" inlet and 1½" head. Orifice/inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular drawdown time required. Please use the sizing template at <a href="www.fairclothskimmer.com">www.fairclothskimmer.com</a>.
- 6. Ships assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. **Includes** float, flexible hose, rope, orifice plug & cutter. Does NOT include 1½" Sch 40 SOLID pvc barrel or "arm".

1-5inchCut 5-1-19 © J. W. Faircloth & Son, Inc 2019

## TEMPORARY SEDIMENT CONTROL CALCULATIONS

Use a Temporary Skimmer		
Total Drainage Area:	2.36	A
Disturbed Earth Area:	2.50	A
Sediment Storage Volume Required (1,000 C.F./Ac.):	2,500	C.
Sediment Storage Volume Provided Below Skimmer Orifice:	7,829	C.
Dewatering Volume Required (1,800 C.F./Ac.)	4,248	C.
Dewatering Volume Provided Below Principal Spillway:	6,713	C.
Design Detention Volume:	18,670	C.
Bottom of Temporary Sediment Basin:	575.00	
Invert of Skimmer device:	582.00	
Normal Water Level:	582.00	
Cleanout Elevation:	577.80	
Set Crest of Principal Spillway at:	583.85	
Set Crest of Emergency Spillway at:	584.95	
Top of Bank:	585.95	

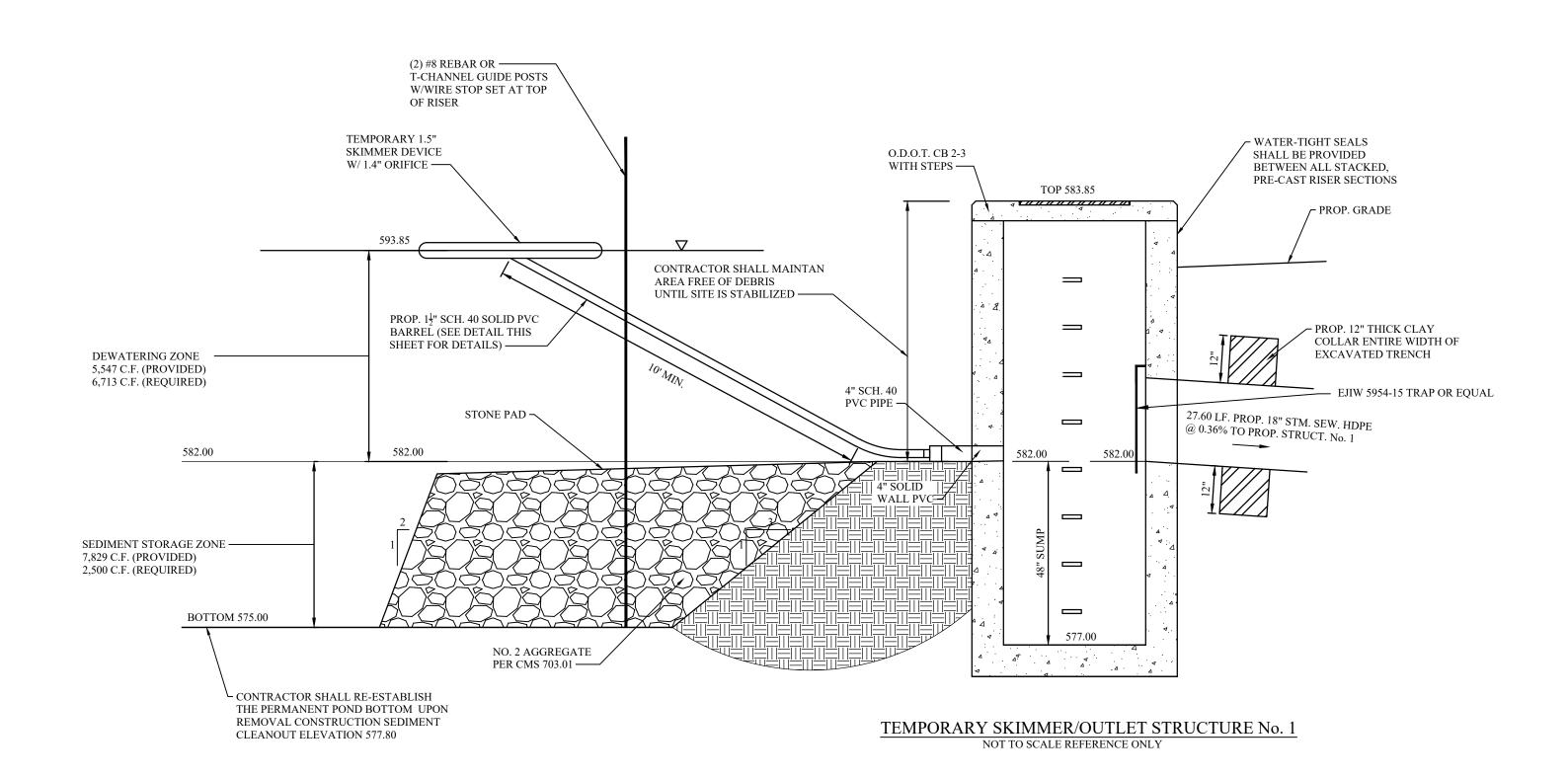
Retention Pond Information

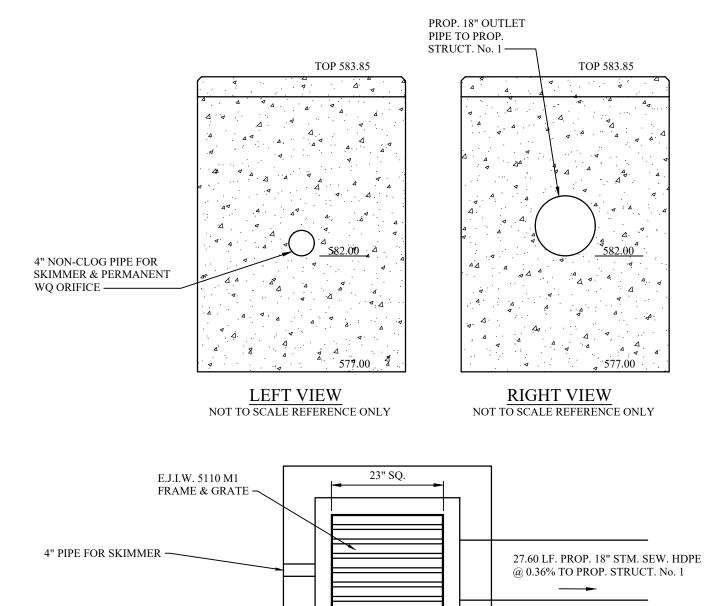
## TEMPORARY SEDIMENT CONTROL VOLUME CALCULATIONS

				Volume Sum		
	Elevation	Area, S.F.	Volume (C.F.)	(C.F.)	Spill	way Design
					14.46	100-yr Peak Flow, C.F.S.
					1.00	Spillway Height, Ft.
					10.00	Spillway Width, Ft.
			21			
BOT	575.00	21	0	0		
	576.00	161	91	91		
	577.00	438	299	390		
	578.00	790	614	1,004		
	579.00	1,191	990	1,995		
	580.00	1,669	1,430	3,425		
	581.00	2,194	1,931	5,356		
DEW	582.00	2,753	2,473	7,829		
	583.00	3,656	3,204	11,034		
	584.00	4,629	4,142	15,176		
	585.00	5,665	5,147	20,323		
TB	585.95	6,764	5,904	26,227		

## TEMPORARY SKIMMER DEVICE

Calculate Skimmer Size	4 2 4 2 2	244		L I-
Basin Volume in Cubic Feet	4,248 Cu.Ft	Skimmer Size	1.5	Inch
Days to Drain*	3 Days	Orifice Radius	0.7	Inch[e
	58C-1	Orifice Diameter	1.4	Inchie





TOP VIEW

NOT TO SCALE REFERENCE ONLY

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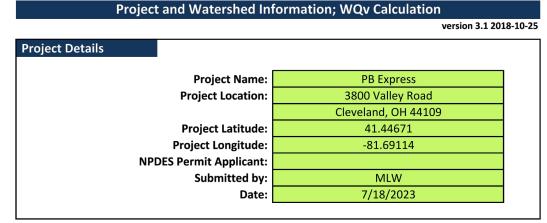
PB EXPRESS INC

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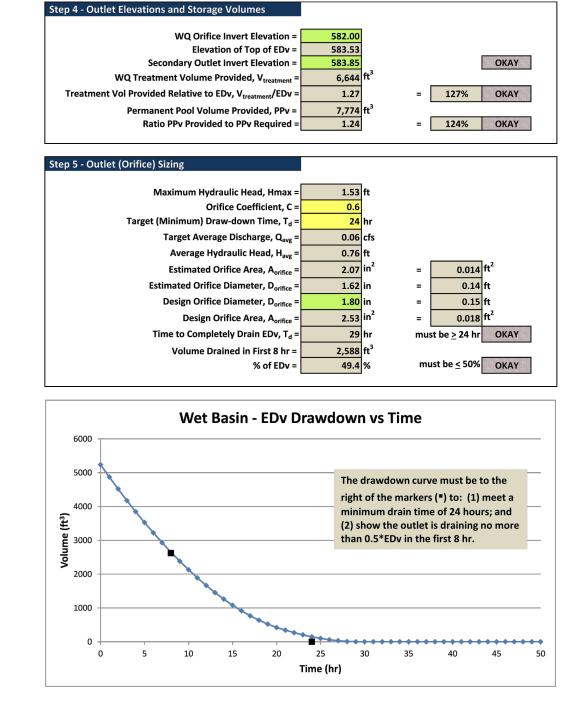
SWP3 DETAILS

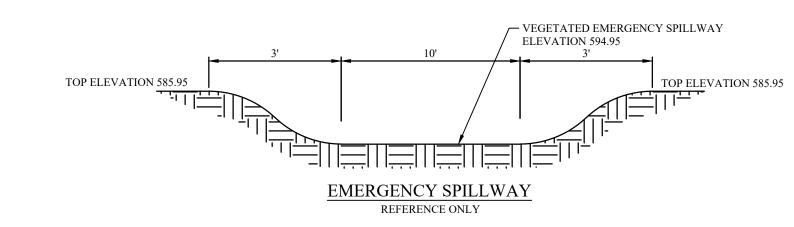
C108

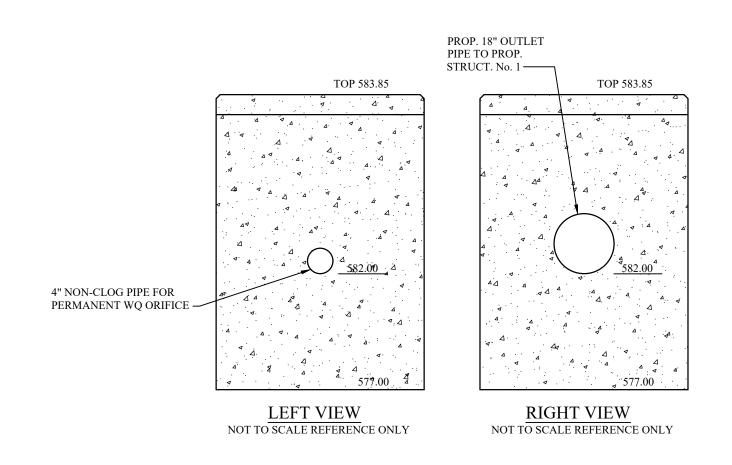


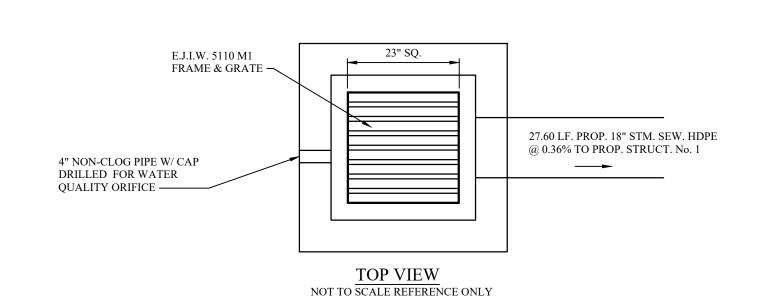
Subwatershed Details			
Subwatershed ID/Label:		New Pond	
Subwatershed Drainage Area, A <sub>total</sub> =	2.36	acres =	102,802 ft <sup>2</sup>
Subwatershed Impervious Area, A <sub>imp</sub> =	1.65	acres =	71,874 ft <sup>2</sup>
Imperviousness fraction, i =	0.70	=	70 %
Volumetric Runoff Coefficient, Rv =	0.68		
Water Quality Volume, WQv =	5,237	ft³	

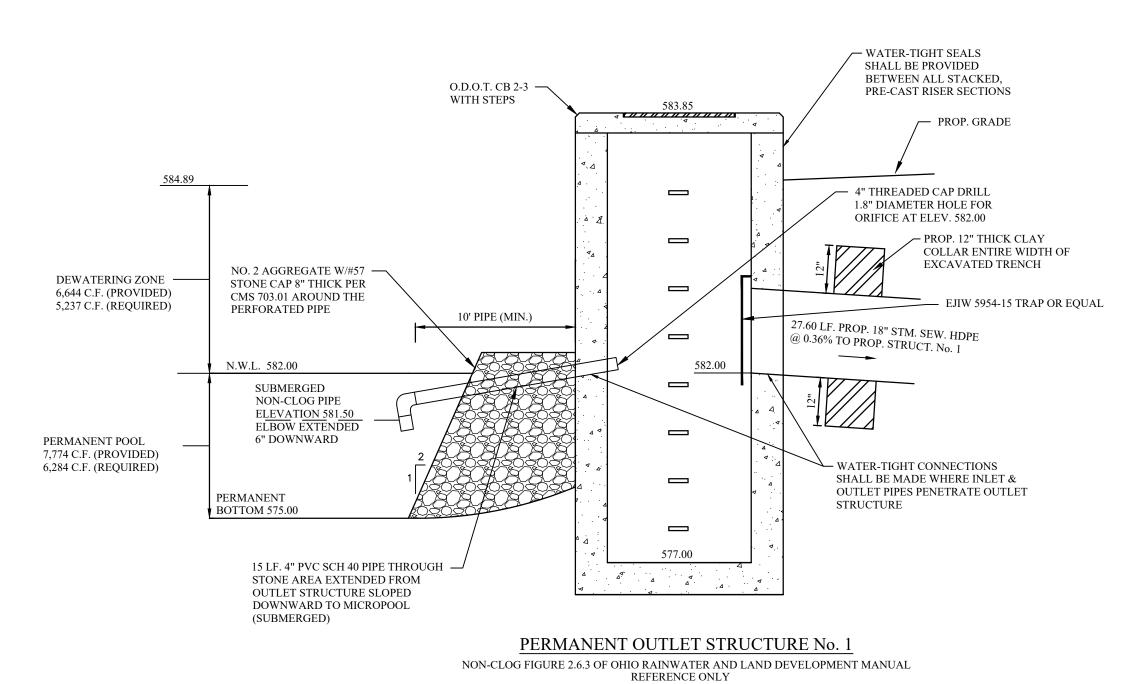
p 1 - Soil Suitability	2.36 2.36 1.65 0.70 5,237	acres	=	102,802 71,874 70 0.12	ft2 %
Subwatershed ID/Label: New Poi Submitted by: MLW Date: 7/18/20  Subwatershed Drainage Area, A <sub>total</sub> = Subwatershed Impervious Area, A <sub>imp</sub> = Imperviousness fraction, i = Water Quality Volume, WQv =  p 1 - Soil Suitability  Soil Series  U  p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv = Minimum Sediment Storage Volume, V <sub>sediment</sub> =	2.36 2.36 1.65 0.70 5,237	acres	-	71,874 70 0.12	ft2 % ac-ft
Subwatershed ID/Label: New Poi Submitted by: MLW Date: 7/18/20  Subwatershed Drainage Area, A <sub>total</sub> = Subwatershed Impervious Area, A <sub>imp</sub> = Imperviousness fraction, i = Water Quality Volume, WQv =  p 1 - Soil Suitability  Soil Series  U  p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv = Minimum Sediment Storage Volume, V <sub>sediment</sub> =	2.36 2.36 1.65 0.70 5,237	acres	-	71,874 70 0.12	ft2 % ac-ft
Submitted by: MLW Date: 7/18/20  Subwatershed Drainage Area, A <sub>total</sub> =  Subwatershed Impervious Area, A <sub>imp</sub> =  Imperviousness fraction, i =  Water Quality Volume, WQv =  P 1 - Soil Suitability  Soil Series  U  P 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	2.36 1.65 0.70 5,237	acres	-	71,874 70 0.12	ft2 % ac-ft
Subwatershed Drainage Area, A <sub>total</sub> =  Subwatershed Impervious Area, A <sub>imp</sub> =  Imperviousness fraction, i =  Water Quality Volume, WQv =  P 1 - Soil Suitability  Soil Series  U  P 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	2.36 1.65 0.70 5,237	acres	-	71,874 70 0.12	ft2 % ac-ft
Subwatershed Drainage Area, A <sub>total</sub> =  Subwatershed Impervious Area, A <sub>imp</sub> =  Imperviousness fraction, i =  Water Quality Volume, WQv =  p 1 - Soil Suitability  Soil Series  U  p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	2.36 1.65 0.70 5,237	acres	=	71,874 70 0.12	ft2 % ac-ft
Subwatershed Impervious Area, A <sub>imp</sub> = Impervious Area, A <sub>imp</sub> = Imperviousness fraction, i = Water Quality Volume, WQv = P 1 - Soil Suitability  P 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv = Minimum Sediment Storage Volume, V <sub>sediment</sub> =	1.65 a 0.70 5,237 d	acres	=	71,874 70 0.12	ft2 % ac-ft
Imperviousness fraction, i =  Water Quality Volume, WQv =  p 1 - Soil Suitability  Soil Series  U  p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	0.70 5,237 drban La	ft <sup>3</sup>		70 0.12	% ac-ft
P 1 - Soil Suitability  Soil Series  U  D 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv = Minimum Sediment Storage Volume, V <sub>sediment</sub> =	5,237 t		= [	0.12	ac-ft
p 1 - Soil Suitability  Soil Series U  p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	Jrban La		= [		
p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =		and		нsg	D
p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =		and		нsg	D
p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =		and		нsg	D
p 2 - Wet ED Basin Volume Requirements  Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =		and		HSG	D
Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	5007				
Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	5007				
Extended Detention Volume, EDv =  Minimum Sediment Storage Volume, V <sub>sediment</sub> =	5007				
Minimum Sediment Storage Volume, V <sub>sediment</sub> =					
	5237				
	1047	ft <sup>3</sup>			
	6284	ft <sup>3</sup>			
2. Paris Charac Characa Balatianakin					
p 3 - Basin Stage-Storage Relationship				ncremental (	Cumulative
Elevat	tion	Area		Volume	Volume
ft		ft <sup>2</sup>		ft <sup>3</sup>	ft <sup>3</sup>
	75.00	21		11	11.
· · · · · · · · · · · · · · · · · · ·	76.00	161	-	80	8
	77.00	438	_	288	36
	78.00	790		605	97
	79.00	1191		984	1,95
5	80.00	1669		1,423	3,38
5	81.00	2194		1,926	5,30
	82.00	2753		2,468	7,77
		3656		3,194	10,96
	83.00			4,133	15,10
	84.00	4629	_		
5	584.00 585.00	5665		5,138	
5	84.00				
5	584.00 585.00	5665		5,138	20,23 26,13

















Reg. No.: 61709



PAYIO Architects

405 THE BRADLEY BUILDING
1220 WEST SIXTH STREET
CLEVELAND, OHIO 44113

<u>OWNER:</u>

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

PB EXPRESS
SITE IMPROVEMENTS
3800 VALLEY ROAD, CLEVELAND, OHIO
CLEVELAND, OHIO

SWP3 DETAILS

C109
Project No. 2023-144

## STORM SEWER CALCULATIONS (10-YR)

Station	Len	Drng A	rea	Rnoff	Area x	С	Тс		Rain	Total		Vel	Pipe		Invert El	ev	HGL Ele	v	Grnd / Ri	m Elev	Line ID
ine To	1	Incr	Total	coeff	Incr	Total	Inlet	Syst	(I)	flow	full		Size	Slope	Dn	Up	Dn	Up	Dn	Up	-
Line	(ft)	(ac)	(ac)	(C)			(min)	(min)	(in/hr)	(cfs)	(cfs)	(ft/s)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	
1 End	239.9	0.35	0.49	0.90	0.32	0.42	10.0	22.2	3.3	1.37	4.13	3.52	12	1.15	587.00	589.75	587.50	590.25	588.55	597.75	ST-2
2 1		0.01	0.14	0.90	0.01	0.10	10.0	21.4	3.4	0.34	6.10	1.62	12	2.50	589.75	590.50	590.25	590.74	597.75	598.90	ST-3
3 2		0.02	0.13	0.55	0.01	0.09	10.0	18.6	3.6	0.34	3.94	1.46	12	1.04	590.05	591.05	590.74	591.29	598.90	598.00	ST-4
4 3		0.08	0.11	0.80	0.06	0.08	10.0	15.0	4.1	0.33	3.59	2.32	12	0.87	591.05	592.00	591.29	592.24	598.00	595.50	ST-5
5 4		0.03	0.03	0.60	0.02	0.02	10.0	10.0	4.9	0.09	4.71	1.13	12	1.49	592.00	592.50	592.24	592.62	595.50	595.50	ST-6

 Prevent 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 or onto the ground

•Don't pour down the sink, floor drain or septic tanks

•Don't bury chemicals or containers

•Don't bum chemicals or containers

•Don't mix chemicals together

Containers shall be provided for the proper collection of all waste material including construction debris, trash, petroleum products and any hazardous materials used on-site. Containers shall be covered and not leaking. All waste material shall be disposed of at facilities approved for that material. Construction Demolition and Debris (CD&D) waste must be disposed of at an Ohio EPA approved CD&D landfill.

3. No construction related waste materials are to be buried on-site. By exception. clean fill (bricks, hardened concrete, soil) may be utilized in a way which does not encroach upon natural wetlands, streams or floodplains or result in the contamination of

4. Handling Construction Chemicals. Mixing. pumping. transferring or other handling of construction chemicals such as fertilizer. lime, asphalt, concrete drying compounds, and all other potentially hazardous materials shall be performed in an area away from any watercourse. ditch or storm drain.

5. Equipment Fueling and Maintenance, oil changing. etc .. shall be performed away from watercourses. ditches or storm drains. in an area designated for that purpose. The designated area shall be equipped for recycling oil and catching spills. Secondary containment shall be provided for all fuel oil storage tanks. These areas must be inspected every seven days and within 24 hrs. of a 0.5 inch or greater rain event to ensure there are no exposed materials which would contaminate storm water. Site operators must be aware that Spill Prevention Control and Countermeasures (SPCC) requirements may apply. An SPCC plan is required for sites with one single above ground tank of 660 gallons or more, accumulative above ground storage of 1330 gallons or more, or 42,000 gallons of underground storage. Contaminated soils must be disposed of in accordance

**6.** Concrete Wash Water shall not be allowed to flow to streams, ditches, storm drains, or any other water conveyance. A sump or pit with no potential for discharge shall be constructed if needed to contain concrete wash water. Field tile or other subsurface drainage structures within 10 ft. of the sump shall be cut and plugged.

7. Spill Reporting Requirements: Spills on pavement shall be absorbed with sawdust or kitty litter and disposed of with the trash at a licensed sanitary landfill. Hazardous or industrial wastes such as most solvents, gasoline, oil-based paints, and cement curing compounds require special handling. Spills shall be reported to Ohio EPA (1-800-282-9378). Spills of 25 gallons or more of petroleum products shall be reported to Ohio EPA, the local fire department, and the Local Emergency Planning Committee within 30 min. of the discovery of the release. All spills which contact waters of the state must be reported to Ohio EPA.

**8. Contaminated Soils.** If substances such as oil, diesel fuel, hydraulic fluid, antifreeze, etc. are spilled, leaked, or released onto the soil, the soil should be dug up and disposed of at licensed sanitary landfill or other approved petroleum contaminated soil remediation facility. (not a construction/demolition debris landfill). Note that storm water runoff associated with contaminated soils are not be authorized under Ohio EPA's General Storm Water Permit associated with Construction Activities.

**9. Open Burning.** No materials containing rubber, grease, asphalt, or petroleum products, such as tires, autoparts, plastics or plastic coated wire may be burned (OAC 3745-19). Open burning is not allowed in restricted areas, which are defined as: 1) within corporation limits; 2) within 1000 feet outside a municipal corporation having a population of 1000 to 10,000; and 3) a one mile zone outside of a corporation of 10, 000 or more. Outside of restricted areas, no open burning is allowed within a 1000 feet of an inhabited building on another property. Open burning is permissible in a restricted area for: heating tar, welding, smudge pots and similar occupational needs, and heating for warmth or outdoor barbeques. Outside of restricted areas, open burning is permissible for landscape or land-clearing wastes (plant material, with prior written permission from Ohio EPA), and agricultural wastes, excluding buildings.

10. Dust Control or dust suppressants shall be used to prevent nuisance conditions, in accordance with the manufacturer's specifications and in a manner, which prevent a discharge to waters of the state. Sufficient distance must be provided between applications and nearby bridges, catch basins, and other waterways. Application (excluding water) may not occur when rain is imminent as noted in the short term forecast. Used oil may not be applied for dust control.

11. Other Air Permitting Requirements: Certain activities associated with construction will require air permits including but not limited to: mobile concrete batch plants, mobile asphalt plants, concrete crushers, large generators, etc. These activities will require specific Ohio EPA Air Permits for installation and operation. Operators must seek authorization from the corresponding district of Ohio EPA. For demolition of all commercial sites, a Notification for Restoration and Demolition must be submitted to Ohio EPA to determine if asbestos corrective actions are required.

12. Process Waste Water/Leachate Management. Ohio EPA's Construction General Permit only allows the discharge of storm water and does not include other waste streams/discharges such as vehicle and/or equipment washing, on-site septic leachate concrete wash outs, which are considered process wastewaters. All process wastewaters must be collected and properly disposed at an approved disposal facility. In the event, leachate or septage is discharged; it must be isolated for collection and proper disposal and corrective actions taken to eliminate the source of waste water.

13. A Permit To Install (PTn is required prior to the construction of all centralized sanitary systems, including sewer extensions, and sewerage systems (except those serving one, two, and three family dwellings) and potable water lines. Plans must be submitted and approved by Ohio EPA. Issuance of an Ohio EPA Construction General Storm Water Permit does not authorize the installation of any sewerage system where Ohio EPA has not approved a PTI.

## OHIO EPA PERMIT NO. OHC000006

PART III G. SWP3 REQUIREMENTS

a. COMMERCIAL BUILDING EXPANSION

b. TOTAL SITE AREA - 3.1771 AC. - DISTURBED AREA = 2.50 AC.

c. PRE-CONSTRUCTION CURVE NUMBER - CN=87; POST-CONSTRUCTION CURVE NUMBER CN=91

IMPERVIOUS AREA = 1.98 AC. (ENTIRE SITE), PERCENT IMPERVIOUS = 62.3%.

SOIL TYPES:

PRIOR LAND USE: DEVELOPED INDUSTRIAL

CONSTRUCTION SEQUENCE - SEE IMPROVEMENT PLANS

DISCHARGES TO BIG CREEK

• NO WETLANDS

• Ub - Urban land

NOT SUBDIVIDED (MEASURES IDENTIFIED ON PLANS)

NOT APPLICABLE

k. PERMIT REQUIREMENTS ATTACHED. (FIELD COPY)

**IDENTIFIED ON SHEET C106** 

m. IDENTIFIED ON SHEET C106

n. SITE MAP SHOWN ON PLANS

LIMITS OF CONSTRUCTION IDENTIFIED ON THE PLANS (LC).

SOIL TYPES IDENTIFIED ON THE PLANS

DRAINAGE WATER SHEDS IDENTIFIED ON THE PLANS. THERE ARE NO WETLANDS ON THE SITE. NO SPRINGS, LAKES OR

WATER WELLS WITHIN 200 FEET OF THE SITE.

EXISTING & PLANNED LOCATIONS OF BUILDINGS, ROADS, PARKING

FACILITIES AND UTILITIES ARE IDENTIFIED ON THE PLANS. EROSION AND SEDIMENT CONTROL PRACTICES ARE IDENTIFIED ON

THE PLANS.

(vii) SEDIMENT & STORM WATER MANAGEMENT DATA IS IDENTIFIED ON

THE PLANS (viii) PERMANENT STORM WATER MANAGEMENT PRACTICES ARE

IDENTIFIED ON THE PLANS. (ix) CEMENT TRUCK WASHOUT, DUMPSTER & VEHICLE FUELING AREA ARE IDENTIFIED ON THE PLANS.

CONSTRUCTION ENTRANCE IS IDENTIFIED ON THE PLANS.

NOT APPLICABLE

2. A. NOT APPLICABLE.

B. TEMPORARY SEEDING AND PERMANENT SEEDING MEASURES ARE IDENTIFIED ON THE PLANS.

(I) TABLE 1 & TABLE 2 HAVE BEEN IDENTIFIED ON THE PLANS. (II)NOT APPLICABLE.

C. SHEET FLOW RUNOFF HAS BEEN CONTROLLED BY MEANS OF SILT FENCE AND DIRECTED TOWARDS UNDISTURBED SOILS. POINT DISCHARGES HAVE BEEN CONTAINED WITHIN STORM SEWERS.

D. SEDIMENT CONTROL HAS BEEN MANAGED BY MEANS OF SILT FENCE.

NOTED THROUGHOUT THE PLANS.

SILT FENCE UTILIZED.

SILT FENCE IS IDENTIFIED ON THE PLANS.

INLET PROTECTION IS IDENTIFIED ON THE PLANS.

(V) NOT APPLICABLE.

NOTED ON THE IMPROVEMENT PLANS.

E. POST-CONSTRUCTION MAINTENANCE AND INSPECTION IS IDENTIFIED ON THE PLANS.

LARGE CONSTRUCTION ACTIVITIES - NOT APPLICABLE SMALL CONSTRUCTION ACTIVITIES - RATIONALE IDENTIFIED ON

F. SURFACE WATER PROTECTION - NOT APPLICABLE

G. OTHER CONTROLS

(I) CEMENT TRUCK WASHOUT AREA IS IDENTIFIED ON THE PLANS. (II)DUST CONTROL MEASURES AND VEHICLE TRACKING ARE IDENTIFIED ON THE PLANS.

ADDITIONAL NOTES ARE IDENTIFIED ON THE PLANS.

NOTED ON THE PLANS.

NOTED ON THE PLANS.

H. NOTED THROUGHOUT THE PLANS.

I. INSPECTION FREQUENCY AND INSPECTION CHECKLIST IS NOTED ON THE PLANS.

(I) NOTED ON THE PLANS.

NOTED ON THE PLANS.

STATEMENT NOTED.

3. APPROVED STATE OR LOCAL PLANS

4. EXCEPTIONS

STATEMENT NOTED.

STATEMENT NOTED.

## **CONSTRUCTION SEQUENCE**

(ALL ITEMS ARE TO BE THE RESPONSIBILITY OF THE GENERAL SITE CONTRACTOR)

SITE PREPARATION

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 EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE. THE CONTRACTOR MUST REVIEW THE APPROVED EROSION AND SEDIMENTATION CONTROL PLANS AND NARRATIVE THE CONTRACTOR MUST REVIEW THE APPROVED NPDES PERMIT AND SIGN THE PERMIT TO ACCEPT RESPONSIBILITIES AS THE CO-PERMITEE.

### INITIAL PHASE (WITHIN 7 DAYS OF START OF GRUBBING)

1. INSTALL A TEMPORARY CONSTRUCTION ENTRANCE FOR ACCESS TO CONSTRUCTION AREAS OF SITE.

2. SETUP CONSTRUCTION TRAILER ON SITE AND ESTABLISH TEMPORARY POWER AND TELEPHONE SERVICE AS NECESSARY.

3. ALL TEMPORARY UTILITY SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

4. STAKEOUT LIMITS OF DISTURBANCE.

5. INSTALL TEMPORARY INLET PROTECTION ON ALL EXISTING CATCH BASINS WITHIN LIMITS OF CONSTRUCTION. REMOVE SILT PROTECTION FROM DESIGNATED INLETS ONLY WHEN INLET STRUCTURE IS TO BE REMOVED AS REQUIRED BY PROGRESSION OF CONSTRUCTION. REFER TO PLANS FOR IDENTIFICATION OF INLET STRUCTURES TO BE REMOVED.

6. INSTALL ALL FILTER FABRIC FENCE WHERE SHOWN ON PLANS.

7. BEGIN SITE CLEARING.

8. REMOVE TOPSOIL FROM AREAS OF BUILDING AND PAVEMENT.

9. BEGIN EARTHWORK OPERATIONS.

10. CONSTRUCT STORM WATER BASIN.

11. IN THE EVENT OF RAIN, ALLOW STANDING WATER TO SETTLE PRIOR TO PUMPING. UTILIZE THE PUMPING SYSTEMS TO PUMP POLLUTED WATER PER E.P.A. REQUIREMENTS. ALLOW ONLY CLEAN WATER TO BE DISCHARGED TO THE EXISTING DRAINAGE SYSTEM. REMOVE SILT FROM BASINS 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 A GEOTECHNICAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE AND ENSURE THAT PROPER MECHANISMS ARE IN PLACE TO CONTROL WASTE MATERIALS. CONSTRUCTION WASTES INCLUDES, 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.

## INTERIM PHASE GENERAL CONSTRUCTION

1. MAINTAIN TEMPORARY CONTROLS UNTIL REMOVAL IS WARRANTED DUE TO PROGRESSION OF WORK.

BEGIN EARTHMOVING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE COUNTY CONSERVATION DISTRICT OF LOCATION AND EROSION AND SEDIMENTATION CONTROL MEASURES IMPLEMENTED AT BORROW OR SPOIL SITE OF IMPORT/EXPORT MATERIAL. THE CONTRACTOR IS TO COORDINATE WITH OWNER THE PLACEMENT OF SUCH MEASURES.

3. STORM SEWER, SANITARY SEWER, WATER LINE AND UTILITY LINE CONSTRUCTION MAY BEGIN IMMEDIATELY FOLLOWING ESTABLISHMENT OF

GRADE AND WITH THE PERMISSION OF THE OWNER. 4. STABILIZE ALL UTILITY TRENCHES AT THE END OF EACH WORKDAY BY

MEANS OF GRAVEL BACKFILL TO SURFACE, REPAVING OR MULCHING.

5. REPLACE TOPSOIL, FINE GRADE AND SEED AS REQUIRED.

6. STABILIZE ALL DISTURBED AREAS WITH PERMANENT SEED AND MULCHING OR CROWNVETCH SEEDING IMMEDIATELY UPON REACHING FINAL GRADE.

7. INSTALL PAVEMENT SUBBASE.

8. BEGIN BITUMINOUS PAVING, REMOVING TEMPORARY CONSTRUCTION ENTRANCE ONLY WHEN NECESSARY.

9. RESEED AND REDRESS ANY AREAS THAT MAY REQUIRE ATTENTION IMMEDIATELY. NOTE THAT LAWN AREAS WILL NOT BE DEEMED STABLE UNTIL A UNIFORM 80% COVERAGE IS ACHIEVED.

10. ALL EROSION MEASURES SHALL REMAIN IN PLACE UNTIL THE SITE IS STABILIZED. ALL AREAS OF VEGETATIVE SURFACE STABILIZATION, WHETHER TEMPORARY OR PERMANENT, SHALL BE CONSIDERED TO BE IN PLACE AND FUNCTIONAL WHEN THE REQUIRED UNIFORM RATE OF COVERAGE (80%) IS OBTAINED.

## FINAL PHASE POST-PAVING BASIN CONVERSION

1. 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 SEEDED AND MULCHED WITH TEMPORARY SEED MIXTURE.

2. THE FOLLOWING ITEMS MUST BE COMPLETED BY THE CONTRACTOR, IN ORDER, ONCE THE SITE HAS BEEN DEEMED STABLE:

A. REMOVE SEDIMENT CONTROL DEVICES AND ESTABLISH WATER QUALITY CONTROL ORIFICE.

B. REMOVE TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO COMPLETION OF PAVING.

C. SITE CLEAN UP.

RESEED ANY AREAS THAT REQUIRE ADDITIONAL SEED

FILTER FENCES ARE TO BE CLEANED, REMOVED, BACKFILLED AND SEEDED WITH PERMANENT SEEDING.

VERIFY POSITIVE CONVEYANCE FLOW IN ALL DRAINAGE STRUCTURES.

## SPECIFICATIONS FOR TEMPORARY SEEDING

SEEDING DATES	SPECIES	LB/100 FT^2	LB/ACRE
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (4 BUSHEL) 40 40
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	55 142 17 17
	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	128 (3 BUSHELS) 40 40
AUGUST 16TH TO NOVEMBER	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	112 (2 BUSHEL) 40 40
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	120 (BUSHEL) 40 40
	PERENNIAL RYE TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 40 40
	ANNUAL RYEGRASS PERENNIAL RYEGRASS CREEPING RED FESCUE KENTUCKY BLUEGRASS	1.25 3.25 0.4 0.4	40 40 40
NOVEMBER 1 TO FEB. 29	USE MULCH ONLY F	FOR DORMANT	SEEDING

STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT FRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY SEEDING PRIOR TO GRADING THE

TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 14 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATION: OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS

THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING EGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

SOIL AMENDMENTS.-APPLICATIONS OF TEMPORARY VEGETATION SHALL. ESTABLISHED ADFOLIATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.

SEEDING METHOD--SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, ULTIPACKER 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 CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTIO

## MULCHING TEMPORARY SEEDING

REST OF THE CONSTRUCTION-SITE

APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT SOIL CONDITIONS MAY NOT NEED MULCH TO

MATERIALS: STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2 ONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION. HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT. OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS: MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL, STRAW MECHANICALLY ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN. MULCH IETTINGS--NETTINGS SHALL BE USED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES. SYNTHETIC BINDERS.-SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC). DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER, WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED. A A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. / 100 GAL.

## BMP INSPECTION CHECKLIST

<u>=</u>	MI INSTECTION CHECK	TELS I
BMP	FREQUENCY	NOTES
GENERAL INSPECTION	EVERY 6 MO.	
STORM WATER BASIN	MONTHLY	
VEGETATION	MONTHLY	FIRST 2 GROWING
		SEASONS THEN TWICE
		A YEAR
SILT FENCE	MONTHLY	FIRST GROWING SEASON

REGULAR INSPECTION AND MAINTENANCE WILL BE PROVIDED FOR ALL EROSION AND SEDIMENT CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE KEPT THROUGHOUT THE CONSTRUCTION PERIOD. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.5 INCHES OF RAIN IN A 24 HOUR PERIOD. PROVIDED WILL BE NAME OF INSPECTOR, MAJOR OBSERVATIONS. DATED OF INSPECTION AND CORRECTIVE MEASURES TAKEN. RECORDS SHALL L BE SUBMITTED TO THE CITY OF CLEVELAND ENGINEERING DEPARTMENT FOR REVIEW BY MAY 1st OF EACH YEAR.

ALL CONTROL PRACTICES THAT REOUIRE REPAIR SHALL BE REPAIRED WITHIN THREE (3) DAYS OF THE INSPECTION.

INSPECTION REPORTS SHALL BE MAINTAINED FOR 3 YEARS FOLLOWING PROJECT COMPLETION.

ONLY "QUALIFIED" PERSONNEL ARE TO PERFORM WEEKLY AND STORM EVENT THE INSPECTION CHECKLIST SHALL BE COMPLETED AND SIGNED BY THE INSPECTOR

BMPS NOT MEETING THE INTENDED FUNCTION SHALL BE REPLACED WITH A NEW BMP WITHIN 10 DAYS OF THE INSPECTION

MISSING BMPS REQUIRED FOR INSTALLATION BY THE SWP3 SHALL BE INSTALLED WITHIN 10 DAYS OF INSPECTION.

## ADDITIONAL SWP3 CONSIDERATIONS

NO OPEN BURNING

AFTER EVERY INSPECTION.

DUST CONTROL SHALL BE ACHIEVED BY USE OF WATERING TRUCKS. USE OF OIL IS STRICTLY PROHIBITED. INLET PROTECTION MUST BE IMPLEMENTED PRIOR TO DUST CONTROL MEASURES.

IN THE EVENT OF A PETROLEUM SPILL (>25 GALLONS) OR THE PRESENCE OF OIL SHEEN, THE CONTRACTOR SHALL CONTACT THE OHIO E.P.A. AT 800-282-9378, THE LOCAL FIRE DEPARTMENT.

AGENT, THE ABSORBING AGENT REMOVED AND DISPOSED OF ACCORDING TO FEDERAL REGULATIONS. ALL TRENCH DEWATERING MEASURES SHALL BE DISCHARGED INTO SETTLING

BASINS PRIOR TO DISCHARGE FROM SITE. BMP'S THAT REQUIRE REPAIR SHALL BE REPAIRED WITHIN 3 DAYS OF INSPECTION. SETTLING PONDS MUST BE REPAIRED

SMALL SPILLS (<25 GALLONS) SHALL BE CLEANED UP USING AN ABSORBING

STREETS ADJACENT TO SITE SHALL BE CLEANED AT THE END OF EACH WORK

## POST-CONSTRUCTION BMP RATIONALE

WITHIN 10 DAYS OF INSPECTION.

STORM WATER MANAGEMENT AND POST CONSTRUCTION WATER QUALITY BMP'S HAVE BEEN ADDRESSED BY MEANS OF AN ON-SITE STORM WATER MANAGEMENT/WATER QUALITY BASIN.

MAINTENANCE F	OR PERM	ANENT SEI	EDINGS F	FERTILIZATION AN	ID MOWING
MIXTURE	FORMULA	LBS./ACRE	LBS./1,000 SQ. FT	TIME	MOWING
CREEPING RE FESCUE RYEGRASS KEENTCKY BLUEGRASS	10-10-10	500	12	FALL, YEARLY AS NEEDED	NOT CLOSER THAN 3"
TALL FESCUE	10-10-10	500	12		NOT CLOSER
TURF-TYPE FESCUE	10-10-10	500	12		THAN 4"
CROWN VETCH FESCUE	0-20-20	400	10	SPRING, YEARLY FOLLOWING ESTABLISHMENT AND EVERY 4-7	DO NOT MOW

NOTE: FOLLOWING SOIL TEST RECOMMENDATIONS IS PREFERRED TO FERTILIZER RATES SHOWN ABOVE

## SPECIFICATIONS FOR PERMANENT SEEDING

SITE PREPARATION

1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION (MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY.) SUBSOILING SHOULD BE DONE WHEN THE SOIL MOISTURE IS LOW ENOUGH TO ALLOW THE SOIL TO CRACK OR FRACTURE. SUBSOILING SHALL NOT BE DONE ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION

2. THE SITE SHALL BE GRADED AS NEEDED TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION AND SEEDING.

TOPSOIL SHALL BE APPLIED WHERE NEEDED TO ESTABLISH VEGETATION. SEEDBED PREPARATION LIME--AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACID SOIL AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOII TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB /1 000 SO FT OR 2 TONS/ACRE

FERTILIZER--FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AT A RATE OF 25 LB./1,000 SQ. FT. OR 1000 LB./ACRE OF 10-10-10 OR 12-12-12 ANALYSES. THE LIME AND FERTILIZER SHALL BE WORKED

INTO THE SOIL WITH A DISK HARROW,

SPRING-TOOTH HARROW OR OTHER SUITABLE

FIELD IMPLEMENT TO A DEPTH OF 3 INCHES. ON

SLOPING LAND, THE SOIL SHALL BE WORKED ON

EROSION PREVENTION PRACTICES

SEEDING DATES AND SOIL CONDITIONS

SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 OR AUG 1 TO SEPTEMBER 30. IF SEEDING OCCURS OUTSIDE OF THE ABOVE SPECIFIED DATES, ADDITIONAL MULCH AND IRRIGATION MAY BE REQUIRED TO ENSURE A MINIMUM OF 80% GERMINATION. TILLAGE FOR SEEDBED PREPARATION SHOULD BE DONE WHEN SOIL IS DRY ENOUGH TO CRUMBLE AND NOT FORM RIBBONS WHEN COMPRESSED BY HAND. FOR WINTER SEEDING, SEE THE FOLLOWING SECTION ON

DORMANT SEEDING

SEEDINGS SHOULD NOT BE MADE FROM OCTOBER 1 THROUGH NOVEMBER 20. DURING THIS PERIOD, THE SEEDS ARE LIKELY TO GERMINATE BUT PROBABLY WILL NOT BE ABLE TO SURVIVE THE WINTER.

"DORMANT SEEDING" FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER, THEN MULCH AND ANCHOR.

AFTER NOVEMBER 20, BROADCAST THE SELECTED SEED

MIXTURE AT A 50% INCREASE IN THE SEEDING RATE.

THE FOLLOWING METHODS MAY BE USED FOR

FROM NOVEMBER 20 THROUGH MARCH 15 WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED. AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, MULCH AND ANCHOR, INCREASE THE SEEDING RATES BY 50% FOR THIS TYPE OF SEEDING

ON A FIRM, MOIST SEEDBED WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER OR LIGHT DRAG. ON SLOPING LAND, SEEDING OPERATIONS SHOULD

KENTUCKY BLUEGRASS

DISTURBED AREAS THAT WILL BE DORMANT

CREEPING RED FESCUE

APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER.

DRILL, CULTIPACKER SEEDER OR HYDRO-SEEDER

(SLURRY MAY INCLUDE SEED AND FERTILIZER)

FOLLOW THE CONTOUR WHERE FEASIBLE.

FLAT PEA FESCUE 0-20-20 400 10 YEARS THEREAFTER DO NOT MOW

AFTER SEEDING, DORMANT SEEDING SHALL BE MULCHED. 100% OF THE GROUND SURFACE SHALL BE COVERED WITH AN APPROVED MATERIAL. STRAW--IF STRAW IS USED IT SHALL BE UNROTTED SMALL-GRAIN STRAW APPLIED AT THE RATE OF 2 TONS/ACRE

OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH

SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALL

THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTIO

HAND-SPREAD MULCH, SECTIONS AND SPREAD TWO 45-LB

MULCH MATERIAL SHALL BE APPLIED IMMEDIATELY

BALES OF STRAW IN EACH SECTION. HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT 2,000 LB./ACRE. OR 46 LB./1,000 SQ. FT. OTHER--OTHER ACCEPTABLE MULCHES INCLUDE ROLLED EROSION CONTROL MATTINGS OR BLANKETS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT 6

OF DIVIDE AREA INTO APPROXIMATELY 1,000-SO.-FT.

STRAW AND MULCH ANCHORING METHODS

STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. MECHANICAL--A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW

MECHANICALLY ANCHORED SHALL NOT BE FINELY

CHOPPED BUT GENERALLY LEFT LONGER THAN 6 IN

ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA

TACK OR EQUIVALENT MAY BE USED AT RATES

ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MAY BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES

MULCH NETTINGS-NETTINGS SHALL BE USED

## SPECIFIED BY THE MANUFACTURER. EROSION PREVENTION PRACTICES

WOOD CELLULOSE FIBER--WOOD CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 BS./ACRE. THE WOOD CELLULOSE FIBER SHALL BE MIXED WITH WATER WITH THE MIXTURE CONTAINING A MAXIMUM OF 50 LBS. CELLULOSE/100 GALLONS OF WATER.

RRIGATION
PERMANENT SEEDING SHALL INCLUDE IRRIGATION TO ESTABLISH VEGETATION DURING DRY WEATHER OR ON ADVERSE SITE CONDITIONS, WHICH REQUIRE ADEOUATE MOISTURE FOR SEED GERMINATION AND

IRRIGATION RATES SHALL BE MONITORED TO

PREVENT EROSION AND DAMAGE TO SEEDED AREAS FROM EXCESSIVE RUNOFF.

FOR SHADED AREAS

### PERMANENT SEEDING SEEDING RATE SEED MIX NOTES LBS./ACRE LBS./1,000 SQ. FEET GENERAL USE CREEPING RED FESCUE DOMESTIC RYEGRASS OR CLOSE MOWING & 1/4-1/2 FOR WATERWAYS WITH<2.0 FT/SEC VELOCITY TALL FESCUE $1-1\frac{1}{4}$ TURF- TYPE (DWARF) FESCUE STEEP BANKS OR CUT SLOPES TALL FESCUE 40-50 DO NOT SEED LATER 1/4-1/2 1/2-3/4 THAN AUGUST DO NOT SEED LATER 20-30 1/2-3/4 THAN AUGUST ROAD DITCHES AND SWALES TALL FESCUE 40-50 1-1 1/4 TURF-TYPE 2 1/4 (DWARF) FESCUE KENTUCKY BLUEGRASS LAWNS KENTUCKY BLUEGRASS PERENNIAL RYEGRASS

## TABLE 1: PERMANENT STABILIZATION

1-1/2

100-120

NOTE: OTHER APPROVAL SEED SPECIES MAY BE SUBSTITUTED.

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

## TABLE 2: TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION TIME FRAME TO APPLY EROSION CONTROLS ANY DISTURBED AREAS WITHIN 50 FEET OF A WITHIN TWO DAYS OF THE MOST RECENT SURFACE WATER OF THE STATE AND NOT AT DISTURBANCE IF THE AREA WILL REMAIN IDLE FINAL GRADE OR MORE THAN 14 DAYS FOR ALL CONSTRUCTION ACTIVITIES, AND WITHIN SEVEN DAYS OF THE MOST RECENT

FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE FOR RESIDENTIAL SUBDIVISIONS, DISTURBED WATER OF THE STATE 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 PRIOR TO THE ONSET OF WINTER WEATHER

DISTURBANCE WITHIN THE AREA

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNORTAINABLE. ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII.



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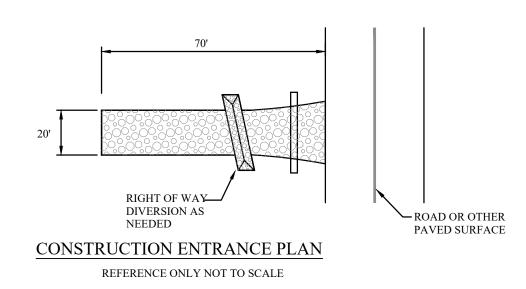
PB EXPRESS INC 3800 VALLEY ROAD

CLEVELAND, OH 44109

Issue Date 06-28-2023 07-18-2023 SSO  $\mathbb{L}$ 

SWP3

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## ROAD OR OTHER PAVED SURFACE -18" OR SUFFICIENT

## TCE > SPECIFICATIONS FOR CONSTRUCTION ENTRANCE

- 1. STONE SIZE ODOT #2 (1.5-2.5 INCH) STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
- 2. LENGTH- THE CONSTRUCTION ENTRANCE SHALL BE AS LONG AS REQUIRED TO STABALIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 70 FT. (EXCEPTION:

APPLY 30 FT. MINIMUM TO SINGLE RESIDENCE LOTS.)

- 3. THICKNESS- THE STONE LAYER SHALL BE AT LEAST 6 INCHES THICK FOR LIGHT DUTY ENTRANCES OR AT LEAST 10 INCHES FOR HEAVY DUTY USE.
- 4. WIDTH- THE ENTRANCE SHALL BE AT LEAST 14 FEET WIDE, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- 5. GEOTEXTILE- A GEOTEXTILE SHALL BE LAID OVER THE ENTIRE AREA PRIOR TO PLACING STONE . IT SHALL BE COMPOSED OF STRONG ROT-PROOF POLYMERIC FIBERS AND MEET THE FOLLOWING SPECIFICATIONS.

		10.
GEOTEXTILE SPECIFICATION FO	OR CONSTRUCTION ENTRANCE	
MINIMUM TENSILE STRENGTH	200 LBS.	
MINIIMUM PUNCTURE STRENGTH	80 PSI.	11.
MINIMUM TEAR STRENGTH	50 LBS.	
MINIMUM BURST STENGTH	320 PSI.	
MINIMUM ELONGATION	20%	
EQUIVALENT OPENIING SIZE	EOS<0.6MM.	
PERMITTIVITY	1X10^3 CM/SEC.	

- 6. TIMING- THE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS SOON AS IS PRACTICABLE BEFORE MAJOR GRADING ACTIVITIES.
- 7. 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 DIRECT OUT ONTO PAVED SURFACES.

- 8. 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 SPILLED, DROPPED, 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 SCRAPING OR
- 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.

6" MIN.

UNDISTURBED

48" X 24"

PAINTED

CÒNCRETE

CONCRETE WASHOUT SIGN

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM

WATERCOURSES. FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION

SHOWN ON THE DETAIL WITH A MINIMUM LENGTH AND MINIMUM WIDTH OF 10'.

PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL POLYETHYLENE

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT

OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL

7. WASHOUT OF CONCRETE TRUCKS SHALL BE PERFORMED IN DESIGNATED AREAS

CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO

CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT

WHEN TEMPORARY WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE

WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT THE WASHOUT FACILITIES SHALL BE

SHEETING AND SHALL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT

TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AS

OF 50 FT FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND

TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.

5. A SIGN SHALL BE INSTALLED ADJACENT TO WASHOUT FACILITY TO INFORM

CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.

LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT PROCEDURES.

8. ONLY CONCRETE FROM MIXER TRUCK CHUTES SHOULD BE WASHED INTO

10. CONCRETE WASTES SHALL BE ALLOWED TO HARDEN THEN BROKEN UP,

REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF.

REMOVED, AND PROPERLY DISPOSED OF IN ACCORDANCE WITH LOCAL

TEMP. CONCRETE WASHOUT FACILITY

LATH AND FLAGGING SHALL BE COMMERCIAL TYPE.

AREA OR PROPERLY DISPOSED OF OFFSITE.

REGULATION ON A REGULAR BASIS

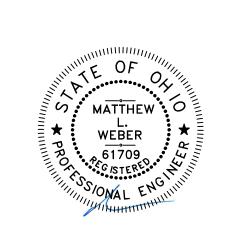
CONCRETE WASHOUT.

COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

WASHOUT

GROUND

18" MIN.



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Vhere Strong Relationships & Superior Service Guide Your I

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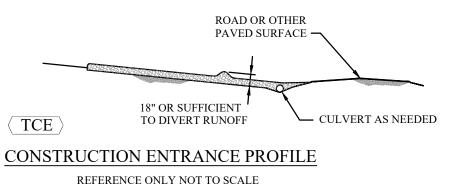
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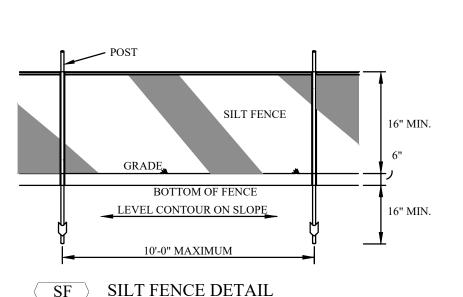
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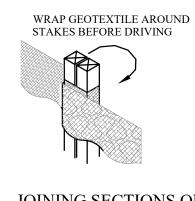
SWP3

Project No. 2023-144





REFERENCE ONLY NOT TO SCALE







LATH & FLAGGING

ON ALL SIDES —



 $\bigcirc$ 

FLAT SLOPE IN FRONT OF BARRIER

ATTACHED TO STAKES -

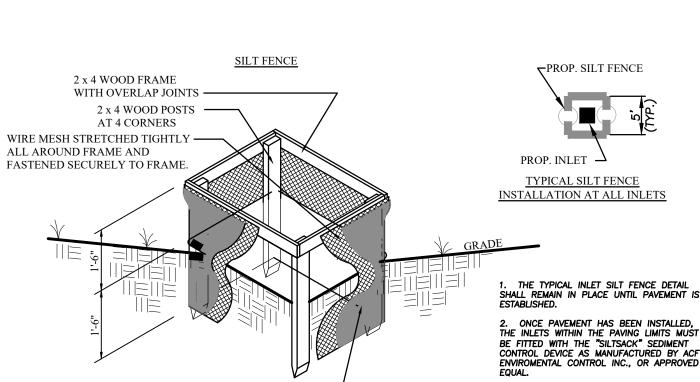
TRENCH UPSLOPE

STAKES. BACKFILL AND COMPACT THE — EXCAVATED SOIL.

ALONG LINE OF

PLACE FILTER FABRIC IN 6 X 6" EXCAVATED

FILTER FABRIC



GEOTEXTILE STRETCHED TIGHTLY OVER MESH — AND FASTENED SECURELY. THE GEOTEXTILE SHALL OVERLAP ACROSS ONE SIDE OF INLET SO THE ENDS OF CLOTH ARE NOT FASTENED TO THE SAME POST.

- INLET PROTECTION SHALL BE CONSTRUCTED EITHER BEFORE UPSLOPE LAND DISTURBANCE BEGINS OR BEFORE THE STORM INLET BECOMES
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF THE INLET AND THE TOP PORTION OF 2-BY-4-IN. FRAME ASSEMBLED USING THE OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD 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.
- 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 TOP OF THE FRAME TO 18 INCHES BELOW THE INLET NOTCH ELEVATION. THE GEOTEXTILE SHALL OVERLAP ACROSS ON SIDE OF THE INLET SO THE ENDS OF THE CLOTH ARE NOT FASTENED TO THE SAME POST.
- EVEN WITH NOTCH ELEVATION ON ENDS AND TOP ELEVATION ON SIDES.
- HIGHER THAN THE TOP OF THE FRAME.

## MAINTENANCE

EFFECTIVE STORM DRAIN INLET PROTECTION COLLECTS SEDIMENT AND THEREFORE MUST BE CLEANED REGULARLY TO PREVENT CLOGGING AND SUBSEQUENT FLOODING CONDITIONS, PIPING, OR OVERTOPPING OF THE CONTROL STRUCTURES. SEDIMENT BARRIERS THAT SAG, FALL OVER, OR ARE NOT PROPERLY SECURED, MUST BE PROMPTLY REPAIRED OR REPLACED.

LOCATION WHERE IT IS STABLE AND NOT SUBJECT TO EROSION.

REFERENCE ONLY NOT TO SCALE

## 1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED) OPTIONAL OVERFLOW SILTSACK DUMP LOOPS (REBAR NOT INCLUDED) SIDE VIEW INSTALLED **INLET PROTECTION NOT** 1. THE TYPICAL INLET SILT FENCE DETAIL SHALL REMAIN IN PLACE UNTIL PAVEMENT IS ESTABLISHED.

DETAIL OF INLET SEDIMENT CONTROL DEVICE WITH CURB DEFLECTOR

INSTALLATION DETAIL

2. ONCE PAVEMENT HAS BEEN INSTALLED, THE INLETS WITHIN THE PAVING

DEVICE AS MANUFACTURED BY ACF ENVIROMENTAL CONTROL INC., OR

3. SILT SACK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDED &

LIMITS MUST BE FITTED WITH THE "SILTSACK" SEDIMENT CONTROL

APPROVED EQUAL.

(IPSS) SILTSACK DETAIL

## SF SPECIFICATIONS FOR SILT FENCE

GROUND.

- 1. SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- 2. ALL SILT FENCE 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 WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- 3. TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER
- 4. WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- 5. WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- 6. THE HEIGHT OF THE SILT FENCE SHALL BE A MIN. OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
- 7. THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MIN. OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- 8. THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWN SLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE, EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. 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
- 10. MAINTENANCE--SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BÉ CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.
- SEDIMENT DEPOSITS SHALL BE ROUTINELY REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELYONE-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 POSTS-- THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2 IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN
- 2. SILT FENCE FABRIC (SEE CHART BELOW):

POSTS SHALL BE 10 FT.

MINIMUM CRITERIA	FOR SILT FENCE FAB	RIC (ODOT, 2002)
FABRIC PROPERTIES	VALUES	TEST METHOD
MINIMUM TENSILE STRENGTH	120 LBS. (535 N)	ASTM D 4362
MAXIMUM ELONGATION AT 60 LBS	50%	ASTM D 4632
MINIMUM PUNCTURE STRENGTH	50 LBS (220 N)	ASTM D 4833
MINIMUM TEAR STRENGTH	40 LBS (180 N)	ASTM D 4533
APPARENT OPENING SIZE	<.84 MM	ASTM D 4751
MINIMUM PERMITTIVITY	1X10^2 SEC^-1	ASTM D 4491
UV EXPOSURE STRNEGTH RETENTION	70%	ASTM D 4355

THE TYPICAL INLET SILT FENCE DETAIL LL REMAIN IN PLACE UNTIL PAVEMENT IS 10 MIL PLASTIC ENVIROMENTAL CONTROL INC., OR APPROVED  $\bigcirc$  $\bigcirc$ LINING 3. SILT SACK MUST REMAIN IN PLACE UNTIL THE SITE HAS BEEN SEEDED & STABILIZED. BLACK SANDBAGS — LETTERS \_\_\_ 10 MIL PLASTIC 6" HEIGHT LINING GEOTEXTILE MATERIAL SHALL HAVE AN SECTION A-A

- BACKFILL SHALL BE PLACED AROUND THE INLET IN COMPACTED 6-IN. LAYERS UNTIL THE EARTH IS
- A COMPACTED EARTH DIKE OR A CHECK DAM SHALL BE CONSTRUCTED IN THE DITCH LINE BELOW THE INLET IF THE INLET IS NOT IN A DEPRESSION AND IF RUNOFF BYPASSING THE INLET WILL NOT FLOW TO A SETTLING POND. THE TOP OF EARTH DIKES SHALL BE AT LEAST 6 INCHES

INLET PROTECTION SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT. AREAS WHERE THERE IS ACTIVE TRAFFIC SHALL BE INSPECTED DAILY, REPAIRS SHALL BE MADE AS NEEDED TO ASSURE THE PRACTICE IS PERFORMING AS INTENDED. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION IS ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. SEDIMENT SHALL BE REMOVED AND PLACED IN A

ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, ALL FILTER MATERIAL AND COLLECTED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED.

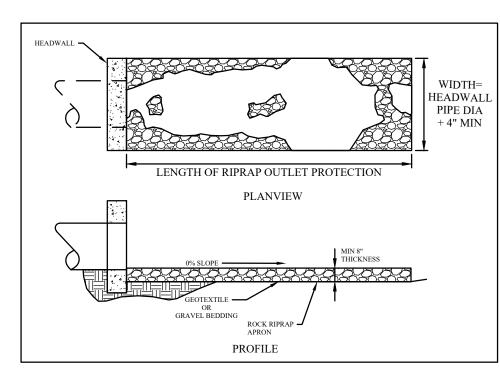
( IP ) SPECIFICATIONS FOR GEOTEXTILE INLET PROTECTION

## SPECIFICATIONS FOR DUST CONTROL

ADHESIVES FOR DUST CONTROL								
ADHESIVE	WATER DILUTION (ADHESIVE WATER)	NOZZLE TYPE	APPLICATION RATE GAL./AC.					
LATEX EMULSION	12.5:1	FINE	235					
TESIN IN WATER ACRYLIC EMULSION (NO-TRAFFIC)	4:1	FINE	300					
ACRYLIC EMULSION (NO-TRAFFIC)	7:1	COARSE	450					
ACRYLIC EMULSION (TRAFFIC)	3.5:1	COARSE	350					

- 1. VEGETATIVE COVER AND/MULCH- APPLY TEMPORARY OR PERMANENT SEEDING AND MULCH TO AREAS THAT WILL REMAIN IDLE FOR OVER 21 DAYS. SAVING EXISTING TREES AND LARGE SHRUBS WILL ALSO REDUCE SOIL AND AIR MOVEMENT ACROSS DISTURBED AREAS. SEE TEMPORARY SEEDING; PERMANENT SEEDING; MULCHING PRACTICES; AND TREE AND NATURAL AREA PROTECTION PRACTICES.
- 2. WATERING- SPRAY SITE WITH WATER UNTIL THE SURFACE IS WET BEFORE AND DURING GRADING AND REPEAT AS NEED, ESPECIALLY ON HAUL ROADS AND OTHER HEAVY TRAFFIC ROUTES. WATERING SHALL BE DONE AT A RATE THAT PREVENTS DUST BUT DOES NOT CAUSE SOIL EROSION. WETTING AGENTS SHALL BE UTILIZED ACCORDING TO MANUFACTURERS INSTRUCTIONS.
- SPRAY-ON ADHESIVES-APPLY ADHESIVE ACCORDING TO THE FOLLOWING TABLE OR MANUFACTURERS' INSTRUCTIONS
- 4. STONE GRADED ROADWAYS AND OTHER SUITABLE AREAS WILL BE STABILIZED USING CRUSHED STONE OR COARSE GRAVEL AS SOON AS PRACTICABLE AFTER REACHING AN INTERIM OR FINAL GRADE. CRUSHED STONE OR COARSE GRAVEL CAN BE USED AS A PERMANENT COVER TO PROVIDE CONTROL OF SOIL EMISSIONS.
- BARRIERS- EXISTING WINDBREAK VEGETATION SHALL BE MARKED AND PRESERVED. SNOW FENCING OR OTHER SUITABLE BARRIER MAY BE PLACED PERPENDICULAR TO PREVAILING AIR CURRENTS AT INTERVALS OF ABOUT 15 TIMES THE BARRIER HEIGHT TO CONTROL AIR **CURRENTS AND BLOWING SOIL**
- 6. CALCIUM CHLORIDE THIS CHEMICAL MAY BE APPLIED BY MECHANICAL SPREADER AS LOOSE, DRY GRANULES OR FLAKES AT A RATE THAT KEEPS THE SURFACE MOIST BUT NOT SO HIGH AS TO CAUSE WATER POLLUTION OR PLANT DAMAGE. APPLICATION RATES SHOULD BE STRICTLY IN ACCORDANCE WITH SUPPLIERS' SPECIFIED RATES.
- 7. OPERATION AND MAINTENANCE WHEN TEMPORARY DUST CONTROL MEASURES ARE USED; REPETITIVE TREATMENT SHOULD BE APPLIED AS NEEDED TO ACCOMPLISH CONTROLS.

STREET CLEANING- PAVED ARES THAT HAVE ACCUMULATED SEDIMENT FROM CONSTRUCTION SHOULD BE CLEANED DAILY, OR AS NEED, UTILIZING A STREET SWEEPER OR BUCKET-TYPE ENDLOADER OR SCRAPER.



- AND RIPRAP SHALL BE PREPARED TO THE REQUIRED LINES AND GRADES AS SHOWN ON THE PLAN. THE SUBGRADE SHALL BE CLEARED OF ALL TREES, STUMPS, ROOTS, SOD, LOOSE ROCK, OR OTHER MATERIAL
- 2. RIPRAP SHALL CONFORM TO THE
- 3. GEOTEXTILE SHALL BE SECURELY ANCHORED ACCORDING TO MANUFACTURERS' RECOMMENDATIONS.
- 4. GEOTEXTILE SHALL BE LAID WITH THE LONG DIMENSION PARALLEL TO THE DIRECTION OF FLOW AND SHALL BE LAID LOOSELY BUT WITHOUT WRINKLES AND CREASES. WHERE JOINTS ARE NECESSARY, STRIPS SHALL BE PLACED TO PROVIDE A 12-IN. MINIMUM OVERLAP, WITH THE UPSTREAM STRIP

SPECIFICATIONS FOR MULCHING

1. MULCH AND OTHER APPROPRIATE

VEGETATIVE PRACTICES SHALL BE APPLIED

DAYS OR ON AREAS AND PORTIONS OF THE

SITE WHICH CAN BE BROUGHT TO FINAL

• STRAW - SHALL BE UNROTTED SMALL GRAIN

STRAW APPLIED AT THE RATE OF 2 TONS/AC.

OR 90 LB./1,000 SQ. FT. (TWO TO THREE BALES).

UNIFORMLY BY HAND OR MECHANICALLY SO

THE SOIL SURFACE IS COVERED. FOR UNIFORM

1,000-SQ.-FT. SECTIONS AND PLACE TWO 45-LB.

THE STRAW MULCH SHALL BE SPREAD

DISTRIBUTION OF HAND-SPREAD MULCH,

• HYDROSEEDERS - WOOD CELLULOSE FIBER

• OTHER - ACCEPTABLE MULCHES INCLUDE

MULCH MATTINGS AND ROLLED EROSION

CONTROL PRODUCTS APPLIED ACCORDING TO

MANUFACTURER'S RECOMMENDATIONS OR

WOOD MULCH/CHIPS APPLIED AT 10-20

SHOULD BE USED AT 2,000 LB./AC. OR 46

DIVIDE AREA INTO APPROXIMATELY

BALES OF STRAW IN EACH SECTION.

