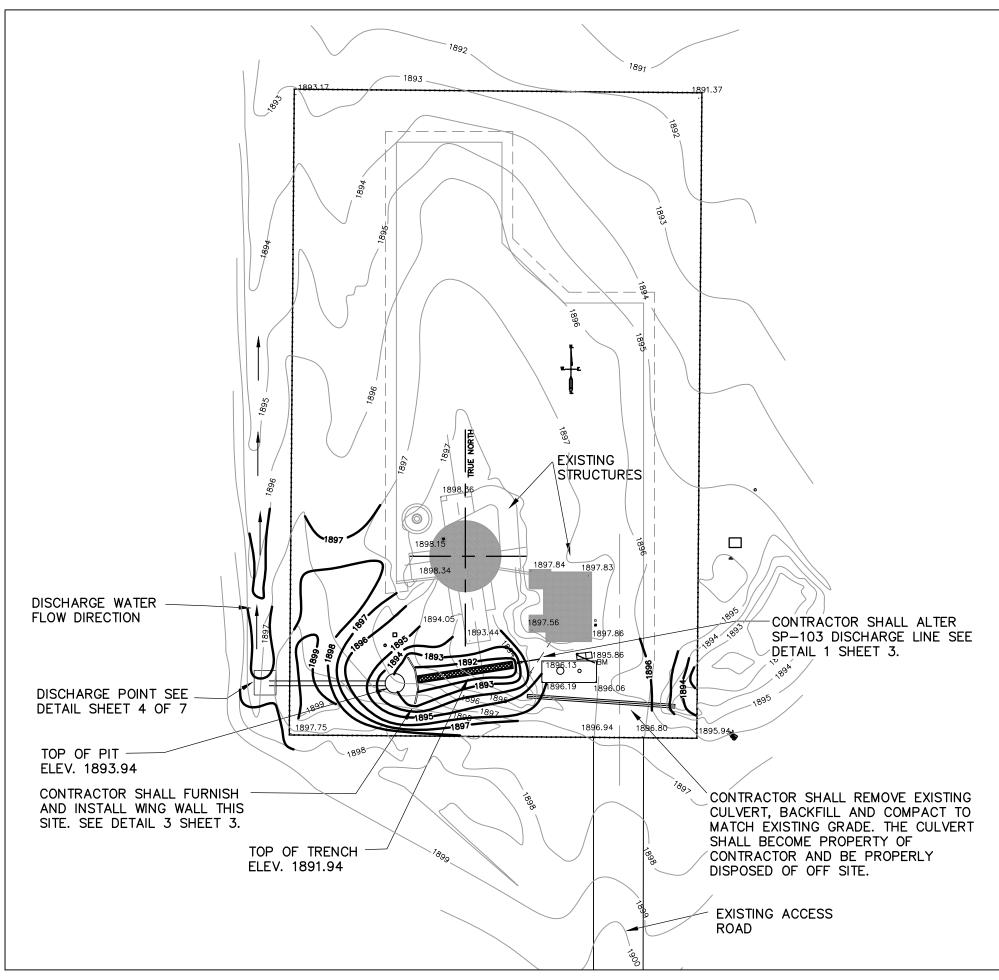
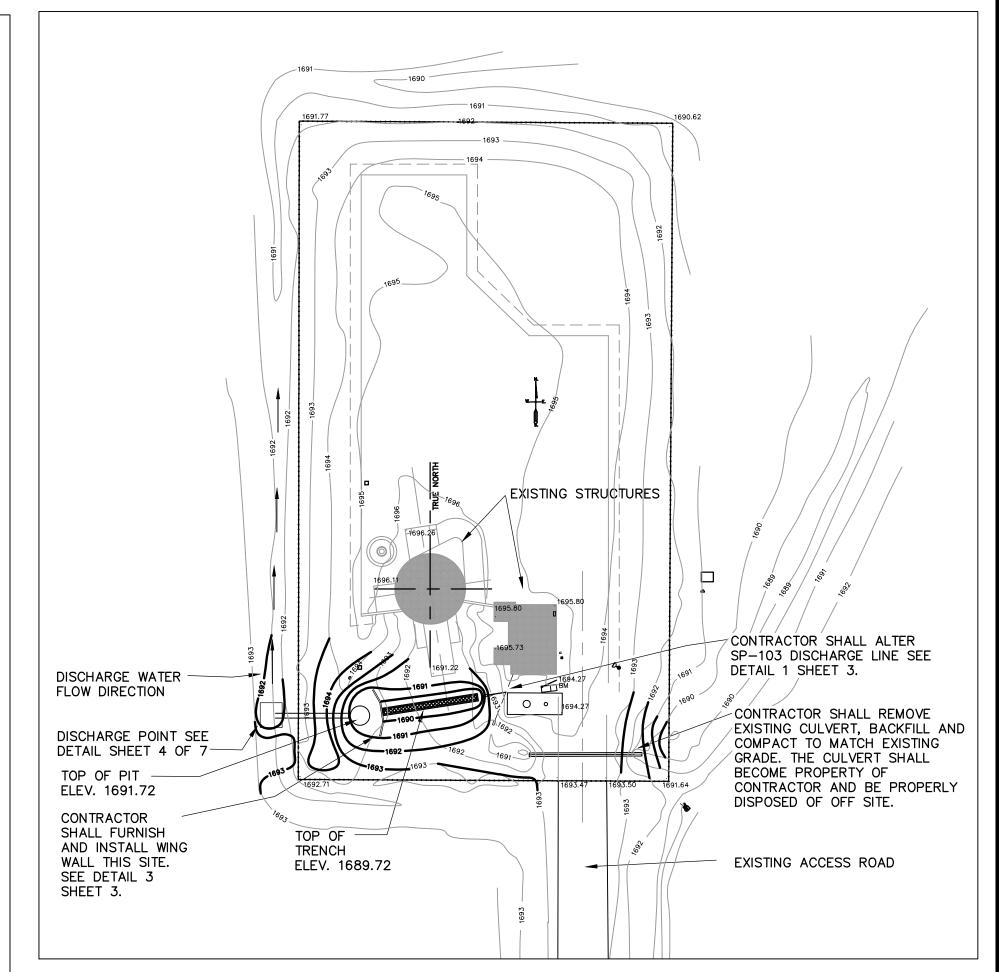
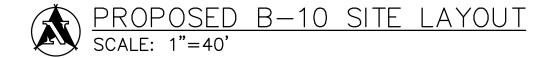


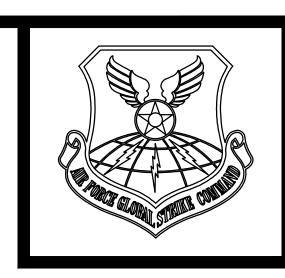
1 ANIMAL BARRIER DETAIL 2 SCALE: NONE



PROPOSED B-09 SITE LAYOUT SCALE: 1"=40'







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SIGNATURE	OFFICE
SEE TITLE SHEET	BASE CIVIL ENGINEER
SEE TITLE SHEET	CHIEF OF PROGRAMS
SEE TITLE SHEET	PROGRAM MANAGEMENT
SEE TITLE SHEET	USER
SEE TITLE SHEET	GROUND SAFETY
SEE TITLE SHEET	СОММ
SEE TITLE SHEET	BIO-ENV ENGINEER
SEE TITLE SHEET	FIRE CHIEF
SEE TITLE SHEET	CHIEF OF OPERATIONS
ENGINEER	DATE
LEWIS	14 JULY 201
DRAFTER	
MPM	
REVISIONS	BY/DATE

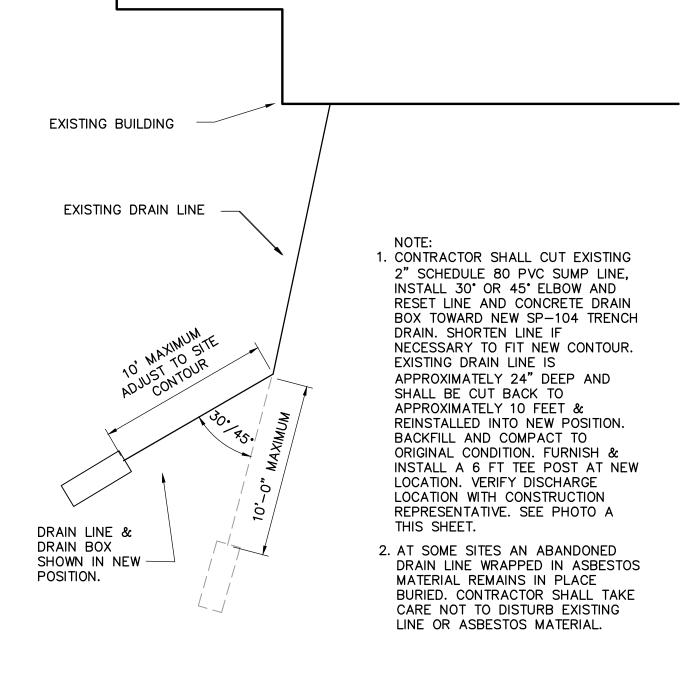
SHEET TITLE SP-104 SITE PLANS B-09 & B-10

