



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED							
	PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN						
	ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE						
ALTERED, THE ALTERING ENGINEER, AND THE CT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY							
- Inclusion - S	THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						
103646	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
OFESSIONAL		No	. DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRAV

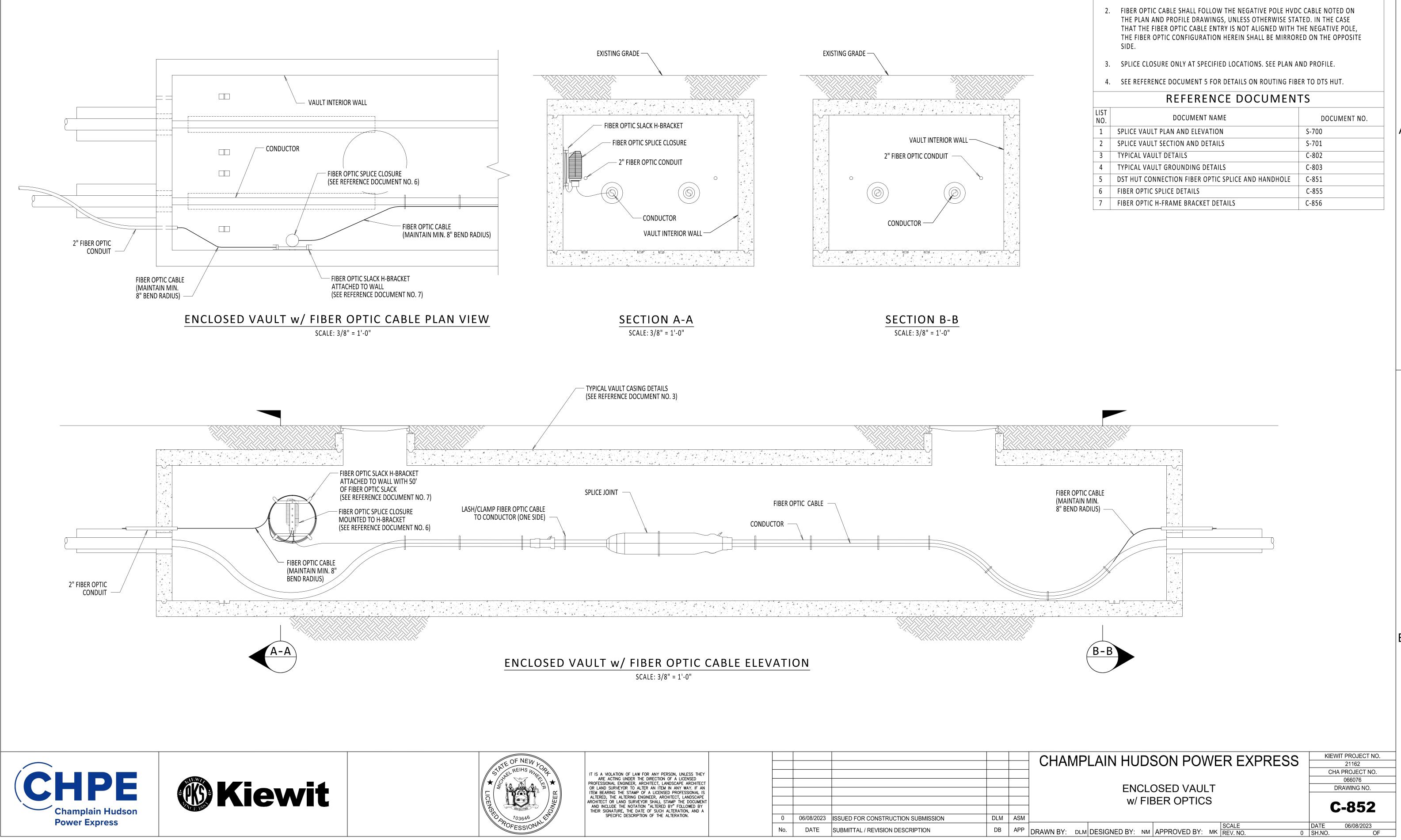
NOTES:

