

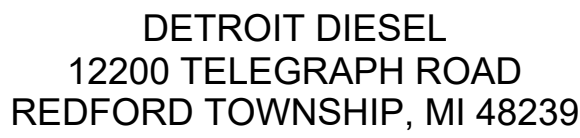
DETROIT DIESEL TEST CELLS EXHAUST

DETROIT DIESEL PROJECT INFORMATION	
PROJECT:	TEST CELLS EXHAUST FILTRATION
PROJECT NUMBER:	2400694
PROJECT LOCATION:	REDFORD TOWNSHIP, MI
PROJECT MANAGER:	ANTHONY PODOJIL

PROJECT: TEST CELLS EXHAUST FI
PROJECT NUMBER: 2400694
PROJECT LOCATION: REDFORD TOWNSHIP, MI
PROJECT MANAGER: ANTHONY PODOJIL

<u>ENGINEERING FIRM INFORMATION</u>	
NAME:	GHAFARI ASSOCIATES, LLC.
ADDRESS:	17101 MICHIGAN AVE DEARBORN, MI 48126-2736
TELEPHONE:	313.441.3000
WEBSITE:	WWW.GHAFARI.COM
PROJECT MANAGER:	GARY GORKOWSKI
PROJECT:	2400694

NAME: GHAFARI ASSOCIATES, LLC.
ADDRESS: 17101 MICHIGAN AVE
DEARBORN, MI 48126-2736
TELEPHONE: 313.441.3000
WEBSITE: WWW.GHAFARI.COM
PROJECT MANAGER: GARY GORKOWSKI
PROJECT: 2400694



TEST CELL EXHAUST
REDFORD TWP.

GHAFARI

17101 MICHIGAN AVENUE
DEARBORN, MI 48126-2736 USA
TEL +1.313.441.3000
www.ghafari.com

CONSULTANT INFORMATION

REGISTRATION SEAL

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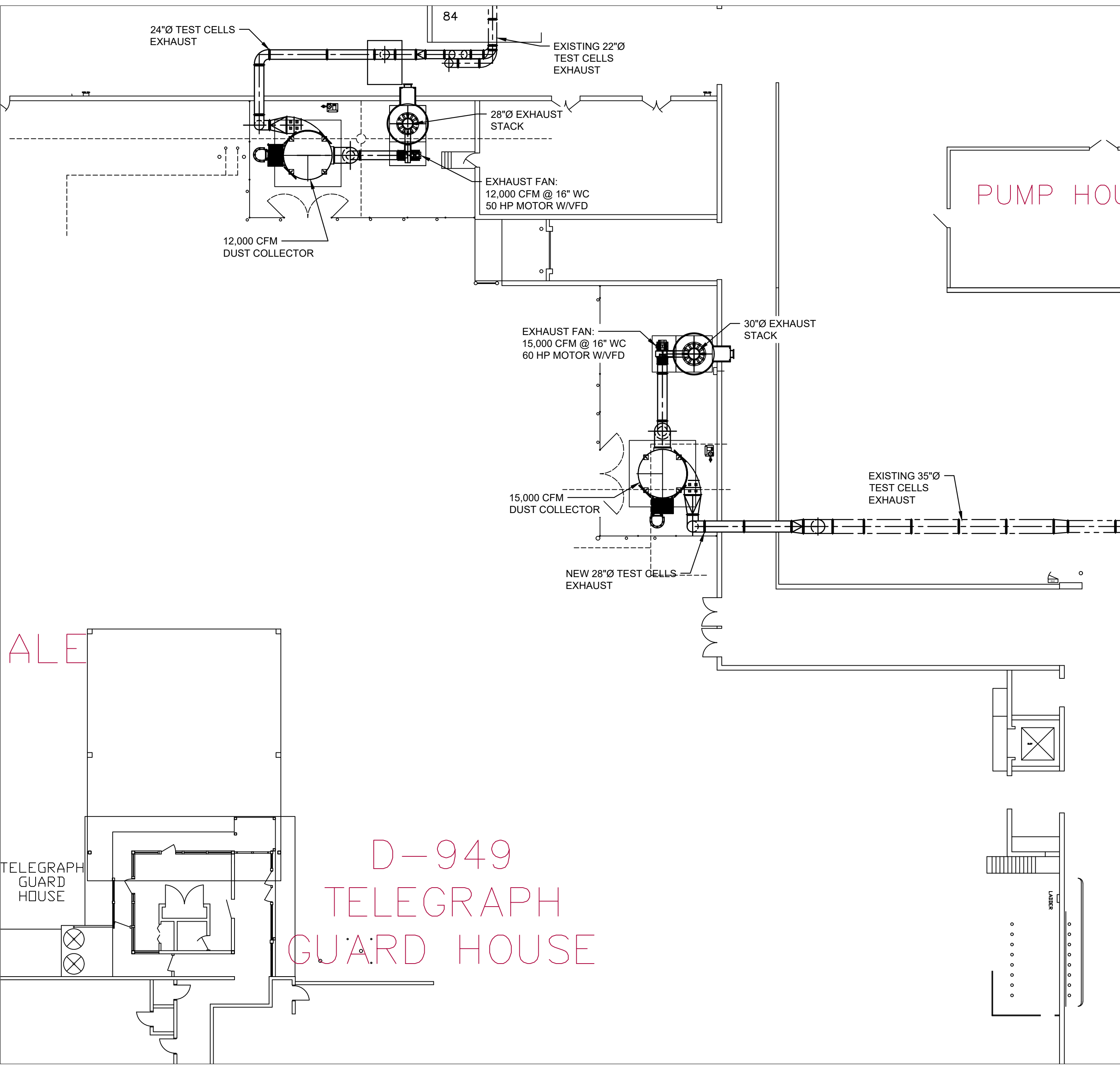
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PROJECT #	2400694.00
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	G. GORKOWSKI
DRAWN BY	G. GORKOWSKI
QUALCHECK	D. WOOD
SHEET TITLE	

**TEST CELLS
PROCESS EXHAUST
COVER SHEET & INDEX
M-6 M-11**

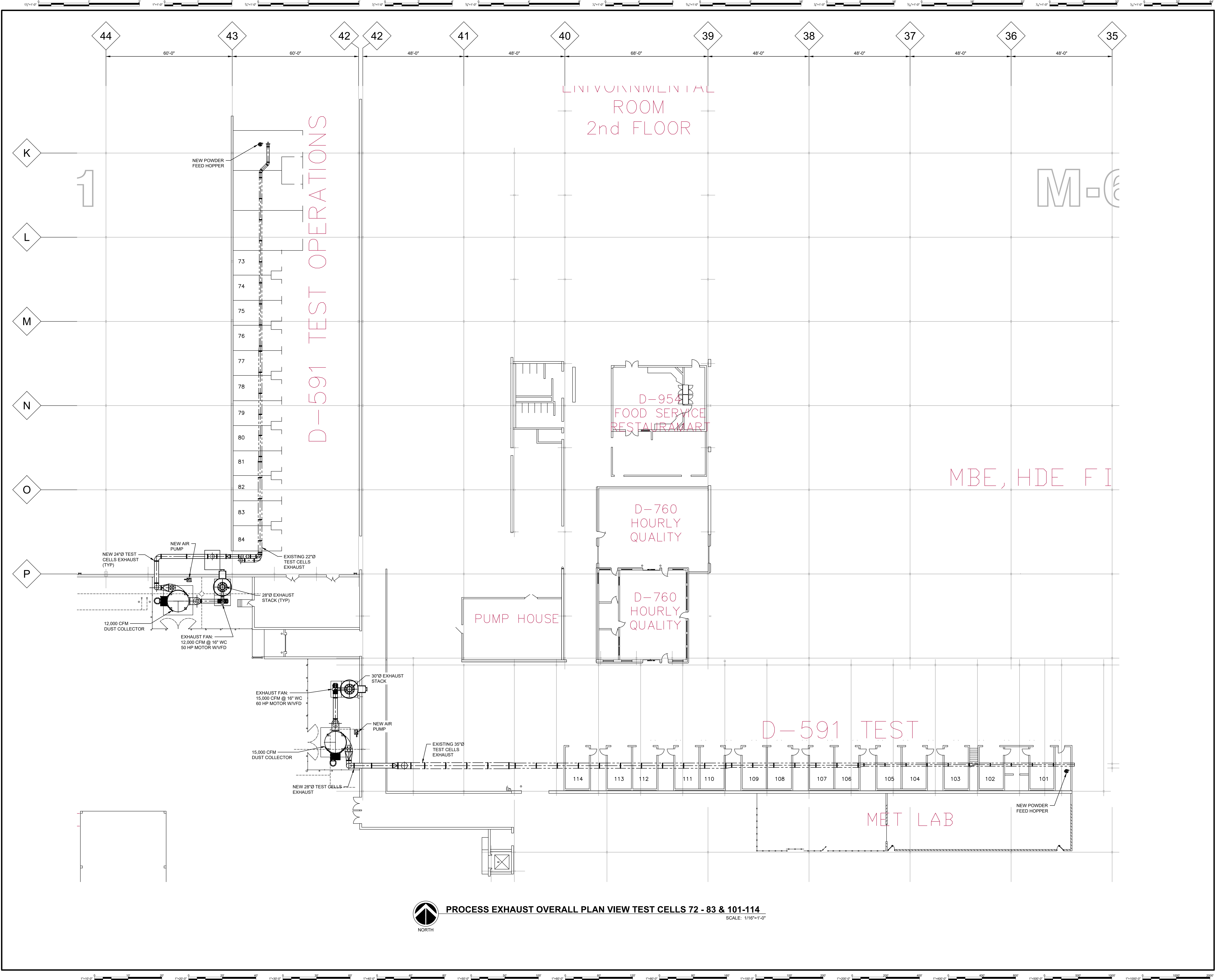
INDX-01-01
SHEET NUMBER



PROCESS EXHAUST PLAN VIEW EXTERIOR OF THE BUILDING

SCALE: 1/16"=1'-0"

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PROCESS EXHAUST OVERALL PLAN VIEW TEST CELLS 72 - 83 & 101-114

SCALE: 1/16"=1'-0"

DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

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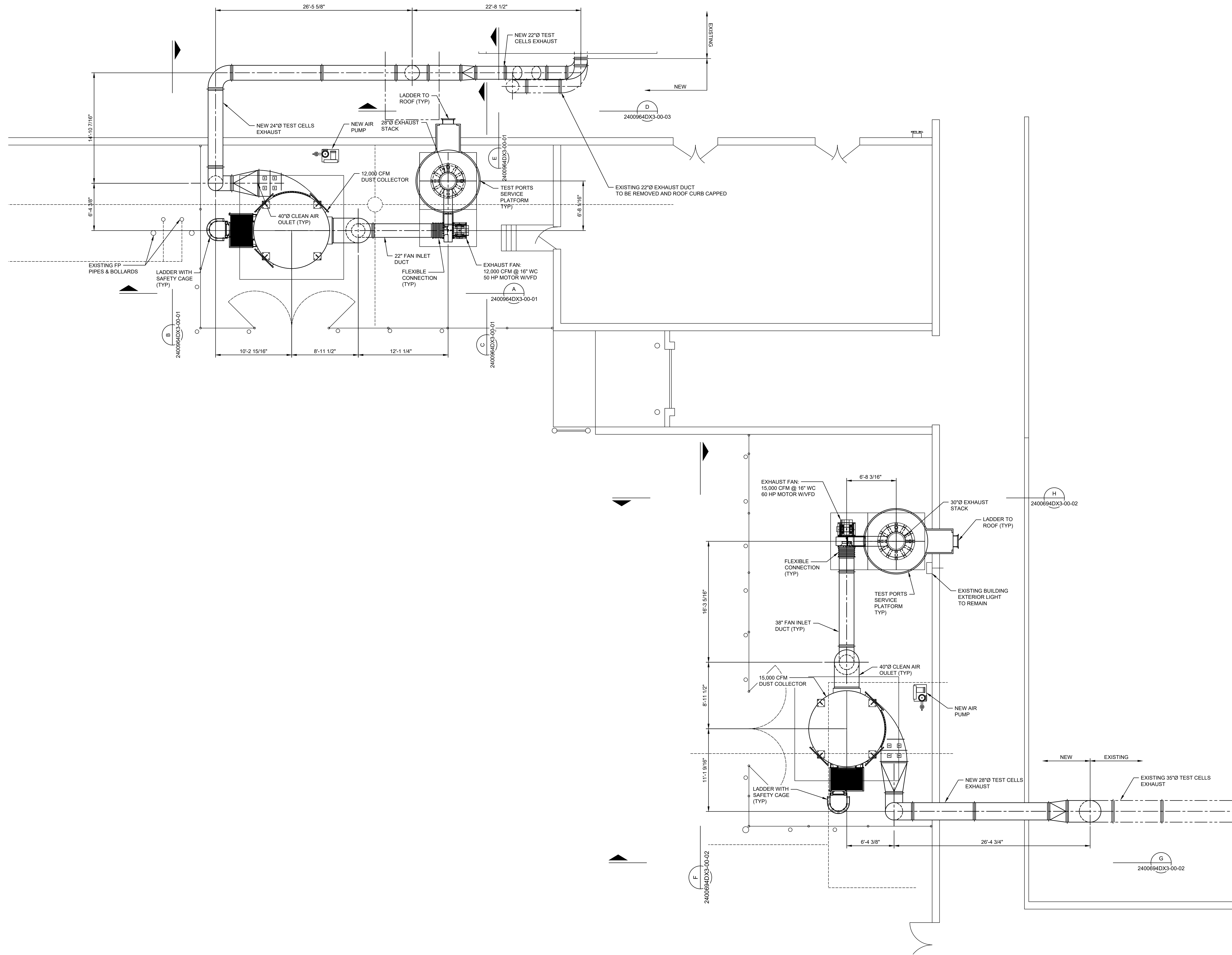
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00	05/08/25	ISSUED FOR BID

PROJECT #	2400894.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	G. GORKOWSKI
DRAWN BY	T. GILLILAND
QUALCHECK	D. WOOD
SHEET TITLE	

TEST CELLS
PROCESS EXHAUST
OVERALL PLAN VIEW
M-6 M-11

DX1-01-01
SHEET NUMBER

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PROCESS EXHAUST PLAN VIEW EXTERIOR OF THE BUILDING

SCALE: 3/16"=1'-0"