REF SHT. NO. C - 1

CONSTRUCT SUMP PUMP-104

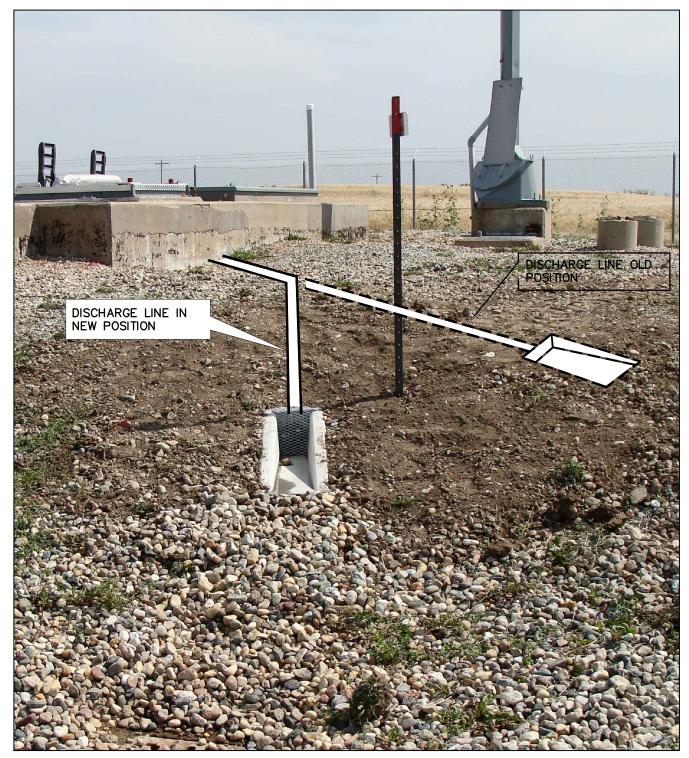
PROJECT NUMBER CPID 1007885

LFs



103 DISCHARGE DRAIN PLAN

NONE SCALE



103 DISCHARGE DRAIN PHOTO A

NOT TO SCALE SEE PLAN DETAIL 1 OF 3 THIS SHEET

NOTE:

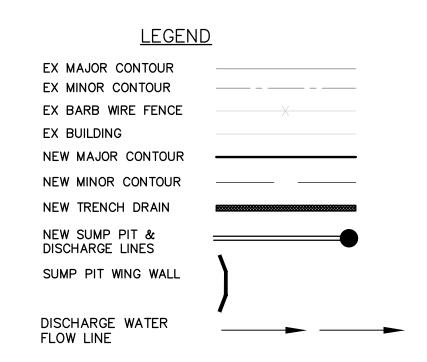
1. SITES WITH GRADING OR DISTURBED SOIL OUTSIDE SITE FENCED AREA SHALL BE RE SEEDED IN GRASS. SEE SPECIFICATIONS

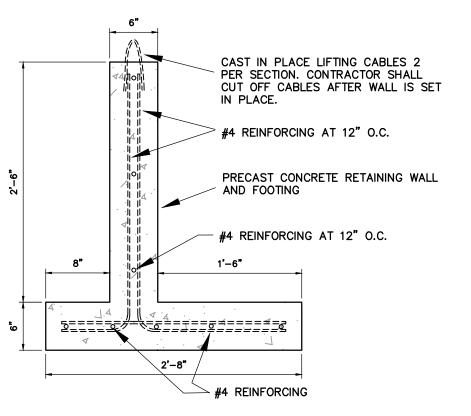
SITE LAYOUTS ARE APPROXIMATE

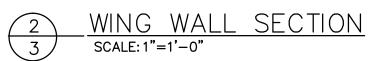
AND ARE FOR REFERENCE ONLY.

