Group # 02: CON 496 -Capstone Project Presentation

A-Dale Matthews Michelle Napolitano Apiya Pompi

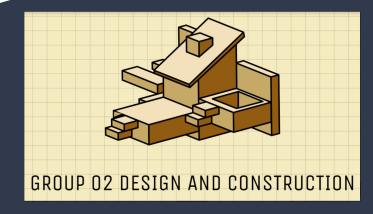


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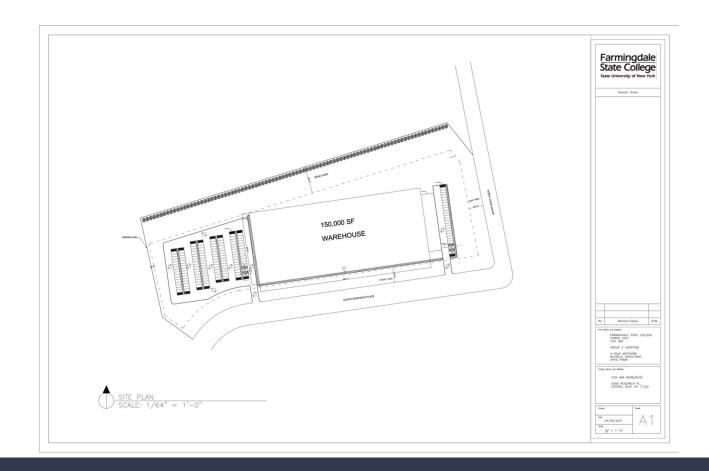
- 1:
- Drawings and Design Calculations
- 2:
- Construction Documents
- 3:
- Detail Bid Package

Location: 555 N Research Pl Central Islip NY 11722

Planned Development Research-Industrial Zone



1: Drawings & Design Calculations





Excavation of Building Footprint

Station	Existing Elevation	New Elevation	Cut Depth	Fill Depth	Weighted Value	Area	Cut Volume	Fill Volume
Corner Point	68.1	68	0.1		1	1,875	187	-
Corner Point	68.3	68	0.3		1	1,875	562	-
Corner Point	69.5	68	1.5		1	1,875	2,813	=
Corner Point	69.3	68	1.3		1	1,875	2,437	=
Exterior Point	68.24	68	0.24		2	1,875	900	=
Exterior Point	68.46	68	0.46		2	1,875	1,725	-
Exterior Point	68.43	68	0.43		2	1,875	1,613	-
Exterior Point	68.32	68	0.32		2	1,875	1,200	-
Exterior Point	69.5	68	1.5		2	1,875	5,625	-
Exterior Point	69.31	68	1.31		2	1,875	4,913	-
Exterior Point	69.15	68	1.15		2	1,875	4,313	-
Exterior Point	67.03	68		0.97	2	1,875		3,638
Exterior Point	66.05	68		1.95	2	1,875	-	7,313
Exterior Point	68.02	68	0.02		2	1,875	75	-
Exterior Point	67.2	68		0.8	2	1,875	-	3,000
Exterior Point	66.2	68		1.8	2	1,875	141	6,750
Exterior Point	67.75	68		0.25	2	1,875	-	938
Interior Point	67.16	68		0.84	4	1,875		6,300
Interior Point	67.28	68		0.72	4	1,875	-	5,400
Interior Point	67.2	68		0.8	4	1,875	-	6,000
Interior Point	67.11	68		0.89	4	1,875		6,675
Interior Point	66.12	68		1.88	4	1,875	-	14,100
Interior Point	66.26	68		1.74	4	1,875	-	13,050
Interior Point	66.33	68		1.67	4	1,875	-	12,525
Interior Point	66.29	68		1.71	4	1,875		12,825
Interior Point	68.01	68	0.01		4	1,875	75	-
Interior Point	67.92	68		0.08	4	1,875	-	600
Interior Point	67.8	68		0.2	4	1,875		1,500
Interior Point	67.68	68		0.32	4	1,875	-	2,400

Total Cut (ft3)	Total Fill (ft3)
26,438	103,013
Total Cut (CY)	Total Fill (CY)
979	3,815

Storm Water Management

Rational Method: Q = ciA

Q = flow (cfs) C = coefficient I = rainfall intensity (in/hr) A = area (acres)

Coefficient of roof and pavement = 0.9

Rainfall intensity = 2in/hr

Area of building = 150,000 SF = 3.44 Acres

Area of parking lot = 95,608 SF = 2.19 Acres

Total Area = 3.44 + 2.19 = 5.63 Acres

Q = (0.9)(2)(5.63)

Q = 10.13 cfs

Site must hold the Q for 2 hours

10.13 cfs x 7200 seconds = 72,936 cfs for 2 hours

Drywell 12' diameter (depth 2-20 ft)

Storage per VF = 113.04 cf

Ground water level 29.94 ft. Minimum 2 ft gap between drywell and water table

Drywell Depth 10' = 65 drywells (12' dia x 10')

Drywell Depth 20' = 33 drywells (12' dia x 20')

Stormwater Calculations

Waste Water Management

Septic Tank

70 employees per 8 hour shift 15 GPD per employee 70 x 15 GPD = 1,050 GPD

10' Diameter Septic Tank = 500 gal/VF 10' diameter x 5' depth = 2,500 GPD capacity

