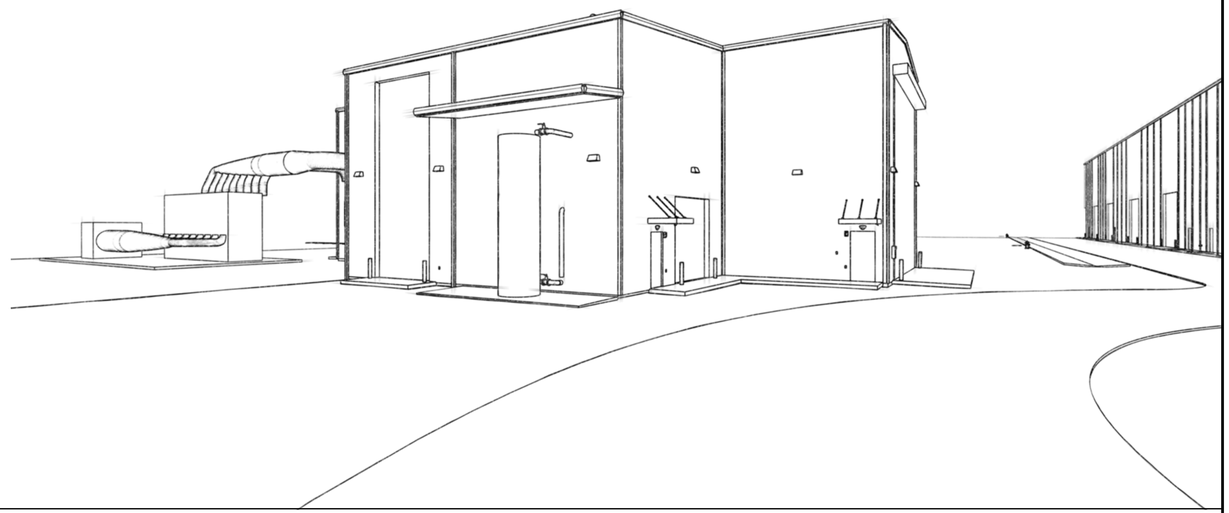
NEW BLAST FACILITY FOR

LEXICON INC.

8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

1 NOVEMBER 24

CONSTRUCTION DOCUMENTS



BUILDING CODE ANALYSIS

GENERAL PROJECT DESCRIPTION:

NEW ONE STORY 6,165 SF SHOP BUILDING, PRE-ENGINEERED METAL BUILDING. METAL PANEL ROOF AND SIDING ALL ON A SLAB-ON-GRADE FOUNDATION, NON-SPRINKLERED.

APPLICABLE CODES:

BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE
FIRE CODE:	2021 INTERNATIONAL FIRE CODE
MECHANICAL CODE:	2021 ARKANSAS STATE MECHANICAL CODE
PLUMBING CODE:	2018 ARKANSAS STATE PLUMBING CODE
ELECTRICAL CODE:	2020 NATIONAL ELECTRICAL CODE LITTLE ROCK CODE OF ORDINANCES, CHAPTER 8, REVISED
ENERGY CODE:	ARKANSAS ENERGY CODE RULES OR ASHRAE 90.1 2011 EDITION (BASED ON 2009 INTERNATIONAL ENERGY CODE)
ACCESSIBILITY:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN 2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

OCCUPANCY CLASSIFICATION:
GROUP F-2, LOW-HAZARD FACTORY INDUSTRIAL

TYPE OF CONSTRUCTION (CHAPTER 6 & TABLE 601)
TYPE IIB, UNPROTECTED, NON-SPRINKLERED

ALLOWABLE HEIGHTS & AREAS (TABLE 504.3)
GROUP F-2

MAXIMUM ALLOWABLE HEIGHT:	55'-0"
PROPOSED HEIGHT:	39'-4" AT RIDGE
MAXIMUM NUMBER OF STORIES:	3
PROPOSED STORIES:	1
MAXIMUM AREA:	UNLIMITED AREA PER SECTION 507.3
PROPOSED NEW BUILDING AREA:	6,165 SF

OCCUPANCY LOAD (TABLE 1004.5)

INDUSTRIAL AREAS (100 SF / PERSON)	
6,165 SF:	61 OCCUPANTS

MEANS OF EGRESS:

EXITS REQUIRED:	2 (SECTION 1006, TABLE 1006.3.3)
MAX TRAVEL DISTANCE ALLOWED:	300'-0" (TABLE 11017.2)

FIRE RESISTANCE RATINGS (TABLE 601)

STRUCTURAL FRAME:	0 HR
BEARING WALLS (INTERIOR / EXTERIOR)	0 HR
NONBEARING WALLS (INTERIOR / EXTERIOR)	0 HR
FLOOR CONSTRUCTION:	0 HR
ROOF CONSTRUCTION:	0 HR

PROTECTIVE OPENINGS:
ALL OPENINGS IN RATED ASSEMBLIES SHALL CONFORM TO REQUIREMENTS OF TABLE 716.1(1-3)

GLASS AND GLAZING:
1. ALL GLASS AND GLAZING SHALL CONFORM TO REQUIREMENTS OF IBC CHAPTER 24.
2. SAFETY GLAZING SHALL CONFORM TO IBC SECTION 2406 OF THE IBC.

INDEX OF DRAWINGS

WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN

18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, ARKANSAS 72205
501.224.1900
WWW.WILLIAMSDEAN.COM

CIVIL
HOPE CONSULTING ENGINEERS - SURVEYORS
129 N. MAIN STREET
BENTON, ARKANSAS 72015
501.315.2626

STRUCTURAL
ENGINEERING CONSULTANTS, INC.
401 WEST CAPITOL AVENUE, SUITE 305
LITTLE ROCK, ARKANSAS 72201
501.376.3752

MECHANICAL / PLUMBING / ELECTRICAL
BATSON INC. ENGINEERING SOLUTIONS
1300 BROOKWOOD DRIVE
LITTLE ROCK, ARKANSAS 72202
501.664.3311

CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THESE PLANS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH INTERNATIONAL BUILDING CODE FOR THE STATE OF ARKANSAS.

JOHN DEAN JOHNSON, JR. REGISTERED ARCHITECT No. 3885 ARKANSAS

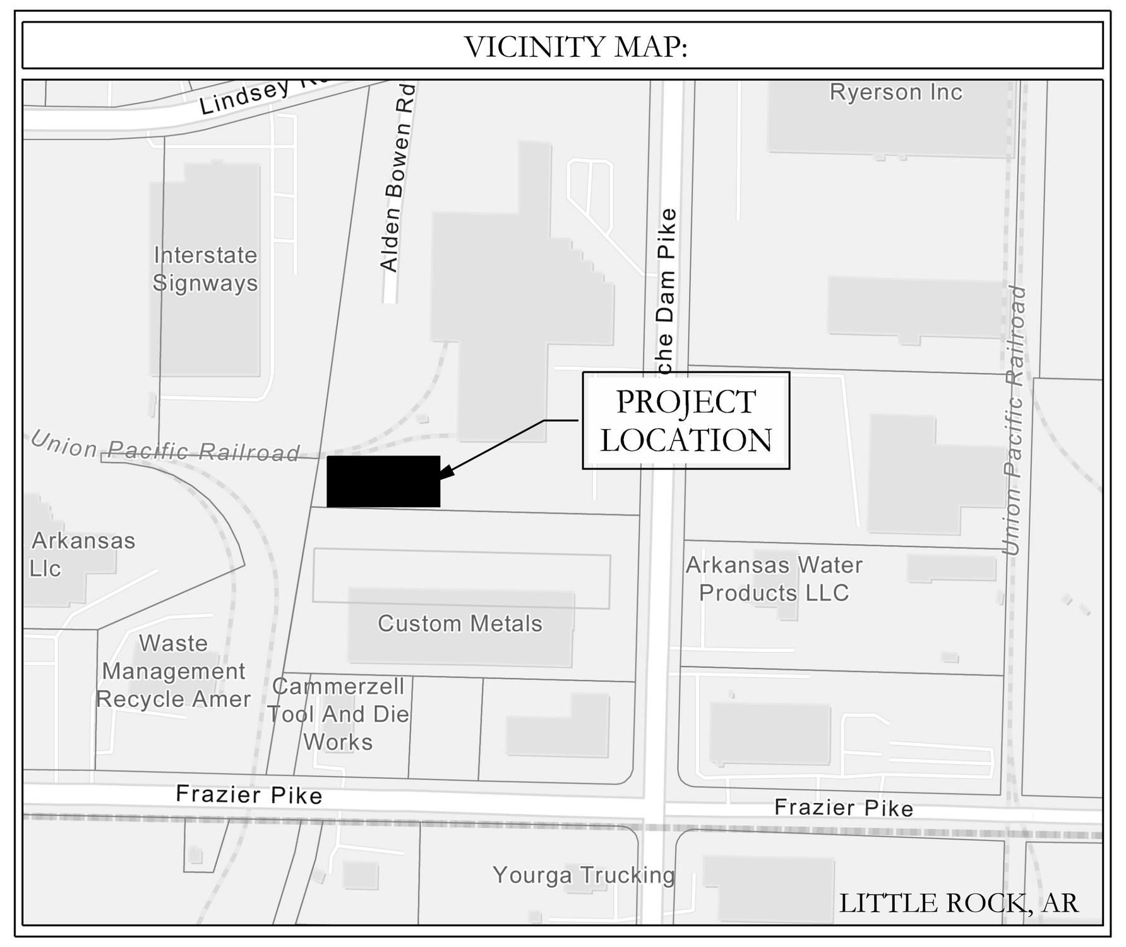
11/1/24

24-007:PROJECT NUMBER

11/1/2024 2:16:29 PM
C:\Users\PatrickMcNulty\Documents\Lexicon Blast Facility_pmcnulty-G7R8L.rvt

CONSTRUCTION PLANS
LEXICON BLAST FACILITY
8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, AR

VICINITY MAP:



PREPARED BY:

HOPE CONSULTING
ENGINEERS - SURVEYORS

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Benton, Arkansas 72015
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FAX (501) 315-0024
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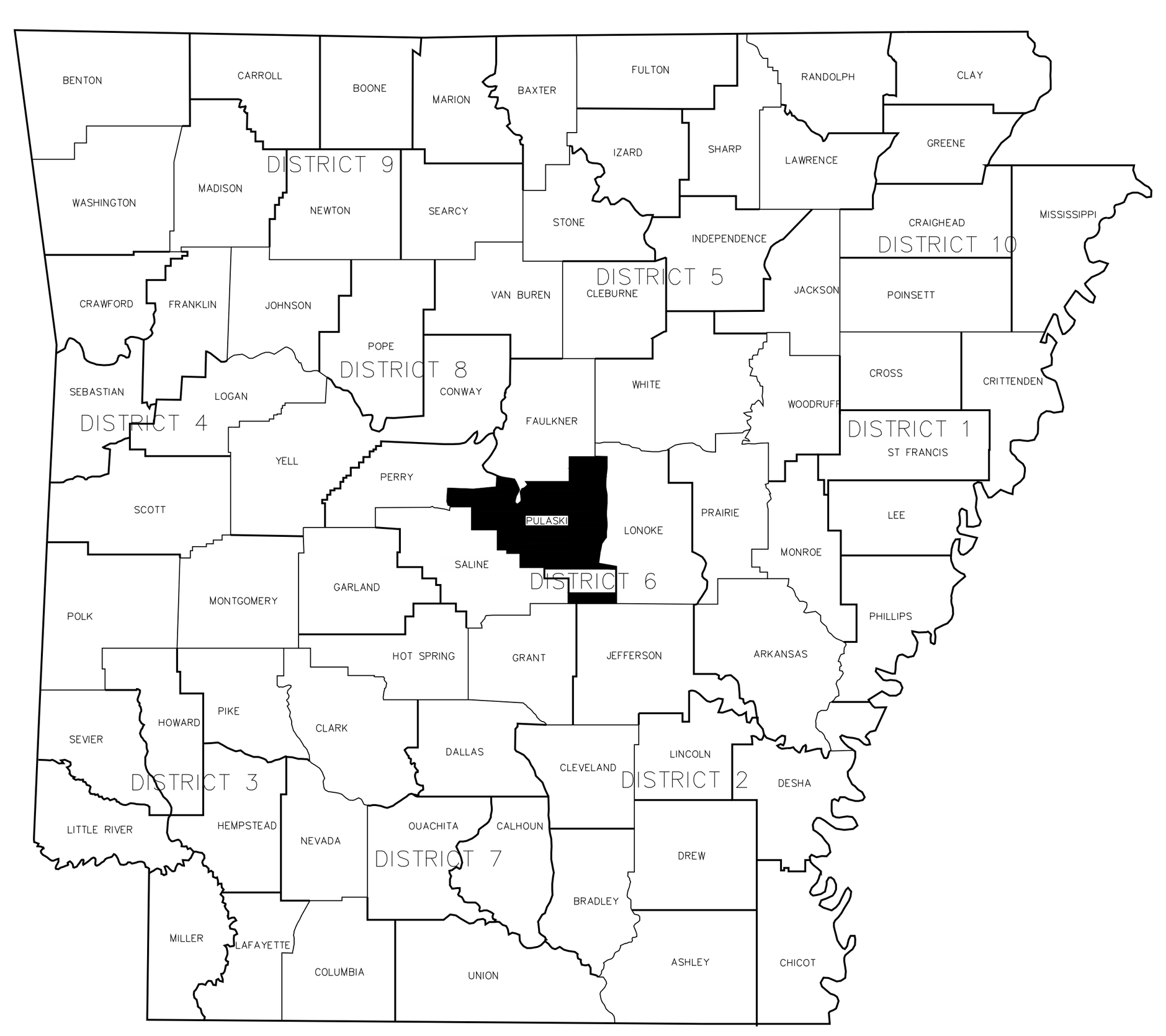
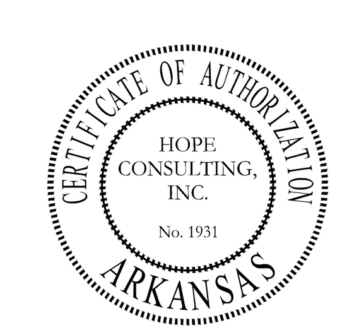
DRAWING INDEX



CIVIL ENGINEER
HOPE CONSULTING INC
129 NORTH MAIN STREET
BENTON, AR 72015



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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY

8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11/01/2024	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	23-0295
SHEET:		SCALE:	

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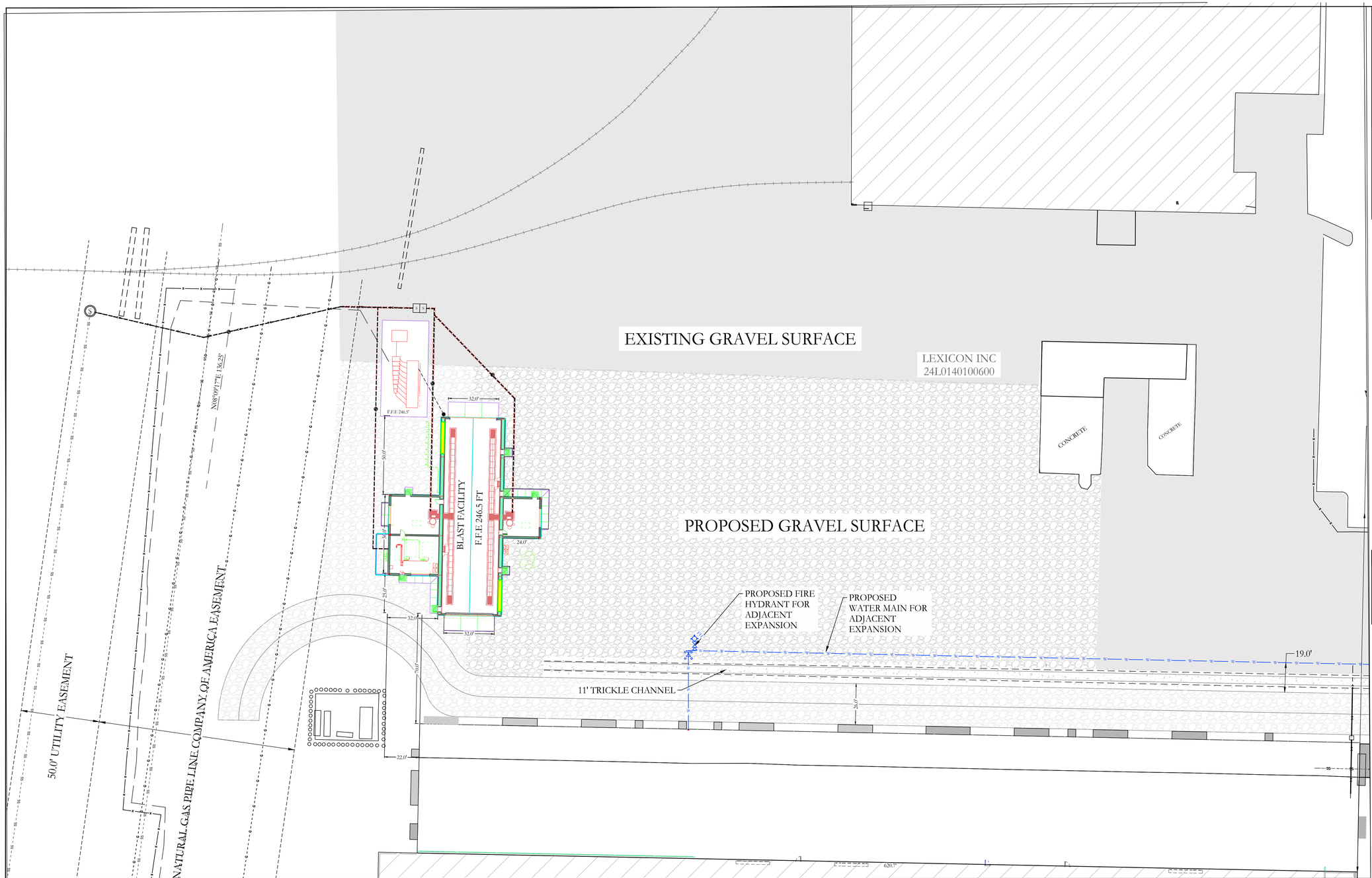

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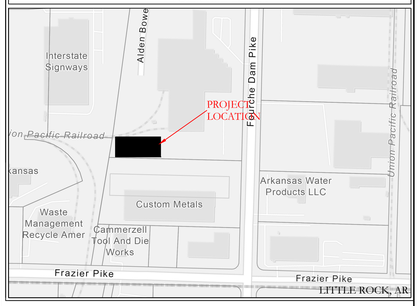


LEGEND

FIRE HYDRANT

PROPOSED PRIVATE 10" DUCTILE IRON FIRELINE

PROPOSED GATE VALVE

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

LEGEND

- Found Aliquot Corner	- Clean Out
- Found monument	- Water Meter
- Set 1/2" Rebar #1664	- Power Pole
- Computed point	- Sewer Manhole
(M)- Measured	- Light Pole
(P) - Deed/Plat	- Telephone Pedestal
- Grate Inlet	- Drainage Manhole
- Fence	
- Overhead Power	
- Sewer Line	
- Water Line	
- Telephone Line	
- Electric Line	
- Gas Line	

DISCLAIMER

UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS SURVEY.

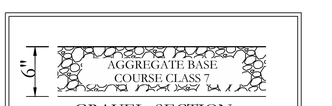
FLOOD STATEMENT

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

N

30 15 0 30

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY
GPS OBSERVATION



GRAVEL SECTION
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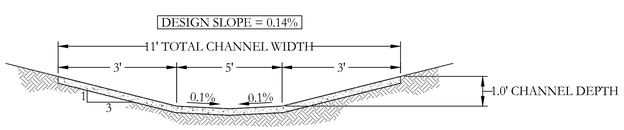

TRICKLE CHANNEL
NOT TO SCALE

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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
SITE PLAN
8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11-01-2024	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	23-0295
SHEET:	C-1.0	SCALE:	

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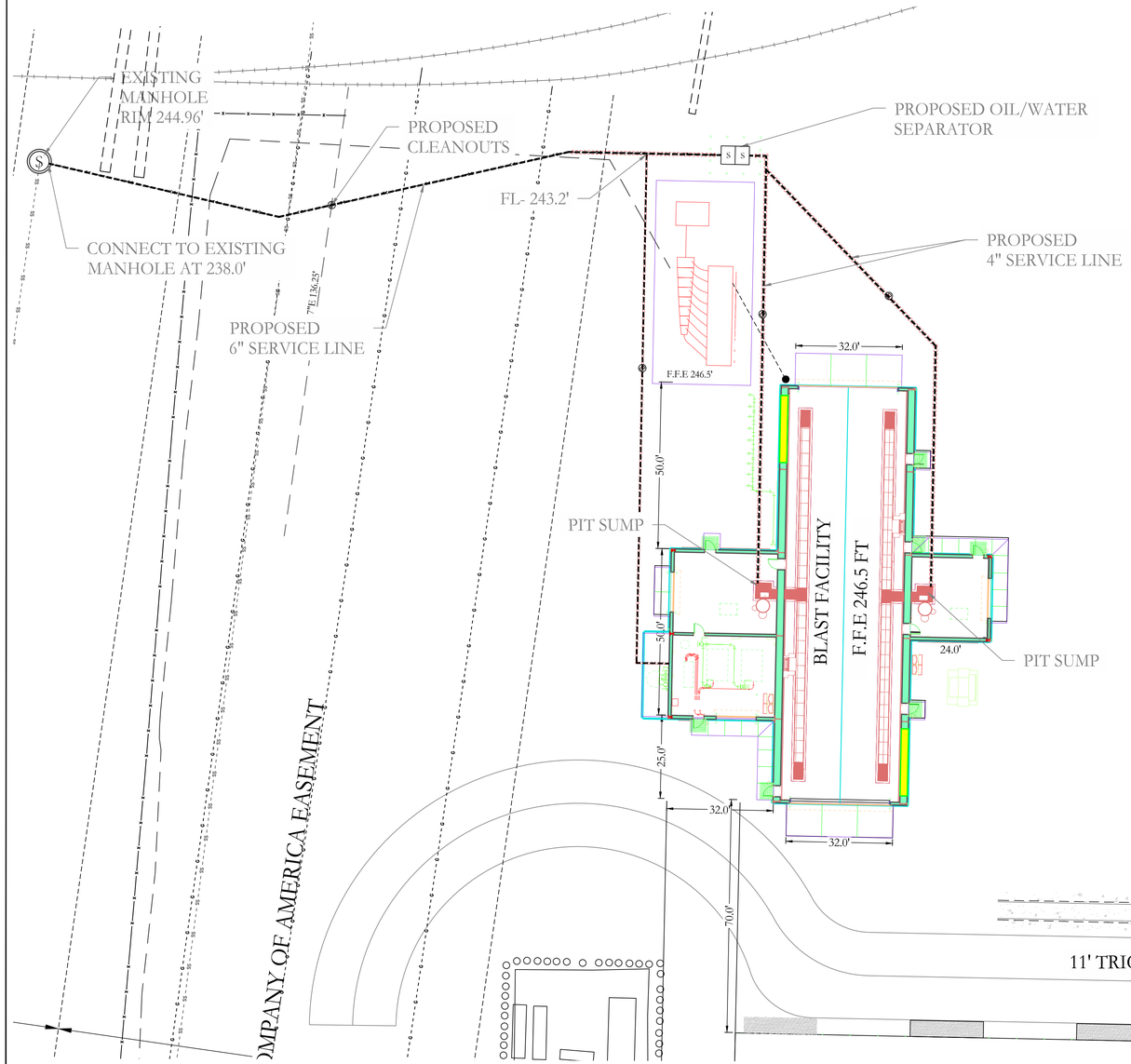
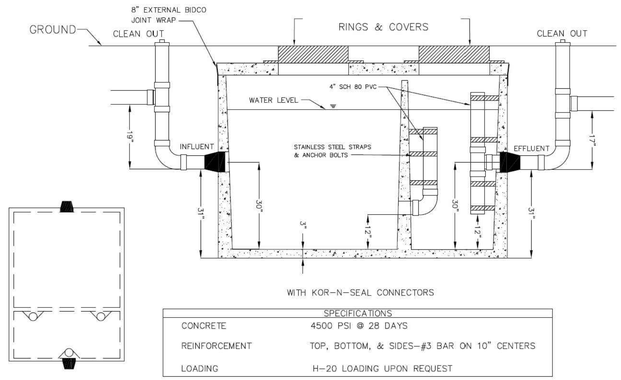


SEWER LEGEND

- SANITARY SEWER MANHOLE
- CLEANOUT
- PROPOSED SEWER SERVICE

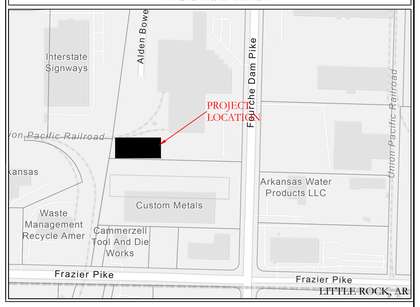


SPECIFICATIONS	
CONCRETE	4500 PSI @ 28 DAYS
REINFORCEMENT	TOP, BOTTOM, & SIDES-#3 BAR ON 10" CENTERS
LOADING	H-20 LOADING UPON REQUEST

WATER/OIL SEPARATOR

99 1/2" LONG X 65 1/2" WIDE X 67" TALL
(73" TALL WITH TRAFFIC LID)

VICINITY MAP:



LEGEND

- FIRE HYDRANT
- PROPOSED PRIVATE 10" DUCTILE IRON FIRELINE
- PROPOSED GATE VALVE

STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ NO. 20876 KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION HOPE CONSULTING, INC. No. 1931 ARKANSAS

LEGEND

- Found Aliquot Corner
- Found monument
- Set 1/2" Rebar #1664
- Computed point
- (M)- Measured
- (P) - Deed/Plat
- Grate Inlet
- Clean Out
- Water Meter
- Power Pole
- Sewer Manhole
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- Telephone Pedestal
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FLOOD STATEMENT

NO PORTION OF THIS PROPERTY IS WITHIN THE 100 YEAR SPECIAL FLOOD HAZARD AREA ACCORDING TO THE FLOOD INSURANCE RATE MAP PANEL #05125C0240E DATED 06-05-2020.

N

BASIS OF BEARING: GRID NORTH, ARKANSAS COORDINATE SYSTEM, SOUTH ZONE BY GPS OBSERVATION

20 10 0 20

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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
UTILITY PLAN

8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11-01-2024	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	23-0295
SHEET:	C-2.0	SCALE:	

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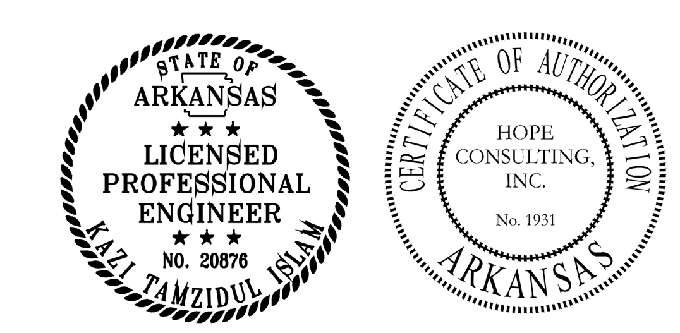
LEGEND

EXISTING CONTOUR LINE	363
PROPOSED CONTOUR LINE	363



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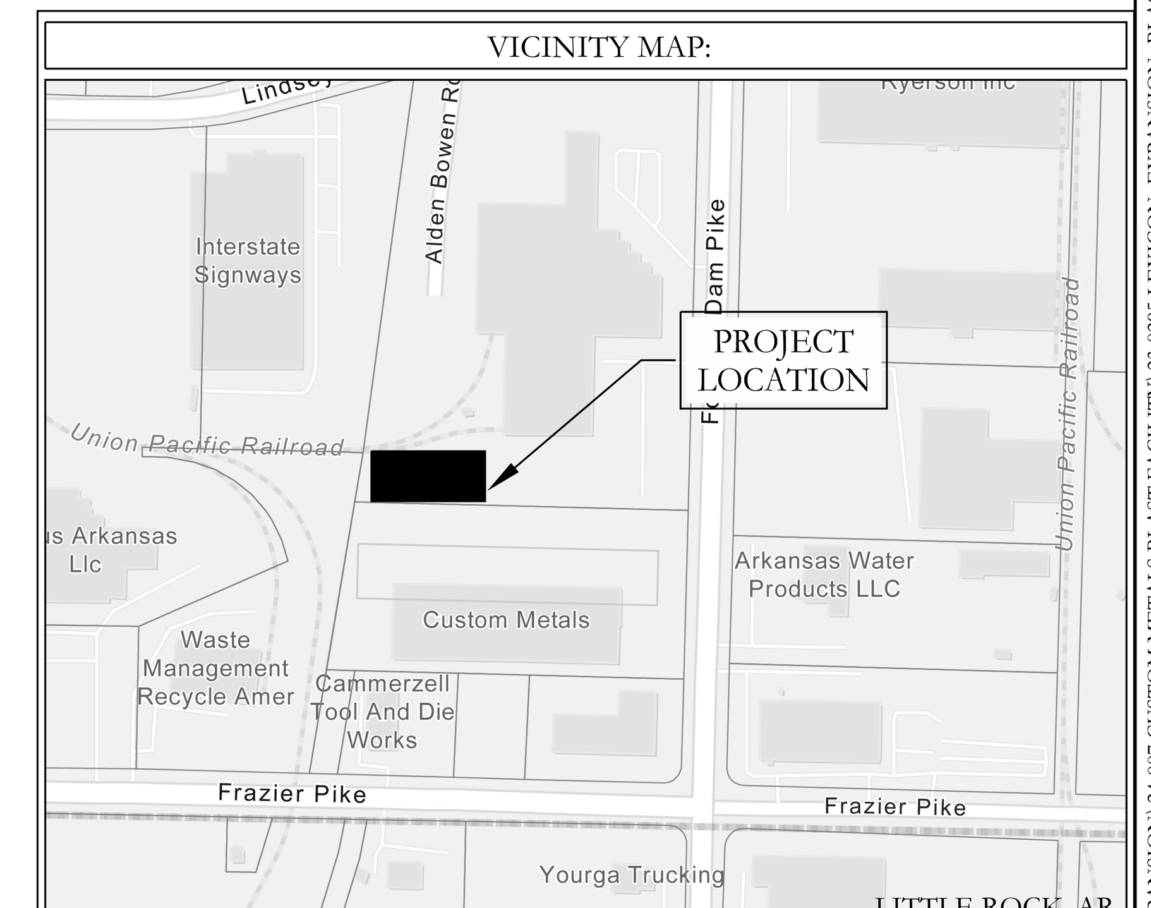
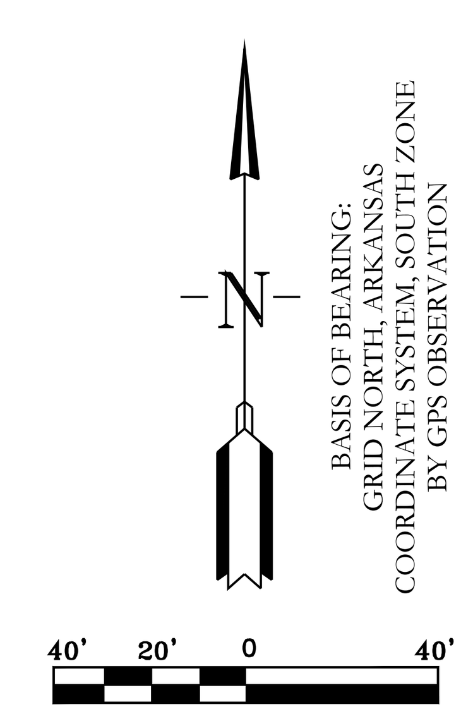


GRADING PLAN NOTES

1. DESIGN CONTOURS SHOWN ARE FINISHED GRADE.
2. SPOT ELEVATIONS SHOWN ARE FINISHED ASPHALT, GRAVEL OR CONCRETE ELEVATIONS.
3. CLEAR AND GRUB AREAS OF THE SITE WHERE CUT OR FILL IS TO OCCUR.
4. FILL SHALL BE COMPACTED TO AT LEAST 98% OF THE MATERIAL'S MAXIMUM STANDARD PROCTOR DRY DENSITY.
5. THE MOISTURE CONTENT OF FILL MATERIAL SHALL BE WITHIN THE RANGE OF 1% BELOW TO 3% ABOVE THE OPTIMUM MOISTURE CONTENT.
6. SUBGRADES SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK TO DETECT ZONES OF UNSUITABLE AND/OR EXCESSIVELY WET SOILS. IF PUMPING BEGINS, COMPACTION SHALL BE STOPPED IMMEDIATELY AND RESUMED ONLY WHEN THE MATERIAL IS SUFFICIENTLY DRY THAT PUMPING DOES NOT OCCUR.
7. ALL UNUSABLE SOILS SHALL BE USED ON SITE FOR FILL PURPOSES OUTSIDE THE AREAS OF BUILDING AND PAVEMENT CONSTRUCTION.



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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
GRADING PLAN
8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE: 11-01-2024	C.A.D. BY:	DRAWING NUMBER:	
REVISED:	CHECKED BY:	23-0295	
SHEET: C-3.0	SCALE:		

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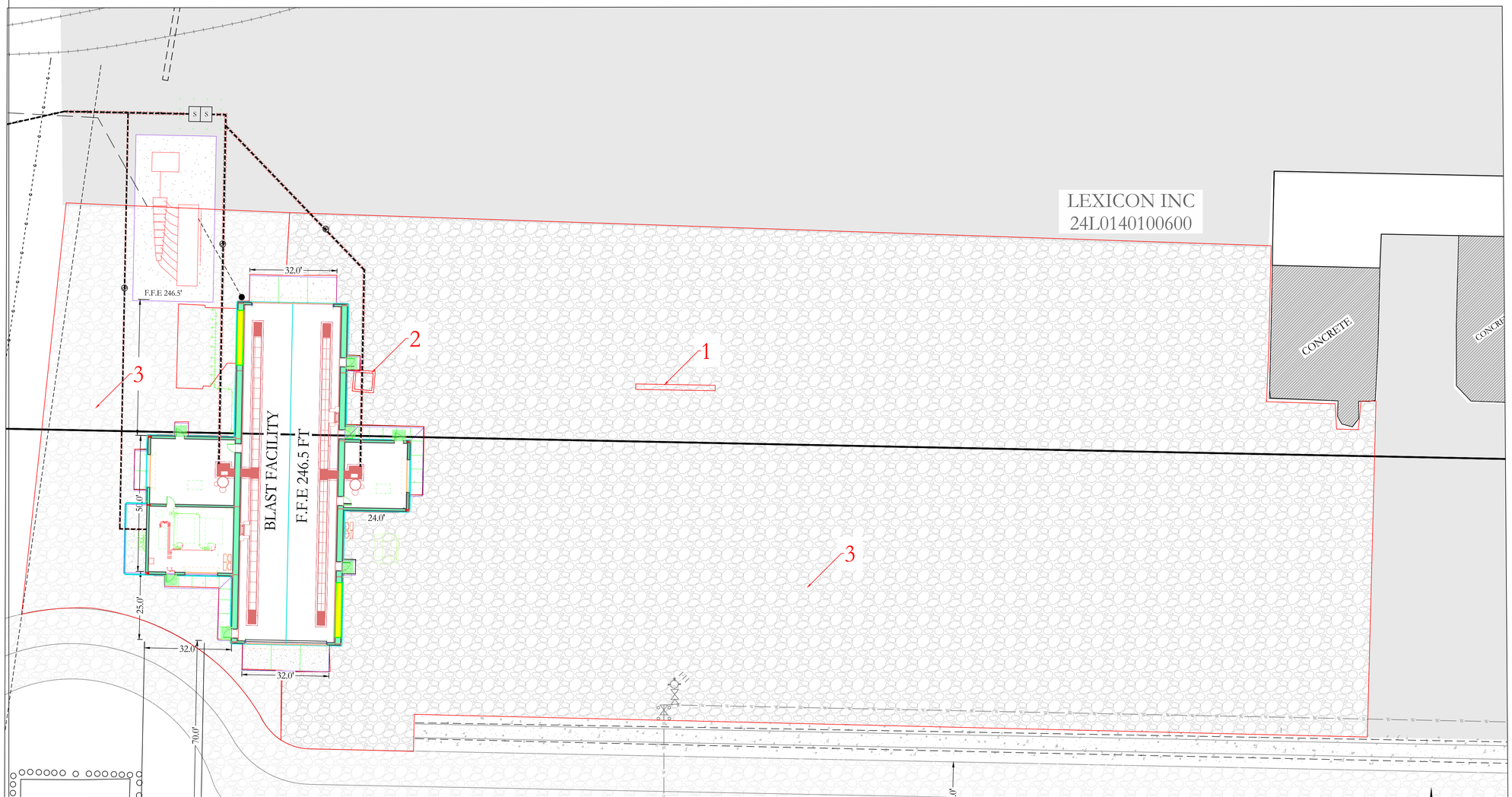
DEMOLITION NOTES

1. DEMO EXISTING 24" CMP PIPE

2. DEMO OF EXISTING CONCRETE BOX

3. RESURFACING OF GRAVEL ROAD=76006 SF



LEGEND

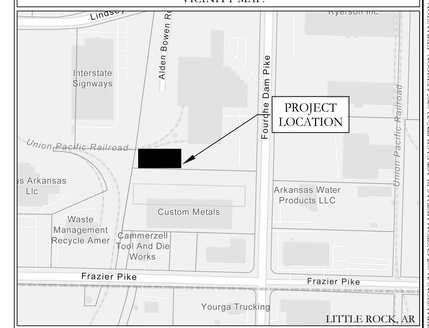
EXISTING CONTOUR LINE 363

PROPOSED CONTOUR LINE 363

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
JAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

VICINITY MAP:



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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
DEMOLITION PLAN
8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11-01-2024	C.A.D. BY:		DRAWING NUMBER:			
REVISED:		CHECKED BY:		23-0295			
SHEET:	C-4.0	SCALE:					
500	01N	11W	0	16	230	60	1664

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

N

20' 10' 0 20'

