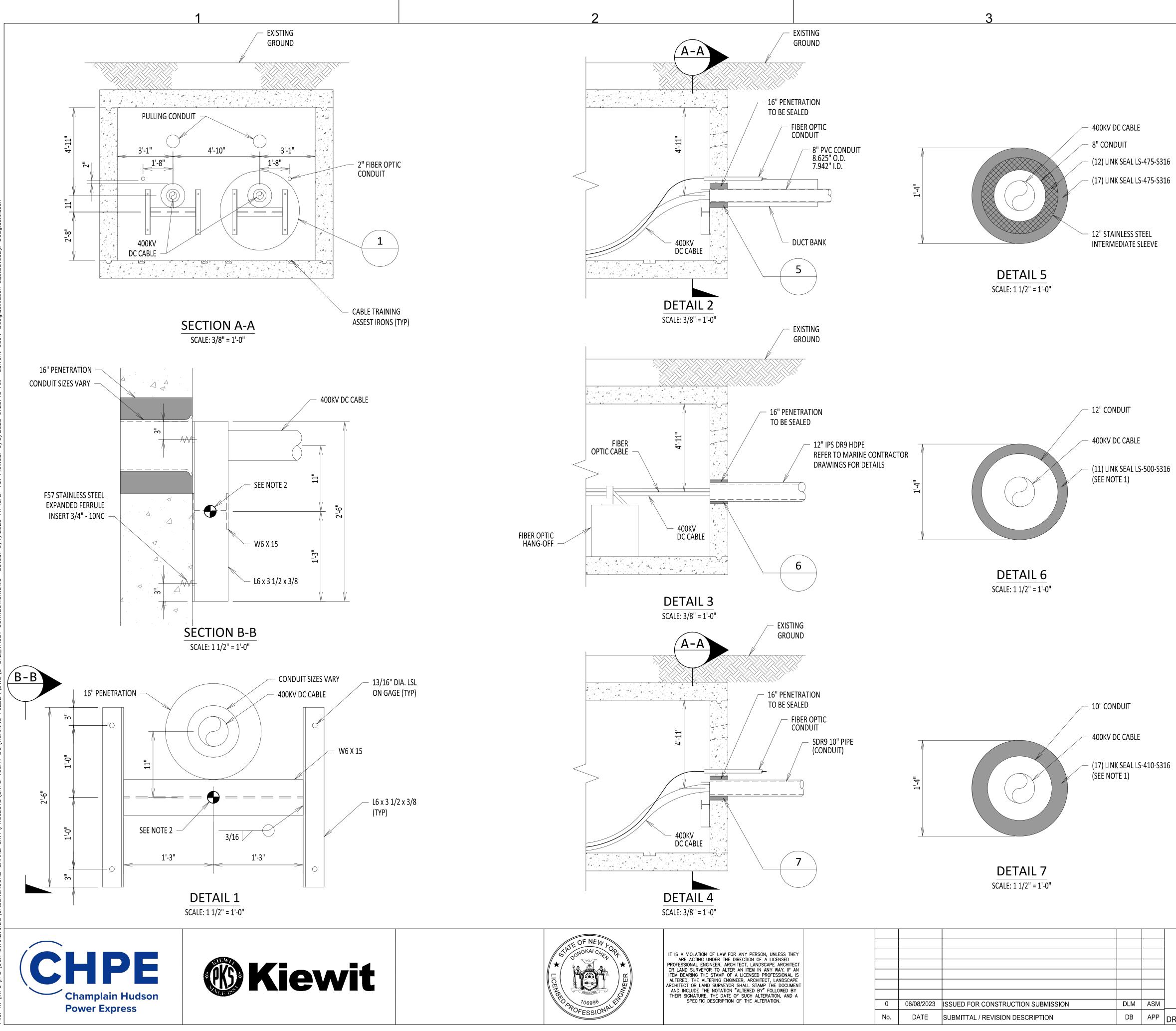


BILL OF MATERIALS									
ITEM DESCRIPTION	MANUFACTURER & CATALOG NO.	PROVIDER	INSTALLER						
LINK BOX	AS REQUIRED	NKT	KIEWIT						
INSULATED GROUND CABLE	AS REQUIRED	NKT	NKT						
BARE 4/0 GROUND CABLE	AS REQUIRED	KIEWIT	KIEWIT						
COMPRESSION C CONNECTOR	BURNDY YGHC29C29	KIEWIT	KIEWIT						
COMPRESSION CONNECTION TO GROUND ROD	BURNDY YGHR29C34	KIEWIT	KIEWIT						
3/4" X 10'-0" GROUND ROD	NVENT ERICO 613400	KIEWIT	KIEWIT						
3/4" STUD RING TERMINAL	BURNDY YAD28M20E34	KIEWIT	KIEWIT						

DRAWING NAME	DRAWING NO.
STRUCTURAL VAULT DRAWINGS	S-700
TYPICAL OPEN PIT SPLICE DETAILS	C-808
GROUNDING SPECIFICATIONS	260526.01

Α

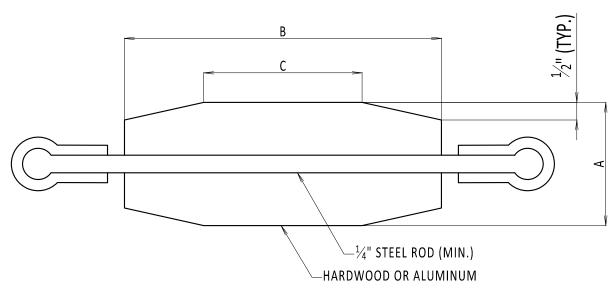


NOTE:

- 1. NUMBER OF LINK SEAL WILL VARY WHEN APPLYING TO 10" CONDUIT AND 12" CONDUIT.
- INDICATES LOCATION OF ATTACHMENT. END WALL CABLE CLAMP (BY OTHERS) TO BE ATTACHED CENTERED ON W6 WEB. CABLE AXIAL LOAD SHALL NOT EXCEED 9KIPS (ULTIMATE).