DORMANT (UNDISTURBED) FOR MORE THAN 21

TO DISTURBED AREAS WITHIN 7 DAYS OF

GRADING IF THE AREA IS TO REMAIN

2. MULCH SHALL CONSIST OF ONE OF THE

FOLLOWING:

LB./1,000 SQ. FT.

TONS/AC.

- SUBGRADE FOR THE FILTER OR BEDDING 5. GRAVEL BEDDING SHALL BE ODOT NO. 67'S OR 57'S UNLESS SHOWN DIFFERENTLY ON THE DRAWINGS.
  - 6 RIPRAP MAY BE PLACED BY FOUIPMENT BUT SHALL BE PLACED IN A MANNER TO PREVENT SLIPPAGE OR DAMAGE TO THE
  - THAT DOES NOT CAUSE SEGREGATION OF SIZES. EXTENSIVE PUSHING WITH A DOZER CAUSES SEGREGATION AND SHALL BE AVOIDED BY DELIVERING RIPRAP NEAR ITS FINAL LOCATION WITHIN THE CHANNEL.
  - 8. CONSTRUCTION SHALL BE SEQUENCED SO THAT OUTLET PROTECTION IS PLACED AND FUNCTIONAL WHEN THE STORM DRAIN, CULVERT, OR OPEN CHANNEL ABOVE IT BECOMES
- OVERLAPPING THE DOWNSTREAM STRIP. 9. ALL DISTURBED AREAS WILL BE VEGETATED AS SOON AS PRACTICAL.

ANCHORED IMMEDIATELY TO MINIMIZE

ARE ACCEPTABLE METHODS FOR

• MECHANICAL - USE A DISK, CRIMPER, OR

ANCHORING MULCH:

LOSS BY WIND OR RUNOFF. THE FOLLOWING

SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH

OR ANCHOR THE MULCH MATERIAL INTO THE

SHALL NOT BE FINELY CHOPPED BUT BE LEFT

SOIL. STRAW MECHANICALLY ANCHORED

• MULCH NETTINGS - USE ACCORDING TO THE

ANCHORING REQUIREMENTS. USE IN AREAS

MANUFACTURER'S RECOMMENDATIONS,

OF WATER CONCENTRATION AND STEEP

• SYNTHETIC BINDERS - FOR STRAW MULCH,

SYNTHETIC BINDERS SUCH AS ACRYLIC DLR

RECOMMENDED BY THE MANUFACTURER.

ALL APPLICATIONS OF SYNTHETIC BINDERS

WHERE THERE IS NO CONTACT WITH WATER

• WOOD CELLULOSE FIBER - WOOD CELLULOSE

THE FIBER BINDER SHALL BE APPLIED AT A

CELLULOSE FIBER SHALL BE MIXED WITH

MAXIMUM OF 50 LB./100 GAL. OF WOOD

NET DRY WEIGHT OF 750 LBS./AC. THE WOOD

WATER AND THE MIXTURE SHALL CONTAIN A

FIBER MAY BE USED FOR ANCHORING STRAW.

MUST BE CONDUCTED IN SUCH A MANNER

(AGRI-TAC), DCA-70, PETROSET, TERRA TACK,

GENERALLY LONGER THAN 6 INCHES.

FOLLOWING ALL PLACEMENT AND

SLOPES TO HOLD MULCH IN PLACE.

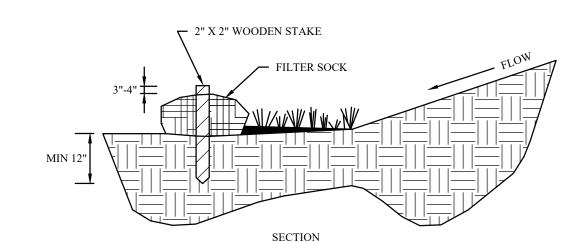
OR EQUAL MAY BE USED AT RATES

OF THE STATE.

CELLULOSE FIBER.

SPECIFICATIONS FOR ROCK OUTLET PROTECTION REFERENCE ONLY NOT TO SCALE





- 1. MATERIALS-COMPOST USED FOR FILTER SOCKS SHALL BE WEED, PATHOGEN AND INSECT FREE AND FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. THEY SHALL BE DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER AND CONSIST OF PARTICLES RANGING FROM  $\frac{3}{8}$ " TO 2"
- FILTER SOCKS SHALL BE 3 OR 5 MIL CONTINUOUS, TUBULAR, HDPE 3" KNITTED MESH NETTING MATERIAL, FILLED WITH COMPOST PASSING THE ABOVE SPECIFICATIONS FOR COMPOST PRODUCTS.

## INSTALLATION:

- FILTER SOCKS WILL BE PLACED ON A LEVEL LINE ACROSS SLOPES, GENERALLY PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREA. ON SLOPES APPROACHING 2:1, ADDITIONAL SOCKS SHALL BE PROVIDED AT THE TOP AND AS NEEDED
- 4. FILTER SOCKS INTENDED TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE SHALL BE SEEDED AT THE TIME OF INSTALLATION FOR ESTABLISHMENT OF

PERMANENT VEGETATION.

5. FILTER SOCKS ARE NOT TO BE USED IN CONCENTRATE FLOW SITUATIONS OR IN RUNOFF CHANNELS.

- 6. ROUTINELY INSPECT FILER SOCKS AFTER EACH SIGNIFICANT RAIN. MAINTAINING FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE FILTER SOCKS IN A FUNCTIONAL CONDITION AT ALL TIMES.
- WHERE THE FILTER SOCK DETERIORATES OR FAILS, IT WILL BE REPAIRED OR REPLACED WITH A MORE EFFECTIVE ALTERNATIVE.
- 9. REMOVAL-FILTER SOCKS WILL BE DISPERSED ON SITE WHEN NO LONGER REOUIRED IN SUCH A WAY AS TO FACILITATE AN NO OBSTRUCT SEEDINGS.

SPECIFICATIONS FOR SODDING

### 1. SOD SHALL BE HARVESTED, DELIVERED AND INSTALLED WITHIN A PERIOD OF 48 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD SHALL BE INSPECTED AND APPROVED PRIOR TO INSTALLATION. 3. MULCH ANCHORING - MULCH SHALL BE 2. THE SOD SHALL BE KEPT MOIST AN COVERED DURING HAULING AND

- PREPARATION FOR PLACEMENT. 3. SOD SHALL BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF 0.75
- INCHES, PLUS OR MINUS 0.25 INCHES, AT THE TIME OF CUTTING. MEASUREMENTS FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND

## SITE PREPARATION

- 1. A SUBSOILER, PLOW OR OTHER IMPLEMENT SHALL BE USED TO REDUCE SOIL COMPACTION AND ALLOW MAXIMUM INFILTRATION. MAXIMIZING INFILTRATION WILL HELP CONTROL BOTH RUNOFF RATE AND WATER QUALITY. SUBSOILING SHALL NOT BE CONDUCTED ON SLIP-PRONE AREAS WHERE SOIL PREPARATION SHOULD BE LIMITED ONLY TO WHAT IS NECESSARY FOR ESTABLISHING VEGETATION.
- 2. THE AREA SHALL BE GRADED AND TOPSOIL SPREAD WHERE NEEDED.

## 3. SOIL AMENDMENTS

LIME- AGRICULTURAL GROUND LIMESTONE SHALL BE APPLIED TO ACIDIC SOILS AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A SOIL TEST, LIME SHALL BE APPLIED AT THE RATE OF 100 LB./1,000 SQ. FT OR 2 TONS/AC.

FERTILIZER- FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY A SOIL TEST. IN LIEU OF A 2 SOIL TEST FERTILIZER SHALL BE APPLIED AT A RATE OF 12 LB./1,000 SQ. FT OR 500 LB./AC. OF 10-10-10 OR 12-12-12 ANALYSIS

THE LIME AND FERTILIZER SHALL BE WORKED INTO THE SOIL WITH A DISK HARROW, SPRING-TOOTH HARROW, OR OTHER SUITABLE FIELD IMPLEMENT TO A DEPTH OF 3 INCHES.

4. BEFORE LAYING SOD, THE SURFACE SHALL BE UNIFORMLY GRADED AND CLEARED OF ALL DEBRIS, STONES AND CLODS LARGER THAN 3-IN.

- 1. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURES, THE SOIL SHALL BE LIGHTLY IRRIGATED IMMEDIATELY BEFORE LAYING THE SOD.
- 2. SOD SHALL NOT BE PLACED ON FROZEN SOIL.
- THE FIRST ROW OF SOD SHALL BE LAID IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO AND TIGHTLY WEDGED AGAINST EACH OTHER. LATERAL JOINTS SHALL BE STAGGERED IN A BRICK-LIKE PATTERN. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS THAT WOULD DRY THE ROOTS.
- 4. ON SLOPING AREAS WHERE EROSION MAY BE A PROBLEM, SOD SHALL BE LAID WITH THE LONG EDGE PARALLEL TO THE CONTOUR AND STAGGERED JOINTS. THE SOD SHALL BE SECURED WITH PEGS OR
- AS SODDING IS COMPLETED IN ANY ONE SECTION, THE ENTIRE AREA SHALL BE ROLLED OR TAMPED TO ENSURE SOLID CONTACT OF ROOTS WITH THE SOIL SURFACE. SOD SHALL BE WATERED IMMEDIATELY AFTER ROLLING OR TAMPING UNTIL THE SOD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. THE OPERATIONS OF LAYING TAMPING AND IRRIGATING FOR ANY PIECE OF SOD SHALL BE COMPLETED WITHIN 8

## 1. IN THE ABSENCE OF ADEQUATE RAINFALL, WATERING SHALL BE PERFORMED DAILY OR AS OFTEN AS NECESSARY DURING THE FIRST WEEK WITH SUFFICIENT QUANTITIES TO MAINTAIN MOIST SOIL TO A

MAINTAIN ADEQUATE MOISTURE AND ENSURE ESTABLISHMENT.

- DEPTH OF 4-6 INCHES. 2. AFTER THE FIRST WEEK, SOD SHALL BE WATERED AS NECESSARY TO
- 3. THE FIRST MOWING SHALL NOT BE ATTEMPTED UNTIL SOD IS FIRMLY ROOTED.

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2555 Hartville Rd., Suite B Rootstown, OH 44272

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330-329-2037



Reg. No.: 61709

CLIENT:



1220 WEST SIXTH STREE CLEVELAND, OHIO 44113

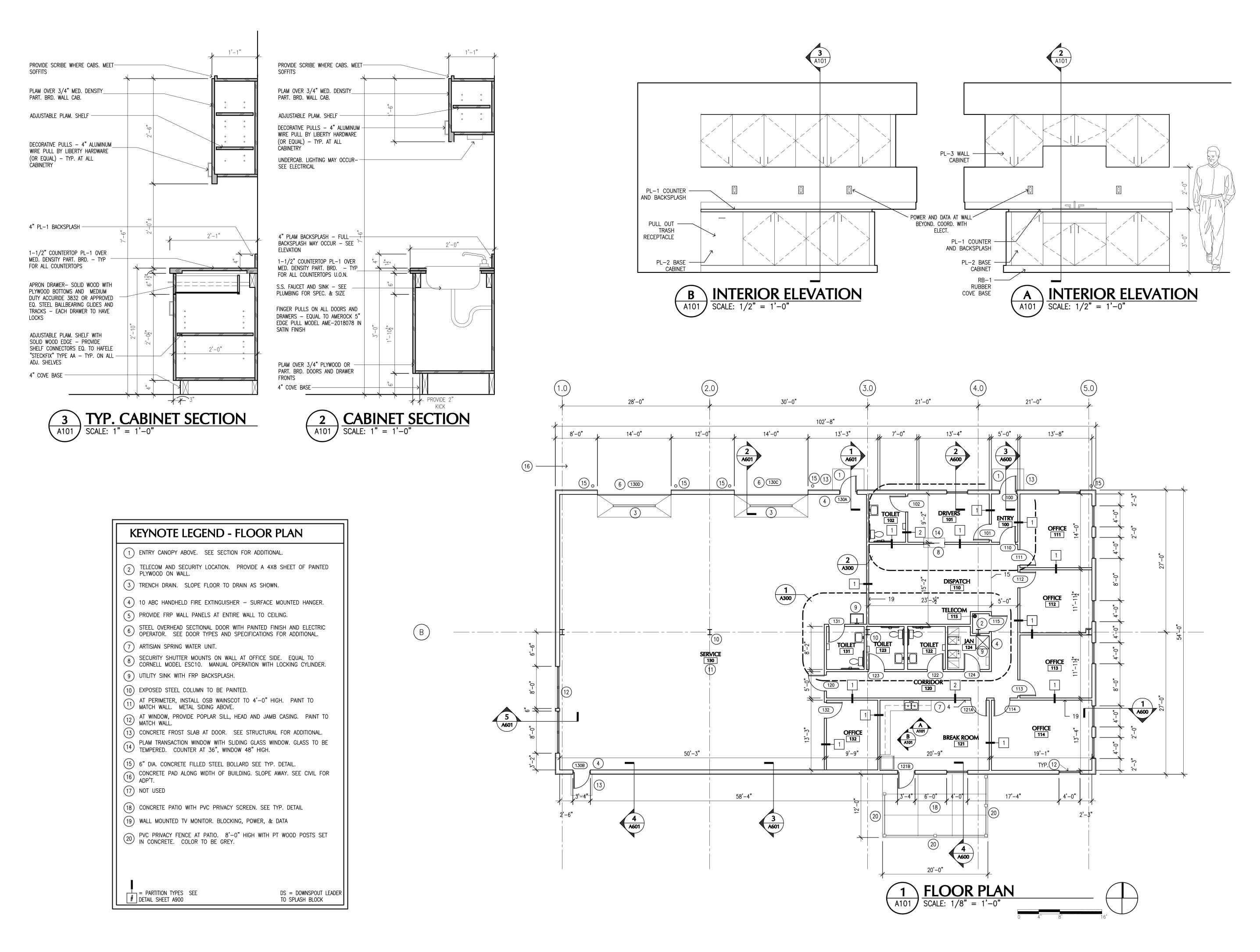
OWNER:

PB EXPRESS INC

3800 VALLEY ROAD CLEVELAND, OH 44109

Issue Date 06-28-2023 07-18-2023 SSO  $\mathbb{Z}$ 

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PRINTS FULL SCALE
ON 24"X36" SHEET

JEFFERY
D.
FOSTER
13339

JEFFERY FOSTER, LICENSE 13339
EXPIRATION DATE: 12/31/23

ESS RANSITION FACILTY AD

PB EXPRES
STAGING AND TRA
3800 VALLEY ROAI
CLEVELAND, OH

LOOR PLAN

PA PROJECT NO. 2023-36
CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION

### ROOF SYSTEM SPECIFICATION: 07 54 23 THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE PART 1 GENERAL PART 2 PRODUCTS 1.1 SECTION INCLUDES 2.1 MANUFACTURERS Thermoplastic Polyolefin Membrane Roofing. Basis of Design: Carlisle SynTec, P. O. Box 7000; Carlisle, PA 17013; Toll Free Tel: 800-4-SYNTEC; Tel: 717-245-7000; Alternate Manufacturers: Johns Manville, Firestone or Versico. Metal Flashinas. 2.2 SCOPE / APPLICATION Roof Insulation. Roof System: Provide a waterproof roof system, capable of withstanding uplift forces 1.2 REFERENCES as specified in the Design Criteria article of this section. American Society of Civil Engineers (ASCE) - ASCE 7 - Minimum Design Loads for Buildings and Membrane Attachment: Fully Adhered Other Structures, Current Revision. Base Flashing: Provide a waterproof, fully adhered base flashing system at all ANSI/SPRI WD-1 "Wind Design Standard for Roofing Assemblies". penetrations, plane transitions and terminations. ASTM International (ASTM): Insulation: Provide a roof insulation system beneath the finish membrane. ASTM C 1289 - Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation ASTM D 41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and 2.3 INSULATION Polyisocyanurate HP-H: Rigid board with fiber reinforced facers on both sides, meeting

ASTM D 412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic or exceeding the requirements of ASTM C 1289. Carlisle HPH. Compressive Strength: 20 psi (138 kPa).

ASTM D 1079 - Standard Terminology Relating to Roofing, Waterproofing, and Bituminous Materials. ASTM D 4263 - Standard Test Method for Indicating Moisture in Concrete by the Plastic ASTM D 4491 - Standard Test Methods for Water Permeability of Geotextiles by Permittivity.

ASTM D 6878 - Standard Specification for Thermoplastic Polyolefin Based Sheet Roofing. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials

International Code Council (ICC): International Building Code (IBC).

National Roofing Contractors Association (NRCA) - Low Slope Roofing and Waterproofing Manual,

Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA) - Architectural Underwriters Laboratories (UL):

TGFU R1306 - "Roofing Systems and Materials Guide". UL-790 - Standard Test Method for Fire Tests of Roof Coverings.

ANSI/ASHRAE/IESNA Standard 9.1 (2007): Energy Standard for Buildings Except Low-Rise Residential

1.3 DESIGN CRITERIA Wind Uplift Performance:

Roof system is designed to withstand wind uplift forces as calculated using the current revision of

Fire Resistance Performance:

Roof system will achieve a UL Class A rating when tested in accordance with UL-790.

Thermal Performance: Roof system will achieve a minimum R value not less than R-25, minimum. Drainage: Provide a roof system with positive drainage where all standing water dissipates within 48

hours after precipitation ends.

Roof system will meet the requirements of all federal, state and local code bodies having

1.4 SUBMITTALS

Product Data: Manufacturer's data sheets on each product to be used, including: Preparation instructions and recommendations.

Storage and handling requirements and recommendations.

Installation methods

Submit approved plan, section, elevation or isometric drawings which detail the appropriate methods for all flashing conditions found on the project.

Coordinate approved drawings with locations found on the Contract Drawings. Selection Samples: For each finish product specified, two complete sets of chips representing manufacturer's full range of available colors, membranes, and thicknesses.

Manufacturer Qualifications: All primary products specified in this section will be supplied by a single manufacturer with a minimum of fifteen (15) years experience.

Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.

Installer must be capable of extending the Manufacturer's Labor and Materials guarantee. Installer must be capable of extending the Manufacturer's No Dollar Limit guarantee.

Mock-Up: Provide a mock-up for evaluation of surface preparation, installation techniques and Finish areas designated by Architect.

Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect. Refinish mock-up area as required to produce acceptable work.

1.6 DELIVERY, STORAGE, AND HANDLING

Store products in manufacturer's unopened packaging until ready for installation. Store and dispose of hazardous materials, and materials contaminated by hazardous materials, in accordance with requirements of local authorities having jurisdiction.

Material Safety Data Sheets (MSDS) must be on location at all times during the transportation, storage and application of materials.

When loading materials onto the roof, the Carlisle Authorized Roofing Applicator must comply with the requirements of the building owner to prevent overloading and possible disturbance to the building

1.1 PROJECT CONDITIONS

A. Proceed with roofing work only when weather conditions are in compliance with the manufacturer's recommended limitations, and when conditions will permit the work to proceed in accordance with the manufacturer's requirements and recommendations.

Proceed with work so new roofing materials are not subject to construction traffic. When necessary, new roof sections shall be protected and inspected upon completion for possible damage. Provide protection, such as 3/4 inch thick plywood, for all roof areas exposed to traffic during

construction. Plywood must be smooth and free of fasteners and splinters. The surface on which the insulation or roofing membrane is to be applied shall be clean, smooth, dry, and free of projections or contaminants that would prevent proper application of or be incompatible with the new installation, such as fins, sharp edges, foreign materials, oil and grease.

New roofing shall be complete and weather tight at the end of the work day.

Contaminants such as grease, fats and oils shall not be allowed to come in direct contact with

At project closeout, provide to Owner or Owners Representative an executed copy of the manufacturer's warranty. Manufacturer's standard form, without monetary limitation, in which manufacturer agrees to repair or replace components of membrane roofing system that fail in materials or workmanship within specified warranty period. Failure includes roof leaks.

Special warranty includes roofing membrane, base flashings, edge metal / fascia, roofing accessories, and other components of membrane roofing system.

Warranty Period: 20 years from date of Substantial Completion.

Maximum wind speed coverage: 72 mph measured 10 meters above ground.

Warranty Period: Two years from date of Substantial Completion.

Special Project Warranty: Submit roofing Installer's warranty in writing signed by installer, covering Work of this Section, including all components of gutter system, metal terminations, in addition to membrane roofing system such as roofing membrane, base flashing, roof insulation, fasteners, cover boards, substrate boards, roof pavers, and walkway products, for the following warranty period:

Density: 2 lb per cubic foot (24 kg/cu m) minimum.

SecurShield HD Polyiso: Rigid board with coated glass fiber mat facers on both sides, meeting or exceeding the requirements of ASTM C 1289.

Compressive Strength: 100psi (690 kPa). R-value: 25

Thickness: 4½ inch minimum

2.4 INSULATION ADHESIVE

Sure-Seal FAST 100 or 100 LV Adhesive: A spray or extruded applied, two-component polyurethane, low-rise expanding foam adhesive used for attaching approved insulations to compatible substrates (concrete, cellular lightweight insulating concrete, gypsum, cementitious wood fiber, wood or steel) or existing smooth or gravel surfaced BUR, modified bitumen or

Sure-Seal FAST Catalyst: Added to FAST Adhesive (Part B Side) to quicken adhesive

Sure-Seal FAST Dual Cartridge Adhesive: A two-component, polyurethane construction grade, low-rise expanding adhesive designed for bonding insulation to various substrates using a portable applicator.

FAST Box Set: A two-component, polyurethane construction grade, low-rise expanding adhesive designed for bonding insulation to various substrates using a portable applicator. FAST Bag in a Box: a two-component, polyurethane construction grade, low-rise

expanding adhesive designed for bonding insulation to various substrates, packaged for use OlyBond 500 BA - A two-component, polyurethane, low-rise expanding adhesive used to bond insulation to various substrates using a mechanical dispenser system.

OlyBond Spot Shot - A two-component, polyurethane construction grade, low-rise expanding adhesive designed for bonding insulation to various substrates using a portable

One-Step: A two-component, polyurethane construction grade, low-rise expanding adhesive designed for bonding insulation to various substrates using a portable applicator.

2.5 THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE

Sure-Weld Membrane: Color: Tan

Membrane Thickness: 60 mil nominal.

Thickness over Scrim: 0.020 inches. Breaking Strength (ASTM D 751): 250 lbf/in minimum.

Tear Resistance (ASTM D 751): 55 lbf/in minimum. Elongation (ASTM D 751): 25 percent.

Field Sheet Dimensions: Width: 12 feet maximum.

Length: 100 feet maximum. 2.6 FLASHING ACCESSORIES

TPO T-Joint Covers: Injection molded 60 mil thick TPO formed into a 4.5 inch diameter circle used to seal step-offs at splice intersections. Color to match membrane. Special colors require custom fabrication process.

TPO Curb Wrap Corners: Pre-fabricated corner flashings made from 45 mil thick reinforced Sure-Weld membrane. 6 inch (152mm) wide base flange and a 12 inch (305mm) overall height. Sizes available to fit curbs up to 6 foot by 6 foot (1828 x 1828 mm) in size. Color to match membrane. Gray, tan and special colors require custom fabrication

Molded Pipe Seals: A pre-molded flashing and clamping ring used for pipe penetrations. Available for 0.75 inch to 8 inch (19 - 203.2mm) diameter pipes. Color to match membrane. Special colors not available.

Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FMG 4470, designed for fastening membrane to substrate, and acceptable to membrane roofing system manufacturer.

Miscellaneous Accessories: Provide bonding adhesive, lap sealant, water cutoff mastic, metal termination bars, pourable sealers, preformed cone and sheet flashings, preformed inside and outside corner sheet flashings, T-joint covers, in-seam sealants, termination reglets, cover strips, and other accessories.

PART 3 EXECUTION

3.1 EXAMINATION Do not begin installation until substrates have been properly prepared. B. If substrate preparation is the responsibility of another installer, notify Architect of

unsatisfactory preparation before proceeding.

A. Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions

Do not commence work until all other work trades have completed jobs that require them to traverse the deck on foot or with equipment.

A vapor retarder / temporary roof (Carlisle 725 TR Air & Vapor Barrier/Temporary Roof) is to be applied to protect the inside of the structure prior to the roof system

3.3 INSULATION - SYSTEM DESIGN

Base Layer: Type: Polyisocyanurate.

Thickness: 2½ inches. Attachment Method: Mechanical Top Layer: Type: Polyisocyanurate.

2. Thickness: 2½ inches. Attachment Method: Adhered.

Tapered System: Type: Polyisocyanurate. Field Slope: Per Roof Plan. Attachment Method: Adhered. 3.4 INSULATION PLACEMENT

Install insulation or membrane underlayment in multiple layers over the substrate with boards butted tightly together with no joints or gaps greater than 1/4 inch (6 mm). Stagger joints both horizontally and vertically if multiple layers are provided.

Secure insulation to the substrate with the required mechanical fasteners or insulation adhesive in accordance with the manufacturer's current application guidelines.

Do not install wet, damaged or warped insulation boards. Stagger joints in one direction unless joints are to be taped. Install insulation boards snug. Gaps between board joints shall not exceed 1/4 inch (6 mm). Fill all gaps in excess of 1/4 inch (6 mm) with same insulation material.

Wood nailers must be at least 3 1/2 inches (89 mm) wide or 1 inch (25 mm) wider than adjacent metal flange. Thickness must equal that of insulation but not less than 1 inch (25 mm) thickness. Mitter and fill the edges of the insulation boards at ridges, valleys and other changes

in plane to prevent open joints or irregular surfaces. Avoid breaking or crushing of the insulation at the corners. Do not install any more insulation than will be completely waterproofed each day.

3.5 INSULATION ATTACHMENT Securely attach insulation to the roof deck for Adhered or Mechanically Fastened Roofing Systems. Attachment must have been successfully tested to meet or exceed the calculated uplift pressure required by the International Building Code (ASCE-7) or ANSI/SPRI

Install insulation layers, maximum 4 feet by 4 feet (1220 mm by 1220 mm), applied with adhesive, coverage rate as necessary to achieve the specified attachment and uplift rating. Press each board firmly into place after adhesive develops strings when touched, typically 1-1/2 to 2 minutes after adhesive was applied, and roll with a weighted roller. Add temporary weight and use relief cuts to ensure boards are well adhered. Stagger the joints of additional layers by a minimum of 6 inches (152 mm).

MEMBRANE PLACEMENT AND ATTACHMENT (Sure-Weld Fully Adhered)

Position Sure-Weld membrane over the acceptable substrate. Fold membrane sheet back lengthwise so half the underside of the membrane is exposed.

Apply Sure-Weld Bonding Adhesive in accordance with the manufacturer's published instructions, to the exposed underside of the membrane and the corresponding substrate area. Do not apply Bonding Adhesive along the splice edge of the membrane to be hot air welded over the adjoining sheet. Allow the adhesive to dry until it is tacky but will not string or stick to a dry finger touch.

Roll the coated membrane into the coated substrate while avoiding wrinkles. Brush

down the bonded section of the membrane sheet immediately after rolling the membrane into the adhesive with a soft bristle push broom to achieve maximum contact. Fold back the unbonded half of the sheet lengthwise and repeat the bonding

Position adjoining sheets to allow a minimum overlap of 2 inches. Hot-air weld the Sure-Weld membrane sheets using the Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's hot air welding procedures. Carlisle recommends a test weld sample be made from a piece of scrap TPO to eliminate the need to remove a section from a completed seam. At all splice intersections, roll the seam with a silicone roller to ensure a continuous hot air welded

Continue to install adjoining membrane sheets in the same manner, overlapping edges a minimum of 2 inches and complete the bonding procedures as stated previously.

Hot-air weld membrane using an Automatic Hot Air Welding Machine or Hot Air Hand Welder in accordance with the manufacturer's current guidelines. At all splice intersections, roll the seam with a silicone roller to ensure a continuous hot air welded seam.

Probe all seams once the hot air welds have thoroughly cooled (approximately 30 minutes)

Overlay all splice intersections with Sure-Weld T-Joint Cover.

Repair all seam deficiencies the same day they are discovered.

Apply Cut Edge Sealant on all cut edges of reinforced membrane (where the scrim reinforcement is exposed) after seam probing is complete. Cut Edge Sealant is not required on vertical splices.

3.8 FLASHING

Flashing of parapets, curbs, expansion joints and other parts of the roof must be performed using Sure-Weld reinforced membrane or prefabricated accessories. Sure-Wel non-reinforced membrane may be used for flashing pipe penetrations. Sealant Pockets, and scuppers, as well as inside and outside corners, when the use of pre-molded or prefabricated accessories is not feasible.

Follow manufacturer's typical flashing procedures for all wall, curb, and penetration flashing including metal edging/coping and roof drain applications.

Install walkways at all traffic concentration points (such as roof hatches, access doors, rooftop ladders, etc.) and all locations as identified on the Contract Drawings. B. Hot-air weld walkway pads to the membrane in accordance with the manufacturer's

current application guidelines.

On phased roofing, when the completion of flashings and terminations is not achieved by the end of the work day, a daily seal must be performed to temporarily close the membrane to prevent water infiltration.

Complete an acceptable membrane seal in accordance with the manufacturer's

Perform daily clean-up to collect all wrappings, empty containers, paper, and other debris from the project site. Upon completion, all debris must be disposed of in a legally Prior to the manufacturer's inspection for warranty, the applicator must perform a pre-inspection to review all work and to verify all flashing has been completed as well as the application of all caulking. 3.12

> Protect installed products until completion of project. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION 07 54 23

**GENERAL ROOFING NOTES** 

A. PROVIDE MANUFACTURERS STANDARD ROOF WALKWAY PADS IN LOCATIONS SHOWN ON DRAWING.

B. ALL DETAILS SHALL BE PER THE MANUFACTURERS STANDARD DETAILS TO PROVIDE FOR FULL WARRANTY & GUARANTEE AS SPECIFIED.

C. REFER TO PROJECT MANUAL FOR SPECIFICATIONS REGARDING THE ROOF SYSTEM & ITS INSTALLATION

D. POSITIVE SLOPE TO DRAINAGE MUST OCCUR AT ALL LOCATIONS OF NEW ROOFING. PROVIDE TYPICAL FLAT ROOF SLOPE OF 1/4" PER FOOT ALL FLASHINGS, CURBS, TERMINATIONS AND PENETRATION

PLUMBING AND ELECTRICAL TRADES. COMPLETE AND TIE IN ALL CURBS, FLASHING, ETC. FOR WATER TIGHT CONDITION. CONTRACTOR TO MAINTAIN POSITIVE ROOF DRAINAGE AND

LOCATIONS AND DETAILS ARE TO BE COORDINATED WITH HVAC,

WEATHERTIGHTNESS OF ROOF AT ALL TIMES. THIS INCLUDES BUT IS NOT LIMITED TO NIGHTS, WEEKENDS AND HOLIDAYS. G. ALL NEW ROOFING SHALL BE PROTECTED WHILE OTHER WORK BY OTHER TRADES IS BEING COMPLETED. ANY DAMAGE TO THE

MEMBRANE AS A RESULT OF ANOTHER CONTRACTORS WORK SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE ALL NECESSARY INSPECTIONS BY THE MANUFACTURER H. TO CERTIFY THE WARRANTY.

H.P. = HIGH POINT **L.P.** = LOW POINT DS= DOWNSPOUT LEADER

## **KEYNOTE LEGEND - ROOF PLAN**

MEMBRANE TO EXTEND UP AND OVER WALL FRAMING. FRAMING TO ACCOMMODATE CHANGES IN ROOF TRUSS SLOPE.

METAL ROOF EDGE WITH TREATED WOOD BLOCKING. SEE 2) DETAIL SECTIONS FOR ADDITIONAL. COORDINATE FINISH LOCATIONS WITH EXTERIOR ELEVATIONS.

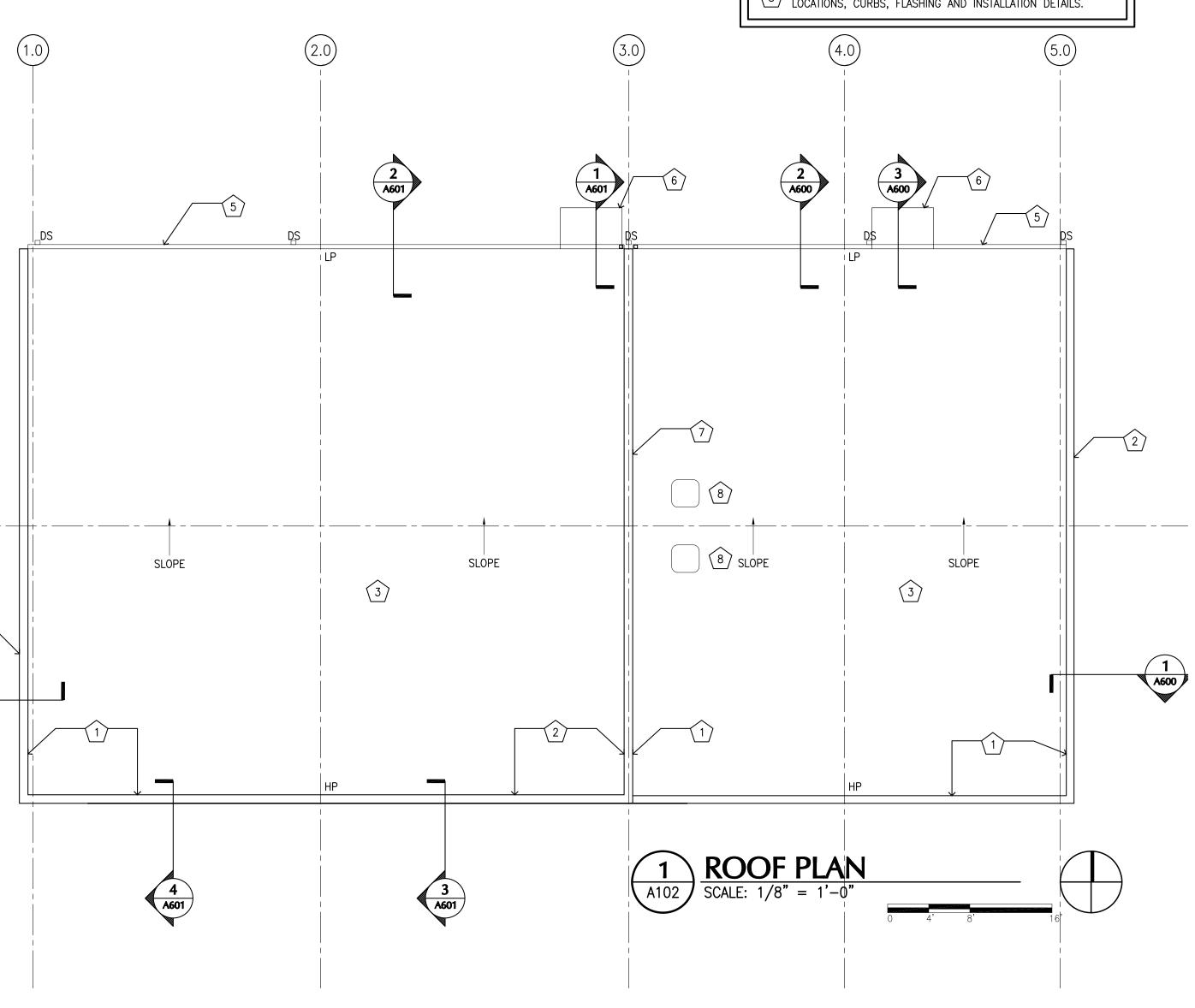
TPO MEMBRANE OVER 4 1/2" MINIMUM FLAT RIGID INSULATION, SLOPE STRUCTURE A MIN. OF  $\frac{1}{4}$ " PER 1'-0".

MEMBRANE ROOF OVER TAPERED INSULATION CRICKET OR ∸/ SADDLE (¼" PER FOOT), MINIMUM THICKNESS 3/4".

6" CONTINUOUS FLANGE BACK GUTTER. FINISH TO MATCH SIDING. DOWNSPOUT LEADERS TO MATCH. 6 METAL ROOFING AT ENTRY CANOPY. GUTTER & DOWNSPOUT TO GRADE.

(7) METAL SIDING ON SIDEWALL ABOVE ROOF. SEE ELEVATION

8 ROOF MOUNTED HVAC EQUIPMENT. COORDINATE ALL LOCATIONS, CURBS, FLASHING AND INSTALLATION DETAILS.



PRINTS FULL SCALE **ON 24"X36" SHEET** E OF **JEFFERY FOSTER** 13339 **JEFFERY FOSTER, LICENSE 13339 EXPIRATION DATE: 12/31/23** 

**ISSUE DATE:** 

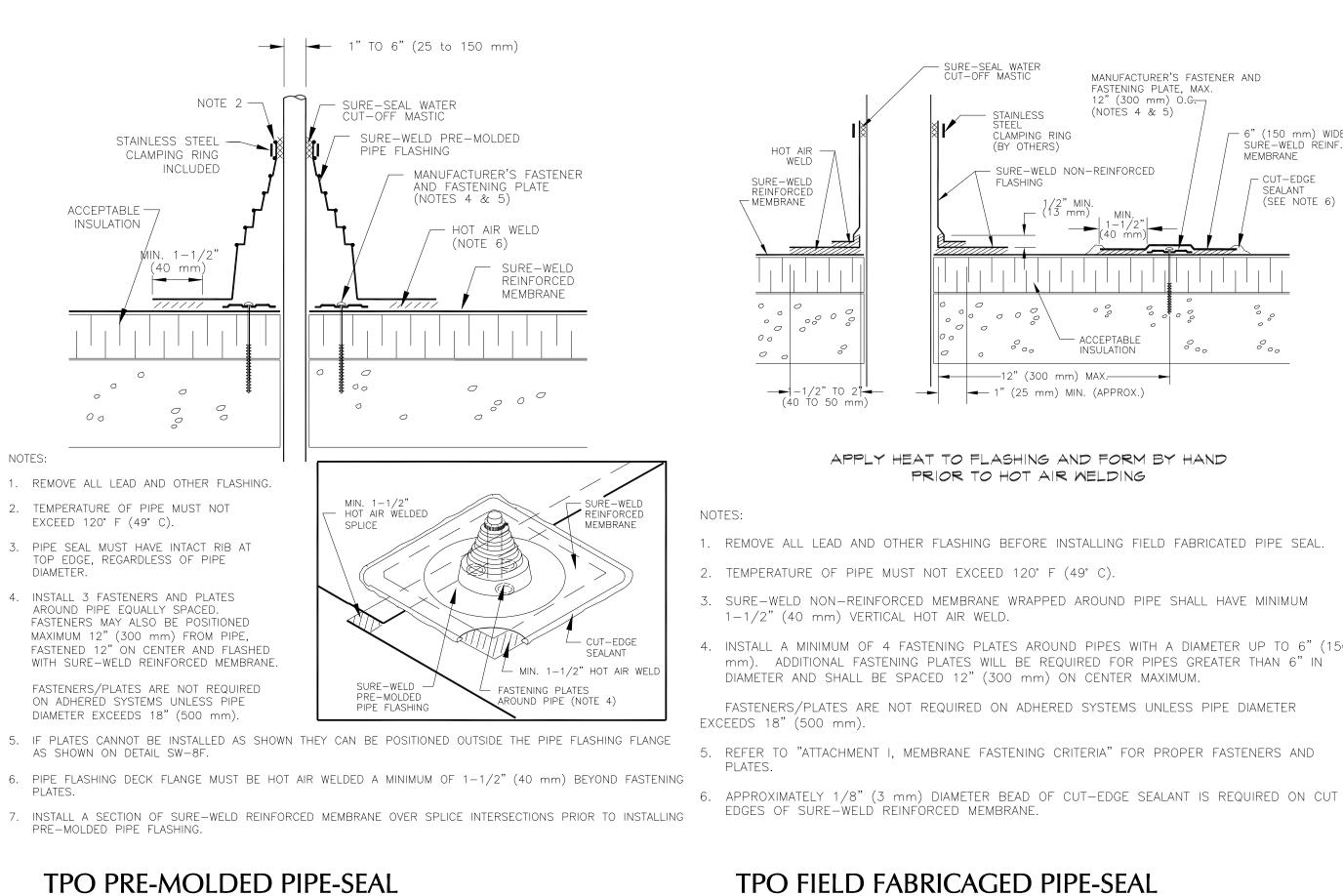
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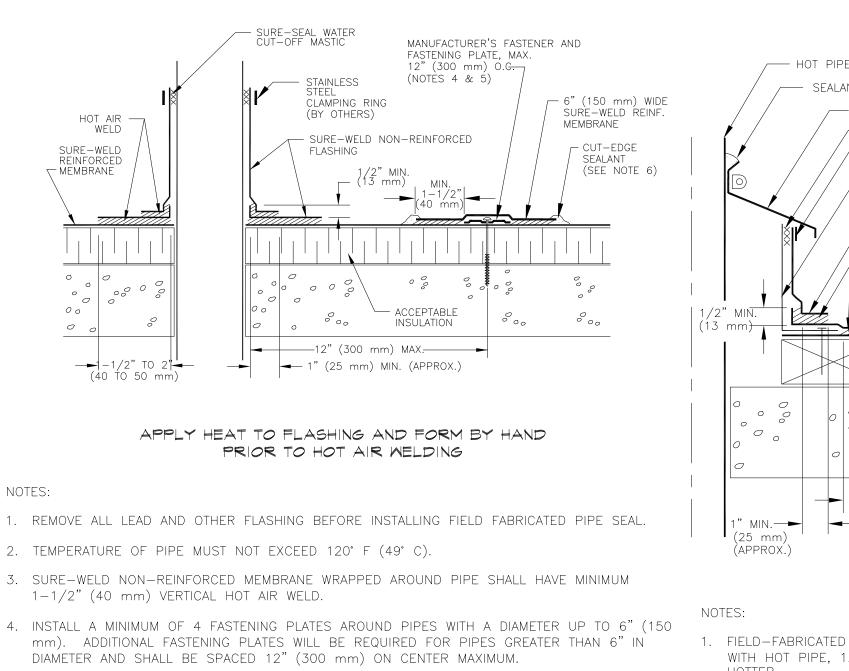
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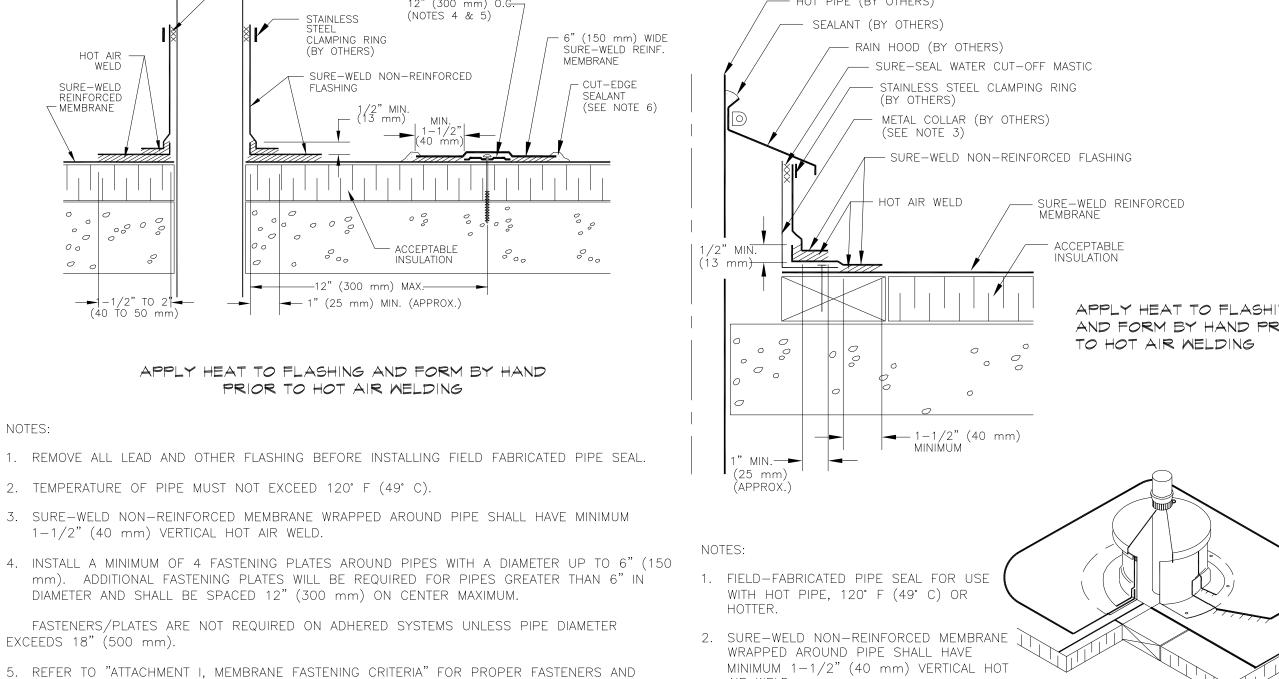
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PA PROJECT NO. 2023-36 CURRENT DATE: 07.18.23

**PERMIT & CONSTRUCTION** 





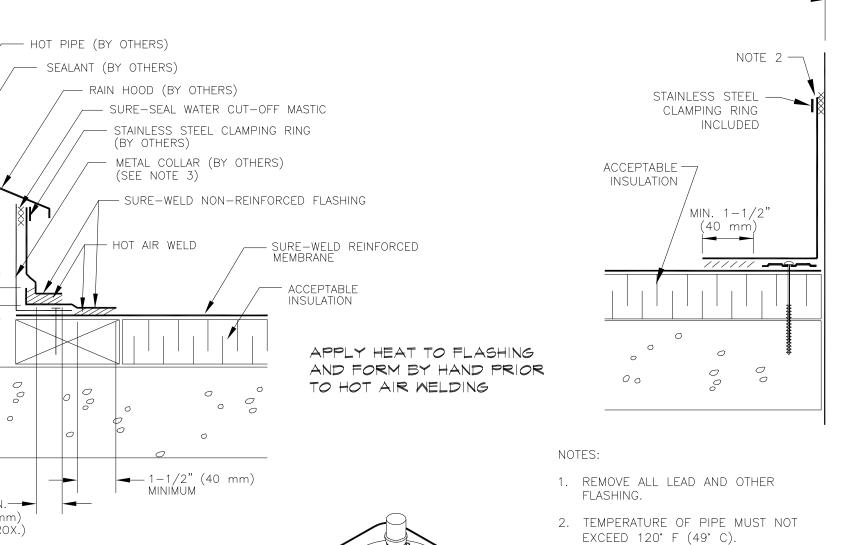


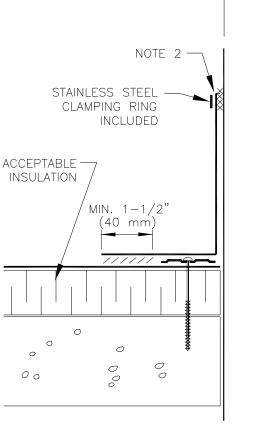
AIR WELD.

NOT EXCEED 120° F.

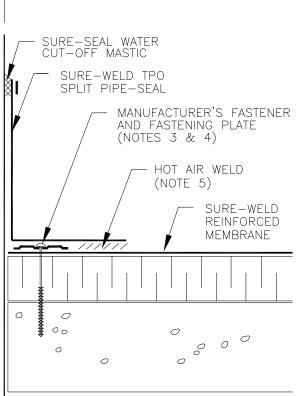
TEMPERATURE OF METAL COLLAR MUST

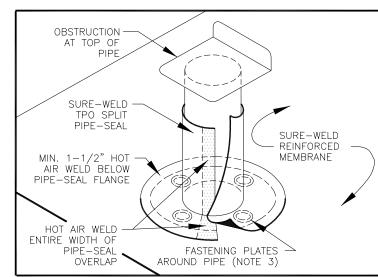
TPO HOT PIPE-SEAL





## 1" TO 6" (25 to 150 mm) SURE—SEAL WATER CUT—OFF MASTIC / SURE-WELD TPO SPLIT PIPE-SEAL AND FASTENING PLATE (NOTES 3 & 4) - HOT AIR WELD (NOTE 5)





- 4. IF PLATES CANNOT BE INSTALLED AS SHOWN THEY CAN BE POSITIONED OUTSIDE THE PIPE FLASHING
- 5. PIPE FLASHING DECK FLANGE MUST BE HOT AIR WELDED A MINIMUM OF 1-1/2" (40 mm) BEYOND FASTENING PLATES.

## TPO SPLIT PIPE-SEAL

3. INSTALL 4 FASTENERS AND PLATES

AROUND PIPE EQUALLY SPACED.

WITH SURE-WELD REINFORCED

FASTENERS/PLATES ARE NOT

REQUIRED ON ADHERED SYSTEMS

UNLESS PIPE DIAMETER EXCEEDS 18"

FLANGE AS SHOWN ON DETAIL SW-8F

MEMBRANE.

FASTENERS MAY ALSO BE POSITIONED

MAXIMUM 12" (300 mm) FROM PIPE,

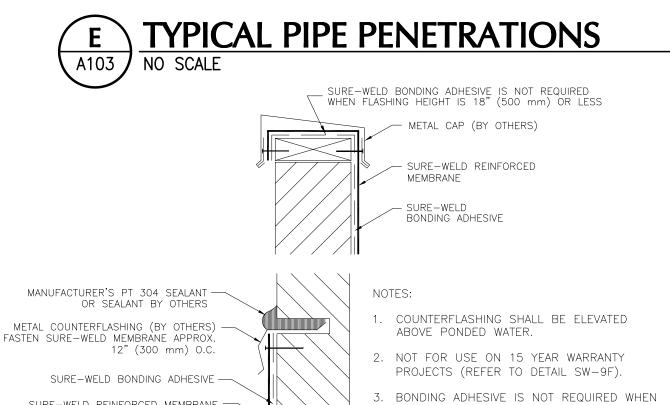
FASTENED 12" ON CENTER AND FLASHED



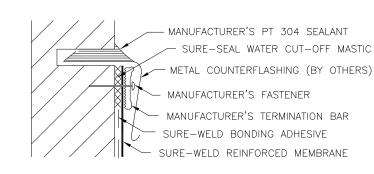
EDGES OF SURE-WELD REINFORCED MEMBRANE.

PLATES.





SURE-WELD REINFORCED MEMBRANE -

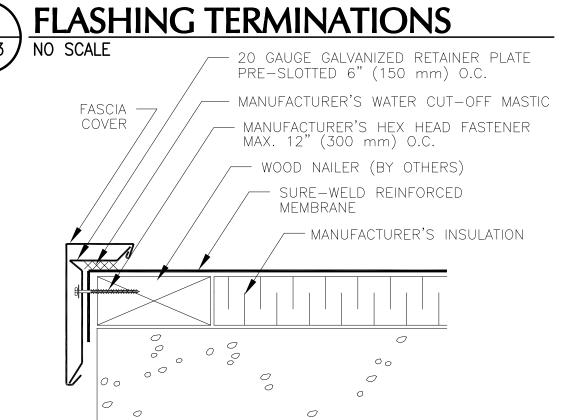


FLASHING HEIGHT IS 12" (300 mm) OR

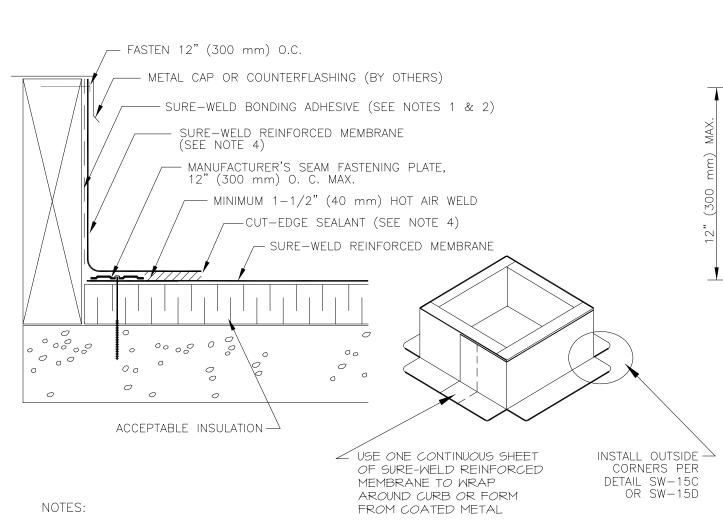
1. APPLY ON HARD SMOOTH SURFACE ONLY; NOT FOR USE ON WOOD.

2. DO NOT WRAP COMPRESSION TERMINATION AROUND CORNERS.

3. FASTENERS OF METAL BAR MUST PROVIDE CONSTANT COMPRESSION ON WATER CUT-OFF



**TYPICAL METAL EDGE** 



1. BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING HEIGHT IS 12" (300 mm) OR LESS AND MEMBRANE IS FASTENED "AS SHOWN" AT TOP OF CURB.

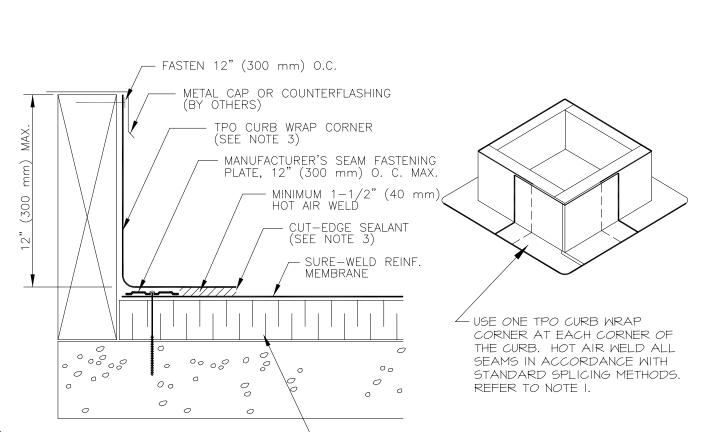
2. WHEN MANUFACTURER'S TERMINATION BAR IS USED BENEATH THE COUNTERFLASHING, BONDING ADHESIVE CAN BE ELIMINATED WHEN THE FLASHING HEIGHT IS 18" (500 mm) OR LESS.

3. FLASHING MEMBRANE FASTENED APPROXIMATELY 12" ON CENTER. IF FASTENER PENETRATES METAL COUNTERFLASHING, USE NEOPRENE WASHER OR APPLY WATER CUT-OFF MASTIC UNDER COUNTERFLASHING OR CAULK FASTENER HEAD.

4. APPROXIMATELY 1/8" (3 mm) BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF SURE-WELD REINFORCED MEMBRANE.

TYPICAL CURB FLASHINGS

5. REFER TO SPECIFICATION FOR ACCEPTABLE MANUFACTURER'S FASTENERS AND PLATES. 6. FOR CORNER FLASHING, REFER TO APPLICABLE SW-15 DETAIL.



LIMITED TO 12" (300 mm) MAXIMUM FLASHING HEIGHT (CUSTOM SIZES AVAILABLE - HEIGHT AND OVERALL LENGTH)

ACCEPTABLE INSULATION —

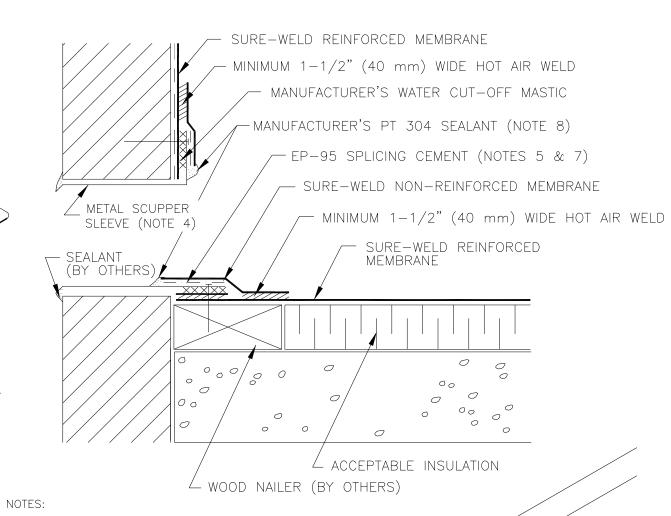
## NOTES:

1. FOUR (4) TPO CURB WRAP CORNERS WILL COMPLETELY FLASH A MAXIMUM CURB SIZE OF 6' X 6' (1.8 X 1.8 m). FOR LARGER CURBS USE THE TPO CURB WRAP CORNERS IN CONJUNCTION WITH ADDITIONAL SECTIONS OF SURE-WELD TPO MEMBRANE.

2. FLASHING MEMBRANE FASTENED APPROXIMATELY 12" ON CENTER. IF FASTENER PENETRATES METAL COUNTERFLASHING, USE NEOPRENE WASHER OR APPLY WATER CUT-OFF MASTIC UNDER COUNTERFLASHING OR CAULK FASTENER HEAD.

3. APPROXIMATELY 1/8" (3 mm) BEAD OF CUT-EDGE SEALANT IS REQUIRED ON THE CUT EDGES OF THE TPO FIELD WRAP CORNER.

4. REFER TO SPECIFICATION FOR ACCEPTABLE MANUFACTURER'S FASTENERS AND PLATES.



1. TREATED WOOD NAILER MUST EXTEND PAST TOTAL WIDTH OF DECK

2. INSTALL WALL FLASHING PRIOR TO SCUPPER INSTALLATION.

3. DISCONTINUE FASTENING PLATES AT SCUPPER OPENING AS SHOWN. 4. METAL SCUPPER BOX MUST HAVE CONTINUOUS SIDES; METAL FLANGE MUST BE CONTINUOUS WITH ROUNDED CORNERS.

5. PRIOR TO APPLYING EP-95 SPLICING CEMENT, CLEAN METAL SCUPPER SLEEVE WITH WEATHERED MEMBRANE CLEANER OR SPLICE CLEANER.

6. WATER CUT-OFF MASTIC UNDER SCUPPER FLANGE MUST BE UNDER CONSTANT COMPRESSION.

7. MINIMUM 2" (50 mm) SPLICE FROM NAIL HEAD.

8. PT 304 SEALANT IS REQUIRED AT FLASHING EDGE ON SCUPPER EDGE. MANUFACTURER'S HP-250 PRIMER MUST BE USED TO PREPARE SURFACES PRIOR TO APPLYING PT 304 SEALANT.

TYPICAL SCUPPER

**ISSUE DATE:** 

PRINTS FULL SCALE

**ON 24"X36" SHEET** 

TE OF

**JEFFERY** 

FOSTER 13339

JEFFERY FOSTER, LICENSE 13339

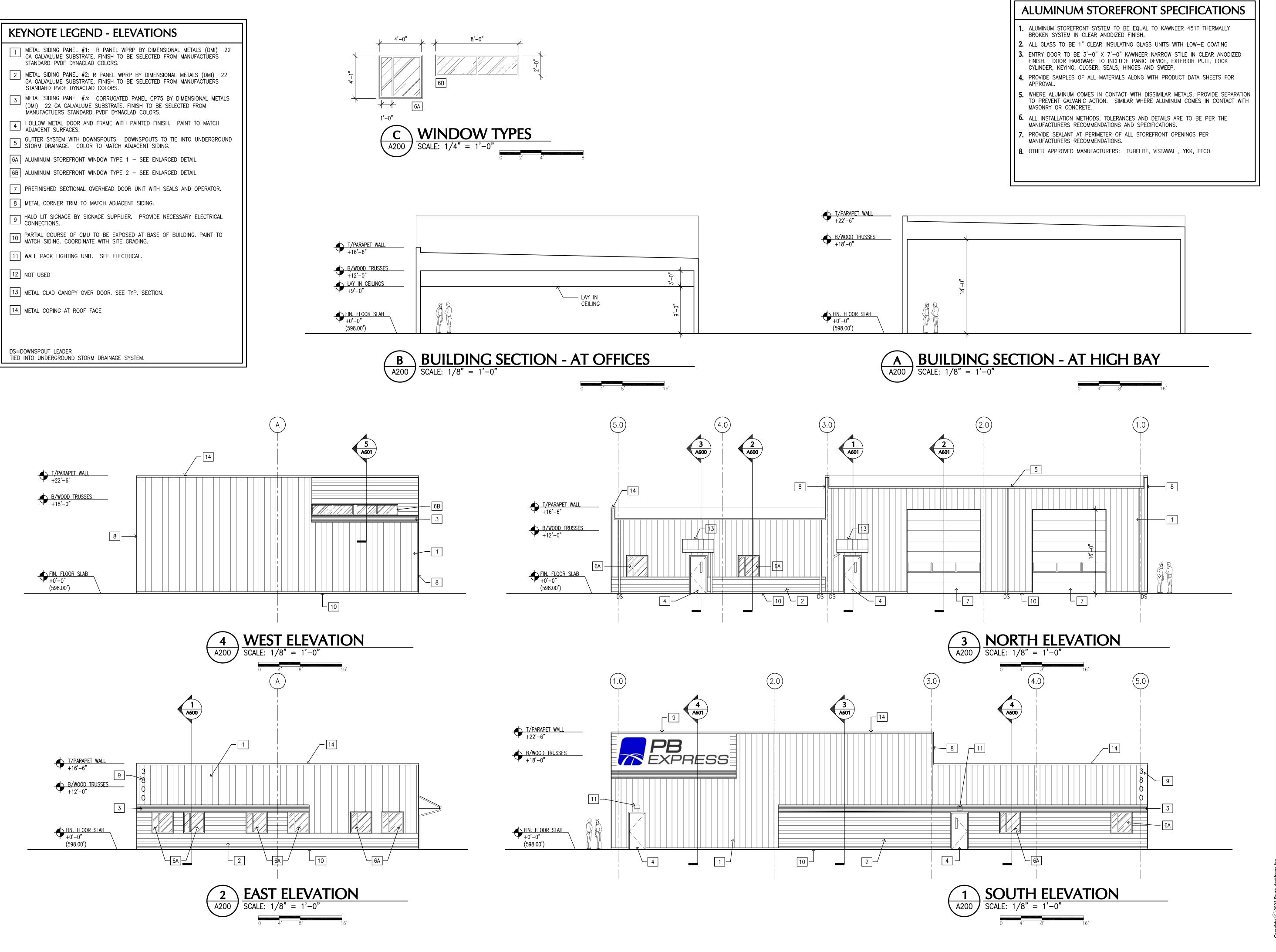
EXPIRATION DATE: 12/31/23

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PA PROJECT NO. 2023-36 CURRENT DATE: 07.18.23 PERMIT & CONSTRUCTION



PRINTS FILL SCALE

PRINTS FULL SCALE ON 24"X36" SHEET

JEFFERY
D.
FOSTER
13339

JEFFERY FOSTER, LICENSE 13339 EXPIRATION DATE: 12/31/23

PRESS IND TRANSITION FACILTY

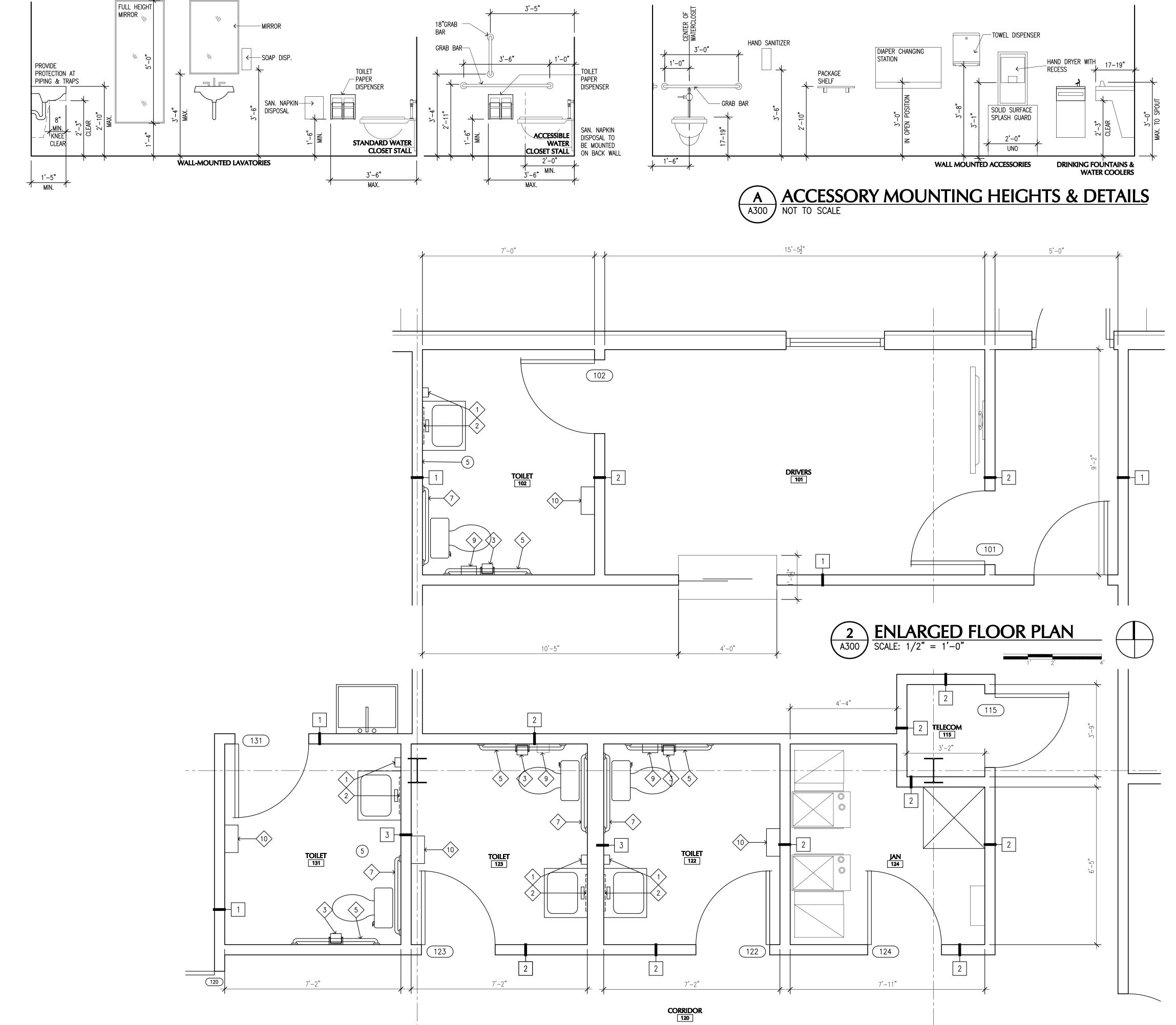
EXTERIOR ELEVATIONS & BUILDING SECTIONS

PA PROJECT NO.
CURRENT DATE:

A200

2023-36

PERMIT & CONSTRUCTION
DOCUMENTS



PROVIDE SOLID BLOCKING AT ALL WALL MTD ITEMS

PROVIDED BY OWNER, INSTALLED

BY CONTRACTOR

18"W. x 36"H.

#1 QUALITY, † GLASS MIRROR 24"X60"H. VERIFY MOUNTING ELECTROLYTICALLY COPPER METHOD IN FIELD.

BOBRICK B-5806.99 X42" PROVIDE BLOCKING IN WALL

BOBRICK B-5806.99 X36" PROVIDE BLOCKING IN WALL

PROVIDED BY OWNER &

INSTALLED BY CONTRACTOR

PROVIDE BLOCKING IN WALL

SURFACE MOUNTED

PROVIDED BY OWNER &

INSTALLED BY CONTRACTOR

**TOILET ACCESSORY SCHEDULE** 

PROVIDED BY OWNER,

INSTALLED BY CONTRACTOR.

#1 QUALITY, ½" GLASS
MIRROR ELECTROLYTIC
COPPER PLATED WITH S.S.
FRAME AT ALL SIDES

PROVIDED BY OWNER &

INSTALLED BY CONTRACTOR

PLATED WITH S.S. FRAME AT

BOBRICK B-5806 X18"

BOBRICK B-254

PROVIDED BY OWNER &

INSTALLED BY CONTRACTOR

ALL SIDES.