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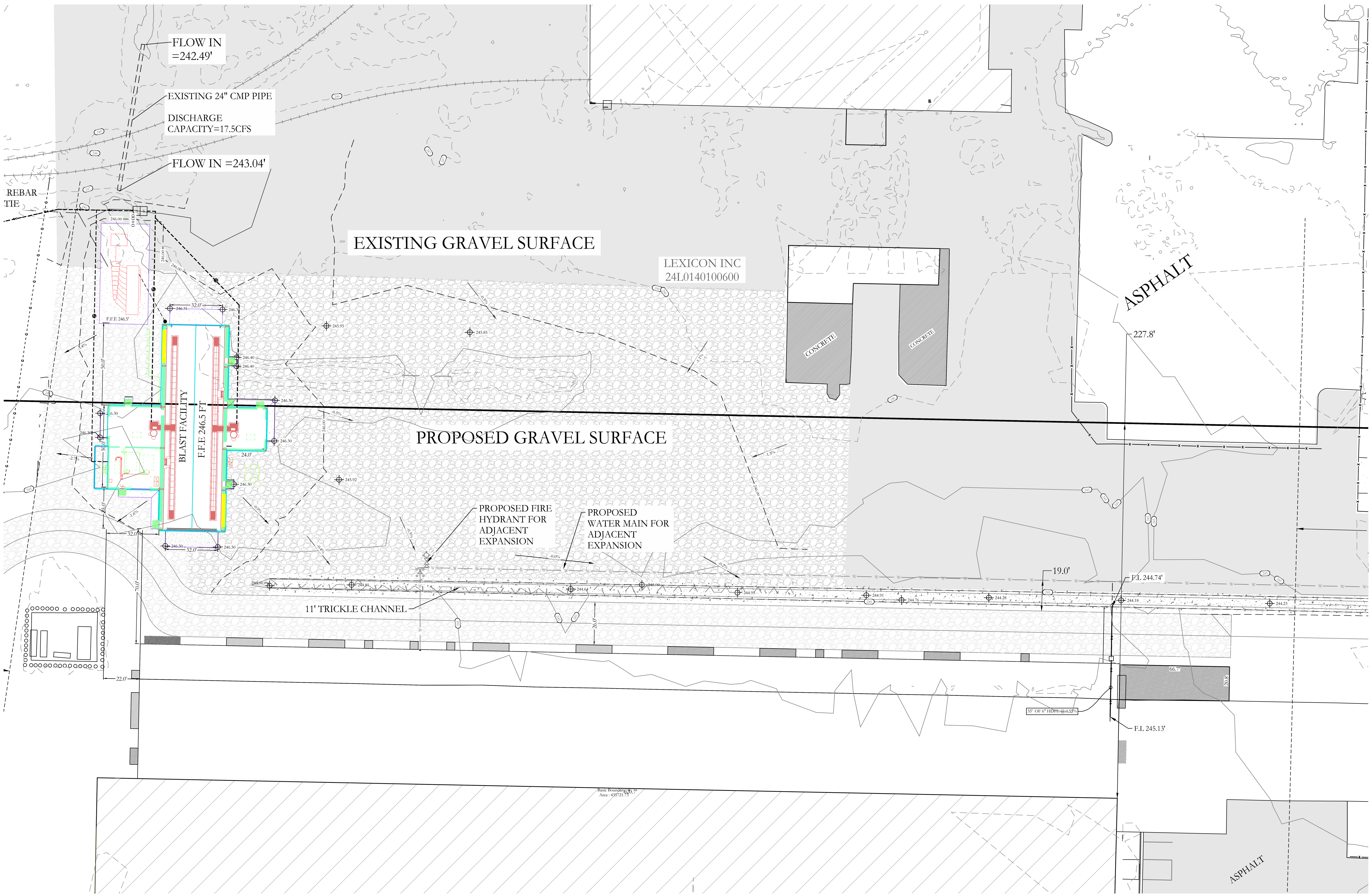

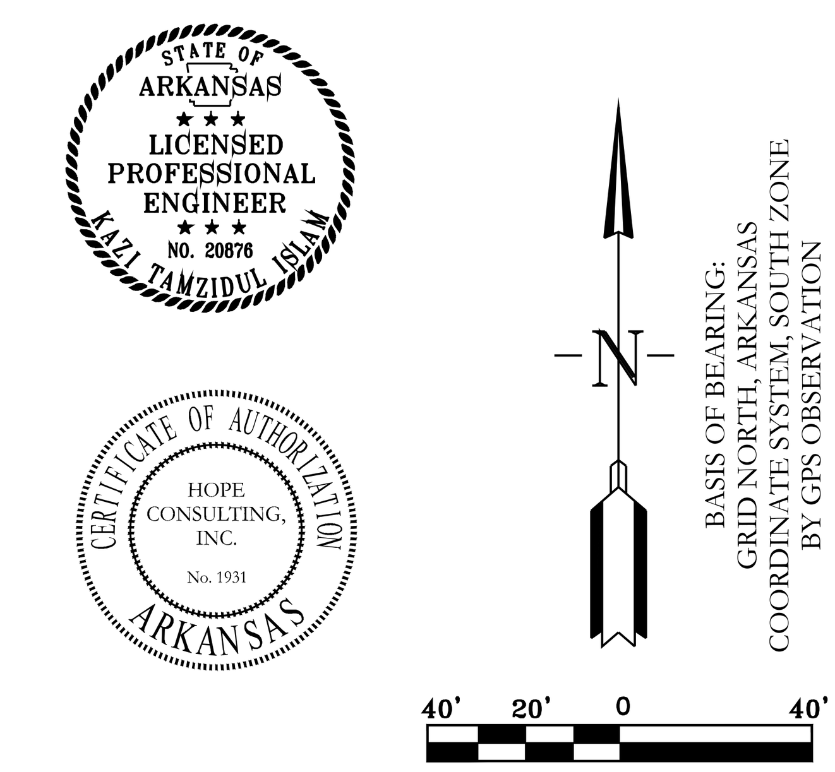

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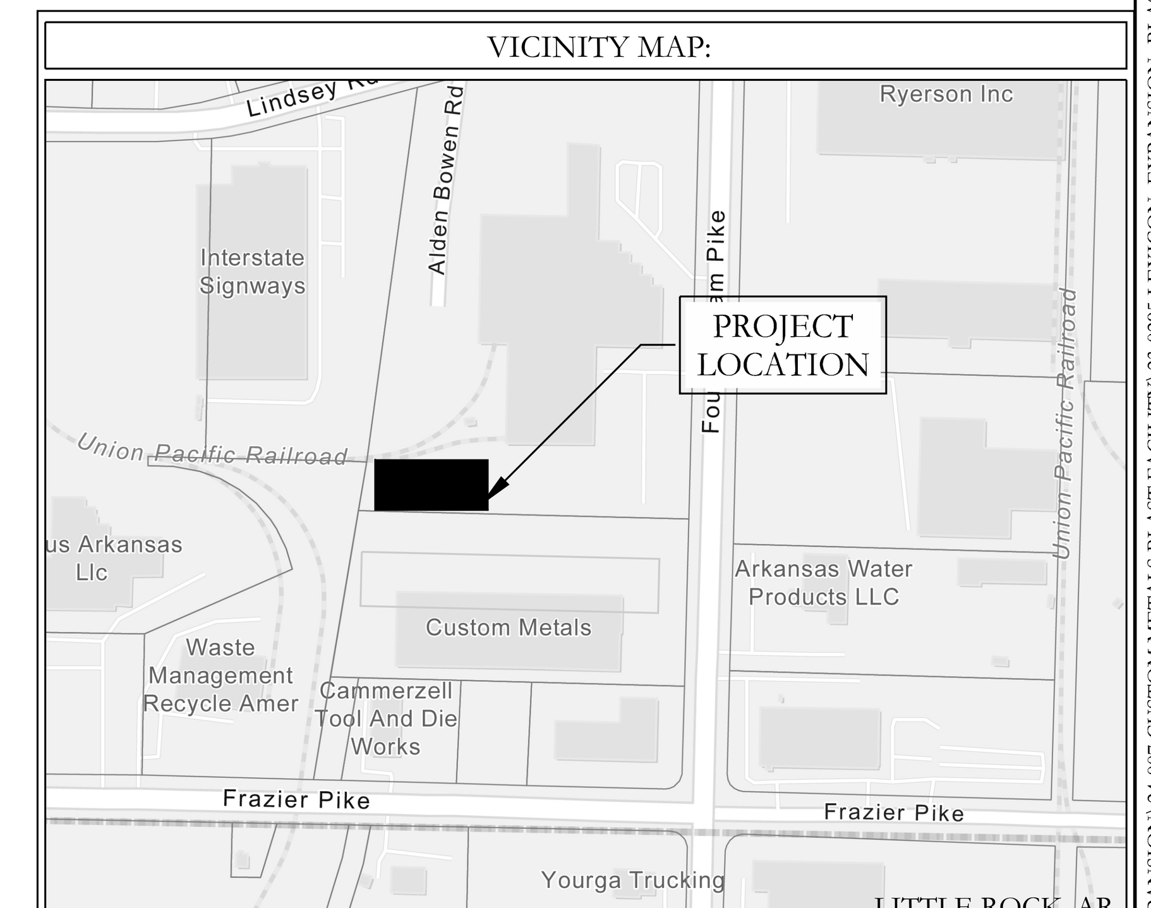

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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
DRAINAGE PLAN

8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11-01-2024	C.A.D. BY:		DRAWING NUMBER:
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SHEET:	C-5.0	SCALE:		

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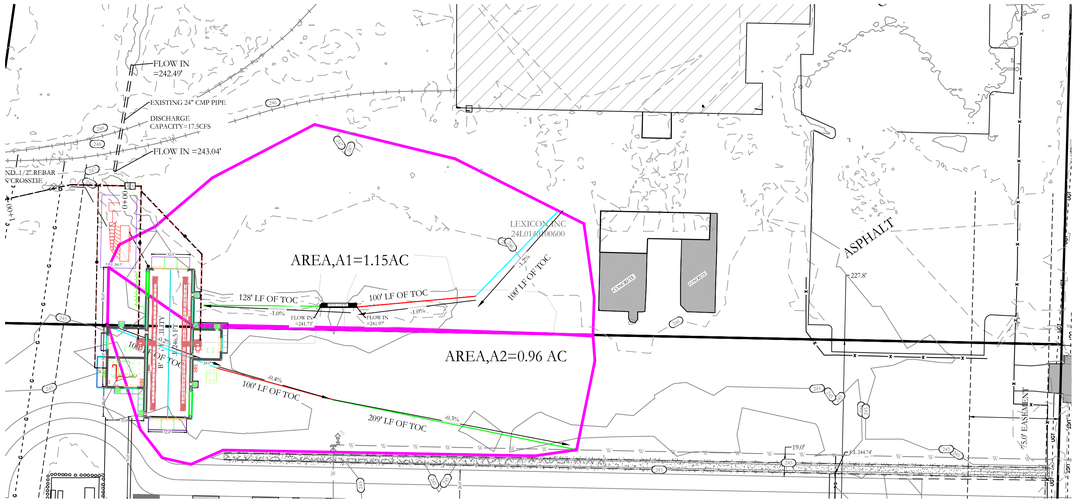
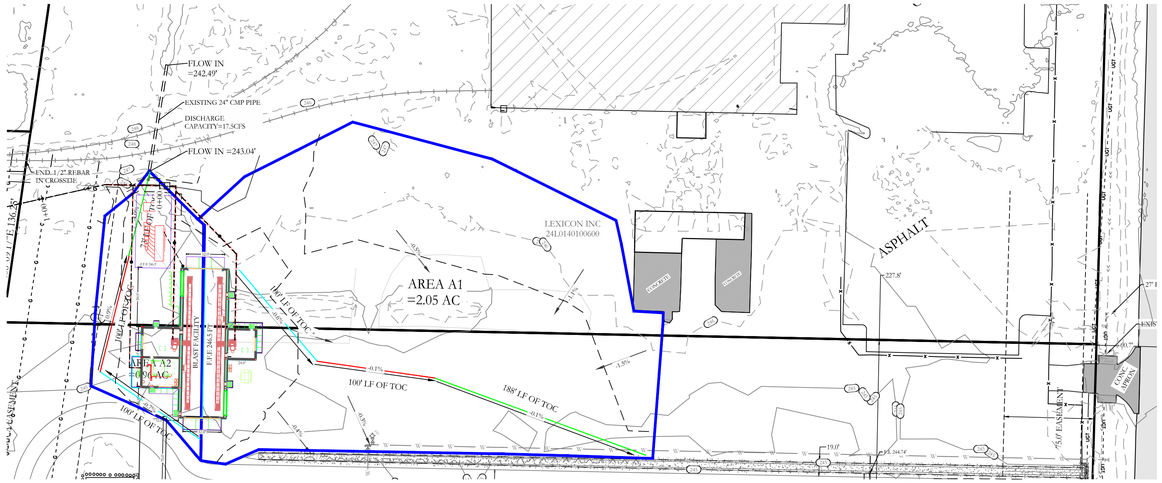




Pre Development

Total Area, A= 2.11 ac
Impervious area=2.11 ac

For 25 years,
Runoff Coefficient , C=0.87
(Heavy Industrial)

For Area A_1 =1.15 ac
Time of Concentration,t=5 min
Rainfall Intensity, I= 8.5 in/hr

Discharge ,Q =C*I*A =8.5 cfs

For Area A_2 =0.96 ac
Time of Concentration,t=9.296 min
Rainfall Intensity, I= 7.2 in/hr

Discharge ,Q =C*I*A =6.01 cfs

Total Discharge ,Q =14.51cfs

For 100 years,
Runoff Coefficient , C=0.90
(Heavy Industrial)

For Area A_1 =1.15 ac
Time of Concentration,t=5 min
Rainfall Intensity, I= 10 in/hr

Discharge ,Q =C*I*A =10.35 cfs

For Area A_2 =0.96 ac
Time of Concentration,t=9.296 min
Rainfall Intensity, I= 8.75 in/hr

Discharge ,Q =C*I*A =7.56 cfs

Total Discharge ,Q =17.91 cfs

Time of Concentration Calculations:

Pre-Development:

For Area- A1

(i) Overland Flow. $t_{os} = 0.93\left[\frac{NL}{S^{1/2}}\right]^{0.467}$ = 3.22 min | N = 0.02, L = 100', S = -12%

(ii) Shallow Concentrated Flow: $t_{scs} = \frac{L_{sc}}{60V_{sc}}$ | L = 100', S = -1%, $V_{sc} = 20.33(S)^{1/2}$ = 2.033

$\therefore t_{scs} = 0.82$ min

(iii) Channel Flow: $t_c = \frac{L_c}{60V_c}$ | L = 128', S = 1%, $V_c = \frac{1.49}{n}(R)^{2/3}(S)^{1/2}$

$= \frac{128}{60 \times 3.075}$ | $= \frac{1.49}{0.013}[0.416]^{2/3}(0.01)^{1/2}$ = 3.075 | n = 0.013 [cmp pipe], R = 0.416

= 0.694 min

Total TOC = 3.22 + 0.82 + 0.694 = 4.73 ≈ 5 min.

For Area A2 :-

(i) Overland Flow. t_{os} = 4.896 mn | L = 100', S = -0.2%

(ii) Shallow Concentrated Flow. t_{scs} = 1.29 min | L = 100', S = -0.4%

(iii) Channelized Flow. t_c = 3.11 min | L = 209', S = -0.3%, $V_c = \frac{1.49}{n}(R)^{2/3}(S)^{1/2}$ = 1.33

$\therefore$ Total TOC = 9.296 min

Post Development:

For Area. A1 :-

(i) Overland Flow. $t_{os} = 0.93\left[\frac{NL}{S^{1/2}}\right]^{0.467}$ = 3.789 min | L = 100', S = -0.6%, N = 0.02

(ii) Shallow Concentrated Flow. $t_{scs} = \frac{L_{sc}}{60V_{sc}}$ | L = 100', S = -0.1%, $V_{sc} = 20.33(S)^{1/2}$ = 0.64

$\therefore t_{scs} = 2.59$ min

(iii) Channel Flow. $t_c = \frac{L_c}{60V_c}$ | L = 188', S = -0.1%, $V_c = \frac{1.49}{n}(R)^{2/3}(S)^{1/2}$ = 0.645

= 4.86 min

$\therefore$ Total TOC = 3.789 + 2.59 + 4.86 = 11.239 min

For Area.A2 :-

(i) Overland Flow. t_{os} = 4.16 min | L = 100', S = -0.4%, N = 0.02

(ii) Shallow Concentrated Flow. t_{scs} = 1.06 min | L = 100', S = -0.6%, $V_{sc} = 20.33(S)^{1/2}$ = 1.57

(iii) Channel Flow. t_c = 0.306 min | L = 73', S = -3.8%, V_c = 3.98

Total TOC = 4.16 + 1.06 + 0.306 = 5.526 min

Post Development

Total Area, A= 2.42 ac
Impervious area=2.42 ac

For 25 years,
Runoff Coefficient , C=0.87
(Heavy Industrial)

For Area A_1 =2.05 ac
Time of Concentration,t=11.35 min
Rainfall Intensity, I= 6.7 in/hr

Discharge ,Q =C*I*A =11.945 cfs

For Area A_2 =0.96 ac
Time of Concentration,t=5.52 min
Rainfall Intensity, I= 8.5 in/hr

Discharge ,Q =C*I*A =7.09 cfs

For 100 years,
Runoff Coefficient , C=0.90
(Heavy Industrial)

For Area A_1 =2.05 ac
Time of Concentration,t=11.35 min
Rainfall Intensity, I= 8.0 in/hr

Discharge ,Q =C*I*A =14.76 cfs

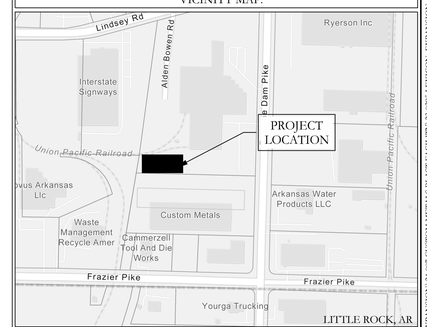
For Area A_2 =0.96 ac
Time of Concentration,t=5.52 min
Rainfall Intensity, I= 9.8 in/hr

Discharge ,Q =C*I*A =8.46 cfs

LEGEND

- POST DEVELOPMENT AREA
- PRE DEVELOPMENT AREA
- CHANNELIZED FLOW TOC LENGTH
- SHALLOW CONCENTRATED FLOW TOC LENGTH
- OVERLAND FLOW TOC LENGTH

VICINITY MAP:



HOPE CONSULTING
ENGINEERS - SURVEYORS
129 N. Main Street,
Benton, Arkansas 72015
PH. (501)315-2626
FAX (501) 315-0024
www.hopeconsulting.com

FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY
DRAINAGE CALCULATION
8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11/01/2024	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	23-0295
SHEET:	C-6.0	SCALE:	

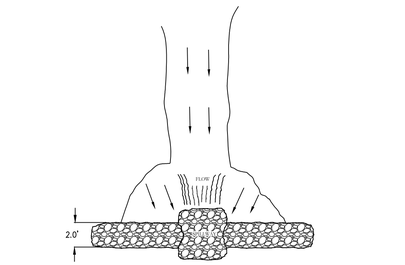
500	01S	14W	0	15/22	304	62	1664

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

BASIS OF BEARING:
GRID NORTH, ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

60' 30' 0 60'

Z:\LAND PROJECTS 2024\COMMERCIAL\2023\23-0295 CIVIL\LEXICON INC\LEXPANSION 24-007 CUSTOM METALS BLAST FACILITY 23-0295 LEXICON EXPANSION BLAST FACILITY 11-01-2024.DWG

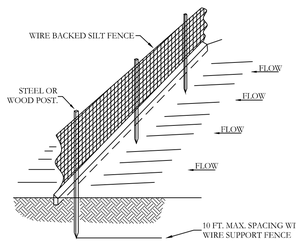


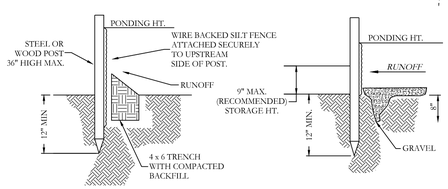
NOTES:

1.) POINT "C" MUST BE HIGHER THAN POINT 'B' (SPILLWAY HEIGHT).
2.) PLACE RIP-RAP IN BIRDS PERPENDICULAR TO THE FLOW WITH TIGHT GROUPING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL ANY GAPS AND TAMP BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND THE DAM.
3.) SPILLWAY HEIGHT SHALL NOT EXCEED 18"-24".
4.) INSPECT AFTER EACH SIGNIFICANT STORM, MAINTAIN AND REPAIR PROMPTLY.

RIP-RAP
CHECK DAM

SILT FENCE





STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

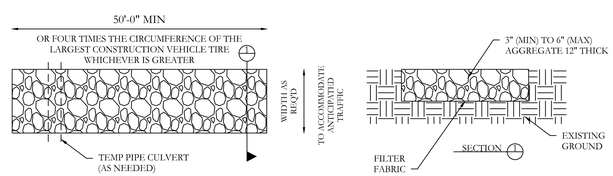
ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTE:
1.) INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.

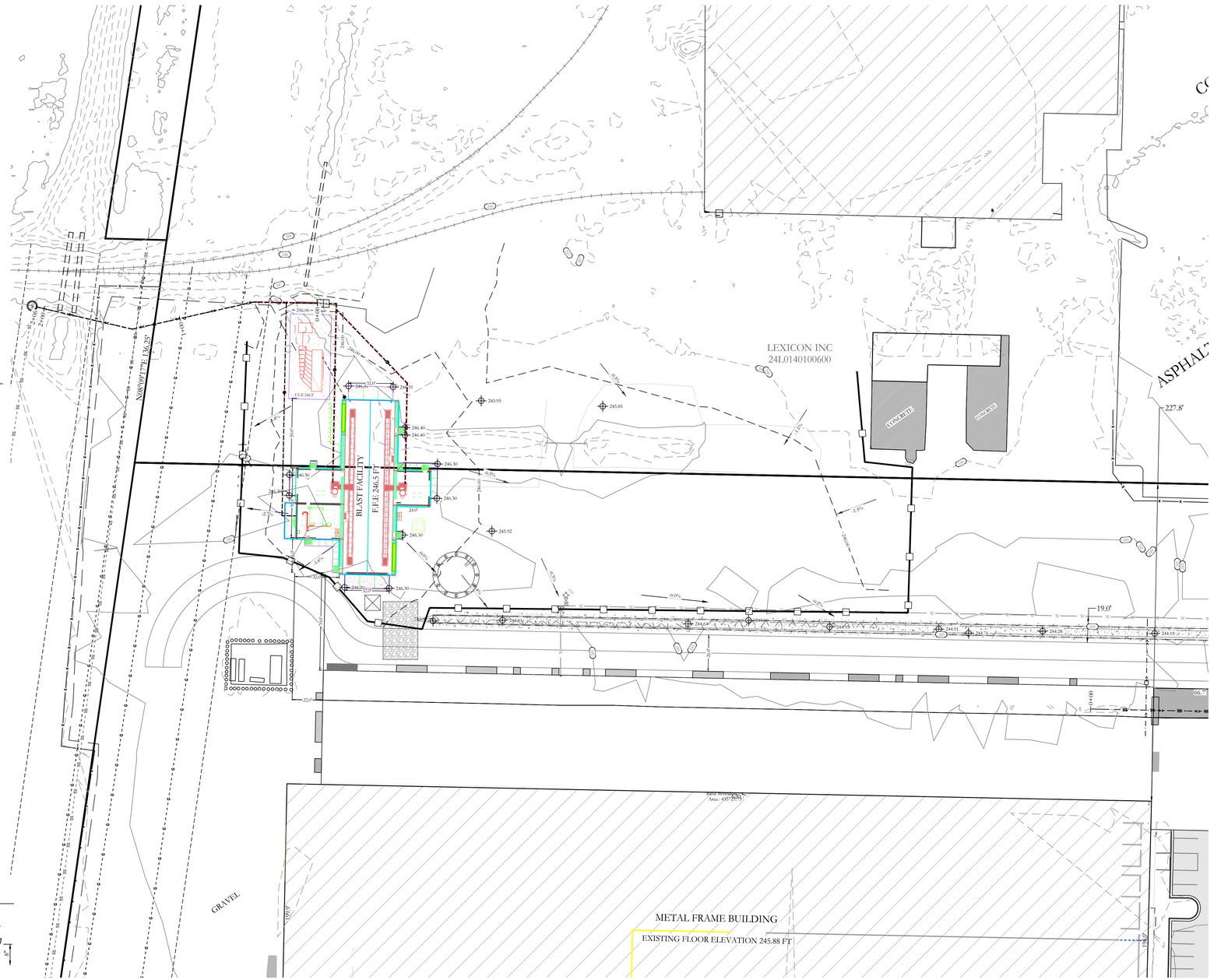
2.) REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

3.) SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.

4.) USE ONLY WIRE BACKED SILT FENCE.



STABILIZED CONSTRUCTION ENTRANCE
N.T.S



ERC LEGEND

SITE POSTING

CONC. WASHOUT DETENTION AREA

SILT FENCE

RIP RAP CHECK DAM

CONSTRUCTION ENTRANCE

BASIS OF BEARING:
GRID NORTH ARKANSAS
COORDINATE SYSTEM, SOUTH ZONE
BY GPS OBSERVATION

40' 20' 0 40'

EROSION CONTROL NOTES

SEDIMENT BARRIERS SHALL BE MAINTAINED THROUGHOUT AND INSPECTED THROUGHOUT CONSTRUCTION PROCESS UNTIL PROJECT IS COMPLETE

RIP RAP SEDIMENT BARRIERS SHALL BE USED AT ALL STORMWATER DISCHARGE POINTS SHOWN ON PLANS

CONTRACTOR SHOULD WORK WITH ENGINEER TO ESTABLISH EFFECTIVE AND EFFICIENT PLAN TO PREVENT SEDIMENT RUNOFF BY DETERMINING WHERE SILT FENCING OR OTHER TYPES OF CONTROLS ARE NECESSARY

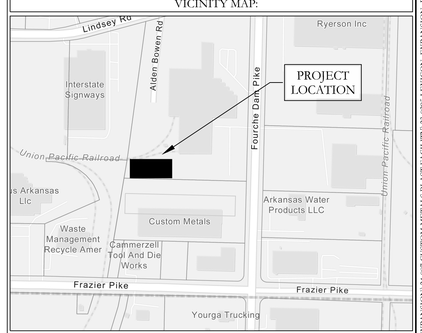
SOME EROSION CONTROL MEASURES, WIRE BACKED SILT FENCING, OR CHECK DAMS MAY NOT BE NECESSARY DURING INITIAL ROW CLEARING BUT MAY BE NEEDED ONCE LOT CLEARING AND COMMERCIAL BUILDING BEGINS

EXISTING VEGETATION WILL ONLY BE REMOVED INSIDE ROW

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
NO. 20876
KAZI TAMZIDUL ISLAM

CERTIFICATE OF AUTHORIZATION
HOPE CONSULTING, INC.
No. 1931
ARKANSAS

VICINITY MAP:



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FOR USE AND BENEFIT OF:
LEXICON, INC. COMPANY

LEXICON BLAST FACILITY EROSION CONTROL PLAN

8914 FOURCHE DAM PIKE
LITTLE ROCK, PULASKI COUNTY, ARKANSAS

DATE:	11-01-2024	C.A.D. BY:	DRAWING NUMBER:
REVISED:		CHECKED BY:	23-0295
SHEET:	C-7.0	SCALE:	

500	01N	11W	0	16	230	60	1664

Z:\LAND PROJECTS 2024\COMMERCIAL\23-0295 CIVIL\LEXICON INC EXPANSION 24-007 CUSTOM METALS BLAST FACILITY\23-0295 LEXICON EXPANSION BLAST FACILITY 11-01-2024.DWG

GENERAL ARCHITECTURAL CONSTRUCTION NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH PROVIDED PLANS OR DESCRIBED CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
2. IN THE EVENT OF CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.) THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
3. DO NOT SCALE DRAWINGS: DIMENSIONS GOVERN. WHERE CONFLICTS OCCUR BETWEEN LARGE AND SMALL SCALE DETAIL DIMENSIONS, NOTIFY ARCHITECT FOR CLARIFICATION.
4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTION FEES, TESTING FEES, AND DEPOSITS REQUIRED BY GOVERNING BODIES HAVING LEGAL JURISDICTION FOR THE INSTALLATION OF ALL WORK. CONTRACT SUM SHALL INCLUDE ALL FEES, DEPOSITS, METER CHARGES, AND COORDINATION WITH THE VARIOUS UTILITY COMPANIES FOR SERVICE. FINAL HOOKUP AND CONNECTION TO BE BY BUILDING GENERAL CONTRACTOR. IT SHALL BE THE BUILDING GENERAL CONTRACTOR'S RESPONSIBILITY TO CALL FOR LOCAL INSPECTIONS AND OBTAIN APPROVAL FROM LOCAL INSPECTORS.
5. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY FOR THE PERFORMANCE OF THE WORK.
6. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE MUNICIPALITY AND ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
7. IN THE EVENT OF A CONFLICT BETWEEN APPLICABLE CODES AND REGULATIONS AND REFERENCED STANDARDS OF THESE PLANS AND SPECIFICATIONS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.
8. UNLESS OTHERWISE PROVIDED FOR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.
9. WORKMANSHIP, MATERIALS, AND INSTALLATION SHALL CONFORM TO LATEST EDITIONS OF THE APPLICABLE BUILDING CODES, AS WELL AS APPLICABLE STATE AND LOCAL CODES, TRADE ASSOCIATION STANDARDS, AND MANUFACTURER'S STANDARDS THAT HAVE AUTHORITY OVER THIS PROJECT.
10. CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION. THEY DO NOT INDICATE METHOD OF CONSTRUCTION FOR THE BUILDING AND STRUCTURE. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. OBSERVATION VISITS TO THE SITE BY ARCHITECT, OWNER, OR ENGINEER SHALL NOT INCLUDE INSPECTION OF ABOVE ITEMS.
11. ESTABLISH AND VERIFY ALL OPENING AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING, AND ASSOCIATED WORK PRIOR TO CONSTRUCTION.
12. NOTE: ALL DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE ON DRAWINGS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE BUILDING AND SITE CLEAN, AND PROVIDE ALL AND ANY SAFETY PROVISIONS TO ENSURE THE PUBLIC SAFETY.
14. MATERIALS, EQUIPMENT, ETC. NOT INDICATED ON DRAWINGS OR SPECIFIED HEREIN, BUT REQUIRED FOR SUCCESSFUL AND SUFFICIENT COMPLETION OF THE INSTALLATION, SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.
15. ALL MATERIALS AND EQUIPMENT FURNISHED BY CONTRACTORS SHALL BE NEW AND FREE FROM DEFECTS. DAMAGED WORK MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
16. ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC., SHALL BE HANDLED AND INSTALLED IN CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS AND INSTRUCTIONS. WHERE SPECIFIC PRODUCTS ARE CALLED FOR, GENERIC EQUIVALENTS WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS, MAY BE USED IF APPROVED BY THE ARCHITECT. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECTS REVIEW AND APPROVAL, TYPICAL.
21. ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER WRITTEN ACCEPTANCE.

NOTE: CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL INFORMATION FOR FINAL ACCEPTANCE OF WORK FOR ANY LOCAL, STATE OR FEDERAL AGENCY, UTILITY DISTRICT OR ANY OTHER AGENCY OR DISTRICT HAVING APPROVAL AUTHORITY OVER WORK. THIS INFORMATION MAY INCLUDE, BUT IS NOT LIMITED TO, AS-BUILT PLANS, CERTIFICATIONS, INSPECTIONS AND REPORTS.

SYMBOLS LEGEND

- DRAWING REFERENCE / EXTERIOR ELEVATION KEY / SHEET NUMBER
- DRAWING REFERENCE / INTERIOR ELEVATION KEY / SHEET NUMBER
- DRAWING REFERENCE / ENLARGED PLAN CALLOUT KEY / SHEET NUMBER
- DOOR NUMBER
- COLUMN GRID KEY
- WINDOW KEY
- WALL KEY
- DRAWING REFERENCE / BUILDING SECTION KEY / SHEET NUMBER
- MILLWORK SECTION KEY
- WALL SECTION KEY
- DETAIL SECTION KEY
- REVISION NUMBER
- ROOM NAME
- ROOM NUMBER
- SPOT ELEVATION KEY
- LEVEL ELEVATION KEY

MATERIALS LEGEND

- CONCRETE
- C.M.U.
- FACE BRICK
- STEEL
- BATT INSULATION
- RIGID INSULATION
- WOOD - FINISHED
- WOOD - ROUGH
- PLYWOOD
- SOIL
- GYPSUM BOARD / SHEATHING
- GRAVEL
- EXISTING WALLS TO REMAIN
- EXISTING WALLS TO BE REMOVED
- NEW WALLS

ARCHITECTURAL ABBREVIATIONS

ANCH	ANCHOR	MH	MANHOLE
AGG	AGGREGATE	M.CB.	METAL CORNERBEAD
ABV	ABOVE	MECH	MECHANICAL
A.F.F.	ABOVE FINISHED FLOOR	MACH	MACHINE
ALUM	ALUMINUM	MTL	METAL
ADJ	ADJUSTABLE	MANUF	MANUFACTURER
A/C	AIR CONDITIONING	M	MULTIPLE
ACOUST	ACOUSTICAL	MID	MIDDLE
ASPH	ASPHALT	MEMB	MEMBRANE
A.B.	ANCHOR BOLT	MAX	MAXIMUM
ATTEN	ATTENUATION	MIN	MINIMUM
ALT	ALTERNATE	MED	MEDIUM
ADDM	ADDENDUM	MB	MARKERBOARD
ALLOW	ALLOWANCE	MEZZ	MEZZANINE
		MTR	MOTOR
BRK	BRICK	M.E.J.	MASONRY EXPANSION JOINT
BLKG	BLOCKING	MTL	METAL
BD	BOARD	MISC	MISCELLANEOUS
BLK	BLOCK	M.O.	MASONRY OPENING
BLDG	BUILDING	M.B.R.	MODIFIED BITUMEN ROOFING
BTM	BOTTOM	MATL	MATERIAL
BM	BEAM		
BETW	BETWEEN	MOD. BIT.	MODIFIED BITUMEN
BIT	BITUMINOUS	MK	MARK
B.U.R.	BUILT-UP ROOFING		
BRG	BEARING		
B.S.	BOTH SIDES	N.I.C.	NOT IN CONTRACT
		N.W.	NORTH WEST
CONST	CONSTRUCTION	N	NORTH
CEM	CEMENT	NO	NUMBER
C	COURSE(S)	N.T.S.	NOT TO SCALE
CB	CHALKBOARD; CATCH BASIN	NIC'Y	NECESSARY
C.J.	CONTROL JOINT	NOM	NOMINAL
COL	COLUMN		
CO.	COMPANY	OPP	OPPOSITE
COND	CONDENSER	O.C.	ON CENTER
C.M.U.	CONCRETE MASONRY UNIT	O.F.O.I.	OWNER FURNISHED - OWNER INSTALLED
CTRFLSHG	COUNTER FLASHING	O.F.C.I.	OWNER FURNISHED - CONTRACTOR INSTALLED
CONC	CONCRETE	O.D.	OUTSIDE DIAMETER
CO	CLEAN OUT	OPNG	OPENING
CER	CERAMIC	OFF	OFFICE
CONTR	CONTRACTOR	OA	OVER-ALL
CONT.	CONTINUOUS	OVHD	OVERHEAD
CLG	CEILING	O.H.	OVER HANG
CONN	CONNECTION		
CAB	CABINET		
COV	COVER	POLYISO	POLYISOCYANURATE
℄	CENTERLINE	PREFIN	PREFINISHED
C.G.	CORNER GUARD	PL. LAM.	PLASTIC LAMINATE
CLR	CLEAR	P.S.I.	POUNDS PER SQUARE INCH
CTR	CENTER	PTD	PAINTED
C.O.	CHANGE ORDER	PL	PLATE
CLO	CLOSET	PLYWD	PLYWOOD
		PREFAB	PREFABRICATED
DIAG	DIAGONAL	℗	PROPERTY LINE
DED	DEDUCTIVE	PVC	POLYVINYL CHLORIDE
DP	DEEP	P.P.	POWER POLE
DBL	DOUBLE	P.T.	PRESERVATIVE TREATED
DISP	DISPENSER	PART	PARTITION
DIA	DIAMETER	PNL	PANEL
DIM	DIMENSION	PERF	PERFORATED
DN	DOWN	PHOTO	PHOTOGRAPH
DS	DOWNSPOUT	PLMB	PLUMBING
DR	DOOR	PSF	POUNDS PER SQUARE FOOT
D.F.	DRINKING FOUNTAIN	PROJ	PROJECT
DW	DISHWASHER		
DWG	DRAWING	QTY	QUANTITY
DET	DETAIL	Q.T.	QUARRY TILE
		QTR	QUARTER
EXT	EXTERIOR		
ELEV	ELEVATION/ELEVATOR	RES	RESISTANT
E.W.	EACH WAY	RECT	RECTANGULAR
EQ	EQUAL	RET	RETAINING
ELEC	ELECTRIC(AL)	REINF	REINFORCE(MENT)
EQUIP	EQUIPMENT	RR	RAILROAD
EXIST	EXISTING	RFG	ROOFING
EXP	EXPANSION	RE	REFERENCE
E.W.C.	ELECTRIC WATER COOLER	RM	ROOM
EXH	EXHAUST	RAD	RADIUS
E.I.F.S.	EXTERIOR INSULATION & FINISH SYSTEM	R	RADIUS, RISER
E.J.	EXPANSION JOINT	R.O.	ROUGH OPENING
EXP. JT.	EXPANSION JOINT	R.D.	ROOF DRAIN
E	EAST	REQD	REQUIRED
ENCL.	ENCLOSED/ENCLOSURE	REC	RECESSED
EA	EACH	RESIL.	RESILIENT
E.P.S.	EXPANDED POLYSTYRENE	REM	REMOVE
EL	ELEVATION	REV	REVISE
E.F.	EXHAUST FAN	REF	REFRIGERATOR
E.B.	EXPANSION BOLT		
F.F.E.	FINISH FLOOR ELEVATION	S	SOUTH
FURR	FURRING	S.ST.	STAINLESS STEEL
F.E.C.	FIRE EXTINGUISHER & CABINET	SUSP	SUSPEND(ED), SUSPENSION
F.V.	FIELD VERIFY	S.C.	SOLID CORE
FIN	FINISH(ED)	STL	STEEL
FT	FOOT/FEET	SHELV	SHELVING
F.B.	FACE BRICK	SHEATH	SHEATHING
F.F.	FINISHED FLOOR	S.E.	SOUTH EAST
FLSHG	FLASHING	STRUCT	STRUCTURAL
FLUOR	FLUORESCENT	STD	STANDARD
FRM	FRAME	STOR	STORAGE
FDN	FOUNDATION	STN	STAIN (ED)
FOUND	FOUNDATION	STO	STORAGE
FLR	FLOOR	SKYLT	SKYLIGHT
FTG	FOOTING	SIM	SIMILAR
F.H.	FIRE HYDRANT	S.V.	SHEET VINYL
F.D.	FLOOR DRAIN	SDG	SIDING
F.R.T.W.	FIRE RETARDANT TREATED WOOD	SPR	SINGLE-PLY ROOFING
FLRG	FLOORING	SCHED	SCHEDULE
		S.S.	SANITARY SEWER
GYP. BD.	GYPSUM BOARD	SQ	SQUARE
GYP	GYPSUM	SECT	SECTION
G.B.	GRAB BAR, GYPSUM BOARD	SPEC	SPECIFICATIONS
GA.	GAUGE	SYS	SYSTEM
GALV	GALVANIZED	SHT	SHEET
GEN	GENERAL	SF	SQUARE FEET
G.C.	GENERAL CONTRACTOR		
GL	GLASS	T&B	TOP AND BOTTOM
H.R.	HAND RAIL	TREAT	TREATED
HD	HAND	TEL	TELEPHONE
HDWD	HARDWOOD	T.O.C.	TOP OF CURB; TOP OF CONCRETE
HDCP	HANDICAP(PED)	T.O.B.	TOP OF BEAM
H	HIGH	T.P.	TOILET PARTITION
HORIZ	HORIZONTAL	T.B.	TACK BOARD
H.M.	HOLLOW METAL	T.B.R.	TO BE REMOVED
HLW	HOLLOW	THK	THICK
HT	HEIGHT	T.J.	TOOLED JOINT
HYD	HYDRANT	T	TREAD
HR	HOUR	THRESH	THRESHOLD
H.C.	HOLLOW CORE	T.O.W.	TOP OF WALL
HDWR	HARDWARE	TOJ	TOP OF JOINT
		TYP	TYPICAL
INSUL	INSULATION, INSULATED	T&G	TONGUE & GROOVE
IN	INCH	THRU	THROUGH
INT	INTERIOR	TPD	TEMPERED
I.D.	INSIDE DIAMETER	TLT	TOILET
INV	INVERT		
INCL	INCLUDE	U.N.O.	UNLESS NOTED OTHERWISE
		U.L. DES.	UNDERWRITER'S LABORATORY DESIGN
JT	JOINT	UR	URINAL
JAN	JANITOR		
JST	JOIST	V.C.P.	VITRIFIED CLAY PIPE
J.B.	JUNCTION BOX	V.C.T.	VINYL COMPOSITION TILE
		V.T.R.	VENT THRU ROOF
KD	KNOCK DOWN	VEST	VESTIBULE
		V.R.	VAPOR RETARDER
LAV	LAVATORY	VERT	VERTICAL
LAM	LAMINATE(D)		
L.P.	LIGHT POLE	W/O	WITHOUT
LT. WT.	LIGHT WEIGHT	W	WITH
LIN	LINEAR	W.W.M.	WELDED WIRE MESH
LT.	LIGHT	W	WEST
		WASH	WASHER
		WD	WOOD
		WDW	WINDOW
		W.O.	WHITE OAK
		W.G.	WALL GUARD
		WT	WEIGHT
		W.F.	WIDE FLANGE
		WP	WATER PROOF
		WC	WATER CLOSET
		WH	WATER HEATER
		∠	ANGLE
		Ø	DIAMETER
		#	NUMBER
		@	AT

ABBREVIATIONS FOR CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL SHEETS ARE THE RESPONSIBILITY OF THE ENGINEERING CONSULTANTS.

WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN
18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, AR 72205
P: 501.224.1900
WWW.WILLIAMSDEAN.COM

NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

:STAMP

JOHN DEAN JOHNSON JR
REGISTERED ARCHITECT
NO. 3885
ARKANSAS
11/1/24

CONSTRUCTION DOCUMENTS

:SHEET TITLE
ARCHITECTURAL GENERAL INFORMATION

:REVISIONS

NO.	DESCRIPTION	DATE

1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

:SHEET NUMBER
G001

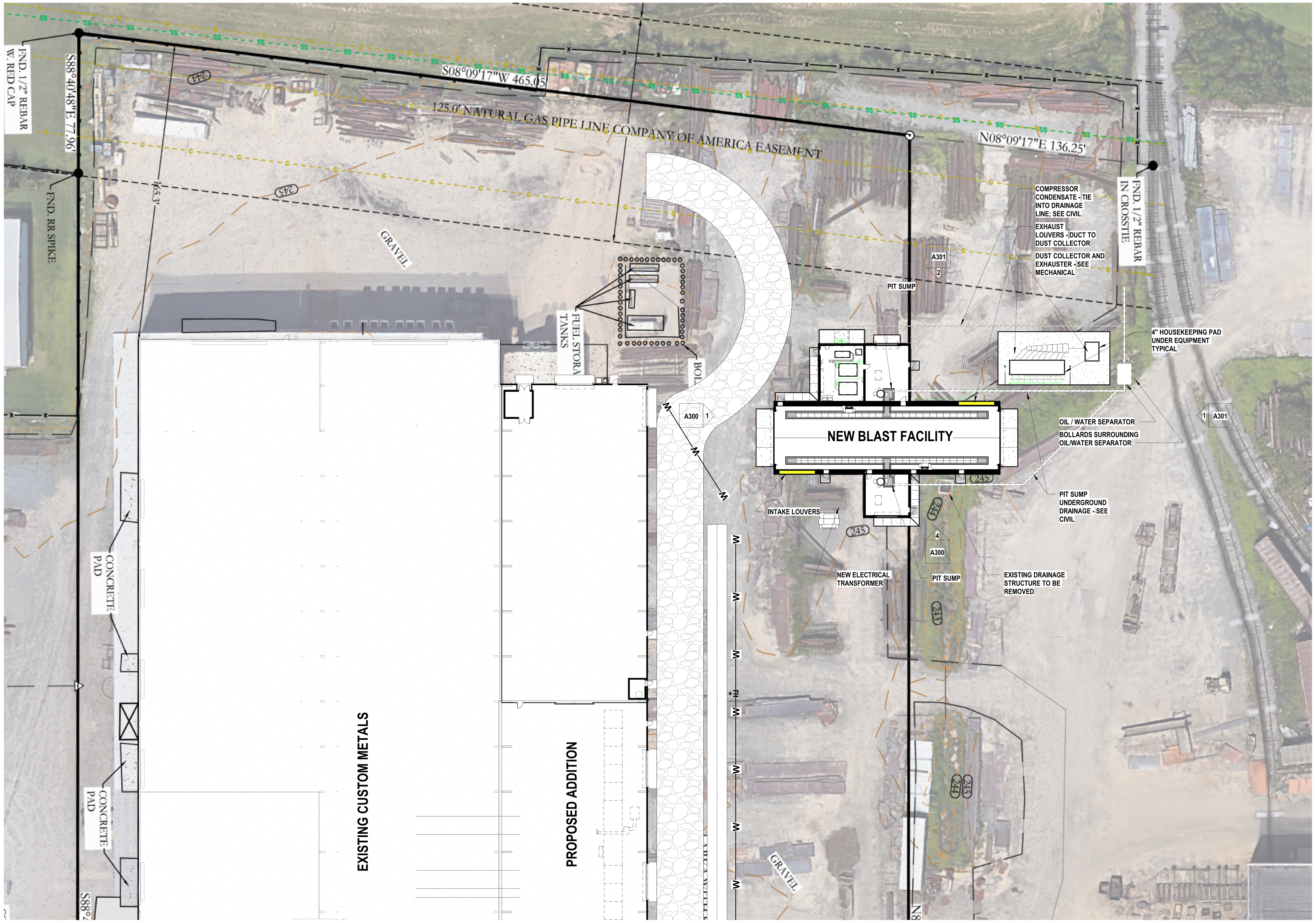
11/1/2024 2:17:10 PM
C:\Users\VDanielMcNulty\Documents\Lexicon Blast Facility_pmcnultyCS7R8Lr.rvt

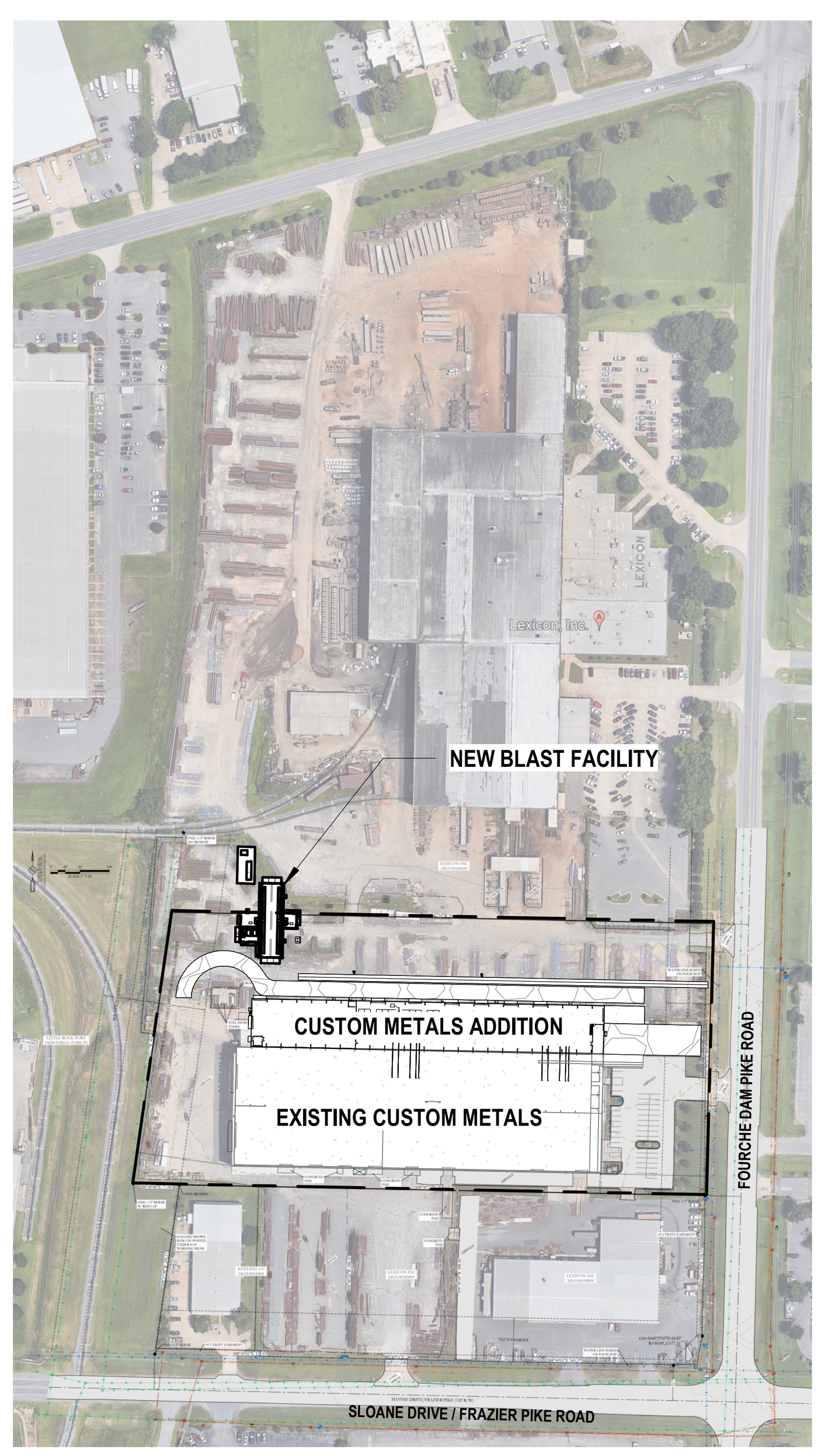
ARKANSAS ONE CALL
811

CALL AT LEAST 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

GENERAL ARCHITECTURAL SITE NOTES

1. GENERAL CONTRACTOR TO BE RESPONSIBLE FOR VERIFYING ALL EXISTING SITE UTILITIES, AND HAVING THEM MARKED PRIOR TO DISTURBING THE SITE IN ANY WAY.
2. GENERAL CONTRACTOR TO VERIFY ALL EXISTING SITE CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH PROVIDED PLANS, SURVEYS, OR DESCRIBED CONDITIONS PRIOR TO PROCEEDING WITH ANY SITE WORK.
3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED BY THE GENERAL CONTRACTOR.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF PROPERTY CORNERS.
5. ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPE OR OBJECT, OR FACE OF BUILDING UNLESS NOTED OTHERWISE.
6. ANY EXISTING STRUCTURES WITHIN CONSTRUCTION AREA THAT ARE TO BE ABANDONED, REMOVED OR RELOCATED, SHALL BE DONE IN A PROPER MANNER OFFSITE, AS NECASSARY. ALL COST SHALL BE INCLUDED BY THE GENERAL CONTRACTOR.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING SITE IMPROVEMENTS (ASPHALT/CONCRETE PAVING, CURBS AND GUTTERS, SIDEWALKS, ETC.) WHICH ARE TO REMAIN.
8. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF EXISTING SITE IMPROVEMENTS (ASPHALT/CONCRETE PAVING, CURBS AND GUTTERS, SIDEWALKS, ETC.) DAMAGED DURING CONSTRUCTION. GENERAL CONTRACTOR SHALL DOCUMENT ANY EXISTING DAMAGE TO SITE ELEMENTS THEY DO NOT WANT TO BE HELD RESPONSIBLE FOR REPAIRING.
9. EXPANSION JOINTS TO BE PLACED WHERE BUILDING FOUNDATION MEETS CONCRETE PAVEMENT OR SIDEWALK.
10. GENERAL CONTRACTOR TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL THROUGHOUT THE DURATION OF CONSTRUCTION.
11. ALL DISTURBED GRAVEL AREAS OUTSIDE OF THE AREA OF WORK DESCRIBED IN THE CIVIL DRAWINGS IS TO BE REGRADED. GENERAL CONTRACTOR IS RESPONSIBLE FOR BRINGING THE AREA BACK TO USABLE CONDITION AFTER BEING DISTURBED.





N

2 OVERALL SITE PLAN - TRUE NORTH
1" = 300'-0"

TRUE PROJECT

1 ARCHITECTURAL SITE PLAN
1" = 30'-0"

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NEW BLAST FACILITY FOR
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8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

:STAMP
JOHN DEAN JOHNSON JR. REGISTERED ARCHITECT No. 3855 ARKANSAS
11/1/24

CONSTRUCTION DOCUMENTS

:SHEET TITLE
ARCHITECTURAL SITE PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

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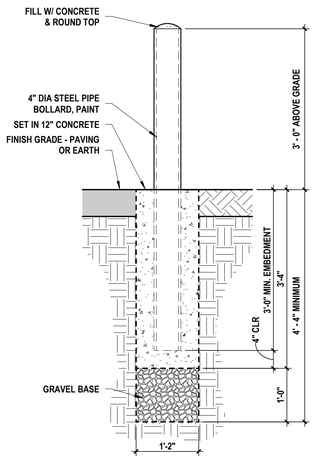
A100



2 BOLLARD DETAIL - 6" DIA.
3/4" = 1'-0"

GENERAL PLAN NOTES

1. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO START OF WORK. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCY WITH THE PLANS AND SPECIFICATIONS PRIOR TO BEGINNING WORK.
2. VERIFY ALL DOOR AND WINDOW SIZES AND LOCATIONS PRIOR TO WALL LAYOUT WITH THE OWNER.
3. GENERAL CONTRACTOR TO COORDINATE ALL OWNER PROVIDED EQUIP.
4. ALL DIMENSIONS ARE GIVEN FROM FACE OF STUD OR FACE OF MASONRY (UNLESS NOTED OTHERWISE).
5. ALL INSIDE FACE OF DOOR JAMBS ARE LOCATED 4" FROM ADJACENT WALL TO DOOR HINGE JAMB (UNLESS NOTED OTHERWISE).
6. GENERAL CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL HUNG 'MEP' EQUIPMENT, REFER TO 'MEP' DRAWINGS TO COORDINATE LOCATIONS.
7. GENERAL CONTRACTOR TO PROVIDE BLOCKING AT ALL WALL HUNG SHELVING, TOILET PARTITIONS, TOILET ACCESSORIES, GRAB BARS, MIRRORS, ETC. GENERAL CONTRACTOR TO COORDINATE LOCATION OF WALL HUNG ITEMS WITH OWNER PRIOR TO COVER UP OF BLOCKING.
8. EQUIPMENT SHOWN IS FOR GENERAL INFORMATION PURPOSES, AND SHOULD BE VERIFIED WITH OWNER.
9. PROVIDE SOUND ATTENUATION BLANKETS AT ALL NEW WALLS AT TOILET AREAS.
10. COORDINATE ALL OVERHEAD AND UNDER SLAB UTILITIES WITH THE ONWER.
11. REFER TO CIVIL FOR UTILITY WORK 5'-0" OUTSIDE OF THE BUILDING'S FOOTPRINT.

1 ARCHITECTURAL FLOOR PLAN
1/8" = 1'-0"

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11/1/24

CONSTRUCTION DOCUMENTS

:SHEET TITLE
FLOOR PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

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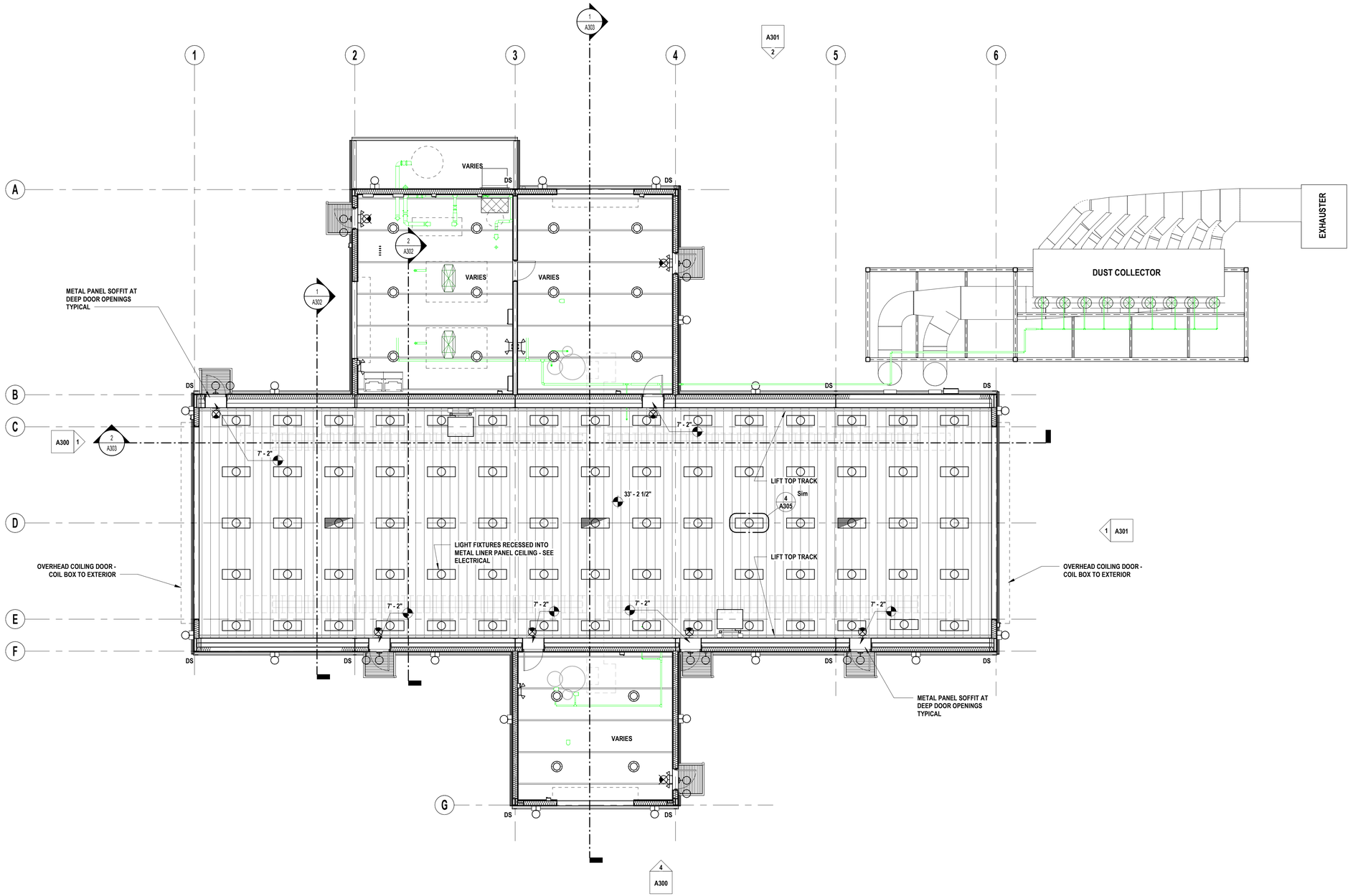
A200

GENERAL RCP NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE & HVAC GRILL TYPES.
2. REFER TO ELECTRICAL FOR ALL LIGHT FIXTURES NOT SHOWN ON THIS DRAWING.
3. CENTER RECESSED CAN LIGHTS IN LAY-IN CEILING TILE, UNLESS NOTED OTHERWISE.



N

1 ARCHITECTURAL REFLECTED CEILING PLAN
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

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REFLECTED CEILING PLAN

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A201

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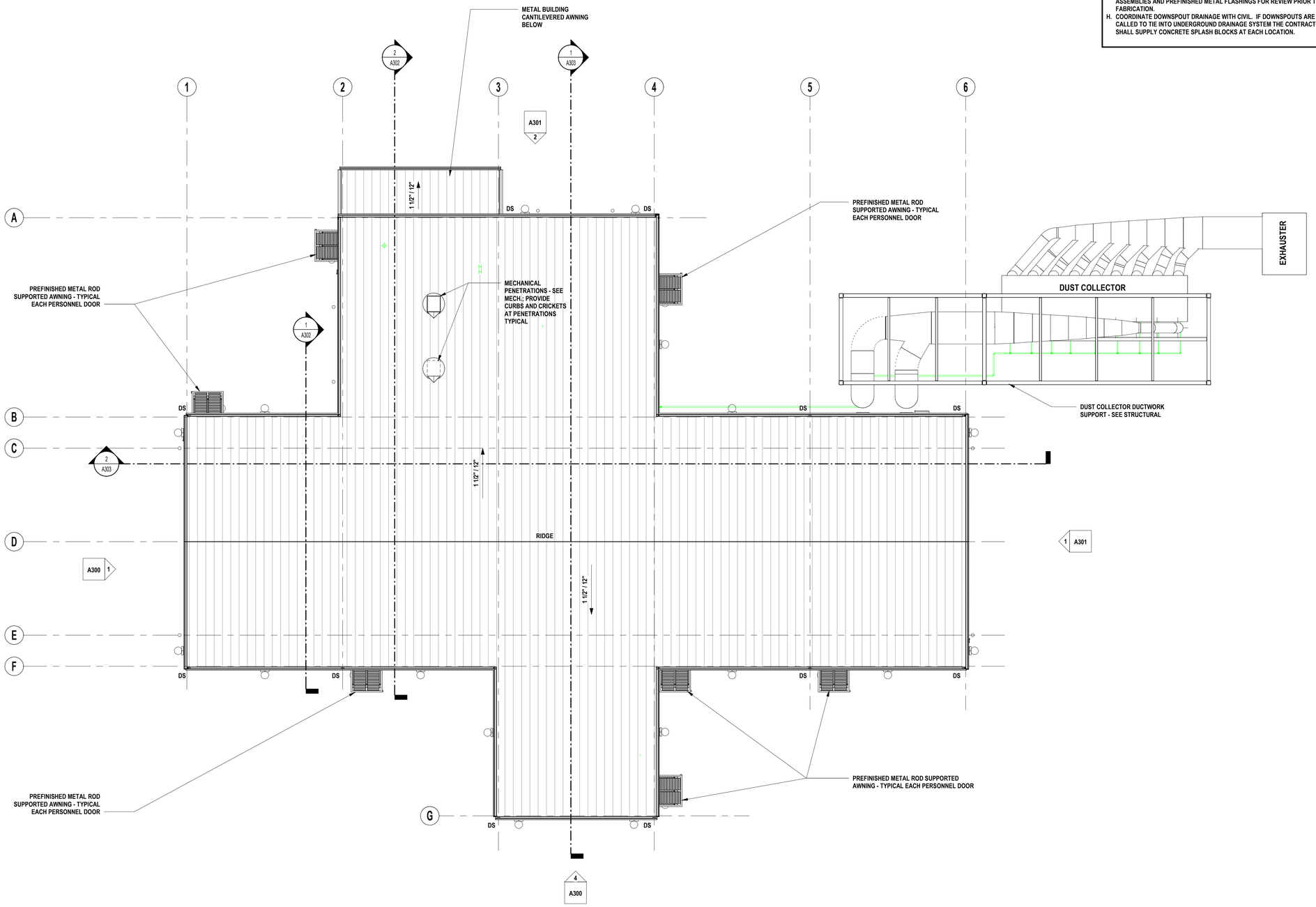
GENERAL ROOF NOTES

A. THE ROOFING SYSTEM SHALL BE A TRAPEZOIDAL LEG STANDING SEAM ROOF SYSTEM EQUAL TO MBCI ULTRA-DEK 24" WIDE PANELS.
B. FLASHING & ROOF DETAILS - SINCE ROOF MANUFACTURERS HAVE DIFFERENT DETAILS FOR INSTALLATION OF THEIR ROOF SYSTEMS, FLASHING CONDITIONS, ETC., THE DETAILS SHOWN ON THE DRAWINGS ARE TO BE CONSIDERED DESIGN INTENT. ITEMS SUCH AS PARAPET FLASHING, CANTS, BLOCKING, ROOF PENETRATIONS AND EXPANSION JOINTS ARE TO BE INSTALLED PER MANUFACTURER'S DETAILS. THE GC IS TO SUBMIT THE MANUFACTURER'S STANDARD ROOF DETAILS PRIOR TO THE BEGINNING OF THE WORK.
C. REFER TO STRUCTURAL DRAWINGS FOR DECK BEARING ELEVATION AT ROOF STRUCTURE.
D. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL ITEMS ON OR THROUGH ROOF.
E. CLEAN ROOF OF ALL CONSTRUCTION DEBRIS DURING CONSTRUCTION AND AT PROJECT COMPLETION.
F. ALL FABRICATED SHEET METAL ASSEMBLIES OR PREFINISHED METAL FLASHINGS SHALL MEET MINIMUM REQUIREMENTS PER SMACNA (SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION).
G. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL SHEET METAL ASSEMBLIES AND PREFINISHED METAL FLASHINGS FOR REVIEW PRIOR TO FABRICATION.
H. COORDINATE DOWNSPOUT DRAINAGE WITH CIVIL. IF DOWNSPOUTS ARE NOT CALLED TO TIE INTO UNDERGROUND DRAINAGE SYSTEM THE CONTRACTOR SHALL SUPPLY CONCRETE SPLASH BLOCKS AT EACH LOCATION.



N **1 ARCHITECTURAL ROOF PLAN**
1/8" = 1'-0"

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ROOF PLAN

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A203

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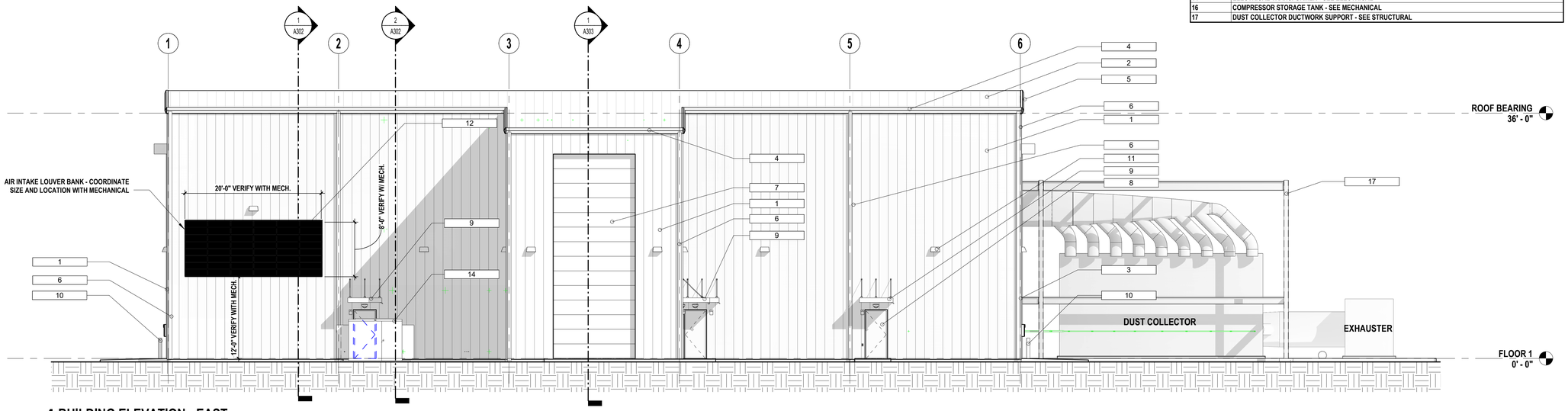
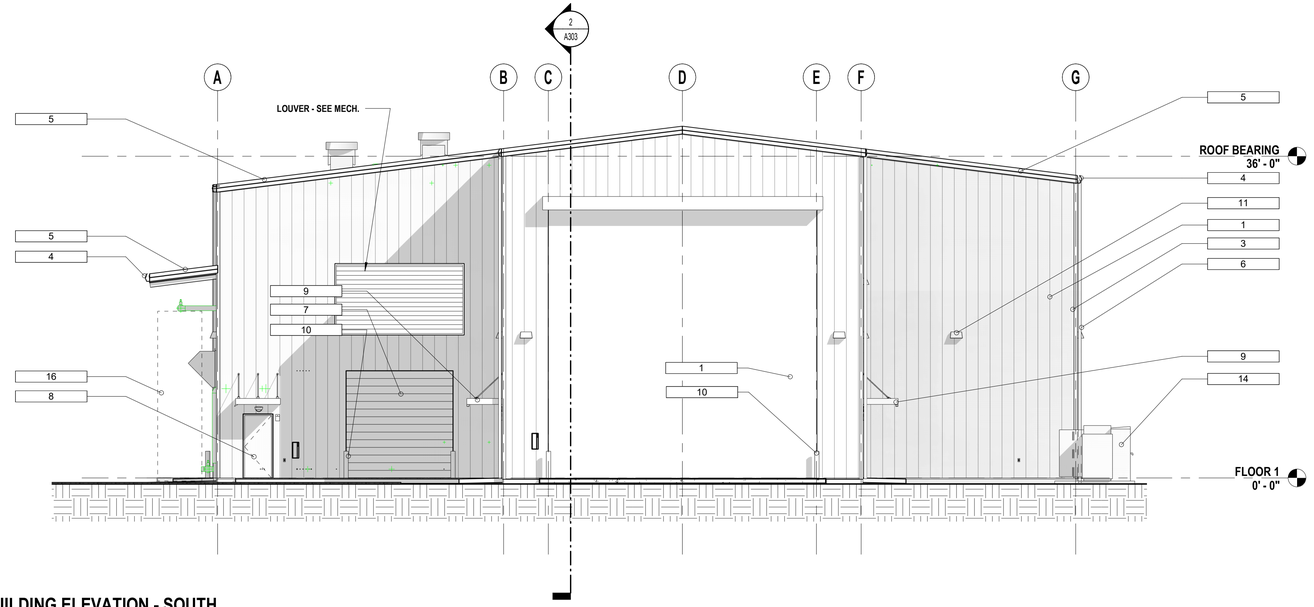
EXTERIOR MATERIALS

NUM.	MATERIAL
1	METAL BUILDING WALL PANELS
2	METAL BUILDING ROOF PANELS
3	METAL BUILDING CORNER TRIM
4	METAL BUILDING GUTTER SYSTEM
5	METAL BUILDING RAKE FLASHING
6	PREFINISHED METAL DOWNSPOUTS
7	OVERHEAD COILING DOOR - SEE SCHEDULE
8	EXTERIOR PERSONNEL DOOR - SEE SCHEDULE
9	PREFINISHED METAL ROD SUPPORTED AWNING
10	STEEL PIPE BOLLARD
11	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL
12	INTAKE LOUVERS - SEE MECHANICAL
13	EXHAUST LOUVER DUCT CONNECTION - SEE MECHANICAL
14	ELECTRICAL TRANSFORMER - SEE ELECTRICAL
16	COMPRESSOR STORAGE TANK - SEE MECHANICAL
17	DUST COLLECTOR DUCTWORK SUPPORT - SEE STRUCTURAL



4 BUILDING ELEVATION - EAST
1/8" = 1'-0"



1 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

:SHEET TITLE
BUILDING ELEVATIONS

:REVISIONS

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24-007 :PROJECT NUMBER

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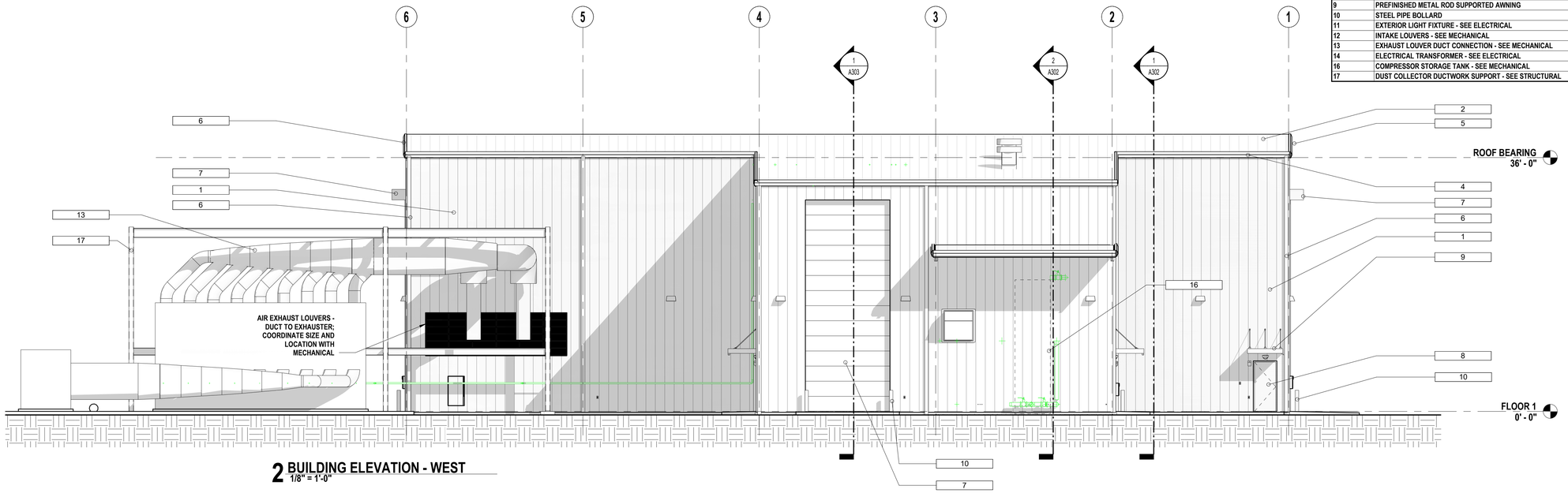
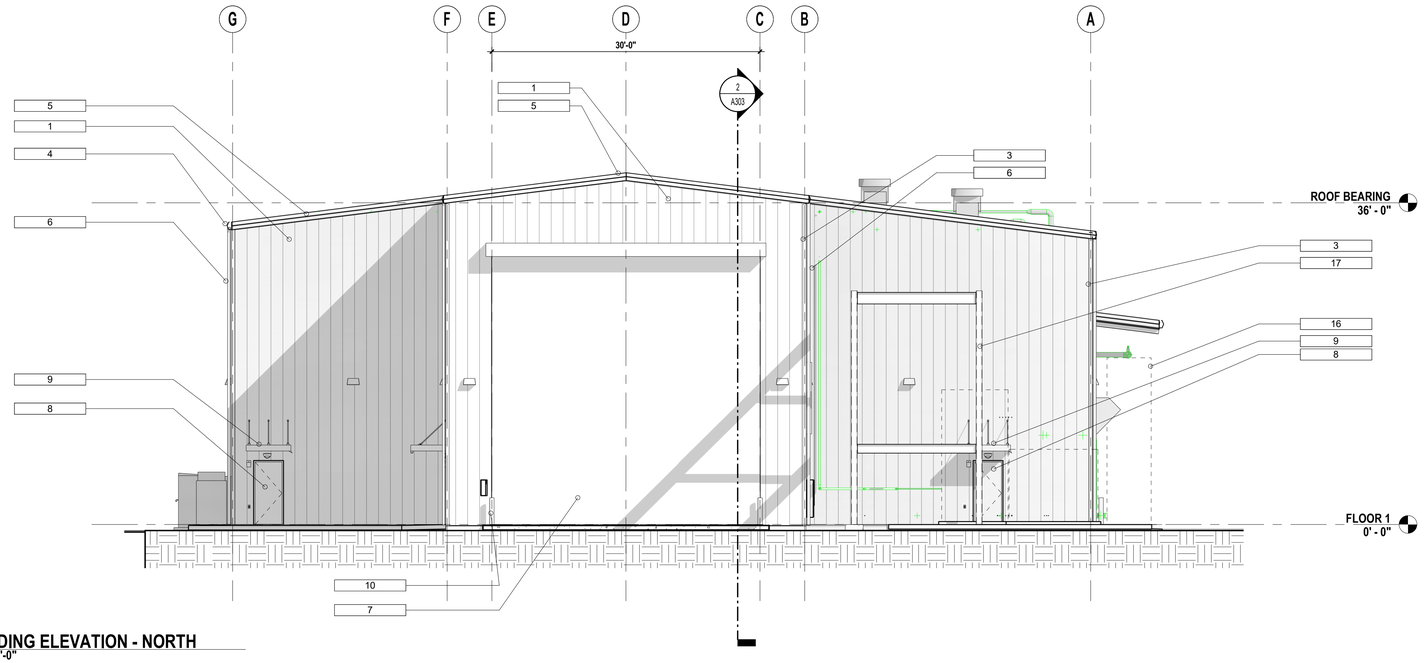
A300

EXTERIOR MATERIALS

NUM.	MATERIAL
1	METAL BUILDING WALL PANELS
2	METAL BUILDING ROOF PANELS
3	METAL BUILDING CORNER TRIM
4	METAL BUILDING GUTTER SYSTEM
5	METAL BUILDING RAKE FLASHING
6	PREFINISHED METAL DOWNSPOUTS
7	OVERHEAD COILING DOOR - SEE SCHEDULE
8	EXTERIOR PERSONNEL DOOR - SEE SCHEDULE
9	PREFINISHED METAL ROD SUPPORTED AWNING
10	STEEL PIPE BOLLARD
11	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL
12	INTAKE LOUVERS - SEE MECHANICAL
13	EXHAUST LOUVER DUCT CONNECTION - SEE MECHANICAL
14	ELECTRICAL TRANSFORMER - SEE ELECTRICAL
16	COMPRESSOR STORAGE TANK - SEE MECHANICAL
17	DUST COLLECTOR DUCTWORK SUPPORT - SEE STRUCTURAL



