



Health

Building Permit Application

Howard County Maryland
Department of Inspections, Licenses and Permits
3430 Court House Drive
Permits: 410-313-2455
www.howardcountymd.gov

DILP 2018 APR 5 PM 4:04

Date Received: _____

Permit No.: B1800/098

Building Address: 8916 McGAW COURT
City: COLUMBIA State: MD Zip Code: 21045
Suite/Apt. #: _____ SDP/WP/BA #: _____
Census Tract: _____ Subdivision: _____
Section: _____ Area: _____ Lot: 62
Tax Map: 0036 Parcel: 0366 Grid: 0023
Zoning: NT Map Coordinates: _____ Lot Size: _____

Existing Use: G-1 STORAGE, B-BUSINESS REPAIR GARAGE
Proposed Use: G-1 STORAGE, B-BUSINESS
Estimated Construction Cost: \$ 100,000
Description of Work: REMOVE (1) EX. PAINT BOOTH + REMOVE (1) PREP DECK; INSTAL (1) PAINT BOOTH + ASSOCIATED EQUIPMENT
Occupant/Tenant Name: TRISATE COLLISION CENTER
Was tenant space previously occupied? Yes No
Contact Name: MIKE SHECKELLS
Address: 8916 McGAW COURT
City: COLUMBIA State: MD Zip Code: 21045
Phone: 443-539-1213 Fax: _____
Email: mshckells@appleford.com

Property Owner's Name: HARVEST LLC
Address: 8800 STANFORD BLVD.
City: COLUMBIA State: MD Zip Code: 21045
Phone: 443-639-1213 Fax: _____
Email: _____

Applicant's Name & Mailing Address, (if other than stated herein)
Applicant's Name: FORD GREENE (SEE BELOW)
Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Fax: _____
Email: _____

Contractor Company: TENANT TO ACT AS CONTRACTOR
Contact Person: _____
Address: _____
City: _____ State: _____ Zip Code: _____
License No.: _____
Phone: _____ Fax: _____
Email: _____

Engineer/Architect Company: GREENE ARCHITECTURE
Responsible Design Prof.: FORD GREENE
Address: 313 E. MELROSE AVE.
City: BALTIMORE State: MD Zip Code: 21212
Phone: 410-632-7396 Fax: _____
Email: greene.architecture@gmail.com

Commercial Building Characteristics	Residential Building Characteristics
Height: <u>23'</u>	<input type="checkbox"/> SF Dwelling <input type="checkbox"/> SF Townhouse
No. of stories: _____	Depth _____ Width _____
Gross area, sq. ft./floor: <u>56,950</u>	1 st floor: _____
Area of construction (sq. ft.): <u>1,180</u>	2 nd floor: _____
Use group: <u>G-1, B</u>	Basement: _____
Construction type:	<input type="checkbox"/> Finished Basement
<input type="checkbox"/> Reinforced Concrete	<input type="checkbox"/> Unfinished Basement
<input checked="" type="checkbox"/> Structural Steel	<input type="checkbox"/> Crawl Space
<input type="checkbox"/> Masonry	<input type="checkbox"/> Slab on Grade
<input type="checkbox"/> Wood Frame	No. of Bedrooms: _____
<input type="checkbox"/> State Certified Modular	Multi-family Dwelling
<input type="checkbox"/> Roadside Tree Project Permit	No. of efficiency units: _____
<input type="checkbox"/> Yes <input type="checkbox"/> No	No. of 1 BR units: _____
Roadside Tree Project Permit # _____	No. of 2 BR units: _____
	No. of 3 BR units: _____
	Other Structure: _____
	Dimensions: _____
	Footings: _____
	Roof: _____
	<input type="checkbox"/> State Certified Modular
	<input type="checkbox"/> Manufactured Home

Utilities	
Electric: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Gas: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Water Supply	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Sewage Disposal	
<input checked="" type="checkbox"/> Public	
<input type="checkbox"/> Private	
Heating System	
<input type="checkbox"/> Electric <input type="checkbox"/> Oil	
<input checked="" type="checkbox"/> Natural Gas <input type="checkbox"/> Propane Gas	
<input type="checkbox"/> Other: _____	
Sprinkler System:	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Grading Permit Number: _____	
Building Shell Permit Number: _____	

THE UNDERSIGNED HEREBY CERTIFIES AND AGREES AS FOLLOWS: (1) THAT HE/SHE IS AUTHORIZED TO MAKE THIS APPLICATION; (2) THAT THE INFORMATION IS CORRECT; (3) THAT HE/SHE WILL COMPLY WITH ALL REGULATIONS OF HOWARD COUNTY WHICH ARE APPLICABLE THERETO; (4) THAT HE/SHE WILL PERFORM NO WORK ON THE ABOVE REFERENCED PROPERTY NOT SPECIFICALLY DESCRIBED IN THIS APPLICATION; (5) THAT HE/SHE GRANTS COUNTY OFFICIALS THE RIGHT TO ENTER ONTO THIS PROPERTY FOR THE PURPOSE OF INSPECTING THE WORK PERMITTED AND POSTING NOTICES.

Applicant's Signature: Ford Greene Print Name: FORD GREENE
Email Address: greene.architecture@gmail.com Date: 3.9.2018
Title/Company: ARCHITECT / GREENE ARCHITECTURE

Checks Payable to: DIRECTOR OF FINANCE OF HOWARD COUNTY
PLEASE WRITE NEATLY & LEGIBLY
FOR OFFICE USE ONLY

AGENCY	DATE	SIGNATURE OF APPROVAL
State Highways		
Building Officials		
PSZA (Zoning)		
PSZA (Engineering)		
Health	<u>3/29/2018</u>	<u>[Signature]</u>

Is Sediment Control approval required for issuance? Yes No
 CONTINGENCY CONSTRUCTION START

DPZ SETBACK INFORMATION
Front: _____
Rear: _____
Side: _____
Side St.: _____
All minimum setbacks met? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is Entrance Permit Required? <input type="checkbox"/> Yes <input type="checkbox"/> No
Historic District? <input type="checkbox"/> Yes <input type="checkbox"/> No
Lot Coverage for New Town Zone: _____
SDP/Red-line approval date: _____

Filing Fee	\$ <u>260.00</u>
Permit Fee	\$ _____
Tech Fee	\$ _____
Excise Tax	\$ _____
PSFS	\$ _____
Guaranty Fund	\$ _____
Add'l per Fee	\$ _____
Total Fees	\$ _____
Sub- Total Paid	\$ _____
Balance Due	\$ _____
Check	# <u>11602</u>

Distribution of Copies: White: Building Officials Green: PSZA,Zoning Yellow: PSZA,Engineering Pink: Health Gold: SHA

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MAR 04 2019

LICENSES & PERMITS
DIVISION



313 East Melrose Avenue
Baltimore, Maryland 21212
Phone 410.532.7396
Cell 410.241.0156
greene.architecture@gmail.com

Robert Freemon
Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, MD 21046

February 28, 2019

Project: Building Permit # B18001098, Tristate Collision Center, 8916 McGaw Court, Columbia, MD 21045

Dear Mr. Freemon,

We are in receipt of your 4/16/2018 letter concerning verification of an Air Quality Permit issued by the Maryland Department of the Environment for the paint booth equipment installation under the building permit listed above.

The MDE Air Quality Permit for this project is 027-0432-6-0471.

If you require additional information or clarification, please feel free to call me at any time at either of the numbers listed above.

Sincerely,

A handwritten signature in cursive script that reads 'Ford Greene'.

Ford Greene, Greene Architecture





Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

Maura J. Rossman, M.D., Health Officer

April 16, 2018

8916 McGaw Court
Columbia, MD 21045

RE:

8916 Mc Gaw Court
Columbia, MD 21045

"Before BP Approval"

Mr. Ford:

This letter is in response to building permit B18001098. The building permit application and plans indicate the proposed work includes equipment that will be used for paint spraying and will need to be reviewed and permitted with Maryland Department of the Environment (MDE), Air Quality Program, Air and Radiation Management Administration. If you have any questions you can contact the Air Quality Permits Program at (410) 537-3230.

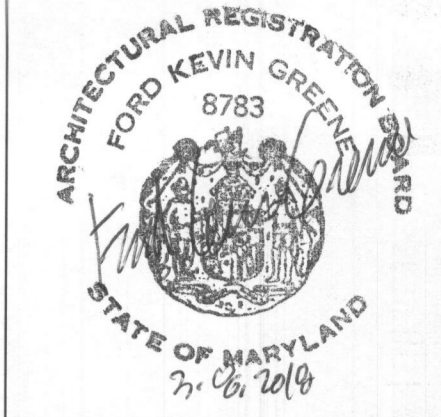
Building permit approval is being withheld until a permit has been issued by MDE or a copy of the payment invoice indicating that the review has been completed has been forwarded to the Health Department. I may be reached at 410 313-6357 if you would like to discuss the project in more detail.

Respectfully,

A handwritten signature in black ink, appearing to read 'Robert Freeman', is written over a horizontal line.

Robert Freeman
Well & Septic Program
Bureau of Environmental Health

INSTALLATION OF (1) PRE-ENGINEERED PAINT SPRAY BOOTH AND ASSOCIATED EQUIPMENT FOR TRISTATE COLLISION CENTER



**GREENE
ARCHITECTURE**

313 E. MELROSE AVE.
BALTIMORE, MD 21212
P. 410.532.7396
C. 410.241.0156
greene.architecture@gmail.com

PROFESSIONAL
CERTIFICATION:
I CERTIFY THAT THESE
DOCUMENTS WERE
PREPARED BY ME, & THAT
I AM A DULY LICENSED
ARCHITECT UNDER THE
LAWS OF MARYLAND,
LICENSE # 8783,
EXPIRATION DATE
10/17/2019.

GENERAL NOTES

Tenant: Tristate Collision Center
8916 McGaw Court
Columbia, MD 21045

Contact: Mike Sheckells @ 443-539-1213

Project: Removal of One Prep Deck and One Paint Spray Booth,
Associated Equipment and the Installation of One New
Pre-Engineered Paint Spray Booth and Associated Equipment.

Location: 8916 McGaw Court

Type of Building: Construction: 2-B (IBC)

Fire Protection: Fully Sprinklered Building with Sprinklered
Pre-Engineered Paint Spray Booth.
See Construction Notes, This Sheet, for Other
Requirements.

Number of Stories Above Grade: 1

Building Height: 23'-0" Maximum

High Rise Building: No

Covered Mall: No

Handicap Access: Yes

Work Area: 1,180 SF

Occupant Load: See Code Review.

Areas To Be Constructed: Pre-Engineered Paint Spray Booth and
Mechanical Equipment: 588 SF

CODE DATA SCHEDULE						
OWNERS		CONSTRUCTION TYPE		SUITE EGRESS		
HARVEST LLC., 8800 STANFORD BLVD., COLUMBIA, MD 21045		IBC USE: S-1 STORAGE, B BUSINESS; NFPA 101 USE: SPECIAL PURPOSE INDUSTRIAL, B		MAXIMUM LENGTH OF TRAVEL (S1)		
PROPERTY ADDRESS		TYPE II B, FULLY SPRINKLERED BUILDING WITH SPRINKLERED PAINT SPRAY BOOTHS, NON-SEPARATED.		250 FT. MAX.		
8916 MCGAW COURT, COLUMBIA, MD 21045		GENERAL BUILDING LIMITATIONS (BASED ON S-1 USE & II B CONSTRUCTION)		110 FT		
JURISDICTION		ALLOWABLE		ACTUAL		
HOWARD COUNTY		TABULAR HEIGHT, SPRINKLERED SM		75 FEET		
APPLICABLE CODES & REGULATIONS		TOTAL HEIGHT		75 FEET		
INTERNATIONAL BUILDING CODE / 2015 MARYLAND BUILDING REHABILITATION CODE (IEBC) / 2015 INTERNATIONAL PROPERTY MAINTENANCE CODE / 2006 NATIONAL ELECTRICAL CODE (NFPA 70) / 2017 INTERNATIONAL MECHANICAL CODE / 2015 NATIONAL STANDARD PLUMBING CODE / 2009 INTERNATIONAL ENERGY CONSERVATION CODE / 2015 MARYLAND ACCESSIBILITY CODE / 2012, COMAR 05.02.02 LIFE SAFETY CODE (NFPA 101) / 2015 NATIONAL FUEL GAS CODE (NFPA 54) / 2009 SEE ALSO CONSTRUCTION NOTES THIS SHEET AND SPECIFICATIONS ON SHEET SB-3 FOR OTHER APPLICABLE NFPA CODES		STORIES		23'-0" +/-		
		TABULAR STORIES, BUSINESS B, S1		4 STORIES	1 STORY	
		TABULAR STORIES, STOR S-1, S1		3 STORIES		
		AREA		TABULAR AREA / FLOOR		56,850 SF
				PER IBC 506.2, S1		
		FRONTAGE INCREASE @ 75%				
		TOTAL AREA				
OCCUPANCY		IBC				
		S-1 STORAGE	B-BUSINESS	S-1 STORAGE		
PROJECT SCOPE		SHOP AREA		38,182 SF		
		OFFICE AREA		7,191 SF		
		COMPRESSOR ROOM		202 SF		
		OCCUPANT LOAD RATIO	300 SF / PERSON	100 SF / PERSON		
		OCCUPANT LOAD SUBTOTAL	128 PERSONS	72 PERSONS		
		OCCUPANT LOAD TOTAL	201 PERSONS			

CODE DATA SCHEDULE NOTES:

- Current Zoning: NT - New Town
- Current & Proposed Use: S-1 (IBC), Special Purpose Industrial (NFPA), B - Business: Vehicle Refinishing and Repair
- Ground snow load: 30 psf
- Wind speed: 90 mph
- Seismic design: Category A
- Weathering: Severe
- Frost Line: 30"
- Termite: Moderate to heavy
- Decay: Slight to moderate
- Soil Bearing: 2,000 psf
- Floor load: 100 psf
- S-1 storage use is ordinary (moderate) hazard of contents.
- From IBC 1006.3.1, for aisles in rooms with two exits, emergency illumination is required.
- From IBC 1011.1, exit signs are required if more than 1 exit is required.
- Fire extinguishers are indicated on 1/SB-1.
- Tax Identification Number: 16-073040
- Automatic sprnkler system is required for building per IBC 903.2.9.1 (existing to remain) and is required for spray booth and ductwork per NFPA 33 (proposed, by others).

ABBREVIATIONS

- A: Air
AFF: Above Finished Floor
DS: Down Spout
CATV: Cable TV
CLR: Clear
CMU: Concrete Masonry Unit
CONC: Concrete
CONTIN: Continuous
E, EX: Existing
FE: Fire Extinguisher
LT: Light
MIN: Minimum
M: Motor
N: New
OC: On Center
OCC: Occupancy
OH: Overhead Door
OPNG: Opening
OPP: Opposite
PS: Paint Storage Cabinet
R: Relocated
REINF: Reinforced
RM: Room
T: Thermostat
TG: Tempered Glass
TYP: Typical
W: Water
WWF: Welded Wire Fabric
W./: With
Ø: Diameter
#: Number

DRAWING LIST

- CS-1 CONSTRUCTION NOTES, CODE REVIEW
AS-1 SITE PLAN
SB-1 BUILDING PLAN
SB-2 INTERIOR PIT AND FINISH PIT PLANS
SB-3 DEMOLITION, CONSTRUCTION PLANS
SB-4 INTERIOR ELEVATIONS
SB-5 DETAILS

CONSTRUCTION NOTES

- Check and verify all dimensions and conditions at the job site before starting the work. Notify the architect of any discrepancies or potential conflicts before proceeding with the work. Where discrepancies occur between various drawings obtain clarification from the architect before proceeding with the work.
- All dimensions are taken from face of wall or face of block unless noted otherwise. Dimensions are nominal.
- Do not scale drawings. Written dimensions have precedence over scaled dimensions.
- Finishes are to be as noted on the drawings.
- All work shall be done in accordance with the codes referenced in the general notes and all other local codes in effect at the time of construction.
- The contractor shall supply all necessary anchors, ties, clips, hangers, bolts and other fastening devices as required by code and practice.
- See sheets SB-1 through SB-5 for construction notes.
- Note that the Paint Spray Booth is a pre-engineered unit. The interior will be sprinklered. The system is to be designed for extra hazard (Group 2) occupancy per NFPA 13. The sprinkler design, calculations and plans shall be designed under the supervision of a registered professional engineer certified in fire protection engineering or a level iii certified engineering technician. See NFPA 1: 13.3.1. Connect booth to existing building sprinkler system.
- The Owner has stated that the total quantities of hazardous material storage at this site will be less than those listed in NFPA 33 and IBC Code Tables 307.1(1) and 307.1(2). The current quantities on-hand of paint, thinner, cleaner, hardeners and solvents is 80 gallons. The paint is stored in the existing paint mix room or in two flammable liquid storage cabinets in metal containers complying with NFPA 30. The paint used in the paint booth is only in quantities required for each individual application. See Code Review for listing of applicable Code sections.
- All spray booth equipment is to be ETL listed. See booth specifications on sheet SB-3 for certification codes.
- A General Permit to Construct is to be filed with the Maryland Department of the Environment for the new booth.
- The existing shop ventilation system complying with Table 403.3 for repair garages is to remain. See sheet SB-1.
- The spray booth is to be ventilated as per Chapters 7 and 8 of NFPA 33, NFPA 91 and IMC Section 510.
- Paint booth is also a drying room.
- Paint booth will contain intake pre-filters and Class II exhaust filters per ANSI/U.L. 90. Filters are EPA 6H compliant.
- Existing building sprinkler lines are located 18" minimum over the paint booth.
- The distance from the top of the booth to the underside of the roofing is 9'-0" minimum.
- Follow NFPA 30 for storage of flammable liquids. The paint storage in the paint booth is also to comply with NFPA 33.
- See sheet SB-1 for location of exit signs.
- Note: Scope of electrical work consists of connection of power from building panel to remote Control Panel mounted on paint booth (by others). See specifications on sheet SB-3 for detailed description of work.
- Paint booth will have supply air taken directly from the exterior and will exhaust directly to the exterior.