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

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DEARBORN, MI 48126-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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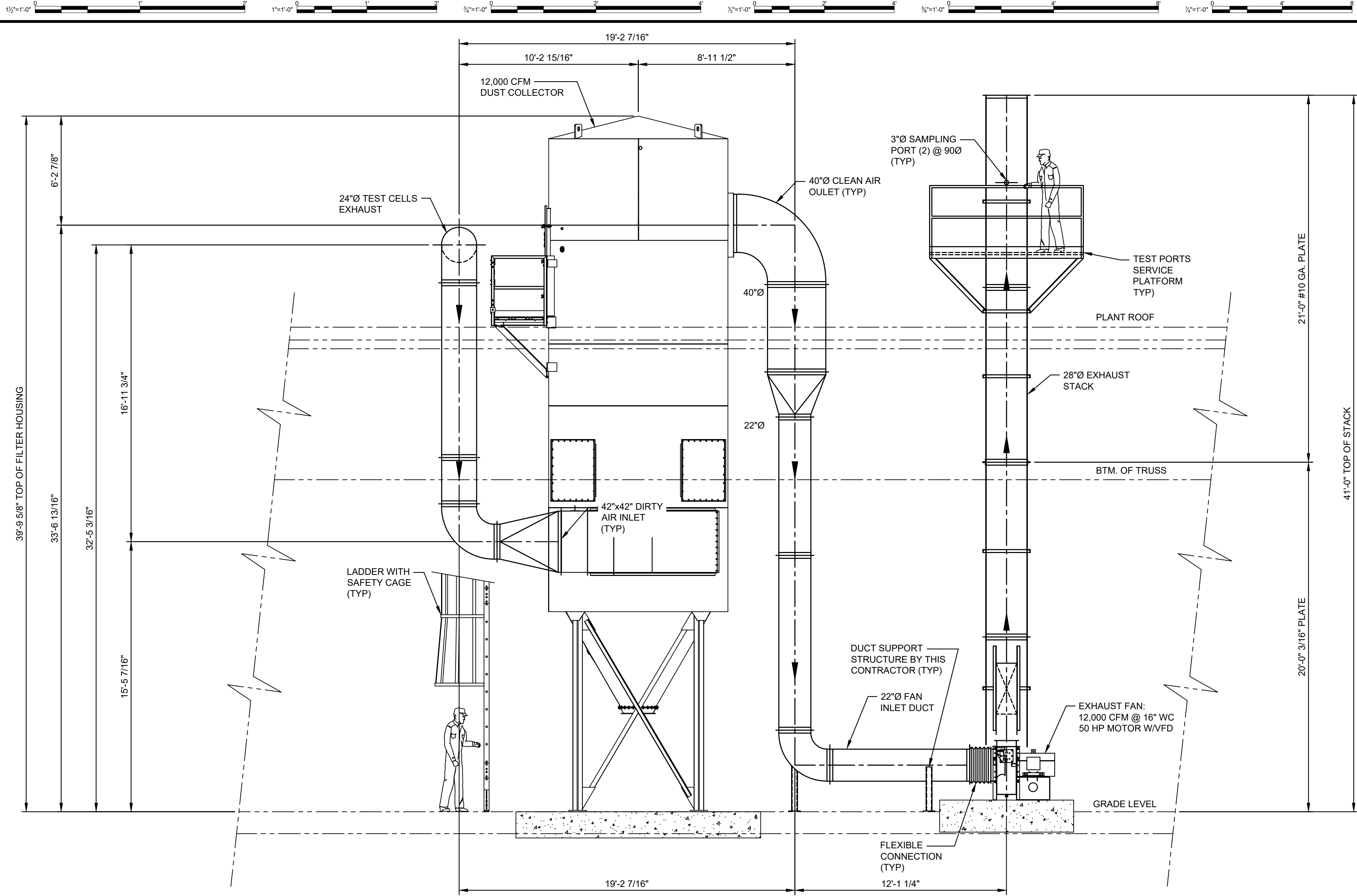
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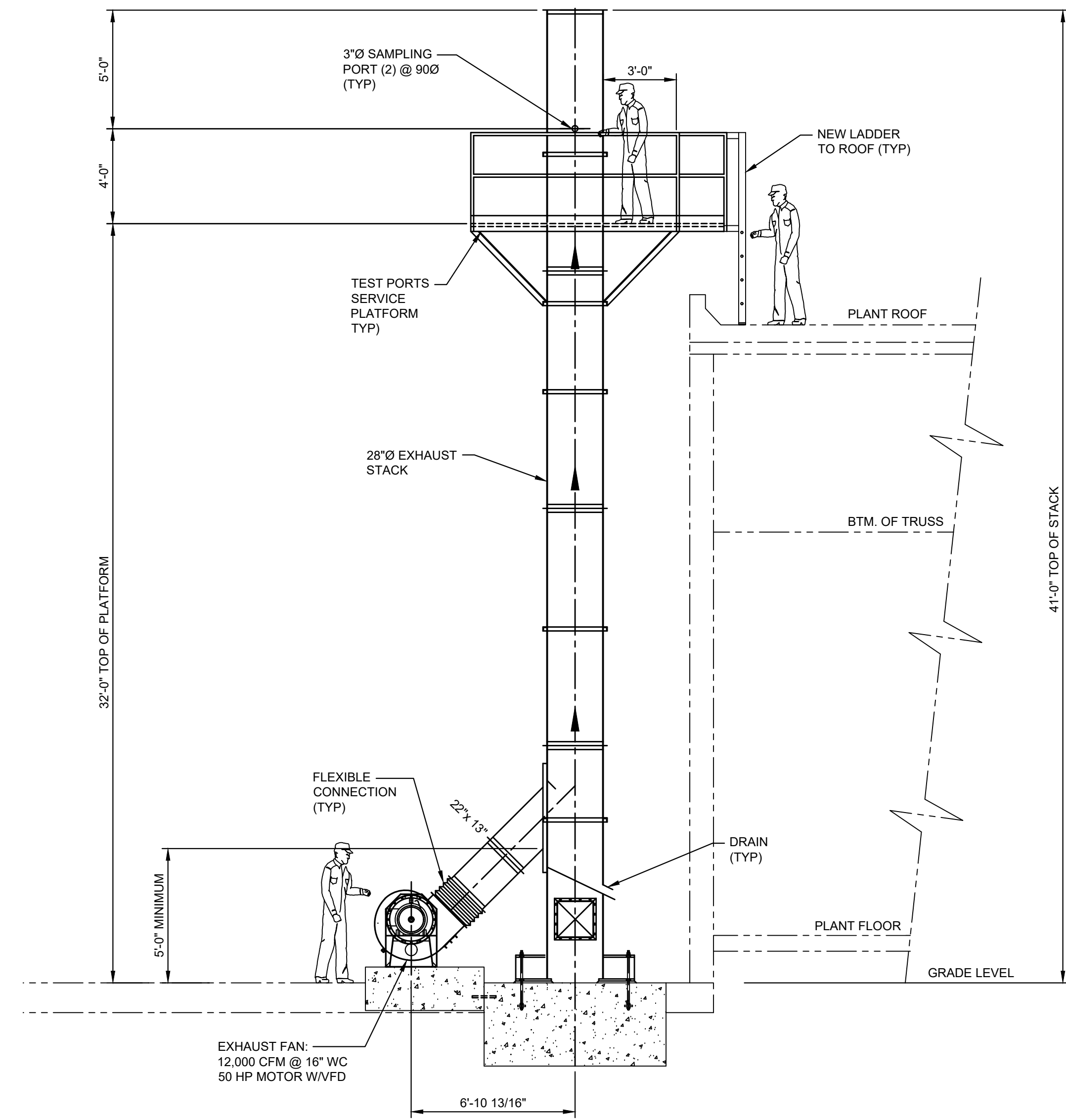
PROJECT # 2400894.001
PROJECT MANAGER G. GORKOWSKI
DESIGNED BY G. GORKOWSKI
DRAWN BY T. GILLILAND
QUALCHECK D. WOOD
SHEET TITLE

TEST CELLS
PROCESS EXHAUST
ENLARGED PLAN VIEW
M-6 M-11

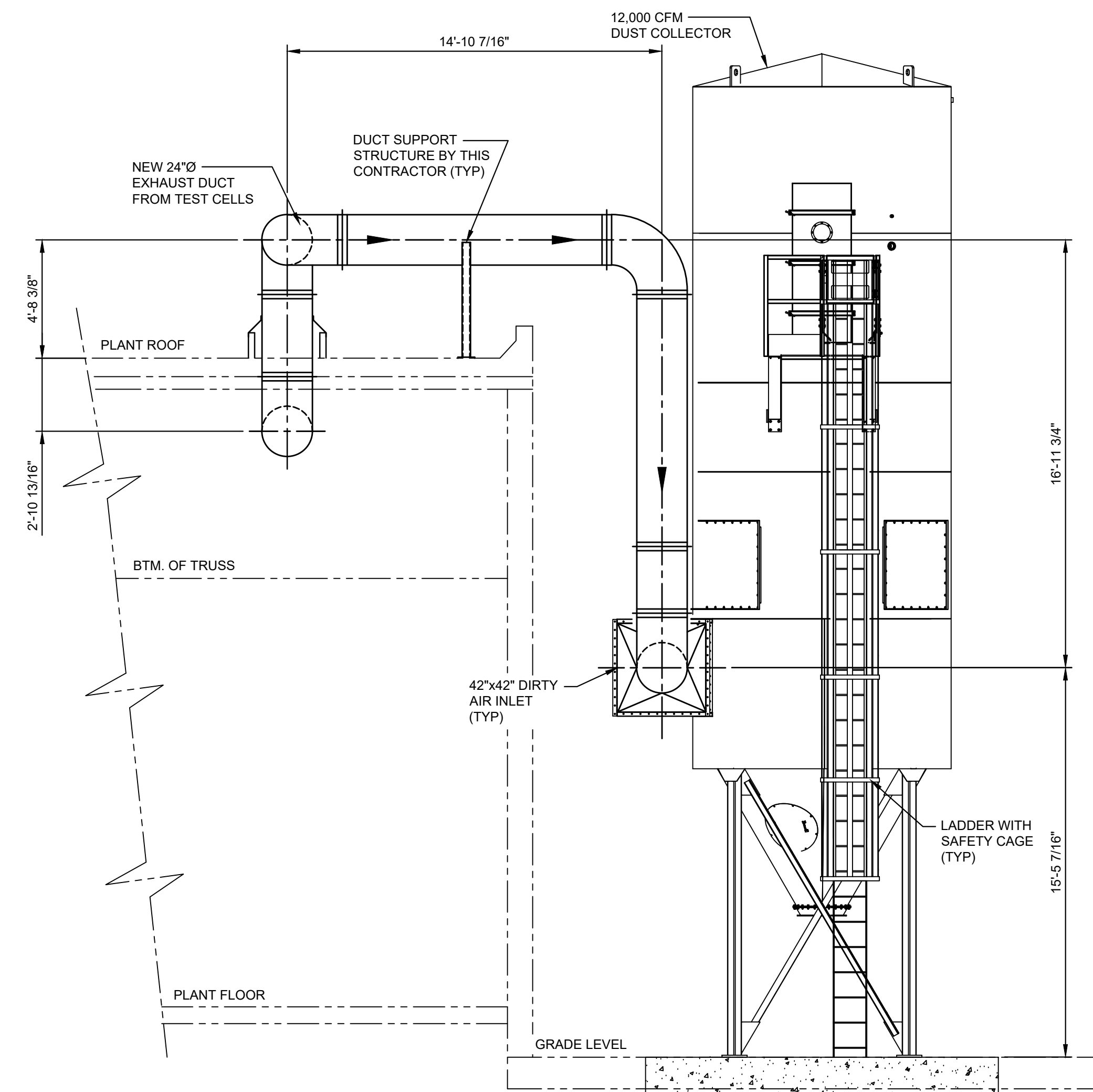
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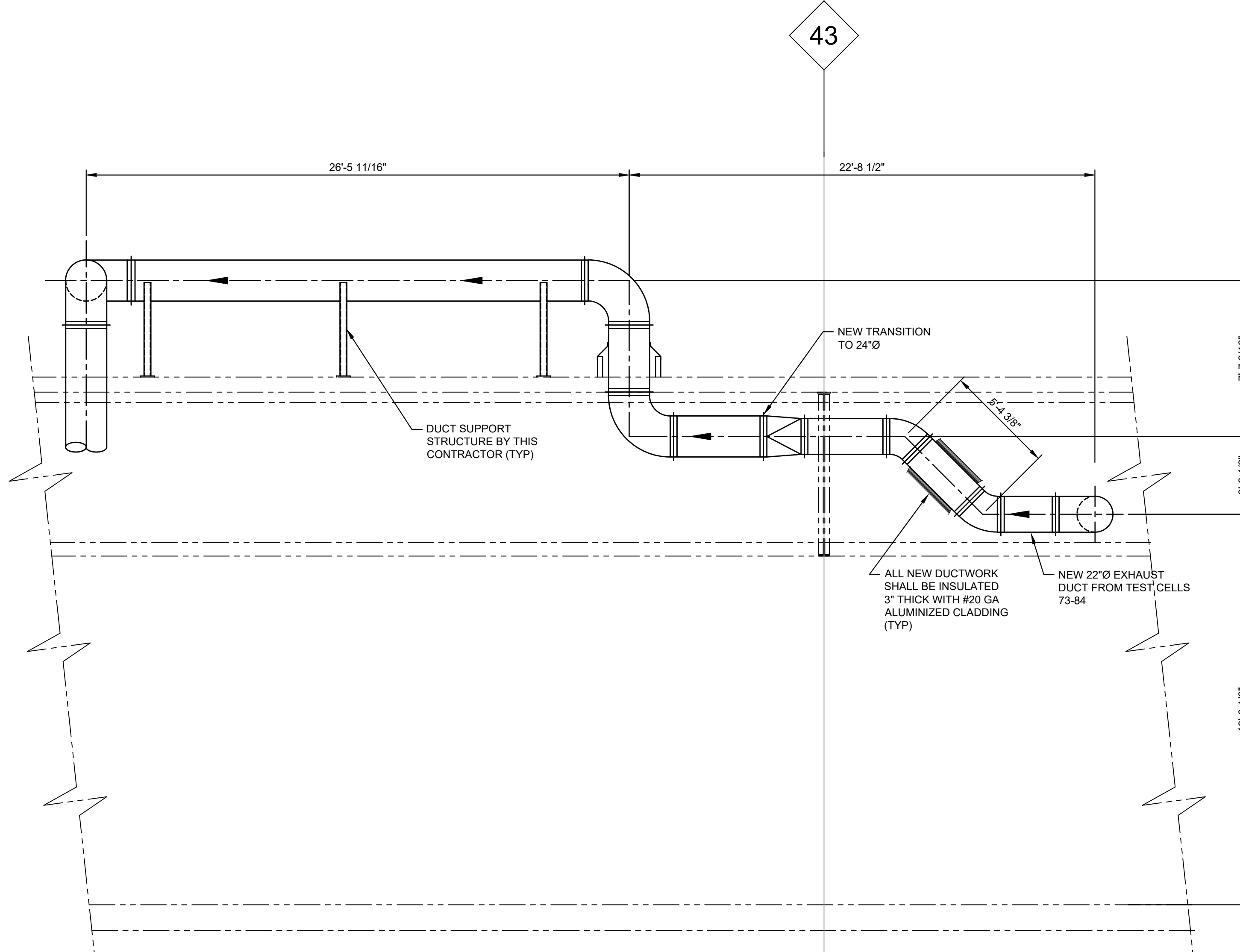
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2400694DX4-01-01 SCALE: 1/4"=1'-0"



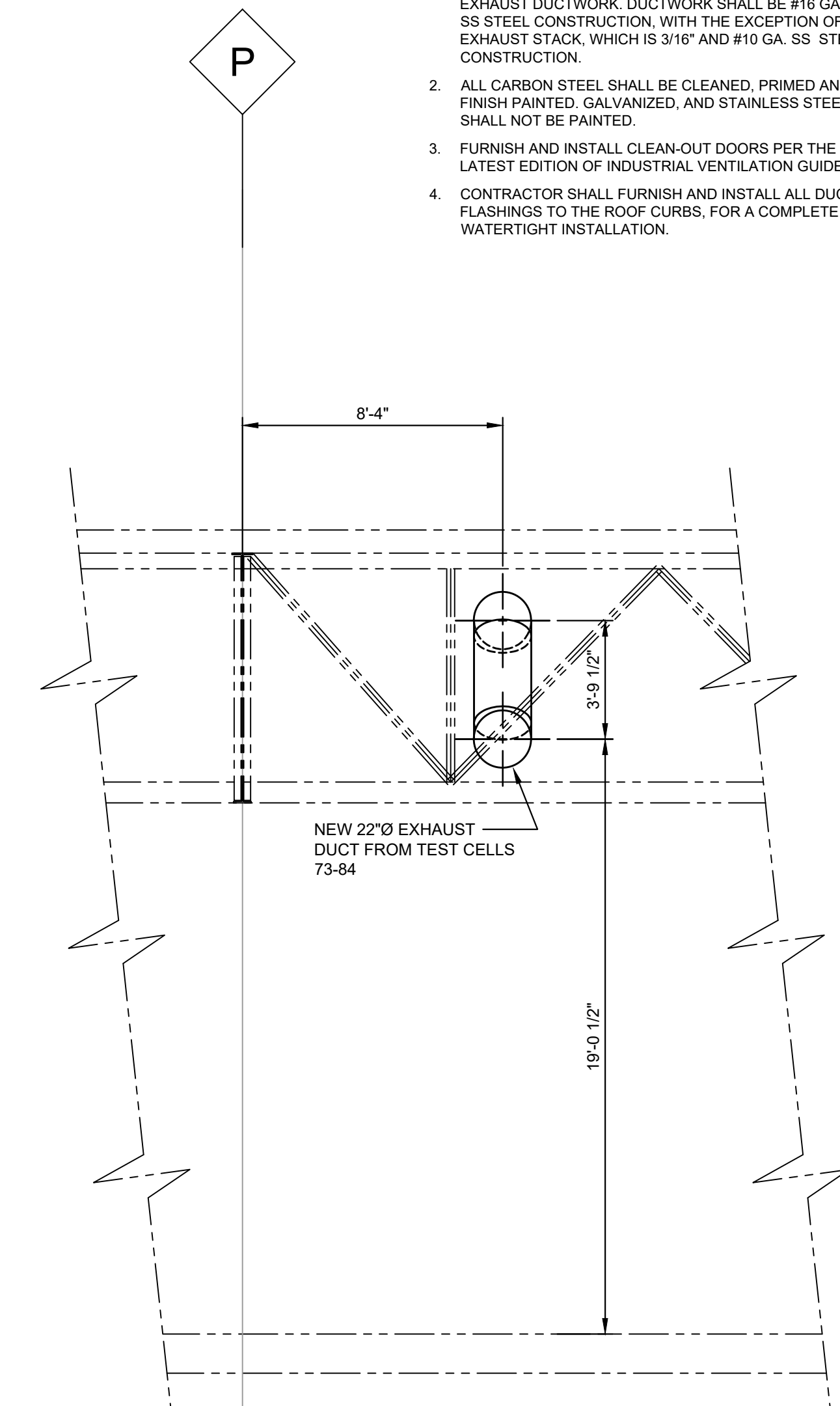
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2400694DX4-01-01 SCALE: 1/4"=1'-0"



B PROCESS EXHAUST SECTION VIEW TEST CELLS 73-84
2400694DX4-01-01 SCALE: 1/4"=1'-0"



D PROCESS EXHAUST SECTION VIEW TEST CELLS 73-84
2400694DX4-01-01 SCALE: 1/4"=1'-0"



E PROCESS EXHAUST SECTION VIEW TEST CELLS 73-84
2400694DX4-01-01 SCALE: 1/4"=1'-0"

- GENERAL NOTES:**
1. CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW EXHAUST DUCTWORK. DUCTWORK SHALL BE #16 GA. 304 SS STEEL CONSTRUCTION, WITH THE EXCEPTION OF THE EXHAUST STACK, WHICH IS 3/16" AND #10 GA. SS STEEL CONSTRUCTION.
 2. ALL CARBON STEEL SHALL BE CLEANED, PRIMED AND FINISH PAINTED. GALVANIZED, AND STAINLESS STEEL SHALL NOT BE PAINTED.
 3. FURNISH AND INSTALL CLEAN-OUT DOORS PER THE LATEST EDITION OF INDUSTRIAL VENTILATION GUIDELINES.
 4. CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT FLASHINGS TO THE ROOF CURBS, FOR A COMPLETE AND WATERTIGHT INSTALLATION.