2 BUILDING ELEVATION - WEST
1/8" = 1'-0"



1 BUILDING ELEVATION - NORTH
1/8" = 1'-0"

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A301

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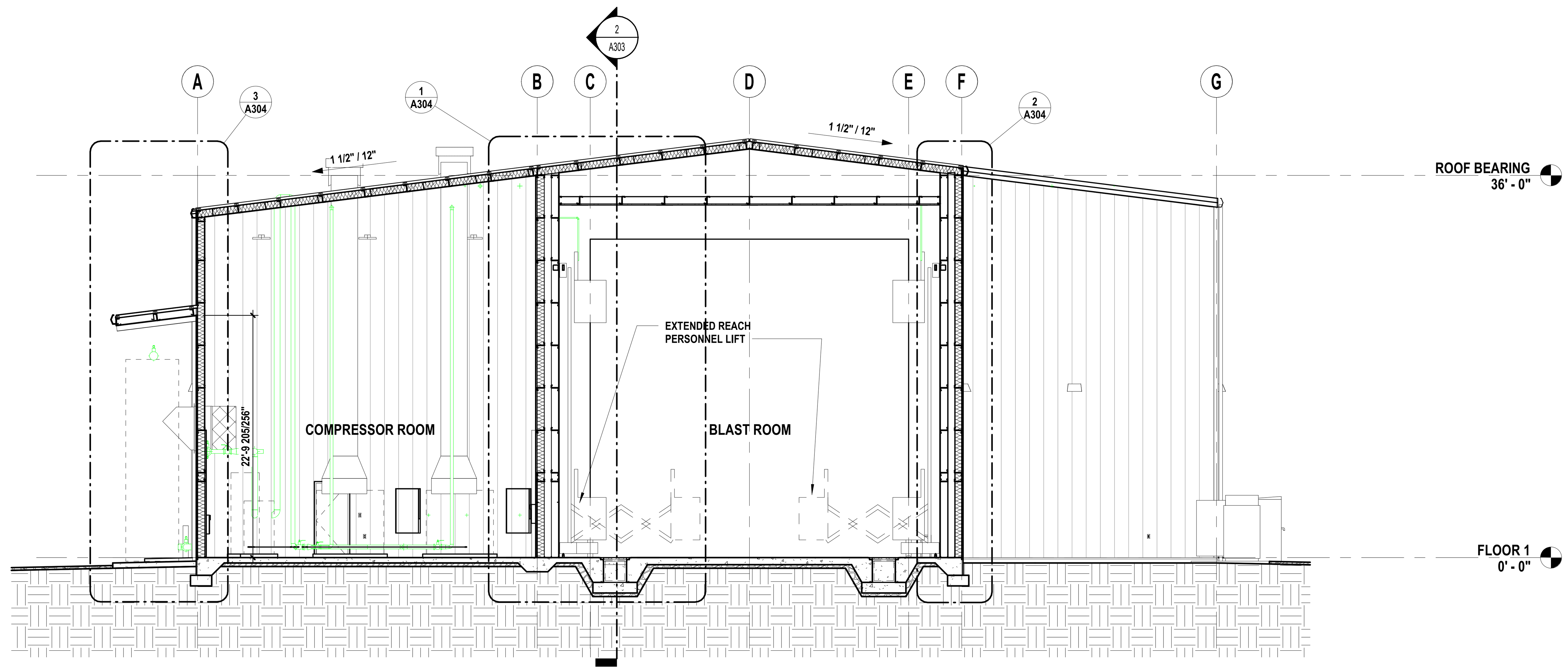
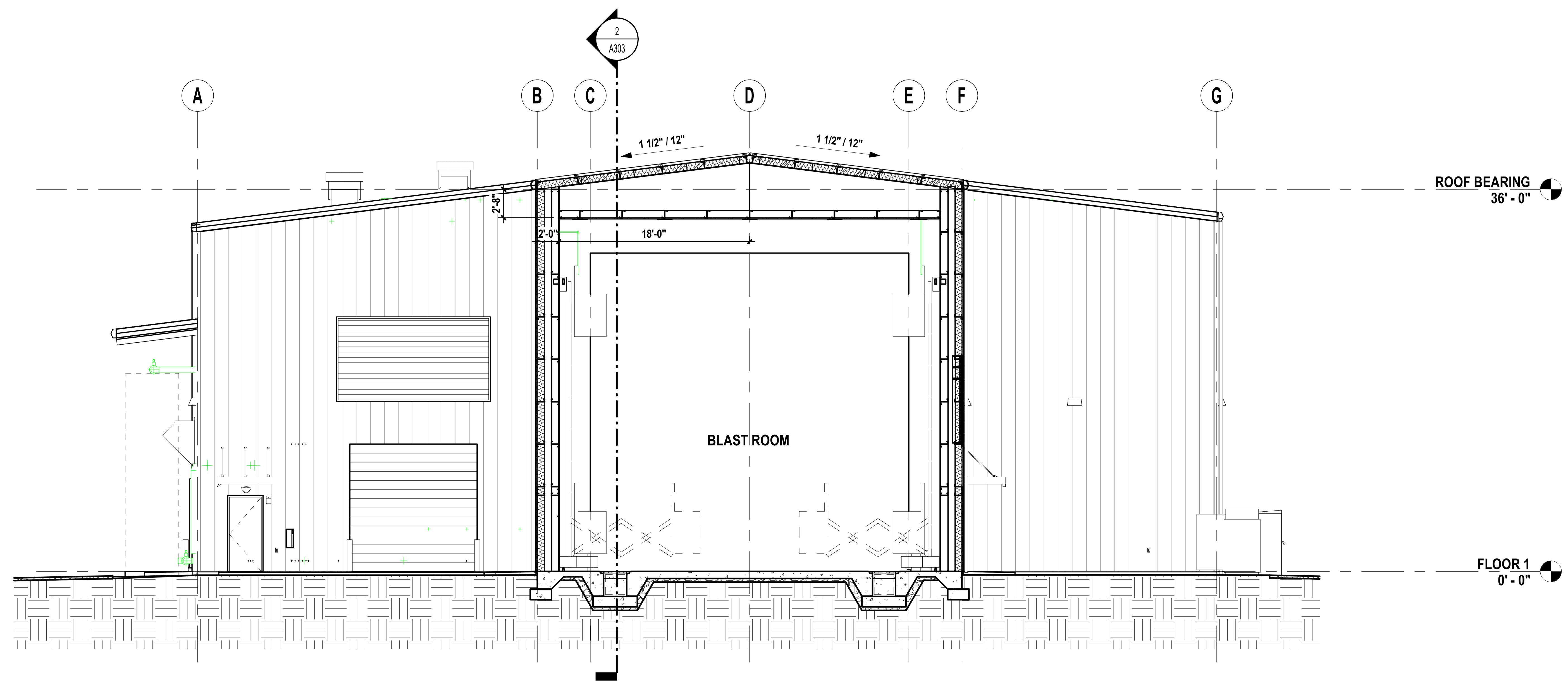


2 BUILDING SECTION - COMPRESSOR ROOM AND BLAST ROOM
1/8" = 1'-0"



1 BUILDING SECTION - TYPICAL BLAST ROOM
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

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BUILDING SECTIONS

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1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

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A302

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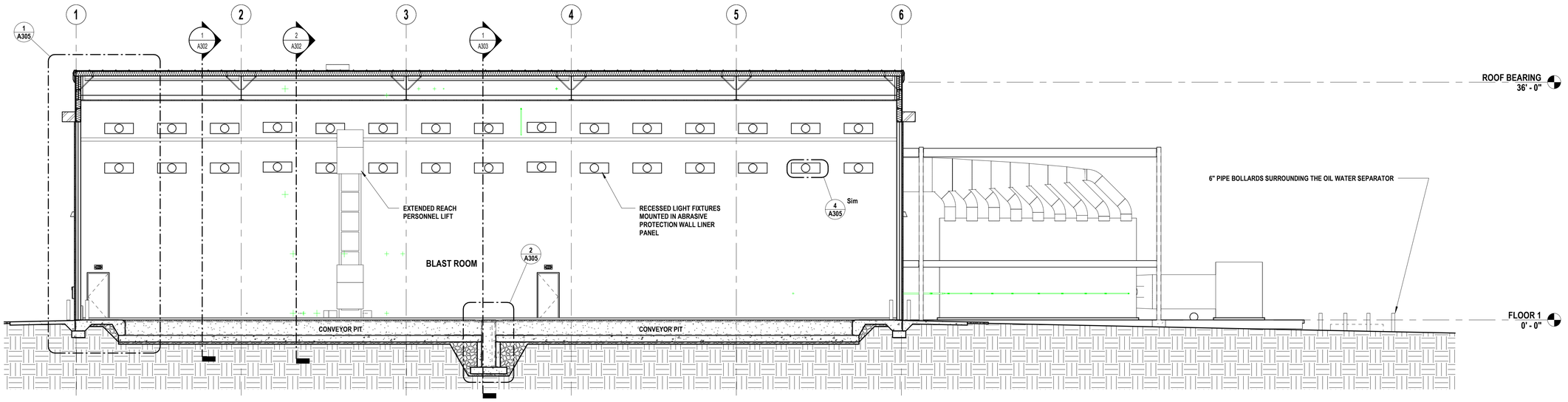
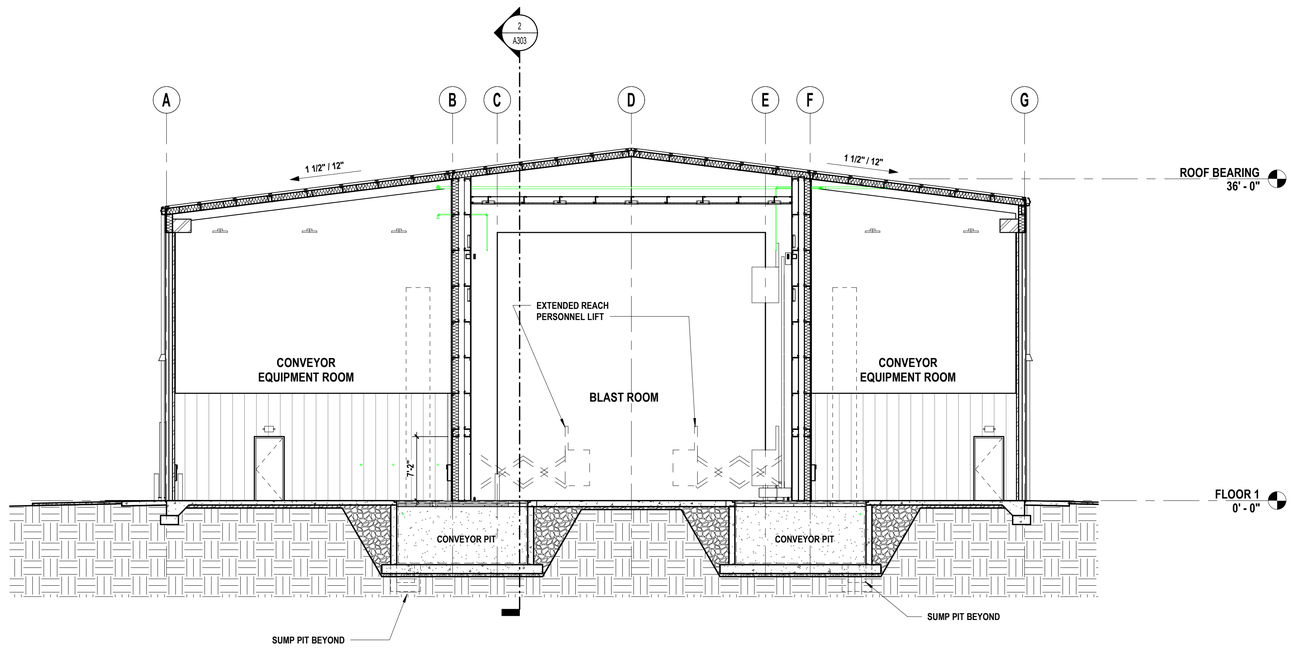


2 BUILDING SECTION - LONGITUDINAL AT BLAST ROOM
1/8" = 1'-0"



1 BUILDING SECTION - CONVEYOR EQUIPMENT ROOMS
1/8" = 1'-0"

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BUILDING SECTIONS

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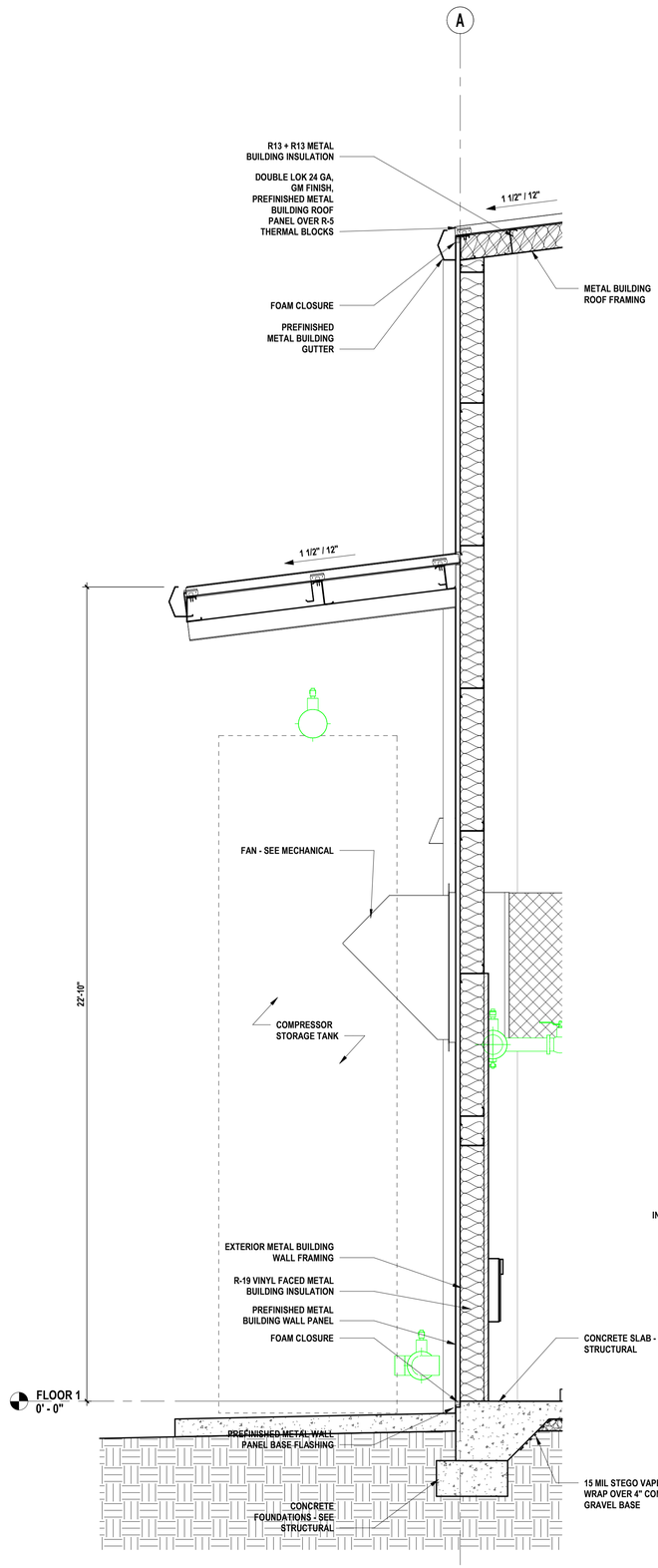
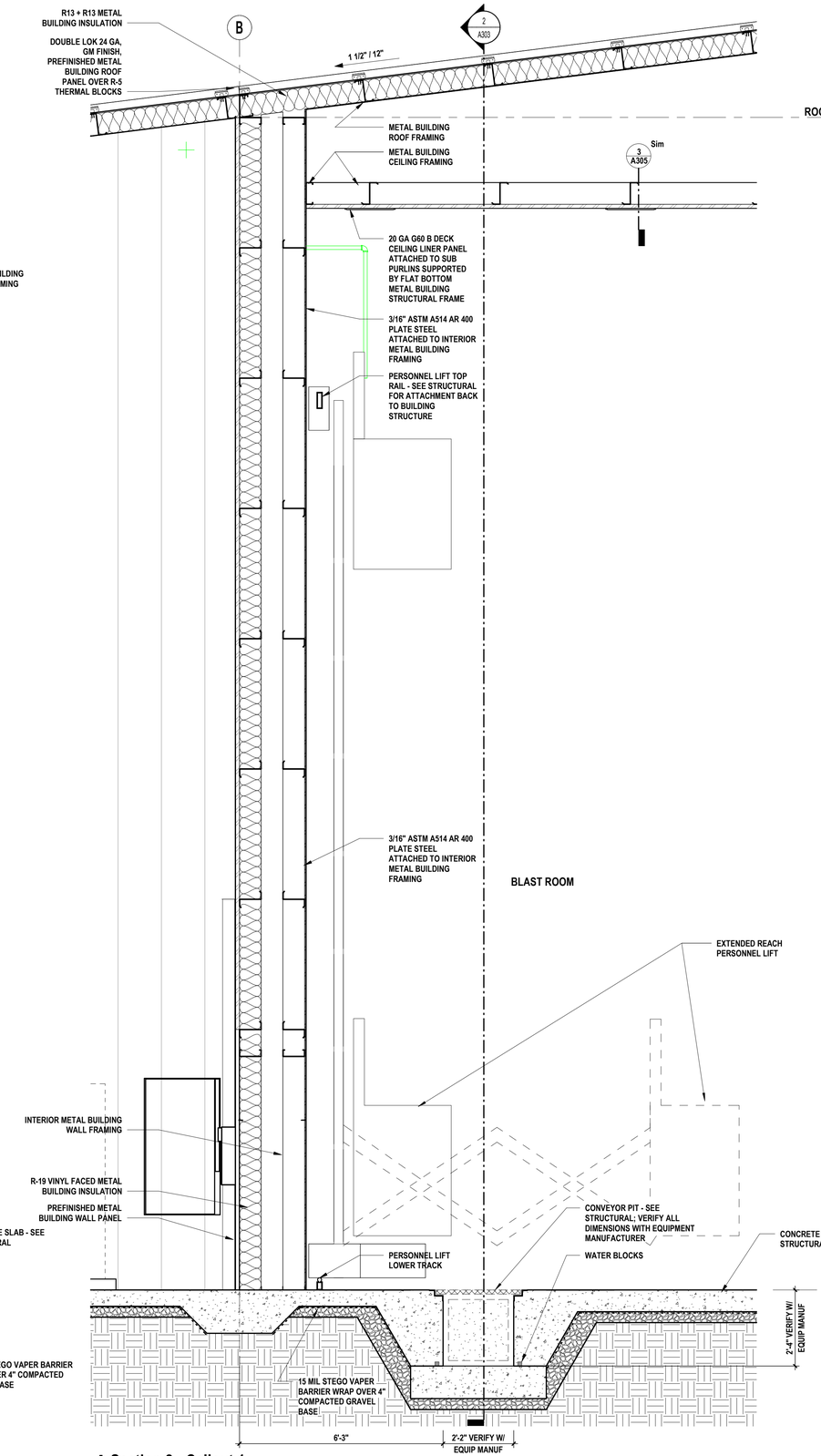
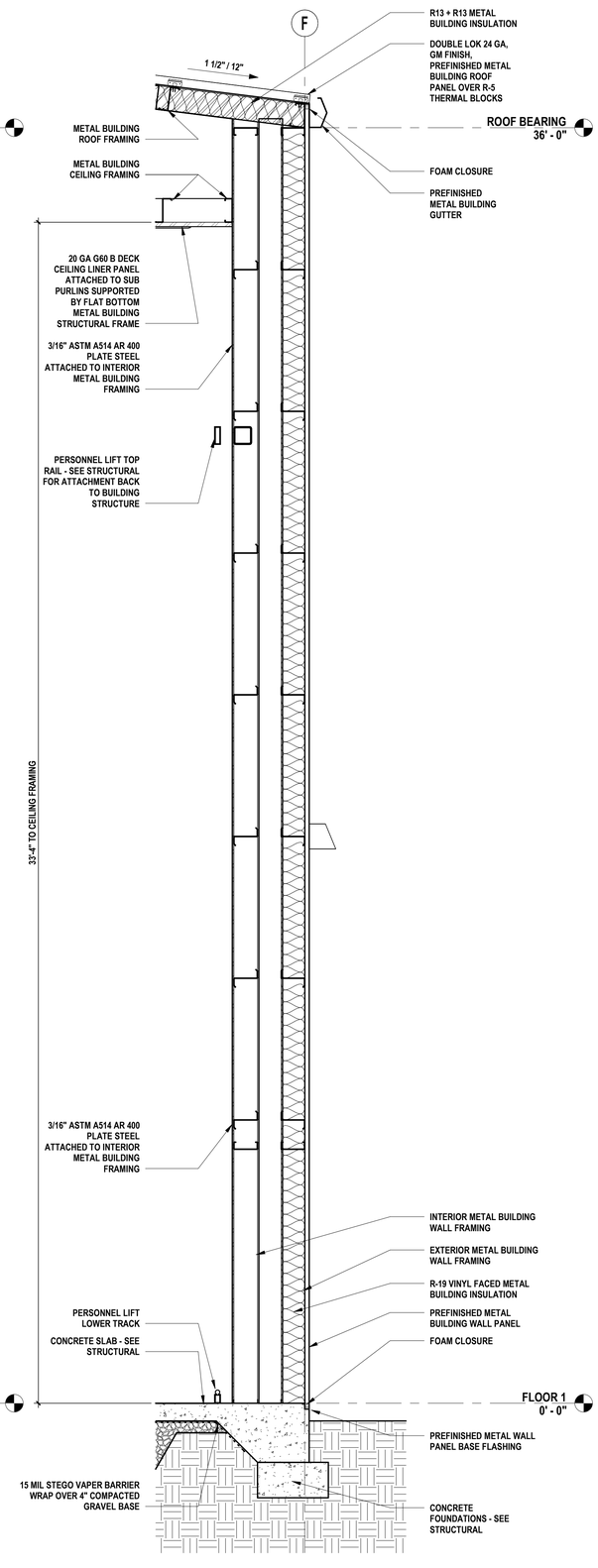
A303



3 Section 2 - Callout 3
1/2" = 1'-0"



1 Section 2 - Callout 1
1/2" = 1'-0"



2 Section 2 - Callout 2
1/2" = 1'-0"

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11/1/24

CONSTRUCTION DOCUMENTS

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WALL SECTIONS

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A304

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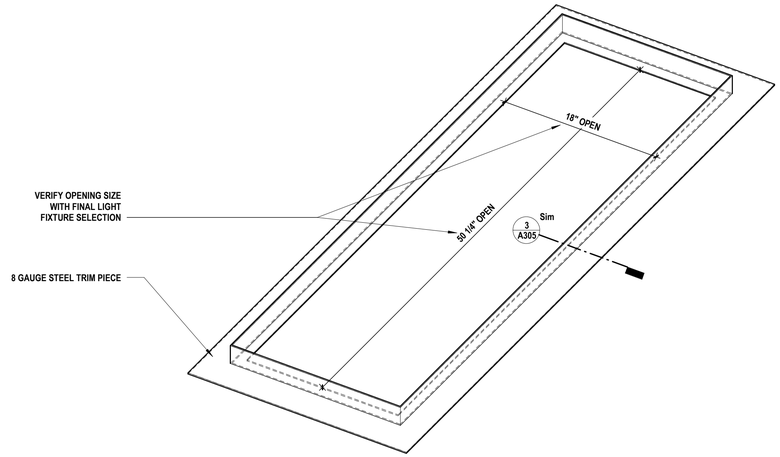
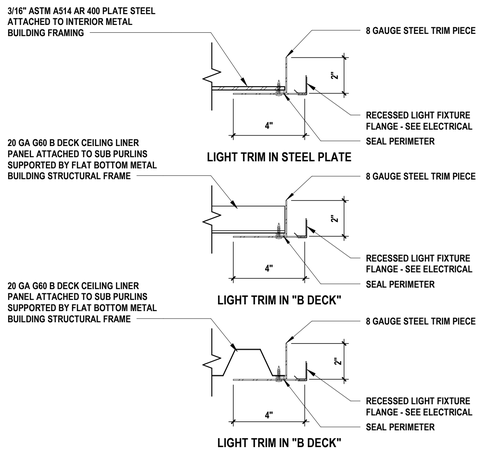
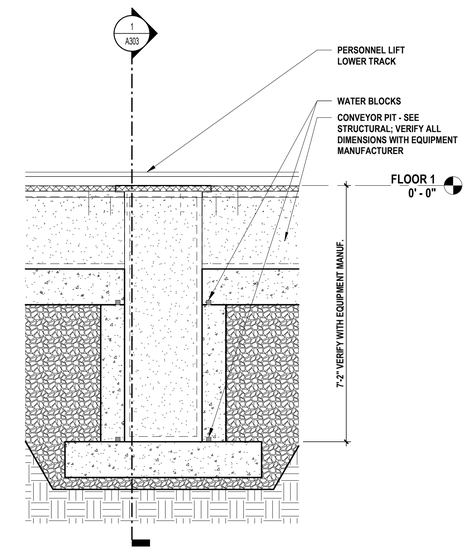


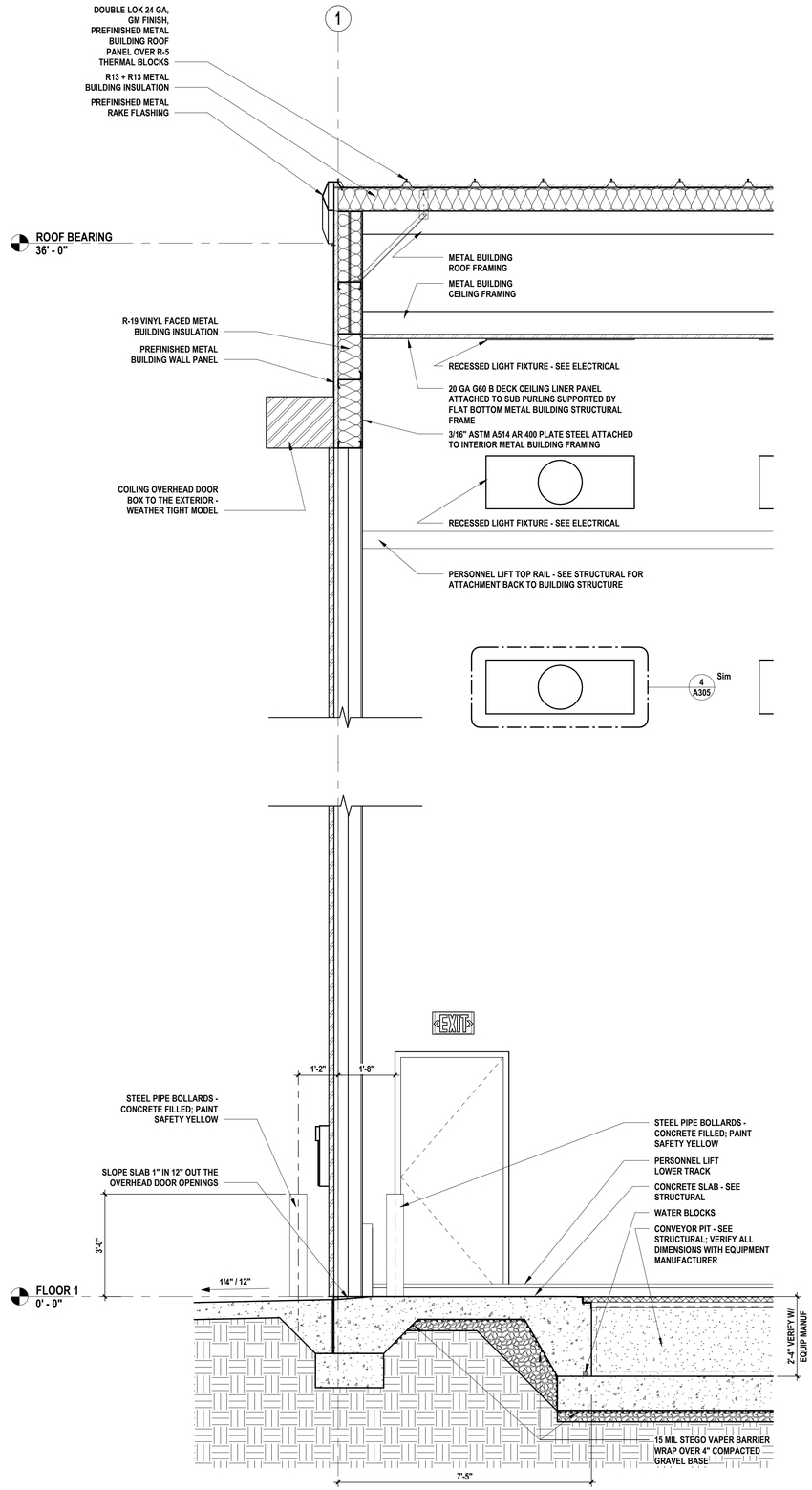
4 LIGHT TRIM AXON
1 1/2" = 1'-0"



3 RECESSED PROTECTED LIGHT FIXTURE DETAILS
3" = 1'-0"



2 DETAIL SECTION - CONVEYOR PIT
1/2" = 1'-0"



1 WALL SECTION - OVERHEAD DOOR AT BLASTROOM
1/2" = 1'-0"

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WALL SECTIONS

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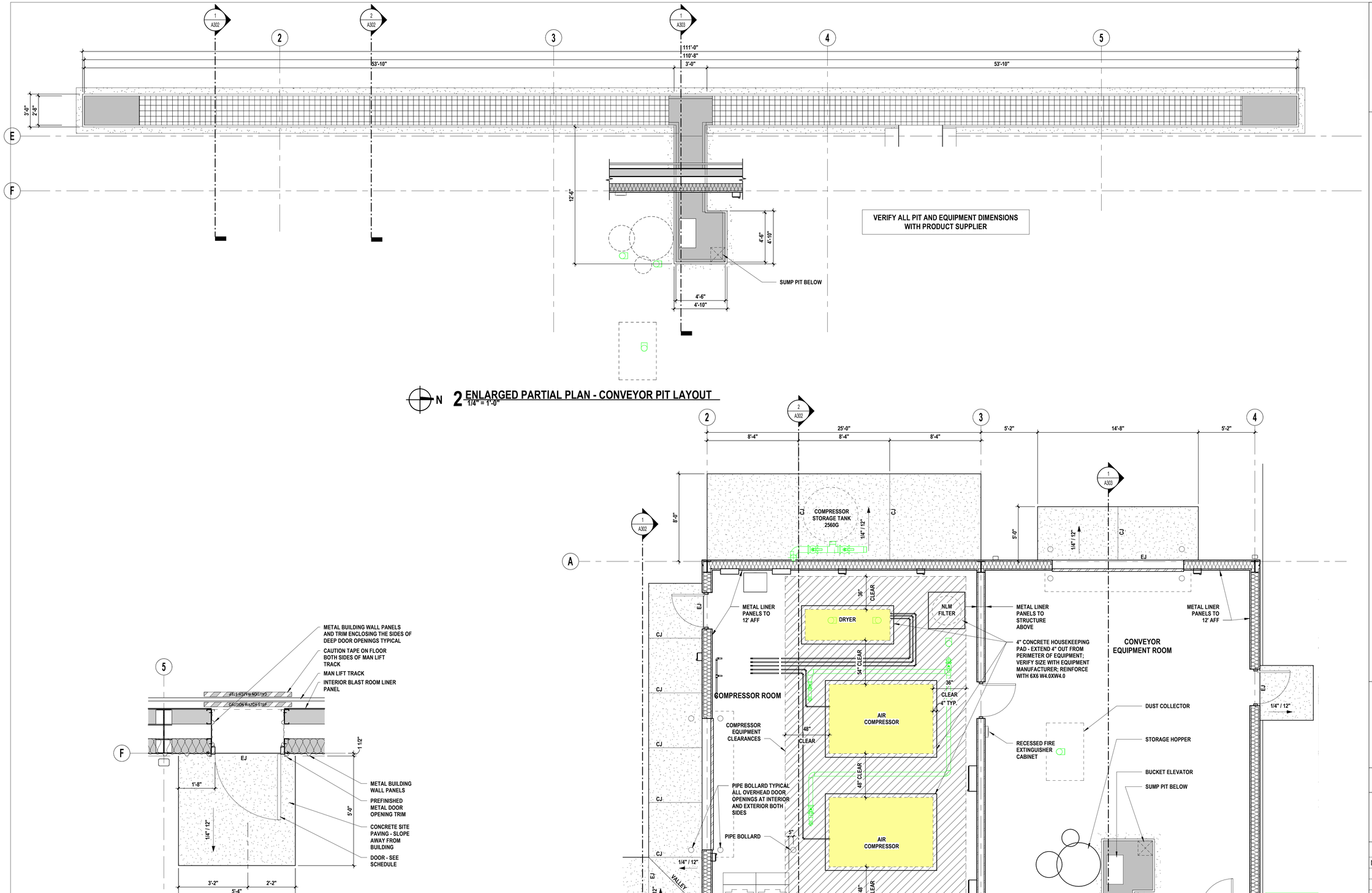
A305



N **2 ENLARGED PARTIAL PLAN - CONVEYOR PIT LAYOUT**
1/4" = 1'-0"

3 ENLARGED PLAN - TYPICAL EXTERIOR DOOR
1/2" = 1'-0"

N **1 ENLARGED PARTIAL PLAN - WEST COVERED SHED AREA**
1/4" = 1'-0"

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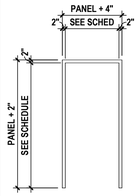
A400

DOOR FRAME TYPE LEGEND

1. TYPICAL DOOR FRAME MATERIAL TYPES:
   AL = ALUMINUM DOOR FRAME
   HM = HOLLOW METAL DOOR FRAME
   WD = WOOD DOOR FRAME



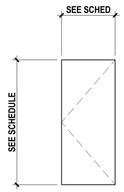
HM1

HOLLOW METAL FRAME
SEE DOOR SCHEDULE
COMMENTS FOR UNIQUE
VARIATIONS

DOOR PANEL TYPE LEGEND

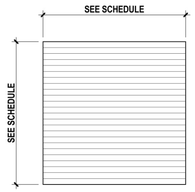
1. TYPICAL DOOR TYPES:
   AL = PREFIX FOR ALUMINUM DOOR PANEL
   HM = PREFIX FOR HOLLOW METAL DOOR PANEL
   WD = PREFIX FOR WOOD DOOR PANEL
   BN = BARN DOOR
   OHC = OVERHEAD COILING
   OHS = OVERHEAD SECTIONAL

2. TYPICAL DOOR CONFIGURATIONS:
   F = FLUSH
   E = PANELED (# SUFFIX DETERMINES NUMBER OF PANELS, EX. E2 WOULD EQUAL 2 PANEL DOOR)
   N = NARROW VISION LITE
   V = VISION LITE
   G = HALF GLASS
   FG = FULL GLASS
   D = DUTCH
   L = LOUVERED



HM-F-EXT

18 GA. FLUSH PANEL
INSULATED HOLLOW
METAL DOOR



OHC-M-EXT

OVERHEAD COILING DOOR
NON-INSULATED

DOOR SCHEDULE

DOOR NUMBER	SIZE			TYPE		HARDWARE SET NUMBER	DOOR FIRE RATING	CLOSER	PANIC DEVICE	COMMENTS
	WIDTH	HEIGHT	THICKNESS	DOOR	FRAME					
100A	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
100B	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
100C	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
100D	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
101A	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1					
101B	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1					
102A	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1					
102B	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
103	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1			●		
103B	3' - 0"	7' - 0"	1 3/4"	HM-F-EXT	HM1					
OH100A	30' - 0"	30' - 0"	1 3/4"	OHC-M-EXT						COILING BOX AND OPERATOR TO EXTERIOR OF BUILDING; DUST PROOF CONTROL BUTTONS
OH100B	30' - 0"	30' - 0"	1 3/4"	OHC-M-EXT						COILING BOX AND OPERATOR TO EXTERIOR OF BUILDING; DUST PROOF CONTROL BUTTONS
OH101	12' - 0"	30' - 0"	1 3/4"	OHC-M-EXT						
OH102	12' - 0"	30' - 0"	1 3/4"	OHC-M-EXT						
OH103	12' - 0"	12' - 0"	1 3/4"	OHC-M-EXT						

GENERAL DOOR NOTES

1. DOOR FRAME OPENINGS ARE TO BE HELD 4" FROM FINISH WALL TYPICAL, UNLESS DIMENSIONED OR NOTED OTHERWISE
2. DOOR CLOSER TO BE MOUNTED ON INSIDE OF DOOR TYPICAL, UNLESS NOTED OTHERWISE. NO CLOSER TO BE VISIBLE FROM CORRIDOR SIDE OF DOOR.
3. WHERE DOOR SCHEDULE INDICATES A DOOR CLOSER THE BUTTS ARE TO BE OF THE BALL BEARING TYPE, TYPICAL.
4. ALL DOOR HARDWARE TO BE LEVER OR PUSH/PULL TYPE, NOT REQUIRING GRASPING OR TWISTING.
5. PROVIDE THREE (3) NEW, GRAY, DOOR SILENCERS FOR ALL NEW DOORS AS WELL AS EXISTING DOORS IF APPLICABLE.
6. COORDINATE KEYING WITH TENANT AND LANDLORD.
7. PROVIDE ONE (1) GRANDMASTER KEY FOR LANDLORD.
8. PROVIDE FOUR (4) MASTER KEYS FOR TENANT.
9. PROVIDE TEMPORARY CONSTRUCTION CORES AS NEEDED.

WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN
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LITTLE ROCK, AR 72205
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NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

:STAMP

JOHN DEAN JOHNSON JR
REGISTERED ARCHITECT
No. 3855
ARKANSAS
11/1/24

CONSTRUCTION DOCUMENTS

:SHEET TITLE
DOOR SCHEDULE AND TYPES

:REVISIONS

NO.	DESCRIPTION	DATE

1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

:SHEET NUMBER
A500

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ABBREVIATION LEGEND

A.R.	ANCHOR RODS
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
B PL	BASE PLATE
BF	BOTTOM OF FOOTING
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BOTTOM OF PIER
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL SHAPE (i.e. C8x11.5)
C	COLD FORMED C SHAPE
C.G.	CENTER OF GRAVITY
CJ	(KEYED) CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DLH	DEEP LONGSPAN JOIST (i.e. 60DLH12)
DSE	COLD-FORMED DOUBLE SLOPED EAVE STRUT
DTL	DETAIL
DWLS	DOWELS
EA	EACH
EBC	EXTENDED BOTTOM CHORD
EJ	EXPANSION JOINT
EL.	ELEVATION
ELEV	ELEVATION
EMBED	EMBEDMENT LENGTH
EOS	EDGE OF SLAB
ERECT	ERECTION
EWEF	EACH WAY, EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FV	FIELD VERIFY
FAS	FROM ADJACENT SPAN
FFE	FINISHED FLOOR ELEVATION
FIN FLR EL	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
Fy	STEEL YIELD STRENGTH
G	JOIST GIRDER (i.e. 24G8N7K)
GA	GAUGE
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	H-PILE SHAPE (i.e. HP8x36)
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
I/S	INSIDE
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JT	JOINT
k	K-JOIST (i.e. 12k1 S.J.)
K	KIPS (KILO-POUNDS)
k/ft	KIPS PER FOOT
kcs	CONSTANT SHEAR JOIST (i.e. 12kcs2 S.J.)
KD	KILN-DRIED
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE (i.e. L3x3x1/4)
LH	LONGSPAN JOIST (i.e. 32LH05)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
LWB	LAM. WOOD BEAM (i.e. LWB3x11)
M.B.	METAL BUILDING
MC	MOMENT CONNECTION
MAT'L	MATERIAL
MAX	MAXIMUM
MC	MISC. CHANNEL SHAPE (i.e. MC12x10.6)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
N	JOIST SPACES ON GIRDER
NO.	NUMBER
N.S.	NON-SHRINK
NS	NEAR SIDE
NTS	NOT TO SCALE
o.c.	ON CENTER
O/S	OUTSIDE
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
P##	DRILLED PIER (##-DIA IN INCHES)
PF###	PAD FOOTING (###-SIZE IN FEET)
P/T	POST-TENSIONED
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RE:	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	STANDARD STEEL SHAPE (i.e. S10x35)
SCHED.	SCHEDULE
SECT	SECTION
SH	COLD-FORMED HAT SHAPE
SIM	SIMILAR
S.J.	STEEL JOIST (i.e. 12k1 S.J.)
SJ	(SAWN) CONTROL JOINT
SQ	SQUARE
SSE	COLD-FORMED SINGLE SLOPED EAVE STRUT
STIFF	STIFFENER
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TOC	TOP OF COLUMN
TOC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOP OF PIER
TYP	TYPICAL
UE	COLD-FORMED UNIVERSAL EAVE STRUT
UH	COLD-FORMED UNIVERSAL HAT SHAPE
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VERT	VERTICAL
vs	VS JOIST (i.e. 2.5vs1)
W	WIDE FLANGE SHAPE (i.e. W8x10)
WP	WORK POINT
w/	WITH
w/o	WITHOUT
WT	T SHAPE (i.e. WT8x13)
WWR	WELDED WIRE REINFORCING (i.e. WIRE MESH)
Z	COLD FORMED Z SHAPE

STRUCTURAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
2. IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING FLOOR ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC, WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
4. REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.
7. ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

CONCRETE NOTES

CONCRETE REINFORCEMENT

1. CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
3. PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:

SLAB-ON-GRADE BARS (BOTTOM)	3" CLEAR
BELOW GRADE (CAST AGAINST EARTH)	3" CLEAR
BELOW GRADE (FORMED EDGE)	2" CLEAR
WALLS	2" CLEAR

4. DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
5. IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
6. REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
7. REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.
8. ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
9. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
10. ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
11. WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE

1. CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
2. CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   A. FOOTINGS 3000 PSI
   B. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS 4000 PSI
3. **SEE CONCRETE MIX DESIGN TABLE**
4. PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-19.
5. MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
6. MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. **WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL.** ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.
7. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE

MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE

	NON-AIR ENTRAINED		AIR ENTRAINED		
28 DAY MIN. COMPRESSIVE STRENGTH	MIN. CEMENT CONTENT (LBS/YARD³)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD³)	MAXIMUM PERMISSIBLE W/C RATIO	DESIGN SLUMP w/ WRA (±1")
3000	470	0.53			6"
4000	564	0.44	611	0.40	6"

METALS NOTES

STRUCTURAL STEEL

1. STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:
   A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES (W) SHALL BE ASTM A992.
   B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 50 KSI
   C. ROUND HOLLOW STRUCTURAL SECTIONS (HSS) SHALL BE ASTM A500, GRADE C, Fy = 46 KSI
   D. ROUND STEEL PIPES (P, PX, PXX) SHALL BE ASTM A53, GRADE B, FY = 35 KSI.
   E. ALL OTHER STRUCTURAL STEEL (CHANNELS (C), ANGLES (L), PLATES (PL), ETC.) SHALL BE ASTM A36, UNLESS NOTED OTHERWISE.
3. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36.
4. STRUCTURAL BOLTS SHALL BE ASTM F3125 GRADE A325-N
5. POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF fy=45ksi, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-RE 500-SD" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-3G" SYSTEM (REF: ICC-ES ESR-4057), DEWALT "PURE 220+" SYSTEM (REF: ICC-ES ESR 5144), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
6. POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), DEWALT "SCREW BOLT+" (REF: ICC ESR-3889), (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
7. PROVIDE CONTINUOUS SPECIAL INSPECTION FOR ALL MECHANICAL AND ADHESIVE ANCHORS PER THE MOST CURRENT ICC-ES REPORT FOR THE ANCHOR BEING INSTALLED (RE: IBC TABLE 1705.1.3).
8. THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL POST-INSTALLED ANCHORS TO BE USED, PRIOR TO COMMENCEMENT OF THE WORK. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON-SITE AND MADE AVAILABLE TO THE ARCHITECT AND/OR ENGINEER OF RECORD, UPON REQUEST.
9. ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR VERTICALLY OVERHEAD ORIENTATION TO SUPPORT SUSTAINED TENSION LOADS SHALL BE DONE BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI/CRSI (ACI 318-11 D.9.2.2 / ACI 318-14 17.8.2.2 / ACI 318-19 17.2.3). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.
10. ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS (ACI 318-11 D.2.2 / ACI 316-14 17.1.2 / ACI 318-19 17.2.2).
11. THE REMOVAL AND RESETTING OF POST-INSTALLED ANCHORS IS PROHIBITED (ACI 318-19 17.1.3).
12. ALL WELDS SHALL BE E70XX, MINIMUM AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS, CERTIFIED WITHIN THE PREVIOUS TWELVE (12) MONTHS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE BUILDING AND COMPONENTS DUE TO FIRE HAZARDS FROM WELDING.

PRE-ENGINEERED METAL BUILDING SYSTEMS

1. METAL BUILDING MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
2. METAL BUILDING SHOP DRAWINGS WILL NOT BE REVIEWED IF THE LAYOUT DOES NOT FOLLOW THE LAYOUT PROPOSED IN THE CONTRACT DRAWINGS AND IF ANY DEVIATIONS FROM THE PROPOSED LAYOUT ARE NOT CLEARLY MARKED ON THE SHOP DRAWINGS OR APPROVED IN WRITING PRIOR TO SUBMITTAL.
3. METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING, AND SIZES AND SHAPES OF MEMBERS WITH OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS, CONNECTIONS AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.
4. METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES OR ROD BRACES AT THE LOCATIONS SHOWN ON THE PLANS. THE METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN. WHERE X-BRACES ARE USED, THE METAL BUILDING MANUFACTURER SHALL CLEARLY IDENTIFY TO THE ARCHITECT ALL INTERFERENCES WITH ARCHITECTURAL FEATURES. WHERE ARCHITECTURAL FEATURES (COLUMN SURROUNDS, CEILINGS, FURR DOWNS, ETC) ARE PROVIDED TO COVER OR SURROUND THE METAL BUILDING COMPONENTS (COLUMNS, FRAMES, ETC.), THE METAL BUILDING COMPONENTS SHALL BE SIZED TO STAY WITHIN THE LIMITS OF THE ARCHITECTURAL FEATURES UNLESS THE ARCHITECT IS NOTIFIED IN WRITING PRIOR TO SUBMISSION OF THE APPROVAL DRAWINGS AND APPROVAL IS GIVEN FOR AN EXCEPTION.
5. MAXIMUM PURLIN DEFLECTION SHALL NOT EXCEED SPAN/150.
6. FRAME DEFLECTION SHALL NOT EXCEED SPAN/180.
7. MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/90.
8. MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND OR GRAVITY LOADS SHALL NOT EXCEED WALL HEIGHT/60. SEISMIC DRIFT SHALL BE WITHIN THE LIMITS PRESCRIBED IN ASCE 7, TABLE 12.12-1 WITH ACTUAL DRIFT DETERMINED PER SECTION 12.8.6.
9. THE GENERAL CONTRACTOR AND METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR OVERALL BUILDING COORDINATION. ALL COORDINATION OF THE INTERFACE AND COMPATIBILITY BETWEEN THE METAL BUILDING AND THE ARCHITECTURAL FEATURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE METAL BUILDING MANUFACTURER.
10. DESIGN OF THE METAL BUILDING USING DEAD, LIVE, SEISMIC, WIND AND SNOW LOADS IN THE CODE REQUIRED COMBINATIONS SHALL BE PERFORMED BY THE METAL BUILDING MANUFACTURER.

EARTHWORK & FOUNDATION NOTES

EXCAVATION & FILL

1. ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
2. SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

SPREAD FOOTINGS

1. BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS REPRESENTATIVE.
2. ALL SPREAD FOOTINGS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL OR IN THE NATURAL SOILS WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF FOR CONTINUOUS AND 2500 PSF FOR INDIVIDUAL FOOTINGS. (REF: GEOTECHNICAL INVESTIGATION, JOB NO. GE024-127 DATED AUGUST 13, 2024 BY MTA ENGINEERS)
3. MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 1'-6" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

DESIGN LOADS:

DEAD LOADS:		WEIGHT OF THE STRUCTURE
ROOF LIVE LOAD:		20 PSF
FLOOR LIVE LOADS:		100 PSF
GROUND SNOW LOAD	Pg:	10 PSF
RAIN INTENSITY (100 YR, 15 MIN DURATION)		6.5 IN/HR
WIND SPEED FOR RISK CATEGORY II & EXPOSURE C		Vult: 110 MPH
BUILDING RISK CATEGORY		II
WIND EXPOSURE CATEGORY		C
INTERNAL PRESSURE COEFFICIENT	GCpi:	+/-0.18
COMP. & CLADDING WIND PRESSURE	Pnet30:	SEE ASCE 7-16, TABLE 30.6-2
SEISMIC IMPORTANCE FACTOR	Ie:	1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss:	0.388
	S1:	0.152
SITE CLASS		C
SPECTRAL RESPONSE COEFFICIENTS	Sds:	0.336
	Sd1:	0.152
SEISMIC DESIGN CATEGORY		C

BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-16, TABLE 12.2-1)	MOMENT RESISTING FRAME SYSTEM STEEL ORDINARY MOMENT FRAMES
DESIGN BASE SHEAR	V: 0.10W
SEISMIC RESPONSE COEFFICIENT	Cs: 0.10
RESPONSE MODIFICATION FACTOR	R: 3.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE METHOD (PER ASCE 7-16, TABLE 12.6-1 & SECT. 12.8)

SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ. ZONE: 1

CODES: 2021 ARKANSAS FIRE PREVENTION CODE
A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

THE FOUNDATIONS AND STRUCTURAL FRAMING HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2021 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

PRE-ENGINEERED METAL BUILDING DESIGN LOADS:

ROOF DEAD LOAD:	ACTUAL WEIGHT OF THE STRUCTURE
COLLATERAL LOAD:	HANGING EQUIPMENT, LIGHTS, CEILINGS, ETC. (5 PSF MINIMUM COLLATERAL DEAD LOAD. INCLUDE ACTUAL WEIGHT OF SUSPENDED EQUIPMENT.)
ROOF LIVE LOAD:	20 PSF (PURLINS & FRAMES).
SNOW LOAD:	(SEE DESIGN LOADS ABOVE)
WIND LOAD:	(SEE DESIGN LOADS ABOVE)
SEISMIC LOAD:	(SEE DESIGN LOADS ABOVE)
CODES:	2021 ARKANSAS FIRE PREVENTION CODE MBMA METAL BUILDING SYSTEMS MANUAL (LATEST EDITION) A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)

SPECIAL INSPECTION NOTES

1. SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENTS.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
3. THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
4. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
5. A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.

SOIL TESTING AND INSPECTIONS

1. A QUALIFIED TESTING LABORATORY SHALL TEST ALL CONTROLLED STRUCTURAL FILL. A MINIMUM OF TWO SOIL COMPACTION TESTS SHALL BE MADE FOR EACH LIFT.
2. AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY SHALL INSPECT AND TEST THE BEARING SOIL TO VERIFY THAT IT MEETS THE REQUIRED DESIGN CAPACITY.

CONCRETE CONSTRUCTION INSPECTIONS

1. INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.
2. VERIFY SIZE, TYPE, EMBEDMENT DEPTH, PROJECTION AND QUANTITY OF ANCHOR BOLTS.
3. CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. (EACH SAMPLE SHALL CONSIST OF 4 CYLINDERS MADE, HANDLED AND TESTED PER THE SPECIFICATIONS.)
4. EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.
5. THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.
6. PROVIDE CONTINUOUS INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS TO VERIFY THE INSTALLATION IS IN ACCORDANCE WITH STRUCTURAL DRAWINGS, EVALUATION SERVICE REPORT, AND MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION, EDGE DISTANCES, SPACING, DRILL BIT SIZE, HOLE DEPTH, HOLE CLEANING PROCEDURES, ANCHOR MATERIAL, EMBEDMENT, INSTALLATION PROCEDURES, INCLUDING CHECKING EXPIRATION DATE, PROPER MIXING OF ADHESIVE, AND INSTALLER TRAINING REQUIREMENTS.

STEEL CONSTRUCTION INSPECTION

1. STEEL FABRICATOR SHALL BE REGISTERED AND APPROVED IN ACCORDANCE WITH THE ARKANSAS FIRE PREVENTION CODE SECTION 1704.2.5.2 AND SHALL SUBMIT A CERTIFICATE OF COMPLIANCE - OR - THE FABRICATOR SHALL MAKE PROVISIONS FOR SHOP INSPECTION OF FABRICATION PROCEDURES & QUALITY CONTROL IN ACCORDANCE WITH SECTION 1704.2.5.1 BY AN INDEPENDENT INSPECTION AGENCY APPROVED BY THE OWNER, WITH RELATED COSTS INCLUDED IN THE BID.
2. PERIODICALLY VERIFY THAT THE PROPER MATERIALS FOR HIGH-STRENGTH BOLTS, STRUCTURAL STEEL AND WELD FILLER MATERIALS ARE BEING USED.
3. PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES OR DIRECT TENSION INDICATOR BOLTS.
4. WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.
5. PERIODIC INSPECTION OF WELDING IN PROGRESS AND VISUAL INSPECTION OF ALL FIELD WELDS SHALL BE MADE FOR ALL SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE AND FOR STEEL DECK WELDING.

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NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

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CERTIFICATE OF AUTHORIZATION ARKANSAS- ENGINEER
ENGINEERING CONSULTANTS, INC.
No. 26

Engineering Consultants, Inc.
Structural Engineers
401 West Capitol Avenue, Suite 305
Little Rock, Arkansas 72201-3401
Phone No: (501) 376-3752
JOB# 24-060

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11256
BRIAN D. MILLER
11/01/2024

CONSTRUCTION SET

GENERAL NOTES :SHEET TITLE

:REVISIONS

NO.	DESCRIPTION	DATE

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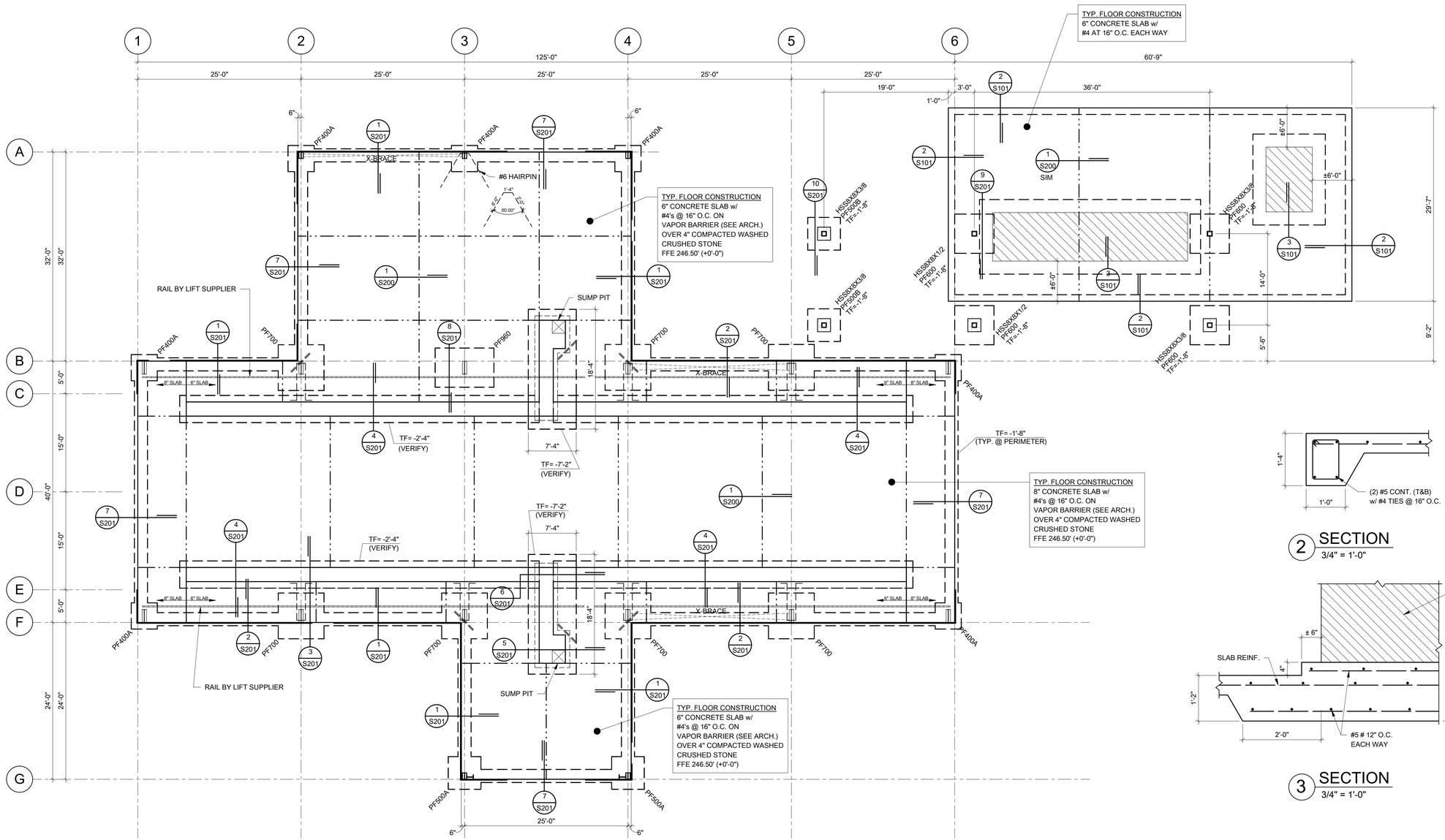
S100



1 FOUNDATION PLAN
1/8" = 1'-0"

TYP. FLOOR CONSTRUCTION
6" CONCRETE SLAB w/
#4 AT 16" O.C. EACH WAY

2 SECTION
3/4" = 1'-0"

3 SECTION
3/4" = 1'-0"

PAD FOOTING SCHEDULE

TYPE	WIDTH	LENGTH	THICKNESS	REINFORCEMENT
PF400A	4'-0"	4'-0"	1'-0"	(5) #5 EACH WAY (BOT.)
PF500A	5'-0"	5'-0"	1'-0"	(6) #5 EACH WAY (BOT.)
PF500B	5'-0"	5'-0"	1'-4"	(6) #5 EACH WAY (TOP&BOT.)
PF600	6'-0"	6'-0"	1'-4"	(7) #5 EACH WAY (TOP&BOT.)
PF700	7'-0"	7'-0"	1'-0"	(8) #6 EACH WAY (BOT.)
PF960	9'-0"	6'-0"	1'-0"	(9) #6 EACH WAY (BOT.)

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FOUNDATION PLAN

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S101

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11256 BRIAN D. MILLER 11/01/2024

JOB# 24-060

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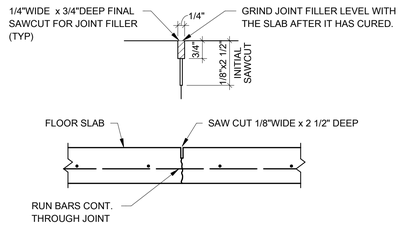
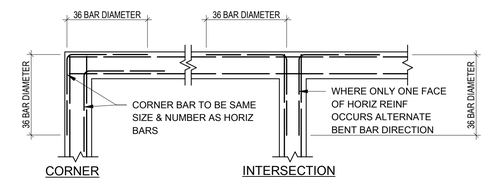


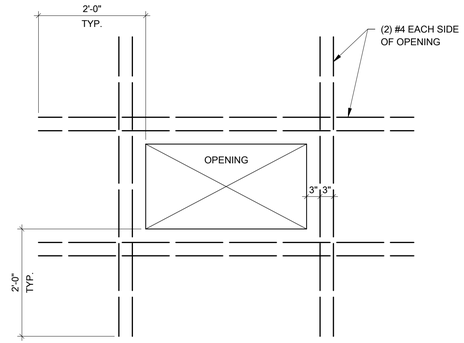
NOTE:
SLAB JOINT FILLER MATERIAL SHALL BE SEMI-RIGID, SELF-LEVELING, LOW TENSILE, LOW ADHESION, NON-BRITTLE EPOXY (SHORE A80 HARDNESS). FILL JOINT FULL DEPTH WITH MULTIPLE PASSES. TOP OF FILLER SHALL BE FLUSH WITH TOP OF SLAB OR PREFERABLY SLIGHTLY CROWNED. ALLOW SLAB TO CURE AS LONG AS PRACTICAL BEFORE INSTALLING JOINT FILLER TO ALLOW FOR SLAB SHRINKAGE. INSTALL FILLER PER MANUFACTURER'S RECOMMENDATIONS.

1 CONTROL JOINT DETAIL
3/4" = 1'-0"

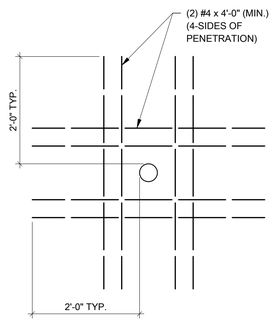


TYPICAL FOR:
CONC WALLS
CONC FOOTINGS
THICKENED SLABS
BOND BEAMS
CONC TURNDOWNS

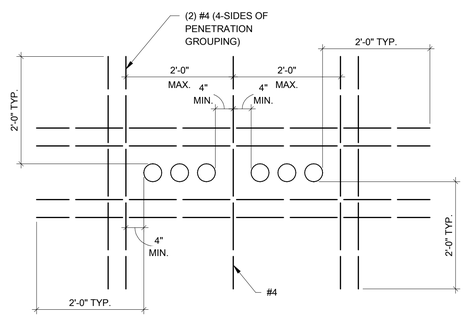
2 TYP. CORNER BAR DETAIL
3/4" = 1'-0"



TYP. @ OPENINGS & PIPING LARGER THAN 6"DIA. OR 6" SQ. & GROUPS OF (2) PIPES

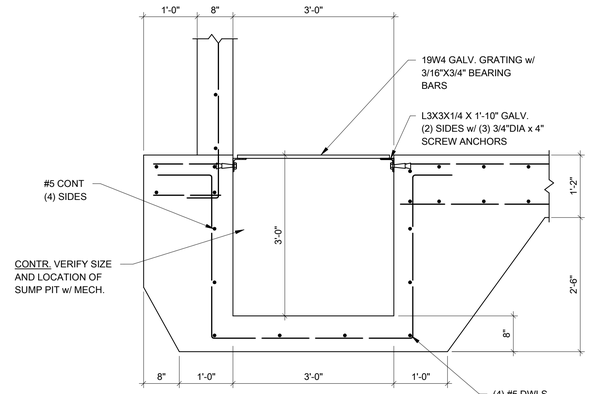


APPLIES AT PLUMBING PENETRATIONS



APPLIES @ GROUPS OF PIPE PENETRATIONS

5 TYP. REINF. @ SLAB OPENINGS & PIPE PENETRATIONS
3/4" = 1'-0"



6 SUMP PIT DETAIL
3/4" = 1'-0"

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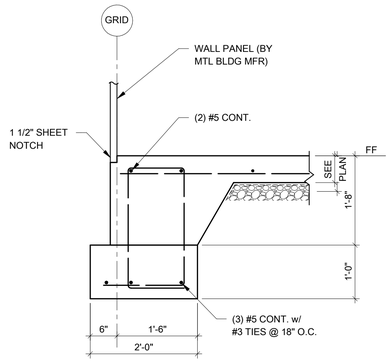
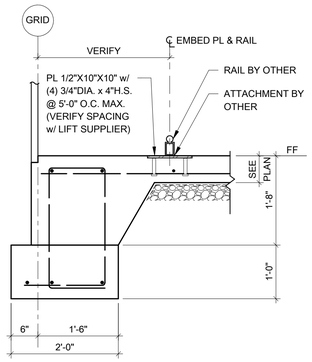
STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 11256 BRIAN D. MILLER 11/01/2024

JOB# 24-060

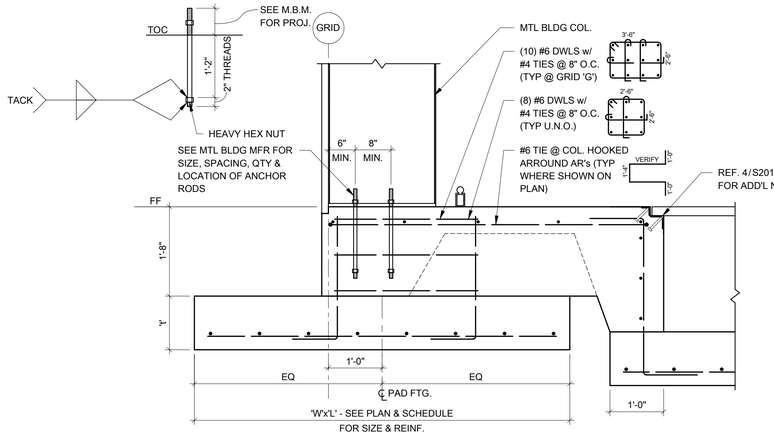


1 SECTION
3/4" = 1'-0"

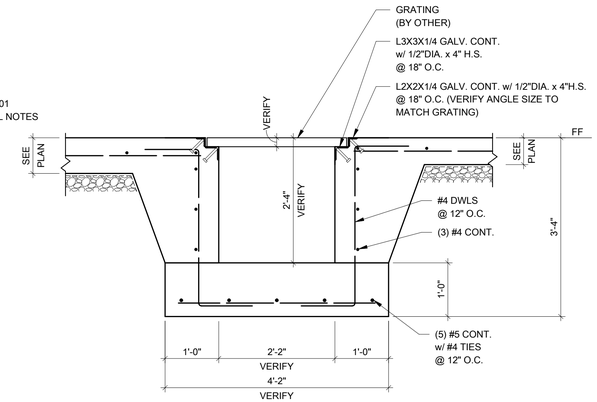


REF. 1/S201
FOR ADD'L NOTES

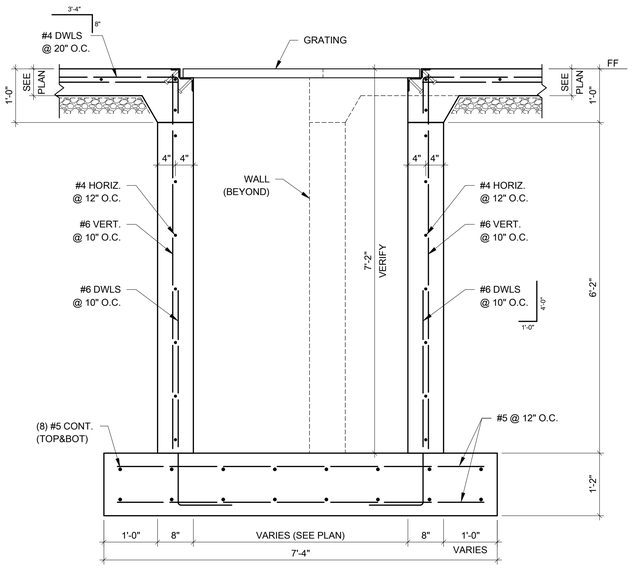
2 SECTION
3/4" = 1'-0"



3 SECTION
3/4" = 1'-0"



4 SECTION
3/4" = 1'-0"



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FOR ADD'L NOTES

5 SECTION
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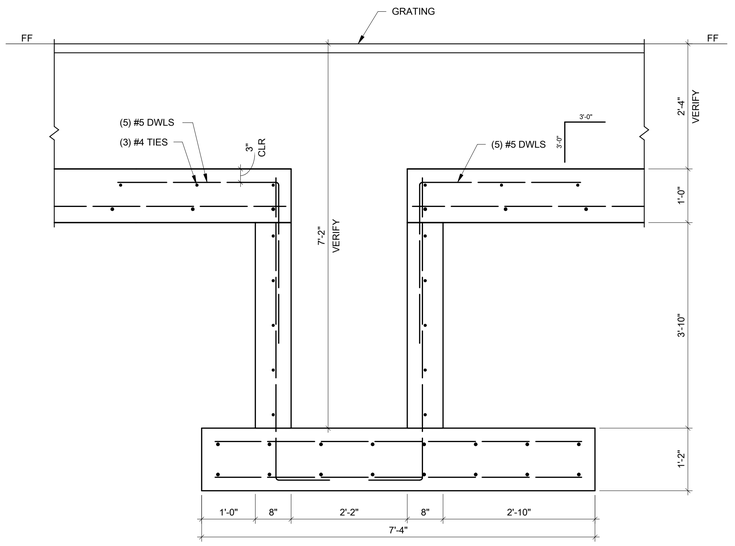
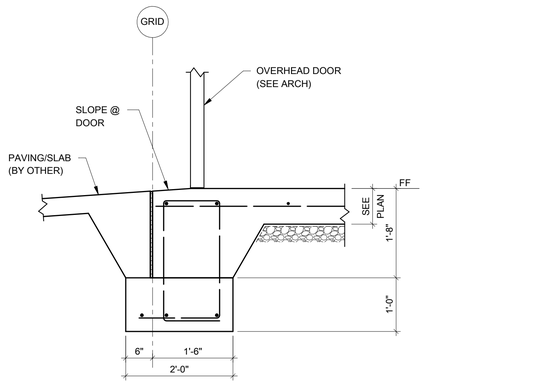


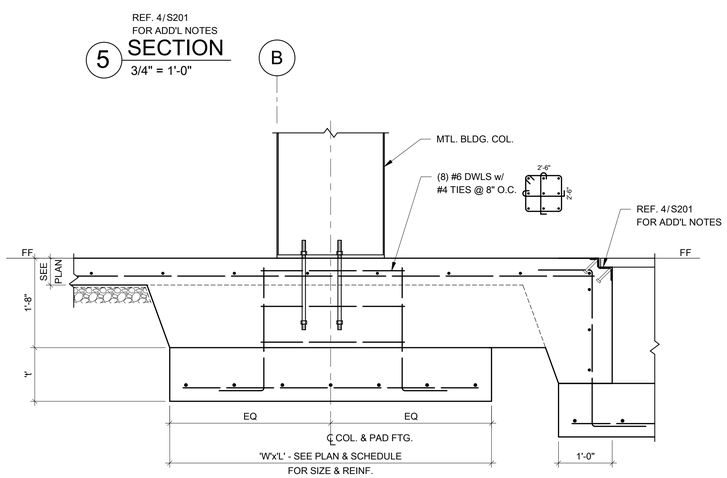
REF. 5/S201
FOR ADD'L NOTES

6 SECTION
3/4" = 1'-0"

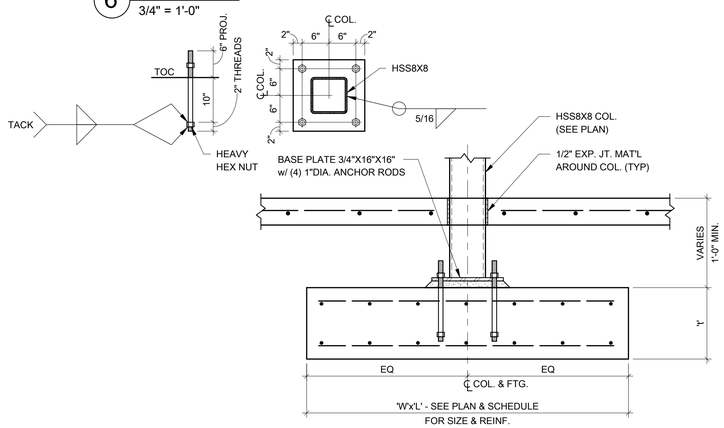


REF. 1/S201
FOR ADD'L NOTES

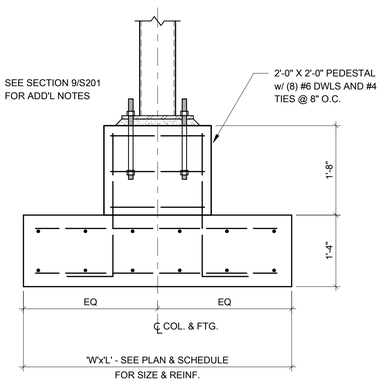
7 SECTION
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

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S201

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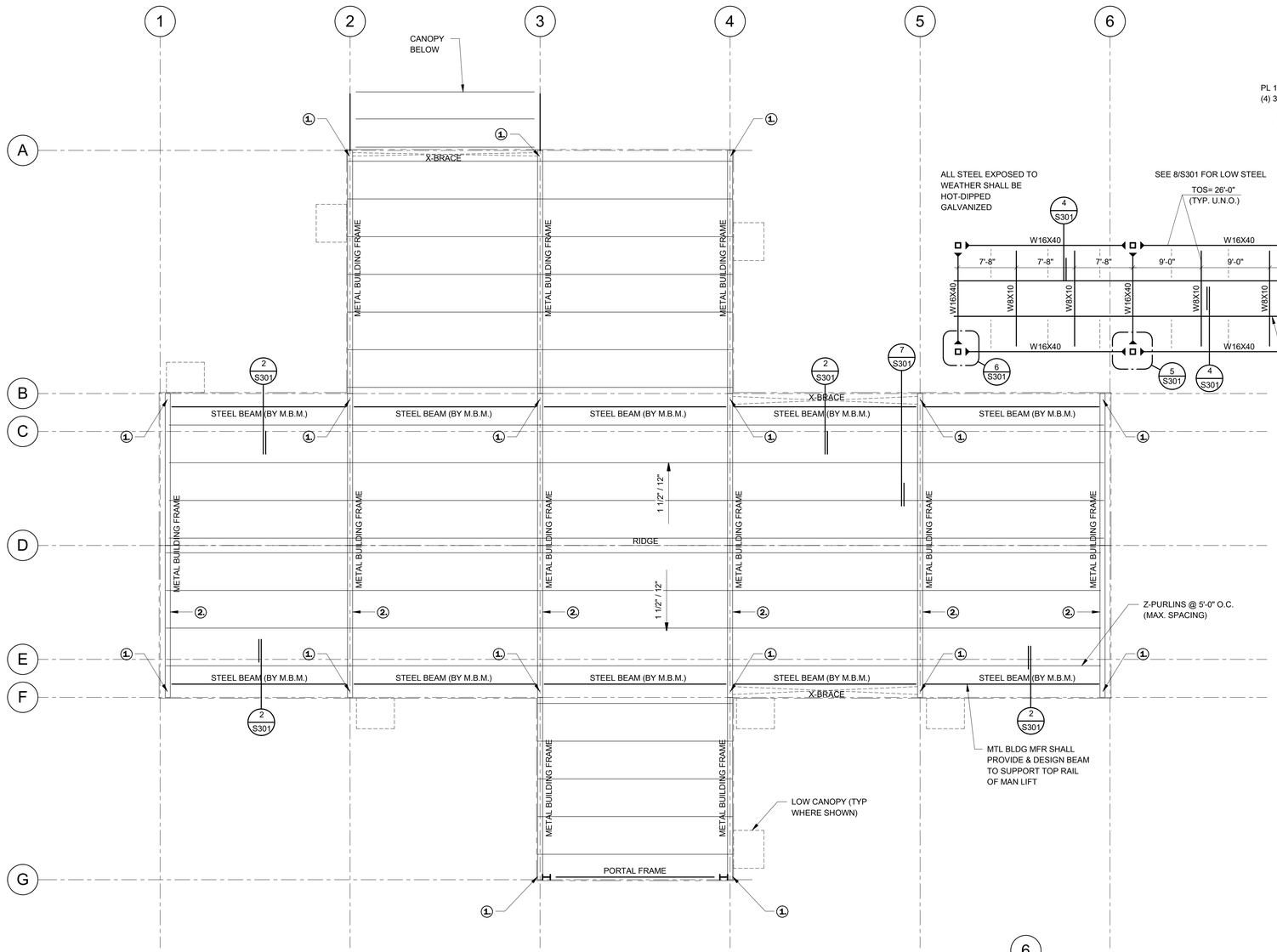
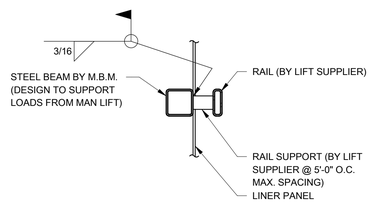
No. 11256
BRIAN D. MILLER
11/01/2024



1 ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN NOTES:

1. COLUMN DEPTH SHALL BE 24" MAX.
2. SEE SECTION 7/S301 FOR PROFILE OF BUILDING FRAME.



2 SECTION
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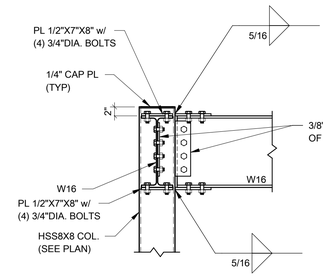

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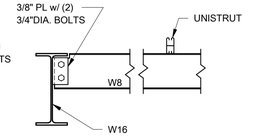
3/4" = 1'-0"



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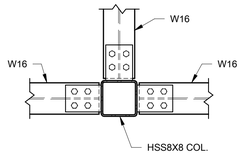
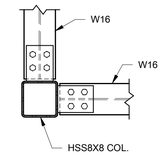
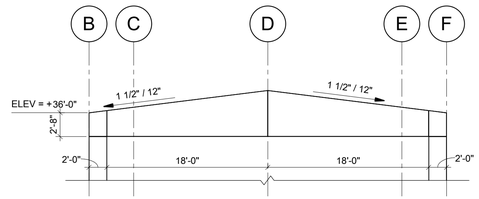
3/4" = 1'-0"



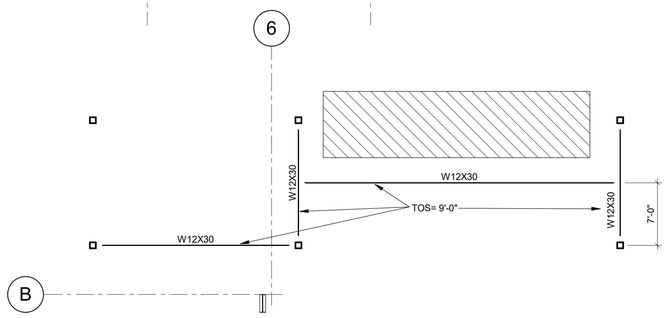
5 SECTION
3/4" = 1'-0"



6 SECTION
3/4" = 1'-0"



7 SECTION
1/8" = 1'-0"



8 LOW FRAMING PLAN
1/8" = 1'-0"

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ROOF FRAMING PLAN

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Phone No: (501) 376-3752
STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11256
BRIAN D. MILLER
11/01/2024

J0B# 24-060

GENERAL NOTES:

1. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
3. REFER TO GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF PROJECT INCLUDING THE EQUIPMENT AND INSTALLATION OF THE MECHANICAL WORK.
4. CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
11. EXACT LOCATIONS OF ALL EQUIPMENT, ROOF CURBS, DUCTS, DIFFUSERS, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
12. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
13. COORDINATE PLACEMENT OF ALL THERMOSTATS, ROOF MOUNTED EQUIPMENT, ETC. WITH ARCHITECTURAL AND STRUCTURAL TRADES.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
15. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. DO NOT SUBMIT SHOP DRAWINGS FOR ANY EQUIPMENT WHICH MAY BE COORDINATED WITH OWNER FURNISHED ITEMS UNTIL THE APPROVED DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. VERIFY THE APPROVED EQUIPMENT HAS THE SAME ROUGH-IN AND FINAL CONNECTION REQUIREMENTS AND DESIGN CRITERIA AS THE DOCUMENTS. NOTIFY ENGINEER OF ANY CHANGES, INCOMPATIBILITY, OR UNUSUAL CONDITIONS IMMEDIATELY. SEE SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
16. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS THROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
17. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
18. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS.
19. SPECIAL CARE SHALL BE TAKEN ON THE ROOF TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
20. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.