WALL MTD. SOAP DISPENSER

2 LAVATORY MIRROR

TOILET TISSUE DISPENSER

FULL HEIGHT WALL MIRROR

5 42" GRAB RAIL

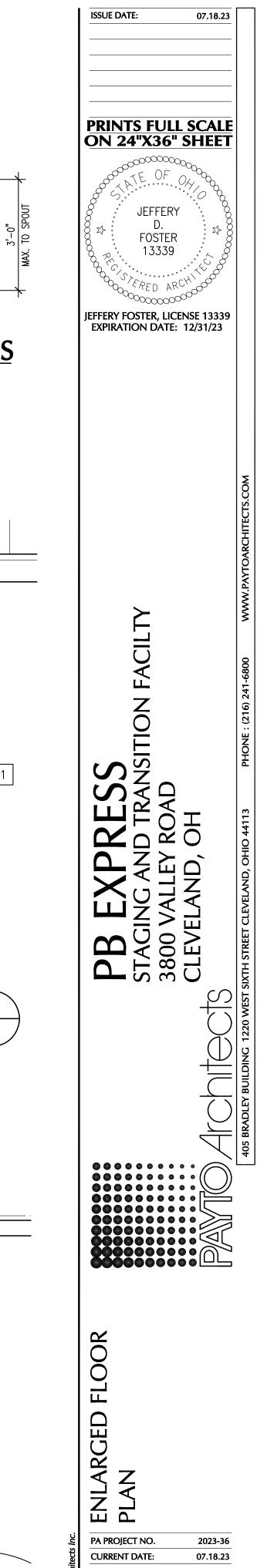
6 18" GRAB BAR

(7) 36" GRAB RAIL

9 SANITARY WASTE DISPOSAL

10 PAPER TOWEL DISPENSER

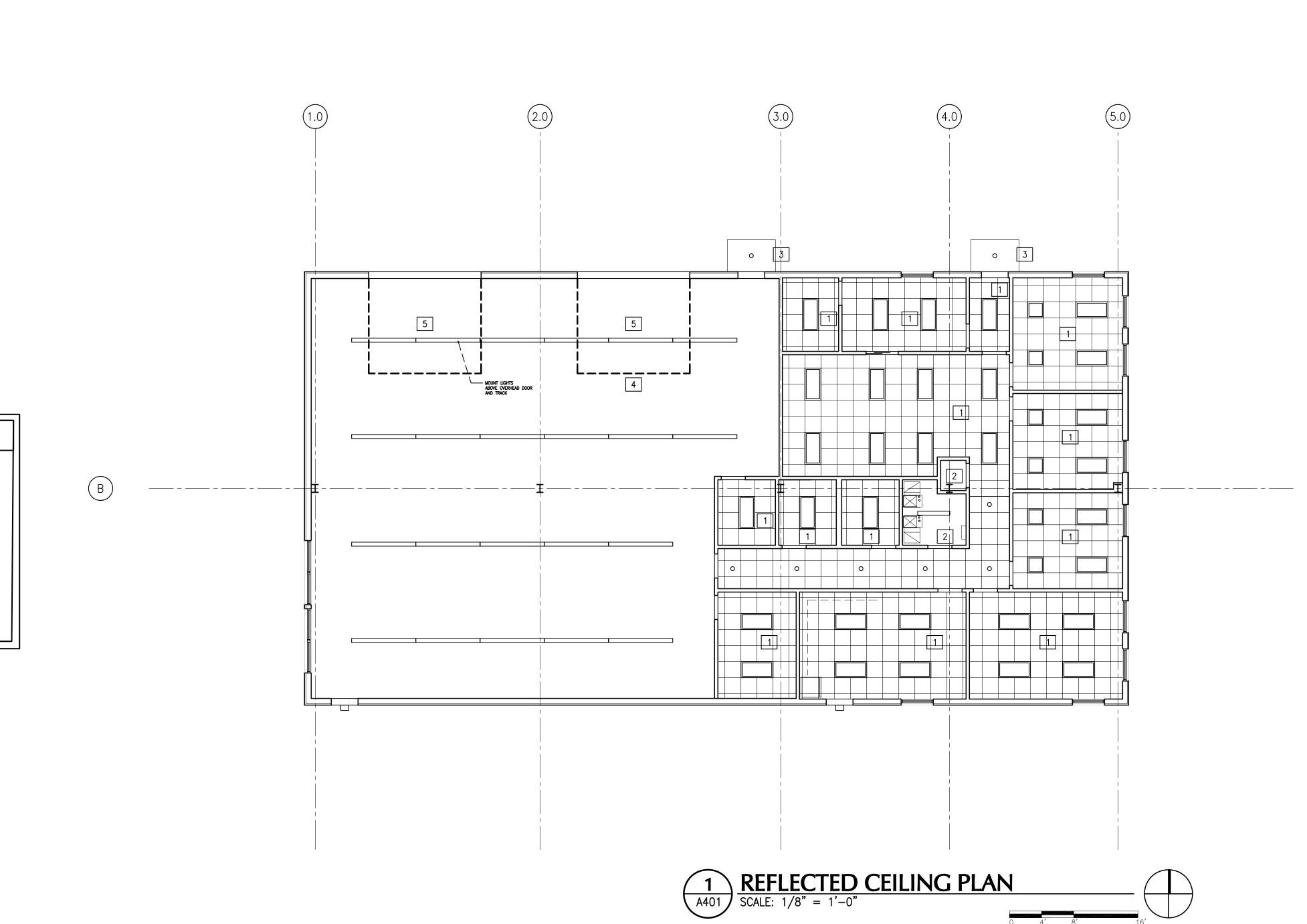
8 NOT USED

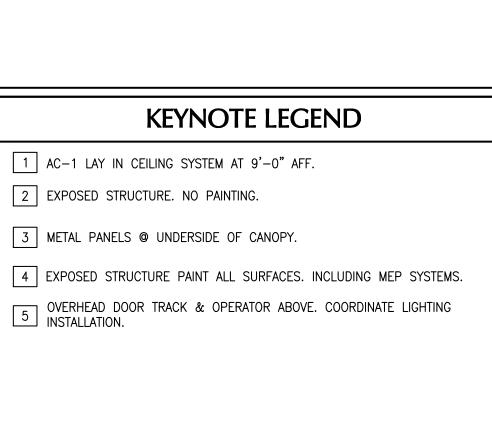


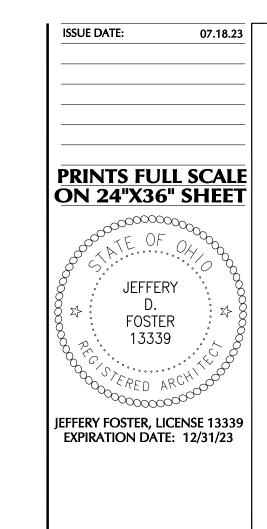
**A300** 

PERMIT & CONSTRUCTION
DOCUMENTS

SCALE: 1/2" = 1'-0"







PB EXPRESS
STAGING AND TRANSITION FA
3800 VALLEY ROAD
CLEVELAND, OH

Architects Inc.

REFLECTED CEILING

Activities inc.

REFLECTED CEILING

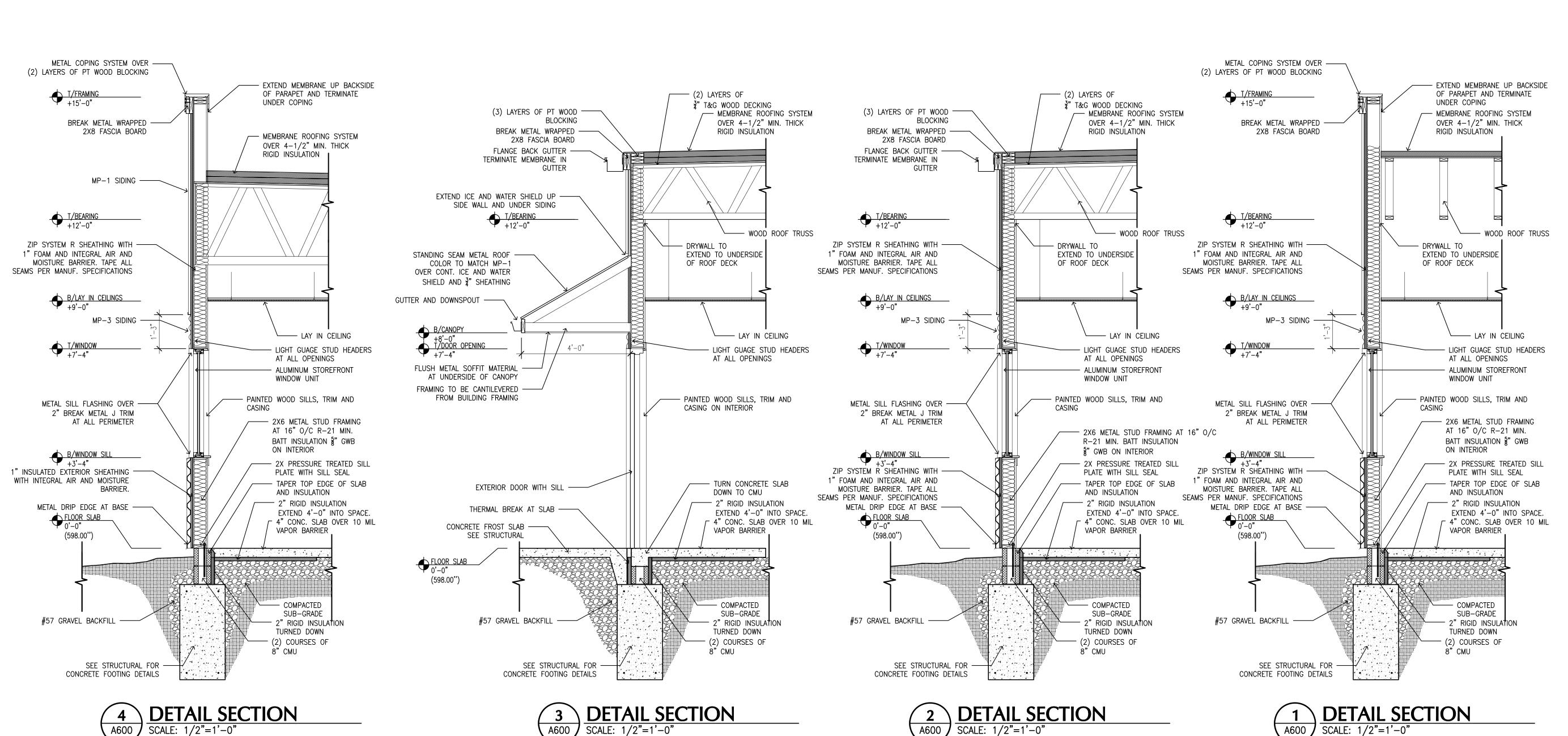
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Output

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PAPROJECT NO. 2023-36
CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION
DOCUMENTS



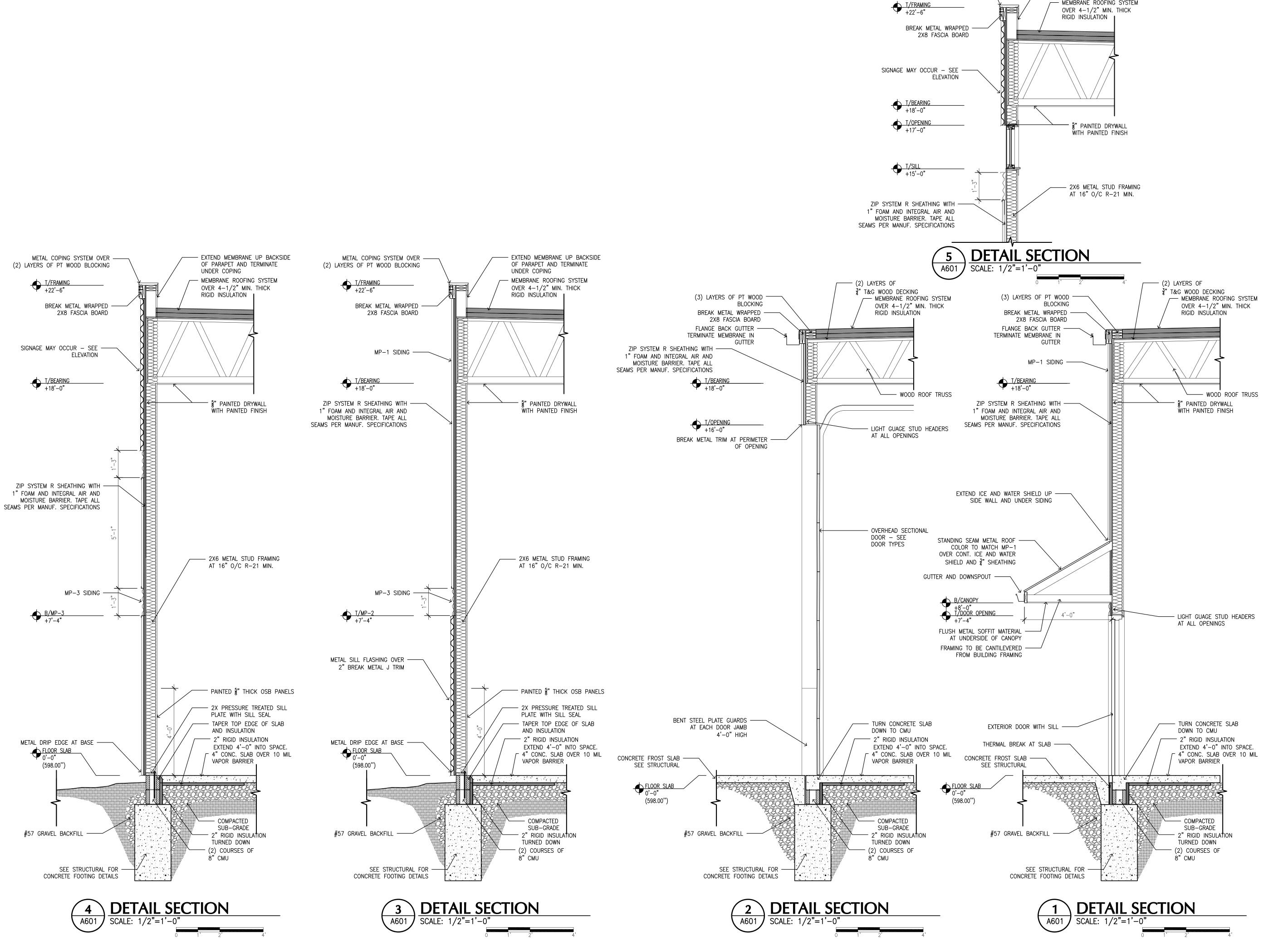


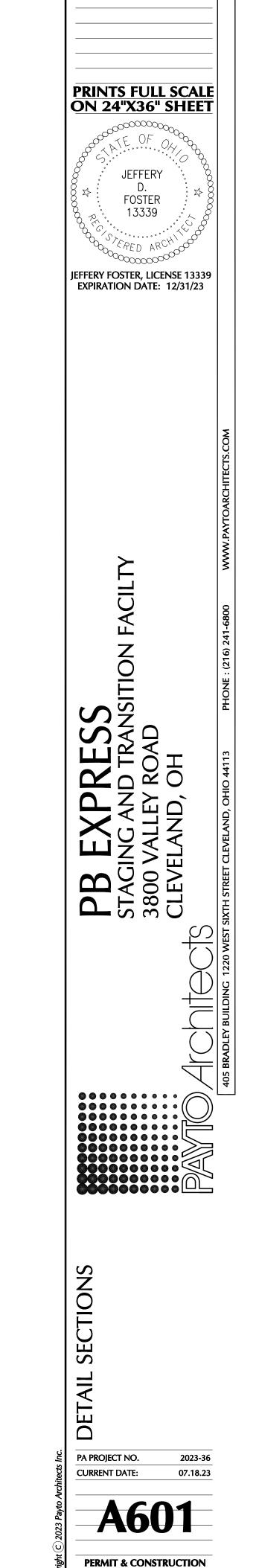
PA PROJECT NO.

**CURRENT DATE:** 

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DOCUMENTS

2023-36





**DOCUMENTS** 

ISSUE DATE:

- EXTEND MEMBRANE UP BACKSIDE

OF PARAPET AND TERMINATE

- MEMBRANE ROOFING SYSTEM

UNDER COPING

METAL COPING SYSTEM OVER ---

(2) LAYERS OF PT WOOD BLOCKING

## PAINTING SPECIFICATIONS

- . ALL PREVIOUSLY PAINTED ITEMS TO BE PREPARED PER SHERWIN WILLIAMS SURFACE PREPARATION GUIDE FOR APPROPRIATE SURFACE.
- 2. NEW DRYWALL AND WOOD TO BE PRIMED WITH (1) COAT SW PRO-MAR 200 INTERIOR LATEX PRIMER.
- 3. PREVIOUSLY UN-PAINTED INTERIOR FERROUS METAL TO BE PRIMED WITH (1) COAT S-W INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER.
- 4. FINISH FOR ALL INTERIOR DRYWALL AND WOOD SURFACES TO BE (2) COATS OF SW PRO-MAR 200 IN EG-SHEL FINISH. 5. FINISH FOR ALL INTERIOR EXPOSED CONCRETE MASONRY UNITS TO BE (2)
- COATS OF SW PRO-MAR 200 IN SEMI-GLOSS FINISH. 6. ALL EXTERIOR FERROUS METAL TO BE PRIMED WITH (1) COAT OF SW
- INDUSTRIAL ENAMEL WITH (2) FINISH COATS OF SW SUPERPAINT EXTERIOR IN SEMI-GLOSS FINISH.

## GYPSUM WALL BOARD SPECIFICATIONS:

A. Material: All walls and ceilings, unless shown otherwise on drawings, shall be finished with U.S. Gypsum 5/8" tapered—edge sheet rock, using Perf—A—Tape joint system. U.S. Gypsum Sound Deadening Board will be used on all interior walls of bathrooms. On ceilings of bathrooms, showers and high moisture areas water—resistant drywall (green—board) shall be used. Provide cement board substrate behind tile as indicated in the "TILE" section below. B. Inspections: Before starting application of sheet rock, the Contractor shall make examination of all rough framing to insure that the finished walls and ceilings will be firm, straight, plumb and level. Where framing is found inadequate, he shall make the proper changes.

C. Installation: All installation, sheeting and taping shall be made by experienced mechanics, strictly according to U.S. Government specifications. Drywall shall be installed with a continuous bead of Durabond 240 adhesive applied to all framing members and secured with a minimum of Type W screws per U.S. Government specifications. D. Corners:

1. Exterior corners shall be formed with 26 ga. galvanized iron Perf-A-Panels, cemented and taped.

2. Provide metal edge bead around all openings. E. Finished Job: Finished job shall present a smooth, plain surface without ridges, grooves, or rough spots. Where boards have been slightly scratched or

dented, taping cement shall be used to restore smooth surfaces. No broken or cracked boards shall be used. F. Patching: After all other mechanics have finished their work point up and patch all broken plastering. Pointing up around trim and all other set work and leave all in a complete and perfect condition.

G. Taping: Before Taper leaves job, he shall inspect it after dark, using artificial light sources to locate ridges, edges, nail holes, etc., which will not show in the more even light during the day. Taper to remove imperfections.

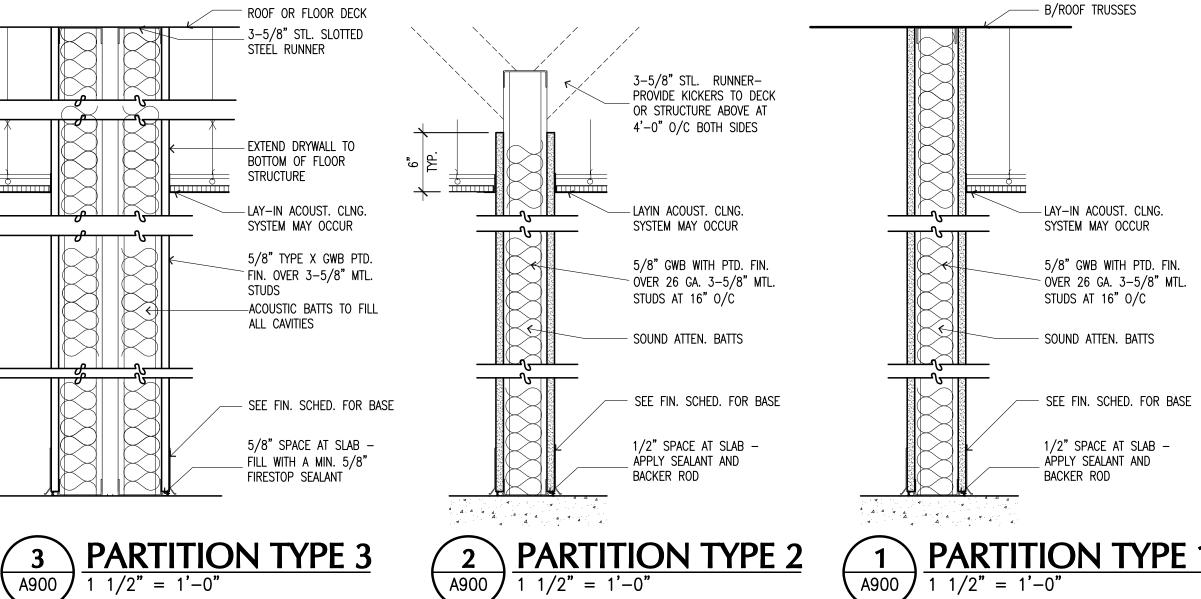
MATERIAL		MANUFACTURER	STYLE	COLOR	REMARKS		
LVT-1	LUXURY VINYL PLANK #1	TBD	TBD	TBD	MATERIAL ALLOWANCE OF \$6 PSF		
RB-1	RUBBER BASE #1	JOHNSONITE	4" HIGH, 1/8" THICK RUBBER COVED	TBD			
PT-1	PAINT COLOR #1	SHERWIN WILLIAMS	SEE SPECIFICATION		WALL FIELD COLOR		
PT-2	PAINT COLOR #2	SHERWIN WILLIAMS	SEE SPECIFICATION		EXPOSED STRUCTURE AND DECK		
PT-3	PAINT COLOR #3	SHERWIN WILLIAMS	SEE SPECIFICATION		DOORS AND FRAMES		
PT-4	PAINT COLOR #4	SHERWIN WILLIAMS	SEE SPECIFICATION		ACCENT COLOR		
SSM-1	SOLID SURFACE MATERIAL	DUPONT	CORIAN QUARTZ	TBD			
PL-1	PLASTIC LAMINATE	WILSONART			COUNTERTOPS		
PL-2	PLASTIC LAMINATE	WILSONART			BASE CABINETS		
PL-3	PLASTIC LAMINATE	WILSONART			WALL CABINETS		
AC-1	ACOUSTICAL CEILING #1	USG ORION 75	2X2 WHITE TEGULAR 62154	DONN DX GRID 15/16"			

DOC! 1		ROOM FINISI						CEILING					
ROOM NO.	ROOM NAME	FINISH	BASE	NORTH	EAST	SOUTH	WEST	TRIM	FINISH	GRID	HEIGHT	WINDOW	
100	ENTRY	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
101	DRIVERS	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
102	TOILET	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
110	DISPATCH	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
111	OFFICE	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
112	OFFICE	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
113	OFFICE	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
114	OFFICE	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
115	TELECOM	CPT-1	RB-1	PT-	PT-	PT-	PT-	PT-	OPEN	ı	_	_	
120	CORRIDOR	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
121	BREAK ROOM	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	4	
122	TOILET	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
123	TOILET	LVT-1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
124	JANITORIAL	1	RB-1	PT-	PT-	PT-	PT-	PT-	OPEN	_	_	_	
130	SERVICE	1	RB-1	PT-	PT-	PT-	PT-	PT-	2	_	2	_	3
131	TOILET	1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
132	OFFICE	1	RB-1	PT-	PT-	PT-	PT-	PT-	AC-1	AC-1	9'-0"	_	
KE	YNOTES - FIN	NSH S	CHE	DUL	E.			GE	NER.	AL N	OTES		
EXPOSED CONCRETE FLOOR WITH CLEAR SEALER.     SEE SECTION FOR INTERIOR FINISHES AND MATERIALS.     SEE REFLECTED CEILING PLAN FOR HEIGHTS AND CEILING							HO IN ET	OWEVER, ( THE SCHI C. FOR A	OTHER M EDULE. R DDITION	ATERIALS MAY EFER TO THE I	' BE REQUIRED FINISH FLOOR	PREDOMINANT FOR THE AREA, IN ADDITION TO THOSE INDICATED PLANS, DETAILS, SPECIFICATIONS, HER INFORMATION ON SURFACES TO	

- MANUALLY OPERATED ROLLER SHADES ON EXTERIOR WINDOWS.
- INDICATED FINISH. USE METHOD AS APPROPRIATE TO THE APPLICABLE FINISHES. C. CLEAN AND PREPARE EXISTING WALL SURFACES AS REQUIRED TO APPLY INDICATED

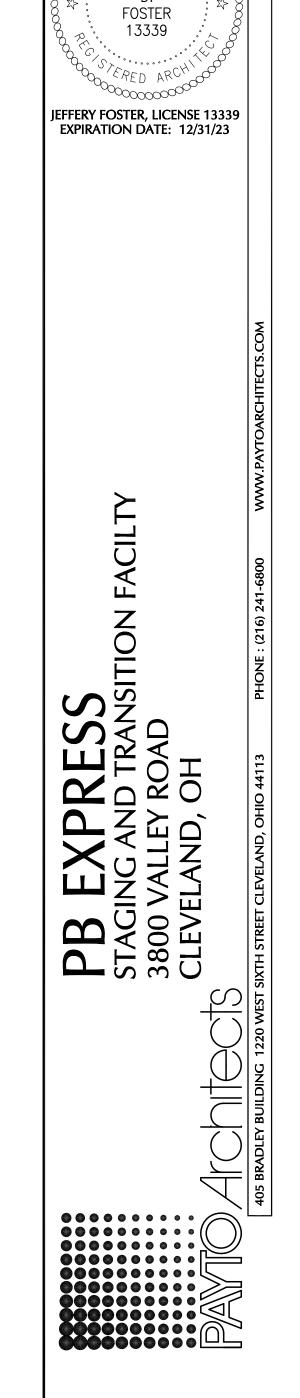
FINISH. USE METHOD AS APPROPRIATED TO THE APPLICABLE FINISHES.

- D. FINISHES TO BE APPLIED TO THE ENTIRE SURFACES, UNLESS OTHERWISE INDICATED
- E. CEILING AND WALL FINISHES INCLUDE DUCTWORK, PIPING, CONDUIT, SUPPORT, FRAMING, ETC. WITHIN AREA WHERE EXPOPSED STRUCTURE IS CALLED OUT.
- F. IN AREAS WHERE ACOUSTICAL CEILINGS DO NOT TERMINATE AT A WALL, ALL STRUCTURE, DUCTWORK, ETC. ABOVE CEILING ARE TO BE PAINTED.
- G. VERIFY ALL EXISTING CEILING HEIGHTS IN FIELD
- H. FILL AND LEVEL EXIST. CONC. FLOORS AS REQ'D TO ACHEIVE LEVEL SUBSTRATE FOR NEW FLOORING APPLICATIONS
- J. PAINT UNDERSIDE OF ALL SOFFITS TO MATCH THE VERTICAL FACE UNLESS NOTED **OTHERWISE**



**3**A900

1 PARTITION TYPE 1 1 1/2" = 1'-0"



FINISH SCHEDULE & PARTITION TYPES

PA PROJECT NO.

**CURRENT DATE:** 

**A900** 

**PERMIT & CONSTRUCTION DOCUMENTS** 

2023-36

07.18.23

ISSUE DATE:

PRINTS FULL SCALE

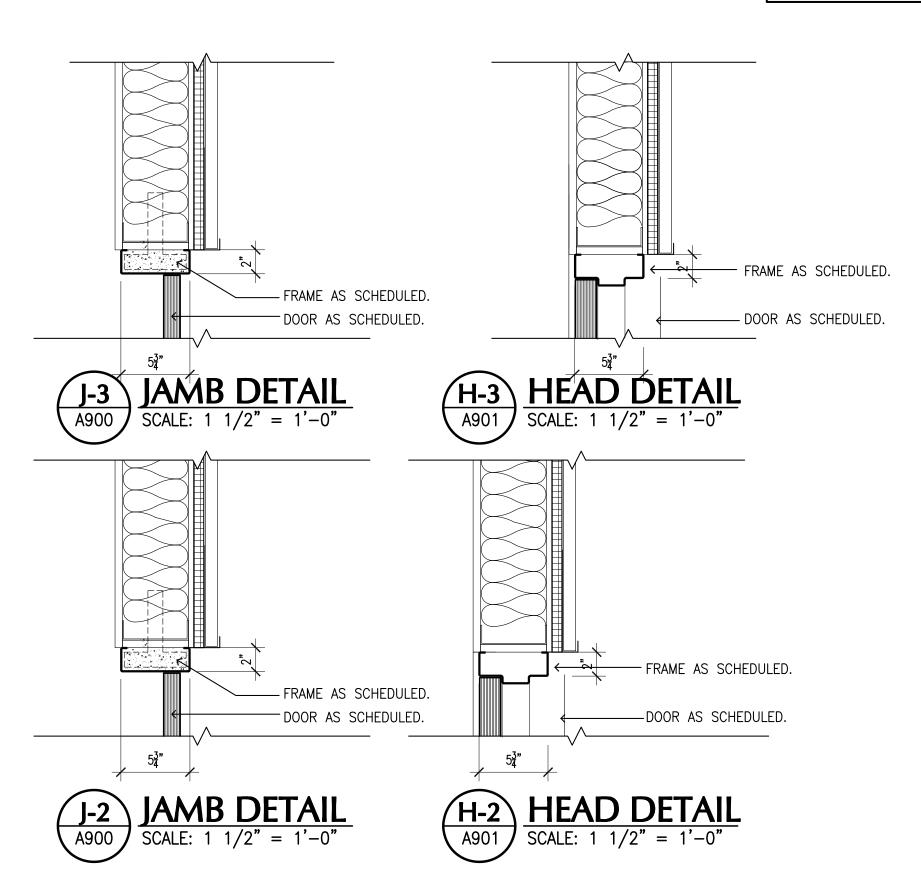
ON 24"X36" SHEET

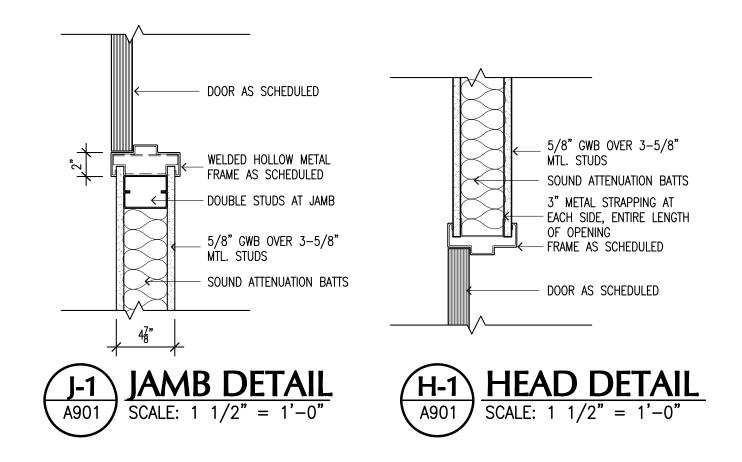
## H.M. DOOR & FRAME SPECIFICATIONS

- HOLLOW METAL DOORS TO COMPLY WITH ANSI/SDI-100.
- INTERIOR DOORS TO BE SDI-100, GRADE II, HEAVY DUTY MODEL 1, 18-GA. MIN. FACES. EXTERIOR DOORS TO BE SDI-100, GRADE III, EXTRA HEAVY DUTY, MODEL 2, 16-GA. MIN. FACES
- DOOR FACES FOR EXTERIOR DOORS TO BE G60 GALVANIZED STEEL. CLOSE TOP AND BOTTOM EDGES OF DOOR WITH 16-GA. INVERTED STEEL
- . REINFORCE ALL DOORS AT LOCATIONS OF SURFACE MOUNTED HARDWARE.
- HOLLOW METAL FRAMES TO BE KNOCK DOWN TYPE, 14-GA. STEEL. BACK-PRIME ALL FRAMES PRIOR TO INSTALLATION.
- EACH DOOR FRAME TO HAVE A MIN. OF (3) JAMB ANCHORS AT EACH SIDE AND (2) FLOOR ANCHORS AT BASE OF EACH JAMB.
- FRAMES TO BE INSTALLED PER SDI-105, DOORS PER ANSI/SDI-100

## WOOD DOOR SPECIFICATIONS

- FLUSH WOOD DOORS TO BE CROSSBANDED PARTICLEBOARD CORE COMPLYING WITH ANSI A208.1, GRADE 1-LD-2
- . FACES TO BE WDMA PLAIN SLICED MAPLE TO MATCH EXISTING. STAIN TO BE SELECTED FROM MANUFACTURERS STANDARD SELECTIONS.
- ALL DOORS TO MEET WITH NWWDA QUALITY STANDARDS I.S.1 "INDUSTRY STANDARD FOR WOOD FLUSH DOORS AND AWI QUALTIY STANDARD "ARCHITECTURAL WOODWORK QUALITY STANDARDS."
- HANDLE, STORE AND INSTALL PER NWWDA RECOMMENDATIONS STATED IN "HOW TO STORE, HANDLE, FINISH, INSTALL AND MAINTAIN WOOD DOORS" AS WELL AS MANUFACTURERS RECOMMENDATIONS AND GUIDELINES.
- APPROVED MANUFACTURERS: EGGERS, VT, ALGOMA, GRAHAM, BUELL, IPIK OR EQUAL.





## DOOR HARDWARE SPECIFICATIONS:

- . ALL DOOR HARDWARE TO BE CLASSIFIED AS GRADE 1 COMMERCIAL BUILDING HARDWARE AND CONFORM TO BHMA A156 STANDARDS.
- KEYING SHALL CONFORM WITH THE OWNERS EXISTING BUILDING AND PER THE OWNER'S DIRECTION. KEYING BY LANDLORD.
- DOOR PREPARATION SHALL COMPLY WITH DHI A115 SERIES. DRILL AND TAP DOORS AND FRAMES FOR SURFACE APPLIED HARDWARE PER SDI 107. ADJUST AND REINFORCE ATTACHMENT SUBSTRATES AS NECESSARY FOR PROPER INSTALLATION AND OPERATION. DRILL AND COUNTERSINK UNITS THAT ARE NOT FACTORY PREPARED FOR ANCHORAGE FASTENERS. SPACE ALL FASTENERS PER INDUSTRY STANDARDS.
- ALL MOUNTING HEIGHTS TO BE PER THE DHI'S "RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR STANDARD DOORS AND FRAMES."
- 5. FINISHES OF ALL HARDWARE SHALL COMPLY WITH BHMA A156.18. THRESHOLDS AT ALL DOORS ARE TO BE  $\frac{1}{2}$ " HEIGHT MAXIMUM IN ALL LOCATIONS.
- 7. ALL DOORS TO HAVE WALL OR FLOOR STOPS.

## **PRODUCTS**

EXTERIOR TO BE STAINLESS STEEL WITH STAINLESS STEEL PIN, INTERIOR TO BE STEEL WITH STEEL PIN. ALL TO HAVE NON-REMOVABLE PINS AND INSTALLED WITH MACHINE SCREWS. MANUF. TO BE HAGER. TYPE TO MATCH EXISTING.

LOCKS & LATCHES: MANUFACTURER TO BE CORBIN RUSSWIN WITH CORBIN RUSSWIN CYLINDERS TO MATCH BUILDING STANDARD. Locks shall be ANSI A156.13, Grade 1 mortise locksets, manufactured from heavy gauge steel, containing components of steel with a zinc

dichromate plating for corrosion resistance. Locks are to have a standard 2 3/4" backset with a full 3/4" throw stainless steel mechanical anti-friction latchbolt. Deadbolt shall be a full 1" throw, constructed of stainless steel. Lever trim shall be cast or forged in the design specified, with 2-1/8" diameter roses. Levers shall be thru-bolted to assure proper alignment. Locks will include screws to accommodate door thickness. CLOSERS:

ALL CLOSERS TO BE LCN, NO SUBSTITUTIONS.

## HARDWARE SET #1:

EXTERIOR HM DOOR AND FRAME. (3) BALL BEARING HINGES, CLOSER, EXIT DEVICE, GASKET KIT, MORTISE LOCK WITH STOREROOM FUNCTION, ELECTRIC STRIKE, POWER SUPPLY, BRUSH SWEEP, SILL, KEYS AND LOCK CYLINDER. SECURITY PROVIDER TO INSTALL CARD READER AND KEYPAD.

## HARDWARE SET #2:

(3) BALL BEARING HINGES, PRIVACY LOCKSET WITH OCCUPIED / VACANT DEADBOLT, WALL STOP, COAT HOOK.

## HARDWARE SET #3:

(3) BALL BEARING HINGES, MORTISE LOCK WITH STOREROOM FUNCTION, ELECTRIC STRIKE, POWER SUPPLY, WALL STOP, CLOSER, KEYS AND LOCK CYLINDER. SECURITY PROVIDER TO INSTALL CARD READER.

## HARDWARE SET #4:

(3) BALL BEARING HINGES, PASSAGE LOCKSET, WALL STOP, CLOSER.

(3) BALL BEARING HINGES, OFFICE FUNCTION MORTISE LOCKSET, WALL STOP, CLOSER, KEYS AND LOCK CYLINDER.

## HARDWARE SET #6:

(3) BALL BEARING HINGES, STOREROOM FUNCTION MORTISE LOCKSET, OVERHEAD STOP, CLOSER, KEYS AND LOCK CYLINDER.

## HARDWARE SET #7:

EXTERIOR HM DOOR AND FRAME. (3) BALL BEARING HINGES, CLOSER, EXIT DEVICE, GASKET KIT, MORTISE LOCK WITH STOREROOM FUNCTION, BRUSH SWEEP, SILL, KEYS AND LOCK CYLINDER, DRIP CAP.

## **OVERHEAD DOOR SPECIFICATIONS:**

- SECTIONAL OVERHEAD DOORS ARE TO BE INSULATED, PRE-FINISHED METAL SKIN PANELS, FINISHED ON INTERIOR AND EXTERIOR.
- BASIS OF DESIGN TO BE WAYNE DALTON THERMOSPAN MODEL 150 STEEL SECTIONAL DOOR
- TRACK TO BE VERTICAL LIFT IF POSSIBLE. VERIFY CONDITIONS IN FIELD PRIOR TO PROCUREMENT.
- 4. ALL GLASS TO BE INSULATED TEMPERED.
- . OPERATION TO ME MOTORIZED WITH REMOTE OPERATOR AND FIXED BUTTON
- PROVIDE ALL NECESSARY SAFETY EYES, CONTROLS, OPERATORS AND HIGH

						DO	OR	SC	HE	DU	JLE					
DOOR	NOMIN	IAL			С	OOR				FR	RAME			LABEL		NOTE: ALL DOOR FRAMI TO HAVE SILENCES
NO.	WIDTH	HGT.	THK.	TYPE	MAT.	FIN.	GLASS	TYPE	MAT.	FIN.	HEAD	JAMB	SILL	(MIN.)	HDW.	REMARKS
100	3'-0"	7'-0"	1-3/4"	В	НМ	PT-	3	1	НМ	PT-	H-S	J-3	-	_	1	2
101	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	4	
102	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	_	2	
110	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	3	2
111	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	5	
112	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	5	
113	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	5	
114	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	-	_	5	
114	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	_	5	
120	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	_	6	
121A	3'-0"	7'-0"	1 3/4"	В	WD	5	1	1	НМ	PT-	H-1	J-1	_	_	4	
121B	3'-0"	7'-0"	1-3/4"	В	НМ	PT-	3	1	НМ	PT-	H-3	J-3	-	_	1	2
122	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	_	2	
123	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	_	2	
124	3'-0"	7'-0"	1 3/4"	Α	WD	PT-	_	1	НМ	PT-	H-1	J-1	-	_	4	
130A	3'-0"	7'-0"	1-3/4"	В	НМ	PT-	3	1	НМ	PT-	H-3	J-3	-	_	1	2
130B	3'-0"	7'-0"	1-3/4"	Α	НМ	PT-	_	1	НМ	PT-	H-3	J-3	-	_	7	
130C	14'-0"	14'-0"	6	-	_	_	_	-	-	_	-	-	-	_		6
130D	14'-0"	14'-0"	6	-	_	_	_	-	_	_	-	-	-	_		6
131	3'-0"	7'-0"	1 3/4"	Α	WD	5	_	1	НМ	PT-	H-1	J-1	-	-	2	
132	3'-0"	7'-0"	1 3/4"	В	НМ	PT-	1	1	НМ	PT-	H-1	J-1	-	_	5	
			-					•			•					•

## **KEYNOTES - DOOR SCHEDULE**

1) DOOR TO HAVE TEMPERED GLASS LITE OR SIDE LITE. SEE DOOR TYPES

- FOR ADDITIONAL. IF FIRE RATED, LITE KIT AND GLASS TO BE RATED ACCCORDINGLY.
- (2) DOOR TO HAVE ELECTRIC STRIKE, CARD READER, AND CLOSER
- (3) DOOR TO HAVE TEMPERED INSULATED GLASS LITE. 4) EXTERIOR OPENING. SEE EXTERIOR WALL SECTIONS FOR
- CONSTRUCTION TYPE. 5 PRE FINISHED WOOD DOOR.
- 6 OVERHEAD DOOR. SEE SPEC. FOR ADD'T.

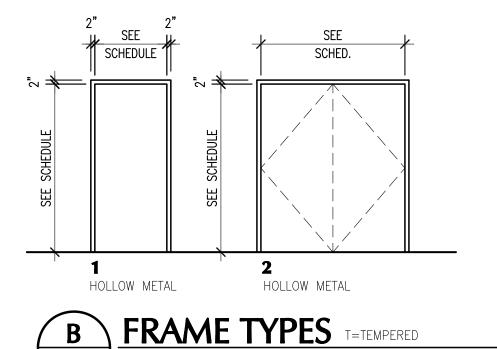
## GENERAL NOTES

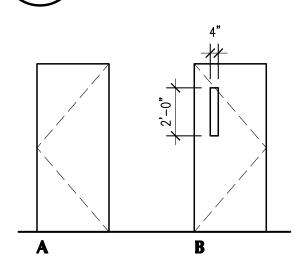
. SEE FINISH SCHEDULE & NOTES ELSEWHERE ON THIS SHEET FOR ADDITIONAL FINISH INFORMATION

2. ALL ELEVATIONS OF HOLLOW METAL STOREFRONT TO BE COORDINATED WITH SYSTEM AND ARCHITECTURAL DRAWINGS AND DETAILS SHOWN **ELSEWHERE IN THE CONTRACT DOCUMENTS.** 

3. ALL DIMENSIONS FOR EXISTING DOORS, FRAMES AND OPENINGS TO BE **VERIFIED IN THE FIELD.** 

4. VERIFY INSTALLATION OF ALL DOOR HARDWARE PRIOR TO ROUGH-IN OF FINISH OF ANY AREAS. THIS INCLUDES ELECTRICAL AND TELECOMMUNICATIONS COORDINATION FOR ACCESS CONTROLS AND POWERED SYSTEMS.





SCALE: 1/4" = 1'-0"





RESS TRANSITION I SOAD JH

**ISSUE DATE:** 

PRINTS FULL SCALE

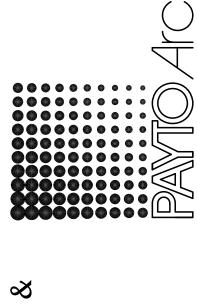
ON 24"X36" SHEET

**FOSTER** 

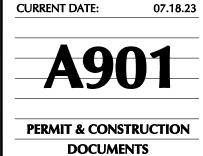
JEFFERY FOSTER, LICENSE 13339

**EXPIRATION DATE: 12/31/23** 

07.18.23



SCHEDULE S DOOR DETAIL PA PROJECT NO.



2023-36

## **GENERAL STRUCTURAL NOTES:**

## **GENERAL CONDITIONS**

- IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE EXISTING BUILDING DURING CONSTRUCTION. FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS WHICH AFFECT THE NEW
- 3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED OR NOTED SHALL BE PROVIDED.
- 4. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL CONFORM TO THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- GOVERNING CODE: OHIO BUILDING CODE, CURRENT EDITION
- FLOOR DESIGN LIVE LOADS:

MAIN FLOOR (SLAB-ON-GRADE)

ROOF LIVE LOAD:

MINIMUM LIVE 30 PSF 25 PSF 20 PSF 1.0 1.0

WIND LOAD:

115 MPH BASIC WIND SPEED (3 SEC GUST) **EXPOSURE CATEGORY** 

INTERNAL PRESSURE COEFFICIENTS (GCpi) PER SECTION 6.5.11 OF ASCE 7-10 COMPONENTS AND CLADDING PRESSURES PER SECTION 6.5.12.4 OF ASCE 7-10

EARTHQUAKE LOAD:

8.9%g

BASIC SEISMIC FORCE RESISTING SYSTEM LIGHT FRAME (COLD-FORM STEEL) WALLS WITH WOOD PANELS EQUIVALENT LATERAL FORCE PROCEDURE

100 PSF

ANALYSIS PROCEDURE

- 10. ANY CHANGES TO THE STRUCTURAL SYSTEMS SHALL BE REDESIGNED BY A PROFESSIONAL ENGINEER AT NO COST TO THE OWNER OR THE A/E AND SUBMITTED TO THE A/E FOR REVIEW. SUBMITTAL SHALL BE ACKNOWLEDGED IN WRITING BEFORE BEGINNING CONSTRUCTION. IF CHANGES ARE MADE WITHOUT WRITTEN APPROVAL SUCH CHANGES SHALL BE THE LEGAL AND FINANCIAL RESPONSIBILITY OF THE PARTY MAKING THE CHANGE TO REPLACE OR REPAIR THE CONDITION AS DIRECTED BY THE A/E.
- 11. CONSTRUCTION LOADS SHALL NOT EXCEED DESIGN LIVE LOADS. SHORING AND RE-SHORING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- COORDINATE WITH ALL DRAWINGS FOR PERTINENT INFORMATION RELATED TO STRUCTURAL WORK. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE TO UNCOVER AND VISUALLY FIELD VERIFY THE EXISTING CONSTRUCTION PRIOR TO THE START OF ANY WORK AFFECTING THE EXISTING STRUCTURE. CONTRACTOR IS TO REPORT ANY CHANGES OR DISCREPANCIES FROM THOSE SHOWN TO THE A/E.

- 1. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE SURVEY AND SUB-SURFACE INVESTIGATION REPORT BEFORE BEGINNING CONSTRUCTION.
- REFERENCE THE GEOTECHNICAL REPORT COMPETED FOR THIS SITE BY FOR FURTHER INFORMATION RELATED TO THE EXISTING SUB-SURFACE SOIL CONDITIONS
- DESIGN SOIL BEARING PRESSURE = 2000 PSF.
- NOTIFY THE A/E AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS.
- SET FOUNDATIONS/GRADE BEAMS AT ELEVATIONS SHOWN, OR ON FIRM UNDISTURBED MATERIAL OF DESIGN BEARING CAPACITY, WHICHEVER IS LOWER. THE GEOTECHNICAL ENGINEER SHALL VERIFY THAT EACH FOOTING PLACED IS BEARING ON ADEQUATE MATERIAL
- ALL DISTURBED EARTH UNDER FOOTINGS/GRADE BEAMS SHALL BE ADEQUATELY DRAINED BEFORE FOUNDATION CONCRETE IS PLACED.
- BACKFILL AND FILL MATERIALS SHALL CONSIST OF SOIL MATERIALS APPROVED BY THE GEOTECHNICAL ENGINEER, AND BE FREE OF DEBRIS, WATER, FROZEN MATERIALS, ORGANIC AND OTHER DELETERIOUS MATTER.
- A. POROUS FILL SHALL BE NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF CRUSHED LIMESTONE OR GRAVEL, (6" THICK, COMPACTED, UNLESS NOTED OTHERWISE ON DRAWINGS) AND THE GRADATION SHALL CONFORM WITH ASTM C33, SIZE #57.
- B. DRAINAGE FILL SHALL BE A WASHED, UNIFORMLY GRADED MIXTURE OF CRUSHED STONE, OR GRAVEL OR UNCRUSHED GRAVEL, AT EXTERIOR WALLS AND RETAINING WALLS. HAVING THE FOLLOWING GRADATION:

90-100 20-55 NO. 4 0-10 NO. 8 0-5

C. WELL GRADED GRANULAR MATERIAL (#8) SHALL CONFORM TO ASTM C33.

TOTAL % PASSING

- **EXCAVATION AND COMPACTION:**
- A. CARE SHALL BE TAKEN TO NOT DISTURB THE BOTTOM OF THE EXCAVATION. EXCAVATION TO FINAL GRADE SHALL NOT BE MADE UNTIL JUST PRIOR TO PLACING CONCRETE.
- B. BACKFILL AND FILL SHALL BE PLACED IN LIFTS OF 8" MAXIMUM LOOSE DEPTH. EACH LIFT SHALL BE COMPACTED WITH A POWER VIBRATING COMPACTOR OR SIMILAR EQUIPMENT TO ASSURE MAXIMUM COMPACTION OF THE MATERIAL.
- C. COMPACTION SHALL BE NOT LESS THAN 98% OF MAXIMUM DENSITY ACCORDING TO ASTM D698 FOR COHESIVE MATERIAL. COHESIONLESS FILL FOR DRAINAGE SHALL BE COMPACTED TO 80% OF RELATIVE DENSITY ACCORDING TO ASTM D-4253 AND D-4254.
- D. SETTLEMENT OR WASHING OUT THAT OCCURS IN GRADED OR BACKFILLED AREAS PRIOR TO ACCEPTANCE OF THE WORK SHALL BE
- REPAIRED AND GRADES RE-ESTABLISHED TO THE REQUIRED ELEVATIONS AND SLOPES.
- E. ALL EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE.
- F. GEOTECHNICAL ENGINEER TO BE RETAINED TO PROVIDE PROPER GUIDANCE FOR SITE PREPARATION AND EXISTING BASEMENT BACKFILL. GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE ALL EXCAVATIONS PRIOR TO FOUNDATION PLACEMENT.

## REINFORCING LAP AND ANCHORAGE LENGTH SCHEDULES

Fy = GRADE 60, NON-COATED BARS

	3,000 PSI CONCRETE									
	TOP BARS	3	OTHER BARS							
BAR SIZE	LAP	ANCHORAGE	BAR SIZE	LAP	ANCHORAGE					
#3	21"	16"	#3	16"	13"					
#4	28"	22"	#4	22"	17"					
#5	35"	27"	#5	27"	21"					
#6	46"	35"	#6	35"	27"					
#7	63"	48"	#7	48"	37"					
#8	82"	63"	#8	63"	49"					
#9	104"	80"	#9	80"	62"					
#10	MS	102"	#10	102"	78"					
#11	MS	125"	#11	MS	96"					

	TOP BAR	S	OTHER BARS														
BAR SIZE	LAP	ANCHORAGE	BAR SIZE	LAP	ANCHORAGE												
#3	18"	14"	#3	14"	14"												
#4	24"	19"	#4	19"	15"												
#5	30"	24"	#5	24"	18"												
#6	40"	31"	#6	31"	24"												
#7	54"	42"	#7	42"	32"												
#8	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	71"	55"	#8	55"	42"
#9	90"	69"	#9	69"	54"												
#10	MS	88"	#10		68"												
#11	MS	108"	#11	MS	83"												

4 000 PST CONCRETE

## **CAST-IN-PLACE CONCRETE**

- 1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS. ACI 301-10 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" IS HEREBY MADE A PART OF THESE DRAWINGS. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-10, EXCEPT AS EXPLICITLY MODIFIED HEREIN.
- 2. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318-11, "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 3. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
- A. 4000 PSI WITHOUT ENTRAINED AIR FOR ALL CONCRETE WITH A MAXIMUM WATER/CEMENT RATIO = 0.45 UNLESS SPECIFICALLY OTHERWISE
- B. 4000 PSI WITH A MAXIMUM WATER/CEMENT RATIO = 0.45 AND WITH AN ENTRAINED AIR ADMIXTURE CONFORMING WITH ASTM FOR ALL CONCRETE PERMANENTLY EXPOSED TO THE WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 6% + 1%.
- C. 3000 PSI WITH A MAXIMUM WATER/CEMENT RATIO = 0.50 FOR FOUNDATIONS/FOOTINGS.
- 4. REINFORCING BARS TO BE ASTM A615, GRADE 60 KSI YIELD STRENGTH
- 5. TACK WELDING OF THE REINFORCING SHALL NOT BE PERMITTED.
- 6. WELDED WIRE FABRIC TO BE ASTM A185, DELIVERED IN FLAT SHEETS.
- 7. CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED.
- 8. ALL CONCRETE SHALL CONTAIN A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE A, F OR G.
- ALUMINUM PIPE SHALL NOT BE USED WITH CONCRETE PUMPS.
- 10. CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1-1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE ALLOWED. ALL WATER MUST BE ADDED AT THE **BATCH PLANT**
- 11. REINFORCING BARS REQUIRED FOR PROPER SUPPORT OF PRINCIPAL REINFORCING SHALL BE DETAILED AND SUPPLIED BY THE CONTRACTOR WHETHER OR NOT THEY ARE INDICATED ON THE DRAWINGS. THE MINIMUM BAR SIZE SHALL BE #4 AND MAXIMUM SPACING SHALL BE 36" ON CENTER. WELDED WIRE FABRIC SHALL NOT BE USED FOR THE SUPPORT OF PRINCIPAL REINFORCING. CONCRETE CUBES OR SAND PLATED CHAIRS SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE.
- 12. WHERE CONSTRUCTION JOINTS ARE REQUIRED BUT ARE NOT INDICATED ON THE DRAWINGS, THEY SHALL BE LOCATED AT MIDSPAN OF BEAMS, SLABS, AND WALLS, AND SHALL BE SUBJECT TO REVIEW BY THE A/E OR OWNER. UNLESS OTHERWISE NOTED OR SHOWN ON THE DRAWINGS. PROVIDE A CONTINUOUS SHEAR KEY IN SLABS AND WALLS. AND A MINIMUM OF TWO CONTINUOUS HORIZONTAL KEYS IN BEAMS AND EACH JOIST. THE MINIMUM KEY SIZE SHALL BE 1-1/2" DEEP BY 1/3 THE DEPTH OR WIDTH OF THE MEMBER.
- 13. ALL CONSTRUCTION JOINTS BELOW GRADE SHALL HAVE WATERSTOPS, UNLESS NOTED OTHERWISE.
- 14. FORM CONTRACTION JOINTS WITH POWER SAWS EQUIPPED WITH SHATTERPROOF ABRASIVE OR DIAMOND-RIMMED BLADES. CUT  $\frac{1}{2}$ INCH (3 MM) WIDE JOINTS INTO CONCRETE WHEN CUTTING ACTION WILL NOT TEAR, ABRADE, OR OTHERWISE DAMAGE SURFACE AND BEFORE CONCRETE DEVELOPS RANDOM CONTRACTION CRACKS.
- 15. ALL LIQUID MEMBRANE CURING COMPOUND MEETING THE REQUIREMENTS OF ASTM C-309 SHALL BE USED ON ALL FORMED SURFACES DESIGNATED TO RECEIVE A "SMOOTH RUBBED FINISH" OR "GROUT CLEANED FINISH".
- 16. FOR CONCRETE WHICH WILL BE COVERED WITH A CONCRETE TOPPING OR A MATERIAL SET IN A MORTAR BED, BOTH OF WHICH REQUIRE A BOND TO THE FIRST CAST CONCRETE, THE LIQUID MEMBRANE CURING COMPOUND SHALL NOT BE USED, BUT A WATERPROOF SHEET MEMBRANE SHALL BE USED INSTEAD, CONFORMING TO ASTM C171 WITH ALL JOINTS AND EDGES SEALED WITH TAPE TO PREVENT MOISTURE LOSS.
- 17. COMPLY WITH ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF SPECIAL FINISHES OR TREATMENTS TO EXPOSED CONCRETE.
- 18. PROVIDE 6 X 6- W2.9 X W2.9 WELDED WIRE FABRIC IN ALL SLABS ON GRADE AND 6 X 6 W2.1 x W2.1 AT ALL ELEVATED SLABS, UNLESS
- 19. PLACE WELDED WIRE FABRIC IN SLABS ON GRADE AT 1/3 THE SLAB THICKNESS DOWN FROM TOP OF SLAB, UNLESS NOTED OTHERWISE.
- 20. ALL WELDED WIRE FABRIC SHALL BE CHAIRED TO ITS PROPER HEIGHT AND MAINTAINED AT THE PROPER LEVEL THROUGHOUT THE CONCRETE PLACING OPERATION. LIFTING OF WELDED WIRE FABRIC WITH A HOOK DURING CONCRETE PLACEMENT SHALL NOT BE
- 21. OPENINGS:
  - A. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. RECONCILE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
  - B. AT ALL SLAB OPENINGS. THE EQUIVALENT OF REINFORCEMENT INTERRUPTED SHALL BE ADDED ON ALL SIDES OF THE OPENING. ALL OPENINGS SHALL BE LOCATED WITHIN THE MIDDLE HALF OF THE SPAN IN EACH DIRECTION UNLESS SPECIFICALLY APPROVED BY THE
  - C. OPENINGS SHALL NOT BE PROVIDED IN FRAMED SLABS, BEAMS, JOISTS, COLUMNS, AND WALLS UNLESS SHOWN ON STRUCTURAL DRAWINGS. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE A/E BEFORE PROCEEDING.
  - D. PROVIDE ½ NUMBER OF BARS INTERRUPTED PLUS ONE TYPICAL EACH FACE OF OPENING. PROVIDE TWO #5 BARS AROUND ALL SLAB AND WALL OPENINGS, EXTENDING 2' BEYOND OPENING IN EVERY DIRECTION UNLESS NOTED. OPENINGS NOT EXCEEDING 16" X 16" MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
- 23. CHAMFER EXPOSED EDGES OF CONCRETE 3/4", UNLESS NOTED OTHERWISE.
- 24. REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTH SHALL CONFORM WITH TABLE #1, "MINIMUM LAP SPLICE AND ANCHORAGE
- 25. TOP LAYER OF REINFORCING STEEL IN BEAMS, SLABS, JOISTS AND FOOTINGS SHALL BE CONSIDERED TOP BARS REGARDLESS OF THICKNESS OF CONCRETE BELOW THE BARS.
- 26. FOOTINGS, COLUMNS, WALLS:
- A. DOWELS IN FOOTINGS TO MATCH VERTICAL COLUMN OR WALL REINFORCING.
- B. UNLESS SHOWN OTHERWISE, PROVIDE THE FOLLOWING WALL REINFORCING:

WALL THICKNESS HORIZONTAL STEEL #4 @ 12" #4 @ 16" E.F. 10" AND 12" #4 @ 18" E.F.

- C. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LENGTH OF EACH LEG
- BE 2'-0" UNLESS SHOWN OTHERWISE. D. CAST IN CONTINUOUS DOVETAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS AT 24" O.C. FOR PARALLEL
- SURFACES AND AT CENTERLINE OF MASONRY FOR PERPENDICULAR SURFACES.
- E. PROVIDE LEAN CONCRETE (fc'= 1500 PSI) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
- F. ALL WALL FOOTING REINFORCING SHALL EXTEND TO CENTERLINE OF COLUMN FOOTINGS.
- 27. PROVIDE A MINIMUM OF 3-#5 TOP REINFORCING BARS IN BEAMS WHERE NO OTHER TOP BARS ARE AVAILABLE FOR SUPPORTING STIRRUPS. ALL SPANDREL AND EDGE BEAMS SHALL HAVE A MINIMUM OF 3-#5 TOP REINFORCING BARS AND CLOSED STIRRUPS
- 28. PROVIDE BONDBREAKER AT MASONRY BEARING OF ALL CAST-IN-PLACE CONCRETE SLABS, JOISTS, AND BEAMS.
- 29. BONDBREAKER MATERIAL SHALL BE 30 POUND FELT PAPER.
- 30. DETERMINE SIZE AND LOCATION OF MECHANICAL EQUIPMENT, AND MAKE PROVISIONS FOR BOLTS, SLEEVES, PADS, ETC., IN ACCORDANCE WITH THE MANUFACTURER'S CERTIFIED DRAWINGS. THIS WORK SHALL BE COORDINATED WITH THE TRADES INVOLVED.

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## **MASONRY WORK**

- MASONRY WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE REFERENCES AND STANDARDS LISTED BELOW, EXCEPT AS MODIFIED HEREIN, IN ADDITION TO ALL OTHER REQUIREMENTS OF THE CONTRACT DOCUMENTS AND STANDARD
- A. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)
- B. BRICK INSTITUTE OF AMERICA (BIA)
- C. AMERICAN CONCRETE INSTITUTE, ACI-ASCE COMMITTEE 530. (ACI)
- 2. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS WITH A DRY NET WEIGHT OF NOT MORE THAN 115 PCF.
- HOLLOW AND SOLID CONCRETE MASONRY UNITS SHALL CONFORM WITH ASTM C90, TYPE I WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI, EACH UNIT, NET CROSS-SECTIONAL AREA.
- MORTAR FOR LOAD-BEARING WALLS, EXTERIOR WALLS, SHEAR WALLS, AND VERTICALLY REINFORCED MASONRY WALLS SHALL BE ASTM C270 TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1800 PSI IN 28 DAYS.
- 5. MORTAR FOR PARTITIONS AND NON-BEARING WALLS SHALL BE ASTM C270 TYPE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 750 PSI IN 28 DAYS.
- 7. MAXIMUM HEIGHT OF GROUT POUR SHALL BE 4'-0" UNLESS CLEAN OUT OPENINGS ARE PROVIDED AT THE BOTTOM OF ALL

6. GROUT TO FILL CORES SHALL CONFORM WITH ASTM C476, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28

REINFORCED MASONRY

CELLS TO BE FILLED.

A. VERTICAL BARS:

1 - #5 CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL, AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINT, AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS OTHERWISE NOTED. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE. LAP SPLICES SHALL BE 48 BAR DIAMETERS FOR GRADE 60 BARS. DOWEL ALL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.

B. HORIZONTAL BARS:

2 - #5's IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ROOF LINE. 1 - #5 IN MINIMUM 8" DEEP DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPET OR TOP OF FREESTANDING WALL. PLACE THESE BARS CONTINUOUS THROUGH CONTROL JOINTS PER TYPICAL DETAIL. PROVIDE BENT BARS PER TYPICAL DETAIL TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND WALL INTERSECTIONS TO MAINTAIN BOND BEAM CONTINUITY. LAP SPLICES SHALL BE 48 BARS DIAMETERS FOR GRADE 60 BARS. STAGGER SPLICES A MINIMUM OF 40 BAR DIAMETERS.

- 9. ALL UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HEAD, BED (FACE SHELLS), WEBS, AND COLLAR JOINTS, UNLESS
- 10. ALL MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS A MAXIMUM SPACING OF 25'-0" TYPICAL UNLESS NOTED. COORDINATE ALL LOCATIONS OF CONTROL JOINTS WITH THE ARCHITECTURAL DRAWINGS.
- 11. DO NOT USE CALCIUM CHLORIDE OR ANY ADDITIVE THAT CONTAINS CALCIUM CHLORIDE IN THE MORTAR OR GROUT. 12. WALL CONSTRUCTION UNDER MASONRY BEARING STRUCTURAL MEMBERS SHALL BE AS FOLLOWS, UNLESS NOTED
- A. BOND BEAM AS DETAILED ON THE DRAWINGS UNDER WALL BEARING STEEL JOISTS. BOND BEAM SHALL BE FILLED WITH

C. CONTINUOUS SOLID MASONRY OR MASONRY GROUTED SOLID, 8" HIGH, UNDER WALL BEARING PRECAST OR

- B. SOLID MASONRY OR MASONRY GROUTED SOLID, 32" LONG AND 24" HIGH, CENTERED UNDER EACH WALL BEARING STEEL
- CAST-IN-PLACE CONCRETE SLABS. 13. ALL MASONRY WALLS SHALL HAVE GALVANIZED HORIZONTAL JOINT REINFORCING OF LADDER TYPE, 3/16" SIDE RODS AND

3/16" CROSS RODS, SHEAR WALLS, AND VERTICALLY REINFORCED OR GROUTED WALLS, SPACED 16" ON CENTER VERTICALLY

- AND FOR PARAPETS 8" O.C. VERTICALLY.
- 14. CONVENTIONAL REINFORCING BARS, HORIZONTAL AND VERTICAL, SHALL BE A615 GRADE 60. 15. PROTECT MASONRY FROM FREEZING WHEN THE TEMPERATURE IS 40 DEG FAHRENHEIT OR LESS.
- 16. DO NOT USE FROZEN MATERIALS OR MATERIALS MIXED OR COATED WITH ICE OR FROST.

19. NO PREMIXED MASONRY CEMENT MORTARS SHALL BE PERMITTED.

18. TEMPORARILY BRACE ALL MASONRY WALLS TO PROVIDE STABILITY DURING CONSTRUCTION UNTIL THE DESIGNED STRUCTURE IS COMPLETE AND CAN STABILIZE THE WALLS.

17. DO NOT BUILD ON FROZEN WORK. REMOVE AND REPLACE MASONRY WORK DAMAGED BY FROST OR FREEZING.

PRINTS FULL SCALE ON 24"X36" SHEET

ISSUE DATE:

07.18.23

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PA PROJECT NO. CURRENT DATE:

## **GENERAL STRUCTURAL NOTES:**

## STRUCTURAL STEEL

- 1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION (ALLOWABLE STRENGTH DESIGN), AWS D1.1, AND OTHER CODES, STANDARDS, AND SPECIFICATIONS EXCEPT AS EXPLICITLY MODIFIED HEREIN.
- . CONTRACTOR RESPONSIBLE FOR ALL MISCELLANEOUS/ORNAMENTAL STEEL NOT SHOWN ON STRUCTURAL DRAWINGS.
- ASTM A36; OTHER STEEL PLATES, SHAPES, BARS, AND RODS ASTM A500, GRADE B; HSS/TS SECTIONS (Fy = 46KSI) U.N.O. ASTM A53, TYPE E OR S, GRADE B; STEEL PIPE

STRUCTURAL STEEL: ASTM A992, GRADE 50; STRUCTURAL STEEL WIDE FLANGES AND CHANNELS

- 4. BOLTS: 3/4" DIAMETER MINIMUM, UNLESS NOTED OTHERWISE.
  ASTM A325 BEARING TYPE FOR ALL BEAM, COLUMN, AND JOIST CONNECTIONS
  ASTM F1554, GRADE 36 FOR ALL ANCHOR BOLTS
- 5. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1 AND SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY STANDARDS.
- 6. WELDING ELECTRODES SHALL BE E-70XX OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION.
- 7. COORDINATE STRUCTURAL DRAWINGS WITH ALL DRAWINGS FOR CLEARANCES, ATTACHMENTS, ETC.
- 8. ALL STRUCTURAL STEEL THAT IS NOT HOT DIPPED GALVANIZED SHALL RECEIVE ONE SHOP COAT OF PRIMER PAINT SSPC-PAINT 15 RED IRON
- 9. ALL STRUCTURAL STEEL MEMBERS EXPOSED TO THE EXTERIOR SHALL BE HOT DIP GALVANIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, MASONRY LINTELS AND SHELF ANGLES AND ANY OTHER ITEM INDICATED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- 10. PROVIDE ANGLE WALL ANCHORS, PER PART 4, AISC MANUAL OF STEEL CONSTRUCTION, FOR BEAMS BEARING ON MASONRY WALLS. ANGLE ANCHORS SHALL BE WELDED TO BEAMS.
- 11. STEEL BEAMS SHALL BEAR A MINIMUM OF 8" ON MASONRY, UNLESS NOTED OTHERWISE.
- 12. CONNECTIONS: WELD OR BOLT CONNECTIONS, AS INDICATED:
- A. CONNECTIONS NOT DETAILED ON THE DRAWINGS SHALL CONFORM TO THE REQUIREMENTS OF THE CITED AISC SPECIFICATION.
- B. WHERE THE REACTION VALUES OF BEAMS ARE NOT SHOWN ON THE DRAWINGS, EACH END CONNECTION SHALL BE DESIGNED TO SUPPORT 60% OF THE TOTAL UNIFORM LOAD CAPACITY DERIVED FROM THE ASD VALUE OF THE TABLES AND FORMULA OF THE MAXIMUM TOTAL UNIFORM LOAD IN PART 3, THIRTEENTH EDITION, OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE GIVEN MEMBER SIZE, SPAN, AND YIELD STRENGTH.
- C. THE MINIMUM LENGTH OF CONNECTION ANGLES SHALL BE EQUAL TO ONE-HALF THE DEPTH OF THE MEMBER TO BE SUPPORTED.
- D. THE MINIMUM NUMBER OF BOLTS IN BOLTED CONNECTIONS SHALL BE TWO (2) BOLTS.
- E. MINIMUM ¼" FILLET WELD SHALL APPLY UNLESS NOTED OTHERWISE.
- F. MINIMUM SIZE OF CLIP ANGLE SHALL BE 3x3x5/16" UNLESS NOTED OTHERWISE.
- G. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING ENGINEERED CALCULATIONS AND DETAILS STAMPED BY A PROFESSIONAL ENGINEER IN THE STATE OF OHIO FOR ALL MOMENT CONNECTIONS FOR APPROVAL BY E.O.R. ANY WELD AND PLATE SIZES NOTED ON STRUCTURAL DRAWINGS ARE MINIMUM SIZES.
- 14. ALL COLUMNS SHALL HAVE A MINIMUM OF FOUR (4) ANCHOR BOLTS.
- 15. BEAMS SHALL BE ERECTED STRAIGHT. SWEEPS SHALL BE A MAXIMUM OF 1" MEASURED AT MID SPAN OF BEAMS.
- 16. THE FRAMING SHALL BE CARRIED UP TRUE AND PLUMB AND TEMPORARY BRACING SHALL BE INSTALLED AND SHALL REMAIN IN PLACE UNTIL CONNECTIONS OF ALL MEMBERS ARE FINAL AND ALL DECK IS COMPLETELY ERECTED AND WELDED IN PLACE.
- 17. NON-METALLIC, NON-SHRINK GROUT UNDER ALL COLUMN PLATES AND BEAM BEARINGS SHALL COMPLY WITH ALL REQUIREMENTS OF ASTM C
- 18. ALL STRUCTURAL STEEL MEMBERS ADJACENT TO OR BUILT INTO MASONRY CONSTRUCTION SHALL BE PROVIDED WITH 12 GAGE GALVANIZED WELD-ON CHANNEL SLOTS AND 3/16 X 1-1/4 GALVANIZED ANCHORS.
- 19. COLUMN BASES SHALL BE MILLED FOR ALL BEARING SURFACES INCLUDING AT THE BASE PLATE CONNECTION. COLUMN BASE PLATES 2" OR LESS IN THICKNESS MAY BE USED WITHOUT MILLING. COLUMN BASE PLATES GREATER THAN 2" SHALL BE MILLED FOR ALL BEARING SURFACES.

