



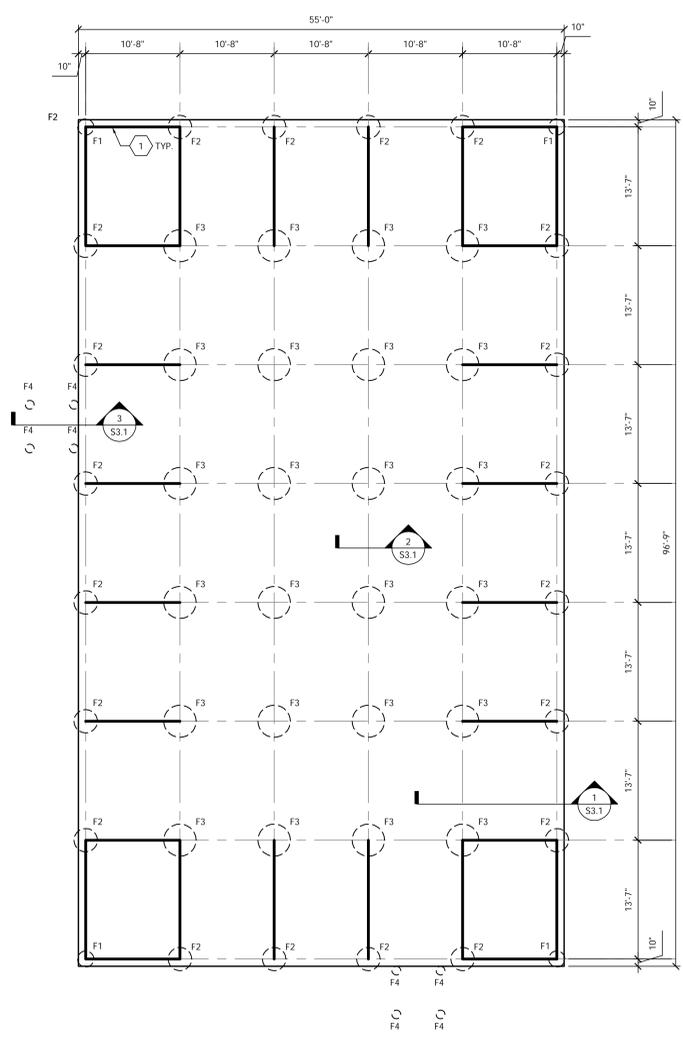
**FOUNDATION NOTES**

- REFER TO SHEET S0.1 FOR GENERAL NOTES AND SPECIFICATIONS.
- REFER TO SHEET S3.1 FOR TYPICAL FOUNDATION DETAILS.
- B.O.F. = MIN. 4'-0" BELOW GRADE.
- FOUNDATION SIZES AND SPACING BASED UPON ASSUMED REACTIONS. SIZE AND SPACING OF FOUNDATIONS TO BE VERIFIED BY ENGINEER PRIOR TO CONSTRUCTION.

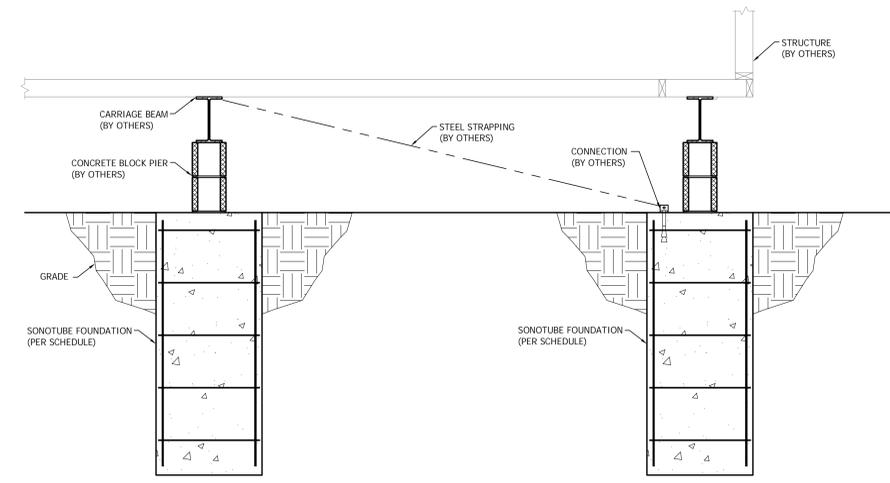
**KEYNOTES**

- LATERAL BRACING BY OTHERS.