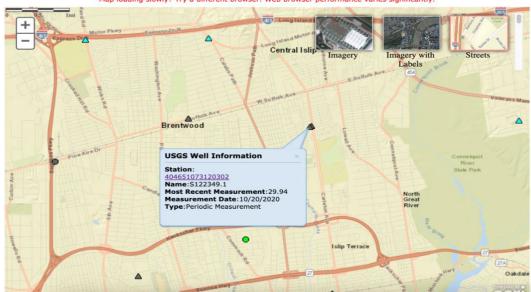
Leeching Pool

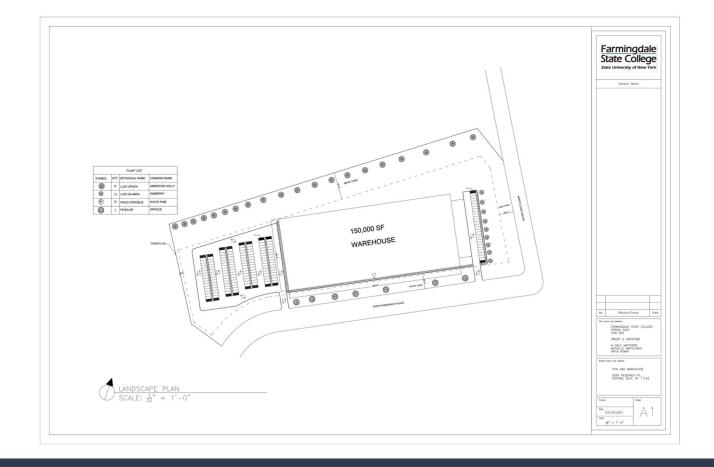
Required Leeching = 1,050 GPD Leeching Rate = 1.5 GPD/SF Sidewall Area = 1,050 GPD / (1.5 GPD/SF) = 700 SF 10' diameter leeching pool = 31.4 SF/VF 700 SF / (31.4 SF/VF) = 22.29 VF (2) 10' dia. leeching pools with 12' depth = total 24 VF

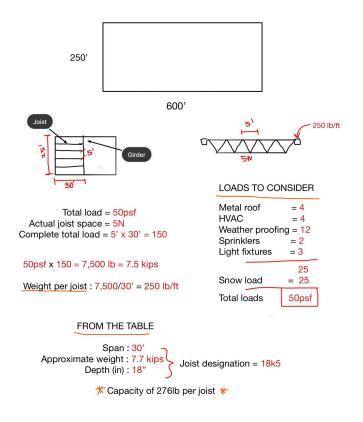
New York Active Water Level Network

Click site symbol to open information pop-up. Click Station ID in pop-up for county information and site selection.

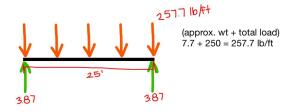
Map loading slowly? Try a different browser. Web browser performance varies significantly.







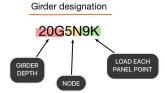
Center Joist Girder

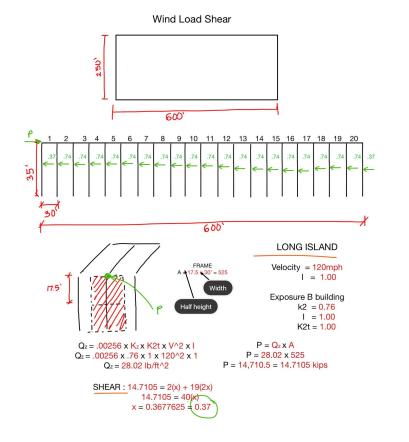


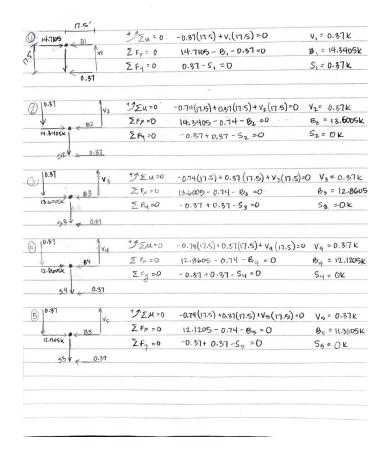
Girder point load (257.7)(30')(2) / (2)= 7,731 lb = 7.731 kips 7.731/2 = 3.87 kips

3.86 kips x 5N = 19.3219.32/2 = 9.66 kips

Joist girder depth = 20" Joist girder span = 25" Number of joist spaces = 5N@ 5' Load at each panel point = 9kips