## STRUCTURAL WOOD:

- 1. DETAIL, FABRICATE AND ERECT STRUCTURAL WOOD IN ACCORDANCE WITH THE ATS NATIONAL DESIGN SPECIFICATIONS AND THE GOVERNING BUILDING CODE.
- 2. ALL STRUCTURAL FRAMING MEMBERS SHALL BE SPF NO. 1/NO. 2 OR BETTER, U.N.O.
- 3. PLYWOOD ROOF DECK SHALL BE APA STRUCTURAL RATED SHEATHING 40/20, EXPOSURE 1, 3/4" U.N.O.
- 4. PLYWOOD WALL SHEATHING SHALL BE APA STRUCTURAL RATED SHEATHING 32/16, EXPOSURE 1, 1/2" U.N.O.
- 5. NAIL ROOF DECK AND WITH 10d COMMON NAILS AT 4" O.C. ALONG EDGES AND BOUNDARY ELEMENTS. SPACE NAILS 6" O.C. ALONG INTERMEDIATE SUPPORTS (FIELD NAILING).
- 6. USE PRESSURE TREATED LUMBER WHERE WOOD IS EXPOSED TO WEATHER, MOISTURE, CONCRETE, MASONRY OR THE GROUND.

## COMPOSITE WOOD PRODUCTS:

- DETAIL, FABRICATE AND ERECT COMPOSITE WOOD PRODUCTS IN ACCORDANCE WITH THE ATS NATIONAL DESIGN SPECIFICATIONS, GOVERNING BUILDING CODES AND MANUFACTURER'S REQUIREMENTS AND CONTRACT DOCUMENTS.
- 2. ALL COMPOSITE WOOD PRODUCTS SHALL BE FRAMED WITH SIMPSON STRONG-TIE CONNECTORS.
- 3. MANUFACTURER SHALL DETAIL AND PROVIDE ALL REQUIRED CONNECTORS AS PART OF THE COMPOSITE WOOD PRODUCT SYSTEM. MANUFACTURER TO SIZE REQUIRED CONNECTORS FOR REVIEW BY ENGINEER.
- 4. ENGINEERED I-JOISTS AND LVL LUMBER SHALL CONFORM TO STANDARDS SET FORTH IN NES REPORTS NER-200
- 5. PRODUCTS SHALL BE PROVEN BY TESTING AND EVALUATION IN ACCORDANCE WITH THE PROVISIONS OF ASTM D-5055.
- 6. PRODUCTS SHALL PERFORM TO OR BETTER THAN THOSE MANUFACTURED BY TRUS JOIST MACMILLAN AND BOISE CASCADE.

## PREFABRICATED WOOD TRUSSES:

- 1. DETAIL, FABRICATE AND ERECT STRUCTURAL WOOD IN ACCORDANCE WITH THE TPI STANDARDS AND THE GOVERNING
- 2. TRUSS DESIGN DOCUMENTS SHALL BEAR THE STAMP OF AN ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.
- 3. DESIGN DEAD, LIVE AND WIND LOADS SHALL BE DEVELOPED FROM THE CRITERIA SHOWN ON THE CONTRACT DOCUMENTS AND SHALL NOT BE LESS THAN:

  TOP CHORD= 25 PSF LIVE LOAD + SNOW DRIFT LOADS (WHERE SHOWN ON FRAMING PLAN) NO REDUCTIONS.
  - BOTTOM CHORD= 10 PSF DEAD LOAD
- THE TRUSS DESIGNER SHALL COMBINE LOADS PER O.B.C. REQUIREMENTS.

10 PSF DEAD LOAD

- 4. THE ROOF DECK IS DESIGNED TO TRANSFER HORIZONTAL WIND LOAD TO SHEAR WALLS.
- 5. PROVIDE MINIMUM TRUSS BRACING AS FOLLOWS:

  BOTTOM CHORD HORIZONTAL LATERAL BRACES USING CONTINUOUS 2x4 PERPENDICULAR TO BOTTOM CHORD AT

  10'-0" O.C.(MAX) ADJACENT TO WEB MEMBER, WEB MEMBER VERTICAL BRACES USING 2x4 AT 45^ TO WEB MEMBER

  EXTENDING FROM TOP CHORD TO BOTTOM CHORD, SPACED APART TWO TIMES LENGTH OF 'X' BRACE AND AT ENDS OF

  BUILDING, LOCATED ACROSS TRUSS BOTTOM CHORD LATERAL BRACES AND 8' MAXIMUM APART ON FLOORS, 12'

  MAXIMUM APART ON ROOFS AND ALL LATERALLY BRACED MEMBERS.
- 6. ALL TRUSSES SHALL BE FRAMED WITH SIMPSON STRONG-TIE HANGERS AND HOLDDOWNS.
- 7. TRUSS MANUFACTURER TO SIZE REQUIRED CONNECTORS FOR REVIEW BY ENGINEER.

## COLD FORMED METAL FRAMING (LIGHT GAUGE STUDS)

- THE COLD-FORMED METAL FRAMING SHALL BE COMPLETELY DESIGNED AND SUPPLIED BY THE CONTRACTOR
  FOR ALL GRAVITY, LATERAL, AND OTHER LOADS INDUCED BY THE BUILDING MATERIALS SHOWN ON THE
  PROJECT DRAWINGS, AND THE DESIGN LOADS APPLIED IN ACCORDANCE WITH THE BUILDING CODE LISTED
  IN GENERAL STRUCTURAL NOTES.
- 2. MEMBER SECTION PROPERTIES AND ALLOWABLE STRESSES SHALL BE CALCULATED IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE A.I.S.I. "DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- 3. SHOP DRAWINGS AND SUPPORTING CALCULATIONS FOR THE COLD- FORMED METAL FRAMING SYSTEM SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OHIO.
- 4. WALL STUD BRIDGING SHALL BE PROVIDED IN A MANNER TO PREVENT STUD ROTATION, SPACED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION. MAXIMUM SPACING SHALL BE 5'-0" ON CENTER FOR LATERALLY LOADED WALL S AND 3'-4" ON CENTER FOR AXIALLY LOADED WALLS.
- 5. PROVIDE WEB STIFFENERS AT HORIZONTAL AND VERTICAL REACTION POINTS.
- 6. PROVIDE ALL HORIZONTAL AND VERTICAL ATTACHMENT MECHANISMS WHERE REQUIRED.
- 7. PROVIDE JACK STUDS OR CRIPPLES BELOW WINDOW SILLS, AND ABOVE WINDOW AND DOOR HEADS. THESE SHALL BE SECURELY ATTACHED TO SUPPORTING MEMBERS.
- 8. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF AWS D1.3, "STRUCTURAL WELDING CODE SHEET STEEL."
- 9. TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE
- 10. ERECT FRAMING PLUMB, LEVEL AND SQUARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS
- 11. ALL COLD-FORMED METAL FRAMING SHALL CONFORM TO:
  PAINTED SECTIONS; 12, 14 & 16 GA A570 Fy = 50,000 PSI
  PAINTED SECTIONS; 18 & 20 GA AG11 GD C Fy = 33,000 PSI
  GALVANIZED SECTIONS; 12, 14, & 16 GA A446 GD D Fy = 50,000 PSI
  GALVANIZED SECTIONS; 18 & 20 GA A446 GD A Fy = 33,000 PSI

### SPECIAL INSPECTIONS:

REINFORCEMENT:

- ROUTINE INSPECTION AND TESTING SERVICES SHALL BE PROVIDED BY AN INDEPENDENT TESTING
  LABORATORY PER ASTM E329 AND LATEST OHIO BUILDING CODE. REPORTS SHALL BE SENT DIRECTLY TO THE OWNER, A
  ARCHITECT, STRUCTURAL ENGINEER AND CONTRACTOR. CONCRETE TEST REPORTS SHALL ALSO BE SENT TO THE READY
  MIX SUPPLIER. THESE SERVICES SHALL INCLUDE THE FOLLOWING:
- 2. SOILS: VERIFY DESIGN BEARING CAPACITY, VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL DESIGN MIX DATA, DAILY POUR REPORTS, CYLINDER TESTS.
- DESIGN TEX DATA DATE FOOR REPORTS, CHEMDER TESTS.
- CONCRETE: DESIGN MIX DATA, DAILY POUR REPORTS, CYLINDER TESTS, RAMMED AGGREGATE PIER INSTALLATION.

PLACEMENT.

5. STRUCTURAL STEEL: PLACEMENT AND CONNECTION.

## SHOP DRAWINGS

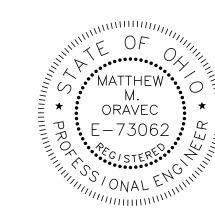
- 1. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
- 2. DRAWINGS CREATED BY ORAVEC DESIGN BUILD, LCC CANNOT BE REPRODUCED AND/OR USED AS A SHOP
- 3. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
- A. CONCRETE MIX DESIGNS
  B. REINFORCING STEEL
- C. STRUCTURAL STEEL

## MISCELLANEOUS

- 1. ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
- 3. DO NOT SCALE THE DRAWINGS.

## DELEGATED DESIGN ITEMS

- .. ALL COLD FORM FRAMING IS A DELEGATED DESIGN ITEM TO BE COORDINATED BY GENERAL CONTRACTOR.
- A. COLD FORM WALL FRAMINGB. COLD FORM HEADERS AND SUPPORT POSTS
- C. COLD FORM SHEAR WALLS, DETAILING, AND CONNECTION TO STEM WALLS



PRINTS FULL SCALE
ON 24"X36" SHEET

B EXPRESS

FAGING AND TRANSITION FACIL

800 VALLEY ROAD

TRUCTURAL

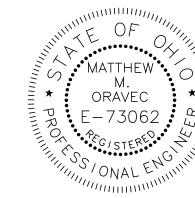
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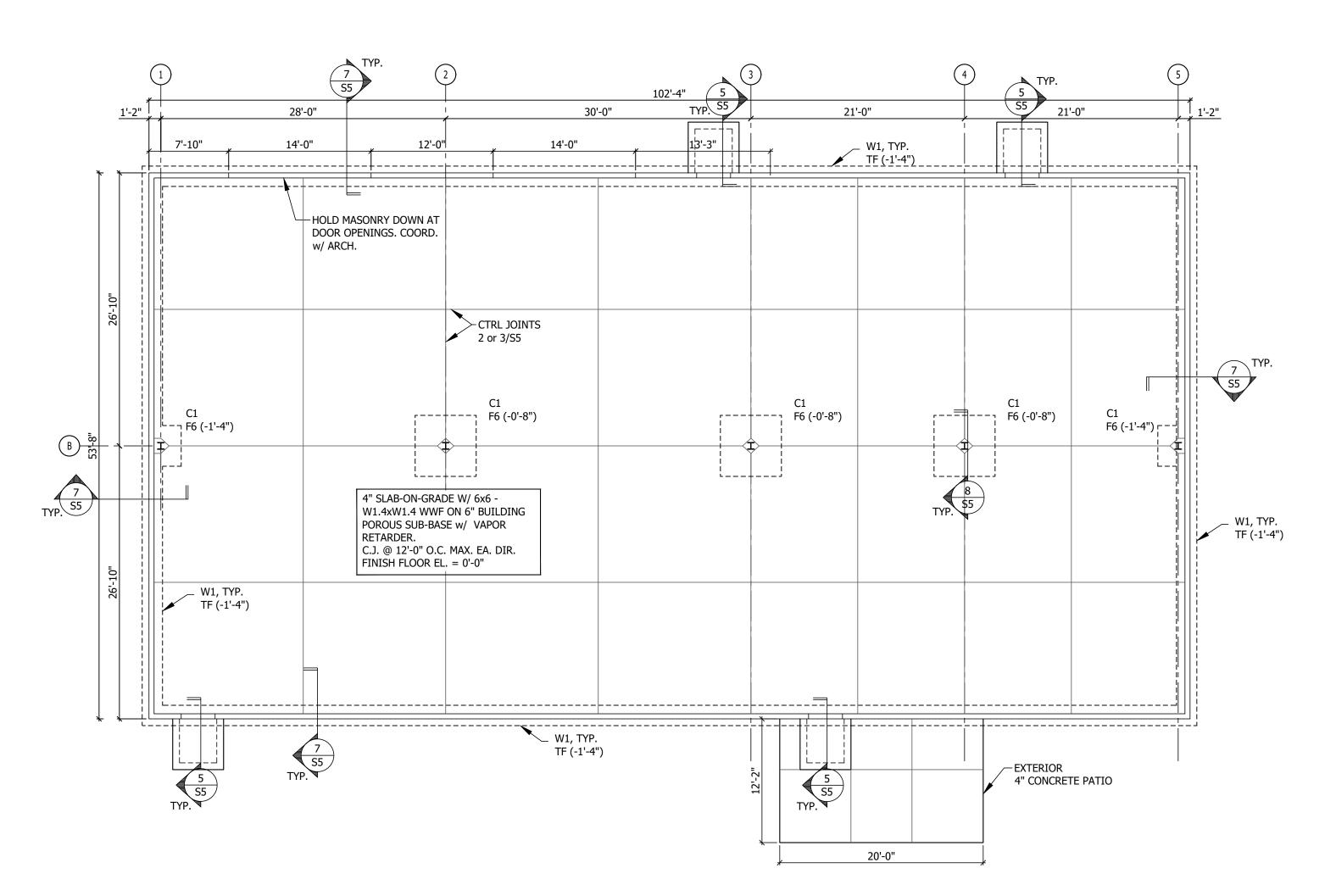
PA PROJECT NO.

CURRENT DATE: 07.18.23

52



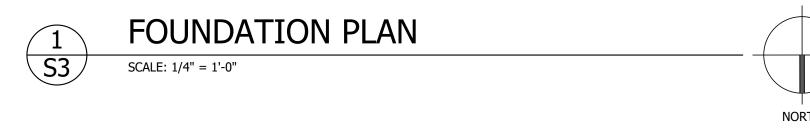




	COLUMN FOOTING SCHEDULE											
MARK	D	IMENSION	IS	REINFORCEMENT	REMARKS							
MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT	KEMARKS							
F4	4'-0"	4'-0"	2'-6"	5 - #4 E.W. TOP & BOTT.	BOTT. OF FOOTING ELEV = (-3'-6") BELOW EXT GRADE.							
F6	6'-0"	6'-0"	1'-6"	7 - #6 E.W. TOP & BOTT.								

	WALL FOOTING SCHEDULE									
MARK	D:	IMENSION	IS	REINFORCEMENT	REMARKS					
MARK	WIDTH	LENGTH	DEPTH	REINFORCEMENT	REMARKS					
W1	2'-0"	-	2'-6"	(3) - #5 x CONT. TOP & BOTTOM	BOTT. OF FOOTING ELEV = (-3'-6") BELOW EXT GRADE.					

S	TEEL COLUM	N SCHEDULE
COLUMN	TYPE	NOTES
C1	W8x31	SEE S5 FOR TYPICAL DETAIL FOR BASE PLATE SIZE.



## FOUNDATION NOTES

- A) CONTRACTOR SHALL PROVIDE FROST AND MOISTURE PROTECTION FOR FOOTINGS EXPOSED DURING CONSTRUCTION
- B) REFER TO ARCHITECTURAL DRAWINGS OR PLUMBING DRAWINGS FOR SPECIFIC FLOOR DRAIN LOCATIONS & ELEVATIONS
- C) COORDINATE WALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS
- D) FOOTING EXCAVATIONS SHALL BE EXAMINED BY THE GEOTECHNICAL ENGINEER TO CONFIRM THAT THE SOILS AT THE BOTTOM OF THE EXCAVATION ARE COMPETENT FOR 2000 psf BEARING PRESSURE.
- E) SEE S5 FOR MISC. DETAILS NOT CUT ON PLAN
- F) NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION
- G) ELEV. NOTED THUS (±X'-X") ON PLAN ARE REFERENCED FROM F.F. = 0'-0" SEE SITE PLAN FOR FINISH FLOOR ELEVATION.
- H) FOOTINGS ARE CENTERED UNDER COLUMN U.N.O. COLUMNS ARE CENTERED ON COLUMN LINES U.N.O.
- I) REFER TO ARCHITECTURAL DRAWING FOR LOCATIONS AND DIMENSIONS OF ALL FROST SLABS PRIOR TO CONSTRUCTION
- J) ALL DIMENSIONS ARE FOR GENERAL INFORMATION PURPOSES ONLY. COLUMN CENTERLINES AND COLUMN BEARING ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
- K) BOTTOM OF FOOTING MUST BE MAINTAINED AT (-3'-6") BELOW EXTERIOR GRADE ALONG EXTERIOR WALLS
- L) IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. IT IS NOT INTENDED THAT THE STRUCTURAL DRAWINGS BE USED INDEPENDENTLY OF THE ARCHITECTURAL DRAWINGS. ANY DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

## STUD WALL CONNECTION

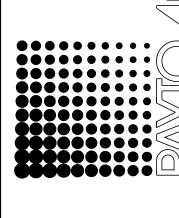
PROVIDE 5/8"¢ ADHESIVE ANCHORS w/ MIN. 6" EMBEDMENT AT 2'-8" ALONG FOUNDATION WALL AND 1'-0" MAXIMUM FROM ALL CORNERS OR OPENINGS TO ANCHOR STUD WALL TO FOUNDATION. 2x6 BOTTOM PLATE SHALL BE TREATED SOUTHERN YELLOW PINE.

SEE 11/S5 FOR SHEAR WALL SCHEDULE AND DETAIL.

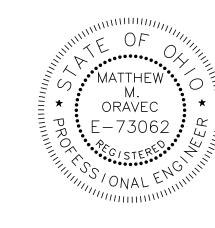
PRINTS FULL SCALE ON 24"X36" SHEET

07.18.23

ISSUE DATE:



PA PROJECT NO. CURRENT DATE: 07.18.23



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PRINTS FULL SCALE ON 24"X36" SHEET

07.18.23

102'-4" TRUSS BEARING EL = +18'-0" -TRUSS BEARING EL = +12'-0'CF3 CF3 CUSTOM CANOPY DESIGN BY COLD FORM - CUSTOM CANOPY ENGINEER. COLD FORM ENGINEER TO DESIGN BY COLD FORM PROVIDE ADEQUATE ANCHORAGE FOR CANOPY ATTACHMENT. SEE ARCH FOR DIMS. +18'-0" BRG LOW ROOF = +12'-0" BRG ENGINEER. COLD FORM ENGINEER TO PROVIDE FULL HEIGHT 6" COLD FORM ADEQUATE ANCHORAGE WALL W/ OSB PLYWOOD FINISH FOR CANOPY ATTACHMENT FULL HEIGHT 6" COLD FORM SNOW DRIFT WALL w/ OSB PLYWOOD FINISH L — INTERIÓR COLD FORM PARTITION WALLS W24x55 W24x55 W24x55 MONO SLOPE PRE-ENGINEERED MONO SLOPE PRE-ENGINEERED WOOD ROOF TRUSSES @ 24" o.c. WOOD ROOF TRUSSES @ 24" O.C. FULL HEIGHT 6" COLD FORM

	HEADER SCHEDULE											
HEADER	TYPE	MISC.	COMMENTS									
CF1	(3) 1200S162-97 ((3) C8x12 GA)	(2) SHOULDER STUD & (2) FULL HEIGHT STUD @ EACH END	BOX BEAM TYP. @ LIGHT GAUGE STEEL FRAMED OPENINGS									
CF2	(3) 1000S162-97 ((3) C8x12 GA)	(2) SHOULDER STUD & (1) FULL HEIGHT STUD @ EACH END	BOX BEAM TYP. @ LIGHT GAUGE STEEL FRAMED OPENINGS									
CF3	(3) 800S162-97 ((3) C8x12 GA)	(2) SHOULDER STUD & (1) FULL HEIGHT STUD @ EACH END	BOX BEAM TYP. @ LIGHT GAUGE STEEL FRAMED OPENINGS									

NOTE: COLD FORM FRAMING SCHEDULE IS FOR PRICING PURPOSES ONLY! HEADERS AND POSTS NOT DESIGNED FOR INTENDED LOADING OR FOR CONSTRUCTION.

# ROOF FRAMING PLAN

## FRAMING NOTES

- 1 HANGERS FOR ALL TRUSSES AND LVL BEAMS BY TRUSS MANUFACTURER.
- 2 3/4" APA RATED SHEATHING (40/20 RATING) SHALL BE ATTACHED TO THE TOP CHORD OF THE ROOF TRUSSES AND RAFTERS WITH 10D NAILS @ 6" O.C. ALONG PANEL EDGES, AT BUILDING WALL PERIMETER, & AT BUILDING ROOF PERIMETER. FASTEN AT 12" O.C. TO INTERMEDIATE MEMBERS. STAGGER PANEL EDGES.
- 3 COORDINATE WALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 4 SEE S1 AND S2 FOR GENERAL STRUCTURAL NOTES.
- PROVIDE 2-2x6 BLOCKING UNDER ROOF TOP UNIT CURBS AND AROUND OPENINGS THROUGH ROOF DECK. PROVIDE 2x4 TRUSS STIFFENERS WHERE BLOCKING DOES NOT ALIGN WITH TRUSS TOP CHORD PANEL POINT. VERIFY SIZE, WEIGHT, ORIENTATION AND LOCATION OF ALL UNITS WITH MECHANICAL DRAWINGS.
- 6 NO PROVISION HAS BEEN MADE FOR FUTURE EXPANSION.
- REFER TO THIS SHEET FOR PRICING SHEAR WALL SCHEDULE. FINAL SHEAR WALL DESIGN BY OTHERS
- 8 G.C. TO PROVIDE TRUSS DESIGNER WITH ANY MECHANICAL LOADS/INFORMATION THAT IMPACT TRUSS DESIGN.
- 9 TRUSS LAYOUT ON THE ROOF FRAMING PLAN (1/S4) IS PROVIDED FOR CONCEPTUAL DESIGN ONLY. MFR SHALL SUBMIT SHOP DWGS AND CALCS, BOTH SIGNED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF OHIO. SUBMIT SHOP DWGS AND CALCS TO THE ARCHITECT AND ENGINEER FOR REVIEW AND SUBMITTAL AND , IF REQUIRED, TO BLDG OFFICIAL FOR APPROVAL PRIOR TO FABRICATION. SHOP DWGS SHALL INCLUDE LAYOUT PLAN AND CONNECTORS. CALCS SHALL BE BASED ON THE SPECIFIED LOADING CONDITIONS SHOWN HEREIN. MFR SHALL PROVIDE HANGERS AND CONNECTIONS BETWEEN TRUSSES. REVIEW AND APPROVE DIMENSIONS, SHAPES AND DETAILS SHOWN ON SHOP DWGS PRIOR TO SUBMITTAL TO THE ARCHITECT / ENGINEER FOR REVIEW AND COMMENT.
- 10 JOIST SIZES HAVE BEEN SELECTED BASED UPON THE FOLLOWING LOADS, UNLESS OTHERWISE NOTED:

LIVE LOAD = 30 PSF + DRIFT $DEAD\ LOAD = 20\ PSF$ 

- 11 USE JOIST HANGERS DESIGNED FOR GIVEN MEMBER SIZE TO SUPPORT ALL RAFTERS/HEADERS FRAMING INTO SIDES OF OTHER MEMBERS.
- 12 7/16" APA RATED SHEATHING SHALL BE ATTACHED TO THE OUTSIDE FACE OF EXTERIOR WALLS WITH #10 SCREW @ 6" O.C ALONG EDGES AND 12" O.C. ALONG INTERMEDIATE MEMBERS U.N.O. ON FRAMING PLAN.
- 13 JOIST BEARING ELEVATIONS NOTED ON PLAN ARE REFERENCED FROM FINISH FLOOR ELEVATION = 0'-0''.
- 14 JOIST SUPPLIER SHALL BE RESPONSIBLE FOR PROVIDING BRIDGING AND ANY BLOCKING WHICH COMPLIES MANUFACTURER'S REQUIREMENTS.

- 15 SEE S2 FOR FOR COLD FORM FRAMING NOTES. SEE S6 FOR COLD FORM FRAMING DETAILS.
- 16 COORDINATE WALL AND EXTERIOR WALL FINISH DIMENSIONS WITH ARCHITECTURAL DRAWINGS. VERIFY STUD WALL DIMESIONS WITH ARCHITECTURAL DRAWINGS.

	WALL SHEATHING AND SHEAR WALL SCHEDULE									
SW	SHEATHING	EDGE	FIELD	SIMPSON HOLDOWN w/ ANCHOR		REMARKS				
1>	7/16" APA RATED WALL SHEATHING (24/16)	#10 @ 6" O.C.	#10 @ 12" O.C.	SIMPSON S/HDU4 w/ 2 - 600S162-43 STUDS EA. END w/ 5/8"ø ANCHOR BOLT		PLYWOOD or ZIP SHEATHING ON EXTERIOR FACE OF STUDS				
***	7/16" APA RATED WALL SHEATHING		#10 @ 12" O.C.							

TRUSS BEARING EL = +12'-0"

- \*\*\* REQUIREMENTS FOR EXTERIOR NON-SHEARWALL WALLS
- 1. BLOCK ALL UNSUPPORTED EDGES WITH 2x MATERIAL U.N.O. BLOCK EDGES WITH 3x MATERIAL WHERE 10d NAILING IS 3" O.C. OR LESS AND 8d NAILING IS 2" O.C. OR LESS. ALL PLYWOOD NAILS SHALL BE COMMON WIRE. SEE SPECIFICATIONS FOR OTHER NAIL REQUIREMENTS.

WALL w/ OSB PLYWOOD FINISH —

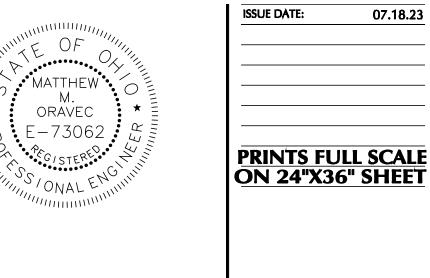
- TRUSS BEARING EL = +18'-0"

- 2. EXTERIOR WALLS NOT DESIGNATED AS SHEARWALLS IN THE WALL FRAMING PLAN SHALL MEET REQUIREMENTS INDICATED FOR NON-SHEARWALL WALLS IN THE SCHEDULE ABOVE. 7. NO POST INSTALLED ANCHORS WILL BE PERMITTED FOR HOLDOWN ANCHORS. SHEARWALL LENGTHS WHERE NOTED ARE MINIMUM. DO NOT LOCATE HOLDOWNS FROM
- 3. THESE DIMENSIONS. SEE ARCH DWGS FOR ACTUAL WALL LENGTHS. HD REFERS TO SIMPSON STRONGTIE CO. HOLDOWNS. INSTALL PER 125/S8.
- 4. POST WIDTH SHALL MATCH STUD WALL WIDTH. SEE FOUNDATION PLAN FOR OTHER REQ'S.
- 5. EDGE NAIL WALL PLY TO STUDS OR POSTS WITH HOLD-DOWNS.
- 6. WHERE PANELS ARE APPLIED TO BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, PANEL JOINTS SHALL BE OFFSET TO WALL ON DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3x OR THICKER AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- COORDINATE LAYOUT PRIOR TO CONCRETE POUR. 8. SHEAR WALL SCHEDULE IS FOR PRICING PURPOSES ONLY. FINAL SHEAR WALL DESIGN AND DETAILING TO BE PROVIDED BY COLD FORM FRAMING ENGINEER AS A DELEGATED

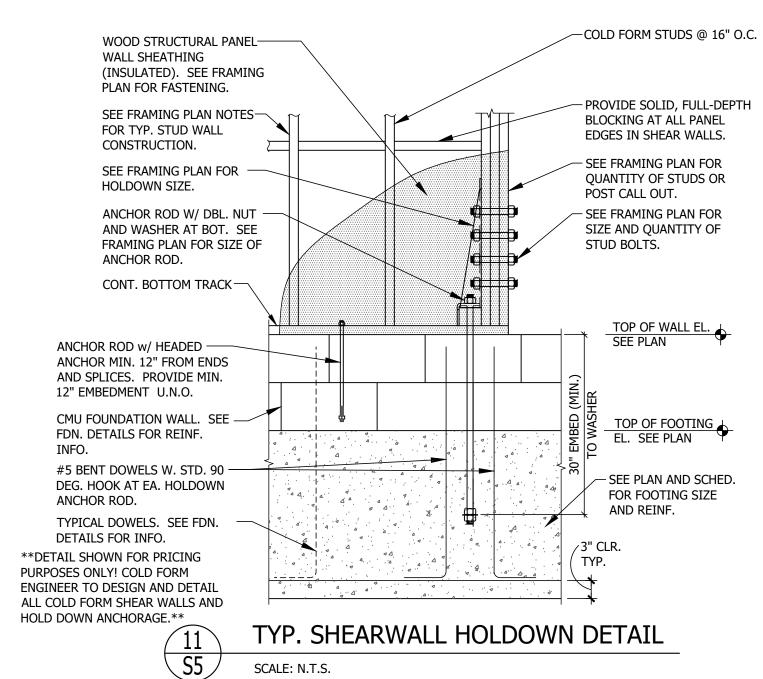
- 17 ALL COLD FORM FRAMING IS A DELEGATED DESIGN ITEM TO BE DESIGNED AND DETAILED BY SPECIALTY COLD FORM ENGINEER. SHOP DRAWINGS TO BE PREPARED AND SUBMITTED FOR APPROVAL.
- 18 IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE BETWEEN THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS. IT IS NOT INTENDED THAT THE STRUCTURAL DRAWINGS BE USED INDEPENDENTLY OF THE OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

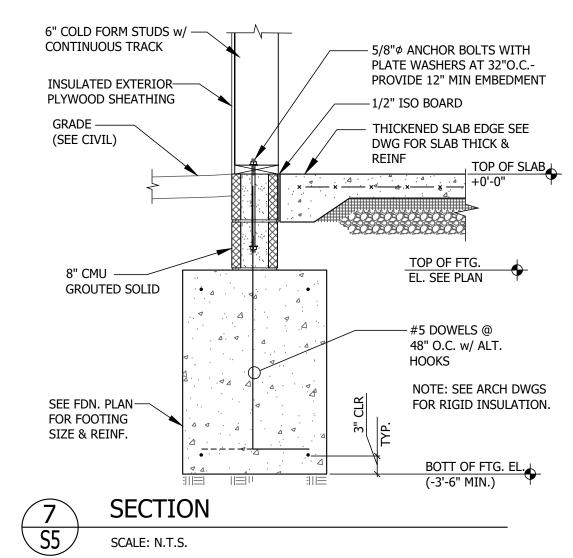
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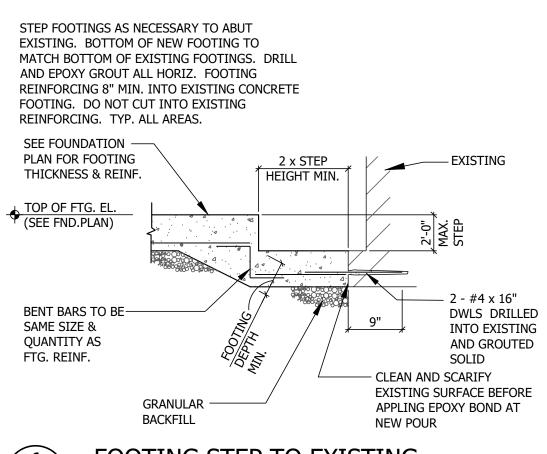
PA PROJECT NO. CURRENT DATE: 07.18.23

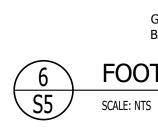


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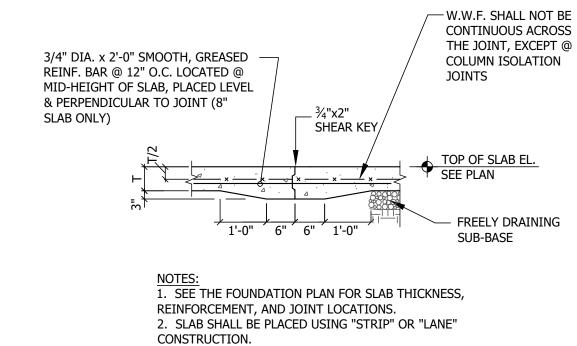






LAP - 2'-4"

FOOTING STEP TO EXISTING

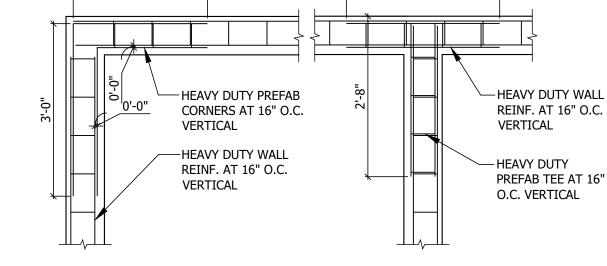


**SLAB ON GRADE** 

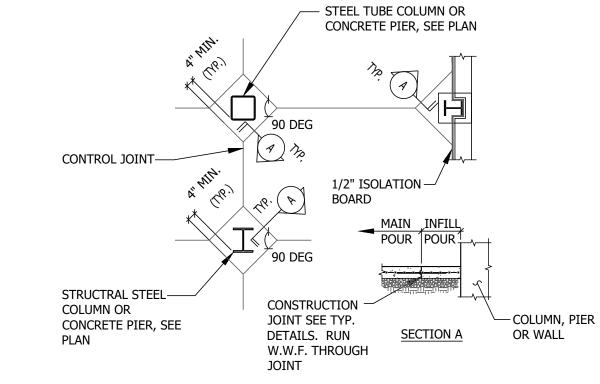
SCALE: N.T.S.

S5

**CONSTRUCTION JOINT** 



HORIZONTAL MASONRY WALL REINFORCEMENT SCALE: N.T.S.



TYPICAL SLAB ON GRADE ISOLATION JOINTS @ COLUMN SCALE: N.T.S.



REMOVEABLE PLASTIC OR — HARDBOARD PRE-FORMED - DEPTH TO BE THE STRIP, OR SAWCUT JOINT AS SMALLER OF 1/4 THE SOON AS SAWCUT WILL NOT SLAB THICKNESS OR 2". RAVEL CONCRETE, WITHIN 12 HOURS × - × - × -- W.W.F. (CUT EVERY OTHER WIRE AT JOINT) FREELY DRAINING SUBBASE NOTE:

1. SEE THE FOUNDATION PLAN FOR SLAB THICKNESS, REINFORCEMENT, AND JOINT LOCATIONS. 2. SLAB SHALL BE PLACED USING "STRIP" OR "LANE"

INTERIOR COLUMN FOOTING

| U.N.O.

—1/2" ISO BOARD

- CONSTRUCTION JOINT

SEE TYPICAL DETAILS

TOP OF FTG.

EL. SEE PLAN

- ANCHOR BOLTS

SEE SCHEDULE

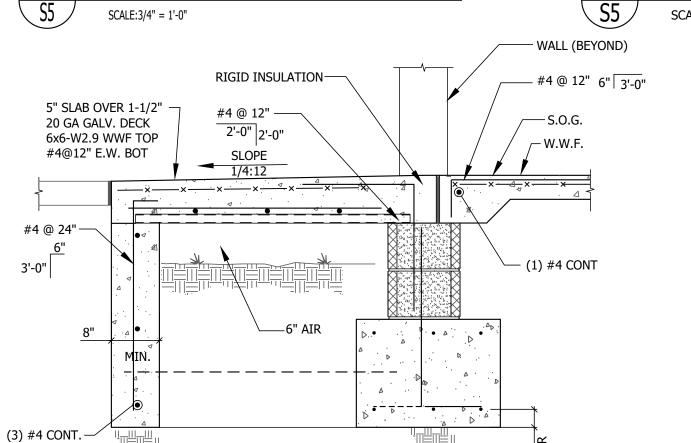
-SEE FOOTING

SCHEDULE FOR

REINFORCING

FOOTING SIZES AND





- HOLES FOR 3/4" DIA.

ANCHOR BOLTS

£ COL.

€ col.

\* 0 \* 0 ^

5 1/2"

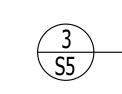
W8 BASE PLATE

PLATE 3/4"x14"x 1'-2"

TYPICAL FROST SLAB SCALE:  $\frac{3}{4}$ " = 1'-0"







SLAB ON GRADE -

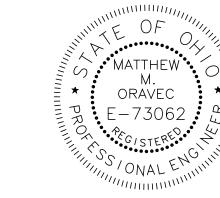
SCALE: N.T.S.

SEE PLAN

S5

•••••• 

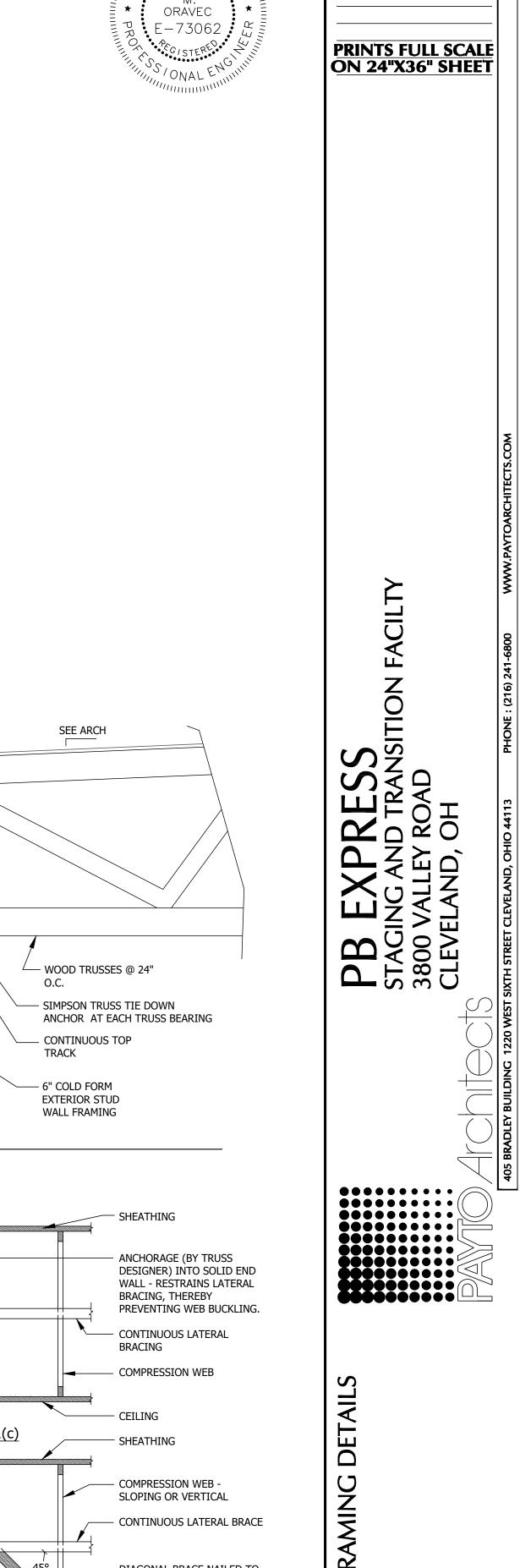
PA PROJECT NO. CURRENT DATE: 07.18.23



SIMPSON H3 @ EA

ISSUE DATE:

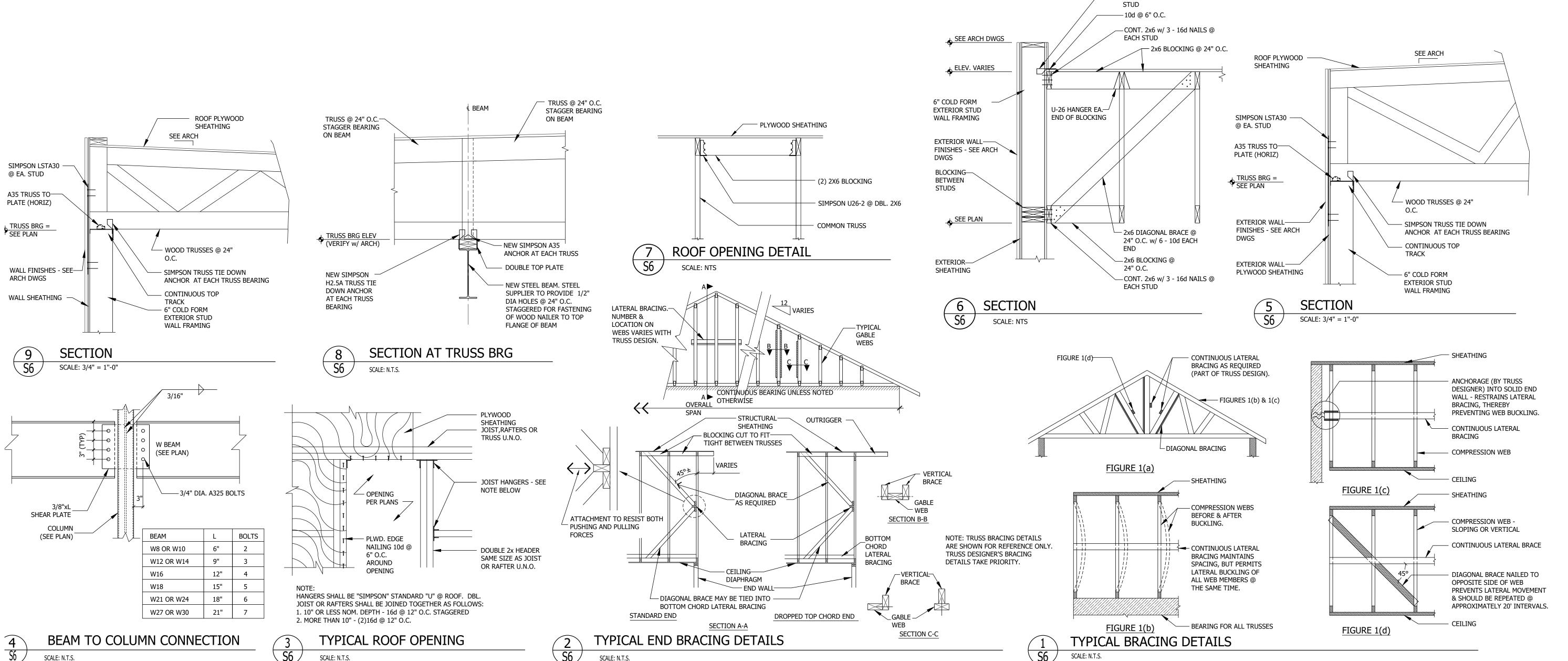
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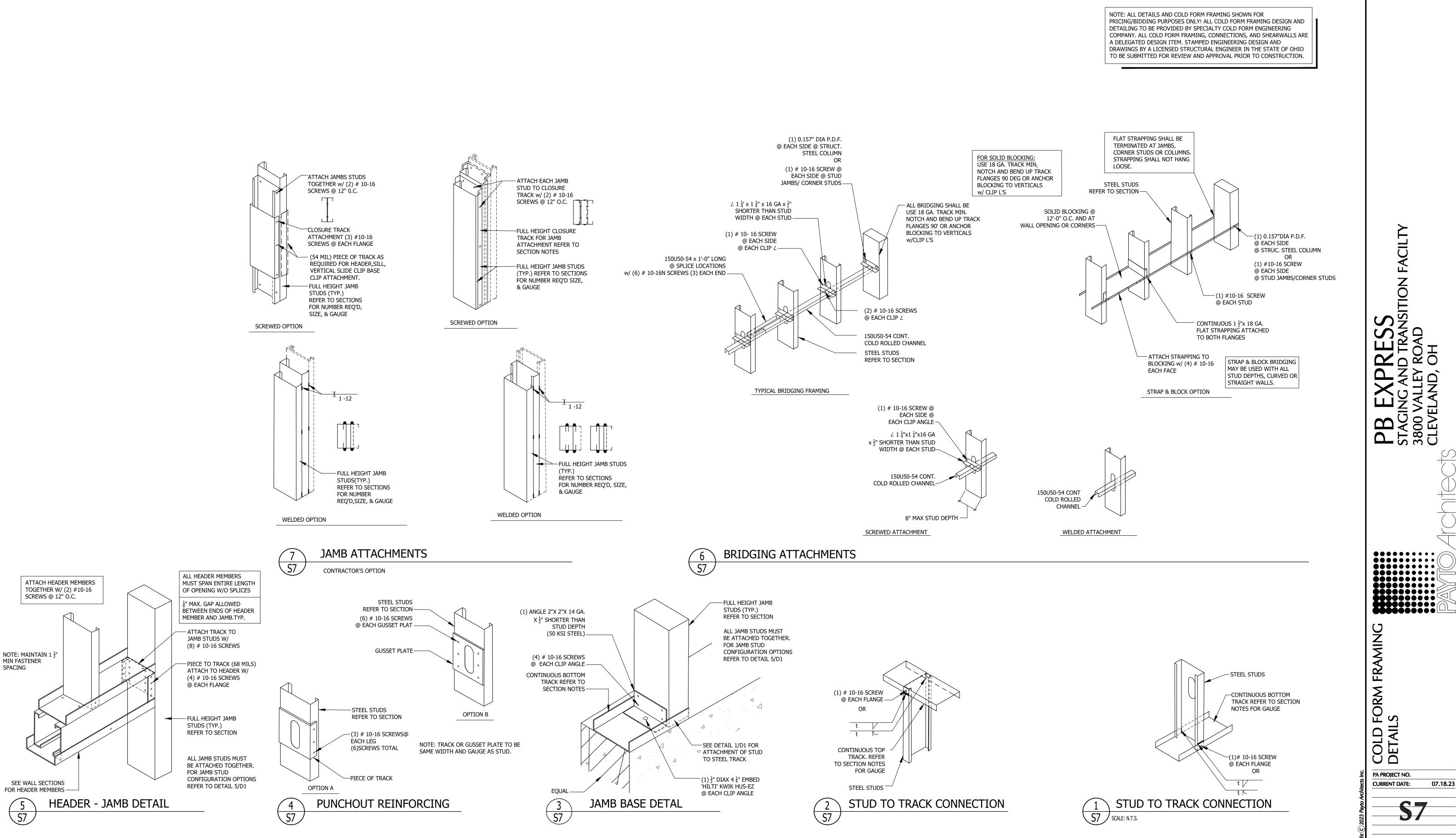


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ORAVEC E-73062

ISSUE DATE:

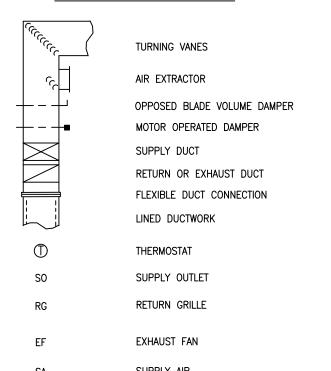
PRINTS FULL SCALE ON 24"X36" SHEET

07.18.23

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07.18.23

## **HVAC LEGEND**



RETURN AIR

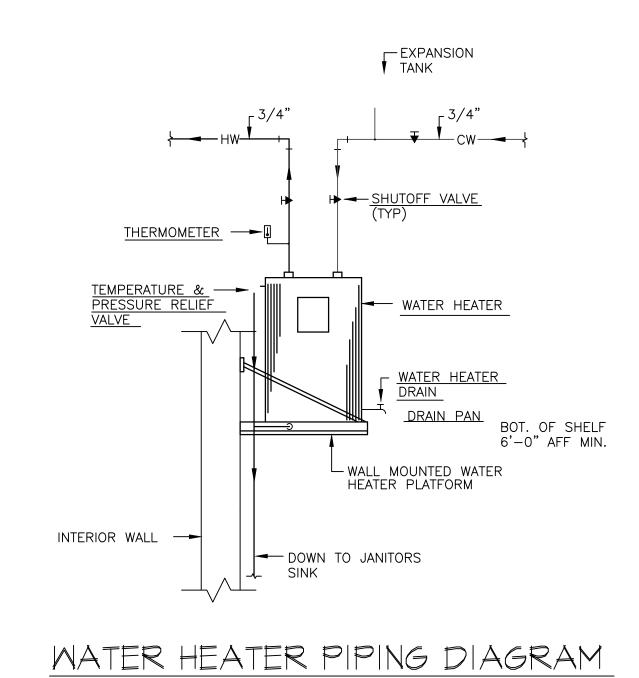
OUTSIDE AIR

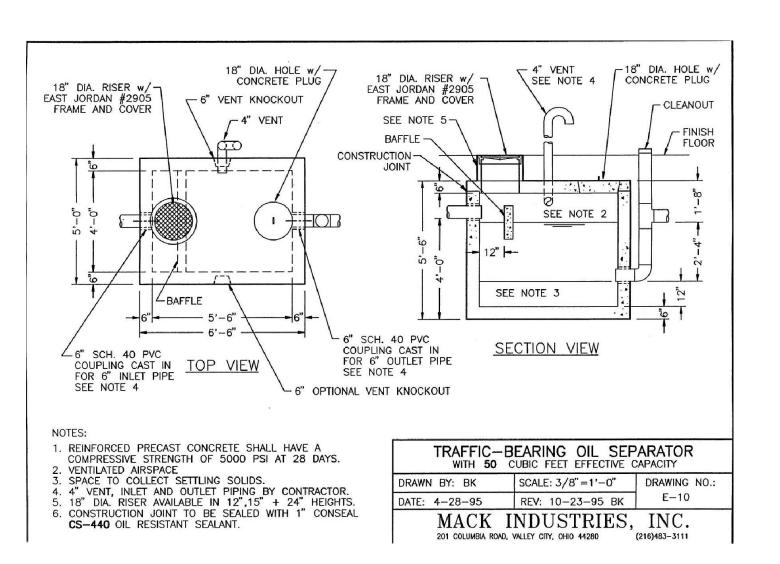
FIRE DAMPER

MOTOR OPERATED DAMPER

## PLUMBING LEGEND

SAN	SANITARY WASTE
— — SAN — —	SANITARY SEWER(UNDERFLOOR)
— — — — —	VENT PIPING
CW	COLD WATER
HW	HOT WATER
——— CA ———	COMPRESSED AIR
——— G ———	NATURAL GAS
<b>──</b>	SHUT-OFF VALVE
N $$	CHECK VALVE
$-\!\!\!-\!\!\!\!-\!\!\!\!\!-\!$	BALANCE VALVE
I I	UNION
	CLEANOUT
VTR	VENT THRU ROOF
P-1,P-2, ETC.	PLUMBING FIXTURE DESIGNATION





OIL SEPARATOR DETAIL

FIX	KTURE CONNECTION	SCH	HED	ULE	•
		SUPF	PLIES	WA	STE
MARK	FIXTURE	HW	CW	SAN	VENT
P-1	WATER CLOSET FLUSH TANK		1/2"	4"	2"
P-2	LAVATORY WALL MOUNT	1/2"	1/2"	1-1/2"	1-1/4"
P-3	SINK BREAK ROOM, DOUBLE BOWL	1/2"	1/2"	1-1/2"	1-1/4"
P-4	UTILITY SINK	1/2"	1/2"	3"	1-1/2"
P-5	MOP SINK	1/2"	1/2"	3"	1-1/2"
P-6	WATER HEATER	3/4"	3/4"	-	-
P-7	TRENCH DRAIN		-	4"	-
P-8	FROST-PROOF HOSE BIB		3/4"		
P-9	FLOOR DRAIN		3/4"		
P-10	OIL INTERCEPTOR		-	4"	2"

## FIXTURE SPECIFICATIONS

P-1/P-1A WATER CLOSET, FLUSH TANK: AMERICAN STANDARD CADET PRO RIGHT HEIGHT 215AA.105.020, 16-1/2" HIGH TOILET, VITREOUS CHINA, FLOOR MOUNTED, 1.28 GPF, ELONGATED BOWL, SIPHON JET, TWO-PIECE GRAVITY FLUSH TANK. AMERICAN STANDARD #5910.110.020, 'COMMERCIAL', EXTRA HEAVY-DUTY TOILET SEAT, WHITE FINISH SOLID POLYPROPYLENE PLASTIC WITH EVERCLEAN SURFACE, OPEN FRONT LESS COVER. MCGUIRE LFH166N3 TOILET SUPPLY ANGLE STOP, CHROME PLATED FINISH, ESCUTCHEON AND FLEXIBLE COPPER RISER. PROVIDE FLOOR FLANGE WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.

P-2 LAVATORY, WALL HUNG: AMERICAN STANDARD #0355.012.020 'LUCERNE' BASIN, WHITE FINISH. AMERICAN STANDARD #6114116.002, 'MONTERREY', SINGLE HANDLE FAUCET. POWERS #LFE480, POWERS #LFE480-00, ASSE 1070, POINT OF USE THERMOSTATIC MIXING VALVE. MCGUIRE #LFH170BV, CHROME POLISHED BRASS FAUCET SUPPLIES, #155A OPEN GRID DRAIN, #8872CB, P-TRAP WITH CLEAN-OUT. PROVIDE FLOOR MOUNTED FIXTURE CARRIER WITH CONCEALED ARMS. PROVIDE BRAIDED STAINLESS STEEL FLEXIBLE SUPPLIES TO AS REQUIRED FOR INSTALLATION.

P-3 SINK, BREAK ROOM, DOUBLE BOWL STAINLESS STEEL: JUST DL-2228-A-GR LEDGE TYPE - DOUBLE BOWL, 18 GAUGE SINK. 3 HOLES, SELF-RIMMING TOP MOUNT GRIP-RIM WITH STAINLESS STEEL MOUNTING CHANNELS, 22" FRONT TO BACK AND 28" LEFT TO RIGHT, 7½" DEEP. AMERICAN STANDARD #4175300.002, 'COLONY SOFT', SINGLE HANDLE FAUCET, CHROME POLISHED BRASS. MCGUIRE 151 STAINLESS STEEL BRASS BASKET STRAINER. #LFH170BV POLISHED BRASS FAUCET SUPPLIES AND #8912CB P-TRAP.

P-5 SERVICE SINK: FIAT MODEL MSB2424 MOLDED STONE. 24"X24"X10" WITH 3" STAINLESS STEEL DRAIN BODY, 24" STAINLESS STEEL BUMPER GUARDS. FAUCET: CHICAGO 897-RCF WALL-MOUNTED MANUAL SINK FAUCET WITH 8" CENTERS, CERAMIC DISC CARTRIDGES, VACUUM BREAKER, INTEGRAL CHECKS AND SERVICE STOPS, WALL ESCUTCHEONS.

P-6 ELECTRIC WATER HEATER: A.O. SMITH MODEL #DEL-20. TWENTY GALLON ELECTRIC WATER HEATER. 120V-1ø 2KW. 10 GPH RECOVERY AT 90°F TEMP. RISE.

P-7 TRENCH DRAIN: ZURN MODEL #Z886 WIDE REVEAL TRENCH DRAIN SYSTEM, 6" WIDE, CHANNELS SHALL BE 80" LONG AND HAVE A 4" THROAT, 4" NO—HUB END OUTLET, TRENCH #8602.

P-8 HOSE BIBB: ZURN MODEL 195XL-VB WALL FAUCET. EXPOSED, ANTI-SIPHON WITH EXTERNAL VACUUM BREAKER, BRONZE INTERIOR COMPONENTS, ROUGH BRONZE EXTERIOR, 3/4" MALE HOSE CONNECTION, WITH BFP-9 HOSE CONNECTION VACUUM BREAKER.

P-9 FLOOR DRAIN: WATTS MODEL NUMBER FD-100-A. EPOXY COATED CAST IRON FLOOR DRAIN WITH ROUND STRAINER. P-10 OIL INTERCEPTOR: SEE DETAIL ON THIS SHEET.

		G	RILLE & DII	FFUSERS		
MARK	MODEL NO.	DAMPER NUMBER	FRAME/ BORDER	PATTERN	FINISH	REMARKS
А	SPD	OPPOSED BLADE	LAY-IN	24"x24" 4-WAY DISCHARGE	BY ARCH	1
В	635	_	SURFACE MOUNT	45° FIXED DEFLECTION	BY ARCH	1

1. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND CEILING TYPES.

NOTE: MODEL NO. ARE BASED ON PRICE. TITUS IS EQUAL. - NECK/MODULE

		CABINET	UNI	ТНЕ	ATER (	ELECT	RIC)	
MARK	MARK SERVICE MOUNTING ARRANGEMEN  DRIVER WALL MOUNT			AMPS	WATTS	POWER	MODEL NO.	REMARKS
CUH-1	DRIVER ENTRANCE	WALL MOUNT	175	14.4	3,000	208-1ø	HF3326TD-RP	1-2

1. INTEGRAL DISCONNECT SWITCH. 2. INTEGRAL THERMOSTAT.

NOTE: MODEL NO. ARE BASED ON MARKEL. CHROMALOX IS EQUAL.

		11	VFRAR	ED HEA	TER	R			
MARK	SERVICE	INPUT	POWER	AMPS	VENT	MODEL NO.	LENGTH	REMARKS	
IRH-1	WAREHOUSE	STRAIGHT TUBE	150,000	120V-1ø	1.7	4"/4"	DET3-40-150	40'	1,2,3

<u>REMARKS</u>

 DISCONNECT SWITCH.
 WALL MOUNTED THERMOSTAT. 3. STANDARD ALUMINUM REFLECTOR NOTE: MODEL NO. ARE BASED ON DETROIT RADIANT.

			OUTDOO	OR AIR CALCUL	ATION			
HVAC MARK	ROOM	AREA/(NET-OCCUPIABLE AREA)	EST. OCCUPANT LOAD	OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR RATE (CFM/SF)	BREATHING ZONE OUTDOOR AIR FLOW	EZ	ZONE OUTDOOR AIRFLOW, VOZ
MARK         ROOM         AREA)         LOAD         RATE (CFM/PERSON)         RATE (CFM/SF)         OUTDOOR AIR FLOW         EZ         AIRFLO           DRIVERS 101         122         1         5         0.06         12         0.8           HVAC-1         DISPATCH 110         400         4         5         0.06         44         1.0           CORRIDOR 120         188         0         5         0.06         11         1.0           OFFICE 111         191         1         5         0.06         17         0.8           OFFICE 112         161         1         5         0.06         15         0.8           HVAC-2         OFFICE 113         163         1         5         0.06         20         0.8		16						
HVAC   ROOM   AREA/(NET-OCCUPIABLE   EST. OCCUPANT   OUTDOOR AIR FLOW   RATE (CFM/SF)   RATE (CFM/SF)   OUTDOOR AIR FLOW   EZ   ZONE   AREA)		44						
	CORRIDOR 120	188	0	5	0.06	11	1.0	11
CORRIDOR 120 188 0 5 0.06 11 1.0  OFFICE 111 191 1 5 0.06 17 0.8  OFFICE 112 161 1 5 0.06 15 0.8  OFFICE 113 163 1 5 0.06 15 0.8	21							
	OFFICE 112	161	1	5	0.06	15	0.8	18
HVAC MARK   ROOM   AREA/(NET-OCCUPIABLE   EST. OCCUPANT   OUTDOOR AIR FLOW RATE (CFM/SF)   OUTDOOR AIR BREATHING ZONE OUTDOOR AIR FLOW RATE (CFM/SF)   OUTDOOR AIR FLOW RATE (CFM/SF)   OUTDOOR AIR FLOW RATE (CFM/SF)		18						
HVAC   ROOM   AREA/(NET-OCCUPIABLE   EST.   OCCUPANT   OUTDOOR AIR FLOW   RATE (CFM/SF)   OUTDOOR AIR FLOW   EZ   ZO   AREA		25						
OFFICE 111 191 1 5 0.06 17 0.8  OFFICE 112 161 1 5 0.06 15 0.8  OFFICE 113 163 1 5 0.06 15 0.8  OFFICE 114 254 1 5 0.06 20 0.8  BREAKROOM 121 276 4 5 0.12 53 0.8		46						
HVAC-1 DISPATCH 110 400 4 5 0.06 44 1.0 CORRIDOR 120 188 0 5 0.06 11 1.0 1.0 OFFICE 111 191 1 5 0.06 17 0.8 OFFICE 112 161 1 5 0.06 15 0.8 OFFICE 113 163 1 5 0.06 15 0.8 OFFICE 114 254 1 5 0.06 20 0.8 BREAKROOM 121 276 4 5 0.12 53 0.8		16						

1.) BREATHING ZONE OUTDOOR AIRFLOW - VBZ = (RP)(PZ) + (RA)(AZ)

AZ = ZONE FLOOR AREA (SF)

PZ = ZONE POPULATION. LARGEST NUMBER OF PEOPLE EXPECTED TO OCCUPY RP = PEOPLE OUTDOOR AIR RATE (OMC SECTION 403, TABLE 403.3)

RA = AREA OUTDOOR AIR RATE (OMC SECTION 403, TABLE 403.3) 2.) ZONE AIR DISTRIBUTION EFFECTIVENESS (EZ) 0.8 IS BASED ON TABLE 403.3.1.2;

CEILING SUPPLY OF WARM AIR AND CEILING RETURN. 3.) ZONE OUTDOOR AIRFLOW (VOZ): VOZ = VBZ/EZ

			EXH	HAUS	ST F	AN SCH	HEDU	JLE			
FAN NO.	LOCATION	SERVICE	CFM	S.P.	HP	VOLTAGE	RPM	SONES	TYPE	MANUF. & MODEL NO.	REMARKS
EF-1	CEILING	TOILET 131	70	0.50	7.0 WATTS	120V-1ø	1072	0.3	CEILING FAN	PANASONIC FV-05-11VK2	1,2,3,4,5,6
EF-2	CEILING	TOILET 123	70	0.50	7.0 WATTS	120V-1ø	1072	0.3	CEILING FAN	PANASONIC FV-05-11VK2	1,2,3,4,5,6
EF-3	CEILING	TOILET 122	70	0.50	7.0 WATTS	120V-1ø	1072	0.3	CEILING FAN	PANASONIC FV-05-11VK2	1,2,3,4,5,6
EF-4	CEILING	TOILET 102	70	0.50	7.0 WATTS	120V-1ø	1072	0.3	CEILING FAN	PANASONIC FV-05-11VK2	1,2,3,4,5,6
EF-5	ROOF	SERVICE 130	2,000	0.58	1/2	115V-1ø	1750	15	DIRECT DRIVE	GREENHECK AE-16-428-A	7

REMARKS:
DISCONNECT SWITCH BACKDRAFT DAMPER CONTROLLED BY LIGHT SWITCH

HANGING VIBRATION ISOLATORS

SPEED CONTROLLER 6. MOTOR OPERATED DAMPER 7. GRAVITY BACKDRAFT DAMPER

6. REFRIGERANT TYPE - R-410.

NOTE: MODEL NO. ARE BASED ON PANASONIC. GREENHECK IS EQUAL.

					Fl	JRNACES .	AND (	CONDEN	ISING U	NITS					
						INDOOR						OUTDOOR			
MARK	CFM	TOTAL COOLING	MODEL #	WEIGHT	ELECT.	AMPACITY	C.A./V.	BU INPUT	RNER OUTPUT	COIL MODEL #	MODEL #	MCA/MOCP	ELECT.	WEIGHT	REMARKS
HVAC-1 /CU-1	1200	36,000	S9X2B080U4	127 LBS	115V-1ø	11.3A./15A.	3"	80,000	77,600	4TXCC0	4TTR6036J1	18A./30A.	208V-1ø	212	A-J, I-V, 1-6
HVAC-2	1600	48,000	S9X2C100U4	144 LBS	115V-1ø	14.4A./15A.	3"	100,000	97,000	4TXCD0	4TTR6048J1	24A./40A.	208V-1ø	256	A-J, I-V, 1-6

FURNACE REMARKS:

A. ALL GAS CONNECTIONS ARE 1/2".

B. 4 SPEED TAPS ON BLOWER MOTOR C. ACCESS DOOR ON COIL HOUSING FOR CLEANING. ). MANUFACTURER'S FILTER RACK WITH SCREWS ON DOOR. . INTERNAL CONDENSATE DRAIN SYSTEM-NO TRAP REQUIRED. . SELF DIAGNOSTICS. G. THERMAL INSULATION ON CABINET.

J. MULTISPEED, PRELUBRICATED PSC BLOWER MOTORS.

H. TWO STAGE FURNACE.

COIL REMARKS:

I. CASED "A" COIL II. 5 YEAR WARRANTY III. CORROSION RESISTANT CONDENSATE DRAIN PAN. IV. REFRIGERANT CONNECTORS SHALL BE SWEAT—CONNECTION.
V. FACTORY—INSTALLED THERMOSTATIC EXPANSION VALVE. <u>CU REMARKS:</u>
1. LOW-TEMPERATURE LOCKOUT. 2. 5 YEAR COMPRESSOR AND 5 YEAR PARTS WARRANTY.
3. CYCLE PROTECTOR TO PREVENT COMPRESSOR SHORT CYCLING. 4. SUPPORT FEET TO RAISE THE UNIT OFF PAD. 5. 15 SEER.

NOTE: MODEL NO. IS BASED ON TRANE.