MANDREL SIZE DATA TABLE										
	CONDUIT INFORMATION MANDREL DIM.									
CONDUIT TYPE	SCH.	NOMINAL CONDUIT SIZE	MINIMUM CONDUIT RADIUS	CONDUIT O.D.	CONDUIT I.D.	A	В	С		
PVC	40	8"	8'-0"	8.625"	7.942"	7.481"	18.5"	10"		
PVC	40	8"	10'-0"	8.625"	7.942"	7.481"	20.5"	11"		
PVC	40	8"	12'-0"	8.625"	7.942"	7.481"	22.5"	12"		
HDPE	DR7	10"	8'-0"	10.75"	7.49"	7.481"	18.5"	10"		
HDPE	DR7	10"	10'-0"	10.75"	7.49"	7.481"	20.5"	11"		
HDPE	DR7	10"	12'-0"	10.75"	7.49"	7.481"	22.5"	12"		
HDPE	DR9	10"	8'-0"	10.75"	8.22"	7.481"	18.5"	10"		
HDPE	DR9	10"	10'-0"	10.75"	8.22"	7.481"	20.5"	11"		
HDPE	DR9	10"	12'-0"	10.75"	8.22"	7.481"	22.5"	12"		
FRE	-	8"	8'-0"	8.9"	8.4"	7.481"	18.5"	10"		
FRE	-	8"	10'-0"	8.9"	8.4"	7.481"	20.5"	11"		
FRE	-	8"	12'-0"	8.9"	8.4"	7.481"	22.5"	12"		

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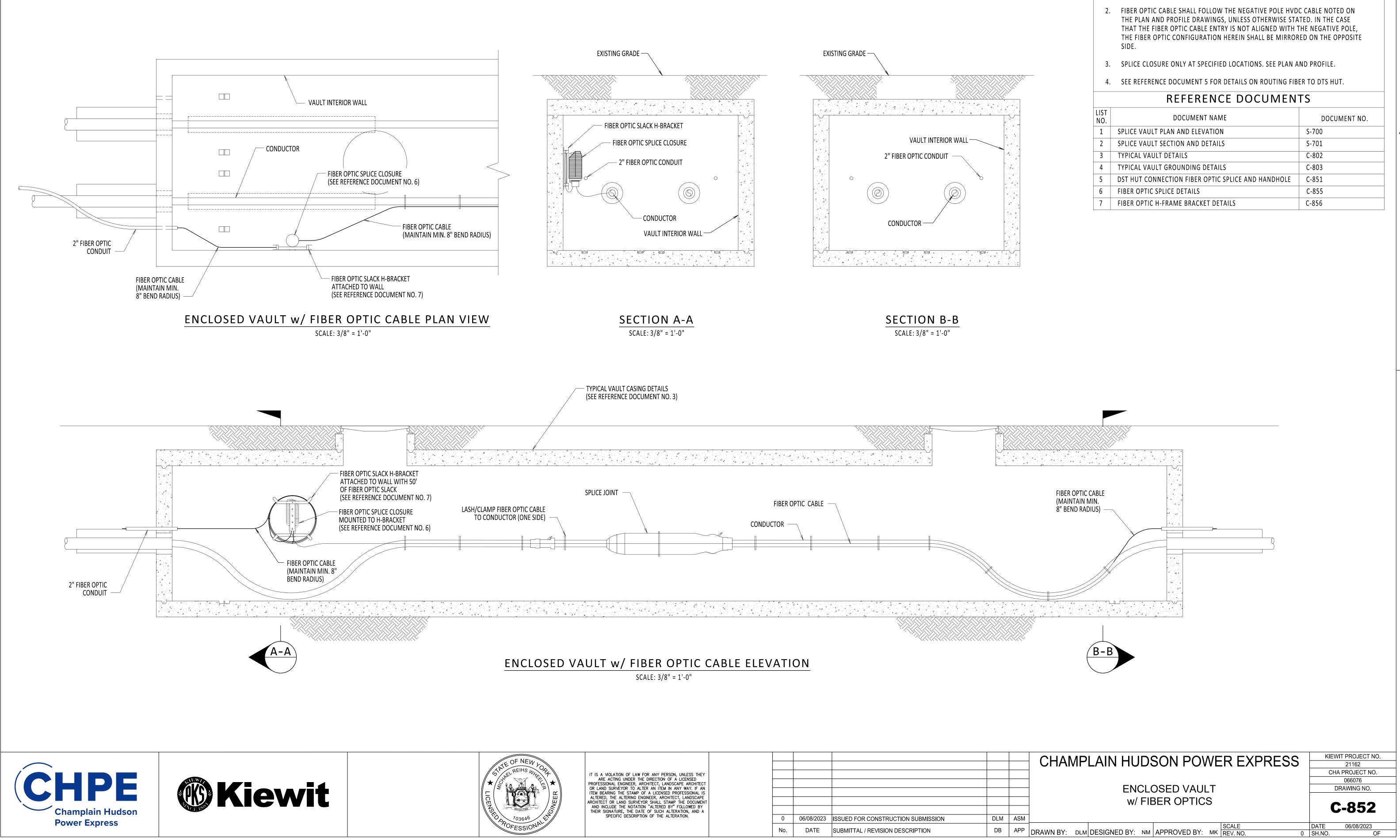
TYPICAL MANDREL DETAIL NOT TO SCALE