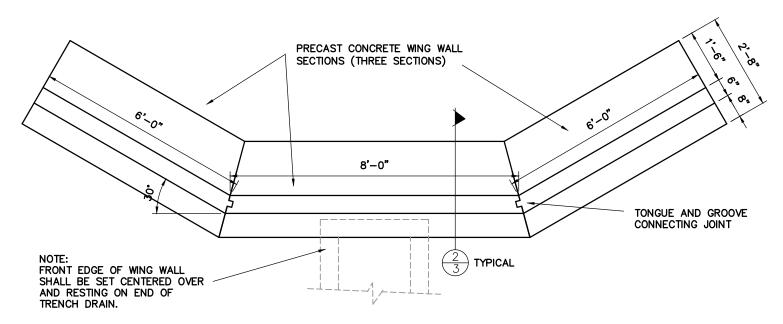




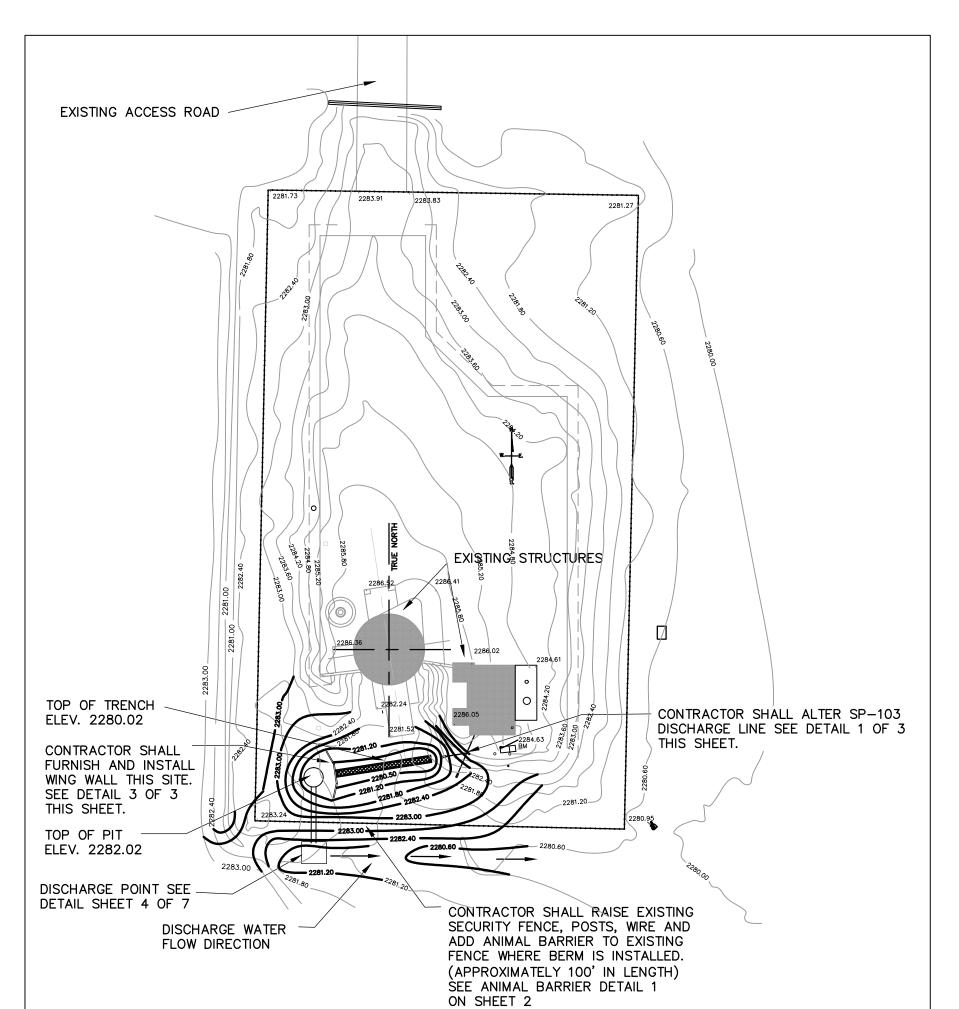


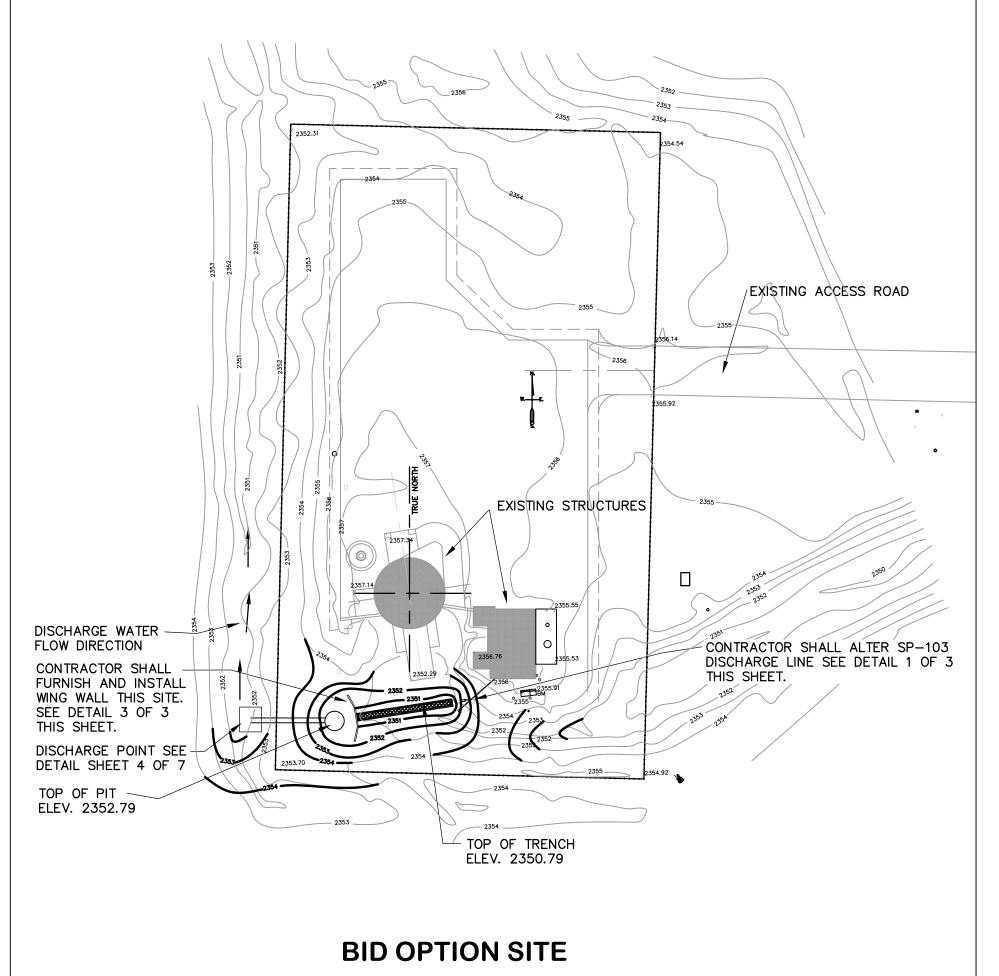


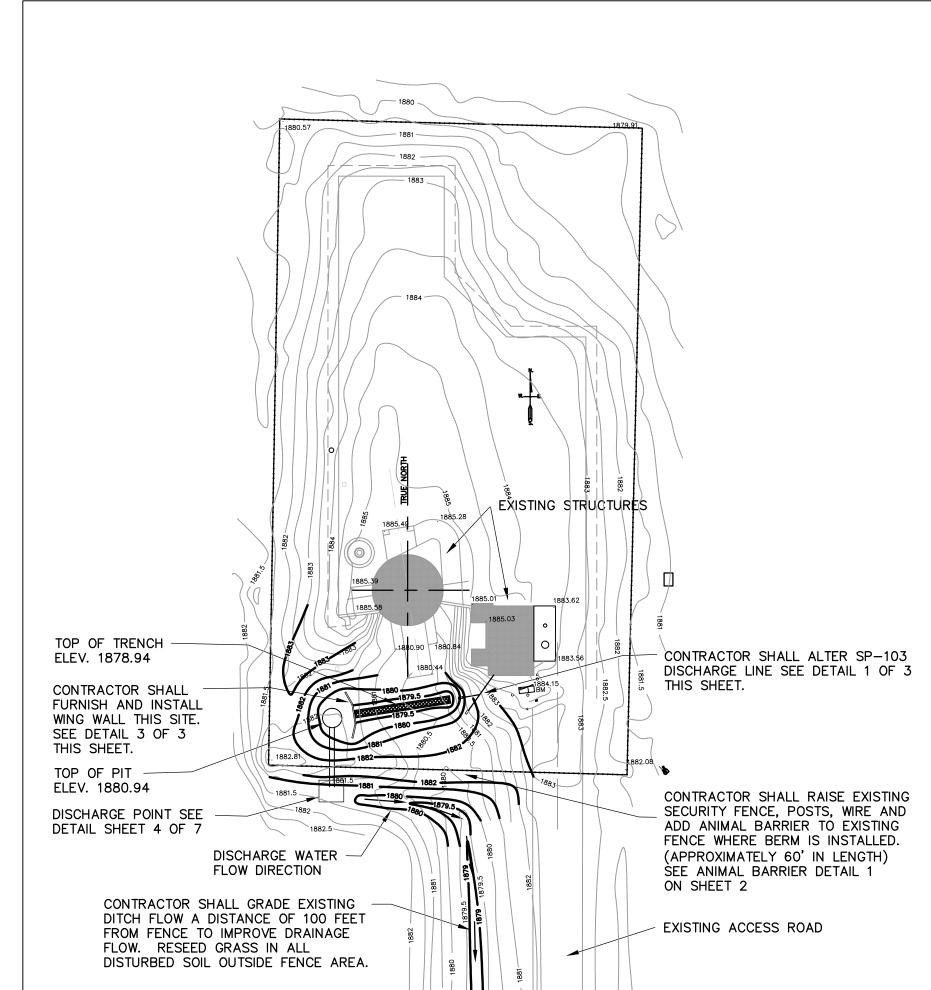


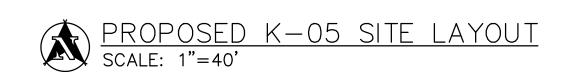


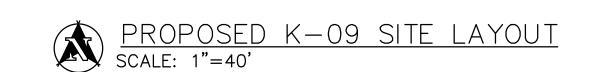
















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EE TITLE BASE CIVIL ENGINEER
EE TITLE CHIEF OF

BASE CIVIL **ENGINEER** CHIEF OF **PROGRAMS** PROGRAM MANAGEMENT USER GROUND SAFETY COMM BIO-ENV **ENGINEER** FIRE CHIEF CHIEF OF OPERATIONS DATE **ENGINEER** LEWIS 14 JULY 2017 DRAFTER MPM **REVISIONS** BY/DATE

SHEET TITLE

SP-104 SITE PLANS

K-05, K-09 & L-10

AND DETAILS

SHEET OF REF SHT. NO.