CONTROL SEQUENCES:

COMPRESSOR ROOM – CONTROL SEQUENCES

- PROVIDE STANDALONE PREPROGRAMMED DDC CONTROLLER FOR SEQUENCE BELOW.
  - INTAKE LOUVER (L-1)
    - THE DDC CONTROLLER SHALL OPEN LOUVER L-1'S DAMPER BASED ON A RUN STATUS FROM EITHER COMPRESSOR AC-1 OR AC-2. THE DAMPER SHALL BE CLOSED WHEN NEITHER AIR COMPRESSOR IS IN OPERATION.
  - SPACE TEMPERATURE:
    - THE DDC CONTROLLER SHALL AVERAGE SPACE TEMPERATURE AT SEVERAL LOCATIONS WITHIN THE COMPRESSOR ROOM, INCLUDING IN THE VACINITY OF THE ELECTRICAL TRANSFORMER. PROVIDE A DDC DIGITAL THERMOSTAT FOR ADJUSTMENTS AS WELL AS PLATE SENSORS FOR SPACE AVERAGING.
    - COOLING MODE:
      - WHEN THE SPACE TEMPERATURE EXCEEDS 85F (ADJUSTABLE), THE DDC CONTROLLER SHALL OPEN LOUVER L-1'S DAMPER (IF NOT ALREADY OPENED FROM AIR COMPRESSOR OPERATION), OPEN LOUVER L-2'S DAMPER, START EXHAUST FAN EF-1 AND OPEN ITS BACKDRAFT DAMPER. WHEN SPACE TEMPERATURE DROPS BELOW 80F (ADJUSTABLE), EF-1 SHALL BE DE-ENERGIZED, ITS BACKDRAFT DAMPER CLOSED AND LOUVER L-2'S DAMPER SHALL BE CLOSED.
    - HEATING MODE:
      - WHEN THE SPACE TEMPERATURE DROPS BELOW 50F, THE DDC CONTROLLER SHALL MODULATE THE BYPASS DAMPER FOR EACH AIR COMPRESSOR EXHAUST DUCT OPEN AND MODULATE THE EXHAUST DAMPER CLOSED AS REQUIRED TO DIVERT HEATED EXHAUST AIR FROM THE COMPRESSORS INTO THE ROOM. IF THE ROOM SPACE TEMPERATURE DROPS BELOW 40F, THE DDC CONTROLLER SHALL ENERGIZE UNIT HEATER EUH-1.
      - WHEN THE SPACE TEMPERATURE RISES ABOVE 60F (ADJUSTABLE), EUH-1 SHALL BE DE-ENERGIZED, THE BYPASS DAMPER FOR EACH AIR COMPRESSOR EXHAUST DUCT SHALL CLOSE AND THE ASSOCIATED EXHAUST DAMPER SHALL FULLY OPEN.

CONTROL NOTES:

REFER TO GENERAL NOTES ON DRAWING.

1. ALL CONTROL DEVICES SHALL BE BY ONE MANUFACTURER. ALL CONTROL SET POINTS SHALL BE ADJUSTABLE. THERMOSTATS AND WIRING FOR FANS SHALL BE INCLUDED WITH CONTROLS.
2. THE CONTROL SYSTEM SHALL BE SUITABLE FOR THE LOCATIONS SHOWN ON THE PLANS.
3. PROVIDE ALL CONTROL COMPONENTS AS DESCRIBED IN CONTROL SEQUENCES INCLUDING CONTROL PANEL AND TEMPERATURE SENSORS.
4. SEE THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. ALL THERMOSTATS, SENSORS, AND OTHER EXPOSED CONTROL DEVICE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER AND ARCHITECT BEFORE ROUGHING IN.
6. ALL CONTROLS SHALL BE TESTED AND CALIBRATED BEFORE TESTING AND BALANCING IS PERFORMED.
7. PROVIDE LAMINATED TAGS AT ALL CONTROL DEVICES INDICATING EQUIPMENT BEING CONTROLLED.
8. INTERLOCK CONTROLS WITH THE FIRE ALARM SYSTEM. COORDINATE WITH THE FIRE ALARM SYSTEM CONTRACTOR FOR INTERFACE REQUIREMENTS OF THE SYSTEMS.
9. PROVIDE AUXILIARY CONTACTORS AS REQUIRED FOR OPERATIONS OF CONTROL SEQUENCES.
10. ALL WIRING SHALL BE IN CONDUIT. REFER TO THE SPECIFICATIONS.

HVAC NOTES:

REFER TO GENERAL NOTES ON DRAWING FOR ADDITIONAL REQUIREMENTS.

1. SEE STRUCTURAL PLANS FOR EXACT DIMENSIONS AND DETAILS OF THE BUILDING.
2. ALL ROOF MOUNTED EQUIPMENT SHALL BE PROVIDED WITH STANDARD MANUFACTURER'S FABRICATED CURBS WHICH FACILITATE LEVEL MOUNTING OF THE EQUIPMENT (I.E. FACTORY FABRICATED TO COMPENSATE FOR ROOF SLOPE). OBTAIN ROOF SLOPES AND DIRECTION-OF-SLOPE FROM ARCHITECTURAL AND/OR STRUCTURAL PLANS. ALL ROOF CURBS SHALL BE A MINIMUM OF 8" HIGH. SHIMMING OF CURBS IS NOT ACCEPTABLE. UNLESS OTHERWISE SHOWN, ALL SERVICES TO AND FROM ROOF MOUNTED EQUIPMENT SHALL BE INSIDE PERIMETER OF CURB. ALL EQUIPMENT SHALL BE SET PLUMB AND LEVEL.
3. MAINTAIN MINIMUM CLEAR DISTANCE OF 10' - 0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT (FANS, RTU'S, CONDENSERS, ETC.).
4. MAINTAIN A MINIMUM OF 15' - 0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, FLUES, ETC. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
5. SEAL ALL ROOF AND WALL PENETRATIONS. FLASH AND COUNTERFLASH ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS EIGHT (8) INCHES ABOVE ROOF.
6. ALL HVAC WORK TO BE PER SMACNA AND ALL APPLICABLE CODES.
7. PROVIDE FLEXIBLE CONNECTIONS AND TRANSITIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL ROOF TOP UNITS, EXHAUST FANS, AIR BOXES, ETC. WHERE EQUIPMENT HAS ROTATING PARTS (MOTORS, ETC.).
8. BALANCE AIR SYSTEM TO PROVIDE INDICATED AIR FLOWS. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE OF AIR SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.
9. MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
   A) ALL STARTERS: FURNISHED BY MC, INSTALLED BY EC.
   B) ELECTRIC DAMPER ACTUATORS: FURNISHED BY MC, INSTALLED BY MC.
   C) DISCONNECTS:
      WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
      WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
10. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH ARCHITECT AND ENGINEER. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.

MECHANICAL LEGEND

ABBREVIATION OR SYMBOL	DESCRIPTION
AHU	AIR HANDLING UNIT
A.F.F.	ABOVE FINISHED FLOOR
B	BOILER
BHP	BRAKE HORSE POWER
BMS	BUILDING MANAGEMENT SYSTEM
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CV	CONSTANT VOLUME
DB	DRY BULB TEMPERATURE
DP	DIFFERENTIAL PRESSURE
EA	EXHAUST AIR
EAT	ENTERING AIR TEMP OF THE COIL
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWT	ENTERING WATER TEMPERATURE
FC	FAN COIL UNIT
FO	FLAT OVAL
FPM	FEET PER MINUTE (VELOCITY)
GH	GRAVITY HOOD
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
KW	KILOWATT
L	LOUVER
LAT	LEAVING AIR TEMPERATURE OF THE COIL
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX.	MAXIMUM
MBH	1000 BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MIN.	MINIMUM
MHP	MOTOR HORSE POWER
MOCP	MAXIMUM OVER CURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NK.	NECK
NTS	NOT TO SCALE
OBD	OPPOSED BLADE DAMPER
OFCI	OWNER FURNISHED/CONTRACTOR INSTALLED
OAU	OUTSIDE AIR UNIT
OSA	OUTSIDE AIR
P	PUMP
PBD	PARALLEL BLADE DAMPER
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RF	RELIEF FAN
RH	RELATIVE HUMIDITY
RHP	RADIANT HEATING PANEL
RPM	REVOLUTION PER MINUTE
SA	SUPPLY AIR
SC	SENSIBLE CAPACITY
SP	STATIC PRESSURE
SPEC.	SPECIFICATION
TC	TOTAL CAPACITY
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TYP.	TYPICAL
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE SPEED (FREQUENCY) DRIVE
WB	WET BULB TEMPERATURE
WG	WATER GAUGE
'	FEET
"	INCHES
Ø	ROUND DUCT
X / X (DETAIL/SECTION NUMBER; SHEET NUMBER)	DETAIL/SECTION DESIGNATION

ABBREVIATION OR SYMBOL	DESCRIPTION
	NEW EQUIPMENT
MARK FC-101 TYPE A FAN COIL TYPE	FAN COIL UNIT DESIGNATION
CS	CEILING SUPPLY
CR	CEILING RETURN
CE	CEILING EXHAUST
LSD	LINEAR SLOT DIFFUSER
LSR	LINEAR SLOT RETURN
TR	TRANSFER GRILLE
LBD	LINEAR BAR DIFFUSER
LBR	LINEAR BAR RETURN
SWR	SIDE WALL RETURN
SWT	SIDE WALL TRANSFER
MARK CS1 150 AIR FLOW (CFM)	AIR DEVICE DESIGNATION
	CEILING SUPPLY DIFFUSER
	CEILING RETURN/EXHAUST GRILLE
	LINEAR SLOT DIFFUSER
	GRILLE OR REGISTER ON BOTTOM OF DUCTWORK
	SIDEWALL SUPPLY/RETURN
18x24	DUCT SIZE (FOR DOUBLE LINE DUCT)
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	RECTANGULAR/ROUND TRANSITION (DOUBLE LINE DUCT)
	FLEXIBLE DUCT CONNECTION
F, M, C	(1) FIRE DAMPER, (2) COMBINATION FIRE / SMOKE DAMPER, (3) MOTORIZED DAMPER
O, P, SD	(1) OPPOSED BLADE DAMPER, (2) PARALLEL BLADE DAMPER, (3) IN DUCT SMOKE DETECTOR
T, C	THERMOSTAT OR CO2 SENSOR
SW, SW	SWITCH OR SWITCH WITH PILOT LIGHT
2	KEYED NOTE

ABBREVIATION OR SYMBOL	DESCRIPTION
CD	CONDENSATE DRAIN
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
RS/RL	REFRIGERANT SUCTION / LIQUID
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	GATE VALVE
	GLOBE VALVE
	NEEDLE VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	RELIEF VALVE
S	SOLENOID VALVE
	VALVE IN RISER
	PIPE UNION
	AUTO AIR VENT
	MANUAL AIR VENT
	ECCENTRIC TRANSITION
	CONCENTRIC TRANSITION
	PRESSURE GAUGE
	STEAM TRAP
	STRAINER (Y-TYPE)
	TEMPERATURE & PRESSURE PLUG
	THERMOMETER
	DIRECTION OF FLOW
	DIRECTION OF FLOW
	FLEXIBLE PIPE CONNECTION
	FLEXIBLE PIPE CONNECTION
	FLEXIBLE PIPE CONNECTION
	PIPE DOWN
	TEE DOWN
	PIPE UP
	TEE UP
	BRANCH - BOTTOM OF PIPE
	BRANCH - TOP OF PIPE
	ELBOW
	TEE
	45° ELBOW
	CAP
	END OF LINE CLEANOUT

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

MECHANICAL DRAWING INDEX

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NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

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CONSTRUCTION DOCUMENTS

:SHEET TITLE
MECHANICAL NOTES, LEGENDS, & INDEX

:REVISIONS

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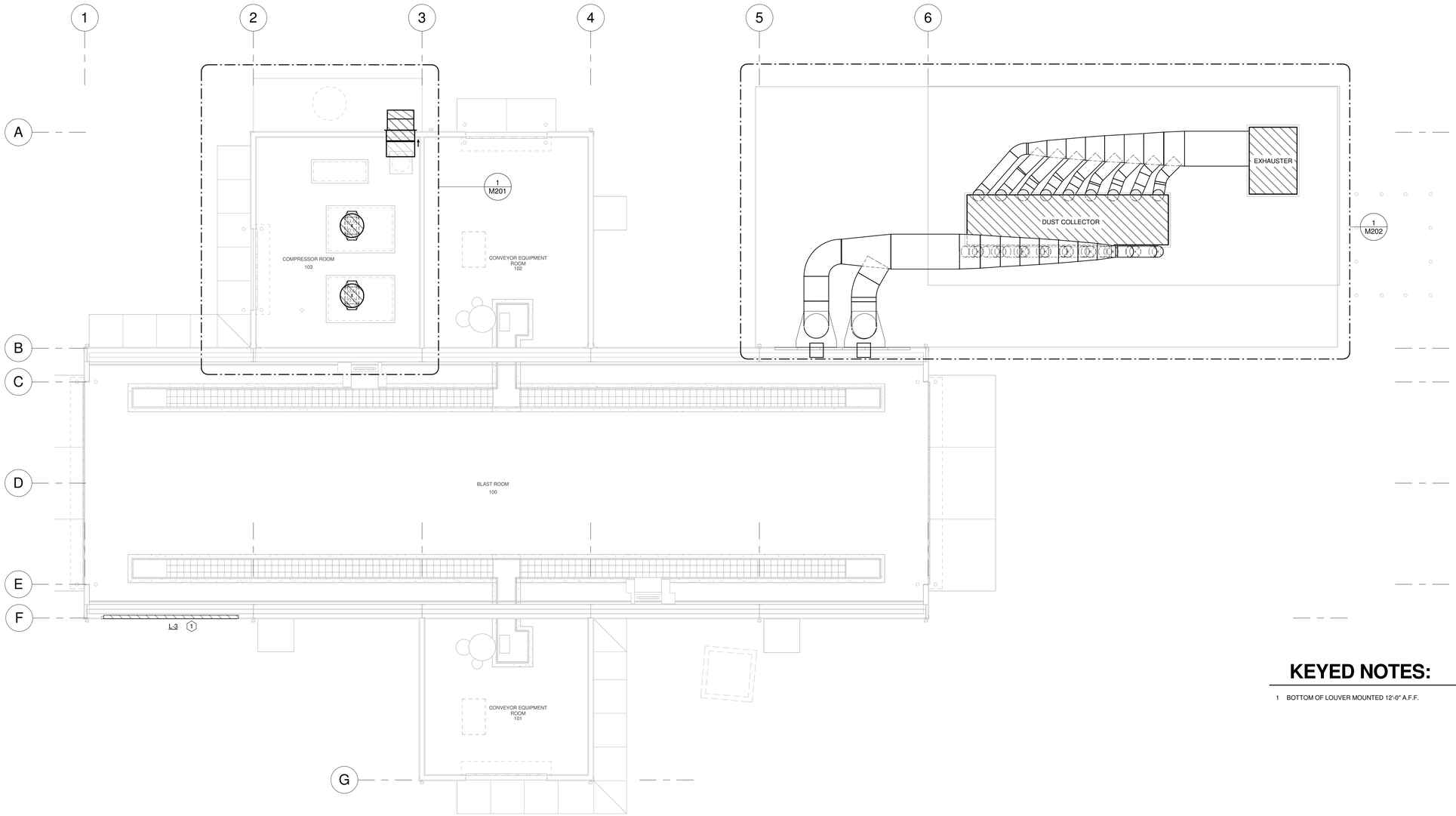
:SHEET NUMBER
M100



1 M200 **MECHANICAL FLOOR PLAN**

1/8" = 1'-0"

N

KEYED NOTES:

1 BOTTOM OF LOUVER MOUNTED 12'-0" A.F.F.

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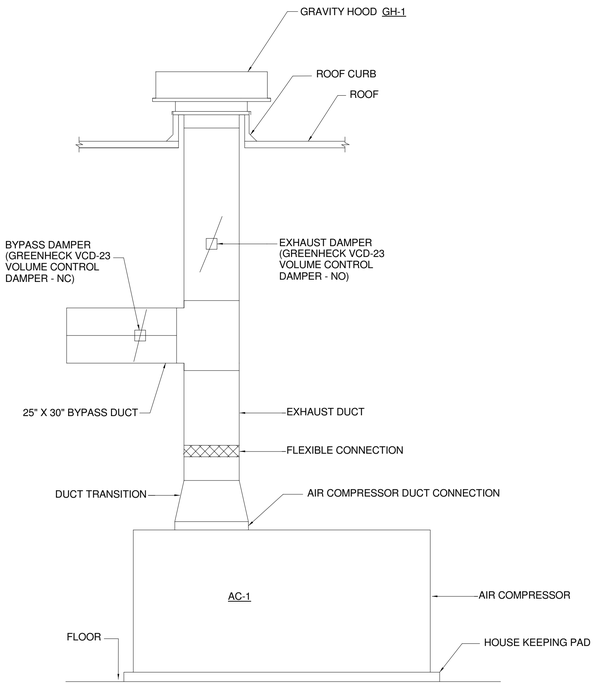
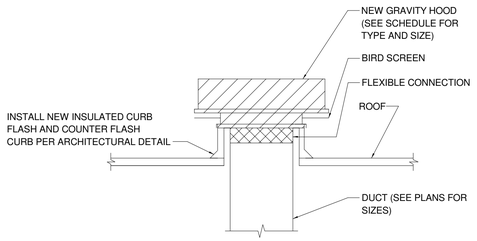


AIR COMPRESSOR DETAIL

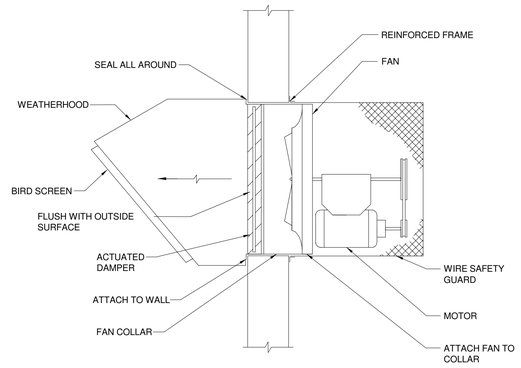
2 / M201 — 1/8" = 1'-0"

AC-2 SIMILAR



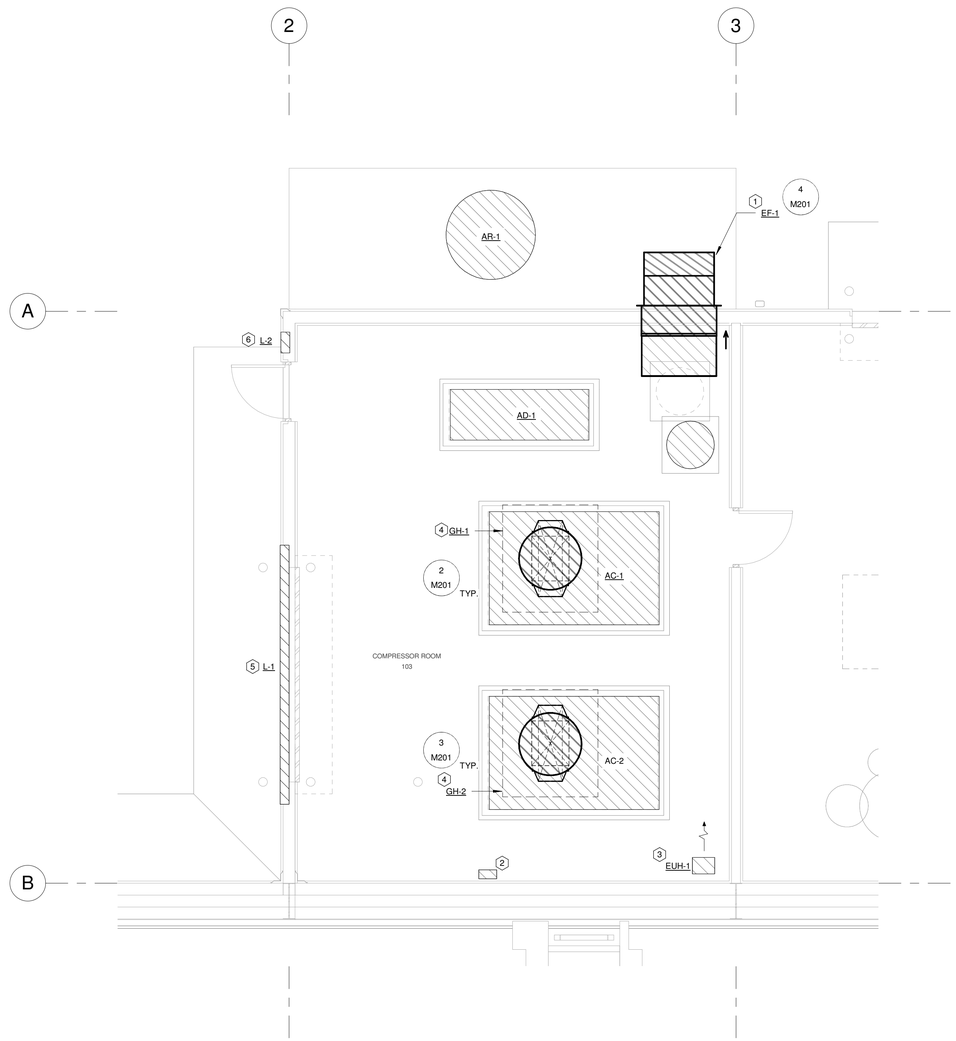
TYPICAL GRAVITY HOOD

3 / M201 — 1/8" = 1'-0"



WALL EXHAUST FAN

4 / M201 — 1/8" = 1'-0"



ENLARGED MECHANICAL FLOOR PLAN

1 / M201 — 1/4" = 1'-0"

0 2 4 8 N

KEYED NOTES:

1. BOTTOM OF EXAUST FAN MOUNTED 10'-0" A.F.F.
2. CONTROL PANEL. MOUNT 54" A.F.F.
3. BOTTOM OF UNIT HEATER MOUNTED 10'-0" A.F.F.
4. EXTEND 25" X 30" EXHAUST DUCT FROM AIR COMPRESSOR UP TO ROOF MOUNTED GRAVITY HOOD. SUPPORT DUCTWORK FROM ROOF STRUCTURE.
5. LOUVER MOUNTED ABOVE OH DOOR. BOTTOM OF LOUVER 16'-0" A.F.F. COORDINATE EXACT LOCATION WITH DOOR.
6. BOTTOM OF LOUVER MOUNTED 18" A.F.F.

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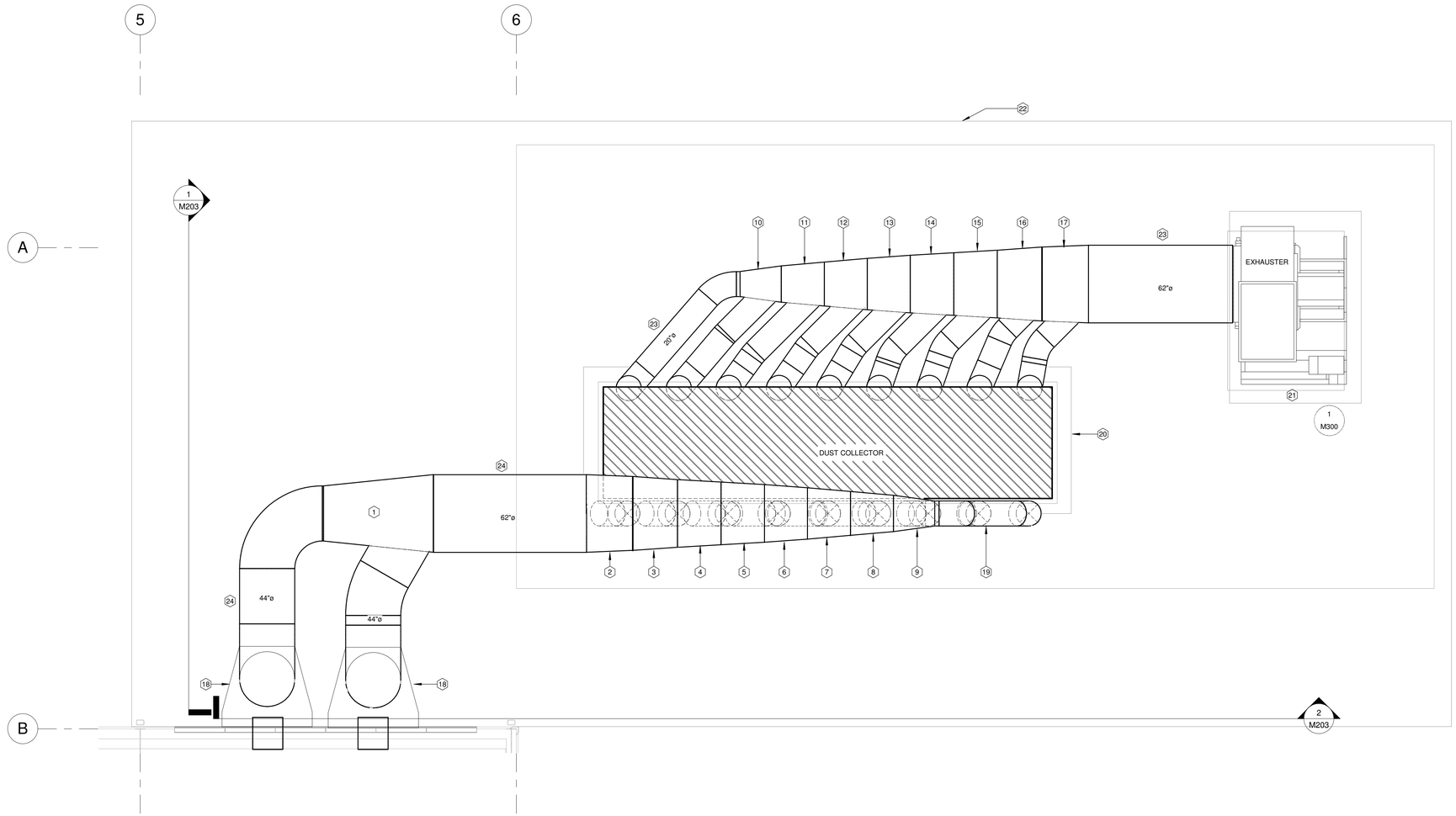

KEYED NOTES:

1. FITTING 'C', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
2. FITTING 'D', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
3. FITTING 'E', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
4. FITTING 'F', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
5. FITTING 'G', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
6. FITTING 'H', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
7. FITTING 'I', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
8. FITTING 'J', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
9. FITTING 'K', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
10. FITTING 'N', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
11. FITTING 'O', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
12. FITTING 'P', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
13. FITTING 'Q', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
14. FITTING 'R', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
15. FITTING 'S', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
16. FITTING 'T', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
17. FITTING 'U', PER DETAIL 1/M301. DUCT GAUGE PER TABLE ON SHEET M202.
18. BLAST ROOM OUTLET PLENUM PER DETAIL 10/M301. CONSTRUCTED OF 14 GAUGE SHEET METAL. ALLIGN PLENUM WITH SLOT IN BLAST ROOM'S EXTERIOR WALL. BOTTOM OF PLENUM'S BACK SLOT TO BE MOUNTED APPROXIMATELY 10'-8" A.F.F. COORDINATE EXACT LOCATION WITH ARCHITECT.
19. 20" DIA RADIUSED ELBOW.
20. CDF-72 DUST COLLECTOR. MOUNTED ON CONCRETE PAD PER STRUCTURAL.
21. DUST COLLECTOR EXHAUSTER. MOUNTED ON CONCRETE HOUSEKEEPING PAD PER STRUCTURAL.
22. CONCRETE PAD SEE ARCHITECTURAL.
23. DUCTWORK BETWEEN DUST COLLECTOR AND EXHAUSTER TO BE SUPPORTED FROM CONCRETE PAD PER DETAIL 2/M300.
24. DUCTWORK FROM BLAST ROOM 100 TO DUST COLLECTOR TO BE SUPPORTED FROM STRUCTURAL FRAMEWORK PER DETAIL 3/M300.

DUCTING GAUGE (MIN.)

DUCT DIAMETER	BLAST ROOM TO D/C	D/C TO EXH.
TO 8" DIA	20 GAUGE	22 GAUGE
9" TO 18" DIA	18 GAUGE	20 GAUGE
19" TO 30" DIA	16 GAUGE	18 GAUGE
OVER 30" DIA	14 GAUGE	16 GAUGE

1 M202 ENLARGED MECHANICAL PLAN

1/4" = 1'-0"

0 2 4 8 N

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M202

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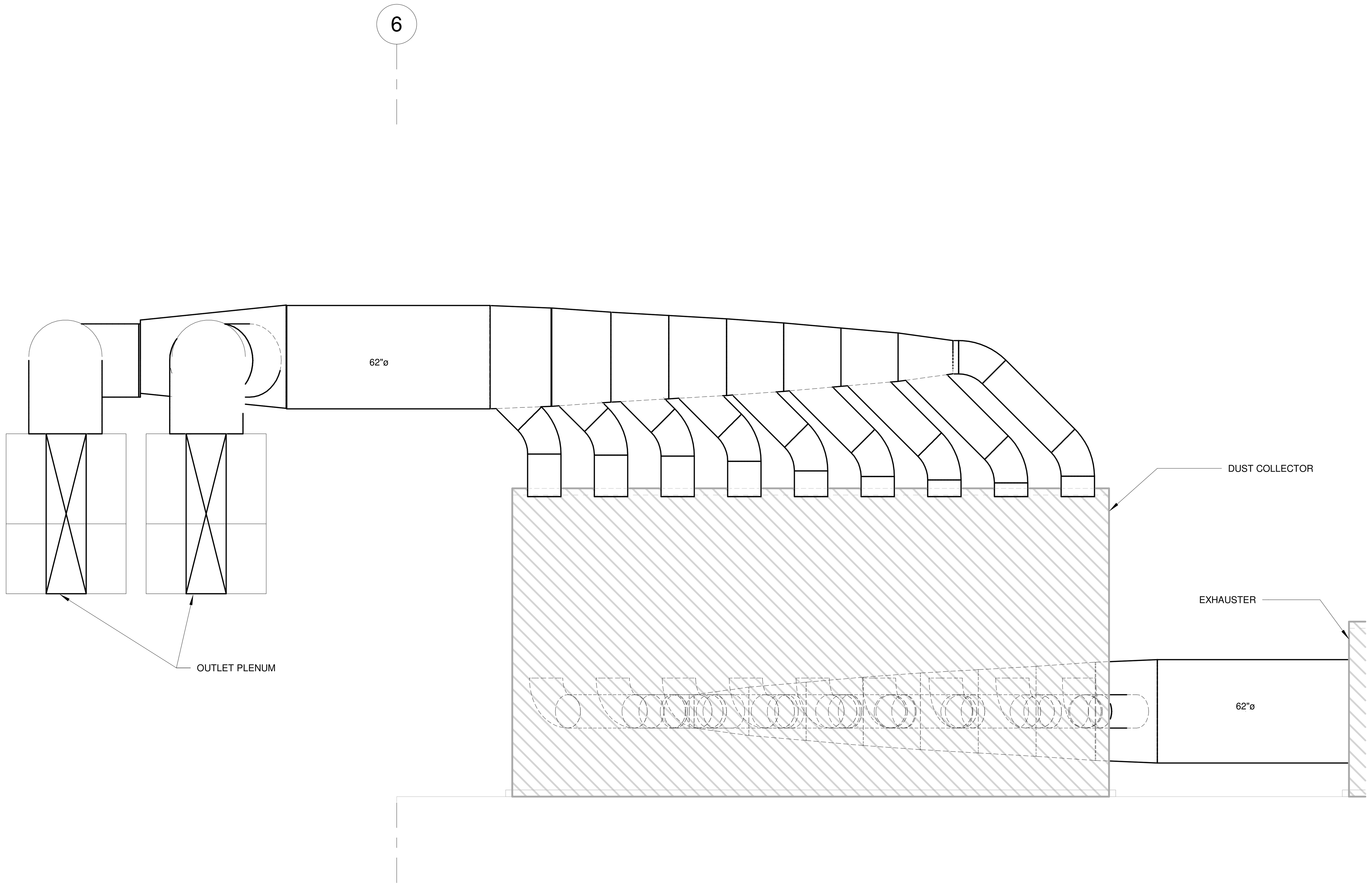
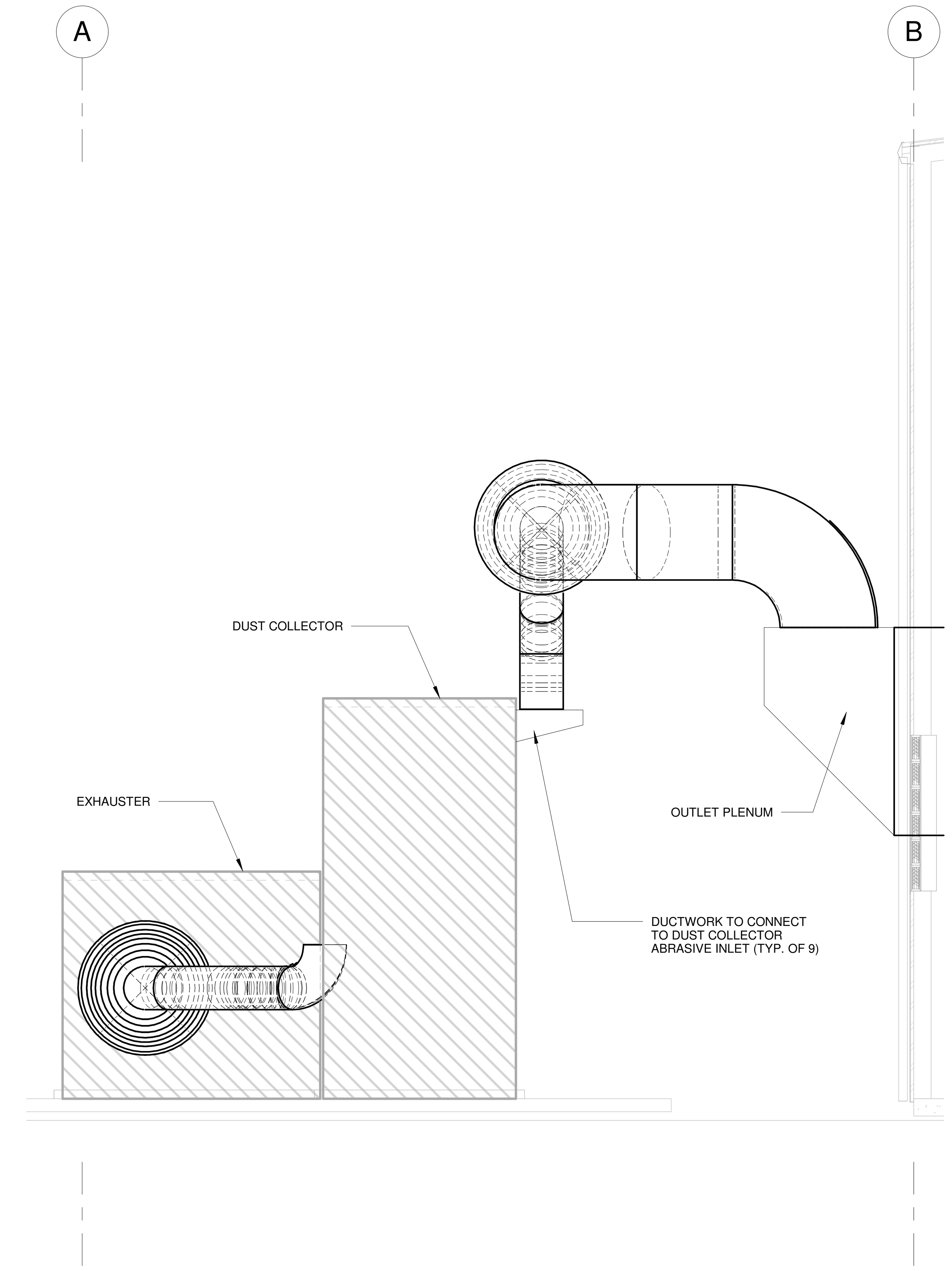


2 / M203 **HVAC EAST ELEVATION**
1/4" = 1'-0"



1 / M203 **HVAC SOUTH ELEVATION**
1/4" = 1'-0"

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NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

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CONSTRUCTION DOCUMENTS

HVAC SECTIONS :SHEET TITLE

:REVISIONS

NO.	DESCRIPTION	DATE

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M203

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9419 MARC WESLEY WHITE 11.01.24

