

LIFE-SAFETY INFORMATION

APPLICABLE CODES FOR AREAS OF IMPROVEMENT	
NFPA 101 LIFE-SAFETY CODE 2012	
OCCUPANCY INDUSTRIAL AND BUSINESS, SEPARATED USE; CONSTRUCTION TYPE II B	
INDUSTRIAL (CHAPTER 40)	BUSINESS (CHAPTER 34)
OCCUPANT LOAD FACTOR (REFERENCE CHAPTER 6)	
INDUSTRIAL	23,951 S.F./ 100 SF PER OCCUPANT = 239 OCCUPANTS
BUSINESS	2,781 S.F./ 100 SF PER OCCUPANT = 27 OCCUPANTS
CONSTRUCTION TYPE(S) (REFERENCE CHAPTERS, TABLE A.9.2.1.2 AND COMMENTARY TABLE B.1 IN HANDBOOK)	
V(I000)	
MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS (REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)	
INDUSTRIAL - 1/2 DIAGONAL = 134.4 FT.	BUSINESS - SINGLE EXIT REQUIRED
MAXIMUM DEAD-END CORRIDORS	B = 50 FT; INDUSTRIAL = 50 FT (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
MAXIMUM COMMON PATH OF TRAVEL DISTANCE	B = 75 FT; INDUSTRIAL = 50 FT (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
MAXIMUM TRAVEL DISTANCE TO EXITS	B=100 FT; INDUSTRIAL=200 FT (REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)
EXTINGUISHMENT REQUIREMENTS	SPRINKLER (NOT REQUIRED)
DETECTION, ALARM, AND COMMUNICATION SYSTEMS	NO
ALLOWABLE HEIGHT AND BUILDING AREA	PER IBC EQUIVALENT CONSTRUCTION TYPE

BUILDING CODE INFORMATION

APPLICABLE CODES: IBC FOR EXISTING CONSTRUCTION AND IBC 2012 FOR NEW AREAS	
LOW-HAZARD FACTORY F-2	4 BUSINESS GROUP B CHAPTER 3 (TABLE 1004.1.2)
LOW-HAZARD FACTORY F-2 = 23,951 SQ. FT.	100 SF PER OCCUPANT (GROSS) 239 OCCUPANTS
BUSINESS AREAS = 2,781 SQ. FT.	100 SF PER OCCUPANT (GROSS) 27 OCCUPANTS
CONSTRUCTION TYPE(S): II B (SECTION 503) (TABLE 503)	
ALLOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION	
MAXIMUM HEIGHT IN STORIES (SECTION 503 & 504, TABLE 503)	B 4 F-2: 9 STORIES FOR TYPE IIB CONSTRUCTION
MAXIMUM AREA IN SQUARE FEET (SECTION 503, 506 & 507, TABLE 503)	B 4 F-2: 23,000 S.F. FOR TYPE IIB CONSTRUCTION
SEPARATION OF OCCUPANCIES, TBL 508.4	BUSINESS TO LOW-HAZARD FACTORY = 2HR
EXISTING BUILDING SIZE = 26,084 S.F.	ADJUSTED ALLOWABLE MAXIMUM AREA = 38,640 S.F.
SPRINKLER: NOT REQUIRED	EXIT ACCESS TRAVEL DISTANCE FOR F-2 = 300 FT & B = 200FT

ALLOWABLE BLDG AREA INCREASE

IBC SEC 506

$A_t = 23,000$ S.F.

$I_f = (F/P - 0.25) \times W/30$

$F = 0.295$; $P = 0.295$; $W = 27$ ft

$I_f = ((0.295/0.295) - 0.25) \times (27/30)$

$I_f = 0.68$

$A_a = [A_t + (A_t \times I_f) + (A_t \times 15)]$

$A_a = [23,000 + (23,000 \times 0.68)]$

$A_a = 38,640$ S.F.

WIND SPEED DESIGN REQUIREMENTS

THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA:

DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3 (A), (B), OR (C) DEPENDING ON THE RISK CATEGORY