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

GHAFARI

17101 MICHIGAN AVENUE
DEARBORN, MI 48128-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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REGISTRATION SEAL

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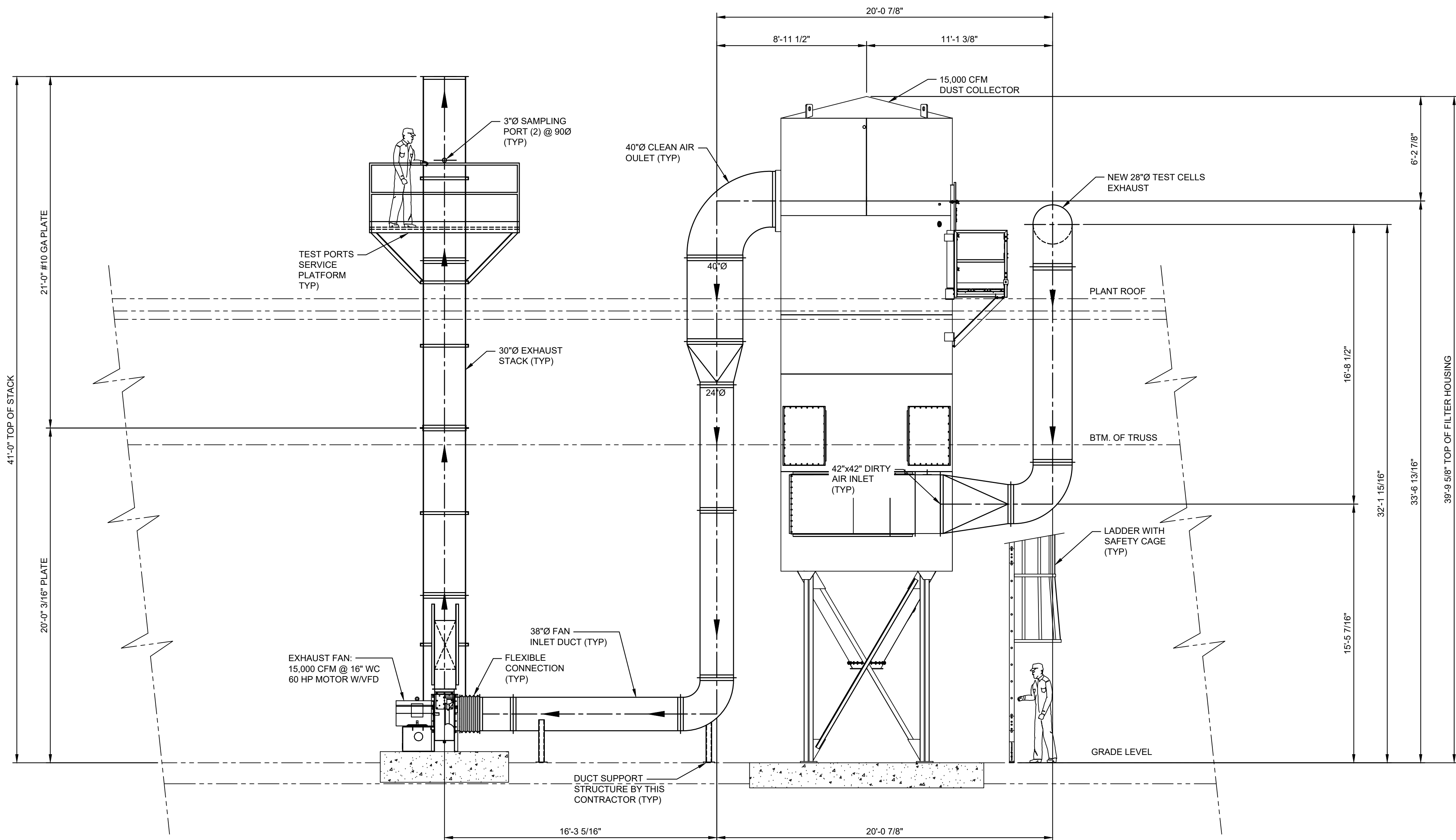
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00	05/08/25		

PROJECT # 2400694.001
PROJECT MANAGER G. GORKOWSKI
DESIGNED BY G. GORKOWSKI
DRAWN BY G. GORKOWSKI
QUALCHECK D. WOOD
SHEET TITLE

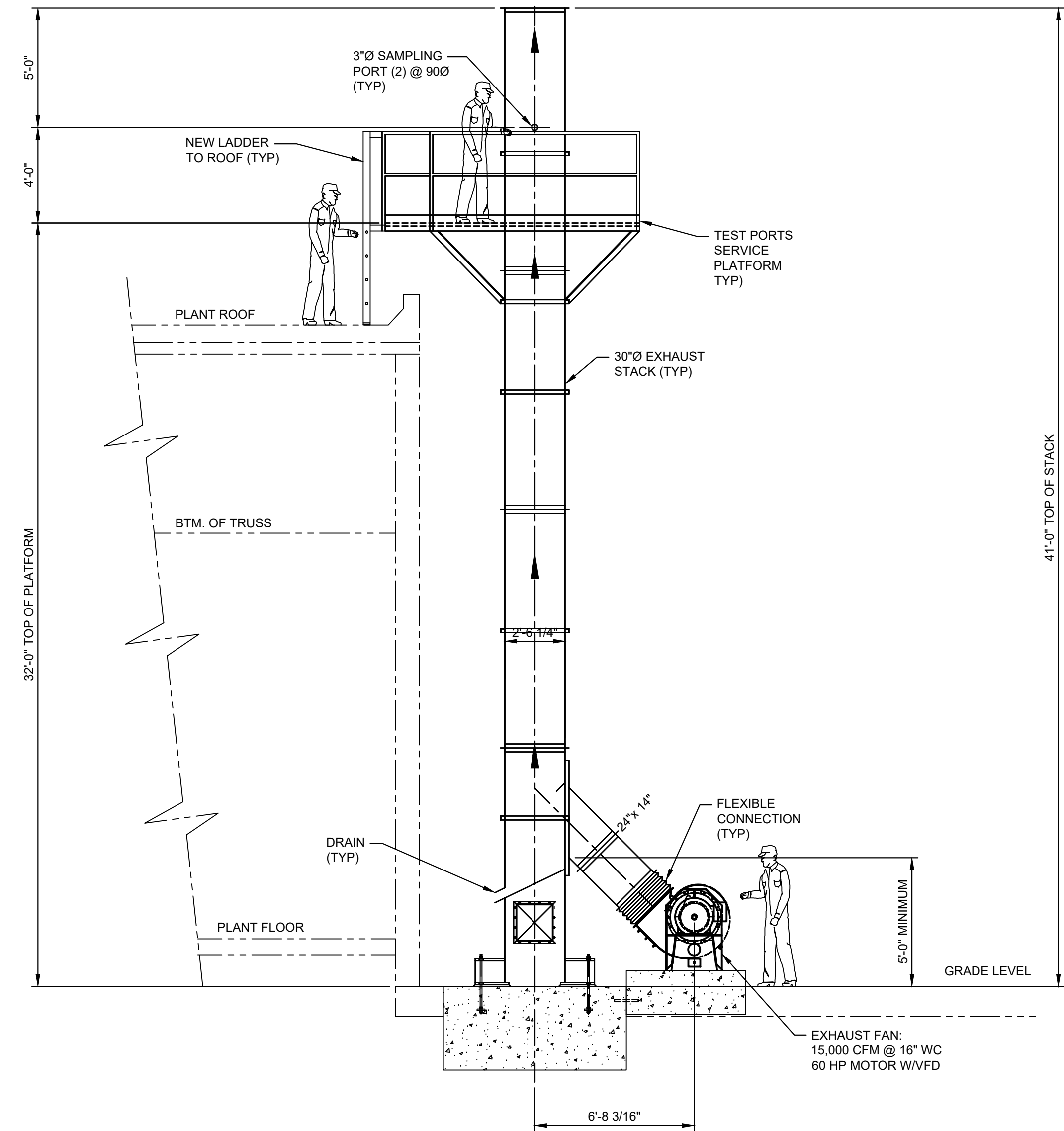
TEST CELLS 73-84
PROCESS EXHAUST
SECTIONS
M-6 M-11

DX3-00-01
SHEET NUMBER

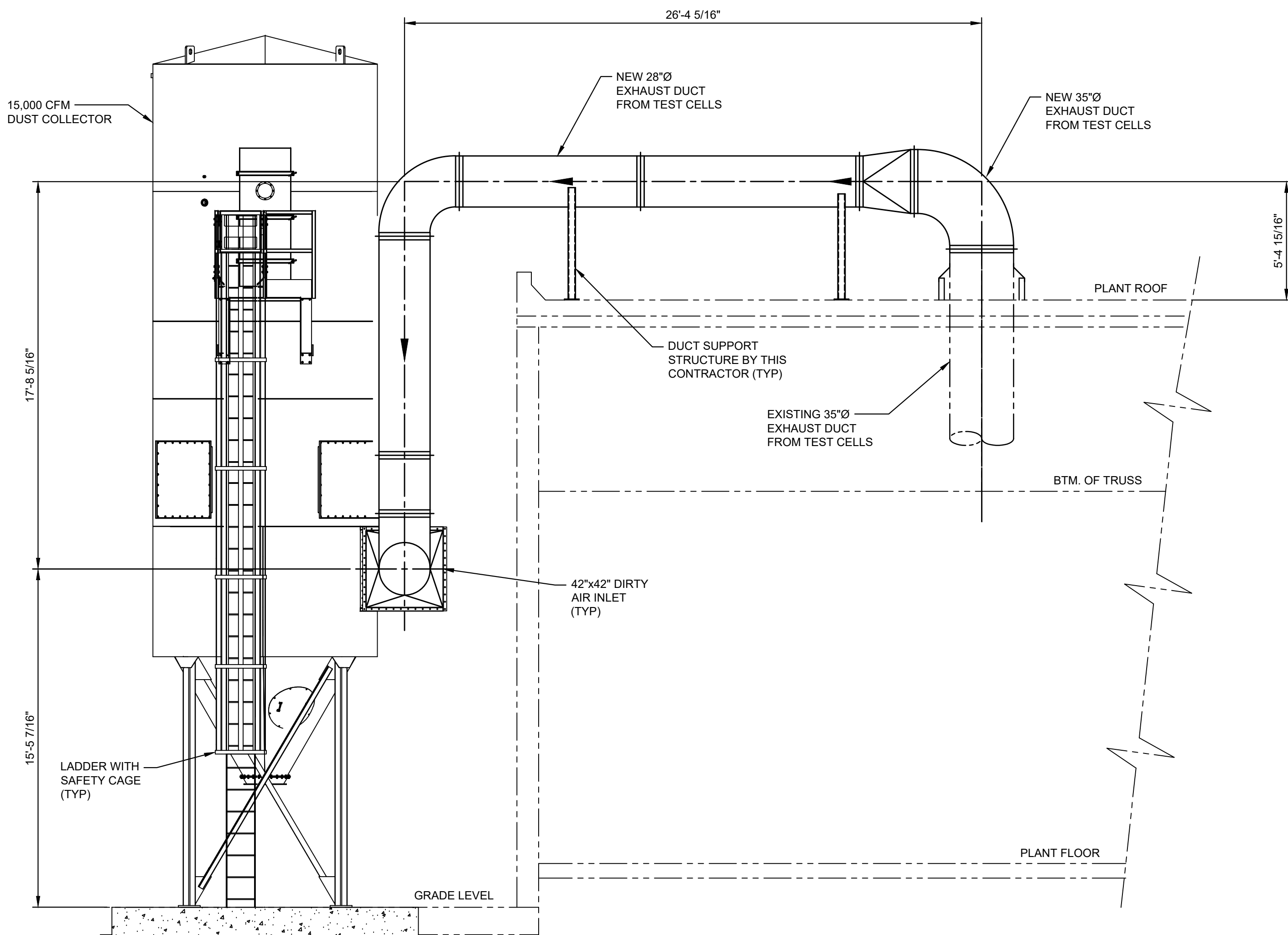
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F PROCESS EXHAUST SECTION VIEW TEST CELLS 101-114
2400694DX4-01-01 SCALE: 1/4"=1'-0"



H PROCESS EXHAUST SECTION VIEW TEST CELLS 101- 114
2400694DX4-01-01 SCALE: 1/4"=1'-0"



G PROCESS EXHAUST SECTION VIEW TEST CELLS 101-114
2400694DX4-01-01 SCALE: 1/4"=1'-0"

- GENERAL NOTES:**
- CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW EXHAUST DUCTWORK. DUCTWORK SHALL BE #16 GA. 304 SS STEEL CONSTRUCTION, WITH THE EXCEPTION OF THE EXHAUST STACK, WHICH IS 3/16" AND #10 GA. SS STEEL CONSTRUCTION.
 - ALL CARBON STEEL SHALL BE CLEANED, PRIMED AND FINISH PAINTED, GALVANIZED, AND STAINLESS STEEL SHALL NOT BE PAINTED.
 - FURNISH AND INSTALL CLEAN-OUT DOORS PER THE LATEST EDITION OF INDUSTRIAL VENTILATION GUIDELINES.
 - CONTRACTOR SHALL FURNISH AND INSTALL ALL DUCT, FLASHINGS TO THE ROOF CURBS, FOR A COMPLETE AND WATERTIGHT INSTALLATION.