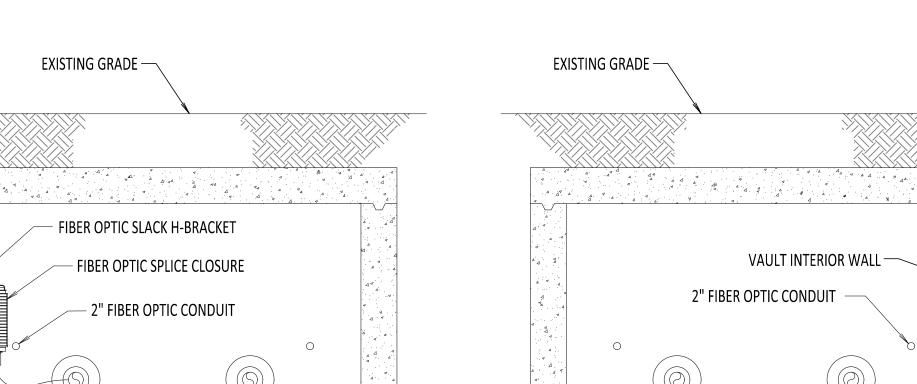
KIEWIT PROJECT NO. CHAMPLAIN HUDSON POWER EXPRESS 21162 CHA PROJECT NO. 066076 VAULT CONNECTION DRAWING NO. DETAILS **C-812**

DB APP DRAWN BY: DLM DESIGNED BY: SS APPROVED BY: ASM REV. NO.

NOT TO SCALE DATE 06/08/2023 0 SH NO

OF







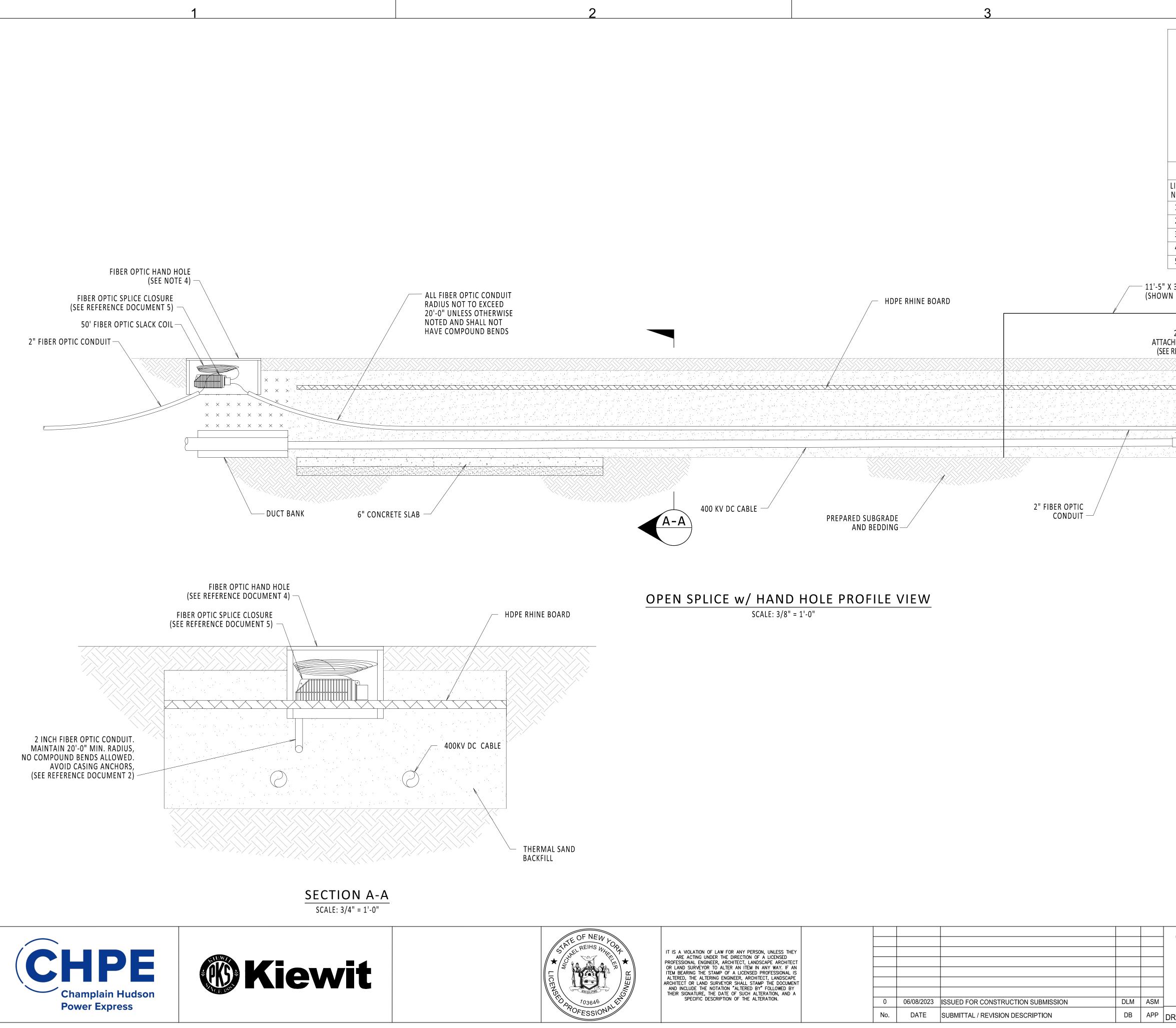
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	OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS						
ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED 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/

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- 1. NKT TO LASH/CLAMP FIBER OPTIC CABLE AND ATTACH SPLICE CLOSURES AS NEEDED.