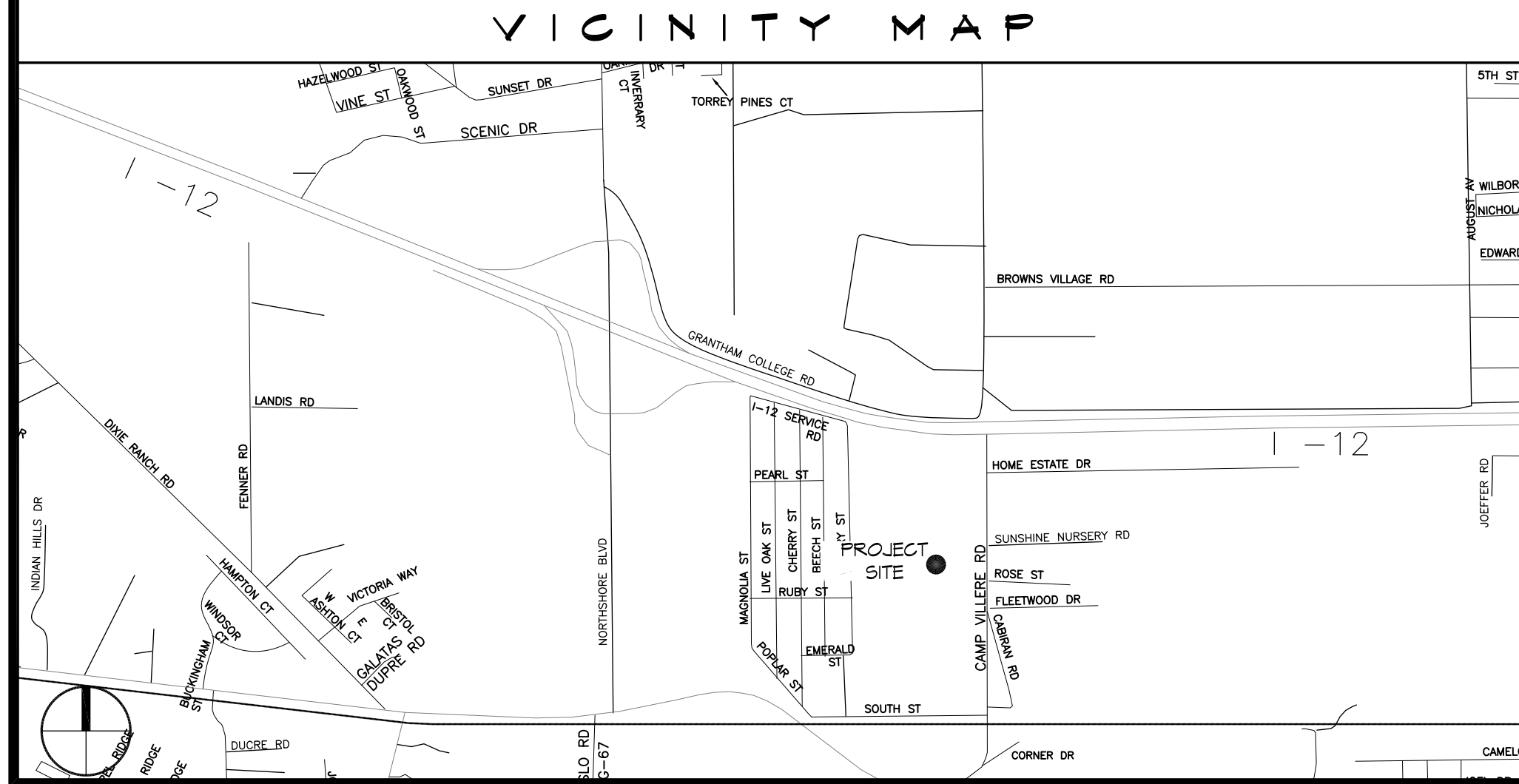
V ULTIMATE WIND SPEED (3 SECOND GUST) =	140 MPH
V NOMINAL WIND SPEED (1609.3.1)	108 MPH
RISK FACTOR:	SURFACE ROUGHNESS = B
TOPOGRAPHIC FACTOR =	EXPOSURE = B
DESIGN WIND PRESSURE (ASCE 7-10 TABLE 28.6-1):	34.7 PSF
INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1):	+ 0.18
LIVE LOADS (IBC SEC 1607)	
STORAGE, LIGHT (IBC TABLE 1607.1):	125 PSF
ROOF LIVE LOADS (IBC TABLE 1607.1):	20 PSF UNIFORM, 300 LB CONCENTRATED
SNOW LOADS (IBC SEC 1608 & ASCE SEC 7):	
GROUND SNOW LOAD (IBC FIG 1608.2) & RAIN-ON-SNOW SURCHARGE (ASCE 7 SEC 7.10):	5 PSF

FLOOD ZONE INFORMATION

BASED ON THE SURVEY OF THIS PROPERTY ?? THIS PROPERTY ?? SPECIAL FLOOD HAZARD AREA. F.I.R.M. COMMUNITY MAP NO 225205 0415 C; REVISED 4/02/91