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

GHAFARI

17101 MICHIGAN AVENUE
DEARBORN, MI 48128-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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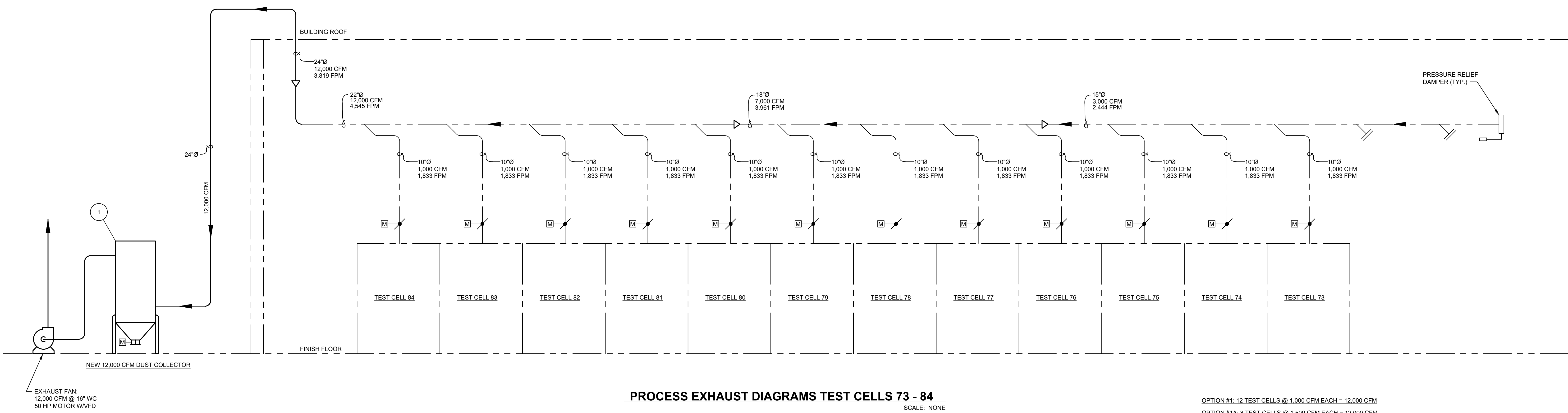
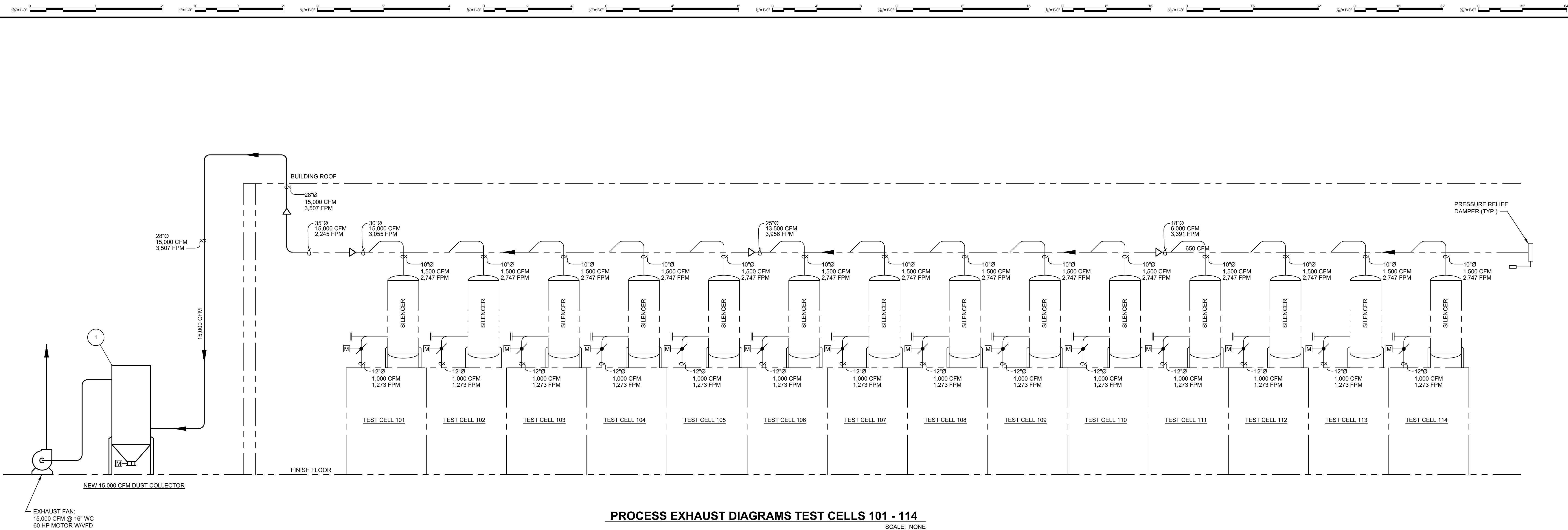
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00	05/08/25		

PROJECT # 2400694.001
PROJECT MANAGER G. GORKOWSKI
DESIGNED BY G. GORKOWSKI
DRAWN BY G. GORKOWSKI
QUALCHECK D. WOOD
SHEET TITLE

TEST CELLS 101-114
PROCESS EXHAUST
SECTIONS
M-6 M-11

DX3-00-02
SHEET NUMBER

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- LEGEND**
- CENTRIFUGAL EXHAUST FAN
 - BLAST GATE
 - FLOW ARROW
 - REDUCER
 - MOTORIZED DAMPER
 - MANUAL DAMPER
 - PRESSURE RELIEF DAMPER

DETROIT

DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

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TEL +1.313.441.3000
www.ghafari.com

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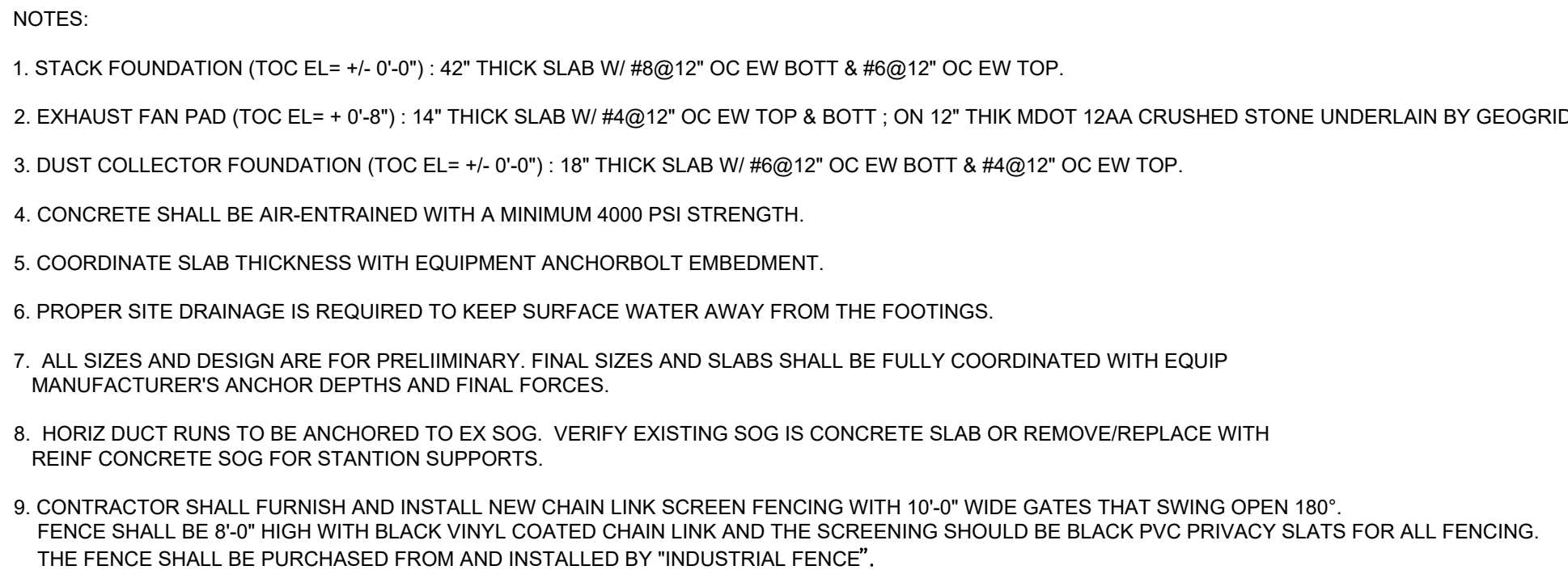
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REV	DATE	DOC REL ## - DESCRIPTION

PROJECT # 2400894.001
PROJECT MANAGER G. GORKOWSKI
DESIGNED BY G. GORKOWSKI
DRAWN BY T. GILLILAND
QUALCHECK D. WOOD
SHEET TITLE

**PROCESS EXHAUST
DIAGRAMS
TEST CELL AREAS
M-6 M-11**

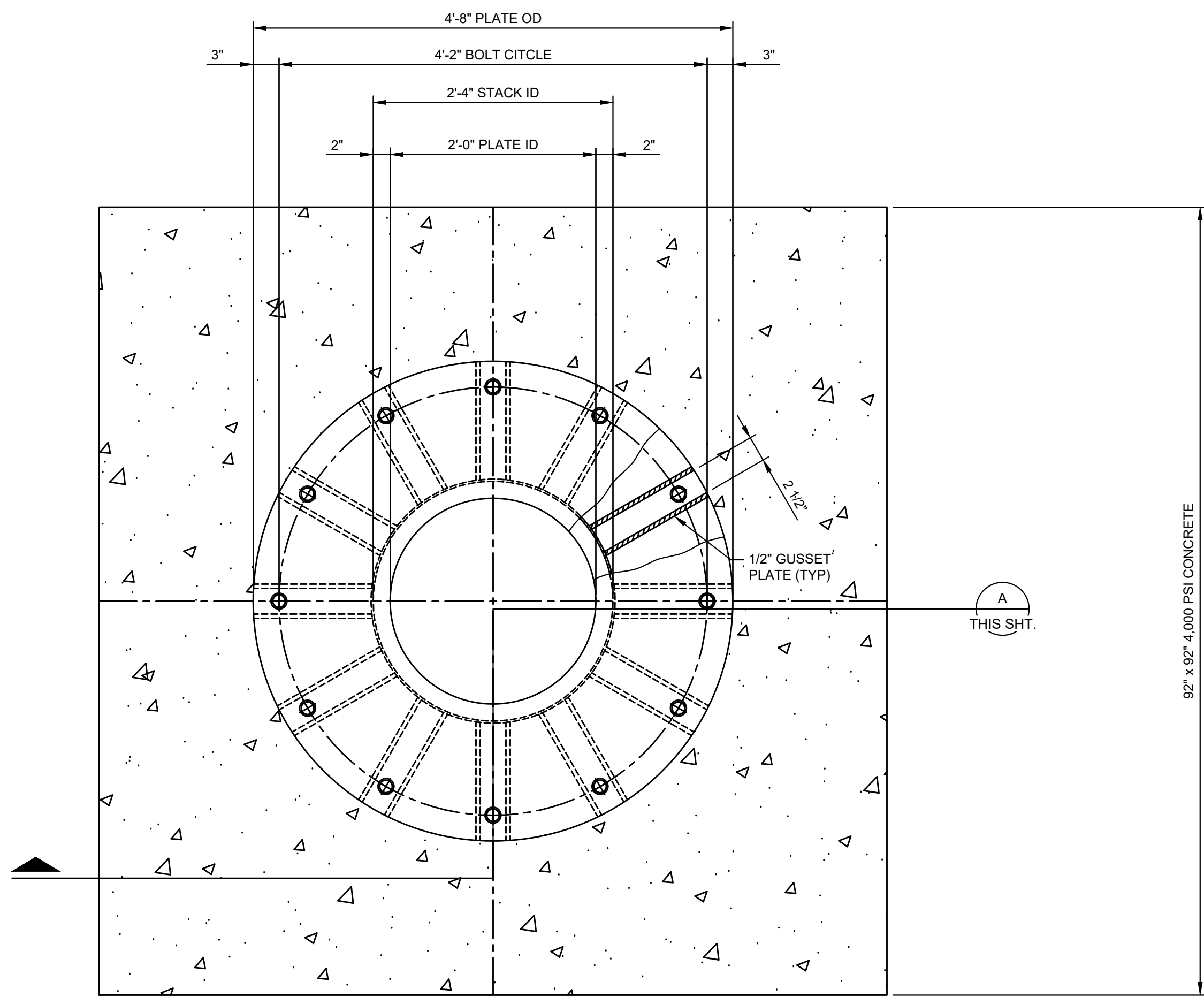
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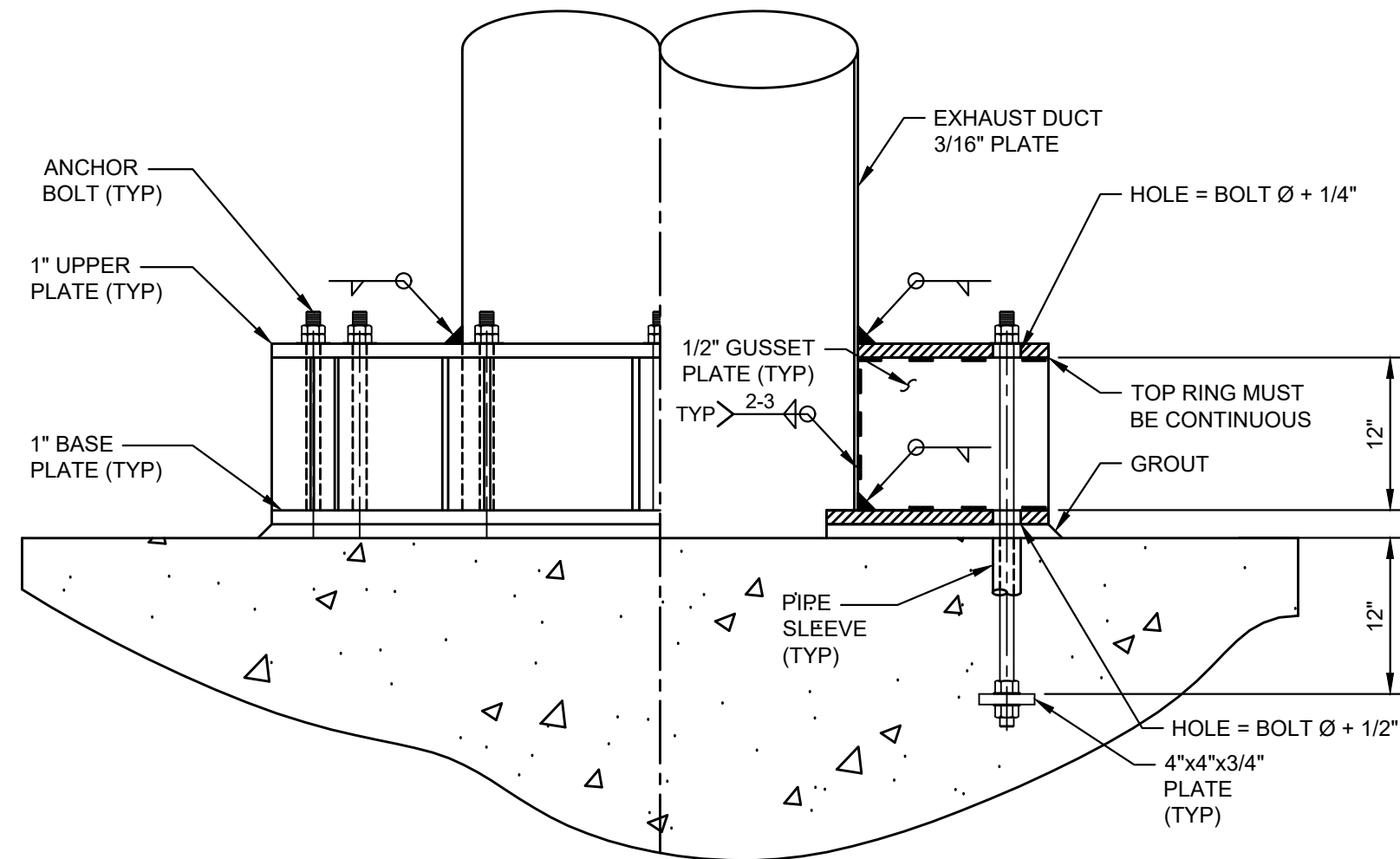
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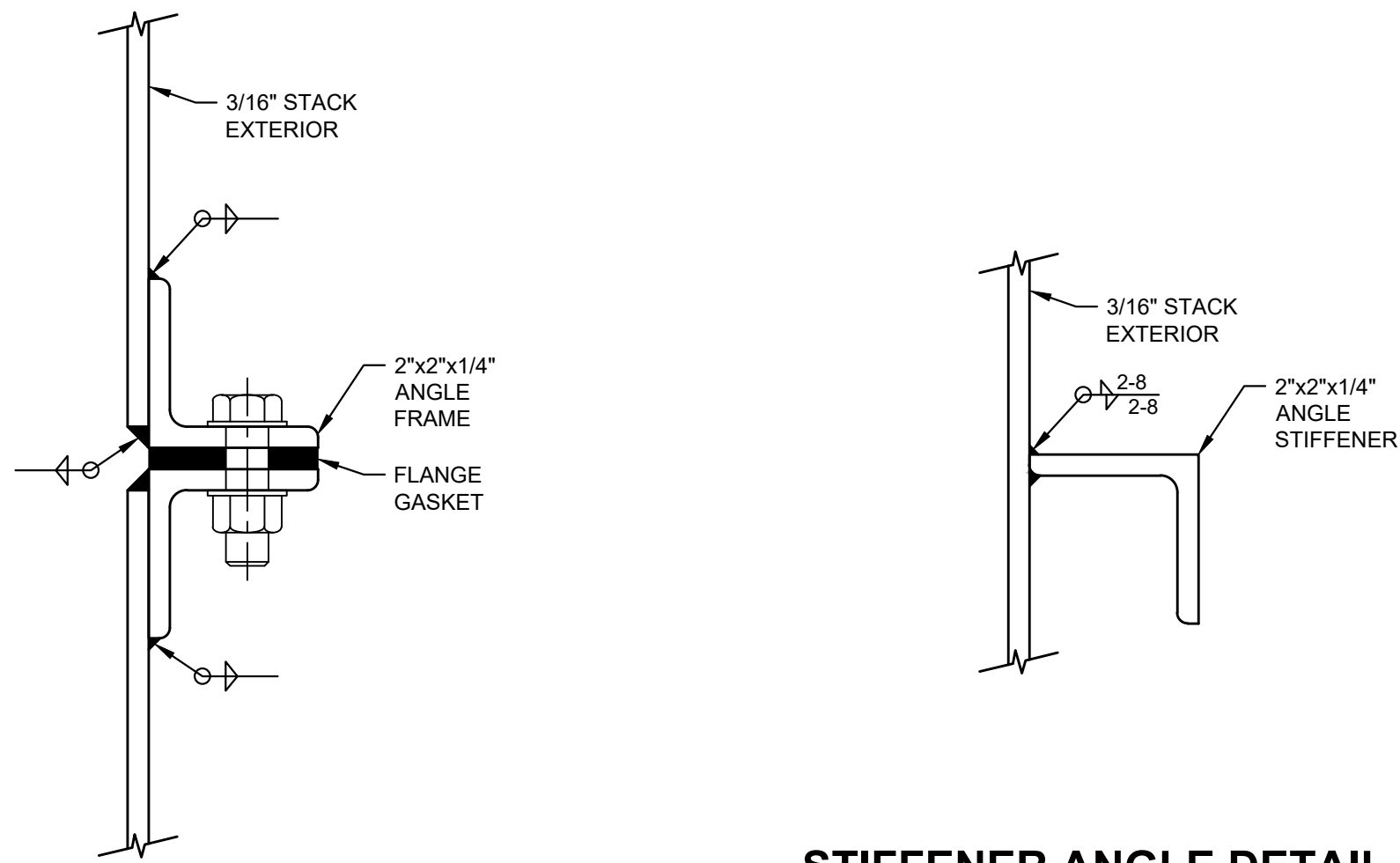
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STACK BASE RING PLATES & GUSSET PLATES PLAN VIEW
SCALE: 1"=1'-0"