	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				

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DFESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DRA

NOTES:

- 1. ADD HAND HOLE TO ALL OPEN SPLICE LOCATIONS.
- 2. FIBER OPTIC SPLICE CLOSURE ONLY AT SPECIFIC LOCATIONS. SEE PLAN AND PROFILE FOR DETAILS.
- 3. SEE REFERENCE DOCUMENTS 2 FOR HAND HOLE LOCATION DETAILS.
- 4. SEE REFERENCE DOCUMENT 4 FOR FIBER OPTIC HAND HOLE DETAILS.
- 5. MAINTAIN A MINIMUM FIBER OPTIC CABLE BEND RADIUS OF 8" UNLESS OTHERWISE STATED (WHEN BENDING THE CABLE).

REFERENCE DOCUMENTS

LIST NO.	DOCUMENT NAME	DOCUMENT NO.	
1	FRP FIBER COMMUNICATION HAND HOLE	S-771	
2	TYPICAL OPEN PIT SPLICE DETAILS	C-808	
3	DTS HUT CONNECTION FIBER OPTIC SPLICE AND HAND HOLE	C-851	
4	FIBER OPTIC HAND HOLE DETAILS	C-854	
5	FIBER OPTIC SPLICE DETAILS	C-855	

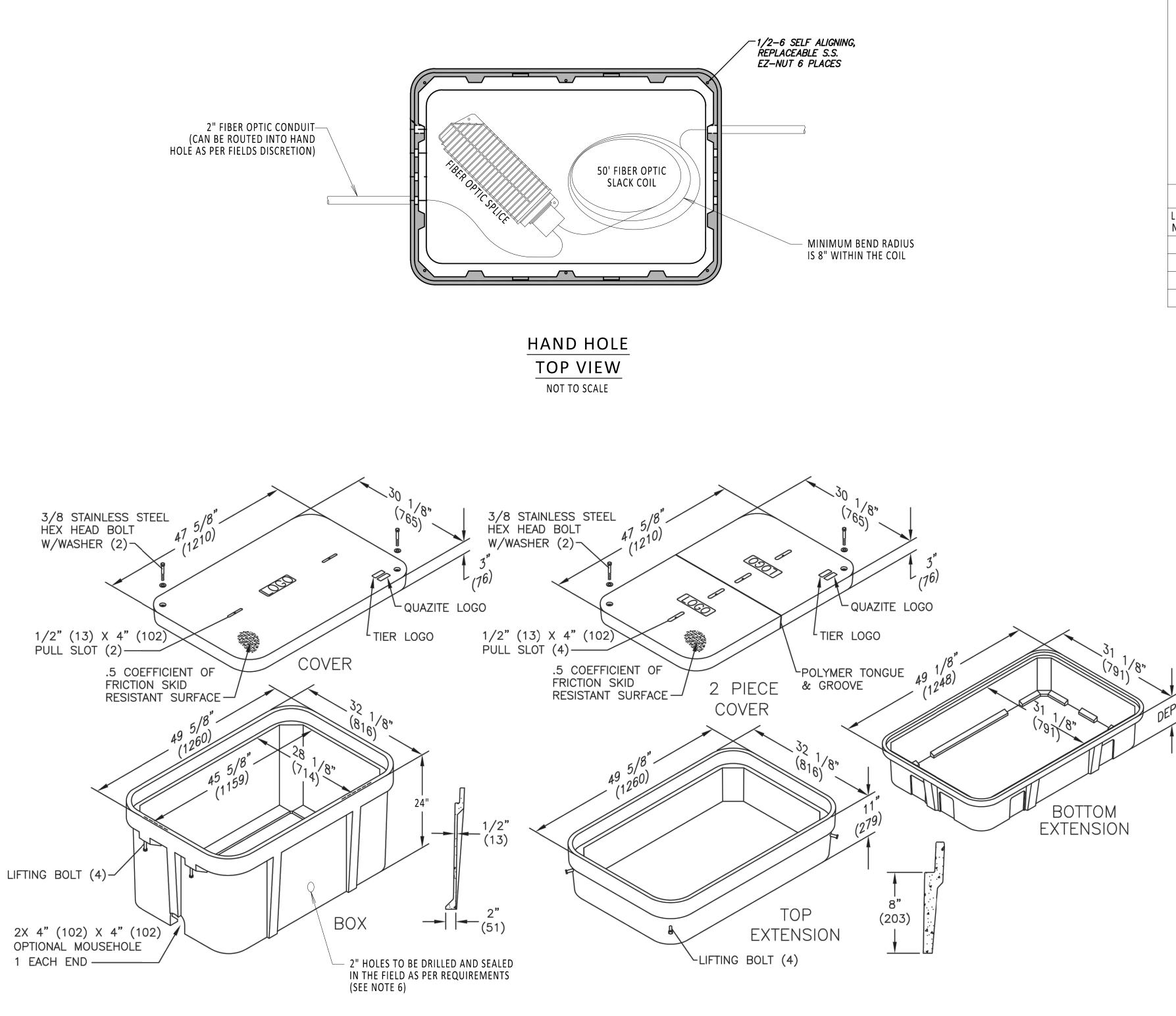
11'-5" X 34'-6" SPLICE CONTAINER (SHOWN FOR REFERENCE ONLY)