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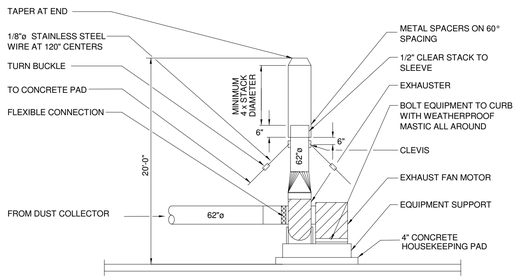
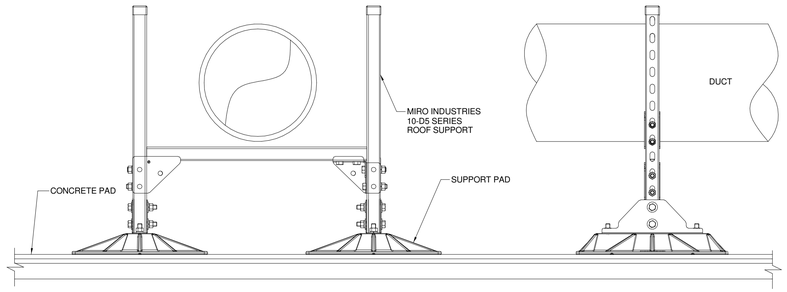


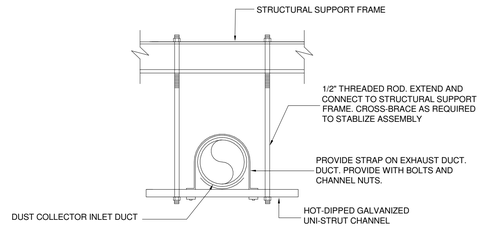
1 M300 **DUST COLLECTOR EXHAUSTER**

NOT TO SCALE



2 M300 **TYPICAL DUCT SUPPORT**

NOT TO SCALE



3 M300 **DUST COLLECTOR INLET DUCT SUPPORT**

NOT TO SCALE

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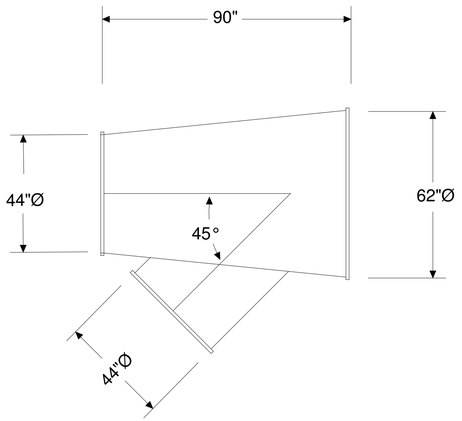
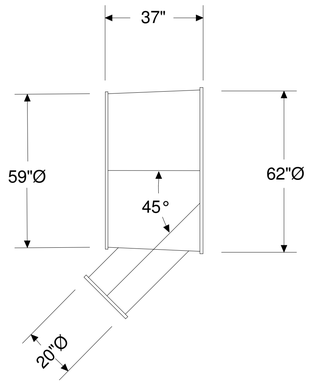


1 M301 **FITTING 'C'**
NOT TO SCALE



2 M301 **FITTINGS 'D' & 'U'**
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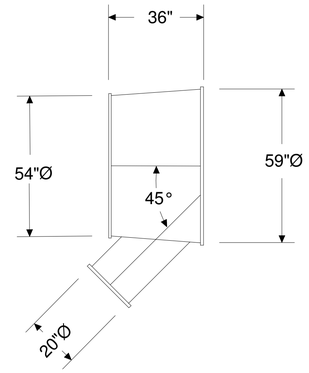

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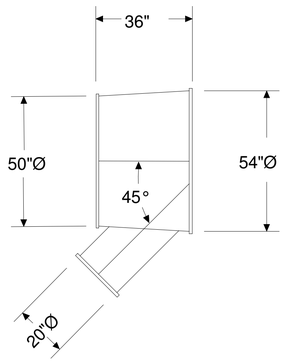

4 M301 **FITTINGS 'F' & 'S'**
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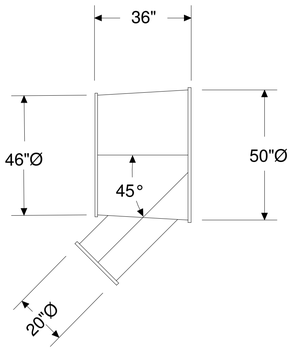

5 M301 **FITTINGS 'G' & 'R'**
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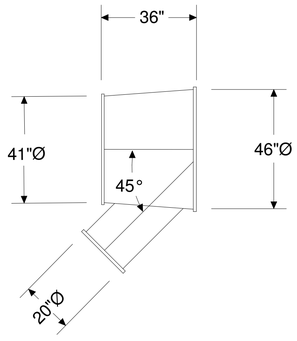

6 M301 **FITTINGS 'H' & 'Q'**
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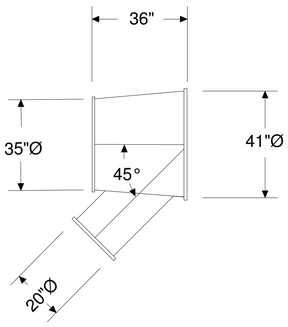

7 M301 **FITTINGS 'I' & 'P'**
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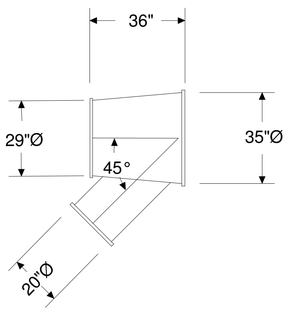
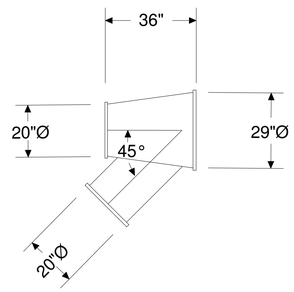
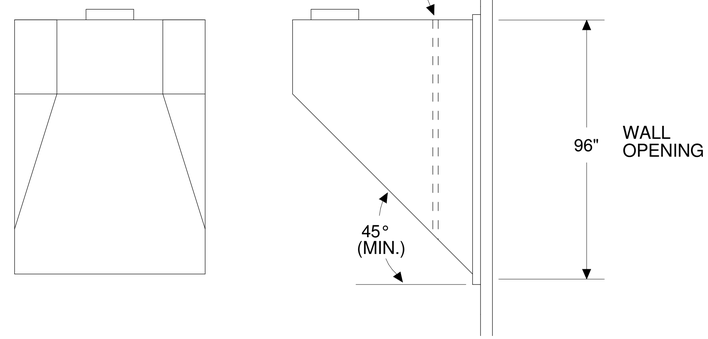


8 M301 **FITTINGS 'J' & 'O'**
NOT TO SCALE



9 M301 **FITTINGS 'K' & 'N'**
NOT TO SCALE



10 M301 **TYPICAL BLAST ROOM SIDE WALL OUTLET PLENUM WITH BAFFLE**
NOT TO SCALE

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER JERRY WESLEY WHITE No. 9419 11-01-24

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FANS

MARK	LOCATION	SERVES	TYPE	WEIGHT	FAN DATA					ELECTRICAL DATA		OPTIONS			MANUFACTURER & MODEL NO.	REMARKS
					CFM	E.S.P. "(WG)	DRIVE	RPM	SONES	H.P.	VOLTS/ PHASE	DAMPER TYPE	ROOF CURB	DISC. SWITCH		
EF-1	SEE PLANS	COMPRESSOR ROOM 103	SIDEWALL	593	18,175	0.363	BELT	703	34	3.0	460/3	BACKDRAFT	NO	YES	GREENHECK BAER-42	PROVIDE WITH WALL COLLAR, MOTOR GUARD, WEATHERHOOD WITH BIRD SCREEN AND DAMPER WITH 120V ACTUATOR

ROOF CURB TO BE PROVIDED BYMANUFACTURER. SEE SPECIFICATION FOR DETAILS.

LOUVER SCHEDULE

MARK	USE	SERVES	TYPE	AIRFLOW (CFM)	SIZE(W"XH")	FREE AREA (SF)	APD (IN-WG)	MANUFACTURER	MODEL	REMARKS
L-1	VENTILATION AIR INTAKE	COMPRESSOR ROOM 103	COMBINATION LOUVER / DAMPER	44,000	174"X96"	59.5	0.068	GREENHECK	EAC-601	PROVIDE WITH INTERNAL INSECT SCREEN, DRAINABLE STATIONARY BLADES AND 120V DAMPER ACTUATOR. FINISH PER ARCHITECT.
L-2	VENTILATION AIR INTAKE	COMPRESSOR ROOM 103	COMBINATION LOUVER / DAMPER	380	14"X24"	0.59	0.051	GREENHECK	EAC-601	PROVIDE WITH INTERNAL INSECT SCREEN, DRAINABLE STATIONARY BLADES AND 120V DAMPER ACTUATOR. FINISH PER ARCHITECT.
L-3	VENTILATION AIR INTAKE	BLAST ROOM 100	STATIONARY LOUVER	72,000	240"X96"	103.83	0.072	GREENHECK	ESD-635	PROVIDE WITH INSECT SCREEN AND DRAINABLE STATIONARY BLADES. FINISH PER ARCHITECT.

ELECTRIC UNIT HEATERS

MARK	SERVES	TYPE	KW	BTUH	ELECTRICAL DATA			MOUNTING HEIGHT (AFF)	MANUFACTURER	MODEL	REMARKS
					AMP	VOLTS	PHASE				
EUH-1	COMPRESSOR ROOM 103	WALL HEATER	12.5	42,600	15.6	480	3	10'-0"	MARKEL	P3PUHE12CA1T	1,2

NOTES:
1. DISCONNECT SWITCH
2. WALL-MOUNTING BRACKET

GRAVITY HOOD SCHEDULE

MARK	LOCATION	SERVES	TYPE	CFM	THROAT AREA (S.F)	SP	MANUFACTURER	MODEL	REMARKS
GH-1	ROOF	AC-1	EXHAUST	12,800	16	0.0089 IN. WG	GREENHECK	FGR	PROVIDE WITH ROOF CURB TO ACCOMODATE SLOPED ROOF AND BIRD SCREEN. COLOR AND FINISH SELECTED BY ARCHITECT
GH-2	ROOF	AC-2	EXHAUST	12,800	16	0.0089 IN. WG	GREENHECK	FGR	PROVIDE WITH ROOF CURB TO ACCOMODATE SLOPED ROOF AND BIRD SCREEN. COLOR AND FINISH SELECTED BY ARCHITECT

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PLUMBING NOTES:

1. REFER TO GENERAL NOTES ON DRAWING.
2. CONTRACTOR SHALL VERIFY UTILITIES LOCATIONS AND INVERTS PRIOR TO PLACEMENT OF SERVICES. ALL PLUMBING SYSTEMS SHALL BE INSTALLEDAS PER SPECIFICATIONS AND GOVERNING CODES.
3. LIMIT OF WORK UNDER THIS CONTRACT SHALL INCLUDE ALL PIPING TO BUILDING CURB LINE, OR TO 5 FEET OUTSIDE BUILDING. SEE ARCHITECTURAL SPECIFICATIONS.
4. ROUTE ALL HORIZONTAL ABOVE GRADE PIPING THROUGH JOIST SPACE EXCEPT AS REQUIRED FOR GRAVITY DRAINAGE.
5. SEAL ALL PIPE PENETRATIONS THROUGH RATED ASSEMBLIES, FLOORS, FIRE WALLS AND SMOKE WALLS. SEALANT MATERIAL SHALL BE UL APPROVED, AND SHALL MAINTAIN RATING OF ASSEMBLY BEING PENETRATED.
6. DO NOT ROUGH-IN FOR ANY OWNER FURNISHED EQUIPMENT UNTIL CUTSHEETS OF EQUIPMENT TO BE INSTALLED ARE PROVIDED.
7. MAINTAIN A MINIMUM OF 10'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, FLUES, ETC. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.

PLUMBING GENERAL NOTES:

1. REFER TO SPECIFICATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REFER TO ALL PROJECT DRAWINGS FOR DETAILS OF CONSTRUCTION AND INSTALLATION REQUIREMENTS.
3. REFER TO GENERAL CONDITIONS AND SUPPLEMENTARY GENERAL CONDITIONS FOR THE CONTRACT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR FULL COORDINATION OF PROJECT INCLUDING THE EQUIPMENT AND INSTALLATION OF THE MECHANICAL WORK.
4. CONTRACTOR SHALL BECOME, PRIOR TO BID, THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
5. THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES), THE SELECTION OF WHICH HAS INFLUENCED THE DESIGNS OF OTHER TRADES (ELECTRICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE BID, OR SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR AND ALL HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED IN THE BID.
6. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
7. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT.
8. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
10. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
11. EXACT LOCATIONS OF ALL EQUIPMENT, PIPING, ETC. SHALL BE COORDINATED WITH OTHER TRADES. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER PLUMBING REQUIREMENTS.
12. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION PRIOR TO BID.
14. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. DO NOT SUBMIT SHOP DRAWINGS FOR ANY EQUIPMENT WHICH MAY BE COORDINATED WITH OWNER FURNISHED ITEMS UNTIL THE APPROVED DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. VERIFY THE APPROVED EQUIPMENT HAS THE SAME ROUGH-IN AND FINAL CONNECTION REQUIREMENTS AND DESIGN CRITERIA AS THE DOCUMENTS. NOTIFY ENGINEER OF ANY CHANGES, INCOMPATIBILITY, OR UNUSUAL CONDITIONS IMMEDIATELY. SEE SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
15. ALL PLUMBING CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON ARCHITECTURAL SHEETS. SEAL AROUND ALL PENETRATIONS.THOROUGH UL RATED ASSEMBLIES, FIRE AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
16. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, DUCTWORK, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM PIPING.
17. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS.
18. SPECIAL CARE SHALL BE TAKEN ON THE ROOF TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF EXISTING ROOF.
19. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	NEW SANITARY VENT
	NEW SANITARY
CA	NEW COMPRESSED AIR
CA	EXISTING COMPRESSED AIR
D	NEW PIPING (refer to line designation)
D	EXISTING PIPING (refer to line designation)
(indicates direction of removal)	EXISTING TO BE REMOVED (back to point indicated)
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	NG PRESS REGULATOR
OF / CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
RI / FC	ROUGH-IN / FINAL CONNECTION
	CONNECT TO EXISTING

* NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT

PLUMBING DRAWING INDEX

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NEW BLAST FACILITY FOR
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P100

STATE OF ARKANSAS REGISTERED MECHANICAL ENGINEER NO. 9419 MARC WESLEY WHITE 11.01.24

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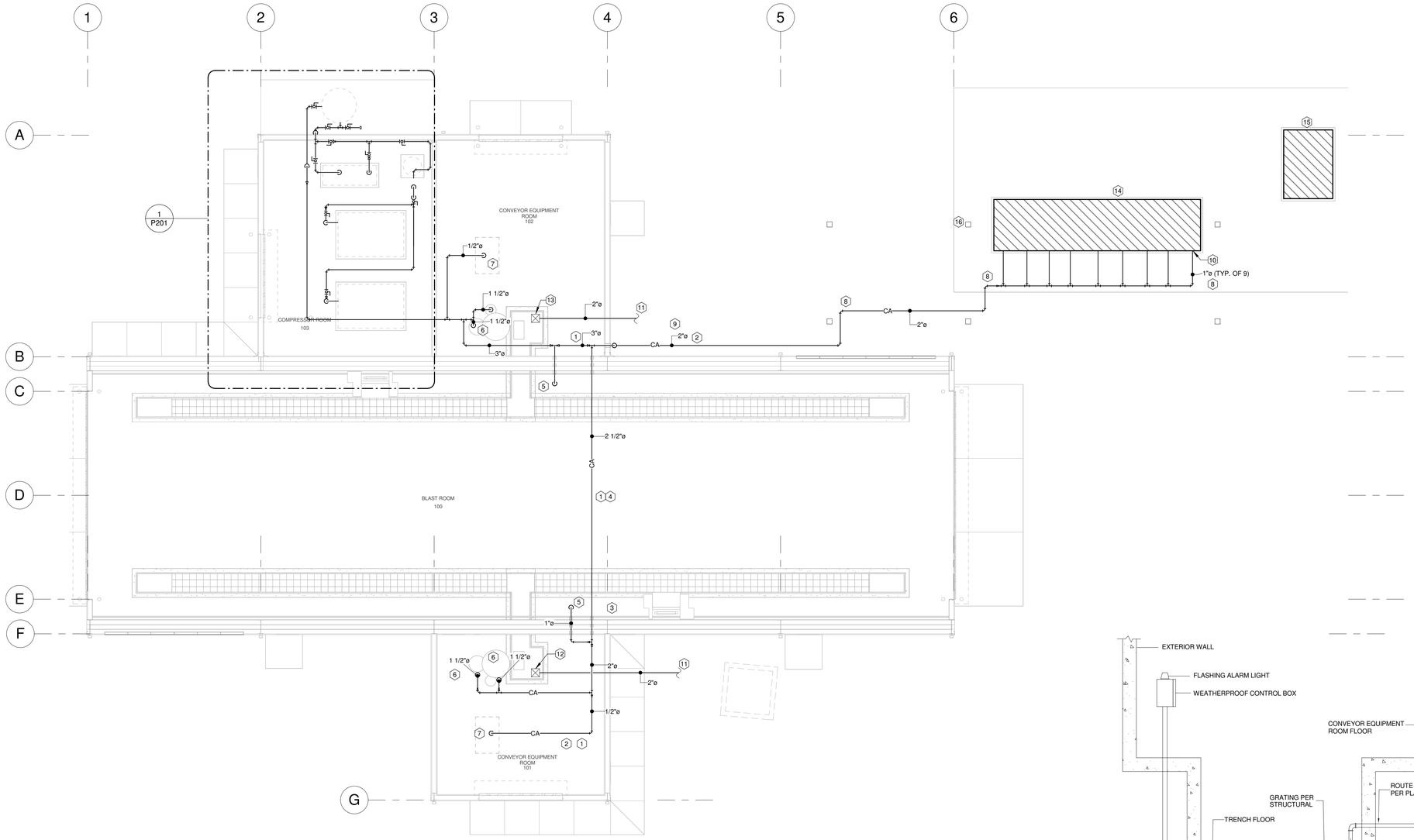
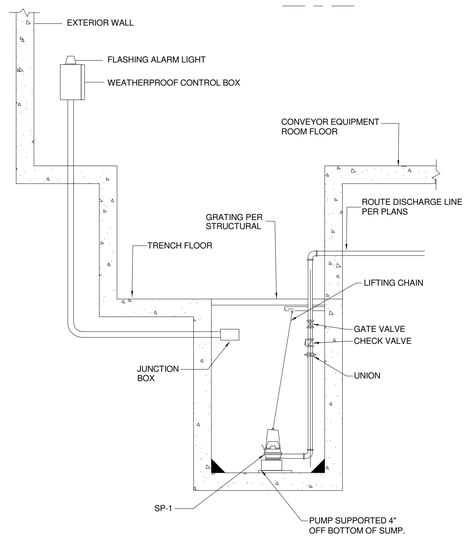


KEYED NOTES:

1. COMPRESSED AIR PIPING TO ROUTE APPROXIMATELY 35' A.F.F. SUPPORT FROM STRUCTURE ABOVE PER DETAIL 3/P201.
2. COMPRESSED AIR PIPING TO BE PAINTED GREEN. (TYPICAL)
3. SLEEVE AND SEAL WALL PENETRATION. (TYPICAL)
4. COMPRESSED AIR PIPING ROUTED ABOVE BLAST ROOM CEILING.
5. COMPRESSED AIR LINE TO DROP TO APPROXIMATELY 28' A.F.F. AND CONNECT TO THE FESTOONING SYSTEM OF LIFT WITH 1" BALL VALVE AND STAINLESS STEEL BRAIDED HOSE. COORDINATE EXACT LOCATION WITH LIFT MANUFACTURER.
6. COMPRESSED AIR LINE TO DROP AND CONNECT TO THE BLAST MACHINE WITH BALL VALVE AND STAINLESS STEEL BRAIDED HOSE. COORDINATE EXACT LOCATION WITH MANUFACTURER
7. COMPRESSED AIR LINE TO DROP AND CONNECT TO THE RPH DUST COLLECTOR MANIFOLD WITH BALL VALVE AND STAINLESS STEEL BRAIDED HOSE. COORDINATE EXACT LOCATION WITH MANUFACTURER
8. SUPPORT COMPRESSED AIR LINES FROM STRUCTURAL DUCT SUPPORT IN THIS AREA.
9. SUPPORT COMPRESSED AIR LINE FROM WALL USING UNI-STRUT SUPPORTS IN THIS AREA.
10. COORDINATE WITH DUST COLLECTION MANUFACTURER FOR EXACT COMPRESSED AIR CONNECTION POINT (TYPICAL)
11. SEE CIVIL FOR CONTINUATION.
12. SUMP PUMP SP-1 IN BOTTOM OF SUMP PER DETAIL 2/P200.
13. SUMP PUMP SP-2 IN BOTTOM OF SUMP PER DETAIL 2/P200.
14. DUST COLLECTOR.
15. EXHAUSTER.
16. COLUMN. SEE STRUCTURAL. (TYP.)

1 / P200 **PLUMBING FLOOR PLAN**
1/8" = 1'-0"



2 / P200 **SUMP PUMP**
NOT TO SCALE — SP-2 AND SP-3 SIMILAR

PUMP SCHEDULE

MARK	LOCATION	SERVES	DESIGN FLOW	DESIGN HEAD	MOTOR DATA			WEIGHT	MANUFACTURER	MODEL	REMARKS
					HP	VOLTAGE	PH				
SP-1	CONVEYOR ROOM 101	SUMP PIT	25 GPM	30'	1/2	115	1	26 LB	STANCOR	AHS-05	SUBMERSIBLE PUMP WITH COATED STEEL IMPELLER. PROVIDE WITH LIFT CHAIN AND CONTROL PANEL WITH HOA, ALARM AND NEMA 4X ENCLOSURE.
SP-2	CONVEYOR ROOM 102	SUMP PIT	25 GPM	30'	1/2	115	1	26 LB	STANCOR	AHS-05	SUBMERSIBLE PUMP WITH COATED STEEL IMPELLER. PROVIDE WITH LIFT CHAIN AND CONTROL PANEL WITH HOA, ALARM AND NEMA 4X ENCLOSURE.
SP-3	COMPRESSOR ROOM 103	CONDENSATE BASIN	25 GPM	30'	1/2	115	1	26 LB	STANCOR	AHS-05	SUBMERSIBLE PUMP WITH COATED STEEL IMPELLER. PROVIDE WITH LIFT CHAIN AND CONTROL PANEL WITH HOA, ALARM AND NEMA 4X ENCLOSURE. PROVIDE 36" ID X 48" DEEP FIBERGLASS BASIN WITH ANTI-FLOTATION RING. STEEL ENAMEL COATED COVER AND 2" INLET AND OUTLET PENETRATION HUB KITS.

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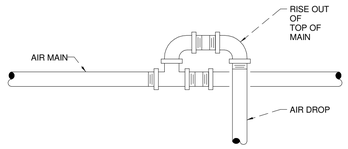
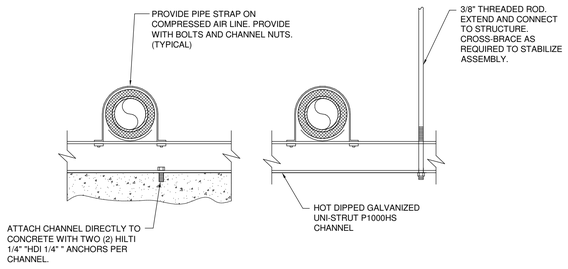
CERTIFICATE OF AUTHORIZATION BATSON, INC. No. 99 ARKANSAS ENGINEER



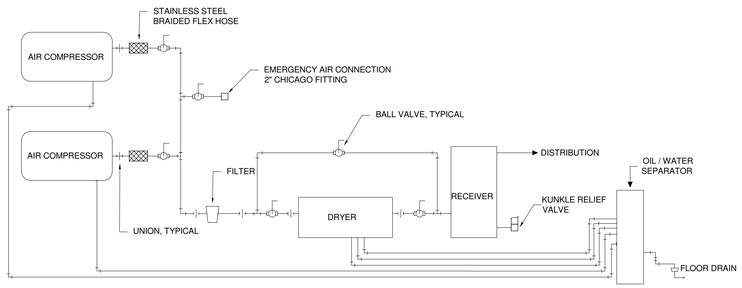
TYPICAL AIR DROP TAP

2 / P201 — 1/8" = 1'-0"



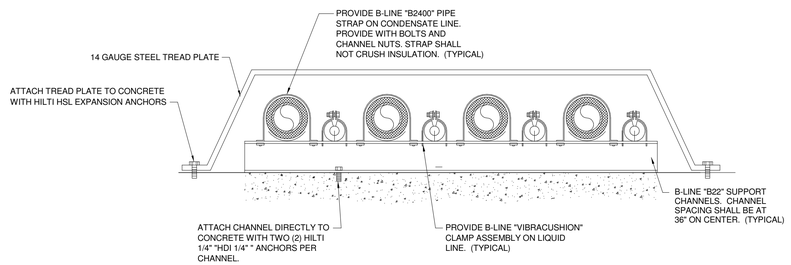
COMPRESSED AIR PIPING SUPPORT

3 / P201 — NOT TO SCALE



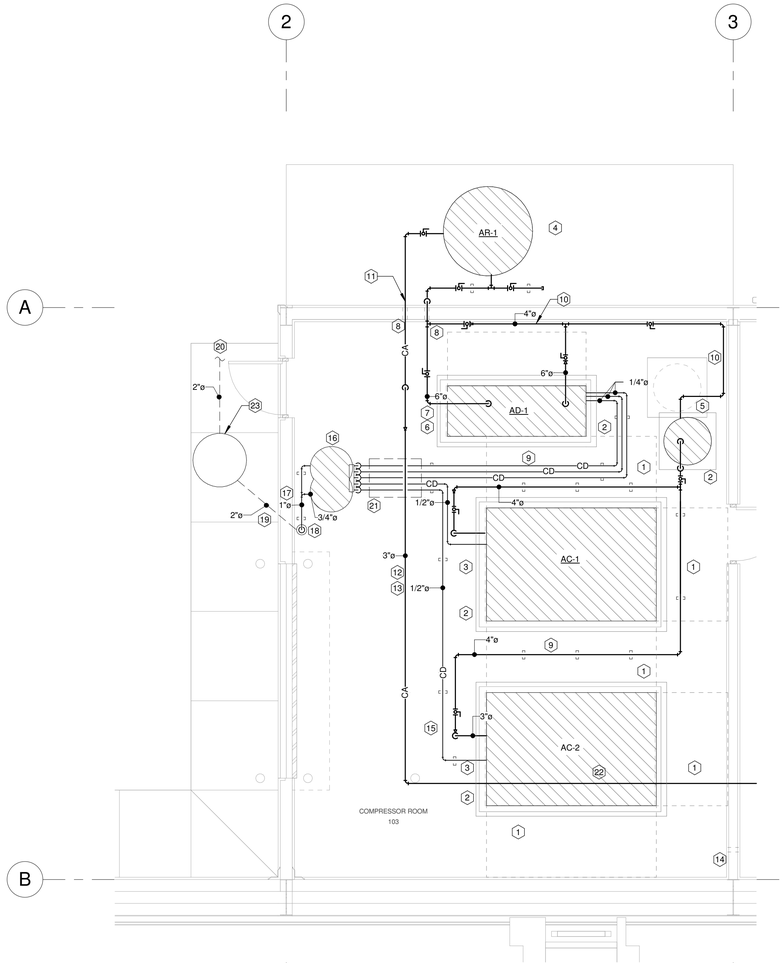
AIR COMPRESSOR CONNECTION DIAGRAM

4 / P201 — NOT TO SCALE



CONDENSATE PIPING PROTECTION AT WALK WAY

5 / P201 — 1/8" = 1'-0"



ENLARGED PLUMBING FLOOR PLAN

1 / P201 — 1/4" = 1'-0"

N

KEYED NOTES:

1. 48" MANUFACTURER REQUIRED CLEARANCE.
2. 4" CONCRETE HOUSEKEEPING PAD.
3. AIR COMPRESSOR PROVIDED BY PROCESS AND POWER.
4. AIR RECEIVER PROVIDED BY PROCESS AND POWER, MOUNTED ON 4" CONCRETE HOUSEKEEPING PAD.
5. FILTER PROVIDED BY PROCESS AND POWER
6. AIR DRYER PROVIDED BY PROCESS AND POWER
7. PROVIDE MANUFACTURER REQUIRED 36" CLEARANCES AROUND AIR DRYER
8. COMPRESSED AIR PIPING PENETRATION OF EXTERIOR WALL. SLEEVE AND SEAL PENETRATION.
9. COMPRESSED AIR PIPING AT FLOOR LEVEL AND SUPPORTED PER DETAIL 3/P201. (TYPICAL)
10. COMPRESSED AIR PIPING ROUTED ALONG WALL APPROXIMATELY 6' A.F.F. SECURE TO WALL WITH UNI-STRUT SUPPORTS.
11. COMPRESSED AIR PIPING ROUTED ALONG WALL APPROXIMATELY 15' A.F.F SECURE TO WALL WITH UNI-STRUT SUPPORTS.
12. COMPRESSED AIR PIPING RISES TO ROUTE APPOXIMATELY 35' A.F.F. SUPPORT FROM STRUCTURE ABOVE PER DETAIL 3/P201.
13. COMPRESSED AIR PIPING TO BE PAINTED GREEN. (TYPICAL)
14. SLEEVE AND SEAL WALL PENETRATION.
15. TYPE 'L' COPPER, PRESSURIZED CONDENSATE DRAIN LINE ROUTED ALONG FLOOR TO OIL/WATER SEPARATOR. SUPPORT ON UNI-STRUT PER DETAIL 3/P201. TYPICAL OF 5 DRAIN LINES.
16. NANO SEPURA STERLING MODEL SEP2500ST OIL WATER SEPARATOR, PROVIDED BY PROCESS AND POWER.
17. GRAVITY FED CONDENSATE DRAIN LINE. ROUTE TO FLOOR DRAIN AND TURN DOWN INTO FUNNEL.
18. ZURN Z415E 2" FLOOR DRAIN WITH TRAP GUARD.
19. SANITARY DRAIN LINE.
20. SEE CIVIL FOR CONTINUATION.
21. SEE DETAIL 5/P201 FOR PROTECTION OF PIPING AT WALKWAY.
22. COORDINATE EXACT ROUTING OF COMPRESSED AIR LINE IN THIS AREA WITH THE AIR COMPRESSOR EXHAUST DUCT. SEE SHEET M201 FOR EXHAUST DUCT LOCATION.
23. SUMP PUMP SP-3 AND BASIN, PER DETAIL 2/P200.

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NEW BLAST FACILITY FOR
LEXICON INC.
8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

:STAMP

CONSTRUCTION DOCUMENTS

:SHEET TITLE
ENLARGED PLUMBING FLOOR PLAN AND DETAILS

:REVISIONS

NO.	DESCRIPTION	DATE

1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

:SHEET NUMBER
P201

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9419 MARC WESLEY WHITE 11.01.24

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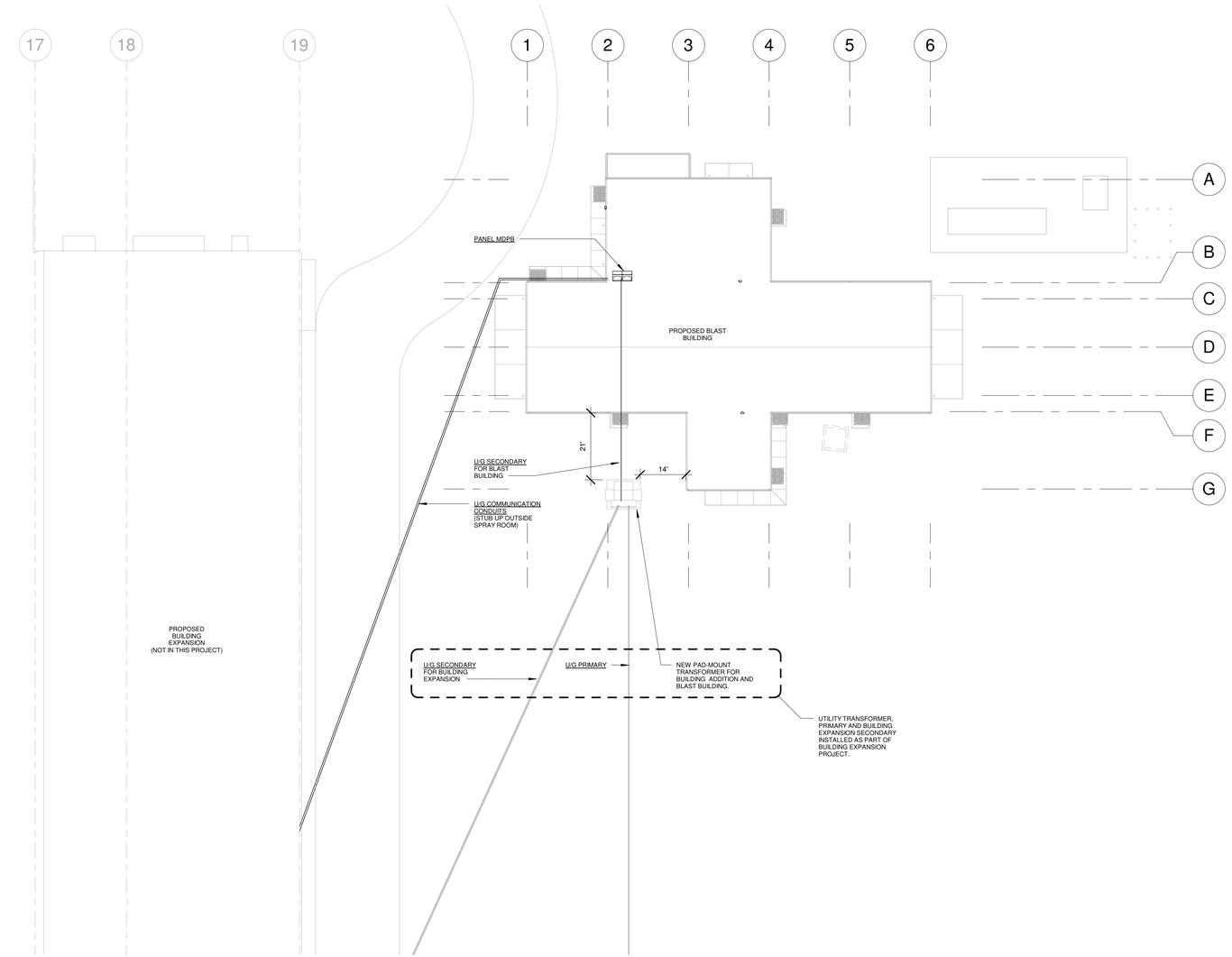
ELECTRICAL GENERAL NOTES

1. PRIOR TO BID, CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THESE NOTES AS WELL AS OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS.
2. REFER TO SPECIFICATIONS. SPECIFICATIONS AND DRAWINGS ARE COMPLIMENTARY EXCEPT THAT, IN CASE OF CONFLICT, SPECIFICATIONS WILL GOVERN.
3. BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (SEE SCHEDULES). THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (MECHANICAL, STRUCTURAL, ETC.). IF SUBSTITUTE MANUFACTURERS, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND HIS SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF SUBSTITUTE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
4. COORDINATION OF ALL MODIFICATIONS TO EACH DISCIPLINE WHICH RESULT FROM SUBSTITUTION OF EQUIPMENT OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL PROPOSED SUBSTITUTIONS SHALL BE SUBMITTED FOR REVIEW. SUBSTITUTIONS WHICH ARE INSTALLED AND SUBSEQUENTLY ARE PROVEN UNSATISFACTORY BY OWNER AND/OR ENGINEER, WITHIN THE WARRANTY PERIOD, SHALL BE REMOVED COMPLETELY BY THE CONTRACTOR AND REPLACED WITH THE ORIGINAL DESIGN OR CORRECTED AS DIRECTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE OWNER.
5. CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES; OBTAIN ALL PERMITS, AND PAY ALL GOVERNMENTAL TAXES, FEES AND OTHER COSTS IN CONNECTION WITH WORK; FILE ALL NECESSARY PLANS; PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION AND OBTAIN REQUIRED CERTIFICATES OF INSPECTION.
6. CONTRACTOR SHALL INCLUDE IN THE WORK ALL LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, ETC. IN ORDER TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES, AND REGULATIONS OF LOCAL, STATE AND FEDERAL GOVERNMENTS, WHETHER OR NOT SHOWN ON THE DRAWINGS.
7. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE COMPLETE TIE-IN WITH UTILITY LINES AT NO EXTRA COST TO THE OWNER. THE CONTRACTOR SHALL PAY ALL COSTS REQUIRED BY UTILITY COMPANY PERTAINING TO CONSTRUCTION AND TIE-IN. DEPOSITS REQUIRED FOR PERMANENT SERVICE SHALL BE PAID BY THE OWNER.
8. ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY COMPONENT, DEVICE OR OPTION. THE EQUIPMENT LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE FINAL LOCATIONS SHALL BE ESTABLISHED IN THE FIELD TO FIT THE AVAILABLE SPACE.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ELECTRICAL WORK WITH THAT OF OTHER TRADES. EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR BUILDING DETAILS AND DIMENSIONS.
10. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
11. CONTRACTOR SHALL NOT SCALE DRAWINGS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY THE CONTRACT DOCUMENTS.
12. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM.
13. ROUGH-IN OR INSTALLATION OF OWNER FURNISHED EQUIPMENT SHALL NOT BEGIN UNTIL APPROVED EQUIPMENT DRAWINGS ARE OBTAINED FROM OWNER OR ARCHITECT. SEE ARCHITECTURAL SPECIFICATIONS OR DRAWINGS FOR LIST OF OWNER FURNISHED EQUIPMENT (WHERE APPLICABLE).
14. CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOCATIONS, POWER REQUIREMENTS, ROUTING, CONDUCTOR SIZE, AND CONDUCTOR COUNT PRIOR TO ROUGH-IN.
15. COORDINATE FINAL HEIGHTS AND LOCATIONS OF ALL DEVICES WITH MILLWORK, FURNITURE OR OTHER EQUIPMENT.
16. ALL DEVICES LOCATED IN SAME GENERAL LOCATION ON THE SAME WALL SHALL BE GROUPED AND ALIGNED HORIZONTALLY OR VERTICALLY, AS NECESSARY.
17. GROUPED SWITCHES SHALL BE GANG MOUNTED.
18. COLOR AND TYPE OF DEVICE COVER PLATES TO BE SELECTED BY ARCHITECT.
19. COORDINATE FRAMES AND ACCESSORIES FOR FIXTURE MOUNTING WITH ARCHITECTURAL FINISH SCHEDULE.
20. REPLACE ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK.
21. SEAL ALL ROOF AND WALL PENETRATIONS. ROOFING CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING AND SEALING OF ALL ROOF PENETRATIONS. COORDINATE WITH GENERAL CONTRACTOR PRIOR TO BID FOR ALL REQUIRED FLASHINGS AT ROOF PENETRATIONS. MINIMUM HEIGHT OF FLASHING IS 8 IN. ABOVE ROOF.
22. SPECIAL CARE SHALL BE TAKEN ON THE ROOF TO PREVENT DAMAGE. ANY DAMAGE SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
23. SEAL ALL ELECTRICAL PENETRATIONS THROUGH RATED ASSEMBLIES, FIRE WALLS AND SMOKE WALLS. FIREPROOFING SEALANT SHALL BE UL APPROVED AND SHALL BE INSTALLED IN A MANNER THAT MAINTAINS THE RATING OF THE ASSEMBLY BEING PENETRATED.