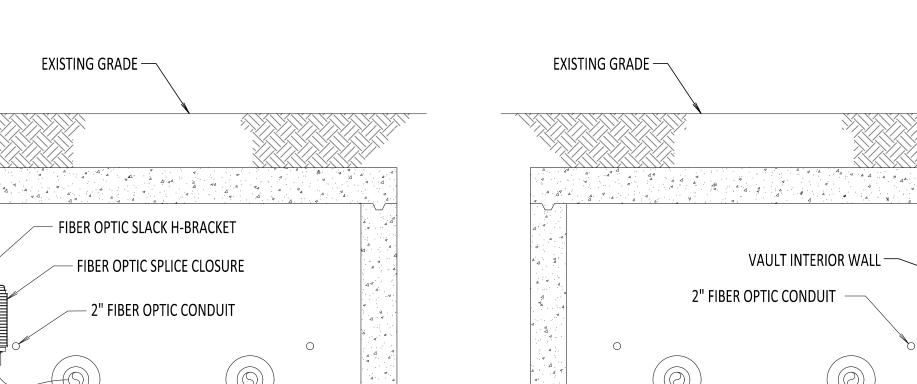
- 1. NKT TO LASH/CLAMP FIBER OPTIC CABLE AND ATTACH SPLICE CLOSURES.
- 2. FIBER OPTIC CABLE SHALL FOLLOW THE NEGATIVE POLE HVDC CABLE NOTED ON THE

	REFERENCE DOCUMENTS						
LIST NO.	DOCUMENT NAME	DOCUMENT NO.					
1	TRANSITION VAULT PLAN AND ELEVATION	S-730					
2	TRANSITION VAULT SECTION AND DETAILS	S-731					
3	TRANSITION VAULT EXTENDED SNAKING DETAILS	C-805					
4	TRANSITION VAULT GROUNDING DETAILS	C-806					
5	DST HUT CONNECTION FIBER OPTIC SPLICE AND HANDHOLE	C-851					
6	FIBER OPTIC SPLICE DETAILS	C-855					
7	FIBER OPTIC H-FRAME BRACKET DETAILS	C-856					

A

B







							1
OFNEW							1 1
EL REIHS WY PY	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY						
	ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT						
	OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS						
	ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						
703646	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
OFESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR/

N	\mathbf{O}	ТΕ	c.
IN	U	IL	Э.

- 1. NKT TO LASH/CLAMP FIBER OPTIC CABLE AND ATTACH SPLICE CLOSURES AS NEEDED.
- 2. FIBER OPTIC CABLE SHALL FOLLOW THE NEGATIVE POLE HVDC CABLE NOTED ON THE PLAN AND PROFILE DRAWINGS, UNLESS OTHERWISE STATED. IN THE CASE THAT THE FIBER OPTIC CABLE ENTRY IS NOT ALIGNED WITH THE NEGATIVE POLE, THE FIBER OPTIC CONFIGURATION HEREIN SHALL BE MIRRORED ON THE OPPOSITE

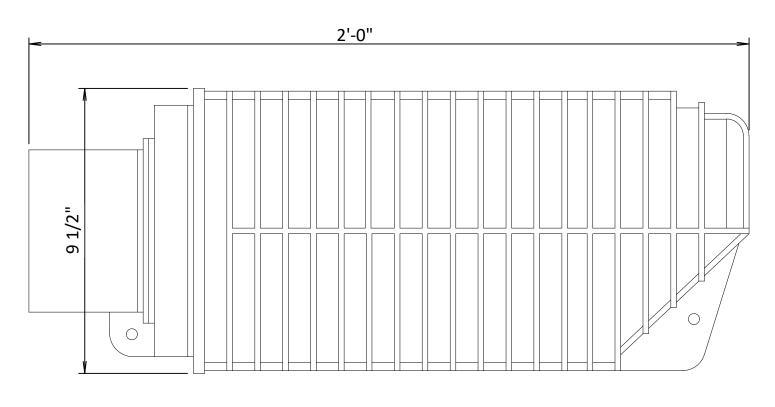
	REFERENCE DOCUMENTS				
LIST NO.	DOCUMENT NAME	DOCUMENT NO.			
1	SPLICE VAULT PLAN AND ELEVATION	S-700			
2	SPLICE VAULT SECTION AND DETAILS	S-701			
3	TYPICAL VAULT DETAILS	C-802			
4	TYPICAL VAULT GROUNDING DETAILS	C-803			
5	DST HUT CONNECTION FIBER OPTIC SPLICE AND HANDHOLE	C-851			
6	FIBER OPTIC SPLICE DETAILS	C-855			
7	FIBER OPTIC H-FRAME BRACKET DETAILS	C-856			