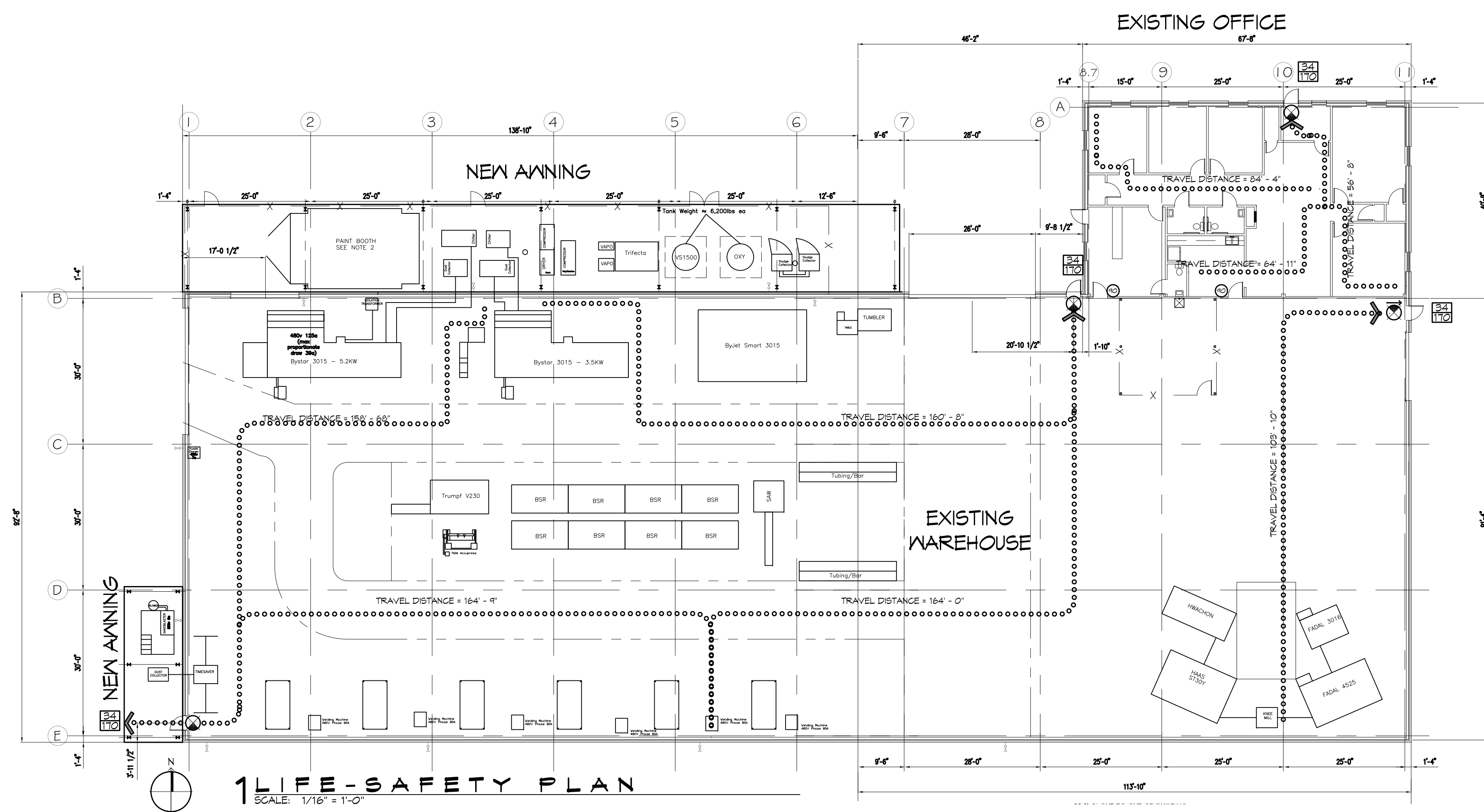
FLOOD ZONE:	C	BASE FLOOD ELEVATION	N/A NGVD
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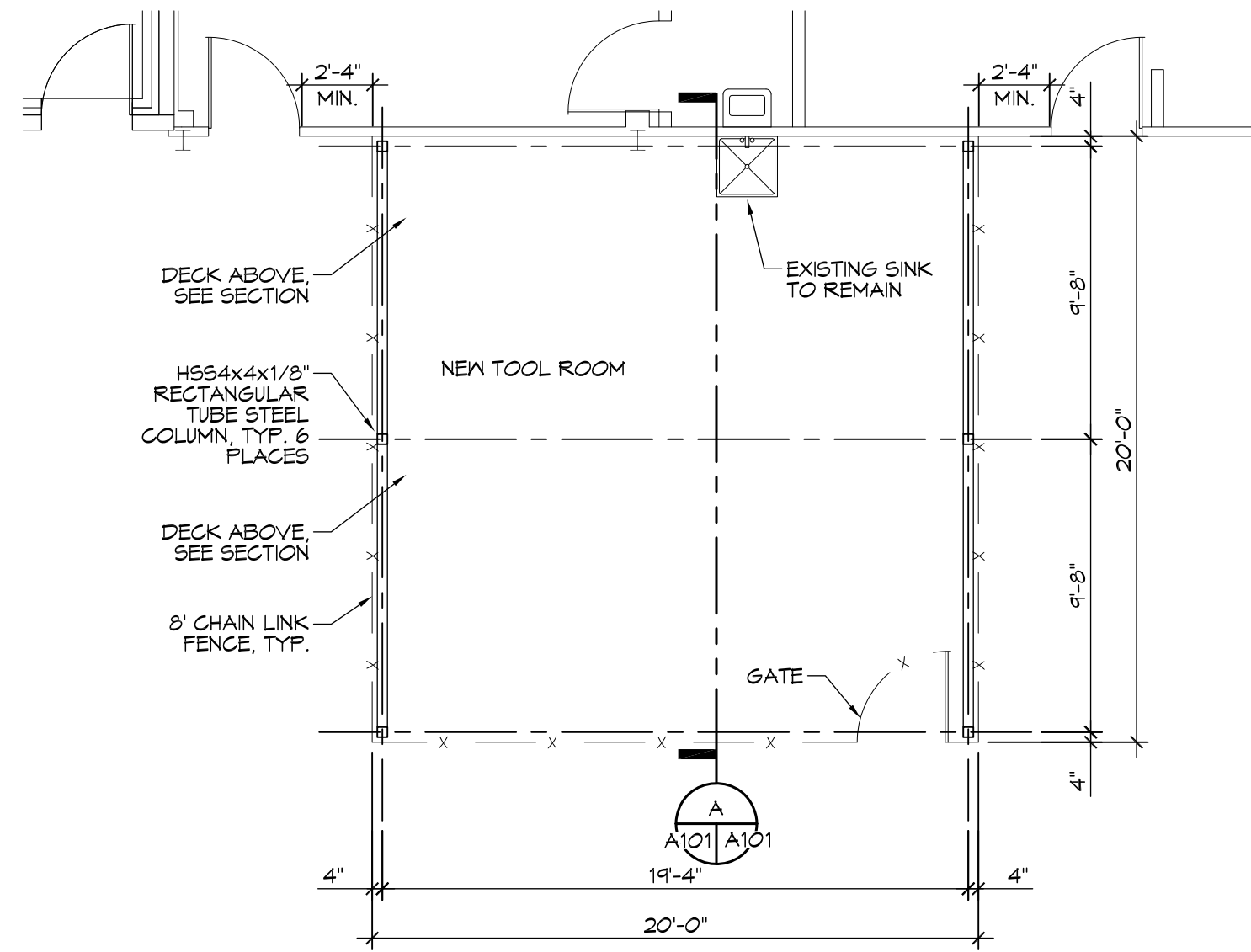
ELEVATIONS REFER TO NGVD 1929 DATUM