3 7 C-2

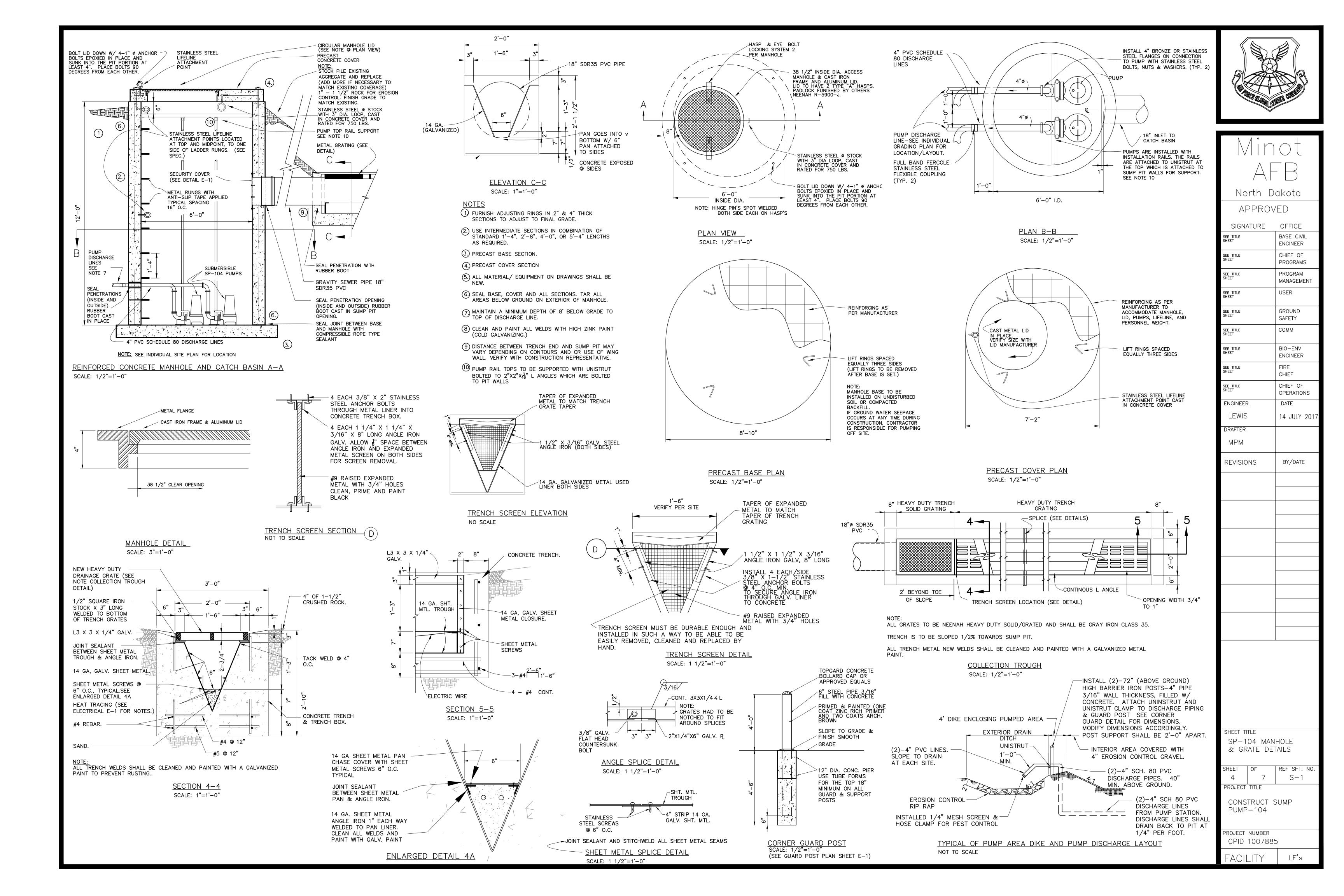
PROJECT TITLE

CONSTRUCT SUMP

PROJECT NUMBER

CPID 1007885
FACILITY LF

PUMP-104





EXISTING TYPICAL SP-104 AT LF's SCALE: NONE (FOR EXAMPLE ONLY)

TOP VIEW

SECURITY COVER

SCALE: 1 - 1/2"=1'-0"

2' X 2' X #9 NOT FLATTENED EXPANDED METAL. WELD 1-1/2" X 1/8" FLAT IRON AROUND THE

PERIMETER ON THE FRONT AND 1-1/2" X 3/8" FLAT IRON AROUND THE PERIMETER ON THE BACK OF THE EXPANDED METAL. DEGREASE, CLEAN, PRIME, AND PAINT WITH BLACK OUTDOOR

(LAUNCHER)

TRACK | BEAM

" LAUNCH APRON

WEATHER RESISTANT PAINT. FORM EXPANDED METAL PANEL TO THE RADIUS OF THE MANHOLE. SECURE METAL PANEL TO CONCRETE UTILIZING 3/8" X 2" CONCRETE ANCHORS THROUGH FLAT

CUT OFF 18" DIAMETER PIPE WITH ONLY A 3/8" REVEAL BEYOND CONCRETE. INSTALL

IRON PERIMETER. USE 4 ANCHORS EACH SIDE OR 12 TOTAL.

FRONT VIEW

DIRECTION OF

MAY VARY SEE

DISCHARGE LINES & SUMP

LOCATION

SITE

PLANS

2'-6"

BACK VIEW

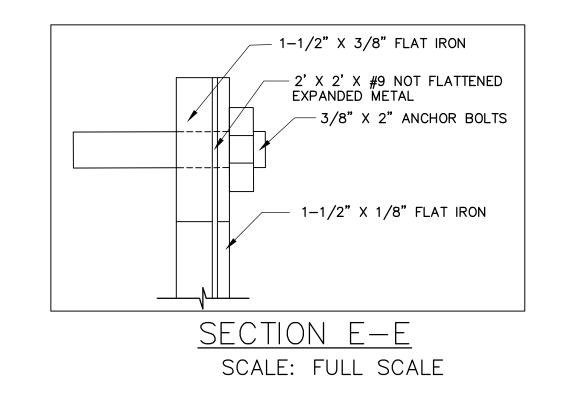
(SUPPORT BUILDING)

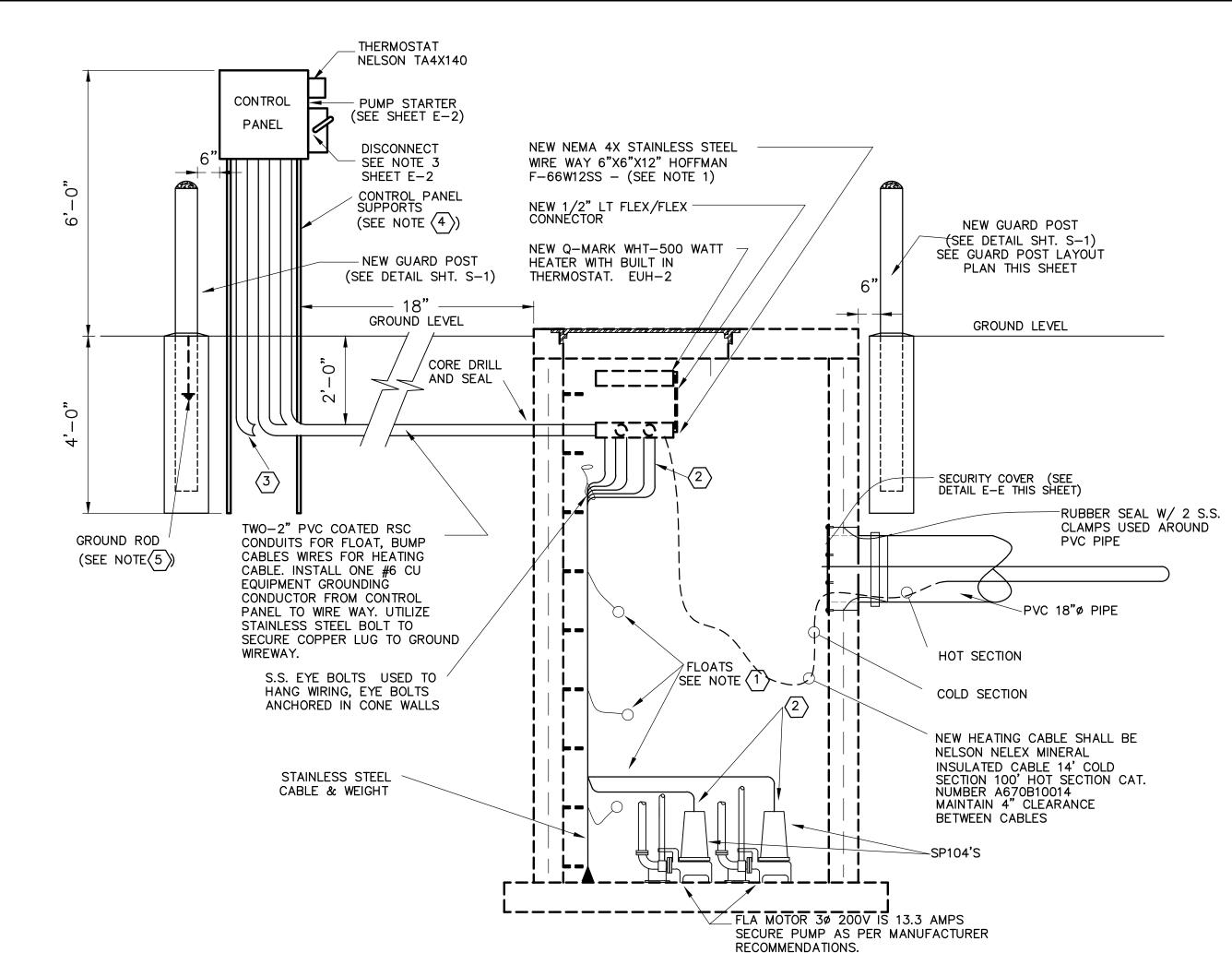
-see note (3)