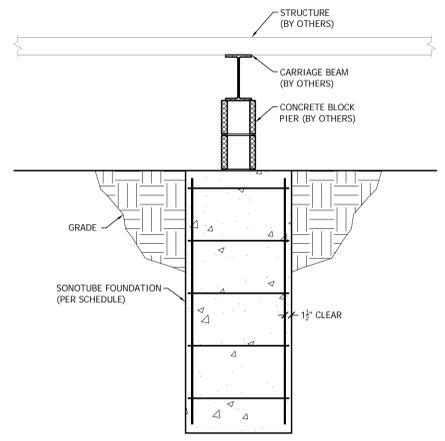
SONOTUBE FOUNDATION SCHEDULE			
MARK	DIAMETER	REINF.	TRANS.
F1	22"φ	(6) #5	#3 BARS @ 10" O.C.
F2	32"φ	(10) #5	#3 BARS @ 10" O.C.
F3	44"φ	(14) #6	#3 BARS @ 12" O.C.
F4	12"φ	(4) #4	#3 BARS @ 8" O.C.



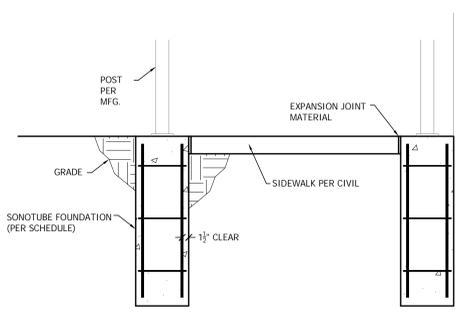
1 FOUNDATION PLAN  
0 4' 8' 16'



1 SONOTUBE FOUNDATION  
NO SCALE



2 SONOTUBE FOUNDATION  
NO SCALE



3 SONOTUBE FOUNDATION  
NO SCALE

100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

NO.	REVISION	DATE

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STAMP/REAL

DATE: 03.15.2016

REG. NO. 44108

BY: A. NICHOLSON, PE

DRAWING TITLE  
FOUNDATION PLAN

PROJECT TITLE  
OPTOMETRY TRAILER

DATE: 03.15.2016

PROJECT NO.  
656-15-267

ISSUED BY: JAN

DRAWN BY: JPS

CHECKED BY: [Signature]

DATE: 03.15.2016

REG. NO. 44108

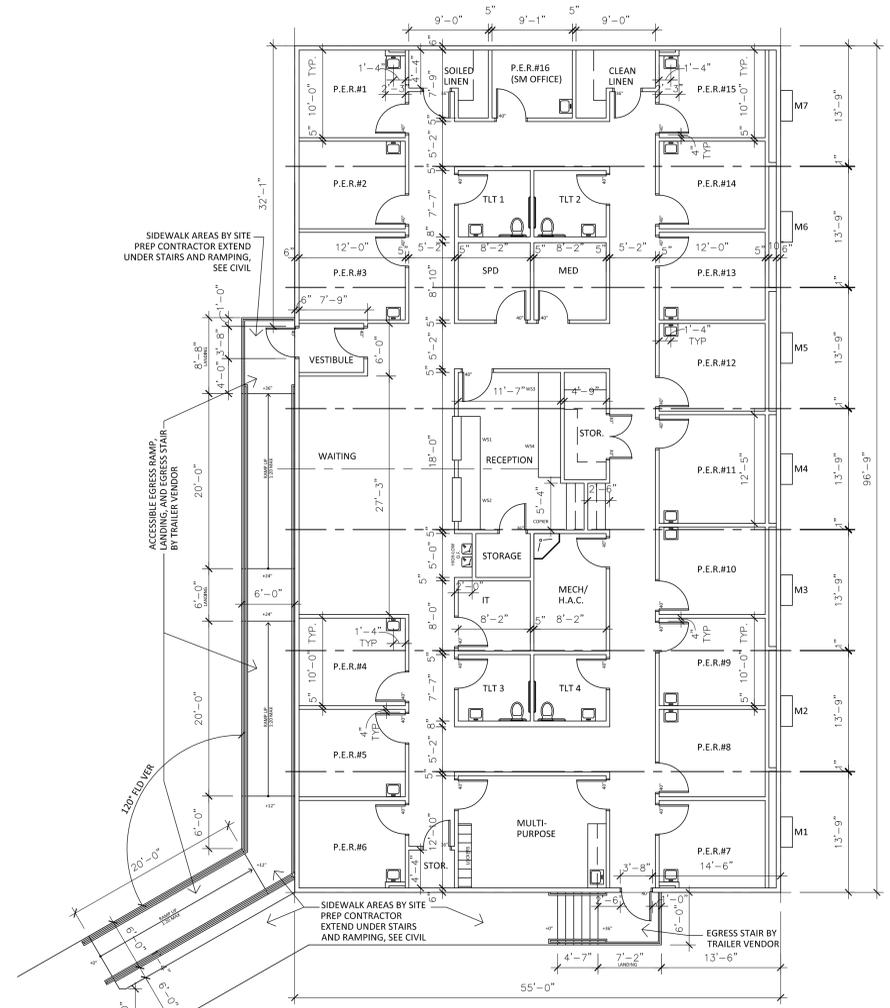
BY: A. NICHOLSON, PE

LOCATION  
VA MEDICAL CENTER  
ST. CLOUD, MN 56308

DRAWING NO.  
S11

**St. Cloud VA**  
Health Care System  
Brainerd | Montevideo | Alexandria

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot



**1 MODULAR BUILDING PLAN**  
**AS1 SCALE = 1/8" = 1'-0"**  
 (FOR REFERENCE ONLY)

- NOTES:**
- 1) TRAILER MODULES PROVIDED AND INSTALLED BY TRAILER VENDOR OVER PREPPED BUILDING SITE.
  - 2) STAIR AND RAMP ACCESS TO MODULAR BUILDING TO BE PROVIDED AND INSTALLED BY TRAILER VENDOR.