" FIBER OPTIC CONDUIT
ED TO CABLE AND SPLICE FERENCE DOCUMENT 2)
POWER CABLE SPLICE —/

CHAMPLAIN HUDSON POWER EXPRESS					KIEWIT PROJECT NO	
						21162
						PROJECT NO.
						066076
	OPEN SPL	.IC	E w/ FIBER OF	PTICS	DF	RAWING NO.
HAND HOLE					С	-853
				SCALE	DATE	06/08/2023
RAWN BY: ТЈМС	DESIGNED BY:	MK	APPROVED BY: XX	REV. NO. 0	SH.NO.	OF

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	ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE						
	ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY						-
S	THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						-
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OFESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	
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NOTES:

- 1. FIBER OPTIC COIL TO BE PLACED IN BOTTOM OF HAND HOLE. OBSERVE MINIMUM BEND RADIUS.
- 2. SPLICE ALL FIBERS STRAIGHT THROUGH.
- 3. FIBER OPTIC SPLICE CLOSURE ONLY AT SPECIFIC LOCATIONS. SEE PLAN AND PROFILE FOR DETAILS.
- 4. GROUNDING REQUIREMENTS TO BE DETERMINED.
- 5. HAND HOLE AT ALL OPEN SPLICE LOCATIONS. SEE REFERENCE DOCUMENTS 1 AND 2 FOR DETAILS ON HAND HOLE PLACEMENT IN OPEN PIT.
- 6. DRILLED HOLES ARE INTENDED TO ROUTE FIBER OPTIC CONDUIT AND CAN BE DRILLED AND SEALED ON ANY SIDE OF HAND HOLE AS REQUIRED BY THE FIELD.

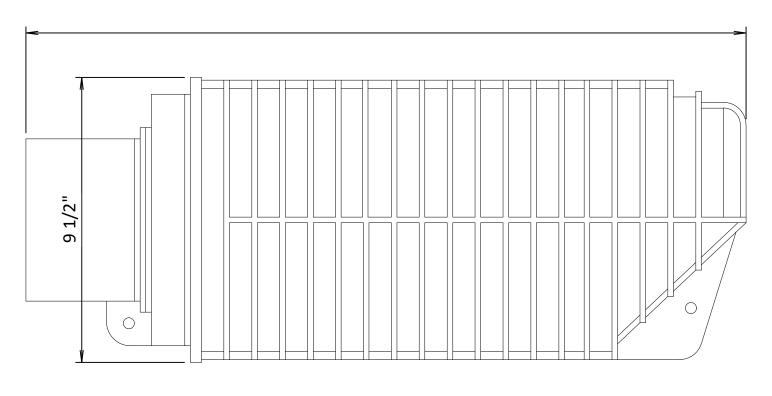
REFERENCE D	DOCUMENTS
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LIST NO.	DOCUMENT NAME	DOCUMENT NO.
1	TYPICAL OPEN PIT SPLICE DETAILS	C-808
2	OPEN VAULT w/FIBER OPTIC HAND HOLE	C-853
3	FIBER OPTIC SPLICE DETAILS	C-855
4	HUBBELL QUAZITE (HAND HOLE)	MODEL NO. PG3048BA24

(203) - 3/8" (10)

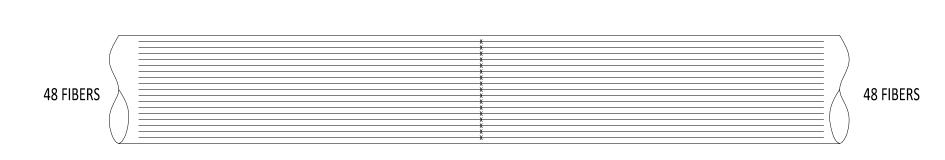
	KIEWIT PROJECT NO.
CHAMPLAIN HUDSON POWER EXPRESS	21162
	CHA PROJECT NO.
	066076
FIBER OPTIC HAND HOLE DETAILS	DRAWING NO.
	C-854
SCALE	DATE 06/08/2023
RAWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO. 0	SH.NO. OF

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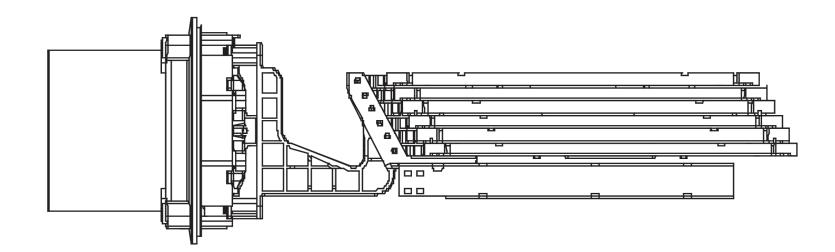
FIBER OPTIC SPLICE CLOSURE