EXISTING TYPICAL SP-104 AT LF's COLLECTION TROUGH (FOR EXAMPLE ONLY)

SCALE: NONE





CONCRETE MANHOLE AND CATCH BASIN SCALE: 1/2"=1'-0"

	6	ANEL &	0
ARD POSTS	6" / SI	UMP PIT 6"	
(9		0

	9
GUARD PO	ST PLAN
SCALE: NONE	

	(PER SITE) QUANTITY	BRAND	SERIES	SERIES	HP	PHASE	VOLTS
SP104 (PUMP)	* SEE GENERAL NOTE BELOW	GOULDS MOTOR & PUMP	3888D4	WS2038D4 WITH SILICON BRONZE IMPELLER , POWER CABLE TO BE TYPE STO 10 GAUGE, 4 CONDUCTORS 6 7 **	2	3	200 VOLTS
FLOAT ASSEMBLY	1	EUOQUA OR SIEMENS	B100 9GEFC FLOAT SWITCH WITH CABLE, W/ CLAMP FOR MOUNTING TO 1/8" SS CABLE, (SPDT, 4 AMP) DIRECT ACTING FLOAT SWITCH & FLOAT ASSEMBLY. CAT # W2T295692 (XX = CABLE LENGTH) CABLE LENGTHS AS REQUIRED. SEE NOTE 1.	B100 CBM SS CABLE / WEIGHT SUSPENSION MOUNTING KIT WITH 30' STANDARD CABLE, CAT # W2T295021 SUSPENDED FROM CEILING, ALL HARDWARE TO BE STAINLESS STEEL			250 VAC

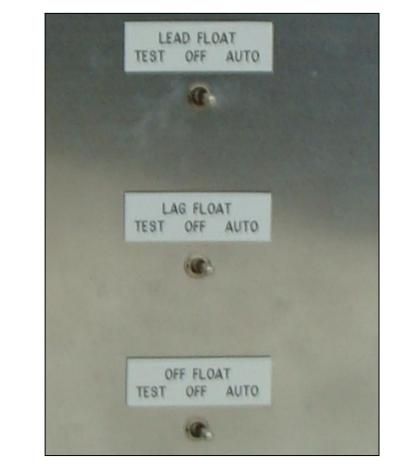
* GENERAL NOTES: ** PUMPS SHALL NOT HAVE CHECK VALVES FROM FACTORY, DISABLING OF CHECK VALVES WILL NOT BE ACCEPTABLE.

NOTES:

- FLOAT AND MOTOR CABLES ARE NOT TO BE SPLICED IN WIREWAY. THEY ARE TO BE CONTINUOUS FROM FLOAT, MOTOR AND HEATER TO CONTROL PANEL. CONTRACTOR SHALL ORDER CABLE LENGTHS AS REQUIRED TO ELIMINATE SPLICING IN WIREWAY. THE MINERAL INSULATED CABLE IS THE ONLY CONNECTION ALLOWED IN WIREWAY. LEAVE 2 FOOT LOOP ON EACH CORD AS IT PASSES THROUGH WIREWAY.
- 2 ALL CONNECTIONS SHALL BE WATER TIGHT. UTILIZE MYERS HUBS AND CORD CONNECTORS AS REQUIRED. SEE S-1 FOR PUMP AND MOTOR. PUMP BASE TO BE FURNISHED BY PUMP MANUFACTURER.
- (3) INSTALL NEW 2" PVC COATED RSC CONDUT FROM PUMP CONTROL PANEL TO EQUIPMENT BUILDING PANEL WITH FOUR (4) NEW #1 COPPER THHN/THWN, AND ONE (1) NEW #6 COPPER EQUIPMENT GROUNDING, CONDUCTORS AND FOUR (4) #12 THHN/THWN CONDUCTORS SHALL BE INSTALLED IN CONDUIT. POWER CONDUCTORS TO BE CONNECTED FROM PANEL LDA CB# 43,45,47 TO DISCONNECT TO PUMP CONTROL PANEL, AS REQUIRED. FOUR (4) #12 CONDUCTORS, TWO (2) TO BE LABELED AS SPARES AND THE REMAINING TWO (2) TO BE UTILIZED, AS INDICATED, ON PUMP STATION CONTROL/ENCLOSURE DETAIL AND LFSB FLOOR PLAN. SEE SHEET E-2. CONDUIT SHALL BE BURIED 3'-0" DEEP WITH 3" ELECTRICAL MARKER TAPE 1'-0" ABOVE CONDUIT.
- 4 2-1/2" X 2-1/2" X 10', 12 GAUGE GALVANIZED SQUARE TUBE STEEL. TUBE SHALL BE SIGN TUBE TYPE AS INDICATED ON EXISTING PUMP STATION PICTURE..
- (5) INSTALL ONE 3/4" X 10' SUPPLEMENTAL GROUND ROD. CONNECT TO PANEL WITH #6 SOLID COPPER WIRE.
- 6 INCLUDES MEYERS LIFT OUT RAIL ASSEMBLIES PART NO. SRA FOR GOULDS MOTOR & PUMP.
- \nearrow INCLUDES ADVANTAGE STAINLESS STEEL $\frac{1}{4}$ " CHAINS PART NO. SSHT250 & INCLUDES ADVANTAGE $\frac{1}{2}$ " SHAKELS PART NO. SSPA500BOW.
- (8) CONTRACTOR SHALL PROVIDE ADEQUATE WATER TO EACH SITE TO VERIFY CORRECT FLOAT AND PUMP OPERATION AND ROTATION.



EXISTING TYPICAL SP-104 PANEL AT LF's scale: None (for example only)



SP-104 PANEL-INSIDE SCALE: NONE (FOR EXAMPLE ONLY)

GENERAL NOTES:

PICTURES ON E-1, E-2 AND E-3 ARE PICTURES OF EXISTING SP104 SYSTEMS AT SITES THAT ALREADY HAVE SP-104s INSTALLED ON THE SITES. THERE ARE NOT EXISTING SP-104s, TROUGHS, PITS AND RELATED EQUIPMENT AT SITES SPECIFIED IN THIS CONTRACT. EVERYTHING WILL BE NEW CONSTRUCTION.

PICTURES ON E-1, E-2 AND E-3 INDICATE HOW THE SITES SHOULD LOOK UPON COMPLETION OF THE NEW SP-104s, TROUGHS, PITS AND RELATED EQUIPMENT.