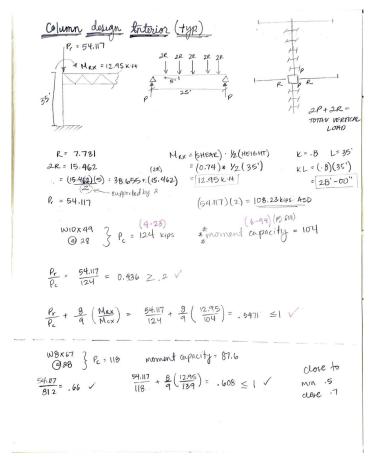


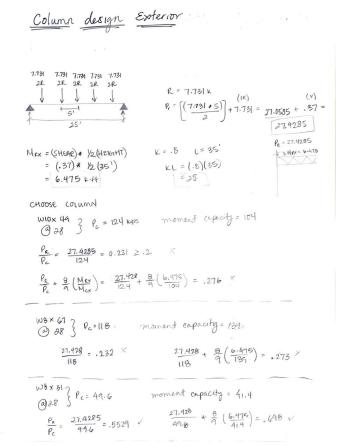


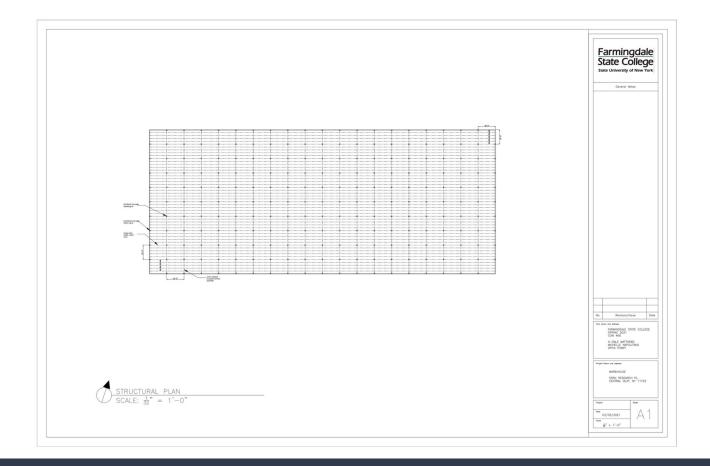
O 10.57K	↑v ₆	JZU=0	-0.74(17.5)+0.87(17.5)+4;(17.5)=0	V6= 0.37
1	B6	I Fx =0	11.3805-0.74-86=0	B6 = 10.6405L
11.3905	i i	Z Fy = 0	-0.37 + 0.37 -5 6 =0	S6= OK
Sil	0.74K	•		
D 0.37K	147	1/2 M=0	-0.74(17.5) +0.37(17.5)+V, (17.5)=0	V7 = 0.37
1	B7	Z Fx =0	10.6405-0.74-B2 =0	B1 = 9.9005K
10.6405K	e il	ZFy=0	-0.37 + 0.37 - S7 = 0	Si OK
57	0.74K			
(8) 0.37K	↑vs	1/2 M=0	-0.74(17.5)+0.37(17.5)+VB(17.5)=0	V8= 0.37
1	_ B8	Z Fx = 0	9.9005-0.74-B8 =0	B= 9.1605 k
9.9005K		Z Fy = 0	-B.37 + 0.37 - S8 = 0	So= OK
58	€ 0.74K			
1) 0.37K	- Tv9	1) EU =0	-0.74 (17.5) + 0.87 (17.5) + Va (17.5)=0	Vq= 0.37
	89	Z Fx =0	9.1605-0.74-B9 =0	Bq = 8.42051
9.1605K		2 Fy=0	-0.31 + 0.37 - S9 = 0	Sq= OK
59↓	0.74K	v		
0.37K	1 V1D	12 EM=0	-0.74(17.5)+0.37(17.5)+V10(17.5)=0	V ₁₀ = 0.37
1	Pup	2 Fx =0	8.4205 - 0.74 - B10 =0	B10=7.68056
8.4025K	12.14	Z Fy =0	-0.37 + 0.37 - Sio = 0	S10 = OK
5 (0 V	0.74K			

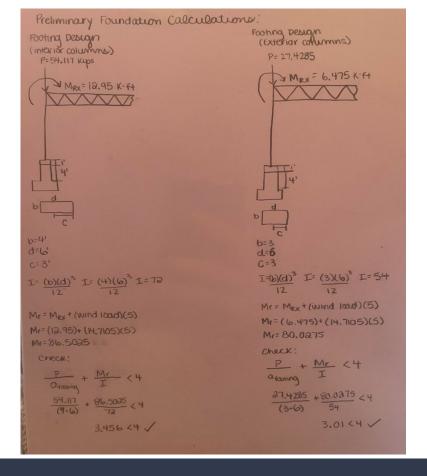
(11)	0.37K	Tvu	12 x =0	-0.74(17.5)+0.37(17.5)+V,1(17.5)=0	V11 = 0.37k
	1	B.,	ZFx =0	7.6805-0.74-B1 =0	Bu = 6.9405
	7.68052		ZFy=0	-0.37 +0.37 -Su =0	Su = 04
	511	0.74K			1,0,1
2)	0.37K	↑ V ₁₂	+9 E M = 0	-0.74(17.5)+0.37(17.5)+V12(17.5)=0	V12= 0.57K
,	,	B12	ZFx=0	6,9405-0.74-B12=D	B,2=6.2005K
6	9405K		ZFy=0	$-0.37 + 0.37 = S_{12} = 0$	S12 = OK
		0.74K			
3	0.37K	1 1/15	DEM=0	-0.74(17.5)+6.37(17.5)+V13(17.5)=0	V13= 0.37K
		Bis	ZFx=0	6.2005-0.74-B13=0	B15=5.4605K
(5.2005K		Z Fy = 0	-0.37 + 0.37 - S13 = 0	S13= OK
	S13 V	0.74K			
19	0.57K	V14	*JZM=0	- 0.74 (17.5)+0.57 (17.5)+V,4(17.5)=0	V14= 0.37K
	1	B14	Z Fx = 0	5.4605 - 0.74 - Bix = 0	Bif = 4.72051
	B.4605 K		ZFy=0	-0.37 + 0.37 - S,4 = D	S14= OK
,	5141	0.74K			
(5)	0.37K	Vis	DEU30	-0.74(17.5)+0.87(17.5)+V15 (17.5)=0	V15 0.37K
1		Bis	ZFx=0	4.7205-0.74-Bis =0	B15= 3.9805
4	.7205		Z Fy=0	-0.37 + 0.37 -S, 5 =0	S15 = OK
	SIA	0.74K			
				7	