A

B

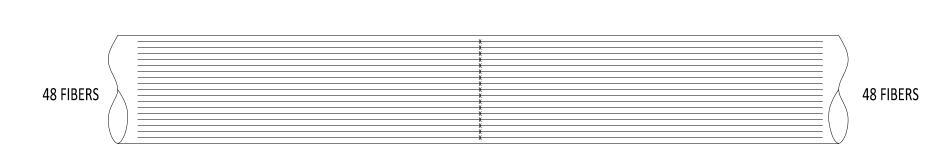
0 SH.NO.

DRAWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO.



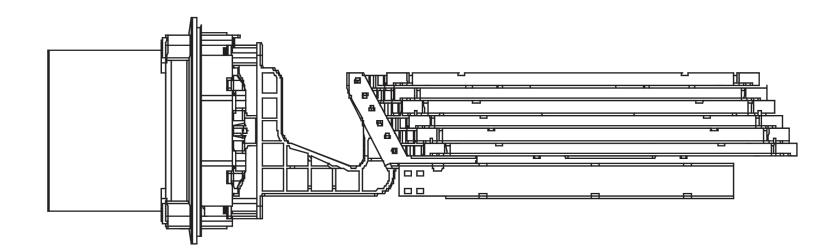
FIBER OPTIC SPLICE CLOSURE

NOT TO SCALE



FIBER OPTIC CABLE SPLICE

NOT TO SCALE

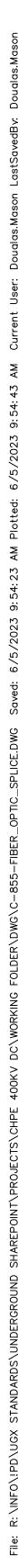


FIBER OPTIC SPLICE CLOSURE INSIDE DIAGRAM NOT TO SCALE





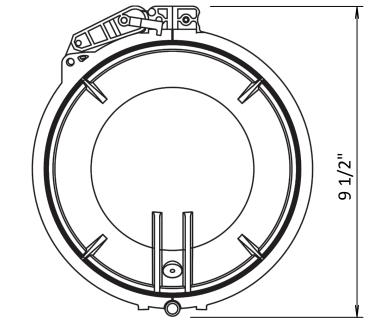




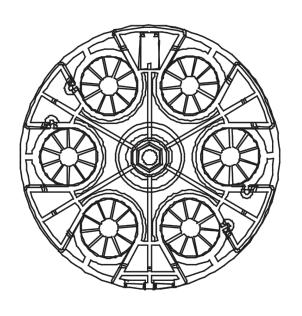
N	(
1.	
2.	
3.	
4.	

LIST NO.	
1	
2	
3	
4	
5	

DIAGRAM TYPICAL



FIBER OPTIC SPLICE CLOSURE NOT TO SCALE



FIBER OPTIC SPLICE CLOSURE GEL-BLOCK PROFILE NOT TO SCALE

EOFNEW							
EL REINS WY YK	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY]
	ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT						
	OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS						
	ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT						
STREEL STREET	AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						
103646	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
OFESSIONA		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	

OTES:

MAINTAIN 18" SWEEPS ON ALL CONDUITS.

DTS HUT FIBERS WILL SPLICE TO BLUE TUBE FIBER COLORS BLUE, ORANGE, GREEN AND BROWN.

SEE REFERENCE DOCUMENTS 2, 3, 4 AND 5 FOR PLACEMENT DETAILS.

FIBER OPTIC SPLICE CLOSURE ONLY IN SPECIFIC LOCATIONS. SEE PLAN AND PROFILES FOR DETAILS.