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E	CHIEF OF PROGRAMS		
E	PROGRAM MANAGEMENT		
E	USER		
E	GROUND		

SEE TITLE
SHEET

SEE TITLE
SHEET

SEE TITLE
SHEET

SEE TITLE
SHEET

BIO—ENV
ENGINEER

SEE TITLE
SHEET

FIRE
CHIEF
CHIEF

SEE TITLE
SHEET

CHIEF OF
OPERATIONS

ENGINEER

DRAGSETH

DRAFTER
MPM

REVISIONS

BY/DATE

SHEET TITLE

ELECTRICAL PLAN

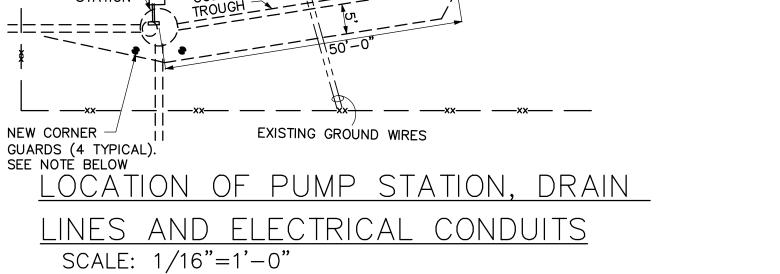
DETAILS & NOTES

SHEET OF REF SHT. NO.
5 7 E-1
PROJECT TITLE

CONSTRUCT SUMP
PUMP-104

PROJECT NUMBER

CPID 1007885
FACILITY LFs



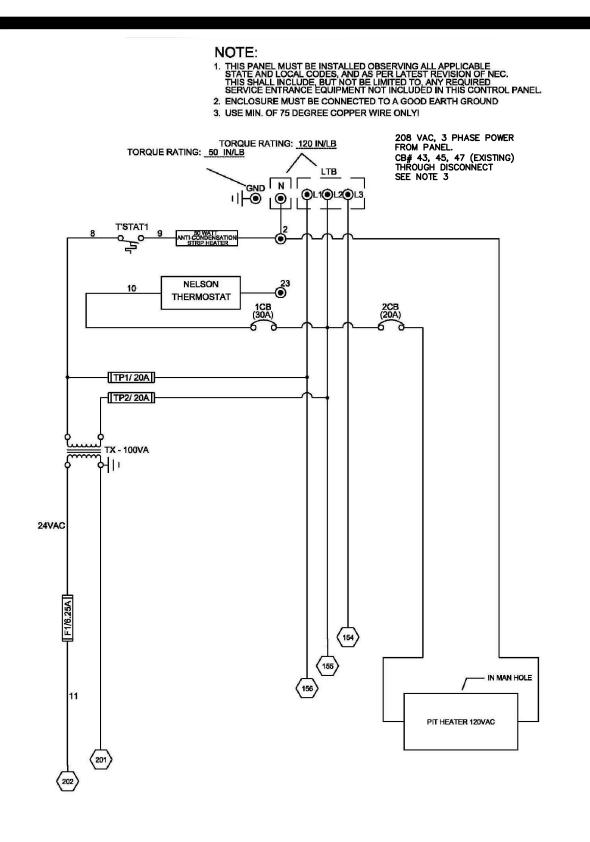
NOTE: INSTALL NEW CORNER GUARDS (4 TYPICAL) IN A SQUARE PATTERN 6" BEYOND OUTER LIMITS OF CONTROL PANEL AND CONCRETE SUMP PIT. TOP OF CORNER GUARD SHALL BE 48" ABOVE GROUND LEVEL. (SEE GUARD POST PLAN THIS SHEET)

ELECTRICAL PANEL HAS AN EXISTING

3 POLE, 100 AMP BREAKER TO BE

UTILIZED FOR THIS PROJECT.

SEE PICTURE D, SHEET E-2.



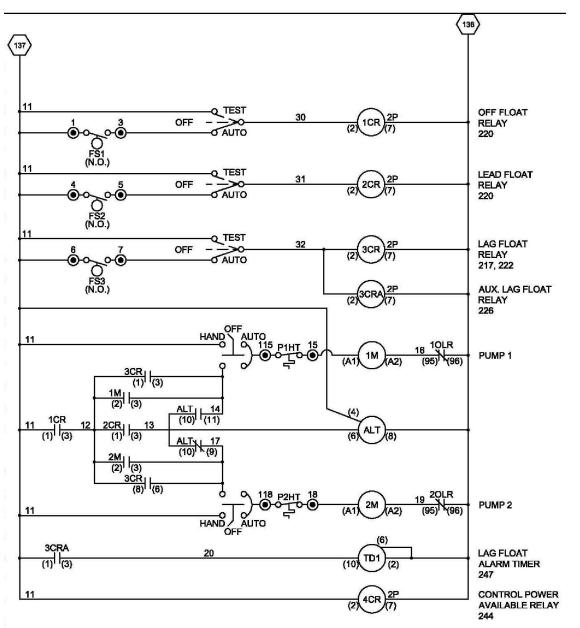
TORQUE RATING: 20 INLB TORQUE RATING: 45 INLB AMOTOR 200 VAC 2MCB (30A) TORQUE RATING: 45 INLB AMOTOR 200 VAC 3.PH 60.HZ 2.HP 13.3 FLA

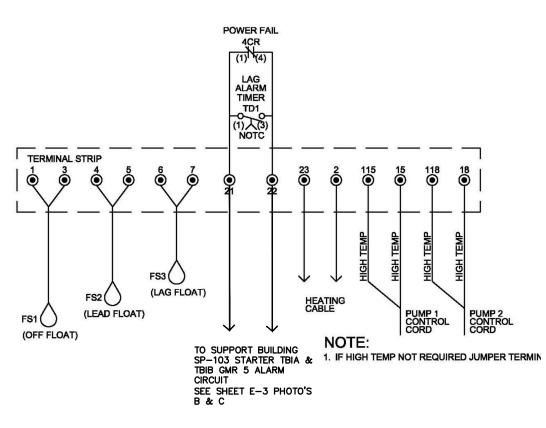
PUMP STATION

CONTROL/ENCLOSURE SCHEMATIC 2

SCALE: NONE

NOTE: NO APPROVED EQUALS (5)



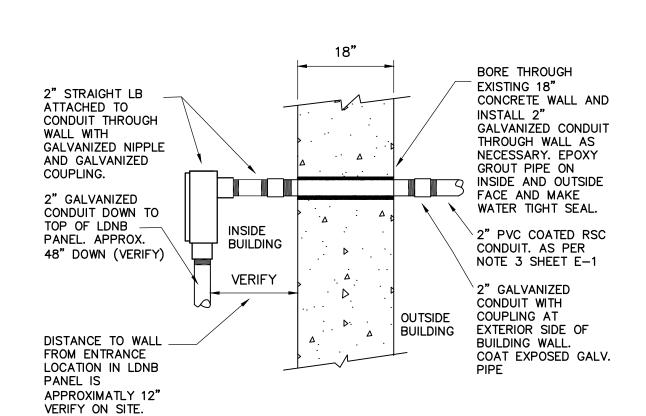


PUMP STATION

CONTROL/ENCLOSURE SCHEMATIC 1

SCALE: NONE

NOTE: NO APPROVED EQUALS (5)



TYPICAL SECTION DETAIL OF

CONDUIT THRU EXISTING WALL

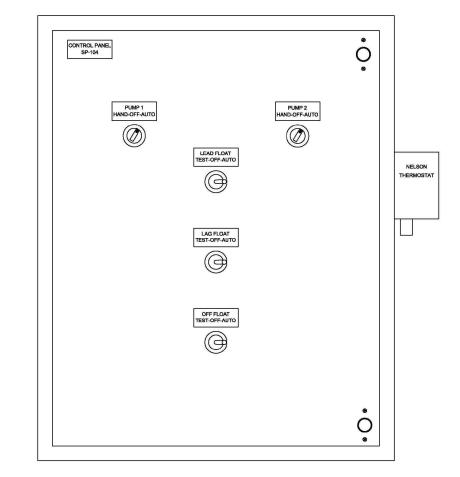
SCALE: NONE



EXISTING TYPICAL COMPLETED LF SITE - C scale: None (for example only)

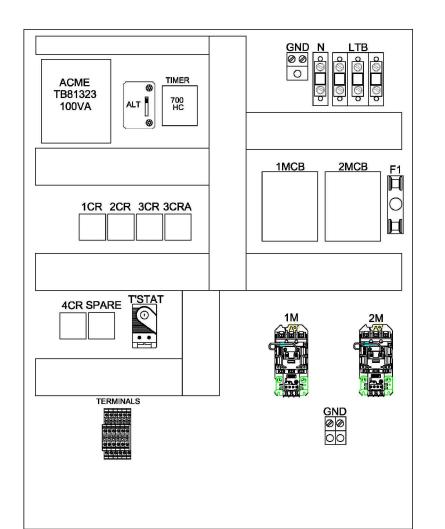
GENERAL NOTES:

- (1) NOT USED THIS PROJECT.
- TERMINATE FOUR (4) #12 AWG
 CONDUCTORS (2 SPARES) FROM SP-104
 CONTROL PANEL TO EXISTING SP-103
 CONTROL PANEL. CONNECT REMAINING
 TWO (2) CONDUCTORS IN SP-103 CONTROL
 PANEL ON ALARM RELAY ACROSS
 TERMINALS TB1A AND TB1B AS REQUIRED.
 SEE PICTURE C SHEET E-3.
- DISCONNECT SHALL BE SEIMENS 240 VAC, HP RATED, CATALOG NO. GF322NR. SUITABLE FOR USE AS SERVICE EQUIPMENT 3 POLE, 4 WIRE, NEMA TYPE 3R. FUSE SHALL BE FLNR60ID.
- $\langle 4. \rangle$ NO SUBSTITUTIONS ON ANY EQUIPMENT.
- TO ORDER CONTROL PANEL CONTACT ELECTRIC PUMP & REFERENCE REVISED AS-BUILT DRAWINGS #E1534189-01R1 CONTACT NUMBER IS 555-265-2222 COMPANY POC'S: ANDY DANA, OR JEFF JANIKSELA NO APPROVED EQUALS