1 E001 **ELECTRICAL SITE PLAN**
1" = 20'-0"
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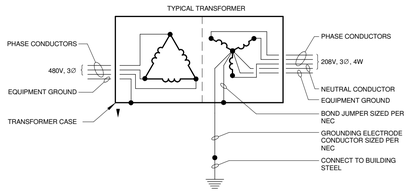
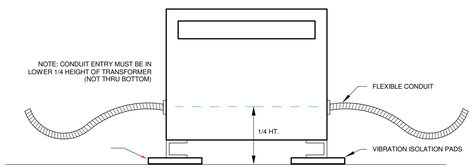


2 E001 **TRANSFORMER GROUNDING DETAIL**
NOT TO SCALE



3 E001 **TRANSFORMER CONDUIT INSTALLATION**
NOT TO SCALE

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	HIGH BAY LED PENDANT FIXTURE	S_4	FOUR-WAY SWITCH	J	JUNCTION BOX (FLUSH MOUNTED)
	2X4 LAY-IN OR SURFACE-MOUNTED FIXTURE		SIMPLEX RECEPTACLE		PUSH-BUTTON
	2X4 LAY-IN OR SURFACE-MOUNTED FIXTURE; SHADING INDICATES EMERGENCY FIXTURE		DUPLEX RECEPTACLE		COMBINATION TELEPHONE / DATA OUTLET
	SURFACE, STRIP OR PENDANT-MOUNTED FIXTURE		QUADRAPLEX RECEPTACLE	a	INDICATES ABOVE COUNTER
	WALL-MOUNTED SURFACE FIXTURE		SPECIAL RECEPTACLE - NEMA TYPE AS INDICATED	GFI	INDICATES GROUND FAULT PROTECTION
	WALL-MOUNTED EMERGENCY LIGHT		HOMERUN: HOT, NEUTRAL, GROUND	WR	INDICATES WEATHER RESISTANT
	WALL-MOUNTED EXIT LIGHT; SHADING INDICATES FACES CHEVRONS AS SHOWN ON PLANS		DISCONNECT SWITCH	TR	INDICATES TAMPER RESISTANT
	WALL-MOUNTED COMBO EXIT / EMERGENCY LIGHT		FUSED DISCONNECT SWITCH	AFF	INDICATES ABOVE FINISH FLOOR
S	SINGLE-POLE SWITCH		COMBINATION STARTER / FUSED SWITCH	AFG	INDICATES ABOVE FINISH GRADE
S_3	THREE-WAY SWITCH		MOTOR STARTER	NS	INDICATES NON-SWITCHED

*** NOTE: NOT ALL SYMBOLS SHOWN IN LEGEND ARE APPLICABLE TO THIS PROJECT. ***

ELECTRICAL DRAWING INDEX

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 9406 EDWARD J. MOTT 11.01.24

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BATSON, INC. No. 99 CERTIFICATE OF AUTHORIZATION MISSISSIPPI ENGINEER BOARD

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NEW BLAST FACILITY FOR
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CONSTRUCTION DOCUMENTS

:SHEET TITLE
ELECTRICAL SITE PLAN, NOTES, & LEGEND

:REVISIONS

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1 NOVEMBER 24 :ISSUE DATE

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E001

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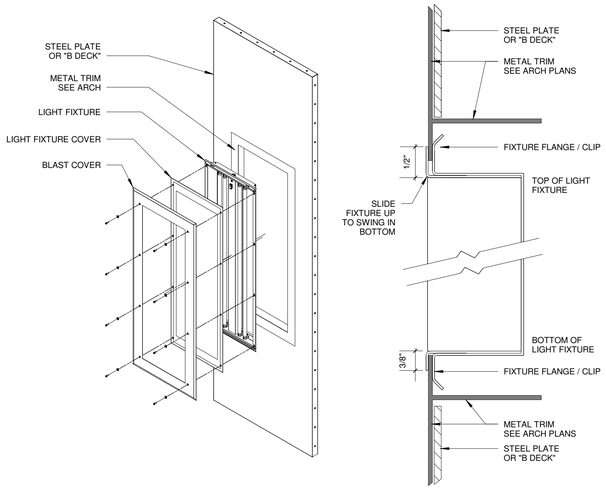
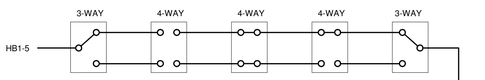


REFER TO MANUFACTURER'S INSTRUCTIONS.

SIDE VIEW

2 E101 BLAST ROOM LIGHT INSTALLATION

NOT TO SCALE



NOTES:

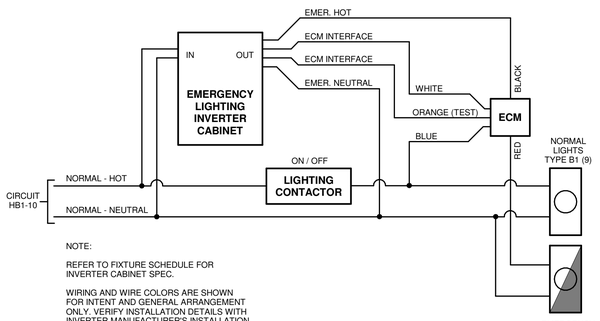
1. ELECTRICALLY HELD 10-POLE N/O LIGHTING CONTACTOR. 277V CONTROL VOLTAGE. NEMA 1 ENCLOSURE.
2. MOUNT ENCLOSURE ADJACENT TO PANEL HB1.
3. CIRCUIT CONTROL COIL TO 3-WAY AND 4-WAY SWITCHED CIRCUIT INDICATED. SWITCHES LOCATED ON THE PLANS.
4. LABEL AS "BLAST ROOM LIGHTING CONTACTORS"

SQUARE D
8903LG1000V04

HB1-2	1	TYPE B1 LIGHTS
HB1-4	2	TYPE B1 LIGHTS
HB1-6	3	TYPE B1 LIGHTS
HB1-8	4	TYPE B1 LIGHTS
HB1-10	5	TYPE B1 LIGHTS & INV
HB1-12	6	TYPE B1 LIGHTS
HB1-14	7	TYPE B1 LIGHTS
HB1-16	8	TYPE B1 LIGHTS
SPARE	9	SPARE
SPARE	10	SPARE

3 E101 LIGHTING CONTACTOR DETAIL

NOT TO SCALE



NOTE:

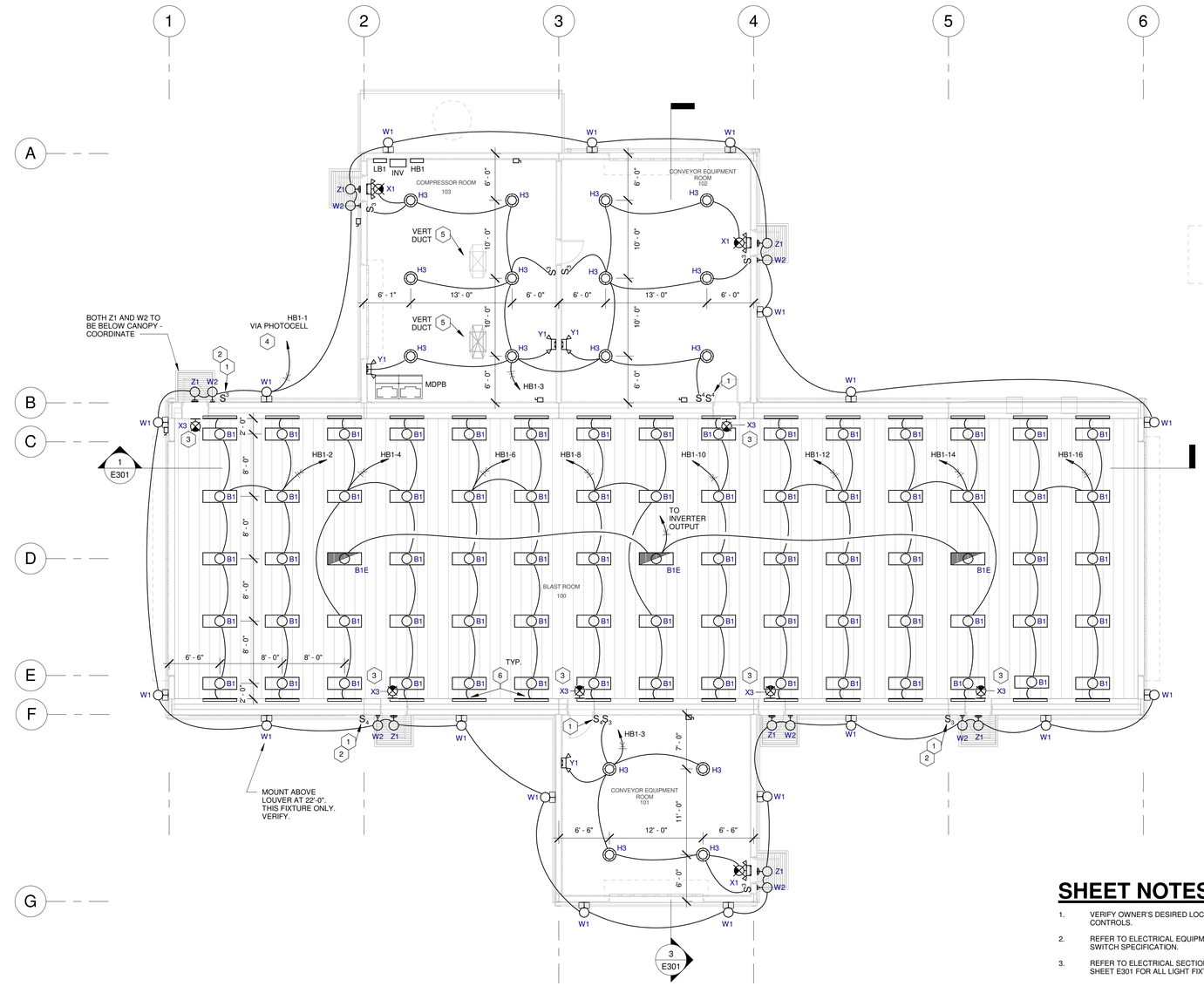
REFER TO FIXTURE SCHEDULE FOR INVERTER CABINET SPEC.

WIRING AND WIRE COLORS ARE SHOWN FOR INTENT AND GENERAL ARRANGEMENT ONLY. VERIFY INSTALLATION DETAILS WITH INVERTER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

GROUND NOT SHOWN FOR CLARITY. INSTALL GROUND CONDUCTOR FOR ALL COMPONENTS.

4 E101 EMERGENCY INVERTER WIRING DIAGRAM

NOT TO SCALE



1 E101 LIGHTING PLAN

1/8" = 1'-0"

N

LIGHTING FIXTURE SCHEDULE

ID	MANUFACTURER	MODEL NUMBER	VOLTAGE	WATTAGE	MOUNTING	DESCRIPTION	NOTES
B1 & B1E	GFS	LAB12-6-C2D2-LED / COVER-C2D2	277	200	RECESSED	RECESSED 6-LAMP BLAST ROOM LIGHT WITH LENS COVER	
H3	SOLAS RAY	DBL-210-50-277-48-UBSS	277	210	PENDANT	HIGH BAY LED	HIGH TEMPERATURE
W1	JADEMAR	JWP-NC-CPS-120W-PC-XX	277	120	WALL	EXTERIOR WALL PACK LIGHT	
W2	JADEMAR	JWP-NCS-CPS-30-PC-XX	277	30	WALL	EXTERIOR WALL LIGHT - EXTERIOR DOORS	
X1	SOLAS RAY	CESNN-1-R-12-12-W-SDT	277	5	WALL	COMBO EXIT LIGHT	
X3	ISOLITE	PH100-1-G-MTEB	--	0	WALL	PHOTOLUMINESCENT EXIT LIGHT	NON-POWERED
Y1	SOLAS RAY	NNUE-12-15-W-SDT	277	5	WALL	EMERGENCY EGRESS LIGHT	
Z1	SOLAS RAY	SRWLUE-LED	277	5	WALL	EXTERIOR EMERGENCY EGRESS	
INV	EXITRONIX	PHXLTE-875-277-277-ECM277/1-90	277	-	WALL	BLAST ROOM EMERGENCY EGRESS	

SHEET NOTES:

1. VERIFY OWNER'S DESIRED LOCATION FOR ALL LIGHTING CONTROLS.
2. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR LIGHT SWITCH SPECIFICATION.
3. REFER TO ELECTRICAL SECTIONS AND ELEVATIONS, SHEET E301 FOR ALL LIGHT FIXTURE MOUNTING HEIGHTS.

KEYED NOTES:

1. LIGHTING CONTACTOR CONTROL CIRCUIT. REFER TO LIGHTING CONTACTOR DETAIL, THIS SHEET.
2. EXTERIOR LIGHTING SWITCH. SUPPLY 3-WAY OR 4-WAY SWITCH AS INDICATED WITH BACK BOX AND SWITCH COVER AS INDICATED IN ELECTRICAL EQUIPMENT SCHEDULE. LABEL AS "INTERIOR BLAST ROOM LIGHTS"
3. NON-POWERED PHOTOLUMINESCENT EXIT SIGN.
4. MOUNT 277V PHOTOCELL ON NORTH SIDE OF BUILDING AT 8' HEIGHT.
5. INSTALL FIXTURES TO AVOID VERTICAL MECHANICAL DUCTS AND PIPING.
6. CIRCUIT FIXTURES INSTALLED VERTICALLY ON WALLS TO CORRESPONDING CEILING FIXTURE ROWS.

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:STAMP

CONSTRUCTION DOCUMENTS

:SHEET TITLE
LIGHTING PLAN

:REVISIONS

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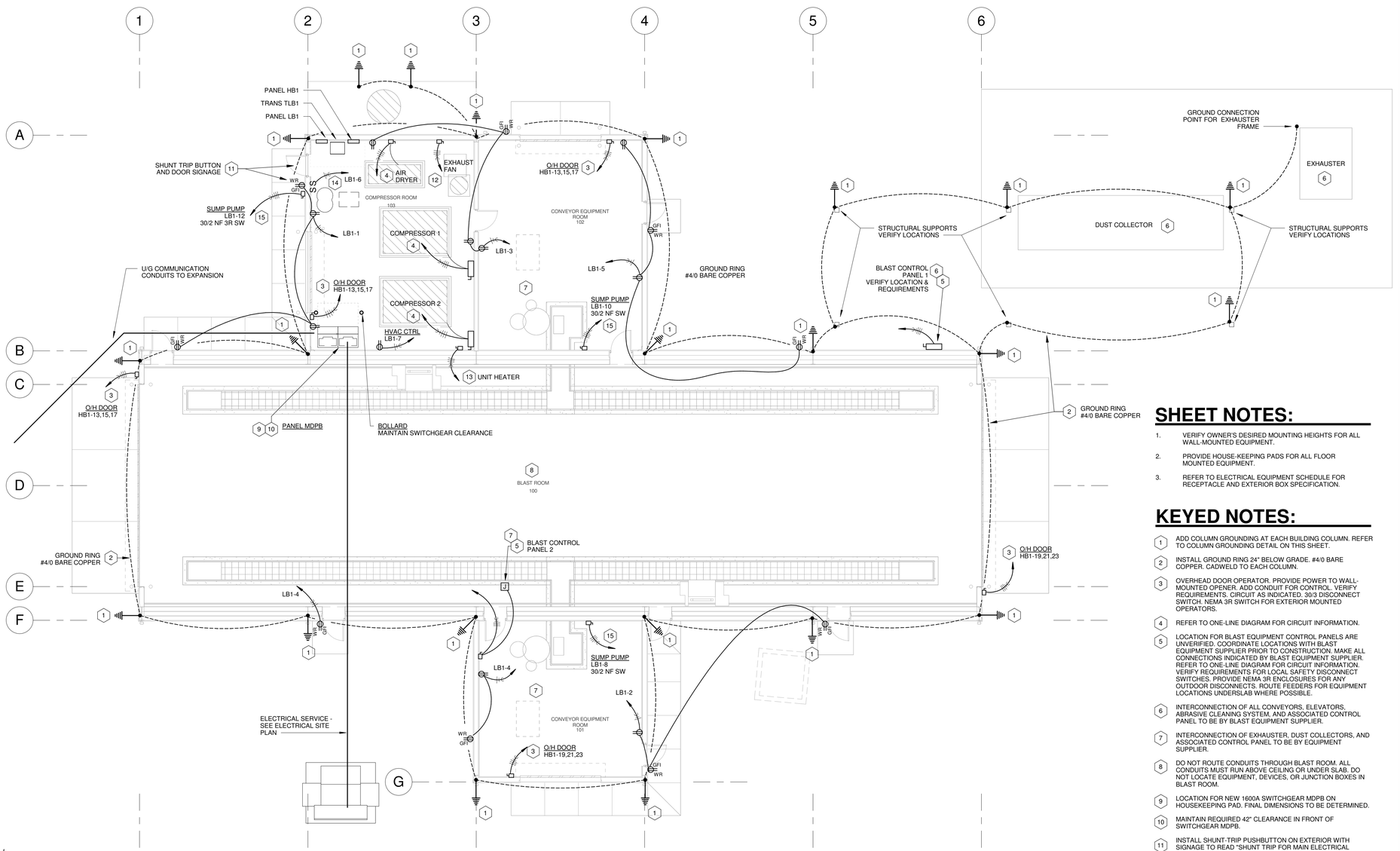
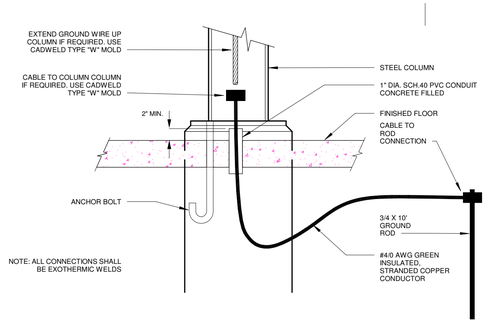


1 / E201 ELECTRICAL POWER PLAN

1/8" = 1'-0"

0 2 4 8 N



2 / E201 BUILDING COLUMN GROUNDING DETAIL

NOT TO SCALE

SHEET NOTES:

1. VERIFY OWNER'S DESIRED MOUNTING HEIGHTS FOR ALL WALL-MOUNTED EQUIPMENT.
2. PROVIDE HOUSE-KEEPING PADS FOR ALL FLOOR MOUNTED EQUIPMENT.
3. REFER TO ELECTRICAL EQUIPMENT SCHEDULE FOR RECEPTACLE AND EXTERIOR BOX SPECIFICATION.

KEYED NOTES:

1. ADD COLUMN GROUNDING AT EACH BUILDING COLUMN. REFER TO COLUMN GROUNDING DETAIL ON THIS SHEET.
2. INSTALL GROUND RING 24" BELOW GRADE. #4/0 BARE COPPER. CADWELD TO EACH COLUMN.
3. OVERHEAD DOOR OPERATOR. PROVIDE POWER TO WALL-MOUNTED OPENER. ADD CONDUIT FOR CONTROL. VERIFY REQUIREMENTS. CIRCUIT AS INDICATED. 30/3 DISCONNECT SWITCH. NEMA 3R SWITCH FOR EXTERIOR MOUNTED OPERATORS.
4. REFER TO ONE-LINE DIAGRAM FOR CIRCUIT INFORMATION.
5. LOCATION FOR BLAST EQUIPMENT CONTROL PANELS ARE UNVERIFIED. COORDINATE LOCATIONS WITH BLAST EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. MAKE ALL CONNECTIONS INDICATED BY BLAST EQUIPMENT SUPPLIER. REFER TO ONE-LINE DIAGRAM FOR CIRCUIT INFORMATION. VERIFY REQUIREMENTS FOR LOCAL SAFETY DISCONNECT SWITCHES. PROVIDE NEMA 3R ENCLOSURES FOR ANY OUTDOOR DISCONNECTS. ROUTE FEEDERS FOR EQUIPMENT LOCATIONS UNDERSLAB WHERE POSSIBLE.
6. INTERCONNECTION OF ALL CONVEYORS, ELEVATORS, ABRASIVE CLEANING SYSTEM, AND ASSOCIATED CONTROL PANEL TO BE BY BLAST EQUIPMENT SUPPLIER.
7. INTERCONNECTION OF EXHAUSTER, DUST COLLECTORS, AND ASSOCIATED CONTROL PANEL TO BE BY EQUIPMENT SUPPLIER.
8. DO NOT ROUTE CONDUITS THROUGH BLAST ROOM. ALL CONDUITS MUST RUN ABOVE CEILING OR UNDER SLAB. DO NOT LOCATE EQUIPMENT, DEVICES, OR JUNCTION BOXES IN BLAST ROOM.
9. LOCATION FOR NEW 1600A SWITCHGEAR MDPB ON HOUSEKEEPING PAD. FINAL DIMENSIONS TO BE DETERMINED.
10. MAINTAIN REQUIRED 42" CLEARANCE IN FRONT OF SWITCHGEAR MDPB.
11. INSTALL SHUNT-TRIP PUSHBUTTON ON EXTERIOR WITH SIGNAGE TO READ "SHUNT TRIP FOR MAIN ELECTRICAL SERVICE". INSTALL SIGNAGE ON EXTERIOR DOOR FOR DISCONNECT LOCATION TO READ "ELECTRICAL SERVICE CIRCUIT BREAKER DISCONNECT LOCATED INSIDE AND TO THE RIGHT"
12. EXHAUST FAN BY MECHANICAL. CIRCUIT TO HB1-25,27,29 WITH (3#12, 1#12 GR, 3/4"C), 30/3 NF SWITCH.
13. ELECTRIC UNIT HEATER BY MECHANICAL. CIRCUIT TO HB1-26,28,30 WITH (3#12, 1#12 GR, 3/4"C), 30/3 NF SWITCH
14. INSTALL 120V CIRCUIT FOR LOUVERS. PROVIDE TOGGLE DISCONNECT. COORDINATE LOCATION OF POWER WITH MECHANICAL CONTRACTOR.
15. SUMP PUMP. VERIFY LOCATION AND SWITCH REQUIREMENT. ROUTE (2#12, 1#12 GR, 3/4"C) TO GFCI BREAKERS AS INDICATED. PROVIDE 30/2 NF SWITCH IF REQUIRED. OUTDOOR SWITCH TO BE NEMA 3R.

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CONSTRUCTION DOCUMENTS

:SHEET TITLE

POWER PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

1 NOVEMBER 24 :ISSUE DATE

24-007 :PROJECT NUMBER

:SHEET NUMBER

E201

STATE OF ARKANSAS EDWARD J. HOSY REGISTERED PROFESSIONAL ENGINEER No. 9406 11.01.24

Batson Inc.
ENGINEERING SOLUTIONS
1300 Brookwood Drive
Little Rock Arkansas 72202
501-664-3311 www.batson.com

CERTIFICATE OF AUTHORIZATION BATSON, INC. No. 99 ARKANSAS ENGINEER

11/1/2024 09:37:20
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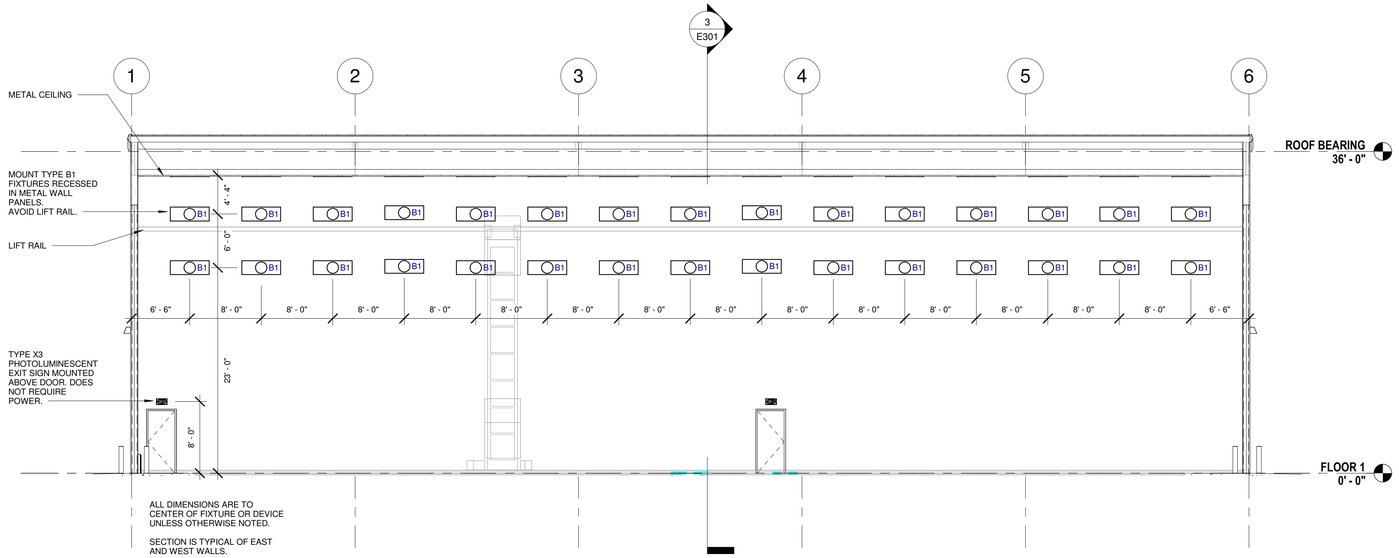
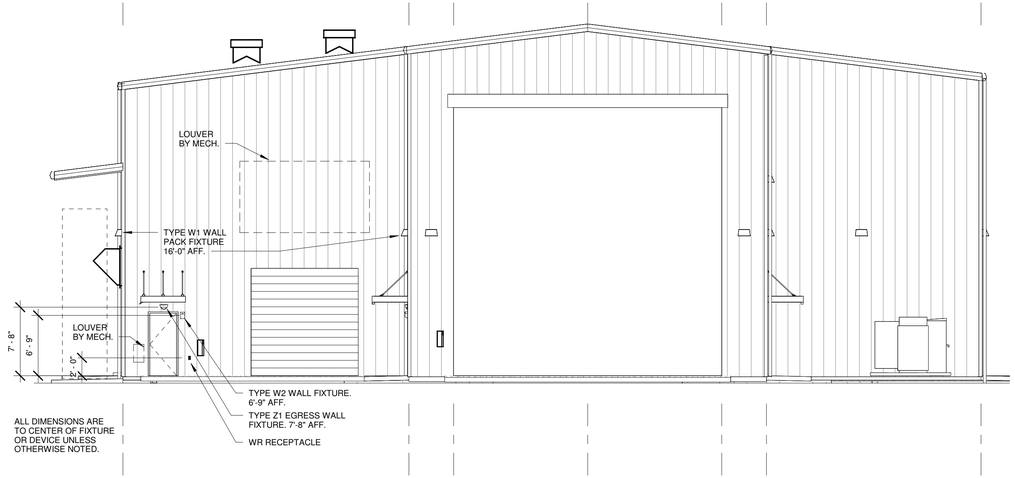


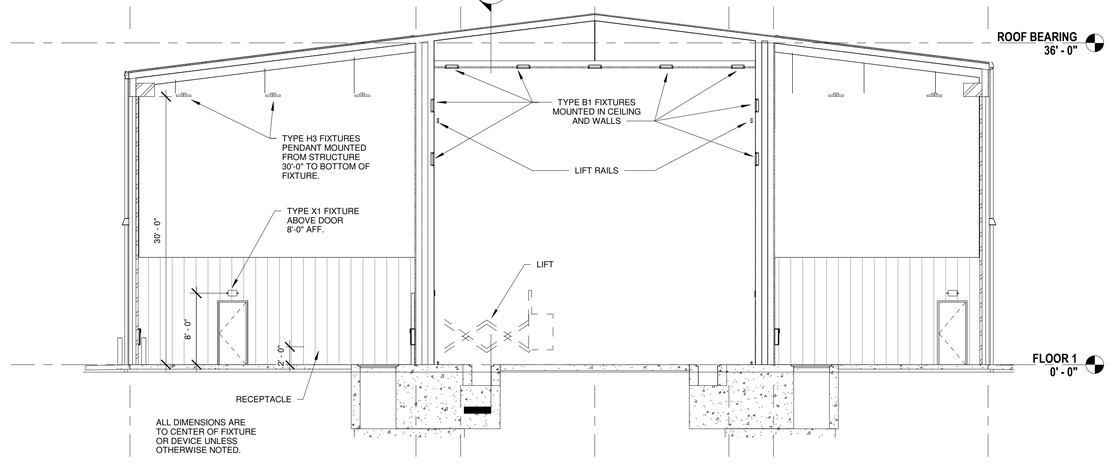
1 E301 BLAST ROOM N/S SECTION - LIGHTING

1/8" = 1'-0"



2 E301 BUILDING SOUTH ELEVATION - LIGHTING

1/8" = 1'-0"



3 E301 BUILDING SECTION - LIGHTING

1/8" = 1'-0"

WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN
18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, AR 72205
P: 501.224.1900
WWW.WILLIAMSDEAN.COM

NEW BLAST FACILITY FOR

LEXICON INC.

8900 FOURCHE DAM PIKE
LITTLE ROCK, ARKANSAS

:STAMP

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REGISTERED PROFESSIONAL ENGINEER
No. 9406
EDWARD J. HOEY
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ARKANSAS ENGINEER

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ELECTRICAL SECTIONS

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E301

PANELBOARD SCHEDULE

Panel Name:	Volts:	Mains:	Fed From:		Interrupting Rating:
MDPB	**480Y277**	**1600A**	Mounting:	Feeder:	**PER STUDY**
TYPE:	phase: / wire:	lugs / breaker	surface / flush	top / bottom	**COPPER BUS**
QED2	**3** / **4**	**X**	**X**	**X**	**GROUND BAR**

BRANCH BREAKERS

ITEM	CKT BKR	CKT NO.	LOAD (KVA) A	B	C	LOAD(KVA) A	B	C	CKT NO.	CKT BKR	ITEM
BLAST CONTROL PANEL 1	**400** / **3**	1	75.0	75.0	75.0	89.0	89.0	89.0	2	**500** / **3**	COMPRESSOR 1
BLAST CONTROL PANEL 2	**30** / **3**	3	6.7	6.7	6.7	89.0	89.0	89.0	4	**500** / **3**	COMPRESSOR 2
PANEL HB1	**225**		24.40			8.5				**50**	AIR DRYER
LIGHTING & O/H DOORS	**3**	5		22.27	18.56		8.5	8.5	6	**3**	
SPACE		7							8		SPACE
SPACE		9							10		SPACE
SPACE		11							12		SPACE
			106	104	100	187	187	187			
SE-RATED			293	290	287	TOTALS					
			870			**TOTAL CONN. LOAD KVA**					

PANELBOARD SCHEDULE

Panel Name:	Volts:	Mains:	Fed From:		Interrupting Rating:
HB1	**480Y277**	**225A**	Mounting:	Feeder:	**PER STUDY**
TYPE:	phase: / wire:	lugs / breaker	surface / flush	top / bottom	**COPPER BUS**
NQOD	**3** / **4**	**X**	**X**	**X**	**GROUND BAR**

BRANCH BREAKERS

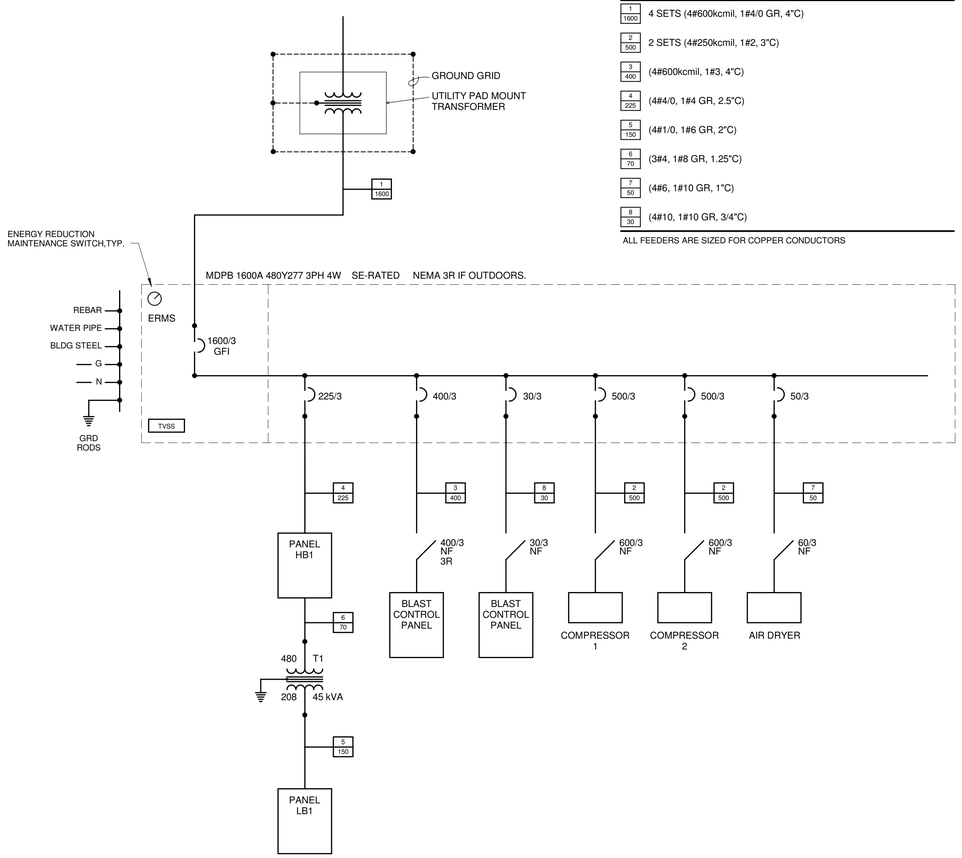
ITEM	CKT BKR	CKT NO.	LOAD (KVA) A	B	C	LOAD(KVA) A	B	C	CKT NO.	CKT BKR	ITEM
LIGHTING EXTERIOR	20/1	1	2.65			3.60			2	20/1	LIGHTING BLAST ROOM
LIGHTING COMPRESSOR / CONVEYOR	20/1	3		2.81			3.60		4	20/1	LIGHTING BLAST ROOM
LIGHTING CONTACTOR CONTROL	20/1	5			1.00			3.60	6	20/1	LIGHTING BLAST ROOM
SPARE	20/1	7	0.00			3.60			8	20/1	LIGHTING BLAST ROOM
SPARE	20/1	9		0.00			1.80		10	20/1	LIGHTING BLAST ROOM
SPARE	20/1	11			0.00			3.60	12	20/1	LIGHTING BLAST ROOM
OVERHEAD DOORS	20/3	13	1.33			3.60			14	20/1	LIGHTING BLAST ROOM
		15		1.33			3.60		16	20/1	LIGHTING BLAST ROOM
		17			1.33				18	20/1	SPARE
OVERHEAD DOORS	20/3	19	1.33			2.70			20	70/3	TRANSFORMER TLB1
		21		1.33			2.20		22		
		23			1.33			2.10	24		
EXHAUST FAN EF-1	20/3	25	1.40			4.20			26	20/3	UNIT HEATER EUH-1
		27		1.40			4.20		28		
		29			1.40			4.20	30		
SPACE		31							32		SPACE
SPACE		33							34		SPACE
SPACE		35							36		SPACE
SPACE		37							38		SPACE
SPACE		39							40		SPACE
SPACE		41							42		SPACE
			6.70	6.87	5.06	17.70	15.40	13.50			
			24.40	22.27	18.56	TOTALS					
			65.23			**TOTAL CONN. LOAD KVA**					

PANELBOARD SCHEDULE

Panel Name:	Volts:	Mains:	Fed From:		Interrupting Rating:
LB1	**120/208**	**150A**	Mounting:	Feeder:	**PER STUDY**
TYPE:	phase: / wire:	lugs / breaker	surface / flush	top / bottom	**COPPER BUS**
NQOD	**3** / **4**	**X**	**X**	**X**	**GROUND BAR**

BRANCH BREAKERS

ITEM	CKT BKR	CKT NO.	LOAD (KVA) A	B	C	LOAD(KVA) A	B	C	CKT NO.	CKT BKR	ITEM
RECEPS WEST CONVEYOR ROOM	20/1	1	0.80			0.60			2	20/1	RECEPS EAST CONVEYOR ROOM
RECEPS COMPRESSOR ROOM	20/1	3		0.80			0.60		4	20/1	RECEPS EAST CONVEYOR ROOM
RECEPS COMPRESSOR ROOM	20/1	5			0.80			0.50	6	20/1	LOUVERS
HVAC CONTROL	20/1	7	0.50			0.80			8	20/2	SUMP PUMP 1/2HP GFCI
SPARE	20/1	9					0.80		10	20/1	SUMP PUMP 1/2HP GFCI
SPARE	20/1	11						0.80	12	20/1	SUMP PUMP 1/2HP GFCI
SPARE	20/1	13							14	20/1	SPARE
SPACE		15							16		SPACE
SPACE		17							18		SPACE
SPACE		19							20		SPACE
SPACE		21							22		SPACE
SPACE		23							24		SPACE
SPACE		25							26		SPACE
SPACE		27							28		SPACE
SPACE		29							30		SPACE
SPACE		31							32		SPACE
SPACE		33							34		SPACE
SPACE		35							36		SPACE
SPACE		37							38		SPACE
SPACE		39							40		SPACE
SPACE		41							42		SPACE
			1.30	0.80	0.80	1.40	1.40	1.30			
			2.70	2.20	2.10	TOTALS					
			7.00			**TOTAL CONN. LOAD KVA**					**PROVIDE GFCI FOR 8,10, & 12**



ONE-LINE FEEDER SCHEDULE

1 / 1600	4 SETS (4#600kcmil, 1#4/0 GR, 4"C)
2 / 500	2 SETS (4#250kcmil, 1#2, 3"C)
3 / 400	(4#600kcmil, 1#3, 4"C)
4 / 225	(4#4/0, 1#4 GR, 2.5"C)
5 / 150	(4#1/0, 1#6 GR, 2"C)
6 / 70	(3#4, 1#8 GR, 1.25"C)
7 / 50	(4#6, 1#10 GR, 1"C)
8 / 30	(4#10, 1#10 GR, 3/4"C)

ALL FEEDERS ARE SIZED FOR COPPER CONDUCTORS

1 / E401 **ELECTRICAL ONE-LINE DIAGRAM**

NOT TO SCALE

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