REFERENCE DOCUMENTS

DOCUMENT NAME	DOCUMENT NO.
FIBER OPTIC SPLICE CLOSURE	COMMSCOPE: MODEL NO. FOSC450-B6-6-24-1-B3V
TRANSITION VAULT FIBER OPTIC DETAIL	C-850
DTS HUT CONNECTION FIBER OPTIC SPLICE AND HANDHOLE	C-851
ENCLOSED VAULT w/FIBER OPTICS	C-852
OPEN VAULT w/FIBER OPTICS HAND HOLE	C-853

CHAMPLAIN HUDSON POWER EXPRESS	KIEWIT PROJECT NO.				
	21162				
	CHA PROJECT NO.				
066076					
FIBER OPTIC SPLICE DETAILS	DRAWING NO.				
C-855					
	0-000				
SCALE	DATE 06/08/2023				
AWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO. 0	SH.NO. OF				

B

A







32.34"

0

- CABLE TIE (AS PER FIELD REQUIREMENT) LIST NO. 2 3 4 FIBER OPTIC H-BRACKET (SEE REFERENCE DOCUMENT 1) — 1/2" LAG BOLT M $\left(\right)$ 24.1 - COPPER 4/0 GROUNDING CABLE \bigcirc - FIBER OPTIC CABLE

2

FIBER OPTIC H-FRAME BRACKET

29.51"

NOT TO SCALE

OFNEW								(
E OF NEW LOS								
EL REING WAR Y	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED							
	PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN							
	ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE							
ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY								
Sinceinnel a	THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.		_					
103646	Si Leine Descri non di me Alteranon.		0	06/08/2023	ISSUED FOR CONSTRUCTION SUBMISSION	DLM	ASM	
OFESSIONA		1	No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

 CLAMP TO VAULT WALL (USE AS NEEDED)

- TO ENCLOSED VAULT GROUNDING HALO

(SEE REFERENCE NOTE 5)

NOTES:

1. DO NOT KINK OR TWIST FIBER OPTIC CABLE.

2. IN VAULT PULL FROM DISTANT MANHOLE THEN COIL AND PLACE ON H-FRAME BRACKET.

3. H-FRAME IS ONLY USED IN ENCLOSED VAULTS. SEE REFERENCE DOCUMENTS 2 AND 3 FOR PLACEMENT DETAILS.

4. H-FRAME BRACKET DEPTH IS 4.50".

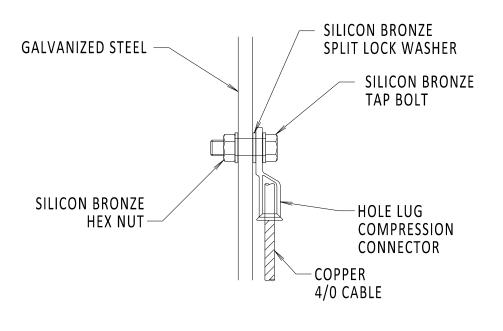
5. H-FRAME BRACKET TO BE GROUNDED TO THE GROUNDING HALO WITHIN AN ENCLOSED VAULT. SEE DRAWING C-803 FOR ENCLOSED VAULT GROUNDING DETAILS.

6. H-FRAME BRACKET IS MADE OF 12GA GALVANIZED STEEL.

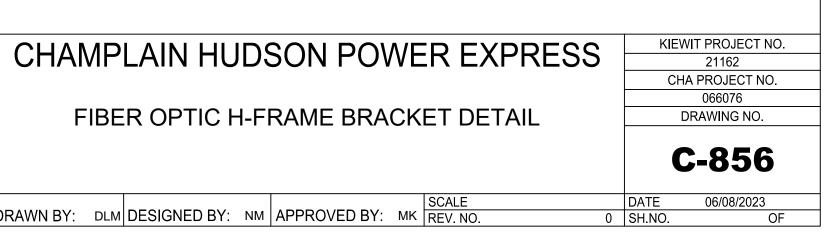
 1/2" LAG BOLT DOES NOT COME WITH H-BRACKET ASSEMBLY AND NEEDS TO BE PROCURED AS NEEDED. BOLT TO BE INSTALLED INTO VAULT WALL BY FIELD PERSONNEL.