PRE-ENGINEERED PAINT BOOTH
INSTALLATION
TRISTATE COLLISION CENTER
8916 McGaw Court
COLUMBIA, MD 21045

ISSUED

MARCH 3, 2018

REVISED

DRAWING TITLE

COVER SHEET

SHEET

CS-1

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DIVISION



GREENE ARCHITECTURE

313 E. MELROSE AVE.
BALTIMORE, MD 21212
P. 410.532.7396
C. 410.241.0156
greene.architecture@gmail.com

PROFESSIONAL CERTIFICATION:
I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME, & THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE # 8783, EXPIRATION DATE 10/17/2019.

PRE-ENGINEERED PAINT BOOTH INSTALLATION
TRISTATE COLLISION CENTER
8916 McGaw Court
COLUMBIA, MD 21045

ISSUED

MARCH 3, 2018

REVISED

DRAWING TITLE

SITE PLAN

SHEET

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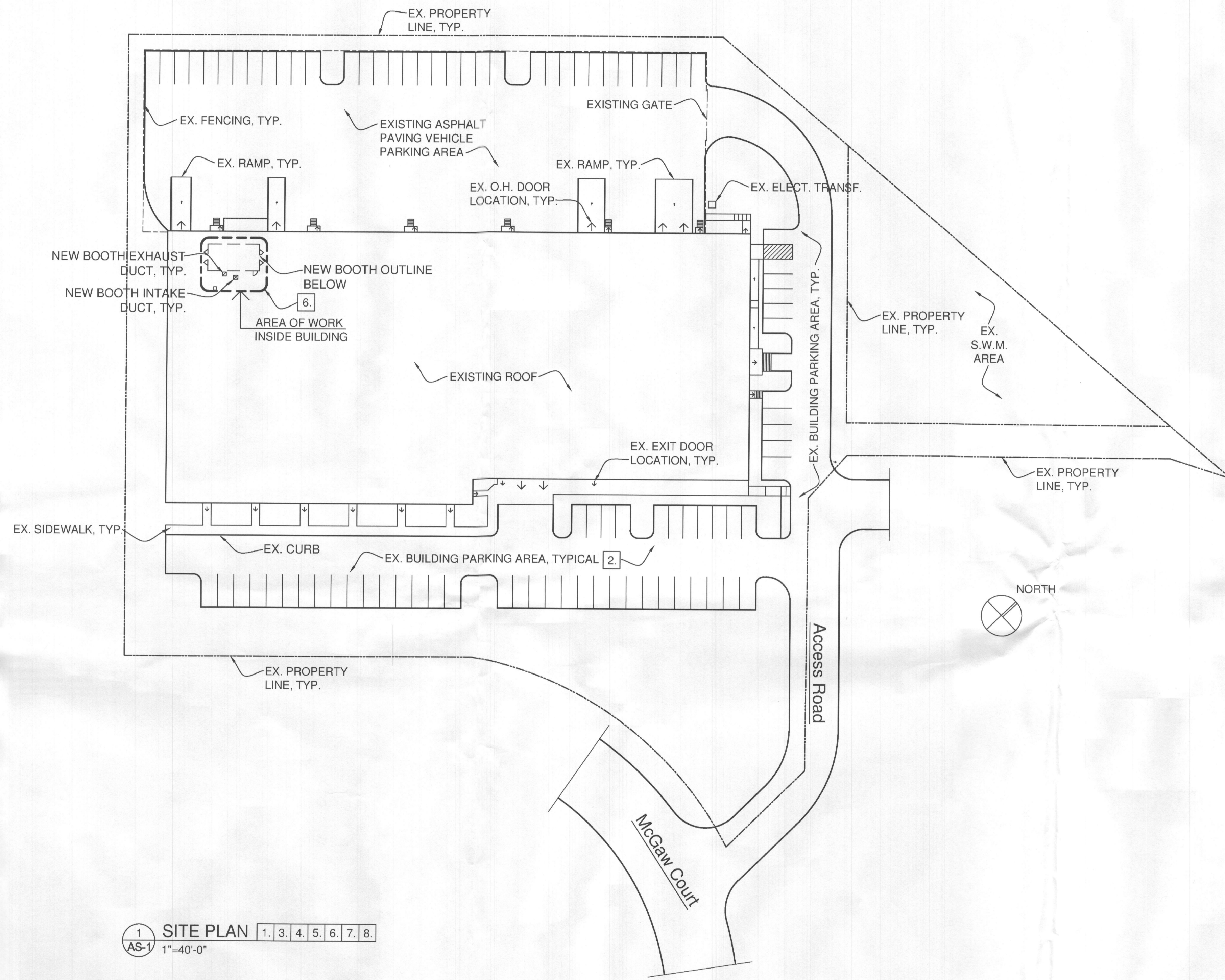
APR 05 2018
LICENSES & PERMITS DIVISION

AS-1

2 OF 7

SITE PLAN NOTES

1. SITE INFORMATION IS ILLUSTRATIVE AND IS SHOWN FOR REFERENCE ONLY. INFORMATION TAKEN FROM SITE PLAN DRAWING BY DAFT, MCCUNE AND WALKER, INC., TOWSON, MD APPROVED ON 4/21/82 AS SDP-82-90C.
2. PARKING SPACE LAYOUT, PARKING SPACE SIZE, HANDICAP PARKING AND ROADWAY LAYOUT ARE ALL EXISTING TO REMAIN.
3. APPROXIMATE FIRST FLOOR BUILDING AREA: 56,850 SF
4. TOTAL LOT G-2 AREA: 4.013 ACRES
5. PROPERTY TAX ACCOUNT INFORMATION: MAP 0036, GRID 0023, PARCEL 0366, LOT G2.
6. THE SCOPE OF WORK FOR THE EQUIPMENT INSTALLATION INCLUDES DUCTWORK AND VENT CAPS THAT EXTEND BEYOND THE TOP OF THE ROOF, AS INDICATED IN PLAN 1/SB-3. SEVERAL EXISTING VENT PIPES, CAPS AND DUCTWORK WILL ALSO BE REMOVED AND CAPPED AS PART OF THIS WORK. NO OTHER EXTERIOR OR SITE WORK IS PART OF THIS SCOPE OF WORK.
7. SEE 2/SB-3 FOR PROPOSED DIMENSIONED LOCATION OF DUCTWORK.
8. SEE SHEET SB-4 FOR ELEVATIONS OF BOOTH, DUCTWORK AND ROOF CURBS.



1 SITE PLAN 1, 3, 4, 5, 6, 7, 8.
AS-1 1"=40'-0"



GREENE ARCHITECTURE

313 E. MELROSE AVE.
BALTIMORE, MD 21212
P. 410.532.7396
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greene.architecture@gmail.com

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I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME, & THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE # 8783, EXPIRATION DATE 10/17/2019.

PRE-ENGINEERED PAINT BOOTH INSTALLATION
TRISTATE COLLISION CENTER
8916 McGaw Court
COLUMBIA, MD 21045

ISSUED

MARCH 3, 2018

REVISED

DRAWING TITLE

PARTIAL BUILDING PLAN

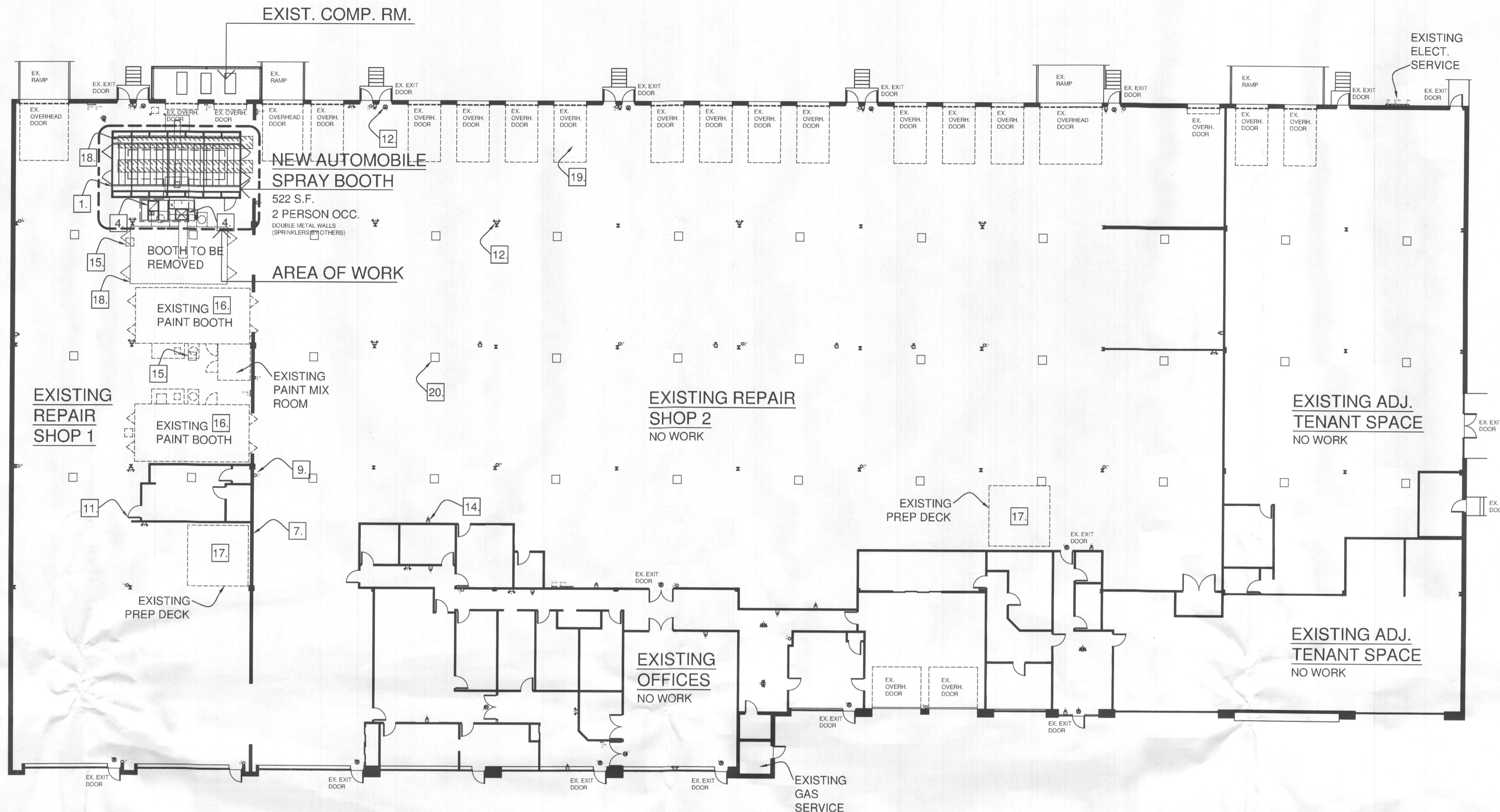
SHEET

SB-1

3 OF 7

CONSTRUCTION LEGEND

- ⊖ ELECTRICAL DROP
- M MOTOR LOCATION
- ⊙ AIR INLET
- GAS TRAIN INLET
- SEE CONSTRUCTION NOTES THIS PAGE FOR WORK DESCRIPTION
- C.P. CONTROL PANEL
- ⊗ EXIT SIGN
- ⊙ FE FIRE EXTINGUISHER
- ⊕ EMERGENCY LIGHT
- ⊖ ELECTRICAL PANEL
- ⊖ PS ELECTRICAL DISCONNECT
- ⊖ PS PAINT STORAGE CABINET
- ⊖ EQUIPMENT LIGHT
- ⊖ COMPRESSED AIR
- ⊖ HOSE BIB
- ⊖ RECEPTACLE
- ⊖ JUNCTION BOX
- ⊖ EXISTING DOOR
- ⊖ EL PA ELECTRICAL PANEL
- ⊖ V VISUAL/AUDIBLE STROBE
- ⊖ V VISUAL STROBE
- ⊖ P PULL STATION
- E = EXISTING
- N = NEW
- SEE CS-1 FOR OTHER ABBREVIATIONS



1 BUILDING PLAN 2, 3, 5, 6, 8, 10, 13, 17
SB-1 1/16"=1'-0"

GENERAL NOTES

- A. EXTENT OF WORK FOR THIS PROJECT IS REMOVAL OF EXISTING PAINT BOOTH, PREP DECK AND ASSOCIATED EQUIPMENT AND THE INSTALLATION OF A NEW PRE-ENGINEERED PAINT BOOTH AND ASSOCIATED EQUIPMENT.
- B. SEE SHEET SB-3 FOR DIMENSIONED LOCATION OF DUCTWORK.
- C. SEE SHEET SB-4 FOR ELEVATIONS OF DUCTWORK AND ROOF CURBS.
- D. CONTRACTOR TO VERIFY LOCATION OF ANY UNDERGROUND UTILITIES, STRUCTURAL ELEMENTS OR DRAIN LOCATIONS PRIOR TO ANY DEMOLITION OR CONSTRUCTION. NOTIFY ARCHITECT IF CONDITIONS PREVENT THE INSTALLATION OF BOOTH PITS INDICATED ON SHEET SB-2.
- E. SEE SHEET SB-3 FOR EXISTING EQUIPMENT TO BE REMOVED.
- F. SEE SHEET SB-3 FOR LOCATION OF LIGHTS TO BE REVIEWED FOR RELOCATION.
- G. CONTRACTOR TO VERIFY CLEARANCES OF EXISTING OVERHEAD UTILITIES WITH NEW WORK PRIOR TO INSTALLATION OF BOOTH.
- H. THE CONTRACTOR SHALL PROVIDE A CONTINUOUS DUST BARRIER AND SUPPORT AROUND THE AREA OF DEMOLITION AND CONSTRUCTION OF THE BOOTH PIT. THERE SHALL BE A NEGATIVE AIR PRESSURE INSIDE THE BARRIER AND AN AIR FILTRATION SYSTEM TO COLLECT DUST FROM WITHIN THE WORK AREA. DETAILS OF THE DUST BARRIER SHALL BE APPROVED BY THE TENANT.
- I. CONTRACTOR SHALL VERIFY THAT ANY ELECTRICAL WIRING OR UTILIZATION DEVICES OUTSIDE ANY OPENINGS AT AN ENCLOSED OR OPEN-FACED SPRAY ROOM ARE TO BE RATED FOR THE ZONE WHERE THEY ARE LOCATED AS PER NFPA 33, CHAPTER 6. THIS WILL INCLUDE ANY EXISTING OR NEW ELECTRICAL WIRING OR EQUIPMENT IN THOSE ZONES. SEE PLAN ON SB-3 FOR LOCATION ZONE AT NEW BOOTH.
- J. CONTRACTOR TO VERIFY TOTAL GAS SUPPLY, PRESSURE AND USAGE WITH GAS PROVIDER PRIOR TO CONSTRUCTION. CONTRACTOR TO VERIFY ELECTRICAL CAPACITY PRIOR TO CONSTRUCTION.
- K. SPRAY BOOTH IS ALSO DRYING ROOM.