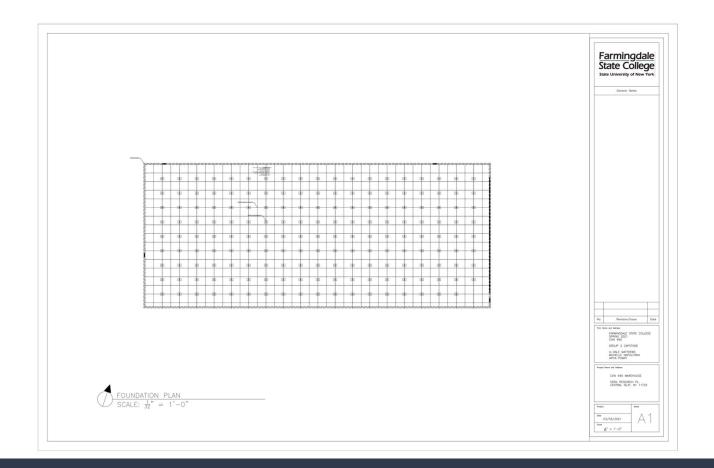
0.31×	***			
[]	1016	1/2 M=0	-0.74(17.5)+0.37(17.5)+V4 (17.5)=0	V14 = 0.37K
	Bu	ZFx=0	3.9805-0.74 -Blb	Bis = 3,2409
3.9805K		E Fy = 0	-0.37 + 0.37 - S16 =0	S16 = OK
Sie	0.74K		*	5
7 10.57K	V17	+12 M=0	-0.74(17.5) + 0.37(17.5)+ V17(17.5)=0	V11 = 0.37K
1	617	Z Fx = 0	3.2405 - 0.74 - Biz	B17 = 2.5005
3.2405k		EF4=0	-0.37 +0.37-S17 =0	Si7 = OK
snv	6.74K			
0.37K	V_{18}	* Zu=0	-0.74(17.5)+0.37(17.5)+V18(17.5)=0	V18 = 0.37K
1	818	ZFx=0	2,5005-0.74-B18	B18 = 1.7605
1.5005K		ZFy=D	-0.37 + 0.37 -S18 = 0	S18 = OK
210	e_0.14k			
D 0.37K	TV19	JEN=0	-0.74(17.5)+0.37(17.5)+V,a(17.5)=0	V19 = 0.37K
1	B19	Z Fx = 0	1.7605-0.74-819	B19 = 1.0205
1.76092		E Fy =0	-0.37 + 0.37 - Sig =D	S19 = OK
Sin	0.74K		, xt =	
9 0.37K		ZFy=0	- 0.37 -V ₂₀ = 0	V= 0.37K
1.09K > 0	· !			