PUMP STATION

2 CONTROL/ENCLOSURE DETAIL
6 SCALE: NONE
NOTE: NO APPROVED EQUALS (5)



PUMP STATION

3 CONTROL/ENCLOSURE DETAIL

6 SCALE: NONE NOTE: NO APPROVED EQUALS (5)

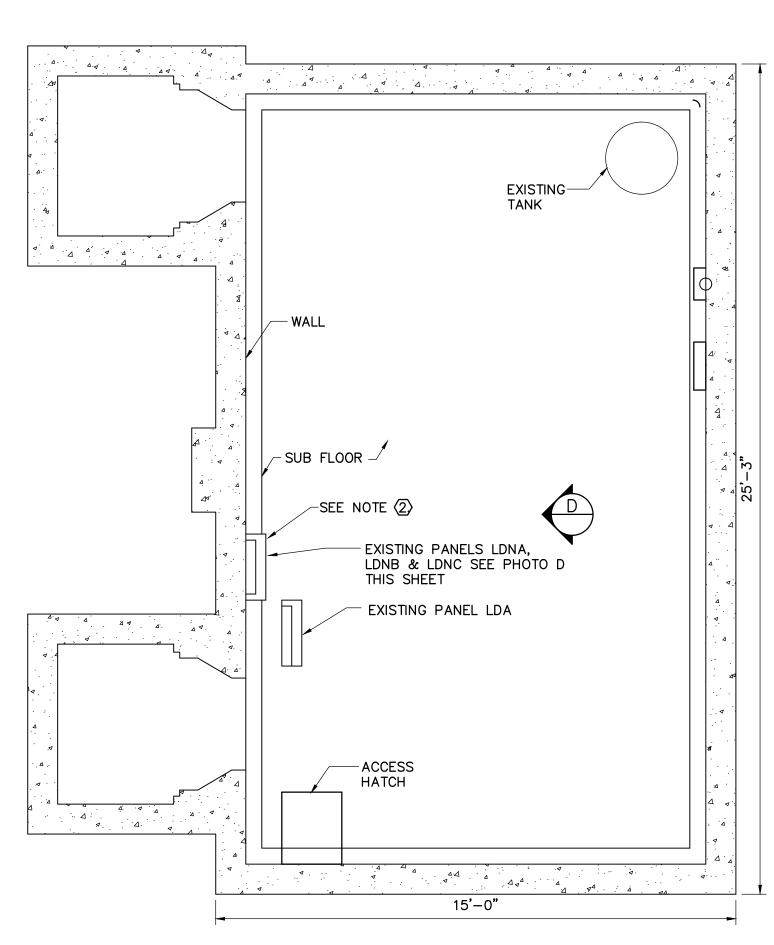


EXISTING TYPICAL SP-104 PANEL - A SCALE: NONE PREVIOUS CONTRACT

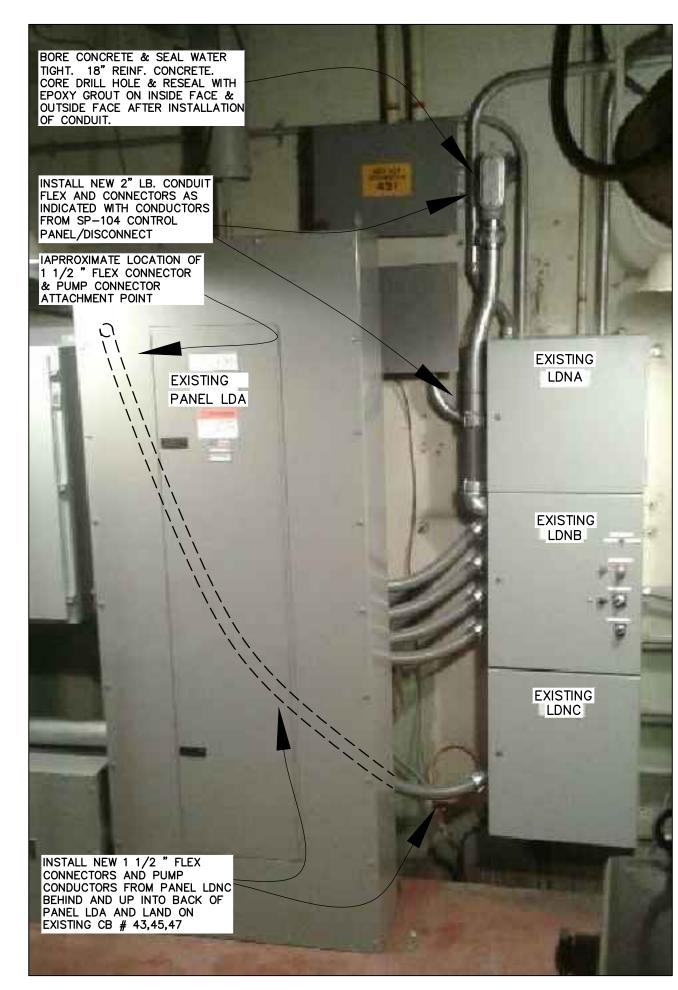
NOTES: (PUMP STATION CONTROL/ENCLOSURE)

1. PUMP STATION CONTROL ENCLOSURE SHALL BE A HOFFMAN ENCLOSURE 30" X 24" X 12" CONTINUOUS HINGE. HOFFMAN CATALOG NO. A302412LB.

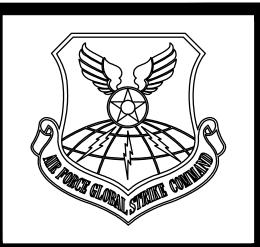
2. HEATING CABLE TEMPERATURE SWITCH SHALL BE A NELSON TA4X140.



EXISTING LFSB FLOOR PLAN
SCALE: 1/4" = 1'-0"



EXISTING TYPICAL PANELS @ LF SITE - D SCALE: NONE (FOR EXAMPLE ONLY)



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SIGNATURE OFFICE BASE CIVIL ENGINEER CHIEF OF PROGRAMS PROGRAM MANAGEMEN' USER GROUND SAFETY COMM BIO-ENV **ENGINEER** FIRE CHIEF CHIEF OF **OPERATIONS** ENGINEER DATE DRAGSETH 14 JULY 2017 DRAFTER MPM REVISIONS BY/DATE

SHEET TITLE

ELECTRICAL PLAN

DETAILS & NOTES

(CONT.)