CONSTRUCTION NOTES

(APPLY TO THIS SHEET ONLY)

1. INSTALL (1) NEW PRE-ENGINEERED PAINT SPRAY BOOTH, ASSOCIATED DUCTWORK, MECHANICAL SYSTEM AND PIT. THIS WORK WILL INCLUDE ELECTRICAL, GAS AND PLUMBING CONNECTIONS, BY OTHERS. SEE SHEET SB-2 FOR DEMOLITION OF EXISTING EQUIPMENT.
2. THERE WILL BE A SEPARATE PERMIT FILED FOR THE SPRINKLERS REQUIRED FOR THE PREFABRICATED SPRAY BOOTH (BY OTHERS).
3. SEE SPECIFICATIONS ON SHEET SB-3 FOR FULL DESCRIPTION OF THE SCOPE OF WORK FOR THE NEW PREFABRICATED PAINT SPRAY BOOTH.
4. NEW DUCTWORK ABOVE UNIT IS TO PENETRATE ROOF. SEE ELEVATIONS ON SHEETS SB-4 FOR DESCRIPTION AND DETAILS.
5. DUCTWORK TO BE FABRICATED TO CLEAR EXISTING EQUIPMENT AND ROOF STRUCTURE AS PER MANUFACTURER'S STANDARDS FOR DUCTWORK AND CODE REQUIREMENTS. MAINTAIN CODE CLEARANCES WITH EXISTING DUCTWORK AND DUCT CAPS.
6. SEE PAINT BOOTH PIT WORK ON SHEET SB-2.
7. EXISTING PARTITION TO REMAIN.
8. VERIFY DIMENSIONS TO EXISTING WALLS AND STRUCTURES CONFORM WITH ALL ASSOCIATED CODES PRIOR TO THE START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICTS.
9. EXISTING FIRE EXTINGUISHER LOCATION, TYPICAL.
10. EXISTING SHOP VENTILATION TO REMAIN.
11. EXISTING DOOR TO REMAIN, TYPICAL.
12. EXISTING EXIT SIGNS AND EMERGENCY LIGHTING TO REMAIN. TENANT TO VERIFY OPERATION.
13. SEE SHEET SB-4 FOR BOOTH ELEVATIONS.
14. EXISTING STROBE LOCATION, TYPICAL.
15. EXISTING ROOM HEATER TO REMAIN.
16. EXISTING BOOTHS TO REMAIN.
17. EXISTING PREP UNIT TO REMAIN.
18. REMOVE EXISTING EQUIPMENT AND DUCTWORK. SEE SHEET SB-3.
19. EXISTING OVERHEAD DOOR TO REMAIN, TYPICAL.
20. EXISTING SKYLIGHT ABOVE, TYPICAL.

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GENERAL CONSTRUCTION NOTES

- A. CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE STARTING THE WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- B. DIMENSIONS ARE FROM FACE OF GWB OR EXPOSED MASONRY UNLESS OTHERWISE NOTED.
- C. THOSE DIMENSIONS WHICH REQUIRE FIELD VERIFICATION ARE IDENTIFIED WITH ±. DIMENSIONS NOT SO NOTED ARE INTENDED TO BE HELD. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OR INSTALLATION OF BUILDING COMPONENTS.
- D. WHERE DISCREPANCIES OCCUR BETWEEN VARIOUS DRAWINGS OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- E. WHERE SPECIFIC DETAILING IS NOT SHOWN, EXECUTE THE CONSTRUCTION IN A SOUND, WORKMANLIKE MANNER CONSISTENT WITH THE OTHER DETAILING SHOWN.
- F. CONTRACTOR SHALL PROVIDE TEMPORARY DUST ENCLOSURE OF THE WORK AREA PRIOR TO DEMOLITION.
- G. PROTECT NEIGHBORING PROPERTIES AND FEATURES FROM DAMAGE WITH PROTECTION BOARDS AND FRAMING AS REQUIRED.
- H. COORDINATE DEMOLITION, PATCHING AND FINISHING WITH MECHANICAL, ELECTRICAL AND PLUMBING REQUIREMENTS.
- I. EXISTING SURFACES DISTURBED BY DEMOLITION OR NEW CONSTRUCTION SHALL BE PATCHED TO BE FLUSH WITH SURROUNDING SURFACES. THE FINISHED SURFACE IS TO BE LEVEL AND PLUMB TO WITHIN 1/8" IN 10 FEET, UNLESS OTHERWISE SPECIFIED. SEE 2/SB-3 FOR INFILL OF PREVIOUS PIT LOCATIONS.
- J. AT NEW PIT LOCATION, VERIFY CONDITION OF SUBSURFACE GROUNDWATER. PROVIDE PERIMETER DRAIN AND SUMP PUMP IF REQUIRED.
- K. CONTRACTOR SHALL CAREFULLY EXCAVATE SLAB FOR PIT TOWARD COLUMN TO DETERMINE EXTENT OF COLUMN FOOTING AND ANY OTHER STRUCTURAL ELEMENTS. DO NOT DISTURB FOOTING OR ANY OTHER STRUCTURAL ELEMENTS DURING DEMOLITION. SEE 1/SB-3 FOR DEMOLITION PLAN.

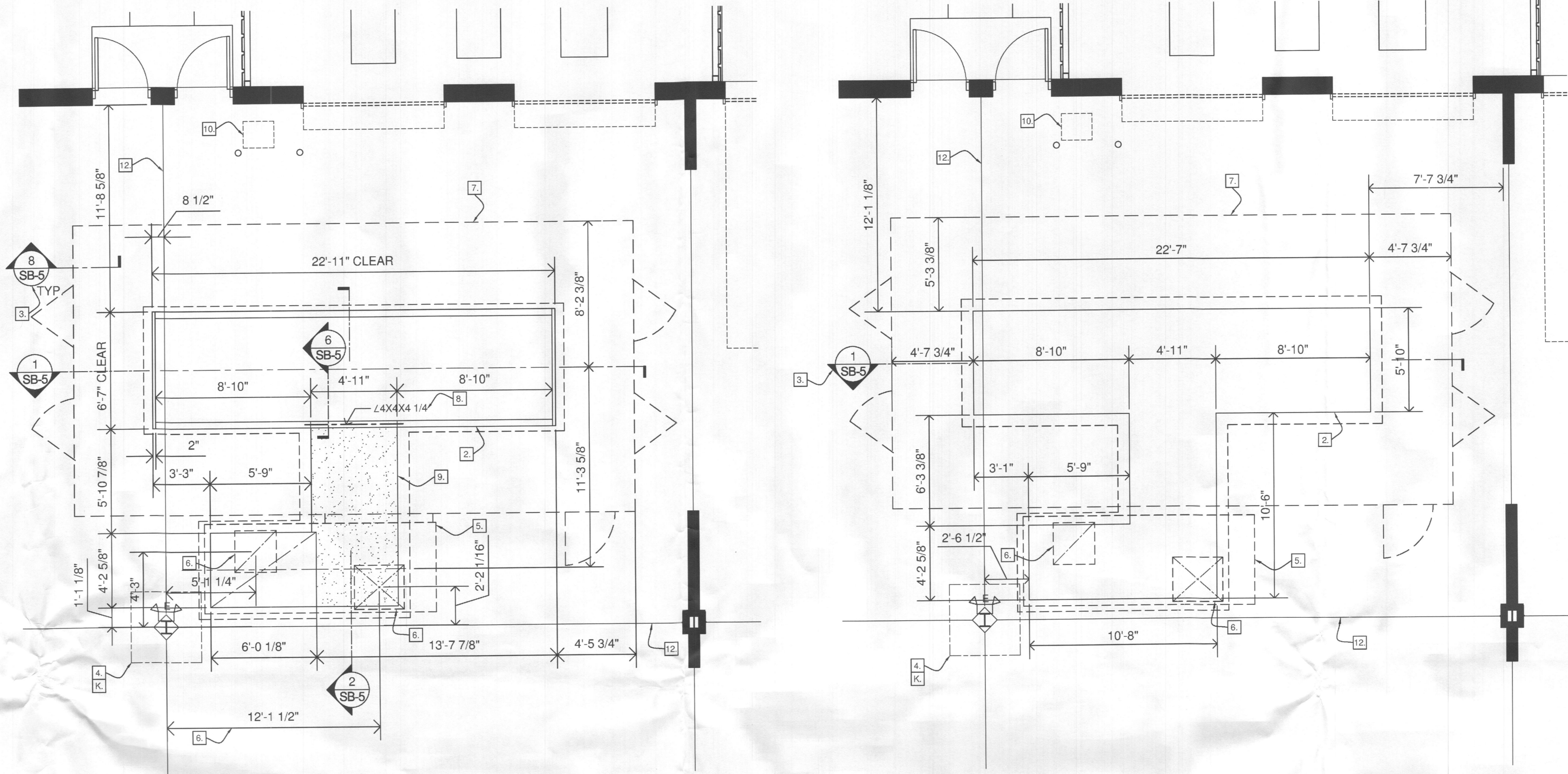
CONSTRUCTION NOTES
(APPLY TO THIS SHEET ONLY)

1. SEE 1/SB-3 FOR PLAN OF PAINT BOOTH, PREP UNIT, PITS, EQUIPMENT GRATING AND STEEL SUPPORT REMOVAL.
2. INSTALL NEW PAINT SPRAY BOOTH PIT AS INDICATED ON THIS SHEET. SEE SHEET SB-3 FOR BOOTH INSTALLATION.
3. SEE PIT DETAILS INDICATED ON SHEET SB-5.
4. EXISTING STRUCTURAL COLUMN AND FOOTING (VERIFY EXTENT).
5. OUTLINE OF NEW PAINT SPRAY BOOTH MECHANICAL EQUIPMENT.
6. LOCATION OF NEW VERTICAL DUCTWORK AT BOOTH.
7. OUTLINE OF NEW PAINT SPRAY BOOTH.
8. INSTALL STEEL ANGLE, TYPICAL. SEE DETAIL NOTED.
9. INSTALL CONCRETE SLAB OVER PREVIOUS PIT - SEE 8/SB-5 FOR DETAIL.
10. LOCATION OF EXISTING EQUIPMENT AND BOLLARDS TO REMAIN.
11. SEE SHEET SB-3 FOR PAINT BOOTH DIMENSIONS AND SPECIFICATIONS.
12. EXISTING CONTROL JOINT TO REMAIN.
13. SEE SHEET SB-3 FOR EQUIPMENT DEMOLITION IN THIS AREA.

ABBREVIATIONS

E EXISTING
N NEW

SEE SHEET CS-1 FOR OTHER ABBREVIATIONS.



1 FINISHED PIT PLAN 1, 3, 11, 12, 13
SB-2 1/4"=1'-0"

2 INTERIOR PIT PLAN 1, 3, 11, 12, 13
SB-2 1/4"=1'-0"

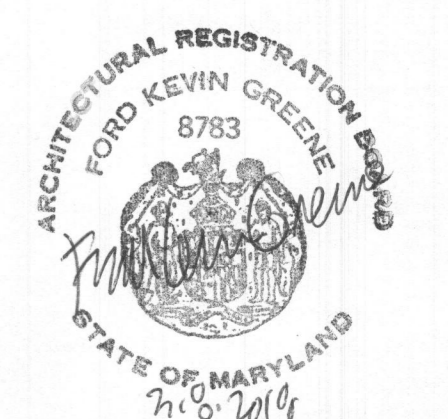
EXISTING BUILDING ELEMENTS AND FRAMING INDICATED ONLY - N.I.C.

CONSTRUCTION LEGEND

⊙	ELECTRICAL DROP
[M]	MOTOR LOCATION
⊗	AIR INLET
○	GAS TRAIN INLET
11	SEE CONSTRUCTION NOTES THIS PAGE FOR WORK DESCRIPTION
C.P.	CONTROL PANEL
⊗	EXIT SIGN
⊙FE	FIRE EXTINGUISHER
⊕	EMERGENCY LIGHT
⊕PA	ELECTRICAL PANEL
⊕	ELECTRICAL DISCONNECT
⊕PS	PAINT STORAGE CABINET

CONSTRUCTION LEGEND

⊕	EQUIPMENT LIGHT
⊕	COMPRESSED AIR
⊕	HOSE BIB
⊕	RECEPTACLE
⊕	JUNCTION BOX
⊕	SUPPLY DUCT
⊕	EXHAUST DUCT
⊕	FAN
⊕	PULL STATION
⊕	STROBE - VISUAL/AUDIBLE
⊕	STROBE - VISUAL
E	EXISTING
N	NEW
SEE CS-1 FOR OTHER ABBREVIATIONS	



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PRE-ENGINEERED PAINT BOOTH INSTALLATION
TRISTATE COLLISION CENTER
8916 McGaw Court
COLUMBIA, MD 21045

ISSUED

MARCH 3, 2018

REVISED

DRAWING TITLE
SPRAY BOOTH INTERIOR & FINISHED PIT PLANS

SHEET

RECEIVED
APR 05 2018
LICENSES & PERMITS DIVISION

SB-2

SPRAY BOOTH SPECIFICATIONS

EACH GARMAT 99830, 31' 3000 SPRAY BOOTH WILL REQUIRE:

- AT ELECTRICAL DROP, THE (27) 4-TUBE, 32 WATT, T-8 LIGHTING FIXTURES WILL REQUIRE TWO 110/277v, 20/10 amp CIRCUITS. 110v STANDARD, 277v OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.
- AT ELECTRICAL DROP, THE MOTORS WILL REQUIRE 208/230/460v, 110/100/50amp, THREE PHASE FOR TWO 15hp MOTORS. AN ACCELCURE UNIT WILL REQUIRE THE ADDITION OF 1.2 amps TO 230/208v CIRCUIT AND .6 amps TO 480v CIRCUIT FOR EACH 1/4 hp MOTOR. THIS INSTALLATION HAS (8) 1/4 hp MOTORS.
- ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO NEC (NATIONAL ELECTRICAL CODES). VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.
- ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO NFPA 33 (NATIONAL FIRE PROTECTION ASSOCIATION), CURRENT EDITION.
- REMOTE CONTROL PANEL TO BE PLACED AT ONES' DISCRETION AND NOT TO BE WITHIN 3' OF BOOTH OPENING, IT SHALL BE IN COMPLIANCE TO THE CODES OF THE LOCAL JURISDICTION OF THE INSTALLATION SITE.
- COMPRESSED AIR TO THE AIR INLET AT THE CONTROL PANEL IS TO BE TWO TO THREE CUBIC FEET PER MINUTE OF AIR AT 60 psi MAXIMUM. FOR FINISHING APPLICATIONS ALLOW AN EXTRA 12 TO 14 CUBIC FEET PER MINUTE.
- BURNER SIZE: 1,500,000 btu.
- GAS CAPACITY TO PROVIDE FOR RATED btu AT GAS TRAIN INLET, A MINIMUM GAS PRESSURE OF 1/4 psi IS REQUIRED, A MAXIMUM OF 1/2 psi IS PREFERRED.
- SUPPORTING SURFACE FOR BOOTH AND MIXING ROOM TO BE LEVEL +/- 1/8"
- ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO NFPA 33, CURRENT EDITION.
- MEANS OF EGRESS TO CONFORM TO NFPA 101, CURRENT EDITION.
- A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.
- HEIGHT OF CABIN AND MECHANICAL UNIT ARE 10'-10", CABIN MODEL NO. 99830X. PAINT BOOTH WALLS ARE DOUBLE SKIN 20 GAUGE METAL INSULATED PANELS.
- PROVIDE FOR UNOBSTRUCTED EXPLOSION RELIEF IN ACCORDANCE TO NFPA 86, CURRENT EDITION.
- AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE PROVIDED BY OTHERS, IN ACCORDANCE WITH NFPA 33, CURRENT EDITION, CHAPTER 9.

GENERAL NOTES

- CONTRACTOR SHALL VERIFY THAT ANY ELECTRICAL WIRING OR UTILIZATION DEVICES OUTSIDE ANY OPENINGS AT AN ENCLOSED SPRAY BOOTH ARE TO BE RATED FOR THE ZONE WHERE THEY ARE LOCATED AS PER NFPA 33, CHAPTER 6. THIS WILL INCLUDE ANY EXISTING OR NEW ELECTRICAL WIRING OR EQUIPMENT IN THOSE ZONES.
- CONTRACTOR TO VERIFY EXISTING GROUND WATER SOURCES PRIOR TO EXCAVATION OF PITS. IF REQUIRED, CONTRACTOR SHALL PROVIDE AND INSTALL PIT SUMP PUMPS TO INSURE PITS STAY DRY. CONNECT PUMPS TO ELECTRICAL POWER AND STORM SEWER.
- ALL ELECTRICAL WIRING INSIDE BOOTH TO BE CLASS 1, DIVISION 1. ALL WIRING 5'-0" HORIZONTAL OR WITHIN 3'-0" VERTICAL OF ANY BOOTH OR MIX ROOM OPENING TO BE CLASS 1, DIVISION 2. OPEN FLAMES OR SPARKS ARE NOT ALLOWED WITHIN 20'-0" OF ANY BOOTH OR MIX ROOM OPENING. SEE SHEET E-1 FOR FULL SCOPE OF ELECTRICAL FEEDER WORK (BY OTHERS).
- ALL DUCTWORK TO BE SEALED SHEET METAL PER NFPA 33.
- NOTE: ANY PAINT STORED IN PAINT SPRAY BOOTHS IS TO BE REMOVED PRIOR TO DRYING CYCLE.
- SPRAY BOOTH IS ALSO A DRYING ROOM.