NOT TO SCALE



FIBER OPTIC CABLE SPLICE

NOT TO SCALE

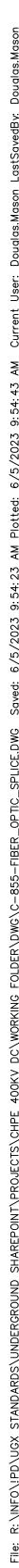


FIBER OPTIC SPLICE CLOSURE INSIDE DIAGRAM NOT TO SCALE





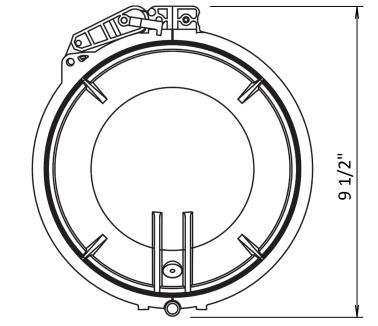




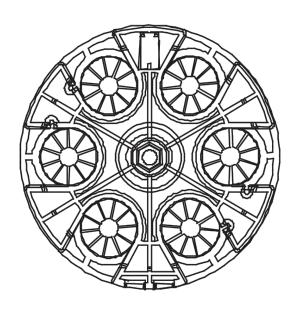
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DIAGRAM TYPICAL



FIBER OPTIC SPLICE CLOSURE NOT TO SCALE



FIBER OPTIC SPLICE CLOSURE GEL-BLOCK PROFILE NOT TO SCALE

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	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						
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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

	KIEWI	T PROJECT NO.
CHAMPLAIN HUDSON POWER EXPRESS		21162
	CHA	PROJECT NO.
		066076
FIBER OPTIC SPLICE DETAILS	DF	RAWING NO.
	С	-855
SCALE	DATE	06/08/2023
RAWN BY: DLM DESIGNED BY: NM APPROVED BY: MK REV. NO. 0	SH.NO.	OF

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32.34"

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- CABLE TIE (AS PER FIELD REQUIREMENT) LIST NO. 1 2 3 4 FIBER OPTIC H-BRACKET (SEE REFERENCE DOCUMENT 1) — 1/2" LAG BOLT M $\left(\right)$ $\left(\right)$ 34.1 - COPPER 4/0 GROUNDING CABLE \bigcirc - FIBER OPTIC CABLE

2

FIBER OPTIC H-FRAME BRACKET

29.51"

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- 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.

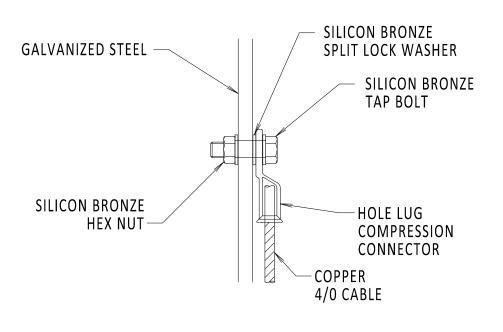
6. H-FRAME BRACKET IS MADE OF 12GA GALVANIZED STEEL.

 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.

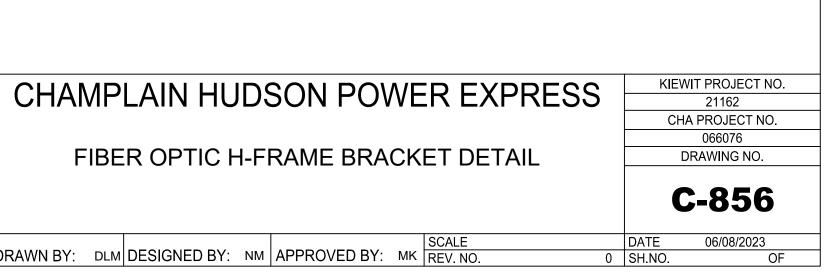
REFERENCE DOCUMENTS

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

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DETAIL A



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DRAWING NOTES

- 1. FOR THE APPROPRIATE TRENCH SECTION AND RELATED ELEMENTS REFER TO C-621, THIS DRAWING SHEET IS ONLY APPLICABLE FOR TYPICAL SEPARATION TO EXISTING UTILITIES
- 2. CERTAIN CO-LOCATED INFRASTRUCTURE OWNERS HAVE CRITERIA THAT DIFFERS FROM THIS TYPICAL SEPARATION DETAILS, CONSULT C-902 FOR APPLICABILITY
- 3. WHERE NO DUCT BANK IS PRESENT THE SEPARATION DISTANCE SHOULD BE FROM THE CLOSER EDGE OF THE EXISTING UTILITY, TO THE CLOSEST EDGE OF THE CONDUIT

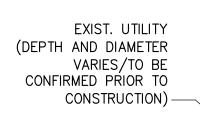
NATIONAL GRID NOTES

- 1. THE CONTRACTOR SHALL OBSERVE AND ABIDE BY THE APPLICABLE POWER LINE SAFETY REGULATIONS 29 C.F.R. § 1926.1406 - 1926.1411.
- 2. THE CONTRACTOR SHALL TRAIN EMPLOYEES WORKING AS DEDICATED SPOTTERS IN ACCORDANCE WITH 29 C.F.R. § 1926.1408(G)(2).
- 3. CONSTRUCTION UNDER TRANSMISSION LINES REQUIRES A DEDICATED SPOTTER, AS APPLICABLE.
- 4. THE CONTRACTOR SHALL SUBMIT QUALIFIED INDIVIDUALS' RESUMES TO NATIONAL GRID.