100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

NO	REVISION	DATE

VA FORM 08-6231

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 UNDER THE LAWS OF THE STATE OF  
 MINNESOTA

DANIEL J. MILLER, AIA  
 REG. NO. 45619  
 DATE: 03-15-2016

DRAWING TITLE  
 MODULAR BUILDING PLAN  
 (FOR REFERENCE ONLY)

PROJECT TITLE  
 OPTOMETRY TRAILER  
 SITE PREP

DATE  
 03/15/2016

PROJECT NO.  
 656-15-267

BUILDING NO.  
 ---

CHECKED BY  
 D.J.M.

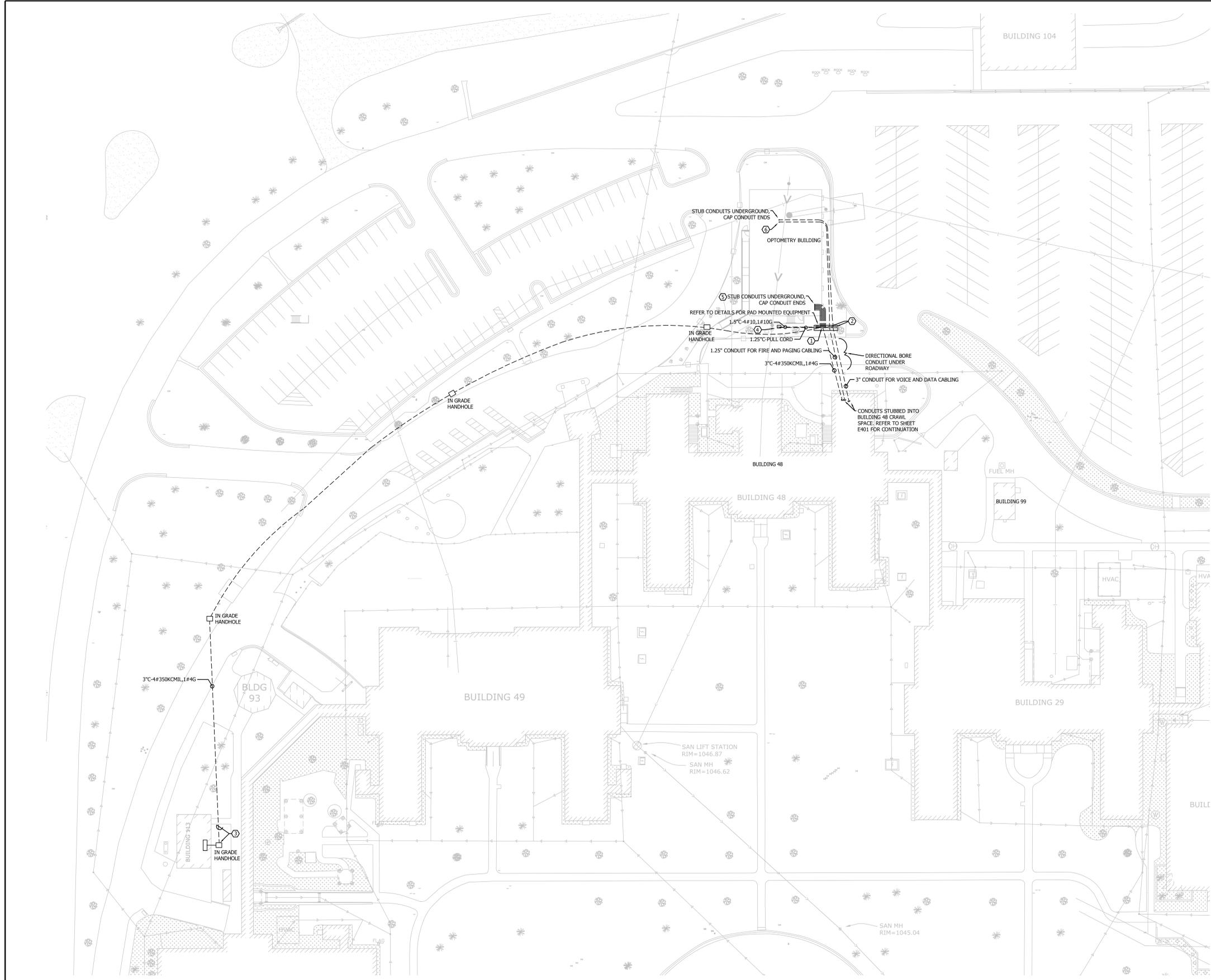
DRAWN BY  
 A.L.W.