23085 CURRENT DATE: 07.18.23 PERMIT & CONSTRUCTION **DOCUMENTS** 

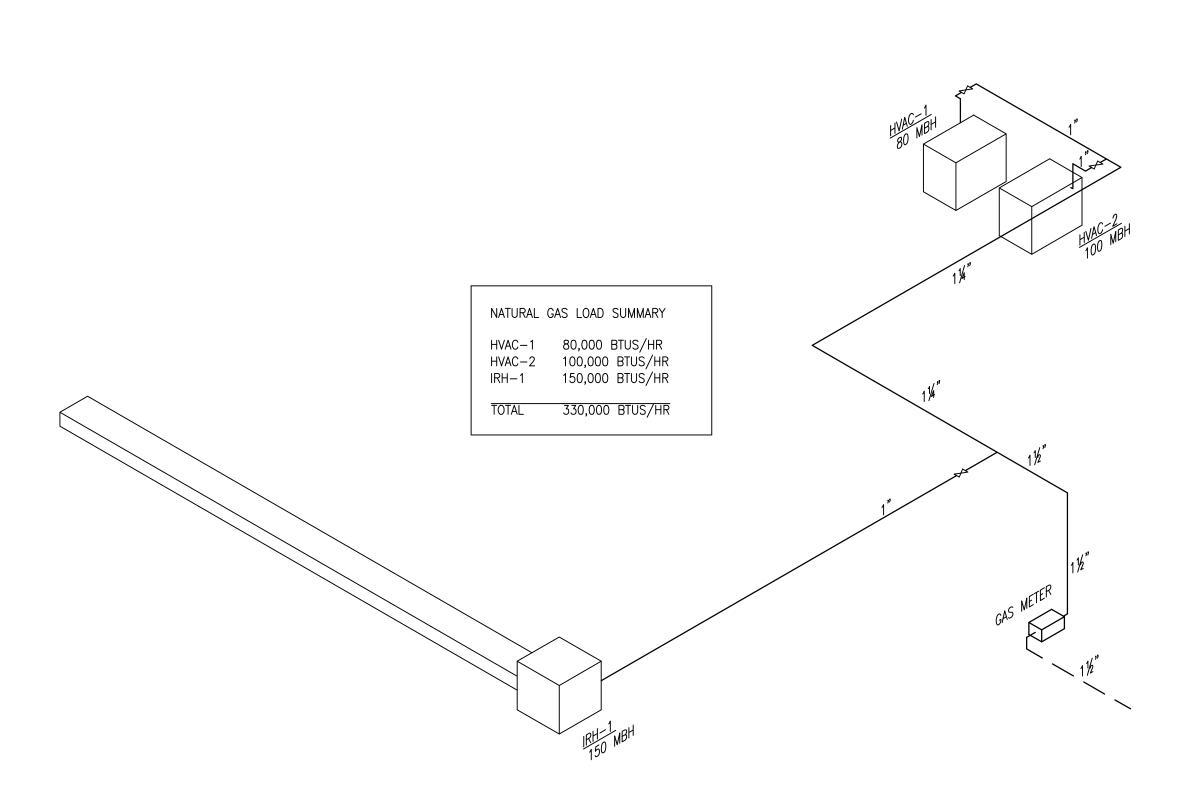
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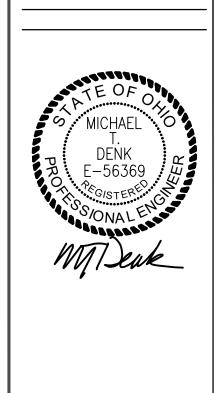
PB EX STAGING, 3800 VALI CLEVELAN

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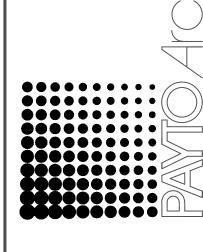
MECHANICAL SCHEDULES, LI AND DETAILS DAI PROJECT NO.



NATURAL GAS PIPING SCHEMATIC



ISSUE DATE:



PLUMBING ISOMETRICS DAI PROJECT NO.
CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION
DOCUMENTS

23085

1.01 GENERAL

- The provisions of the Instructions to Bidders, General Conditions, Supplementary Conditions, Alternates, Addenda and Division I are a part of this Specification. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. Contractors and Sub contractors shall examine same as well as other Divisions of the Specifications which affect work under this
- Mechanical, Architectural, Structural, Electrical and all other Drawings as well as the Specifications for all the Divisions are a part of the Contract Documents.
- Drawings and Specifications are to be considered as supplementing each other. Work specified but not indicated or indicated but not specified, shall be provided as though mentioned in both Specifications and Drawings.

### 1.02 WORK INCLUDES

- Mechanical General Provisions includes Plumbing, Heating, Ventilating, Air Conditioning, Fire Protection, Temperature Control, and Mechanica Systems Balancing, collectively, individually or in any combination of the several headings and the coordination and administration thereof
- B. Codes, Permits and Fees
- Comply with rules, regulations of State, County, and City Authorities having jurisdiction over the premises, including safety requirements of OSHA. Do not construe this as relieving Contractor from complying with specifications, which exceed Code requirements, and not in conflict therewith.
- Secure and pay for all permits and certificates of inspection
- Deliver official record of approval by governing agencies to architect for transmittal to Owner.
- 4. Obtain all inspections required by law, ordinances, rules, regulations of authorities having jurisdiction. Furnish certificates of such inspections. Provide all equipment, power and labor necessary for inspections and tests.

## 1.03 SCOPE OF WORK

- The Bidder is required to examine carefully the site of the proposed work, the proposal, drawings, specifications, and contract forms. He shall satisfy himself as to the character, quality, and quantities of work to be performed, materials to be provided, and as to the requirements of these specifications, special provisions and contract. The submission of a proposal shall be prima facie evidence that the Bidder has made such an examination.
- B. The Contractor shall, at his own expense, furnish all the necessary materials, labor, superintendence, tools, appliances, and equipment, and shall execute in a workmanlike manner the work of this contract within the time and in the manner specified, and in conformity with the requirements set forth in the specifications herein contained or hereto attached and in accordance with the contract drawings of said work.

## 1.04 SHOP DRAWINGS

Prepare shop drawings for mechanical equipment with adequate details and scales as necessary to clearly show construction. Clearly identify each item on the drawings as to mark location and

## 1.05 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, Contractor is liable for cost of making such changes as Architect may require.
- Provide adequate competent supervision at all times when work is being performed. Cooperate with all other trades to avoid interferences and delays.

## 1.06 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.
- B. This project involves remodeling of existing areas in an operating facility. Plan work including alterations, connections to existing facilities, to permit carrying on normal building functions. When necessary to temporarily interrupt a service, arrange with Owner in advance as to time, which will be least disruptive. Consider all work as being performed during normal working hours and in conformity with approved work progress schedule.
- Provide temporary services of any nature required to keep building functioning. Remove temporary services when permanent facilities

## 1.07 PRODUCT HANDLING

- A. Pay all costs for transportation of materials, equipment to job site.
- Provide all scaffolding, tackle, hoists, rigging necessary for placing mechanical materials and equipment in their proper place. Scaffolding, hoisting equipment: comply with applicable Federal, State, and Local regulations. Remove temporary work when no longer
- C. Arrange for packaging of equipment, which must be hoisted, so that there will be no damage or distortion caused by hoisting operation. Protect all coils, bearings, fan shafts and housing from any damage during hoisting operation.
- Store all heating, ventilating, air conditioning equipment, plumbing fixtures, etc., in dry location until building is ready to receive them. Protect all openings, bearings, motor controls, etc., from dirt and moisture.

## PART 2 PRODUCTS

## 2.01 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.
- B. Guarantee against defects in workmanship and materials; make good, repair or replace any defective work, material or equipment within one year from date of acceptance.

## 2.02 EQUIPMENT

Bids shall be based upon the specified product or listed alternative. Bidders may quote on substitute products by listing them on the substitution page of the bid form and by indicating the additional cost or credit. No later substitutions will be permitted. Refer to Instructions to Bidders.

Design drawings are based on the products specified by type model and size and thus establish minimum qualities, which substitutes SECTION 15050 BASIC MATERIALS AND METHODS must meet to qualify as acceptable. Proof of equality rests with the Bidder; provide all data necessary to demonstrate acceptability. PART 1

MATERIAL S

A. Pipe and Fittings

Refrigerant - Type "L" hard copper.

with solvent weld joints.

be Class 250 cast iron.

strain on valves or equipment.

from the building structure.

to sectionalize the systems.

pulling, periodic servicing.

alloy is specified.

Excavation and Backfill

D. Hangers and Supports

E. Vibration Control

F. General Piping

A/C Condensate Drain - Type "L" hard copper.

Domestic Water (3" and Smaller) — Type "L" hard copper.

Domestic Water (Underground Service) - Type "K" hard copper.

Gas (Inside Building) - Schedule 40 black steel, 150 lb. malleable

Gas (Underground Service) - Schedule 40 black steel coated pipe

Valves shall be of the same manufacture where possible and

equivalent to those manufactured by Nibco, Jenkins,

Fairbanks, Powell, Milwaukee, Keystone or Hammond and

withstand minimum 125 lbs. steam working pressure.

Building Sewers and Drains (Underground) — Storm and

sanitary sewers to 5'0" outside building walls shall be

Soil, Waste, Vent and Drain Piping (Above Ground Interior) -

Water Service and Fireline (Underground Exterior) — As

Schedule 40 PVC drain waste and vent pipe and fittings with

solvent weld joints per ASTM D2665 78 except in return air

required by the serving utility but not less than AWWA Class

150, thickness Class 56, cement lined ductile iron pipe with

slip on joints equal to Clow Bell Tile joint. All fittings shall

Provide all hangers, anchors, guides and supports to properly

support and retain piping and ductwork; to control expansion

contraction, anchorage, drainage and prevent sway and

vibration. Piping shall be so supported as not to place a

Vibration or noise created in any part of the building by the

all precautions by isolating the various items of equipment

operation of any equipment furnished and/or installed under

this contract will be prohibited and this Contractor shall take

hangers precompressed molded fiberglass inserts.

Provide shutoff valves at all branch connections to main, at

Install valves with stems at or above horizontal position.

Plug open ends of pipe or equipment at all times during

Arrange and install all pipes, valves, cleanouts, access

All pipe must be reamed and cleaned before assembly.

Apply pipe compound to male end of threaded joints. All

connections on copper lines shall be cleaned, fluxed and soldered with 95 5 solder, except where a silver-brazing

Construct, install and inspect all pressure piping systems in

accordance with authorities having jurisdiction.

Install all piping throughout the project with adequate

movement. Make changes in directions with fittings.

allowance for expansion to prevent damage to building,

equipment and piping. Provide anchors, loops or approved

type expansion joints as required for complete control of

Do all excavation and backfilling necessary for installation of

After installation and testing of piping has been completed

excavated material is determined by the Architect to be

"Site Work" to 6;" above finished grade to provide for

Where building service lines enter or leave building such as

water, sewer, gas, etc., and are installed on filled earth.

provide continuous support on a reinforced concrete beam

furnished and installed under this Division. Support beam on

building end with vertical support down to foundation footing

Remove, dispose of any material not used for backfill.

building and under paved areas outside of building with grits

or bank run sand or the previously excavated material if this

suitable for reuse. Backfill shall be made and tamped in six

inch lavers. Refill trenches outside of building and not under

payed areas with selected dirt as specified under Division 2

and approved for backfill, refill all excavation inside of

welded joints shall be as hereinbefore specified. All soldered

Locate equipment to maintain clearances for tube, coil

installation to keep dirt and foreign material out of system.

openings and equipment so as to be accessible for service.

all fixture groupings, each piece of apparatus and in mains

Schedule 40 PVC sewer pipe and fittings per ASTM D2665 78

B36.10 or PVC as approved by Gas Company

The bid price for each listed alternative or substitute shall include all costs required to incorporate the item into the project.

The Architect reserves the right to reject proposed substitutes.

Where only one make is named, it shall be provided.

## 2.03 MATERIALS

All materials shall be new, full weight, of the best quality with the same brand or manufacturer used for each class of material or equipment.

## DAMAGE AND EMERGENCY REPAIRS

Assume responsibility for any damage caused by leaks in the piping systems being installed under this Contract. Repair all damage without extra cost to Owner.

## PART 3 EXECUTION

## 3.01 INSTALLATION REQUIREMENTS

- Locations of piping, equipment, ducts, etc., on the drawinas are diagrammatic: indicated positions shall be followed as closely as possible, exact locations shall be subject to building construction and interferences with other work. Difficulties preventing the installation of any part of work as indicated shall be called to the attention of the Architect. Architect will determine locations and changes. Contractor shall install the work accordingly. Architect reserves right to make minor changes in location of any part of the work up to the time of roughing in without additional cost.
- Do all cutting and patching in construction as necessary for installation of this work. Do not cut any structural member without specific permission from 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 several trades.
- C. Take all measurements and determine all elevations at the building. 3.02 RECORD DRAWINGS (ALSO SEE DIVISION I GENERAL REQUIREMENTS)
- A. Fach Contractor or Sub-contractor for mechanical work shall keep one complete set of the contract working drawings on the job site on which he shall record any deviations or changes from such contract drawings made during construction.

## 3.04 EQUIPMENT IDENTIFICATION

Identify each piece of equipment and ducts as to nature of service and system number corresponding to designation on the drawings, by stenciling with 1" high letters or attaching two-color engraved plastic nameplates. Apply one coat lacquer or varnish over the stencils.

## 3.05 PIPE IDENTIFICATION

Identify each pipe in Equipment Rooms and above accessible ceilings with contents of pipe in conformance with Scheme for Identification of Piping Systems, ANSI A13.1-2002.

## 3.06 LUBRICATION, PACKING AND SUPPLIES

- Properly lubricate all equipment before it is started.
- Install initial charge of refrigerant and any other supplies required to place equipment in operation.

## 3.07 TESTS AND ADJUSTMENTS

A. 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

SERVICE	MEDIUM (PS	I) HRS.
Underground water Domestic water Gas 24	Water Water Air	125 125 50

- \* AWWA Procedures
- B. Sanitary sewers per State Plumbing Code or Local Authority. Test medium for refrigerant piping shall be oil pumped dry nitrogen.
- Twenty—four hour standing time minimum. Test the low side of the system to 150 psi and the high side to 300 psi. Tests shall conform to ANSI Standard B31.5 "Refrigeration Piping."

## 3.08 CLEANING UP

END OF SECTION

- At all times, keep premises and building in neat and orderly condition. Follow explicitly any instructions of Architect in regard to storing of materials, protective measures and disposing of debris.
- Domestic water systems: Flush out system first, then hold a solution mixture of 500 ppm of chlorine in the water in system for a 24-hour period. Drain systems and flush. After flushing, chlorine residual shall not be in excess of 0.5 ppm at 4 widely spaced checkpoints. Chlorination procedures shall conform to AWWA Specification C601—54 and be accepted by local health department. Repeat chlorination if necessary until accepted.
- Replace all throw away filters used during construction with proper system filters at completion of work.
- Provide chemical cleaning for piping systems with an approved detergent to remove pipe dope, slushing compounds, oil, welding
- slag, loose mill scale and other extraneous materials. Fill hot water radiation, reheat, chilled water and condenser water systems with clean water and flush; refill with clean

water to which proper amount of detergent has been added:

circulate for at least 8 hours; drain system and flush with

clean cold water. Add water treatment at this time.

- After initial period of operation, clean all strainers, traps, and dirt
- Upon completion of work, remove all tools, equipment, surplus materials, thoroughly clean all piping, fixtures and equipment removing all dirt, grease and oil.

## 3.09 HVAC SYSTEMS ADJUSTMENTS AND BALANCE

A. Put all heating, ventilating, exhaust and air conditioning systems and equipment into full operation and continue operation of same during PART 1 GENERAL each working day of testing and balancing. All testing and balancing shall be done under both cooling and heating modes of operation.

- Balance and adjust air-handling system for design flow of supply, return and outdoor air to within 10% of design Balance all diffusers, grilles, registers and VAV terminals to
- Submit tabulated results in triplicate including motor amperage, cfm, and location.

### END OF SECTION SECTION 15250 INSULATION

A. All insulation shall be installed over clean dry surfaces. Insulation must be dry and in good condition. Wet or damaged insulation will

and on undisturbed earth at other end.

- not be acceptable. No insulation shall be applied prior to pressure test completion of the respective piping systems within 10% of design requirements. Submit recorded results B. All insulation shall be continuous through wall and ceiling openings
- sleeves and pipe hanger locations. of all testing to Architect in triplicate with room numbers. design air quantities and actual air quantities. C. Ductwork where indicated on plans to be lined shall not require exterior insulation.
  - AP Armaflex pipe insulation shall be applied with proper adhesive for working temperature of service, insulate all valves and fittings to

## 1.04 REFRIGERANT PIPING SYSTEMS

- Refrigerant piping and equipment installation shall conform to the applicable requirements of the Safety Code for Mechanical
- Pitch horizontal refrigerant piping 1/2" per 10 feet in direction of

## OWENS CORNING FIBERGLAS 25: ASJ/SSL HEAVY DENSITY

PIPE INSULATION (see insulation thickness schedule)

Insulation products as manufactured by Armstrong, CertainTeed or

A. All insulation material (insulation, jackets, adhesives, cements,

255 and UL 723, not exceeding, as follows:

mastics, sealers, coating and finishes) shall have composite fire and

smoke hazard ratings as tested under procedure ASTM E 84. NFPA

Domestic Cold Water Domestic Hot Water

Schedule of "Fiberglas 25" Pipe Insulation Thickness MINIMUM PIPE INSULATION THICKNESS

match adjacent piping.

Flame Spread 25

Smoke Developed 50

Knauf are acceptable.

PART 2 - PRODUCTS

2.01 MATERIAL

TO 1" 1¼-2**"** 

3. AP ARMAFLEX II FR: 1/2" THICK PIPE INSULATION

Air Conditioning Condensate Drain Refrigerant Suction

4. OWENS CORNING ED150 FRK 25: 2" THICK FACED DUCTWRAP

Supply Air Ductwork

Outside Air Intake Ductwork OWENS CORNING FIBERGLAS 705: 1" THICK ASJ EQUIPMENT INSULATION (DENSITY 6 PCF)

## Exposed Supply Ductwork

### Piping and ductwork shall be supported independently of the PART 1 GENERAL mechanical equipment and shall be isolated as follows:

- Suspend piping by threaded rods incorporating resilient A. Sanitary Drainage Systems
- Flexible connections shall be used between ductwork Location of soil, waste and vent piping shall be as indicated and air handling equipment, and the ductwork on the drawings and meet the various building conditions. attached rigidly to the structure. Do any work necessary to conceal piping or clear piping and

END OF SECTION

SECTION 15400 PLUMBING

At least one soil or waste stack shall extend full size through the roof and shall be as direct as possible and free from sharp angles and turns.

ductwork of other trades.

- B. Piping Systems
- Provide water, gas, sanitary and storm systems as indicated on drawings with same being supplied and connected to all fixtures and equipment.
- C. Underground Water Piping System
- Underground water piping shall be installed with a minimum depth of bury of 5 feet.
- Floor cleanouts: Zurn Series No. Z 1400. Ancon, Smith, Wade and Josam acceptable.
- - Floor Drains (equipment room): Zurn 520.
- Floor Drains (safe wastes): Zurn Z 415 with type "I" strainer, Type 9E1 cast. 5. All other floor drains: Zurn Z 415, 6" type "H" strainer.
- Exterior Hose Bibbs: Zurn 3/4" Z 1310 1 6, frostproof
- hydrant with integral vandalproof vacuum breaker. Smith, Wade or Josam acceptable.
- H. General Requirements for Plumbing Fixtures and Trim The Plumbing Contractor shall provide all plumbing fixtures indicated complete and ready for use.
- All fixture supports to be of type permitting adjustment to fitSECTION 15900 CONTROLS AND INSTRUMENTATION variation in construction. The Plumbing Contractor shall provide all stops, traps,

rust stains and any other matter or discoloration leaving

every part in good condition. Adjust all flush valves and

Assemble lavatory and sink wastes and traps with slip joints

and compression fittings on fixture side of trap. Sewer side

- escutcheons connections as necessary to complete installation of each fixture, whether such items are listed or not. After all fixtures have been set and are ready for use, thoroughly clean all fixtures furnished, removing all stickers,
- other fixture water supplies to give proper water flow. All finished exposed faucets, traps, connecting piping, stops, flush valves and other fixture trim shall be chromium-plated brass unless otherwise specified and shall be supported rigidly to fixtures and to walls with matching brackets. All fastenings shall be chromium-plated brass.
- connections shall be made with screwed joints. Slip joints on sewer side of traps are not acceptable. Vacuum breakers shall be provided as part of the fixture trim wherever there is a possibility of back siphoning.

## Fixture Schedule — See plans. END OF SECTION

1.01 WORK INCLUDES

SECTION 15700 HEAT TRANSFER

A. Refrigerant piping and related equipment.

- Refrigeration (ANSI B9.1).
- B. Piping and specialties shall be sized to prevent excessive pressure drop, and allow compressors and evaporators to operate together
- with balance points at or above the specified capacities. C. Piping and specialties shall be arranged to return oil at all loads, and prevent liquid from "slugging" the compressor or siphoning to the evaporator. Provide double suction risers and traps as required.

## END OF SECTION SECTION 15800 AIR DISTRIBUTION

## PART 1 GENERAL

- 1.01 WORK INCLUDES
- All HVAC materials, equipment and controls.
- Provide all sheet metal work as indicated on the drawings in accordance with the latest edition of the ASHRAE guide and data book, SMACNA standards, 1995 Second Edition, and this specification,

joints to be Seal Class "A".

## PART 2 PRODUCTS

- 2.01 MATERIALS A. Low Pressure Ductwork
  - All ductwork shall be constructed of galvanized steel except where noted on plans to be aluminum. Exposed ductwork in architecturally finished spaces shall be fabricated from "Paint Grip" galvanized steel or similar mill surface etch treatment.

the most demanding of which shall be the minimum standard. All

- Construct all ductwork following SMACNA "HVAC Duct Construction Standards," 1995 edition.
- All ducts, except kitchen exhaust, shall be constructed to 1"
- 4. Seal all ducts to seal Class "A."
- B. All ductwork shall be constructed of galvanized steel except where noted on drawings to be aluminum. Exposed ductwork in architecturally finished spaces shall be fabricated from "Paint Grip" aglyanized steel or similar mill surface each treatment.
- C. Dampers and Deflectors Provide and install all manual dampers and deflectors
  - indicated on drawings or where necessary to properly distribute and balance air. Provide damper in each supply duct leaving duct main and in each branch serving individual supply, return and exhaust outlets and where otherwise
- In general, Titus is specified. Equals by Krueger, Carnes or
- Nailor Hart are acceptable. 2. All registers, diffusers to have a factory applied off white
- finish unless otherwise noted. See drawings for schedule.
- F. Exterior Louvers

Registers, Diffusers

- Provide weather resistant exterior wall louvers, size as indicated on drawinas.
- 2. Louvers shall be Ruskin ELF6375DX, 6" deep, weather resistant, extruded aluminum, 1/2" square mesh aluminum screen on interior face, blades at 6" centers, drain gutters and downspouts, AMCA certified, welded construction.
- H. Equipment Supports
- Where supports are not specified with HVAC equipment provide prefabricated equipment supports.
- Provide two (2) complete sets of filters for each filter bank. Install one set of filters in units when construction is complete. Furnish the other set as a spare to the Owner when the project is complete. Filters shall not be shipped to the jobsite until construction is complete and the units

are ready to have the first set of clean filters installed.

- N. Equipment
- See drawings for schedule of HVAC equipment, fans, and

- 1.01 WORK INCLUDES Complete temperature control system having all necessary component parts, such as transformers, relays, thermostats, damper motors, etc. System shall be installed by competent technician familiar with

## the control system. PART 2 AND 3 - PRODUCTS AND EXECUTION

- 2.01 SERVICE AND GUARANTEE After completion HVAC Contractor shall adjust all thermostats, control valves, motors, sensors, dampers and other equipment provided under his contract with trained personnel in his employ. Place controls in operating condition subject to the approval of the Engineer. Instruct operating personnel in the operation and
- maintenance of the control system. B. The control system specified herein shall be guaranteed free from defects in workmanship and material under normal use and service for a period of one year after acceptance.
- Any equipment herein described proven to be defective in workmanship or material during the guarantee period shall be adjusted, repaired or replaced at no charge to the Owner.

## 2.02 WIRING

- A. All wiring incidental to this temperature control system shall be
- The term "wiring" shall be construed to include furnishing of wire, conduit, miscellaneous materials and labor as required for mounting and connecting electrical control devices and providing electrical interlocks between equipment. All wiring not indicated on electrical drawings is the responsibility of this Contractor.

2.03 SEQUENCE OF OPERATION — see plans

END OF SECTION

DENK E-56369

MICHAEL

ISSUE DATE:

07.18.23

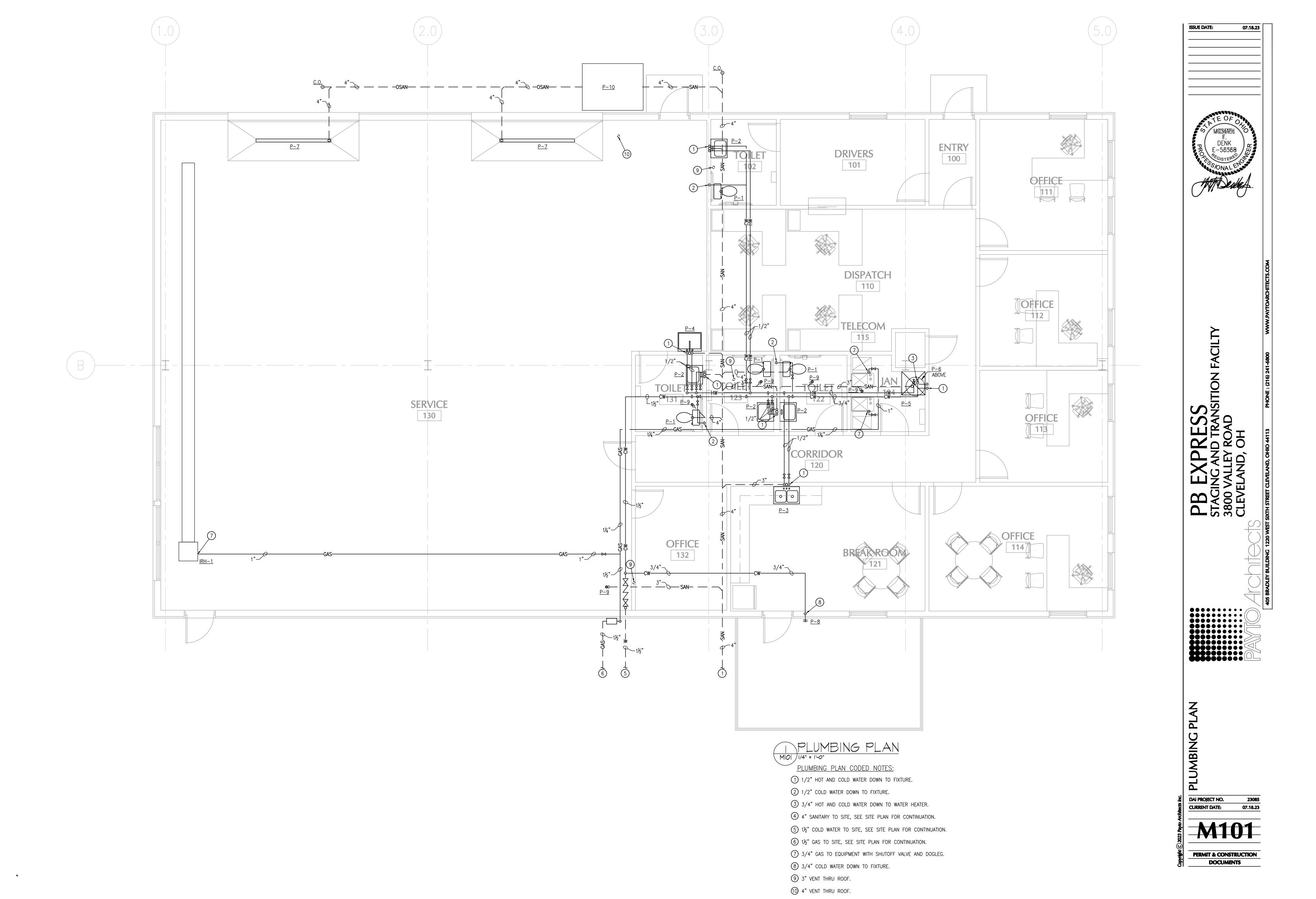
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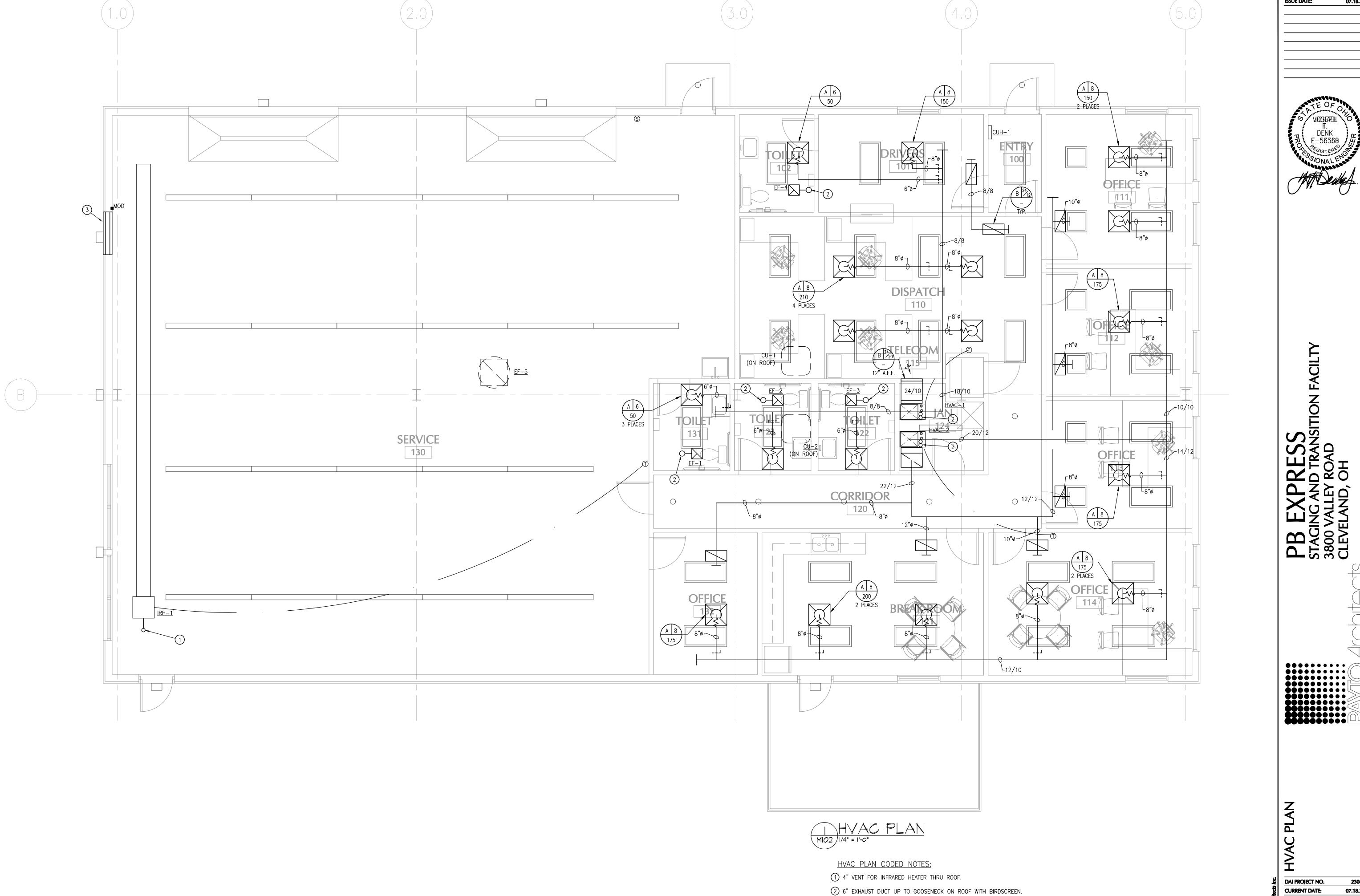
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DAI PROJECT NO. 23085 CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION **DOCUMENTS** 

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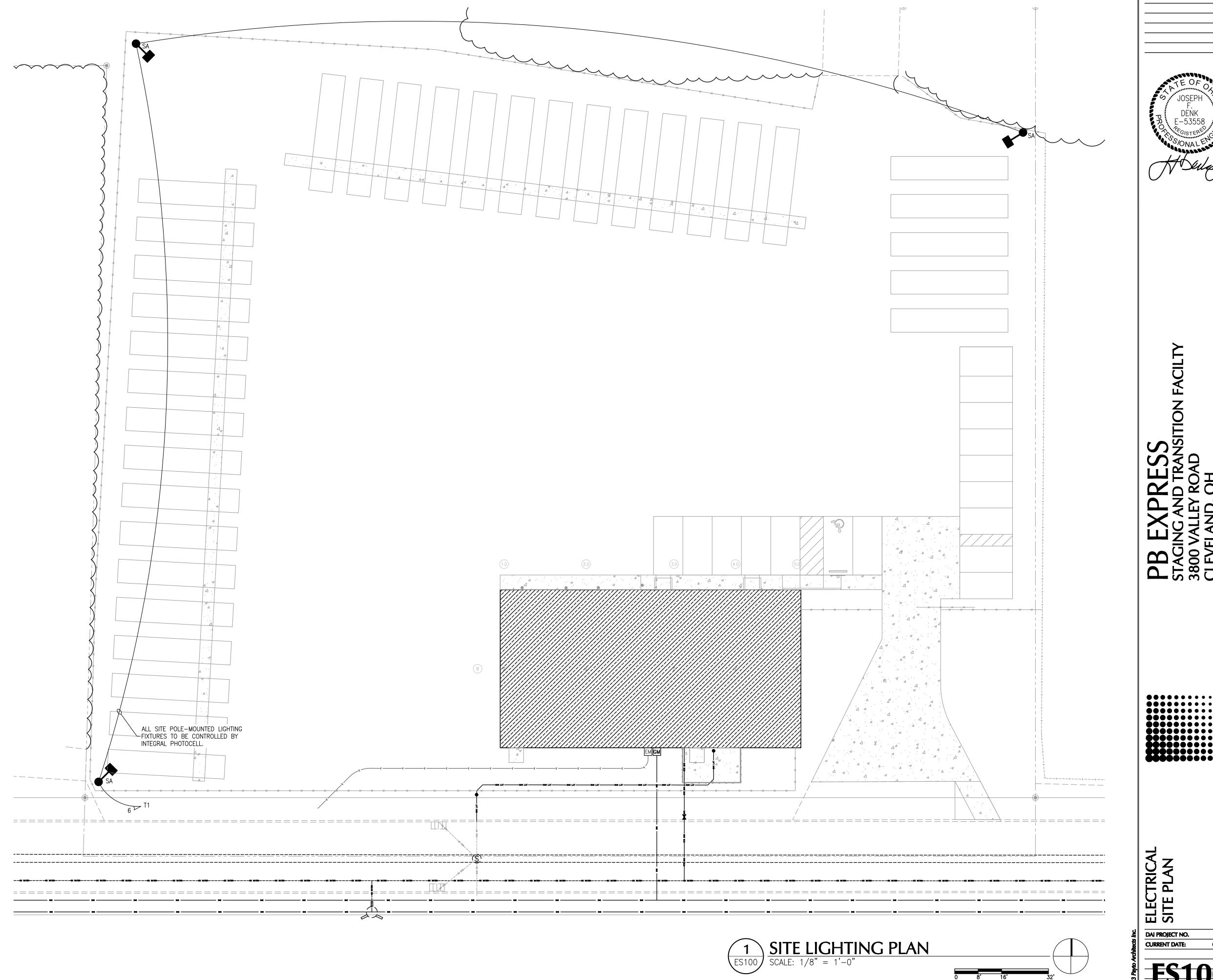
3 4' x 2' INTAKE AIR LOUVER WITH MOTOR OPERATED DAMPER TO BE INTERLOCKED WITH  $\underline{\text{EF}-5.}$ 



ISSUE DATE:

07.18.23

DAI PROJECT NO. 23085 CURRENT DATE: 07.18.23 PERMIT & CONSTRUCTION



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23085 07.18.23 **PERMIT & CONSTRUCTION** 

- A. The provisions of the Instructions to Bidders, General Conditions, upplementary Conditions, Alternates, Addenda, and Division 1 are a par of this Specification. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete work. Contractors and Sub-contractors shall examine same as well as other Divisions of the Specifications which affect work under this Division.
- B. Material or labor which is not indicated on the Drawings or Specifications, but which is obviously necessary to complete the work (and is usually included in similar work), shall be provided. Drawings and Specification are to be considered as supplementing each other. Work specified but not indicated, or indicated but not specified, shall be provided as though mentioned in both Specifications and Drawings.
- C. These Specifications establish quality standards of materials and equipment to be provided. Specific items are identified by Manufacturer, Trade Name or Catalog Designation. The Contractor shall submit his base bid price based upon specified equipment described herein and as detailed on drawings and associated contract documents
- D. Definitions
  - "Contractor" as used within the Electrical Specifications shall refer to the Electrical Contractor.
  - "Equal" or "Equivalent" shall be understood to mean of the same quantity, size, number, value, degree, intensity and the items are similar in all respects. The Engineer will make the final decision of acceptance of these items.
  - 3. "Contract Documents" shall be understood to encompass drawings and specifications for architectural, structural, civil, mechanical, electrical and all other pertinent disciplines.
  - 4. "Provide" shall be interpreted to mean the Contractor shall furnish all labor, materials, equipment and supplies including tests and inspections necessary to install, connect, apply, erect, construct, and place in operating condition.
- 5. "Furnish" shall be interpreted to mean the Contractor shall supply and deliver to the job site specified material, equipment, and
- 6. "Install" shall be interpreted to mean assembling, placing, erecting, wiring and to make fully operational.
- F The Contractor shall furnish all materials and do all work in accordance with these specifications, and any supplementary documents provided by the Architect. The work shall include everything shown on the drawings and/or required by the specifications as interpreted by the Architect regardless of where such information is indicated (Architectural, HVAC Plumbing, Fire Protection, etc.). All work and materials furnished and installed shall be new and of the best quality and workmanship. The Contractor shall cooperate with the Architect so that no error or discrepancy in the Contract Documents shall cause defective materials to be used or poor workmanship to be performed.
- F. Visit the site of the work and become familiar with conditions affecting the installation. The contractor shall ascertain the location of existing structures, utilities, equipment, etc. that may affect contract work and advise the engineer no later than five (5) working days prior to bid due date. Submission of a proposal shall presuppose knowledge of such conditions and no additional compensation shall be allowed where extra labor or materials are required because of ignorance of these
- G. The contractor shall advise the architect and/or engineer of any code violations occurring in the Contract Documents prior to award of contract. In case of conflict between the Contract Documents and the requirements of any Code or Authorities having jurisdiction, the most stringent requirements of the aforementioned shall govern.

## 1.02 WORK INCLUDES

- A. Include all labor, material, equipment, services, permits and certificates of inspection necessary for the proper completion of all electrical work. Items omitted, but necessary to make the electrical system complete and workable, shall be understood to form part of the work.
- B. It is the purpose of the Electrical Drawings to indicate the approximate location of all equipment, outlets, etc. Ascertain exact locations and arrange work accordingly. The right is reserved to effect reasonable out additional cost to the Owner. Changes in location of outlets or equipment necessitated by interference with the work of other trades shall be made only with the consent of the Architect's or Owner's representative and at no additional cost.
- C. Work shall include, but not be limited to, the following general systems and

Feeders and panel boards Disconnect switches

Lighting and controls Receptacles

Fire alarm Power wiring/powered furniture connections Any items normally associated with equipment supplied by others, such as limit switches for door operator motors and motor operated

- D. All materials and workmanship shall comply with all applicable Codes, Specifications, Local and State Ordinances, Industry Standards, and Utility Company regulations and latest editions. In case of difference between Building Codes, State Laws, Local Ordinances, and the Contract Documents, the Contractor shall promptly notify the Architect in writing of any such difference.
- E. The Electrical Design is based on the National Electrical Code. Work shall be installed in accordance with the provisions of the code as interpreted by the local board having jurisdiction, as well as any further modifications or regulations of local or state authorities. The Contractor shall include in his bid the cost of providing materials and equipment necessary to satisfy local or regional codes.
- F. Provisions of the latest revisions to the Federal Occupational Safety and Health Act (OSHA) shall be satisfied.
- G. Secure and pay for all permits and inspections required electrical work Turn over all certificates of approval, by governing agencies, to the Architect for transmittal to Owner before payment is made for the work.
- H. Give the proper authorities notices as required by law relative to the work in his charge. Comply with the regulations regarding temporary enclosures, obstructions or excavations and pay all legal fees involved. I. The Electrical Contractor shall provide temporary electrical services adequate
- in size and characteristics, for use by all trades on site during project construction.

## 1.03 TESTS & DEMONSTRATION OF SYSTEMS

- A. After installation but prior to energization, perform tests for grounds, short circuits and proper function. Faults in the installation shall be corrected.
- B. Insulation resistance tests shall be made on the electrical system with not less than 1000V D.C. for 30 seconds using an approved megohieter (Biddle Megger or equal). Also, complete resistance/continuity tests on the grounding system.
- C. The Contractor shall torque down all accessible bolts and perform rotation tests for all distribution and utilization equipment

D. At each test site, the Contractor shall provide any test control power

- necessary to perform these tests. E. Conduct such tests and adjustments of the equipment as required by the
- Architect as necessary to verify performance requirements. Submit data
- F. Before final payment, demonstrate to the Owner's satisfaction the proper operation of each of the systems comprising this Contract.
- G. Instruct the Owner's maintenance personnel in the operation and maintenance of all electrical equipment and controls. 1.04 CLEANING AND FINISHING
- A. After all tests have been completed, clean all equipment leaving everything in working order at the completion of this work.
- B. All debris created by the execution of this work shall be removed
- 1.05 CUTTING, PATCHING AND PAINTING
- A. Avoid cutting into the work of others by using sleeves, inserts, chases and similar items necessary for the installation

- B. Except where otherwise specified or noted on drawings, do all cutting and patching of the building as required to install sleeves, inserts, conduit and electrical equipment. Patching shall be done by mechanics skilled in the various trades. Work shall match the general construction work All cutting shall be done in a manner to retain the structural integrity of the unit being cut. Where existing equipment is removed or relocated, patch to match the existing building finishes (walls, ceilings,
- Painting shall be provided under other Divisions of this Specification unless otherwise specified.

## 1.06 COORDINATION WITH OTHER TRADES

- A. The Contract Drawings are diagrammatic only intending to show general runs and locations of conduit, equipment, terminals and specialties and not necessarily showing all required offsets, details and accessories and equipment to be connected. Take all field measurements necessary and assume responsibility for their accuracy. All work shall be accurately laid out with other Trades to avoid conflicts and to obtain a neat and workmanlike installation that will afford maximum accessibility for operation, maintenance and headroom.
- Keep fully informed of the progress of the general construction. Install work that is to be concealed within the building construction in sufficient time to secure proper location without delay to the work of other trades. All conduit and outlet boxes concealed in masonry construction shall be installed during wall construction. Attend electrical work during the progress of building—in to prevent misalignments and damages to the electrical work.
- C. The Contractor shall be responsible for coordinating with other trades (mechanical, plumbing, etc.), and shall verify any equipment and device voltage, phase and ampacity specifications. They shall furnish and instal all necessary wiring, protective devices, etc., as recommended by the manufacturer and as required for the correct and proper operation of the installed equipment.
- Examine the work of other trades when their work comes in contact with or is covered by this work. Do not attach to, cover up, or finish against any defective work, or install work in a manner which will prevent proper installation of the work of other trades
- All outlets, switches and receptacles shall be centered with regard to paneling, trim equipment, etc., and shall line up with either bottom or top of masonry courses.
- Locate all electrical equipment, devices, equipment, etc. in the field in conjunction with drawings and building engineer. Coordinate routing of all feeders, conduit runs, pullboxes, etc. to avoid conflicts with existing ductwork, plumbing, and structural components.

## 1.07 GUARANTEE AND WORKMANSHIP

- All materials and workmanship provided under the contract shall carry the standard warranty against all defects in material and workmanship. Any fault due to defective or improper material, equipment, workmanship or design which may develop shall be made good, forthwith, by and at the expense of the Contractor for the work under his Contract, including all other damage done to areas, materials and other systems resulting
- Manufacturers shall provide their standard guarantees for work under the Electrical Trades. However, such guarantees shall be in addition to and not in lieu of all other liabilities that the manufacturer and the Contractor may have by law or by other provisions of the Contract
- Workmanship shall be in accordance with the best practices of the trade Journeymen electricians under the supervision of a competent foreman shall install electrical work

## A. Submit drawings and wiring diagrams in accordance with Division I on all items of equipment provided for review by the Engineer. These shall

include, but not be limited to, the following:

### Lighting fixtures Lighting control Disconnect switches

Fire alarm devices

Panelboards and transformer

- 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.
- stamp and indicate all options. If the submittal shows variations from the requirements of the contract documents, for any reason, the Contractor shall make specific mention of such variation in his letter of transmittal. The Contractor shall note in red on the submittal any change in design or dimension on the item submitted including changes made by the manufacturer that may differ from catalog information.
- D. Acceptance or rejection of the proposed substitutions shall be subject to approval by the Architect and Engineer. If requested, the Contractor shall submit (at their cost) inspection samples of both the specified and the proposed substitute items for review by the Engineer.
- Contractor further agrees that if deviations, discrepancies, or conflicts between shop drawing submittals and the contract documents in the form of design drawings and specifications are discovered either prior to or after shop drawing submittals are processed by the Engineer, the design drawings and specifications shall control and shall be followed.

## 1.09 RECORD DRAWINGS

- A Fach Contractor or Sub-contractor for Flectrical work shall keep one complete set of the contract working drawings on the job site on which he shall record any deviations or changes from such contract drawings made during construction.
- These Drawings shall be kept clean and undamaged, and shall not be used for any purpose other than recording deviations from working drawings

## and exact locations of concealed work. 1.10 OPERATING, MAINTENANCE AND SERVICE MANUALS

- A. The Contractor shall thoroughly instruct the representative of the Owner. to the complete satisfaction of the Architect, in the proper operation of all systems and equipment provided by him. The Contractor shall make arrangements, via the Architect, as to whom the instructions are to be given in the operation of the basic and auxiliary systems and the period of time in which they are to be given. The Architect shall be completely satisfied that the representative of the Owner has been thoroughly and completely instructed in the proper operation of all systems and equipment before final payment is made. If the Architect determines that complete and thorough instructions have not been given by the Contractor to the Owner's representative, then the Contractor shall be directed by the Architect to provide whatever instructions are necessary until the intent of this paragraph of the specification has
- B. Deliver to the Owner all keys, special tools and appurtenances for proper operation and maintenance of the equipment. Provide three (3) complete bound sets of operating and maintenance instructions for all electrical equipment and controls.

## PART 2 - PRODUCTS

## 2.01 EQUIPMENT AND MATERIALS

- A. Equipment and materials used on this job shall be new, U.L. labeled, and O.S.H.A. approved.
- B. Equipment and materials shall be protected and be the responsibility of this Contractor until formally accepted by the Owner.
- C. Material and equipment built into the work for which examination service is provided shall bear the Underwriter's Label.
- Materials and equipment provided under this Contract shall be new and of the quality herein specified. Each class of materials shall be of the same type and make throughout the building.
- All manufacturers of electrical equipment shall demonstrate to the satisfaction of the Contractor and Engineer that their equipment will function properly under the conditions of use as indicated on the drawings and as specified herein. Dimensions, weights, operating characteristics and all other related appurtenances should be verified before submittal of shop drawings.

## Fire Stopping

- 1. In addition to the requirements specified herein, refer to Division 1 Specifications for fire stopping guidelines.
- 2. All openings in fire rated floors, shafts, and walls accommodating penetrating items such as cables, conduits, raceways, cable trays, or busways shall be fire stopped.

- a. Provide fire stopping for steel electrical outlet boxes that exceed 16 square inches in area and/or when the aggregate surface of the boxes exceeds 100 square inches in any 100 square foot of wall area. In addition, provide fire stopping fo steel electrical outlet boxes on opposite sides of the wall that are not separated by a horizontal distance of 24 inches.
- b. Provide fire stopping where a penetration occurs through a structural floor or roof and a space would otherwise remain open between the surface of the penetration and the edge of
- the adjoining structural floor or roof. c. Provide fire stopping to completely fill spaces around penetrations where penetrations occur at fire rated shafts and
- walls of hollow-type construction. 3. The installation of fire stopping materials shall conform to the latest
- Fire Resistance Directory as published by U.L. 4. Fire stopping shall be performed by a contractor trained or approved by the fire stopping manufacturer. Equipment used shall be in accordance with the fire stopping manufacturer's written installation
- 5. Acceptable Manufacturers include: Specified Technologies, Inc.; Tremco, PART 3 - EXECUTION

## 3.01 EQUIPMENT CONNECTIONS

A. Serve and connect equipment being installed during the construction period, but provide facilities only for serving equipment that will be moved in, set and connected later by the Owner. Provide cords and caps where required and fusetron fuses in switches left for future equipment

## 3.02 SERVICE SHUTDOWNS

- Prior to any isolation of systems, shutdowns or demolition the Contractor shall provide necessary investigation and notify the Facilities Engineering/Maintenance personnel of work to be performed so as to avoid any detrimental shutdown of systems to adjacent spaces.
- B. Maintain existing electrical systems in service until the new systems are complete and ready for service. Disable the systems only to make switchovers and connections. Any service shutdowns that may be required shall be scheduled with and approved by the Owner. All shutdowns shall be scheduled with and approved by the Owner. A minimum of a one-week notice shall be given prior to any service shutdown. No additional compensation shall be allowed for these shutdown periods even though overtime work may be required.

## END OF SECTION

SECTION 16050 - BASIC MATERIALS AND METHODS

PART 1 - GENERAL 1.01 GENERAL

A. Work Includes

### Wire and Cable Wiring Devices Supporting Devices

B. Related Work Specified Elsewhere Section 16010 — General Electrical Provisions

2. Material and equipment built into the work for which examination service is provided shall bear the Underwriter's Label.

Section 16060 - Grounding and Bonding

3. Materials and equipment provided under this Contract shall be new and of the quality herein specified. Each class of materials shall be of the same type and make throughout the building.

## PART 2 - PRODUCTS AND EXECUTION

## 2.01 CONDUITS

- Conduit shall be rigid galvanized or intermediate grade in exterior masonry walls; masonry walls below grade; concrete floors, walls o slabs; damp or wet locations; or exposed below 8 feet above finished floor. Use P.V.C. in ground applications. All other interior conduits may be EMT or MC as approved by the National Electrical
- 2. Rigid conduit fittings shall be threaded fittings. Rigid conduit couplings and hubs to have no less than five (5) threads of conduit engaged and screwed up tight.
- 3. All conduits that pass through the roof shall be in pipe portals.
- 4. All conduits that cross expansion joints shall have expansion seismic 5. All conduits that are indicated on the drawings to be run exposed on
- 6. Exterior underground conduit shall be P.V.C. schedule 40, and must be encased in 6" of concrete under drives or roadways. The transition to rigid conduit must be made before the conduit enters

the building roof shall be supplied with pipe roller supports.

- Conduits shall be continuous and be secured to all boxes in a manner that each system shall be electrically continuous from point of service to all outlets. Terminals of all conduits shall be provided with locknuts and bushings. Plug ends of each conduit with an approved cap or disc to prevent the entrance of foreign materials during construction.
- 2. Conduits run in floor slab or concrete work shall have a minimum of one (1") inch of concrete cover and clean threads.
- 3. All conduit terminating in sheet steel enclosures shall have double locknuts and a bushing. Locknuts shall be a type which will "bite" into the metal of the box. All bushings shall be of the insulating
- 4. Conduit shall be run concealed in finished areas. The routing of all surface mounted/exposed conduit in finished areas shall be coordinated with, and shall be approved by the architect prior to
- Where conduits passing through openings are exposed in finished rooms, finishes of filling materials shall match and be flush with adjoining floor, ceiling and wall finishes

6 Conduits shall not be run on the exterior of the building or on the

roof unless specifically indicated on the drawings. The routing of

- such conduits shall be approved by the Architect.
- 7. Homeruns to panels shall be 3/4" minimum.
- 8. Conduit in ground floor shall be run under the slab, but may not be 9. Exterior underground conduits shall be 30" below grade, minimum
- 10. Conduit passing through exterior walls for entry into building and floors below grade shall be made watertight with caulking compound and pipe sleeves with wall collar extending 8" all around the conduit. Collar shall be 1/8" thick steel welded to sleeve. Coordinate material requirements with the Contractor. Underground joints shall be sealed.

11. Where conduits pass through masonry or concrete walls, foundations

- or floors, the Electrical Contractor shall set such sleeves as are necessary for passage of the conduits. Sleeves shall be of sufficient size to provide air space around the conduit passing through for fireproofing. The Electrical Contractor shall be responsible for the exact location of sleeves provided under his Contract. 12. Conduit supporting systems shall be attached to the deck, slab, or
- wires or framing members. 13. Conduits or other raceway systems that penetrate fire or smoke rated walls ceilings decks partitions etc. shall be constructed so as to maintain the integrity of the fire or smoke rated areas.

structural framing only and not to any other appurtenances at the

ceiling such as mechanical ducts, pipes and suspended ceiling hanger

14. A separate ground must be run in all P.V.C. conduit. Conduit size shall be increased to accept ground when required. Vertical transitions shall be made with rigid steel ells.

## 2.02 WIRE AND CABLE

shall be stranded.

2.03 WIRING DEVICES

- Wire and cable for lighting feeders shall be 600 volt type THHN/THWN or XHHW copper. Aluminum wiring is an acceptable alternate for feeders 100
- Wire and cable for power and lighting branch circuits shall be TW/UF
- copper for #8 and smaller and THHW or XHHW copper for #6 and larger. Wire sizes shall be based on the 60°C ampacities for wire sizes #14 through #1AWG, and 75°C ampacities for wire sizes #1/0 AWG and larger. Minimum wire size for power and lighting circuits shall be #12. Wire sizes #12 and smaller shall be solid. Wire sizes #10 and larger
- Where size is not indicated, Conductor size #12 minimum shall be used for circuits less than 120 feet and size #10 minimum shall be used for circuits greater than 120 feet.
- Joints in #10 and smaller wire shall be made with Minnesota Mining and Manufacturing Co. insulated "Scotch Locks", Ideal Co. "Wing\_Nut" T & B Co. "Piggy" connectors, or with mechanically crimped sleeves as manufactured by T & B Co., or Ideal Co. Connector sleeves shall be insulated with pressure sensitive electrical tape equal to Minnesota Mining and Manufacturing Co. Scotch No. 33 "plus" or Raychem Corp. heat shrinkable tape.
- 6. Joints in #8 and larger shall be made with pressure type mechanical connectors and insulated with electrical tape to 150% of the insulating value of the conductor insulation.
- 7. Color code wire and cable for circuits as called for in the National Electric Code.

### 8. All mechanical wire & cable terminations shall be torque—tightened with torque wrench or torque screwdriver to manufacturer's recommended torque values.

A. Materials Local light switches shall be back and side wired. 20 ampere. 120/277 volts, AC Specification Grade. Manufacturers and their catalog numbers indicated are acceptable.

	Hubbell	Pass & Seymour	Leviton	Bryant	
Single pole	HBL1221	20AC1	1221	4901	
Three-way	HBL1223	20AC3	1223	4903	

Convenience outlets for 120 volt general use shall be duplex 20 ampere, 125 volt, 3 wire, grounding type. The top shall be of high impact thermoplastic such as nylon. The strap shall be heavy duty steel that wraps around the device. Ground contacts shall be brass and riveted to the strap. Automatic ground clip shall be provided. Manufacturers and their catalog numbers listed are acceptable.

## Seymour Leviton 5362 5362 5362

- All switch and convenience outlet plates shall be smooth finish thermoplastic material such as nylon to suit outlets provided. insure uniform color, plates and devices shall be of one manufacturer. In unfinished areas, use cadmium plated round corner steel cover plates.
- 4. All 15— and 20—ampere, 120—volt nonlocking type receptacles in the areas specified in NEC 406.12(1) through (7) shall be listed tamper
- 5. Ground fault circuit interrupter (G.F.C.I.) receptacles, where required by local code, shall be Hubbell #AFGF15TR.

### Weatherproof receptacles shall be Hubbell #HBL5262WR duplex outlet with Hubbell #HBL5221 polycarbonate gray plate, box mount. B. Execution

- Provide receptacles and switches as indicated. Colors of device and plates shall be selected by the Architect. Verify before installation.
- 2. Adjacent devices shall be mounted in ganged boxes. Junction boxes shall not be installed above gypboard ceilings, due to inaccessibility.

## 2.04 DISCONNECT SWITCHES A. Disconnect switches, unfused or fused, single throw, shall be installed where indicated on the Drawings and/or where required by Code. Switches

- shall be heavy duty for indoors or outdoors as required and manufactured by Square D, General Electric, Siemens or Cutler-Hammer. B. If double lugging or oversized wires are required, provide a wireway or splice
- 2.05 SUPPORTING DEVICES A. All hardware, supports, hangers, angle iron, channels, rods, clamps necessary to install electrical equipment and lighting fixtures shall be supplied to
- suit conditions and application. The use of perforated straps will not B. Supporting devices shall be galvanized or aluminum material.

- 2.06 FOLIPMENT MOUNTING A. All equipment mounted on exterior walls shall be attached to 3/4" plywood boards furred out 1" from wall. Provide painting of plywood boards \_ finish as selected by the Architect.
- 2.07 EXCAVATION, CONCRETE AND BACKFILL A. Provide all excavation, concrete and backfill required for electrical work exclusively. All concrete work shall be in accordance with the
- requirements of The State of Ohio. 2.08 PADS, FOUNDATIONS AND ENCLOSURES A. Provide pads, foundations, and enclosures required for electrical equipment.

All floor mounted or exterior equipment is to be on 4" concrete pads

- unless otherwise indicated. B. Exterior concrete shall be thourosealed.
- C. Pads for Utility Company transformers: follow Utility Company requirements. END OF SECTION

SECTION 16400 - SERVICE AND DISTRIBUTION

PART 1 - GENERAL

## 1.01 GENERAL

A. Work Includes

## Branch Circuit Panelboards

ten (10) feet long.

### B. Related Work Specified Elsewhere Section 16010 - General Electrical Provisions Section 16050 — Basic Electrical Materials and Methods

Section 16400 - Power Distribution Equipment

- 1.02 GROUNDING A. Ground all conduits, cabinets, motors, panels and other exposed non-current carrying metal parts of electrical equipment in accordance with all
- panelboards with an installed #12 conductor to grounding bus C. The preferred method of grounding to earth is by an underground water piping system, if available, supplemented by the use of driven rods. Ground rods shall be copper\_weld not less than 3/4" in diameter and

provisions of the National Electric Code and local codes.

B. Ground all conduits by means of aroundina bushinas on terminations at

D. Grounding of the electrical system shall be by means of an insulated grounding conductor installed with circuit conductors in all conduits. Grounding conductors shall be sized in accordance with N.E.C. 250\_95 and shall run from grounding bus of serving panel to ground bus of

## served panel, grounding screw of receptacles, lighting fixture housings, light switch outlet boxes or metal enclosures of served equipment.

- Install bonding jumpers across all buildings, expansion joints, and across
- F. Conductors for grounding system shall be soft or medium hard drawn, stranded, bare copper except where otherwise noted.
- 1. All conductors #8AWG and smaller shall be insulated

## PART 2 - PRODUCTS AND EXECUTION

## 2.01 CIRCUIT BREAKER PANELBOARDS

- Panelboards shall be of the dead front safety type. Bus bars shall have anti\_turn solderless lug connections for attaching feeders. Where two or three\_pole breakers are required, they shall be common trip. Panelboards shall be Square D, Siemens,
- Cutler-Hammer/Westinghouse, General Electric.
- a. Provide nameplates on all equipment of the type listed in the following schedule: Panel boards, Safety Switches
- b. Lettering shall include name of equipment, horsepower, voltage rating and service designation.
- c. Name plates shall be laminated phenolic with a black surface and white core. Nameplates may be attached to wall adjacent to equipment if area for attachment is too small. Identification with a Dymo typeinstrument is not permissible
- d. Nameplates on panel boards, distribution panels, etc., in unfinished areas should be on exterior trim near top.
- 3. All branch circuit panelboards shall be circuit breaker type with provisions for bolt on type circuit breakers.

### Circuit breakers shall be bolt on type, 10,000 ampere symmetrical short circuit capacity minimum unless otherwise shown on the drawings.

Panels shall be mounted so that top of panels are at 6'-0" above

### 2. A glazed directory frame shall be provided inside the door and shall be of sufficient size to give description of each circuit. Typed directory cards shall be provided listing each circuit served.

Transformers shall be dry type, 115 deg. centigrade rise, with four  $2_1/2\%$ full capacity taps (two above \_ two below normal voltage) for 30 KVA and below. 150 deg. centigrade rise, with six  $2_1/1\%$  full capacity taps (two above four below normal voltage) above 30 KVA. Transformer sound levels shall not exceed NEMA Standards. Provide a mounting platforms for wall or truss mounted transformers as required Primary and secondary connections shall be made with flexible conduit Transformers shall be as manufactured by Square D, General Electric, Siemens, Acme, or Hevi-Duty.

## PART 3 - EXECUTION

A. Execution

- 3.01 GROUNDING A. All connections of ground conductors to bus bars, structural members, pines or fences and splices of around conductors shall be made by exothermic welds except where otherwise noted. All connections to bar lugs shall be exothermic weld or compression type. Bolted type connection of ground conductors may only be made where terminal lugs or blocks have been furnished and installed in equipment by the
- B. The resistance to ground for the entire grounding system shall not exceed

25 ohms under normal dry conditions

Tests of grounding resistance shall not be made within 24 hours after a rainfall. If after testing the system, it is found that the resistance to absolute earth exceeds 15 ohms, the Contractor shall install the necessary number of around rods to reduce the resistance to less than 15 ohms. These tests shall be conducted in the presence of the local Electrical Inspector. The test results shall be submitted to the

## END OF SECTION

Owner/Engineer.

## SECTION 16500 - LIGHTING PART 1 - GENERAL

Interior Lighting

Exterior Lighting

## A. Work Includes

1.01 GENERAL

PART 2 - EXECUTION 2.01 EXECUTION A. Light fixtures (luminaire) shall be as specified on the lighting fixture schedule as indicated on the drawings. Where fixture types are indicated

as a manufacturer's series, the contractor shall provide the correct

trim, mounting hardware, lengths, etc., to complete the installation as indicated on the electrical/architectural drawings. All fixtures shall be securely supported with approved hangers. Fixtures shall be supported from structural ceiling or structural supports, not suspended ceiling supports, independent of ceiling material. Fixtures shall be secured per IBC, state and local seismic requirements. Surface

### mounted fixtures must have additional ceiling support as acceptable by the Architect.

## END OF SECTION

- SECTION 16700 COMMUNICATIONS
- PART 1 GENERAL 1.01 GENERAL

## A. Work includes telephone/data conduit system PART 2 - PRODUCTS AND EXECUTION

above ceilina space.

2.01 DESCRIPTION A. The Contractor shall provide a complete system of telephone/data cabinets, outlet boxes, conduit and miscellaneous fittings and materials to provide a complete data raceway system. Data equipment, terminals, cable and the associated labor shall be furnished and installed by low voltage contractor under a separate agreement with the Owner. All work shall be provided in accordance with the requirements of the local

## telecommunications company and as indicated on the drawings.

- 1. All conduits required for telephone/data outlets as shown on the drawings shall be provided complete with pull wires. Conduit shall be 3/4" minimum and the complete system shall conform with the telephone company requirements. Provide empty conduits with appropriately sized pull strings from each outlet to conduit stub
- be hung from bridal type rings or placed in cable tray by the E.C. in exposed ceiling areas, All cabling shall be run in conduit to the nearest accessible ceiling location 3. The E.C. shall coordinate the exact location of all device boxes for security system, conduit for low voltage cable and 120V power for
- consultant prior to rough—in.

END OF SECTION

## ELECTRICAL SYMBOL LEGEND

## <u>SYMBOL</u> <u>DESCRIPTION</u> INDICATES HOMERUN [2#12AWG,1#12AWG(G)-3/4"C] TO PANEL "A"

SWITCH - SINGLE POLE - MOUNTED AT 48" A.F.F.

OS - DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH

(TYPICALLY WATTSTOPPER DW-100, 120/277V.)

- 3 INDICATES 3-WAY OPERATION DIMMER, MOUNTED AT 48" AFF. COMPATIBLE WITH ROOM LIGHTING CONTROL. 4 BUTTON - ON, RAISE, LOWER, OFF
- WIRELESS CEILING MOUNTED PASSIVE INFRARED, OCCUPANCY/VACANCY SENSOR, WHITE FINISH. TYPICAL LUTRON (400 SQ. FT. COVERAGE)
- LINE VOLTAGE POWER PACK. WIRE ALL RELATED SENSORS TO POWER PACK FOR ROOM LIGHTING CONTROL.
- DUPLEX RECEPTACLE MOUNTED AT 18" A.F.F. VERIFY EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. G - G.F.C.I. TYPE
- C MOUNTED 7" ABOVE COUNTERTOP WPG - WEATHERPROOF, G.F.C.I. MOUNTED AT 24" ABOVE GRADE

DUPLEX RECEPTACLE - MOUNTING AT 48" A.F.F.

- DOUBLE DUPLEX (QUADPLEX) RECEPTACLE
- SPECIAL PURPOSE RECEPTACLE SEE PLANS FOR DESCRIPTIONS
- JUNCTION BOX MOUNTING HEIGHT/LOCATION AS INDICATED

EXHAUST FAN - SINGLE PHASE MOTOR

UNFUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

48" A.F.F.

A.F.F., WHITE FINISH.

CIRCUIT BREAKER PANELBOARD

- TELEPHONE TERMINAL BACKBOARD (T.T.B.), 3/4"D. PLYWOOD. FIRE ALARM PULL STATION WITH AUDIBLE SAFETY GUARD - MOUNTING AT
  - FIRE ALARM SYSTEM HORN/STROBE WITH FLASHING STROBE LIGHT-MOUNTING AT 80" A.F.F., WHITE FINISH. FIRE ALARM (VISUAL ONLY) FLASHING STROBE LIGHT- MOUNTING AT 80"

ELECTRICAL SYMBOL NOTES

EXAMPLE: LIGHTING FIXTURE TYPE "A" IS CONTROLLED BY SWITCH "b".

ALL DATA/VOICE OUTLETS TO BE 4" SQUARE FLUSH JUNCTION BOX WITH

SINGLE OR DOUBLE GANG PLASTER RING. ELECTRICAL CONTRACTOR TO

- THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER. THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER. HATCHING AND 'NL" INDICATE FIXTURE IS WIRED FOR NIGHT LIGHT (24 HOUR) OPERATION.
- SPECIAL CONNECTIONS. THE EQUIPMENT IS INDICATED BY A NUMBER IN A HEXAGON. SEE THE MECHANICAL EQUIPMENT SCHEDULE FOR THE LOAD DESCRIPTION AND TYPE OF CONNECTION. EXAMPLE: EQUIPMENT NO. 1

## PROVIDE 3/4" CONDUIT WITH PULLSTRING AND INSULATING BUSHING STUBBED 6" ABOVE CEILING. ALL DATA/VOICE JACKS, COVERPLATES, AND WIRING/CABLE SHALL BE PROVIDED BY A QUALIFIED LOW VOLTAGE CONTRÁCTOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT (18" A.F.F.)

ELECTRICAL ABBREVIATIONS LIST 1P 1 POLE (2P, 3P, 4P, ETC.) LTG LIGHTING LV LOW VOLTAGE AROVE FINISHED FLOOR MCB MAIN CIRCUIT BREAKER

PNL PANEL

PWR

WH

POWER

WATER HEATER

WEATHERPROOF

\* NOTE \*

ALL GENERAL NOTES ON THIS SHEET ARE

TO BE APPLIED TO ALL OTHER DRAWINGS IN

SHOWN ON THIS SHEET MAY OR MAY NOT

BE USED IN THIS SET OF DRAWINGS.

THIS SET. THE SYMBOLS AND ABBREVIATIONS

XFMR TRANSFORMER

Ø PHASE

PVC POLYVINYL CHLORIDE (CONDUIT)

- ABOVE FINISHED GRADE MLO MAIN LUGS ONLY AFCI ARC FAULT CIRCUIT MANUAL MOTOR STARTER INTERRUPTER MTR MOTOR, MOTORIZED ALUMINUM NEC NATIONAL ELECTRICAL CODE ARCH ARCHITECT, ARCHITECTURAL NEMA NATIONAL ELECTRICAL AS AMP SWITCH MANUFACTURER'S ASSOCIATION AWG AMERICAN WIRE GAUGE NTS NOT TO SCALE BLDG BUILDING
- CFILING RCPT RECEPTACLE CURRENT TRANSFORMER RM ROOM COPPER TEL/DATA TELEPHONE/DATA DISC DISCONNECT TYP TYPICAL DIST DISTRIBUTION UC UNDER COUNTER DWG DRAWING UNDERGROUND ELECTRICAL CONTRACTOR UON UNLESS OTHERWISE NOTED

AMPFRF

CONDUIT

CIRCUIT BREAKER

EXHAUST FAN

ELEC ELECTRIC, ELECTRICAL

HORSEPOWER

CONDITIONING

J-BOX JUNCTION BOX

HVAC HEATING, VENTILATING AND AIR

EWH ELECTRIC WATER HEATER

EQUIP EQUIPMENT

HTG HEATING

AFF

- FLR FLOOR GENERAL CONTRACTOR All low voltage and system cabling located above ceilings shall be GROUND FAULT CIRCUIT properly rated for the application. Without exception, all cabling shall INTERRUPTER GND GROUND GYP GYPSUM BOARD
- to rough—in. Coordinate communications cabling, routing, mounting boxes, and terminations with the Owner, Architect and Owner's communications

card readers/sensors with the Owner's security system vendor prior

ISSUE DATE:

DENK

-53558

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NOIL KESS TRANSI OAD JH ST/ 38( CL|

> •••••••(( •••••• **000000000 DOOOOOO JÕÕÕOOOO**!