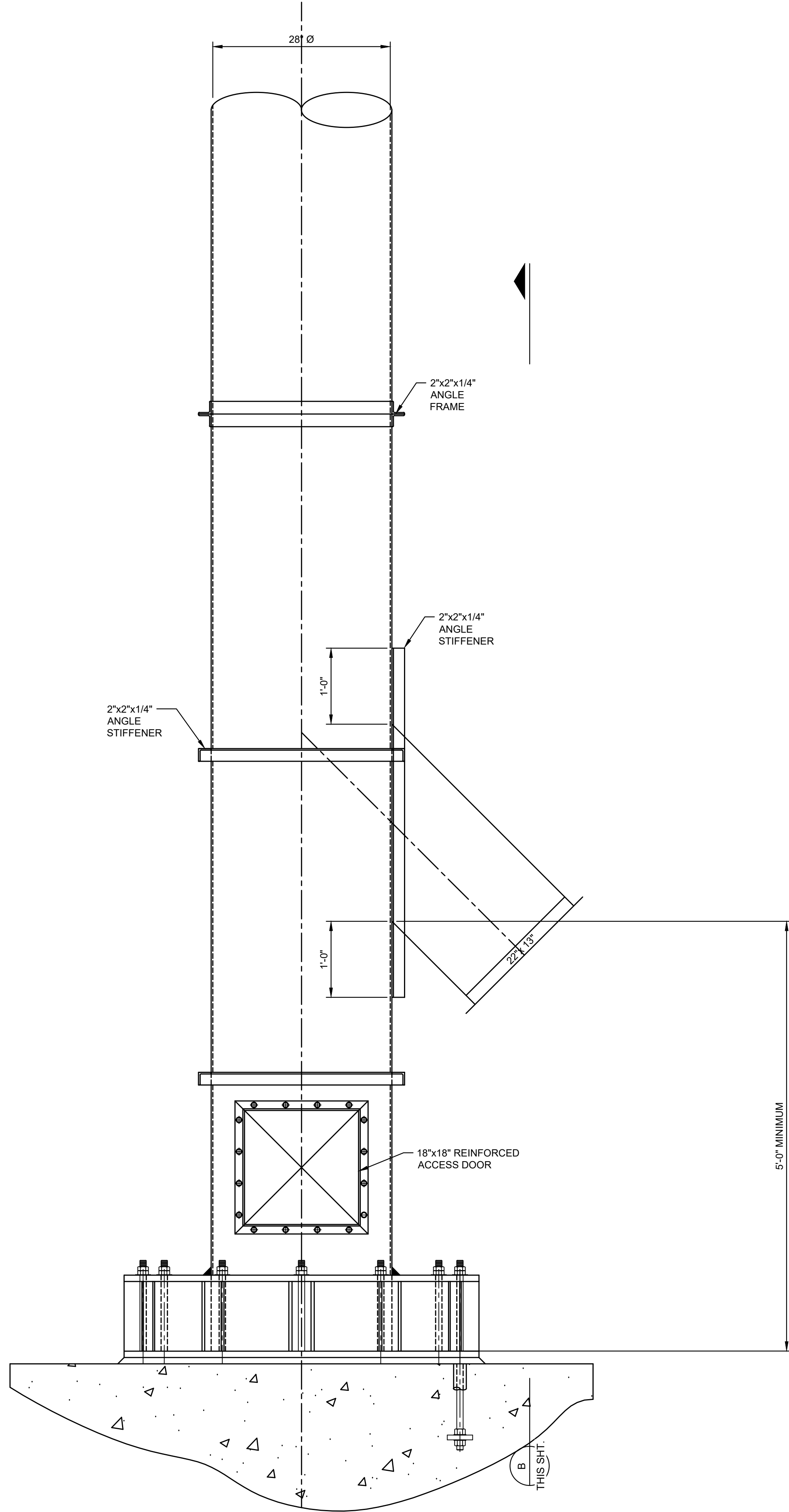


SECTION "A" STACK BASE
THIS SHT.
SCALE: 1"=1'-0"

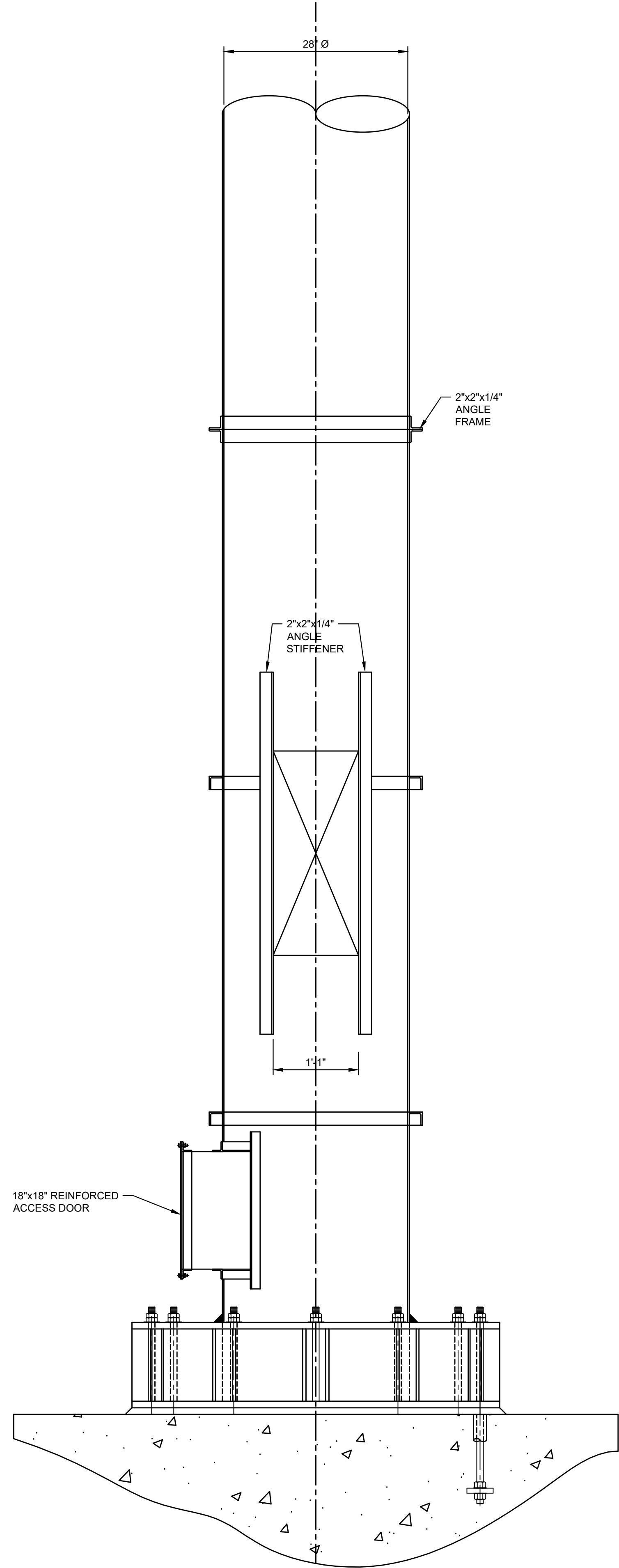


STIFFENER ANGLE DETAIL
SCALE: 6"=1'-0"

COMPANION ANGLES DETAIL
SCALE: 6"=1'-0"



STACK OPENING REINFORCING DETAIL
SCALE: 1"=1'-0"



SECTION "A" STACK OPENING
THIS SHT.
SCALE: 1"=1'-0"

GENERAL NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW FREE STANDING EXHAUST STACK, WHICH IS 3/16" AND 10 GA. SS STEEL CONSTRUCTION.
- ALL CARBON STEEL SHALL BE CLEANED, PRIMED AND FINISH PAINTED. GALVANIZED AND STAINLESS STEEL SHALL NOT BE PAINTED.
- FURNISH AND INSTALL CLEAN-OUT DOORS PER THE LATEST EDITION OF INDUSTRIAL VENTILATION GUIDELINES.
- EXHAUST STACK SHALL BE DESIGNED PER THE LATEST EDITION OF "SMACNA" GUIDE FOR FREE STANDING STEEL STACK CONSTRUCTION.



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

GHAFARI

17101 MICHIGAN AVENUE
DEARBORN, MI 48126-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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REGISTRATION SEAL

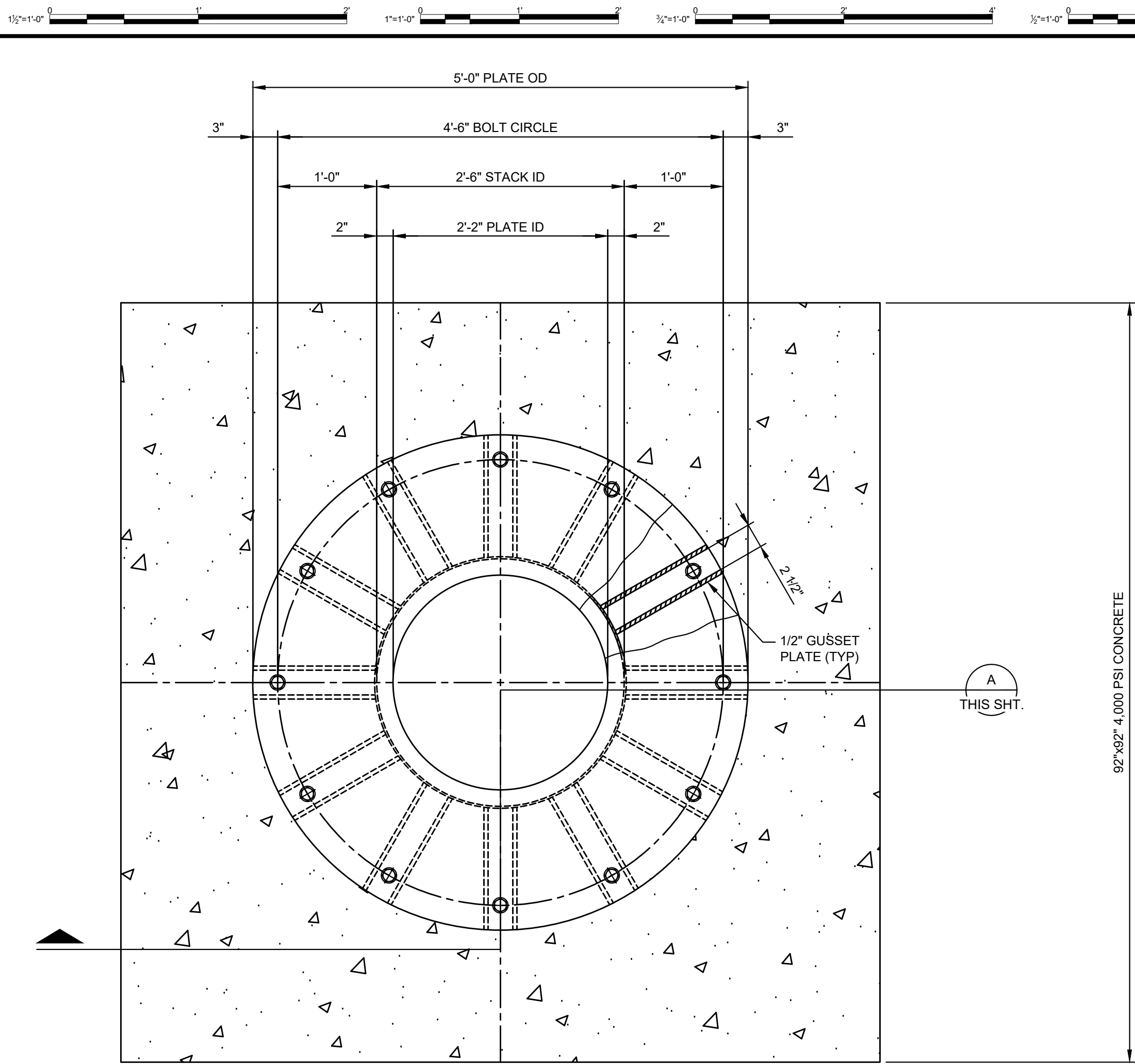
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REV	DATE	ISSUED FOR BID
00	05/08/25	ISSUED FOR BID

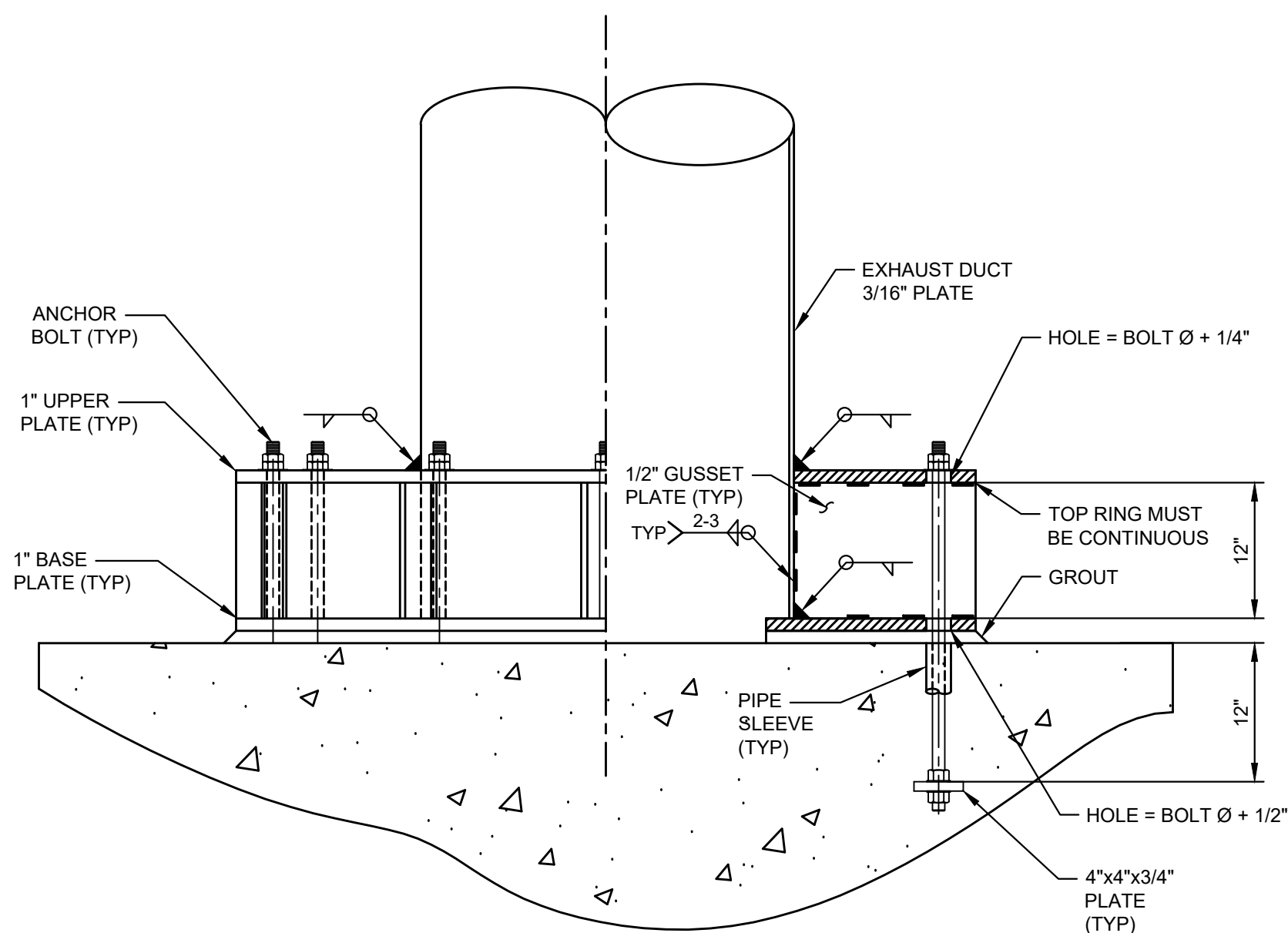
PROJECT #	2400694.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	G. GORKOWSKI
DRAWN BY	G. GORKOWSKI
QUALCHECK	D. WOOD
SHEET TITLE	