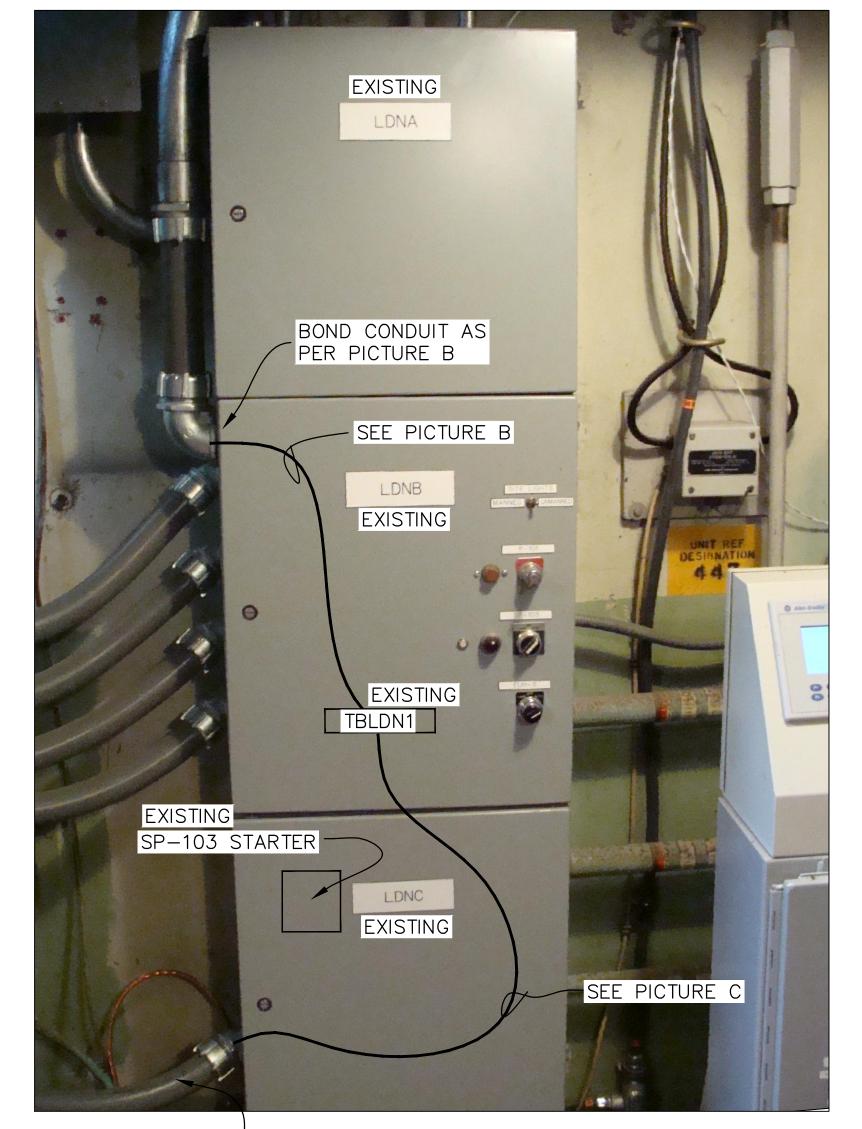
SHEET OF REF SHT. NO
6 7 E-2

PROJECT TITLE

CONSTRUCT SUMP
PUMP-104

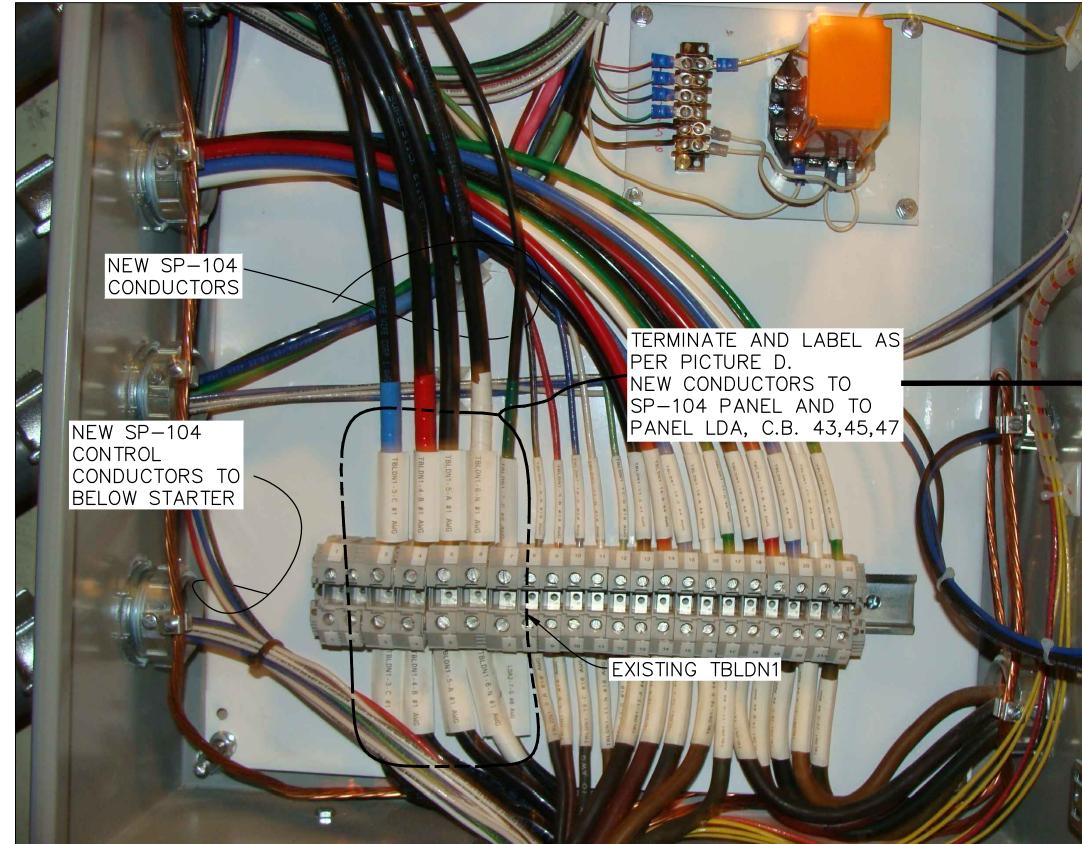
PROJECT NUMBER
CPID 1007885

FACILITY LF's

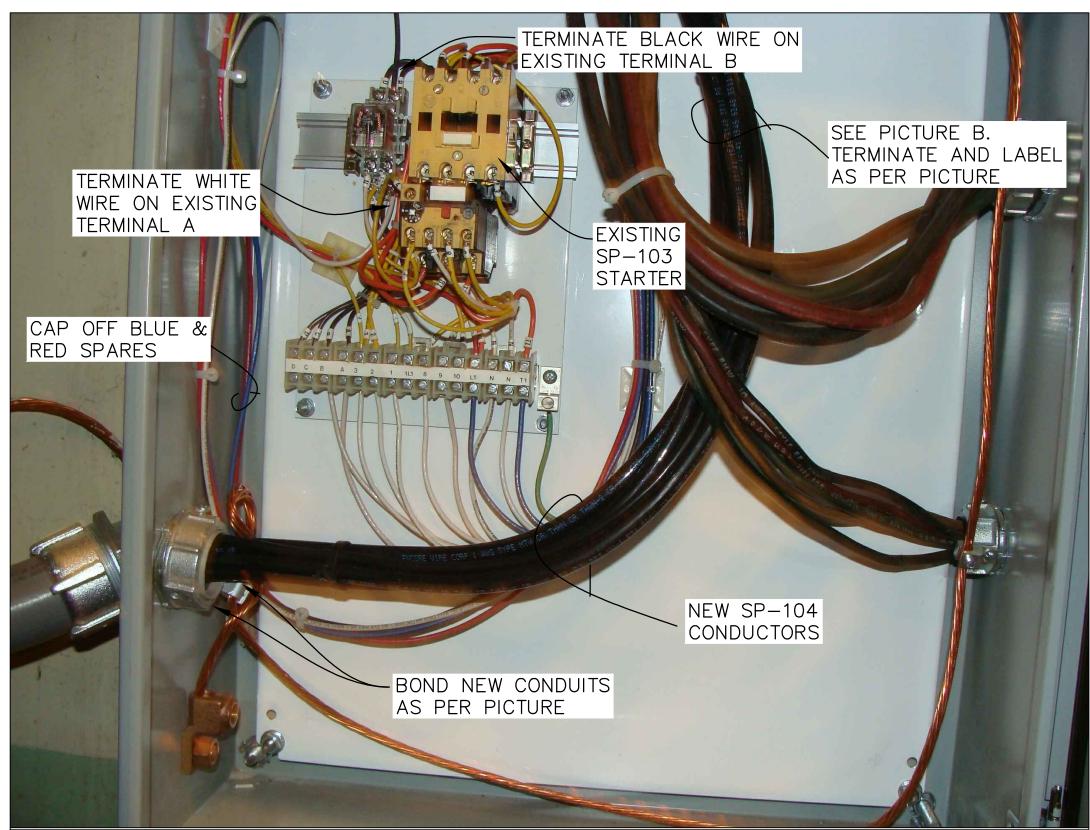


NEW 1 ½" FLEX AND CONDUCTORS FROM EXISTING PANEL LDA MATCH CONDUCTORS TO SUMP PUMP PANEL

PICTURE A no scale



PICTURE B / LDNB PANEL NO SCALE



PICTURE C / LDNC PANEL NO SCALE



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SEE TITLE SHEET	PROGRAM MANAGEMENT
SEE TITLE SHEET	USER
SEE TITLE SHEET	GROUND SAFETY
SEE TITLE SHEET	СОММ
SEE TITLE SHEET	BIO-ENV ENGINEER
SEE TITLE SHEET	FIRE CHIEF
SEE TITLE SHEET	CHIEF OF OPERATIONS
ENGINEER	DATE
DRAGSETH	14 JULY 2017
DRAFTER	
MPM	
REVISIONS	BY/DATE



SHEET TI	TLE		
ELECTRICAL PLANS DETAILS & NOTES (CONT.)			
SHEET	OF	REF SHT. NO.	
7	7	E-3	

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PROJECT	TITLE	
CONS' PUMP	TRUCT S -104	SUMP

PROJECT NUMBER
CPID 1007885

FACILITY LFs