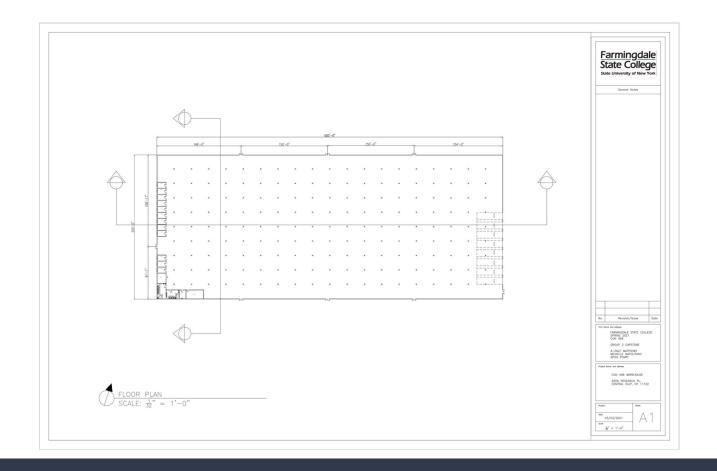


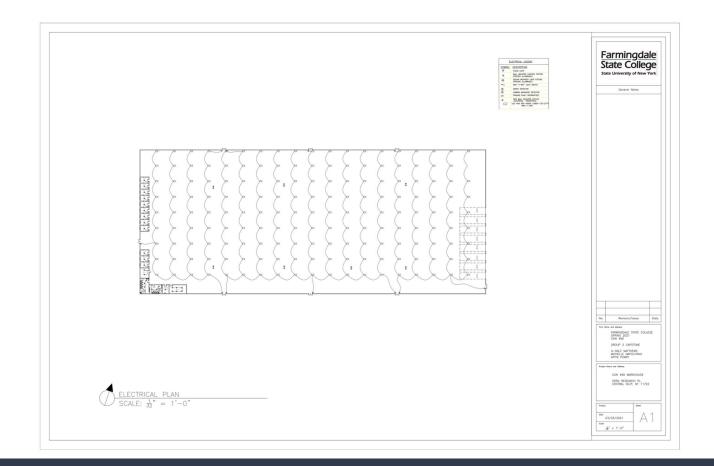










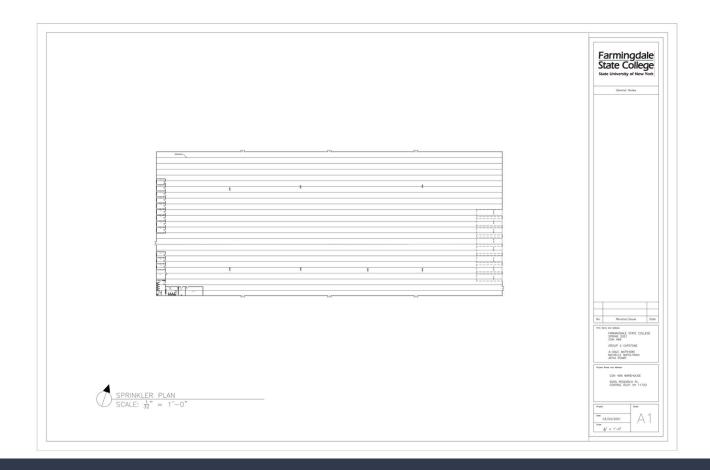


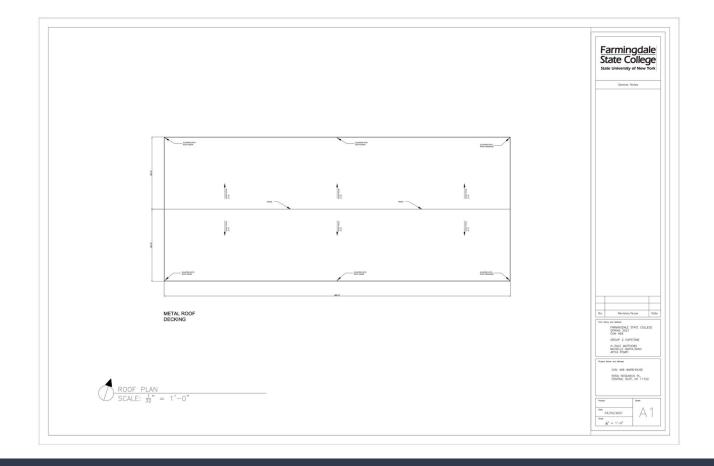


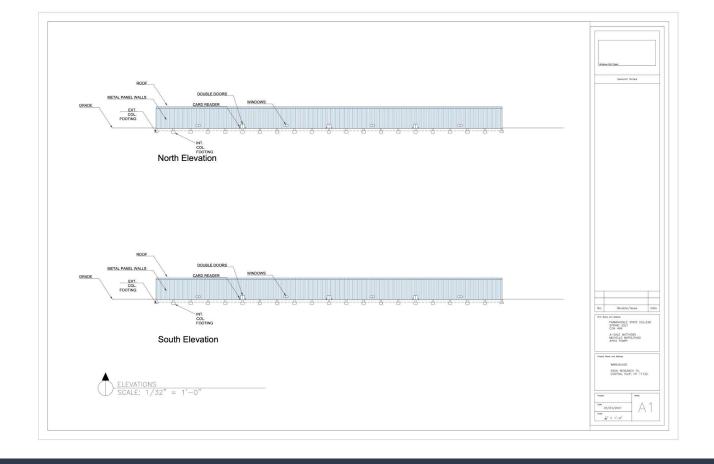
Early Suppression, Fast Response Sprinkler Head is the recommended sprinkler system for warehouses.

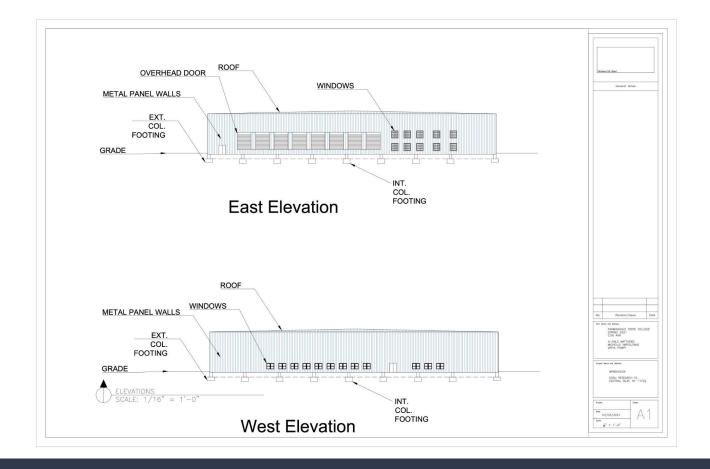
International Building Code requires a sprinkler for any warehouse with an area exceeding 9000 SQ ft.