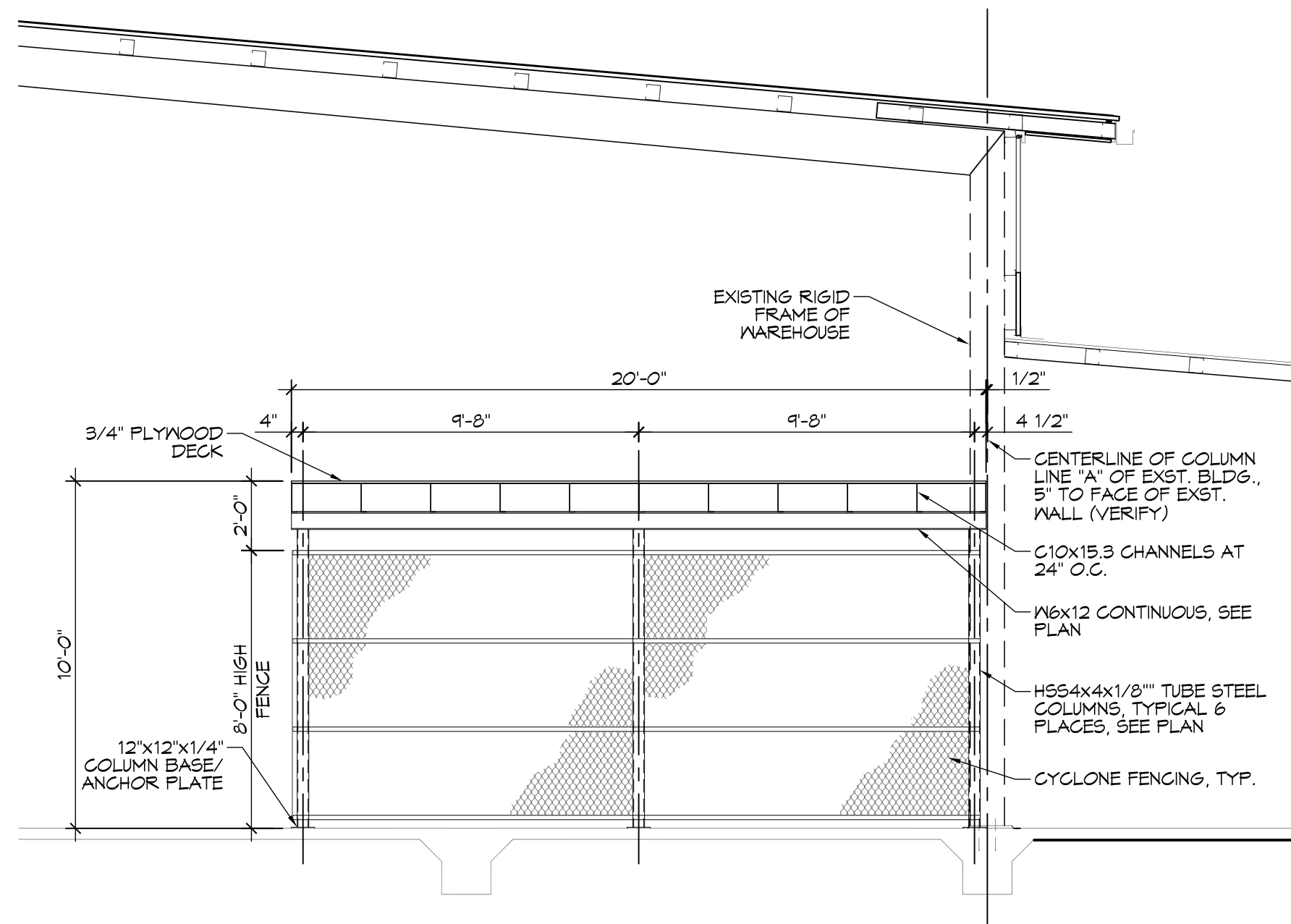
ALLIANCE LASER

60207 CAMP VILLERE RD SLIDELL, LA 70460

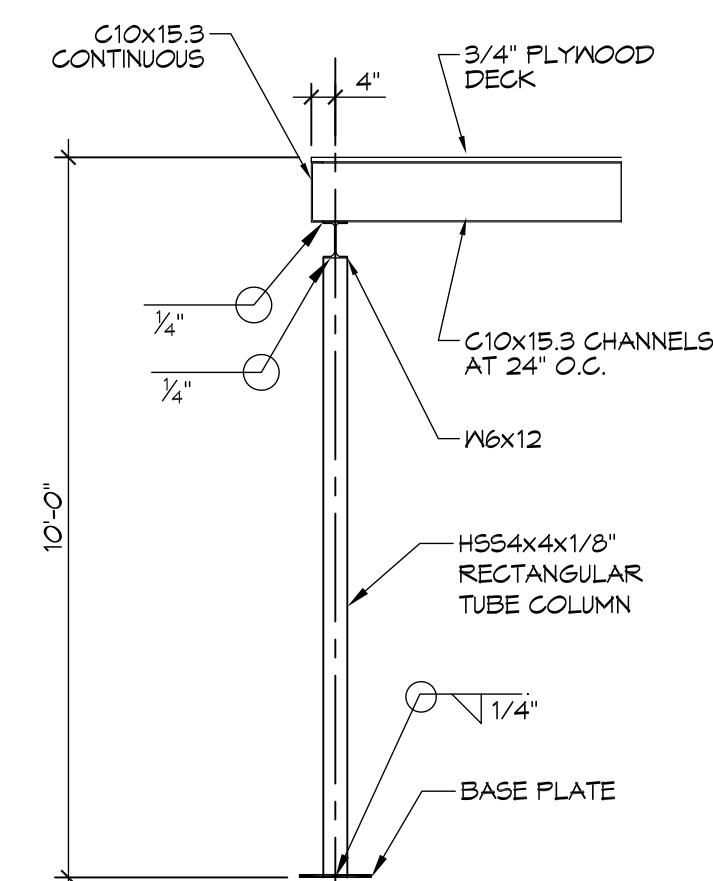




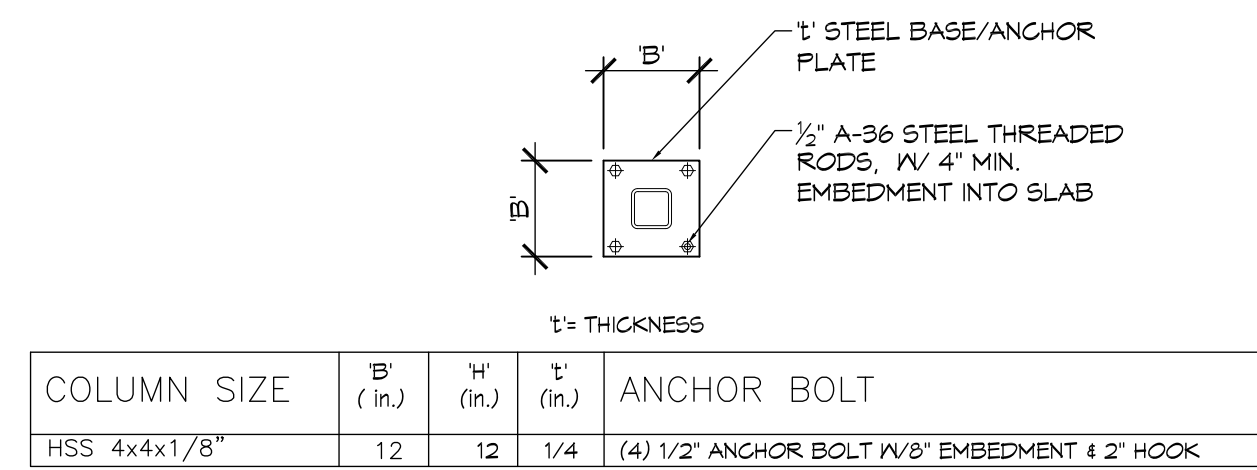
2 TOOL ROOM
SCALE: 3/16" = 1'-0"
ENLARGED PLAN/COLUMN LAYOUT



A TOOL ROOM SECTION
SCALE: 1/4" = 1'-0"
TYPICAL CROSS-SECTION

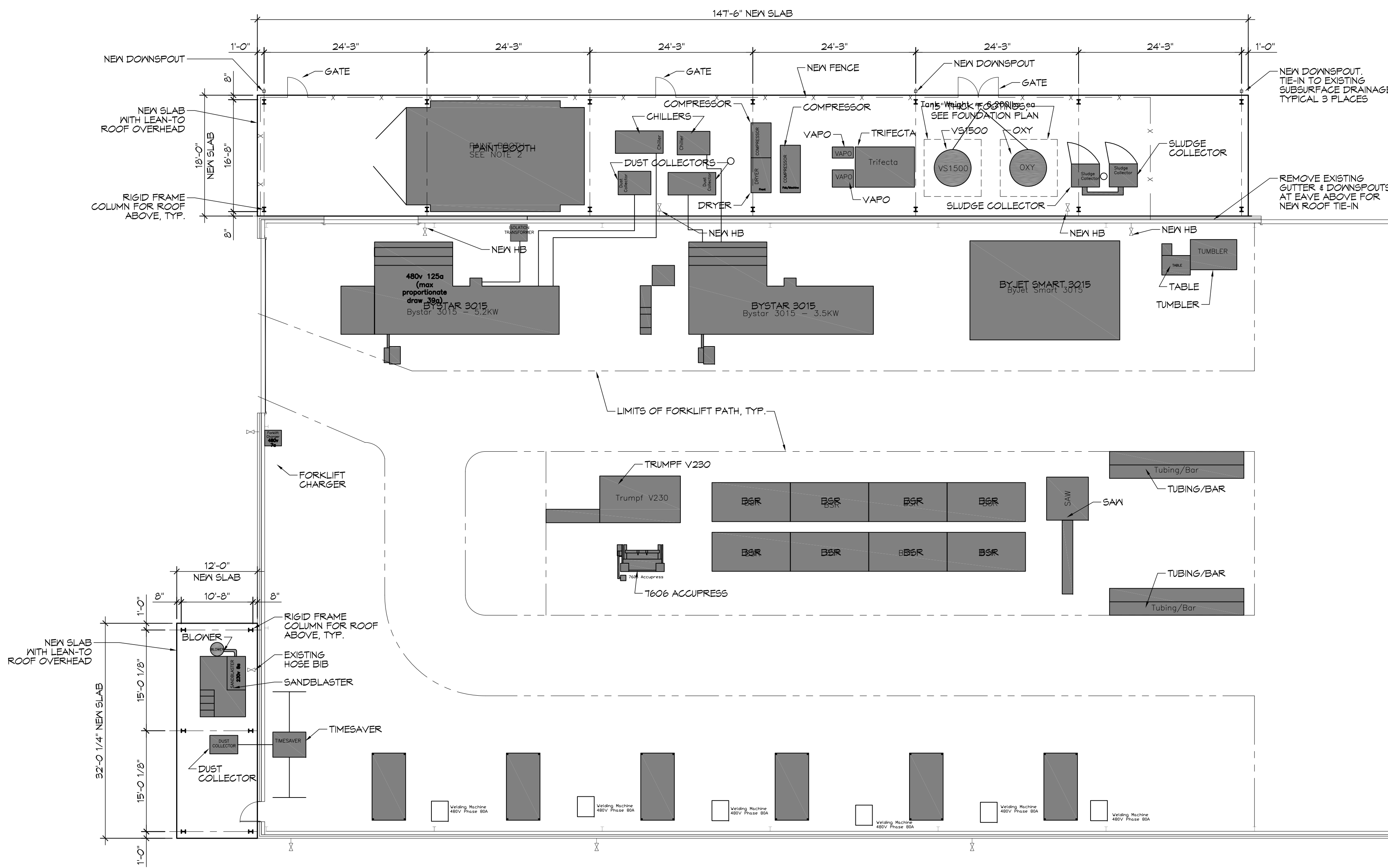


3 DETAIL
SCALE: 1/4" = 1'-0"
COLUMN DETAIL

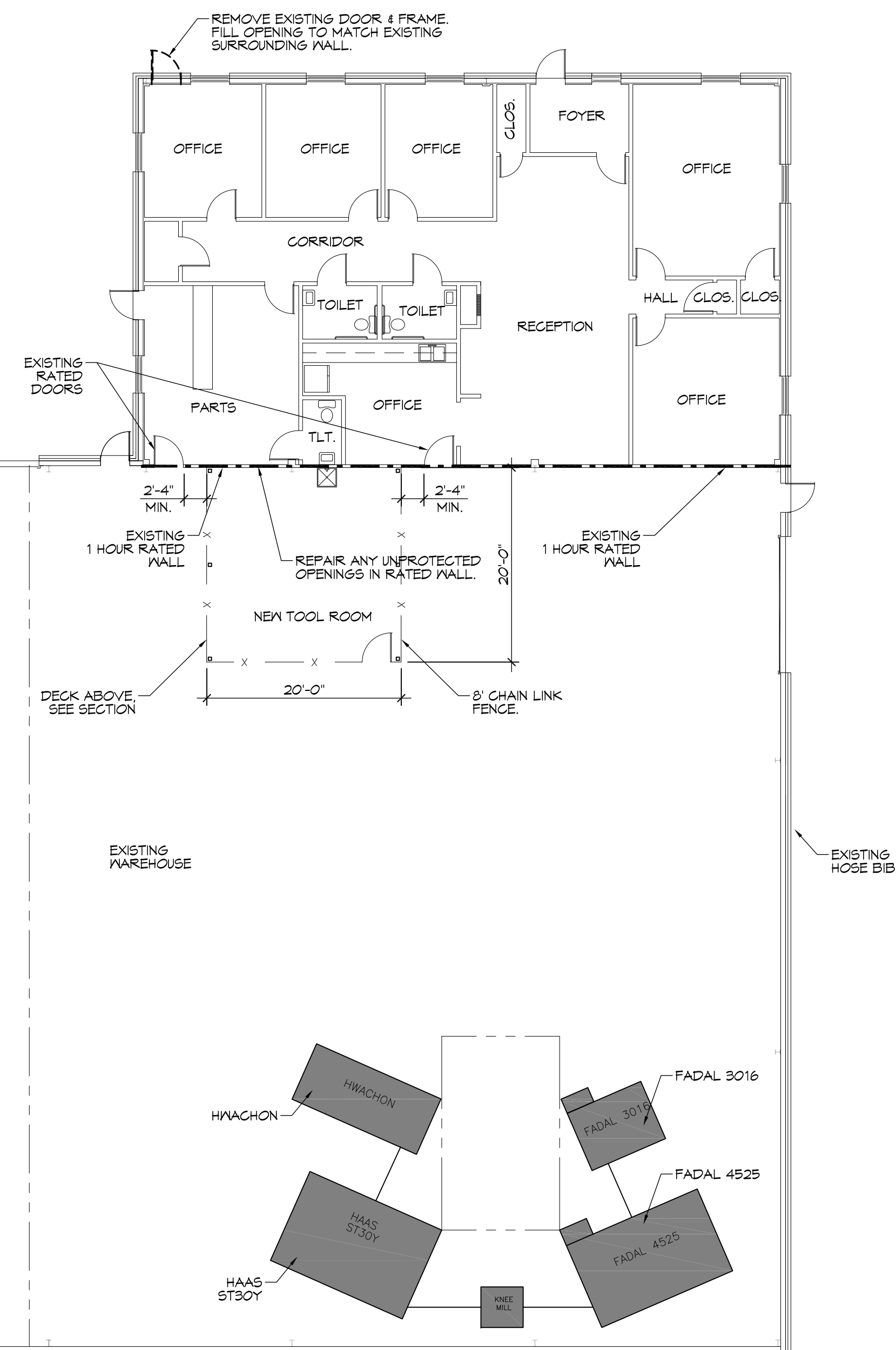