LOCATION  
 VIA MEDICAL CENTER  
 ST. CLOUD, MN 56309

VAMC SAINT CLOUD MN



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 one and one half inches = one foot  
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 three quarters inch = one foot  
 one half inch = one foot  
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- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL POWER OUTAGES WITH THE COR.
  - ALL SURFACES DISTURBED DUE TO NEW INSTALLATIONS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
  - THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY ALL EXACT REQUIREMENTS TO INCLUDE IN THE BID PRIOR TO BID.
  - DIRECTIONAL BORE CONDUIT UNDER CONCRETE SIDEWALKS AND ASPHALT DRIVES THROUGH OUT. PATCH ALL TRENCHING TO MATCH EXISTING OR BETTER.

- KEYNOTES:**
- OPTOMETRY BUILDING MAIN DISTRIBUTION PANEL MAIN-OP.
  - TECHNOLOGY CABLING CABINET AND TELECOM CABINET. CONTRACTOR MAY SPLICE TECHNOLOGY CONDUCTORS IN THE CABINET. PROVIDE TERMINAL BLOCKS, PUNCH DOWNS, 110 BLOCKS OR PATCH PANELS FOR SPLICES. COIL EXTRA CONDUCTOR LENGTH IN THE CABINET.
  - INTERCEPT EXISTING UNDER GROUND SPARE CONDUIT WHICH RUNS BETWEEN 480V SWITCHGEAR MSB-1 AND STEAM TUNNEL. REFER TO DRAWING ES01 FOR ADDITIONAL INFORMATION.
  - ADD RECEPTACLE TO LIFT STATION CONTROL PANEL POST.
  - PROVIDE TRACER WIRE IN 1 CONDUIT FROM END POINT TO PANEL BOARD TO ALLOW FUTURE LOCATION OF CONDUIT. PROVIDE A PULL WIRE IN EACH CONDUIT.
  - TERMINATE CONDUIT UNDER PROPOSED IT ROOM LOCATION. PROVIDE TRACER WIRE IN 1 CONDUIT FROM END POINT TO PANEL BOARD TO ALLOW FUTURE LOCATION OF CONDUIT. PROVIDE A PULL WIRE IN EACH CONDUIT.

**1 ELECTRICAL - SITE PLAN**  
 0 15' 30' 60'

100% CONSTRUCTION DOCUMENTS - FOR CONSTRUCTION

No.	REVISION	DATE

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 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290  
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 AMON R. MUELLER, PE REG. NO. MN 45184  
 DATE: 03.15.2016

**DRAWING TITLE:** ELECTRICAL - SITE PLAN

**PROJECT TITLE:** OPTOMETRY TRAILER  
**BUILDING NO.:** 48  
**CHECKED BY:** ARM  
**DATE:** 03.15.2016

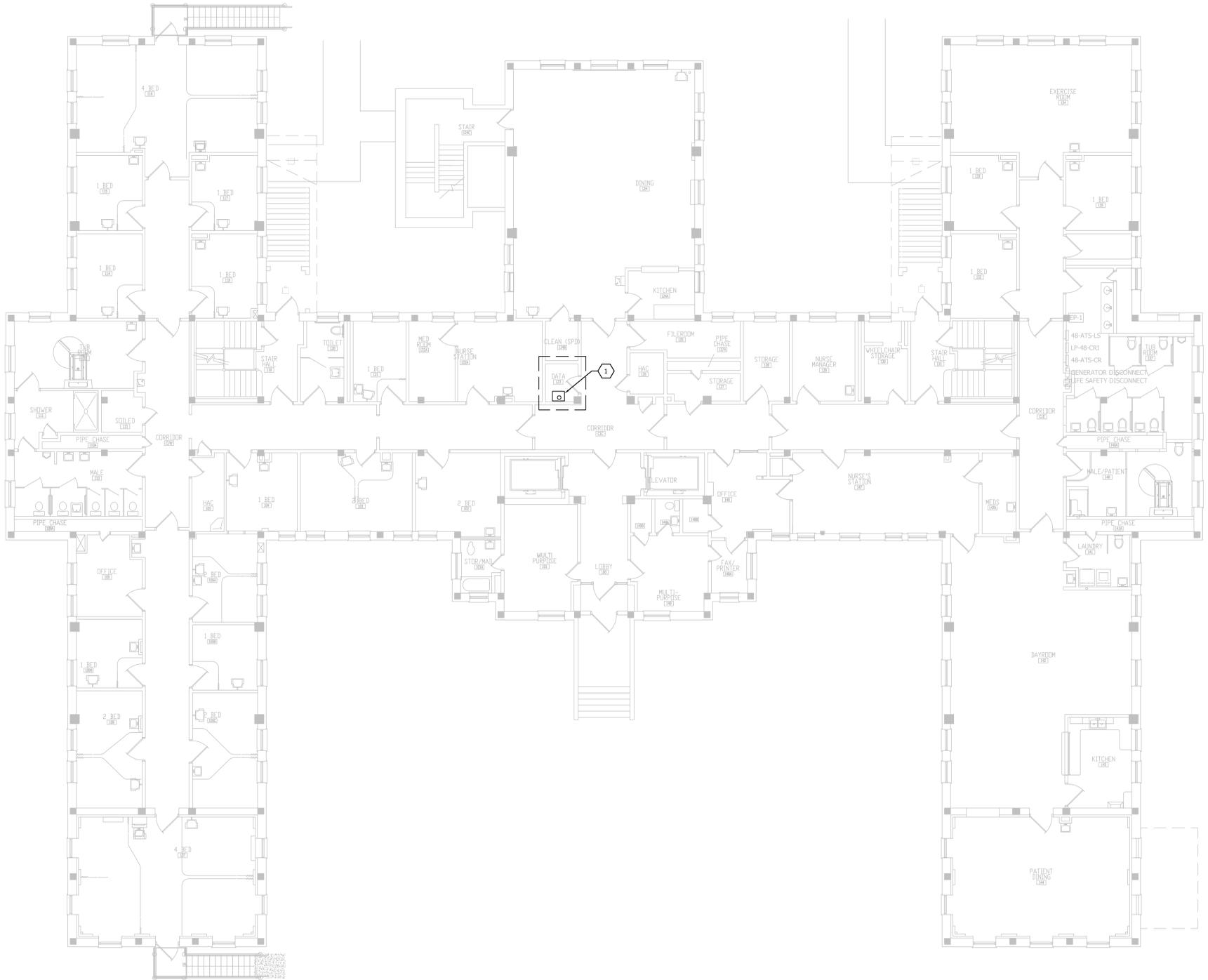
**DATE:** 03.15.2016  
**PROJECT NO.:** 656-15-267  
**CAD FILE:**  
**DRAWING NO.:** E201