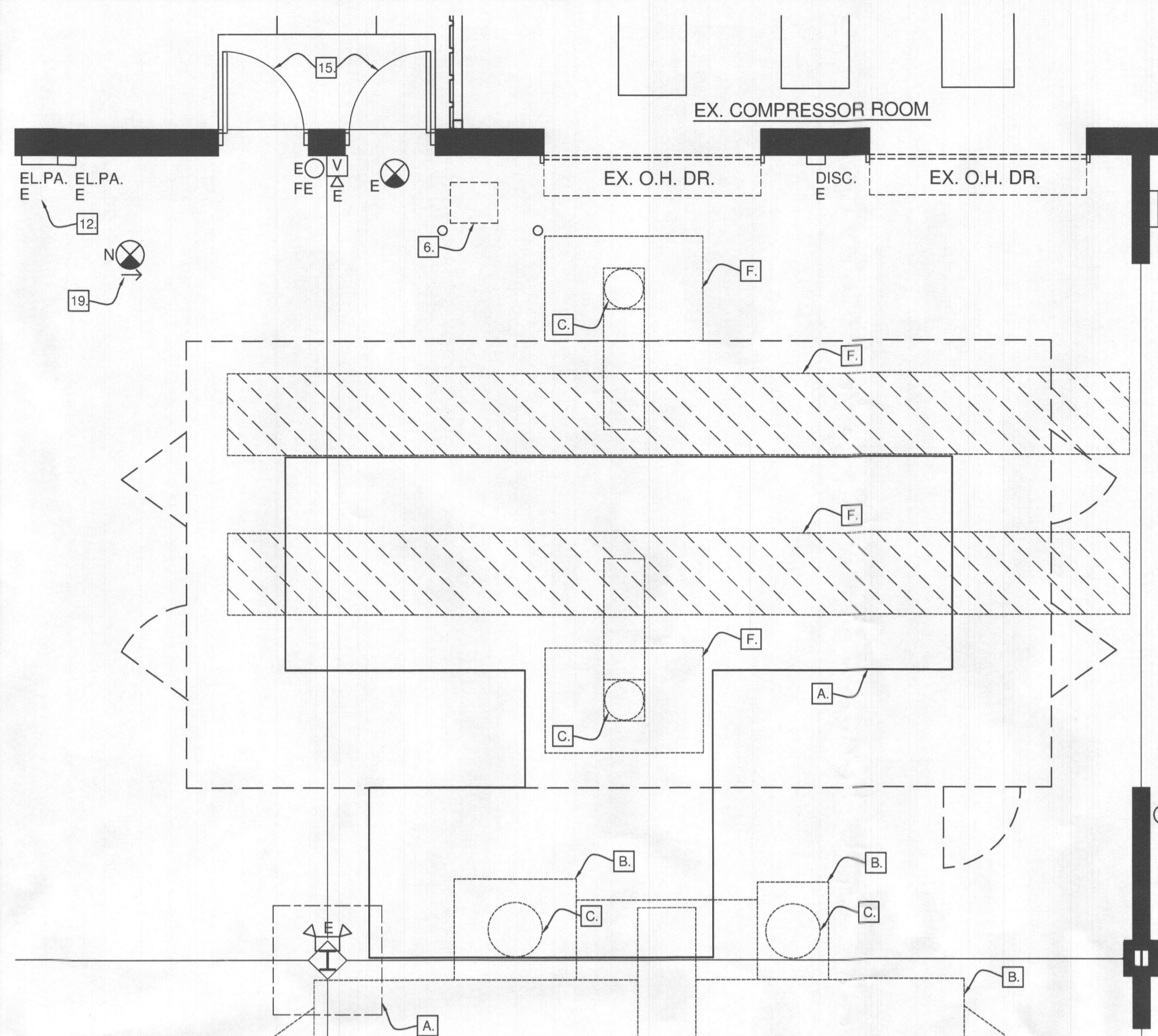
MECHANICAL EQUIPMENT

PLEASE NOTE THAT THE PAINT SPRAY BOOTH MAKE-UP AIR UNIT AND EXHAUST FAN LISTED IN THE SPECIFICATIONS ABOVE ARE EACH RATED AT 18,000 CFM. THIS EQUATES OUT TO 4 COMPLETE AIR CHANGES PER MINUTE FOR THE PAINT SPRAY BOOTH. BOOTH AIR CHANGES TO COMPLY WITH NFPA 33.

NOTE

- SEE SHEET M-1 FOR DESCRIPTION OF EQUIPMENT GAS SERVICE WORK.

Optional Duct Caps			Duct Penetration Opening		
Standard	Intake	Exhaust	Standard	Intake	Exhaust
Tier/Chinook	25 Sq. In.	25 Sq. In.	Tier/Chinook	28 Sq. In.	28 Sq. In.
Frontier	30 Sq. In.	25 Sq. In.	Frontier	33 Sq. In.	28 Sq. In.
10 hp / 500 Fan	30 Sq. In.	25 Sq. In.	10 hp / 500 Fan	33 Sq. In.	28 Sq. In.
15 hp / 560 Fan	32 Sq. In.	28.5 Sq. In.	15 hp / 560 Fan	35 Sq. In.	31.5 Sq. In.
20-25 hp / 630 Fan	42 Sq. In.	32 Sq. In.	20-25 hp / 630 Fan	45 Sq. In.	35 Sq. In.



1 DEMOLITION PLAN 2, 3, 4, 5, 6, 7, 8, 11, 15, 16
SB-3 1/4"=1'-0"

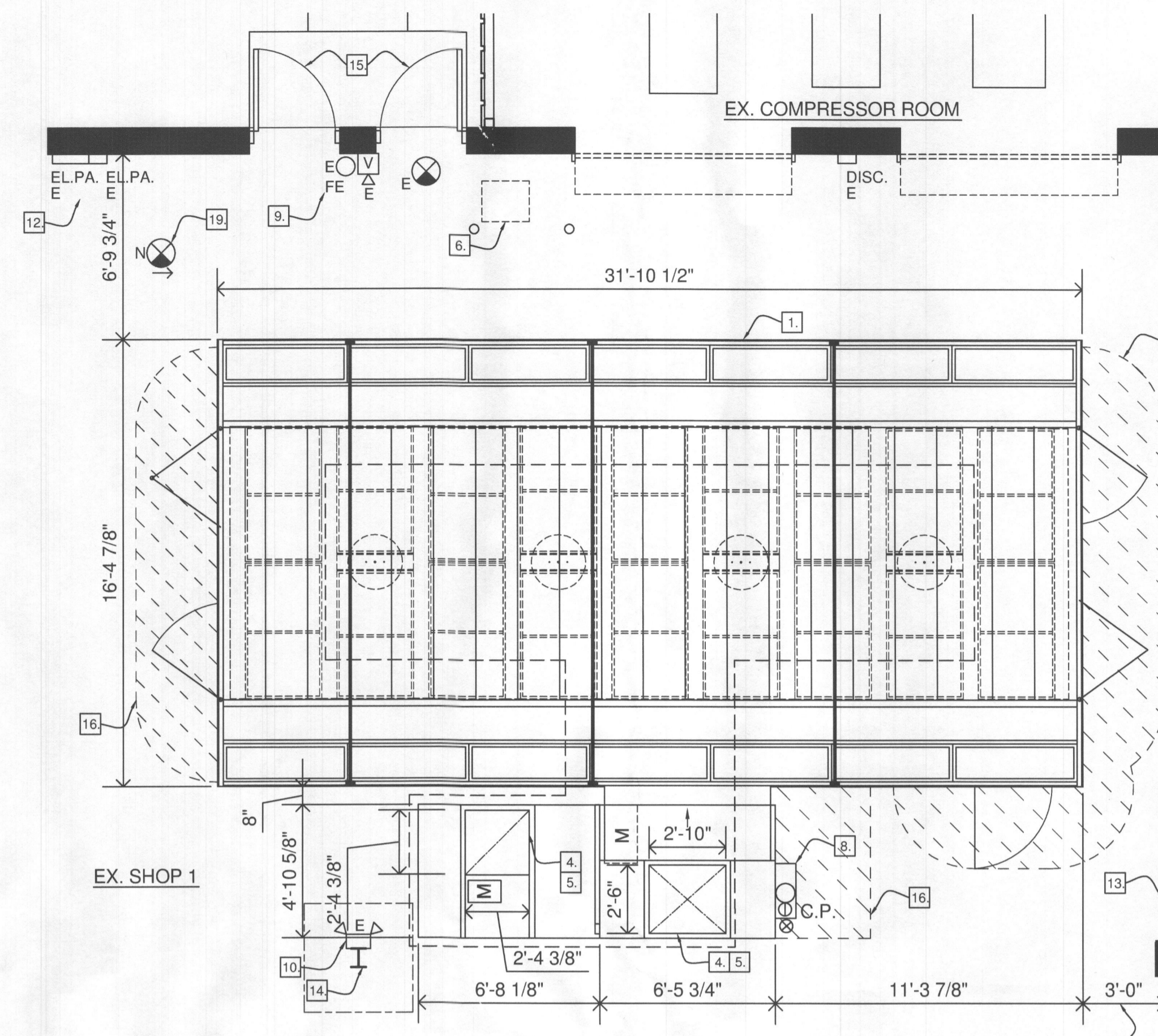
GENERAL DEMOLITION NOTES

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- SEE OTHER DRAWINGS FOR ADDITIONAL DEMOLITION WORK. CUT AND PATCH ALL EXISTING CONSTRUCTION WHERE REQUIRED BY STRUCTURAL/MECHANICAL/ELECTRICAL OR OTHER WORK.
- ALL PATCHING SHALL BE FLUSH WITH SURROUNDING SURFACES AND LEVEL WITHIN TOLERANCES SPECIFIED FOR THE SPECIFIC MATERIAL. IF MATERIAL IS NOT SPECIFIED, MAINTAIN EXISTING PLANES WITHIN 1/8" IN 10 FEET, NON-CUMULATIVE.
- THE ITEMS IDENTIFIED TO BE REMOVED REPRESENT THE MAJOR ITEMS ONLY. ALL OTHER ITEMS, THAT REQUIRE REMOVAL TO COMPLETE THE WORK, SHALL ALSO BE REMOVED.
- KEEP WORK AREAS CLEAN AT ALL TIMES. CONSTRUCTION MATERIALS ARE TO BE STORED AT LOCATIONS DETERMINED BY OWNER. PROTECT ALL FINISHES. REPAIR DAMAGED FINISHES UPON COMPLETION OF WORK. PROVIDE DUST ENCLOSURE OF PIT WORK AREA.

DEMOLITION NOTES

(APPLY TO 1/SB-3 THIS SHEET ONLY)

- REMOVE CONCRETE SLAB FOR NEW PIT. SEE SHEET SB-2 FOR PIT DIMENSIONS AND SHEET SB-5 FOR DESCRIPTION OF PIT WALLS AND FOOTING. EXTENT OF SLAB DEMOLITION INDICATED TO INCLUDE EXTENT OF NEW FOOTING - VERIFY EXISTING ASSUMED COLUMN FOOTING AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF NEW WORK.
- REMOVE EQUIPMENT AS INDICATED ON 1/SB-3.
- REMOVE EXISTING DUCTWORK, CAP, CURB AND FLASHING AT ROOF OPENING.
- RELOCATE ELECTRICAL LIGHTS, CONDUIT OR SWITCHES AS REQUIRED BY INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING EQUIPMENT.
- REMOVE ROOF DECKING, ROOFING AND OTHER OBSTRUCTIONS IN ORDER TO INSTALL NEW INTAKE AND EXHAUST DUCT ABOVE, AS PER ROOFING AND PAINT BOOTH MANUFACTURER'S RECOMMENDATIONS. SEE SHEET SB-4.
- REMOVE GRATES, STEEL STRUCTURE AND STEEL EDGING ON EXISTING PITS, DUCTWORK ABOVE PREVIOUS PREP DECK.
- EQUIPMENT AND BOLLARDS TO REMAIN.



2 CONSTRUCTION PLAN 2, 3, 6, 8, 11, 15, 16
SB-3 1/4"=1'-0"

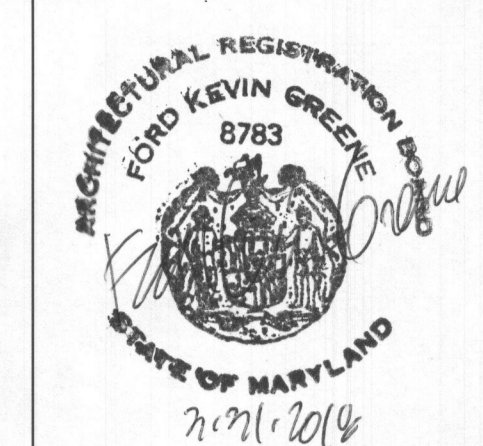
CONSTRUCTION LEGEND

- ⊖ ELECTRICAL DROP
- [M] MOTOR LOCATION
- ⊗ AIR INLET
- GAS TRAIN INLET
- 11 SEE CONSTRUCTION NOTES THIS PAGE FOR WORK DESCRIPTION
- C.P. CONTROL PANEL
- ⊗ EXIT SIGN
- ⊗ FFE FIRE EXTINGUISHER
- ⊗ EMERGENCY LIGHT
- EL.PA. ELECTRICAL PANEL
- ⊗ ELECTRICAL DISCONNECT
- PS PAINT STORAGE CABINET
- EQUIPMENT LIGHT
- ⊗ COMPRESSED AIR
- ⊗ HOSE BIB
- ⊗ RECEPTACLE
- ⊗ JUNCTION BOX
- ⊗ SUPPLY DUCT
- ⊗ EXHAUST DUCT
- ⊗ FAN
- ⊗ PULL STATION
- ⊗ STROBE - VISUAL/AUDIBLE
- ⊗ STROBE - VISUAL
- E = EXISTING
- N = NEW
- SEE CS-1 FOR OTHER ABBREVIATIONS

CONSTRUCTION NOTES

(APPLY TO 2/SB-3 THIS SHEET ONLY)

- INSTALL NEW PREFABRICATED PAINT SPRAY BOOTH, ASSOCIATED DUCTWORK AND MECHANICAL SYSTEM. THIS WORK WILL INCLUDE ELECTRICAL, GAS AND PLUMBING CONNECTIONS (UNDER A SEPARATE CONTRACT, BY OTHERS).
- THERE WILL BE A SEPARATE PERMIT FILED FOR THE SPRINKLERS REQUIRED FOR THE PREFABRICATED SPRAY BOOTH (BY OTHERS). CONNECT TO EXISTING BUILDING SYSTEM.
- SEE SPECIFICATIONS FOR FULL DESCRIPTION OF THE SCOPE OF WORK (THIS SHEET).
- NEW DUCTWORK ABOVE UNIT TO PENETRATE ROOF. SEE ELEVATIONS ON SHEET SB-4 FOR DESCRIPTION AND SEE SHEET SB-5 FOR ROOF DETAILS. PROVIDE CLEARANCES BETWEEN ALL DUCT INLET AND OUTLET LOCATIONS AS REQUIRED BY CODE. DUCTWORK TO BE FABRICATED TO CLEAR EXISTING EQUIPMENT AND ROOF STRUCTURE AS PER MANUFACTURER'S STANDARDS AND CODE REQUIREMENTS. SEE 1/SB-2 FOR DIMENSIONS OF DUCTWORK AT BOOTH. ROUTE DUCTWORK THROUGH STRUCTURAL ELEMENTS AS PER MANUFACTURER'S RECOMMENDATIONS AND PER CODE. SEE SHEET SB-4.
- CONTRACTOR TO RELOCATE ANY LIGHTS, BRACING, CONDUIT OR PIPING IN ORDER TO PROPERLY INSTALL DUCTWORK. SEE 2/SB-3.
- SEE OTHER WORK ON SHEETS SB-2 AND SB-4.
- VERIFY DIMENSIONS TO EXISTING WALLS AND STRUCTURES CONFORM WITH ALL ASSOCIATED CODES PRIOR TO THE START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICTS.
- CONNECT NEW BOOTH TO EXISTING GAS, ELECTRIC AND AIR. SEE SPECIFICATIONS FOR REQUIREMENTS (THIS SHEET).
- EXISTING FIRE EXTINGUISHERS TO REMAIN AS SHOWN.
- SHOP EMERGENCY LIGHTING TO REMAIN AS INDICATED.
- EXISTING SHOP MECHANICAL SUPPLY AIR AND EXHAUST TO REMAIN.
- EXISTING ELECTRICAL PANEL LOCATIONS. CONNECT NEW BOOTH CONTROL PANEL TO BUILDING ELECTRICAL PANEL.
- EXISTING PARTITION TO REMAIN.
- EXISTING COLUMN TO REMAIN.
- EXISTING SHOP DOORS TO REMAIN.
- EXTENT OF CLASS 1, DIVISION 2 ELECTRICAL AREA. SEE GENERAL NOTE 'D'.
- ADD EXIT SIGN. CONNECT TO EMERGENCY LIGHTING CIRCUIT.
- FILL PREVIOUS PIT LOCATION (VERIFY EXTENT AFTER DEMOLITION OF EQUIPMENT). SEE 8/SB-5 FOR CONSTRUCTION DETAIL.
- SEE 7/SB-5 FOR ROOF CAP DETAIL AT PREVIOUS OPENINGS. SEE DEMO NOTE 3.