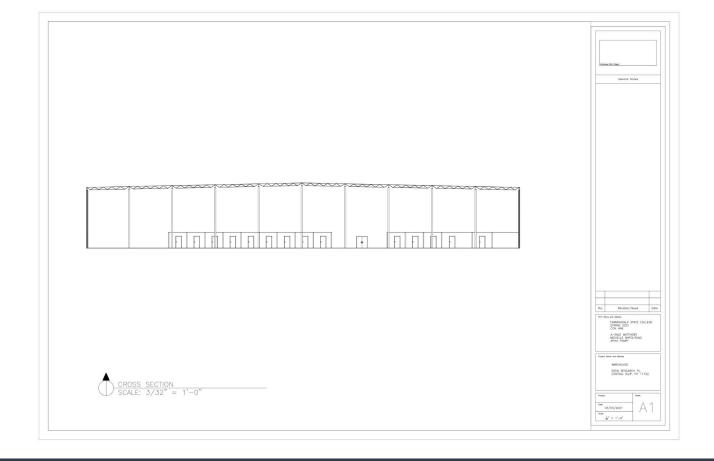
The sprinklers run along the warehouse and encompass areas that do not exceed 9000 SQ ft.











HVAC



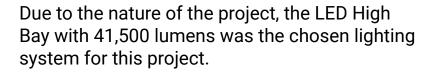
Due to the nature of the project, the Modine Explosion Proof Unit Heater was the chosen HVAC system for this project.

These Unit Heaters are specifically designed to be used in hazardous industrial environments and provide minimal risks to those that utilize them.

They are electric and can be moved to avoid becoming hazards themselves.

Electrical - Warehouse

41,500 Lumens - LED High Bay - 1000W MH Equal - 4000K - 120-277V

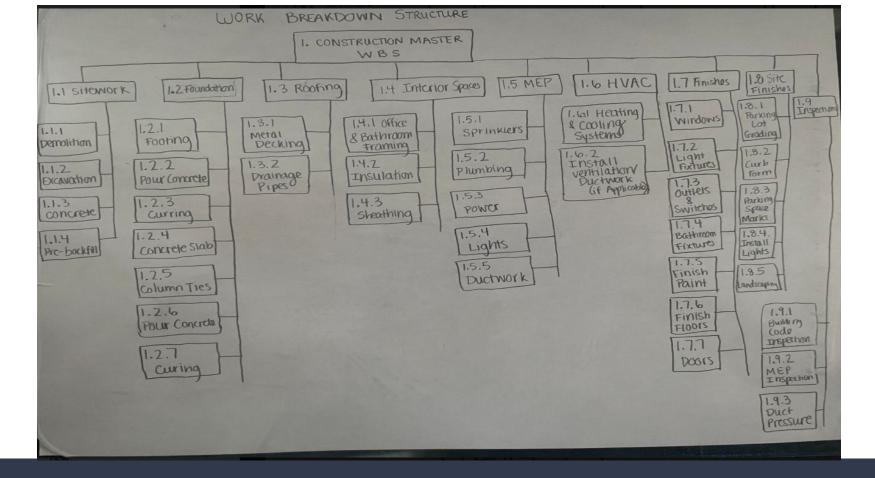


This being a 150,000 SF warehouse with 35 ft ceilings, approximately 6,747,723 lumens were needed.

6,747,723 / 41,500 = 163 LED High Bays



2. Construction Documents



1	Mon 8/3	Start 0/21					Add ta
	0	Ta Mc▼	Task Name	Duration •	Start +	Finish +	Predecessors
1		*	△ Site	217 days	Mon 8/30/21	Tue 6/28/22	
2		-	Demolition	15 days	Mon 8/30/21	Fri 9/17/21	
3		-	Excavation	10 days	Mon 8/30/21	Fri 9/10/21	
4		-	Concrete	15 days	Mon 9/20/21	Fri 10/8/21	2
5			Pre backfill	8 days	Mon 9/20/21	Wed 9/29/21	2,3
6			4 Building	194 days	Thu 9/30/21	Tue 6/28/22	5
7			▶ Foundation	59 days	Thu 9/30/21	Tue 12/21/21	5
15		-	▶ Roofing	20 days	Wed 12/22/2	Tue 1/18/22	7
18			▶ Interior Spaces	12 days	Wed 1/19/22	Thu 2/3/22	15
22		-	▶ MEP	72 days	Fri 2/4/22	Mon 5/16/22	21
28		-	▶ HVAC	15 days	Tue 5/17/22	Mon 6/6/22	27
31			▶ Finishes	26 days	Tue 5/24/22	Tue 6/28/22	20
39			△ Site Finishes	49 days	Wed 6/29/22	Mon 9/5/22	38
40			Parking Lot Grading	20 days	Wed 6/29/22	Tue 7/26/22	38
41		-	Curb Form	5 days	Wed 7/27/22	Tue 8/2/22	40
42			Parking space markings	4 days	Wed 8/3/22	Mon 8/8/22	41
43			Install Lighting Lamps	15 days	Tue 8/9/22	Mon 8/29/22	42
44		-	Landscaping	5 days	Tue 8/30/22	Mon 9/5/22	43
45			△ Inspections	40 days	Tue 9/6/22	Mon 10/31/2	44
46			Building code Reg	10 days	Tue 9/6/22	Mon 9/19/22	44
47			MEP Inspection	20 days	Tue 9/20/22	Mon 10/17/22	46
48		=	Duct Pressure	10 days	Tue 10/18/22	Mon 10/31/22	47
49		-	▷ Closeout	4 days	Tue 11/1/22	Fri 11/4/22	48