**St. Cloud VA Health Care System**  
 Brainerd | Montevideo | Alexandria



**KEYNOTES:**  
 1. RUN 3" CONDUIT FROM CRAWL SPACE UP TO TELECOM ROOM. ROUTE 50 PAIR COPPER TELEPHONE CABLE, AND A 6 PAIR SINGLE MODE FIBER IN THE CONDUIT TO THE PAD MOUNT OPTOMETRY BUILDING TELEPHONE AND DATA CABINET.

**GENERAL NOTES:**  
 1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO DETERMINE ALL EXACT REQUIREMENTS TO BE INCLUDED IN THE BID.



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**ELECTRICAL PLAN - BUILDING 48 FIRST FLOOR**



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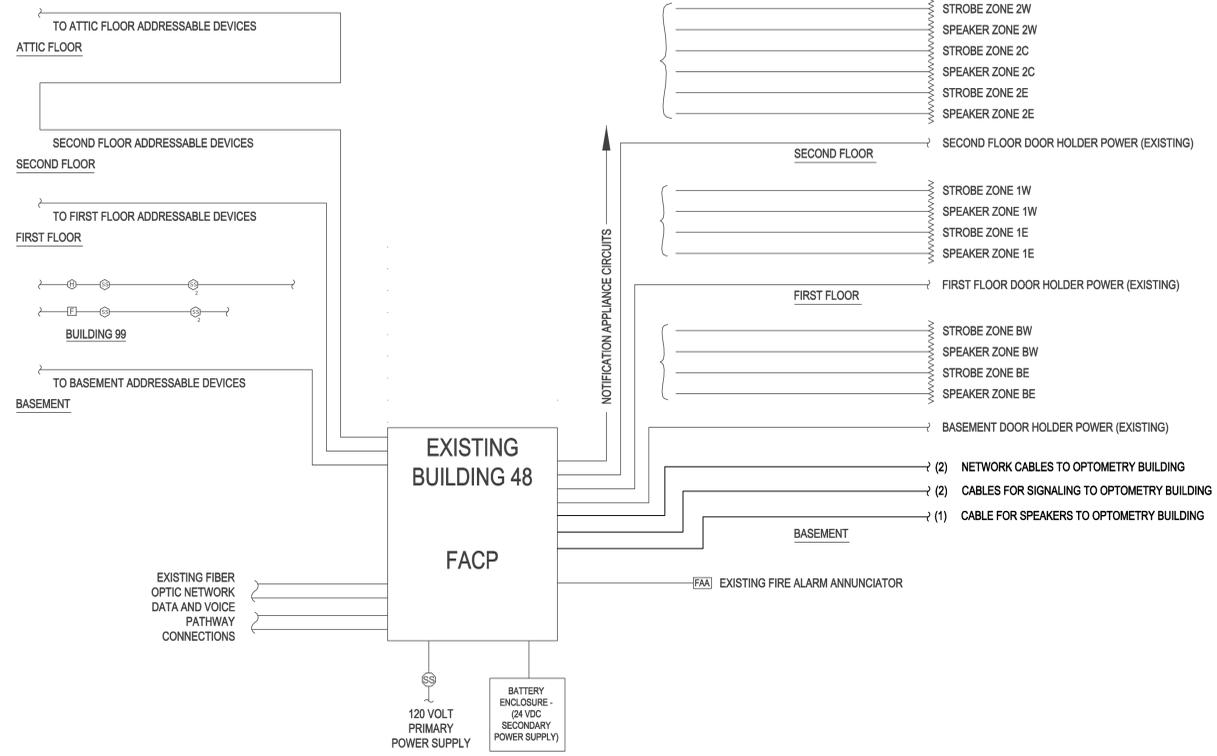
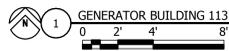