DUCT BANK (WHERE APPLICABLE, SEE C-621

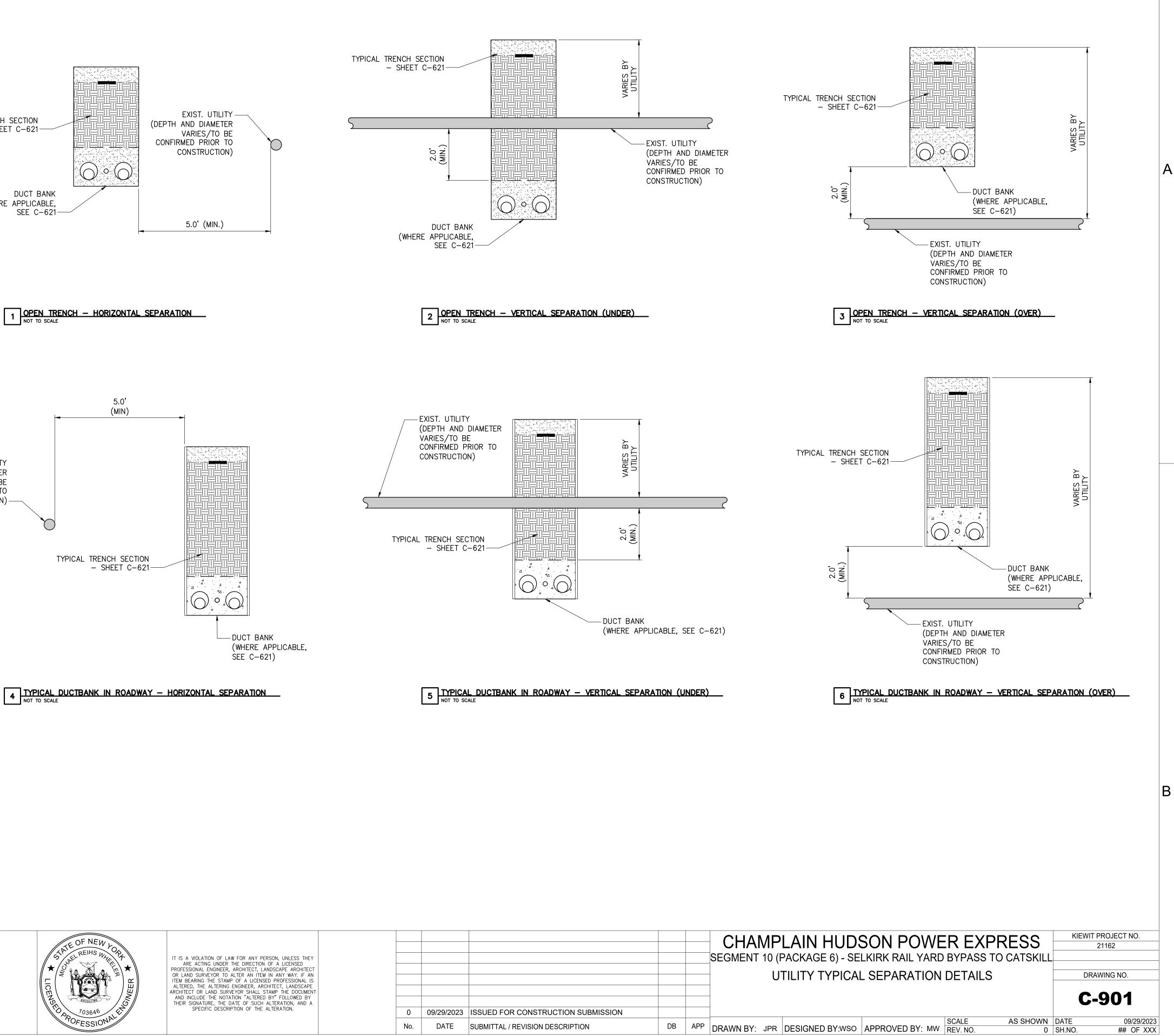












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703646	SPECIFIC DESCRIPTION OF THE ALTERATION.	0	09/29/2023	ISSUED FOR CONSTRUCTION SUBMISSION			
ESSIONAL		No.	DATE	SUBMITTAL / REVISION DESCRIPTION	DB	APP	DR

NATIONAL GRID NOTES

- 1. THE CONTRACTOR SHALL OBSERVE AND ABIDE BY THE APPLICABLE POWER LINE SAFETY REGULATIONS 29 C.F.R. § 1926.1406 - 1926.1411.
- 2. THE CONTRACTOR SHALL TRAIN EMPLOYEES WORKING AS DEDICATED SPOTTERS IN ACCORDANCE WITH 29 C.F.R. § 1926.1408(G)(2).
- 3. CONSTRUCTION UNDER ELECTRIC TRANSMISSION LINES REQUIRES A DEDICATED SPOTTER, AS APPLICABLE.
- 4. THE CONTRACTOR SHALL SUBMIT QUALIFIED INDIVIDUALS' RESUMES TO NATIONAL GRID.

ENTERPRISE PRODUCTS NOTES

- 1. WARNING HIGH PRESSURE PIPELINE EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT WRITTEN PERMISSION FROM ENTERPRISE PRODUCTS COMPANY
- 2. ENTERPRISE'S 24 HR EMERGENCY NUMBER IS (888)-883-6308

IROQUOIS GAS TRANSMISSION NOTES

- 1. NO ACTIVITY WHATSOEVER MAY BE PERFORMED ON IROQUOIS' RIGHT-OF-WAY OR EASEMENT WITHOUT AN IROQUOIS REPRESENTATIVE ON SITE. AN APPOINTMENT WITH A REPRESENTATIVE CAN BE MADE BY CONTACTING THE NEAREST IROQUOIS OFFICE 48 HOURS IN ADVANCE. FOR ADDITIONAL INFORMATION, PLEASE CALL (800)253-5152.
- 2. CHPE CONDUITS WILL CROSS BELOW IROQUOIS' PIPELINE AND WILL BE COVERED BY A MINIMUM OF 3" CONCRETE COVERING ACROSS THE EXTENT OF THE ENTIRE OF IROQUOIS' EASEMENT
- 3. IROQUOIS' 24HR EMERGENCY NUMBER IS (800) 888-3982