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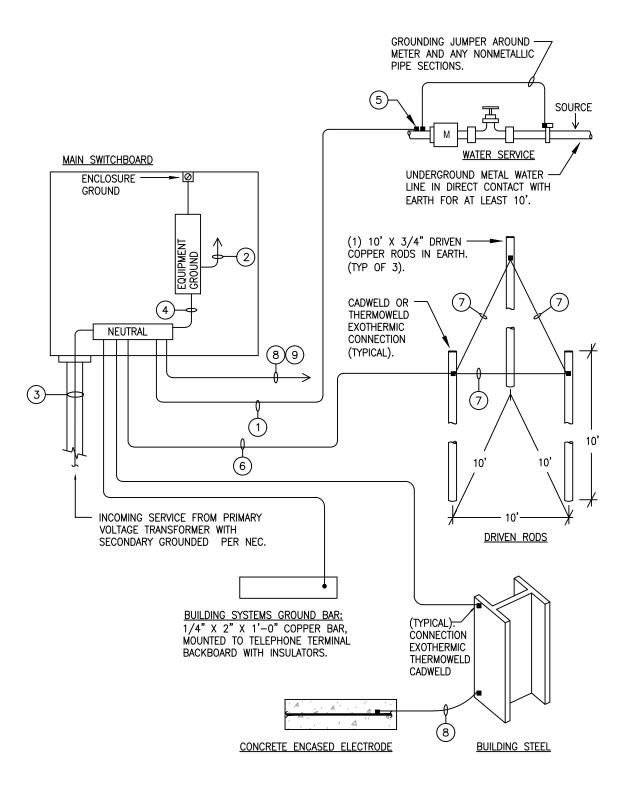
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PERMIT & CONSTRUCTION **DOCUMENTS** 

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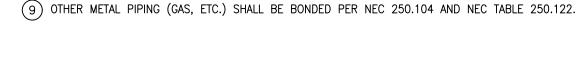
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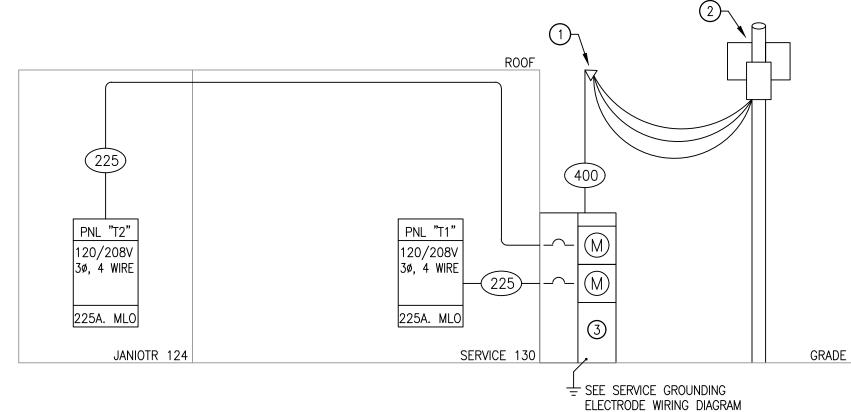


## SERVICE GROUNDING ELECTRODE DIAGRAM SCALE: N.T.S.

## GROUNDING DIAGRAM NOTES

- THE GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER TABLE 250.66 OF THE NEC. THE CONDUCTOR SHALL BE CONNECTED TO AN APPROVED GROUNDING ELECTRODE.
- 2 GROUND CONDUCTORS TO OTHER POINTS AND EQUIPMENT, AS REQUIRED BY NEC ARTICLE 250.
- (3) SERVICE ENTRANCE PHASE CONDUCTORS WITH GROUNDED (NEUTRAL) CONDUCTOR.
- (4) MAIN BONDING JUMPER SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- (5) INTERIOR METAL WATER PIPING CONNECTIONS SHALL BE MADE WITHIN 5' OF BUILDING ENTRANCE
- PER NEC 250.52(A)(1) (6) GROUND ROD ELECTRODE - PROVIDE #4/0 AWG COPPER GROUNDING ELECTRODE CONDUCTOR,
- (7) BONDING CONDUCTOR SHALL BE SIZED PER TABLE 250.66 OF THE NEC.
- (8) METAL WATER PIPING AND STRUCTURAL STEEL %%UNOT%%U INTENTIONALLY GROUNDED SHALL BE BONDED PER NEC 250.104 AND NEC TABLE 250.66.





## ONE LINE POWER DISTRIBUTION

## ONE-LINE POWER DISTRIBUTION CODED NOTES:

- (1) <u>WEATHERHEAD:</u> E.C. TO PROVIDE WEATHER HEAD MOUNTED ON SIDE OF BUILDING (SECONDARY CONNECTION PROVIDED BY THE UTILITY CO.)
- (2) <u>NEW UTILITY POLE:</u> UTILITY COMPANY TO FURNISH AND INSTALL NEW OVERHEAD PRIMARIES AND NEW 30 POLE-MOUNTED TRANSFORMERS.
- 3 COMMERCIAL METER STACK: 120/208V.-3ø-4W, 400A RATED ENCLOSURE WITH (2) METER SOCKETS [METER PROVIDED BY UTILITY COMPANY]. E.C. TO INSTALL (2) 225A/3P MAIN TENANT CIRCUIT BREAKERS.

## CONDUIT AND WIRE SCHEDULE

COPPER CONDUCTORS

225) 2-1/2" COND, (4)#4/0 AWG, #4(G) AWG (400) 3" COND, (4)500 KCMIL

	_			
TYPE	WAT	TAGE	DESCRIPTION	CATALOG #
111 L	LAMP	FIXTURE	DESCIVII HOIV	CATALOG #
A2	LED 3500K 2,400L	19W	2'X2' 'CRUZE' SPECIFICATION GRADE LED TROFFER. UNIVERSAL VOLTAGE, 10% DIMMING (0-10V), ACRYLIC RIBBED FROSTED LENS.	COOPER 22CZ2-24-UNV- L835-CD1-U
A4	LED 3500K 3,000L	22W	2'X4' 'CRUZE' SPECIFICATION GRADE LED TROFFER. UNIVERSAL VOLTAGE, 10% DIMMING (0-10V), ACRYLIC RIBBED FROSTED LENS.	COOPER 24CZ2-30-UNV- L835-CD1-U
B4	LED 4000K 3,600L	31W	LED 4' SURFACE MOUNTED UTILITY WRAP FIXTURE, NON-DIMMING, 120-277V.	COOPER 4WP3040C
B8	LED 4000K 10,000L	69W	8' LED LINEAR LOW BAY FIXTURE, SYMMETRIC OPTICS, 0-10V DIMMING, 120-277V	COOPER 8LBLED-LD4-10- SYMF-UNV-L840- CD1-U
C •	LED 3500K 1,200L	16W	6" SURFACE MOUNT LED DOWNLIGHT, 90CRI, SELECTABLE CCT, 120V, MATTE WHITE.	COOPER SLD6129SE010MWF
SA	LED 4000K 26,100L	176W	LED AREA / SITE LUMINAIRE, 0-10V DIMMING, UNIVERSAL VOLTAGE.  POLE-MOUNTED 20' ABOVE GRADE	COOPER PRV-XL-C75-740- D-UNV-T4-SA-BZ
WP	LED	75W	LED MEDIUM WALL PACK, SELECTABLE LUMENS (5,000 - 10,000) SELECTABLE CCT, SELECTABLE DAWN-TODUSK VIA BUTTON-TYPE PHOTOCELL, MVOLT.	COOPER ASWPLED2S
BP	LED	1.8W	LOW PROFILE LED EMERGENCY LIGHT.	COOPER AP2SQLED
RH	LED	0.8W	LED EMERGENCY REMOTE HEADS, WET LOCATION	COOPER

LIGHTING FIXTURE SCHEDULE

## LIGHTING FIXTURE SCHEDULE NOTES:

abla 
brace

XEM

LED

LISTED

1. THE E.C. SHALL COORDINATE ALL COLORS, FINISHES, LENGTHS, AND TRIMS OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS, EXISTING CONDITIONS, ETC. AND INCLUDE APPROPRIATE TRIM (LAY-IN, DRYWALL, ETC.) IN BASE BID. SUBMISSION OF SHOP DRAWINGS WILL BE INTERPRETED THAT THIS COORDINATION WITH THE ARCHITECT HAS BEEN COMPLETED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO THE LACK OF THIS COORDINATION.

LED UNIVERSAL MOUNT EXIT SIGN WITH WHITE

HOUSING AND RED LETTERS AND DUAL HEADS

2. THE E.C. SHALL INCLUDE WITHIN THE SHOP DRAWINGS SUBMITTALS ALL LIGHT FIXTURE DETAILS REGARDING EFFICIENCY, POWER FACTOR, THD, AND PERFORMANCE CHARACTERISTICS.

## ELECTRICAL GENERAL NOTES

- 1. THE E.C. SHALL BE RESPONSIBLE FOR COORDINATING THE VARIOUS EQUIPMENT PLACEMENTS, ROUGH-INS, BUILDING PENETRATIONS, AND SYSTEM RUNS WITH THE G.C. AND ALL OTHER TRADES, AND RESPECTIVE UTILITY COMPANIES PRIOR TO CONSTRUCTION AND PURCHASE/SHIPMENT OF
- 2. THE E.C. SHALL COORDINATE LOCATION OF ALL LIGHT FIXTURES AND CEILING MOUNTED DEVICES WITH THE ARCHITECTURAL CEILING PLAN, SECTIONS, ELEVATIONS, AND DETAILS. THE E.C. SHALL ALSO COORDINATE LOCATION OF RECEPTACLES, DATA OUTLETS, AND ALL OTHER WALL MOUNTED DEVICES WITH THE ARCHITECTURAL WALL FINISHES AND ELEVATIONS.
- 3. THE E.C. SHALL VERIFY THE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH THE M.C. EXACT ELECTRICAL REQUIREMENTS SHALL BE VERIFIED IN THE FIELD WITH THE EQUIPMENT NAMEPLATE DATA. THE E.C. SHALL MAKE APPROPRIATE ADJUSTMENTS TO WIRE AND FUSE SIZES IN ACCORDANCE WITH THE NAMEPLATE DATA.
- 4. THE MEANS OF DISCONNECT/CONTROL FOR ALL EQUIPMENT AND DISCONNECTS SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION AND SHALL HAVE PROPER WORKING SPACE AS DEFINED IN NEC ARTICLE 100 AND 110.

## SERVICE PLAQUE NOTE

ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, AND METER SOCKET ENCLOSURES THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE PERMANENTLY MARKED TO INDICATE WHERE POWER ORIGINATES. THE E.C. SHALL PROVIDE PERMANENT PLAQUE ON SAID EQUIPMENT IN ACCORDANCE WITH N.E.C. ARTICLE 110.21 AND 110.22.

## ARC FLASH HAZARD NOTE: -

THE E.C. SHALL LABEL ALL PANELS FOR TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS (AS WELL AS FOLLOWING REQUIRED SAFETY PRECAUTIONS WHEN SERVICING OR MAINTAINING ELECTRICAL EQUIPMENT), IN ACCORDANCE WITH NEC 110.16. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE, SHALL BE PERMANENTLY AFFIXED, SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED, AND SHALL NOT BE HANDWRITTEN.

## FAULT CURRENT STUDY NOTE:-

THE E.C. SHALL INCLUDE THE COST TO PROVIDE A FAULT CURRENT STUDY BASE ON THIS DESIGN AND COORDINATE WITH THE AVAILABLE FAULT CURRENT DETERMINED BY THE UTILITY COMPANY. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT AND INCLUDE THE DATE THE FAULT-CURRENT CALCULATION WAS PERFORMED, SHALL CONTAIN IDENTIFICATION MARKINGS IN ACCORDANCE WITH N.E.C. ARTICLE 110.24. THE CALCULATION SHALL BE DOCUMENTED AND MADE AVAILABLE TO THOSE AUTHORIZED TO DESIGN, INSTALL, INSPECT, MAINTAIN, OR OPERATE THE SYSTEM.

APWR2

COOPER

APC7R

ISSUE DATE:

07.18.23

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ELECTRICAL DETAILS, SCHEDULES, AND POWER RISER DIAGRA

DAI PROJECT NO.

23085 CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION **DOCUMENTS** 

		NEW	/ PAN	ELBC	ARD			"T1"						SCHI	EDUL	E					
	VOLTAGE:	208Y/1	120V-3F	PH-4W	MAINS	200A.	MLO					МО	UNTIN	G: SL	JRFACE	<b>=</b>		REMAR	RKS:	GE	
	BUS SIZE:	200	AMP		TOTAL	LOAD	7.3	KVA													
T				LOAD				BRKR		F	PH		BRKR			LOAD	(KVA)				
Ю.	SERVES	LTG	RCPT		AC	HTG	MISC		Р	A E		Р	TRIP	MISC	HTG	A/C	, ,	RCPT	LTG	SERVES	
1	IRH-1					0.2		20	1	•		- 1	20				1.6			EXHAUST FAN	
3	GARAGE DOOR QUAD		1.0					20	1	$\downarrow$	igwdap	1	20				1.0			GARAGE DOOR QUAI	5
5	GENERAL RCPT		0.5					20	1	_	┥	1	20				0.5			GENERAL RCPT	
7	GENERAL RCPT		0.5					20	1	<b>-</b>	$\vdash$	1	20						0.5	SITE LIGHTING	
9	GARAGE DOOR MTR							20	1	+	igwdot	1	20						1.5	LIGHTING	
11	OFFICE 132 RCPT							20	1	-	┥	. 1	20							GARAGE DOOR MTR	
13	SPACE							-	-	┿	Н		-							SPACE	
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		1				·								0.0	0.2	0.0	3.1	2.0	2.0	CONNECTED KVA	7.3
_																			1	DEMAND KVA	8.1

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
(ITEM)	DESCRIPTION	VOLTAGE AND PHASE	KW	CONNECTION	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT No.	CIRCUIT BREAKER	NOTES			
E1-1	IRH-1	120V1ø	0.2	D.C.	2#12AWG, 1#12AWG(G)-3/4°C.	T1	#	20/1	1			
E1-2	EF-5	120V1ø	1.6	*	2#10AWG, 1#10AWG(G)-3/4"C.	T1	#	25/1	1,2			

## MECH. EQUIPT. CONNECTION SCHEDULE NOTES:

SCHEDULE LEGEND

- 1. THE E.C. SHALL VERIFY ALL NEW EQUIPMENT SPECIFICATIONS (VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH M.C. PRIOR TO PLACING PURCHASE ORDER FOR DISTRIBUTION EQUIPMENT AND ROUGH—IN. THE E.C. SHALL ALSO BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS, PROPER NEMA RECEPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.
- D.C. DIRECT CONNECTION
  (INTEGRAL DISCONNECT)

2. EF-5 TO BE CONTROLLED VIA REVERSE ACTING THERMOSTAT.

		NEW	/ PAN	ELBC	ARD			"T2"						SCH	EDUL	E					
	VOLTAGE:	208Y/1	120V-3P	H-4W	MAINS	200A.	MLO					MO	UNTIN	G SU	RFACE			REMAR	RKS:	GE	
	BUS SIZE:	200	AMP		TOTAL	LOAD	26.5	KVA													
				LOAD	(KVA)			BRKR		Pl	1		BRKR			LOAD	(KVA)				
О.	SERVES	LTG	RCPT		A/C	HTG	MISC	TRIP	Р	ΑВ	С	Р	TRIP	MISC	HTG	A/C	· /	RCPT	LTG	SERVES	
1	CU-1				3.7			30	2	•	#	2	40			5				CU-2	
5	0.111.4									$\perp \perp$	<b>→</b> [	1	20		1.3					HVAC-1	
7	CUH-1					3		20	2	+	4	1	20		1.7					HVAC-2	
9	WATER HEATER							20	1	+		1	20						1.0	LIGHTING	
1	BREAK RM FRIDGE		0.8					20	1	$\perp \perp$	<b>→</b> [	1	20					1.5		BREAK RM EQUIP	
3	BREAK RM EQUIP							20	1	$\downarrow$	<b>-</b>  [	1	20					0.5		BREAK RM RCPT	
5	OFFICE 114 RCPT		1.1					20	1	+		1	20					0.7		OFFICE 113 RCPT	
7	OFFICE 111/112 RCPT		1.4					20	1	$\perp$	-∳[	1	20					0.7		DRIVERS 101 RCPT	
9	TOILET/EXT. RCPT		0.5					20	1	+	+[	1	20					1.4		DISPATCH 110 RCPT	Г
1	DISPATCH 110 RCPT		1.4					20	1	+	+[	1	20					0.4		TOILET 122/123 RCP	T'
3	ROOF RCPT		0.4					20	1	++	→[	1	20							SPARE	
5	SPARE							20	1	+	+[	1	20							SPARE	
27	SPARE							20	1	+	+[	1	20							SPARE	
29	SPARE							20	1	++	•	1	20							SPARE	
31	SPARE							20	1	+	[	1	20							SPARE	
3	SPARE							20	1	++		1	20							SPARE	
35	SPARE							20	1	++	<b>→</b> [	1	20							SPARE	
37	SPACE							-	-	+	[	-	-							SPACE	
39	SPACE							ı	-	+	+[	-	-							SPACE	
41	SPACE							-	-		•	-	-							SPACE	
														0.0	6.0	8.7	0.0	10.8	1.0	CONNECTED KVA	26.5
										-			· ·		·		·			DEMAND KVA	21.6

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE												
(ITEM)	DESCRIPTION	VOLTAGE AND PHASE	KW	CONNECTION	CONDUIT AND WIRE SIZE	PANEL	CIRCUIT NO.	CIRCUIT BREAKER	NOTES			
E2-1	HVAC-1	120V1ø	1.3	S.P.D.S.	2#12AWG, 1#12AWG(G)-3/4"C.	T2	6	20/1	1			
E2-2	HVAC-2	120V1ø	1.7	S.P.D.S.	2#12AWG, 1#12AWG(G)-3/4"C.	T2	8	20/1	1			
E2-3	CU-1	208V1ø	3.7	W.P.D.S.	2#10AWG, 1#10AWG(G)-3/4"C.	T2	1,3	30/2	1			
E2-4	CU-2	208V1ø	5.0	W.P.D.S.	2#8AWG, 1#10AWG(G)-3/4"C.	T2	2,4	40/2	1			
E2-5	CUH-1	208V1ø	3.0	D.C.	2#12AWG, 1#12AWG(G)-3/4"C.	T2	5,7	20/2	1			
E2-6	WATER HEATER	120V1ø	2.0	D.C.	2#12AWG, 1#12AWG(G)-3/4°C.	T2	9	20/1	1			

## MECH. EQUIPT. CONNECTION SCHEDULE NOTES:

1. THE E.C. SHALL VERIFY ALL NEW EQUIPMENT SPECIFICATIONS (VOLTAGE, OVERCURRENT PROTECTION, ETC.) WITH M.C. PRIOR TO PLACING PURCHASE ORDER FOR DISTRIBUTION EQUIPMENT AND ROUGH—IN. THE E.C. SHALL ALSO BE RESPONSIBLE FOR PROVIDING ALL CONNECTIONS, PROPER NEMA RECEPTACLE CONFIGURATIONS, DEVICES, SAFETY SWITCHES, ETC. LISTED ON THIS SCHEDULE, AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

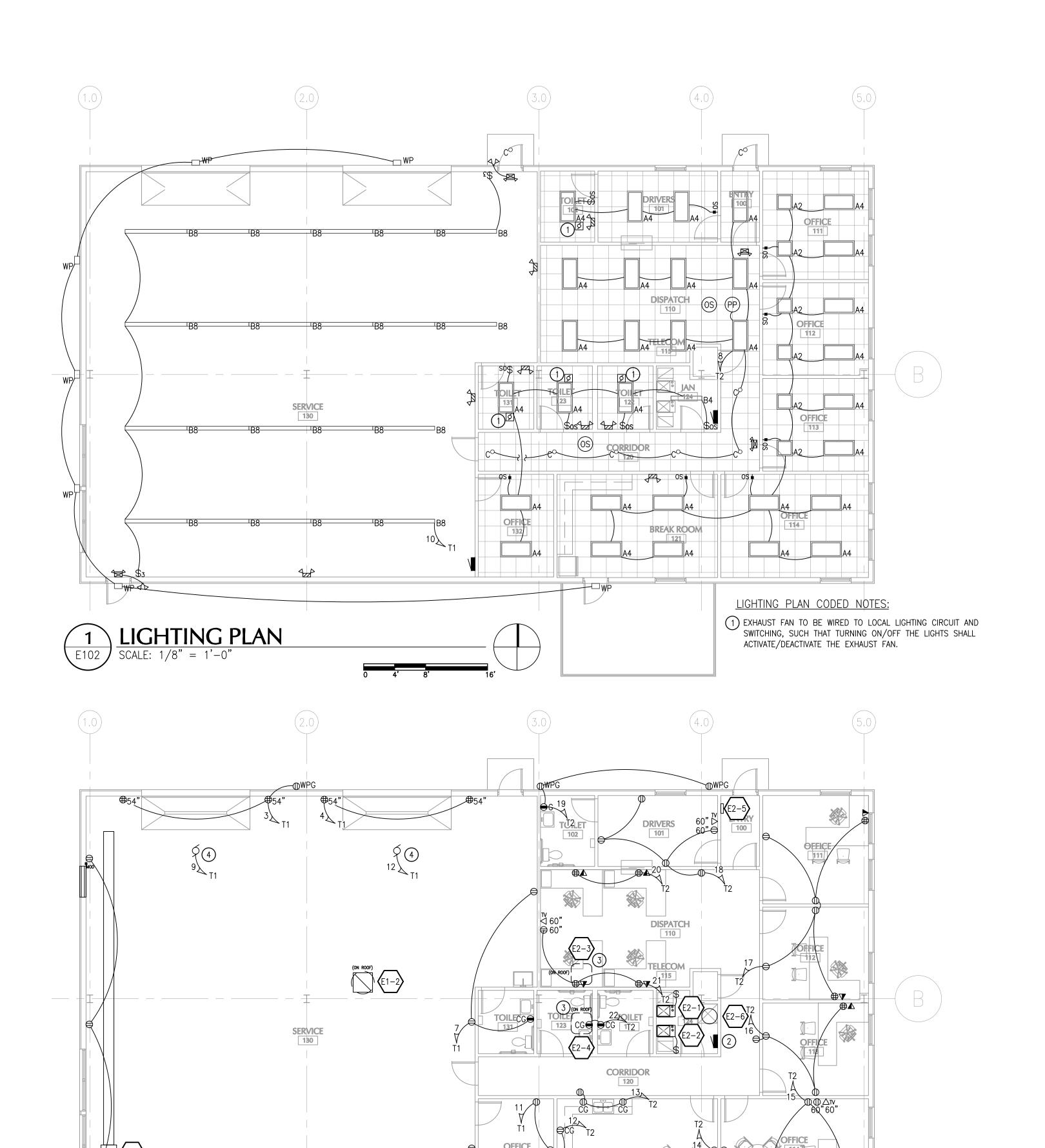
SCHEDULE LEGEND

W.P.D.S. – WEATHERPROOF DISC. SWITCH

S.P.D.S. – SINGLE POLE DISCONNECT SWITCH

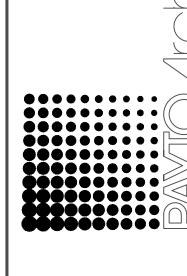
D.C. – DIRECT CONNECTION

(INTEGRAL DISCONNECT)



) POWER & COMMUNICATION PLAN

SCALE: 1/8" = 1'-0"



ISSUE DATE:

07.18.23

POWER AND
COMMUNICATION
COMMUNICATION
PLAN

POWER & COMM. PLAN CODED NOTES:

3 E.C. TO RUN CONDUIT UP TO ROOF AND PROVIDE CU CONVENIENCE RECEPTACLE CIRCUIT (AS REQUIRED BY NEC).

1) <u>PANEL T1:</u> 120/208V-3ø-4W, 225A, 42 SPACE.

2 PANEL T2: 120/208V-3ø-4W, 225A, 42 SPACE.

4 GARAGE DOOR MOTOR: 1HP

DAI PROJECT NO. 23085
CURRENT DATE: 07.18.23

PERMIT & CONSTRUCTION
DOCUMENTS

## **Cleveland City Planning Commission**

## **Staff Report**



# Overview



# Riparian Setbacks

- \*Juristictional " No build no disturb" boundaries setback from a bank or a stream to protect the riparian area and stream from the impacts of development. Protects stream-side residents/developments from flooding damage to structures and land loss through erosion; helps reduce damage to property
- \*\*351.01 Purpose: To reduce urban storm water pollutants, including pollutants already present in watercourses, especially during periods of high flows, through filtration, settlement, and absorption and transformation of those pollutants in the riparian and wetland setback, before the pollutants enter watercourses... Erosion, vegetation stripping, flood impact, etc.
- (e) The applicant or his or her designated representative shall be responsible for delineating riparian and wetland setbacks, including any expansions or modifications as required by these regulations, and identifying these setbacks on all property subdivision/property/parcel splits, commercial development or other land development plans, and/or building permit applications submitted to the City.
- (351.08) Allowed by right: Stabilizations, fencing, recreational activity, restoration
- (351.09) Prohibited: Construction, roads/driveways, Motorized vehicles, new surfaces, treatment areas
- (351.11) Variances should not be granted for asphalt or concrete paving in the riparian and wetland setbacks in any situation where gravel
  or porous pavement (i.e., porous pavers, and similar products) will do the job.
- (5) Soil disturbing activities permitted in a riparian setback areas or wetland setback areas through variances should be controlled in order to minimize clearing to the maximum extent possible, and must include Best Management Practices necessary to minimize soil erosion and maximize sediment control.
  - \* Summit Soil and Water Conservation District: sswcd.summitoh.net
  - \*\* Zoning code 351.01 -- 351.11 : https://codelibrary.amlegal.com/codes/cleveland/latest/cleveland\_oh/0-0-0-15354#JD\_351.01

# Overview



# Design Review Advisory Committee (DRAC)

During design review PB Express proposed a demo-new construction with a smaller gross area, and a wider frontage to the street outside of the buffer area

Parking and storage are located in the East and West portions of the parcel with additional storage to the North (Back) portion of the parcel that falls into the buffer zone

Committee, CDC, and councilwoman's concerns lie in the overall cause and effect of the area when building on a riparian setback buffer

Developer is proposing cleaning efforts of the area, replacing a dilapidated, unusable building, a previous surface (gravel), a storm water basin, landscaping to the front of the building, and overall a more aesthetic, sustainable and safer building for the area.

DRAC, agreed the use is appropriate for the location, and that the design is agreeable.

It was also mentioned that if the property were to remain as is, it would negatively impact the neighborhood and water supply. The consensus from most of the members were: "a development conscious of it's restrictions and making an effort to make it usable and sustainable, was better than doing nothing."





The motion form included a final 7/8 approval with the condition of continuous sustainable efforts from the developer, and the retention of gravel to keep it on the proposed areas, and out of the stream.

## **Near West Design Review Case**

LEGUELANDO DE LE

October 20, 2023

## **Committee Recommendation:** Approved with **Conditions**: {with 1 No Vote}

• Developers to consider gravel retention, look further into sustainable efforts regarding the riparian setback

#### **Far West Design Review Case**

ALL EVEL AND OH

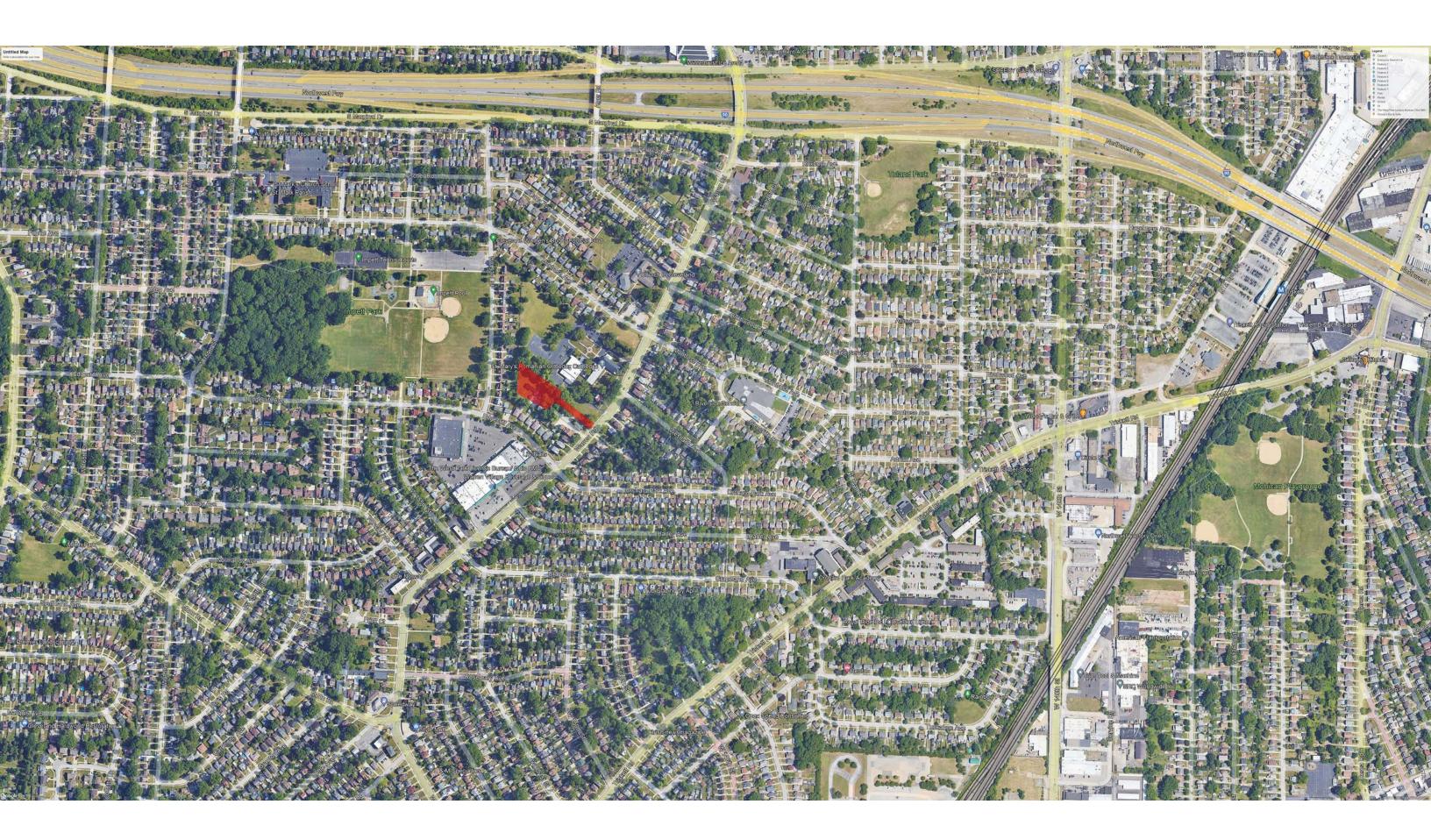
October 20, 2023

FW2023-020 – Warren Road Apartments New Construction: Seeing Schematic Design Approval

SPA: Kamm's Corners

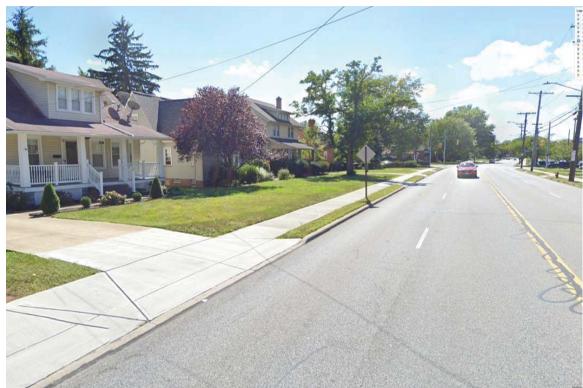
**Project Address: 3272 Warren Road** 

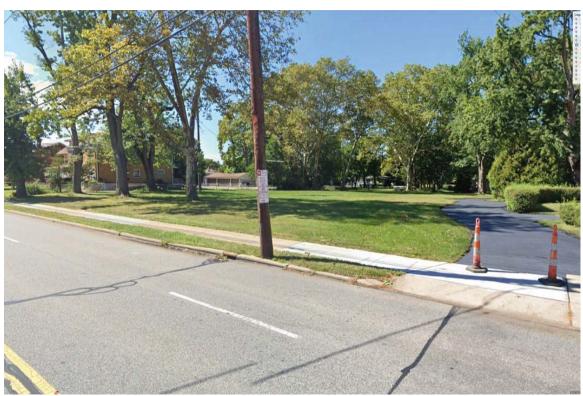
Project Representative: Brandon Young, Young Design











Site Data				
Unit Type 'A'	1st Flr.	2nd Flr.	3rd. Flr.	Total
2.5 BR, 2.5 Bath	696 SF	715 SF	664 SF	2075
Unit Type 'B'	840 SF	860 SF	788 SF	2488
3.5 BR, 2.5 Bath				
Site Yields	Area			1
Type 'A' Units: 12	24900			
Type 'B' Units: 7	17416			
Total Units: 19	42316	Total Bui	Iding Area	ı
		First Floo		





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Warren Rd Multifamily Development

MASTER PLAN

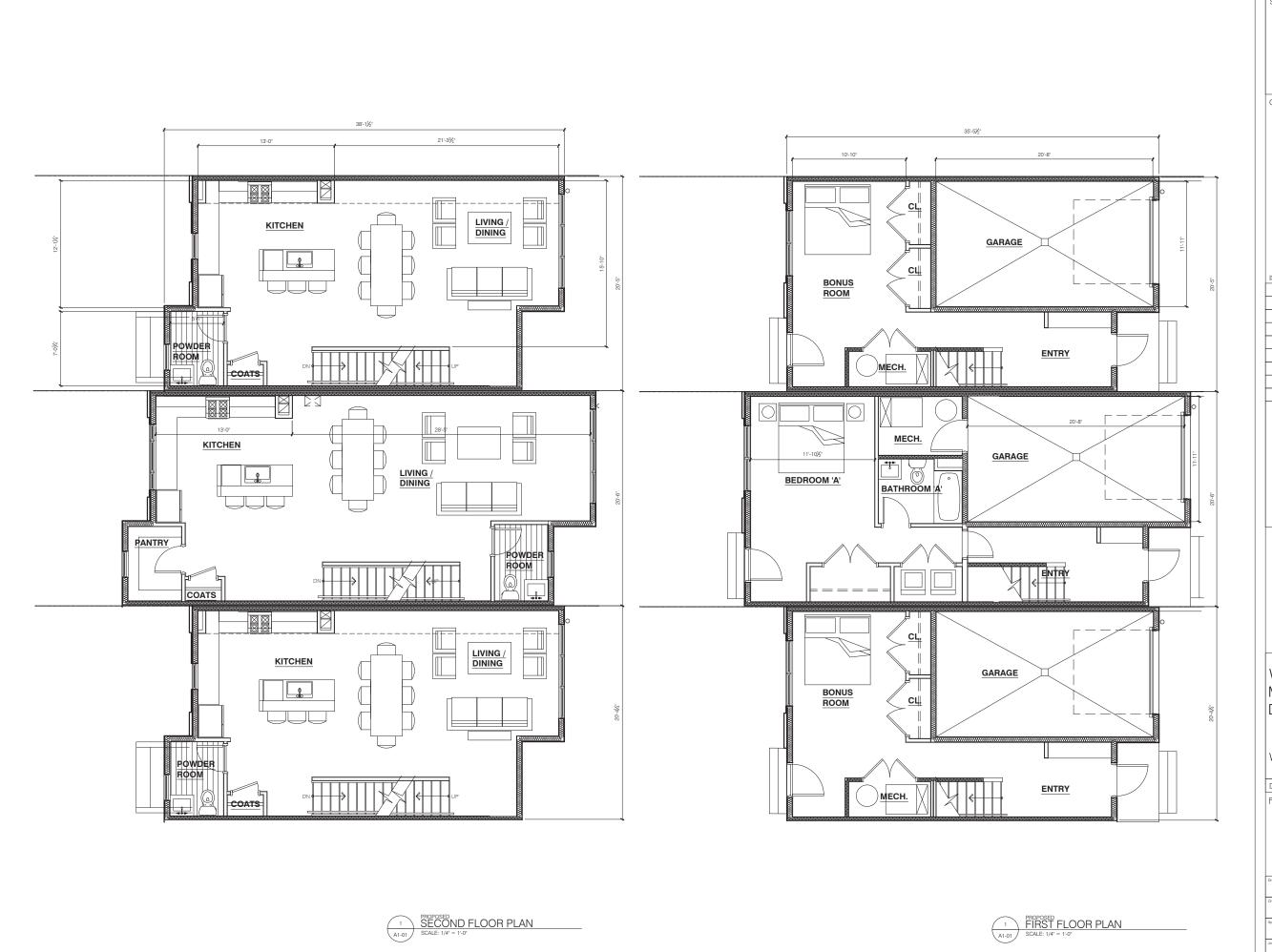
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BEY	09-25-2023
Checked by	Drawing Number
Approved	40.0

PROPOSED 3-STORY MULTI-FAMILY BUILDING PROPOSED 3-STORY PROPOSED 3-STORY
MULTI-FAMILY BUILDING MULTI-FAMILY BUILDING PROPOSED 3-STORY MULTI-FAMILY BUILDING PROPOSED 3-STORY
MULTI-FAMILY BUILDING PROPOSED 3-STORY
MULTI-FAMILY BUILDING Westpark, Ohio Drawing Title:









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RANDOC

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General Notes

YOUNG DESIGN STUDIO

15614 Detroit Ave.
Lakewood, OH 44107

www.youngdosignstudio.com
p. 216.616.9212

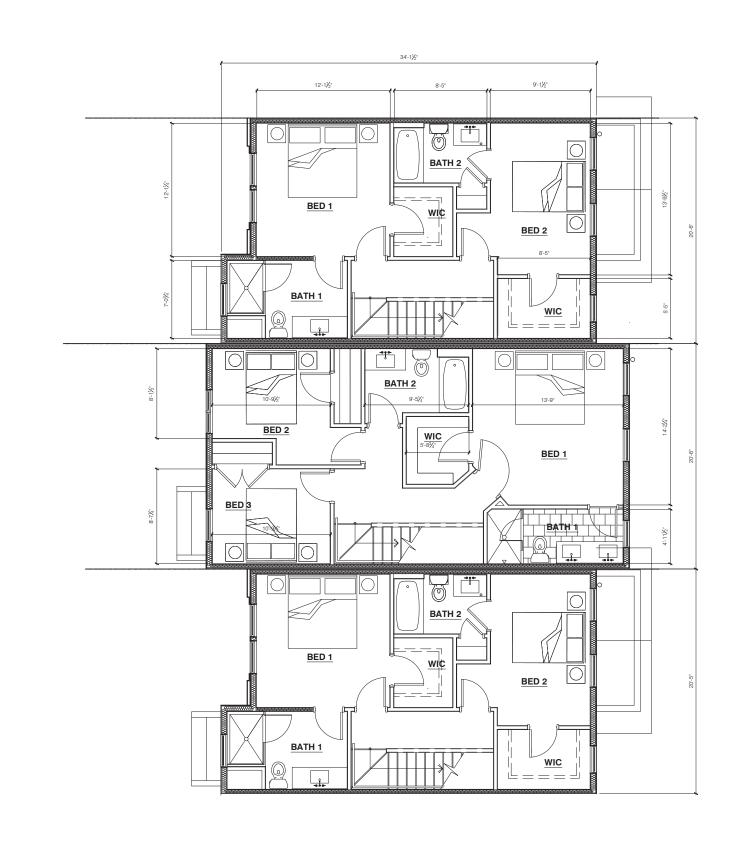
Architecture I Interiors I Urban Design

Warren Rd Multifamily Development

Westpark, Ohio

Drawing Title:
FLOOR PLANS

Approved:
A1-01





General Not

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YOUNG DESIGN STUDIO 15614 Detroit Ave. Lakewood, OH 44107

p. 216.616.9212

Architecture | Interiors | Urban Design

Warren Rd Multifamily Development

Westpark, Ohio

Drawing Title:
FLOOR PLANS

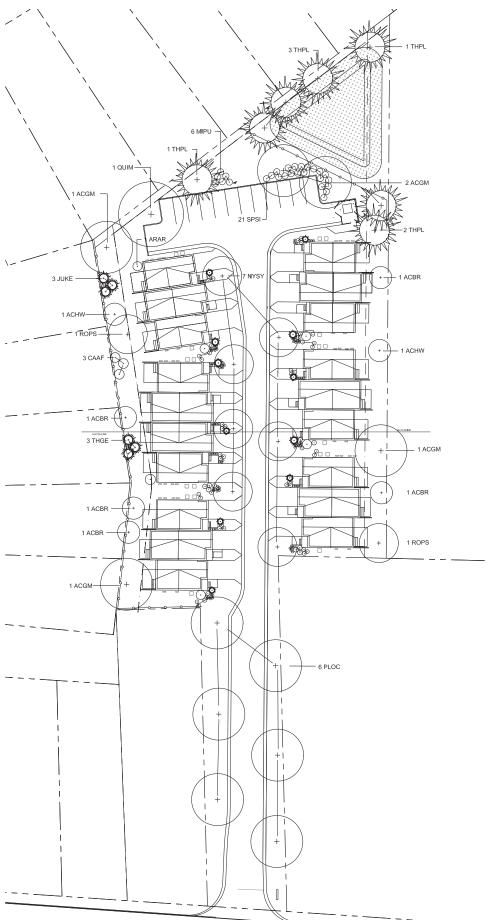
Drawn by:
BEY 09-27-2023
Checked by:
Drawing Number:

| Desired by: | Desired Number: | | Approved: | | A1-02 |

PROPOSED TLOOR PLAN

A1-02

SCALE: 1/4" = 1'-0"



#### SITE PLANT LIST

SYMBOL	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	REMARK
DECIDU	OUS TE	REES			-
ACBR	5	ACER RUBRUM 'BRANDYWINE'	BRANDYWINE RED MAPLE	2" C	B&B
ACGM	5	ACER SACCHARUM 'GREEN MOUNTAIN'	GREEN MOUNTAIN SUGAR MAPLE	2" C	B&B
ACHW	2	ACER TATARICUM 'HOT WINGS'	HOT WINGS TATARIAN MAPLE	2" C	B&B
CAAF	3	CARPINUS CAROLINIANA 'AUTUMN FIRE'	AUTUMN FIRE HORNBEAM	2" C	B&B
NYSY	7	NYSSA SYLVATICA	BLACK TUPELO	3" C	B&B MATO
PLOC	6	PLATANUS OCCIDENTALIS	SYCAMORE	3" C	B&B MATO
QUIM	1	QUERCUS IMBRICARIA	SHINGLE OAK	2" C	B&B
ROPS	2	ROBINIA PSEUDOACACIA 'PURPLE ROBE'	PURPLE ROBE BLACK LOCUST	2" C	B&B
EVERGE	REEN T	REES			B&B MAT
JUKE	8	JUNIPERUS CHINENSIS 'KETELEERI'	KETELEERI JUNIPER	5'	B&B
THPL	7	THUJA PLICATA	WESTERN ARBORVITAE	5'	
THGE	13	THUJA PLICATA 'GELDERLAND'	GELDERLAND WESTERN ARBORVITAE	5'	B&B
THGG	15	THUJA PLICATA 'GREEN GIANT'	GREEN GIANT WESTERN ARBORVITAE	5'	B&B
SHRUBS	3				
ARAR	1	ARONIA ARBUTIFOLIA 'BRILLIANTISSIMA'	BRILLIANT RED CHOKEBERY	24"	CONT.
ILJD	2	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	18"	CONT.
ILCH	3	ILEX VERTICILLATA 'CHRYSOCARPA'	YELLOW WINTERBERRY	24"	CONT.
ILRS	6	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	18"	CONT.
JUBU	4	JUNIPERUS CHINENSIS 'BUFFALO'	BUFFALO JUNIPER	18"	CONT.
PINI	7	PINUS ABIE NIDIFORMIS	BIRD'S NEST SPRUCE	24	CONT.
VIBU	2	VIBURNUM X 'BURKWOODII'	BURKWOOD VIBURNUM	36"	CONT.
GRASSE	S AND	PERENNIALS			
CAKF	8	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER REED GRASS	NO. 2	CONT.
ECPW	33	ECHINACEA PURPUREA 'POWWOW WILDBERRY'	POWWOW WILDBERY CONEFLOWER	NO. 2	CONT.
GEBV	13	GERANIUM MACRORHHIZUM 'BEVAN'S VARIETY'	BEVAN'S VARIETY CRANESBILL	NO. 2	CONT.
MIPU	9	MISCANTHUS SINENSIS 'PURPURESCENS'	FLAME GRASS	NO. 2	CONT.
NEWL	8	NEPETA FAASSENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	NO. 2	CONT.
PAVI	4	PANICUM VIRGATUM	SWITCH GRASS	NO. 2	CONT.
PEHA	40	PENNISETUM ALOPECUROIDES 'HAMELN'	HAMELN DWARF FOUNTAIN GRASS	NO. 2	CONT.
PEHR	3	PENSTEMON DIGITALIS 'HUSKER RED'	HUSKER RED BEARDS TONGUE	NO. 2	CONT.
RUGO	28	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM BLACKEYED SUSAN	NO. 2	CONT.
SPSI	21	SPODIOPOGON SIBIRICUS	FROST GRASS	NO. 2	CONT.

Peggy A. Brown landscape architect

3293 Clarendon Road Cleveland Heights, Ohio 44118 216.932.1231 peggy@pablandarchitect.com

Westpark

Warren Road

Westpark, OH

PLANTING PLAN

TREE

Development

#### NOTES

Scope of work

1. Includes but Is not Ilmited to removal of weeds, removal of construction debris, installation of topsoli/plant bed mixture, installation of plants, mulching, irrigation system installation (as owner directed), spreading topsoll and grading lawn. Establishment of lawn, clean-up, and guarantee, and regular maintenance during construction and the establishment period.

- 2. Base Information by The Maverick Building Company, 34970 Detroit Road, Ste 210A, Avon, Ohio 44011, 216-309-2334
- 3. Architecture information by Young Design Studio LLC, 15614 Detroit Avenue, Lakewood, Ohio 44107, 330-620-3536.
- 4. Contractor to verify existing conditions of the field conditions and notify the Owner or Landscape Architect of any discrepancies.
- 5. Contractor to locate all utilities prior to onset of work.

6. All work to be of the highest quality and completed in a proper work-man like manner in accordance with the accepted practices of the American Association of Landscape Contractors.

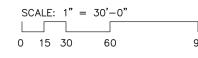
- 7. Plants to be laid out in the plant beds for layout approval by the Landscape Architect prior to installation.
- 8. Do not make substitutions. If specified landscape material is not obtainable, contact Landscape Architect for acceptable alternative.
- 9. All plant material must be from a nursery source with a hardiness zone similar to the project site.
- 10. Size and quantity of plant material listed in the plant list are minimum sizes and quantities.
- 11. The Contractor is responsible to verify all quantities shown on these plans. 12. Lawns shall have a minimum topsoil depth of 4".
- 13. Soil mixture for backfilling of plant beds shall be equal parts of clean topsoil, humus, and cow manure.

14. Plant beds to receive 3" double shredded hardwood bark mulch. Contractor to take care to keep mulch away from crowns and root flares of all plants. Dyed shredded pallets is not an acceptable substitution and will be rejected.

- 15. All areas disturbed by construction and not designated as plant bed shall be seeded as lawn.
- 16. Contractor to ensure that root flare is visible above the top of the root ball. In the event that it is not, the root ball shall be shaved down to expose the root flare.
- 17. The top 8" of soil shall be free of rocks, concrete and foreign material larger than 2" in diameter. Road base material shall not be present in the top 24" of soil. Any soil mixed with road base shall be removed and disposed of off-site.
- 18. Final grades shall be smooth and even. Concentrated flows of water shall not drain over a sidewalk. Landscape materials shall not block or interfere with the free flow of drainage water. Notify Landscape Architect if this appears to be unavoidable. All grades shall slope at a minimum 2% grade away from building foundations and footing unless otherwise noted. No standing water will be permitted.
- 19. The burden of proof of soil amendment Installation rests with the Contractor. Soil test may be required at the Contractor's expense in order to confirm amendment installation.
- 20. Do not prune trees or other plant material unless directed by the Landscape Architect. Trees or shrubs that have been recently pruned or cut will not be accepted
- 21. Trees shall not be planted within 4' of buried utility lines. Relocate trees slightly. If not possible, notify Landscape Architect.
- 22. Install 6 21 gram plant tablets at each tree and 2 21 gram plant tablets at each shrub. Use agriform or best-tabs tablets.
- 23. Plant pits for trees shall be 3 times the width of the root ball. Bottom of tree pit to be unexcavated to form a pedestal for the tree to rest upon.
- 24. Apply a pre-emergent herbloide formulated for 6 month weed control to all shrub/groundcover areas prior to installation of mulch to the soil surface.
- 25. All trees without exposed root flares prior to and/or after installation will be rejected.

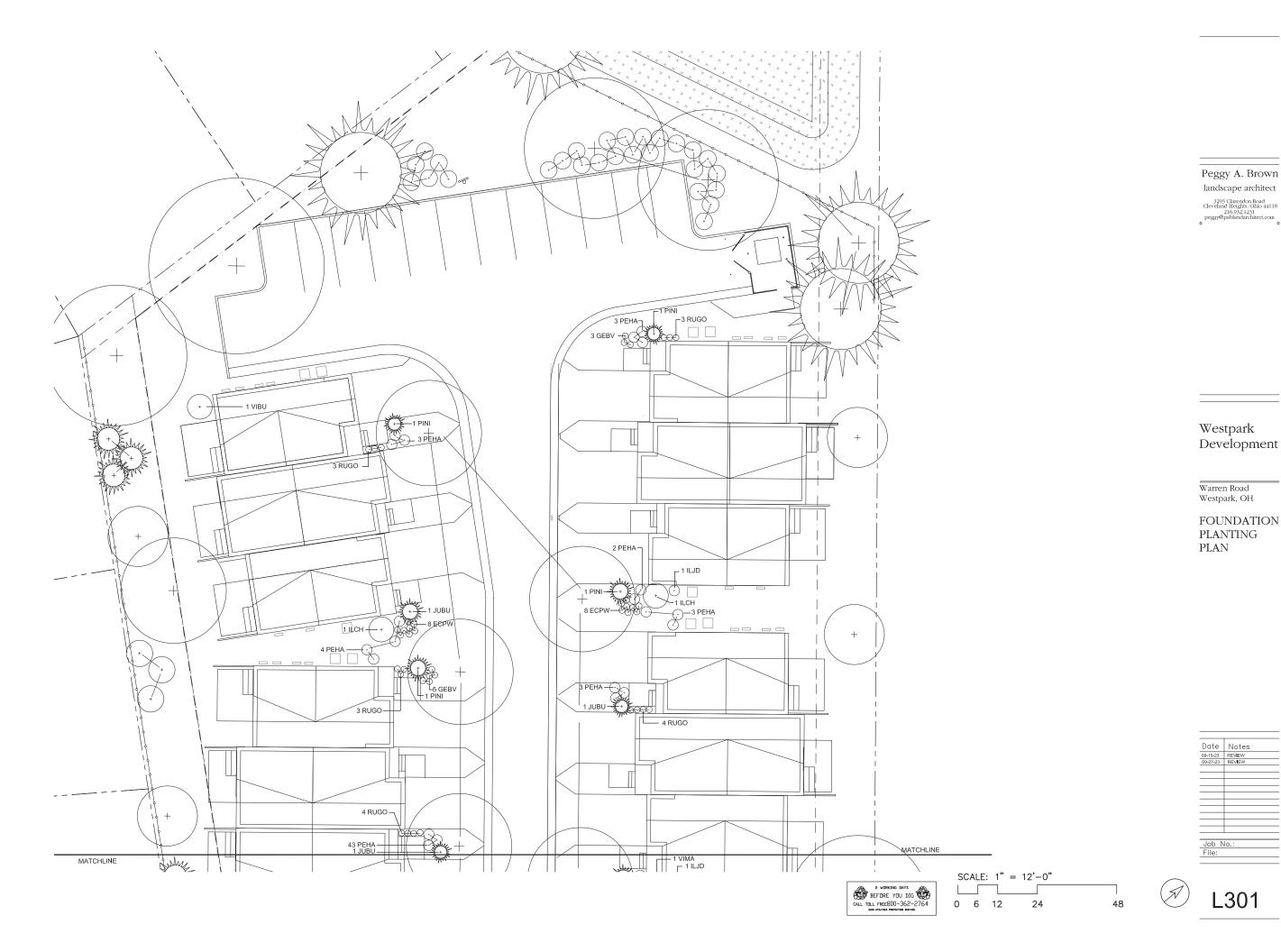
NOTE: SEE SHEET LP302 FOR PLANTING DETAILS







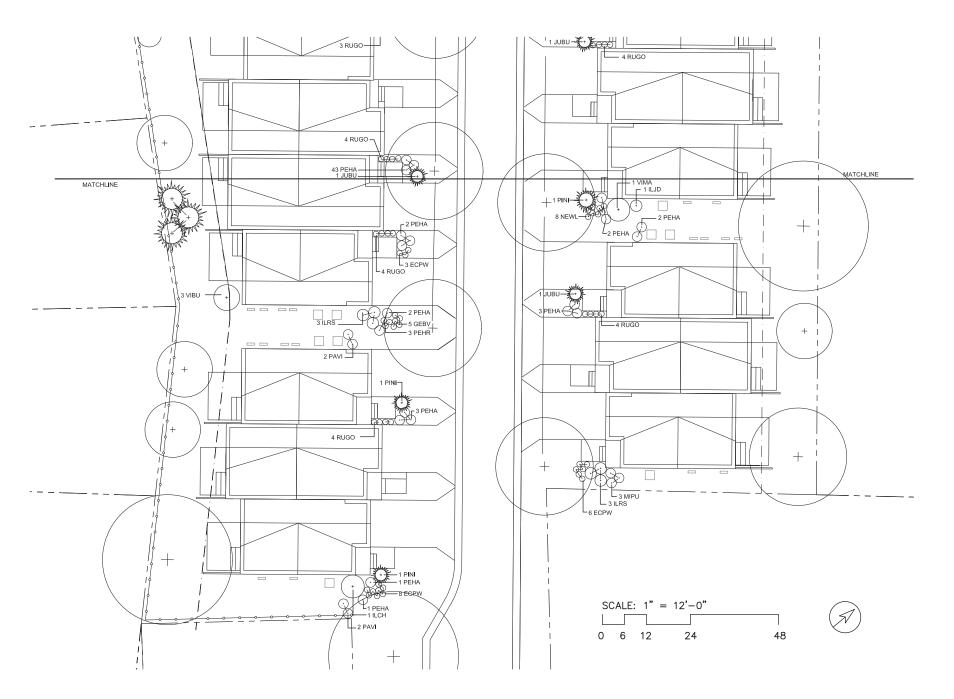


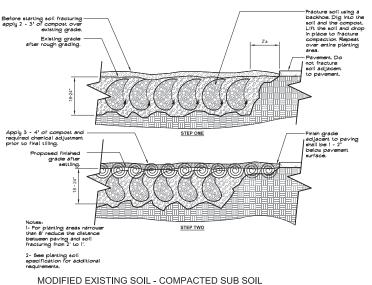


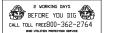
Peggy A. Brown landscape architect 3293 Clarendon Road Cleveland Heights, Ohio 44118 216.932.1231 peggy@pablandarchitect.com

Date Notes

L301







EVERGREEN PLANTING

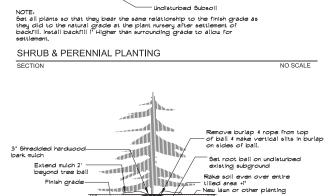
Peggy A. Brown landscape architect

3293 Clarendon Road Cleveland Heights, Ohio 44118 216.932.1231 peggy@pablandarchitect.com

Westpark Development

Warren Road Westpark, OH

FOUNDATION PLANTING PLAN



Remove burlap 4 rope from top of ball 4 make vertical slits in burlap on sides of ball.

Set root ball on undisturbed existing subground

Rake soil even over entire tilled area +1'

New lawn or other planting

Remove Burlap from Top 1/3 of Burlap Ball Prior to Planting

Planting Mixture For Spacing See Plan

— Scarify to 3' Depth

3" Shredded hardwood-bark mulch

Extend mulch 12"

Finish grade

\_ 3 Times root ball diameter \_

TREE PLANTING

Thoroughly till area equal to 3 times clameter of tree ball and to the depth of the tree ball. Prior to tilling remove any existing lawn or other vegetation 4 uniformly spread a 2 "layer of uell decomposed leaf mulch or other approved compost matter over entire area 4 till into entire area. Backfill around tree with tilled soil and water in backfill in layers to settle backfill.

Set all plants so that they bear the same relation to the finish grade as they did to the natural grade at the plant nurseny after settlement of backfill, install backfill! higher than surrounding grade to allow for settlement. Root flare shall be above grade regardless of condition coming out of nursery.

Thoroughly till area equal to 3 times claimeter of tree ball and to the depth of the tree ball. Prior to tilling remove any existing law or other vegetation 4 uniformly spread a 2" layer of uell decomposed leaf mulch or other approved compost matter over entire area. Backfill around tree with tilled soil and 'water in' backfill in layers to settle backfill.

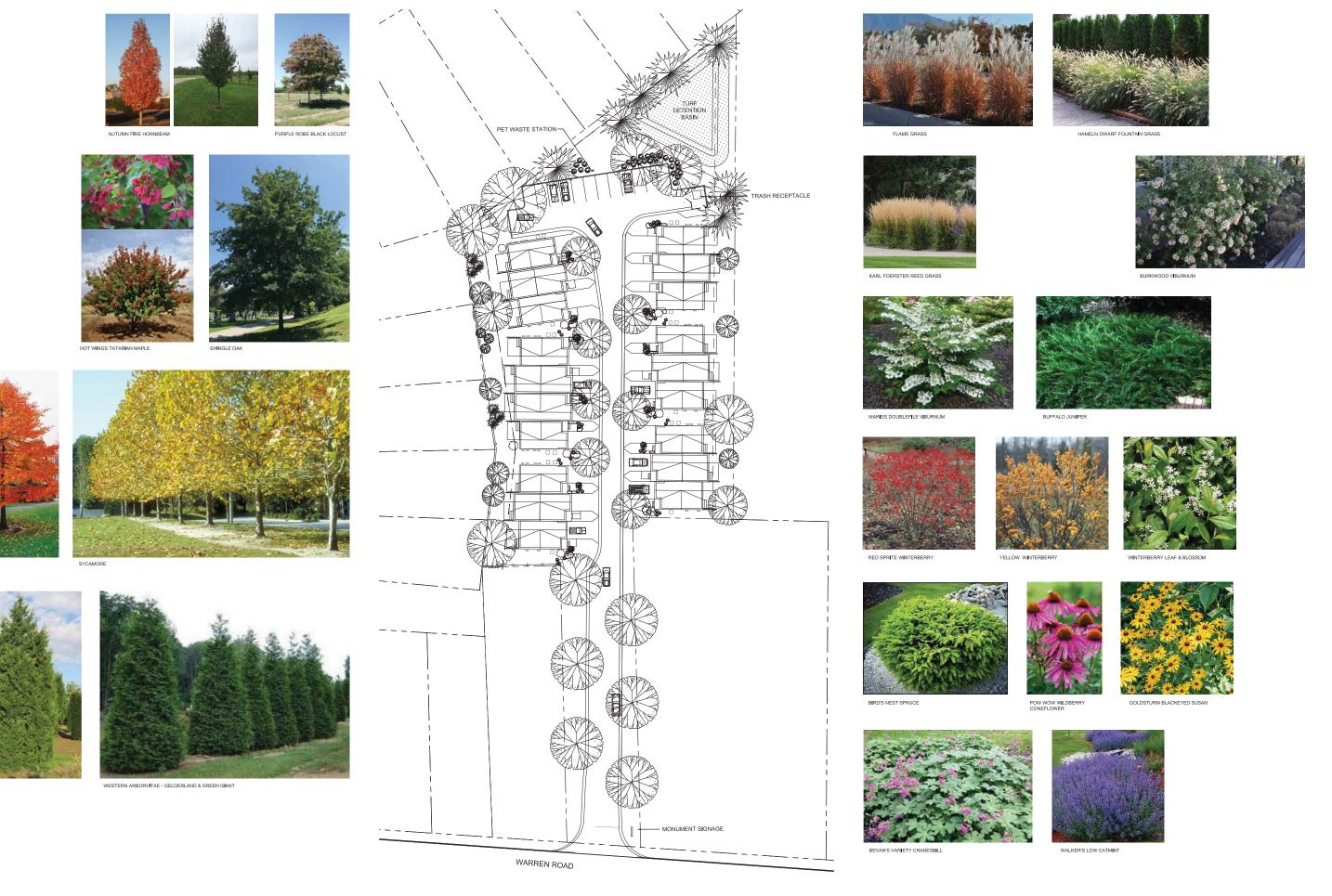
NOTE Root flare to be exposed. If not present coming out of the nursery, shave the top of the root ball to expose the root flare.

Set all plants so that they bear the same relation to the finish grade as they did to the natural grade at the plant nursery after settlement of backfill. Install backfill I' higher than surrounding grade to allow for settlement. Root flare shall be above grade regardless of condition coming out of nursery.

Date Notes Job No.:

L302

NO SCALE



KETELEERI JUNIPER

## **Cleveland City Planning Commission**

## **Staff Report**



October 20, 2023



#### **Committee Recommendation:**

**Approved with Conditions:** (with 1 Abstention)

 Tree Preservation Plan needed for Final Approval; clarify landscaping in front of units and detail site plan; reevaluate the impact and effectiveness of sidewalk near the street and balance that with appropriate needs for landscaping and tree pits. Consider different sidewalk color to differentiate material. Site lighting and photometric plan needed for Final Approval.