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PRE-ENGINEERED PAINT BOOTH INSTALLATION
TRISTATE COLLISION CENTER
8916 McGaw Court
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ISSUED
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DEMOLITION, SPRAY BOOTH PLANS, SPECIFICATIONS
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SB-3
5 OF 7

ELEVATION NOTES
(APPLY TO ELEVATIONS ONLY)

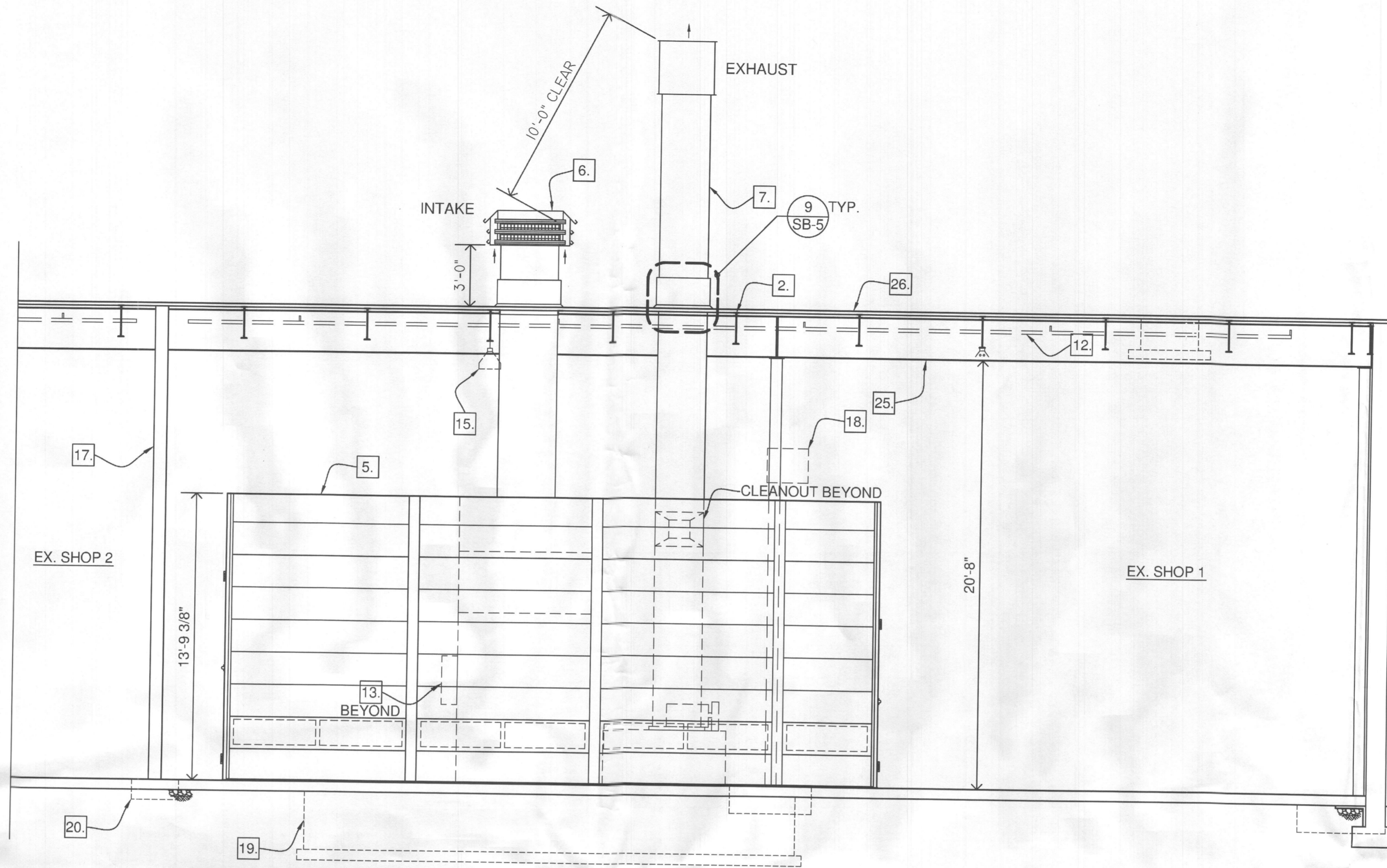
1. SEE SHEET SB-3 FOR SPRAY BOOTH SPECIFICATIONS.
2. VERIFY CLEARANCES OF STRUCTURAL ELEMENTS PRIOR TO COMMENCEMENT OF WORK. NOTIFY ARCHITECT OF ANY CONFLICTS. RELOCATE BAR JOIST BRACING AS REQUIRED.
3. SEE PLAN ON SB-3 FOR ELECTRICAL, GAS AND PLUMBING CONNECTIONS (UNDER A SEPARATE CONTRACT, BY OTHERS).
4. EXISTING SHOP MECHANICAL SYSTEM TO REMAIN.
5. INSTALL NEW PAINT SPRAY BOOTH.
6. INSTALL NEW INTAKE DUCT AND ROOF CURB. SEE 3/SB-4.
7. INSTALL NEW EXHAUST DUCT AND ROOF CURB. SEE 3/SB-4.
8. SEE SHEET SB-2 FOR DEMO OF PREVIOUS BOOTH AND DUCTWORK. CAP OPENING. SEE 7/SB-5.
9. TIE BOOTH ELECTRICAL INTO EXISTING ELECTRICAL PANEL. SEE ELECTRICAL DRAWINGS. VERIFY CLEARANCES PER NFPA 33.
10. ALL EXISTING SHOP DOORS AND FRAMES TO REMAIN.
11. ALL EXISTING SHOP STROBES AND EMERGENCY LIGHTS TO REMAIN.
12. VERIFY EXISTING SPRINKLER PIPING AND HEAD LOCATION - VERIFY CLEARANCE WITH NEW BOOTH CONSTRUCTION (MINIMUM 18" CLEARANCE ABOVE EQUIPMENT). CONNECT PAINT SPRAY BOOTH SPRINKLER SYSTEM INTO EXISTING BUILDING SPRINKLER SYSTEM. NEW BOOTH SPRINKLER SYSTEM BY OTHERS (N.I.C.).
13. CONTROL PANEL LOCATION. SEE NOTE 9.
14. NOTE: GARMAT TO PROVIDE INTAKE, EXHAUST CAPS AND STRAIGHT DUCTING SECTIONS ONLY. ALL PENETRATIONS FLASHING, CURBS AND DUCTING OFFSETS ARE TO BE PROVIDED BY OTHERS. SEE SHEET SB-3 FOR DUCT CAP SIZES.
15. VERIFY EXISTING LIGHTS TO REMAIN WITH NEW CONSTRUCTION. RELOCATE LIGHTS AS DIRECTED BY TENANT.
16. EXISTING COLUMN AND FOOTING. VERIFY CLEARANCES WITH NEW PIT CONSTRUCTION. SEE NOTES ON SHEET SB-2.
17. EXISTING C.M.U. WALL.
18. EXISTING SHOP HEATING UNIT TO REMAIN. VERIFY CLEARANCES PER GENERAL NOTE 'D' ON SHEET SB-3.
19. EXTENT OF BOOTH PIT BEYOND.
20. EXTENT OF WALL FOOTING BEYOND.
21. OUTLINE OF EXISTING BOOTH AND DUCT BEYOND.
22. EXISTING GAS LINE TO REMAIN (VERIFY).
23. EXISTING STEEL BAR JOIST TO REMAIN.
24. RELOCATE COMPRESSED AIR SUPPLY LINE AS REQUIRED.
25. EXISTING STEEL BEAM TO REMAIN.
26. EXISTING ROOFING TO REMAIN.

CONSTRUCTION LEGEND

11. SEE CONSTRUCTION NOTES THIS PAGE FOR WORK DESCRIPTION

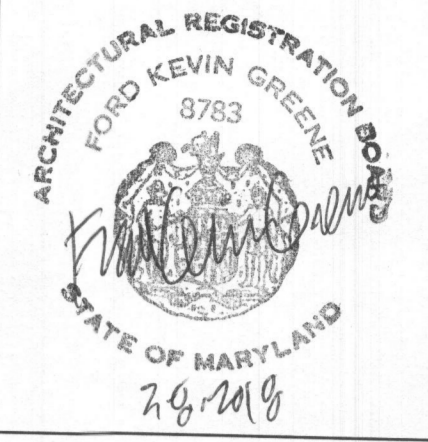
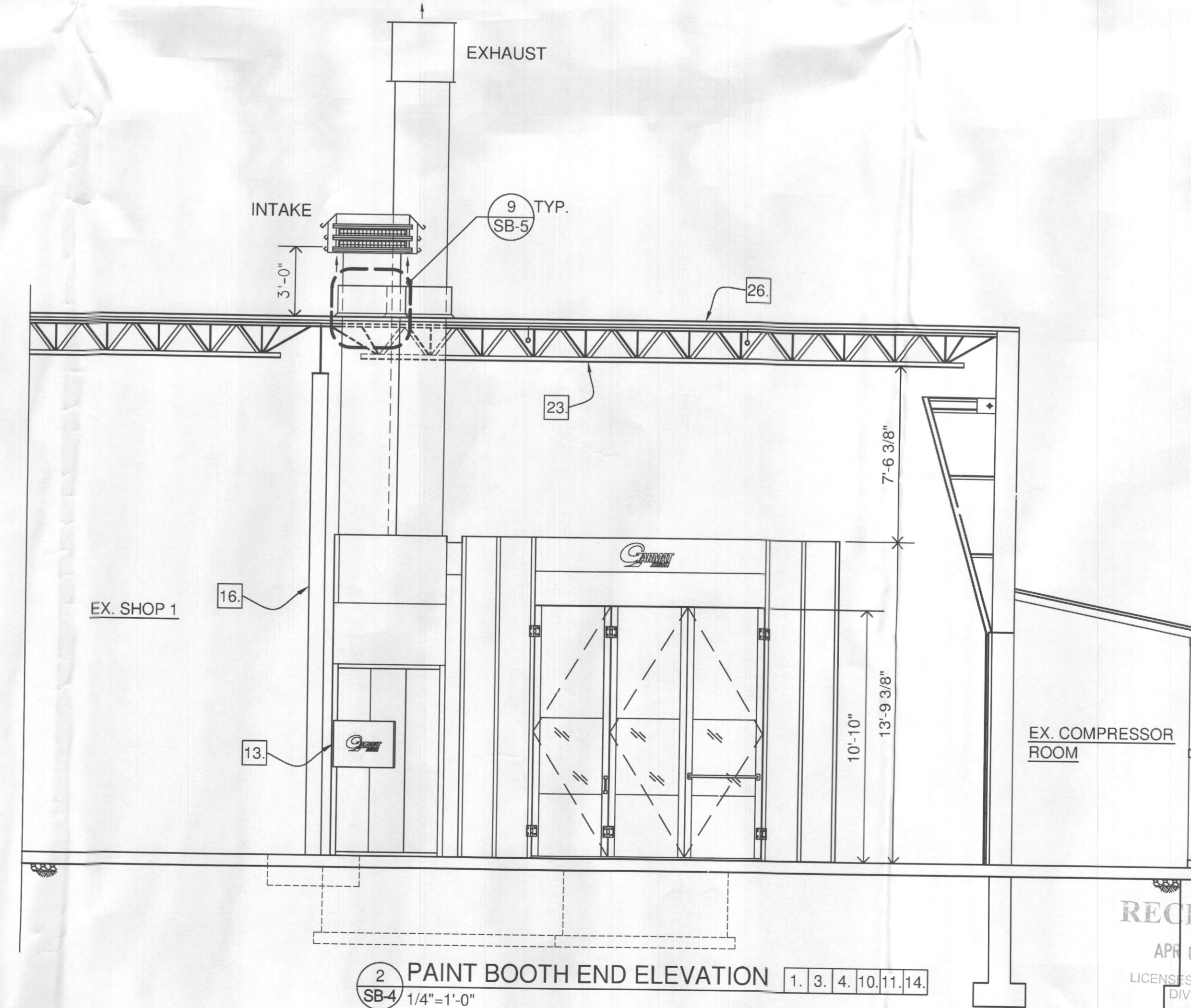
C.P. CONTROL PANEL

1 PAINT BOOTH SIDE ELEVATION 1, 3, 4, 10, 11, 14, 26
SB-4 1/4"=1'-0"



BUILDING ELEMENTS AND FRAMING INDICATED FOR REFERENCE ONLY - N.I.C.