OWNER	UTILITY TYPE
	GAS DISTRIBUTIOI SERVICE CONNECTI
CENTRAL HUDSON	GAS DISTRIBUTIO
GAS & ELECTRIC	GAS TRANSMISSI
	ELECTRIC TRANSMISSION
ENTERPRISE PRODUCTS	GAS TRANSMISSI (PROPANE)
IROQUOIS	GAS TRANSMISSI
ALL OTHERS / NOT SPECIFIED	



SEE DETAILS ON C-621 & C-801 FOR MARKING TAPE AND ABOVE GROUND MARKINGS

TYPICAL TRENCH SECTION – SHEET C-621

> DUCT BANK (MIN. 2500 PSI RED COLORED CONCRETE, 6" MIN. ENCASEMENT) -

7 ENTERPRISE INTERACTION DETAIL





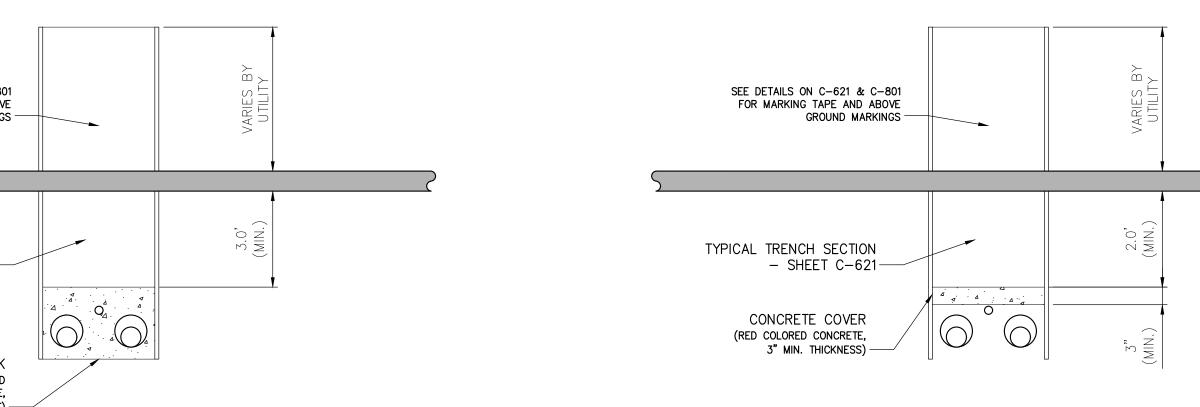




	SPECIFIC REG	QUIREMENTS B	Y CI-OWNER
PE	HORIZONTAL SEPARATION (FEET)	VER TICAL SEPARA TION (FEET)	NOTES
TION CTION	5′-0″	3'-0"	No service connections have been identified to date in the current plan set
ITION	5'-0"	5'-0"	
SSION	10'-0"	5'-0"	
ON	56'-0"	N/A	CHG&E Nominal clearance is 56' from Poles or overhead lines at \pounds to CHPE trench \pounds
SSION -)	5'-0"	3'-0"	CHPE conduits shall be installed below Enterprise' pipelines with a minimum separation of 36". If the installation method is open cut trench it shall be encased in a 6" envelope of red colored 2500 PSI concrete for the entirety of Enterprise's right—of—way
SSION	5'-0"	2'-0"	CHPE conduits shall be installed below Iroquois' pipelines with a minimum separation of 24". A minimum of 3" of red colored concrete should cover the entirety of Iroquois' easement
	5'-0"	2'-0"	See C-901

Station Starting Point for Parallel and Crossing Point for Perpendicular)	Station (Ending Point for Parallel)	Drawing No. reference	Owner	Utility	Interaction	Description	Quality Level (ASCE 38-22)	
60081+91		C-106	Enterprise Products	UG Utility (Gas Transmission)	Perpendicular	LPG gas line, crosses the RR tracks Trench crossing	в	
61314+00	61321+70	C-121 C-122	CHG&E	UG Utility (Gas Transmission)	Parallel	AH Gas line and CHPE alignment run parallel	в	
61317+40		C-122	CHG&E	UG Utility (Gas Transmission)	Perpendicular	AH gas line Trench crossing	в	
62708+85		C-148	CHG&E	UG Utility (Gas Distribution)	Perpendicular	(2) Gas distribution Main Trench crossings	в	
62715+95		C-148	CHG&E	UG Utility (Gas Transmission)	Perpendicular	AH gas line Trench crossing	в	
63981+60		C-166	CHG&E	UG Utility (Gas Transmission)	Perpendicular	AH gas line Trench crossing	в	
63986+55		C-166	Iroquois	UG Utility (Gas Transmission)	Perpendicular	24" Gas Main Crosses RR Tracks Trench crossing	D	





8 IROQUOIS INTERACTION DETAIL

E OF NEW LOPA ALL REIHS WARKEN	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 SPECIFIC DESCRIPTION OF THE ALTERATION.					APP DRAWN BY: JPR DESIGNED BY: APPROVED BY: MW SCALE AS SHOWN D				KIEWIT PRO 211 DRAWIN	62
		 09/29/2023 . DATE	ISSUED FOR CONSTRUCTION SUBMISSION SUBMITTAL / REVISION DESCRIPTION	JPR DB	4.55					C-9 DATE SH.NO.	09/29/2023 OF XXX