REFERENCE DOCUMENTS

DOCUMENT NAME	DOCUMENT NO.
AMERICAN PRODUCT	H-FRAME POLE BRACKET MODEL NO: AM-3432-FSF-G-B x2
TYPICAL VAULT GROUNDING DETAILS	C-803
TRANSITION VAULT FIBER OPTIC DETAILS	C-850
ENCLOSED VAULT w/FIBER OPTICS	C-852



DETAIL A

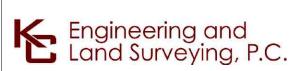


B

A

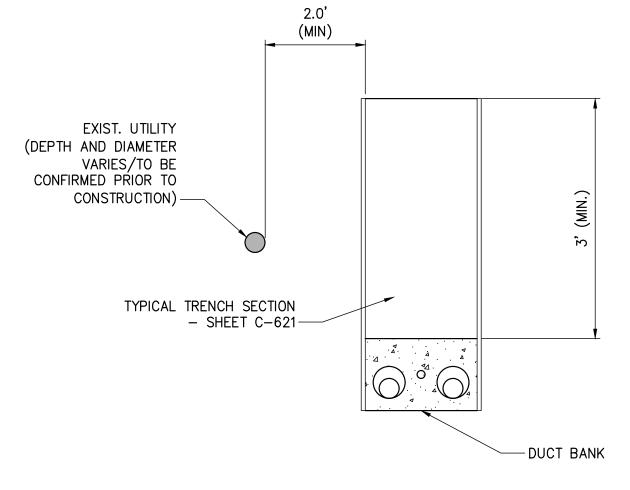


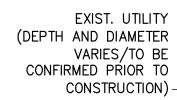


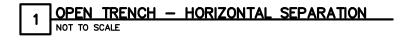


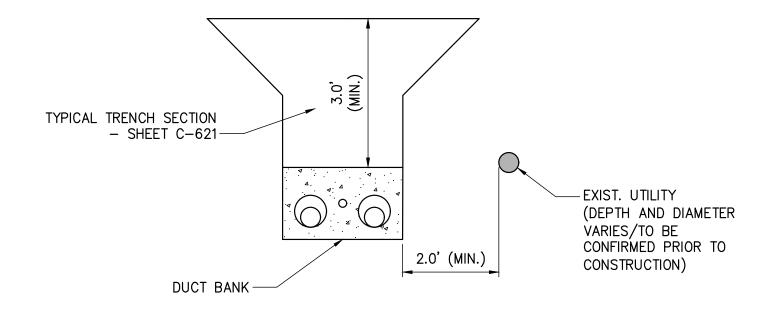
ĥ

2 TYPICAL DUCTBANK IN ROADWAY - HORIZONTAL SEPARATION



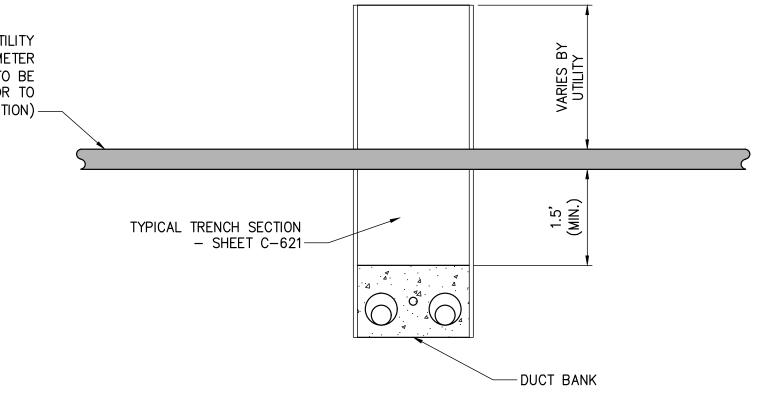






	IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT						(
DF NEW LOPY							(
] TI
	AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A						
103646	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	07/31/2023	ISSUED FOR CONSTRUCTION SUBMISSION		MW	
FESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

4 TYPICAL DUCTBANK IN ROADWAY - VERTICAL SEPARATION (UNDER) NOT TO SCALE



3 OPEN TRENCH - VERTICAL SEPARATION (UNDER) NOT TO SCALE