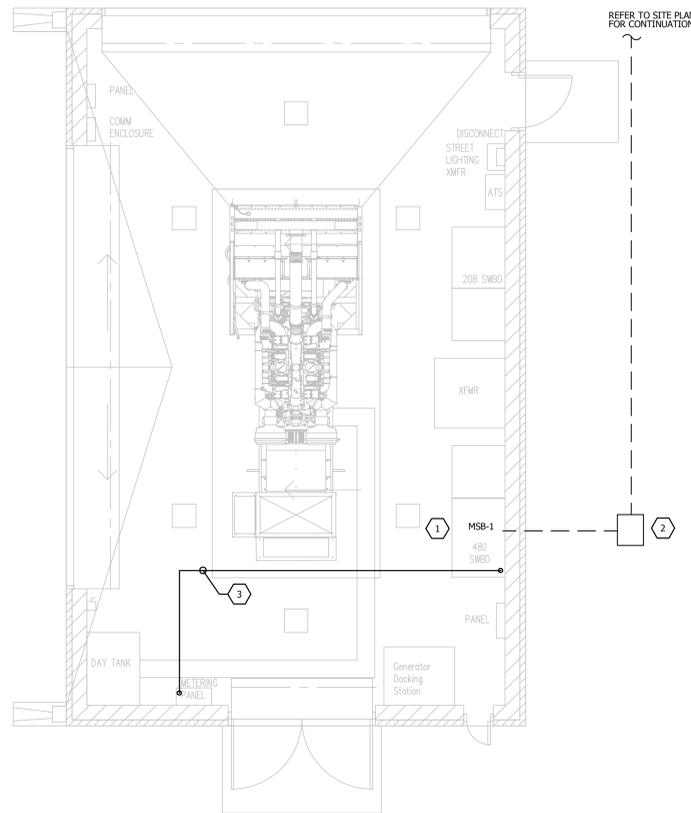
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 ARON R. MUELLER, P.E. REG. NO. 40188  
 DATE: 03.15.2016

**DRAWING TITLE:**  
 ELECTRICAL PLAN - BUILDING 48 FIRST FLOOR

PROJECT TITLE			DATE
OPTOMETRY TRAILER			03.15.2016
PROJECT NO.			656-15-267
BUILDING NO.	CHECKED BY	DRAWN	CD FILE
48	ARM	RSB	
LOCATION			DRAWING NO.
VA MEDICAL CENTER ST. CLOUD, MN 56302			E402

**St. Cloud VA Health Care System**  
 Brainerd | Montevideo | Alexandria



GENERAL NOTES:

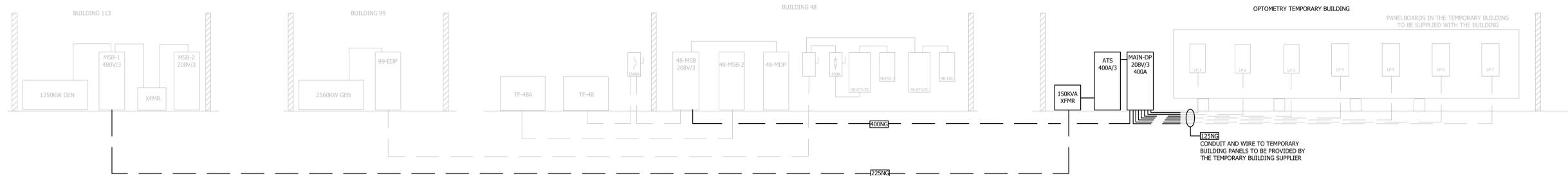
- PROVIDE PROGRAMMING FOR FIRE ALARM SYSTEM CONTROL PANEL CONTROL SCHEME FOR THE OPTOMETRY BUILDING TO BE SIMILAR TO EXISTING ZONE 1W.