4 DETAIL
SCALE: 1/2" = 1'-0"
BASE PLATE DETAIL

COLUMN SIZE	B' (in.)	H' (in.)	T' (in.)	ANCHOR BOLT
HSS 4x4x1/8"	12	12	1/4	(4) 1/2" ANCHOR BOLT W/8" EMBEDMENT & 2" HOOK



1 FLOOR PLAN
SCALE: 3/32" = 1'-0"



REVISIONS	DATE
#	DESCRIPTION

SEAL:

RENOVATIONS AND ADDITIONS FOR
ALLIANCE LASER
60207 CAMP VILLERE ROAD
SLIDELL, LA 70460
JOB No: 22P8 | DATE: 01-11-17
DRAWN BY: JTL | CHECKED BY: CKD

SHEET TITLE:
FLOOR PLAN

DRAWING NUMBER:
A101
SHEET No: 5 of 10

LIGHTING FIXTURE SCHEDULE

EXAMPLE	LABEL	DESCRIPTION	MANUFACTURER PRODUCT #	QTY	REMARKS
	F-1	HIGH BAY LED FIXTURE	ALBEO LED LUMINAIRE ABH2-O-4-V-57-1-N-23-K-N-N	30	REPLACE EXISTING FIXTURE. RE-WIRE TO MDP.
	F-2	HIGH BAY LED FIXTURE	ALBEO LED LUMINAIRE ABH2-O-3-V-57-1-N-23-K-N-N	30	
	F-3	LED 1X4 FIXTURE	LITHONIA LBL4 LP840	2	
	F-4	EXISTING EXTERIOR LIGHT FIXTURE W/ PHOTO CELL		3	INSPECT/TEST REPAIR/REPLACE AS NECESSARY. RE-WIRE TO CLOSEST 120V PANEL.
	F-5	EXISTING EXTERIOR LIGHT FIXTURE W/ PHOTO CELL		4	INSPECT/TEST REPAIR/REPLACE AS NECESSARY. RE-WIRE TO CLOSEST 120V PANEL.
	EM-1	EMERGENCY LIGHT FIXTURE	LITHONIA LIGHTING ELM2 LED	10	WIRE TO CLOSEST 480V PANEL.
	EX-1	EXISTING EXIT LIGHT FIXTURE WITH EMERGENCY LIGHTS		3	INSPECT/TEST REPAIR/REPLACE AS NECESSARY. RE-WIRE TO CLOSEST 120V PANEL.
	EX-2	EXISTING EXIT LIGHT FIXTURE		1	INSPECT/TEST REPAIR/REPLACE AS NECESSARY.