2 PAINT BOOTH END ELEVATION 1, 3, 4, 10, 11, 14, 26
SB-4 1/4"=1'-0"



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BOOTH ELEVATIONS

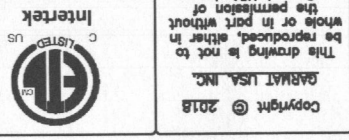
SHEET

SB-4

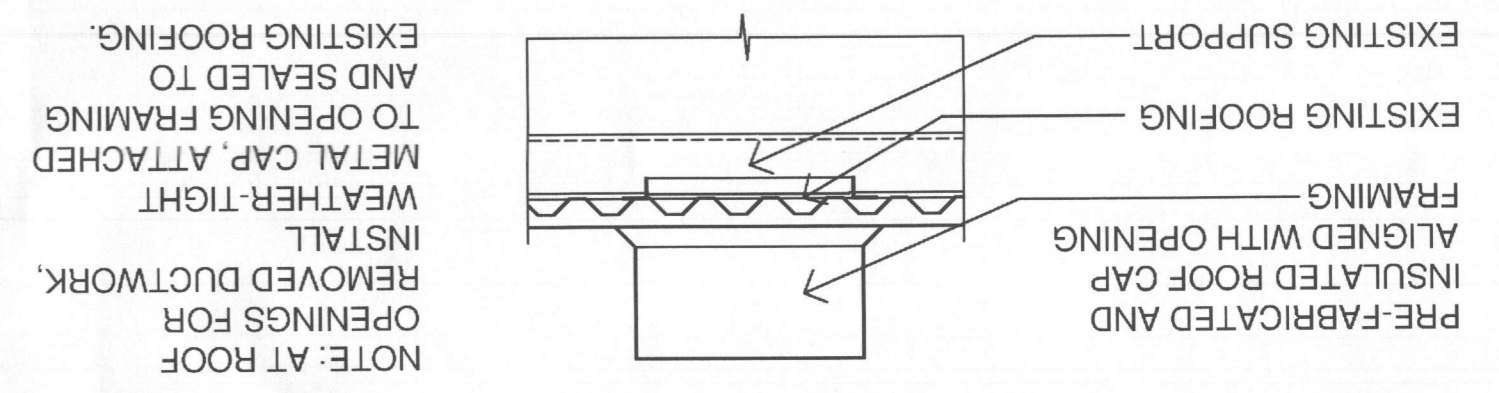
6 OF 7

CUSTOMER TRISTATE	GARMAT USA FAX (303)781-2653 PHONE (303)781-6502 1401 W. STARBUCK AVE. ENGLEWOOD, CO 80110	Copyright © 2018 GARMAT USA, INC. This drawing is not to be reproduced, either in whole or in part, without the permission of Garmat USA, Inc.	Intertek	GARMAT 99830 SPRAY BOOTH AND MIX ROOM ELEVATIONS	SHEET SIZE - D REVISION - 0 DRAWING NO. TRM227C0	DATE 2/2/18 SCALE 1/4"=1'-0" C SHEET NO.
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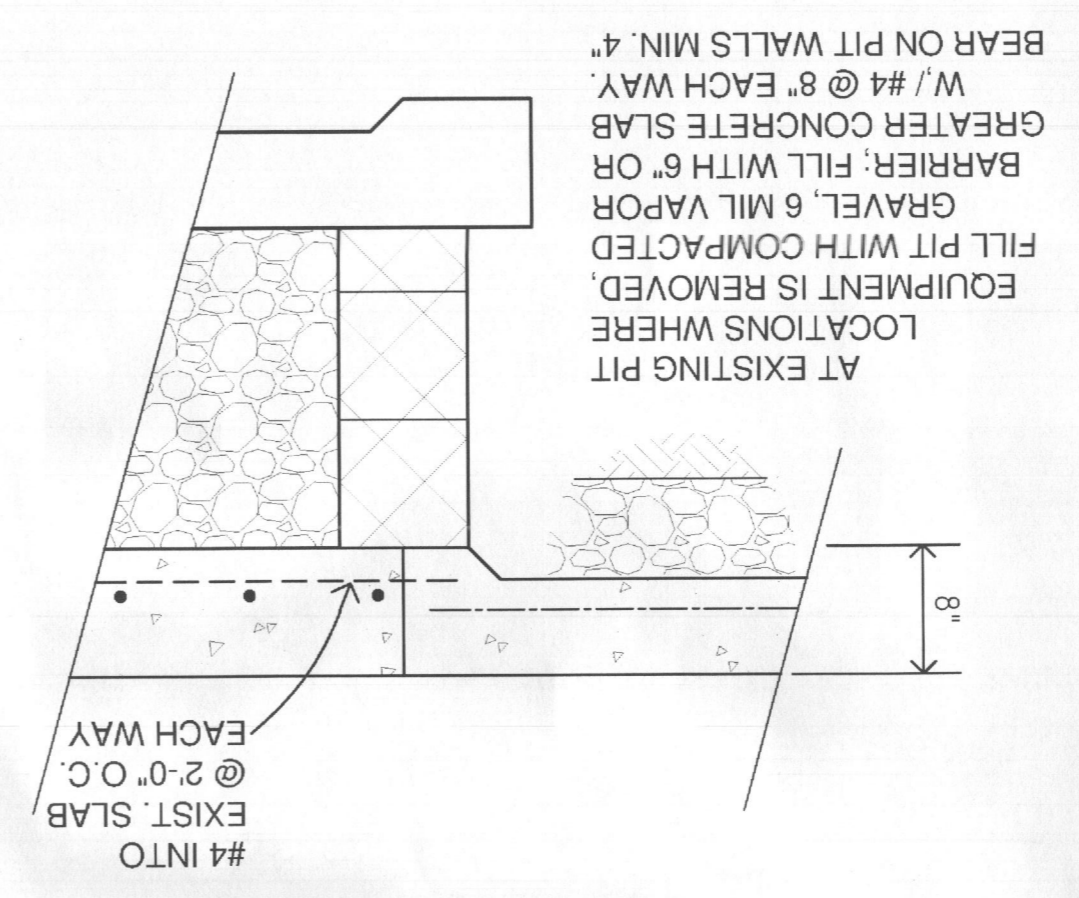
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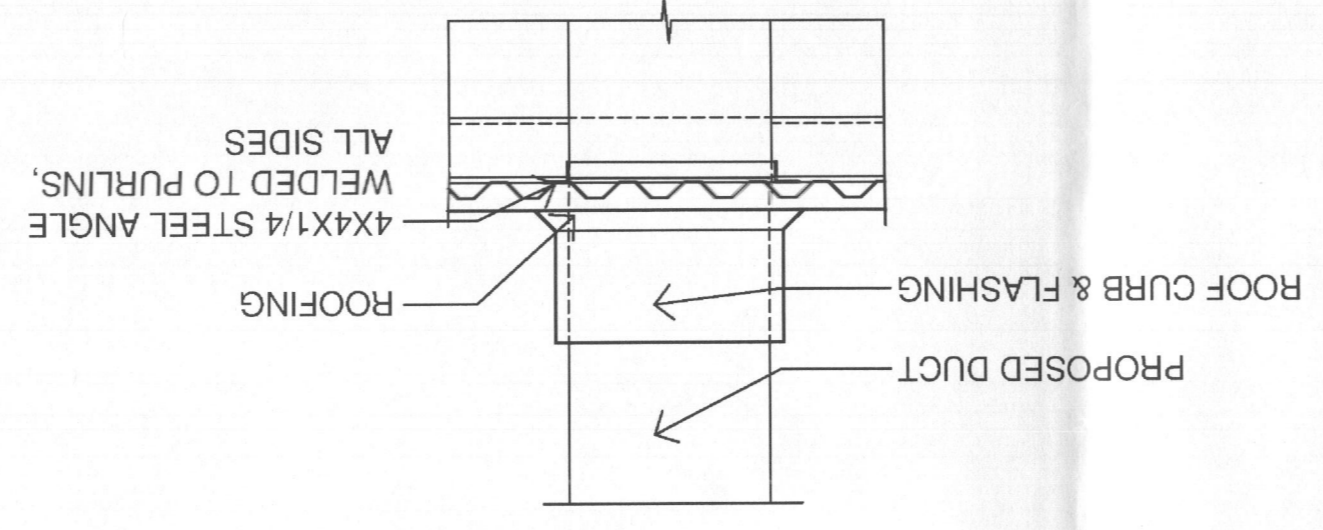
7 CAP DETAIL
NO SCALE



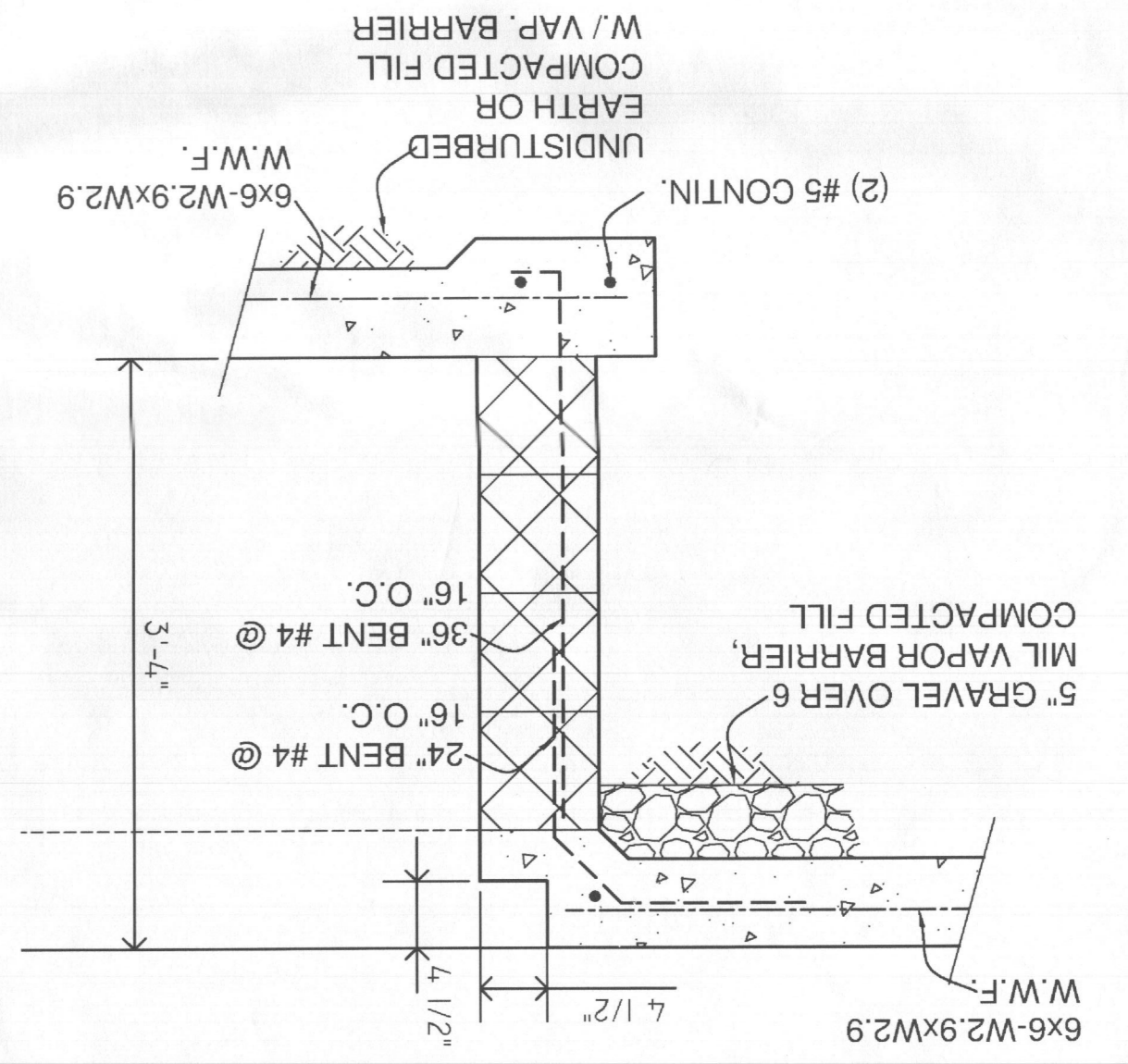
8 CONCRETE DETAIL
1"=1'-0"



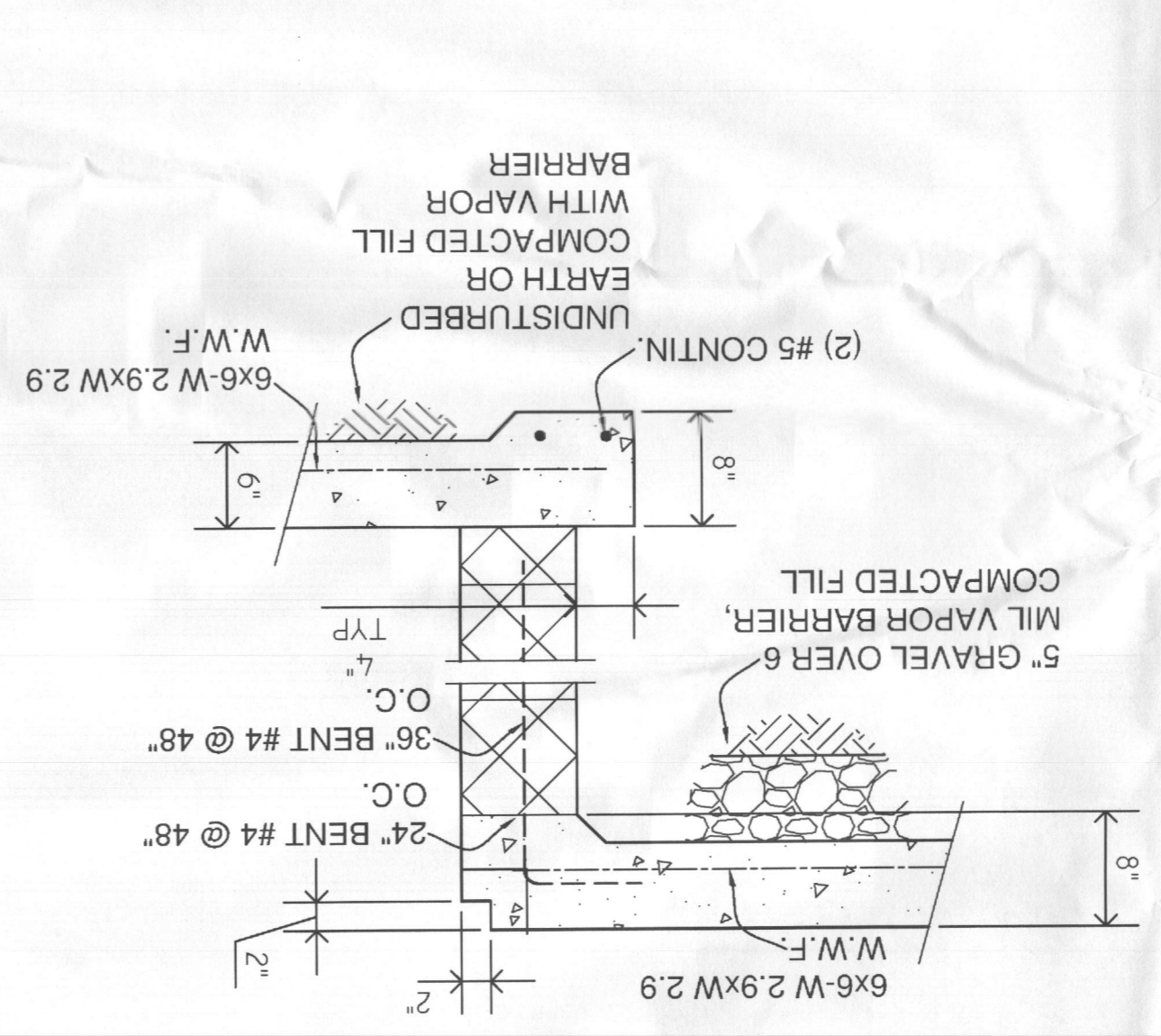
9 ROOF DETAIL
1/4"=1'-0"



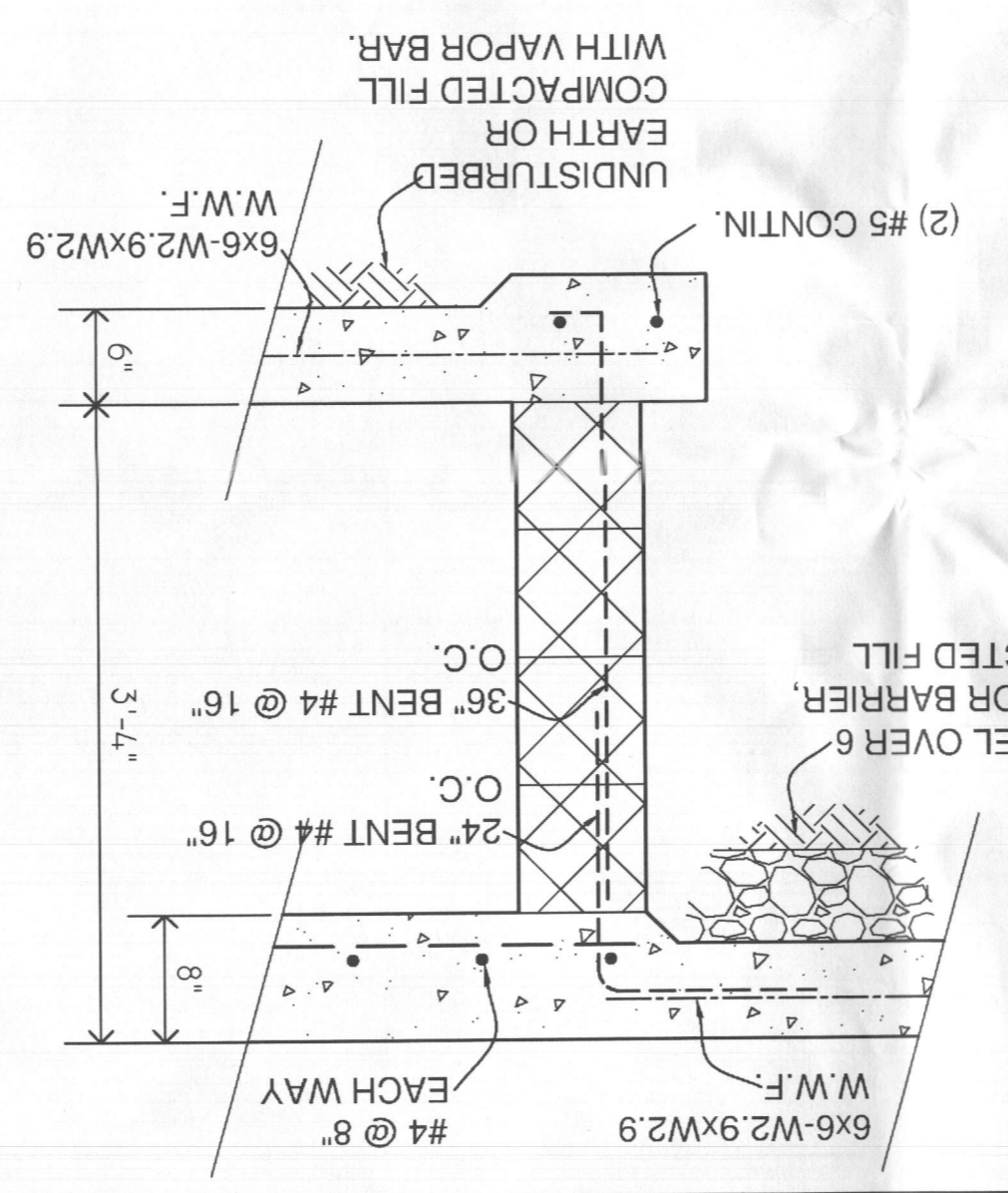
3 PIT DETAIL
1"=1'-0"



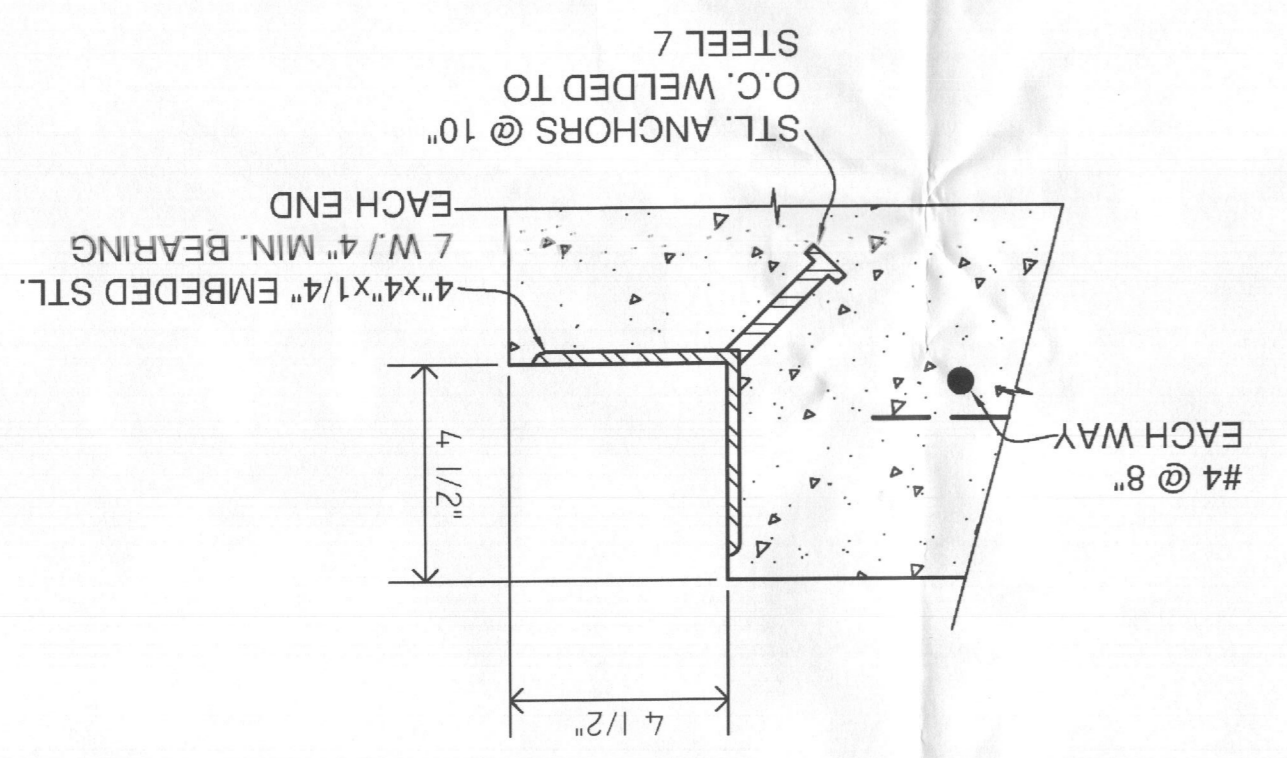
4 PIT DETAIL
1"=1'-0"