2 BUILDING 48 FIRE ALARM RISER  
NTS

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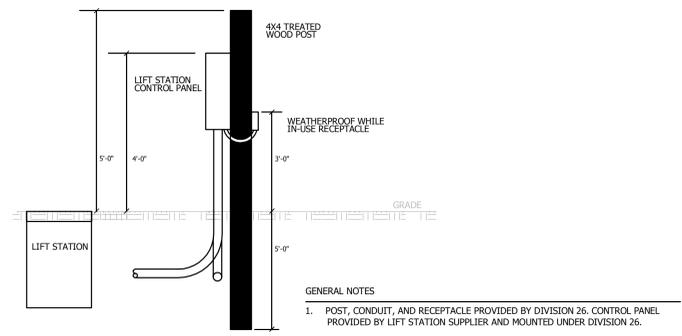
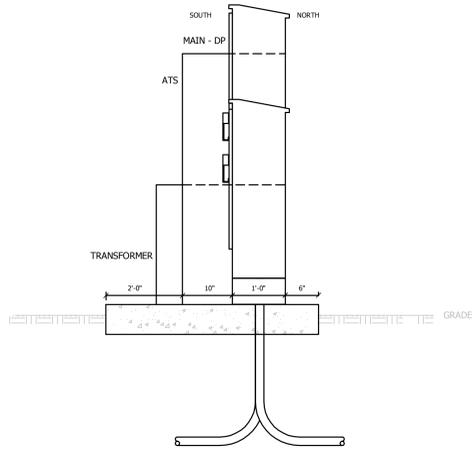
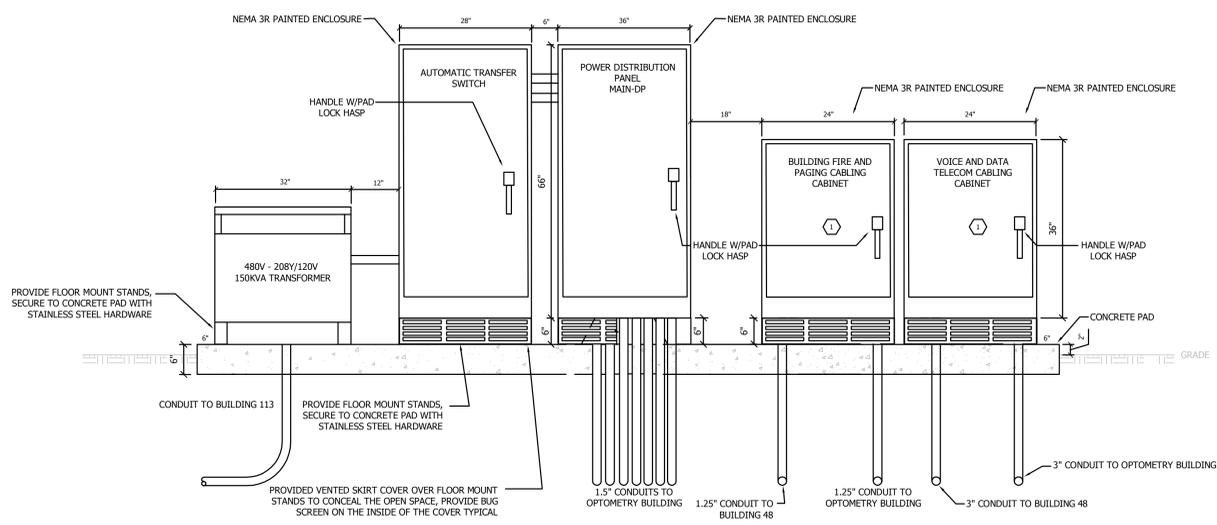
No. REVISION DATE	 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290	 Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2015	STAMP/SCALE: I hereby certify that this plan, SPECIFICALLY THE PORTION HEREIN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A QUALIFIED PROFESSIONAL ENGINEER, LICENSED UNDER THE LAWS OF THE STATE OF MINNESOTA.  AARON R. MUELLER, PE REG. NO. DATE: 03.15.2016	DRAWING TITLE ELECTRICAL PLAN - BUILDING 113 BUILDING 48 FIRE ALARM RISER	PROJECT TITLE OPTOMETRY TRAILER	DATE 03.15.2016
						PROJECT SCALE AS SHOWN
BUILDING NO. 48/113 CHECKED BY ARM DRAWN BY RSB			PROJECT NO. 656-15-267		CAD FILE	
LOCATION VIA MEDICAL CENTER ST. CLOUD, MN 56301			DRAWING NO. ES01		 Brainerd   Montevideo   Alexandria	

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one inch = one foot  
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one eighth inch = one foot



TAG	AMP	SETS	CONDUCTORS (AWG OR KCMIL) QNTY/TY/PE/SIZE	CONDUIT SIZE (IN)
125NG	125	1	4#1,1#6G	1.5
225NG	300	1	4#350KCMIL,1#4G	3
400NG	400	2	4#3/0,1#3G	2