SPA: Kamm's Corners

#### **Downtown | Flats Design Review Case**

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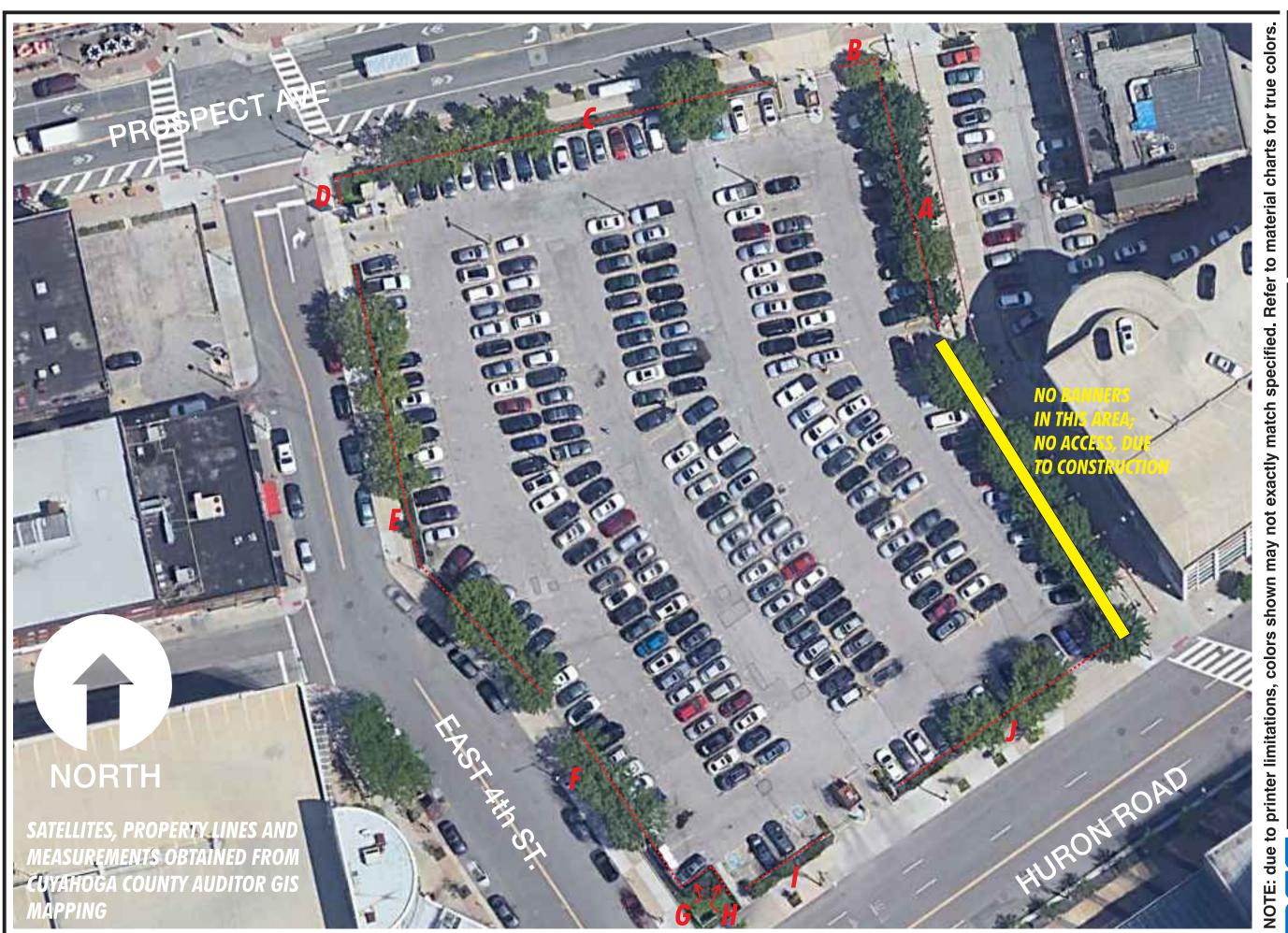
October 20, 2023

**DF2023-053 – Cavs Fence Banner Installation:** Seeking Final Approval

**Project Location: East 4th and Huron Road** 

Project Representative: Laura Higgins-Woyma, Brilliant Electric Sign

SPA: Downtown

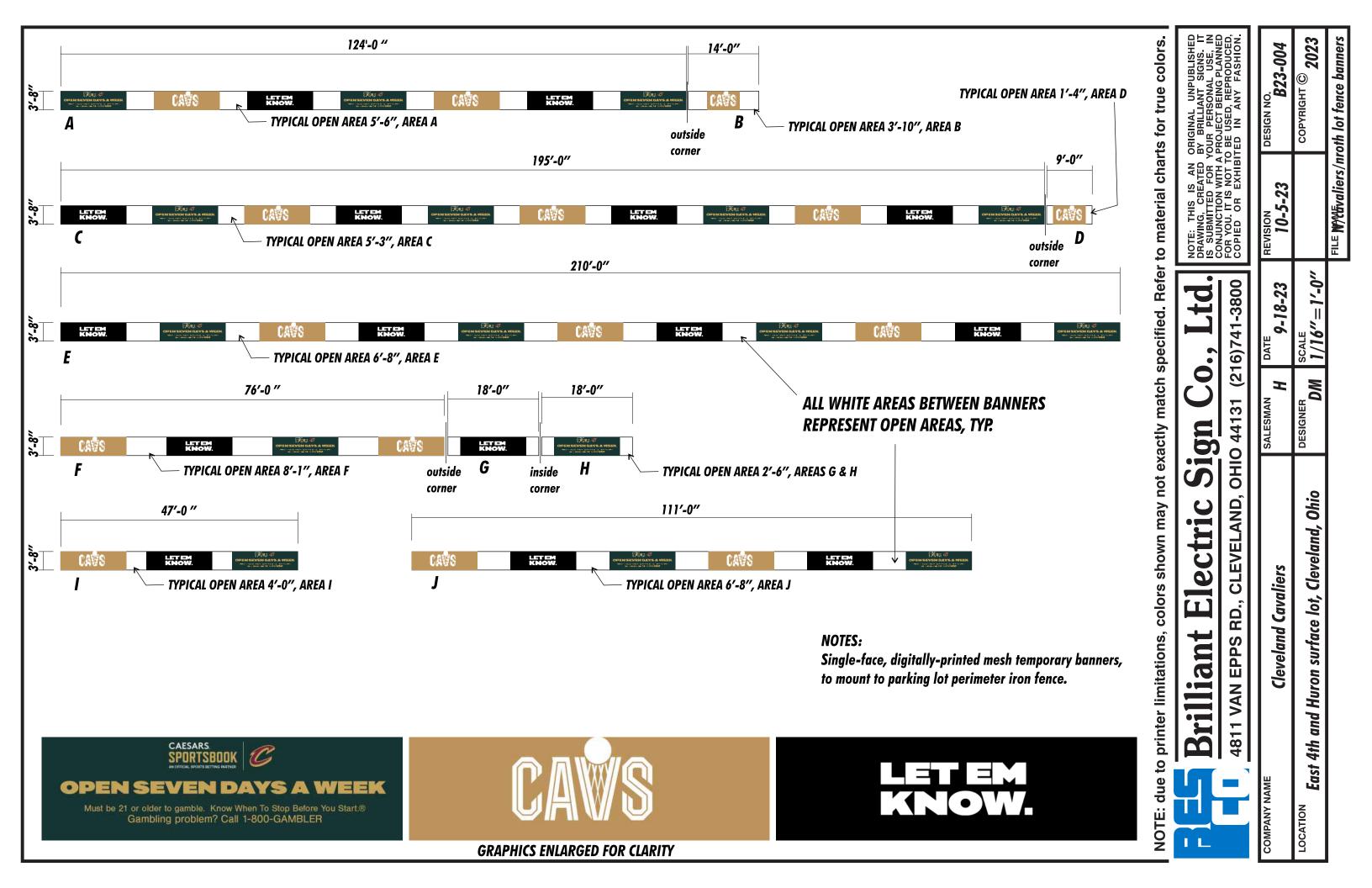


# **.**0., Sign **Brilliant Electric**

4811 VAN EPPS RD., CLEVELAND, OHIO 44131 (216)741-3800

			,		
MPANY NAME	Cleveland Cavaliers	SALESMAN <b>H</b>	рате <b>9-18-23</b>	REVISION	DESIGN NO. <b>B23-004</b>
CATION East 4th	East 4th and Huron surface lot, Cleveland, Ohio	DESIGNER <b>D/M</b>	SCALE NTS		соруяіснт © 2023

FILE IV/Vavaliers/nroth lot fence banners





Spectrum

**BANNER F** 



due to printer limitations, colors shown may not exactly match specified. Refer to material charts for true colors. Sign lectric E Brilliant

NOTE

FILE NY Mindlers / nroth lot fence hanners				
сорувіснт © 2023	DM 1/16"=1'-0"	DESIGNER  DM	East 4th and Huron surface lot, Cleveland, Ohio	LOCATION <b>East</b>
REVISION DESIGN NO. B23-004	DATE 9-18-23	SALESMAN <b>H</b>	Cleveland Cavaliers	COMPANY NAME
AND, OHIO 44131 (216)741-3800 COPIED OR EXHIBITED IN ANY FASHION.	(e)741-3800   E	0 44131 (2	4811 VAN EPPS RD., CLEVELAND, OHI	

## **Cleveland City Planning Commission**

## **Staff Report**



#### **Downtown | Flats Design Review Case**



October 20, 2023

#### **Committee Recommendation:** Approved with **Conditions:**

Motion to approve with condition that the sportbook sign is removed and the width of the sign is reduced what is needed to accommodate the words "Cavs" and "Let Em Know"

SPA: Downtown

#### **Downtown | Flats Design Review Case**

WING COMPOSITION OF THE PROPERTY OF THE PROPER

October 20, 2023

**DF2023-055 – Guardians Sign Package**: Seeking Final Approval

SPA: Downtown

**Project Location: 2401 Ontario** 

Project Representative: Neil Weiss, Cleveland Guardians

THIS PROJECT HAS BEEN CREATED FOR



## PROGRESSIVE FIELD

AND SURROUNDING PARKING GARAGE

CLEVELAND, OHIO

**EXTERIOR SIGNAGE** 

OCTOBER 2023





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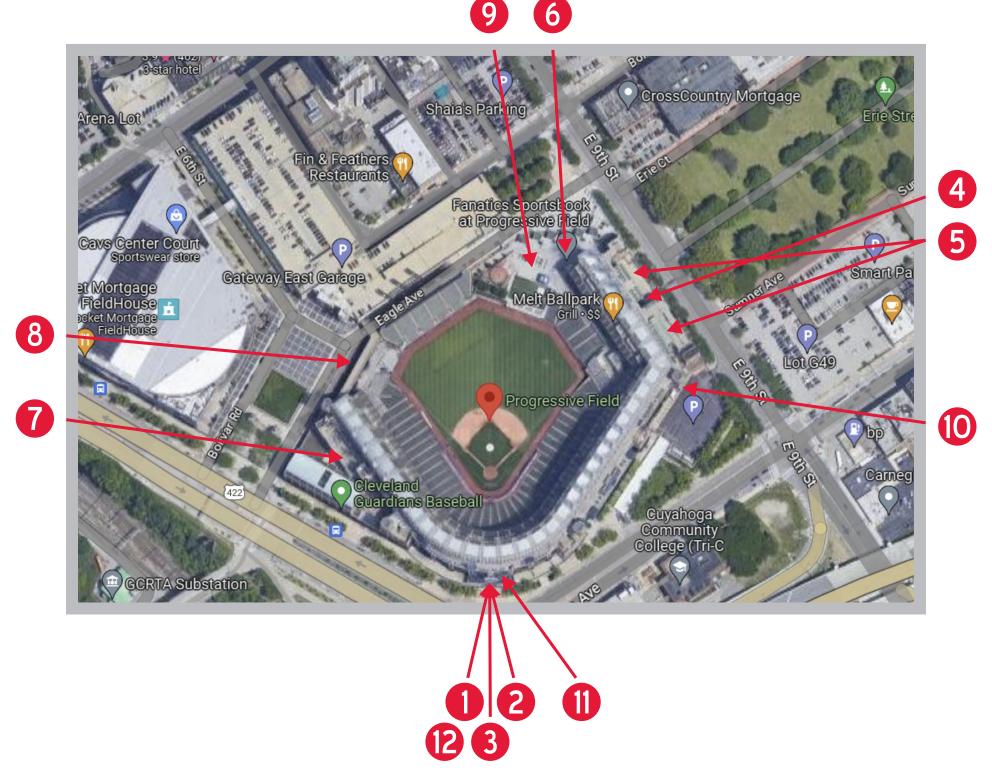
PAGE:_	1 OF 27	DATE:	10/04/2023	
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CLIENT	: Cle	veland G	uardians	
			Cleveland, O	

APPROVED BY:

SIGNATURE

PRINT DATE

### **PROGRESSIVE FIELD SIGNAGE**





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LOGATION: 2401 Ontario St. Cleveland. OH

SALES: Rob Hall

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**CARNEGIE & ONTARIO** RENDERING





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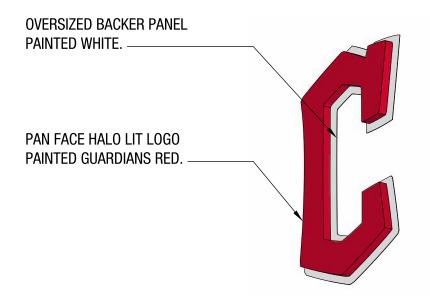
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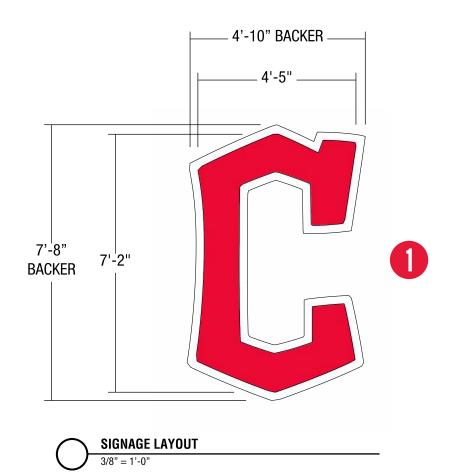
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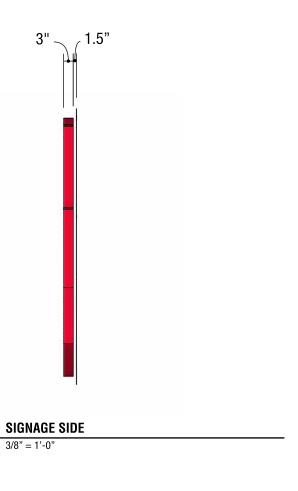
#### **CARNEGIE & ONTARIO DIAMOND "C" LOGO DETAILS**

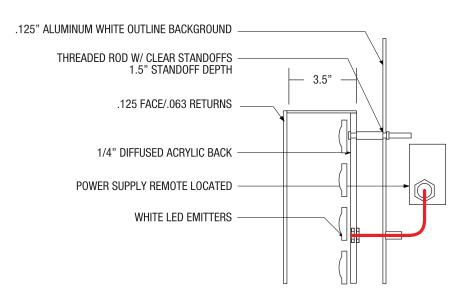
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HALO ILLUMINATING SIGNAGE DETAIL

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GLIENT: Cleveland Guardians

LOCATION: 2401 Ontario St. Cleveland. OH

SALES: Rob Hall

PHONE: 419:244.4444 • FAX:

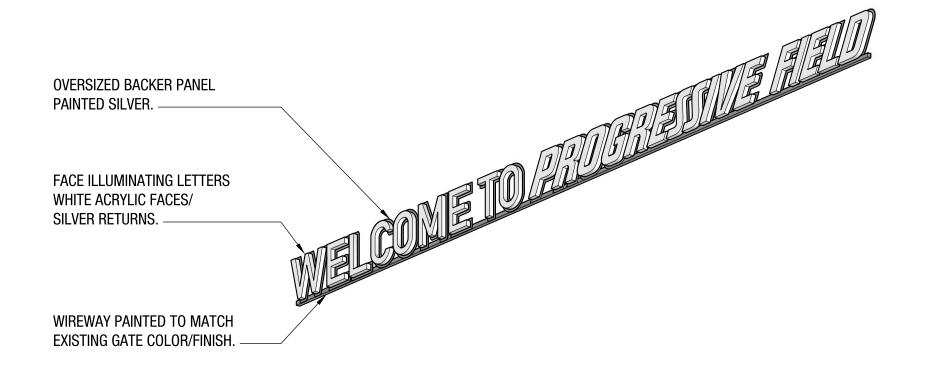
APPROVED BY:

SIGNATURE

PRINT DATE

#### CARNEGIE & ONTARIO "WELCOME TO PROGRESSIVE FIELD" LETTER SET DETAILS





71'-4" BACKER

70'-10" LETTERS

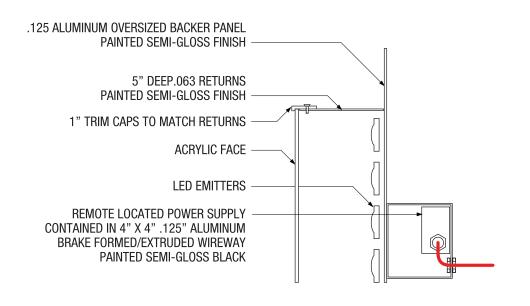
3'-11" 3'-6"

WELCOME TO PROBACKER

2

SIGNAGE LAYOUT

1/8" = 1'-0"



FACE ILLUMINATING SIGNAGE DETAIL

NTS





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ID#: Cleveland Guardians Signage

GLIENT: Cleveland Guardians

2401 Optagio St. Cleveland, OH

CLIENT: Cleveland Guardians

LOCATION: 2401 Ontario St, Cleveland, OH

SALES: Rob Hall

APPROVED BY:

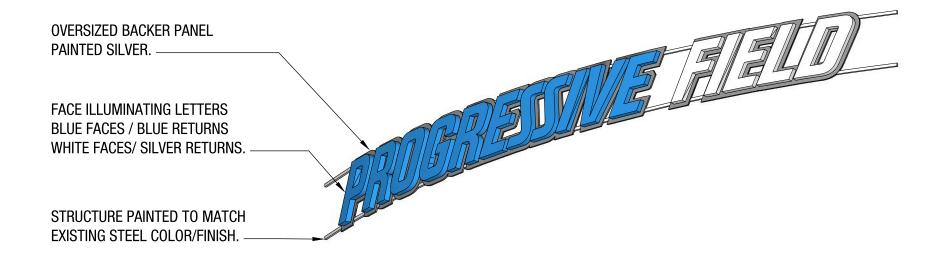
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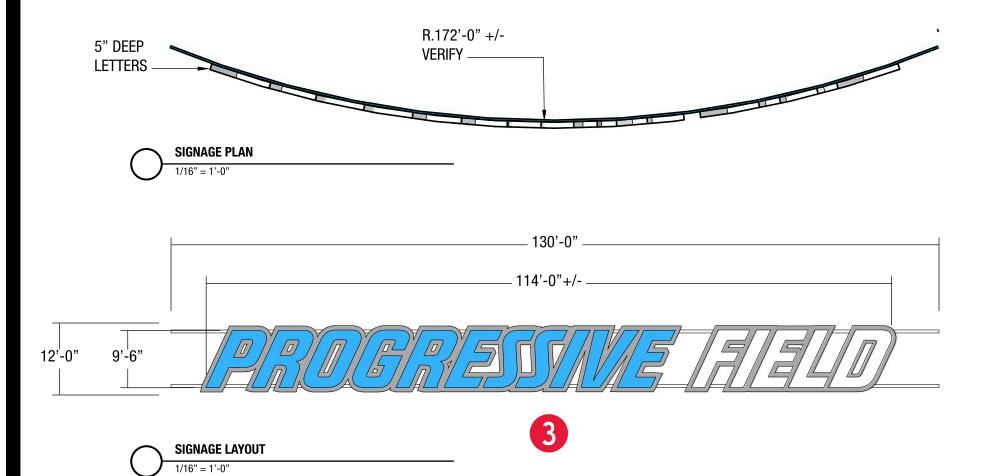
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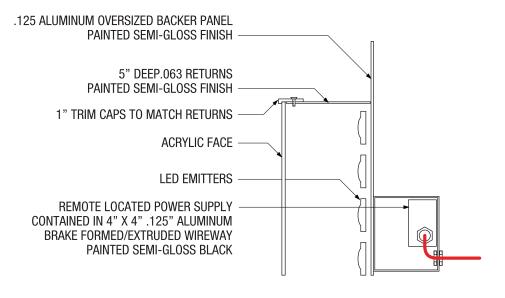
#### **CARNEGIE & ONTARIO "PROGRESSIVE FIELD" LETTER SET DETAILS**

















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CLIENT: Cleveland Guardians

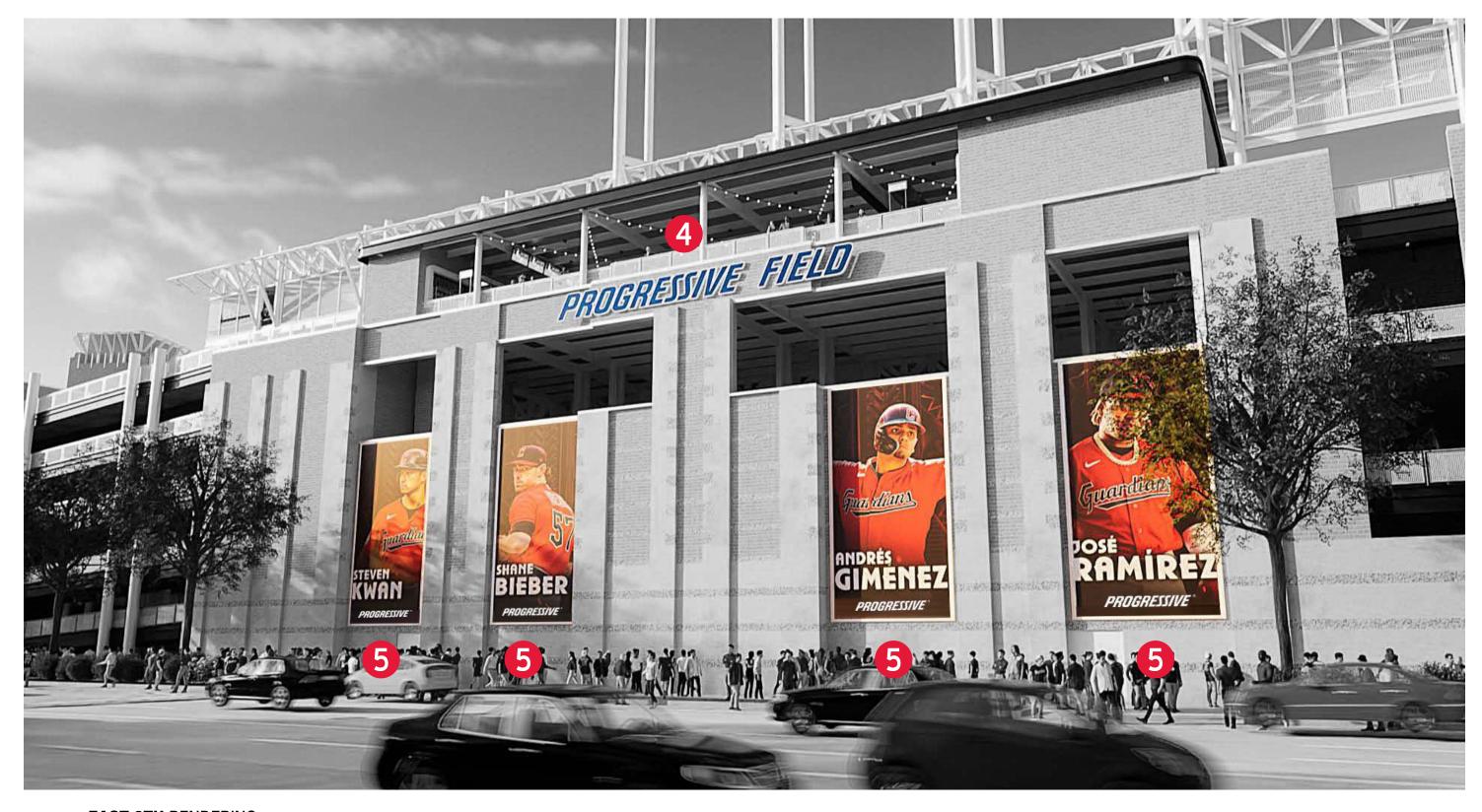
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LOCATION: 2401 Ontario St. Cleveland. OF

SALES: Rob Hall

SIGNATURE

PRINT DATE



**EAST 9TH RENDERING** 





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Rob Hall

APPROVED BY:

SIGNATURE

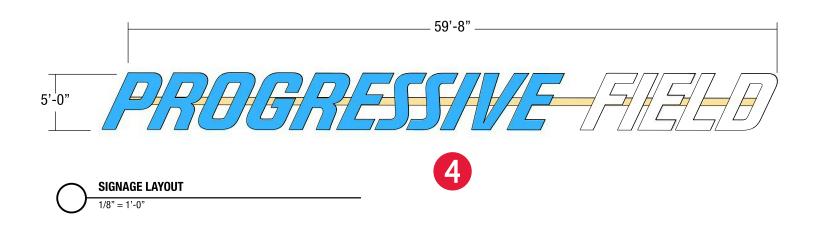
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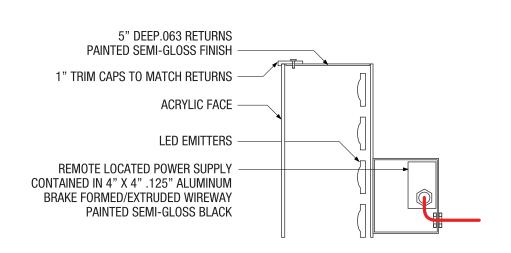
#### **EAST 9TH "PROGRESSIVE FIELD" LETTER SET DETAILS**

















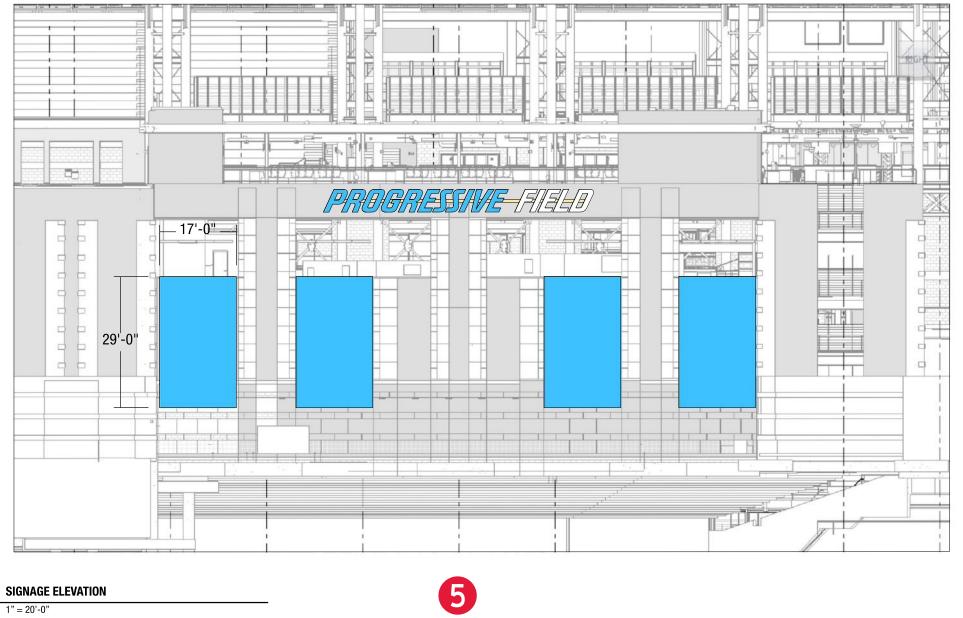
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CLIENT: Cleveland Guardians					SIGNATURE	_
LOCATION: 2401 Ontario St. Cleveland, OH						
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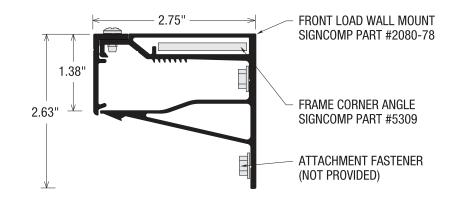
SIGNATURE
PRINT DATE

#### **EAST 9TH BANNER DETAILS**

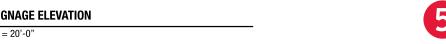


## **BANNERS**

29'-0" x 17'-0"



**NON-ILLUMINATING SIGNAGE DETAIL** 

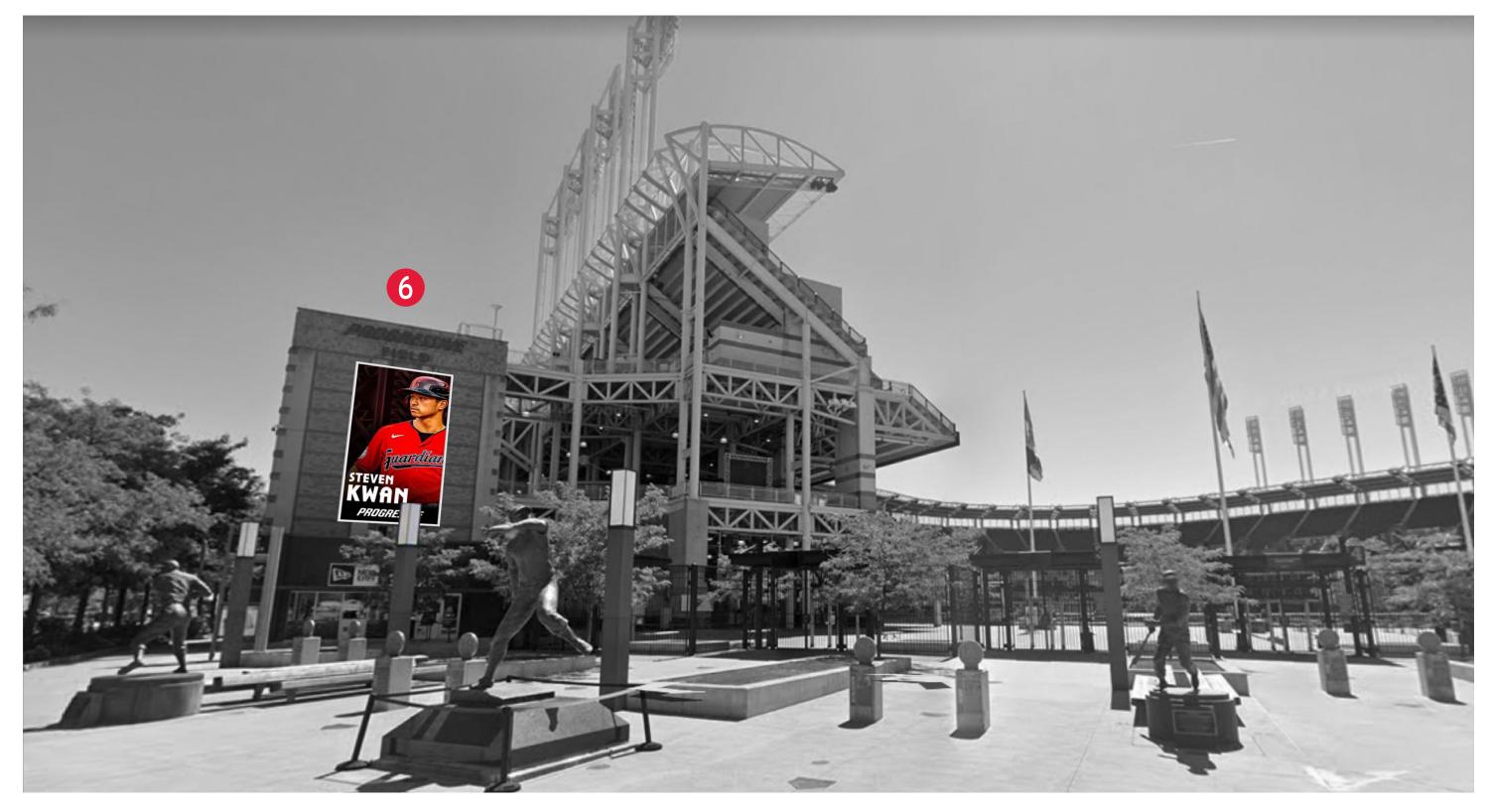






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PAGE: 9 0F 27 DATE: 10/04/2023 APPROVED BY: Cleveland Guardians Signage **Cleveland Guardians** LOCATION: 2401 Ontario St. Cleveland, OF Rob Hall SALES:



**EAST 9TH NEAR SPORTSBOOK** 29'-0" X 17'-0"





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LES		Rob Hal			PRINT	



**ONTARIO ELEVATOR TOWER** 29'-0" X 17'-0"





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CLIENT	: Cle	veland G	uardians	SIGNAT
DCATION: 2401 Ontario St. Cleveland, OH				
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PRINT DATE



PROPOSED UPPER DECK LIGHTING SYSTEM





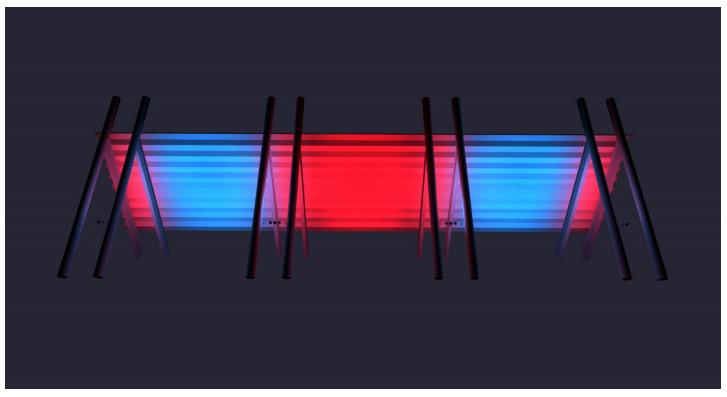
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ID#:	Cleveland	Guardian	s Signage	
CLIENT	: Cle	veland G	uardians	SIC
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ROVED BY:





**LIGHT COVERAGE STUDY** 





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Rob Hall

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SIGNATURE		
PRINT	DATE	

#### **CARNEGIE & ONTARIO "PROGRESSIVE FIELD" LETTER SET DETAILS**



**MARQUE DISPLAY** 38' X 120'





TOLEDO SIGN....

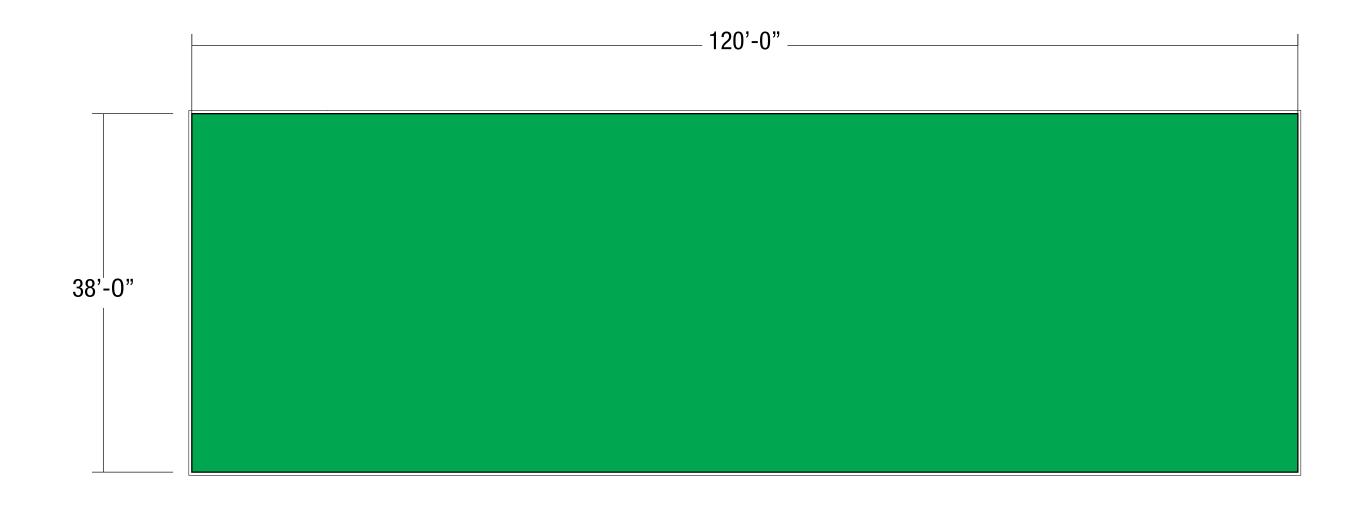
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GLIENT: Cleveland Guardians			

LOCATION: 2401 Ontario St. Cleveland, Of

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<b>LED DISPLAY</b> 38' X 120'
NTS





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**CONCEPTUAL ENTRANCE SIGNAGE** LEFT FIELD DISTRICT



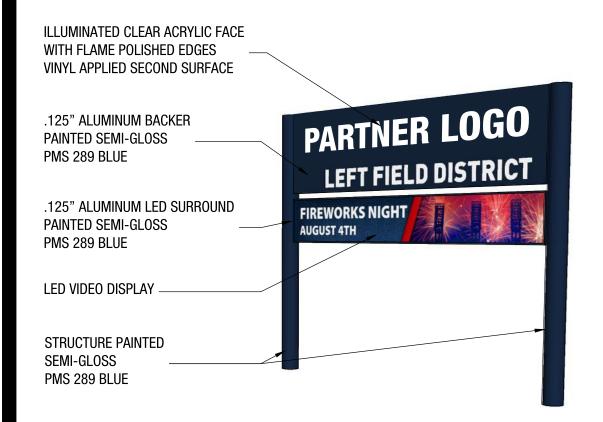


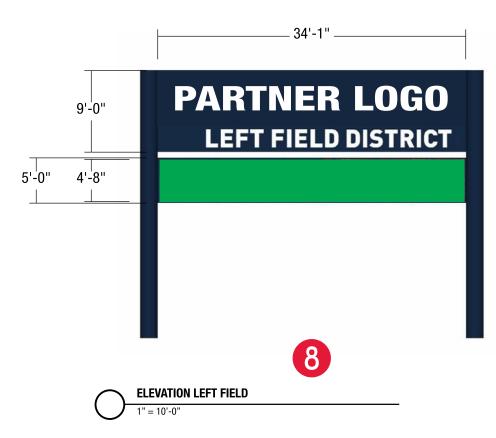
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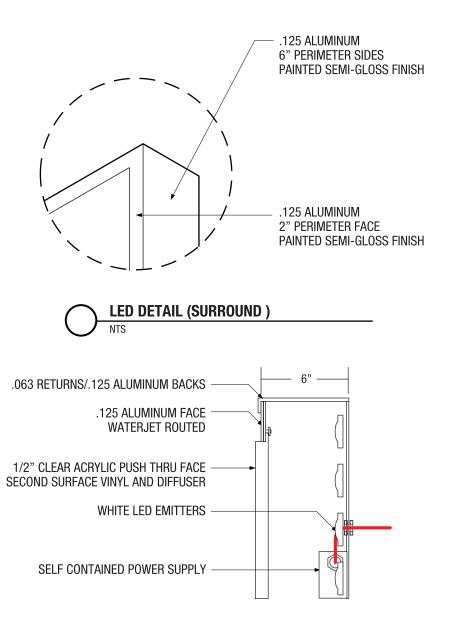
SE: 16 OF 27 DATE: 10/04/2023	APPROVED BY:
Cleveland Guardians Signage	
ENT: Cleveland Guardians	SIGNATURE
SATION: 2401 Ontario St. Cleveland, OH	
Data Hall	PRINT DATE

#### **CONCEPTUAL ENTRANCE SIGNAGE** LEFT FIELD DISTRICT DETAILS















TOLEDO SIGN....

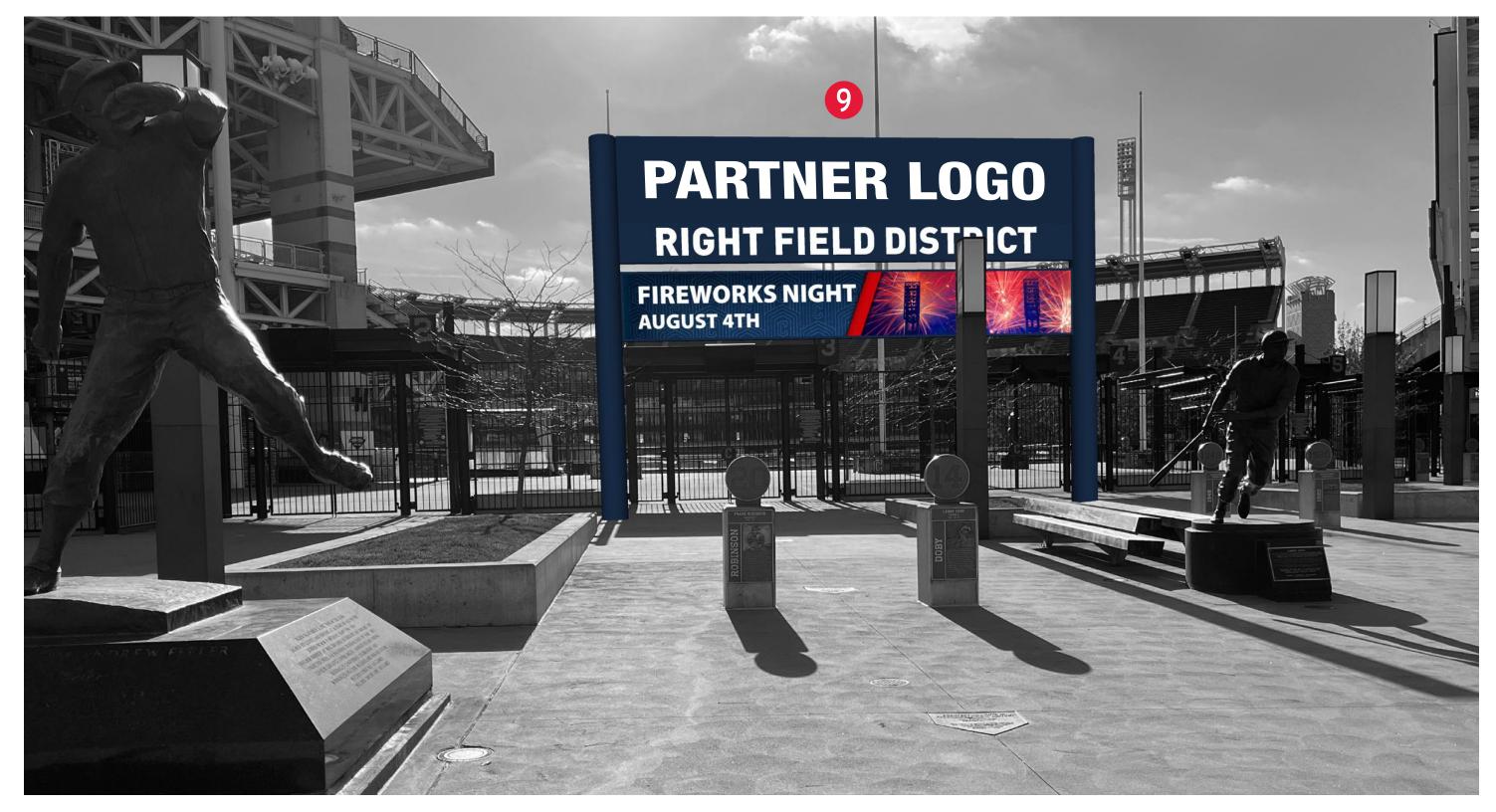
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CLIENT	Cleveland Guardians
	DN: 2401 Ontario St, Cleveland, OH
SALES:	Rob Hall

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**CONCEPTUAL ENTRANCE SIGNAGE** RIGHT FIELD DISTRICT





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			Cleveland, OH	
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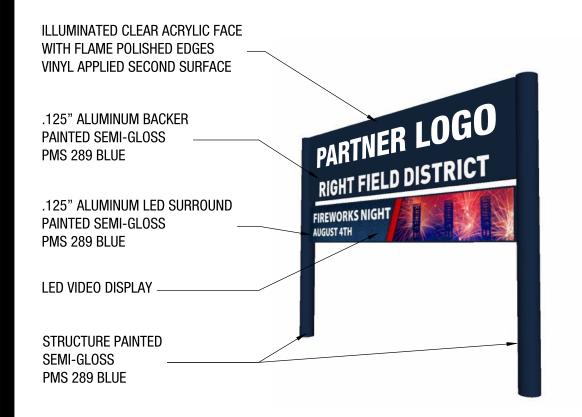
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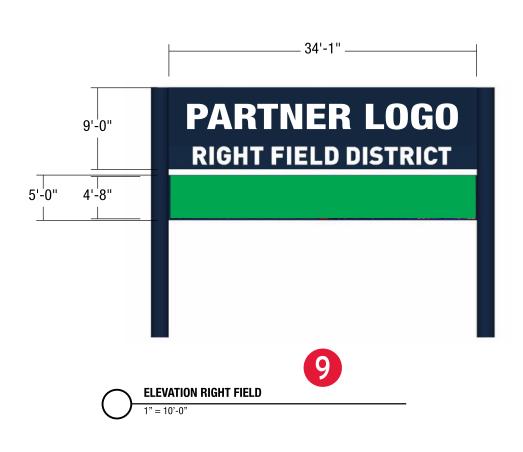
DATE

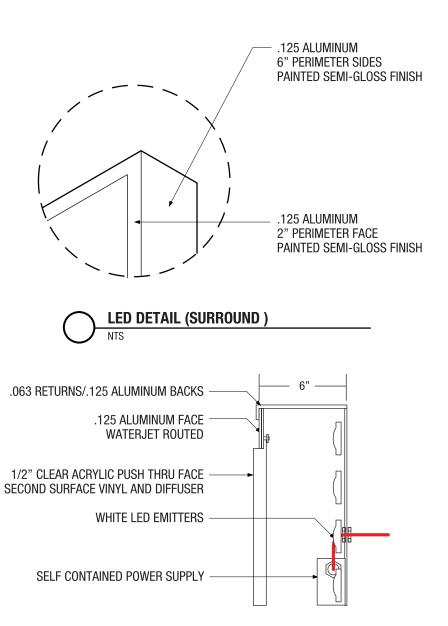
PHONE: 419.244.4444 • FAX: 419.244.6546 • 2021 ADAMS STREET • TOLEDO, OH 436

#### **CONCEPTUAL ENTRANCE SIGNAGE** RIGHT FIELD DISTRICT DETAILS















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ID#: Cleveland Guardians Signage

CLIENT: Cleveland Guardians

LOCATION: 2401 Ontario St. Cleveland. OH

SALES: Rob Hall

APPROVED BY:

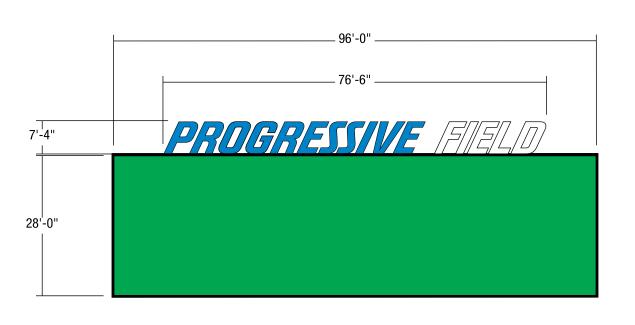
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SIGNAGE ELEVATION

1/32" = 1'-0

HANDL



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SIGNAGE LAYOUT

PAGE: 20 OF 27 DATE: 10/04/2023

ID#: Cleveland Guardians Signage

GLIENT: Cleveland Guardians

LOGATION: 2401 Ontario St. Cleveland. OH

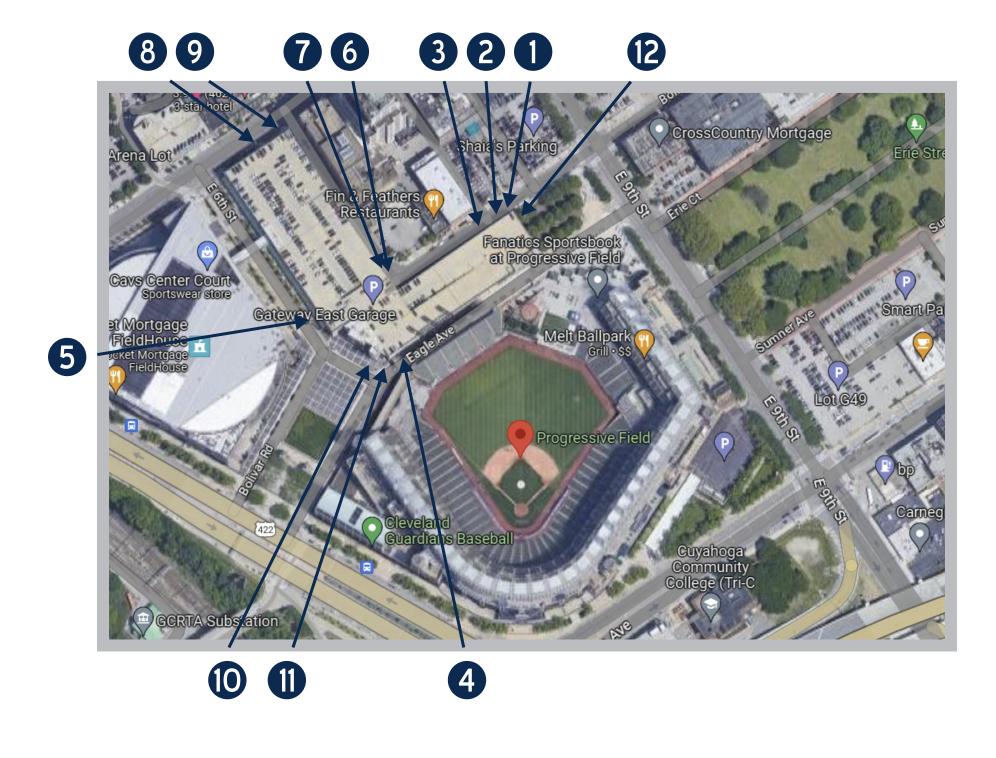
SALES: Rob Hall

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#### **GATEWAY EAST GARAGE SIGNAGE**









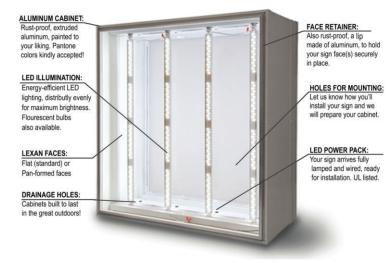
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#### **E. 9TH ST. CABINETS DETAILS**

















**EXISTING CABINETS** 

**SIGNAGE ELEVATION** 





TOLEDO SIGN.COM

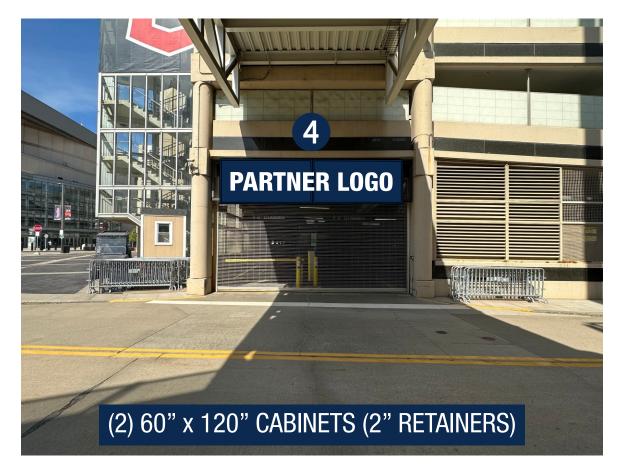
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PAGE: 22 OF 27 DATE: 10/04/2023 Cleveland Guardians Signage **Cleveland Guardians** 

LOCATION: 2401 Ontario St. Cleveland, OF Rob Hall SALES:

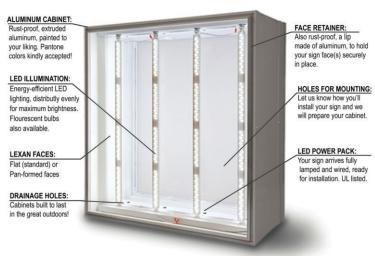
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#### **ONTARIO ST. CABINETS** DETAILS





**SIGNAGE ELEVATION** 



**ILLUMINATING SIGNAGE DETAIL** 





**EXISTING CABINETS** 



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PAGE: 23 OF 27 DATE: 10/04/2023 Cleveland Guardians Signage

Cleveland Guardians

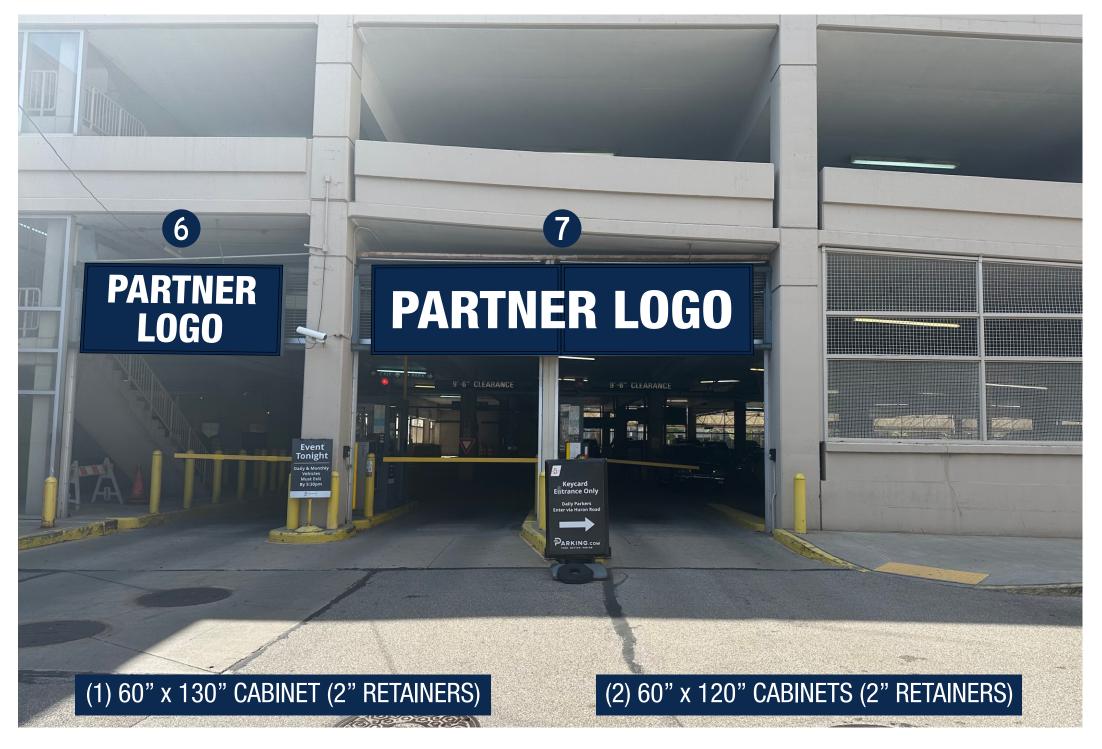
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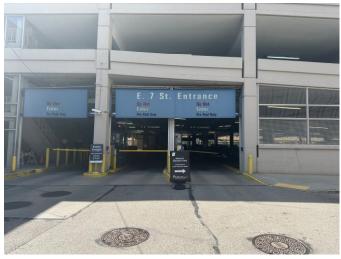
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#### **E. 7TH ST. CABINETS DETAILS**









**SIGNAGE ELEVATION** 





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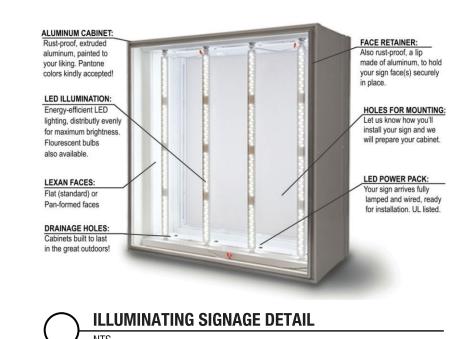
PAGE: 24 OF 27 DATE: 10/04/2023 Cleveland Guardians Signage **Cleveland Guardians** LOCATION: 2401 Ontario St. Cleveland, Oh Rob Hall

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#### **HURON ST. CABINETS** DETAILS







SIGNAGE ELEVATION

**EXISTING CABINETS** 





HANDL

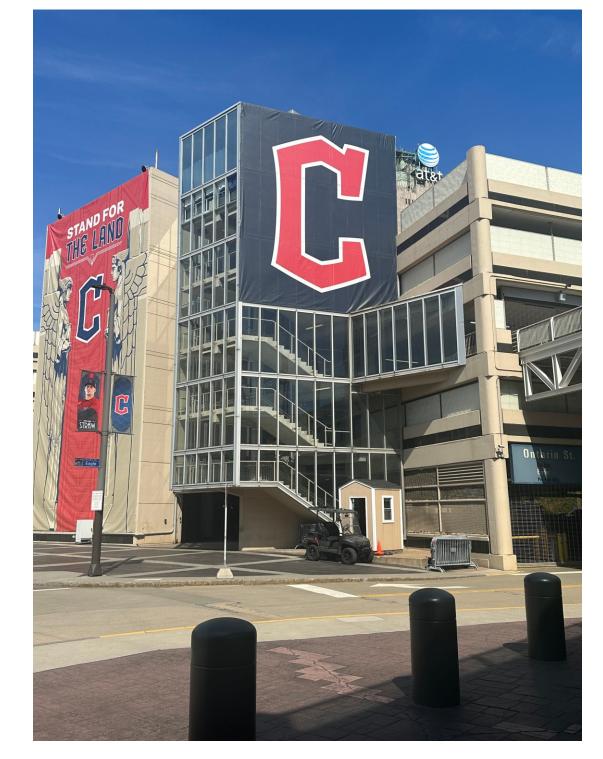


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#### **PLAZA BANNERS** DETAILS





**CONCEPTUAL BANNERS** PLAZA

STAND FOR THE LAND BANNER - 42' W X 73' T
PARTNER LOGO ON SFTL BANNER - 24.33' W X 14' T
DIAMOND C BANNER - 27'-8.5" W X 33' T





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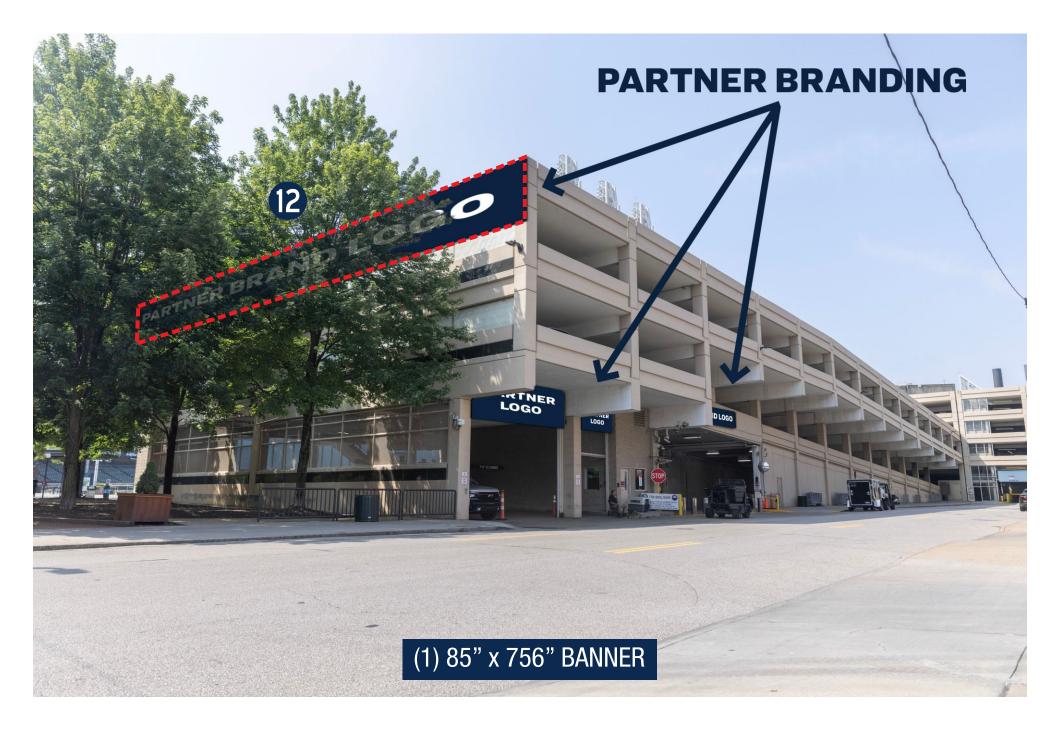
CLIENT: Cleveland Guardians

LOCATION: 2401 Ontario St. Cleveland. OH

SALES: Rob Hall

APPROVED BY:		
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SIGNATURE		
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#### **E. 9TH ST. SIGN** RENDERING







**SIGNAGE ELEVATION** 

3/32" = 1'-0





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GLIENT: Cleveland Guardians

LOCATION: 2401 Ontario St. Cleveland. OH

SALES: Rob Hall

APPROVED BY:

SIGNATURE

PRINT DATE

## **Cleveland City Planning Commission**

# **Staff Report**



#### **Downtown | Flats Design Review Case**

LE VELANDO DE LA CONTRACTOR DE LA CONTRA

October 20, 2023

#### **Committee Recommendation: Approved**

- Important facades (East 9th, Carnegie and Ontario) be addressed holistically as well as other important entry points into the park
- Signage be integrated better into the architecture of the park when appropriate such as gateways and on the important facades.
- Provide details for review. (show different perspectives to see how it's integrated, mounting details, and plan view for the gates).

SPA: Downtown

- Revisit the spacing of the individual letter signs. They are too close to one another.
- Adress each side comprehensively.
- Consider keeping and refurbishing the iconic Progressive Field sign facing Carnegie and Ontario.

#### **Downtown | Flats Design Review Case**

NING CONTROL OF THE PROPERTY O

October 20, 2023

DF2023-058 – Cuyahoga Riverfront Masterplan – Cleveland Clinic Global Peak

**Performance Center:** 

**Seeking Conceptual Approval** 

Project Location: Cuyahoga Riverfront in Downtown Cleveland- W. 3rd and

SPA: Downtown

**Eagle Avenue/Stones Levee** 

Project Representative: Nora Romanoff, Bedrock



Assigned Review Case Number:

Cleveland City Hall 601 Lakeside Avenue, Room 501 Cleveland, Ohio 44114 T: 216/664-2210 F: 216/664-3281 www.planning.clevelandohio.gov

#### **Planning Commission/Design Review Application**

DATE:
PROJECT NAME:
PROJECT ADDRESS:
PROJECT LOCATION (if no address):
CONTACT PERSON (for design review):
COMPANY:
PHONE: EMAIL:
OWNER:
ARCHITECT/ CONTRACTOR:
PROJECT TYPE: New Building Rehabilitation Addition Sign Fence Parking
USE TYPE: Residential Commercial Industrial Institutional Mixed-Use
Review Level: Storefront Conceptual Schematic Design Final Design Development
I, the undersigned, have received a copy of the Cleveland City Planning Commission's "Design Review: A Guide for Applicants" and agree to follow its guidance in proceeding through the design review process for the subject project.
Signature <b>and</b> date
(For staff use only)
Received by:
Design Review District Name:

#### P RO JE CT S UM MA RY

Cuyahoga Riverfront Masterplan: Seeking Conceptual Approval for Parcels 17, 18 + 19. Update on Parcel 20, acquired since May 19, 2023 framework approval. Conceptual proposal for the Cleveland Clinic Global Peak Performance Center

Location: Cuyahoga Riverfront in downtown Cleveland – W. 3<sup>rd</sup> and Eagle Avenue/Stones Levee

Partners: Cleveland Cavaliers, Cleveland Clinic, Bedrock

Development: Proposed first-of-its-kind sports performance and training facility.

Scale: Parcels 17, 18, 19, 20 as a portion of the Bedrock Cuyahoga Riverfront Master Plan (Framework Conceptual Approval 5/19/23)

Key Features: Interdisciplinary training center with medical specialists, open to public, personalized programs for training, treatment, nutrition, and recovery

Purpose + Benefits: Anchor downtown revitalization, boost Cleveland as global medical destination, impact health and wellbeing of region.

This transformative sports medicine and athlete training facility aligns with downtown revitalization efforts. Conceptual proposal demonstrates substantial investment in elevating Cleveland's amenities and regional assets.

The Cleveland Cavaliers and Bedrock, in partnership with the Cleveland Clinic, have embarked on the design and construction of a one-of-a-kind sports performance center to be located along the Cuyahoga River in Cleveland, Ohio. The main purpose of Global Peak Performance Center is to serve as the new home for the Cleveland Cavaliers training programs and the Cleveland Clinic's use as a state-of-the-art medical facility. The significance of the building siting relates to its location along the riverfront, and as an iconic anchor that will seamlessly tie into the Cuyahoga Riverfront Master Plan and Vision for the Valley.

The Cuyahoga Riverfront Master Plan identifies the riverfront land as an asset that can connect communities, create vibrant public spaces, and overall, improve the environment. The Cleveland Clinic Global Peak Performance Center will embrace these principles and serve as a catalyst to foster connectivity and growth.



# BEDROCK

# CUYAHOGA RIVERFRONT MASTER PLAN DEVELOPMENT

DESIGN REVIEW + CITY PLANNING COMMISSION
REQUEST FOR CONCEPTUAL APPROVAL

OCTOBER 2023

## WHY ARE WE HERE TODAY?

#### UPDATE ON THE CUYAHOGA RIVERFRONT MASTER PLAN

- PLAN FRAMEWORK REVIEW (MAY 2023) AND CURRENT EVENTS
- PROGRESS TO DATE ON INFRASTRUCTURE (SEQUENCE 1A)

#### REQUEST CONCEPTUAL APPROVAL FOR DESIGN

PARCELS 17, 18 + 19 - indicated throughout

PARCEL 20, B+O, Breen and Landmark Office Tower - acquired after framework approval

### RIVERFRONT DEVELOPMENT GOALS



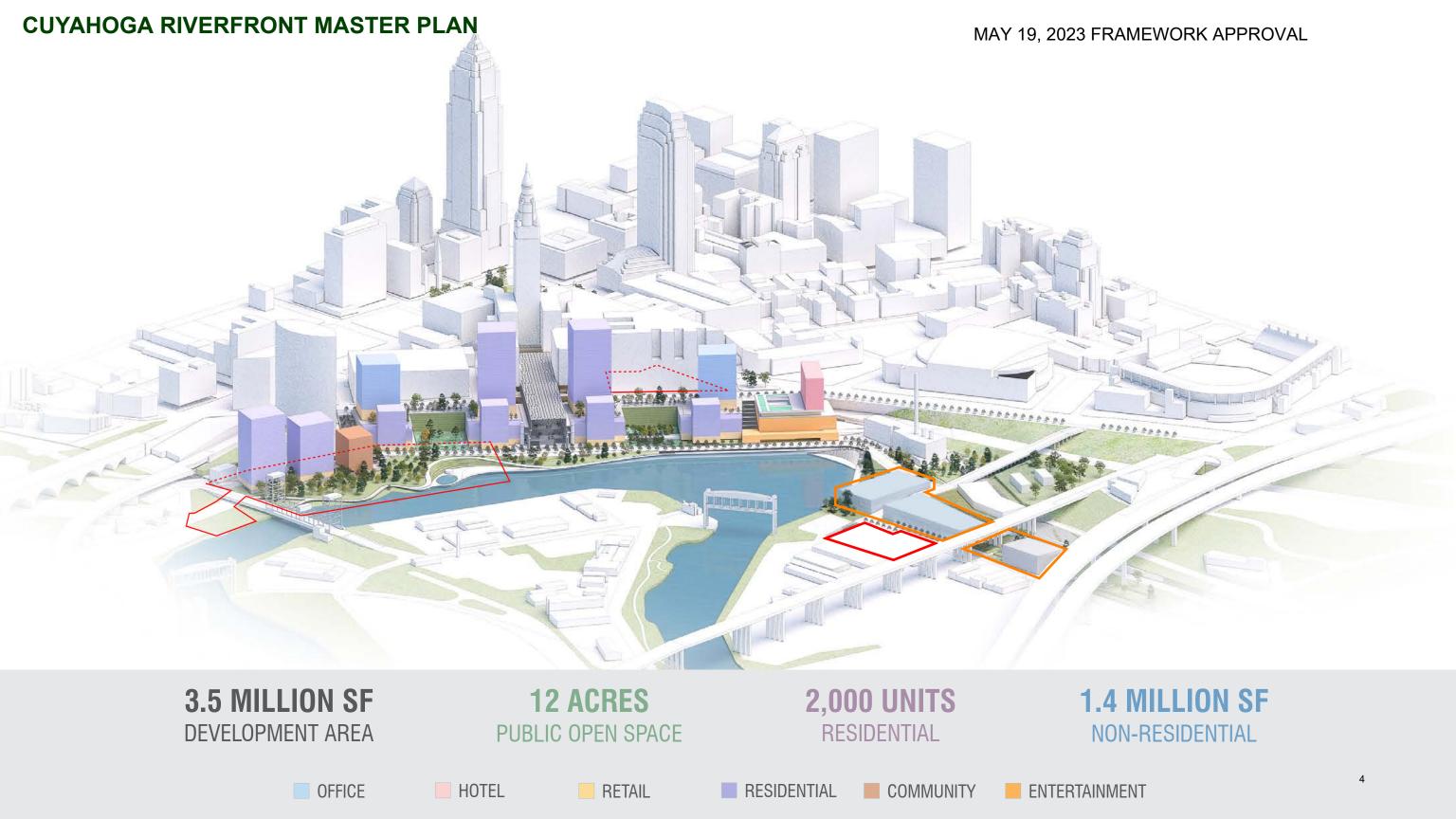
Develop Cleveland riverfront into a 15-minute, 18-hour neighborhood comprised of diverse uses and leverage distinct City assets and provide critical shore to core connections.