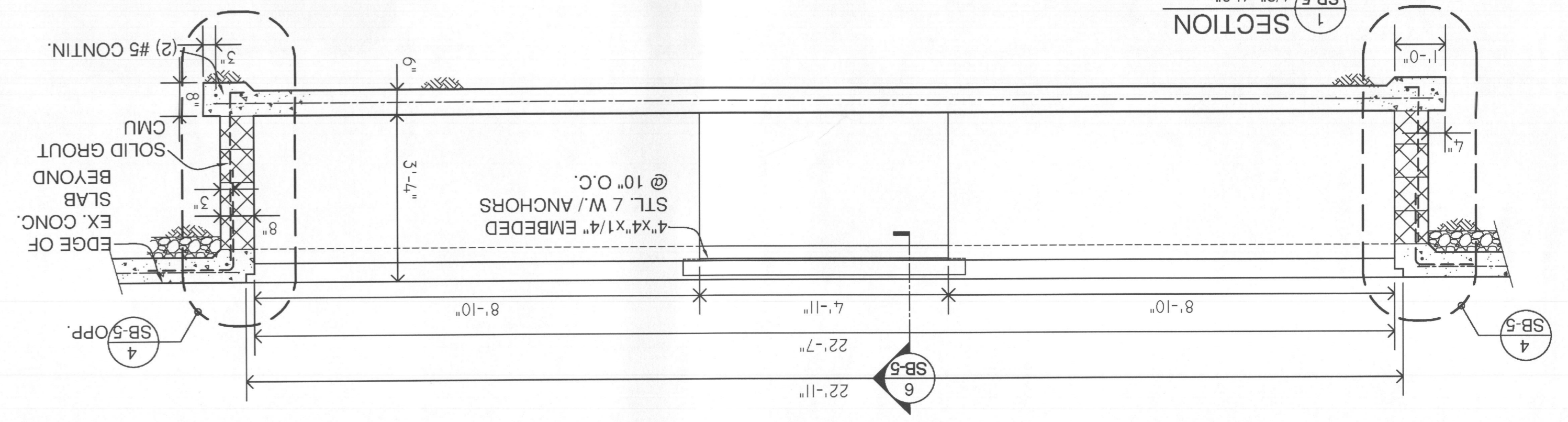
5 PIT DETAIL
1"=1'-0"



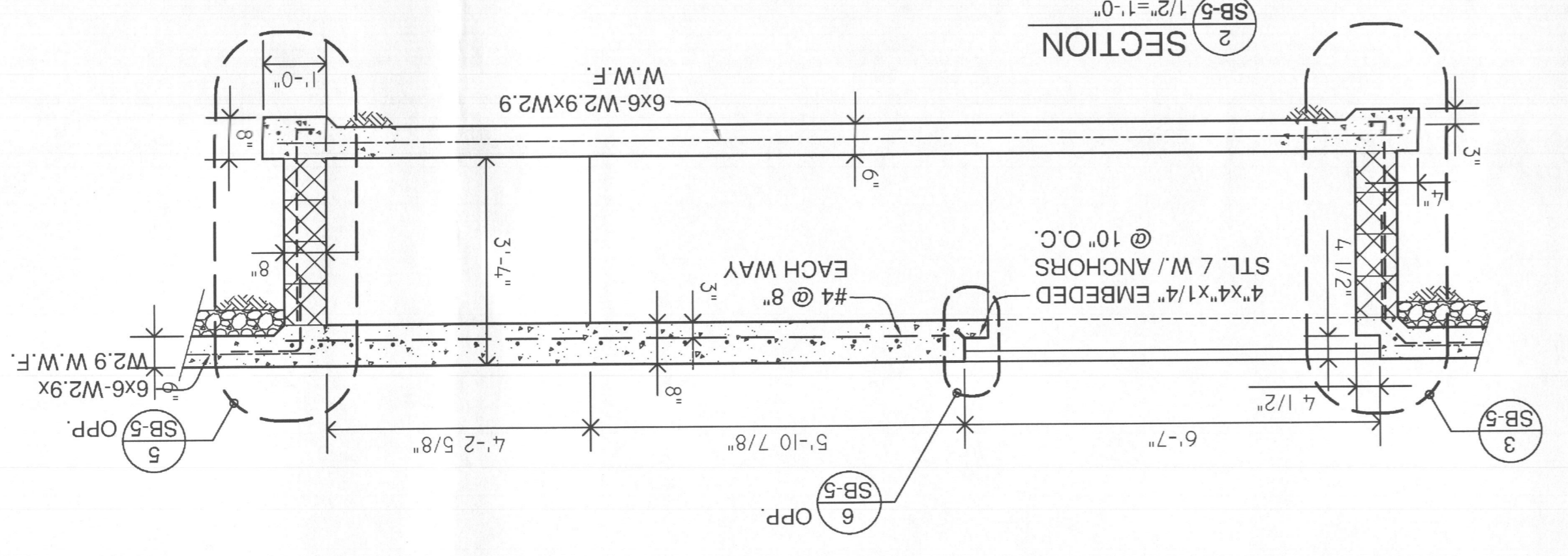
6 DETAIL SECTION
3'-1'-0"



1 SECTION
1/2"=1'-0"



2 SECTION
1/2"=1'-0"



DETAIL NOTES

- FOR LOCATION OF SECTIONS AND FOR FULL DESCRIPTION OF THE SCOPE OF PIT WORK, SEE SHEETS SB-2 THROUGH SB-4.
- CONTRACTOR TO VERIFY EXISTING GROUND WATER SOURCES PRIOR TO EXCAVATION OF PIT. IF REQUIRED, CONTRACTOR SHALL PROVIDE AND INSTALL PIT PUMP TO INSURE PIT STAYS DRY. CONNECT PUMP TO ELECTRICAL POWER AND STORM SEWER.

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DIVISION
LICENSES & PERMITS

SPRAY BOOTH SPECIFICATIONS

EACH GARMAT 99830, 31' 3000 SPRAY BOOTH WILL REQUIRE:

- AT ELECTRICAL DROP, THE (27) 4-TUBE, 32 WATT, T-8 LIGHTING FIXTURES WILL REQUIRE TWO 110/277v, 20/10 amp CIRCUITS. 110v STANDARD, 277v OPTIONAL. UPGRADED LIGHTING WILL REQUIRE AN ADDITIONAL LIGHT CIRCUIT.
- AT ELECTRICAL DROP, THE MOTORS WILL REQUIRE 208/230/460v, 110/100/50amp, THREE PHASE FOR TWO 15hp MOTORS. AN ACCELERATE UNIT WILL REQUIRE THE ADDITION OF 1.2 amps TO 230/208v CIRCUIT AND .6 amps TO 480v CIRCUIT FOR EACH 1/4 hp MOTOR. THIS INSTALLATION HAS (8) 1/4 hp MOTORS.
- ALL ELECTRICAL CONNECTIONS SHOULD BE IN ACCORDANCE TO NEC (NATIONAL ELECTRICAL CODES). VERIFY COMPLIANCE OF LOCAL CODES WITHIN THE JURISDICTION OF THE INSTALLATION SITE.
- ALLOW ADEQUATE CLEARANCE OF 3' MINIMUM FROM ALL SPARKING ELECTRICAL COMPONENTS, TO CONFORM TO NFPA 33 (NATIONAL FIRE PROTECTION ASSOCIATION), CURRENT EDITION.
- REMOTE CONTROL PANEL TO BE PLACED AT ONES' DISCRETION AND NOT TO BE WITHIN 3' OF BOOTH OPENING, IT SHALL BE IN COMPLIANCE TO THE CODES OF THE LOCAL JURISDICTION OF THE INSTALLATION SITE.
- COMPRESSED AIR TO THE AIR INLET AT THE CONTROL PANEL IS TO BE TWO TO THREE CUBIC FEET PER MINUTE OF AIR AT 60 psi MAXIMUM. FOR FINISHING APPLICATIONS ALLOW AN EXTRA 12 TO 14 CUBIC FEET PER MINUTE.
- BURNER SIZE: 1,500,000 btu.
- GAS CAPACITY TO PROVIDE FOR RATED btu AT GAS TRAIN INLET, A MINIMUM GAS PRESSURE OF 1/4 psi IS REQUIRED, A MAXIMUM OF 1/2 psi IS PREFERRED.
- SUPPORTING SURFACE FOR BOOTH AND MIXING ROOM TO BE LEVEL +/- 1/8"
- ALLOW ADEQUATE SPACE AROUND THE BOOTH IN ACCORDANCE TO NFPA 33, CURRENT EDITION.
- MEANS OF EGRESS TO CONFORM TO NFPA 101, CURRENT EDITION.
- A MINIMUM CLEARANCE OF 20' IS REQUIRED FROM FRONT OF THE BOOTH TO ANY WALL OR OBSTACLE FOR OPTIMUM TURNING RADIUS.
- HEIGHT OF CABIN AND MECHANICAL UNIT ARE 10'-10", CABIN MODEL NO. 99830X. PAINT BOOTH WALLS ARE DOUBLE SKIN 20 GAUGE METAL INSULATED PANELS.
- PROVIDE FOR UNOBSTRUCTED EXPLOSION RELIEF IN ACCORDANCE TO NFPA 86, CURRENT EDITION.
- AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM SHALL BE PROVIDED BY OTHERS, IN ACCORDANCE WITH NFPA 33, CURRENT EDITION, CHAPTER 9.

GENERAL NOTES

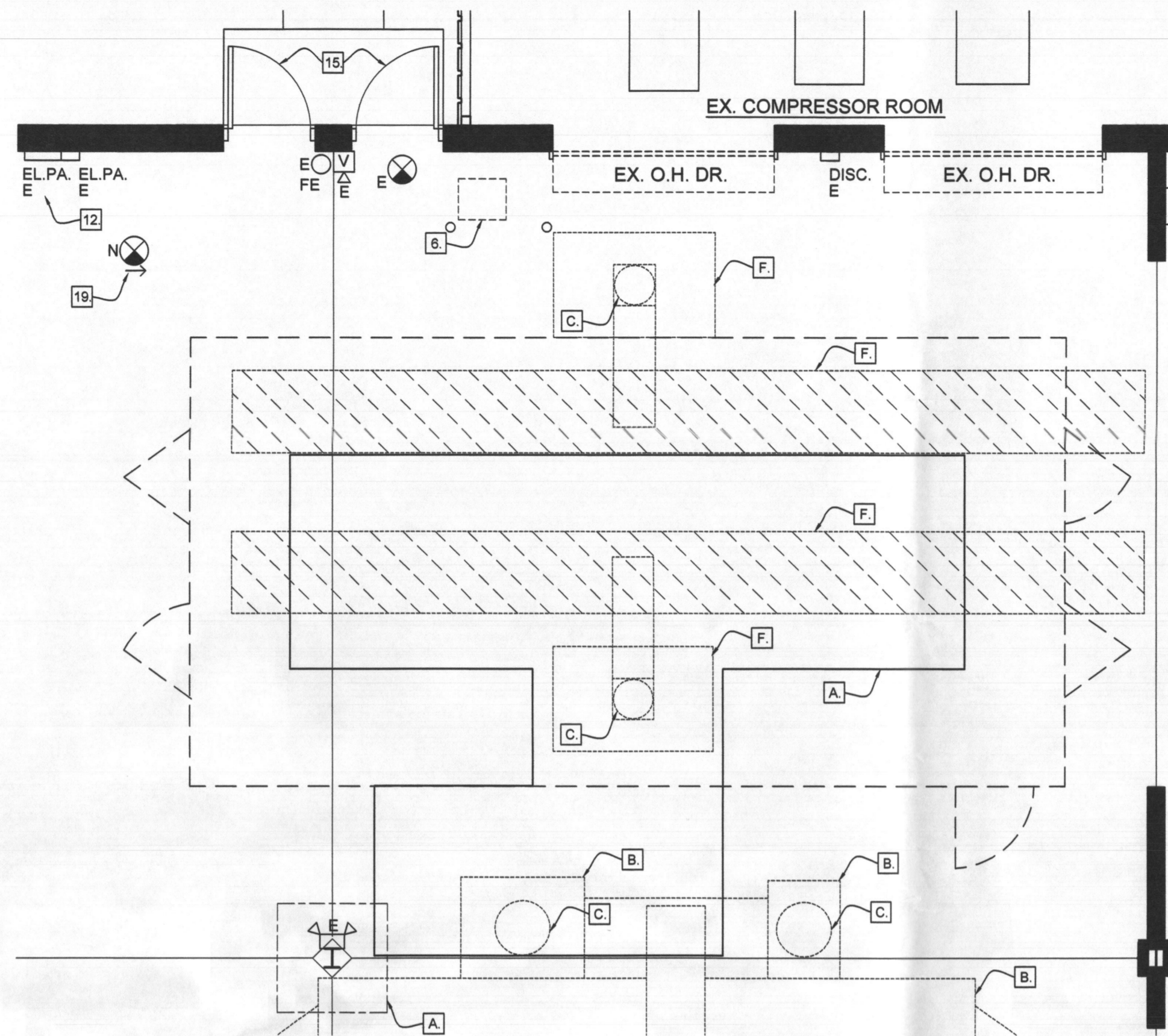
- CONTRACTOR SHALL VERIFY THAT ANY ELECTRICAL WIRING OR UTILIZATION DEVICES OUTSIDE ANY OPENINGS AT AN ENCLOSED SPRAY BOOTH ARE TO BE RATED FOR THE ZONE WHERE THEY ARE LOCATED AS PER NFPA 33, CHAPTER 6. THIS WILL INCLUDE ANY EXISTING OR NEW ELECTRICAL WIRING OR EQUIPMENT IN THOSE ZONES.
- CONTRACTOR TO VERIFY EXISTING GROUND WATER SOURCES PRIOR TO EXCAVATION OF PITS. IF REQUIRED, CONTRACTOR SHALL PROVIDE AND INSTALL PIT SUMP PUMPS TO INSURE PITS STAY DRY. CONNECT PUMPS TO ELECTRICAL POWER AND STORM SEWER.
- ALL ELECTRICAL WIRING INSIDE BOOTH AND MIX ROOM TO BE CLASS 1, DIVISION 1. ALL WIRING 5'-0" HORIZONTAL OR WITHIN 3'-0" VERTICAL OF ANY BOOTH OR MIX ROOM OPENING TO BE CLASS 1, DIVISION 2. OPEN FLAMES OR SPARKS ARE NOT ALLOWED WITHIN 20'-0" OF ANY BOOTH OR MIX ROOM OPENING.
- ALL DUCTWORK TO BE SEALED SHEET METAL PER NFPA 33.
- SPRAY BOOTH IS ALSO DRYING ROOM.
- NOTE: ANY PAINT STORED IN PAINT SPRAY BOOTHS IS TO BE REMOVED PRIOR TO DRYING CYCLE.

MECHANICAL EQUIPMENT NOTES

PLEASE NOTE THAT THE PAINT SPRAY BOOTH MAKE-UP AIR UNIT AND EXHAUST FAN LISTED IN THE SPECIFICATIONS ABOVE ARE EACH RATED AT 18,000 CFM. THIS EQUATES OUT TO 4 COMPLETE AIR CHANGES PER MINUTE FOR THE PAINT SPRAY BOOTH AND COMPLY WITH NFPA 33.

- CONTRACTOR TO CONNECT NEW BOOTH TO PREVIOUS PAINT BOOTH GAS SUPPLY WITH 2" SCHEDULE 40 BLACK PIPE.
- CONTRACTOR TO INSTALL NEW 2 PSI, 8" W.C. REGULATOR AT GAS INLET TO NEW PAINT BOOTH BURNER.
- SEE 1/SB-4 FOR EXHAUST DUCT CLEANOUT LOCATION.