TEST CELLS 73-84
PROCESS EXHAUST
CONSTRUCTION DETAILS
M-6 M-11

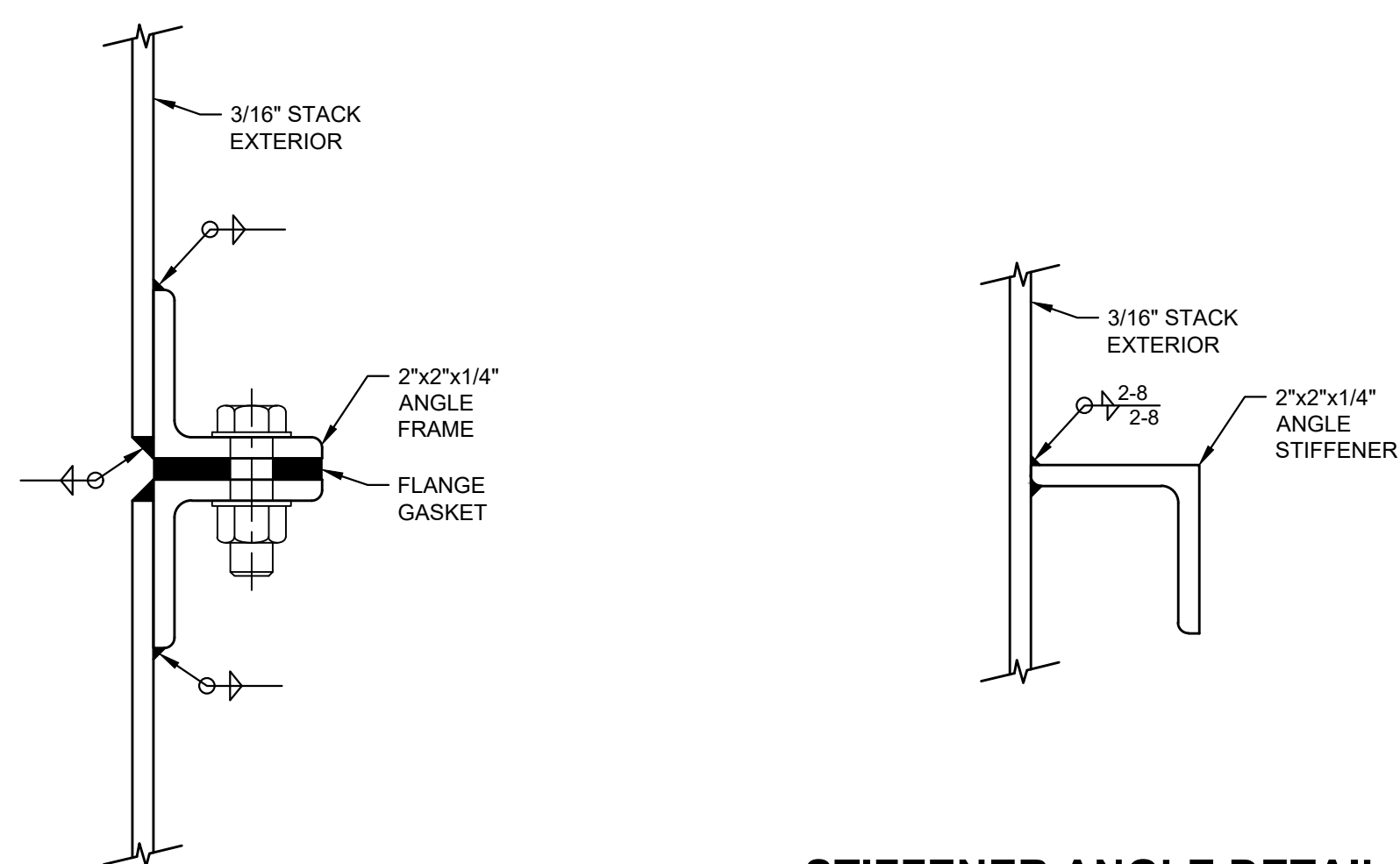
DX5-00-01
SHEET NUMBER



STACK BASE RING PLATES & GUSSET PLATES PLAN VIEW
SCALE: 1"=1'-0"

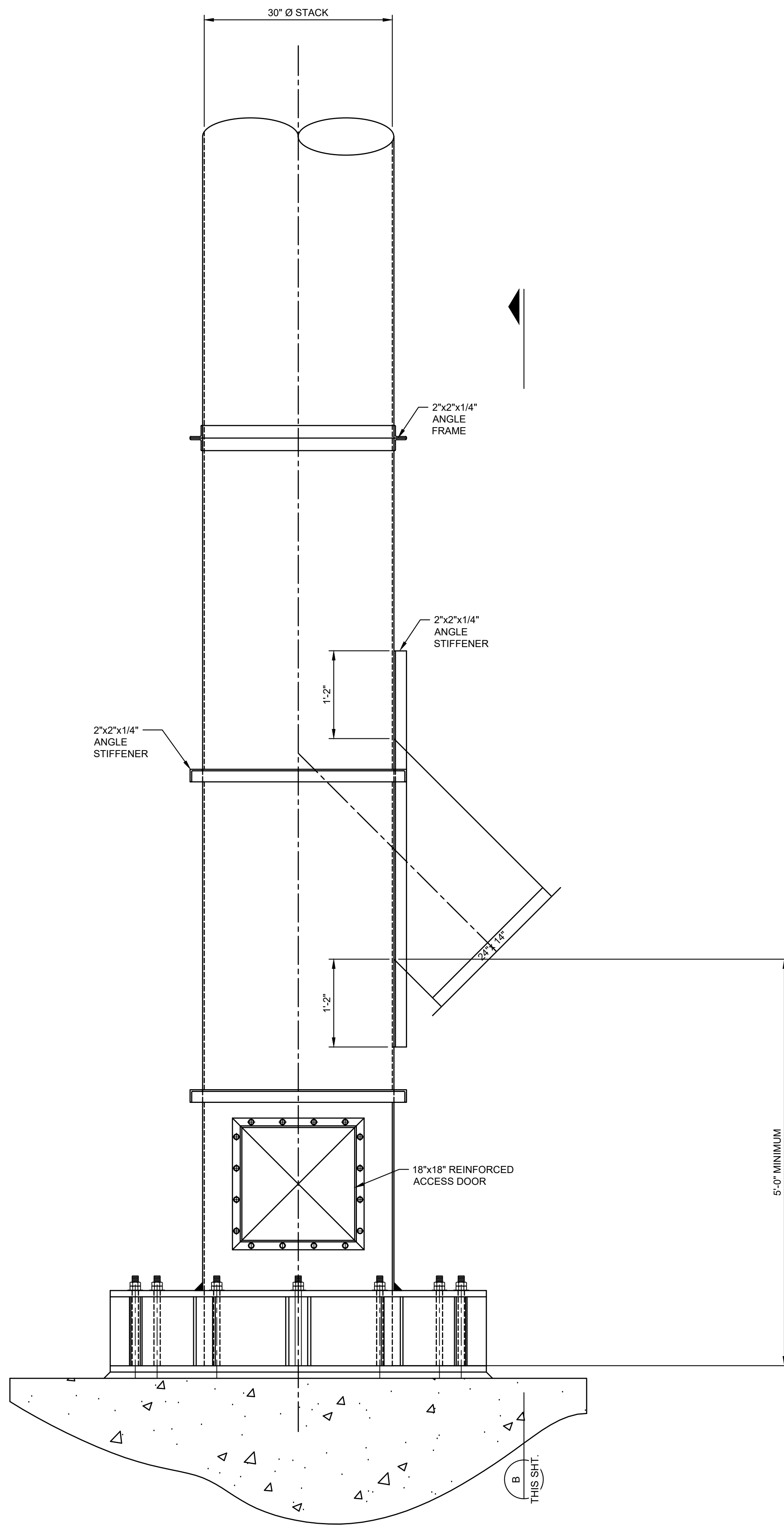


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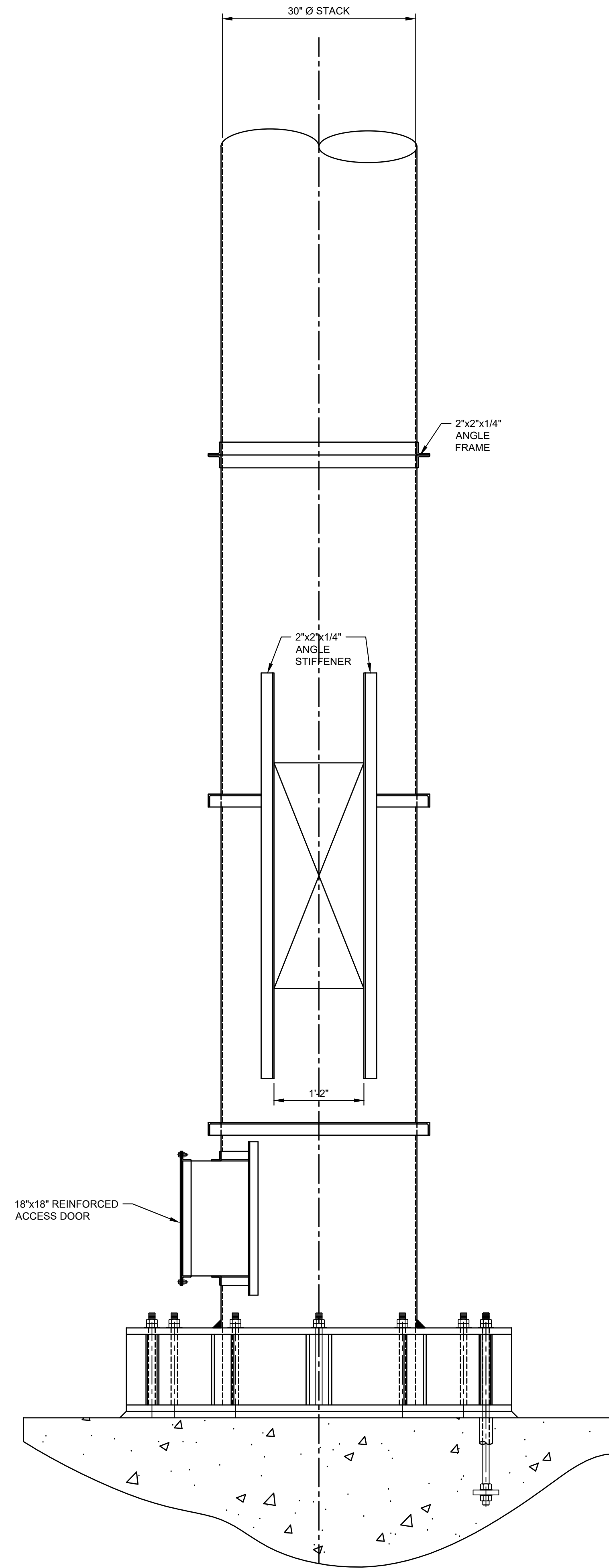


STIFFENER ANGLE DETAIL
SCALE: 6"=1'-0"

COMPANION ANGLES DETAIL
SCALE: 6"=1'-0"



STACK OPENING REINFORCING DETAIL
SCALE: 1"=1'-0"



B SECTION "A" STACK OPENING
THIS SHT.
SCALE: 1"=1'-0"

GENERAL NOTES:

- CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW FREE STANDING EXHAUST STACK, WHICH IS 3/16" AND #10 GA. SS. STEEL CONSTRUCTION.
- ALL CARBON STEEL SHALL BE CLEANED, PRIMED AND FINISH PAINTED, GALVANIZED, AND STAINLESS STEEL SHALL NOT BE PAINTED.
- FURNISH AND INSTALL CLEAN-OUT DOORS PER THE LATEST EDITION OF INDUSTRIAL VENTILATION GUIDELINES.
- EXHAUST STACK SHALL BE DESIGNED PER THE LATEST EDITION OF "SMACNA" GUIDE FOR FREE STANDING STEEL STACK CONSTRUCTION.



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

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17101 MICHIGAN AVENUE
DEARBORN, MI 48128-2736 USA
TEL +1.313.441.3000
www.ghafari.com

CONSULTANT INFORMATION

REGISTRATION SEAL

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REV	DATE	ISSUED FOR BID
00	05/08/25	ISSUED FOR BID

PROJECT #	2400694.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	G. GORKOWSKI
DRAWN BY	G. GORKOWSKI
QUALCHECK	D. WOOD
SHEET TITLE	

TEST CELLS 101-114
PROCESS EXHAUST
CONSTRUCTION DETAILS
M-6 M-11

DX5-00-02
SHEET NUMBER



PHOTO No.01: TEST CELLS 73-84 EXHAUST



PHOTO No.02: TEST CELLS 73-84 EXHAUST



PHOTO No.03: EXISTING ABANDONED EXHAUST DUCTS



PHOTO No.04: EXISTING ABANDONED EXHAUST DUCTS



PHOTO No.05: EXISTING ABANDONED EXHAUST DUCTS



PHOTO No.06: EXISTING ABANDONED EXHAUST DUCTS



PHOTO No.07: TEST CELLS 101-114 EXISTING EXHAUST TEE

DEMOLITION GENERAL NOTES:

- PHOTOS No. 1 & 2: THE CONTRACTOR SHALL REMOVE THE EXISTING DUCTWORK INSULATION, AND REMOVE THE EXISTING 90° ELBOW AND SECTION OF DUCTWORK THAT GOES TO THE ROOF.
- PHOTOS No. 3 & 4: THE CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING ABANDONED TEST CELL DUCTWORK BELOW THE ROOF.
- PHOTOS No. 5 & 6: THE CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING TEST CELL DUCTWORK THROUGH THE ROOF CURB AND UP TO THE FLANGED CONNECTION ON THE EXISTING SYSTEM INLET BOX AND CAP THE EXISTING OPENING WATERTIGHT. THE EXISTING ROOF CURB CAP SHALL BE REPLACED WITH A NEW CURB CAP SUITED TO THE ONE NEW DUCT FROM TEST CELLS 73-84 THAT WILL BE ROUTED THROUGH THIS EXITING ROOF OPENING.
- PHOTOS No. 6 & 8: THE CONTRACTOR SHALL COMPLETELY REMOVE THE EXISTING EXHAUST TEE AND BLAST GATE TYPE DAMPER ON BOTH SIDES OF THE EXISTING TEE AND REMOVE A SMALL SECTION OF THE EXISTING EXHAUST DUCT TO THE FIRST FLANGE AND CAP THE DUCT OPEN END WATERTIGHT. THE CONTRACTOR SHALL REMOVE THE EXISTING DIAGONAL BRACING AS REQUIRED TO ACCOMMODATE THE NEW 90° ELBOW THAT MUST BE INSTALLED.