LIGHTING NOTES

- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, AND LOCAL CODES, RULES, REGULATIONS, AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
- GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ENGINEER.
- WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICIAN SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS AND HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
- ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
- ALL CONDUCTORS SHALL BE COPPER.
- WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
- MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
- WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY AND THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
- EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF ALL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, AND 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT AND LOW VOLTAGE DIMMERS HAL BE LUTRON NOVA T-STAR.
- WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
- ALL EMERGENCY LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON AND SHALL BURN CONTINUOUSLY.
- ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS AND CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.105.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, 1/2" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE. MINIMUM 1" SCHEDULE 40 FVG FOR CONDUITS BELOW GRADE. BURY A MINIMUM OF 18" FOR NON-VEHICULAR TRAFFIC AREAS. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).

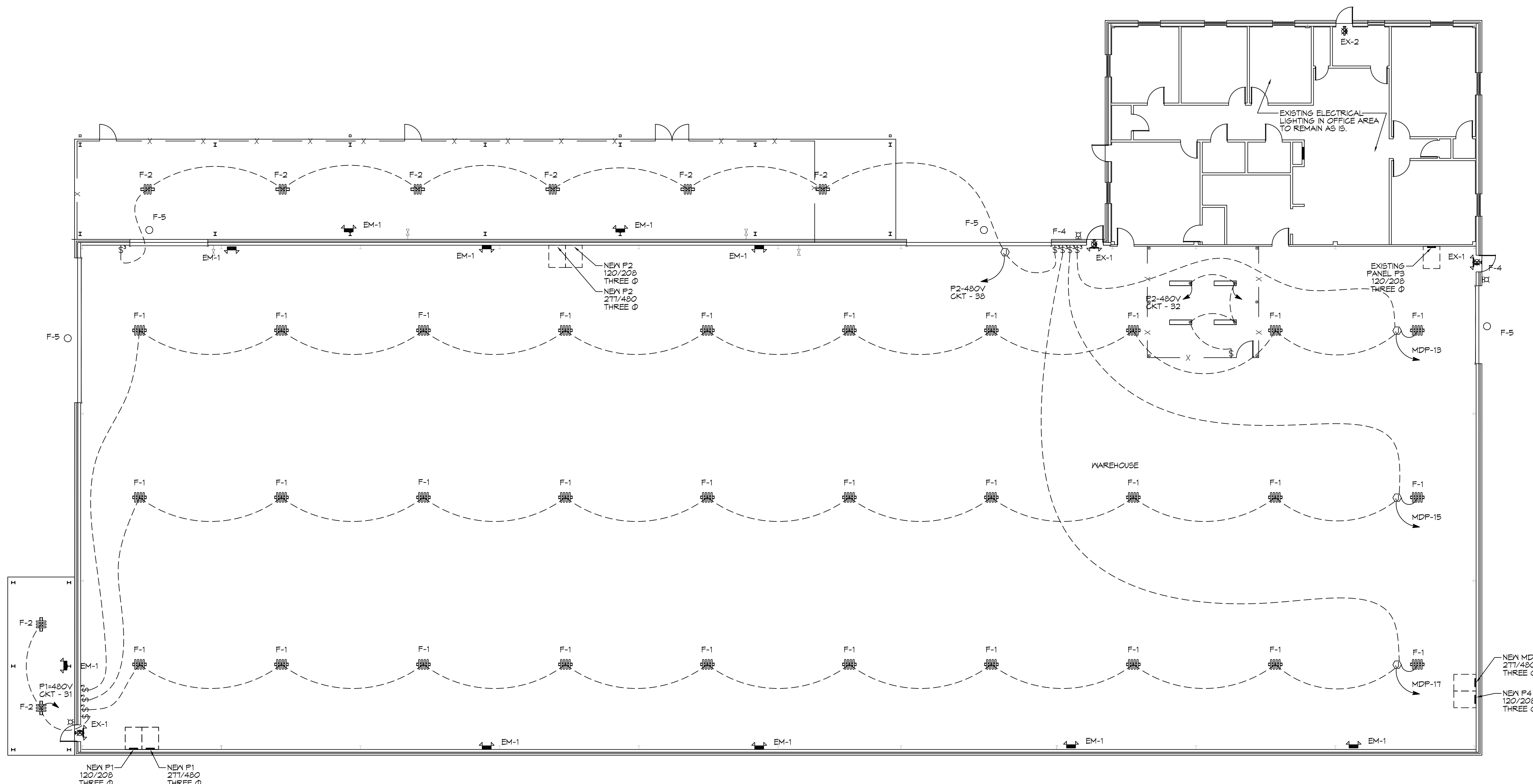
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REVISIONS	DATE	DESCRIPTION

SEAL:

RENOVATIONS AND ADDITIONS FOR
ALLIANCE LASER
60207 CAMP VILLERE ROAD
SLIDELL, LA 70460
JOB No: 22P8 DATE: 01-11-17
DRAWN BY: JTL/CPD CHECKED BY: CKD

SHEET TITLE:
ELECTRICAL LIGHTING PLAN
DRAWING NUMBER:
E102
SHEET No: 9 of 10



ELECTRICAL LIGHTING PLAN
SCALE: 3/32" = 1'-0"