REQUEST FOR PROPOSAL CON 496 WAREHOUSE PROJECT

DATE: MAY 12 2021

SUBJECT: Request for Proposal (RFP) for Construction

PROJECT ADDRESS: Warehouse

555 N Research Pl Central Islip, NY 11752

You are invited to submit a proposal for the above referenced project to Group 02 Design and Construction "Owner's Representative" at Lupton Hall, Farmingdale State College, Farmingdale, NY 11735. It is requested that you submit four (4) sealed copies of your proposal by mail or personal delivery to the address listed above no later than 5:00 PM, Friday May 21, 2021, Any proposals received after that date and time will not be accepted.

DESCRIPTION OF PROJECT:

The Scope of work for this project will consist of:

Insert Scope of Work depending upon what section the proposal is being requested for

NOTE:

A mandatory job walkthrough is required before submission of a proposal.

To schedule a job walkthrough please contact Owner's Representative, attention A-Dale Matthews, Michelle Napolitano, or Apiya Pompi at (631)-668-7325. Additional questions for a complete understanding of the scope of work can be directed to the Owner's Representatives.

PROJECT DOCUMENTS:

The following are intended for use on this project and are enclosed:

- Project Drawings
- Project Specifications

Contract Documents will be sent upon acceptance of Proposal.

Division	Subcontractor	RFI#	Subject	Question	Date Submitted	Response	Response Date
01 General Requirements							
02 Existing Conditions							
03 Concrete							
05 Metals							
07 Thermal and Moisture Protection							
08 Openings							
09 Finishes							
10 Specialties							
11 Equipment							
12 Furnishings							
21 Fire Suppression							
22 Plumbing							
23 Heating, Ventilation, and Air Conditioning							
26 Electrical							
28 Electronic Safety and Security							
31 Earthwork							
32 Exterior Improvements							
46 Waste and Wastewater Equipment							

3. Detail Bid Package



Invitation to Bid

Bid Due Date: May 21, 2021

Project Information: CON 496 Warehouse Project

555 N Research Pl, Central Islip, NY 11735

Project Description: Construction of a 150,000 SQ. FT warehouse in the Planned

Development Research-Industrial Zone of Central Islip. All construction divisions are encouraged to bid. The building consists of structural steel framing and metal panels on a concrete slab. Interiors consist of office build-out as well as mechanical, electrical, plumbing, fire suppression system, and security.

Submission of Bids: Group 02 Design and Construction

Lupton Hall

Farmingdale State College Farmingdale, NY 11735

Approximate Start Date: August 30, 2021 / Specified Duration: 300 Days

Budget Estimate: \$TBD

Bid Documents:

 Plans, Specifications, and bid documents may be obtained from Group 02 Design and Construction's Office.

Bid Instructions:

- Subcontractor submission of bid proposal shows intent to enter Group 02 Design and Construction's Subcontract Agreement, as well as adhere to Group 02 Design and Construction's insurance and payment process requirements.
- Pricing is to be provided as per plans and specifications. Bid price is to be broken out by specific specification section.
- Bids may not be modified, withdrawn, or canceled by bidder after receipt by Group 02 Design and Construction.

Questions pertaining to the bid may be directed as follows:

- · Project specific questions Apiya Pompi
- · Plan specific questions A-Dale Matthews
- · Specification specific questions Michelle Napolitano

Please complete information below and return to Group 02 Design and Construction:

Company Name:		Estimator Contact:	
Phone:		Email:	
Bidding?	YES	NO	

CONTRACTOR'S BID BREAKDOWN FORM

Title :	Grou	p #2 Wa	rehouse												Based o	n
Location:	Ware	house					Estimated	Ву:	Contrac	tor					% De	sign
Project #:	Grou	p #2					Date:		4/11/20						Sheet: 4 o	of 27
ITEM				PRIME CONTRACTOR						CONTRA				500000	TAL	
DESCRIPTION	QUA	NTITY	MA	TERIAL		LABO	ĸ	EQUIPT	MA ⁻	TERIAL		LABO)K	EQUIPT	C	OST
	#	Unit	Unit	Total	Unit	мн	Total	Total	Unit	Total	Unit	мн	Total	Total	Unit	Total
Div.1-Gen. Req.	4															
			0.00	0.00	0.00	0.00	0.00			0.00			0.00	0.00	#DIV/0!	0.00
	0		0.00	0.00	0.00	0.00	0.00			0.00			0.00	0.00	#DIV/0!	0.00
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				0.00			0.00			0.00			0.00	0.00	#DIV/0!	0.00
				0.00			0.00			0.00			0.00	0.00	#DIV/0!	0.00
				0.00			0.00			0.00			0.00	0.00	#DIV/0!	0.00
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				0.00			0.00			0.00			0.00	0.00	#DIV/0!	0.00
SUBTOTAL				0.00		0.00	0.00	0.00		0.00		0.00	0.00	0.00	#DIV/0!	0.00