DETROIT DIESEL
12200 TELEGRAPH ROAD
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TEST CELL EXHAUST
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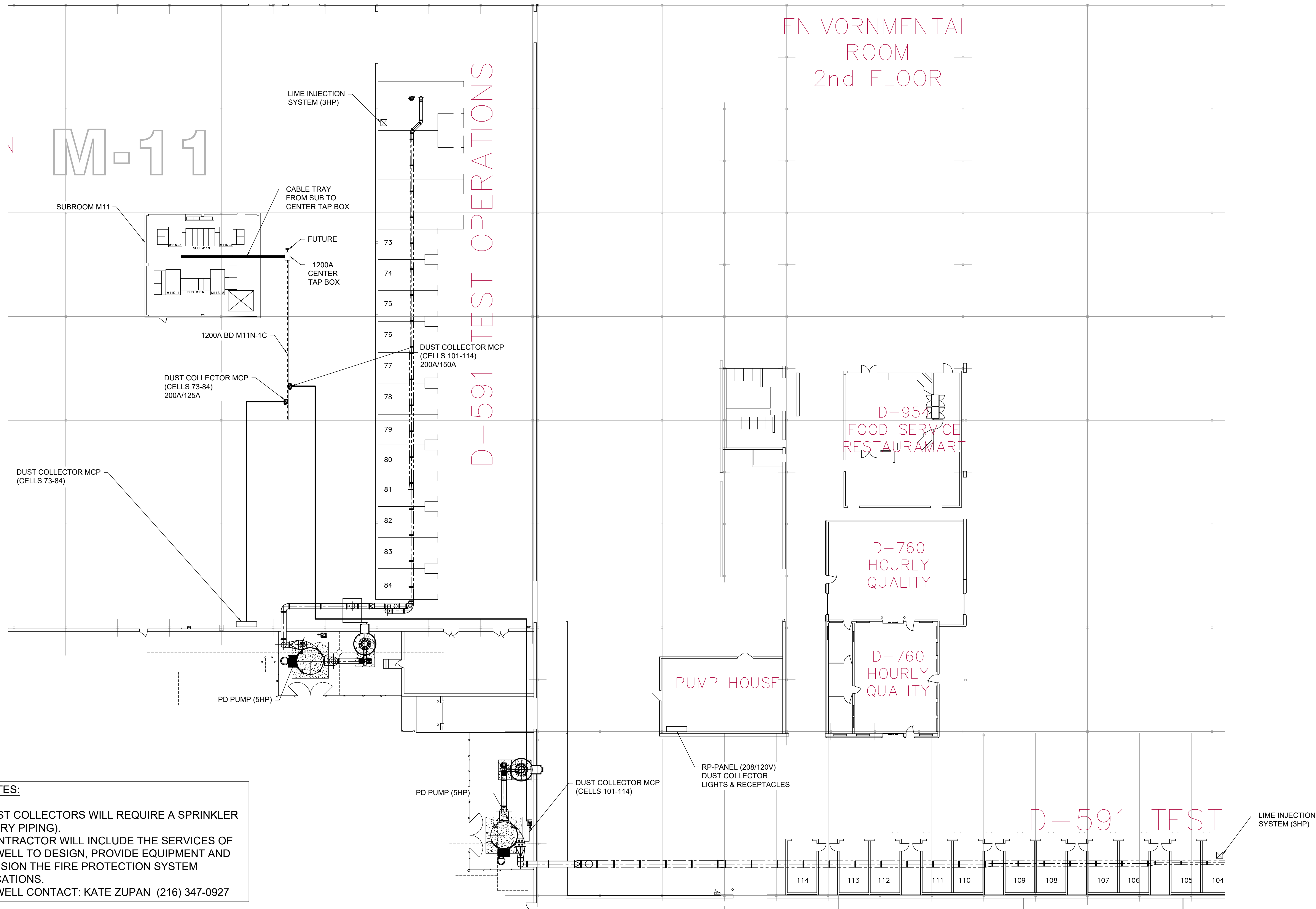
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REV	DATE	DOC REL ## - DESCRIPTION

PROJECT #	2400694.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	G. GORKOWSKI
DRAWN BY	T. GILLILAND
QUALCHECK	D. WOOD
SHEET TITLE	

TEST CELLS EXISTING
PROCESS EXHAUST
DEMOLITION PHOTOS
M-6 M-11

DD1-01-01
SHEET NUMBER

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GENERAL NOTES:

1. THE DUST COLLECTORS WILL REQUIRE A SPRINKLER HEAD (DRY PIPING).
2. THE CONTRACTOR WILL INCLUDE THE SERVICES OF HONEYWELL TO DESIGN, PROVIDE EQUIPMENT AND COMMISSION THE FIRE PROTECTION SYSTEM MODIFICATIONS.
3. HONEYWELL CONTACT: KATE ZUPAN (216) 347-0927



PROCESS EXHAUST ELECTRICAL OVERVIEW (TEST CELLS 73- 84 & 101-114)

SCALE: 1/16"=1'-0"



DETROIT

DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

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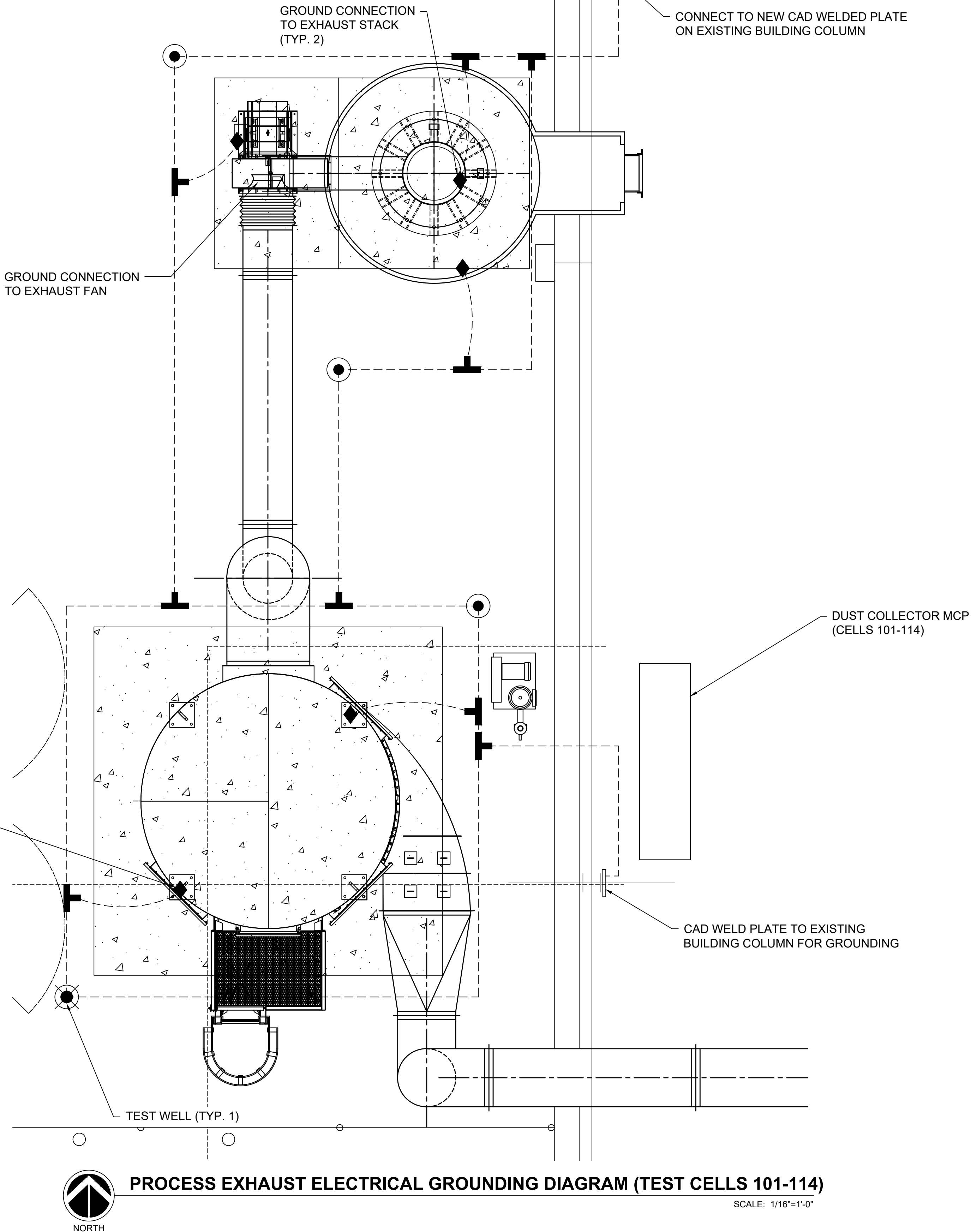
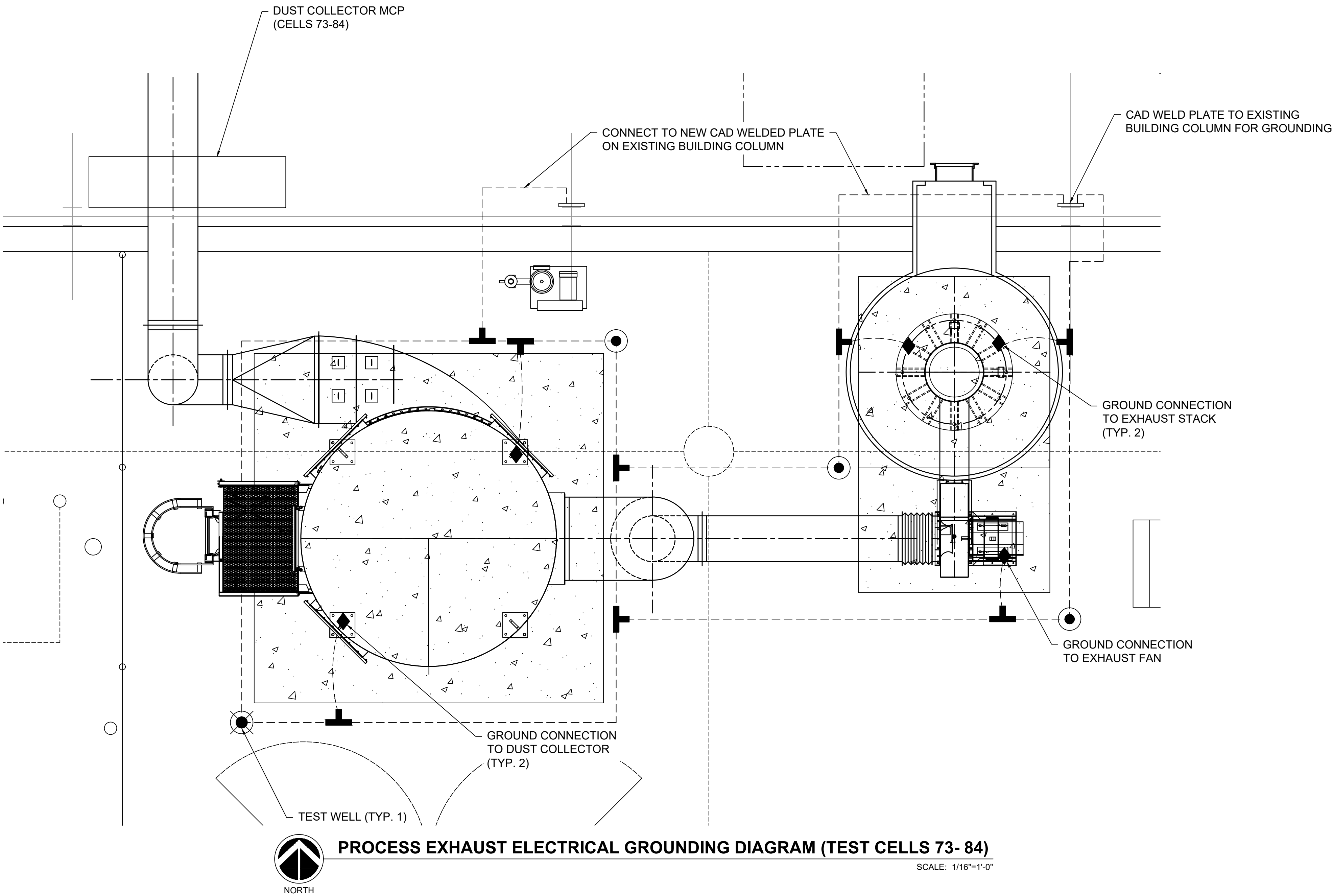
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REV	DATE	DOC REL ## - DESCRIPTION

PROJECT #	2400894.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	D. JORDAN
DRAWN BY	D. GIELAROWSKI
QUALCHECK	D. WOOD
SHEET TITLE	

TEST CELLS
PROCESS EXHAUST
ELECTRICAL OVERVIEW
M-6 M-11

DE1-01-01
SHEET NUMBER



GROUNDING LEGEND

- EXOTHERMIC WELD T CONNECTION
- EXOTHERMIC WELD X CONNECTION
- ELECTRICAL EQUIPMENT CONNECTION - 10'-0" OF #4/0 BARE COPPER GROUND CONDUCTOR FOR EACH CONNECTION. 1" SCHEDULE 80 PVC CONDUIT UP THROUGH CONCRETE PAD FOR CONNECTION TO THE DUST COLLECTOR, EXHAUST FAN AND EXHAUST STACK AS SHOWN.
- GROUND ROD MIN. 3/4" X 15'-0" LONG
- MECHANICAL CONNECTION
- TEST WELL
- UNDERGROUND GROUND WIRE (BARE #4/0 COPPER)



DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
REDFORD TWP.

GHAFARI

17101 MICHIGAN AVENUE
DEARBORN, MI 48128-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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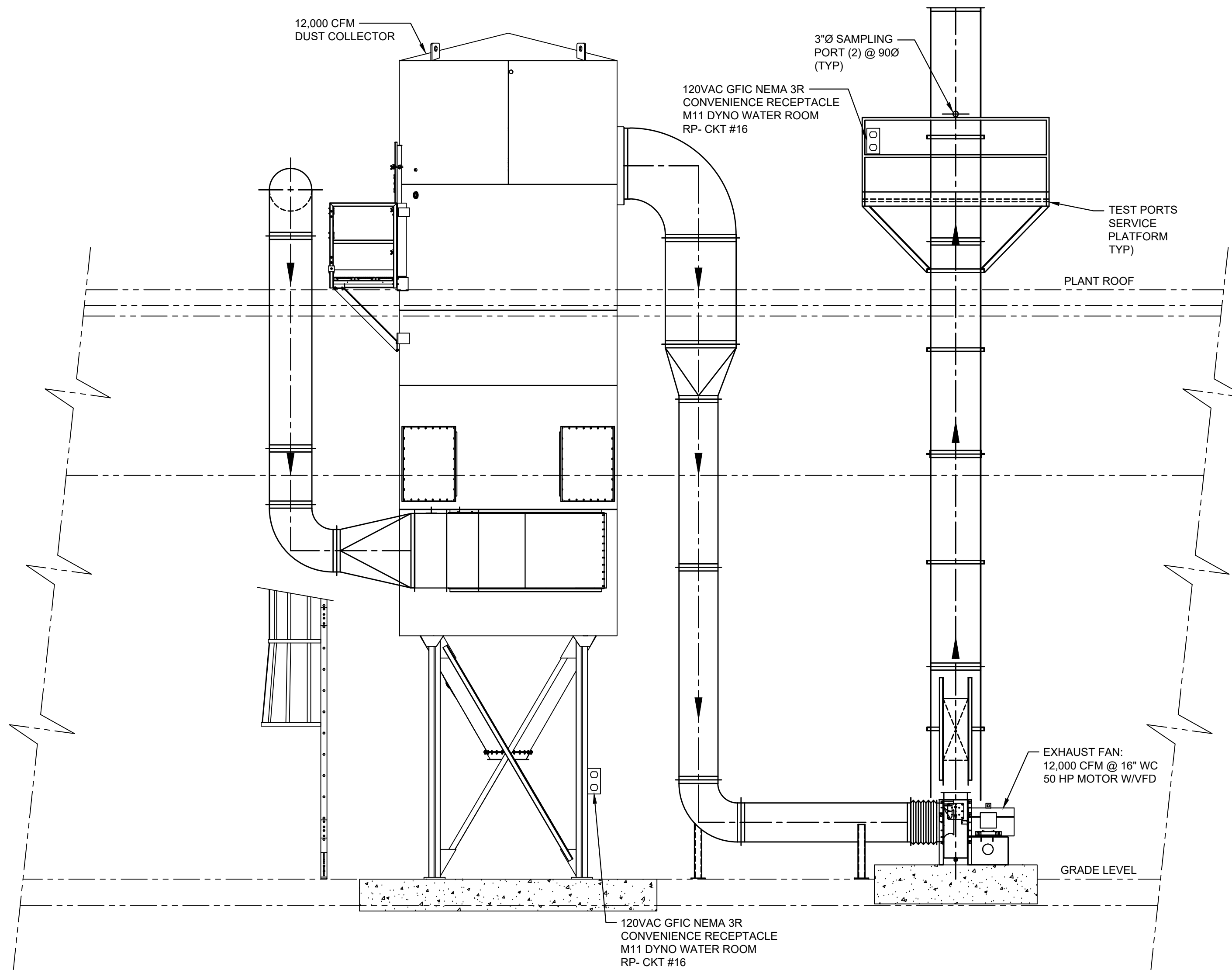
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PROJECT #	2400694.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	D. JORDAN
DRAWN BY	D. GIELAROWSKI
QUALCHECK	D. WOOD
SHEET TITLE	