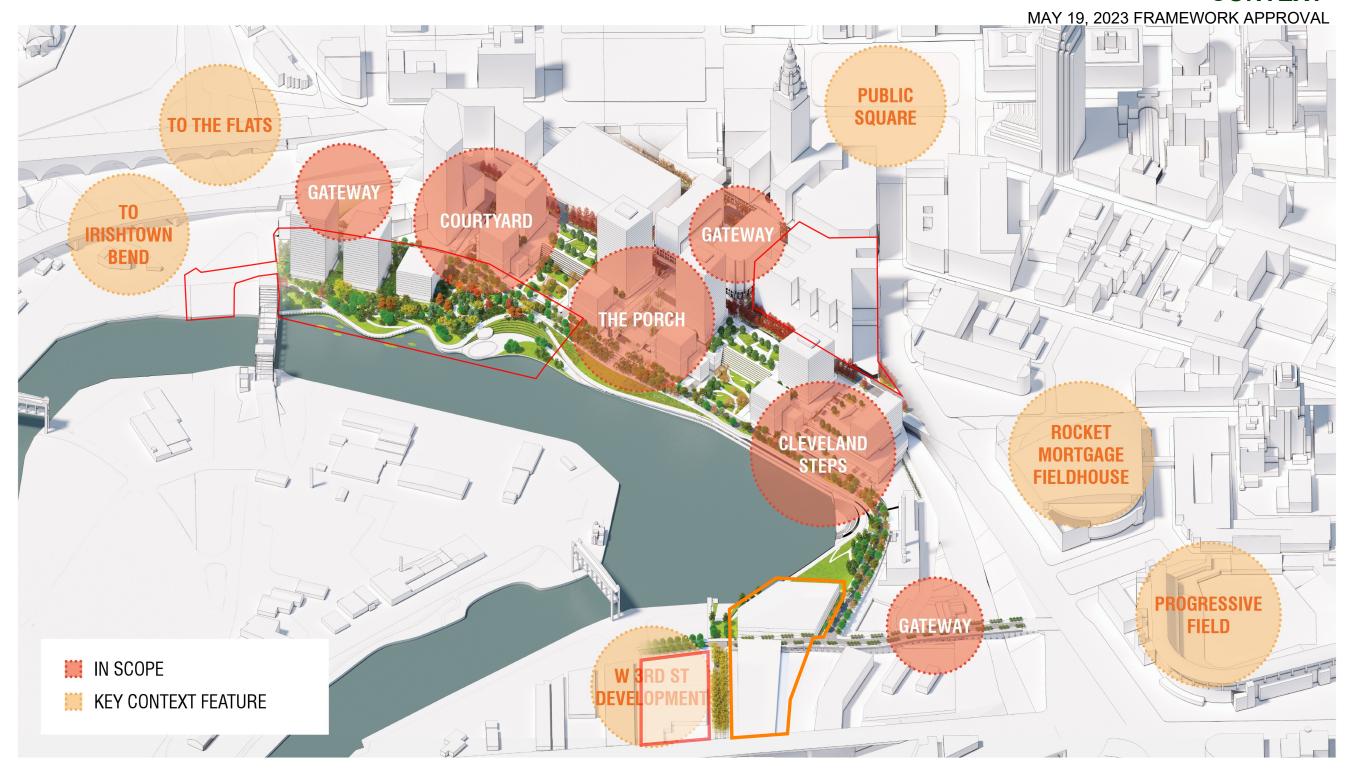
Prioritize post-pandemic investment in sustainable infrastructure and public spaces that serve as drivers for commerce, housing, entertainment and recreation opportunities



Deliver the new multi-purpose urban neighborhood, to attract and develop workforce talent, accelerate business growth, and deliver equitable opportunities



#### CONTEXT



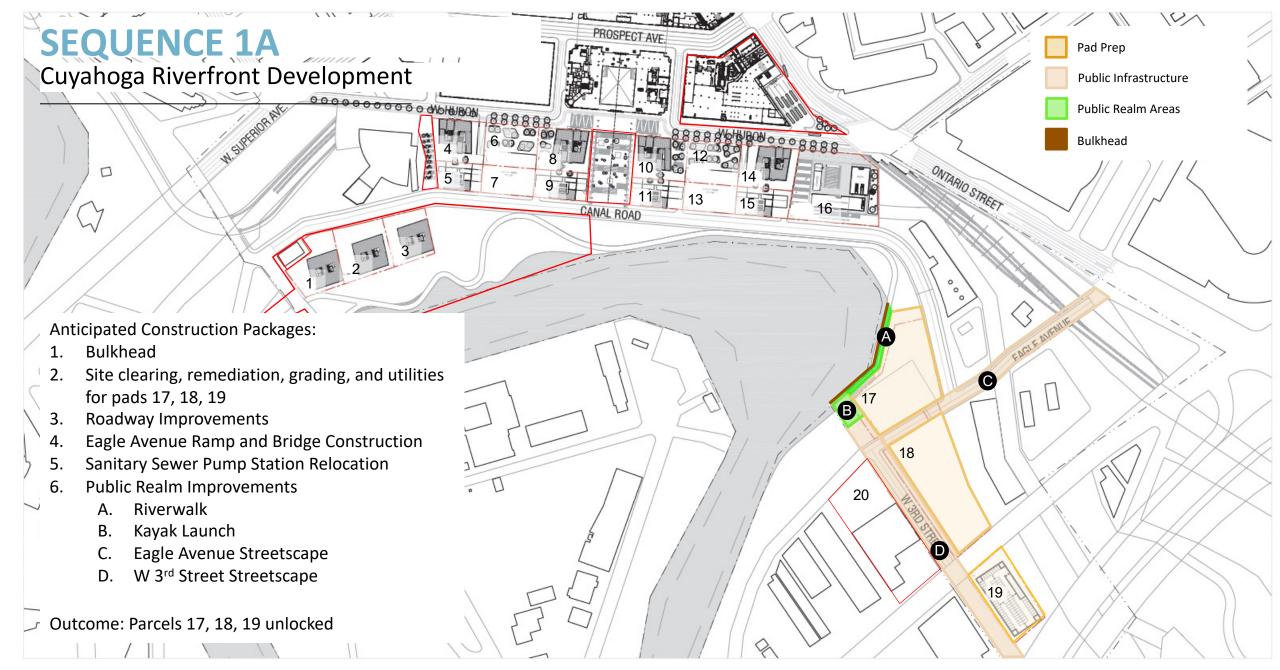


# PROGRESS TO DATE TRANSLATING/SEQUENCING THE MASTERPLAN

# TRANSLATING/SEQUENCING THE MASTER PLAN Cuyahoga Riverfront Development







# WHY ARE WE HERE TODAY?

#### REQUEST CONCEPTUAL APPROVAL FOR DESIGN

PARCELS 17, 18 + 19

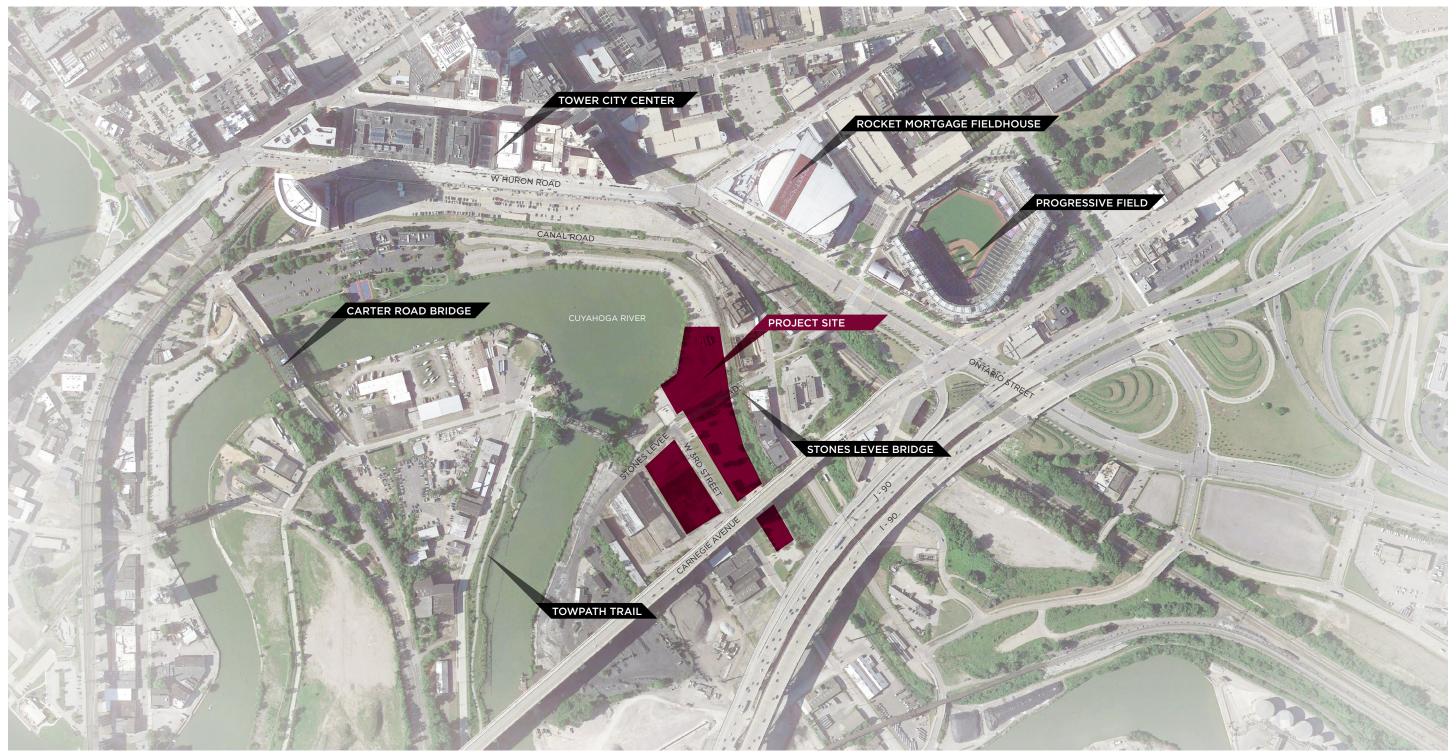
PARCEL 20, B+O, Breen and Landmark Office Tower - acquired after framework approval



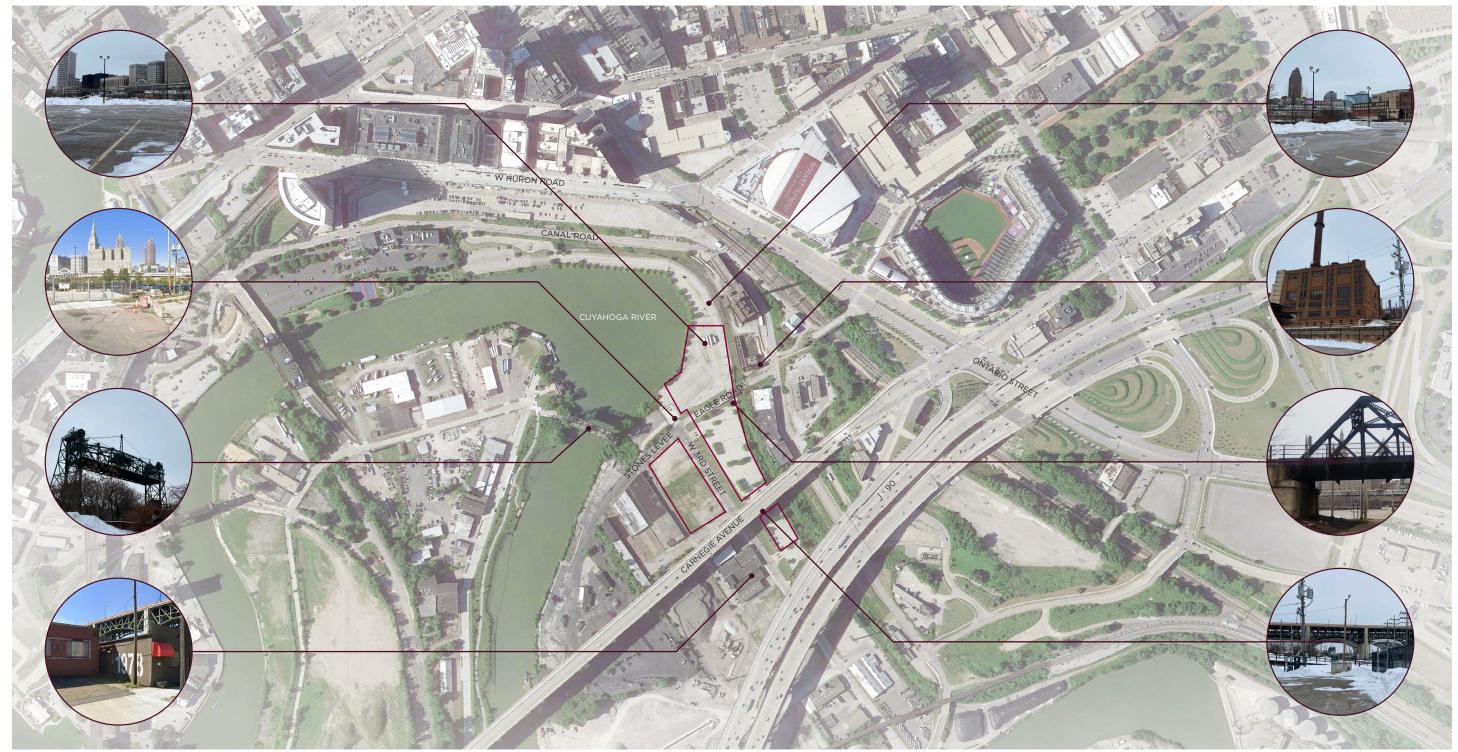
#### **SITE** Location Map



#### **SITE** Context Map



#### **SITE** Context Map



#### MASSING Concept | Context Massing



#### MASSING Concept | Context Map

SITE 01

#### **CAVALIERS TRAINING FACILITY**

LEVEL 01 approx. 66,000 SF

LEVEL 02 approx. 72,000 SF

LEVEL 03 approx. 40,000 SF

LEVEL 04 approx. 8,000 SF

approx. up to **186,000 SF** 

#### SITE 02

#### **CLEVELAND CLINIC**

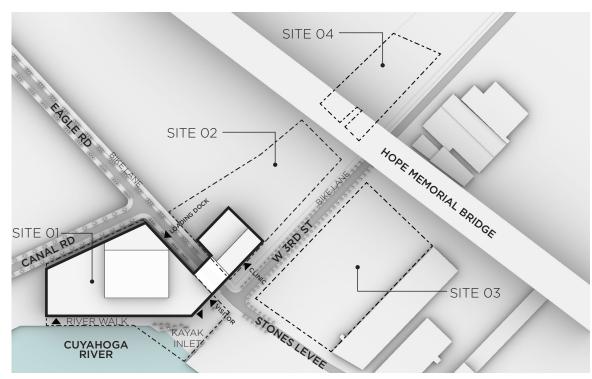
LEVEL 01 approx. 13,000 SF

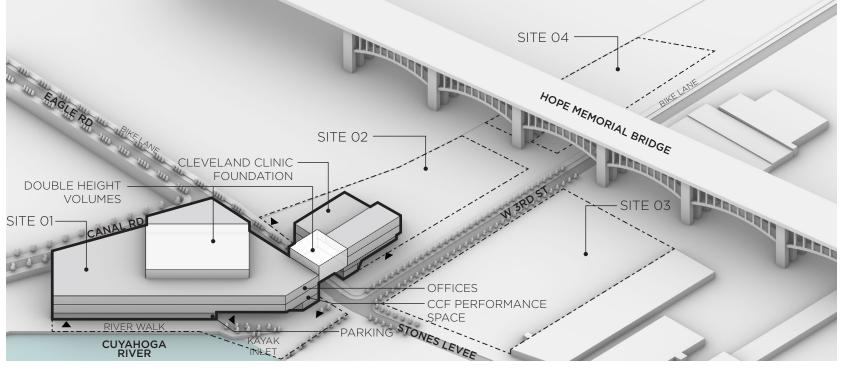
LEVEL 02 approx. 15,500 SF

LEVEL 03 approx. 22,000 SF

LEVEL 04 approx. 6,500 SF

approx. up to 61,500 SF



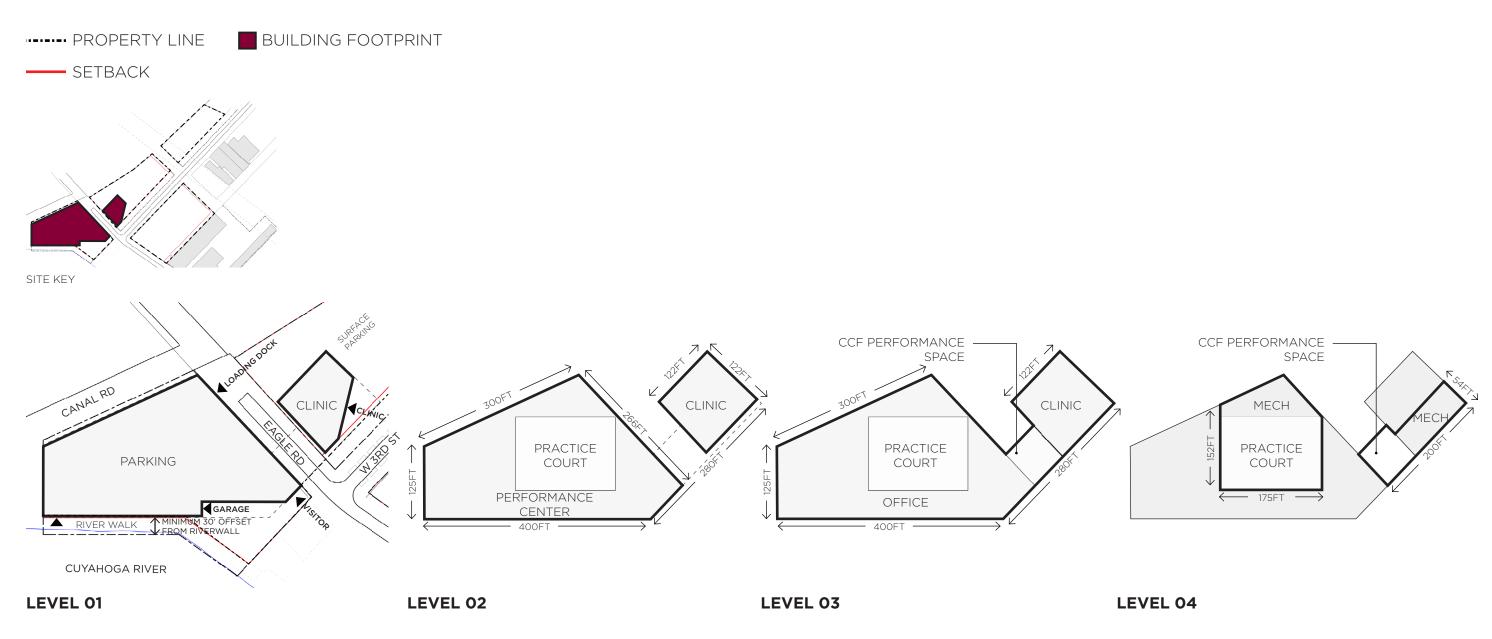






**■** BUILDING ENTRANCES/ACCESS

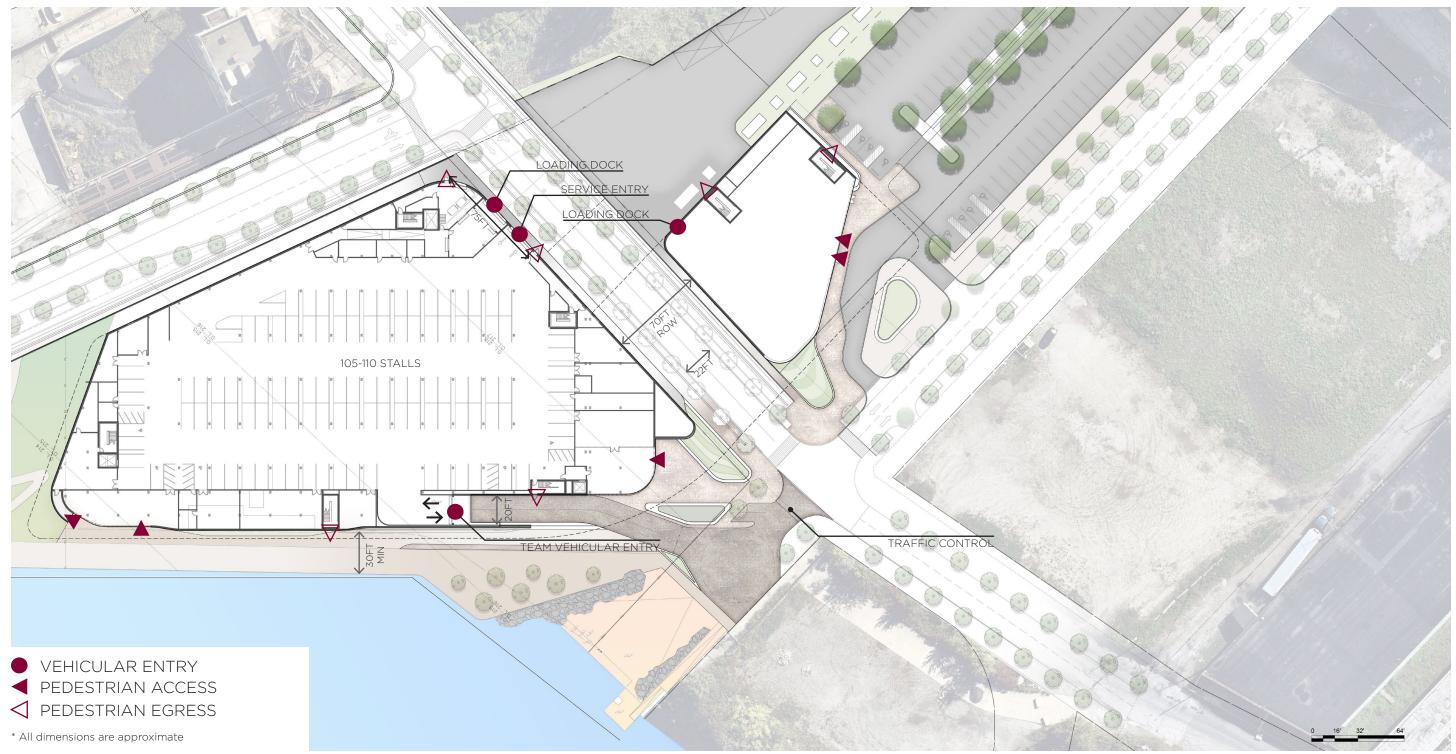
#### **MASSING** Concept | Plans

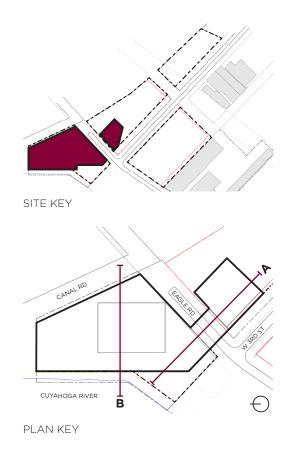


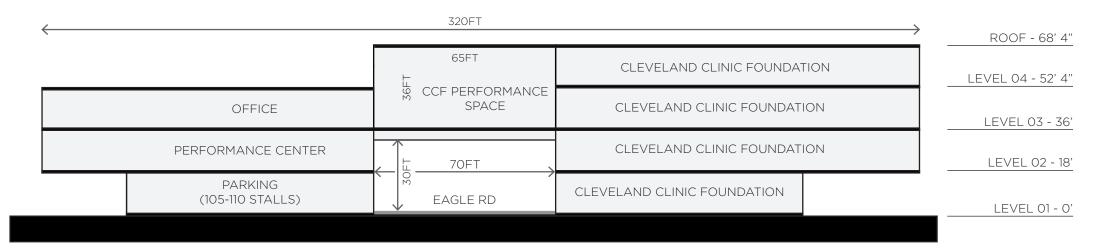


<sup>\*</sup> All dimensions are approximate

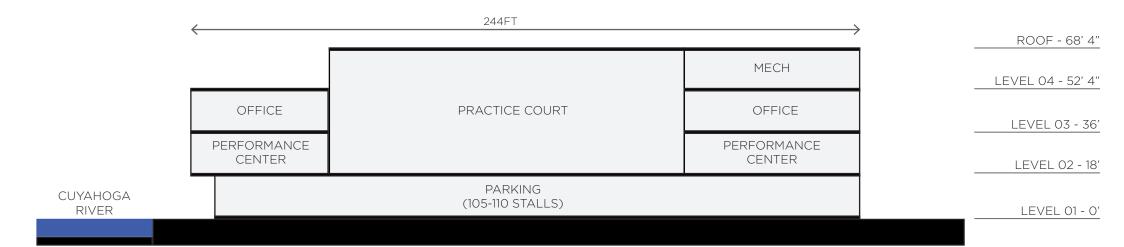
#### MASSING Concept | Ground Level Plan







#### **SECTION A**



**SECTION B** 

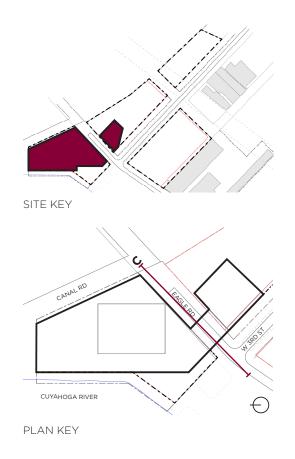
<sup>\*</sup> All dimensions are approximate

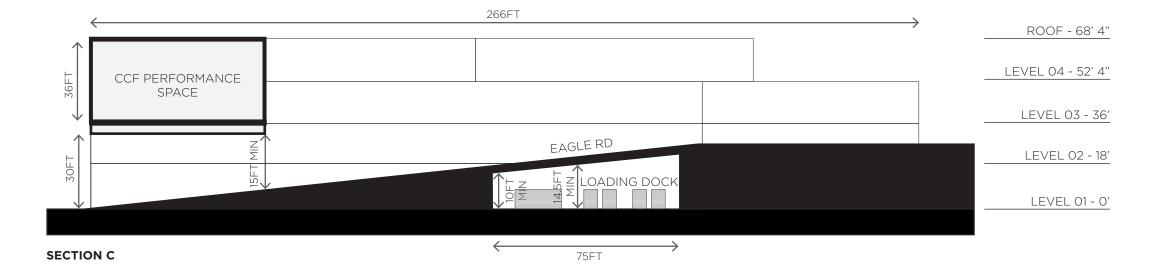
#### MASSING Concept | Views



VIEW TOWARDS EAGLE ROAD LOOKING NORTH EAST

#### **MASSING** Concept | Sections



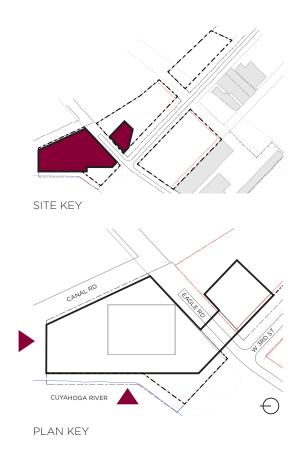


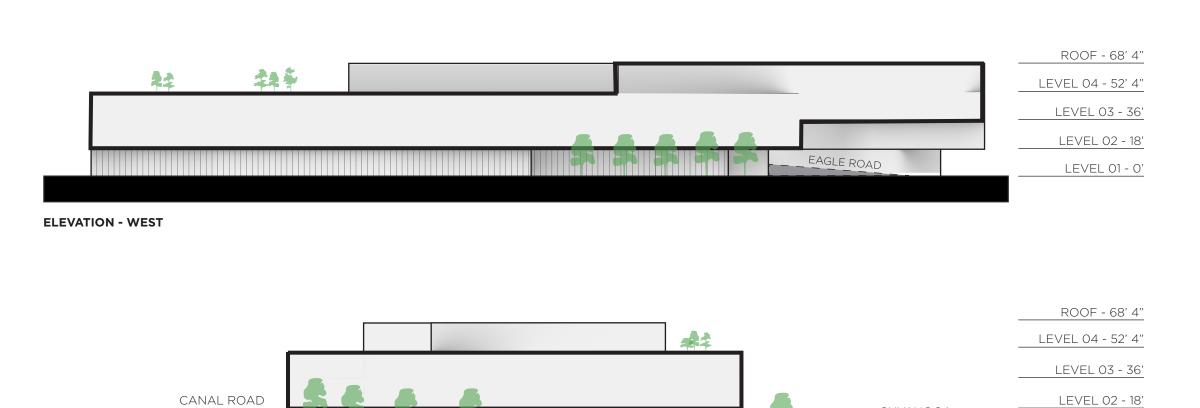
#### MASSING Concept | Views



VIEW FROM RIVERWALK TOWARDS EAGLE ROAD LOOKING SOUTH

#### **MASSING** Concept | Elevations



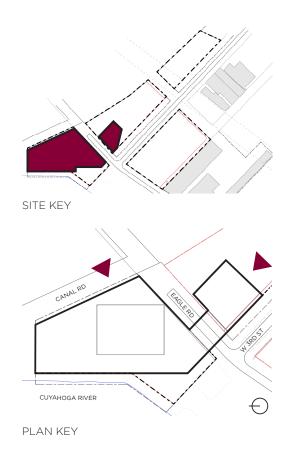


**ELEVATION - NORTH** 

LEVEL 01 - 0'

CUYAHOGA RIVER

#### **MASSING** Concept | Elevations







**ELEVATION - SOUTH** 

## **QUESTIONS**

## **APPENDIX**

#### TREE PRESERVATION PLAN:

Meeting with Jennifer Kipp, Urban Forestry Manager, on February 15, 2023, ahead of Conceptual Submission of the Cuyahoga Riverfront Masterplan Framework.

The key take-aways from the Urban Forestry Manager (City of Cleveland):

- Interest in the use of a silva cell-type product for the urban condition plantings on the project
- Focus on developing a growing condition for trees that ensures realization of a mature tree canopy for this project.
- The City of Cleveland approved tree list was used to develop the Cuyahoga Riverfront Masterplan landscape palette.

Please note: the only existing trees of note within the Masterplan boundary are primarily along the Riverfront



ORDERED
LANDSCAPE

NATURAL
MIXED OAK FOREST

SA RIVERFRONT MASTER PLAN - DOWNTOWN/ FLATS DESIGN REVIEW COMMITTEE PRESENTATION

## **Cleveland City Planning Commission**

## **Staff Report**



A POPULATION OF THE POPULATION

October 20, 2023

#### **Committee Recommendation: Approved**

- Per development agreement process, all smaller area plans are to be reviewed by the Commission.
- Southeastern end of the riverwalk at W. 3rd Street to be better integrated into the overall site context and future trail expansion opportunities. Currently the riverwalk plan dead-ends at the player parking entrance, creating conflicts with riverwalk users & boat launch. Relocate or reconsider player parking entrance design and enhance this key connection point.
- Articulate and show boat launch circulation and usage, including drop-off & pick-up with a trailer, and how that interconnects to streetscape.
- Further articulation needed for vehicular circulation, including connections to Eagle Ave and Canal Road, and adjacent properties/rights-of-way.
- Pedestrian bridge / performance space above road as designed causes concern and requires additional
  articulation, revision, or elimination. Overall design to emphasize pedestrian circulation and intentional usage
  on the street-level.

SPA: Downtown

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October 20, 2023

#### **Committee Recommendation:**

- Further consideration of human-scale experiences and articulation of how the concept integrates into the surrounding context.
- Riverwalk's design needs improvement and further articulation beyond 30' of hardscape with benches. Increase riverwalk width and include space appropriate for pedestrian usage.
- Overall pedestrian experience needs improvement & articulation on all sides of the proposed development.
- Ground-level parking garage needs reconsidered. Provide amenities and/or elements conducive to pedestrian usage, safety, and activation on the ground-level.

SPA: Downtown

THUING COMPANY OF THE PARTY OF

October 20, 2023

**DF2023-059 – Cavs Sherwin Williams Wall Banner:** Seeking Final Approval

SPA: Downtown

**Project Location: 101 Prospect** 

Project Representative: Mike Johnson, All Phase Mechanicals



#### **PROJECT SUMMARY**

Background: A new year...

To start off the 2023 season the Cleveland Cavaliers has decided to update the old worn out banner that is starting to show its age. A new design has been created to update the look of the City and welcome a New Year with the Cleveland Cavaliers once again.

Fusion Imaging who developed this magnificent work of art is again proud to be involved in this wonderful project in behalf of the Cavaliers.





2007 2009



#### **Cleveland Cavaliers New Year**

2023 is a year for new beginnings and a fresh new look



2012 2013



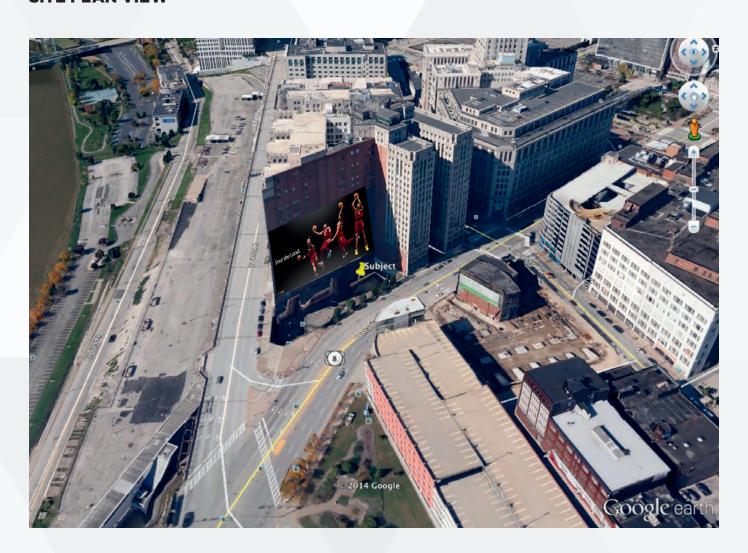


#### PROPOSED NEW IMAGE/BANNER



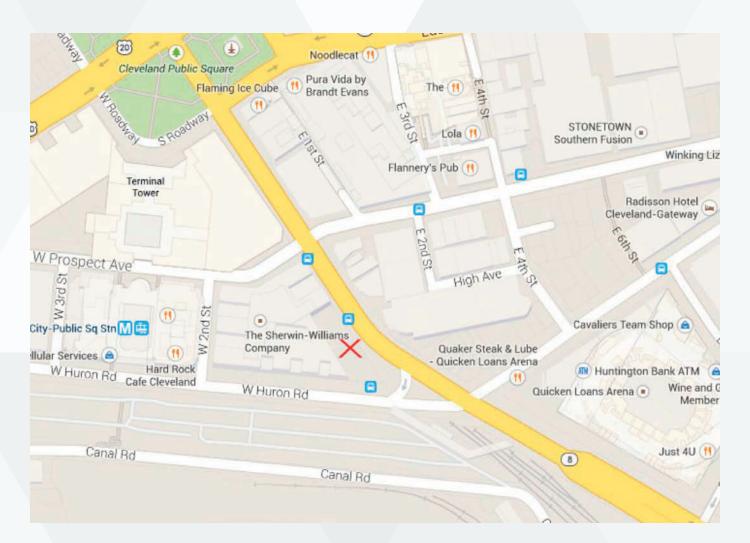


#### **SITE PLAN VIEW**

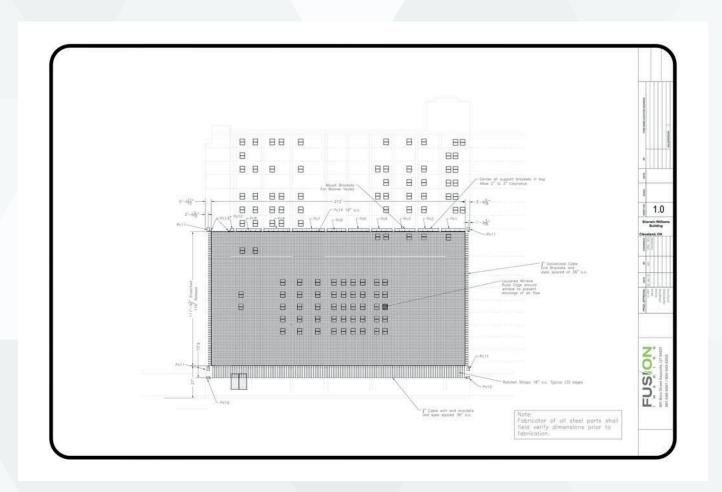




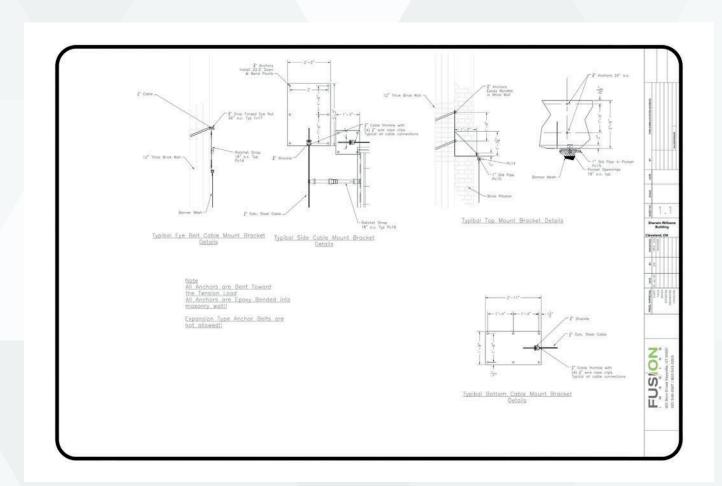
#### SITE MAP



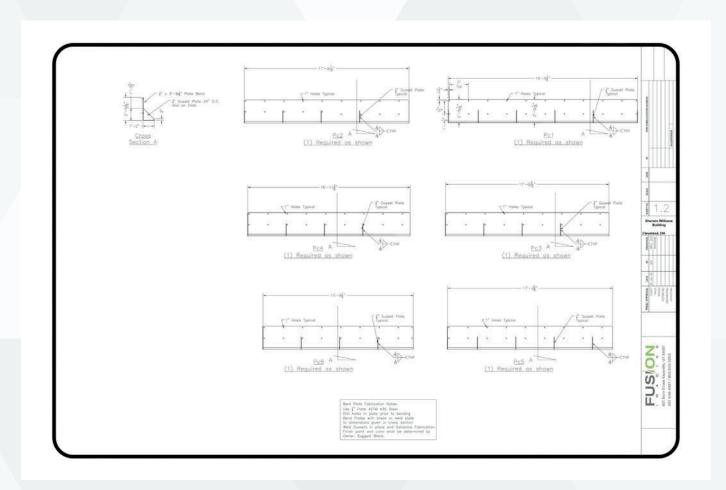




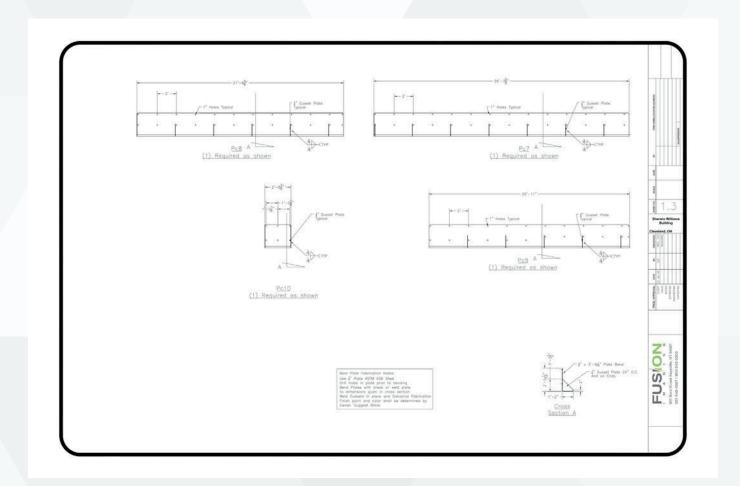




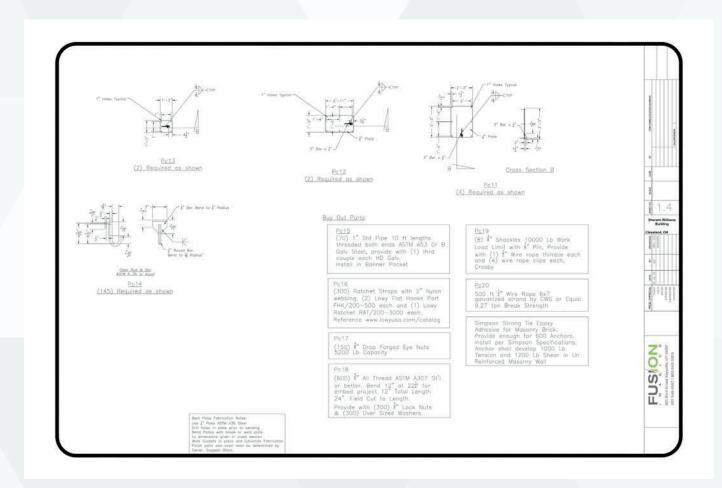






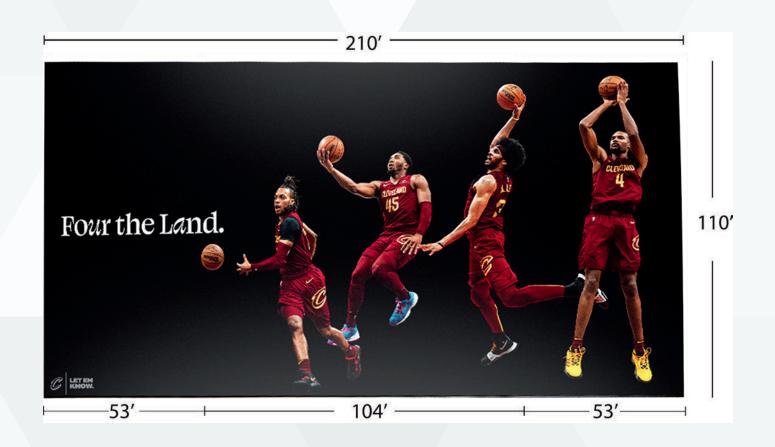








#### **BANNER MEASUREMENTS**



## **Cleveland City Planning Commission**

## **Staff Report**





October 20, 2023

Committee Recommendation: Approved as Presented

SPA: Downtown

### **Cleveland City Planning Commission**

## **Mandatory Referrals**



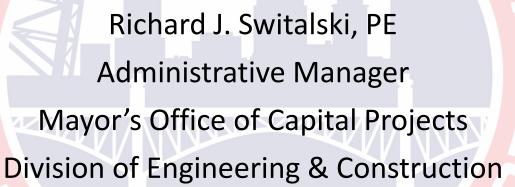
October 20, 2023



**Ordinance No. 1154-2023** (Introduced by Councilmembers Griffin, Bishop and Hairston – by departmental request): Authorizing the Director of Capital Projects to enter into a maintenance, inspection and repair agreement with and to issue a permit to The Cleveland Clinic Foundation to encroach onto, over and within the public right-of-way of East 100<sup>th</sup> Street by constructing, installing, using, and maintaining an overhead pedestrian bridge.

## City Planning Commission

Friday, October 20th, 2023



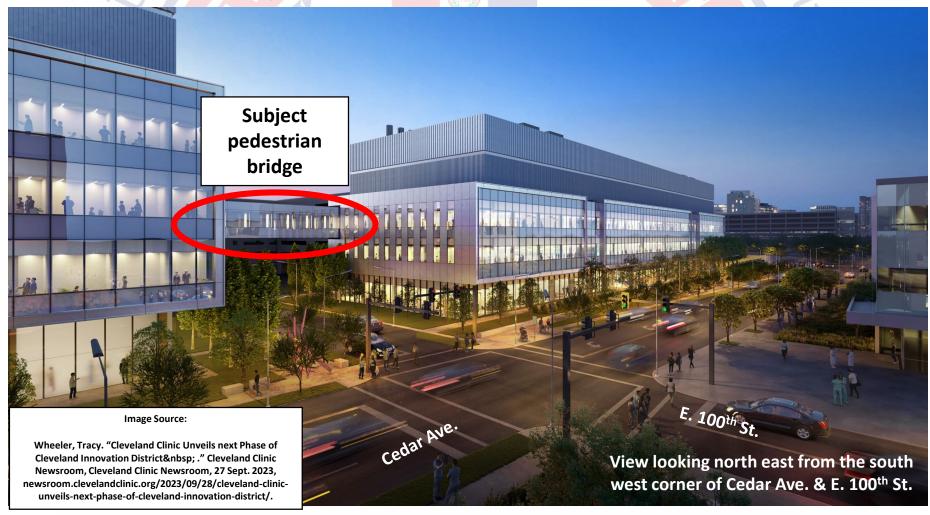
Building Cleveland

An emergency ordinance authorizing the Director of Capital Projects to issue an encroachment permit to the Cleveland Clinic Foundation for an overhead pedestrian bridge

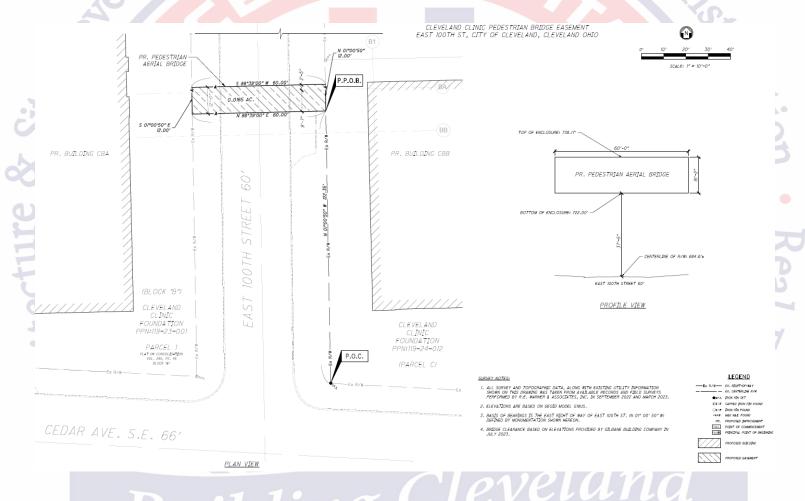
- Authorizes
  - Entry into maintenance, inspection, and repair agreement with the Cleveland Clinic Foundation
  - Issuance of a permit to the Cleveland Clinic Foundation to encroach into the public right of way of East 100<sup>th</sup> Street by installing, using, and maintaining said bridge

Building Cleveland

## Proposed research buildings

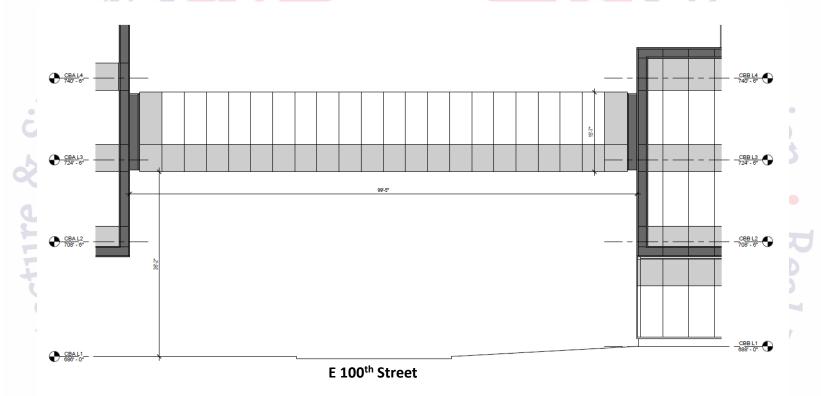


Portion of encroachment exhibit



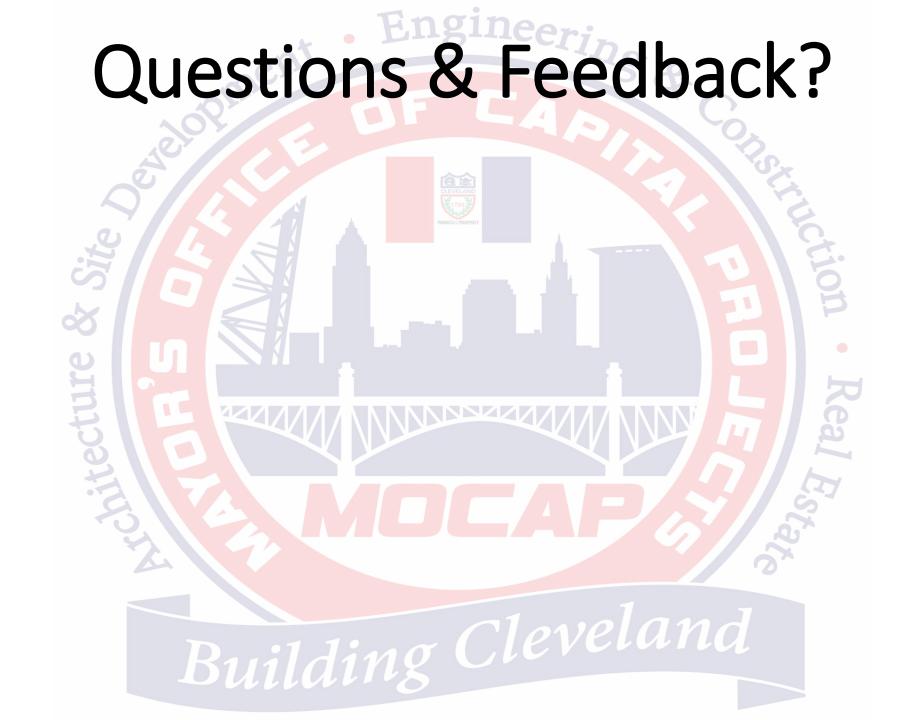
Building Clevelana

Proposed pedestrian bridge elevations



SOUTH ELEVATION - PEDESTRIAN BRIDGE

Building Cleveland



### **Cleveland City Planning Commission**

## **Administrative Approvals**



#### **Administrative Approvals**

October 20, 2023



#### **Ordinance No. 1141-2023**

(Introduced by Council Members Bishop and Griffin – by departmental request): To amend various sections of the Codified Ordinance of Cleveland, Ohio, 1976, as amended by various sections; to repeal Sections 505.04, 505.05, 505.07 to 505.10, as amended by various ordinances; to supplement the codified ordinances by enacting new Sections 502.01, to 502.06, 503.014, 505.16, and 514.091, relating to sidewalks and right-of-way generally.

### **Administrative Approvals**

October 20, 2023



### **Ordinance No. 1039-2023**

(Introduced by Council Members Hariston and Griffin – by departmental request): To amend carious Sections of the Codified Ordinances of Cleveland, Ohio, 1976, as amended by various ordinances, relating to the Department of Building and Housing generally; to renumber existing Section 3143.04 to 3143.98; to change the name of Chapter 3143; and to enact new Sections 3104.01 to 3104.09, 3104.99, 33106.01 to 3106.10, 3106.99, 3143.04, and 3143.05, relating to civil enforcement, vacant property registration, and parking garage inspections.

### **Administrative Approvals**

October 20, 2023



### **Ordinance No. 1157-2023**

(Introduced by Council Members Bishop and Griffin – by departmental request): Authorizing the Director of Capital Projects to employ one or more consultants to provide professional services necessary to rehabilitate the Martin Luther King, Jr. Boulevard Bridge: to apply for and accept any gifts or grants for this purpose from any public or private entity; and authorizing the Commissioner of Purchases and supplies to acquire, accept and record for right-of-way purposes any real property and easements necessary to make the improvement.

### **Cleveland City Planning Commission**

### **Special Presentations - Public Art**



### **Special Presentation**

EVEL EVEL AND OF

October 20, 2023

**DF2023-56** – Andrea Bowers Neon Sculpture for MoCa: Seeking Final Approval

SPA: Downtown

Location: 601 Erieside Avenue (Great Lakes Science Center)

Presenter: Megan Reich, MoCa

## Neon sculpture by Andrea Bowers

A collaborative project between

Museum of Contemporary Art Cleve land



FOR DESIGN REVIEW

## About the project

This project, organized by moCa Cleveland and supported by the VIA Art Fund, will feature a large-scale neon sculpture whose words call attention to the health and future of Lake Erie. Installed at the back side of the Great Lakes Science Center, it will be positioned to be viewed by pedestrian traffic and small watercraft in the lagoon between the Science Center and the Rock and Roll Hall of Fame.

### **ORGANIZED BY**

Museum of Contemporary Art Cleve land

### **ORGANIZATION PARTNER**



### FINANCIAL SUPPORT



### **COMMUNITY SUPPORT**



MC2STEM High School John Hay High School



### About the artist

Andrea Bowers is a multimedia artist based in Los Angeles whose work has been exhibited nationally and internationally and is part of the permanent collection of many institutions including the Museum of Modern Art, New York, Pérez Art Museum Miami, the Whitney Museum of American Art, New York, Hirshhorn Museum and Sculpture Garden, Washington D.C., and the Museum of Contemporary Art, Los Angeles.

Born in Wilmington, Ohio and raised in Huron, Ohio, Bowers received her BFA from Bowling Green State University, and now lives in Los Angeles. She frequently returns to Northeast Ohio and is deeply passionate about environmental issues in general and the health and vitality of Lake Erie in particular.



Museum of Contemporary Art Cleve land







Past neon work examples by Andrea Bowers

### Local connections

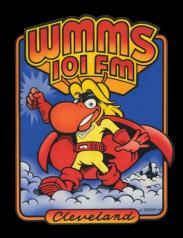
### **FABRICATION**

Lorain-based NavCour Glassware specializes in making the impossible possible through high-quality custom scientific glass blowing, unique neon tube signage, and creative art glass.



Cleveland-based artist David Helton, long-time illustrator for radio station WMMS, collaborated with Andrea Bowers on a unique design for this project.





## About the sculpture

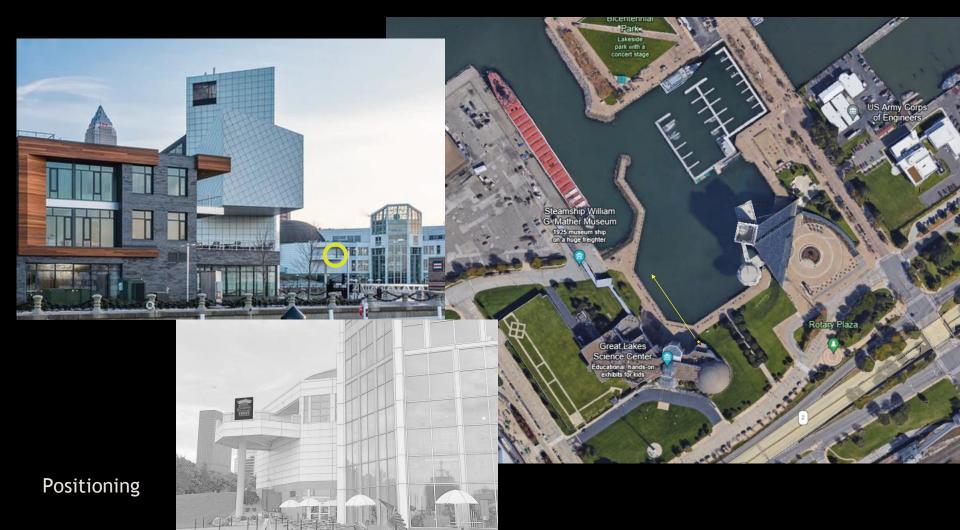
### CONSTRUCTION

Neon will be mounted to 6mm thick ALUPANEL material (an aluminum composite using aluminum sheets sandwiching a black polyethylene core). This material is extremely rigid and lightweight and is designed for outdoor use. All of the above will be mounted to steel mesh panels which will be welded to the customized framework.

### **VISIBILITY**

- Red neon will be perceptible up to 1000 feet
- Blue neon will be perceptible up to 750 feet
- Green neon will be perceptible up to 650 feet

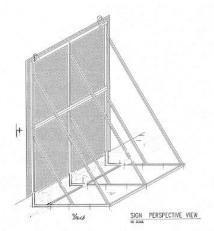
Logistical details

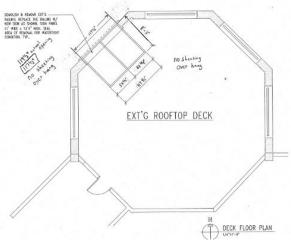


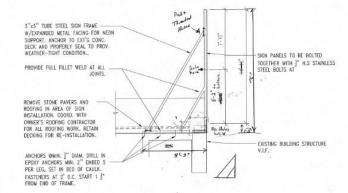
## Structure

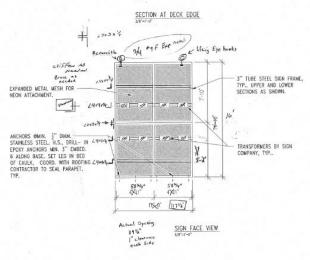








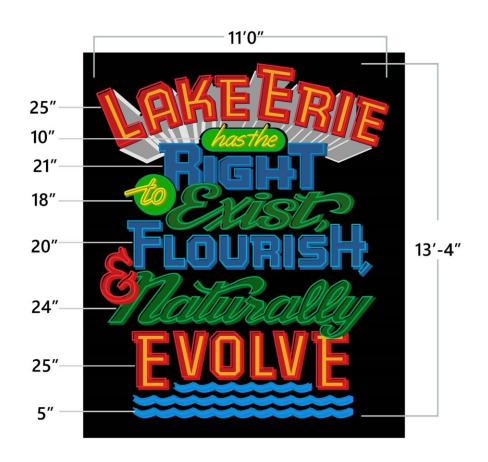






### Location

# About the sculpture



### **Cleveland City Planning Commission**

## **Staff Report**



October 20, 2023



### **Committee Recommendation:** Approval with **conditions**:

Approval with condition that a stamped drawing is submitted from a structural engineer showing the connection to the deck and the provision of a safety hand rail behind the sculpture tying into the rest of the existing protection system.

SPA: Downtown

### **Special Presentation**

LUEVELAND OF COMPANY O

October 20, 2023

**NE2023-022 – St Clair Superior DC Quick Win Placemaking Project:** 

**Seeking Final Approval** 

Location: 6517, 6400 & 6510 St. Clair – and 4 utility poles between E. 64th and Addison

Presenter: Joe Lanzilotta, LAND

Ward 7and 10 - Councilmembers Howse and Hairston

SPA: St Clair - Superior

## stClair Superior

### PLACEMAKING QUICK WINS

09.27.2023



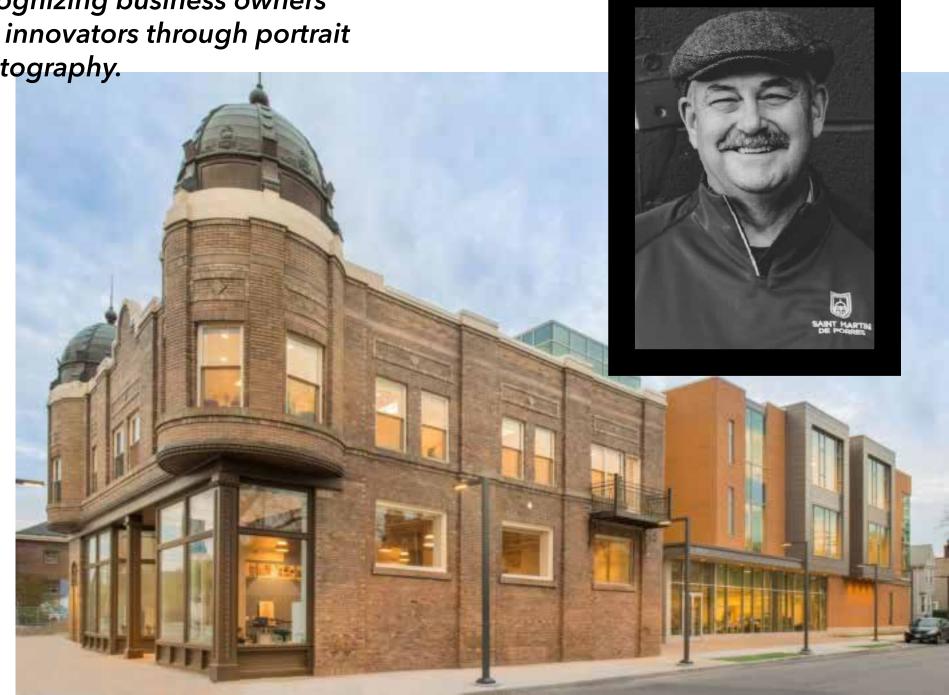
## Thematic Ideas

(a unifying narrative)



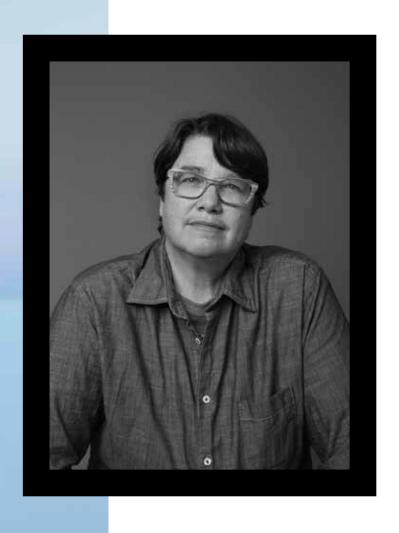
### **Propping-up the People**

Recognizing business owners and innovators through portrait photography.



### **Propping-up the People**

Community expression through artwork and interviews.



"I think one of the most glorious times around the lake is in the winter. Everything goes silent."

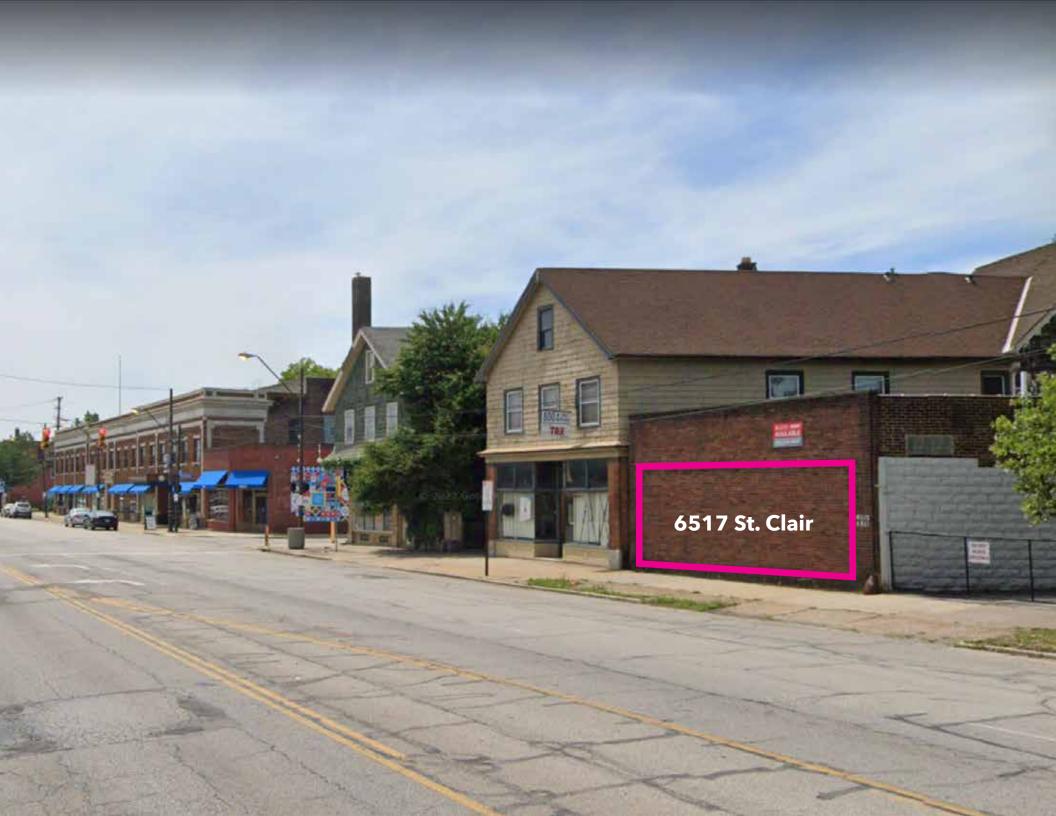
## Art Walls

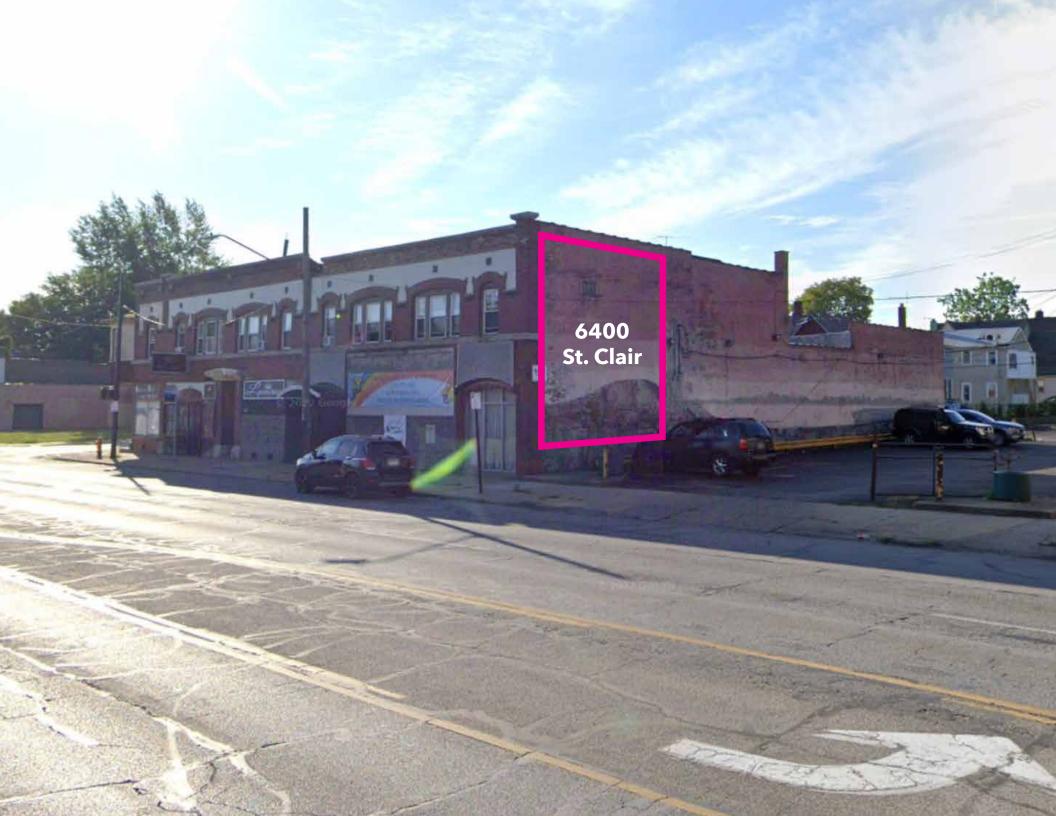
(rotating outdoor galleries)











### **Aja Joi Grant - Work Samples**

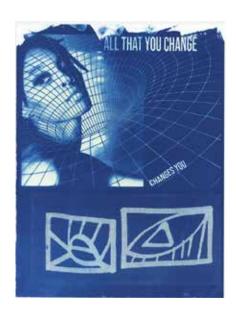
Zygote teaching artist / Cleveland Print Room teaching artist. Cyanotypes created at Zygote.



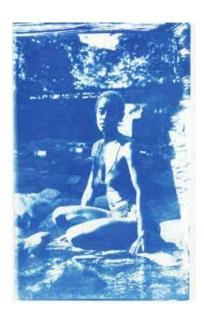
### **Aja Joi Grant - Work Samples**

Zygote teaching artist / Cleveland Print Room teaching artist. Cyanotypes created at Zygote.









### **Aja Joi Grant - Work Samples**

Zygote teaching artist / Cleveland Print Room teaching artist.

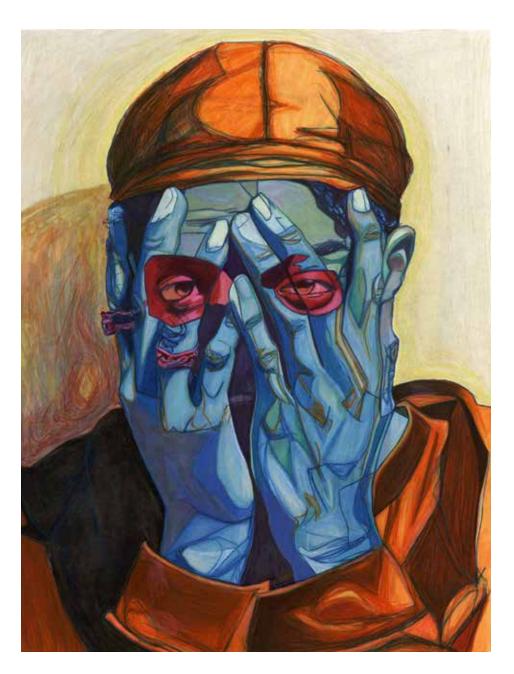






### **Aaron D. Williams - Work Samples**

Zygote artist / neighborhood resident.



### **Aaron D. Williams - Work Samples**

Zygote artist / neighborhood resident.













### **Rev. Albert Wagner - Work Samples**

Late Cleveland artist





### **Rev. Albert Wagner - Work Samples**

Late Cleveland artist







# Murals

(painted artwork)



#### **Dayz Whun - Work Samples**



### **Dayz Whun - Work Samples**















# Banners

(rotating outdoor galleries)

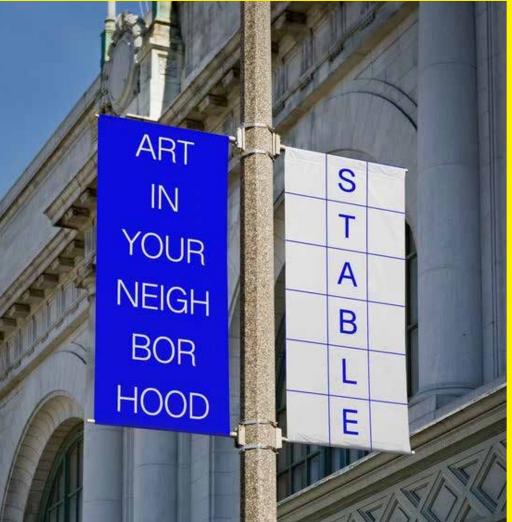












### **McKinley Wiley - Work Samples**

Cleveland photographer / business owner.









#### **McKinley Wiley - Concept Placeholder**

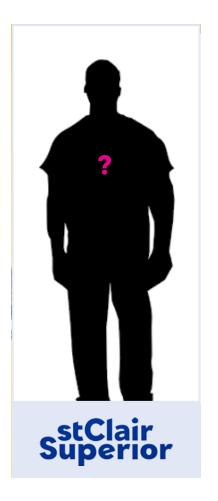
Cleveland photographer / business owner.

# The people who make the community!









**Residents** 

**Business Owners** 

**Employees** 

and More.

#### **McKinley Wiley - Progress Photos**

Shawnda Moye (Roaming Biscuit) + Awful Aaron (artist)





#### **McKinley Wiley - Progress Photos**

Shawnda Moye (Roaming Biscuit) + Awful Aaron (artist)





# THANK YOU!

www.land-studio.org jlanzilotta@land-studio.org

## **Cleveland City Planning Commission**

# **Staff Report**



October 20, 2023



#### **Committee Recommendation:** Final Approval with states **Conditions:**

Approved the 2 semi-permanent murals; 1 painted mural and 4 banners as proposed with the painted mural have an administrative review by Cleveland Planning Commission prior to installation.

SPA: St Clair - Superior

Scoot up the bottom one mural to be in line with the stone base of the building

### **Cleveland City Planning Commission**

## **Special Presentations**



#### **Special Presentation**

LEVELAND OF COMMUNICATION OF COMMUNICATI

October 20, 2023

#### Form Based Code Public Engagement Update

Presenter: Shannan Leonard, Staff Planner

### **Cleveland City Planning Commission**

## **Director's Report**





#### **Professional Development**

• Seven staff members attended the American Planning Association Ohio Conference





• One staff member attended the SMART Grant Conference (IIJA) in Washington D.C.

October 20, 2023



#### **Staff Recognition**

 Xavier Bay, recognized by the City of Cleveland for Hispanic Heritage Month

 Britany Pabon, recognized as 100+ Latinos Cleveland Must Know by AmMore





## **Cleveland City Planning Commission**

## Adjournment