Slab on Grade

Perimeter	1700	FT
Area of Slab	150000	SF
Depth of Slab	4	IN

Length of WWF	150	FT	
Width of WWF	5	FT	

FORMWORK									
Perimeter of Slab	1700	FT							
Perimeter of Walkways	1256	FT							
Height	4	IN							
Total 985.333 SF									
Total formwork 984 sq. ft									

CONCRETE					
Volume of Slab	50000	FT			
Volume of Slab	1851.85	CY			
Walkways & Sidewalks	145	CY			
1,997 CY of concrete					

Welded Wire Fabric (WWF)					
Area of Slab	150000	SF			
Area of WWF Panel	750	SF			
# of Rolls	200	Rolls			
200 (5ft x 150ft) 6x6 W1.4 x W1.4 WWF					

Asphalt					
	7,468	SF			
	4,680	SF			
	5,580	SF			
	7,036	SF			
	57,256	SF			
Total	82,020	SF			
Thickness	4	IN			
	27,340	CF			
Conversion	148	PCF			
	4,046,320	LBS			
	2,023	TONS			

Plant List							
Botanical Name	Common Name	Qty	Price	Total			
Llex Opaca	American Holly (3 Gal.)	9	101.95	917.55			
llex Glabra	Inkberry (5 Gal.)	17	105.99	1,801.83			
Pinus Strobus	White Pine	12	99.95	1,199.40			
Picea SP	Spruce	7	89.95	629.65			
Grand Total							

Standard Form of Agreement Between Owner and Contractor where the basis of payment is a Stipulated Sum

AGREEMENT made as of the day of twenty - one May in the year two-thousand twenty-one

BETWEEN the Owner:

Amit Bandyopadhyay, Ph.D. P. E.
SUNY Distinguished Service Professor
Fellow, American Society of Civil Engineers
Director, Green Building Institute
Architecture and Construction Management
State University of New York -Farmingdale State College
Farmingdale, NY 11735

and the Contractor:

Group 2 Design and Construction Lupton Hall 2350 Broadhollow Rd, Farmingdale, NY 11735

for the following Project:

Warehouse 555N Research PI Central Islip, NY 11722

The Architect:

Group 2 Design and Construction Lupton Hall 2350 Broadhollow Rd, Farmingdale, NY 11735

The Owner and Contractor agree as follows.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

The parties, should complete A101*-2017, Exhibit A, flaurance and Bonds, contain paraneously withitis Agreement.

AlA Document A201 12-2017, General Conditions of the Contract for Construction, is adopted in this document by reference. Do not use with other general conditions unless this document is modified.

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AIA Document A201 - 2017

General Conditions of the Contract for Construction

for the following PROJECT:

(Name and location or address) CON 496 Warehouse 555 N Research Pl Central Islip, NY 11752

THE OWNER:

(Name, legal status and address) Dr. Amit Bandyopadhyay Farmingdale State College Farmingdale NY, 11735

THE ARCHITECT:

(Name, legal <u>status</u> and address) Group 02 Design and Construction Farmingdale State College Farmingdale NY, 11735

TABLE OF ARTICLES

GENERAL PROVISIONS

- 2 OWNER
- CONTRACTOR
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- 12 UNCOVERING AND CORRECTION OF WORK
- 13 MISCELLANEOUS PROVISIONS
- 14 TERMINATION OR SUSPENSION OF THE CONTRACT
- 5 CLAIMS AND DISPUTES

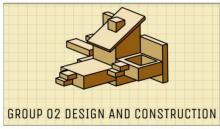
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For guidance in modifying this document to include supplementary conditions, see AJA Document A503™, Guide for Supplementary Conditions.

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Red Flag Clauses:

- The Contractor must notify the Owner within 14 days of discovering an error in the drawings or specifications with the in-field conditions.
- The Contractor must notify the Owner within 21 days of a delay.
- The Contractor must notify the Owner prior to starting work of an additional claim in regards to that portion of work.



CONTRACT SPECIFICATIONS

CENTRAL ISLIP PLANNED DEVELOPMENT RESEARCH-INDUSTRIAL ZONE

WAREHOUSE 555 N RESEARCH PL CENTRAL ISLIP, NEW YORK 11722

Project No:

CON 496 - FINAL PROJECT

Contract G – General Construction and Site Work

Contract H - Heating, Ventilation and Air-Conditioning Work Contract P - Plumbing Work

Contract E - Electrical and Fire Alarm Work

Final Bid Specification April 2021 The Divisions being used on this project are:

01 - General Requirements

02 - Existing Conditions

03 - Concrete

05 - Metals

07 - Thermal and Moisture Protections

08 - Openings

09 - Finishes

10 - Specialties

11 - Equipments

12 - Furnishings

21 - Fire Suppression

22 - Plumbing

23 - Heating, Ventilation, and Air-Conditioning

26 - Electrical

28 - Electronic Safety and Security

31 - Earthworks

32 - Exterior Improvements

46 - Waste and Wastewater Equipment

Specifications

Remaining Items:

- Finalizing the Drawings
- Finalizing the Specifications
- Finalizing the Schedule
- Finalizing the Estimate
- Finalizing the Work Breakdown Structure

Thank you for your time! Any Questions?