Optional Duct Caps			Duct Penetration Opening		
Standard	Intake	Exhaust	Standard	Intake	Exhaust
Tier/Chinook	25 Sq. In.	25 Sq. In.	Tier/Chinook	28 Sq. In.	28 Sq. In.
Frontier	30 Sq. In.	25 Sq. In.	Frontier	33 Sq. In.	28 Sq. In.
10 hp / 500 Fan	30 Sq. In.	25 Sq. In.	10 hp / 500 Fan	33 Sq. In.	28 Sq. In.
15 hp / 560 Fan	32 Sq. In.	28.5 Sq. In.	15 hp / 560 Fan	35 Sq. In.	31.5 Sq. In.
20-25 hp / 630 Fan	42 Sq. In.	32 Sq. In.	20-25 hp / 630 Fan	45 Sq. In.	35 Sq. In.



1 DEMOLITION PLAN 2, 3, 4, 5, 6, 7, 8, 11, 15, 16
SB-3 1/4"=1'-0"

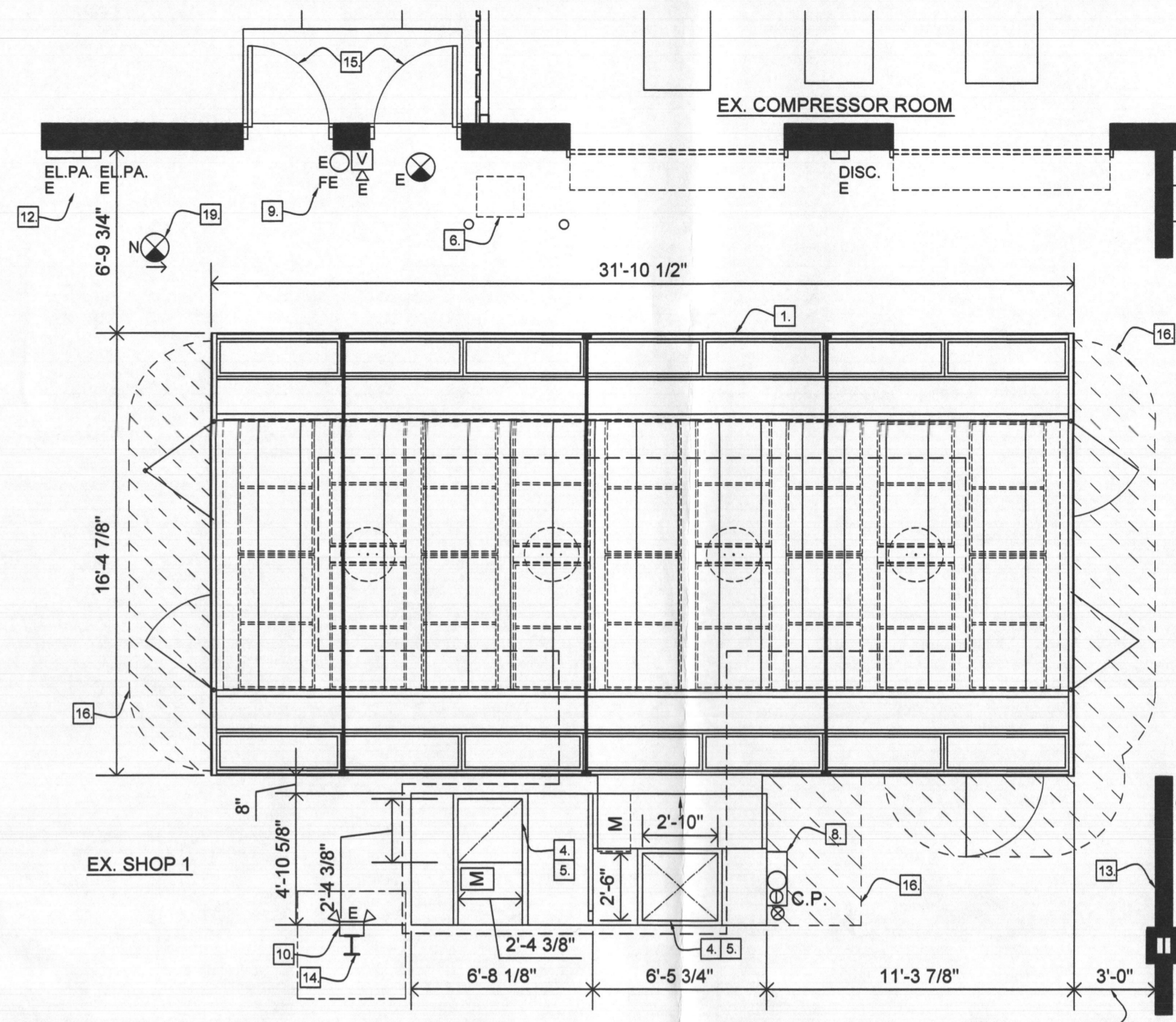
GENERAL DEMOLITION NOTES

- FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF DEMOLITION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- SEE OTHER DRAWINGS FOR ADDITIONAL DEMOLITION WORK. CUT AND PATCH ALL EXISTING CONSTRUCTION WHERE REQUIRED BY STRUCTURAL/MECHANICAL/ELECTRICAL OR OTHER WORK.
- ALL PATCHING SHALL BE FLUSH WITH SURROUNDING SURFACES AND LEVEL WITHIN TOLERANCES SPECIFIED FOR THE SPECIFIC MATERIAL. IF MATERIAL IS NOT SPECIFIED, MAINTAIN EXISTING PLANES WITHIN 1/8" IN 10 FEET, NON-CUMULATIVE.
- THE ITEMS IDENTIFIED TO BE REMOVED REPRESENT THE MAJOR ITEMS ONLY. ALL OTHER ITEMS, THAT REQUIRE REMOVAL TO COMPLETE THE WORK, SHALL ALSO BE REMOVED.
- KEEP WORK AREAS CLEAN AT ALL TIMES. CONSTRUCTION MATERIALS ARE TO BE STORED AT LOCATIONS DETERMINED BY OWNER. PROTECT ALL FINISHES. REPAIR DAMAGED FINISHES UPON COMPLETION OF WORK. PROVIDE DUST ENCLOSURE OF PIT WORK AREA.

DEMOLITION NOTES

(APPLY TO 1/SB-3 THIS SHEET ONLY)

- REMOVE CONCRETE SLAB FOR NEW PIT. SEE SHEET SB-2 FOR PIT DIMENSIONS AND SHEET SB-5 FOR DESCRIPTION OF PIT WALLS AND FOOTING. EXTENT OF SLAB DEMOLITION INDICATED TO INCLUDE EXTENT OF NEW FOOTING - VERIFY EXISTING ASSUMED COLUMN FOOTING AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF NEW WORK.
- REMOVE EQUIPMENT AS INDICATED ON 1/SB-3.
- REMOVE EXISTING DUCTWORK, CAP, CURB AND FLASHING AT ROOF OPENING.
- RELOCATE ELECTRICAL LIGHTS, CONDUIT OR SWITCHES AS REQUIRED BY INSTALLATION OF NEW WORK OR REMOVAL OF EXISTING EQUIPMENT.
- REMOVE ROOF DECKING, ROOFING AND OTHER OBSTRUCTIONS IN ORDER TO INSTALL NEW INTAKE AND EXHAUST DUCT ABOVE, AS PER ROOFING AND PAINT BOOTH MANUFACTURER'S RECOMMENDATIONS. SEE SHEET SB-4.
- REMOVE GRATES, STEEL STRUCTURE AND STEEL EDGING ON EXISTING PITS, DUCTWORK ABOVE PREVIOUS PREP DECK.
- EQUIPMENT AND BOLLARDS TO REMAIN.



2 CONSTRUCTION PLAN 2, 3, 6, 8, 11, 15, 16
SB-3 1/4"=1'-0"

CONSTRUCTION LEGEND

- ⊖ ELECTRICAL DROP
- [M] MOTOR LOCATION
- ⊙ AIR INLET
- GAS TRAIN INLET
- 11 SEE CONSTRUCTION NOTES THIS PAGE FOR WORK DESCRIPTION
- C.P. CONTROL PANEL
- ⊗ EXIT SIGN
- ⊙ FE FIRE EXTINGUISHER
- ⊕ EMERGENCY LIGHT
- EL.PA. ELECTRICAL PANEL
- ⊖ ELECTRICAL DISCONNECT
- PS PAINT STORAGE CABINET
- ⊖ EQUIPMENT LIGHT
- CA COMPRESSED AIR
- HOSE BIB
- ⊕ RECEPCTACLE
- ⊖ JUNCTION BOX
- ⊖ SUPPLY DUCT
- ⊖ EXHAUST DUCT
- ⊖ FAN
- ⊖ PULL STATION
- ⊖ STROBE - VISUAL/AUDIBLE
- ⊖ STROBE - VISUAL
- E = EXISTING
- N = NEW
- SEE CS-1 FOR OTHER ABBREVIATIONS

CONSTRUCTION NOTES

(APPLY TO 2/SB-3 THIS SHEET ONLY)

- INSTALL NEW PREFABRICATED PAINT SPRAY BOOTH, ASSOCIATED DUCTWORK AND MECHANICAL SYSTEM. THIS WORK WILL INCLUDE ELECTRICAL, GAS AND PLUMBING CONNECTIONS (UNDER A SEPARATE CONTRACT, BY OTHERS).
- THERE WILL BE A SEPARATE PERMIT FILED FOR THE SPRINKLERS REQUIRED FOR THE PREFABRICATED SPRAY BOOTH (BY OTHERS). CONNECT TO EXISTING BUILDING SYSTEM.
- SEE SPECIFICATIONS FOR FULL DESCRIPTION OF THE SCOPE OF WORK (THIS SHEET).
- NEW DUCTWORK ABOVE UNIT TO PENETRATE ROOF. SEE ELEVATIONS ON SHEET SB-4 FOR DESCRIPTION AND SEE SHEET SB-5 FOR ROOF DETAILS. PROVIDE CLEARANCES BETWEEN ALL DUCT INLET AND OUTLET LOCATIONS AS REQUIRED BY CODE. DUCTWORK TO BE FABRICATED TO CLEAR EXISTING EQUIPMENT AND ROOF STRUCTURE AS PER MANUFACTURER'S STANDARDS AND CODE REQUIREMENTS. SEE 1/SB-2 FOR DIMENSIONS OF DUCTWORK AT BOOTH. ROUTE DUCTWORK THROUGH STRUCTURAL ELEMENTS AS PER MANUFACTURER'S RECOMMENDATIONS AND PER CODE. SEE SHEET SB-4.
- CONTRACTOR TO RELOCATE ANY LIGHTS, BRACING, CONDUIT OR PIPING IN ORDER TO PROPERLY INSTALL DUCTWORK. SEE 2/SB-3.
- SEE OTHER WORK ON SHEETS SB-2 AND SB-4.
- VERIFY DIMENSIONS TO EXISTING WALLS AND STRUCTURES CONFORM WITH ALL ASSOCIATED CODES PRIOR TO THE START OF CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICTS.
- CONNECT NEW BOOTH TO EXISTING GAS, ELECTRIC AND AIR. SEE SPECIFICATIONS FOR REQUIREMENTS (THIS SHEET).
- EXISTING FIRE EXTINGUISHERS TO REMAIN AS SHOWN.
- SHOP EMERGENCY LIGHTING TO REMAIN AS INDICATED.
- EXISTING SHOP MECHANICAL SUPPLY AIR AND EXHAUST TO REMAIN.
- EXISTING ELECTRICAL PANEL LOCATIONS. CONNECT NEW BOOTH CONTROL PANEL TO BUILDING ELECTRICAL PANEL.
- EXISTING PARTITION TO REMAIN.
- EXISTING COLUMN TO REMAIN.
- EXISTING SHOP DOORS TO REMAIN.
- EXTENT OF CLASS 1, DIVISION 2 ELECTRICAL AREA. SEE GENERAL NOTE 'D'.
- ADD EXIT SIGN. CONNECT TO EMERGENCY LIGHTING CIRCUIT.
- FILL PREVIOUS PIT LOCATION (VERIFY EXTENT AFTER DEMOLITION OF EQUIPMENT). SEE 8/SB-5 FOR CONSTRUCTION DETAIL.
- SEE 7/SB-5 FOR ROOF CAP DETAIL AT PREVIOUS OPENINGS. SEE DEMO NOTE 3.

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 PRE-ENGINEERED PAINT BOOTH INSTALLATION
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 COLUMBIA, MD 21045

ISSUED

MARCH 30, 2018

REVISED

DRAWING TITLE
DEMOLITION, SPRAY BOOTH PLANS, SPECIFICATIONS

SHEET

M-1

1 OF 1

CUSTOMER TRISTATE

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2018
GARMAT 99830 SPRAY BOOTH PLAN AND SPECIFICATIONS

SHEET SIZE - 0
REVISION - 0
DATE 2/2/18
1/4"=1'-0"
B
SHEET NO.

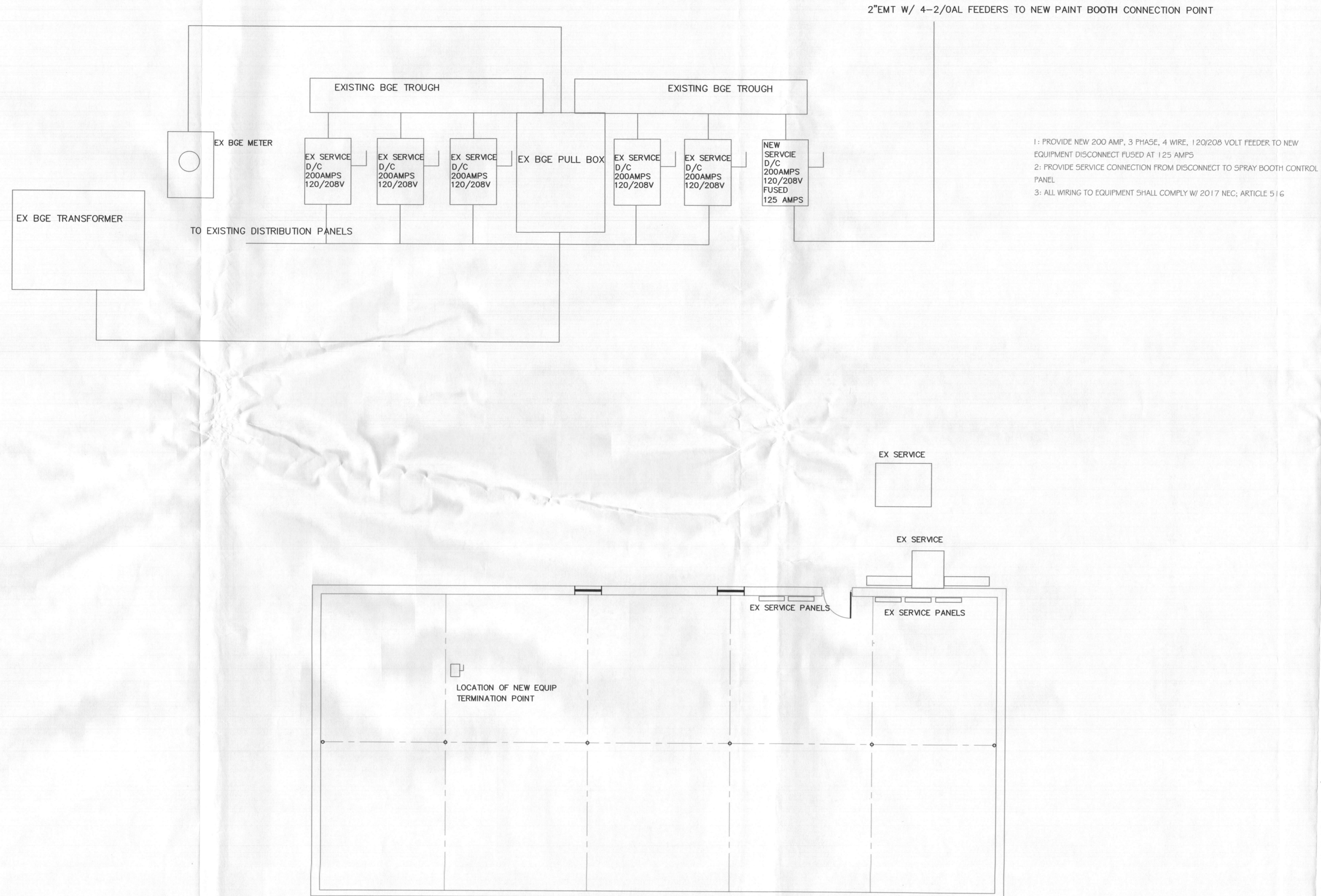
2018
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LICENSES & PERMITS DIVISION

STATE OF MARYLAND
DEPARTMENT OF GENERAL SERVICES
WATER, FIRE & MARINE CONTROL DIVISION
No. 2339

BUILDING ELEMENTS AND FRAMING INDICATED FOR REFERENCE ONLY - N.I.C.

4/3/18



TRI STATE COLLISION
 8916 MCGAW COURT

1 RISER DIAGRAM AND NOTES
 Scale: 3/32" = 1'-0"

RECEIVED
 APR 05 2018
 LICENSES & PERMITS
 DIVISION

E1

Handwritten notes and stamps in the bottom right corner, including a date stamp and some illegible text.