1 RISER DIAGRAM  
E601 NOT TO SCALE



2 SERVICE EQUIPMENT FRONT ELEVATION  
E601 NOT TO SCALE

3 SERVICE EQUIPMENT SIDE ELEVATION  
E601 NOT TO SCALE

4 LIFT STATION SERVICE DETAIL  
E601 NOT TO SCALE

PANELBOARD SCHEDULE		NAME: MAIN-DP		CIRCUIT BREAKER: X		MAIN RATING: 400A			
		LOCATION: EXTERIOR (NEMA 3R)		MAIN LUGS ONLY:		VOLTAGE: 208Y/120			
		MOUNTING: FREE STANDING		WIRES: 4		PHASE: 3			
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CKT
1	SPACE FOR FUTURE LP-1 FEED	---	1				1	---	2
3	SPACE FOR FUTURE LP-1 FEED	---	1				1	---	4
5	SPACE FOR FUTURE LP-1 FEED	---	1				1	---	6
7	SPACE FOR FUTURE LP-1 FEED	---	1				1	---	8
9	SPACE FOR FUTURE LP-2 FEED	---	1				1	---	10
11	SPACE FOR FUTURE LP-2 FEED	---	1				1	---	12
13	SPACE FOR FUTURE LP-2 FEED	---	1				1	---	14
15	SPACE FOR FUTURE LP-3 FEED	---	1				1	---	16
17	SPACE FOR FUTURE LP-3 FEED	---	1				1	---	18
19	SPACE FOR FUTURE LP-3 FEED	---	1				1	---	20
21	SPACE FOR FUTURE LP-4 FEED	125A	1				30A	OPTOMETRY LIFT STATION	22
23	SPACE FOR FUTURE LP-4 FEED	---	1				1	---	24
25	SPACE	20A	1				20A	LIFT STATION RECEPTACLE	26
27	SPACE	20A	1				20A	SPACE	28
29	SPACE	20A	1				20A	SPACE	30
TOTAL CONNECTED LOAD:		0		TOTAL CALCULATED DEMAND:		TOTAL CALCULATED AMPS:			

GENERAL NOTES:  
 1. OPTOMETRY BUILDING SUPPLIER IS TO PROVIDE FEEDER BREAKERS FOR THE BUILDING PANELBOARDS UNDER THEIR BUILDING INSTALLATION WORK, THIS INCLUDES CABLING AND TERMINATIONS.  
 2. ---  
 3. ---

KEY NOTES:  
 \* = GFCI RATED BREAKER  
 \*\* = ISOLATED GROUND CIRCUIT  
 L = LIGHTING  
 R = RECEPTACLE

TAG	DESCRIPTION	TYPE	ALARM	GRAPHIC	TREND	NOTES
EJECTOR-A	Sewage Ejector High Level Alarm	BACnet	X	X	X	Via Dry Contact from Ejector Panel
ATS-OPT-A	Optometry Building Xfr Switch Gen Lockout	BACnet	X	X	X	Via Dry Contact from pad mount ATS

GENERAL NOTES  
 1. ALL METASYS CONDUIT, CABLING AND TERMINATIONS TO BE PROVIDED BY THE ODC CONTRACTOR UNDER DIVISION 23. CABLING AND CONDUIT IS NOT SHOWN ON THE DRAWINGS, REFER TO THE DIVISION 23 SPECIFICATIONS.  
 2. SEQUENCES OF OPERATION:  
 A. **ALARM MONITOR:** THE SEWAGE EJECTOR HIGH LEVEL ALARM CONTACT WILL BE MONITORED. A CRITICAL ALARM WILL BE GENERATED IF THE CONTACT CLOSURES, INDICATING A "HIGH LEVEL ALARM." ALL CRITICAL ALARMS WILL BE ROUTED SUCH THAT THE BOILER ROOM MONITORING STATION.  
 B. **ALARM MONITOR:** THE AUTOMATIC TRANSFER SWITCH GENERATOR LOCKOUT ALARM CONTACT WILL BE MONITORED. A CRITICAL ALARM WILL BE GENERATED IF THE CONTACT CLOSURES, INDICATING A "OPTOMETRY BUILDING XFR SWITCH LOCKOUT" ALARM. ALL CRITICAL ALARMS WILL BE ROUTED SUCH THAT THE BOILER ROOM MONITORING STATION.

5 METASYS POINT MONITORING  
E601 NOT TO SCALE

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No. REVISION DATE	 Design Tree ENGINEERING AND LAND SURVEYING 120 17th Avenue W. Alexandria, MN 56308 (320) 762-1290 3339 W. St. Germain, Suite 250 St. Cloud, MN 56301 (320) 217-5557 (Phone) (320) 217-5597 (Fax)	 JLG architects Alexandria 525 Broadway Street Alexandria, MN 56308 phone 320.759.9030 facsimile 320.759.9062 www.jlgarchitects.com copyright © 2015	STAMP/SCALE: I hereby certify that the plans were prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.  DATE: 03.15.2016 REG. NO.	DRAWING TITLE: ELECTRICAL RISER DIAGRAM AND DETAILS	PROJECT TITLE: OPTOMETRY TRAILER	DATE: 03.15.2016
						PROJECT SCALE: 1/8" = 1'-0"
BUILDING NO. 48	CHECKED BY: ARM	DRAWN BY: ARM	DATE: 03.15.2016	PROJECT NO.: 656-15-267	CD FILE	DRAWING NO.: E601
						LOCATION: VA MEDICAL CENTER ST. CLOUD, MN 56303