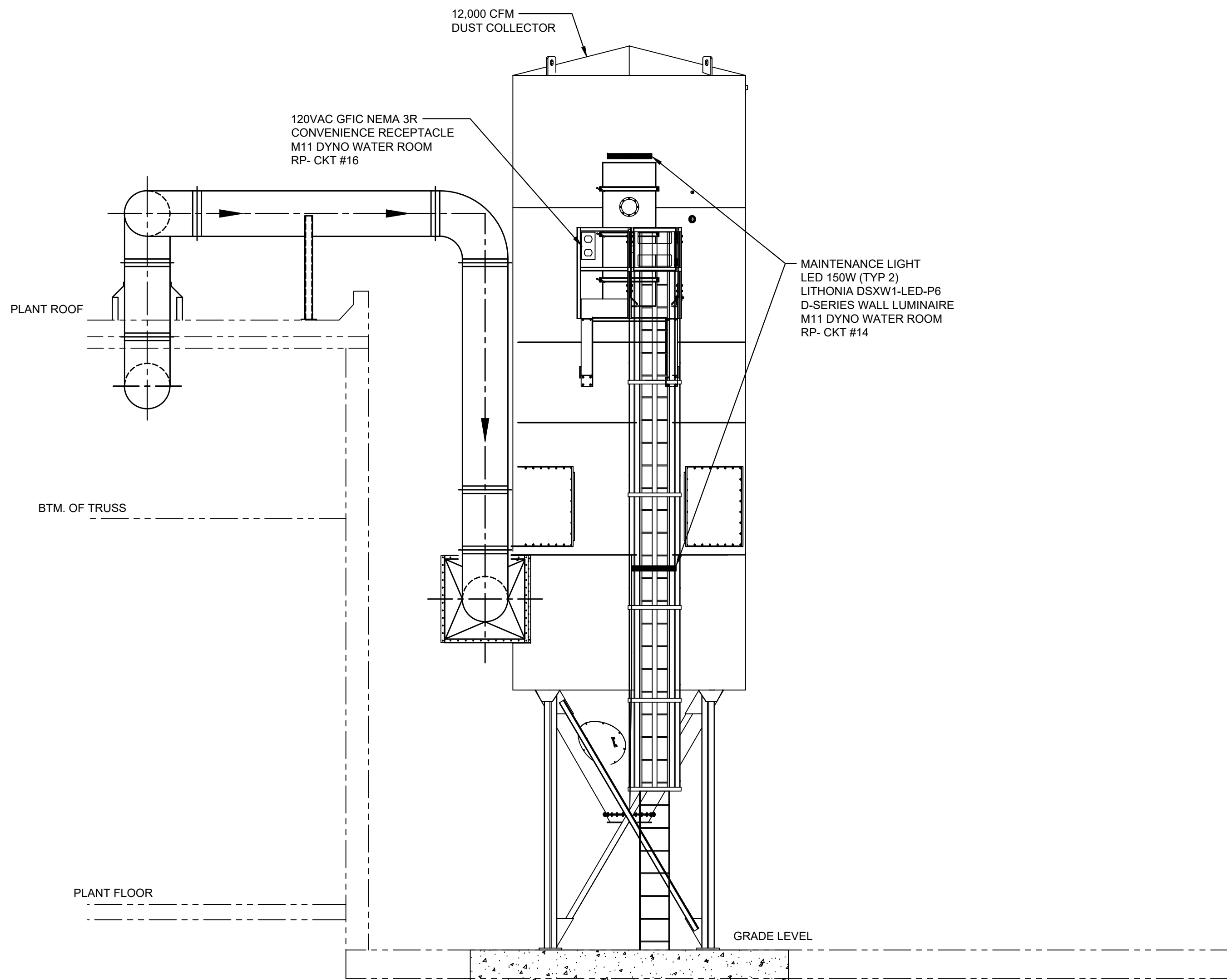
TEST CELLS
PROCESS EXHAUST
ELECTRICAL GROUNDING
LAYOUT

DE1-01-02
SHEET NUMBER

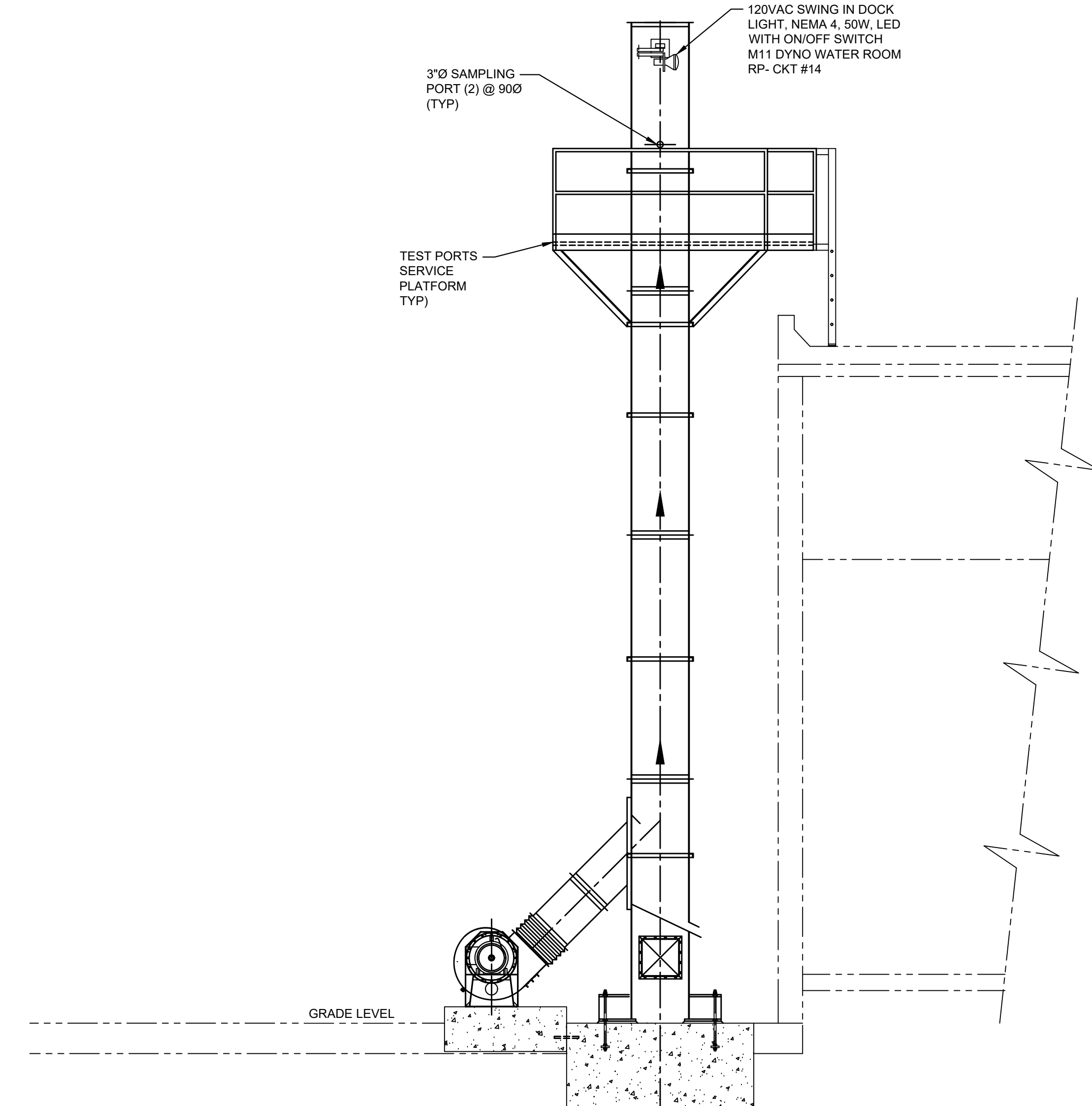
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GORKOWSKI
5/8/2025 6:59:11 AM
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A PROCESS EXHAUST (TEST CELLS 73-84) DUST COLLECTOR LIGHTING & RECEPTACLES
2400694DX4-01-01
SCALE: 1/16"=1'-0"



B PROCESS EXHAUST (TEST CELLS 73-84) DUST COLLECTOR LIGHTING & RECEPTACLES
2400694DX4-01-01
SCALE: 1/16"=1'-0"



C PROCESS EXHAUST (TEST CELLS 73-84) DUST COLLECTOR LIGHTING & RECEPTACLES
2400694DX4-01-01
SCALE: 1/16"=1'-0"



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REV	DATE	DOC REL ## - DESCRIPTION

PROJECT #	2400694.001
PROJECT MANAGER	G. GORKOWSKI
DESIGNED BY	D. JORDAN
DRAWN BY	D. GIELAROWSKI
QUALCHECK	J. MCLAUGHLIN
SHEET TITLE	

**TEST CELLS
PROCESS EXHAUST
DUST COLLECTOR
LIGHTING & RECEPTACLES**

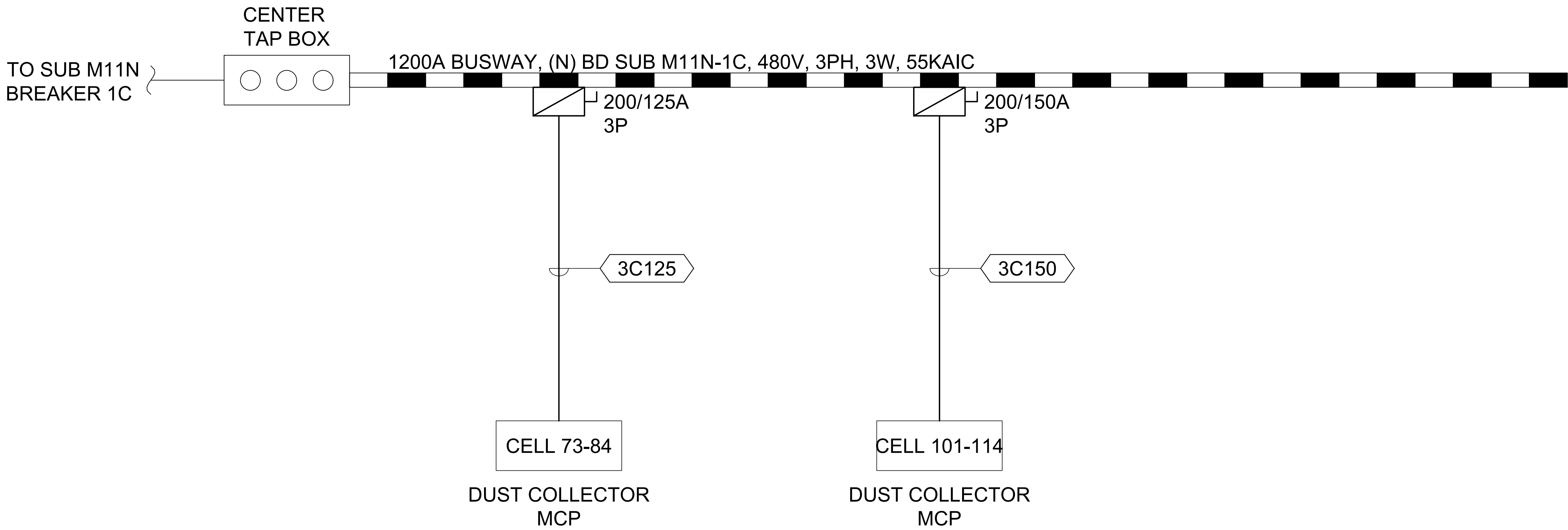
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SCALE: 1/16"=1'-0"

DE6-00-01
SHEET NUMBER

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PROCESS EXHAUST (TEST CELLS 73 - 84 & 101-114) BUS DUCT BD M11N-1C DETAILS

SCALE: 1/16"=1'-0"

GENERAL NOTES:

1. THE OWNER WILL BE SUPPLYING THE SUBSTATION FEEDER BREAKER AND (5) SECTIONS OF POW-R-WAY III BUS DUCT
2. THE CONTRACTOR SHOULD INCLUDE A CENTER TAP BOX, END CAPS, BUS PLUGS, CABLE TRAY, HANGERS, BRACING AND ALL RELATED HARDWARE FOR A COMPLETE AND FUNCTIONAL BUSWAY SYSTEM.
3. THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUSWAY CONNECTORS PRIOR TO INSTALLATION.
4. THE CONTRACTOR SHOULD INCLUDE THE BUS PLUG FUSES.
5. PROVIDE EXTRA CABLE FROM FEEDER BREAKER TO CENTER TAP BOX TO ACCOMMODATE FUTURE SUBSTATION AND BREAKER REPLACEMENT.



DETROIT

DETROIT DIESEL
12200 TELEGRAPH ROAD
REDFORD TOWNSHIP, MI 48239

TEST CELL EXHAUST
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17101 MICHIGAN AVENUE
DEARBORN, MI 48126-2736 USA
TEL +1.313.441.3000
www.ghafari.com

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FEEDER AND BRANCH CIRCUIT SCHEDULE (COPPER)

OVERCURRENT DEVICE RATING (AMPS)	CIRCUIT CODE	CONDUCTOR & CONDUIT SIZE (3-WIRE SYSTEM)
15	3C15	3 #12 & 1 #12 GND IN 3/4"C
20	3C20	3 #12 & 1 #12 GND IN 3/4"C
25	3C25	3 #10 & 1 #10 GND IN 3/4"C
30	3C30	3 #10 & 1 #10 GND IN 3/4"C
35	3C35	3 #8 & 1 #10 GND IN 3/4"C
40	3C40	3 #8 & 1 #10 GND IN 3/4"C
45	3C45	3 #6 & 1 #10 GND IN 1"C
50	3C50	3 #6 & 1 #10 GND IN 1"C
60	3C60	3 #4 & 1 #10 GND IN 1"C
70	3C70	3 #4 & 1 #8 GND IN 1"C
80	3C80	3 #3 & 1 #8 GND IN 1-1/2"C
90	3C90	3 #2 & 1 #8 GND IN 1-1/2"C
100	3C100	3 #1 & 1 #8 GND IN 1-1/2"C
110	3C110	3 #1 & 1 #6 GND IN 1-1/2"C
125	3C125	3 #1 & 1 #6 GND IN 1-1/2"C
150	3C150	3 #1/0 & 1 #6 GND IN 1-1/2"C
175	3C175	3 #2/0 & 1 #6 GND IN 2"C
200	3C200	3 #3/0 & 1 #6 GND IN 2"C
225	3C225	3 #4/0 & 1 #4 GND IN 2"C
250	3C250	3-250 KCMIL & 1 #4 GND IN 2 1/2"C
300	3C300	3-350 KCMIL & 1 #4 GND IN 3"C
350	3C350	3-500 KCMIL & 1 #3 GND IN 3"C
400	3C400	(2) 3 #3/0 & 1 #2 GND IN 2"C

00	05/08/25	ISSUED FOR BID
REV	DATE	DOC REL ## - DESCRIPTION

PROJECT # 2400894.001
PROJECT MANAGER G. GORKOWSKI
DESIGNED BY D. JORDAN
DRAWN BY D. GIELAROWSKI
QUALCHECK J. MCLAUGHLIN
SHEET TITLE

TEST CELLS
PROCESS EXHAUST
BUS DUCT BD M11N-2B
ELECTRICAL DETAIL

DE6-00-02
SHEET NUMBER

GENERAL NOTES:

1. THE CONTRACTOR SHOULD INCLUDE LABOR TO IDENTIFY ALL CURRENT RECEPTACLE PANEL CIRCUITS AND DOCUMENT ON THE RP TABLE BELOW.



DE6-00-03
SHEET NUMBER